LEGEND

M, MD	MOTORIZED DAMPER
ARCH	ARCHITECT
UP	DUCT UP
DN	DUCT DOWN
FCU	FAN COIL UNIT
LD	LINEAR DIFFUSER
COD	CABLE OPERATED DAMPER
CFM	CUBIC FEET PER MINUTE, AIR
R/A	RETURN AIR
S/A	SUPPLY AIR
OA	OUTSIDE AIR
EXH	EXHAUST
EG	EXHAUST GRILLE
(E)	EXISTING
(N)	NEW
(CD)	CEILING DIFFUSER
TYP.	TYPICAL
WMS	WIRE MESH SCREEN
ø	DIAMETER OF ROUND DUCT
RTU	ROOF-TOP UNIT
ERV	ENERGY RECOVERY VENTILATOR
HWC	HOT WATER COIL
MANU.	MANUFACTURER
TEMP	TEMPERATURE
MCA	MINIMUM CIRCUIT AMPACITY
RFS	RECOMMENDED FUSE SIZE
FLA	FULL LOAD AMPERES
MOCP	MAXIMUM OVERCURRENT PROTECTION
QTY	QUANTITY
EF	EXHAUST FAN
ESP	EXTERNAL STATIC PRESSURE
EWT	ENTERING WATER TEMPERATURE
LWT	LEAVING WATER TEMPERATURE
EAT	ENTERING AIR TEMPERATURE
LAT	LEAVING AIR TEMPERATURE
	DEMOLISH HIGHLIGHTED DUCTWORK AND EQUIPMENT
FD/AD	FIRE DAMPER WITH ACCESS DOOR
FSD/AD	FIRE/SMOKE DAMPER WITH ACCESS DOOR
HP	HEAT PUMP
T	THERMOSTAT
SD	SMOKE DETECTOR
DSD	DUCT SMOKE DETECTOR
CO2	CARBON DIOXIDE SENSOR
#X#	DUCT DIMENSIONS (CLEAN INSIDE DIM.)
RAG	RETURN AIR GRILLE
— · — · —	NEW CONDENSATE PIPING
— — —	NEW REFRIGERANT PIPING
— - - - —	HOT WATER SUPPLY PIPING
— - - - —	HOT WATER RETURN PIPING
	VOLUME DAMPER ACROSS DUCTWORK
	POINT OF CONNECTION, NEW WORK TO EXISTING
A A	SECTION LINE

PROJECT LOCATION



EXISTING SITE PHOTO

SCALE N.T.S.

PROJECT NOTES:

1. ALL BIDDERS SHALL VISIT PROJECT SITE TO THOROUGHLY FAMILIARIZE THEMSELVES WITH EXISTING CONDITIONS. CLAIMS FOR EXTRA PAYMENTS FOR WORK, WHICH COULD HAVE BEEN IDENTIFIED VIA CAREFUL SITE INSPECTION, WILL NOT BE ACKNOWLEDGED.

2. PRIOR TO COMMENCEMENT OF WORK, CONTRACTOR SHALL PREPARE EQUIPMENT SUBMITTALS PER SPECIFICATION AND SUBMIT TO DESIGN ENGINEER FOR REVIEW/APPROVAL.

3. UPON COMPLETION OF WORK, CONTRACTOR SHALL SUBMIT AS-BUILTS DRAWINGS IN ACCORDANCE WITH SPECIFICATIONS.

4. PRIOR TO CLOSEOUT, CONTRACTOR SHALL SUBMIT OPERATION AND MAINTENANCE MANUAL TO ENGINEER FOR APPROVAL. FOLLOWING APPROVAL, CONTRACTOR SHALL DELIVER (1) HARD COPY AND (1) DIGITAL COPY ON THUMB DRIVE TO OWNER.

5. IN ADDITION TO EQUIPMENT SUBMITTALS CONTRACTOR SHALL ISSUE 3/8" SCALE SHEET METAL AND PIPING SHOP DRAWINGS TO ENGINEER FOR REVIEW AND APPROVAL PRIOR TO COMMENCEMENT OF WORK.

6. CONTRACTOR SHALL NOTE THAT EXISTING BAS HARDWARE IS MANUFACTURED BY ANDOVER. CONTRACTOR SHALL PROVIDE ALLOWANCE FOR HVAC CONTROLS AS INDICATED IN FRONT END SPECIFICATIONS.

ATC CONTRACTOR SHALL FURNISH AND INSTALL ALL HARDWARE AND WIRING REQUIRED FOR CONTROL AND MONITORING OF NEW HVAC EQUIPMENT. ATC CONTRACTOR SHALL DO ALL PROGRAMMING, BUILD ALL GRAPHICS FOR NEW EQUIPMENT AND CREATE THERMAL FLOOR PLANS FOR ALL TEMPERATURE ZONES. ESTABLISH OCCUPANCY SCHEDULES WITH OWNER AND ROUTING OF ALARMS.

REFER TO CONTROLS DIAGRAM FOR ADDITIONAL INFORMATION.

ALTERNATE:

1. CONTRACTOR SHALL ENGAGE A LICENSED DUCT CLEANING CONTRACTOR TO PROFESSIONALLY CLEAN ALL EXISTING SUPPLY AND RETURN AIR DUCTWORK IN PROJECT AREA. PROVIDE ALL NECESSARY ACCESS POINTS INTO THE DUCT SYSTEM TO SUPPORT THIS WORK. UPON COMPLETION OF THE WORK, PROVIDE A LETTER TO THE OWNER AND INCLUDE ALL ACCESS DOORS IN AS-BUILT DRAWINGS.

GENERAL NOTES:

1. REFER TO WRITTEN (BOOK) SPECIFICATIONS FOR ADDITIONAL INFORMATION.
2. CONTRACTOR SHALL FIRESTOP ALL PIPING PENETRATIONS THRU CORRIDOR AND FIRE-RATED WALLS.
3. FURNISH AND INSTALL NEW CO2 SENSORS TO EMPLOY DEMAND CONTROL VENTILATION SEQUENCE WHERE INDICATED ON PLANS. SEE SEQUENCE OF OPERATION FOR ADDITIONAL INFORMATION.
4. CONTRACTOR SHALL FURNISH AND INSTALL FUSIBLE LINK TYPE FIRE DAMPERS (WITH DUCT ACCESS DOORS) AT DUCT PENETRATIONS THRU RATED WALLS, CEILINGS AND FLOORS. REFER TO ARCHITECTURAL PLANS IF RATED PARTITIONS ARE NOT NOTED IN MECHANICAL DRAWINGS.
5. ALL PIPING AND DUCTWORK SHALL BE INSULATED IN ACCORDANCE WITH NEW YORK STATE ENERGY CONSERVATION CODE.

PROJECT DESCRIPTION

1. THE INTENT OF THIS PROJECT IS TO PROVIDE A NEW MECHANICAL EQUIPMENT, PIPING, DUCTWORK AND CONTROLS TO SERVE THE NEW CAFETORIUM ADDITION. THIS INCLUDES, BUT IS NOT LIMITED TO, THE FOLLOWING WORK:

GENERAL:

- DEMO OF EXISTING EQUIPMENT & DUCTWORK AS SHOWN ON PLANS.
- NEW PACKAGED & SPLIT MECHANICAL EQUIPMENT AND RIGGING ONTO ROOF.
- NEW VAV BOXES SHOWN ON PLANS.
- NEW REFRIGERANT AND CONDENSATE PIPING.
- NEW GREASE FAN AND MAKEUP AIR UNIT SERVING KITCHEN.
- NEW CUSTOM DUCT SILENCERS (BY BY VIBRO ACOUSTICS OR EQUAL) FOR RTU-1.
- NEW VIBRATION ISOLATION CURB FOR RTU-1.
- NEW GALVANIZED SHEET METAL DUCTWORK AND AIR OUTLETS.
- NEW DUCTWORK & PIPING INSULATION.
- LABELING OF ALL DUCTWORK, PIPING & EQUIPMENT.
- AIR AND WATER TESTING AND BALANCING.
- NEW WEB-BASED DDC HVAC CONTROL SYSTEM FOR ALL NEW EQUIPMENT. NEW VRF EQUIPMENT SHALL BE EQUIPPED WITH FACTORY CONTROLS AND BACnet INTERFACE SUCH THAT ALL POINTS AND ALARMS WILL PASS THRU TO NEW BMS.
- EQUIPMENT STARTUP AND TESTING BY FACTORY AUTHORIZED REPRESENTATIVES.
- CLOSEOUT PACKAGE INCLUDING CUT SHEETS, AS BUILT DRAWINGS AND WARRANTY INFORMATION.
- OWNER TRAINING ON NEW EQUIPMENT AND CONTROLS (MIN. 2HRS EACH).

VRF NOTES:

1. ALL PIPING SHALL BE INSULATED IN ACCORDANCE WITH STATE ENERGY CODE.
2. CONTRACTOR SHALL CONFIRM ALL REFRIGERANT (DX) PIPE SIZES AND LENGTHS WITH MANUFACTURER. PROVIDE COORDINATED PIPING SHOP DRAWINGS TO SHOW DX PIPING RUNOUTS AND SIZES FOR ALL EQUIPMENT.
3. CONTRACTOR SHALL FURNISH AND INSTALL BRAZED COPPER REFRIGERANT PIPING AS INDICATED ON M100.2, M101.1, M103, AND M-ALT SHEETS, INCLUDING PIPING INTERCONNECTS BETWEEN HEAT PUMP, BRANCH BOXES, AND CEILING CASSETTE & FAN COIL UNITS. PIPING SHALL BE INSULATED PER MANUFACTURER'S INSTRUCTIONS. SIZING SHALL BE AS SHOWN ON PIPING DIAGRAM, ON M202 SHEET.
4. VRF SYSTEM PIPING JOINTS SHALL BE LOCATED ABOVE THE CLG.
5. CONTRACTOR SHALL ROUTE NEW CONDENSATE PIPING FROM FACTORY PUMP AT FCU TO NEW INDIRECT CONNECTION TO SANITARY PIPING. COORDINATE WITH PLUMBING SUB IF NECESSARY TO MAKE INDIRECT CONNECTION AT LOCATION SHOWN ON PLAN.
6. FURNISH AND INSTALL NEW 1" COPPER CONDENSATE PIPING AS SHOWN, GRAVITY PITCHED TO SANITARY CONNECTION AS LOCATED ON THE PLANS. PROVIDE PIPING FROM CONDENSATE PUMP DISCHARGE (NOT SHOWN ON PLANS) OF ALL CCU/FCU's TO SANITARY CONNECTION.

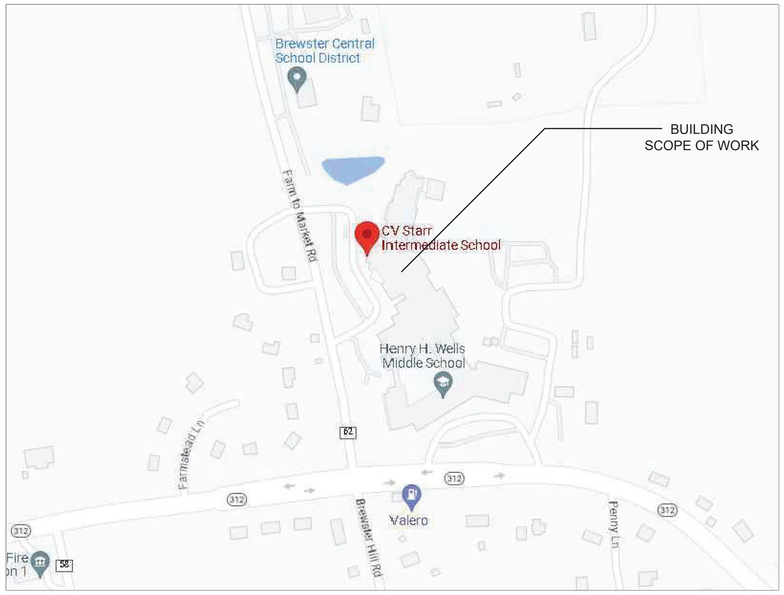
DRAWING SCHEDULE

DRAWING NUMBER	DRAWING DESCRIPTION
CVS M001	MECHANICAL NOTES AND LEGEND
CVS M002	MECHANICAL BASE-BID VENTILATION TABLES
CVS M100.1	GROUND FLOOR MECHANICAL DUCTWORK PLAN
CVS M100.2	GROUND FLOOR MECHANICAL PIPING PLAN
CVS M101.1	FIRST FLOOR MECHANICAL DEMO & NEW REFLECTED CEILING PLANS
CVS M102.1	FIRST FLOOR MECHANICAL DEMO & NEW REFLECTED CEILING DUCTWORK PLANS
CVS M102.2	FIRST FLOOR MECHANICAL NEW REFLECTED CEILING PIPING PLAN
CVS M1-ALT.	MECHANICAL ALTERNATE REFLECTED CEILING PLANS
CVS M2-ALT.	MECHANICAL ALTERNATE PIPING AND WIRING DIAGRAMS
CVS M103	ROOF MECHANICAL PLANS
CVS M200	MECHANICAL DETAILS
CVS M201	MECHANICAL DETAILS
CVS M202	MECHANICAL DETAILS
CVS M203	MECHANICAL PIPING & CONTROLS DIAGRAM
CVS M300	MECHANICAL SCHEDULES
CVS M301	MECHANICAL SCHEDULES

MECHANICAL GENERAL NOTES:

1. PROVIDE NECESSARY LOW VOLTAGE WIRING, POWER SUPPLIES TO CONTROLLER, AND TRANSFORMERS TO SUPPLY POWER TO THE REMOTE SENSORS AS REQUIRED BY MANUFACTURER. THIS WIRING SHLL BE RUN WITHIN CMU BLOCK CELLS LOCATED IN THE W/ OWNER PRIOR TO INSTALLATION.
2. PROVIDE NECESSARY ACCESS & CLEARANCES AROUND ALL EQUIPMENT ACCORDING TO MANUFACTURER'S RECOMMENDATION, SEE MECHANICAL DETAIL DRAWINGS (M-200'S) FOR ADDITIONAL INFO.
3. ALL DUCTWORK PENETRATING FIRE PARTITIONS THAT ARE MORE THAN 1-HOUR RATED SHALL HAVE FIRE DAMPERS. AIR TRANSFER DUCTWORK PENETRATING 1-HOUR AND ABOVE RATED PARTITIONS SHALL HAVE FIRE DAMPERS. ALL DUCTWORK PENETRATING FIRE PARTITIONS THAT ARE 2-HOUR RATED OR MORE SHALL HAVE FIRE/SMOKE DAMPERS. PROVIDE ACCESS DOORS FOR ALL FIRE DAMPERS IN THE DUCT AND FINISHED BUILDING SURFACES (I.E. INACCESSIBLE CEILINGS, SHAFT WALLS, ETC.) FOR DAMPER MAINTENANCE AND INSPECTION.
4. ALL DUCTWORK & PIPING SHALL BE TIGHT TO STRUCTURE UNLESS OTHERWISE NOTED.
5. ALL CONCEALED NEW DUCTWORK SHALL BE PROVIDED W/ FIBERGLASS INSULATION WRAP (R-6 OR EQUAL).
6. ALL BRANCH DUCTS SHALL BE EQUIPPED WITH MANUAL VOLUME DAMPERS WHETHER INDICATED ON PLANS OR NOT. DAMPERS LOCATED ABOVE INACCESSIBLE CEILINGS SHALL BE REMOTE CABLE OPERATED TYPE.
7. ALL DUCT DIMENSIONS ARE INSIDE CLEAR DIMENSIONS.
8. ALL DUCTWORK WITHIN 15FT OF UNITS SHALL BE ACOUSTICALLY LINED.
9. CONTRACTOR SHALL REINFORCE ALL DUCTWORK SIZED AT A RATIO OF MORE THAN 3 TO 1 FOR WIDTH TO HEIGHT; PREVENTING "DUCTWALL" DEFLECTION DURING SYSTEM START-UP.
10. ALL 90° SHARP EDGE ELBOWS IN DUCTS SHALL HAVE TURNING VANES.
11. COORDINATE ALL THERMOSTAT LOCATIONS WITH ARCHITECT PRIOR TO ROUGHING WIRE. LOCATE SENSORS AND THERMOSTATS SUCH THAT THEY ARE ACCESSIBLE, PROTECTED, AND IN AN AREA OF UNOBSTRUCTED AIR CIRCULATION 4 FT. ABOVE FINISHED FLOOR. PROVIDE EACH DEVICE WITH ACCESSORIES NECESSARY TO MEET THE NEEDS OF THE SYSTEM.
12. THE CONTRACTOR IS RESPONSIBLE FOR ALL WORK, MATERIALS, AND LABOR TO SATISFY COMPLETE WORKING MECHANICAL SYSTEM WHETHER SPECIFIED OR IMPLIED.
13. VERIFY EXACT LOCATION OF ALL EQUIPMENT IN FIELD AND COORDINATE WITH ALL TRADES.
14. COORDINATE ALL PIPING WITH EXISTING STRUCTURAL CONDITIONS AS NEEDED FOR PROPER INSTALLATION.
15. ALL VAV BOXES TO BE EQUIPPED WITH HOT WATER REHEAT COILS.

C.V. STARR INTERMEDIATE SCHOOL
PACKAGE 2
20 FARM TO MARKET ROAD BREWSTER, NY 10509



PROPOSED SITE KEY PLAN

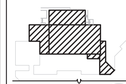
SCALE N.T.S.

ABBREVIATIONS

(NOTE: ALL ABBREVIATIONS MAY NOT APPEAR ON DRAWINGS)

A	Amps, Ampere	EC	Electrical Contractor	LAT	Latent (BTU)	RCP	Reflected Ceiling Plan
ABV	Above	EDH	Electric Duct Heater	LB	Pounds (Weight)	REC	Receptacle
AC	Air Conditioner	EER	Energy Efficiency Ratio	LIN FT	Linear Foot	REF	Reference
ACCU	Air Cooled Condensing Unit	EL	Elevation	LTG	Lighting	REFR	Refrigerator
AFF	Above Finish Floor	ELEC	Electrical	LWT	Leaving Water Temperature	REQ	Required
AFG	Above Finish Grade	ELEV	Elevator	mA	Mili Amps	RH	Relative Humidity
AHU	Air Handling Unit	EMER	Emergency	MAX	Maximum	RLA	Running Load Amps
AMB	Ambient	EQUIP	Equipment	MBH	Thousand British Thermal Unit Per Hour	RM	Room
AUX	Auxiliary, Auxiliaries	ER	Existing to be Removed	MCB	Main Circuit Breaker	RPM	RPM
AV	Audio Visual	ERV	Energy Recovery Ventilator	MCC	Motor Control Center	RQ	Requirement
BLDG	Building	ESP	External Static Pressure	MDF	Main Distribution Frame – Data	RTU	Roof Top Unit
BMS	Building Management System	EWH	Electric Wall Heater	MH	Methane	SA	Supply Air
BTU	British Thermal Unit	ETR	Existing To Remain	MIN	Minimum	SEER	Seasonal Energy Efficiency Ratio
BTUH	British Thermal Unit Per Hour	EWT	Entering Water Temperature	MISC	Miscellaneous	SENS	Sensible (BTU)
CAT	Catalogue	EXH	Exhaust	MECH	Mechanical	SHT	Sheet
CD	Condensate Drain	EXIST, EXG	Existing	MTD	Mounted	SHT MTL	Sheet Metal
CFH	Cubic Feet Per Hour	F	Degrees Fahrenheit	MTG	Mounting	SP	Static Pressure
CFM	Cubic Feet Per Minute	FA	Free Area	MTL	Metal	SPECS	Specifications
CHWR	Chilled Water Return	FCU	Fan Coil Unit	MTR	Motor	SPKR	Speaker
CHWS	Chilled Water Supply	FD	Fire Damper	MTRZD	Motorized	SQ	Square
CI	Cast Iron	FPM	Feet Per Minute	VD	Manual Volume Damper	SQFT, SF	Square Feet
CKT	Circuit	FPB	Fan Powered VAV Terminal Unit	NA	Not Applicable	STD	Standard
CLG	Ceiling	FT	Feet	NC	Normally Closed	SW	Switch
CO	Clean Out, Carbon Monoxide	F/A	From Above	NEC	National Electrical Code	SWBD	Switchboard
CO2	Carbon Dioxide	F/B	From Below	NEMA	National Electrical Manufacturers Association	SWGR	Switchgear
COL	Column	GA	Gauge	NFPA	National Fire Protection Association	SYM	Symmetrical
COMM	Communication	GAL	Gallons	NIC	Not In Contract	T-STAT	Thermostat
CONC	Concrete	GALV	Galvanized	NO	Normally Open	TC	Timeclock
CONN	Connect	GC	General Contractor	NOx	Nitrogen Dioxide	TELE	Telephone
CONST	Construction	GEN	Generator	OA	Outside Air	TOT	Total (BTU)
CONT	Continuous	GPH	Gallons Per Hour	OBD	Opposed Blade Damper	TYP	Typical
COP	Coefficient Of Performance	GPM	Gallons Per Minute	OC	On Center	UF	Underfloor
CRAC	Computer Room Air Conditioning Unit	H	Height, Hydrogen	OCC	Occupancy	V	Volt
CT	Cooling Tower	HD	Head	OD	Outside Diameter	VAC	Vacuum
CU	Condensing Unit	HORIZ	Horizontal	OZ	Ounce	VA	Valve
CWO	Cold Water Valved Opening	HP	Horsepower	OED	Open-ended Duct	VAV	Variable Air Volume
CW	Cold Water	HTG	Heating	PE	Photo-Electric	VD	Volume Damper
CWR	Condenser Water Return	HUM	Humidity	PD	Pressure Drop	VERT	Vertical
CWS	Condenser Water Supply	HVAC	Heating, Ventilation, & Air Conditioning	PERF	Perforated	VT	Vent
D	Depth	HVLS	High Velocity Low Speed	PF	Power Factor	VTL	Ventilation
DB	Dry Bulb	HWR	Hot Water Return	PH	Phase	VV	Variable Volume Terminal Unit
DCV	Demand Controlled Ventilation	HWS	Hot Water Supply	PLBG	Plumbing	W	Watts
DIA	Diameter	IN	Inches	PSI	Pounds Per Square Inch	W	Width
DIFF	Diffuser	IN WC	Inches Water Column	PSIA	Pounds Per Square Inch-Absolute	WB	Wet Bulb
DN	Down	KVA	Kilovolt Amperes	PSIG	Pounds Per Square Inch-Gauge	WH	Water Heater
DOAS	Dedicated Outside Air System	KW	Kilowatt	PVC	Polyvinyl Chloride	WMS	Wire Mesh Screen
DTL	Detail	KWH	Kilowatt – Hour	PWR	Power	WP	Weatherproof
DWG	Drawing	L	Length	QTY	Quantity	WT	Weight
EA	Each	LAT	Leaving Air Temperature	R/A	Return Air		
EAT	Entering Air Temperature						

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LICENSE EXP. DATE: 03-31-2026

S.E.D. CONTROL NUMBER:
48-06-01-06-0-001-026

PROJECT TITLE: BREWSTER CENTRAL SCHOOL DISTRICT
C.V. STARR INTERMEDIATE SCHOOL
CAFETORIUM ADDITION, INTERIOR RENOVATIONS AND SITE WORK
20 FARM TO MARKET ROAD BREWSTER, NY 10509

DRAWING TITLE: MECHANICAL NOTES & LEGEND

DATE	ISSUED TO
12-09-2024	BID
09-25-2024	ADDENDUM 1
03-05-2024	SED SUBMISSION
11-29-2023	D.D. SUBMISSION
08-31-2023	S.D. SUBMISSION

SHEET SIZE: 30"x42"
DRAWING NO.: CVS M001
SCALE: AS NOTED
DRAWN BY: LFG
FILE NO.: 23505.02

PLOT DATE: December 02, 2024 - 5:52pm

FILE: N:\Brewster Central Schools\2023 Capital Projects\CV Starr Intermediate School\PACKAGE 2 - Cafetorium\ACAD\Mechanical\CVS PKG2_M-001_M-002.dwg

VENTILATION AIR REQUIREMENTS

Project:	C.V. STARR INTERMEDIATE SCHOOL			State:	New York	Relevant Code:	IMC 2015		
HVAC ZONE	AREA SERVED	OCCUPANCY CLASSIFICATION	OCCUPANT DENSITY (#/1000 SQFT)	OCCUPANT LOAD Pz (Az)	REQUIRED VENTILATION Rp / Ra	ZONE AIR DIST. EFFECTIVENESS (Ez)	O.A/E.A. REQUIRED (CFM) Vbz	O.A/E.A. DESIGN (CFM)	REMARKS
ERV-1	BOY'S TOILET	Toilet rooms - public (continuous fan)	0	4 (230 SF)	50 CFM EXHAUST AIR	0.8	50	100	4
	GIRL'S TOILET	Toilet rooms - public (continuous fan)	0	4 (230 SF)	50 CFM EXHAUST AIR	0.8	50	100	4
	CORRIDOR 40	Corridors	0	- (430 SF)	- CFM/PERSON 0.06 CFM/SF	0.8	32	35	4
	OFFICE 44	Office spaces	5	2 (185 SF)	5 CFM/PERSON 0.06 CFM/SF	0.8	26	30	1, 4
	OFFICE 43	Office spaces	5	2 (180 SF)	5 CFM/PERSON 0.06 CFM/SF	0.8	26	30	1, 4
	J.C. 46	Toilet rooms - public (continuous fan)	0	- (65 SF)	50 CFM EXHAUST AIR	0.8	50	50	4
	MECH. 47	Storage rooms	0	- (285 SF)	- CFM/PERSON 0.12 CFM/SF	0.8	43	45	4
	S.E. VESTIBULE	Lobbies/prefunction	30	2 (60 SF)	7.5 CFM/PERSON 0.06 CFM/SF	0.8	23	25	2
	CORRIDOR 45	Corridors	0	- (680 SF)	- CFM/PERSON 0.06 CFM/SF	0.8	51	55	4
	VESTIBULE 48	Lobbies/prefunction	30	4 (110 SF)	7.5 CFM/PERSON 0.06 CFM/SF	0.8	46	50	2
	CALCULATED OUTSIDE/MAKEUP AIR FOR SYSTEM TOTAL						328	445	
RTU-2 & MUA-1	DRY STORAGE 50A	Storage rooms	0	- (170 SF)	- CFM/PERSON 0.12 CFM/SF	0.8	26	30	1, 5
	DRY STORAGE 50B	Storage rooms	0	- (110 SF)	- CFM/PERSON 0.12 CFM/SF	0.8	17	20	1, 5
	KITCHEN	Kitchens (cooking)	0	- (1850 SF)	0.7 CFM EXHAUST AIR	0.8	1620	1620	1, 5
	KITCHEN LOCKER	Locker/dressing rooms	0	- (90 SF)	0.25 CFM EXHAUST AIR	0.8	30	30	1, 5
	KITCHEN J.C.	Toilet rooms - public (continuous fan)	0	- (25 SF)	50 CFM EXHAUST AIR	0.8	50	50	1, 5
	KITCHEN OFFICE	Office spaces	5	1 (105 SF)	5 CFM/PERSON 0.06 CFM/SF	0.8	14	15	1, 5
	KITCHEN ELEC.	Storage rooms	0	- (60 SF)	- CFM/PERSON 0.12 CFM/SF	0.8	9	10	1, 5
	CALCULATED OUTSIDE/MAKEUP AIR FOR SYSTEM TOTAL						1765	1775	
RTU-1	CAFETORIUM	Cafeteria, fast food	100	620 (6195 SF)	7.5 CFM/PERSON 0.18 CFM/SF	0.8	7206	7210	3
	CORRIDOR 51 - VEST.	Corridors	0	- (130 SF)	- CFM/PERSON 0.06 CFM/SF	0.8	10	10	2
	CALCULATED OUTSIDE/MAKEUP AIR FOR SYSTEM TOTAL						7206	7210	
ERV-2	STAGE 49A	Stages/studios	70	96 (1365 SF)	10 CFM/PERSON 0.06 CFM/SF	0.8	1302	1305	4
	CORRIDOR 51	Corridors	0	- (315 SF)	- CFM/PERSON 0.06 CFM/SF	0.8	24	25	4
	CALCULATED OUTSIDE/MAKEUP AIR FOR SYSTEM TOTAL						1326	1330	

REMARKS:

1. OUTSIDE AIR TO BE PROVIDED VIA CEILING CASSETTE EQUIPMENT.
2. OUTSIDE AIR TO BE PROVIDED VIA OPENING DOOR(S) AND NOT INCLUDED IN THE O.A./E.A. DESIGN (CFM)TOTAL.
3. OUTSIDE AIR TO BE PROVIDED VIA RTU.
4. OUTSIDE AIR TO BE PROVIDED VIA ERV.
5. OUTSIDE AIR TO BE PROVIDED VIA MUA.

VENTILATION AIR REQUIREMENTS

Project:	C.V. STARR INTERMEDIATE SCHOOL			State:	New York	Relevant Code:	IMC 2015		
HVAC ZONE	AREA SERVED	OCCUPANCY CLASSIFICATION	OCCUPANT DENSITY (#/1000 SQFT)	OCCUPANT LOAD Pz (Az)	REQUIRED VENTILATION Rp / Ra	ZONE AIR DIST. EFFECTIVENESS (Ez)	O.A/E.A. REQUIRED (CFM) Vbz	O.A/E.A. DESIGN (CFM)	REMARKS
FCU-3	CORRIDOR 180	Corridors	0	- (575 SF)	- CFM/PERSON 0.06 CFM/SF	0.8	43	45	1
	SECURITY OFFICE 181	Office spaces	5	2 (280 SF)	5 CFM/PERSON 0.06 CFM/SF	0.8	34	35	1
	STORAGE	Storage rooms	0	- (30 SF)	- CFM/PERSON 0.12 CFM/SF	0.8	5	5	1
	CALCULATED OUTSIDE/MAKEUP AIR FOR SYSTEM TOTAL						81	85	
(E) ERU-1	CLASSROOM C1	Classrooms (ages 9 plus)	35	28 (795 SF)	10 CFM/PERSON 0.12 CFM/SF	0.8	469	470	3
	SGI C2	Classrooms (ages 9 plus)	35	2 (345 SF)	10 CFM/PERSON 0.12 CFM/SF	0.8	77	80	3
	CORRIDOR C5 & (E)CORRIDOR	Corridors	0	- (435 SF)	- CFM/PERSON 0.06 CFM/SF	0.8	33	35	3
	SGI C3	Classrooms (ages 9 plus)	35	2 (345 SF)	10 CFM/PERSON 0.12 CFM/SF	0.8	77	80	3
	CLASSROOM C4	Classrooms (ages 9 plus)	35	2 (915 SF)	10 CFM/PERSON 0.12 CFM/SF	0.8	162	165	3
	CALCULATED OUTSIDE/MAKEUP AIR FOR SYSTEM TOTAL						818	830	

REMARKS:

1. OUTSIDE AIR TO BE PROVIDED VIA ABOVE CLG. FAN COIL UNIT
2. OUTSIDE AIR TO BE PROVIDED VIA OPENING DOOR(S) AND NOT INCLUDED IN THE O.A./E.A. DESIGN (CFM)TOTAL.
3. OUTSIDE AIR TO BE PROVIDED VIA (E) ERU - VAV BOX
4. OUTSIDE AIR TO BE PROVIDED VIA ERV.

PLEASE SEE DRAWING M-ALT FOR THE VENTILATION TABLE THAT APPLIES TO THE ALTERNATIVE #1 & #2 DESIGNS.

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LICENSE EXP. DATE: 03-31-2026

S.E.D. CONTROL NUMBER:
48-06-01-06-0-001-026

PROJECT TITLE
BREWSTER CENTRAL SCHOOL DISTRICT
C.V. STARR INTERMEDIATE SCHOOL
CAFETORIUM ADDITION, INTERIOR RENOVATIONS & RELATED WORK
20 FARM TO MARKET ROAD BREWSTER, NY 10509

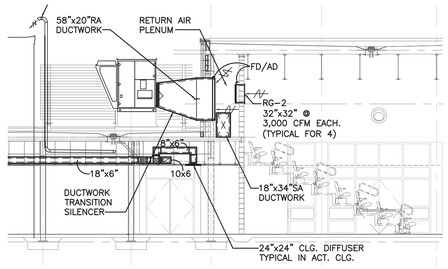
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MECHANICAL BASE-BID VENTILATION TABLES

DATE	ISSUED TO
12-09-2024	BID
09-25-2024	ADDENDUM 1
03-05-2024	SED SUBMISSION
11-29-2023	D.D. SUBMISSION
08-31-2023	S.D. SUBMISSION

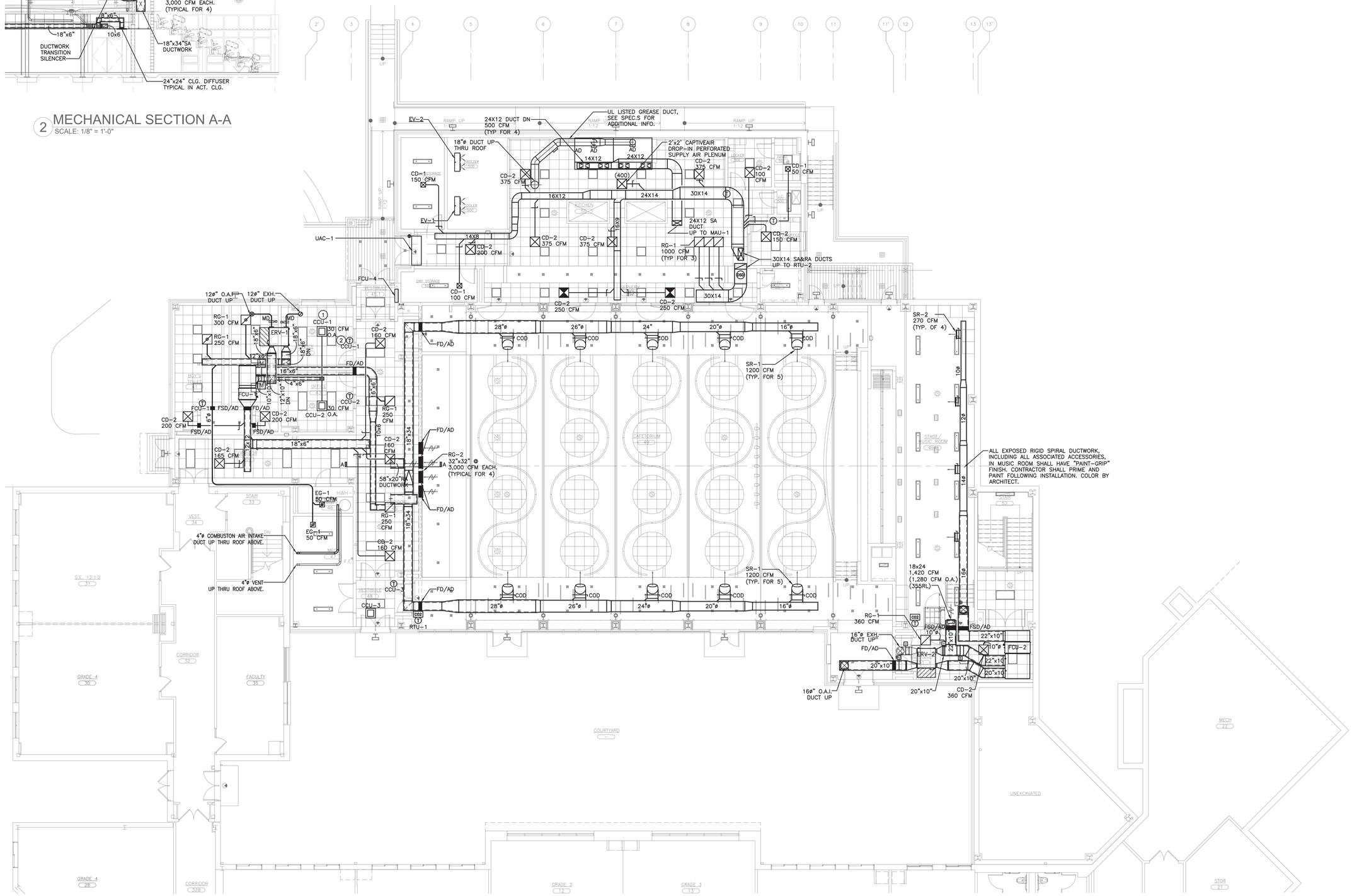
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SCALE: AS NOTED
DRAWN BY: LFG
FILE NO.: 23505.02

PLOT DATE: December 02, 2024 - 5:52pm

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2 MECHANICAL SECTION A-A
SCALE: 1/8" = 1'-0"



1 MECHANICAL PLAN - GROUND FLOOR
SCALE: 1/8" = 1'-0"

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LICENSE EXP. DATE: 03-31-2026

S.E.D. CONTROL NUMBER:
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PROJECT TITLE
BREWSTER CENTRAL SCHOOL DISTRICT
C.V. STARR INTERMEDIATE SCHOOL
CAFETORIUM ADDITION INTERIOR
RENOVATIONS AND RELATED WORK
20 FARM TO MARKET ROAD BREWSTER, NY 10509

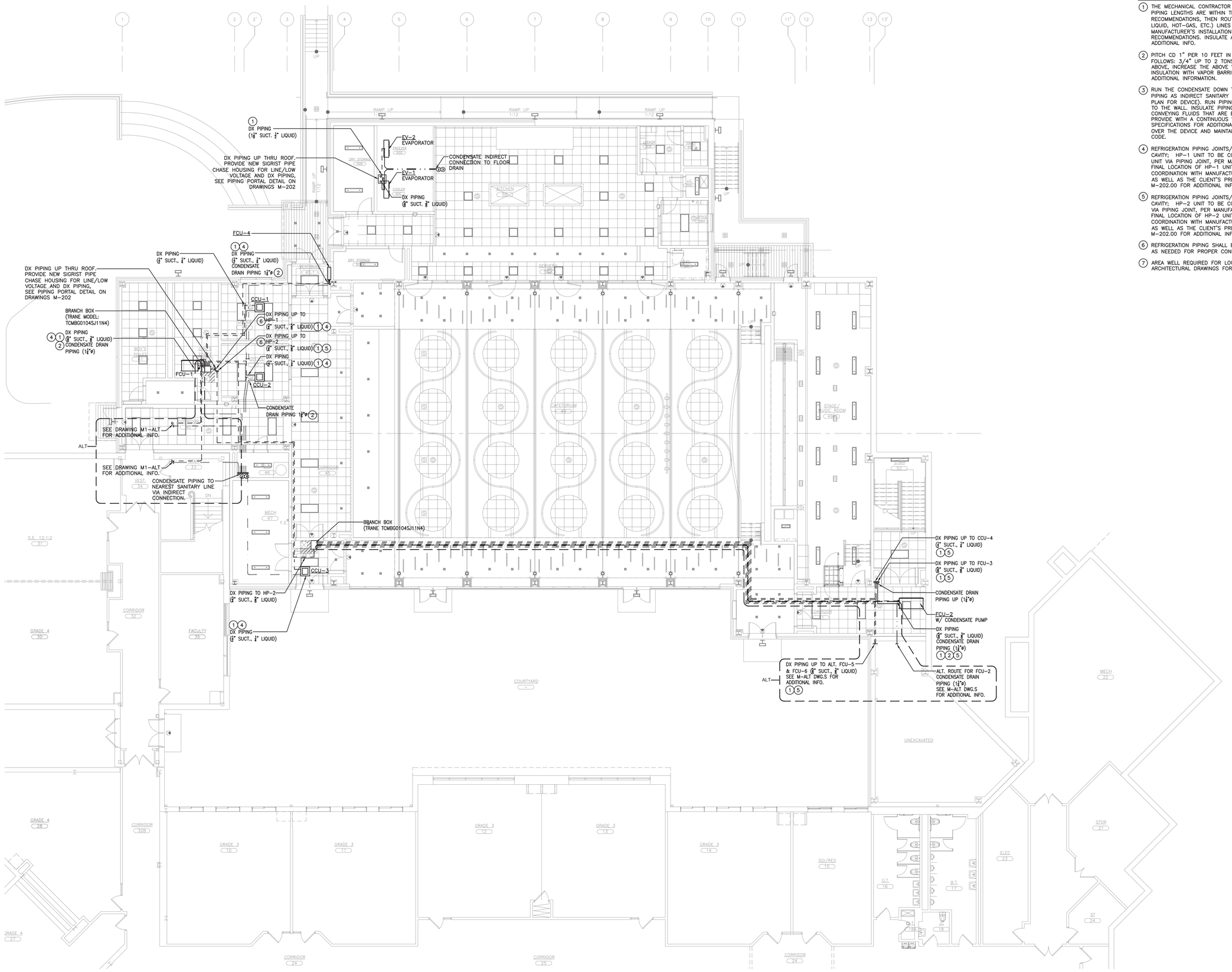
DRAWING TITLE
GROUND FLOOR
MECHANICAL DUCTWORK PLAN

DATE	ISSUED TO
12-09-2024	BID
09-25-2024	ADDENDUM 1
03-05-2024	SED SUBMISSION
11-29-2023	D.D. SUBMISSION
08-31-2023	S.D. SUBMISSION

SHEET SIZE 30"x42"
SCALE AS NOTED
DRAWING NO. CVS M100.1
DRAWN BY LFG
FILE NO. 23505.02

PLOT DATE: December 02, 2024 - 5:53pm

FILE: N:\Brewster Central Schools\2023 Capital Projects\CV Starr Intermediate School\PACKAGE 2 - Cafetorium\ACAD\Mechanical\CVS PKG2_M-100.dwg



MECHANICAL NEW PIPING WORK NOTES:

1. THE MECHANICAL CONTRACTOR SHALL CONFIRM NEW REFRIGERANT PIPING LENGTHS ARE WITHIN THE MANUFACTURER'S RECOMMENDATIONS, THEN ROUTE ALL REFRIGERANT (I.E. SUCTION, LIQUID, HOT-GAS, ETC.) LINES IN STRICT ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS AND RECOMMENDATIONS. INSULATE ALL PIPING. REFER TO SPECS FOR ADDITIONAL INFO.
2. PITCH CD 1" PER 10 FEET IN DIRECTION OF FLOW. SIZE AS FOLLOWS: 3/4" UP TO 2 TONS. WHERE PITCH IS LESS THAN ABOVE, INCREASE THE ABOVE VALUES ONE PIPE SIZE. PROVIDE INSULATION WITH VAPOR BARRIER. REFER TO SPECS. FOR ADDITIONAL INFORMATION.
3. RUN THE CONDENSATE DOWN TO NEAREST MOP OR LAV SINK PIPING AS INDIRECT SANITARY CONNECTION (REFER TO PLUMBING PLAN FOR DEVICE). RUN PIPING RISER CONCEALED AND SECURE TO THE WALL. INSULATE PIPING CONSISTENT WITH PIPING CONVEYING FLUIDS THAT ARE BELOW AMBIENT TEMPERATURE. PROVIDE WITH A CONTINUOUS VAPOR BARRIER, REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION. TERMINATE DRAIN OVER THE DEVICE AND MAINTAIN A MINIMUM 1" AIR GAP PER CODE.
4. REFRIGERATION PIPING JOINTS/HEADER LOCATED IN CEILING CAVITY; HP-1 UNIT TO BE CONNECTED TO EACH CCU/FCU/WH UNIT VIA PIPING JOINT, PER MANUFACTURER'S RECOMMENDATIONS. FINAL LOCATION OF HP-1 UNIT TO BE DETERMINED IN COORDINATION WITH MANUFACTURER'S PIPE LENGTH LIMITATIONS AS WELL AS THE CLIENT'S PREFERENCE'S. SEE PIPING RISER ON M-202.00 FOR ADDITIONAL INFO.
5. REFRIGERATION PIPING JOINTS/HEADER LOCATED IN CEILING CAVITY; HP-2 UNIT TO BE CONNECTED TO EACH FCU/WH UNIT VIA PIPING JOINT, PER MANUFACTURER'S RECOMMENDATIONS. FINAL LOCATION OF HP-2 UNIT TO BE DETERMINED IN COORDINATION WITH MANUFACTURER'S PIPE LENGTH LIMITATIONS AS WELL AS THE CLIENT'S PREFERENCE'S. SEE PIPING RISER ON M-202.00 FOR ADDITIONAL INFO.
6. REFRIGERATION PIPING SHALL BE ROUTED THROUGH THE ROOF AS NEEDED FOR PROPER CONNECTION TO CCU/FCU/WH UNIT.
7. AREA WELL REQUIRED FOR LOUVER INSTALLATION, SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.

1 MECHANICAL PIPING PLAN - GROUND FLOOR

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

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LICENSE EXP. DATE: 03-31-2026

S.E.D. CONTROL NUMBER: 48-06-01-06-0-001-026

PROJECT TITLE
BREWSTER CENTRAL SCHOOL DISTRICT
C.V. STARR INTERMEDIATE SCHOOL
CAFETORIUM ADDITION & INTERIOR RENOVATIONS AND SITE WORK
20 FARM TO MARKET ROAD BREWSTER, NY 10509

DRAWING TITLE
GROUND FLOOR MECHANICAL PIPING PLAN

DATE	ISSUED TO
12-09-2024	BID
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03-05-2024	SED SUBMISSION
11-29-2023	D.D. SUBMISSION
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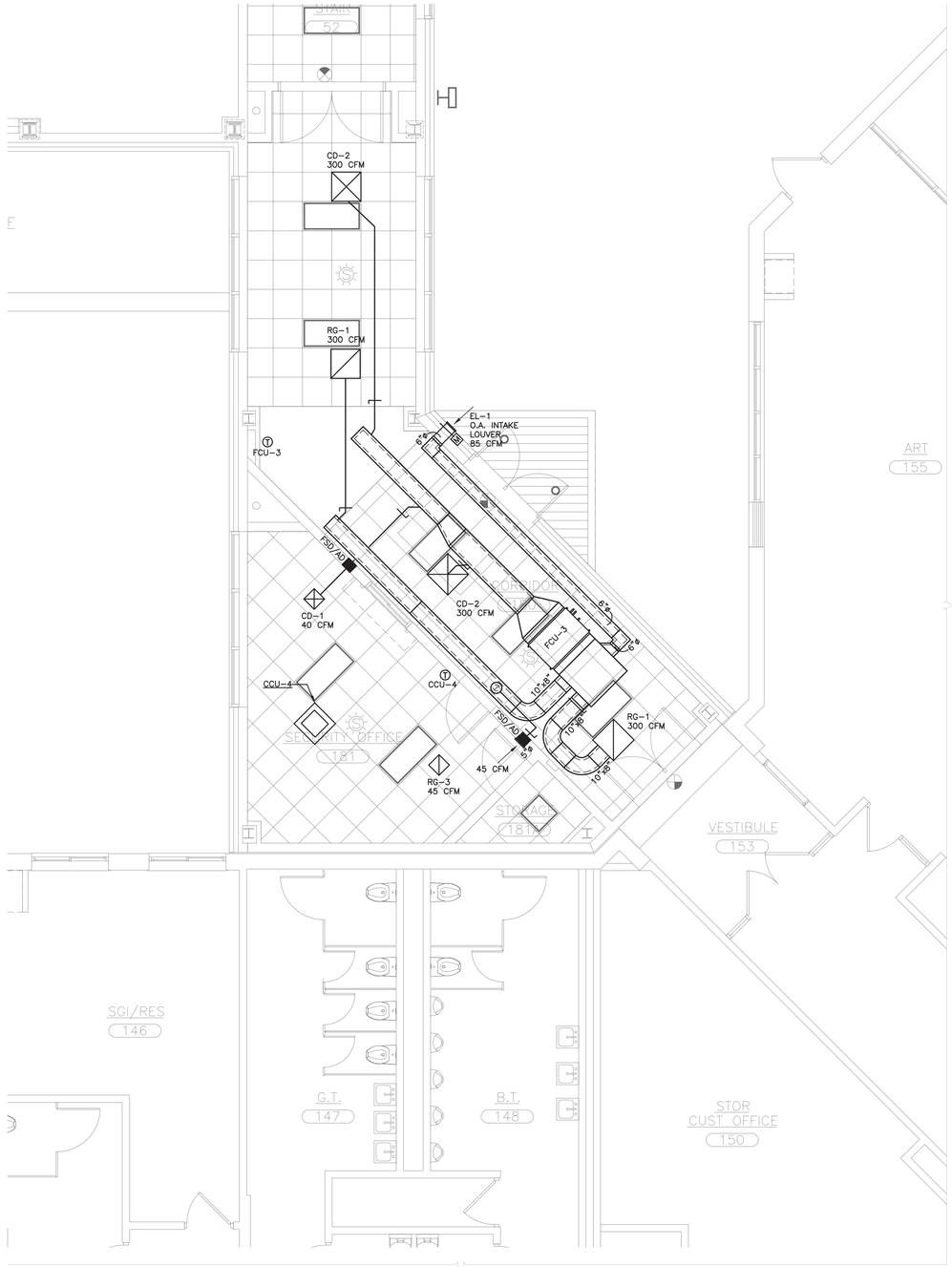
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DRAWN BY LFG
FILE NO. 23505.02

PLOT DATE: December 02, 2024 - 5:53pm

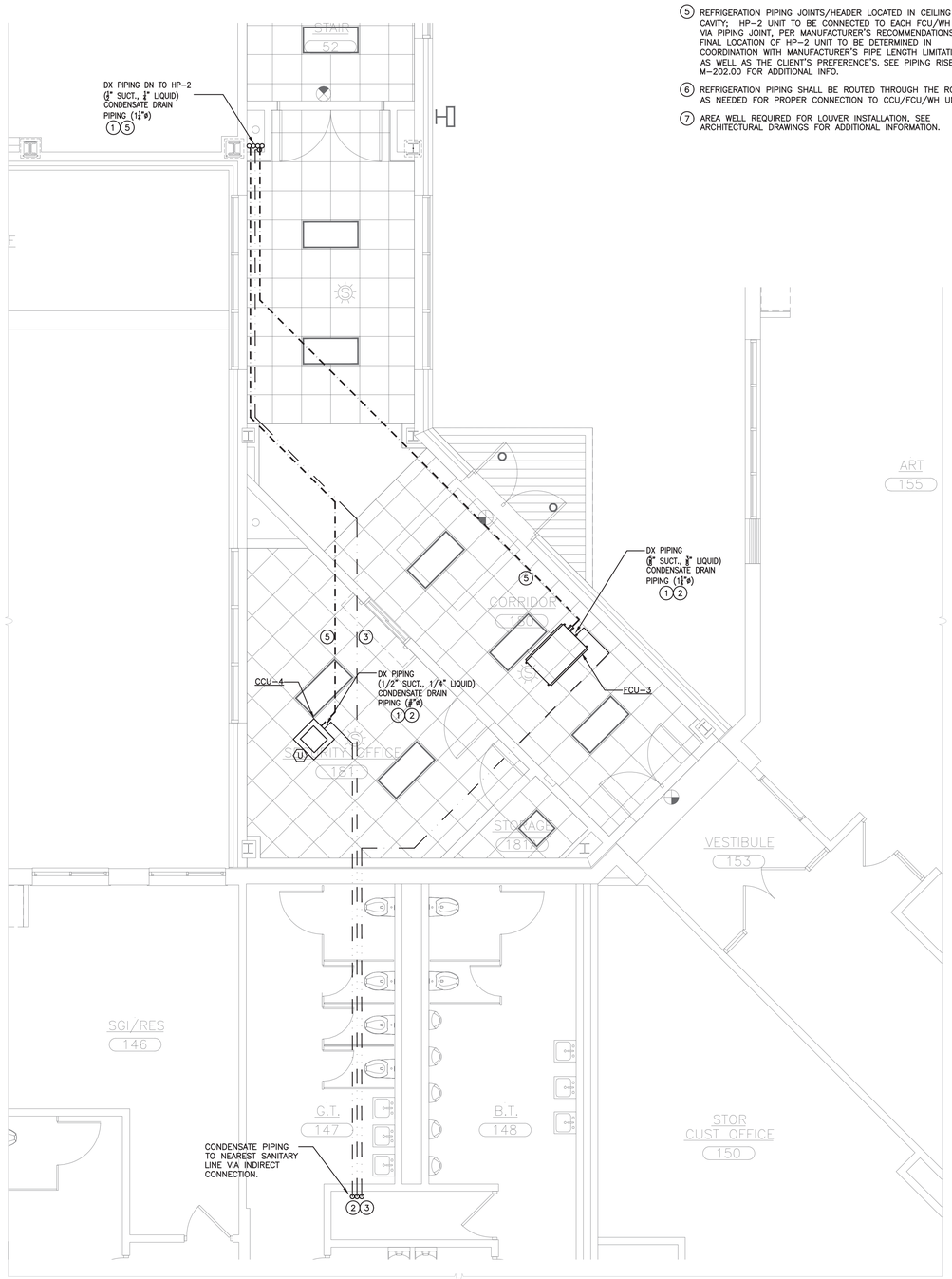
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MECHANICAL NEW PIPING WORK NOTES:

1. THE MECHANICAL CONTRACTOR SHALL CONFIRM NEW REFRIGERANT PIPING LENGTHS ARE WITHIN THE MANUFACTURER'S RECOMMENDATIONS, THEN ROUTE ALL REFRIGERANT (I.E. SUCTION, LIQUID, HOT-GAS, ETC.) LINES IN STRICT ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS AND RECOMMENDATIONS. INSULATE ALL PIPING. REFER TO SPECS FOR ADDITIONAL INFO.
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7. AREA WELL REQUIRED FOR LOUVER INSTALLATION, SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.



1 PARTIAL FIRST FLOOR MECHANICAL REFLECTED CEILING DUCTWORK PLAN
SCALE: 1/4" = 1'-0"



2 PARTIAL FIRST FLOOR NEW MECHANICAL REFLECTED CEILING PIPING PLAN
SCALE: 1/4" = 1'-0"

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AREA OF WORK

KEY PLAN N

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LICENSE EXP. DATE: 03-31-2026

S.E.D. CONTROL NUMBER:
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BREWSTER CENTRAL SCHOOL DISTRICT
C.V. STARR INTERMEDIATE SCHOOL
CAFETORIUM ADDITION & INTERIOR RENOVATIONS AND SITE IMPROVEMENTS
20 FARM TO MARKET ROAD BREWSTER, NY 10509

DRAWING TITLE
FIRST FLOOR
MECHANICAL DEMO & NEW REFLECTED CEILING PLANS

DATE	ISSUED TO
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09-25-2024	ADDENDUM 1
03-05-2024	SED SUBMISSION
11-29-2023	D.D. SUBMISSION
08-31-2023	S.D. SUBMISSION

SHEET SIZE: 30"x42"
DRAWING NO.: CVS M101.1
SCALE: AS NOTED
DRAWN BY: LFG
FILE NO.: 23505.02

PLOT DATE: December 02, 2024 - 5:53pm

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GENERAL MECHANICAL DEMO NOTES:

1. ALL DEMOLITION WORK TO BE COORDINATED WITH BUILDING MANAGER TO AVOID DISTURBANCES TO OTHER OCCUPANTS. ALL DEMOLITION WORK TO BE DONE DURING THE HOURS DESIGNATED.
2. MAINTAIN STABLE AND SAFE CONDITIONS AT ALL TIMES, TAKING CAUTION TO PROTECT THE EXISTING AND ADJACENT BUILDINGS, THEIR OCCUPANTS, STREET FRONT AND THE PUBLIC.
3. DEMOLISHED MATERIAL, NOT IDENTIFIED FOR SALVAGE BY THE OWNER, SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE COMPLETELY REMOVED FROM THE JOB SITE.
4. PROVIDE PROTECTION TO ALL EXISTING ELECTRICAL, MECHANICAL, PLUMBING, AND SPRINKLER EQUIPMENT TO REMAIN.
5. COORDINATE WITH GENERAL CONTRACTOR TO REMOVE ALL ABANDONED ELECTRICAL CABLES FROM EXISTING LOCATIONS, TRACE BACK TO THEIR SOURCE AND TAG.
6. ALL LIFE SAFETY EQUIPMENT AND ASSOCIATED CONDUIT AND WIRING SHALL BE PROTECTED FROM ANY PHYSICAL DAMAGE DURING DEMOLITION AND/OR CONSTRUCTION.
7. THE SCOPE OF THE DEMOLITION WORK HAS GENERALLY BEEN INDICATED ON THE DRAWING FOR CONTRACTORS INFORMATION. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO DETERMINE THE FULL SCOPE, EXTENT, NATURE AND MANNER OF DEMOLITION REQUIRED.
8. ONLY WORKMEN SKILLED AND KNOWLEDGEABLE IN THEIR RESPECTIVE TRADES SHALL BE ENGAGED IN THE DEMOLITION OF ANY WORK.
9. CONTRACTORS SHALL TAKE SPECIAL CARE TO DEMOLISH ONLY THAT WORK WHICH IS REQUIRED TO BE DEMOLISHED AND NOT TO DISTURB ANY WORK WHICH IS TO REMAIN. IF IN THE COURSE OF DEMOLITION, CONTRACTOR DESTROYS OR DISTURBS ANY WORK WHICH IS TO REMAIN, THEN HE SHALL AT HIS OWN EXPENSE, REPAIR OR REPLACE SUCH WORK AS NECESSARY.
10. REMOVE AND DISCARD ALL DEMOLISHED ITEMS IN A MANNER FULLY APPROVED BY THE CITY OF NEW YORK AND ANY OTHER GOVERNMENT AGENCY.
11. DO NOT SCALE DRAWINGS.
12. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND JOB CONDITIONS PRIOR TO SUBMITTING BIDS AND SHALL REPORT TO THE OWNER'S REPRESENTATIVE ANY DISCREPANCIES OR OMISSIONS WHICH WOULD INTERFERE WITH SATISFACTORY COMPLETION OF WORK. ALL BUILDING DEPARTMENT PERMITS SHALL BE OBTAINED PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION WORK.
13. CONTRACTOR SHALL NOTE THAT DEMOLITION OF EXISTING HEAT EXCHANGERS AND HOT WATER CIRCULATION PUMPS WILL INTERRUPT OPERATION OF THE HEATING SYSTEM. AT NO TIME SHALL BUILDING BE LEFT WITHOUT HEAT WHEN OUTDOOR TEMPERATURES ARE 50°F OR BELOW. IN SUCH AN EVENT, CONTRACTOR SHALL FURNISH TEMPORARY HEAT AT HIS EXPENSE.

MECHANICAL DEMO KEY NOTES:

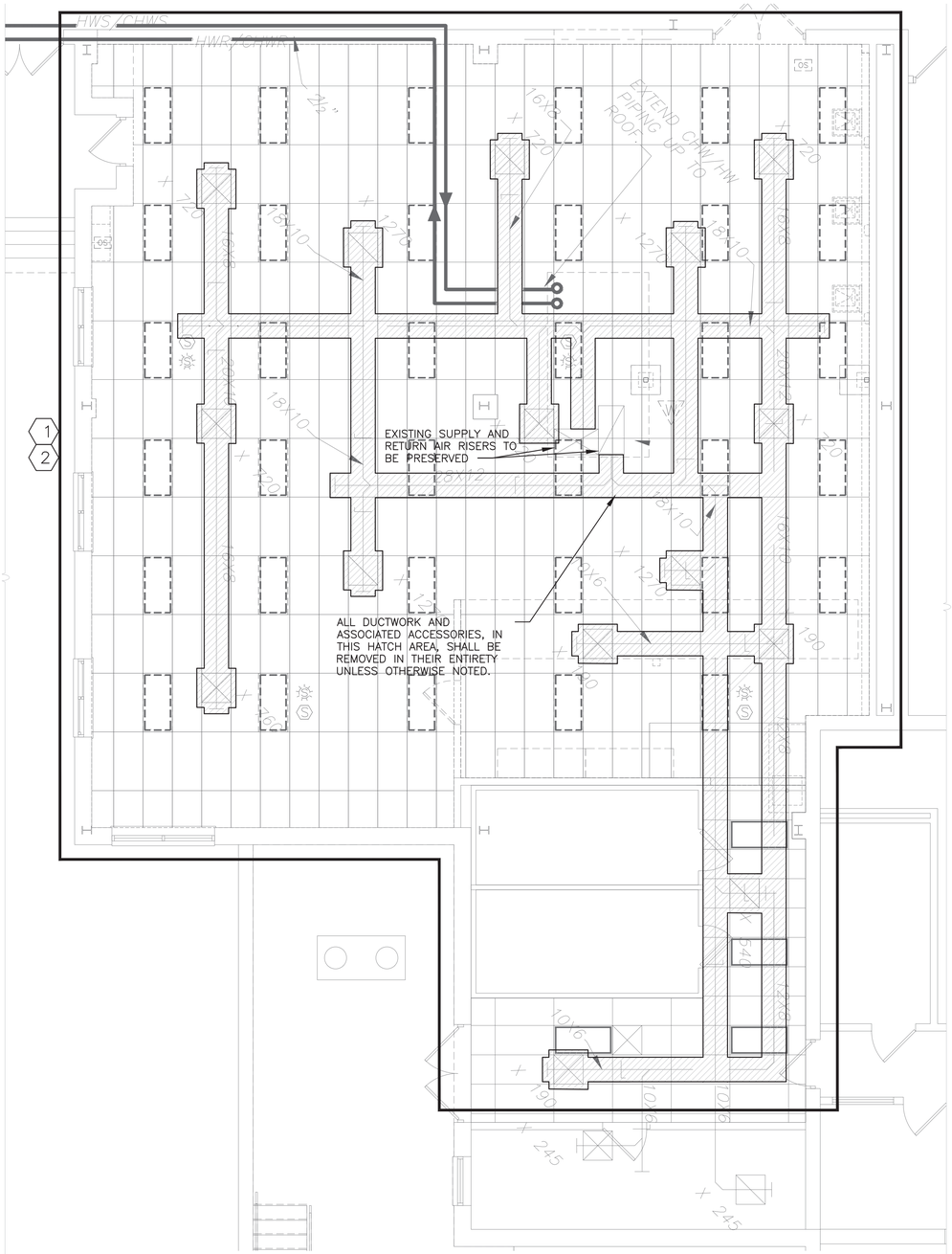
1. DISCONNECT AND REMOVE EXISTING WALL MOUNTED THERMOSTATS.
2. DISCONNECT, REMOVE, ALL SUPPLY AND RETURN AIR DUCTWORK, UNLESS OTHERWISE NOTED. EXISTING SUPPLY AND RETURN AIR DUCTWORK RISERS SHALL BE PRESERVED FOR FOR PROPER INSTALLATION AND CONNECTION TO NEW VAV–BOX SYSTEMS.

MECHANICAL NEW WORK KEY NOTES

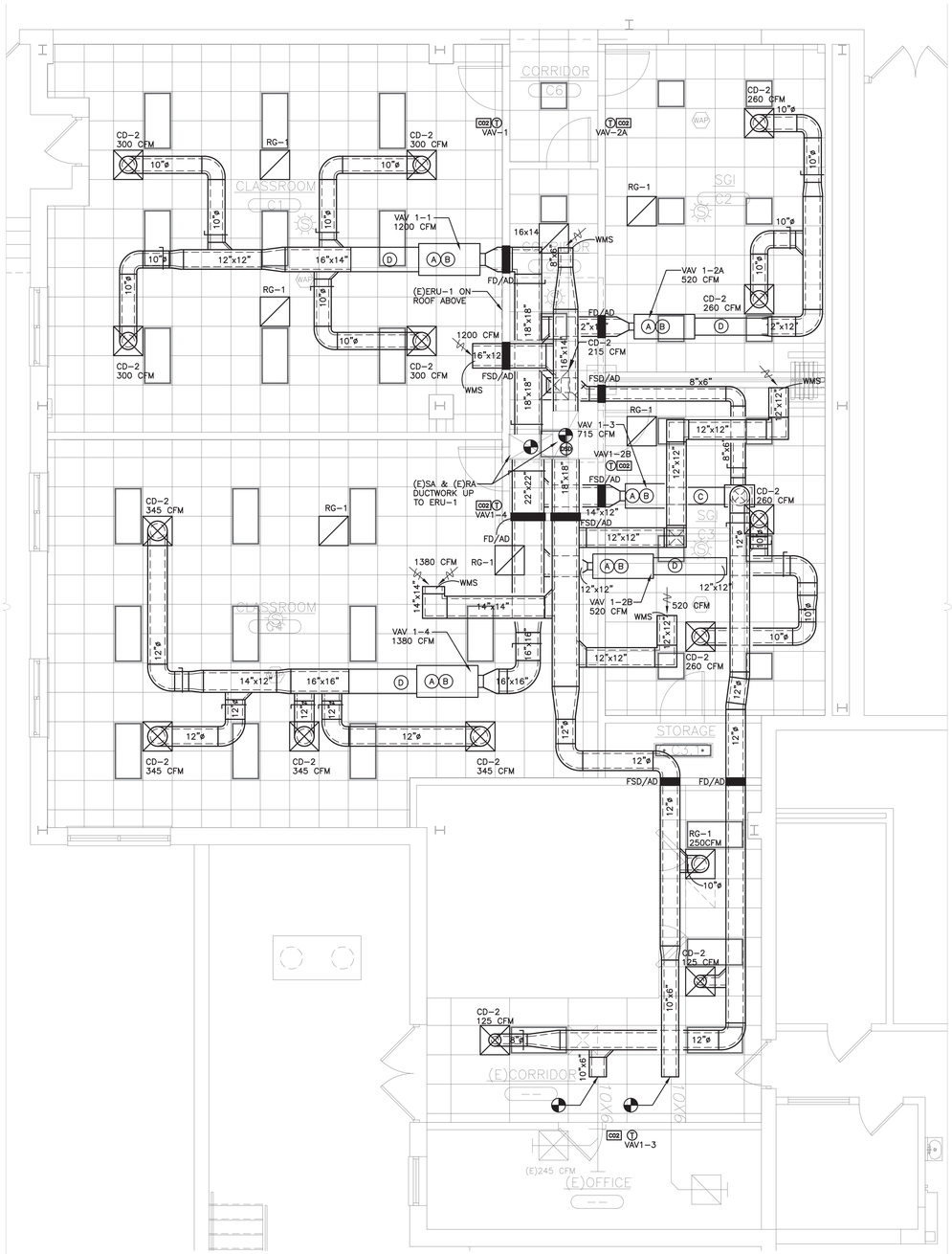
- (A) MOUNT CLG. VAV BOX (VAV) IN STRICT ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLATION OF THE ASSOCIATED CONTROLLER AND VERIFICATION THAT THE UNIT IS FUNCTIONING AS INTENDED.
- (B) PROVIDE AIRTIGHT DUCT ACCESS DOOR IMMEDIATELY DOWNSTREAM OF COIL FOR CLEANING AND INSPECTION.
- (C) PROVIDE VAV–BOX WITH 3'–0" DUCTWORK SILENCER.
- (D) PROVIDE VAV–BOX WITH 5'–0" DUCTWORK SILENCER.

GENERAL MECHANICAL - VAV NOTES:

1. ALL VAV BOXES TO BE EQUIPPED WITH HOT WATER REHEAT COILS.
2. ALL DUCTWORK WITHIN 15FT OF FANS SHALL BE ACOUSTICALLY LINED. UPSIZE DUCTWORK TO COMPENSATE FOR LINER THICKNESS.

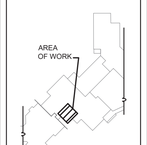


1 PARTIAL FIRST FLOOR MECHANICAL REFLECTED CEILING DEMO PLAN
SCALE: 1/4" = 1'-0"



2 PARTIAL FIRST FLOOR NEW MECHANICAL REFLECTED CEILING DUCTWORK PLAN
SCALE: 1/4" = 1'-0"

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LICENSE EXP. DATE: 03-31-2026

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PROJECT TITLE
BREWSTER CENTRAL SCHOOL DISTRICT
C.V. STARR INTERMEDIATE SCHOOL
CAFETORIUM ADDITION, INTERIOR RENOVATIONS & RELATED WORK
20 FARM TO MARKET ROAD BREWSTER, NY 10509

DRAWING TITLE
FIRST FLOOR
MECHANICAL DEMO & NEW REFLECTED CEILING DUCTWORK PLANS

DATE	ISSUED TO
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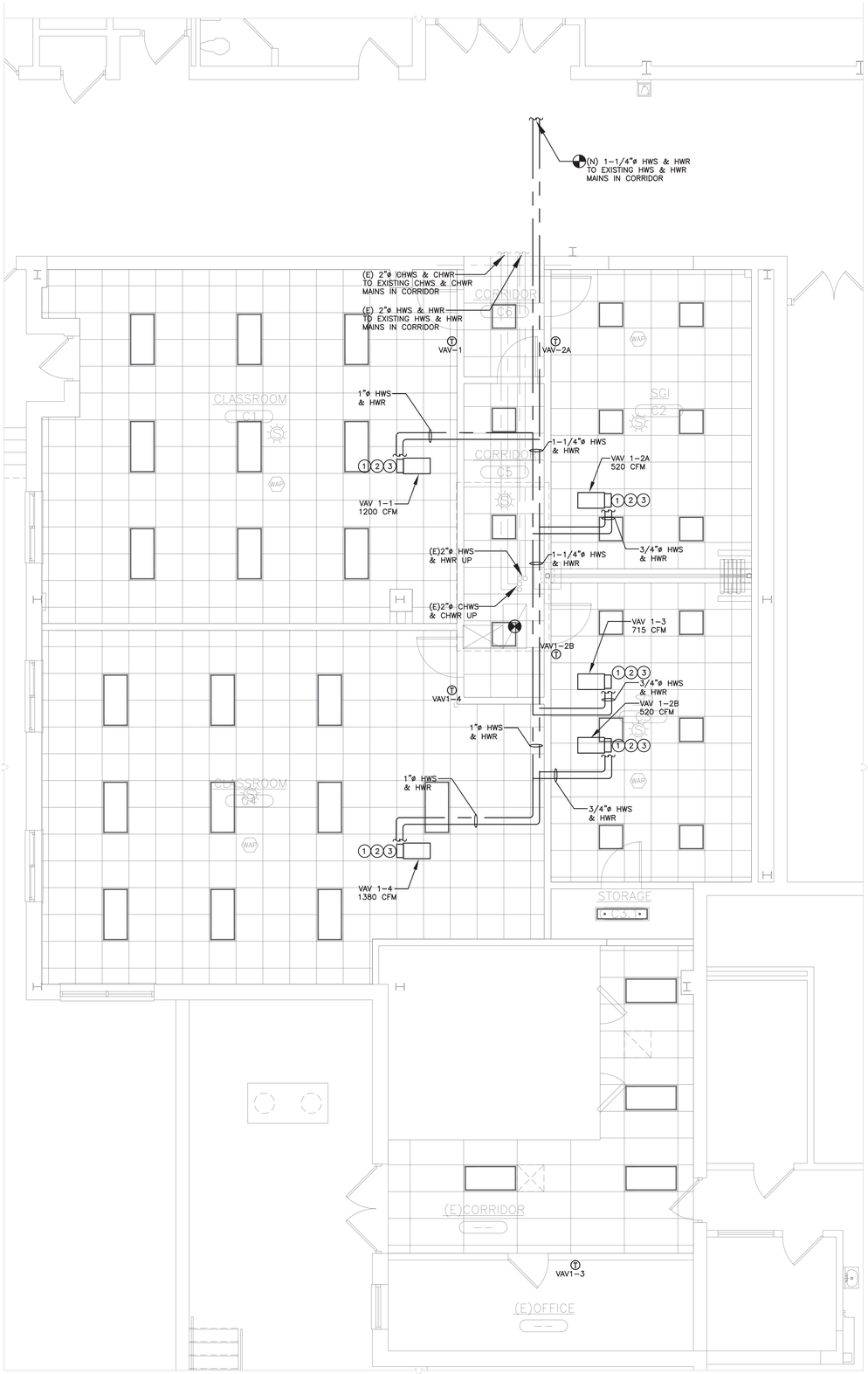
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SCALE: AS NOTED
DRAWN BY: LFG
FILE NO.: 23505.02

PLOT DATE: December 02, 2024 - 5:53pm

FILE: N:\Brewster Central Schools\2023 Capital Projects\CV Starr Intermediate School\PACKAGE 2 – Cafetorium\ACAD\Mechanical\CVS PKG2_M-101_102.dwg

MECHANICAL (VAV) HOTWATER PIPING NOTES:

1. THE MECHANICAL CONTRACTOR SHALL CONFIRM NEW REHEAT OR PREHEAT COIL PIPING LENGTHS ARE WITHIN THE MANUFACTURER'S RECOMMENDATIONS, THEN ROUTE ALL HOT WATER (I.E. SUPPLY AND RETURN) LINES IN STRICT ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS AND RECOMMENDATIONS. INSULATE ALL PIPING. REFER TO SPECS FOR ADDITIONAL INFO.
2. ALL COILS SHALL BE EQUIPPED WITH BALL TYPE ISOLATION VALVES, AUTOMATIC BALANCE VALVES AND 2-WAY MOTORIZED CONTROL VALVES. REFER TO HEATING COIL DETAIL FOR ADDITIONAL INFORMATION.
3. PROVIDE AIRTIGHT DUCT ACCESS DOOR IMMEDIATELY DOWNSTREAM OF COIL FOR CLEANING AND INSPECTION.



1 PARTIAL FIRST FLOOR NEW MECHANICAL REFLECTED CEILING PIPING PLAN
SCALE: 1/4" = 1'-0"

0 2' 4' 8' 16'

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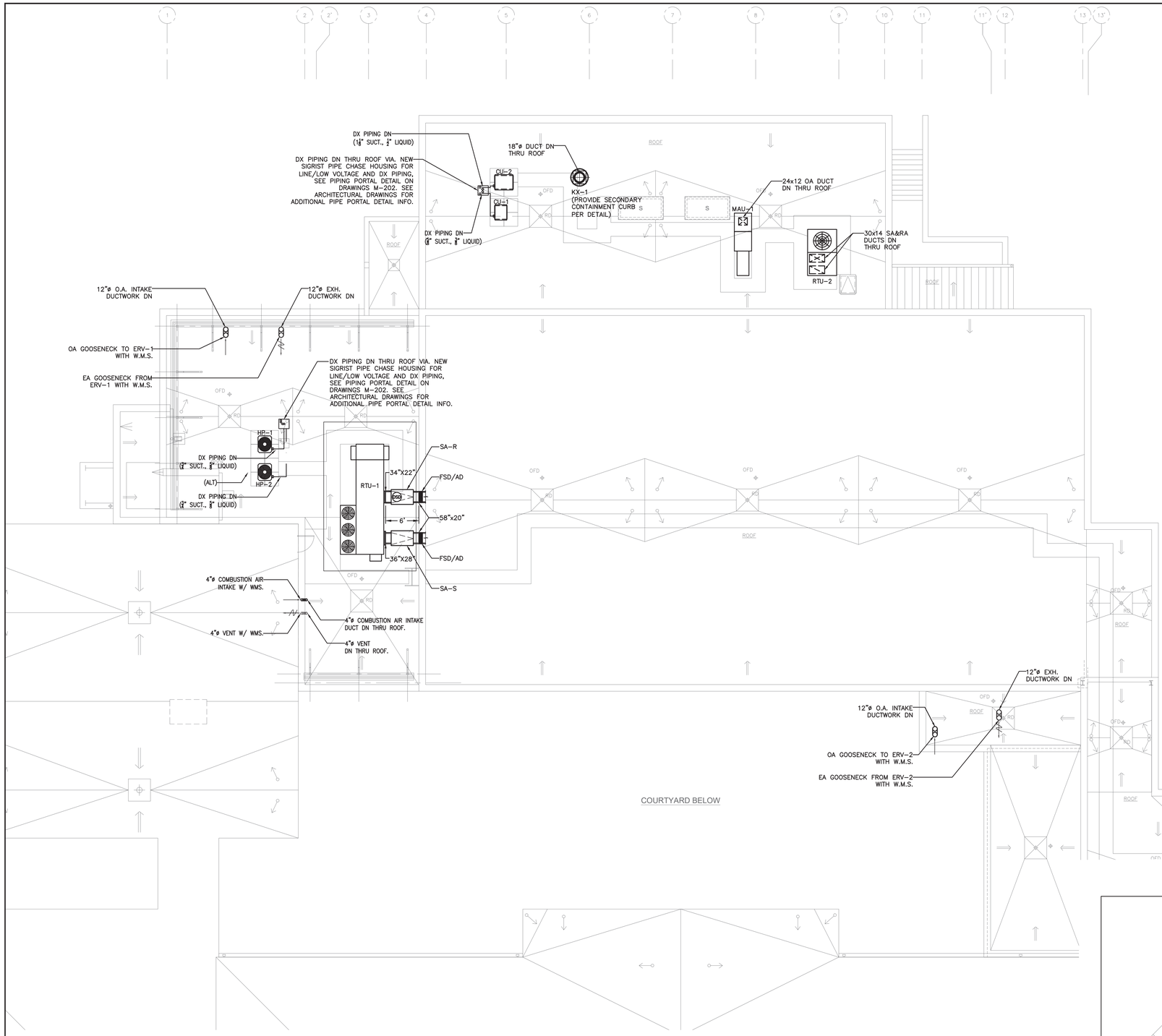
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FILE NO. 23505.02

PLOT DATE: December 02, 2024 - 5:53pm

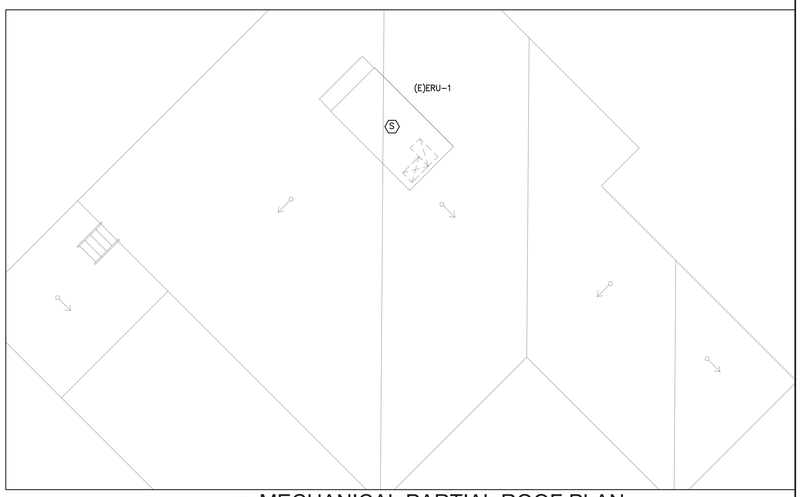
FILE: N:\Brewster Central Schools\2023 Capital Projects\CV Starr Intermediate School\PACKAGE 2 - Cafetorium\ACAD\Mechanical\CVS PKG2_M-101_102.dwg

MECHANICAL GENERAL ROOF NOTES:

1. REFER TO WRITTEN (BOOK) SPECIFICATIONS FOR ADDITIONAL INFORMATION.
2. MAINTAIN MANUFACTURER'S RECOMMENDED SERVICE CLEARANCES TO ALL EQUIPMENT ON ROOF. DO NOT OBSTRUCT CLEARANCE WITH DUCTWORK OR OTHER OBJECTS.
3. ROOF PENETRATIONS FOR GAS PIPING, ELECTRICAL POWER AND CONTROL WIRING SHALL BE MADE USING 'SIGRIST PIPE CHASE HOUSINGS' AS MANUFACTURED BY ALTA PRODUCTS. PROVIDE SUBMITTAL FOR ENGINEERING REVIEW WITH HOUSING CONFIGURED FOR EACH INDIVIDUAL ROOF PENETRATION.
4. RTU 1 & 2 SHALL BE EQUIPPED WITH R/A DUCT MTD. SMOKE DETECTORS. REFER TO SEQUENCE OF OPERATION SECTION 230993.
5. RTU-1 SHALL BE EQUIPPED WITH FACTORY VFDs, ECONOMIZERS AND CONTROLS FOR DEMAND CONTROL VENTILATION.
6. ROOF EQUIPMENT SHALL BE SET NO CLOSER THAN 10' TO THE ROOF EDGE.



1 MECHANICAL ROOF PLAN
SCALE: 1/8" = 1'-0"



2 MECHANICAL PARTIAL ROOF PLAN
SCALE: 1/8" = 1'-0"

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LICENSE EXP. DATE: 03-31-2026

S.E.D. CONTROL NUMBER:
48-06-01-06-0-001-026

PROJECT TITLE
BREWSTER CENTRAL SCHOOL DISTRICT
C.V. STARR INTERMEDIATE SCHOOL
CAFETORIUM ADDITION, INTERIOR RENOVATIONS & SITE WORK
20 FARM TO MARKET ROAD BREWSTER, NY 10509

DRAWING TITLE
ROOF MECHANICAL PLANS

DATE	ISSUED TO
12-09-2024	BID
09-25-2024	ADDENDUM 1
03-05-2024	SED SUBMISSION
11-29-2023	D.D. SUBMISSION
08-31-2023	S.D. SUBMISSION

SHEET SIZE 30"x42"
DRAWING NO. CVS M103
SCALE AS NOTED
DRAWN BY LFG
FILE NO. 23505.02

PLOT DATE: December 02, 2024 - 5:53pm
FILE: N:\Brewster Central Schools\2023 Capital Projects\CV Starr Intermediate School\PACKAGE 2 - Cafetorium\ACAD\Mechanical\CVS PKG2_M-103.dwg

VENTILATION AIR REQUIREMENTS

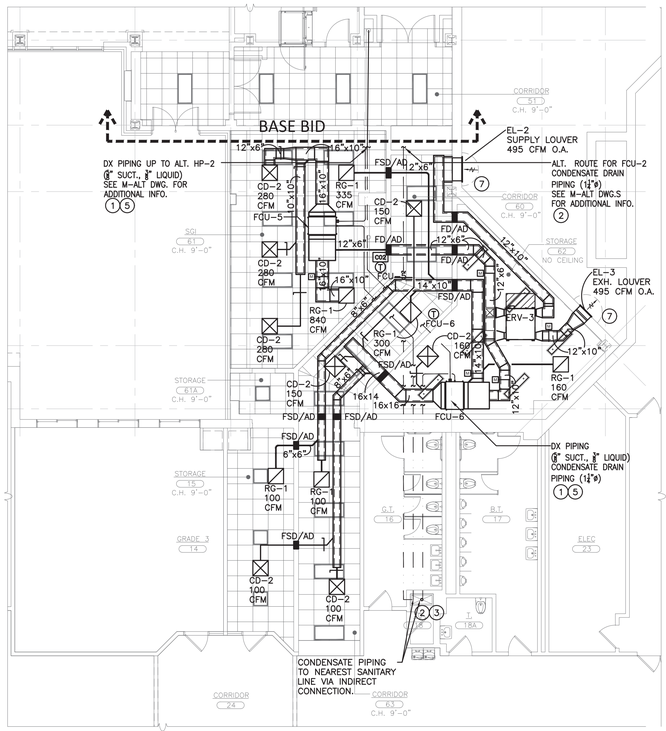
Project:	C.V. STARR INTERMEDIATE SCHOOL			State:	New York	Relevant Code:	IMC 2015		
HVAC ZONE	AREA SERVED	OCCUPANCY CLASSIFICATION	OCCUPANT DENSITY (#/1000 SQFT)	OCCUPANT LOAD Pz (Az)	REQUIRED VENTILATION Rp / Ra	ZONE AIR DIST. EFFECTIVENESS (Ez)	O.A/E.A. REQUIRED (CFM) Vbz	O.A/E.A. DESIGN (CFM)	REMARKS
GROUND FLOOR									
(ALT.#2)	ELEVATOR SHAFT	Elevator car	0	- (45 SF)	1 CFM EXHAUST AIR	0.8	60	60	2, 4
(ALT.#2)	VESTIBULE 70	Corridors	0	- (105 SF)	- CFM/PERSON 0.06 CFM/SF	0.8	8	10	2
	CALCULATED OUTSIDE/MAKEUP AIR FOR SYSTEM TOTAL						68	70	
(ALT.#1) ERV-3 FCU-5	SGI	Classrooms (ages 9 plus)	35	20 (560 SF)	10 CFM/PERSON 0.12 CFM/SF	0.8	334	335	1
(ALT.#1) ERV-3 FCU-6	STORAGE 61A	Storage rooms	0	- (45 SF)	- CFM/PERSON 0.12 CFM/SF	0.8	7	10	1
(ALT.#1) ERV-3 FCU-6	CORRIDOR 60	Corridors	0	- (315 SF)	- CFM/PERSON 0.06 CFM/SF	0.8	24	25	1
(ALT.#1) ERV-3 FCU-6	STORAGE 62	Storage rooms	0	- (420 SF)	- CFM/PERSON 0.12 CFM/SF	0.8	63	65	1
(ALT.#1) ERV-3 FCU-6	STORAGE 15	Storage rooms	0	- (235 SF)	- CFM/PERSON 0.12 CFM/SF	0.8	35	40	1
(ALT.#1) ERV-3 FCU-6	CORRIDOR 63	Corridors	0	- (245 SF)	- CFM/PERSON 0.06 CFM/SF	0.8	18	20	1
	CALCULATED OUTSIDE/MAKEUP AIR FOR SYSTEM TOTAL						147	495	
FIRST FLOOR									
(ALT.#2)	VESTIBULE 182	Corridors	0	- (155 SF)	- CFM/PERSON 0.06 CFM/SF	0.8	12	15	3
	CALCULATED OUTSIDE/MAKEUP AIR FOR SYSTEM TOTAL						12	15	

REMARKS:

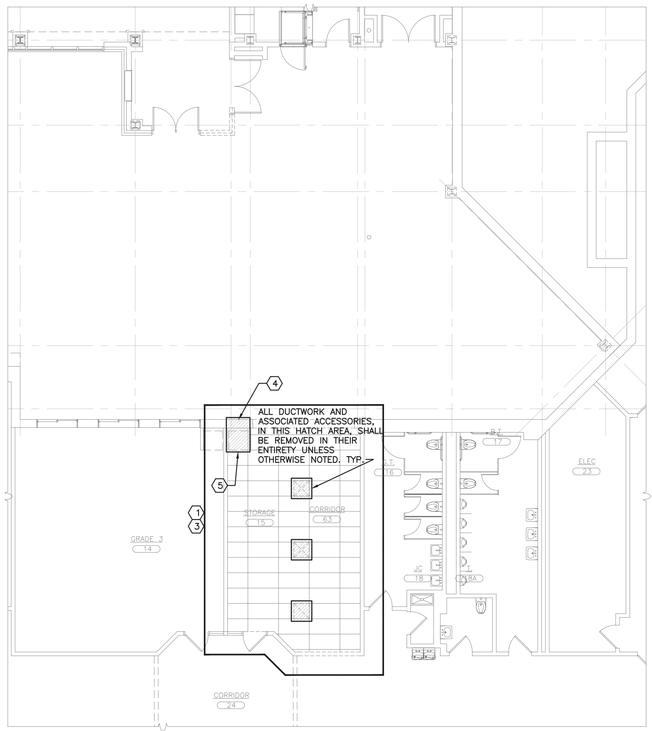
1. OUTSIDE AIR TO BE PROVIDED VIA ENERGY RECOVERY VENTILATOR EQUIPMENT.
2. OUTSIDE AIR TO BE PROVIDED VIA OPENING DOOR(S).
3. OUTSIDE AIR TO BE PROVIDED VIA (E) RTU.
4. OUTSIDE AIR TO BE PROVIDED VIA DEDICATED EXHAUST FAN AT TOP OF HOISTWAY.

MECHANICAL DEMO KEY NOTES:

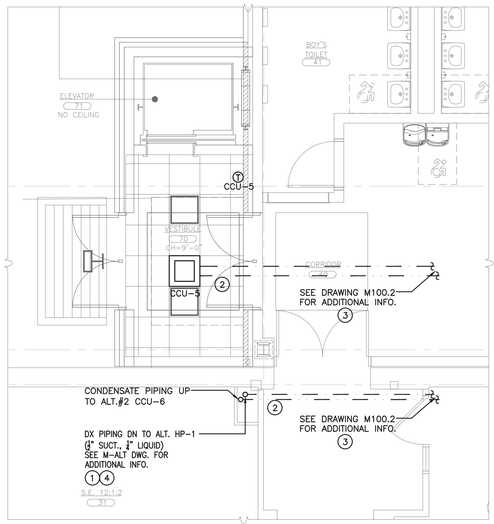
1. DISCONNECT AND REMOVE EXISTING WALL MOUNTED THERMOSTATS.
2. DISCONNECT, REMOVE, ALL SUPPLY AND RETURN AIR DUCTWORK, UNLESS OTHERWISE NOTED. EXISTING SUPPLY AND RETURN AIR DUCTWORK RISERS SHALL BE PRESERVED FOR FOR PROPER INSTALLATION AND CONNECTION TO NEW VAV-BOX SYSTEMS.
3. DISCONNECT, REMOVE, ALL SUPPLY AND RETURN AIR DUCTWORK AND ASSOCIATED EQUIPMENT, UNLESS OTHERWISE NOTED. ASSOCIATED AIR HANDLER SHALL REMAIN IF IT IS PROVEN TO SERVE AREAS OUTSIDE THIS RENOVATION SCOPE OF WORK.
4. REMOVE EXISTING LOUVER AND ASSOCIATED ACCESSORIES IN THEIR ENTIRETY. PATCH AND MATCH REMAINING OPENING AS REQUIRED FOR NEW WORK, SEE ARCH. DWG.S FOR ADDITIONAL INFO.
5. REMOVE EXISTING VERTICAL UNIT VENTILATOR AND ASSOCIATED ACCESSORIES IN THEIR ENTIRETY. PATCH AND MATCH REMAINING OPENING AS REQUIRED FOR NEW WORK, SEE ARCH. DWG.S FOR ADDITIONAL INFO.



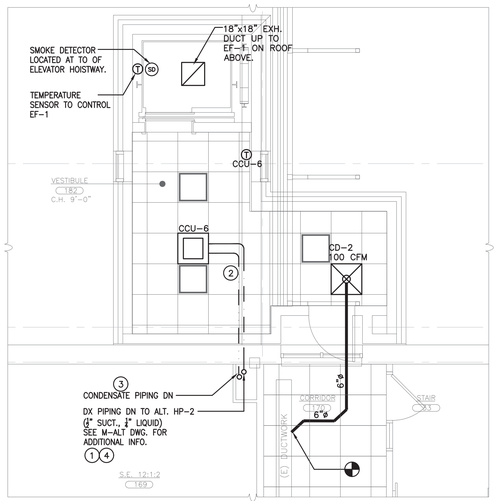
1 PARTIAL GROUND FLOOR RCP - ALT 1
SCALE: 1/8" = 1'-0"



2 PARTIAL GROUND FLOOR REMOVAL PLAN - ALT 1
SCALE: 1/8" = 1'-0"



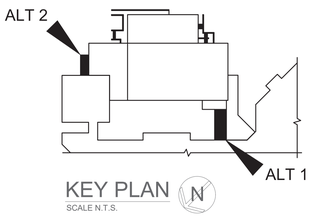
3 GROUND FLOOR RCP - ALT 2
SCALE: 1/4" = 1'-0"



4 FIRST FLOOR RCP - ALT 2
SCALE: 1/4" = 1'-0"

MECHANICAL NEW PIPING WORK NOTES:

1. THE MECHANICAL CONTRACTOR SHALL CONFIRM NEW REFRIGERANT PIPING LENGTHS ARE WITHIN THE MANUFACTURER'S RECOMMENDATIONS, THEN ROUTE ALL REFRIGERANT (I.E. SUCTION, LIQUID, HOT-GAS, ETC.) LINES IN STRICT ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS AND RECOMMENDATIONS. INSULATE ALL PIPING. REFER TO SPECS FOR ADDITIONAL INFO.
2. PITCH CD 1" PER 10 FEET IN DIRECTION OF FLOW. SIZE AS FOLLOWS: 3/4" UP TO 2 TONS. WHERE PITCH IS LESS THAN ABOVE, INCREASE THE ABOVE VALUES ONE PIPE SIZE. PROVIDE INSULATION WITH VAPOR BARRIER. REFER TO SPECS. FOR ADDITIONAL INFORMATION.
3. RUN THE CONDENSATE DOWN TO NEAREST MOP OR LAV SINK PIPING AS INDIRECT SANITARY CONNECTION (REFER TO PLUMBING PLAN FOR DEVICE). RUN PIPING RISER CONCEALED AND SECURE TO THE WALL. INSULATE PIPING CONSISTENT WITH PIPING CONVEYING FLUIDS THAT ARE BELOW AMBIENT TEMPERATURE. PROVIDE WITH A CONTINUOUS VAPOR BARRIER, REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION. TERMINATE DRAIN OVER THE DEVICE AND MAINTAIN A MINIMUM 1" AIR GAP PER CODE.
4. REFRIGERATION PIPING JOINTS/HEADER LOCATED IN CEILING CAVITY; HP-1 UNIT TO BE CONNECTED TO EACH CCU/FCU/WH UNIT VIA PIPING JOINT, PER MANUFACTURER'S RECOMMENDATIONS. FINAL LOCATION OF HP-1 UNIT TO BE DETERMINED IN COORDINATION WITH MANUFACTURER'S PIPE LENGTH LIMITATIONS AS WELL AS THE CLIENT'S PREFERENCE'S. SEE PIPING RISER ON M-202.00 FOR ADDITIONAL INFO.
5. REFRIGERATION PIPING JOINTS/HEADER LOCATED IN CEILING CAVITY; HP-2 UNIT TO BE CONNECTED TO EACH FCU/WH UNIT VIA PIPING JOINT, PER MANUFACTURER'S RECOMMENDATIONS. FINAL LOCATION OF HP-2 UNIT TO BE DETERMINED IN COORDINATION WITH MANUFACTURER'S PIPE LENGTH LIMITATIONS AS WELL AS THE CLIENT'S PREFERENCE'S. SEE PIPING RISER ON M-202.00 FOR ADDITIONAL INFO.
6. REFRIGERATION PIPING SHALL BE ROUTED THROUGH THE ROOF AS NEEDED FOR PROPER CONNECTION TO CCU/FCU/WH UNIT.
7. AREA WELL REQUIRED FOR LOUVER INSTALLATION, SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.



KEY PLAN N
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LICENSE EXP. DATE: 03-31-2026

S.E.D. CONTROL NUMBER:
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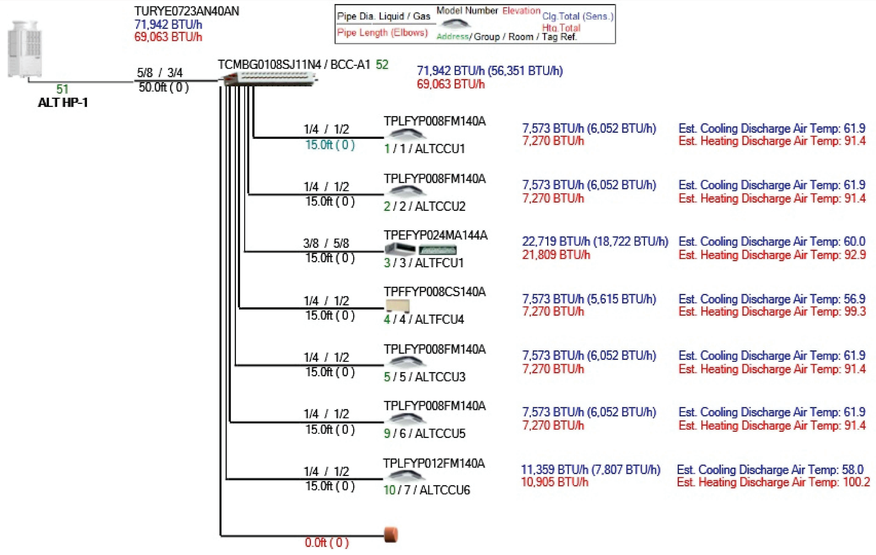
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MECHANICAL ALTERNATE REFLECTED CEILING PLANS

12-09-2024	BID
09-25-2024	ADDENDUM 1
03-05-2024	SED SUBMISSION
11-29-2023	D.D. SUBMISSION
08-31-2023	S.D. SUBMISSION
DATE	ISSUED TO

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SCALE AS NOTED	
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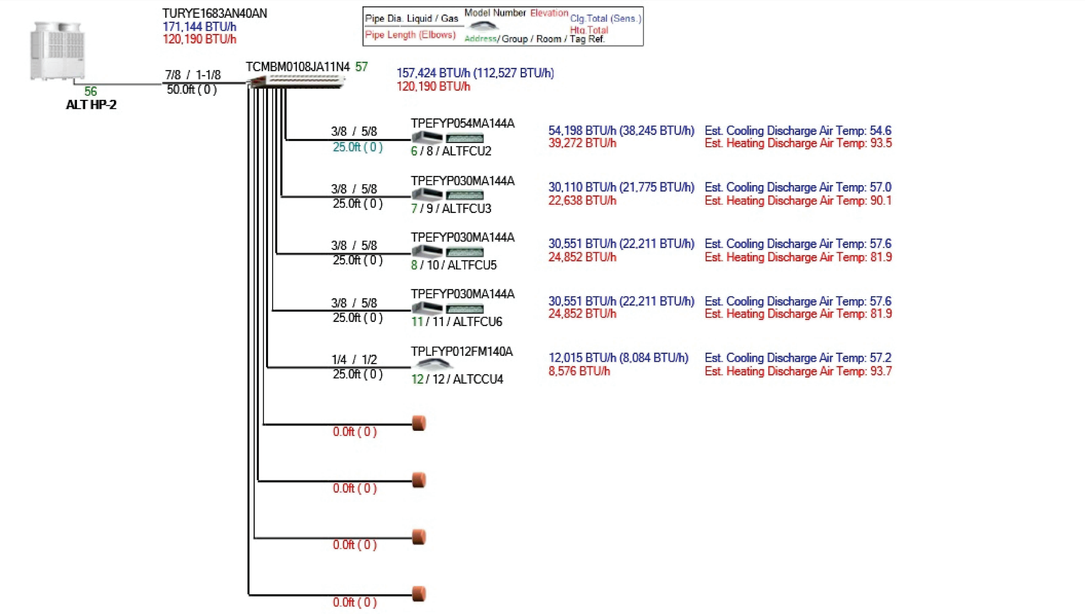
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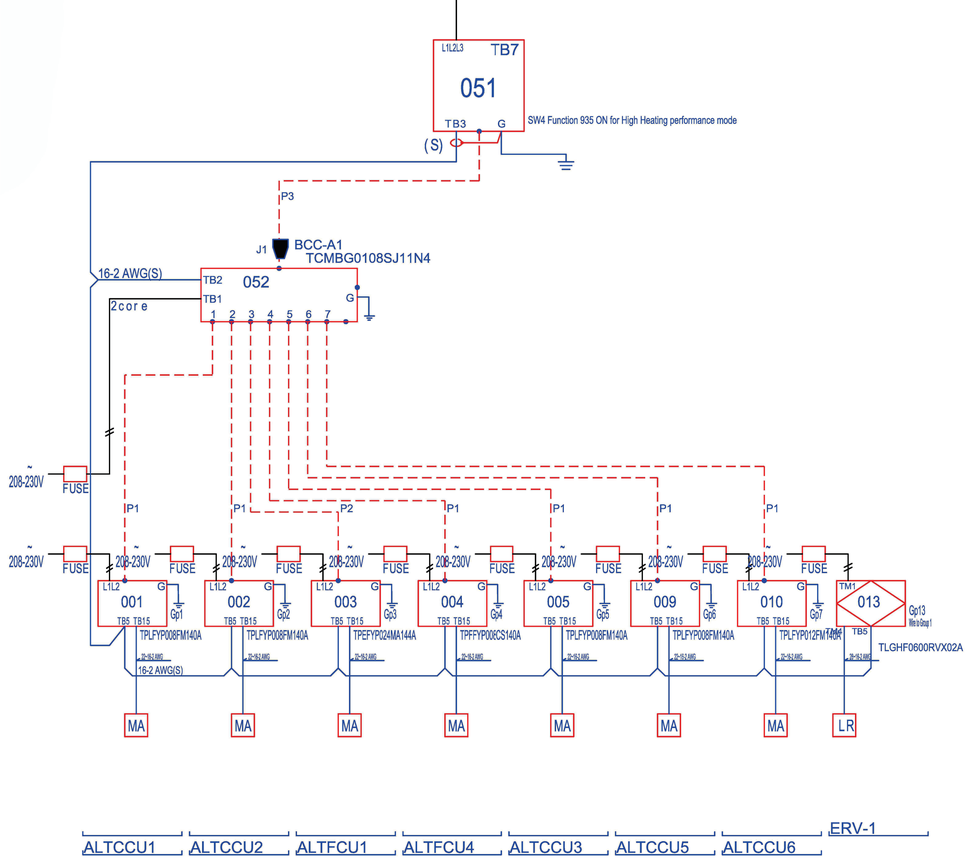
ALT. VRF SYSTEM (HP–1) PIPING RISER DIAGRAM

NOT TO SCALE



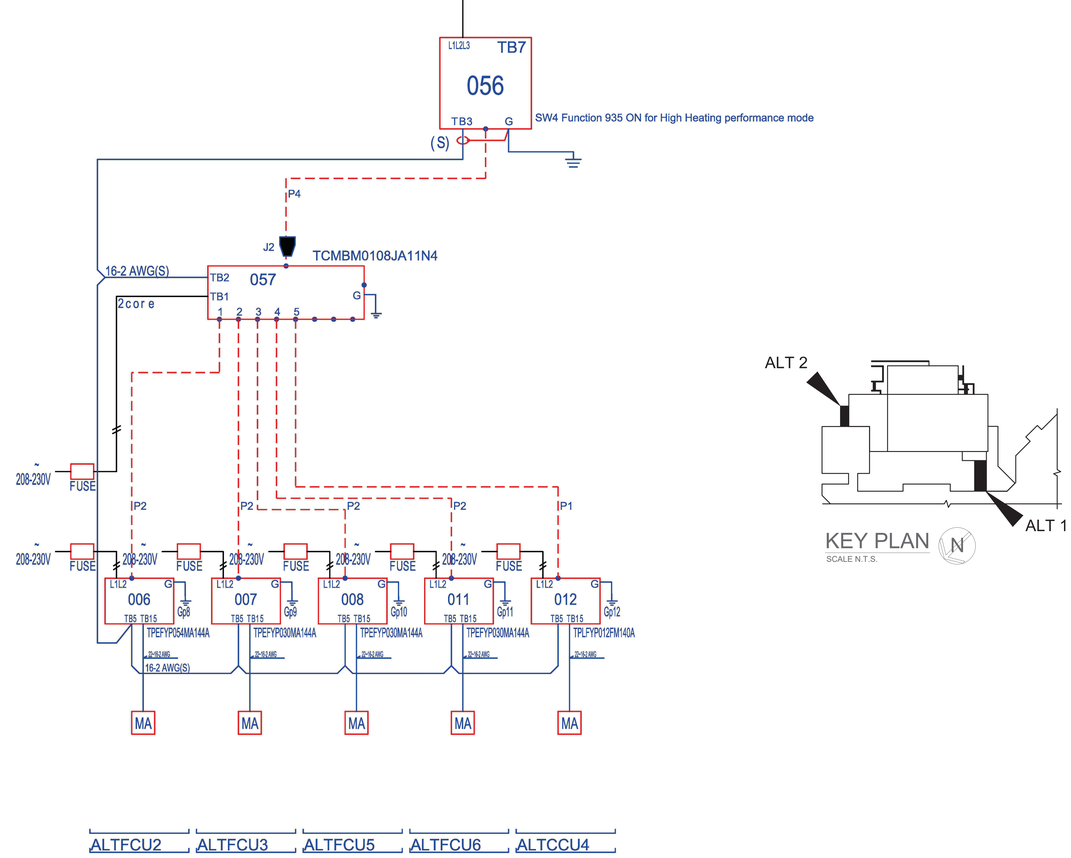
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NOT TO SCALE



ALT. VRF SYSTEM (HP–1) WIRING DIAGRAM

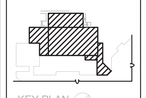
NOT TO SCALE



ALT. VRF SYSTEM (HP–2) WIRING DIAGRAM

NOT TO SCALE

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LICENSE EXP. DATE: 03-31-2026

S.E.D. CONTROL NUMBER:
48-06-01-06-0-001-026

PROJECT TITLE
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C.V. STARR INTERMEDIATE SCHOOL
CAFETORIUM ADDITION, INTERIOR RENOVATIONS & RELATED WORK
20 FARM TO MARKET ROAD BREWSTER, NY 10509

DRAWING TITLE
MECHANICAL ALTERNATE
REFLECTED CEILING PLANS

DATE	ISSUED TO
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11-29-2023	D.D. SUBMISSION
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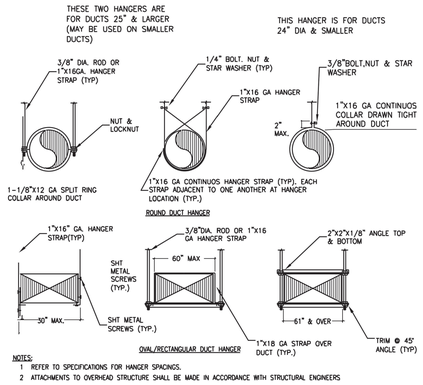
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PLOT DATE: December 02, 2024 - 5:53pm

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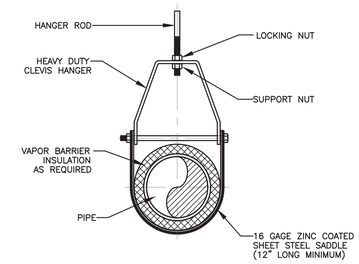
MINIMUM HANGER SIZES FOR ROUND DUCT (SMACNA)				
DIA. (IN)	MAXIMUM SPACING	WIRE DIA.	ROD	STRAP
6-10	12'	ONE 12 GA.	1/4"	1" X 22 GA.
11-18	12'	TWO 12 GA. OR ONE 8 GA.	1/4"	1" X 22 GA.
19-24	12'	TWO 10 GA.	1/4"	1" X 22 GA.

SINGLE HANGER MAX LOAD			
STRAP	WIRE OR ROD		
1" X 22 GA. - 260 LBS	(12 GA.)	0.106"	80 LBS
1" X 20 GA. - 260 LBS	(10 GA.)	0.135"	80 LBS
1" X 18 GA. - 420 LBS		0.162"	160 LBS
1" X 16 GA. - 700 LBS		1/4"	270 LBS
1-1/2" X 16 GA. - 1100 LBS		3/8"	680 LBS



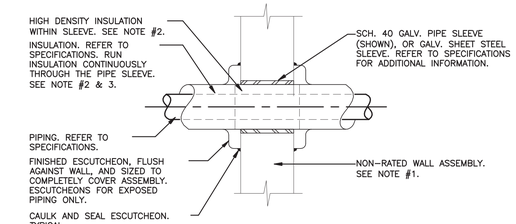
NOTES:
1 REFER TO SPECIFICATIONS FOR HANGER SPACINGS.
2 ATTACHMENTS TO OVERHEAD STRUCTURE SHALL BE MADE IN ACCORDANCE WITH STRUCTURAL ENGINEERS

DUCT SUPPORT DETAIL
NO SCALE



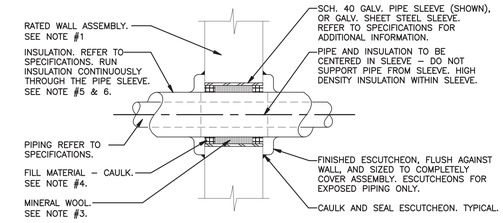
HANGER ROD SCHEDULE			
PIPE SIZE	ROD SIZE	PIPE SIZE	ROD SIZE
UP TO 2"	3/8" DIA.	4" THRU 5"	5/8" DIA.
2 1/2" THRU 3"	1/2" DIA.	6" THRU 12"	7/8" DIA.

CLEVIS HANGER
HORIZONTAL RUNS



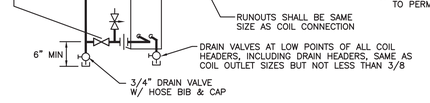
NOTES:
1. REFER TO THE ARCHITECTURAL AND STRUCTURAL DOCUMENTS FOR WALL ASSEMBLY CONSTRUCTION.
2. WHERE FLUID CONVEYED THROUGH PIPING IS BELOW AMBIENT TEMP. ALL SEAMS AND JOINTS IN THE INSULATION SHALL BE SEALED TO ENSURE A CONTINUOUS VAPOR BARRIER. REFER TO SPECIFICATIONS.
3. WHERE PIPING IS REQUIRED TO BE INSULATED, PROVIDE MAX 2 IN. THICK HOLLOW CYLINDRICAL HEAVY DENSITY (MIN 3.5 PCF) GLASS FIBER UNITS, JACKETED ON THE OUTSIDE WITH AN ALL-SERVICE JACKET. LONGITUDINAL JOINTS SEALED WITH FACTORY APPLIED SELF-SEALING LAP TAPE. TRANSVERSE JOINTS SECURED WITH BUTT TAPE SUPPLIED WITH THE PRODUCT. THE PIPE COVERING SHALL MEET THE ABOVE CRITERIA AND BEAR THE UL CLASSIFICATION MARKING WITH A FLAME SPREAD AND SMOKE DEVELOPED INDEX AS NOTED IN THE SPECIFICATIONS.
4. PIPING SHALL BE SUPPORTED ON EITHER SIDE OF WALL. PIPE SUPPORTS SHALL BE COMPLETELY INDEPENDENT OF WALL.

PIPING PENETRATIONS AT INTERIOR NON-RATED WALLS
NO SCALE



NOTES:
1. REFER TO THE ARCHITECTURAL AND STRUCTURAL DOCUMENTS FOR WALL ASSEMBLY CONSTRUCTION.
2. BASED ON THE WALL ASSEMBLY AND ITS RATING, THE MECHANICAL CONTRACTOR SHALL COORDINATE THE FIRE STOP SYSTEM REQUIREMENTS IN STRICT ACCORDANCE WITH THE UL FIRE RESISTANCE DIRECTORY. REFER TO SPECIFICATIONS, DIVISION 7, FOR ADDITIONAL INFORMATION.
3. MIN. 4 PCF MINERAL WOOL BATT INSULATION FIRMLY PACKED INTO OPENING AS A PERMANENT FORM.THICKNESS IS BASED ON ASSEMBLY RATING. REFER TO NOTE #2. PACKING MATERIAL TO BE RECESSED FROM BOTH SURFACES OF WALL AS REQUIRED TO ACCOMMODATE THE REQUIRED THICKNESS OF FILL MATERIAL.
4. MIN 1 IN. THICKNESS OF FILL MATERIAL APPLIED WITHIN THE ANNULUS, FLUSH WITH BOTH ENDS OF STEEL WHEN SLEEVE PROJECTS BEYOND SURFACE OF WALL, A BEAD OF CAULK SHALL BE APPLIED TO OUTER PERIMETER OF SLEEVE AT INTERFACE WITH WALL SURFACES. COORDINATE THICKNESS OF BEAD TO SUIT THE FIRE STOP SYSTEM REQUIRED FOR THE ASSEMBLY BEING PENETRATED. REFER TO NOTE #2.
5. WHERE FLUID CONVEYED THROUGH PIPING IS BELOW AMBIENT TEMP. ALL SEAMS AND JOINTS IN THE INSULATION SHALL BE SEALED TO ENSURE A CONTINUOUS VAPOR BARRIER. REFER TO SPECIFICATIONS.
6. WHERE PIPING IS REQUIRED TO BE INSULATED, PROVIDE MAX 2 IN. THICK HOLLOW CYLINDRICAL HEAVY DENSITY (MIN 3.5 PCF) GLASS FIBER UNITS, JACKETED ON THE OUTSIDE WITH AN ALL-SERVICE JACKET. LONGITUDINAL JOINTS SEALED WITH FACTORY APPLIED SELF-SEALING LAP TAPE. TRANSVERSE JOINTS SECURED WITH BUTT TAPE SUPPLIED WITH THE PRODUCT. THE ANNULAR SPACE BETWEEN THE PENETRATING ITEM AND THE PERIPHERY OF THE OPENING SHALL BE MIN 1/4 IN. TO MAX 2 IN. THE PIPE COVERING SHALL MEET THE ABOVE CRITERIA AND BEAR THE UL CLASSIFICATION MARKING WITH A FLAME SPREAD AND SMOKE DEVELOPED INDEX AS NOTED IN THE SPECIFICATIONS.
7. PIPING SHALL BE SUPPORTED ON EITHER SIDE OF WALL. PIPE SUPPORTS SHALL BE COMPLETELY INDEPENDENT OF WALL.

PIPING PENETRATIONS AT INTERIOR RATED WALLS
NO SCALE



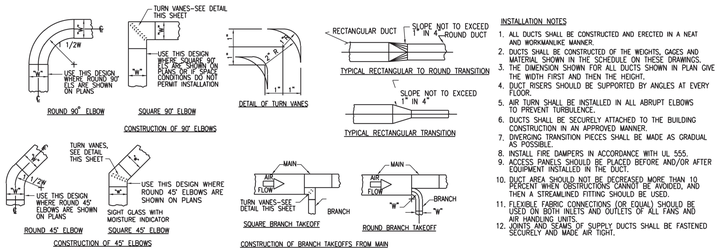
NOTES:
1. ON LINES 2" AND SMALLER, LOCATE THERMOMETER WELLS IN PIPE ELBOW.
2. LOCATE PIPE UNIONS AND ARRANGE PIPING TO FACILITATE COIL REMOVAL.
3. UNIONS (OR FLANGED BODY) REQUIRED TO PERMIT REMOVAL OF CONTROL VALVE

CHILLED/HOT WATER COIL CONNECTION DETAIL
NO SCALE

DUCT CONSTRUCTION MINIMUM SHEET METAL THICKNESSES		
RECTANGULAR DUCTS		
MAXIMUM SIZE (INCHES)	STEEL (MINIMUM THICKNESS, NOMINAL)	ALUMINUM (MINIMUM THICKNESS, NOMINAL)
THROUGH 12	0.022 INCH (26 GAGE, GALV.)	0.020 INCH (NO. 24 B&S GAGE)
13 THROUGH 30	0.028 INCH (24 GAGE, GALV.)	0.025 INCH (NO. 22 B&S GAGE)
31 THROUGH 54	0.034 INCH (22 GAGE, GALV.)	0.032 INCH (NO. 20 B&S GAGE)
55 THROUGH 84	0.040 INCH (20 GAGE, GALV.)	0.040 INCH (NO. 18 B&S GAGE)
OVER 84	0.052 INCH (18 GAGE, GALV.)	0.051 INCH (NO. 16 B&S GAGE)

ROUND DUCTS			
	SPIRAL SEAM DUCT	LONGTUDINAL SEAM DUCT	FITTINGS
MAXIMUM SIZE (INCHES)	STEEL (MINIMUM THICKNESS, NOMINAL)	STEEL (MINIMUM THICKNESS, NOMINAL)	STEEL (MINIMUM THICKNESS, NOMINAL)
THROUGH 12	0.019 INCH (28 GAGE, GALV.)	0.022 INCH (26 GAGE, GALV.)	0.022 INCH (26 GAGE, GALV.)
13 THROUGH 18	0.022 INCH (26 GAGE, GALV.)	0.028 INCH (24 GAGE, GALV.)	0.028 INCH (24 GAGE, GALV.)
19 THROUGH 28	0.028 INCH (24 GAGE, GALV.)	0.034 INCH (22 GAGE, GALV.)	0.034 INCH (22 GAGE, GALV.)
29 THROUGH 36	0.034 INCH (22 GAGE, GALV.)	0.040 INCH (20 GAGE, GALV.)	0.040 INCH (20 GAGE, GALV.)
37 THROUGH 52	0.040 INCH (20 GAGE, GALV.)	0.052 INCH (18 GAGE, GALV.)	0.052 INCH (18 GAGE, GALV.)

DUCT CONSTRUCTION
NO SCALE



INSTALLATION NOTES
1. ALL DUCTS SHALL BE CONSTRUCTED AND ERECTED IN A NEAT AND WORKMANLIKE MANNER.
2. DUCTS SHALL BE CONSTRUCTED OF THE WEIGHTS, GAGES AND MATERIAL SHOWN IN THE SCHEDULE ON THESE DRAWINGS.
3. THE DIMENSION SHOWN FOR ALL DUCTS SHOWN IN PLAN GIVE THE WIDTH FIRST AND THEN THE HEIGHT.
4. DUCT RISERS SHOULD BE SUPPORTED BY ANGLES AT EVERY FLOOR.
5. AIR TURN SHALL BE INSTALLED IN ALL ABRUPT ELBOWS TO PREVENT TURBULENCE.
6. DUCTS SHALL BE SECURELY ATTACHED TO THE BUILDING CONSTRUCTION IN AN APPROVED MANNER.
7. DIVERGING TRANSITION PIECES SHALL BE MADE AS GRADUAL AS POSSIBLE.
8. INSTALL FIRE DAMPERS IN ACCORDANCE WITH UL 555.
9. ACCESS PANELS SHOULD BE PLACED BEFORE AND/OR AFTER EQUIPMENT INSTALLED IN THE DUCT.
10. DUCT AREA SHOULD NOT BE DECREASED MORE THAN 10 PERCENT WHEN OBSTRUCTIONS CANNOT BE AVOIDED, AND THEN A STREAMLINED FITTING SHOULD BE USED.
11. FLEXIBLE FABRIC CONNECTIONS (OR EQUAL) SHOULD BE USED ON BOTH INLETS AND OUTLETS OF ALL FANS AND AIR HANDLING UNITS.
12. JOINTS AND SEAMS OF SUPPLY DUCTS SHALL BE FASTENED SECURELY AND MADE AIR TIGHT.

DUCT CONSTRUCTION DETAILS
NO SCALE

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LICENSE EXP. DATE: 03-31-2026

S.E.D. CONTROL NUMBER:
48-06-01-06-0-001-026

PROJECT TITLE
BREWSTER CENTRAL SCHOOL DISTRICT
C.V. STARR INTERMEDIATE SCHOOL
RENOVATION/ADDITION, INTERIOR CAFETORIUM ADDITION, EXTERIOR
207 FARM TO MARKET ROAD BREWSTER, NY 10509

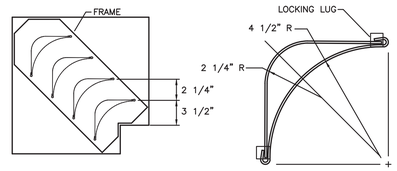
DRAWING TITLE
MECHANICAL DETAILS

12-09-2024	BID
09-25-2024	ADDENDUM 1
03-05-2024	SED SUBMISSION
11-29-2023	D.D. SUBMISSION
08-31-2023	S.D. SUBMISSION
DATE	ISSUED TO

SHEET SIZE 30"x42" | DRAWING NO. CVS M200
SCALE AS NOTED
DRAWN BY LFG | FILE NO. 23505.02

PLOT DATE: December 02, 2024 - 5:53pm

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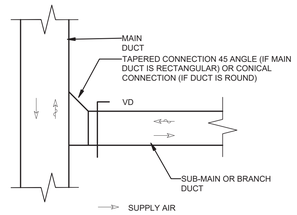


VANED ELBOW

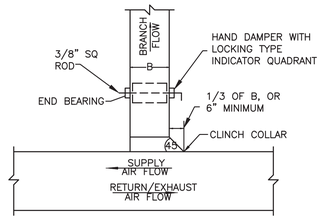
TURNING VANE

NOTES:
1. LOCKING LUGS INTEGRAL WITH VANE
2. MAXIMUM UNSUPPORTED VANE LENGTH 48"
3. FRAMES–BOLTED OR RIVETED TO ELBOW
4. VANES AND FRAMES–SAME GAUGE AS ELBOW

DOUBLE THICKNESS TURNING VANES FOR SQUARE ELBOW
NO SCALE



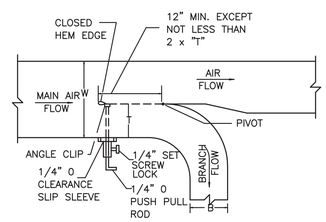
BRANCH TAKE–OFF DUCTWORK DETAIL
NO SCALE



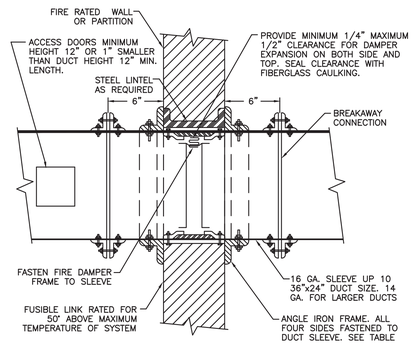
NOTES:
1. FURNISH THIS TYPE CONNECTION WHEN SUPPLY AIR FLOW IS LESS THAN 700 CFM
2. FURNISH THIS TYPE CONNECTION FOR ALL RETURN BRANCH CONNECTIONS

RECTANGULAR DUCT BRANCH DETAIL
NO SCALE

NOTES:
1. FURNISH THIS TYPE CONNECTION WHEN MAIN AIR FLOW IS GREATER THAN 700 CFM
2. $T = \frac{CFM\ (B)}{CFM\ (W)} \times W$ (MINIMUM 4")



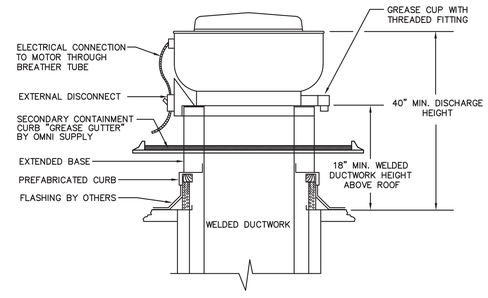
SUPPLY DUCT BRANCH WITH THROAT & SPLITTER DAMPER
NO SCALE



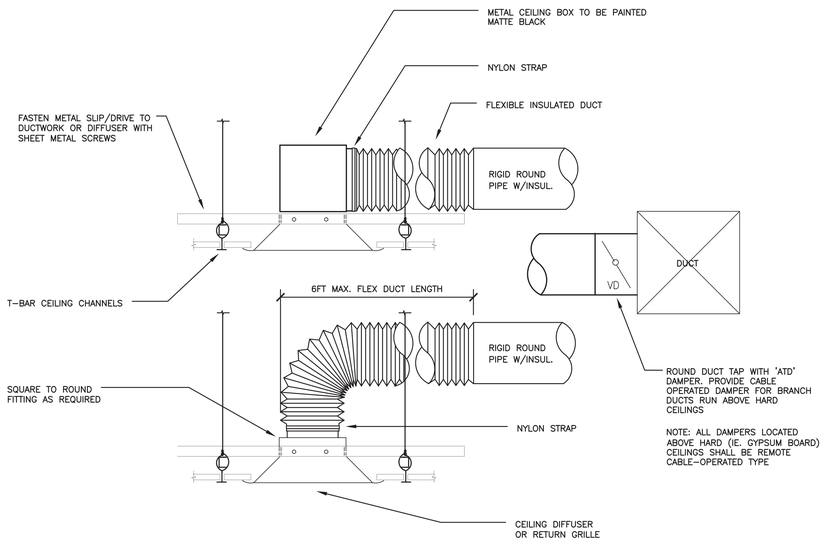
ANGLE IRON TABLE	
WALL OPENING	ANGLE SIZE
UP TO 30"	1"x1"x1/8"
31" TO 54"	1 1/2"x1 1/2"x1/8"
55" TO 84"	3"x2"x3/16"
85" TO 120"	3"x2"x3/16"

GENERAL NOTES
1. FIRE DAMPER TO BE U.L. LABELED N.F.P.A. 90 A.
2. N.F.P.A. APPROVED INSTALLATION DETAILS TO BE PART OF SUBMISSION OF FIRE DAMPER FOR APPROVAL WHICH SHALL MEET N.F.P.A. STANDARD 90 A.
3. DETAILS SHOWN ARE FOR FIRE DAMPERS IN HORIZONTAL DUCTWORK. FOR FIRE DAMPERS IN VERTICAL DUCTWORK, DETAILS SIMILAR EXCEPT SHALL BE SPRING LOADED
4. U.L. APPROVED BREAKAWAY SLIP JOINT CONNECTION MAY BE USED IN LIEU OF FLANGED CONNECTION
5. ACCESS DOOR IS SHOWN ON SIDE OF DUCT. IF FUSABLE LINK IS MORE ACCESSIBLE FROM BOTTOM OF DUCT RELOCATE ACCESS DOOR.
6. FROM FIRST 10'–0" OF FAN DISCHARGE DUCTS AND FOR DUCT SIZES LESS THAN 8" DEEP FIRE DAMPER BLADES SHALL BE INSTALLED IN POCKET OUTSIDE OF AIR STREAM
7. ALL FIRE DAMPERS TO BE LOCATED OUT OF AIR STREAM.

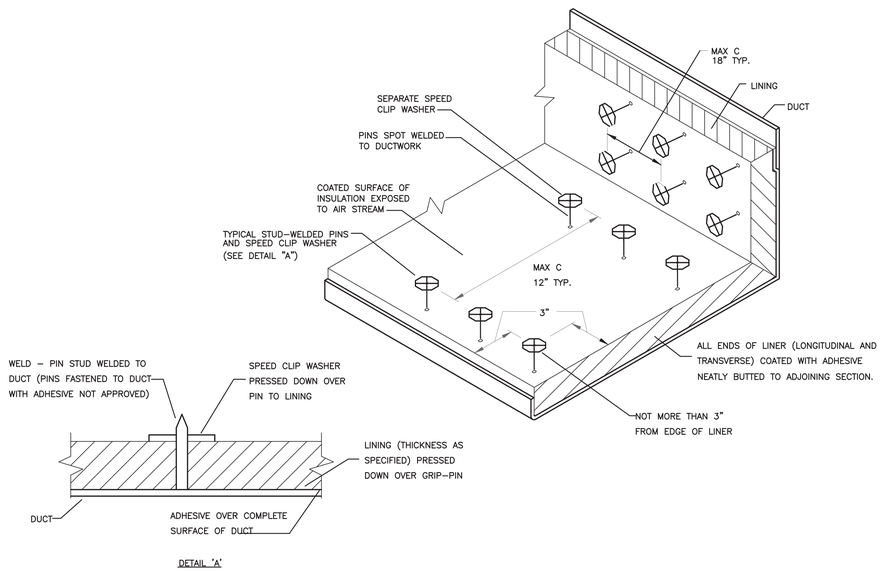
LOW PRESSURE FIRE DAMPER DETAIL
NO SCALE



ROOF KITCEN EXHAUST FAN DETAIL
NO SCALE

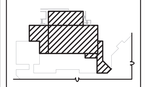


BRANCH DUCT DETAIL
NOT TO SCALE



SOUND LINING INSTALLATION DETAIL
NO SCALE

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LICENSE EXP. DATE: 03-31-2026

S.E.D. CONTROL NUMBER:
48-06-01-06-0-001-026

PROJECT TITLE:
BREWSTER CENTRAL SCHOOL DISTRICT
C.V. STARR INTERMEDIATE SCHOOL
CAFETORIUM ADDITION, INTERIOR RENOVATIONS AND SITE WORK
20 FARM TO MARKET ROAD BREWSTER, NY 10509

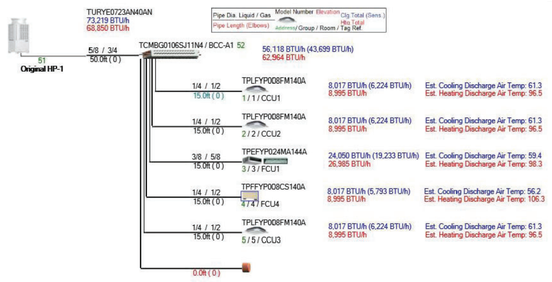
DRAWING TITLE:
MECHANICAL DETAILS

DATE	ISSUED TO
12-09-2024	BID
09-25-2024	ADDENDUM 1
03-05-2024	SED SUBMISSION
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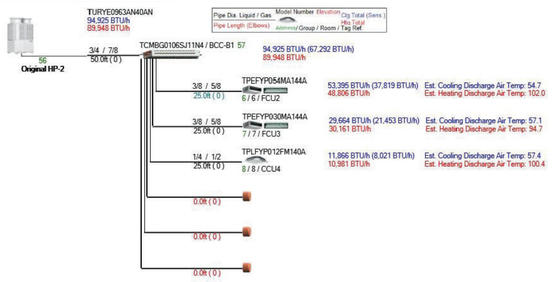
SHEET SIZE: 30"x42"
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SCALE: AS NOTED
DRAWN BY: LFG
FILE NO.: 23505.02

PLOT DATE: December 02, 2024 - 5:53pm

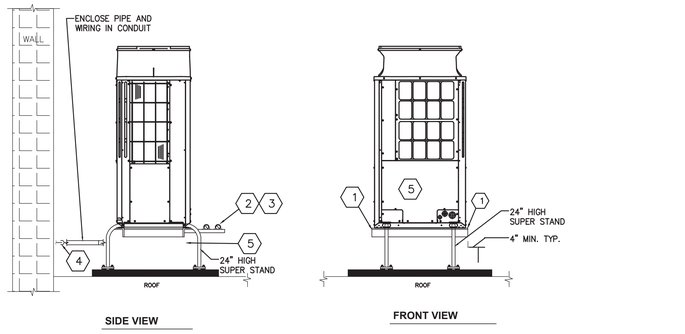
FILE: N:\Brewster Central Schools\2023 Capital Projects\CV Starr Intermediate School\PACKAGE 2 – Cafetorium\ACAD\Mechanical\CVS PKG2_M–200_201_202_203.dwg



VRF SYSTEM (HP–1) PIPING RISER DIAGRAM
NOT TO SCALE



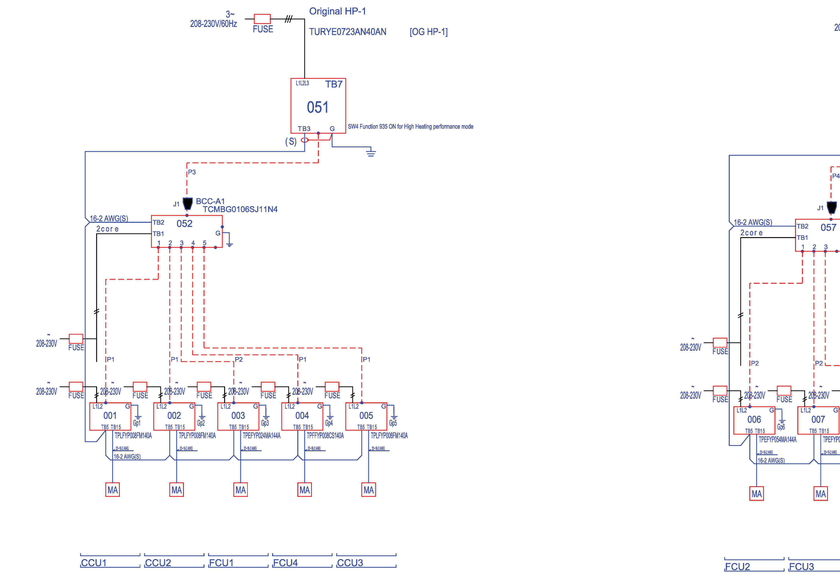
VRF SYSTEM (HP–2) PIPING RISER DIAGRAM
NOT TO SCALE



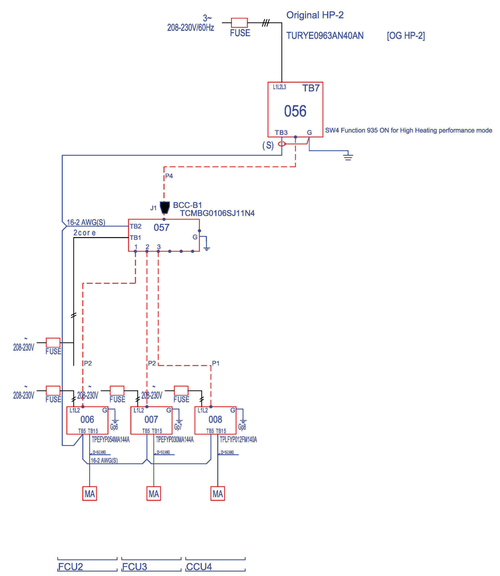
CODED NOTES:

1. ENSURE CROSS MEMBERS OF BOTTOM SUPPORT FRAME ARE NOT DIRECTLY BELOW ENDS OF MODULES IN ALL LOCATIONS AND DO NOT BLOCK DRAINAGE WEEP HOLES IN BOTTOM OF UNIT CASING, FAILURE TO DO THIS MAY RESULT IN ICE DAMMING/BUILDUP BENEATH UNIT AND SUBSEQUENT BUILDUP OF ICE IN BOTTOM OF UNIT CASING BELOW COIL AND POTENTIAL DAMAGE TO BOTTOM OF COIL.
2. SUPPORT LATERAL PIPE EMANATING FROM VRF UNIT CONNECTIONS BY CROSS MEMBER SUPPORT THAT IS ATTACHED DIRECTLY TO SUPER STANDS.
3. USE NEOPRENE ISOLATION COLLARS ON PIPE CLAMPS WHEN FASTENING PIPING TO SUPPORTS.
4. USE LONG RADIUS SWEEPING COPPER ACR TUBE PIPE BENDS WHERE PIPE ENTERS GROUND AT FIRST ELBOW INTO CEILING SPACE TO MINIMIZE REFRIGERANT FLOW NOISE AND VIBRATION.
5. ALL ELECTRICAL AND CONTROL CONNECTIONS TO UNITS TO BE VIA FLEXIBLE CONDUIT.

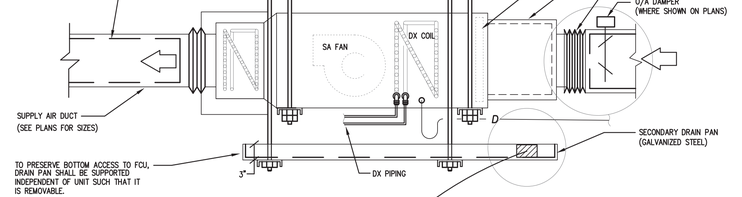
ROOF MOUNTED AIR COOLED HEAT–PUMP UNIT DETAIL
NO SCALE



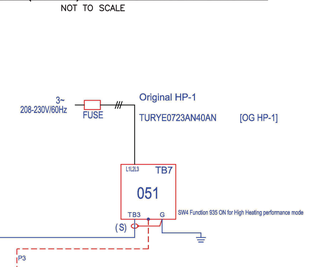
VRF SYSTEM (HP–1) WIRING DIAGRAM
NOT TO SCALE



VRF SYSTEM (HP–2) WIRING DIAGRAM
NOT TO SCALE



HORIZONTAL FAN COIL UNIT DETAIL
NOT TO SCALE

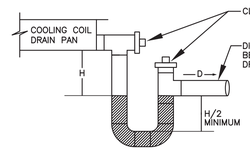


ISOMETRIC

NOTE:
1. SIGRIST TUBING CHASE HOUSING BY ALTA. VERIFY CURB OPENING SIZE WITH MANUFACTURER. SEE ROOFTOP PLAN FOR LOCATION AND FURTHER INFORMATION.
2. PIPE PORTAL SHALL BE SUPPLIED BY THE MECHANICAL CONTRACTOR AND INSTALLED BY GENERAL CONTRACTOR. 1

ITEM NO.	NOMENCLATURE	PART NUMBER	QTY.
1	MEDIUM HOUSING	AL–201412	1
2	MEDIUM CURB 14" TALL	AL–1014C	1
3	SIGRIST EXIT SEAL	N/A	16

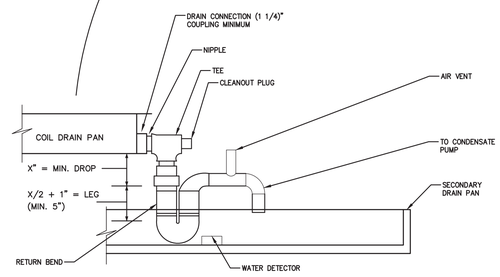
PIPE PORTAL DETAIL
NO SCALE



H = FAN INLET PRESSURE (IN. W.C.) + 1 IN.

NOTES:
1. ALLOW SUFFICIENT SPACE BELOW DRAIN PAN FOR TRAP.
2. PITCH DRAIN FOR PROPER RUN–OFF.
3. MANUALLY PRIME FILL TRAP BEFORE START–UP TO FORM INITIAL DRAIN SEAL.
4. SUPPORT LENGTHY DRAIN LINES TO PREVENT SAG AND CONDENSATE OVERFLOW.
5. ALL AIR HANDLERS ARE TO HAVE TWO DRAIN PAN OUTLETS AND TRAPS CONNECTING TO A COMMON DRAIN LINE.

CONDENSATE TRAP DETAIL DRAW–THRU UNIT
NO SCALE



X = NEGATIVE INTERNAL STATIC PRESSURE AT FAN INLET

NOTES:
1. ALLOW SUFFICIENT SPACE BELOW DRAIN PAN FOR TRAP.
2. PITCH DRAIN FOR PROPER RUN–OFF
3. MANUALLY PRIME FILL TRAP BEFORE START–UP TO FORM INITIAL DRAIN SEAL.
4. SUPPORT LENGTHY DRAIN LINES TO PREVENT SAG AND CONDENSATE OVERFLOW.
5. MIN. CONDENSATE DRAIN LINE SHALL BE 1–1/4".
6. SHEET METAL SECONDARY DRAIN PAN WITH WELDED CORNERS TO BE PROVIDED BY MECHANICAL CONTRACTOR PROVIDE SENSOR SWITCH IN PAN INTERLOCKED WITH FCU AND ALARM

DRAIN PAN WATER SEAL PIPING
NO SCALE

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C.V. STARR INTERMEDIATE SCHOOL
CAFETORIUM ADDITION INTERIOR
RENOVATIONS AS A2 ISSUE
20 FARM TO MARKET ROAD BREWSTER, NY 10509

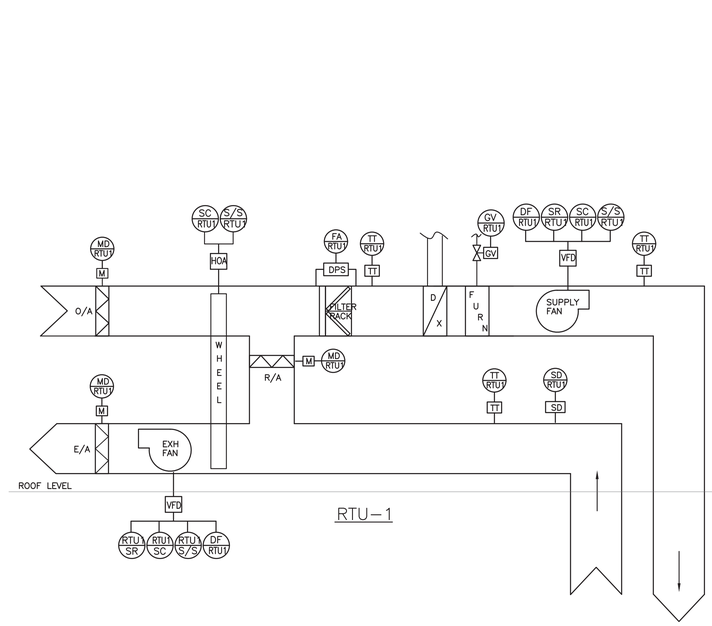
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MECHANICAL DETAILS

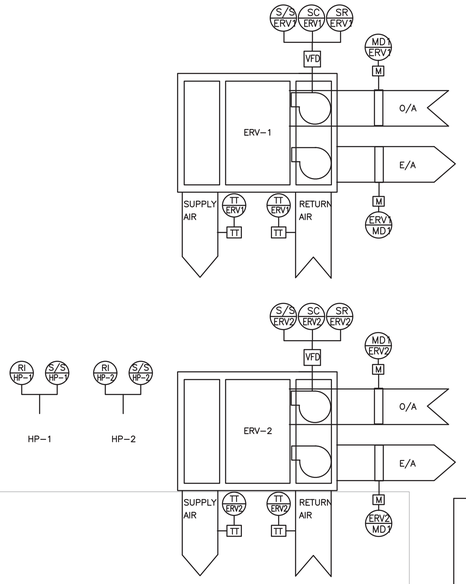
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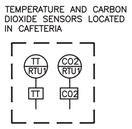
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DRAWING NO. CVS M202
SCALE AS NOTED
DRAWN BY LFG
FILE NO. 23505.02

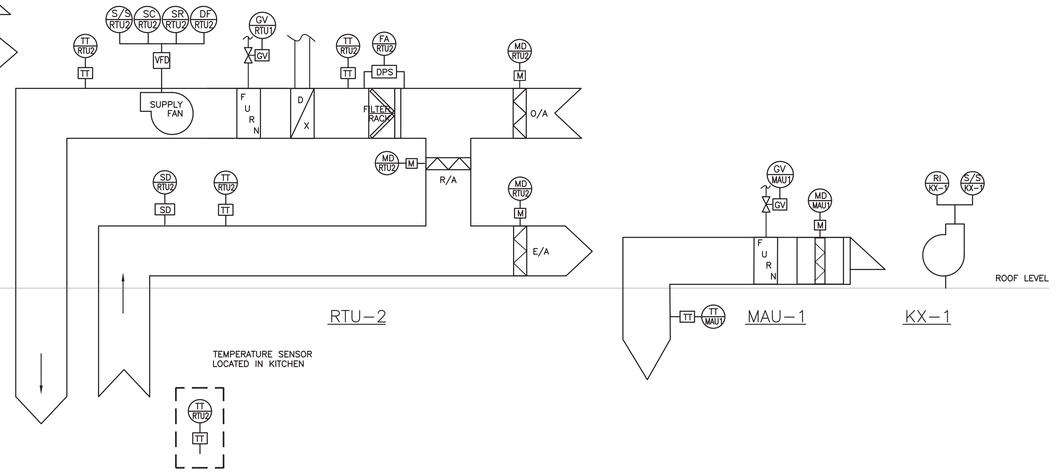
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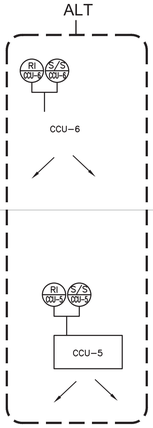
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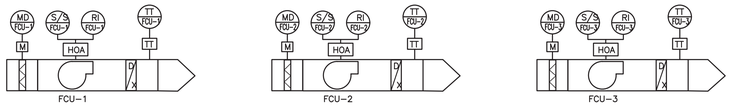


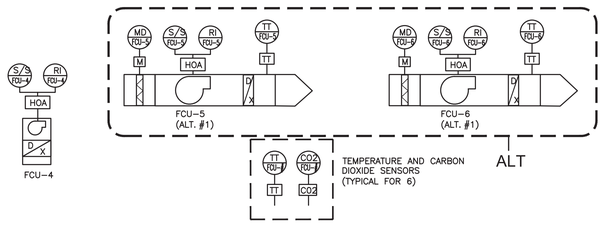


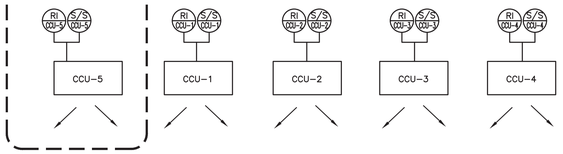


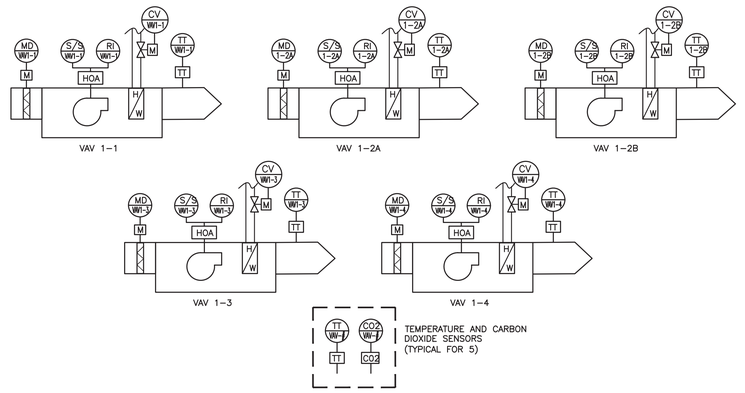


FIRST FLOOR LEVEL









GROUND FLOOR LEVEL

MECHANICAL CONTROL SCHEMATIC

NOT TO SCALE

NOTES

1. REFER TO SPECIFICATION SECTION 230933 FOR ADDITIONAL INFORMATION.

2. ALL POINTS SHOWN ON DIAGRAM SHALL BE MONITORED AND DISPLAYED AT GRAPHICAL USER INTERFACE (GUI). ALL POINTS SHALL BE CONFIGURED TO GENERATE ALARM AT USER INTERFACE WHEN VALUE IS OUTSIDE RANGE OR IF FAN, DAMPER, ETC FAILS TO RESPOND.

3. IF COMPRESSOR STATUS IS AVAILABLE AT FACTORY CONTROLLER, THIS INFO SHALL BE MONITORED AND DISPLAYED AT GUI.

4. FACTORY CONTROLS FOR VRF EQUIPMENT SHALL BE INTEGRATED INTO BMS. PROVIDE ALL REQUIRED HARDWARE INCLUDING BACNET GATEWAYS FOR MONITORING AND CONTROL.

5. THE MINIMUM VOLUMETRIC FLOW RATE OF OUTSIDE AIR FOR THE CAFETORIUM (RTU–1) SHALL BE AT LEAST TWENTY PERCENT OF VOLUMETRIC FLOW RATE OF OUTSIDE AIR FRO THE MAXIMUM OCCUPANT LOAD OF THE SPACE.

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KEY PLAN

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LFG LANDMARK FACILITIES GROUP, INC.
252 East Avenue Norwalk, CT 06855 (203) 866-6644 (203) 866-8019 Fax

LICENSE EXP. DATE: 03-31-2026

S.E.D. CONTROL NUMBER:
48-05-01-06-0-001-026

PROJECT TITLE:
BREWSTER CENTRAL SCHOOL DISTRICT
C.V. STARR INTERMEDIATE SCHOOL
CAFETORIUM ADDITION, INTERIOR RENOVATIONS & RELATED WORK
207 FARM TO MARKET ROAD BREWSTER, NY 10509

DRAWING TITLE:
MECHANICAL PIPING & CONTROLS DIAGRAM

DATE	ISSUED TO
12-09-2024	BID
09-25-2024	ADDENDUM 1
03-05-2024	SED SUBMISSION
11-29-2023	D.D. SUBMISSION
08-31-2023	S.D. SUBMISSION

SHEET SIZE: 30"x42"
DRAWING NO.: CVS M203
SCALE: AS NOTED
DRAWN BY: LFG
FILE NO.: 23505.02

PLOT DATE: December 02, 2024 - 5:53pm

FILE: N:\Brewster Central Schools\2023 Capital Projects\CV Starr Intermediate School\PACKAGE 2 – Cafetorium\ACAD\Mechanical\CVS PKG2_M–200_201_202_203.dwg

GAS-FIRED ROOFTOP UNIT SCHEDULE			
MARK	RTU-1	RTU-2	MUA-1
AREA SERVED	CAFETORIUM	KITCHEN	KITCHEN
MODEL	OAKD360D3-D1C400JR-A7K00AC1JR4C62C000E0	YHJ120A350L	A2-D.250-20D USB118DD-RM
MANUFACTURER	TRANE	TRANE	CAPTIVEAIRE
COOLING CAPACITY (MBH)	340	110.42	N/A
SENSIBLE CAPACITY (MBH)	231.7	81.13	N/A
HEAT SOURCE	GAS	GAS	GAS
HEAT CAPACITY (MBH)	324	121.5	178.2
AIR – SUPPLY AIRFLOW (CFM)	7405	3000	2500
AIR – ESP (in. wc.)	1	0.75	0.5
AIR – FAN RPM	1998	1241	1095
AIR – FAN BHP	5.92	#.#	0.722
AIR – COOLING EAT (DB / WB)	79.9 / 66.6	80.0 / 67.0	N/A
AIR – COOLING LAT (DB / WB)	51.5 / 51.2	57.5 / 57.1	N/A
AIR – HEATING EAT (DB / WB)	46.5 / -	45.88/-	5.0 / -
AIR – HEATING LAT (DB / WB)	86.8 / -	82.5/-	65.5 / -
ELEC – VOLTAGE	208	208	208
ELEC – PHASE	3	3	3
ELEC – MOTOR FLA	2.3	8.8	N/A
ELEC – MCA	172.7	54	6
ELEC – MOCP	200	70	15
EER	15.2	11.4	N/A
UNIT WEIGHT (lbs)	6396	1162	770
NOTES	1, 2, 3, 4	1, 2, 3	1, 2, 3

NOTES:
1. UNITS SHALL BE SET ON SPRING ISOLATORS WITH 1" STATIC DEFLECTION
2. UNITS SHALL BE FURNISHED WITH FACTORY BACNET CARD. 2.
3. FURNISH AND INSTALL ON 24" TALL VIBRATION ISOLATION ROOF CURB BY CAMBRIDGEPORT.
4. FURNISH SA & RA TRANSITION SILENCER BY VIBRO ACOUSTICS.

AIR OUTLET SCHEDULE					
TAG	MFG	MODEL	AIRFLOW (CFM)	SIZE	NOTES
CD-1	TITUS	TDC	SEE DWGS	12"x12"	1
CD-2		T3 SQ-2		24"x24"	
RG-1		350RL		32"x32"	
RG-2				6"x6"	
RG-3					
EG-1		50FF		24"x24"	
EG-2					
SR-1	SEIHO	PK	1,200	20" DIA.	1

NOTES:
1. ALL AIR OUTLETS SHALL BE WHITE UNLESS OTHERWISE NOTED ON PLANS

BRANCH DUCT SCHEDULE		
AIR FLOW (cfm)	ROUND DUCT SIZE (in.)	SQUARE DUCT SIZE (in.)
0-105	6	6x6
106-160	7	8x6
161-230	8	10x6
231-320	9	12x6
321-420	10	12x8

NOTES:
1. WHETHER OR NOT INDICATED ON PLANS, CONTRACTOR SHALL FURNISH AND INSTALL MANUAL VOLUME DAMPERS IN ALL SUPPLY AND RETURN BRANCH DUCTS.

EXTERIOR LOUVER SCHEDULE			
MARK	EL-1	EL-2	EL-3
PRODUCT TYPE	SQUARE	SQUARE	SQUARE
MANUFACTURER	RUSKIN	RUSKIN	RUSKIN
MODEL	ELF375DX	ELF375DX	ELF375DX
AREA (in. x in.)	12 x 9	36 X 12	24 x 12
DEPTH (in.)	15	15	15
AIRFLOW (cfm)	85	495	495
FREE AREA (%)	54	54	54

NOTES:
1. LOUVER SHALL BE FURNISHED WITH INSECT SCREEN.
2. REFER TO ARCHITECTURAL PLANS FOR COLOR.

MITSUBISHI ELECTRIC TRANE HVAC US: CITY MULTI VRF INDOOR UNIT SCHEDULE

System Tag	Room Name	Tag Reference	Model	Type	Nominal Cooling Capacity (BTU/h)	Nominal Heating Capacity (BTU/h)	Cooling Design Entering Temp DB/WB (°F) / [Water in temp]	Heating Design Entering Temp DB/WB (°F) / [Water in temp]	Corrected Capacity: Cooling Diversity Full/Partial (See Note 5, 6)	Corrected Capacity: Cooling Total Capacity (BTU/h)	Corrected Capacity: Cooling Sensible Capacity (BTU/h)	Corrected Capacity: Heating Diversity Full/Partial (See Note 5, 6)	Corrected Capacity: Heating Capacity (BTU/h)	Refrig Pipe Dim Liquid/Suction (inch)	Fan Speed Setting	Peak Fan Airflow (cfm) / [Design gpm G(US)/min]	Max Fan ESP Setting 208V/230V (IN WG)	Voltage / Phase	Electrical MCA/MFS	Notes / Options
Original HP-1		CCU1	TPLFYP008FM140A	Ceiling-Cassette (Four-Way)	8,000	9,000	80.0/67.0	70	FULL DEMAND	8,016.8	6,224.0	FULL DEMAND	8,994.9	1/4 / 1/2	HIGH	315		208/230V/1-phase	0.28/0.28/15	1, 2, 3, 4, 8
Original HP-1		CCU2	TPLFYP008FM140A	Ceiling-Cassette (Four-Way)	8,000	9,000	80.0/67.0	70	FULL DEMAND	8,016.8	6,224.0	FULL DEMAND	8,994.9	1/4 / 1/2	HIGH	315		208/230V/1-phase	0.28/0.28/15	1, 2, 3, 4, 8
Original HP-1		FCU1	TPEFYP024MA1 44A	Ceiling-Concealed (Ducted)	24,000	27,000	80.0/67.0	70	FULL DEMAND	24,050.4	19,233.2	FULL DEMAND	26,984.6	3/8 / 5/8	HIGH	883	0.6/0.6	208/230V/1-phase	2.88/15	1, 2, 3, 4, 7, 8
Original HP-1		FCU4	TPFFYP008CS140A	Floor-Standing Type (Exposed)	8,000	9,000	80.0/67.0	70	FULL DEMAND	8,016.8	5,793.4	FULL DEMAND	8,994.9	1/4 / 1/2	HIGH	230		208/230V/1-phase	0.32/0.34/15	1, 2, 3, 4, 7, 9
Original HP-1		CCU3	TPLFYP008FM140A	Ceiling-Cassette (Four-Way)	8,000	9,000	80.0/67.0	70	FULL DEMAND	8,016.8	6,224.0	FULL DEMAND	8,994.9	1/4 / 1/2	HIGH	315		208/230V/1-phase	0.28/0.28/15	1, 2, 3, 4, 8
Original HP-2		FCU2	TPEFYP054MA1 44A	Ceiling-Concealed (Ducted)	54,000	60,000	80.0/67.0	70	FULL DEMAND	53,395.2	37,819.2	FULL DEMAND	48,806.0	3/8 / 5/8	HIGH	1413	0.6/0.6	208/230V/1-phase	4.38/15	1, 2, 3, 4, 7, 8
Original HP-2		FCU3	TPEFYP030MA1 44A	Ceiling-Concealed (Ducted)	30,000	34,000	80.0/67.0	63.4	FULL DEMAND	29,664.0	21,452.5	FULL DEMAND	30,160.9	3/8 / 5/8	HIGH	883	0.6/0.6	208/230V/1-phase	2.88/15	1, 2, 3, 4, 7, 9
Original HP-2		CCU4	TPLFYP012FM140A	Ceiling-Cassette (Four-Way)	12,000	13,500	80.0/67.0	70	FULL DEMAND	11,865.6	8,020.5	FULL DEMAND	10,981.3	1/4 / 1/2	HIGH	335		208/230V/1-phase	0.29/0.29/15	1, 2, 3, 4, 8
ALT HP-1		ALTCCU1	TPLFYP008FM140A	Ceiling-Cassette (Four-Way)	8,000	9,000	80.0/67.0	70	FULL DEMAND	7,572.9	6,051.7	FULL DEMAND	7,269.7	1/4 / 1/2	HIGH	315		208/230V/1-phase	0.28/0.28/15	1, 2, 3, 4, 8
ALT HP-1		ALTCCU2	TPLFYP008FM140A	Ceiling-Cassette (Four-Way)	8,000	9,000	80.0/67.0	70	FULL DEMAND	7,572.9	6,051.7	FULL DEMAND	7,269.7	1/4 / 1/2	HIGH	315		208/230V/1-phase	0.28/0.28/15	1, 2, 3, 4, 8
ALT HP-1		ALTFCU1	TPEFYP024MA1 44A	Ceiling-Concealed (Ducted)	24,000	27,000	80.0/67.0	70	FULL DEMAND	22,718.6	18,722.1	FULL DEMAND	21,809.2	3/8 / 5/8	HIGH	883	0.6/0.6	208/230V/1-phase	2.88/15	1, 2, 3, 4, 7, 8
ALT HP-1		ALTFCU4	TPFFYP008CS140A	Floor-Standing Type (Exposed)	8,000	9,000	80.0/67.0	70	FULL DEMAND	7,572.9	5,614.8	FULL DEMAND	7,269.7	1/4 / 1/2	HIGH	230		208/230V/1-phase	0.32/0.34/15	1, 2, 3, 4, 7, 9
ALT HP-1		ALTCCU3	TPLFYP008FM140A	Ceiling-Cassette (Four-Way)	8,000	9,000	80.0/67.0	70	FULL DEMAND	7,572.9	6,051.7	FULL DEMAND	7,269.7	1/4 / 1/2	HIGH	315		208/230V/1-phase	0.28/0.28/15	1, 2, 3, 4, 8
ALT HP-1		ALTCCU5	TPLFYP008FM140A	Ceiling-Cassette (Four-Way)	8,000	9,000	80.0/67.0	70	FULL DEMAND	7,572.9	6,051.7	FULL DEMAND	7,269.7	1/4 / 1/2	HIGH	315		208/230V/1-phase	0.28/0.28/15	1, 2, 3, 4, 8
ALT HP-1		ALTCCU6	TPLFYP012FM140A	Ceiling-Cassette (Four-Way)	12,000	13,500	80.0/67.0	70	FULL DEMAND	11,359.3	7,807.2	FULL DEMAND	10,904.6	1/4 / 1/2	HIGH	335		208/230V/1-phase	0.29/0.29/15	1, 2, 3, 4, 8
ALT HP-2		ALTFCU2	TPEFYP054MA1 44A	Ceiling-Concealed (Ducted)	54,000	60,000	80.2/67.1	67.8	FULL DEMAND	54,197.9	38,245.2	FULL DEMAND	39,272.1	3/8 / 5/8	HIGH	1413	0.6/0.6	208/230V/1-phase	4.38/15	1, 2, 3, 4, 7, 9
ALT HP-2		ALTFCU3	TPEFYP030MA1 44A	Ceiling-Concealed (Ducted)	30,000	34,000	80.3/67.1	66.5	FULL DEMAND	30,109.9	21,775.4	FULL DEMAND	22,638.0	3/8 / 5/8	HIGH	883	0.6/0.6	208/230V/1-phase	2.88/15	1, 2, 3, 4, 7, 8
ALT HP-2		ALTFCU5	TPEFYP030MA1 44A	Ceiling-Concealed (Ducted)	30,000	34,000	81.4/67.7	56.5	FULL DEMAND	30,550.6	22,211.2	FULL DEMAND	24,852.2	3/8 / 5/8	HIGH	883	0.6/0.6	208/230V/1-phase	2.88/15	1, 2, 3, 4, 7, 8
ALT HP-2		ALTFCU6	TPEFYP030MA1 44A	Ceiling-Concealed (Ducted)	30,000	34,000	81.4/67.7	56.5	FULL DEMAND	30,550.6	22,211.2	FULL DEMAND	24,852.2	3/8 / 5/8	HIGH	883	0.6/0.6	208/230V/1-phase	2.88/15	1, 2, 3, 4, 7, 8
ALT HP-2		ALTCCU4	TPLFYP012FM140A	Ceiling-Cassette (Four-Way)	12,000	13,500	80.0/67.0	70	FULL DEMAND	12,014.6	8,083.8	FULL DEMAND	8,575.8	1/4 / 1/2	HIGH	335		208/230V/1-phase	0.29/0.29/15	1, 2, 3, 4, 8

ALT

Notes & Options:
1 Nominal cooling capacities are based on indoor coil EAT of 80/67°F (DB/WB), outdoor of 95°F (DB)
2 Nominal heating capacities are based on indoor coil EAT of 70°F (DB), outdoor of 43°F (WB)
3 See outdoor unit schedule for outdoor ambient conditions, connected capacity, and other factors associated with corrected capacities
4 See schematic piping/control diagram for indication of required indoor unit remote controllers, system controllers, and integration devices.
5 Unit to be provided with emergency drain pan and leak sensor.
6 Unit to be provided with factory condensate pump.
7 Unit to be provided with auxiliary condensate pump (MAXIBLUE DS 2019 USA or equal).

VRF HEAT RECOVERY BRANCH CIRCUIT CONTROLLER

System Tag	Tag Reference	M-NET Address	Model Number	Type (double / Main / Sub)	Number of Ports	Connected Capacity to BC	Voltage / Phase	MCA 208/230	Notes / Options
Original HP-1	BCC-A1	52	TCMBG0106SJ11N4	Single	6	56,000.0	208/230V/1-phase	0.55/0.65	1
Original HP-2	BCC-B1	57	TCMBG0106SJ11N4	Single	6	96,000.0	208/230V/1-phase	0.55/0.65	1
ALT HP-1	BCC-A1	52	TCMBG0108SJ11N4	Single	8	76,000.0	208/230V/1-phase	0.74/0.87	1
ALT HP-2	BCC-B1	57	TCMBM0108JA11N4	Main	8	156,000.0	208/230V/1-phase	0.83/0.97	1

ALT

Notes & Options:
1 Include Diamondback Ball Valves BV-Series, 700PSIG working pressure, full port, 410A rated.

EXISTING ROOFTOP UNIT SCHEDULE		
MARK	(E) ERU-1	
AREA SERVED	CAFÉTERIA RENOVATION	
MODEL	ERU-E-05-EW04-H-C-SS	
MANUFACTURER	ANNEX AIR	
COOLING CAPACITY (MBH)	231.8	
SENSIBLE CAPACITY (MBH)	164.52	
HEAT SOURCE	HOT WATER	
HEAT CAPACITY (MBH)	309.6	
OUTSIDE AIR (CFM)	5,900	
AIR – SUPPLY AIRFLOW (CFM)	5,900 REDUCED TO 4,400cfm	
AIR – ESP (in. wc.)	1.25	
AIR – FAN RPM	2087	
AIR – FAN BHP	5.82	
AIR – FAN HP	7.5	
AIR – COOLING EAT (DB / WB)	80.70 / 67.90	
AIR – COOLING LAT (DB / WB)	55.46 / 55.45	
AIR – HEATING EAT (DB / WB)	52.1 / -	
AIR – HEATING LAT (DB / WB)	100.23 / -	
WATER – FLUID TYPE	40% GLYCOL	
WATER	CHILLED WATER COIL	
WATER – ENTERING FLUID TEMP.	45.00 F	
WATER – LEAVING FLUID TEMP.	54.70 F	
WATER – FLOW PER COIL (GPM)	52.22	
WATER – PRESSURE DROP (FT WG)	22.75	
WATER – FLUID TYPE	40% GLYCOL	
WATER	HOT WATER COIL	
WATER – ENTERING FLUID TEMP.	140.00 F	
WATER – LEAVING FLUID TEMP.	125.00 F	
WATER – FLOW PER COIL (GPM)	44.33	
WATER – PRESSURE DROP (FT WG)	7.42	
ELEC – VOLTAGE	208	
ELEC – PHASE	3	
ELEC – SA MOTOR FLA	20.4	
ELEC – EXH MOTOR FLA	14	
ELEC – FULL FLA	36	
ELEC – MCA	41	
ELEC – MOCP	60	
EER	#	
UNIT WEIGHT (lbs)	5,000	
NOTES	1, 2, 3, 4, 5	

NOTES:
1. EXISTING UNIT'S SUPPLY AIR CAPACITY TO BE REDUCED DOWN TO 4,400CFM.
2. EXISTING UNIT SHALL BE FURNISHED WITH NEW "LOGIC CONTROL".
3. EXISTING UNIT'S DAMPERS SHALL BE CHANGED TO MODULATING TO ALLOW FOR DOAS CAPABILITIES TO BECOME RECIRCULATING.
4. EXISTING ANNEX-AIR 100% O.A. SINGLE WHEEL ENERGY RECOVERY AIR HANDLING UNIT TO BE RECONFIGURED TO 30% O.A.
5. EXISTING DAMPER ACTUATORS TO BE CHANGED TO MODULATING AND EXISTING CONTROLS CHANGED TO LOGIC CONTROL TYPE.

MITSUBISHI ELECTRIC TRANE HVAC US: CITY MULTI VRF OUTDOOR UNIT SCHEDULE

System Tag	Tag Reference	M-NET Address	Model Number	Modules	Nominal Cooling Capacity (BTU/h)	Nominal Heating Capacity (BTU/h)	Design Cooling Outdoor Temp DB (°F)	Design Heating Outdoor Temp WB (°F)	Corrected Cooling Total Capacity (BTU/h)	Corrected Heating Capacity (BTU/h)	Electrical-Per Module 208/230 or [460V]: Voltage / Phase	Electrical-Per Module 208/230 or [460V]: MCA 208/230 or [460V]	Electrical-Per Module 208/230 or [460V]: RFS	Electrical-Per Module 208/230 or [460V]: MOCP	Notes / Options
Original HP-1	OG HP-1	51	TURYE0723AN40AN	EP72	72,000	80,000	91.0	5.0	73,219.2	68,850.1	208/230V / 3-phase 3-wire	23/21	35/30	35/30	1, 2, 3, 4, 5
Original HP-2	OG HP-2	56	TURYE0963AN40AN	EP96	96,000	108,000	91.0	5.0	94,924.7	89,948.2	208/230V / 3-phase 3-wire	31/29	45/45	45/45	1, 2, 3, 4, 5
ALT HP-1	OG HP-1	51	TURYE0723AN40AN	EP72	72,000	80,000	91.0	5.0	71,942.3	69,062.6	208/230V / 3-phase 3-wire	23/21	35/30	35/30	1, 2, 3, 4, 5
ALT HP-2	ALT HP-2	56	TURYE1683AN40AN	EP168	168,000	188,000	91.0	5.0	171,144.0	120,190.2	208/230V / 3-phase 3-wire	57/53	70/70	90/80	1, 2, 3, 4, 5

ALT

Notes & Options:
1 Nominal cooling capacities are based on indoor coil EAT of 80/67°F (DB/WB), outdoor of 95°F (DB)
2 Nominal heating capacities are based on indoor coil EAT of 70°F (DB), outdoor of 43°F (WB)
3 For systems with multiple modules, refrigerant pipe dimensions indicate total system combined piping downstream of module twinning.
4 Added field charge listed is in addition to factory charge, this must be updated based upon final as-built piping layout.

SILENCER SCHEDULE (VIBRO-ACOUSTICS)

TAG	SYSTEM	TYPE (NOTE 1)	DIMENSIONS: DUCT WIDTH, IN.	DIMENSIONS: OUTER WIDTH, IN.	DIMENSIONS: DUCT HEIGHT, IN.	DIMENSIONS: LENGTH IN.	AIRFLOW, CFM	VELOCITY, FPM (NOTE 2)	IDEAL DP IN.W.G. (NOTE 3)	MAX.DP W/SYS EFF IN.W.G. (NOTE 4)	MINIMUM DYNAMIC INSERTION LOSS, dB (NOTE 5) OCTAVE BAND CENTER FREQUENCY, HZ: 63	125	250	500	1000	2000	4000	8000	BASIS OF DESIGN VIBRO-ACOUSTICS MODEL NUMBER	NOTES
SA-S	Supply	EXTRD	see note 9				7405	+1058	0.09	0.30	5	9	19	34	43	34	23	18	EXTRD-MV-AY31086	
		Transitional silencer, inlet duct connection, 36x28, casing dimenison 48x28, Outlet duct dimension, 58x20, casing dimension 70x28																		
SA-R	Return	EXTRD	see note 10				7754	-1493	0.12	0.31	6	9	21	36	44	35	22	16	EXTRD-MV-AY31086	
		Transitional silencer, inlet duct connection, 58x20, casing dimenison 70x32, Outlet duct dimension, 34x22, casing dimension 46x32																		

Notes:
1. TYPE EX - EXTENDED CASING D - DISSIPATIVE R - RECTANGULAR
2. VELOCITY SHOWN IS + (FORWARD FLOW) OR - (REVERSE FLOW) AS DEFINED BY ASTM E477-20.
3. IDEAL PRESSURE DROP AS DETERMINED PER ASTM E477-20 IN A NVLAP-ACCREDITED ACOUSTICAL LABORATORY.
4. PRESSURE DROP PER ASTM E477-20 PLUS SYSTEM EFFECTS FOR NEARBY DUCT ELEMENTS.
5. MINIMUM DYNAMIC INSERTION LOSS DETERMINED PER ASTM E477-20 IN A NVLAP-ACCREDITED ACOUSTICAL LABORATORY.
6. NON-BASIS OF DESIGN SILENCER MANUFACTURER SHALL PROVIDE, FOR APPROVAL, PROFESSIONAL ENGINEER STAMPED ACOUSTICAL CALCULATIONS FOR ALL SYSTEMS WITH SILENCERS TO DEMONSTRATE THAT THE RESULTANT DUCTBORNE FAN SOUND LEVELS, INCLUDING AIRBORNE AND BREAKOUT NOISE, MEET THE REQUIRED CRITERIA.
7. NON-BASIS OF DESIGN SILENCER MANUFACTURER SHALL PROVIDE, FOR APPROVAL, PROFESSIONAL ENGINEER STAMPED PRESSURE DROP CALCULATIONS FOR ALL SYSTEMS WITH SILENCERS TO DEMONSTRATE THAT THE RESULTANT INSTALLED PRESSURE DROP WITH SYSTEM EFFECTS DOES NOT EXCEED SCHEDULED VALUES.
8. FOR NON-BASIS OF DESIGN PRODUCT SUPPLIED, CONTRACTOR IS FINANCIALLY RESPONSIBLE TO ENSURE NOISE CONTROL SOLUTION IS DELIVERED TO ACHIEVE SPECIFIED NC LEVEL IN SPACES.
9. INLET DUCT CONNECTION: 36x28, CASING 48x28, OUTLET DUCT DIMENSION: 58x20, CASING 70x28.
10. INLET DUCT CONNECTION: 58x20, CASING 70x32, OUTLET DUCT DIMENSION: 34x22, CASING 46x32.

ALT

NEW ERV SCHEDULE			
MARK	ERV-1	ERV-2	(ALT.) ERV-3
AREA SERVED	BATHROOMS	BACKSTAGE/MUSIC CLASSROOM	SGI, CORRIDOR, STORAGE
MODEL	TLGHF0600RVX02A	TLGHF1200RVX02A	TLGHF0600RVX02A
MANUFACTURER	LOSSNAY	LOSSNAY	LOSSNAY
AIRFLOW	515	1,280	515
VOLTAGE	208	208	208
PHASE	1	1	1
MCA	5.2	10.4	5.2
MOCP	15	15	15
WEIGHT	123	251	123
NOTES	1, 2, 3	1, 2, 3	1, 2, 3

NOTES:
1. UNIT SHALL INCLUDE FACTORY MOTORIZED DAMPERS AT OUTDOOR AND EXHAUST AIR CONNECTIONS.
2. UNIT SHALL BE FURNISHED WITH BACNET CARD.
3. INSTALL AND FURNISH VIBRATION ISOLATION HANGERS BY MANUFACTURER.

ALT

CEILING CASSETTE UNIT SCHEDULE												
MARK	TYPE	AREA SERVED	MODEL	MANU.	AIRFLOW (CFM)	NOMINAL TONNAGE	COOLING CAPACITY (MBH)	HEATING CAPACITY (MBH)	VOLTAGE	PHASE	MCA	MOCP	NOTES
CCU-1	CLG.MTD.	OFFICE #44	TPLFYP008FM140A	TRANE	315	0.8	0.67	8	208	1	0.28	15	1,2,3,4,5
CCU-2	CLG.MTD.	OFFICE #43	TPLFYP008FM140A	TRANE	315	0.8	0.67	8	208	1	0.28	15	1,2,3,4,5
CCU-3	CLG.MTD.	VESTIBULE #48	TPLFYP008FM140A	TRANE	315	0.8	0.67	8	208	1	0.28	15	1,2,3,4,5
CCU-4	CLG.MTD.	SECURITY OFFICE	TPLFYP012FM140A	TRANE	395	1.0	1	12	208	1			1,2,3,4,5
CCU-5	CLG.MTD.	VESTIBULE #70	TPLFYP008FM140A	TRANE	315	0.8	0.67	8	208	1	0.28	15	1,2,3,4,5
CCU-6	CLG.MTD.	VESTIBULE #182	TPLFYP012FM140A	TRANE	395	1.0	1	12	208	1			1,2,3,4,5

NOTES:
1. UNIT SHALL INCLUDE FACTORY FILTER BOXES.
2. REFER TO FAN COIL HANGING DETAIL FOR ADDITIONAL INFORMATION.
3. UNITS SHALL BE FURNISHED WITH FACTORY BACNET CARD.
4. PROVIDE FACTORY CONDENSATE PUMP FOR EACH FAN COIL CONNECTED TO UNIT POWER.
5. REFER TO PIPING DIAGRAM FOR DX PIPE SIZES.

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LICENSE EXP. DATE: 03-31-2026

S.E.D. CONTROL NUMBER:
48-06-01-06-0-001-026

PROJECT TITLE
BREWSTER CENTRAL SCHOOL DISTRICT
C.V. STARR INTERMEDIATE SCHOOL
CAFETORIUM ADDITION/INTERIOR RENOVATION & ATHLETIC IMPROVEMENTS
20 FARM TO MARKET ROAD BREWSTER, NY 10509

DRAWING TITLE
MECHANICAL SCHEDULES

DATE	ISSUED TO
12-09-2024	BID
09-25-2024	ADDENDUM 1
03-05-2024	SED SUBMISSION
11-29-2023	D.D. SUBMISSION
08-31-2023	S.D. SUBMISSION

SHEET SIZE: 30"x42"
DRAWING NO.: CVS M300
SCALE: AS NOTED
DRAWN BY: LFG
FILE NO.: 23505.02

PLOT DATE: December 02, 2024 - 5:53pm

FILE: N:\Brewster Central Schools\2023 Capital Projects\CV Starr Intermediate School\PACKAGE 2 - Cafetorium\ACAD\Mechanical\CVS PKG2_M-300.dwg

KITCHEN COOLER/FREEZER EQUIP.

CONDENSING UNIT ITEM #	SYSTEM	ITEM #	DESCRIPTION	FIXTURES TEMP °F FIXT.	SUCT.	REQ'D FIXTURE BTU/H	REFRIG. R.	CONDENSING UNIT COMPRESSOR MODEL NO.	H.P.	RATING @ 60 HZ RLA	V	PH	BTU CAP @ AMB °F 90	TYPE	REC. CAP. (lbs)	EVAPORATOR COILS ITEM #	MODEL NO.	QTY	FAN MOTORS @ 60 HZ RLA	V	PH	HEATERS @ 60 HZ RLA	V	PH	DEFR. TYPE	DEFROST CONTROLLER TYPE	CONTROLLER QTY	ACCESSORIES TSTAT	SOL. VALVE	EXP. V.LV.	REFRIGERANT LINE SIZES (IN) SUCT.	LIQUID	LINE RUN (FT)	TYPE	TOTAL SYSTEM LOAD	MCA	MOPD
CU-1	A	-	WALK-IN COOLER	35	25	9762	448A	PCM009ZCT3A	0.9	5.2	208	3	10200	Z	8.0	EV-1	BEL0095	1	1.8	115	1	-	-	-	O.C.	ECOSMART	1	F	F	EF	5/8	3/8	100	M	5.2	15.0	15
CU-2	B	-	WALK-IN FREEZER	-10	-20	10964	448A	PCL035ZCT3A	3.5	11.9	208	3	11600	Z	15.0	EV-2	BEL0130	1	1.5	208	1	13.7	208	1	ELEC	ECOSMART	1	F	F	EF	1-1/8	1/2	100	M	11.9	20.0	25
ALL EVAPORATOR COILS WILL REQUIRE A HOUSE POWER SUPPLY																																					

NOTE:
IT IS THE INSTALLING CONTRACTORS RESPONSIBILITY TO FOLLOW ALL APPLICABLE CODES AND CURRENT REFRIGERATION INDUSTRY STANDARDS AND PRACTICES WHEN DETERMINING LINE SIZES, AND INSTALLING AND STARTING UP RDT EQUIPMENT.

COMPRESSOR TYPE
Z SCROLL
H HERMETIC
S SEMI-HERMETIC
D DISCUS

DEFROST TYPE
O.C. OFF CYCLE
ELEC ELECTRIC

LINE TYPE
M MAIN
B BRANCH
T TRUNK

EVAPORATOR ACCESSORIES
EF EEV FACTORY EQUIPPED ON EVAP
TF TXV FACTORY EQUIPPED ON EVAP
F FACTORY EQUIPPED ON EVAP
O PROVIDED BY OTHERS
L LOOSE (FIELD INSTALLATION)

VARIABLE AIR VOLUME (VAV) BOX SCHEDULE

UNIT TAG	MAKE/MODEL	SERVED BY:	SERVES	UNIT SIZE	INLET SIZE	UNIT L X W X H	PRIMARY AIR MAX (CFM)	PRIMARY AIR MIN (CFM)	HOT WATER COIL EWT/LWT	HOT WATER COIL EAT/LAT	HOT WATER COIL MBH	HOT WATER COIL GPM	HOT WATER COIL P.D.	HOT WATER COIL ROWS	SUPPLY AIR FAN CFM	SUPPLY AIR FAN E.S.P.	
VAV 1-1	PRICE/FDC	(E)ERU-1	CLASSROOM #1	30	10ø	110 X 26 X 18.5	1200	360	140/120	55.0/92.8	33.80	3.72	.25	2	1200	.2"	
VAV 1-2A	PRICE/FDC	(E)ERU-1	CLASSROOM #2A	10	6ø	105 X 20 X 15.25	520	156	140/120	55.0/90.6	13.40	1.48	.19	2	520	.2"	
VAV 1-2B	PRICE/FDC	(E)ERU-1	CLASSROOM #2B	10	6ø	105 X 20 X 15.25	520	156	140/120	55.0/90.6	13.40	1.48	.19	2	520	.2"	
VAV 1-3	PRICE/FDC	(E)ERU-1	CORRIDOR C5, (E) CORR., & (E) OFFICE	10	8ø	85.5 X 20 X 15.25	715	214	140/120	55.0/87.2	15.80	1.74	.32	2	715	.2"	
VAV 1-4	PRICE/FDC	(E)ERU-1	CLASSROOM #3	40	10ø	110 X 26 X 18.5	1380	414	140/120	66.9/91.5	36.80	4.06	.32	2	1380	.2"	

NOTES
1. PROVIDE UNITS WITH NON-FUSED DISCONNECT SWITCH.
2. PROVIDE 120-24 VAC. TRANSFORMER.
3. PROVIDE DISCHARGE AIR TEMP SENSOR DOWNSTREAM OF HOT WATER COIL FOR ALL UNITS.

(UN-HEATED) AIR CURTAIN SCHEDULE

TAG	QUANTITY	SERVICE	TYPE	MFG	MODEL	AIR FLOW (CFM)	MAX. VEL. (FPM)	AVG. VEL. (FPM)	POWER RATING (kW)	HP	AMPS PER CIRCUIT	BREAKER RATING	VOLTAGE	NET WT. (lbs)
UAC-1	1	KITCHEN	CLG. MTD.	BERNER	SLC07-1072A	2,031	2,913	1,725	0.32	1/5	3.4	15	120/1/60	56

NOTES:
1. FURNISH FACTORY DISCONNECT SWITCHES TO BE INSTALLED BY ELECTRICAL CONTRACTOR.

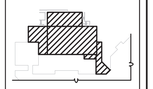
EXHAUST FAN SCHEDULE

TAG	QUANTITY	SERVICE	TYPE	MFG	MODEL	AIR FLOW (CFM)	STATIC PRESS. (IN. H20)	RPM	WATTS	HP	MAX. AMPS	VOLTAGE
KX-1	1	KITCHEN EXH. HOOD	ROOF MTD.	CAPTIVEAIRE	DU180HFA	3000	1.63	1308	-	3.0	-	208/3/60
EF-1	1	ELEVATOR (ALT.#2)	ROOF MTD.	LOREN COOK	90C17DL (VF)	250	0.2	1172	14	.05	-	115/1/60

ALT

NOTES:
1. FURNISH FACTORY DISCONNECT SWITCHES TO BE INSTALLED BY ELECTRICAL CONTRACTOR.
2. FURNISH FACTORY SPEED CONTROLLER FOR FANS. BALANCE CONTRACTOR SHALL USE CONTROLLER TO SET SPEED TO MATCH AIRFLOW SPECIFIED ON PLANS.
3. PROVIDE BACK-DRAFT DAMPER ACCESSORY.
4. FURNISH WITH FACTORY PROVIDED 24" TALL ROOF MOUNTING CURB.
6. KITCHEN EXHAUST FAN SHALL BE PROVIDED WITH CONTAINMENT CURB WITH GREASE CUP BY MANUFACTURER.

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FILE: N:\Brewster Central Schools\2023 Capital Projects\CV Starr Intermediate School\PACKAGE 2 - Cafetorium\ACAD\Mechanical\CVS PKG2_M-300.dwg

GENERAL NOTES

1. DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENT OF SYSTEMS AND WORK. CONTRACTOR SHALL FURNISH ALL NECESSARY OUTLETS, SUPPORTS, FITTINGS AND ACCESSORIES TO FULFILL APPLICABLE CODES, REGULATIONS, BUILDING STANDARDS AND THE BEST PRACTICES OF THE TRADE FOR FIRST CLASS ELECTRICAL INSTALLATION.
2. THE DRAWINGS INDICATE SIZE AND GENERAL LOCATION OF WORK. SCALED DIMENSIONS SHALL NOT BE USED. THE EXACT LOCATION AND ELEVATION OF ALL ELECTRICAL EQUIPMENT SHALL BE COORDINATED IN FIELD WITH RESPECTIVE CONTRACTOR/OWNER.
3. FEEDERS AND BRANCH CIRCUITRY SHALL BE RUN IN CONDUIT MINIMUM 3/4" CONDUIT UNLESS OTHERWISE NOTED. FINAL CONNECTIONS TO MOTORS MAY BE DONE WITH FLEXIBLE METALLIC CONDUIT (NO LONGER THAN 18"). IN UNFINISHED AREA CONDUIT SHALL BE RUN EXPOSED AND IN FINISHED AREAS CONDUIT SHALL BE RUN CONCEALED.
4. PROVIDE PANEL NAME PLATE MADE OF BLACK LAMINATED PLASTIC WITH WHITE ENGRAVED LETTERING AND TYPE WRITTEN DIRECTORY FOR ALL NEW PANELBOARDS.
5. ALL CONDUCTORS SHALL BE COPPER, TYPE THHN/THWN INSULATED. ALL CONDUCTORS SHALL HAVE 600 VOLT RATED INSULATION UNLESS OTHERWISE NOTED.
6. PROVIDE LOCK–ON CIRCUIT BREAKERS FOR CIRCUITS SERVING EXIT SIGN FIXTURES.
7. REFER TO ARCHITECT'S REFLECTED CEILING PLAN FOR EXACT LOCATION OF ALL CEILING MOUNTED LIGHTING FIXTURES AND OTHER CEILING INSTALLED ITEMS.
8. THE USE OF FLEXIBLE CONDUIT FROM LIGHTING FIXTURES TO JUNCTION BOX IS PERMITTED ONLY WHEN A SEPARATE GROUND WIRE IS INSTALLED WITH THE CONDUCTORS INSIDE FLEXIBLE CONDUIT. THE GROUND WIRE MUST BOND THE FIXTURE HOUSING TO THE JUNCTION BOX. MAXIMUM LENGTH 6'–0".
9. EXACT LOCATION AND MOUNTING HEIGHTS OF ALL WIRING DEVICES SHALL BE COORDINATED WITH THE ARCHITECT PRIOR TO THE INSTALLATION.
10. WALL MOUNTED EQUIPMENT (SWITCHES, RECEPTACLES, ETC.,) SHALL BE SURFACE MOUNTED IN UNFINISHED AREAS AND FLUSH MOUNTED IN FURNISHED AREAS.
11. CONDUIT RUNS SHALL BE PARALLEL WITH OR AT RIGHT ANGLES TO WALLS AND CEILINGS. CONDUIT SHALL BE SUPPORTED BY APPROVED MEANS. SUPPORTS FOR HORIZONTAL RUNS OF CONDUIT SHALL NOT EXCEED SEVEN FEET ON CENTERS.
12. PROVIDE PULL BOXES, JUNCTION BOXES, CONDUIT ELBOWS AND OFFSETS TO SUIT FIELD CONDITIONS AND THE NATIONAL ELECTRICAL CODE.
13. CONTRACTOR SHALL COORDINATE WITH THE FIRE DEPARTMENT AND F.A. VENDOR BEFORE PROCEEDING WITH WORK INVOLVING FIRE ALARM SYSTEM.
14. ALL EMPTY CONDUIT SHALL BE PROVIDED WITH A DRAGWIRE.
15. THE MINIMUM WIRE SIZE FOR 120 VOLT BRANCH CIRCUITS SHALL BE NO. 12 AWG, EXCEPT OVER 100' IN LENGTH SHALL BE NO. 10 AWG. CONTRACTOR SHALL COORDINATE WITH ENGINEER FOR ANY REQUIRED UPSIZING OF ALL BRANCH CIRCUITS OVER 100' LENGTH TO DETERMINE ADEQUATE WIRE AND CONDUIT SIZE REQUIRED.
16. PROVIDE ALL REQUIRED AND NECESSARY ACCESSORIES (EX. CONNECTORS, ADAPTERS, BUSHINGS, CLAMPS, ETC.) TO FACILITATE COMPLETE INSTALLATION.
17. THE ELECTRICAL CONTRACTOR SHALL CONFIRM THE CONFIGURATION TYPE FOR ALL SPECIAL RECEPTACLES FOR COPIERS, DATA PROCESSING EQUIPMENT. ETC. WITH OWNER AND ENGINEER PRIOR TO ORDERING.
18. COORDINATE LOCATION OF ALL MECHANICAL EQUIPMENT WITH HVAC CONTRACTOR IN FIELD. FUSES FOR ALL MOTOR LOADS SHALL BE DUAL ELEMENT TIME DELAY TYPE.
19. ALL JUNCTION OR OUTLET BOXES SHALL BE INSTALLED SO AS TO ALLOW ACCESS TO COVER. PROVIDE ARCHITECT APPROVED ACCESS DOORS OR PLATES AS REQUIRED IN AREAS WHERE UNOBSTRUCTED ACCESS TO BOX OR OUTLET IS NOT POSSIBLE.
20. PRIOR TO ORDERING LIGHTING FIXTURES, COORDINATE WITH ARCHITECTURAL DRAWINGS AND SPECIFICATIONS. IF DISCREPANCIES EXIST BETWEEN ARCHITECTURAL AND ENGINEERING INFORMATION OBTAIN CLARIFICATION PRIOR TO PROCEEDING.
21. MULTIPLE SWITCHES SHOWN IN SAME LOCATION SHALL BE GANGED TOGETHER WITH A COMMON FACEPLATE.
22. ALL LIGHTING FIXTURES UTILIZING ELECTRONIC BALLASTS SHALL BE PROVIDED WITH A DEDICATED NEUTRAL OR AN OVERSIZED NEUTRAL WHEN SHARED.
23. PREPARE 'AS–BUILT' TRACINGS SHOWING ALL CHANGES IN WIRE SIZE, CIRCUIT NUMBERING, CIRCUIT ROUTING, EQUIPMENT LOCATIONS AND ALL ELECTRICAL WORK AS ACTUALLY INSTALLED.
24. LIGHT FIXTURES SHALL BE CONSTRUCTED TO SUIT PARTICULAR TYPE OF CEILING AND WALL CONSTRUCTION AND SHALL BE PROVIDED WITH APPROPRIATE TRIMS, MOUNTING FRAMES AND ADAPTERS AS REQUIRED.
25. COORDINATE WITH MECHANICAL CONTRACTOR BEFORE THE START OF ANY WORK FOR ALL STARTERS REQUIRED BEING INTERFACED WITH ALL MECHANICAL EQUIPMENT. STARTER WILL BE FURNISHED BY OTHERS. IT SHALL BE INSTALLED AND WIRED BY ELECTRICAL CONTRACTOR.
26. ALL WORK SHALL CONFORM BUILDING STANDARDS, AND WHERE REQUIRED SHALL BE SUBMITTED TO APPROPRIATE AGENCIES AND PUBLIC JURISDICTIONS FOR INSPECTION AND APPROVAL.
27. PROOF OF INSPECTION, AND APPROVAL OF SHOP DRAWINGS, OPERATING AND MAINTENANCE MANUALS, VALVE SCHEDULES, AND ALL OTHER PERTINENT INFORMATION SHALL BE FILED WITH THE BUILDING OWNER PRIOR TO ACCEPTANCE OF WORK.
28. THE LOCATION OF PIPING, DUCTS, CONDUITS, OR OTHER EQUIPMENT OUTSIDE OF THIS FLOOR SHALL BE REVIEWED TO LIMIT WORK AND MINIMIZE THE DISTURBANCE TO OTHER TENANTS.
29. BUILDING OWNER APPROVAL SHALL BE OBTAINED PRIOR TO UTILITIES SHUT DOWN.
30. DEPARTMENT OF BUILDINGS APPROVAL SHALL BE OBTAINED, AND ISSUED PERMITS ON SITE PRIOR TO COMMENCEMENT OF ANY WORK.
31. IT IS THE INTENT THAT THE FOREGOING WORK SHALL BE COMPLETE IN EVERY RESPECT AND THAT ANY MATERIAL OR WORK NOT SPECIFICALLY MENTIONED OR SHOWN ON THE DRAWINGS, BUT NECESSARY TO FULLY COMPLETE THE WORK SHALL BE PROVIDED.
32. ALL EXPOSED CONDUIT TO BE LOCATED IN FIELD WITH OWNER PRIOR TO INSTALLATION.
33. ALL EXPOSED CONDUIT TO BE PAINTED. VERIFY COLOR WITH OWNER.
34. ALL ELECTRICAL ROUGH–IN: EQUIPMENT LAYOUT TO BE VERIFIED IN FIELD WITH OWNER PRIOR TO INSTALLATION.
35. USE LIGHTING PLAN FOR CIRCUITING ONLY. CONTRACTOR TO USE FINISH RCP PLAN FOR LIGHT FIXTURE SPECS. COUNT AND LOCATION.
36. DATA PORT INDICATED ON POWER PLANS IS FOR REFERENCE ONLY. CONTRACTOR TO USE FINISH LOW VOLTAGE PLANS & NOTES FOR SPEC'S, COUNT, LOCATION AND INSTALLATION.

ELECTRICAL LEGEND

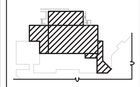
- SIMPLEX ELECTRICAL OUTLET. NUMBER INDICATES CIRCUIT NUMBER.
- GFI — SIMPLEX ELECTRICAL OUTLET. NUMBER INDICATES CIRCUIT NUMBER AND "GFI" INDICATES GROUND FAULT INTERRUPT. WHERE DEDICATED CIRCUIT IS SHOWN VERIFY WITH ARCHITECT APPROPRIATE NEMA VOLTAGE AND AMPERAGE RATING.
- DUPLEX ELECTRICAL OUTLET. NUMBER INDICATES CIRCUIT NUMBER.
- GFI — DUPLEX ELECTRICAL OUTLET. NUMBER INDICATES CIRCUIT NUMBER AND "GFI" INDICATES GROUND FAULT INTERRUPT.
- QUAD ELECTRICAL OUTLET. NUMBER INDICATES CIRCUIT NUMBER AND "GFI" INDICATES GROUND FAULT INTERRUPT.
- COMBINATION FLUSH FLOOR DUPLEX ELECTRICAL OUTLET–VOICE/DATA DEVICE. NUMBER INDICATES CIRCUIT NUMBER.
- AV — COMBINATION WALL MOUNTED DUPLEX ELECTRICAL OUTLET–VOICE/DATA–AUDIO/VISUAL DEVICE. FSR #WB–X2 (LEGRAND PAC SERIES BACKBOX) OR EQUAL.
- SPECIALTY SIMPLEX ELECTRICAL OUTLET. NUMBER INDICATES CIRCUIT NUMBER. 15A, 208/240V, NEMA 6–15R, 20A, 208/240V, NEMA 6–20R. VERIFY WITH EQUIPMENT SPECIFICATIONS.
- VOICE DATA WALL OUTLET – MOUNTED 18"AFF UNLESS NOTED OTHERWISE PROVIDE BACK BOX, COVER PLATE & DRAG LINES, WITH 1" DIA. CONDUIT STUB–UP 6" ABOVE FINISHED CEILING AS REQUIRED. WIRING, JACKS & HOOK–UPS BY OTHERS.
- TELEPHONE WALL OUTLET – MOUNTED 18"AFF UNLESS NOTED OTHERWISE PROVIDE BACK BOX, COVER PLATE & DRAG LINES, WITH 1" DIA. CONDUIT STUB–UP 6" ABOVE FINISHED CEILING AS REQUIRED. WIRING, JACKS & HOOK–UPS BY OTHERS.
- TV — COAXIAL TELEVISION OUTLET – MOUNTED 18"AFF UNLESS NOTED OTHERWISE PROVIDE BACK BOX, COVER PLATE & DRAG LINES, WITH 1" DIA. CONDUIT STUB–UP 6" ABOVE FINISHED CEILING AS REQUIRED. WIRING, JACKS & HOOK–UPS BY OTHERS.
- WALL/CEILING JUNCTION BOX WITH 3/4" (U.O.N.) DIA. CONDUIT STUB–UP 6" ABOVE FINISHED CEILING.
- THERMAL SWITCH
- NEW PANELBOARD
- 30A — HEAVY DUTY TYPE NON–FUSED DISCONNECT SWITCH WITH FINAL FLEXIBLE EQUIPMENT CONNECTION. 30A INDICATES AMPERE RATING 'WP' WHERE USED INDICATES WEATHERPROOF ENCLOSURE (NEMA 3R).
- NEW CEILING MOUNTED SPEAKER
- CEILING MOUNTED WIRELESS ACCESS POINT
- WALL MOUNTED SECURITY CARD READER
- NEW RECESSED DOWNLIGHT 277V. WEATHERPROOF FOR EXTERIOR.
- NEW CEILING MOUNTED LAY–IN 2X2 LIGHT FIXTURE 277V
- NEW CEILING MOUNTED LAY–IN 2X4 LIGHT FIXTURE 277V
- NEW RECESSED LINEAR LIGHT FIXTURE 277V (EM – FURNISH AND INSTALL 90 MINUTE EMERGENCY BATTERY OPTION)
- CEILING MOUNTED LED EXIT SIGN 120V. LUMAPRO OR EQUAL. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
- NEW EMERGENCY LIGHTING WALL PACK
- NEW EXTERIOR EMERGENCY LIGHTING WALL PACK
- PC — PHOTOCELL FOR EXTERIOR LIGHTING CONTROL
- D_T — DUAL (ULTRASONIC AND PASSIVE INFRARED) WALL SWITCH OCCUPANCY SENSOR AUTO/MANUAL CONTROL WITH 1 BUTTON. HUBBELL#AD1277W1. COLOR TO BE WHITE.
- CEILING MOUNTED DUAL TECHNOLOGY (COMBINE PASSIVE INFRARED AND ULTRASONIC) OCCUPANCY SENSOR. WATTSTOPPER DT–300–BZ150.
- DIM 3 — FLUSH WALL MOUNTED LIGHTING CONTROL SWITCH. 3 DENOTES 3–WAY LIGHTING CONTROL SWITCH. DIM DENOTES DIMMING CONTROL SWITCH.
- GFI — GROUND FAULT INTERRUPTER
- WP — WEATHERPROOF
- KP–2 #33 — HOME RUN TO DESIGNATED PANEL AND CIRCUIT #

LIGHT FIXTURE LEGEND

TAG	DESCRIPTION	EQUIVALENT MANUFACTURERS AND CATALOG NUMBER	WATTAGE OR LAMPS	REMARKS
"A","A1"	SUSPENDED LED LIGHT FIXTURE	LUMENWERX VAAR–D–HLO–FH–SW–80CRI–500LMF–35K–60–UNV–D1–1C–W	CONTINUOUS LED	
"B","B1"	SUSPENDED LED LIGHT FIXTURE	LUMENWERX MP4113–CURV2PPAT–DI–HLO–HLO–QUADRO–7WF–LMF–72FT3.1IN–2R60A90–2R72A90–2R72A180–NA–NA–RDMX–1C–MOUNTING–CF(BLUE)	CONTINUOUS LED	
"C"	CEILING MOUNTED 2X2 LED LIGHT FIXTURE	WILLIAMS MCT–D–22–L65–835–AL–F–AF125–DIM–UNV	50.2W LED	
"D"	CEILING MOUNTED SQUARE LED LIGHT FIXTURE	USAI B4SGF–45–33C3–35KS–40–SF–WH–NC–UNV–D6E–CB27	33W LED	
"E"	CEILING MOUNTED SQUARE LED LIGHT FIXTURE	USAI B4SDF–12C3–35KS–50–SF–WH–NCSM–UNV–D6E–CB27	12W LED	
"F"	CEILING MOUNTED ROUND LED LIGHT FIXTURE	WILLIAMS RND–2–L45–835–FFA–DIM–UNV	56.6W LED	
"G"	CEILING MOUNTED 2X2 LED LIGHT FIXTURE	WILLIAMS LT–22–L39–835–AF–DIM–UNV	33.1W LED	
"H"	CEILING MOUNTED 2X4 LED LIGHT FIXTURE	WILLIAMS LT–24–L40–835–AF–DIM–UNV	32W LED	
"H1"	CEILING MOUNTED 2X4 LED LIGHT FIXTURE	WILLIAMS LT–24–L52–835–AF–DIM–UNV	37.2W LED	
"I"	EXTERIOR LED WALL PACK LIGHT FIXTURE	WILLIAMS VWPH–L30–70–40–T3–SLV–SDQL–PC–DIM–UNV	36W LED	
"J"	EXTERIOR WALL MOUNTED LED EGRESS LIGHT FIXTURE	LUMINAIRE LED AEL–48–MIN1–30W–40K–MVOLT–DP–SVH–PC	30W LED	
"J1"	EXTERIOR WALL MOUNTED LED EGRESS LIGHT FIXTURE	LUMINAIRE LED AEL–36–MIN1–10W–40K–MVOLT–DP–SVH–EMB310–PC	10W LED	
"K"	CEILING MOUNTED 1X4 LED LIGHT FIXTURE	WILLIAMS 39–4–L52–835–A–SS12–DIM–UNV	37.2W LED	
"K1"	CEILING MOUNTED 1X4 LED LIGHT FIXTURE	WILLIAMS 39–4–L30–835–A–SS12–DIM–UNV	22.8W LED	
"L"	WALL MOUNTED LED LIGHT FIXTURE	ENVOY LIGHTING EFL55–LED–4–3159–35K–OCC–I–BI–LEV	20W LED	
"L1"	WALL MOUNTED LED LIGHT FIXTURE	ENVOY LIGHTING EFL55–LED–2–3166–35K–OCC–I–BI–LEV	17W LED	
"M"	WALL MOUNTED SQUARE LED LIGHT FIXTURE	ALW CSU4–10–90–35–15–WW–05–90–35–15–DF–R–V01–GO	11.5W LED	
EXIT	WALL/CEILING MOUNTED COMBO EM LED EXIT SIGN WITH DIRECTIONAL INDICATORS WHERE SHOWN	COMPASS (HUBBELL) CELC OR EQUAL	4W LED MAX	

REFER TO ARCHITECTURAL DRAWINGS AND SUBMITTALS FOR ADDITIONAL INFORMATION, QUANTITIES AND SPECIFICATIONS.

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LICENSE EXP. DATE: 03-31-2026

S.E.D. CONTROL NUMBER:
48-06-01-06-0-001-026

PROJECT TITLE
BREWSTER CENTRAL SCHOOL DISTRICT
C.V. STARR INTERMEDIATE SCHOOL
CAFETORIUM ADDITION / INTERIOR RENOVATIONS & RELATED WORK
237 FARM TO MARKET ROAD BREWSTER, NY 10509

DRAWING TITLE
ELECTRICAL NOTES & LEGEND

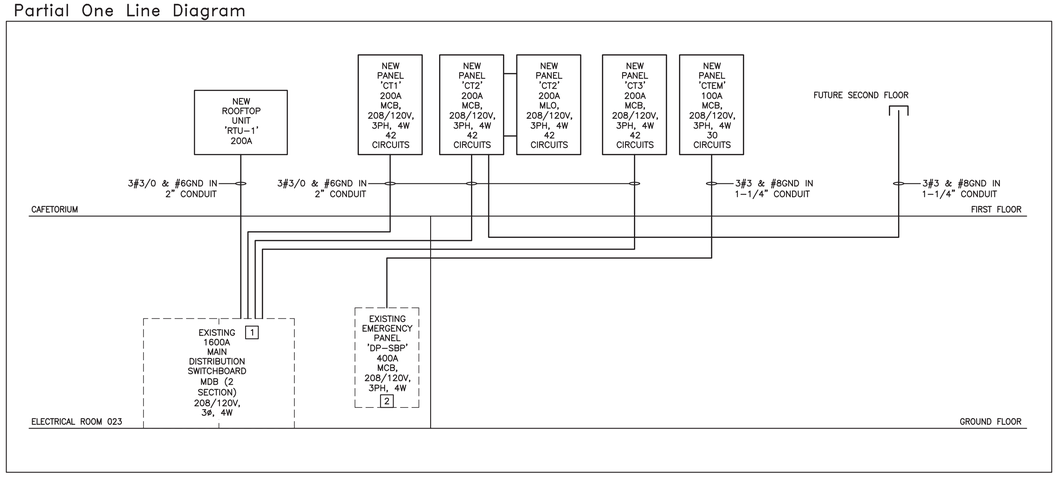
DATE	ISSUED TO
12-09-2024	BID
09-25-2024	ADDENDUM 1
03-05-2024	SED SUBMISSION
11-29-2023	D.D. SUBMISSION
08-31-2023	S.D. SUBMISSION

SHEET SIZE 30"x42" | DRAWING NO. CVS E001
SCALE AS NOTED
DRAWN BY LFG | FILE NO. 23505.02

PLOT DATE: December 02, 2024 – 2:28pm

FILE: N:\Brewster Central Schools\2023 Capital Projects\CV Starr Intermediate School\PACKAGE 2 – Cafetorium\ACAD\Electrical\CVS PKG2_E–001_E–002_E–003.dwg

Partial One Line Diagram



GENERAL NOTES:

1. PROVIDE MATCHING BRANCH CIRCUIT BREAKERS IN EXISTING PANELS FOR NEW LOADS AS SHOWN.
2. COORDINATE EXACT PATHS AND CONDUIT ROUTING WITH BUILDING MANAGEMENT'S RECOMMENDATIONS AND EXISTING ELECTRICAL CONDITIONS.

KEYED NOTES:

1 NEW (4) 200A, 208/120V, 3PH, 4W ELECTRIC SERVICE(S) FROM MAIN BUILDING DISTRIBUTION. UTILIZE EXISTING OR PROVIDE NEW 200A/3P CIRCUIT BREAKER(S) IN SWITCHGEAR AS REQUIRED.

2 PROVIDE NEW 100A/3P CIRCUIT BREAKER IN EXISTING PANEL "DP-SBP" FOR NEW CAFETORIUM EMERGENCY PANEL "CTEM" AS SHOWN.

PANEL SCHEDULE "CT1"

PANEL "CT1" — BUS 200 AMP MAIN CIRCUIT BREAKER — VOLTAGE 120/208V, 3PH, 4 WIRE
LOAD – — POLES 42
MOUNTING SURFACE — SPEC — AIC SYMM 10,000

DESCRIPTION	NOTE	WIRE	GRD.	COND.	TRIP	CKT.	KVA A PHASE	KVA B PHASE	KVA C PHASE	CKT.	TRIP	COND.	GRD.	WIRE	DESCRIPTION	NOTE
HP-1	1	8	10	3/4"	35A	1	2762	6485		2	70A	1 1/4"	8	4	RTU-2	1
						3			2762	6485						
						5				6						
MAU-1	1	12	12	1/2"	20A	7	721	3723		8	45A	1"	10	6	HP-2	1
						9		721	3723	10						
						11			721	3723	12					
ERV-1	1	12	12	1/2"	20A	13	541	1141		14	20A	1/2"	12	12	KX-1	1
						15		541	1141	16						
ERV-2	1	12	12	1/2"	20A	17			1082	1141	18					
						19	1082	458		20	20A	1/2"	12	12	FCU-1, FCU-4, BCC-1	1
FCU-2,3, BCC-2	1	12	12	1/2"	20A	21		354	458	22						
						23			354	146	24	20A	1/2"	12	12	CCU-1,2,3,5,6	1
ERV-3	1	12	12	1/2"	20A	25	541	146		26						
						27		541	924	28	20A	1/2"	12	12	FCU-5,6, CCU-4	1
HOT WATER HEATER (PILOT CIRCUIT)		12	12	1/2"	20A	29			600	924	30					
RECIRCULATION PUMP		12	12	1/2"	20A	31	180	408		32	20A	1/2"	12	12	UAC-1 (AIR CURTAIN)	1
SPARE		12	12	1/2"	20A	33		XXX	XXX	34	20A	1/2"	12	12	SPARE	
SPARE		12	12	1/2"	20A	35			XXX	XXX	36	20A	1/2"	12	12	SPARE	
SPACE						37	XXX	XXX		38					SPACE	
SPACE						39		XXX	XXX	40					SPACE	
SPACE						41			XXX	XXX	42				SPACE	
					SUBTOTAL		18186		17650	17938						
					TOTAL DESIGN LOAD		53774	va	149.3	amps						
					TOTAL CONNECTED LOAD		53774	va	149.3	amps						

(XXX KVA / 208V * √3) = AMPERES

ALT: 90A/3P 3#3 & 1#8G 1-1/4"C.

PANEL SCHEDULE "CT2" SECT. 1

PANEL "CT2" — BUS 200 AMP MAIN CIRCUIT BREAKER — VOLTAGE 120/208V, 3PH, 4 WIRE
LOAD – — POLES 42
MOUNTING SURFACE — SPEC PROVIDE FEED THRU LUGS — AIC SYMM 10,000

DESCRIPTION	NOTE	WIRE	GRD.	COND.	TRIP	CKT.	KVA A PHASE	KVA B PHASE	KVA C PHASE	CKT.	TRIP	COND.	GRD.	WIRE	DESCRIPTION	NOTE
WP/GFI RECEPT ON ROOF	4	12	12	1/2"	20A	1	540	2882		2	40A	3/4"	10	8	ELEVATOR (ALT)	5
LOW VOLTAGE MOTORIZED DAMPERS		12	12	1/2"	20A	3		200	2882	4						
FIRE SHUTTER DOOR	2	12	12	1/2"	20A	5			240	2882	6					
FIRE ALARM BOOSTER POWER SUPPLY	2	12	12	1/2"	20A	7	240	60		8	20A	1/2"	12	12	EF-1 (ALT)	1
ELEVATOR PIT LIGHTING, RECEPT		12	12	1/2"	20A	9		400	1440	10	20A	1/2"	12	12	LIFT	5
TELESCOPING SEATING		12	12	1/2"	20A	11			300	300	12	20A	1/2"	12	12	MOTORIZED PARTITION
						13	300	300		14						
						15		300	300	16						
A/V RACK		12	12	1/2"	20A	17			500	240	18	20A	1/2"	12	12	MOTORIZED PARTITION CONTROLS
LIGHTING RACK		12	12	1/2"	20A	19	500	620		20	20A	1/2"	12	12	PROJECTOR (SCREEN)	
SOUND SYSTEM		12	12	1/2"	20A	21		500	240	22	20A	1/2"	12	12	MAGNETIC DOOR HOLD OPEN DEVICES	
AOR SYSTEM COMMAND PANEL		12	12	1/2"	20A	23			120	540	24	20A	1/2"	12	12	RECEPTACLES
MONITOR/WALL DISPLAY		12	12	1/2"	20A	25	500	540		26	20A	1/2"	12	12	RECEPTACLES
DOOR ENTRY SYSTEM	2	12	12	1/2"	20A	27		500	540	28	20A	1/2"	12	12	RECEPTACLES
FOOD PROTECTOR(S) (E-65)	2	12	12	1/2"	20A	29			120	852	30	20A	1/2"	12	12	COLD FOOD COUNTER (E-64)
FOOD PROTECTOR(S) (E-65)	2	12	12	1/2"	20A	31	120	240		32	20A	1/2"	12	12	CASHIER COUNTER (E-67)	4
ICE CREAM CASE (E-68)		12	12	1/2"	20A	33		420	240	34	20A	1/2"	12	12	CASHIER COUNTER (E-67)	4
ICE CREAM CASE (E-68)		12	12	1/2"	20A	35			420	240	36	20A	1/2"	12	12	GAS SHUTOFF VALVE	2
FUTURE SECOND FLOOR		3	8	1 1/4"	100A	37	XXX	240		38	20A	1/2"	12	12	HEAT TRACE TAPE	2
						39		XXX	XXX	40					SPACE	
						41			XXX	XXX	42				SPACE	
					SUBTOTAL		7082		7962	6754						
					TOTAL DESIGN LOAD		21798	va	60.5	amps						
					TOTAL CONNECTED LOAD		21798	va	60.5	amps						

(XXX KVA / 208V * √3) = AMPERES

PANEL SCHEDULE "CTEM"

PANEL "CTEM" — BUS 100 AMP MAIN CIRCUIT BREAKER — VOLTAGE 120/208V, 3PH, 4 WIRE
LOAD – — POLES 42
MOUNTING SURFACE — SPEC — AIC SYMM 10,000

DESCRIPTION	NOTE	WIRE	GRD.	COND.	TRIP	CKT.	KVA A PHASE	KVA B PHASE	KVA C PHASE	CKT.	TRIP	COND.	GRD.	WIRE	DESCRIPTION	NOTE
CU-2 (ITEM 5)	1	12	12	1/2"	20A	1	1429	624		2	20A	1/2"	12	12	CU-1 (ITEM 11)	1
						3		1429	624	4						
						5			1429	624	6					
EV-2 (ITEM 5)	2	12	12	1/2"	20A	7	1581	216		8	20A	1/2"	12	12	EV-1 (ITEM 11)	2
						9		1581	1872	10	30A	1/2"	10	10	DUPLEX EJECTOR PUMPS	
ELEVATOR SUMP PUMP	4	12	12	1/2"	20A	11			960	1872	12					
EMERGENCY LIGHTING	2	12	12	1/2"	20A	13	1865	81		14	20A	1/2"	12	12	EXIT SIGNS	2
EXTERIOR LIGHTING		12	12	1/2"	20A	15		644	XXX	16	20A	1/2"	12	12	EMERGENCY LOADS (FUTURE)	
EMERGENCY LOADS (FUTURE)		12	12	1/2"	20A	17			XXX	XXX	18	20A	1/2"	12	12	EMERGENCY LOADS (FUTURE)
EMERGENCY LOADS (FUTURE)		12	12	1/2"	20A	19	XXX	XXX		20	20A	1/2"	12	12	EMERGENCY LOADS (FUTURE)	
EMERGENCY LOADS (FUTURE)		12	12	1/2"	20A	21		XXX	XXX	22	20A	1/2"	12	12	SPARE	
SPARE		12	12	1/2"	20A	23			XXX	XXX	24	20A	1/2"	12	12	SPARE	
SPACE						25	XXX	XXX		26					SPACE	
SPACE						27		XXX	XXX	28					SPACE	
SPACE						29			XXX	XXX	30				SPACE	
					SUBTOTAL		5778		6150	4885						
					TOTAL DESIGN LOAD		16813	va	46.7	amps						
					TOTAL CONNECTED LOAD		16813	va	46.7	amps						

(XXX KVA / 208V * √3) = AMPERES

PANEL SCHEDULE "CT2" SECT. 2

PANEL "CT2" — BUS 200 AMP MAIN LUG ONLY — VOLTAGE 120/208V, 3PH, 4 WIRE
LOAD – — POLES 42
MOUNTING SURFACE — SPEC FED FROM SECT. 1 — AIC SYMM 10,000

DESCRIPTION	NOTE	WIRE	GRD.	COND.	TRIP	CKT.	KVA A PHASE	KVA B PHASE	KVA C PHASE	CKT.	TRIP	COND.	GRD.	WIRE	DESCRIPTION	NOTE
LIGHTING		12	12	1/2"	20A	43	1492	1492		44	20A	1/2"	12	12	LIGHTING	
LIGHTING		12	12	1/2"	20A	45		1492	1492	46	20A	1/2"	12	12	LIGHTING	
LIGHTING		12	12	1/2"	20A	47			1492	1246	48	20A	1/2"	12	12	LIGHTING
LIGHTING		12	12	1/2"	20A	49	912	1722		50	20A	1/2"	12	12	LIGHTING	
LIGHTING		12	12	1/2"	20A	51		1876	1729	52	20A	1/2"	12	12	LIGHTING	
LIGHTING		12	12	1/2"	20A	53			721	1200	54	20A	1/2"	12	12	GFI RECEPTACLES/HAND DRYERS
GFI RECEPTACLES/HAND DRYERS		12	12	1/2"	20A	55	1600	1600		56	20A	1/2"	12	12	GFI RECEPTACLES/HAND DRYERS	
GFI RECEPTACLES		12	12	1/2"	20A	57		540	720	58	20A	1/2"	12	12	RECEPTACLES	
FLOOR RECEPTACLE		12	12	1/2"	20A	59			500	540	60	20A	1/2"	12	12	QUAD RECEPTACLES
RECEPTACLES		12	12	1/2"	20A	61	720	960		62	20A	1/2"	12	12	RECEPTACLES	
GFI RECEPTACLES		12	12	1/2"	20A	63		540	1440	64	20A	1/2"	12	12	GFI RECEPTACLES - WATER FOUNTAIN	
RECEPTACLES		12	12	1/2"	20A	65			960	540	66	20A	1/2"	12	12	QUAD RECEPTACLES
RECEPTACLES		12	12	1/2"	20A	67	540	540		68	20A	1/2"	12	12	QUAD RECEPTACLES	
RECEPTACLES		12	12	1/2"	20A	69		720	720	70	20A	1/2"	12	12	RECEPTACLES	
QUAD RECEPTACLES		12	12	1/2"	20A	71			540	540	72	20A	1/2"	12	12	QUAD RECEPTACLES
SPARE		12	12	1/2"	20A	73	XXX	XXX		74	20A	1/2"	12	12	SPARE	
SPARE		12	12	1/2"	20A	75		XXX	XXX	76	20A	1/2"	12	12	SPARE	
SPARE		12	12	1/2"	20A	77			XXX	XXX	78	20A	1/2"	12	12	SPARE
SPACE						79	XXX	XXX		80					SPACE	
SPACE						81		XXX	XXX	82					SPACE	
SPACE						83			XXX	XXX	84				SPACE	
					SUBTOTAL		11578		11269	8279						
					TOTAL DESIGN LOAD		31126	va	86.4	amps						
					TOTAL CONNECTED LOAD		31126	va	86.4	amps						

(XXX KVA / 208V * √3) = AMPERES

PANEL SCHEDULE "CT3"

PANEL "CT3" — BUS 200 AMP MAIN CIRCUIT BREAKER — VOLTAGE 120/208V, 3PH, 4 WIRE
LOAD – — POLES 42
MOUNTING SURFACE — SPEC — AIC SYMM 10,000

DESCRIPTION	NOTE	WIRE	GRD.	COND.	TRIP	CKT.	KVA A PHASE	KVA B PHASE	KVA C PHASE	CKT.	TRIP	COND.	GRD.	WIRE	DESCRIPTION	NOTE
WALK-IN FREEZER (E-4)	2	12	12	1/2"	20A	1	1440	408		2	20A	1/2"	12	12	AIR CURTAIN (E-6)	2
WALK-IN COOLER (E-10)	2	12	12	1/2"	20A	3		1440	408	4	20A	1/2"	12	12	AIR CURTAIN (E-6)	2
OVEN-STEAMER (E-19)	5	12	12	1/2"	20A	5			1248	1248	6	20A	1/2"	12	12	OVEN-STEAMER (E-20)	5
						7	1248	1248		8						
CONVECTION OVEN (E-22)	5	12	12	1/2"	20A	9		1176	1176	10	20A	1/2"	12	12	CONVECTION OVEN (E-22)	5
STEAM KETTLE (E-24)	5	12	12	1/2"	20A	11			1200	12	12	20A	1/2"	12	12	GAS RANGE (E-25)	5
EXHAUST HOOD CONTROL PANEL	2	12	12	1/2"	20A	13	240	240		14	20A	1/2"	12	12	FIRE SUPPRESSION CONTROL PANEL	2
WAREWASHER (E-36)	2	6	10	1"	60A	15		5164	240	16	20A	1/2"	12	12	DRAIN KIT (FOR ITEM 36)	4
						17			5164	240	18	20A	1/2"	12	12	WORK TABLE (E-40)	4
						19	5164	240		20	20A	1/2"	12	12	WORK TABLE (E-43)	4
REFRIGERATOR (E-39)		12	12	1/2"	20A	21			1260	360	22	20A	1/2"	12	12	FOOD SLICER (E-45)	
WORK TABLE (E-46)	4	12	12	1/2"	20A	23			240	240	24	20A	1/2"	12	12	PREP TABLE (E-48)	4
REFRIGERATOR (E-51)		12	12	1/2"	20A	25	1260	1560		26	20A	1/2"	12	12	HEATED CABINET (E-52)	
REFRIGERATOR (E-53)		12	12	1/2"	20A	27		1224	1560	28	20A	1/2"	12	12	HEATED CABINET (E-52)	
REFRIGERATOR (E-53)		12	12	1/2"	20A	29			1224	240	30	20A	1/2"	12	12	WORK COUNTER (E-54)	4
MILK COOLER (E-59)		12	12	1/2"	20A	31	324	240		32	20A	1/2"	12	12	WORK COUNTER (E-55)	4
MILK COOLER (E-59)		12	12	1/2"	20A	33		324	1123	34	20A	1/2"	12	12	HOT FOOD COUNTER (E-60)	2
HOT FOOD COUNTER (E-60)	2	12	12	1/2"	20A	35			1123	1123	36					
						37	1123	120		38	20A	1/2"	12	12	FOOD PROTECTOR(S) (E-61)	2
FLAT TOP COUNTER (E-62)		12	12	1/2"	20A	39		240	120	40	20A	1/2"	12	12	FOOD PROTECTOR(S) (E-61)	2
FLAT TOP COUNTER (E-62)		12	12	1/2"	20A	41			240	852	42	20A	1/2"	12	12	COLD FOOD COUNTER (E-64)
					SUBTOTAL		14855		15815	14394						
					TOTAL DESIGN LOAD		45064	va	125.1	amps						
					TOTAL CONNECTED LOAD		45064	va	125.1	amps						

(XXX KVA / 208V * √3) = AMPERES

1. PROVIDE HACR TYPE CIRCUIT BREAKERS
2. PROVIDE LOCKING CLIPS
3. VERIFY POWER REQUIREMENTS FOR ACTUAL EQUIPMENT BEFORE INSTALLATION
4. PROVIDE GFI CIRCUIT BREAKER
5. PROVIDE SHUNT TRIP CIRCUIT BREAKER (CONTROLLED BY ANSUL SYSTEM FOR KITCHEN)

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LFG LANDAUER FUNDING GROUP, INC.
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(203) 866-8000 Phone
(203) 866-8019 Fax

LICENSE EXP. DATE: 03-31-2026

S.E.D. CONTROL NUMBER:
48-06-01-06-0-001-026

PROJECT TITLE: BREWSTER CENTRAL SCHOOL DISTRICT C.V. STARR INTERMEDIATE SCHOOL CAFETORIUM ADDITION, INTERIOR RENOVATIONS AND ATHLETIC TRACK
20 FARM TO MARKET ROAD BREWSTER, NY 10509

DRAWING TITLE: ELECTRICAL SCHEDULES

DATE	ISSUED TO
12-09-2024	BID
09-25-2024	ADDENDUM 1
03-05-2024	SED SUBMISSION
11-29-2023	D.D. SUBMISSION
08-31-2023	S.D. SUBMISSION

SHEET SIZE 30"x42" — DRAWING NO. CVS E002
SCALE AS NOTED
DRAWN BY LFG — FILE NO. 23505.02

PLOT DATE: December 02, 2024 - 2:28pm

FILE: N:\Brewster Central Schools\2023 Capital Projects\CV Starr Intermediate School\PACKAGE 2 - Cafetorium\ACAD\Electrical\CVS PKG2_E-001_E-002_E-003.dwg

EQUIPMENT SCHEDULE

ITEM NO (E-#)	EQUIPMENT CATEGORY	QTY		HP	KW	AMPS (NOMINAL)	PLUG	DIRECT	VOLTS	PHASE	NEMA	MANUFACTURER	MODEL NUMBER	EQUIPMENT REMARKS
4	WALK-IN FREEZER	1				15.0		X	120	1		THERMAL RITE	CUSTOM	
5	REFRIGERATION TO ITEM #4	1				11.9		X	208	3		RDT POLARCRAFT	PCL035ZCT3A	COMPRESSOR UNIT
						15.2		X	208	1			BEL0130	EVAPORATOR COILS UNIT
6	AIR CURTAIN, UNHEATED	2		0.2	0.3	3.4	X		120	1	5-15P	BERNER	CLC08-1036A	
10	WALK-IN COOLER	1				15.0		X	120	1		THERMAL RITE	PCM009ZCT3A	
11	REFRIGERATION TO ITEM #10	1				5.2		X	208	3		RDT POLARCRAFT	BEL0095	COMPRESSOR UNIT
						1.8		X	120	1				EVAPORATOR COILS UNIT
19	OVEN-STEAMER, COMBI, GAS	1			0.9	12.0	X		208	1	6-20P	RATIONAL	ICP-6 FULL NG	C.W. PIPED FROM ITEM #17
20	OVEN-STEAMER, COMBI, GAS	1			0.9	12.0	X		208	1	6-20P	RATIONAL	ICP-6 FULL NG	C.W. PIPED FROM ITEM #17
22	OVEN, CONVECTION, GAS	1				9.8	X		120	1	5-15P	GARLAND	MCO-GS-20-ESS	
						9.8	X		120	1	5-15P			
24	KETTLE, STEAM JACKETED	1				10.0	X		120	1	5-15P	CLEVELAND RANGE	KGL-40-T	
25	RANGE, HEAVY DUTY, GAS	1				0.1	X		120	1	5-15P	GARLAND	MST44R-E	
26	EXHAUST HOOD, TYPE I	1	ALL DATA ON FANS, DUCTS, POWER, SWITCHES, ETC...			BY M.E.P.			3,000 C.F.M.			CAPTIVE AIRE	CUSTOM	
27	SUPPLY PLENUM, MAKE-UP AIR	1	ALL DATA ON FANS, DUCTS, POWER, SWITCHES, ETC...			BY M.E.P.			2,500 C.F.M.			CAPTIVE AIRE	CUSTOM	
29	EXHAUST HOOD, CONTROL PANEL	1				2.0		X	120	1		CAPTIVE AIRE	CUSTOM	
30	FIRE PROTECTION SYSTEM	1				2.0		X	120	1		CAPTIVE AIRE	UL-300 (R-102)	
36	DOOR-TYPE WAREWASHER, VENTLESS	1				46.0		X	208	3		CHAMPION INDUSTRIES	DH6000T-VHR	
						2.0	X		120	1	5-15P			DRAIN TEMPERING KIT
39	REFRIGERATOR, PASS-THRU	1				10.5	X		120	1	5-15P	UTILITY REFRIGERATOR	PT-R-30-SS-2S-2S-D	
40	ADA WORK TABLE W/ SINK	1				2.0	X		120	1	5-15R	IMC/TEDDY	CUSTOM	
43	WORK TABLE W/ SINK	1				2.0	X		120	1	5-15R	IMC/TEDDY	CUSTOM	
45	SLICER, FOOD	1		0.5		3.0	X		120	1	5-15P	GLOBE FOOD EQUIPMENT	G12A	
46	WORK TABLE	1				2.0	X		120	1	5-15R	IMC/TEDDY	CUSTOM	
48	2-COMPARTMENT, PREP. TABLE	1				2.0	X		120	1	5-15R	IMC/TEDDY	CUSTOM	
51	REFRIGERATOR, PASS-THRU	1				10.5	X		120	1	5-15P	UTILITY REFRIGERATOR	PT-R-30-SS-2S-2S-D	
52	CABINET, HEATED, ROLL-THRU	2			1.5	13.0	X		120	1	5-15P	UTILITY REFRIGERATOR	RTHC-30-SS-1S-1S-H	
53	REFRIGERATOR, ROLL-THRU	2		0.5		10.2	X		120	1	5-15P	UTILITY REFRIGERATOR	RTR-30-SS-1S-1S-H	
54	WORK COUNTER, STORAGE BASE	1				2.0	X		120	1	5-15R	IMC/TEDDY	CUSTOM	
55	WORK COUNTER, STORAGE BASE	1				2.0	X		120	1	5-15R	IMC/TEDDY	CUSTOM	
59	MILK COOLER	2				2.7	X		120	1	5-15P	TRUE MFG.	TMC-49-S-SS-HC	
60	HOT FOOD COUNTER	2				10.8	X		208	1	6-15P	LTI	SIM-TW-4-60	
61	FOOD PROTECTOR(S), ADJUSTABLE	2				1.0		X	120	1		PREMIER METAL & GLASS	TM2N-A	
62	FLAT TOP COUNTER	2				2.0	X		120	1	5-15R	LTI	SIM-ST-28	
64	COLD FOOD COUNTER	2		0.2		7.1	X		120	1	5-15P	LTI	SIM-TA-60	
65	FOOD PROTECTOR(S), ADJUSTABLE	2				1.0		X	120	1		PREMIER METAL & GLASS	TM2N-A	
67	CASHIER COUNTER	2				2.0	X		120	1	5-15R	LTI	SIM-CSE-28	
68	NOVELTY CASE, ICE CREAM	2		0.2		3.5	X		120	1	5-15P	BEVERAGE-AIR	NC43-1-W	

ELECTRICAL CONTRACTOR SHALL FIELD VERIFY ALL EQUIPMENT ELECTRICAL REQUIREMENTS WITH EXACT EQUIPMENT PROVIDED AND COORDINATE WITH EQUIPMENT SPECIFICATIONS PRIOR TO INSTALLATION. NOTIFY ENGINEER IF ELECTRICAL DEVICES AND FEEDER SIZES REQUIRE ADJUSTING TO SUIT ANY DISCREPANCIES.

AS PER USA CONGRESS ARCHITECTURAL WORKS COPYRIGHT PROTECTION ACT OF 1990 ALL IDEAS AND DESIGNS INCLUDING DERIVATIVES THEREOF, ALL DRAWINGS AND SPECIFICATIONS CONSTITUTE THE ORIGINAL COPYRIGHT WORK BY FULLER AND D'ANGELO, P.C. (F&D). THE DRAWINGS AND SPECIFICATIONS AS INSTRUMENTS OF SERVICE BY F&D ARE CREATED BY F&D FOR THIS PROJECT ONLY AND REMAIN THE PRODUCT AND PROPERTY OF F&D. ANY REPRODUCTION WITHOUT THE PRIOR CONSENT OF F&D IS PROHIBITED.

KEY PLAN

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20170RM1-ARch-Sheets-FULLERDANGELO.rvt

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LICENSE EXP. DATE: 03-31-2026

S.E.D. CONTROL NUMBER:
48-06-01-06-0-001-026

PROJECT TITLE:
BREWSTER CENTRAL SCHOOL DISTRICT
C.V. STARR INTERMEDIATE SCHOOL
RENOVATIONS & ADDITION, INTERIOR
CAFETORIUM ADDITION & KITCHEN
20170RM1 TO MARKET ROAD BREWSTER, NY 10509

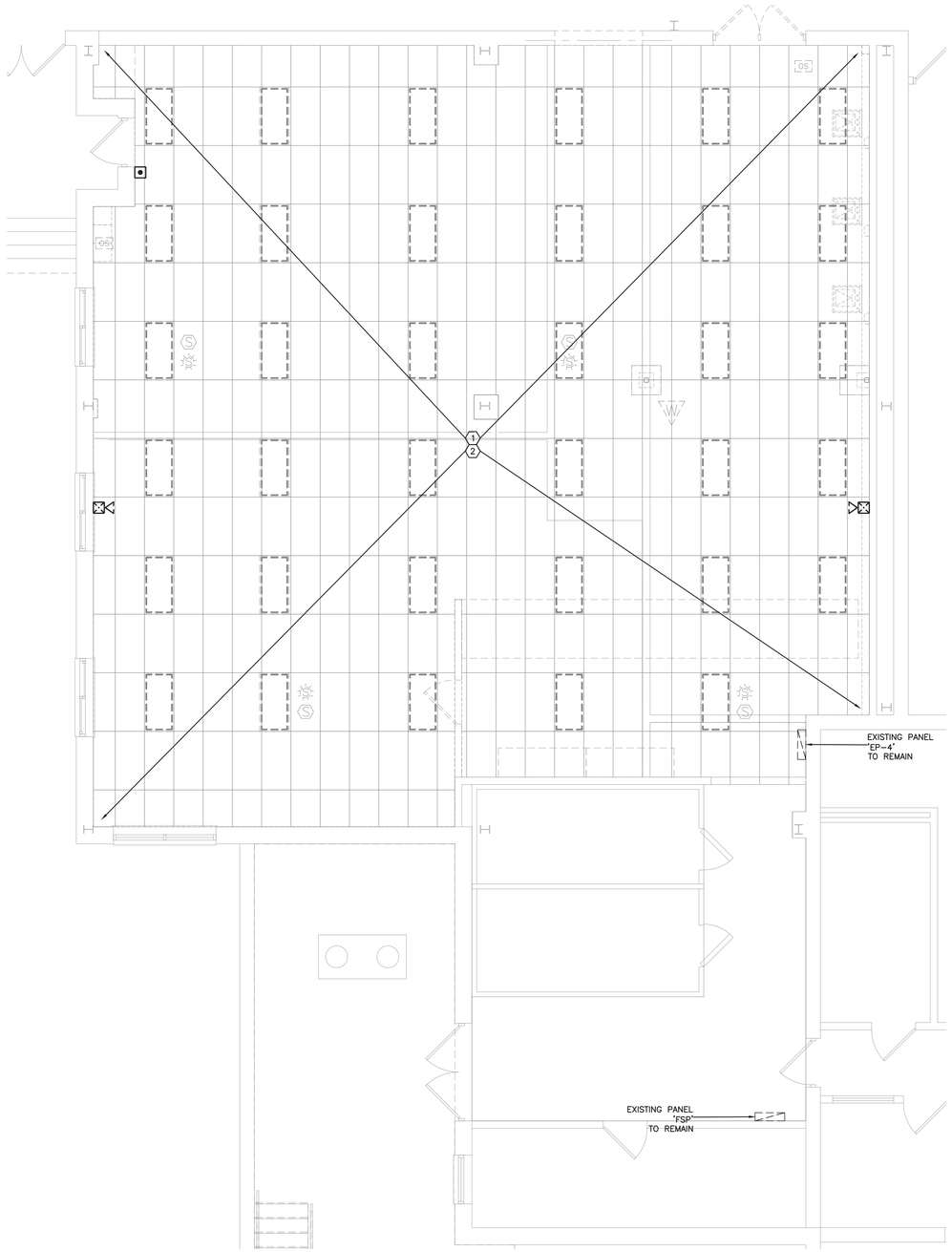
DRAWING TITLE:
KITCHEN EQUIPMENT SCHEDULES

DATE	ISSUED TO
12-09-2024	BID
09-25-2024	ADDENDUM 1
03-05-2024	SED SUBMISSION
11-29-2023	D.D. SUBMISSION
08-31-2023	S.D. SUBMISSION

SHEET SIZE: 30"x42"
DRAWING NO.: CVS E003
SCALE: AS NOTED
DRAWN BY: LFG
FILE NO.: 23505.02

PLOT DATE: December 02, 2024 - 2:29pm

FILE: N:\Brewster Central Schools\2023 Capital Projects\CV Starr Intermediate School\PACKAGE 2 - Cafetorium\ACAD\Electrical\CVS PKG2_E-001_E-002_E-003.dwg



1 ELECTRICAL LIGHTING AND POWER DEMO PLAN
SCALE: 1/4" = 1'-0"

GENERAL NOTES:

1. ALL DEMOLITION WORK TO BE COORDINATED WITH BUILDING MANAGER TO AVOID DISTURBANCES TO OTHER OCCUPANTS. ALL DEMOLITION WORK TO BE DONE DURING THE HOURS DESIGNATED.
2. MAINTAIN STABLE AND SAFE CONDITIONS AT ALL TIMES, TAKING CAUTION TO PROTECT THE EXISTING AND ADJACENT BUILDINGS, THEIR OCCUPANTS, STREET FRONT AND THE PUBLIC.
3. DEMOLISHED MATERIAL, NOT IDENTIFIED FOR SALVAGE BY THE OWNER, SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE COMPLETELY REMOVED FROM THE JOB SITE.
4. PROVIDE PROTECTION TO ALL EXISTING ELECTRICAL, MECHANICAL, PLUMBING, AND SPRINKLER EQUIPMENT TO REMAIN.
5. COORDINATE WITH GENERAL CONTRACTOR TO REMOVE ALL ABANDONED ELECTRICAL CABLES FROM EXISTING LOCATIONS, TRACE BACK TO THEIR SOURCE AND TAG.
6. ALL LIFE SAFETY EQUIPMENT AND ASSOCIATED CONDUIT AND WIRING SHALL BE PROTECTED FROM ANY PHYSICAL DAMAGE DURING DEMOLITION AND/OR CONSTRUCTION UNLESS BEING REPLACED WITH NEW.
7. THE SCOPE OF THE DEMOLITION WORK HAS GENERALLY BEEN INDICATED ON THE DRAWING FOR CONTRACTORS INFORMATION. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO DETERMINE THE FULL SCOPE, EXTENT, NATURE AND MANNER OF DEMOLITION REQUIRED.
8. ONLY WORKMEN SKILLED AND KNOWLEDGEABLE IN THEIR RESPECTIVE TRADES SHALL BE ENGAGED IN THE DEMOLITION OF ANY WORK.
9. CONTRACTORS SHALL TAKE SPECIAL CARE TO DEMOLISH ONLY THAT WORK WHICH IS REQUIRED TO BE DEMOLISHED AND NOT TO DISTURB ANY WORK WHICH IS TO REMAIN. IF IN THE COURSE OF DEMOLITION, CONTRACTOR DESTROYS OR DISTURBS ANY WORK WHICH IS TO REMAIN, THEN HE SHALL AT HIS OWN EXPENSE, REPAIR OR REPLACE SUCH WORK AS NECESSARY.
10. ALL PAINTING AND PATCHING FOR DEMOLITION NOTED ON DRAWINGS SHALL BE PERFORMED BY THE ELECTRICAL CONTRACTOR.
11. DO NOT SCALE DRAWINGS.

DEMOLITION CODED NOTES

(1) ELECTRICAL CONTRACTOR SHALL REMOVE ALL LIGHT FIXTURES, CEILING MOUNTED LIGHTING CONTROL DEVICES AND OTHER CEILING AND WALL MOUNTED ELECTRICAL DEVICES. ELECTRICAL CONTRACTOR SHALL REMOVE WIRING IN ROOM, BUT LEAVE HOMERUN FROM ROOM TO PANEL, AND WIRING FROM ROOM TO ROOM IF FOR REUSE. COORDINATE WITH GC FOR CEILING REMOVAL.

(2) ELECTRICAL CONTRACTOR SHALL REMOVE ALL FIRE ALARM DEVICES. ELECTRICAL CONTRACTOR SHALL RETAIN WIRING IN ROOM IF NECESSARY AND LEAVE HOMERUN FROM ROOM TO PANEL, AND WIRING FROM ROOM TO ROOM FOR REUSE. COORDINATE WITH GC FOR WALL REMOVAL.

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KEY PLAN

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LICENSE EXP. DATE: 03-31-2026

S.E.D. CONTROL NUMBER:
48-06-01-06-0-001-026

PROJECT TITLE:
BREWSTER CENTRAL SCHOOL DISTRICT
C.V. STARR INTERMEDIATE SCHOOL
CAFETORIUM ADDITION, INTERIOR RENOVATIONS & SITE WORK
20 FARM TO MARKET ROAD BREWSTER, NY 10509

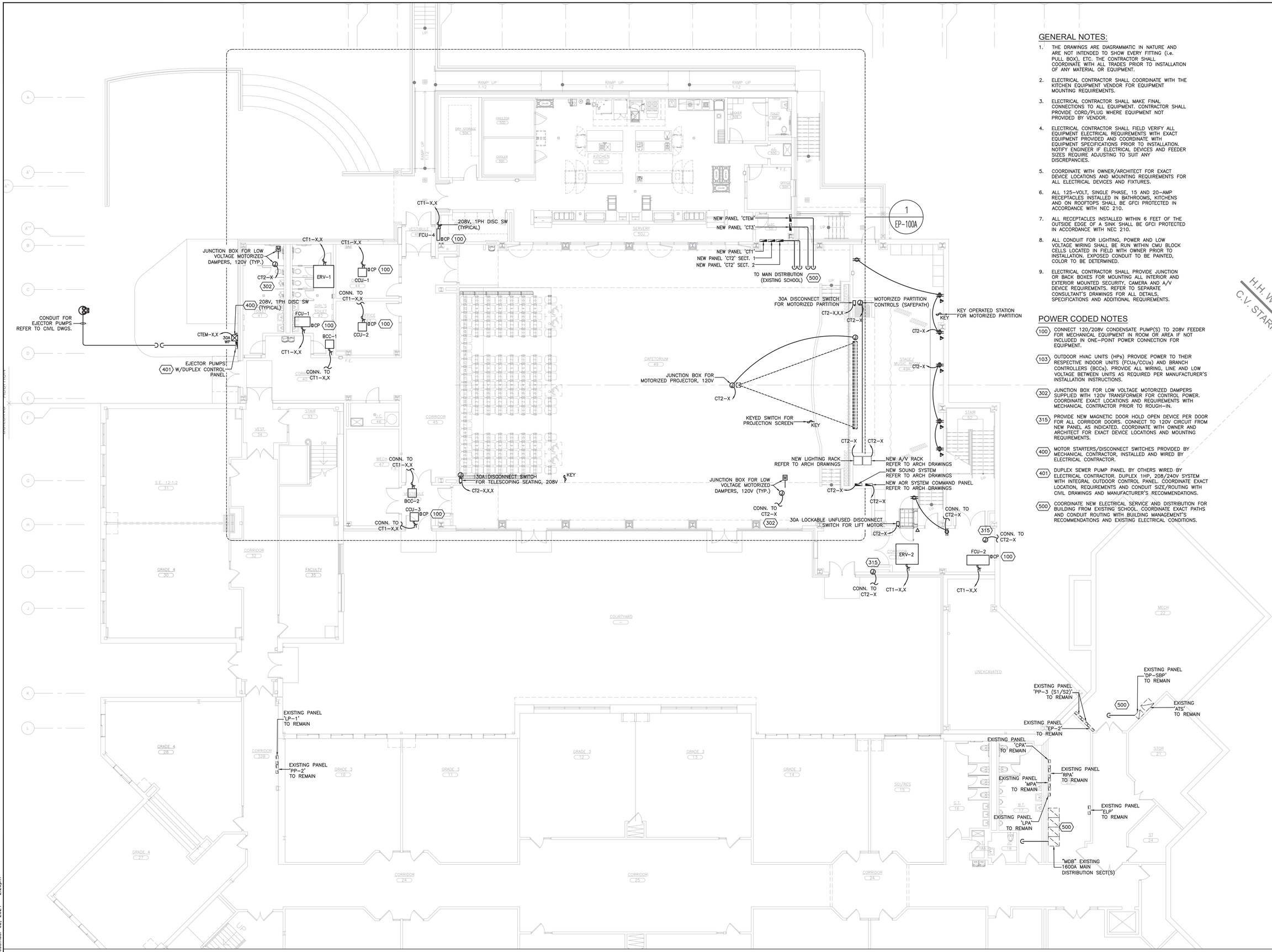
DRAWING TITLE:
FIRST FLOOR ELECTRICAL LIGHTING AND POWER DEMO PLAN

DATE	ISSUED TO
12-09-2024	BID
09-25-2024	ADDENDUM 1
03-05-2024	SED SUBMISSION
11-29-2023	D.D. SUBMISSION
08-31-2023	S.D. SUBMISSION

SHEET SIZE: 30"x42"
DRAWING NO.: CVS ED101
SCALE: AS NOTED
DRAWN BY: LFG
FILE NO.: 23505.02

PLOT DATE: December 02, 2024 - 2:27pm

FILE: N:\Brewster Central Schools\2023 Capital Projects\CV Starr Intermediate School\PACKAGE 2 - Cafetorium\ACAD\Electrical\CVS PKG2_ED-101.dwg



1 ELECTRICAL POWER PLAN
SCALE: 1/8" = 1'-0"

GENERAL NOTES:

1. THE DRAWINGS ARE DIAGRAMMATIC IN NATURE AND ARE NOT INTENDED TO SHOW EVERY FITTING (i.e. PULL BOX), ETC. THE CONTRACTOR SHALL COORDINATE WITH ALL TRADES PRIOR TO INSTALLATION OF ANY MATERIAL OR EQUIPMENT.
2. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE KITCHEN EQUIPMENT VENDOR FOR EQUIPMENT MOUNTING REQUIREMENTS.
3. ELECTRICAL CONTRACTOR SHALL MAKE FINAL CONNECTIONS TO ALL EQUIPMENT. CONTRACTOR SHALL PROVIDE CORD/PLUG WHERE EQUIPMENT NOT PROVIDED BY VENDOR.
4. ELECTRICAL CONTRACTOR SHALL FIELD VERIFY ALL EQUIPMENT ELECTRICAL REQUIREMENTS WITH EXACT EQUIPMENT PROVIDED AND COORDINATE WITH EQUIPMENT SPECIFICATIONS PRIOR TO INSTALLATION. NOTIFY ENGINEER IF ELECTRICAL DEVICES AND FEEDER SIZES REQUIRE ADJUSTING TO SUIT ANY DISCREPANCIES.
5. COORDINATE WITH OWNER/ARCHITECT FOR EXACT DEVICE LOCATIONS AND MOUNTING REQUIREMENTS FOR ALL ELECTRICAL DEVICES AND FIXTURES.
6. ALL 125-VOLT, SINGLE PHASE, 15 AND 20-AMP RECEPTACLES INSTALLED IN BATHROOMS, KITCHENS AND ON ROOFTOPS SHALL BE GFCI PROTECTED IN ACCORDANCE WITH NEC 210.
7. ALL RECEPTACLES INSTALLED WITHIN 6 FEET OF THE OUTSIDE EDGE OF A SINK SHALL BE GFCI PROTECTED IN ACCORDANCE WITH NEC 210.
8. ALL CONDUIT FOR LIGHTING, POWER AND LOW VOLTAGE WIRING SHALL BE RUN WITHIN CMU BLOCK CELLS LOCATED IN FIELD WITH OWNER PRIOR TO INSTALLATION. EXPOSED CONDUIT TO BE PAINTED, COLOR TO BE DETERMINED.
9. ELECTRICAL CONTRACTOR SHALL PROVIDE JUNCTION OR BACK BOXES FOR MOUNTING ALL INTERIOR AND EXTERIOR MOUNTED SECURITY, CAMERA AND A/V DEVICE REQUIREMENTS. REFER TO SEPARATE CONSULTANT'S DRAWINGS FOR ALL DETAILS, SPECIFICATIONS AND ADDITIONAL REQUIREMENTS.

POWER CODED NOTES

(100) CONNECT 120/208V CONDENSATE PUMP(S) TO 208V FEEDER FOR MECHANICAL EQUIPMENT IN ROOM OR AREA IF NOT INCLUDED IN ONE-POINT POWER CONNECTION FOR EQUIPMENT.

(103) OUTDOOR HVAC UNITS (HPs) PROVIDE POWER TO THEIR RESPECTIVE INDOOR UNITS (FCUs/CCUs) AND BRANCH CONTROLLERS (BCCs). PROVIDE ALL WIRING, LINE AND LOW VOLTAGE BETWEEN UNITS AS REQUIRED PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.

(302) JUNCTION BOX FOR LOW VOLTAGE MOTORIZED DAMPERS SUPPLIED WITH 120V TRANSFORMER FOR CONTROL POWER. COORDINATE EXACT LOCATIONS AND REQUIREMENTS WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.

(315) PROVIDE NEW MAGNETIC DOOR HOLD OPEN DEVICE PER DOOR FOR ALL CORRIDOR DOORS. CONNECT TO 120V CIRCUIT FROM NEW PANEL AS INDICATED. COORDINATE WITH OWNER AND ARCHITECT FOR EXACT DEVICE LOCATIONS AND MOUNTING REQUIREMENTS.

(400) MOTOR STARTERS/DISCONNECT SWITCHES PROVIDED BY MECHANICAL CONTRACTOR, INSTALLED AND WIRED BY ELECTRICAL CONTRACTOR.

(401) DUPLEX SEWER PUMP PANEL BY OTHERS WIRED BY ELECTRICAL CONTRACTOR. DUPLEX 1HP, 208/240V SYSTEM WITH INTEGRAL OUTDOOR CONTROL PANEL. COORDINATE EXACT LOCATION, REQUIREMENTS AND CONDUIT SIZE/ROUTING WITH CIVIL DRAWINGS AND MANUFACTURER'S RECOMMENDATIONS.

(500) COORDINATE NEW ELECTRICAL SERVICE AND DISTRIBUTION FOR BUILDING FROM EXISTING SCHOOL. COORDINATE EXACT PATHS AND CONDUIT ROUTING WITH BUILDING MANAGEMENT'S RECOMMENDATIONS AND EXISTING ELECTRICAL CONDITIONS.

AS PER USA CONGRESS ARCHITECTURAL WORKS COPYRIGHT PROTECTION ACT OF 1990 ALL IDEAS AND DESIGNS INCLUDING DERIVATIVES THEREOF, ALL DRAWINGS AND SPECIFICATIONS CONSTITUTE THE ORIGINAL COPYRIGHT WORK BY FULLER AND D'ANGELO, P.C. (F&D). THE DRAWINGS AND SPECIFICATIONS AS INSTRUMENTS OF SERVICE BY F&D ARE CREATED BY F&D FOR THIS PROJECT ONLY AND REMAIN THE PRODUCT AND PROPERTY OF F&D. ANY REPRODUCTION WITHOUT THE PRIOR CONSENT OF F&D IS PROHIBITED.

KEY PLAN

H.H. WE
C.V. STARR

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LICENSE EXP. DATE: 03-31-2026

S.E.D. CONTROL NUMBER:
48-06-01-06-0-001-026

PROJECT TITLE
BREWSTER CENTRAL SCHOOL DISTRICT
C.V. STARR INTERMEDIATE SCHOOL
CAFETORIUM ADDITION, INTERIOR RENOVATIONS & SITE WORK

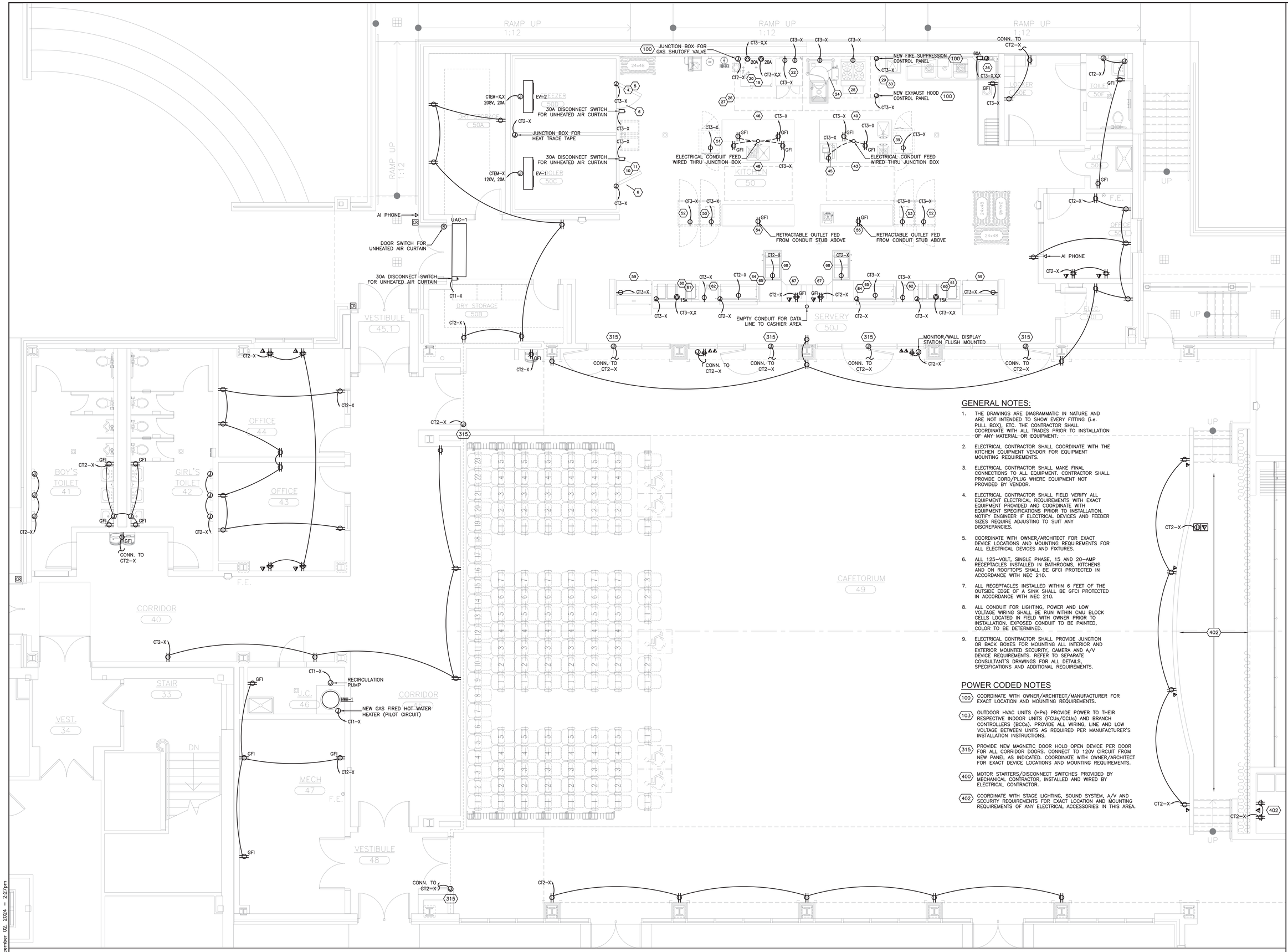
DRAWING TITLE
GROUND FLOOR ELECTRICAL POWER PLAN

DATE	ISSUED TO
12-09-2024	BID
09-25-2024	ADDENDUM 1
03-05-2024	SED SUBMISSION
11-29-2023	D.D. SUBMISSION
08-31-2023	S.D. SUBMISSION

SHEET SIZE 30"x42" | DRAWING NO. CVS EP100
SCALE AS NOTED | FILE NO. 23505.02
DRAWN BY LFG

PLOT DATE: December 02, 2024 - 2:26pm

FILE: N:\Brewster Central Schools\2023 Capital Projects\CV Starr Intermediate School\PACKAGE 2 - Cafetorium\ACAD\Electrical\CVS PKG2_EP-100_EP-100A.dwg



GENERAL NOTES:

1. THE DRAWINGS ARE DIAGRAMMATIC IN NATURE AND ARE NOT INTENDED TO SHOW EVERY FITTING (i.e. PULL BOX), ETC. THE CONTRACTOR SHALL COORDINATE WITH ALL TRADES PRIOR TO INSTALLATION OF ANY MATERIAL OR EQUIPMENT.
2. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE KITCHEN EQUIPMENT VENDOR FOR EQUIPMENT MOUNTING REQUIREMENTS.
3. ELECTRICAL CONTRACTOR SHALL MAKE FINAL CONNECTIONS TO ALL EQUIPMENT. CONTRACTOR SHALL PROVIDE CORD/PLUG WHERE EQUIPMENT NOT PROVIDED BY VENDOR.
4. ELECTRICAL CONTRACTOR SHALL FIELD VERIFY ALL EQUIPMENT ELECTRICAL REQUIREMENTS WITH EXACT EQUIPMENT PROVIDED AND COORDINATE WITH EQUIPMENT SPECIFICATIONS PRIOR TO INSTALLATION. NOTIFY ENGINEER IF ELECTRICAL DEVICES AND FEEDER SIZES REQUIRE ADJUSTING TO SUIT ANY DISCREPANCIES.
5. COORDINATE WITH OWNER/ARCHITECT FOR EXACT DEVICE LOCATIONS AND MOUNTING REQUIREMENTS FOR ALL ELECTRICAL DEVICES AND FIXTURES.
6. ALL 125-VOLT, SINGLE PHASE, 15 AND 20-AMP RECEPTACLES INSTALLED IN BATHROOMS, KITCHENS AND ON ROOFTOPS SHALL BE GFCI PROTECTED IN ACCORDANCE WITH NEC 210.
7. ALL RECEPTACLES INSTALLED WITHIN 6 FEET OF THE OUTSIDE EDGE OF A SINK SHALL BE GFCI PROTECTED IN ACCORDANCE WITH NEC 210.
8. ALL CONDUIT FOR LIGHTING, POWER AND LOW VOLTAGE WIRING SHALL BE RUN WITHIN CMU BLOCK CELLS LOCATED IN FIELD WITH OWNER PRIOR TO INSTALLATION. EXPOSED CONDUIT TO BE PAINTED, COLOR TO BE DETERMINED.
9. ELECTRICAL CONTRACTOR SHALL PROVIDE JUNCTION OR BACK BOXES FOR MOUNTING ALL INTERIOR AND EXTERIOR MOUNTED SECURITY, CAMERA AND A/V DEVICE REQUIREMENTS. REFER TO SEPARATE CONSULTANT'S DRAWINGS FOR ALL DETAILS, SPECIFICATIONS AND ADDITIONAL REQUIREMENTS.

POWER CODED NOTES

- 100 COORDINATE WITH OWNER/ARCHITECT/MANUFACTURER FOR EXACT LOCATION AND MOUNTING REQUIREMENTS.
- 103 OUTDOOR HVAC UNITS (HPs) PROVIDE POWER TO THEIR RESPECTIVE INDOOR UNITS (FCUs/CCUs) AND BRANCH CONTROLLERS (BCCs). PROVIDE ALL WIRING, LINE AND LOW VOLTAGE BETWEEN UNITS AS REQUIRED PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- 315 PROVIDE NEW MAGNETIC DOOR HOLD OPEN DEVICE PER DOOR FOR ALL CORRIDOR DOORS. CONNECT TO 120V CIRCUIT FROM NEW PANEL AS INDICATED. COORDINATE WITH OWNER/ARCHITECT FOR EXACT DEVICE LOCATIONS AND MOUNTING REQUIREMENTS.
- 400 MOTOR STARTERS/DISCONNECT SWITCHES PROVIDED BY MECHANICAL CONTRACTOR, INSTALLED AND WIRED BY ELECTRICAL CONTRACTOR.
- 402 COORDINATE WITH STAGE LIGHTING, SOUND SYSTEM, A/V AND SECURITY REQUIREMENTS FOR EXACT LOCATION AND MOUNTING REQUIREMENTS OF ANY ELECTRICAL ACCESSORIES IN THIS AREA.

1 ELECTRICAL PARTIAL POWER PLAN

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

AS PER USA CONGRESS ARCHITECTURAL WORKS COPYRIGHT PROTECTION ACT OF 1990 ALL IDEAS AND DESIGNS INCLUDING DERIVATIVES THEREOF, ALL DRAWINGS AND SPECIFICATIONS CONSTITUTE THE ORIGINAL COPYRIGHT WORK BY FULLER AND D'ANGELO, P.C. (F&D). THE DRAWINGS AND SPECIFICATIONS AS INSTRUMENTS OF SERVICE BY F&D ARE CREATED BY F&D FOR THIS PROJECT ONLY AND REMAIN THE PRODUCT AND PROPERTY OF F&D. ANY REPRODUCTION WITHOUT THE PRIOR CONSENT OF F&D IS PROHIBITED.

KEY PLAN

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48 SCHOLLARD ROAD ELMSFORD NEW YORK 10523
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252 East Avenue
Norwalk, CT 06855
(203) 866-8614
(203) 866-8019 Fax

LICENSE EXP. DATE: 03-31-2026

S.E.D. CONTROL NUMBER:
48-05-01-06-0-001-026

PROJECT TITLE
BREWSTER CENTRAL SCHOOL DISTRICT
C.V. STARR INTERMEDIATE SCHOOL
CAFETORIUM ADDITION, INTERIOR RENOVATIONS AND SITE WORK
20 FARM TO MARKET ROAD BREWSTER, NY 10509

DRAWING TITLE
GROUND FLOOR ELECTRICAL POWER PLAN

12-09-2024	BID
09-25-2024	ADDENDUM 1
03-05-2024	SED SUBMISSION
11-29-2023	D.D. SUBMISSION
08-31-2023	S.D. SUBMISSION
DATE	ISSUED TO

SHEET SIZE: 30"x42"
DRAWING NO.: CVS EP100A
SCALE: AS NOTED
DRAWN BY: LFG
FILE NO.: 23505.02

PLOT DATE: December 02, 2024 - 2:27pm

FILE: N:\Brewster Central Schools\2023 Capital Projects\CV Starr Intermediate School\PACKAGE 2 - Cafetorium\ACAD\Electrical\CVS PKG2_EP-100_EP-100A.dwg

GENERAL NOTES:

1. THE DRAWINGS ARE DIAGRAMMATIC IN NATURE AND ARE NOT INTENDED TO SHOW EVERY FITTING (i.e. PULL BOX), ETC. THE CONTRACTOR SHALL COORDINATE WITH ALL TRADES PRIOR TO INSTALLATION OF ANY MATERIAL OR EQUIPMENT.
2. ELECTRICAL CONTRACTOR SHALL FIELD VERIFY ALL EQUIPMENT ELECTRICAL REQUIREMENTS WITH EXACT EQUIPMENT PROVIDED AND COORDINATE WITH EQUIPMENT SPECIFICATIONS PRIOR TO INSTALLATION. NOTIFY ENGINEER IF ELECTRICAL DEVICES AND FEEDER SIZES REQUIRE ADJUSTING TO SUIT ANY DISCREPANCIES.
3. COORDINATE WITH OWNER/ARCHITECT FOR EXACT DEVICE LOCATIONS AND MOUNTING REQUIREMENTS FOR ALL ELECTRICAL DEVICES AND FIXTURES.
4. ALL 125–VOLT, SINGLE PHASE, 15 AND 20–AMP RECEPTACLES INSTALLED IN BATHROOMS, KITCHENS AND ON ROOFTOPS SHALL BE GFCI PROTECTED.
5. ALL CONDUIT FOR LIGHTING, POWER AND LOW VOLTAGE WIRING SHALL BE RUN WITHIN CMU BLOCK CELLS LOCATED IN FIELD WITH OWNER PRIOR TO INSTALLATION. EXPOSED CONDUIT TO BE PAINTED, COLOR TO BE DETERMINED.
6. ELECTRICAL CONTRACTOR SHALL PROVIDE JUNCTION OR BACK BOXES FOR MOUNTING ALL INTERIOR AND EXTERIOR MOUNTED SECURITY, CAMERA AND A/V DEVICE REQUIREMENTS. REFER TO SEPARATE CONSULTANT'S DRAWINGS FOR ALL DETAILS, SPECIFICATIONS AND ADDITIONAL REQUIREMENTS.

POWER CODED NOTES

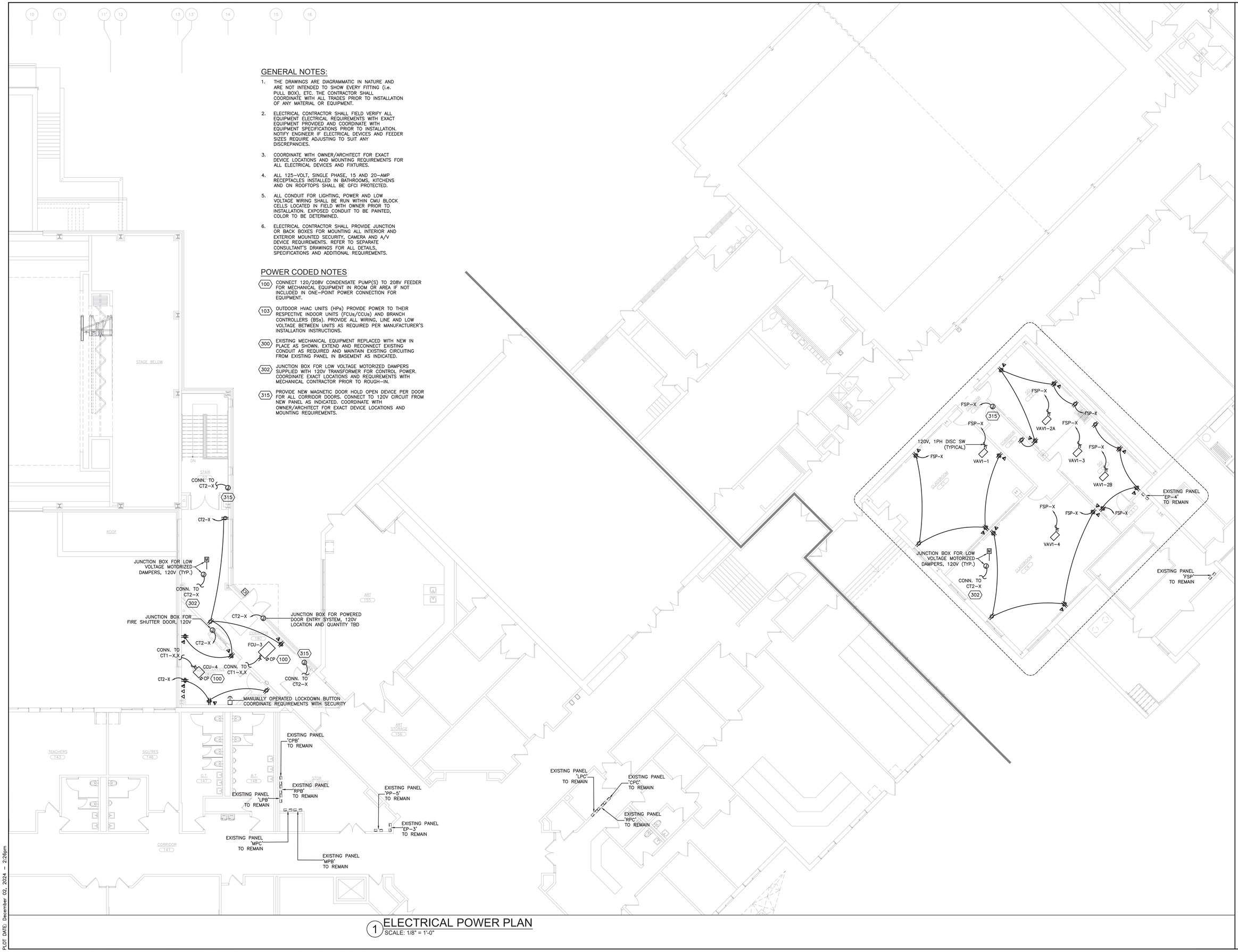
(100) CONNECT 120/208V CONDENSATE PUMP(S) TO 208V FEEDER FOR MECHANICAL EQUIPMENT IN ROOM OR AREA IF NOT INCLUDED IN ONE–POINT POWER CONNECTION FOR EQUIPMENT.

(103) OUTDOOR HVAC UNITS (HPs) PROVIDE POWER TO THEIR RESPECTIVE INDOOR UNITS (FCUs/CCUs) AND BRANCH CONTROLLERS (BSs). PROVIDE ALL WIRING, LINE AND LOW VOLTAGE BETWEEN UNITS AS REQUIRED PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.

(300) EXISTING MECHANICAL EQUIPMENT REPLACED WITH NEW IN PLACE AS SHOWN. EXTEND AND RECONNECT EXISTING CONDUIT AS REQUIRED AND MAINTAIN EXISTING CIRCUITING FROM EXISTING PANEL IN BASEMENT AS INDICATED.

(302) JUNCTION BOX FOR LOW VOLTAGE MOTORIZED DAMPERS SUPPLIED WITH 120V TRANSFORMER FOR CONTROL POWER. COORDINATE EXACT LOCATIONS AND REQUIREMENTS WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH–IN.

(315) PROVIDE NEW MAGNETIC DOOR HOLD OPEN DEVICE PER DOOR FOR ALL CORRIDOR DOORS. CONNECT TO 120V CIRCUIT FROM NEW PANEL AS INDICATED. COORDINATE WITH OWNER/ARCHITECT FOR EXACT DEVICE LOCATIONS AND MOUNTING REQUIREMENTS.



1 ELECTRICAL POWER PLAN
SCALE: 1/8" = 1'-0"

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KEY PLAN

FULLER D'ANGELO P.C. ARCHITECTS PLANNERS
48 SCHOLLWOOD ROAD ELMSFORD NEW YORK 10523
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www.FULLERDANGELO.COM
20 FARM TO MARKET ROAD BREWSTER, NY 10509

LFG LANDMARK FACILITIES GROUP, INC.
252 East Avenue
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LICENSE EXP. DATE: 03-31-2026

S.E.D. CONTROL NUMBER:
48-05-01-06-0-001-026

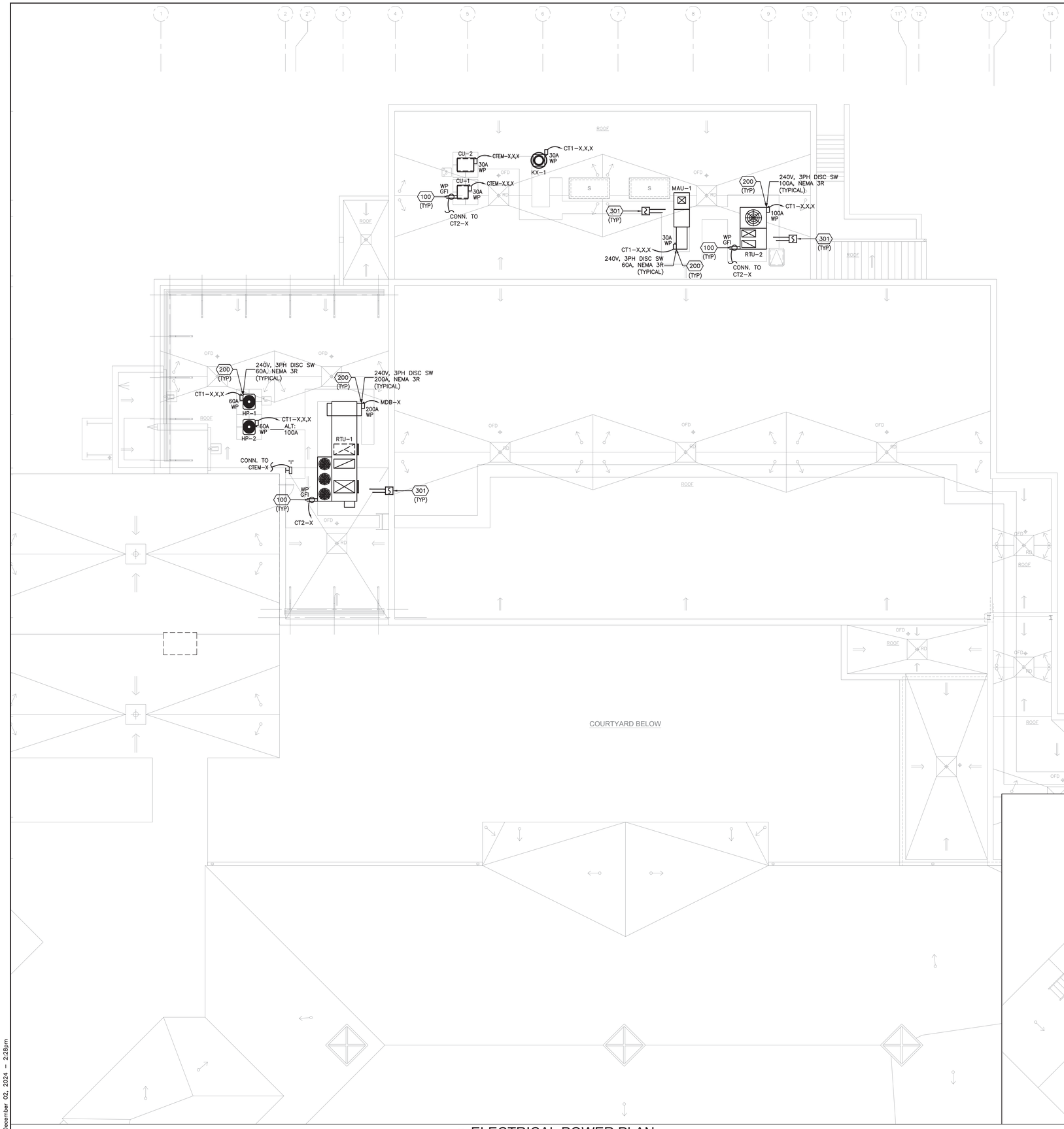
PROJECT TITLE
BREWSTER CENTRAL SCHOOL DISTRICT
C.V. STARR INTERMEDIATE SCHOOL
CAFETORIUM ADDITION, INTERIOR RENOVATIONS AND SITE IMPROVEMENTS
20 FARM TO MARKET ROAD BREWSTER, NY 10509

DRAWING TITLE
FIRST FLOOR
ELECTRICAL POWER PLAN

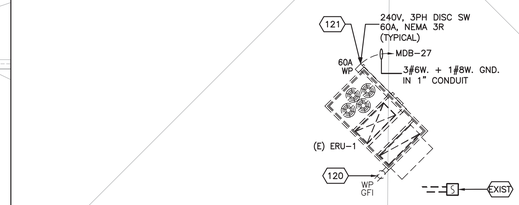
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09-25-2024	ADDENDUM 1
03-05-2024	SED SUBMISSION
11-29-2023	D.D. SUBMISSION
08-31-2023	S.D. SUBMISSION
DATE	ISSUED TO

SHEET SIZE: 30"x42"
DRAWING NO.: CVS EP101
SCALE: AS NOTED
DRAWN BY: LFG
FILE NO.: 23505.02

PLOT DATE: December 02, 2024 – 2:26pm
FILE: N:\Brewster Central Schools\2023 Capital Projects\CV Starr Intermediate School\PACKAGE 2 – Cafetorium\ACAD\Electrical\CVS PKG2_EP–101.dwg



1 ELECTRICAL POWER PLAN
SCALE: 1/8" = 1'-0"



2 ELECTRICAL PARTIAL POWER PLAN
SCALE: 1/8" = 1'-0"

GENERAL NOTES:

1. THE DRAWINGS ARE DIAGRAMMATIC IN NATURE AND ARE NOT INTENDED TO SHOW EVERY FITTING (i.e. PULL BOX), ETC. THE CONTRACTOR SHALL COORDINATE WITH ALL TRADES PRIOR TO INSTALLATION OF ANY MATERIAL OR EQUIPMENT.
2. ELECTRICAL CONTRACTOR SHALL FIELD VERIFY ALL EQUIPMENT ELECTRICAL REQUIREMENTS WITH EXACT EQUIPMENT PROVIDED AND COORDINATE WITH EQUIPMENT SPECIFICATIONS PRIOR TO INSTALLATION. NOTIFY ENGINEER IF ELECTRICAL DEVICES AND FEEDER SIZES REQUIRE ADJUSTING TO SUIT ANY DISCREPANCIES.
3. COORDINATE WITH OWNER/ARCHITECT FOR EXACT DEVICE LOCATIONS AND MOUNTING REQUIREMENTS FOR ALL ELECTRICAL DEVICES AND FIXTURES.
4. ALL 125-VOLT, SINGLE PHASE, 15 AND 20-AMP RECEPTACLES INSTALLED IN BATHROOMS, KITCHENS AND ON ROOFTOPS SHALL BE GFCI PROTECTED.
5. ALL EXPOSED CONDUIT SHALL BE LOCATED IN FIELD WITH OWNER PRIOR TO INSTALLATION. EXPOSED CONDUIT TO BE PAINTED, COLOR TO BE DETERMINED.
6. CONTRACTOR RESPONSIBLE FOR SIZING OF PULL BOXES. CONTRACTOR SHALL DETERMINE FINAL LOCATION. DO NOT PLACE PULL BOXES ON EXTERIOR VERTICAL RACEWAY RUNS. PULL BOXES SHALL BE NEMA 1 ENCLOSURE WHEN INSTALLED INDOORS AND NEMA 3R ENCLOSURE FOR OUTDOOR INSTALLATION.
7. ALL ROOF PENETRATIONS FOR ELECTRICAL POWER AND CONTROL WIRING SHALL BE ROUTED IN PIPE PORTAL. REFER TO ARCHITECTURAL DRAWINGS FOR DETAILS.

POWER CODED NOTES

100 WEATHERPROOF GFCI RECEPTACLE PROVIDED FOR SERVICING MECHANICAL EQUIPMENT WIRE TO CIRCUIT AS INDICATED. COORDINATE LOCATION WITH G.C. PRIOR TO ROUGH-IN.

103 OUTDOOR HVAC UNITS (HPs) PROVIDE POWER TO THEIR RESPECTIVE INDOOR UNITS (FCUs/CCUs) AND BRANCH CONTROLLERS (BCCs). PROVIDE ALL WIRING, LINE AND LOW VOLTAGE BETWEEN UNITS AS REQUIRED PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.

120 FIELD VERIFY EXISTING WP GFCI CONVENIENCE RECEPTACLE PROVIDED FOR SERVICING ROOFTOP HVAC EQUIPMENT. REMOVE AND REPLACE WITH NEW IF DEFECTIVE AND/OR PROVIDE NEW IN PLACE IF UNIT IS NOT PROVIDED WITH ACCESSORY.

121 FIELD VERIFY EXISTING WP DISCONNECT SWITCH PROVIDED FOR HVAC EQUIPMENT IS SALVAGEABLE. REMOVE AND REPLACE WITH NEW IF DEFECTIVE AND RECONNECT TO EXISTING CIRCUIT FROM EXISTING PANEL AS INDICATED.

200 MOTOR STARTERS/DISCONNECT SWITCHES PROVIDED BY MECHANICAL CONTRACTOR, INSTALLED AND WIRED BY ELECTRICAL CONTRACTOR.

300 EXISTING MECHANICAL EQUIPMENT REPLACED WITH NEW IN PLACE AS SHOWN. EXTEND AND RECONNECT EXISTING CONDUIT AS REQUIRED AND MAINTAIN EXISTING CIRCUITING FROM EXISTING PANEL IN BASEMENT AS INDICATED.

301 PROVIDE NEW DUCT DETECTOR AND REMOTE TEST SWITCH AND CONNECT TO EXISTING FIRE ALARM SYSTEM. PROVIDE CONTROL MODULE AND FAN SHUTDOWN RELAY FOR DEACTIVATION OF MECHANICAL EQUIPMENT UPON ALARM.

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KEY PLAN

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WWW.FULLERDANGELO.COM
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LFG LANDSCAPE FACILITIES GROUP, INC.
252 East Avenue
Norwalk, CT 06855
(203) 866-4644
(203) 866-8019 Fax

LICENSE EXP. DATE: 03-31-2026

S.E.D. CONTROL NUMBER:
48-06-01-06-0-001-026

PROJECT TITLE
BREWSTER CENTRAL SCHOOL DISTRICT
C.V. STARR INTERMEDIATE SCHOOL
CAFETORIUM ADDITION, INTERIOR RENOVATIONS AND SITE WORK
20 FARM TO MARKET ROAD BREWSTER, NY 10509

DRAWING TITLE
ROOF
ELECTRICAL POWER PLAN

DATE	ISSUED TO
12-09-2024	BID
09-25-2024	ADDENDUM 1
03-05-2024	SED SUBMISSION
11-29-2023	D.D. SUBMISSION
08-31-2023	S.D. SUBMISSION

SHEET SIZE: 30"x42"
DRAWING NO.: CVS E103
SCALE: AS NOTED
DRAWN BY: LFG
FILE NO.: 23505.02

PLOT DATE: December 02, 2024 - 2:28pm
FILE: N:\Brewster Central Schools\2023 Capital Projects\CV Starr Intermediate School\PACKAGE 2 - Cafetorium\ACAD\Electrical\CVS PKG2_E-103.dwg

GENERAL NOTES:

1. THE DRAWINGS ARE DIAGRAMMATIC IN NATURE AND ARE NOT INTENDED TO SHOW EVERY FITTING (i.e. PULL BOX), ETC. THE CONTRACTOR SHALL COORDINATE WITH ALL TRADES PRIOR TO INSTALLATION OF ANY MATERIAL OR EQUIPMENT.
2. COORDINATE WITH OWNER/ARCHITECT FOR EXACT LIGHTING SWITCH LOCATIONS AND CONTROLS, LIGHTING SPECIFICATIONS AND MOUNTING REQUIREMENTS FOR ALL LIGHT FIXTURES AND DEVICES UNLESS OTHERWISE NOTED.
3. ALL EXIT SIGNS AND EMERGENCY LIGHTING "X/EM" SHALL BE UNSWITCHED AND SHALL AUTOMATICALLY REMAIN ENERGIZED FROM EMERGENCY GENERATOR BACKUP PANEL "CTEM" ON LOSS OF POWER. ALL EXIT SIGNS AND EMERGENCY LIGHTING SHALL BE VERIFIED IN FIELD WITH OWNER PRIOR TO INSTALLATION.
4. INSTALL AUTOMATIC ON/OFF WALL OR CEILING MOUNTED OCCUPANCY SENSOR IN ROOM OR AREA AS SHOWN. SWITCH TO BE WIRED AHEAD OF ANY LOCAL SWITCHING OR DIMMING CONTROL POWER CIRCUITING, PROVIDING REQUIRED OVERRIDE OF LIGHTS DURING UNOCCUPIED PERIODS.
5. EXHAUST HOOD(S) AND WALK-IN COOLER/FREEZER LIGHTING FURNISHED BY EQUIPMENT VENDOR AS INTEGRAL PART OF EQUIPMENT.
6. ALL CONDUIT FOR LIGHTING, POWER AND LOW VOLTAGE WIRING SHALL BE RUN WITHIN CMU BLOCK CELLS LOCATED IN FIELD WITH OWNER PRIOR TO INSTALLATION. EXPOSED CONDUIT TO BE PAINTED, COLOR TO BE DETERMINED.

LIGHTING CODED NOTES

(100) JUNCTION BOX FOR LOW VOLTAGE LIGHTING POWER SUPPLY. COORDINATE WITH OWNER/ARCHITECT/MANUFACTURER FOR EXACT LOCATION AND MOUNTING REQUIREMENTS.

(101) NEW LIGHTING CONTROL PANEL. REFER TO ARCHITECTURAL DRAWINGS FOR DETAILS AND SPECIFICATIONS.

DEMOLITION CODED NOTES

(1) ELECTRICAL CONTRACTOR SHALL REMOVE EXISTING CANOPY LIGHT FIXTURES AND ASSOCIATED LIGHTING CONTROL DEVICES. REMOVE ALL CONDUIT AND CONDUCTORS BACK TO THEIR RESPECTIVE ELECTRICAL PANELS.

1 ELECTRICAL LIGHTING PLAN

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

AS PER USA CONGRESS ARCHITECTURAL WORKS COPYRIGHT PROTECTION ACT OF 1990 ALL IDEAS AND DESIGNS INCLUDING DERIVATIVES THEREOF, ALL DRAWINGS AND SPECIFICATIONS CONSTITUTE THE ORIGINAL COPYRIGHT WORK BY FULLER AND D'ANGELO, P.C. (F&D). THE DRAWINGS AND SPECIFICATIONS AS INSTRUMENTS OF SERVICE BY F&D ARE CREATED BY F&D FOR THIS PROJECT ONLY AND REMAIN THE PRODUCT AND PROPERTY OF F&D. ANY REPRODUCTION WITHOUT THE PRIOR CONSENT OF F&D IS PROHIBITED.

KEY PLAN

FULLER D'ANGELO P.C. ARCHITECTS PLANNERS
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LFG LANDMARK FACILITIES GROUP, INC.
252 East Avenue
Norwalk, CT 06855
(203) 866-6644
(203) 866-6919 Fax

LICENSE EXP. DATE: 03-31-2026

S.E.D. CONTROL NUMBER:
48-06-01-06-0-001-026

PROJECT TITLE
BREWSTER CENTRAL SCHOOL DISTRICT
C.V. STARR INTERMEDIATE SCHOOL
CAFETORIUM ADDITION, INTERIOR RENOVATIONS AND EQUIPMENT
257 FARM TO MARKET ROAD BREWSTER, NY 10509

DRAWING TITLE
GROUND FLOOR
ELECTRICAL LIGHTING PLAN

DATE	ISSUED TO
12-09-2024	BID
09-25-2024	ADDENDUM 1
03-05-2024	SED SUBMISSION
11-29-2023	D.D. SUBMISSION
08-31-2023	S.D. SUBMISSION

SHEET SIZE: 30"x42"
DRAWING NO.: CVS EL100
SCALE: AS NOTED
DRAWN BY: LFG
FILE NO.: 23505.02

PLOT DATE: December 02, 2024 - 2:27pm

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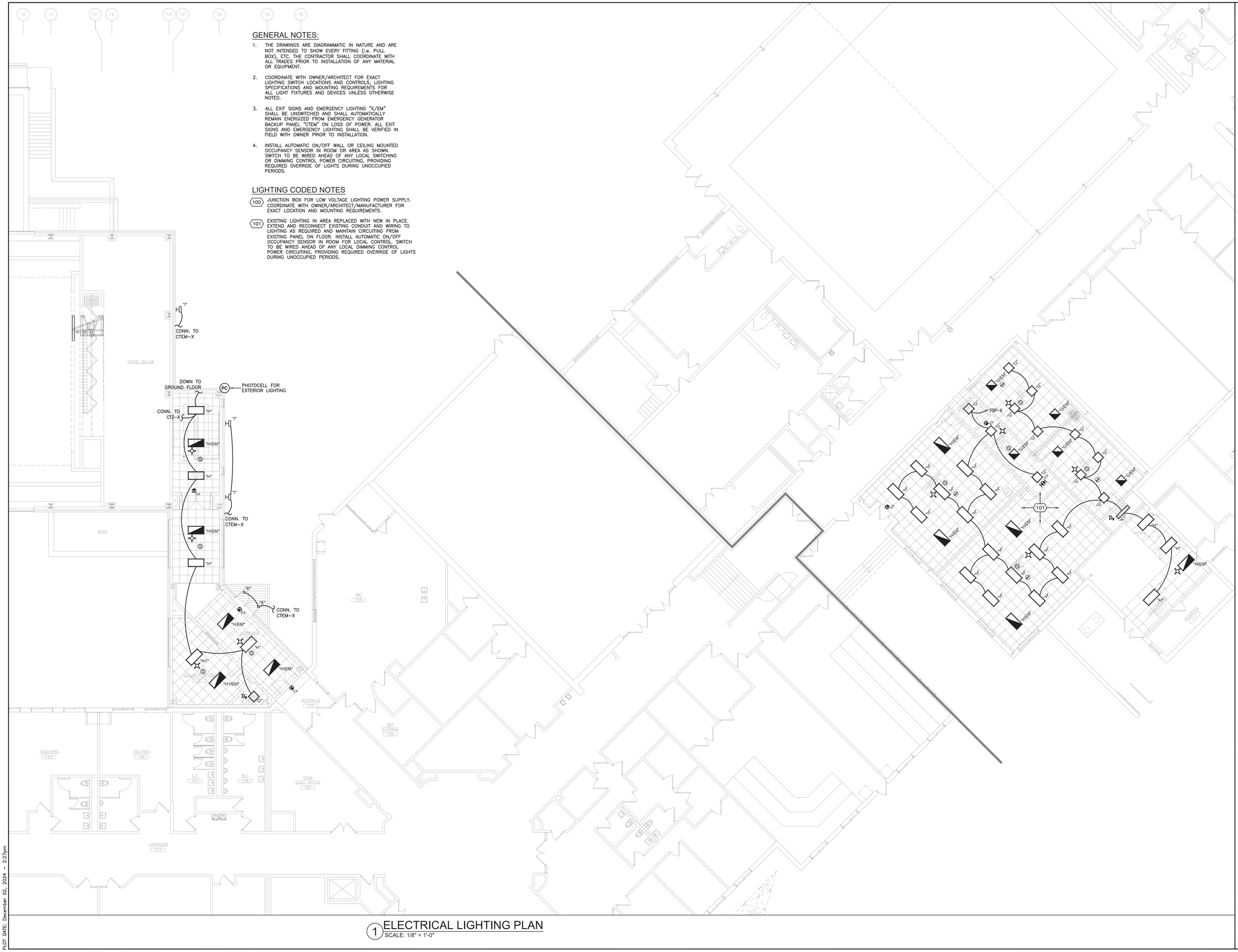
GENERAL NOTES:

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2. COORDINATE WITH OWNER/ARCHITECT FOR EXACT LIGHTING SWITCH LOCATIONS AND CONTROLS, LIGHTING SPECIFICATIONS AND MOUNTING REQUIREMENTS FOR ALL LIGHT FIXTURES AND DEVICES UNLESS OTHERWISE NOTED.
3. ALL EXIT SIGNS AND EMERGENCY LIGHTING "X/EM" SHALL BE UNSWITCHED AND SHALL AUTOMATICALLY REMAIN ENERGIZED FROM EMERGENCY GENERATOR BACKUP PANEL "CTEM" ON LOSS OF POWER. ALL EXIT SIGNS AND EMERGENCY LIGHTING SHALL BE VERIFIED IN FIELD WITH OWNER PRIOR TO INSTALLATION.
4. INSTALL AUTOMATIC ON/OFF WALL OR CEILING MOUNTED OCCUPANCY SENSOR IN ROOM OR AREA AS SHOWN. SWITCH TO BE WIRED AHEAD OF ANY LOCAL SWITCHING OR DIMMING CONTROL POWER CIRCUITING, PROVIDING REQUIRED OVERRIDE OF LIGHTS DURING UNOCCUPIED PERIODS.

LIGHTING CODED NOTES

(100) JUNCTION BOX FOR LOW VOLTAGE LIGHTING POWER SUPPLY. COORDINATE WITH OWNER/ARCHITECT/MANUFACTURER FOR EXACT LOCATION AND MOUNTING REQUIREMENTS.

(101) EXISTING LIGHTING IN AREA REPLACED WITH NEW IN PLACE. EXTEND AND RECONNECT EXISTING CONDUIT AND WIRING TO LIGHTING AS REQUIRED AND MAINTAIN CIRCUITING FROM EXISTING PANEL ON FLOOR. INSTALL AUTOMATIC ON/OFF OCCUPANCY SENSOR IN ROOM FOR LOCAL CONTROL. SWITCH TO BE WIRED AHEAD OF ANY LOCAL DIMMING CONTROL POWER CIRCUITING, PROVIDING REQUIRED OVERRIDE OF LIGHTS DURING UNOCCUPIED PERIODS.



1 ELECTRICAL LIGHTING PLAN
SCALE: 1/8" = 1'-0"

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KEY PLAN N
SCALE: N.T.S.

FULLER D'ANGELO P.C.
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LANDMARK FACILITIES GROUP, INC.
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Norwalk, CT 06855
(203) 866-6644
(203) 866-8019 Fax

LICENSE EXP. DATE: 03-31-2026

S.E.D. CONTROL NUMBER:
48-05-01-06-0-001-026

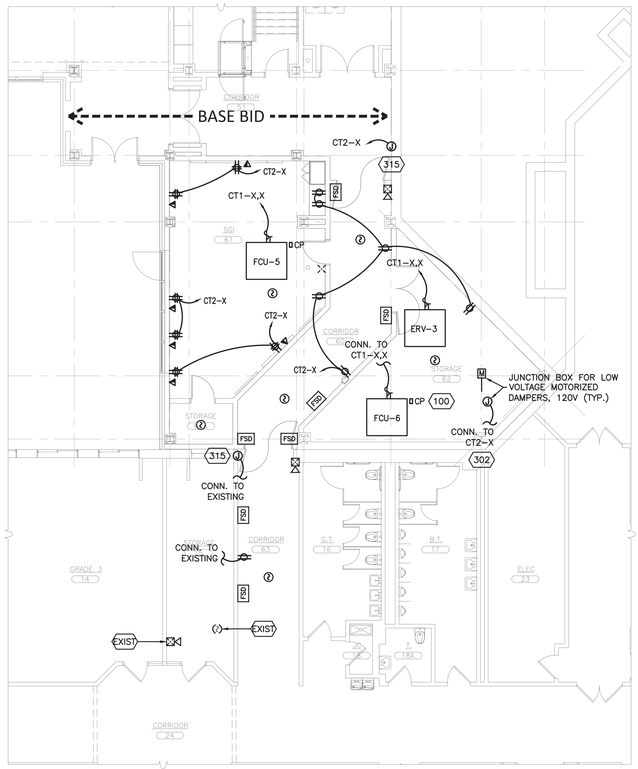
PROJECT TITLE:
BREWSTER CENTRAL SCHOOL DISTRICT
C.V. STARR INTERMEDIATE SCHOOL
CAFETORIUM ADDITION, INTERIOR RENOVATIONS AND SITE WORK
20 FARM TO MARKET ROAD BREWSTER, NY 10509

DRAWING TITLE:
FIRST FLOOR
ELECTRICAL LIGHTING PLAN

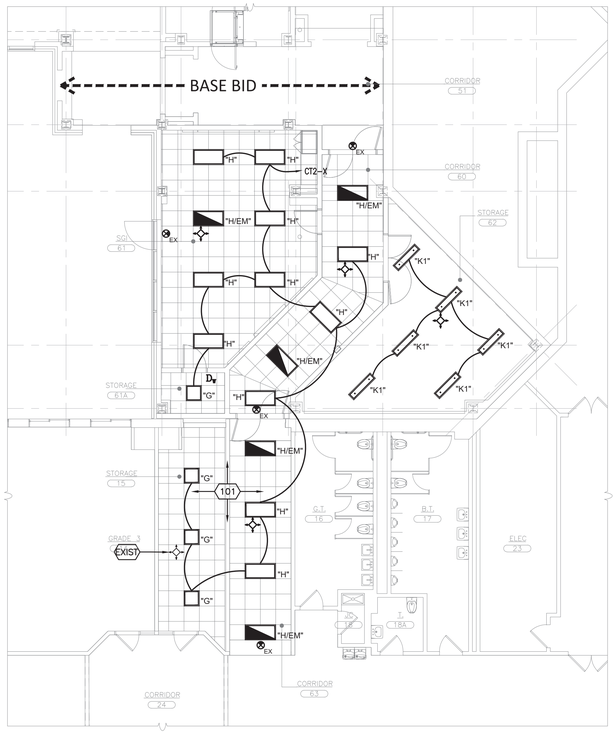
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03-05-2024	SED SUBMISSION
11-29-2023	D.D. SUBMISSION
08-31-2023	S.D. SUBMISSION
DATE	ISSUED TO

SHEET SIZE: 30"x42"
DRAWING NO.: CVS EL101
SCALE: AS NOTED
DRAWN BY: LFG
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FILE: N:\Brewster Central Schools\2023 Capital Projects\CV Starr Intermediate School\PACKAGE 2 – Cafetorium\ACAD\Electrical\CVS PKG2_EL–101.dwg



5 PARTIAL GROUND FLOOR PLAN - ALT 1
SCALE: 1/8" = 1'-0"



6 PARTIAL GROUND FLOOR RCP - ALT 1
SCALE: 1/8" = 1'-0"

GENERAL NOTES:

1. THE DRAWINGS ARE DIAGRAMMATIC IN NATURE AND ARE NOT INTENDED TO SHOW EVERY FITTING (i.e. PULL BOX), ETC. THE CONTRACTOR SHALL COORDINATE WITH ALL TRADES PRIOR TO INSTALLATION OF ANY MATERIAL OR EQUIPMENT.
2. ELECTRICAL CONTRACTOR SHALL MAKE FINAL CONNECTIONS TO ALL EQUIPMENT. CONTRACTOR SHALL PROVIDE CORD/PLUG WHERE EQUIPMENT NOT PROVIDED BY VENDOR.
3. ELECTRICAL CONTRACTOR SHALL FIELD VERIFY ALL EQUIPMENT ELECTRICAL REQUIREMENTS WITH EXACT EQUIPMENT PROVIDED AND COORDINATE WITH EQUIPMENT SPECIFICATIONS PRIOR TO INSTALLATION. NOTIFY ENGINEER IF ELECTRICAL DEVICES AND FEEDER SIZES REQUIRE ADJUSTING TO SUIT ANY DISCREPANCIES.
4. COORDINATE WITH OWNER/ARCHITECT FOR EXACT DEVICE LOCATIONS AND MOUNTING REQUIREMENTS FOR ALL ELECTRICAL DEVICES AND FIXTURES.
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POWER CODED NOTES

(100) CONNECT 120/208V CONDENSATE PUMP(S) TO 208V FEEDER FOR MECHANICAL EQUIPMENT IN ROOM OR AREA IF NOT INCLUDED IN ONE–POINT POWER CONNECTION FOR EQUIPMENT.

(103) OUTDOOR HVAC UNITS (HPs) PROVIDE POWER TO THEIR RESPECTIVE INDOOR UNITS (FCUs/CCUs) AND BRANCH CONTROLLERS (BSs). PROVIDE ALL WIRING, LINE AND LOW VOLTAGE BETWEEN UNITS AS REQUIRED PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.

(302) JUNCTION BOX FOR LOW VOLTAGE MOTORIZED DAMPERS SUPPLIED WITH 120V TRANSFORMER FOR CONTROL POWER. COORDINATE EXACT LOCATIONS AND REQUIREMENTS WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH–IN.

(315) PROVIDE NEW MAGNETIC DOOR HOLD OPEN DEVICE PER DOOR FOR ALL CORRIDOR DOORS. CONNECT TO 120V CIRCUIT FROM NEW PANEL AS INDICATED. COORDINATE WITH OWNER/ARCHITECT FOR EXACT DEVICE LOCATIONS AND MOUNTING REQUIREMENTS.

(400) MOTOR STARTERS/DISCONNECT SWITCHES PROVIDED BY MECHANICAL CONTRACTOR, INSTALLED AND WIRED BY ELECTRICAL CONTRACTOR.

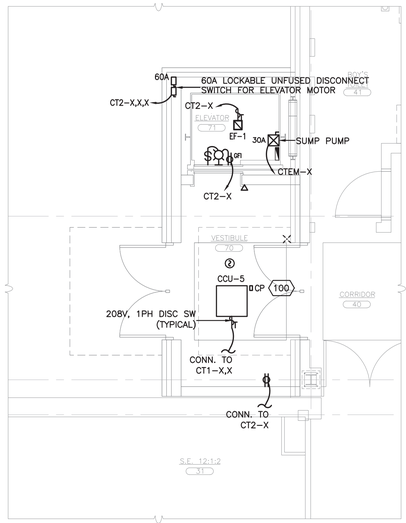
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2. COORDINATE WITH OWNER/ARCHITECT FOR EXACT LIGHTING SWITCH LOCATIONS AND CONTROLS, LIGHTING SPECIFICATIONS AND MOUNTING REQUIREMENTS FOR ALL LIGHT FIXTURES AND DEVICES UNLESS OTHERWISE NOTED.
3. ALL EXIT SIGNS AND EMERGENCY LIGHTING "X/EM" SHALL BE UNSWITCHED AND SHALL AUTOMATICALLY REMAIN ENERGIZED FROM EMERGENCY GENERATOR BACKUP PANEL "CTEM" ON LOSS OF POWER. ALL EXIT SIGNS AND EMERGENCY LIGHTING SHALL BE VERIFIED IN FIELD WITH OWNER PRIOR TO INSTALLATION.
4. INSTALL AUTOMATIC ON/OFF WALL OR CEILING MOUNTED OCCUPANCY SENSOR IN ROOM OR AREA AS SHOWN. SWITCH TO BE WIRED AHEAD OF ANY LOCAL SWITCHING OR DIMMING CONTROL POWER CIRCUITING, PROVIDING REQUIRED OVERRIDE OF LIGHTS DURING UNOCCUPIED PERIODS.

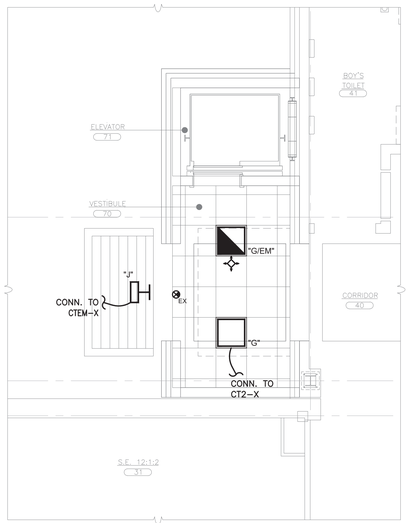
LIGHTING CODED NOTES

(100) JUNCTION BOX FOR LOW VOLTAGE LIGHTING POWER SUPPLY. COORDINATE WITH OWNER/ARCHITECT/MANUFACTURER FOR EXACT LOCATION AND MOUNTING REQUIREMENTS.

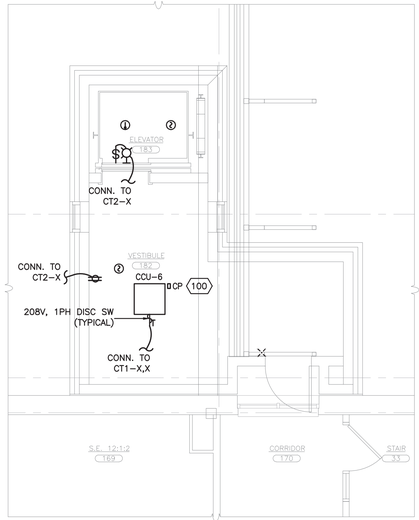
(101) EXISTING LIGHTING IN AREA REPLACED WITH NEW IN PLACE. EXTEND AND RECONNECT EXISTING CONDUIT AND WIRING TO LIGHTING AS REQUIRED AND MAINTAIN CIRCUITING FROM EXISTING PANEL ON FLOOR. INSTALL AUTOMATIC ON/OFF OCCUPANCY SENSOR IN ROOM FOR LOCAL CONTROL. SWITCH TO BE WIRED AHEAD OF ANY LOCAL DIMMING CONTROL POWER CIRCUITING, PROVIDING REQUIRED OVERRIDE OF LIGHTS DURING UNOCCUPIED PERIODS.



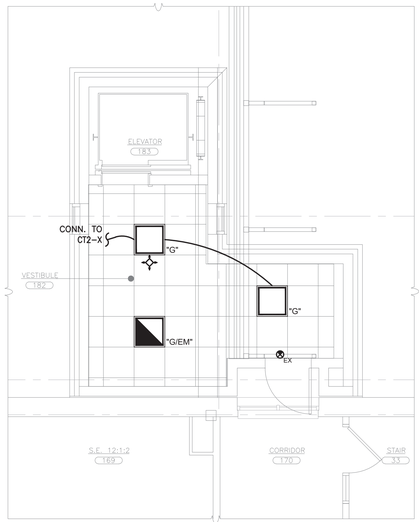
1 GROUND FLOOR PLAN - ALT 2
SCALE: 1/4" = 1'-0"



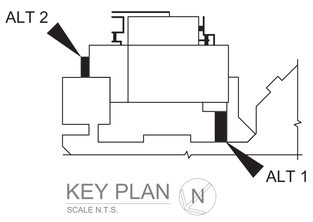
2 GROUND FLOOR RCP - ALT 2
SCALE: 1/4" = 1'-0"



3 FIRST FLOOR PLAN - ALT 2
SCALE: 1/4" = 1'-0"



4 FIRST FLOOR RCP - ALT 2
SCALE: 1/4" = 1'-0"



KEY PLAN
SCALE N.T.S.

AS PER USA CONGRESS ARCHITECTURAL WORKS COPYRIGHT PROTECTION ACT OF 1990 ALL IDEAS AND DESIGNS INCLUDING DERIVATIVES THEREOF, ALL DRAWINGS AND SPECIFICATIONS CONSTITUTE THE ORIGINAL COPYRIGHT WORK BY FULLER AND D'ANGELO, P.C. (F&D). THE DRAWINGS AND SPECIFICATIONS AS INSTRUMENTS OF SERVICE BY F&D ARE CREATED BY F&D FOR THIS PROJECT ONLY AND REMAIN THE PRODUCT AND PROPERTY OF F&D. ANY REPRODUCTION WITHOUT THE PRIOR CONSENT OF F&D IS PROHIBITED.

KEY PLAN

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LICENSE EXP. DATE: 03-31-2026

S.E.D. CONTROL NUMBER:
48-06-01-06-0-001-026

PROJECT TITLE:
BREWSTER CENTRAL SCHOOL DISTRICT
C.V. STARR INTERMEDIATE SCHOOL
CAFETORIUM ADDITION, INTERIOR
RENOVATIONS AND SITE WORK
20 FARM TO MARKET ROAD BREWSTER, NY 10509

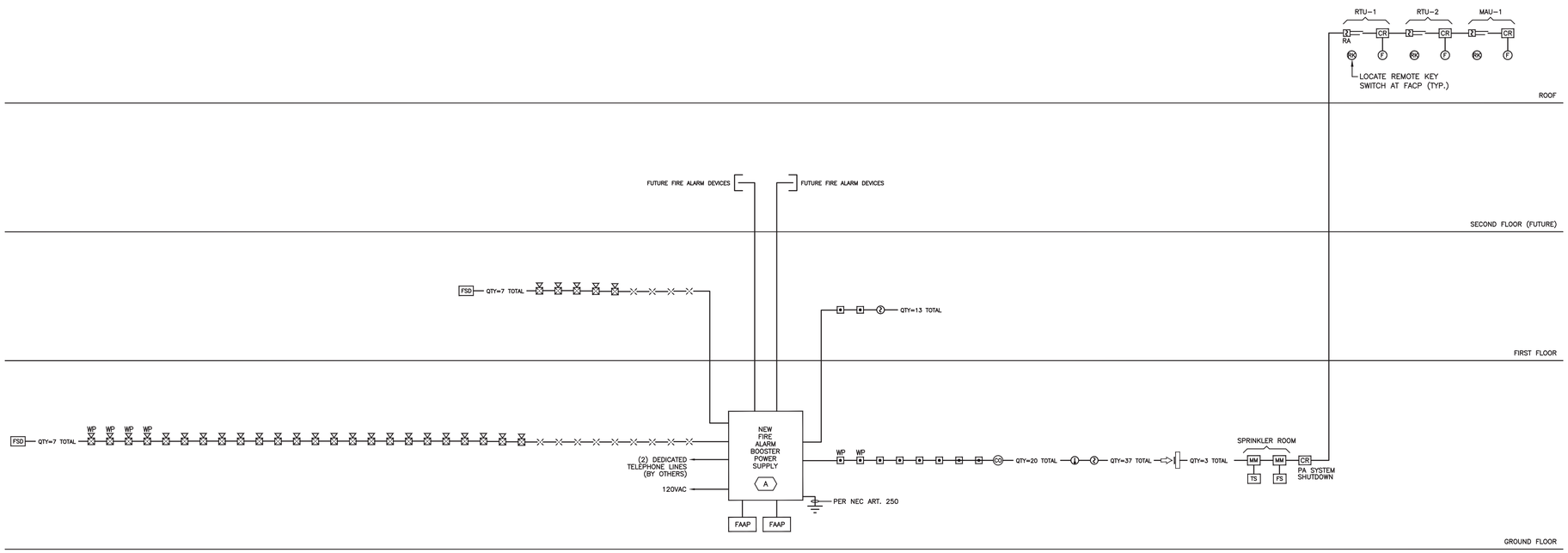
DRAWING TITLE:
ELECTRICAL ALTERNATE
FLOOR PLANS

DATE	ISSUED TO
12-09-2024	BID
09-25-2024	ADDENDUM 1
03-05-2024	SED SUBMISSION
11-29-2023	D.D. SUBMISSION
08-31-2023	S.D. SUBMISSION

SHEET SIZE: 30"x42"
DRAWING NO.: CVS E-ALT
SCALE: AS NOTED
DRAWN BY: LFG
FILE NO.: 23505.02

PLOT DATE: December 02, 2024 – 2:28pm

FILE: N:\Brewster Central Schools\2023 Capital Projects\CV Starr Intermediate School\PACKAGE 2 – Cafetorium\ACAD\Electrical\CVS PKG2_E–ALT.dwg



FIRE ALARM RISER DIAGRAM

RISER DIAGRAM CODED NOTES

(A) NEW FIRE ALARM CONTROL PANEL MAY NOT BE REQUIRED IF EXISTING SCHOOL FIRE ALARM CONTROL PANEL HAS THE CAPACITY FOR EXPANSION. IF CAPABLE THE NEW FIRE ALARM DEVICES SHOWN CAN BE CONNECTED TO THE EXISTING FIRE ALARM CONTROL PANEL. CONTRACTOR SHALL FURNISH AND INSTALL COMMUNICATIONS WIRING BETWEEN EXISTING FIRE ALARM CONTROL PANEL, NEW BOOSTER POWER SUPPLIES, EXTENDER PANEL AND ANNUNCIATOR PANELS AS REQUIRED.

GENERAL NOTES:

1. THE DRAWINGS ARE DIAGRAMMATIC IN NATURE AND ARE NOT INTENDED TO SHOW EVERY FITTING (i.e. PULL BOX), ETC. THE CONTRACTOR SHALL COORDINATE WITH ALL TRADES PRIOR TO INSTALLATION OF ANY MATERIAL OR EQUIPMENT.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND INSTALLING ALL NEW FIRE ALARM DEVICES AND ASSOCIATED EQUIPMENT, CABLING AND CONDUIT TO THE NEW BASE BUILDING FIRE ALARM SYSTEM FOR A COMPLETE AND OPERABLE SYSTEM.
3. ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE INTERNATIONAL FIRE CODE, THE NATIONAL FIRE ALARM CODE, THE NATIONAL ELECTRICAL CODE, THE REQUIREMENTS SET FORTH BY THE NEW AMERICANS WITH DISABILITIES ACT (A.D.A.)., AS APPROVED BY THE AUTHORITY HAVING JURISDICTION.
4. ALL NEW DEVICES SHALL BE COMPATIBLE WITH NEW FIRE ALARM PANEL AND WHITE IN COLOR.
5. ANY REQUIRED POWER FEED TO BE MIN. 2#12+G THHN OR THWN.
6. ALL JUNCTION AND PULL BOX COVERS TO BE PAINTED FIRE DEPT. RED.
7. ALL WIRING TO BE CHECKED AND DETERMINED TO BE FREE OF GROUND SHORTS AND HAVE PROPER POLARITY AND END OF LINE RESISTANCE.
8. PROVIDE ALL REQUIRED MODULES, WIRING AND PROGRAMMING TO ACCEPT NEW INDICATED DEVICES – ARRANGE FOR FILING AND ATTACH THE APPLICATION NUMBER OF THE CURRENT BASE BUILDING FIRE ALARM PLANS TO THE SUBMITTAL WITH THE NEW DEVICES ADDED WHERE APPLICABLE ON THE PLANS AND RISER.
9. ALL DEVICES ARE TO BE PROPERLY SUPPORTED WITH APPROPRIATE BRACKETS.
10. ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE LOCAL BUILDING CODE AND THE NATIONAL ELECTRICAL CODE AND REQUIREMENTS SET FORTH BY THE NEW AMERICANS WITH DISABILITIES ACT (A.D.A.).
11. CONTRACTOR SHALL COORDINATE WITH BUILDING FIRE ALARM SERVICE VENDER BEFORE START OF ANY WORK.
12. ALL FIRE ALARM EXPOSED CABLE SHALL BE IN CONDUIT. EXCEPT WHERE INSTALLED IN MERs OVER 8' AFF.
13. ALL FIRE ALARM CABLE SHALL BE APPROVED FOR USE BY AUTHORITY HAVING JURISDICTION.
14. LOCATION OF ALL FIRE ALARM DEVICES AND EXPOSED CONDUITS ARE TO BE LOCATED IN FIELD WITH OWNER.
15. ALL CONDUIT FOR LIGHTING, POWER AND LOW VOLTAGE WIRING SHALL BE RUN WITHIN CMU BLOCK CELLS LOCATED IN FIELD WITH OWNER PRIOR TO INSTALLATION. EXPOSED CONDUIT TO BE PAINTED, COLOR TO BE DETERMINED.

EMERGENCY COMMUNICATION SYSTEMS NOTE:

SYSTEMS SUCH AS SECURITY; LOCKDOWN; PUBLIC ANNOUNCEMENT; EMERGENCY COMMUNICATION SYSTEMS; MASS NOTIFICATION SYSTEM; BUILDING AUTOMATION SYSTEMS; ETC., WHICH CONNECT TO, OR ARE REQUIRED BY NFPA 72 TO CONNECT TO, THE FIRE ALARM SYSTEM, SHALL COMPLY WITH THE REQUIREMENTS OF NFPA 72 NATIONAL FIRE ALARM CODE TO PROTECT THE INTEGRITY AND RELIABILITY OF THE FIRE ALARM SYSTEM, AND TO ISSUE A COORDINATED MESSAGE. OTHER NOTIFICATION SYSTEMS SHALL COORDINATE WITH THE FIRE ALARM NOTIFICATION SYSTEM TO AVOID CONFUSION OF DIRECTIONS AND INTENDED ACTIONS AND RESPONSE.

FIRE ALARM LEGEND

■	MANUAL PULL STATION WITH COVER
Ⓢ	SMOKE DETECTOR
⊕ 135°	HEAT DETECTOR W/TEMP. RATING
⊠	STROBE (MOUNTED AT 80"AFF)
⊠	SPEAKER STROBE MTD @ 80–96" A.F.F.
⊠	CEILING MOUNTED STROBE
CO	CARBON MONOXIDE DETECTOR
FACP	FIRE ALARM CONTROL PANEL
FAAP	FIRE ALARM ANNUNCIATOR PANEL
BPS	FIRE ALARM BOOSTER POWER SUPPLY
ANSUL	ANSUL SYSTEM
Ⓢ	DUCT MOUNTED SMOKE DETECTOR
MM	MONITORING MODULE
CR	CONTROL RELAY
KB	KNOX BOX
FSD	FIRE/SMOKE DAMPER W/DUCT DETECTOR
(F)	FAN SHUTDOWN
RX	REMOTE KEY SWITCH FOR UNIT RESTART
TS	TAMPER SWITCH
FS	FLOW SWITCH
PS	PRESSURE SWITCH
DH	MAGNETIC DOOR HOLDER
EOL	END OF LINE DEVICE
AOR	AREA OF REFUGE CALLBOX
	BEAM SMOKE DETECTOR
	PLUG–IN HANDSET RECEPTACLE
SA	SUPPLY AIR
RA	RETURN AIR
E	EXISTING
WP	WEATHERPROOF

		CONTROL UNIT ANNUNCIATOR									NOTIFICATION			REQUIRED FIRE SAFETY CONTROL		CENTRAL OFFICE NOTIFICATION				
		ACTIVATE COMMON ALARM SIGNAL INDICATOR (LED)	ACTIVATE AUDIBLE ALARM SIGNAL (BUZZER ON FCS)	ACTIVATE COMMON SUPERVISORY SIGNAL INDICTOR (LED)	ACTIVATE AUDIBLE SUPERVISORY SIGNAL (BUZZER ON FCS)	ACTIVATE COMMON TROUBLE SIGNAL INDICATOR (LED)	ACTIVATE COMMON TROUBLE SIGNAL (BUZZER ON FCS)	ANNUNCIATE ALARM DEVICE BY FLOOR (LCD DISPLAY)	ANNUNCIATE SUPERVISORY DEVICE BY FLOOR (LCD DISPLAY)	ANNUNCIATE TROUBLE DEVICE BY FLOOR (LCD DISPLAY)	ACTIVATE ALL FLOOR HORNS	ACTIVATE ALL FLOOR STROBES		SHUTDOWN AC UNIT		TRANSMIT SMOKE/HEAT/DUCT DETECTOR ALARM SIGNAL	TRANSMIT MANUAL ALARM SIGNAL	TRANSMIT TROUBLE SIGNAL	TRANSMIT SUPERVISORY SIGNAL	TRANSMIT WATER FLOW ALARM SIGNAL
SYSTEM INPUTS		A	B	C	D	E	F	G	H	I	J	K	L	M		O	P	Q	R	S
SMOKE DETECTOR	1	X	X					X			X	X				X				
DUCT DETECTOR	2			X	X				X					X					X	
MANUAL PULL STATION	3	X	X					X			X	X					X			
FLOW SWITCH	4	X	X					X			X	X								X
TAMPER SWITCH	5			X	X				X										X	
FIRE ALARM AC POWER FAILURE	6			X	X				X									X		
FIRE ALARM SYSTEM LOW BATTERY	7					X	X			X								X		
OPEN CIRCUIT	8					X	X			X								X		
GROUND FAULT	9					X	X			X								X		
NOTIFICATION APPLIANCE CIRCUIT SHORT	10					X	X			X								X		

FIRE ALARM SYSTEM INPUT/OUTPUT MATRIX

AS PER USA CONGRESS ARCHITECTURAL WORKS COPYRIGHT PROTECTION ACT OF 1990 ALL IDEAS AND DESIGNS INCLUDING DERIVATIVES THEREOF, ALL DRAWINGS AND SPECIFICATIONS CONSTITUTE THE ORIGINAL COPYRIGHT WORK BY FULLER AND D'ANGELO, P.C. (F&D). THE DRAWINGS AND SPECIFICATIONS AS INSTRUMENTS OF SERVICE BY F&D ARE CREATED BY F&D FOR THIS PROJECT ONLY AND REMAIN THE PRODUCT AND PROPERTY OF F&D. ANY REPRODUCTION WITHOUT THE PRIOR CONSENT OF F&D IS PROHIBITED.

KEY PLAN

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(203) 866-8079 Fax

LICENSE EXP. DATE: 03-31-2026

S.E.D. CONTROL NUMBER:
48-06-01-06-0-001-026

PROJECT TITLE
BREWSTER CENTRAL SCHOOL DISTRICT
C.V. STARR INTERMEDIATE SCHOOL
CAFETORIUM ADDITION, INTERIOR RENOVATIONS & SITE IMPROVEMENTS
20 FARM TO MARKET ROAD BREWSTER, NY 10509

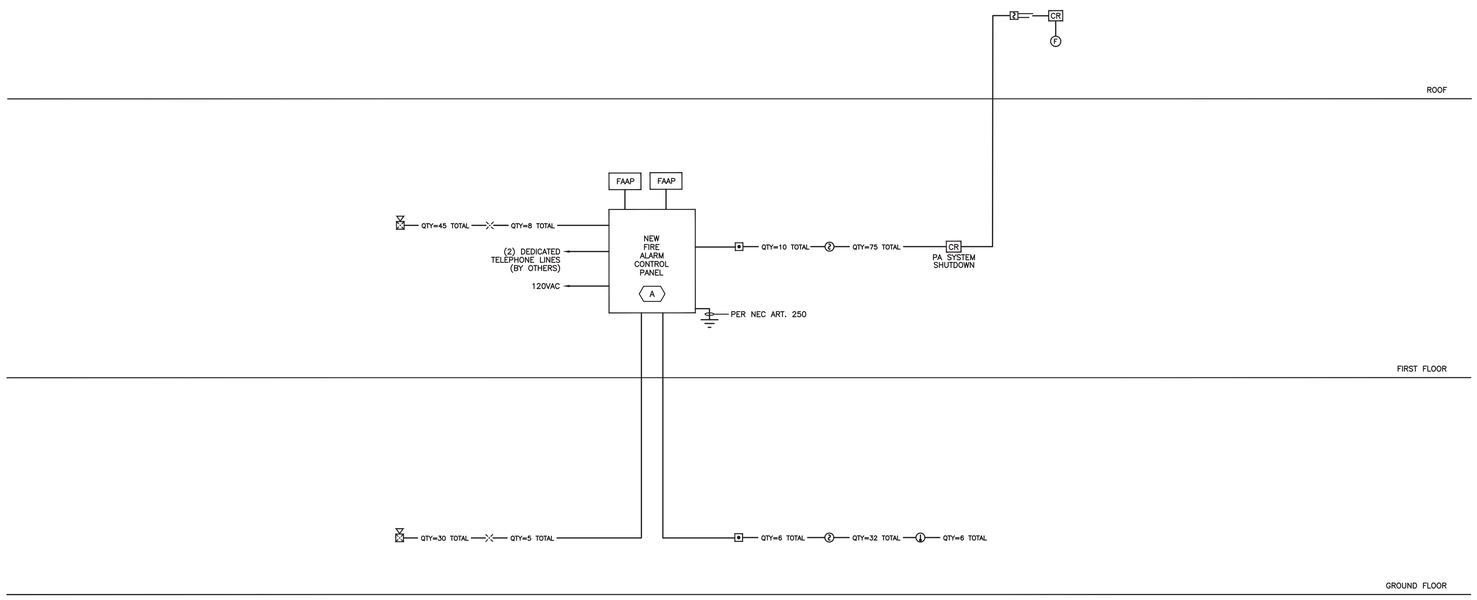
DRAWING TITLE
FIRE ALARM NOTES, LEGEND AND DETAILS

DATE	ISSUED TO
12-09-2024	BID
09-25-2024	ADDENDUM 1
03-05-2024	SED SUBMISSION
11-29-2023	D.D. SUBMISSION
08-31-2023	S.D. SUBMISSION

SHEET SIZE: 30"x42"
DRAWING NO.: CVS FA001
SCALE: AS NOTED
DRAWN BY: LFG
FILE NO.: 23505.02

PLOT DATE: December 02, 2024 - 2:26pm

FILE: N:\Brewster Central Schools\2023 Capital Projects\CV Starr Intermediate School\PACKAGE 2 – Cafetorium\ACAD\Electrical\CVS PKG2_FA–001.dwg



FIRE ALARM LEGEND

	MANUAL PULL STATION WITH COVER
2	SMOKE DETECTOR
135°	HEAT DETECTOR W/TEMP. RATING
	STROBE (MOUNTED AT 80"AFF)
	SPEAKER STROBE MTD @ 80-96" A.F.F.
CS	CEILING MOUNTED STROBE
CO	CARBON MONOXIDE DETECTOR
FACP	FIRE ALARM CONTROL PANEL
FAAP	FIRE ALARM ANNUNCIATOR PANEL
BPS	FIRE ALARM BOOSTER POWER SUPPLY
ANSUL	ANSUL SYSTEM
2	DUCT MOUNTED SMOKE DETECTOR
MM	MONITORING MODULE
CR	CONTROL RELAY
KB	KNOX BOX
FSD	FIRE/SMOKE DAMPER
F	FAN SHUTDOWN
RK	REMOTE KEY SWITCH FOR UNIT RESTART
TS	TAMPER SWITCH
FS	FLOW SWITCH
PS	PRESSURE SWITCH
DH	MAGNETIC DOOR HOLDER
EOL	END OF LINE DEVICE
AOR	AREA OF REFUGE CALLBOX
	BEAM SMOKE DETECTOR
	PLUG-IN HANDSET RECEPTACLE
SA	SUPPLY AIR
RA	RETURN AIR
E	EXISTING
WP	WEATHERPROOF

RISER DIAGRAM CODED NOTES

(A) NOTE: ALL DEVICES SHOWN ARE EXISTING TO BE REPLACED WITH NEW UNLESS OTHERWISE NOTED AS (N) NEW (FIRE/SMOKE DAMPERS). ADDITONAL DEVICES SHOWN FOR ADEQUATE COVERAGE AND CODE COMPLIANCE NOT NOTED AS NEW.

NEW ADDRESSABLE DEVICES THROUGHOUT SHOULD MATCH NEW ADDRESSABLE SPEAKER-STROBE BASED FIRE ALARM SYSTEM INCLUDING FIRE ALARM CONTROL PANEL, ANNUNCIATOR(S) AND ALL ASSOCIATED ACCESSORIES REQUIRED FOR A COMPLETE SYSTEM, INCLUDING ALL NECESSARY INTERFACE COMPONENTS. FIRE ALARM COMPONENTS SHALL BE AN EDWARDS EST BASED SYSTEM PER OWNER COORDINATED STANDARD FOR ALL CAMPUS BUILDINGS.

EXISTING DUCT MOUNTED SMOKE DETECTORS (QUANTITY = 1) FOR ALL MECHANICAL EQUIPMENT IN MECHANICAL ROOMS ARE NOT SHOWN. PROVIDE REPLACEMENT DUCT MOUNTED SMOKE DETECTORS FOR ALL EXISTING DEVICES AND CONNECT TO NEW FIRE ALARM CONTROL PANEL. RECONNECT CONTROL MODULE AND FAN SHUTDOWN RELAY FOR DEACTIVATION OF MECHANICAL EQUIPMENT UPON ALARM. SMOKE DETECTOR MUST BE INSTALLED IN AN ACCESSIBLE LOCATION. INSTALL REMOTE TEST/RESET STATION AS REQUIRED. COORDINATE LOCATION OF TEST STATION WITH G.C.

EXISTING CONVENTIONAL FIRE ALARM CONTROL PANEL AND SYSTEM ACCESSORIES TO BE REPLACED WITH NEW ADDRESSABLE SYSTEM IN PLACE. EXTEND/RECONNECT EXISTING WIRING IF ACCEPTABLE AND PROVIDE ADDITIONAL WIRING AS REQUIRED FOR SPEAKER-STROBE BASED SYSTEM AND FOR ALL NEW ASSOCIATED WORK.

FIRE ALARM RISER DIAGRAM (EXISTING BUILDING)

GENERAL NOTES:

1. THE DRAWINGS ARE DIAGRAMMATIC IN NATURE AND ARE NOT INTENDED TO SHOW EVERY FITTING (i.e. PULL BOX), ETC. THE CONTRACTOR SHALL COORDINATE WITH ALL TRADES PRIOR TO INSTALLATION OF ANY MATERIAL OR EQUIPMENT.
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4. ALL NEW DEVICES SHALL BE COMPATIBLE WITH NEW FIRE ALARM PANEL AND WHITE IN COLOR.
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6. ALL JUNCTION AND PULL BOX COVERS TO BE PAINTED FIRE DEPT. RED.
7. ALL WIRING TO BE CHECKED AND DETERMINED TO BE FREE OF GROUND SHORTS AND HAVE PROPER POLARITY AND END OF LINE RESISTANCE.
8. PROVIDE ALL REQUIRED MODULES, WIRING AND PROGRAMMING TO ACCEPT NEW INDICATED DEVICES – ARRANGE FOR FILING AND ATTACH THE APPLICATION NUMBER OF THE CURRENT BASE BUILDING FIRE ALARM PLANS TO THE SUBMITTAL WITH THE NEW DEVICES ADDED WHERE APPLICABLE ON THE PLANS AND RISER.
9. ALL DEVICES ARE TO BE PROPERLY SUPPORTED WITH APPROPRIATE BRACKETS.
10. ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE LOCAL BUILDING CODE AND THE NATIONAL ELECTRICAL CODE AND REQUIREMENTS SET FORTH BY THE NEW AMERICANS WITH DISABILITIES ACT (A.D.A.).
11. CONTRACTOR SHALL COORDINATE WITH BUILDING FIRE ALARM SERVICE VENDER BEFORE START OF ANY WORK.
12. ALL FIRE ALARM EXPOSED CABLE SHALL BE IN CONDUIT. EXCEPT WHERE INSTALLED IN MERs OVER 8' AFF.
13. ALL FIRE ALARM CABLE SHALL BE APPROVED FOR USE BY AUTHORITY HAVING JURISDICTION.
14. LOCATION OF ALL FIRE ALARM DEVICES AND EXPOSED CONDUITS ARE TO BE LOCATED IN FIELD WITH OWNER.

EMERGENCY COMMUNICATION SYSTEMS NOTE:

SYSTEMS SUCH AS SECURITY; LOCKDOWN; PUBLIC ANNOUNCEMENT; EMERGENCY COMMUNICATION SYSTEMS; MASS NOTIFICATION SYSTEM; BUILDING AUTOMATION SYSTEMS; ETC., WHICH CONNECT TO, OR ARE REQUIRED BY NFPA 72 TO CONNECT TO, THE FIRE ALARM SYSTEM, SHALL COMPLY WITH THE REQUIREMENTS OF NFPA 72 NATIONAL FIRE ALARM CODE TO PROTECT THE INTEGRITY AND RELIABILITY OF THE FIRE ALARM SYSTEM, AND TO ISSUE A COORDINATED MESSAGE. OTHER NOTIFICATION SYSTEMS SHALL COORDINATE WITH THE FIRE ALARM NOTIFICATION SYSTEM TO AVOID CONFUSION OF DIRECTIONS AND INTENDED ACTIONS AND RESPONSE.

		CONTROL UNIT ANNUNCIATOR										NOTIFICATION			REQUIRED FIRE SAFETY CONTROL		CENTRAL OFFICE NOTIFICATION				
		ACTIVATE COMMON ALARM SIGNAL INDICATOR (LED)	ACTIVATE AUDIBLE ALARM SIGNAL (BUZZER ON FCS)	ACTIVATE COMMON SUPERVISORY SIGNAL INDICTOR (LED)	ACTIVATE AUDIBLE SUPERVISORY SIGNAL (BUZZER ON FCS)	ACTIVATE COMMON TROUBLE SIGNAL INDICATOR (LED)	ACTIVATE COMMON TROUBLE SIGNAL (BUZZER ON FCS)	ANNUNCIATE ALARM DEVICE BY FLOOR (LCD DISPLAY)	ANNUNCIATE SUPERVISORY DEVICE BY FLOOR (LCD DISPLAY)	ANNUNCIATE TROUBLE DEVICE BY FLOOR (LCD DISPLAY)	ACTIVATE ALL FLOOR HORNS	ACTIVATE ALL FLOOR STROBES		SHUTDOWN AC UNIT		TRANSMIT SMOKE/HEAT/DUCT DETECTOR ALARM SIGNAL	TRANSMIT MANUAL ALARM SIGNAL	TRANSMIT TROUBLE SIGNAL	TRANSMIT SUPERVISORY SIGNAL	TRANSMIT WATER FLOW ALARM SIGNAL
SYSTEM INPUTS		A	B	C	D	E	F	G	H	I	J	K	L	M		O	P	Q	R	S
SMOKE DETECTOR	1	X	X					X			X	X				X				
DUCT DETECTOR	2			X	X				X					X					X	
MANUAL PULL STATION	3	X	X					X			X	X					X			
FLOW SWITCH	4	X	X					X			X	X								X
TAMPER SWITCH	5			X	X				X										X	
FIRE ALARM AC POWER FAILURE	6			X	X				X									X		
FIRE ALARM SYSTEM LOW BATTERY	7					X	X			X								X		
OPEN CIRCUIT	8					X	X			X								X		
GROUND FAULT	9					X	X			X								X		
NOTIFICATION APPLIANCE CIRCUIT SHORT	10					X	X			X								X		

FIRE ALARM SYSTEM INPUT/OUTPUT MATRIX

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(203) 866-8019 Fax

LICENSE EXP. DATE: 03-31-2026

S.E.D. CONTROL NUMBER:
48-06-01-06-0-001-026

PROJECT TITLE
BREWSTER CENTRAL SCHOOL DISTRICT
C.V. STARR INTERMEDIATE SCHOOL
CAFETORIUM ADDITION, INTERIOR RENOVATIONS & RELATED WORK
20 FARM TO MARKET ROAD BREWSTER, NY 10509

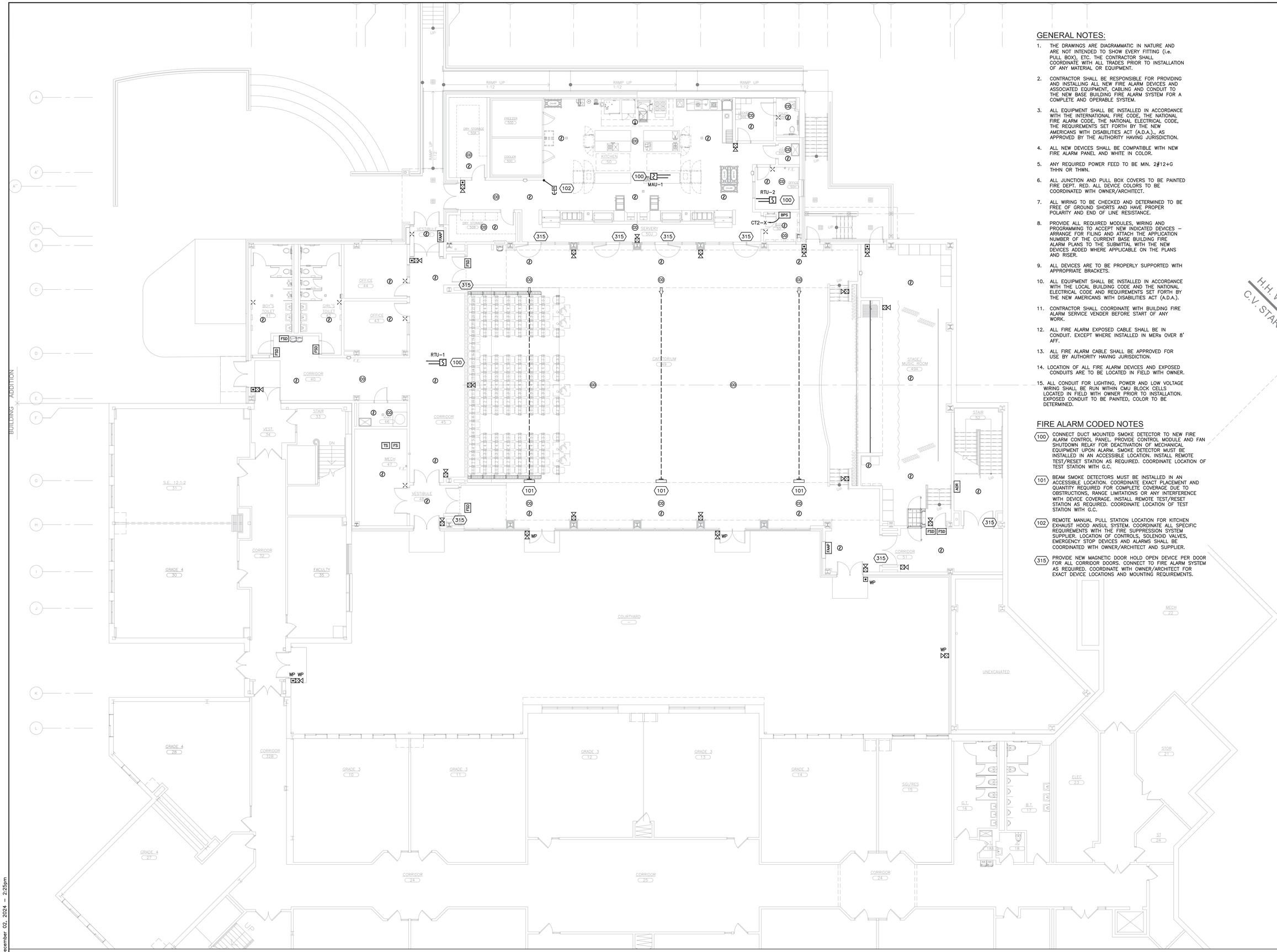
DRAWING TITLE
FIRE ALARM NOTES, DIAGRAMS & DETAILS
(EXISTING BUILDING)

DATE	ISSUED TO
12-09-2024	BID
09-25-2024	ADDENDUM 1
03-05-2024	SED SUBMISSION
11-29-2023	D.D. SUBMISSION
08-31-2023	S.D. SUBMISSION

SHEET SIZE 30"x42"
SCALE AS NOTED
DRAWING NO. CVS FA001E
DRAWN BY LFG
FILE NO. 23505.02

PLOT DATE: December 06, 2024 - 8:58am

FILE: N:\Brewster Central Schools\2023 Capital Projects\CV Starr Intermediate School\PACKAGE 3 - BCS Upgrades\ACAD\Electrical\CVS PKG2_FA-001E - Copy.dwg



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15. ALL CONDUIT FOR LIGHTING, POWER AND LOW VOLTAGE WIRING SHALL BE RUN WITHIN CMU BLOCK CELLS LOCATED IN FIELD WITH OWNER PRIOR TO INSTALLATION. EXPOSED CONDUIT TO BE PAINTED, COLOR TO BE DETERMINED.

FIRE ALARM CODED NOTES

(100) CONNECT DUCT MOUNTED SMOKE DETECTOR TO NEW FIRE ALARM CONTROL PANEL. PROVIDE CONTROL MODULE AND FAN SHUTDOWN RELAY FOR DEACTIVATION OF MECHANICAL EQUIPMENT UPON ALARM. SMOKE DETECTOR MUST BE INSTALLED IN AN ACCESSIBLE LOCATION. INSTALL REMOTE TEST/RESET STATION AS REQUIRED. COORDINATE LOCATION OF TEST STATION WITH G.C.

(101) BEAM SMOKE DETECTORS MUST BE INSTALLED IN AN ACCESSIBLE LOCATION. COORDINATE EXACT PLACEMENT AND QUANTITY REQUIRED FOR COMPLETE COVERAGE DUE TO OBSTRUCTIONS, RANGE LIMITATIONS OR ANY INTERFERENCE WITH DEVICE COVERAGE. INSTALL REMOTE TEST/RESET STATION AS REQUIRED. COORDINATE LOCATION OF TEST STATION WITH G.C.

(102) REMOTE MANUAL PULL STATION LOCATION FOR KITCHEN EXHAUST HOOD ANSUL SYSTEM. COORDINATE ALL SPECIFIC REQUIREMENTS WITH THE FIRE SUPPRESSION SYSTEM SUPPLIER. LOCATION OF CONTROLS, SOLENOID VALVES, EMERGENCY STOP DEVICES AND ALARMS SHALL BE COORDINATED WITH OWNER/ARCHITECT AND SUPPLIER.

(315) PROVIDE NEW MAGNETIC DOOR HOLD OPEN DEVICE PER DOOR FOR ALL CORRIDOR DOORS. CONNECT TO FIRE ALARM SYSTEM AS REQUIRED. COORDINATE WITH OWNER/ARCHITECT FOR EXACT DEVICE LOCATIONS AND MOUNTING REQUIREMENTS.

1 FIRE ALARM PLAN
SCALE: 1/8" = 1'-0"

AS PER USA CONGRESS ARCHITECTURAL WORKS COPYRIGHT PROTECTION ACT OF 1990 ALL IDEAS AND DESIGNS INCLUDING DERIVATIVES THEREOF, ALL DRAWINGS AND SPECIFICATIONS CONSTITUTE THE ORIGINAL COPYRIGHT WORK BY FULLER AND D'ANGELO, P.C. (F&D). THE DRAWINGS AND SPECIFICATIONS AS INSTRUMENTS OF SERVICE BY F&D ARE CREATED BY F&D FOR THIS PROJECT ONLY AND REMAIN THE PRODUCT AND PROPERTY OF F&D. ANY REPRODUCTION WITHOUT THE PRIOR CONSENT OF F&D IS PROHIBITED.

KEY PLAN (NOT TO SCALE)

H.H. W
C.V. STAR

FULLER D'ANGELO P.C. ARCHITECTS PLANNERS
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252 East Avenue
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(203) 866-6644
(203) 866-8019 Fax

LICENSE EXP. DATE: 03-31-2026

S.E.D. CONTROL NUMBER:
48-05-01-06-0-001-026

PROJECT TITLE
BREWSTER CENTRAL SCHOOL DISTRICT
C.V. STARR INTERMEDIATE SCHOOL
CAFETORIUM ADDITION, INTERIOR
RENOVATIONS & SITE IMPROVEMENTS
20 FARM TO MARKET ROAD BREWSTER, NY 10509

DRAWING TITLE
GROUND FLOOR
FIRE ALARM PLAN

DATE	ISSUED TO
12-09-2024	BID
09-25-2024	ADDENDUM 1
03-05-2024	SED SUBMISSION
11-29-2023	D.D. SUBMISSION
08-31-2023	S.D. SUBMISSION

SHEET SIZE: 30"x42"
DRAWING NO.: CVS FA100
SCALE: AS NOTED
DRAWN BY: LFG
FILE NO.: 23505.02

PLOT DATE: December 02, 2024 – 2:25pm
FILE: N:\Brewster Central Schools\2023 Capital Projects\CV Starr Intermediate School\PACKAGE 2 – Cafetorium\ACAD\Electrical\CVS PKG2_FA–100.dwg

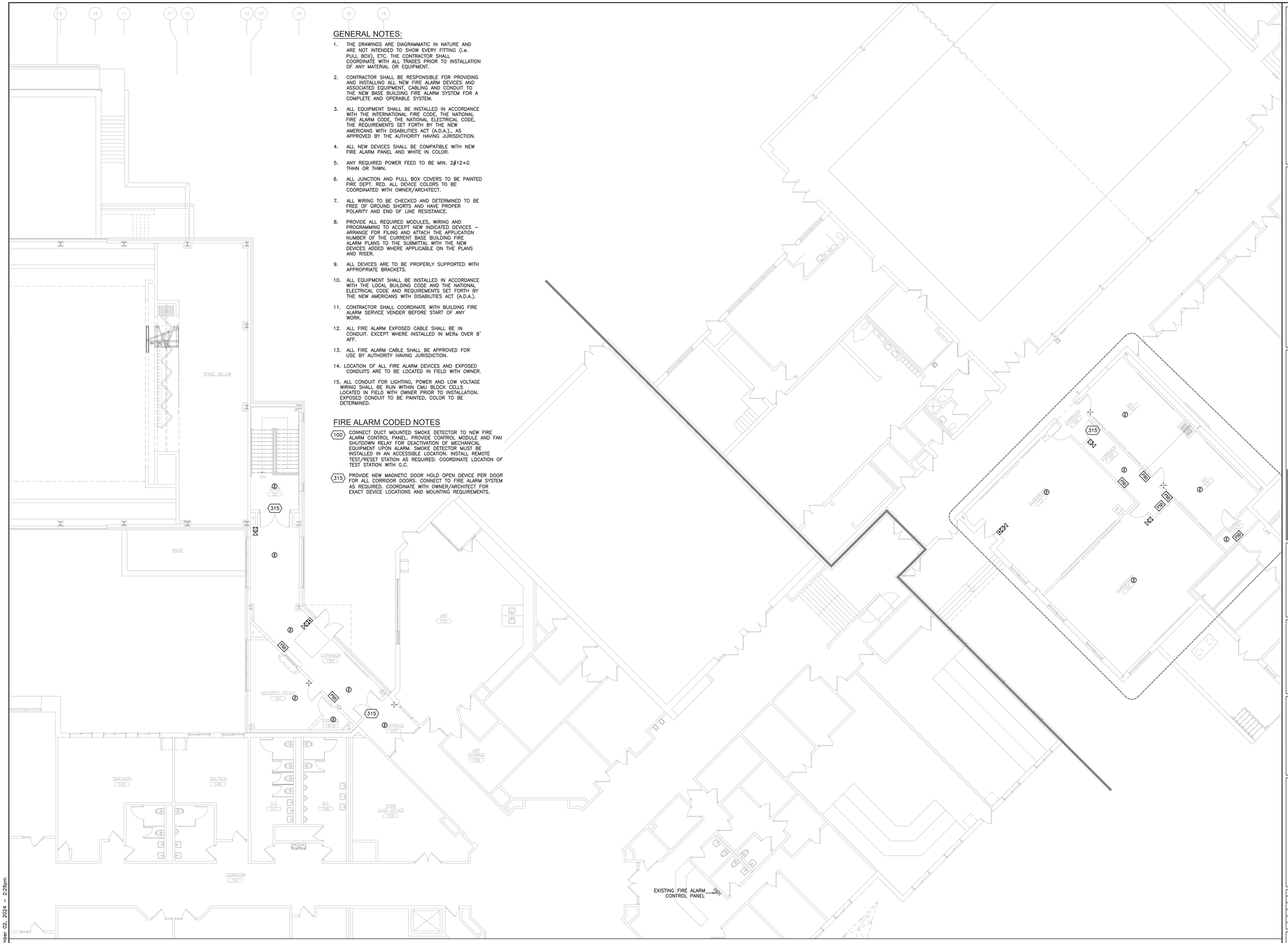
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2. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND INSTALLING ALL NEW FIRE ALARM DEVICES AND ASSOCIATED EQUIPMENT, CABLING AND CONDUIT TO THE NEW BASE BUILDING FIRE ALARM SYSTEM FOR A COMPLETE AND OPERABLE SYSTEM.
3. ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE INTERNATIONAL FIRE CODE, THE NATIONAL FIRE ALARM CODE, THE NATIONAL ELECTRICAL CODE, THE REQUIREMENTS SET FORTH BY THE NEW AMERICANS WITH DISABILITIES ACT (A.D.A.), AS APPROVED BY THE AUTHORITY HAVING JURISDICTION.
4. ALL NEW DEVICES SHALL BE COMPATIBLE WITH NEW FIRE ALARM PANEL AND WHITE IN COLOR.
5. ANY REQUIRED POWER FEED TO BE MIN. 2#12+G THHN OR THWN.
6. ALL JUNCTION AND PULL BOX COVERS TO BE PAINTED FIRE DEPT. RED. ALL DEVICE COLORS TO BE COORDINATED WITH OWNER/ARCHITECT.
7. ALL WIRING TO BE CHECKED AND DETERMINED TO BE FREE OF GROUND SHORTS AND HAVE PROPER POLARITY AND END OF LINE RESISTANCE.
8. PROVIDE ALL REQUIRED MODULES, WIRING AND PROGRAMMING TO ACCEPT NEW INDICATED DEVICES – ARRANGE FOR FILING AND ATTACH THE APPLICATION NUMBER OF THE CURRENT BASE BUILDING FIRE ALARM PLANS TO THE SUBMITTAL WITH THE NEW DEVICES ADDED WHERE APPLICABLE ON THE PLANS AND RISER.
9. ALL DEVICES ARE TO BE PROPERLY SUPPORTED WITH APPROPRIATE BRACKETS.
10. ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE LOCAL BUILDING CODE AND THE NATIONAL ELECTRICAL CODE AND REQUIREMENTS SET FORTH BY THE NEW AMERICANS WITH DISABILITIES ACT (A.D.A.).
11. CONTRACTOR SHALL COORDINATE WITH BUILDING FIRE ALARM SERVICE VENDER BEFORE START OF ANY WORK.
12. ALL FIRE ALARM EXPOSED CABLE SHALL BE IN CONDUIT. EXCEPT WHERE INSTALLED IN MERs OVER 8' AFF.
13. ALL FIRE ALARM CABLE SHALL BE APPROVED FOR USE BY AUTHORITY HAVING JURISDICTION.
14. LOCATION OF ALL FIRE ALARM DEVICES AND EXPOSED CONDUITS ARE TO BE LOCATED IN FIELD WITH OWNER.
15. ALL CONDUIT FOR LIGHTING, POWER AND LOW VOLTAGE WIRING SHALL BE RUN WITHIN CMU BLOCK CELLS LOCATED IN FIELD WITH OWNER PRIOR TO INSTALLATION. EXPOSED CONDUIT TO BE PAINTED, COLOR TO BE DETERMINED.

FIRE ALARM CODED NOTES

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1 FIRE ALARM PLAN
SCALE: 1/8" = 1'-0"

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WWW.FULLERDANGELO.COM
PROJECT NO. 23505.02 Project 2023 Arch Permit\23505.02 Drawings.pln

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(203) 866-8019 Fax

LICENSE EXP. DATE: 03-31-2026

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C.V. STARR INTERMEDIATE SCHOOL
CAFETORIUM ADDITION/INTERIOR RENOVATIONS & SITE IMPROVEMENTS
20 FARM TO MARKET ROAD BREWSTER, NY 10509

DRAWING TITLE
FIRST FLOOR
FIRE ALARM PLAN

DATE	ISSUED TO
12-09-2024	BID
09-25-2024	ADDENDUM 1
03-05-2024	SED SUBMISSION
11-29-2023	D.D. SUBMISSION
08-31-2023	S.D. SUBMISSION

SHEET SIZE 30"x42"
DRAWING NO. CVS FA101
SCALE AS NOTED
DRAWN BY LFG
FILE NO. 23505.02

PLOT DATE: December 02, 2024 - 2:29pm
FILE: N:\Brewster Central Schools\2023 Capital Projects\CV Starr Intermediate School\PACKAGE 2 – Cafetorium\ACAD\Electrical\CVS PKG2_FA-101.dwg

GENERAL NOTES:

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3. ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE INTERNATIONAL FIRE CODE, THE NATIONAL FIRE ALARM CODE, THE NATIONAL ELECTRICAL CODE, THE REQUIREMENTS SET FORTH BY THE NEW AMERICANS WITH DISABILITIES ACT (A.D.A.), AS APPROVED BY THE AUTHORITY HAVING JURISDICTION.

4. ANY REQUIRED POWER FEED TO BE MIN. 2#12+G THHN OR THWN.

5. ALL JUNCTION AND PULL BOX COVERS TO BE PAINTED FIRE DEPT. RED. ALL DEVICE COLORS TO BE COORDINATED WITH OWNER/ARCHITECT.

6. ALL WIRING TO BE CHECKED AND DETERMINED TO BE FREE OF GROUND SHORTS AND HAVE PROPER POLARITY AND END OF LINE RESISTANCE.

7. PROVIDE ALL REQUIRED MODULES, WIRING AND PROGRAMMING TO ACCEPT NEW INDICATED DEVICES – ARRANGE FOR FILING AND ATTACH THE APPLICATION NUMBER OF THE CURRENT BASE BUILDING FIRE ALARM PLANS TO THE SUBMITTAL WITH THE NEW DEVICES ADDED WHERE APPLICABLE ON THE PLANS AND RISER.

8. ALL DEVICES ARE TO BE PROPERLY SUPPORTED WITH APPROPRIATE BRACKETS.

9. CONTRACTOR SHALL COORDINATE WITH BUILDING FIRE ALARM SERVICE VENDER BEFORE START OF ANY WORK.

10. ALL FIRE ALARM EXPOSED CABLE SHALL BE IN CONDUIT. EXCEPT WHERE INSTALLED IN MERs OVER 8' AFF.

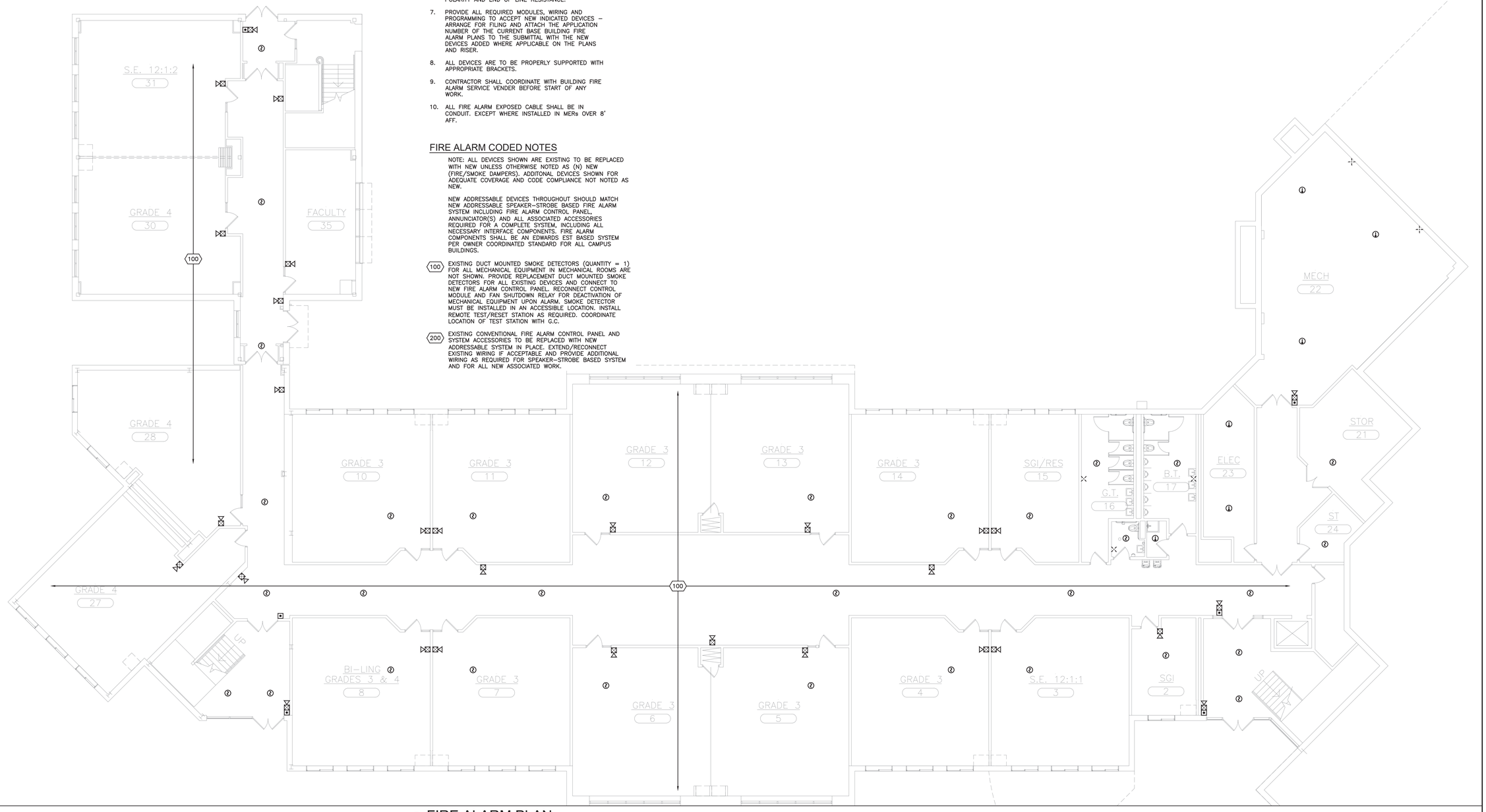
FIRE ALARM CODED NOTES

NOTE: ALL DEVICES SHOWN ARE EXISTING TO BE REPLACED WITH NEW UNLESS OTHERWISE NOTED AS (N) NEW (FIRE/SMOKE DAMPERS). ADDITONAL DEVICES SHOWN FOR ADEQUATE COVERAGE AND CODE COMPLIANCE NOT NOTED AS NEW.

NEW ADDRESSABLE DEVICES THROUGHOUT SHOULD MATCH NEW ADDRESSABLE SPEAKER–STROBE BASED FIRE ALARM SYSTEM INCLUDING FIRE ALARM CONTROL PANEL, ANNUNCIATOR(S) AND ALL ASSOCIATED ACCESSORIES REQUIRED FOR A COMPLETE SYSTEM, INCLUDING ALL NECESSARY INTERFACE COMPONENTS. FIRE ALARM COMPONENTS SHALL BE AN EDWARDS EST BASED SYSTEM PER OWNER COORDINATED STANDARD FOR ALL CAMPUS BUILDINGS.

(100) EXISTING DUCT MOUNTED SMOKE DETECTORS (QUANTITY = 1) FOR ALL MECHANICAL EQUIPMENT IN MECHANICAL ROOMS ARE NOT SHOWN. PROVIDE REPLACEMENT DUCT MOUNTED SMOKE DETECTORS FOR ALL EXISTING DEVICES AND CONNECT TO NEW FIRE ALARM CONTROL PANEL. RECONNECT CONTROL MODULE AND FAN SHUTDOWN RELAY FOR DEACTIVATION OF MECHANICAL EQUIPMENT UPON ALARM. SMOKE DETECTOR MUST BE INSTALLED IN AN ACCESSIBLE LOCATION. INSTALL REMOTE TEST/RESET STATION AS REQUIRED. COORDINATE LOCATION OF TEST STATION WITH G.C.

(200) EXISTING CONVENTIONAL FIRE ALARM CONTROL PANEL AND SYSTEM ACCESSORIES TO BE REPLACED WITH NEW ADDRESSABLE SYSTEM IN PLACE. EXTEND/RECONNECT EXISTING WIRING IF ACCEPTABLE AND PROVIDE ADDITIONAL WIRING AS REQUIRED FOR SPEAKER–STROBE BASED SYSTEM AND FOR ALL NEW ASSOCIATED WORK.



1 FIRE ALARM PLAN
SCALE: 1/8" = 1'-0"

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C.V. STARR

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(203) 866-6615 Tel
(203) 866-6919 Fax

LICENSE EXP. DATE: 03-31-2026

S.E.D. CONTROL NUMBER:
48-06-01-06-0-001-026

PROJECT TITLE
BREWSTER CENTRAL SCHOOL DISTRICT
C.V. STARR INTERMEDIATE SCHOOL
CAFETORIUM ADDITION, INTERIOR RENOVATIONS AND SITE WORK
257 FARM TO MARKET ROAD BREWSTER, NY 10509

DRAWING TITLE
GROUND FLOOR
FIRE ALARM PLAN
(EXISTING BUILDING)

DATE	ISSUED TO
12-09-2024	BID
09-25-2024	ADDENDUM 1
03-05-2024	SED SUBMISSION
11-29-2023	D.D. SUBMISSION
08-31-2023	S.D. SUBMISSION

SHEET SIZE: 30"x42"
DRAWING NO.: CVS FA102
SCALE: AS NOTED
DRAWN BY: LFG
FILE NO.: 23505.02

PLOT DATE: December 06, 2024 - 8:59am

FILE: N:\Brewster Central Schools\2023 Capital Projects\CV Starr Intermediate School\PACKAGE 3 – BCS Upgrades\ACAD\Electrical\CVS PKG2_FA–102 – Copy.dwg

GENERAL NOTES:

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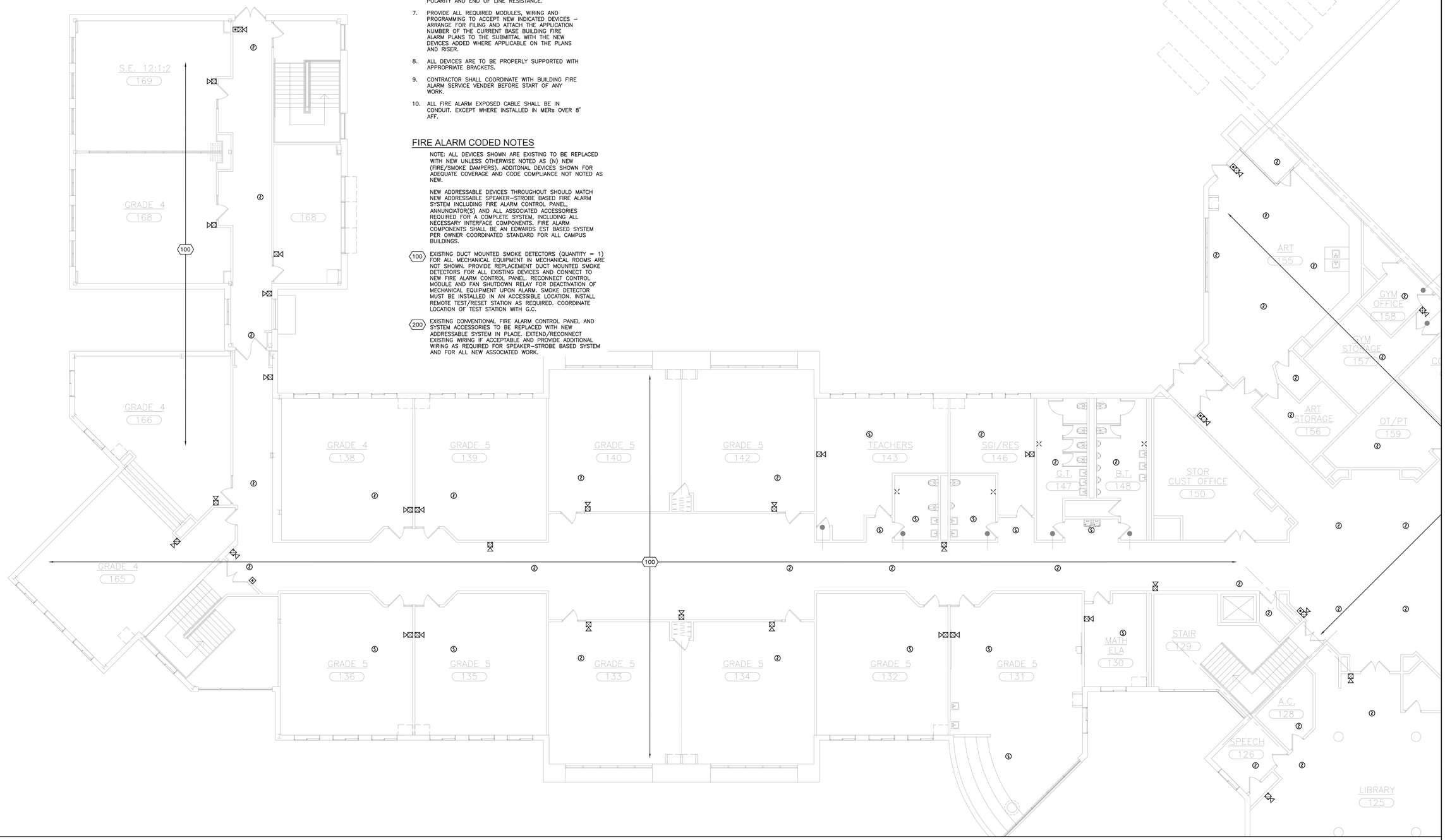
FIRE ALARM CODED NOTES

NOTE: ALL DEVICES SHOWN ARE EXISTING TO BE REPLACED WITH NEW UNLESS OTHERWISE NOTED AS (N) NEW (FIRE/SMOKE DAMPERS). ADDITONAL DEVICES SHOWN FOR ADEQUATE COVERAGE AND CODE COMPLIANCE NOT NOTED AS NEW.

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1 FIRE ALARM PLAN
SCALE: 1/8" = 1'-0"

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LICENSE EXP. DATE: 03-31-2026

S.E.D. CONTROL NUMBER:
48-05-01-06-0-001-026

PROJECT TITLE:
BREWSTER CENTRAL SCHOOL DISTRICT
C.V. STARR INTERMEDIATE SCHOOL
RENOVATION & ADDITION, INTERIOR
CAFETORIUM ADDITION, EXTERIOR
20 FARM TO MARKET ROAD BREWSTER, NY 10509

DRAWING TITLE:
FIRST FLOOR
FIRE ALARM PLAN
(EXISTING BUILDING)

DATE	ISSUED TO
12-09-2024	BID
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03-05-2024	SED SUBMISSION
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SHEET SIZE: 30"x42"
DRAWING NO.: CVS FA103A
SCALE: AS NOTED
DRAWN BY: LFG
FILE NO.: 23505.02

PLOT DATE: December 06, 2024 - 9:00am

FILE: N:\Brewster Central Schools\2023 Capital Projects\CV Starr Intermediate School\PACKAGE 3 – BCS Upgrades\ACAD\Electrical\CVS PKG2_FA-103A_FA-103B – Copy.dwg



1 FIRE ALARM PLAN
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PART OF ARCHITECTURE DPC

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FILE: N:\Brewster Central Schools\2023 Capital Projects\CV Starr Intermediate School\PACKAGE 3 - BCS Upgrades\ACAD\Electrical\CVS PKG2_FA-103A_FA-103B - Copy.dwg

PLUMBING EQUIPMENT SCHEDULE

FCO — FLOOR CLEANOUT: JAY R. SMITH MODEL #4023S, ROUND NICKEL BRONZE TOP WITH BRONZE PLUG, 4" NO-HUB SPIGOT OUTLET, ADJUSTABLE HEIGHT BEFORE/AFTER CONCRETE POUR, DUCO COATED. INSTALL PER MANUFACTURERS RECOMMENDATIONS.

FD-1 — FLOOR DRAIN JAY R. SMITH; MODEL #2005Y-06-NB, 6" DIAMETER SQUARE STRAINER (12.55Q IN.) 3" OUTLET, NO-HUB SPIGOT OUTLET, WITH 1/2" TRAP PRIMER CONNECTION

FS-1 — FLOOR SINK JAY R. SMITH; MODEL #325-Y03, 12"x12"x6" FLOOR SINK WITH FLANGE, 3" NO-HUB OULET, ENAMEL COATED.

SA-1 — SHOCK ABSORBER: JOSAM "ABSORBOTRON II" MODEL #75000, 1" NPT, ALL STAINLESS STEEL, INSTALL PER MANUFACTURERS RECOMMENDATIONS. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.

TP-1 — TRAP PRIMER VALVE: PRECISION PLUMBING PRODUCTS MODEL #PR-500, LEAD FREE AUTOMATIC TRAP PRIMER, 1/2" INLET/OUTLET, BRASS, W/INTEGRAL VACUUM BREAKER. INSTALL PER MANUFACTURERS RECOMMENDATIONS.

GI-1 — GREASE INTERCEPTOR: HIGHLAND TANK MODEL #HM-100-93, 350 GALLON SINGLE WALL UNDERGROUND TANK, 7 GAUGE CARBON STEEL, HIGHGAURD POLYURETHANE EXTERIOR COATING, 4" SCHEDULE 40 INLET & OUTLET, 2" VENT PER PIPE CONNECTION, TANK WITH 24"ø MANWAY AND STACKABLE RISERS, 36" MANWAY AT GRADE LEVEL, (2) CONCRETE DEADMAN (ANCHORS) AND (2) POLYESTER HOLD-DOWN STRAPS. 60" MAXIMUM BURIAL DEPTH AT INLET CONNECTION.

RD-1 — ROOF DRAIN JAY R. SMITH MODEL #1011YC, 15" DIAMETER ROOF DRAIN 4" OUTLET, DURA-CAST CAST IRON BODY, FLASHING CLAMP, STAINLESS STEEL PERFORATED GRAVEL GUARD,

OFD-1 — ROOF DRAIN: JAY R. SMITH MODEL #1070-100-SP2, 15" DIAMETER ROOF DRAIN 4" OUTLET, DURA-CAST CAST IRON BODY, FLASHING CLAMP, GRAVEL STOP, P.V.C. STANDPIPE

OFD-2 — ROOF DRAIN: JAY R. SMITH MODEL #1070-100-SP2, 15" DIAMETER ROOF DRAIN 6" OUTLET, DURA-CAST CAST IRON BODY, FLASHING CLAMP, GRAVEL STOP, P.V.C. STANDPIPE

OFN-1 — DOWNSPOUT NOZZLE: JAY R. SMITH MODEL #1770Y-ADA-08-BS-NB, 4" DIAMETER INLET, BIRD SCREEN, NO-HUB ADAPTOR (MODEL #2646Y 8") NICKEL BRONZE BODY.
ALTERNATE DOWNSPOUT NOZZLE: ZURN MODEL #Z199-ZANB-SS-NH, 4" DIAMETER INLET, STAINLESS STEEL BIRD SCREEN, NO-HUB, NICKEL BRONZE BODY.

OFN-2 — DOWNSPOUT NOZZLE: JAY R. SMITH MODEL #1770Y-ADA-08-BS-NB, 6" DIAMETER INLET, BIRD SCREEN, NO-HUB ADAPTOR (MODEL #2646Y 8") NICKEL BRONZE BODY.
ALTERNATE DOWNSPOUT NOZZLE: ZURN MODEL #Z199-ZANB-SS-NH, 6" DIAMETER INLET, STAINLESS STEEL BIRD SCREEN, NO-HUB, NICKEL BRONZE BODY.

HB-1 — HOSE BIBB: JAY R. SMITH MODEL #5609QT-IC1, 1" MALE NPT INLET, 1/4 TURN NON-FREEZE WALL HYDRANT WITH INTEGRAL VACUUM BREAKER, BRONZE NICKEL PLATED BODY, REMOVABLE KEY. WATER INLET CONNECTION SHALL BE WITHIN HEATED SPACE.

CS-1 — HOT WATER BALANCING VALVE: CIRCUITSOLVER MODEL #CSUTD-D-3/4-105/170-CV1-TW, 3/4" INLET & OUTLET, INTEGRAL CHECK VALVE, EXTERNAL MOUNT THERMOMETER, BRASS CONSTRUCTION, LEAD FREE, Cv; MAX 1.8 OPEN, DESIGN 0.85

P-1 — CIRCULATOR PUMP: TACO MODEL #VR3450-HY1-FS2A00 (0034e-SF2), 3/4" INLET, 3GPM, 16.4FT HEAD. STAINLESS STEEL CASING ONLY IN OPEN LOOP SYSTEM, PROVIDE AQUASTAT AT FURTHEST POINT OF TRUNK (SEE PLUMBING FLOOR PLAN)

HB-1 — HOSE BIBB: JAY R. SMITH MODEL #5609QT, 1/4 TURN FULL FLOW WITH KEY, 1" MALE NPT INLET CONNECTION AND "NO-LEAD" BRAZING RINGS. FINAL WALL THICKNESS TO BE DETERMINED IN FIELD PRIOR TO ORDERING.

MV-1 — MIXING VALVE: WATTS MODEL #LFLM491-1, 3/4" THREADED CONNECTIONS, LEAD FREE BRASS BODY, ADJUSTABLE TEMPERATURE SELECTION WITH LOCK DOWN, UNION CONNECTIONS, INTEGRAL CHECKS AND SCREEN. 125 PSI MAX PRESSURE AND 200°F MAX OPERATING TEMP. SET MIXING VALVE OUTLET AT A MAXIMUM TEMPERATURE OF 110°F TO FIXTURES.

MV-2 — MIXING VALVE: WATTS MODEL #LFUSG-HWP, LEAD FREE BRASS BODY, TEMPERATURE WATER ADJUSTMENT TAMPER RESISTANT LOCKING NUT, BUILT IN CHECK VALVE WITH SS STRAINER. ALL MIXING VALVES SHALL CONFORM TO ASSE 1070 PER LATEST IPC.

AS-1 — AIR SEPARATOR: SPIROTECH MODEL #SPIROTOP, 3/4" BRASS, 180DEG MAX.

SP-1 — SUMP PUMP: (24"X24"D SUMP PIT) STANCOR MODEL: SE50 SIMPLEX OIL-MINDER SYSTEM SUBMERSIBLE PUMP, NEMA 4x OIL MINDER CONTROL PANEL, OIL PROBE, FLOAT SWITCHES, INDICATOR LIGHTS, WATER ALARMS, 6' CORD, SCREENED INLET, 75 GPM, 2" DISCHARGE, 115V, 8 AMPS, 1/2 HP, 5' HEAD @ 4500 GPH, W/25' PWR. CORD

PRV-1 — PRESSURE REDUCING VALVE – WATTS MODEL#LF127W, 3" FLANGED INLET/OUTLET, LEAD FREE CAST COPPER SILICON ALLOY BODY, REPLACEABLE SS SEATS, SS STEM, TEMPERATURE RANGE 33°F-160°F, MAXIMUM WORKING PRESSURE 175PSI, ADJUSTABLE PRESSURE RANGE SET TO 60PSI.

PRV-2 — PRESSURE REDUCING VALVE – WATTS MODEL#LF223, 1" THREADED INLET/OUTLET, LEAD FREE CAST COPPER SILICON ALLOY BODY, IRON SPRING CAGE, SS STEM, TEMPERATURE RANGE 33°F-160°F, MAXIMUM WORKING PRESSURE 300PSI, ADJUSTABLE PRESSURE RANGE 25-75PSI. SET 10PSI HIGHER THAN PRV-1 (WATTS #LF127W).

PRV-2 — PRESSURE REDUCING VALVE – WATTS MODEL#LF223, 1" THREADED INLET/OUTLET, LEAD FREE CAST COPPER SILICON ALLOY BODY, IRON SPRING CAGE, SS STEM, TEMPERATURE RANGE 33°F-160°F,

PLUMBING GENERAL NOTES

1. GENERAL NOTES, SYMBOLS LIST AND DETAILS ARE APPLICABLE TO ALL DRAWINGS MARKED P.
2. DRAWINGS ARE DIAGRAMMATIC: DETERMINE LOCATIONS OF PLUMBING SYSTEMS AND COMPONENTS IN FIELD.
3. NEITHER ACCURACY NOR COMPLETION OF UTILITY LOCATIONS SHOWN ON DRAWINGS IS GUARANTEED. DETERMINE EXACT LOCATIONS OF EXISTING PLUMBING IN FIELD PERTAINING TO SCOPE OF WORK, WHETHER OR NOT SHOWN ON DRAWINGS. EXERCISE CAUTION AND IDENTIFY LOCATIONS OF UNMARKED UTILITY LINES AS NECESSARY TO PERFORM WORK OF THIS SECTION.
4. ALL PLUMBING WORK SHALL BE IN ACCORDANCE WITH THE CURRENT PLUMBING CODE AND ALL APPLICABLE LOCAL CODES AND DRAWINGS.
5. IT SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR TO COORDINATE HIS WORK WITH THAT OF ALL OTHER TRADES, INCLUDING (BUT NOT LIMITED TO), ELECTRICAL, HVAC PROCESS PIPING, SPRINKLER, PLUMBING, STRUCTURAL, AND GENERAL ARCHITECTURE.
6. ANY INTERFERENCE SHALL BE BROUGHT TO THE ATTENTION OF THE CONSTRUCTION MANAGER AND THE OWNER'S REPRESENTATIVE, AND SHALL BE RESOLVED PRIOR TO INSTALLATION OF THE WORK INVOLVED.
7. NO WORK SHALL BE INSTALLED IN VIOLATION OF ANY GOVERNING CODES. ANY WORK SHOWN ON THE DRAWINGS WHICH IS IN VIOLATION OF SUCH CODES SHALL BE BROUGHT TO THE ATTENTION OF THE CONSTRUCTION MANAGER AND THE OWNER'S REPRESENTATIVE AND SHALL BE RESOLVED PRIOR TO THE INSTALLATION OF THE WORK INVOLVED.
8. ALL PIPING PENETRATING CEILING AND WALLS SHALL BE INSTALLED WITH CHROME (STAINLESS WHERE NOTED) PLATED ESCUTCHEONS AT THE PENETRATION. PIPING PENETRATING RATED PARTITIONS SHALL BE PROTECTED AS REQUIRED BY LOCAL CODE AUTHORITY (SEE DETAILS).
9. MANUFACTURER'S MODEL NUMBERS ARE SPECIFIED SOLELY TO ESTABLISH MINIMUM STANDARDS OF QUALITY FOR PERFORMANCE AND MATERIALS.
10. PRODUCTION INSTALLATION SHALL ADHERE TO MANUFACTURERS' RECOMMENDATIONS.
11. PROVIDE ACCESS PANELS FOR EQUIPMENT THAT REQUIRES PERIODIC SERVICE.
12. ALL PIPING ABOVE GRADE SHALL BE PROPERLY SUPPORTED BY THE BUILDING STRUCTURE AND SHALL NOT REST ON CEILING TILES OR CEILING STRUCTURE.
13. CONTRACTOR SHALL COORDINATE WITH AN ELECTRICAL CONTRACTOR AND REQUIREMENTS OF ALL PLUMBING EQUIPMENT. THE ELECTRICAL CONTRACTOR SHALL FURNISH EQUIPMENT WIRED FOR THE VOLTAGES SHOWN HEREIN PER NYC ELECTRICAL CODE AND LOCAL CODE REQUIREMENTS.
14. PROVIDE SHUTOFF VALVES ON ALL BRANCH PIPING AND ON ALL SUPPLIES TO INDIVIDUAL FIXTURES AND EQUIPMENT. PROVIDE BALL VALVES ON ALL WATER MAIN BRANCHES IN CORRIDORS IF POSSIBLE AND ALL VALVES SHALL BE ACCESSIBLE VIA ACCESS PANEL.
15. ALL SLEEVES THROUGH CONCRETE FLOORS AND ALL CORE DRILLING OF CONCRETE FLOORS AND WALLS SHALL BE BY THIS CONTRACTOR.
16. SCHEDULE WORK OF THIS SECTION TO AVOID INTERFERENCE WITH FIRE-PROOFING WORK.
17. RUN PIPING CONCEALED, UNLESS SPECIFIED OTHERWISE, AND CLEAR OF CEILING INSERTS.
18. STRUCTURAL WELDING SHALL BE 1/4-INCH FILLET UNLESS REQUIRED OTHERWISE. COORDINATE WITH STRUCTURAL ENGINEER AND ARCHITECT FOR FURTHER GUIDANCE.
19. PROVIDE APPROVED CLAMPS, OFFSETS, EXPANSION JOINTS, ANCHORS AND GUIDES AS NECESSARY TO PREVENT STRESS ON PIPING.
20. PROVIDE VENTS AT HIGH POINTS IN PIPING SYSTEMS. WHERE APPLICABLE ADD DRAIN VALVES AT LOW POINTS.
21. VERIFY EXACT SIZES, LOCATIONS, INVERTS AND ELEVATIONS PRIOR TO RUNNING ANY PIPING. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS OF ALL FIXTURES AND EQUIPMENT.

PLUMBING SYMBOL LIST

NOTE: NOT ALL SYMBOLS ARE USED

SYMBOL	DESCRIPTION
	EXISTING PIPING TO REMAIN
	EXISTING PIPING TO BE REMOVED
	SANITARY PIPE ABOVE FLOOR/SLAB (S)
	SANITARY PIPE BELOW FLOOR/SLAB (S)
	FATS, OILS, GREASE SANITARY PIPE ABOVE FLOOR/SLAB (S)
	FATS, OILS, GREASE SANITARY PIPE BELOW FLOOR/SLAB (S)
	STORM WATER PIPE ABOVE FLOOR/SLAB (ST)
	STORM WATER PIPE BELOW FLOOR/SLAB (ST)
	STORM WATER OVERFLOW PIPE ABOVE FLOOR/SLAB (OF)
	STORM WATER OVERFLOW PIPE BELOW FLOOR/SLAB (OF)
	VENT PIPE (V)
	EXISTING COLD WATER PIPING
	EXISTING HOT WATER PIPING
	EXISTING HOT WATER RETURN PIPING
	COLD WATER PIPING (CW)
	HOT WATER PIPING (HW)
	HOT WATER RETURN PIPING (HWR)
	HEAT TRACE (HT)
	COLD WATER PIPING UNDER GROUND(CW)
	UNDER GROUND DOMESTIC WATER PRE-INSULATED PEX PIPING
	GAS PIPING
IW	INDIRECT WASTE PIPING
TP	TRAP PRIMER PIPING
	DIRECTION OF FLOW
	PIPE RISE OR UP THRU SLAB
	PIPE DROP OR DOWN THRU SLAB
	BOTTOM OF PIPE TAKE-OFF CONNECTION
	TOP OF PIPE TAKE-OFF CONNECTION
	P-TRAP
	CAP PIPE OUTLET
	CLEANOUT (CO)
	UNION
	VALVE IN RISE / VERTICAL
	POINT OF NEW CONNECTION
	FLOOR DRAIN
	BALL VALVE
	COLD WATER SUPPLY SHUT OFF VALVE
	GAS SHUT OFF VALVE
AV-1	AIR ADMITTANCE VALVE
	PULSATION DAMPER
	CHECK VALVE
	MIXING VALVE
HB-1	HOSE BIBB
S	SOLENOID VALVE
	STRAINER
	PRESSURE RELIEF VALVE
	AQUASTAT

— PLAN NUMBER
P-XX — TRADE & SHEET NUMBER

PLUMBING ABBREVIATION LIST

SYMBOL	DESCRIPTION
AFF	ABOVE FINISHED FLOOR
ADA	HANDICAPPED ACCESSIBLE
CO	CLEANOUT
CV	CHECK VALVE
CW	COLD WATER
CLG	CEILING
CONN	CONNECT
CONT	CONTINUATION
DN	DOWN (PENETRATES FLOOR SLAB)
DR	DRAIN
DPCO	DECK PLATE CLEANOUT
DWG	DRAWING
EX	EXISTING
EL	ELEVATION
EW2	ELECTRIC WATER COOLER – HANDICAPPED ACCESSIBLE
F1 or F2	FLOOR DRAIN
FL	FLOOR
F.O.G.	FATS, OILS, GREASE SANITARY
HWR	HOT WATER RECIRCULATION
IW	INDIRECT WASTE
L1 or L2	LAVATORY
LV	LAVATORIES
MIN	MINIMUM
MTD	MOUNTED
NTS	NOT TO SCALE
OF	STORM WATER OVERFLOW
OFD	STORM WATER OVERFLOW DRAIN
S	SANITARY
ST	STORM WATER
SK	SINK
RD	ROOF DRAIN
TYP	TYPICAL
UP	UP (PENETRATES FLOOR SLAB)
U1 or U2	URINAL
V or VNT	VENT
VTR	VENT THROUGH ROOF
VIF	VERIFY IN FIELD
W	WASTE
W1, W2, or W3	WATER CLOSET
WCO	WALL CLEANOUT
WH	WATER HEATER

WATER HEATER SCHEDULE

DESIGNATION	NO. REQUIRED	MANUFACTURER AND MODEL NUMBER	ASME VESSEL REQUIRED	STORAGE WATER TEMPERATURE (DEG.F)	VOLUME/HEATER (GALS.)	RECOVERY/HEATER (GPH)	TEMPERATURE RISE (DEG.F)	MAXIMUM WATER FLOW (G.P.M.)	W.W.P. (PSIG.)	TEST PRESSURE (PSIG.)	DIAMETER (INCHES)	LENGTH/HEIGHT (INCHES)	GAS		ELECTRIC			REMARKS
													CONNECTION	INPUT MBH	ELECTRIC LOAD (AMPERES)	PHASE	VOLTAGE	
HWH-1	1	A.O. SMITH BDH-150(A)	YES	140°	100	178	100	–	150	160	28	77	3/4"	150	5.0	1	120	PROVIDE 6" PAD AND PRV PIPING SHALL BE 6" AFF. INSTALL CONDENSATE NEUTRALIZER BY MFG MODEL 100289339

PLUMBING FIXTURE SCHEDULE

FIXTURE NO.	DESCRIPTION			SERVICE CONNECTION						REMARKS
	FIXTURE	MANUFACTURER	MODEL NO.	S	W	V	CW	HW	NO. UNITS	
WC-1	WATER CLOSET	AMERICAN STANDARD	#2856.128	4"		2"	1"		7	ONE-PIECE ADA COMPLIANT HEIGHT WHITE
	SEAT	AMERICAN STANDARD	#5905.100							
	FLUSHOMETER	SLOAN	#ROYAL 111							FLUSH VOLUME 1.28 GPF (MAX)
	FIXTURE SUPPORT	JAY R. SMITH	#0211RY							
UR-1	URINAL	AMERICAN STANDARD	PINTBROOK	2"		1½"	½"		2	
	FLUSHOMETER	SLOAN	#186							FLUSH VOLUME 0.5 GPF (MAX)
LAV-1	LAVATORY	AMERICAN STANDARD	LUCERNE #0355.012	2"		1½"	½"	½"	7	WHITE WITH FAUCET HOLES ON 4" CENTERS
	FAUCET	ZURN	#Z6915-XL							FAUCET WITH P6900-MV
	- - -	- - -	- - -							TRUEBRO LAB SHIELD 2018-AS-L1
										INSTALL MV-2 MIXING VALVE. SEE SCHEDULE FOR DETAILS
MS-1	JANITOR'S SINK	ACORN: TERRAZZO-WARE	#TRH-362406-BDS	3"		1½"	½"	½"	1	OPTIONS TO INCLUDE. BDS: DOME STRAINER KBGS: 36" BUMPER GUARD KH36: 36" HOSE KMH: MOP HANGER
	FAUCET	AMERICAN STANDARD	#8345.115							
WF-1	WATER FOUNTAIN	ELKAY	#LZO8WSSK	1½"		1¼"	½"		1	STAINLESS STEEL ADA COMPLIANT PROVIDE ½" TO ⅜" REDUCER W/ UNPLATED COPPER TUBE POWER INSTALLED PER NFPA-70
	OPTIONS TO INCLUDE	ELKAY	#51300C (FILTER), #LKAPREZL (APRON), #MLP100 (CARRIER), #98551C (COVER)							
WF-2	WATER FOUNTAIN	ELKAY	#LZOOTL8WSSK	1½"		1¼"	½"		1	STAINLESS STEEL ADA COMPLIANT PROVIDE ½" TO ⅜" REDUCER W/ UNPLATED COPPER TUBE POWER INSTALLED PER NFPA-70
	OPTIONS TO INCLUDE	ELKAY	#51300C (FILTER), #LKAPREZL (APRON), #MLP200 (CARRIER), #98551C (COVER)							

KITCHEN EQUIPMENT SCHEDULE

ITEM NO	EQUIPMENT CATEGORY	QTY	HOT WATER SIZE (IN)	COLD WATER SIZE (IN)	DIRECT DRAIN SIZE (IN)	INDIR DRAIN SIZE (IN)	GAS SIZE (IN)	MBTUH	MANUFACTURER	MODEL NUMBER	EQUIPMENT REMARKS
5	REFRIGERATION TO ITEM #4	1							RDT POLARCRAFT	PCL035ZCT3A	COMPRESSOR UNIT
						3/4				BEL0130	EVAPORATOR COILS UNIT
11	REFRIGERATION TO ITEM #10	1							RDT POLARCRAFT	BEL0095	COMPRESSOR UNIT
						3/4					EVAPORATOR COILS UNIT
13	HAND SINK, WALL MNTD.	1	1/2	1/2	1-1/2				IMC/TEDDY	WS-1D	
15	HOSE REEL WITH GUN	1	1/2	1/2					T&S BRASS	B-7132-05	
16	EYE WASH STATION, WALL MNTD.	1	1/2	1/2	1-1/4				GUARDIAN	G1750P	
17	FILTER SYSTEM FOR ITEM #19/20	1		1/2					3M PURIFICATION	SGLP200-CL-BP	
19	OVEN-STEAMER, COMBI, GAS	1		3/4		2	3/4	106.5	RATIONAL	ICP-6 FULL NG	C.W. PIPED FROM ITEM #17
				3/4							
20	OVEN-STEAMER, COMBI, GAS	1		3/4		2	3/4	106.5	RATIONAL	ICP-6 FULL NG	C.W. PIPED FROM ITEM #17
				3/4							
22	OVEN, CONVECTION, GAS	1					3/4	120	GARLAND	MCO-GS-20-ESS	
23	FLOOR TROUGH	1			4				IMC/TEDDY	FT-2430-SG	
24	KETTLE, STEAM JACKETED	1	1/2	1/2			3/4	140	CLEVELAND RANGE	KGL-40-T	
25	RANGE, HEAVY DUTY, GAS	1					3/4	184	GARLAND	MST44R-E	
31	ADA HAND SINK, WALL MNTD.	1	1/2	1/2	1-1/2				IMC/TEDDY	ADA-WS-1D	
32	3-COMPARTMENT SINK, POTWASH	1	1/2	1/2		1-1/2			IMC/TEDDY	SCS-34-2028-24RL	
						1-1/2					
						1-1/2					
36	DOOR-TYPE WAREWASHER, VENTLESS	1		3/4		1			CHAMPION INDUSTRIES	DH6000T-VHR	
				1/2							DRAIN TEMPERING KIT
40	ADA WORK TABLE W/ SINK	1	1/2	1/2		1-1/2			IMC/TEDDY	CUSTOM	
43	WORK TABLE W/ SINK	1	1/2	1/2		1-1/2			IMC/TEDDY	CUSTOM	
48	2-COMPARTMENT, PREP. TABLE	1	1/2	1/2		1-1/2			IMC/TEDDY	CUSTOM	
						1-1/2					
57	HAND SINK, BUILT-IN	1	1/2	1/2		1-1/2			IMC/TEDDY	CUSTOM	
60	HOT FOOD COUNTER	2				1			LTI	SIM-TW-4-60	
64	COLD FOOD COUNTER	2				1			LTI	SIM-TA-60	

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LICENSE EXP. DATE: 03-31-2026

S.E.D. CONTROL NUMBER:
48-06-01-06-0-001-026

PROJECT TITLE
BREWSTER CENTRAL SCHOOL DISTRICT
C.V. STARR INTERMEDIATE SCHOOL
CAFETORIUM ADDITION/INTERIOR RENOVATIONS AND RELOCATIONS
20 FARM TO MARKET ROAD BREWSTER, NY 10509

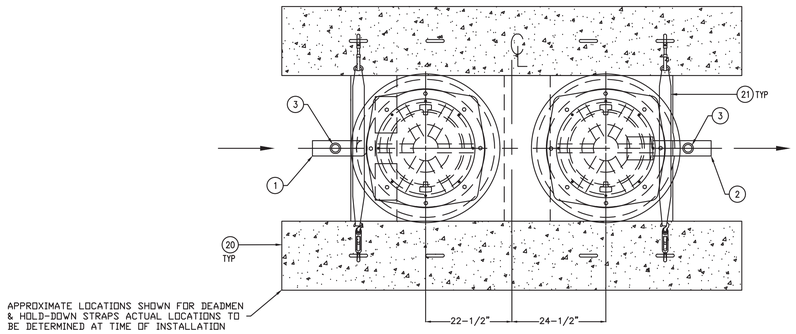
DRAWING TITLE
PLUMBING NOTES, SCHEDULES & LEGEND

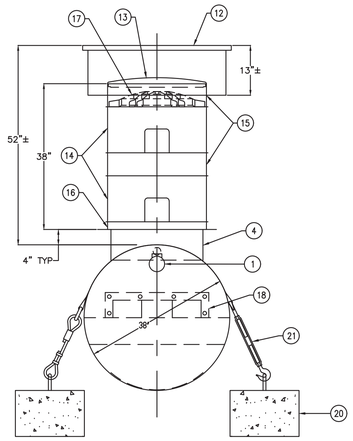
DATE	ISSUED TO
12-09-2024	BID
09-25-2024	ADDENDUM 1
03-05-2024	SED SUBMISSION
11-29-2023	D.D. SUBMISSION
08-31-2023	S.D. SUBMISSION

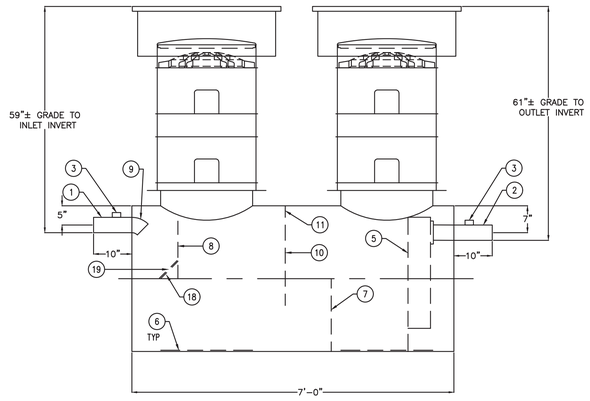
SHEET SIZE 30"x42" | DRAWING NO. CVS P001
SCALE AS NOTED
DRAWN BY LFG | FILE NO. 23505.02

PLOT DATE: December 02, 2024 - 9:52am

FILE: N:\Brewster Central Schools\2023 Capital Projects\CV Starr Intermediate School\PACKAGE 2 – Cafetorium\ACAD\Plumbing\CVS PKG2_P-001_P-002.dwg







GENERAL SPECIFICATIONS

QUANTITY: ONE (1)
MODEL: HM-100-93
FLOW RATE: 100 GPM
LIQUID CAPACITY: 350 GALLONS
TYPE: SINGLE WALL, HIGHGUARD, UNDERGROUND
MATERIAL: 7 GA CARBON STEEL.
MATERIAL BASED ON 60" MAXIMUM BURIAL DEPTH
LAP FIT AND WELD INTERIOR AND EXTERIOR SEAMS
TANK TEST: 3-5 PSI AIR TEST
SURFACE PREP: SSPC-SP 10 BLAST INTERIOR SURFACES
SSPC-SP 6 BLAST EXTERIOR SURFACES
EXT. COATING: HIGHGUARD POLYURETHANE - 75 MILS
INT. COATING: CHEMLINE 4200 PW (15 MILS DFT)
OPERATING PRESSURE: ATMOSPHERIC
NOTE: OPTIONAL 2" VENTS ON MANWAY RISERS AT THE DISCRETION OF THE OWNER

PROVIDED EQUIPMENT

1. 4"ø SCH 40 PIPE STUB – INLET
2. 4"ø SCH 40 PIPE STUB – OUTLET
3. 2" HC – VENT
4. 24"ø MANWAY FOR STACKABLE RISER
5. STEEL OUTLET DOWNCOMER BAFFLE WITH OPEN TOP
6. STRIKER PLATE
7. SLUDGE BAFFLE – 7 GA
8. UNDERFLOW BAFFLE – 7 GA
9. 4"ø 45° DIFFUSION ELBOW WITH WELDED INTERNAL 100 GPM FLOW CONTROL
10. GREASE DAM – 7 GA
11. 2" OPENING FOR AIR CIRCULATION
12. 36"ø GRADE-LEVEL MANWAY – SHIPPED LOOSE
13. 24"ø PVC COVER
14. (2) 24"ø x 12" STACKABLE RISER – ALL STACKABLE RISER COMPONENTS ARE PRE-ASSEMBLED AND COMPLETE MANWAY RISER IS SHIPPED LOOSE
15. (2) 24"ø x 6" STACKABLE RISER
16. STACKABLE RISER ADAPTER RING & GASKET
17. STACKABLE RISER SAFETY SCREEN
18. REMOVABLE DIFFUSION PLATE – 7 GA
19. 6-1/2" x 8" WEAR PLATE – 1/4"
20. (2) CDA-15 CONCRETE DEADMAN
21. (2) POLYESTER HOLD-DOWN STRAPS

NOTE:
ALL RIGHTS RESERVED. THIS DRAWING, OR ANY PART THEREOF, MUST NOT BE REPRODUCED IN ANY FORM WITHOUT WRITTEN PERMISSION FROM HIGHLAND TANK. UNLESS OTHERWISE NOTED, HIGHLAND TANK SHALL BE RESPONSIBLE ONLY FOR ITEMS INDICATED ON THIS FABRICATION DRAWING. THE CUSTOMER IS RESPONSIBLE FOR VERIFYING THE CORRECTNESS OF THE TYPE, SIZE, AND LOCATION OF ALL FITTINGS, ACCESSORIES, AND COATINGS SHOWN ON THIS DRAWING.

Highland Tank®

HYDRO-MECHANICAL GREASE INTERCEPTOR
100 GPM

CUSTOMER: BREWSTER SCHOOL DISTRICT

PROJECT: 20 FARM TO MARKET RD, BREWSTER, NY

QUOTE NO.: ORDER:

SCALE:	DATE:	ENG. BY:	ENG. NO.:
NTS	7/9/20	MCS	HM-100-93

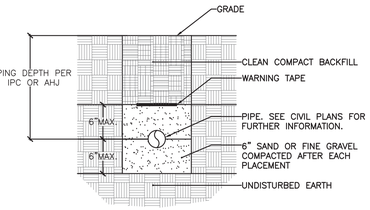
DIMENSION TOLERANCE: ± 1"

GENERAL NOTES:
ALL BACKFILL SAND AND FINE GRAVEL SHALL BE CLEAN AND FREE OF ROCK, CONSTRUCTION MATERIAL, DEBRIS, ETC. TO MINIMIZE DAMAGE OF BURIED PIPING.

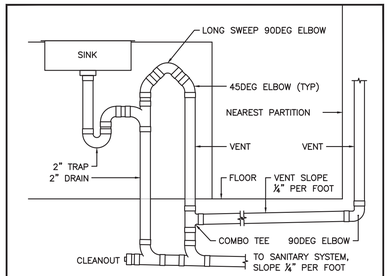
ALL BACKFILL SHALL BE COMPACT AND UNIFORM PRIOR TO INSTALLATION OF PIPING TO SUPPORT AND PREVENT UNEVEN LOADING THROUGHOUT.

CONTRACTOR SHALL INSTALL ALL PIPING MATERIALS PER LATEST INTERNATIONAL PLUMBING CODE AND AHJ.

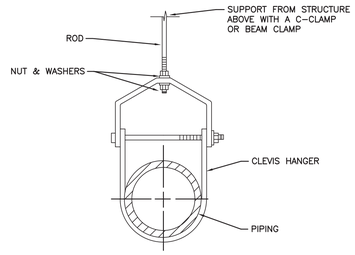
WATER MAIN MINIMUM DEPTH 56" BELOW GRADE. (IPC; SECTION 305.4)
SEE CIVIL PLANS FOR ALL OTHER PIPING DEPTHS.



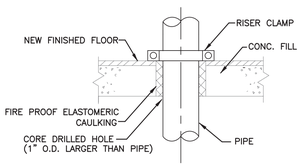
TRENCH DETAIL
NO SCALE



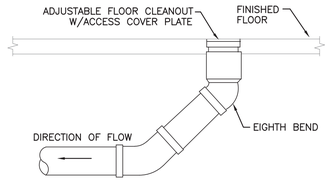
ISLAND SINK VENT
NO SCALE



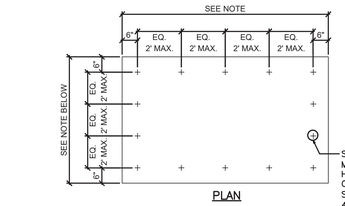
TYPICAL PIPE HANGER
NO SCALE



FLOOR PENETRATION
NO SCALE

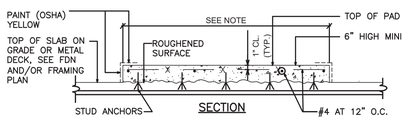


FLOOR CLEANOUT
NO SCALE



PLAN

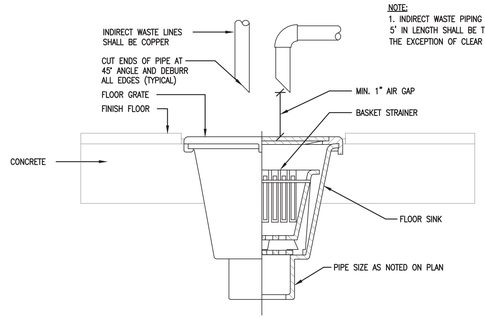
STUD ANCHORS JS-58H AS MANUF. BY ITW RAMSET/RED HEAD, WOOD DALE, ILLINOIS OR APPROVED EQUAL, SPACED AS INDICATED (MIN. 4 STUDS PER PAD)



SECTION

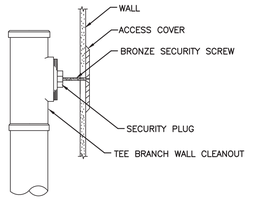
NOTES:
1. CONCRETE SHALL BE 3,500 PSI.
2. PAINT VERTICAL EDGE AND 4" OF PAD YELLOW.
3. FINAL SIZE AND LOCATION TO BE DETERMINED BY CONTRACTOR AND APPROVED BY ENGINEER
4. CONCRETE EQUIPMENT PAD TO BE FURNISHED AND INSTALLED BY PLUMBING CONTRACTOR.

CONCRETE PAD DETAIL
NO SCALE

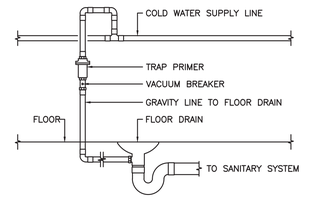


NOTE:
1. INDIRECT WASTE PIPING EXCEEDING 5' IN LENGTH SHALL BE TRAPPED WITH THE EXCEPTION OF CLEAR WATER WASTES.

FLOOR SINK DETAIL
NO SCALE



WALL CLEANOUT
NO SCALE



NOTES:
1. INSTALL TRAP PRIMER PER MANUFACTURER'S SPECIFICATION AND LOCAL CODE REQUIREMENTS.
2. VERIFY PRESSURE TEST AND CHECK TUBING FOR ANY LEAKS.
3. TRAP PRIMER BY PPP INC., MODEL PR-500 OR BY JR SMITH MODEL 2694.

TRAP PRIMER DETAIL
NO SCALE

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252 East Avenue
Norwalk, CT 06855
(203) 866-6660 Tel
(203) 866-8019 Fax

LICENSE EXP. DATE: 03-31-2026

S.E.D. CONTROL NUMBER:
48-06-01-06-0-001-026

PROJECT TITLE:
BREWSTER CENTRAL SCHOOL DISTRICT
C.V. STARR INTERMEDIATE SCHOOL
CAFETORIUM ADDITION, INTERIOR RENOVATIONS AND SITE WORK
20 FARM TO MARKET ROAD BREWSTER, NY 10509

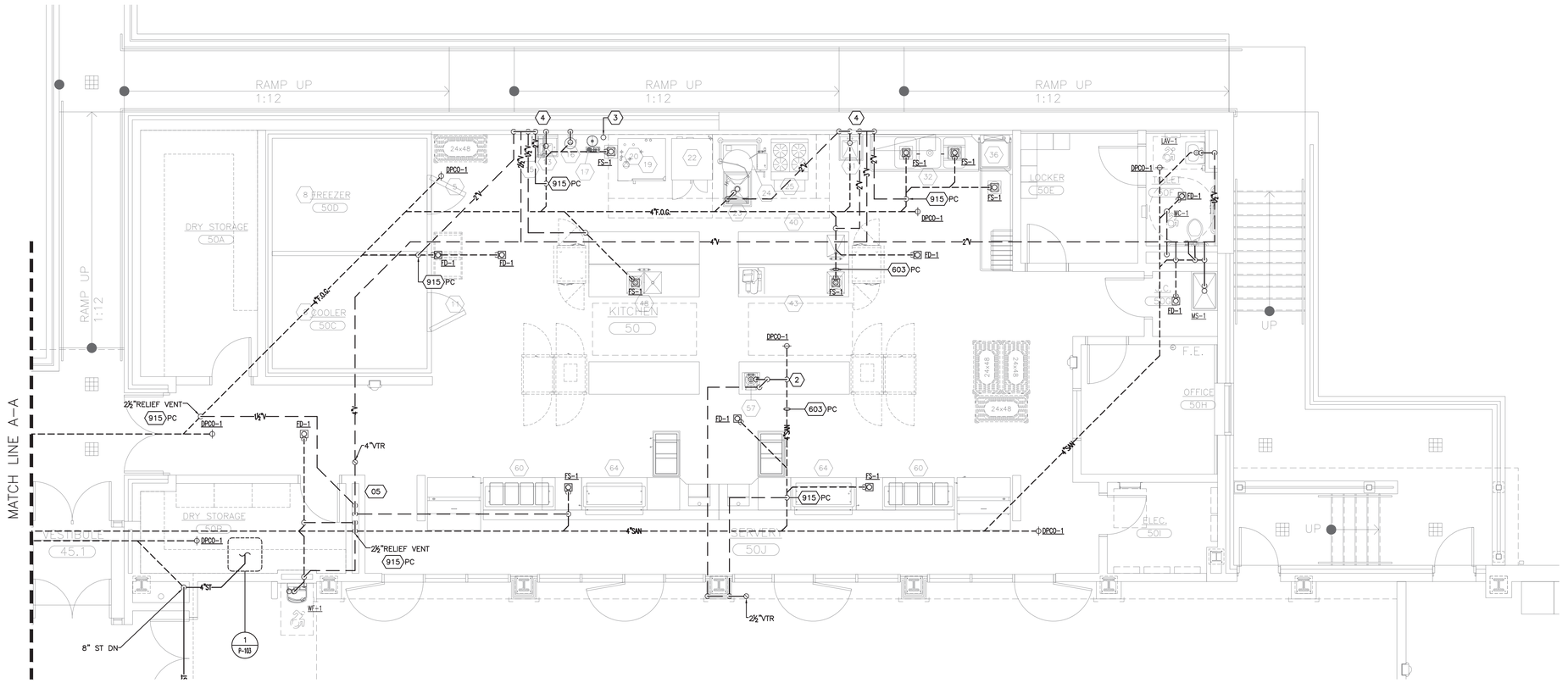
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PLUMBING DETAILS

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09-25-2024	ADDENDUM 1
03-05-2024	SED SUBMISSION
11-29-2023	D.D. SUBMISSION
08-31-2023	S.D. SUBMISSION

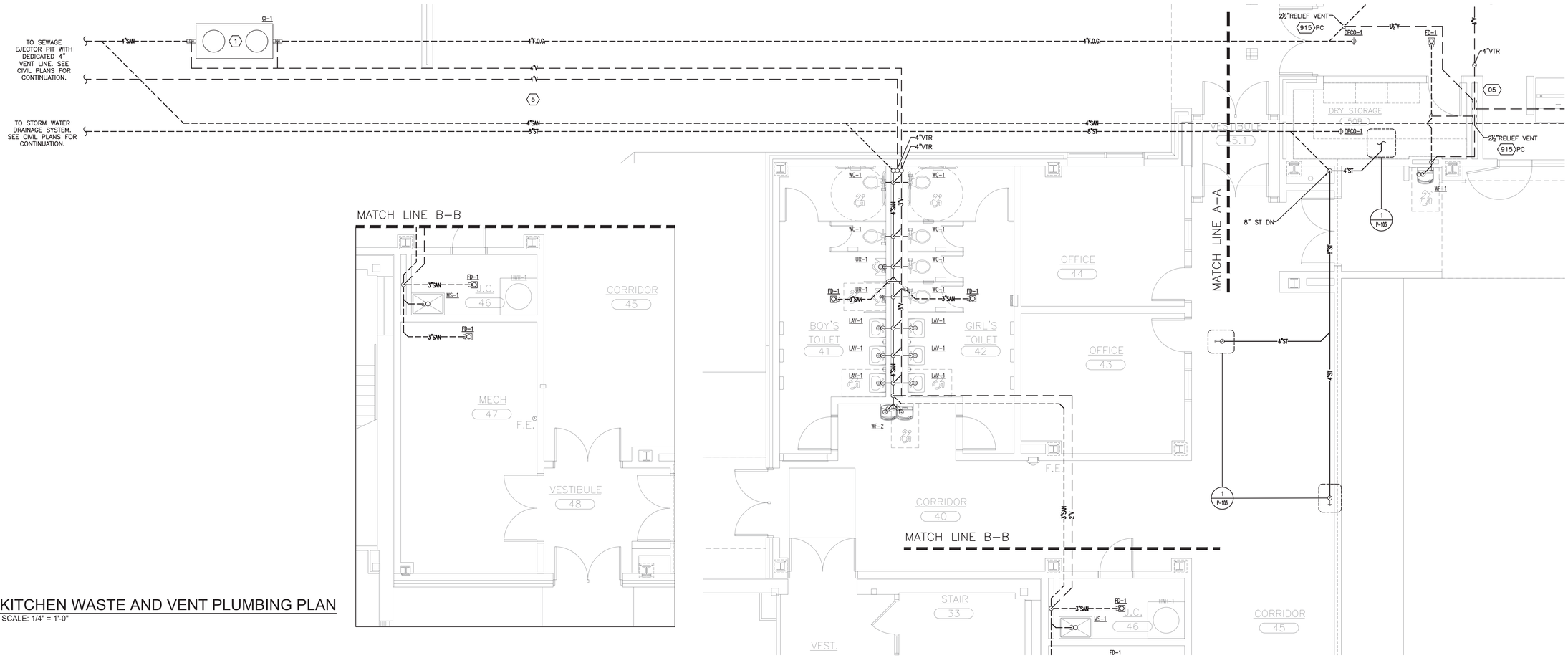
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DRAWN BY: LFG
FILE NO.: 23505.02

PLOT DATE: December 02, 2024 - 9:52am

FILE: N:\Brewster Central Schools\2023 Capital Projects\CV Starr Intermediate School\PACKAGE 2 – Cafetorium\ACAD\Plumbing\CVS PKG2_P-001_P-002.dwg



1 KITCHEN WASTE AND VENT PLUMBING PLAN
SCALE: 1/4" = 1'-0"



2 KITCHEN WASTE AND VENT PLUMBING PLAN
SCALE: 1/4" = 1'-0"

NOTES

1. PROVIDE AND INSTALL A GREASE INTERCEPTOR (GREASE TRAP) WITH VISIBLE SIGNAGE AND MEANS OF ACCESS AS PER PLUMBING CODE 1003, AND AHJ. SEE CIVIL SITE PLAN FOR EXACT LOCATION OF GREASE INTERCEPTOR (GI–1) AND COORDINATE ELEVATIONS WITH GENERAL CONTRACTOR.
2. SEE ISLAND SINK VENT DETAIL FOR FURTHER INFORMATION.
3. GREASE DRAIN TO NEAREST FLOOR SINK TIED UP TO TYPE 1 HOOD GREASE DISCHARGE OUTLET (OUTSIDE OF DUCTWORK). FINAL LOCATION TO BE DETERMINED IN FIELD WITH MECHANICAL CONTRACTOR.
4. FURRED OUT WALLS FOR VERTICAL PIPING DROPS.
5. BELOW GRADE VENT LINES SHALL BE PITCHED TO GREASE INTERCEPTOR AND SUMP PUMP.

GENERAL NOTE

REFER TO RISER DIAGRAM FOR PIPE SIZING AND FURTHER INFORMATION.

PLUMBING KEY NOTES

- PC 502 GAS FIRED WATER HEATER(S) SHALL NOT BE INSTALLED IN A SPACE CONTAINING AIR–HANDLING MACHINERY WHERE THE ROOM IS USED AS A PLENUM.
- PC 504 FURNISH ANTISIPHON, VACUUM RELIEF, GAS AND RELIEF VALVES SAFETY DEVICES FOR EACH HOT WATER HEATER AND INSTALL PER MANUFACTURERS RECOMMENDATIONS.
- PC 603 PROVIDE DOMESTIC WATER LINE ABOVE SANITARY WITH A MINIMUM 12" SEPARATION BETWEEN BOTTOM OF DOMESTIC WATER LINES TO TOP OF SANITARY LINE. WATER LINES INSTALLED HORIZONTALLY ON THE SAME PLANE AS THE SANITARY SHALL MAINTAIN A 5'–0" DISTANCE BETWEEN PIPING.
- PC 605 PRE–INSULATED CLASS A PEX PIPING BELOW SLAB WITH NO JOINTS.
- PC 607 HOT WATER RECIRCULATION AQUASTAT TEMPERATURE SET TO 105°F.
- PC 708 ALL FLOOR CLEANOUTS 6" OR LESS SHALL HAVE A MINIMUM 18" CLEARANCE FROM ANY NEIGHBORING PARTITIONS, OBSTRUCTIONS, ETC FOR FUTURE MAINTENANCE WITH MINIMUM LIVE LOAD OF 2 TON BRASS COVERS.
- PC 915 COMBINATION WASTE AND VENT SYSTEMS SHALL NOT RECEIVE DISCHARGE FROM FOOD WASTE DISPOSERS.

FUEL GAS KEY NOTES

- FGC 408 PROVIDE A SEDIMENT TRAP (DIRT LEG) AS PART OF THE APPLIANCE AS CLOSE TO THE APPLIANCE AS PRACTICAL.
- FGC 411 PROVIDE COMMERCIAL GAS HOSES BY DORMONT BLUE HOSE OR EQUAL. GAS CONNECTIONS TO APPLIANCES SHALL COMPLY WITH AN ANSI Z21.69/CSA 6.16 LISTING AND INSTALLED PER MANUFACTURER'S SPECIFICATION.
- FGC 505 FURNISH AND INSTALL A GAS SOLENOID VALVE TIED TO FIRE PROTECTION INTERLOCK SYSTEM. POWER BY ELECTRICAL CONTRACTOR.

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252 East Avenue
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LICENSE EXP. DATE: 03-31-2026

S.E.D. CONTROL NUMBER:
48-06-01-06-0-001-026

PROJECT TITLE
BREWSTER CENTRAL SCHOOL DISTRICT
CV- STARR INTERMEDIATE SCHOOL
CAFETORIUM ADDITION, INTERIOR RENOVATIONS & SITE IMPROVEMENTS
20 FARM TO MARKET ROAD BREWSTER, NY 10509

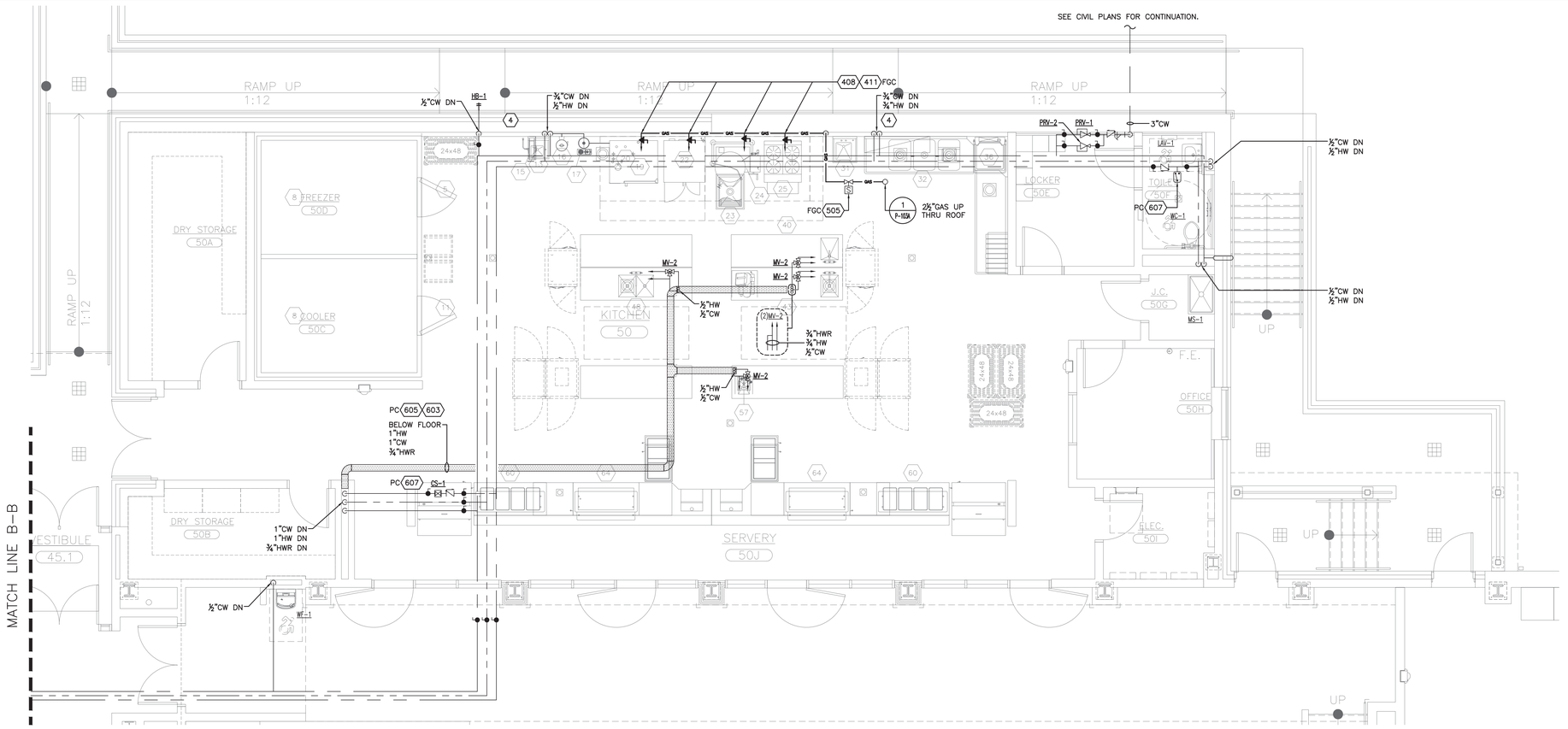
DRAWING TITLE
GROUND FLOOR
KITCHEN WASTE AND VENT PLUMBING PLAN

DATE	ISSUED TO
12-09-2024	BID
09-25-2024	ADDENDUM 1
03-05-2024	SED SUBMISSION
11-29-2023	D.D. SUBMISSION
08-31-2023	S.D. SUBMISSION

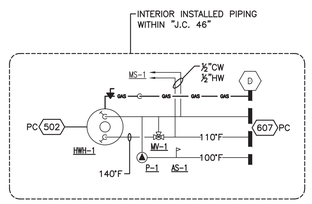
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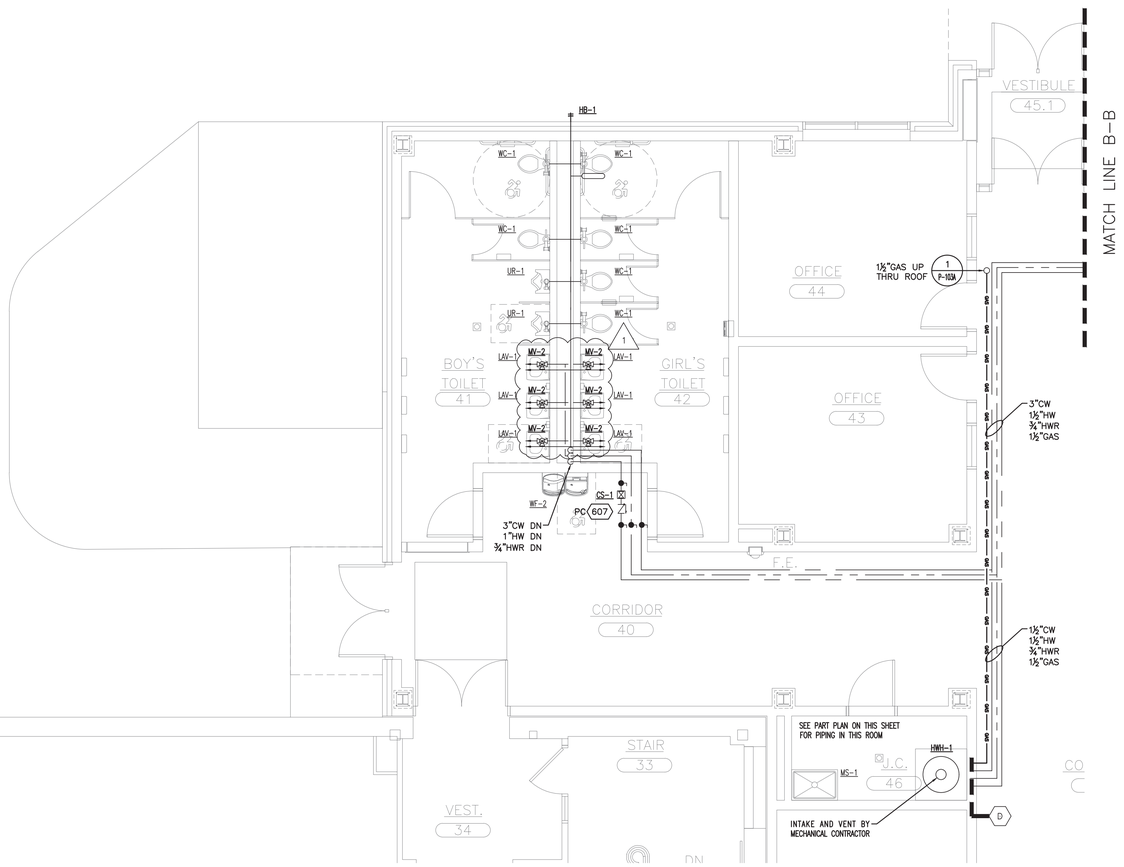
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1 KITCHEN HOT AND COLD WATER PLUMBING PLAN
SCALE: 1/4" = 1'-0"





2 KITCHEN HOT AND COLD WATER PLUMBING PLAN
SCALE: 1/4" = 1'-0"

NOTES

1. PROVIDE AND INSTALL A GREASE INTERCEPTOR (GREASE TRAP) WITH VISIBLE SIGNAGE AND MEANS OF ACCESS AS PER PLUMBING CODE 1003, AND AHJ. SEE CIVIL SITE PLAN FOR EXACT LOCATION OF GREASE INTERCEPTOR (GI-1) AND COORDINATE ELEVATIONS WITH GENERAL CONTRACTOR.
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3. GREASE DRAIN TO NEAREST FLOOR SINK TIED UP TO TYPE 1 HOOD GREASE DISCHARGE OUTLET (OUTSIDE OF DUCTWORK). FINAL LOCATION TO BE DETERMINED IN FIELD WITH MECHANICAL CONTRACTOR.
4. FURRED OUT WALLS FOR VERTICAL PIPING DROPS.
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GENERAL NOTE

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252 East Avenue
Norwalk, CT 06855
(203) 866-6644
(203) 866-8019 Fax

LICENSE EXP. DATE: 03-31-2026

S.E.D. CONTROL NUMBER:
48-05-01-06-0-001-026

PROJECT TITLE
BREWSTER CENTRAL SCHOOL DISTRICT
C.V. STARR INTERMEDIATE SCHOOL
CAFETORIUM ADDITION, INTERIOR RENOVATIONS & SITE IMPROVEMENTS
20 FARM TO MARKET ROAD BREWSTER, NY 10509

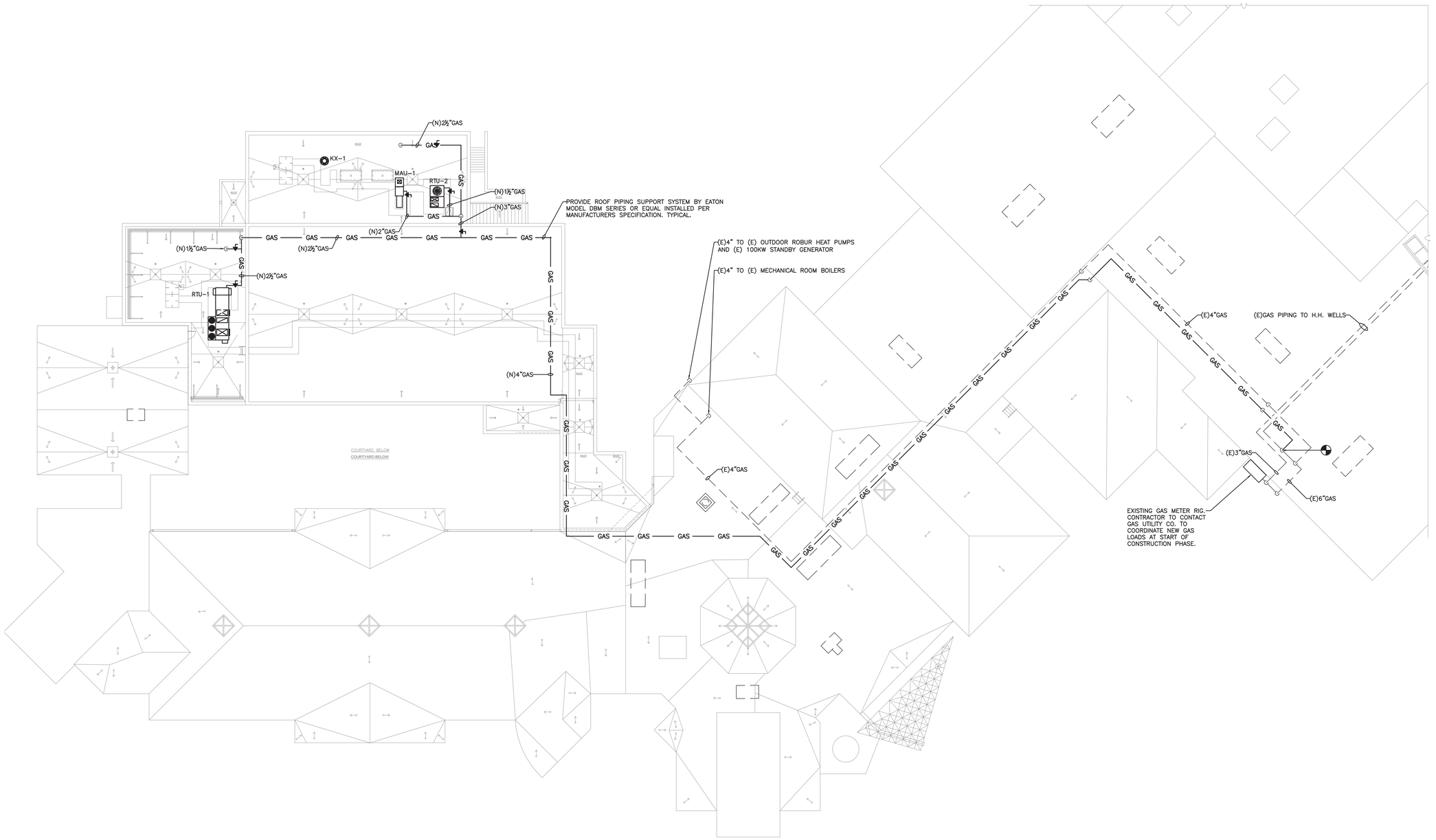
DRAWING TITLE
GROUND FLOOR
KITCHEN HOT AND COLD WATER PLUMBING PLAN

12-09-2024	BID
09-25-2024	ADDENDUM 1
03-05-2024	SED SUBMISSION
11-29-2023	D.D. SUBMISSION
08-31-2023	S.D. SUBMISSION
DATE	ISSUED TO

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DRAWN BY: LFG	FILE NO. 23505.02

PLOT DATE: December 02, 2024 - 9:54am

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1 ROOF PLUMBING PLAN - NATURAL GAS PIPING
SCALE: 1/16" = 1'-0"

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252 East Avenue
Norwalk, CT 06855
(203) 866-6600 Ext. 114
(203) 866-6019 Fax

LICENSE EXP. DATE: 03-31-2026

S.E.D. CONTROL NUMBER:
48-06-01-06-0-001-026

PROJECT TITLE:
BREWSTER CENTRAL SCHOOL DISTRICT
C.V. STARR INTERMEDIATE SCHOOL
CAFETORIUM ADDITION, INTERIOR RENOVATIONS AND SITE WORK
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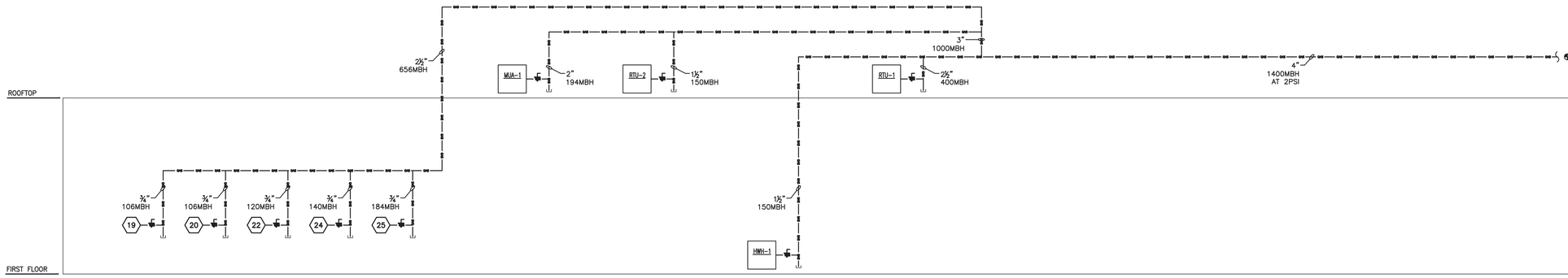
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ROOF PLUMBING PLAN
NATURAL GAS PIPING

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09-25-2024	ADDENDUM 1
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11-29-2023	D.D. SUBMISSION
08-31-2023	S.D. SUBMISSION

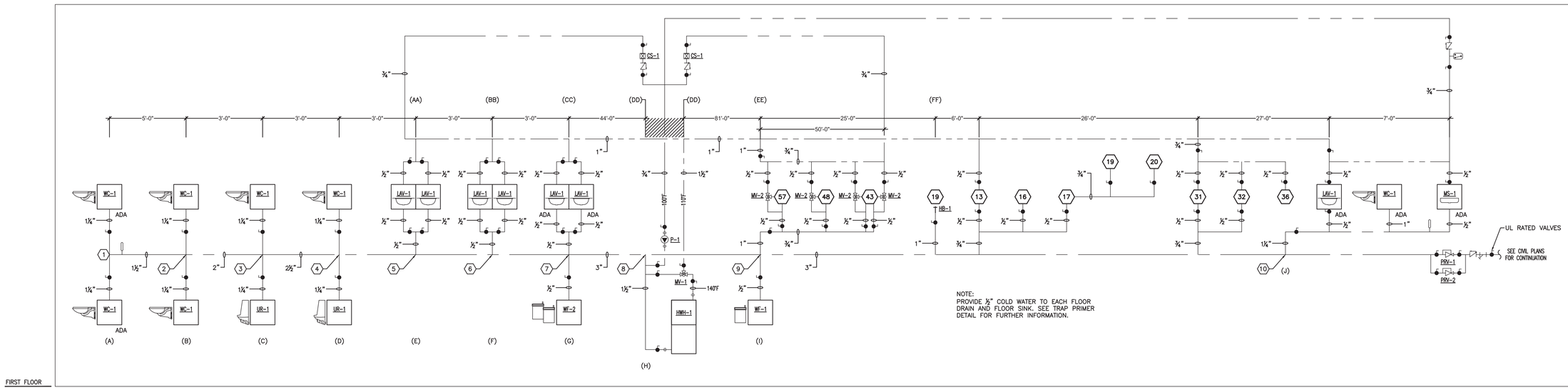
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DRAWN BY: LFG
FILE NO.: 23505.02

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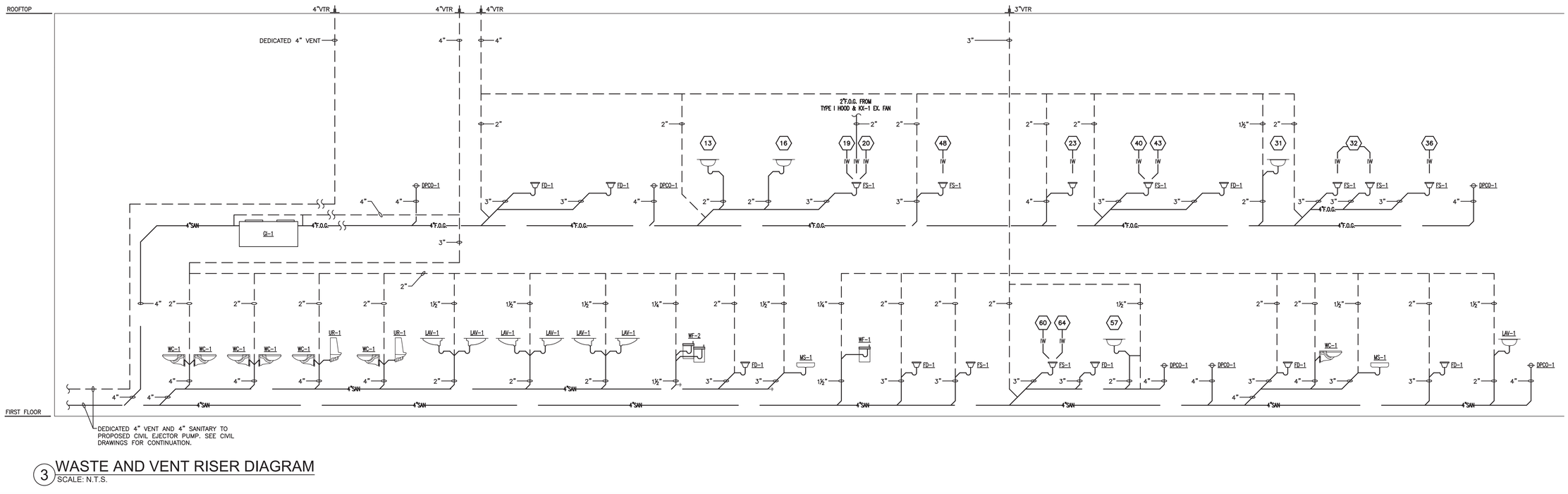
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1 GAS RISER DIAGRAM
SCALE: N.T.S.



2 HOT AND COLD WATER RISER DIAGRAM
SCALE: N.T.S.



3 WASTE AND VENT RISER DIAGRAM
SCALE: N.T.S.

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252 East Avenue Norwalk, CT 06855 (203) 866-6600 Tel (203) 866-8019 Fax

LICENSE EXP. DATE: 03-31-2026

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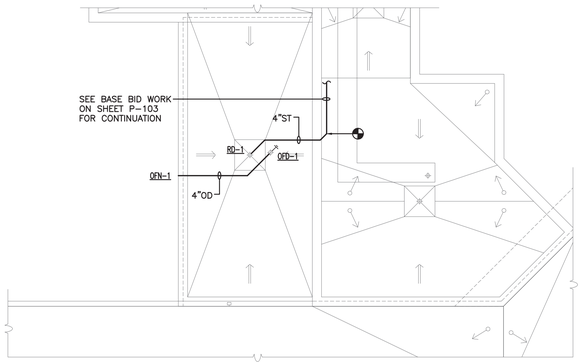
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BREWSTER CENTRAL SCHOOL DISTRICT
C.V. STARR INTERMEDIATE SCHOOL
CAFETORIUM ADDITION, INTERIOR RENOVATIONS AND SITE IMPROVEMENTS
237 FARM TO MARKET ROAD BREWSTER, NY 10509

DRAWING TITLE
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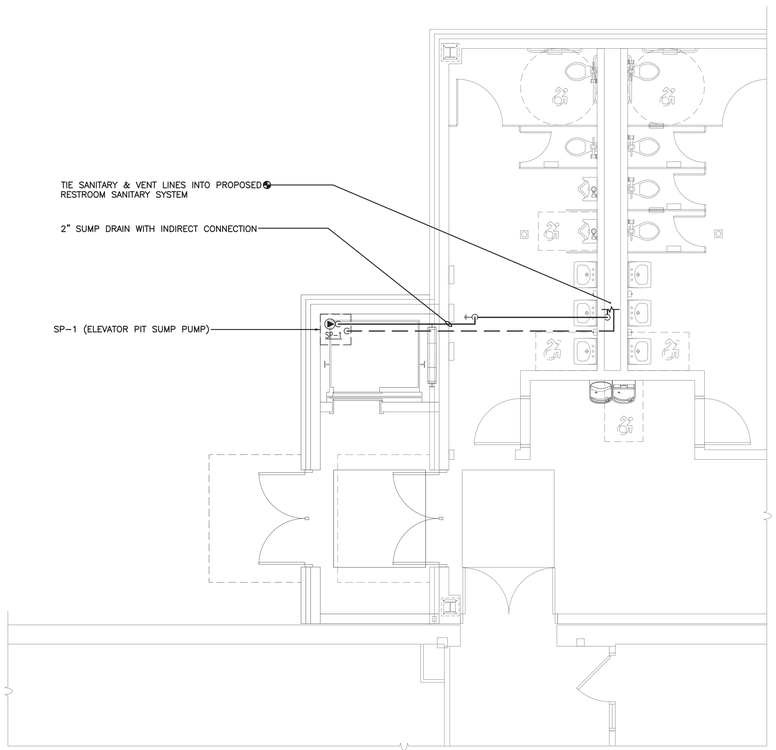
DATE	ISSUED TO
12-09-2024	BID
09-25-2024	ADDENDUM 1
03-05-2024	SED SUBMISSION
11-29-2023	D.D. SUBMISSION
08-31-2023	S.D. SUBMISSION

SHEET SIZE 30"x42"
DRAWING NO. CVS P200
SCALE AS NOTED
DRAWN BY LFG
FILE NO. 23505.02

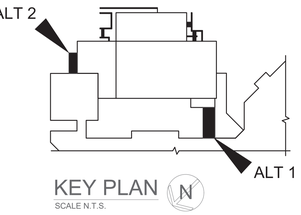
PLOT DATE: December 02, 2024 - 10:04am
FILE: N:\Brewster Central Schools\2023 Capital Projects\CV Starr Intermediate School\PACKAGE 2 - Cafetorium\ACAD\Plumbing\CVS PKG2_P-200.dwg



1 ROOF PLAN - ALT P-1
SCALE: 1/8" = 1'-0"



1 GROUND FLOOR PLAN - ALT P-2
SCALE: 1/4" = 1'-0"



KEY PLAN
SCALE N.T.S.

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LICENSE EXP. DATE: 03-31-2026

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PROJECT TITLE
BREWSTER CENTRAL SCHOOL DISTRICT
C.V. STARR INTERMEDIATE SCHOOL
CAFETORIUM ADDITION, INTERIOR RENOVATIONS & RELATED WORK
20 FARM TO MARKET ROAD BREWSTER, NY 10509

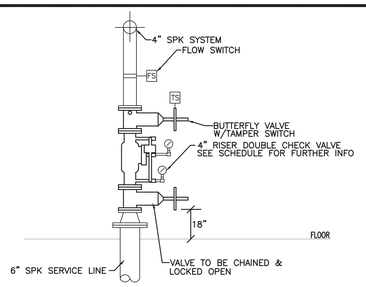
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PLUMBING ALTERNATE
FLOOR PLANS

DATE	ISSUED TO
12-09-2024	BID
09-25-2024	ADDENDUM 1
03-05-2024	SED SUBMISSION
11-29-2023	D.D. SUBMISSION
08-31-2023	S.D. SUBMISSION

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FILE NO.: 23505.02

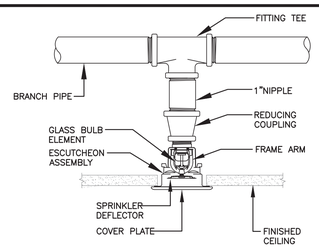
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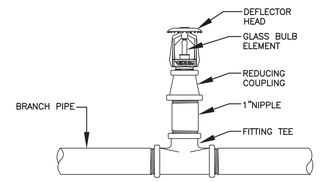
SPRINKLER ASSEMBLY

NO SCALE



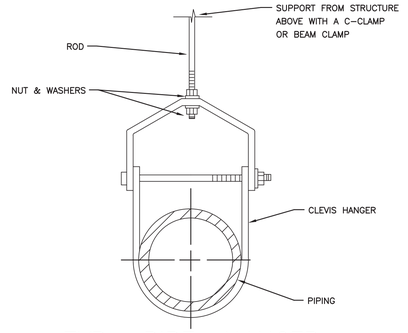
CONCEALED SPRINKLER HEAD DETAIL

NO SCALE



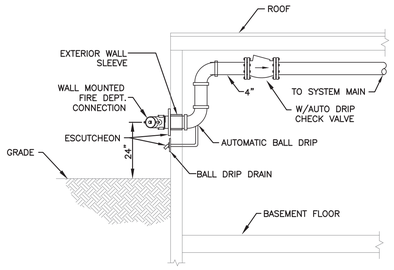
UPRIGHT SPRINKLER HEAD DETAIL

NO SCALE



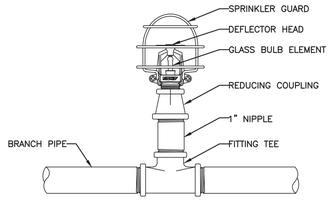
TYP. PIPE HANGER

NO SCALE



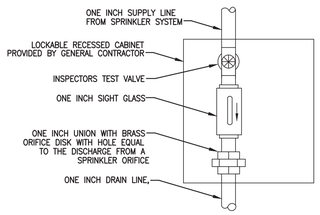
FIRE DEPARTMENT CONNECTION

NO SCALE



UPRIGHT SPRINKLER HEAD DETAIL W/SPRINKLER GUARD

NO SCALE



INSPECTORS TEST AND DRAIN STATION DETAIL

NO SCALE

SPRINKLER LEGEND

	DRAIN PIPING
SPK	WET SPRINKLER PIPING
	EXISTING PIPING TO REMAIN
	EXISTING PIPING TO BE REMOVED
	DIRECTION OF FLOW
	BOTTOM OF PIPE TAKE-OFF CONNECTION
	PIPE RISE OR UP THRU SLAB
	PIPE DROP OR DOWN THRU SLAB
	TOP OF PIPE TAKE-OFF CONNECTION
	NIPPLE & CAP AUXILIARY DRAIN
	PRESSURE GAUGE
	UNION
	TEST VALVE & DRAIN
	OUTSIDE SCREW & YOKE VALVE (OS&Y)
	CONCENTRIC REDUCER
	ECCENTRIC REDUCER
PRV	PRESSURE REDUCING VALVE
	OUTSIDE SCREW & YOKE (OS&Y) W/ TAMPER SWITCH
	CHECK VALVE
	HOSE VALVE
FS	FLOW SWITCH
TS	TAMPER SWITCH
	POINT OF NEW CONNECTION TO EXISTING
TYP	TYPICAL
EL	ELEVATION ABOVE FINISHED FLOOR
(W)	SPRINKLER NODE

FIRE PROTECTION EQUIPMENT

OS&Y GATE VALVE
2" AND LARGER: GRAY IRON BODY, THREADED ENDS; SOLID WEDGE, RISING STEM. MANUFACTURER: KENNEDY MODEL KS-FW

BFP1 – DOUBLE CHECK VALVE
BY WATTS MODEL#774DCDA OR EQUAL, TORSION SPRUNG CHECK VALVE, SS BODY, BRONZE METER (GPM OR CFM), UNDERWRITERS LABORATORIES APPROVED OSY SHUT-OFF VALVES, INSTALLED VERTICALLY AND PROVIDE A MINIMUM OF 24" BETWEEN EACH OS&Y VALVE TO ANY OBSTRUCTION.

FIRE DEPT. CONNECTION
UL LISTED, FM APPROVED. CASS BRASS BODY, CAST ROUND PLATE WITH DOUBLE FEMALE ADAPTER, PLUG AND CHAIN, BRANDING "AUTO SPKR", THREADS ACCORDING TO NFPA 1963 AND MATCHING LOCAL FIRE DEPARTMENT SIZES AND THREADS.
MANUFACTURER: CROKER MODEL #6405-PB

CHECK VALVES
SWING CHECK VALVES, 2 1/2" AND LARGER: CAST-IRON BODY, BRONZE SEAT, EPDM CLAPPER W/STAINLESS STEEL ARM AND GROOVED ENDS.
MANUFACTURER: RELIABLE MODEL: REL-50GG

BALL DRIP VALVES
AUTOMATIC DRAIN VALVE, 3/4", BALL CHECK DEVICE W/THREADED ENDS.
MANUFACTURER: VIKING MODEL: MODEL J-1

TAMPER SWITCHES
ELECTRIC SINGLE POLE, DOUBLE THROW WITH NORMALLY CLOSED CONTACTS, INCLUDE DESIGN THAT SIGNALS CONTROLLED VALVE IS IN OTHER THAN FULLY OPEN POSITION. MEA No. MANUFACTURER: SYSTEM SENSOR MODEL OSY2

SPRINKLER GUARD
WIRE-CAGE TYPE, INCLUDING FASTENING DEVICE FOR ATTACHING TO SPRINKLER. INSTALL PER MANUFACTURERS RECOMMENDATIONS. LOCATED AS NOTED ON DWGS.
MANUFACTURER: VIKING MODEL: D-1

FIRE BELL FB-1
ELECTRIC FIRE ALARM BELL 24 VOLTS
MANUFACTURER: POTTER ROEMER MODEL: 6230

FLOW SWITCH FS-1
VANE TYPE WATERFLOW ALARM SWITCH
MANUFACTURER: POTTER ROEMER MODEL: VSR-4

BUTTERFLY VALVE
2-1/2 AND LARGER: BRONZE, CAST-IRON, OR DUCTILE-IRON BODY; WAFER TYPE OR WITH FLANGED OR GROOVED ENDS.
MANUFACTURER: VIKING MODEL: BVG-7

PIPING AND MATERIALS SCHEDULE

PIPING SYSTEM	SIZE RANGE	PIPE MATERIALS	JOINTS	FITTINGS	INSULATION	SHUTOFF VALVES
WET PIPING	2" & SMALLER	STEEL, SCH 40, ASTM A53/A53M	THREADED	150# MALLEABLE-IRON	NA	NA
WET PIPING	2 1/2" & LARGER	STEEL, SCH 40, ASTM A53/A53M	GROOVED	VICTAULIC STYLE 77	NA	NA

NOTES:
REFER TO SPECIFICATIONS ON DRAWING FOR ADDITIONAL DETAILS

SPRINKLER HEAD LEGEND

SYM	DESCRIPTION	COVERAGE	METAL	TEMP	K. FACTOR	NPT	ORIF	MFG./OR EQUAL	MODEL#	CONN.	RESPONSE	COLOR	REMARKS
⊗	UPRIGHT STND. COV.	NFPA 13	BRASS	155°	5.6	1"	1/2"	VIKING	VK300	THREAD	QUICK	WHITE	1,2,3
⊙	CONCEALED PENDANT	NFPA 13	BRONZE	155°	5.6	1"	1/2"	VIKING	VK462	THREAD	QUICK	WHITE	1,2,3
●	PENDANT	NFPA 13	BRONZE	155°	5.6	1"	1/2"	VIKING	VK302	THREAD	QUICK	WHITE	1,2,3

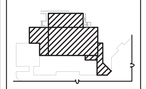
1. ALL SPRINKLER HEADS MODELS OR APPROVED EQUAL
2. ALL SPRINKLER HEADS ARE QUICK RESPONSE TYPE.
3. ALL SPRINKLER HEADS TO BE WHITE FINISH UNLESS NOTED OTHERWISE. SEE SCHEDULE FOR FURTHER INFORMATION.

SPRINKLER PIPE SIZING

1. BRANCH PIPE SIZING AS FOLLOWS:

1 SP. HEAD	1"
2 SP. HEAD	1"
3 SP. HEAD	1 1/4"
4 SP. HEAD	1 1/2"
5 SP. HEAD	1 1/2"
6 SP. HEAD	2"
|	|
10 SP. HEAD	2"
30 SP. HEAD	2 1/2"
60 SP. HEAD	3"

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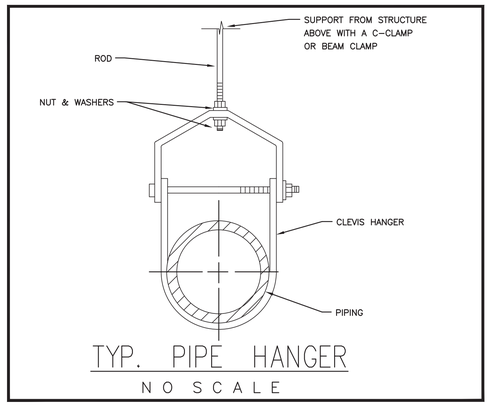
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FIRE PROTECTION DETAILS

DATE	ISSUED TO
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08-31-2023	S.D. SUBMISSION

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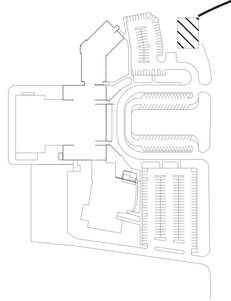
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FILE: N:\Brewster Central Schools\2023 Capital Projects\CV Starr Intermediate School\PACKAGE 2 - Cafetorium\ACAD\Fire Protection\CVS PKG2_FP-100_RN.dwg



TYP. PIPE HANGER

NO SCALE



KEY PLAN

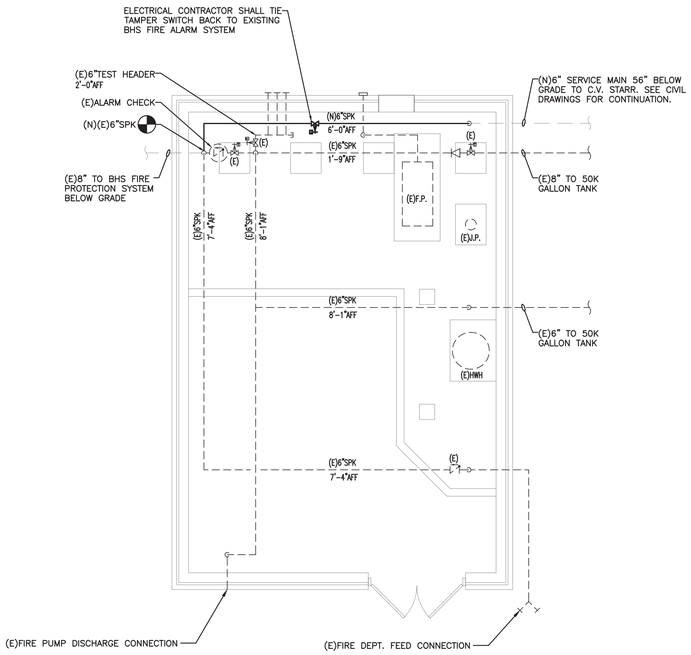
SCALE N. T. S.



SPRINKLER LEGEND

	DRAIN PIPING
SPK	WET SPRINKLER PIPING
	EXISTING PIPING TO REMAIN
	EXISTING PIPING TO BE REMOVED
	DIRECTION OF FLOW
	BOTTOM OF PIPE TAKE-OFF CONNECTION
C	PIPE RISE OR UP THRU SLAB
	PIPE DROP OR DOWN THRU SLAB
	TOP OF PIPE TAKE-OFF CONNECTION
E	NIPPLE & CAP AUXILIARY DRAIN
	PRESSURE GAUGE
	UNION
	TEST VALVE & DRAIN
	OUTSIDE SCREW & YOKE VALVE (OS&Y)
	CONCENTRIC REDUCER
	ECCENTRIC REDUCER
	PRESSURE REDUCING VALVE
	OUTSIDE SCREW & YOKE (OS&Y) W/ TAMPER SWITCH
	CHECK VALVE
	HOSE VALVE
FS	FLOW SWITCH
TS	TAMPER SWITCH
	POINT OF NEW CONNECTION TO EXISTING
TYP	TYPICAL
EL	ELEVATION ABOVE FINISHED FLOOR
SPR	SPRINKLER NODE

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FIRE PROTECTION NOTES

1. COOPERATE AND COORDINATE WITH ALL TRADES IN EXECUTION OF THE WORK DESCRIBED IN THIS SECTION AND SO AS TO PROVIDE CLEARANCE FOR EQUIPMENT MAINTENANCE AND OPERATION AND TO ENSURE THAT WORK IS CARRIED OUT IN THE BEST INTERESTS OF ALL CONCERNED. INSTALL WORK IN PROPER SEQUENCE TO CONSERVE HEADROOM AND SPACE.
2. BEFORE STARTING WORK OF THIS SECTION, VISIT SITE AND EXAMINE CONDITIONS UNDER WHICH WORK MUST BE PERFORMED INCLUDING PREPARATORY WORK DONE UNDER OTHER SECTIONS OR CONTRACTS OR BY OWNER. REPORT CONDITIONS THAT MIGHT AFFECT WORK ADVERSELY IN WRITING THROUGH CONTRACTOR TO ARCHITECT. DO NOT PROCEED WITH WORK UNTIL DEFECTS HAVE BEEN CORRECTED AND CONDITIONS ARE SATISFACTORY. COMMENCEMENT OF WORK SHALL BE CONSTRUED AS COMPLETE ACCEPTANCE OF EXISTING CONDITIONS AND PREPARATORY WORK.
3. AFTER VISIT TO SITE, CONTRACTOR SHALL STUDY BUILDING ARCHITECTURAL, STRUCTURAL, MECHANICAL, REFLECTED CEILING AND ELECTRICAL PLANS AND PREPARE "SPRINKLER WORKING DRAWINGS" IN CONFORMANCE WITH N.F.P.A., THE OWNER'S INSURANCE UNDERWRITER AND THE UNDERWRITER'S INTERPRETATION OF NFPA.
4. FULLY COORDINATE WITH OTHER TRADES AT NO ADDITIONAL COST TO THE OWNER, MAKE ALL REASONABLE CHANGES AND ADDITIONS TO LOCATION OF MATERIALS AND EQUIPMENT AND COORDINATION ISSUES, NECESSARY TO ACCOMMODATE THE STRUCTURAL AND ARCHITECTURAL CONDITIONS AND THE SYSTEMS. IT SHALL BE THE RESPONSIBILITY OF THE SPRINKLER CONTRACTOR TO COORDINATE WITH ALL OTHER TRADES AND PARTIES TO AVOID CONFLICTS. NO ADDITIONAL CHARGES WILL BE APPROVED DUE TO LACK OF COORDINATION.
5. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE BUILDING CODE AND REFERENCE STANDARD, NFPA, THE LOCAL FIRE PREVENTION DEPARTMENT, THE INSURANCE UNDERWRITER AND ALL LOCAL CODES AND ORDINANCES.
6. INDICATION ON THE DRAWINGS OF EQUIPMENT, MATERIALS, OPERATION AND METHODS, REQUIRES THAT SUCH ITEMS SHALL BE OF THE QUANTITY REQUIRED, AND THE SYSTEMS COMPLETE IN EVERY RESPECT.
7. INSTALL EQUIPMENT IN STRICT ACCORDANCE WITH MANUFACTURER'S WRITTEN RECOMMENDATIONS.
8. INSTALL EQUIPMENT AND MATERIALS TO PRESENT A NEAT APPEARANCE. RUN PIPING PARALLEL WITH OR PERPENDICULAR TO BUILDING PLANES.
9. EQUIPMENT, MATERIALS AND WORK SHALL COMPLY WITH THE REQUIREMENTS OF GENERALLY RECOGNIZED AGENCIES, AND SHALL CONFORM TO AND BE INSTALLED IN STRICT ACCORDANCE WITH FEDERAL, STATE AND CITY REQUIREMENTS AND SHALL MEET ALL OF THE REQUIREMENTS OF ALL AUTHORITIES HAVING JURISDICTION.
10. THE CONTRACT DRAWINGS ARE APPROXIMATELY CORRECT TO SCALE, BUT FIGURED DIMENSIONS AND DETAILED DRAWINGS ARE TO BE FOLLOWED IN EVERY CASE. THE DRAWING SHALL BE TAKEN IN A SENSE AS DIAGRAMMATIC. GENERAL METHOD OF RUNNING PIPING IS SHOWN, BUT IT IS NOT INTENDED TO SHOW EVERY OFFSET AND FITTING NOR EVERY STRUCTURAL DIFFICULTY THAT MAY BE ENCOUNTERED. OBTAIN ALL INFORMATION REQUIRING DIMENSIONS FROM ARCHITECTURAL AND STRUCTURAL DRAWINGS AND FROM SITE MEASUREMENTS.
11. REFER TO ARCHITECTURAL DRAWINGS FOR FIRE RATINGS OF WALLS AND SLABS. THIS CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR SEALING ALL SPRINKLER PENETRATIONS TO MAINTAIN THE REQUIRED FIRE RATINGS.
12. PRIOR TO SUBMISSION OF SHOP DRAWINGS, THE SPRINKLER CONTRACTOR SHALL THOROUGHLY CHECK EACH SHOP DRAWING TO ASCERTAIN THAT IT COMPLIES WITH THE CONTRACT REQUIREMENTS AND THAT THE DIMENSIONS OF WORK SUBMITTED FIT THE AVAILABLE SPACE. ANY DEVIATIONS FROM THE CONTRACT REQUIREMENTS SHALL BE CLEARLY NOTED ON THE SHOP DRAWINGS. THE SPRINKLER CONTRACTOR SHALL STAMP EACH SUBMITTAL WITH HIS FIRM'S NAME, DATE AND APPROVAL, THEREBY REPRESENTING THAT THE ABOVE HAS BEEN COMPLIED WITH. SHOP DRAWINGS NOT SO CHECKED AND STAMPED SHALL BE RETURNED WITHOUT BEING EXAMINED BY THE ARCHITECT. REVIEW OF THE SHOP DRAWINGS SHALL NOT RELIEVE THE SPRINKLER CONTRACTOR FROM THE RESPONSIBILITY FOR DEPARTURES FROM THE CONTRACT DOCUMENTS. ERRORS IN SHOP DRAWINGS SHALL BE THE SOLE RESPONSIBILITY OF THE SPRINKLER CONTRACTOR WHETHER THE DRAWINGS ARE REVIEWED OR NOT.
13. PIPING FOR THE SPRINKLER SYSTEMS IS GENERALLY NOT ALL SHOWN. SOME PIPING MAY BE INDICATED TO SUGGEST METHODS OF AVOIDING INTERFERENCES, ETC.
14. ONLY UL APPROVED AND NFPA LISTED EQUIPMENT SHALL BE USED.
15. THE CONTRACTOR IS TO REVIEW AND VERIFY ALL FIELD CONDITIONS, MEASUREMENTS, PLANS AND STOCK LISTS, PRIOR TO ORDERING FABRICATION AND INSTALLING.
16. CONTRACTOR IS TO REPORT CONDITIONS REQUIRING CHANGES FROM PLANS TO THE ENGINEER PRIOR TO STARTING WORK.
17. HANGERS ARE TO BE IN ACCORDANCE WITH NFPA 13. EARTHQUAKE BRACING TO BE PROVIDED WHERE REQUIRED.
18. ALL WORK SHALL BE APPROVED BY AUTHORITIES HAVING JURISDICTION.
19. CONTRACTOR'S MATERIAL AND TEST CERTIFICATES FOR ABOVE GROUND AND UNDER GROUND PIPE SHALL BE SUBMITTED TO THE FIRE MARSHAL PRIOR TO APPROVAL OF THE INSTALLATION.
20. PIPE HANGERS SHALL BE INSTALLED AS REQUIRED BY NFPA FOR SUPPORTING FIRE SERVICE MAIN PIPING. NO OTHER PIPING AND/OR DEVICES ARE TO BE ATTACHED TO THE SPRINKLER PIPE HANGER SYSTEM UNLESS THE HANGER HAS BEEN SPECIFICALLY DESIGNED FOR THE ADDITIONAL LOADING. THIS CONTRACT DOES NOT INCLUDE ANY MATERIAL OR DEVICE TO IMPROVE THE STRUCTURAL STRENGTH OF THE BUILDING TO ENABLE IT TO CARRY THE LOAD OF THE FIRE PROTECTION SYSTEM.
21. SPRINKLER SYSTEM SHALL BE TESTED AS PER NFPA.

1 PUMPHOUSE FIRE PROTECTION PLAN

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

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PROJECT TITLE
BREWSTER CENTRAL SCHOOL DISTRICT
BREWSTER HIGH SCHOOL FIRE PUMP HOUSE
50 FOGGINTOWN ROAD BREWSTER, NY 10509

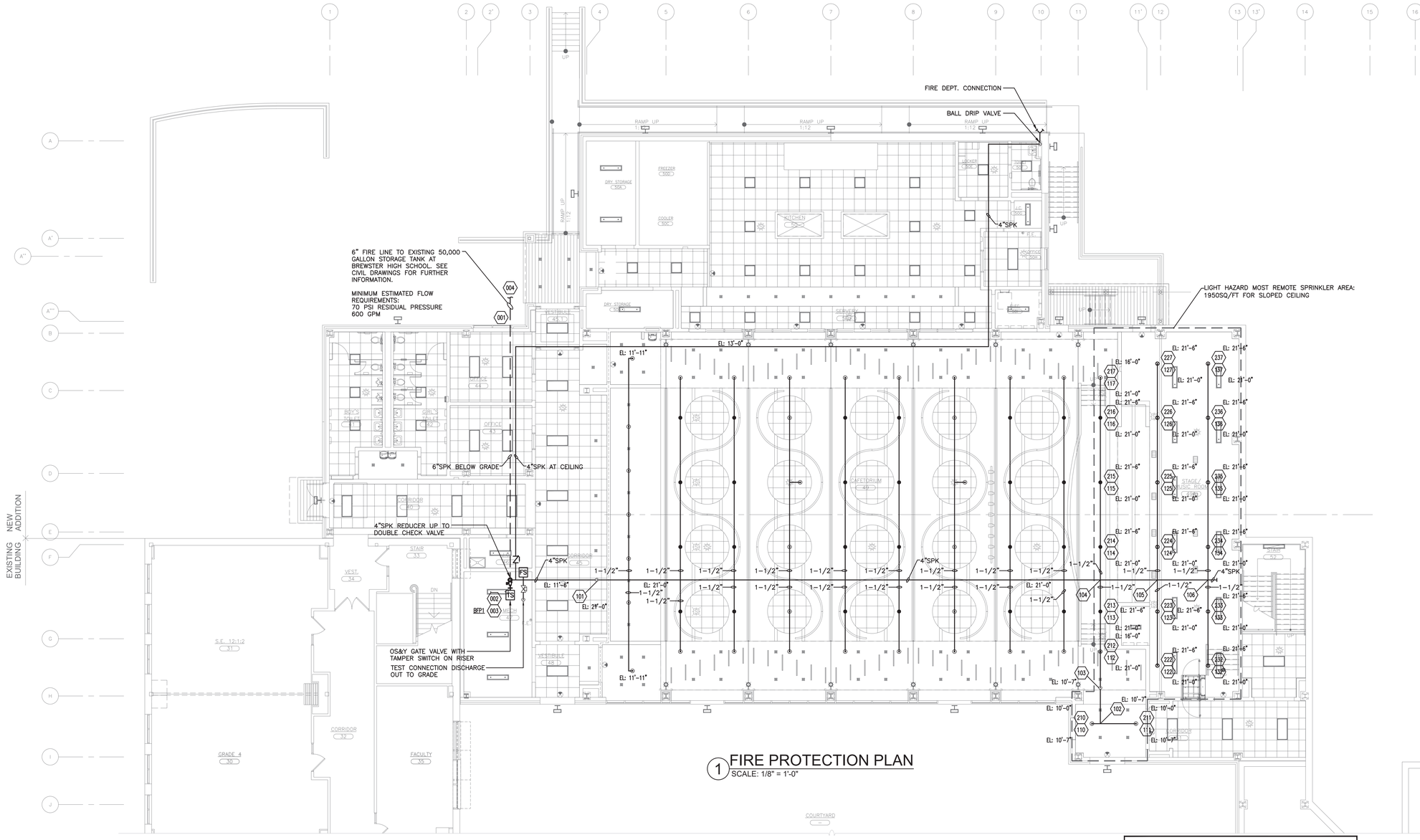
DRAWING TITLE
FIRE PROTECTION PLAN, DETAILS AND NOTES

DATE	ISSUED TO
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SHEET SIZE: 30"x42"	DRAWING NO.: CVS FP002
SCALE: AS NOTED	
DRAWN BY: LFG	FILE NO.: 23505.02

PLOT DATE: December 02, 2024 - 7:50pm

FILE: N:\Brewster Central Schools\2023 Capital Projects\CV Starr Intermediate School\PACKAGE 2 - Cafetorium\ACAD\Fire Protection\BHS Remote Pumphouse\BHS_CVS PKG2_FP-100_RN.dwg



1 FIRE PROTECTION PLAN
SCALE: 1/8" = 1'-0"

SPRINKLER LEGEND

	DRAIN PIPING
SPK	WET SPRINKLER PIPING
	EXISTING PIPING TO REMAIN
	EXISTING PIPING TO BE REMOVED
	DIRECTION OF FLOW
	BOTTOM OF PIPE TAKE-OFF CONNECTION
	PIPE RISE OR UP THRU SLAB
	PIPE DROP OR DOWN THRU SLAB
	TOP OF PIPE TAKE-OFF CONNECTION
	NIPPLE & CAP AUXILIARY DRAIN
	PRESSURE GAUGE
	UNION
	TEST VALVE & DRAIN
	OUTSIDE SCREW & YOKE VALVE (OS&Y)
	CONCENTRIC REDUCER
	ECCENTRIC REDUCER
	PRESSURE REDUCING VALVE
	OUTSIDE SCREW & YOKE (OS&Y) W/ TAMPER SWITCH
	CHECK VALVE
	HOSE VALVE
	FLOW SWITCH
	TAMPER SWITCH
	POINT OF NEW CONNECTION TO EXISTING
TYP	TYPICAL
EL	ELEVATION ABOVE FINISHED FLOOR
	SPRINKLER NODE

NOTES:

1. CONTACT AND COORDINATE WITH THE BUILDING SUPERVISOR TO SCHEDULE SCOPE OF WORK AREAS. CONTRACTOR SHALL REVIEW FIELD CONDITIONS AND ASSESS ALL MATERIALS, EQUIPMENT, CLEARANCES, ETC REQUIRED TO PROVIDE A SAFE AND FUNCTIONAL SYSTEM PER LOCAL AND GOVERNING CODES.
2. CONTRACTOR TO ADJUST ALL NEW SPRINKLER HEADS TO MATCH THE PROPOSED CEILING HEIGHTS. INSTALL SPRINKLER HEADS PER MANUFACTURER RECOMMENDATION, LISTING, AND NFPA-13 STANDARDS.
3. THE CONTRACTOR SHALL BE RESPONSIBLE TO INSPECT AND TEST THE INSTALLATION OF THEIR WORK IN ACCORDANCE WITH CHAPTER 25 BEFORE SCHEDULING INSPECTION.
4. REFER TO BRANCH PIPE SCHEDULE ON SHEET FP-001.

CODED REQUIREMENTS:

2016 NPFA-13:

SECTION 6.1.2 RECONDITIONED SPRINKLERS ON A NEW AND/OR EXISTING SYSTEM SHALL NOT BE USED.

SECTION 6.2.1.1 EXISTING SPRINKLER HEADS REMOVED FROM A FITTING OR WELDED OUTLET SHALL NOT BE REINSTALLED.

SECTION 8.1 THE SPRINKLER SYSTEM CONSISTING OF, BUT NOT LIMITED TO, PIPING, SPRINKLER HEADS, SYSTEM ATTACHMENTS, ETC. SHALL BE INSTALLED AS PER THIS SECTION.

SECTION 8.3.3.2 WHERE QUICK-RESPONSE SPRINKLERS ARE TO BE INSTALLED OR EXISTING TO REMAIN WITHIN A COMPARTMENT, THERE SHALL BE LISTED QUICK-RESPONSE SPRINKLERS THROUGHOUT THE ENTIRE COMPARTMENT.

SECTION 8.5.6.1 A MINIMUM 18" CLEARANCE SHALL BE PROVIDED BETWEEN SPRINKLER HEAD AND TOP OF STORAGE OR CONTENTS.

SECTION 25.2 A NEW SPRINKLER SYSTEM SHALL BE ISOLATED AND TESTED PER REQUIREMENTS OF THIS SECTION.

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KEY PLAN

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Norwalk, CT 06855
(203) 866-6440 Tel
(203) 866-8019 Fax

LICENSE EXP. DATE: 03-31-2026

S.E.D. CONTROL NUMBER:
48-06-01-06-0-001-026

PROJECT TITLE
BREWSTER CENTRAL SCHOOL DISTRICT
C.V. STARR INTERMEDIATE SCHOOL
CAFETORIUM ADDITION INTERIOR
RENOVATIONS AS A RESILIENCE HUB
20 FARM TO MARKET ROAD BREWSTER, NY 10509

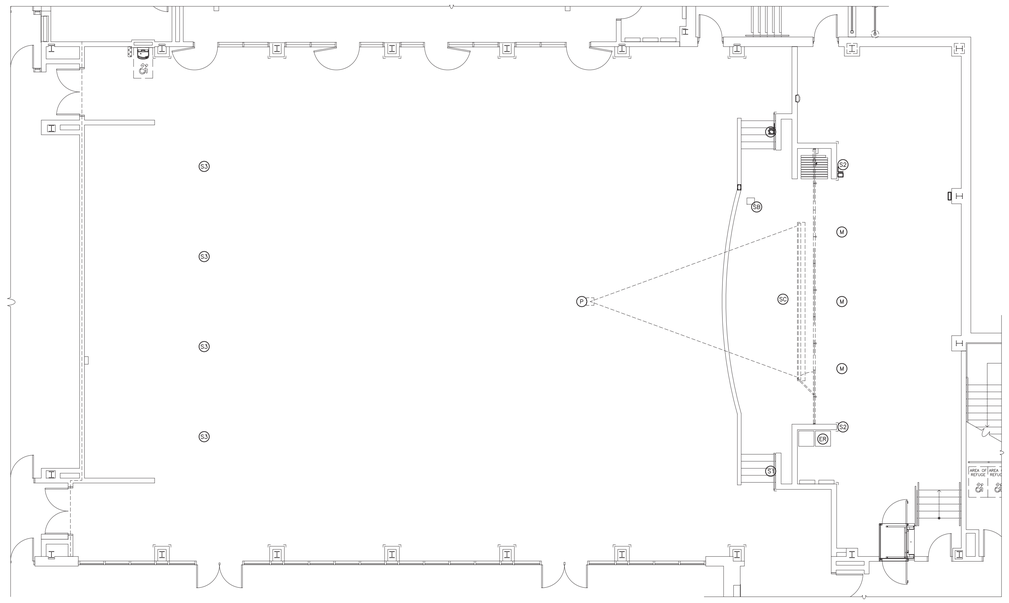
DRAWING TITLE
GROUND FLOOR
FIRE PROTECTION PLAN

DATE	ISSUED TO
12-09-2024	BID
09-25-2024	ADDENDUM 1
03-05-2024	SED SUBMISSION
11-29-2023	D.D. SUBMISSION
08-31-2023	S.D. SUBMISSION

SHEET SIZE 30"x42"
DRAWING NO. CVS FP100
SCALE AS NOTED
DRAWN BY LFG
FILE NO. 23505.02

PLOT DATE: December 02, 2024 - 10:31am

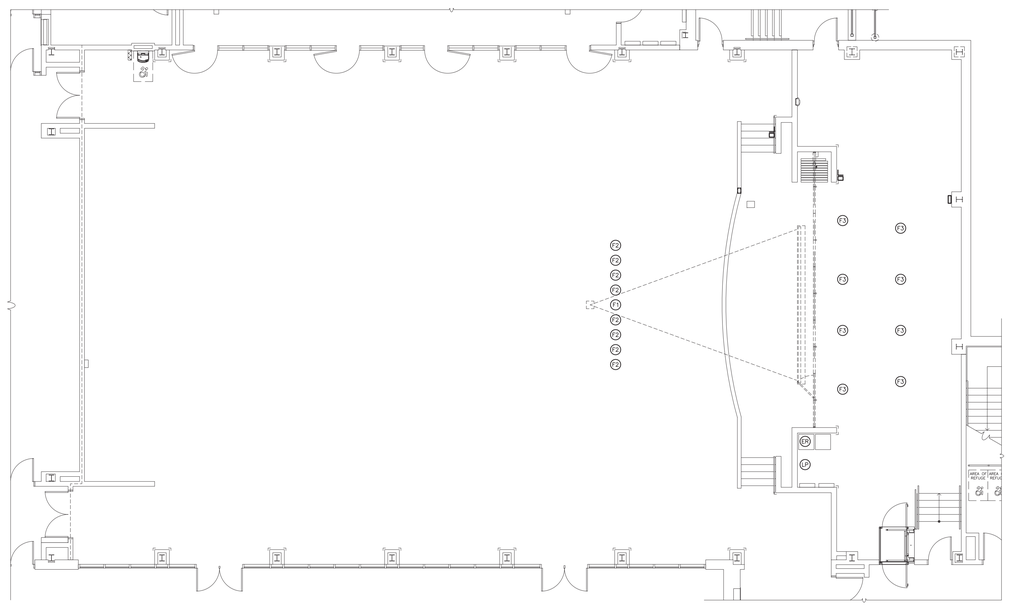
FILE: N:\Brewster Central Schools\2023 Capital Projects\CV Starr Intermediate School\PACKAGE 2 - Cafetorium\ACAD\Fire Protection\CVS PKG2_FP-100_RN.dwg



1 CAFETORIUM AV PLAN
SCALE: 1/8" = 1'-0"

AV LEGEND

- (P) PROJECTOR, LENS 27' FROM SCREEN
- (SC) PROJECTION SCREEN, RETRACTABLE
- (S1) SPEAKER, APOGEE AFI-4W
- (S2) SPEAKER, APOGEE AFI-2
- (SB) STAGE FLOOR BOX
- (M) HANGING MICROPHONE
- (FR) EQUIPMENT RACK, A/V



2 CAFETORIUM STAGE LIGHTING PLAN
SCALE: 1/8" = 1'-0"

LIGHTING LEGEND

- (F1) OVATIONE 260 For GOBO
- (F2) COLORADO 2 SOLO
- (F3) COLORADO SOLO BATTEN 4
- (LP) LIGHTING PRESET WALL PLATE
- (FR) EQUIPMENT RACK, LIGHTING

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LICENSE EXP. DATE: 03-31-2025

S.E.D. CONTROL NUMBER:
48-06-01-06-0-001-026

PROJECT TITLE
REWSTER CENTRAL SCHOOL DISTRICT
C.V. STARR INTERMEDIATE SCHOOL
CAFETORIUM ADDITION, INTERIOR
RENOVATIONS AND SITE WORK
20 FARM TO MARKET ROAD BREWSTER, NY 10509

DRAWING TITLE
CAFETORIUM AV PLAN, AUDITORIUM
STAGE LIGHTING PLAN

DATE	ISSUED TO
12-09-2024	BID
03-05-2024	SED SUBMISSION
11-29-2023	D.D. SUBMISSION
08-31-2023	S.D. SUBMISSION

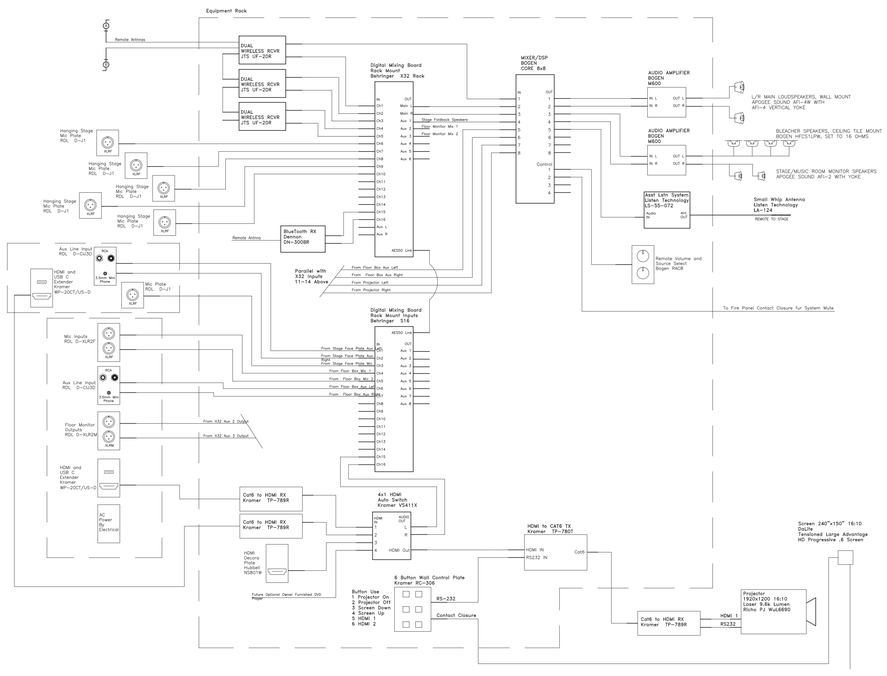
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DRAWING NO. CVS AV100
SCALE AS NOTED
DRAWN BY
FILE NO. 23505.02

PLOT DATE: December 05, 2024 - 9:29am

FILE: I:\23505.02 CVS Cafetorium & Existing Cafeteria Conversion\DRAWINGS\CURRENT\1-F&D\CVS AV100.dwg

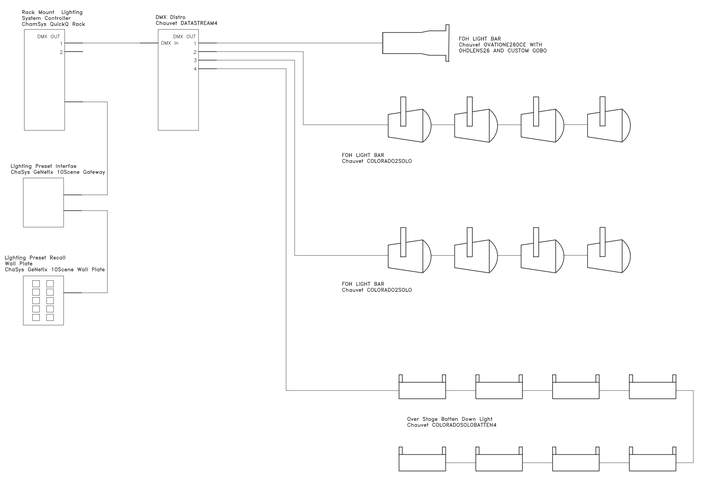
Qty	Item	Manufacturer	Notes
1	OVATIONE260CW	Chauvet	GOBO ELIPSOIDAL ENGIN
1	OHDLENS26	Chauvet	ELOPSOIDAL 26 DEGREE LENS
1	OVBGOBOGLASS	Chauvet	GOBO HOLDER
1	OBVGOBOMETAL	Chauvet	GOBO HOLDER
8	COLORADO25OLO	Chauvet	FOH Light Bar Fixtures
8	COLORADOSOLOBATTEN4	Chauvet	Stage Overhead Down Lighting
25	SC08	Chauvet	Safety Cables
25	CLP05	Chauvet	Fixture C-Clamp
12	DMX5P5FT	Chauvet	5 Foot DMX Cable
8	DMX5P10FT	Chauvet	10 Foot DMX Cable
6	DMX5P25FT	Chauvet	25 Foot DMX Cable
1	DATASTREAM4	Chauvet	DMX 4x Splitter
1	QuickQ Rack	ChamSys	Rack Mount Lighting Controller
1	GeNetix 10Scene Wall Plate	ChamSys	Lighting Scene Preste Wall Plate
1	GeNetix 10Scene Gateway	ChamSys	Wall Plate Intface
1	ipad with Lighting Software	ChamSys	Lighting Control Software, Interfaced for QuickQ Rack
1	Custom GOBO with School Logo	Chauvet	

CV STARR CAFETORIUM AV



1 CAFETORIUM AV LINE DRAWING
NOT TO SCALE

CV STARR CAFETORIUM STAGE LIGHTING



2 CAFETORIUM STAGE LIGHTING LINE DRAWING
NOT TO SCALE

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S.E.D. CONTROL NUMBER:
48-06-01-06-0-001-026

PROJECT TITLE
BREWSTER CENTRAL SCHOOL DISTRICT
C.V. STARR INTERMEDIATE SCHOOL
CAFETORIUM ADDITION INTERIOR
RENOVATIONS AND ALTERATIONS
20 FARM TO MARKET ROAD BREWSTER, NY 10509

DRAWING TITLE
CAFETORIUM AV AND STAGE LIGHTING LINE DRAWINGS

12-09-2024	BID
03-05-2024	SED SUBMISSION
11-29-2023	D.D. SUBMISSION
08-31-2023	S.D. SUBMISSION
DATE	ISSUED TO

SHEET SIZE 30"x42"
DRAWING NO. CVS AV200
SCALE AS NOTED
DRAWN BY
FILE NO. 23505.02

PLOT DATE: December 05, 2024 - 9:29am

FILE: I:\23505.02 CVS Cafetorium & Existing Cafeteria Conversion\DRAWINGS\CURRENT\1-F&D\CVS AV200.dwg

Brewster CSD- CV Starr security additions			
	Description	Quantity	Unit
	8MP H4 Multisensor-270 Deg. Surface WITH IR PKG	2	Count
	Avigilon H5A 4MP 3-9mm 4.0C-H5A-D1	2	Count
	Avigilon H5A 6MP 5-8mm 8.0C-H5A-D1	2	Count
	Exterior Evacuation Strobe (EES)	1	Count
	IP Intercom Door Station	1	Count
	Lockdown/Exterior Strobe Sys w/Sync Hardwired	1	Count
	PKG: 4 DOOR-EP1502 & MR52 WITH 12 & 24VDC Power	1	Count
R	Proposed Access Door	2	Count

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LICENSE EXP. DATE: 03-31-2025

S.E.D. CONTROL NUMBER:
48-06-01-06-0-001-026

PROJECT TITLE
BREWSTER CENTRAL SCHOOL DISTRICT
C.V. STARR INTERMEDIATE SCHOOL
CAFETORIUM ADDITION / INTERIOR RENOVATIONS & SITE IMPROVEMENTS
20 FARM TO MARKET ROAD BREWSTER, NY 10509

DRAWING TITLE
GROUND FLOOR AUDIO PLAN

DATE	ISSUED TO
12-09-2024	BID
03-05-2024	SED SUBMISSION
11-29-2023	D.D. SUBMISSION
08-31-2023	S.D. SUBMISSION

SHEET SIZE: 30"x42"
DRAWING NO.: CVS SEC-1
SCALE: AS NOTED
DRAWN BY:
FILE NO.: 23505.02

1 GROUND FLOOR PLAN
SCALE: 1/8" = 1'-0"

0 2' 4' 8' 16' 32'

PLOT DATE: February 08, 2024 - 9:27am

FILE: I:\23505.02 CVS Cafetorium & Existing Cafeteria Conversion\DRAWINGS\CURRENT\1-F&D\CVS SEC-1-2-3.dwg

Brewster CSD- CV Starr security additions		
Description	Quantity	Unit
8.0L-H4A-BO1-IR AVG 8MP 4.3-8mm Bullet Camera	2	Count
8MP H4 Multisensor-270 Deg. Surface WITH IR PKG	1	Count
10.0C-H5DH-DO1-IR	2	Count
Exterior Evacuation Strobe (EES)	1	Count
IP Intercom Door Station	1	Count
IPSWS-SM-O Exterior IP Speaker	6	Count
LOCK DOWN	1	Count
Proposed Access Door	1	Count

IR 8MP 4.3-8mm

IR 8MP 4.3-8mm

8MP 2.8-12mm

UPPER CAFETORIUM

UPPER STAGE

S.E. 12:1:2
169

GRADE 4
168

CORRIDOR
170

RESOURCE
167

GRADE 4
166

GRADE 4
165

GRADE 4
138

GRADE 5
139

GRADE 5
140

GRADE 5
142

TEACHERS
143

SGI/RES
146

CORRIDOR
141

CORRIDOR
141A

CORRIDOR
141

STAIR
52

CORRIDOR
180

SECURITY OFFICE
181

STORAGE
181A

VESTIBULE
153

ART
155

ART STORAGE
156

G.T.
147

B.T.
148

STOR
CUST. OFFICE
150

1 FIRST FLOOR PLAN
SCALE: 1/8" = 1'-0"

0 2' 4' 8' 16' 32'

N

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LICENSE EXP. DATE: 03-31-2025

S.E.D. CONTROL NUMBER:
48-05-01-06-0-001-026

PROJECT TITLE
BREWSTER CENTRAL SCHOOL DISTRICT
C.V. STARR INTERMEDIATE SCHOOL
CAFETORIUM ADDITION/INTERIOR RENOVATIONS AND SITE WORK
20 FARM TO MARKET ROAD BREWSTER, NY 10509

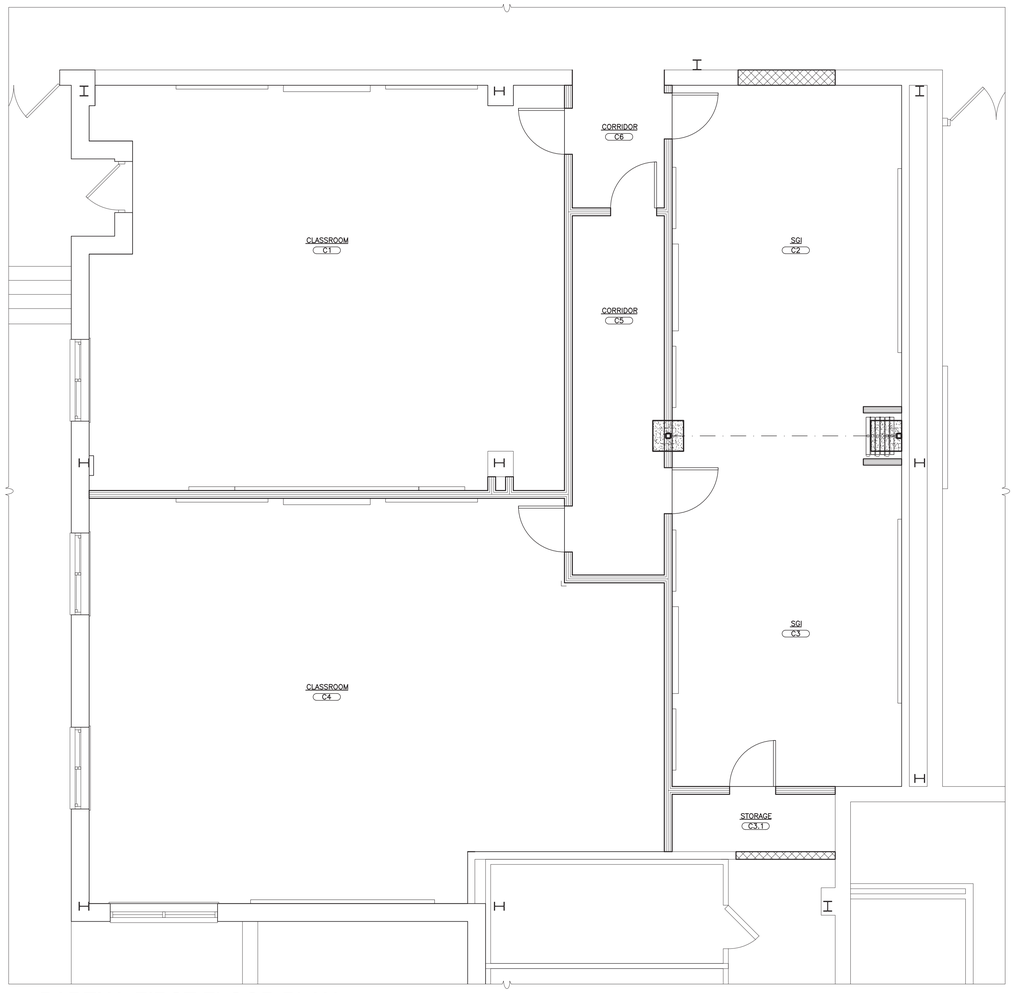
DRAWING TITLE
FIRST FLOOR AUDIO PLAN

DATE	ISSUED TO
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03-05-2024	SED SUBMISSION
11-29-2023	D.D. SUBMISSION
08-31-2023	S.D. SUBMISSION

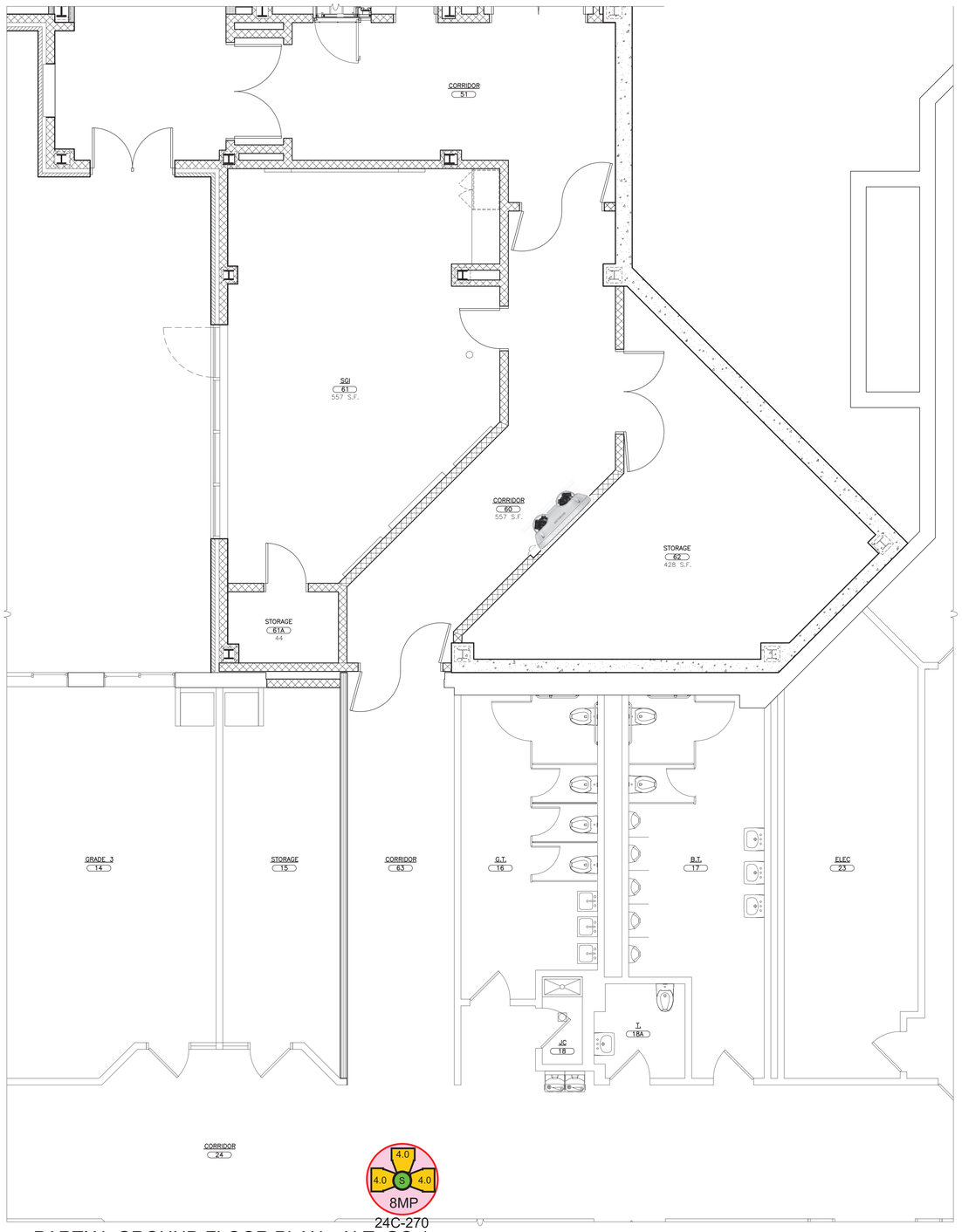
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FILE NO. 23505.02

PLOT DATE: February 08, 2024 - 9:27am

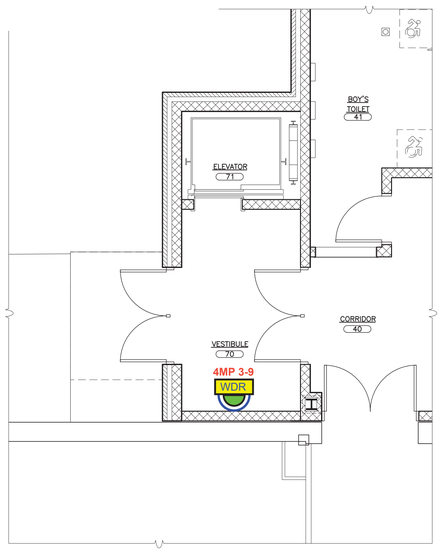
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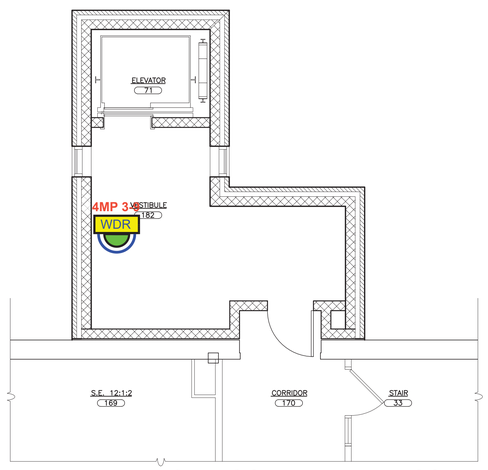
1 PARTIAL FIRST FLOOR PLAN
SCALE: 1/4" = 1'-0"



2 PARTIAL GROUND FLOOR PLAN - ALT. GC-1
SCALE: 1/4" = 1'-0"

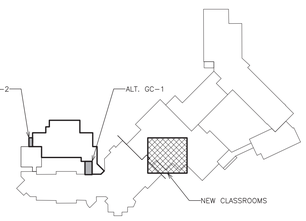


3 PARTIAL GROUND FLOOR PLAN - ALT. GC-2
SCALE: 1/4" = 1'-0"



4 PARTIAL FIRST FLOOR PLAN - ALT. GC-2
SCALE: 1/4" = 1'-0"

Brewster CSD- CV Starr security additions			
	Description	Quantity	Unit
	8MP H4 Multisensor-270 Deg. Surface WITH IR PKG	1	Count
	10.0C-H5DH-DO1-IR	1	Count
	Avigilon H5A 4MP 3-9mm 4.0C-H5A-D1	2	Count



KEY PLAN
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No. 023442
STATE OF NEW YORK

LICENSE EXP. DATE: 03-31-2025

S.E.D. CONTROL NUMBER:
48-06-01-06-0-001-026

PROJECT TITLE
BREWSTER CENTRAL SCHOOL DISTRICT
C.V. STARR INTERMEDIATE SCHOOL
CAFETORIUM ADDITION, INTERIOR RENOVATIONS & EXISTING CAFETERIA
20 FARM TO MARKET ROAD BREWSTER, NY 10509

DRAWING TITLE
PARTIAL AUDIO PLANS

DATE	ISSUED TO
12-09-2024	BID
03-05-2024	SED SUBMISSION
11-29-2023	D.D. SUBMISSION
08-31-2023	S.D. SUBMISSION

SHEET SIZE 30"x42"
DRAWING NO. CVS SEC-3
SCALE AS NOTED
DRAWN BY
FILE NO. 23505.02

PLOT DATE: February 08, 2024 - 9:29am

FILE: I:\23505.02 CVS Cafetorium & Existing Cafeteria Conversion\DRAWINGS\CURRENT\1-F&D\CVS SEC-1-2-3.dwg

COMMUNICATIONS SYMBOLS LIST

VOICE/DATA

- VOICE OUTLET – FLUSH WALL MOUNT
- DATA OUTLET – FLUSH WALL MOUNT
- VOICE/DATA OUTLET – FLUSH WALL MOUNT
- VOICE OUTLET – FURNITURE MOUNT
- DATA OUTLET – FURNITURE MOUNT
- VOICE/DATA OUTLET – FURNITURE MOUNT
- VOICE OUTLET – FLUSH FLOOR MOUNT
- DATA OUTLET – FLUSH FLOOR MOUNT
- VOICE/DATA OUTLET – FLUSH FLOOR MOUNT
- VOICE OUTLET – FLOOR BOX MOUNT
- DATA OUTLET – FLOOR BOX MOUNT
- VOICE/DATA OUTLET – FLOOR BOX MOUNT
- VOICE OUTLET – FLUSH CEILING MOUNT
- DATA OUTLET – FLUSH CEILING MOUNT
- VOICE/DATA OUTLET – FLUSH CEILING MOUNT
- A ANALOG OUTLET – FLUSH WALL MOUNT
- W TELEPHONE OUTLET – FLUSH WALL MOUNT
- WIRELESS OUTLET
- TV CATV OUTLET – TERMINATED ON F–TYPE CONNECTOR
- CONDUIT SLEEVE
- CORE DRILL
- LADDER RACKING SYSTEM
- CABLE TRAY / RACEWAY SYSTEM
- J–HOOK CABLE ROUTE
- TELEPHONE TERMINAL CABINET – SURFACE MOUNT
- TELEPHONE TERMINAL CABINET – FLUSH MOUNT
- EQUIPMENT RACK – FLOOR MOUNT
- EQUIPMENT RACK – WALL MOUNT

PUBLIC ADDRESS - CLOCK

- S WALL MOUNTED IP SPEAKER ASSEMBLY
- S FLUSH CEILING MOUNTED IP SPEAKER ASSEMBLY
- C WALL MOUNTED IP CLOCK ASSEMBLY
- CAGE COVER FOR WALL MOUNTED SPEAKER OR CLOCK ASSEMBLY
- EXTERIOR RATED HORN

VOICE/DATA OUTLET DESIGNATIONS

WING — FLOOR — XY-WPZZ
- WING: INDICATION FOR WALL PHONE
- FLOOR: SEQUENTIAL 2 DIGIT NUMBER

1 PORT STATION OUTLET ID NOMENCLATURE
PORT 1 DESIGNATION – A

WING — FLOOR — XY-ZZZ
- FLOOR: SEQUENTIAL 3 DIGIT NUMBER

2 PORT STATION OUTLET ID NOMENCLATURE
PORT 1 DESIGNATION – A
PORT 2 DESIGNATION – B

WING — FLOOR — XY-TZZ
- WING: INDICATION FOR WALL PHONE
- FLOOR: SEQUENTIAL 2 DIGIT NUMBER

6 PORT STATION OUTLET ID NOMENCLATURE
PORT 1 DESIGNATION – A
PORT 2 DESIGNATION – B
PORT 3 DESIGNATION – C
PORT 4 DESIGNATION – D
PORT 5 DESIGNATION – E
PORT 6 DESIGNATION – F

POWER

- T TRANSFORMER
- 20A, 125V DUPLEX RECEPTACLE – FLUSH WALL MOUNTED
- 20A, 125V QUADRUPLEX RECEPTACLE – FLUSH WALL MOUNTED
- 20A, 125V ISOLATED GROUND, DUPLEX RECEPTACLE, FLUSH FLOOR MOUNTED.
- 20A, 125V DUPLEX RECEPTACLE FLUSH WALL MOUNTED. GFI TYPE.
- 20A, 125V EMERGENCY DUPLEX RECEPTACLE. FLUSH WALL MOUNTED
- 20A, 125V DUPLEX RECEPTACLE SURFACE MOUNTED
- 20A, 125V SURGE SUPPRESSION DUPLEX RECEPTACLE. FLUSH WALL MOUNTED
- C FLUSH FLOOR MOUNTED JUNCTION BOX OR POKE–THRU FOR ELECTRIFIED FURNITURE POWER FEED
  C = VOICE/DATA FEED
- 20A, 125V DUPLEX RECEPTACLE FLUSH FLOOR MOUNTED
- 20A, 125V QUADRUPLEX RECEPTACLE FLUSH FLOOR MOUNTED
- A SPECIAL PURPOSE RECEPTACLE – FLUSH WALL MOUNTED
  A = TYPE
- A SPECIAL PURPOSE RECEPTACLE – FLUSH FLOOR MOUNTED
  A = INDICATES TYPE
- FLUSH FLOOR MOUNTED 20A, 125V DUPLEX RECEPTACLE
- FLUSH FLOOR MOUNTED 20A, 125V QUADRUPLEX RECEPTACLE
- FLUSH FLOOR MOUNTED JUNCTION BOX OR POKE–THRU FOR ELECTRIFIED FURNITURE POWER FEED.
- A PEDESTAL MOUNTED SPECIAL PURPOSE RECEPTACLE LETTER INDICATES TYPE
- PEDESTAL MOUNTED COMBINATION VOICE/DATA & POWER OUTLET
- J CEILING MOUNTED JUNCTION BOX WITH FINAL EQUIPMENT CONNECTION
- JH FLUSH WALL MOUNTED JUNCTION BOX WITH FINAL EQUIPMENT CONNECTION
- J FLUSH FLOOR MOUNTED JUNCTION BOX
- PULLBOX
- P POWER POLE
- EXISTING CONDUIT TO BE REMOVED
- EXISTING CONDUIT/EQUIPMENT TO REMAIN
- NEW CONCEALED CONDUIT
- NEW EXPOSED CONDUIT
- NEW UNDERGROUND/IN SLAB CONDUIT
- NEW EMERGENCY CONDUIT
- CONDUIT TURNING UP
- CONDUIT TURNING DOWN
- CONDUIT STUB–UP WITH FLEXIBLE EQUIPMENT CONNECTION
- FLEXIBLE EQUIPMENT CONNECTION
- CAPPED CONDUIT
- 5, 3, 1 HOMERUN – NUMERAL WHERE USED INDICATES CIRCUIT NUMBER FOR REFERENCE ONLY.
- 1 HOMERUN – NUMERAL WHERE USED INDICATES CIRCUIT NUMBER FOR REFERENCE ONLY
- T P S UNDERFLOOR DUCT WITH COMPARTMENT JUNCTION BOX
  T = TELEPHONE
  P = POWER
  S = SIGNAL
- CABLE TRAY
- A # SECTION A
  # = DRAWING NUMBER

ABBREVIATIONS

+	SPECIAL MOUNTING HEIGHT. COORDINATE LOCATION WITH ARCHITECTURAL ELEVATIONS
1P, SP	SINGLE POLE
2P	TWO POLE
3P	THREE POLE
A	AMPERE
AC	ABOVE COUNTER
AFF	ABOVE FINISHED FLOOR
AIC	AMPERE INTERRUPTING CAPACITY
AL	ALUMINUM
ALM	ALARM
AMM	AMMETER
AQST	AQUASTAT
ARF	ABOVE RAISED FLOOR
ASYM	ASYMMETRICAL
ATS	AUTOMATIC TRANSFER SWITCH
AUTO	AUTOMATIC
AV	AUDIO VISUAL
AWG	AMERICAN WIRE GAUGE
BG	BREAK GLASS SWITCH
BIL	BASIC IMPULSE LEVEL
BLDG	BUILDING
CAB	CABINET
CAT	CATALOG
C	CONDUIT
CCTV	CLOSED CIRCUIT TELEVISION
CKT	CIRCUIT
CL	CENTER LINE
CLG	CEILING
CLOS	CLOSET
CTL	CONTROL
CO	CONDUIT ONLY
COMM	COMMUNICATION
CONN	CONNECTED
CONT	CONTINUATION
CU	COPPER
DB	DECIBEL
DEG	DEGREE
°C	DEGREE CELSIUS
°F	DEGREE FAHRENHEIT
DIA	DIAMETER
DISC	DISCONNECT
DIV	DIVISION
DN	DOWN
DT	DUST TIGHT
DWG	DRAWING
(E)	EXISTING TO REMAIN
EA	EACH
EC	ELECTRICAL CONTRACTOR
EL	ELEVATION
ELEC	ELECTRICAL
ELEV	ELEVATOR
EMER,EM	EMERGENCY
EQUIP	EQUIPMENT
(ER)	EXISTING TO BE REMOVED
(ERR)	EXISTING TO BE REMOVED & RELOCATED
ERC	ELECTRIC REHEAT COIL
EWC	ELECTRIC WATER COOLER
EXIST,EX	EXISTING
EXT	EXTERIOR
F&I	FURNISH AND INSTALL
FBO	FURNISHED BY OTHER DIVISION OF WORK
FDR	FEEDER
FDS	FUSED DISCONNECT SWITCH
FIXT	FIXTURE
FL	FLOOR
FLA	FULL LOAD AMPERES
FLEX	FLEXIBLE
FM	FLOOR MACHINE
FSP	FAN SHUTDOWN PANEL
FT	FEET OR FOOT
G	GROUND
GEN	GENERATOR
GFI	GROUND FAULT INTERRUPTER
HC	HUNG CEILING
HID	HIGH INTENSITY DISCHARGE
HH	HAND HOLE
HN	HALF NEUTRAL
HP	HORSE POWER
HV	HIGH VOLTAGE
HZ	HERTZ
IC	INTERRUPTING CAPACITY
ID	INSIDE DIAMETER
INST	INSTRUMENT
IPC	ISOLATED POWER CENTER
IPX	ISOLATED POWER CENTER–X–RAY
JB	JUNCTION BOX
KCMIL	THOUSAND CIRCULAR MILS
KV	KILOVOLT
KVA	KILOVOLT AMPERE
KW	KILOWATT
KWH	KILOWATT HOUR
LCP	LOCAL CONTROL PANEL
LIM	LINE ISOLATION MONITOR
MAP	MECHANICAL ALARM PANEL
MAX	MAXIMUM
MECH	MECHANICAL
MER	MECHANICAL EQUIPMENT ROOM
MFS	MAIN FUSED SWITCH
MH	MANHOLE
MIC	MICROPHONE
MIN	MINIMUM
MLO	MAIN LUG ONLY
MOPD,MOCP	MAX. OVERCURRENT PROTECTION
MTD	MOUNTED
MTG	MOUNTING
MTS	MANUAL TRANSFER SWITCH
MUFS	MAIN UNFUSED SWITCH
N	NEUTRAL
NC	NORMALLY CLOSED
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
NP	NETWORK PROTECTOR
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER
P	POLE
PAP	PLUMBING ALARM PANEL
PB	PULL BOX
PBS	PUSH BUTTON SWITCH
PHC	PIPE HEATING CABLE
ø	PHASE
PA	PUBLIC ADDRESS
PNL	PANEL
PR	PRINTER
PS	PRESSURE SWITCH
PWR	POWER
RCS	REMOTE CONTROL SWITCH
RDCP	REMOTE DATA COLLECTION PANEL
(RE)	RELOCATED EXISTING
REQ	REQUIRED
RFL	RAISED FLOOR
RG	ROOM GROUND POINT
RM	ROOM
RO	RACEWAY ONLY
RP	REFERENCE GROUND POINT
(RRO)	EXISTING TO BE REMOVED AND RETURN TO OWNER
SAP	SPRINKLER ALARM PANEL
SCHED,SCH	SCHEDULE
SD	SMOKE DETECTOR
SDP	SMOKE DETECTION PANEL
SECT	SECTION
SIG	SIGNAL
SN	SOLID NEUTRAL
SPEC	SPECIFICATION
SPKR	SPEAKER
SW	SWITCH
SWBD	SWITCHBOARD
SYS	SYSTEMS
SYM	SYMMETRICAL
SV	SOLENOID VALVE
TB	TROUBLE BELL
TBD	TO BE DETERMINED
TLBD	TERMINAL BOARD
TEL	TELEPHONE
TEMP	TEMPERATURE
THERM	THERMOSTAT
TP	TAMPER PROOF
TRANSF,XFMR	TRANSFORMER
TS	TAMPER SWITCH
TV	TELEVISION
TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSION
TYP	TYPICAL
UFD	UNDERFLOOR DUCT
UNF	UNFUSED
UON	UNLESS OTHERWISE NOTED
V	VOLT OR VOLTAGE
VA	VOLT AMPERE
VM	VOLTMETER
VP	VAPORPROOF
W	WATT
WFS	WATER FLOW SWITCH
WHM	WATT HOUR METER
WP	WEATHERPROOF
WT	WATERTIGHT
XP	EXPLOSION PROOF

COMMUNICATIONS DEMOLITION NOTES

1. LOCATE, IDENTIFY, SEPARATE, AND COMPLETELY REMOVE AND DISPOSE OF ALL EXISTING COMMUNICATIONS CABLING WITHIN THE AREAS TO BE RENOVATED AND THE EXISTING TERMINATIONS IN THE COMMUNICATIONS CLOSETS IN ACCORDANCE WITH ELECTRICAL CODE REQUIREMENTS FOR REMOVAL OF ABANDONED CABLING.
2. OTHER ACTIVE LOW VOLTAGE CABLING (INCLUDING COMMUNICATION CABLING) SERVING AREAS NOT TO BE RENOVATED MAY BE BUNDLED WITH THE CABLING TO BE REMOVED. DO NOT REMOVE OR DAMAGE ANY CABLING SERVING AREAS NOT TO BE RENOVATED.
3. ACTIVE OPTICAL FIBER AND COPPER RISER CABLES, NETWORK SWITCHES, AND OTHER ACTIVE EQUIPMENT IS PRESENT IN THE TELECOM CLOSET. DO NOT DAMAGE OR DISTURB.
4. LOCATE, IDENTIFY, REMOVE AND DISPOSE OF ALL EXISTING OUTLET BACKBOXES, STUB–UPS AND CONDUITS NOTED ON DEMOLITION DRAWINGS AS "EXISTING" VOICE/DATA OUTLET & STUB–UP TO BE REMOVED".
5. REMOVE AND SAVE FOR OWNER'S REUSE OWNER'S EXISTING EQUIPMENT RACKS AND PATCH PANELS IN EXISTING COMMUNICATIONS CLOSET. OUTLET & STUB–UP TO BE REMOVED.

COMMUNICATIONS GENERAL NOTES

1. ALL WORK SHALL CONFORM TO THE LATEST REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE, NFPA, UL, ADA AND ALL OTHER GOVERNING AGENCIES HAVING JURISDICTION.
2. DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL ARRANGEMENT OF SYSTEMS AND WORK. FOLLOW DRAWINGS IN LAYING OUT WORK AND CHECK DRAWINGS OF OTHER TRADES TO VERIFY SPACE CONDITIONS. MAINTAIN HEADROOM AND SPACE CONDITIONS.
3. VERIFY LOCATIONS OF OUTLETS IN FINISHED ROOMS WITH ARCHITECTURAL DRAWINGS OF INTERIOR DETAILS AND FINISH.
4. HOMERUN ALL VOICE, DATA AND VIDEO OUTLET CABLES VIA CONDUIT STUB–UPS, DRYWALLS AND ACCESSIBLE CEILINGS DIRECTLY TO THE IDF ROOMS AS INDICATED ON THE DRAWINGS.
5. INSTALL NEW WORK AND CONNECT TO EXISTING WORK, WHEN APPLICABLE, WITH MINIMUM INTERFERENCE TO EXISTING FACILITIES. TEMPORARY SHUTDOWNS: ONLY WITH WRITTEN CONSENT OF OWNER. MAINTAIN CONTINUOUS OPERATION OF EXISTING FACILITIES. ALARM AND EMERGENCY SYSTEMS ARE NOT TO BE INTERRUPTED.
6. FIRESTOPPING SHALL BE INSTALLED WHENEVER WIRING OR RACEWAYS CROSS FIRE RATED CONSTRUCTION.
7. ANY DAMAGE TO PARTITIONS, FLOORS, CEILINGS OR ANY PART OF THE BUILDING OR EQUIPMENT CAUSED BY THE WORK OF THE CONTRACTOR SHALL BE MADE GOOD AT NO ADDITIONAL EXPENSE TO THE OWNER.
8. ALL CUTTING AND PATCHING SHALL BE COORDINATED WITH THE GENERAL CONTRACTOR.
9. UPON COMPLETION OF THE WORK, THREE MARKED–UP SETS OF "AS–BUILT" DRAWINGS SHALL BE SUBMITTED TO THE OWNER AND TWO SETS TO THE BUILDING MANAGER.
10. COMMUNICATIONS CONTRACTOR SHALL VISIT AND EXAMINE CAREFULLY THE EXISTING AREAS AFFECTED BY THIS WORK AND BECOME FAMILIAR WITH EXISTING CONDITIONS. CONTRACTOR SHALL PERFORM THIS PRIOR TO SUBMITTING HIS PROPOSAL. SUBMISSION OF A PROPOSAL SHALL BE CONSTRUED AS EVIDENCE THAT SUCH AN EXAMINATION HAS BEEN MADE AND LATER CLAIMS WILL NOT BE RECOGNIZED FOR EXTRA LABOR, EQUIPMENT OR MATERIALS REQUIRED BECAUSE OF DIFFICULTIES ENCOUNTERED WHICH COULD HAVE BEEN FORESEEN HAD SUCH AN EXAMINATION BEEN MADE.
11. CONTRACTOR, BEFORE INSTALLING ANY OF THE WORK, SHALL SEE THAT IT DOES NOT INTERFERE WITH CLEARANCES REQUIRED FOR FINISHED COLUMNS, HUNG CEILINGS, PLASTER, PARTITIONS, WALLS, ETC., AS SHOWN IN THE ARCHITECTURAL DRAWINGS AND DETAILS. IF ANY WORK IS SO INSTALLED AND IT LATER DEVELOPS THAT SUCH DETAILS OR DESIGN CANNOT BE FOLLOWED, CONTRACTOR AT HIS OWN EXPENSE SHALL MAKE SUCH CHANGES IN THE WORK AS DIRECTED BY THE ARCHITECT, AS WELL AS TO PERMIT THE INSTALLATION OF THE ARCHITECTURAL WORK AS SHOWN ON THE PLANS AND DETAILS.
12. FINAL ACCEPTANCE IS TO BE MADE AFTER THE CONTRACTOR HAS DEMONSTRATED THAT THE WORK FULFILLS THE REQUIREMENTS OF THE PLANS AND SPECIFICATIONS.
13. ANY BLOCK WALLS WITHOUT EXISTING PENETRATION MUST BE CORED/DRILLED BY CONTRACTOR BASED ON FIELD COORDINATION.
14. ALL WORK SUBJECT TO FULL FIELD COORDINATION BY CONTRACTOR.
15. ALL LATERAL CABLING TO BE RUN TO WORK STATIONS VIA METAL SURFACE RACEWAY.
16. COORDINATE INSTALLATION OF CONDUITS, CABLE TRAYS AND J–HOOKS WITH ALL OTHER COMPONENTS AND/OR TRADES WITHIN THE CEILING SPACE.
17. COORDINATE WITH ELECTRICAL CONTRACTOR FOR THE ROUTING OF ALL STUB–UPS AND/OR RACEWAYS TO EACH TELECOM OUTLET BOX. STUB–UPS AND RACEWAYS SHALL BE RUN TO THE NEAREST ACCESSIBLE CEILING SPACE.
18. STANDARD OUTLET MOUNTING HEIGHT SHALL BE THE SAME AS ELECTRICAL HEIGHT, UNLESS OTHERWISE NOTED. EXACT LOCATION OF OUTLETS SHALL BE AS INDICATED ON THE ARCHITECTURAL DRAWINGS.
19. PROVIDE FIRESTOPPING FOR ALL SLEEVE AND CONDUIT PENETRATIONS THROUGH RATED PARTITIONS OR FLOORS IN ACCORDANCE WITH THE SPECIFICATIONS.
20. LABEL ALL RACKS, FRAMES, CABINETS, BLOCKS, CABLES, CABLE SUPPORTS, ETC. IN ACCORDANCE WITH EIA/TIA 606.
21. OUTLET IDENTIFICATION NUMBERING SHALL BE AS DIRECTED BY OWNERS MIS DEPARTMENT. INSTALLATION SHALL COMPLY WITH SPECIFICATIONS. EACH CABLING SHALL BE TAGGED AT ALL TERMINATION POINTS.

PAGING & CLOCK BILL OF MATERIAL

ITEM	DESCRIPTION	PART NUMBER	NOTES
1	BOGEN NYQUIST ANALOG STATION BRIDGE	NQ-E7030	
2	INPUT/OUTPUT CONTROLLER	NQ-E7010	
3	NQ SERIES CEILING MOUNT SPEAKER	NQ-S1810CT-G2	
4	NQ SERIES WALL MOUNT SPEAKER	NQ-S1810WT-G3	
5			
6	DIGITAL CALL SWITCH	NQ-E7020	
7	MATRIX MIXER PRE-AMP	NQ-P0100	
8	BOGEN VOIP ADMIN PHONE - COLOR TOUCH DISPLAY	NQ-T1100	
9	PLENUM RATED VOIP INTERCOM MODELS	NQ-GA10P/NQ-GA10PV	
10			
11	NYQUIST SYSTEM CONTROLLER	NQ-SYSCTRL	
12	NETWORK 2-CHANNEL AUDIO POWER AMPLIFIERS	NQ-A2120	
13	BCMA 3000 SERIES MASTER CLOCK	3000 SERIES	
14	BCAL SERIES BATTERY ROUND CLOCK	BCAL-5AS-12R-0-XX	
15			

SPEAKER AND CLOCK DEVICE ALLOWNCES

1. CONTRACTOR SHALL FURNISH TO THE SCHOOL FIVE (5) OF EACH COMPONENT INSTALLED FOR THE PROJECT FOR ATTIC STOCK AND FUTURE ADDITIONS TO THE SYSTEM. INCLUDE FOR EACH THE ASSOCIATED CIRCUIT CONNECTION VIA A 25FT ALLOWANCE OF CABLING IN RACEWAY AND SYSTEM PROGRAMMING. COMPONENTS SHALL INCLUDE THE FOLLOWING:
   - FIVE (5) EXTERNAL SPEAKER ASSEMBLY FOR EXTERIOR RATED SPEAKER ASSEMBLIES
   - FIVE (5) INTERNAL SPEAKER ASSEMBLY FOR ACT, INCLUDE ALL COMPONENTS OF COMPLETE SPEAKER ASSEMBLY FOR 5 COMPLETE ASSEMBLIES.
   - FIVE (5) INTERNAL SPEAKER ASSEMBLIES FOR CLASSROOMS, INCLUDE ALL COMPONENTS FOR OF A COMPLETE SPEAKER ASSEMBLY FOR 5 COMPLETE ASSEMBLIES
   - FIVE (5) INTERNAL CLOCK ASSEMBLIES FOR CLASSROOMS
   - FIVE (5) INTERNAL CLOCK ASSEMBLIES FOR NON CLASSROOM AREAS
2. CONTRACTOR SHALL PROVIDE 1 YEAR WORKMANSHIP WARRANTY ON ALL NEWLY INSTALLED INFRASTRUCTURE. CONTRACTOR SHALL EXTEND BOGEN WARRANTY TO PROJECT SITE FOLLOWING THE EXPIRATION OF 1 YEAR SERVICE AGREEMENT. AS AN ADD ALTERNATE, CONTRACTOR TO PROVIDE A MAINTENANCE CONTRACT TO BE REVIEWED AND NEGOTIATED WITH THE SCHOOL DISTRICT FOR CONTINUING SERVICE AND MAINTENANCE FOR NEWLY INSTALLED SYSTEMS.

GROUNDING & BONDING GENERAL NOTES

1. GROUNDING SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF THE LOCAL AUTHORITIES, AND SUBJECT TO THE APPROVAL OF THE ELECTRICAL ENGINEER.
2. ALL GROUND WIRES AND BONDING JUMPERS SHALL BE GREEN INSULATED, COPPER. ALL GROUND WIRES SHALL BE WITHOUT JOINTS AND SPLICES OVER THE ENTIRE LENGTH.
3. WHERE IT IS NECESSARY TO PLACE BONDING CONDUCTORS IN FERROUS METAL CONDUIT THAT EXCEEDS 3' IN LENGTH, THE CONDUCTORS SHALL BE BONDED TO EACH END OF THE CONDUIT. OBTAIN WRITTEN AUTHORIZATION FROM ENGINEER PRIOR TO UTILIZING FERROUS METAL CONDUITS FOR GROUNDING CONDUCTORS.
4. INSTALL BONDING AND GROUNDING CONDUCTORS IN DIRECT, STRAIGHT PATHS WITH NO "SLACK" COPPER LOOPS OR EXTRA LENGTHS. BENDS SHALL BE KEPT TO A MINIMUM, AND SHALL HAVE A RADIUS OF 4", MINIMUM.
5. PROVIDE AN INSULATED, STRANDED UNINTERRUPTED BONDING CONDUCTOR BETWEEN THE TMGB AND THE NEAREST BUILDING STEEL COLUMN, IF APPLICABLE. THE BONDING CONDUCTOR SHALL BE EXOTHERMICALLY WELDED TO THE BUILDING COLUMN AND MECHANICALLY BONDED TO THE TMGB WITH A TWO HOLE LUG THAT IS HYDRAULICALLY CRIMPED ONTO THE CONDUCTOR.
6. PROVIDE AN INSULATED, STRANDED UNINTERRUPTED BONDING CONDUCTOR BETWEEN THE TMGB AND THE MAIN ELECTRICAL PANEL ALTERNATING CURRENT EQUIPMENT GROUND THAT IS SERVING THE BUILDING. THE BONDING CONDUCTOR SHALL BE MECHANICALLY BONDED TO BOTH THE TMGB AND THE GROUND BAR IN THE ELECTRICAL PANEL WITH TWO HOLE LUGS THAT ARE HYDRAULICALLY CRIMPED ONTO EACH END OF THE BONDING CONDUCTOR.
7. PROVIDE AN INSULATED, UNINTERRUPTED TELECOMMUNICATIONS BONDING BACKBONE (TBB) CONDUCTOR BETWEEN THE TMGB AND ALL THE TGBS INDICATED ON THE DRAWINGS. MECHANICALLY BOND THE TBB TO THE TMGB WITH A TWO HOLE LUG THAT IS HYDRAULICALLY CRIMPED ONTO THE END OF THE TBB. BOND EACH TGB TO THE TBB WITH AN INSULATED, STRANDED, UNINTERRUPTED BONDING CONDUCTOR. THE BONDING CONDUCTOR SHALL BE MECHANICALLY BONDED TO BOTH THE TGB AND THE TBB. AT THE TGB, UTILIZE A TWO HOLE LUG THAT IS HYDRAULICALLY CRIMPED ONTO THE END OF THE BONDING CONDUCTOR. AT THE TBB, UTILIZE A HYDRAULICALLY CRIMPED BONDING LUG. REMOVE ONLY AS MUCH INSULATION FROM THE TBB AS IS NECESSARY AND PRACTICAL TO COMPLETE THE BOND.
8. PROVIDE AN INSULATED, UNINTERRUPTED GROUNDING CONDUCTOR FROM EACH TGB TO THE NEAREST ACCESSIBLE STEEL BUILDING COLUMN, IF APPLICABLE. THE BONDING CONDUCTOR SHALL BE EXOTHERMICALLY WELDED TO THE BUILDING COLUMN AND MECHANICALLY BONDED TO THE TGB WITH A TWO HOLE LUG THAT IS HYDRAULICALLY CRIMPED ONTO THE CONDUCTOR.
9. PROVIDE AN INSULATED, UNINTERRUPTED GROUNDING CONDUCTOR FROM EACH TGB TO GROUND BAR IN THE ELECTRICAL DISTRIBUTION PANEL SERVING THE TELECOMMUNICATIONS LOADS IN THAT ROOM. THE BONDING CONDUCTOR SHALL BE MECHANICALLY BONDED TO BOTH THE TGB AND THE GROUND BAR IN THE ELECTRICAL PANEL WITH TWO HOLE LUGS THAT ARE HYDRAULICALLY CRIMPED ONTO EACH END OF THE BONDING CONDUCTOR.

COMMUNICATIONS PATHWAYS GENERAL NOTES

1. CONDUITS AND SLEEVES ARE SHOWN DIAGRAMMATICALLY AS COMMUNICATION PATHWAY REQUIREMENTS. EXACT ROUTING, BENDS, PULL–BOX LOCATIONS, ETC. ARE SUBJECT TO FIELD CONDITIONS AND SHALL BE COORDINATED WITH ELECTRICAL ENGINEER. REFER TO ELECTRICAL DRAWINGS FOR DETAILS.
2. COMMUNICATIONS CONDUIT RUNS SHALL BE INSTALLED WITH:
   2.1. NO BEND IN EXCESS OF 90–DEGREES,
   2.2. NO AGGREGATE OF BENDS GREATER THAN 180–DEGREES BETWEEN PULL BOXES OR PULL POINTS,
   2.3. NO CONTINUOUS SECTION IN EXCESS OF 100',
   2.4. NO BENDS OCCURRING WITHIN PULL BOXES.
3. COMMUNICATIONS CONDUIT BENDS SHALL BE INSTALLED WITH:
   3.1. A BEND RADIUS OF 6–TIMES THE CONDUIT'S INNER DIAMETER FOR CONDUITS 2 TRADE SIZE OR SMALLER,
   3.2. A BEND RADIUS OF 10–TIMES THE CONDUIT'S INNER DIAMETER FOR CONDUITS GREATER THAN 2 TRADE SIZE.
4. COMMUNICATIONS CONDUIT SYSTEM SHALL BE PROPERLY BONDED IN ACCORDANCE WITH ALL NATIONAL OR LOCAL REQUIREMENTS.
5. ELECTRICAL CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OF FIELD–COORDINATED TELECOM PATHWAYS TO ELECTRICAL ENGINEER AND TELECOM ENGINEER FOR REVIEW AND APPROVAL.

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LICENSE EXP. DATE: 03-31-2025

S.E.D. CONTROL NUMBER:
48-06-01-06-0-001-026

PROJECT TITLE
BREWSTER CENTRAL SCHOOL DISTRICT
C.V. STARR INTERMEDIATE SCHOOL
CAFETORIUM ADDITION & INTERIOR RENOVATIONS AS FOR ACT
29 FARM TO MARKET ROAD BREWSTER, NY 10509

DRAWING TITLE
PUBLIC ADDRESS/CLOCK SHEET

DATE	ISSUED TO
12-09-2024	BID
03-05-2024	SED SUBMISSION
11-29-2023	D.D. SUBMISSION
08-31-2023	S.D. SUBMISSION

SHEET SIZE 30"x42"
DRAWING NO. CVS T000
SCALE AS NOTED
DRAWN BY
FILE NO. 23505.02

PLOT DATE: December 05, 2024 - 9:20am
FILE: I:\23505.02 CVS Cafetorium & Existing Cafeteria Conversion\DRAWINGS\CURRENT\1–F&D\CVS T000.dwg

DRAWING NOTES:

1. PRIOR TO BID SUBMISSION, CONTRACTOR SHALL VISIT SITE TO VERIFY LOCATION OF MDF ROOM SHOWN ON THIS PLANS. CONTRACTOR SHALL VERIFY NEW RACK LOCATIONS, VERTICAL AND HORIZONTAL CORE LOCATIONS AND REQUIREMENTS AND LOGICAL LOCATIONS FOR NEW CORES AND SLEEVES WHERE REQUIRED.
2. ALL ACTIVE GEAR IN THE MDF SPACE SHALL BE LEFT IN USE AND ACTIVE. CONTRACTOR SHALL TAKE CARE NOT TO DISRUPT THE CURRENT PRODUCTION NETWORK.

KEY NOTES:

1. WALL MOUNTED CLOCK ASSEMBLY (TYP)
2. CEILING MOUNTED 8" SPEAKER ASSEMBLY INTERIOR (TYP)
3. WALL MOUNTED 8" SPEAKER ASSEMBLY INTERIOR (TYP)
4. WALL MOUNTED SPEAKER ASSEMBLY EXTERIOR (TYP)

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LICENSE EXP. DATE: 03-31-2025

S.E.D. CONTROL NUMBER:
48-06-01-06-0-001-026

PROJECT TITLE
RENWICK CENTRAL SCHOOL DISTRICT
C.V. STARR INTERMEDIATE SCHOOL
CAFETORIUM ADDITION, INTERIOR RENOVATIONS AND SITE IMPROVEMENTS
20 FARM TO MARKET ROAD BRENSTER, NY 10509

DRAWING TITLE
GROUND FLOOR PLAN

DATE	ISSUED TO
12-09-2024	BID
03-05-2024	SED SUBMISSION
11-29-2023	D.D. SUBMISSION
08-31-2023	S.D. SUBMISSION

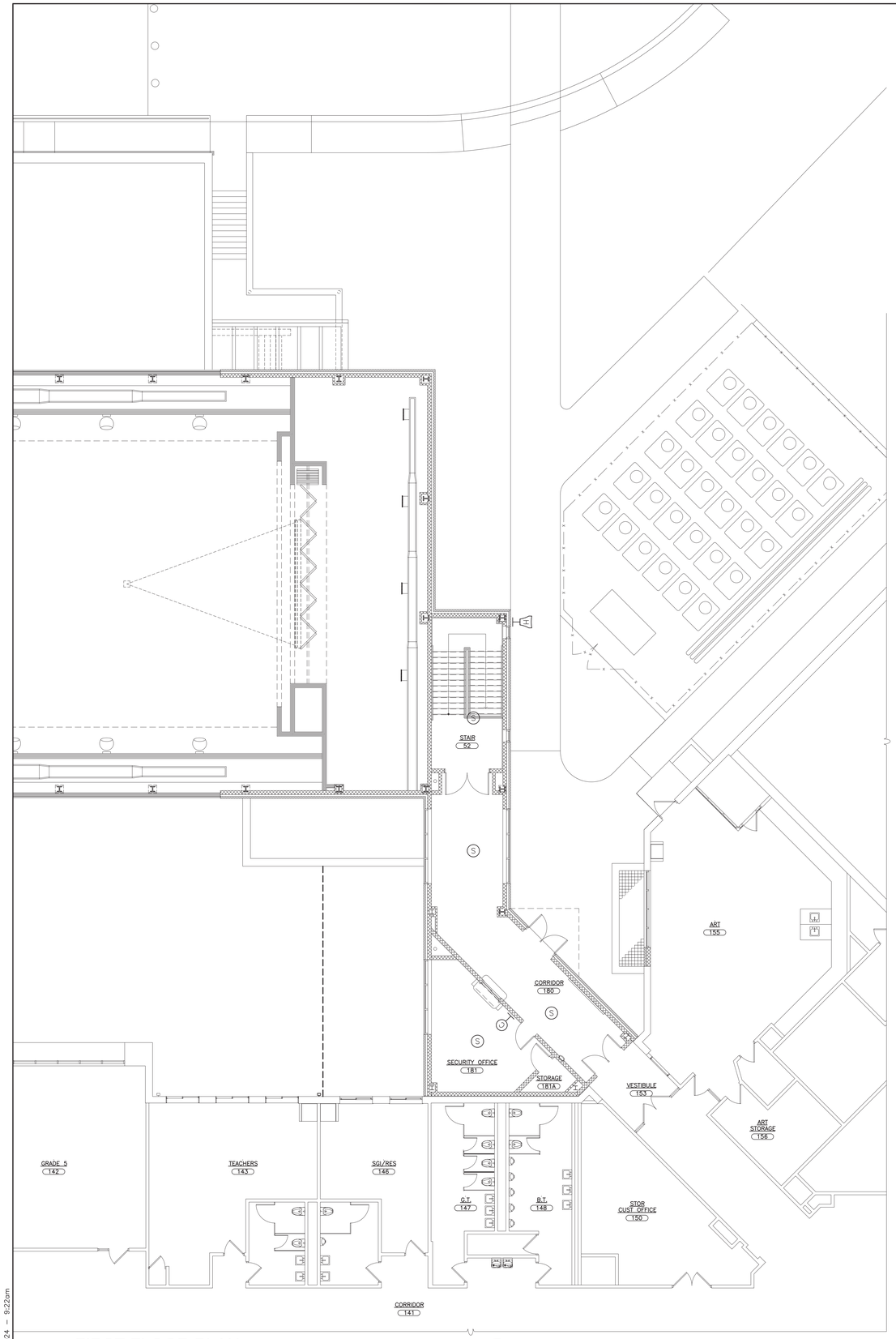
SHEET SIZE: 30"x42"
DRAWING NO.: CVS T101
SCALE: AS NOTED
DRAWN BY:
FILE NO.: 23505.02

1 GROUND FLOOR PLAN
SCALE: 1/8" = 1'-0"

0 2' 4' 8' 16' 32'

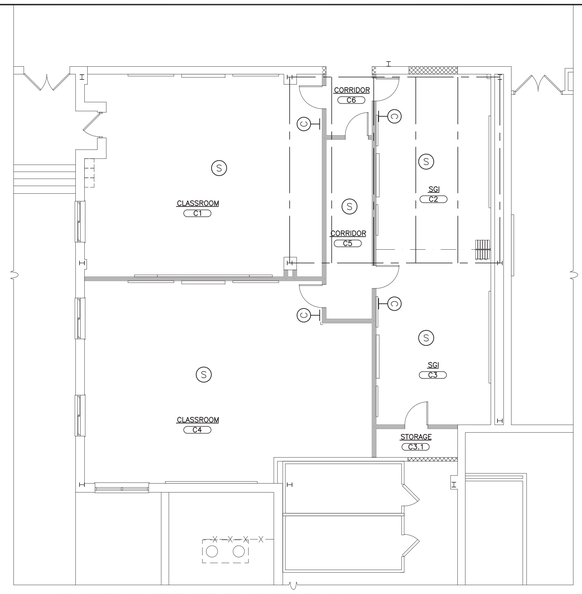
PLOT DATE: December 05, 2024 - 9:21am

FILE: I:\23505.02 CVS Cafetorium & Existing Cafeteria Conversion\DRAWINGS\CURRENT\1-F&D\CVS T101.dwg

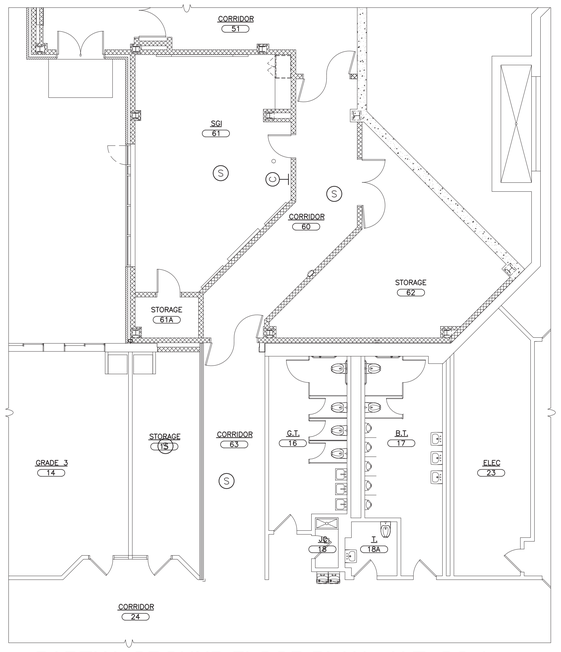


1 FIRST FLOOR PLAN
SCALE: 1/8" = 1'-0"

0 2' 4' 8' 16' 32'



2 PARTIAL FIRST FLOOR PLAN
SCALE: 1/8" = 1'-0"



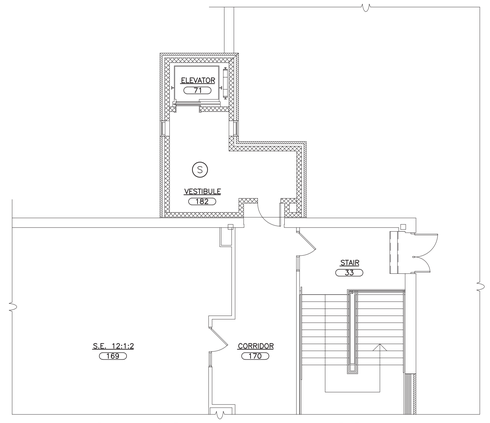
3 PARTIAL GROUND FLOOR PLAN - ALT. GC-1
SCALE: 1/8" = 1'-0"

DRAWING NOTES:

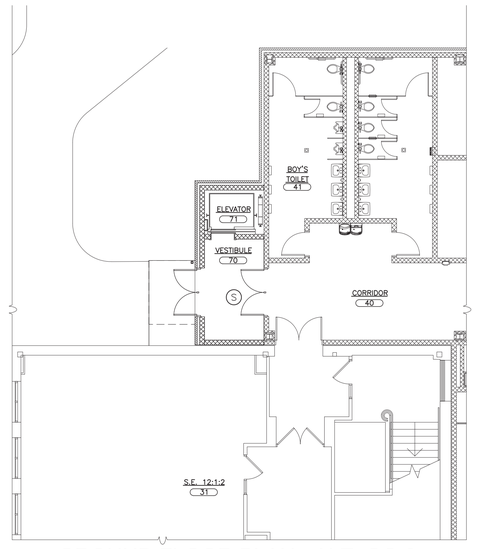
1. PRIOR TO BID SUBMISSION, CONTRACTOR SHALL VISIT SITE TO VERIFY LOCATION OF MDF ROOM SHOWN ON THIS PLANS. CONTRACTOR SHALL VERIFY NEW RACK LOCATIONS, VERTICAL AND HORIZONTAL CORE LOCATIONS AND REQUIREMENTS AND LOGICAL LOCATIONS FOR NEW CORES AND SLEEVES WHERE REQUIRED.
2. ALL ACTIVE GEAR IN THE MDF SPACE SHALL BE LEFT IN USE AND ACTIVE. CONTRACTOR SHALL TAKE CARE NOT TO DISRUPT THE CURRENT PRODUCTION NETWORK.

KEY NOTES:

1. WALL MOUNTED CLOCK ASSEMBLY (TYP)
2. CEILING MOUNTED 8" SPEAKER ASSEMBLY INTERIOR (TYP)
3. WALL MOUNTED 8" SPEAKER ASSEMBLY INTERIOR (TYP)
4. WALL MOUNTED SPEAKER ASSEMBLY EXTERIOR (TYP)



5 FIRST FLOOR PLAN - ALT. GC-2
SCALE: 1/8" = 1'-0"



4 GROUND FLOOR PLAN - ALT. GC-2
SCALE: 1/8" = 1'-0"

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PROJECT TITLE
BREWSTER CENTRAL SCHOOL DISTRICT
C.V. STARR INTERMEDIATE SCHOOL
CAFETORIUM ADDITION, INTERIOR RENOVATIONS & SITE WORK
20 FARM TO MARKET ROAD BREWSTER, NY 10509

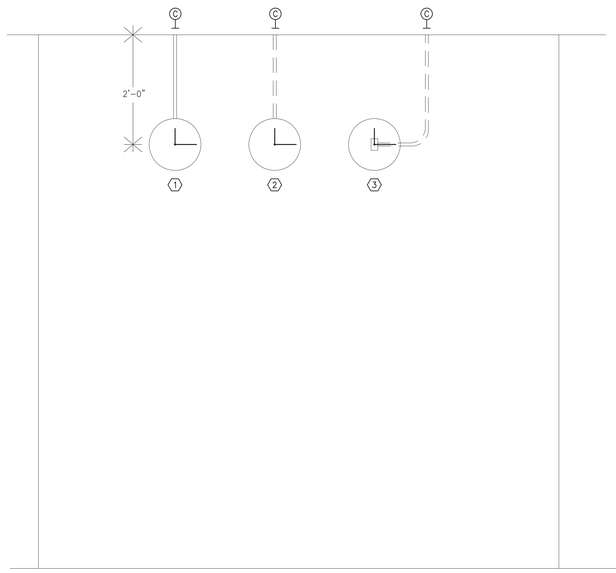
DRAWING TITLE
FIRST FLOOR PLANS, GROUND FLOOR PLAN - ALT. GC-2 & FIRST FLOOR ALTERNATE PLAN

DATE	ISSUED TO
12-09-2024	BID
03-05-2024	SED SUBMISSION
11-29-2023	D.D. SUBMISSION
08-31-2023	S.D. SUBMISSION

SHEET SIZE 30"x42"
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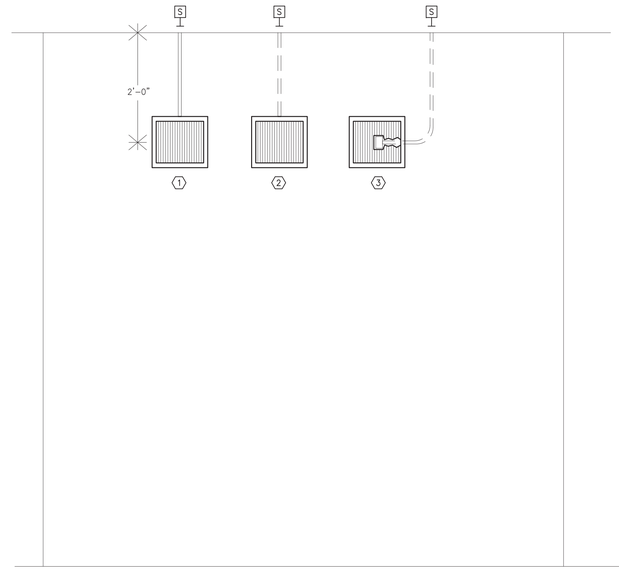


1 ROUND CLOCK NOTES & DETAILS
SCALE: N.T.S.

1. REPRESENTS NEW CLOCK ASSEMBLY WITH NEW WIREMOLD/LATCH DUCT FOR ROUTING CABLE PLANT FROM EXISTING ZONE SERVING IDF TO EACH NEW CLOCK ASSEMBLY
2. REPRESENTS NEW CLOCK ASSEMBLY ATTACHED TO FISHABLE WALL STRUCTURE. PROVIDE RACEWAY CUT IN AND MP1 STYLE BOX ELIMINATOR WHERE POSSIBLE. ROUTE CABLE PLANT FROM EXISTING ZONE SERVING IDF TO EACH NEW CLOCK ASSEMBLY
3. REPRESENTS NEW CLOCK ASSEMBLY ATTACHED TO EXISTING RACEWAY SYSTEM. WHERE POSSIBLE, RE-USE EXISTING RACEWAY AND BACK BOX ASSEMBLY. ROUTE CABLE PLANT FROM EXISTING ZONE SERVING IDF TO EACH NEW CLOCK ASSEMBLY

INSTALLATION NOTES:

1. PROVIDE NEW CLOCKS AS REPRESENTED ON PROGRESS SET OF PLANS. NEW CLOCKS SHALL BE IP BASED ANALOG PRESENTATION WITH BLACK TRIM AND LETTERS WITH WHITE BACKGROUND.
2. PROVIDE NEW CATEGORY 6 UTP/CMP CABLE FROM NEAREST FLOOR SERVING TELECOMMUNICATIONS ROOM TO EACH NEW CLOCK DEVICE. PROVIDE OVERHEAD PATHWAY OF NEW J-HOOK ASSEMBLIES WHERE REQUIRED. IF CAPACITY EXISTS IN CURRENT PATHWAY CONTRACTOR CAN USE EXISTING PROVING CAPACITY POST INSTALL IS STILL AVAILABLE.

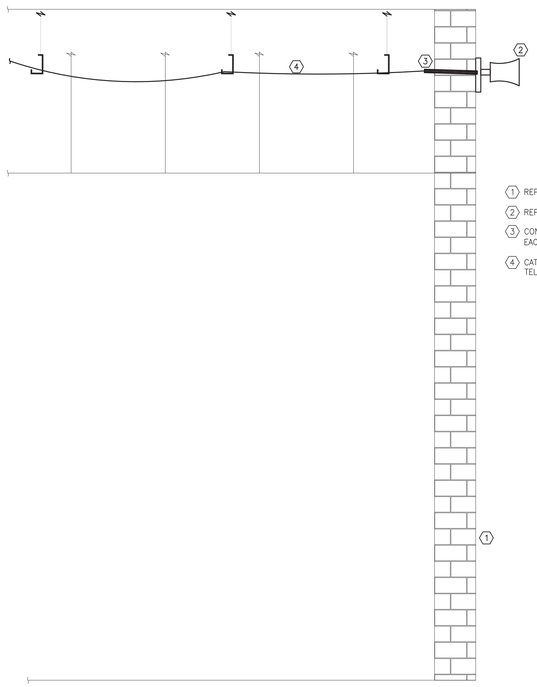


2 WALL MOUNTED SPEAKER NOTES & DETAILS
SCALE: N.T.S.

1. REPRESENTS NEW SPEAKER ASSEMBLY WITH NEW WIREMOLD/LATCH DUCT FOR ROUTING CABLE PLANT FROM EXISTING ZONE SERVING IDF TO EACH NEW SPEAKER ASSEMBLY
2. REPRESENTS NEW ROUND SPEAKER ASSEMBLY ATTACHED TO FISHABLE WALL STRUCTURE. PROVIDE RACEWAY CUT IN AND MP1 STYLE BOX ELIMINATOR WHERE POSSIBLE. ROUTE CABLE PLANT FROM EXISTING ZONE SERVING IDF TO EACH NEW SPEAKER ASSEMBLY
3. REPRESENTS NEW SPEAKER ASSEMBLY ATTACHED TO EXISTING RACEWAY SYSTEM. WHERE POSSIBLE, RE-USE EXISTING RACEWAY AND BACK BOX ASSEMBLY. ROUTE CABLE PLANT FROM EXISTING ZONE SERVING IDF TO EACH NEW SPEAKER ASSEMBLY

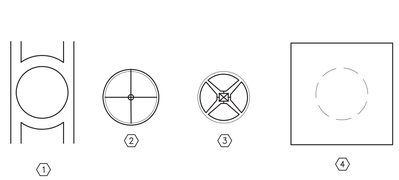
INSTALLATION NOTES:

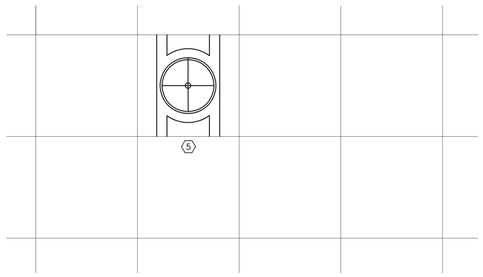
1. PROVIDE NEW SPEAKERS AS REPRESENTED ON PROGRESS SET OF PLANS. NEW SPEAKERS SHALL BE IP BASED. STYLE AND COLOR TBD
2. PROVIDE NEW CATEGORY 6 UTP/CMP CABLE FROM NEAREST FLOOR SERVING TELECOMMUNICATIONS ROOM TO EACH NEW SPEAKER DEVICE. PROVIDE OVERHEAD PATHWAY OF NEW J-HOOK ASSEMBLIES WHERE REQUIRED. IF CAPACITY EXISTS IN CURRENT PATHWAY CONTRACTOR CAN USE EXISTING PROVING CAPACITY POST INSTALL IS STILL AVAILABLE.



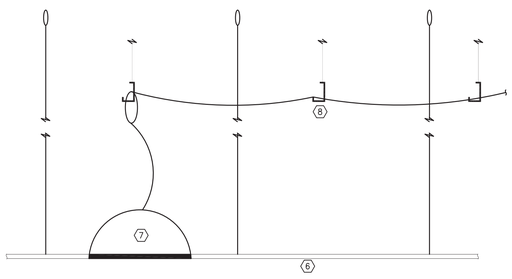
1. REPRESENTS EXTERIOR WALL
2. REPRESENTS EXTERNAL SPEAKER HORN/25/70W TAPPABLE – IP67 RATED ENCLOSURE
3. CONDUIT CHASE, INSTALLED AT SLIGHT ANGLE SLOPING DOWN AND OUTWARD. ASSUME EACH SLEEVE INSTALLED TO BE NO LESS THAN 1" O.D.
4. CATEGORY 6 UTP/CMP FROM EACH HORN TO NEAREST FLOOR SERVING TELECOMMUNICATIONS ROOM.

3 EXTERNAL HORN NOTES & DETAILS
SCALE: N.T.S.





1. REPRESENTS NEW SPEAKER H FRAME FOR CEILING MOUNTED SPEAKER ASSEMBLIES
2. REPRESENTS SPEAKER BAFFLE FOR 8" SPEAKER, ATTACHES TO H FRAME
3. REPRESENTS 25/70W TAPPED SPEAKER
4. REPRESENTS NEW TILE CUT IN EXISTING ACT OR SPLINE CEILING, REFER TO PLANS AND SITE VISIT TO VALIDATE ACT VS SPLICE CEILING CUT IN REQUIREMENTS.
5. REPRESENTS H FRAME AND COMPLETE SPEAKER ASSEMBLY INSTALLED IN CENTER OF ACT OR SPLINE BAY/TILE
6. REPRESENTS T FRAME OR SPLINE FRAME FOR EXISTING ACOUSTICAL CEILING TILE
7. REPRESENTS SECTION CUT OF NEWLY INSTALLED SPEAKER IN ACT/SPLINE CEILING
8. REPRESENTS NEW OR EXISTING J-HOOK PATHWAY, SECURED TO PERMANENT BUILDING STRUCTURE.



4 DROP IN SPEAKER NOTES & DETAILS
SCALE: N.T.S.

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PROJECT TITLE
BREWSTER CENTRAL SCHOOL DISTRICT
C.V. STARR INTERMEDIATE SCHOOL
CAFETORIUM ADDITION, INTERIOR RENOVATIONS AND SITE WORK
20 FARM TO MARKET ROAD BREWSTER, NY 10509

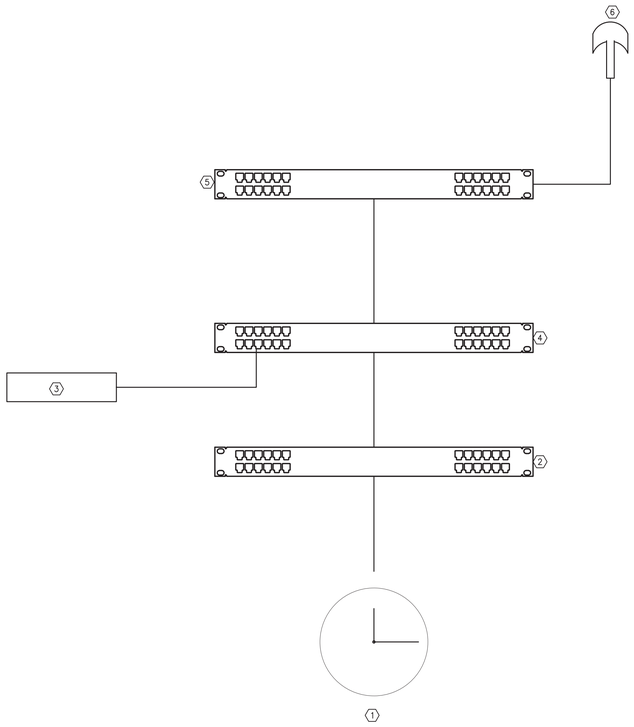
DRAWING TITLE
PUBLIC ADDRESS RISER DIAGRAM & DETAILS

DATE	ISSUED TO
12-09-2024	BID
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11-29-2023	D.D. SUBMISSION
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SCALE AS NOTED
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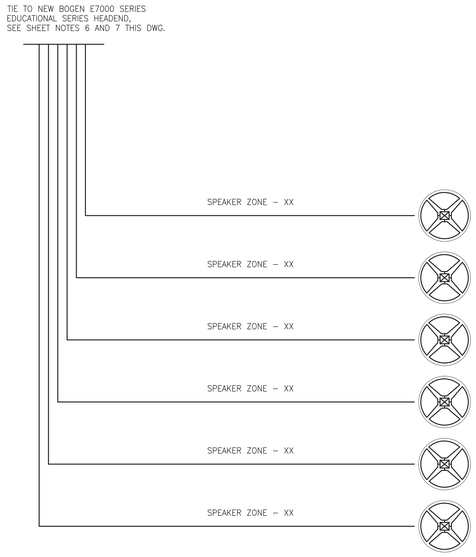


1 BASIC CLOCK SINGLE LINE NOTES AND DETAILS
SCALE: N.T.S.

1. ROUND ANALOG IP CLOCK – REFER TO TECHNICAL SPECIFICATIONS FOR SPEAKER CRITERIA
2. POE SWITCH, PROVIDED AS PART OF THE PROJECT
3. DEDICATED DHCP SERVER/ROUTER
4. DATA SWITCH, PROVIDED AS PART OF THE PROJECT
5. MASTER CLOCK SERVER
6. GPS CABLE AND RECEIVER INSTALLED ON ROOFTOP OR CONVENIENT FREE AIR LOCATION.

SHEET NOTES:

1. CONTRACTOR RESPONSIBLE FOR COMPLETE INTEGRATION, START UP, TESTING AND VALIDATION OF A COMPLETE SPEAKER SYSTEM INCLUDING ZONING.
2. CONTRACTOR SHALL WORK WITH BCSD TO PROVIDE REQUIRED SPEAKER ZONES FOR EACH SCHOOL. ZONES WILL HAVE BUT NOT BE LIMITED TO THE FOLLOWING ZONES:
   A. ALL INDIVIDUAL CLASSROOMS AND ROOMS WITH SPEAKERS
   B. INDIVIDUAL HALLWAYS
   C. INDIVIDUAL INTERNAL AREAS AND SECTIONAL AREAS OF THE SCHOOL
   D. EXTERNAL AREAS INCLUDING COURTYARDS, PLAYGROUNDS AND AREAS AROUND SCHOOL THAT NEED TO BE ZONED. PRIOR TO SYSTEM ORDER, CONTRACTOR SHALL COORDINATE A ZONING MEETING WITH EACH SCHOOLS STAFF TO CLEARLY UNDERSTAND AND PLAN PLAN FOR THE INTEGRATION OF THE ZONING SCHEME PER SCHOOL. ZONING IS A DIRECTLY RELATED SCOPE ITEM FOR THIS PROJECT, ALL ACTIVE AND PASSIVE GEAR INCLUDING PROGRAMMING AND TRAINING AND TURNOVER SHALL BE INCLUDED IN THE CONTRACTORS BID RESPONSE.



2 BASIC SPEAKER SINGLE LINE NOTES AND DETAILS
SCALE: N.T.S.

DETAIL NOTES:

CONTRACTOR RESPONSIBLE FOR COMPLETE INTEGRATION, START UP, TESTING AND VALIDATION OF A COMPLETE SPEAKER SYSTEM INCLUDING ZONING.

CONTRACTOR SHALL WORK WITH BCSD TO PROVIDE REQUIRED SPEAKER ZONES FOR EACH SCHOOL. ZONES WILL HAVE BUT NOT BE LIMITED TO THE FOLLOWING ZONES:
A. ALL INDIVIDUAL CLASSROOMS AND ROOMS WITH SPEAKERS
B. INDIVIDUAL HALLWAYS
C. INDIVIDUAL INTERNAL AREAS AND SECTIONAL AREAS OF THE SCHOOL
D. EXTERNAL AREAS INCLUDING COURTYARDS, PLAYGROUNDS AND AREAS AROUND SCHOOL THAT NEED TO BE ZONED. PRIOR TO SYSTEM ORDER, CONTRACTOR SHALL COORDINATE A ZONING MEETING WITH EACH SCHOOLS STAFF TO CLEARLY UNDERSTAND AND PLAN PLAN FOR THE INTEGRATION OF THE ZONING SCHEME PER SCHOOL. ZONING IS A DIRECTLY RELATED SCOPE ITEM FOR THIS PROJECT, ALL ACTIVE AND PASSIVE GEAR INCLUDING PROGRAMMING AND TRAINING AND TURNOVER SHALL BE INCLUDED IN THE CONTRACTORS BID RESPONSE.

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S.E.D. CONTROL NUMBER:
48-06-01-06-0-001-026

PROJECT TITLE:
BREWSTER CENTRAL SCHOOL DISTRICT
C.V. STARR INTERMEDIATE SCHOOL
CAFETORIUM ADDITION, INTERIOR
RENOVATIONS AND SITE WORK
20 FARM TO MARKET ROAD BREWSTER, NY 10509

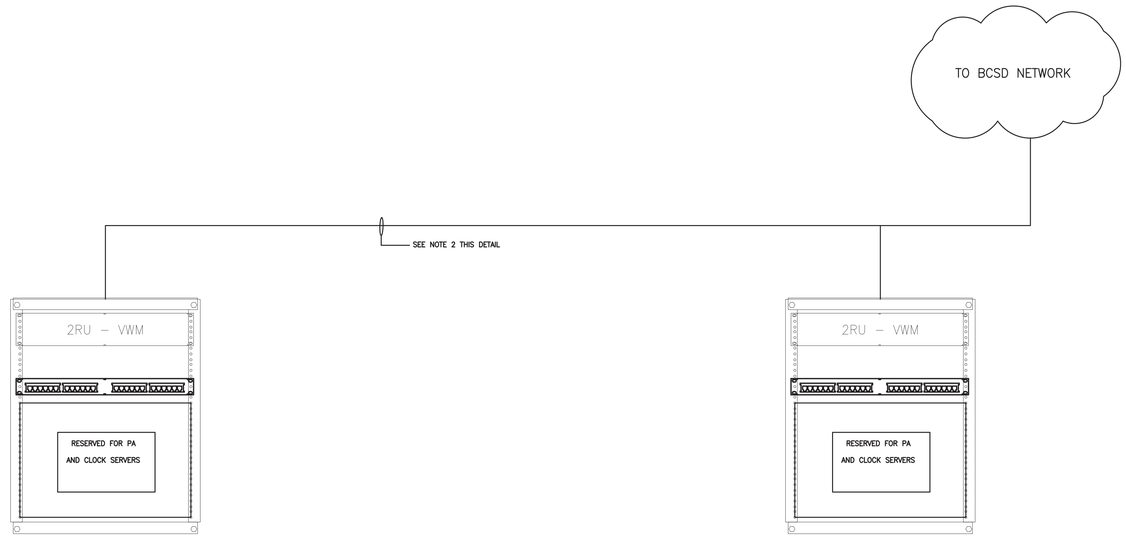
DRAWING TITLE:
PUBLIC ADDRESS RISER DIAGRAM & DETAILS

DATE	ISSUED TO
12-09-2024	BID
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08-31-2023	S.D. SUBMISSION

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SCALE: AS NOTED
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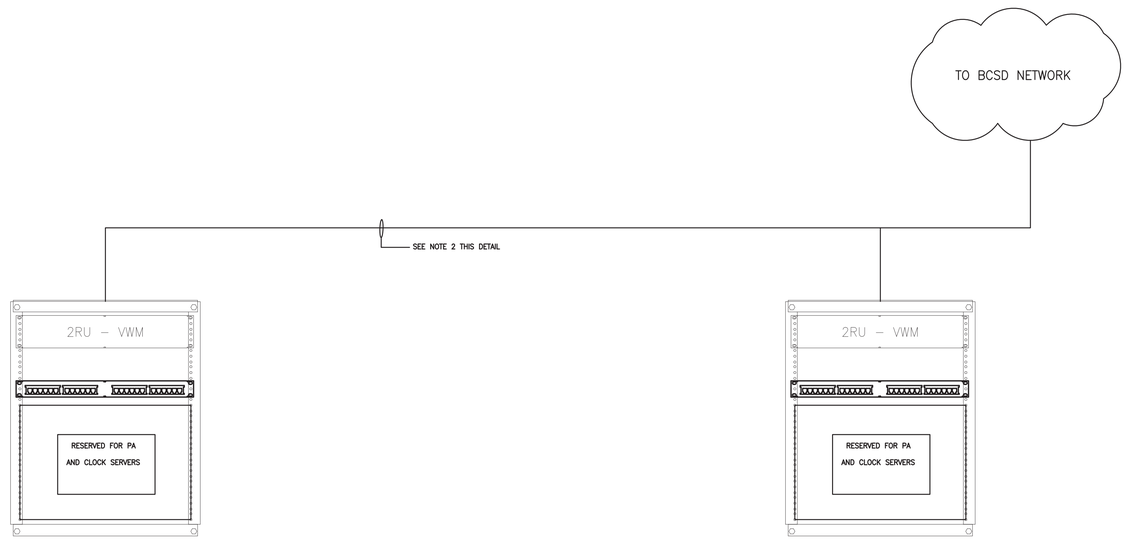
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1 GROUND FLOOR IDF RACK ELEVATION
SCALE: N.T.S.

2 FIRST FLOOR IDF RACK ELEVATION
SCALE: N.T.S.



SEELY AND GREENVILLE IDF NOTES

1. PRIOR TO BID SUBMISSION, CONTRACTOR SHALL VISIT EACH SITE TO VALIDATE PROJECT APPROACH AND TO VALIDATE RETURNED BID SUBMISSION. CONTRACTOR IS RESPONSIBLE FOR A OOMPLETE, TUNED, TESTED AND BALANCED pa AND CLOCK SYSTEM. CONTRACTOR SHALL VISIT SITE WITH PLANS TO VALIDATE SCOPE OF WORK REQUIRED FROM THEIR END TO FULLY COMPLETE AND EXECUTE SCOPE OF WORK.
2. CONTRACTOR SHALL PROVIDE SIX (6) CATEGORY 6A UTP/COMP FROM EACH IDF TO EACH IDF WITHIN BOTH SCHOOLS. CONTRACTOR SHALL PROVIDE CLEAN, OBSTRUCTION FREE PATHWAY BETWEEN EACH IDF FOR BOTH TIE CABLE PLANT AS WELL AS NEW CABLE PLANT TO SUPPORT THE END CLOCK AND SPEAKER DEVICES. CONTRACTOR OWNS ALL NEW CORES, SLEEVES, CONDUIT, BACKBOXES, JUNCTION BOXES, VERTICAL AND HORIZONTAL PENETRATIONS WITH SLEEVES AND REQUIRED INFRASTRUCTURE SUPPORT FROM POINT TO POINT FOR EACH CABLE INSTALLE FOR THE PROJECT.
3. THE BASIS OF THE DESIGN FOR THE PROJECT WILL BE TO PROVIDE NEW WALL MOUNTED 12 RACK UNIT (RU), MIDDLE ATLANTIC MODEL DWR-12-17PD OR EQUAL, WITHIN EACH EXISITNG IDF ROOM TO HOUSE THE NEW PA AND CLOCK SYSTEM WIRING. PROVIDE HORIZONTAL POWER STRIP WITH A MINIMUM OF 12 NEMA 5-20 PLUGS
4. NEW RACK WILL CONTAIN THE NEW CATEGORY 6 PATCH PANELS AS WELL AS THE HORIZONTAL WIRE MANAGERS.
5. VALIDATE LOCATION OF RACK WITH DISTRICT STAFF AND NETWORKING TEAM PRIOR TO AFFIXING TO WALL. DO NOT INSTALL ANY RACKS UNTIL FINAL LOCATION IS REVIEWED AND APPROVED.

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PROJECT TITLE
BREWSTER CENTRAL SCHOOL DISTRICT
C.V. STARR INTERMEDIATE SCHOOL
CAFETORIUM ADDITION INTERIOR
RENOVATIONS & RELATED WORK
29 FARM TO MARKET ROAD BREWSTER, NY 10509

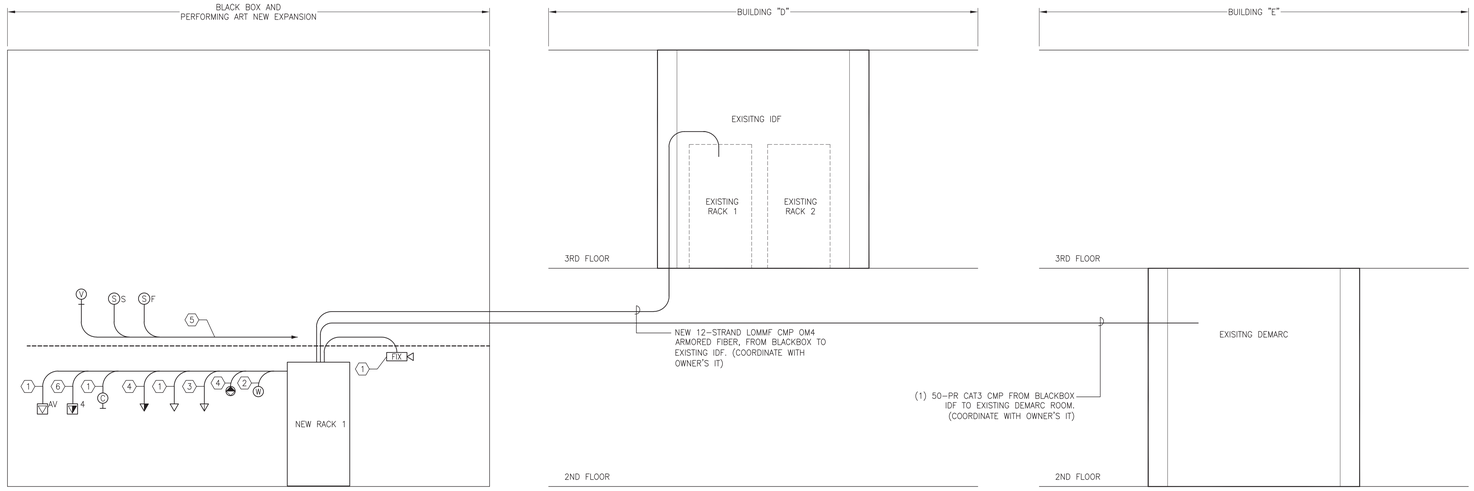
DRAWING TITLE
CLOCK RISER DIAGRAM & DETAILS

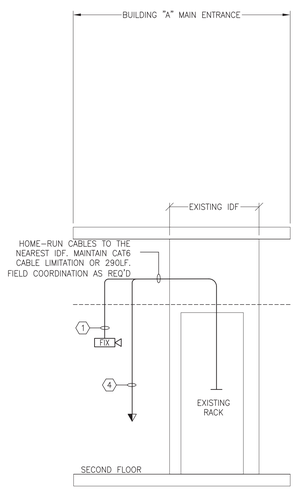
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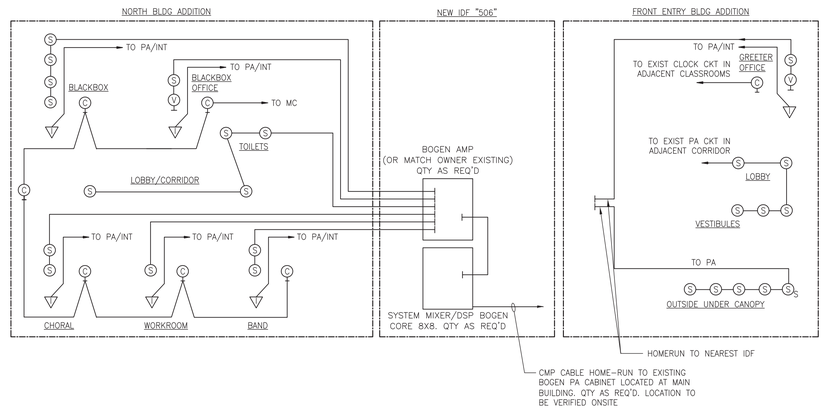
1 SCHEMATIC CABLE DIAGRAM
SCALE: NTS

SINGLE LINE KEY NOTES:

1. ONE (1) CAT6 4-PAIR PLENUM-RATED UTP CABLE TO EACH IP SECURITY CAMERA, WALL PHONE & DISPLAY LOCATION. HOMERUN TO IDF ROOM & TERMINATE ON THE APPROPRIATE CAT6 PATCH PANEL FOR DATA CONNECTIONS ON RACK (TYPICAL).
2. TWO (2) CAT6A 4-PAIR PLENUM-RATED UTP CABLE TO EACH WIRELESS ACCESS POINT & WORK STATION LOCATIONS. HOMERUN TO IDF ROOM & TERMINATE ON THE APPROPRIATE CAT6A PATCH PANEL FOR DATA CONNECTIONS ON RACK (TYPICAL).
3. ONE (1) RG6 PLENUM-RATED QUAD SHIELDED CABLE FOR THE CABLE BOX FEED HOME RUN TO THE TAP BOX (LOCATION TO BE DETERMINED). LEAVE 20' SLACK COIL FOR CLIENT TERMINATION ON WALL FIELD . (IF CABLE RUN DISTANCE IS BEYOND 150' RG11 CABLE MUST BE USED).
4. TWO (2) CAT6 4-PAIR PLENUM-RATED UTP CABLE TO EACH WORKSTATION & CEILING OUTET. HOMERUN TO IDF ROOM & TERMINATE ON THE APPROPRIATE CAT6 PATCH PANEL FOR DATA CONNECTIONS ON RACK (TYPICAL).
5. 2-CONDUCTOR SHIELDED PLENUM-RATED CABLE FOR SPEAKER SYSTEMS. SEE DETAIL 2 ON T-200 FOR RISER DIAGRAM. QTY AS REQUIRED (TYPICAL)
6. FOUR (4) CAT6 4-PAIR PLENUM-RATED UTP CABLE TO EACH FLOOR BOX OUTET. HOMERUN TO IDF ROOM & TERMINATE ON THE APPROPRIATE CAT6 PATCH PANEL FOR DATA CONNECTIONS ON RACK (TYPICAL).

SINGLE LINE NOTES:

1. ALL PENETRATIONS OF ANY NEWLY INSTALLED OR EXISTING SLEEVE MUST BE RESEALED AND FIRE STOPPED.
2. SEAL ALL PENETRATIONS THROUGH FIRE RATED WALLS, FLOORS AND WALLS CREATED BY OR MADE ON THE BEHALF OF THE CONTRACTOR SO THAT THE ORIGINAL FIRE RATING OF THE FLOOR OR WALL IS MAINTAINED AS REQUIRED BY ARTICLE 300-21 OF THE NATIONAL ELECTRIC CODE.
3. USE SEALANT MATERIAL THAT HAS PASSED FIRE EXPOSURE TESTING IN ACCORDANCE WITH STANDARD TIME-TEMPERATURE CURVE IN THE STANDARD, UL, ASTM E 119, AND NFPA 251 AND THE HOSE STREAM TEST IN ACCORDANCE WITH UL 10B.
5. REFER TO FLOOR PLAN FOR QUANTITIES OF EACH OUTLET TYPE.

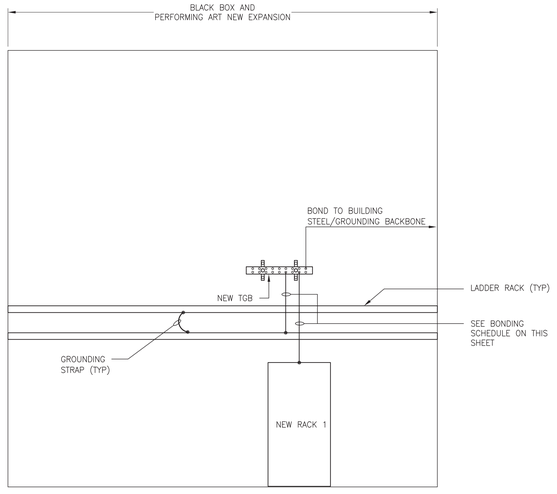


2 PUBLIC ADDRESS/INTERCOM/CLOCK RISER DIAGRAM
SCALE: NTS

SECURITY CABLE LEGEND			
SYMBOL	DESCRIPTION		DEVICE
A-COMPOSITE CABLE (PLENUM)	A1	3 TWISTED PAIR #22AWG SHIELDED - CARD READER	CR
	A2	2-CONDUCTOR #22AWG UNSHIELDED - DOOR CONTACT(S)	DC
	A3	4-CONDUCTOR #22AWG UNSHIELDED - REX ; MOTION DETECTOR / PUSH BUTTON	RX
	A4	4-CONDUCTOR #18AWG UNSHIELDED - ELEC LOCKSET / ELEC STRIKE / MAGNETIC LOCK	EL ES ML
B	3 TWISTED PAIR #22AWG SHIELDED - CARD READER		CR
C	2C #18AWG TW, SH / STATUS - CONTROL; DOOR CONTACT(S) / DURESS BUTTON		DC DB
D	4C #18AWG TW, SH - CONTROL; MOTION DETECTOR / GLASS BREAK / LOCAL ALARM / KEYSWITCH		MD GB LA KS
E	CAT6 CABLE UTP - CAMERA / CONTROLLER PANELS / INTERCOM STATIONS		CAM ACP

SECURITY NOTES:

1. 1. REFER TO FLOOR PLANS FOR EXACT QUANTITIES AND LOCATIONS OF DEVICES.
2. ALL 4PR CATEGORY CABLE TERMINATIONS SHALL BE T568B.
3. ALL PENETRATIONS OF FIRE-RATED BARRIERS SHALL BE FIRE-STOPPED AFTER CABLE INSTALLATION.
4. LOCK TYPE TBD LK
5. REQUEST TO EXIT TYPE TBD RX



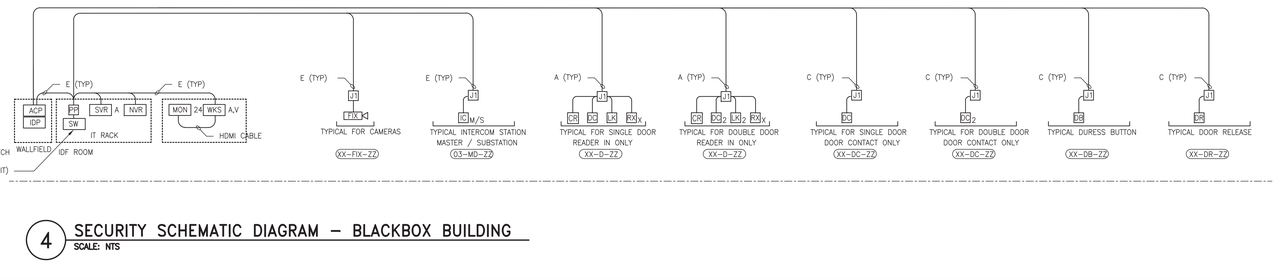
3 SCHEMATIC GROUNDING/BONDING DIAGRAM
SCALE: NTS

GROUNDING NOTES:

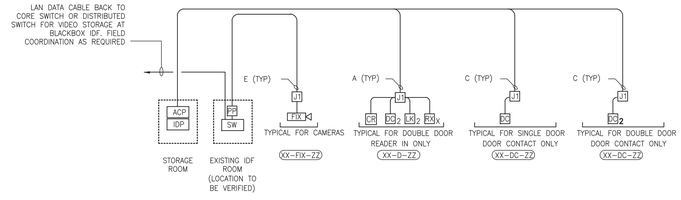
1. REFER TO COVER SHEET FOR GENERAL GROUNDING & BONDING NOTES.
2. ALL RACKS, CABINETS, LADDER RACK, CONDUITS, CABLE TRAY, MECHANICAL PATHWAYS & ARMORED CABLE SHEATHS SHALL BE PROPERLY BONDED TO THE TELECOMMUNICATIONS GROUNDING BUS BAR. BONDING SHALL BE DONE BY THE CONTRACTOR INSTALLING THE EQUIPMENT/COMPONENTS
3. TELECOMMUNICATIONS BONDING CONDUCTOR TO SLEEVES, CONDUITS & EZ-PATH INSIDE IDF/BDF- QUANTITY AS REQUIRED. SIZE PER BONDING CONDUCTOR SIZING SCHEDULE (TYPICAL) (BY IT CONTRACTOR)
4. PROVIDE BONDING/JUMPER FOR ALL LADDER RACK T-SECTIONS, CROSSES, AND CORNERS - BY INSTALLING CONTRACTOR.
5. GROUNDING/BONDING PER REGULATORY REFERENCES:
   - TIA-942 TELECOM INFRASTRUCTURE STANDARD FOR DATA CENTERS
   - ANSI J-STD-607-C GENERIC TELECOMMUNICATIONS BONDING AND GROUNDING (EARTHING) FOR CUSTOMER PREMISES
   - TIA/EIA-606 ADMINISTRATION STANDARD FOR THE TELECOMMUNICATIONS
   - IEEE STD 1100 IEEE RECOMMEND PRACTICE FOR POWERING AND GROUNDING ELECTRONIC EQUIPMENT
   - NFPA-70 NATIONAL ELECTRIC CODE (NEC)

GROUNDING & BONDING CONDUCTOR SIZING	
CONDUCTOR LENGTH (FEET)	SIZE (AWG)
LESS THAN 13	#6 AWG
14 TO 20 FEET	#4 AWG
21 - 26 FEET	#3 AWG
27 - 33 FEET	#2 AWG
34 - 41 FEET	#1 AWG
42 - 52 FEET	#1/0 AWG
43 - 66 FEET	#2/0 AWG
GREATER THAN 66 FEET	##/0 AWG***

*** SIZING BONDING CONDUCTOR FOR DISTANCE GREATER THAN 66 FEET SHOULD BE CALCULATED BY THE ELECTRICAL ENGINEER & CONTRACTOR FOR SIZE THAT MEETS THE REQUIREMENTS OF THE APPLICABLE ELECTRICAL CODE FOR THE SITE. STANDARD SUCH AS ANSI/TIA 607-C, ANSI/NECA/BICSI-607 PROVIDE ADDITIONAL GUIDANCE FOR SPECIFIC BONDING CONDUCTOR.



4 SECURITY SCHEMATIC DIAGRAM - BLACKBOX BUILDING
SCALE: NTS



5 SECURITY SCHEMATIC DIAGRAM - BUILDING "A" MAIN ENTRANCE
SCALE: NTS

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48-06-01-06-0-001-026

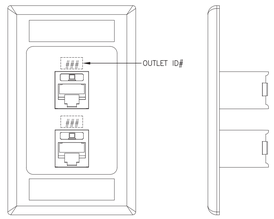
PROJECT TITLE
BREWSTER CENTRAL SCHOOL DISTRICT
C.V. STARR INTERMEDIATE SCHOOL
CAFETORIUM ADDITION, INTERIOR RENOVATIONS AND SITE WORK
20 FARM TO MARKET ROAD BREWSTER, NY 10509

DRAWING TITLE
CLOCK RISER DIAGRAM & DETAILS

DATE	ISSUED TO
12-09-2024	BID
03-05-2024	SED SUBMISSION
11-29-2023	D.D. SUBMISSION
08-31-2023	S.D. SUBMISSION

SHEET SIZE 30"x42"
DRAWING NO. CVS T203
SCALE AS NOTED
DRAWN BY
FILE NO. 23505.02

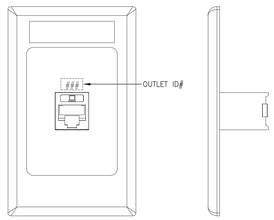
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▽XX STANDARD 2-PORT WALL-MOUNT OUTLET

1. F&I TWO (2) 4-PAIR UTP PLENUM-RATED CABLES TERMINATE ON 8-PIN MODULAR JACKS AT WORKSTATION.
2. TERMINATE CABLES WITH TIA/EIA T568B PINNING.
3. TERMINATE DATA CABLE IN TELECOM ROOM (IDF) ON PATCH PANELS.
4. PROVIDE PRINTED LABELS. HANDWRITTEN LABELS ARE UNACCEPTABLE.
5. WHITE DATA JACK "OR MATCHING ELECTRICAL OUTLET" SHALL BE INSTALLED AT WORKSTATION AND OFFICE SPACES.
6. "XX" INDICATES NUMBER OF PORTS/CABLES

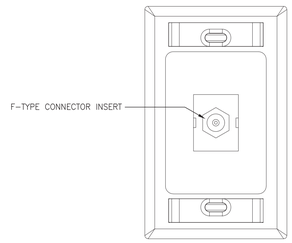
1 2-PORT STANDARD FACEPLATE



▽XX ▼XX STANDARD 1-PORT WALL MOUNT OUTLET

1. F&I ONE (1) 4-PAIR UTP PLENUM-RATED CABLE TERMINATE ON 8-PIN MODULAR JACKS AT WORKSTATION.
2. TERMINATE CABLES WITH TIA/EIA T568B PINNING.
3. TERMINATE CABLE IN TELECOM ROOM (IDF) ON PATCH PANEL.
4. PROVIDE PRINTED LABELS. HANDWRITTEN LABELS ARE UNACCEPTABLE.
5. WHITE DATA JACK "OR MATCHING ELECTRICAL OUTLET" SHALL BE INSTALLED AT WALL STATION.
6. "XX" INDICATES NUMBER OF PORT/CABLE

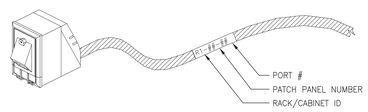
2 1-PORT STANDARD FACEPLATE



TV X STANDARD TV OUTLET

1. F&I ONE (1) QUAD SHIELDED PLENUM-RATED COAXIAL CABLE TERMINATE ON F-TYPE CONNECTOR.
1. TERMINATE CABLE ON F-TYPE CONNECTOR INSIDE IDF WITH 20 FEET LONG SLACK FUTURE RELOCATION BY PROVIDER.
2. PROVIDE PRINTED LABELS. HANDWRITTEN LABELS ARE UNACCEPTABLE.
3. WHITE DATA JACK "OR MATCHING ELECTRICAL OUTLET" SHALL BE INSTALLED AT WALL STATION.
4. "XX" INDICATES NUMBER OF PORT/CABLE

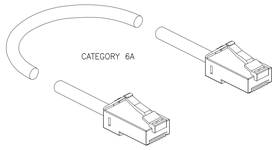
3 CATV FACEPLATE



NOTES:

1. PROVIDE COMPUTER GENERATED LABEL 6 INCHES FROM TERMINATION AT BOTH ENDS. HANDWRITTEN LABELS SHALL BE CONSIDERED UNACCEPTABLE.
2. MAINTAIN PAIR TWIST UP TO FINAL TERMINATION POINT. CABLE JACKET SHALL EXTEND TO WITHIN ½" OF TERMINATION POINT.
3. JACKS AND OTHER TERMINATION DEVICES SHALL BE INSTALLED INCLUSIVE OF ALL HARDWARE INCLUDING, BUT NOT LIMITED TO DUST CAPS, ICONS, ETC.

4 COPPER CABLE LABELING



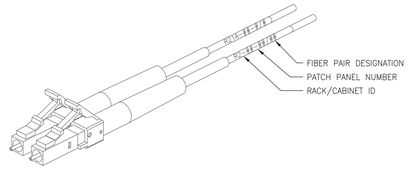
FURNISH & INSTALL FOLLOWING CORDS:

COLOR	LENGTH 5'	7'	10'	15'	
BLUE					} QUANTITY
WHITE					

NOTES.

1. CONTRACTOR SHALL CONFIRM ALL FINAL QUANTITIES, COLOR AND LENGTHS WITH CLIENT PRIOR TO PURCHASING ANY PATCHING.
2. ALL CORDS SHALL BE CATEGORY 6A CORDS, WITH SNAGLESS PLUGS.
3. PROVIDE 7' PATCH CORD AT WORKSTATION, OFFICE AND PRINTER. LENGTH AS REQUIRED INSIDE IDF AND SERVER ROOM. QTY AS REQUIRED

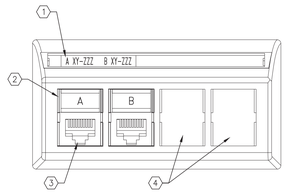
5 PATCH CORD LABELING & QUANTITY



NOTES:

1. PROVIDE COMPUTER GENERATED LABEL 6 INCHES FROM TERMINATION AT BOTH ENDS. HANDWRITTEN LABELS SHALL BE CONSIDERED UNACCEPTABLE.
2. JACKS AND OTHER TERMINATION DEVICES SHALL BE INSTALLED INCLUSIVE OF ALL HARDWARE INCLUDING, BUT NOT LIMITED TO DUST CAPS, ICONS, ETC.

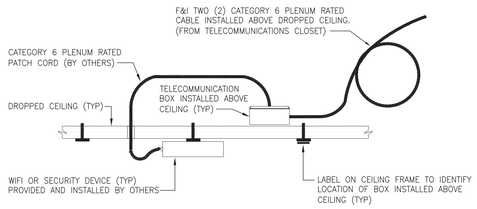
6 FIBER CABLE LABELING



KEY NOTES:

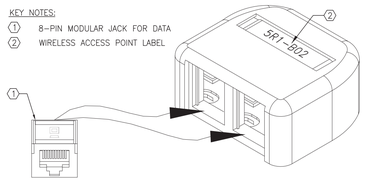
1. OUTLET ID.
2. PORT DESIGNATION TAB.
3. 8-PIN MODULAR.
4. BLANK INSERT.

7 2-PORT DATA/VOICE MOUNTED IN FURNITURE



Ⓦ OR

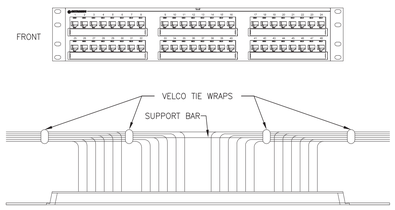
8 TYPICAL WAP'S & SECURITY CABLE CEILING INSTALLATION



Ⓦ WIRELESS ACCESS POINT (WAP) OUTLET

1. F&I TWO (2) 4-PAIR CAT6A UTP PLENUM-RATED CABLE TERMINATED ON AN 8-PIN MODULAR JACK.
2. TERMINATE CABLE WITH TIA/EIA T568B PINNING.
3. TERMINATE CABLE ON DEDICATED WALLPHONE/WIRELESS ACCESS POINT PATCH PANEL.
4. PROVIDE COMPUTER GENERATED LABELS WITH 1/4" HIGH BLACK TEXT. HANDWRITTEN LABELS ARE UNACCEPTABLE.
5. PROVIDE TEMPORARY, REMOVABLE LABEL ON CEILING TILE/GRID TO IDENTIFYING OUTLET LOCATION WHEN LOCATED ABOVE HUNG CEILING.
6. INSTALL OWNER'S MOUNTING BRACKETS.

9 TYPICAL ACCESS POINT OUTLET DETAIL



STATIONS CABLING IN TELECOM ROOM (IDF):

1. UTILIZE ALL SUPPORT DEVICES PROVIDED WITH PATCH CABLE.
2. UTILIZE VELCO TIE WRAPS TO SECURE WIRING TO SUPPORT BAR. PLASTIC CABLE TIES WILL NOT BE ACCEPTED.
3. INSTALL WHITE NUMBERED ICONS AS SHOWN ON PATCH PANEL. NUMBERED ICONS COINCIDE WITH ICONS ON FACEPLATES.
4. NEW PATCH PANELS SHALL BE CATEGORY 6A WITH 8-PORT MODULES.

10 FLAT PATCH PANEL LABELING

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LICENSE EXP. DATE: 03-31-2025

S.E.D. CONTROL NUMBER:
48-06-01-06-0-001-026

PROJECT TITLE
REMSEN CENTRAL SCHOOL DISTRICT
C.V. STARR INTERMEDIATE SCHOOL
CAFETORIUM ADDITION INTERIOR
RENOVATIONS AND ALTERATIONS
20 FARM TO MARKET ROAD BREWSTER, NY 10509

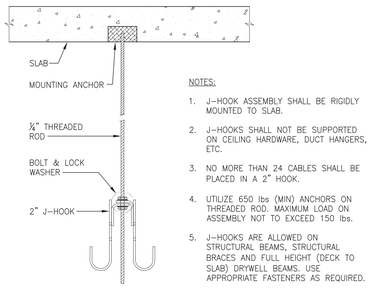
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03-05-2024	SED SUBMISSION
11-29-2023	D.D. SUBMISSION
06-31-2023	S.D. SUBMISSION

SHEET SIZE 30"x42"
DRAWING NO. CVS T300
SCALE AS NOTED
DRAWN BY
FILE NO. 23505.02

PLOT DATE: December 05, 2024 - 9:23am

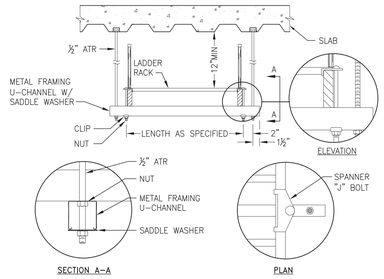
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NOTES:

1. J-HOOK ASSEMBLY SHALL BE RIGIDLY MOUNTED TO SLAB.
2. J-HOOKS SHALL NOT BE SUPPORTED ON CEILING HARDWARE, DUCT HANGERS, ETC.
3. NO MORE THAN 24 CABLES SHALL BE PLACED IN A 2" HOOK.
4. UTILIZE 650 lbs (MIN) ANCHORS ON THREADED ROD. MAXIMUM LOAD ON ASSEMBLY NOT TO EXCEED 150 lbs.
5. J-HOOKS ARE ALLOWED ON STRUCTURAL BEAMS, STRUCTURAL BRACES AND FULL HEIGHT (DECK TO SLAB) DRYWELL BEAMS. USE APPROPRIATE FASTENERS AS REQUIRED.
6. UTILIZE ERICO CABLECAT OR EQUAL J-HOOKS.

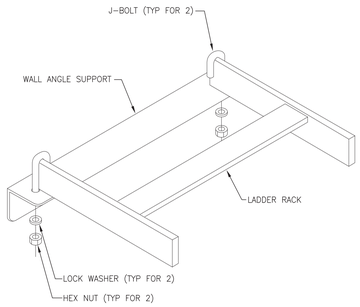
1 J-HOOK



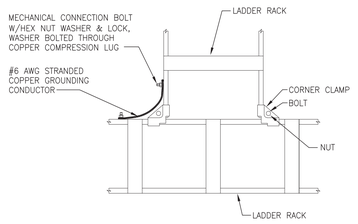
NOTES:

1. PROVIDE CONCRETE ANCHORS SIMILAR TO HILTI-KNICK BOLT OR SERIES HIDI OR APPROVED EQUAL. INSTALLATION SHALL BE IN ACCORDANCE WITH MFR RECOMMENDATIONS.

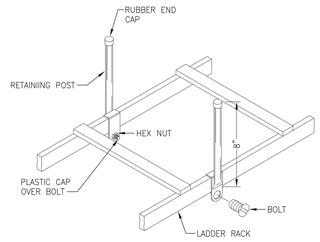
2 LADDER RACK HANGING



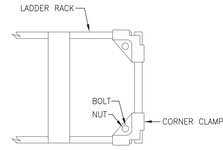
3 LADDER RACK WALL BRACKET



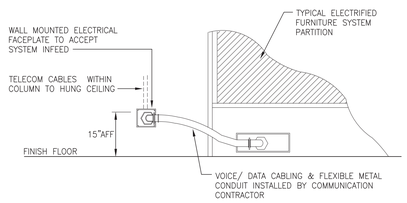
4 LADDER RACK TEE CONNECTION



5 LADDER RACK RETAINING BAR



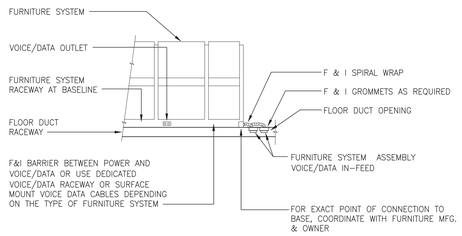
6 LADDER RACK TERMINATION



NOTES:

1. THIS IS A TYPICAL FURNITURE SYSTEM DETAIL AND IS INTENDED TO INDICATE GENERAL REQUIREMENTS ONLY. REFER TO MANUFACTURER'S INSTALLATION DETAILS FOR SPECIFIC FURNITURE SYSTEM INFORMATION.
2. WALL PLATE FINISHES PER OWNER.

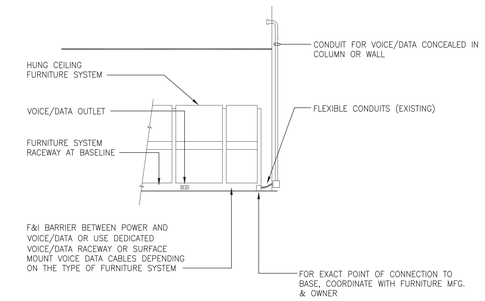
7 CABLE TO FURNITURE BASE WALL ENTRY



NOTES:

1. THIS IS A TYPICAL FURNITURE SYSTEM DETAIL AND IS INTENDED TO INDICATE GENERAL REQUIREMENTS ONLY. REFER TO MANUFACTURER'S INSTALLATION DETAILS FOR SPECIFIC FURNITURE SYSTEM INFORMATION.
2. WALL PLATE FINISHES PER OWNER.

8 CABLE TO FURNITURE BASE IN FLOOR



NOTES:

1. THIS IS A TYPICAL FURNITURE SYSTEM DETAIL AND IS INTENDED TO INDICATE GENERAL REQUIREMENTS ONLY. REFER TO MANUFACTURER'S INSTALLATION DETAILS FOR SPECIFIC FURNITURE SYSTEM INFORMATION.
2. WALL PLATE FINISHES PER OWNER.

9 CABLE TO FURNITURE BASE WALL/COLUMN

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LICENSE EXP. DATE: 03-31-2025

S.E.D. CONTROL NUMBER:
48-06-01-06-0-001-026

PROJECT TITLE
BREWSTER CENTRAL SCHOOL DISTRICT
C.V. STARR INTERMEDIATE SCHOOL
CAFETORIUM ADDITION IN TERROR
RENOVATIONS AND ALTERATIONS TO
20 FARM TO MARKET ROAD BREWSTER, NY 10509

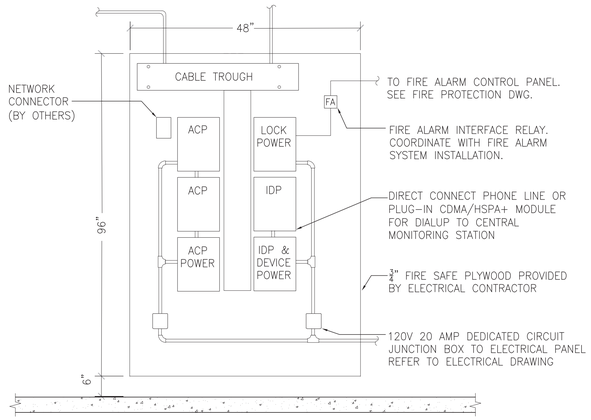
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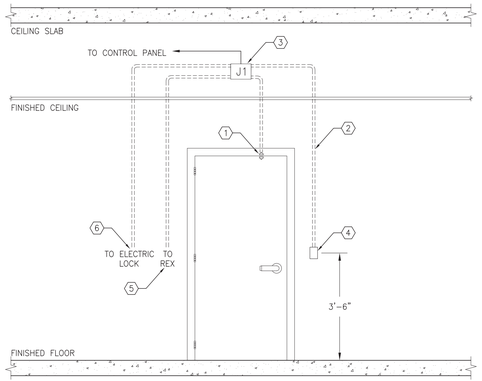
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PLOT DATE: December 05, 2024 - 9:24am

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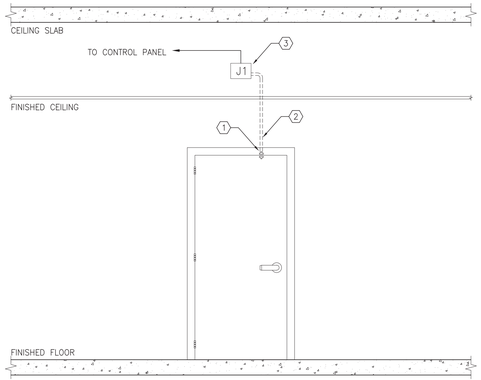


01 ACCESS CONTROL/INTRUSION DETECTION WALLFIELD ELEVATION VIEW
SCALE: NTS



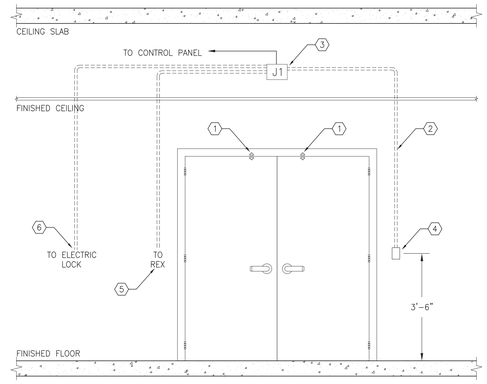
NOTES:
1. DOOR CONTACT
2. STUB 3/4" CONDUIT WITH DRAG LINE (TYPICAL)
3. PROVIDE 4" x 4" x 2-1/8" DEEP JUNCTION BOX WITH COVER MOUNTED ABOVE DOOR, ABOVE ACCESSIBLE CEILING.
4. CARD READER (UNPROTECTED SIDE)
5. REQUEST TO EXIT (PROTECTED SIDE)
6. ELECTRIC LOCK

02 SINGLE DOOR – ELECTRIC LOCK (TBD) CARD READER IN
SCALE: NTS



NOTES:
1. DOOR CONTACT
2. STUB 3/4" CONDUIT WITH DRAG LINE (TYPICAL)
3. PROVIDE 4" x 4" x 2-1/8" DEEP JUNCTION BOX WITH COVER MOUNTED ABOVE DOOR, ABOVE FINISHED CEILING.

03 SINGLE DOOR DOOR CONTACT
SCALE: NTS



NOTES:
1. DOOR CONTACT
2. STUB 3/4" CONDUIT WITH DRAG LINE (TYPICAL)
3. PROVIDE 4" x 4" x 2-1/8" DEEP JUNCTION BOX WITH COVER MOUNTED ABOVE DOOR, ABOVE ACCESSIBLE CEILING.
4. CARD READER (UNPROTECTED SIDE)
5. REQUEST TO EXIT (PROTECTED SIDE)
6. ELECTRIC LOCK

04 DOUBLE DOOR – ELECTRIC LOCK (TBD) CARD READER IN
SCALE: NTS

NOTES:
1. DOOR CONTACT
2. STUB 3/4" CONDUIT WITH DRAG LINE (TYPICAL)
3. PROVIDE 4" x 4" x 2-1/8" DEEP JUNCTION BOX WITH COVER MOUNTED ABOVE DOOR, ABOVE FINISHED CEILING.

05 DOUBLE DOOR DOOR CONTACT
SCALE: NTS

NOTES:
1. DETAIL REPRESENTS TYPICAL SECURITY REQUIREMENTS
2. FINAL MOUNTING LOCATIONS TO BE COORDINATED WITH ARCHITECT'S INTERIOR ELEVATIONS
3. SEE THE FLOOR/CEILING PLANS FOR DEVICE LOCATIONS

06 DURESS BUTTON UNDER DESK MOUNT
SCALE: NTS

NOTES:
1. DETAIL REPRESENTS TYPICAL SECURITY REQUIREMENTS
2. FINAL MOUNTING LOCATIONS TO BE COORDINATED WITH ARCHITECT'S INTERIOR ELEVATIONS
3. SEE THE FLOOR/CEILING PLANS FOR DEVICE LOCATIONS

07 INTERCOM MASTER DESKTOP
SCALE: NTS

NOTES:
1. DETAIL REPRESENTS TYPICAL SECURITY REQUIREMENTS
2. FINAL MOUNTING LOCATIONS TO BE COORDINATED WITH ARCHITECT'S INTERIOR ELEVATIONS
3. SEE THE FLOOR/CEILING PLANS FOR DEVICE LOCATIONS

08 MULTI-DOOR RELEASE BUTTON(S) DESK MOUNT
SCALE: NTS

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S.E.D. CONTROL NUMBER:
48-06-01-06-0-001-026

PROJECT TITLE
BREWSTER CENTRAL SCHOOL DISTRICT
C.V. STARR INTERMEDIATE SCHOOL
CAFETORIUM ADDITION/INTERIOR RENOVATIONS AND SITE WORK
20 FARM TO MARKET ROAD BREWSTER, NY 10509

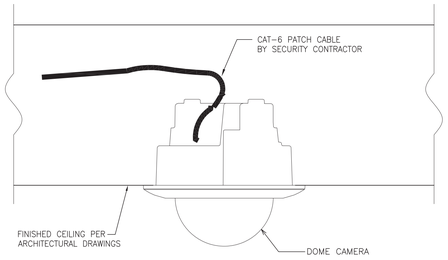
DRAWING TITLE
SECURITY DETAILS

DATE	ISSUED TO
12-09-2024	BID
03-05-2024	SED SUBMISSION
11-29-2023	D.D. SUBMISSION
08-31-2023	S.D. SUBMISSION

SHEET SIZE 30"x42"
DRAWING NO. CVS T302
SCALE AS NOTED
DRAWN BY
FILE NO. 23505.02

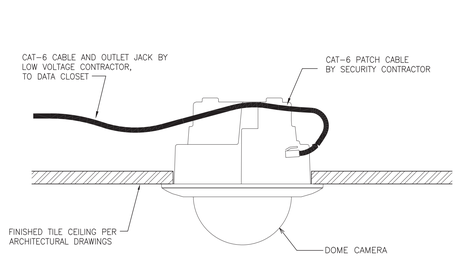
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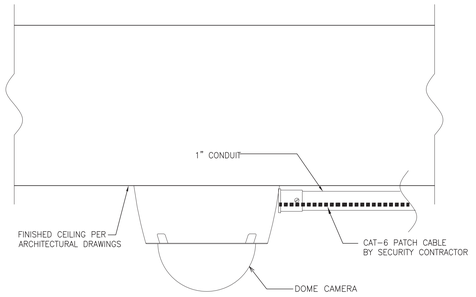
NOTES:
1. DETAIL REPRESENTS TYPICAL SECURITY REQUIREMENTS
2. SEE THE FLOOR/CEILING PLANS FOR DEVICE LOCATIONS

1 IN-CEILING DOME CAMERA INTERIOR CEILING FLUSH MOUNT
SCALE: N.T.S.



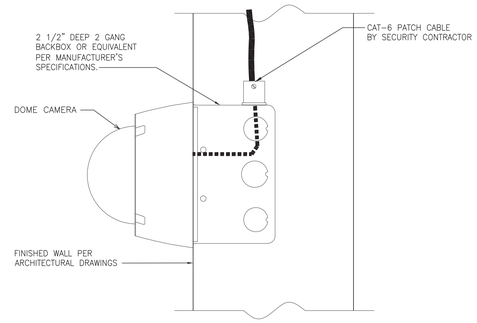
NOTES:
1. DETAIL REPRESENTS TYPICAL SECURITY REQUIREMENTS
2. SEE THE FLOOR/CEILING PLANS FOR DEVICE LOCATIONS

2 IN-CEILING DOME CAMERA INTERIOR TILE CEILING FLUSH MOUNT
SCALE: N.T.S.



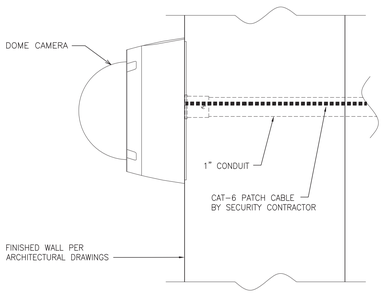
NOTES:
1. DETAIL REPRESENTS TYPICAL SECURITY REQUIREMENTS
2 SEE THE FLOOR/CEILING PLANS FOR DEVICE LOCATIONS

3 DOME CAMERA INTERIOR CEILING SURFACE MOUNT
SCALE: N.T.S.



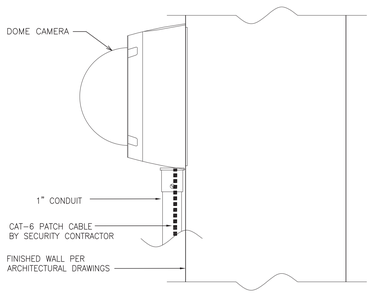
NOTES:
1. DETAIL REPRESENTS TYPICAL SECURITY REQUIREMENTS
2. SEE THE FLOOR/CEILING PLANS FOR DEVICE LOCATIONS

4 DOME CAMERA INTERIOR WALL SURFACE MOUNT
SCALE: N.T.S.



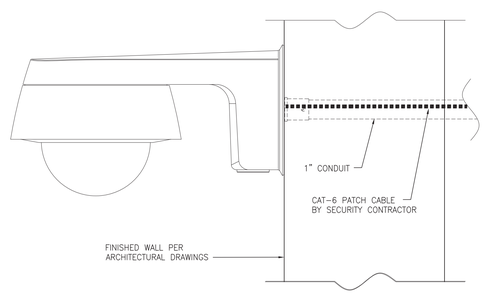
NOTES:
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2. SEE THE FLOOR/CEILING PLANS FOR DEVICE LOCATIONS

5 DOME CAMERA EXTERIOR WALL SURFACE MOUNT
SCALE: N.T.S.



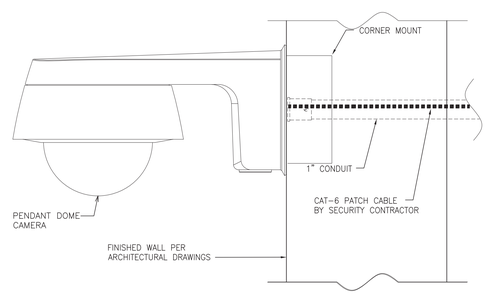
NOTES:
1. DETAIL REPRESENTS TYPICAL SECURITY REQUIREMENTS
2. SEE THE FLOOR/CEILING PLANS FOR DEVICE LOCATIONS

6 DOME CAMERA EXTERIOR WALL SURFACE MOUNT
SCALE: N.T.S.



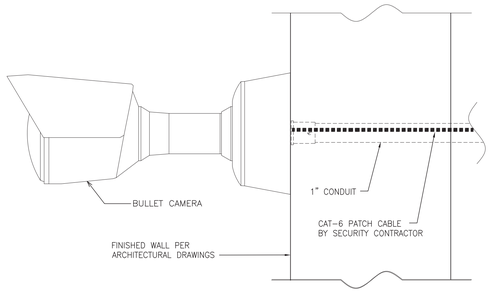
NOTES:
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2. SEE THE FLOOR/CEILING PLANS FOR DEVICE LOCATIONS

7 PENDANT DOME CAMERA EXTERIOR WALL MOUNT
SCALE: N.T.S.



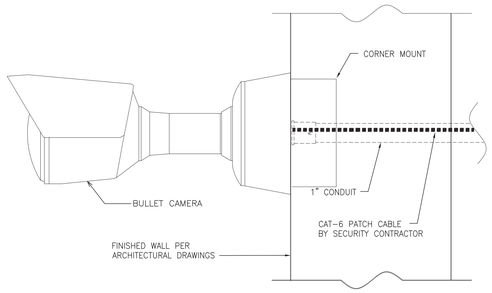
NOTES:
1. DETAIL REPRESENTS TYPICAL SECURITY REQUIREMENTS
2. SEE THE FLOOR/CEILING PLANS FOR DEVICE LOCATIONS

8 PENDANT DOME CAMERA EXTERIOR WALL MOUNT
SCALE: N.T.S.



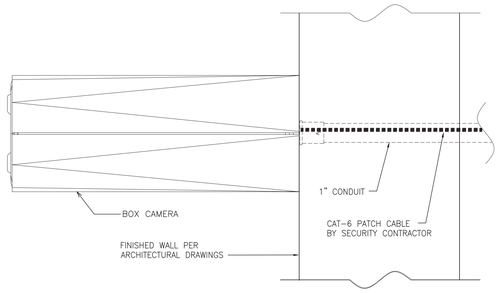
NOTES:
1. DETAIL REPRESENTS TYPICAL SECURITY REQUIREMENTS
2. SEE THE FLOOR/CEILING PLANS FOR DEVICE LOCATIONS

9 BULLET CAMERA EXTERIOR WALL MOUNT
SCALE: N.T.S.



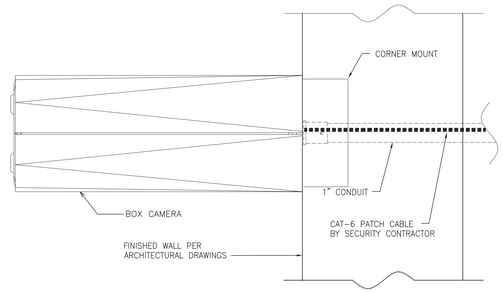
NOTES:
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2. SEE THE FLOOR/CEILING PLANS FOR DEVICE LOCATIONS

10 BULLET CAMERA EXTERIOR WALL MOUNT
SCALE: N.T.S.



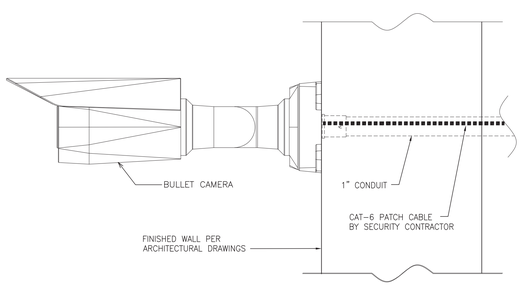
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2. SEE THE FLOOR/CEILING PLANS FOR DEVICE LOCATIONS

11 BOX CAMERA EXTERIOR WALL MOUNT
SCALE: N.T.S.



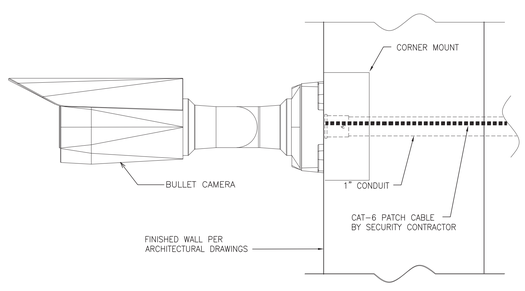
NOTES:
1. DETAIL REPRESENTS TYPICAL SECURITY REQUIREMENTS
2. SEE THE FLOOR/CEILING PLANS FOR DEVICE LOCATIONS

12 BOX CAMERA EXTERIOR WALL MOUNT
SCALE: N.T.S.



NOTES:
1. DETAIL REPRESENTS TYPICAL SECURITY REQUIREMENTS
2. SEE THE FLOOR/CEILING PLANS FOR DEVICE LOCATIONS

13 BULLET CAMERA EXTERIOR WALL MOUNT
SCALE: N.T.S.



NOTES:
1. DETAIL REPRESENTS TYPICAL SECURITY REQUIREMENTS
2. SEE THE FLOOR/CEILING PLANS FOR DEVICE LOCATIONS

14 BULLET CAMERA EXTERIOR WALL MOUNT
SCALE: N.T.S.

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LICENSE EXP. DATE: 03-31-2025

S.E.D. CONTROL NUMBER:
48-06-01-06-0-001-026

PROJECT TITLE
BREWSTER CENTRAL SCHOOL DISTRICT
C.V. STARR INTERMEDIATE SCHOOL
CAFETORIUM ADDITION, INTERIOR
RENOVATIONS & SITE WORK
20 FARM TO MARKET ROAD BREWSTER, NY 10509

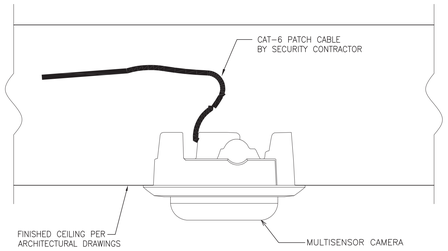
DRAWING TITLE
SECURITY DETAILS

DATE	ISSUED TO
12-09-2024	BID
03-05-2024	SED SUBMISSION
11-29-2023	D.D. SUBMISSION
08-31-2023	S.D. SUBMISSION

SHEET SIZE 30"x42"
DRAWING NO. CVS T303
SCALE AS NOTED
DRAWN BY
FILE NO. 23505.02

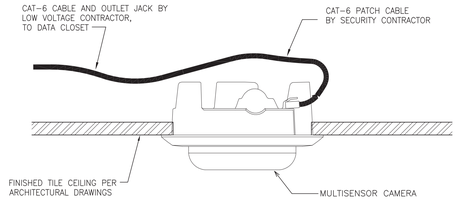
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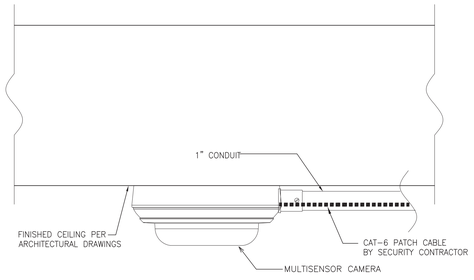
NOTES:
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2. SEE THE FLOOR/CEILING PLANS FOR DEVICE LOCATIONS

1 MULTISENSOR CAMERA INTERIOR CEILING FLUSH MOUNT
SCALE: N.T.S.



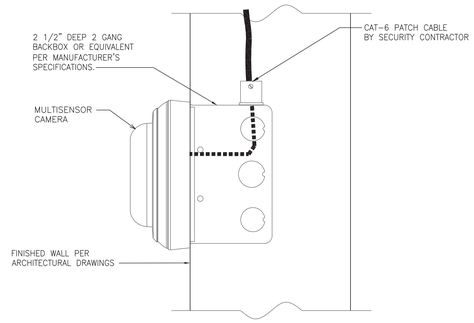
NOTES:
1. DETAIL REPRESENTS TYPICAL SECURITY REQUIREMENTS
2. SEE THE FLOOR/CEILING PLANS FOR DEVICE LOCATIONS

2 MULTISENSOR CAMERA INTERIOR TILE CEILING FLUSH MOUNT
SCALE: N.T.S.



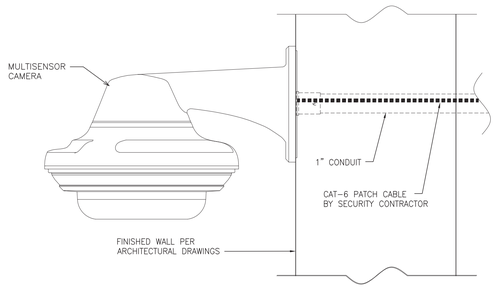
NOTES:
1. DETAIL REPRESENTS TYPICAL SECURITY REQUIREMENTS
2. SEE THE FLOOR/CEILING PLANS FOR DEVICE LOCATIONS

3 MULTISENSOR CAMERA INTERIOR CEILING SURFACE MOUNT
SCALE: N.T.S.



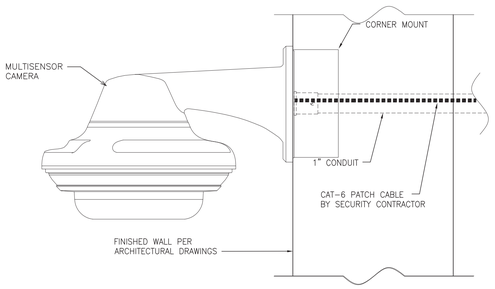
NOTES:
1. DETAIL REPRESENTS TYPICAL SECURITY REQUIREMENTS
2. SEE THE FLOOR/CEILING PLANS FOR DEVICE LOCATIONS

4 MULTISENSOR CAMERA INTERIOR WALL SURFACE MOUNT
SCALE: N.T.S.



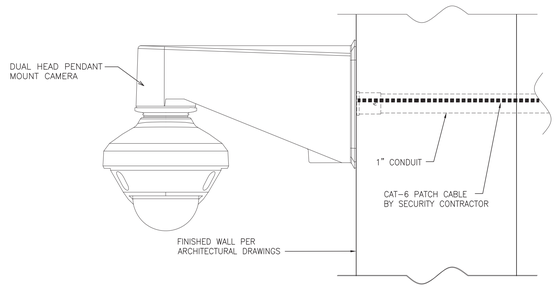
NOTES:
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5 MULTISENSOR CAMERA WALL MOUNT
SCALE: N.T.S.



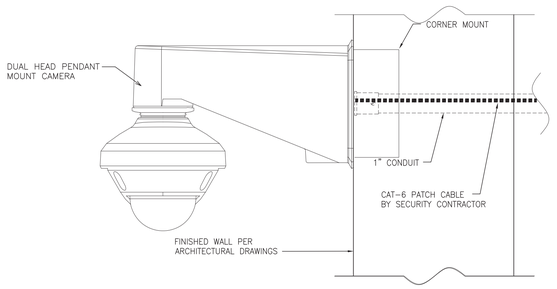
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2. SEE THE FLOOR/CEILING PLANS FOR DEVICE LOCATIONS

6 MULTISENSOR CAMERA WALL MOUNT
SCALE: N.T.S.



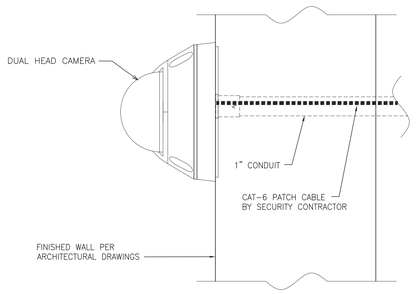
NOTES:
1. DETAIL REPRESENTS TYPICAL SECURITY REQUIREMENTS
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7 DUAL HEAD CAMERA WALL MOUNT
SCALE: N.T.S.



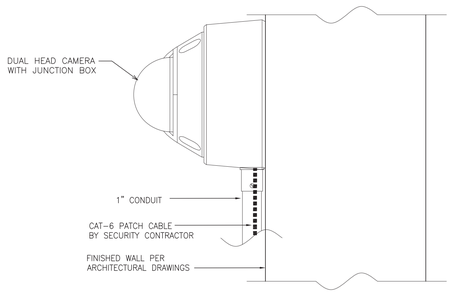
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2. SEE THE FLOOR/CEILING PLANS FOR DEVICE LOCATIONS

8 DUAL HEAD CAMERA WALL MOUNT
SCALE: N.T.S.



NOTES:
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2. SEE THE FLOOR/CEILING PLANS FOR DEVICE LOCATIONS

9 DUAL HEAD CAMERA WALL SURFACE MOUNT
SCALE: N.T.S.



NOTES:
1. DETAIL REPRESENTS TYPICAL SECURITY REQUIREMENTS
2. SEE THE FLOOR/CEILING PLANS FOR DEVICE LOCATIONS

10 DUAL HEAD CAMERA WALL SURFACE MOUNT
SCALE: N.T.S.

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S.E.D. CONTROL NUMBER:
48-06-01-06-0-001-026

PROJECT TITLE
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C.V. STARR INTERMEDIATE SCHOOL
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SHEET SIZE 30"x42"
SCALE AS NOTED
DRAWN BY
DRAWING NO. CVS T304
FILE NO. 23505.02

PLOT DATE: December 05, 2024 - 9:25am

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