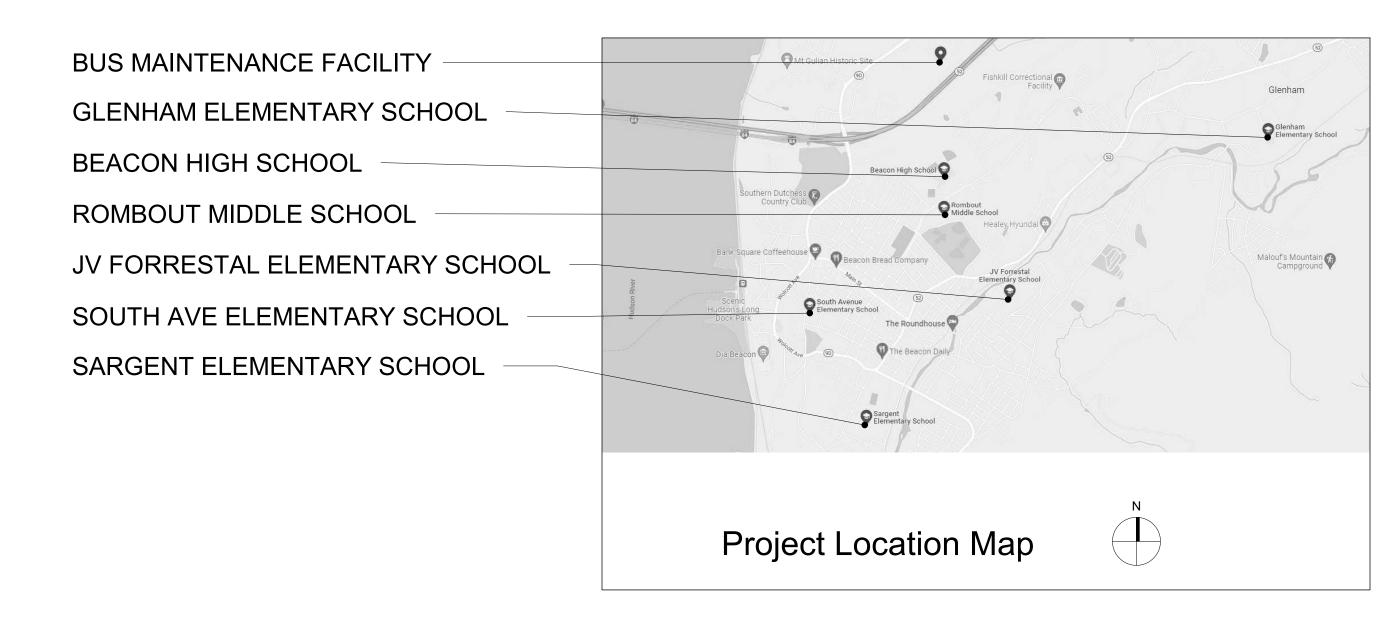
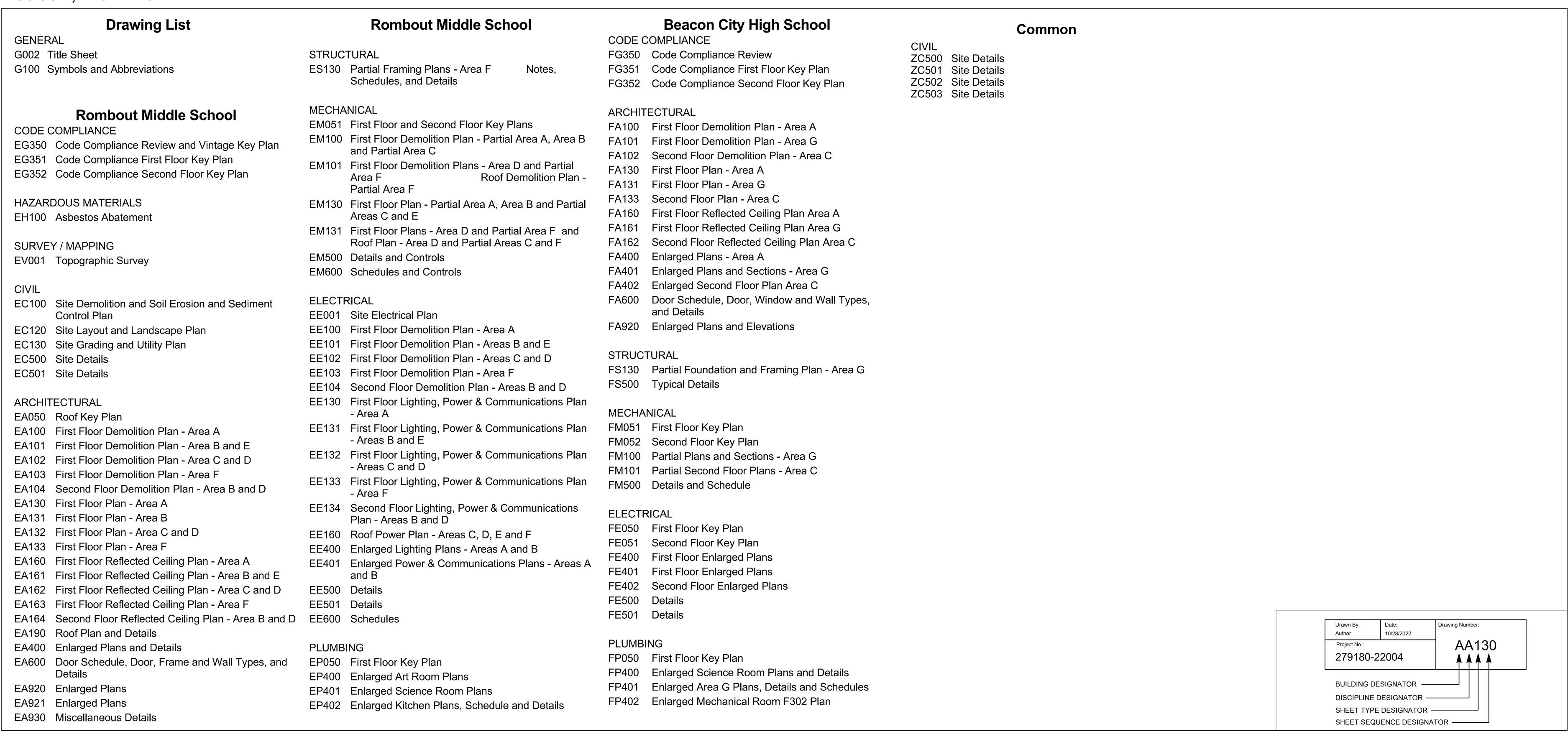
Reconstruction To:
JV Forrestal Elementary School
Sargent Elementary School
South Ave Elementary School
Rombout Middle School
Beacon High School
Bus Maintenance Facility
Addition and Alteration to:
Glenham Elementary School

SED Control No. 13-02-00-01-0-002-021 SED Control No. 13-02-00-01-0-008-020 SED Control No. 13-02-00-01-0-003-016 SED Control No. 13-02-00-01-0-020-012 SED Control No. 13-02-00-01-5-018-006

SED Control No. 13-02-00-01-0-006-022

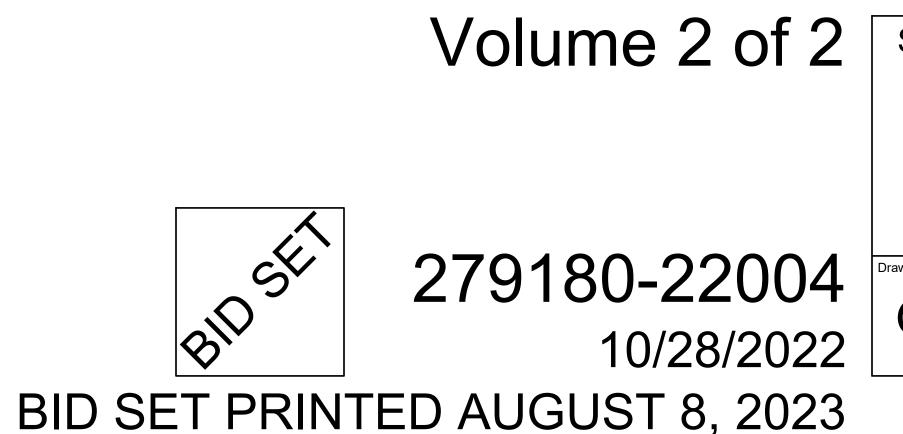


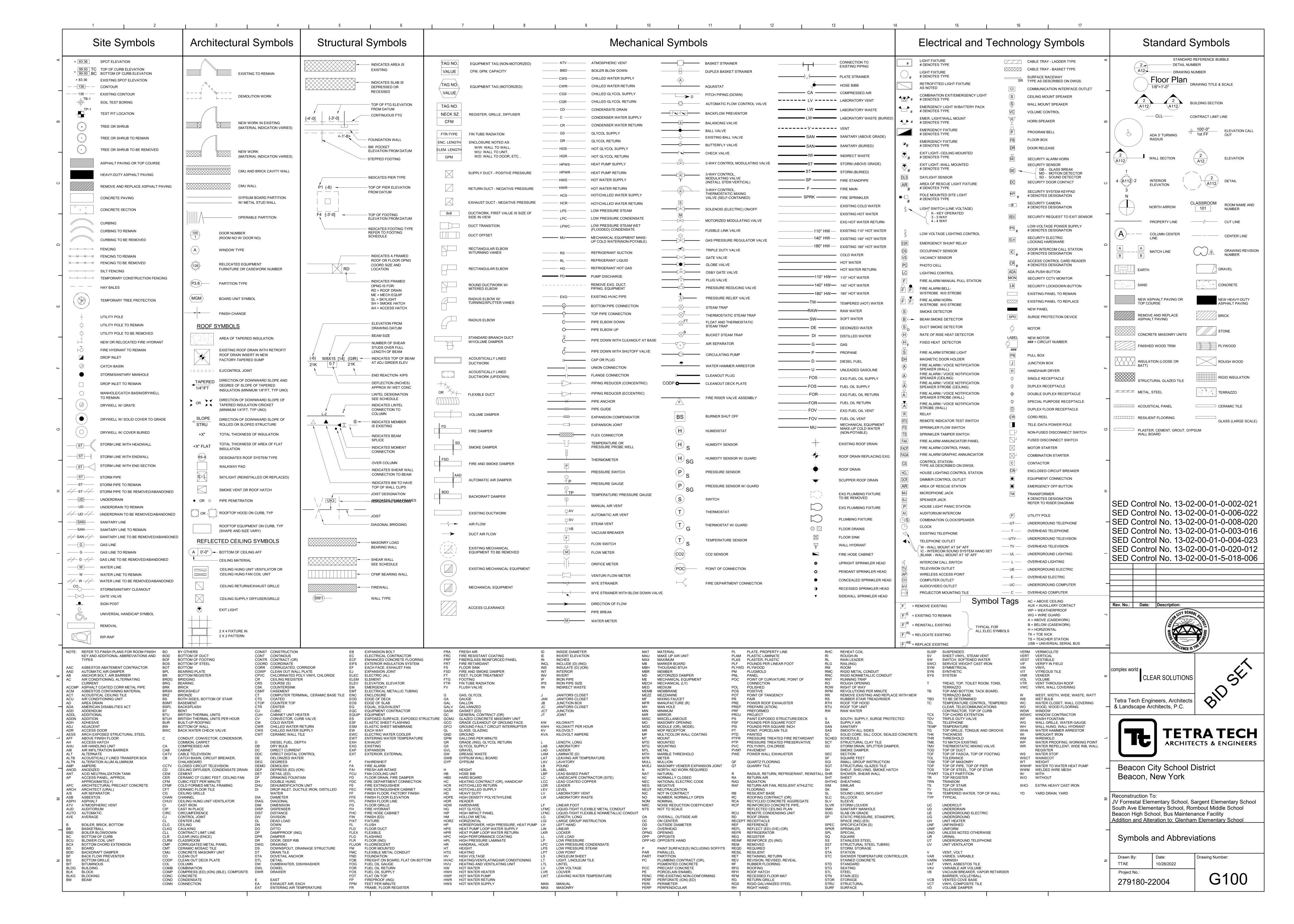
Beacon City School District Beacon, New York

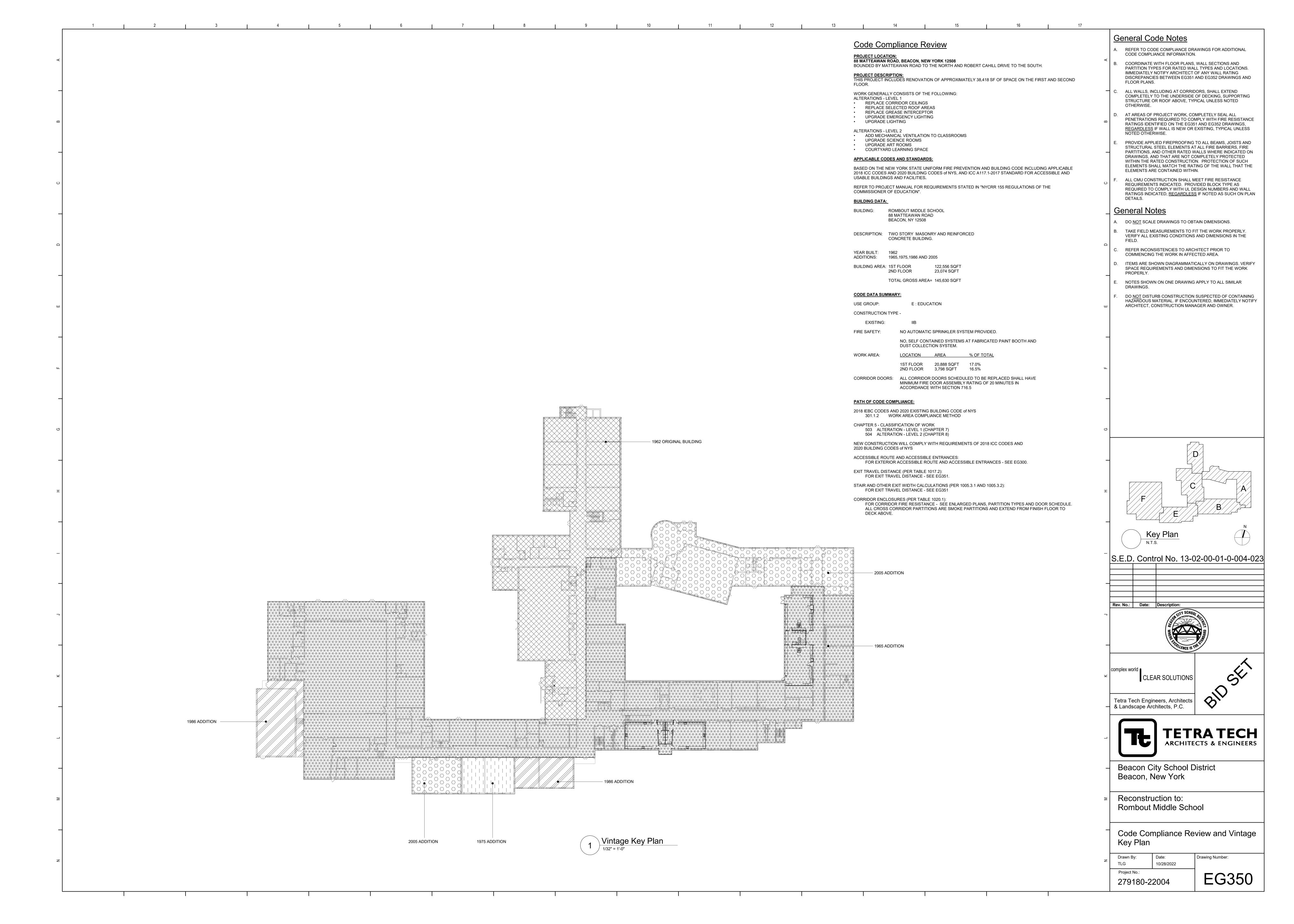


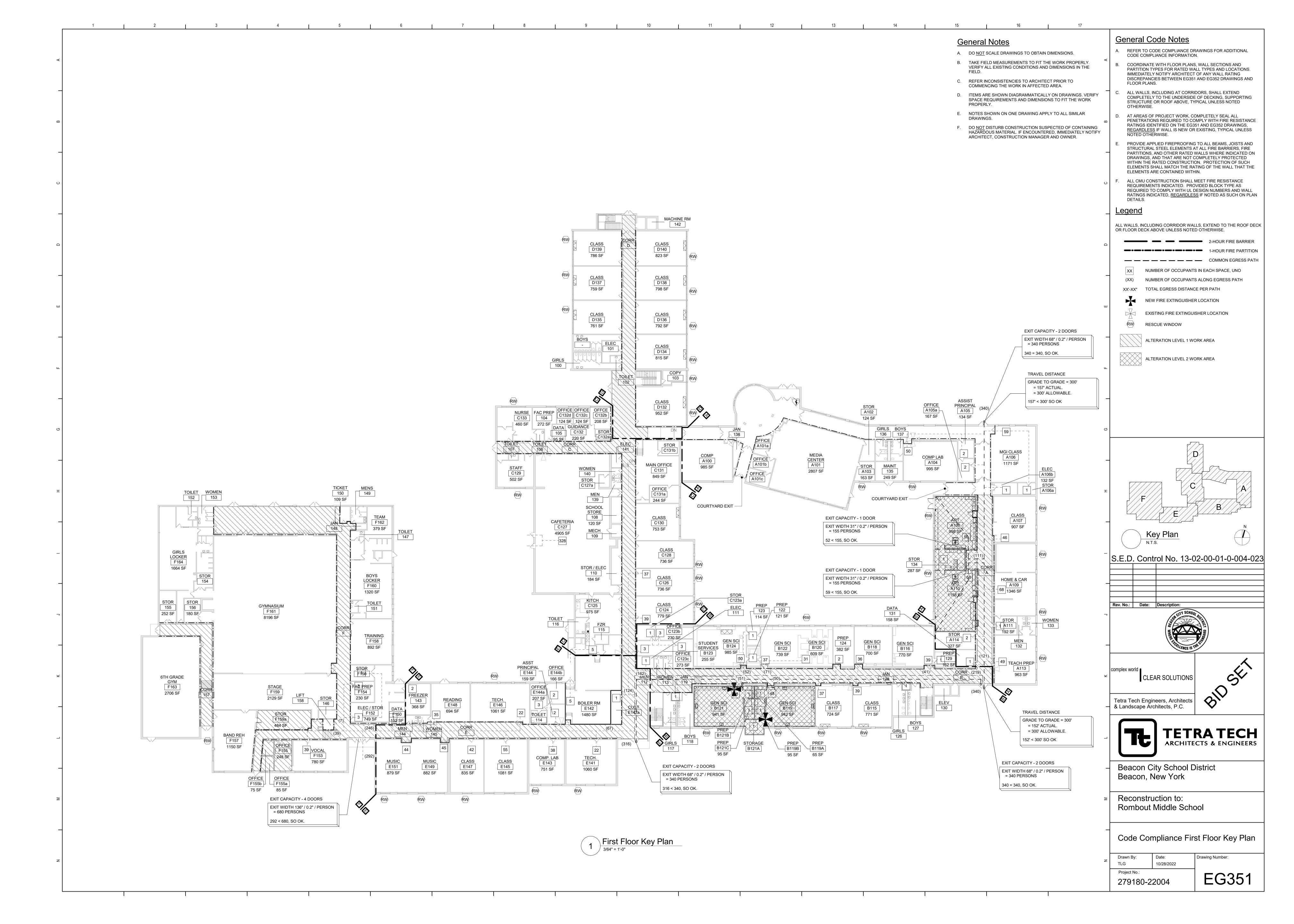


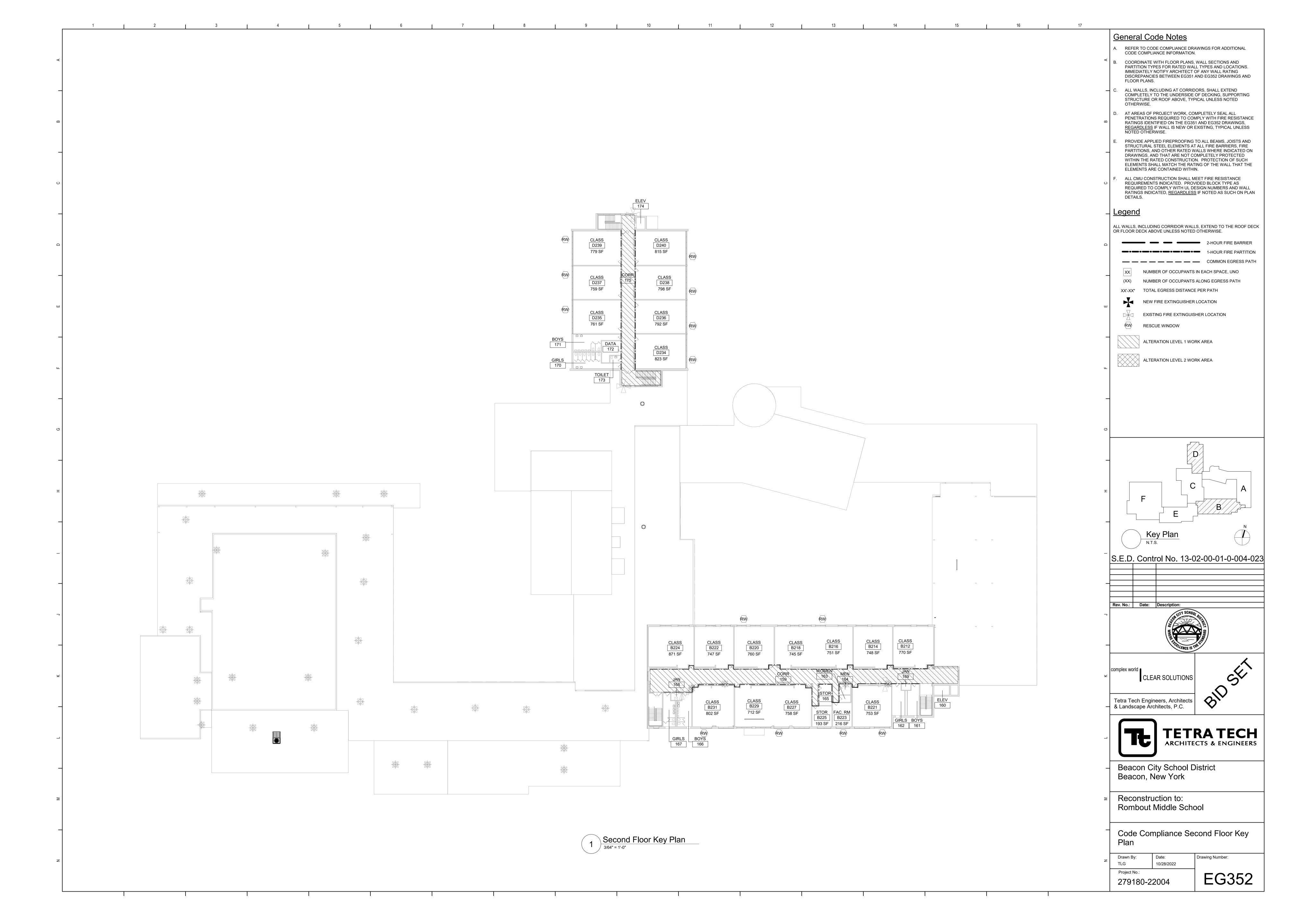
TETRATECH Architecture Engineering Planning
ARCHITECTS & ENGINEERS High Performance Facilities

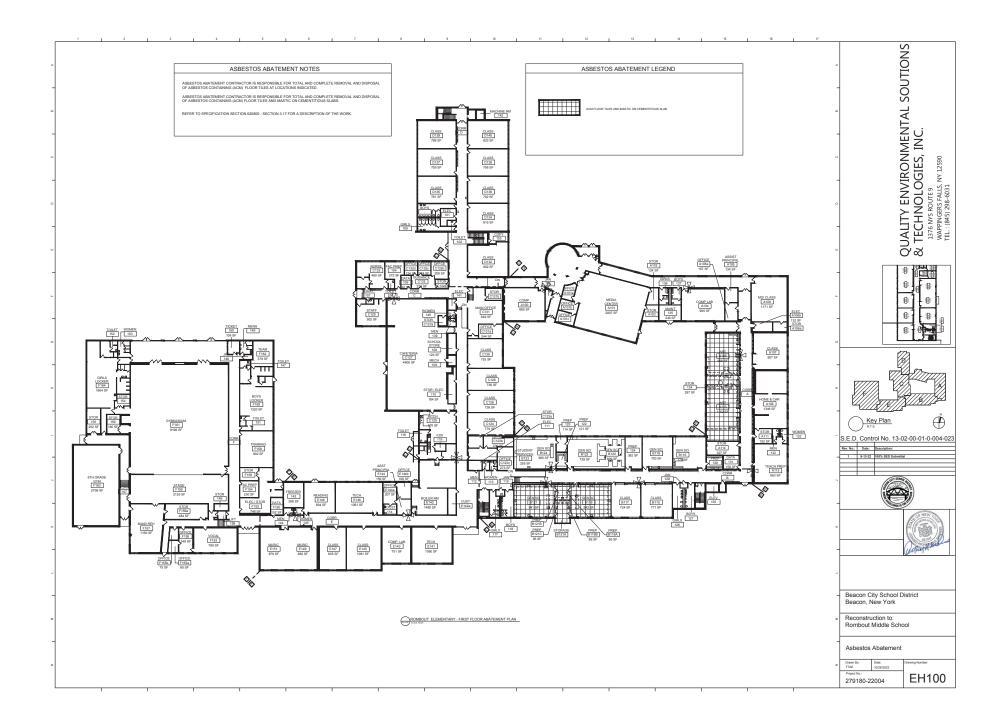


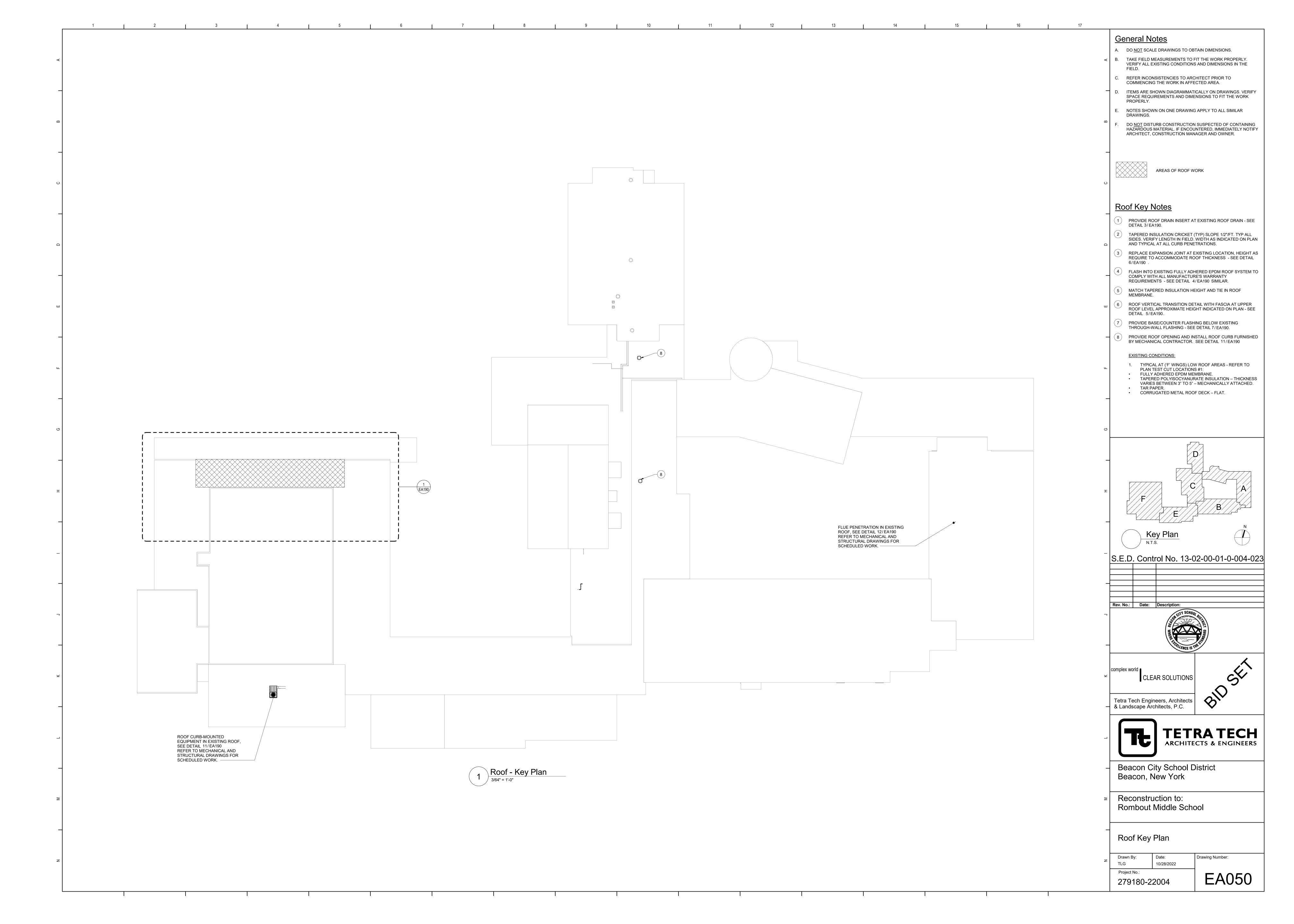


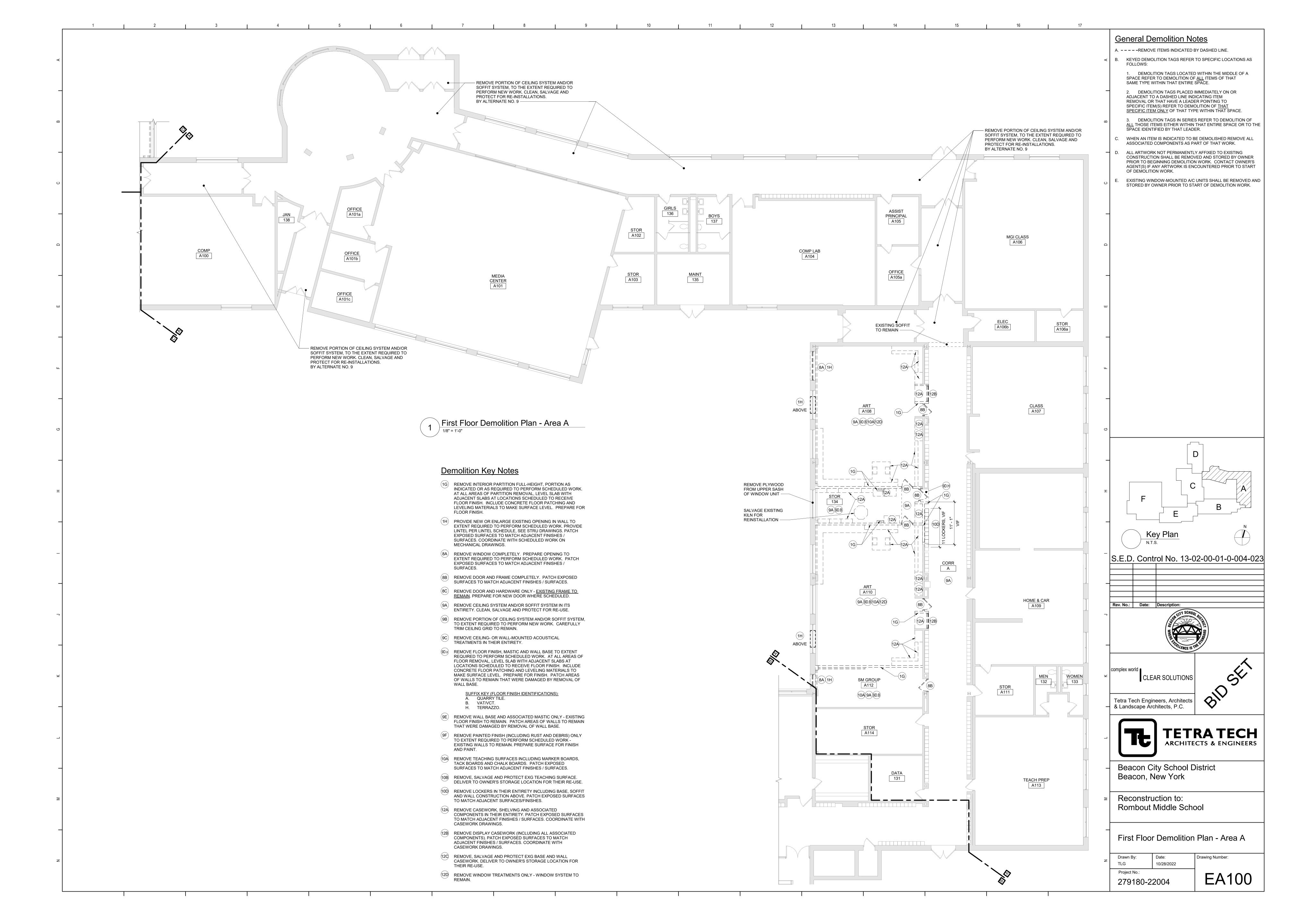


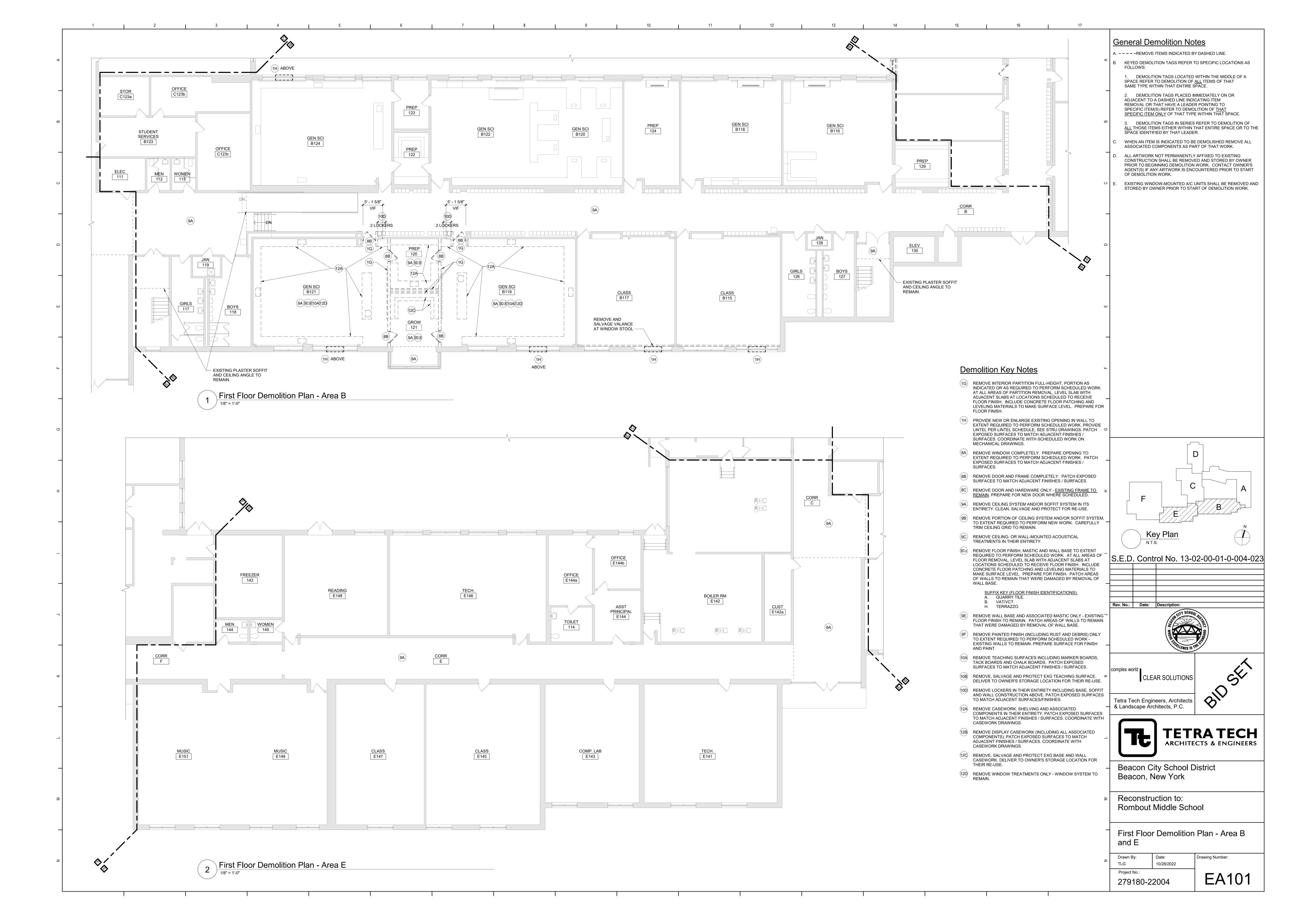


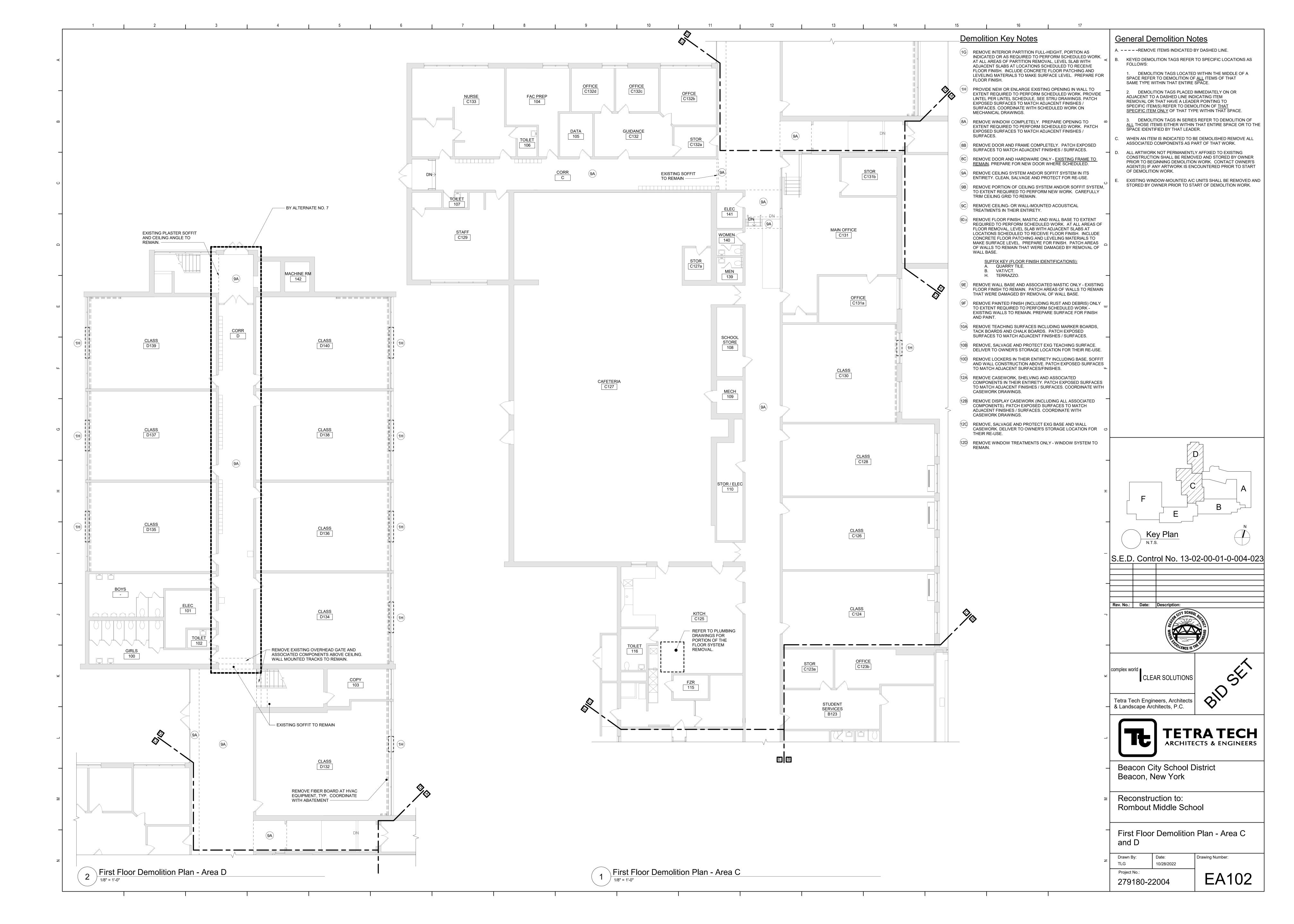


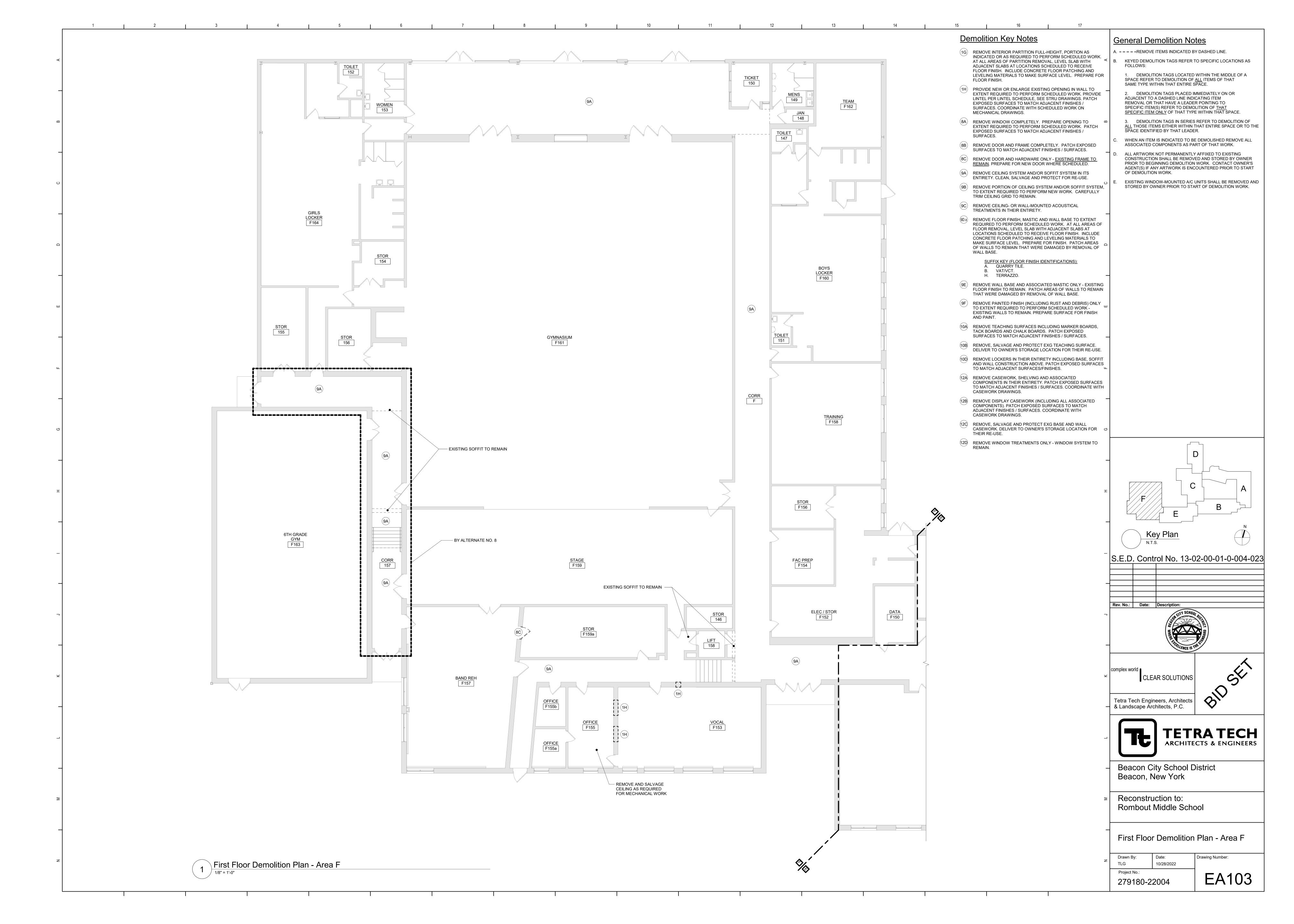


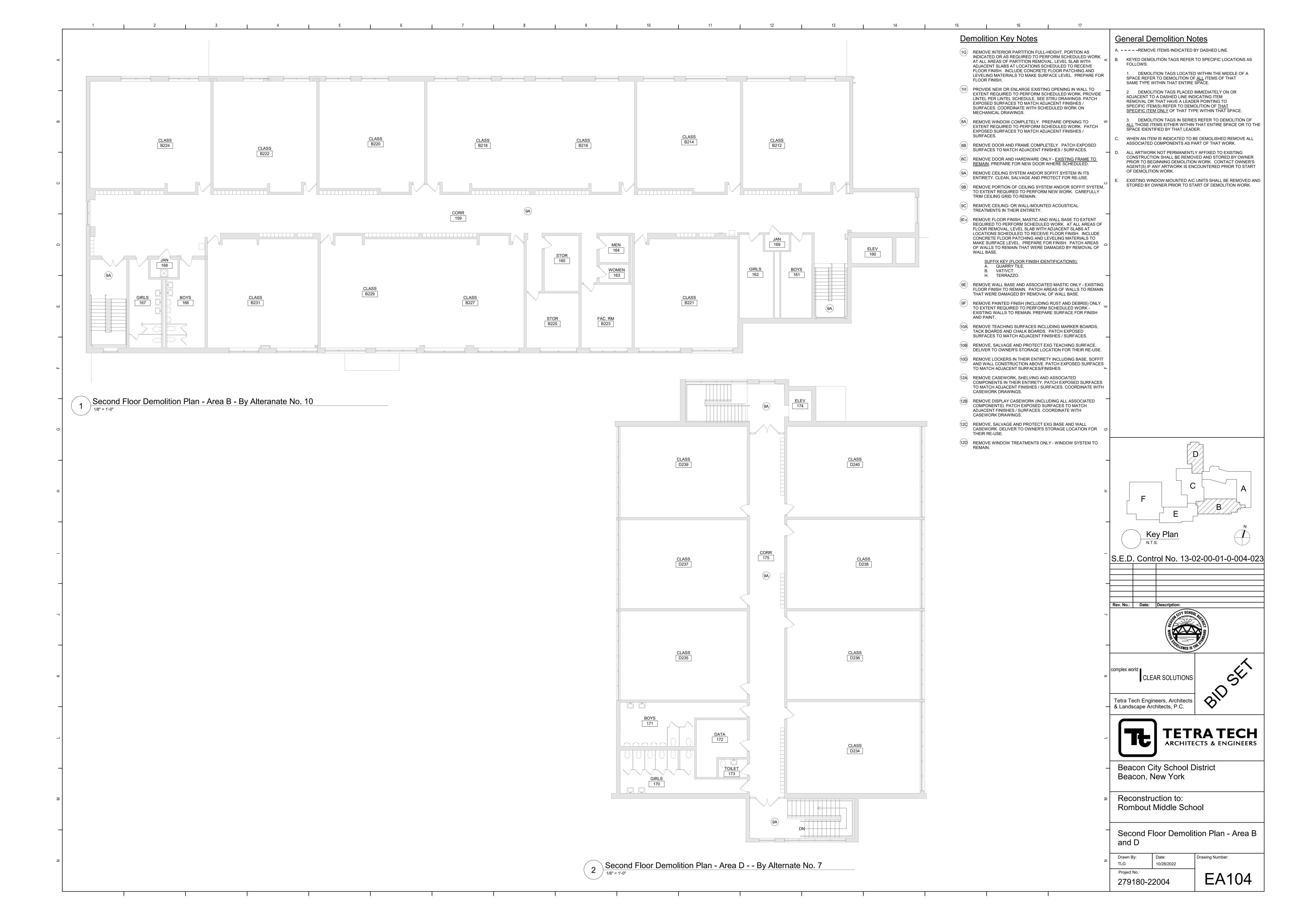


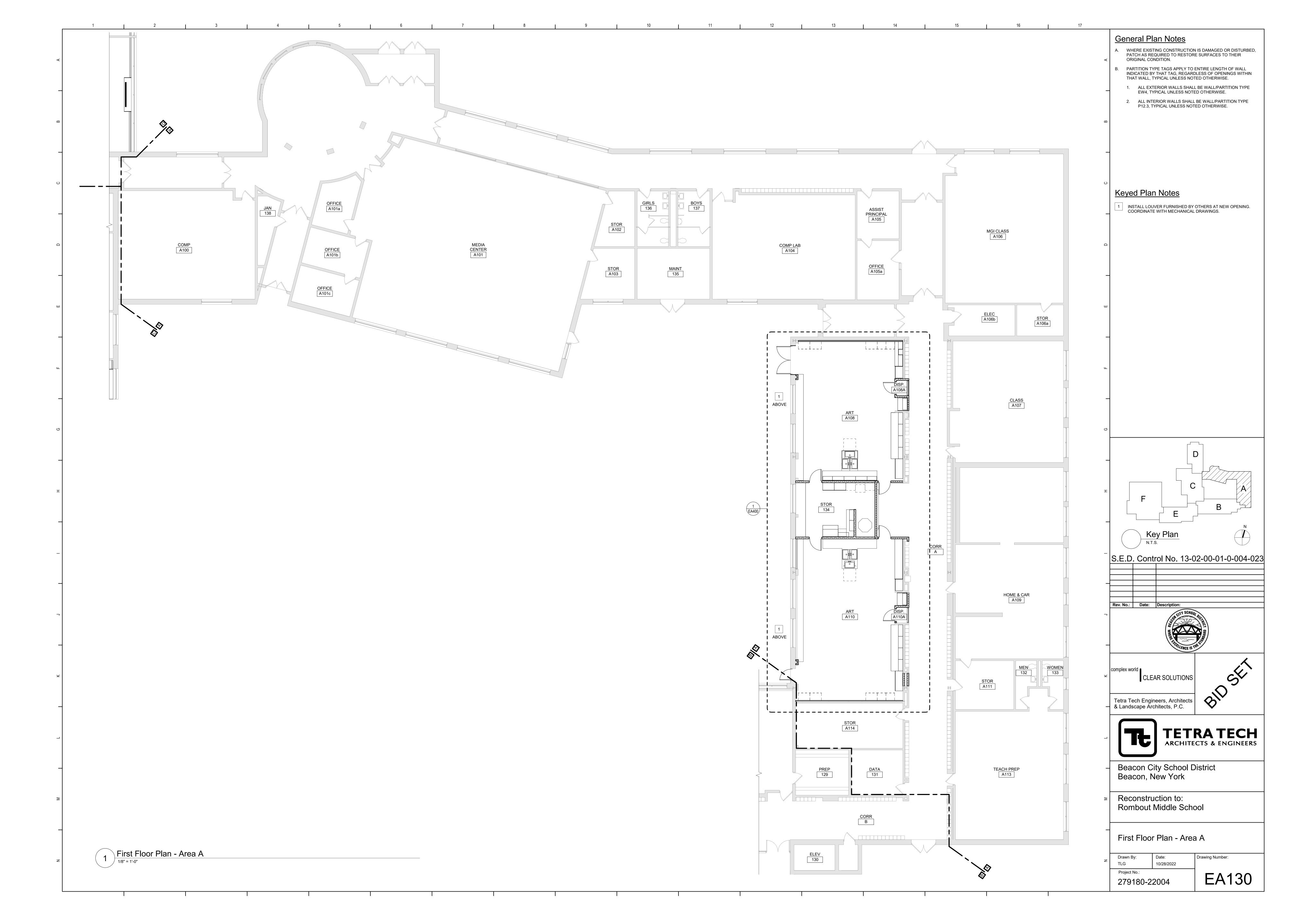


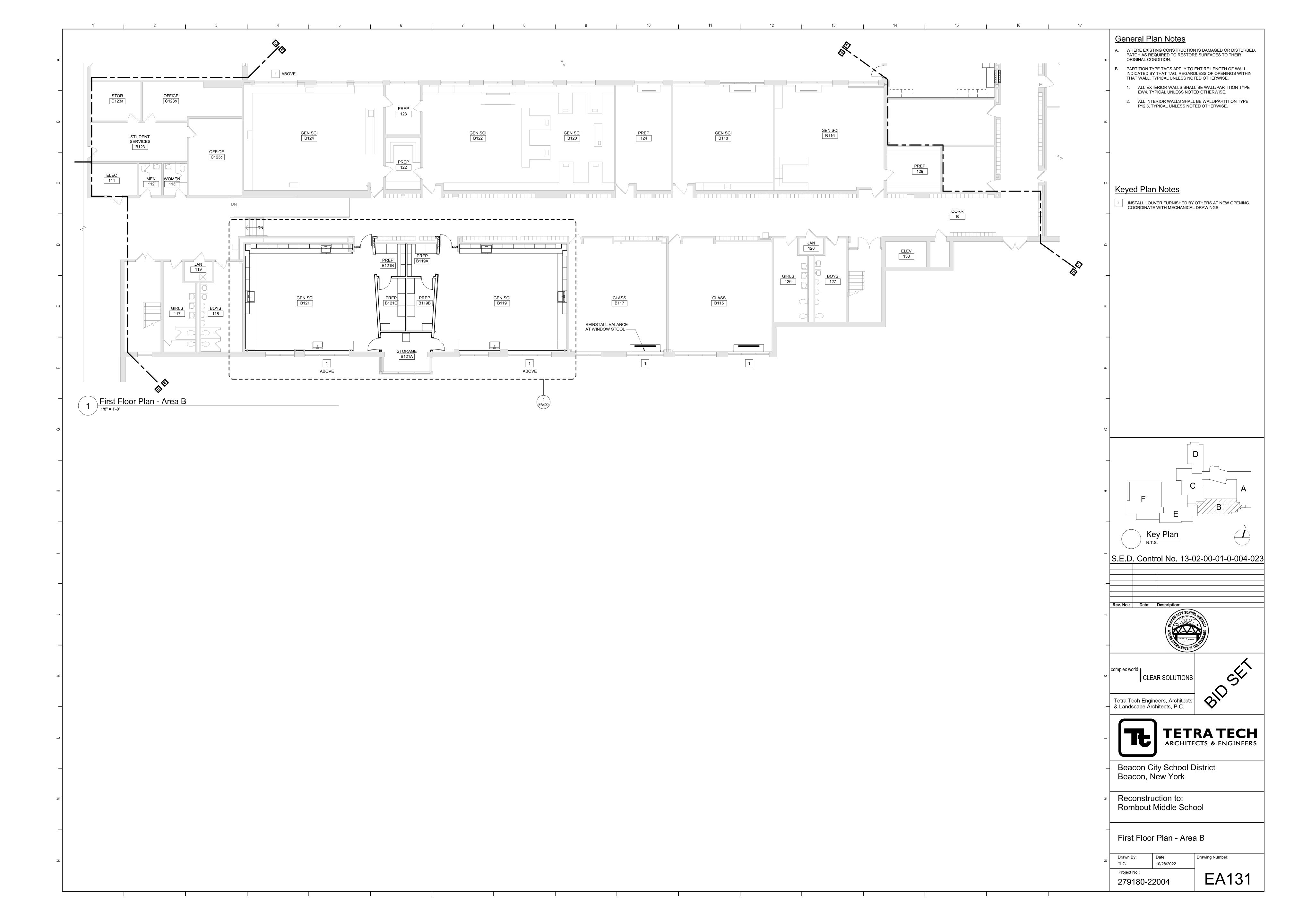


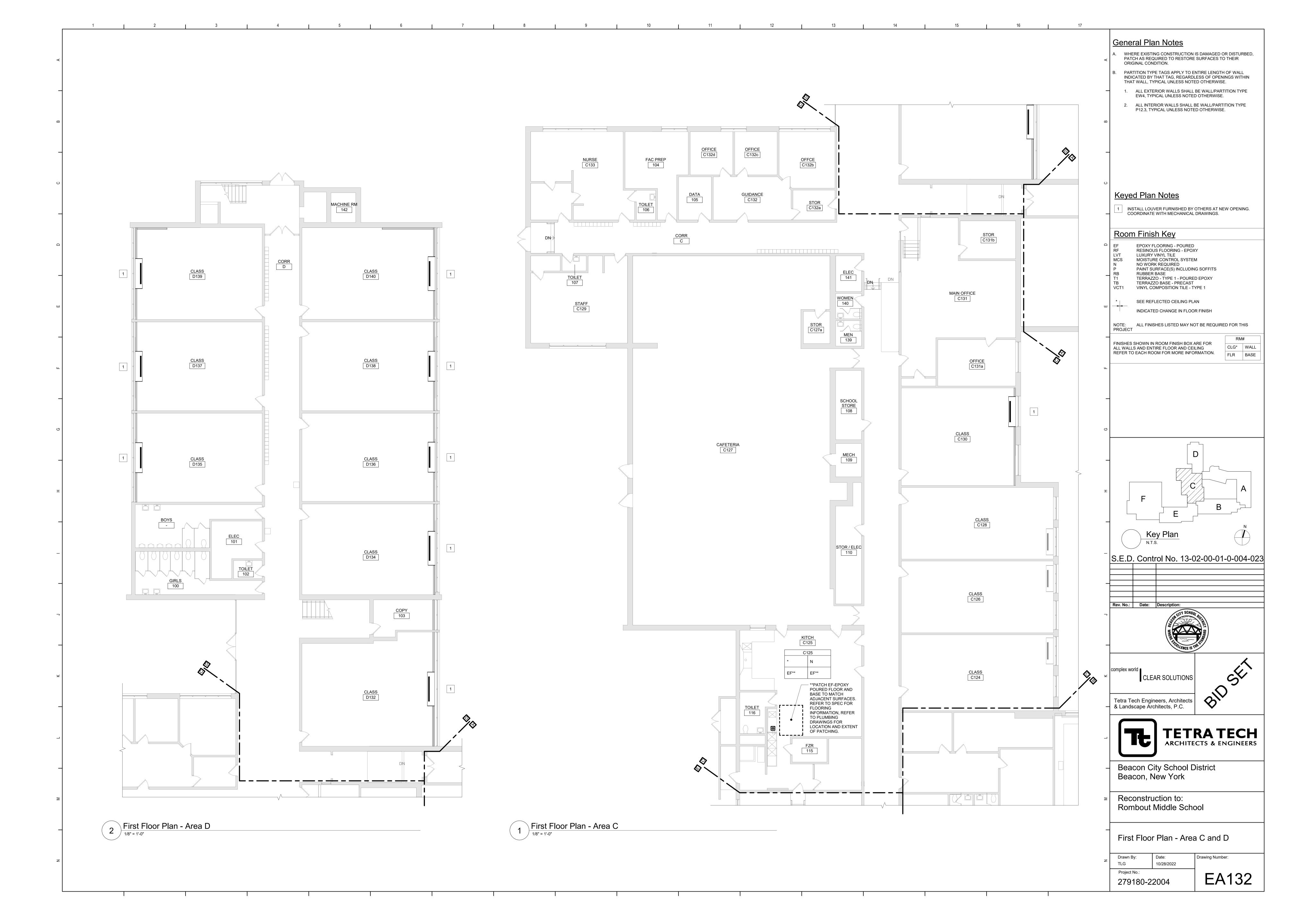


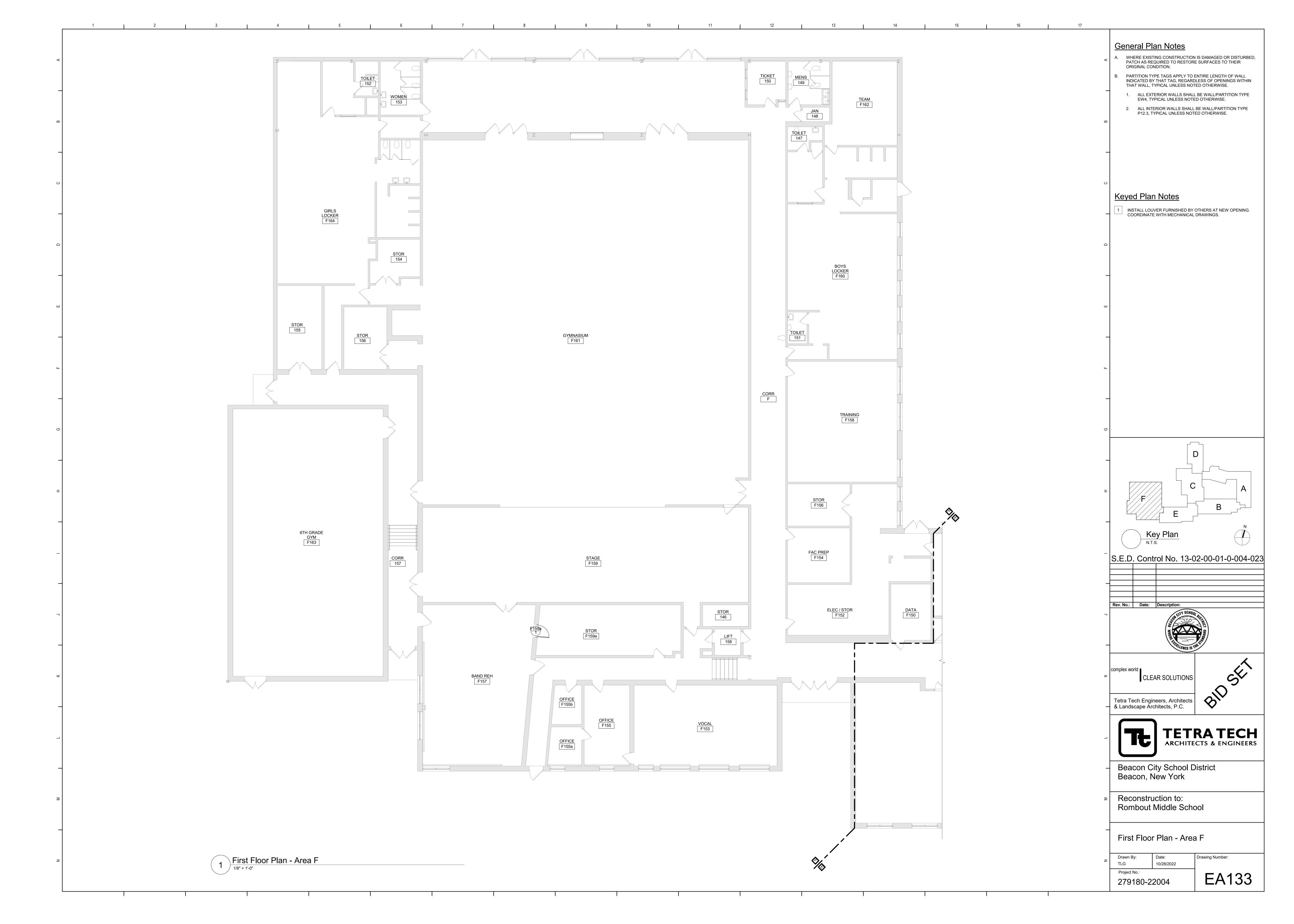


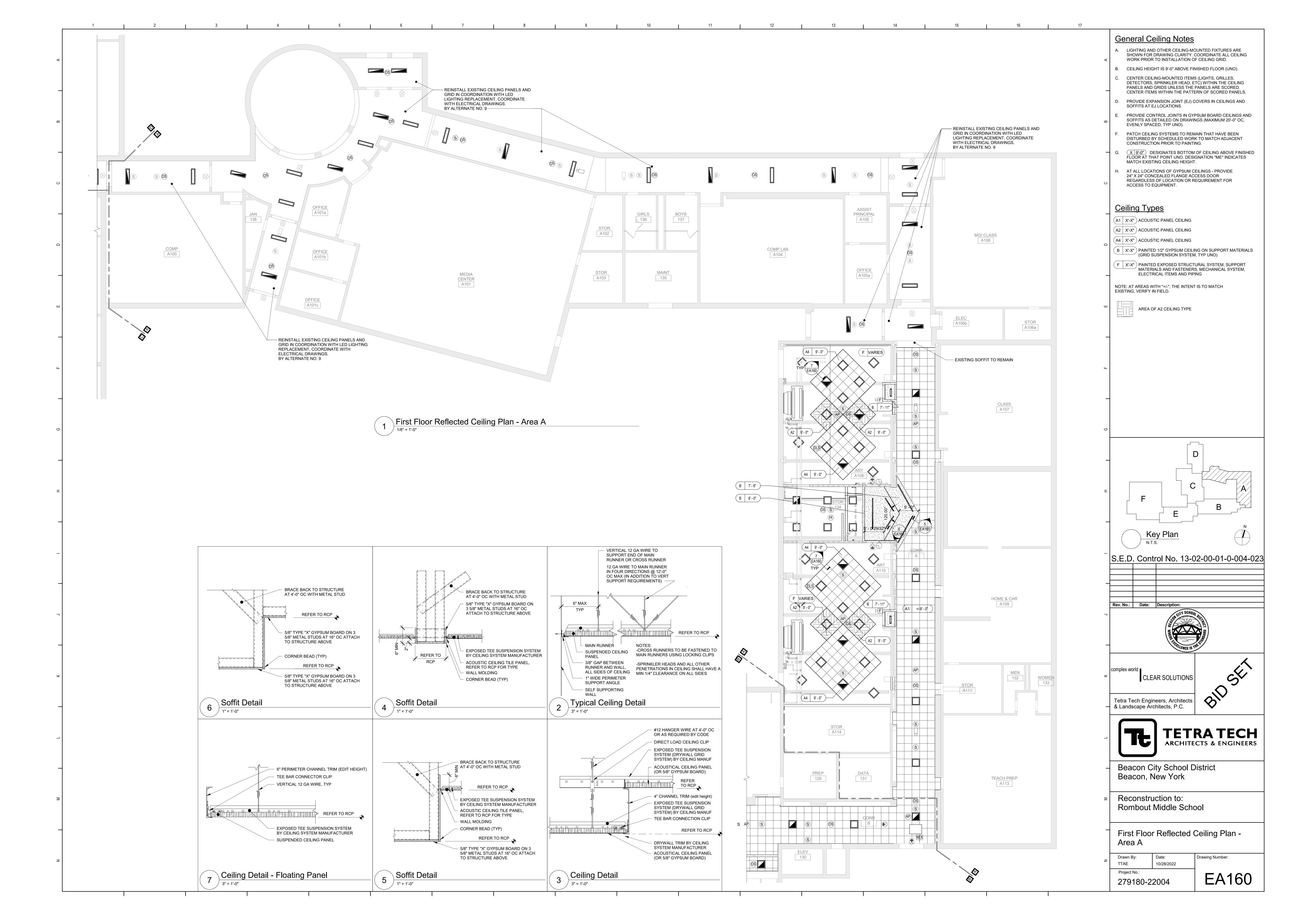


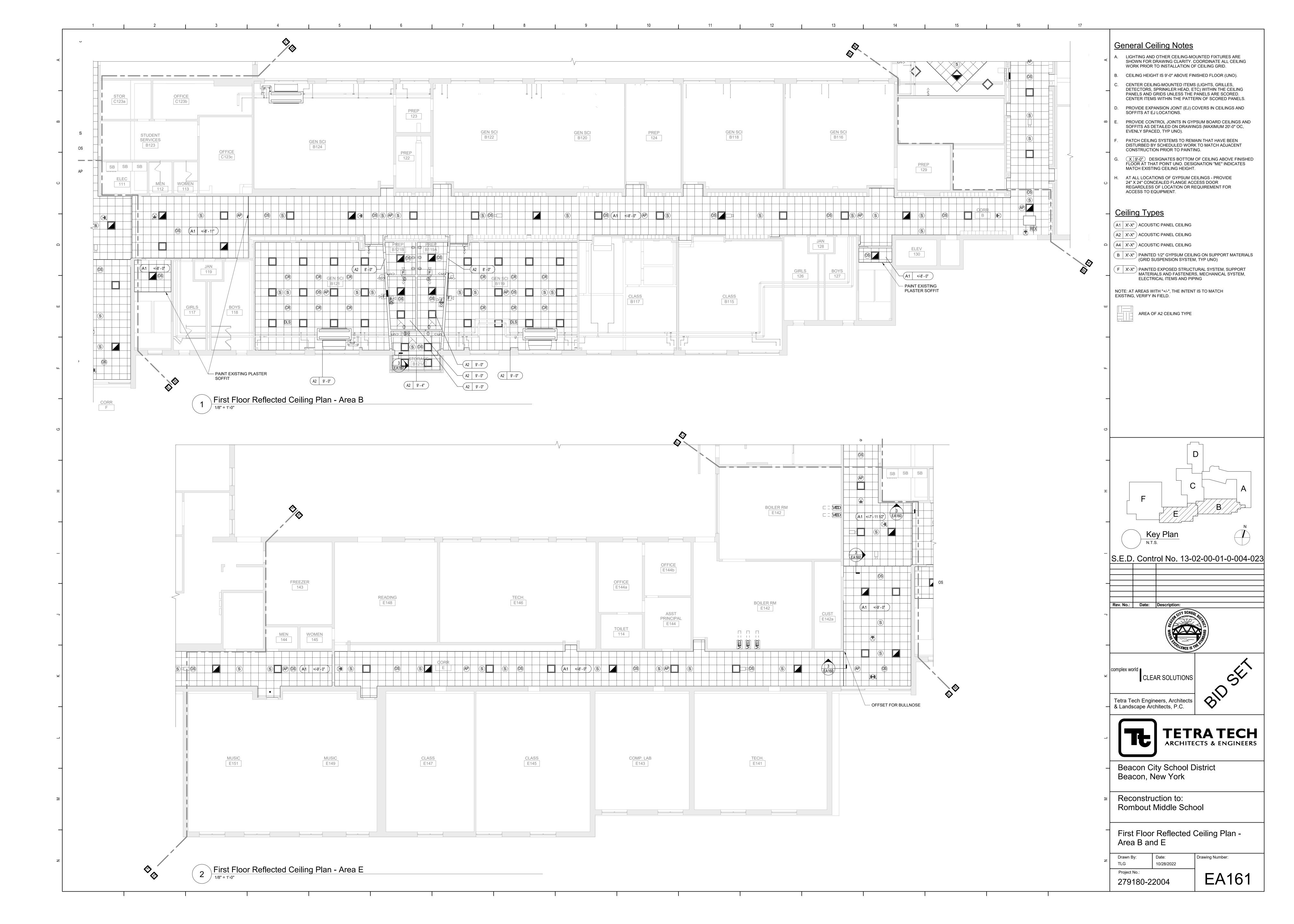


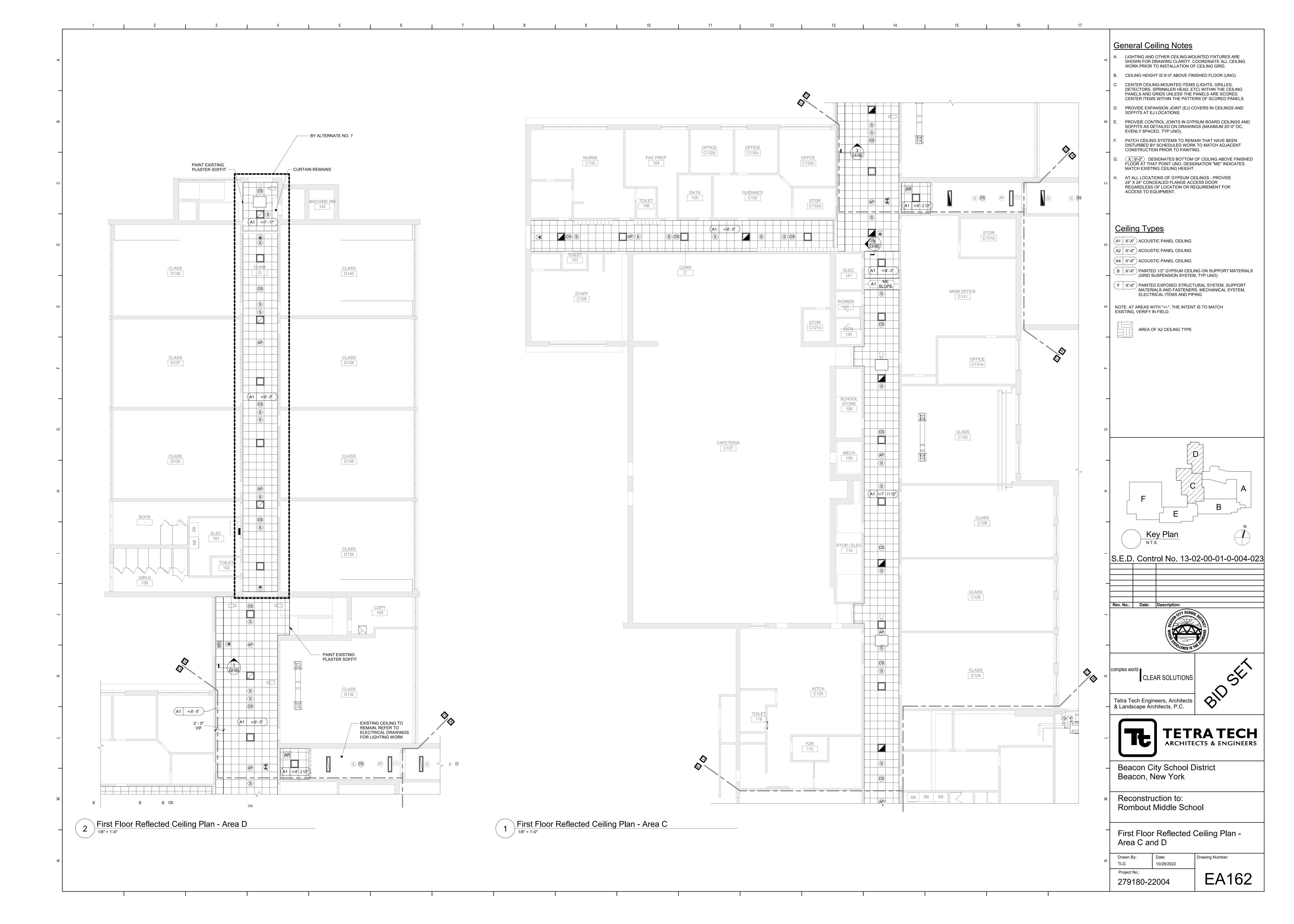


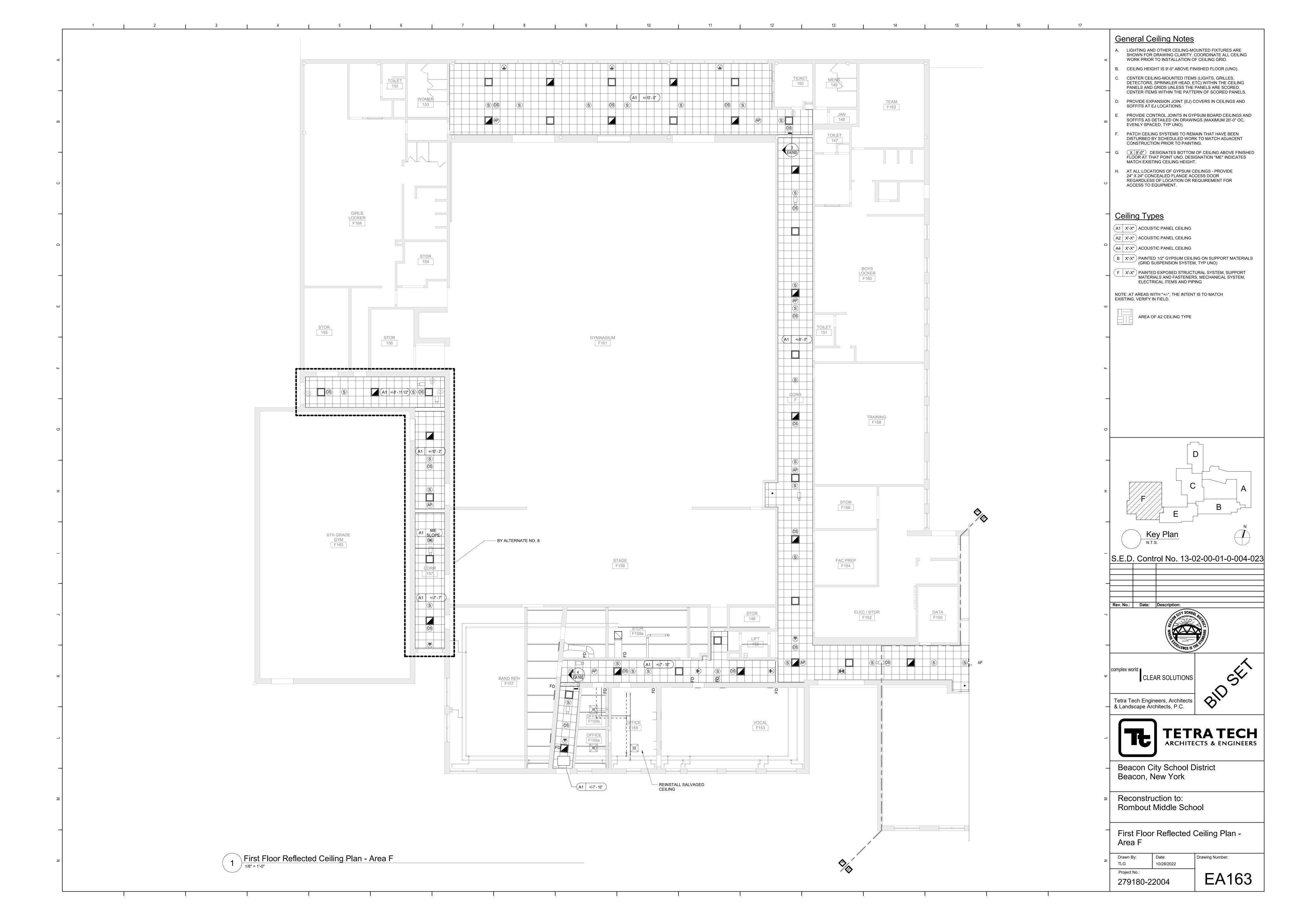


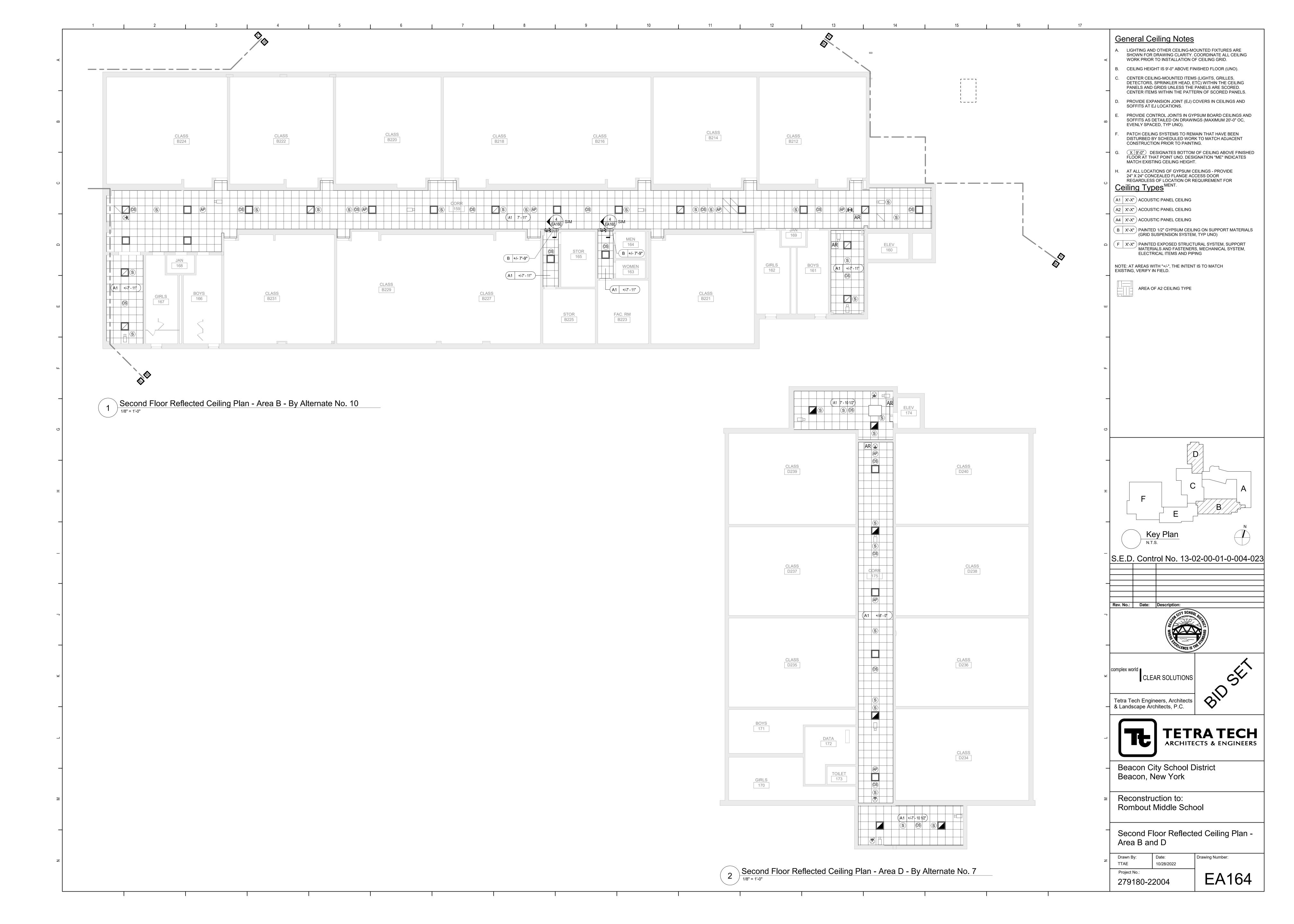


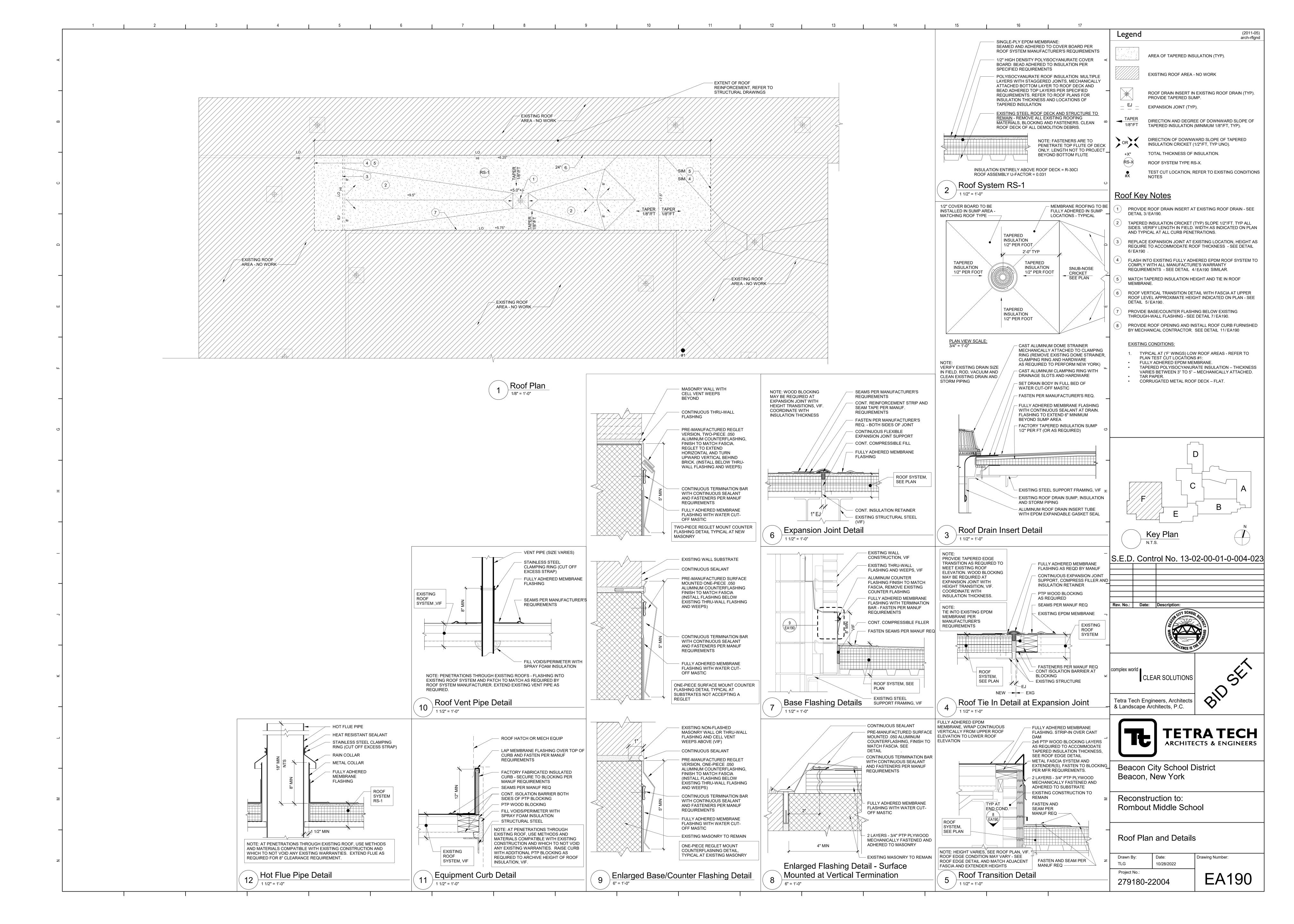


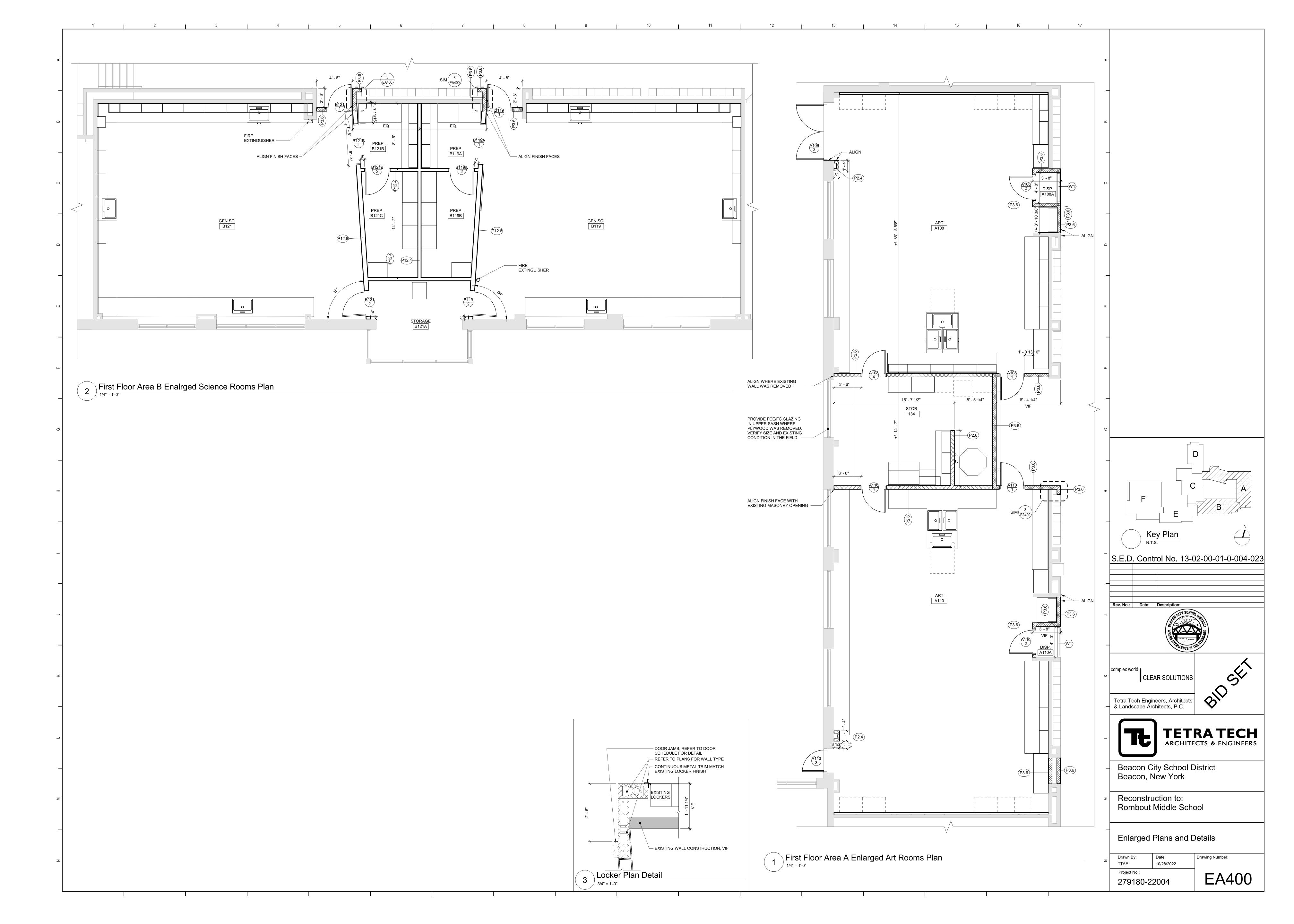


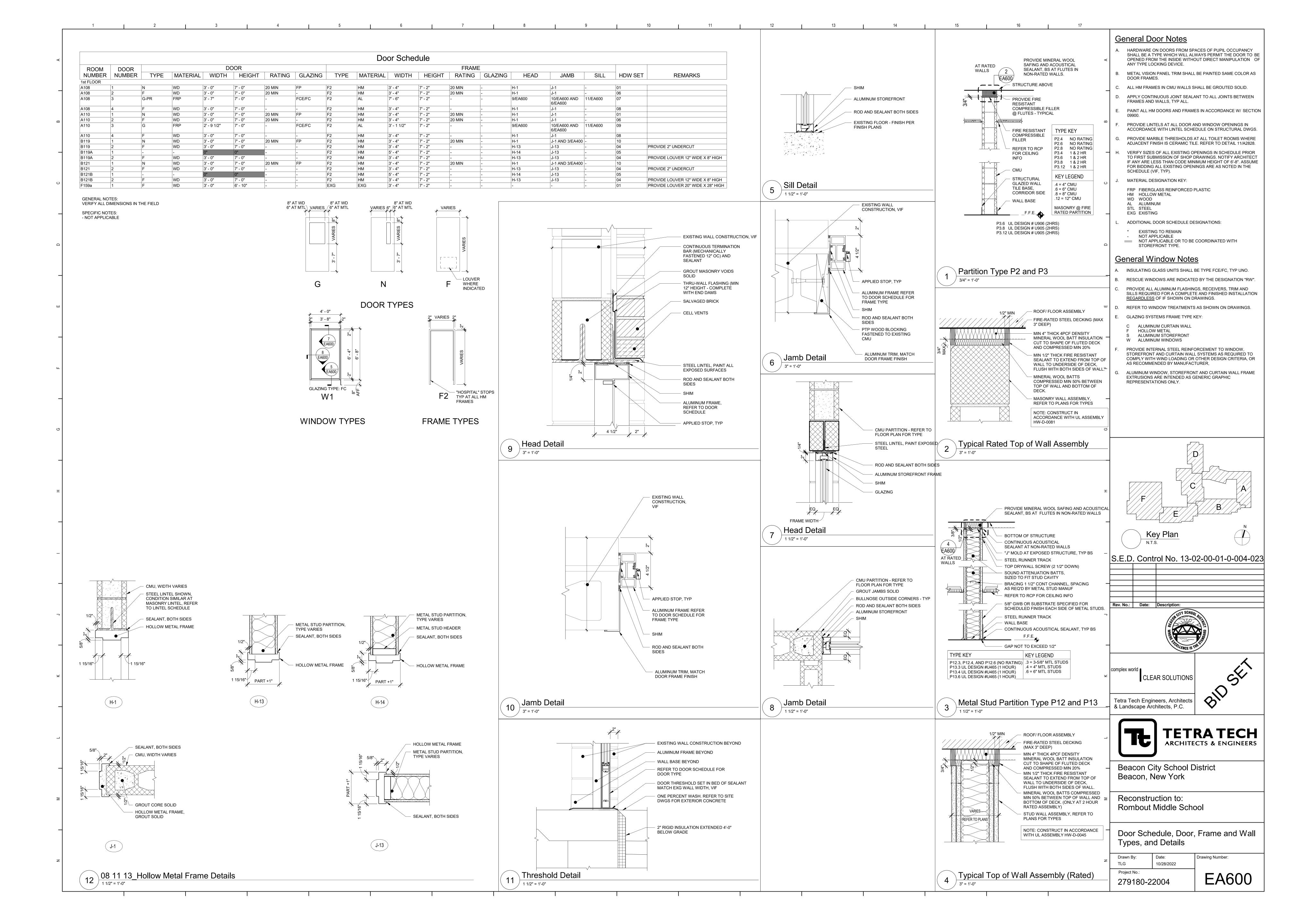


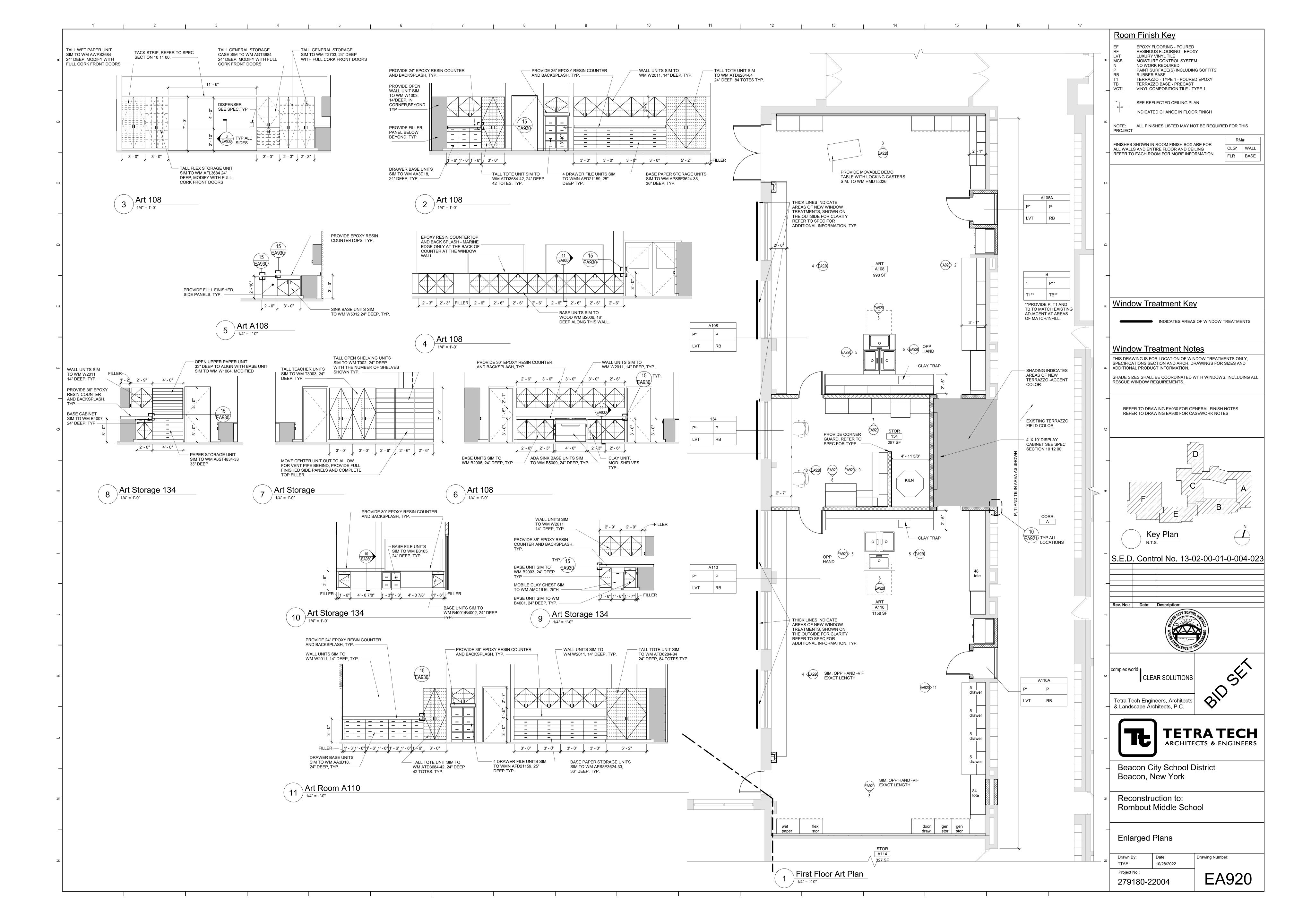


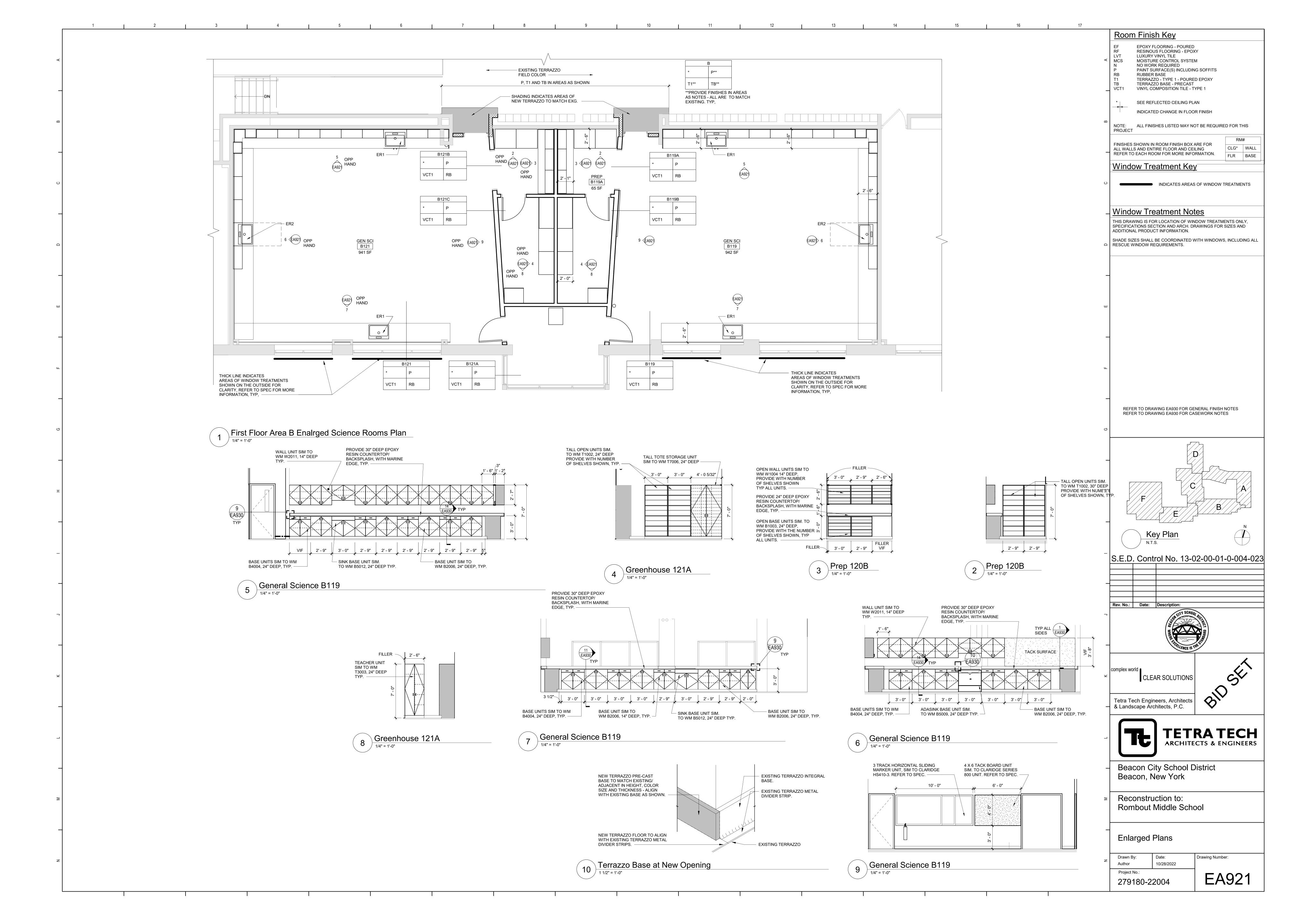












- DOOR 1/4" THICK TACKABLE MARINE EDGE TYP. AT BOTH SURFACE. SCIENCE AND ART ROOMS AT OUTSIDE WALL OF CASEWORK SOLID RUBBER — EPOXY COUNTERTOP ☐ SIM WITH MARINE **General Finish Notes** TRANSITION EA930 EDGE. THRESHOLD AT SCIENCE ĘĄ930∕ROOMS **EPOXY RESIN** SOLID SURFACE ALL FINISH PRODUCTS ARE TO BE INSTALLED IN ACCORDANCE WITH COUNTERTOP ALUMINUM EXTRUDED CONTRACT SPECIFICATION AND MANUFACTURES INSTRUCTIONS. REFER TERRAZZO -REFER TO TACK COVERING J TRIM TO SPECIFICATIONS AND FINISH DETAILS FOR ADDITIONAL INFORMATION FINISH PLANS - HEAVY DUTY METAL APPLIED AT ALL CORNERS ON INSTALLATION OF SPECIFIED MATERIALS, EA930 ROOMS SUPPORT BRACKET MITER ALL CORNERS, TYP. — A. ALL PAINTS FOR INTERIOR AND EXTERIOR ARE TO BE APPLIED IN WOOD CASEWORK ACCORDANCE WITH SPECIFICATION SECTION 09 91 00 AND 09 96 00. WOOD BEYOND CASEWORK B. ALL EXPOSED STRUCTURES, INCLUDING BUT NOT LIMITED TO PIPING AND FIREPROOFING, CONDUIT, AND ALL ASSOCIATED EQUIPMENT ARE TO BE PAINTED. THRESHOLD LVT, REFER TO FINISH UNDER DOOR APPLY PAINT TO BOTH NEW AND EXISTING ITEMS IN ALL AREAS VARIES INDICATED WITH A FINISH BOX AND/OR NOTES - THESE ITEMS ARE *REFER TO "M" DWG INCLUDING BUT ARE NOT LIMITED TO: FOR COORDINATION - FEC 'S, LADDERS, BEAMS, DOOR/FRAMES - BOTH SIDES WORK GLAZING FRAMES IN DOOR/WALLS- BOTH SIDES, ALL EXPOSED _____ REFER TO SPECIFICATIONS FOR TRANSITION TYPES. STAIR PARTS INCLUDING RAILINGS, HAND AND GUARD RAILS, REFER TO FINISH PLANS FOR ALL LOCATIONS, TYPICAL WOOD PANEL STRINGERS AND UNDERSIDES OF STAIRS, ALL ITEMS ARE TO BE THRESHOLD TO MEET ALL ADA CRITERIA ACCENT COLORS. RATED DOOR UNDERCUT DISTANCE TO MEET REQUIRED NFPA CRITERIA. **—** — ` D. PATTERNS FOR FLOORS AND WALLS ARE TO BE ISSUED DURING MARKER WALL 1/4" THICK TACKABLE THE CONSTRUCTION PHASE. DRAWINGS INCLUDING ALL ACCENT COVERING -SURFACE. LOCATIONS. SUBMIT SHOP DRAWINGS SHOWING DETAILED Threshold Detai LAYOUTS OF EACH AREA, INCLUDING EDGES AND TRANSITIONS, ALL LAYOUTS ARE TO BE CENTERED IN EACH ROOM UNO - TYP ALL DRAWINGS. ABOVE REQUIREMENTS ARE TO INCLUDE BUT NOT 16 Open Casework/ Fin Tube Section LIMITED TO: - TERRAZZO AND BASE Casework/ Fin Tube Sections - VCT - LVT TYP. TALL STORAGE CABINET W/ ADJUSTABLE ALUMINUM EXTRUDED - RUBBER SHELVES, BEHIND CABINET DOORS. TACK COVERING J TRIM **General Wood Casework Notes** APPLIED AT ALL CORNERS FIELD AND ACCENT PAINT ARE ISSUED DURING THE TYP. WALL CABINET W/ ADJUSTABLE SHELF PANEL TRIM TO RUN HORIZONTAL MITER ALL CORNERS, CONSTRUCTION PHASE CONTRACTOR IS TO ASSUME ALL FIELD BEHIND CABINET DOORS. AND VERTICAL AROUND ALL SIDES SIDE AND AND ACCENT COLORS ARE DIFFERENT ROOM TO ROOM. AS WELL FOR ALL CONTRACTOR RESPONSIBILITIES REFER TO FINISH ALL BACK SIDES TOP FILLER CABINETS LARGER THAN 36" OF WALL PANELS - MITER ALL AS WITHIN EACH ROOM, REQUIREMENTS ARE TO INCLUDE BUT ARE SPECIFICATION SECTION 01 10 00/01 12 00. AND ENDS OF CASEWORK REQUIRE CENTER DIVIDER CORNERS FOR SMOOTH FINISH. NOT LIMITED TO: ABD COUNTERTOP - WALL, FIELD COLOR HINGE SIDE GLASS DOOR INDICATION. A. THE CASEWORK SHOWN ON THE DRAWINGS IS BASED ON - WALL, ACCENT COLOR OPPOSITE WOOD METAL WOOD CASEWORK. REFER TO THE PROJECT - CEILING CLOUDS, ACCENT COLOR FASTENERS -Wall Covering Trim Detail MANUAL, SECTION 12 32 13 FOR DETAILED SPECIFICATIONS. EPOXY RESIN COUNTERTOP - SOFFITS, ACCENT COLOR COUNTERTOP WITH WITH MARINE EDGE, TYP ALL - DOOR AND WINDOW FRAMES, ACCENT COLOR **EXISTING** B. ALL STANDARD CASEWORK DIMENSIONS TO BE MODIFIED TO SIDES AT SCIENCE ROOMS. - EXPOSED COLUMNS, ACCENT COLOR BACKSPLASH. CORRESPOND WITH THE DIMENSIONS NOTED ON THE - EXPOSED DECKS, ACCENT COLOR DOOR/DRAWE DRAWINGS. FIELD VERIFY ALL DIMENSIONS PRIOR TO - EXPOSED JOISTS, ACCENT COLOR PULL, TYP. -1 " OVERHANG TYP FABRICATION OF CABINETS - EXPOSED DUCTWORK, ACCENT COLOR DOOR/DRAWEI TYP. DRAWER UNIT C. MODEL NUMBERS LISTED ON DRAWINGS APPLY TO ELEVATIONS LOCK, TYP. -F. PROVIDE PAINT AT ALL NEW SOFFITS, REFER TO REFLECTIVE SHOWN. PROVIDE OPPOSITE HAND MODELS WHERE SHOWN. CEILING PLANS FOR ADDITIONAL LOCATIONS. OPEN STORAGE UNIT RESILIENT W/ ADJUSTABLE SHELF TITUS MODEL CT-PP-3 LINEAR D. PROVIDE FULL DEPTH SHELVES AT BASE, WALL AND TALL G. ALL EXPOSED BRICK, GROUND FACE BLOCK IS TO REMAIN QUANTITY INDICATED ON DIFFUSER W/ BORDER FRAME ALUMINUM EXTRUDED CABINETS, UNLESS NOTED OTHERWISE. UNPAINTED, UNO. DRAWINGS, TYP. CONTINUOUS, PROVIDE TACK COVERING J TRIM TYP. FOUR DRAWER PENCIL-PROOF WIRE MESH APPLIED AT ALL CORNERS BASE AND TALL CABINETS ARE 24 INCHES DEEP. U.N.O. WALL FILE CABINET. -H. CONFIRM WITH OWNER AND ARCHITECT PRIOR TO PAINTING SCREEN ALONG UNDERSIDE MITER ALL CORNERS, CABINETS ARE 14 INCHES DEEP, UNO BASE CABINET DEPTH OVER MURALS ON EXISTING SURFACES. OF LOUVERS DOES NOT INCLUDE 1" COUNTERTOP OVERHANG, TYP. PROVIDE PAINT AND RUBBER BASE AT ALL NEW CHASES, REFER SEE SPECIFICATION SECTION 123216 FOR MARKER WALL PROVIDE FINISHED ENDS, BACK EXTENSIONS, SCRIBES AND WOOD BLOCKING TO NEW WORK PLANS FOR ADDITIONAL LOCATIONS. MORE INFORMATION INCLUDING CONSTRUCTION COVERING -FINISHED FILLER PANELS ON ALL CABINETS. FILLER PANELS ARE OF CASEWORK COMPONENTS. PIPE SPACE NOT TO EXCEED 3" WIDE, UNLESS NOTED OTHERWISE. PROVIDE FOR ALL RENOVATED AREAS REQUIRING FINISH WORK REMOVE. TOP AND BOTTOM FILLER PANELS AT ALL BASE & WALL UNITS. ADHESIVE -PROTECT AND REINSTALL MOVABLE EQUIPMENT INCLUDING BUT 12 Grille @ Epoxy Resin Countertop SUBMIT SHOP DRAWINGS SHOWING DETAILS OF THESE NOT LIMITED TO: BOARD UNITS, LOCKERS GYM EQUIPMENT, Typical Casework Designations CONDITIONS. SHADES/BLINDS, BOOKCASES ETC. REINSTALL IN ORIGINAL PANEL TRIM TO RUN HORIZONTAL LOCATION, OR AS NOTED ON DRAWINGS, COORDINATE WITH AND VERTICAL AROUND ALL SIDES G. ALL COUNTERTOPS TO BE EPOXY RESIN W/ MARINE EDGE OWNER. REFER TO SPEC SECTION O1 23 00 ALTERATION OF WALL PANELS - MITER ALL UNLESS NOTED OTHERWISE. BACKSPLASHES TO BE 4" HIGH, TYP. PROJECT PROCEDURES FOR MORE INFORMATION. CORNERS FOR SMOOTH FINISH. PROVIDE CAULK AT ALL JOINTS PROVIDE MARINE EDGE AT EXTERIOR GRADE PLYWOOD LOUVER LOCATIONS, TYP. K. FIELD VERIFY ALL CONTROL JOINTS LOCATIONS IN CONCRETE SUBBASE, TYP. PROVIDE 6" CHASE BEHIND SLAB. LOCATE CONTROL JOINTS IN EXG/NEW FLOOR FINISH H. RADIUS COUNTERTOPS AT NON MARINE EDGE OF EPOXY ADA SINK BASE IN AREAS REQUIRING MATERIAL DIRECTLY ABOVE SLAB JOINTS OR AS RECOMMENDED COUNTERTOPS ENDS MEETING TALL SHELVING UNITS WITH A 30" DEEP COUNTERTOPS, TYP. BY FLOORING MATERIAL MANUFACTURER. DEPTH LESS THAN COUNTERTOP DEPTH. RADIUS TO BE 1-1/2" Wall Covering Trim Detail -Top - AT NEW SLABS REFER TO STRUCTURAL DRAWINGS FOR SLAB UNLESS NOTED OTHERWISE. REFER TO DETAIL. CONTROL JOINT LOCATIONS. EXTERIOR GRADE PLYWOOD **EPOXY RESIN** - AT EXISTING SLABS, FIELD VERIFY LOCATIONS OF EXISTING SUBBASE, PROVIDE OPENINGS COUNTERTOPS PROVIDE COUNTERTOP CUT-OUTS FOR SINK, FAUCETS, AIR LAB CONTROL JOINTS. AS SHOWN. BACKSPLASH AND/OR GAS COCKS, COORDINATE WITH ALL REQUIRED - REFER TO FINISH DRAWINGS AND SPECIFICATIONS FOR NEW TYP ADA 5 1/2" FLOOR MATERIALS. DEEP SINK COORDINATE FLOOR PATTERNS WITH CONTROL JOINT PRIOR TO PROVIDE CUTS AT ALL CONDITIONS THAT INTERFERE WITH SOLID SURFACE SUBMISSION OF REQUIRED FLOOR PATTERN DRAWINGS. COUNTERTOPS/CABINETS: SCRIBE TO FIT. **FACE PANEL - VERIFY** LENGTH IN FIELD PROVIDE INSTALLER IS TO FIELD VERIFY ALL EXG AND NEW FLOOR DRAIN K. PROVIDE THE FOLLOWING AT EACH SCIENCE ROOM: REMOVABLE LOCATIONS IN ALL EXG AND NEW SLABS AS PART OF THIS PRECAST TERRAZZO WALL - FIRE BLANKET WITH STEEL CABINET ACCESS PANEL PROJECT. BASE -FIRST AID KIT WITH WALL KIT * REFER TO ARCHITECTURAL DRAWINGS FOR FLOOR DEMO REFER TO SPEC SECTION FOR MORE INFORMATION. AREAS AND REQUIREMENTS. WOOD PIPE PANEL RESILIENT * REFER TO PLUMBING DRAWINGS FOR EXG AND NEW FLOOR RUN FULL LENGTH BASE ALL SINKS AND ACCESSORIES ARE AS PER SPECIFICATION DRAIN LOCATIONS. OF OPENING 1/2" SECTION 22 42 16.16 WITH THE EXCEPTION OF EPOXY RESIN * REFER TO STRUCTURAL DRAWINGS FOR LOCATIONS OF SLAB CONT. GRILLE TITUS #CT-PP-0 AFF SECURE TO SINKS. EPOXY RESIN SINK SIZES ARE AS FOLLOWS: (ID) DEPRESSIONS. W/ BORDER FRAME FULL LENGTH **UNIT PER** TYPE "ER1"- 24 X 16 X 8 * REFER TO FINISH DRAWINGS FOR LOCATIONS OF NEW FLOOR AND HEIGHT OF BASE. COLOR TO MANUFACTURER TYPE "ER2"- 24 X 16 X 4" ADA FINISH MATERIALS AND FLOORING SLOPE. BE SELECTED BY ARCHITECT. MITERED CORNERS AT ALL * REFER TO FINISH MATERIAL SPECIFICATION SECTIONS FOR 34" AFF W/27" CLR SECURE TO SUBBASE M. PROVIDE AT ALL UV SHELVING LOCATIONS-REMOVABLE BACKS INSIDE AND OUTSIDE CORNER SLAB DEPRESSION DEPTH REQUIREMENTS. GRADES 7-12 **VARIES** IN CABINETS AT PLUMBING AND FIN TUBE VALVE LOCATIONS. CONDITIONS. MAX 1/8" JOINT VERIFY POSITIONS OF VALVES PRIOR TO SHOP FABRICATION OF PAINT BASE M. PROVIDE ALL FINISHES AS INDICATED BY ROOM FINISH BOX ALL CABINETS. BLACK, TYP. AND/OR AS NOTED ON DRAWINGS. N. PROVIDE SHOP DRAWINGS SHOWING LOCATIONS AND DETAILS 45 DEGREE MITERED CORNER AT ALL DOOR FRAMES WITH A FOR ALL GRILLES, LOUVERS, REMOVABLE PANELS, VALVE 3/4" PROJECTION OR LESS LOCATIONS ECT. ASSOCIATED WITH CASEWORK COORDINATE WITH ALL REQUIRED CONTRACTORS. S.E.D. Control No. 13-02-00-01-0-004-023 PROVIDE CABINETS WITH FINISHED SIDES, INCLUDING BUT NOT PROVIDE CLEAR NON-GLARE SURFACE: LIMITED TO, LOCATIONS OF ADJACENT CABINETS OR EQUIPMENT MILDEW RESISTANT, CAULK JOINT WITH A DEPTH LESS THAN CABINET OR EQUIPMENT. WATERTIGHT *TYPICAL FOR ENTIRE SIGN 9 \ AT SCIENCE SILICON SEALANT, PROVIDE ALL STANDARD FEATURES OF CASEWORK UNITS AS EPOXY COUNTERTOP FA930 ROOMS MIN ASTM C-920 INDICATED BY MODEL NUMBER OR AS SHOWN ON PLANS, CLASS 25 TACTILE CHARACTERS: DETAILS AND ELEVATIONS, INCLUDED BUT NOT LIMITED TO: WALL/CABINET OUTLETS, SWITCHES, LIGHTS ETC. Terrazzo Base w/ Mitered Corner *5/8" MINIMUM CAP LETTER ₹A930 ROOMS OR OUTSIDE HEIGHT PROVIDE BLOCKING AT NEW AND EXISTING GYPSUM BOARD CORNER ROOM *1" MINIMUM NUMBER HEIGHT The state of the s Rev. No.: Date: Description: WALLS PER MANUFACTURER RECOMMENDATIONS FOR SUPPORT *RAISED 1/32" MINIMUM OF WALL /TALL MOUNTED UNITS. REFER TO SPECIFICATION *FULL CAPS SECTION 06 10 00 FOR WOOD BLOCKING RESPONSIBILITIES. *SAN SERIF TYPE STYLE REFER TO FINISH PLAN FOR WALL *CHARACTERS MUST CASEWORK BACKSPLASH R. PROVIDE LOCKS AT ALL CASEWORK DOORS/DRAWERS AND FILE CONTRAST WITH BACKGROUND TYP ALL SIDES XXXXXX BACKSPLASH PROVIDE AS NOTED ON DRAWINGS AND DETAILS: 2" GROMMETS AT OPEN BASE COUNTERS 30"/36" OC, WIRE MANAGEMENT AND COUNTERTOP - CAULK JOINT **VARIES** CABLE TRAYS. PRECAST TERRAZZO BASE. MITER AT ALL REFER TO "M" DWGS PROVIDE ALL CUTOUTS AS SHOWN ON CASEWORK PLANS AND FOR COORDINATION INSIDE AND OUTSIDE CORNERS. RUN BASE ELEVATIONS OR AS REQUIRED. CUTOUTS ARE TO INCLUDE BUT **AXONOMETRIC VIEW** FULL LENGTH OF WALLS-WORK NOT LIMITED TO: ALL ELEC BOXES, OUTLETS, AND ASSOCIATED BOTH SIDES. RUBBER BASE ALIGN END OF WIRING AND FINAL HOOK-UP. BACKSPLASH PROVIDE SEALANT AT ALL SIDES/BACKSPLASH === **CLEAR SOLUTIONS** 4" OR 8" PRECAST BASE - REFER TO W/ FACE OF U. PROVIDE REMOVABLE BACK PANELS AT ALL SINK BASE CABINETS, AND BACKSPLASH/WALL LOCATIONS TYP. FINISH PLANS FOR TYPES WALL OR CABINET INCLUDING ADA STATIONS. ALL COUNTERTOPS, ALL LOCATIONS, ALONG CAULK JOINT ALL WALLS. NOTE: COUNTERTOPS WITHOUT - CLASSIC BEVEL BACKSPLASHES ARE TO BE PROVIDED WITH V. REFER TO BOTH 1/8" AND 1/4" PLANS FOR LAYOUTS. \ Casework/ Fin Tube Sections W/ RADIUS TERRAZZO FLOORING - REFER TO FINISH SEALANT WALL/COUNTER LOCATIONS, TYP. Tetra Tech Engineers, Architects PLANS FOR TYPE AND STRUCT. DWGS FOR SLAB DEPRESSION DEPTH & Landscape Architects, P.C. Epoxy Countertop Edge Detail at Science Rooms PROVIDE CLEAR MILDEW RESISTANT, WATERTIGHT **TETRA TECH** SILICON SEALANT MIN ASTM C-920 EPOXY SURFACE SEAMS ARE TO BE CLASS 25 FLUSH, ALIGNED AND LEVEL ON ALL SIDES. **ARCHITECTS & ENGINEERS** EPOXY RESIN SEAMS ARE TO BE NO MORE THAN WALL/CABINET **GRADE 2 BRAILLE** 1/8" WIDE. SEE SPEC FOR MORE INFORMATION, OR OUTSIDE \ Terrazzo Base CORNER Beacon City School District TYPE 5 - Typical Permanent Room Plaque Beacon, New York BACKSPLASH TYP ALL SIDES BACKSPLASH Reconstruction to: COUNTERTOP Rombout Middle School **AXONOMETRIC VIEW** ALIGN END OF PROVIDE SEALANT AT ALL SIDES/BACKSPLASH == AND BACKSPLASH/WALL LOCATIONS TYP. Miscellaneous Details WALL OR CABINET ALL COUNTERTOPS, ALL LOCATIONS, ALONG NOTE: ALL BACKSPLASHES MUST ALL WALLS. NOTE: COUNTERTOPS WITHOUT ALIGN AT TOP, DESPITE CHANGE CLASSIC BEVEL BACKSPLASHES ARE TO BE PROVIDED WITH IN COUNTERTOP HEIGHT. DETAIL W/ RADIUS SEALANT WALL/COUNTER LOCATIONS, TYP. TYPE FOR PLAM, EPOXY AND SOLID Drawing Number: Drawn By: SURFACE COUNTERTOPS.

\ Epoxy Countertop Non Marine Edge Detail at Art Rooms

10 Backsplash Detail @ Countertop

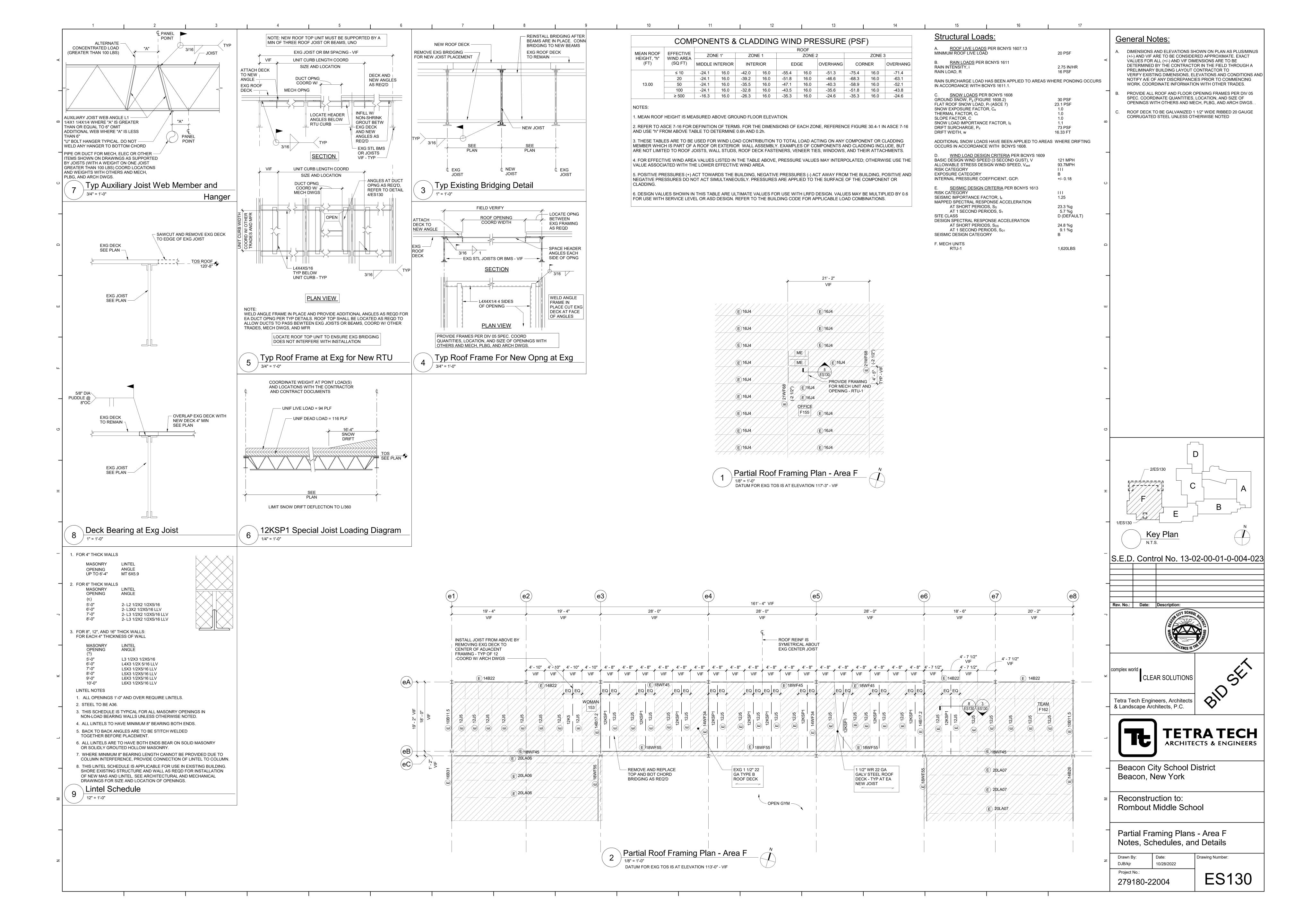
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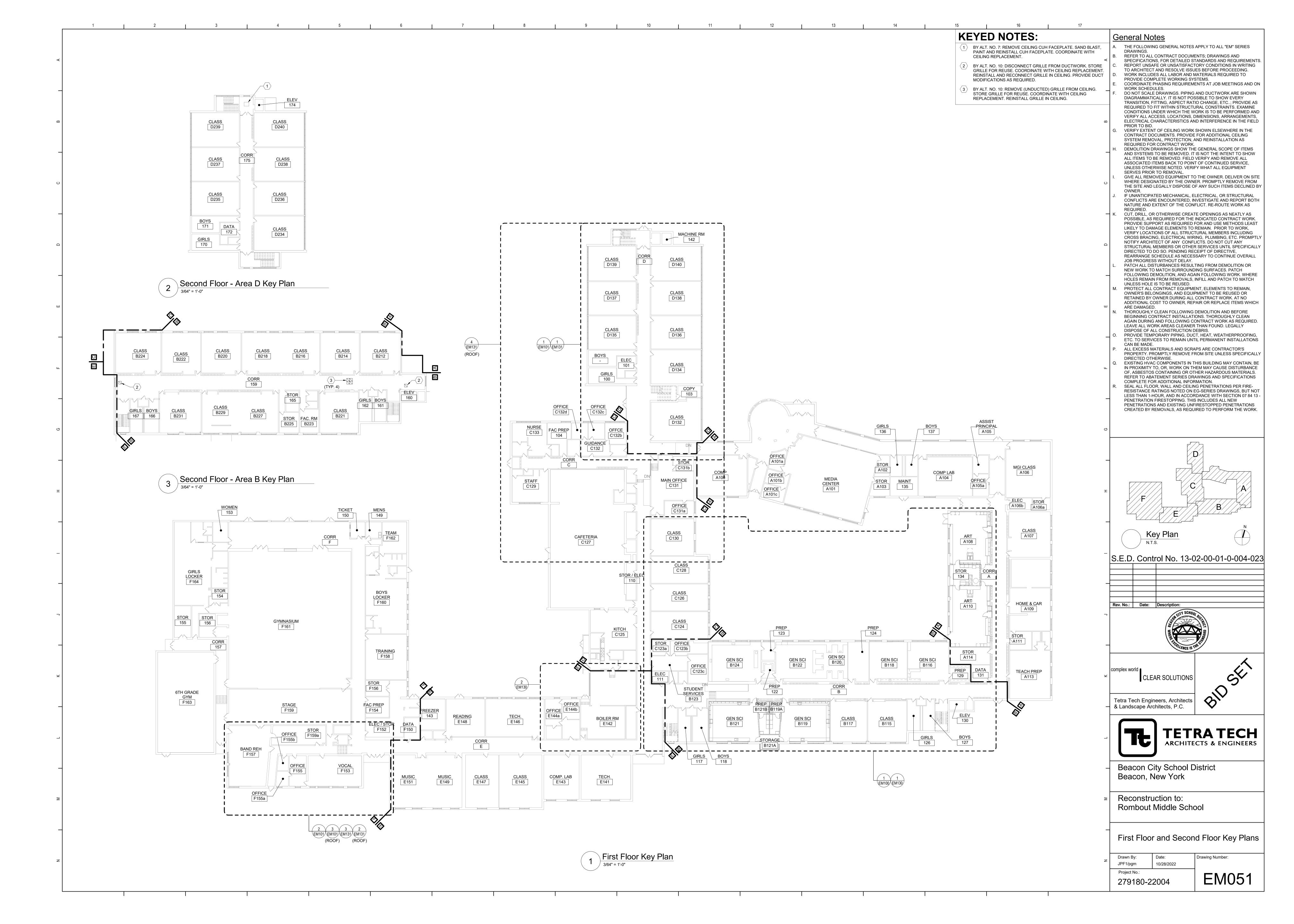
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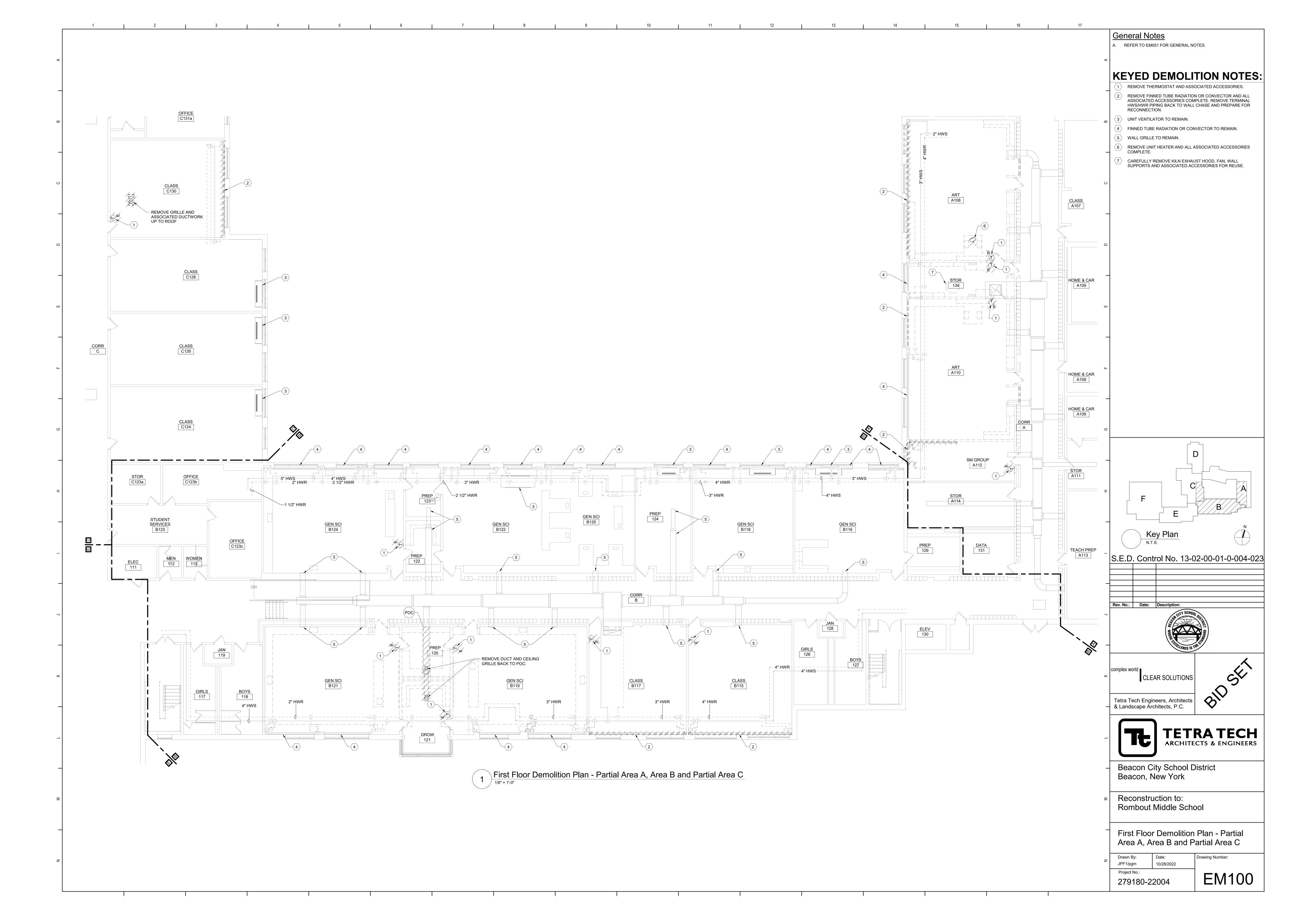
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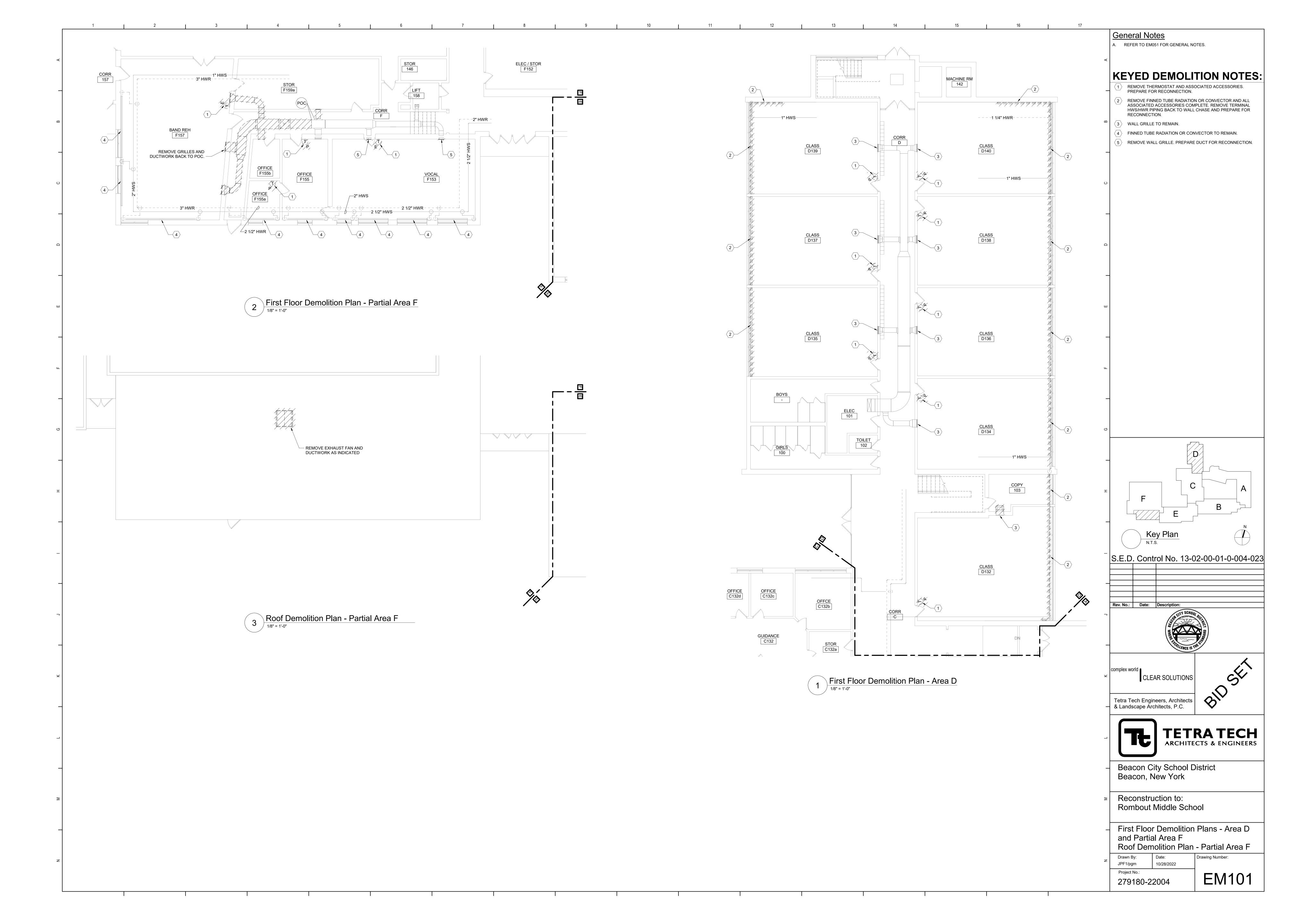
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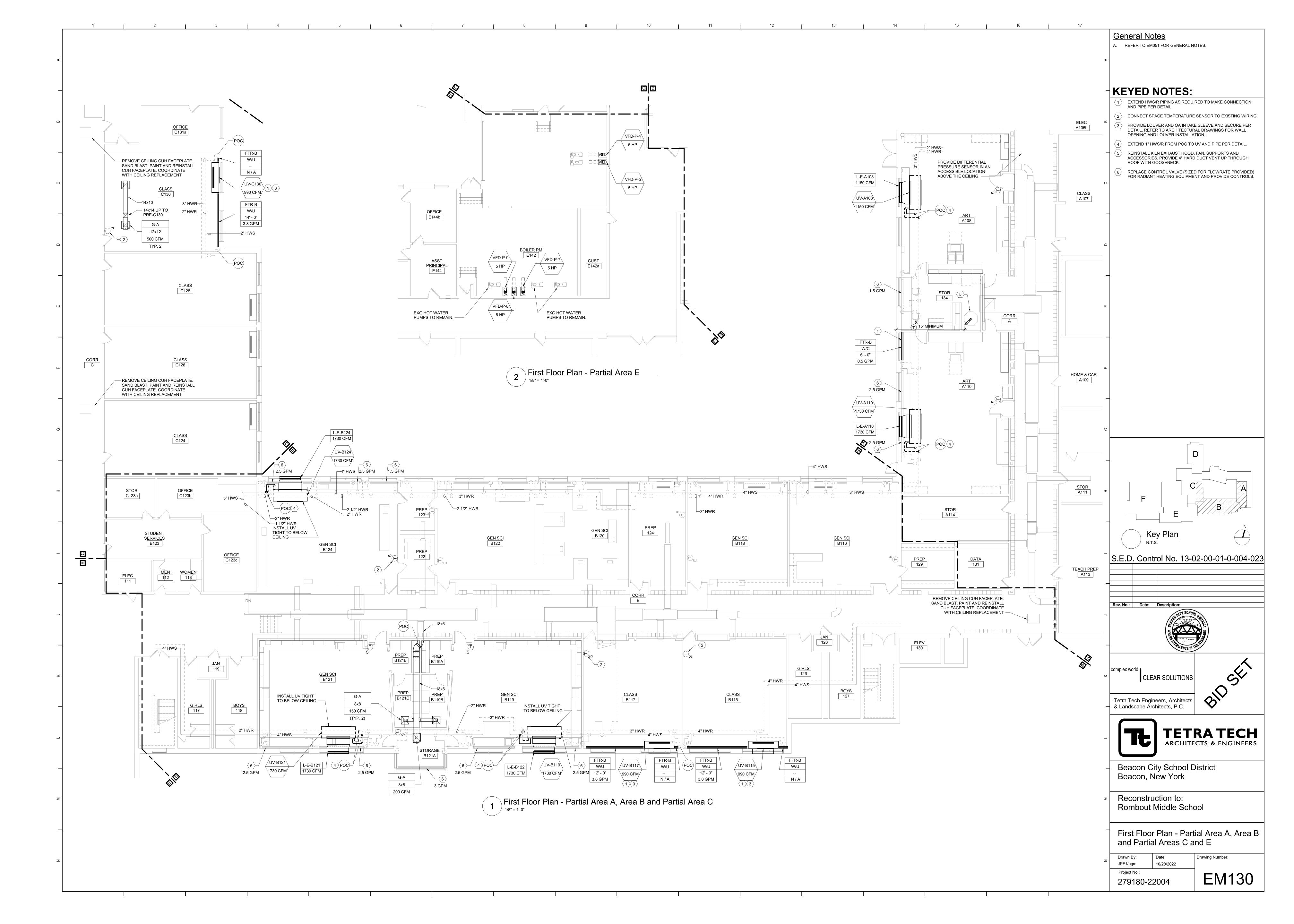
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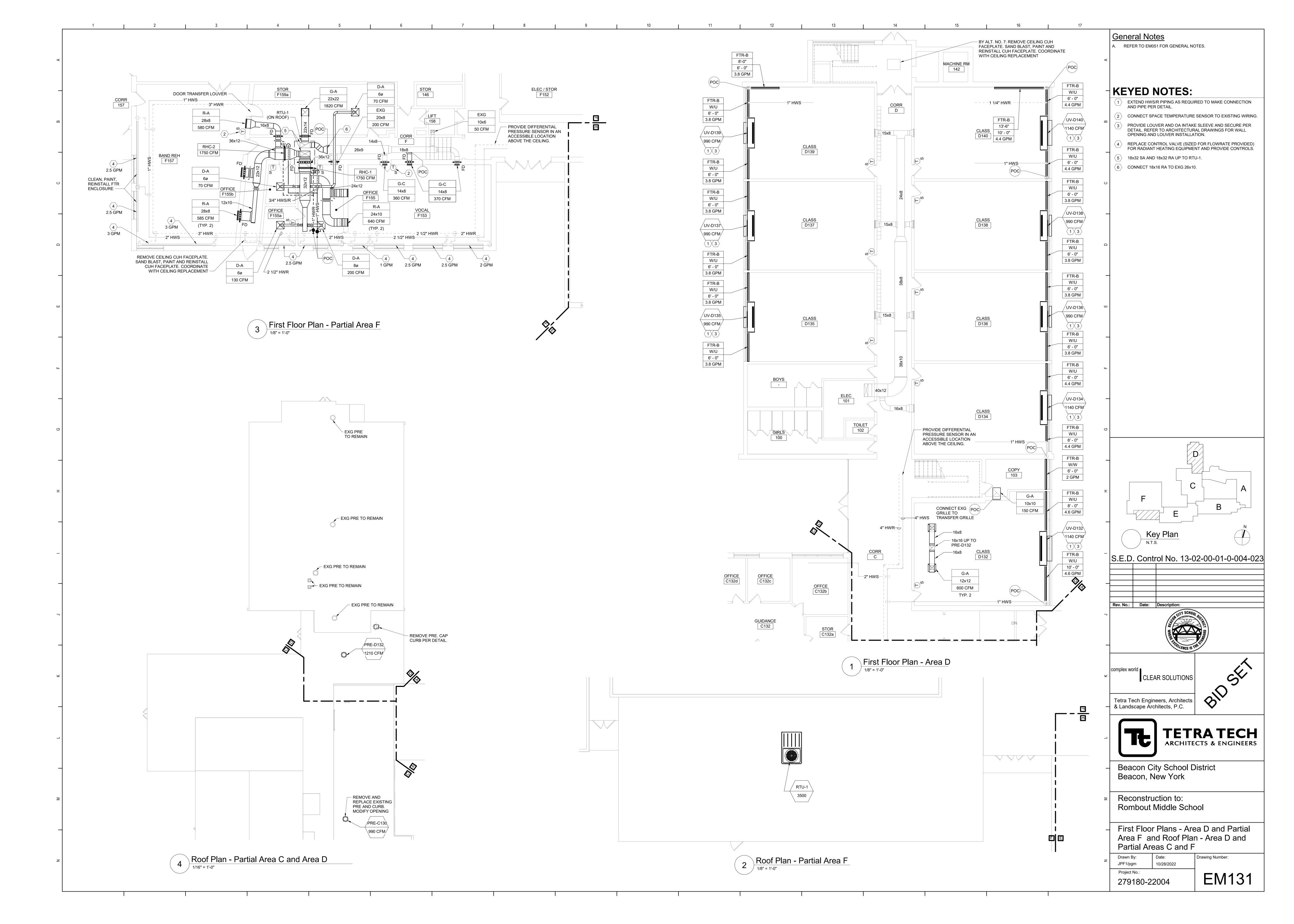


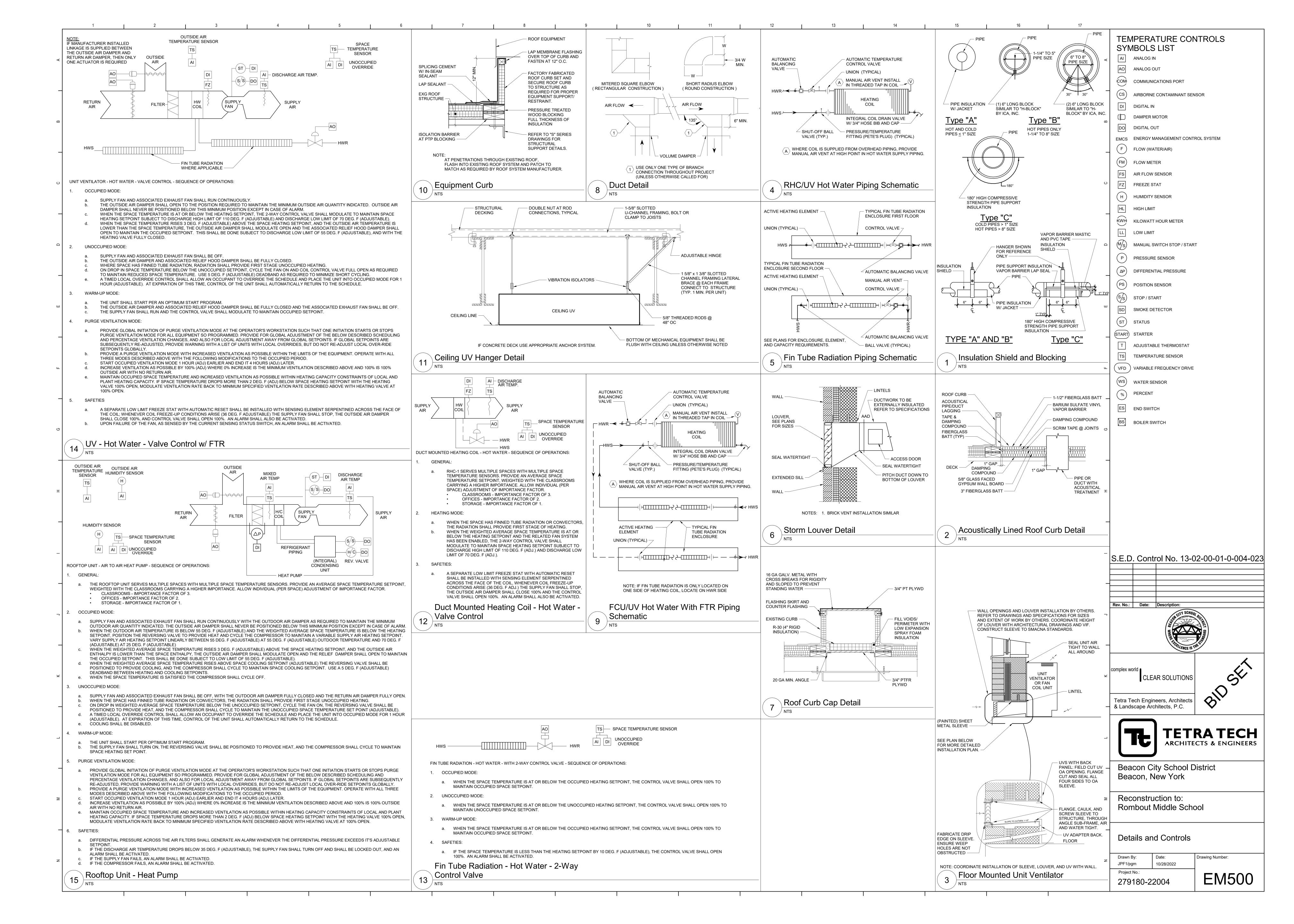


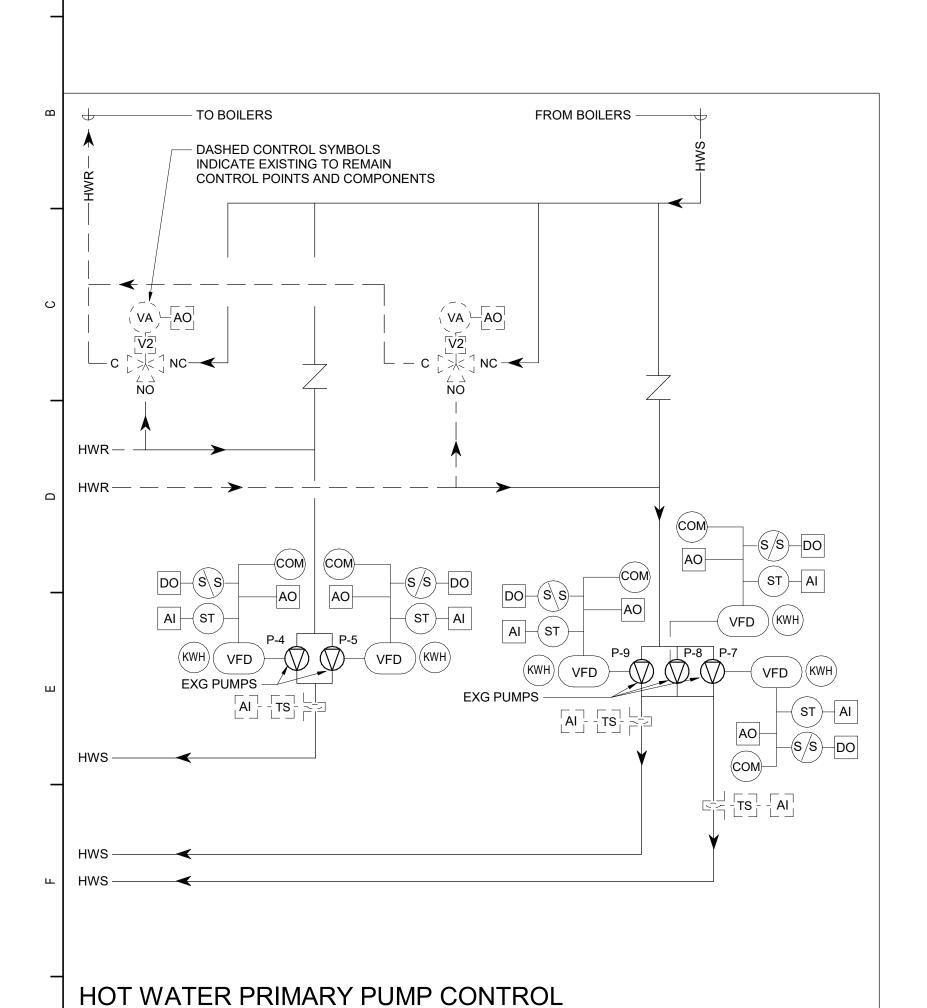












BUILDING HEATING PUMP SPEED CONTROL

CONTROL THE VARIABLE FREQUENCY DRIVES TO VARY THE POWER FREQUENCY TO THE BUILDING HEATING PUMPS P-7/P-8/P-8 AND P-4/P-5. THE GENERAL CONTROL SCHEME IS TOMINIMIZE PUMP POWER AND RPM WHILE KEEPING THE MOST DEMANDING ZONE SATISFIED.

- CONTROL THE DRIVE'S FREQUENCY USING THE COMBINED INPUT TO THE EMCS FROM THE PERCENTAGE OPEN POSITION OF ALL CONTROL VALVES MODULATING FLOW OF WATER TO THEIR RESPECTIVE LOADS. MAINTAIN A REAL TIME LOG OF THE PERCENTAGE OPEN POSITION OF ALL PRIMARY / SECONDARY WATER CONTROL VALVES.
- a. WHEN BOTH THE HEATING SYSTEM IS ENABLED AT THE OWS AND ON CALL FOR BUILDING HEAT AS DEFINED BY A CV WEIGHTED AVERAGE HEATING WATER VALVE POSITION OF AT LEAST 15% OPEN (ADJ. AT OWS), START A
- BUILDING HEATING VARIABLE SPEED PUMP (P-7/P-8/P-8 AND P-4/P-5) AND CONTROL AS FOLLOWS. b. ON INITIAL START OF PUMP, RAMP TO MINIMUM FREQUENCY OF 15HZ (ADJ.).ADJUST DURING COMMISSIONING TO MINIMUM VALUE RECOMMENDED BY MANUFACTURER.
- c. WHEN ANY (ENABLED) CONTROL VALVE, OR THE AVERAGE OF ANY ADJUSTABLE NUMBER OF THE MOST DEMANDING VALVES, IS CALLING FOR MORE THAN 95% OPEN POSITION, RAMP THE VARIABLE SPEED DRIVE TO INCREASED POWER FREQUENCY AT THE RATE (ADJUSTABLE AT THE OWS) OF +5HZ PER MINUTE.

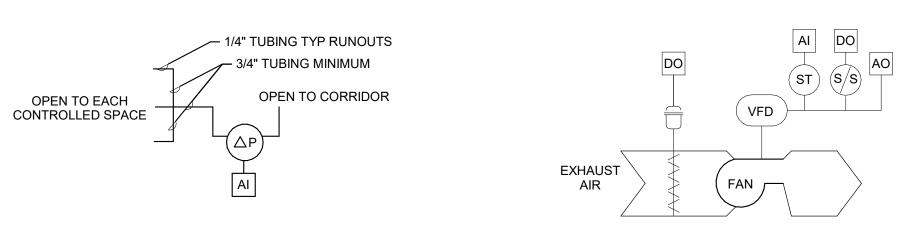
d. WHEN NO (ENABLED) CONTROL VALVE IS CALLING FOR MORE THAN 90% OPEN POSITION, OR THE AVERAGE OF

- ANY ADJUSTABLE NÚMBER OF THE MOST DEMANDING VALVES IS CALLING FOR NO MORE THAN 90% OPEN POSITION, RAMP THE VARIABLE FREQUENCY DRIVE TO DECREASED POWER FREQUENCY AT THE RATE (ADJUSTABLE AT THE OWS) OF -2HZ PER MINUTE. e. IF ANY CONTROL VALVE RÉMAINS MOST OPEN AS THE CRITICAL ZONE AT MORE THAN DOUBLE THE
- FREQUENCY (ADJ.) OF THE NEXT MOST CRITICAL ZONE, INITIATE AN ALARM AT THE OWS, INCLUDING PROMPTS TO INVESTIGATE THE PROBLEM BY REBALANCING, ADJUSTING SETPOINTS, ETC.. ALLOW FOR ANY SUCH ZONES TO BE DISABLED FROM THE CALCULATIONS RAMPING THE DRIVE UNTIL THE PROBLEM IS CORRECTED (BUT
- ENSURE THAT IT STILL IS ENABLED TO OPEN ON CALL FOR HEAT!). MEASURE THE LOOP FLOWRATE VIA DIFFERENTIAL PRESSURE SENSORS PLACED 2/3 OUT IN SYSTEM.
- PROVIDE MANUAL OVERRIDES AT THE DRIVES AS REQUIRED TO PERMIT TEMPORARY MANUAL ADJUSTMENT OF SUPPLY WATER FLOW. IF THIS OCCURS, THE CONTROL PANEL ALARM SYSTEM SHALL INITIATE A PROPERLY ANNUNCIATED ALARM CONDITION.
- THE EMCS SHALL HAVE AUTOMATIC, ADJUSTABLE, LEAD LAG CAPABILITY TO PERMIT SWITCHING BETWEEN PUMPS. IF THE LEAD PUMP CANNOT MAINTAIN THE REQUIRED FLOW, THE EMCS SHALL SWITCH LEAD AND LAG PUMPS AND

CAUSE AN ALARM TO BE OUTPUT TO THE OWS. BOILER RETURN WATER TEMPERATURE CONTROL:

MODULATE THE 3-WAY MIXING VALVE TO MAINTAIN MINIMUM 120 DEG. F RETURN WATER TEMPERATURE TO PROVIDE PROTECTION AGAINST THERMAL SHOCK FOR THE BOILERS

\ Hot Water Pump Control



EXHAUST/RELIEF FAN - VARIABLE SPEED - SEQUENCE OF OPERATIONS:

OPEN THE FAN DAMPER. PROVIDE A DIFFERENTIAL PRESSURE SENSOR MEASURING THE DIFFERENCE BETWEEN THE AVERAGE SPACE PRESSURE IN SPACES SERVED BY THE ASSOCIATED VENTILATION EQUIPMENT AND THE ADJACENT CORRIDOR AIR PRESSURE. MODULATE THE EXHAUST/RELIEF FAN VSD AS REQUIRED TO MAINTAIN THE OCCUPIED SPACES AT A SLIGHT POSITIVE PRESSURE OF +0.01 TO +0.05"WG (ADJUSTABLE) RELATED TO THE ADJACENT CORRIDOR. THE EXHAUST/RELIEF FAN SPEED SHALL NOT EXCEED THE MAXIMUM SPEED DETERMINED BY THE AIR BALANCER TO DELIVER THE ECONOMIZER (MAXIMUM) CFM AS SCHEDULED FOR THE RELIEF/EXHAUST FAN.

- UNOCCUPIED MODE:
- a. THE FAN SHALL BE OFF AND AUTOMATIC AIR DAMPER SHALL BE CLOSED.
- WARM-UP MODE:
- a. THE FAN SHALL BE OFF AND AUTOMATIC AIR DAMPER SHALL BE CLOSED.
- SAFETIES:
 - UPON A FAILURE OF THE FAN, AS SENSED BY A CURRENT SENSING STATUS SWITCH, AN ALARM SHALL BE ACTIVATED.

Variable Speed Exhaust/Relief Fan

							PAC	KAGE	D ROO	FTOP	UNI	T (RT	U) :	SCHE	DULE	=														
								HEATING	G DATA				COOI	ING DATA			SUP	PLY FAN		COM	PRESSOR	DATA	EL	ECTRI	CAL DAT	A				
				SUPPLY	,					HEATING															1				OPER.	
DWG	DESIGN MAKE:			AIR	MIN. OA	EAT	AMBIENT	AMBIENT	HEATING	CAPACIT	/ EDB	EWB LDE	3 LWE	B AMBIENT		SC	ESP				COMP. 1	COMP. 2			1		REFRIGERANT		WEIGHT	
LABEL	TRANE MODEL	SERVES	SIZE	(CFM)	(CFM)	(°F)	DB (°F)	DB (°F)	TYPE	(MBH)	(°F)	(°F) (°F) (°F)	DB (°F)	(MBH)	(MBH) ((IN. WG)	RPM	HP	TYPE	(RLA)	(RLA)	MCA	MOP	VOLT.	PH	TYPE	EER	(lbs)	NOTES
RTU-1	WHC120H3R0A	BAND REH F157 AND VOCAL F153, OFFICES F155, F155A, F155B	10 TON	3500	1600	39.4	9.1	6.9	HEAT PUMP	62.7	80.7	68.0 59.	1 57.5	96.4	122.4	87.4	0.60	1392	2.75 S	CROLL	17.6	16.0	49	60	208 V	3	R-410a	16.0	1617	1-4
NOTES:																														
1. PRO	OVIDE LOW LEAK EO	CONOMIZER WITH MOTORIZED RELIEF, 2" MERV8.						3.	PROVIDE TRA	NSFORME	R AND P	OWERED	GFCI S	SERVICE OU	TLET (W	IRED IN F	RONT OF	DISCO	INECT S	SWITCH)).									
2. PRO	OVIDE FIELD OR FAC	CTORY NEMA 3R DISCONNECT SWITCH.							PROVIDE 24" F						•					,										

						HEATI	NG DATA	4	HW	/ COIL	ESP			[ELECTRICA	L			
					NO.	EAT	LAT	CAP.		WPD	(IN.		MOTOR	MOTOR SIZE					
EQUIP NO.	LOCATION	MODEL NO.	SA CFM	MIN. OA	ROW	(°F)	(°F)	(MBH)	GPM	(FT HD)	WG.)	RPM	QTY	(HP)	V/PH	FLA	MCA	MOP	NOTES
UV-A108	ART A108	HUVC150	1150	490	2	42.2	113.6	85.2	4.3	2.36	0.00	870	1	1	120V/1ø	12.0	15.0	25	1,3-8,10
UV-A110	ART A110	HUVC200	1730	570	2	47.0	107.8	108.9	5.5	3.66	0.00	875	1	1	120V/1ø	12.0	15.0	25	1,3-8,10
UV-B115	CLASS B115	VUVE125	990	400	2	41.8	112.6	75.9	3.8	2.25	0.00	1120	2	0.25	120V/1ø	7.0	9.0	15	1,2,4-7,9,10
UV-B117	CLASS B117	VUVE125	990	400	2	41.8	112.6	75.9	3.8	2.25	0.00	1120	2	0.25	120V/1ø	7.0	9.0	15	1,2,4-7,9,10
UV-B119	GEN SCI B119	HUVC200	1730	520	2	48.9	108.4	106.5	5.3	3.52	0.00	875	1	1	120V/1ø	12.0	15.0	25	1,3-8,10
UV-B121	GEN SCI B121	HUVC200	1730	520	2	48.9	108.4	106.5	5.3	3.52	0.00	875	1	1	120V/1ø	12.0	15.0	25	1,3-8,10
UV-B124	GEN SCI B124	HUVC200	1730	560	2	47.4	107.8	108.9	5.5	3.66	0.00	875	1	1	120V/1ø	12.0	15.0	25	1,3-8,10
UV-C130	CLASS C130	VUVE125	990	400	2	41.8	112.6	75.9	3.8	2.25	0.00	1120	2	0.25	120V/1ø	7.0	9.0	15	1,2,4-7,9,10
UV-D132	CLASS D132	VUVE150	1140	510	2	41.4	115.0	91.0	4.6	3.94	0.00	1120	2	0.25	120V/1ø	7.0	9.0	15	1,2,4-7,9,10
UV-D134	CLASS D134	VUVE150	1140	440	2	45.1	116.4	88.1	4.4	3.76	0.00	1120	2	0.25	120V/1ø	7.0	9.0	15	1,2,4-7,9,10
UV-D135	CLASS D135	VUVE125	990	410	2	41.2	112.3	76.3	3.8	2.27	0.00	1120	2	0.25	120V/1ø	7.0	9.0	15	1,2,4-7,9,10
UV-D136	CLASS D136	VUVE125	990	420	2	40.5	112.0	76.8	3.8	2.3	0.00	1120	2	0.25	120V/1ø	7.0	9.0	15	1,2,4-7,9,10
UV-D137	CLASS D137	VUVE125	990	410	2	41.2	112.3	76.3	3.8	2.27	0.00	1120	2	0.25	120V/1ø	7.0	9.0	15	1,2,4-7,9,10
UV-D138	CLASS D138	VUVE125	990	420	2	40.5	112.0	76.8	3.8	2.3	0.00	1120	2	0.25	120V/1ø	7.0	9.0	15	1,2,4-7,9,10
UV-D139	CLASS D139	VUVE125	990	420	2	40.5	112.0	76.8	3.8	2.3	0.00	1120	2	0.25	120V/1ø	7.0	9.0	15	1,2,4-7,9,10
UV-D140	CLASS D140	VUVE150	1140	440	2	45.1	116.4	88.1	4.4	3.76	0.00	1120	2	0.25	120V/1ø	7.0	9.0	15	1,2,4-7,9,10

DESIGN BASIS: TRANE HOT WATER COIL CONDITIONS: EWT=160°F, LWT=120°F FLOOR MOUNTED UNIT ADJUST UV FAN SPEED TO PROVIDE SCHEDULED SUPPLY AIR QUANTITY. 10. NEMA 1 DISCONNECT SWITCH CEILING MOUNTED UNIT VERIFY PIPE AND ELECTRICAL LEFT/RIGHT HAND CONNECTIONS PRIOR TO ORDERING. PROVIDE 1" MERV13 FILTER. 8. PROVIDE RETURN AIR BOTTOM INLET GRILLE.

9. UNIT 21-1/4" DEEP W/CLOSED PIPE TUNNEL.

			F	FAN	(PF	RE-) S	SCHE	DUL	 E						
			-		\			N DATA				ELE	CTRICAL	-	
DWG LABEL	SERVES	TYPE	MODEL NO.	MIN CFM	MAX CFM	SP (IN WG)	SONES	RPM	TIP SPEED (FPM)	DRIVE	ВНР	HP	FLA	V/PH	NOTES
PRE-D132	CLASS D132	DOWNBLAST CENTRIFUGAL	165C17D	580	1210	0.25	3.8	613	2650	DIRECT (EC)	0.08	1/8	1 A	120 V/1ø	1-4
PRE-C130	CLASS C130	DOWNBLAST CENTRIFUGAL	150C17D	400	990	0.25	3.7	671	2640	DIRECT (EC)	0.065	1/8	1 A	120 V/1ø	1-4
2. PRO 3. PRO	SIGN BASIS: LOF OVIDE 14" CURB OVIDE NEMA 1 D NES, TIP SPEED	S.	OWABLE. CFM	1, SP AN	ND OPE	NING AR	E MINIMUI	Л ALLOV	VABLE.						

			L	OUVE	ER (L)	SC	HEDULE	=			
DWG	050/50	MODEL	TVDE	LENGTH	HEIGHT	DEPTH	FREE AREA	AIRFLOW	VELOCITY	MAX APD	NOTEO
LABEL	SERVES	NO.	TYPE	(IN)	(IN)	(IN)	(S.F.)	(CFM)	(FPM)	(IN WG)	NOTES
L-E-A108	UV-E-A108	ESD-635	INTAKE	62	12	6	1.3	600	460	0.13	1-5
L-E-A110	UV-E-A110	ESD-635	INTAKE	64	14	6	1.9	1730	910	0.13	1-5
L-E-B121	UV-E-B121	ESD-635	INTAKE	64	14	6	1.9	1730	910	0.13	1-5
L-E-B122	UV-E-B122	ESD-635	INTAKE	64	14	6	1.9	1730	910	0.13	1-5
L-E-B124	UV-E-B121	ESD-635	INTAKE	64	14	6	1.9	1730	910	0.13	1-5
NOTES:											
1. DE	SIGN BASIS:	GREENHEC	K		;	5. F	ROVIDE WITH	I ALUMINUN	/I BIRDSCRE	EN IN	
2. PR	OVIDE WITH	KYNAR FIN	ISH.			F	REMOVABLE F	RAME.			
3. CO	LOR TO BE S	SELECTED E	BY ARCHIT	ECT.							
4. PR	OVIDE WITH	EXTENDED	SILL.								

											AIR	SIDE DA	ΛTA			HYDRO	NIC DA	ATA	Í
DWG			EQUIP		DUCT	FACE	FACE	TUBE WALL	NO.		APD	EAT	LAT	HEATING	HWS	HWR		WPD	
_ABEL	SERVES	LOCATION	SERVED	MODEL NO.	SIZE	AREA	VELOCITY	THICKNESS	ROWS	AIRFLOW	(in-wg)	(°F)	(°F)	CAPACITY (MBH)	(°F)	(°F)	GPM	(ftH2O)	NOT
RHC-1	VOCAL F153, OFFICES F155, F155A, F155B	OFFICE F155	RTU-1	D5WB	36x12	3.00 SF	583 FPM	0.020	1	1750 CFM	0.16	45.0	75.0	56.94	160	120	2.9	0.5	1-2
RHC-2	BAND REH F157	OFFICE F155B	RTU-1	D5WB	36x12	3.00 SF	583 FPM	0.020	1	1750 CFM	0.16	45.0	75.0	56.94	160	120	2.9	0.5	1-2

BUILT IN 5% INPUT IMPEDANCE 2. OUTPUT CABLE (WHEN CABLE IS GREATER THAN 50 FT)

Ez = AIR DISTRIBUTION CONFIGURATION, Voz = ZONE OUTDOOR AIRFLOW

			VARIA	BLE F	REQU	ENCY	'DRIV	E (VFD) SCHED	ULE		
DWG LABEL	SERVES	DESIGN MAKE :ABB MODEL NO.:	MOTOR HP	AMP.	MOTOR (KW)	VOLT.	FREQ. (Hz)	UL ENCLOSURE	NO. OF PULSES	CONSTRUCTION TYPE	NOTES
VFD-P-4	P-4	ACH550-PDR-012A-4	5	24.2	5.6	208	60	UL Type 12 - NEMA 12	6	PDR = Drive, Disconnect	1-2
VFD-P-5	P-5	ACH550-PDR-012A-4	5	24.2	5.6	208	60	UL Type 12 - NEMA 12	6	PDR = Drive, Disconnect	1-2
VFD-P-7	P-7	ACH550-PDR-012A-4	5	24.2	5.6	208	60	UL Type 12 - NEMA 12	6	PDR = Drive, Disconnect	1-2
VFD-P-8	P-8	ACH550-PDR-012A-4	5	24.2	5.6	208	60	UL Type 12 - NEMA 12	6	PDR = Drive, Disconnect	1-2
VFD-P-9	P-9	ACH550-PDR-012A-4	5	24.2	5.6	208	60	UL Type 12 - NEMA 12	6	PDR = Drive, Disconnect	1-2

			ZONE ID				MINIMUM	VENTIL	ATION RATE	ES				DESIG	Νέ
EQUIPMENT NUMBER	ROOM NUMBER	ROOM NAME	OCCUPANCY CLASSIFICATION	Az - AREA (SF)	Pz - ZONE OCCU. #/1000 FT	ZONE OCCU.	Rp (CFM/ Person)	RpP	Ra (CFM/SF)	RaA	Vbz (CFM)	EZ	Voz (CFM)	Vpz (CFM)	Zp
	F153	VOCAL	Music/theater/dance	780	70	55	10	550	0.06	47	597	0.8	745	1280	0.58
	F155	OFFICE	OFFICE SPACE	251	5	2	5	10	0.06	15	25	0.8	30	200	0.15
DTU	F155a	OFFICE	OFFICE SPACE	85	5	1	5	5	0.06	5	10	0.8	15	130	0.12
RTU-1	F155b	OFFICE	OFFICE SPACE	75	5	1	5	5	0.06	5	10	0.8	10	70	0.14
	F157	BAND REH	Music/theater/dance	1144	70	81	10	810	0.06	69	879	0.8	1100	1750	0.63
	F159a	STORAGE	piable storage rooms for dry mat	451	2	1	5	5	0.06	27	32	0.8	40	70	0.57

Rp = PEOPLE OUTDOOR AIR RATE, Ra = AREA OUTDOOR AIR RATE, Vbz = BREATHING ZONE OUTDOOR AIRFLOW, Ez = AIR DISTRIBUTION CONFIGURATION, Voz = ZONE OUTDOOR AIRFLOW Vpz = ZONE PRIMARY AIRFLOW, Zpz = PRIMARY OUTDOOR AIR FRACTION, Vps = SYSTEM PRIMARY AIRFLOW, Vot = OUTDOOR AIR INTAKE FLOW, Vou = UNCORRECTED OUTDOOR AIR INTAKE, D = OCCUPANT DIVERSITY, Ev = SYSTEM VENTILATION EFFICIENCY

Vps	3500	(UNCORRECTED OA) Vou	1067
(CORRECTED OA) Vot	1580	D	0.65
OA%	45	Ev	0.68
ADDITIONAL OA%	48		

	Т		ZONE ID				MINIMUN	I VENTIL	ATION RATE	ES .			
EQUIPMENT NUMBER	ROOM NUMBER	ROOM NAME	OCCUPANCY CLASSIFICATION	Az - AREA (SF)	Pz - ZONE OCCU. #/1000 FT	ZONE OCCU.	Rp (CFM/ Person)	RpP	Ra (CFM/SF)	RaA	Vbz (CFM)	EZ	Voz (CFM)
CHUV	A108	ART	ART CLASSROOM	1001	20	21	10	210	0.18	180	390	0.8	490
CHUV	A110	ART	ART CLASSROOM	1169	20	24	10	240	0.18	210	450	0.8	570
UV	B115	CLASS	CLASSROOMS (AGE 9 PLUS)	743	35	27	10	270	0.12	89	359	0.9	400
UV	B117	CLASS	CLASSROOMS (AGE 9 PLUS)	743	35	27	10	270	0.12	89	359	0.9	400
CHUV	B119	GEN SCI	Science laboratories	1008	25	26	10	260	0.18	181	441	0.8	560
CHUV	B119B	PREP	Occupiable storage rooms for liquids or gels	95	2	1	5	5	0.12	11	16	1.8	10
CHUV	B121	GEN SCI	Science laboratories	1010	25	26	10	260	0.18	182	442	0.8	560
	B121A	STORAGE	Occupiable storage rooms for liquids or gels	127	2	1	5	5	0.12	15	20	1.8	20
	B121C	PREP	Occupiable storage rooms for liquids or gels	95	2	1	5	5	0.12	11	16	1.8	10
CHUV	B124	GEN SCI	Science laboratories	1023	25	26	10	260	0.18	184	444	0.8	560
JV	C130	CLASS	CLASSROOMS (AGE 9 PLUS)	743	35	27	10	270	0.12	89	359	0.9	400
JV	D132	CLASS	CLASSROOMS (AGE 9 PLUS)	954	35	34	10	340	0.12	114	454	0.9	510
JV	D134	CLASS	CLASSROOMS (AGE 9 PLUS)	815	35	29	10	290	0.12	98	388	0.9	440
UV	D135	CLASS	CLASSROOMS (AGE 9 PLUS)	770	35	27	10	270	0.12	92	362	0.9	410
UV	D136	CLASS	CLASSROOMS (AGE 9 PLUS)	792	35	28	10	280	0.12	95	375	0.9	420
UV	D137	CLASS	CLASSROOMS (AGE 9 PLUS)	768	35	27	10	270	0.12	92	362	0.9	410
JV	D138	CLASS	CLASSROOMS (AGE 9 PLUS)	798	35	28	10	280	0.12	96	376	0.9	420
JV	D139	CLASS	CLASSROOMS (AGE 9 PLUS)	795	35	28	10	280	0.12	95	375	0.9	420
UV	D140	CLASS	CLASSROOMS (AGE 9 PLUS)	823	35	29	10	290	0.12	99	389	0.9	440

S.E.D. Control No. 13-02-00-01-0-004-023

Rev. No.: Date: Description:



CLEAR SOLUTIONS



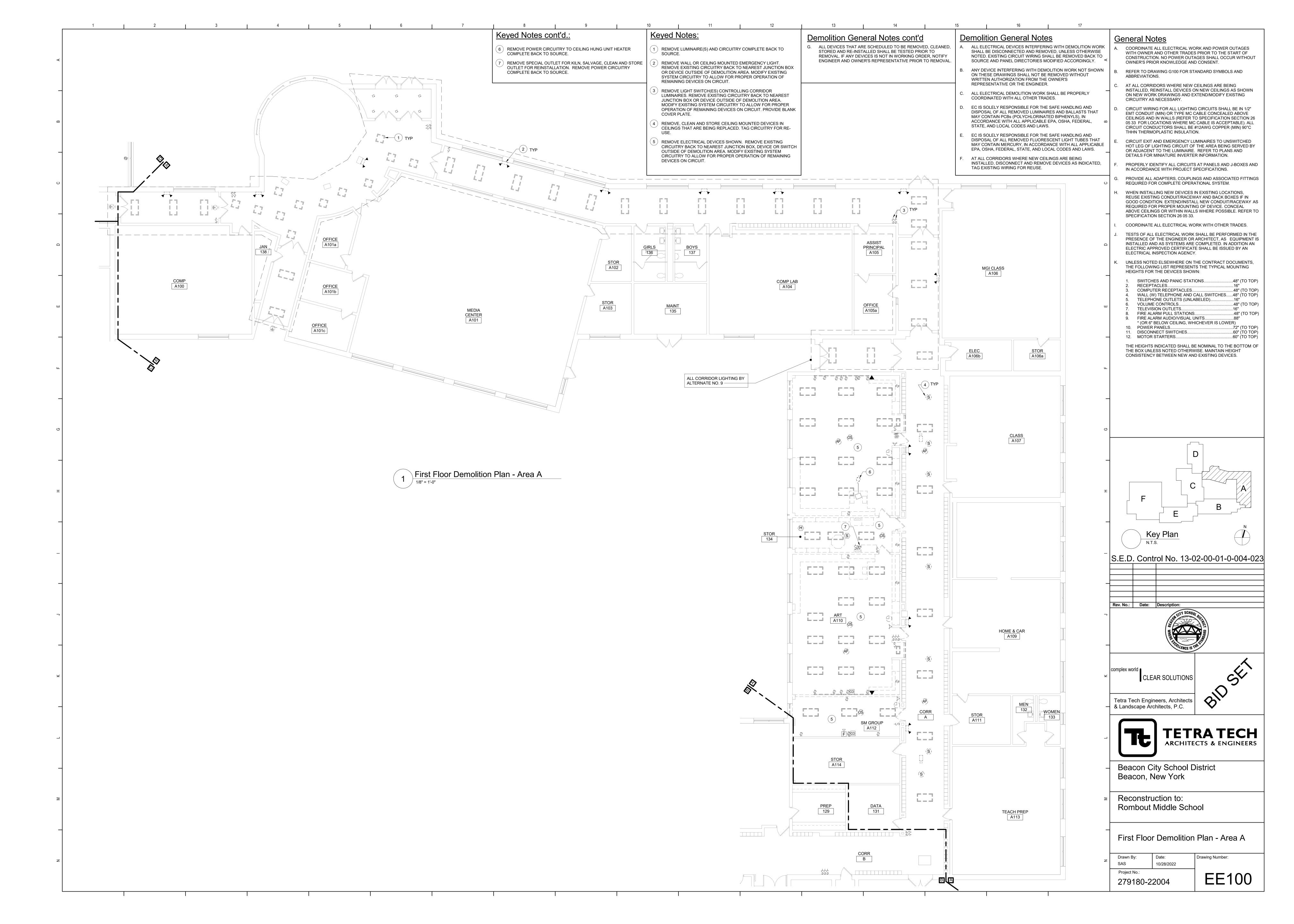


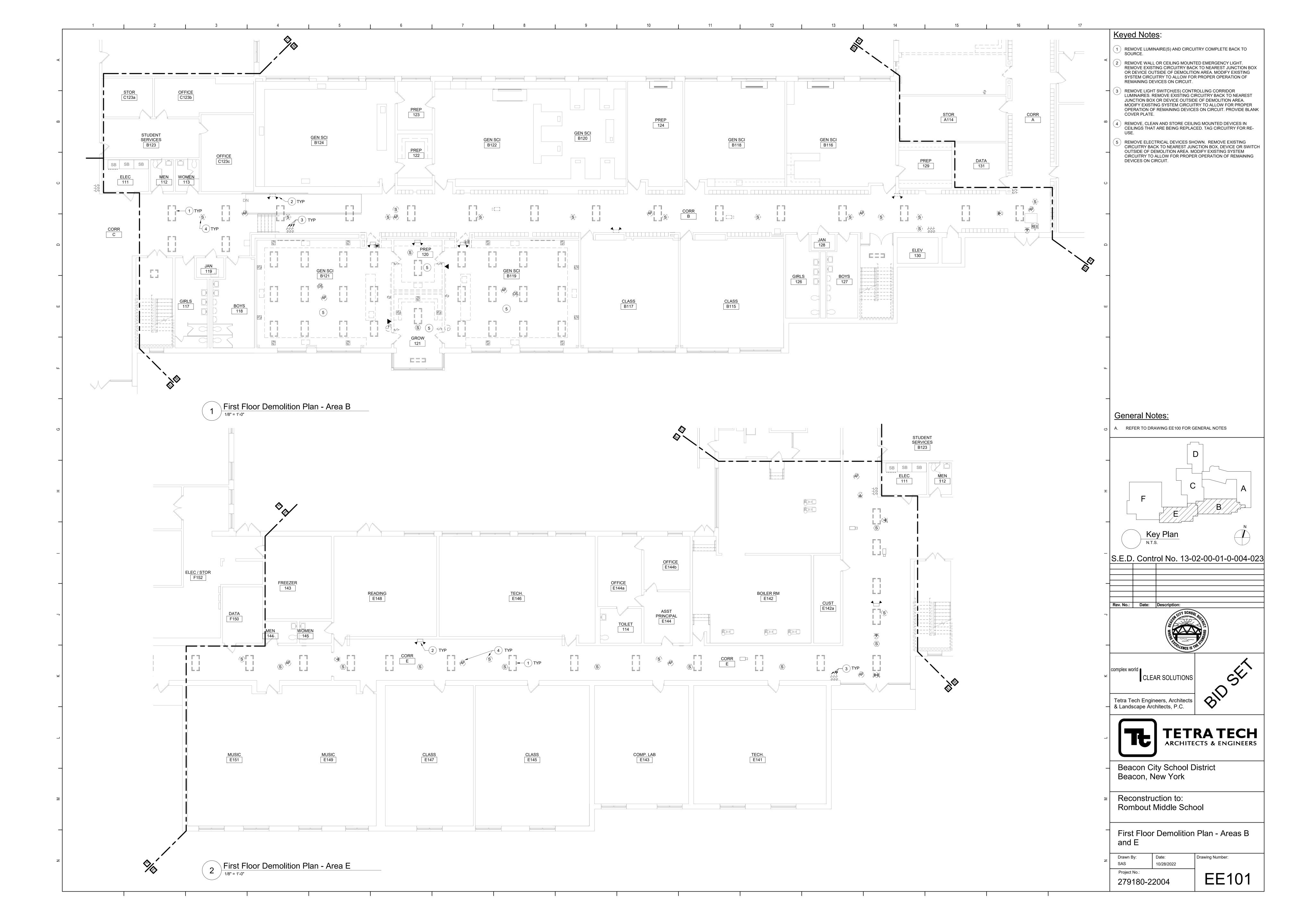
Beacon City School District Beacon, New York

Reconstruction to: Rombout Middle School

Schedules and Controls

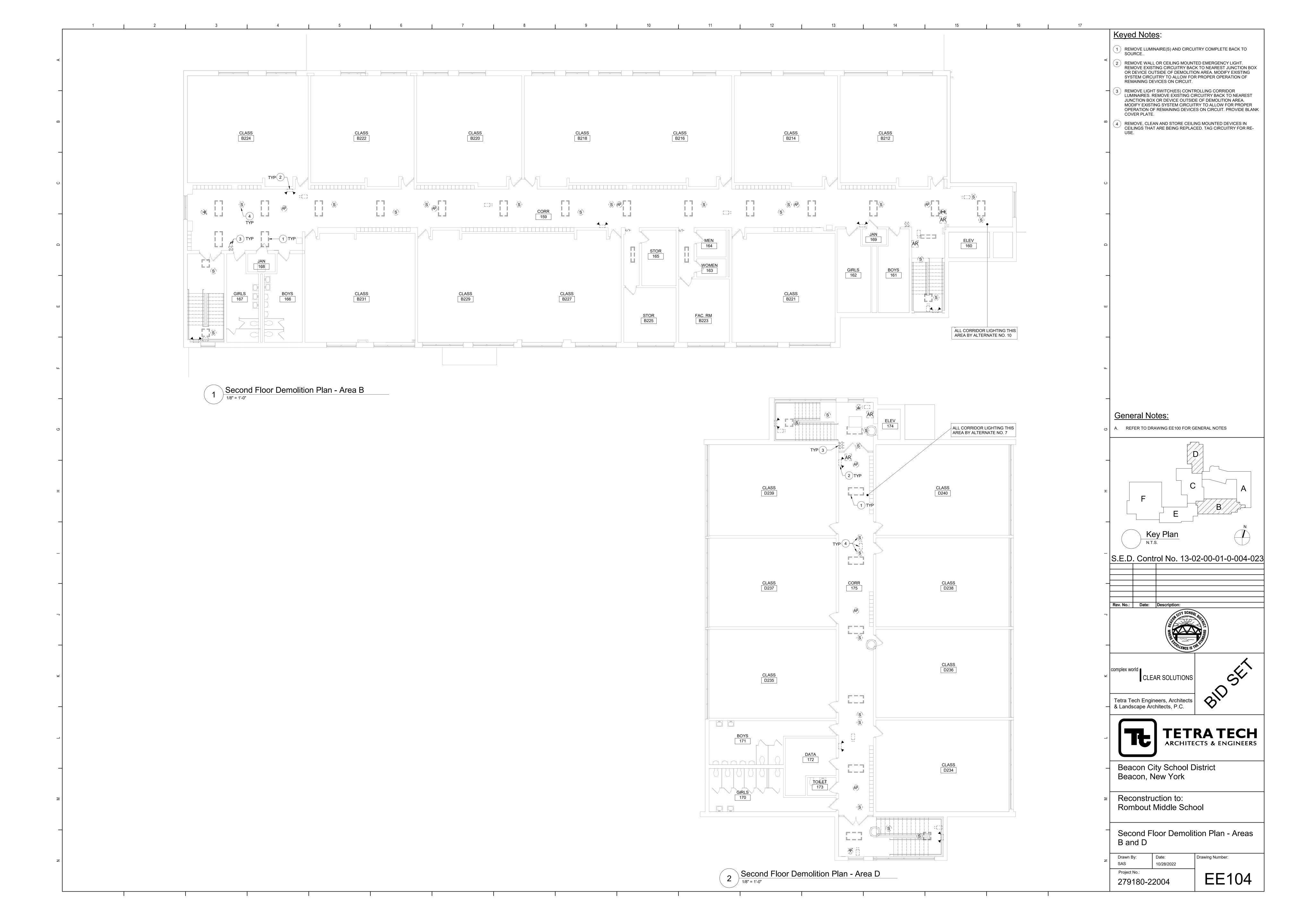
Drawing Number: JPF1/pgm 10/28/2022 Project No.: EM600 279180-22004

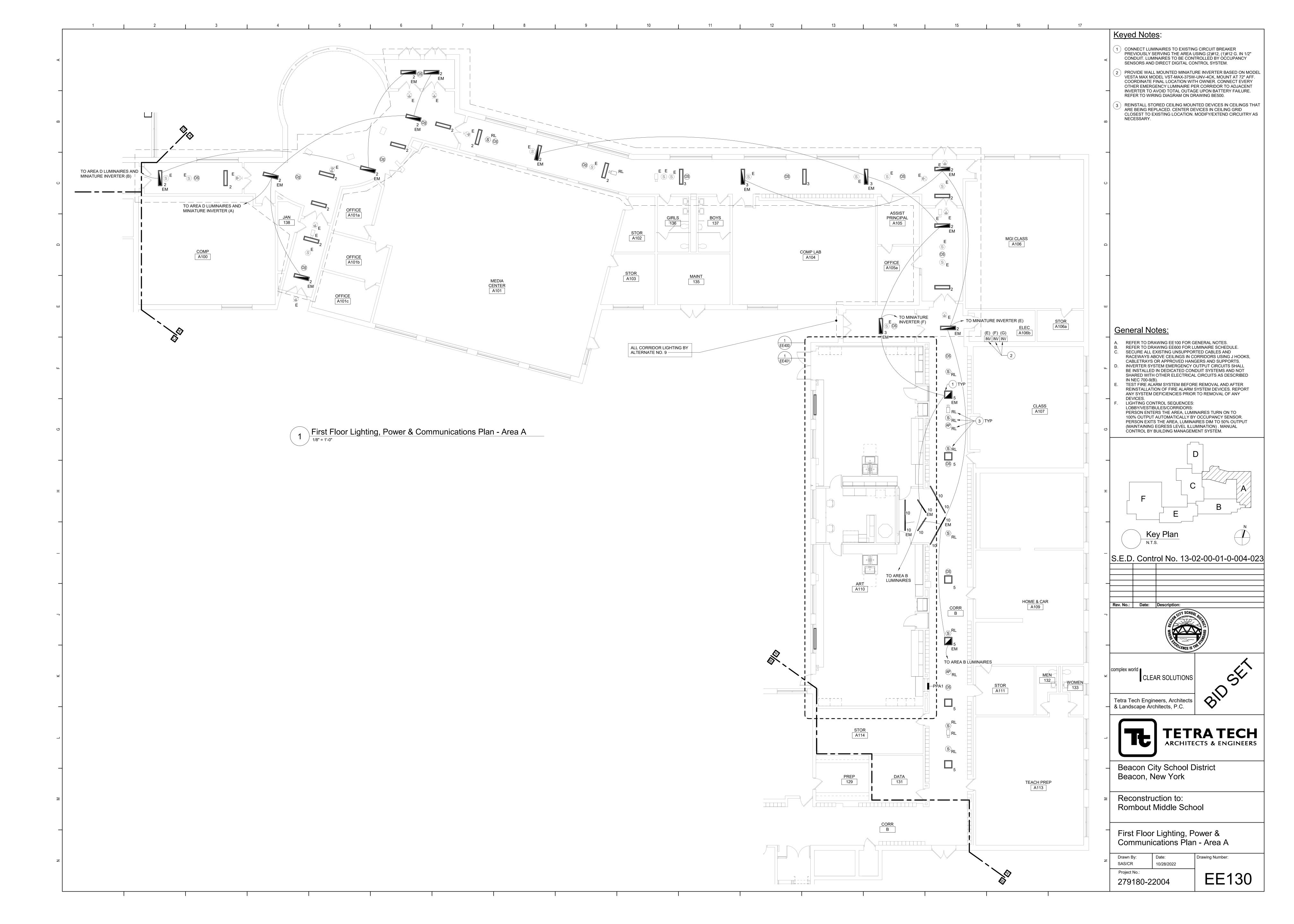


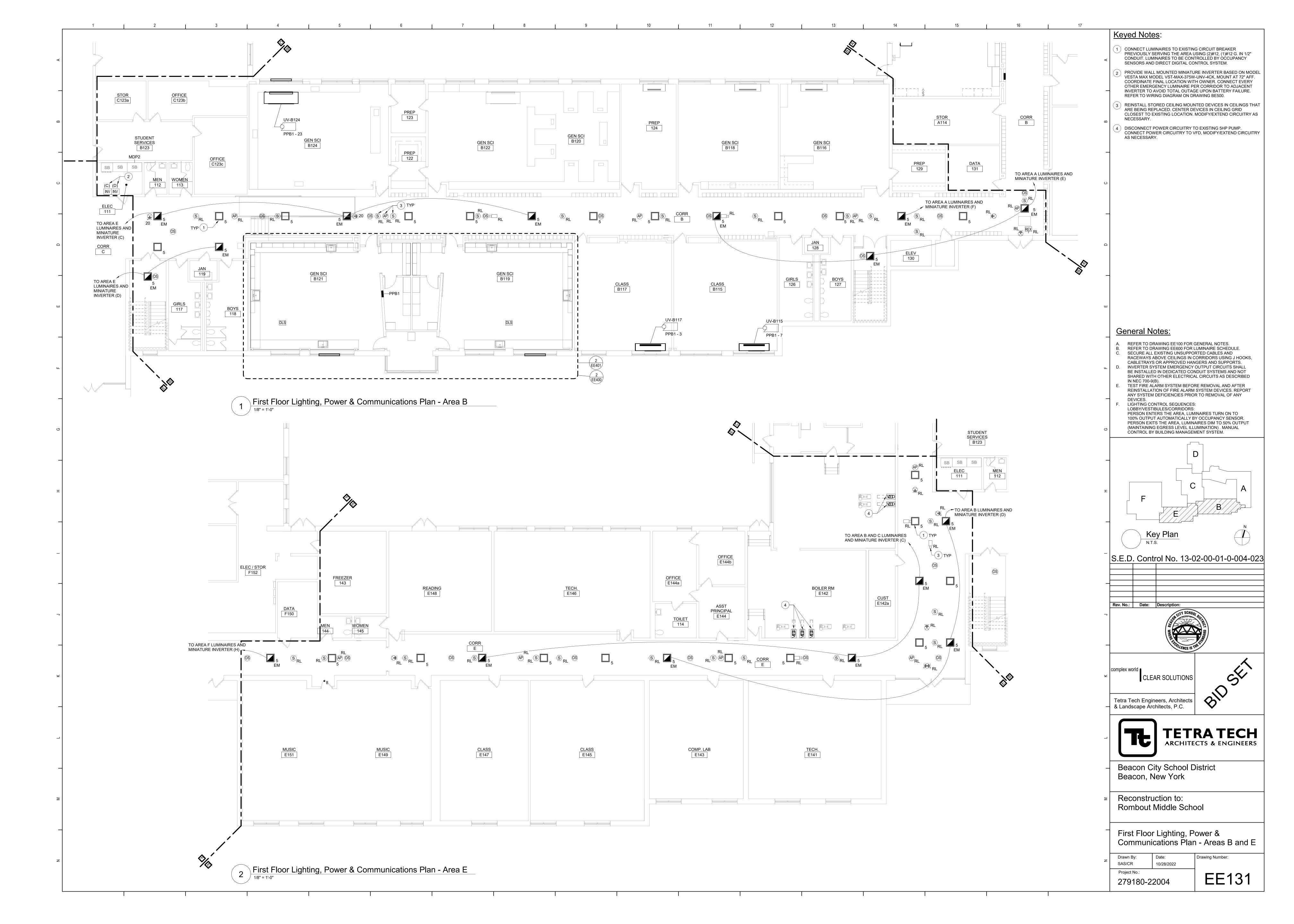


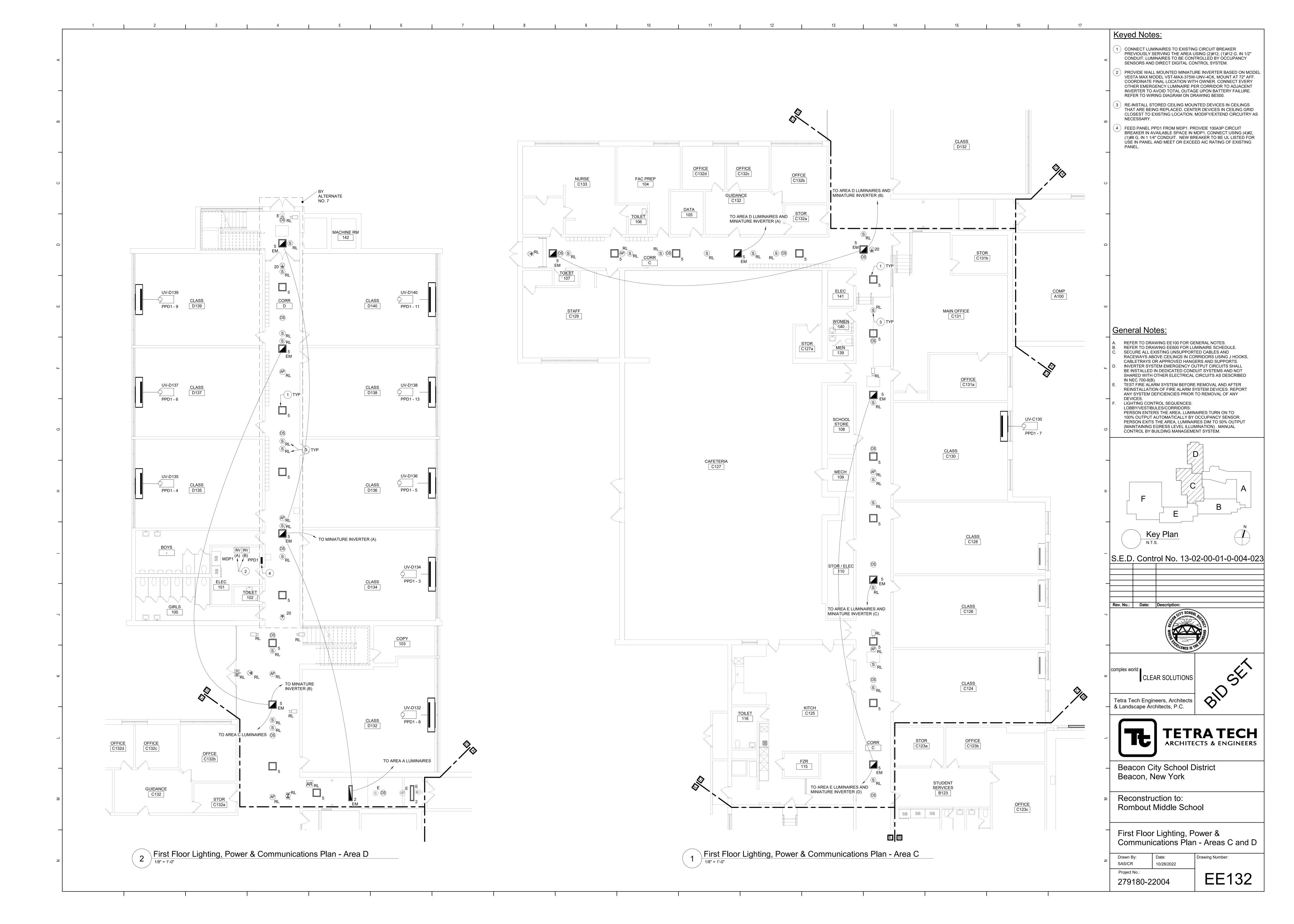


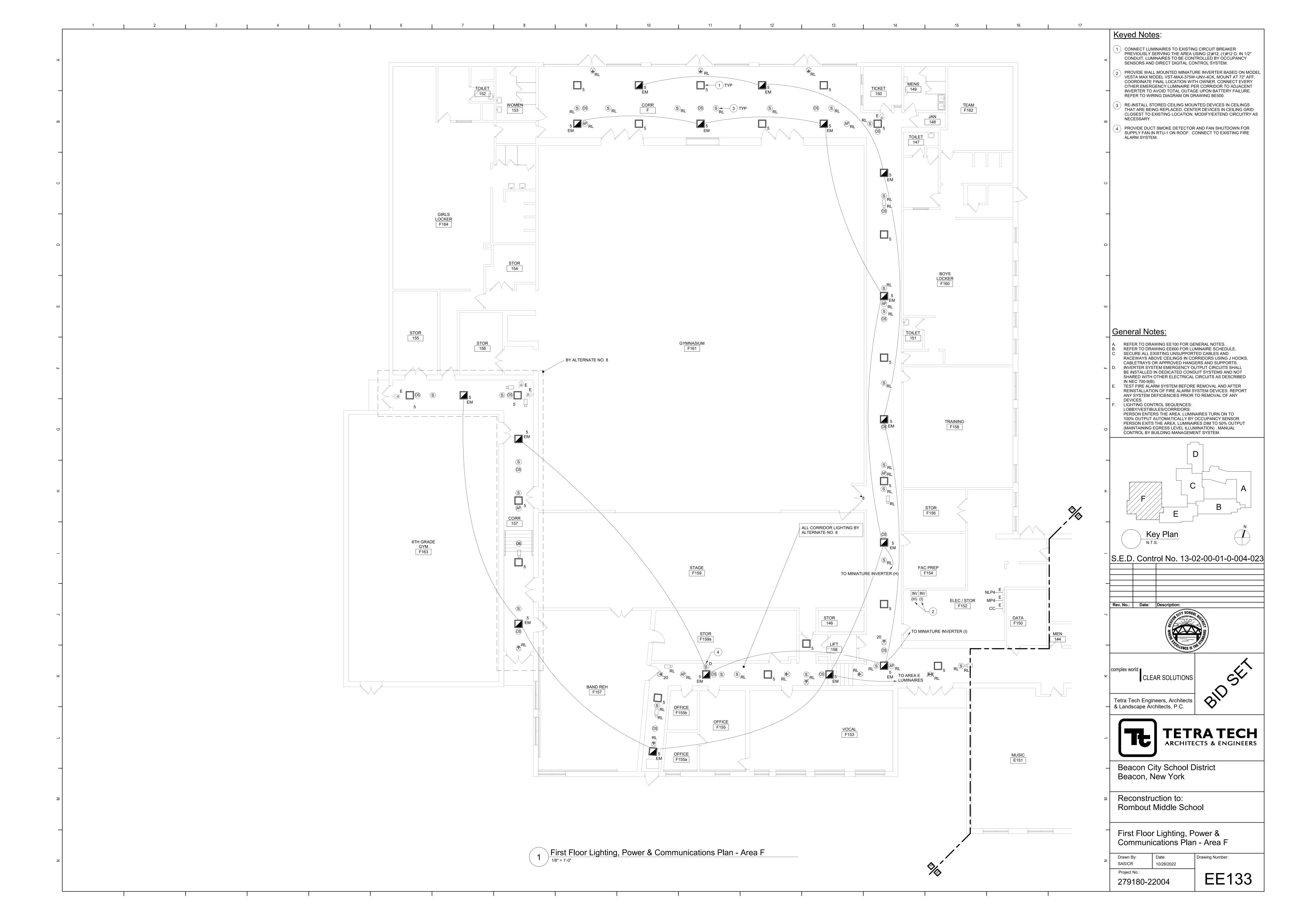


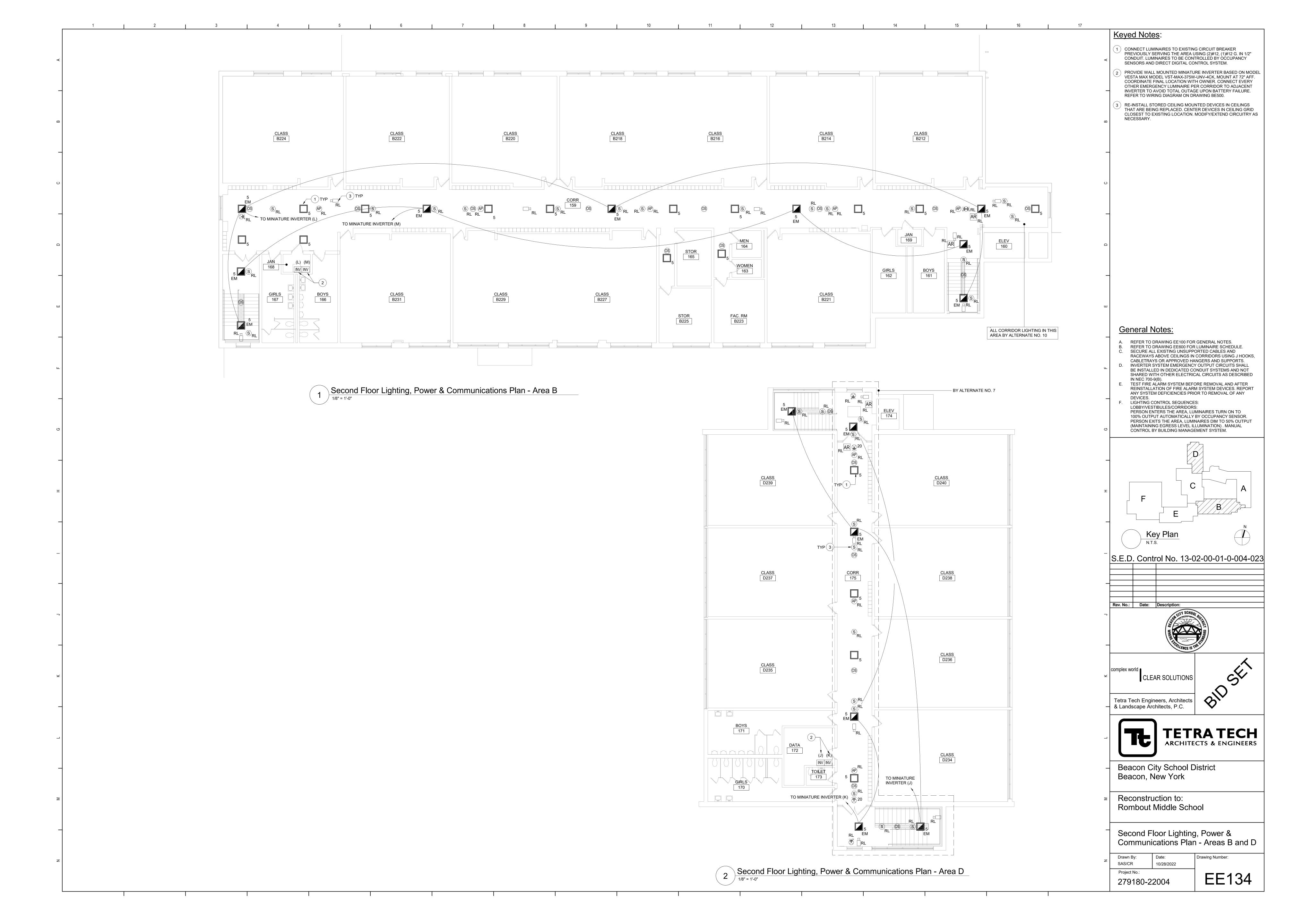


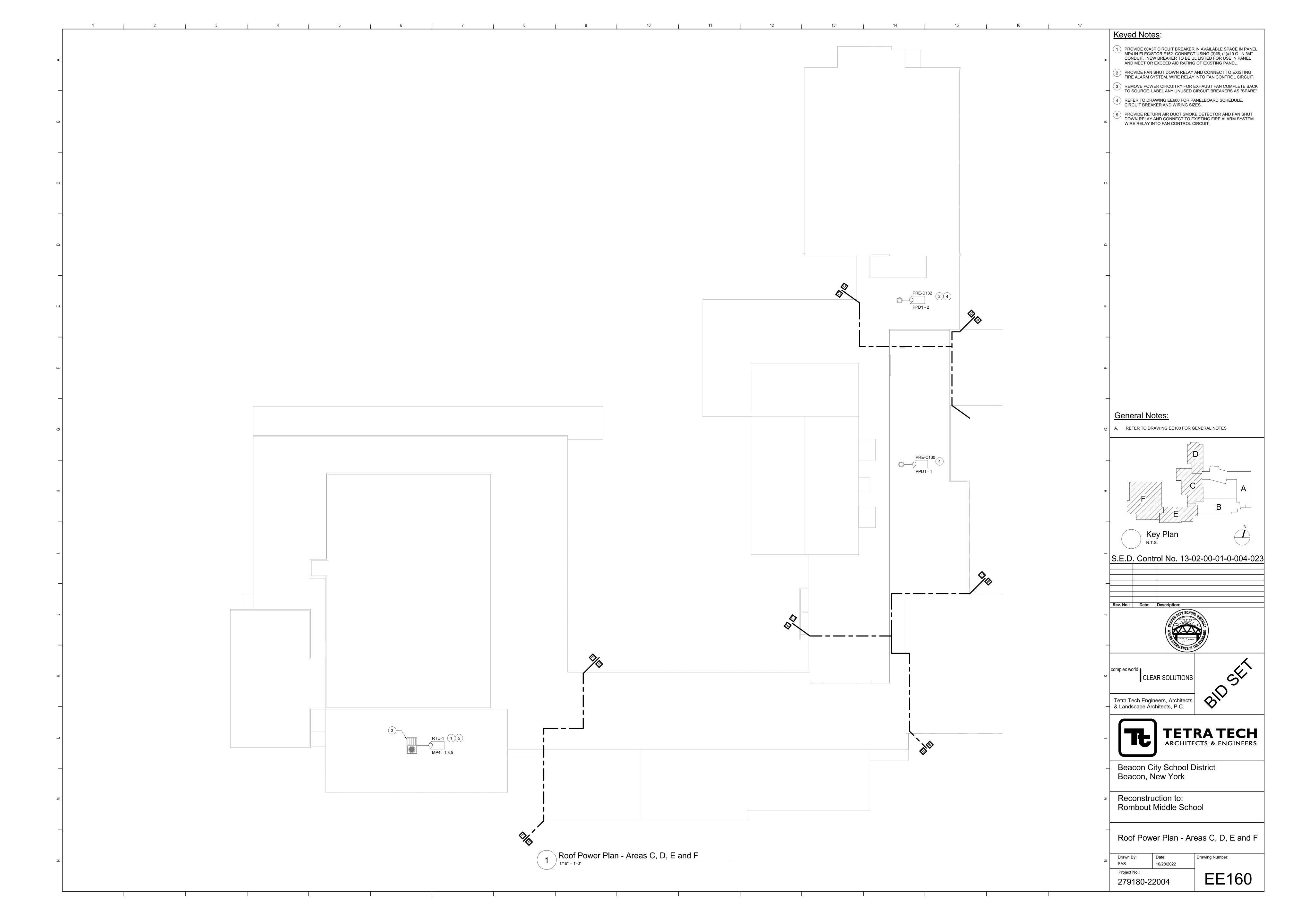


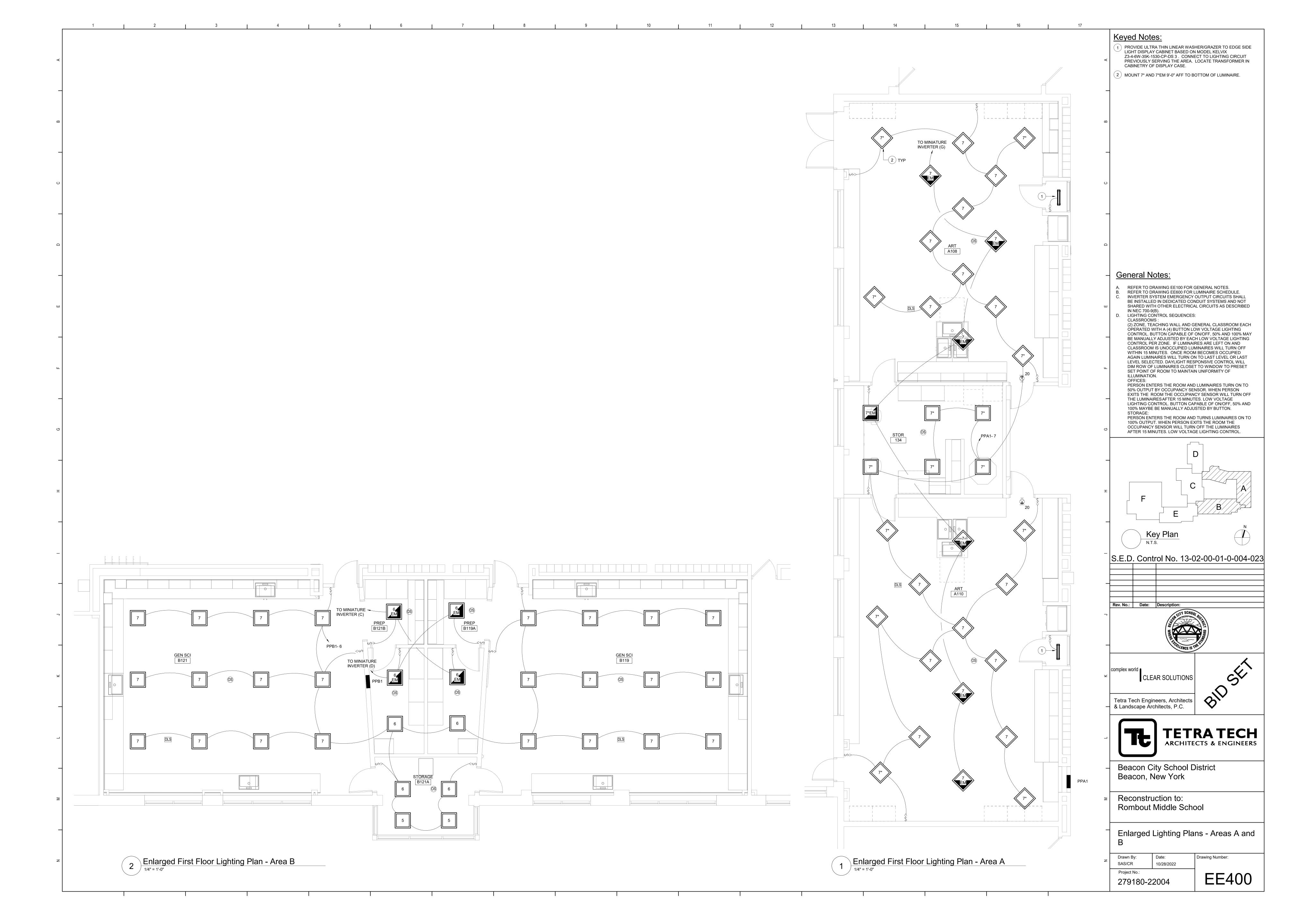


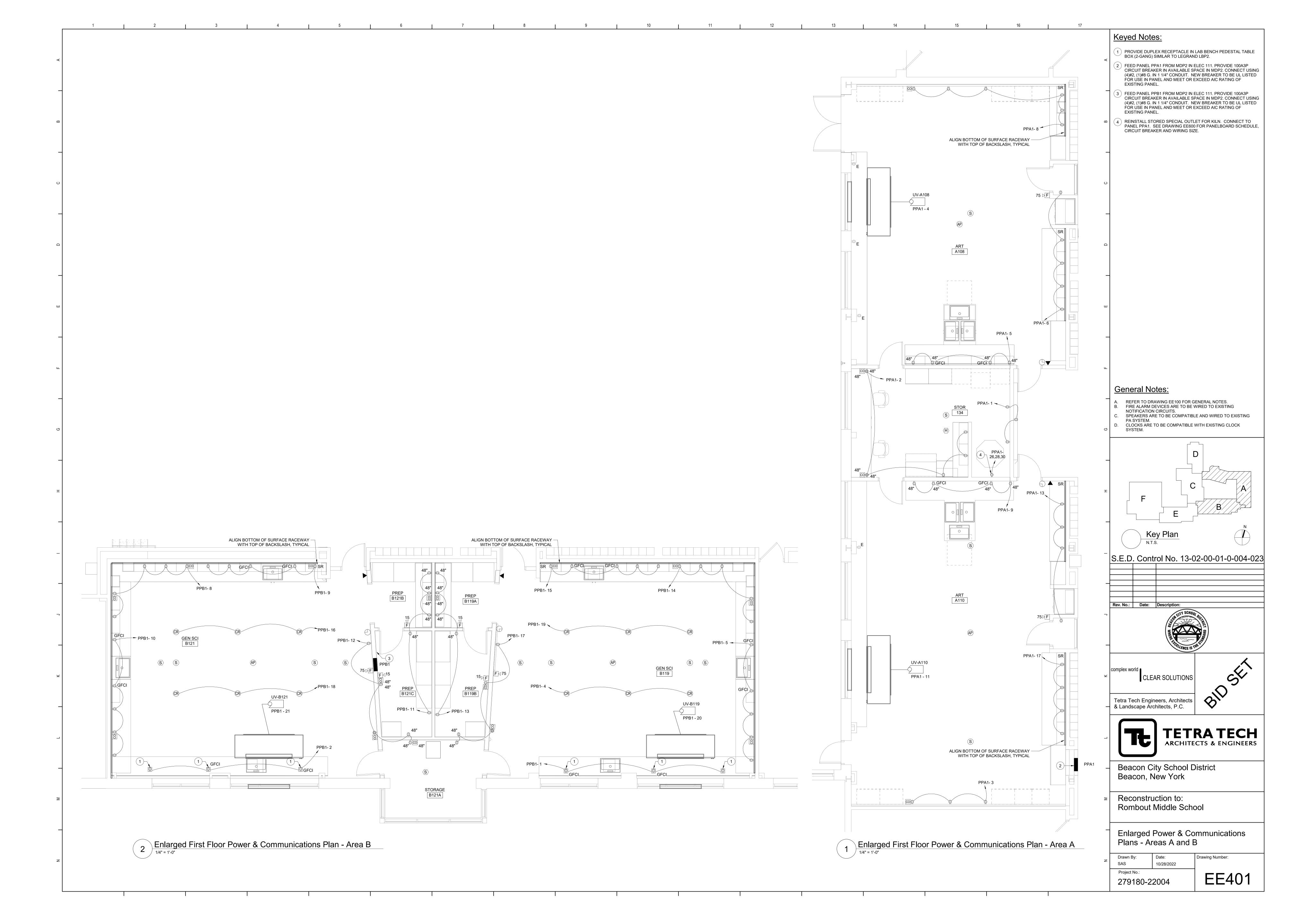


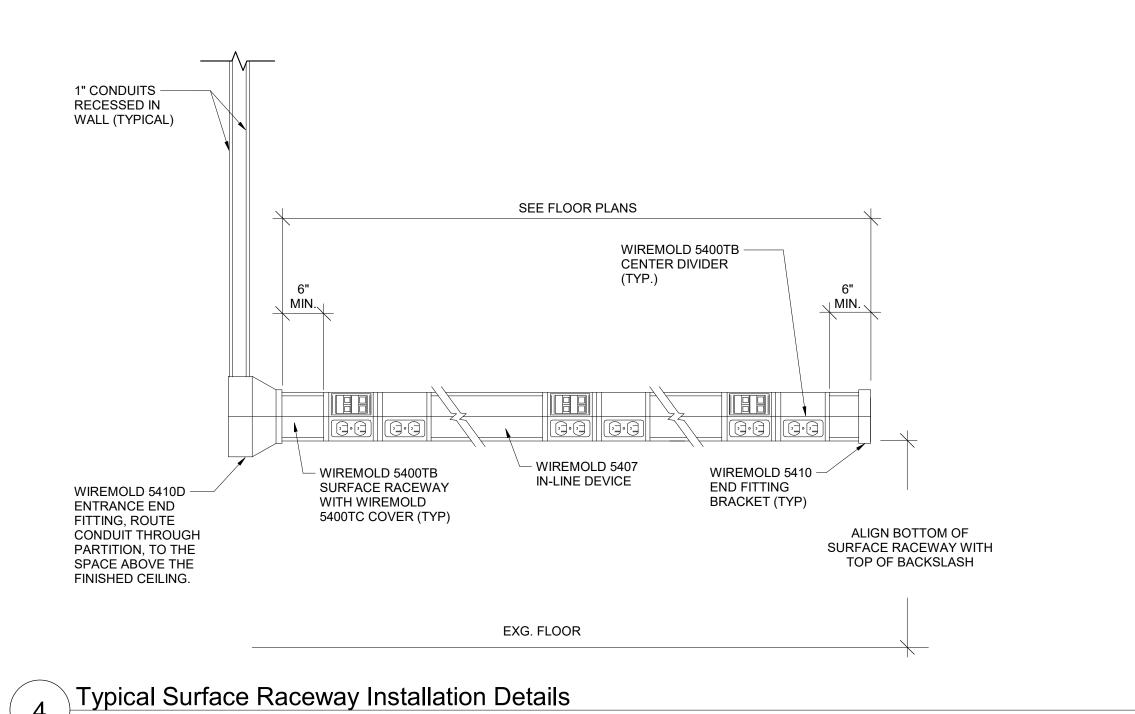


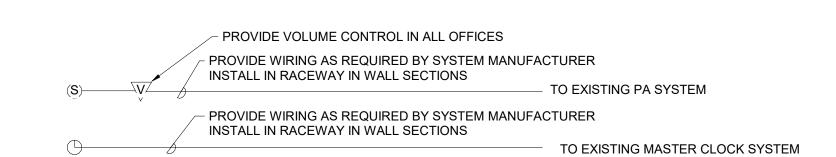




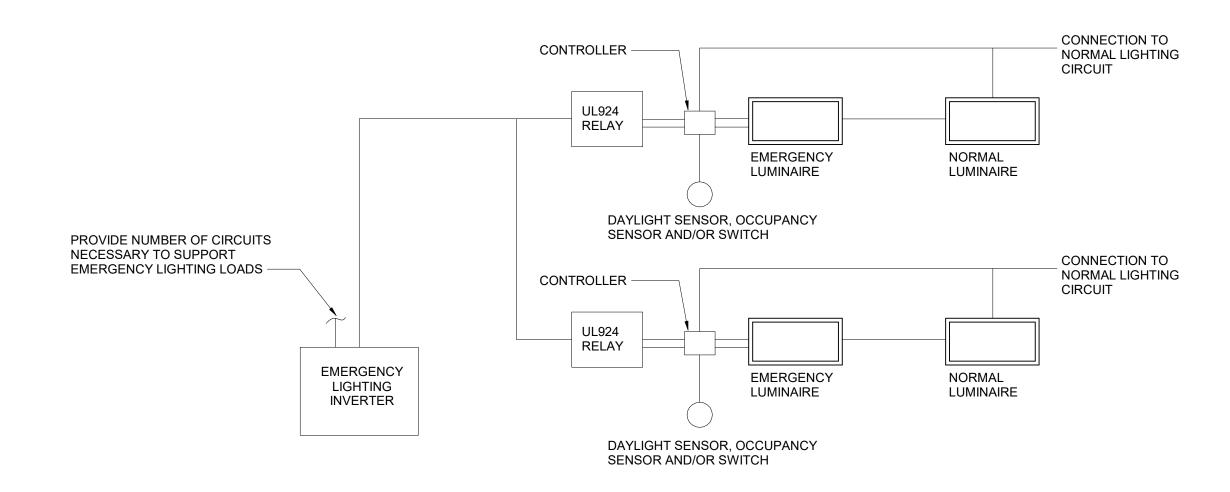




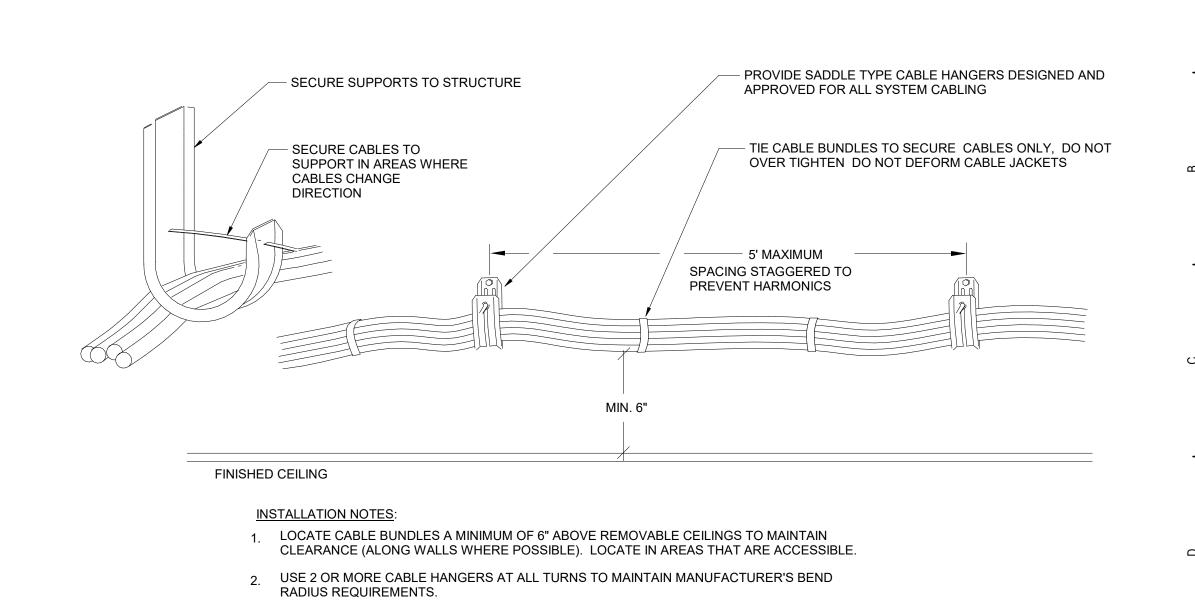




6 Clock and Speaker System Wiring Diagram

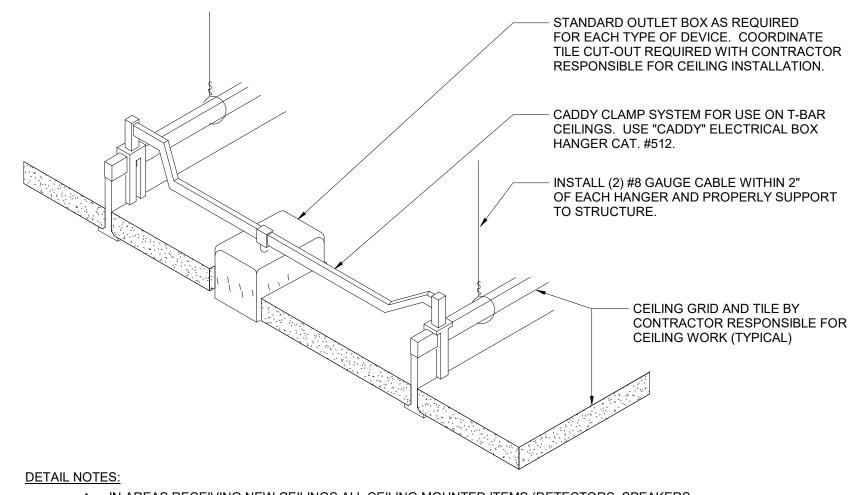


6 Emergency Miniature Inverter Wiring Diagram



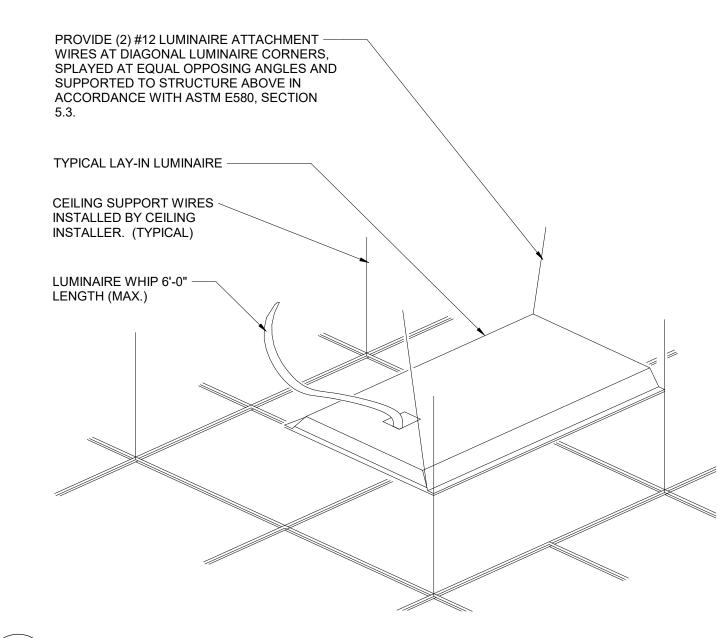
3. THIS SUPPORT SYSTEM TO BE USED WHEREVER CABLE TRAY IS NOT INDICATED ON PLANS.

1 Typical Installation with Cable Hangars

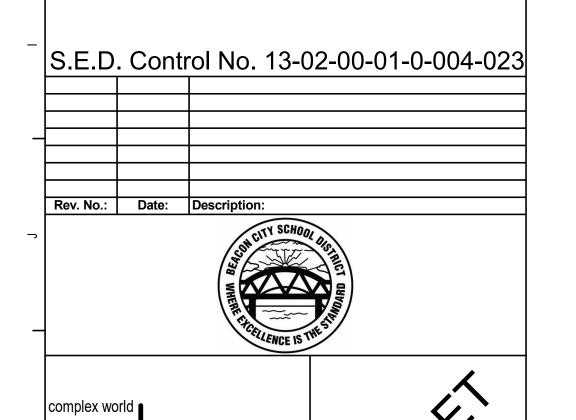


A. IN AREAS RECEIVING NEW CEILINGS ALL CEILING MOUNTED ITEMS (DETECTORS, SPEAKERS, ETC) ARE TO BE CENTERED WITHIN THE PATTERN OF THE CEILING PANEL. A 2'X4' PANEL SCORED TO A 2'X2' PATTERN SHALL HAVE ITEMS CENTERED IN THE 2'x2' PORTION.
 B. PROVIDE ADDITIONAL SUPPORT FOR EXIT SIGNS, WHERE REQUIRED.





3 Typical Troffer Mounting Detail (Seismic Zones A,B,C)





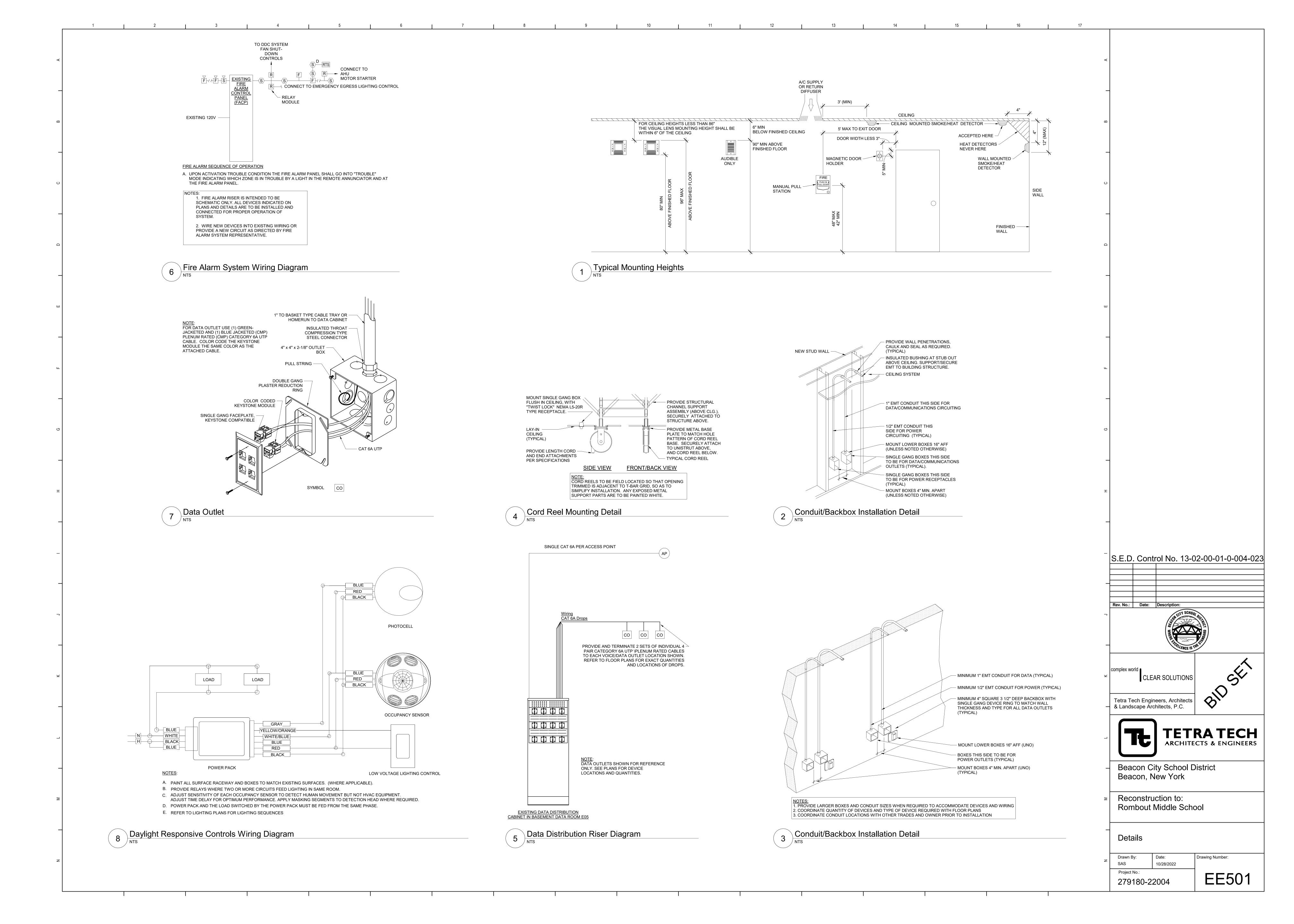


Beacon City School District Beacon, New York

Reconstruction to: Rombout Middle School

Details

Drawn By:	Date:	Drawing Number:
SAS	10/28/2022	
Project No.:		
279180-2	2004	EE500



TVDE	0)/44001	DECORIDATION		LAMPS		MANUFA	ACTURERS (OR EQUAL)
YPE	SYMBOL	DESCRIPTION	WATTAGE	LUMENS	TYPE	NAME	MODEL OR SERIES
1 **		1' x 4' TROFFER (RECESSED IN GRID)	12.2	1482	LED	SIGNIFY (DAY-BRITE)	1FPZ15L835-4-DS-UNV-DIM
1 _{**} EM		SAME AS TYPE 1 - CONNECTED TO EMERGENCY MINIATURE INVERTER	12.2	1482	LED	SIGNIFY (DAY-BRITE)	1FPZ15L835-4-DS-UNV-DIM
2		1' x 4' TROFFER (RECESSED IN GRID)	24.6	2972	LED	SIGNIFY (DAY-BRITE)	1FPZ30L835-4-DS-UNV-DIM
2 EM		SAME AS TYPE 2 - CONNECTED TO EMERGENCY MINIATURE INVERTER	24.6	2972	LED	SIGNIFY (DAY-BRITE)	1FPZ30L835-4-DS-UNV-DIM
3		1' x 4' TROFFER (RECESSED IN GRID)	31.3	3775	LED	SIGNIFY (DAY-BRITE)	1FPZ38L835-4-DS-UNV-DIM
3 EM		SAME AS TYPE 3 - CONNECTED TO EMERGENCY MINIATURE INVERTER	31.3	3775	LED	SIGNIFY (DAY-BRITE)	1FPZ38L835-4-DS-UNV-DIM
4 **		2' x 2' TROFFER (RECESSED IN GRID)	15.7	1918	LED	SIGNIFY (DAY-BRITE)	2FPZ20L835-2-DS-UNV-DIM
4 ** EM		SAME AS TYPE 4 - CONNECTED TO EMERGENCY MINIATURE INVERTER	15.7	1918	LED	SIGNIFY (DAY-BRITE)	2FPZ20L835-2-DS-UNV-DIM
5		2' x 2' TROFFER (RECESSED IN GRID)	23.4	2911	LED	SIGNIFY (DAY-BRITE)	2FPZ30L835-2-DS-UNV-DIM
5 EM		SAME AS TYPE 5 - CONNECTED TO EMERGENCY MINIATURE INVERTER	23.4	2911	LED	SIGNIFY (DAY-BRITE)	2FPZ30L835-2-DS-UNV-DIM
6		2' x 2' TROFFER (RECESSED IN GRID)	29.8	3856	LED	SIGNIFY (DAY-BRITE)	2FPZ38L835-2-DS-UNV-DIM
6 EM		SAME AS TYPE 6 - CONNECTED TO EMERGENCY MINIATURE INVERTER	29.8	3856	LED	SIGNIFY (DAY-BRITE)	2FPZ38L835-2-DS-UNV-DIM
7*		2' x 2' TROFFER (RECESSED IN GRID)	35.7	4403	LED	SIGNIFY (DAY-BRITE)	2FPZ45L835-2-DS-UNV-DIM
7* EM		SAME AS TYPE 7 - CONNECTED TO EMERGENCY MINIATURE INVERTER	35.7	4403	LED	SIGNIFY (DAY-BRITE)	2FPZ45L835-2-DS-UNV-DIM
8		4" ROUND DOWNLIGHT	8.8	868	LED	SIGNIFY (LEDALITE)	L4R10935VB / L4RDW
8 _{**} EM		SAME AS TYPE 8 - CONNECTED TO EMERGENCY MINIATURE INVERTER	8.8	868	LED	SIGNIFY (LEDALITE)	L4R10935VB / L4RDW
9 **		4" SQUARE DOWNLIGHT	8.8	868	LED	SIGNIFY (LEDALITE)	L4R10935VB / L4RDW
9 _{**} EM		SAME AS TYPE 9 - CONNECTED TO EMERGENCY MINIATURE INVERTER	8.8	868	LED	SIGNIFY (LEDALITE)	L4R10935VB / L4RDW
10		2" RECESSED LINEAR. LENGTH VARIES, SEE PLANS FOR SPECIFIC LENGTHS.	14.5	1345	LED	FINELITE	HP-2-R-D-XFT-S-835
10 EM		SAME AS TYPE 10 - CONNECTED TO EMERGENCY MINIATURE INVERTER	14.5	1345	LED	FINELITE	HP-2-R-D-XFT-S-835
11**		15/16" T-BAR LED	39	2854	LED	JLC TECH	TBSL-MW-5-24-B2-X-W
11 _{**}		SAME AS TYPE 11 - CONNECTED TO EMERGENCY MINIATURE INVERTER	39	2854	LED	JLC TECH	TBSL-MW-5-24-B2-X-W
12**		2" RECESSED PERIMETER	27.6	2999	LED	PINNACLE ARCHITECTURAL LIGHTING	EV2DPM-A-835HO-4
12 _{**} EM		SAME AS TYPE 12 - CONNECTED TO EMERGENCY MINIATURE INVERTER	27.6	2999	LED	PINNACLE ARCHITECTURAL LIGHTING	EV2DPM-A-835HO-4
13**		WALL MOUNT LINEAR	33.1	3361	LED	SIGNIFY (LEDALITE)	7408LBEQN047DEW
13 _{**} EM		SAME AS TYPE 13 - CONNECTED TO EMERGENCY MINIATURE INVERTER	33.1	3361	LED	SIGNIFY (LEDALITE)	7408LBEQN047DEW
14 _{**} EM		4' SURFACE MOUNTED LINEAR - CONNECTED TO EMERGENCY MINIATURE INVERTER	18.8	1780	LED	PINNACLE ARCHITECTURAL LIGHTING	EX3-WET-N-835-4-S-U-OL2-1-0-\
20		EXIT SIGN (SINGLE FACE) WALL AND CEILING MOUNT. SEE PLANS FOR DIRECTIONAL INDICATORS	2.5		LED	SIGNIFY (CHLORIDE)	ER46L-2-W-R

				Loc	cation:	ELEC 101	Surfa	ce MOUN	ITED	_1	10,000	SY	M. A.I.C		ENCLOSURE TYPE Type 1						
						AMP MAIN (L	UGS) OR 100 A	AMP N	MAIN BRE	EAKER WI	TH 10	00 A	AMP	TRIP							
				208Y/	120V	VOLTS	3 PHASE	4	_WIRE	6	60 HI	ERTZ	100 A	AMP BUS	SE	LABEL _					
KT O.	POLES	TRIP AMPS	WIRE AWG	# OF WIRES	GRN. AWG	CONDUIT	LOAD SERVED	,	A	E	3		С	LOAD SERVED	CONDUIT	GRN. AWG	# OF WIRES	WIRE AWG	TRIP AMPS	POLES	CK1
1	1	20 A					PRE-C130	0 VA	0 VA					PRE-D132					20 A	1	2
	1	15 A					UV-D134			860 VA	860 VA			UV-D135					15 A	1	4
,	1	15 A					UV-D136					860 VA	860 VA	UV-D137					15 A	1	6
	1	15 A					UV-C130	860 VA	860 VA					UV-D132					15 A	1	8
	1	15 A					UV-D139			860 VA	0 VA			SPARE					20 A	1	10
1	1	15 A					UV-D140					860 VA	0 VA	SPARE					20 A	1	12
3	1	15 A					UV-D138	860 VA	0 VA					SPARE					20 A	1	14
5	1	20 A					SPARE			0 VA	0 VA			SPARE					20 A	1	16
7	1	20 A												SPARE					20 A	1	18
							ED LOAD PER PHASE														
						P BREAKER			<u> </u>		3	(С								
17		20 A FCI BRE			INT TRI	L CONNECTE P BREAKER	SPARE ED LOAD PER PHASE	2580 J		2580 I) VA 3		0 VA 0 VA C	SPARE	# -PROVIDE BREAKER AS REQUIF PANELBOARD MANUFACTURER					1	

				Loc	cation: _	PREP B121C	Recess	ed MOUN	NTED	_1	10,000	SY	M. A.I.C		ENCLOSURE TYPE Type 1						
						AMP MAIN (L	LUGS) OR 100 A	AMP I	MAIN BRE	AKER WI	TH 10	00 A	AMP	TRIP							
				208Y/	120V \	VOLTS	3 PHASE	4	WIRE	_6	80 HE	ERTZ	100 A	AMP BUS	SE I	Label _					
KT	POLES	TRIP AMPS	WIRE AWG	# OF WIRES	GRN. AWG	CONDUIT	LOAD SERVED		A	E	3	(С	LOAD SERVED	CONDUIT	GRN. AWG	# OF WIRES	WIRE AWG	TRIP AMPS	POLES	CK1
1	1	20 A					RCPT: B119	540 VA	540 VA					RCPT: B121					20 A	1	2
	1	15 A					UV-B117			860 VA	1080 VA			RCPT: CORD REEL					20 A	1	4
	1	20 A					RCPT: B119					900 VA	1023 VA	LTG: B119 & B121					20 A	1	6
	1	15 A					UV-B115	860 VA	900 VA					RCPT: B121					20 A	1	8
)	1	20 A					RCPT: B121			900 VA	900 VA			RCPT: B121					20 A	1	10
1	1	20 A					RCPT: B121B, B121C					900 VA	900 VA	RCPT: B121					20 A	1	12
3	1	20 A					RCPT: B119A, B119B	900 VA	900 VA					RCPT: B119					20 A	1	14
5	1	20 A					RCPT: B119			900 VA	1080 VA			RCPT: CORD REEL					20 A	1	16
7	1	20 A					RCPT: B119					900 VA	1080 VA	RCPT: CORD REEL					20 A	1	18
9	1	20 A					RCPT: CORD REEL	1080 VA	1920 VA					UV-B119					25 A	1	20
1	1	25 A					UV-B121			1920 VA	0 VA			SPARE					20 A	1	22
3	1	25 A					UV-B124					1920 VA	0 VA	SPARE					20 A	1	24
5	1	20 A					SPARE	0 VA	0 VA					SPARE					20 A	1	26
7	1	20 A					SPARE			0 VA	0 VA			SPARE					20 A	1	28
9	1	20 A					SPARE					0 VA	0 VA	SPARE					20 A	1	30
							ED LOAD PER PHASE	764	0 VA	7640			8 VA								
	* -GF	CI BRE	AKER	** -SHU	INT TRIE	BREAKER			A B C #-PROVIDE BREAKER AS REQUIRED BY PANELBOARD MANUFACTURER FOR												

		PAN	ELE	BOAI	RD:	PPA1														
				Lo	cation:	CORR A	Recess	med MOUNTED 10,000 SYM. A.I.C					ENCLOSURE	TYPE 1	Гуре 1					
						AMP MAIN (I	LUGS) OR 100 A	AMP MAIN BR	EAKER W	ITH 10	0 A	AMP	TRIP							
				208Y/	120V	VOLTS	3 PHASE	4 WIRE	_	60 HI	ERTZ	100 A	AMP BUS	SE	LABEL _					
CKT NO.	POLES	TRIP AMPS	WIRE AWG	# OF WIRES	GRN. AWG	CONDUIT	LOAD SERVED	A		В	(LOAD SERVED	CONDUIT	GRN. AWG	# OF WIRES	WIRE AWG	TRIP AMPS	POLES	CKT NO.
1	1	20 A					RCPT: 134	540 VA 900 VA					RCPT: 134					20 A	1	2
3	1	20 A					RCPT: A110		540 VA	1920 VA			UV-A108					25 A	1	4
5	1	20 A					RCPT: 134				720 VA	900 VA	RCPT: 134					20 A	1	6
7	1	20 A					LTG: A106, A110 & 134	891 VA 1080 VA					RCPT: A108					20 A	1	8
9	1	20 A					RCPT: A110		720 VA	0 VA			SPARE					20 A	1	10
11	1	25 A					UV-A110				1920 VA	0 VA	SPARE					20 A	1	12
13	1	20 A					RCPT: A110	720 VA 0 VA					SPARE					20 A	1	14
15	1	20 A					SPARE		0 VA	0 VA			SPARE					20 A	1	16
17	1	20 A					RCPT: A110				720 VA	0 VA	SPARE					20 A	1	18
19	1	20 A					SPARE	0 VA 0 VA					SPARE					20 A	1	20
21	1	20 A					SPARE		0 VA	0 VA			SPARE					20 A	1	22
23	1	20 A					SPARE				0 VA	0 VA	SPARE					20 A	1	24
25	1	20 A					SPARE	0 VA 3840 VA												26
27	1	20 A					SPARE		0 VA	3840 VA			RCPT: KILN	3/4	#10	3	#8	40 A	3	28
29	1	20 A					SPARE				0 VA	3840 VA								30
					TOTA	L CONNECT	ED LOAD PER PHASE	7915 VA	702	0 VA	8100) VA								
	WIRE SI		#12, (1) ;	** -SHU #12 G. IN OTHERV	l 1/2"	P BREAKER	AL CONNECTED LOAD:	Α		В	(# -PROVID PANELBO						

SUPPLIED FROM: MDP2

TOTAL CONNECTED LOAD: 23.031 kVA

S.E.D	. Contr	ol No. 13-0)2-00-01-	-0-004-0
Rev. No.:	Date:	Description:		
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complex wo	orld CLEA	R SOLUTIONS		SKI
		eers, Architects nitects, P.C.	BIL	
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		ty School C ew York	District	

Reconstruction to: Rombout Middle School

Date: 10/28/2022

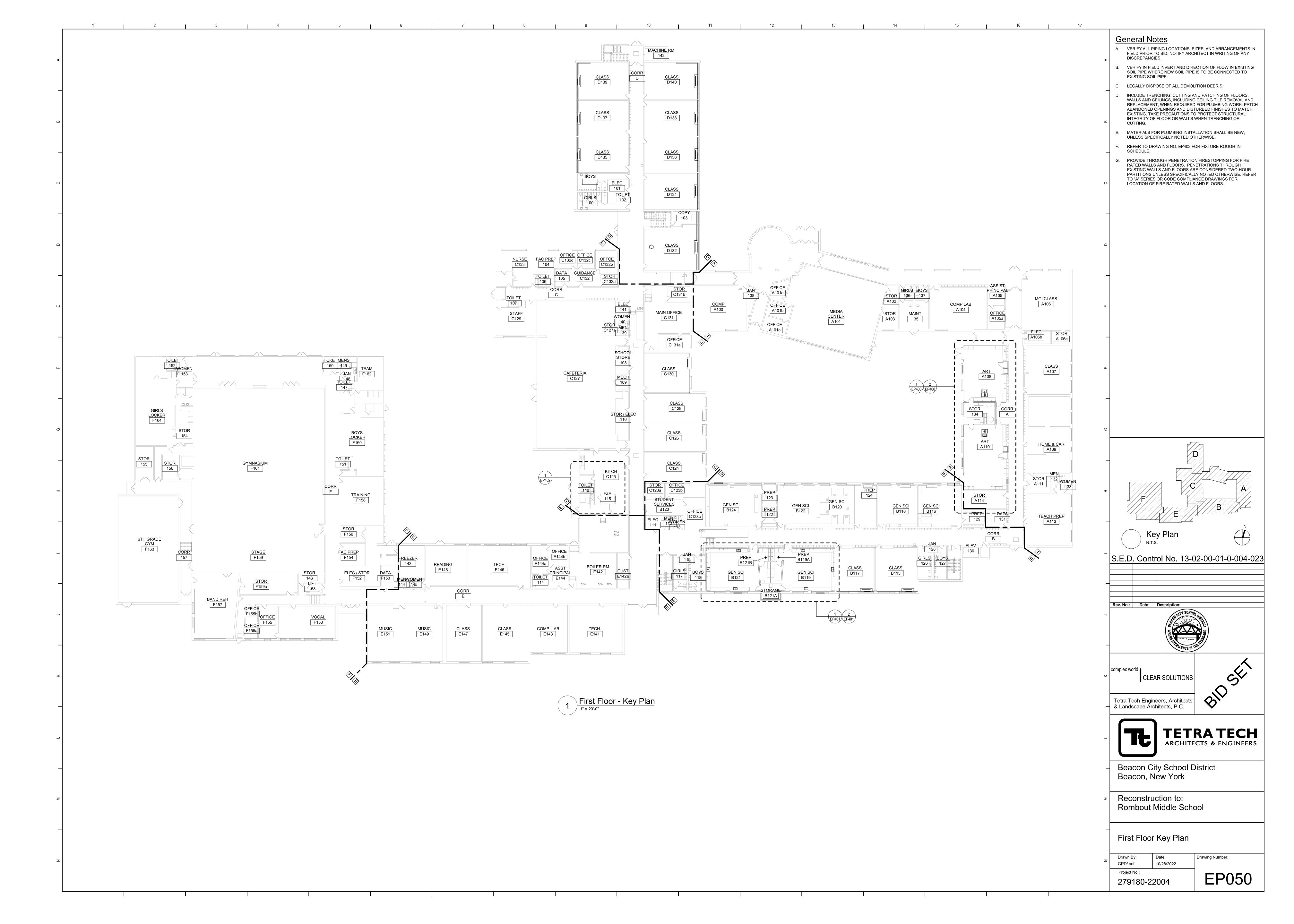
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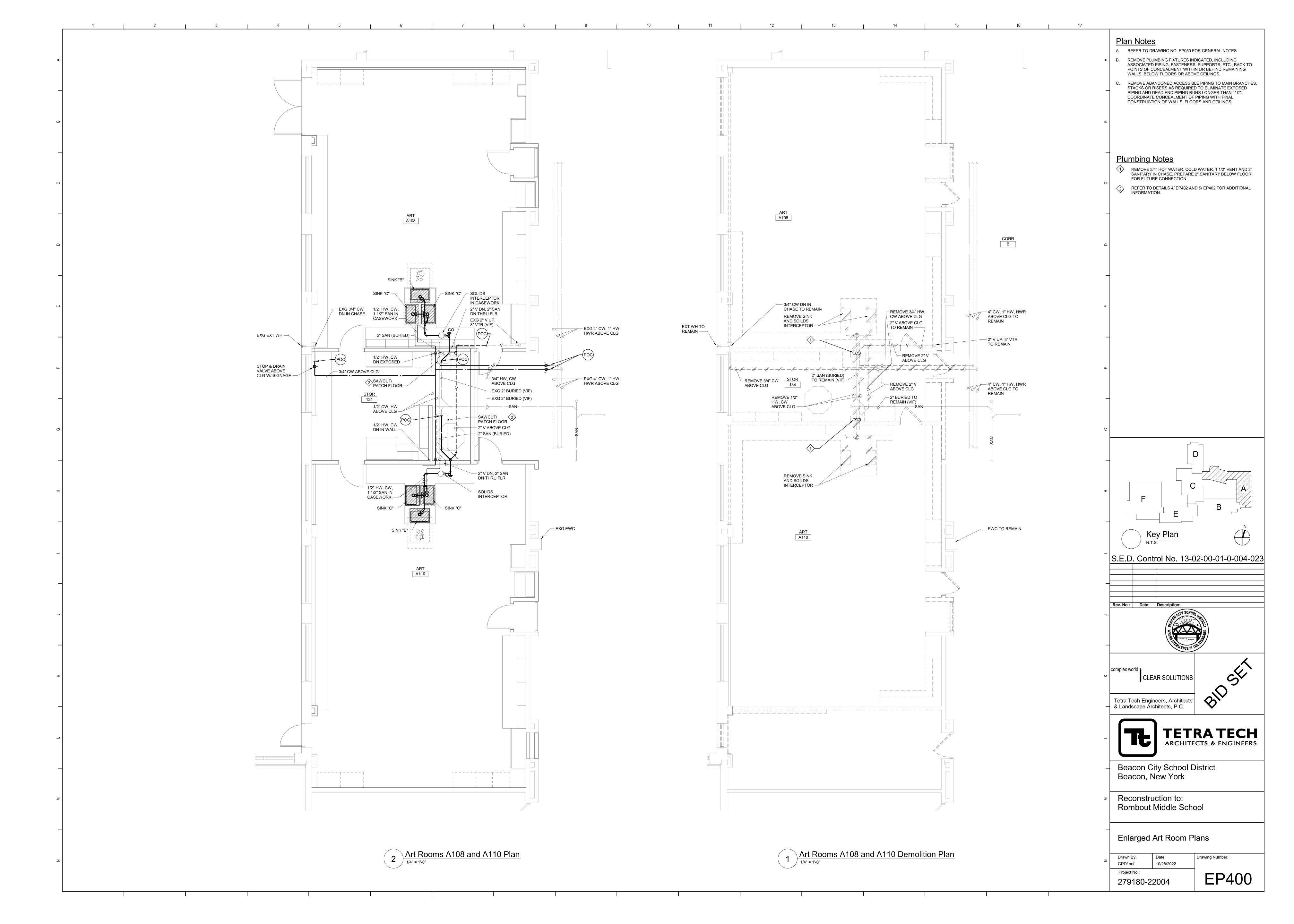
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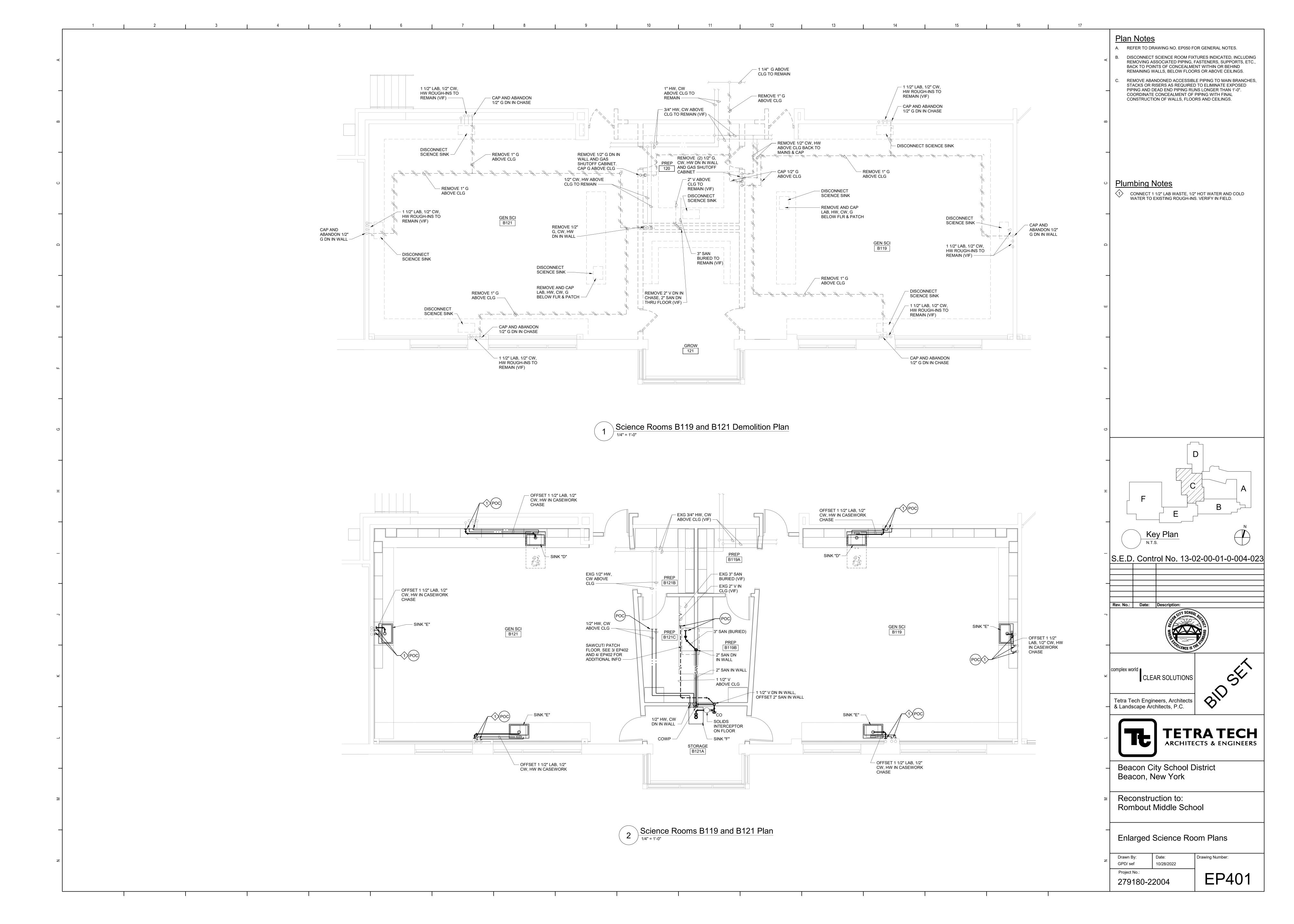
Schedules

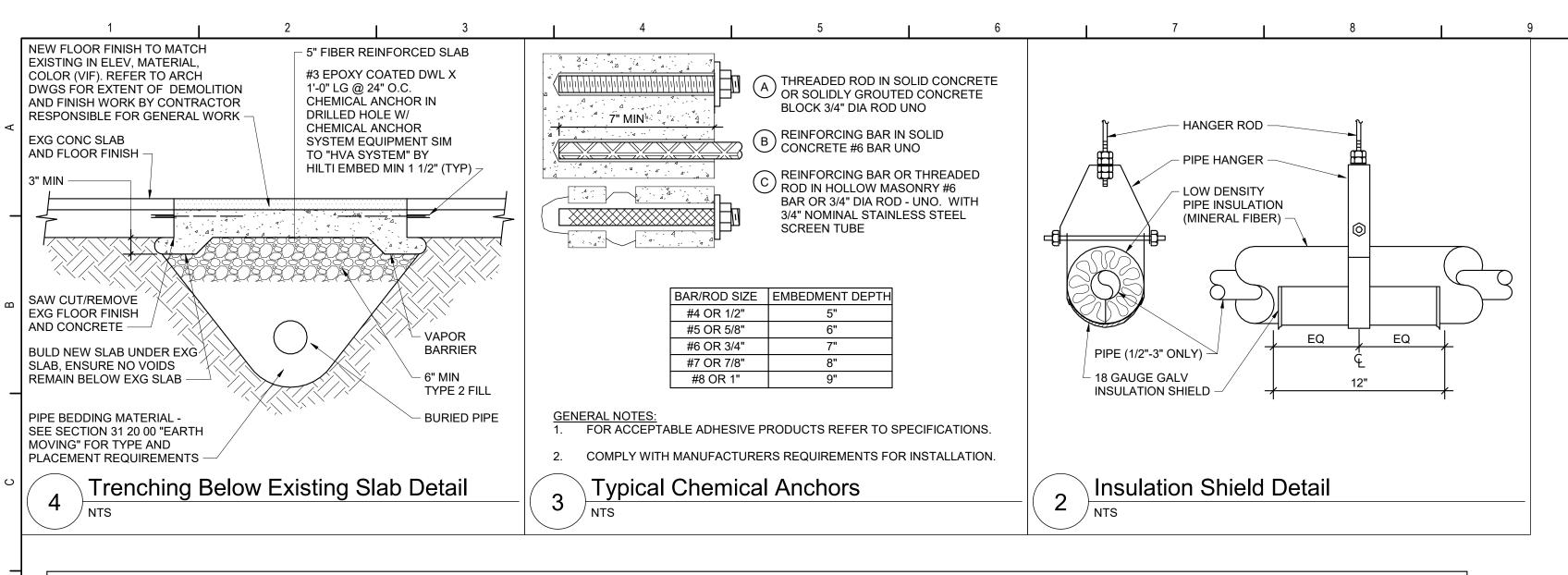
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Project No.:





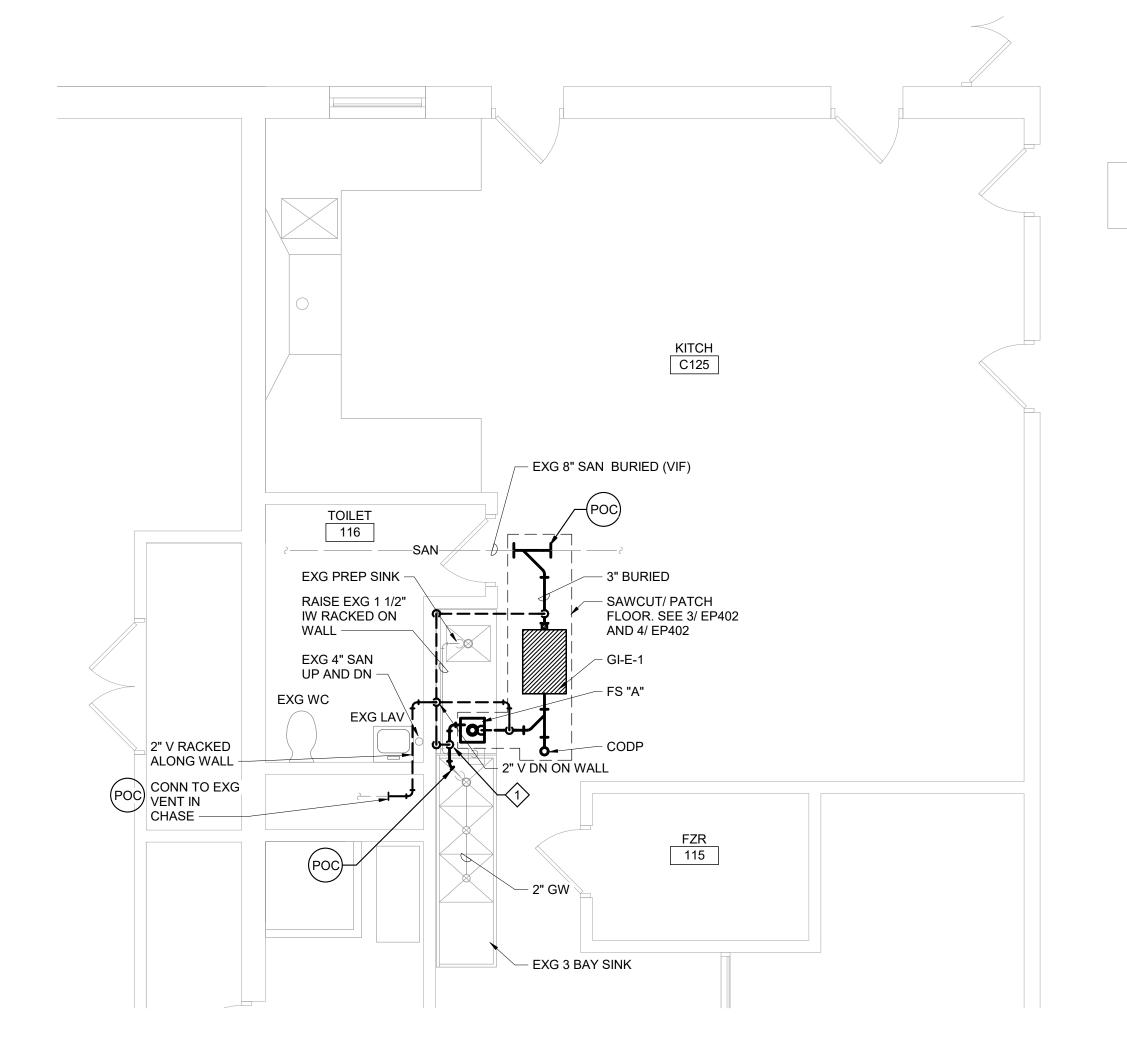




Grease	Grease Interceptor Schedule													
DWG LABEL	LOCATION	DESIGN MAKE AND MODEL	GREASE RETENTION CAPACITY (POUNDS)	PDI RATED FLOW RATE (GPM)	INSTALLATION	INLET / OUTLET SIZE (NPS)	CENTERLINE OF INLET / OUTLET TO BOTTOM (INCHES)	CENTERLINE OF INLET / OUTLET TO TOP (INCHES)	EXTENSION HEIGHT (INCHES)	LENGTH (INCHES)	WIDTH (INCHES)	HEIGHT (INCHES)	VENT SIZE (NPS)	NOTES
GI-E-1	KITCHEN C125	JR SMITH 8150	100	50	FLOOR MOUNTED	3	10	6	N/A	49-1/2	27-3/4	16	2	1
NOTES:														

PROVIDE EXTERNAL FLOW CONTROL FITTING SUPPLIED BY SAME MANUFACTERER AS GREASE INTERCEPTOR.

DWG	ROUGH-	IN CONNECT	TION SIZE (I	NCHES)	BARRIER	AGE	RIM	DESCRIPTION	NOTES
LABEL	SAN	VENT	CW	HW	FREE	GROUP	HEIGHT DESCRIPTION		NOTES
SINK "B"	1 1/2	1 1/2	1/2	1/2	YES	ADULT	-	ACCESSIBLE, LARGE, STAINLESS STEEL, COUNTER MOUNTED SINK W/ MANUAL, SINGLE CONTROL MIXING FAUCET W/ SWING SPOUT, SUPPLIES, OFFSET DRAIN FITTING AND TRAP.	
SINK "C"	1 1/2	1 1/2	1/2	1/2	NO	ADULT	-	LARGE, DEEP BOWL, STAINLESS STEEL, COUNTER MOUNTED SINK W/ MANUAL, SINGLE CONTROL MIXING FAUCET W/ SWING SPOUT, SUPPLIES, DRAIN FITTING, TRAP AND SOLIDS INTERCEPTOR.	1
SINK "D"	1 1/2	1 1/2	1/2	1/2	YES	ADULT	-	ACCESIBLE, EPOXY RESIN SINK W/ MANUAL, MANUAL TYPE, SINGLE HOLE, WRIST-BLADE-HANDLE MIXING VALVE SCIENCE SINK FAUCET W/ SINGLE ACTION EYEWASH, SUPPLIES, PP SINK OUTLET FITTING AND CORROSION RESISTANT TRAP.	
SINK "E"	1 1/2	1 1/2	1/2	1/2	NO	ADULT	-	EPOXY RESIN SINK W/ MANUAL, MANUAL TYPE, SINGLE HOLE, TWO-CROSS-HANDLE MIXING VALVE SCIENCE SINK FAUCET, SUPPLIES, PP SINK OUTLET FITTING AND CORROSION RESISTANT TRAP.	
SINK "F"	1 1/2	1 1/2	1/2	1/2	NO	-	-	FLOOR MOUNTED, MOLDED LAUNDRY TUB WITH MANUAL TYPE, DECK MOUNT MIXING FAUCET WITH LEVER HANDLES AND SWING SPOUT, SUPPLIES, DRAIN FITTING WITH STOPPER AND TRAP AND SOLIDS INTERCEPTOR.	1



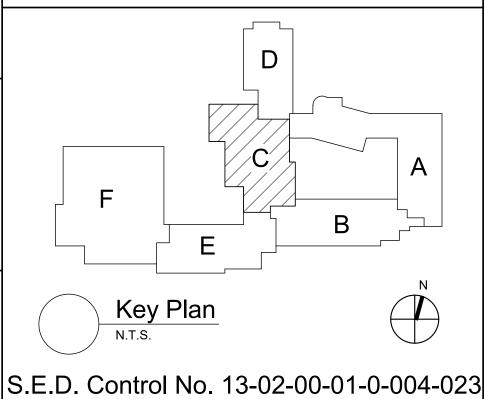


Plan Notes

- A. REFER TO DRAWING NO. EP050 FOR GENERAL NOTES.
 B. REMOVE PLUMBING FIXTURES INDICATED, INCLUDING ASSOCIATED PIPING, FASTENERS, SUPPORTS, ETC., BACK TO POINTS OF CONCEALMENT WITHIN OR BEHIND REMAINING WALLS, BELOW FLOORS OR ABOVE CEILINGS.
- C. REMOVE ABANDONED ACCESSIBLE PIPING TO MAIN BRANCHES, STACKS OR RISERS AS REQUIRED TO ELIMINATE EXPOSED PIPING AND DEAD END PIPING RUNS LONGER THAN 1'-0". COORDINATE CONCEALMENT OF PIPING WITH FINAL CONSTRUCTION OF WALLS, FLOORS AND CEILINGS.

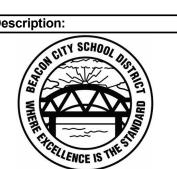
Plumbing Notes

FLOW CONTROL FITTING SUPPLIED BY GREASE INTERCEPTOR MANUFACTURER.



5.E.D. CONTONO. 13-02-00-01-0-004-023

Rev. No.: Date: Description:



complex world CLEAR SOLUTIONS

Tetra Tech Engineers, Architects & Landscape Architects, P.C.

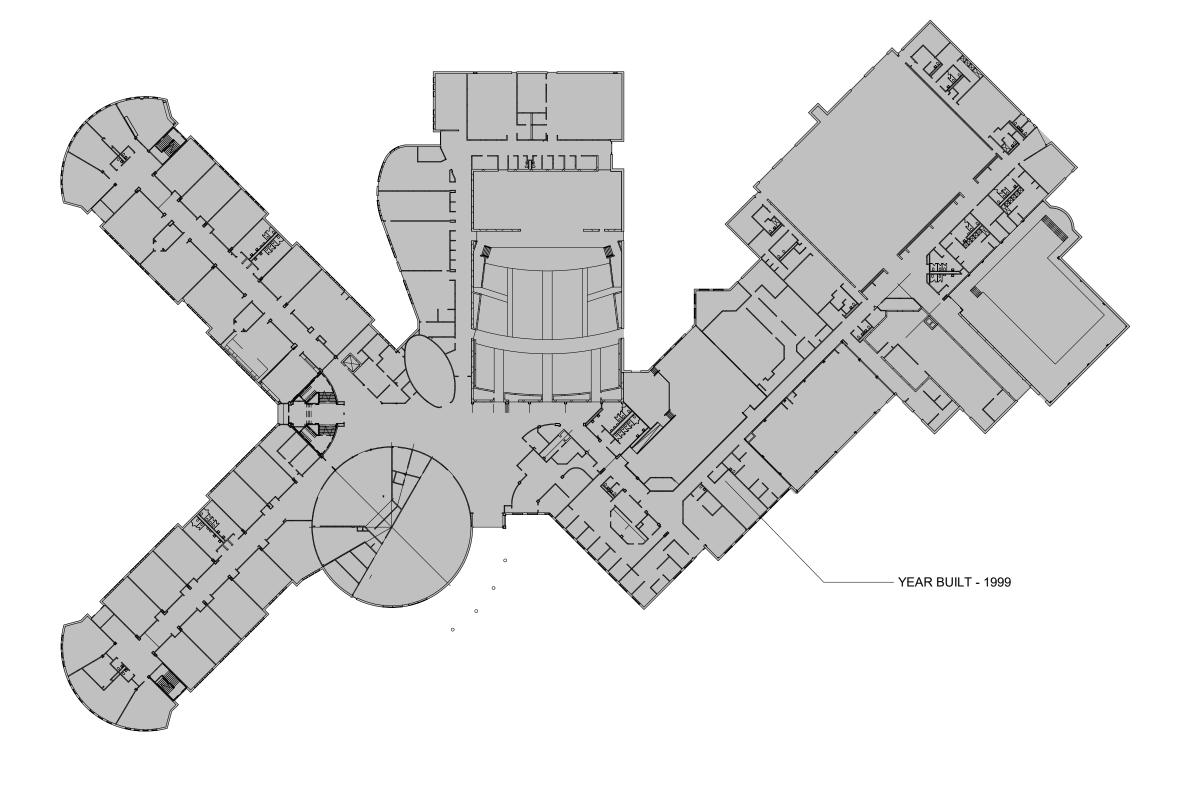


Beacon City School District Beacon, New York

Reconstruction to:
Rombout Middle School

Enlarged Kitchen Plans, Schedule and Details

Drawn By:	Date:	Drawing Number:
GPD/ sef	10/28/2022	
Project No.:		
279180-2	EP4	



Code Compliance Review

PROJECT LOCATION: 101 MATTEAWAN RD, BEACON, NY 12508 BOUNDED BY MATTEAWAN RD TO THE SOUTH

PROJECT DESCRIPTION:
THIS PROJECT INCLUDES RENOVATION OF APPROXIMATELY 13,025 SF OF SPACE ON THE FIRST AND SECOND

WORK GENERALLY CONSISTS OF THE FOLLOWING:

ALTERATIONS - LEVEL 1

 ADA ACCESS RAMP FOR SIDEWALK RESURFACE TRACK, LONG JUMP, POLE VAULT, JAVELIN

 REPLACE PAD AND FENCING AT DISCUS/SHOT PUT REHABILITATION OF ATHLETIC FIELD

ALTERATIONS - LEVEL 2 UPDATE TV STUDIO LEARNING SPACE UPDATE SCIENCE AREA MEZZANINE IN FITNESS AREA

APPLICABLE CODES [AND STANDARDS]:

BASED ON THE NEW YORK STATE UNIFORM FIRE PREVENTION AND BUILDING CODE INCLUDING APPLICABLE 2018 ICC CODES AND 2020 BUILDING CODES of NYS, AND ICC A117.1-2017 STANDARD FOR ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES.

REFER TO PROJECT MANUAL FOR REQUIREMENTS STATED IN "NYCRR 155 REGULATIONS OF THE COMMISSIONER OF EDUCATION".

BUILDING DATA:

NEW SAND PITS

BUILDING: BEACON CITY HIGH SCHOOL 101 MATTEAWAN RD,

BEACON, NY 12508 DESCRIPTION: TWO STORY MASONRY AND REINFORCED

CONCRETE BUILDING.

YEAR BUILT: 1999 - DODGE CHAMBERLIN LUZINE WEBER ASSOCIATES ARCHITECTS

BUILDING AREA: 1ST FLOOR 152,300 SQFT 2ND FLOOR 55,700 SQFT

TOTAL GROSS AREA= 208,000 SQFT

CODE DATA SUMMARY:

USE GROUP: E : EDUCATION

CONSTRUCTION TYPE -

WORK AREA:

EXISTING:

FIRE SAFETY: PARTIALLY EQUIPPED WITH AN AUTOMATIC SPRINKLER SYSTEM AND FIRE HOSE STATIONS. REFER TO BUILDING AREA DATA BELOW FOR SPECIFIC AREAS

2.9%

PROVIDED.

LOCATION AREA

CORRIDOR DOORS: ALL CORRIDOR DOORS SCHEDULED TO BE REPLACED SHALL HAVE MINIMUM FIRE DOOR ASSEMBLY RATING OF 20 MINUTES IN ACCORDANCE WITH SECTION 716.5

1,616 SQFT

PATH OF CODE COMPLIANCE:

2018 IEBC CODES AND 2020 EXISTING BUILDING CODE of NYS 301.1.2 WORK AREA COMPLIANCE METHOD

2ND FLOOR

CHAPTER 5 - CLASSIFICATION OF WORK 503 ALTERATION - LEVEL 1 (CHAPTER 7)

504 ALTERATION - LEVEL 2 (CHAPTER 8)

NEW CONSTRUCTION WILL COMPLY WITH REQUIREMENTS OF 2018 ICC CODES AND 2020 BUILDING CODES of NYS

ACCESSIBLE ROUTE AND ACCESSIBLE ENTRANCES: FOR EXTERIOR ACCESSIBLE ROUTE AND ACCESSIBLE ENTRANCES - SEE FG300.

EXIT TRAVEL DISTANCE (PER TABLE 1017.2): FOR EXIT TRAVEL DISTANCE - SEE FG351.

STAIR AND OTHER EXIT WIDTH CALCULATIONS (PER 1005.3.1 AND 1005.3.2): FOR EXIT TRAVEL DISTANCE - SEE FG351.

CORRIDOR ENCLOSURES (PER TABLE 1020.1): FOR CORRIDOR FIRE RESISTANCE - SEE ENLARGED PLANS, PARTITION TYPES AND DOOR SCHEDULE. ALL CROSS CORRIDOR PARTITIONS ARE SMOKE PARTITIONS AND EXTEND FROM FINISH FLOOR TO DECK ABOVE.

UL DESIGN NUMBERS:

UL# S721 BAR JOISTS UL# D902 COMPOSITE SLAB UL# D902 COLUMNS UL# X528 1 HR. STUD PARTITIONS UL# U465 1 HR. BLOCK PARTITIONS UL# U905 2 HR. BLOCK PARTITIONS UL# U905

1. RATING PROVIDED BY 4" SOLID CONCRETE MASONRY UNITS - DETERMINATION OF EQUIVALENT THICKNESS OF CMU REQUIRED IS BASED ON SECTION 721 PRESCRIPTIVE FIRE RESISTANCE, TABLE 721.1 (2) RATED FIRE RESISTANCE PERIODS FOR VARIOUS WALLS AND PARTITIONS, ITEM NUMBER 3-1.2

2. ALL CMU CONSTRUCTION SHALL MEET FIRE RESISTANCE REQUIREMENTS INDICATED IN CHART OF SAME NAME ABOVE, BLOCK TYPE AS REQUIRED TO COMPLY WITH UL DESIGN NUMBERS AND AS REQUIRED TO COMPLY WITH RATED WALLS INDICATED ON CODE COMPLIANCE DRAWINGS. PROVIDE MINIMUM 4" SOLID CMU AT SUCH LOCATIONS <u>REGARDLESS</u> IF NOTED AS SUCH ON PLAN DETAILS.

INTERIOR FINISH REQUIREMENTS:

ALL FINISHES IN CORRIDORS AND ASSEMBLY SPACES SHALL HAVE A FIRE HAZARD CLASSIFICATION PER MANUAL OF PLANNING STANDARDS SECTION S202-2, a. THROUGH e. [DELETE IF NOT A SCHOOL PROJECT]

RESCUE LABEL / SIGNAGE NOTES:

REFER TO PLANS FOR RESCUE WINDOW LOCATIONS.

2. REFER TO SIGNAGE SPECIFICATION AND SIGNAGE DRAWINGS FOR TYPES AND LOCATIONS.

PROVIDE MAX OCCUPANCY SIGNS FOR THE FOLLOWING:

DRAWINGS FOR TYPES AND LOCATIONS.

SIGNAGE FOR BAR JOIST

SIGNAGE FOR AED'S

REFER TO SPECIFICATION SECTION 10 14 00 AND SIGNAGE

General Code Notes

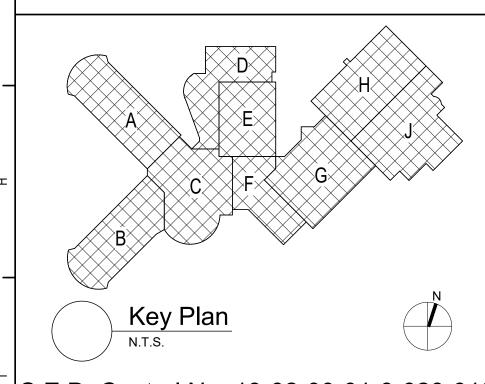
- REFER TO CODE COMPLIANCE DRAWINGS FOR ADDITIONAL CODE COMPLIANCE INFORMATION.
- COORDINATE WITH FLOOR PLANS, WALL SECTIONS AND PARTITION TYPES FOR RATED WALL TYPES AND LOCATIONS. IMMEDIATELY NOTIFY ARCHITECT OF ANY WALL RATING DISCREPANCIES BETWEEN FG351 AND FG352 DRAWINGS AND
- ALL WALLS, INCLUDING AT CORRIDORS, SHALL EXTEND COMPLETELY TO THE UNDERSIDE OF DECKING, SUPPORTING STRUCTURE OR ROOF ABOVE, TYPICAL UNLESS NOTED
- AT AREAS OF PROJECT WORK, COMPLETELY SEAL ALL PENETRATIONS REQUIRED TO COMPLY WITH FIRE RESISTANCE RATINGS IDENTIFIED ON FG351 AND FG352, REGARDLESS IF WALL IS NEW OR EXISTING, TYPICAL UNLESS NOTED OTHERWISE.
- PROVIDE APPLIED FIREPROOFING TO ALL BEAMS, JOISTS AND STRUCTURAL STEEL ELEMENTS AT ALL FIRE BARRIERS, FIRE PARTITIONS, AND OTHER RATED WALLS WHERE INDICATED ON DRAWINGS, AND THAT ARE NOT COMPLETELY PROTECTED WITHIN THE RATED CONSTRUCTION. PROTECTION OF SUCH ELEMENTS SHALL MATCH THE RATING OF THE WALL THAT THE
- ALL CMU CONSTRUCTION SHALL MEET FIRE RESISTANCE REQUIREMENTS INDICATED. PROVIDED BLOCK TYPE AS REQUIRED TO COMPLY WITH UL DESIGN NUMBERS AND WALL RATINGS INDICATED, <u>REGARDLESS</u> IF NOTED AS SUCH ON PLAN

General Notes

A. DO <u>NOT</u> SCALE DRAWINGS TO OBTAIN DIMENSIONS.

ELEMENTS ARE CONTAINED WITHIN.

- B. TAKE FIELD MEASUREMENTS TO FIT THE WORK PROPERLY. VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS IN THE
- REFER INCONSISTENCIES TO ARCHITECT PRIOR TO COMMENCING THE WORK IN AFFECTED AREA.
- ITEMS ARE SHOWN DIAGRAMMATICALLY ON DRAWINGS. VERIFY SPACE REQUIREMENTS AND DIMENSIONS TO FIT THE WORK
- NOTES SHOWN ON ONE DRAWING APPLY TO ALL SIMILAR DRAWINGS.
- DO NOT DISTURB CONSTRUCTION SUSPECTED OF CONTAINING HAZARDOUS MATERIAL. IF ENCOUNTERED, IMMEDIATELY NOTIFY ARCHITECT[, CONSTRUCTION MANAGER] AND OWNER.



S.E.D. Control No. 13-02-00-01-0-020-012

Rev. No.: Date: Description:



CLEAR SOLUTIONS

Tetra Tech Engineers, Architects & Landscape Architects, P.C.



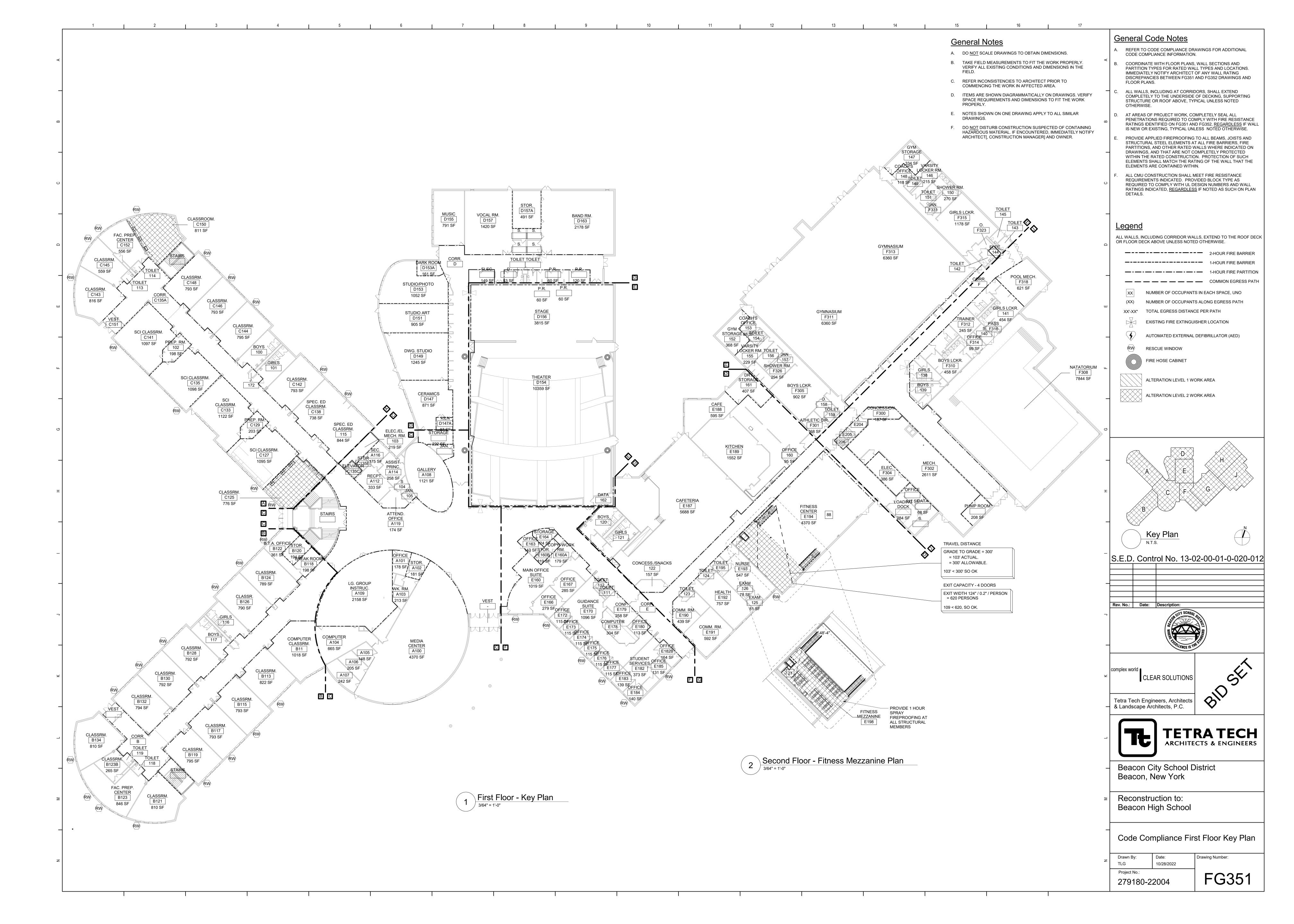
Beacon City School District Beacon, New York

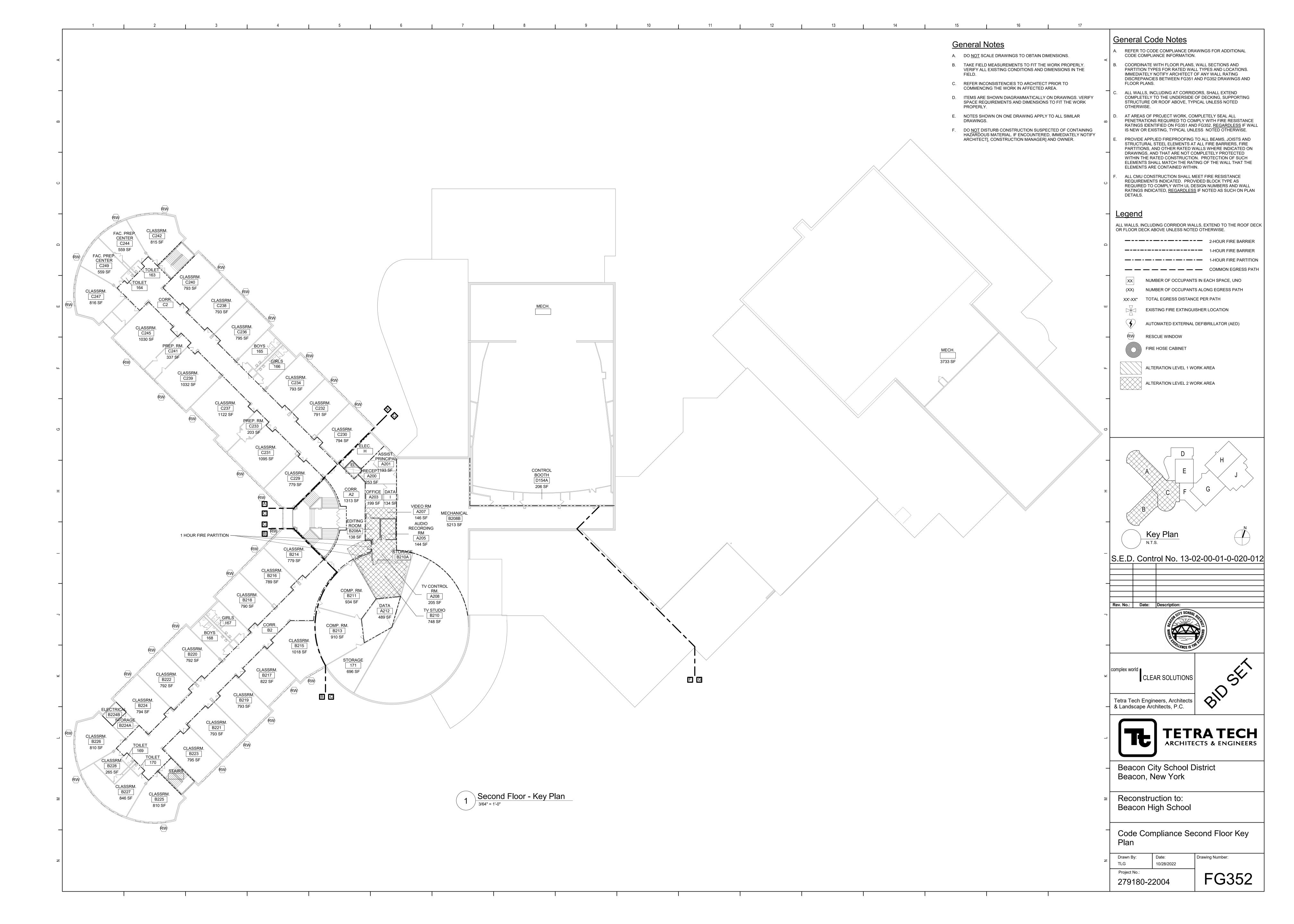
Reconstruction to: Beacon High School

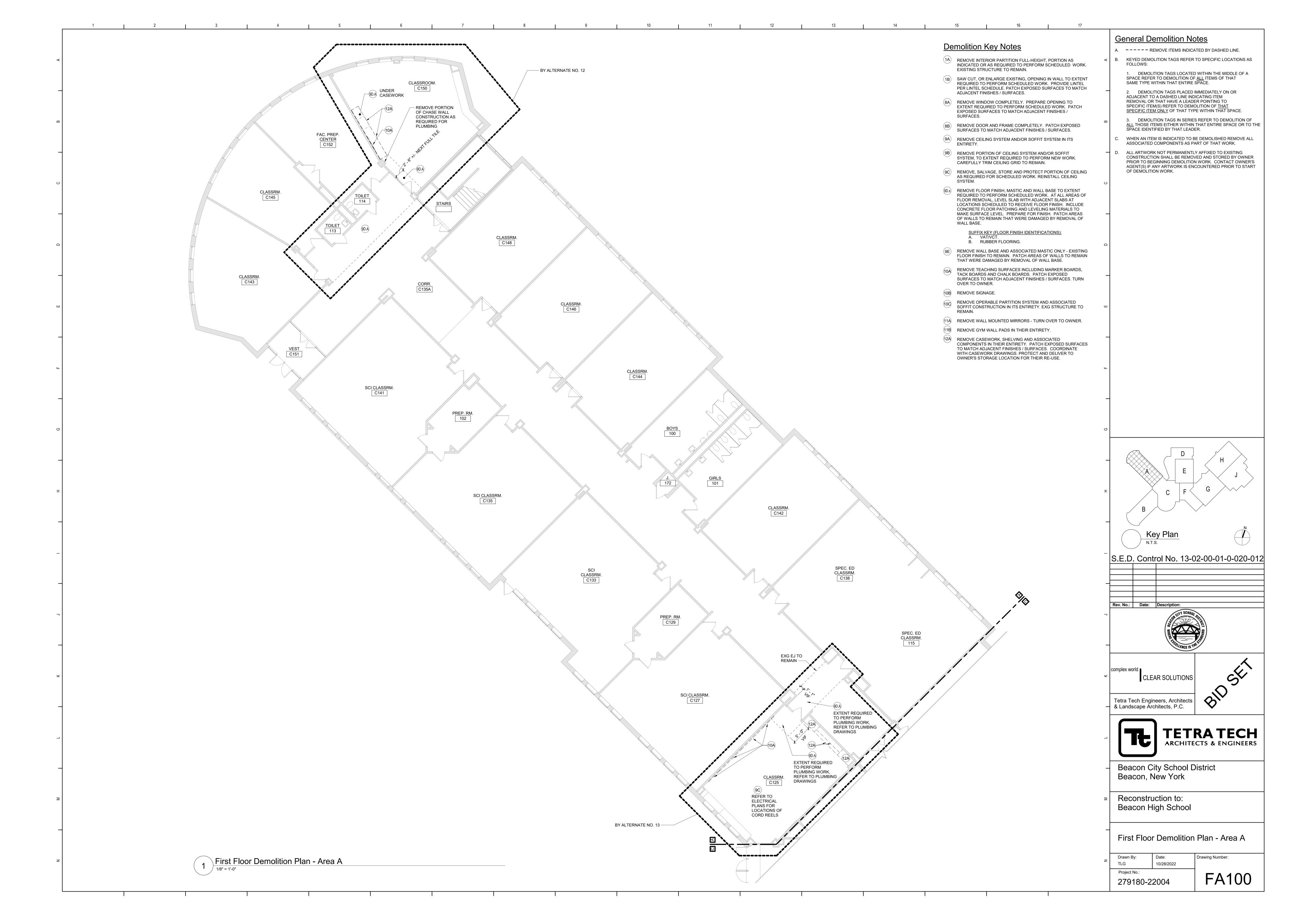
Code Compliance Review

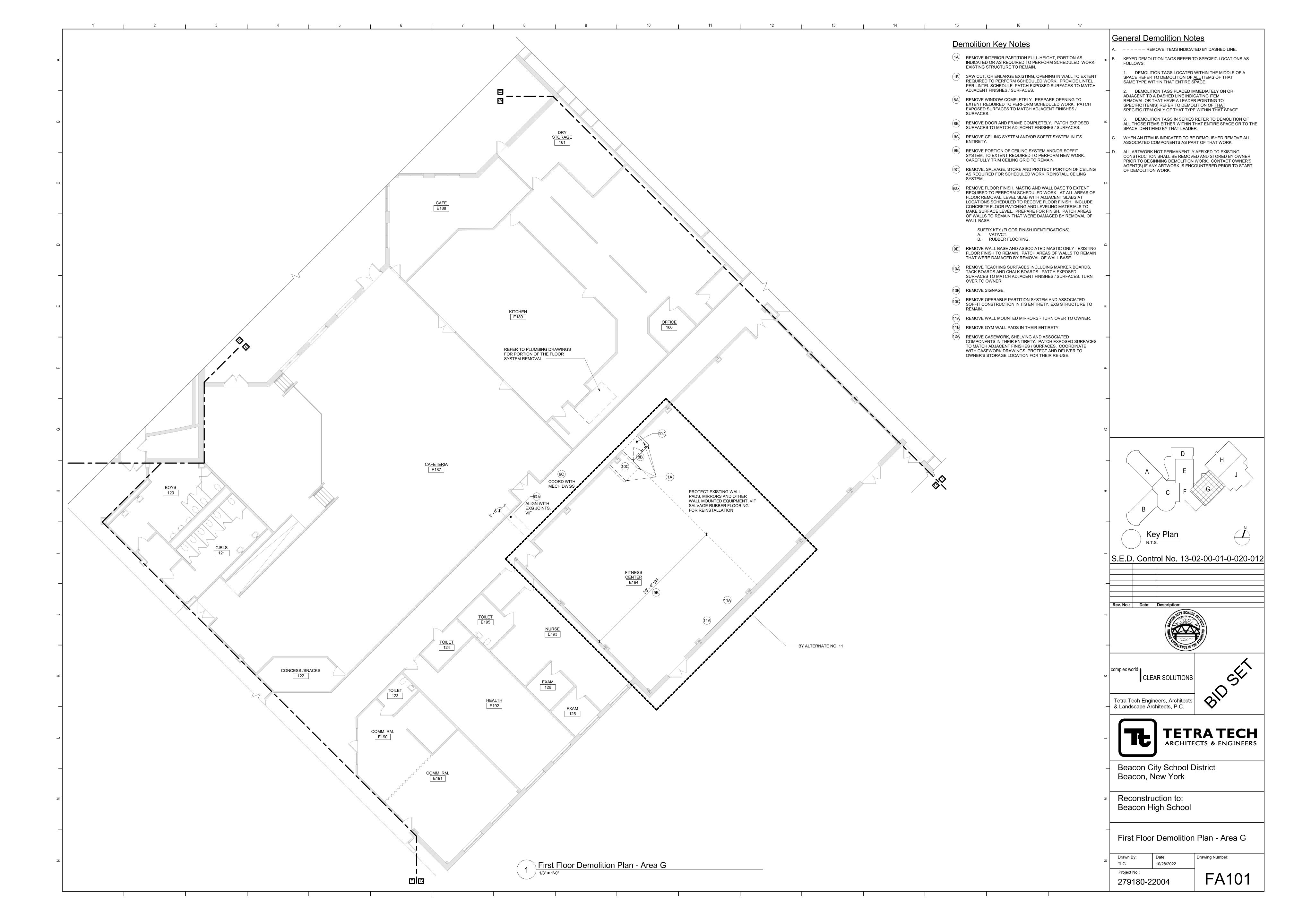
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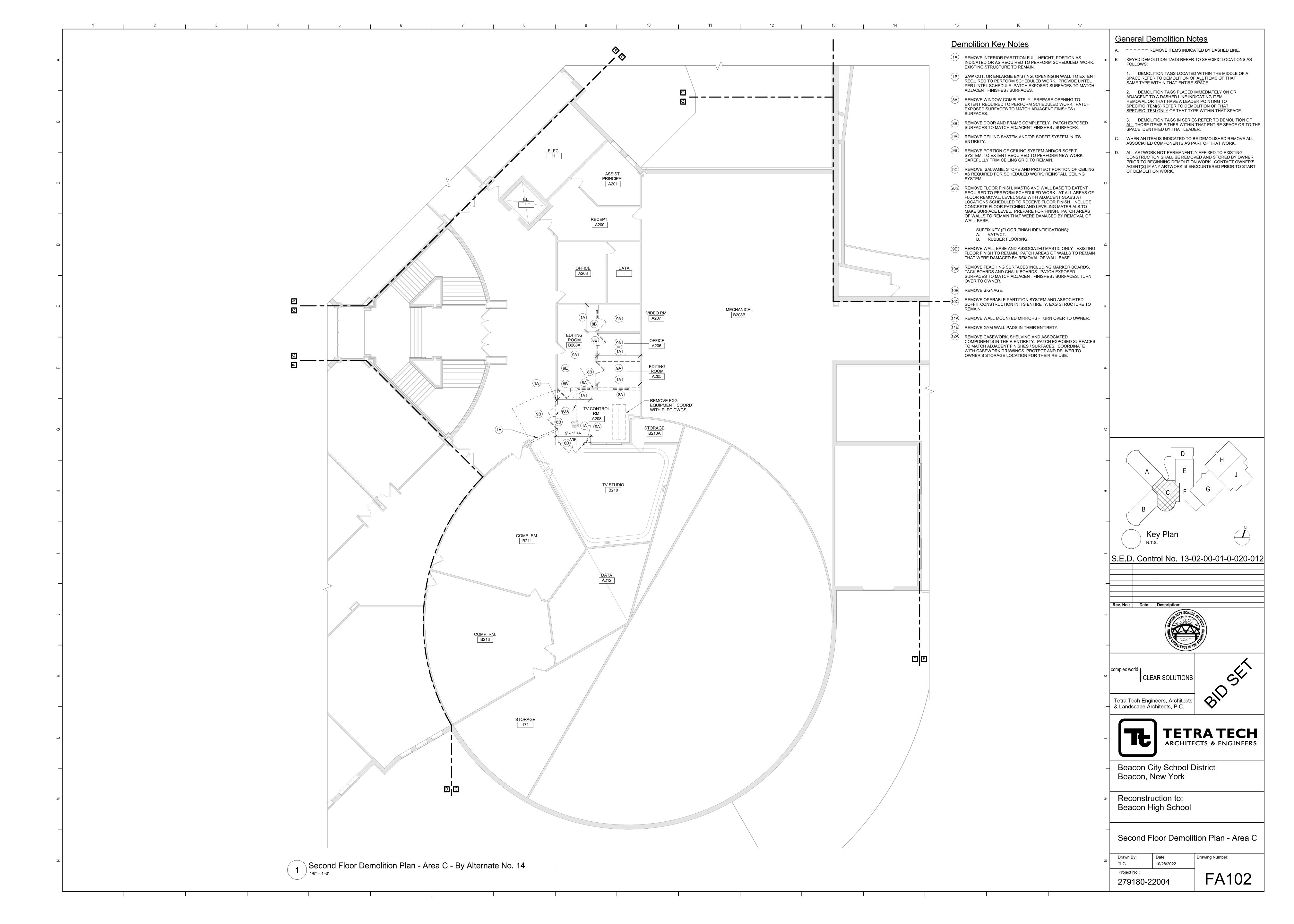
FG350 279180-22004

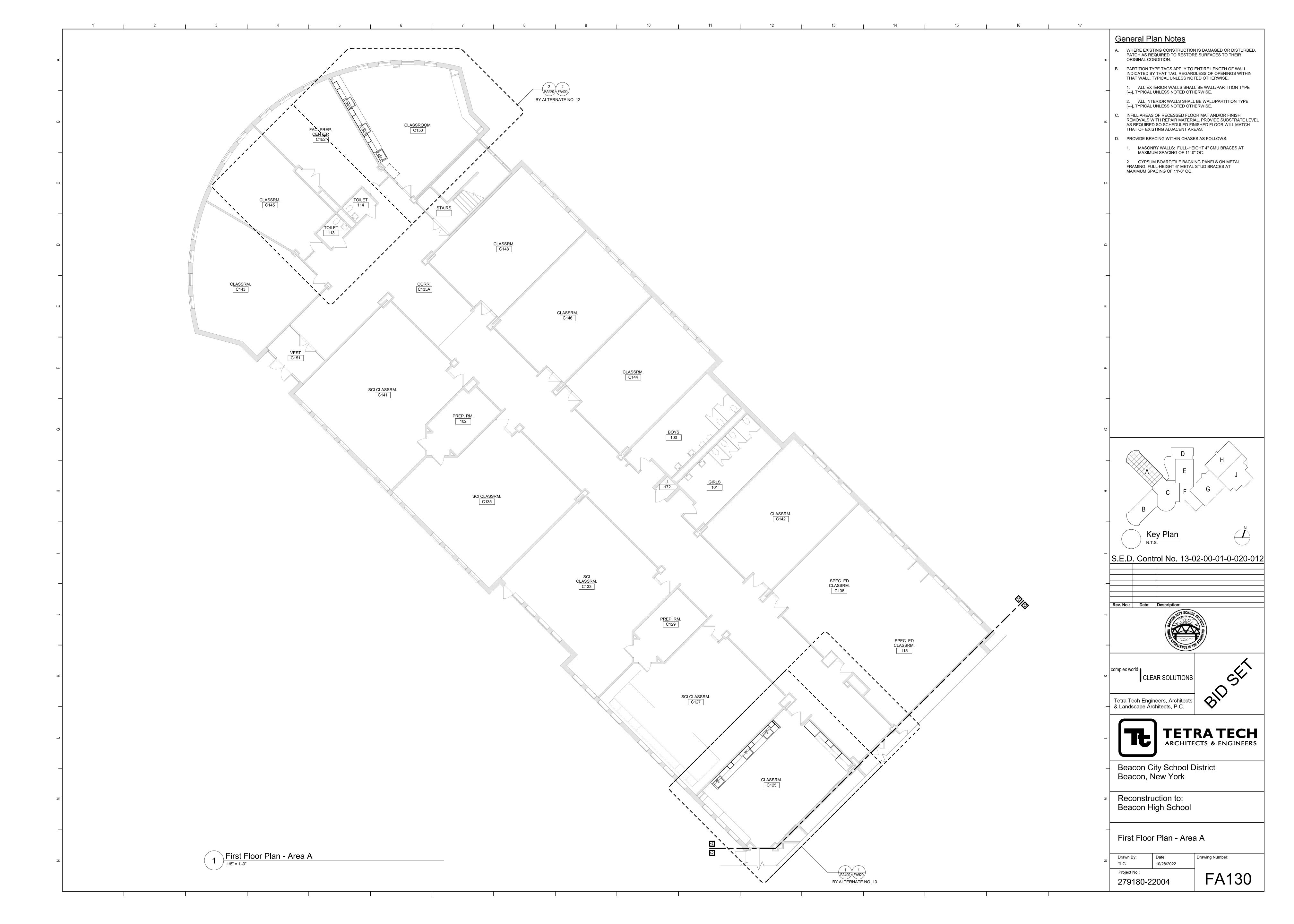


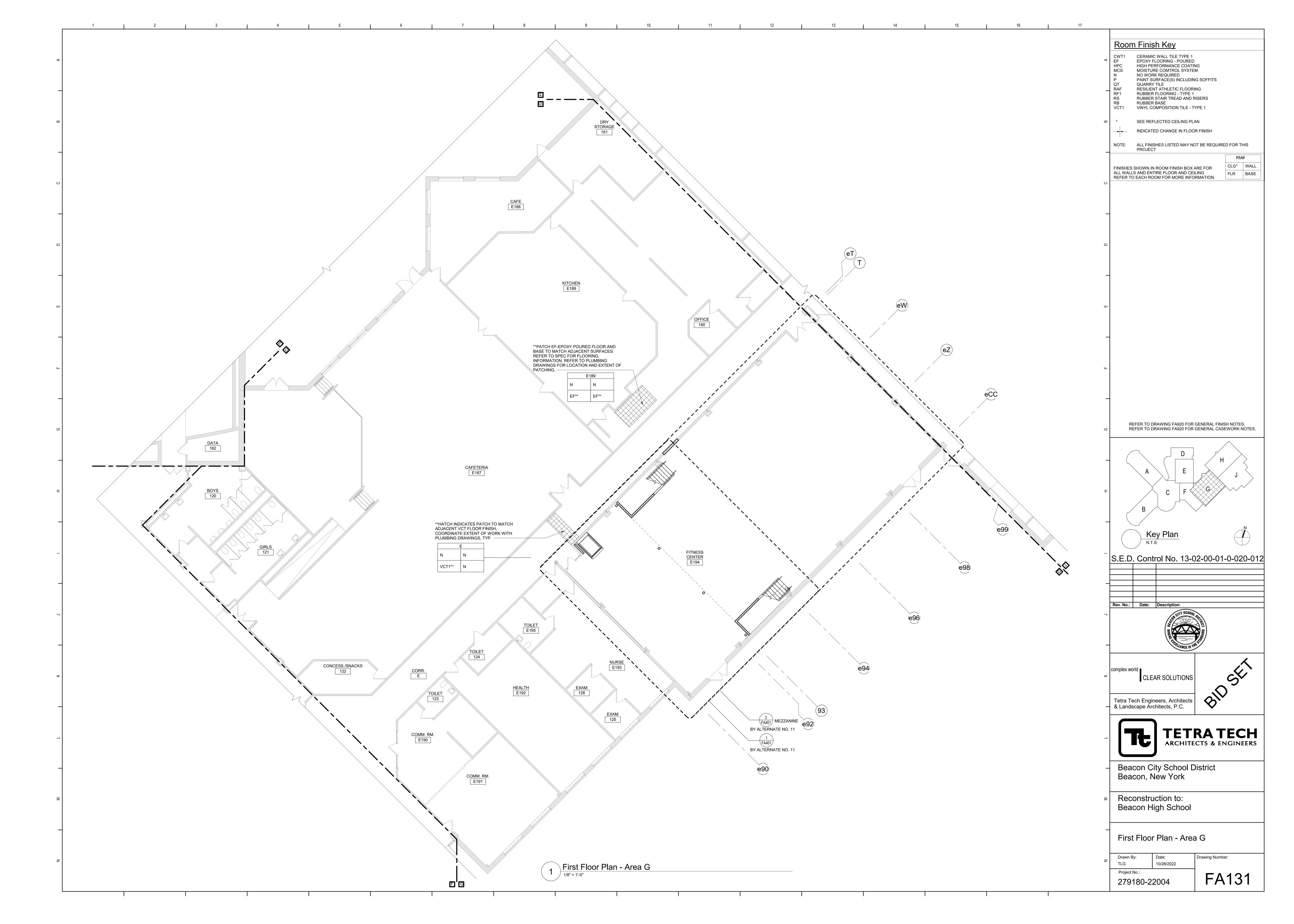


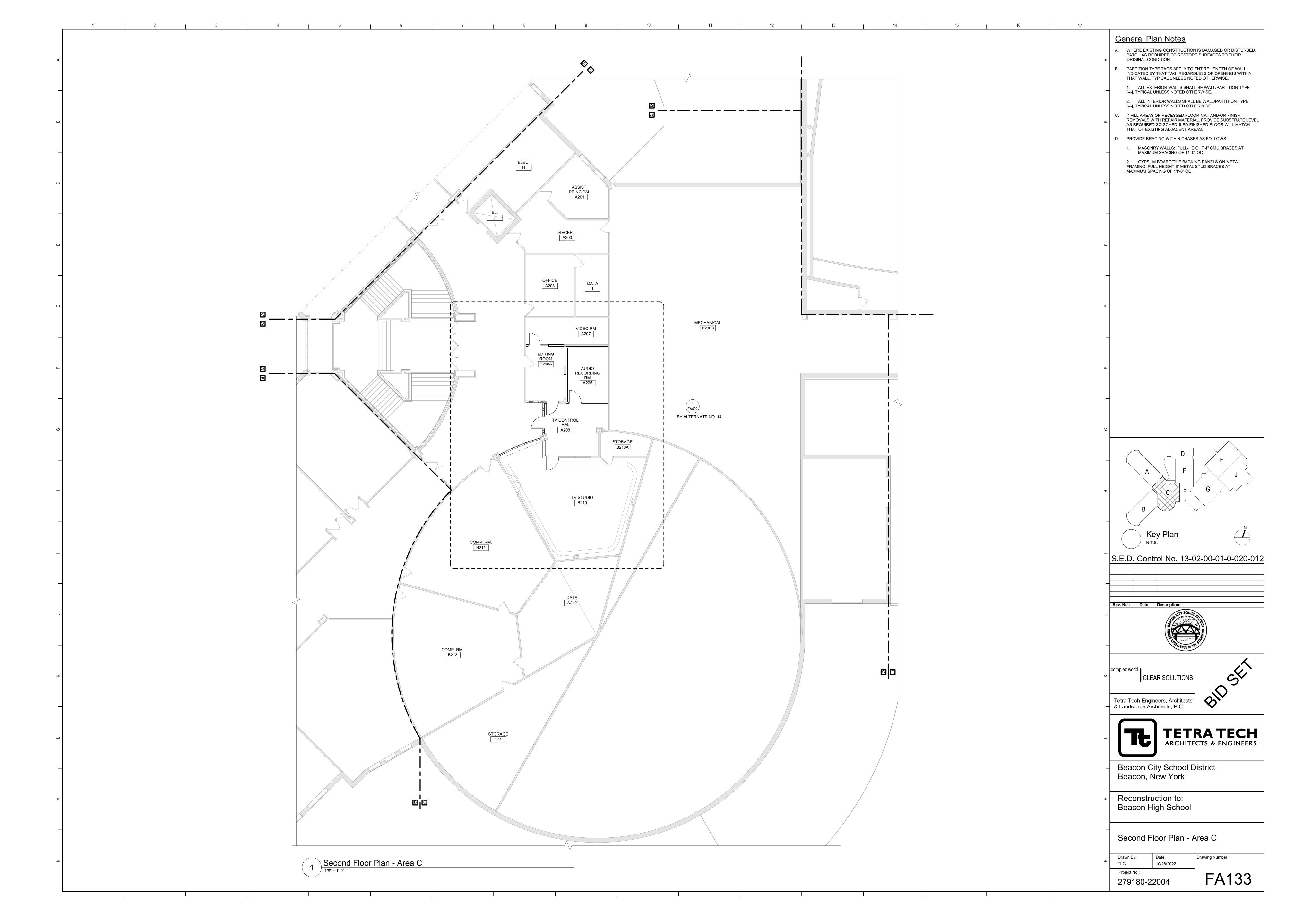


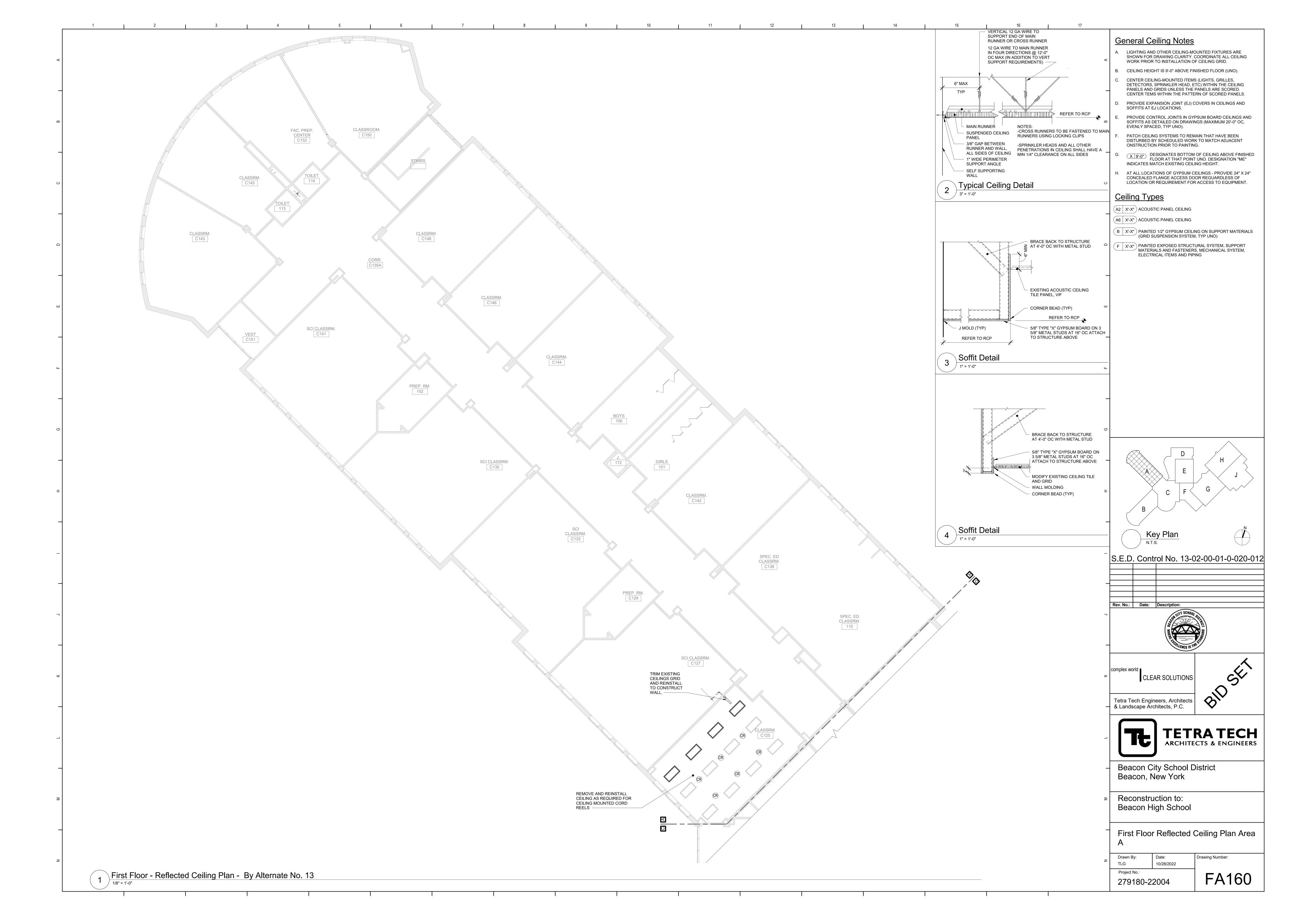


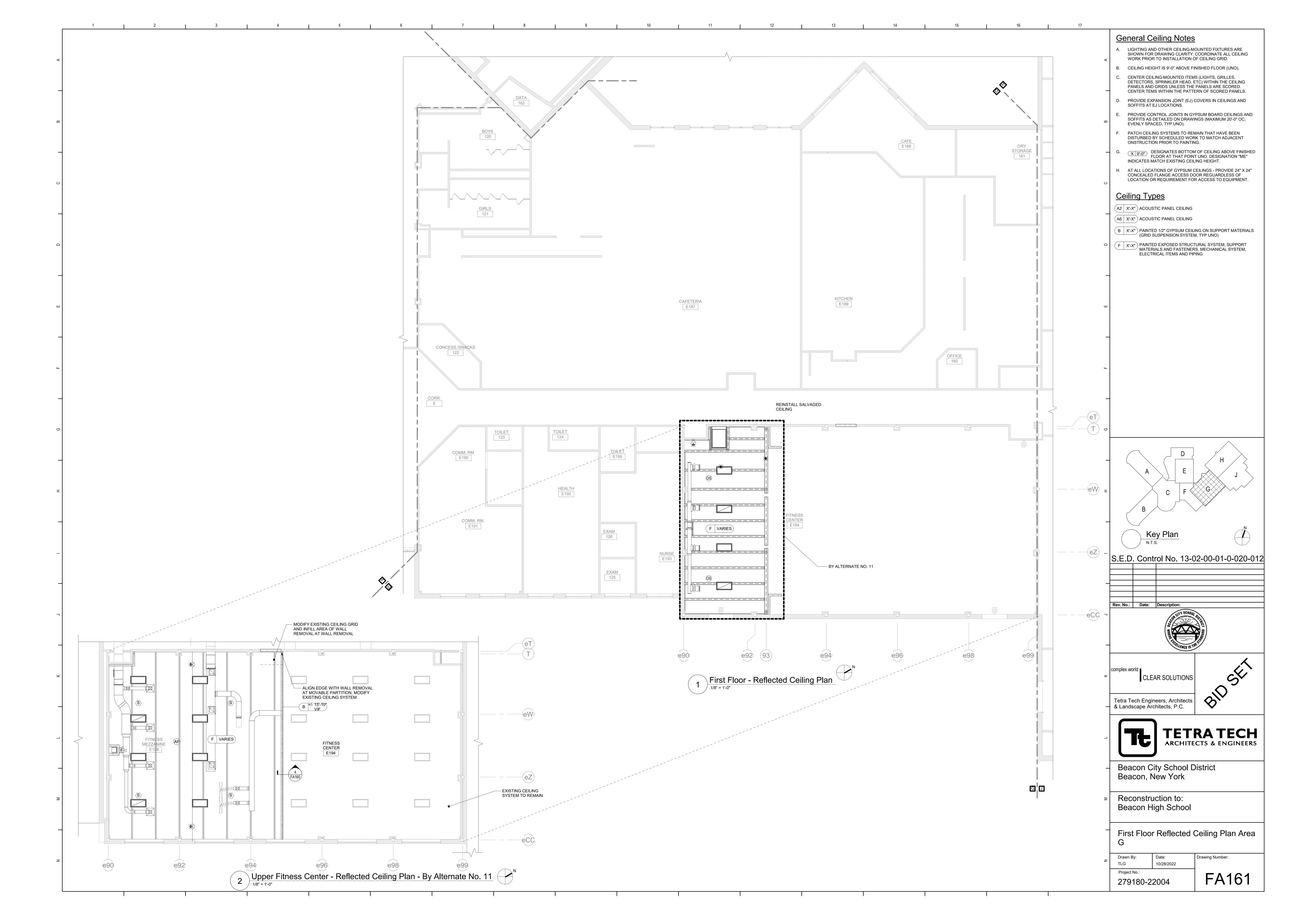


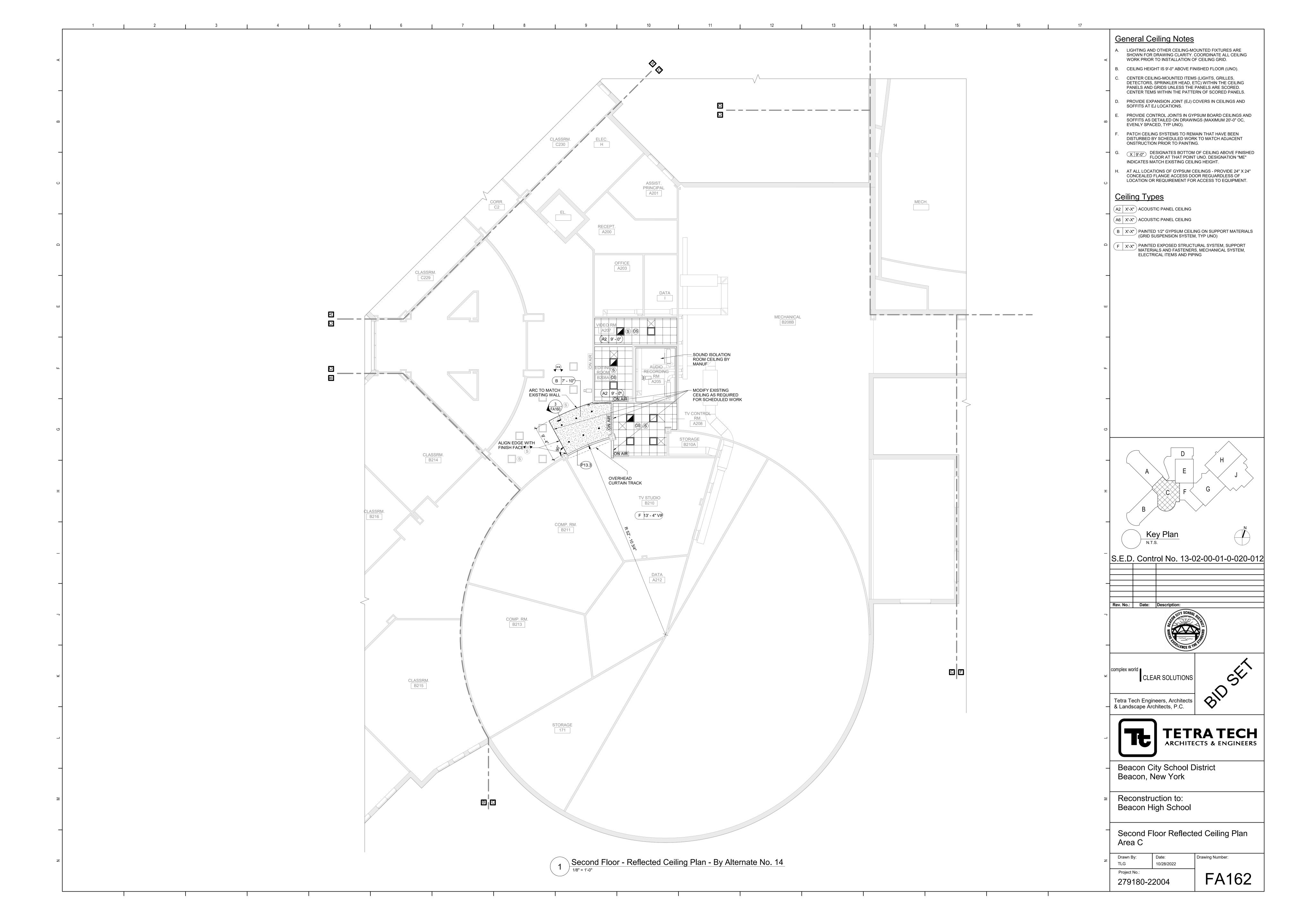


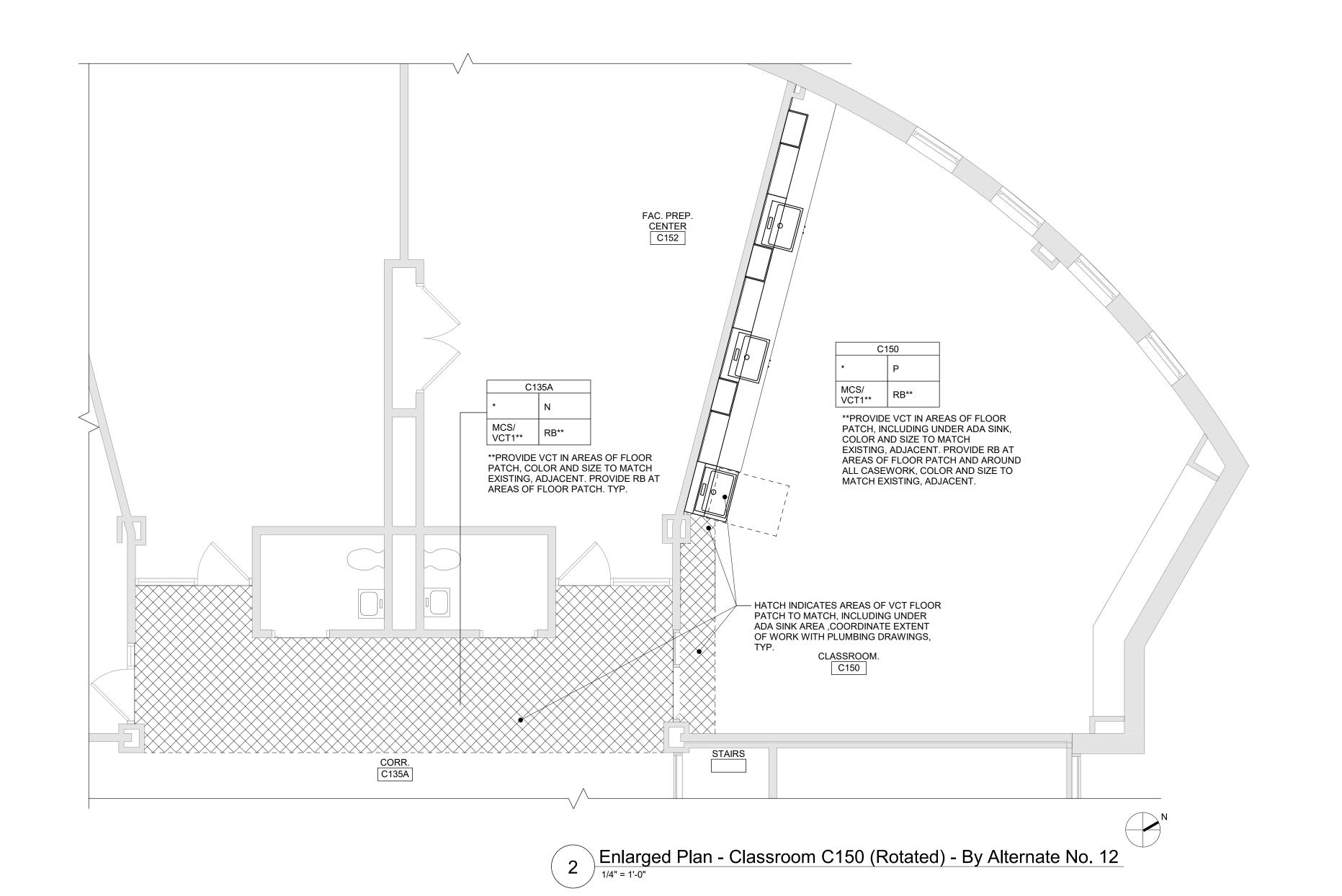


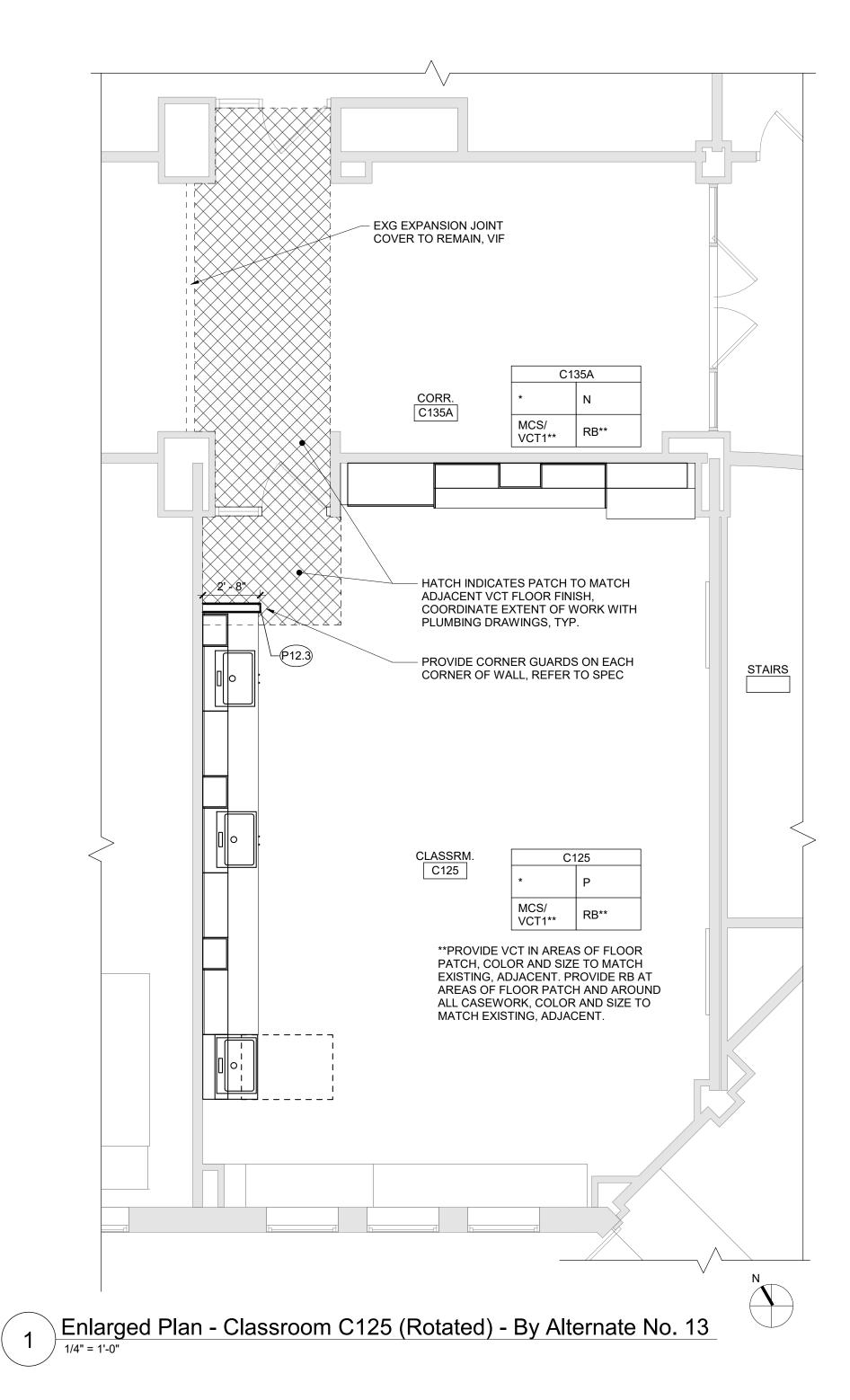


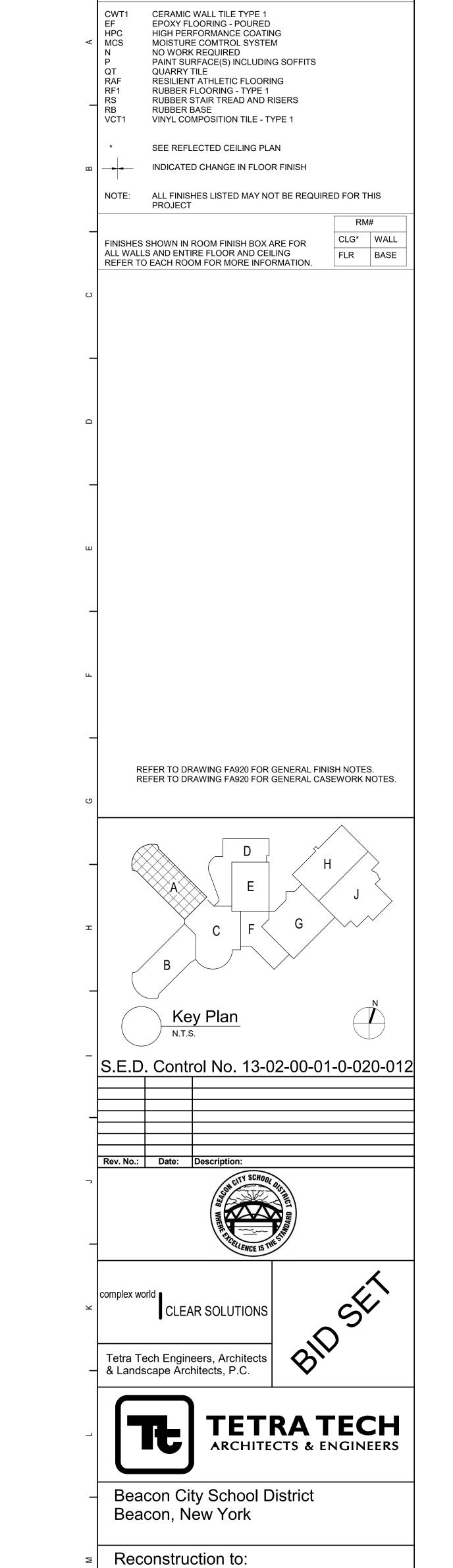












Beacon High School

Drawn By: TLG

Project No.:

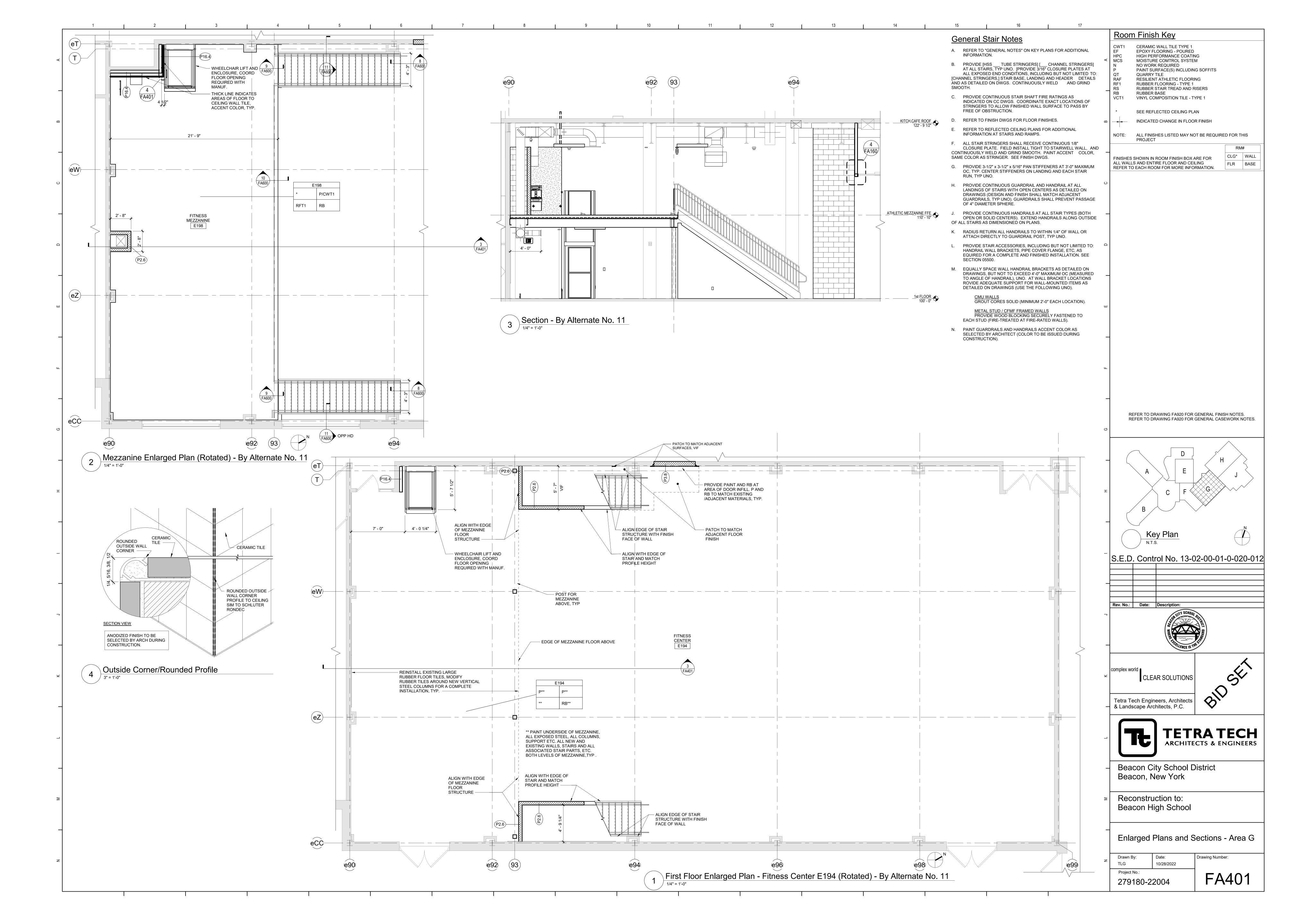
279180-22004

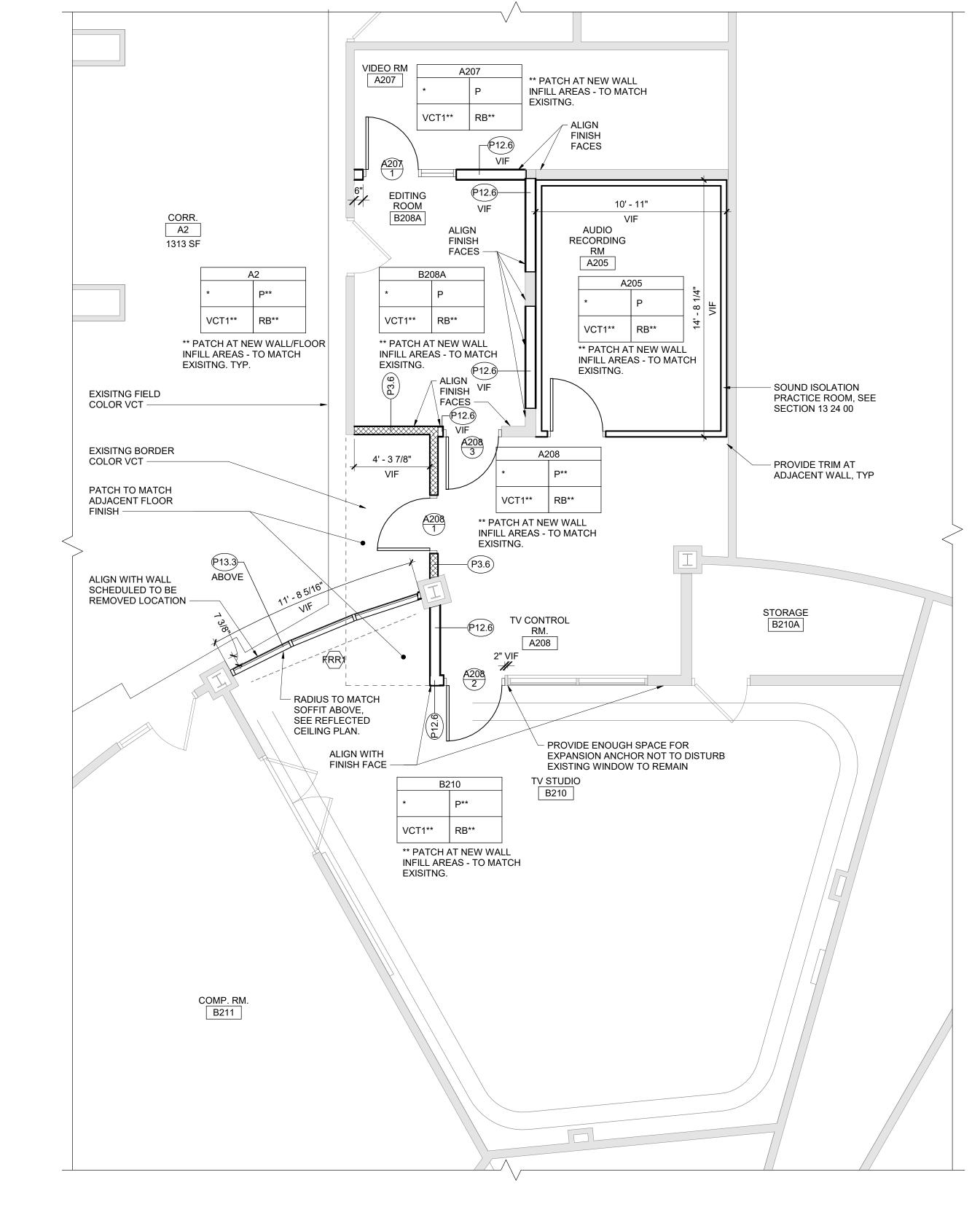
Enlarged Plans - Area A

Date: 10/28/2022 Drawing Number:

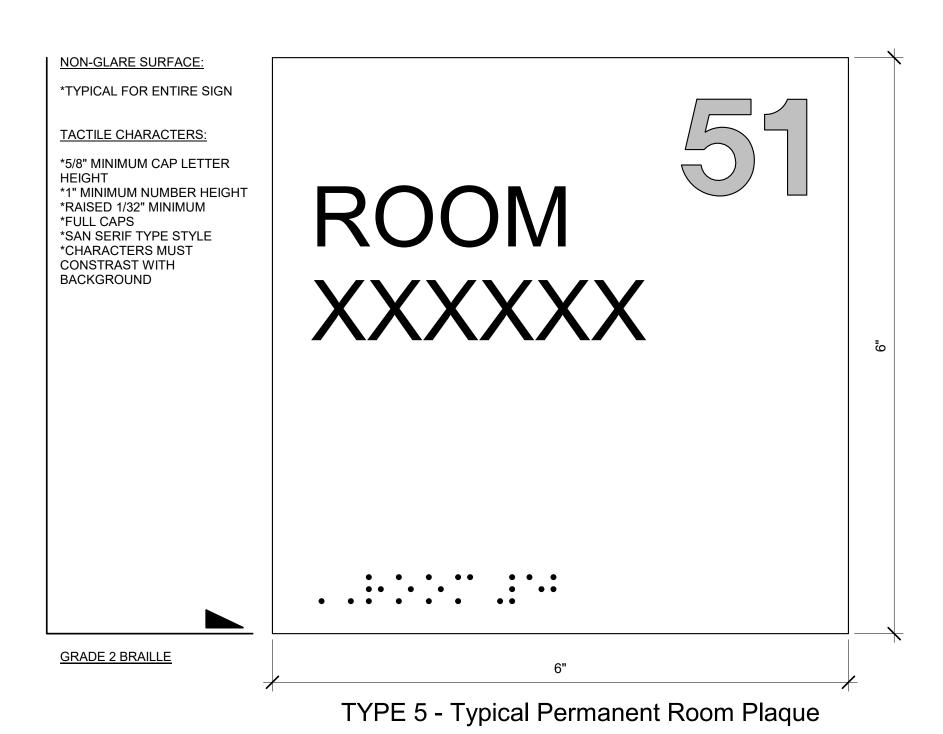
FA400

Room Finish Key



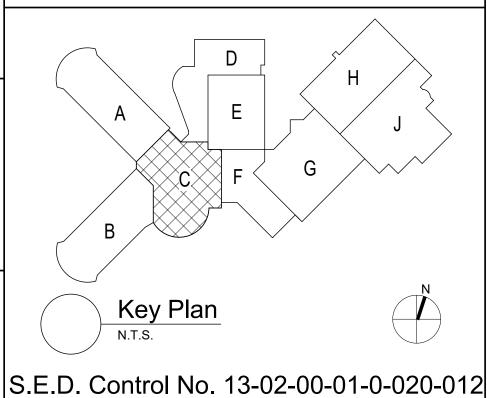


Second Floor Enlarged Plan - TV Studio- By Alternate No. 14



Room Finish Key CWT1 EF HPC ✓ MCS CERAMIC WALL TILE TYPE 1 EPOXY FLOORING - POURED HIGH PERFORMANCE COATING MOISTURE COMTROL SYSTEM NO WORK REQUIRED PAINT SURFACE(S) INCLUDING SOFFITS QT RAF RF1 RS QUARRY TILE RESILIENT ATHLETIC FLOORING RUBBER FLOORING - TYPE 1 RUBBER STAIR TREAD AND RISERS RUBBER BASE VCT1 VINYL COMPOSITION TILE - TYPE 1 SEE REFLECTED CEILING PLAN INDICATED CHANGE IN FLOOR FINISH NOTE: ALL FINISHES LISTED MAY NOT BE REQUIRED FOR THIS PROJECT RM# FINISHES SHOWN IN ROOM FINISH BOX ARE FOR FLR BASE ALL WALLS AND ENTIRE FLOOR AND CEILING REFER TO EACH ROOM FOR MORE INFORMATION.

REFER TO DRAWING FA920 FOR GENERAL FINISH NOTES. FES. REFER TO DRAWING FA920 FOR GENERAL CASEWORK NOTES. FES.



Rev. No.: Date: Description:

CLEAR SOLUTIONS





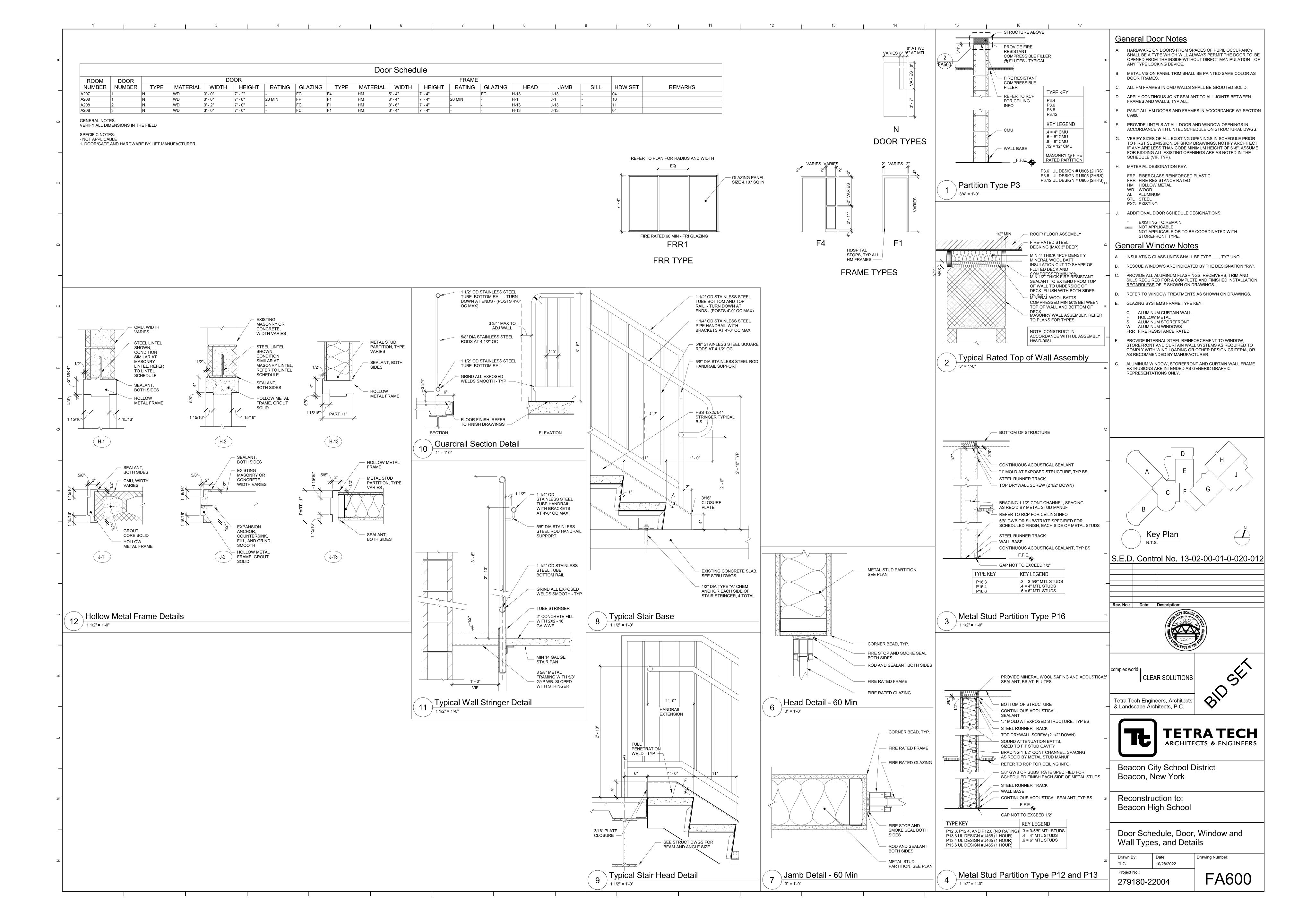
Beacon City School District Beacon, New York

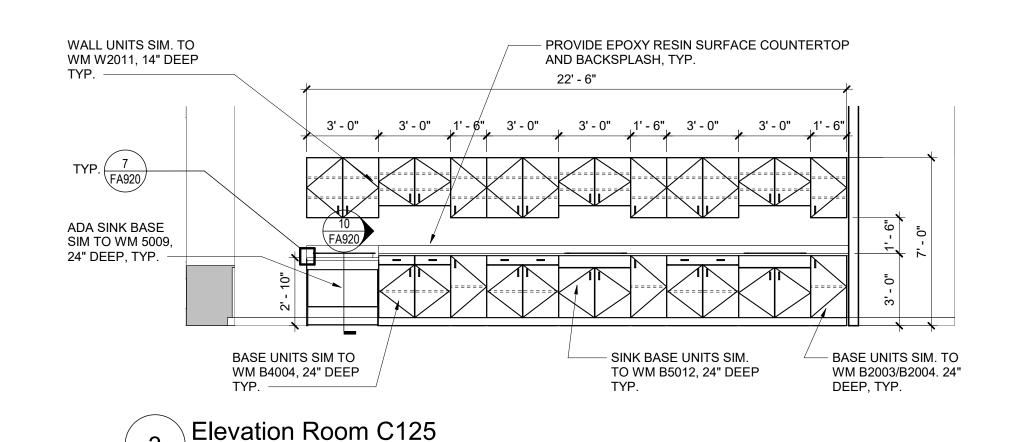
Reconstruction to: Beacon High School

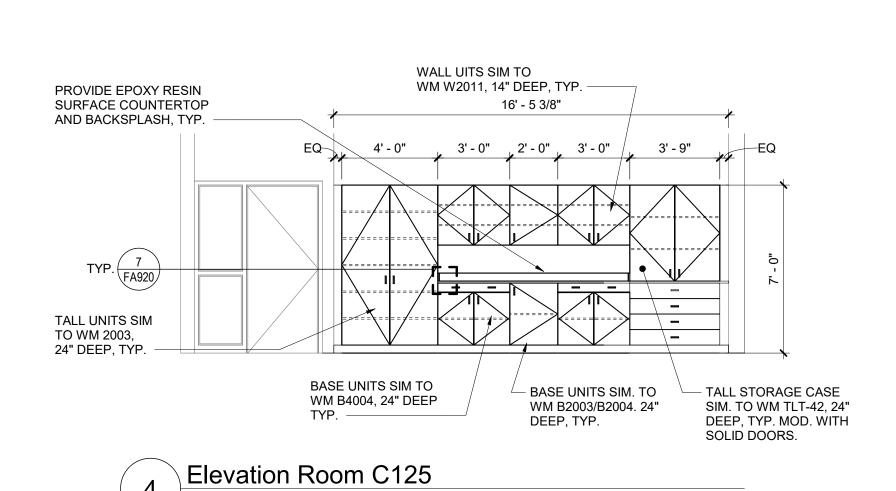
Enlarged Second Floor Plan Area C

Date: 10/28/2022 Drawing Number: Drawn By: TLG Project No.: 279180-22004

FA402







General Wood Casework Notes

FOR ALL CONTRACTOR RESPONSIBILITIES REFER TO SPECIFICATION SECTION 01 10 00/01 12 00.

MANUAL, SECTION 12 32 13 FOR DETAILED SPECIFICATIONS.

- A. THE CASEWORK SHOWN ON THE DRAWINGS IS BASED ON WOOD METAL WOOD CASEWORK. REFER TO THE PROJECT
- B. ALL STANDARD CASEWORK DIMENSIONS TO BE MODIFIED TO CORRESPOND WITH THE DIMENSIONS NOTED ON THE DRAWINGS. FIELD VERIFY ALL DIMENSIONS PRIOR TO FABRICATION OF CABINETS
- MODEL NUMBERS LISTED ON DRAWINGS APPLY TO ELEVATIONS SHOWN. PROVIDE OPPOSITE HAND MODELS WHERE SHOWN.
- D. PROVIDE FULL DEPTH SHELVES AT BASE, WALL AND TALL CABINETS, UNLESS NOTED OTHERWISE.
- BASE AND TALL CABINETS ARE 24 INCHES DEEP. U.N.O. WALL CABINETS ARE 14 INCHES DEEP, UNO BASE CABINET DEPTH DOES NOT INCLUDE 1" COUNTERTOP OVERHANG, TYP.
- PROVIDE FINISHED ENDS, BACK EXTENSIONS, SCRIBES AND FINISHED FILLER PANELS ON ALL CABINETS. FILLER PANELS ARE NOT TO EXCEED 3" WIDE, UNLESS NOTED OTHERWISE. PROVIDE TOP AND BOTTOM FILLER PANELS AT ALL BASE & WALL UNITS. SUBMIT SHOP DRAWINGS SHOWING DETAILS OF THESE CONDITIONS.
- G. ALL COUNTERTOPS TO BE EPOXY RESIN W/ MARINE EDGE UNLESS NOTED OTHERWISE. BACKSPLASHES TO BE 4" HIGH, TYP. DO NOT PROVIDE BACKSPLASHES AT UV WALL UNLESS NOTED OTHERWISE. PROVIDE CAULK AT ALL JOINTS PROVIDE MARINE EDGE AT LOUVER LOCATIONS, TYP.
- H. RADIUS COUNTERTOPS AT NON MARINE EDGE OF EPOXY COUNTERTOPS ENDS MEETING TALL SHELVING UNITS WITH A DEPTH LESS THAN COUNTERTOP DEPTH. RADIUS TO BE 1-1/2" UNLESS NOTED OTHERWISE. REFER TO DETAILS.
- PROVIDE COUNTERTOP CUT-OUTS FOR SINK, FAUCETS, AIR AND/OR GAS COCKS, COORDINATE WITH ALL REQUIRED
- CONTRACTORS. K. PROVIDE CUTS AT ALL CONDITIONS THAT INTERFERE WITH COUNTERTOPS/CABINETS: SCRIBE TO FIT.
- L. PROVIDE THE FOLLOWING AT EACH SCIENCE ROOM: - FIRE BLANKET WITH STEEL CABINET -FIRST AID KIT WITH WALL KIT REFER TO SPEC SECTION FOR MORE INFORMATION. N. ALL SINKS AND ACCESSORIES ARE AS PER SPECIFICATION SECTION 22 42 16.16 WITH THE EXCEPTION OF EPOXY RESIN
- SINKS. EPOXY RESIN SINK SIZES ARE AS FOLLOWS: (ID) TYPE "ER1"- 24 X 16 X 8 TYPE "ER2"- 24 X 16 X 4 ADA P. PROVIDE AT ALL UV SHELVING LOCATIONS-REMOVABLE BACKS
- IN CABINETS AT PLUMBING AND FIN TUBE VALVE LOCATIONS. VERIFY POSITIONS OF VALVES PRIOR TO SHOP FABRICATION OF

Q. PROVIDE SHOP DRAWINGS SHOWING LOCATIONS AND DETAILS

LOCATIONS ECT. ASSOCIATED WITH CASEWORK COORDINATE WITH ALL REQUIRED CONTRACTORS. R. PROVIDE CABINETS WITH FINISHED SIDES, INCLUDING BUT NOT

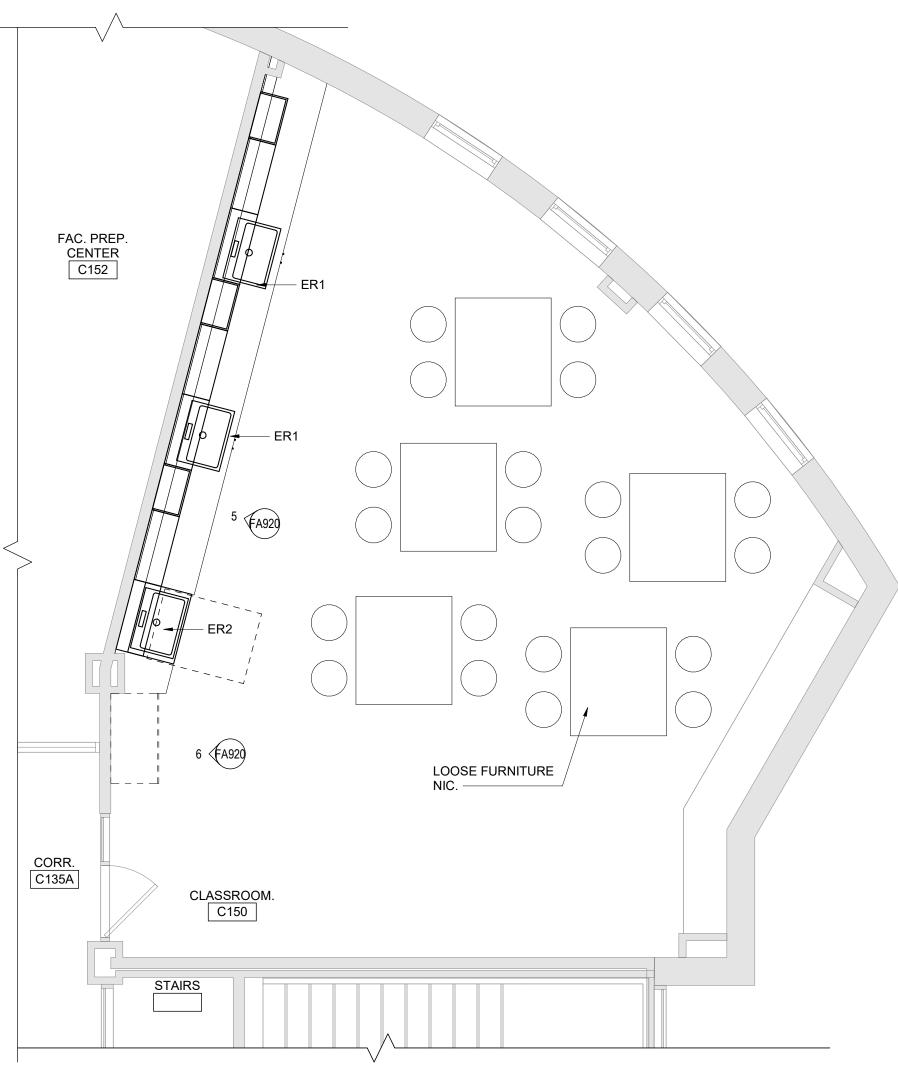
LIMITED TO, LOCATIONS OF ADJACENT CABINETS OR EQUIPMENT

FOR ALL GRILLES, LOUVERS, REMOVABLE PANELS, VALVE

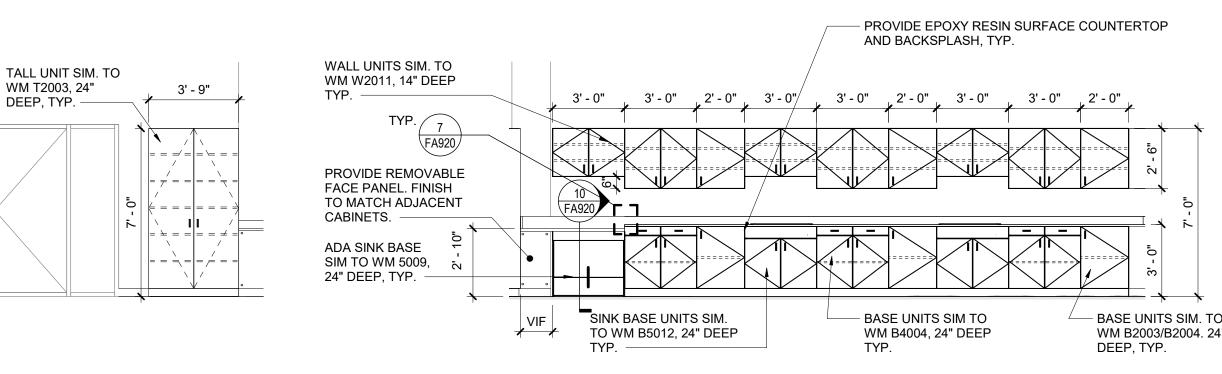
- WITH A DEPTH LESS THAN CABINET OR EQUIPMENT. PROVIDE ALL STANDARD FEATURES OF CASEWORK UNITS AS INDICATED BY MODEL NUMBER OR AS SHOWN ON PLANS, DETAILS AND ELEVATIONS, INCLUDED BUT NOT LIMITED TO:
- T. PROVIDE BLOCKING AT NEW AND EXISTING GYPSUM BOARD WALLS PER MANUFACTURER RECOMMENDATIONS FOR SUPPORT OF WALL /TALL MOUNTED UNITS. REFER TO SPECIFICATION SECTION 06 10 00 FOR WOOD BLOCKING RESPONSIBILITIES.

OUTLETS, SWITCHES, LIGHTS ETC.

- U. PROVIDE LOCKS AT ALL CASEWORK DOORS/DRAWERS AND FILE
- W. PROVIDE ALL CUTOUTS AS SHOWN ON CASEWORK PLANS AND ELEVATIONS OR AS REQUIRED. CUTOUTS ARE TO INCLUDE BUT NOT LIMITED TO: ALL ELEC BOXES, OUTLETS, AND ASSOCIATED WIRING AND FINAL HOOK-UP.
- X. PROVIDE REMOVABLE BACK PANELS AT ALL SINK BASE
- Y. REFER TO BOTH 1/8" AND 1/4" PLANS FOR LAYOUTS.



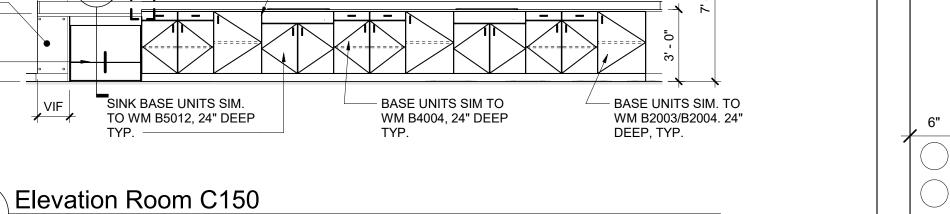
Enlarged Plan - Classroom C150 (Rotated)- By Alternate No. 12 1/4" = 1'-0" BY ALTERNATE NO. 12



Elevation Room C150

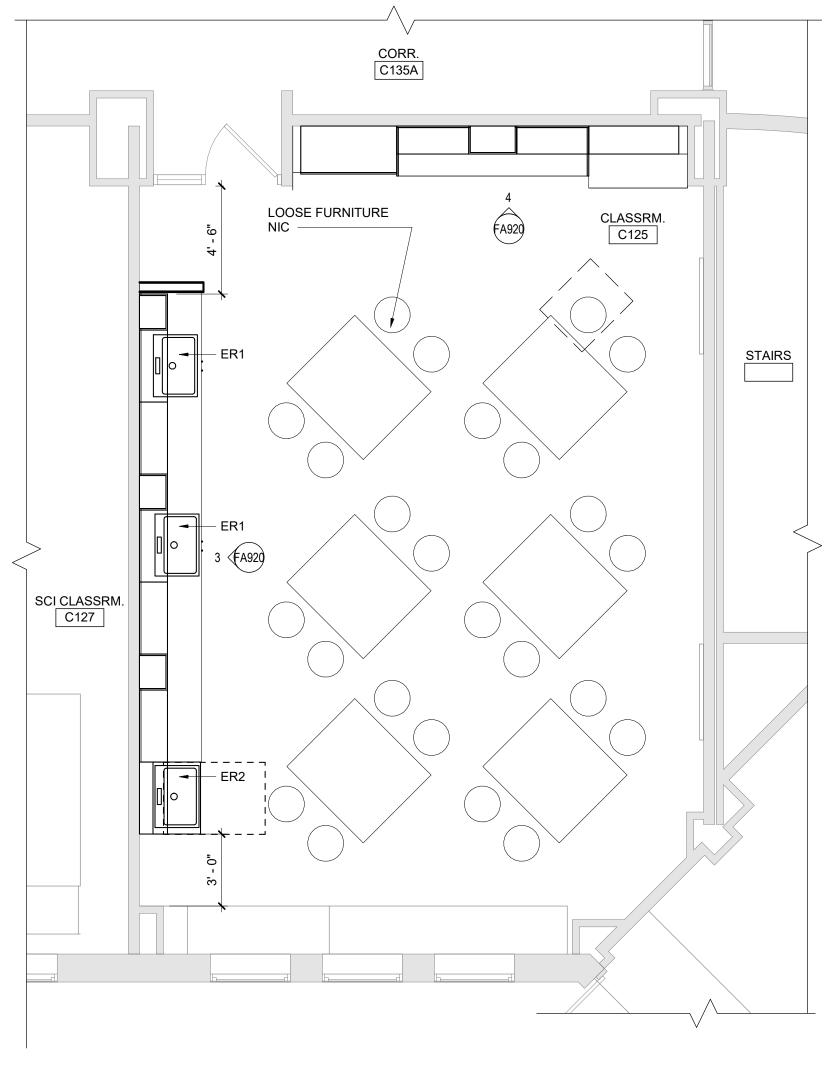
WM T2003, 24"

DEEP, TYP. —

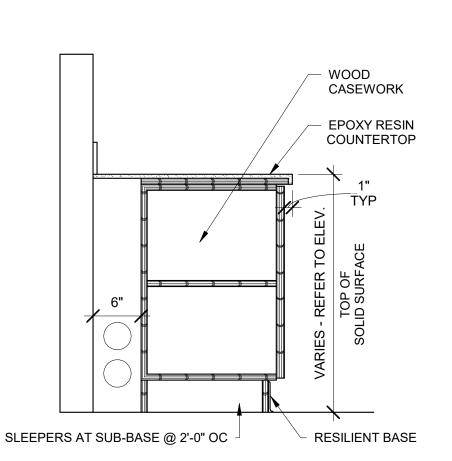


PROVIDE CLEAR MILDEW RESISTANT. WATERTIGHT SILICON SEALANT, MIN ASTM C-920 CLASS 25 - WALL/CABINET OR OUTSIDE CORNER **EPOXY** BACKSPLASH TYP ALL SIDES BACKSPLASH COUNTERTOP **AXONOMETRIC VIEW** ALIGN END OF PROVIDE SEALANT AT ALL SIDES/BACKSPLASH === BACKSPLASH W/ FACE OF AND BACKSPLASH/WALL LOCATIONS TYP. ALL COUNTERTOPS, ALL LOCATIONS, ALONG WALL OR CABINET ALL WALLS, NOTE: COUNTERTOPS WITHOUT - CLASSIC BEVEL BACKSPLASHES ARE TO BE PROVIDED WITH W/ RADIUS SEALANT WALL/COUNTER LOCATIONS, TYP.

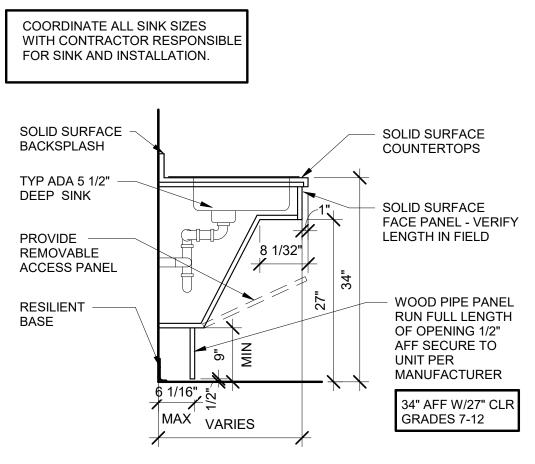
Epoxy Countertop Edge Detail
3" = 1'-0"



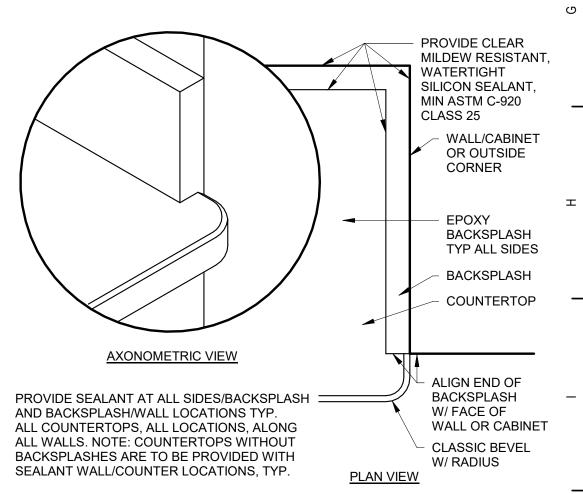
Enlarged Plan - Classroom C125 (Rotated)- By Alternate No. 13



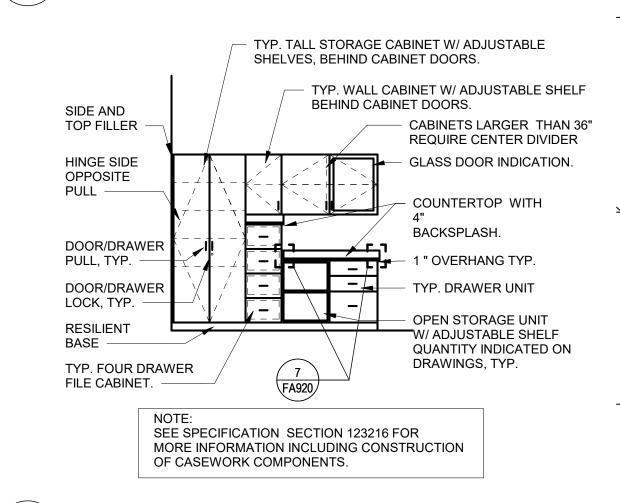
Typical Casework Designations



10 ADA Sink Base - Double Sink



Epoxy Countertop Non Marine Edge Detail



9 Typical Casework Designations

General Finish Notes

ALL FINISH PRODUCTS ARE TO BE INSTALLED IN ACCORDANCE WITH CONTRACT SPECIFICATION AND MANUFACTURES INSTRUCTIONS. REFER TO SPECIFICATIONS AND FINISH DETAILS FOR ADDITIONAL INFORMATION ON INSTALLATION OF SPECIFIED MATERIALS,

ALL PAINTS FOR INTERIOR AND EXTERIOR ARE TO BE APPLIED IN ACCORDANCE WITH SPECIFICATION SECTION 09 91 00 AND 09 96 00.

ALL EXPOSED STRUCTURES. INCLUDING BUT NOT LIMITED TO PIPING AND FIREPROOFING, CONDUIT, AND ALL ASSOCIATED

EQUIPMENT ARE TO BE PAINTED.

APPLY PAINT TO BOTH NEW AND EXISTING ITEMS IN ALL AREAS INDICATED WITH A FINISH BOX AND/OR NOTES - THESE ITEMS ARE INCLUDING BUT ARE NOT LIMITED TO: - BEAMS, DOOR/FRAMES - BOTH SIDES GLAZING FRAMES IN DOOR/WALLS- BOTH SIDES, ALL EXPOSED STAIR PARTS INCLUDING RAILINGS, HAND AND GUARD RAILS, STRINGERS AND UNDERSIDES

OF STAIRS, ALL ITEMS ARE TO BE ACCENT COLORS.

PATTERNS FOR FLOORS AND WALLS ARE ISSUED DURING THE CONSTRUCTION PHASE-PROVIDE SHOP DRAWINGS INCLUDING ALL ACCENT LOCATIONS. SUBMIT SHOP DRAWINGS SHOWING DETAILED LAYOUTS OF EACH AREA, INCLUDING EDGES AND TRANSITIONS, ALL LAYOUTS ARE TO BE CENTERED IN EACH ROOM UNO - TYP ALL DRAWINGS. ABOVE REQUIREMENTS ARE TO INCLUDE BUT NOT LIMITED TO:

FIELD AND ACCENT PAINT ARE ISSUED DURING THE CONSTRUCTION PHASE, CONTRACTOR IS TO ASSUME ALL FIELD AND ACCENT COLORS ARE DIFFERENT ROOM TO ROOM. AS WELL AS WITHIN EACH ROOM, REQUIREMENTS ARE TO INCLUDE BUT ARE NOT LIMITED TO:

- WALL, FIELD COLOR - WALL, ACCENT COLOR - CEILING CLOUDS, ACCENT COLOR

- RUBBER

- SOFFITS, ACCENT COLOR - DOOR AND WINDOW FRAMES, ACCENT COLOR - EXPOSED COLUMNS, ACCENT COLOR - GUARDRAILS, ACCENT COLOR - HANDRAILS, ACCENT COLOR - EXPOSED DECKS, ACCENT COLOR - EXPOSED JOISTS, ACCENT COLOR

- EXPOSED DUCTWORK, ACCENT COLOR

CONFIRM WITH OWNER AND ARCHITECT PRIOR TO PAINTING OVER MURALS ON EXISTING SURFACES.

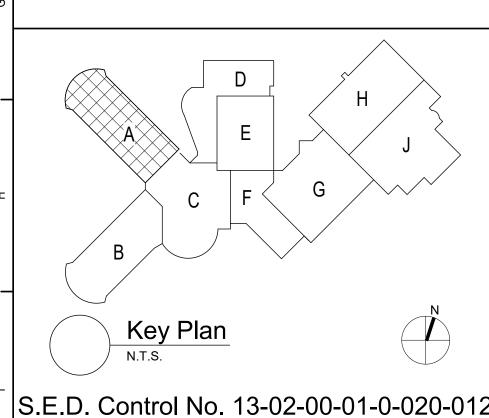
REFER TO STRUCTURAL DRAWINGS FOR LOCATIONS OF SLAB DEPRESSIONS. REFER TO FINISH MATERIAL SPECIFICATION SECTIONS FOR SLAB DEPRESSION DEPTH REQUIREMENTS. FOR ALL RENOVATED AREAS REQUIRING FINISH WORK REMOVE, PROTECT AND REINSTALL MOVABLE EQUIPMENT INCLUDING BUT NOT LIMITED TO: BOARD UNITS, LOCKERS GYM EQUIPMENT, SHADES/BLINDS, BOOKCASES ETC. REINSTALL IN ORIGINAL LOCATION, OR AS NOTED ON DRAWINGS, COORDINATE WITH

PROJECT PROCEDURES FOR MORE INFORMATION. INSTALLER IS TO FIELD VERIFY ALL EXG AND NEW FLOOR DRAIN LOCATIONS IN ALL EXG AND NEW SLABS AS PART OF THIS * REFER TO ARCHITECTURAL DRAWINGS FOR FLOOR DEMO AREAS AND REQUIREMENTS. * REFER TO PLUMBING DRAWINGS FOR EXG AND NEW FLOOR DRAIN LOCATIONS. * REFER TO STRUCTURAL DRAWINGS FOR LOCATIONS OF SLAB DEPRESSIONS. * REFER TO FINISH DRAWINGS FOR LOCATIONS OF NEW FLOOR FINISH MATERIALS AND FLOORING SLOPE. * REFER TO FINISH MATERIAL SPECIFICATION SECTIONS FOR

OWNER. REFER TO SPEC SECTION O1 23 00 ALTERATION

PROVIDE ALL FINISHES AS INDICATED BY ROOM FINISH BOX AND/OR AS NOTED ON DRAWINGS.

SLAB DEPRESSION DEPTH REQUIREMENTS.



Rev. No.: Date: Description:



Tetra Tech Engineers, Architects & Landscape Architects, P.C.



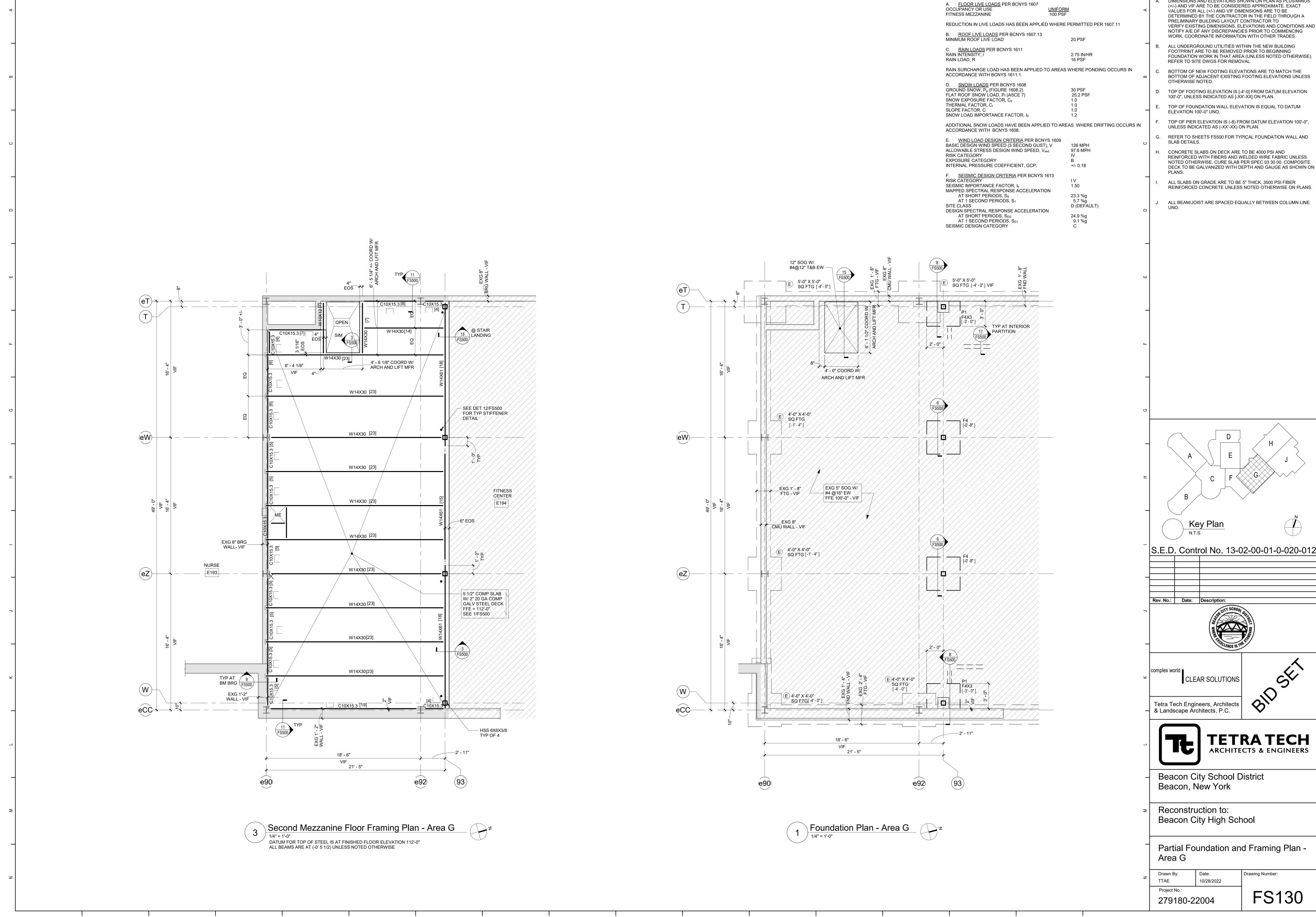
Beacon City School District Beacon, New York

Reconstruction to: Beacon High School

Enlarged Plans and Elevations

Drawing Number: Drawn By: MHH 10/28/2022 Project No.:

FA920 279180-22004



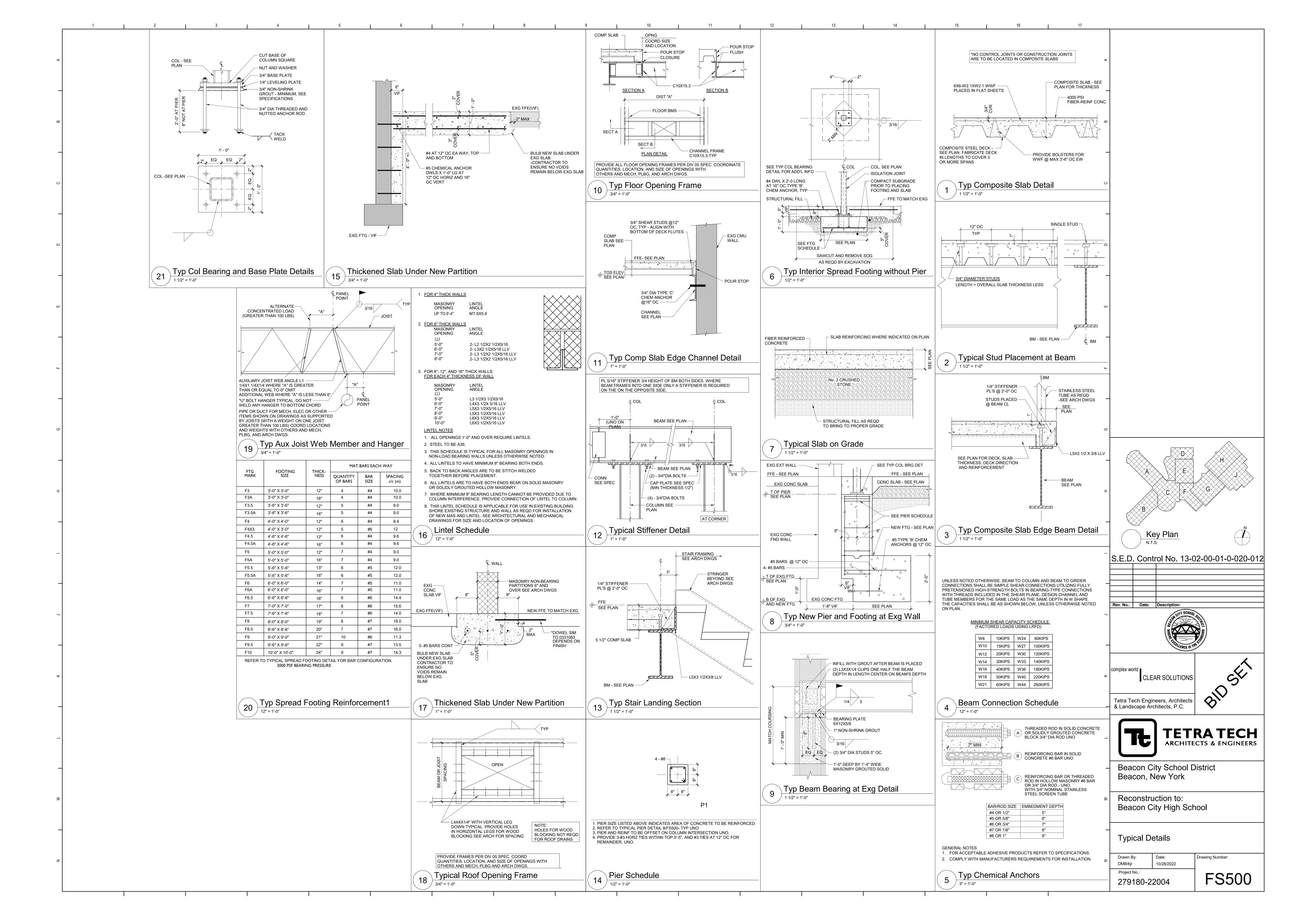
General Notes:

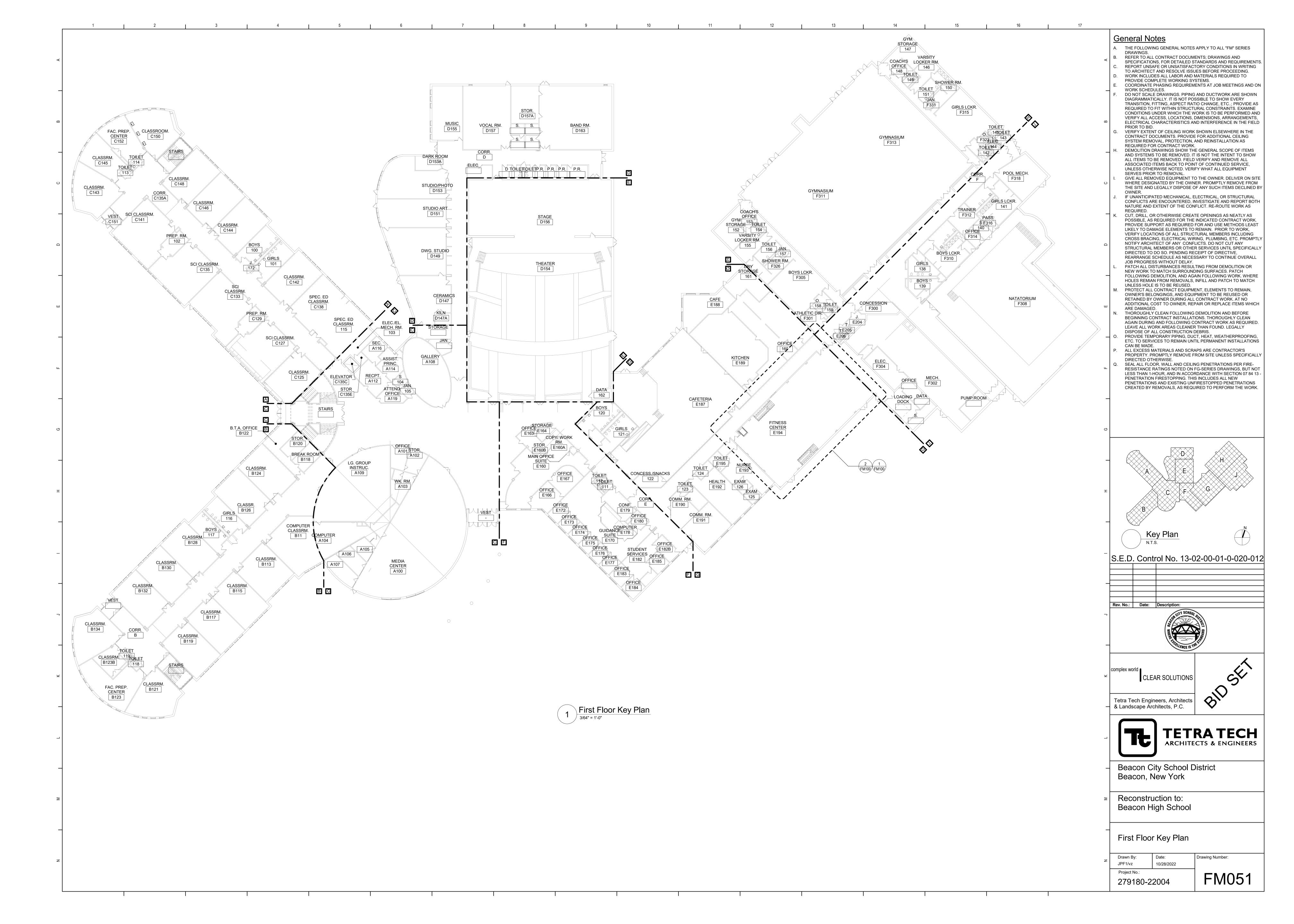
Structural Loads

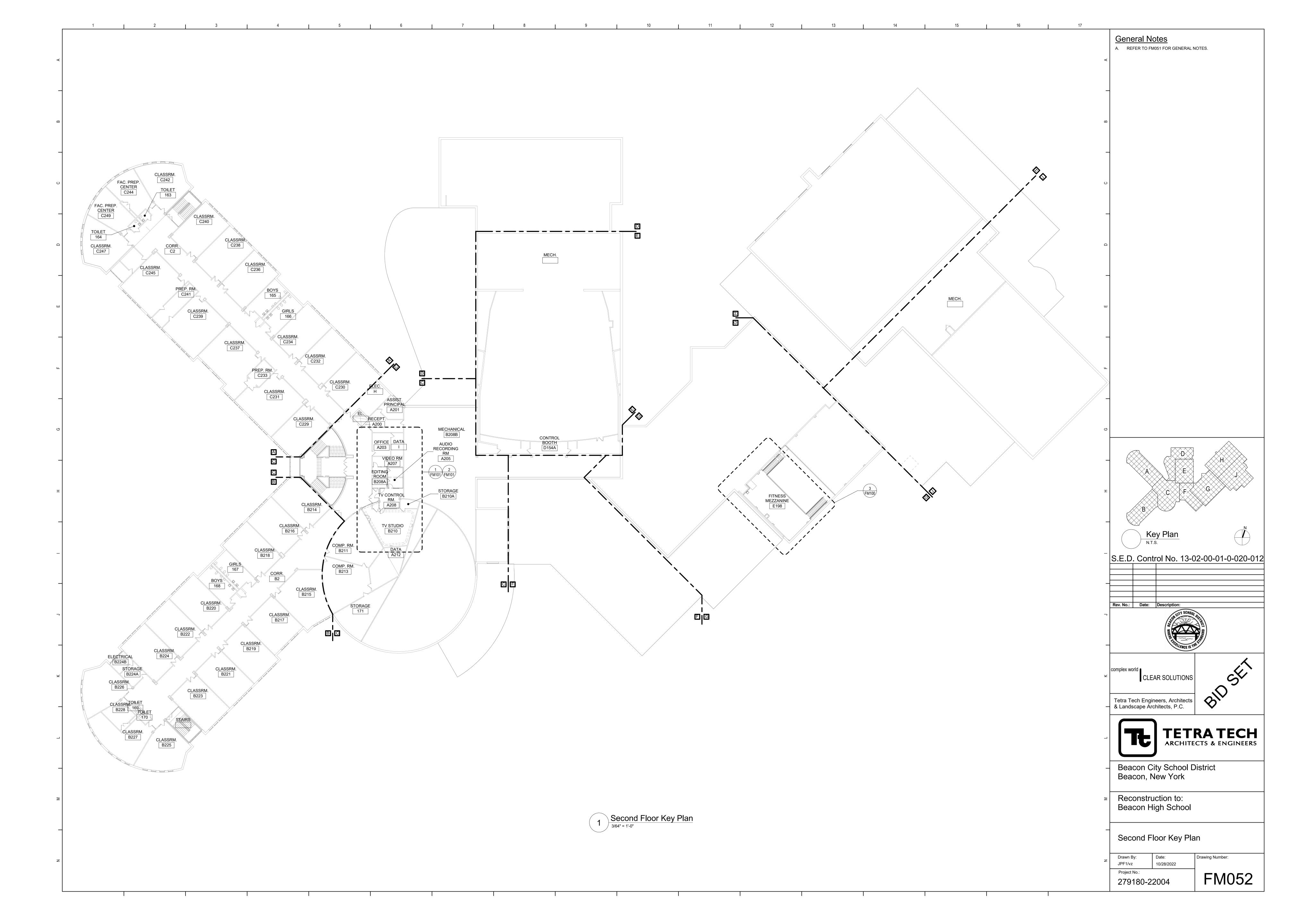
DIMENSIONS AND ELEVATIONS SHOWN ON PLAN AS PLUS/MINUS (+/-) AND VIF ARE TO BE CONSIDERED APPROXIMATE. EXACT DETERMINED BY THE CONTRACTOR IN THE FIELD THROUGH A VERIFY EXISTING DIMENSIONS, ELEVATIONS AND CONDITIONS AND

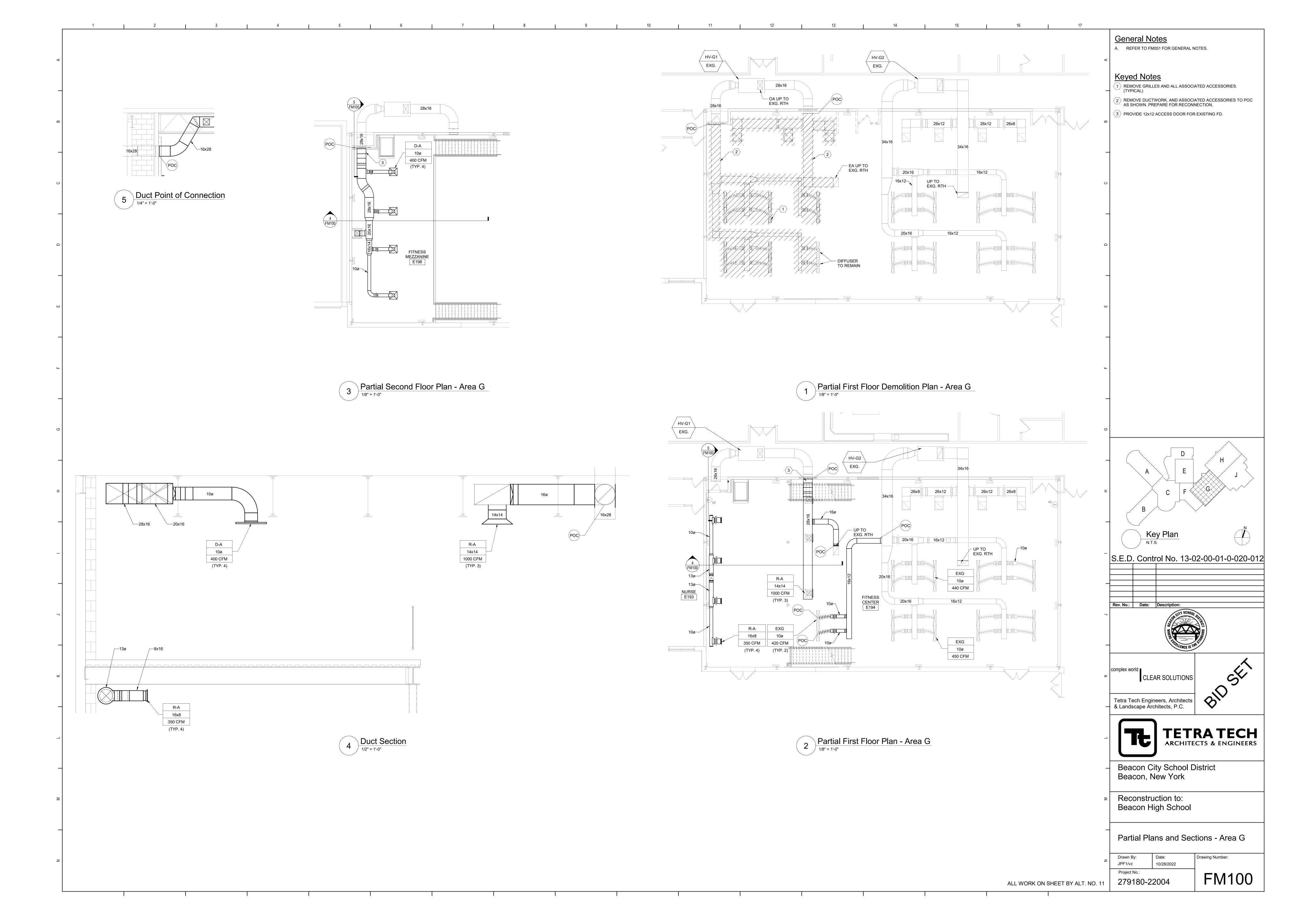
DECK TO BE GALVANIZED WITH DEPTH AND GAUGE AS SHOWN ON

REINFORCED CONCRETE UNLESS NOTED OTHERWISE ON PLANS.

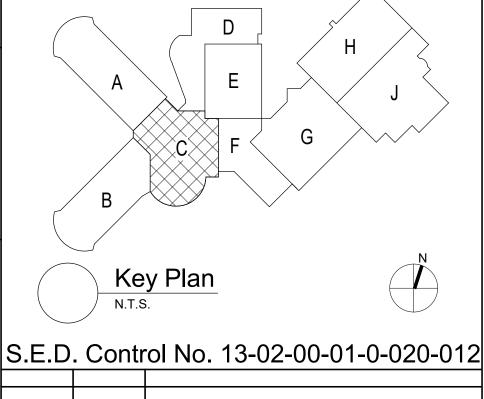


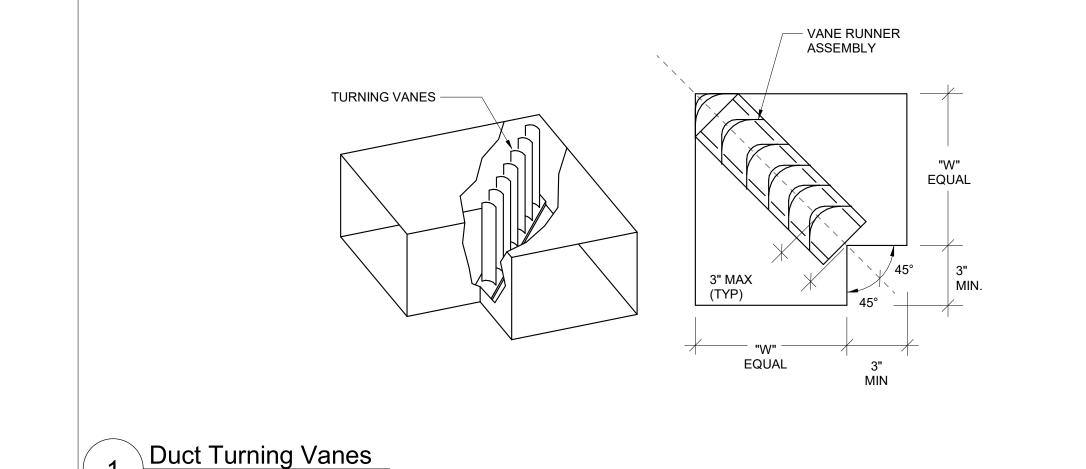




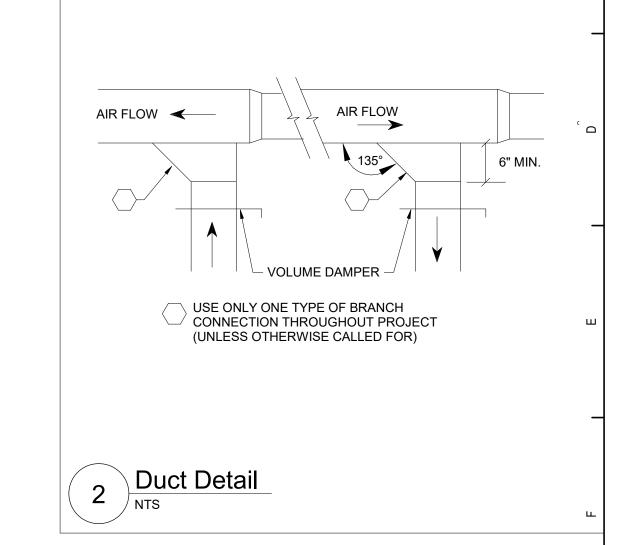








1 Duct Turning Vanes

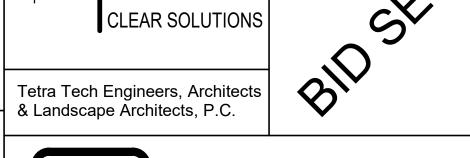


EQUIPMENT NUMBER	ZONE ID				MINIMUM VENTILATION RATES								
	ROOM NUMBER	ROOM NAME	OCCUPANCY CLASSIFICATION	Az - AREA (SF)	Pz - ZONE OCCU. #/1000 FT	ZONE OCCU.	Rp (CFM/ Person)	RpP	Ra (CFM/SF)	RaA	Vbz (CFM)	EZ	Voz (CFM)
Existing HV-G1	E194	FITNESS CENTER	Health club/weight rooms	1545	10	16	20	320	0.06	93	413	0.8	515
Existing HV-G1	E198	MEZZANINE	Health club/weight rooms	1031	10	11	20	220	0.06	62	282	0.8	350
Existing HV-G2	E196	WRESTLING / ADAP. P.E.	Health club/weight rooms	2696	10	27	20	540	0.06	162	702	0.8	875
Existing ACU-C4	A205	AUDIO RECORDING RM	Office space	144	5	1	5	5	0.06	9	14	0.8	15
Existing ACU-C4	A207	VIDEO RM	Office space	147	5	1	5	5	0.06	9	14	0.8	15
Existing ACU-C4	A208A	EDITING ROOM	Office space	141	5	1	5	5	0.06	8	13	0.8	15

 $\mathsf{Rp} = \mathsf{PEOPLE}$ OUTDOOR AIR RATE, $\mathsf{Ra} = \mathsf{AREA}$ OUTDOOR AIR RATE, $\mathsf{Vbz} = \mathsf{BREATHING}$ ZONE OUTDOOR AIRFLOW, Ez = AIR DISTRIBUTION CONFIGURATION, Voz = ZONE OUTDOOR AIRFLOW

S.E.D. Control No. 13-02-00-01-0-020-012

Rev. No.: Date: Description:





Beacon City School District Beacon, New York

Reconstruction to: Beacon High School

Details and Schedule

Drawn By: JPF1/vz Date: 10/28/2022 Drawing Number: Project No.: FM500 279180-22004

