Reconstruction To:

JV Forrestal Elementary School	SED Control No. 13-02-00-01-0-002-021
Sargent Elementary School	SED Control No. 13-02-00-01-0-008-020
South Ave Elementary School	SED Control No. 13-02-00-01-0-003-016
Rombout Middle School	SED Control No. 13-02-00-01-0-004-023
Beacon High School	SED Control No. 13-02-00-01-0-020-012
Bus Maintenance Facility	SED Control No. 13-02-00-01-5-018-006

Addition and Alteration to:

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

Beacon City School District
Beacon, New York

Drawing List

Rombout Middle School

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- G100 Symbols and Abbreviations

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- EG351 Code Compliance First Floor Key Plan
- EG352 Code Compliance Second Floor Key Plan

HAZARDOUS MATERIALS
- EH100 Asbestos Abatement

SURVEY / MAPPING
- EV001 Topographic Survey

CIVIL
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- EC120 Site Layout and Landscape Plan
- EC130 Site Grading and Utility Plan
- EC500 Site Details
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- EA101 First Floor Demolition Plan - Area B and E
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Rombout Middle School

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- EM101 First Floor Demolition Plans - Area D and Partial Area F Roof Demolition Plan - Partial Area F
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Beacon City High School

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- FA161 First Floor Reflected Ceiling Plan Area G
- FA162 Second Floor Reflected Ceiling Plan Area C
- FA400 Enlarged Plans - Area A
- FA401 Enlarged Plans and Sections - Area G
- FA402 Enlarged Second Floor Plan Area C
- FA600 Door Schedule, Door, Window and Wall Types, and Details
- FA920 Enlarged Plans and Elevations

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MECHANICAL
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- FM052 Second Floor Key Plan
- FM100 Partial Plans and Sections - Area G
- FM101 Partial Second Floor Plans - Area C
- FM500 Details and Schedule

ELECTRICAL
- FE050 First Floor Key Plan
- FE051 Second Floor Key Plan
- FE400 First Floor Enlarged Plans
- FE401 First Floor Enlarged Plans
- FE402 Second Floor Enlarged Plans
- FE500 Details
- FE501 Details

PLUMBING
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- FP400 Enlarged Science Room Plans and Details
- FP401 Enlarged Area G Plans, Details and Schedules
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Common

CIVIL
- ZC500 Site Details
- ZC501 Site Details
- ZC502 Site Details
- ZC503 Site Details

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Author	10/28/2022	AA130
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BUILDING DESIGNATOR
DISCIPLINE DESIGNATOR
SHEET TYPE DESIGNATOR
SHEET SEQUENCE DESIGNATOR

TETRA TECH
ARCHITECTS & ENGINEERS
Architecture Engineering Planning for High Performance Facilities

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

Volume 2 of 2

BID SET

279180-22004
10/28/2022
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Set No.

Drawing Number:
G002

Site Symbols

+ 83.36	SPOT ELEVATION
+ 99.50 TC 99.00 BC	TOP OF CURB ELEVATION BOTTOM OF CURB ELEVATION
+ 83.36	EXISTING SPOT ELEVATION
136	CONTOUR
136	EXISTING CONTOUR
TB-1	SOIL TEST BORING
TP-1	TEST PIT LOCATION
	TREE OR SHRUB
	TREE OR SHRUB TO REMAIN
	TREE OR SHRUB TO BE REMOVED
	ASPHALT PAVING OR TOP COURSE
	HEAVY-DUTY ASPHALT PAVING
	REMOVE AND REPLACE ASPHALT PAVING
	CONCRETE PAVING
	CONCRETE SECTION
	CURBING
	CURBING TO REMAIN
	CURBING TO BE REMOVED
	FENCING
	FENCING TO REMAIN
	FENCING TO BE REMOVED
	SILT FENCING
	TEMPORARY CONSTRUCTION FENCING
	HAY BALES
	TEMPORARY TREE PROTECTION
	UTILITY POLE
	UTILITY POLE TO REMAIN
	UTILITY POLE TO BE REMOVED
	NEW OR RELOCATED FIRE HYDRANT
	FIRE HYDRANT TO REMAIN
	DROP INLET
	CATCH BASIN
	STORM/SANITARY MANHOLE
	DROP INLET TO REMAIN
	MANHOLE/CATCH BASIN/DRYWELL TO REMAIN
	DRYWELL W/ GRATE
	DRYWELL W/ SOLID COVER TO GRADE
	DRYWELL W/ COVER BURIED
ST	STORM LINE WITH HEADWALL
ST	STORM LINE WITH ENDWALL
ST	STORM LINE WITH END SECTION
ST	STORM PIPE
ST	STORM PIPE TO REMAIN
ST	STORM PIPE TO BE REMOVED/ABANDONED
UD	UNDERDRAIN
UD	UNDERDRAIN TO REMAIN
UD	UNDERDRAIN TO BE REMOVED/ABANDONED
SAN	SANITARY LINE
SAN	SANITARY LINE TO REMAIN
SAN	SANITARY LINE TO BE REMOVED/ABANDONED
G	GAS LINE
G	GAS LINE TO REMAIN
G	GAS LINE TO BE REMOVED/ABANDONED
W	WATER LINE
W	WATER LINE TO REMAIN
W	WATER LINE TO BE REMOVED/ABANDONED
CO	STORM/SANITARY CLEANOUT
	GATE VALVE
	SIGN POST
	UNIVERSAL HANDICAP SYMBOL
	REMOVAL
	RIP-RAP

Architectural Symbols

	EXISTING TO REMAIN
	DEMOLITION WORK
	NEW WORK IN EXISTING (MATERIAL INDICATION VARIES)
	NEW WORK (MATERIAL INDICATION VARIES)
	CMU AND BRICK CAVITY WALL
	CMU WALL
	GYPSUM BOARD PARTITION W/ METAL STUD WALL
	OPERABLE PARTITION
100 1	DOOR NUMBER (ROOM NO W/ DOOR NO)
A	WINDOW TYPE
126	RELOCATED EQUIPMENT FURNITURE OR CASEWORK NUMBER
P3.8	PARTITION TYPE
MGM	BOARD UNIT SYMBOL
	FINISH CHANGE

ROOF SYMBOLS

	AREA OF TAPERED INSULATION
	EXISTING ROOF DRAIN WITH RETROFIT ROOF DRAIN INSERT IN NEW FACTORY-TAPERED SUMP
	EJ/CONTROL JOINT
TAPERED 1/4"/FT	DIRECTION OF DOWNWARD SLOPE AND DEGREE OF SLOPE OF TAPERED INSULATION (MINIMUM 1/8"/FT, TYP UNO)
OR	DIRECTION OF DOWNWARD SLOPE OF TAPERED INSULATION CRICKET (MINIMUM 1/4"/FT, TYP UNO)
SLOPE STRU	DIRECTION OF DOWNWARD SLOPE OF ROLLED OR SLOPED STRUCTURE
+X"	TOTAL THICKNESS OF INSULATION
+X" FLAT	TOTAL THICKNESS OF AREA OF FLAT INSULATION
RS-X	DESIGNATES ROOF SYSTEM TYPE
	WALKWAY PAD
S L	SKYLIGHT (REINSTALLED OR REPLACED)
	SMOKE VENT OR ROOF HATCH
● OR ○	PIPE PENETRATION
OR	ROOFTOP HOOD ON CURB, TYP
	ROOFTOP EQUIPMENT ON CURB, TYP (SHAPE AND SIZE VARY)

REFLECTED CEILING SYMBOLS

A 0'-0"	BOTTOM OF CEILING AFF CEILING MATERIAL
	CEILING HUNG UNIT VENTILATOR OR CEILING HUNG FAN COIL UNIT
	CEILING RETURN/EXHAUST GRILLE
	CEILING SUPPLY DIFFUSER/GRILLE
	EXIT LIGHT
	2 X 4 FIXTURE IN 2 X 2 PATTERN

Structural Symbols

INDICATES AREA IS EXISTING

INDICATES SLAB IS DEPRESSED OR RECESSED

TOP OF FTG ELEVATION FROM DATUM

CONTINUOUS FTG

FOUNDATION WALL

BM POCKET ELEVATION FROM DATUM

STEPPED FOOTING

INDICATES PIER TYPE

TOP OF PIER ELEVATION FROM DATUM

TOP OF FOOTING ELEVATION FROM DATUM

INDICATES FOOTING TYPE REFER TO FOOTING SCHEDULE

INDICATES A FRAMED ROOF OR FLOOR OPNG COORD SIZE AND LOCATION

INDICATES FRAMED OPNG IS FOR:
RD = ROOF DRAIN
ME = MECH EQUIP
SL = SKYLIGHT
SH = SMOKE HATCH
AH = ACCESS HATCH

ELEVATION FROM DRAWING DATUM

BEAM SIZE

NUMBER OF SHEAR STUDS OVER FULL LENGTH OF BEAM

INDICATES TOP OF BEAM AT ADJ GIRDER ELEV

END REACTION- KIPS

DEFLECTION (INCHES) APPROX W/ WET CONC

LINTEL DESIGNATION SEE SCHEDULE

INDICATES LINTEL CONNECTION TO COLUMN

INDICATES MEMBER IS EXISTING

INDICATES BEAM SPLICE

INDICATES MOMENT CONNECTION

OVER COLUMN

INDICATES SHEAR WALL CONNECTION TO BEAM

INDICATES BM TO HAVE TOP OF WALL CLIPS

JOIST DESIGNATION

INDICATES BEAM FRAMES HORIZONTAL BRIDGING

JOIST

DIAGONAL BRIDGING

MASONRY LOAD BEARING WALL

SHEAR WALL SEE SCHEDULE

CFMF BEARING WALL

FIREWALL

WALL TYPE

Mechanical Symbols

TAG NO. VALUE	EQUIPMENT TAG (NON-MOTORIZED) CFM, GPM, CAPACITY
TAG NO. VALUE	EQUIPMENT TAG (MOTORIZED)
TAG NO. NECK SZ. CFM	REGISTER, GRILLE, DIFFUSER
FTR-TYPE ENC. LENGTH ELEM. LENGTH GPM	FIN TUBE RADIATION ENCLOSURE NOTED AS: W/W: WALL TO WALL, W/U: WALL TO UNIT, W/D: WALL TO DOOR, ETC...
	SUPPLY DUCT - POSITIVE PRESSURE
	RETURN DUCT - NEGATIVE PRESSURE
	EXHAUST DUCT - NEGATIVE PRESSURE
8x8	DUCTWORK, FIRST VALUE IS SIZE OF SIDE IN VIEW
	DUCT TRANSITION
	DUCT OFFSET
	RECTANGULAR ELBOW W/TURNING VANES
	RECTANGULAR ELBOW
	ROUND DUCTWORK W/ MITERED ELBOW
	RADIUS ELBOW W/ TURNING/SPLITTER VANES
	RADIUS ELBOW
	STANDARD BRANCH DUCT W/VOLUME DAMPER
	ACOUSTICALLY LINED DUCTWORK
	ACOUSTICALLY LINED DUCTWORK (UP/DOWN)
OR	FLEXIBLE DUCT
	VOLUME DAMPER
FD	FIRE DAMPER
SD	SMOKE DAMPER
FSD	FIRE AND SMOKE DAMPER
AAD	AUTOMATIC AIR DAMPER
BDD	BACKDRAFT DAMPER
	EXISTING DUCTWORK
	AIR FLOW
	DUCT AIR FLOW
	EXISTING MECHANICAL EQUIPMENT TO BE REMOVED
	EXISTING MECHANICAL EQUIPMENT
	MECHANICAL EQUIPMENT
	ACCESS CLEARANCE

ATV	ATMOSPHERIC VENT
BBD	BOILER BLOW DOWN
CWS	CHILLED WATER SUPPLY
CWR	CHILLED WATER RETURN
CGS	CHILLED GLYCOL SUPPLY
CGR	CHILLED GLYCOL RETURN
CD	CONDENSATE DRAIN
C	CONDENSER WATER SUPPLY
CR	CONDENSER WATER RETURN
GS	GLYCOL SUPPLY
GR	GLYCOL RETURN
HGS	HOT GLYCOL SUPPLY
HGR	HOT GLYCOL RETURN
HPWS	HEAT PUMP SUPPLY
HPWR	HEAT PUMP RETURN
HWS	HOT WATER SUPPLY
HWR	HOT WATER RETURN
HCS	HOT/CHILLED WATER SUPPLY
HCR	HOT/CHILLED WATER RETURN
LPS	LOW PRESSURE STEAM
LPC	LOW PRESSURE CONDENSATE
LPWC	LOW PRESSURE STEAM WET (FLOODED) CONDENSATE
MU	MECHANICAL EQUIPMENT MAKE-UP COLD WATER(NON-POTABLE)
RS	REFRIGERANT SUCTION
RL	REFRIGERANT LIQUID
HG	REFRIGERANT HOT GAS
PD	PUMP DISCHARGE
	REMOVE EXG. DUCT, PIPING, EQUIPMENT
EXG	EXISTING HVAC PIPE
	BOTTOM PIPE CONNECTION
	TOP PIPE CONNECTION
	PIPE ELBOW DOWN
	PIPE ELBOW UP
	PIPE DOWN WITH CLEANOUT AT BASE
	PIPE DOWN WITH SHUTOFF VALVE
	CAP OR PLUG
	UNION CONNECTION
	FLANGE CONNECTION
	PIPING REDUCER (CONCENTRIC)
	PIPING REDUCER (ECCENTRIC)
	PIPE ANCHOR
	PIPE GUIDE
	EXPANSION COMPENSATOR
	EXPANSION JOINT
	FLEX CONNECTOR
	TEMPERATURE OR PRESSURE PROBE WELL
	THERMOMETER
P	PRESSURE SWITCH
P	PRESSURE GAUGE
TP	TEMPERATURE/ PRESSURE GAUGE
V	MANUAL AIR VENT
AV	AUTOMATIC AIR VENT
SV	STEAM VENT
VB	VACUUM BREAKER
F	FLOW SWITCH
M	FLOW METER
	ORIFICE METER
	VENTURI FLOW METER
	WYE STRAINER
	WYE STRAINER WITH BLOW DOWN VALVE
	DIRECTION OF FLOW
	PIPE BREAK
M	WATER METER

	BASKET STRAINER
	DUPLEX BASKET STRAINER
A	AQUASTAT
D	PITCH PIPING (DOWN)
	AUTOMATIC FLOW CONTROL VALVE
	BACKFLOW PREVENTOR
B	BALANCING VALVE
	BALL VALVE
	EXISTING BALL VALVE
	BUTTERFLY VALVE
	CHECK VALVE
	2-WAY CONTROL MODULATING VALVE
	3-WAY CONTROL, MODULATING VALVE (INSTALL STEM VERTICAL)
	3-WAY CONTROL, THERMOSTATIC MIXING VALVE (SELF-CONTAINED)
S	SOLENOID (ELECTRIC) ON/OFF
M	MOTORIZED MODULATING VALVE
	FUSIBLE LINK VALVE
	GAS PRESSURE REGULATOR VALVE
	TRIPLE DUTY VALVE
	GATE VALVE
	GLOBE VALVE
	OS&Y GATE VALVE
	PLUG VALVE
	PRESSURE REDUCING VALVE
	PRESSURE RELIEF VALVE
	STEAM TRAP
T	THERMOSTATIC STEAM TRAP
FT	FLOAT AND THERMOSTATIC STEAM TRAP
B	BUCKET STEAM TRAP
	AIR SEPARATOR
	CIRCULATING PUMP
	WATER HAMMER ARRESTOR
	CLEANOUT PLUG
CODP	CLEANOUT DECK PLATE
F	FIRE RISER VALVE ASSEMBLY
BS	BURNER SHUT OFF
H	HUMIDISTAT
H S	HUMIDITY SENSOR
H SG	HUMIDITY SENSOR W/ GUARD
P S	PRESSURE SENSOR
P SG	PRESSURE SENSOR W/ GUARD
S	SWITCH
T	THERMOSTAT
T G	THERMOSTAT W/ GUARD
T S	TEMPERATURE SENSOR
CO2	CO2 SENSOR
POC	POINT OF CONNECTION
	FIRE DEPARTMENT CONNECTION

	CONNECTION TO EXISTING PIPING
	PLATE STRAINER
	HOSE BIBB
CA	COMPRESSED AIR
LV	LABORATORY VENT
LW	LABORATORY WASTE
LW	LABORATORY WASTE (BURIED)
V	VENT
SAN	SANITARY (ABOVE GRADE)
SAN	SANITARY (BURIED)
IW	INDIRECT WASTE
ST	STORM (ABOVE GRADE)
ST	STORM (BURIED)
SP	FIRE STANDPIPE
F	FIRE MAIN
SPRK	FIRE SPRINKLER
	EXISTING COLD WATER
	EXISTING HOT WATER
	EXG HOT WATER RETURN
110° HW	EXISTING 110° HOT WATER
140° HW	EXISTING 140° HOT WATER
180° HW	EXISTING 180° HOT WATER
	COLD WATER
	HOT WATER
	HOT WATER RETURN
110° HW	110° HOT WATER
140° HW	140° HOT WATER
180° HW	180° HOT WATER
TW	TEMPERED (HOT) WATER
RAW	RAW WATER
SW	SOFT WATER
DE	DEIONIZED WATER
DI	DISTILLED WATER
G	GAS
P	PROPANE
D	DIESEL FUEL
U	UNLEADED GASOLINE
FOS	EXG FUEL OIL SUPPLY
FOS	FUEL OIL SUPPLY
FOR	EXG FUEL OIL RETURN
FOR	FUEL OIL RETURN
FOV	EXG FUEL OIL VENT
FOV	FUEL OIL VENT
MU	MECHANICAL EQUIPMENT MAKE-UP COLD WATER (NON-POTABLE)
	EXISTING ROOF DRAIN
	ROOF DRAIN REPLACING EXG
	ROOF DRAIN
	SCUPPER ROOF DRAIN
	EXG PLUMBING FIXTURE TO BE REMOVED
	EXG PLUMBING FIXTURE
	PLUMBING FIXTURE
	FLOOR DRAINS
	FLOOR SINK
	WALL HYDRANT
	FIRE HOSE CABINET
	UPRIGHT SPRINKLER HEAD
	PENDANT SPRINKLER HEAD
	CONCEALED SPRINKLER HEAD
	RECESSED SPRINKLER HEAD
	SIDEWALL SPRINKLER HEAD

Electrical and Technology Symbols

#	LIGHT FIXTURE # DENOTES TYPE
#	LIGHT FIXTURE # DENOTES TYPE
	RETROFITTED LIGHT FIXTURE AS NOTED
#	COMBINATION EXIT/EMERGENCY LIGHT # DENOTES TYPE
#	EMERGENCY LIGHT W/BATTERY PACK # DENOTES TYPE
#	EMER. LIGHT/WALL MOUNT # DENOTES TYPE
	EMERGENCY FIXTURE # DENOTES TYPE
#	EMERGENCY FIXTURE # DENOTES TYPE
#	EXIT LIGHT- CEILING MOUNTED # DENOTES TYPE
#	EXIT LIGHT -WALL MOUNTED # DENOTES TYPE
DLS	DAYLIGHT SENSOR
AR #	AREA OF RESCUE LIGHT FIXTURE # DENOTES TYPE
#	POLE MOUNTED SITE LIGHT # DENOTES TYPE
$	LIGHT SWITCH (LINE VOLTAGE) K - KEY OPERATED 3 - 3 WAY 4 - 4 WAY
$	LOW VOLTAGE LIGHTING CONTROL
ESR	EMERGENCY SHUNT RELAY
OS	OCCUPANCY SENSOR
VS	VACANCY SENSOR
PC	PHOTO CELL
LC	LIGHTING CONTROL
F	FIRE ALARM MANUAL PULL STATION
F F	FIRE ALARM BELL- W/STROBE W/0 STROBE
F F	FIRE ALARM HORN- W/STROBE W/0 STROBE
S	SMOKE DETECTOR
B	BEAM SMOKE DETECTOR
S D	DUCT SMOKE DETECTOR
H	RATE OF RISE HEAT DETECTOR
H F	FIXED HEAT DETECTOR
S	FIRE ALARM STROBE LIGHT
DH	MAGNETIC DOOR HOLDER
A	FIRE ALARM / VOICE NOTIFICATION SPEAKER (WALL)
A	FIRE ALARM / VOICE NOTIFICATION SPEAKER (CEILING)
A	FIRE ALARM / VOICE NOTIFICATION SPEAKER STROBE (CEILING)
A	FIRE ALARM / VOICE NOTIFICATION SPEAKER STROBE (WALL)
A	FIRE ALARM / VOICE NOTIFICATION STROBE (WALL)
R	RELAY
RTS	REMOTE INDICATOR TEST SWITCH
FS	SPRINKLER FLOW SWITCH
TS	SPRINKLER TAMPER SWITCH
FAA	FIRE ALARM ANNUNCIATOR PANEL
FACP	FIRE ALARM CONTROL PANEL
FAGA	FIRE ALARM GRAPHIC ANNUNCIATOR
CS	CONTROL STATION- TYPE AS DESCRIBED ON DWGS.
HCL	HOUSE LIGHTING CONTROL STATION
DCR	DIMMER CONTROL OUTLET
AR	AREA OF RESCUE STATION
MJ	MICROPHONE JACK
SJ	SPEAKER JACK
P	HOUSE LIGHT PANIC STATION
AI	AUDITORIUM INTERCOM
S	COMBINATION CLOCK/SPEAKER
	CLOCK
	EXISTING TELEPHONE
	TELEPHONE OUTLET W - WALL MOUNT AT 54" AFF IC - INTERCOM SOUND SYSTEM HAND SET BLANK - WALL MOUNT AT 16" AFF
	INTERCOM CALL SWITCH
TV	TELEVISION OUTLET
AP	WIRELESS ACCESS POINT
CO	COMPUTER OUTLET
A/V	AUDIO/VIDEO OUTLET
	PROJECTOR MOUNTING TILE

	CABLE TRAY - LADDER TYPE
	CABLE TRAY - BASKET TYPE
SR	SURFACE RACEWAY TYPE AS DESCRIBED ON DWGS.
CI	COMMUNICATION INTERFACE OUTLET
S	CEILING MOUNT SPEAKER
S	WALL MOUNT SPEAKER
VC	VOLUME CONTROL
H	HORN SPEAKER
P	PROGRAM BELL
FB	FLOOR BOX
DR	DOOR RELEASE
SE	SECURITY ALARM HORN
SE	SECURITY SENSOR GB - GLASS BREAK MD - MOTION DETECTOR SD - SOUND DETECTOR
DC	SECURITY DOOR CONTACT
KP #	SECURITY SYSTEM KEYPAD # DENOTES DESIGNATION
#	SECURITY CAMERA # DENOTES DESIGNATION
REX	SECURITY REQUEST TO EXIT SENSOR
PS #	LOW-VOLTAGE POWER SUPPLY # DENOTES DESIGNATION
ELH	SECURITY ELECTRIC LOCKING HARDWARE
IC #	DOOR INTERCOM CALL STATION # DENOTES DESIGNATION
CR #	ACCESS CONTROL CARD READER # DENOTES DESIGNATION
ADA	ADA PUSH BUTTON
MON	SECURITY CCTV MONITOR
LB	SECURITY LOCKDOWN BUTTON
	EXISTING PANEL TO REMAIN
	EXISTING PANEL TO REPLACE
	NEW PANEL
SPD	SURGE PROTECTION DEVICE
	MOTOR
LABEL ###	NEW MOTOR ### = CIRCUIT NUMBER
PB	PULL BOX
J	JUNCTION BOX
H	HAND/HAIR DRYER
	SINGLE RECEPTACLE
	DUPLEX RECEPTACLE
	DOUBLE DUPLEX RECEPTACLE
	SPECIAL PURPOSE RECEPTACLE
	DUPLEX FLOOR RECEPTACLE
CR	CORD REEL
	TELE./DATA POWER POLE
	NON-FUSED DISCONNECT SWITCH
	FUSED DISCONNECT SWITCH
	MOTOR STARTER
	COMBINATION STARTER
C	CONTACTOR
CB	ENCLOSED CIRCUIT BREAKER
	EQUIPMENT CONNECTION
	EMERGENCY OFF BUTTON
T#	TRANSFORMER # DENOTES DESIGNATION REFER TO RISER DIAGRAM
P	UTILITY POLE
UT	UNDERGROUND TELEPHONE
T	OVERHEAD TELEPHONE
UTV	UNDERGROUND TELEVISION
TV	OVERHEAD TELEVISION
UL	UNDERGROUND LIGHTING
L	OVERHEAD LIGHTING
UE	UNDERGROUND ELECTRIC
E	OVERHEAD ELECTRIC
UC	UNDERGROUND COMPUTER
C	OVERHEAD COMPUTER

Symbol Tags

F	= REMOVE EXISTING
F E	= EXISTING TO REMAIN
F R	= REINSTALL EXISTING
F RL	= RELOCATE EXISTING
F RE	= REPLACE EXISTING

TYPICAL FOR ALL ELEC SYMBOLS

AC = ABOVE CEILING
AUX = AUXILLARY CONTACT
WP = WEATHERPROOF
WG = WIRE GUARD
A = ABOVE (CASEWORK)
B = BELOW (CASEWORK)
H = HORIZONTAL
TK = TOE KICK
TS = TEACHER STATION
USB = UNIVERSAL SERIAL BUS

Standard Symbols

STANDARD REFERENCE BUBBLE DETAIL NUMBER DRAWING NUMBER	
DRAWING TITLE & SCALE	
BUILDING SECTION	
CONTRACT LIMIT LINE	
ADA 5' TURNING RADIUS	ELEVATION CALL OUT
WALL SECTION	ELEVATION
INTERIOR ELEVATION	DETAIL
NORTH ARROW	ROOM NAME AND NUMBER
PROPERTY LINE	CUT LINE
COLUMN CENTER LINE	CENTER LINE
MATCH LINE	DRAWING REVISION NUMBER
EARTH	GRAVEL
SAND	CONCRETE
NEW ASPHALT PAVING OR TOP COURSE	NEW HEAVY-DUTY ASPHALT PAVING
REMOVE AND REPLACE ASPHALT PAVING	BRICK
CONCRETE MASONRY UNITS	STONE
FINISHED WOOD TRIM	PLYWOOD
INSULATION (LOOSE OR BATT)	ROUGH WOOD
STRUCTURAL GLAZED TILE	RIGID INSULATION
METAL, STEEL	TERRAZZO
ACOUSTICAL PANEL	CERAMIC TILE
RESILIENT FLOORING	GLASS (LARGE SCALE)
PLASTER, CEMENT, GROUT, GYPSUM WALL BOARD	

SED Control No. 13-02-00-01-0-002-021
SED Control No. 13-02-00-01-0-006-022
SED Control No. 13-02-00-01-0-008-020
SED Control No. 13-02-00-01-0-003-016
SED Control No. 13-02-00-01-0-004-023
SED Control No. 13-02-00-01-0-020-012
SED Control No. 13-02-00-01-5-018-006

Rev. No.:	Date:	Description:

NOTE: REFER TO FINISH PLANS FOR ROOM FINISH KEY AND ADDITIONAL ABBREVIATIONS AND TYPES

AAC	ASBESTOS ABATEMENT CONTRACTOR
AAD	AUTOMATIC AIR DAMPER
AB	ANCHOR BOLT, AIR BARRIER
AC	AIR CONDITIONING, ALTERNATING CURRENT
ACCMP	ASPHALT COATED CORR METAL PIPE
ACM	ASBESTOS CONTAINING MATERIAL
ACT	ACOUSTICAL CEILING TILE
ACU	AIR CONDITIONING UNIT
AD	AREA DRAIN
ADA	AMERICAN DISABILITIES ACT
ADD	ADDENDUM
ADDL	ADDITIONAL
ADDN	ADDITION
ADH	ADHESIVE
ADJ	ADJACENT
ADR	ACCESS DOOR
AESS	ARCH EXPOSED STRUCTURAL STEEL
AFF	ABOVE FINISH FLOOR
AH	ACCESS HATCH
AHU	AIR HANDLING UNIT
AIB	AIR INFILTRATION BARRIER
ALT	ALTERNATE
ALTB	ACOUSTICALLY LINED TRANSFER BOX
ALTN	ALTERATION ALUM ALUMINUM
AMP	AMPERE
ANOD	ANODIZED
ANT	ACID NEUTRALIZATION TANK
AP	ACCESS PANEL, APPROX, APPROXIMATE(LY)
APC	ARCHITECTURAL PRECAST CONCRETE
ARCH	ARCHITECT (URAL)
A/S	AIR SEPARATOR
ASB	ASBESTOS
ASPH	ASPHALT
ATV	ATMOSPHERIC VENT
AUD	AUDITORIUM
AUTO	AUTOMATIC
AVE	AVERAGE
B	BOILER, BRICK, BOTTOM
BB	BASKETBALL
BBD	BOILER BLOWDOWN
BC	BOTTOM OF CURB
BCU	BLOWER COIL UNIT
BCX	BOTTOM CHORD EXTENSION
BD	BOARD
BDD	BACKDRAFT DAMPER
BF	BACK FLOW PREVENTER
BG	BOTTOM GRILLE
BIT	BITUMINOUS
BLDG	BUILDING
BLK	BLOCK
BLKG	BLOCKING
BM	BEAM
BO	BY OTHERS
BOD	BOTTOM OF DUCT
BOF	BOTTOM OF FOOTING
BOS	BOTTOM OF STEEL
BOT	BOTTOM
BPL	BEARING PLATE
BR	BOTTOM REGISTER
BRDG	BRIDGING
BRG	BEARING
BRK	BRICK
BRSH	BRICKSHELF
BRZ	BRONZE
BS	BOTH SIDES, BOTTOM OF STAIR
BSMT	BASEMENT
BSPL	BACKSPLASH
BT	BENT
BTU	BRITISH THERMAL UNITS
BTUH	BRITISH THERMAL UNITS PER HOUR
BUR	BUILT-UP ROOFING
BW	BOTTOM OF WALL
BWC	BACK WATER CHECK VALVE
C	CONDUIT, CONVECTOR, CONDENSOR, COMMON, CARPET
CA	COMPRESSED AIR
CAB	CABINET
CATV	CABLE TELEVISION
CB	CATCH BASIN, CIRCUIT BREAKER, CHALKBOARD
CCTV	CLOSED CIRCUIT TELEVISION
CD	CEILING DIFFUSER, CONDENSATE DRAIN
CEM	CEMENT
CER	CERAMIC CF CUBIC FEET, CEILING FAN
CFM	CUBIC FEET PER MINUTE
CFMF	COLD FORMED METAL FRAMING
CFT	CERAMIC FLOOR TILE
CG	CEILING GRILLE
CHAN	CHANNEL
CHUV	CEILING HUNG UNIT VENTILATOR
CI	CAST IRON
CIP	CAST IN PLACE
CIRC	CIRCUMFERENCE
CJ	CONTROL JOINT
CL	CENTER LINE
CLG	CEILING
CLKG	CAULKING
CLL	CONTRACT LIMIT LINE
CLR	CLEAR (ING) (ENCE)
CLRM	CLASSROOM
CMP	CORRUGATED METAL PANEL
CMT	CERAMIC MOSAIC TILE
CMU	CONCRETE MASONRY UNIT
CO	CLEAN OUT
CODP	CLEAN OUT DECK PLATE
COL	COLUMN
COMB	COMBINATION
COMP	COMPRESS (ED) (ION) (IBLE), COMPOSITE
CONC	CONCRETE
COND	CONDENSATE
CONN	CONNECTION
CONST	CONSTRUCTION
CONT	CONTINOUS
CONTR	CONTRACT (OR)
COORD	COORDINATE
CORR	CORRUGATED, CORRIDOR
COWP	CLEAN OUT WALL PLATE
CPVC	CHLORINATED POLY VINYL CHLORIDE
CR	CEILING REGISTER
CRS	COURSE (S)
CSK	COUNTERSINK
CSMT	CASEMENT
CT	COMPUTER TERMINAL, CERAMIC BASE TILE
CTD	COATED
CTOP	COUNTER TOP
CTR	CENTER
CU	CUBIC
CUH	CABINET UNIT HEATER
CV	CONVECTOR, CURB VALVE
CW	COLD WATER
CWR	CHILLED WATER RETURN
CWS	CHILLED WATER SUPPLY
CWT	CERAMIC WALL TILE
D	DIESEL FUEL, DEPTH
DB	DRY BULB
DC	DIRECT CURRENT
DDC	DIRECT DIGITAL CONTROL
DE	DELONIZED WATER
DEG	DEGREES
DEMO	DEMOLISH
DEP	DEPRESS (ED) (ION)
DET	DETAIL (ED)
DF	DRINKING FOUNTAIN
DH	DOUBLE HUNG
DHU	DEHUMIDIFICATION UNIT
DI	DROP INLET, DUCTILE IRON, DISTILLED WATER
DIA	DIAMETER
DIAG	DIAGONAL
DIM	DIMENSION
DISP	DISPENSER
DIST	DISTANCE
DIV	DIVISION
DL	DEAD LOAD
DN	DOWN
DO	DITTO
DP	DAMPPROOF (ING)
DPR	DAMPER
DR	DOOR, DEEP RIB
DWG	DRAWING
DS	DOWNSPOUT, DRAINAGE STRUCTURE
DT	DRAIN TILE
DTA	DOVETAIL ANCHOR
DTL	DETAIL
DW	DUMBWAITER, DISHWASHER
DWL	DOWEL
DWR	DRAWER
E	EAST
EA	EXHAUST AIR, EACH
EAT	ENTERING AIR TEMPERATURE
EB	EXPANSION BOLT
EC	ELECTRICAL CONTRACTOR
ECF	ENHANCED CONCRETE FLOORING
EIFS	EXTERIOR INSULATION SYSTEM
EF	EACH FACE, EXHAUST FAN
EJ	EXPANSION JOINT
ELEC	ELECTRIC (AL)
ELEM	ELEMENT
ELEV	ELEVATION, ELEVATOR
EM	EMERGENCY
EMT	ELECTRICAL METALLIC TUBING
ENC	ENCLOSURE
EOD	EDGE OF DECK
EOS	EDGE OF SLAB
EQ	EQUAL, EQUIVALENT
EQC	EQUIPMENT CONTRACTOR
EQUIP	EQUIPMENT
ES	EXPOSED SURFACE, EXPOSED STRUCTURE
ESF	ELASTIC SHEET FLASHING
ESM	ELASTIC SHEET MEMBRANE
EW	EACH WAY
EWC	ELECTRIC WATER COOLER
EWT	ENTERING WATER TEMPERATURE
EXH	EXHAUST
EXG	EXISTING
EXP	EXPANSION
EXT	EXTERIOR, EXTERNAL
F	FAHRENHEIT
FA	FIRE ALARM
FAI	FRESH AIR INTAKE
FCU	FAN COOLING UNIT
FD	FLOOR DRAIN, FIRE DAMPER
FDC	FIRE DEPARTMENT CONNECTION
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FF	FINISH FLOOR, FACTORY FINISH
FFE	FINISH FLOOR ELEVATION
FFL	FINISH FLOOR LINE
FG	FLOOR GRILLE
FH	FIRE HYDRANT
FHC	FIRE HOSE CABINET
FIN	FINISH (ED)
FIXT	FIXTURE
FL	FLUSH
FLD	FLOOR DUCT
FLEX	FLEXIBLE
FLG	FLASHING
FLR	FLOOR (ING)
FLUOR	FLUORESCENT
FM	FLOOR MOUNTED
FMC	FLEXIBLE METAL CONDUIT
FND	FOUNDATION
FOB	FREIGHT ON BOARD, FLAT ON BOTTOM
FOG	FUEL OIL GAUGE
FOR	FUEL OIL RETURN
FOS	FUEL OIL SUPPLY
FOT	FLAT ON TOP
FP	FIREPROOF (ING)
FPM	FEET PER MINUTE
FR	FRAME, FLOOR REGISTER
FRA	FRESH AIR
FRC	FIRE RESISTANT COATING
FRP	FIBERGLASS REINFORCED PANEL
FRT	FIRE RETARDANT
FS	FLOOR SINK
FSD	FIRE AND SMOKE DAMPER
FT	FEET, FLOOR TREATMENT
FTG	FOOTING
FTR	FIN TUBE RADIATION
FV	FLUSH VALVE
G	GAS, GLYCOL
GA	GAUGE
GAL	GALLON
GALV	GALVANIZED
GASK	GASKET (ED)
GC	GENERAL CONTRACT (OR)
GCMU	GLAZED CONCRETE MASONRY UNIT
GCO	GRADE CLEANOUT GF GROUND FACE
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GL	GLASS, GLAZING
GND	GROUND
GPM	GALLONS PER MINUTE
GR	GRADE (ING), GLYCOL RETURN
GS	GLYCOL SUPPLY
GVL	GRAVEL
GW	GREASE WASTE
GWB	GYPSUM WALL BOARD
GYP	GYPSUM
H	HEIGHT
HB	HOSE BIB
HBD	HARD BOARD
HC	HEATING CONTRACT (OR), HANDICAP
HCR	HOT/CHILLED RETURN
HCS	HOT/CHILLED SUPPLY
HD	HEAVY DUTY
HDPE	HIGH DENSITY POLYETHYLENE
HDR	HEADER
HDW	HARDWARE
HG	HOT GLYCOL
HIP	HIGH IMPACT PANEL
HM	HOLLOW METAL
HORZ	HORIZONTAL
HP	HORSEPOWER, HIGH PRESSURE, HEAT PUMP
HPS	HEAT PUMP LOOP WATER SUPPLY
HPR	HEAT PUMP LOOP WATER RETURN
HPC	HIGH PERFORMANCE COATING
HPL	HIGH PRESSURE LAMINATE
HR	HANDRAIL, HOUR
HT	HEIGHT
HTG	HEATING
HV	HIGH VOLTAGE
HVAC	HEATING/VENTILATING/AIR CONDITIONING
HVU	HEATING AND VENTILATING UNIT
HW	HOT WATER
HWH	HOT WATER HEATER
HWP	HOT WATER PUMP
HWR	HOT WATER RETURN
HWS	HOT WATER SUPPLY
ID	INSIDE DIAMETER
IE	INVERT ELEVATION
IN	INCHES
INCL	INCLUDE (D) (ING)
INS	INSULATE (D) (ION)
INT	INTERIOR
INV	INVERT
IP	IRON PIPE
IPS	IRON PIPE SIZE
IW	INDIRECT WASTE
J	JANITORS CLOSET
JAN	JANITORS CLOSET
JB	JUNCTION BOX
JC	JANITORS CLOSET
JCT	JUNCTION
JT	JOINT
KW	KILOWATT
KWH	KILOWATT PER HOUR
KV	KILOVOLT
KVA	KILOVOLT AMPERE
L	LENGTH, LONG
LAB	LABORATORY
LAD	LADDER
LAM	LAMINATE (D)
LAT	LEAVING AIR TEMPERATURE
LAV	LAVATORY
LB	POUND
LBL	LABEL
LBP	LEAD BASED PAINT
LC	LANDSCAPE CONTRACTOR (SITE)
LCC	LEAD COATED COPPER
LDR	LEADER
LEV	LEVEL
LV	LABORATORY VENT
LW	LABORATORY WASTE
LF	LINEAR FOOT
LFMC	LIQUID-TIGHT FLEXIBLE METAL CONDUIT
LFNC	LIQUID-TIGHT FLEXIBLE NONMETALLIC CONDUIT
LG	LENGTH, LONG
LGI	LARGE GROUP INSTRUCTION
LH	LEFT HAND
LIN	LINEAR
LKR	LOCKER
LL	LIVE LOAD
LP	LOW PRESSURE
LPC	LOW PRESSURE CONDENSATE
LPS	LOW PRESSURE STEAM
LPT	LOW POINT
LS	LINOLEUM SHEET
LT	LIGHT, LINOLEUM TILE
LTL	LINTEL
LV	LOW VOLTAGE
LVR	LOUVER
LWT	LEAVING WATER TEMPERATURE
MAN	MANUAL
MAS	MASONRY
MAT	MATERIAL
MAU	MAKE UP AIR UNIT
MAX	MAXIMUM
MB	MARKER BOARD
MBH	THOUSAND BTUH
MBR	MEMBER
MD	MOTORIZED DAMPER
ME	MECHANICAL EQUIPMENT
MECH	MECHANICAL (LY)
MED	MEDIUM
MEMB	MEMBRANE
MEZZ	MEZZANINE
MF	MIXING FAUCET
MFR	MANUFACTURE (R)
MH	MAN HOLE
MIN	MINIMUM
MIR	MIRROR
MISC	MISCELLANEOUS
MO	MASONRY OPENING
MOD	MODULE (OR), MODEL
MR	MOP RECEPTOR
MP	MULTICOLOR WALL COATING
MT	MOUNT
MTD	MOUNTED
MTG	MOUNTING
MTL	METAL
MTH	MARBLE THRESHOLD
MTR	METER
MULL	MULLION
MVEJ	MASONRY VENEER EXPANSION JOINT
N	NORTH, NO WORK REQUIRED
NAT	NATURAL
NC	NORMALLY CLOSED
NEC	NATIONAL ELECTRIC CODE
NEG	NEGATIVE
NEUT	NEUTRALIZATION
NIC	NOT IN CONTRACT
NO	NUMBER, NORMALLY OPEN
NOM	NOMINAL
NRC	NOISE REDUCTION COEFFICIENT
NTS	NOT TO SCALE
OA	OVERALL, OUTSIDE AIR
OC	ON CENTER
OD	OUTSIDE DIAMETER
OH	OVERHEAD
OPNG	OPENING
OPP	OPPOSITE
OPP HD	OPPOSITE HAND
P	PAINT SURFACE(S) INCLUDING SOFFITS
PAR	PARALLEL
PART	PARTITION
PC	PLUMBING CONTRACT (OR), PIGMENTED CONCRETE
PCC	PRECAST CONCRETE
PE	PORCELAIN ENAMEL
PENC	PRE-EXISTING NON-CONFORMING
PERF	PERFORATE (ION) (ED)
PERI	PERIMETER
PERP	PERPENDICULAR
PL	PLATE, PROPERTY LINE
PLAM	PLASTIC LAMINATE
PLAS	PLASTER, PLASTIC
PLF	POUNDS PER LINEAR FOOT
PLYWD	PLYWOOD
PM	PLUGMOLD
PNL	PANEL
POC	POINT OF CURVATURE, POINT OF CONNECTION
POL	POLISHED
POS	POSITIVE
POT	POINT OF TANGENCY
PR	PAIR
PRE	POWER ROOF EXHAUSTER
PREP	PREPARE (ATION)
PRF	PREFORMED
PROJ	PROJECT
PS	PAINT EXPOSED STRUCTURE/DECK
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PT	POINT, PORCELAIN TILE
PTD	PAINTED
PTFR	PRESSURE TREATED FIRE RETARDANT
PTP	PRESSURE TREATED PRESERVATIVE
PVC	POLYVINYL CHLORIDE
PVMT	PAVEMENT
PWE	POWER WALL EXHAUSTER
QF	QUARTZ FLOORING
QT	QUARRY TILE
R	RADIUS, RETURN, REFRIGERANT, REINSTALL
RA	RETURN AIR
RAD	RADIATION
RAF	RETURN AIR FAN, RESILIENT ATHLETIC FLOORING
RB	RESILIENT BASE
RC	ROOFING CONTRACT (OR)
RCA	RECYCLED CONCRETE AGGREGATE
RCP	REINFORCED CONCRETE PIPE, REFLECTED CEILING PLAN
RCU	REMOTE CONDENSING UNIT
RD	ROOF DRAIN
RECEPT	RECEPTACLE
REF	REFERENCE
REFL	REFLECT (ED) (IVE) (OR)
REFR	REFRIGERATOR
REG	REGISTER
REINF	REINFORCE (D) (ING)
REM	REMOVED
REQD	REQUIRED
RESIL	RESILIENT
RET	RETAINING, RETURN
REV	REVISION, REVISED, REVEAL
RF	RUBBER FLOORING
RFG	ROOFING
RFH	ROOF HATCH
RFM	RECESSED FLOOR MAT
RG	RETURN GRILLE
RGS	RIGID GALVANIZED STEEL
RH	RIGHT HAND
RHC	REHEAT COIL
RI	ROUGH-IN
RL	RAIN LEADER
RLG	RAIL(ING)
RM	ROOM
RMC	RIGID METAL CONDUIT
RNC	RIGID NONMETALLIC CONDUIT
RNT	RUNNING TRAP
RO	ROUGH OPENING
ROW	RIGHT OF WAY
RPM	REVOLUTIONS PER MINUTE
RR	REMOVE EXISTING AND REPLACE WITH NEW
RS	RUBBER STAIR TREAD/RISER
RTH	ROOF TOP HOOD
RTU	ROOF TOP UNIT
RW	RAW WATER
S	SOUTH, SUPPLY, SURGE PROTECTED
SA	SUPPLY AIR
SAN	SANITARY
SAS	SMOOTH ALL SIDES
SC	SOLID CORE, SILL COCK, SEALED CONCRETE
SCHED	SCHEDULE
SCT	STRUCTURAL CLAY TILE
SD	STORM DRAIN, SPLITTER DAMPER, SMOKE DAMPER
SEC	SECTION
SF	SQUARE FEET
SGI	SMALL GROUP INSTRUCTION
SGT	STRUCTURAL GLAZED TILE
SH	SHELF, SHELVING, SMOKE HATCH
SHR	SHOWER, SHEAR WALL
SHT	SHEET
SHTHG	SHEATHING
SIM	SIMILAR
SK	SINK
SL	SOUND LINED, SKYLIGHT
SLC	SILLCOCK
SLV	SLEEVE
SLVR	STORM LOUVER
SMH	SANITARY MANHOLE
SOG	SLAB ON GRADE
SP	STATIC PRESSURE, STANDPIPE, SPACE (ING) (ES)
SPEC	SPECIFICATION (S)
SPKR	SPRINKLER
SPL	SPECIAL
SQ	SQUARE
SS	STAINLESS STEEL
SST	STRUCTURAL STEEL TUBING
ST	STORM, STORAGE
STA	STATION
STC	SHOWER TEMPERATURE CONTROLLER, STAINED CONCRETE
STD	STANDARD
STG	SEATING
STL	STEEL
STN	STAIN (ED)
STOR	STORAGE
STRU	STRUCTURAL
SURF	SURFACE
SUSP	SUSPENDED
SV	SHEET VINYL, STEAM VENT
SW	SWITCH, SOFTENED WATER
SWCI	SERVICE WEIGHT CAST IRON
SYM	SYMMETRICAL
SYN	SYNTHETIC
SYS	SYSTEM
T	TREAD, TOP, TOILET ROOM, TONS, TERRAZZO
TB	TOP AND BOTTOM, TACK BOARD, TERRAZZO BASE
TBD	TO BE DETERMINED
TC	TEMPERATURE CONTROL, TEMPERED CLEAR, TELECOMMUNICATIONS CONTRACTOR, TOP OF CURB
TCX	TOP CHORD EXTENTION
TDV	TRIPLE DUTY VALVE
TEL	TELEPHONE
TEMP	TEMPERATURE
TG	TOP GRILLE, TONGUE AND GROOVE
THK	THICKNESS
THR	THRESHOLD
TME	TO MATCH EXISTING
TMV	THERMOSTATIC MIXING VALVE
TOD	TOP OF DUCT
TOF	TOP OF FASCIA, TOP OF FOOTING
TOL	TOLERANCE
TOM	TOP OF MASONRY
TOP	TOP OF PIPE, TOP OF PIER
TOS	TOP OF STEEL, TOP OF STAIR
TPART	TOILET PARTITION
TR	TOP REGISTER
TRN	TRANSOM
TS	TOP OF STAIR
TV	TELEVISION
TW	TEMPERED WATER, TOP OF WALL
TYP	TYPICAL
UC	UNDERCUT
UD	UNDERDRAIN
UE	UNDERGROUND ELECTRIC
UG	UNDERGROUND
UH	UNIT HEATER
UNF	UNFINISHED
UNIF	UNIFORM
UNO	UNLESS NOTED OTHERWISE
UR	URINAL
UT	UNDERGROUND TELEPHONE
UV	UNIT VENTILATOR
V	VENT, VOLT
VAR	VARIES, VARIABLE
VARN	VARNISH
VAT	VINYL ASBESTOS TILE
VAV	VARIABLE AIR VOLUME
VB	VACUUM BREAKER, VAPOR RETARDER BARRIER, VOLLEYBALL
VCB	VENTED COVE BASE
VCT	VINYL COMPOSITE TILE
VD	VOLUME DAMPER
VERM	VERMICULITE
VERT	VERTICAL
VEST	VESTIBULE
VIF	VERIFY IN FIELD
VIN	VINYL
VIT	VITREOUS TILE
VNR	VENEER
VOL	VOLUME
VTR	VENT THROUGH ROOF
VWC	VINYL WALL COVERING
W	WEST, WIDTH, WIDE, WASTE, WATT
WB	WET BULB
WC	WATER CLOSET, WALL COVERING
WD	WOOD, WOOD FLOORING
WDW	WINDOW
WDWC	WINDOW CONTRACTOR
WF	WASH FOUNTAIN
WG	WALL GRILLE, WATER GAUGE
WH	WALL HUNG, WALL HYDRANT
WHA	WATER HAMMER ARRESTOR
WI	WROUGHT IRON
WM	WIREMOLD
WP	WATER PROOFING, WORKING POINT
WR	WATER REPELLENT, WIDE RIB, WALL REGISTER
WS	WATER STOP
WSCT	WAINSCOT
WT	WEIGHT
WWHP	WATER TO WATER HEAT PUMP
WWM	WELDED WIRE MESH
W/	WITH
W/O	WITHOUT
XHCI	EXTRA HEAVY CAST IRON
YD	YARD DRAIN, YARD

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BID SET

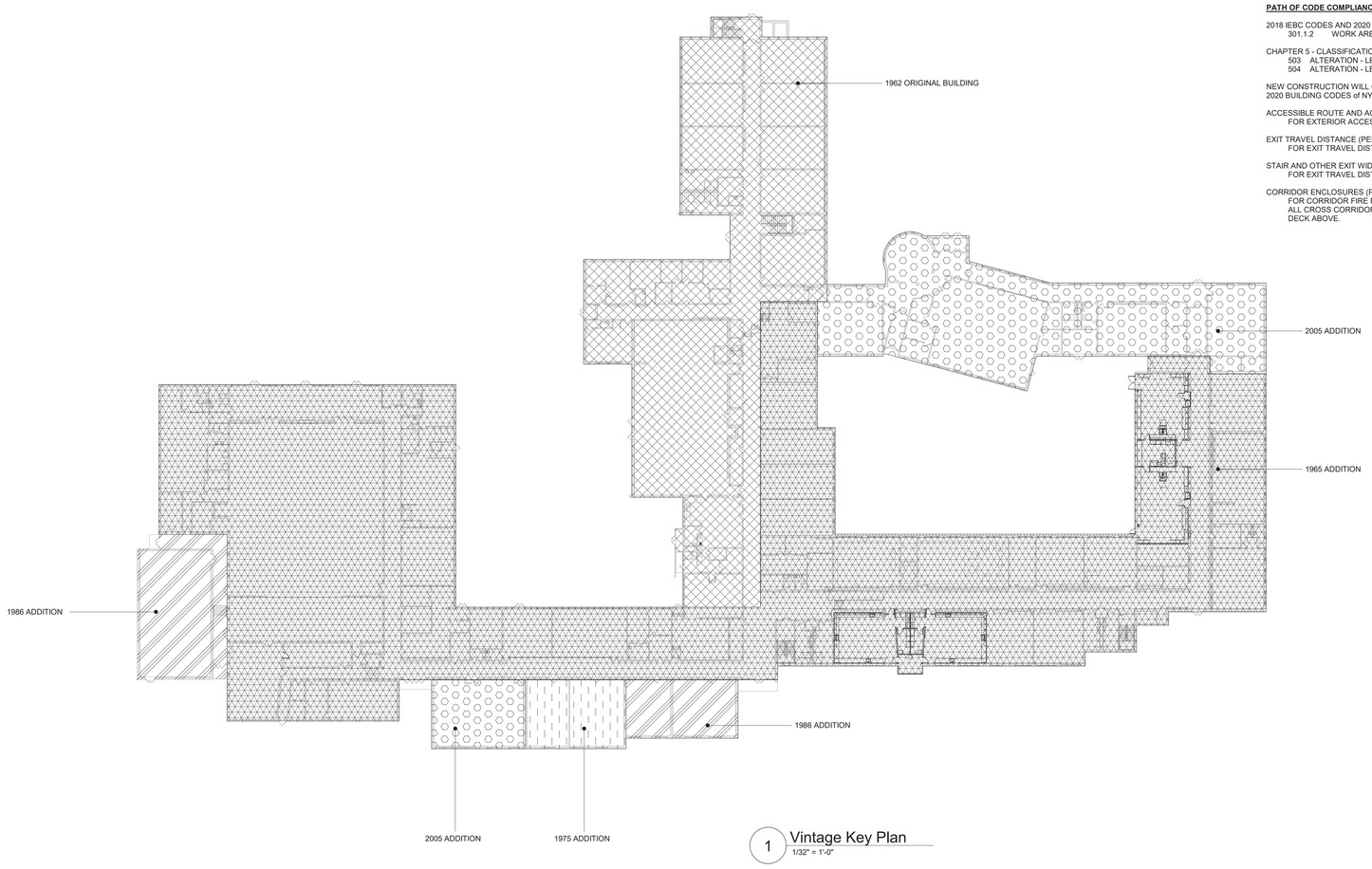
TETRA TECH
ARCHITECTS & ENGINEERS

Beacon City School District
Beacon, New York

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

Symbols and Abbreviations

Drawn By:	Date:	Drawing Number:
TTAE	10/28/2022	G100
Project No.: 279180-22004		



1 Vintage Key Plan
1/32" = 1'-0"

Code Compliance Review

PROJECT LOCATION:
88 MATTEAWAN ROAD, BEACON, NEW YORK 12508
BOUNDED BY MATTEAWAN ROAD TO THE NORTH AND ROBERT CAHILL DRIVE TO THE SOUTH.

PROJECT DESCRIPTION:
THIS PROJECT INCLUDES RENOVATION OF APPROXIMATELY 38,418 SF OF SPACE ON THE FIRST AND SECOND FLOOR.

WORK GENERALLY CONSISTS OF THE FOLLOWING:
ALTERATIONS - LEVEL 1
- REPLACE CORRIDOR CEILINGS
- REPLACE SELECTED ROOF AREAS
- REPLACE GREASE INTERCEPTOR
- UPGRADE EMERGENCY LIGHTING
- UPGRADE LIGHTING

ALTERATIONS - LEVEL 2
- ADD MECHANICAL VENTILATION TO CLASSROOMS
- UPGRADE SCIENCE ROOMS
- UPGRADE ART ROOMS
- COURTYARD LEARNING SPACE

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:

BUILDING: ROMBOUT MIDDLE SCHOOL
88 MATTEAWAN ROAD
BEACON, NY 12508

DESCRIPTION: TWO STORY MASONRY AND REINFORCED CONCRETE BUILDING.

YEAR BUILT: 1962
ADDITIONS: 1965,1975,1986 AND 2005

BUILDING AREA: 1ST FLOOR 122,556 SQFT
2ND FLOOR 23,074 SQFT

TOTAL GROSS AREA= 145,630 SQFT

CODE DATA SUMMARY:

USE GROUP: E : EDUCATION

CONSTRUCTION TYPE -

EXISTING: IIB

FIRE SAFETY: NO AUTOMATIC SPRINKLER SYSTEM PROVIDED.

NO, SELF CONTAINED SYSTEMS AT FABRICATED PAINT BOOTH AND DUST COLLECTION SYSTEM.

WORK AREA:

LOCATION	AREA	% OF TOTAL
1ST FLOOR	20,888 SQFT	17.0%
2ND FLOOR	3,798 SQFT	16.5%

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

PATH OF CODE COMPLIANCE:

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

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 EG300.

EXIT TRAVEL DISTANCE (PER TABLE 1017.2):
FOR EXIT TRAVEL DISTANCE - SEE EG351.

STAIR AND OTHER EXIT WIDTH CALCULATIONS (PER 1005.3.1 AND 1005.3.2):
FOR EXIT TRAVEL DISTANCE - SEE EG351

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.

General Code Notes

A. REFER TO CODE COMPLIANCE DRAWINGS FOR ADDITIONAL CODE COMPLIANCE INFORMATION.

B. COORDINATE WITH FLOOR PLANS, WALL SECTIONS AND PARTITION TYPES FOR RATED WALL TYPES AND LOCATIONS. IMMEDIATELY NOTIFY ARCHITECT OF ANY WALL RATING DISCREPANCIES BETWEEN EG351 AND EG352 DRAWINGS AND FLOOR PLANS.

C. ALL WALLS, INCLUDING AT CORRIDORS, SHALL EXTEND COMPLETELY TO THE UNDERSIDE OF DECKING, SUPPORTING STRUCTURE OR ROOF ABOVE, TYPICAL UNLESS NOTED OTHERWISE.

D. AT AREAS OF PROJECT WORK, COMPLETELY SEAL ALL PENETRATIONS REQUIRED TO COMPLY WITH FIRE RESISTANCE RATINGS IDENTIFIED ON THE EG351 AND EG352 DRAWINGS, REGARDLESS IF WALL IS NEW OR EXISTING, TYPICAL UNLESS NOTED OTHERWISE.

E. 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 ELEMENTS ARE CONTAINED WITHIN.

F. ALL CMU CONSTRUCTION SHALL MEET FIRE RESISTANCE REQUIREMENTS INDICATED. PROVIDED BLOCK TYPE AS REQUIRED TO COMPLY WITH UL DESIGN NUMBERS AND WALL RATINGS INDICATED, REGARDLESS IF NOTED AS SUCH ON PLAN DETAILS.

General Notes

A. DO NOT SCALE DRAWINGS TO OBTAIN DIMENSIONS.

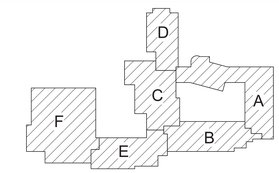
B. TAKE FIELD MEASUREMENTS TO FIT THE WORK PROPERLY. VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS IN THE FIELD.

C. REFER INCONSISTENCIES TO ARCHITECT PRIOR TO COMMENCING THE WORK IN AFFECTED AREA.

D. ITEMS ARE SHOWN DIAGRAMMATICALLY ON DRAWINGS. VERIFY SPACE REQUIREMENTS AND DIMENSIONS TO FIT THE WORK PROPERLY.

E. NOTES SHOWN ON ONE DRAWING APPLY TO ALL SIMILAR DRAWINGS.

F. DO NOT DISTURB CONSTRUCTION SUSPECTED OF CONTAINING HAZARDOUS MATERIAL. IF ENCOUNTERED, IMMEDIATELY NOTIFY ARCHITECT, CONSTRUCTION MANAGER AND OWNER.



Key Plan
N.T.S.

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

Rev. No.:	Date:	Description:

BEACON CITY SCHOOL DISTRICT — WHERE EXCELLENCE IS THE STANDARD

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

BID SET

TETRA TECH
ARCHITECTS & ENGINEERS

Beacon City School District
Beacon, New York

Reconstruction to:
Rombout Middle School

Code Compliance Review and Vintage Key Plan

Drawn By:	Date:	Drawing Number:
TLG	10/28/2022	EG350

Project No.:
279180-22004

General Notes

A. DO NOT SCALE DRAWINGS TO OBTAIN DIMENSIONS.

B. TAKE FIELD MEASUREMENTS TO FIT THE WORK PROPERLY. VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS IN THE FIELD.

C. REFER INCONSISTENCIES TO ARCHITECT PRIOR TO COMMENCING THE WORK IN AFFECTED AREA.

D. ITEMS ARE SHOWN DIAGRAMMATICALLY ON DRAWINGS. VERIFY SPACE REQUIREMENTS AND DIMENSIONS TO FIT THE WORK PROPERLY.

E. NOTES SHOWN ON ONE DRAWING APPLY TO ALL SIMILAR DRAWINGS.

F. DO NOT DISTURB CONSTRUCTION SUSPECTED OF CONTAINING HAZARDOUS MATERIAL. IF ENCOUNTERED, IMMEDIATELY NOTIFY ARCHITECT, CONSTRUCTION MANAGER AND OWNER.

General Code Notes

A. REFER TO CODE COMPLIANCE DRAWINGS FOR ADDITIONAL CODE COMPLIANCE INFORMATION.

B. COORDINATE WITH FLOOR PLANS, WALL SECTIONS AND PARTITION TYPES FOR RATED WALL TYPES AND LOCATIONS. IMMEDIATELY NOTIFY ARCHITECT OF ANY WALL RATING DISCREPANCIES BETWEEN EG351 AND EG352 DRAWINGS AND FLOOR PLANS.

C. ALL WALLS, INCLUDING AT CORRIDORS, SHALL EXTEND COMPLETELY TO THE UNDERSIDE OF DECKING, SUPPORTING STRUCTURE OR ROOF ABOVE, TYPICAL UNLESS NOTED OTHERWISE.

D. AT AREAS OF PROJECT WORK, COMPLETELY SEAL ALL PENETRATIONS REQUIRED TO COMPLY WITH FIRE RESISTANCE RATINGS IDENTIFIED ON THE EG351 AND EG352 DRAWINGS, REGARDLESS IF WALL IS NEW OR EXISTING, TYPICAL UNLESS NOTED OTHERWISE.

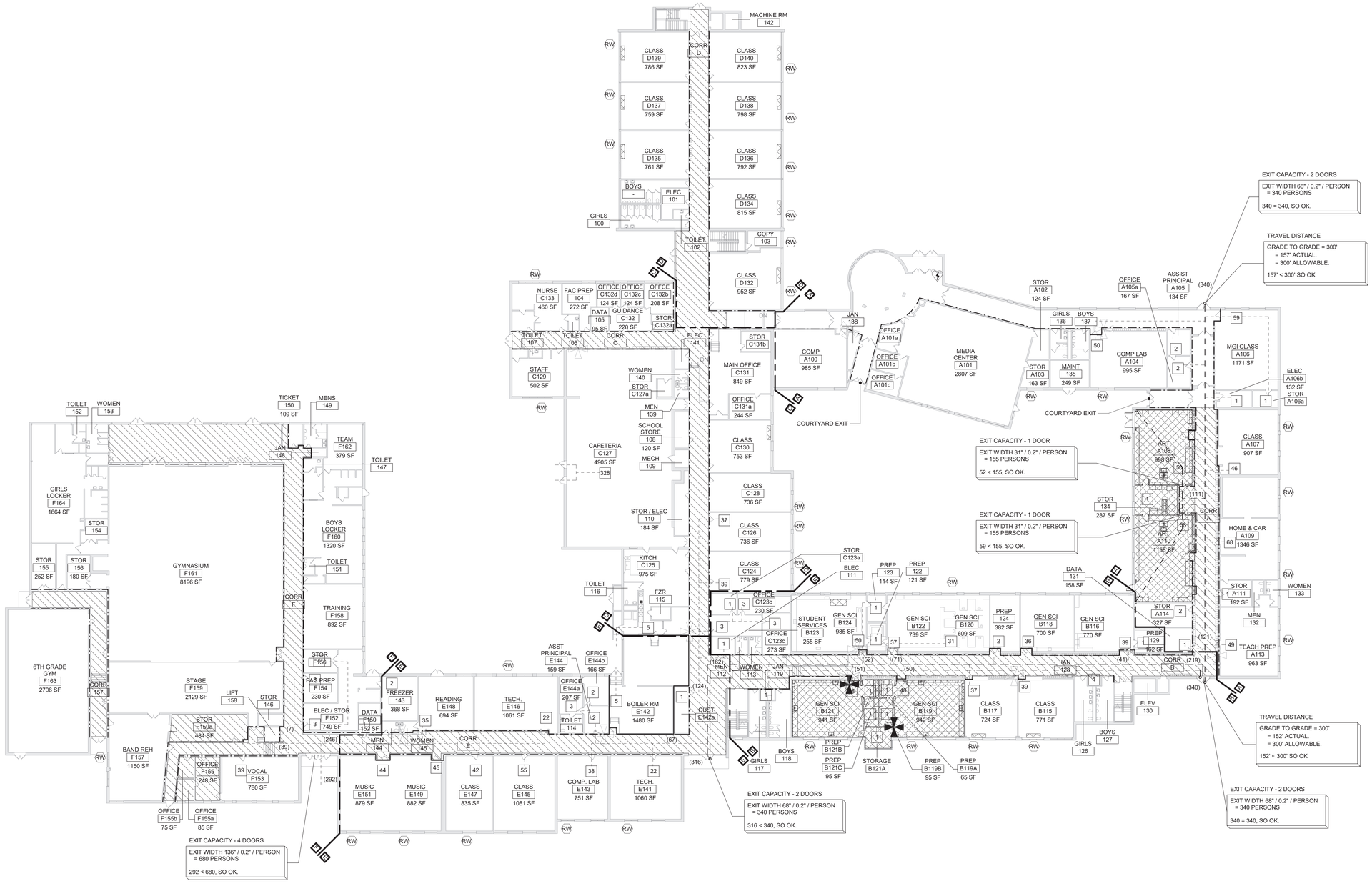
E. PROVIDE APPLIED FIREPROOFING TO ALL BEAMS, JOISTS AND STRUCTURAL STEEL ELEMENTS AT ALL FIRE BARRIERS, FIRE PARTITIONS, AND OTHER RATED WALLS WHERE INDICATED ON DRAWINGS, AND THAT ARE NOT COMPLETELY PROTECTED WITHIN THE RATED CONSTRUCTION. PROTECTION OF SUCH ELEMENTS SHALL MATCH THE RATING OF THE WALL THAT THE ELEMENTS ARE CONTAINED WITHIN.

F. ALL CMU CONSTRUCTION SHALL MEET FIRE RESISTANCE REQUIREMENTS INDICATED. PROVIDED BLOCK TYPE AS REQUIRED TO COMPLY WITH UL DESIGN NUMBERS AND WALL RATINGS INDICATED, REGARDLESS IF NOTED AS SUCH ON PLAN DETAILS.

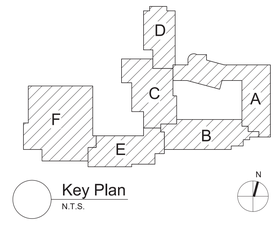
Legend

ALL WALLS, INCLUDING CORRIDOR WALLS, EXTEND TO THE ROOF DECK OR FLOOR DECK ABOVE UNLESS NOTED OTHERWISE.

- 2-HOUR FIRE BARRIER
- 1-HOUR FIRE PARTITION
- COMMON EGRESS PATH
- XX — NUMBER OF OCCUPANTS IN EACH SPACE, UNO
- (XX) — NUMBER OF OCCUPANTS ALONG EGRESS PATH
- XX'-XX" — TOTAL EGRESS DISTANCE PER PATH
- NEW FIRE EXTINGUISHER LOCATION
- EXISTING FIRE EXTINGUISHER LOCATION
- RW — RESCUE WINDOW
- ALTERATION LEVEL 1 WORK AREA
- ALTERATION LEVEL 2 WORK AREA



1 First Floor Key Plan
3/64" = 1'-0"



Key Plan
N.T.S.

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

Rev. No.:	Date:	Description:

BEACON CITY SCHOOL DISTRICT WHERE EXCELLENCE IS THE STANDARD

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

BID SET

TETRA TECH ARCHITECTS & ENGINEERS

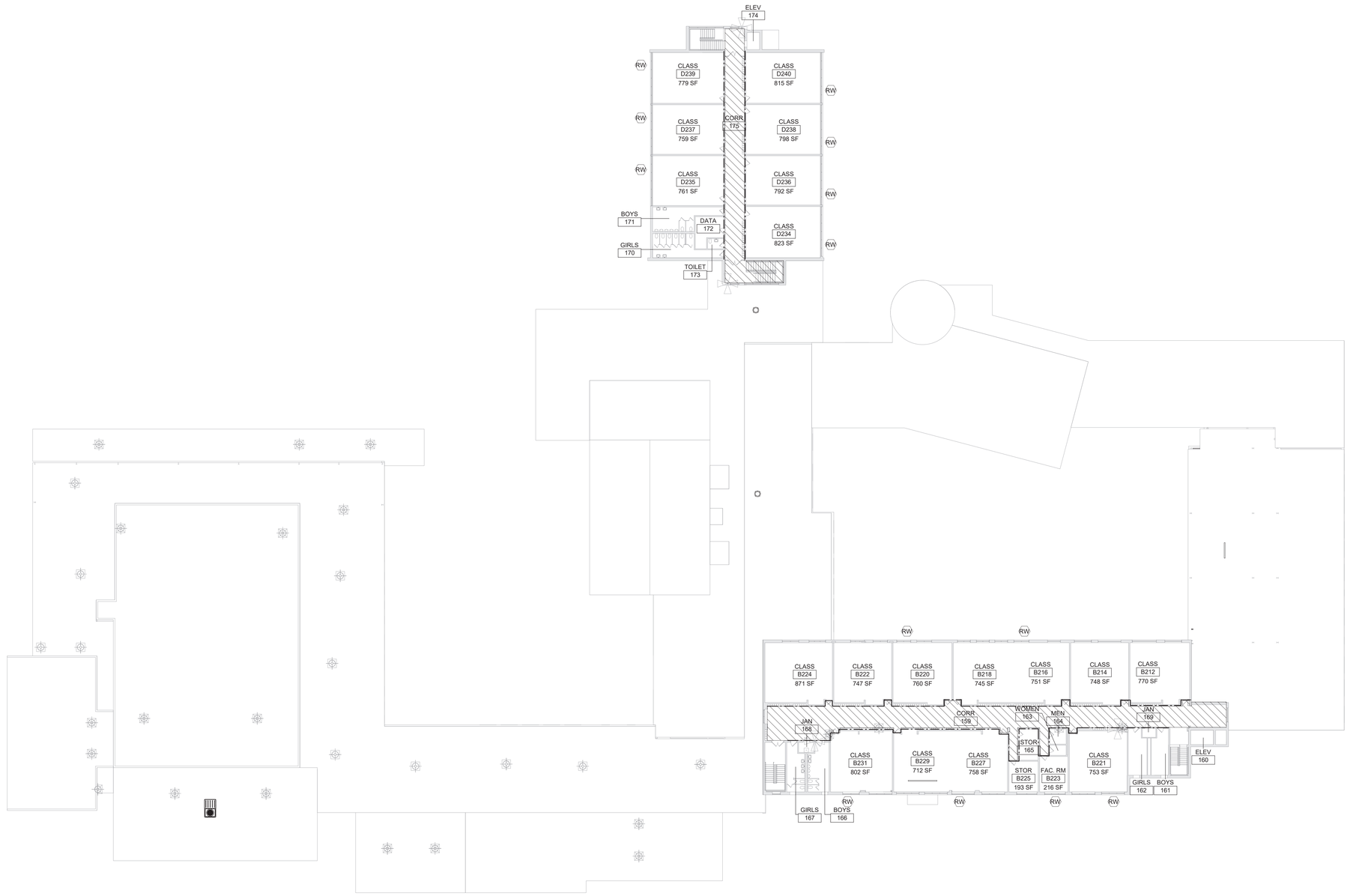
Beacon City School District
Beacon, New York

Reconstruction to:
Rombout Middle School

Code Compliance First Floor Key Plan

Drawn By:	Date:	Drawing Number:
TLG	10/28/2022	EG351

Project No.: 279180-22004



1 Second Floor Key Plan
3/64" = 1'-0"

General Code Notes

A. REFER TO CODE COMPLIANCE DRAWINGS FOR ADDITIONAL CODE COMPLIANCE INFORMATION.

B. COORDINATE WITH FLOOR PLANS, WALL SECTIONS AND PARTITION TYPES FOR RATED WALL TYPES AND LOCATIONS. IMMEDIATELY NOTIFY ARCHITECT OF ANY WALL RATING DISCREPANCIES BETWEEN EG351 AND EG352 DRAWINGS AND FLOOR PLANS.

C. ALL WALLS, INCLUDING AT CORRIDORS, SHALL EXTEND COMPLETELY TO THE UNDERSIDE OF DECKING, SUPPORTING STRUCTURE OR ROOF ABOVE, TYPICAL UNLESS NOTED OTHERWISE.

D. AT AREAS OF PROJECT WORK, COMPLETELY SEAL ALL PENETRATIONS REQUIRED TO COMPLY WITH FIRE RESISTANCE RATINGS IDENTIFIED ON THE EG351 AND EG352 DRAWINGS, REGARDLESS IF WALL IS NEW OR EXISTING, TYPICAL UNLESS NOTED OTHERWISE.

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F. ALL CMU CONSTRUCTION SHALL MEET FIRE RESISTANCE REQUIREMENTS INDICATED. PROVIDED BLOCK TYPE AS REQUIRED TO COMPLY WITH UL DESIGN NUMBERS AND WALL RATINGS INDICATED, REGARDLESS IF NOTED AS SUCH ON PLAN DETAILS.

Legend

ALL WALLS, INCLUDING CORRIDOR WALLS, EXTEND TO THE ROOF DECK OR FLOOR DECK ABOVE UNLESS NOTED OTHERWISE.

- 2-HOUR FIRE BARRIER
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- NEW FIRE EXTINGUISHER LOCATION
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- RW — RESCUE WINDOW
- ALTERATION LEVEL 1 WORK AREA
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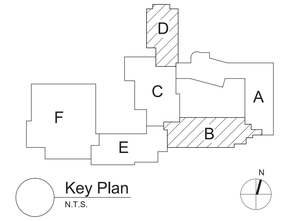

Key Plan
N.T.S.

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

Rev. No.:	Date:	Description:

BEACON CITY SCHOOL DISTRICT — WHERE EXCELLENCE IS THE STANDARD

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

BID SET

TETRA TECH ARCHITECTS & ENGINEERS

Beacon City School District
Beacon, New York

Reconstruction to:
Rombout Middle School

Code Compliance Second Floor Key Plan

Drawn By:	Date:	Drawing Number:
TLG	10/28/2022	EG352
Project No.: 279180-22004		

ASBESTOS ABATEMENT NOTES

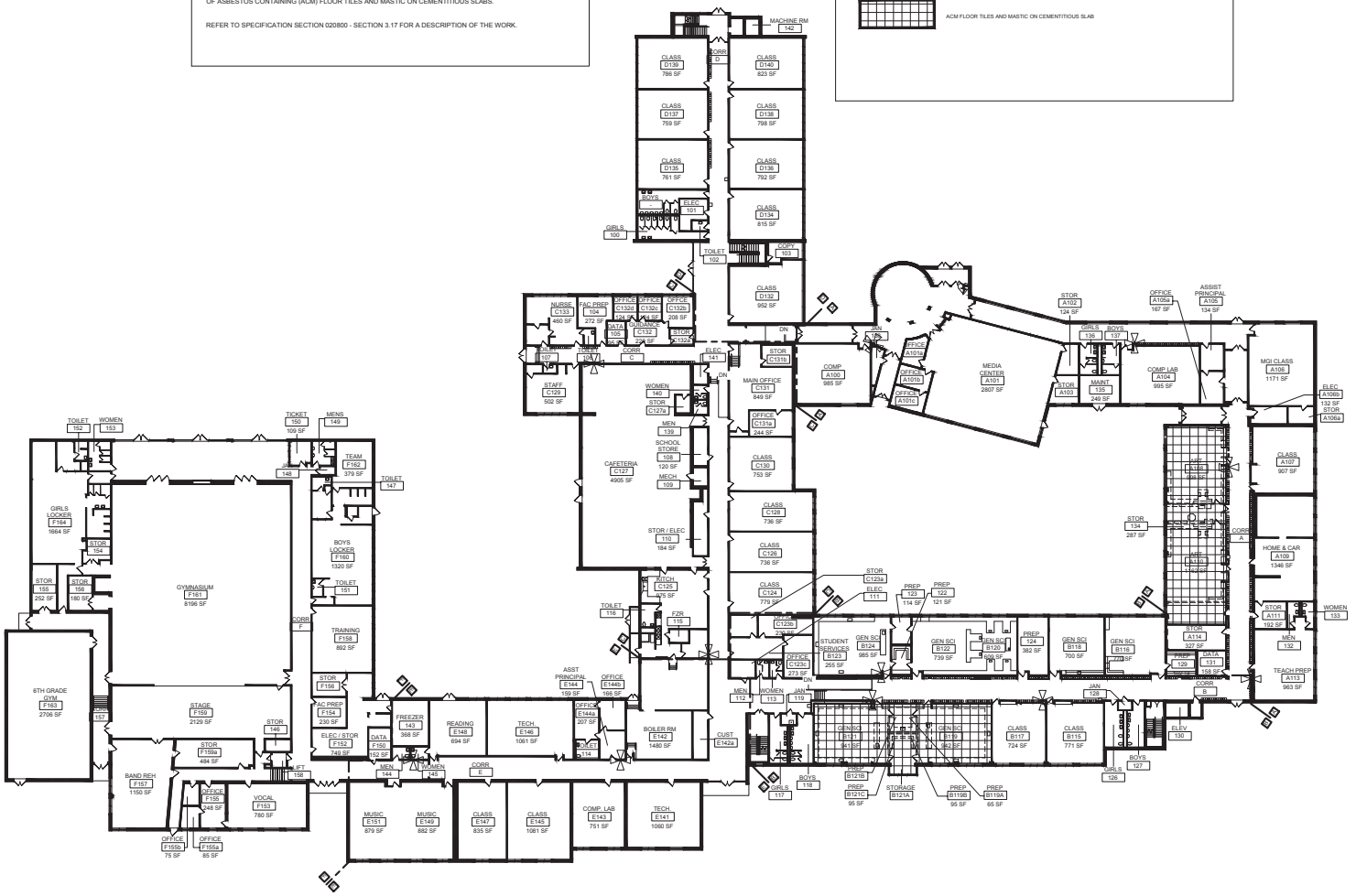
ASBESTOS ABATEMENT CONTRACTOR IS RESPONSIBLE FOR TOTAL AND COMPLETE REMOVAL AND DISPOSAL OF ASBESTOS CONTAINING (ACM) FLOOR TILES AT LOCATIONS INDICATED.

ASBESTOS ABATEMENT CONTRACTOR IS RESPONSIBLE FOR TOTAL AND COMPLETE REMOVAL AND DISPOSAL OF ASBESTOS CONTAINING (ACM) FLOOR TILES AND MASTIC ON CEMENTITIOUS SLABS.

REFER TO SPECIFICATION SECTION 020800 - SECTION 3.17 FOR A DESCRIPTION OF THE WORK.

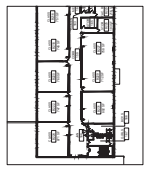
ASBESTOS ABATEMENT LEGEND

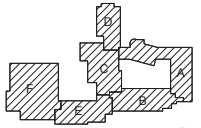
ACM FLOOR TILES AND MASTIC ON CEMENTITIOUS SLAB



ROMBOUT ELEMENTARY - FIRST FLOOR ABATEMENT PLAN

QUALITY ENVIRONMENTAL SOLUTIONS & TECHNOLOGIES, INC.
1376 NY'S ROUTE 9
WAPPINGERS FALLS, NY 12590
TEL. : (845) 298-6031





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

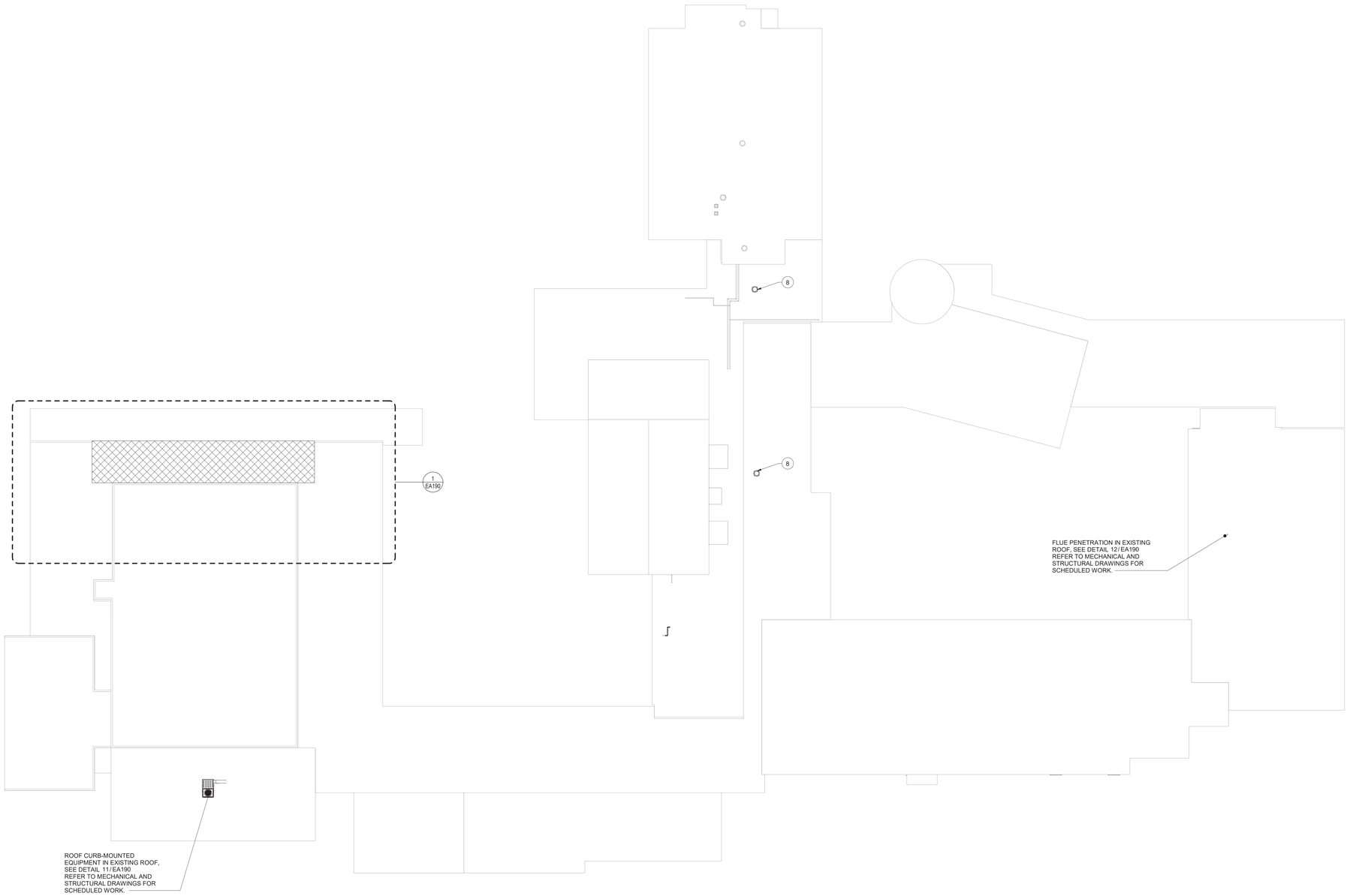
Rev. No.:	Date:	Description:
1	9-13-22	100% SED Submittal

Beacon City School District
Beacon, New York

Reconstruction to:
Rombout Middle School

Asbestos Abatement

Drawn By:	Date:	Drawing Number:
TTAE	10/28/2022	EH100
Project No.: 279180-22004		



1 Roof - Key Plan
3/64" = 1'-0"

General Notes

A. DO NOT SCALE DRAWINGS TO OBTAIN DIMENSIONS.

B. TAKE FIELD MEASUREMENTS TO FIT THE WORK PROPERLY. VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS IN THE FIELD.

C. REFER INCONSISTENCIES TO ARCHITECT PRIOR TO COMMENCING THE WORK IN AFFECTED AREA.

D. ITEMS ARE SHOWN DIAGRAMMATICALLY ON DRAWINGS. VERIFY SPACE REQUIREMENTS AND DIMENSIONS TO FIT THE WORK PROPERLY.

E. NOTES SHOWN ON ONE DRAWING APPLY TO ALL SIMILAR DRAWINGS.

F. DO NOT DISTURB CONSTRUCTION SUSPECTED OF CONTAINING HAZARDOUS MATERIAL. IF ENCOUNTERED, IMMEDIATELY NOTIFY ARCHITECT, CONSTRUCTION MANAGER AND OWNER.

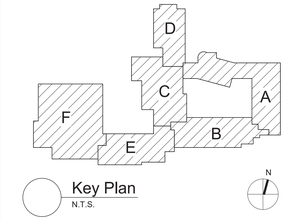
AREAS OF ROOF WORK

Roof Key Notes

1. PROVIDE ROOF DRAIN INSERT AT EXISTING ROOF DRAIN - SEE DETAIL 3/EA190.
2. TAPERED INSULATION CRICKET (TYP) SLOPE 1/2"/FT, TYP ALL SIDES. VERIFY LENGTH IN FIELD. WIDTH AS INDICATED ON PLAN AND TYPICAL AT ALL CURB PENETRATIONS.
3. REPLACE EXPANSION JOINT AT EXISTING LOCATION. HEIGHT AS REQUIRE TO ACCOMMODATE ROOF THICKNESS - SEE DETAIL 6/EA190 .
4. FLASH INTO EXISTING FULLY ADHERED EPDM ROOF SYSTEM TO COMPLY WITH ALL MANUFACTURE'S WARRANTY REQUIREMENTS - SEE DETAIL 4/EA190 SIMILAR.
5. MATCH TAPERED INSULATION HEIGHT AND TIE IN ROOF MEMBRANE.
6. ROOF VERTICAL TRANSITION DETAIL WITH FASCIA AT UPPER ROOF LEVEL APPROXIMATE HEIGHT INDICATED ON PLAN - SEE DETAIL 5/EA190.
7. PROVIDE BASE/COUNTER FLASHING BELOW EXISTING THROUGH-WALL FLASHING - SEE DETAIL 7/EA190.
8. PROVIDE ROOF OPENING AND INSTALL ROOF CURB FURNISHED BY MECHANICAL CONTRACTOR. SEE DETAIL 11/EA190

EXISTING CONDITIONS:

1. TYPICAL AT ('F' WINGS) LOW ROOF AREAS - REFER TO PLAN TEST CUT LOCATIONS #1:
   - FULLY ADHERED EPDM MEMBRANE.
   - TAPERED POLYISOCYANURATE INSULATION – THICKNESS VARIES BETWEEN 3" TO 5" – MECHANICALLY ATTACHED.
   - TAR PAPER.
   - CORRUGATED METAL ROOF DECK – FLAT.



Key Plan
N.T.S.

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

Rev. No.:	Date:	Description:

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

BID SET

TETRA TECH
ARCHITECTS & ENGINEERS

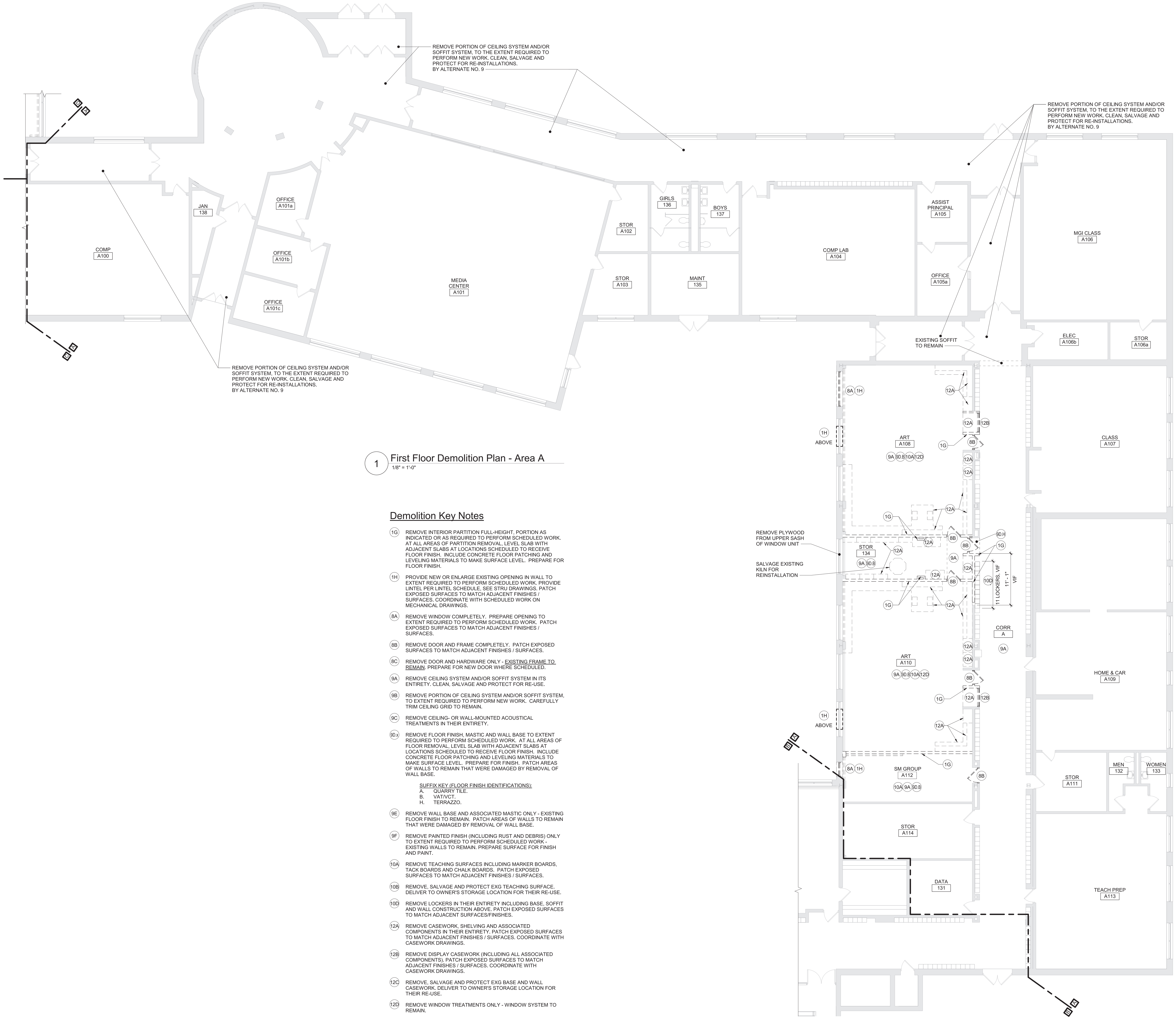
Beacon City School District
Beacon, New York

Reconstruction to:
Rombout Middle School

Roof Key Plan

Drawn By:	Date:	Drawing Number:
TLG	10/28/2022	EA050

Project No.:
279180-22004



1 First Floor Demolition Plan - Area A
1/8" = 1'-0"

Demolition Key Notes

- (1G) REMOVE INTERIOR PARTITION FULL-HEIGHT, PORTION AS INDICATED OR AS REQUIRED TO PERFORM SCHEDULED WORK. AT ALL AREAS OF PARTITION REMOVAL, LEVEL SLAB WITH ADJACENT SLABS AT LOCATIONS SCHEDULED TO RECEIVE FLOOR FINISH. INCLUDE CONCRETE FLOOR PATCHING AND LEVELING MATERIALS TO MAKE SURFACE LEVEL. PREPARE FOR FLOOR FINISH.
- (1H) PROVIDE NEW OR ENLARGE EXISTING OPENING IN WALL TO EXTENT REQUIRED TO PERFORM SCHEDULED WORK. PROVIDE LINTEL PER LINTEL SCHEDULE, SEE STRU DRAWINGS. PATCH EXPOSED SURFACES TO MATCH ADJACENT FINISHES / SURFACES. COORDINATE WITH SCHEDULED WORK ON MECHANICAL DRAWINGS.
- (8A) REMOVE WINDOW COMPLETELY. PREPARE OPENING TO EXTENT REQUIRED TO PERFORM SCHEDULED WORK. PATCH EXPOSED SURFACES TO MATCH ADJACENT FINISHES / SURFACES.
- (8B) REMOVE DOOR AND FRAME COMPLETELY. PATCH EXPOSED SURFACES TO MATCH ADJACENT FINISHES / SURFACES.
- (8C) REMOVE DOOR AND HARDWARE ONLY - EXISTING FRAME TO REMAIN. PREPARE FOR NEW DOOR WHERE SCHEDULED.
- (9A) REMOVE CEILING SYSTEM AND/OR SOFFIT SYSTEM IN ITS ENTIRETY. CLEAN, SALVAGE AND PROTECT FOR RE-USE.
- (9B) REMOVE PORTION OF CEILING SYSTEM AND/OR SOFFIT SYSTEM, TO EXTENT REQUIRED TO PERFORM NEW WORK. CAREFULLY TRIM CEILING GRID TO REMAIN.
- (9C) REMOVE CEILING- OR WALL-MOUNTED ACOUSTICAL TREATMENTS IN THEIR ENTIRETY.
- (9D.x) REMOVE FLOOR FINISH, MASTIC AND WALL BASE TO EXTENT REQUIRED TO PERFORM SCHEDULED WORK. AT ALL AREAS OF FLOOR REMOVAL, LEVEL SLAB WITH ADJACENT SLABS AT LOCATIONS SCHEDULED TO RECEIVE FLOOR FINISH. INCLUDE CONCRETE FLOOR PATCHING AND LEVELING MATERIALS TO MAKE SURFACE LEVEL. PREPARE FOR FINISH. PATCH AREAS OF WALLS TO REMAIN THAT WERE DAMAGED BY REMOVAL OF WALL BASE.

  SUFFIX KEY (FLOOR FINISH IDENTIFICATIONS):
  A. QUARRY TILE.
  B. VAT/VCT.
  H. TERRAZZO.
- (9E) REMOVE WALL BASE AND ASSOCIATED MASTIC ONLY - EXISTING FLOOR FINISH TO REMAIN. PATCH AREAS OF WALLS TO REMAIN THAT WERE DAMAGED BY REMOVAL OF WALL BASE.
- (9F) REMOVE PAINTED FINISH (INCLUDING RUST AND DEBRIS) ONLY TO EXTENT REQUIRED TO PERFORM SCHEDULED WORK - EXISTING WALLS TO REMAIN. PREPARE SURFACE FOR FINISH AND PAINT.
- (10A) REMOVE TEACHING SURFACES INCLUDING MARKER BOARDS, TACK BOARDS AND CHALK BOARDS. PATCH EXPOSED SURFACES TO MATCH ADJACENT FINISHES / SURFACES.
- (10B) REMOVE, SALVAGE AND PROTECT EXG TEACHING SURFACE. DELIVER TO OWNER'S STORAGE LOCATION FOR THEIR RE-USE.
- (10D) REMOVE LOCKERS IN THEIR ENTIRETY INCLUDING BASE, SOFFIT AND WALL CONSTRUCTION ABOVE. PATCH EXPOSED SURFACES TO MATCH ADJACENT SURFACES/FINISHES.
- (12A) REMOVE CASEWORK, SHELVING AND ASSOCIATED COMPONENTS IN THEIR ENTIRETY. PATCH EXPOSED SURFACES TO MATCH ADJACENT FINISHES / SURFACES. COORDINATE WITH CASEWORK DRAWINGS.
- (12B) REMOVE DISPLAY CASEWORK (INCLUDING ALL ASSOCIATED COMPONENTS). PATCH EXPOSED SURFACES TO MATCH ADJACENT FINISHES / SURFACES. COORDINATE WITH CASEWORK DRAWINGS.
- (12C) REMOVE, SALVAGE AND PROTECT EXG BASE AND WALL CASEWORK. DELIVER TO OWNER'S STORAGE LOCATION FOR THEIR RE-USE.
- (12D) REMOVE WINDOW TREATMENTS ONLY - WINDOW SYSTEM TO REMAIN.

General Demolition Notes

A. - - - - - REMOVE ITEMS INDICATED BY DASHED LINE.

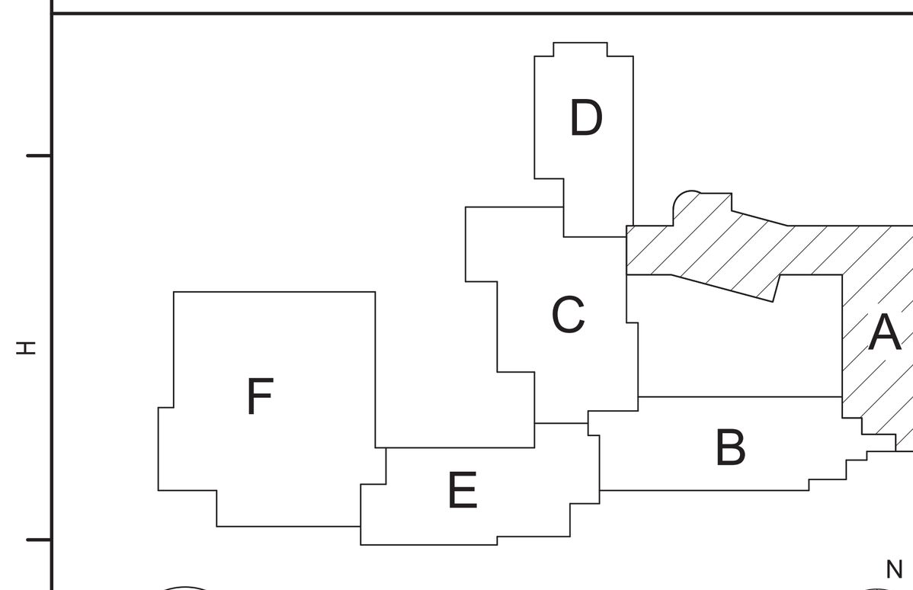
B. KEYED DEMOLITION TAGS REFER TO SPECIFIC LOCATIONS AS FOLLOWS:

1. DEMOLITION TAGS LOCATED WITHIN THE MIDDLE OF A SPACE REFER TO DEMOLITION OF ALL ITEMS OF THAT SAME TYPE WITHIN THAT ENTIRE SPACE.
2. DEMOLITION TAGS PLACED IMMEDIATELY ON OR ADJACENT TO A DASHED LINE INDICATING ITEM REMOVAL OR THAT HAVE A LEADER POINTING TO SPECIFIC ITEM(S) REFER TO DEMOLITION OF THAT SPECIFIC ITEM ONLY OF THAT TYPE WITHIN THAT SPACE.
3. DEMOLITION TAGS IN SERIES REFER TO DEMOLITION OF ALL THOSE ITEMS EITHER WITHIN THAT ENTIRE SPACE OR TO THE SPACE IDENTIFIED BY THAT LEADER.

C. WHEN AN ITEM IS INDICATED TO BE DEMOLISHED REMOVE ALL ASSOCIATED COMPONENTS AS PART OF THAT WORK.

D. ALL ARTWORK NOT PERMANENTLY AFFIXED TO EXISTING CONSTRUCTION SHALL BE REMOVED AND STORED BY OWNER PRIOR TO BEGINNING DEMOLITION WORK. CONTACT OWNER'S AGENT(S) IF ANY ARTWORK IS ENCOUNTERED PRIOR TO START OF DEMOLITION WORK.

E. EXISTING WINDOW-MOUNTED A/C UNITS SHALL BE REMOVED AND STORED BY OWNER PRIOR TO START OF DEMOLITION WORK.



Key Plan
N.T.S.

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

Rev. No.:	Date:	Description:

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

BID SET

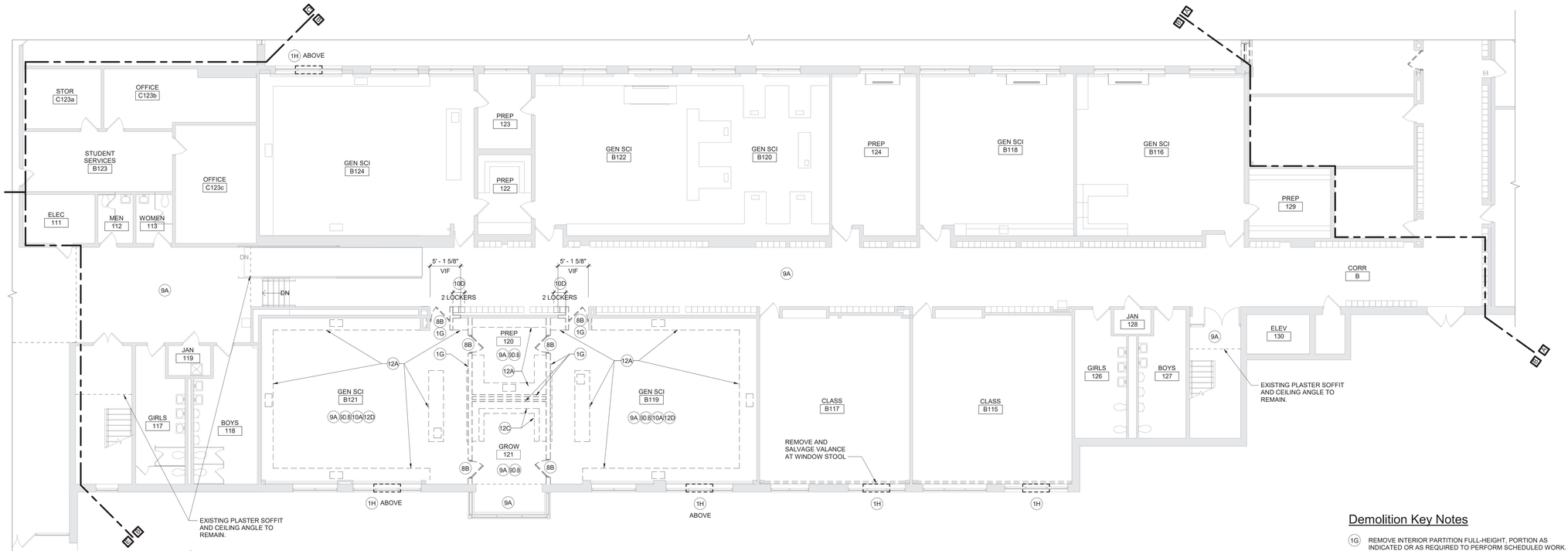
TETRA TECH ARCHITECTS & ENGINEERS

Beacon City School District
Beacon, New York

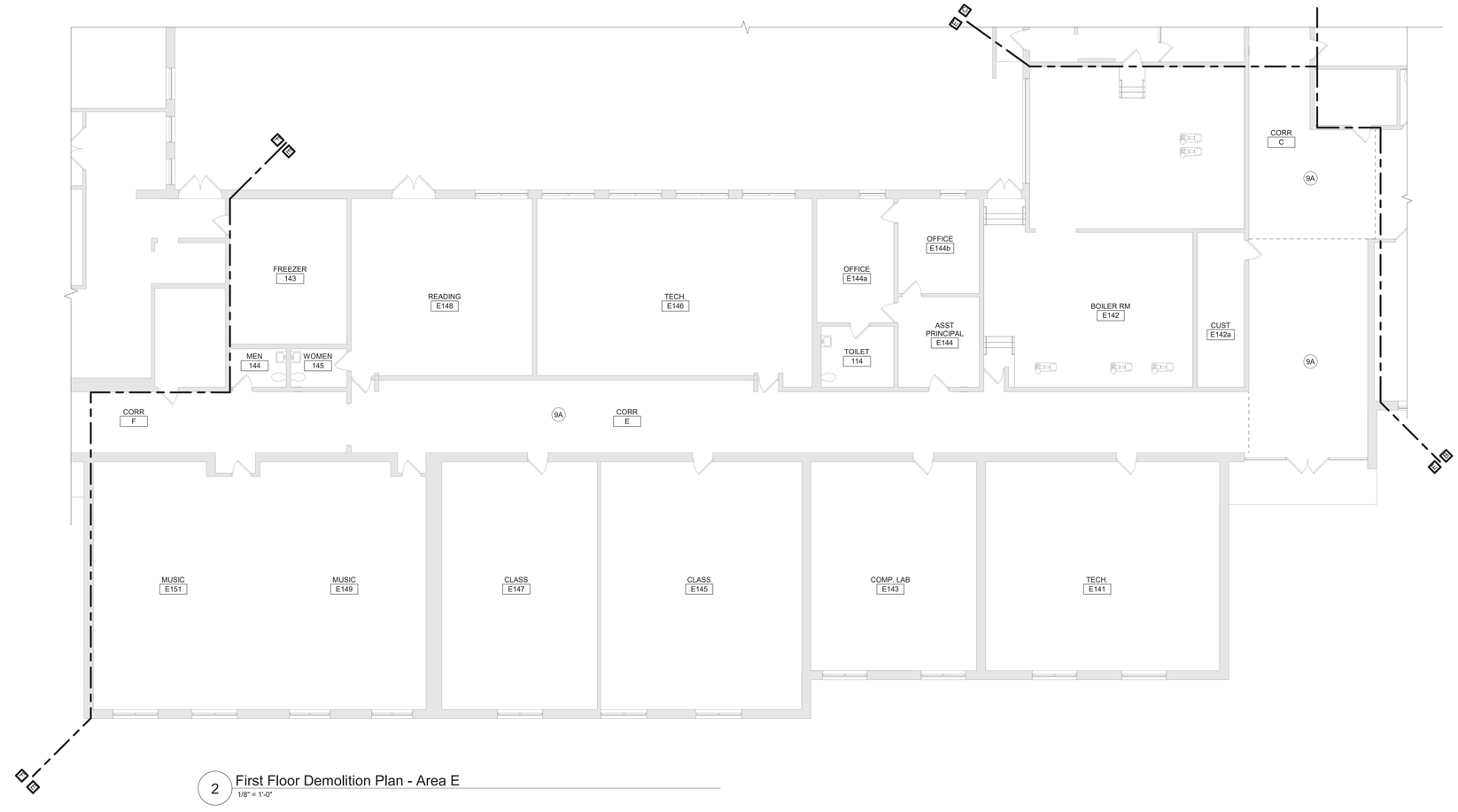
Reconstruction to:
Rombout Middle School

First Floor Demolition Plan - Area A

Drawn By:	Date:	Drawing Number:
TLG	10/28/2022	EA100
Project No.: 279180-22004		



1 First Floor Demolition Plan - Area B
1/8" = 1'-0"



2 First Floor Demolition Plan - Area E
1/8" = 1'-0"

General Demolition Notes

A. - - - - REMOVE ITEMS INDICATED BY DASHED LINE.

B. KEYED DEMOLITION TAGS REFER TO SPECIFIC LOCATIONS AS FOLLOWS:

1. DEMOLITION TAGS LOCATED WITHIN THE MIDDLE OF A SPACE REFER TO DEMOLITION OF ALL ITEMS OF THAT SAME TYPE WITHIN THAT ENTIRE SPACE.

2. DEMOLITION TAGS PLACED IMMEDIATELY ON OR ADJACENT TO A DASHED LINE INDICATING ITEM REMOVAL OR THAT HAVE A LEADER POINTING TO SPECIFIC ITEM(S) REFER TO DEMOLITION OF THAT SPECIFIC ITEM ONLY OF THAT TYPE WITHIN THAT SPACE.

3. DEMOLITION TAGS IN SERIES REFER TO DEMOLITION OF ALL THOSE ITEMS EITHER WITHIN THAT ENTIRE SPACE OR TO THE SPACE IDENTIFIED BY THAT LEADER.

C. WHEN AN ITEM IS INDICATED TO BE DEMOLISHED REMOVE ALL ASSOCIATED COMPONENTS AS PART OF THAT WORK.

D. ALL ARTWORK NOT PERMANENTLY AFFIXED TO EXISTING CONSTRUCTION SHALL BE REMOVED AND STORED BY OWNER PRIOR TO BEGINNING DEMOLITION WORK. CONTACT OWNER'S AGENT(S) IF ANY ARTWORK IS ENCOUNTERED PRIOR TO START OF DEMOLITION WORK.

E. EXISTING WINDOW-MOUNTED A/C UNITS SHALL BE REMOVED AND STORED BY OWNER PRIOR TO START OF DEMOLITION WORK.

Demolition Key Notes

1G REMOVE INTERIOR PARTITION FULL-HEIGHT, PORTION AS INDICATED OR AS REQUIRED TO PERFORM SCHEDULED WORK. AT ALL AREAS OF PARTITION REMOVAL, LEVEL SLAB WITH ADJACENT SLABS AT LOCATIONS SCHEDULED TO RECEIVE FLOOR FINISH. INCLUDE CONCRETE FLOOR PATCHING AND LEVELING MATERIALS TO MAKE SURFACE LEVEL. PREPARE FOR FLOOR FINISH.

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8A REMOVE WINDOW COMPLETELY. PREPARE OPENING TO EXTENT REQUIRED TO PERFORM SCHEDULED WORK. PATCH EXPOSED SURFACES TO MATCH ADJACENT FINISHES / SURFACES.

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9A REMOVE CEILING SYSTEM AND/OR SOFFIT SYSTEM IN ITS ENTIRETY. CLEAN, SALVAGE AND PROTECT FOR RE-USE.

9B REMOVE PORTION OF CEILING SYSTEM AND/OR SOFFIT SYSTEM TO EXTENT REQUIRED TO PERFORM NEW WORK. CAREFULLY TRIM CEILING GRID TO REMAIN.

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SUFFIX KEY (FLOOR FINISH IDENTIFICATIONS):
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B. VAT/VCT.
H. TERRAZZO.

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10D REMOVE LOCKERS IN THEIR ENTIRETY INCLUDING BASE, SOFFIT AND WALL CONSTRUCTION ABOVE. PATCH EXPOSED SURFACES TO MATCH ADJACENT SURFACES/FINISHES.

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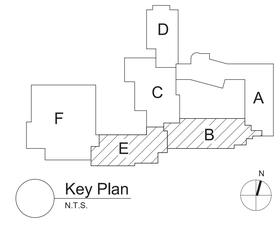
12D REMOVE WINDOW TREATMENTS ONLY - WINDOW SYSTEM TO REMAIN.



Key Plan
N.T.S.

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

Rev. No.:	Date:	Description:

BEACON CITY SCHOOL DISTRICT — WHERE EXCELLENCE IS THE STANDARD

complex world | CLEAR SOLUTIONS

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

BID SET

TETRA TECH ARCHITECTS & ENGINEERS

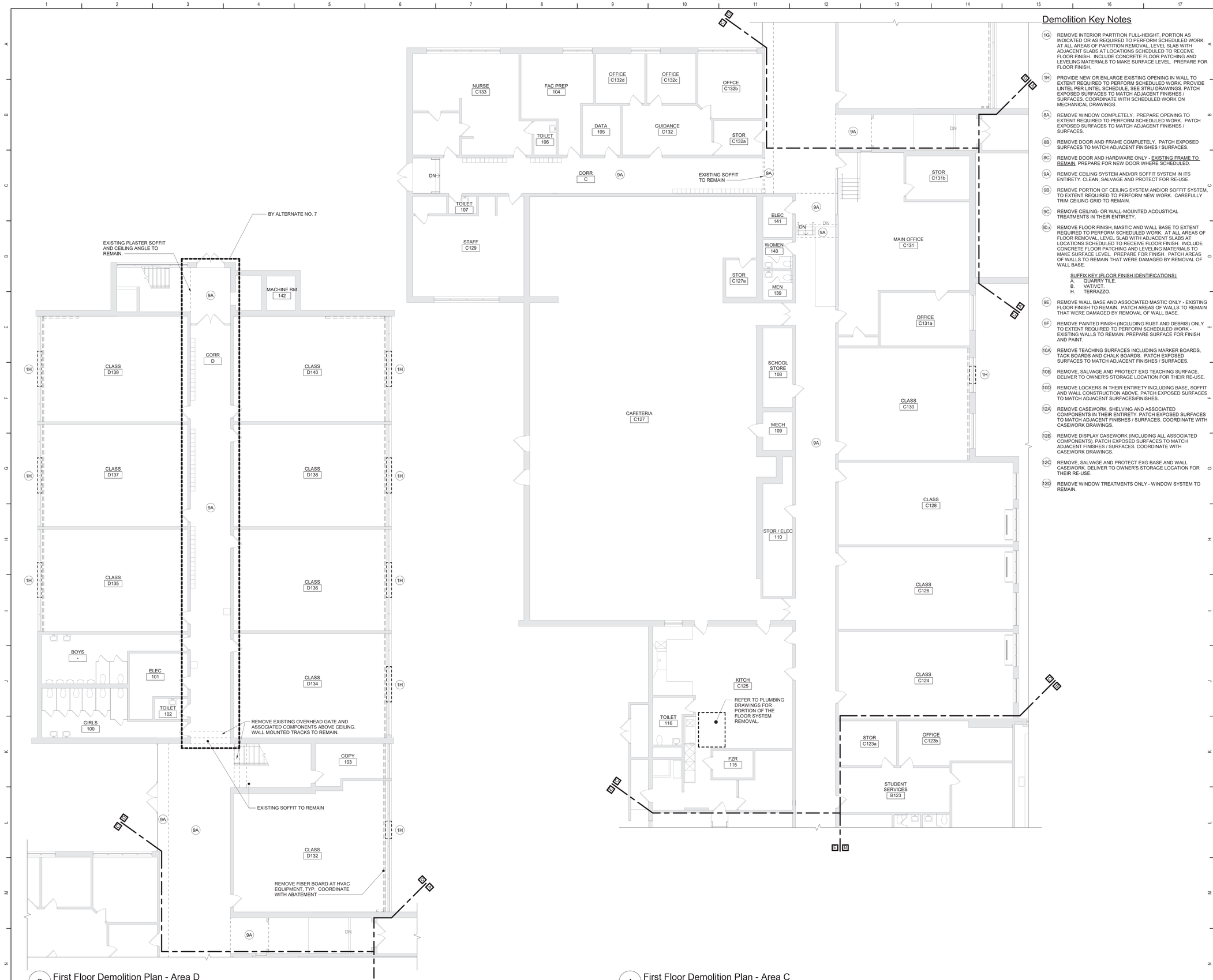
Beacon City School District
Beacon, New York

Reconstruction to:
Rombout Middle School

First Floor Demolition Plan - Area B and E

Drawn By:	Date:	Drawing Number:
TLG	10/28/2022	EA101

Project No.: 279180-22004



Demolition Key Notes

- 1G REMOVE INTERIOR PARTITION FULL-HEIGHT, PORTION AS INDICATED OR AS REQUIRED TO PERFORM SCHEDULED WORK. AT ALL AREAS OF PARTITION REMOVAL, LEVEL SLAB WITH ADJACENT SLABS AT LOCATIONS SCHEDULED TO RECEIVE FLOOR FINISH. INCLUDE CONCRETE FLOOR PATCHING AND LEVELING MATERIALS TO MAKE SURFACE LEVEL. PREPARE FOR FLOOR FINISH.
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General Demolition Notes

A. - - - - REMOVE ITEMS INDICATED BY DASHED LINE.

B. KEYED DEMOLITION TAGS REFER TO SPECIFIC LOCATIONS AS FOLLOWS:

1. DEMOLITION TAGS LOCATED WITHIN THE MIDDLE OF A SPACE REFER TO DEMOLITION OF ALL ITEMS OF THAT SAME TYPE WITHIN THAT ENTIRE SPACE.
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D. ALL ARTWORK NOT PERMANENTLY AFFIXED TO EXISTING CONSTRUCTION SHALL BE REMOVED AND STORED BY OWNER PRIOR TO BEGINNING DEMOLITION WORK. CONTACT OWNER'S AGENT(S) IF ANY ARTWORK IS ENCOUNTERED PRIOR TO START OF DEMOLITION WORK.

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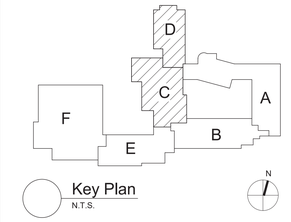

S.E.D. Control No. 13-02-00-01-0-004-023

Rev. No.:	Date:	Description:

BEACON CITY SCHOOL DISTRICT — WHERE EXCELLENCE IS THE STANDARD

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

BID SET

TETRA TECH ARCHITECTS & ENGINEERS

Beacon City School District
Beacon, New York

Reconstruction to:
Rombout Middle School

First Floor Demolition Plan - Area C and D

Drawn By:	Date:	Drawing Number:
TLG	10/28/2022	EA102
Project No.: 279180-22004		

1 First Floor Demolition Plan - Area C
1/8" = 1'-0"

2 First Floor Demolition Plan - Area D
1/8" = 1'-0"

1 First Floor Demolition Plan - Area F
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Demolition Key Notes

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Key Plan
N.T.S.

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

Rev. No.:	Date:	Description:

BEACON CITY SCHOOL DISTRICT WHERE EXCELLENCE IS THE STANDARD

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

BID SET

TETRA TECH
ARCHITECTS & ENGINEERS

Beacon City School District
Beacon, New York

Reconstruction to:
Rombout Middle School

First Floor Demolition Plan - Area F

Drawn By:	Date:	Drawing Number:
TLG	10/28/2022	EA103

Project No.:
279180-22004

1 Second Floor Demolition Plan - Area B - By Alteranate No. 10
1/8" = 1'-0"

2 Second Floor Demolition Plan - Area D - - By Alternate No. 7
1/8" = 1'-0"

Demolition Key Notes

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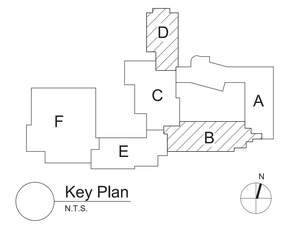

Key Plan
N.T.S.

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

Rev. No.:	Date:	Description:

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

BID SET

TETRA TECH
ARCHITECTS & ENGINEERS

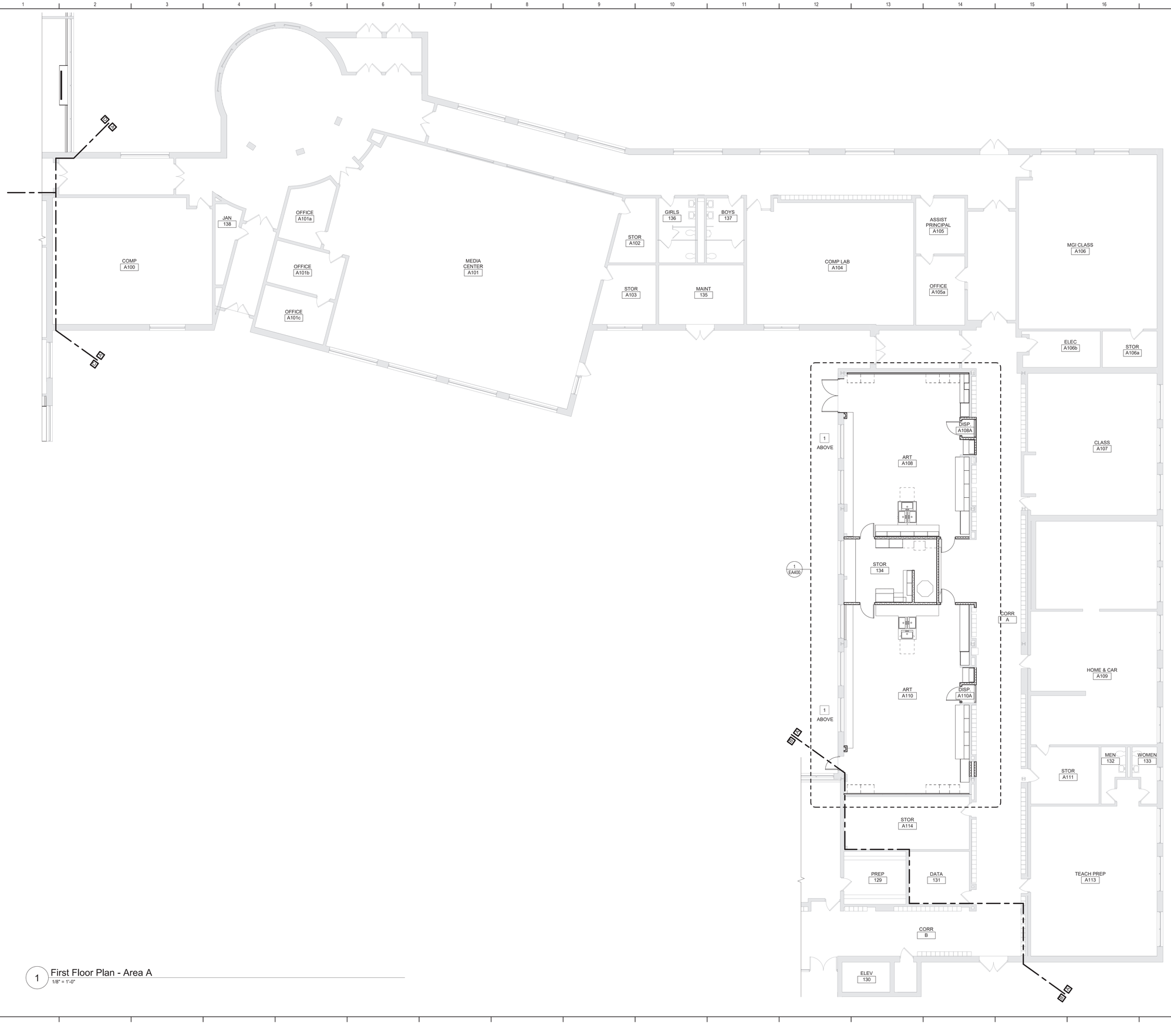
Beacon City School District
Beacon, New York

Reconstruction to:
Rombout Middle School

Second Floor Demolition Plan - Area B and D

Drawn By:	Date:	Drawing Number:
TLG	10/28/2022	EA104

Project No.: 279180-22004



1 First Floor Plan - Area A
1/8" = 1'-0"

General Plan Notes

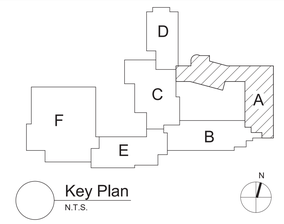
A. WHERE EXISTING CONSTRUCTION IS DAMAGED OR DISTURBED, PATCH AS REQUIRED TO RESTORE SURFACES TO THEIR ORIGINAL CONDITION.

B. PARTITION TYPE TAGS APPLY TO ENTIRE LENGTH OF WALL INDICATED BY THAT TAG, REGARDLESS OF OPENINGS WITHIN THAT WALL, TYPICAL UNLESS NOTED OTHERWISE.

1. ALL EXTERIOR WALLS SHALL BE WALL/PARTITION TYPE EW4, TYPICAL UNLESS NOTED OTHERWISE.
2. ALL INTERIOR WALLS SHALL BE WALL/PARTITION TYPE P12.3, TYPICAL UNLESS NOTED OTHERWISE.

Keyed Plan Notes

1 INSTALL LOUVER FURNISHED BY OTHERS AT NEW OPENING. COORDINATE WITH MECHANICAL DRAWINGS.



Key Plan
N.T.S.

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

Rev. No.:	Date:	Description:

BEACON CITY SCHOOL DISTRICT — WHERE EXCELLENCE IS THE STANDARD

complex world | CLEAR SOLUTIONS

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

BID SET

TETRA TECH
ARCHITECTS & ENGINEERS

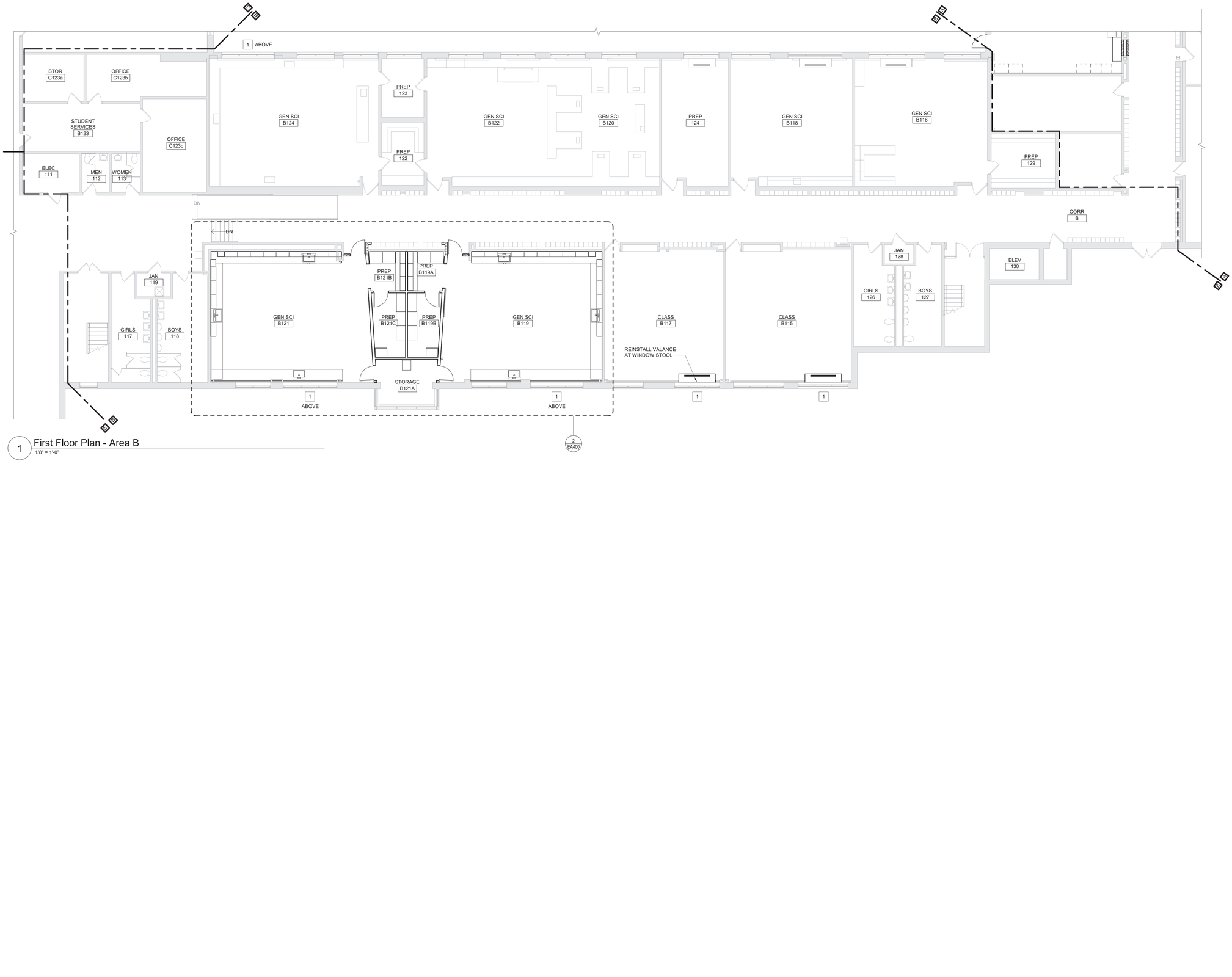
Beacon City School District
Beacon, New York

Reconstruction to:
Rombout Middle School

First Floor Plan - Area A

Drawn By:	Date:	Drawing Number:
TLG	10/28/2022	EA130

Project No.:
279180-22004



1 First Floor Plan - Area B
1/8" = 1'-0"

General Plan Notes

A. WHERE EXISTING CONSTRUCTION IS DAMAGED OR DISTURBED, PATCH AS REQUIRED TO RESTORE SURFACES TO THEIR ORIGINAL CONDITION.

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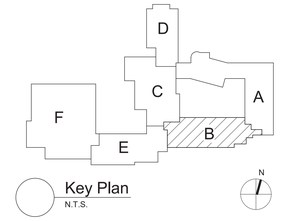
Keyed Plan Notes

1 INSTALL LOUVER FURNISHED BY OTHERS AT NEW OPENING. COORDINATE WITH MECHANICAL DRAWINGS.



Key Plan
N.T.S.

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

Rev. No.:	Date:	Description:

BEACON CITY SCHOOL DISTRICT WHERE EXCELLENCE IS THE STANDARD

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

BID SET

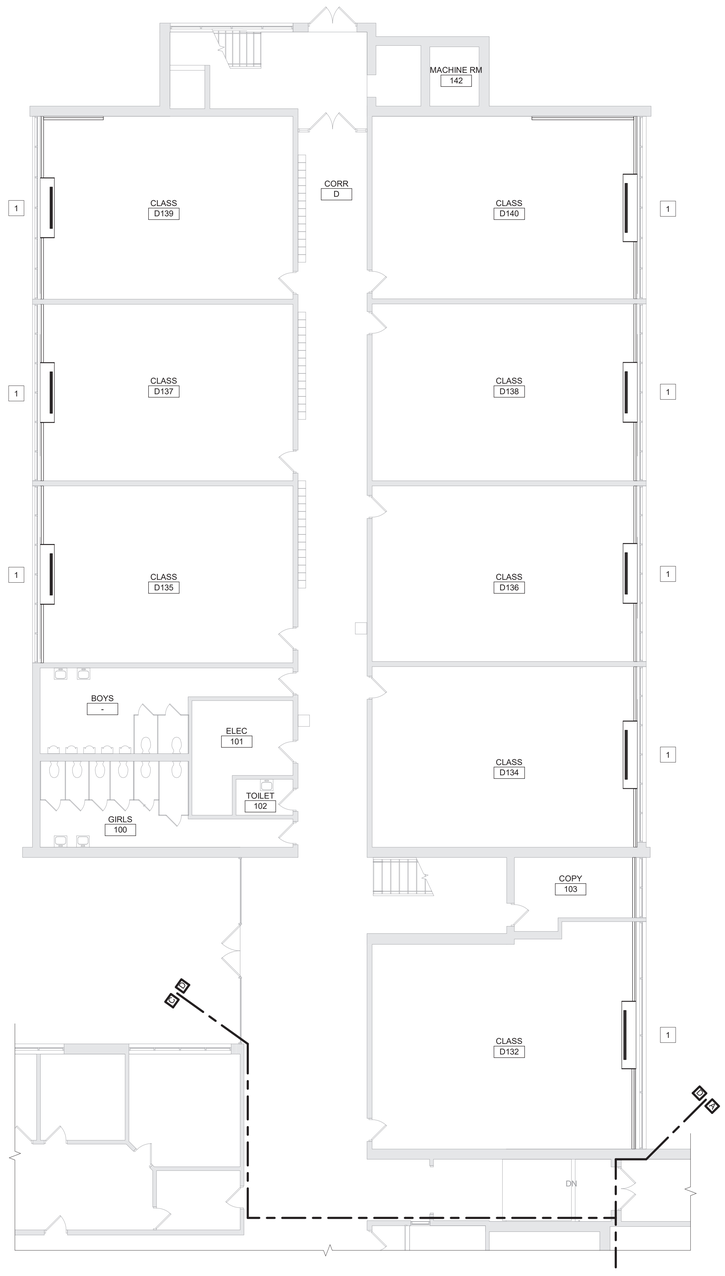
TETRA TECH ARCHITECTS & ENGINEERS

Beacon City School District
Beacon, New York

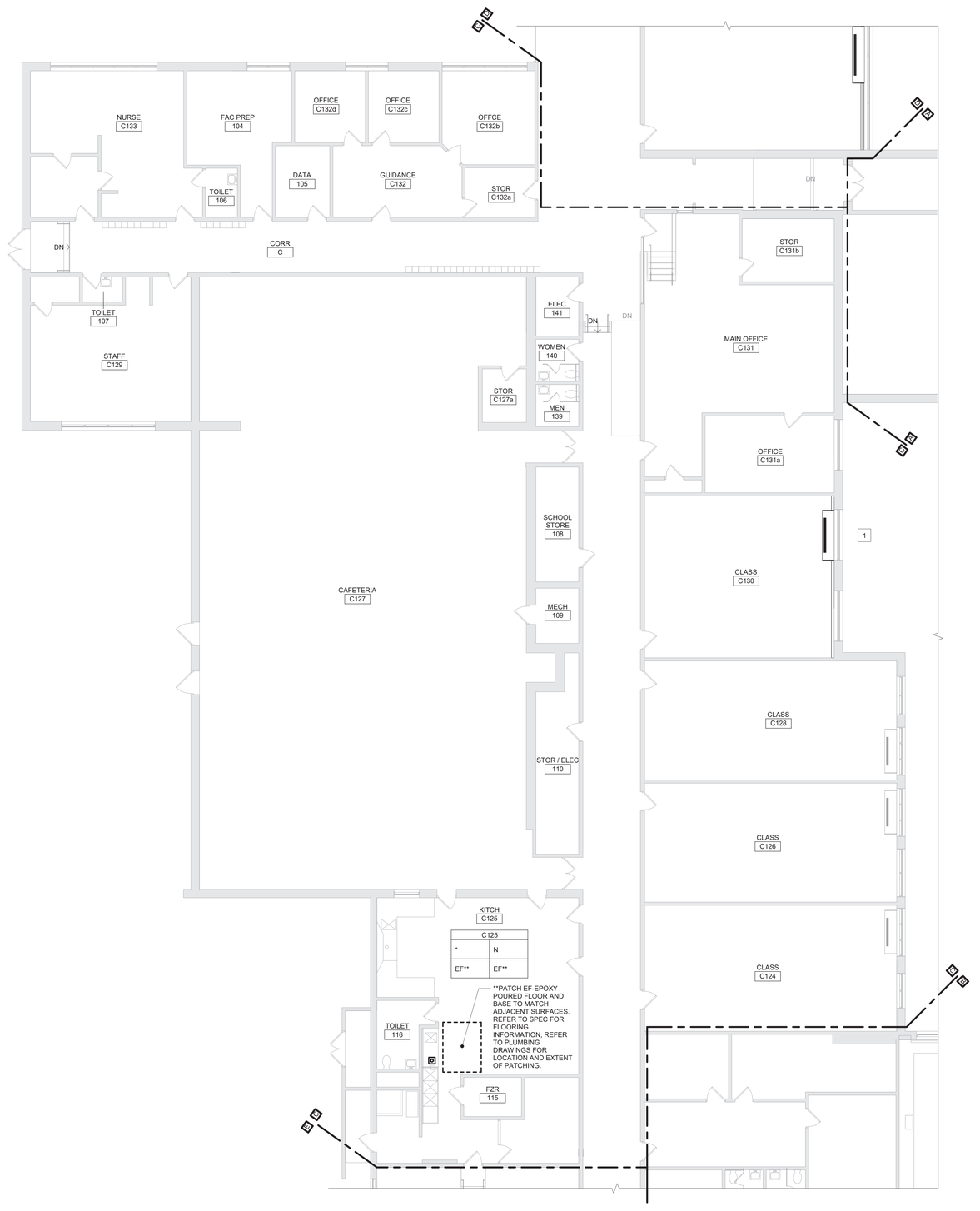
Reconstruction to:
Rombout Middle School

First Floor Plan - Area B

Drawn By:	Date:	Drawing Number:
TLG	10/28/2022	EA131
Project No.: 279180-22004		



2 First Floor Plan - Area D
1/8" = 1'-0"



1 First Floor Plan - Area C
1/8" = 1'-0"

General Plan Notes

A. WHERE EXISTING CONSTRUCTION IS DAMAGED OR DISTURBED, PATCH AS REQUIRED TO RESTORE SURFACES TO THEIR ORIGINAL CONDITION.

B. PARTITION TYPE TAGS APPLY TO ENTIRE LENGTH OF WALL INDICATED BY THAT TAG, REGARDLESS OF OPENINGS WITHIN THAT WALL, TYPICAL UNLESS NOTED OTHERWISE.

1. ALL EXTERIOR WALLS SHALL BE WALL/PARTITION TYPE EW4, TYPICAL UNLESS NOTED OTHERWISE.

2. ALL INTERIOR WALLS SHALL BE WALL/PARTITION TYPE P12.3, TYPICAL UNLESS NOTED OTHERWISE.

Keyed Plan Notes

1 INSTALL LOUVER FURNISHED BY OTHERS AT NEW OPENING. COORDINATE WITH MECHANICAL DRAWINGS.

Room Finish Key

EF	EPOXY FLOORING - POURED
RF	RESINOUS FLOORING - EPOXY
LVT	LUXURY VINYL TILE
MCS	MOISTURE CONTROL SYSTEM
N	NO WORK REQUIRED
P	PAINT SURFACE(S) INCLUDING SOFFITS
RB	RUBBER BASE
T1	TERRAZZO - TYPE 1 - POURED EPOXY
TB	TERRAZZO BASE - PRECAST
VCT1	VINYL COMPOSITION TILE - TYPE 1

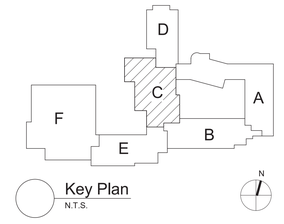
* SEE REFLECTED CEILING PLAN

INDICATED CHANGE IN FLOOR FINISH

NOTE: ALL FINISHES LISTED MAY NOT BE REQUIRED FOR THIS PROJECT

FINISHES SHOWN IN ROOM FINISH BOX ARE FOR ALL WALLS AND ENTIRE FLOOR AND CEILING REFER TO EACH ROOM FOR MORE INFORMATION.

RM#	
CLG*	WALL
FLR	BASE



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

Rev. No.:	Date:	Description:

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BID SET

TETRA TECH
ARCHITECTS & ENGINEERS

Beacon City School District
Beacon, New York

Reconstruction to:
Rombout Middle School

First Floor Plan - Area C and D

Drawn By:	Date:	Drawing Number:
TLG	10/28/2022	EA132

Project No.: 279180-22004

1 First Floor Plan - Area F
1/8" = 1'-0"

General Plan Notes

A. WHERE EXISTING CONSTRUCTION IS DAMAGED OR DISTURBED, PATCH AS REQUIRED TO RESTORE SURFACES TO THEIR ORIGINAL CONDITION.

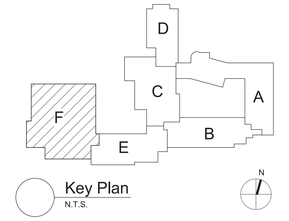
B. PARTITION TYPE TAGS APPLY TO ENTIRE LENGTH OF WALL INDICATED BY THAT TAG, REGARDLESS OF OPENINGS WITHIN THAT WALL, TYPICAL UNLESS NOTED OTHERWISE.

1. ALL EXTERIOR WALLS SHALL BE WALL/PARTITION TYPE EW4, TYPICAL UNLESS NOTED OTHERWISE.

2. ALL INTERIOR WALLS SHALL BE WALL/PARTITION TYPE P12.3, TYPICAL UNLESS NOTED OTHERWISE.

Keyed Plan Notes

1 INSTALL LOUVER FURNISHED BY OTHERS AT NEW OPENING. COORDINATE WITH MECHANICAL DRAWINGS.



Key Plan
N.T.S.

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

Rev. No.:	Date:	Description:

BEACON CITY SCHOOL DISTRICT WHERE EXCELLENCE IS THE STANDARD

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TETRA TECH ARCHITECTS & ENGINEERS

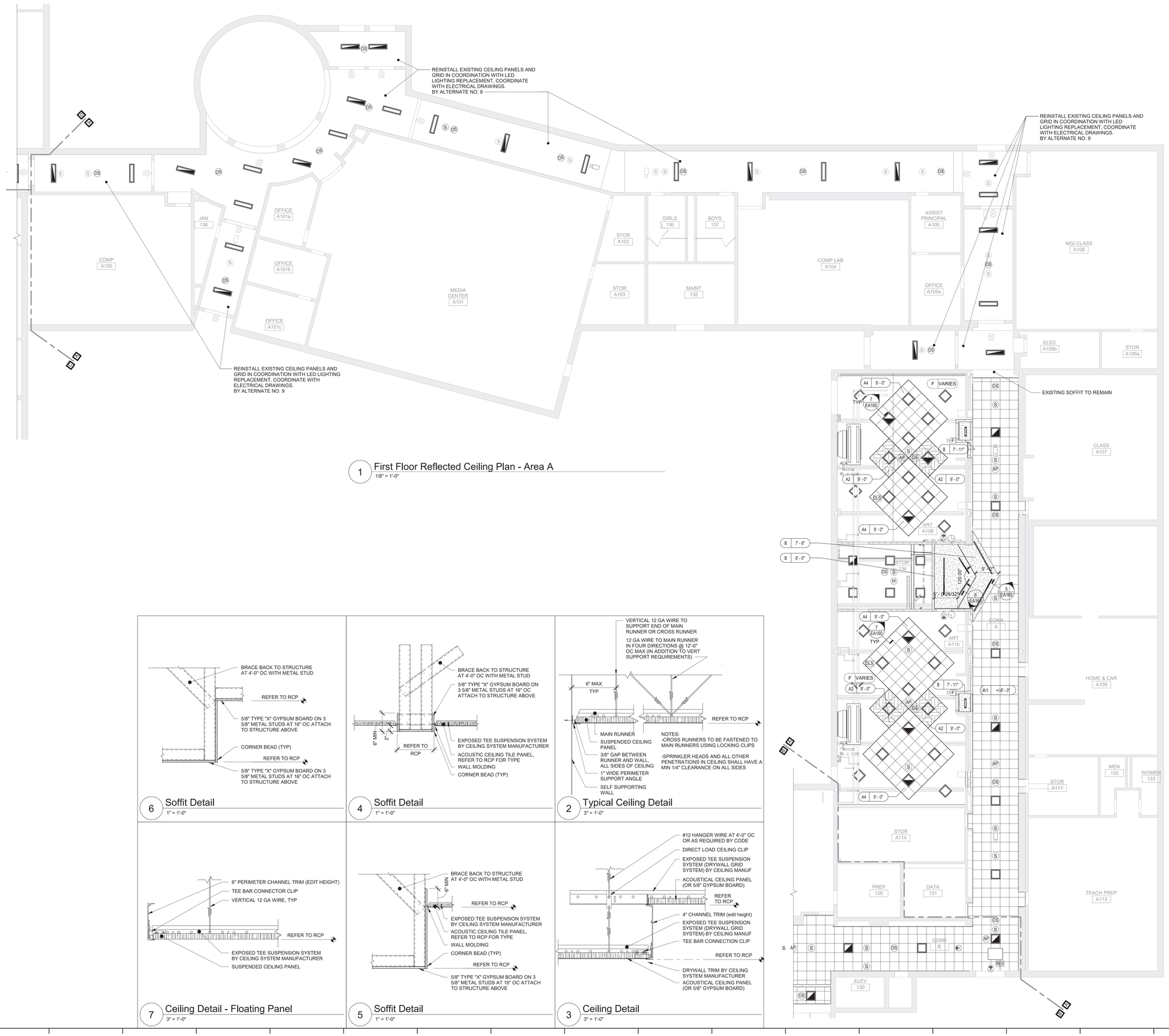
Beacon City School District
Beacon, New York

Reconstruction to:
Rombout Middle School

First Floor Plan - Area F

Drawn By:	Date:	Drawing Number:
TLG	10/28/2022	EA133

Project No.:
279180-22004



1 First Floor Reflected Ceiling Plan - Area A
1/8" = 1'-0"

General Ceiling Notes

A. LIGHTING AND OTHER CEILING-MOUNTED FIXTURES ARE SHOWN FOR DRAWING CLARITY. COORDINATE ALL CEILING WORK PRIOR TO INSTALLATION OF CEILING GRID.

B. CEILING HEIGHT IS 9'-0" ABOVE FINISHED FLOOR (UNO).

C. CENTER CEILING-MOUNTED ITEMS (LIGHTS, GRILLES, DETECTORS, SPRINKLER HEAD, ETC) WITHIN THE CEILING PANELS AND GRIDS UNLESS THE PANELS ARE SCORED. CENTER ITEMS WITHIN THE PATTERN OF SCORED PANELS.

D. PROVIDE EXPANSION JOINT (EJ) COVERS IN CEILINGS AND SOFFITS AT EJ LOCATIONS.

E. PROVIDE CONTROL JOINTS IN GYPSUM BOARD CEILINGS AND SOFFITS AS DETAILED ON DRAWINGS (MAXIMUM 20'-0" OC, EVENLY SPACED, TYP UNO).

F. PATCH CEILING SYSTEMS TO REMAIN THAT HAVE BEEN DISTURBED BY SCHEDULED WORK TO MATCH ADJACENT CONSTRUCTION PRIOR TO PAINTING.

G. (X 9'-0") DESIGNATES BOTTOM OF CEILING ABOVE FINISHED FLOOR AT THAT POINT UNO. DESIGNATION "ME" INDICATES MATCH EXISTING CEILING HEIGHT.

H. AT ALL LOCATIONS OF GYPSUM CEILINGS - PROVIDE 24" X 24" CONCEALED FLANGE ACCESS DOOR REGARDLESS OF LOCATION OR REQUIREMENT FOR ACCESS TO EQUIPMENT.

Ceiling Types

A1 X'-X"	ACOUSTIC PANEL CEILING
A2 X'-X"	ACOUSTIC PANEL CEILING
A4 X'-X"	ACOUSTIC PANEL CEILING
B X'-X"	PAINTED 1/2" GYPSUM CEILING ON SUPPORT MATERIALS (GRID SUSPENSION SYSTEM, TYP UNO)
F X'-X"	PAINTED EXPOSED STRUCTURAL SYSTEM, SUPPORT MATERIALS AND FASTENERS, MECHANICAL SYSTEM, ELECTRICAL ITEMS AND PIPING

NOTE: AT AREAS WITH "+/-", THE INTENT IS TO MATCH EXISTING, VERIFY IN FIELD.

AREA OF A2 CEILING TYPE

6 Soffit Detail
1" = 1'-0"

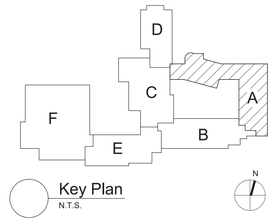
4 Soffit Detail
1" = 1'-0"

2 Typical Ceiling Detail
3" = 1'-0"

7 Ceiling Detail - Floating Panel
3" = 1'-0"

5 Soffit Detail
1" = 1'-0"

3 Ceiling Detail
3" = 1'-0"



Key Plan
N.T.S.

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

Rev. No.:	Date:	Description:

BEACON CITY SCHOOL DISTRICT WHERE EXCELLENCE IS THE STANDARD

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TETRA TECH ARCHITECTS & ENGINEERS

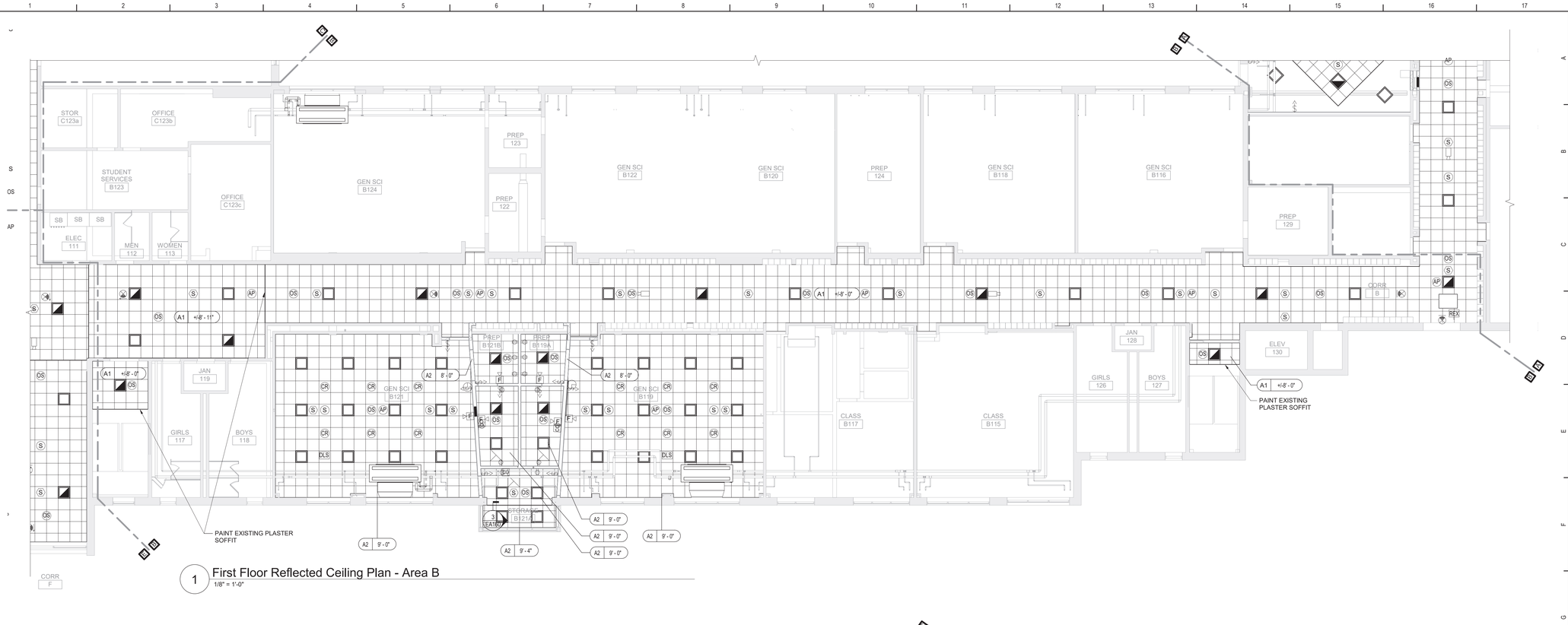
Beacon City School District
Beacon, New York

Reconstruction to:
Rombout Middle School

First Floor Reflected Ceiling Plan - Area A

Drawn By:	Date:	Drawing Number:
TTAE	10/28/2022	EA160

Project No.: 279180-22004



1 First Floor Reflected Ceiling Plan - Area B
1/8" = 1'-0"

2 First Floor Reflected Ceiling Plan - Area E
1/8" = 1'-0"

General Ceiling Notes

A. LIGHTING AND OTHER CEILING-MOUNTED FIXTURES ARE SHOWN FOR DRAWING CLARITY. COORDINATE ALL CEILING WORK PRIOR TO INSTALLATION OF CEILING GRID.

B. CEILING HEIGHT IS 9'-0" ABOVE FINISHED FLOOR (UNO).

C. CENTER CEILING-MOUNTED ITEMS (LIGHTS, GRILLES, DETECTORS, SPRINKLER HEAD, ETC) WITHIN THE CEILING PANELS AND GRIDS UNLESS THE PANELS ARE SCORED. CENTER ITEMS WITHIN THE PATTERN OF SCORED PANELS.

D. PROVIDE EXPANSION JOINT (EJ) COVERS IN CEILINGS AND SOFFITS AT EJ LOCATIONS.

E. PROVIDE CONTROL JOINTS IN GYPSUM BOARD CEILINGS AND SOFFITS AS DETAILED ON DRAWINGS (MAXIMUM 20'-0" OC, EVENLY SPACED, TYP UNO).

F. PATCH CEILING SYSTEMS TO REMAIN THAT HAVE BEEN DISTURBED BY SCHEDULED WORK TO MATCH ADJACENT CONSTRUCTION PRIOR TO PAINTING.

G. (X) 9'-0" DESIGNATES BOTTOM OF CEILING ABOVE FINISHED FLOOR AT THAT POINT UNO. DESIGNATION "ME" INDICATES MATCH EXISTING CEILING HEIGHT.

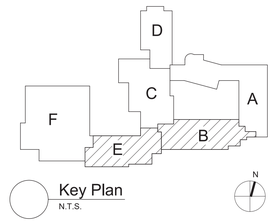
H. AT ALL LOCATIONS OF GYPSUM CEILINGS - PROVIDE 24" X 24" CONCEALED FLANGE ACCESS DOOR REGARDLESS OF LOCATION OR REQUIREMENT FOR ACCESS TO EQUIPMENT.

Ceiling Types

A1	X'-X"	ACOUSTIC PANEL CEILING
A2	X'-X"	ACOUSTIC PANEL CEILING
A4	X'-X"	ACOUSTIC PANEL CEILING
B	X'-X"	PAINTED 1/2" GYPSUM CEILING ON SUPPORT MATERIALS (GRID SUSPENSION SYSTEM, TYP UNO)
F	X'-X"	PAINTED EXPOSED STRUCTURAL SYSTEM, SUPPORT MATERIALS AND FASTENERS, MECHANICAL SYSTEM, ELECTRICAL ITEMS AND PIPING

NOTE: AT AREAS WITH "+/-", THE INTENT IS TO MATCH EXISTING, VERIFY IN FIELD.

AREA OF A2 CEILING TYPE



Key Plan
N.T.S.

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

Rev. No.:	Date:	Description:

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TETRA TECH
ARCHITECTS & ENGINEERS

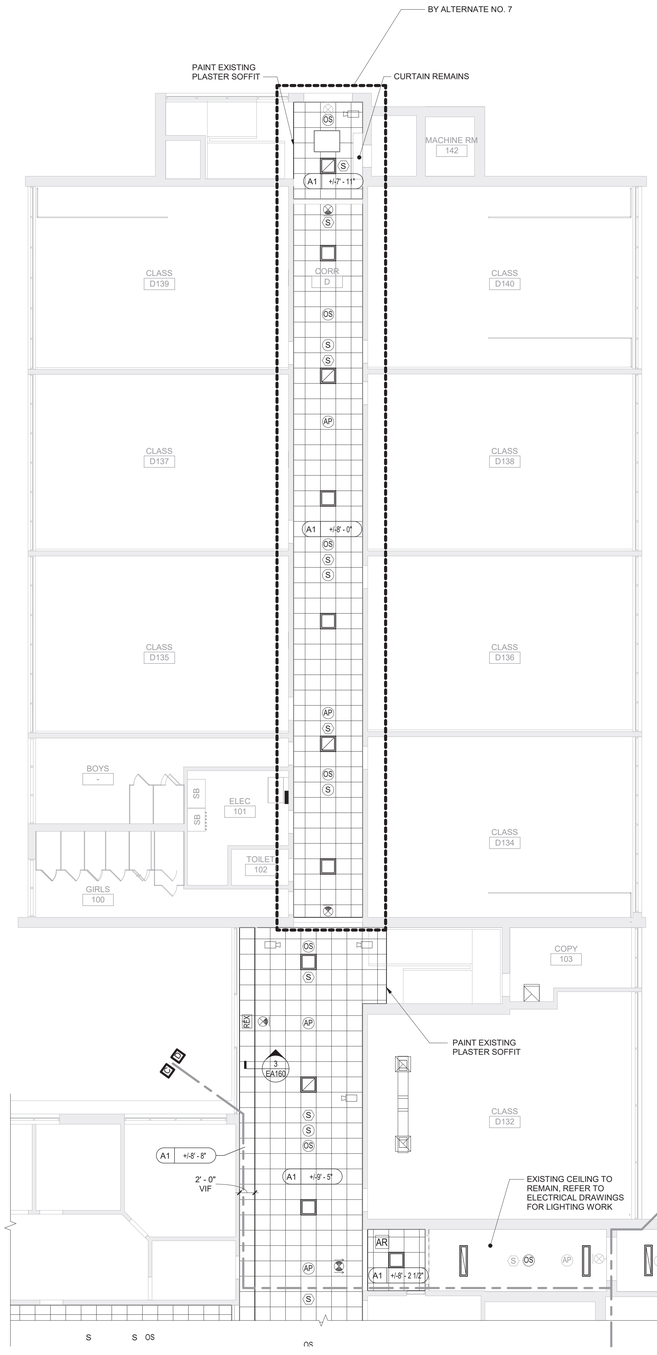
Beacon City School District
Beacon, New York

Reconstruction to:
Rombout Middle School

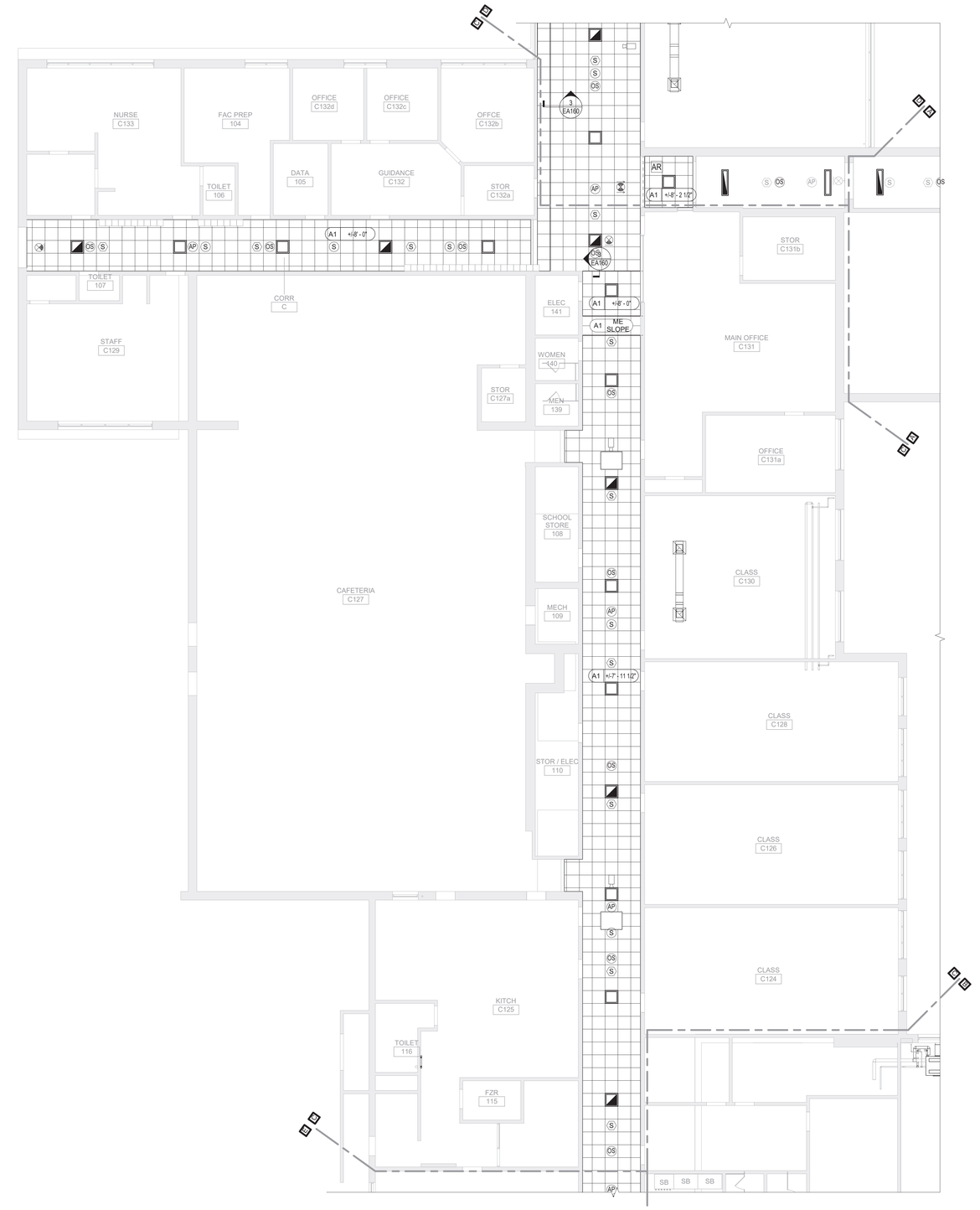
First Floor Reflected Ceiling Plan - Area B and E

Drawn By:	Date:	Drawing Number:
TLG	10/28/2022	EA161

Project No.: 279180-22004



2 First Floor Reflected Ceiling Plan - Area D
1/8" = 1'-0"



1 First Floor Reflected Ceiling Plan - Area C
1/8" = 1'-0"

General Ceiling Notes

A. LIGHTING AND OTHER CEILING-MOUNTED FIXTURES ARE SHOWN FOR DRAWING CLARITY. COORDINATE ALL CEILING WORK PRIOR TO INSTALLATION OF CEILING GRID.

B. CEILING HEIGHT IS 9'-0" ABOVE FINISHED FLOOR (UNO).

C. CENTER CEILING-MOUNTED ITEMS (LIGHTS, GRILLES, DETECTORS, SPRINKLER HEAD, ETC) WITHIN THE CEILING PANELS AND GRIDS UNLESS THE PANELS ARE SCORED. CENTER ITEMS WITHIN THE PATTERN OF SCORED PANELS.

D. PROVIDE EXPANSION JOINT (EJ) COVERS IN CEILINGS AND SOFFITS AT EJ LOCATIONS.

E. PROVIDE CONTROL JOINTS IN GYPSUM BOARD CEILINGS AND SOFFITS AS DETAILED ON DRAWINGS (MAXIMUM 20'-0" OC, EVENLY SPACED, TYP UNO).

F. PATCH CEILING SYSTEMS TO REMAIN THAT HAVE BEEN DISTURBED BY SCHEDULED WORK TO MATCH ADJACENT CONSTRUCTION PRIOR TO PAINTING.

G. (X | 9'-0") DESIGNATES BOTTOM OF CEILING ABOVE FINISHED FLOOR AT THAT POINT UNO. DESIGNATION "ME" INDICATES MATCH EXISTING CEILING HEIGHT.

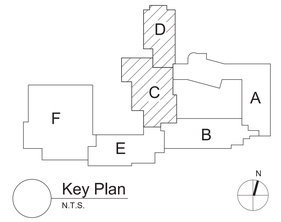
H. AT ALL LOCATIONS OF GYPSUM CEILINGS - PROVIDE 24" X 24" CONCEALED FLANGE ACCESS DOOR REGARDLESS OF LOCATION OR REQUIREMENT FOR ACCESS TO EQUIPMENT.

Ceiling Types

A1	X'-X"	ACOUSTIC PANEL CEILING
A2	X'-X"	ACOUSTIC PANEL CEILING
A4	X'-X"	ACOUSTIC PANEL CEILING
B	X'-X"	PAINTED 1/2" GYPSUM CEILING ON SUPPORT MATERIALS (GRID SUSPENSION SYSTEM, TYP UNO)
F	X'-X"	PAINTED EXPOSED STRUCTURAL SYSTEM, SUPPORT MATERIALS AND FASTENERS, MECHANICAL SYSTEM, ELECTRICAL ITEMS AND PIPING

NOTE: AT AREAS WITH "+/-", THE INTENT IS TO MATCH EXISTING, VERIFY IN FIELD.

AREA OF A2 CEILING TYPE



Key Plan
N.T.S.

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

Rev. No.:	Date:	Description:

BEACON CITY SCHOOL DISTRICT WHERE EXCELLENCE IS THE STANDARD

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

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TETRA TECH ARCHITECTS & ENGINEERS

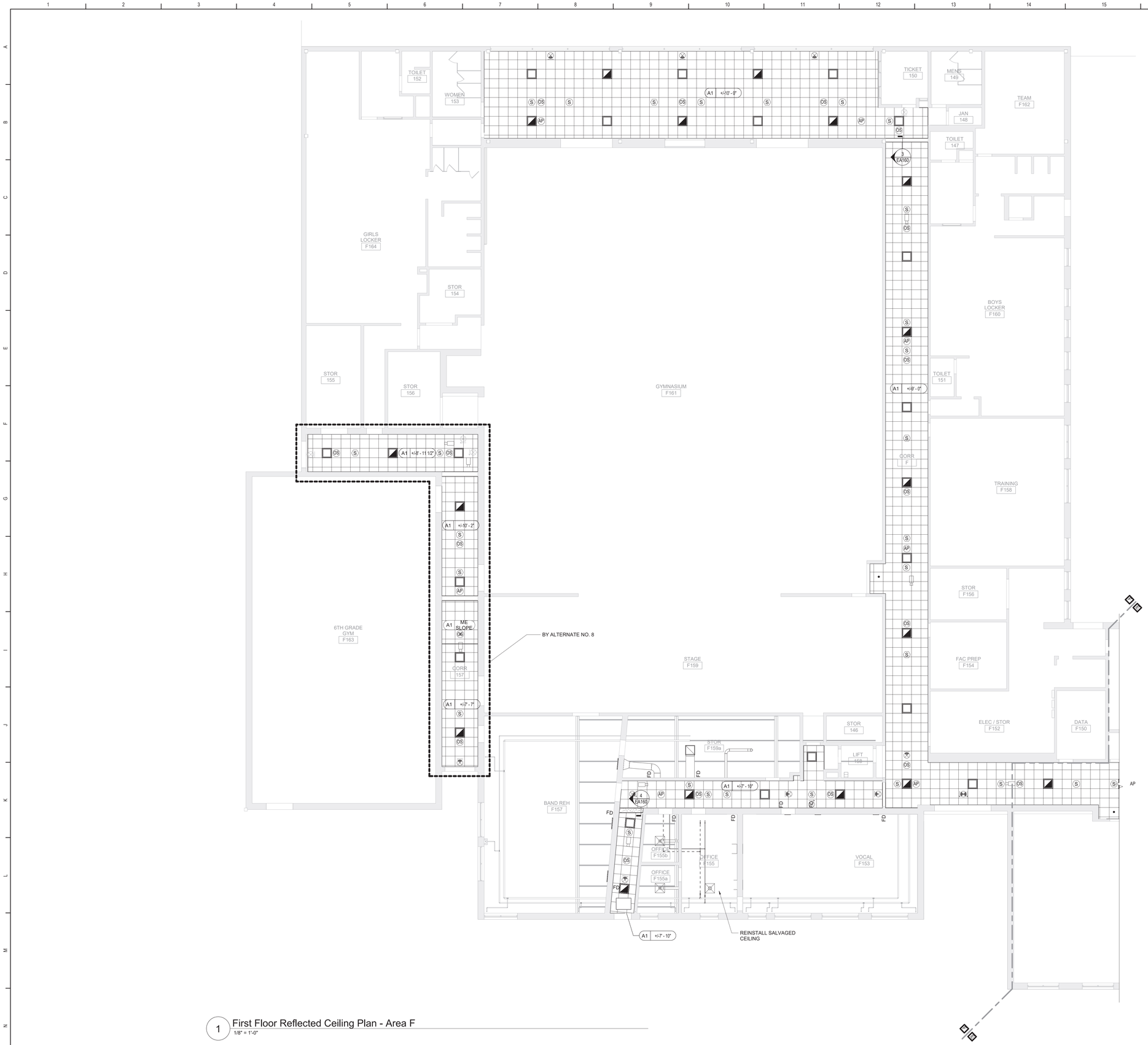
Beacon City School District
Beacon, New York

Reconstruction to:
Rombout Middle School

First Floor Reflected Ceiling Plan - Area C and D

Drawn By:	Date:	Drawing Number:
TLG	10/28/2022	EA162

Project No.: 279180-22004



1 First Floor Reflected Ceiling Plan - Area F
1/8" = 1'-0"

General Ceiling Notes

A. LIGHTING AND OTHER CEILING-MOUNTED FIXTURES ARE SHOWN FOR DRAWING CLARITY. COORDINATE ALL CEILING WORK PRIOR TO INSTALLATION OF CEILING GRID.

B. CEILING HEIGHT IS 9'-0" ABOVE FINISHED FLOOR (UNO).

C. CENTER CEILING-MOUNTED ITEMS (LIGHTS, GRILLES, DETECTORS, SPRINKLER HEAD, ETC) WITHIN THE CEILING PANELS AND GRIDS UNLESS THE PANELS ARE SCORED. CENTER ITEMS WITHIN THE PATTERN OF SCORED PANELS.

D. PROVIDE EXPANSION JOINT (EJ) COVERS IN CEILINGS AND SOFFITS AT EJ LOCATIONS.

E. PROVIDE CONTROL JOINTS IN GYPSUM BOARD CEILINGS AND SOFFITS AS DETAILED ON DRAWINGS (MAXIMUM 20'-0" OC, EVENLY SPACED, TYP UNO).

F. PATCH CEILING SYSTEMS TO REMAIN THAT HAVE BEEN DISTURBED BY SCHEDULED WORK TO MATCH ADJACENT CONSTRUCTION PRIOR TO PAINTING.

G. (X | 9'-0") DESIGNATES BOTTOM OF CEILING ABOVE FINISHED FLOOR AT THAT POINT UNO. DESIGNATION "ME" INDICATES MATCH EXISTING CEILING HEIGHT.

H. AT ALL LOCATIONS OF GYPSUM CEILINGS - PROVIDE 24" X 24" CONCEALED FLANGE ACCESS DOOR REGARDLESS OF LOCATION OR REQUIREMENT FOR ACCESS TO EQUIPMENT.

Ceiling Types

(A1 | X'-X") ACOUSTIC PANEL CEILING

(A2 | X'-X") ACOUSTIC PANEL CEILING

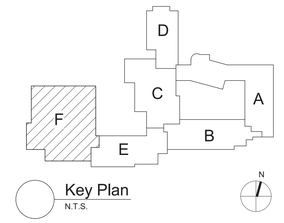
(A4 | X'-X") ACOUSTIC PANEL CEILING

(B | X'-X") PAINTED 1/2" GYPSUM CEILING ON SUPPORT MATERIALS (GRID SUSPENSION SYSTEM, TYP UNO)

(F | X'-X") PAINTED EXPOSED STRUCTURAL SYSTEM, SUPPORT MATERIALS AND FASTENERS, MECHANICAL SYSTEM, ELECTRICAL ITEMS AND PIPING

NOTE: AT AREAS WITH "+/-", THE INTENT IS TO MATCH EXISTING, VERIFY IN FIELD.

AREA OF A2 CEILING TYPE



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

Rev. No.:	Date:	Description:

BEACON CITY SCHOOL DISTRICT WHERE EXCELLENCE IS THE STANDARD

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

BID SET

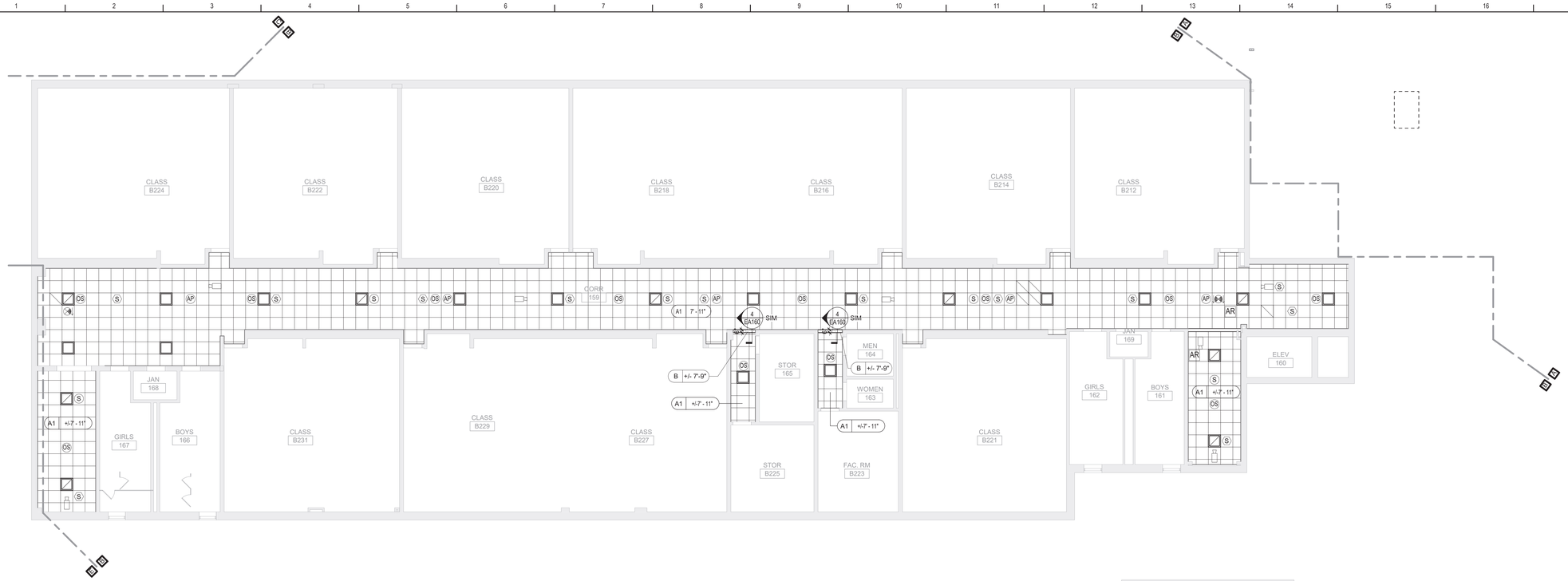
TETRA TECH ARCHITECTS & ENGINEERS

Beacon City School District
Beacon, New York

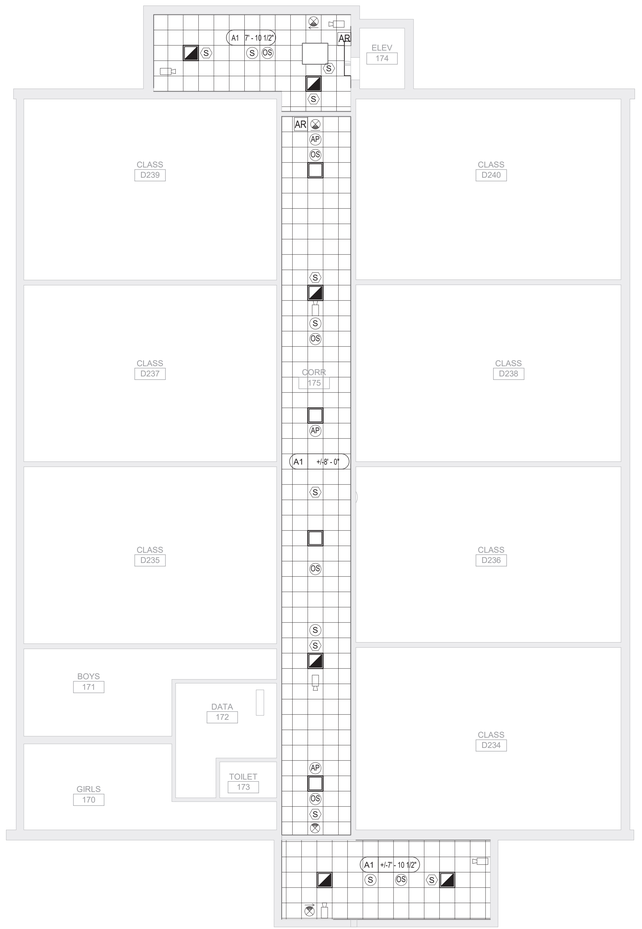
Reconstruction to:
Rombout Middle School

First Floor Reflected Ceiling Plan - Area F

Drawn By:	Date:	Drawing Number:
TLG	10/28/2022	EA163
Project No.: 279180-22004		



1 Second Floor Reflected Ceiling Plan - Area B - By Alternate No. 10
1/8" = 1'-0"



2 Second Floor Reflected Ceiling Plan - Area D - By Alternate No. 7
1/8" = 1'-0"

General Ceiling Notes

A. LIGHTING AND OTHER CEILING-MOUNTED FIXTURES ARE SHOWN FOR DRAWING CLARITY. COORDINATE ALL CEILING WORK PRIOR TO INSTALLATION OF CEILING GRID.

B. CEILING HEIGHT IS 9'-0" ABOVE FINISHED FLOOR (UNO).

C. CENTER CEILING-MOUNTED ITEMS (LIGHTS, GRILLES, DETECTORS, SPRINKLER HEAD, ETC) WITHIN THE CEILING PANELS AND GRIDS UNLESS THE PANELS ARE SCORED. CENTER ITEMS WITHIN THE PATTERN OF SCORED PANELS.

D. PROVIDE EXPANSION JOINT (EJ) COVERS IN CEILINGS AND SOFFITS AT EJ LOCATIONS.

E. PROVIDE CONTROL JOINTS IN GYPSUM BOARD CEILINGS AND SOFFITS AS DETAILED ON DRAWINGS (MAXIMUM 20'-0" OC, EVENLY SPACED, TYP UNO).

F. PATCH CEILING SYSTEMS TO REMAIN THAT HAVE BEEN DISTURBED BY SCHEDULED WORK TO MATCH ADJACENT CONSTRUCTION PRIOR TO PAINTING.

G. (X) 9'-0" DESIGNATES BOTTOM OF CEILING ABOVE FINISHED FLOOR AT THAT POINT UNO. DESIGNATION "ME" INDICATES MATCH EXISTING CEILING HEIGHT.

H. AT ALL LOCATIONS OF GYPSUM CEILINGS - PROVIDE 24" X 24" CONCEALED FLANGE ACCESS DOOR REGARDLESS OF LOCATION OR REQUIREMENT FOR MENT.

Ceiling Types

A1 X'-X" ACOUSTIC PANEL CEILING

A2 X'-X" ACOUSTIC PANEL CEILING

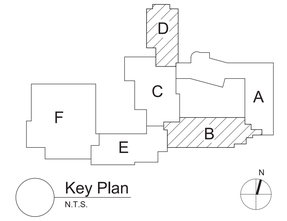
A4 X'-X" ACOUSTIC PANEL CEILING

B X'-X" PAINTED 1/2" GYPSUM CEILING ON SUPPORT MATERIALS (GRID SUSPENSION SYSTEM, TYP UNO)

F X'-X" PAINTED EXPOSED STRUCTURAL SYSTEM, SUPPORT MATERIALS AND FASTENERS, MECHANICAL SYSTEM, ELECTRICAL ITEMS AND PIPING

NOTE: AT AREAS WITH "+/-", THE INTENT IS TO MATCH EXISTING, VERIFY IN FIELD.

AREA OF A2 CEILING TYPE



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

Rev. No.:	Date:	Description:

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

BID SET

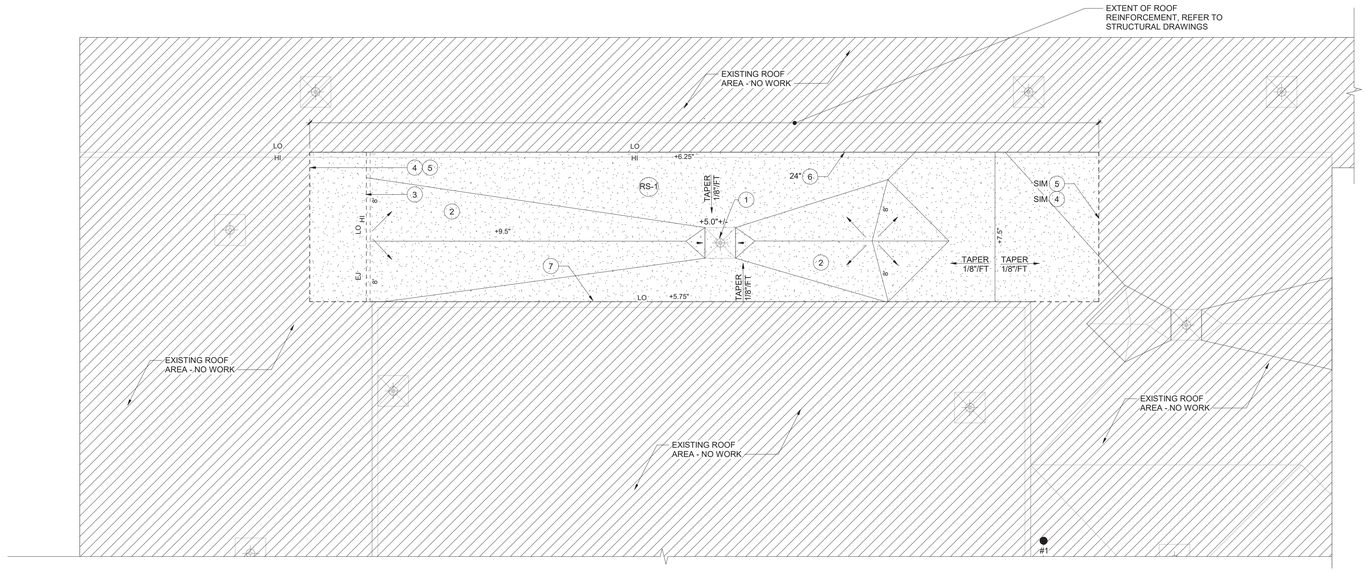
TETRA TECH ARCHITECTS & ENGINEERS

Beacon City School District
Beacon, New York

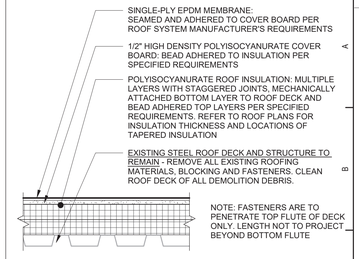
Reconstruction to:
Rombout Middle School

Second Floor Reflected Ceiling Plan - Area B and D

Drawn By:	Date:	Drawing Number:
TTAE	10/28/2022	EA164
Project No.: 279180-22004		



1 Roof Plan
1/8" = 1'-0"



INSULATION ENTIRELY ABOVE ROOF DECK = R-30CI
ROOF ASSEMBLY U-FACTOR = 0.031

2 Roof System RS-1
1 1/2" = 1'-0"

Legend
(2011-05) arch-rflgnd

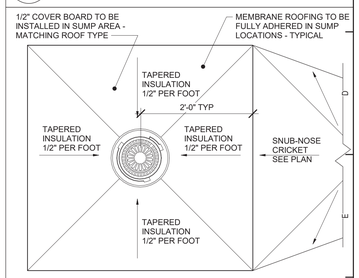
- AREA OF TAPERED INSULATION (TYP).
- EXISTING ROOF AREA - NO WORK
- ROOF DRAIN INSERT IN EXISTING ROOF DRAIN (TYP). PROVIDE TAPERED SUMP.
- EJ — EXPANSION JOINT (TYP).
- TAPER 1/8"/FT — DIRECTION AND DEGREE OF DOWNWARD SLOPE OF TAPERED INSULATION (MINIMUM 1/8"/FT, TYP).
- OR — DIRECTION OF DOWNWARD SLOPE OF TAPERED INSULATION CRICKET (1/2"/FT, TYP UNO).
- +X" — TOTAL THICKNESS OF INSULATION.
- RS-X — ROOF SYSTEM TYPE RS-X.
- #X — TEST CUT LOCATION, REFER TO EXISTING CONDITIONS NOTES

Roof Key Notes

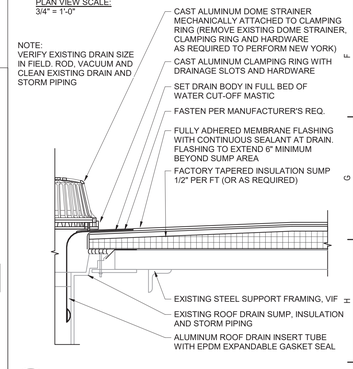
1. PROVIDE ROOF DRAIN INSERT AT EXISTING ROOF DRAIN - SEE DETAIL 3/EA190.
2. TAPERED INSULATION CRICKET (TYP) SLOPE 1/2"/FT. TYP ALL SIDES. VERIFY LENGTH IN FIELD. WIDTH AS INDICATED ON PLAN AND TYPICAL AT ALL CURB PENETRATIONS.
3. REPLACE EXPANSION JOINT AT EXISTING LOCATION, HEIGHT AS REQUIRE TO ACCOMMODATE ROOF THICKNESS - SEE DETAIL 6/EA190 .
4. FLASH INTO EXISTING FULLY ADHERED EPDM ROOF SYSTEM TO COMPLY WITH ALL MANUFACTURE'S WARRANTY REQUIREMENTS - SEE DETAIL 4/EA190 SIMILAR.
5. MATCH TAPERED INSULATION HEIGHT AND TIE IN ROOF MEMBRANE.
6. ROOF VERTICAL TRANSITION DETAIL WITH FASCIA AT UPPER ROOF LEVEL APPROXIMATE HEIGHT INDICATED ON PLAN - SEE DETAIL 5/EA190.
7. PROVIDE BASE/COUNTER FLASHING BELOW EXISTING THROUGH-WALL FLASHING - SEE DETAIL 7/EA190.
8. PROVIDE ROOF OPENING AND INSTALL ROOF CURB FURNISHED BY MECHANICAL CONTRACTOR. SEE DETAIL 11/EA190

EXISTING CONDITIONS:

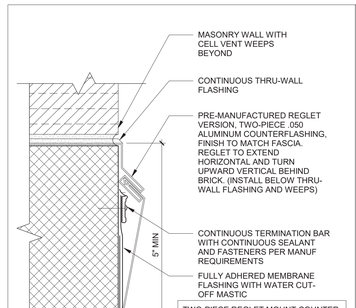
1. TYPICAL AT ('F' WINGS) LOW ROOF AREAS - REFER TO PLAN TEST CUT LOCATIONS #1:
   - FULLY ADHERED EPDM MEMBRANE.
   - TAPERED POLYISOCYANURATE INSULATION – THICKNESS VARIES BETWEEN 3" TO 5" – MECHANICALLY ATTACHED.
   - TAR PAPER.
   - CORRUGATED METAL ROOF DECK – FLAT.



PLAN VIEW SCALE:
3/4" = 1'-0"

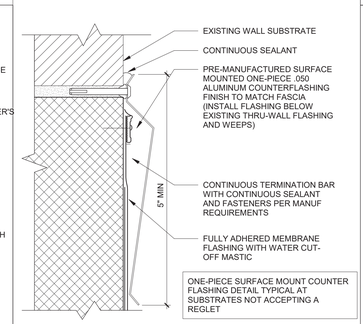


3 Roof Drain Insert Detail
1 1/2" = 1'-0"

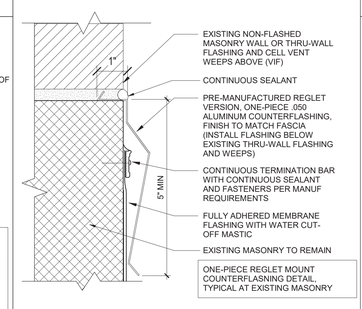


TWO-PIECE REGLET MOUNT COUNTER FLASHING DETAIL TYPICAL AT NEW MASONRY

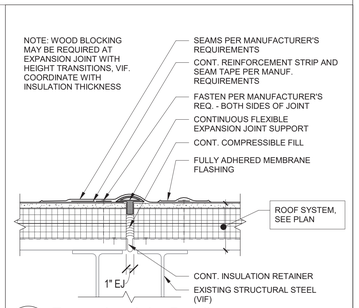
9 Enlarged Base/Counter Flashing Detail
6" = 1'-0"



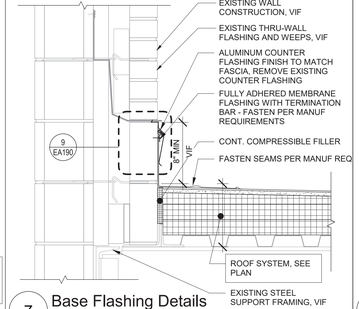
ONE-PIECE SURFACE MOUNT COUNTER FLASHING DETAIL TYPICAL AT SUBSTRATES NOT ACCEPTING A REGLET



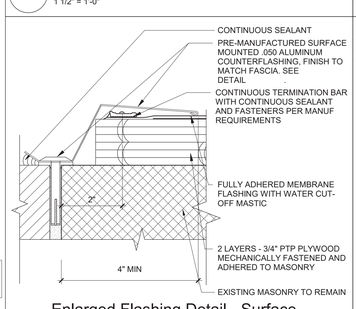
ONE-PIECE REGLET MOUNT COUNTERFLASHING DETAIL, TYPICAL AT EXISTING MASONRY



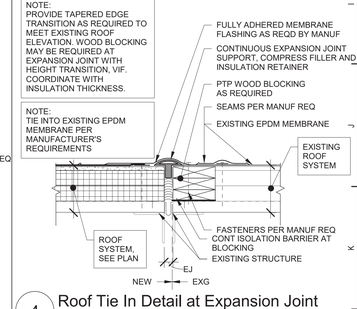
6 Expansion Joint Detail
1 1/2" = 1'-0"



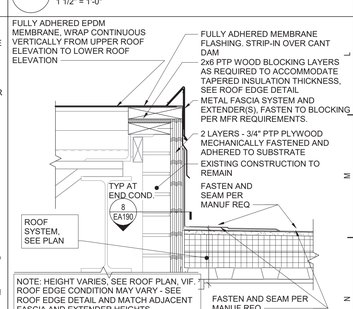
7 Base Flashing Details
1 1/2" = 1'-0"



8 Enlarged Flashing Detail - Surface Mounted at Vertical Termination
6" = 1'-0"



4 Roof Tie In Detail at Expansion Joint
1 1/2" = 1'-0"



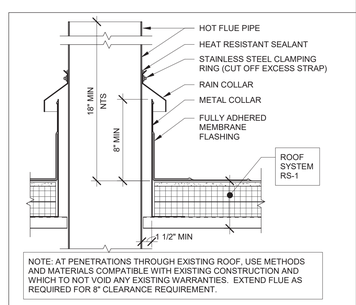
5 Roof Transition Detail
1 1/2" = 1'-0"

NOTE: PENETRATIONS THROUGH EXISTING ROOFS - FLASHING INTO EXISTING ROOF SYSTEM AND PATCH TO MATCH AS REQUIRED BY ROOF SYSTEM MANUFACTURER. EXTEND EXISTING VENT PIPE AS REQUIRED.

10 Roof Vent Pipe Detail
1 1/2" = 1'-0"

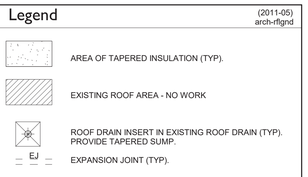
NOTE: AT PENETRATIONS THROUGH EXISTING ROOF, USE METHODS AND MATERIALS COMPATIBLE WITH EXISTING CONSTRUCTION AND WHICH TO NOT VOID ANY EXISTING WARRANTIES. RAISE CURB WITH ADDITIONAL PTP BLOCKING AS REQUIRED TO ARCHIVE HEIGHT OF ROOF INSULATION, VIF.

11 Equipment Curb Detail
1 1/2" = 1'-0"



NOTE: AT PENETRATIONS THROUGH EXISTING ROOF, USE METHODS AND MATERIALS COMPATIBLE WITH EXISTING CONSTRUCTION AND WHICH TO NOT VOID ANY EXISTING WARRANTIES. EXTEND FLUE AS REQUIRED FOR 8" CLEARANCE REQUIREMENT.

12 Hot Flue Pipe Detail
1 1/2" = 1'-0"



Key Plan
N.T.S.

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

Rev. No.:	Date:	Description:

BEACON CITY SCHOOL DISTRICT WHERE EXCELLENCE IS THE STANDARD

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

BID SET

TETRA TECH ARCHITECTS & ENGINEERS

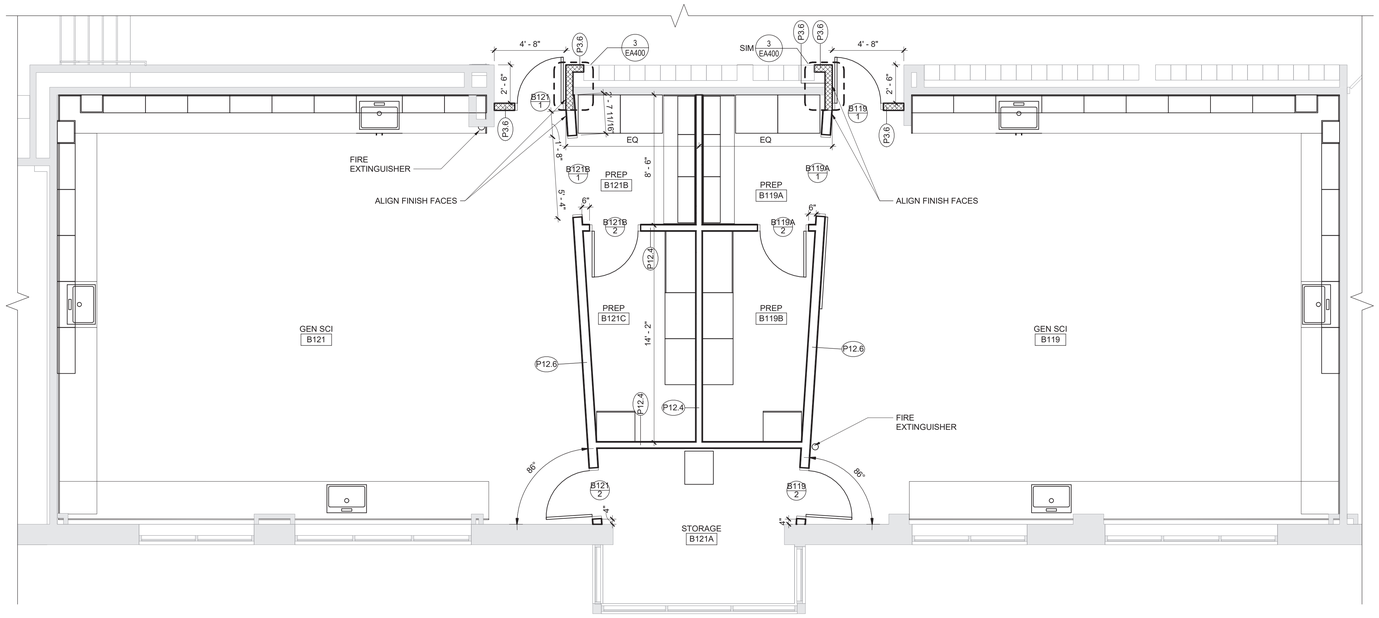
Beacon City School District
Beacon, New York

Reconstruction to:
Rombout Middle School

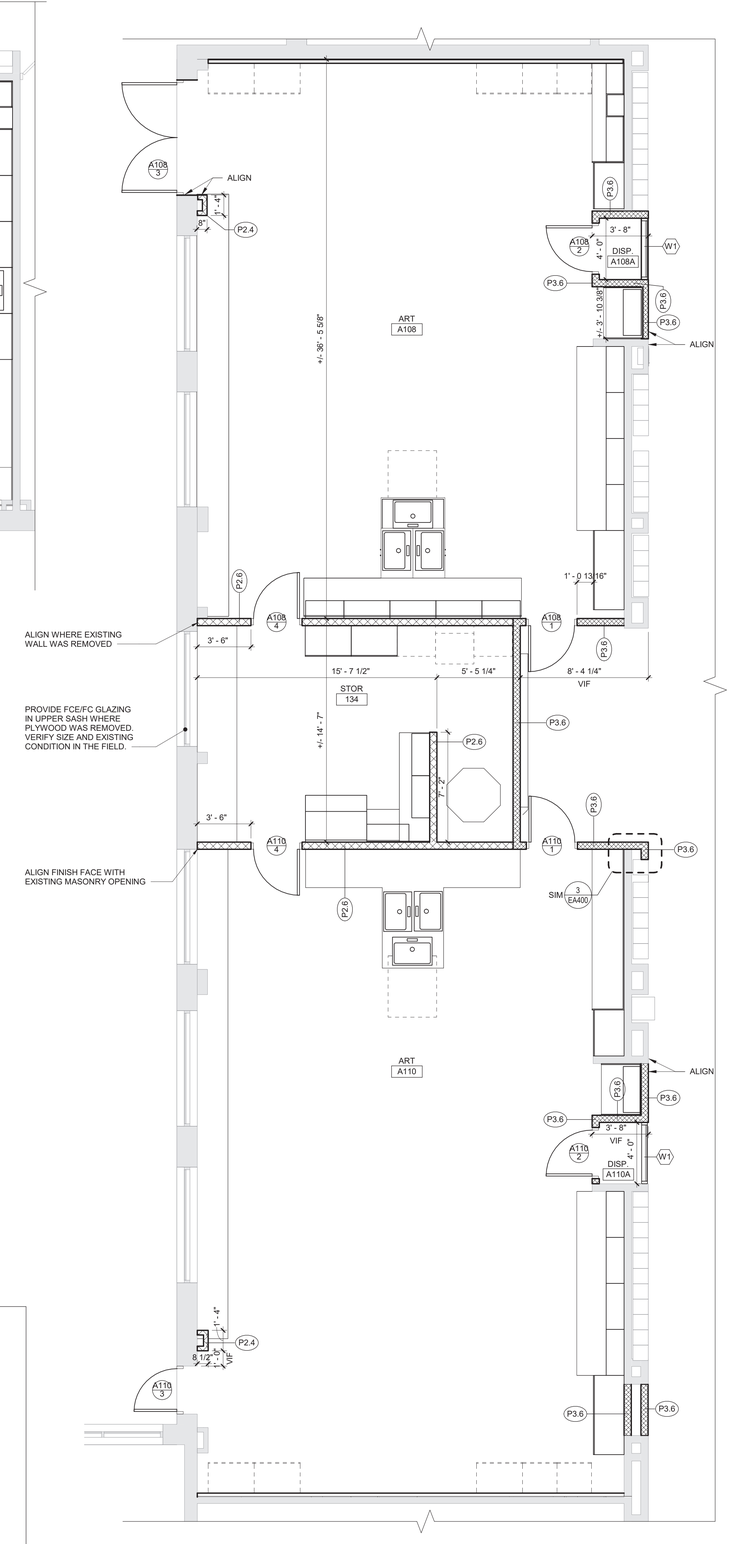
Roof Plan and Details

Drawn By:	Date:	Drawing Number:
TLG	10/28/2022	EA190

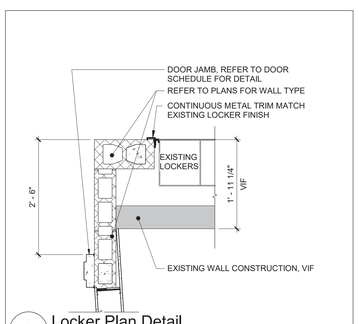
Project No.: 279180-22004



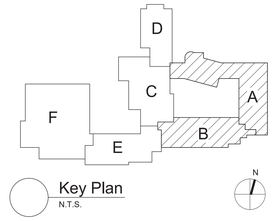
2 First Floor Area B Enalrged Science Rooms Plan
1/4" = 1'-0"



1 First Floor Area A Enlarged Art Rooms Plan
1/4" = 1'-0"



3 Locker Plan Detail
3/4" = 1'-0"



Key Plan
N.T.S.

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

Rev. No.:	Date:	Description:

BEACON CITY SCHOOL DISTRICT — WHERE EXCELLENCE IS THE STANDARD

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

BID SET

TETRA TECH ARCHITECTS & ENGINEERS

Beacon City School District
Beacon, New York

Reconstruction to:
Rombout Middle School

Enlarged Plans and Details

Drawn By:	Date:	Drawing Number:
TTAE	10/28/2022	EA400

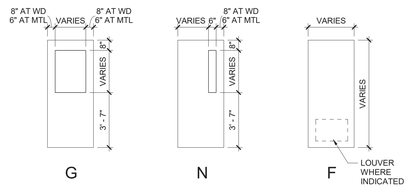
Project No.:
279180-22004

Door Schedule

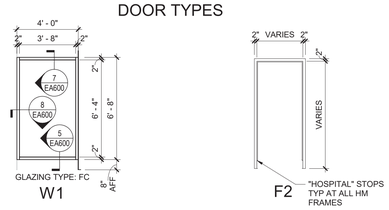
ROOM NUMBER	DOOR NUMBER	DOOR TYPE	DOOR MATERIAL	DOOR WIDTH	DOOR HEIGHT	DOOR RATING	DOOR GLAZING	FRAME TYPE	FRAME MATERIAL	FRAME WIDTH	FRAME HEIGHT	FRAME RATING	FRAME GLAZING	FRAME HEAD	FRAME JAMB	FRAME SILL	HDW SET	REMARKS
1st FLOOR																		
A108	1	N	WD	3' - 0"	7' - 0"	20 MIN	FP	F2	HM	3' - 4"	7' - 2"	20 MIN	-	H-1	J-1	-	01	
A108	2	F	WD	3' - 0"	7' - 0"	20 MIN	-	F2	HM	3' - 4"	7' - 2"	20 MIN	-	H-1	J-1	-	06	
A108	3	G-PR	FRP	3' - 7"	7' - 0"	-	FCE/FC	F2	AL	7' - 6"	7' - 2"	-	-	9/EA600	10/EA600 AND 6/EA600	11/EA600	07	
A108	4	F	WD	3' - 0"	7' - 0"	-	-	F2	HM	3' - 4"	7' - 2"	-	-	H-1	J-1	-	08	
A110	1	N	WD	3' - 0"	7' - 0"	20 MIN	FP	F2	HM	3' - 4"	7' - 2"	20 MIN	-	H-1	J-1	-	01	
A110	2	F	WD	3' - 0"	7' - 0"	20 MIN	-	F2	HM	3' - 4"	7' - 2"	20 MIN	-	H-1	J-1	-	06	
A110	3	G	FRP	2' - 9 1/2"	7' - 0"	-	FCE/FC	F2	AL	3' - 1 1/2"	7' - 2"	-	-	9/EA600	10/EA600 AND 6/EA600	11/EA600	09	
A110	4	F	WD	3' - 0"	7' - 0"	-	-	F2	HM	3' - 4"	7' - 2"	-	-	H-1	J-1	-	08	
B119	1	N	WD	3' - 0"	7' - 0"	20 MIN	FP	F2	HM	3' - 4"	7' - 2"	20 MIN	-	H-1	J-1 AND 3/EA400	-	10	
B119	2	F	WD	3' - 0"	7' - 0"	-	-	F2	HM	3' - 4"	7' - 2"	-	-	H-13	J-13	-	04	PROVIDE 2" UNDERCUT
B119A	1	-	-	0"	0"	-	-	F2	HM	5' - 4"	7' - 2"	-	-	H-14	J-13	-	05	
B119A	2	F	WD	3' - 0"	7' - 0"	-	-	F2	HM	3' - 4"	7' - 2"	-	-	H-13	J-13	-	04	PROVIDE LOUVER 12" WIDE X 8" HIGH
B121	1	N	WD	3' - 0"	7' - 0"	20 MIN	FP	F2	HM	3' - 4"	7' - 2"	20 MIN	-	H-1	J-1 AND 3/EA400	-	10	
B121	2	F	WD	3' - 0"	7' - 0"	-	-	F2	HM	3' - 4"	7' - 2"	-	-	H-13	J-13	-	04	PROVIDE 2" UNDERCUT
B121B	1	-	-	0"	0"	-	-	F2	HM	5' - 4"	7' - 2"	-	-	H-14	J-13	-	05	
B121B	2	F	WD	3' - 0"	7' - 0"	-	-	F2	HM	3' - 4"	7' - 2"	-	-	H-13	J-13	-	04	PROVIDE LOUVER 12" WIDE X 8" HIGH
F159a	1	F	WD	3' - 0"	6' - 10"	-	-	EXG	EXG	3' - 4"	7' - 2"	-	-	-	-	-	01	PROVIDE LOUVER 20" WIDE X 28" HIGH

GENERAL NOTES:
VERIFY ALL DIMENSIONS IN THE FIELD

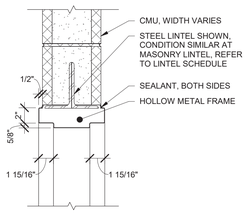
SPECIFIC NOTES:
- NOT APPLICABLE

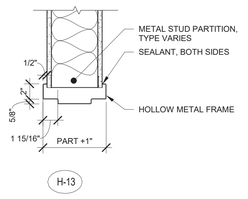


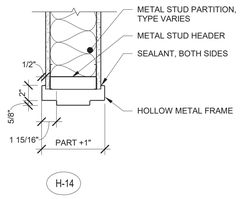
DOOR TYPES

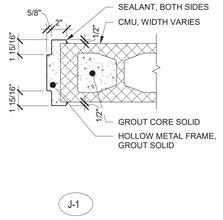


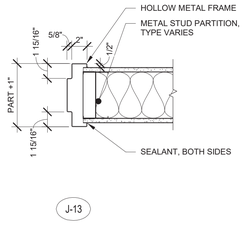
WINDOW TYPES FRAME TYPES



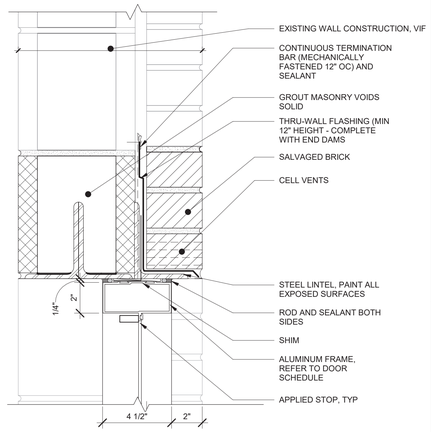




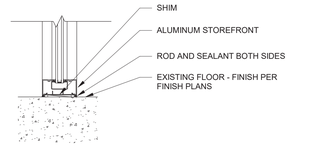




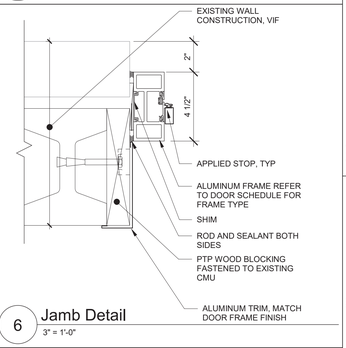
12 08 11 13_Hollow Metal Frame Details
1 1/2" = 1'-0"



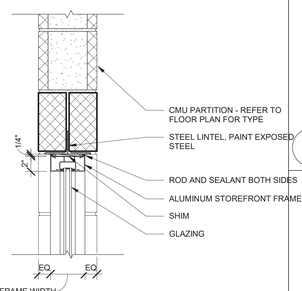
9 Head Detail
3" = 1'-0"



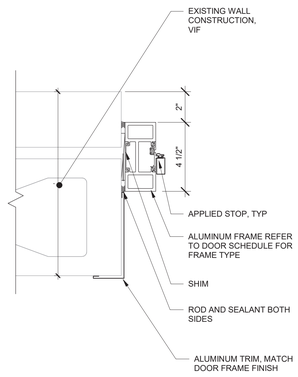
5 Sill Detail
1 1/2" = 1'-0"



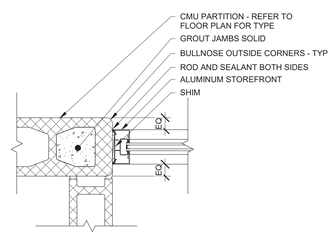
6 Jamb Detail
3" = 1'-0"



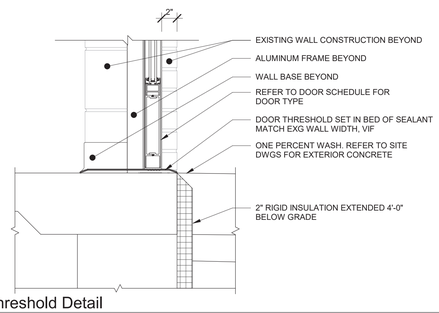
7 Head Detail
1 1/2" = 1'-0"



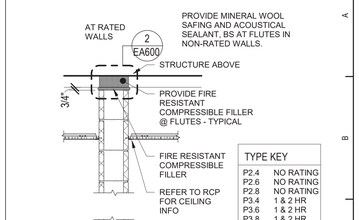
10 Jamb Detail
3" = 1'-0"



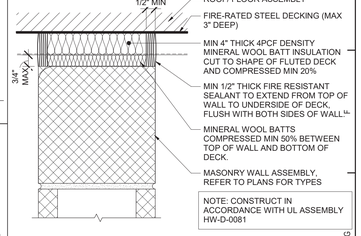
8 Jamb Detail
1 1/2" = 1'-0"



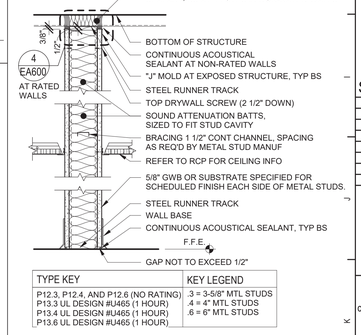
11 Threshold Detail
1 1/2" = 1'-0"



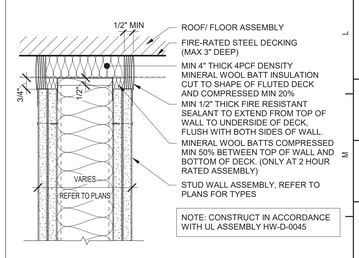
1 Partition Type P2 and P3
3/4" = 1'-0"



2 Typical Rated Top of Wall Assembly
3" = 1'-0"



3 Metal Stud Partition Type P12 and P13
1 1/2" = 1'-0"



4 Typical Top of Wall Assembly (Rated)
3" = 1'-0"

General Door Notes

A. HARDWARE ON DOORS FROM SPACES OF PUPIL OCCUPANCY SHALL BE A TYPE WHICH WILL ALWAYS PERMIT THE DOOR TO BE OPENED FROM THE INSIDE WITHOUT DIRECT MANIPULATION OF ANY TYPE LOCKING DEVICE.

B. METAL VISION PANEL TRIM SHALL BE PAINTED SAME COLOR AS DOOR FRAMES.

C. ALL HM FRAMES IN CMU WALLS SHALL BE GROUTED SOLID.

D. APPLY CONTINUOUS JOINT SEALANT TO ALL JOINTS BETWEEN FRAMES AND WALLS, TYP ALL.

E. PAINT ALL HM DOORS AND FRAMES IN ACCORDANCE W/ SECTION 09900.

F. PROVIDE LINTELS AT ALL DOOR AND WINDOW OPENINGS IN ACCORDANCE WITH LINTEL SCHEDULE ON STRUCTURAL DWGS.

G. PROVIDE MARBLE THRESHOLDS AT ALL TOILET ROOMS WHERE ADJACENT FINISH IS CERAMIC TILE. REFER TO DETAIL 11/A2828.

H. VERIFY SIZES OF ALL EXISTING OPENINGS IN SCHEDULE PRIOR TO FIRST SUBMISSION OF SHOP DRAWINGS. NOTIFY ARCHITECT IF ANY ARE LESS THAN CODE MINIMUM HEIGHT OF 6'-8". ASSUME FOR BIDDING ALL EXISTING OPENINGS ARE AS NOTED IN THE SCHEDULE (VIF, TYP).

J. MATERIAL DESIGNATION KEY:

FRP FIBERGLASS REINFORCED PLASTIC
HM HOLLOW METAL
WD WOOD
AL ALUMINUM
STL STEEL
EXG EXISTING

L. ADDITIONAL DOOR SCHEDULE DESIGNATIONS:

* EXISTING TO REMAIN
\- NOT APPLICABLE
NOT APPLICABLE OR TO BE COORDINATED WITH STOREFRONT TYPE.

General Window Notes

A. INSULATING GLASS UNITS SHALL BE TYPE FCE/FC, TYP UNO.

B. RESCUE WINDOWS ARE INDICATED BY THE DESIGNATION "RW".

C. PROVIDE ALL ALUMINUM FLASHINGS, RECEIVERS, TRIM AND SILLS REQUIRED FOR A COMPLETE AND FINISHED INSTALLATION REGARDLESS OF IF SHOWN ON DRAWINGS.

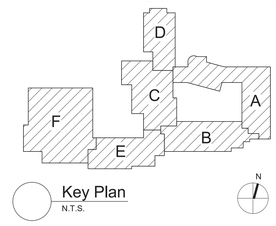
D. REFER TO WINDOW TREATMENTS AS SHOWN ON DRAWINGS.

E. GLAZING SYSTEMS FRAME TYPE KEY:

C ALUMINUM CURTAIN WALL
F HOLLOW METAL
S ALUMINUM STOREFRONT
W ALUMINUM WINDOWS

F. PROVIDE INTERNAL STEEL REINFORCEMENT TO WINDOW, STOREFRONT AND CURTAIN WALL SYSTEMS AS REQUIRED TO COMPLY WITH WIND LOADING OR OTHER DESIGN CRITERIA, OR AS RECOMMENDED BY MANUFACTURER.

G. ALUMINUM WINDOW, STOREFRONT AND CURTAIN WALL FRAME EXTRUSIONS ARE INTENDED AS GENERIC GRAPHIC REPRESENTATIONS ONLY.



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

Rev. No.:	Date:	Description:

BEACON CITY SCHOOL DISTRICT — WHERE EXCELLENCE IS THE STANDARD

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

BID SET

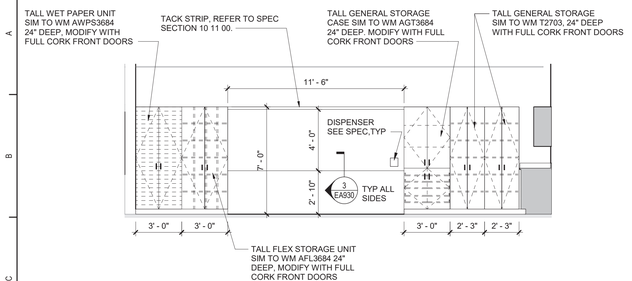
TETRA TECH ARCHITECTS & ENGINEERS

Beacon City School District
Beacon, New York

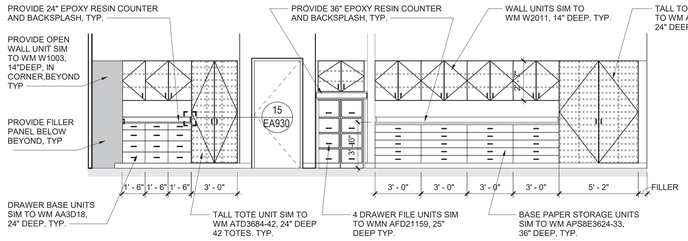
Reconstruction to:
Rombout Middle School

Door Schedule, Door, Frame and Wall Types, and Details

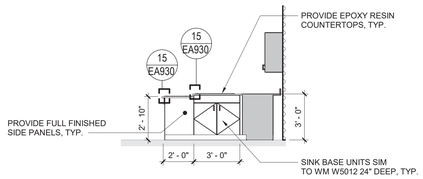
Drawn By:	Date:	Drawing Number:
TLG	10/28/2022	EA600
Project No.: 279180-22004		



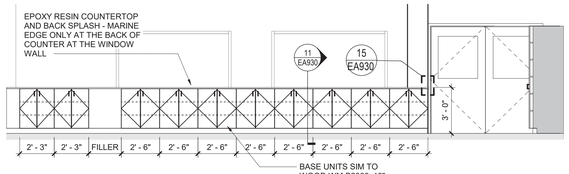
3 Art 108
1/4" = 1'-0"



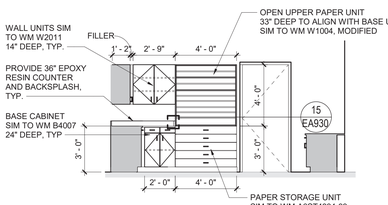
2 Art 108
1/4" = 1'-0"



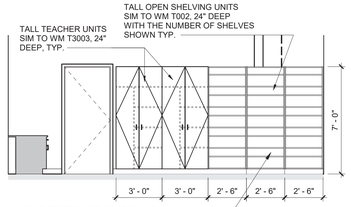
5 Art A108
1/4" = 1'-0"



4 Art 108
1/4" = 1'-0"



8 Art Storage 134
1/4" = 1'-0"



7 Art Storage
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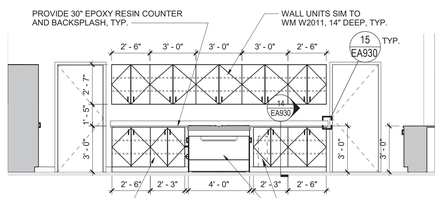
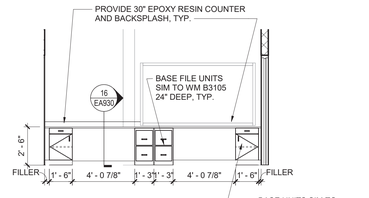


6 Art 108
1/4" = 1'-0"



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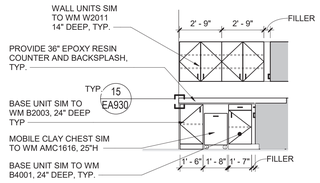

9 Art Storage 134
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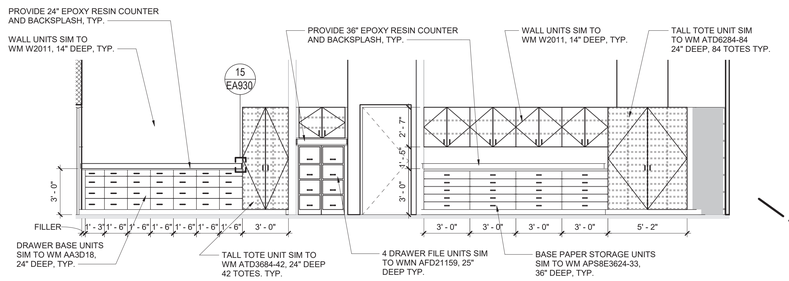
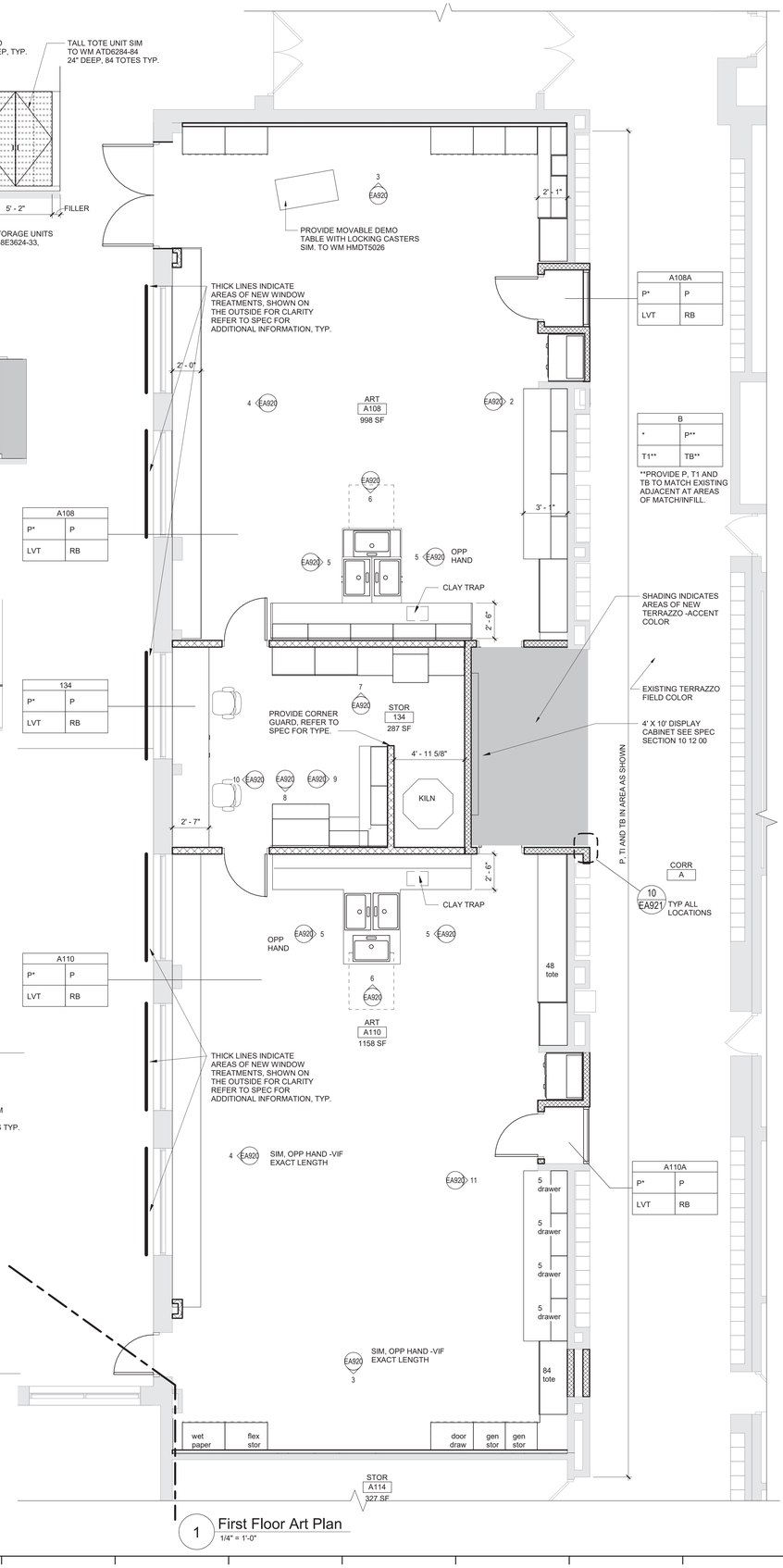


11 Art Room A110
1/4" = 1'-0"



1 First Floor Art Plan
1/4" = 1'-0"

Room Finish Key

EF	EPOXY FLOORING - POURED
RF	RESINOUS FLOORING - EPOXY
LVT	LUXURY VINYL TILE
MCS	MOISTURE CONTROL SYSTEM
N	NO WORK REQUIRED
P	PAINT SURFACE(S) INCLUDING SOFFITS
RB	RUBBER BASE
T1	TERRAZZO - TYPE 1 - POURED EPOXY
TB	TERRAZZO BASE - PRECAST
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

FINISHES SHOWN IN ROOM FINISH BOX ARE FOR ALL WALLS AND ENTIRE FLOOR AND CEILING REFER TO EACH ROOM FOR MORE INFORMATION.

RM#	
CLG*	WALL
FLR	BASE

Window Treatment Key

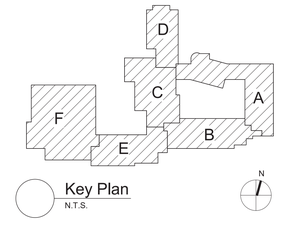
INDICATES AREAS OF WINDOW TREATMENTS

Window Treatment Notes

THIS DRAWING IS FOR LOCATION OF WINDOW TREATMENTS ONLY. SPECIFICATIONS SECTION AND ARCH. DRAWINGS FOR SIZES AND ADDITIONAL PRODUCT INFORMATION.

SHADE SIZES SHALL BE COORDINATED WITH WINDOWS, INCLUDING ALL RESCUE WINDOW REQUIREMENTS.

REFER TO DRAWING EA930 FOR GENERAL FINISH NOTES
REFER TO DRAWING EA930 FOR CASEWORK NOTES



Key Plan
N.T.S.

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

Rev. No.:	Date:	Description:

BEACON CITY SCHOOL DISTRICT
WHERE EXCELLENCE IS THE STANDARD

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

BID SET

TETRA TECH
ARCHITECTS & ENGINEERS

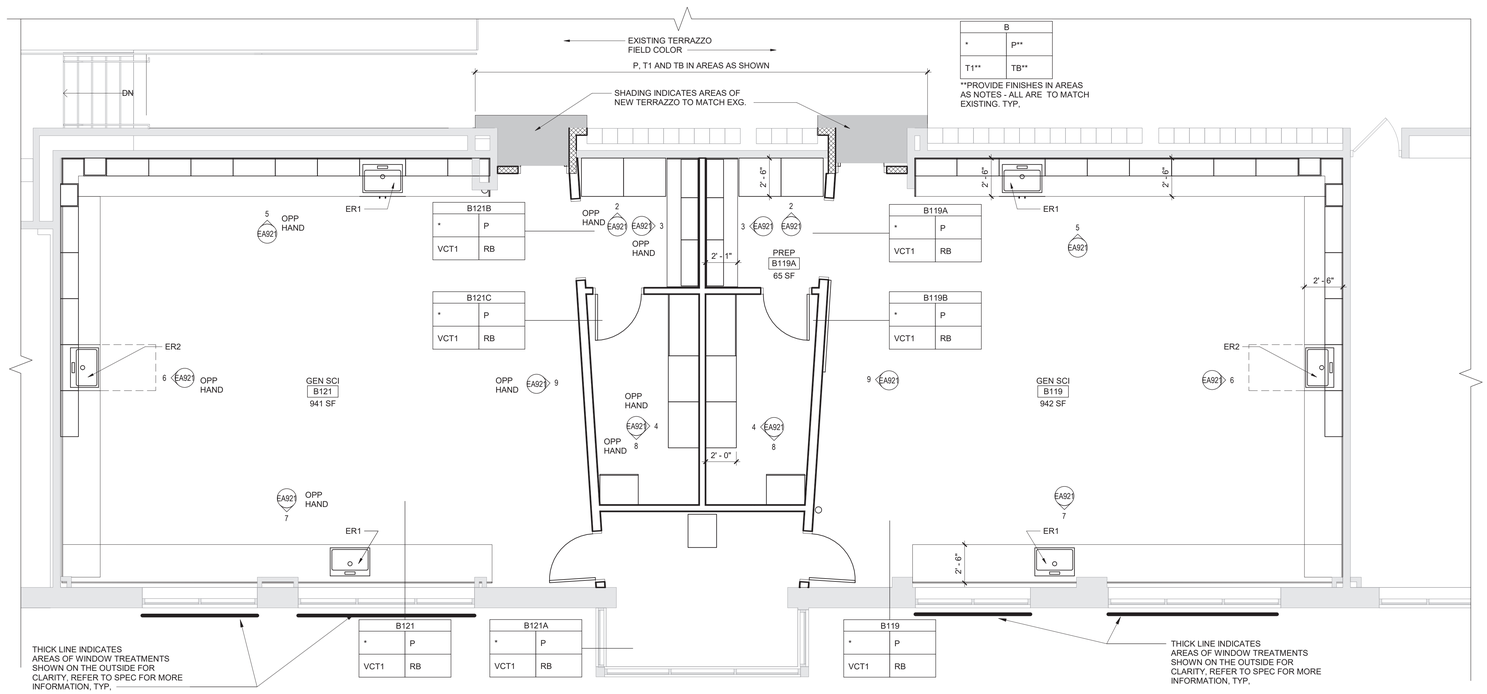
Beacon City School District
Beacon, New York

Reconstruction to:
Rombout Middle School

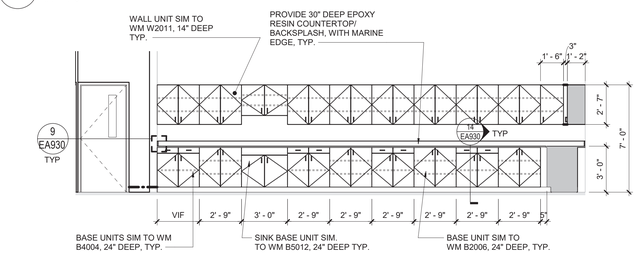
Enlarged Plans

Drawn By:	Date:	Drawing Number:
TTAE	10/28/2022	EA920

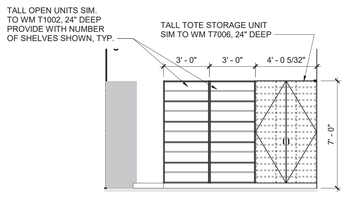
Project No.: 279180-22004



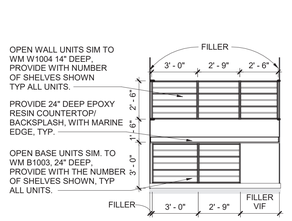
1 First Floor Area B Enalrged Science Rooms Plan
1/4" = 1'-0"



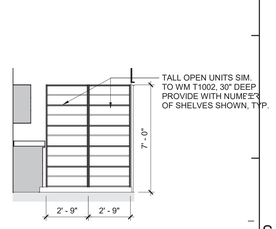
5 General Science B119
1/4" = 1'-0"



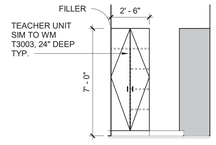
4 Greenhouse 121A
1/4" = 1'-0"



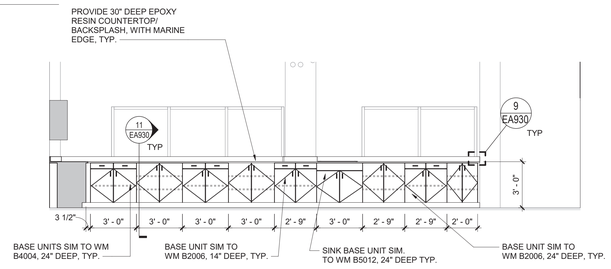
3 Prep 120B
1/4" = 1'-0"



2 Prep 120B
1/4" = 1'-0"



8 Greenhouse 121A
1/4" = 1'-0"



7 General Science B119
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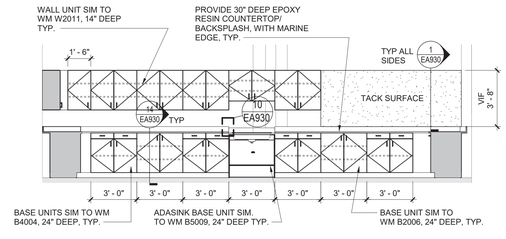
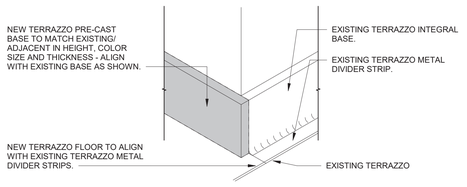
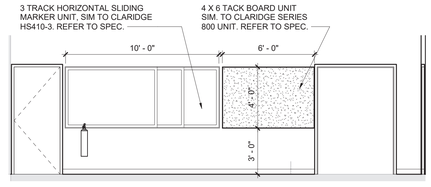


6 General Science B119
1/4" = 1'-0"



10 Terrazzo Base at New Opening
1 1/2" = 1'-0"



9 General Science B119
1/4" = 1'-0"

Room Finish Key

EF	EPOXY FLOORING - POURED
RF	RESINOUS FLOORING - EPOXY
LVT	LUXURY VINYL TILE
MCS	MOISTURE CONTROL SYSTEM
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T1	TERRAZZO - TYPE 1 - POURED EPOXY
TB	TERRAZZO BASE - PRECAST
VCT1	VINYL COMPOSITION TILE - TYPE 1

* SEE REFLECTED CEILING PLAN

INDICATED CHANGE IN FLOOR FINISH

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FINISHES SHOWN IN ROOM FINISH BOX ARE FOR ALL WALLS AND ENTIRE FLOOR AND CEILING REFER TO EACH ROOM FOR MORE INFORMATION.

RM#	
CLG*	WALL
FLR	BASE

Window Treatment Key

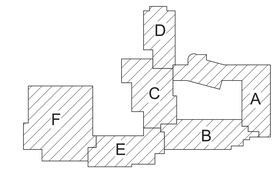
INDICATES AREAS OF WINDOW TREATMENTS

Window Treatment Notes

THIS DRAWING IS FOR LOCATION OF WINDOW TREATMENTS ONLY, SPECIFICATIONS SECTION AND ARCH. DRAWINGS FOR SIZES AND ADDITIONAL PRODUCT INFORMATION.

SHADE SIZES SHALL BE COORDINATED WITH WINDOWS, INCLUDING ALL RESCUE WINDOW REQUIREMENTS.

REFER TO DRAWING EA930 FOR GENERAL FINISH NOTES
REFER TO DRAWING EA930 FOR CASEWORK NOTES



Key Plan
N.T.S.

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

Rev. No.:	Date:	Description:

BEACON CITY SCHOOL DISTRICT WHERE EXCELLENCE IS THE STANDARD

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

BID SET

TETRA TECH ARCHITECTS & ENGINEERS

Beacon City School District
Beacon, New York

Reconstruction to:
Rombout Middle School

Enlarged Plans

Drawn By:	Date:	Drawing Number:
Author	10/28/2022	EA921

Project No.: 279180-22004

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,

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

B. ALL EXPOSED STRUCTURES, INCLUDING BUT NOT LIMITED TO PIPING AND FIREPROOFING, CONDUIT, AND ALL ASSOCIATED EQUIPMENT ARE TO BE PAINTED.

C. 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:
- FEC 'S. LADDERS, 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.

D. PATTERNS FOR FLOORS AND WALLS ARE TO BE ISSUED DURING THE CONSTRUCTION PHASE. 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:
- TERRAZZO AND BASE
- VCT
- LVT
- RUBBER

E. 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
- SOFFITS, ACCENT COLOR
- DOOR AND WINDOW FRAMES, ACCENT COLOR
- EXPOSED COLUMNS, ACCENT COLOR
- EXPOSED DECKS, ACCENT COLOR
- EXPOSED JOISTS, ACCENT COLOR
- EXPOSED DUCTWORK, ACCENT COLOR

F. PROVIDE PAINT AT ALL NEW SOFFITS, REFER TO REFLECTIVE CEILING PLANS FOR ADDITIONAL LOCATIONS.

G. ALL EXPOSED BRICK, GROUND FACE BLOCK IS TO REMAIN UNPAINTED, UNO.

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

I. PROVIDE PAINT AND RUBBER BASE AT ALL NEW CHASES, REFER TO NEW WORK PLANS FOR ADDITIONAL LOCATIONS.

J. 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 OWNER. REFER TO SPEC SECTION 01 23 00 ALTERATION PROJECT PROCEDURES FOR MORE INFORMATION.

K. FIELD VERIFY ALL CONTROL JOINTS LOCATIONS IN CONCRETE SLAB. LOCATE CONTROL JOINTS IN EXG/NEW FLOOR FINISH MATERIAL DIRECTLY ABOVE SLAB JOINTS OR AS RECOMMENDED BY FLOORING MATERIAL MANUFACTURER
- AT NEW SLABS REFER TO STRUCTURAL DRAWINGS FOR SLAB CONTROL JOINT LOCATIONS.
- AT EXISTING SLABS, FIELD VERIFY LOCATIONS OF EXISTING LAB CONTROL JOINTS.
- REFER TO FINISH DRAWINGS AND SPECIFICATIONS FOR NEW FLOOR MATERIALS.
COORDINATE FLOOR PATTERNS WITH CONTROL JOINT PRIOR TO SUBMISSION OF REQUIRED FLOOR PATTERN DRAWINGS.

L. INSTALLER IS TO FIELD VERIFY ALL EXG AND NEW FLOOR DRAIN LOCATIONS IN ALL EXG AND NEW SLABS AS PART OF THIS PROJECT.
* 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 SLAB DEPRESSION DEPTH REQUIREMENTS.

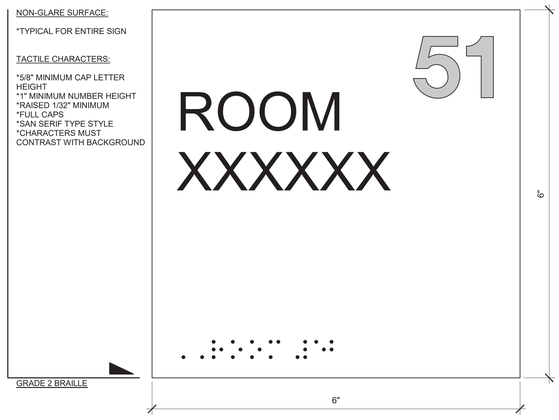
M. PROVIDE ALL FINISHES AS INDICATED BY ROOM FINISH BOX AND/OR AS NOTED ON DRAWINGS.

NON-GLARE SURFACE:

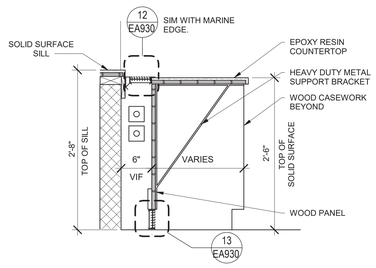
*TYPICAL FOR ENTIRE SIGN

TACTILE CHARACTERS:

*5/8" MINIMUM CAP LETTER HEIGHT
*1" MINIMUM NUMBER HEIGHT
*RAISED 1/32" MINIMUM
*FULL CAPS
*SAN SERIF TYPE STYLE
*CHARACTERS MUST CONTRAST WITH BACKGROUND



TYPE 5 - Typical Permanent Room Plaque



16 Open Casework/ Fin Tube Section
1" = 1'-0"

General Wood Casework Notes

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

A. THE CASEWORK SHOWN ON THE DRAWINGS IS BASED ON WOOD METAL WOOD CASEWORK. REFER TO THE PROJECT MANUAL, SECTION 12 32 13 FOR DETAILED SPECIFICATIONS.

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

C. 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.

E. 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.

F. 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. 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 DETAIL.

I. PROVIDE COUNTERTOP CUT-OUTS FOR SINK , FAUCETS, AIR AND/OR GAS COCKS, COORDINATE WITH ALL REQUIRED CONTRACTORS.

J. PROVIDE CUTS AT ALL CONDITIONS THAT INTERFERE WITH COUNTERTOPS/CABINETS: SCRIBE TO FIT.

K. 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.

L. 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

M. 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 ALL CABINETS.

N. PROVIDE SHOP DRAWINGS SHOWING LOCATIONS AND DETAILS FOR ALL GRILLES, LOUVERS, REMOVABLE PANELS, VALVE LOCATIONS ECT. ASSOCIATED WITH CASEWORK COORDINATE WITH ALL REQUIRED CONTRACTORS.

O. PROVIDE CABINETS WITH FINISHED SIDES, INCLUDING BUT NOT LIMITED TO LOCATIONS OF ADJACENT CABINETS OR EQUIPMENT WITH A DEPTH LESS THAN CABINET OR EQUIPMENT.

P. 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: OUTLETS, SWITCHES, LIGHTS ETC.

Q. 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.

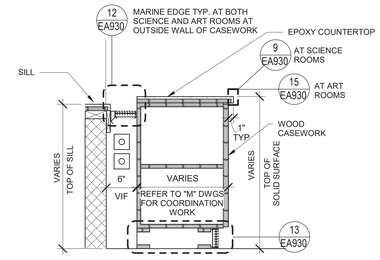
R. PROVIDE LOCKS AT ALL CASEWORK DOORS/DRAWERS AND FILE UNITS TYP.

S. PROVIDE AS NOTED ON DRAWINGS AND DETAILS: 2" GROMMETS AT OPEN BASE COUNTERS 30"/36" OC, WIRE MANAGEMENT AND CABLE TRAYS.

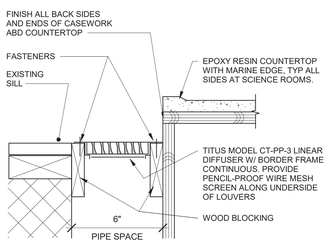
T. PROVIDE ALL CUTOUTS AS SHOWN ON CASEWORK PLANS AND ELEVATIONS OR AS REQUIRED. CUTOUTS ARE TO INCLUDE BUT NOT LIMITED TO: ALL ELEC BOXES, OUTLETS, AND ASSOCIATED WIRING AND FINAL HOOK-UP.

U. PROVIDE REMOVABLE BACK PANELS AT ALL SINK BASE CABINETS, INCLUDING ADA STATIONS.

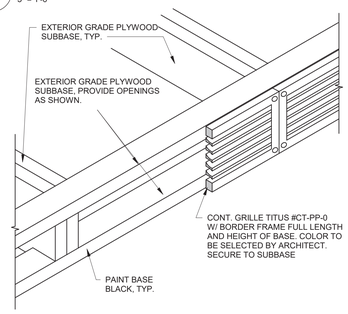
V. REFER TO BOTH 1/8" AND 1/4" PLANS FOR LAYOUTS.



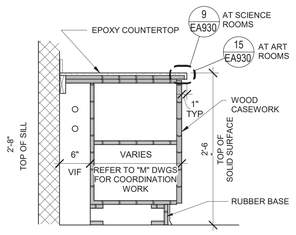
11 Casework/ Fin Tube Sections
1" = 1'-0"



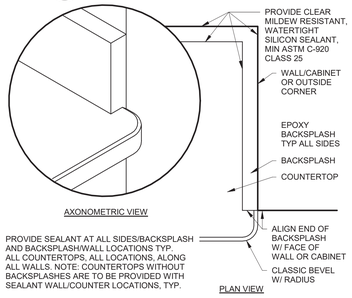
12 Grille @ Epoxy Resin Countertop
3" = 1'-0"



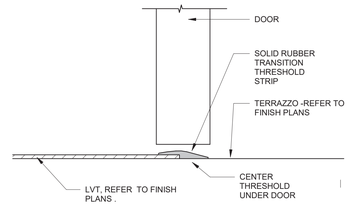
13 Base/ Grille Detail
3" = 1'-0"



14 Casework/ Fin Tube Sections
1" = 1'-0"

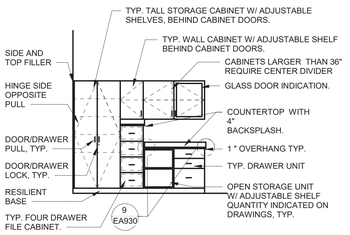


15 Epoxy Countertop Non Marine Edge Detail at Art Rooms
3" = 1'-0"



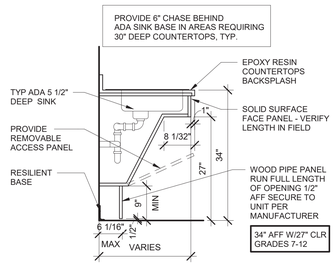
NOTE:
REFER TO SPECIFICATIONS FOR TRANSITION TYPES.
REFER TO FINISH PLANS FOR ALL LOCATIONS, TYPICAL .
THRESHOLD TO MEET ALL ADA CRITERIA
RATED DOOR UNDERCUT DISTANCE TO MEET REQUIRED NFPA CRITERIA.

6 Threshold Detail
6" = 1'-0"

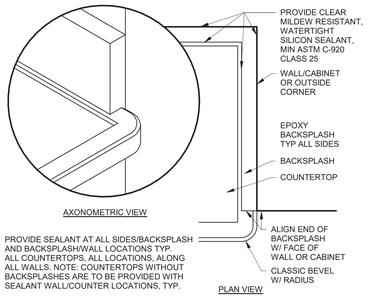


NOTE:
SEE SPECIFICATION SECTION 123216 FOR MORE INFORMATION INCLUDING CONSTRUCTION OF CASEWORK COMPONENTS.

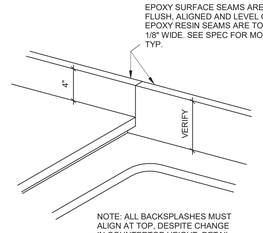
7 Typical Casework Designations
1/4" = 1'-0"



8 ADA Sink Base
3/4" = 1'-0"

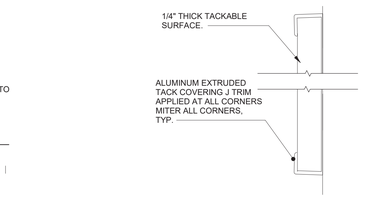


9 Epoxy Countertop Edge Detail at Science Rooms
3" = 1'-0"

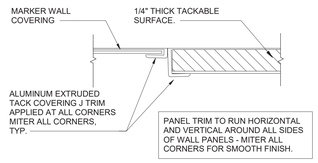


NOTE: ALL BACKSPLASHES MUST ALIGN AT TOP, DESPITE CHANGE IN COUNTERTOP HEIGHT. DETAIL TYPE FOR PLAM, EPOXY AND SOLID SURFACE COUNTERTOPS.

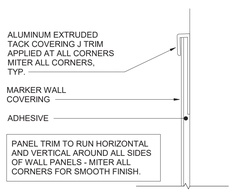
10 Backsplash Detail @ Countertop
1 1/2" = 1'-0"



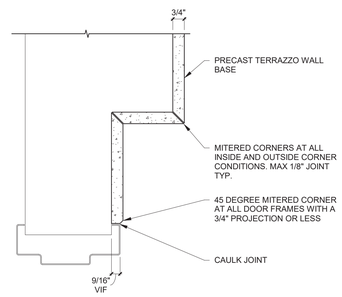
1 Wall Covering Trim Detail
12" = 1'-0"



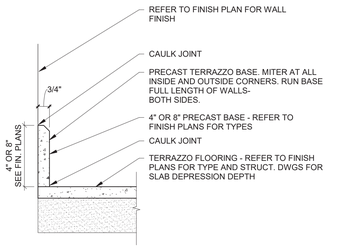
2 Wall Covering Trim Detail
12" = 1'-0"



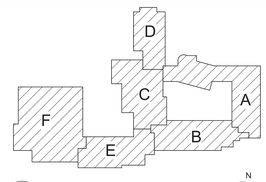
3 Wall Covering Trim Detail -Top
12" = 1'-0"



4 Terrazzo Base w/ Mitered Corner
3" = 1'-0"



5 Terrazzo Base
3" = 1'-0"



Key Plan
N.T.S.

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

Rev. No.:	Date:	Description:

BEACON CITY SCHOOL DISTRICT WHERE EXCELLENCE IS THE STANDARD

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

BID SET

TETRA TECH ARCHITECTS & ENGINEERS

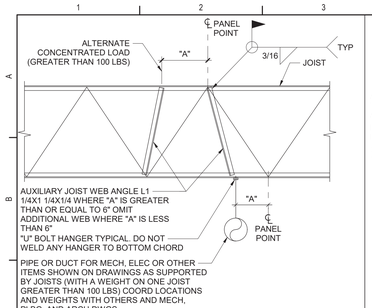
Beacon City School District
Beacon, New York

Reconstruction to:
Rombout Middle School

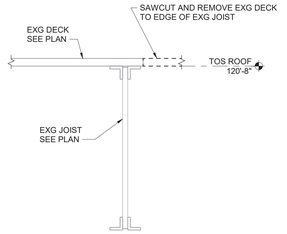
Miscellaneous Details

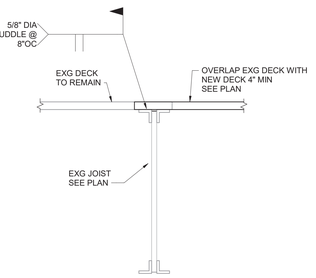
Drawn By:	Date:	Drawing Number:
Author	10/28/2022	EA930

Project No.: 279180-22004

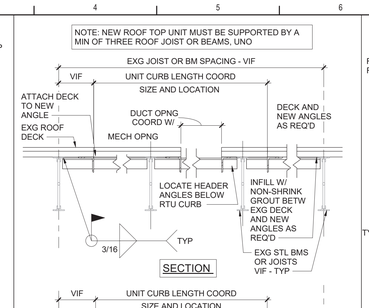


7 Typ Auxiliary Joist Web Member and Hanger
3/4" = 1'-0"

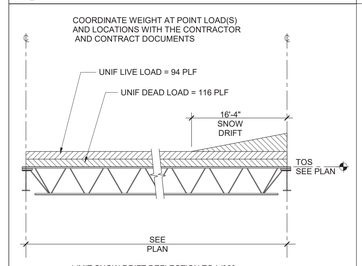




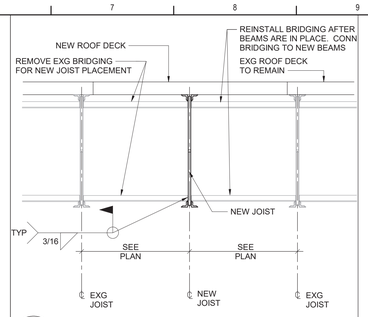
8 Deck Bearing at Exg Joist
1" = 1'-0"



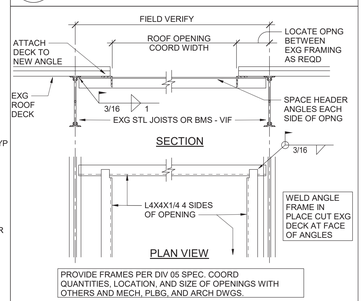
5 Typ Roof Frame at Exg for New RTU
3/4" = 1'-0"



6 12KSP1 Special Joist Loading Diagram
1/4" = 1'-0"



3 Typ Existing Bridging Detail
1" = 1'-0"



PROVIDE FRAMES PER DIV 05 SPEC. COORD QUANTITIES, LOCATION, AND SIZE OF OPENINGS WITH OTHERS AND MECH, PLBG, AND ARCH DWGS.

4 Typ Roof Frame For New Opng at Exg
3/4" = 1'-0"

COMPONENTS & CLADDING WIND PRESSURE (PSF)

MEAN ROOF HEIGHT, "h" (FT)	EFFECTIVE WIND AREA (SQ FT)	ROOF									
		ZONE 1'		ZONE 1		ZONE 2		ZONE 3			
		MIDDLE INTERIOR		INTERIOR		EDGE		OVERHANG	CORNER		OVERHANG
13.00	≤ 10	-24.1	16.0	-42.0	16.0	-55.4	16.0	-51.3	-75.4	16.0	-71.4
	20	-24.1	16.0	-39.2	16.0	-51.8	16.0	-46.6	-68.3	16.0	-63.1
	50	-24.1	16.0	-35.5	16.0	-47.1	16.0	-40.3	-58.9	16.0	-52.1
	100	-24.1	16.0	-32.8	16.0	-43.5	16.0	-35.6	-51.8	16.0	-43.8
	≥ 500	-16.3	16.0	-26.3	16.0	-35.3	16.0	-24.6	-35.3	16.0	-24.6

NOTES:

1. MEAN ROOF HEIGHT IS MEASURED ABOVE GROUND FLOOR ELEVATION.

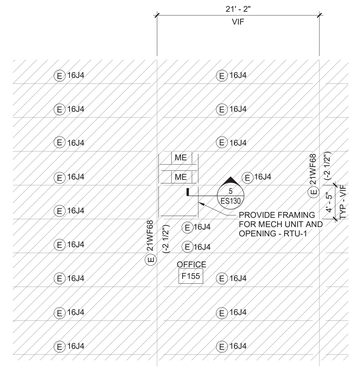
2. REFER TO ASCE 7-16 FOR DEFINITION OF TERMS. FOR THE DIMENSIONS OF EACH ZONE, REFERENCE FIGURE 30.4-1 IN ASCE 7-16 AND USE "h" FROM ABOVE TABLE TO DETERMINE 0.6h AND 0.2h.

3. THESE TABLES ARE TO BE USED FOR WIND LOAD CONTRIBUTION TO TOTAL LOAD ACTING ON ANY COMPONENT OR CLADDING MEMBER WHICH IS PART OF A ROOF OR EXTERIOR WALL ASSEMBLY. EXAMPLES OF COMPONENTS AND CLADDING INCLUDE, BUT ARE NOT LIMITED TO ROOF JOISTS, WALL STUDS, ROOF DECK FASTENERS, VENEER TIES, WINDOWS, AND THEIR ATTACHMENTS.

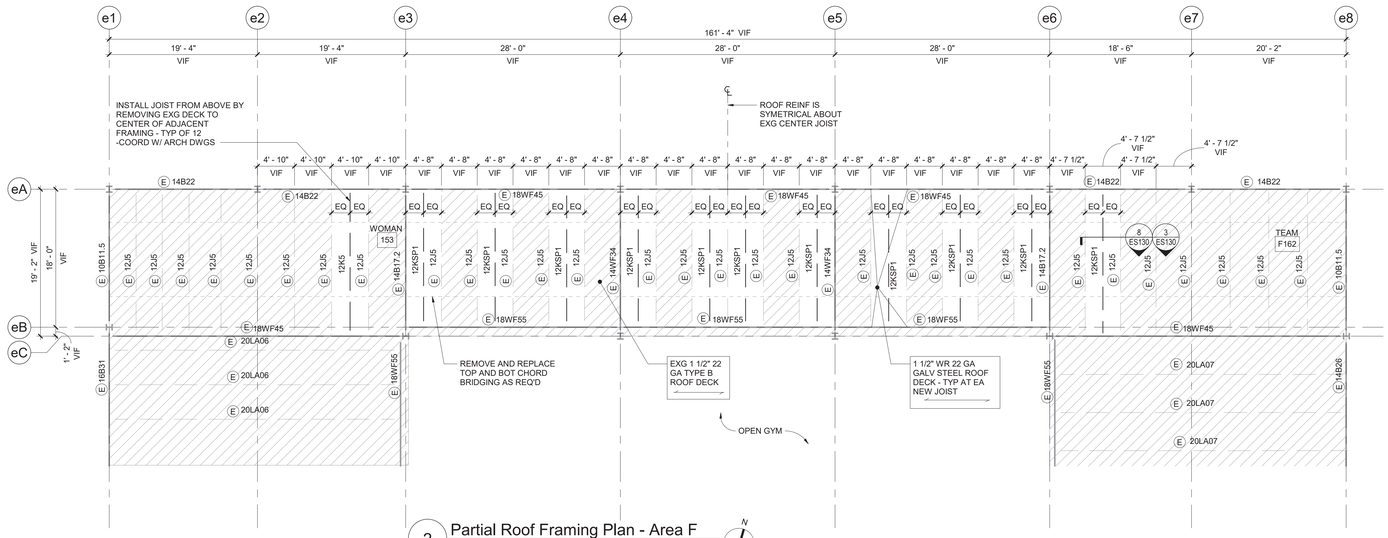
4. FOR EFFECTIVE WIND AREA VALUES LISTED IN THE TABLE ABOVE, PRESSURE VALUES MAY INTERPOLATE; OTHERWISE USE THE VALUE ASSOCIATED WITH THE LOWER EFFECTIVE WIND AREA.

5. POSITIVE PRESSURES (+) ACT TOWARDS THE BUILDING, NEGATIVE PRESSURES (-) ACT AWAY FROM THE BUILDING, POSITIVE AND NEGATIVE PRESSURES DO NOT ACT SIMULTANEOUSLY. PRESSURES ARE APPLIED TO THE SURFACE OF THE COMPONENT OR CLADDING.

6. DESIGN VALUES SHOWN IN THIS TABLE ARE ULTIMATE VALUES FOR USE WITH LRFD DESIGN. VALUES MAY BE MULTIPLIED BY 0.6 FOR USE WITH SERVICE LEVEL OR ASD DESIGN. REFER TO THE BUILDING CODE FOR APPLICABLE LOAD COMBINATIONS.



1 Partial Roof Framing Plan - Area F
1/8" = 1'-0"
DATUM FOR EXG TOS IS AT ELEVATION 117'-3" - VIF



2 Partial Roof Framing Plan - Area F
1/8" = 1'-0"
DATUM FOR EXG TOS IS AT ELEVATION 113'-0" - VIF

1. FOR 4" THICK WALLS

MASONRY OPENING	LINTEL ANGLE
UP TO 6'-4"	MT 6X5.9

2. FOR 6" THICK WALLS

MASONRY OPENING (-L)	LINTEL ANGLE
5'-0"	2- L2 1/2X2 1/2X5/16
6'-0"	2- L3X2 1/2X5/16 LLV
7'-0"	2- L3 1/2X2 1/2X5/16 LLV
8'-0"	2- L3 1/2X2 1/2X5/16 LLV

3. FOR 8", 12", AND 16" THICK WALLS: FOR EACH 4" THICKNESS OF WALL

MASONRY OPENING (-S)	LINTEL ANGLE
5'-0"	L3 1/2X3 1/2X5/16
6'-0"	L4X3 1/2X 5/16 LLV
7'-0"	L5X3 1/2X5/16 LLV
8'-0"	L5X3 1/2X5/16 LLV
9'-0"	L6X3 1/2X5/16 LLV
10'-0"	L6X3 1/2X5/16 LLV

LINTEL NOTES

1. ALL OPENINGS 1'-0" AND OVER REQUIRE LINTELS.
2. STEEL TO BE A36.
3. THIS SCHEDULE IS TYPICAL FOR ALL MASONRY OPENINGS IN NON-LOAD BEARING WALLS UNLESS OTHERWISE NOTED.
4. ALL LINTELS TO HAVE MINIMUM 8" BEARING BOTH ENDS.
5. BACK TO BACK ANGLES ARE TO BE STITCH WELDED TOGETHER BEFORE PLACEMENT.
6. ALL LINTELS ARE TO HAVE BOTH ENDS BEAR ON SOLID MASONRY OR SOLIDLY GROUTED HOLLOW MASONRY.
7. WHERE MINIMUM 8" BEARING LENGTH CANNOT BE PROVIDED DUE TO COLUMN INTERFERENCE, PROVIDE CONNECTION OF LINTEL TO COLUMN.
8. THIS LINTEL SCHEDULE IS APPLICABLE FOR USE IN EXISTING BUILDING. SHORE EXISTING STRUCTURE AND WALL AS REQD FOR INSTALLATION OF NEW MAS AND LINTEL. SEE ARCHITECTURAL AND MECHANICAL DRAWINGS FOR SIZE AND LOCATION OF OPENINGS.

9 Lintel Schedule
12" = 1'-0"

Structural Loads:

A. ROOF LIVE LOADS PER BCNYS 1607.13
MINIMUM ROOF LIVE LOAD 20 PSF

B. RAIN LOADS PER BCNYS 1611
RAIN INTENSITY, I 2.75 IN/HR
RAIN LOAD, R 16 PSF

RAIN SURCHARGE LOAD HAS BEEN APPLIED TO AREAS WHERE PONDING OCCURS IN ACCORDANCE WITH BCNYS 1611.1.

C. SNOW LOADS PER BCNYS 1608
GROUND SNOW, P_g (FIGURE 1608.2) 30 PSF
FLAT ROOF SNOW LOAD, P_f (ASCE 7) 23.1 PSF
SNOW EXPOSURE FACTOR, C_e 1.0
THERMAL FACTOR, C_t 1.0
SLOPE FACTOR, C 1.0
SNOW LOAD IMPORTANCE FACTOR, I_S 1.1
DRIFT SURCHARGE, P_d 73 PSF
DRIFT WIDTH, w 16.33 FT

ADDITIONAL SNOW LOADS HAVE BEEN APPLIED TO AREAS WHERE DRIFTING OCCURS IN ACCORDANCE WITH BCNYS 1608.

D. WIND LOAD DESIGN CRITERIA PER BCNYS 1609
BASIC DESIGN WIND SPEED (3 SECOND GUST), V 121 MPH
ALLOWABLE STRESS DESIGN WIND SPEED, V_{asd} 93.7MPH
RISK CATEGORY I I I
EXPOSURE CATEGORY B
INTERNAL PRESSURE COEFFICIENT, GCP, +/- 0.18

E. SEISMIC DESIGN CRITERIA PER BCNYS 1613
RISK CATEGORY I I I
SEISMIC IMPORTANCE FACTOR, I_e 1.25
MAPPED SPECTRAL RESPONSE ACCELERATION
AT SHORT PERIODS, S_S 23.3 %g
AT 1 SECOND PERIODS, S_1 5.7 %g
SITE CLASS D (DEFAULT)
DESIGN SPECTRAL RESPONSE ACCELERATION
AT SHORT PERIODS, S_{DS} 24.8 %g
AT 1 SECOND PERIODS, S_{D1} 9.1 %g
SEISMIC DESIGN CATEGORY B

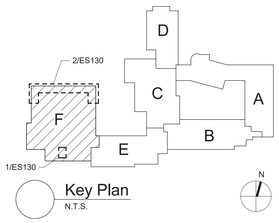
F. MECH UNITS
RTU-1 1,620LBS

General Notes:

A. DIMENSIONS AND ELEVATIONS SHOWN ON PLAN AS PLUS/MINUS (+/-) AND VIF ARE TO BE CONSIDERED APPROXIMATE. EXACT VALUES FOR ALL (+/-) AND VIF DIMENSIONS ARE TO BE DETERMINED BY THE CONTRACTOR IN THE FIELD THROUGH A PRELIMINARY BUILDING LAYOUT CONTRACTOR TO VERIFY EXISTING DIMENSIONS, ELEVATIONS AND CONDITIONS AND NOTIFY A/E OF ANY DISCREPANCIES PRIOR TO COMMENCING WORK. COORDINATE INFORMATION WITH OTHER TRADES.

B. PROVIDE ALL ROOF AND FLOOR OPENING FRAMES PER DIV 05 SPEC. COORDINATE QUANTITIES, LOCATION, AND SIZE OF OPENINGS WITH OTHERS AND MECH, PLBG, AND ARCH DWGS. .

C. ROOF DECK TO BE GALVANIZED 1 1/2" WIDE RIBBED 20 GAUGE CORRUGATED STEEL UNLESS OTHERWISE NOTED



Key Plan
N.T.S.

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

Rev. No.:	Date:	Description:

BEACON CITY SCHOOL DISTRICT WHERE EXCELLENCE IS THE STANDARD

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BID SET

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

TETRA TECH ARCHITECTS & ENGINEERS

Beacon City School District
Beacon, New York

Reconstruction to:
Rombout Middle School

Partial Framing Plans - Area F
Notes, Schedules, and Details

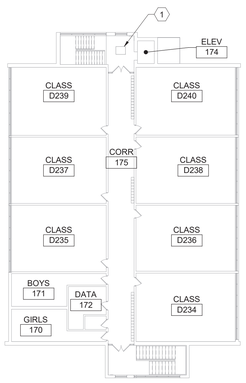
Drawn By:	Date:	Drawing Number:
DJB/kjr	10/28/2022	ES130
Project No.: 279180-22004		

KEYED NOTES:

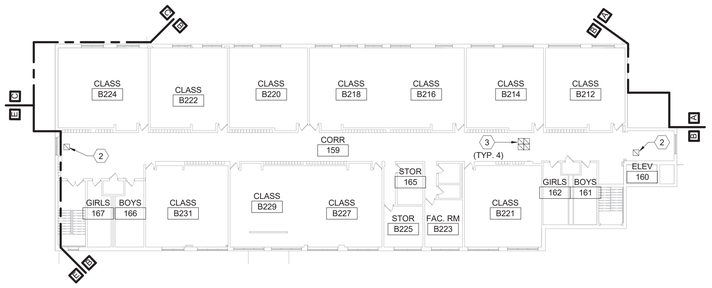
1. BY ALT. NO. 7: REMOVE CEILING CUH FACEPLATE. SAND BLAST, PAINT AND REINSTALL CUH FACEPLATE. COORDINATE WITH CEILING REPLACEMENT.
2. BY ALT. NO. 10: DISCONNECT GRILLE FROM DUCTWORK. STORE GRILLE FOR REUSE. COORDINATE WITH CEILING REPLACEMENT. REINSTALL AND RECONNECT GRILLE IN CEILING. PROVIDE DUCT MODIFICATIONS AS REQUIRED.
3. BY ALT. NO. 10: REMOVE (UNDUCTED) GRILLE FROM CEILING. STORE GRILLE FOR REUSE. COORDINATE WITH CEILING REPLACEMENT. REINSTALL GRILLE IN CEILING.

General Notes

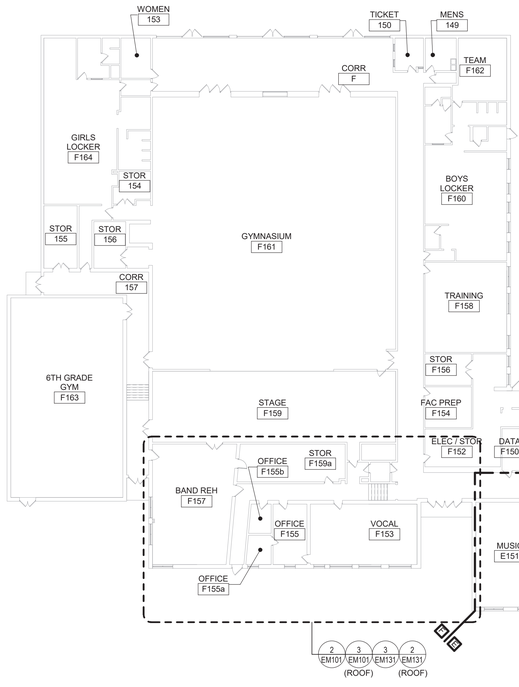
A. THE FOLLOWING GENERAL NOTES APPLY TO ALL "EM" SERIES DRAWINGS.
B. REFER TO ALL CONTRACT DOCUMENTS; DRAWINGS AND SPECIFICATIONS, FOR DETAILED STANDARDS AND REQUIREMENTS.
C. REPORT UNSAFE OR UNSATISFACTORY CONDITIONS IN WRITING TO ARCHITECT AND RESOLVE ISSUES BEFORE PROCEEDING.
D. WORK INCLUDES ALL LABOR AND MATERIALS REQUIRED TO PROVIDE COMPLETE WORKING SYSTEMS.
E. COORDINATE PHASING REQUIREMENTS AT JOB MEETINGS AND ON WORK SCHEDULES.
F. DO NOT SCALE DRAWINGS. PIPING AND DUCTWORK ARE SHOWN DIAGRAMMATICALLY. IT IS NOT POSSIBLE TO SHOW EVERY TRANSITION, FITTING, ASPECT RATIO CHANGE, ETC..; PROVIDE AS REQUIRED TO FIT WITHIN STRUCTURAL CONSTRAINTS. EXAMINE CONDITIONS UNDER WHICH THE WORK IS TO BE PERFORMED AND VERIFY ALL ACCESS, LOCATIONS, DIMENSIONS, ARRANGEMENTS, ELECTRICAL CHARACTERISTICS AND INTERFERENCE IN THE FIELD PRIOR TO BID.
G. VERIFY EXTENT OF CEILING WORK SHOWN ELSEWHERE IN THE CONTRACT DOCUMENTS. PROVIDE FOR ADDITIONAL CEILING SYSTEM REMOVAL, PROTECTION, AND REINSTALLATION AS REQUIRED FOR CONTRACT WORK.
H. DEMOLITION DRAWINGS SHOW THE GENERAL SCOPE OF ITEMS AND SYSTEMS TO BE REMOVED. IT IS NOT THE INTENT TO SHOW ALL ITEMS TO BE REMOVED. FIELD VERIFY AND REMOVE ALL ASSOCIATED ITEMS BACK TO POINT OF CONTINUED SERVICE, UNLESS OTHERWISE NOTED. VERIFY WHAT ALL EQUIPMENT SERVES PRIOR TO REMOVAL.
I. GIVE ALL REMOVED EQUIPMENT TO THE OWNER. DELIVER ON SITE WHERE DESIGNATED BY THE OWNER. PROMPTLY REMOVE FROM THE SITE AND LEGALLY DISPOSE OF ANY SUCH ITEMS DECLINED BY OWNER.
J. IF UNANTICIPATED MECHANICAL, ELECTRICAL, OR STRUCTURAL CONFLICTS ARE ENCOUNTERED, INVESTIGATE AND REPORT BOTH NATURE AND EXTENT OF THE CONFLICT. RE-ROUTE WORK AS REQUIRED.
K. CUT, DRILL, OR OTHERWISE CREATE OPENINGS AS NEATLY AS POSSIBLE, AS REQUIRED FOR THE INDICATED CONTRACT WORK. PROVIDE SUPPORT AS REQUIRED FOR AND USE METHODS LEAST LIKELY TO DAMAGE ELEMENTS TO REMAIN. PRIOR TO WORK, VERIFY LOCATIONS OF ALL STRUCTURAL MEMBERS INCLUDING CROSS BRACING, ELECTRICAL WIRING, PLUMBING, ETC. PROMPTLY NOTIFY ARCHITECT OF ANY CONFLICTS. DO NOT CUT ANY STRUCTURAL MEMBERS OR OTHER SERVICES UNTIL SPECIFICALLY DIRECTED TO DO SO. PENDING RECEIPT OF DIRECTIVE, REARRANGE SCHEDULE AS NECESSARY TO CONTINUE OVERALL JOB PROGRESS WITHOUT DELAY.
L. PATCH ALL DISTURBANCES RESULTING FROM DEMOLITION OR NEW WORK TO MATCH SURROUNDING SURFACES. PATCH FOLLOWING DEMOLITION, AND AGAIN FOLLOWING WORK. WHERE HOLES REMAIN FROM REMOVALS, INFILL AND PATCH TO MATCH UNLESS HOLE IS TO BE REUSED.
M. PROTECT ALL CONTRACT EQUIPMENT, ELEMENTS TO REMAIN, OWNER'S BELONGINGS, AND EQUIPMENT TO BE REUSED OR RETAINED BY OWNER DURING ALL CONTRACT WORK. AT NO ADDITIONAL COST TO OWNER, REPAIR OR REPLACE ITEMS WHICH ARE DAMAGED.
N. THOROUGHLY CLEAN FOLLOWING DEMOLITION AND BEFORE BEGINNING CONTRACT INSTALLATIONS. THOROUGHLY CLEAN AGAIN DURING AND FOLLOWING CONTRACT WORK AS REQUIRED. LEAVE ALL WORK AREAS CLEANER THAN FOUND. LEGALLY DISPOSE OF ALL CONSTRUCTION DEBRIS.
O. PROVIDE TEMPORARY PIPING, DUCT, HEAT, WEATHERPROOFING, ETC. TO SERVICES TO REMAIN UNTIL PERMANENT INSTALLATIONS CAN BE MADE.
P. ALL EXCESS MATERIALS AND SCRAPS ARE CONTRACTOR'S PROPERTY. PROMPTLY REMOVE FROM SITE UNLESS SPECIFICALLY DIRECTED OTHERWISE.
Q. EXISTING HVAC COMPONENTS IN THIS BUILDING MAY CONTAIN, BE IN PROXIMITY TO, OR, WORK ON THEM MAY CAUSE DISTURBANCE OF, ASBESTOS CONTAINING OR OTHER HAZARDOUS MATERIALS. REFER TO ABATEMENT SERIES DRAWINGS AND SPECIFICATIONS COMPLETE FOR ADDITIONAL INFORMATION.
R. SEAL ALL FLOOR, WALL AND CEILING PENETRATIONS PER FIRE-RESISTANCE RATINGS NOTED ON EG-SERIES DRAWINGS, BUT NOT LESS THAN 1-HOUR, AND IN ACCORDANCE WITH SECTION 07 84 13 - PENETRATION FIRESTOPPING. THIS INCLUDES ALL NEW PENETRATIONS AND EXISTING UNFIRESTOPPED PENETRATIONS CREATED BY REMOVALS, AS REQUIRED TO PERFORM THE WORK.

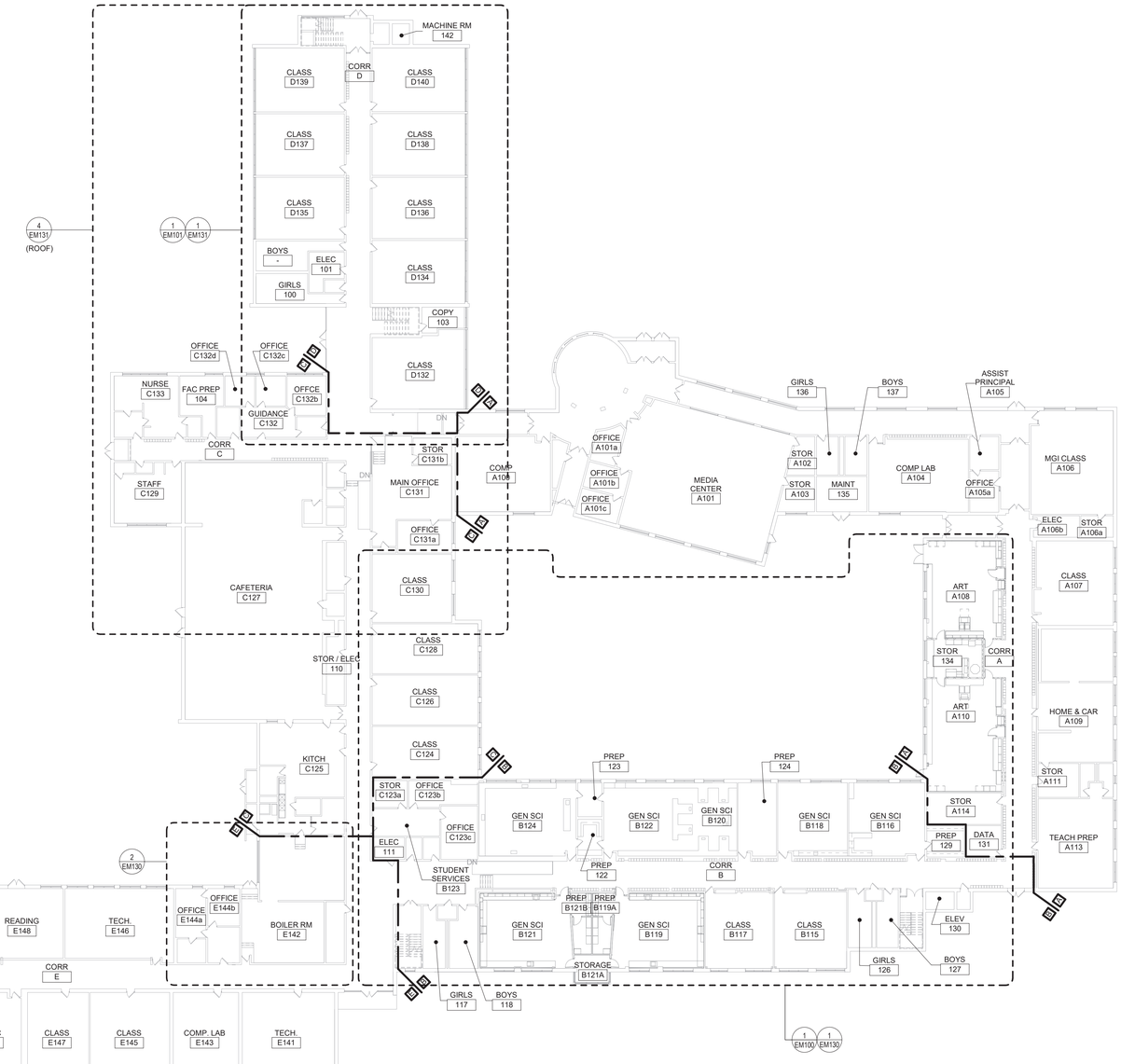


2 Second Floor - Area D Key Plan
3/64" = 1'-0"

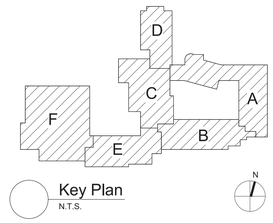


3 Second Floor - Area B Key Plan
3/64" = 1'-0"





1 First Floor Key Plan
3/64" = 1'-0"



Key Plan
N.T.S.

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

Rev. No.:	Date:	Description:

BEACON CITY SCHOOL DISTRICT WHERE EXCELLENCE IS THE STANDARD

complex world | CLEAR SOLUTIONS

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

BID SET

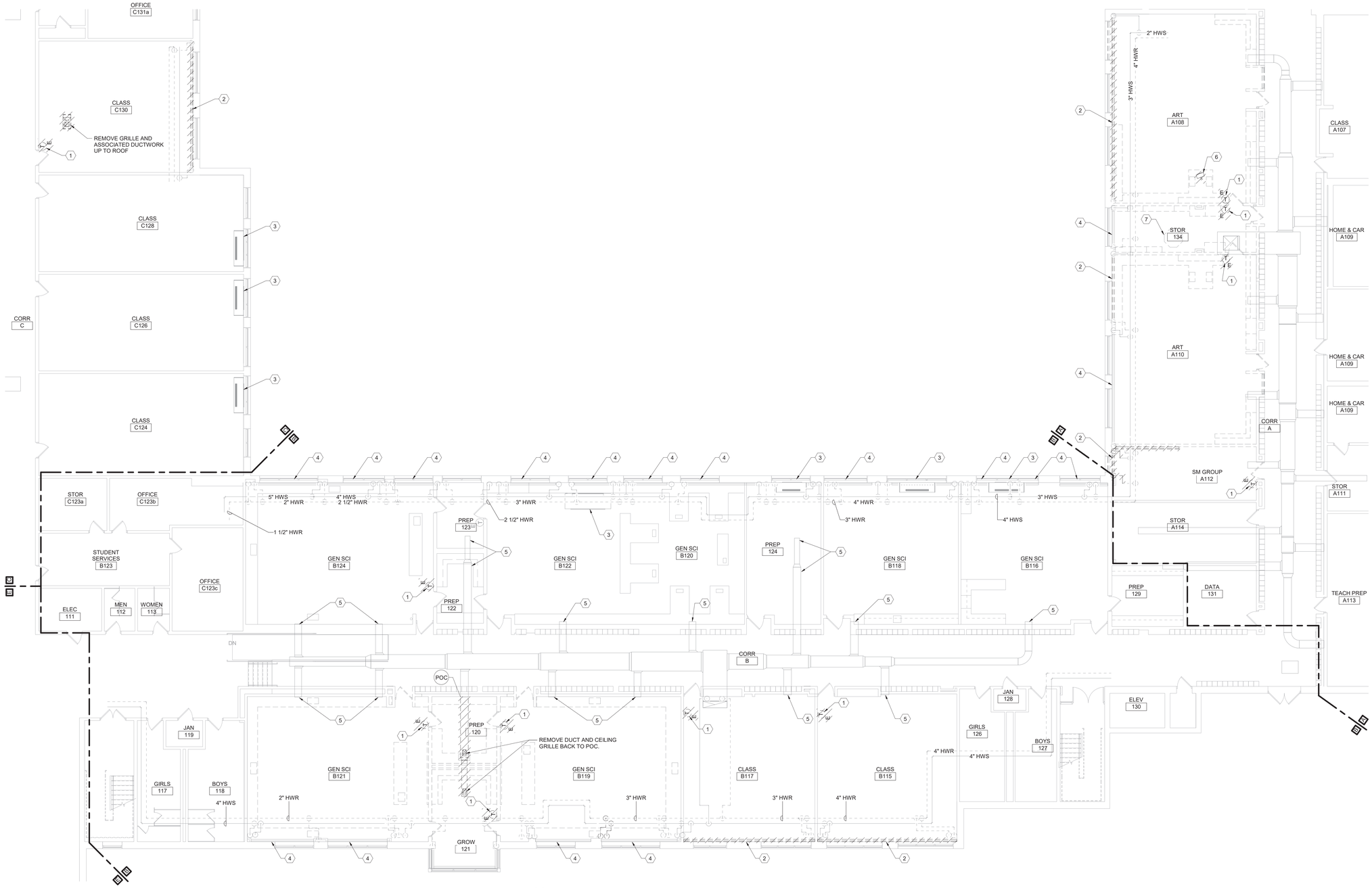
TETRA TECH ARCHITECTS & ENGINEERS

Beacon City School District
Beacon, New York

Reconstruction to:
Rombout Middle School

First Floor and Second Floor Key Plans

Drawn By:	Date:	Drawing Number:
JPF1/pgm	10/28/2022	EM051
Project No.: 279180-22004		



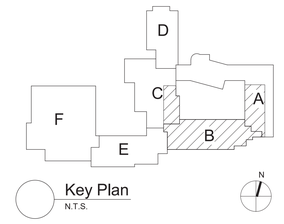
1 First Floor Demolition Plan - Partial Area A, Area B and Partial Area C
1/8" = 1'-0"

General Notes

A. REFER TO EM051 FOR GENERAL NOTES.

KEYED DEMOLITION NOTES:

1. REMOVE THERMOSTAT AND ASSOCIATED ACCESSORIES.
2. REMOVE FINNED TUBE RADIATION OR CONVECTOR AND ALL ASSOCIATED ACCESSORIES COMPLETE. REMOVE TERMINAL HWS/HWR PIPING BACK TO WALL CHASE AND PREPARE FOR RECONNECTION.
3. UNIT VENTILATOR TO REMAIN.
4. FINNED TUBE RADIATION OR CONVECTOR TO REMAIN.
5. WALL GRILLE TO REMAIN.
6. REMOVE UNIT HEATER AND ALL ASSOCIATED ACCESSORIES COMPLETE.
7. CAREFULLY REMOVE KILN EXHAUST HOOD, FAN, WALL SUPPORTS AND ASSOCIATED ACCESSORIES FOR REUSE.



Key Plan
N.T.S.

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

Rev. No.:	Date:	Description:

BEACON CITY SCHOOL DISTRICT — WHERE EXCELLENCE IS THE STANDARD

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

BID SET

TETRA TECH ARCHITECTS & ENGINEERS

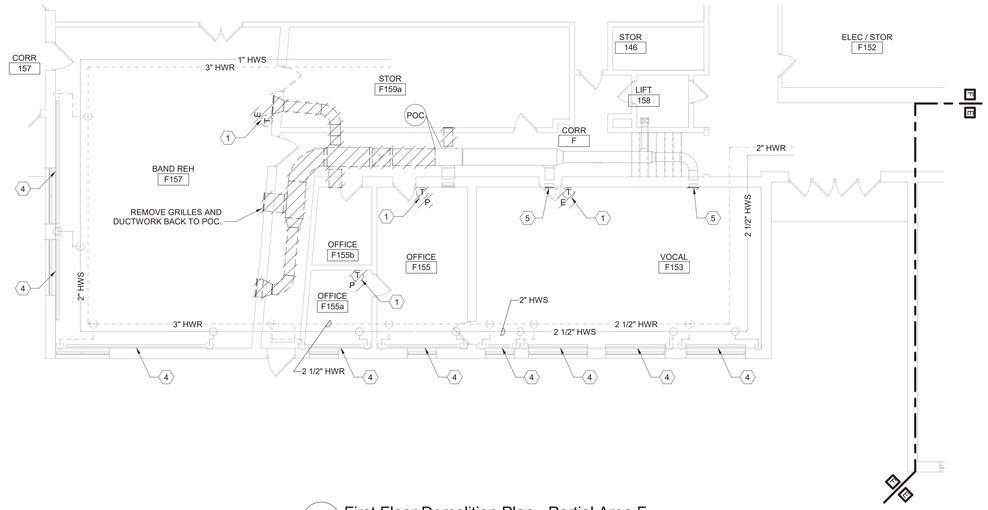
Beacon City School District
Beacon, New York

Reconstruction to:
Rombout Middle School

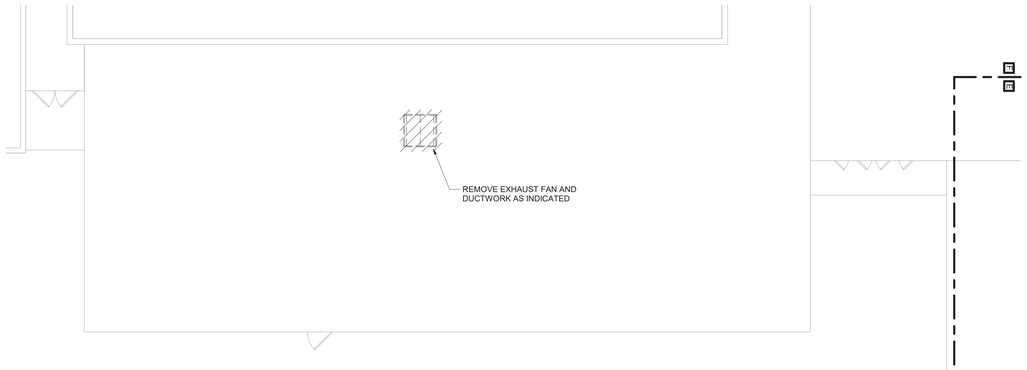
First Floor Demolition Plan - Partial Area A, Area B and Partial Area C

Drawn By:	Date:	Drawing Number:
JPF1/pgm	10/28/2022	EM100

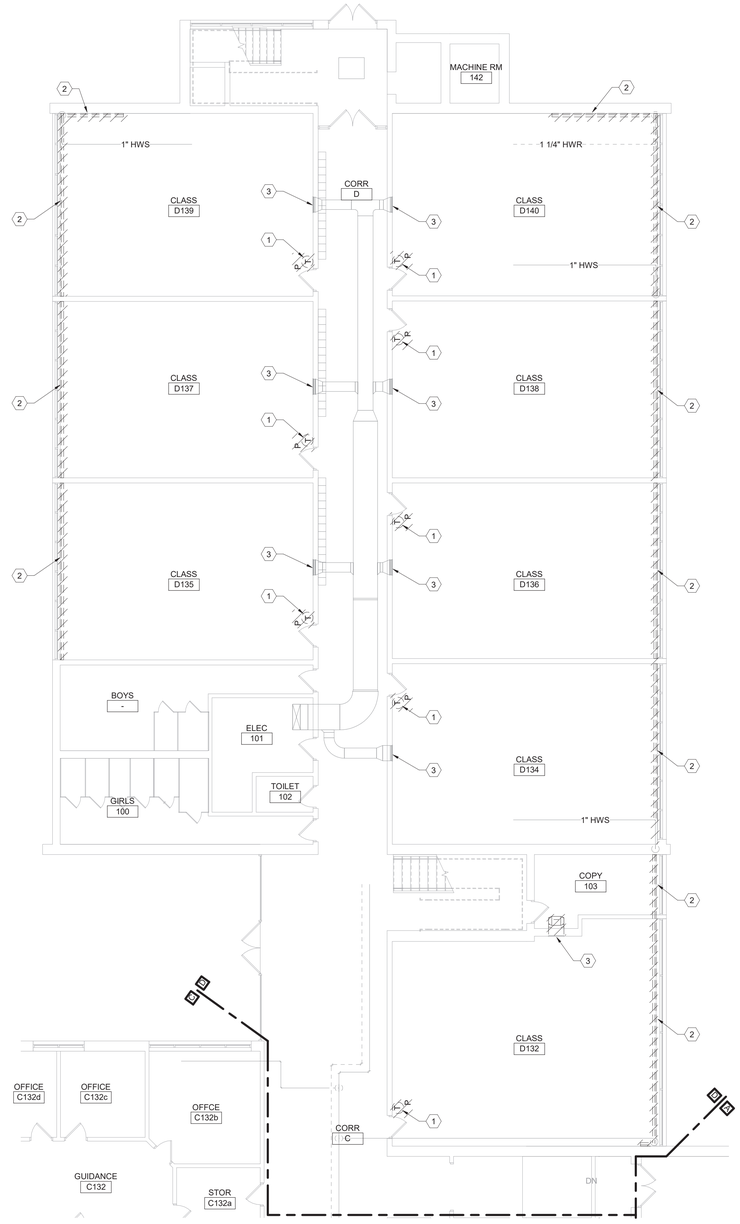
Project No.: 279180-22004



2 First Floor Demolition Plan - Partial Area F
1/8" = 1'-0"



3 Roof Demolition Plan - Partial Area F
1/8" = 1'-0"



1 First Floor Demolition Plan - Area D
1/8" = 1'-0"

General Notes

A. REFER TO EM051 FOR GENERAL NOTES.

KEYED DEMOLITION NOTES:

1. REMOVE THERMOSTAT AND ASSOCIATED ACCESSORIES. PREPARE FOR RECONNECTION.
2. REMOVE FINNED TUBE RADIATION OR CONVECTOR AND ALL ASSOCIATED ACCESSORIES COMPLETE. REMOVE TERMINAL HWS/HWR PIPING BACK TO WALL CHASE AND PREPARE FOR RECONNECTION.
3. WALL GRILLE TO REMAIN.
4. FINNED TUBE RADIATION OR CONVECTOR TO REMAIN.
5. REMOVE WALL GRILLE. PREPARE DUCT FOR RECONNECTION.

Key Plan
N.T.S.

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

Rev. No.:	Date:	Description:

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TETRA TECH
ARCHITECTS & ENGINEERS

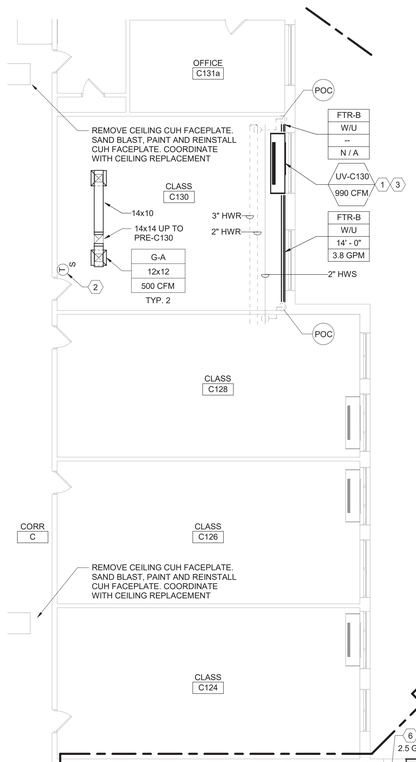
Beacon City School District
Beacon, New York

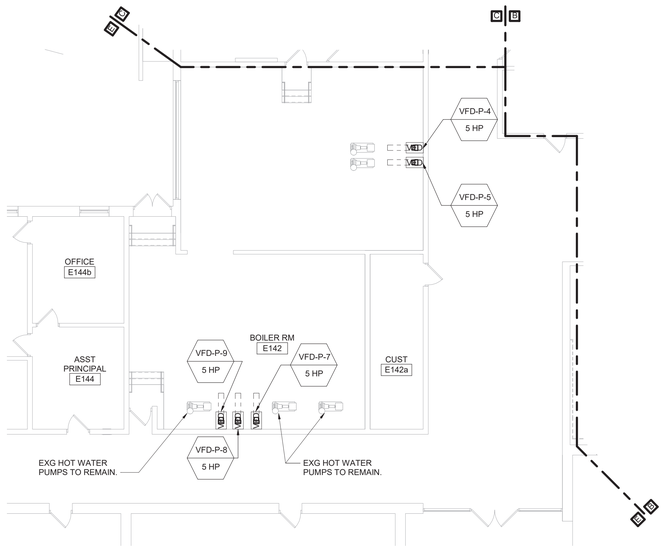
Reconstruction to:
Rombout Middle School

First Floor Demolition Plans - Area D and Partial Area F
Roof Demolition Plan - Partial Area F

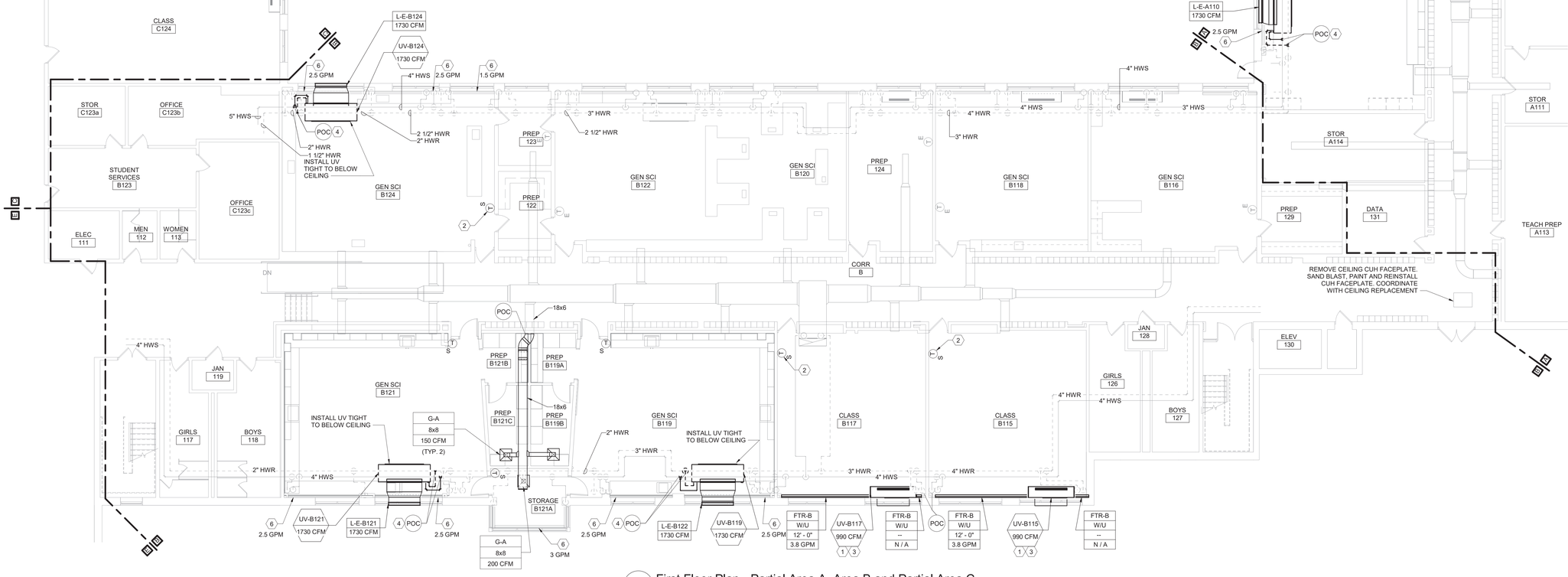
Drawn By:	Date:	Drawing Number:
JPF1/pgm	10/28/2022	EM101

Project No.:
279180-22004





2 First Floor Plan - Partial Area E
1/8" = 1'-0"



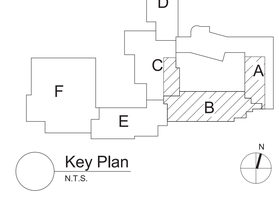
1 First Floor Plan - Partial Area A, Area B and Partial Area C
1/8" = 1'-0"

General Notes

A. REFER TO EM051 FOR GENERAL NOTES.

KEYED NOTES:

1. EXTEND HWS/R PIPING AS REQUIRED TO MAKE CONNECTION AND PIPE PER DETAIL.
2. CONNECT SPACE TEMPERATURE SENSOR TO EXISTING WIRING.
3. PROVIDE LOUVER AND OA INTAKE SLEEVE AND SECURE PER DETAIL. REFER TO ARCHITECTURAL DRAWINGS FOR WALL OPENING AND LOUVER INSTALLATION.
4. EXTEND 1" HWS/R FROM POC TO UV AND PIPE PER DETAIL.
5. REINSTALL KILN EXHAUST HOOD, FAN, SUPPORTS AND ACCESSORIES. PROVIDE 4" HARD DUCT VENT UP THROUGH ROOF WITH GOOSENECK.
6. REPLACE CONTROL VALVE (SIZED FOR FLOWRATE PROVIDED) FOR RADIANT HEATING EQUIPMENT AND PROVIDE CONTROLS.



Key Plan
N.T.S.

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

Rev. No.:	Date:	Description:

BEACON CITY SCHOOL DISTRICT — WHERE EXCELLENCE IS THE STANDARD

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

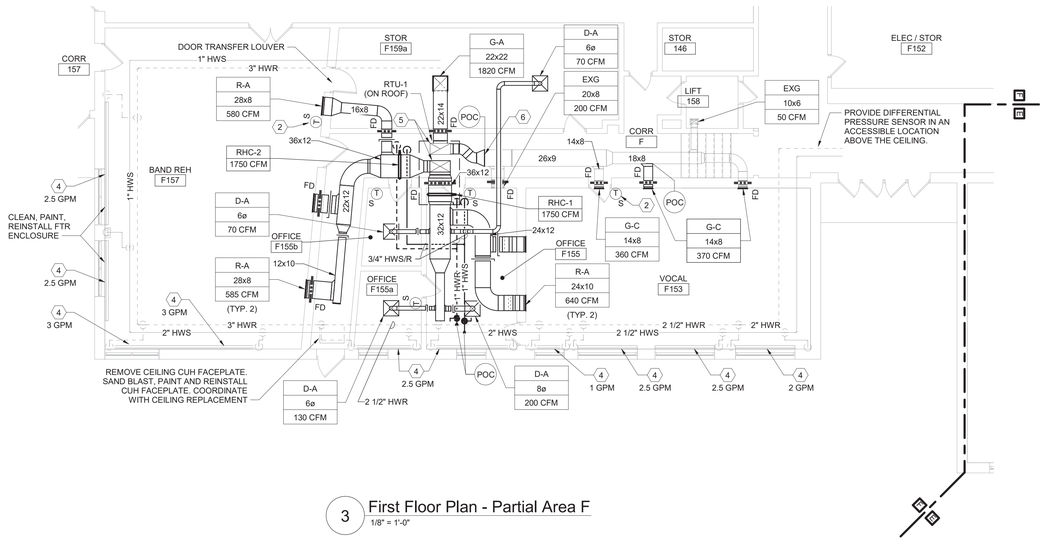
TETRA TECH ARCHITECTS & ENGINEERS

Beacon City School District
Beacon, New York

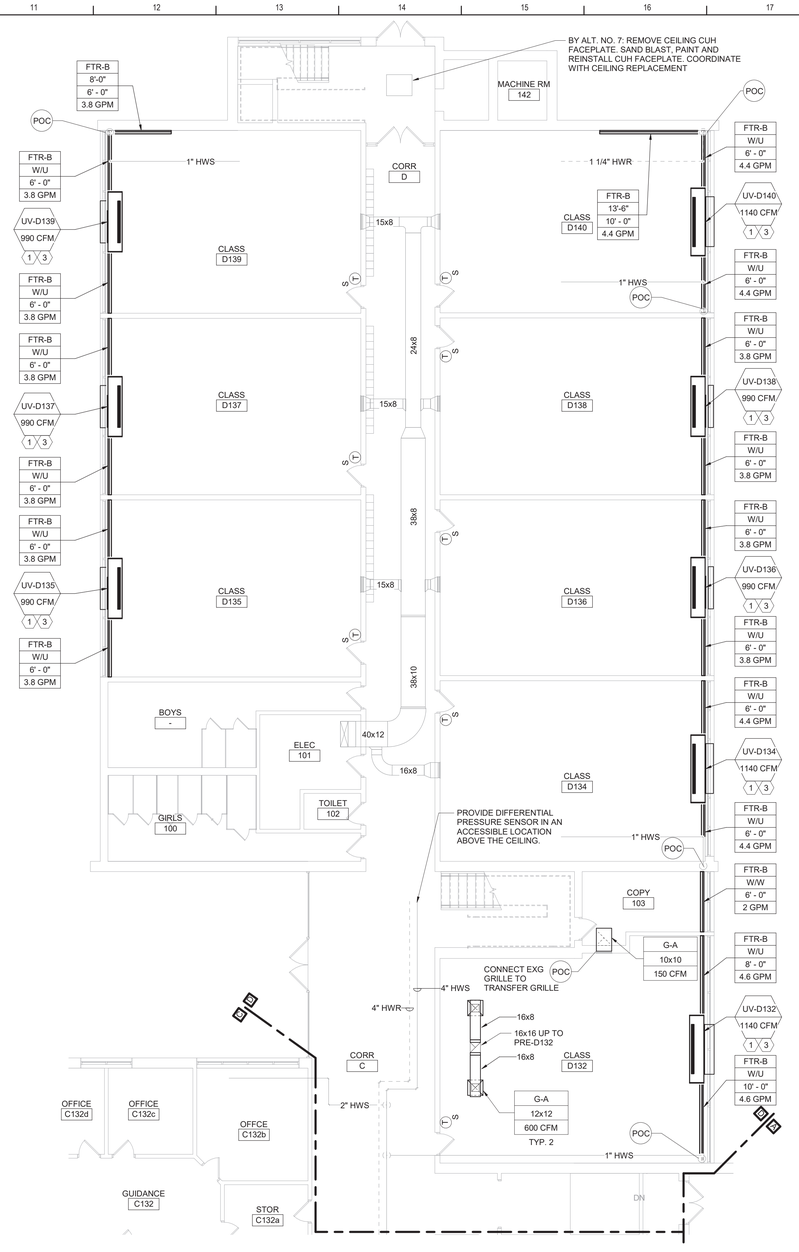
Reconstruction to:
Rombout Middle School

First Floor Plan - Partial Area A, Area B and Partial Areas C and E

Drawn By:	Date:	Drawing Number:
JPF1/pgm	10/28/2022	EM130
Project No.: 279180-22004		

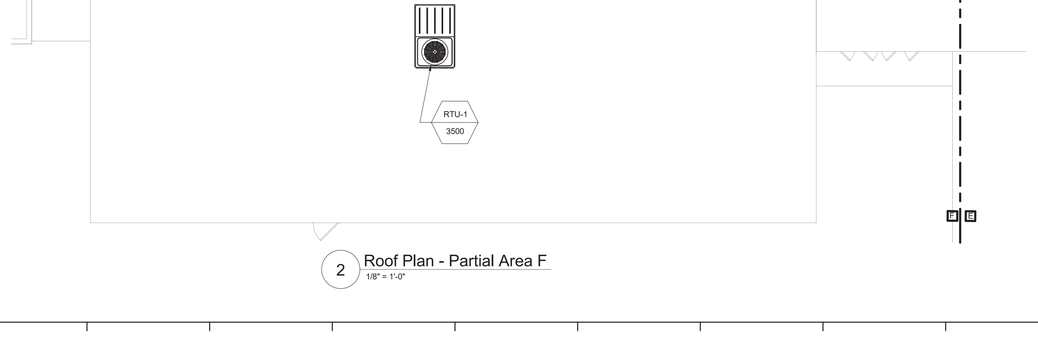


3 First Floor Plan - Partial Area F
1/8" = 1'-0"



1 First Floor Plan - Area D
1/8" = 1'-0"

4 Roof Plan - Partial Area C and Area D
1/16" = 1'-0"



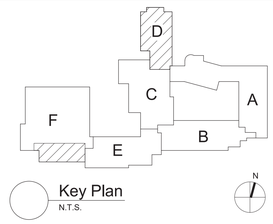
2 Roof Plan - Partial Area F
1/8" = 1'-0"

General Notes

A. REFER TO EM051 FOR GENERAL NOTES.

KEYED NOTES:

1. EXTEND HWS/R PIPING AS REQUIRED TO MAKE CONNECTION AND PIPE PER DETAIL.
2. CONNECT SPACE TEMPERATURE SENSOR TO EXISTING WIRING.
3. PROVIDE LOUVER AND OA INTAKE SLEEVE AND SECURE PER DETAIL. REFER TO ARCHITECTURAL DRAWINGS FOR WALL OPENING AND LOUVER INSTALLATION.
4. REPLACE CONTROL VALVE (SIZED FOR FLOWRATE PROVIDED) FOR RADIANT HEATING EQUIPMENT AND PROVIDE CONTROLS.
5. 18x32 SA AND 18x32 RA UP TO RTU-1.
6. CONNECT 18x16 RA TO EXG 26x10.



Key Plan
N.T.S.

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

Rev. No.:	Date:	Description:

BEACON CITY SCHOOL DISTRICT — WHERE EXCELLENCE IS THE STANDARD

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

BID SET

TETRA TECH
ARCHITECTS & ENGINEERS

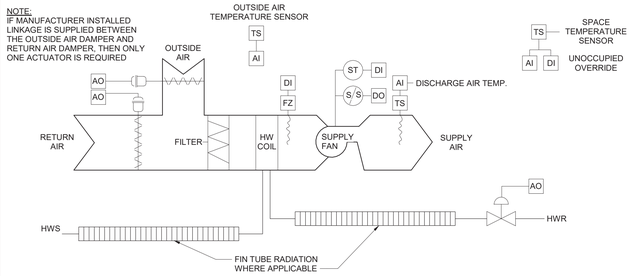
Beacon City School District
Beacon, New York

Reconstruction to:
Rombout Middle School

First Floor Plans - Area D and Partial Area F and Roof Plan - Area D and Partial Areas C and F

Drawn By:	Date:	Drawing Number:
JPF1/pgm	10/28/2022	EM131
Project No.: 279180-22004		

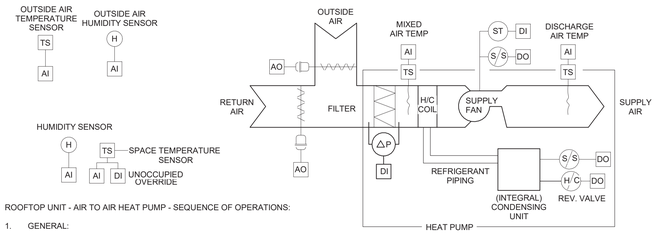
NOTE:
IF MANUFACTURER INSTALLED LINKAGE IS SUPPLIED BETWEEN THE OUTSIDE AIR DAMPER AND RETURN AIR DAMPER, THEN ONLY ONE ACTUATOR IS REQUIRED



UNIT VENTILATOR - HOT WATER - VALVE CONTROL - SEQUENCE OF OPERATIONS:

1. OCCUPIED MODE:
   a. SUPPLY FAN AND ASSOCIATED EXHAUST FAN SHALL RUN CONTINUOUSLY.
   b. THE OUTSIDE AIR DAMPER SHALL OPEN TO THE POSITION REQUIRED TO MAINTAIN THE MINIMUM OUTSIDE AIR QUANTITY INDICATED. OUTSIDE AIR DAMPER SHALL NEVER BE POSITIONED BELOW THIS MINIMUM POSITION EXCEPT IN CASE OF ALARM.
   c. WHEN THE SPACE TEMPERATURE IS AT OR BELOW THE HEATING SETPOINT, THE 2-WAY CONTROL VALVE SHALL MODULATE TO MAINTAIN SPACE HEATING SETPOINT SUBJECT TO DISCHARGE HIGH LIMIT OF 110 DEG. F (ADJUSTABLE) AND DISCHARGE LOW LIMIT OF 70 DEG. F (ADJUSTABLE).
   d. WHEN THE SPACE TEMPERATURE RISES 3 DEG. F (ADJUSTABLE) ABOVE THE SPACE HEATING SETPOINT, AND THE OUTSIDE AIR TEMPERATURE IS LOWER THAN THE SPACE TEMPERATURE, THE OUTSIDE AIR DAMPER SHALL MODULATE OPEN AND THE ASSOCIATED RELIEF HOOD DAMPER SHALL OPEN TO MAINTAIN THE OCCUPIED SETPOINT. THIS SHALL BE DONE SUBJECT TO DISCHARGE LOW LIMIT OF 55 DEG. F (ADJUSTABLE), AND WITH THE HEATING VALVE FULLY CLOSED.
2. UNOCCUPIED MODE:
   a. SUPPLY FAN AND ASSOCIATED EXHAUST FAN SHALL BE OFF.
   b. THE OUTSIDE AIR DAMPER AND ASSOCIATED RELIEF HOOD DAMPER SHALL BE FULLY CLOSED.
   c. WHERE SPACE HAS FINNED TUBE RADIATION, RADIATION SHALL PROVIDE FIRST STAGE UNOCCUPIED HEATING.
   d. ON DROP IN SPACE TEMPERATURE BELOW THE UNOCCUPIED SETPOINT, CYCLE THE FAN ON AND COIL CONTROL VALVE FULL OPEN AS REQUIRED TO MAINTAIN REDUCED SPACE TEMPERATURE. USE 5 DEG. F (ADJUSTABLE) DEADBAND AS REQUIRED TO MINIMIZE SHORT CYCLING.
   e. A TIMED LOCAL OVERRIDE CONTROL SHALL ALLOW AN OCCUPANT TO OVERRIDE THE SCHEDULE AND PLACE THE UNIT INTO OCCUPIED MODE FOR 1 HOUR (ADJUSTABLE). AT EXPIRATION OF THIS TIME, CONTROL OF THE UNIT SHALL AUTOMATICALLY RETURN TO THE SCHEDULE.
3. WARM-UP MODE:
   a. THE UNIT SHALL START PER AN OPTIMUM START PROGRAM.
   b. THE OUTSIDE AIR DAMPER AND ASSOCIATED RELIEF HOOD DAMPER SHALL BE FULLY CLOSED AND THE ASSOCIATED EXHAUST FAN SHALL BE OFF.
   c. THE SUPPLY FAN SHALL RUN AND THE CONTROL VALVE SHALL MODULATE TO MAINTAIN OCCUPIED SETPOINT.
4. PURGE VENTILATION MODE:
   a. PROVIDE GLOBAL INITIATION OF PURGE VENTILATION MODE AT THE OPERATOR'S WORKSTATION SUCH THAT ONE INITIATION STARTS OR STOPS PURGE VENTILATION MODE FOR ALL EQUIPMENT SO PROGRAMMED. PROVIDE FOR GLOBAL ADJUSTMENT OF THE BELOW DESCRIBED SCHEDULING AND PERCENTAGE VENTILATION CHANGES, AND ALSO FOR LOCAL ADJUSTMENT AWAY FROM GLOBAL SETPOINTS. IF GLOBAL SETPOINTS ARE SUBSEQUENTLY RE-ADJUSTED, PROVIDE WARNING WITH A LIST OF UNITS WITH LOCAL OVERRIDES, BUT DO NOT RE-ADJUST LOCAL OVER-RIDE SETPOINTS GLOBALLY.
   b. PROVIDE A PURGE VENTILATION MODE WITH INCREASED VENTILATION AS POSSIBLE WITHIN THE LIMITS OF THE EQUIPMENT. OPERATE WITH ALL THREE MODES DESCRIBED ABOVE WITH THE FOLLOWING MODIFICATIONS TO THE OCCUPIED PERIOD.
   c. START OCCUPIED VENTILATION MODE 1 HOUR (ADJ) EARLIER AND END IT 4 HOURS (ADJ) LATER.
   d. INCREASE VENTILATION AS POSSIBLE BY 100% (ADJ) WHERE 0% INCREASE IS THE MINIMUM VENTILATION DESCRIBED ABOVE AND 100% IS 100% OUTSIDE AIR WITH NO RETURN AIR.
   e. MAINTAIN OCCUPIED SPACE TEMPERATURE AND INCREASED VENTILATION AS POSSIBLE WITHIN HEATING CAPACITY CONSTRAINTS OF LOCAL AND PLANT HEATING CAPACITY. IF SPACE TEMPERATURE DROPS MORE THAN 2 DEG. F (ADJ) BELOW SPACE HEATING SETPOINT WITH THE HEATING VALVE 100% OPEN, MODULATE VENTILATION RATE BACK TO MINIMUM SPECIFIED VENTILATION RATE DESCRIBED ABOVE WITH HEATING VALVE AT 100% OPEN.
5. SAFETIES
   a. A SEPARATE LOW LIMIT FREEZE STAT WITH AUTOMATIC RESET SHALL BE INSTALLED WITH SENSING ELEMENT SERPENTINED ACROSS THE FACE OF THE COIL; WHENEVER COIL FREEZE-UP CONDITIONS ARISE (36 DEG. F ADJUSTABLE) THE SUPPLY FAN SHALL STOP, THE OUTSIDE AIR DAMPER SHALL CLOSE 100%, AND CONTROL VALVE SHALL OPEN 100%. AN ALARM SHALL ALSO BE ACTIVATED.
   b. UPON FAILURE OF THE FAN, AS SENSED BY THE CURRENT SENSING STATUS SWITCH, AN ALARM SHALL BE ACTIVATED.

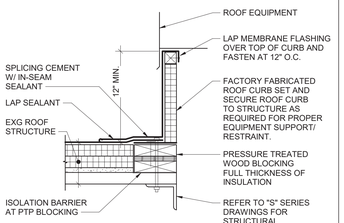
14 UV - Hot Water - Valve Control w/ FTR
NTS



ROOFTOP UNIT - AIR TO AIR HEAT PUMP - SEQUENCE OF OPERATIONS:

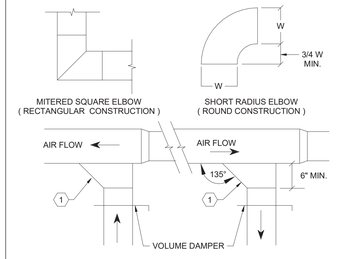
1. GENERAL:
   a. THE ROOFTOP UNIT SERVES MULTIPLE SPACES WITH MULTIPLE SPACE TEMPERATURE SENSORS. PROVIDE AN AVERAGE SPACE TEMPERATURE SETPOINT, WEIGHTED WITH THE CLASSROOMS CARRYING A HIGHER IMPORTANCE. ALLOW INDIVIDUAL (PER SPACE) ADJUSTMENT OF IMPORTANCE FACTOR.
      • CLASSROOMS - IMPORTANCE FACTOR OF 3.
      • OFFICES - IMPORTANCE FACTOR OF 2.
      • STORAGE - IMPORTANCE FACTOR OF 1.
2. OCCUPIED MODE:
   a. SUPPLY FAN AND ASSOCIATED EXHAUST FAN SHALL RUN CONTINUOUSLY WITH THE OUTDOOR AIR DAMPER AS REQUIRED TO MAINTAIN THE MINIMUM OUTDOOR AIR QUANTITY INDICATED. THE OUTSIDE AIR DAMPER SHALL NEVER BE POSITIONED BELOW THIS MINIMUM POSITION EXCEPT IN CASE OF ALARM.
   b. WHEN THE OUTDOOR AIR TEMPERATURE IS BELOW 55 DEG. F (ADJUSTABLE) AND THE WEIGHTED AVERAGE SPACE TEMPERATURE IS BELOW THE HEATING SETPOINT, POSITION THE REVERSING VALVE TO PROVIDE HEAT AND CYCLE THE COMPRESSOR TO MAINTAIN A VARIABLE SUPPLY AIR HEATING SETPOINT. VARY SUPPLY AIR HEATING SETPOINT LINEARLY BETWEEN 55 DEG. F (ADJUSTABLE) AT 55 DEG. F (ADJUSTABLE) OUTDOOR TEMPERATURE AND 70 DEG. F (ADJUSTABLE) AT 25 DEG. F (ADJUSTABLE).
   c. WHEN THE WEIGHTED AVERAGE SPACE TEMPERATURE RISES 3 DEG. F (ADJUSTABLE) ABOVE THE SPACE HEATING SETPOINT, AND THE OUTSIDE AIR ENTHALPY IS LOWER THAN THE SPACE ENTHALPY, THE OUTSIDE AIR DAMPER SHALL MODULATE OPEN AND THE RELIEF DAMPER SHALL OPEN TO MAINTAIN THE OCCUPIED SETPOINT. THIS SHALL BE DONE SUBJECT TO LOW LIMIT OF 55 DEG. F (ADJUSTABLE).
   d. WHEN THE WEIGHTED AVERAGE SPACE TEMPERATURE RISES ABOVE SPACE COOLING SETPOINT (ADJUSTABLE) THE REVERSING VALVE SHALL BE POSITIONED TO PROVIDE COOLING, AND THE COMPRESSOR SHALL CYCLE TO MAINTAIN SPACE COOLING SETPOINT. USE A 5 DEG. F (ADJUSTABLE) DEADBAND BETWEEN HEATING AND COOLING SETPOINTS.
   e. WHEN THE SPACE TEMPERATURE IS SATISFIED THE COMPRESSOR SHALL CYCLE OFF.
3. UNOCCUPIED MODE:
   a. SUPPLY FAN AND ASSOCIATED EXHAUST FAN SHALL BE OFF, WITH THE OUTDOOR AIR DAMPER FULLY CLOSED AND THE RETURN AIR DAMPER FULLY OPEN.
   b. WHEN THE SPACE HAS FINNED TUBE RADIATION OR CONVECTORS, THE RADIATION SHALL PROVIDE FIRST STAGE UNOCCUPIED HEATING.
   c. ON DROP IN WEIGHTED AVERAGE SPACE TEMPERATURE BELOW THE UNOCCUPIED SETPOINT, CYCLE THE FAN ON, THE REVERSING VALVE SHALL BE POSITIONED TO PROVIDE HEAT, AND THE COMPRESSOR SHALL CYCLE TO MAINTAIN THE UNOCCUPIED SPACE TEMPERATURE SET POINT (ADJUSTABLE).
   d. A TIMED LOCAL OVERRIDE CONTROL SHALL ALLOW AN OCCUPANT TO OVERRIDE THE SCHEDULE AND PLACE THE UNIT INTO OCCUPIED MODE FOR 1 HOUR (ADJUSTABLE). AT EXPIRATION OF THIS TIME, CONTROL OF THE UNIT SHALL AUTOMATICALLY RETURN TO THE SCHEDULE.
   e. COOLING SHALL BE DISABLED.
4. WARM-UP MODE:
   a. THE UNIT SHALL START PER OPTIMUM START PROGRAM.
   b. THE SUPPLY FAN SHALL TURN ON, THE REVERSING VALVE SHALL BE POSITIONED TO PROVIDE HEAT, AND THE COMPRESSOR SHALL CYCLE TO MAINTAIN SPACE HEATING SET POINT.
5. PURGE VENTILATION MODE:
   a. PROVIDE GLOBAL INITIATION OF PURGE VENTILATION MODE AT THE OPERATOR'S WORKSTATION SUCH THAT ONE INITIATION STARTS OR STOPS PURGE VENTILATION MODE FOR ALL EQUIPMENT SO PROGRAMMED. PROVIDE FOR GLOBAL ADJUSTMENT OF THE BELOW DESCRIBED SCHEDULING AND PERCENTAGE VENTILATION CHANGES, AND ALSO FOR LOCAL ADJUSTMENT AWAY FROM GLOBAL SETPOINTS. IF GLOBAL SETPOINTS ARE SUBSEQUENTLY RE-ADJUSTED, PROVIDE WARNING WITH A LIST OF UNITS WITH LOCAL OVERRIDES, BUT DO NOT RE-ADJUST LOCAL OVER-RIDE SETPOINTS GLOBALLY.
   b. PROVIDE A PURGE VENTILATION MODE WITH INCREASED VENTILATION AS POSSIBLE WITHIN THE LIMITS OF THE EQUIPMENT. OPERATE WITH ALL THREE MODES DESCRIBED ABOVE WITH THE FOLLOWING MODIFICATIONS TO THE OCCUPIED PERIOD.
   c. START OCCUPIED VENTILATION MODE 1 HOUR (ADJ) EARLIER AND END IT 4 HOURS (ADJ) LATER.
   d. INCREASE VENTILATION AS POSSIBLE BY 100% (ADJ) WHERE 0% INCREASE IS THE MINIMUM VENTILATION DESCRIBED ABOVE AND 100% IS 100% OUTSIDE AIR WITH NO RETURN AIR.
   e. MAINTAIN OCCUPIED SPACE TEMPERATURE AND INCREASED VENTILATION AS POSSIBLE WITHIN HEATING CAPACITY CONSTRAINTS OF LOCAL AND PLANT HEATING CAPACITY. IF SPACE TEMPERATURE DROPS MORE THAN 2 DEG. F (ADJ) BELOW SPACE HEATING SETPOINT WITH THE HEATING VALVE 100% OPEN, MODULATE VENTILATION RATE BACK TO MINIMUM SPECIFIED VENTILATION RATE DESCRIBED ABOVE WITH HEATING VALVE AT 100% OPEN.
6. SAFETIES:
   a. DIFFERENTIAL PRESSURE ACROSS THE AIR FILTERS SHALL GENERATE AN ALARM WHENEVER THE DIFFERENTIAL PRESSURE EXCEEDS IT'S ADJUSTABLE SETPOINT.
   b. IF THE DISCHARGE AIR TEMPERATURE DROPS BELOW 35 DEG. F (ADJUSTABLE), THE SUPPLY FAN SHALL TURN OFF AND SHALL BE LOCKED OUT, AND AN ALARM SHALL BE ACTIVATED.
   c. IF THE SUPPLY FAN FAILS, AN ALARM SHALL BE ACTIVATED.
   d. IF THE COMPRESSOR FAILS, AN ALARM SHALL BE ACTIVATED.

15 Rooftop Unit - Heat Pump
NTS



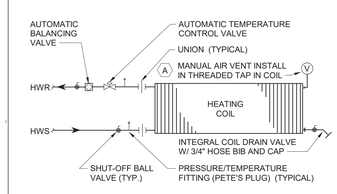
NOTE:
AT PENETRATIONS THROUGH EXISTING ROOF, FLASH INTO EXISTING ROOF SYSTEM AND PATCH TO MATCH AS REQUIRED BY ROOF SYSTEM MANUFACTURER.

10 Equipment Curb
NTS



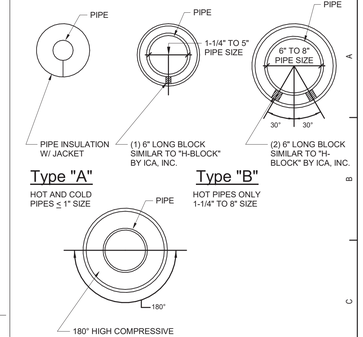
1 USE ONLY ONE TYPE OF BRANCH CONNECTION THROUGHOUT PROJECT (UNLESS OTHERWISE CALLED FOR)

8 Duct Detail
NTS

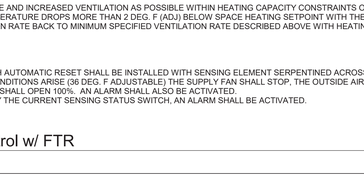


A WHERE COIL IS SUPPLIED FROM OVERHEAD PIPING, PROVIDE MANUAL AIR VENT AT HIGH POINT IN HOT WATER SUPPLY PIPING.

4 RHC/UV Hot Water Piping Schematic
NTS



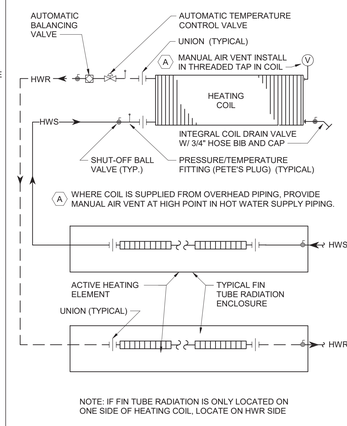
1 Insulation Shield and Blocking
NTS



DUCT MOUNTED HEATING COIL - HOT WATER - SEQUENCE OF OPERATIONS:

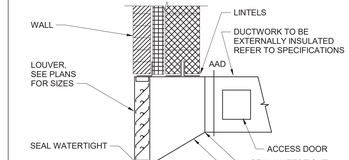
1. GENERAL:
   a. RHC-1 SERVES MULTIPLE SPACES WITH MULTIPLE SPACE TEMPERATURE SENSORS. PROVIDE AN AVERAGE SPACE TEMPERATURE SETPOINT, WEIGHTED WITH THE CLASSROOMS CARRYING A HIGHER IMPORTANCE. ALLOW INDIVIDUAL (PER SPACE) ADJUSTMENT OF IMPORTANCE FACTOR.
      • CLASSROOMS - IMPORTANCE FACTOR OF 3.
      • OFFICES - IMPORTANCE FACTOR OF 2.
      • STORAGE - IMPORTANCE FACTOR OF 1.
2. HEATING MODE:
   a. WHEN THE SPACE HAS FINNED TUBE RADIATION OR CONVECTORS, THE RADIATION SHALL PROVIDE FIRST STAGE OF HEATING.
   b. WHEN THE WEIGHTED AVERAGE SPACE TEMPERATURE IS AT OR BELOW THE HEATING SETPOINT AND THE RELATED FAN SYSTEM HAS BEEN ENABLED, THE 2-WAY CONTROL VALVE SHALL MODULATE TO MAINTAIN SPACE HEATING SETPOINT SUBJECT TO DISCHARGE HIGH LIMIT OF 110 DEG. F (ADJ.) AND DISCHARGE LOW LIMIT OF 70 DEG. F (ADJ.).
3. SAFETIES:
   a. A SEPARATE LOW LIMIT FREEZE STAT WITH AUTOMATIC RESET SHALL BE INSTALLED WITH SENSING ELEMENT SERPENTINED ACROSS THE FACE OF THE COIL, WHENEVER COIL FREEZE-UP CONDITIONS ARISE (36 DEG. F ADJ.) THE SUPPLY FAN SHALL STOP, THE OUTSIDE AIR DAMPER SHALL CLOSE 100% AND THE CONTROL VALVE SHALL OPEN 100%. AN ALARM SHALL ALSO BE ACTIVATED.

12 Duct Mounted Heating Coil - Hot Water - Valve Control
NTS



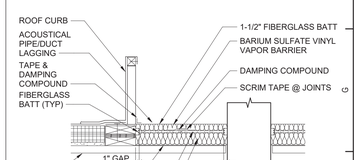
NOTE: IF FIN TUBE RADIATION IS ONLY LOCATED ON ONE SIDE OF HEATING COIL, LOCATE ON HWR SIDE

9 FCU/UV Hot Water With FTR Piping Schematic
NTS



NOTES: 1. BRICK VENT INSTALLATION SIMILAR

6 Storm Louver Detail
NTS

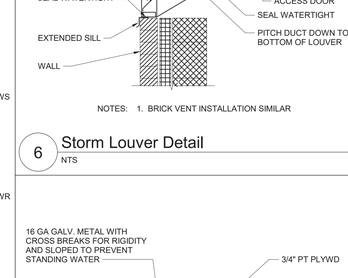


2 Acoustically Lined Roof Curb Detail
NTS

FIN TUBE RADIATION - HOT WATER - WITH 2-WAY CONTROL VALVE - SEQUENCE OF OPERATIONS:

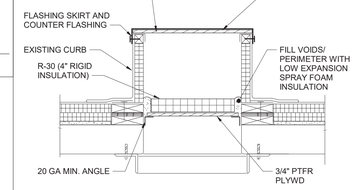
1. OCCUPIED MODE:
   a. WHEN THE SPACE TEMPERATURE IS AT OR BELOW THE OCCUPIED HEATING SETPOINT, THE CONTROL VALVE SHALL OPEN 100% TO MAINTAIN OCCUPIED SPACE SETPOINT.
2. UNOCCUPIED MODE:
   a. WHEN THE SPACE TEMPERATURE IS AT OR BELOW THE UNOCCUPIED HEATING SETPOINT, THE CONTROL VALVE SHALL OPEN 100% TO MAINTAIN UNOCCUPIED SPACE SETPOINT.
3. WARM-UP MODE:
   a. WHEN THE SPACE TEMPERATURE IS AT OR BELOW THE OCCUPIED HEATING SETPOINT, THE CONTROL VALVE SHALL OPEN 100% TO MAINTAIN OCCUPIED SPACE SETPOINT.
4. SAFETIES:
   a. IF THE SPACE TEMPERATURE IS LESS THAN THE HEATING SETPOINT BY 10 DEG. F (ADJUSTABLE), THE CONTROL VALVE SHALL OPEN 100%. AN ALARM SHALL BE ACTIVATED.

13 Fin Tube Radiation - Hot Water - 2-Way Control Valve
NTS

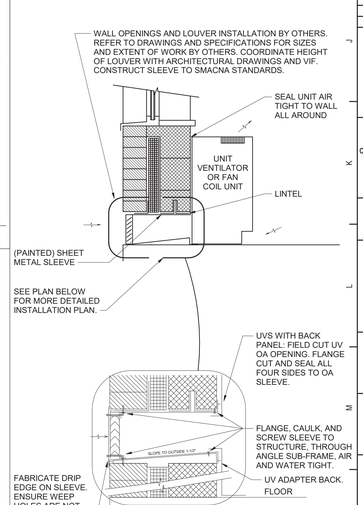


SEE PLANS FOR ENCLOSURE, ELEMENT, AND CAPACITY REQUIREMENTS.

5 Fin Tube Radiation Piping Schematic
NTS



7 Roof Curb Cap Detail
NTS



NOTE: COORDINATE INSTALLATION OF SLEEVE, LOUVER, AND UV WITH WALL.

3 Floor Mounted Unit Ventilator
NTS

TEMPERATURE CONTROLS SYMBOLS LIST

AI	ANALOG IN
AO	ANALOG OUT
COM	COMMUNICATIONS PORT
CS	AIRBORNE CONTAMINANT SENSOR
DI	DIGITAL IN
	DAMPER MOTOR
DO	DIGITAL OUT
EMCS	ENERGY MANAGEMENT CONTROL SYSTEM
F	FLOW (WATER/AIR)
FM	FLOW METER
FS	AIR FLOW SENSOR
FZ	FREEZE STAT
H	HUMIDITY SENSOR
HL	HIGH LIMIT
KWH	KILOWATT HOUR METER
LL	LOW LIMIT
M/S	MANUAL SWITCH STOP / START
P	PRESSURE SENSOR
ΔP	DIFFERENTIAL PRESSURE
PS	POSITION SENSOR
S/S	STOP / START
SD	SMOKE DETECTOR
ST	STATUS
START	STARTER
T	ADJUSTABLE THERMOSTAT
TS	TEMPERATURE SENSOR
VFD	VARIABLE FREQUENCY DRIVE
WS	WATER SENSOR
%	PERCENT
ES	END SWITCH
BS	BOILER SWITCH

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

Rev. No.:	Date:	Description:

BEACON CITY SCHOOL DISTRICT WHERE EXCELLENCE IS THE STANDARD

complex world | CLEAR SOLUTIONS

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

BID SET

TETRA TECH ARCHITECTS & ENGINEERS

Beacon City School District
Beacon, New York

Reconstruction to:
Rombout Middle School

Details and Controls

Drawn By:	Date:	Drawing Number:
JPF1/pgm	10/28/2022	EM500

Project No.: 279180-22004

PACKAGED ROOFTOP UNIT (RTU) SCHEDULE

DWG LABEL	DESIGN MAKE: TRANE MODEL	SERVES	SIZE	SUPPLY AIR (CFM)	MIN. OA (CFM)	HEATING DATA: EAT (°F)	AMBIENT DB (°F)	AMBIENT DB (°F)	HEATING TYPE	HEATING CAPACITY (MBH)	COOLING DATA: EDB (°F)	EWB (°F)	LDB (°F)	LWB (°F)	AMBIENT DB (°F)	TC (MBH)	SC (MBH)	SUPPLY FAN: ESP (IN. WG)	RPM	HP	COMPRESSOR DATA: TYPE	COMP. 1 (RLA)	COMP. 2 (RLA)	ELECTRICAL DATA: MCA	MOP	VOLT.	PH	REFRIGERANT TYPE	EER	OPER WEIGHT (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	SCROLL	17.6	16.0	49	60	208 V	3	R-410a	16.0	1617	1-4

NOTES:
1. PROVIDE LOW LEAK ECONOMIZER WITH MOTORIZED RELIEF. 2" MERV8.
2. PROVIDE FIELD OR FACTORY NEMA 3R DISCONNECT SWITCH.
3. PROVIDE TRANSFORMER AND POWERED GFCI SERVICE OUTLET (WIRED IN FRONT OF DISCONNECT SWITCH).
4. PROVIDE 24" ROOF CURB.

UNIT VENTILATOR (UV) SCHEDULE

EQUIP NO.	LOCATION	MODEL NO.	SA CFM	MIN. OA	HEATING DATA: NO. ROW	EAT (°F)	LAT (°F)	CAP. (MBH)	HW COIL: GPM	WPD (FT HD)	ESP (IN. WG.)	RPM	ELECTRICAL: MOTOR QTY	MOTOR SIZE (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

NOTES:
1. DESIGN BASIS: TRANE
2. FLOOR MOUNTED UNIT
3. CEILING MOUNTED UNIT
4. PROVIDE 1" MERV13 FILTER.
5. HOT WATER COIL CONDITIONS: EWT=160°F, LWT=120°F.
6. ADJUST UV FAN SPEED TO PROVIDE SCHEDULED SUPPLY AIR QUANTITY.
7. VERIFY PIPE AND ELECTRICAL LEFT/RIGHT HAND CONNECTIONS PRIOR TO ORDERING.
8. PROVIDE RETURN AIR BOTTOM INLET GRILLE.
9. UNIT 21-1/4" DEEP W/CLOSED PIPE TUNNEL.
10. NEMA 1 DISCONNECT SWITCH

FAN (PRE-) SCHEDULE

DWG LABEL	SERVES	TYPE	MODEL NO.	FAN DATA: MIN CFM	MAX CFM	SP (IN WG)	SONES	RPM	TIP SPEED (FPM)	DRIVE	ELECTRICAL: BHP	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

NOTES:
1. DESIGN BASIS: LOREN COOK
2. PROVIDE 14" CURB.
3. PROVIDE NEMA 1 DISCONNECT.
4. SONES, TIP SPEED AND BHP ARE MAXIMUM ALLOWABLE. CFM, SP AND OPENING ARE MINIMUM ALLOWABLE.

LOUVER (L) SCHEDULE

DWG LABEL	SERVES	MODEL NO.	TYPE	LENGTH (IN)	HEIGHT (IN)	DEPTH (IN)	FREE AREA (S.F.)	AIRFLOW (CFM)	VELOCITY (FPM)	MAX APD (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. DESIGN BASIS: GREENHECK
2. PROVIDE WITH KYNAR FINISH.
3. COLOR TO BE SELECTED BY ARCHITECT.
4. PROVIDE WITH EXTENDED SILL.
5. PROVIDE WITH ALUMINUM BIRDSCREEN IN REMOVABLE FRAME.

REHEAT COIL (RHC) SCHEDULE

DWG LABEL	SERVES	LOCATION	EQUIP SERVED	MODEL NO.	DUCT SIZE	FACE AREA	FACE VELOCITY	TUBE WALL THICKNESS	AIRSIDE DATA: NO. ROWS	AIRFLOW	APD (in-wg)	EAT (°F)	LAT (°F)	HEATING CAPACITY (MBH)	HYDRONIC DATA: HWS (°F)	HWR (°F)	GPM	WPD (ftH2O)	NOTES
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

NOTES:
1. DESIGN MAKE: TRANE
2. COILS SHALL HAVE SAME SIDE CONNECTIONS.

VARIABLE FREQUENCY DRIVE (VFD) SCHEDULE

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

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

BUILDING/EQUIPMENT VENTILATION CALCULATIONS

EQUIPMENT NUMBER	ZONE ID: ROOM NUMBER	ROOM NAME	OCCUPANCY CLASSIFICATION	Az - AREA (SF)	MINIMUM VENTILATION RATES: Pz - ZONE OCCU. #/1000 FT	ZONE OCCU.	Rp (CFM/ Person)	RpP	Ra (CFM/SF)	RaA	Vbz (CFM)	EZ	Voz (CFM)	DESIGN: Vpz (CFM)	Zp
RTU-1	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
	F155a	OFFICE	OFFICE SPACE	85	5	1	5	5	0.06	5	10	0.8	15	130	0.12
	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

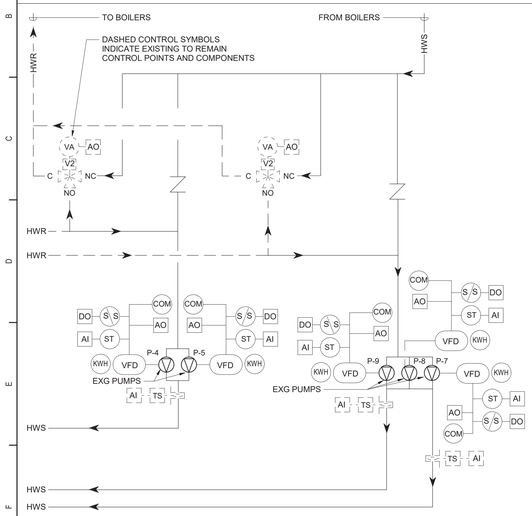
NOTES:
Rp = PEOPLE OUTDOOR AIR RATE, Ra = AREA OUTDOOR AIR RATE, Vbz = BREATHING ZONE OUTDOOR AIRFLOW , Ez = AIR DISTRIBUTION CONFIGURATION, Voz = ZONE OUTDOOR AIRFLOW
Vpz = ZONE PRIMARY AIRFLOW, Zpz = PRIMARY OUTDOOR AIR FRACTION, Vps = SYSTEM PRIMARY AIRFLOW, Vot = OUTDOOR AIR INTAKE FLOW,
Vou = UNCORRECTED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

SYSTEM VALUES RTU-1			
Vps	3500	(UNCORRECTED OA) Vou	1067
(CORRECTED OA) Vot	1580	D	0.65
OA%	45	Ev	0.68
ADDITIONAL OA%	48		

ROMBOUT BUILDING/EQUIPMENT VENTILATION CALCULATIONS

EQUIPMENT NUMBER	ZONE ID: ROOM NUMBER	ROOM NAME	OCCUPANCY CLASSIFICATION	Az - AREA (SF)	MINIMUM VENTILATION RATES: 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
UV	C130	CLASS	CLASSROOMS (AGE 9 PLUS)	743	35	27	10	270	0.12	89	359	0.9	400
UV	D132	CLASS	CLASSROOMS (AGE 9 PLUS)	954	35	34	10	340	0.12	114	454	0.9	510
UV	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
UV	D138	CLASS	CLASSROOMS (AGE 9 PLUS)	798	35	28	10	280	0.12	96	376	0.9	420
UV	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

NOTES:
Rp = PEOPLE OUTDOOR AIR RATE, Ra = AREA OUTDOOR AIR RATE, Vbz = BREATHING ZONE OUTDOOR AIRFLOW ,
Ez = AIR DISTRIBUTION CONFIGURATION, Voz = ZONE OUTDOOR AIRFLOW



HOT WATER PRIMARY PUMP CONTROL

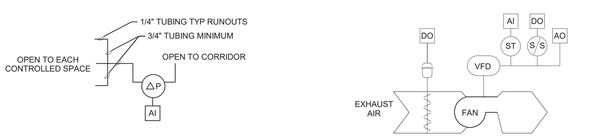
BUILDING HEATING PUMP SPEED CONTROL

1. CONTROL THE VARIABLE FREQUENCY DRIVES TO VARY THE POWER FREQUENCY TO THE BUILDING HEATING PUMPS P-7/P-8/P-9 AND P-4/P-5. THE GENERAL CONTROL SCHEME IS TOMINIMIZE PUMP POWER AND RPM WHILE KEEPING THE MOST DEMANDING ZONE SATISFIED.
2. 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 NUMBER 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 REMAINS 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!).
   f. MEASURE THE LOOP FLOWRATE VIA DIFFERENTIAL PRESSURE SENSORS PLACED 2/3 OUT IN SYSTEM.
3. 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.
4. 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:

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

1 Hot Water Pump Control
NTS



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

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

2 Variable Speed Exhaust/Relief Fan
NTS

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

Rev. No.:	Date:	Description:

BEACON CITY SCHOOL DISTRICT — WHERE EXCELLENCE IS THE STANDARD

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BID SET

TETRA TECH ARCHITECTS & ENGINEERS

Beacon City School District
Beacon, New York

Reconstruction to:
Rombout Middle School

Schedules and Controls

Drawn By:	Date:	Drawing Number:
JPF1/pgm	10/28/2022	EM600

Project No.: 279180-22004

Keyed Notes cont'd.:

6. REMOVE POWER CIRCUITRY TO CEILING HUNG UNIT HEATER COMPLETE BACK TO SOURCE.
7. REMOVE SPECIAL OUTLET FOR KILN, SALVAGE, CLEAN AND STORE OUTLET FOR REINSTALLATION. REMOVE POWER CIRCUITRY COMPLETE BACK TO SOURCE.

Keyed Notes:

1. REMOVE LUMINAIRE(S) AND CIRCUITRY COMPLETE BACK TO SOURCE.
2. REMOVE WALL OR CEILING MOUNTED EMERGENCY LIGHT. REMOVE EXISTING CIRCUITRY BACK TO NEAREST JUNCTION BOX OR DEVICE OUTSIDE OF DEMOLITION AREA. MODIFY EXISTING SYSTEM CIRCUITRY TO ALLOW FOR PROPER OPERATION OF REMAINING DEVICES ON CIRCUIT.
3. REMOVE LIGHT SWITCH(ES) CONTROLLING CORRIDOR LUMINAIRES. REMOVE EXISTING CIRCUITRY BACK TO NEAREST JUNCTION BOX OR DEVICE OUTSIDE OF DEMOLITION AREA. MODIFY EXISTING SYSTEM CIRCUITRY TO ALLOW FOR PROPER OPERATION OF REMAINING DEVICES ON CIRCUIT. PROVIDE BLANK COVER PLATE.
4. REMOVE, CLEAN AND STORE CEILING MOUNTED DEVICES IN CEILINGS THAT ARE BEING REPLACED. TAG CIRCUITRY FOR RE-USE.
5. REMOVE ELECTRICAL DEVICES SHOWN. REMOVE EXISTING CIRCUITRY BACK TO NEAREST JUNCTION BOX, DEVICE OR SWITCH OUTSIDE OF DEMOLITION AREA. MODIFY EXISTING SYSTEM CIRCUITRY TO ALLOW FOR PROPER OPERATION OF REMAINING DEVICES ON CIRCUIT.

Demolition General Notes cont'd

G. ALL DEVICES THAT ARE SCHEDULED TO BE REMOVED, CLEANED, STORED AND RE-INSTALLED SHALL BE TESTED PRIOR TO REMOVAL. IF ANY DEVICES IS NOT IN WORKING ORDER, NOTIFY ENGINEER AND OWNER'S REPRESENTATIVE PRIOR TO REMOVAL.

Demolition General Notes

A. ALL ELECTRICAL DEVICES INTERFERING WITH DEMOLITION WORK SHALL BE DISCONNECTED AND REMOVED, UNLESS OTHERWISE NOTED. EXISTING CIRCUIT WIRING SHALL BE REMOVED BACK TO SOURCE AND PANEL DIRECTORIES MODIFIED ACCORDINGLY.

B. ANY DEVICE INTERFERING WITH DEMOLITION WORK NOT SHOWN ON THESE DRAWINGS SHALL NOT BE REMOVED WITHOUT WRITTEN AUTHORIZATION FROM THE OWNER'S REPRESENTATIVE OR THE ENGINEER.

C. ALL ELECTRICAL DEMOLITION WORK SHALL BE PROPERLY COORDINATED WITH ALL OTHER TRADES.

D. EC IS SOLELY RESPONSIBLE FOR THE SAFE HANDLING AND DISPOSAL OF ALL REMOVED LUMINAIRES AND BALLASTS THAT MAY CONTAIN PCBs (POLYCHLORINATED BIPHENYLS), IN ACCORDANCE WITH ALL APPLICABLE EPA, OSHA, FEDERAL, STATE, AND LOCAL CODES AND LAWS.

E. EC IS SOLELY RESPONSIBLE FOR THE SAFE HANDLING AND DISPOSAL OF ALL REMOVED FLUORESCENT LIGHT TUBES THAT MAY CONTAIN MERCURY, IN ACCORDANCE WITH ALL APPLICABLE EPA, OSHA, FEDERAL, STATE, AND LOCAL CODES AND LAWS.

F. AT ALL CORRIDORS WHERE NEW CEILINGS ARE BEING INSTALLED, DISCONNECT AND REMOVE DEVICES AS INDICATED, TAG EXISTING WIRING FOR REUSE.

General Notes

A. COORDINATE ALL ELECTRICAL WORK AND POWER OUTAGES WITH OWNER AND OTHER TRADES PRIOR TO THE START OF CONSTRUCTION. NO POWER OUTAGES SHALL OCCUR WITHOUT OWNER'S PRIOR KNOWLEDGE AND CONSENT.

B. REFER TO DRAWING G100 FOR STANDARD SYMBOLS AND ABBREVIATIONS.

C. AT ALL CORRIDORS WHERE NEW CEILINGS ARE BEING INSTALLED, REINSTALL DEVICES ON NEW CEILINGS AS SHOWN ON NEW WORK DRAWINGS AND EXTEND/MODIFY EXISTING CIRCUITRY AS NECESSARY.

D. CIRCUIT WIRING FOR ALL LIGHTING CIRCUITS SHALL BE IN 1/2" EMT CONDUIT (MIN) OR TYPE MC CABLE CONCEALED ABOVE CEILINGS AND IN WALLS (REFER TO SPECIFICATION SECTION 26 05 33 FOR LOCATIONS WHERE MC CABLE IS ACCEPTABLE). ALL CIRCUIT CONDUCTORS SHALL BE #12AWG COPPER (MIN) 90°C THHN THERMOPLASTIC INSULATION.

E. CIRCUIT EXIT AND EMERGENCY LUMINAIRES TO UNSWITCHED HOT LEG OF LIGHTING CIRCUIT OF THE AREA BEING SERVED BY OR ADJACENT TO THE LUMINAIRE. REFER TO PLANS AND DETAILS FOR MINIATURE INVERTER INFORMATION.

F. PROPERLY IDENTIFY ALL CIRCUITS AT PANELS AND J-BOXES AND IN ACCORDANCE WITH PROJECT SPECIFICATIONS.

G. PROVIDE ALL ADAPTERS, COUPLINGS AND ASSOCIATED FITTINGS REQUIRED FOR COMPLETE OPERATIONAL SYSTEM.

H. WHEN INSTALLING NEW DEVICES IN EXISTING LOCATIONS, REUSE EXISTING CONDUIT/RACEWAY AND BACK BOXES IF IN GOOD CONDITION. EXTEND/INSTALL NEW CONDUIT/RACEWAY AS REQUIRED FOR PROPER MOUNTING OF DEVICE. CONCEAL ABOVE CEILINGS OR WITHIN WALLS WHERE POSSIBLE. REFER TO SPECIFICATION SECTION 26 05 33.

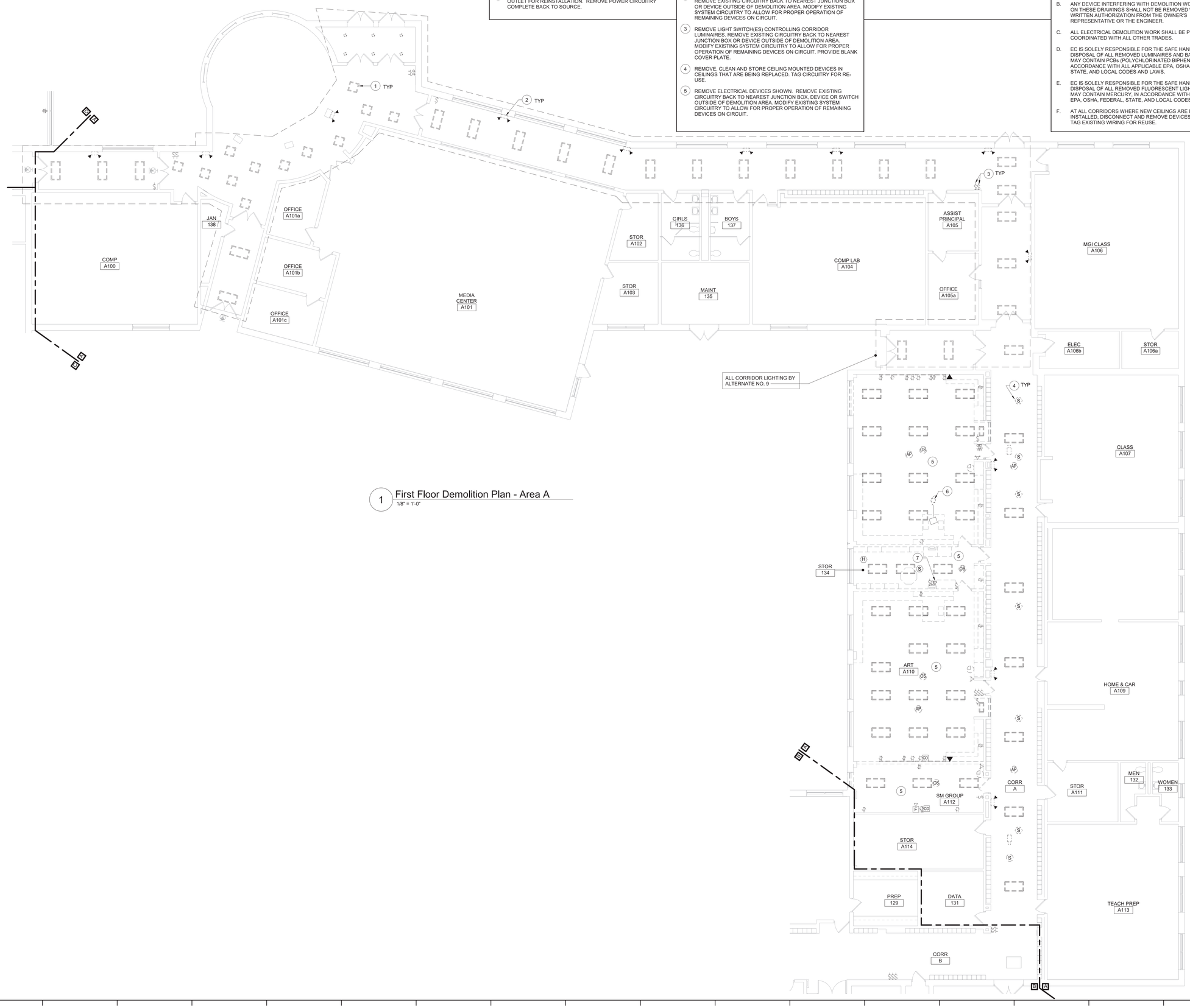
I. COORDINATE ALL ELECTRICAL WORK WITH OTHER TRADES.

J. TESTS OF ALL ELECTRICAL WORK SHALL BE PERFORMED IN THE PRESENCE OF THE ENGINEER OR ARCHITECT, AS EQUIPMENT IS INSTALLED AND AS SYSTEMS ARE COMPLETED. IN ADDITION AN ELECTRIC APPROVED CERTIFICATE SHALL BE ISSUED BY AN ELECTRICAL INSPECTION AGENCY.

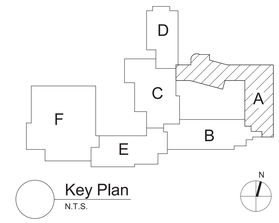
K. UNLESS NOTED ELSEWHERE ON THE CONTRACT DOCUMENTS, THE FOLLOWING LIST REPRESENTS THE TYPICAL MOUNTING HEIGHTS FOR THE DEVICES SHOWN:

1. SWITCHES AND PANIC STATIONS.....48" (TO TOP)
2. RECEPTACLES.....16"
3. COMPUTER RECEPTACLES.....48" (TO TOP)
4. WALL (W) TELEPHONE AND CALL SWITCHES.....48" (TO TOP)
5. TELEPHONE OUTLETS (UNLABELED).....16"
6. VOLUME CONTROLS.....48" (TO TOP)
7. TELEVISION OUTLETS.....16"
8. FIRE ALARM PULL STATIONS.....48" (TO TOP)
9. FIRE ALARM AUDIO/VISUAL UNITS.....88"
   * (OR 6" BELOW CEILING, WHICHEVER IS LOWER)
10. POWER PANELS.....72" (TO TOP)
11. DISCONNECT SWITCHES.....60" (TO TOP)
12. MOTOR STARTERS.....60" (TO TOP)

THE HEIGHTS INDICATED SHALL BE NOMINAL TO THE BOTTOM OF THE BOX UNLESS NOTED OTHERWISE. MAINTAIN HEIGHT CONSISTENCY BETWEEN NEW AND EXISTING DEVICES.



1 First Floor Demolition Plan - Area A
1/8" = 1'-0"



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

Rev. No.:	Date:	Description:

BEACON CITY SCHOOL DISTRICT WHERE EXCELLENCE IS THE STANDARD

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BID SET

TETRA TECH ARCHITECTS & ENGINEERS

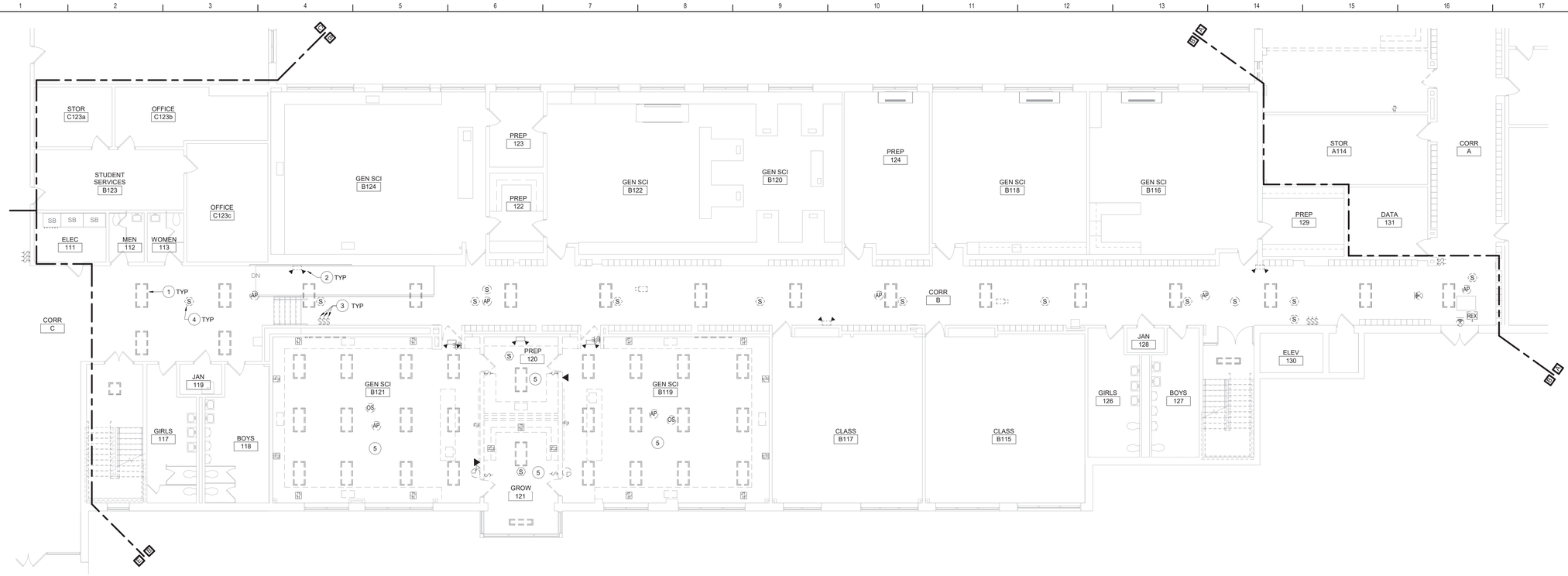
Beacon City School District
Beacon, New York

Reconstruction to:
Rombout Middle School

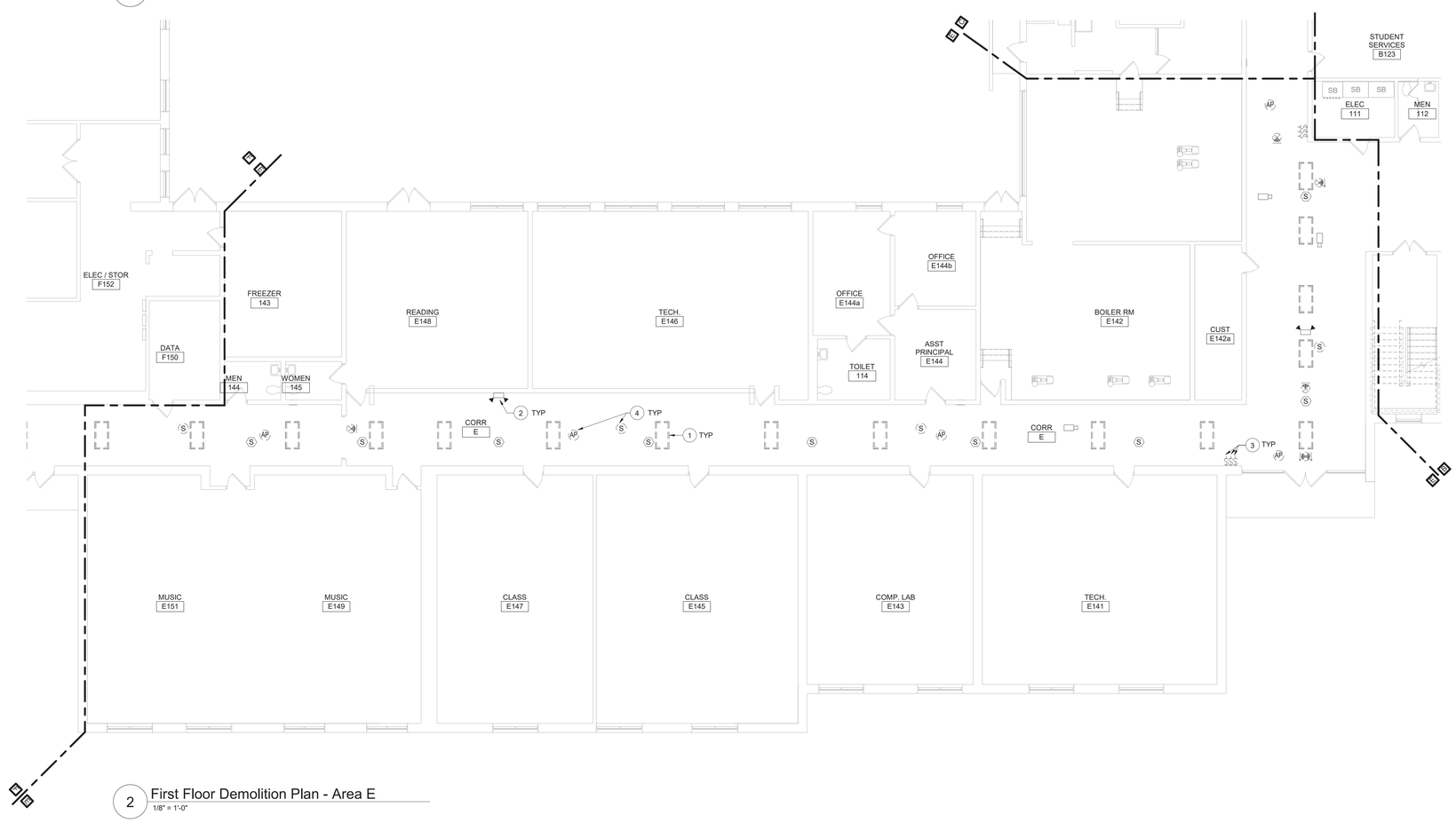
First Floor Demolition Plan - Area A

Drawn By:	Date:	Drawing Number:
SAS	10/28/2022	EE100

Project No.: 279180-22004



1 First Floor Demolition Plan - Area B
1/8" = 1'-0"



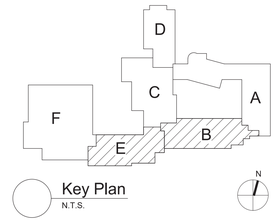
2 First Floor Demolition Plan - Area E
1/8" = 1'-0"

Keyed Notes:

1. REMOVE LUMINAIRE(S) AND CIRCUITRY COMPLETE BACK TO SOURCE.
2. REMOVE WALL OR CEILING MOUNTED EMERGENCY LIGHT. REMOVE EXISTING CIRCUITRY BACK TO NEAREST JUNCTION BOX OR DEVICE OUTSIDE OF DEMOLITION AREA. MODIFY EXISTING SYSTEM CIRCUITRY TO ALLOW FOR PROPER OPERATION OF REMAINING DEVICES ON CIRCUIT.
3. REMOVE LIGHT SWITCH(ES) CONTROLLING CORRIDOR LUMINAIRES. REMOVE EXISTING CIRCUITRY BACK TO NEAREST JUNCTION BOX OR DEVICE OUTSIDE OF DEMOLITION AREA. MODIFY EXISTING SYSTEM CIRCUITRY TO ALLOW FOR PROPER OPERATION OF REMAINING DEVICES ON CIRCUIT. PROVIDE BLANK COVER PLATE.
4. REMOVE, CLEAN AND STORE CEILING MOUNTED DEVICES IN CEILINGS THAT ARE BEING REPLACED. TAG CIRCUITRY FOR RE-USE.
5. REMOVE ELECTRICAL DEVICES SHOWN. REMOVE EXISTING CIRCUITRY BACK TO NEAREST JUNCTION BOX, DEVICE OR SWITCH OUTSIDE OF DEMOLITION AREA. MODIFY EXISTING SYSTEM CIRCUITRY TO ALLOW FOR PROPER OPERATION OF REMAINING DEVICES ON CIRCUIT.

General Notes:

A. REFER TO DRAWING EE100 FOR GENERAL NOTES



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TETRA TECH ARCHITECTS & ENGINEERS

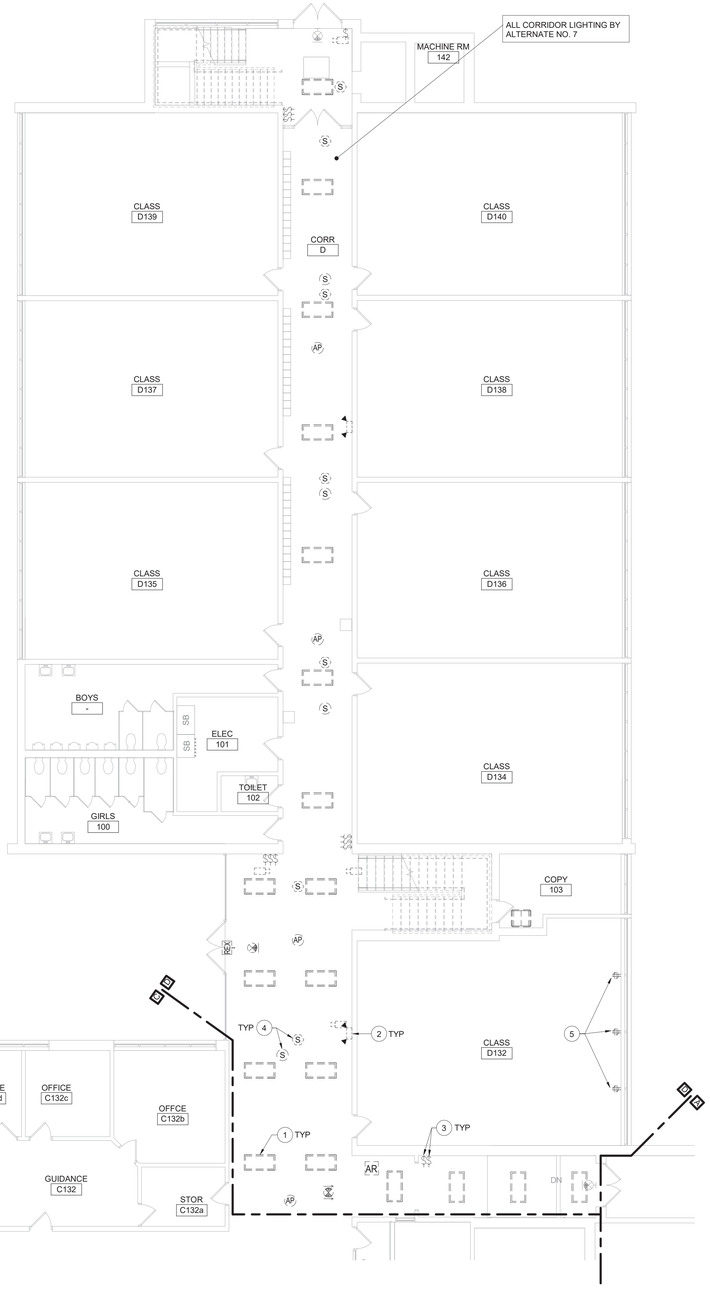
Beacon City School District
Beacon, New York

Reconstruction to:
Rombout Middle School

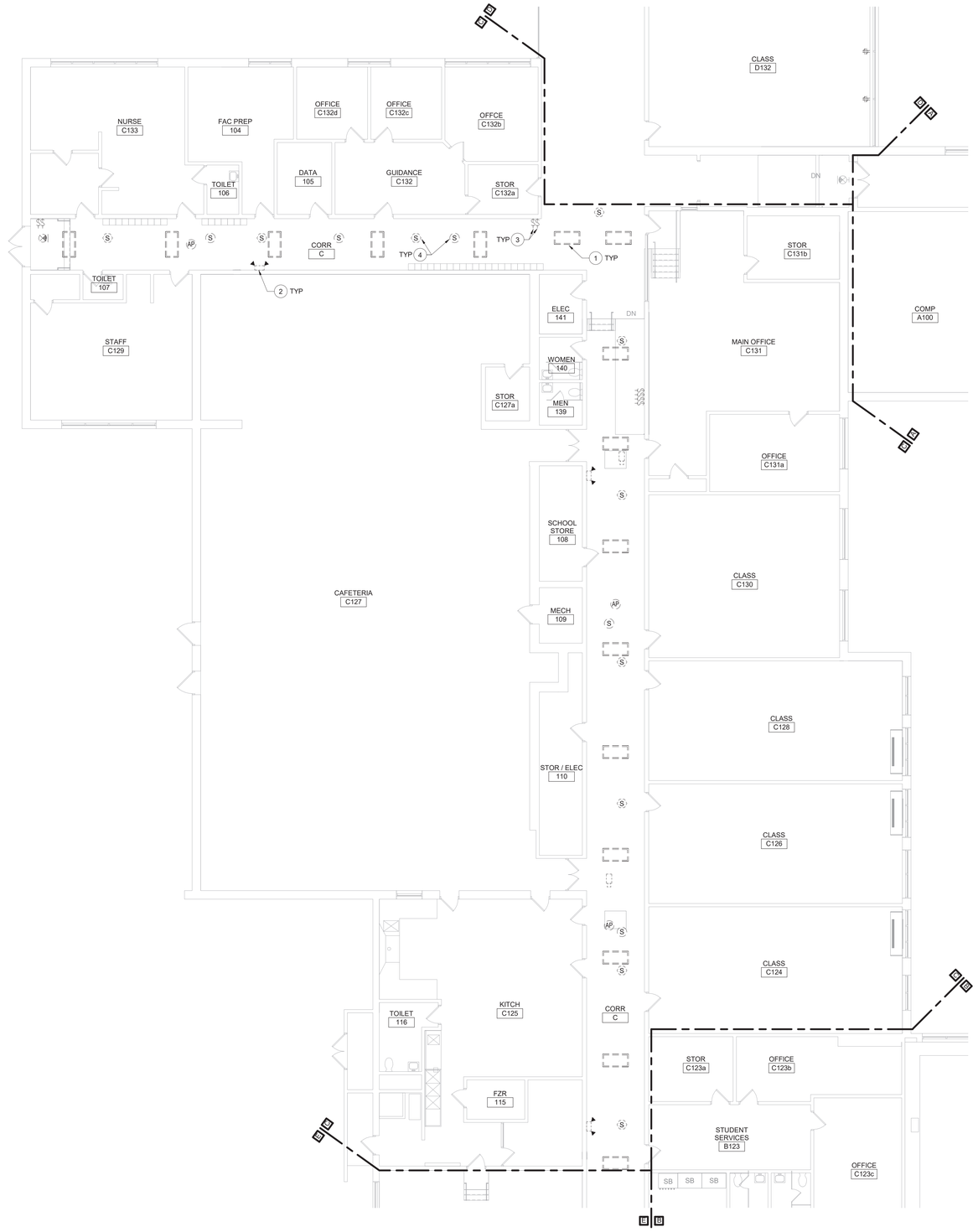
First Floor Demolition Plan - Areas B and E

Drawn By:	Date:	Drawing Number:
SAS	10/28/2022	EE101

Project No.: 279180-22004



2 First Floor Demolition Plan - Area D
1/8" = 1'-0"



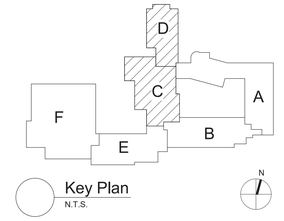
1 First Floor Demolition Plan - Area C
1/8" = 1'-0"

Keyed Notes:

1. REMOVE LUMINAIRE(S) AND CIRCUITRY COMPLETE BACK TO SOURCE.
2. REMOVE WALL OR CEILING MOUNTED EMERGENCY LIGHT. REMOVE EXISTING CIRCUITRY BACK TO NEAREST JUNCTION BOX OR DEVICE OUTSIDE OF DEMOLITION AREA. MODIFY EXISTING SYSTEM CIRCUITRY TO ALLOW FOR PROPER OPERATION OF REMAINING DEVICES ON CIRCUIT.
3. REMOVE LIGHT SWITCH(ES) CONTROLLING CORRIDOR LUMINAIRES. REMOVE EXISTING CIRCUITRY BACK TO NEAREST JUNCTION BOX OR DEVICE OUTSIDE OF DEMOLITION AREA. MODIFY EXISTING SYSTEM CIRCUITRY TO ALLOW FOR PROPER OPERATION OF REMAINING DEVICES ON CIRCUIT. PROVIDE BLANK COVER PLATE.
4. REMOVE, CLEAN AND STORE CEILING MOUNTED DEVICES IN CEILINGS THAT ARE BEING REPLACED. TAG CIRCUITRY FOR RE-USE.
5. REMOVE ELECTRICAL DEVICES SHOWN. REMOVE EXISTING CIRCUITRY BACK TO NEAREST JUNCTION BOX, DEVICE OR SWITCH OUTSIDE OF DEMOLITION AREA. MODIFY EXISTING SYSTEM CIRCUITRY TO ALLOW FOR PROPER OPERATION OF REMAINING DEVICES ON CIRCUIT.

General Notes:

A. REFER TO DRAWING EE100 FOR GENERAL NOTES



Key Plan
N.T.S.

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

Rev. No.:	Date:	Description:

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BID SET

TETRA TECH ARCHITECTS & ENGINEERS

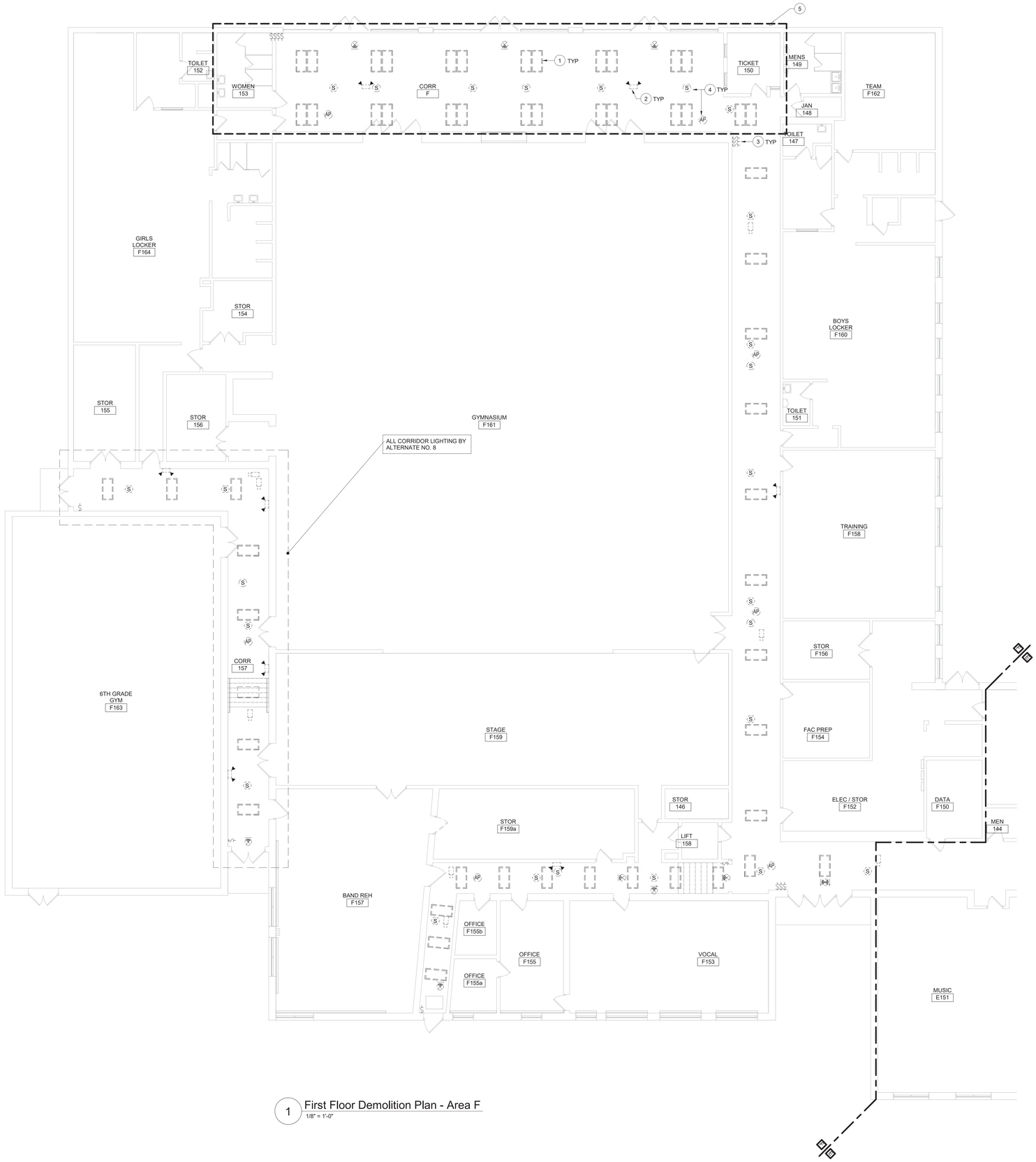
Beacon City School District
Beacon, New York

Reconstruction to:
Rombout Middle School

First Floor Demolition Plan - Areas C and D

Drawn By:	Date:	Drawing Number:
SAS	10/28/2022	EE102

Project No.:
279180-22004



1 First Floor Demolition Plan - Area F
1/8" = 1'-0"

Keyed Notes:

1. REMOVE LUMINAIRE(S) AND CIRCUITRY COMPLETE BACK TO SOURCE.
2. REMOVE WALL OR CEILING MOUNTED EMERGENCY LIGHT. REMOVE EXISTING CIRCUITRY BACK TO NEAREST JUNCTION BOX OR DEVICE OUTSIDE OF DEMOLITION AREA. MODIFY EXISTING SYSTEM CIRCUITRY TO ALLOW FOR PROPER OPERATION OF REMAINING DEVICES ON CIRCUIT.
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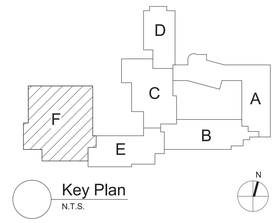
4. REMOVE, CLEAN AND STORE CEILING MOUNTED DEVICES IN CEILINGS THAT ARE BEING REPLACED. TAG CIRCUITRY FOR RE-USE.
5. REMOVE AND REINSTALL, MODIFY, EXTEND, TEMPORARILY SUPPORT, AND PROTECT EXISTING ELECTRICAL RACEWAYS AND CABLES TO ACCOMPLISH STRUCTURAL WORK (VIF), IN AREA SHOWN. REFER TO STRUCTURAL DRAWINGS FOR FURTHER INFORMATION.

General Notes:

A. REFER TO DRAWING EE100 FOR GENERAL NOTES



Key Plan
N.T.S.

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

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TETRA TECH
ARCHITECTS & ENGINEERS

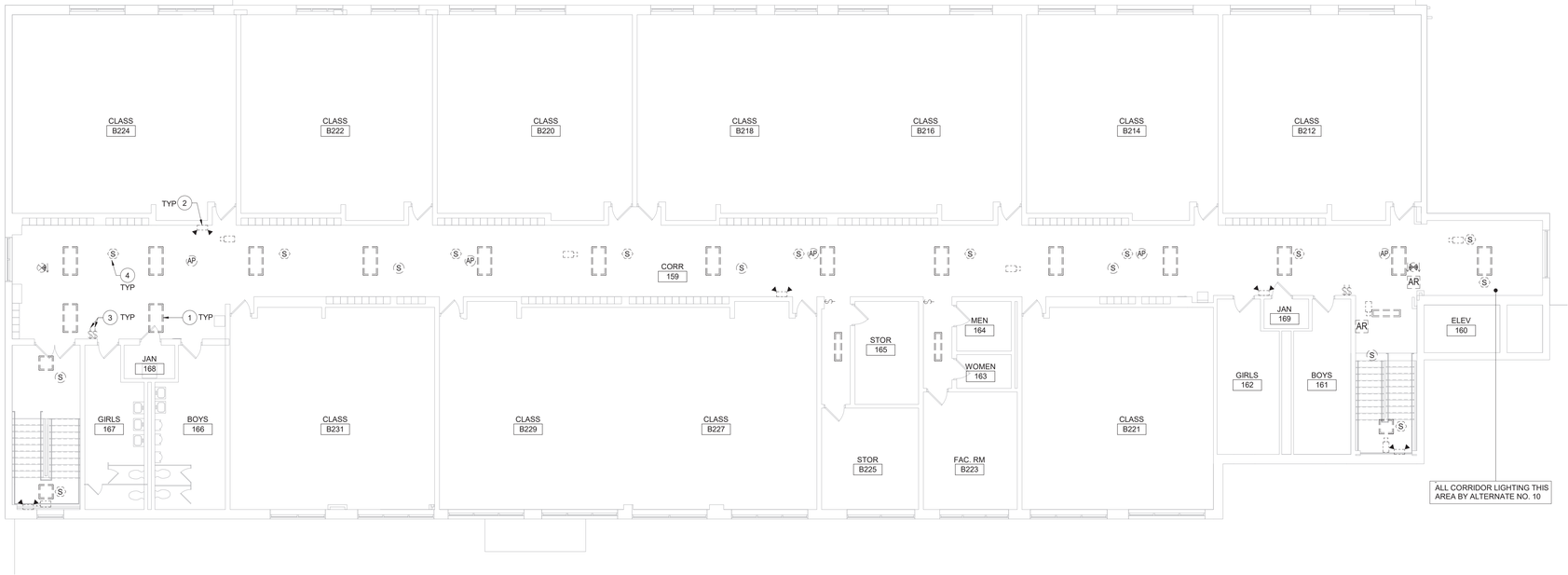
Beacon City School District
Beacon, New York

Reconstruction to:
Rombout Middle School

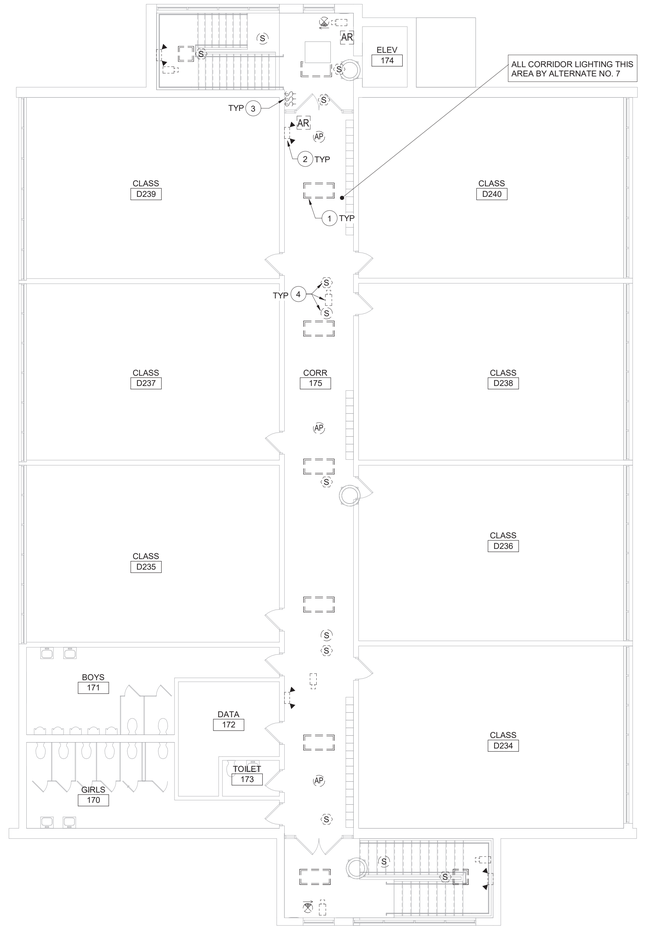
First Floor Demolition Plan - Area F

Drawn By:	Date:	Drawing Number:
SAS	10/28/2022	EE103

Project No.:
279180-22004



1 Second Floor Demolition Plan - Area B
1/8" = 1'-0"



2 Second Floor Demolition Plan - Area D
1/8" = 1'-0"

Keyed Notes:

1. REMOVE LUMINAIRE(S) AND CIRCUITRY COMPLETE BACK TO SOURCE..
2. REMOVE WALL OR CEILING MOUNTED EMERGENCY LIGHT. REMOVE EXISTING CIRCUITRY BACK TO NEAREST JUNCTION BOX OR DEVICE OUTSIDE OF DEMOLITION AREA. MODIFY EXISTING SYSTEM CIRCUITRY TO ALLOW FOR PROPER OPERATION OF REMAINING DEVICES ON CIRCUIT.
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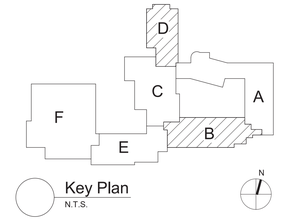
4. REMOVE, CLEAN AND STORE CEILING MOUNTED DEVICES IN CEILINGS THAT ARE BEING REPLACED. TAG CIRCUITRY FOR RE-USE.

General Notes:

A. REFER TO DRAWING EE100 FOR GENERAL NOTES



Key Plan
N.T.S.

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

Rev. No.:	Date:	Description:

BEACON CITY SCHOOL DISTRICT WHERE EXCELLENCE IS THE STANDARD

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

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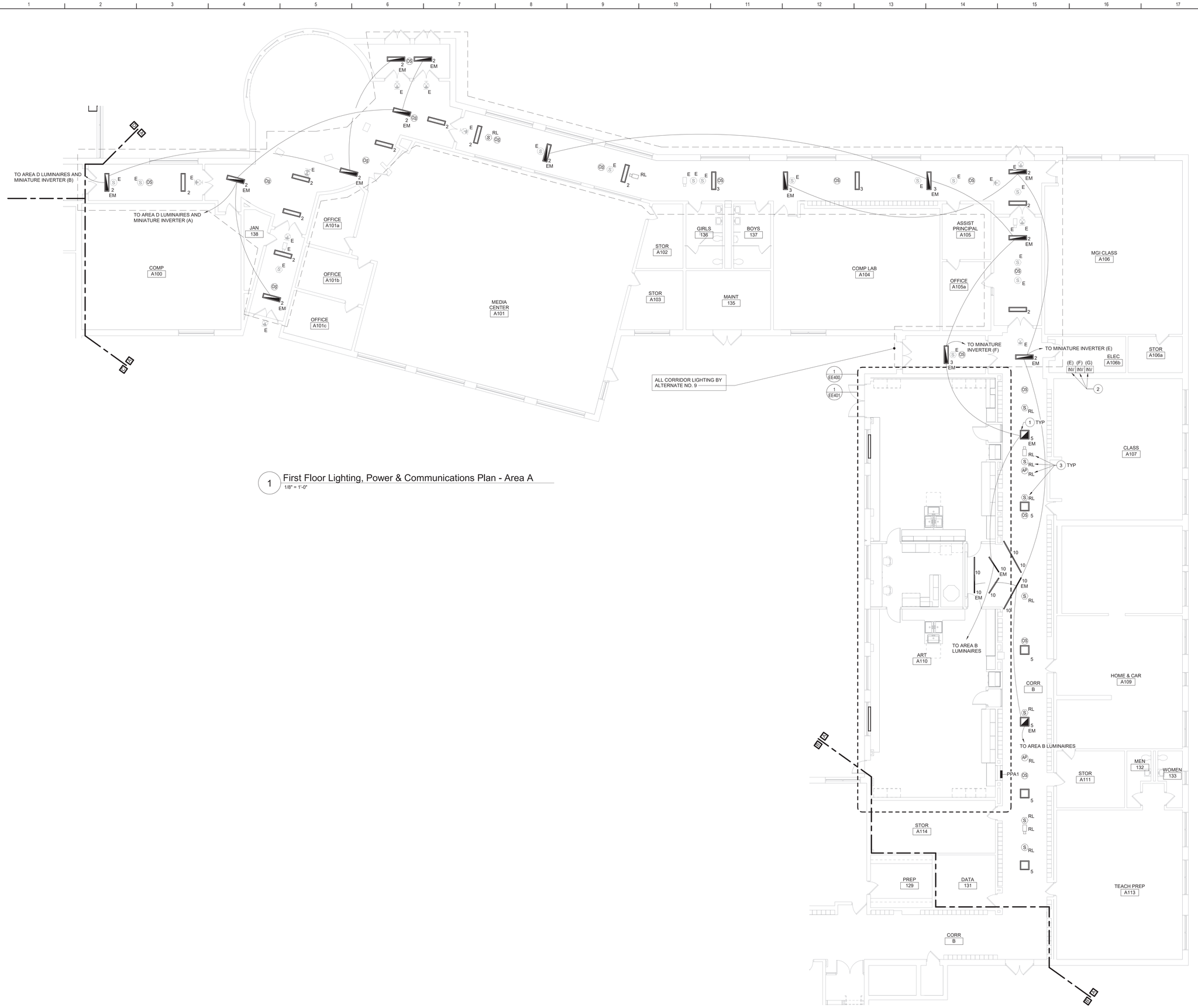
TETRA TECH ARCHITECTS & ENGINEERS

Beacon City School District
Beacon, New York

Reconstruction to:
Rombout Middle School

Second Floor Demolition Plan - Areas B and D

Drawn By:	Date:	Drawing Number:
SAS	10/28/2022	EE104
Project No.: 279180-22004		



1 First Floor Lighting, Power & Communications Plan - Area A

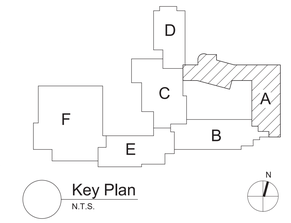
1/8" = 1'-0"

Keyed Notes:

1. CONNECT LUMINAIRES TO EXISTING CIRCUIT BREAKER PREVIOUSLY SERVING THE AREA USING (2)#12, (1)#12 G. IN 1/2" CONDUIT. LUMINAIRES TO BE CONTROLLED BY OCCUPANCY SENSORS AND DIRECT DIGITAL CONTROL SYSTEM.
2. PROVIDE WALL MOUNTED MINIATURE INVERTER BASED ON MODEL VESTA MAX MODEL VST-MAX-375W-UNV-4CK, MOUNT AT 72" AFF. COORDINATE FINAL LOCATION WITH OWNER. CONNECT EVERY OTHER EMERGENCY LUMINAIRE PER CORRIDOR TO ADJACENT INVERTER TO AVOID TOTAL OUTAGE UPON BATTERY FAILURE. REFER TO WIRING DIAGRAM ON DRAWING BE500.
3. REINSTALL STORED CEILING MOUNTED DEVICES IN CEILINGS THAT ARE BEING REPLACED. CENTER DEVICES IN CEILING GRID CLOSEST TO EXISTING LOCATION. MODIFY/EXTEND CIRCUITRY AS NECESSARY.

General Notes:

A. REFER TO DRAWING EE100 FOR GENERAL NOTES.
B. REFER TO DRAWING EE600 FOR LUMINAIRE SCHEDULE.
C. SECURE ALL EXISTING UNSUPPORTED CABLES AND RACEWAYS ABOVE CEILINGS IN CORRIDORS USING J HOOKS, CABLETRAYS OR APPROVED HANGERS AND SUPPORTS.
D. INVERTER SYSTEM EMERGENCY OUTPUT CIRCUITS SHALL BE INSTALLED IN DEDICATED CONDUIT SYSTEMS AND NOT SHARED WITH OTHER ELECTRICAL CIRCUITS AS DESCRIBED IN NEC 700-9(B).
E. TEST FIRE ALARM SYSTEM BEFORE REMOVAL AND AFTER REINSTALLATION OF FIRE ALARM SYSTEM DEVICES. REPORT ANY SYSTEM DEFICIENCIES PRIOR TO REMOVAL OF ANY DEVICES.
F. LIGHTING CONTROL SEQUENCES:
LOBBY/VESTIBULES/CORRIDORS:
PERSON ENTERS THE AREA, LUMINAIRES TURN ON TO 100% OUTPUT AUTOMATICALLY BY OCCUPANCY SENSOR. PERSON EXITS THE AREA, LUMINAIRES DIM TO 50% OUTPUT (MAINTAINING EGRESS LEVEL ILLUMINATION). MANUAL CONTROL BY BUILDING MANAGEMENT SYSTEM.



Key Plan
N.T.S.

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

Rev. No.:	Date:	Description:

BEACON CITY SCHOOL DISTRICT WHERE EXCELLENCE IS THE STANDARD

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ARCHITECTS & ENGINEERS

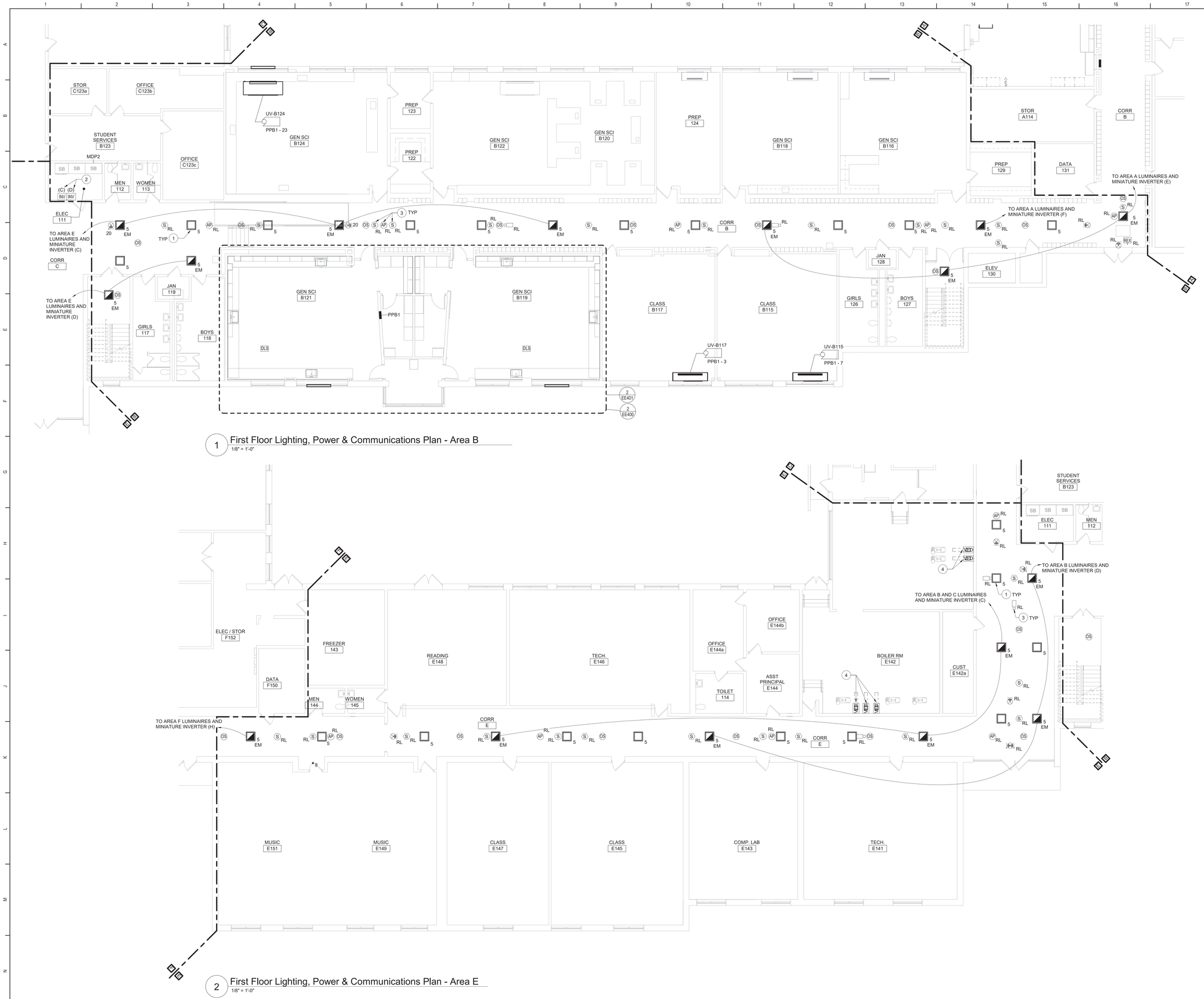
Beacon City School District
Beacon, New York

Reconstruction to:
Rombout Middle School

First Floor Lighting, Power & Communications Plan - Area A

Drawn By:	Date:	Drawing Number:
SAS/CR	10/28/2022	EE130

Project No.: 279180-22004

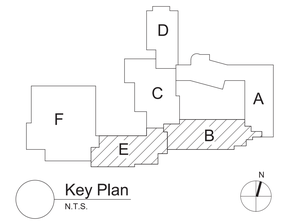


Keyed Notes:

1. CONNECT LUMINAIRES TO EXISTING CIRCUIT BREAKER PREVIOUSLY SERVING THE AREA USING (2)#12, (1)#12 G. IN 1/2" CONDUIT. LUMINAIRES TO BE CONTROLLED BY OCCUPANCY SENSORS AND DIRECT DIGITAL CONTROL SYSTEM.
2. PROVIDE WALL MOUNTED MINIATURE INVERTER BASED ON MODEL VESTA MAX MODEL VST-MAX-375W-UNV-4CK, MOUNT AT 72" AFF. COORDINATE FINAL LOCATION WITH OWNER. CONNECT EVERY OTHER EMERGENCY LUMINAIRE PER CORRIDOR TO ADJACENT INVERTER TO AVOID TOTAL OUTAGE UPON BATTERY FAILURE. REFER TO WIRING DIAGRAM ON DRAWING BE500.
3. REINSTALL STORED CEILING MOUNTED DEVICES IN CEILINGS THAT ARE BEING REPLACED. CENTER DEVICES IN CEILING GRID CLOSEST TO EXISTING LOCATION. MODIFY/EXTEND CIRCUITRY AS NECESSARY.
4. DISCONNECT POWER CIRCUITRY TO EXISTING SHP PUMP. CONNECT POWER CIRCUITRY TO VFD, MODIFY/EXTEND CIRCUITRY AS NECESSARY.

General Notes:

A. REFER TO DRAWING EE100 FOR GENERAL NOTES.
B. REFER TO DRAWING EE600 FOR LUMINAIRE SCHEDULE.
C. SECURE ALL EXISTING UNSUPPORTED CABLES AND RACEWAYS ABOVE CEILINGS IN CORRIDORS USING J HOOKS, CABLETRAYS OR APPROVED HANGERS AND SUPPORTS.
D. INVERTER SYSTEM EMERGENCY OUTPUT CIRCUITS SHALL BE INSTALLED IN DEDICATED CONDUIT SYSTEMS AND NOT SHARED WITH OTHER ELECTRICAL CIRCUITS AS DESCRIBED IN NEC 700-9(B).
E. TEST FIRE ALARM SYSTEM BEFORE REMOVAL AND AFTER REINSTALLATION OF FIRE ALARM SYSTEM DEVICES. REPORT ANY SYSTEM DEFICIENCIES PRIOR TO REMOVAL OF ANY DEVICES.
F. LIGHTING CONTROL SEQUENCES:
LOBBY/VESTIBULES/CORRIDORS:
PERSON ENTERS THE AREA. LUMINAIRES TURN ON TO 100% OUTPUT AUTOMATICALLY BY OCCUPANCY SENSOR. PERSON EXITS THE AREA. LUMINAIRES DIM TO 50% OUTPUT (MAINTAINING EGRESS LEVEL ILLUMINATION) . MANUAL CONTROL BY BUILDING MANAGEMENT SYSTEM.



Key Plan
N.T.S.

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

Rev. No.:	Date:	Description:

BEACON CITY SCHOOL DISTRICT — WHERE EXCELLENCE IS THE STANDARD

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ARCHITECTS & ENGINEERS

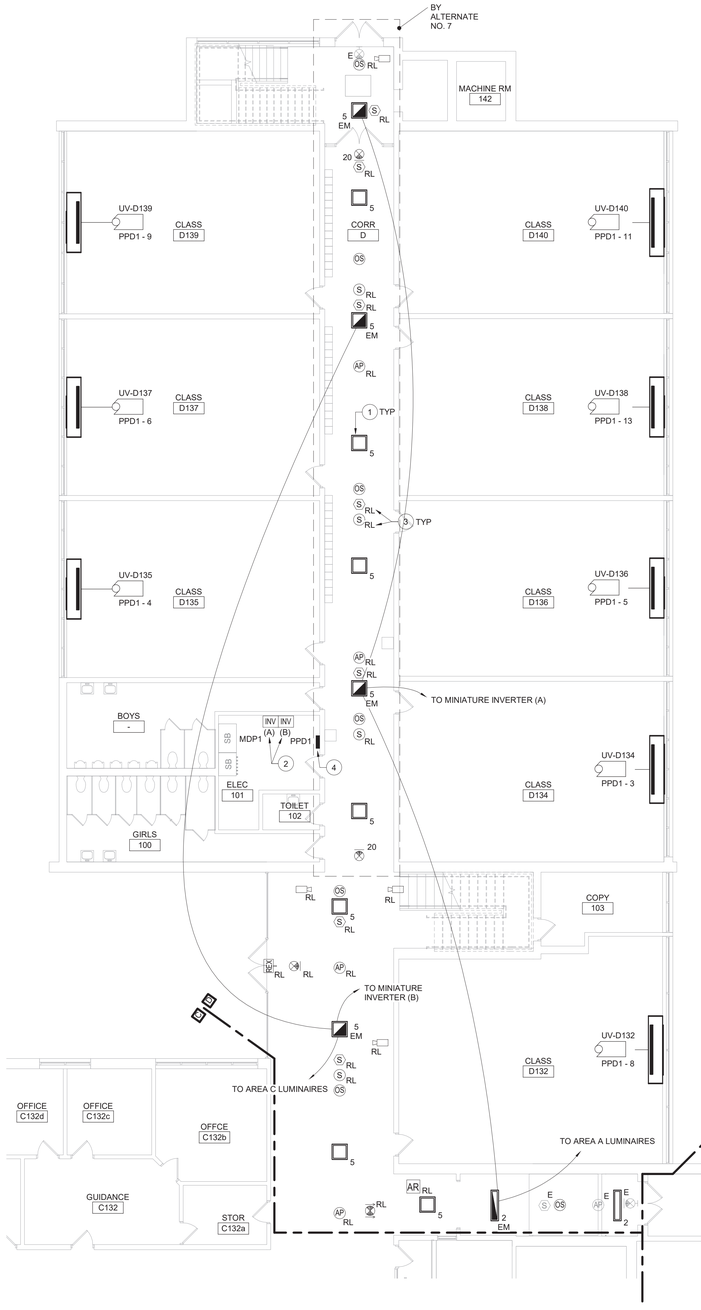
Beacon City School District
Beacon, New York

Reconstruction to:
Rombout Middle School

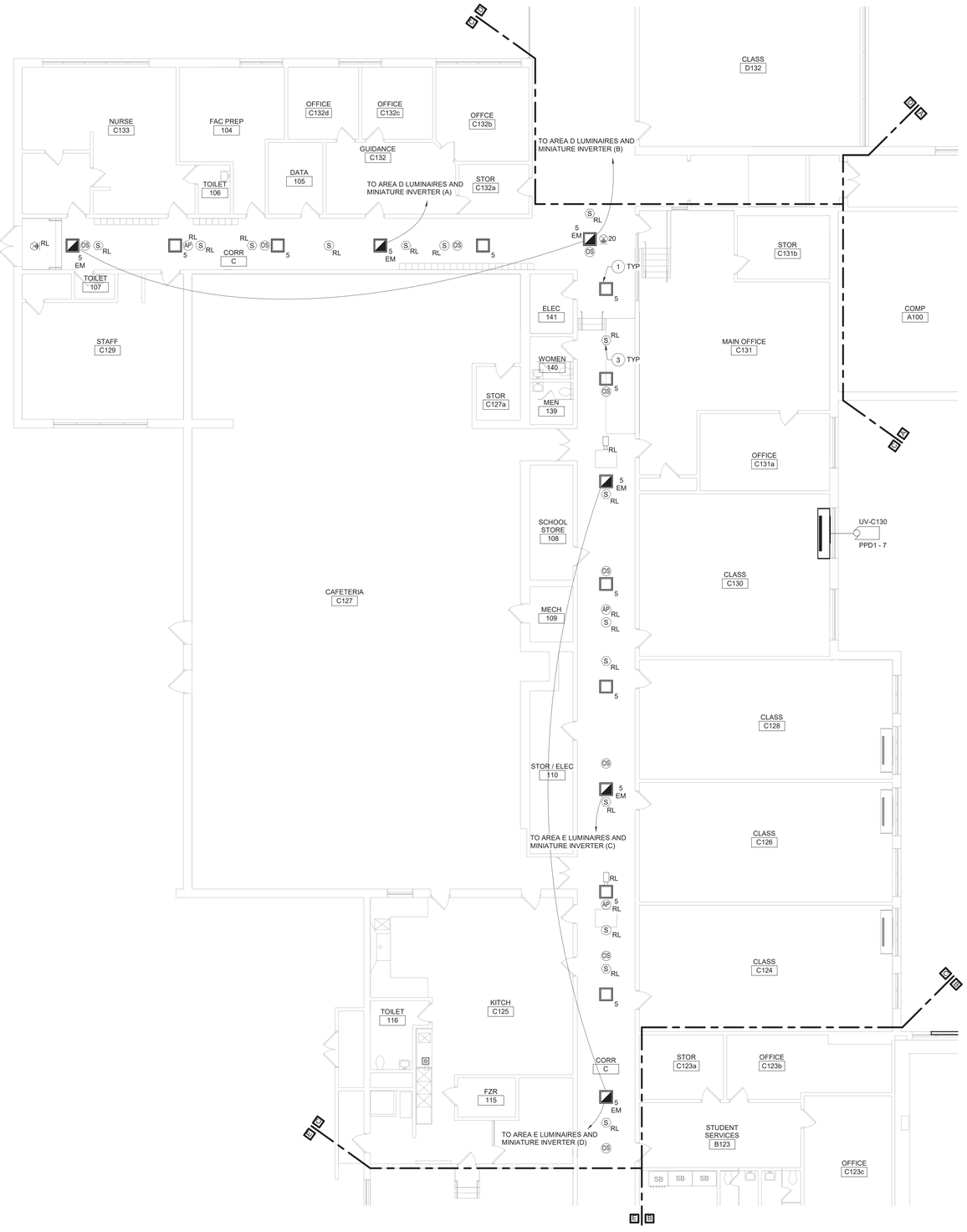
First Floor Lighting, Power & Communications Plan - Areas B and E

Drawn By:	Date:	Drawing Number:
SAS/CR	10/28/2022	EE131

Project No.:
279180-22004



2 First Floor Lighting, Power & Communications Plan - Area D
1/8" = 1'-0"



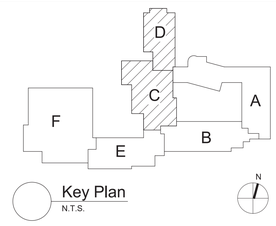
1 First Floor Lighting, Power & Communications Plan - Area C
1/8" = 1'-0"

Keyed Notes:

1. CONNECT LUMINAIRES TO EXISTING CIRCUIT BREAKER PREVIOUSLY SERVING THE AREA USING (2)#12, (1)#12 G. IN 1/2" CONDUIT. LUMINAIRES TO BE CONTROLLED BY OCCUPANCY SENSORS AND DIRECT DIGITAL CONTROL SYSTEM.
2. PROVIDE WALL MOUNTED MINIATURE INVERTER BASED ON MODEL VESTA MAX MODEL VST-MAX-375W-UNV-4CK, MOUNT AT 72" AFF. COORDINATE FINAL LOCATION WITH OWNER. CONNECT EVERY OTHER EMERGENCY LUMINAIRE PER CORRIDOR TO ADJACENT INVERTER TO AVOID TOTAL OUTAGE UPON BATTERY FAILURE. REFER TO WIRING DIAGRAM ON DRAWING BE500.
3. RE-INSTALL STORED CEILING MOUNTED DEVICES IN CEILINGS THAT ARE BEING REPLACED. CENTER DEVICES IN CEILING GRID CLOSEST TO EXISTING LOCATION. MODIFY/EXTEND CIRCUITRY AS NECESSARY.
4. FEED PANEL PPD1 FROM MDP1. PROVIDE 100A3P CIRCUIT BREAKER IN AVAILABLE SPACE IN MDP1. CONNECT USING (4)#2, (1)#8 G. IN 1 1/4" CONDUIT. NEW BREAKER TO BE UL LISTED FOR USE IN PANEL AND MEET OR EXCEED AIC RATING OF EXISTING PANEL.

General Notes:

A. REFER TO DRAWING EE100 FOR GENERAL NOTES.
B. REFER TO DRAWING EE600 FOR LUMINAIRE SCHEDULE.
C. SECURE ALL EXISTING UNSUPPORTED CABLES AND RACEWAYS ABOVE CEILINGS IN CORRIDORS USING J HOOKS, CABLETRAYS OR APPROVED HANGERS AND SUPPORTS.
D. INVERTER SYSTEM EMERGENCY OUTPUT CIRCUITS SHALL BE INSTALLED IN DEDICATED CONDUIT SYSTEMS AND NOT SHARED WITH OTHER ELECTRICAL CIRCUITS AS DESCRIBED IN NEC 700-9(B).
E. TEST FIRE ALARM SYSTEM BEFORE REMOVAL AND AFTER REINSTALLATION OF FIRE ALARM SYSTEM DEVICES. REPORT ANY SYSTEM DEFICIENCIES PRIOR TO REMOVAL OF ANY DEVICES.
F. LIGHTING CONTROL SEQUENCES:
LOBBY/VESTIBULES/CORRIDORS:
PERSON ENTERS THE AREA, LUMINAIRES TURN ON TO 100% OUTPUT AUTOMATICALLY BY OCCUPANCY SENSOR. PERSON EXITS THE AREA, LUMINAIRES DIM TO 50% OUTPUT (MAINTAINING EGRESS LEVEL ILLUMINATION). MANUAL CONTROL BY BUILDING MANAGEMENT SYSTEM.



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

Rev. No.:	Date:	Description:

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TETRA TECH
ARCHITECTS & ENGINEERS

Beacon City School District
Beacon, New York

Reconstruction to:
Rombout Middle School

First Floor Lighting, Power & Communications Plan - Areas C and D

Drawn By:	Date:	Drawing Number:
SAS/CR	10/28/2022	EE132

Project No.: 279180-22004

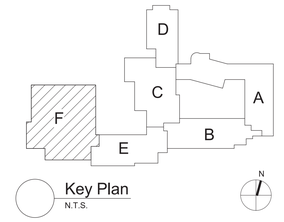
1 First Floor Lighting, Power & Communications Plan - Area F
1/8" = 1'-0"

Keyed Notes:

1. CONNECT LUMINAIRES TO EXISTING CIRCUIT BREAKER PREVIOUSLY SERVING THE AREA USING (2)#12, (1)#12 G. IN 1/2" CONDUIT. LUMINAIRES TO BE CONTROLLED BY OCCUPANCY SENSORS AND DIRECT DIGITAL CONTROL SYSTEM.
2. PROVIDE WALL MOUNTED MINIATURE INVERTER BASED ON MODEL VESTA MAX MODEL VST-MAX-375W-UNV-4CK, MOUNT AT 72" AFF. COORDINATE FINAL LOCATION WITH OWNER. CONNECT EVERY OTHER EMERGENCY LUMINAIRE PER CORRIDOR TO ADJACENT INVERTER TO AVOID TOTAL OUTAGE UPON BATTERY FAILURE. REFER TO WIRING DIAGRAM ON DRAWING BE500.
3. RE-INSTALL STORED CEILING MOUNTED DEVICES IN CEILINGS THAT ARE BEING REPLACED. CENTER DEVICES IN CEILING GRID CLOSEST TO EXISTING LOCATION. MODIFY/EXTEND CIRCUITRY AS NECESSARY.
4. PROVIDE DUCT SMOKE DETECTOR AND FAN SHUTDOWN FOR SUPPLY FAN IN RTU-1 ON ROOF. CONNECT TO EXISTING FIRE ALARM SYSTEM.

General Notes:

A. REFER TO DRAWING EE100 FOR GENERAL NOTES.
B. REFER TO DRAWING EE600 FOR LUMINAIRE SCHEDULE.
C. SECURE ALL EXISTING UNSUPPORTED CABLES AND RACEWAYS ABOVE CEILINGS IN CORRIDORS USING J HOOKS, CABLETRAYS OR APPROVED HANGERS AND SUPPORTS.
D. INVERTER SYSTEM EMERGENCY OUTPUT CIRCUITS SHALL BE INSTALLED IN DEDICATED CONDUIT SYSTEMS AND NOT SHARED WITH OTHER ELECTRICAL CIRCUITS AS DESCRIBED IN NEC 700-9(B).
E. TEST FIRE ALARM SYSTEM BEFORE REMOVAL AND AFTER REINSTALLATION OF FIRE ALARM SYSTEM DEVICES. REPORT ANY SYSTEM DEFICIENCIES PRIOR TO REMOVAL OF ANY DEVICES.
F. LIGHTING CONTROL SEQUENCES:
LOBBY/VESTIBULES/CORRIDORS:
PERSON ENTERS THE AREA. LUMINAIRES TURN ON TO 100% OUTPUT AUTOMATICALLY BY OCCUPANCY SENSOR. PERSON EXITS THE AREA. LUMINAIRES DIM TO 50% OUTPUT (MAINTAINING EGRESS LEVEL ILLUMINATION). MANUAL CONTROL BY BUILDING MANAGEMENT SYSTEM.



Key Plan
N.T.S.

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

Rev. No.:	Date:	Description:

BEACON CITY SCHOOL DISTRICT — WHERE EXCELLENCE IS THE STANDARD

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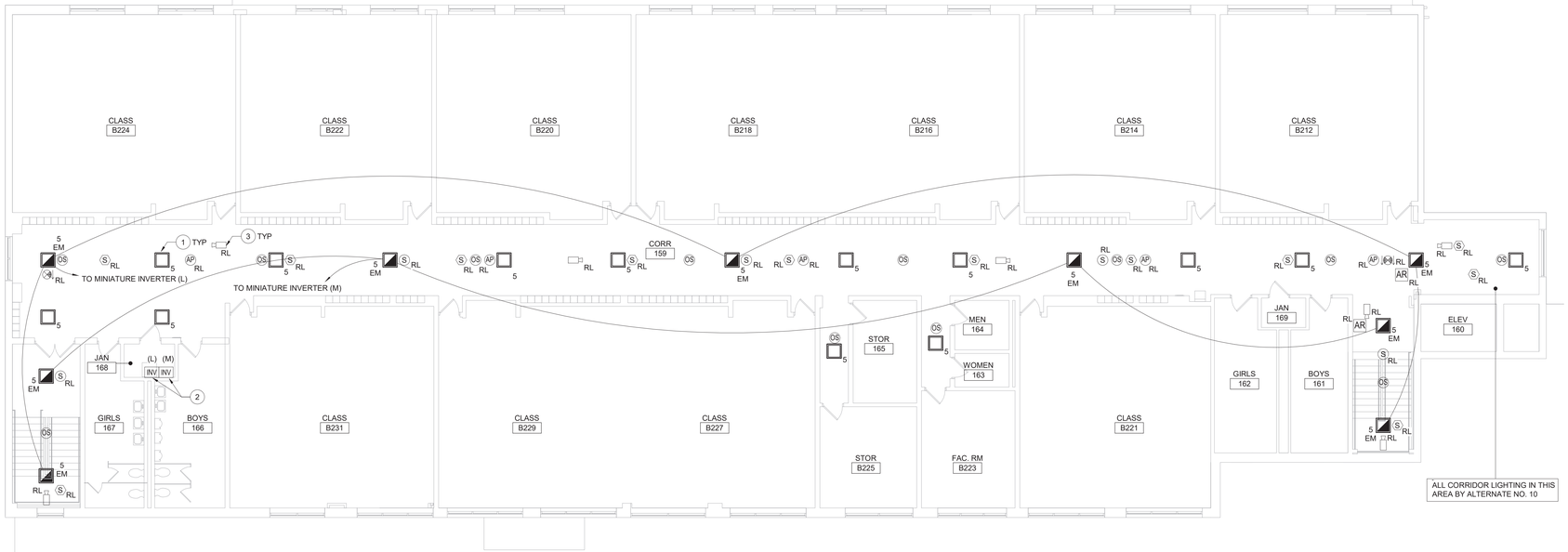
TETRA TECH
ARCHITECTS & ENGINEERS

Beacon City School District
Beacon, New York

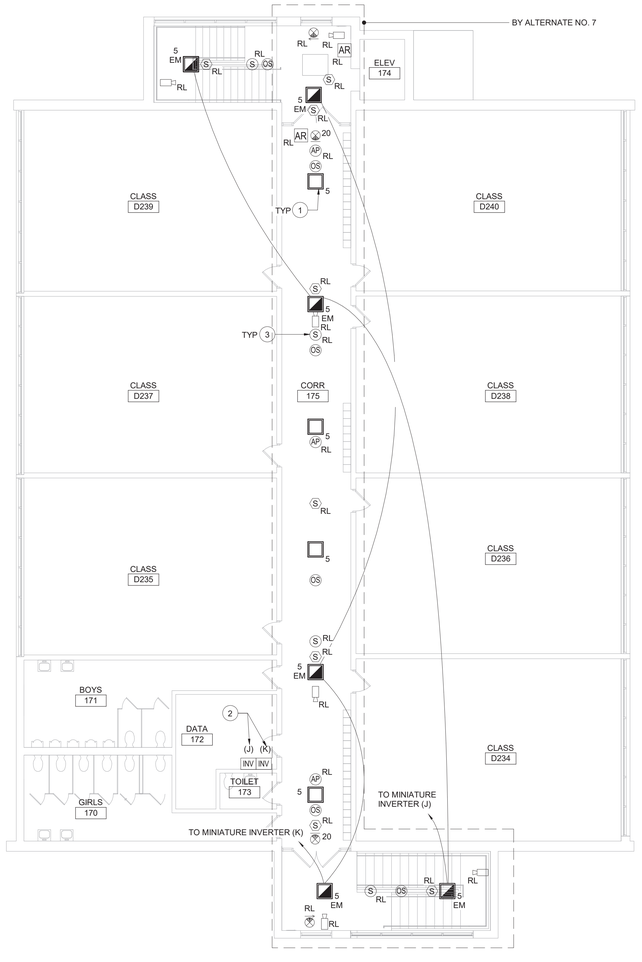
Reconstruction to:
Rombout Middle School

First Floor Lighting, Power & Communications Plan - Area F

Drawn By:	Date:	Drawing Number:
SAS/CR	10/28/2022	EE133
Project No.: 279180-22004		



1 Second Floor Lighting, Power & Communications Plan - Area B
1/8" = 1'-0"



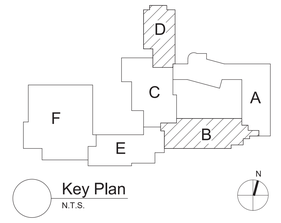
2 Second Floor Lighting, Power & Communications Plan - Area D
1/8" = 1'-0"

Keyed Notes:

1. CONNECT LUMINAIRES TO EXISTING CIRCUIT BREAKER PREVIOUSLY SERVING THE AREA USING (2)#12, (1)#12 G. IN 1/2" CONDUIT. LUMINAIRES TO BE CONTROLLED BY OCCUPANCY SENSORS AND DIRECT DIGITAL CONTROL SYSTEM.
2. PROVIDE WALL MOUNTED MINIATURE INVERTER BASED ON MODEL VESTA MAX MODEL VST-MAX-375W-UNV-4CK, MOUNT AT 72" AFF. COORDINATE FINAL LOCATION WITH OWNER. CONNECT EVERY OTHER EMERGENCY LUMINAIRE PER CORRIDOR TO ADJACENT INVERTER TO AVOID TOTAL OUTAGE UPON BATTERY FAILURE. REFER TO WIRING DIAGRAM ON DRAWING BE500.
3. RE-INSTALL STORED CEILING MOUNTED DEVICES IN CEILINGS THAT ARE BEING REPLACED. CENTER DEVICES IN CEILING GRID CLOSEST TO EXISTING LOCATION. MODIFY/EXTEND CIRCUITRY AS NECESSARY.

General Notes:

A. REFER TO DRAWING EE100 FOR GENERAL NOTES.
B. REFER TO DRAWING EE600 FOR LUMINAIRE SCHEDULE.
C. SECURE ALL EXISTING UNSUPPORTED CABLES AND RACEWAYS ABOVE CEILINGS IN CORRIDORS USING J HOOKS, CABLETRAYS OR APPROVED HANGERS AND SUPPORTS.
D. INVERTER SYSTEM EMERGENCY OUTPUT CIRCUITS SHALL BE INSTALLED IN DEDICATED CONDUIT SYSTEMS AND NOT SHARED WITH OTHER ELECTRICAL CIRCUITS AS DESCRIBED IN NEC 700-9(B).
E. TEST FIRE ALARM SYSTEM BEFORE REMOVAL AND AFTER REINSTALLATION OF FIRE ALARM SYSTEM DEVICES. REPORT ANY SYSTEM DEFICIENCIES PRIOR TO REMOVAL OF ANY DEVICES.
F. LIGHTING CONTROL SEQUENCES:
LOBBY/VESTIBULES/CORRIDORS:
PERSON ENTERS THE AREA, LUMINAIRES TURN ON TO 100% OUTPUT AUTOMATICALLY BY OCCUPANCY SENSOR. PERSON EXITS THE AREA, LUMINAIRES DIM TO 50% OUTPUT (MAINTAINING EGRESS LEVEL ILLUMINATION) . MANUAL CONTROL BY BUILDING MANAGEMENT SYSTEM.



Key Plan
N.T.S.

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

Rev. No.:	Date:	Description:

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TETRA TECH ARCHITECTS & ENGINEERS

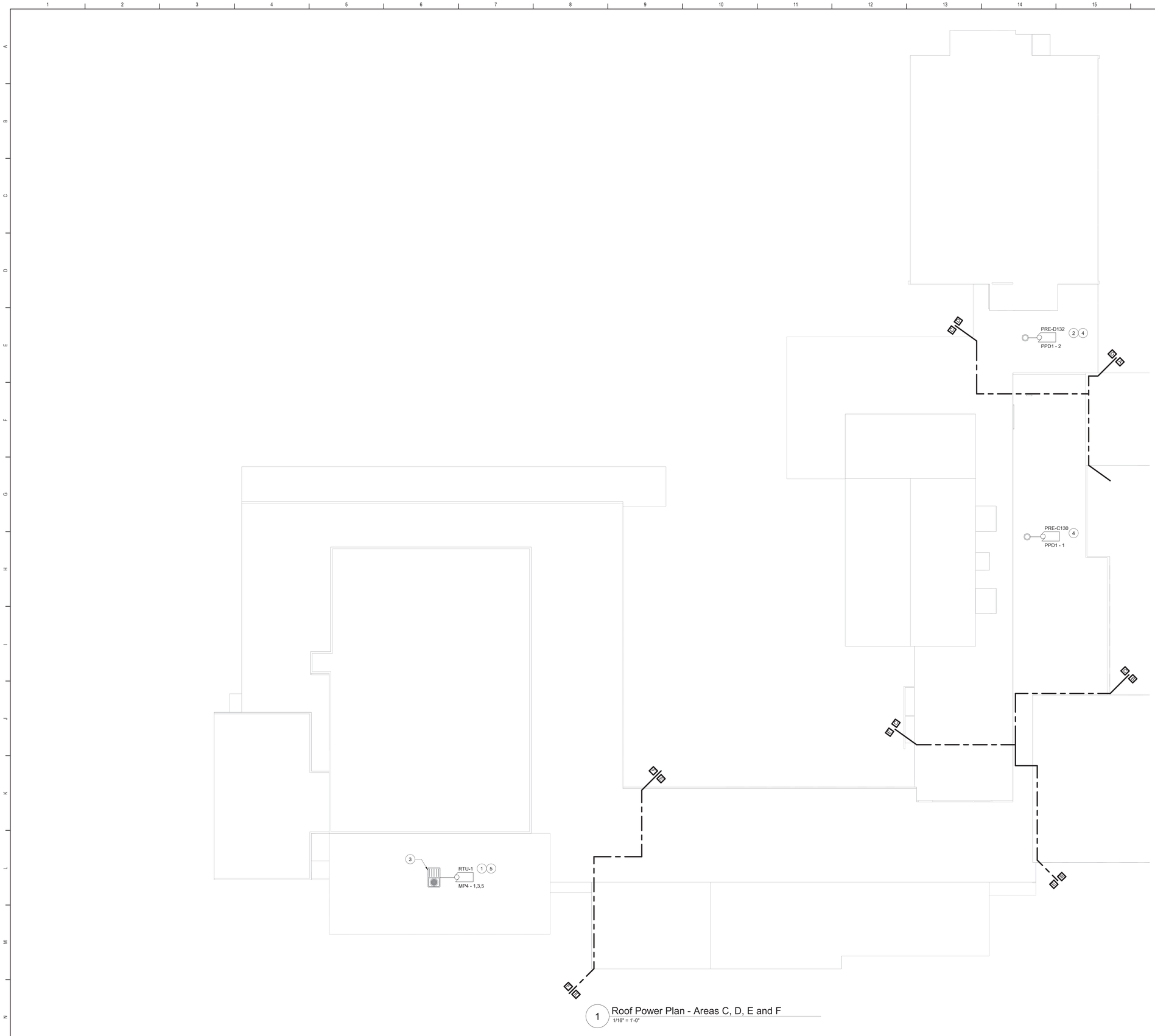
Beacon City School District
Beacon, New York

Reconstruction to:
Rombout Middle School

Second Floor Lighting, Power & Communications Plan - Areas B and D

Drawn By:	Date:	Drawing Number:
SAS/CR	10/28/2022	EE134

Project No.: 279180-22004



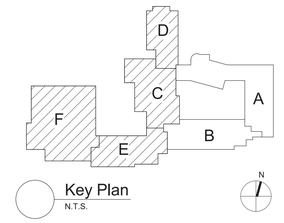
1 Roof Power Plan - Areas C, D, E and F
1/16" = 1'-0"

Keyed Notes:

1. PROVIDE 60A3P CIRCUIT BREAKER IN AVAILABLE SPACE IN PANEL MP4 IN ELEC/STOR F152. CONNECT USING (3)#6, (1)#10 G. IN 3/4" CONDUIT. NEW BREAKER TO BE UL LISTED FOR USE IN PANEL AND MEET OR EXCEED AIC RATING OF EXISTING PANEL.
2. PROVIDE FAN SHUT DOWN RELAY AND CONNECT TO EXISTING FIRE ALARM SYSTEM. WIRE RELAY INTO FAN CONTROL CIRCUIT.
3. REMOVE POWER CIRCUITRY FOR EXHAUST FAN COMPLETE BACK TO SOURCE. LABEL ANY UNUSED CIRCUIT BREAKERS AS "SPARE".
4. REFER TO DRAWING EE600 FOR PANELBOARD SCHEDULE, CIRCUIT BREAKER AND WIRING SIZES.
5. PROVIDE RETURN AIR DUCT SMOKE DETECTOR AND FAN SHUT DOWN RELAY AND CONNECT TO EXISTING FIRE ALARM SYSTEM. WIRE RELAY INTO FAN CONTROL CIRCUIT.

General Notes:

A. REFER TO DRAWING EE100 FOR GENERAL NOTES



Key Plan
N.T.S.

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

Rev. No.:	Date:	Description:

BEACON CITY SCHOOL DISTRICT WHERE EXCELLENCE IS THE STANDARD

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TETRA TECH
ARCHITECTS & ENGINEERS

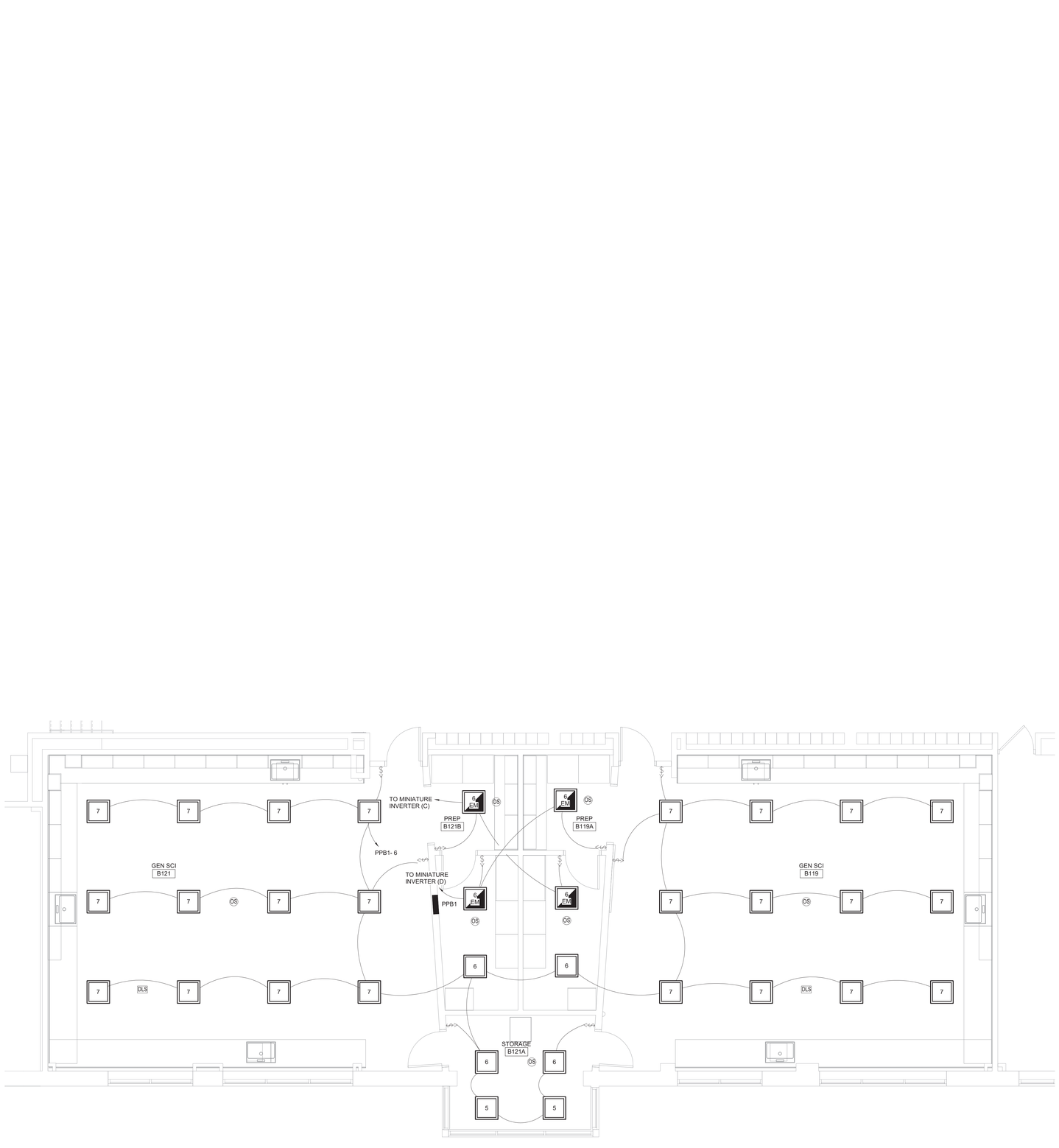
Beacon City School District
Beacon, New York

Reconstruction to:
Rombout Middle School

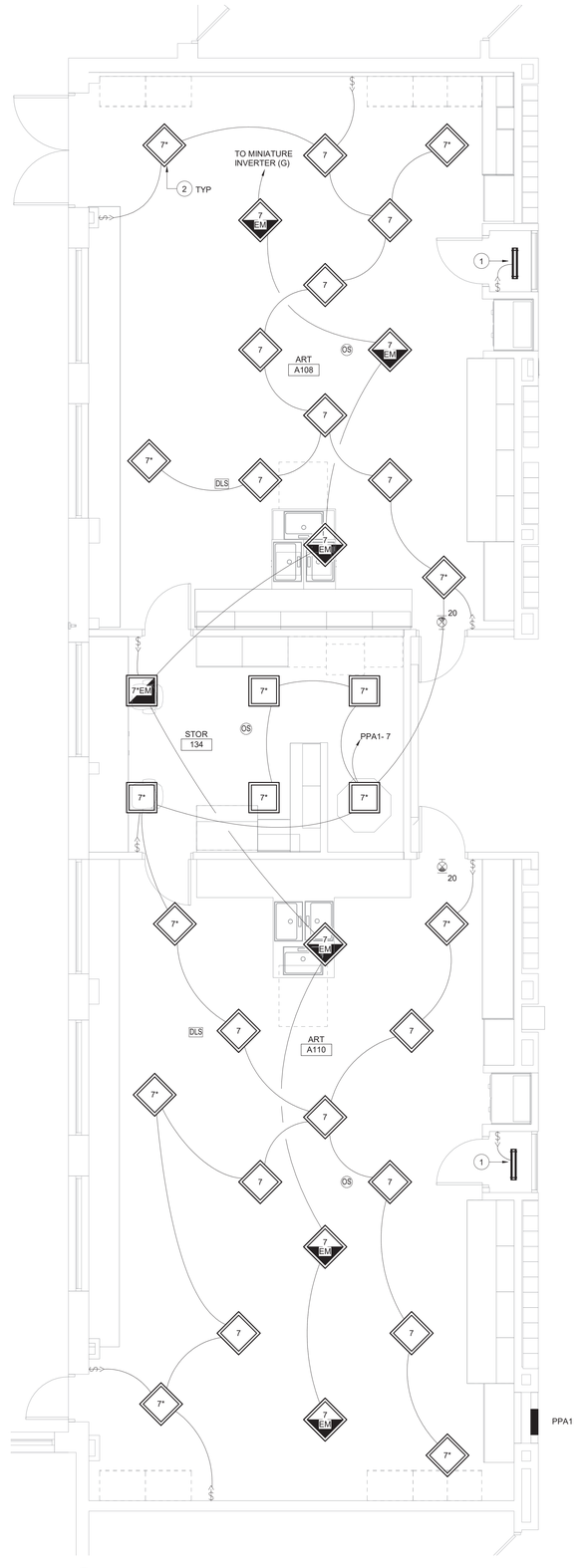
Roof Power Plan - Areas C, D, E and F

Drawn By:	Date:	Drawing Number:
SAS	10/28/2022	EE160

Project No.:
279180-22004



2 Enlarged First Floor Lighting Plan - Area B
1/4" = 1'-0"



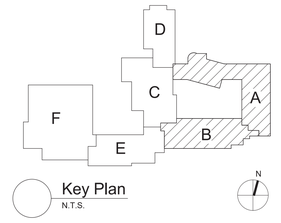
1 Enlarged First Floor Lighting Plan - Area A
1/4" = 1'-0"

Keyed Notes:

1. PROVIDE ULTRA THIN LINEAR WASHER/GRAZER TO EDGE SIDE LIGHT DISPLAY CABINET BASED ON MODEL KELVIX Z3-4-6W-35K-1530-CP-DS 3. CONNECT TO LIGHTING CIRCUIT PREVIOUSLY SERVING THE AREA. LOCATE TRANSFORMER IN CABINETRY OF DISPLAY CASE.
2. MOUNT 7* AND 7*EM 9'-0" AFF TO BOTTOM OF LUMINAIRE.

General Notes:

A. REFER TO DRAWING EE100 FOR GENERAL NOTES.
B. REFER TO DRAWING EE600 FOR LUMINAIRE SCHEDULE.
C. INVERTER SYSTEM EMERGENCY OUTPUT CIRCUITS SHALL BE INSTALLED IN DEDICATED CONDUIT SYSTEMS AND NOT SHARED WITH OTHER ELECTRICAL CIRCUITS AS DESCRIBED IN NEC 700-9(B).
D. LIGHTING CONTROL SEQUENCES:
CLASSROOMS :
(2) ZONE, TEACHING WALL AND GENERAL CLASSROOM EACH OPERATED WITH A (4) BUTTON LOW VOLTAGE LIGHTING CONTROL. BUTTON CAPABLE OF ON/OFF, 50% AND 100% MAY BE MANUALLY ADJUSTED BY EACH LOW VOLTAGE LIGHTING CONTROL PER ZONE. IF LUMINAIRES ARE LEFT ON AND CLASSROOM IS UNOCCUPIED LUMINAIRES WILL TURN OFF WITHIN 15 MINUTES. ONCE ROOM BECOMES OCCUPIED AGAIN LUMINAIRES WILL TURN ON TO LAST LEVEL OR LAST LEVEL SELECTED. DAYLIGHT RESPONSIVE CONTROL WILL DIM ROW OF LUMINAIRES CLOSET TO WINDOW TO PRESET SET POINT OF ROOM TO MAINTAIN UNIFORMITY OF ILLUMINATION.
OFFICES:
PERSON ENTERS THE ROOM AND LUMINAIRES TURN ON TO 50% OUTPUT BY OCCUPANCY SENSOR. WHEN PERSON EXITS THE ROOM THE OCCUPANCY SENSOR WILL TURN OFF THE LUMINARESAFTER 15 MINUTES. LOW VOLTAGE LIGHTING CONTROL. BUTTON CAPABLE OF ON/OFF, 50% AND 100% MAYBE BE MANUALLY ADJUSTED BY BUTTON.
STORAGE:
PERSON ENTERS THE ROOM AND TURNS LUMINAIRES ON TO 100% OUTPUT. WHEN PERSON EXITS THE ROOM THE OCCUPANCY SENSOR WILL TURN OFF THE LUMINAIRES AFTER 15 MINUTES. LOW VOLTAGE LIGHTING CONTROL.



Key Plan
N.T.S.

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

Rev. No.:	Date:	Description:

BEACON CITY SCHOOL DISTRICT — WHERE EXCELLENCE IS THE STANDARD

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

BID SET

TETRA TECH ARCHITECTS & ENGINEERS

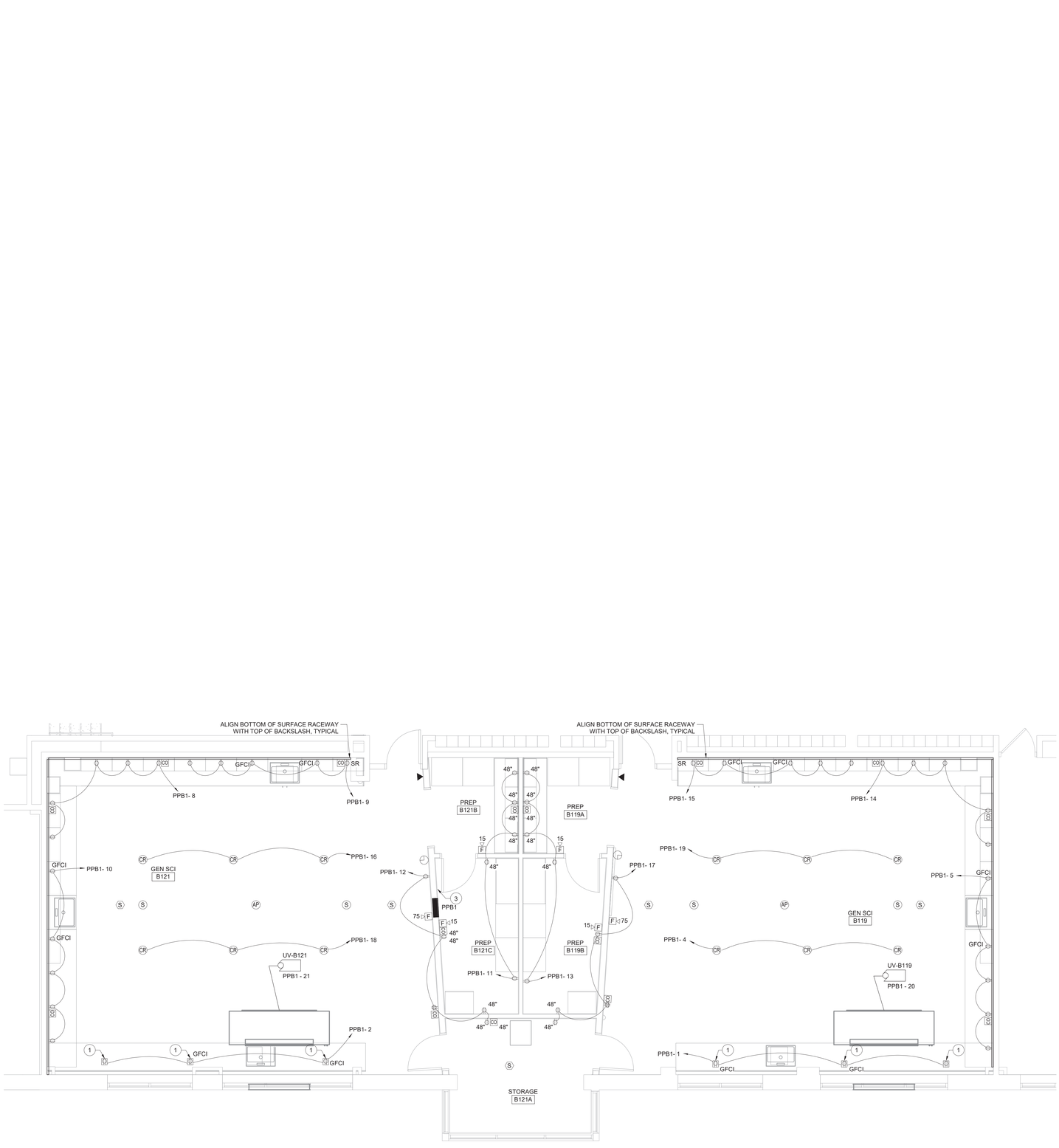
Beacon City School District
Beacon, New York

Reconstruction to:
Rombout Middle School

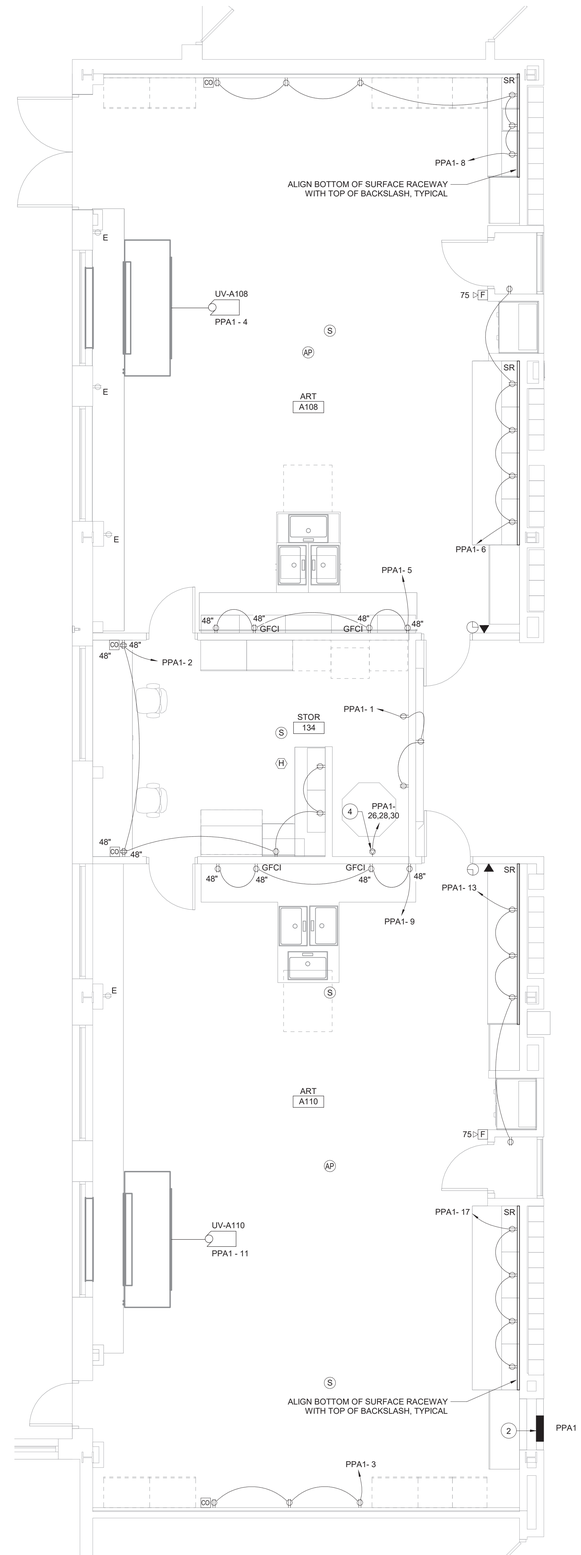
Enlarged Lighting Plans - Areas A and B

Drawn By:	Date:	Drawing Number:
SAS/CR	10/28/2022	EE400

Project No.: 279180-22004



2 Enlarged First Floor Power & Communications Plan - Area B
1/4" = 1'-0"



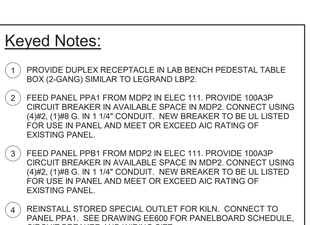
1 Enlarged First Floor Power & Communications Plan - Area A
1/4" = 1'-0"

Keyed Notes:

1. PROVIDE DUPLEX RECEPTACLE IN LAB BENCH PEDESTAL TABLE BOX (2-GANG) SIMILAR TO LEGRAND LBP2.
2. FEED PANEL PPA1 FROM MDP2 IN ELEC 111, PROVIDE 100A3P CIRCUIT BREAKER IN AVAILABLE SPACE IN MDP2. CONNECT USING (4)#2, (1)#8 G. IN 1 1/4" CONDUIT. NEW BREAKER TO BE UL LISTED FOR USE IN PANEL AND MEET OR EXCEED AIC RATING OF EXISTING PANEL.
3. FEED PANEL PPB1 FROM MDP2 IN ELEC 111, PROVIDE 100A3P CIRCUIT BREAKER IN AVAILABLE SPACE IN MDP2. CONNECT USING (4)#2, (1)#8 G. IN 1 1/4" CONDUIT. NEW BREAKER TO BE UL LISTED FOR USE IN PANEL AND MEET OR EXCEED AIC RATING OF EXISTING PANEL.
4. REINSTALL STORED SPECIAL OUTLET FOR KILN. CONNECT TO PANEL PPA1. SEE DRAWING EE600 FOR PANELBOARD SCHEDULE, CIRCUIT BREAKER AND WIRING SIZE.

General Notes:

A. REFER TO DRAWING EE100 FOR GENERAL NOTES.
B. FIRE ALARM DEVICES ARE TO BE WIRED TO EXISTING NOTIFICATION CIRCUITS.
C. SPEAKERS ARE TO BE COMPATIBLE AND WIRED TO EXISTING PA SYSTEM.
D. CLOCKS ARE TO BE COMPATIBLE WITH EXISTING CLOCK SYSTEM.



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

Rev. No.:	Date:	Description:

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

BID SET

TETRA TECH ARCHITECTS & ENGINEERS

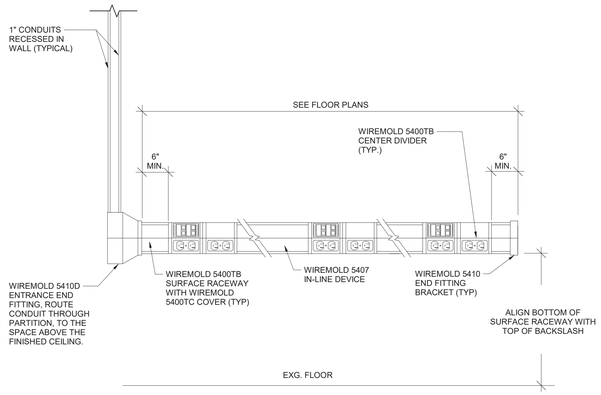
Beacon City School District
Beacon, New York

Reconstruction to:
Rombout Middle School

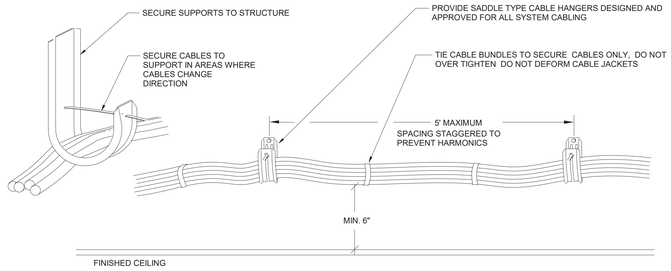
Enlarged Power & Communications Plans - Areas A and B

Drawn By:	Date:	Drawing Number:
SAS	10/28/2022	EE401

Project No.: 279180-22004



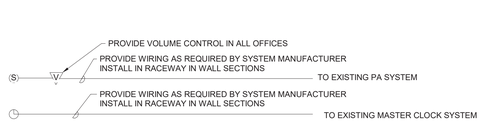
4 Typical Surface Raceway Installation Details
NTS



INSTALLATION NOTES:

1. LOCATE CABLE BUNDLES A MINIMUM OF 6" ABOVE REMOVABLE CEILINGS TO MAINTAIN CLEARANCE (ALONG WALLS WHERE POSSIBLE). LOCATE IN AREAS THAT ARE ACCESSIBLE.
2. USE 2 OR MORE CABLE HANGERS AT ALL TURNS TO MAINTAIN MANUFACTURER'S BEND RADIUS REQUIREMENTS.
3. THIS SUPPORT SYSTEM TO BE USED WHEREVER CABLE TRAY IS NOT INDICATED ON PLANS.

1 Typical Installation with Cable Hangars
NTS

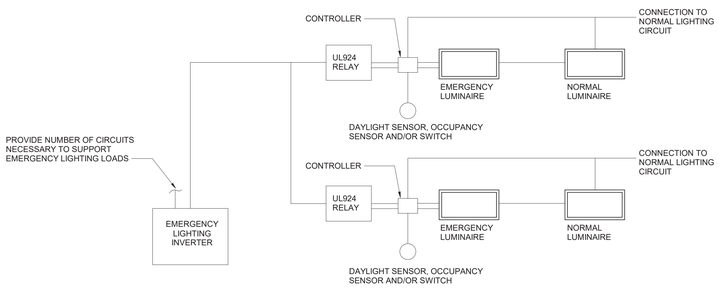


5 Clock and Speaker System Wiring Diagram
NTS

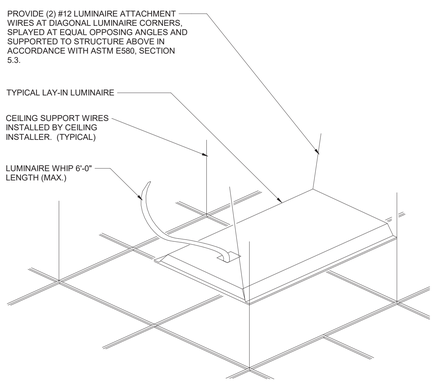
DETAIL NOTES:

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.

2 Ceiling Mounting Device Detail
NTS



6 Emergency Miniature Inverter Wiring Diagram
NTS



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

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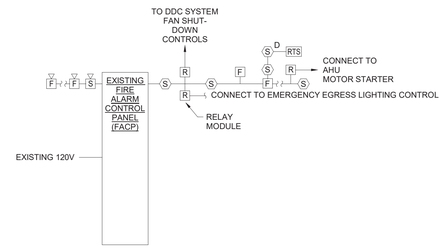
Beacon City School District
Beacon, New York

Reconstruction to:
Rombout Middle School

Details

Drawn By:	Date:	Drawing Number:
SAS	10/28/2022	EE500
Project No.: 279180-22004		



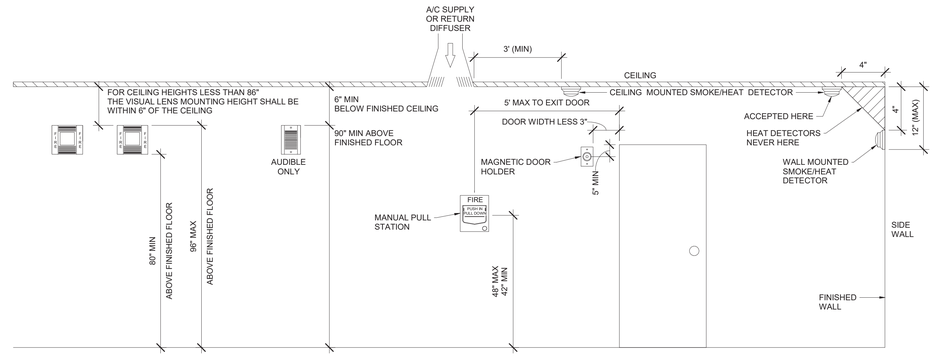
FIRE ALARM SEQUENCE OF OPERATION

A. UPON ACTIVATION TROUBLE CONDITION THE FIRE ALARM PANEL SHALL GO INTO "TROUBLE" MODE INDICATING WHICH ZONE IS IN TROUBLE BY A LIGHT IN THE REMOTE ANNUNCIATOR AND AT THE FIRE ALARM PANEL.

NOTES:
1. FIRE ALARM RISER IS INTENDED TO BE SCHEMATIC ONLY. ALL DEVICES INDICATED ON PLANS AND DETAILS ARE TO BE INSTALLED AND CONNECTED FOR PROPER OPERATION OF SYSTEM.

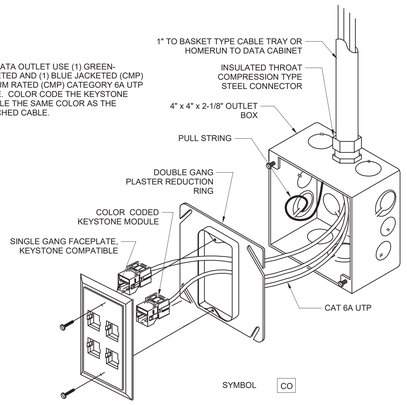
2. WIRE NEW DEVICES INTO EXISTING WIRING OR PROVIDE A NEW CIRCUIT AS DIRECTED BY FIRE ALARM SYSTEM REPRESENTATIVE.

6 Fire Alarm System Wiring Diagram
NTS

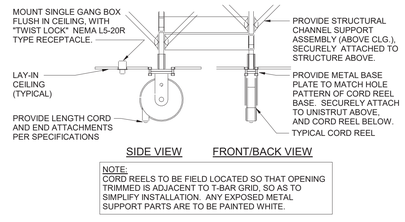


1 Typical Mounting Heights
NTS

NOTE:
FOR DATA OUTLET USE (1) GREEN-JACKETED AND (1) BLUE JACKETED (CMP) PLENUM RATED (CMP) CATEGORY 6A UTP CABLE. COLOR CODE THE KEYSTONE MODULE THE SAME COLOR AS THE ATTACHED CABLE.

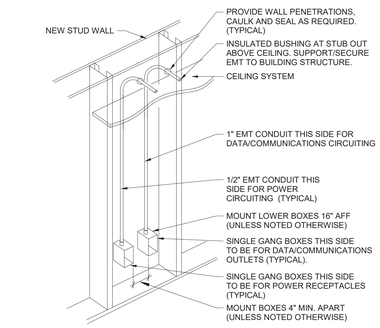


7 Data Outlet
NTS

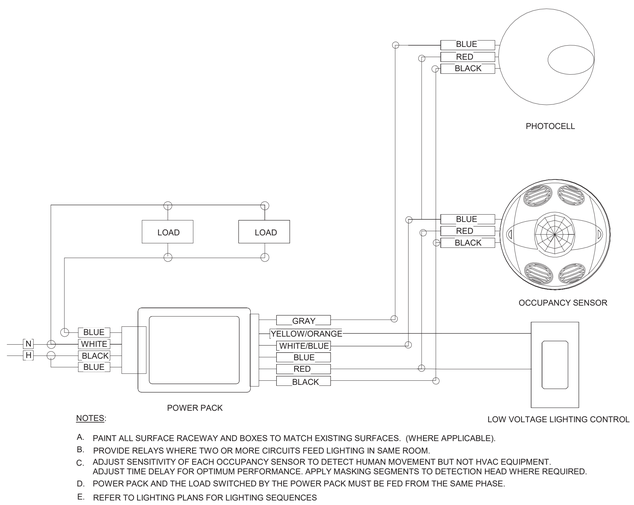


NOTE:
CORD REELS TO BE FIELD LOCATED SO THAT OPENING TRIMMED IS ADJACENT TO T-BAR GRID, SO AS TO SIMPLIFY INSTALLATION. ANY EXPOSED METAL SUPPORT PARTS ARE TO BE PAINTED WHITE.

4 Cord Reel Mounting Detail
NTS

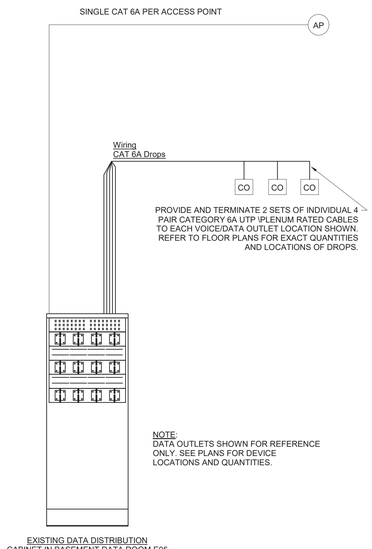


2 Conduit/Backbox Installation Detail
NTS

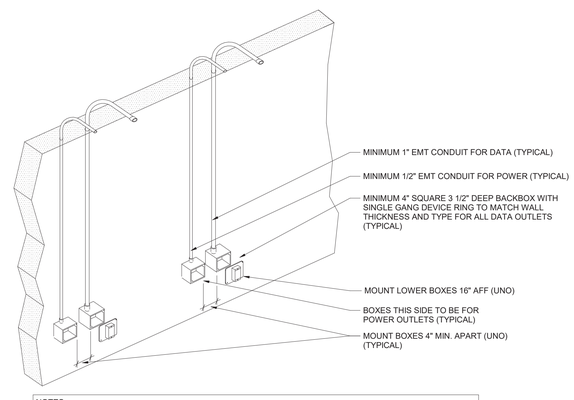


NOTES:
A. PAINT ALL SURFACE RACEWAY AND BOXES TO MATCH EXISTING SURFACES. (WHERE APPLICABLE).
B. PROVIDE RELAYS WHERE TWO OR MORE CIRCUITS FEED LIGHTING IN SAME ROOM.
C. ADJUST SENSITIVITY OF EACH OCCUPANCY SENSOR TO DETECT HUMAN MOVEMENT BUT NOT HVAC EQUIPMENT. ADJUST TIME DELAY FOR OPTIMUM PERFORMANCE. APPLY MASKING SEGMENTS TO DETECTION HEAD WHERE REQUIRED.
D. POWER PACK AND THE LOAD SWITCHED BY THE POWER PACK MUST BE FED FROM THE SAME PHASE.
E. REFER TO LIGHTING PLANS FOR LIGHTING SEQUENCES

8 Daylight Responsive Controls Wiring Diagram
NTS



5 Data Distribution Riser Diagram
NTS



NOTES:
1. PROVIDE LARGER BOXES AND CONDUIT SIZES WHEN REQUIRED TO ACCOMMODATE DEVICES AND WIRING
2. COORDINATE QUANTITY OF DEVICES AND TYPE OF DEVICE REQUIRED WITH FLOOR PLANS
3. COORDINATE CONDUIT LOCATIONS WITH OTHER TRADES AND OWNER PRIOR TO INSTALLATION

3 Conduit/Backbox Installation Detail
NTS

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

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BID SET

TETRA TECH ARCHITECTS & ENGINEERS

Beacon City School District
Beacon, New York

Reconstruction to:
Rombout Middle School

Details

Drawn By:	Date:	Drawing Number:
SAS	10/28/2022	EE501
Project No.: 279180-22004		

LUMINAIRE SCHEDULE

TYPE	SYMBOL	DESCRIPTION	LAMPS			MANUFACTURERS (OR EQUAL)	
			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 EM **		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-W
20		EXIT SIGN (SINGLE FACE) WALL AND CEILING MOUNT. SEE PLANS FOR DIRECTIONAL INDICATORS	2.5		LED	SIGNIFY (CHLORIDE)	ER46L-2-W-R

** LUMINAIRE TYPE NOT USED IN THIS BUILDING
* PROVIDE SUSPENSION KIT

* MANUFACTURER AND MODEL NUMBER ARE PROVIDED TO SHOW BASIS OF DESIGN ONLY.

PANELBOARD: PPA1

Location: CORR A | Recessed **MOUNTED** | 10,000 **SYM. A.I.C....** | **ENCLOSURE TYPE** Type 1

____ **AMP MAIN (LUGS) OR** 100 A **AMP MAIN BREAKER WITH** 100 A **AMP TRIP**

SE LABEL ____

208Y/120V VOLTS 3 **PHASE** 4 **WIRE** 60 **HERTZ** 100 A **AMP BUS**

CKT NO.	POLES	TRIP AMPS	WIRE AWG	# OF WIRES	GRN. AWG	CONDUIT INCH	LOAD SERVED	A		B		C		LOAD SERVED	CONDUIT INCH	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
							TOTAL CONNECTED LOAD PER PHASE...	7915 VA		7020 VA		8100 VA									
								A		B		C									

* -GFCI BREAKER ** -SHUNT TRIP BREAKER

ALL WIRE SIZE IS (2)#12, (1)#12 G. IN 1/2" CONDUIT, UNLESS NOTED OTHERWISE

TOTAL CONNECTED LOAD: 64 A
TOTAL CONNECTED LOAD: 23.031 kVA

-PROVIDE BREAKER AS REQUIRED BY PANELBOARD MANUFACTURER FOR...

SUPPLIED FROM: MDP2

PANELBOARD: PPB1

Location: PREP B121C | Recessed **MOUNTED** | 10,000 **SYM. A.I.C....** | **ENCLOSURE TYPE** Type 1

____ **AMP MAIN (LUGS) OR** 100 A **AMP MAIN BREAKER WITH** 100 A **AMP TRIP**

SE LABEL ____

208Y/120V VOLTS 3 **PHASE** 4 **WIRE** 60 **HERTZ** 100 A **AMP BUS**

CKT NO.	POLES	TRIP AMPS	WIRE AWG	# OF WIRES	GRN. AWG	CONDUIT INCH	LOAD SERVED	A		B		C		LOAD SERVED	CONDUIT INCH	GRN. AWG	# OF WIRES	WIRE AWG	TRIP AMPS	POLES	CKT NO.
1	1	20 A					RCPT: B119	540 VA	540 VA					RCPT: B121					20 A	1	2
3	1	15 A					UV-B117			860 VA	1080 VA			RCPT: CORD REEL...					20 A	1	4
5	1	20 A					RCPT: B119					900 VA	1023 VA	LTG: B119 & B121					20 A	1	6
7	1	15 A					UV-B115	860 VA	900 VA					RCPT: B121					20 A	1	8
9	1	20 A					RCPT: B121			900 VA	900 VA			RCPT: B121					20 A	1	10
11	1	20 A					RCPT: B121B, B121C					900 VA	900 VA	RCPT: B121					20 A	1	12
13	1	20 A					RCPT: B119A, B119B	900 VA	900 VA					RCPT: B119					20 A	1	14
15	1	20 A					RCPT: B119			900 VA	1080 VA			RCPT: CORD REEL...					20 A	1	16
17	1	20 A					RCPT: B119					900 VA	1080 VA	RCPT: CORD REEL...					20 A	1	18
19	1	20 A					RCPT: CORD REEL...	1080 VA	1920 VA					UV-B119					25 A	1	20
21	1	25 A					UV-B121			1920 VA	0 VA			SPARE					20 A	1	22
23	1	25 A					UV-B124					1920 VA	0 VA	SPARE					20 A	1	24
25	1	20 A					SPARE	0 VA	0 VA					SPARE					20 A	1	26
27	1	20 A					SPARE			0 VA	0 VA			SPARE					20 A	1	28
29	1	20 A					SPARE					0 VA	0 VA	SPARE					20 A	1	30
							TOTAL CONNECTED LOAD PER PHASE...	7640 VA		7640 VA		7578 VA									
								A		B		C									

* -GFCI BREAKER ** -SHUNT TRIP BREAKER

ALL WIRE SIZE IS (2)#12, (1)#12 G. IN 1/2" CONDUIT, UNLESS NOTED OTHERWISE

TOTAL CONNECTED LOAD: 63 A
TOTAL CONNECTED LOAD: 22.854 kVA

-PROVIDE BREAKER AS REQUIRED BY PANELBOARD MANUFACTURER FOR...

SUPPLIED FROM: MDP2

PANELBOARD: PPD1

Location: ELEC 101 | Surface **MOUNTED** | 10,000 **SYM. A.I.C....** | **ENCLOSURE TYPE** Type 1

____ **AMP MAIN (LUGS) OR** 100 A **AMP MAIN BREAKER WITH** 100 A **AMP TRIP**

SE LABEL ____

208Y/120V VOLTS 3 **PHASE** 4 **WIRE** 60 **HERTZ** 100 A **AMP BUS**

CKT NO.	POLES	TRIP AMPS	WIRE AWG	# OF WIRES	GRN. AWG	CONDUIT INCH	LOAD SERVED	A		B		C		LOAD SERVED	CONDUIT INCH	GRN. AWG	# OF WIRES	WIRE AWG	TRIP AMPS	POLES	CKT NO.
1	1	20 A					PRE-C130	0 VA	0 VA					PRE-D132					20 A	1	2
3	1	15 A					UV-D134			860 VA	860 VA			UV-D135					15 A	1	4
5	1	15 A					UV-D136					860 VA	860 VA	UV-D137					15 A	1	6
7	1	15 A					UV-C130	860 VA	860 VA					UV-D132					15 A	1	8
9	1	15 A					UV-D139			860 VA	0 VA			SPARE					20 A	1	10
11	1	15 A					UV-D140					860 VA	0 VA	SPARE					20 A	1	12
13	1	15 A					UV-D138	860 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					SPARE					0 VA	0 VA	SPARE					20 A	1	18
							TOTAL CONNECTED LOAD PER PHASE...	2580 VA		2580 VA		2580 VA									
								A		B		C									

* -GFCI BREAKER ** -SHUNT TRIP BREAKER

ALL WIRE SIZE IS (2)#12, (1)#12 G. IN 1/2" CONDUIT, UNLESS NOTED OTHERWISE

TOTAL CONNECTED LOAD: 21 A
TOTAL CONNECTED LOAD: 7.740 kVA

-PROVIDE BREAKER AS REQUIRED BY PANELBOARD MANUFACTURER FOR...

SUPPLIED FROM: MDP1

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

Rev. No.:	Date:	Description:

BEACON CITY SCHOOL DISTRICT — WHERE EXCELLENCE IS THE STANDARD

complex world | CLEAR SOLUTIONS

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

BID SET

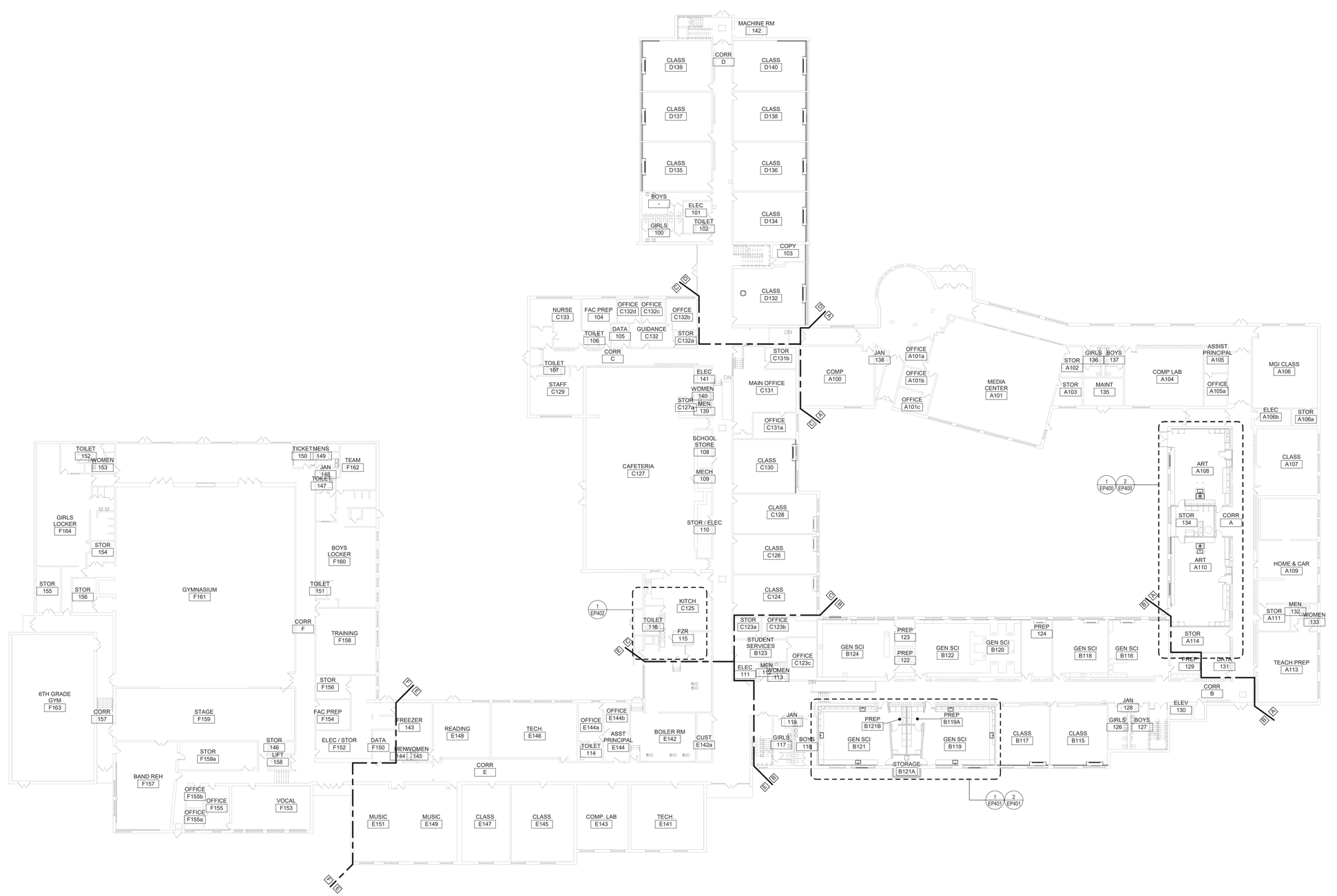
TETRA TECH ARCHITECTS & ENGINEERS

Beacon City School District
Beacon, New York

Reconstruction to:
Rombout Middle School

Schedules

Drawn By:	Date:	Drawing Number:
SAS	10/28/2022	EE600
Project No.: 279180-22004		



1 First Floor - Key Plan
1" = 20'-0"

General Notes

A. VERIFY ALL PIPING LOCATIONS, SIZES, AND ARRANGEMENTS IN FIELD PRIOR TO BID. NOTIFY ARCHITECT IN WRITING OF ANY DISCREPANCIES.

B. VERIFY IN FIELD INVERT AND DIRECTION OF FLOW IN EXISTING SOIL PIPE WHERE NEW SOIL PIPE IS TO BE CONNECTED TO EXISTING SOIL PIPE.

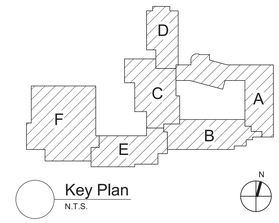
C. LEGALLY DISPOSE OF ALL DEMOLITION DEBRIS.

D. INCLUDE TRENCHING, CUTTING AND PATCHING OF FLOORS, WALLS AND CEILINGS, INCLUDING CEILING TILE REMOVAL AND REPLACEMENT, WHEN REQUIRED FOR PLUMBING WORK. PATCH ABANDONED OPENINGS AND DISTURBED FINISHES TO MATCH EXISTING. TAKE PRECAUTIONS TO PROTECT STRUCTURAL INTEGRITY OF FLOOR OR WALLS WHEN TRENCHING OR CUTTING.

E. MATERIALS FOR PLUMBING INSTALLATION SHALL BE NEW, UNLESS SPECIFICALLY NOTED OTHERWISE.

F. REFER TO DRAWING NO. EP402 FOR FIXTURE ROUGH-IN SCHEDULE.

G. PROVIDE THROUGH PENETRATION FIRESTOPPING FOR FIRE RATED WALLS AND FLOORS. PENETRATIONS THROUGH EXISTING WALLS AND FLOORS ARE CONSIDERED TWO-HOUR PARTITIONS UNLESS SPECIFICALLY NOTED OTHERWISE. REFER TO "A" SERIES OR CODE COMPLIANCE DRAWINGS FOR LOCATION OF FIRE RATED WALLS AND FLOORS.



Key Plan
N.T.S.

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

Rev. No.:	Date:	Description:

BEACON CITY SCHOOL DISTRICT WHERE EXCELLENCE IS THE STANDARD

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

BID SET

TETRA TECH ARCHITECTS & ENGINEERS

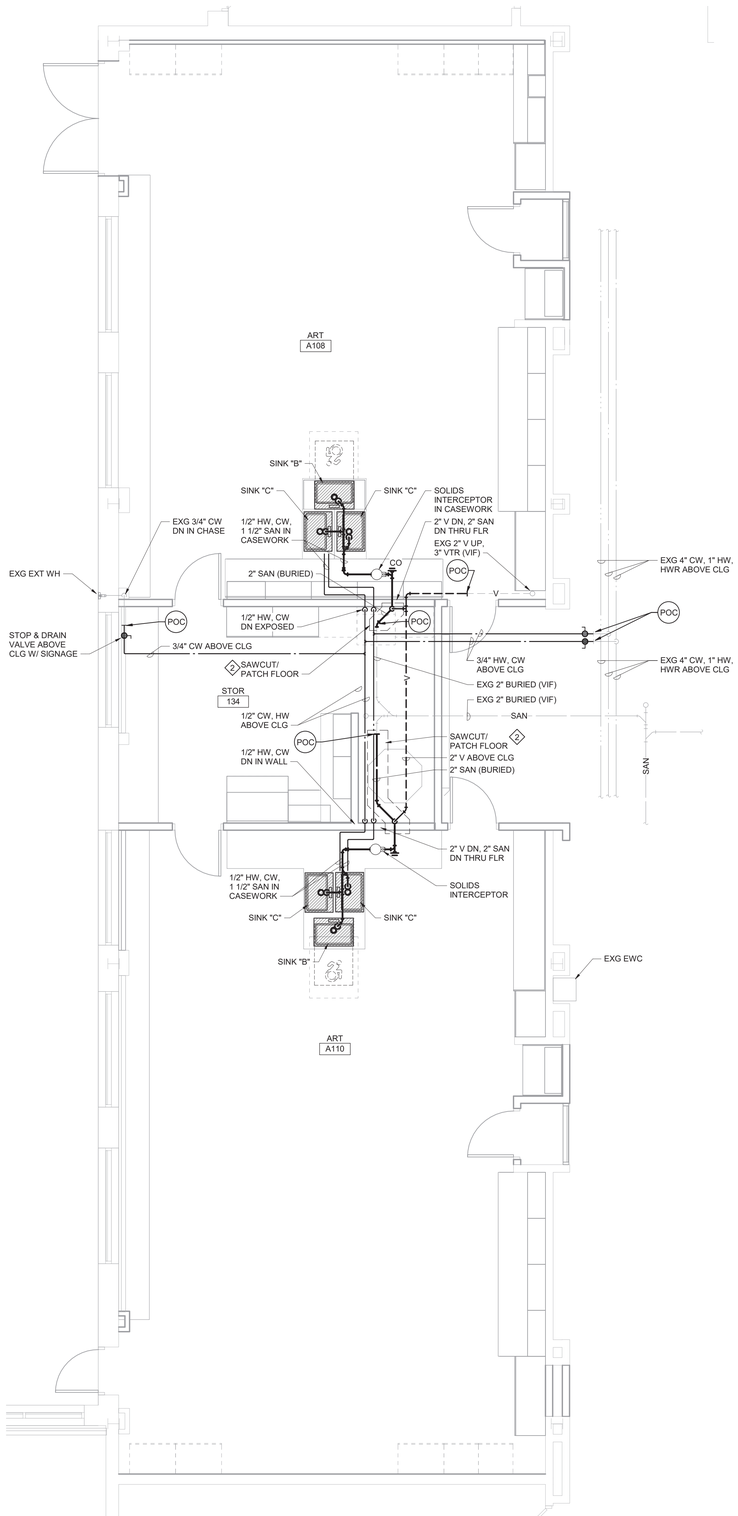
Beacon City School District
Beacon, New York

Reconstruction to:
Rombout Middle School

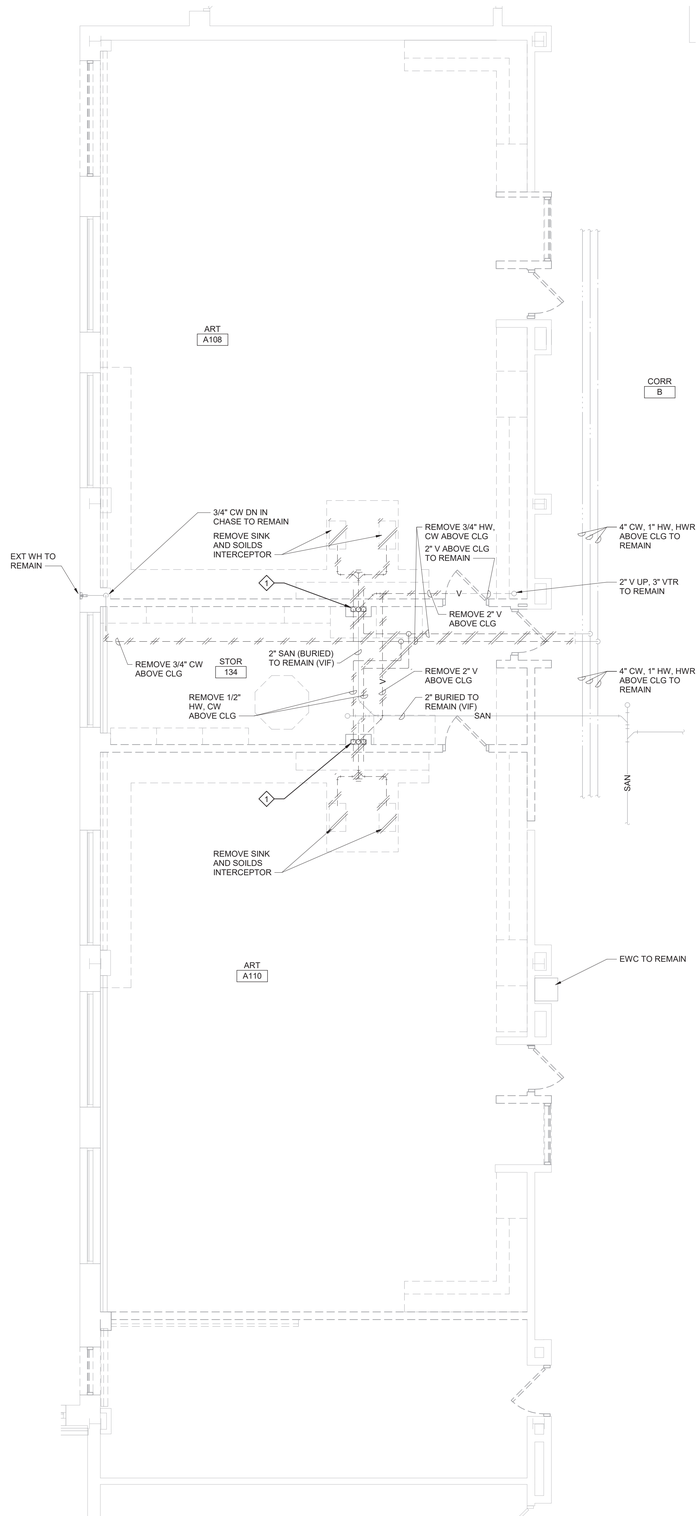
First Floor Key Plan

Drawn By:	Date:	Drawing Number:
GPD/ sef	10/28/2022	EP050

Project No.: 279180-22004



2 Art Rooms A108 and A110 Plan
1/4" = 1'-0"



1 Art Rooms A108 and A110 Demolition Plan
1/4" = 1'-0"

Plan Notes

A. REFER TO DRAWING NO. EP050 FOR GENERAL NOTES.

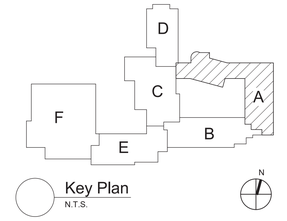
B. REMOVE PLUMBING FIXTURES INDICATED, INCLUDING ASSOCIATED PIPING, FASTENERS, SUPPORTS, ETC., BACK TO POINTS OF CONCEALMENT WITHIN OR BEHIND REMAINING WALLS, BELOW FLOORS OR ABOVE CEILINGS.

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

1 REMOVE 3/4" HOT WATER, COLD WATER, 1 1/2" VENT AND 2" SANITARY IN CHASE. PREPARE 2" SANITARY BELOW FLOOR FOR FUTURE CONNECTION.

2 REFER TO DETAILS 4/ EP402 AND 5/ EP402 FOR ADDITIONAL INFORMATION.



Key Plan
N.T.S.

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

Rev. No.:	Date:	Description:

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BID SET

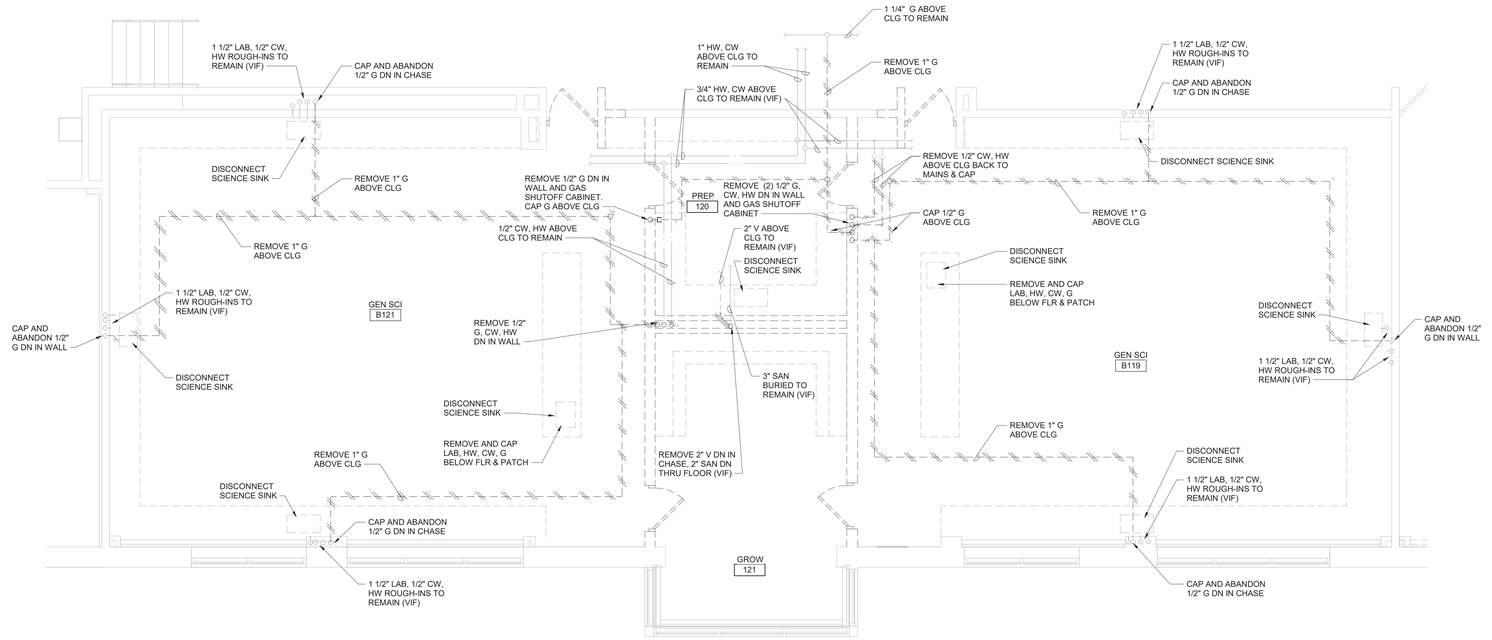
TETRA TECH
ARCHITECTS & ENGINEERS

Beacon City School District
Beacon, New York

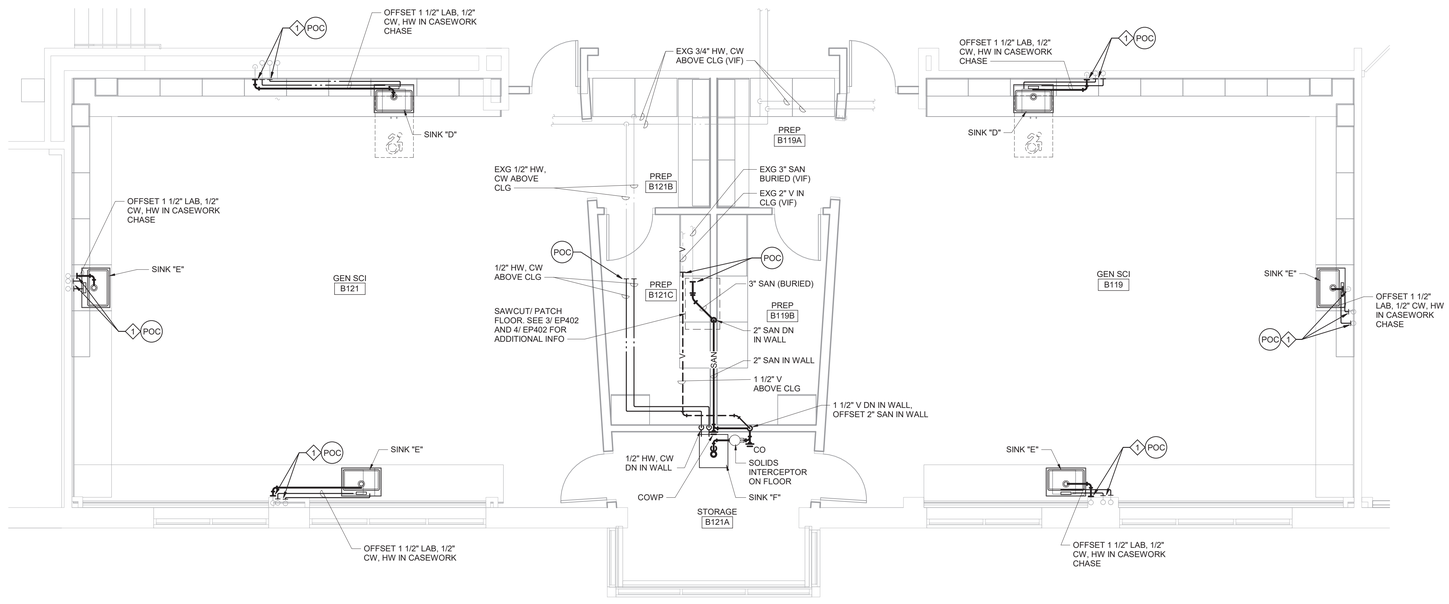
Reconstruction to:
Rombout Middle School

Enlarged Art Room Plans

Drawn By:	Date:	Drawing Number:
GPD/ sef	10/28/2022	EP400
Project No.: 279180-22004		



1 Science Rooms B119 and B121 Demolition Plan
1/4" = 1'-0"



2 Science Rooms B119 and B121 Plan
1/4" = 1'-0"

Plan Notes

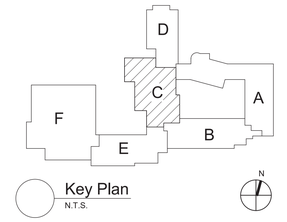
A. REFER TO DRAWING NO. EP050 FOR GENERAL NOTES.

B. DISCONNECT SCIENCE ROOM FIXTURES INDICATED, INCLUDING REMOVING 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

1. CONNECT 1 1/2" LAB WASTE, 1/2" HOT WATER AND COLD WATER TO EXISTING ROUGH-INS. VERIFY IN FIELD.



Key Plan
N.T.S.

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

Rev. No.:	Date:	Description:

BEACON CITY SCHOOL DISTRICT WHERE EXCELLENCE IS THE STANDARD

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

BID SET

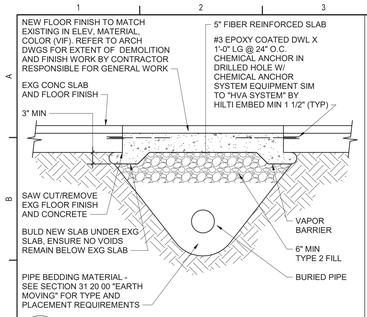
TETRA TECH ARCHITECTS & ENGINEERS

Beacon City School District
Beacon, New York

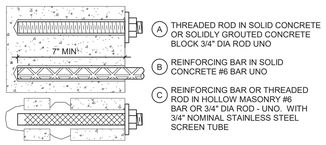
Reconstruction to:
Rombout Middle School

Enlarged Science Room Plans

Drawn By:	Date:	Drawing Number:
GPD/ sef	10/28/2022	EP401
Project No.: 279180-22004		



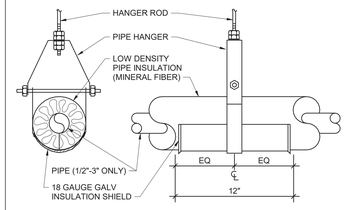
4 Trenching Below Existing Slab Detail
NTS



BAR/ROD SIZE	EMBEDMENT DEPTH
#4 OR 1/2"	5"
#5 OR 5/8"	6"
#6 OR 3/4"	7"
#7 OR 7/8"	8"
#8 OR 1"	9"

GENERAL NOTES:
1. FOR ACCEPTABLE ADHESIVE PRODUCTS REFER TO SPECIFICATIONS.
2. COMPLY WITH MANUFACTURERS REQUIREMENTS FOR INSTALLATION.

3 Typical Chemical Anchors
NTS



2 Insulation Shield Detail
NTS

Grease Interceptor Schedule

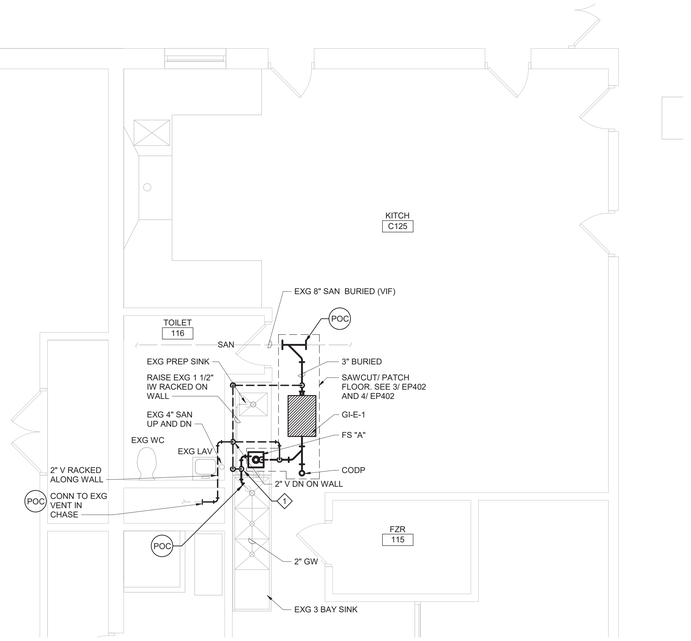
DWG LABEL	LOCATION	DESIGN MAKE AND MODEL	GREASE RETENTION CAPACITY (POUNDS)	PDI RATED FLOW RATE (GPM)	INSTALLATION	INLET / OUTLET SIZE (NPS)	CENTERLINE OF INLET / OUTLET TO BOTTOM (INCHES)	CENTERLINE OF INLET / OUTLET TO TOP (INCHES)	EXTENSION HEIGHT (INCHES)	LENGTH (INCHES)	WIDTH (INCHES)	HEIGHT (INCHES)	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:
1. PROVIDE EXTERNAL FLOW CONTROL FITTING SUPPLIED BY SAME MANUFACTERER AS GREASE INTERCEPTOR.

Plumbing Fixture Schedule

DWG LABEL	ROUGH-IN CONNECTION SIZE (INCHES)				BARRIER FREE	AGE GROUP	RIM HEIGHT	DESCRIPTION	NOTES
	SAN	VENT	CW	HW					
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

NOTES:
1. SEE SECTION 22 13 23 FOR SOLIDS INTERCEPTOR.



1 Kitchen C125 Plan
1/4" = 1'-0"

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.

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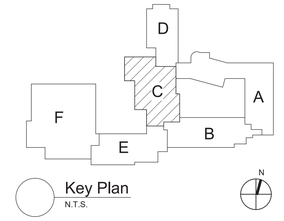
Plumbing Notes

1 FLOW CONTROL FITTING SUPPLIED BY GREASE INTERCEPTOR MANUFACTURER.



Key Plan
N.T.S.

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

Rev. No.:	Date:	Description:

BEACON CITY SCHOOL DISTRICT WHERE EXCELLENCE IS THE STANDARD

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BID SET

TETRA TECH ARCHITECTS & ENGINEERS

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	EP402
Project No.: 279180-22004		