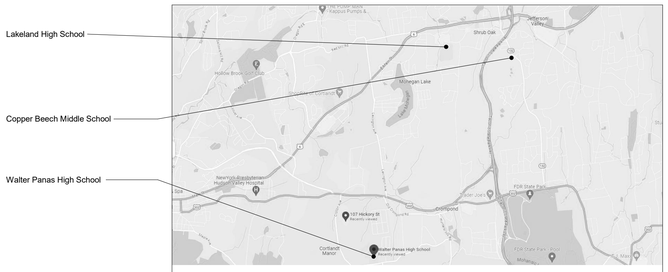
Reconstruction To:

Walter Panas High School
Lakeland High School
Lakeland Copper Beech Middle School

SED Control No. 66-24-01-06-0-015-026
SED Control No. 66-24-01-06-0-011-023
SED Control No. 66-24-01-06-0-012-025



Project Location Map

Lakeland Central School District
Shrub Oak, New York

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Lakeland Copper Beech Middle School

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DG350 Code Compliance Review and Vintage Key Plan
DG351 Code Compliance First and Second Floor Key Plan

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CIVIL
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Lakeland Copper Beech Middle School

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Lakeland Copper Beech Middle School

PLUMBING
DP050 First Floor Key Plan and Details
DP400 Enlarged Science and Family and Consumer Science Demolition Plans
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Drawn By:	Date:	Drawing Number:
Author	10/13/2023	AA130
Project No.:		
276721-23001		

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.

The engineer that has signed this document certifies that to the best of their knowledge, information and belief, the asbestos plans and specifications are in accordance with applicable requirements of the New York State Uniform Fire Prevention and Building Code, Construction Standards of the Commissioner of Education, New York State Department of Labor Part 56 of Title 12, and the United States Environmental Protection Agency Hazard Emergency Response ACT Regulations. Robert S. Masone is accredited to the EPA and New York State under AHERA Regulations as an Asbestos Project Designer (Asbestos Handling Certificate Number 92-17140)

To the best of the Architect's knowledge, information and belief, the design of this project conforms to all applicable provisions of the New York State Uniform Fire Prevention and Building Code, the New York State Energy Conservation Code, and the building standards of the New York State Education Department.

BID SET

Volume 2 of 2

276721-23001
10/13/2023

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
- SW1 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 PREVENTER
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
$	LIGHT SWITCH (LOW VOLTAGE)
TC	TIME CLOCK
OS	OCCUPANCY SENSOR
VS	VACANCY SENSOR
PC	PHOTO CELL
LC	LIGHTING CONTROL
F	FIRE ALARM MANUAL PULL STATION
S	FIRE ALARM STROBE LIGHT
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
CM	CARBON MONOXIDE DETECTOR
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
	FLOOR TELEPHONE OUTLET
	INTERCOM CALL SWITCH
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
DB	SECURITY DURESS BUTTON
	EXISTING PANEL TO REMAIN
	EXISTING PANEL TO REPLACE
	NEW PANEL
SPD	SURGE PROTECTION DEVICE
	MOTOR
LABEL #	NEW MOTOR SEE SCHEDULE FOR DESCRIPTION
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 COMMUNICATIONS
C	OVERHEAD COMMUNICATIONS

Symbol Tags

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

TYPICAL FOR ALL ELEC SYMBOLS

AC = ABOVE CEILING
AUX = AUXILIARY 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. 66-24-01-06-0-015-026
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Rev. No.:	Date:	Description:

A	
A/S	AIR SEPARATOR
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)
ASB	ASBESTOS
ASPH	ASPHALT
ATV	ATMOSPHERIC VENT
AUD	AUDITORIUM
AUTO	AUTOMATIC
AVE	AVERAGE
B	
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	
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	CONTINUOUS
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	
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
DS	DOWNSPOUT, DRAINAGE STRUCTURE
DT	DRAIN TILE
DTA	DOVETAIL ANCHOR
DTL	DETAIL
DTR	DUAL TEMPERATURE RETURN
DTS	DUAL TEMPERATURE SUPPLY
DW	DUMBWAITER, DISHWASHER
DWG	DRAWING
DWL	DOWEL
DWR	DRAWER
E	
E	EAST
EA	EXHAUST AIR, EACH
EAT	ENTERING AIR TEMPERATURE
EB	EXPANSION BOLT
EC	ELECTRICAL CONTRACTOR
ECF	ENHANCED CONCRETE FLOORING
EF	EACH FACE, EXHAUST FAN
EIFS	EXTERIOR INSULATION SYSTEM
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
EXG	EXISTING
EXH	EXHAUST
EXP	EXPANSION
EXT	EXTERIOR, EXTERNAL
F	
F	FAHRENHEIT
FA	FIRE ALARM
FAI	FRESH AIR INTAKE
FCU	FAN COOLING UNIT
FD	FLOOR DRAIN, FIRE DAMPER
FDC	FDCFIRE 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	
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
GL	GLASS, GLAZING
GND	GROUND
GPM	GALLONS PER MINUTE
GR	GRADE (ING), GLYCOL RETURN
GS	GLYCOL SUPPLY
GVL	GRAVEL
GWB	GYPSUM WALL BOARD
GYP	GYPSUM
H	
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
HPC	HIGH PERFORMANCE COATING
HPL	HIGH PRESSURE LAMINATE
HPR	HEAT PUMP LOOP WATER RETURN
HPS	HEAT PUMP LOOP WATER SUPPLY
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
I	
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	
J	JANITORS CLOSET
JAN	JANITORS CLOSET
JB	JUNCTION BOX
JC	JANITORS CLOSET
JCT	JUNCTION
JT	JOINT
K	
KV	KILOVOLT
KVA	KILOVOLT AMPERE
KW	KILOWATT
KWH	KILOWATT PER HOUR
L	
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
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	LABORATORY VENT, LOW VOLTAGE
LVR	LOUVER
LW	LABORATORY WASTE
LWT	LEAVING WATER TEMPERATURE
M	
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
MF	MIXING FAUCET
MFR	MANUFACTURE (R)
MH	MAN HOLE
MIN	MINIMUM
MIR	MIRROR
MISC	MISCELLANEOUS
MO	MASONRY OPENING
MOD	MODULE (OR), MODEL
MP	MULTICOLOR WALL COATING
MR	MOP RECEPTOR
MT	MOUNT
MTD	MOUNTED
MTG	MOUNTING
MTH	MARBLE THRESHOLD
MTL	METAL
MTR	METER
MULL	MULLION
MVEJ	MASONRY VENEER EXPANSION JOINT
N	
N	NORTH
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
O	
OA	OVERALL, OUTSIDE AIR
OC	ON CENTER
OD	OUTSIDE DIAMETER
OH	OVERHEAD
OPNG	OPENING
OPP	OPPOSITE
OPP HD	OPPOSITE HAND
P	
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
Q	
QF	QUARTZ FLOORING
QT	QUARRY TILE
R	
R	RADIUS, RETURN, REFRIGERANT
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	
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	SUSPSUSPENDED
SV	SHEET VINYL, STEAM VENT
SW	SWITCH, SOFTENED WATER
SWCI	SERVICE WEIGHT CAST IRON
SYM	SYMMETRICAL
SYN	SYNTHETIC
SYS	SYSTEM
T	
T	TREAD, TOP, TOILET ROOM, TONS, TERRAZZO
TB	TOP AND BOTTOM, TACK BOARD, TERRAZZO BASE
TBD	TO BE DETERMINED
TC	TEMPERATURE CONTROL, TEMPERED CLEAR, TELECOMMUNICATION 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
U	
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	
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	
W	WEST, WIDTH, WIDE, WASTE, WATT
W/	WITH
W/O	WITHOUT
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
WWR	WELDED WIRE REINFORCEMENT
X	
XHCI	EXTRA HEAVY CAST IRON
Y	
YD	YARD DRAIN, YARD

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BID SET

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

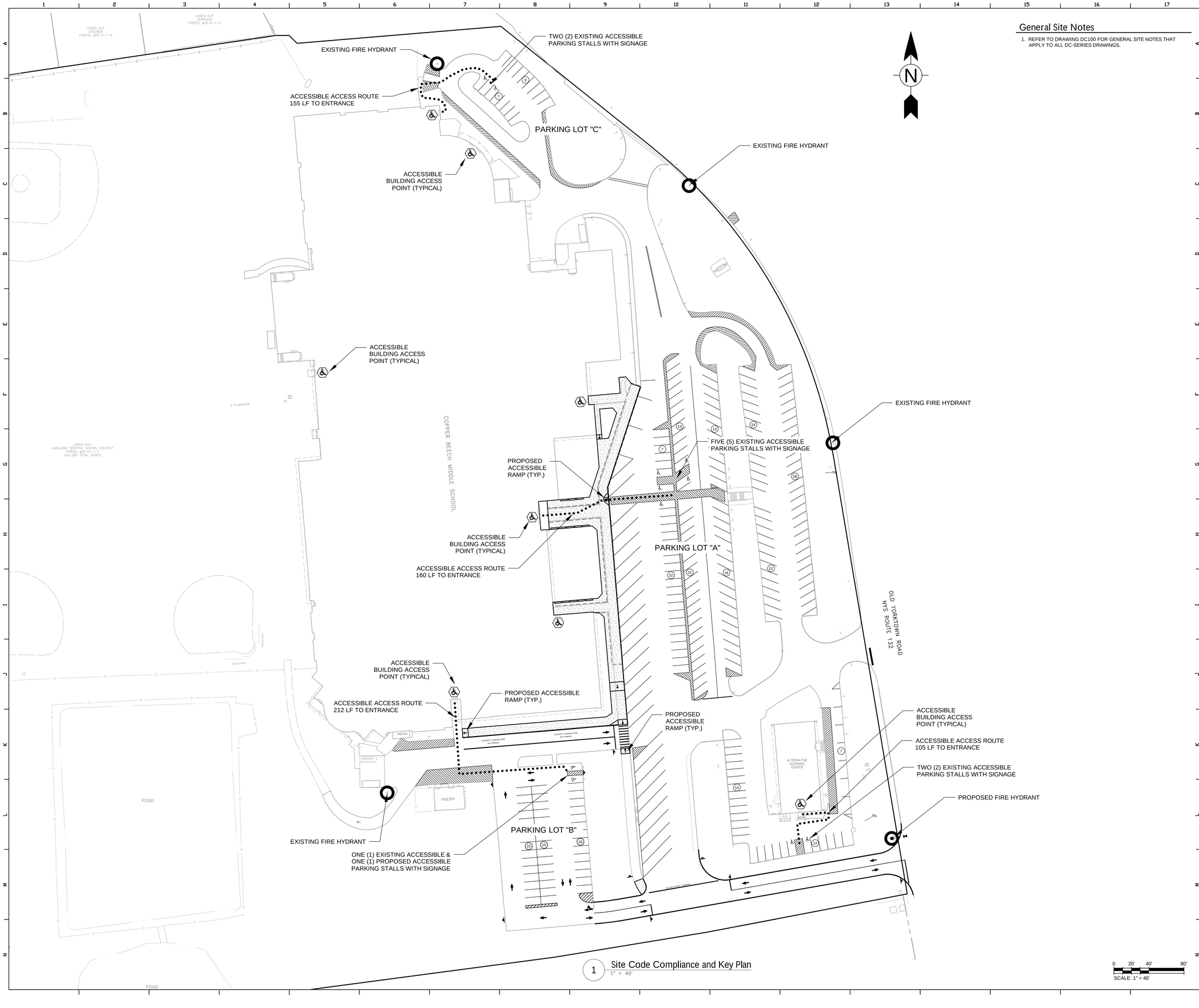
TETRA TECH
ARCHITECTS & ENGINEERS

Lakeland Central School District
Shrub Oak, New York

Reconstruction To:
Walter Panas High School,
Lakeland High School,
Lakeland Copper Beech Middle School

Symbols and Abbreviations

Drawn By:	Date:	Drawing Number:
	10/13/2023	G100
Project No.: 276721-23001		



1 Site Code Compliance and Key Plan
1" = 40'

0 20' 40' 80'
SCALE: 1" = 40'

General Site Notes

1. REFER TO DRAWING DC100 FOR GENERAL SITE NOTES THAT APPLY TO ALL DC-SERIES DRAWINGS.

ADA Site Notes

1. THE MAXIMUM SLOPE OF ACCESSIBLE PARKING STALLS AND ASSOCIATED ACCESS AISLE SHALL BE 2% (1V:50H).
2. THE MAXIMUM SLOPE IN THE DIRECTION OF TRAVEL ON ACCESSIBLE PATHS SHALL BE 5% (1V:20H).
3. THE MAXIMUM CROSS SLOPE ON ACCESSIBLE PATHS SHALL BE 2% (1V:50H).
4. THE MAXIMUM SLOPE IN THE DIRECTION OF TRAVEL ON ACCESSIBLE RAMPS AND CURB RAMPS SHALL BE 8.33% (1V:12H), AS INDICATED ON THE DETAILS.
5. GROUND SURFACES ON ACCESSIBLE PATHS SHALL BE STABLE, FIRM, AND SLIP RESISTANT.

IBC Table 1106.1 Accessible Parking Spaces

Parking Lot "A"

* TOTAL NUMBER OF EXISTING AND PROPOSED PARKING SPACES= 181
* NUMBER OF ACCESSIBLE PARKING SPACES REQUIRED = 6
* TOTAL NUMBER OF EXISTING AND PROPOSED ACCESSIBLE PARKING SPACES = 7

TOTAL PARKING SPACES PROVIDED IN PARKING FACILITY	REQUIRED MINIMUM NUMBER OF ACCESSIBLE SPACES
1 TO 25	1
26 TO 50	2
51 TO 75	3
76 TO 100	4
101 TO 150	5
151 TO 200	6
201 TO 300	7
301 TO 400	8
401 TO 500	9
501 TO 1,000	2% OF TOTAL
OVER 1,000	20 PLUS 1 FOR EACH 100 OVER 1,000

NOTE: PARKING SPACES USED EXCLUSIVELY FOR BUSES, TRUCKS AND OTHER DELIVERY VEHICLES, AND LAW ENFORCEMENT VEHICLES ARE EXEMPT FROM IBC TABLE 1106.1.

IBC Table 1106.1 Accessible Parking Spaces

Parking Lot "B"

* TOTAL NUMBER OF EXISTING AND PROPOSED PARKING SPACES= 46
* NUMBER OF ACCESSIBLE PARKING SPACES REQUIRED = 2
* TOTAL NUMBER OF EXISTING AND PROPOSED ACCESSIBLE PARKING SPACES = 2

TOTAL PARKING SPACES PROVIDED IN PARKING FACILITY	REQUIRED MINIMUM NUMBER OF ACCESSIBLE SPACES
1 TO 25	1
26 TO 50	2
51 TO 75	3
76 TO 100	4
101 TO 150	5
151 TO 200	6
201 TO 300	7
301 TO 400	8
401 TO 500	9
501 TO 1,000	2% OF TOTAL
OVER 1,000	20 PLUS 1 FOR EACH 100 OVER 1,000

NOTE: PARKING SPACES USED EXCLUSIVELY FOR BUSES, TRUCKS AND OTHER DELIVERY VEHICLES, AND LAW ENFORCEMENT VEHICLES ARE EXEMPT FROM IBC TABLE 1106.1.

IBC Table 1106.1 Accessible Parking Spaces

Parking Lot "C"

* TOTAL NUMBER OF EXISTING AND PROPOSED PARKING SPACES= 16
* NUMBER OF ACCESSIBLE PARKING SPACES REQUIRED = 1
* TOTAL NUMBER OF EXISTING AND PROPOSED ACCESSIBLE PARKING SPACES = 2

TOTAL PARKING SPACES PROVIDED IN PARKING FACILITY	REQUIRED MINIMUM NUMBER OF ACCESSIBLE SPACES
1 TO 25	1
26 TO 50	2
51 TO 75	3
76 TO 100	4
101 TO 150	5
151 TO 200	6
201 TO 300	7
301 TO 400	8
401 TO 500	9
501 TO 1,000	2% OF TOTAL
OVER 1,000	20 PLUS 1 FOR EACH 100 OVER 1,000

NOTE: PARKING SPACES USED EXCLUSIVELY FOR BUSES, TRUCKS AND OTHER DELIVERY VEHICLES, AND LAW ENFORCEMENT VEHICLES ARE EXEMPT FROM IBC TABLE 1106.1.

Site Accessible Legend

	ACCESSIBLE BUILDING ENTRY/EXIT
	ACCESSIBLE ROUTE

Legend

(34)	NUMBER OF ADJACENT PARKING STALLS

S.E.D. Control No. 66-24-01-06-0-012-025

Rev. No.:	Date:	Description:
1	7/22/2024	REVISED FOR ALTERNATE CB-03 AND CB-04

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

BID SET

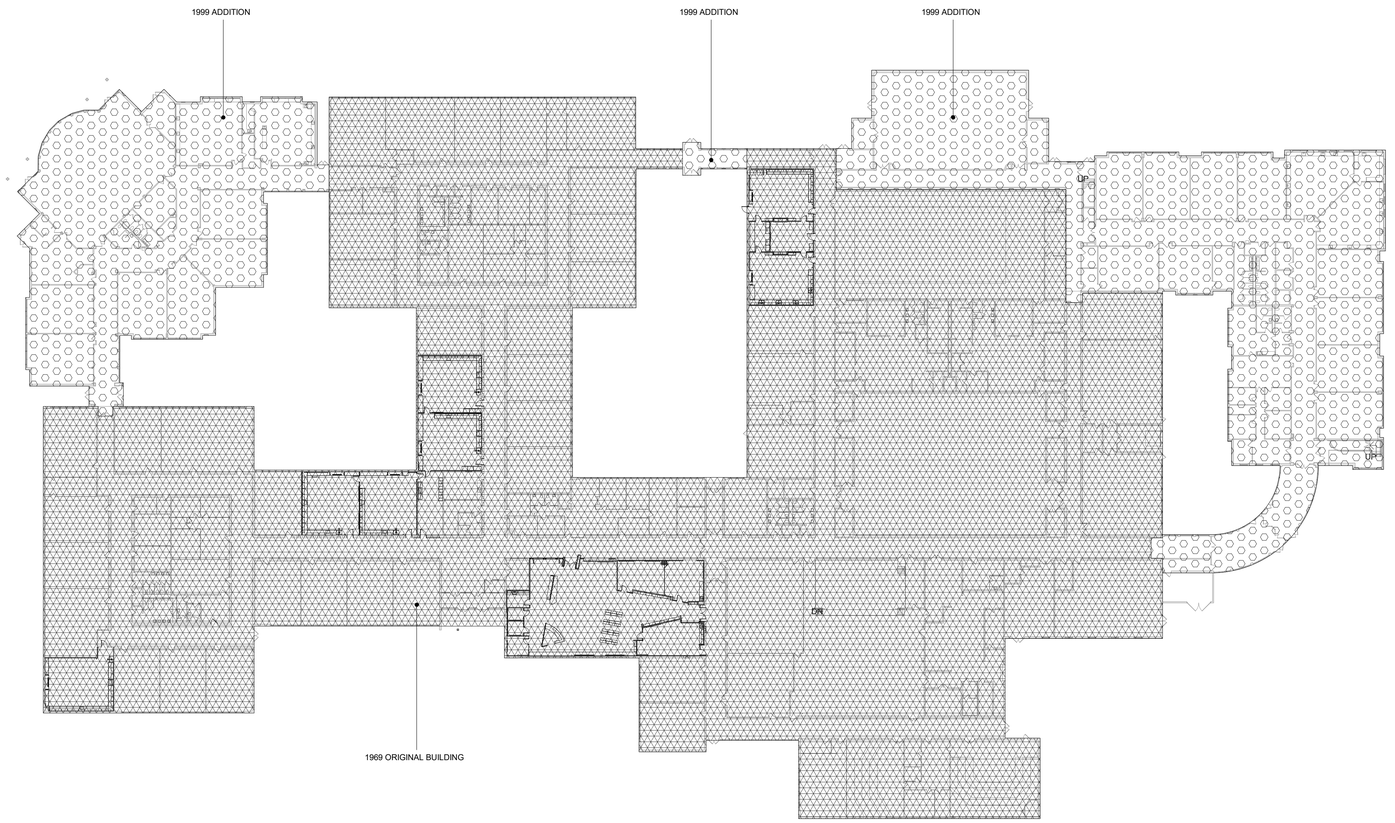
TETRA TECH
ARCHITECTS & ENGINEERS

Lakeland Central School District
Shrub Oak, New York

Reconstruction to:
Lakeland Copper Beech Middle School

Site Code Compliance and Key Plan

Drawn by:	Date:	Drawing No.:
J.L.P.	10/13/2023	DG300
Project No.: 276721-23001		



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

Code Compliance Review

PROJECT LOCATION:
3401 OLD YORKTOWN RD, ROUTE 132, YORKTOWN, NEW YORK 10598
BOUNDED BY TACONIC STATE PARKWAY TO THE WEST, WESTMINSTER ROAD TO THE SOUTH, AND ROUTE 132 (OLD YORKTOWN ROAD) TO THE EAST.

PROJECT DESCRIPTION:
THIS PROJECT INCLUDES RENOVATION OF APPROXIMATELY 13,060 SF OF SPACE ON THE FIRST FLOOR.

WORK GENERALLY CONSISTS OF THE FOLLOWING:
ALTERATIONS - LEVEL 1
- REPLACEMENT OF STANDBY GENERATOR

ALTERATIONS - LEVEL 2
- LIBRARY/MEDIA CENTER RENOVATION
- RECONSTRUCTION OF 6TH AND 7TH GRADE SCIENCE ROOMS
- RECONSTRUCTION OF FAMILY AND CONSUMER SCIENCE ROOMS
- ELECTRICAL CIRCUIT UPGRADE FOR STANDBY GENERATOR

APPLICABLE CODES AND STANDARDS:

BASED ON THE SED MANUAL OF PLANNING STANDARDS 2022, 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: COPPER BEECH MIDDLE SCHOOL
3401 OLD YORKTOWN RD, ROUTE 132
YORKTOWN, NY 10598

DESCRIPTION: TWO STORY MASONRY AND REINFORCED CONCRETE BUILDING.

YEAR BUILT: 1969 (FUDGE & UNDERHILL ARCHITECTS & ENGINEERS)
ADDITION: 1999 (KG&D ARCHITECTS)

BUILDING AREA: 1ST FLOOR 174,180 SQFT
2ND FLOOR 20,500 SQFT

TOTAL GROSS AREA= 194,680 SQFT

CODE DATA SUMMARY:

BUILDINGS ARE BELIEVED TO HAVE BEEN CONSTRUCTED AND SUBSEQUENT ALTERATIONS MADE IN COMPLIANCE WITH CODES IN EXISTENCE AT THAT TIME.

USE GROUP: E : EDUCATION

CONSTRUCTION TYPE -

EXISTING: IIB

FIRE SAFETY: AN AUTOMATIC SPRINKLER SYSTEM IS NOT PROVIDED.

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

WORK AREA:

LOCATION	AREA	% OF TOTAL
1ST FLOOR	13,060 SQFT	7.5%
2ND FLOOR	0 SQFT	0%

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 DG300.

EXIT TRAVEL DISTANCE (PER TABLE 1017.2):
FOR EXIT TRAVEL DISTANCE - SEE DG351.

STAIR AND OTHER EXIT WIDTH CALCULATIONS (PER 1005.3.1 AND 1005.3.2):
FOR EXIT TRAVEL DISTANCE - SEE DG351.

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.

INTERIOR FINISH REQUIREMENTS:

ALL FINISHES IN CORRIDORS AND ASSEMBLY SPACES SHALL HAVE A FIRE HAZARD CLASSIFICATION PER MANUAL OF PLANNING STANDARDS SECTION S203-1 a. AND b.

RESCUE LABEL / SIGNAGE NOTES:

1. REFER TO PLANS FOR RESCUE WINDOW LOCATIONS.
2. REFER TO SIGNAGE SPECIFICATION AND SIGNAGE DRAWINGS FOR TYPES AND LOCATIONS.

PROVIDE MAX OCCUPANCY SIGNS FOR THE FOLLOWING:

ROOM NAME	OCCUPANCY
LIBRARY	250

SIGNAGE FOR BAR JOIST

REFER TO SPECIFICATION SECTION 10 14 00 AND SIGNAGE DRAWINGS FOR TYPES AND LOCATIONS.

UL DESIGN NUMBERS:

BEAMS	UL# S721
BAR JOISTS	UL# D902
1 HR. STUD PARTITIONS	UL# U465
1 HR. BLOCK PARTITIONS	UL# U905

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

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

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 DG351 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 DG351 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.

G. AT AREAS OF PROJECT WORK IN CORRIDORS COMPLETELY SEAL ALL NEW PENETRATIONS AND PENETRATIONS FROM DEMOLITION WORK TO COMPLY WITH FIRE RESISTANCE RATINGS OF 1 HOUR, AND IN STAIRS, ELECTRICAL ROOMS, MECHANICAL ROOMS AND BOILER ROOM WALLS TO COMPLY WITH FIRE RESISTANCE RATINGS OF 2 HOURS, REGARDLESS IF WALL IS NEW OR EXISTING, TYPICAL UNLESS NOTED OTHERWISE.

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.

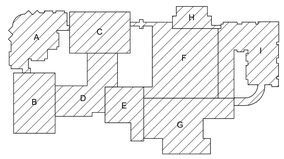
C. REFER INCONSISTENCIES TO ARCHITECT PRIOR TO COMMENCING THE WORK IN AFFECTED AREA.

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.

G. DIMENSIONS ARE FROM FACE OF MASONRY, FROM FACE OF METAL FRAMING OR FROM FACE OF EXISTING CONSTRUCTION. TYP UNO. MASONRY DIMENSIONS ARE NOMINAL.



Key Plan
N.T.S.

N

S.E.D. Control No. 66-24-01-06-0-012-025

Rev. No.:	Date:	Description:

complex world | CLEAR SOLUTIONS

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

BID SET

TETRA TECH
ARCHITECTS & ENGINEERS

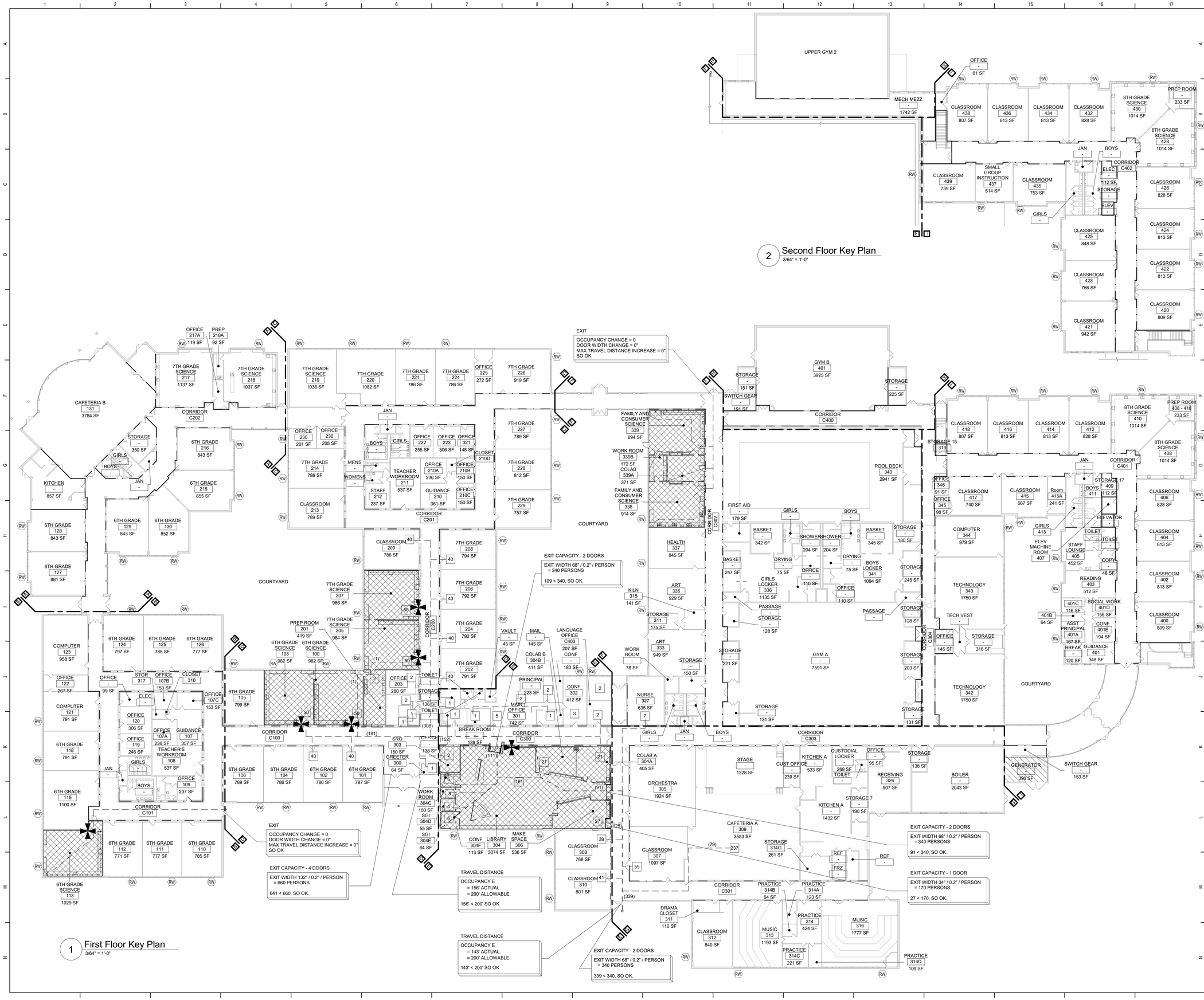
Lakeland Central School District
Shrub Oak, New York

Reconstruction to:
Lakeland Copper Beech Middle School

Code Compliance Review and Vintage Key Plan

Drawn By:	Date:	Drawing Number:
TLG	10/13/2023	DG350

Project No.:
276721-23001



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 DG351 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 DG351 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.

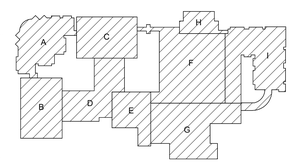
F. ALL CMU CONSTRUCTION SHALL MEET FIRE RESISTANCE REQUIREMENTS INDICATED. PROVIDED BLOCK TYPE AS REQUIRED TO COMPLY WITH UL DESIGN NUMBERS AND WALL RATINGS INDICATED, REGARDLESS IF NOTED AS SUCH ON PLAN DETAILS.

G. AT AREAS OF PROJECT WORK IN CORRIDORS COMPLETELY SEAL ALL NEW PENETRATIONS AND PENETRATIONS FROM DEMOLITION WORK TO COMPLY WITH FIRE RESISTANCE RATINGS OF 1 HOUR, AND IN STAIRS, ELECTRICAL ROOMS, MECHANICAL ROOMS AND BOILER ROOM WALLS TO COMPLY WITH FIRE RESISTANCE RATINGS OF 2 HOURS, REGARDLESS IF WALL IS NEW OR EXISTING, TYPICAL UNLESS NOTED OTHERWISE.

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
- RW — RESCUE WINDOW
- ALTERATION LEVEL 1 WORK AREA
- ALTERATION LEVEL 2 WORK AREA



Key Plan
N.T.S.

S.E.D. Control No. 66-24-01-06-0-012-025

Rev. No.:	Date:	Description:

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BID SET

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

TETRA TECH
ARCHITECTS & ENGINEERS

Lakeland Central School District
Shrub Oak, New York

Reconstruction to:
Lakeland Copper Beech Middle School

Code Compliance First and Second Floor Key Plan

Drawn By:	Date:	Drawing Number:
TLG	10/13/2023	DG351
Project No.: 276721-23001		

ASBESTOS ABATEMENT
GENERAL NOTES

GENERAL NOTES:

1. ALL ASBESTOS REMOVAL SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL LAW, GUIDELINES, REGULATIONS, ORDERS AND DIRECTIVES, INCLUDING WITHOUT LIMITATIONS, THE U.S. ENVIRONMENTAL PROTECTION AGENCY (EPA), AND U.S. DEPARTMENT OF LABOR, OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA), NATIONAL INSTITUTE OF OCCUPATIONAL SAFETY AND HEALTH (NIOSH), AND NEW YOK STATE DEPARTMENT OF LABOR (NYSDOL).

2. CONTRACTOR SHALL FURNISH ALL LABOR, MATERIAL, EQUIPMENT, SERVICES, ETC., NECESSARY TO PERFORM THE WORK REQUIRED FOR ASBESTOS ABATEMENT IN ACCORDANCE WITH CONTRACT DOCUMENTS AND ALL APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS.

3. CONTRACTOR SHALL DEVELOP AND IMPLEMENT A WRITTEN STANDARD PROCEDURE FOR ABATEMENT WORK TO ENSURE MAXIMUM PROTECTION AND SAFEGUARD FROM ASBESTOS EXPOSURE OF THE WORKERS, VISITORS, EMPLOYEES, GENERAL PUBLIC, AND THE ENVIRONMENT.

4. CONTRACTOR SHALL PROVIDE SIGNS, LABELS, WARNINGS, AND POST INSTRUCTIONS THAT ARE NECESSARY TO PROTECT, INFORM AND WARN PEOPLE OF THE HAZARD FROM ASBESTOS EXPOSURE. POST IN A PROMINENT AND CONVENIENT PLACE FOR THE WORKERS A COPY OF THE LATEST APPLICABLE REGULATIONS FROM OSHA, EPA, NIOSH AND NYSDOL.

5. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE SPECIFICATION.

6. THE CONTRACTOR SHALL RELOCATE ALL FURNITURE, LOCKERS, DESKS AND OTHER MISC. ITEMS IN AND OUT OF THE WORK AREAS TO ACCOMODATE ASBESTOS ACTIVITIES, IF THE SCHOOL DOES NOT PROVIDE.

7. THE CONTRACTOR SHALL PROVIDE ALL ELECTRICAL, WATER, AND WASTE CONNECTIONS, TIE–INS, EXTENSIONS, CONSTRUCTION MATERIALS, SUPPLIES, ETC. AS REQUIRED TO FACILITATE ASBESTOS REMOVAL, IF THE SCHOOL DOES NOT PROVIDE.

8. CONTRACTOR SHALL PROVIDE TEMPORARY ELECTRIC AND LIGHT THROUGHOUT THE WORK AREA(S) AS REQUIRED IN ACCORDANCE WITH ALL APPLICABLE REGULATIONS AND CODES.

9. CONTRACTOR SHALL PROPERLY PROTECT ALL CONTROLS, TUBING, ELECTRICAL PANELS, EQUIPMENT, ETC. WITHIN THE WORK AREA.

10. THE CONTRACTOR SHALL BE REQUIRED TO ISSUE NON–WHITE WORK COVERALLS FOR ALL ABATEMENT WORKERS.

11. CONTRACTOR SHALL EXERCISE EXTREME CARE AND CAUTION DURING ANY AND ALL DEMOLITION AND ABATEMENT OPERATIONS. CONTRACTOR SHALL CONDUCT REMOVAL OF ALL MATERIALS FROM THE SITE WITH MINIMUM DISTURBANCE; PROVIDE PROPER PROTECTION AND REGULAR MAINTENANCE OF ALL BUILDING PREMISES DIRECTLY OR INDIRECTLY ASSOCIATED WITH ABATEMENT OPERATIONS.

12. THE CONTRACTOR SHALL USE A WATER SPRAYER TO WET ASBESTOS CONTAINING MATERIALS INSIDE THE WORK AREA.

13. CONTRACTOR SHALL CONSTRUCT A PERSONAL/WASTE DECONTAMINATION ENCLOSURE SYSTEM (P./W.D.E.S.) AS INDICATED. IT SHALL BE OF SUFFICIENT SIZE TO ACCOMMODATE STORAGE OF MATERIALS, EQUIPMENT, ETC.

14. IF WATER IS NOT AVAILABLE, THE CONTRACTOR SHALL PROVIDE A 55 GALLON WATER TANK FOR THE DECONTAMINATION UNIT.

15. THE CONTRACTOR SHALL UTILIZE GFCI PANEL CONNECTIONS AT THE SOURCE OUTLET WHEN ACCESSING TEMPORARY POWER.

16. THE CONTRACTOR SHALL VERIFY THE LOCATION OF THE TEMPORARY WATER AND POWER SOURCES PRIOR TO ABATEMENT ACTIVITIES.

17. DEBRIS RESULTING FROM ANY DEMOLITION AND/OR ASBESTOS ABATEMENT ACTIVITIES SHALL BE DISPOSED OF AS ASBESTOS CONTAMINATED WASTE.

18. NO WASTE SHALL BE STORED ON SITE OR INSIDE THE DECONTAMINATION UNIT BETWEEN SHIFTS. WASTE SHALL BE DOUBLE BAGGED BEFORE PROCEEDING TO THE CONTAINER AND/OR DECON. BAGS WILL BE MOVED FROM WORK AREAS TO THE WASTE DECON AND SUBSEQUENTLY TO THE CONTAINER IN COVERED CARTS. BAGS WILL BE CARRIED BY HAND ONLY WHEN NECESSARY. ALL WASTE SHALL BE CONTAINERIZED AT THE END OF EACH WORK SHIFT BEFORE RELINQUISHING TO WASTE HAULER.

19. CONTRACTOR IS RESPONSIBLE TO COORDINATE AND CONFIRM THE EXACT SCOPE OF WORK, AND QUANTITY FOR EACH PHASE OF ABATEMENT WITH THE GENERAL CONTRACTOR AND OTHER TRADES.

20. CONTRACTOR SHALL PROVIDE ALL EQUIPMENT, TOOLS, TRANSPORTATION AND ANY OTHER EQUIPMENT REQUIRED AND/OR NECESSARY TO COMPLETE ALL WORK DESCRIBED IN THE CONTRACT DOCUMENTS.

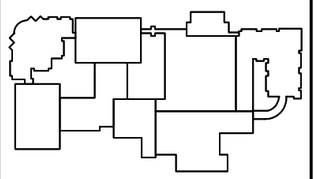
DRAWING	DRAWING NAME
H-001.00	ASBESTOS ABATEMENT - GENERAL NOTES
H-002.00	ASBESTOS ABATEMENT - FIRST FLOOR - AREA F PLAN
H-003.00	ASBESTOS ABATEMENT - FIRST FLOOR - AREA E PLAN
H-004.00	ASBESTOS ABATEMENT - FIRST FLOOR - AREA D PLAN
H-005.00	ASBESTOS ABATEMENT - FIRST FLOOR - AREA B PLAN

STATE OF NEW YORK
ROBERT SCOTT MASONE
084951
LICENSED PROFESSIONAL ENGINEER

DESIGNER: ROBERT S. MASONE, P.E. LIC. # 084951

KEY PLAN

Key Plan
Copper Beech Middle School



ENVIRONMENTAL CONSULTANT

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One North Broadway, Suite 910
White Plains, NY 10601
T: 914.323.7400 F: 914.323.7401 www.langan.com

REVISIONS:

NUMBER	DESCRIPTION	DATE
1		
2		
3		
4		

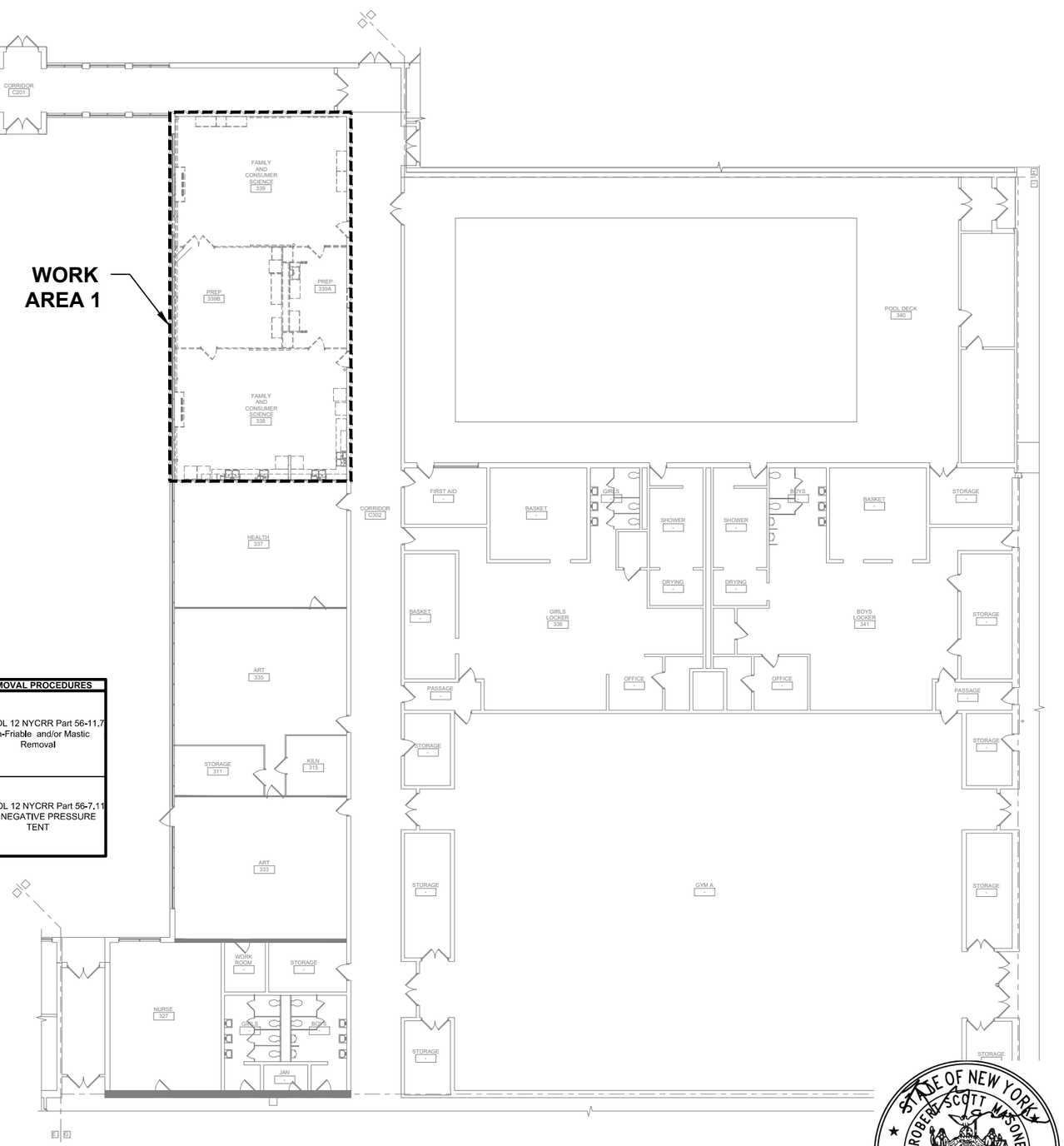
COPPER BEACH
MIDDLE SCHOOL
3401 OLD YORKTOWN ROAD
YORKTOWN HEIGHTS, NY 10588

DRAWING TITLE:
ASBESTOS ABATEMENT
GENERAL NOTES

DRAWN BY:	A. COFRANCESCO	SCALE:	NOT TO SCALE
PROJ. DESIGNER:	R. MASONE	DATE:	09/29/2023
CHECKED BY:	C. NAPOLITANO	DRAWING NUMBER:	H-001.00

DRAWING NUMBER: 1 of 5

CONSULTANTS PROJECT #: 101061222



LEGEND

WORK AREA BOUNDARY

WORK AREA	LOCATION	ASBESTOS-CONTAINING MATERIAL	APPROXIMATE QUANTITY	REMOVAL PROCEDURES
1	Family and Consumer Science Rooms 338, 339, 339A and 339B	9"x9" Floor Tile & Mastic	+/- 2325 square feet	NYSDOL 12 NYCRR Part 56-11.7 Non-Friable and/or Mastic Removal
		Sink Undercoating	+/- 66 square feet (8 Sinks)	
		Drain Bowl Insulation-White (Above Ceiling Tiles)	+/-10 square feet (or as per the final scope of work)	NYSDOL 12 NYCRR Part 56-7.11 (1)(i) NEGATIVE PRESSURE TENT
		Associated Pipe Fittings (Above Ceiling Tiles)	+/- 90 Linear Feet (or as per the final scope of work)	

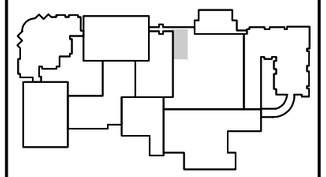
1 FIRST FLOOR - AREA F PLAN
SCALE: NTS

STATE OF NEW YORK
ROBERT SCOTT MASONE
084951
LICENSED PROFESSIONAL ENGINEER

DESIGNER: ROBERT S. MASONE, P.E. LIC. # 084951

KEY PLAN

Key Plan
Copper Beech Middle School



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REVISIONS:

NUMBER	DESCRIPTION	DATE
1		
2		
3		
4		

COPPER BEACH MIDDLE SCHOOL
3401 OLD YORKTOWN ROAD
YORKTOWN HEIGHTS, NY 10588

DRAWING TITLE:
ASBESTOS ABATEMENT FIRST FLOOR - AREA F PLAN

DRAWN BY:	A. COFRANCESCO	SCALE:	NOT TO SCALE
PROJ. DESIGNER:	R. MASONE	DATE:	08/24/2023
CHECKED BY:	C. NAPOLITANO	DRAWING NUMBER:	H-002.00

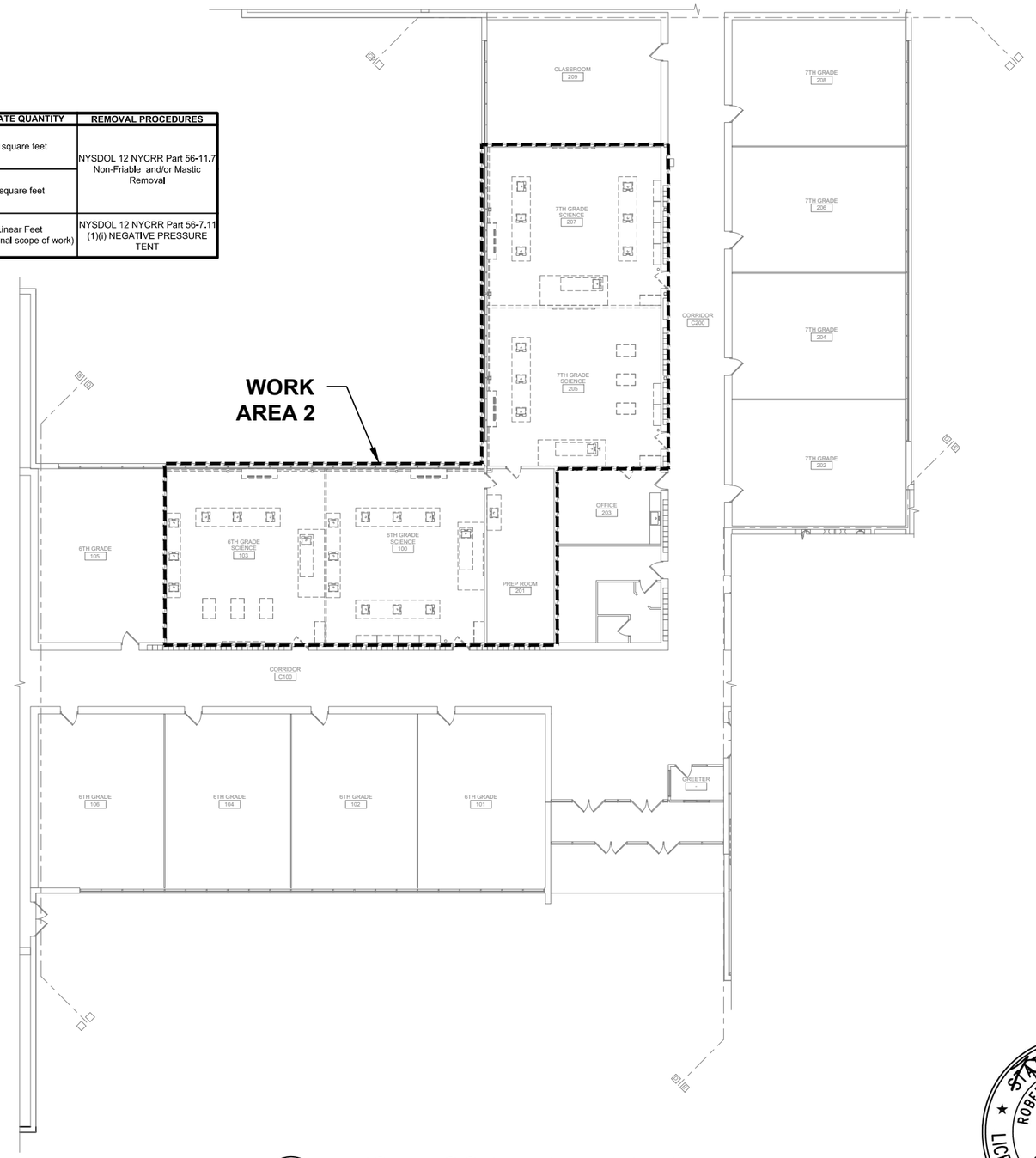
DRAWING NUMBER: 2 of 5

CONSULTANTS PROJECT #: 101061207

LEGEND

WORK AREA BOUNDARY

WORK AREA	LOCATION	ASBESTOS-CONTAINING MATERIAL	APPROXIMATE QUANTITY	REMOVAL PROCEDURES
2	6th Grade Science Classrooms 100, 103 7th Grade Science Rooms 201 (Prep Rm), 205 & 207	9"x9" Floor Tile & Mastic	+/- 4100 square feet	NYSDOL 12 NYCRR Part 56-11.7 Non-Friable and/or Mastic Removal
		Lab Counter Tops-Black	+/- 495 square feet	
		Associated Pipe Fittings (Above Ceiling Tiles)	+/- 80 Linear Feet (or as per the final scope of work)	NYSDOL 12 NYCRR Part 56-7.11 (1)(i) NEGATIVE PRESSURE TENT



2 FIRST FLOOR - AREA E PLAN

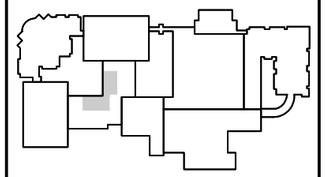
SCALE: NTS

STATE OF NEW YORK
ROBERT SCOTT MASONE
EXCELSIOR
084951
LICENSED PROFESSIONAL ENGINEER

DESIGNER: ROBERT S. MASONE, P.E. LIC. # 084951

KEY PLAN

Key Plan
Copper Beech Middle School



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REVISIONS:

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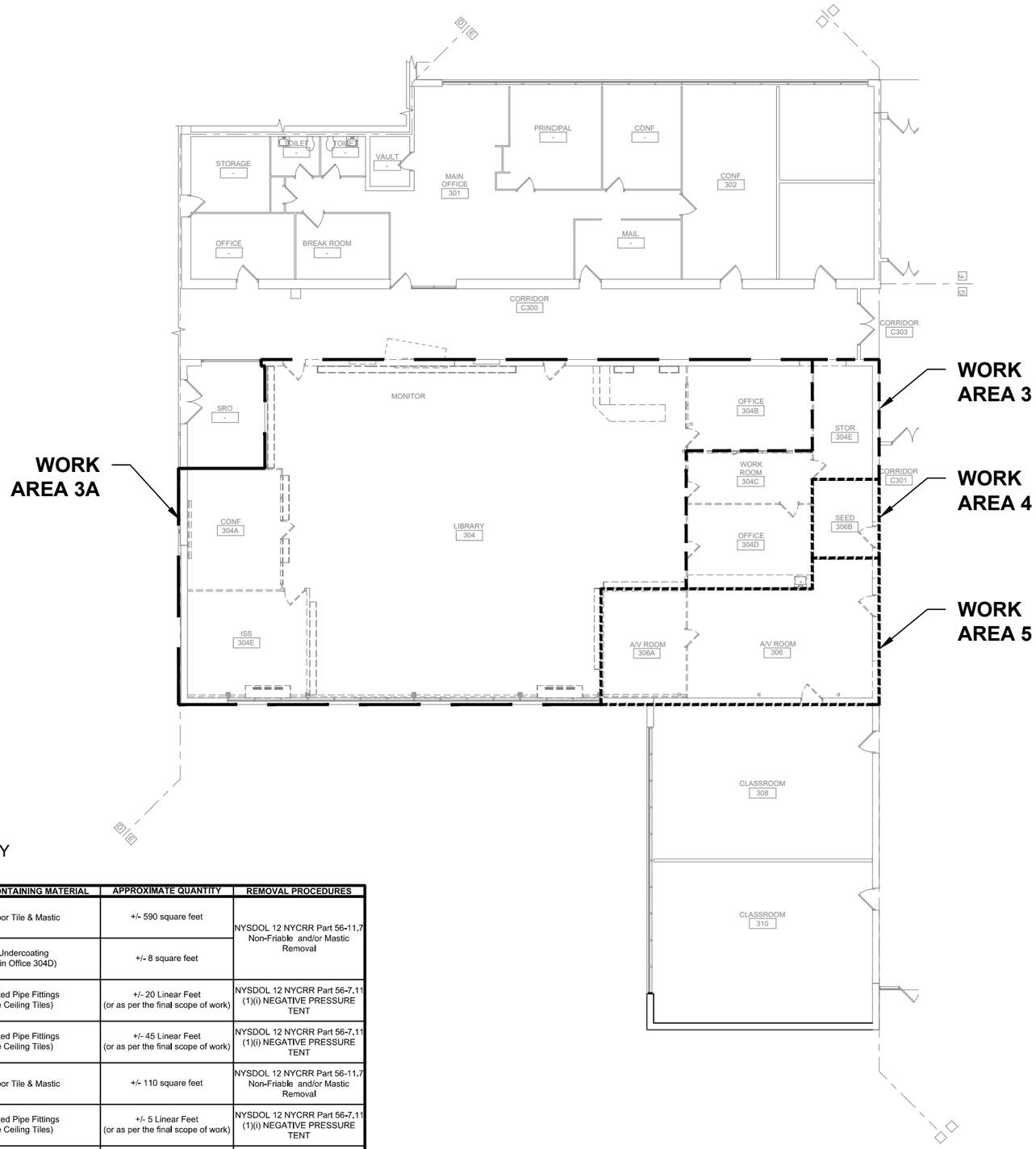
COPPER BEACH MIDDLE SCHOOL
3401 OLD YORKTOWN ROAD
YORKTOWN HEIGHTS, NY 10588

DRAWING TITLE:
ASBESTOS ABATEMENT FIRST FLOOR - AREA E PLAN

DRAWN BY:	A. COFRANCESCO	SCALE:	NOT TO SCALE
PROJ. DESIGNER:	R. MASONE	DATE:	09/29/2023
CHECKED BY:	C. NAPOLITANO	DRAWING NUMBER:	H-003.00
		DRAWING NUMBER:	3 of 5

CONSULTANTS PROJECT #: 101061207



LEGEND

WORK AREA BOUNDARY

WORK AREA	LOCATION	ASBESTOS-CONTAINING MATERIAL	APPROXIMATE QUANTITY	REMOVAL PROCEDURES
3	Library Rooms 304C,304D & 304 E	9"x9" Floor Tile & Mastic	+/- 590 square feet	NYSDOL 12 NYCRR Part 56-11.7 Non-Friable and/or Mastic Removal
		Sink Undercoating (1 Sink in Office 304D)	+/- 8 square feet	
		Associated Pipe Fittings (Above Ceiling Tiles)	+/- 20 Linear Feet (or as per the final scope of work)	NYSDOL 12 NYCRR Part 56-7.11 (1)(i) NEGATIVE PRESSURE TENT
3A	Library Rooms 304A,304B,304E, Main Library Area	Associated Pipe Fittings (Above Ceiling Tiles)	+/- 45 Linear Feet (or as per the final scope of work)	NYSDOL 12 NYCRR Part 56-7.11 (1)(i) NEGATIVE PRESSURE TENT
4	SEED Office/Room 306B	9"x9" Floor Tile & Mastic	+/- 110 square feet	NYSDOL 12 NYCRR Part 56-11.7 Non-Friable and/or Mastic Removal
		Associated Pipe Fittings (Above Ceiling Tiles)	+/- 5 Linear Feet (or as per the final scope of work)	NYSDOL 12 NYCRR Part 56-7.11 (1)(i) NEGATIVE PRESSURE TENT
5	A/V Room 306 306A (above ceiling only)	9"x9" Floor Tile & Mastic	+/- 520 square feet	NYSDOL 12 NYCRR Part 56-11.7 Non-Friable and/or Mastic Removal
		Associated Pipe Fittings (Above Ceiling Tiles)	+/- 20 Linear Feet (or as per the final scope of work)	NYSDOL 12 NYCRR Part 56-7.11 (1)(i) NEGATIVE PRESSURE TENT

3 FIRST FLOOR - AREA D PLAN

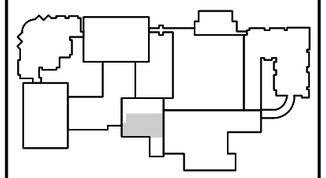
SCALE: NTS

STATE OF NEW YORK
ROBERT SCOTT MASONE
084951
LICENSED PROFESSIONAL ENGINEER

DESIGNER: ROBERT S. MASONE, P.E. LIC. # 084951

KEY PLAN

Key Plan
Copper Beech Middle School



ENVIRONMENTAL CONSULTANT

LANGAN
Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C.
One North Broadway, Suite 910
White Plains, NY 10601
T: 914.323.7400 F: 914.323.7401 www.langan.com

REVISIONS:

NUMBER	DESCRIPTION	DATE
1		
2		
3		
4		

COPPER BEACH MIDDLE SCHOOL
3401 OLD YORKTOWN ROAD
YORKTOWN HEIGHTS, NY 10588

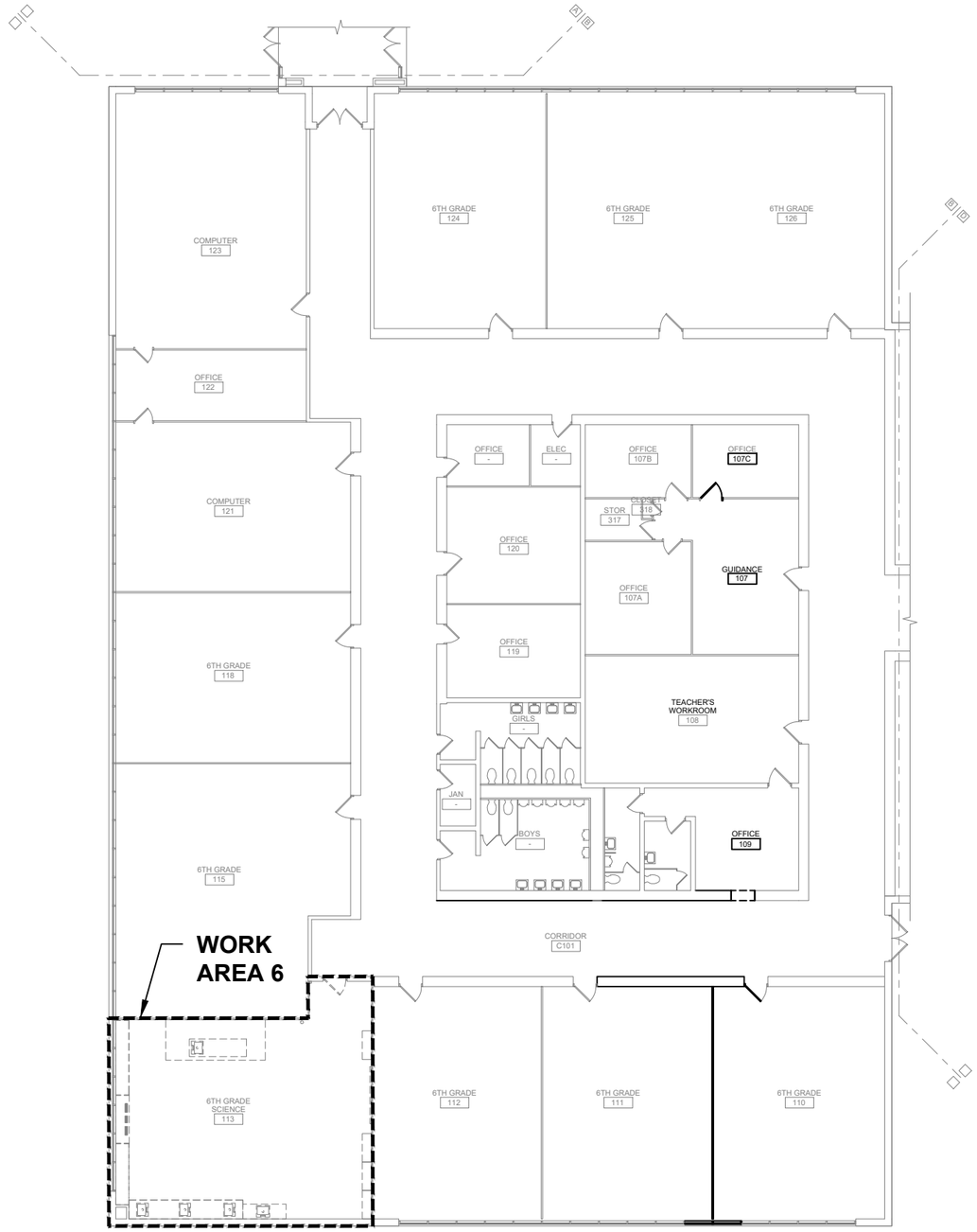
DRAWING TITLE:
ASBESTOS ABATEMENT FIRST FLOOR - AREA D PLAN

DRAWN BY:	A. COFRANCESCO	SCALE:	NOT TO SCALE
PROJ. DESIGNER:	R. MASONE	DATE:	09/29/2023
CHECKED BY:	C. NAPOLITANO		

DRAWING NUMBER:
H-004.00

DRAWING NUMBER:
4 of 5

CONSULTANTS PROJECT #: 101061207



4 FIRST FLOOR - AREA B PLAN

SCALE: NTS

LEGEND

WORK AREA BOUNDARY

WORK AREA	LOCATION	ASBESTOS-CONTAINING MATERIAL	APPROXIMATE QUANTITY	REMOVAL PROCEDURES
6	6th Grade Science Classroom 113	9"x9" Floor Tile & Mastic	+/- 1000 square feet	NYSDOL 12 NYCRR Part 56-11.7 Non-Friable and/or Mastic Removal
		12"x12" Cream Floor Tiles and Mastic	+/- 100 square feet	
		Lab Counter Tops-Black	+/- 95 square feet	
		Associated Pipe Fittings (Above Ceiling Tiles)	+/- 20 Linear Feet (or as per the final scope of work)	NYSDOL 12 NYCRR Part 56-7.11 (1)(i) NEGATIVE PRESSURE TENT

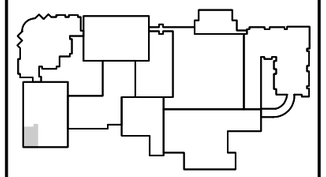
STATE OF NEW YORK
ROBERT SCOTT MASONE
084951
LICENSED PROFESSIONAL ENGINEER

DESIGNER: ROBERT S. MASONE, P.E. LIC. # 084951

KEY PLAN

N

Key Plan
Copper Beech Middle School



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COPPER BEACH
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DRAWING NUMBER: 5 of 5

CONSULTANTS PROJECT #: 101061207

LEGEND

Symbol	Description	Symbol	Description
L.A.	LANDSCAPED AREA	B*	SOIL BORING
P	POST	MB	MAIL BOX
	SIGN	MW	MONITOR WELL
IPF	IRON PIPE FOUND	TMH	TELEPHONE MANHOLE
CIRF	CAPPED IRON ROD FOUND	TSP	TRAFFIC SIGNAL POLE
	CONC. MONUMENT	TSB	TRAFFIC SIGNAL BOX
IRF	IRON ROD FOUND	EMH	ELECTRIC MANHOLE
CB	CATCH BASIN		UTILITY POLE
DMH	DRAIN MANHOLE	LP	LIGHT POLE
SMH	SANITARY MANHOLE	ICV	IRRIGATION CONTROL VALVE
CO	CLEANOUT	HYD	HYDRANT
GV	GAS VALVE	WV	WATER VALVE
		WMH	WATER MANHOLE

Line	Description
OHW	OVERHEAD WIRES
FO	UNDERGROUND FIBER OPTIC
T	UNDERGROUND COMMS
G	UNDERGROUND GAS
W	UNDERGROUND WATER
E	UNDERGROUND ELECTRIC
- - - -	OVERHEAD ROOF

BAR SCALE
30 0 15 30 60
1 inch = 30 ft.

MAP NOTES:
1) NORTH ORIENTATION IS PER N.Y.S. PLANE COORDINATES (NAD83 NY EAST).
2) VERTICAL DATUM IS PER NAVD88.
3) THIS SURVEY WAS PREPARED WITHOUT THE BENEFIT OF AN ABSTRACT OR UP TO DATE TITLE REPORT AND IS THEREFORE SUBJECT TO ANY EASEMENTS, RESTRICTIONS, COVENANTS OR ANY STATEMENT OF FACTS THAT SUCH DOCUMENTS MAY DISCLOSE.
4) UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM DATA OBTAINED BY FIELD SURVEY, PREVIOUS MAPS AND RECORDS, AND FROM PAROLE TESTIMONY MADE BY SCHOOL DISTRICT AND UTILITY COMPANY PERSONNEL. THERE MAY BE OTHER UNDERGROUND UTILITIES, THE EXISTENCE OF WHICH ARE NOT KNOWN TO THE UNDERSIGNED. SIZE AND LOCATION OF ALL UNDERGROUND UTILITIES AND STRUCTURES MUST BE VERIFIED BY THE APPROPRIATE AUTHORITIES PRIOR TO ANY CONSTRUCTION.
5) FLOOD DATA OBTAINED FROM FIRM COMMUNITY PANEL 36119C0029F WITH AN EFFECTIVE DATE OF 9/28/2007. ENTIRE PROPERTY LIES IN ZONE X (OUTSIDE OF THE FLOOD PLAIN).

SHEET INDEX
1
2

MAP REFERENCES:
1) UTILITY PLAN, LAKELAND C.S.D., SHEET A1.4; BY SARKA LEFF ENGINEERING, PLLC; AND DATED SEPTEMBER 22, 1999.
2) STORMWATER, EROSION AND SEDIMENT CONTROL PLAN, LAKELAND C.S.D., SHEET SP1-CB; BY DODGE CHAMBERLAIN LUZINE WEBBER ASSOCIATES AND DATED 4/21/2004.
3) SITE PREPARATION, LAKELAND M.S. COPPER BEECH SITE; BY FUDGE & UNDERHILL ARCHITECTS & ENGINEERS AND DATED 5/3/1965.

BOUNDARY & TOPOGRAPHIC SURVEY
COPPER BEECH MIDDLE SCHOOL
LAKELAND CENTRAL SCHOOL DISTRICT
TOWN OF YORKTOWN, WESTCHESTER COUNTY, STATE OF NEW YORK
PREPARED FOR TETRA TECH ARCHITECTS & ENGINEERS

Parcel: 16.15-1-3
Project No. - 22.09
Scale - 1"=30 feet
Sheet 1 of 2
Survey Date - 11/25/22
Map Date - 12/19/22
Checked By - RTB
Revisions -

Survey Prepared By:
BOLTON
LAND SURVEYING, P.C.
P.O. Box 265 - Pulaski, NY 13142
TEL(315)298-5210 FAX: 298-6787

ROBERT T. BOLTON
L.S.#49880

DWG. NAME=LAKELAND COPPER BEECH MS

DV001

LEGEND

L.A.	LANDSCAPED AREA	SB	SOIL BORING
	POST	MB	MAIL BOX
	SIGN	MW	MONITOR WELL
	IRON PIPE FOUND	TMH	TELEPHONE MANHOLE
CIRF	CAPPED IRON ROD FOUND	TSP	TRAFFIC SIGNAL POLE
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IRF	IRON ROD FOUND	EMH	ELECTRIC MANHOLE
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SMH	SANITARY MANHOLE	ICV	IRRIGATION CONTROL VALVE
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GV	GAS VALVE	WV	WATER VALVE
		WMH	WATER MANHOLE

OHV OHV OHV — OVERHEAD WIRES
FO FO FO — UNDERGROUND FIBER OPTIC
T T T — UNDERGROUND COMMS
G G G — UNDERGROUND GAS
W W W — UNDERGROUND WATER
E E E — UNDERGROUND ELECTRIC
— OVERHEAD ROOF

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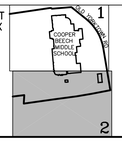
SHEET INDEX



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Revisions –

Survey Prepared By:
BOLTON
LAND SURVEYING, P.C.
P.O. Box 265 – Pulaski, NY 13142
TEL(315)298-5210 FAX: 298-6787

"Unauthorized alteration or addition to a survey map bearing a licensed land surveyor's seal is a violation of section 7209, sub-division 2, of the New York State Education Law."
"Only copies from the original of this survey map marked with an original of the land surveyor's inked embossed seal shall be considered to be valid true copies."
"Certifications indicated hereon signify that this survey was prepared in accordance with the existing code of practice for land surveys adopted by the New York State Association of Professional Land Surveyors. Said certifications shall run only to the persons for whom the survey is prepared, and on their behalf to the title company, governmental agency and lending institution listed hereon, and to the assignees of the lending institution."
"Certifications are not transferrable to additional institutions or subsequent owners."
"The location of underground improvements or encroachments, if any exist or are shown hereon, is approximate."
"This survey carries is not valid, and the surveyor assumes no liability if it is used in connection with a "Survey Affidavit" or similar document, statement or mechanism to obtain title insurance."

ROBERT T. BOLTON
L.S.#49880

DWG. NAME=LAKELAND COPPER BEECH MS

DV002

1 Site Demolition Plan
1" = 30'

Site Preparation/Demolition Key Notes

1 EXISTING LAWN AREA TO REMAIN - REPAIR AS REQUIRED

2 SAW CUT EXISTING ASPHALT PAVEMENT, LEAVING NEAT, SMOOTH AND STRAIGHT EDGE (TYP.).

3 EXISTING UTILITY TO REMAIN, PROTECT.

4 EXISTING ASPHALT TO REMAIN, PROTECT (TYP.).

5 EXISTING CONCRETE TO REMAIN, PROTECT (TYP.).

6 REMOVE EXISTING TREE, INCLUDING STUMP, ROOT AND ALL ORGANIC MATTER. BACKFILL VOIDS IN SPECIFIED LIFTS. REFER TO PROJECT MANUAL - EARTH MOVING SECTION. GEOTECHNICAL ENGINEER TO BE PRESENT DURING FILL AND COMPACTION OPERATIONS.

7 STRIP, SCREEN, AND STOCKPILE TOPSOIL. STOCKPILE LOCATION TO BE APPROVED BY OWNER'S REPRESENTATIVE. REMOVE SUBGRADE AS REQUIRED TO MEET DESIGN GRADES AND ACCOMMODATE NEW WORK. HAND DIG IN VICINITY OF EXISTING BURIED UTILITIES TO AVOID DAMAGE (TYP.).

8 REMOVE EXISTING CONCRETE CURB AND SIDEWALK, INCLUDING AGGREGATE AND SUBBASE. REMOVE ADDITIONAL SUBBASE AS REQUIRED TO MEET DESIGN GRADES AND ACCOMMODATE NEW WORK.

9 SAW CUT EXISTING CONCRETE SIDEWALK AT NEAREST JOINT, LEAVING A NEAT, SMOOTH, AND STRAIGHT EDGE (TYP.).

10 REMOVE EXISTING ASPHALT PAVEMENT SECTION, INCLUDING AGGREGATE AND SUBBASE. REMOVE ADDITIONAL SUBBASE AS REQUIRED TO MEET DESIGN GRADES AND ACCOMMODATE NEW WORK.

11 REMOVE EXISTING SIGNAGE, POSTS AND FOOTINGS.

12 EXISTING FIRE HYDRANT TO BE REMOVED IN COMPLIANCE WITH NYSFC2020 901.7.

13 REMOVE AND DISPOSE EXISTING CONCRETE CURB.

14 REMOVE EXISTING SLATE, INCLUDING AGGREGATE AND SUBBASE. REMOVE ADDITIONAL SUBBASE AS REQUIRED TO MEET DESIGN GRADES AND ACCOMMODATE NEW WORK.

15 REMOVE EXISTING PLANTER AND TURN OVER TO OWNER.

16 EXISTING CANOPY OVER SIDEWALK TO REMAIN, PROTECT.

17 REMOVE EXISTING STORM STRUCTURE. BACKFILL VOIDS IN SPECIFIED LIFTS. REFER TO PROJECT MANUAL - EARTH MOVING SECTION. GEOTECHNICAL ENGINEER TO BE PRESENT DURING FILL AND COMPACTION OPERATIONS.

18 ALTERNATE No. CB-02: SAW CUT EXISTING ASPHALT PAVEMENT, LEAVING NEAT, SMOOTH AND STRAIGHT EDGE (TYP.).

19 ALTERNATE No. CB-02: STRIP, SCREEN, AND STOCKPILE TOPSOIL. STOCKPILE LOCATION TO BE APPROVED BY OWNER'S REPRESENTATIVE. REMOVE SUBGRADE AS REQUIRED TO MEET DESIGN GRADES AND ACCOMMODATE NEW WORK. HAND DIG IN VICINITY OF EXISTING BURIED UTILITIES TO AVOID DAMAGE (TYP.).

20 ALTERNATE No. CB-02: REMOVE EXISTING ASPHALT PAVEMENT SECTION, INCLUDING AGGREGATE AND SUBBASE. REMOVE ADDITIONAL SUBBASE AS REQUIRED TO MEET DESIGN GRADES AND ACCOMMODATE NEW WORK.

21 REMOVE UNDERGROUND UTILITY AND BACKFILL PER SPECIFICATIONS. EXISTING UTILITIES UNDER SITE FEATURES THAT CAN NOT BE REMOVED CAN BE ABANDONED IN PLACE, CAP ENDS AND FILL WITH FLOWABLE FILL.

22 REMOVE EXISTING DRAIN MANHOLE.

23 LIMIT OF ALTERNATE No. CB-02.

24 EXISTING FLAGPOLE TO REMAIN, PROTECT.

25 ALTERNATE No. CB-03: REMOVE EXISTING CONCRETE CURB AND SIDEWALK, INCLUDING AGGREGATE AND SUBBASE. REMOVE ADDITIONAL SUBBASE AS REQUIRED TO MEET DESIGN GRADES AND ACCOMMODATE NEW WORK.

26 ALTERNATE No. CB-03: REMOVE EXISTING ASPHALT PAVEMENT SECTION, INCLUDING AGGREGATE AND SUBBASE. REMOVE ADDITIONAL SUBBASE AS REQUIRED TO MEET DESIGN GRADES AND ACCOMMODATE NEW WORK.

27 LIMIT OF ALTERNATE No. CB-03.

28 ALTERNATE No. CB-04: REMOVE EXISTING ASPHALT PAVEMENT SECTION, INCLUDING AGGREGATE AND SUBBASE. REMOVE ADDITIONAL SUBBASE AS REQUIRED TO MEET DESIGN GRADES AND ACCOMMODATE NEW WORK.

29 EXISTING CONCRETE STEP / BLOCK TO REMAIN, PROTECT.

Site Preparation/Demolition General Notes

1. THESE GENERAL SITE / PREPARATION / DEMOLITION NOTES REFER TO C-SERIES DRAWINGS.
2. THE INTENT OF THIS DRAWING IS TO INDICATE PREPARATORY WORK, REMOVALS AND DEMOLITION NECESSARY TO CONSTRUCT THE PROJECT AS SHOWN ON THE REST OF THE CONTRACT DRAWINGS. SOME NOTES ARE GENERAL IN NATURE AND IT SHALL BE UNDERSTOOD THAT IT IS NOT FEASIBLE TO INDICATE EACH AND EVERY SPECIFIC REMOVAL. SITE PREPARATION / DEMOLITION DRAWINGS SHALL NOT BE USED ALONE, BUT SHALL BE USED IN CONJUNCTION WITH THE OTHER DRAWINGS FOR WORK TO BE REMOVED, REUSED, AND / OR REVISED NOT INDICATED HERE.
3. CONTRACTOR TO MAINTAIN UTILITY SERVICES TO BUILDINGS TO REMAIN. IF UTILITY SERVICES MUST BE INTERRUPTED THE CONTRACTOR SHALL COORDINATE THAT SHUTDOWN TO MINIMIZE IMPACT TO BUILDINGS. SEE PROJECT MANUAL REGARDING COORDINATION OF DEMOLITION WORK WITH UTILITY COMPANIES.
4. THE CONTRACTOR IS RESPONSIBLE TO MAINTAIN SAFE SITE ACCESS TO PEDESTRIAN, VEHICULAR TRAFFIC, EMERGENCY AND HEALTH SAFETY AGENCIES. IF ACCESS WILL BE COMPROMISED IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE AT LEAST ONE WEEK IN ADVANCE WITH THE OWNER'S REPRESENTATIVE AND HEALTH SAFETY AGENCIES, UNLESS OTHERWISE NOTED IN THE PROJECT MANUAL.
5. UTILITIES, SIDEWALKS, PAVEMENT, SLABS, FOUNDATIONS, AND MISCELLANEOUS FEATURES NOTED TO BE DEMOLISHED SHALL BE SPOILED OFF-SITE IN A LEGAL MANNER UNLESS OTHERWISE DIRECTED BY THE OWNER'S REPRESENTATIVE. NO BURNING OF DEBRIS SHALL BE ALLOWED. IMMEDIATELY BACKFILL VOIDS WITH COMPACTED GRANULAR MATERIAL AS SPECIFIED.
6. WHEN A SITE FEATURE IS INDICATED TO BE REMOVED, THE SITE FEATURE, INCLUDING APPURTENANCES AND FOOTINGS, SHALL BE DISPOSED OF LEGALLY OFF SITE, UNLESS OTHERWISE INDICATED. IMMEDIATELY BACKFILL VOIDS WITH COMPACTED GRANULAR MATERIALS AS SPECIFIED.
7. WHEN A SITE FEATURE IS INDICATED TO REMAIN, IT SHALL BE PROTECTED AS INDICATED AND / OR SPECIFIED. WHEN DISTURBANCE OCCURS AROUND AN EXISTING FEATURE, THE CONTRACTOR SHALL USE ADDITIONAL PRECAUTIONS INCLUDING, BUT NOT LIMITED TO HAND DIGGING TO PROTECT THE FEATURE.
8. EXISTING ON-SITE UTILITIES SHALL REMAIN UNLESS DESIGNATED FOR REMOVAL. PROTECT ALL EXISTING UTILITIES TO REMAIN.
9. MANHOLES, CATCH BASINS, CLEAN OUTS, VALVE BOXES, FRAMES, COVERS AND GRATES REMAINING IN USE SHALL BE PROTECTED AND ADJUSTED TO FINAL GRADES. CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE AT ALL TIMES.
10. CONTRACTOR IS RESPONSIBLE TO VERIFY GRADES AND UTILITIES SHOWN ON EXISTING CONDITIONS PLAN PRIOR TO START OF WORK. DISCREPANCIES ARE TO BE DOCUMENTED AND SUBMITTED TO THE OWNER'S REPRESENTATIVE AT THE TIME OF DISCOVERY.
11. CONTRACTOR SHALL BE RESPONSIBLE FOR RELOCATIONS, INCLUDING, BUT NOT LIMITED TO, UTILITIES, STORM DRAINAGE, SIGNS, ETC. AS INDICATED ON DESIGN DOCUMENTS.
12. IF EXISTING SITE FEATURES TO REMAIN ARE DAMAGED DURING CONSTRUCTION BY CONTRACTOR, SITE FEATURES SHALL BE REPAIRED IN-KIND, TYPICAL.
13. CONTRACTOR TO REMOVE OR RELOCATE, WHEN APPLICABLE, ALL CONNECTING IMPROVEMENTS, DRAIN PIPES, SANITARY SEWER PIPES, POWER POLES, AND GUY WIRES, WATER METERS AND WATER LINES, WELLS, SIDEWALKS, SIGN POLES, UNDERGROUND GAS, SEPTIC TANKS, AND ASPHALT, SHOWN AND NOT SHOWN, WITHIN CONSTRUCTION LIMITS AND WHERE NEEDED, TO ALLOW FOR NEW CONSTRUCTION AS SHOWN.
14. CONTRACTOR TO NOTIFY OWNERS REPRESENTATIVE IF UNIDENTIFIED UTILITIES ARE ENCOUNTERED INCLUDING, BUT NOT LIMITED TO, STORM SEWER, SANITARY SEWER, TELECOMMUNICATIONS SERVICE, ELECTRICAL SERVICE, GAS SERVICE, WATER SERVICE, IRRIGATION LINES. UTILITIES LINES TO REMAIN UNDISTURBED UNTIL DIRECTED BY OWNERS REPRESENTATIVE.
15. CONTRACTOR SHALL REQUEST UFPO PRIOR TO START OF ANY WORK. "DIG SAFELY NEW YORK - CALL 811 - BEFORE YOU DIG".

Site Phasing Notes

1. INSTALL SOIL EROSION AND SEDIMENT CONTROL MEASURES BEFORE SOIL DISTURBANCE AND INSTALLATION OF OTHER TEMPORARY CONSTRUCTION FEATURES.
2. ACCESS ROADS AND CONSTRUCTION ENTRANCES ARE TO BE KEPT CLEAR AT ALL TIMES.
3. REFER TO PROJECT MANUAL FOR PHASING INFORMATION FOR INSTALLATION OF PAVING, SIDEWALKS, CURBING AND STORM UTILITIES.
4. CONTRACTOR PARKING IS RESTRICTED TO STAGING OR DESIGNATED TEMPORARY PARKING AREAS.
5. AT STAGING AND OTHER TEMPORARY AREAS TO BE RESTORED TO LAWN: THOROUGHLY REMOVE GRAVEL, STONES, DEBRIS, VEGETATION, ETC. FROM EXISTING TOPSOIL AND SCARIFY TO A MINIMUM DEPTH OF 6". AMEND TOPSOIL WITH COMPOST AND NUTRITIONAL AMENDMENTS AND FINE GRADE, FERTILIZE AND SEED OR SOD.
6. AT STAGING AND OTHER TEMPORARY AREAS ON EXISTING PAVING: CONTRACTOR TO REMOVE AND REPLACE EXISTING PAVING IN ACCORDANCE WITH DRAWINGS AND SPECIFICATIONS.
7. PAVING THAT IS DAMAGED DUE TO CONSTRUCTION ACTIVITIES IS TO BE REMOVED AND REPLACED IN ACCORDANCE WITH DRAWINGS AND SPECIFICATIONS.
8. LAWN THAT IS DAMAGED DUE TO CONSTRUCTION ACTIVITIES IS TO BE REMOVED AND THE AREA SCARIFIED. PROVIDE NEW TOPSOIL AS REQUIRED TO BRING THE AREA TO MATCH SURROUNDING GRADE. FERTILIZE AND SEED OR SOD.

General Site Notes

1. THESE GENERAL SITE NOTES APPLY TO AC-SERIES DRAWINGS.
2. REFER TO SURVEY FOR INFORMATION ON EXISTING FEATURES. IF EXISTING FEATURES ARE MISSING, MODIFIED, OBSCURED, OR THERE IS A CONFLICT BETWEEN HOW AN EXISTING FEATURE IS PORTRAYED ON THIS SHEET AND THE SURVEY, THE SURVEY SHALL GOVERN.
3. PRIOR TO CONSTRUCTION, LOCATE AND PROMINENTLY MARK THE PROPERTY LINES IN THE FIELD. PROTECT PROPERTY LINE MARKING AND MONUMENTS DURING CONSTRUCTION UNTIL FINAL ACCEPTANCE.
4. THE SURVEY(S) INCLUDED IN THESE DOCUMENTS ARE PROVIDED FOR INFORMATION ONLY AND ARE THE BASE INFORMATION USED TO PREPARE THE WORK INDICATED ON THESE DRAWINGS. THE DATA INDICATED REGARDING EXISTING CONDITIONS IS NOT INTENDED AS REPRESENTATIONS OR WARRANTIES OF THEIR ACCURACY. BY INCLUSION OF THE SURVEY(S) IN THIS SET OF DOCUMENTS, TETRA TECH AND THE OWNER DO NOT ASSUME RESPONSIBILITY FOR ACCURACY OF THE SURVEY, NOR FOR INTERPRETATIONS OR CONCLUSIONS DRAWN THEREFROM BY THE CONTRACTOR.
5. THE CONTRACTOR SHALL FIELD VERIFY EXISTING FEATURES, CONDITIONS, UTILITIES, PROPERTY LINES AND TOPOGRAPHY PRIOR TO COMMENCEMENT OF WORK. ANY DISCREPANCIES WHICH WILL AFFECT THE WORK REQUIRED AS PART OF THE CONTRACT DOCUMENTS SHALL BE IMMEDIATELY REPORTED IN WRITING TO THE ARCHITECT. COMMENCEMENT OF WORK WITHOUT THIS WRITTEN NOTIFICATION SHALL CONSTITUTE CONTRACTOR ACCEPTANCE OF THE EXISTING INFORMATION INDICATED ON THE DRAWINGS AS ACCURATE. NO ADJUSTMENTS TO THE CONTRACT WILL BE MADE FOR THE DISCREPANCIES BROUGHT TO THE OWNER'S ATTENTION AFTER WORK HAS BEGUN.
6. NO ATTEMPT HAS BEEN MADE TO SHOW ALL UNDERGROUND UTILITIES ON THIS DRAWING. CONTACT UNDERGROUND UTILITY LOCATION ORGANIZATION AND LOCAL UTILITY COMPANIES TO VERIFY THE LOCATION OF UTILITIES PRIOR TO EARTHWORK, TRENCHING OR EXCAVATION OPERATIONS.
7. CONTRACT LIMIT LINE SHALL BE TEN FEET OUTSIDE OF LIMITS OF WORK INDICATED ON THESE DRAWINGS AND NOT TO EXTEND BEYOND THE PROPERTY LINE UNLESS OTHERWISE INDICATED.
8. CONTRACTOR SHALL PROVIDE CONSTRUCTION/PROTECTIVE FENCING OR OTHER MEANS NECESSARY TO PROTECT WORK AND TO ENSURE SAFETY OF THE PUBLIC, PEDESTRIANS AND VEHICULAR TRAFFIC DURING CONSTRUCTION.
9. FOR INFORMATION REGARDING SUBSURFACE CONDITIONS AND TEST LOCATIONS, COORDINATE WITH OWNER REGARDING THE AVAILABILITY OF GEOTECHNICAL INFORMATION.
10. AT EDGE OF ALL NEW PAVING MEETING LAWN, REMOVE EXISTING TURF TO MINIMUM OF 4-FT FROM NEW PAVEMENT EDGE, UNLESS OTHERWISE NOTED. CUT NEAT REMOVAL LINE AND SCARIFY EXISTING GRADE. PROVIDE TAMPED TOPSOIL TO BRING EXISTING GRADE FLUSH WITH NEW PAVING. SLOPE LAWN AWAY FROM PAVING TO PREVENT PONDING. FINE GRADE, FERTILIZE, SEED AND MULCH IN ACCORDANCE WITH THE PROJECT MANUAL.

SITE DEMOLITION AND PREPARATION LEGEND

	REMOVE EXISTING ASPHALT PAVEMENT SECTION AND SUBBASE AS REQUIRED
	REMOVE EXISTING CONCRETE PAVEMENT SECTION AND SUBBASE AS REQUIRED
X	REMOVE SITE FEATURE AS INDICATED IN DEMOLITION KEYNOTES (Specific Feature)
	REMOVE LINEAR FEATURE REFER TO DRAWING'S FOR TYPE
	REMOVE EXISTING LAWN AND SOIL AS REQUIRED

S.E.D. Control No. 66-24-01-06-0-012-025

Rev. No.:	Date:	Description:
1	7/22/2024	REVISED FOR ALTERNATE CB-03 AND CB-04

complex world | CLEAR SOLUTIONS

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

BID SET

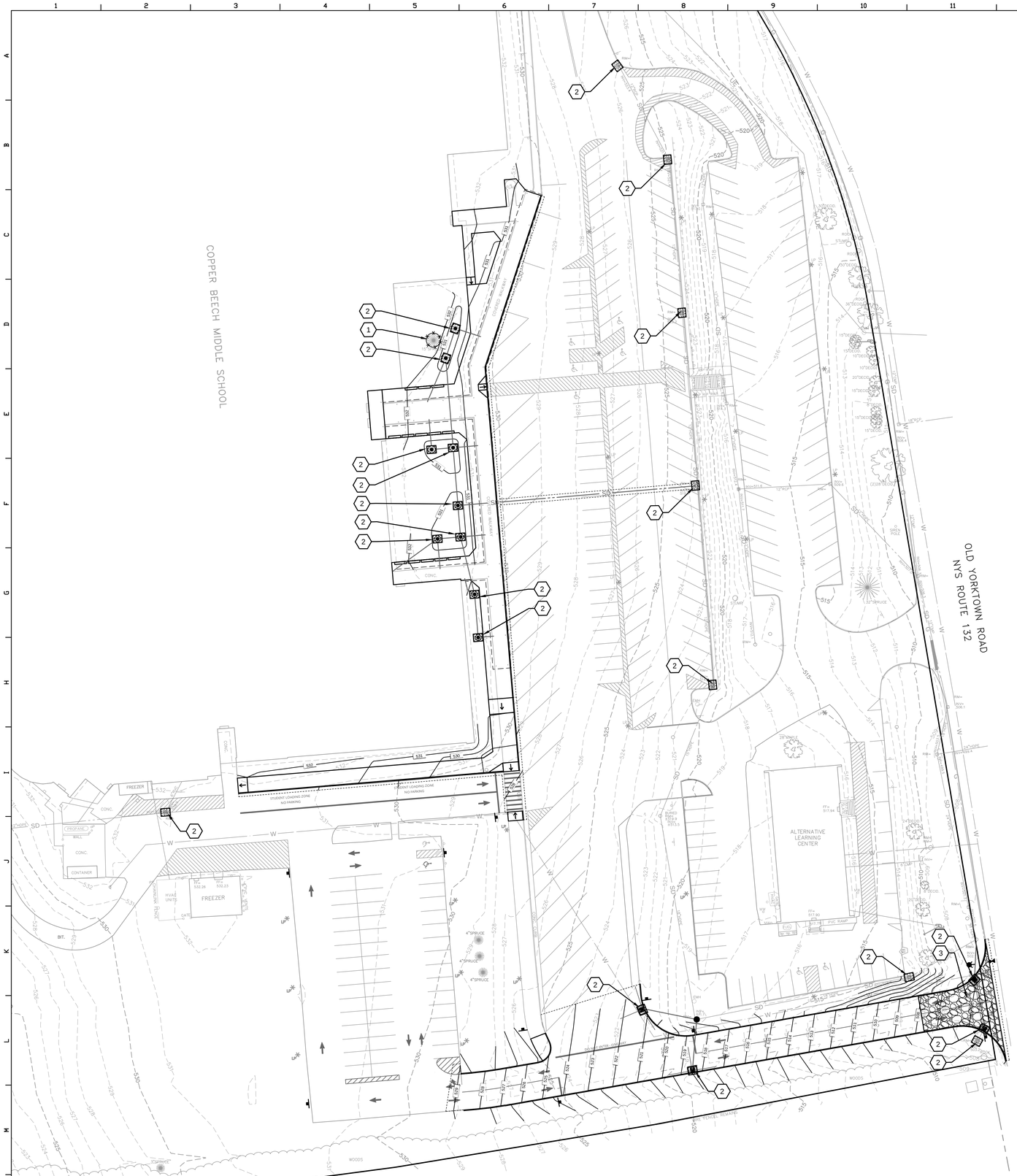
TETRA TECH
ARCHITECTS & ENGINEERS

Lakeland Central School District
Shrub Oak, New York

Reconstruction to:
Lakeland Copper Beech Middle School

Site Demolition Plan

Drawn by:	Date:	Drawing No.:
J.L.P.	10/13/2023	DC100
Project No.: 276721-23001		



1 Site Soil Erosion and Sediment Control Plan
1" = 30'

Site Erosion and Sediment Control Notes

1. ALL SOIL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE INSTALLED IN ACCORDANCE WITH THE STANDARDS SPECIFIED IN THE NEW YORK STATE STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL (BLUE BOOK), LATEST EDITION, AND WILL BE INSTALLED IN PROPER SEQUENCE AND MAINTAINED UNTIL PERMANENT PROTECTION IS ESTABLISHED.
2. ANY DISTURBED AREA THAT WILL BE LEFT EXPOSED FOR MORE THAN THIRTY DAYS AND NOT SUBJECT TO CONSTRUCTION TRAFFIC SHALL IMMEDIATELY RECEIVE A TEMPORARY SEEDING. IF THE SEASON PROHIBITS TEMP. SEEDING, THE DISTURBED AREA WILL BE MULCHED WITH SALT HAY OR EQUIVALENT AND BOUND IN ACCORDANCE WITH THE NY STANDARDS.
3. NYS DEC REGULATIONS REQUIRE THAT DISTURBANCE BE LIMITED TO AREAS LESS THAN 5-ACRES AT ANY ONE TIME.
4. IMMEDIATELY FOLLOWING INITIAL DISTURBANCE OR ROUGH GRADING, ALL CRITICAL AREAS SUBJECT TO EROSION WILL RECEIVE A TEMPORARY SEEDING IN COMBINATION WITH STRAW MULCH OR A SUITABLE EQUIVALENT ACCORDING TO NYS DEC STANDARDS.
5. STABILIZATION SPECIFICATIONS:

   A. SOIL AMENDMENTS:

   LIME - PROVIDE GROUND LIMESTONE TO PH OF 6.0.

   FERTILIZER - 14 LBS/1,000 S.F., 5-10-10 OR EQUIVALENT WORKED INTO SOIL A MINIMUM OF 4".

   B. TEMPORARY SEEDING AND MULCHING:

   SEED - ANNUAL RYEGRASS 30 LBS/ACRE; PLANT BETWEEN MARCH 1 AND MAY 15 OR BETWEEN AUGUST 15 AND OCTOBER 1. USE WINTER RYE IF SEEDING IN OCT./NOV.

   MULCH - SALT HAY OR SMALL GRAIN STRAW AT A RATE OF 90 LBS/1,000 S.F., TO BE APPLIED ACCORDING TO THE NY STANDARDS. MULCH SHALL BE SECURED BY WOOD FIBER MULCH (HYDROMULCH) AT 11-17 LBS./1,000 S.F. WOOD FIBER MULCH MUST BE APPLIED THROUGH A HYDROSEEDER IMMEDIATELY AFTER MULCHING.

   C. PERMANENT SEEDING AND MULCHING:

   SEED - REFER TO PROJECT MANUAL SPECIFICATIONS FOR SEED TYPE, RATE OF SEEDING AND SEASON OF SEEDING. RATE AND SEED TYPE ARE TO MEET THE MINIMUM REQUIREMENTS OF THE NY STANDARDS.

   MULCH - REFER TO PROJECT MANUAL SPECIFICATIONS FOR MULCH TYPE, RATE OF APPLICATION, ETC. RATE AND MULCH TYPE ARE TO MEET THE MINIMUM REQUIREMENTS OF THE NY STANDARDS.
6. TEMPORARY BERMS ARE TO BE INSTALLED ON ALL CLEARED ROADWAYS AND EASEMENT AREAS IN ACCORDANCE WITH SECTION 5A OF THE NY STANDARDS.
7. THE SITE SHALL AT ALL TIMES BE GRADED AND MAINTAINED SUCH THAT ALL STORMWATER RUN-OFF IS DIVERTED TO SOIL EROSION AND SEDIMENT CONTROL FACILITIES.
8. ALL SEDIMENTATION STRUCTURES WILL BE INSPECTED AND MAINTAINED ON A REGULAR BASIS.
9. STOCKPILES ARE NOT TO BE LOCATED WITHIN 50' OF A FLOODPLAIN, SLOPE, ROADWAY, OR DRAINAGE FACILITY. THE BASE OF ALL STOCKPILES SHOULD BE PROTECTED BY A SILT DAM OR STRAW BALE DIKE IN ACCORDANCE WITH NY STANDARDS.
10. A CRUSHED STONE, VEHICLE WHEEL-CLEANING BLANKET WILL BE INSTALLED WHEREVER A CONSTRUCTION ACCESS ROAD INTERSECTS ANY PAVED ROADWAY. SAID BLANKET WILL BE COMPOSED OF 2" CRUSHED STONE, 6" THICK, WILL BE AT LEAST 30'X100' AND SHOULD BE UNDERLAIN WITH A SUITABLE SYNTHETIC SEDIMENT FILTER FABRIC AND MAINTAINED (SEE DETAIL).
11. ALL CATCH BASIN INLETS WILL BE PROTECTED WITH A FABRIC FILTER CRUSHED STONE OR FABRIC FILTER (FILTER DETAILS APPEAR ON THE PLAN).
12. ALL STORM DRAINAGE OUTLETS WILL BE STABILIZED, AS REQUIRED, BEFORE THE DISCHARGE POINTS BECOME OPERATIONAL.
13. ALL DEWATERING OPERATIONS MUST DISCHARGE DIRECTLY INTO A SEDIMENT TRAP OR APPROVED AFTERMARKET PRODUCT IN ACCORDANCE WITH SECTION 5A OF THE NY STANDARDS.
14. PAVED ROADWAYS MUST BE KEPT CLEAN AT ALL TIMES.
15. STABILIZED CONSTRUCTION ENTRANCE AND CONSTRUCTION ACCESS AREAS TO BE RESTORED TO EXISTING CONDITIONS, LAWN RESTORATION SHALL INCLUDE REMOVAL GRANULAR FILL, GRAVEL AND STONE. SCARIFY SUBGRADE. PROVIDE TOPSOIL AND LIGHTLY COMPACT TO BE FLUSH WITH SURROUNDING GRADE. FINE GRADE, FERTILIZE, SEED AND MULCH.

Site Erosion & Sediment Control Sequence

1. INSTALL STABILIZED CONSTRUCTION ENTRANCE PAD.
2. INSTALL TEMPORARY TREE PROTECTION AT EXISTING TREES WITHIN CONSTRUCTION AREA. PRIOR TO COMMENCEMENT OF GRADING OPERATIONS.
3. INSTALL SILT FENCE, SEDIMENT TRAPS AND SEDIMENT BASINS.
4. INSTALL TEMPORARY STORM SEWER INLET PROTECTION AT ALL EXISTING DRAINAGE INLETS THAT WILL BE RECEIVING STORM DRAINAGE FROM CONSTRUCTION ACTIVITIES.
5. PREPARE CONTRACTOR ACCESS DRIVES, PARKING AND STAGING AREAS WITH TYPE 2 FILL OR OTHER SURFACING THAT WILL PREVENT EROSION OF THESE AREAS. STRIP TOPSOIL AND STOCKPILE IN LOCATION SHOWN.
6. SURROUND ALL STOCKPILES WITH SILT FENCE OR HAY BALE BARRIER. THROUGHOUT GRADING OPERATIONS,
7. PROVIDE TEMPORARY AND PERMANENT SEEDING PER SOIL EROSION AND SEDIMENT CONTROL NOTES NOS. 2, 3, & 4.
8. AFTER SLOPES ARE CUT OR FILLED, PROVIDE EROSION CONTROL MATTING AT ALL SLOPES THAT ARE THREE HORIZONTAL TO ONE VERTICAL AND STEEPER.
9. BEFORE COMMENCEMENT OF EXCAVATING FOR FOOTINGS, INSPECT SITE WITH OWNER/ARCHITECT FOR COMPLIANCE WITH SOIL EROSION AND SEDIMENT CONTROL REQUIREMENTS.
10. DURING EXCAVATION FOR FOOTINGS, TRENCHES, ETC., WHEN DEWATERING IS REQUIRED, PROVIDE MEANS TO REMOVE SEDIMENT IN ACCORDANCE WITH SOIL EROSION AND SEDIMENT CONTROL NOTE #13 THIS DRAWING.
11. AS STORM STRUCTURES ARE BEING INSTALLED, PROVIDE TEMPORARY STORM SEWER INLET PROTECTION PER DETAIL AT ALL GRATED STORM SEWER INLETS PRIOR TO CONNECTING BASINS TO NEW STORM PIPING. MAINTAIN EROSION CONTROL DEVICES IN FULLY FUNCTIONAL CONDITION THROUGHOUT CONTRACT PERIOD.
12. PROVIDE ADDITIONAL EROSION CONTROL MEASURES AS REQUIRED TO MEET NEW YORK STANDARDS OR AS REQUIRED BY SOIL CONSERVATION DISTRICT.
13. UPON OWNER APPROVAL, REMOVE TEMPORARY SOIL & EROSION CONTROL MEASURES AFTER PERMANENT MEASURES ARE IN PLACE AND FUNCTIONING EFFECTIVELY.

0 15' 30' 60'
SCALE: 1" = 30'

General Site Notes

1. REFER TO DRAWING DC100 FOR GENERAL SITE NOTES THAT APPLY TO DC-SERIES DRAWINGS.

(#) Soil Erosion & Sediment Control Key Notes

1 VEGETATION PROTECTION, (TYP.). SEE DETAIL 4 / DC502.

2 DROP-IN INLET PROTECTION, (TYP.). SEE DETAIL 1 / DC502.

3 STABILIZED CONSTRUCTION ENTRANCE. SEE DETAIL 6 / DC502

SOIL EROSION AND SEDIMENT CONTROL LEGEND

SYMBOL	DESCRIPTION
	DROP-IN INLET PROTECTION
	TREE PROTECTION
	TEMPORARY CONSTRUCTION ENTRANCE

S.E.D. Control No. 66-24-01-06-0-012-025

Rev. No.:	Date:	Description:
1	7/22/2024	REVISED FOR ALTERNATE CB-03 AND CB-04

complex world | CLEAR SOLUTIONS

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

BID SET

TETRA TECH
ARCHITECTS & ENGINEERS

Lakeland Central School District
Shrub Oak, New York

Reconstruction to:
Lakeland Copper Beech Middle School

Site Soil Erosion and Sediment Control Plan

Drawn by:	Date:	Drawing No.:
J.L.P.	10/13/2023	DC110
Project No.: 276721-23001		

1 Site Layout Plan
1" = 30'

Site Layout Keynotes

1 SMOOTH TRANSITION FROM PROPOSED SURFACE TO ADJACENT EXISTING SURFACE, (TYP.).

2 CONCRETE SIDEWALK. SEE DETAILS 1 AND 2 / DC500.

3 NEW CONCRETE WALK AT EXISTING WALK.
SEE DETAIL 6 / DC500.

4 CAST IN PLACE CONCRETE CURB AT LAWN,
SEE DETAIL 5 / DC500.

5 INTEGRAL CONCRETE CURB AT SIDEWALK. SEE DETAIL 18 / DC500.

6 HEAVY DUTY ASPHALT PAVING, SEE DETAIL 8 / DC500.

7 ASPHALT PAVING AT EXISTING ASPHALT (TYP.)
SEE DETAIL 4 / DC 500.

8 EXISTING CONCRETE SIDEWALK TO REMAIN, PROTECT.

9 "STOP" SIGN (TYPE "A") AND POST IN LAWN.
SEE DETAIL 6 AND 7 / DC501.

10 "ONE WAY" WITH ARROW SIGN AND POST IN LAWN.
SEE DETAILS 6 AND 7 / DC501.

11 "DO NOT ENTER" SIGN AND POST IN LAWN.
SEE DETAIL 6 AND 7 / DC501.

12 TRAFFIC ARROWS - PAINTED WHITE (TYP.).
SEE DETAIL 13 / DC500.

13 WHITE CROSS HATCH PAVEMENT MARKING, (TYP.).
SEE DETAIL 20 / DC500.

14 CROSSWALK - PAINTED. SEE DETAIL 11 / DC500.

15 "STOP" BAR WITH TEXT - PAINTED. SEE DETAIL 12 / DC500.

16 SEEDED AREA - 6-IN OF AMENDED TOPSOIL, FINE GRADE, SEED, FETILIZE AND MULCH. LEAVE NEAT SMOOTH EDGE (TYP.)

17 4-IN WIDE YELLOW PAINTED LINE (TYP.) SEE DETAIL 20 / DC500.

18 INLINE ACCESSIBLE RAMP WITH ACCESSIBLE WARNING SURFACE AND DROP CURB. SEE DETAILS 14 AND 17 / DC500.

19 CONCRETE PAVER WALKWAY. SEE DETAIL 19 / DC500.

20 BENCH (TYP.). TOTAL QUANTITY 13 BENCHES, SEE PROJECT MANUAL

21 ACCESSIBLE RAMP WITH ACCESSIBLE WARNING SURFACE AND DROP CURB. SEE DETAILS 14 AND 16 / DC500.

22 "WAY FINDING" SIGN AND POST IN LAWN.
SEE DETAILS 6 AND 7 / DC501.

23 PAINTED "STUDENT LOADING ZONE - NO PARKING" AND LINE STRIPING IN YELLOW. SEE DETAIL 10 / DC500.

24 ALTERNATE No.CB-02: CONCRETE SIDEWALK.
SEE DETAILS 1 AND 2 / DC500.

25 ALTERNATE No. CB-02: INTEGRAL CONCRETE CURB AT SIDEWALK.
SEE DETAIL 18 / DC500.

26 ALTERNATE No. CB-02: HEAVY DUTY ASPHALT PAVING.
SEE DETAIL 8 / DC500.

27 ALTERNATE No. CB-02: SEEDED AREA - 6-IN OF AMENDED TOPSOIL, FINE GRADE, SEED, FETILIZE AND MULCH. LEAVE NEAT SMOOTH EDGE (TYP.)

28 CONCRETE APRON AROUND STORM INLET, (TYP.).
SEE DETAIL 3 / DC501.

29 SEAL COAT PAVEMENT TO COVER EXISTING PAINT MARKINGS.

30 EXISTING CANOPY OVER SIDEWALK, PROTECT.

31 ALTERNATE No. CB-02: INLINE ACCESSIBLE RAMP WITH ACCESSIBLE WARNING SURFACE AND DROP CURB.
SEE DETAILS 14 AND 17 / DC500.

32 CONCRETE BED FOR PAVERS TO BE DOWELED IN BUILDING SLAB.
SEE DETAIL 3 / DC500.

33 ACCESSIBLE SYMBOLS WHERE INDICATED AND PARKING STALL STRIPING (TYP.). SEE DETAIL 20 / DC500.

34 "NO PARKING" SIGN AND POST IN PAVEMENT (TYP.).
SEE DETAILS 6 AND 7 / DC501.

35 6-FT. LONG TRANSITION CURB. SEE DETAIL 21 / DC500.

36 LIMIT OF ALTERNATE No. CB-02.

37 ALTERNATE No.CB-03: CONCRETE SIDEWALK.
SEE DETAILS 1 AND 2 / DC500.

38 ALTERNATE No. CB-03: INTEGRAL CONCRETE CURB AT SIDEWALK.
SEE DETAIL 18 / DC500.

39 ALTERNATE No. CB-03: HEAVY DUTY ASPHALT PAVING.
SEE DETAIL 8 / DC500.

40 ALTERNATE No. CB-03:CONCRETE SIDEWALK TO BE DOWELED IN BUILDING SLAB. REMOVE AND REINSTALL THRESHOLD TO ALLOW CONCRETE PLACEMENT AND FINISHING TO FOUNDATION.
SEE DETAIL 3 / DC500.

41 LIMIT OF ALTERNATE No. CB-03.

42 ALTERNATE No. CB-04: HEAVY DUTY ASPHALT PAVING.
SEE DETAIL 8 / DC500.

General Site Notes

1. REFER TO DRAWING DC100 FOR GENERAL SITE NOTES THAT APPLY TO ALL DC-SERIES DRAWINGS.

Site Layout Notes

1. LAYOUT DIMENSIONS GIVEN ARE FROM FACE OF BUILDING (FOB), FACE OF CURB (F.O.C.), CENTER LINE (CL) AND EDGE OF PAVEMENTS UNLESS OTHERWISE NOTED.
2. OBJECTS ARE PARALLEL OR PERPENDICULAR TO EACH OTHER UNLESS OTHERWISE NOTED.
3. PAINTED TRAFFIC MARKINGS AND TRAFFIC SIGNS TO COMPLY WITH THE LATEST EDITION OF THE NYSDOT MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES AND LOCAL REQUIREMENTS.
4. VERIFY DIMENSIONS IN FIELD WITH OWNER'S REPRESENTATIVE ANY DIMENSIONS NOTED AS "V.I.F."
5. AT EDGE OF NEW PAVING MEETING LAWN: ADD TOPSOIL ALONG EDGE OF NEW PAVING TO BRING ADJACENT GRADE FLUSH WITH EDGE OF NEW PAVING AT MAXIMUM 3% SLOPE. CUT NEAT LINE IN EXISTING LAWN AT NEW TOPSOIL LIMIT LINE. REFER TO PROJECT MANUAL SIDEWALK AND ASPHALT PAVEMENT SECTIONS FOR ADDITIONAL REQUIREMENTS.
6. SCORE CONCRETE SIDEWALKS AT 5-FT SQUARE UNLESS OTHERWISE NOTED.
7. ALL DISTURBED AREAS TO RECEIVE 6-IN TOPSOIL AND SEED UNLESS OTHERWISE NOTED.

Site Layout Legend

	CONCRETE PAVING
	ASPHALT PAVING -HEAVY DUTY
	LAWN AREA
CC	CONCRETE CURB

S.E.D. Control No. 66-24-01-06-0-012-025

Rev. No.:	Date:	Description:
1	7/22/2024	REVISED FOR ALTERNATE CB-03 AND CB-04

0 15' 30' 60'
SCALE: 1" = 30'

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

BID SET

TETRA TECH
ARCHITECTS & ENGINEERS

Lakeland Central School District
Shrub Oak, New York

Reconstruction to:
Lakeland Copper Beech Middle School

Site Layout Plan

Drawn by:	Date:	Drawing No.:
J.L.P.	10/13/2023	DC120
Project No.: 276721-23001		

1 Site Grading Plan
1" = 30'

Site Grading Plan Keynotes

1 LIMIT OF ALTERNATE No. CB-02.

2 LIMIT OF ALTERNATE No. CB-03.

3 LIMIT OF ALTERNATE No. CB-04.

General Site Notes

1. REFER TO DRAWING DC100 FOR GENERAL SITE NOTES THAT APPLY TO ALL DC-SERIES DRAWINGS.

General Grading Plan Notes

1. ALL FILL MATERIALS, INCLUDING ON-SITE MATERIALS, ARE TO BE SUBMITTED FOR ARCHITECT APPROVAL BEFORE PLACEMENT. REFER TO EARTH MOVING SPECIFICATION FOR REQUIREMENTS.
2. ALL CUT OR FILL SLOPES SHALL BE 3:1 OR FLATTER UNLESS OTHERWISE NOTED.
3. EXCESS MATERIAL CUT FROM THE SITE (WITH THE EXCEPTION OF TOPSOIL) SHALL BE REMOVED FROM THE SITE AND LEGALLY DISPOSED OF PER THE PROJECT MANUAL.
4. OWNER'S GEOTECHNICAL ENGINEER TO BE PRESENT FOR ALL FILL AND COMPACTION OPERATIONS, INCLUDING TRENCHES AND STORMWATER STRUCTURES. REFER TO EARTH MOVING SPECIFICATION FOR GEOTECHNICAL TESTING REQUIREMENTS.
5. CONTRACTOR SHALL ASSURE POSITIVE DRAINAGE AWAY FROM BUILDINGS AND STRUCTURES FOR NATURAL AND PAVED AREAS.
6. SPREAD TOPSOIL TO A MINIMUM DEPTH OF 6-INCHES CONTINUOUS SETTLED DEPTH OVER AREAS OF THE SITE WHERE EARTH HAS BEEN DISTURBED, EXCEPT WHERE BUILDING OR PAVING IS PROPOSED.
7. DISTURBED AREAS THAT ARE NOT RECEIVING PAVEMENT SHALL BE FINE GRADED, SEEDED OR SODDED, FERTILIZED AND MULCHED AS PER THE PROJECT MANUAL.
8. AFTER FINE GRADING IS COMPLETED, INFORM THE OWNER AND A/E SO THAT AN INSPECTION OF THE FINE GRADING CAN TAKE PLACE BEFORE SEEDING IS BEGUN. IF INSPECTION DOES NOT TAKE PLACE, APPROVAL OF LAWN MAY BE DELAYED OR DENIED.
9. PROVIDE GRADE ADJUSTING RINGS OR SHIMS AT DROP-INLETS, CATCH BASINS AND MANHOLES IN AREAS SCHEDULED FOR REPAVING OR REGRADING TO BRING RIMS UP TO LEVEL OF NEW FINISHED GRADE.
10. EXISTING AND PROPOSED GRADE CONTOUR INTERVALS SHOWN AT 1-FOOT INTERVALS.
11. ALL STORM SEWER MANHOLES IN PAVED AREAS SHALL BE FLUSH WITH PAVEMENT, AND SHALL HAVE TRAFFIC BEARING LIDS.
12. IF APPLICABLE, THE CONTRACTOR SHALL ADHERE TO ALL TERMS & CONDITIONS AS OUTLINED IN THE GENERAL NEW YORK STATE S.P.D.E.S. PERMIT AND PROJECT S.W.P.P.P. FOR STORMWATER DISCHARGE ASSOCIATED WITH CONSTRUCTION ACTIVITIES.
13. CONTRACTOR SHALL ADJUST AND/OR CUT EXISTING PAVEMENT AS NECESSARY TO ASSURE A SMOOTH FIT AND CONTINUOUS GRADE.
14. CONSTRUCTION SHALL COMPLY WITH ALL APPLICABLE GOVERNING CODES AND BE CONSTRUCTED TO SAME.

GRADING KEY	
TC	TOP OF CURB
BC	BOTTOM OF CURB
+	SPOT ELEVATION
HP	HIGH POINT
MATCH	MATCH EXISTING GRADE

ADA Site Notes

1. THE MAXIMUM SLOPE OF ACCESSIBLE PARKING STALLS AND ASSOCIATED ACCESS AISLE SHALL BE 2% (1V:50H).
2. THE MAXIMUM SLOPE IN THE DIRECTION OF TRAVEL ON ACCESSIBLE PATHS SHALL BE 5% (1V:20H).
3. THE MAXIMUM CROSS SLOPE ON ACCESSIBLE PATHS SHALL BE 2% (1V:50H).
4. THE MAXIMUM SLOPE IN THE DIRECTION OF TRAVEL ON ACCESSIBLE RAMPS AND CURB RAMPS SHALL BE 8.33% (1V:12H), AS INDICATED ON THE DETAILS.
5. GROUND SURFACES ON ACCESSIBLE PATHS SHALL BE STABLE, FIRM, AND SLIP RESISTANT.

S.E.D. Control No. 66-24-01-06-0-012-025

Rev. No.:	Date:	Description:
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Tetra Tech Engineers, Architects & Landscape Architects, P.C.

BID SET

TETRA TECH ARCHITECTS & ENGINEERS

Lakeland Central School District
Shrub Oak, New York

Reconstruction to:
Lakeland Copper Beech Middle School

Site Grading Plan

Drawn by:	Date:	Drawing No.:
J.L.P.	10/13/2023	DC130
Project No.: 276721-23001		

1 Site Utility Plan
1" = 30'

0 15' 30' 60'
SCALE: 1" = 30'

Site Utility and Drainage Keynotes

1 FIRE HYDRANT. SEE DETAIL 9 / DC502.

2 18 LF 6-IN WATER LINE. SEE DETAIL 1 / DC501.

3 INSTALL 15-FT INDIVIDUAL LENGTHS OF 4-IN PERFORATED HDPE UNDER DRAIN IN LOCATION SHOWN SLOPE = 0.50%. (TYP.). SEE DETAIL 15 / DC500 FOR ASPHALT PAVING WITH UNDERDRAIN BEDDING REQUIREMENTS. (TYP.)

4 DOWN SPOUT CONNECTION INVERT = 528.40. SEE DETAIL 2 / DC501.

5 DOWN SPOUT CONNECTION INVERT = 529.20. SEE DETAIL 2 / DC501.

6 DOWN SPOUT CONNECTION INVERT = 529.10. SEE DETAIL 2 / DC501.

7 DOWN SPOUT CONNECTION INVERT = 528.50. SEE DETAIL 2 / DC501.

8 DOWN SPOUT CONNECTION INVERT = 529.15. SEE DETAIL 2 / DC501.

9 DOWN SPOUT CONNECTION INVERT = 529.65. SEE DETAIL 2 / DC501.

10 DOWN SPOUT CONNECTION INVERT = 528.80. SEE DETAIL 2 / DC501.

11 DOWN SPOUT CONNECTION INVERT = 528.70. SEE DETAIL 2 / DC501.

12 DOWN SPOUT CONNECTION INVERT = 528.45. SEE DETAIL 2 / DC501.

13 ALTERNATE No. CB-02: RESET EXISTING SEWER MANHOLE RIM = 528.90, IN CONCRETE PAVEMENT.

14 LIMIT OF ALTERNATE No. CB-02.

15 TAPPING SLEEVE AND VALVE. CONTRACTOR TO VERIFY IN THE FIELD THE SIZE OF EXISTING WATER MAIN.

16 STUB DP-22 INVERT=527.10.

17 ALTERNATE No. CB-04: INSTALL DP-22.

18 ALTERNATE No. CB-04: CONNECT DP-22 TO EXISTING CB.

19 LIMIT OF ALTERNATE No. CB-03.

20 8 FT. X 30 FT. DRAINAGE STONE.

21 7 FT. X 22 FT. DRAINAGE STONE.

22 6 FT. X 20 FT. X 22 FT. DRAINAGE STONE.

23 6 FT. X 35 FT. DRAINAGE STONE.

Storm Drainage Structure Schedule

ID		STRUCTURE TYPE		CONNECTION DATA	
DS-1	:	6' INSIDE DIAMETER DRYWELL	@	TOP OF GRATE =	530.80
				(NE) 6" INVERT IN =	528.30
				(SW) 6" INVERT OUT =	528.30
(SEE DETAIL 8 / DC501)				BOTTOM =	525.30
DS-2	:	6' INSIDE DIAMETER DRYWELL	@	TOP OF GRATE =	530.80
				(SW) 6" INVERT IN =	528.30
				(NE) 6" INVERT IN =	528.30
				(S) 6" INVERT OUT =	528.30
(SEE DETAIL 8 / DC501)				BOTTOM =	525.30
DS-3	:	5' INSIDE DIAMETER DRYWELL	@	TOP OF GRATE =	530.50
				(N) 6" INVERT IN =	528.00
				(E) 6" INVERT OUT =	528.00
(SEE DETAIL 9 / DC501)				BOTTOM =	525.00
DS-4	:	5' INSIDE DIAMETER DRYWELL	@	TOP OF GRATE =	530.50
				(N) 6" INVERT IN =	528.00
				(W) 6" INVERT IN =	528.00
				(E) 6" INVERT IN =	528.00
				(S) 6" INVERT OUT =	528.00
(SEE DETAIL 9 / DC501)				BOTTOM =	525.00
DS-5	:	4' INSIDE DIAMETER DRYWELL	@	TOP OF GRATE =	530.40
				(SW) 6" INVERT IN =	527.90
				(S) 6" INVERT IN =	527.90
				(E) 6" INVERT OUT =	527.90
(SEE DETAIL 4 / DC501)				BOTTOM =	524.90
DS-6	:	4' INSIDE DIAMETER DRYWELL	@	TOP OF GRATE =	530.40
				(S) 6" INVERT IN =	527.90
				(W) 6" INVERT IN =	527.90
				(E) 6" INVERT IN =	527.90
				(N) 6" INVERT OUT =	527.90
(SEE DETAIL 4 / DC501)				BOTTOM =	524.90
DS-7	:	4' INSIDE DIAMETER DRYWELL	@	TOP OF GRATE =	530.60
				(NW) 6" INVERT IN =	528.10
				(S) 6" INVERT IN =	528.10
				(N) 6" INVERT OUT =	528.10
(SEE DETAIL 4 / DC501)				BOTTOM =	525.10
DS-8	:	4' INSIDE DIAMETER DRYWELL	@	TOP OF GRATE =	530.75
				(E) 6" INVERT IN =	528.25
				(N) 6" INVERT OUT =	528.25
(SEE DETAIL 4 / DC501)				BOTTOM =	525.25
DS-9	:	4' DIA. CONCRETE CATCH BASIN	@	TOP OF GRATE =	521.30
				(NW) 4" UD INVERT IN =	519.00
				(SW) 4" UD INVERT IN =	519.00
				(SE) 4" UD INVERT IN =	519.00
(SEE DETAIL 5 / DC501)				(SE) 12" INVERT OUT =	516.40
DS-10	:	4' DIA. CONCRETE CATCH BASIN	@	TOP OF GRATE =	518.50
				(N) 4" UD INVERT IN =	517.50
				(NW) 4" UD INVERT IN =	517.50
				(E) 4" UD INVERT IN =	517.50
(SEE DETAIL 5 / DC501)				(NE) 12" INVERT OUT =	515.30
DS-11	:	4' DIA. CONCRETE CATCH BASIN	@	TOP OF GRATE =	505.90
				(SW) 4" UD INVERT IN =	504.00
				(S) 4" UD INVERT IN =	504.00
				(S) 12" INVERT IN =	502.40
(SEE DETAIL 5 / DC501)				(N) 15" INVERT OUT =	502.40
DS-12	:	4' DIA. CONCRETE CATCH BASIN	@	TOP OF GRATE =	505.80
				(N) 4" UD INVERT IN =	503.80
				(NW) 4" UD INVERT IN =	503.80
				(SW) EX 12" INVERT IN =	502.10
(SEE DETAIL 5 / DC501)				(N) 12" INVERT OUT =	502.70
DS-13	:	5' DIAMETER DRAIN MANHOLE	@	TOP OF RIM =	517.10
		REPLACE EXISTING STRUCTURE		(N) EX 18" INVERT IN =	511.10
				(W) 12" INVERT IN =	514.65
				(S) 12" INVERT IN =	514.65
				(E) EX 18" INVERT OUT =	511.10
DS-14	:	EXISTING DRAIN MANHOLE	@	TOP OF RIM =	506.65
				(SW) EX 18" INVERT IN =	502.10
				(S) 15" INVERT IN =	502.10
				(N) EX 18" INVERT OUT =	502.10
DS-15	:	4' INSIDE DIAMETER DRYWELL	@	TOP OF GRATE =	530.30
				(N) 6" INVERT IN =	527.80
				(S) 6" INVERT IN =	527.80
				(E) 12" INVERT OUT =	527.80
(SEE DETAIL 4 / DC501)				BOTTOM =	520.80
DS-16	:	EXISTING DRAIN CATCH BASIN	@	TOP OF RIM =	523.67
				(N) EX 12" INVERT IN =	519.60
				(W) 12" INVERT IN =	519.95
				(S) EX 12" INVERT OUT =	519.60

Storm Drainage Piping Schedule

ID		LENGTH			SIZE/MATERIAL		SLOPE	Description
DP-1	:	15	LF	OF	6" HDPE PIPE	@	0.67%	Storm Line *
DP-2	:	15	LF	OF	6" HDPE PIPE	@	0.00%	Storm Line *
DP-3	:	29	LF	OF	6" HDPE PIPE	@	3.10%	Storm Line *
DP-4	:	18	LF	OF	6" HDPE PIPE	@	6.10%	Storm Line *
DP-5	:	10	LF	OF	6" HDPE PIPE	@	0.00%	Storm Line *
DP-6	:	14	LF	OF	6" HDPE PIPE	@	3.60%	Storm Line *
DP-7	:	14	LF	OF	6" HDPE PIPE	@	0.70%	Storm Line *
DP-8	:	11	LF	OF	6" HDPE PIPE	@	0.00%	Storm Line *
DP-9	:	35	LF	OF	6" HDPE PIPE	@	5.00%	Storm Line *
DP-10	:	18	LF	OF	6" HDPE PIPE	@	5.00%	Storm Line *
DP-11	:	12	LF	OF	6" HDPE PIPE	@	5.00%	Storm Line *
DP-12	:	25	LF	OF	6" HDPE PIPE	@	0.60%	Storm Line *
DP-13	:	8	LF	OF	6" HDPE PIPE	@	0.60%	Storm Line *
DP-14	:	35	LF	OF	12" HDPE PIPE	@	5.00%	Storm Line *
DP-15	:	32	LF	OF	12" HDPE PIPE	@	2.00%	Storm Line *
DP-16	:	30	LF	OF	12" HDPE PIPE	@	1.00%	Storm Line *
DP-17	:	24	LF	OF	15" HDPE PIPE	@	1.20%	Storm Line *
DP-18	:	55	LF	OF	6" HDPE PIPE	@	0.55%	Storm Line *
DP-19	:	34	LF	OF	6" HDPE PIPE	@	0.60%	Storm Line *
DP-20	:	17	LF	OF	6" HDPE PIPE	@	0.60%	Storm Line *
DP-21	:	36	LF	OF	6" HDPE PIPE	@	0.55%	Storm Line *
DP-22	:	157	LF	OF	12" HDPE PIPE	@	5.00%	Storm Line *

* SEE PIPE TRENCH DETAIL 1 / DC501 FOR BEDDING REQUIREMENTS.

General Site Notes

1. REFER TO DRAWING DC100 FOR GENERAL SITE NOTES THAT APPLY TO ALL DC-SERIES DRAWINGS.

General Utility Plan Notes

1. CONTRACTOR IS RESPONSIBLE FOR REPAIRS OR DAMAGE TO ANY EXISTING UTILITY DURING CONSTRUCTION AT NO COST TO THE OWNER.
2. SEE PROJECT MANUAL FOR BACKFILLING AND COMPACTION REQUIREMENTS FOR UTILITY TRENCHES.
3. FILL MATERIAL IS TO BE IN PLACE AND COMPACTED BEFORE INSTALLATION OF PROPOSED UTILITIES.
4. ALL WATER AND OTHER UTILITIES SHOULD BE KEPT TEN-FEET 10-FTJAPART(PARALLEL)OR WITH 18 INCH CLEARANCE WHEN CROSSING VERTICALLY(OUTSIDE EDGE OF PIPE TO OUTSIDE EDGE OF PIPE.)
5. LINES UNDERGROUND SHALL BE INSTALLED, INSPECTED AND APPROVED BEFORE BACKFILLING.
6. TOPS OF EXISTING MANHOLES, DRAINAGE INLETS, HYDRANTS AND WATER LINE VALVE BOXES SHALL BE RAISED AS NECESSARY TO BE FLUSH WITH PROPOSED PAVEMENT ELEVATIONS.
7. DRAWINGS DO NOT PURPORT TO SHOW ALL EXISTING UTILITIES.
8. EXISTING UTILITIES SHALL BE VERIFIED IN FIELD PRIOR TO INSTALLATION OF ANY NEW LINES.
9. THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND/OR MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. CONTRACTOR TO REFER TO PROJECT MANUAL REGARDING COORDINATION WITH UTILITY COMPANIES BEFORE ANY EXCAVATION REGARDING FIELD LOCATION OF UTILITIES.
10. THE CONTRACTOR SHALL CONDUCT REQUIRED TESTS TO THE SATISFACTION OF THE RESPECTIVE UTILITY COMPANIES AND THE OWNER'S INSPECTING AUTHORITIES.
11. CONTRACTOR SHALL COMPLY TO THE FULLEST EXTENT WITH THE LATEST STANDARDS OF OSHA DIRECTIVES OR ANY OTHER AGENCY HAVING JURISDICTION FOR EXCAVATION AND TRENCHING PROCEDURES. THE CONTRACTOR SHALL USE SUPPORT SYSTEMS, SLOPING, BENCHING, AND OTHER MEANS OF PROTECTION. THIS TO INCLUDE BUT IS NOT LIMITED TO ACCESS AND EGRESS FROM ALL EXCAVATION AND TRENCHING. CONTRACTOR IS RESPONSIBLE TO COMPLY WITH PERFORMANCE CRITERIA FOR OSHA.
12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DEWATERING, PUMPING AND TREATMENT OF WATER. NO WATER FROM ANY CONSTRUCTION WORK, PROCESS OR AREA SHALL BE RELEASED DOWN STREAM OR INTO STORM SYSTEMS WITH OUT FIRST BEING TREATED TO REMOVE SEDIMENT, OILS, OR OTHER POLLUTANTS.
13. CONTRACTOR MUST COORDINATE WITH SITE ENGINEER TO CONDUCT SOIL EXPLORATORY EXCAVATIONS TO DETERMINE HIGH GROUNDWATER TABLE AND SUITABLE DEPTHS OF DRYWELL STRUCTURES.

Site Utility Legend

- W — WATER LINE
- ST — STORM DRAIN LINE
- ■ CATCH BASIN
- ◉ DRYWELL

S.E.D. Control No. 66-24-01-06-0-012-025

Rev. No.:	Date:	Description:
1	7/22/2024	REVISED FOR ALTERNATE CB-03 AND CB-04

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

BID SET

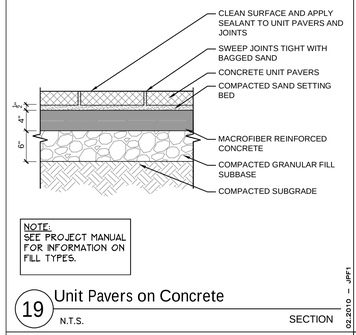
TETRA TECH
ARCHITECTS & ENGINEERS

Lakeland Central School District
Shrub Oak, New York

Reconstruction to:
Lakeland Copper Beech Middle School

Site Utility Plan

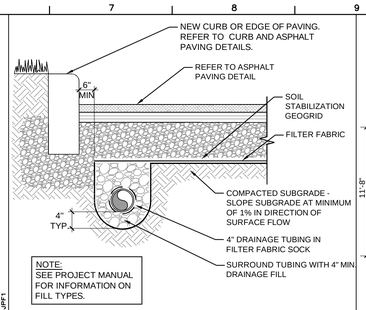
Drawn by:	Date:	Drawing No.:
J.L.P.	10/13/2023	DC140
Project No.:		
276721-23001		



NOTE:
SEE PROJECT MANUAL FOR INFORMATION ON FILL TYPES.

19 Unit Pavers on Concrete
N.T.S. SECTION

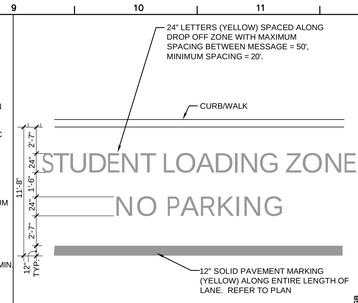
02.2010 – JFP1



NOTE:
SEE PROJECT MANUAL FOR INFORMATION ON FILL TYPES.

15 Asphalt Paving with Underdrain
NTS SECTION

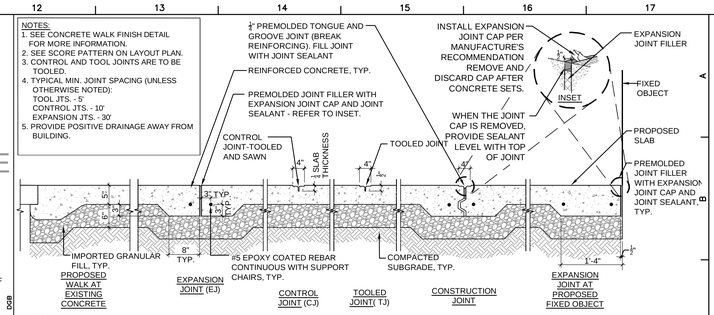
02.2010 – JFP1



10 Student Loading Zone - Painted
NTS

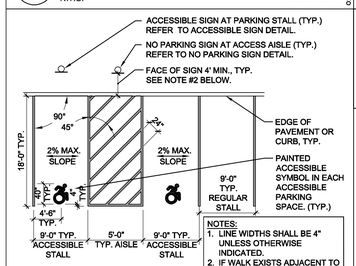
10.2020 – DGB

NOTES:
1. SEE CONCRETE WALK FINISH DETAIL FOR MORE INFORMATION.
2. SEE SCORE PATTERN ON LAYOUT PLAN.
3. CONTROL AND TOOL JOINTS ARE TO BE TOOLED.
4. TYPICAL MIN. JOINT SPACING (UNLESS OTHERWISE NOTED): TOOL JTS. - 5' CONTROL JTS. - 10' EXPANSION JTS. - 30'
5. PROVIDE POSITIVE DRAINAGE AWAY FROM BUILDING.



1 Concrete Walk
NTS

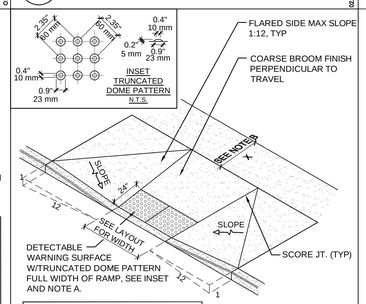
10.2020 – DGB



NOTES:
1. LINE WIDTHS SHALL BE 4" UNLESS OTHERWISE INDICATED.
2. IF WALK EXISTS ADJACENT TO PVMT. , INSTALL SIGNS 6" BEYOND EDGE OF WALK IN LAWN.
3. REFER TO PROJECT MANUAL SECTION 10 14 53, TRAFFIC SIGNAGE FOR ADDITIONAL INFORMATION.

20 Parking Stall Striping
NTS

2012&09

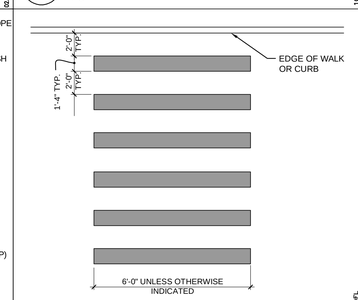


NOTE A:
DETECTABLE WARNING SURFACE SHALL CONTRAST VISUALLY WITH ADJOINING SURFACES, EITHER LIGHT ON DARK OR DARK ON LIGHT

NOTE B:
IF "X" IS LESS THAN 48" THE SLOPE OF THE FLARED SIDES SHALL NOT EXCEED 1:12.

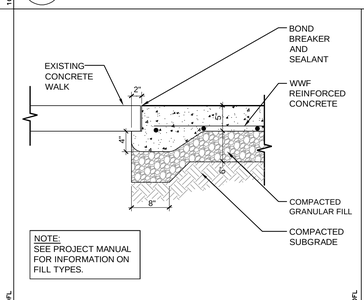
NOTE C:
REFER TO CURB CUT SECTION DETAILS.

DETECTABLE WARNING SURFACE NOTES:
1. INSTALL PER MFG. INSTALLATION INSTRUCTIONS.
2. REMOVE ALL EXCESS CONCRETE FROM PLATES.
3. SEAL JOINTS OVER ¼" WITH JOINT SEALANT.



11 Painted Crosswalk
N.T.S.

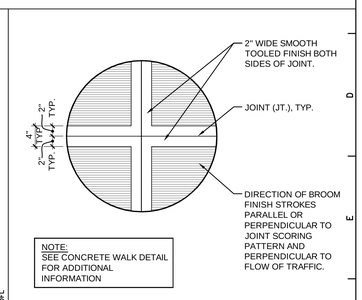
12.2008 – DFL



NOTE:
SEE PROJECT MANUAL FOR INFORMATION ON FILL TYPES.

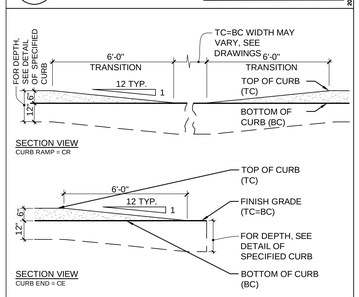
6 New Concrete Walk at Existing Walk
NTS

06.2009 – DFL



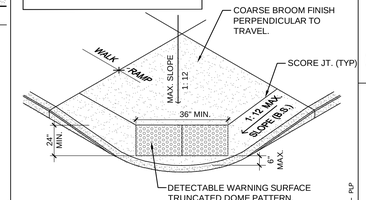
NOTE:
SEE CONCRETE WALK DETAIL FOR ADDITIONAL INFORMATION

2 Concrete Finish
NTS



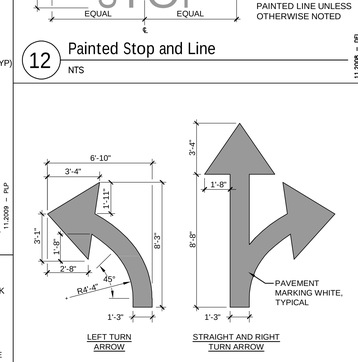
21 Curb Drop
NTS

10.2008 – DFL



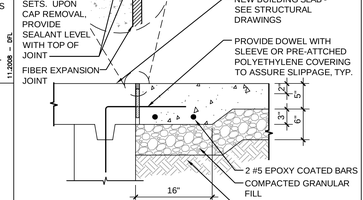
16 Accessible Curb Ramp
NTS

11.2009 – RLP



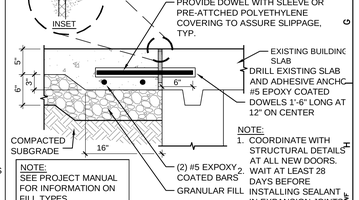
12 Painted Stop and Line
NTS

11.2008 – DFL



7 Expansion Joint at New Slab
N.T.S.

04-2018 – TWF



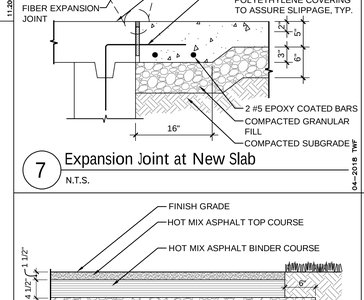
NOTE:
SEE PROJECT MANUAL FOR INFORMATION ON FILL TYPES.

3 Expansion Joint at Existing Slab
NTS

04-2018 – TWF

13 Traffic Arrows - Painted
NTS

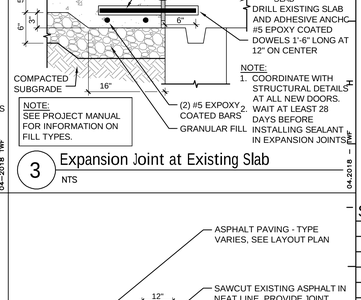
11.2008 – DFL



NOTE:
SEE PROJECT MANUAL FOR INFORMATION ON FILL TYPES.

8 Asphalt Paving - Heavy Duty
NTS SECTION

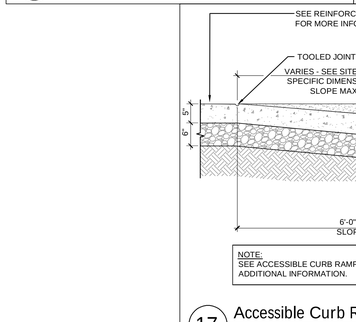
07.2010 – DFL



NOTE:
SEE PROJECT MANUAL FOR INFORMATION ON FILL TYPES.

4 Asphalt Paving at Existing Asphalt
NTS SECTION

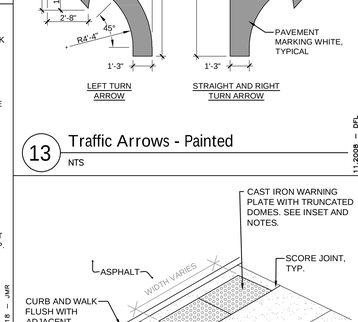
07.2010 – DFL



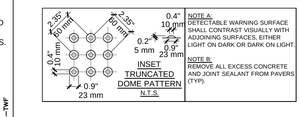
NOTE:
SEE ACCESSIBLE CURB RAMP DETAIL FOR ADDITIONAL INFORMATION.

17 Accessible Curb Ramp Section
NTS

10.2018 – JMR

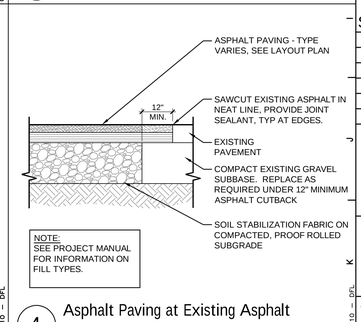


CAST IRON WARNING PLATE INSTALLATION NOTES:
1. INSTALL PER MFG. INSTALLATION INSTRUCTIONS.
2. REMOVE ALL EXCESS CONCRETE FROM PLATES.
3. SEAL JOINTS OVER ¼" WITH JOINT SEALANT.



14 Accessible Det. Warning at Walk End
N.T.S.

04-2013 – RLP

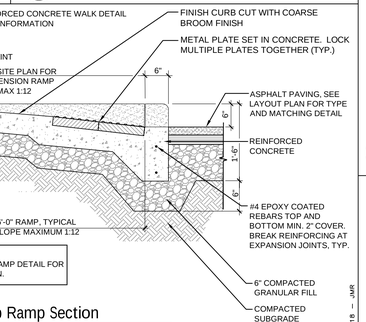


9 Detail Not Used
NTS

03.2019 – JMR

5 Concrete Curb at Lawn
N.T.S.

10.2008 – RLP



NOTE:
SEE CONCRETE WALK DETAIL FOR MORE INFORMATION

18 Concrete Curb - Integral
NTS

05.07.2018 – TWF

S.E.D. Control No. 66-24-01-06-0-012-025

Rev. No.:	Date:	Description:

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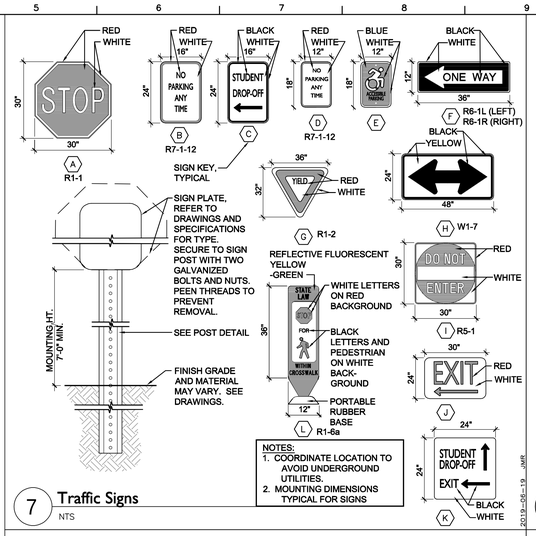
ARCHITECTS & ENGINEERS

Lakeland Central School District
Shrub Oak, New York

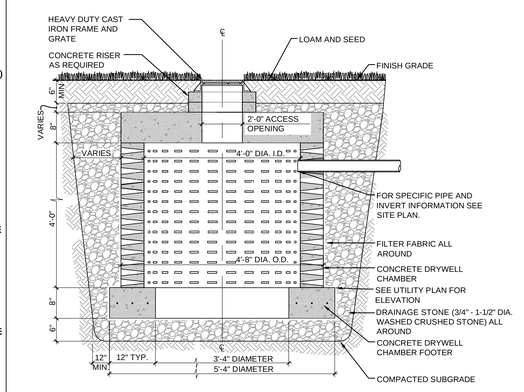
Reconstruction to:
Lakeland Copper Beech Middle School

Site Details

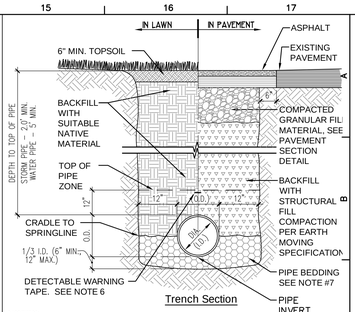
Drawn by:	Date:	Drawing No.:
J.L.P.	10/13/2023	DC500
Project No.:		
276721-23001		



7 Traffic Signs
NTS



4 Drywell - 4' Diameter
NTS

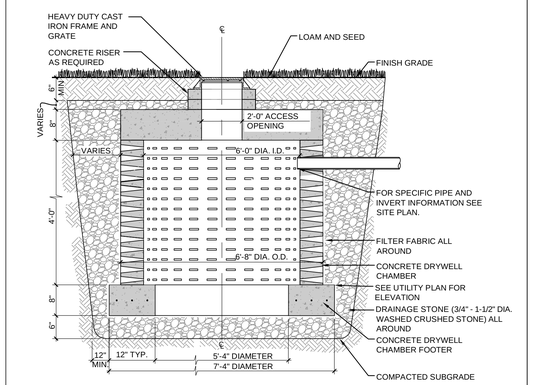


NOTES:
1. PIPE INSTALLATION SHALL BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
2. TRENCHING OPERATIONS SHALL INCLUDE SHORING AND DEWATERING.
3. TRENCH DETAILS ARE ONLY SHOWN FOR PURPOSES OF MATERIAL PLACEMENT AND MAXIMUM PAY LIMITS. THICKNESSES INDICATED ARE MINIMUMS. WHERE EXISTING CONDITIONS EXCEED THOSE SHOWN, MATCH EXISTING.
4. MOVABLE PROTECTIVE TRENCH SHIELDS SHALL BE USED IN UNSHEETED TRENCH AREAS AS REQUIRED BY OSHA REGULATIONS.
5. MINIMUM BURY DEPTHS SHOWN ABOVE APPLY UNLESS OTHERWISE INDICATED.
6. PROVIDE DETECTABLE WARNING TAPE AS SPECIFIED.
7. PIPE BEDDING SHALL BE:

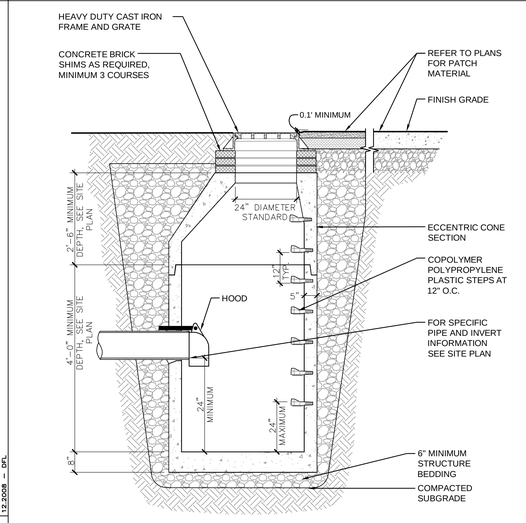
STORM - USE STRUCTURAL FILL OR APPROVED FILL MATERIAL IN PIPE ZONE.

WATER - USE CRUSHED STONE IN PIPE CRADLE. USE MATERIAL EXCAVATED FROM TRENCH WITH 6" AND LARGER STONE REMOVED IN REMAINING PIPE ZONE.

1 Pipe Trench
NTS

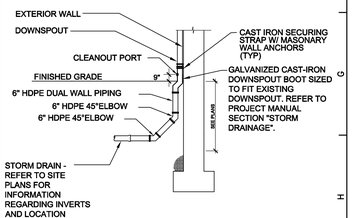


8 Drywell - 6' Diameter
NTS

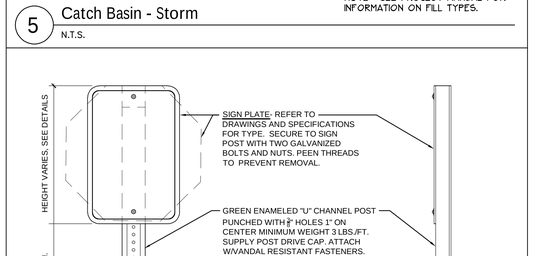


5 Catch Basin - Storm
N.T.S.

NOTE: SEE PROJECT MANUAL FOR INFORMATION ON FILL TYPES.

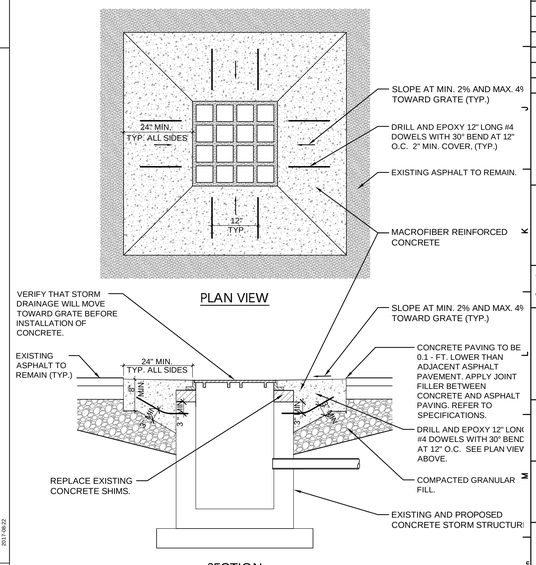


2 Downspout Boot
NTS



6 Sign "U" Channel Post in Lawn - Breakaway Mount
NTS

9 Drywell - 5' Diameter
NTS



3 Storm Catch Basin with Concrete Apron
NTS

S.E.D. Control No. 66-24-01-06-0-012-025

Rev. No.:	Date:	Description:

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J.L.P.	10/13/2023	DC501
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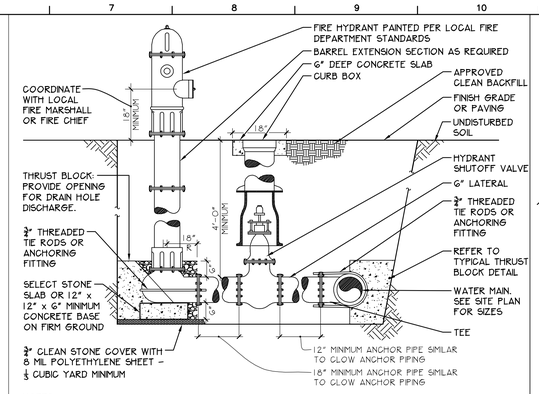
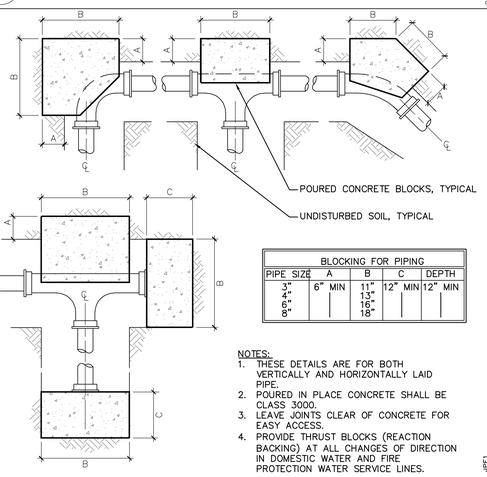


NOTES:
1. RETAINER GLANDS AND CONCRETE THRUST BLOCKS OR TIE RODS AND CONCRETE THRUST BLOCKS SHALL BE USED AT ALL LOCATIONS WHERE RESTRAINTS ARE REQUIRED.
2. IF GROUNDWATER IS ENCOUNTERED WITHIN 7 FEET OF GRADE, HYDRANT DRAIN HOLES SHALL BE MECHANICALLY PLUGGED. WHEN DRAINS ARE PLUGGED THE BARRELS MUST BE PUMPED DRY AFTER USE DURING FREEZING WEATHER. WHERE HYDRANTS ARE NOT PLUGGED A GRAVEL POCKET OR DRYWELL SHALL BE PROVIDED UNLESS THE NATURAL SOILS WILL PROVIDE ADEQUATE DRAINAGE.

9 Fire Hydrant Assembly
N.T.S.

03.2010 – JPF1

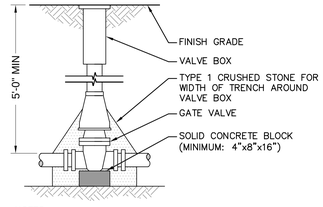


BLOCKING FOR PIPING				
PIPE SIZE	A	B	C	DEPTH
3"	6" MIN	11"	12" MIN	12" MIN
4"		13"		
6"		16"		
8"		18"		

NOTES:
1. THESE DETAILS ARE FOR BOTH VERTICALLY AND HORIZONTALLY LAID PIPE.
2. POURED IN PLACE CONCRETE SHALL BE CLASS 3000.
3. LEAVE JOINTS CLEAR OF CONCRETE FOR EASY ACCESS.
4. PROVIDE THRUST BLOCKS (REACTION BACKING) AT ALL CHANGES OF DIRECTION IN DOMESTIC WATER AND FIRE PROTECTION WATER SERVICE LINES.

10 Typical Thrust Block
N.T.S.

03.2010 – JPF1



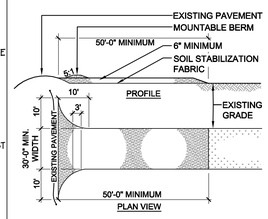
NOTES:
1. VALVE BOX SHALL BE CENTERED ON VALVE AND SET ON COMPACTED BACKFILL.
2. VALVE SHALL NOT SUPPORT VALVE BOX.
3. ALL BODY AND BONNET BOLTS SHALL BE STAINLESS STEEL.
4. ALL VALVES SHALL BE OPEN LEFT EXCEPT VALVES 12" AND SMALLER.

11 Gate Valve
N.T.S.

03.2010 – JPF1

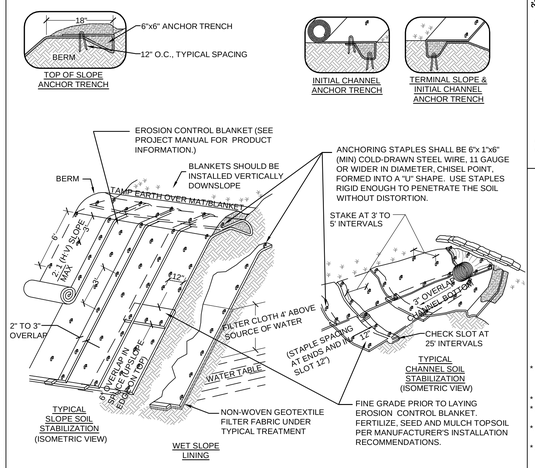
CONSTRUCTION SPECIFICATIONS

1. STONE SIZE - USE NO. 4 STONE OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
2. LENGTH - AS REQUIRED BUT NOT LESS THAN 50'.
3. THICKNESS - NOT LESS THAN SIX (6) INCHES.
4. WIDTH - THIRTY (30) FEET MINIMUM BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE EGRESS OCCURS.
5. SOIL STABILIZATION FABRIC - WILL BE PLACED OVER ENTIRE AREA PRIOR TO PLACEMENT OF STONE.
6. SURFACE WATER - SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH A 5H:1V SLOPE SHALL BE CONSTRUCTED.
7. MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY SHALL BE REMOVED IMMEDIATELY.
8. WASHING - WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO EXIT ONTO PUBLIC RIGHTS-OF-WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE, WHICH DRAINS INTO AN ARCHITECT APPROVED SEDIMENT TRAPPING DEVICE.
9. REGULAR INSPECTION AND MAINTENANCE SHALL BE PROVIDED AS REQUIRED.

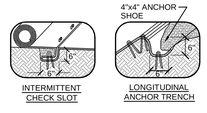


NOTE:
PROVIDE THE STABILIZED CONSTRUCTION ENTRANCE PER DETAIL AT ENTRANCE WHERE INDICATED ON PLANS. VERIFY LOCATION IN FIELD WITH ARCHITECT PRIOR TO CONSTRUCTION.

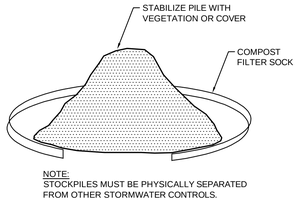
6 Stabilized Construction Entrance
NTS



NOTES:
1. SLOPE SURFACE SHALL BE FREE OF ROCKS, CLODS, STICKS AND GRASS. BLANKETS SHALL HAVE GOOD SOIL CONTACT.
2. LAY BLANKETS LOOSELY AND STAPLE TO MAINTAIN DIRECT CONTACT WITH THE SOIL. DO NOT STRETCH.
3. FOR JUTE MESH APPLICATION, BIODEGRADABLE ANCHOR STAKES PER MANUFACTURER'S RECOMMENDATIONS MAY BE SUBSTITUTED FOR STAPLES.
4. CONSTRUCT CHECK SLOTS PER MANUFACTURER'S RECOMMENDATIONS.
5. STAPLING LAYOUT AS SHOWN, OR PER MANUFACTURER'S RECOMMENDATIONS.
6. INSTALL BLANKETS PER MANUFACTURER'S RECOMMENDATIONS.



7 Rolled Erosion Control Blanket - Typical
NTS (FOR GEOTEXTILE & BIODEGRADABLE APPLICATIONS)



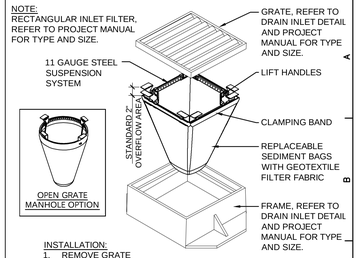
NOTE:
STOCKPILES MUST BE PHYSICALLY SEPARATED FROM OTHER STORMWATER CONTROLS.

SOIL STOCKPILES: FOR ANY STOCKPILED OR LAND CLEARING DEBRIS COMPOSED, IN WHOLE OR IN PART, OF SEDIMENT OR SOIL, THE FOLLOWING MEASURES MUST BE FOLLOWED:

- LOCATE THE PILES OUTSIDE OF ANY NATURAL BUFFERS ESTABLISHED UNDER PART 2.2.1 AND PHYSICALLY SEPARATED FROM OTHER STORMWATER CONTROLS IMPLEMENTED IN ACCORDANCE WITH PART 2.2;
- PROTECT FROM CONTACT WITH STORMWATER (INCLUDING RUN-ON) USING A TEMPORARY PERIMETER SEDIMENT BARRIER;
- PROVIDE COVER OR APPROPRIATE TEMPORARY STABILIZATION TO AVOID DIRECT CONTACT WITH PRECIPITATION OR TO MINIMIZE SEDIMENT DISCHARGE;
- DO NOT HOSE DOWN OR SWEEP SOIL OR SEDIMENT ACCUMULATED ON PAVEMENT OR OTHER IMPERVIOUS SURFACES INTO ANY STORMWATER CONVEYANCE (UNLESS CONNECTED TO A SEDIMENT BASIN, SEDIMENT TRAP, OR SIMILARLY EFFECTIVE CONTROL), STORM DRAIN INLET, OR SURFACE WATER; AND
- UNLESS INFEASIBLE, CONTAIN AND SECURELY PROTECT FROM WIND.

8 Soil Stockpile Control
NTS

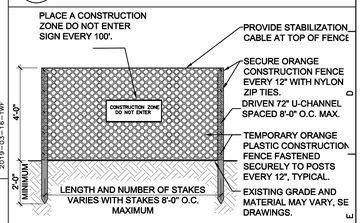
NOTE:
RECTANGULAR INLET FILTER, REFER TO PROJECT MANUAL FOR TYPE AND SIZE.



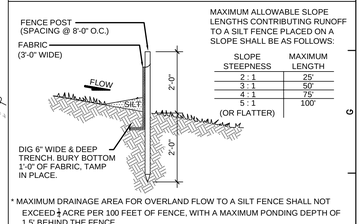
INSTALLATION:
1. REMOVE GRATE
2. DROP INLET FILTER ONTO LOAD BEARING LIP OF CASTING OR CONCRETE STRUCTURE
3. REPLACE GRATE

1 Drop Inlet Protection - Drop In Filter
NTS

2019-03-16-TWF



2 Temporary Construction Fence
NTS



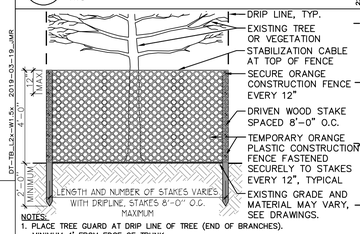
MAXIMUM ALLOWABLE SLOPE LENGTHS CONTRIBUTING RUNOFF TO A SILT FENCE PLACED ON A SLOPE SHALL BE AS FOLLOWS:

SLOPE STEEPNESS	MAXIMUM LENGTH
2 : 1	25'
3 : 1	50'
4 : 1	75'
5 : 1 (OR FLATTER)	100'

* MAXIMUM DRAINAGE AREA FOR OVERLAND FLOW TO A SILT FENCE SHALL NOT EXCEED ¼ ACRE PER 100 FEET OF FENCE, WITH A MAXIMUM PONDING DEPTH OF 1.5' BEHIND THE FENCE.
* SILT FENCE SHALL BE UTILIZED ONLY TO CAPTURE SHEET EROSION.
* CONCENTRATED FLOW OF STORMWATER RUNOFF TO THE SILT FENCE BARRIER SHALL NOT BE PERMITTED
* PLACE SILT FENCE AS CLOSE TO DISTURBANCE AREAS AS POSSIBLE, BUT AT LEAS' 10' FROM TOE OF SLOPE AREAS TO ALLOW FOR MAINTENANCE.
* WHERE ENDS OF FILTER CLOTH ADJOIN EACH OTHER, OVERLAP 6", FOLD AND STAPLE ENDS TO PREVENT SEDIMENT BYPASS FROM OCCURRING.

3 Silt Fence - Standard
NTS

2200-2014



NOTES:
1. PLACE TREE GUARD AT DRIP LINE OF TREE (END OF BRANCHES). MINIMUM 4' FROM EDGE OF TRUNK.
2. MEDIUM/LARGE TREES – CONSTRUCT AS POLYGON AROUND DRIP LINE.
3. SMALL TREES – CONSTRUCT AS SQUARE AROUND DRIP LINE, OR MINIMUM OF 4' FROM EDGE OF TRUNK, WHICHEVER IS GREATER.
4. GROUPS OF TWO OR MORE TREES, PLANT BEDS AND WOODED EDGES – CONSTRUCT AS A CONTINUOUS POLYGON AROUND COLLECTIVE DRIP LINE.

PLAN SYMBOL

4 Vegetation Protection
N.T.S.

2019-03-19-MJR

5 Detail Not Used
NTS

S.E.D. Control No. 66-24-01-06-0-012-025

Rev. No.:	Date:	Description:

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

TETRA TECH
ARCHITECTS & ENGINEERS

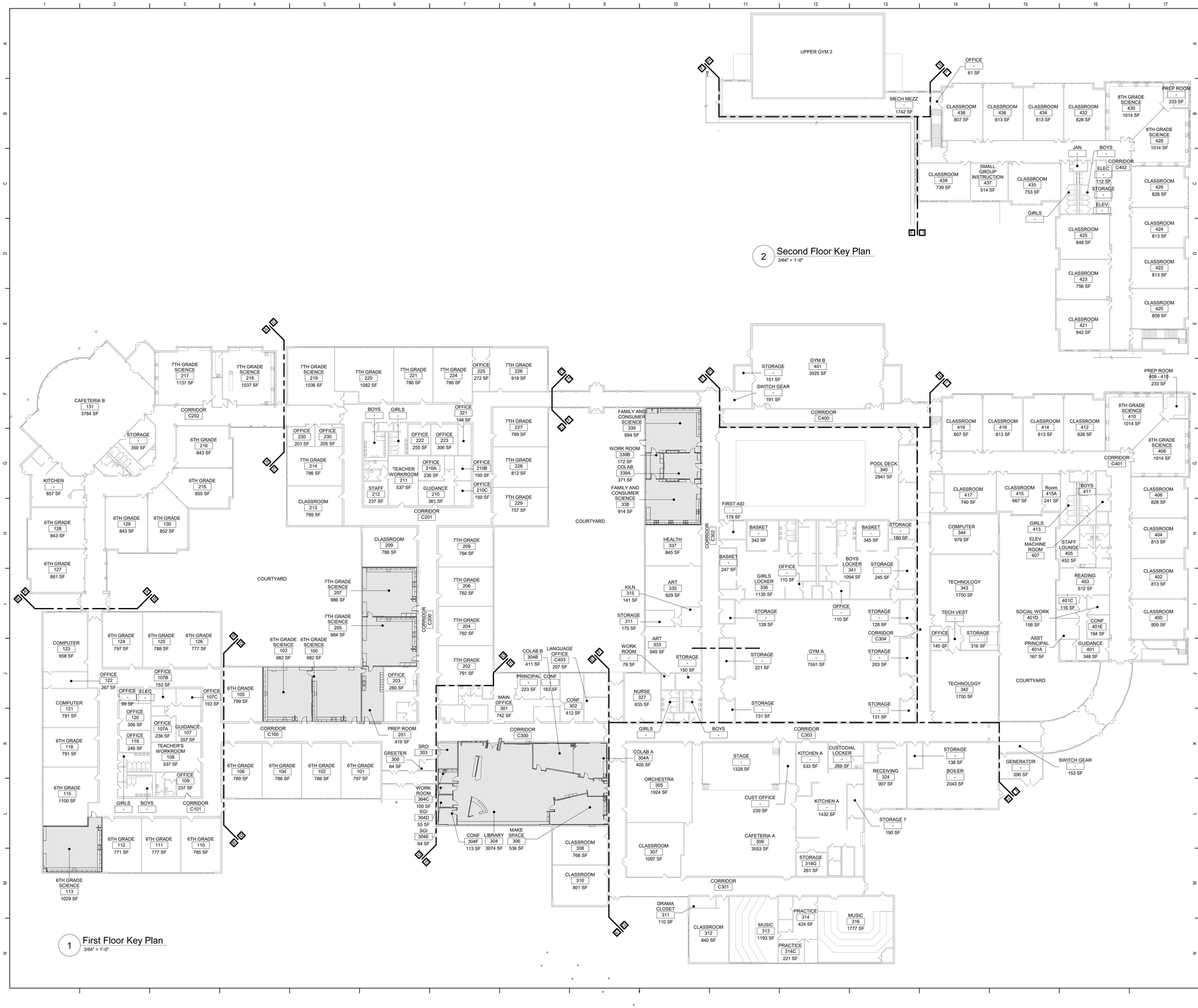
Lakeland Central School District
Shrub Oak, New York

Reconstruction to:
Lakeland Copper Beech Middle School

Site Details

Drawn by:	Date:	Drawing No.:
J.L.P.	10/13/2023	DC502
Project No.: 276721-23001		

01.2009 – JPL



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.

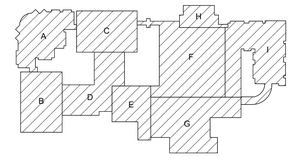
E. NOTES SHOWN ON ONE DRAWING APPLY TO ALL SIMILAR DRAWINGS.

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

G. DIMENSIONS ARE FROM FACE OF MASONRY, FROM FACE OF METAL FRAMING OR FROM FACE OF EXISTING CONSTRUCTION. TYP UNO. MASONRY DIMENSIONS ARE NOMINAL.

Key Plan Legend

INDICATES AREA OF WORK



Key Plan
N.T.S.

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S.E.D. Control No. 66-24-01-06-0-012-025

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

BID SET

TETRA TECH
ARCHITECTS & ENGINEERS

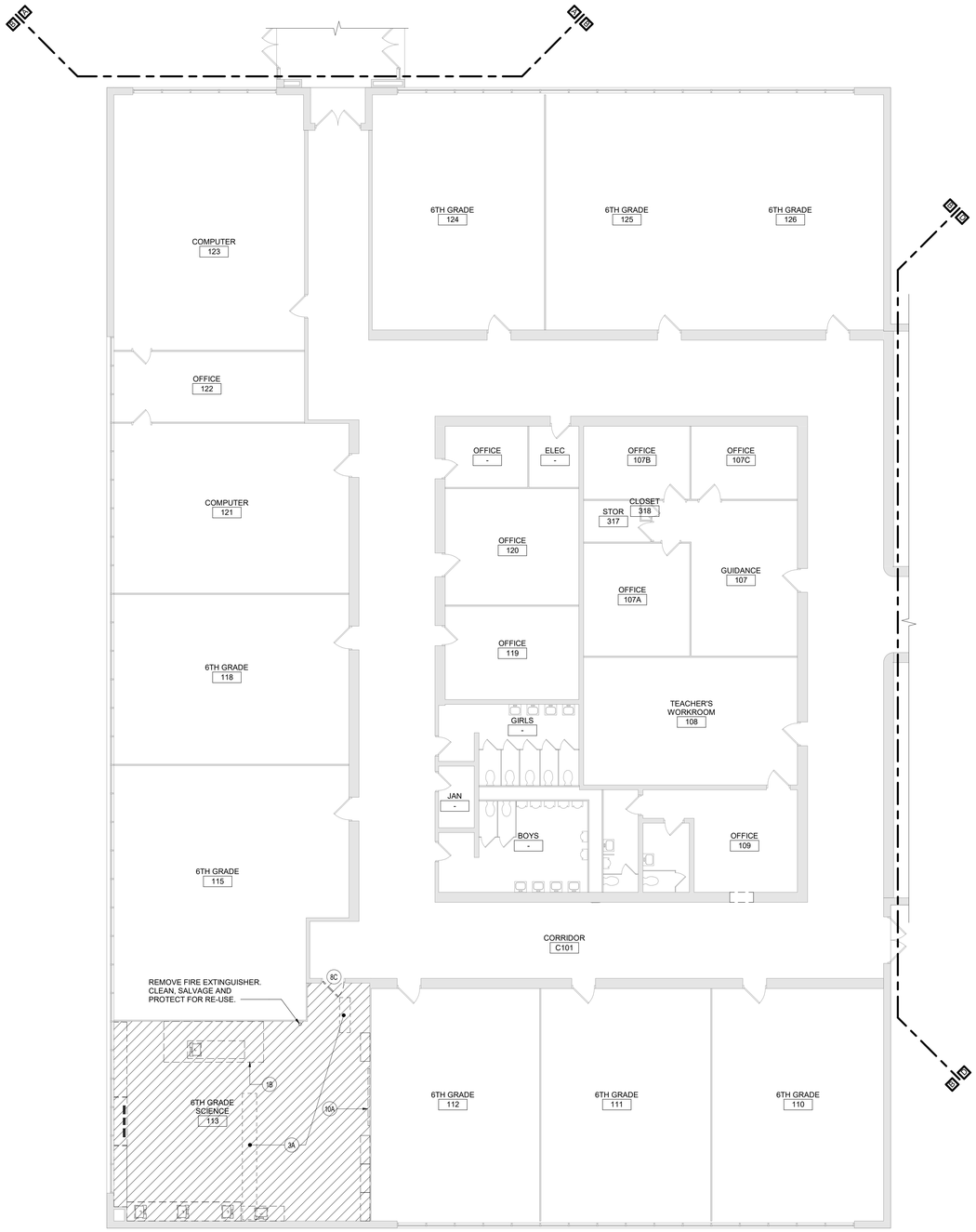
Lakeland Central School District
Shrub Oak, New York

Reconstruction to:
Lakeland Copper Beech Middle School

First and Second Floor Key Plans

Drawn By:	Date:	Drawing Number:
DH/TLG	10/13/2023	DA050

Project No.: 276721-23001



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

Demolition Key Notes

WITHIN HATCHED AREA: REMOVE ALL CONSTRUCTION IN ITS ENTIRETY. STRUCTURE TO REMAIN, TYPICAL UNO. REMOVE ALL FINISH MATERIALS OR OTHER ITEMS ATTACHED TO FACE OF WALLS SCHEDULED TO REMAIN, REMOVE CASEWORK, SHELVING AND EQUIPMENT IN ITS ENTIRETY, TYPICAL UNO. PREPARE AREAS TO RECEIVE SCHEDULED FINISHES. PERFORM ABATEMENT PRIOR TO DEMOLITION. PATCH EXPOSED SURFACES TO MATCH ADJACENT FINISHES / SURFACES. COORDINATE ADDITIONAL REQUIRED DEMOLITION WITH MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS. REMOVE INTERIOR PARTITION FULL-HEIGHT, PORTION AS INDICATED OR AS REQUIRED TO PERFORM SCHEDULED WORK. EXISTING STRUCTURE TO REMAIN. REMOVE FLOOR FINISH AND MASTIC, AND CEILING SYSTEM AND/OR SOFFIT SYSTEM IN ITS ENTIRETY. COORDINATE WITH ABATEMENT DRAWINGS FOR REMOVAL.

1A SAW CUT, OR ENLARGE EXISTING, OPENING IN WALL TO EXTENT REQUIRED TO PERFORM SCHEDULED WORK. PROVIDE LINTEL PER LINTEL SCHEDULE. PATCH EXPOSED SURFACES TO MATCH ADJACENT FINISHES / SURFACES.

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B. TERRAZZO.

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12A REMOVE DISPLAY CASEWORK (INCLUDING ALL ASSOCIATED COMPONENTS). PATCH EXPOSED SURFACES TO MATCH ADJACENT FINISHES / SURFACES.

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General Demolition Notes

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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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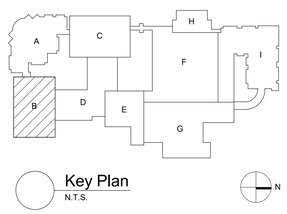

Key Plan
N.T.S.

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S.E.D. Control No. 66-24-01-06-0-012-025

Rev. No.:	Date:	Description:

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BID SET

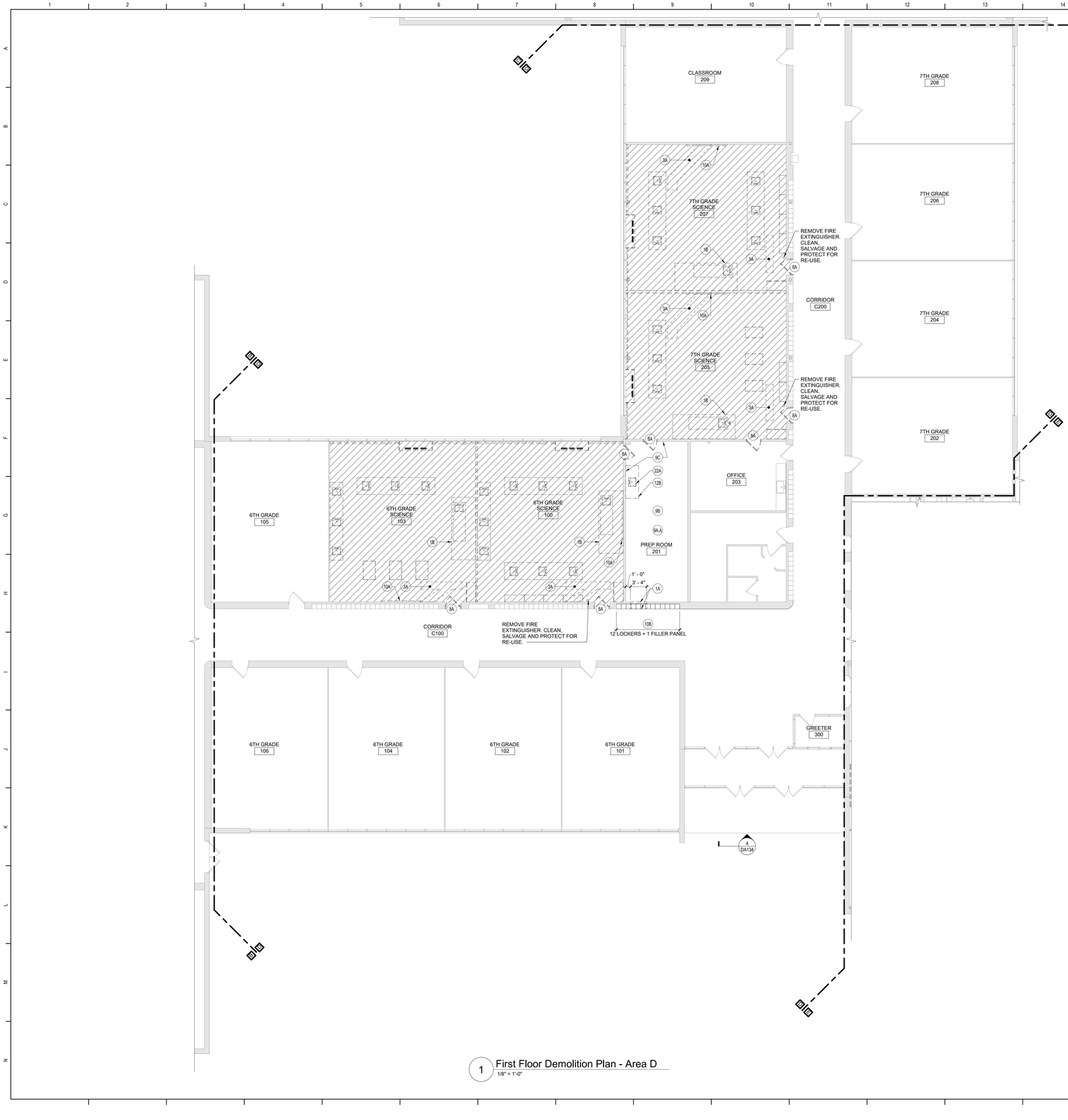
TETRA TECH
ARCHITECTS & ENGINEERS

Lakeland Central School District
Shrub Oak, New York

Reconstruction to:
Lakeland Copper Beech Middle School

First Floor Demolition Plan - Area B

Drawn By:	Date:	Drawing Number:
TLG	10/13/2023	DA100
Project No.: 276721-23001		



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

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B. TERRAZZO.

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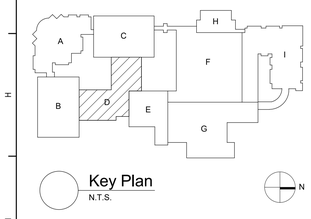

Key Plan
N.T.S.

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S.E.D. Control No. 66-24-01-06-0-012-025

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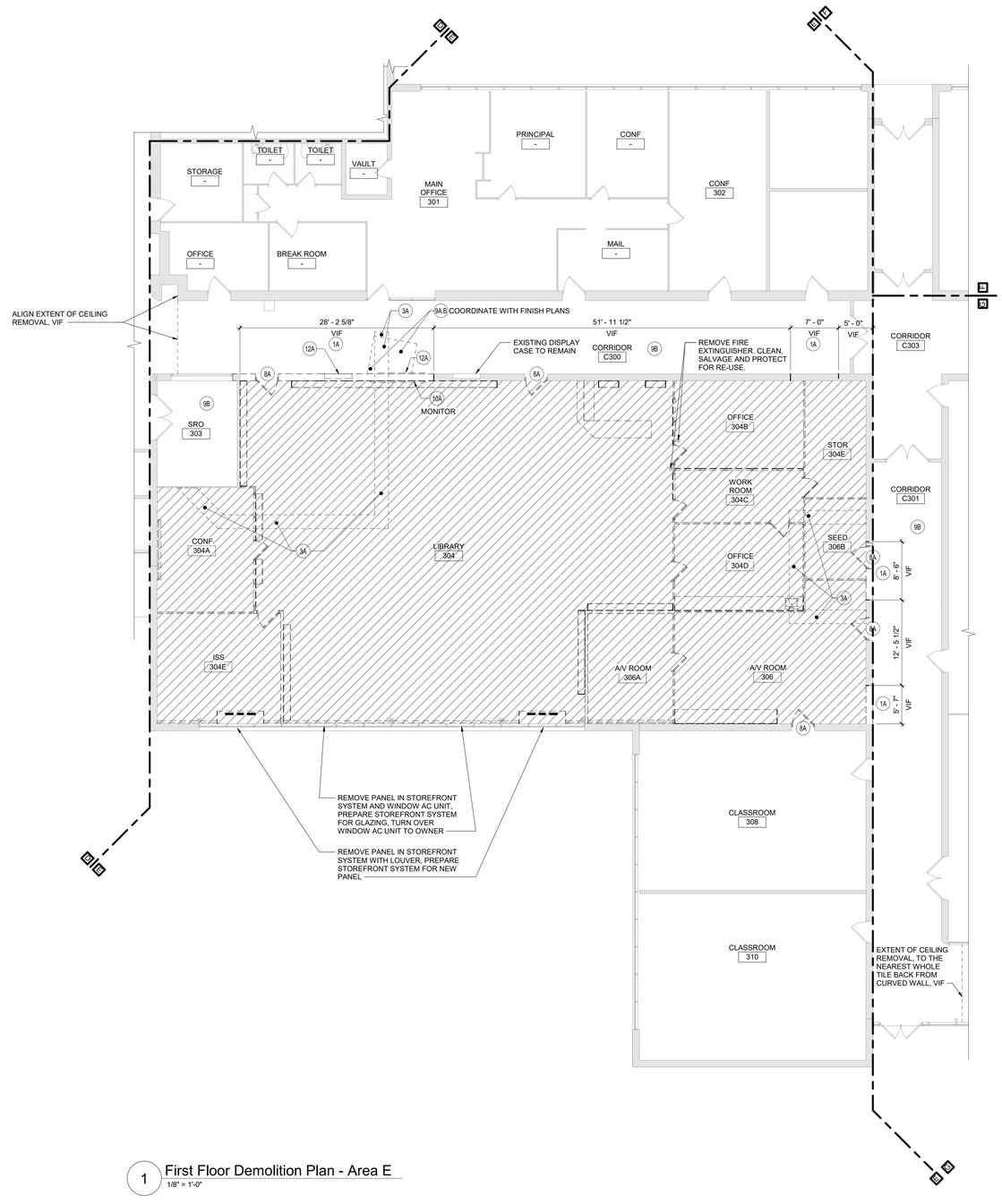
TETRA TECH
ARCHITECTS & ENGINEERS

Lakeland Central School District
Shrub Oak, New York

Reconstruction to:
Lakeland Copper Beech Middle School

First Floor Demolition Plan - Area D

Drawn By:	Date:	Drawing Number:
TLG	10/13/2023	DA101
Project No.: 276721-23001		



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

Demolition Key Notes

WITHIN HATCHED AREA: REMOVE ALL CONSTRUCTION IN ITS ENTIRETY. STRUCTURE TO REMAIN, TYPICAL UNO. REMOVE ALL FINISH MATERIALS OR OTHER ITEMS ATTACHED TO FACE OF WALLS SCHEDULED TO REMAIN, REMOVE CASEWORK, SHELVING AND EQUIPMENT IN ITS ENTIRETY, TYPICAL UNO. PREPARE AREAS TO RECEIVE SCHEDULED FINISHES. PERFORM ABATEMENT PRIOR TO DEMOLITION. PATCH EXPOSED SURFACES TO MATCH ADJACENT FINISHES / SURFACES. COORDINATE ADDITIONAL REQUIRED DEMOLITION WITH MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS. REMOVE INTERIOR PARTITION FULL-HEIGHT, PORTION AS INDICATED OR AS REQUIRED TO PERFORM SCHEDULED WORK. EXISTING STRUCTURE TO REMAIN. REMOVE FLOOR FINISH AND MASTIC, AND CEILING SYSTEM AND/OR SOFFIT SYSTEM IN ITS ENTIRETY. COORDINATE WITH ABATEMENT DRAWINGS FOR REMOVAL.

1A SAW CUT, OR ENLARGE EXISTING, OPENING IN WALL TO EXTENT REQUIRED TO PERFORM SCHEDULED WORK. PROVIDE LINTEL PER LINTEL SCHEDULE. PATCH EXPOSED SURFACES TO MATCH ADJACENT FINISHES / SURFACES.

1B REMOVE RAISED FLOOR ASSEMBLY (INCLUDING FLOOR FINISH AND MASTIC), PORTION INDICATED OR REQUIRED TO PERFORM SCHEDULED WORK. PATCH EXPOSED SURFACES TO MATCH ADJACENT FINISHES / SURFACES. COORDINATE WITH ABATEMENT DRAWINGS FOR REMOVAL.

1C REMOVE INTERIOR PARTITION FULL-HEIGHT, PORTION AS INDICATED OR AS REQUIRED TO PERFORM SCHEDULED WORK. EXISTING STRUCTURE TO REMAIN, VIF.

3A REMOVE PORTION OF CONCRETE SLAB INDICATED OR REQUIRED TO PERFORM SCHEDULED WORK, COORDINATE WITH PLUMBING DRAWINGS. AT LOCATIONS WHERE AREAS OF FLOORING WAS REMOVED AND FLOOR FINISH IS SCHEDULED, LEVEL SLAB WITH ADJACENT SLABS. INCLUDE CONCRETE FLOOR PATCHING AND LEVELING MATERIALS TO MAKE SURFACE LEVEL. PREPARE FOR FINISH. PATCH AREAS OF WALLS THAT ARE SCHEDULED TO REMAIN THAT HAVE BEEN DAMAGED BY WALL BASE REMOVAL TO MATCH SCHEDULED OR ADJACENT FINISHES. COORDINATE WITH ABATEMENT DRAWINGS FOR REMOVAL.

8A REMOVE DOOR AND FRAME COMPLETELY. PATCH EXPOSED SURFACES TO MATCH ADJACENT FINISHES / SURFACES.

8B MODIFY PORTION OF STOREFRONT TO THE EXTENT REQUIRED TO PERFORM WORK.

8C REMOVE DOOR AND HARDWARE ONLY. EXISTING FRAME TO REMAIN. INFILL HOLES, PATCH, PREPARE AND PAINT TO MATCH ADJACENT FINISH AS REQUIRED TO PERFORM WORK AND MAINTAIN FIRE RATING.

9A,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. COORDINATE WITH ABATEMENT DRAWINGS FOR REMOVAL.

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

9B REMOVE CEILING SYSTEM AND/OR SOFFIT SYSTEM IN ITS ENTIRETY. COORDINATE WITH ABATEMENT DRAWINGS FOR REMOVAL.

9C REMOVE WALLPAPER FINISH. PREPARE FOR FINISH. PATCH AREAS OF WALLS TO REMAIN THAT WERE DAMAGED BY REMOVAL OF WALL WALLPAPER.

10A REMOVE INTERACTIVE WHITE BOARD. PROTECT AND DELIVER TO OWNER'S STORAGE LOCATION FOR THEIR RE-USE.

10B REMOVE LOCKERS IN THEIR ENTIRETY. SGT COVE BASE AND WALL CONSTRUCTION ABOVE TO REMAIN, UNO. PATCH EXPOSED SURFACES TO MATCH ADJACENT SURFACES/FINISHES.

12A REMOVE DISPLAY CASEWORK (INCLUDING ALL ASSOCIATED COMPONENTS). PATCH EXPOSED SURFACES TO MATCH ADJACENT FINISHES / SURFACES.

12B REMOVE CASEWORK, SHELVING AND ASSOCIATED COMPONENTS IN THEIR ENTIRETY. PATCH EXPOSED SURFACES TO MATCH ADJACENT FINISHES / SURFACES. COORDINATE WITH CASEWORK DRAWINGS. COORDINATE WITH ABATEMENT DRAWINGS FOR REMOVAL.

22A EXISTING PLUMBING EQUIPMENT. COORDINATE WITH ABATEMENT AND PLUMBING DRAWINGS FOR REMOVAL.

General Demolition Notes

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

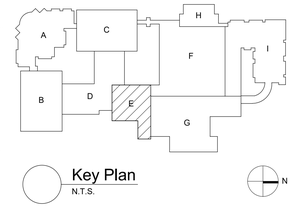
B. KEYED DEMOLITION TAGS REFER TO SPECIFIC LOCATIONS AS FOLLOWS:

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. REFER TO ABATEMENT DRAWINGS FOR HAZARDOUS MATERIAL LOCATIONS AND DEMOLITION TO BE PERFORMED AS ABATEMENT. COORDINATE ALL WORK IDENTIFIED ON ALL TRADES' DEMOLITION DRAWINGS WITH ABATEMENT DRAWINGS PRIOR TO BEGINNING ANY DEMOLITION WORK. ALL HAZARDOUS MATERIAL WORK INDICATED ON DRAWINGS SHALL BE REMOVED AND LEGALLY DISPOSED OF.



Key Plan
N.T.S.

N

S.E.D. Control No. 66-24-01-06-0-012-025

Rev. No.:	Date:	Description:

complex world | CLEAR SOLUTIONS

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

BID SET

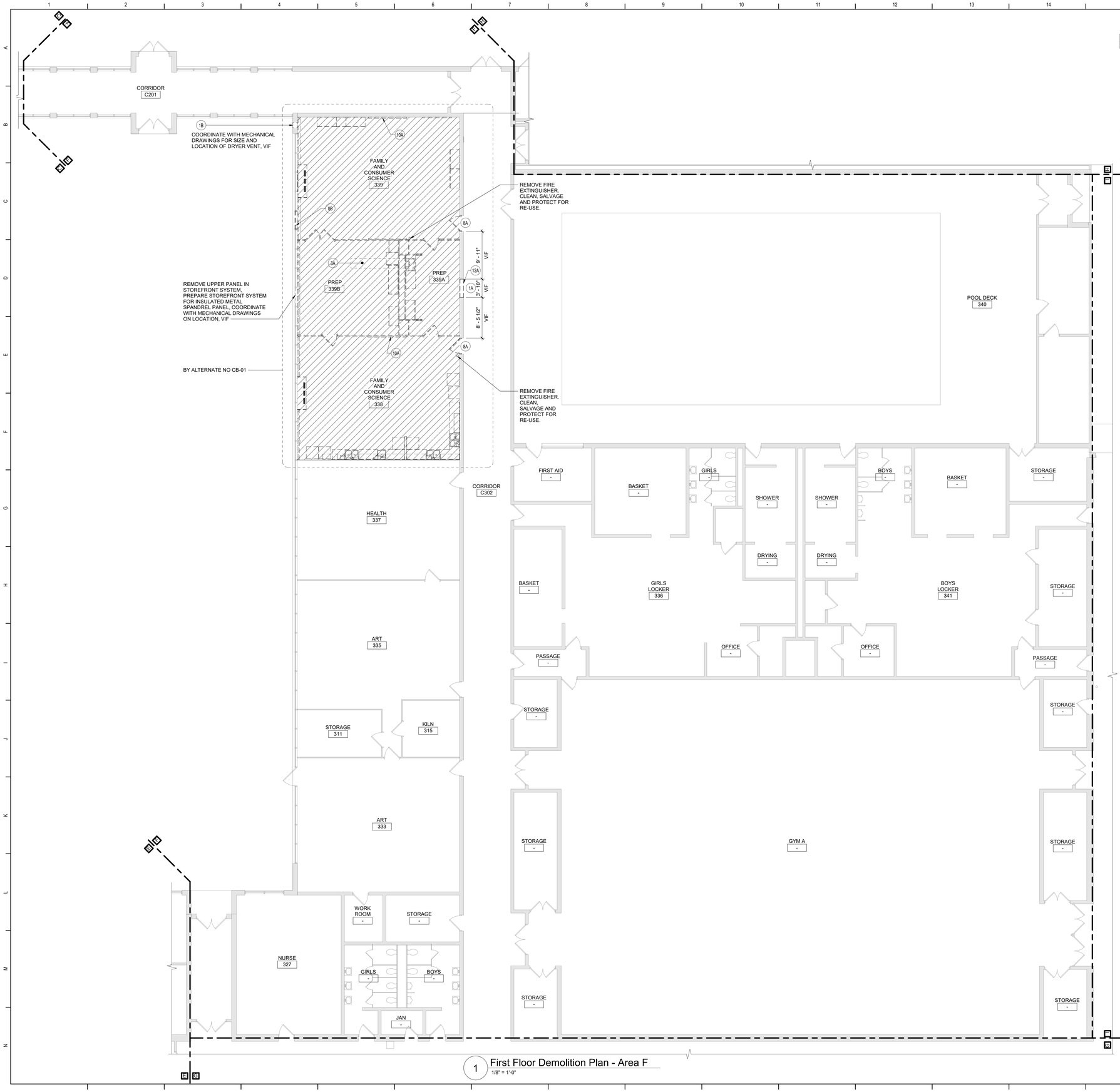
TETRA TECH
ARCHITECTS & ENGINEERS

Lakeland Central School District
Shrub Oak, New York

Reconstruction to:
Lakeland Copper Beech Middle School

First Floor Demolition Plan - Area E

Drawn By:	Date:	Drawing Number:
TLG	10/13/2023	DA102
Project No.: 276721-23001		



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

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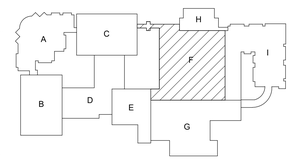

Key Plan
N.T.S.

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S.E.D. Control No. 66-24-01-06-0-012-025

Rev. No.:	Date:	Description:

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

BID SET

TETRA TECH
ARCHITECTS & ENGINEERS

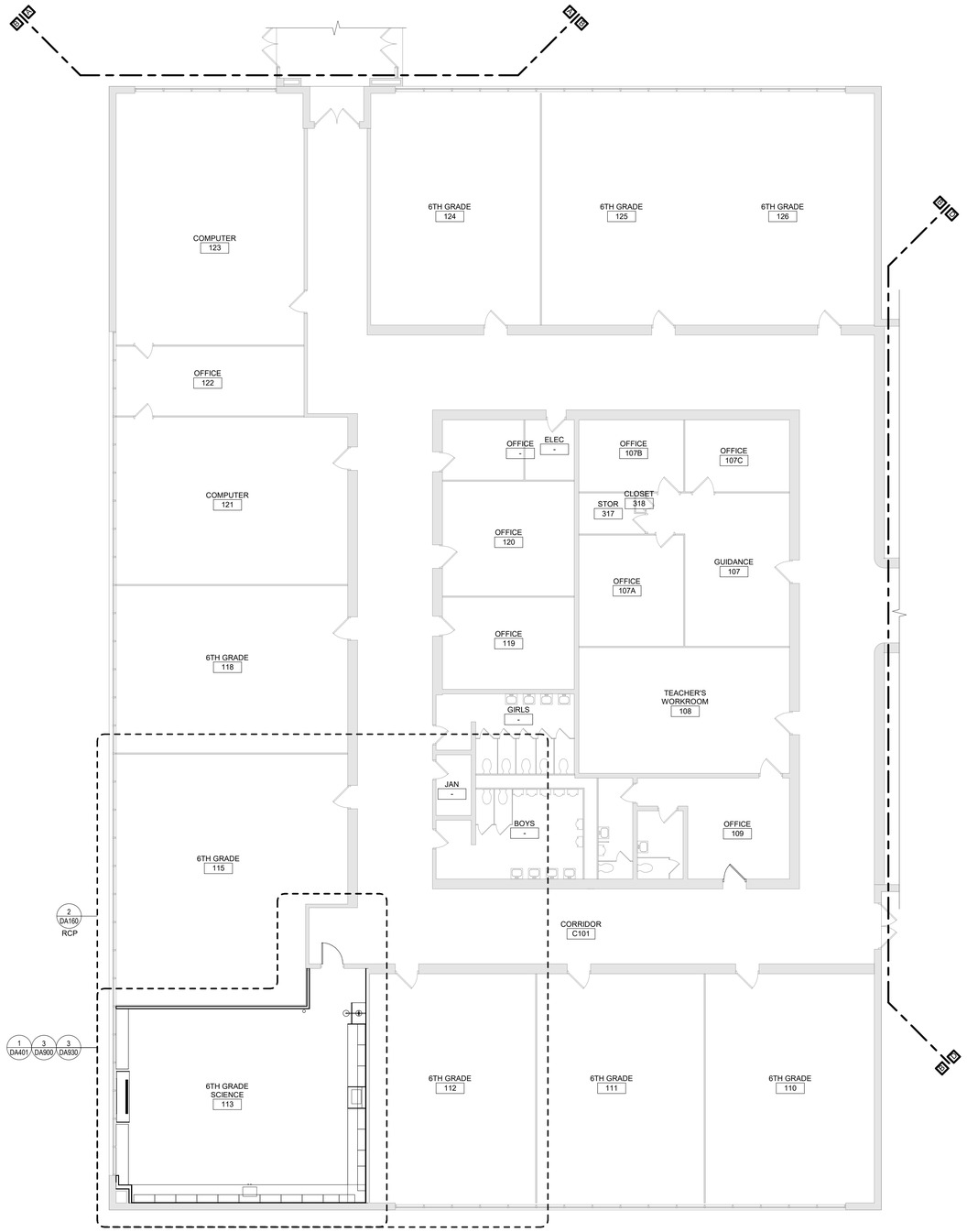
Lakeland Central School District
Shrub Oak, New York

Reconstruction to:
Lakeland Copper Beech Middle School

First Floor Demolition Plan - Area F

Drawn By:	Date:	Drawing Number:
TLG	10/13/2023	DA103

Project No.:
276721-23001



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.

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

C. INFILL AREAS OF RECESSED FLOOR MAT AND/OR FINISH REMOVALS WITH REPAIR MATERIAL. PROVIDE SUBSTRATE LEVEL AS REQUIRED SO SCHEDULED FINISHED FLOOR WILL MATCH THAT OF EXISTING ADJACENT AREAS.

D. PROVIDE BRACING WITHIN CHASES AS FOLLOWS:

1. GYPSUM BOARD/TILE BACKING PANELS ON METAL FRAMING: FULL-HEIGHT 6" METAL STUD BRACES AT MAXIMUM SPACING OF 11'-0" OC.

E. PROVIDE BLOCKING AT NEW AND EXISTING GYPSUM BOARD WALLS PER MANUFACTURER RECOMMENDATIONS FOR SUPPORT OF WALL /TALL MOUNTED CASEWORK UNITS. REFER TO SPECIFICATION SECTION 06 10 00 FOR WOOD BLOCKING RESPONSIBILITIES. STEEL STRAPPING ON FACE OF PARTITION IS NOT ACCEPTABLE.

WP = WORKING POINT

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.

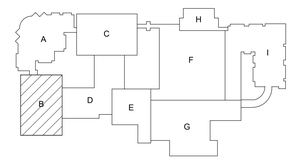
C. REFER INCONSISTENCIES TO ARCHITECT PRIOR TO COMMENCING THE WORK IN AFFECTED AREA.

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.

G. DIMENSIONS ARE FROM FACE OF MASONRY, FROM FACE OF METAL FRAMING OR FROM FACE OF EXISTING CONSTRUCTION. TYP UNO. MASONRY DIMENSIONS ARE NOMINAL.



Key Plan
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S.E.D. Control No. 66-24-01-06-0-012-025

Rev. No.:	Date:	Description:

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

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ARCHITECTS & ENGINEERS

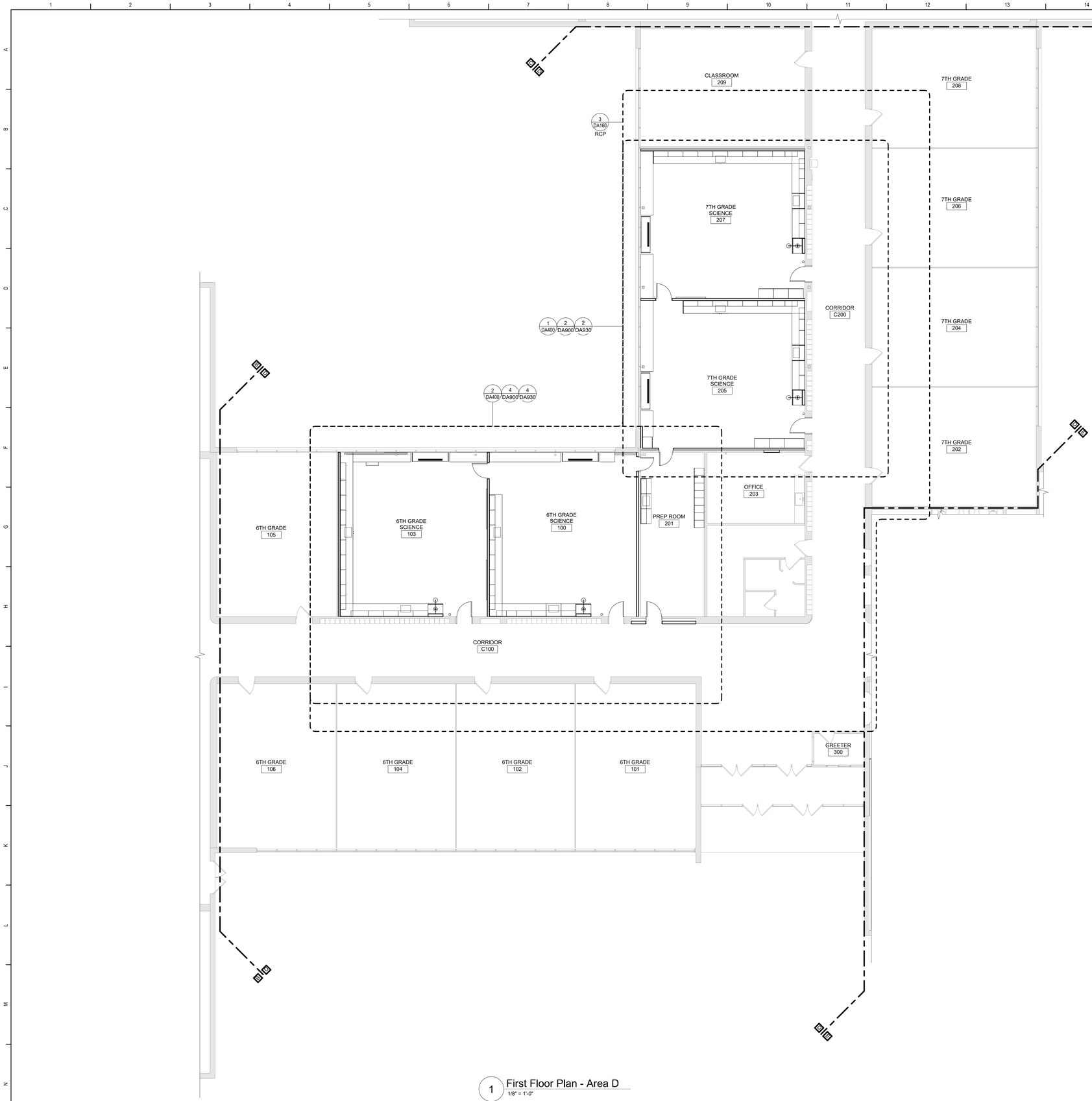
Lakeland Central School District
Shrub Oak, New York

Reconstruction to:
Lakeland Copper Beech Middle School

First Floor Plan - Area B

Drawn By:	Date:	Drawing Number:
TLG	10/13/2023	DA130

Project No.:
276721-23001



1 First Floor Plan - Area D
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 INTERIOR WALLS SHALL BE WALL/PARTITION TYPE P12.3, TYPICAL UNLESS NOTED OTHERWISE.

C. INFILL AREAS OF RECESSED FLOOR MAT AND/OR FINISH REMOVALS WITH REPAIR MATERIAL. PROVIDE SUBSTRATE LEVEL AS REQUIRED SO SCHEDULED FINISHED FLOOR WILL MATCH THAT OF EXISTING ADJACENT AREAS.

D. PROVIDE BRACING WITHIN CHASES AS FOLLOWS:

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E. PROVIDE BLOCKING AT NEW AND EXISTING GYPSUM BOARD WALLS PER MANUFACTURER RECOMMENDATIONS FOR SUPPORT OF WALL /TALL MOUNTED CASEWORK UNITS. REFER TO SPECIFICATION SECTION 06 10 00 FOR WOOD BLOCKING RESPONSIBILITIES. STEEL STRAPPING ON FACE OF PARTITION IS NOT ACCEPTABLE.

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General Notes

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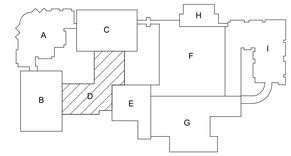

Key Plan
N.T.S.

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S.E.D. Control No. 66-24-01-06-0-012-025

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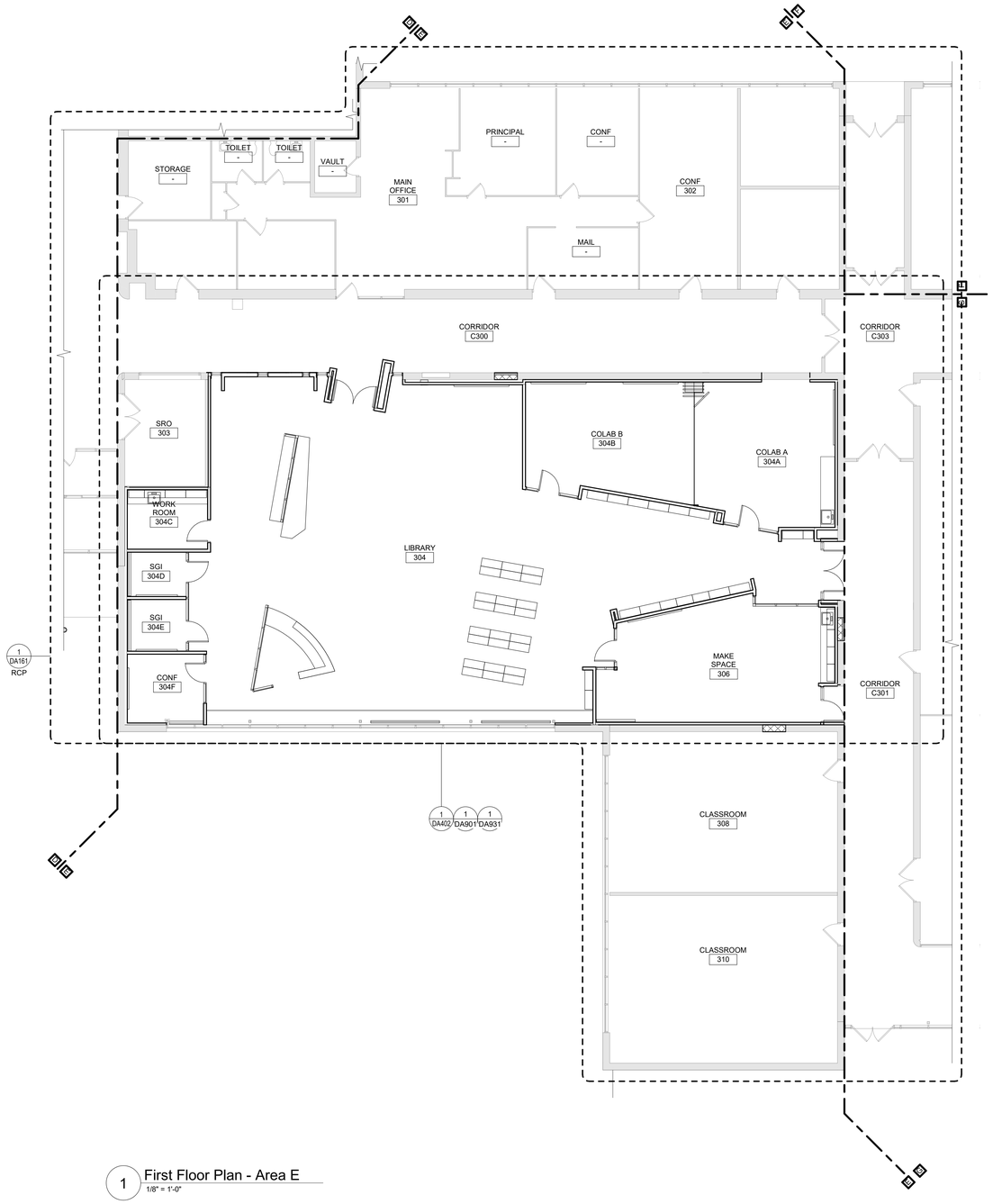
Lakeland Central School District
Shrub Oak, New York

Reconstruction to:
Lakeland Copper Beech Middle School

First Floor Plan - Area D

Drawn By:	Date:	Drawing Number:
TLG	10/13/2023	DA131

Project No.:
276721-23001



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

General Plan Notes

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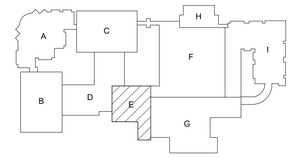

Key Plan
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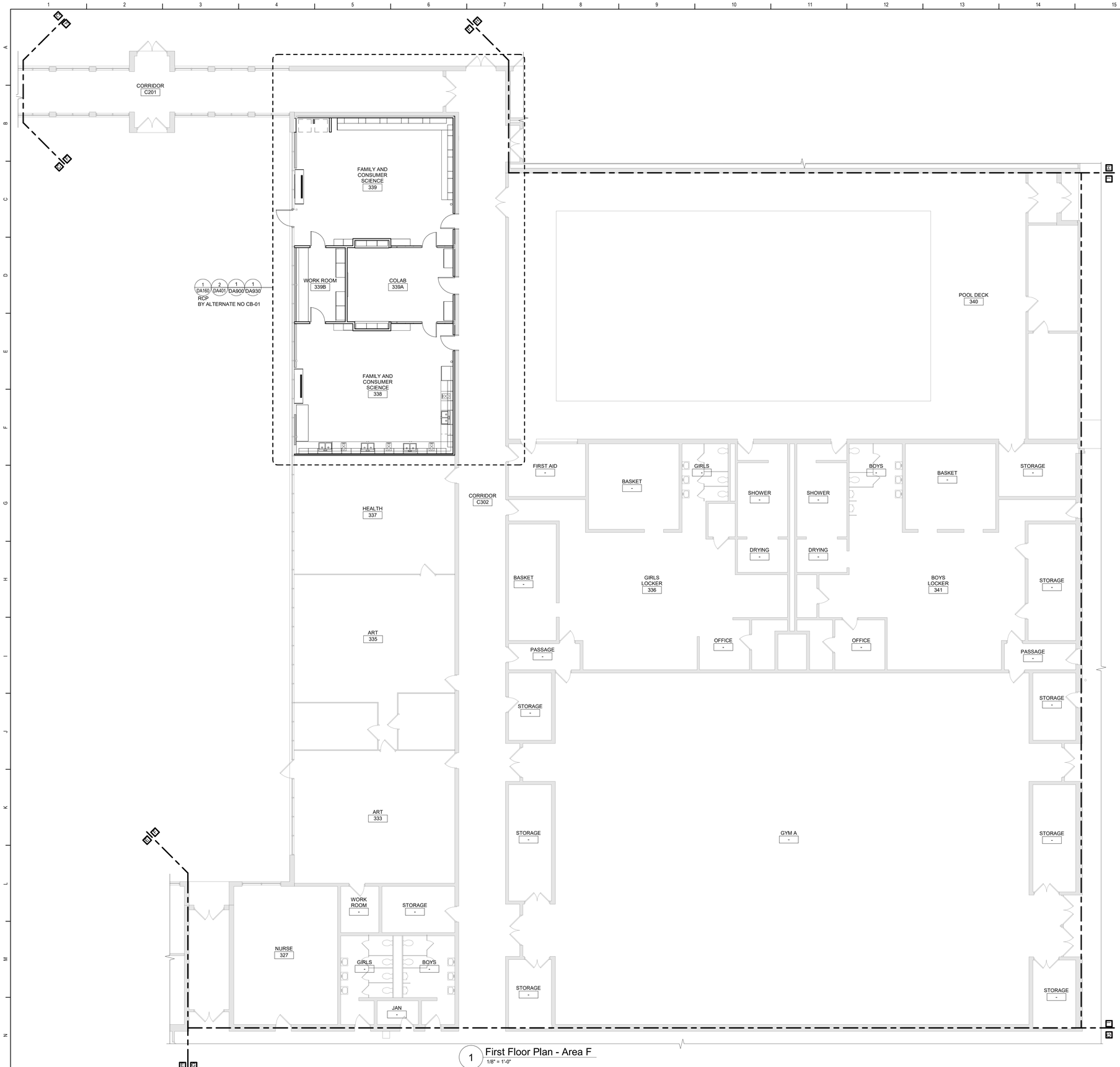
Shrub Oak, New York

Reconstruction to:
Lakeland Copper Beech Middle School

First Floor Plan - Area E

Drawn By:	Date:	Drawing Number:
TLG	10/13/2023	DA132

Project No.: 276721-23001



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

C. INFILL AREAS OF RECESSED FLOOR MAT AND/OR FINISH REMOVALS WITH REPAIR MATERIAL. PROVIDE SUBSTRATE LEVEL AS REQUIRED SO SCHEDULED FINISHED FLOOR WILL MATCH THAT OF EXISTING ADJACENT AREAS.

D. PROVIDE BRACING WITHIN CHASES AS FOLLOWS:

1. GYPSUM BOARD/TILE BACKING PANELS ON METAL FRAMING: FULL-HEIGHT 6" METAL STUD BRACES AT MAXIMUM SPACING OF 11'-0" OC.

E. PROVIDE BLOCKING AT NEW AND EXISTING GYPSUM BOARD WALLS PER MANUFACTURER RECOMMENDATIONS FOR SUPPORT OF WALL /TALL MOUNTED CASEWORK UNITS. REFER TO SPECIFICATION SECTION 06 10 00 FOR WOOD BLOCKING RESPONSIBILITIES. STEEL STRAPPING ON FACE OF PARTITION IS NOT ACCEPTABLE.

WP = WORKING POINT

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.

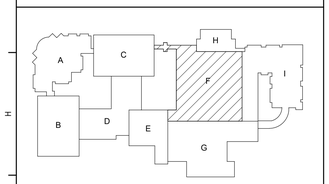
C. REFER INCONSISTENCIES TO ARCHITECT PRIOR TO COMMENCING THE WORK IN AFFECTED AREA.

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.

G. DIMENSIONS ARE FROM FACE OF MASONRY, FROM FACE OF METAL FRAMING OR FROM FACE OF EXISTING CONSTRUCTION. TYP UNO. MASONRY DIMENSIONS ARE NOMINAL.



Key Plan
N.T.S.

N

S.E.D. Control No. 66-24-01-06-0-012-025

Rev. No.:	Date:	Description:

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

BID SET

TETRA TECH
ARCHITECTS & ENGINEERS

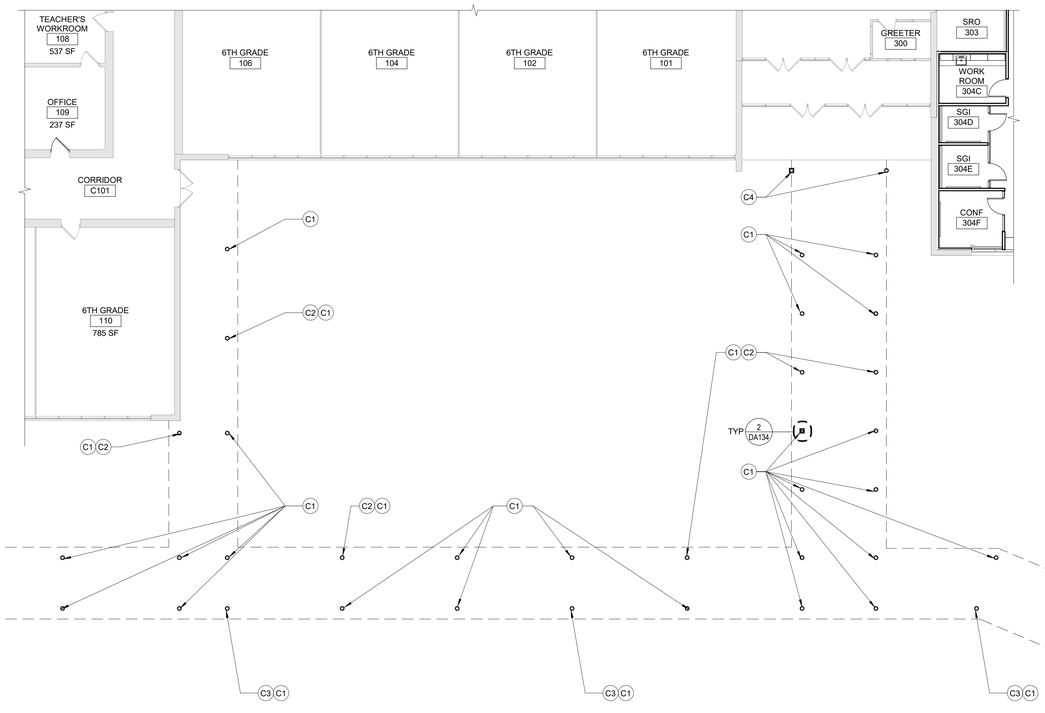
Lakeland Central School District
Shrub Oak, New York

Reconstruction to:
Lakeland Copper Beech Middle School

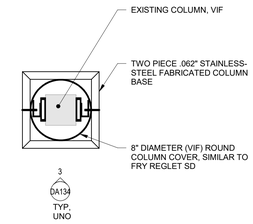
First Floor Plan - Area F

Drawn By:	Date:	Drawing Number:
TLG	10/13/2023	DA133

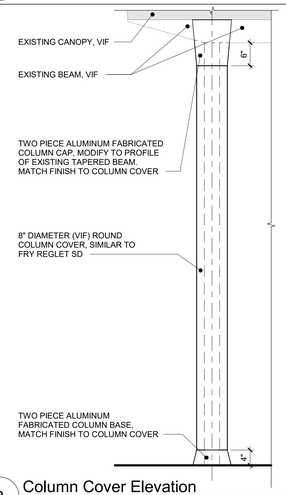
Project No.:
276721-23001



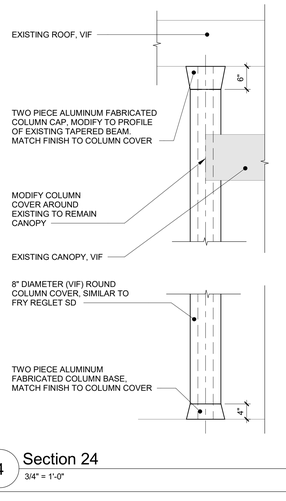
1 First Floor Plan - Canopy
3/32" = 1'-0"



2 Column Cover Plan Detail
1 1/2" = 1'-0"



3 Column Cover Elevation
3/4" = 1'-0"



4 Section 24
3/4" = 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.

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WP = WORKING POINT

General Notes

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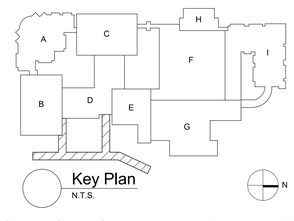
Column Key Notes

C1 PROVIDE COLUMN COVER, BASE AND CAP, REFER TO DETAILS 2/DA134 AND 3/DA134

C2 MODIFY DOWNSPOUT AS REQUIRED TO PERFORM SCHEDULED WORK, VIF. REINSTALL MODIFIED DOWNSPOUT.

C3 REMOVE SIGNAGE ATTACHED TO EXISTING COLUMN. PROTECT AND DELIVER TO OWNER'S STORAGE LOCATION FOR THEIR RE-USE.

C4 PROVIDE COLUMN COVER, BASE AND CAP, REFER TO DETAILS 2/DA134 AND 4/DA134



S.E.D. Control No. 66-24-01-06-0-012-025

Rev. No.:	Date:	Description:

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BID SET

TETRA TECH
ARCHITECTS & ENGINEERS

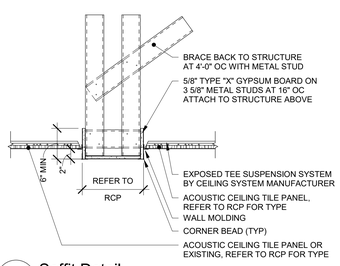
Lakeland Central School District
Shrub Oak, New York

Reconstruction to:
Lakeland Copper Beech Middle School

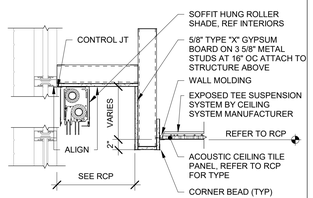
Canopy Plan and Details

Drawn By:	Date:	Drawing Number:
TLG	10/13/2023	DA134

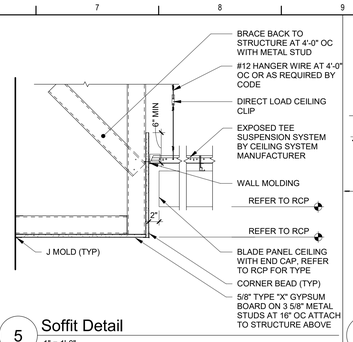
Project No.: 276721-23001



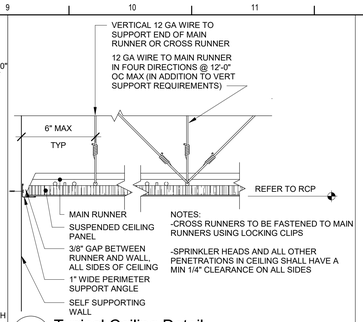
7 Soffit Detail
1" = 1'-0"



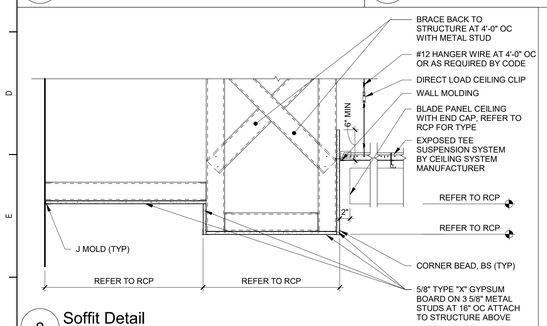
6 Soffit at Window
1" = 1'-0"



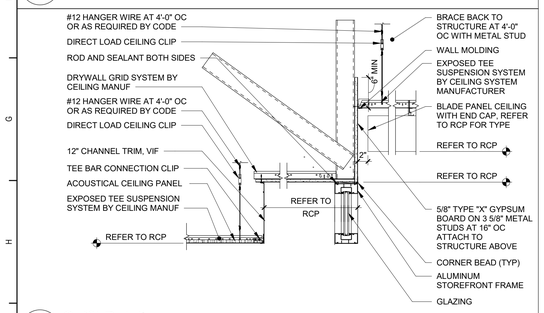
5 Soffit Detail
1" = 1'-0"



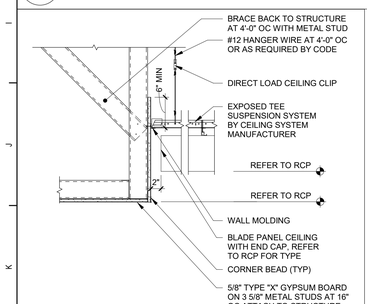
4 Typical Ceiling Detail
3" = 1'-0"



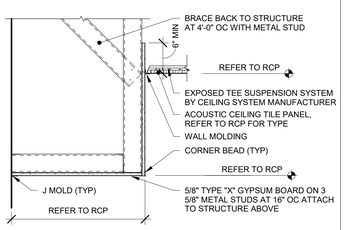
8 Soffit Detail
1" = 1'-0"



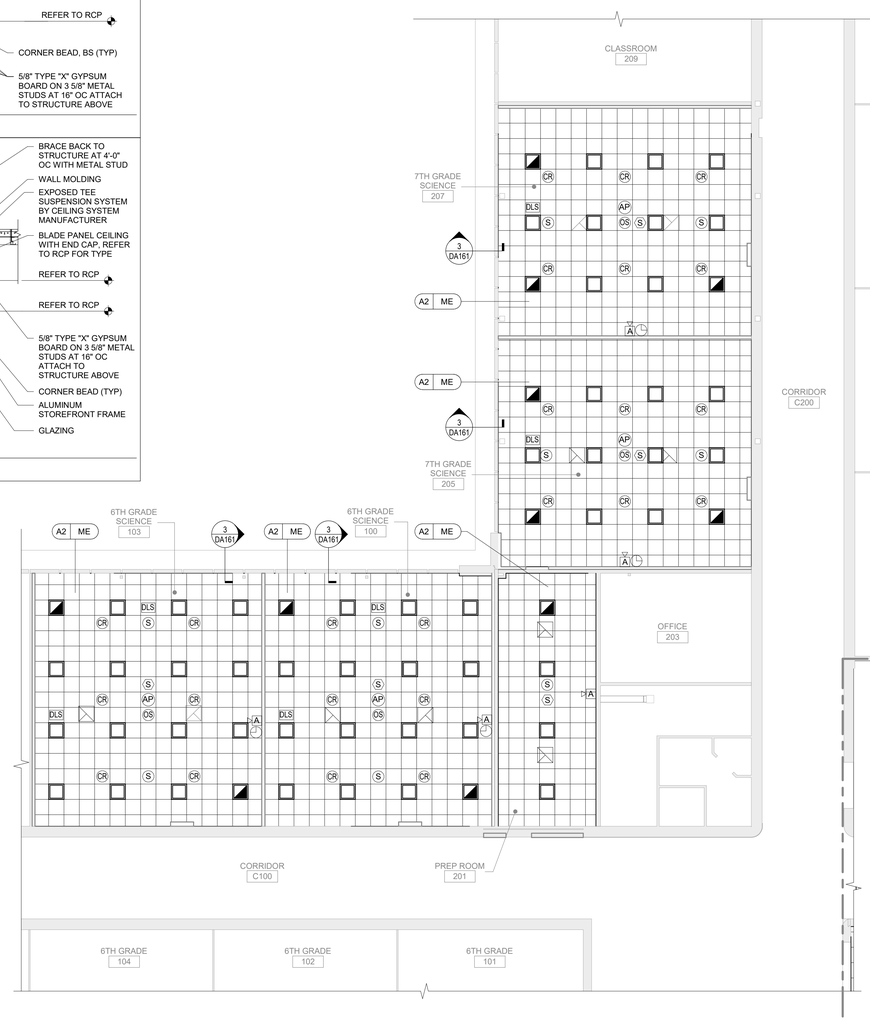
9 Soffit Detail
1" = 1'-0"



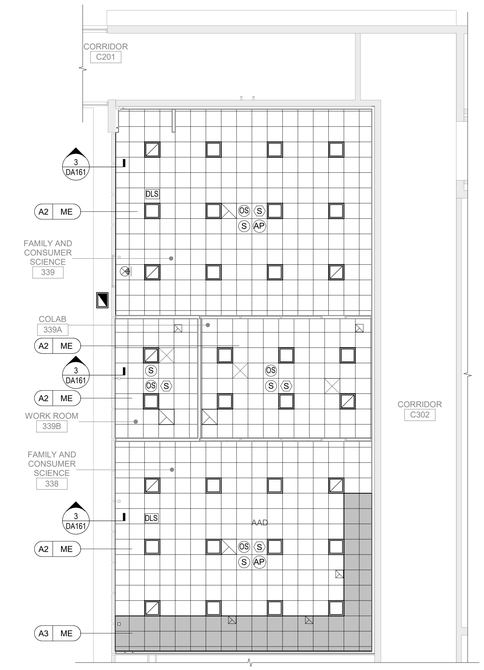
10 Typical Ceiling Detail
1" = 1'-0"



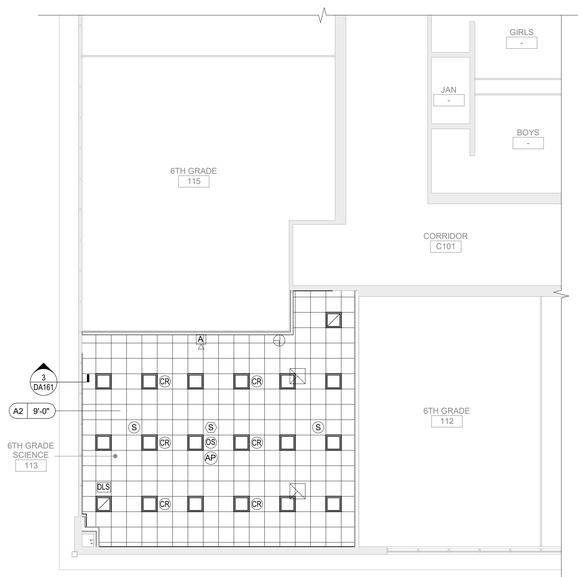
11 Soffit Detail
1" = 1'-0"



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



1 Partial First Floor Reflected Ceiling Plan - Area F
1/8" = 1'-0" BY ALTERNATE NO CB-01



2 Partial First Floor Reflected Ceiling Plan - Area B
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).

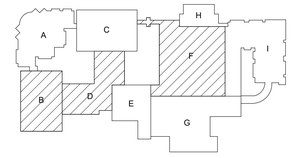
F. PATCH CEILING SYSTEMS TO REMAIN THAT HAVE BEEN DISTURBED BY SCHEDULED WORK TO MATCH ADJACENT CONSTRUCTION PRIOR TO PAINTING.

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

Ceiling Types

A1	X'-X"	ACOUSTIC PANEL CEILING
A2	X'-X"	ACOUSTIC PANEL CEILING
A3	X'-X"	ACOUSTIC PANEL CEILING WITH STAINLESS STEEL WIRE HANGERS
A4	X'-X"	BLADE PANEL CEILING WITH BLACK SUSPENSION SYSTEM
B	X'-X"	PAINTED 5/8" 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

HATCHED AREA INDICATES AREA OF A3 ACOUSTICAL PANEL CEILING



Key Plan
N.T.S.

N

S.E.D. Control No. 66-24-01-06-0-012-025

Rev. No.:	Date:	Description:

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

BID SET

TETRA TECH
ARCHITECTS & ENGINEERS

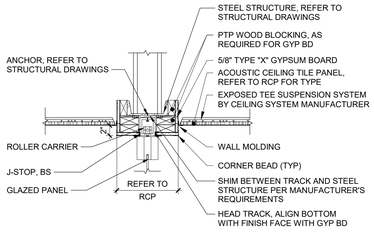
Lakeland Central School District
Shrub Oak, New York

Reconstruction to:
Lakeland Copper Beech Middle School

Partial First Floor Reflected Ceiling Plan - Area B, D and F and Details

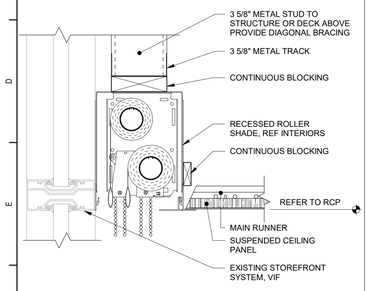
Drawn By:	Date:	Drawing Number:
TLG	10/13/2023	DA160

Project No.: 276721-23001



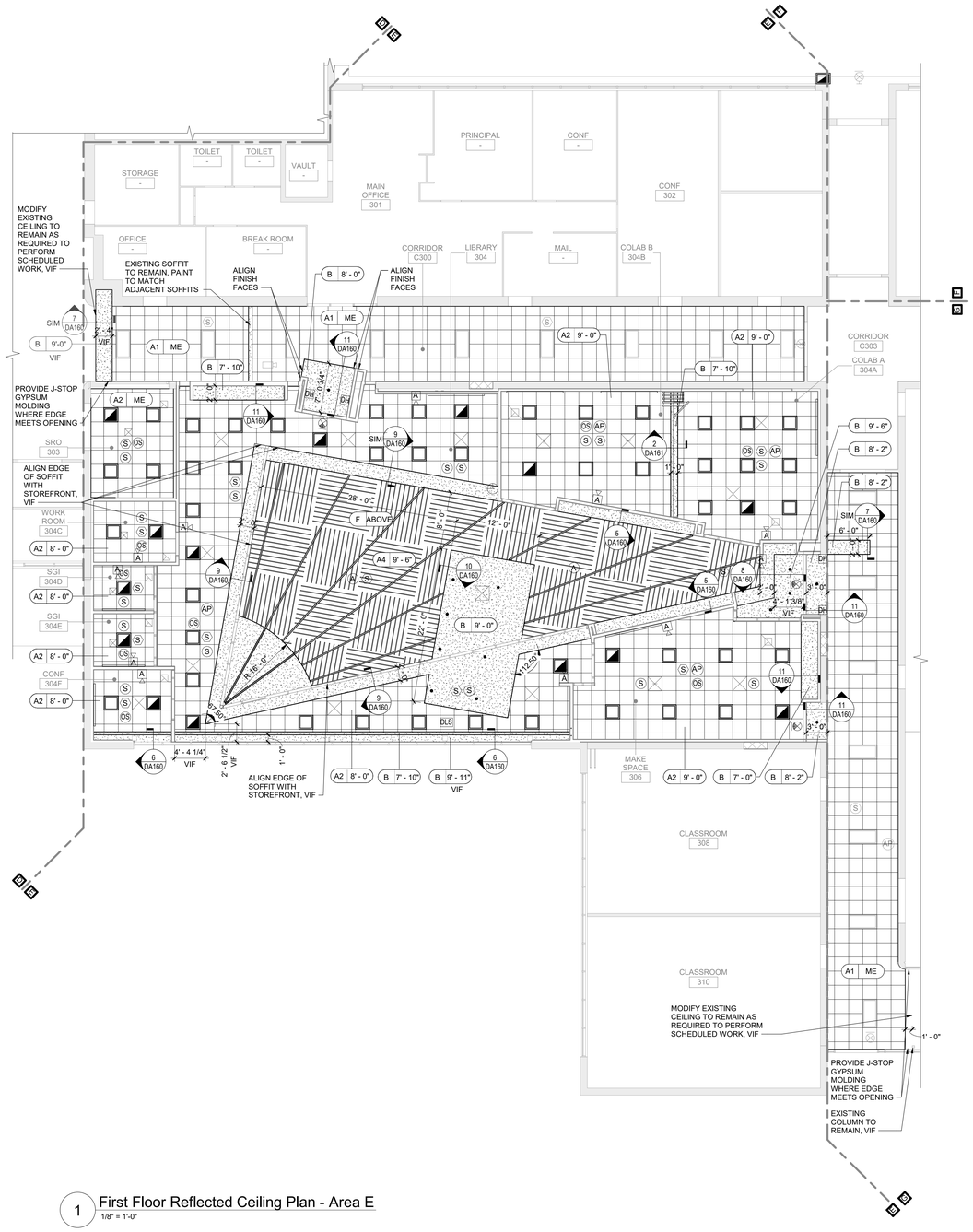
2 Soffit Detail

1" = 1'-0"



3 Roller Shade Ceiling Detail

3" = 1'-0"



1 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).

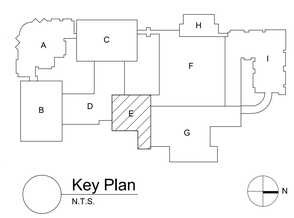
F. PATCH CEILING SYSTEMS TO REMAIN THAT HAVE BEEN DISTURBED BY SCHEDULED WORK TO MATCH ADJACENT CONSTRUCTION PRIOR TO PAINTING.

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

Ceiling Types

A1	X'-X"	ACOUSTIC PANEL CEILING
A2	X'-X"	ACOUSTIC PANEL CEILING
A3	X'-X"	ACOUSTIC PANEL CEILING WITH STAINLESS STEEL WIRE HANGERS
A4	X'-X"	BLADE PANEL CEILING WITH BLACK SUSPENSION SYSTEM
B	X'-X"	PAINTED 5/8" 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

HATCHED AREA INDICATES AREA OF A3 ACOUSTICAL PANEL CEILING



Key Plan
N.T.S.

S.E.D. Control No. 66-24-01-06-0-012-025

Rev. No.:	Date:	Description:

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BID SET

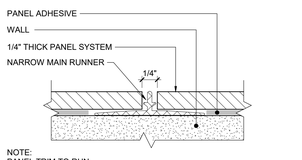
TETRA TECH ARCHITECTS & ENGINEERS

Lakeland Central School District
Shrub Oak, New York

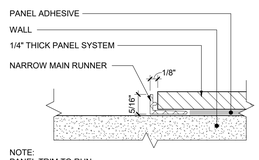
Reconstruction to:
Lakeland Copper Beech Middle School

First Floor Reflected Ceiling Plan - Area E and Details

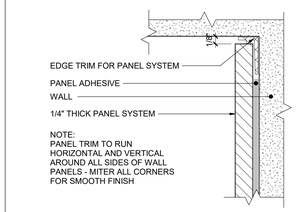
Drawn By:	Date:	Drawing Number:
TLG	10/13/2023	DA161
Project No.: 276721-23001		



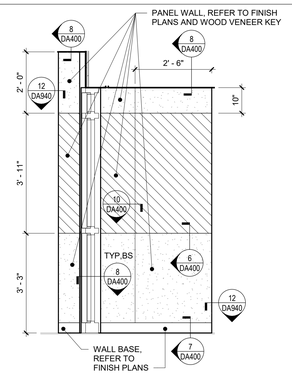
10 Wall System Detail - Vertical
12" = 1'-0"



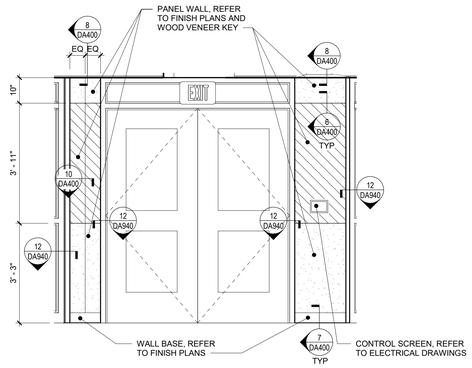
9 Wall System Detail - Exposed Edge
12" = 1'-0"



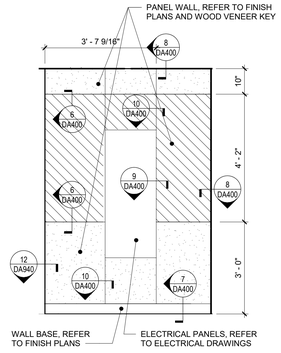
8 Wall System Detail - Corner
12" = 1'-0"



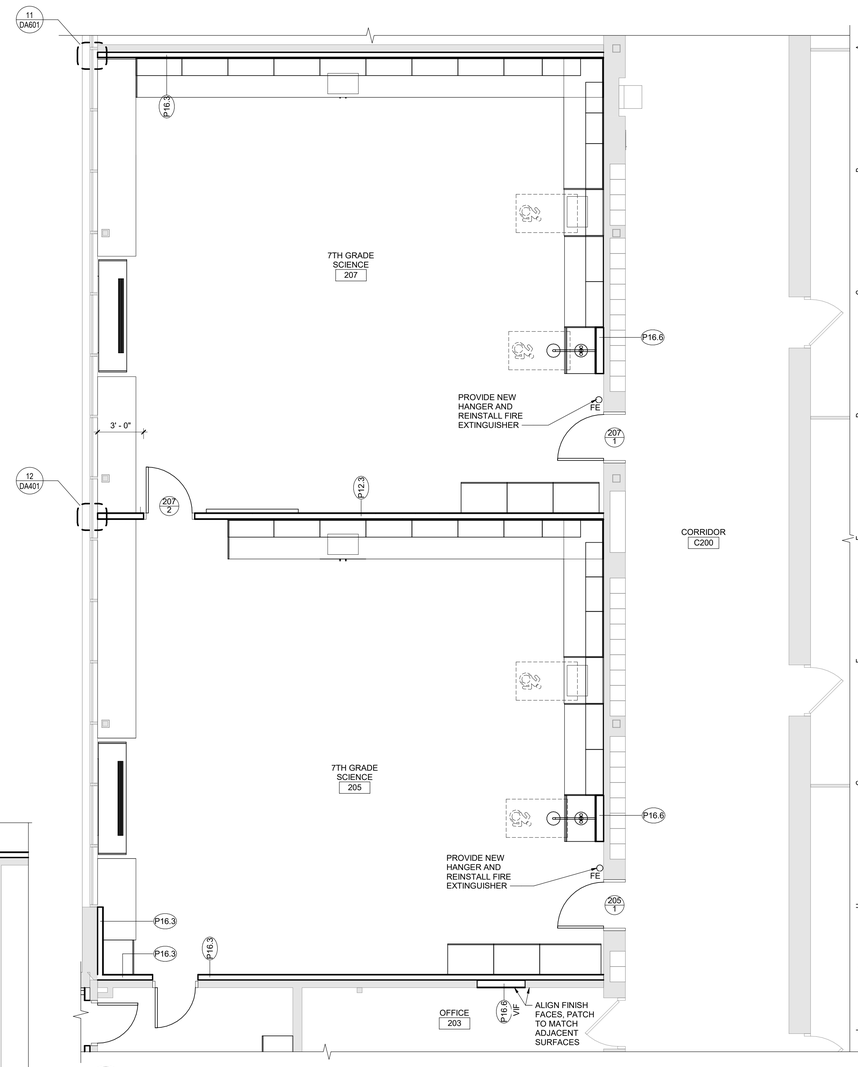
5 Library Entry Elevation
1/2" = 1'-0"



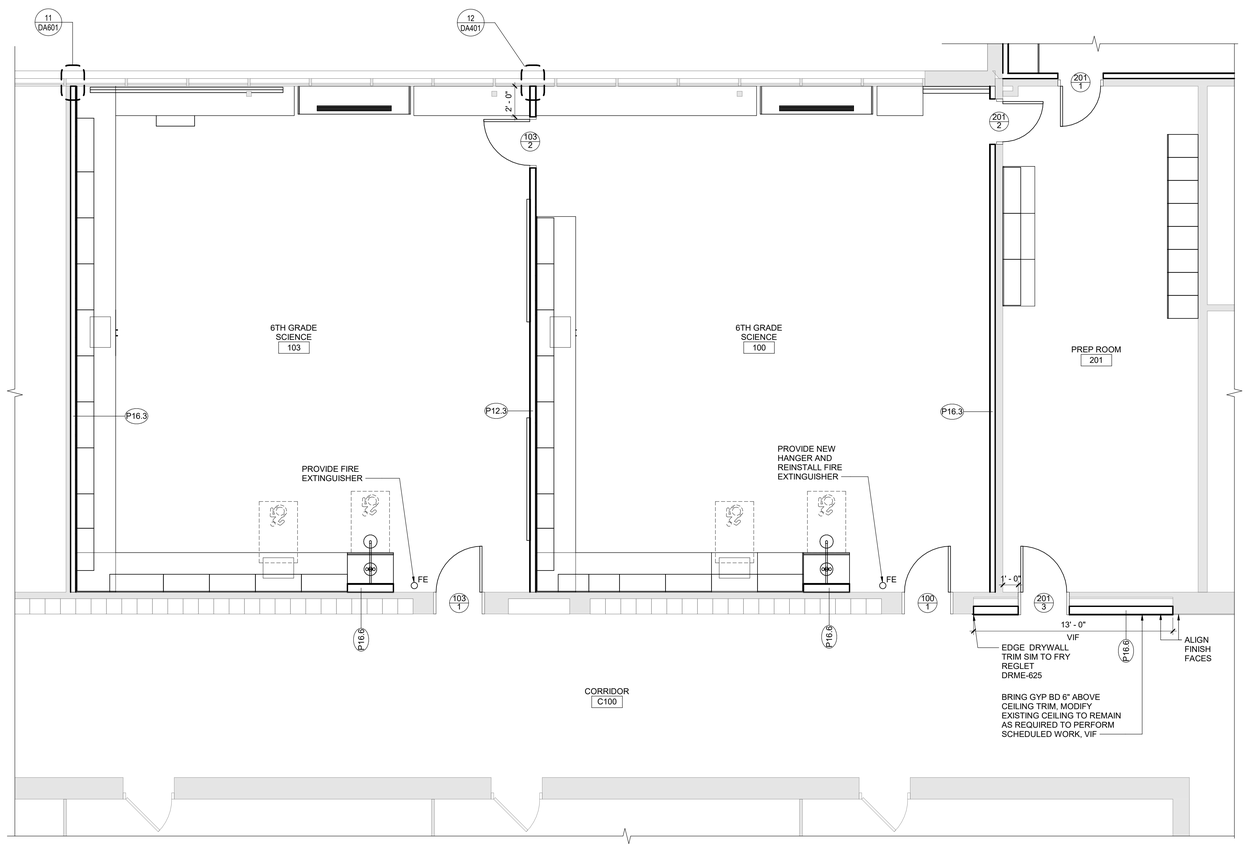
4 Library Entry Elevation
1/2" = 1'-0"



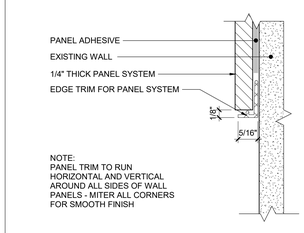
3 Library Entry Elevation
1/2" = 1'-0"



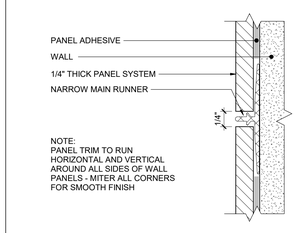
1 First Floor Area D Enlarged Science Rooms 205 and 207 Plan
1/4" = 1'-0"



2 First Floor Area D Enlarged Science Rooms 100 and 103 and Prep Room 201 Plan
1/4" = 1'-0"



7 Wall System Detail - Base
12" = 1'-0"



6 Wall System Detail - Horizontal
12" = 1'-0"

General Notes

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G. DIMENSIONS ARE FROM FACE OF MASONRY, FROM FACE OF METAL FRAMING OR FROM FACE OF EXISTING CONSTRUCTION. TYP UNO. MASONRY DIMENSIONS ARE NOMINAL.

General Plan Notes

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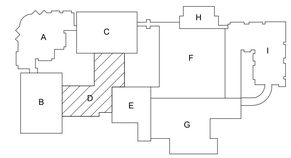
WP = WORKING POINT

Interior Elevation Key

WOOD VENEER TYPE 1

WOOD VENEER TYPE 2



Key Plan
N.T.S.

N

S.E.D. Control No. 66-24-01-06-0-012-025

Rev. No.:	Date:	Description:

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BID SET

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

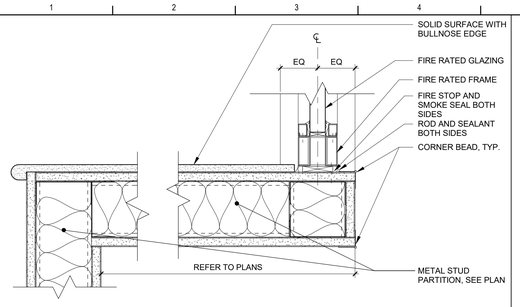
TETRA TECH
ARCHITECTS & ENGINEERS

Lakeland Central School District
Shrub Oak, New York

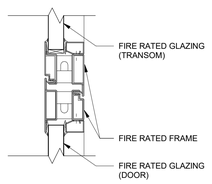
Reconstruction to:
Lakeland Copper Beech Middle School

Enlarged Plans, Interior Elevations and Details

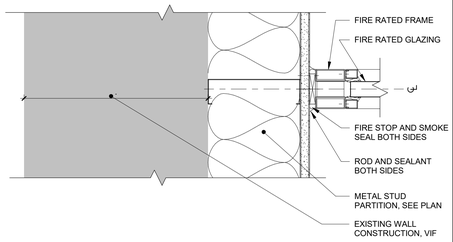
Drawn By:	Date:	Drawing Number:
TLG	10/13/2023	DA400
Project No.: 276721-23001		



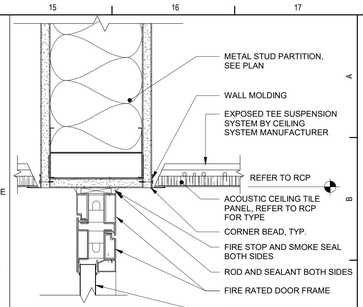
9 60 Min. Fire-Rated Frame - Sill Detail
3" = 1'-0"



8 60 Min. Fire-Rated Frame - Transom Detail
3" = 1'-0"



5 60 Min. Fire-Rated Frame - Jamb Detail
3" = 1'-0"



3 60 Min. Fire-Rated Frame - Head Detail
3" = 1'-0"

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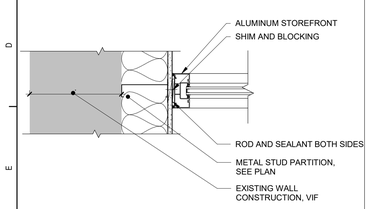
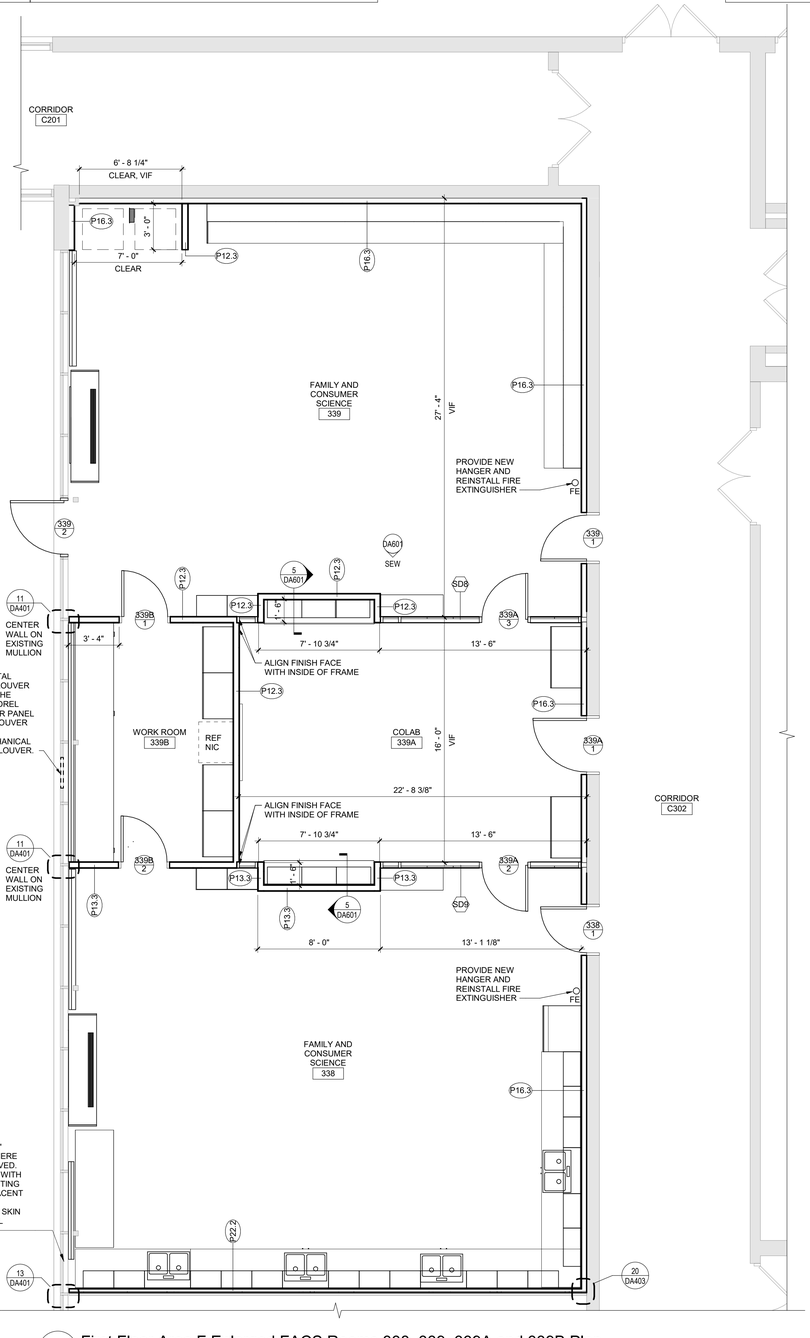
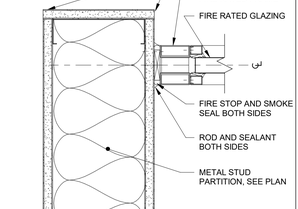
WP = WORKING POINT



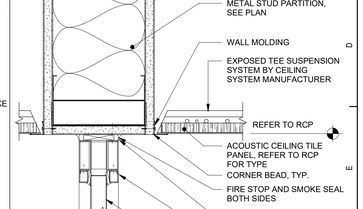
10 Jamb Detail
1 1/2" = 1'-0"



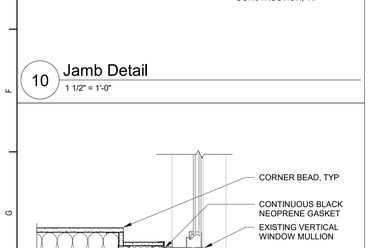
2 First Floor Area F Enlarged FACS Rooms 338, 339, 339A and 339B Plan
1/4" = 1'-0" BY ALTERNATE NO CB-01



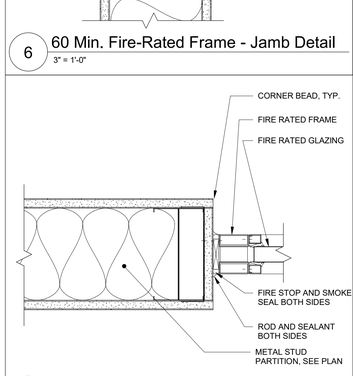
6 60 Min. Fire-Rated Frame - Jamb Detail
3" = 1'-0"



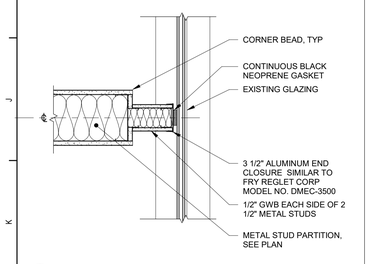
4 60 Min. Fire-Rated Frame - Head Detail
3" = 1'-0"



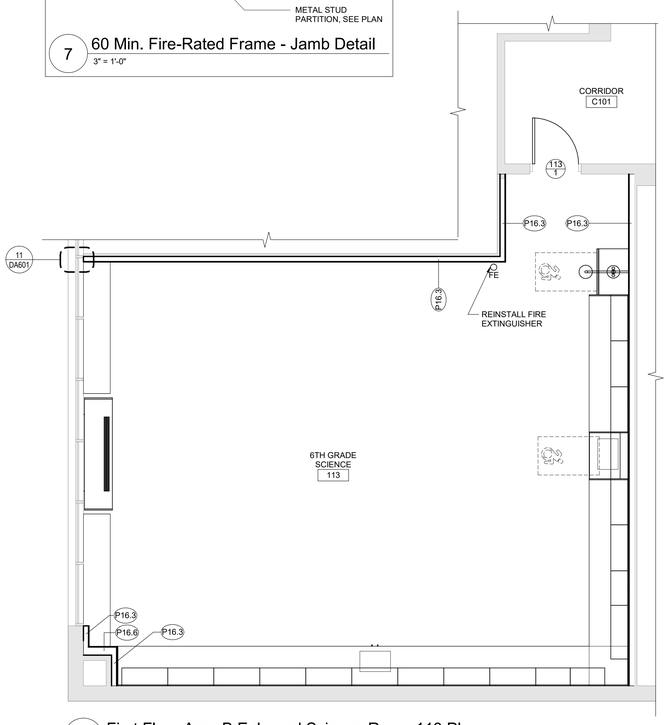
11 Window Partition Detail
1 1/2" = 1'-0"



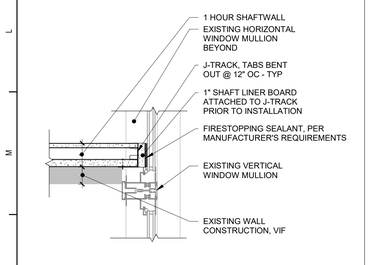
7 60 Min. Fire-Rated Frame - Jamb Detail
3" = 1'-0"



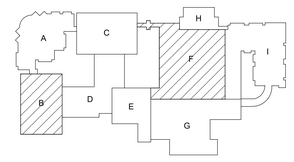
12 Window Partition Detail
1 1/2" = 1'-0"



1 First Floor Area B Enlarged Science Room 113 Plan
1/4" = 1'-0"



13 Shaft Wall (1-Hr) - Window Details
1 1/2" = 1'-0"



Key Plan
N.T.S.

N

S.E.D. Control No. 66-24-01-06-0-012-025

Rev. No.:	Date:	Description:

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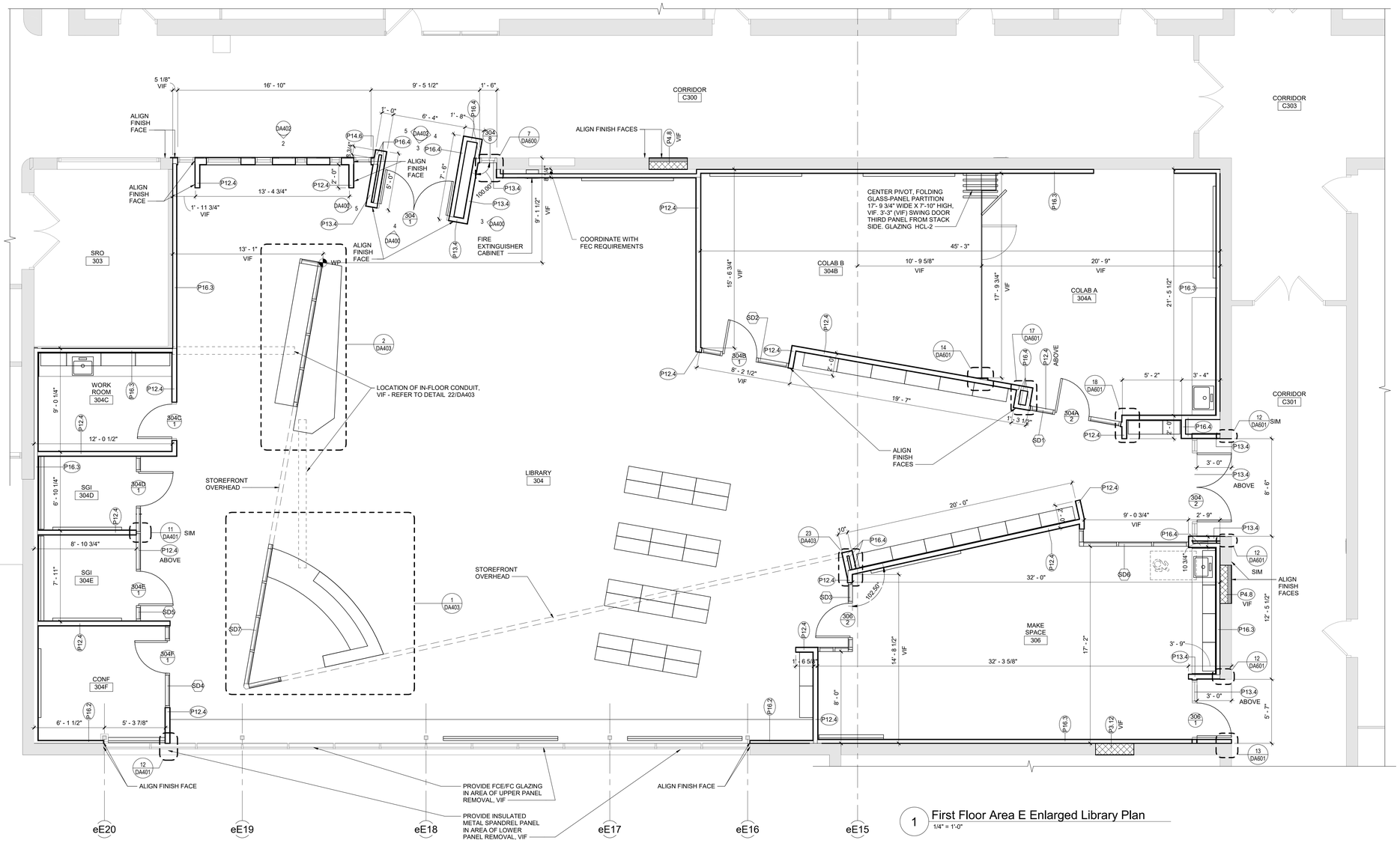
Shrub Oak, New York

Reconstruction to:
Lakeland Copper Beech Middle School

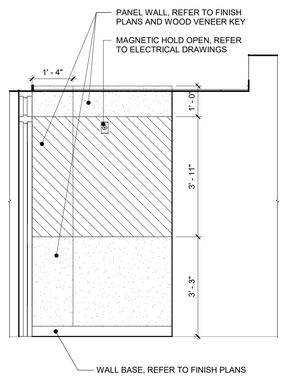
Enlarged Plans and Details

Drawn By:	Date:	Drawing Number:
TLG	10/13/2023	DA401

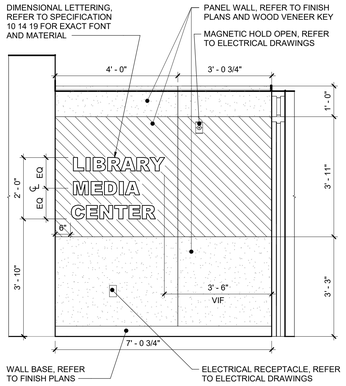
Project No.: 276721-23001



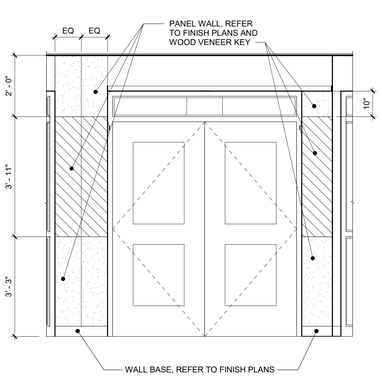
1 First Floor Area E Enlarged Library Plan
1/4" = 1'-0"



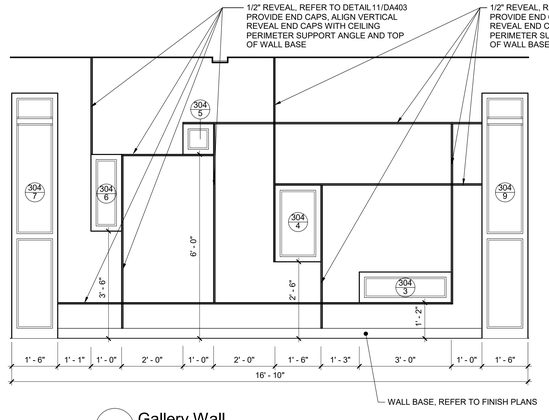
5 Library Entry Elevation
1/2" = 1'-0"



4 Library Entry Elevation
1/2" = 1'-0"



3 Library Entry Elevation
1/2" = 1'-0"



2 Gallery Wall
1/2" = 1'-0"

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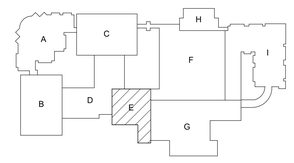
WOOD VENEER TYPE 2



Key Plan
N.T.S.

S.E.D. Control No. 66-24-01-06-0-012-025

Rev. No.:	Date:	Description:

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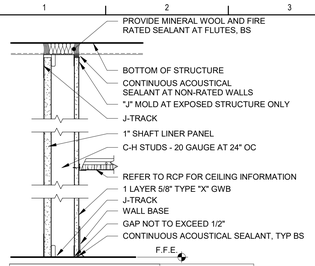
Lakeland Central School District
Shrub Oak, New York

Reconstruction to:
Lakeland Copper Beech Middle School

Enlarged Plans and Interior Elevation

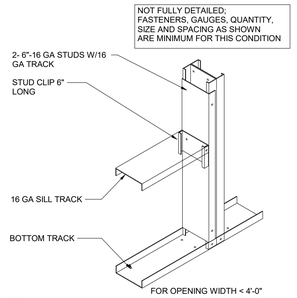
Drawn By:	Date:	Drawing Number:
TLG	10/13/2023	DA402

Project No.: 276721-23001

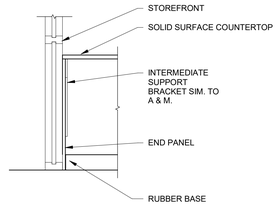


TYPE KEY	KEY LEGEND
P22.2 UL DESIGN #U469 (1 HOUR)	.2 = 2 1/2" C-H STUDS
P22.4 UL DESIGN #U469 (1 HOUR)	.4 = 4" C-H STUDS
P22.6 UL DESIGN #U469 (1 HOUR)	.6 = 6" C-H STUDS

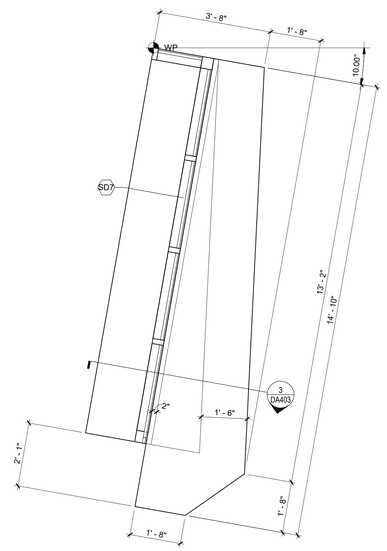
19 Shaft Wall Partition Type P22 (1-Hr)
1 1/2" = 1'-0"



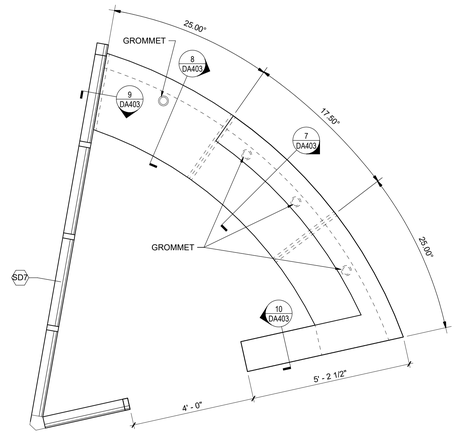
14 Typical Sill to Jamb
3/4" = 1'-0"



9 Counter Detail
3/4" = 1'-0"



2 Enlarged Gallery Bench Plan
1/2" = 1'-0"



1 Enlarged Circulation Desk Plan
1/2" = 1'-0"

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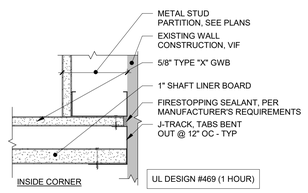
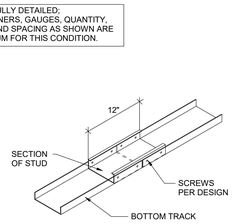
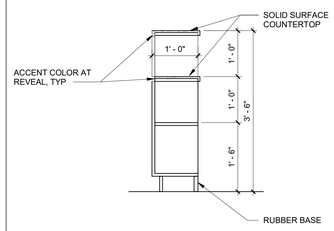


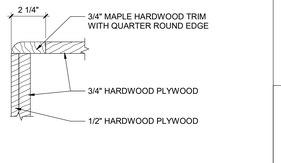
20 Shaft Wall (1-Hr) - Corner Details
3" = 1'-0"



15 Typical Track Splice
3/4" = 1'-0"

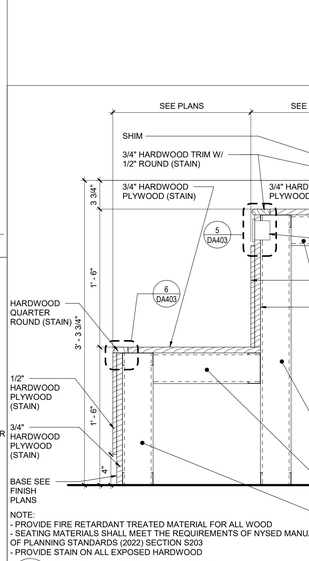


10 Counter Detail
3/4" = 1'-0"



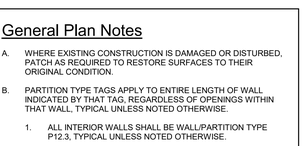
NOTE - PROVIDE STAIN ON ALL EXPOSED HARDWOOD

6 Seating Edge Detail
3" = 1'-0"



NOTE:
- PROVIDE FIRE RETARDANT TREATED MATERIAL FOR ALL WOOD
- SEATING MATERIALS SHALL MEET THE REQUIREMENTS OF NYSED MANUAL OF PLANNING STANDARDS (2022) SECTION S203
- PROVIDE STAIN ON ALL EXPOSED HARDWOOD

3 Section at Gallery Seating
1 1/2" = 1'-0"



Key Plan
N.T.S.

N

S.E.D. Control No. 66-24-01-06-0-012-025

Rev. No.:	Date:	Description:

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Lakeland Central School District
Shrub Oak, New York

Reconstruction to:
Lakeland Copper Beech Middle School

Enlarged Plans and Details

Drawn By:	Date:	Drawing Number:
Author	10/13/2023	DA403

Project No.: 276721-23001

Shaft Wall (1-Hr) - Penetration (Max 8" Diameter)
21 3" = 1'-0"

16 Typ Wall Bridging at Pipe Chase
3/4" = 1'-0"

11 Partition Reveal
3" = 1'-0"

8 Counter Detail
3/4" = 1'-0"

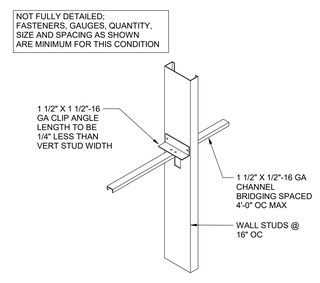
NOTE - PROVIDE STAIN ON ALL EXPOSED HARDWOOD

5 Seating Edge Detail
3" = 1'-0"

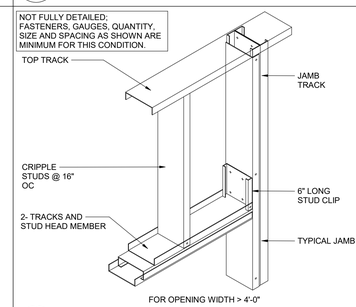
NOTE - PROVIDE STAIN ON ALL EXPOSED HARDWOOD

4 Storefront Edge Detail
3" = 1'-0"

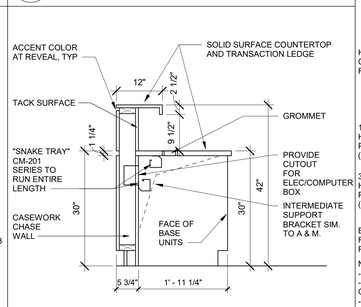
22 In Floor ConduitFloor Cable Duct
3" = 1'-0"



17 Typical Wall Bridging
3/4" = 1'-0"



12 Typ Non-load Bearing Head
3/4" = 1'-0"



7 Transaction Counter Detail
3/4" = 1'-0"

23 Plan Detail
1 1/2" = 1'-0"

18 Typ Non-load Bearing Head (greater than 4)1
3/4" = 1'-0"

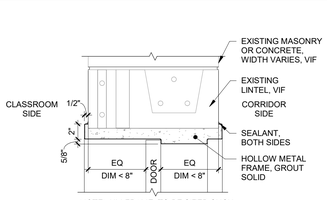
13 Typ Non-load Bearing Head
3/4" = 1'-0"

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																		
100	1	N	WD	3' - 0"	7' - 0"	20 MIN	FP	F2	HM	3' - 4"	7' - 2"	20 MIN	-	H-1	J-1	-	7.0	NOTE 2
103	1	N	WD	3' - 0"	7' - 0"	20 MIN	FP	F2	HM	3' - 4"	7' - 2"	20 MIN	-	H-1	J-1	-	7.0	NOTE 2
103	2	F	WD	3' - 0"	7' - 0"	-	-	F2	HM	3' - 4"	7' - 2"	-	-	H-13	J-13	-	9.0	
113	1	N	WD	3' - 0"	7' - 0"	20 MIN	FP	EXG	EXG	0"	0"	-	-	-	-	-	5.0	
201	1	F	WD	2' - 7 1/2"	7' - 0"	-	-	F2	HM	2' - 11 1/2"	7' - 2"	-	-	H-14	J-14	-	1.0	NOTE 6
201	2	F	WD	2' - 7 1/2"	7' - 0"	-	-	F2	HM	2' - 11 1/2"	7' - 2"	-	-	H-14	J-14	-	1.0	NOTE 6
201	3	N	WD	3' - 0"	7' - 0"	20 MIN	FP	F2	HM	3' - 4"	7' - 2"	20 MIN	-	H-3 SIM	J-3 SIM	-	7.0	NOTE 2
205	1	N	WD	3' - 0"	7' - 0"	20 MIN	FP	F2	HM	3' - 4"	7' - 2"	20 MIN	-	H-1	J-1	-	7.0	NOTE 2
207	1	N	WD	3' - 0"	7' - 0"	20 MIN	FP	F2	HM	3' - 4"	7' - 2"	20 MIN	-	H-1	J-1	-	7.0	NOTE 2
207	2	F	WD	3' - 0"	7' - 0"	-	-	F2	HM	3' - 4"	7' - 2"	-	-	H-13	J-13	-	9.0	
304	1	G2-PR	WD	3' - 0"	7' - 0"	20 MIN	FPC	F8	HM	6' - 4"	8' - 0"	45 MIN	FPC	H-15 SIM	J-16	-	3.0	
304	2	G2-PR	WD	3' - 0"	7' - 0"	20 MIN	FPC	F11	HM	8' - 6"	8' - 0"	45 MIN	FPC	H-15	J-17	-	3.0	
304A	2	G2	AL	3' - 0"	7' - 0"	-	HCL	SD1	AL	0"	0"	-	-	-	-	-	1.0	NOTE 3 AND 4
304B	1	G2	AL	3' - 0"	7' - 0"	-	HCL	SD2	AL	0"	0"	-	-	-	-	-	1.0	NOTE 3 AND 4
304C	1	G2	WD	3' - 0"	7' - 0"	-	FC	F2	HM	3' - 4"	7' - 2"	-	-	H-13	J-13	-	1.0	
304D	1	G2	AL	3' - 0"	7' - 0"	-	HCL	SD5	AL	0"	0"	-	-	-	-	-	1.0	NOTE 3 AND 4
304E	1	G2	AL	3' - 0"	7' - 0"	-	HCL	SD5	AL	0"	0"	-	-	-	-	-	1.0	NOTE 3 AND 4
304F	1	G2	AL	2' - 10"	7' - 0"	-	HCL	SD4	AL	0"	0"	-	-	-	-	-	1.0	NOTE 3 AND 4
306	1	G2	WD	3' - 0"	7' - 0"	20 MIN	FPC	F14	HM	5' - 2"	8' - 0"	45 MIN	FPC	H-15	J-17 AND J-18	-	5.0	
306	2	G2	AL	3' - 0"	7' - 0"	-	HCL	SD3	AL	0"	0"	-	-	-	-	-	1.0	NOTE 3 AND 4
338	1	N	WD	3' - 0"	7' - 0"	20 MIN	FP	F2	HM	3' - 4"	7' - 2"	20 MIN	-	H-3	J-3	-	7.0	NOTE 2
339	1	N	WD	3' - 0"	7' - 0"	20 MIN	FP	F2	HM	3' - 4"	7' - 2"	20 MIN	-	H-3	J-3	-	7.0	NOTE 2
339	2	G2	AL	3' - 6"	7' - 3"	-	FCE/FC	EXG	EXG	0"	0"	-	-	7/DA601	8/DA601	9/DA601	10.0	
339A	1	N	WD	3' - 6"	7' - 0"	20 MIN	FP	F2	HM	3' - 10"	7' - 2"	20 MIN	-	H-3	J-3	-	7.0	NOTE 2
339A	2	G3	FRR	3' - 0"	8' - 0"	45 MIN	-	FRRD1	FRR	6"	0"	60 MIN	-	-	-	-	11.0	NOTE 3, 4 AND 5
339A	3	G3	AL	3' - 0"	8' - 0"	-	-	SD8	AL	0"	0"	-	-	-	-	-	9.0	NOTE 3 AND 4
339B	1	N	WD	3' - 0"	7' - 0"	-	FC	F2	HM	3' - 4"	7' - 2"	-	-	H-13	J-13	-	6.0	
339B	2	N	WD	3' - 0"	7' - 0"	-	FC	F2	HM	3' - 4"	7' - 2"	-	-	H-13	J-13	-	6.0	
WINDOW																		
304	3	-	-	0"	0"	-	-	F22	HM	3' - 0"	1' - 0"	45 MIN	FPC	H-15	J-15	H-15 SIM	-	
304	4	-	-	0"	0"	-	-	F22	HM	1' - 6"	2' - 6"	45 MIN	FPC	H-15	J-15	H-15 SIM	-	
304	5	-	-	0"	0"	-	-	F22	HM	1' - 0"	1' - 0"	45 MIN	FPC	H-15	J-15	H-15 SIM	-	
304	6	-	-	0"	0"	-	-	F22	HM	1' - 0"	2' - 6"	45 MIN	FPC	H-15	J-15	H-15 SIM	-	
304	7	-	-	0"	0"	-	-	F20	HM	1' - 6"	8' - 0"	45 MIN	FPC	H-15	J-15	-	-	
304	8	-	-	0"	0"	-	-	F20	HM	1' - 6"	8' - 0"	45 MIN	FPC	H-15	J-15 AND 7/DA600	-	-	
304	9	-	-	0"	0"	-	-	F20	HM	1' - 6"	8' - 0"	45 MIN	FPC	H-15	J-15	H-15 SIM	-	

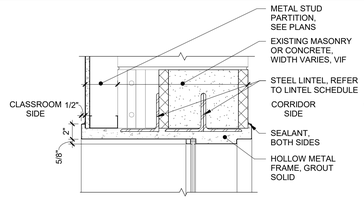
GENERAL NOTES:
- VERIFY ALL DIMENSIONS IN THE FIELD
- REFER TO STOREFRONT ELEVATIONS FOR DETAILS, GLAZING AND FRAME INFORMATION

SPECIFIC NOTES:
1. VERIFY DOOR WIDTH WITH EXISTING DISPLAY CASE WIDTH.
2. HM FRAME TO BE SIZED SUCH THAT THE FACES OF DOOR IS NOT MORE THAN 8" FROM THE FACES OF WALL, VIF
3. REFER TO STOREFRONT ELEVATIONS ON DA601 FOR FRAME GLAZING TYPE
4. REFER TO STOREFRONT ELEVATIONS ON DA601 FOR FRAME DETAILS
5. FIRE RATED ASSEMBLY. HARDWARE PER MANUFACTURER'S REQUIREMENTS
6. PROVIDE 20X15 LOUVER IN DOOR



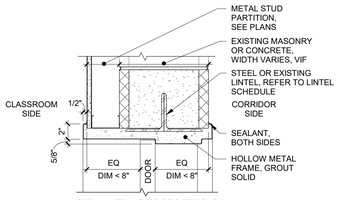
NOTE: HM FRAME TO BE SIZED SUCH THAT THE FACES OF DOOR IS NOT MORE THAN 8" FROM THE FACES OF WALL, VIF

H-1



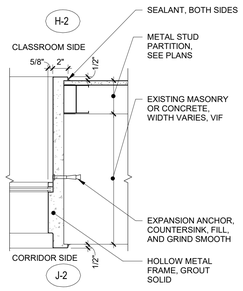
NOTE: HM FRAME TO BE SIZED SUCH THAT THE FACES OF DOOR IS NOT MORE THAN 8" FROM THE FACES OF WALL, VIF

H-3



NOTE: HM FRAME TO BE SIZED SUCH THAT THE FACES OF DOOR IS NOT MORE THAN 8" FROM THE FACES OF WALL, VIF

H-2



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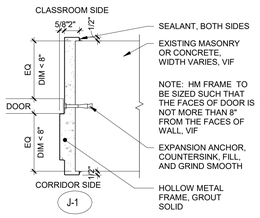
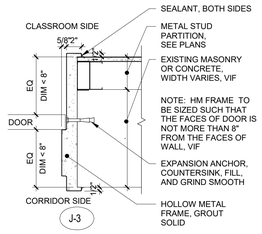
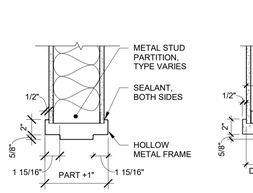


J-1



J-3



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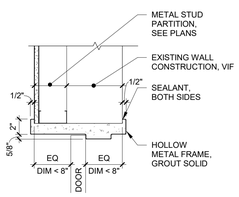

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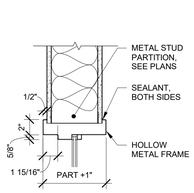
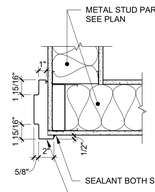
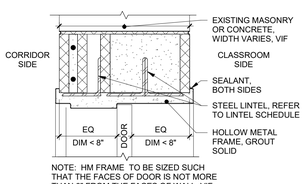


H-15

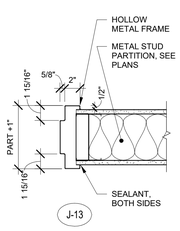


J-16

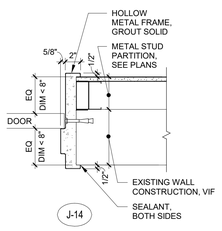


NOTE: HM FRAME TO BE SIZED SUCH THAT THE FACES OF DOOR IS NOT MORE THAN 8" FROM THE FACES OF WALL, VIF

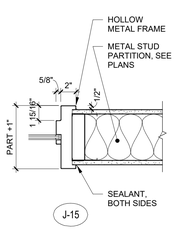
H-4



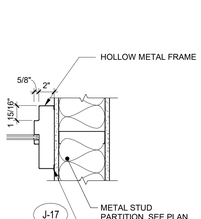
J-13



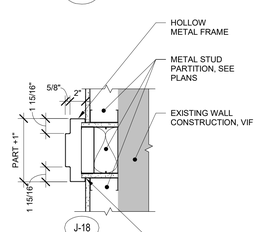
J-14



J-15

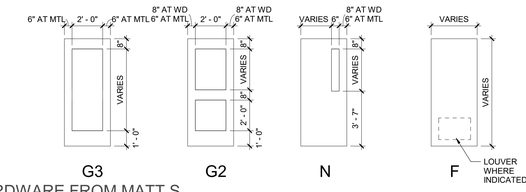


J-17



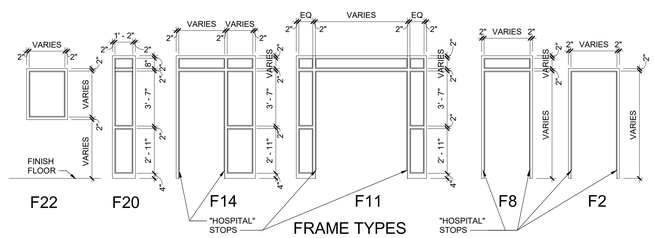
J-18

8 Hollow Metal Frame Details
1 1/2" = 1'-0"

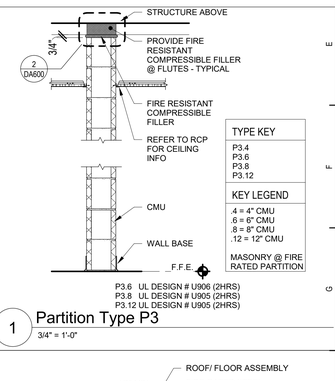


DOOR HARDWARE FROM MATT S

DOOR TYPES

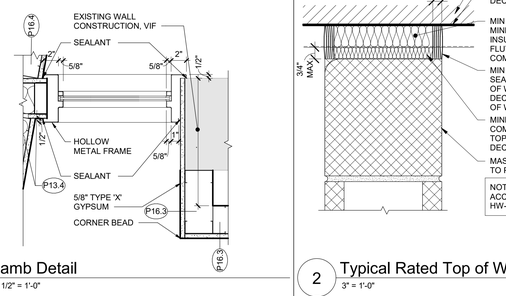


FRAME TYPES

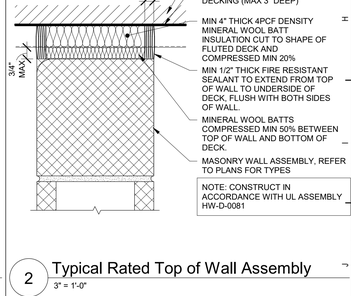


4 Typical Top of Wall Assembly (Rated)
3" = 1'-0"

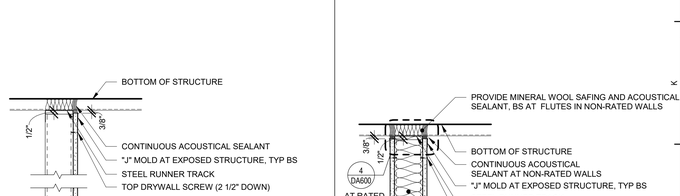
1 Partition Type P3
3/4" = 1'-0"



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



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



6 Metal Stud Partition Type P16
1 1/2" = 1'-0"

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

General Door Notes

A. SEE DWG DA601 FOR ADDITIONAL INFORMATION AND DETAILS.

B. 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.

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

D. ALL DOORS WITH ELECTRO-MAGNETIC HOLD OPEN DEVICES SHALL SWING TOWARDS ADJACENT WALLS. COORDINATE ALL INSTANCES WITH CONTRACTOR RESPONSIBLE FOR ELECTRICAL WORK, AND SEE ELECTRICAL DWGS.

E. ALL DOOR HARDWARE FROM OCCUPIED SPACES SHALL BE OF A TYPE THAT WILL ALWAYS PERMIT THE DOOR TO BE OPENED FROM WITHIN THE SPACE WITHOUT USE OF A KEY.

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

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

H. PAINT ALL HM DOORS AND FRAMES IN ACCORDANCE W/ SECTION 099100.

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

K. PROVIDE WINDOW TREATMENTS AT SIDELIGHTS, EXCLUDING TRANSOM DIRECTLY ABOVE DOORS. REFER TO WINDOW TREATMENT PLANS FOR LOCATIONS.

L. NOTE THAT DUE TO REQUIREMENTS IN THE BCNYS, SOME FIRE RESISTANCE RATINGS MAY DIFFER BETWEEN DOORS (AND ITS GLASS, IF ANY) AND THAT DOOR'S FRAME ESPECIALLY IF THAT FRAME HAS GLASS (SIDELITES; TRANSOMS; ETC).

M. ADDITIONAL DOOR SCHEDULE DESIGNATIONS

- NOT APPLICABLE
NOT APPLICABLE OR TO BE COORDINATED WITH STOREFRONT TYPES

General Window Notes

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

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

C. REFER TO WINDOW TREATMENTS AS SHOWN ON DRAWINGS.

D. GLAZING SYSTEMS FRAME TYPE KEY:

F HOLLOW METAL
S ALUMINUM STOREFRONT
FRR FIRE-RESISTANCE-RATED STOREFRONT

E. 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,

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

Glazing Legend

HATCHED AREA INDICATES AREAS OF HCL-2 LAMINATED GLAZING

HATCHED AREA INDICATES AREAS OF FRI-2 LAMINATED GLAZING

Key Plan
N.T.S.

N

S.E.D. Control No. 66-24-01-06-0-012-025

Rev. No.:	Date:	Description:

complex world | CLEAR SOLUTIONS

BID SET

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

TETRA TECH
ARCHITECTS & ENGINEERS

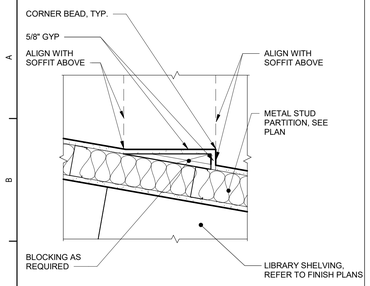
Lakeland Central School District
Shrub Oak, New York

Reconstruction to:
Lakeland Copper Beech Middle School

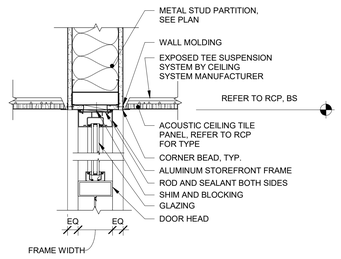
Door Schedule, Door, Window and Wall Types, and Details

Drawn By:	Date:	Drawing Number:
TLG	10/13/2023	DA600

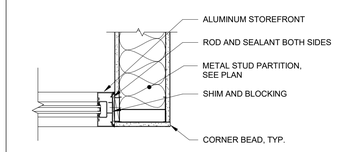
Project No.: 276721-23001



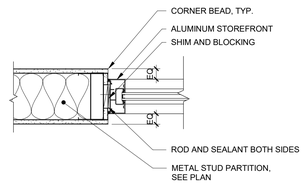
14 Plan Detail
1 1/2" = 1'-0"



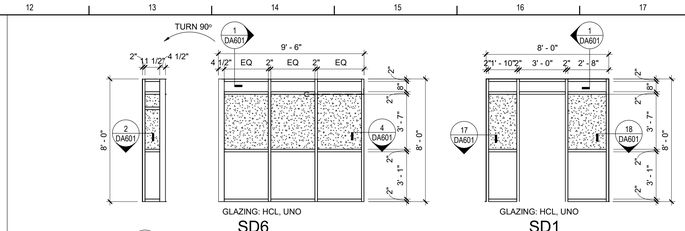
10 Head Detail
1 1/2" = 1'-0"



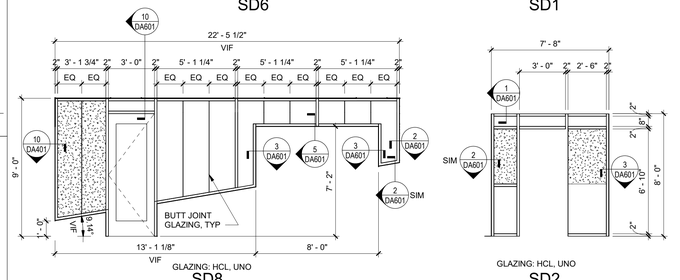
6 Jamb Detail
1 1/2" = 1'-0"



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

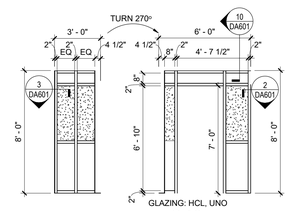


SD6 SD1



SD8

SD2



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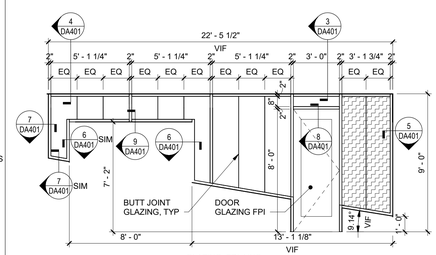

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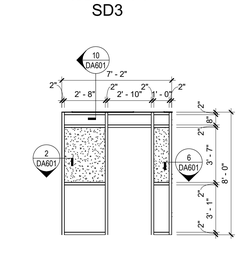

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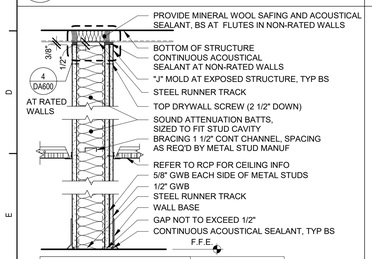
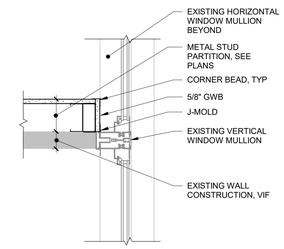
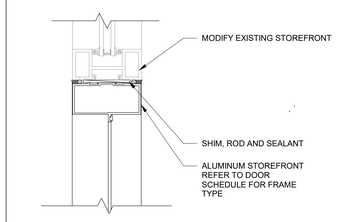


TYPE KEY	KEY LEGEND
P14.3 UL DESIGN #U465 (1 HOUR)	.3 = 3-5/8" MTL STUDS
P14.4 UL DESIGN #U465 (1 HOUR)	.4 = 4" MTL STUDS
P14.6 UL DESIGN #U465 (1 HOUR)	.6 = 6" MTL STUDS

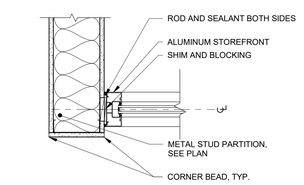
15 Metal Stud Partition Type P14
1 1/2" = 1'-0"



11 Window Partition Detail
1 1/2" = 1'-0"



7 Head Detail
3" = 1'-0"



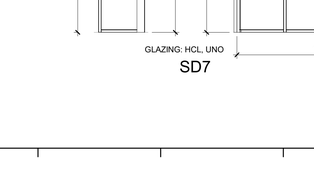
3 Jamb Detail
1 1/2" = 1'-0"

TYPE KEY
P4.4
P4.6
P4.8
P4.12
KEY LEGEND
.4 = 4" CMU
.6 = 6" CMU
.8 = 8" CMU
.12 = 12" CMU
MASONRY @ FIRE RATED PARTITION

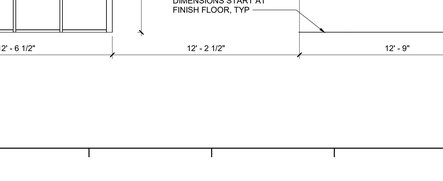
16 Partition Type P4
3/4" = 1'-0"

12 Plan Detail
1 1/2" = 1'-0"

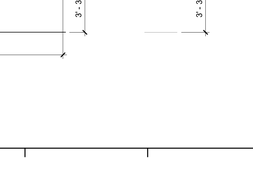
8 Jamb Detail
3" = 1'-0"



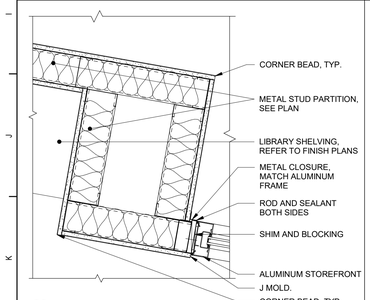
4 Jamb Detail
1 1/2" = 1'-0"



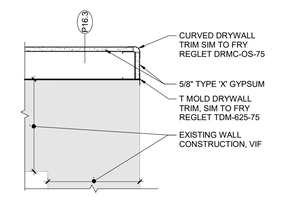
FRRD1



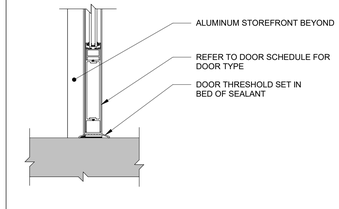
SD4



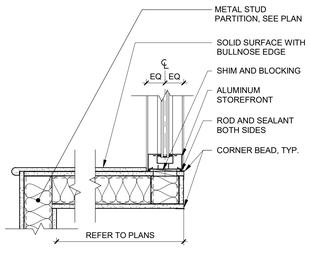
17 Plan Detail
1 1/2" = 1'-0"



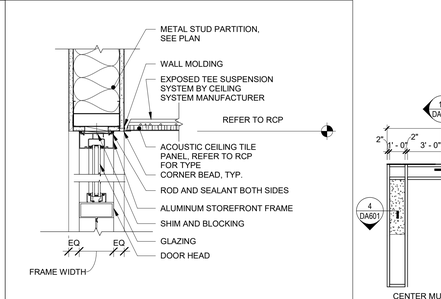
13 Plan Detail
1 1/2" = 1'-0"



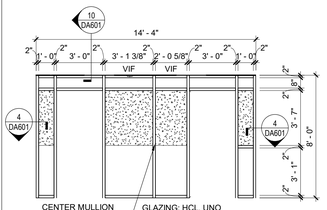
9 Threshold Detail
1 1/2" = 1'-0"



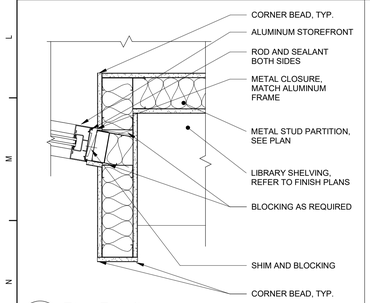
5 Sill Detail
1 1/2" = 1'-0"



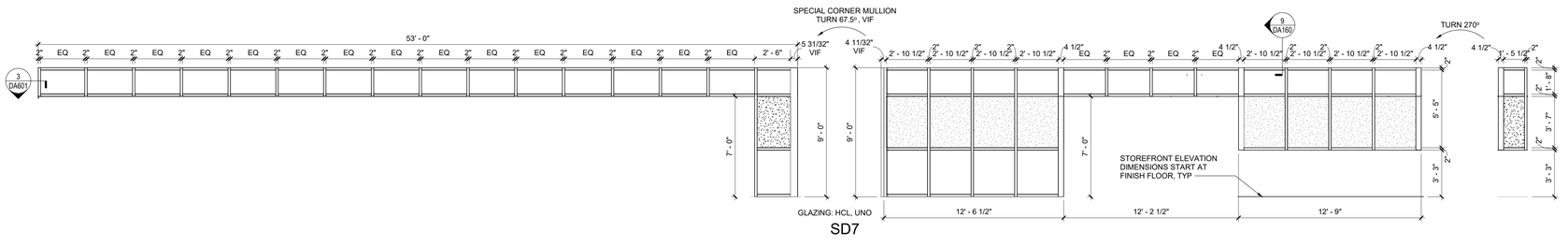
1 Head Detail
1 1/2" = 1'-0"



SD5



18 Plan Detail
1 1/2" = 1'-0"



SD7

General Window Notes

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

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

C. REFER TO WINDOW TREATMENTS AS SHOWN ON DRAWINGS.

D. GLAZING SYSTEMS FRAME TYPE KEY:

F HOLLOW METAL
S ALUMINUM STOREFRONT
FRR FIRE-RESISTANCE-RATED STOREFRONT

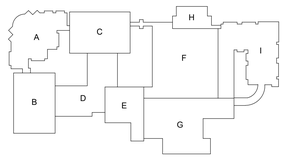
E. PROVIDE INTERNAL STEEL REINFORCEMENT TO WINDOW, STOREFRONT AND CURTAIN WALL SYSTEMS AS REQUIRED TO COMPLY WITH WIND LOADING OR OTHER DESIGN CRITERIA, OR AS RECOMMENDED BY MANUFACTURER,

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

Glazing Legend

HATCHED AREA INDICATES AREAS OF HCL-2 LAMINATED GLAZING

HATCHED AREA INDICATES AREAS OF FRI-2 LAMINATED GLAZING



Key Plan
N.T.S.

N

S.E.D. Control No. 66-24-01-06-0-012-025

Rev. No.:	Date:	Description:

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

BID SET

TETRA TECH
ARCHITECTS & ENGINEERS

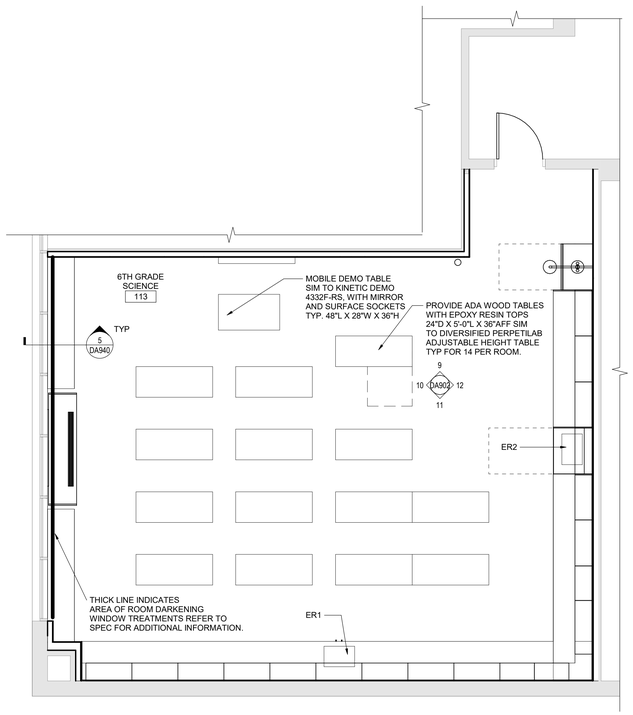
Lakeland Central School District
Shrub Oak, New York

Reconstruction to:
Lakeland Copper Beech Middle School

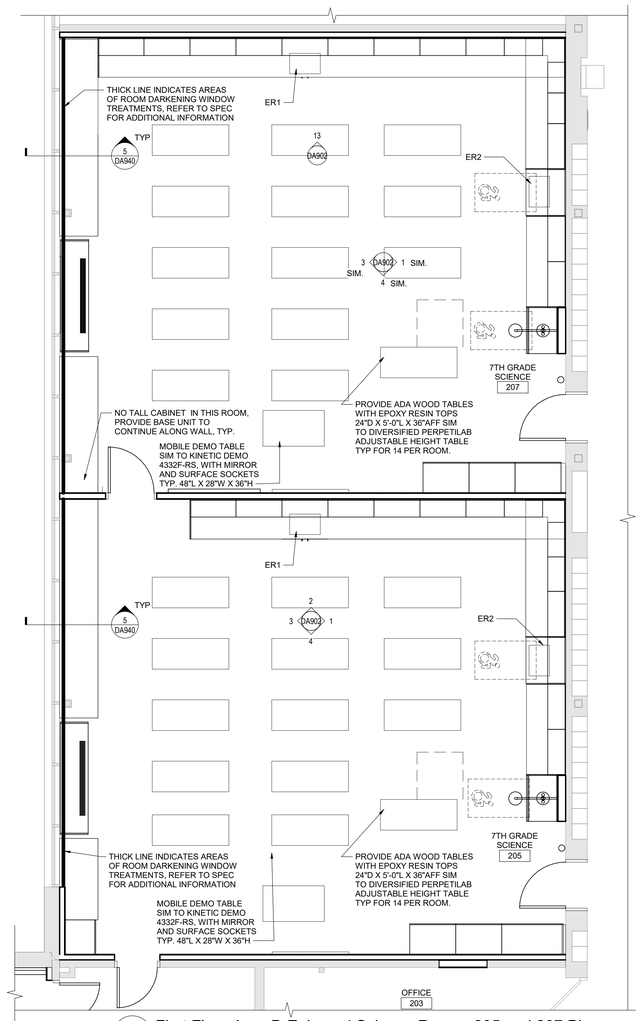
Storefront Types and Details

Drawn By:	Date:	Drawing Number:
TLG	10/13/2023	DA601

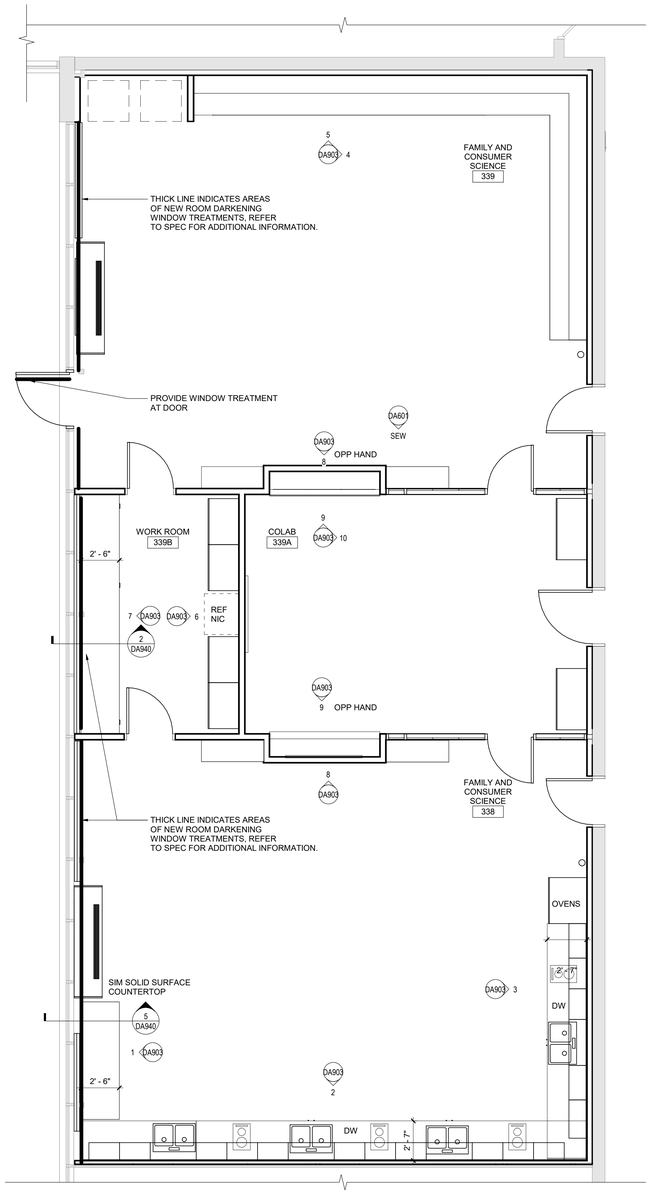
Project No.: 276721-23001



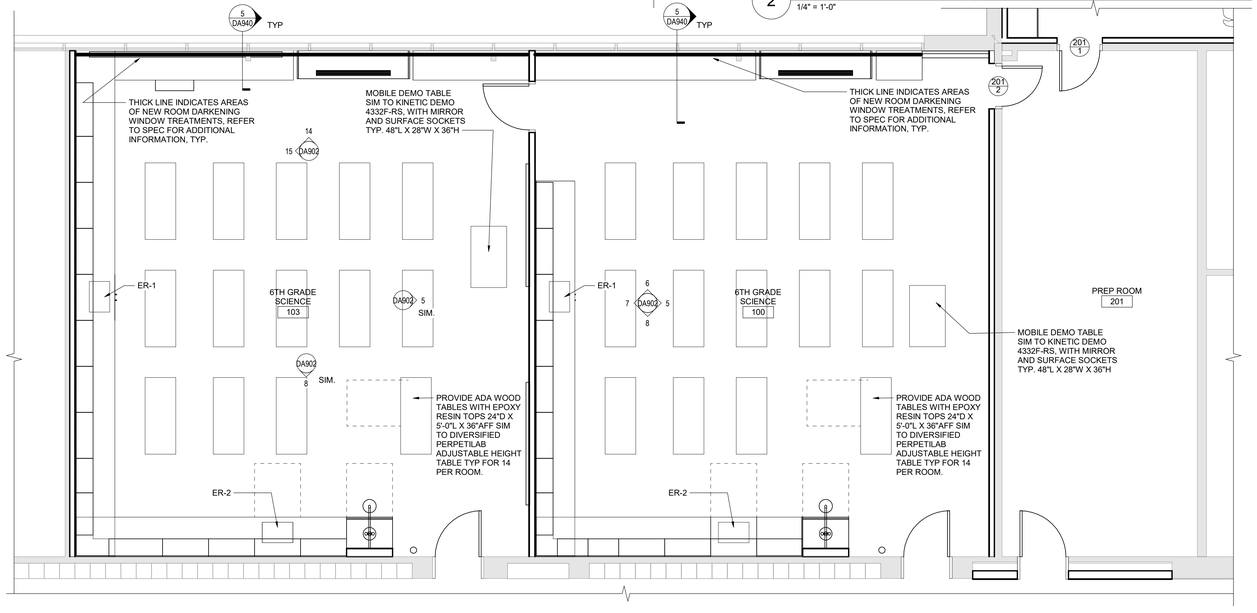
3 First Floor Area B Enlarged Science Room Plan
1/4" = 1'-0"



2 First Floor Area D Enlarged Science Rooms 205 and 207 Plan
1/4" = 1'-0"



1 First Floor Area F Enlarged FACS Plan - ALTERNATE
1/4" = 1'-0" BY ALTERNATE NO CB-01



4 First Floor Area D Enlarged Science Rooms 100 and 103 and Prep room 201 Plan
1/4" = 1'-0"

Window Treatment Key

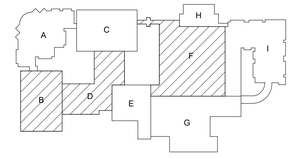
INDICATES AREAS OF ROOM DARKENING WINDOW SHADES

Window Treatment Notes

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

REFER TO DRAWING DA940 FOR WOOD CASEWORK NOTES

REFER TO DRAWING DA931 FOR ROOM FINISH NOTES



Key Plan
N.T.S.

N

S.E.D. Control No. 66-24-01-06-0-012-025

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BID SET

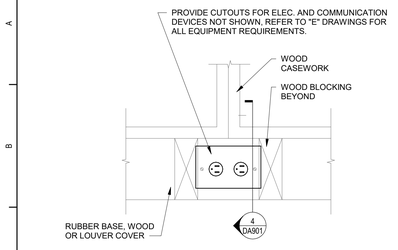
TETRA TECH
ARCHITECTS & ENGINEERS

Lakeland Central School District
Shrub Oak, New York

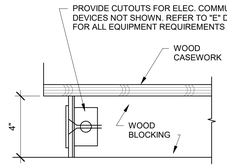
Reconstruction to:
Lakeland Copper Beech Middle School

Enlarged Plans

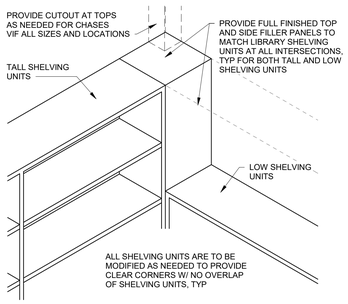
Drawn By:	Date:	Drawing Number:
MHH	10/13/2023	DA900
Project No.: 276721-23001		



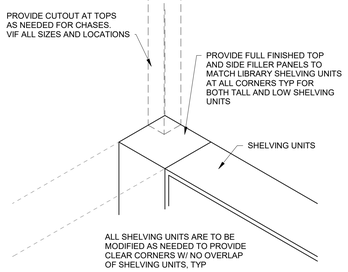
3 Base Outlet Detail @ Book Shelves
3" = 1'-0"



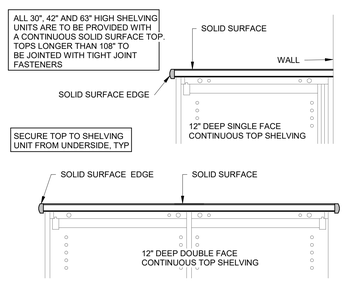
4 Base Outlet Detail @ Book Shelves
3" = 1'-0"



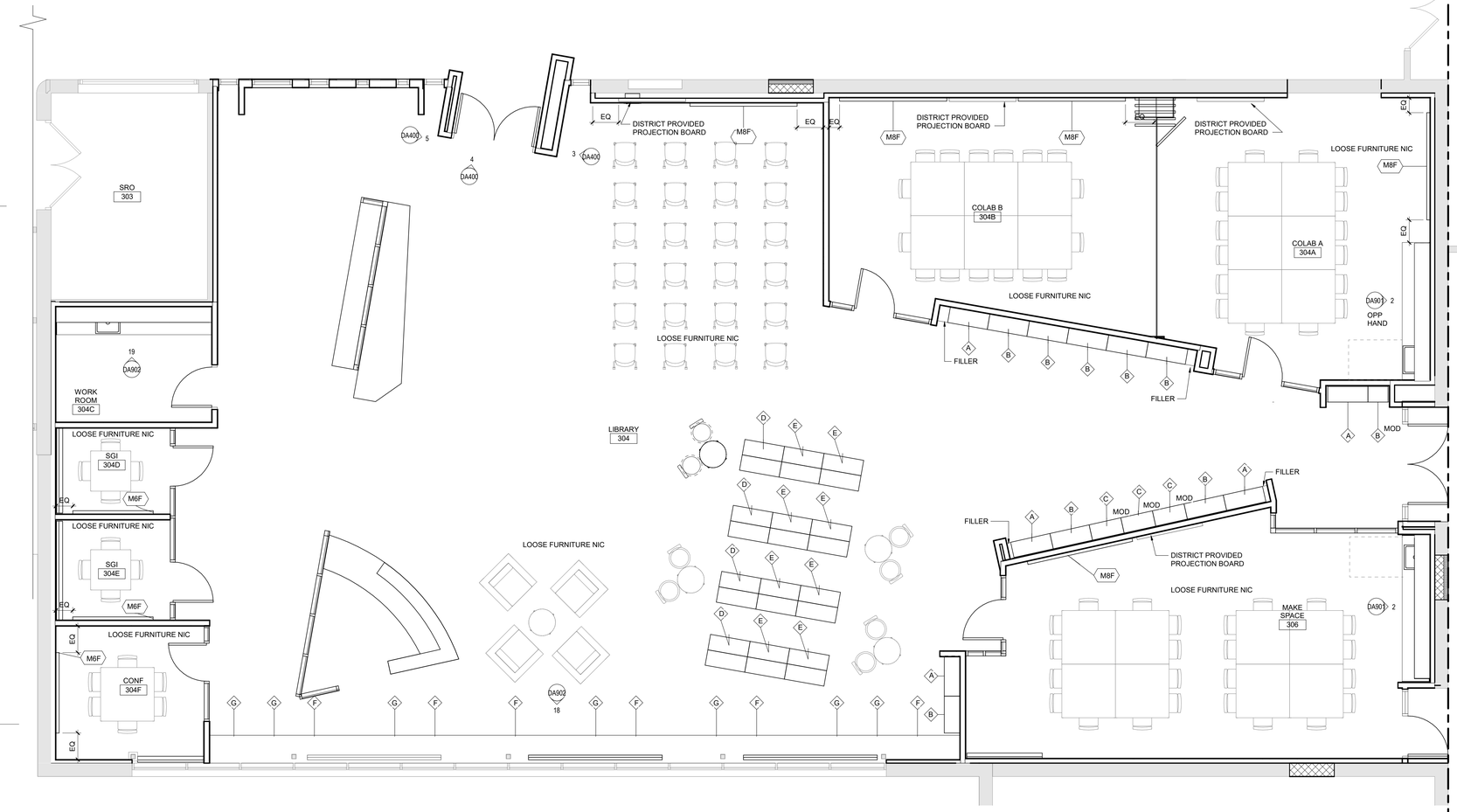
5 Corner Filler @ Library Casework
3/4" = 1'-0"



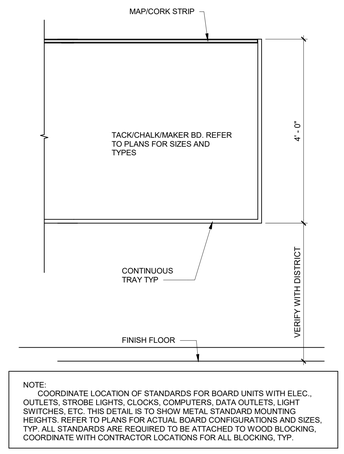
6 Corner FIller @ Library Casework
3/4" = 1'-0"



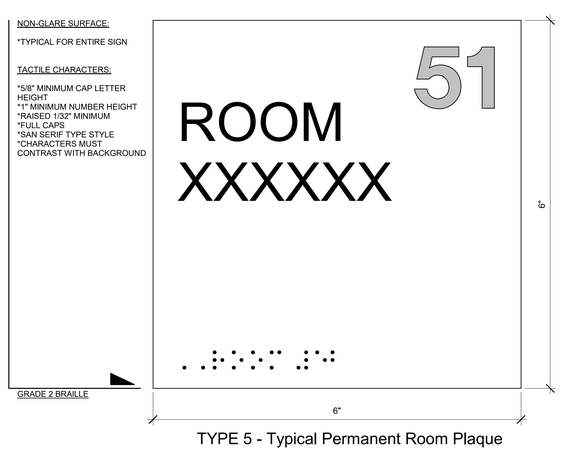
7 Continuous Canopy Top
3/4" = 1'-0"



1 First Floor Plan - Area E
1/4" = 1'-0"

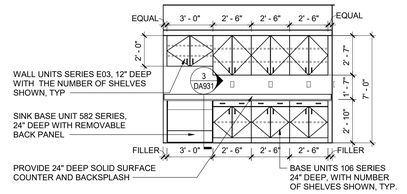


9 Typical Standard Mounting Height
3/4" = 1'-0"



TYPE 5 - Typical Permanent Room Plaque

8 Typical Permenant Room Plaque
12" = 1'-0"



2 MakerSpace 306. 304A, Sim
1/4" = 1'-0"

LIBRARY SHELVING SCHEDULE

A	WORDEN	SHELVING - STARTER	36"W X 82 " H X 14" D	
B	WORDEN	SHELVING - ADDER	36"W X 82" H X 14" D	
C	WORDEN	SHELVING - ADDER	VERIFY EACH LOCATION	MODIFY ARE REQUIRED
D	WORDEN	SHELVING - DOUBLE STARTER	36"W X 42" H X 24" D	PROVIDE WITH SOLID SURFACE TOPS - SEE DETAILS
E	WORDEN	SHELVING - DOUBLE ADDER	36"W X 42" H X 24" D	PROVIDE WITH SOLID SURFACE TOPS - SEE DETAILS
F	WORDEN	SHELVING - STARTER	30"W X 30" H X 14" D	PROVIDE WITH SOLID SURFACE TOPS - SEE DETAILS
G	WORDEN	SHELVING - ADDER	30"W X 30" H X 14" D	PROVIDE WITH SOLID SURFACE TOPS - SEE DETAILS

PROVIDE ADDITIONAL FILLER PANELS AT ALL LOCATIONS TO COMPLETE INSTALL - REFER TO PLANS AND NOTES.
REFER TO DRAWING DA901 FOR LIBRARY SHELVING NOTES.
REFER TO DRAWING DA901 FOR SHELVING TOP DETAIL.
MODIFICATIONS TO SHELVING UNITS IS REQUIRED TO PROVIDE A COMPLETE INSTALLATION.

General Library Notes

A. THE LIBRARY EQUIPMENT SHOWN ARE BASED ON WORDEN REFER TO THE PROJECT MANUAL, SECTION 12 56 51 FOR DETAILED SPECIFICATIONS.

B. ALL SHELVING UNITS, BOTH SINGLE AND DOUBLE ARE TO BE PROVIDE WITH WOOD END PANELS.

C. ALL LIBRARY SHELVING IS TO BE PROVIDED WITH CANOPY TOPS AS LISTED BELOW:

-ALL 30", 42" AND 63" HIGH SHELVING UNITS ARE TO BE PROVIDED WITH A CONTINUOUS SOLID SURFACE TOP WITH SOLID SURFACE EDGE BAND TO MATCH DETAIL.

-ALL 82" AND 96" HIGH SHELVING UNITS ARE TO BE PROVIDED WITH A CANOPY WOOD TOP TO MATCH WORDEN'S SHELVING UNITS.

-ALL SINGLE FACED SHELVING UNITS ARE TO BE FURNISHED AND INSTALLED WITH BACKS AS PER SPECIFICATIONS. SECURE ALL SINGLE FACED SHELVING TO WALLS.

D. PROVIDE SOLID HARDBOARD BACKS FOR ALL SHELVING UNITS UNLESS OTHERWISE NOTED. PROVIDE FINISHED BACK PANELS FOR DOUBLE FACE SHELVING UNITS UNO.

E. PROVIDE FINISHED FILLER PANELS BOTH VERTICAL AND HORIZONTAL ALL FILLER SIZE ARE TO VERIFIED IN FIELD.

F. ALL SHELVING UNITS ARE TO BE FIELD VERIFIED PRIOR TO FABRICATION, MODIFY UNITS AS REQUIRED, SEE DETAILS.

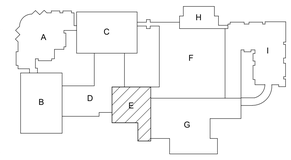
G. PROVIDE SHOP DRAWINGS SHOWING LAYOUTS OF ALL SHELVING, FURNITURE AND EQUIPMENT INCLUDING UV SHELVING UNITS SHOW DETAILS OF GRILLS, LOUVERS AND CHASES.

Board Unit Key

PROVIDE MARKER/CHALK/TACK BOARDS UNITS AS DESIGNATED ON PLANS BY SYMBOLS BELOW. SEE DETAIL 9/DA901 AND SPECIFICATION SECTIONS 10 11 00 FOR ADDITIONAL INFORMATION

M6F 6'-0" L x 4'-0" H LIQUID CHALK BOARD - FIXED
M8F 8'-0" L x 4'-0" H LIQUID CHALK BOARD - FIXED

REFER TO DRAWING DA940 FOR WOOD CASEWORK NOTES
REFER TO DRAWING DA931 FOR ROOM FINISH NOTES



Key Plan
N.T.S.

S.E.D. Control No. 66-24-01-06-0-012-025

Rev. No.:	Date:	Description:

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Reconstruction to:
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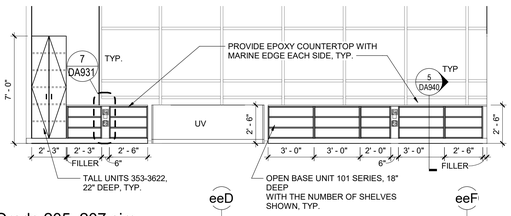
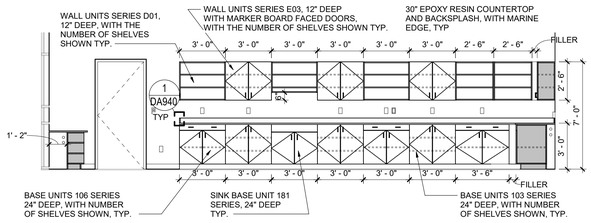
Enlarged Plan

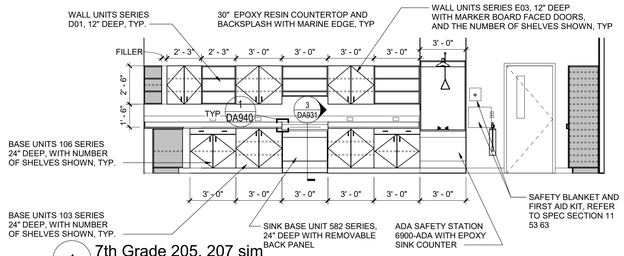
Drawn By:	Date:	Drawing Number:
MHH	10/13/2023	DA901
Project No.: 276721-23001		



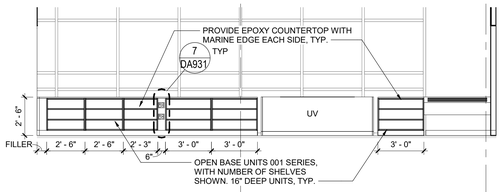
3 7th Grade 205, 207 sim
1/4" = 1'-0"



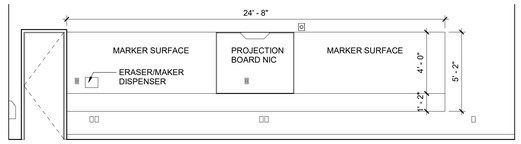
2 7th Grade 205, 207 sim
1/4" = 1'-0"



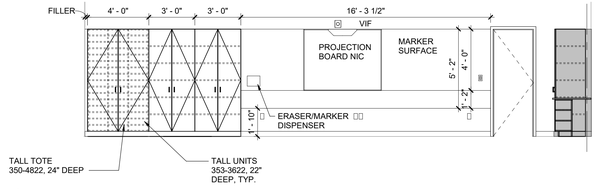
1 7th Grade 205, 207 sim
1/4" = 1'-0"



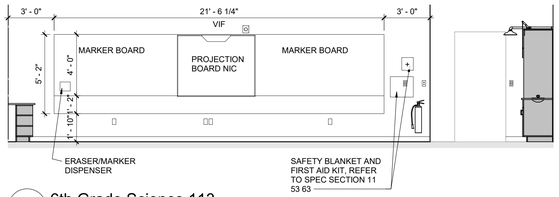
6 6th Grade Science 100, 103 sim
1/4" = 1'-0"



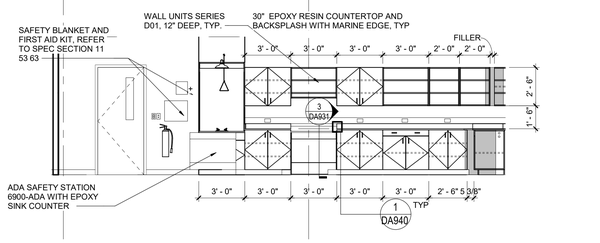
5 6th Grade Science 100, 103 sim
1/4" = 1'-0"



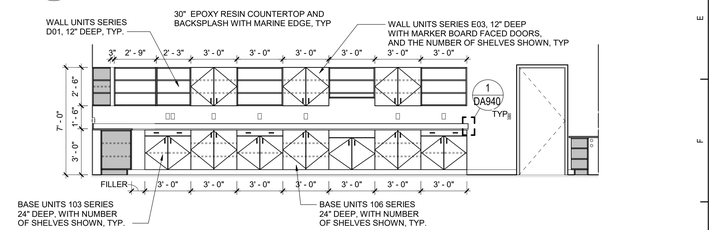
4 7th Grade 205, 207 sim
1/4" = 1'-0"



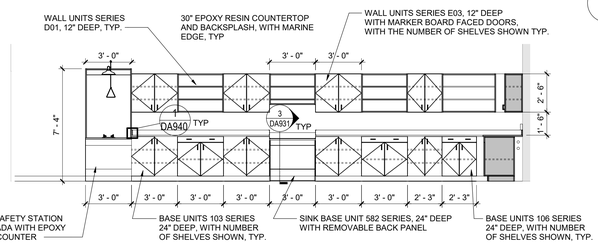
9 6th Grade Science 113
1/4" = 1'-0"



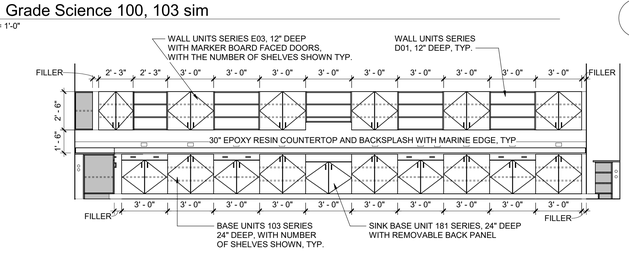
8 6th Grade Science 100, 103 sim
1/4" = 1'-0"



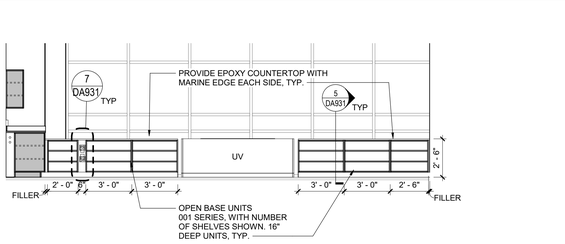
7 6th Grade Science 100, 103 sim
1/4" = 1'-0"



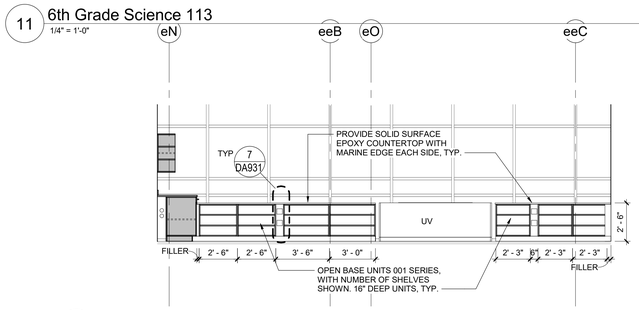
12 6th Grade Science 113
1/4" = 1'-0"



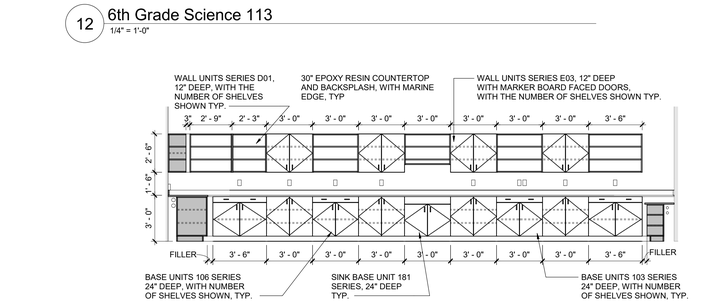
11 6th Grade Science 113
1/4" = 1'-0"



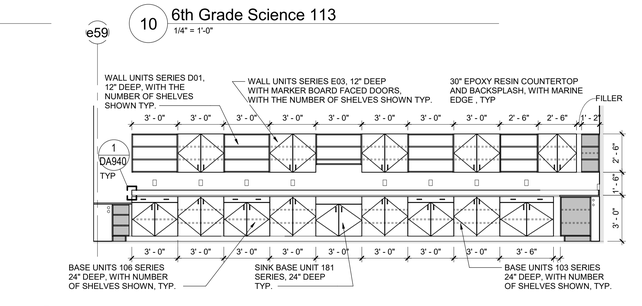
10 6th Grade Science 113
1/4" = 1'-0"



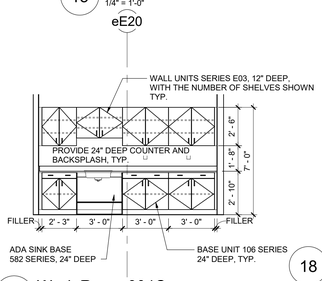
15 6th Grade Science 103
1/4" = 1'-0"



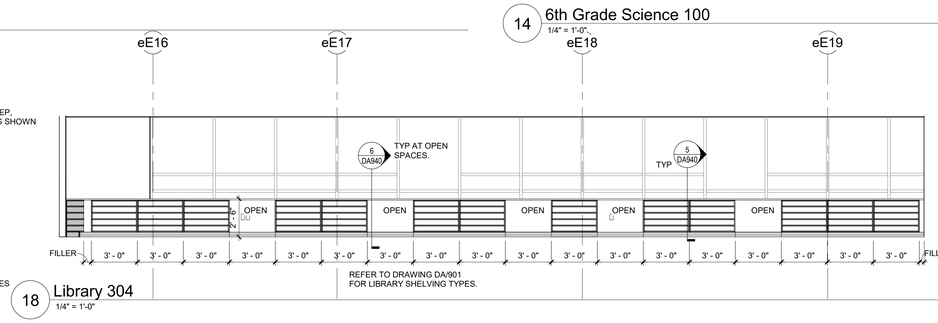
14 6th Grade Science 100
1/4" = 1'-0"



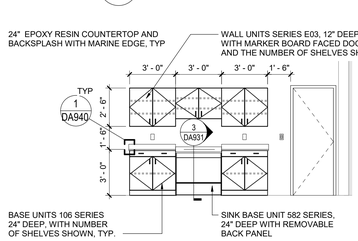
13 7th Grade 207
1/4" = 1'-0"



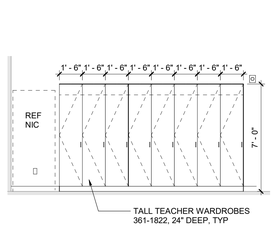
19 Work Room 304C
1/4" = 1'-0"



18 Library 304
1/4" = 1'-0"

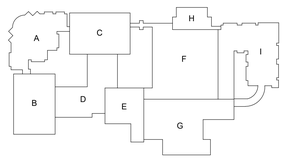


17 Prep 201
1/4" = 1'-0"



16 Prep 201
1/4" = 1'-0"

REFER TO DRAWING DA940 FOR WOOD CASEWORK NOTES
REFER TO DRAWING DA931 FOR ROOM FINISH NOTES



Key Plan
N.T.S.

N

S.E.D. Control No. 66-24-01-06-0-012-025

Rev. No.:	Date:	Description:

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

BID SET

TETRA TECH
ARCHITECTS & ENGINEERS

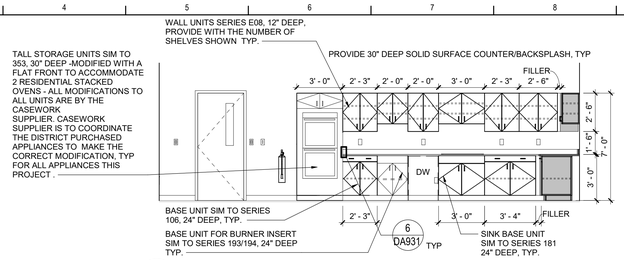
Lakeland Central School District
Shrub Oak, New York

Reconstruction to:
Lakeland Copper Beech Middle School

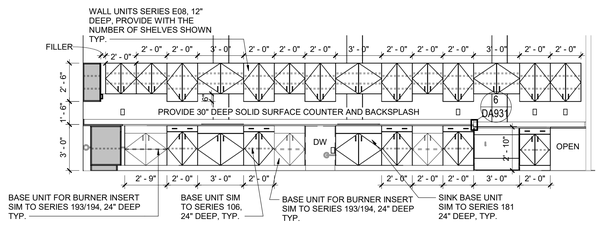
Elevations

Drawn By:	Date:	Drawing Number:
MHH	10/13/2023	DA902

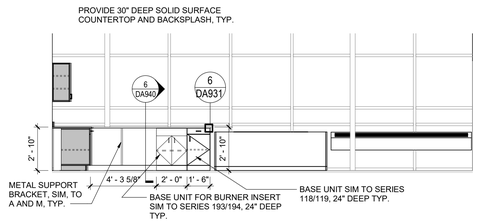
Project No.:
276721-23001



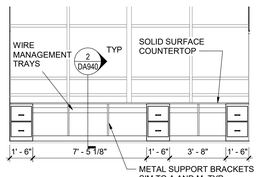
3 FACS 338
1/4" = 1'-0"



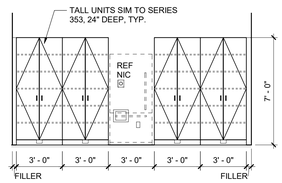
2 FACS 338
1/4" = 1'-0"



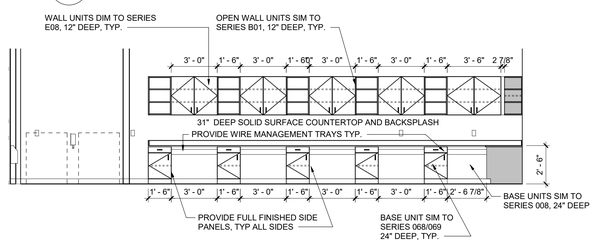
1 FACS 338
1/4" = 1'-0"



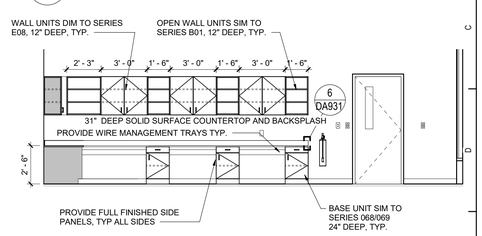
7 Office 339B
1/4" = 1'-0"



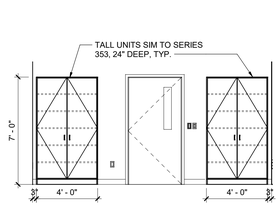
6 Office 339B
1/4" = 1'-0"



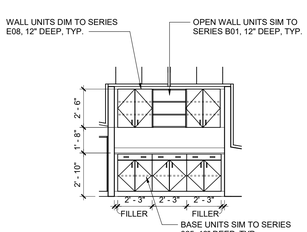
5 FACS 339
1/4" = 1'-0"



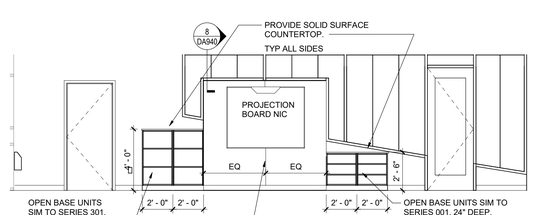
4 FACS 339
1/4" = 1'-0"



10 COLAB 339A
1/4" = 1'-0"

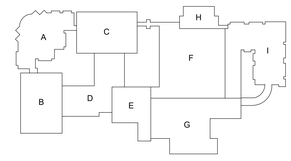


9 COLAB 339A
1/4" = 1'-0"



8 FACS 338, 339 Opp Hand
1/4" = 1'-0"

REFER TO DRAWING DA940 FOR WOOD CASEWORK NOTES
REFER TO DRAWING DA931 FOR ROOM FINISH NOTES



Key Plan
N.T.S.

N

S.E.D. Control No. 66-24-01-06-0-012-025

Rev. No.:	Date:	Description:

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

BID SET

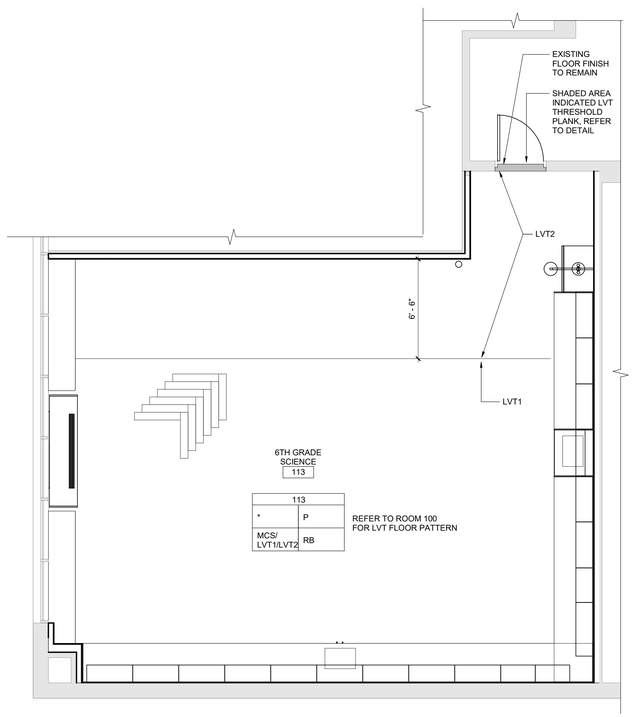
TETRA TECH
ARCHITECTS & ENGINEERS

Lakeland Central School District
Shrub Oak, New York

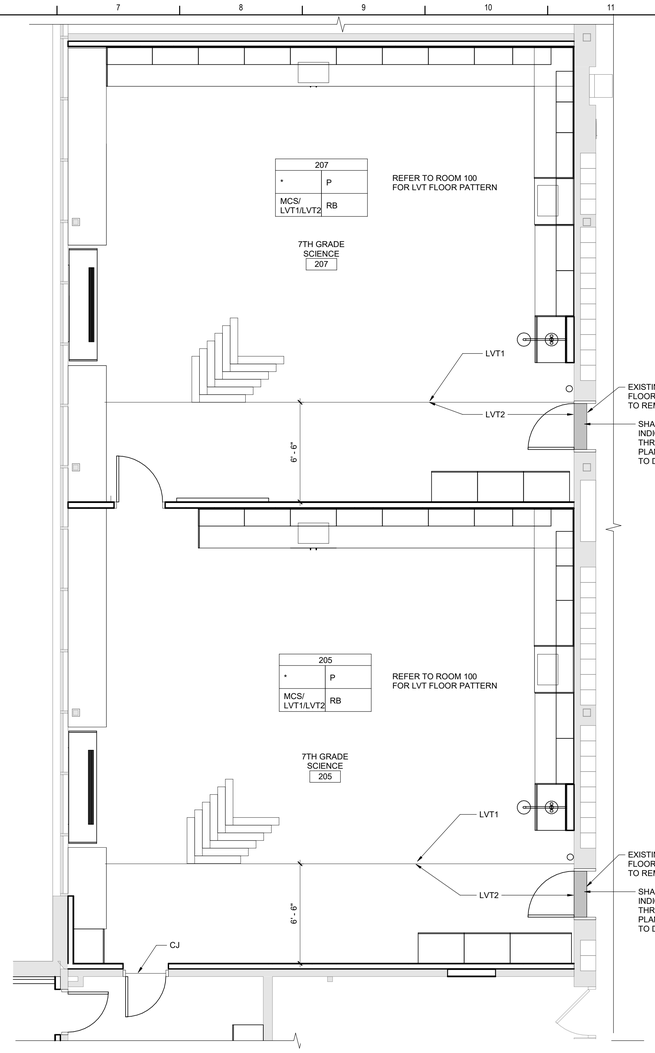
Reconstruction to:
Lakeland Copper Beech Middle School

Elevations

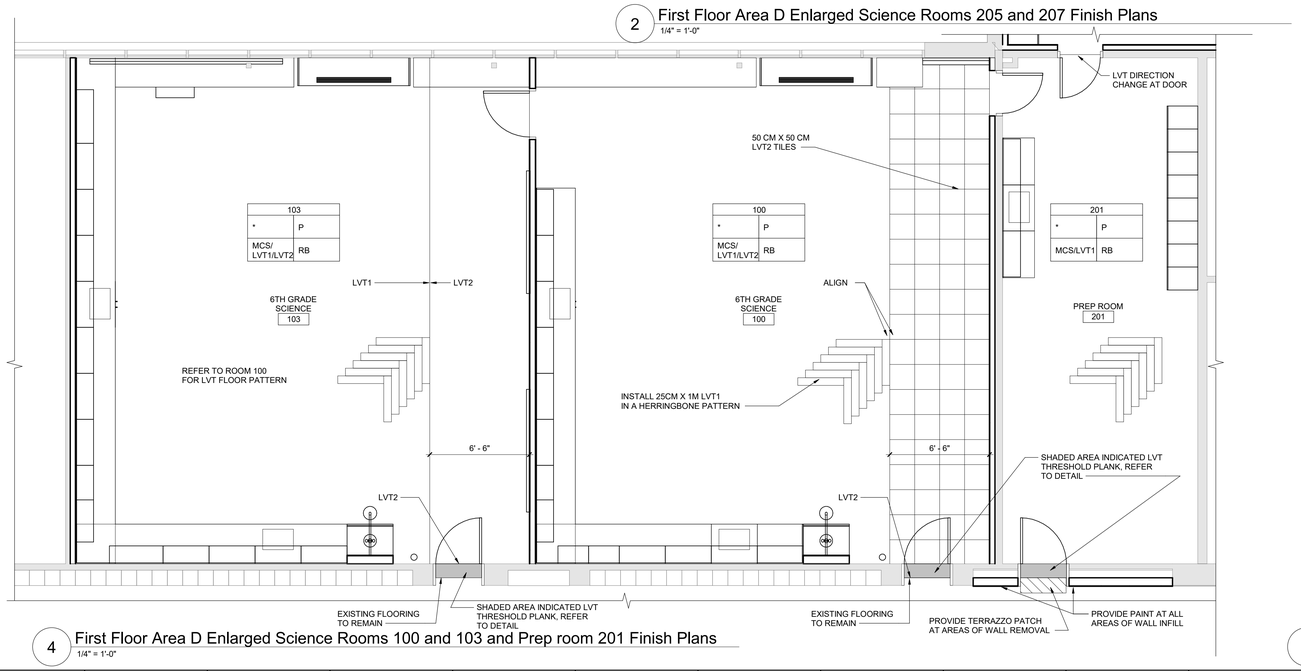
Drawn By:	Date:	Drawing Number:
MHH	10/13/2023	DA903
Project No.: 276721-23001		



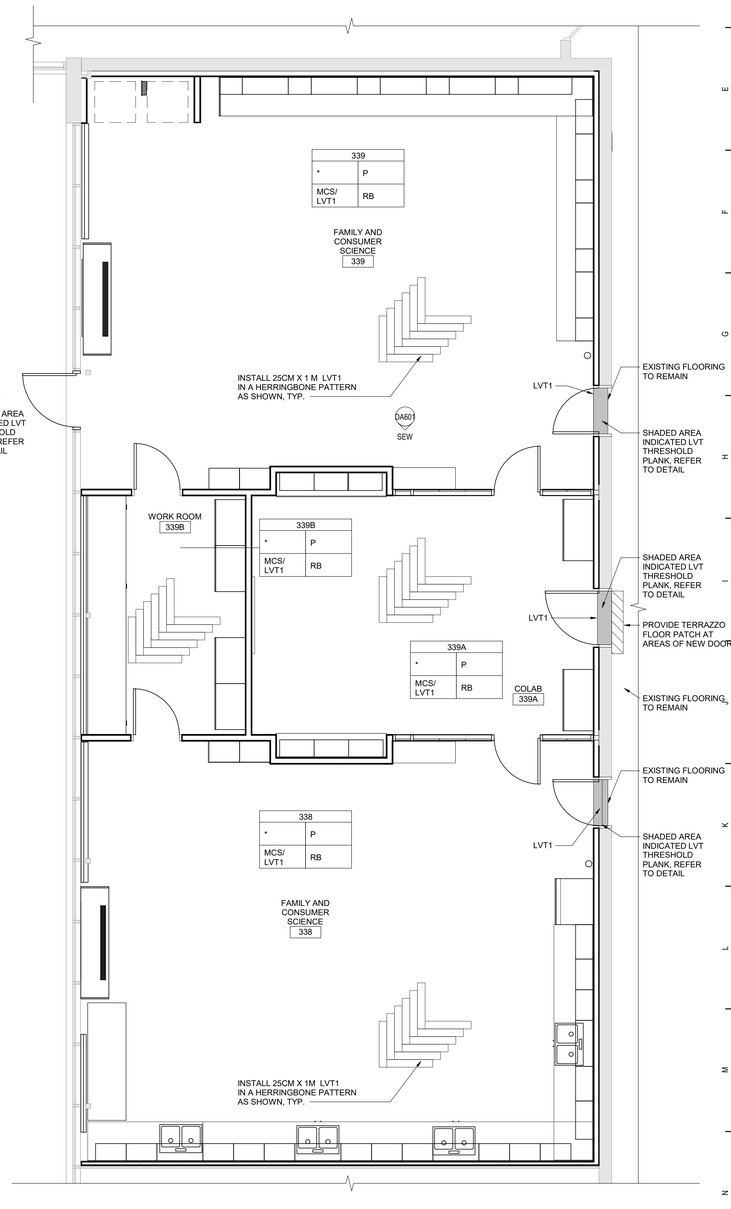
3 First Floor Area B Enlarged Science Room Finish Plan
1/4" = 1'-0"



2 First Floor Area D Enlarged Science Rooms 205 and 207 Finish Plans
1/4" = 1'-0"



4 First Floor Area D Enlarged Science Rooms 100 and 103 and Prep room 201 Finish Plans
1/4" = 1'-0"



1 First Floor Area F Enlarged FACS Finish Plans
1/4" = 1'-0" BY ALTERNATE NO CB-01

Room Finish Key

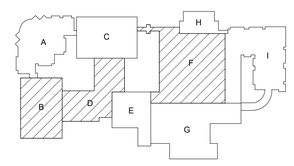
HPC	HIGH PERFORMANCE COATING
LVT1	LUXURY VINYL TILE 1
LVT2	LUXURY VINYL TILE 2
LVT3	LUXURY VINYL TILE 3
MCS	MOISTURE CONTROL SYSTEM (SPEC 03 54 15)
N	NO WORK REQUIRED
P	PAINT SURFACE(S) INCLUDING SOFFITS
RB	RUBBER BASE
T1	TERRAZZO - TYPE 1
TB	TERRAZZO BASE
VCT1	VINYL COMPOSITION TILE - TYPE 1
*	SEE REFLECTED CEILING PLAN
	INDICATED CHANGE IN FLOOR FINISH
~~NOTE~~	ALL FINISHES LISTED MAY NOT BE REQUIRED FOR THIS PROJECT.

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

REFER TO DRAWING DA940 FOR WOOD CASEWORK NOTES

REFER TO DRAWING DA931 FOR ROOM FINISH NOTES



Key Plan
N.T.S.

N

S.E.D. Control No. 66-24-01-06-0-012-025

Rev. No.:	Date:	Description:

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

TETRA TECH
ARCHITECTS & ENGINEERS

Lakeland Central School District
Shrub Oak, New York

Reconstruction to:
Lakeland Copper Beech Middle School

Finish Plans

Drawn By:	Date:	Drawing Number:
MHH	10/13/2023	DA930

Project No.:
276721-23001

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, BEAMS, DOOR/FRAMES - BOTH SIDES GLAZING FRAMES IN DOOR/WALLS- BOTH SIDES, ALL ITEMS ARE TO BE ACCENT COLORS.

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

E. FIELD AND ACCENT PAINT AS 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

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. REFER TO STRUCTURAL DRAWINGS FOR LOCATIONS OF SLAB DEPRESSIONS. REFER TO FINISH MATERIAL SPECIFICATION SECTIONS FOR SLAB DEPRESSION DEPTH REQUIREMENTS.

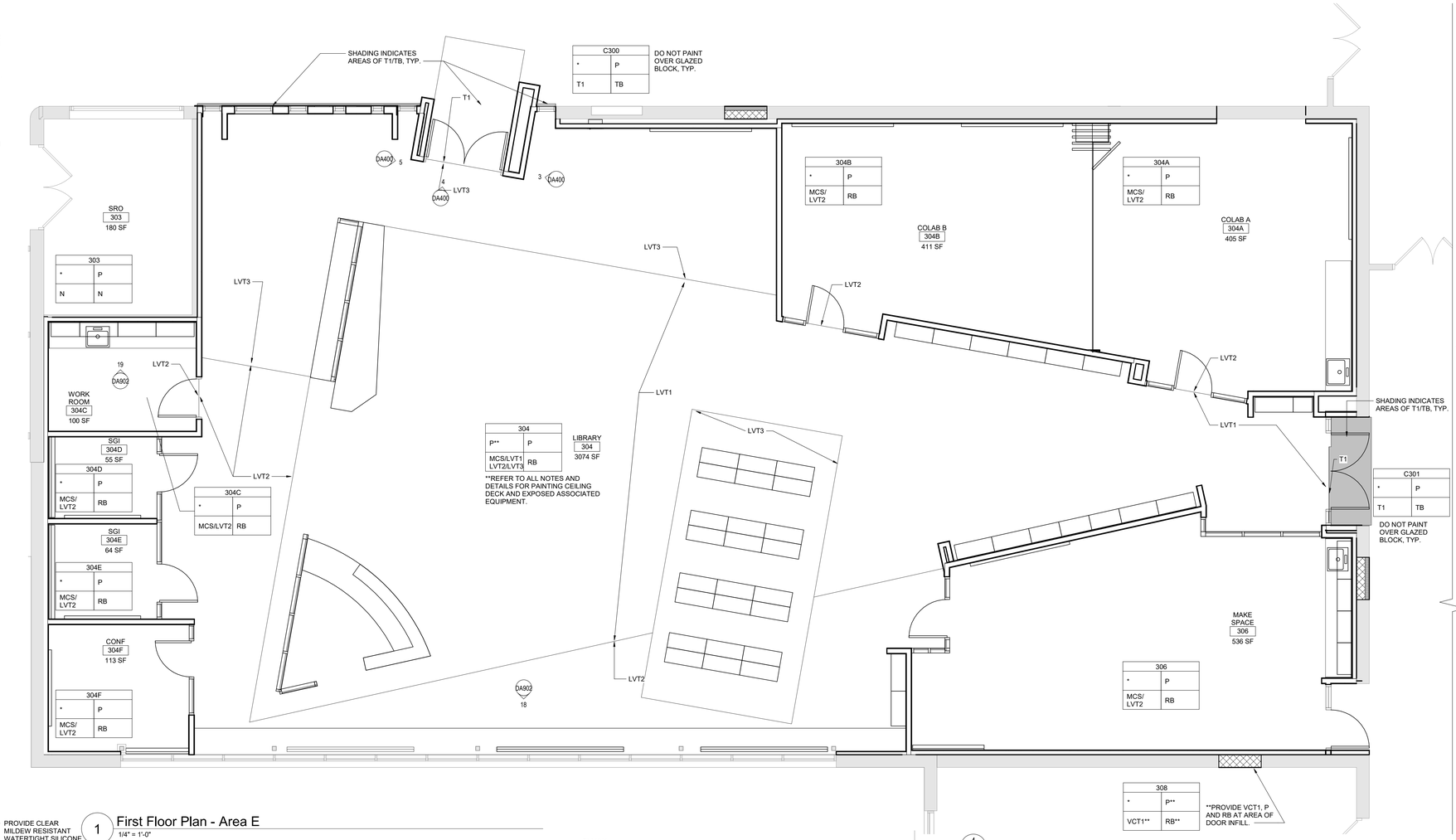
K. CARPET IS TO RUN WALL TO WALL, UNDER ALL FURNITURE, MOVEABLE EQUIPMENT AND LIBRARY SHELVING UNITS, INCLUDING ALL UNITS AT THE PERIMETER WALLS.

L. 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 O1 23 00 ALTERATION PROJECT PROCEDURES FOR MORE INFORMATION.

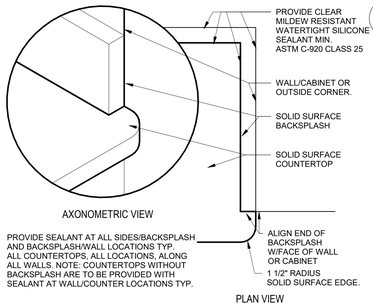
M. FIELD VERIFY ALL CONTROL JOINTS LOCATIONS IN CONCRETE SLAB. LOCATE CONTROL JOINTS IN EXG/NEW FLOOR FINISH MATERIAL DIRECTLY ABOVE SLAB JOINTS OR AS RECOMMENDED BY FLOORING MATERIAL MANUFACTURER.
- AT NEW SLABS REFER TO STRUCTURAL DRAWINGS FOR SLAB CONTROL JOINT LOCATIONS.
- AT EXISTING SLABS, FIELD VERIFY LOCATIONS OF EXISTING SLAB 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.

N. 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.

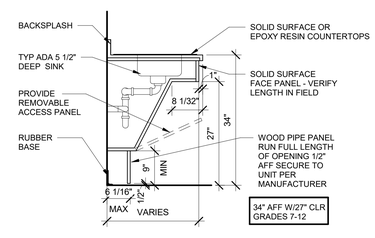
O. PROVIDE ALL FINISHES AS INDICATED BY ROOM FINISH BOX AND/OR AS NOTED ON DRAWINGS.



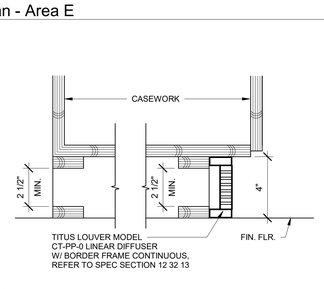
1 First Floor Plan - Area E
1/4" = 1'-0"



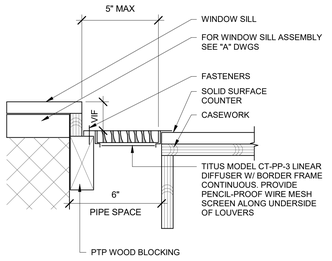
6 Solid Surface Countertop Edge Detail
3" = 1'-0"



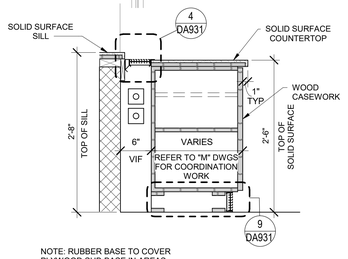
3 ADA Sink Base - Double Sink
3/4" = 1'-0"



9 Base Detail
3" = 1'-0"

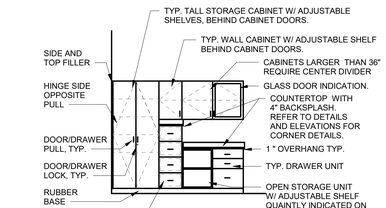


4 Grille Detail
3" = 1'-0"



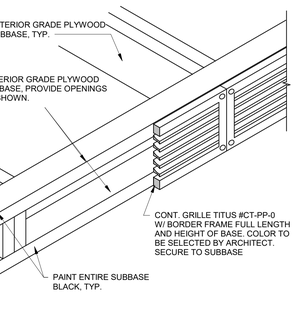
NOTE: RUBBER BASE TO COVER PLYWOOD SUB-BASE IN AREAS WHERE NO LOUVER EXISTS

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

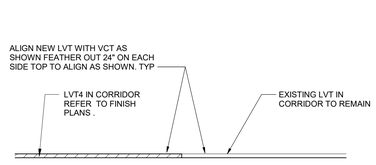


NOTE:
SEE SPECIFICATION SECTION 12 32 13 FOR MORE INFORMATION INCLUDING CONSTRUCTION OF CASEWORK COMPONENTS.

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

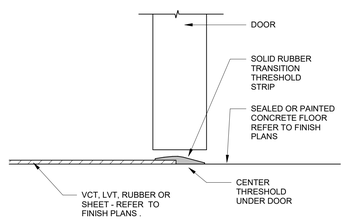


8 Base/ Grille Detail
3" = 1'-0"



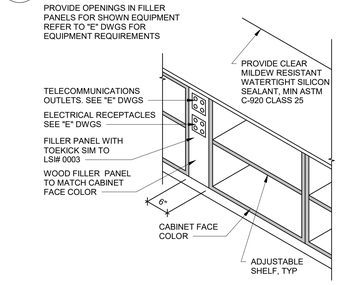
NOTE:
REFER TO SPECIFICATIONS FOR TRANSITION TYPES.
REFER TO FINISH PLANS FOR ALL LOCATIONS, TYPICAL .
THRESHOLD TO MEET ALL ADA CRITERIA
RATED DOOR UNDERCUT DISTANCE TO MEET REQUIRED NFPA CRITERIA.

11 TYP Threshold Detail - LVT to VCT
6" = 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.

10 Threshold Detail
6" = 1'-0"



7 Data Panel Detail
3/4" = 1'-0"

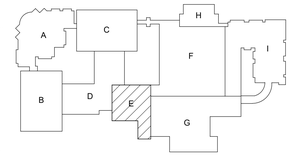
Room Finish Key

HPC	HIGH PERFORMANCE COATING
LVT1	LUXURY VINYL TILE 1
LVT2	LUXURY VINYL TILE 2
LVT3	LUXURY VINYL TILE 3
MCS	MOISTURE CONTROL SYSTEM (SPEC 03 54 15)
N	NO WORK REQUIRED
P	PAINT SURFACE(S) INCLUDING SOFFITS
RB	RUBBER BASE
T1	TERRAZZO - TYPE 1
TB	TERRAZZO BASE
VCT1	VINYL COMPOSITION TILE - TYPE 1
*	SEE REFLECTED CEILING PLAN
	INDICATED CHANGE IN FLOOR FINISH
~~NOTE:~~	ALL FINISHES LISTED MAY NOT BE REQUIRED FOR THIS PROJECT.

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

REFER TO DRAWING DA940 FOR WOOD CASEWORK NOTES



Key Plan
N.T.S.

S.E.D. Control No. 66-24-01-06-0-012-025

Rev. No.:	Date:	Description:

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

BID SET

TETRA TECH ARCHITECTS & ENGINEERS

Lakeland Central School District
Shrub Oak, New York

Reconstruction to:
Lakeland Copper Beech Middle School

Finish Plans

Drawn By:	Date:	Drawing Number:
MHH	10/13/2023	DA931

Project No.: 276721-23001

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 DIVERSIFIED 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. COUNTERTOPS TO BE EPOXY RESIN OR SOLID SURFACE UNLESS NOTED OTHERWISE. BACKSPLASHES TO BE 4" HIGH, TYP. DO NOT PROVIDE BACKSPLASHES AT UV WALL UNLESS NOTED OTHERWISE. PROVIDE CAULK AT ALL JOINTS LOCATIONS, TYP.

H. RADIUS COUNTERTOPS AT 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, 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
-GOGGLE CABINET WITH GOGGLES
-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.

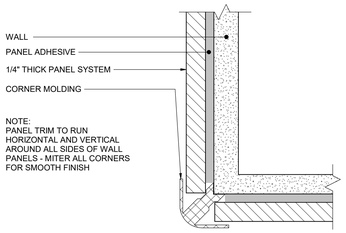
R. PROVIDE LOCKS AT ALL CASEWORK DOORS/DRAWERS AND FILE UNITS TYP.

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

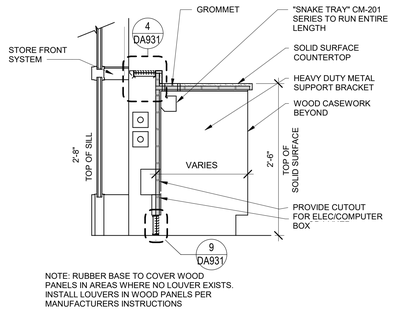
T. PROVIDE ALL CUTOUTS AS SHOWN ON CASEWORK PLANS AND ELEVATIONS OR AS REQUIRED. CUTOUTS ARE TO INCLUDE BUT NOT LIMITED TO: ALL ELEC BOXES, OUTLETS, AND ASSOCIATED WIRING AND FINAL HOOK-UP.

U. PROVIDE REMOVABLE BACK PANELS AT ALL SINK BASE CABINETS, INCLUDING EYEWASH AND SAFETY STATIONS.

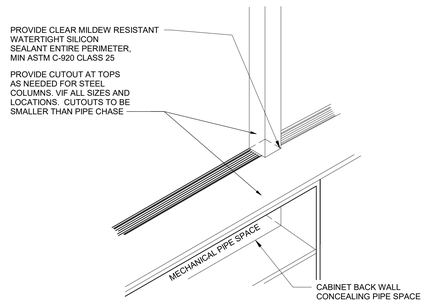
V. REFER TO BOTH 1/8" AND 1/4" PLANS FOR LAYOUTS.



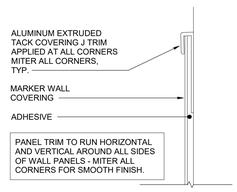
12 Wall System Detail - Corner
12" = 1'-0"



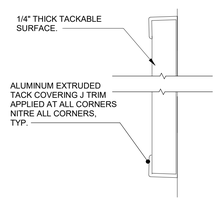
6 Open Casework/ Fin Tube Section
1" = 1'-0"



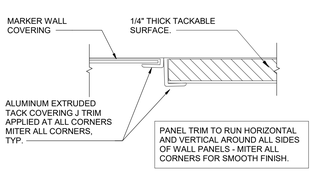
7 Modifications at Steel Columns
3/4" = 1'-0"



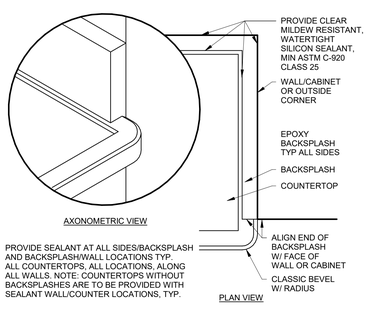
8 TYP Wall Covering Trim Detail-ALL SIDES
12" = 1'-0"



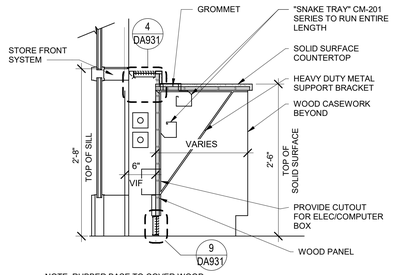
9 Wall Covering Trim Detail
12" = 1'-0"



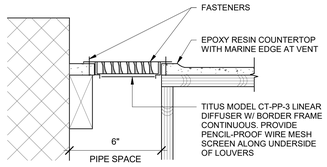
10 Wall Covering Trim Detail
12" = 1'-0"



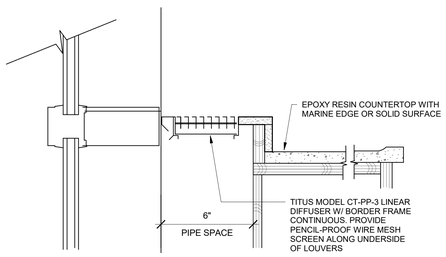
1 Epoxy Countertop Edge Detail
3" = 1'-0"



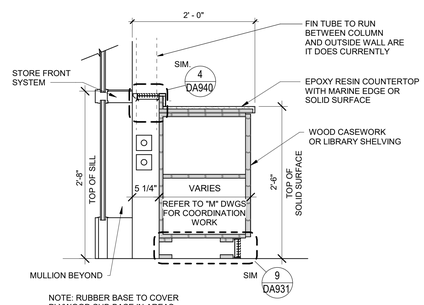
2 Open Casework/ Fin Tube Section at Workroom
1" = 1'-0"



3 Grille Detail
3" = 1'-0"



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

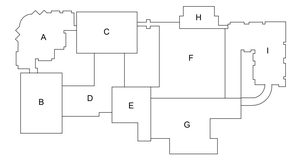


5 Casework/ Chase Section
1" = 1'-0"

TYPE 1 - Typical Maximum Occupancy Plaque
TYPE 1a - Typical Maximum Occupancy Plaque for Courtyard

11 Typical Maximum Occupancy Plaque
3" = 1'-0"

REFER TO DRAWING DA931 FOR ROOM FINISH NOTES



Key Plan
N.T.S.

N

S.E.D. Control No. 66-24-01-06-0-012-025

Rev. No.:	Date:	Description:

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

BID SET

TETRA TECH
ARCHITECTS & ENGINEERS

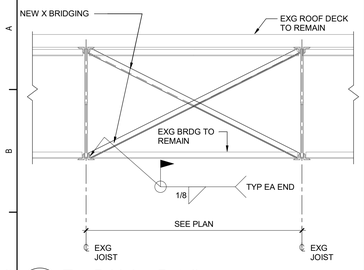
Lakeland Central School District
Shrub Oak, New York

Reconstruction to:
Lakeland Copper Beech Middle School

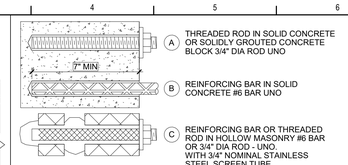
Details

Drawn By:	Date:	Drawing Number:
TTAE	10/13/2023	DA940

Project No.: 276721-23001



10 Typ Bridging Detail
1" = 1'-0"



A THREADED ROD IN SOLID CONCRETE OR SOLIDLY GROUTED CONCRETE BLOCK 3/4" DIA ROD UNO

B REINFORCING BAR IN SOLID CONCRETE #6 BAR UNO

C REINFORCING BAR OR THREADED ROD IN HOLLOW MASONRY #6 BAR OR 3/4" DIA ROD - UNO. WITH 3/4" NOMINAL STAINLESS STEEL SCREEN TUBE

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.

6 Typ Chemical Anchors
3" = 1'-0"

1. FOR 4" THICK WALLS

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

2. FOR 6" THICK WALLS

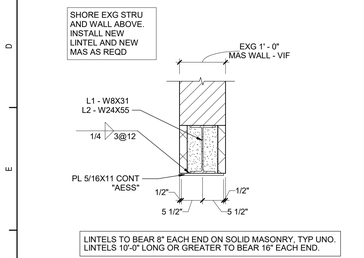
MASONRY OPENING (≤)	LINTEL ANGLE
5'-0"	2- L2 1/2X2 1/2X5/16
6'-0"	2- L3X2 1/2X5/16 LLV
7'-0"	2- L3 1/2X2 1/2X5/16 LLV
8'-0"	2- L3 1/2X2 1/2X5/16 LLV

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

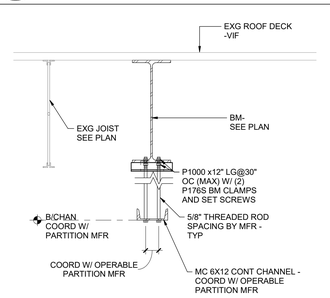
MASONRY OPENING (≤)	LINTEL ANGLE
5'-0"	L3 1/2X3 1/2X5/16
6'-0"	L4X3 1/2X 5/16 LLV
7'-0"	L5X3 1/2X5/16 LLV
8'-0"	L5X3 1/2X5/16 LLV
9'-0"	L6X3 1/2X5/16 LLV
10'-0"	L6X3 1/2X5/16 LLV

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.

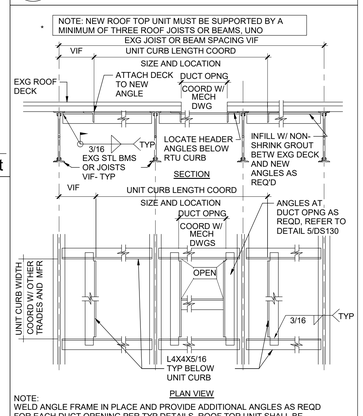
3 Lintel Schedule
12" = 1'-0"



11 Lintels L-1 & L-2
3/4" = 1'-0"



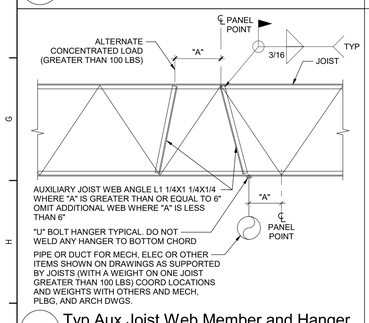
7 Section at Operable Partition
3/4" = 1'-0"



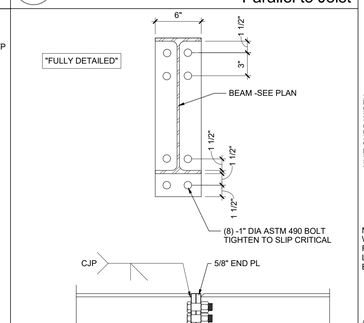
NOTE:
WELD ANGLE FRAME IN PLACE AND PROVIDE ADDITIONAL ANGLES AS REQD FOR EACH DUCT OPENING PER TYP DETAILS. ROOF TOP UNIT SHALL BE LOCATED AS REQD TO ALLOW DUCTS TO PASS BETWEEN EXG JOISTS OR BEAMS. COORD WITH OTHER TRADES, MECH DWGS AND MFR.

LOCATE ROOF TOP UNIT TO ENSURE EXISTING BRIDGING DOES NOT INTERFERE WITH INSTALLATION

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



12 Typ Aux Joist Web Member and Hanger
3/4" = 1'-0"

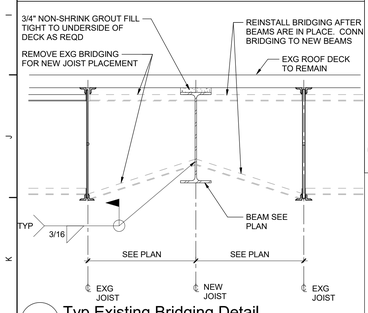


ELEVATION

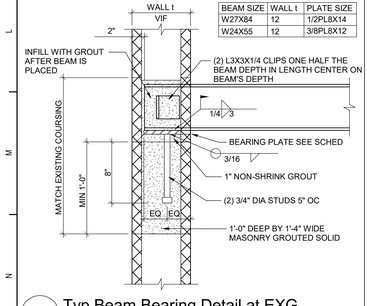
8 Beam Splice Detail
1 1/2" = 1'-0"

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

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

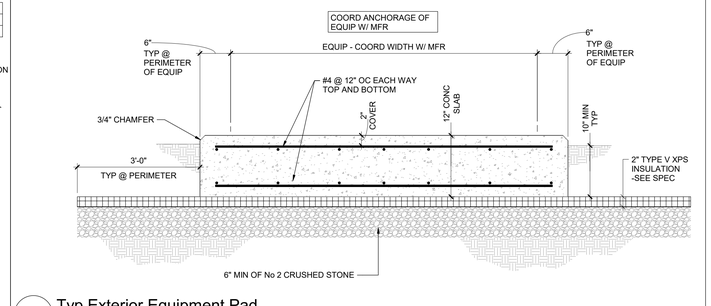


13 Typ Existing Bridging Detail
1" = 1'-0"



BEAM SIZE	WALL t	PLATE SIZE
W27X84	12	1/2PL8X14
W24X55	12	3/8PL8X12

14 Typ Beam Bearing Detail at EXG
1 1/2" = 1'-0"



9 Typ Exterior Equipment Pad
1" = 1'-0"

COMPONENTS & CLADDING WIND PRESSURE (PSF)

MEAN ROOF HEIGHT, "h" (FT)	EFFECTIVE WIND AREA (SQ FT)	ROOF										WALLS			
		ZONE 1'		ZONE 1		ZONE 1/1'	ZONE 2			ZONE 3			ZONE 4		ZONE 5
		MIDDLE INTERIOR		INTERIOR		OVERHANG	EDGE		OVERHANG	CORNER		OVERHANG	INTERIOR		CORNER
14.67	≤ 10	-24.5	16.0	-42.7	16.0	-38.6	-56.3	24.5	-52.2	-56.3	24.5	-52.2	-26.5	24.5	-32.7	24.5
	20	-24.5	16.0	-39.8	16.0	-37.9	-52.7	23.4	-47.4	-52.7	23.4	-47.4	-25.5	23.4	-30.5	23.4
	50	-24.5	16.0	-36.1	16.0	-37.0	-47.9	22.0	-41.0	-47.9	22.0	-41.0	-24.0	22.0	-27.6	22.0
	100	-24.5	16.0	-33.3	16.0	-36.3	-44.3	20.9	-36.2	-44.3	20.9	-36.2	-22.9	20.9	-25.5	20.9
	≥ 500	-16.6	16.0	-26.8	16.0	-25.0	-35.9	18.4	-25.0	-35.9	18.4	-25.0	-20.4	18.4	-20.4	18.4

NOTES:

1. MEAN ROOF HEIGHT IS MEASURED ABOVE DATUM FFE, ELEVATION = 100'-0".

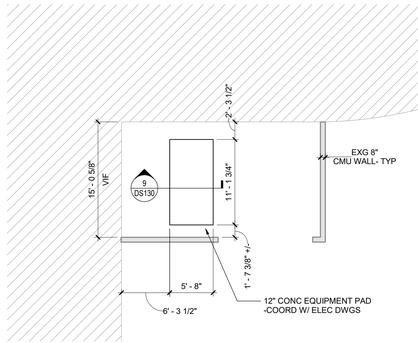
2. REFER TO ASCE 7-16 FOR DEFINITION OF TERMS. FOR THE DIMENSIONS OF EACH ZONE, REFERENCE FIGURE 30.4-1 IN ASCE 7-16 AND USE "h" FROM ABOVE TABLE TO DETERMINE 0.6h AND 0.2h.

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.

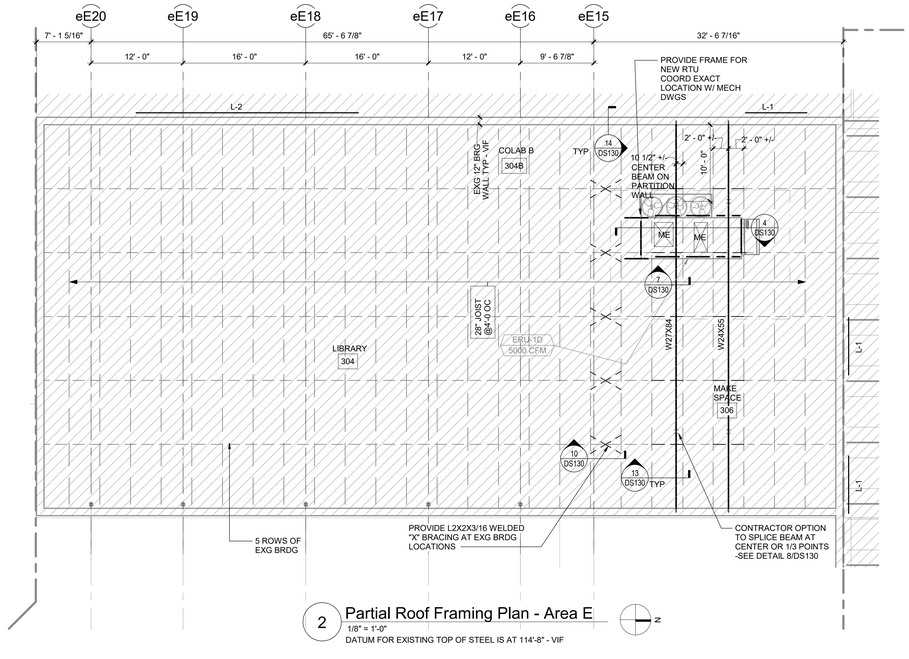
4. FOR EFFECTIVE WIND AREA VALUES LISTED IN THE TABLE ABOVE, PRESSURE VALUES MAY INTERPOLATED; OTHERWISE USE THE VALUE ASSOCIATED WITH THE LOWER EFFECTIVE WIND AREA.

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 Foundation Plan Area G
1/8" = 1'-0"



2 Partial Roof Framing Plan - Area E
1/8" = 1'-0"
DATUM FOR EXISTING TOP OF STEEL IS AT 114'-8" - VIF

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.

Structural Loads:

A. FLOOR LIVE LOADS PER BCNYS 1607

OCCUPANCY OR USE	UNIFORM	CONCENTRATED
FIRST FLOOR CORRIDORS	100 PSF	1000 LBS
LIBRARY		
READING ROOMS	60 PSF	1000 LBS
STACK ROOMS (WITH LIMITATIONS PER TABLE 1607.1 NOTE b.)	150 PSF	1000 LBS

REDUCTION IN LIVE LOADS HAS BEEN APPLIED WHERE PERMITTED PER 1607.11

B. ROOF LIVE LOADS PER BCNYS 1607.13

MINIMUM ROOF LIVE LOAD	20 PSF

C. RAIN LOADS PER BCNYS 1611

RAIN INTENSITY, i	2.75 IN/HR

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

D. SNOW LOADS PER BCNYS 1608

GROUND SNOW, P_g (FIGURE 1608.2)	30 PSF
FLAT ROOF SNOW LOAD, P_f (ASCE 7)	22 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

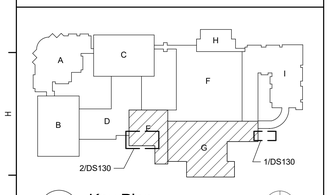
ADDITIONAL SNOW LOADS HAVE BEEN APPLIED TO AREAS WHERE DRIFTING OCCURS IN ACCORDANCE WITH BCNYS 1608.

E. WIND LOAD DESIGN CRITERIA PER BCNYS 1609

BASIC DESIGN WIND SPEED (3 SECOND GUST), V	122 MPH
ALLOWABLE STRESS DESIGN WIND SPEED, V_{asd}	94.5 MPH
RISK CATEGORY	I I I
EXPOSURE CATEGORY	B
INTERNAL PRESSURE COEFFICIENT, GCP,	+/- 0.18

F. 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	0.273%g
AT 1 SECOND PERIODS, S_1	0.06 %g
SITE CLASS	D (DEFAULT)
DESIGN SPECTRAL RESPONSE ACCELERATION	
AT SHORT PERIODS, S_{DS}	0.288 %g
AT 1 SECOND PERIODS, S_{D1}	0.096 %g
SEISMIC DESIGN CATEGORY	B



Key Plan
N.T.S.

S.E.D. Control No. 66-24-01-06-0-012-025

Rev. No.:	Date:	Description:

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

BID SET

TETRA TECH
ARCHITECTS & ENGINEERS

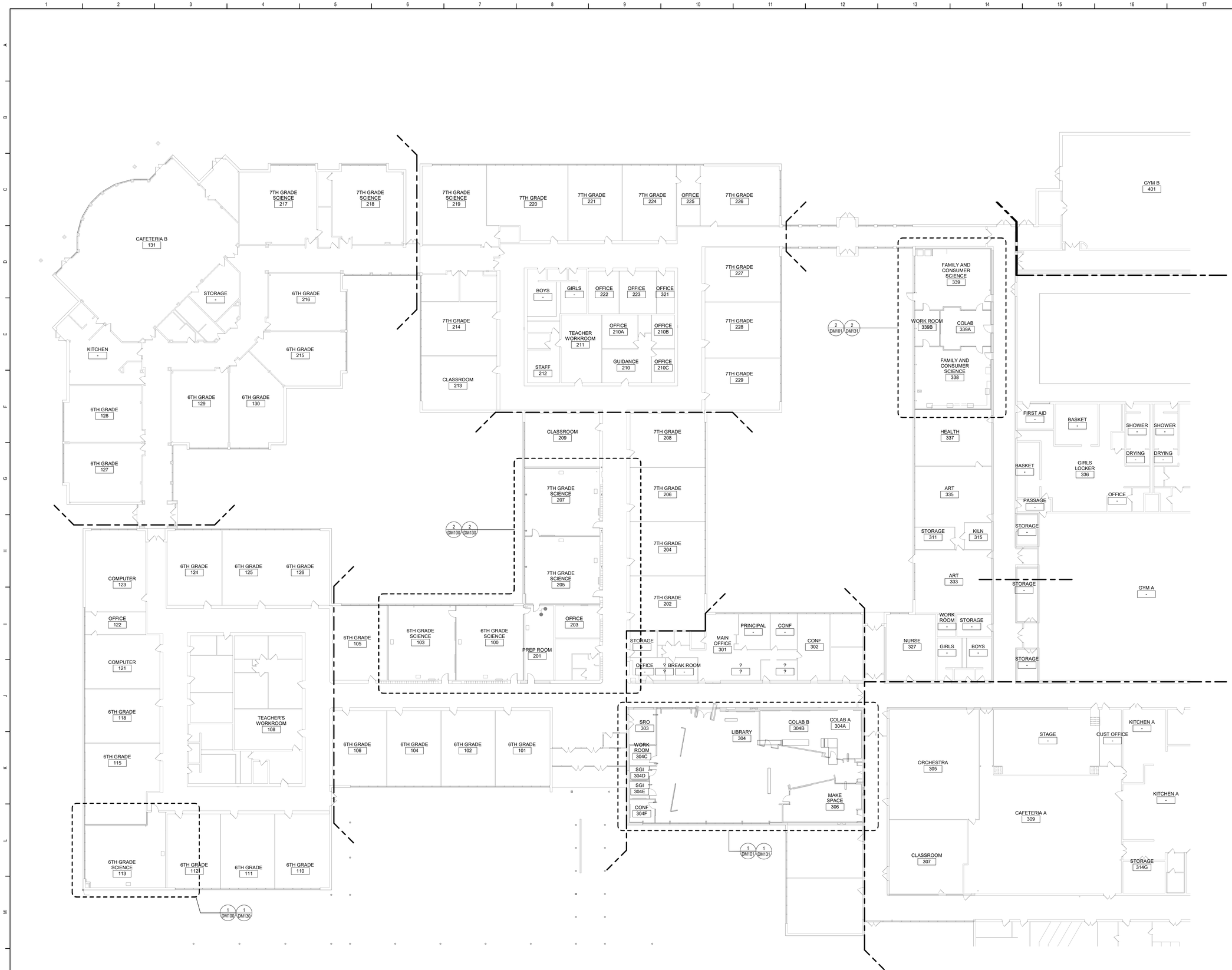
Lakeland Central School District
Shrub Oak, New York

Reconstruction to:
Lakeland Copper Beech Middle School

Partial Plans, Notes and Details

Drawn By:	Date:	Drawing Number:
NDC/kjr	10/13/2023	DS130

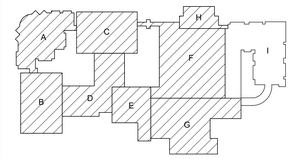
Project No.: 276721-23001



1 First Floor Key Plan
1/16" = 1'-0"

GENERAL NOTES:

1. THE FOLLOWING GENERAL NOTES APPLY TO ALL "DM" SERIES DRAWINGS.
2. REFER TO ALL CONTRACT DOCUMENTS; DRAWINGS AND SPECIFICATIONS, FOR DETAILED STANDARDS AND REQUIREMENTS.
3. REPORT UNSAFE OR UNSATISFACTORY CONDITIONS IN WRITING TO ARCHITECT AND RESOLVE ISSUES BEFORE PROCEEDING.
4. WORK INCLUDES ALL LABOR AND MATERIALS REQUIRED TO PROVIDE COMPLETE WORKING SYSTEMS.
5. COORDINATE PHASING REQUIREMENTS AT JOB MEETINGS AND ON WORK SCHEDULES.
6. 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.
7. 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.
8. 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.
9. 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 OWNERS.
10. IF UNANTICIPATED MECHANICAL, ELECTRICAL, OR STRUCTURAL CONFLICTS ARE ENCOUNTERED, INVESTIGATE AND REPORT BOTH NATURE AND EXTENT OF THE CONFLICT. RE-ROUTE WORK AS REQUIRED.
11. 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.
12. 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.
13. 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.
14. 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.
15. PROVIDE TEMPORARY PIPING, DUCT, HEAT, WEATHERPROOFING, ETC. TO SERVICES TO REMAIN UNTIL PERMANENT INSTALLATIONS CAN BE MADE.
16. ALL EXCESS MATERIALS AND SCRAPS ARE CONTRACTOR'S PROPERTY. PROMPTLY REMOVE FROM SITE UNLESS SPECIFICALLY DIRECTED OTHERWISE.
17. SEAL ALL FLOOR, WALL AND CEILING PENETRATIONS PER FIRE-RESISTANCE RATINGS NOTED ON DG-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.
18. COORDINATE ALL WORK WITH WORK INDICATED ON ABATEMENT DRAWINGS.



Key Plan
N.T.S.

N

S.E.D. Control No. 66-24-01-06-0-012-025

Rev. No.:	Date:	Description:

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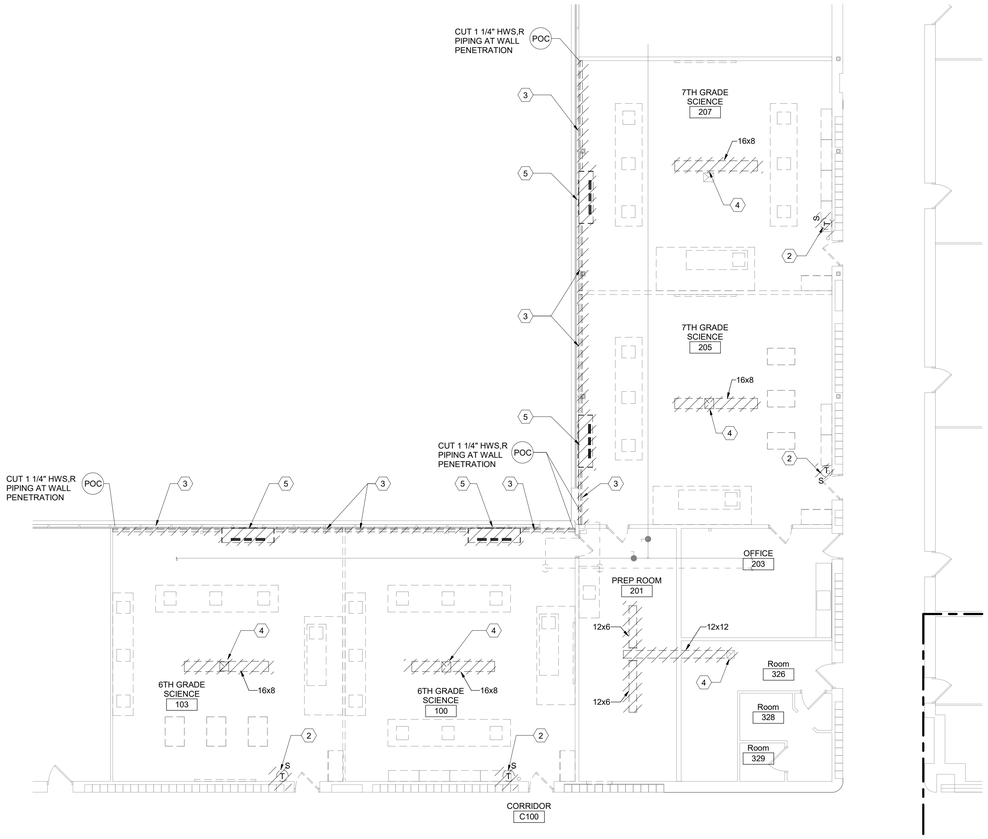
ARCHITECTS & ENGINEERS

Lakeland Central School District
Shrub Oak, New York

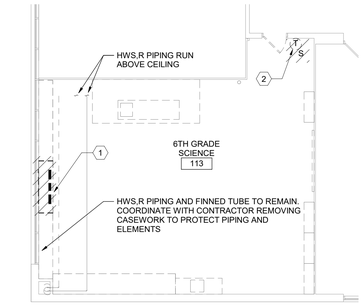
Reconstruction to:
Lakeland Copper Beech Middle School

First Floor Key Plan

Drawn By:	Date:	Drawing Number:
DPM	10/13/2023	DM050
Project No.: 276721-23001		



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



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

GENERAL NOTES:

1. REFER TO DRAWING DM050 FOR GENERAL NOTES.

Keyed Notes:

1. DISCONNECT HWS, R PIPING FROM COIL AND REMOVE UNIT VENTILATOR. REMOVE HWS, R PIPING FROM COIL CONNECTION TO HORIZONTAL BRANCH LINES RUNNING BEHIND UNIT INCLUDING VALVES AND CONTROL VALVE. WALL BOX AND LOUVER REMAINS. REMOVE ASSOCIATED UNIT CONTROLLERS, SENSORS, RELAYS, ETC. COORDINATE WITH ABATEMENT DRAWINGS.
2. REMOVE ROOM TEMPERATURE SENSOR, WIRE NUT CONNECTED WIRING AND ABANDON IN WALL CAVITY. TAG WIRING AS "ABANDONED".
3. REMOVE FINNED TUBE ENCLOSURE, HANGERS AND SUPPORTS, CONNECTED PIPING TO P.O.C., CONTROLS AND VALVES.
4. REMOVE ROOF MOUNTED EXHAUST FAN, CONNECTED DUCTWORK, CEILING GRILLES, HANGERS, SUPPORTS AND ASSOCIATED CONTROLS. ROOF CURB REMAINS. REFER TO NEW WORK PLAN FOR ADDITIONAL INFORMATION.
5. REMOVE UNIT VENTILATOR CONNECTED HWS, R PIPING TO P.O.C. INCLUDING VALVES AND CONTROL VALVE. WALL BOX AND LOUVER REMAINS. REMOVE ASSOCIATED UNIT CONTROLLERS, SENSORS, RELAYS, ETC.

Key Plan
N.T.S.

N

S.E.D. Control No. 66-24-01-06-0-012-025

Rev. No.:	Date:	Description:

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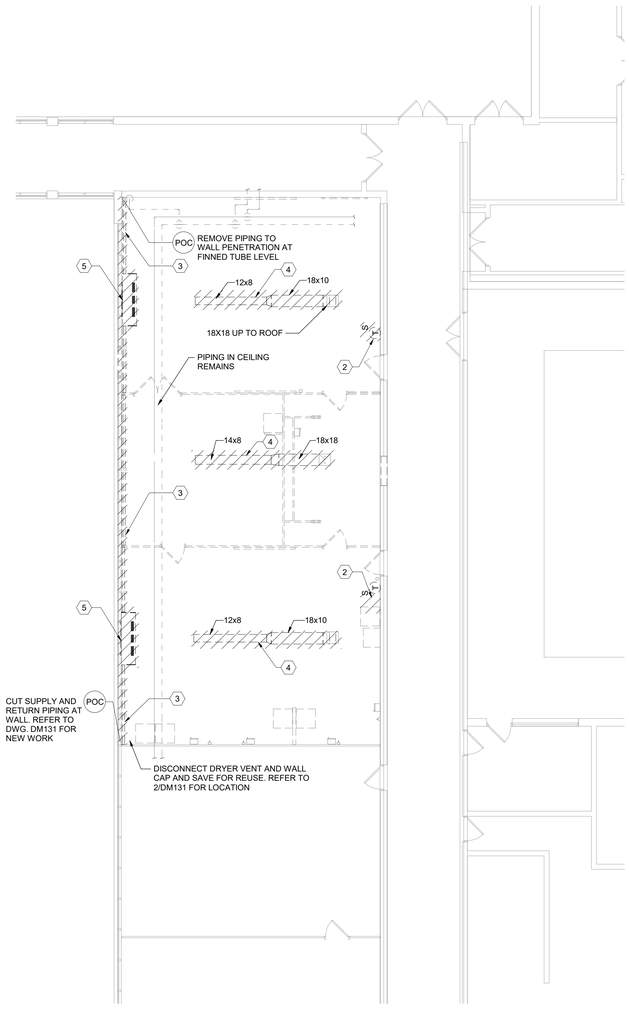
Lakeland Central School District
Shrub Oak, New York

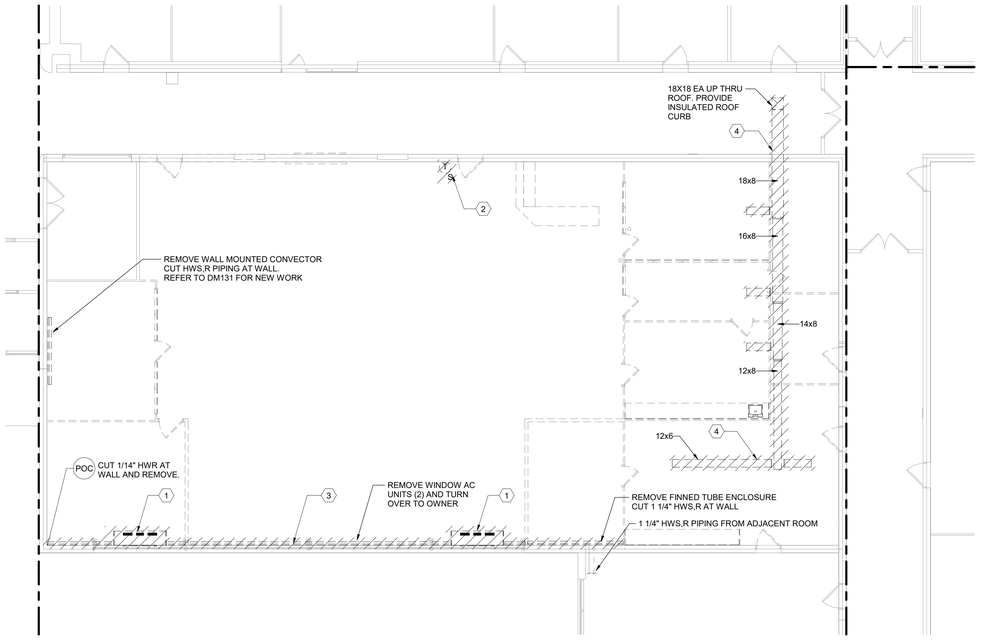
Reconstruction to:
Lakeland Copper Beech Middle School

Partial First Floor Demolition Plan Area B and D

Drawn By:	Date:	Drawing Number:
DPM	10/13/2023	DM100
Project No.: 276721-23001		



2 Partial First Floor Demolition Plan - Area F (Alternate CB-01)
1/8" = 1'-0"



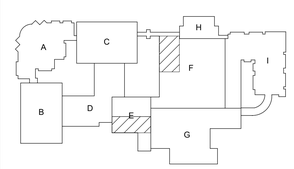
1 Partial First Floor Demolition Plan - Area E
1/8" = 1'-0"

GENERAL NOTES:

1. REFER TO DRAWING DM050 FOR GENERAL NOTES.

Keyed Notes:

1. REMOVE UNIT VENTILATOR, CONNECTED PIPING, WALL BOX, LOUVER AND CONTROLS. COORDINATE WITH ABATEMENT DRAWINGS. REFER TO ARCHITECTURAL DRAWINGS FOR WALL INFILL.
2. REMOVE ROOM TEMPERATURE SENSOR AND CONNECTED WIRING.
3. REMOVE FINNED TUBE ENCLOSURE, ELEMENT, HANGERS AND SUPPORTS, CONNECTED PIPING, CONTROLS AND VALVES.
4. REMOVE ROOF MOUNTED EXHAUST FAN, CONNECTED DUCTWORK, CEILING GRILLES, HANGERS, SUPPORTS AND ASSOCIATED CONTROLS. REFER TO NEW WORK PLAN FOR ADDITIONAL INFORMATION.
5. DISCONNECT HWS, R, PIPING FROM COIL AND REMOVE UNIT VENTILATOR. REMOVE HWS, R PIPING FROM COIL CONNECTION TO HORIZONTAL BRANCH LINES RUNNING BEHIND UNIT. WALL BOX AND LOUVER REMAINS. REMOVE ASSOCIATED UNIT CONTROLLERS, SENSORS, RELAYS, ETC. COORDINATE WITH ABATEMENT DRAWINGS.



Key Plan
N.T.S.

N

S.E.D. Control No. 66-24-01-06-0-012-025

Rev. No.:	Date:	Description:

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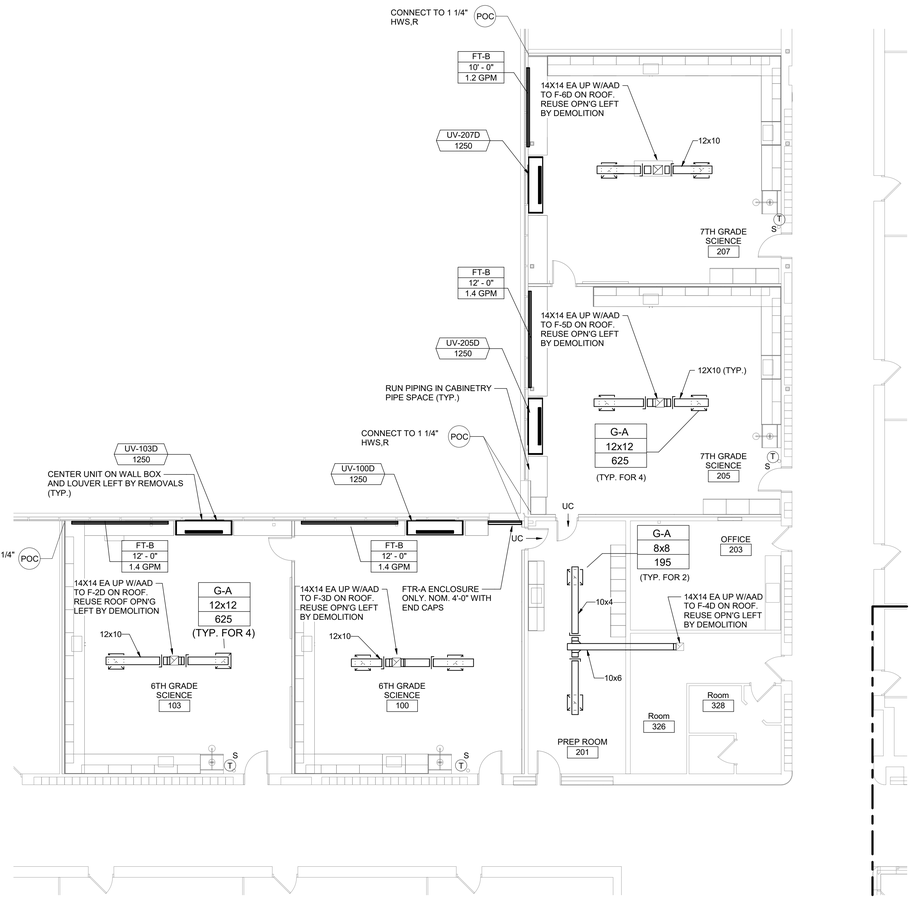
Lakeland Central School District
Shrub Oak, New York

Reconstruction to:
Lakeland Copper Beech Middle School

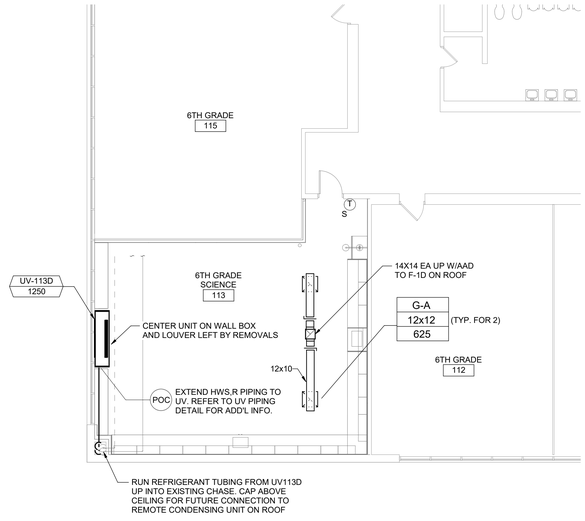
Partial First Floor Demolition Plans
Areas E and F

Drawn By:	Date:	Drawing Number:
DPM	10/13/2023	DM101

Project No.:
276721-23001



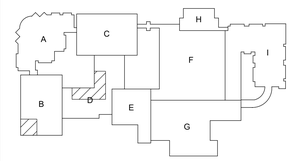
2 Partial First Floor Plan - Area D
1/8" = 1'-0"



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

GENERAL NOTES:

1. REFER TO DRAWING DM050 FOR GENERAL NOTES.



Key Plan
N.T.S.

N

S.E.D. Control No. 66-24-01-06-0-012-025

Rev. No.:	Date:	Description:

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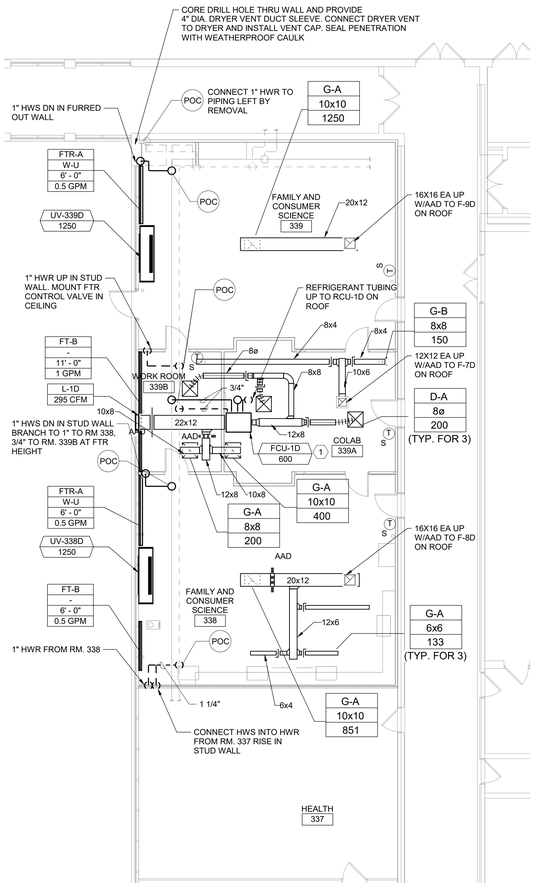
Lakeland Central School District
Shrub Oak, New York

Reconstruction to:
Lakeland Copper Beech Middle School

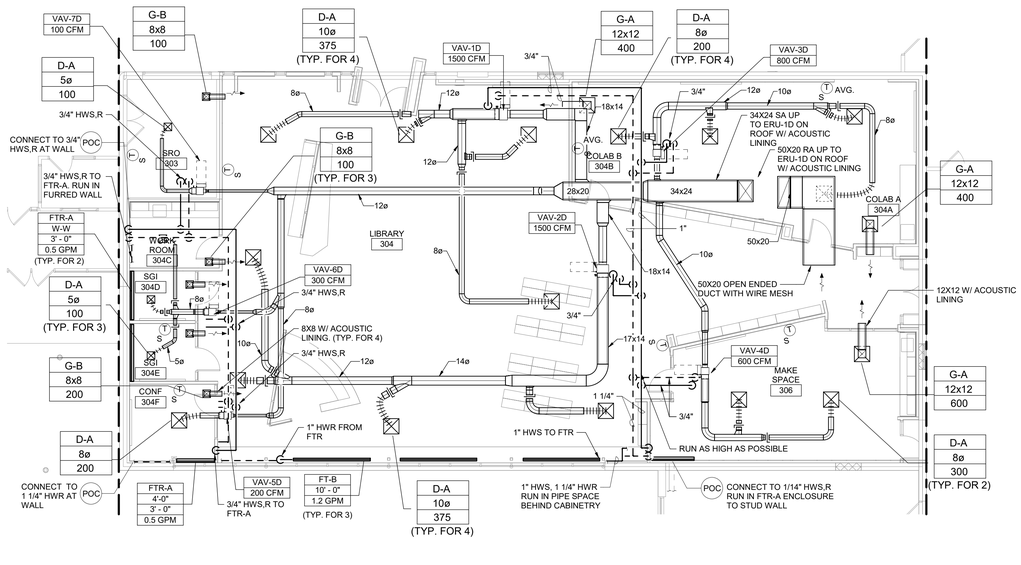
Partial First Floor Plans - Areas B & D

Drawn By:	Date:	Drawing Number:
DPM	10/13/2023	DM130

Project No.:
276721-23001



2 Partial First Floor Plan - Area F (Alternate CB-01)
1/8" = 1'-0"



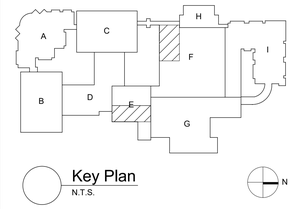
1 Partial First Floor Plan - Area E
1/8" = 1'-0"

GENERAL NOTES:

1. REFER TO DRAWING DM050 FOR GENERAL NOTES.

Keyed Notes:

1. PROVIDE CONNECTION TO UNIT AC CONDENSATE DRAIN AND INSULATED AUXILIARY DRAIN PAN. RUN CONDENSATE LINES TO NEAREST PLUMBING VENT.



S.E.D. Control No. 66-24-01-06-0-012-025

Rev. No.:	Date:	Description:

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Lakeland Central School District
Shrub Oak, New York

Reconstruction to:
Lakeland Copper Beech Middle School

Partial First Floor Plans - Areas E & F

Drawn By:	Date:	Drawing Number:
DPM	10/13/2023	DM131

Project No.: 276721-23001

F-9D
1250 CFM

F-7D
295 CFM

RCU-1D
2 TONS

F-8D
1250 CFM

F-6D
1250 CFM

F-5D
1250 CFM

F-2D
1250 CFM

F-3D
1250 CFM

F-4D
390 CFM

ERU-1D
5000 CFM

F-1D
1250 CFM

1 Roof Plan
1/16" = 1'-0"

GENERAL NOTES:

1. REFER TO DRAWING DM050 FOR GENERAL NOTES.
2. DO NOT DISTURB OR OVERBURDEN EXISTING ROOF AREAS THAT ARE NOT SCHEDULED FOR WORK. THIS INCLUDES HIGH FOOT TRAFFIC, POINTS OF ACCESS AND WORK PREPARATION AREAS. ALL WORK REQUIRED SHALL COMPLY WITH EXISTING ROOF SYSTEM MANUFACTURER'S WARRANTY REQUIREMENTS.

Keyed Notes:

1. MOUNT FAN ON EXISTING CURB. PROVIDE CURB ADAPTER AS REQUIRED TO FIT CURB OPENING

Key Plan
N.T.S.

N

S.E.D. Control No. 66-24-01-06-0-012-025

Rev. No.:	Date:	Description:

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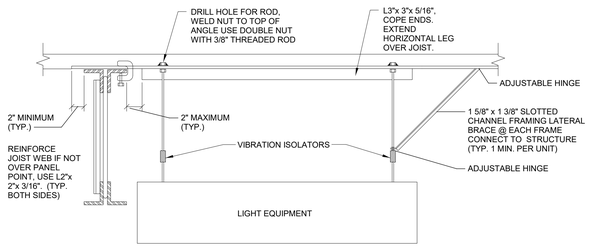
Lakeland Central School District
Shrub Oak, New York

Reconstruction to:
Lakeland Copper Beech Middle School

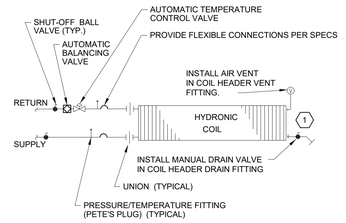
Roof Plan

Drawn By:	Date:	Drawing Number:
TTAE	10/13/2023	DM136

Project No.:
276721-23001

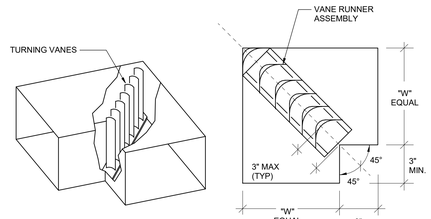


13 Light Equipment Hanging Detail
NTS

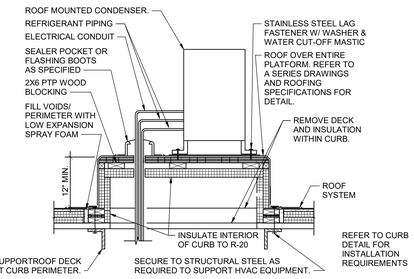


1 FOR COILS WITHOUT HEADERS, PROVIDE AIR VENT AND DRAIN VALVE IN ADJACENT SYSTEM HIGH AND LOW POINTS ON COIL SIDE OF COIL ISOLATION VALVES.

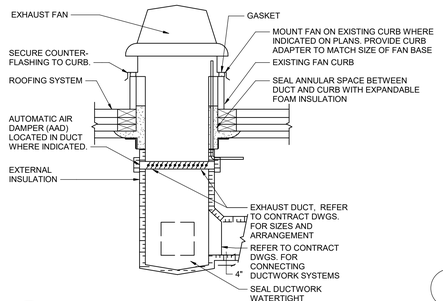
9 Hydronic Coil Piping Detail
NTS



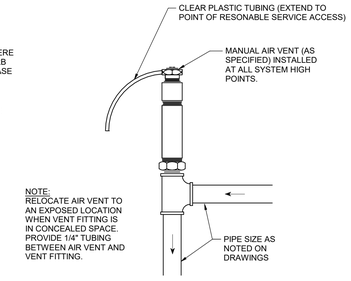
1 Duct Turning Vanes
NTS



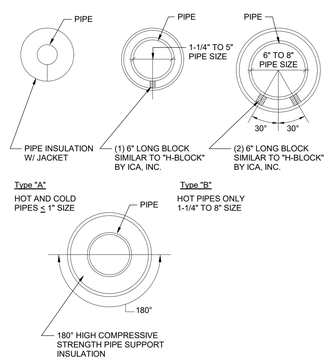
14 Remote Condensing Unit Detail
NTS

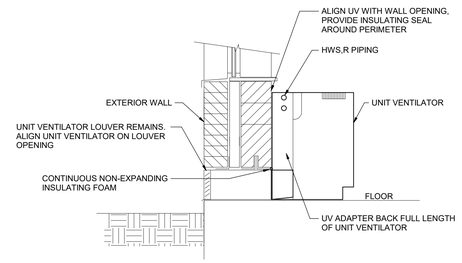


10 Powered Roof Exhaust Fan Detail
NTS

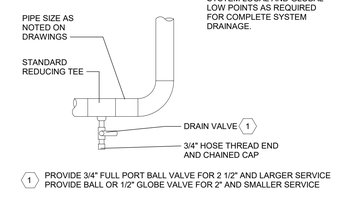


5 Manual Air Vent
NTS



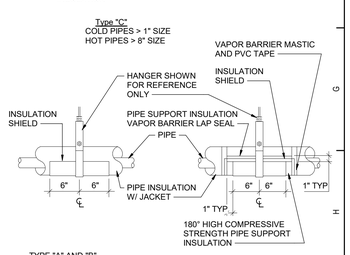


11 Unit Ventilator Installation Detail
NTS



1 PROVIDE 3/4" FULL PORT BALL VALVE FOR 2 1/2" AND LARGER SERVICE
PROVIDE BALL OR 1/2" GLOBE VALVE FOR 2" AND SMALLER SERVICE

6 Low Point Drain Detail
NTS

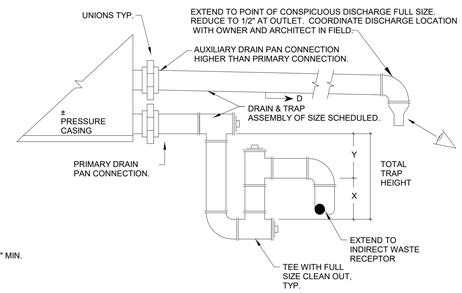


2 Insulation Shield and Blocking Detail
NTS

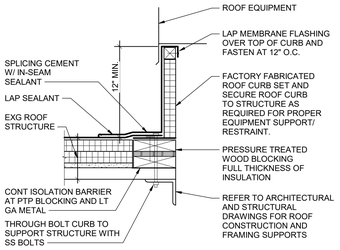
COIL CAPACITY	TRAP SIZE NPS
0-3 TON	3/4"
3-10 TON	1"
10-100 TON	1 1/4"
OVER 100	1 1/2"

NOTE:
1. "X" MUST BE 1-1/2" PLUS CASING STATIC PRESSURE; MINIMUM 2"
2. "Y" MUST BE 1-1/2" MINUS CASING STATIC PRESSURE; MINIMUM 2"

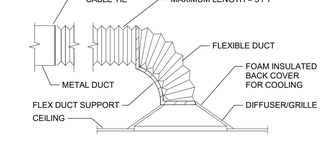
EXAMPLE: CASING At (-1") Wg.
X = 1-1/2" + (-1) = 1/2"; USE 2" MIN.
Y = 1-1/2" - (-1) = 2-1/2""



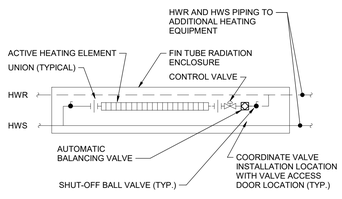
12 Drain Pan / AC Condensate Trap and Auxiliary Drain Detail
NTS



7 Roof Curb Detail
NTS

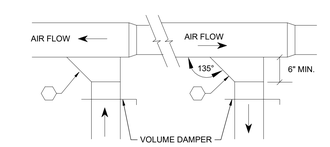


3 Ceiling Diffuser/Grille With Flex Duct
NTS



NOTE:
PROVIDE ONE CONTROL VALVE WHERE THERE ARE MULTIPLE SECTIONS OF FINNED TUBE RADIATION IN THE SAME SPACE.

8 Fin Tube Radiation Piping Schematic
NTS



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

4 Duct Detail
NTS

S.E.D. Control No. 66-24-01-06-0-012-025

Rev. No.:	Date:	Description:

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Lakeland Central School District
Shrub Oak, New York

Reconstruction to:
Lakeland Copper Beech Middle School

Mechanical Details

Drawn By:	Date:	Drawing Number:
DPM	10/13/2023	DM500
Project No.: 276721-23001		

FAN COIL UNIT (FCU) SCHEDULE

MARK	LOCATION	AREA SERVED	MANUFACTURER	MODEL NO.	FAN DATA			HEATING COIL DATA (180 DEG. F. E.W.T., 150 DEG. F. L.W.T.)					COOLING COIL DATA						ELECTRICAL DATA			NOTES
					SA (CFM)	OA (CFM)	ESP (IN. WG.)	EAT (°F)	LAT (°F)	CAP. (MBH)	FLOW (GPM)	WPD (FT. HD.)	TOT. CAP. (MBH)	SEN. CAP. (MBH)	EDB (°F)	EWB (°F)	LDB (°F)	LWB (°F)	MCA	MOP	VOLTAGE/PH.	
FCU-1D	COLAB 339	COLAB 339	DAIKIN	BCHD0061	600	295	0.35	41.0	128.9	57.1	3.7	5.9	24.3	16.1	82.9	69.4	58.5	56.7	5.5	15	120/1	1,2,3,4,5

NOTES:
1. PROVIDE MANUFACTURERS STANDARD DISCONNECT SWITCH AND STARTER.
2. PROVIDE UNITS WITH BOTTOM ACCESS.
3. PROVIDE WITH MERV8 FILTER
4. PROVIDE WITH MANUFACTURERS STANDARD CONTROL TERMINAL STRIP FOR FIELD WIRING AND 24V CONTROL TRANSFORMER.
5. INCLUDED IN ALTERNATE CB-01

UNIT VENTILATOR (UV) SCHEDULE

MARK	LOCATION	MODEL	MANUFACTURER	SUPPLY AIR			HEATING COIL DATA					COOLING DATA						ELECTRICAL DATA			NOTES
				RATED AIRFLOW (CFM)	ACTUAL AIRFLOW (CFM)	OA (CFM)	EAT (°F)	LAT (°F)	CAP. (MBH)	FLOW (GPM)	WPD (FT. HD.)	SENS. CAP. (MBH)	TOT. CAP. (MBH)	EDB (°F)	EWB (°F)	LDB (°F)	LWB (°F)	MCA	MOP	VOLTAGE/PH	
UV-100D	6th GR. SCIENCE	UAVS9H13	DAIKIN	1250	1212	465	44.9	121.0	100.1	6.7	6.5	32.5	43.4	81.8	68.5	56.2	55.3	6.3	15	120/1	1,2,3,4,6
UV-103D	6th GR. SCIENCE	UAVS9H13	DAIKIN	1250	1212	465	44.9	121.0	100.1	6.7	6.5	32.5	43.4	81.8	68.5	56.2	55.3	6.3	15	120/1	1,2,3,4,6
UV-113D	6th GR. SCIENCE	UAVS9H13	DAIKIN	1250	1212	485	43.9	120.6	100.9	6.7	6.5	32.5	43.4	82.1	68.6	57.1	55.9	6.3	15	120/1	1,2,3,4,6
UV-205D	7th GR. SCIENCE	UAVS9H13	DAIKIN	1250	1212	455	45.4	121.3	99.7	6.7	6.5	32.5	43.4	81.6	68.4	55.2	55.2	6.3	15	120/1	1,2,3,4,6
UV-207D	7th GR. SCIENCE	UAVS9H13	DAIKIN	1250	1212	455	45.4	121.3	99.7	6.7	6.5	32.5	43.4	81.6	68.4	55.2	55.2	6.3	15	120/1	1,2,3,4,6
UV-338D	FAM. & CONS. 338	UAVS9H13	DAIKIN	1250	1212	335	51.4	123.2	94.4	6.4	5.9	32.5	43.4	79.6	66.7	55.2	55.2	6.3	15	120/1	1,2,3,4,5,6
UV-339D	FAM. & CONS. 339	UAVS9H13	DAIKIN	1250	1212	335	51.4	123.2	94.4	6.4	5.9	32.5	43.4	79.6	66.7	55.2	55.2	6.3	15	120/1	1,2,3,4,5,6

NOTES:
1. PROVIDE UNIT MANUFACTURER'S DISCONNECT SWITCH.
2. PROVIDE MERV13 FILTER
3. HEATING DATA BASED ON 180 DEG. F. E.W.T., 150 DEG. F. L.W.T.
4. COLOR SELECTION BY ARCHITECT.
5. INCLUDED IN ALTERNATE CB-01
6. COOLING COIL PROVIDED FOR FUTURE CONNECTION TO REMOTE CONDENSING UNIT. REFER TO DRAWINGS FOR FURTHER INFORMATION.

BUILDING/EQUIPMENT VENTILATION CALCULATIONS - COPPER BEECH LIBRARY ERU-1D

EQUIPMENT NUMBER	ZONE ID				MINIMUM VENTILATION RATES								DESIGN	
	ROOM NUMBER	ROOM NAME	OCCUPANCY CLASSIFICATION	Az - AREA (SF)	Pz - ZONE OCCU. #/1000 FT	ZONE OCCU.	Rp (CFM/ Person)	RpP	Ra (CFM/SF)	RaA	Vbz (CFM)	EZ	Voz (CFM)	Vpz (CFM)	Zp
ERU-1D	304	LIBRARY	Libraries	3060	10	31	5	153	0.12	367	520	0.8	650	3000	0.22
	304A,B	COLAB A,B	Classrooms (age 9 plus)	855	35	30	10	299	0.12	103	402	0.8	500	800	0.63
	306	MAKE SPACE	Classrooms (age 9 plus)	535	35	19	10	187	0.12	64	251	0.8	315	600	0.53
	304F	CONF	Conference/meeting	115	50	6	5	29	0.06	7	36	0.8	45	200	0.23
	304D	SGI	Office space	65	5	1	5	5	0.06	4	9	0.8	10	100	0.10
	304E	SGI	Office space	56	5	1	5	5	0.06	3	8	0.8	10	100	0.10
		SRO	Office space	180	5	1	5	5	0.06	11	16	0.8	20	100	0.20
	304C	WORK ROOM	Office space	112	5	1	5	3	0.06	7	10	0.8	10	100	0.10

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 ERU-1D			
Vps	5000	(UNCORRECTED OA) Vou	1252
(CORRECTED OA) Vot	**1210**	D	1.00
OA%	**24**	Ev	1.03
ADDITIONAL OA%	-3		

BUILDING/EQUIPMENT VENTILATION CALCULATIONS - COPPER BEECH

EQUIPMENT NUMBER	ZONE ID				MINIMUM VENTILATION RATES								DESIGN	
	ROOM NUMBER	ROOM NAME	OCCUPANCY CLASSIFICATION	Az - AREA (SF)	Pz - ZONE OCCU. #/1000 FT	ZONE OCCU.	Rp (CFM/ Person)	RpP	Ra (CFM/SF)	RaA	Vbz (CFM)	EZ	Voz (CFM)	Vpz (CFM)	Zp
FCU-1D	339A	COLAB	Classrooms (age 9 plus)	384	35	13	10	134	0.12	46	180	0.8	225	400	0.56
	339B	COLAB	Classrooms (age 9 plus)	152	35	5	10	53	0.12	18	71	0.8	90	200	0.45

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 FCU-1D			
Vps	600	(UNCORRECTED OA) Vou	252
(CORRECTED OA) Vot	**295**	D	1.00
OA%	**49**	Ev	0.86
ADDITIONAL OA%	17		

BUILDING/EQUIPMENT VENTILATION CALCULATIONS COPPER BEECH

EQUIPMENT NUMBER	ZONE ID				MINIMUM VENTILATION RATES								
	ROOM NUMBER	ROOM NAME	OCCUPANCY CLASSIFICATION	Az - AREA (SF)	Pz - ZONE OCCU. #/1000 FT	ZONE OCCU.	Rp (CFM/ Person)	RpP	Ra (CFM/SF)	RaA	Vbz (CFM)	EZ	Voz (CFM)
UV-100D	100	6th Grade Science	Science laboratories	970	25	24	10	243	0.18	175	417	0.9	465
UV-103D	103	6th Grade Science	Science laboratories	970	25	24	10	243	0.18	175	417	0.9	465
UV-113D	113	6th Grade Science	Science laboratories	1016	25	25	10	254	0.18	183	437	0.9	485
UV-205D	205	7th Grade Science	Science laboratories	955	25	24	10	239	0.18	172	411	0.9	455
UV-207D	207	7th Grade Science	Science laboratories	955	25	24	10	239	0.18	172	411	0.9	455
UV-338D	338	Fam. & Consumer Sci	Kitchen (cooking)	910	20	18	7.5	137	0.12	109	246	0.9	275
UV-339D	339	Fam. & Consumer Sci	Kitchen (cooking)	895	20	18	7.5	134	0.12	107	242	0.9	270

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

FAN (F) SCHEDULE

EQUIP NO.	LOCATION	SERVES	MODEL	MANUFACTURER	MIN. AIRFLOW (CFM)	MAX. AIRFLOW (CFM)	SONES	FAN DATA							NOTES
								ESP (IN WG)	DRIVE	MOTOR RPM	HP	VOLTAGE	PHASE	HERTZ	
F-1D	ROOF	6TH GRADE SCIENCE 113	120C17D(VF)	LOREN COOK	465	1250	9.0	.11	DIRECT	1725	1/6	120	1	60	1,2,3
F-2D	ROOF	6TH GRADE SCIENCE 103	120C17D(VF)	LOREN COOK	465	1250	9.0	.11	DIRECT	1725	1/6	120	1	60	1,2,3
F-3D	ROOF	6TH GRADE SCIENCE 100	120C17D(VF)	LOREN COOK	485	1250	9.0	.11	DIRECT	1725	1/6	120	1	60	1,2,3
F-4D	ROOF	PREP ROOM 201	90C10DH	LOREN COOK	390	390	5.2	.10	DIRECT	1050	1/20	120	1	60	1,2,3
F-5D	ROOF	7TH GRADE SCIENCE 205	120C17D(VF)	LOREN COOK	455	1250	9.0	.11	DIRECT	1725	1/6	120	1	60	1,2,3
F-6D	ROOF	7TH GRADE SCIENCE 207	120C17D(VF)	LOREN COOK	455	1250	9.0	.11	DIRECT	1725	1/6	120	1	60	1,2,3
F-7D	ROOF	COLABS	90C10DH	LOREN COOK	295	295	3.5	.10	DIRECT	1550	1/20	120	1	60	1,2,3,4
F-8D	ROOF	FHS 338	120C17D(VF)	LOREN COOK	400	1250	9.0	.11	DIRECT	1725	1/6	120	1	60	1,2,3,5
F-9D	ROOF	FHS 339	120C17D(VF)	LOREN COOK	335	1250	9.0	.11	DIRECT	1725	1/6	120	1	60	1,2,3,5

NOTES:
1. PROVIDE UNIT MANUFACTURER'S STARTER WITH DISCONNECT SWITCH.
2. PROVIDE UNIT MANUFACTURER'S ECM MOTOR.
3. PROVIDE ALUMINUM CURB ADAPTER SIZED AS REQ'D FOR EXISTING CURB
4. PROVIDE WITH SOLID STATE FAN SPEED CONTROLLER
5. INCLUDED IN ALTERNATE CB-01

ENERGY RECOVERY UNIT (ERU) SCHEDULE

MARK	MANUFACTURER	MODEL	LOCATION	OA (CFM)	MIN. OA (CFM)	TSP (IN. WG.)	HP	EXHAUST FAN			ELECTRICAL					WEIGHT (LB.)	NOTES
								EA (CFM)	ESP (IN. WG.)	HP	VOLTAGE	PHASE	HERTZ	MCA	MOP		
ERU-1D	AAON	RN018	ROOF	5000	1210	1.5	5	5000	1.3	5	460	3	60	52	60	3450	1,2

NOTES:
1. PROVIDE UNIT MANUFACTURER'S COMBINATION STARTER WITH DISCONNECT SWITCH.
2. PROVIDE UNIT MANUFACTURER'S ROOF CURB

ENERGY RECOVERY UNIT COIL SCHEDULE

Mark	AIRFLOW (CFM)	SUMMER PERFORMANCE			WINTER PERFORMANCE			COOLING PERFORMANCE				HEATING PERFORMANCE				NOTES
		SUPPLY		EXHAUST			EXHAUST									
		EDB (°F)	LDB (°F)	LDB (°F)	EDB (°F)	LDB (°F)	LDB (°F)	SENS. CAP. (MBH)	TOT. CAP. (MBH)	LDB (°F)	LWB (°F)	GAS INPUT (MBH)	GAS OUTPUT (MBH)	EAT (°F)	LAT (°F)	
ERU-1D	5000	92.0	74.0	87.2	0.0	48.3	21.1	142.4	205.2	52.7	52.1	270.0	218.7	48.3	88.9	1

NOTES:
1. GAS PRESSURE: MIN: 6" WC - MAX.: 10.5" WC.

VAV SCHEDULE

UNIT TAG	SERVES	MODEL	MIN AIRFLOW (CFM)	MAX AIRFLOW (CFM)	APD @CLG AIRFLOW	HOT WATER COIL DATA (180 E.W.T., 150 L.W.T.)						NOTES
						EAT (°F)	LAT (°F)	FLOW (GPM)	WPD (FT. HD.)	CAPACITY (MBH)	NO. ROWS	
VAV-1D	LIBRARY 304	SDR 12	700	1500	0.4	55.0	116.9	3.1	0.54	37.2	2	1,2
VAV-2D	LIBRARY 304	SDR 12	700	1500	0.4	55.0	116.9	3.1	0.54	37.2	2	1,2
VAV-3D	COLAB A,B	SDR 08	400	800	0.6	55.0	106.9	1.5	0.19	16.9	2	1,2
VAV-4D	MAKER SPACE 306	SDR 08	350	600	0.4	55.0	109.7	1.4	0.16	20.8	2	1,2
VAV-5D	OFFICES	SDR 06	200	300	0.2	55.0	122.4	0.9	0.56	11.8	2	1,2
VAV-6D	CONF. 304F	SDR 04	110	200	0.1	55.0	106.4	0.5	0.35	4.6	2	1,2
VAV-7D	SRO OFFICE	SDR 04	80	100	0.1	55	101.1	0.5	0.27	4.6	2	1,2

NOTES:
1. DESIGN BASIS: ENVIRO-TEC
2. PROVIDE WITH MANUFACTURER'S STANDARD 24V CONTROL TRANSFORMER

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-1D	FCU-1D	ELF6375DX	INTAKE	24	12	5	0.90	295	330	0.07	1,2,3,4,5,6

NOTES:
1. DESIGN BASIS: RUSKIN
2. PROVIDE WITH KYNAR FINISH.
3. COLOR TO BE SELECTED BY ARCHITECT.
4. PROVIDE WITH ALUMINUM BIRDSCREEN IN REMOVABLE FRAME.
5. PROVIDE WITH 1 1-2" INTEGRAL FLANGE.
6. INCLUDED IN ALTERNATE CB-01

REMOTE CONDENSING UNIT (RCU) SCHEDULE

EQUIP. TAG	MANUFACTURER	MODEL	NOMINAL COOLING (BTUH)	EER	ELECTRICAL				WEIGHT (LB.)	NOTES
					VOLTAGE	PHASE	MCA	MOP		
RCU-1D	TRANE	4TTR4024N1	24,000	13.1	208	1	14	25	134	1,2

NOTES:
1. SINGLE POINT POWER CONNECTION WITH FUSED DISCONNECT SWITCH REQUIRED. PROVIDE MANUFACTURER'S RECOMMENDED DISCONNECT SWITCH.
2. INCLUDED IN ALTERNATE CB-01

S.E.D. Control No. 66-24-01-06-0-012-025

Rev. No.:	Date:	Description:

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BID SET

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

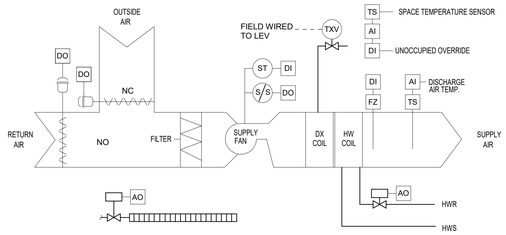
TETRA TECH ARCHITECTS & ENGINEERS

Lakeland Central School District
Shrub Oak, New York

Reconstruction to:
Lakeland Copper Beech Middle School

Schedules

Drawn By: DPM
Date: 10/13/2023
Project No.: 276721-23001
Drawing Number: DM600



FAN COIL UNIT - SEQUENCE OF OPERATIONS:

PROVIDE FIELD MOUNTED CONTROLS

1. THE UNIT SHALL RUN ACCORDING TO A USER DEFINABLE TIME SCHEDULE
   a. SPACE TEMPERATURE SETPOINTS:
      - OCCUPIED HEATING: 70 DEG. F. (ADJ.)
      - OCCUPIED COOLING: 74 DEG. F. (ADJ.)
      - UNOCCUPIED HEATING: 60 DEG. F. (ADJ.)
      - UNOCCUPIED COOLING: 80 DEG. F. (ADJ.)
   b. SPACE TEMPERATURE SENSOR SHALL BE CAPABLE OF THE FOLLOWING:
      - UNOCCUPIED OVERRIDE, 1 HR. (ADJ.)
      - SETPOINT ADJUST: +/-2 DEG. F. (ADJ.)

2. THE UNIT FAN WILL RUN ANYTIME THE UNIT IS COMMANDED TO RUN UNLESS SHUT DOWN ON SAFETIES.

3. PRE-OCCUPIED PERIOD PURGE:
   a. 2 HOURS (ADJ.) PRIOR TO WARM-UP MODE START:
      1.) OPEN OUTSIDE AIR DAMPER
      2.) START ASSOCIATED EXHAUST FAN
   b. RUN SYSTEM IN PURGE MODE FOR A MINIMUM OF 30 MINUTES (ADJ.)
   c. UTILIZE UNOCCUPIED SEQUENCE OF OPERATION FOR TEMPERATURE CONTROL.

3. WARM-UP MODE:
   a. START THE UNIT PER AN OPTIMUM START PROGRAM.
   b. THE OUTSIDE AIR DAMPER SHALL BE CLOSED, THE RETURN AIR DAMPER SHALL BE OPEN.
   c. MODULATE THE CONTROL VALVE AND FINNED TUBE CONTROL VALVE TO MAINTAIN OCCUPIED SETPOINT.

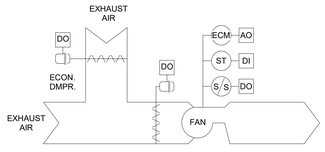
4. OCCUPIED MODE:
   a. DAMPER SHALL OPEN TO POSITION TO ALLOW OUTSIDE AIR QUANTITY INDICATED ON THE UNIT SCHEDULE. OUTSIDE AIR DAMPER SHALL NEVER BE POSITIONED BELOW MINIMUM SETPOINT UNLESS ALARM CONDITION IS PRESENT.
   b. START FAN F-7D
   c. WHEN THE SPACE TEMPERATURE IS AT OR BELOW THE HEATING SETPOINT, MODULATE THE CONTROL VALVE AND FINNED TUBE VALVE AS REQUIRED TO MAINTAIN SETPOINT TEMPERATURE.
   d. WHEN THE SPACE TEMPERATURE IS ABOVE THE COOLING SETPOINT, ENABLE DX COOLING TO MAINTAIN SPACE TEMPERATURE.
   e. ALLOW A 5 DEGREE F (ADJ.) DEADBAND BETWEEN HEATING AND COOLING.
   f. TXV SHALL ONLY OPEN WHEN THERE IS FAN STATUS.

5. UNOCCUPIED MODE:
   a. THE RETURN AIR DAMPER SHALL BE OPEN, THE OUTSIDE AIR DAMPER SHALL BE CLOSED.
   b. F-7D SHALL BE OFF.
   c. THE CONTROLLER SHALL MEASURE THE ZONE TEMPERATURE AND MODULATE THE FINNED TUBE VALVE AS REQUIRED TO MAINTAIN SPACE TEMPERATURE SETPOINT.
   d. IF THE SPACE TEMPERATURE CONTINUES TO DROP, START THE RESPECTIVE FCU AND MODULATE THE CONTROL VALVE TO MAINTAIN SPACE TEMPERATURE.

6. THE CONTROLLER SHALL MEASURE DISCHARGE AIR TEMPERATURE. ALARMS SHALL BE PROVIDED AS FOLLOWS:
   a. HIGH DISCHARGE AIR TEMPERATURE, 120 DEG. F. OR HIGHER. (ADJ.).
   b. LOW DISCHARGE AIR TEMPERATURE, 40 DEG. F. OR LOWER (ADJ.).

7. ALARMS: THE CONTROLLER SHALL MONITOR ALARMS AS FOLLOWS:
   a. FAN FAILURE: COMMANDED ON BUT STATUS IS OFF.
   b. RUN TIME EXCEEDED.
   c. MANUAL RESET FREEZESTAT.
   d. FIRE ALARM SHUTDOWN: DISABLE SUPPLY FAN, CLOSE OUTSIDE AIR DAMPERS AND DISABLE EXHAUST FAN.

5 Fan Coil Unit Control
NTS



EXHAUST FAN - SEQUENCE OF OPERATIONS:

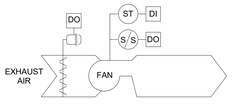
THE UNIT SHALL RUN ACCORDING TO A USER DEFINABLE TIME SCHEDULE.

1. OCCUPIED MODE:
   a. THE EXHAUST DAMPER SHALL OPEN AND THE FAN SHALL RUN CONTINUOUSLY AT MINIMUM SPEED.
   b. WHEN THE ASSOCIATED UNIT VENTILATOR IS IN THE ECONOMIZER MODE FOR TEN MINUTES (ADJ.), OPEN THE ECONOMIZER DAMPER AND INCREASE FAN TO MAXIMUM SPEED.

2. UNOCCUPIED MODE;
   a. THE FAN SHALL BE OFF AND THE AUTOMATIC DAMPER SHALL BE CLOSED.

3. ALARMS:
   a. FAN FAILURE

6 Exhaust Fan Control F-8D
NTS



EXHAUST FAN - SEQUENCE OF OPERATIONS:

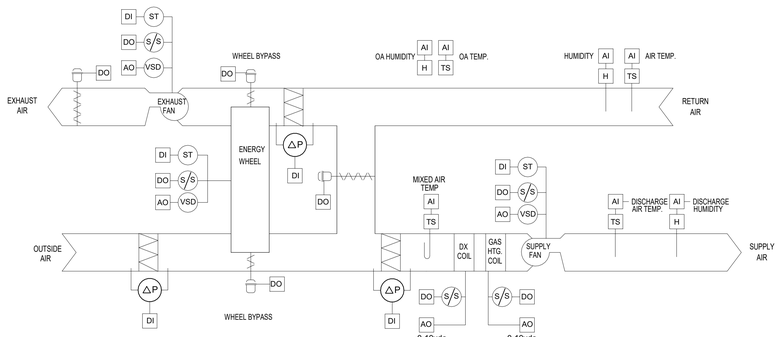
THE UNIT SHALL RUN ACCORDING TO A USER DEFINABLE TIME SCHEDULE.
(FAN SPEED CONTROLLER SHALL BE USED FOR BALANCING PURPOSES)

1. OCCUPIED MODE:
   a. THE EXHAUST DAMPER SHALL OPEN AND THE FAN SHALL RUN CONTINUOUSLY.

2. UNOCCUPIED MODE;
   a. THE FAN SHALL BE OFF AND THE AUTOMATIC DAMPER SHALL BE CLOSED.

3. ALARMS:
   a. FAN FAILURE

7 Exhaust Fan Control - Constant Speed (F-4D,7D)
NTS



ENERGY RECOVERY ROOFTOP UNIT - SEQUENCE OF OPERATIONS:

1. OCCUPIED MODE:
   a. THE SUPPLY FAN, EXHAUST FAN SHALL RUN CONTINUOUSLY.
   b. THE ENERGY WHEEL SHALL RUN CONTINUOUSLY EXCEPT DURING ECONOMIZER OPERATION.
   c. ENERGY WHEEL BYPASS DAMPERS WILL BE CLOSED EXCEPT DURING ECONOMIZER OPERATION.
   d. THE UNIT SHALL SHUT DOWN AND GENERATE AN ALARM UPON RECEIVING AN EMERGENCY SHUTDOWN SIGNAL.
   e. REFER TO VARIABLE VOLUME TERMINAL DEVICE SEQUENCE FOR FURTHER INFORMATION.

2. UNOCCUPIED MODE:
   a. THE SUPPLY AND EXHAUST FANS SHALL BE OFF.
   b. THE RECIRCULATION DAMPER SHALL BE OPEN.
   c. A TIMED LOCAL OVERRIDE CONTROL ON ASSOCIATED VAV DEVICES SHALL ALLOW AN OCCUPANT TO OVERRIDE THE SCHEDULE AND PLACE THE UNIT IN OCCUPIED MODE FOR 1 HOUR (ADJUSTABLE). AT EXPIRATION OF THIS TIME, CONTROL OF THE UNIT SHALL AUTOMATICALLY RETURN TO THE SCHEDULE.
   d. UPON A CALL FOR HEAT, SUPPLY FAN SHALL RUN, RETURN AIR DAMPER SHALL BE OPEN. RESPECTIVE VAV ZONE REHEAT COIL SHALL MAINTAIN UNOCCUPIED SETPOINT

3. SUPPLY AIR TEMPERATURE SETPOINT - OPTIMIZED:

   a. HEATING SHALL BE ENABLED WHENEVER:
      - OUTSIDE AIR TEMPERATURE IS LESS THAN 60 DEG. F. (ADJ.).
      - SUPPLY FAN STATUS IS ON.
      - COOLING IS NOT ACTIVE.
   b. COOLING SHALL BE ENABLED WHENEVER:
      - OUTSIDE AIR TEMPERATURE IS GREATER THAN 65 DEG. F. (ADJ.).
      - ECONOMIZER IS DISABLED.
      - SUPPLY FAN STATUS IS ON.
      - HEATING IS NOT ACTIVE.
   c. UPON A CALL FOR COOLING, MODULATE THE COOLING AS REQUIRED TO MAINTAIN THE COOLING SUPPLY AIR TEMERATURES AS DESCRIBED BELOW.
   d. THE CONTROLLER SHALL MONITOR THE SUPPLY AIR TEMPERATURE AND SHALL MAINTAIN A SUPPLY AIR TEMPERATURE SETPOINT RESET BASED ON ZONE COOLING AND HEATING REQUIREMENTS.
   e. THE SUPPLY AIR TEMPERATURE SETPOINT SHALL BE RESET FOR COOLING BASED ON ZONE COOLING REQUIREMENTS AS FOLLOWS:
      - INITIAL SUPPLY AIR TEMPERATURE SETPOINT SHALL BE 55 DEG. F. (ADJ.).
      - AS COOLING DEMAND INCREASES, THE SETPOINT SHALL INCREMENTALLY RESET DOWN TO A MINIMUM OF 53 DEG. F. (ADJ).
      - AS COOLING DEMAND DECREASES, THE SETPOINT SHALL INCREMENTALLY BE RESET UPWARD TO A MAXIMUM OF 72 DEG. F. (ADJ.
   f. IF MORE ZONES NEED HEATING THAN COOLING, THE SUPPLY AIR TEMPERATURE SETPOINT SHALL BE RESET FOR HEATING AS FOLLOWS:
      - THE INITIAL SUPPLY AIR TEMPERATURE SETPOINT SHALL BE 82 DEG. F. (ADJ.).
      - AS HEATING DEMAND INCREASES, THE SETPOINT SHALL INCREMENTALLY RESET UP TO A MAXIMUM OF 85 DEG. F. (ADJ.).
      - AS HEATING DEMAND DECREASES, THE SETPOINT SHALL INCREMENTALLY RESET DOWN TO A MINIMUM OF 72 DEG. F. (ADJ.).
   g. THE UNIT CONTROLS SHALL MONITOR RELATIVE HUMIDITY AND MODULATE THE HOT GAS REHEAT COIL VALVE AS REQUIRED TO MAINTAIN 60% RH (ADJ.)

4. ECONOMIZER (BYPASS):

   a. THE ECONOMIZER SHALL BE ENABLED WHEN THE OUTSIDE AIR ENTHALPY IS BELOW THE RETURN AIR ENTHALPY FOR 10 MINUTES.
      - AND THE SUPPLY FAN IS ON.
   b. THE BYPASS DAMPERS WILL OPEN, THE RECIRCULATION DAMPER SHALL CLOSE AND THE ENERGY WHEEL SHALL STOP.
   d. THE ECONOMIZER SHALL BE DISABLED WHEN THE OUTSIDE AIR ENTHALPY IS ABOVE THE RETURN AIR ENTHALPY FOR 10 MINUTES.
      - SUPPLY FAN IS OFF.

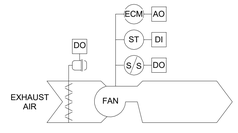
5. MORNING PURGE:

   a. ONE HOUR PRIOR TO SCHEDULED OCCUPANCY, THE UNIT SHALL PERFORM A 30 MINUTE DURATION PURGE SEQUENCE.
      - OPEN BYPASS DAMPERS.
      - START SUPPLY AND EXHAUST FANS.
      - MAINTAIN UNOCCUPIED SETBACK TEMPERATURE CONDITIONS.

6. SAFETIES AND ALARMS:

   a. HIGH SUPPLY AIR TEMPERATURE ALARM, 120 DEG. F. (ADJ.) SUPPLY AIR TEMPERATURE.
   b. FIRE ALARM SIGNAL SHALL DISABLE THE UNIT.
   c. SUPPLY FAN, EXHAUST FAN, ALARM:
      - FAILURE: COMMANDED ON BUT STATUS IS OFF.
      - UNIT IN HAND: COMMANDED OFF BUT STATUS IS ON.
   d. RETURN OR OUTSIDE AIR FILTER PRESSURE DIFFERENTIAL EXCEEDS SETPOINT.
   e. WHEEL FAILURE

3 Energy Recovery Unit Control
NTS



EXHAUST FAN - SEQUENCE OF OPERATIONS:

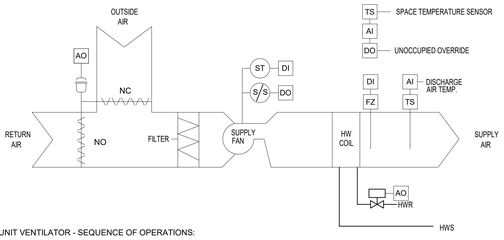
THE UNIT SHALL RUN ACCORDING TO A USER DEFINABLE TIME SCHEDULE.

1. OCCUPIED MODE:
   a. THE EXHAUST DAMPER SHALL OPEN AND THE FAN SHALL RUN CONTINUOUSLY AT MINIMUM SPEED.
   b. WHEN THE ASSOCIATED UNIT VENTILATOR IS IN THE ECONOMIZER MODE FOR TEN MINUTES (ADJ.), THE FAN SPEED SHALL INCREASE TO MAXIMUM SPEED.

2. UNOCCUPIED MODE;
   a. THE FAN SHALL BE OFF AND THE AUTOMATIC DAMPER SHALL BE CLOSED.

3. ALARMS:
   a. FAN FAILURE

4 Exhaust Fan Control - Variable Speed
NTS



UNIT VENTILATOR - SEQUENCE OF OPERATIONS:

PROVIDE FIELD MOUNTED CONTROLS

1. THE UNIT SHALL RUN ACCORDING TO A USER DEFINABLE TIME SCHEDULE
   a. SPACE TEMPERATURE SETPOINTS:
      - OCCUPIED HEATING: 70 DEG. F. (ADJ.)
      - UNOCCUPIED HEATING: 60 DEG. F. (ADJ.)
   b. SPACE TEMPERATURE SENSOR SHALL BE CAPABLE OF THE FOLLOWING:
      - UNOCCUPIED OVERRIDE, 1 HR. (ADJ.)
      - SETPOINT ADJUST: +/-2 DEG. F. (ADJ.)

2. THE UNIT FAN WILL RUN ANYTIME THE UNIT IS COMMANDED TO RUN UNLESS SHUT DOWN ON SAFETIES.

3. PRE-OCCUPIED PERIOD PURGE:
   a. 2 HOURS (ADJ.) PRIOR TO WARM-UP MODE START:
      1.) OPEN OUTSIDE AIR DAMPER TO MINIMUM POSITION.
      2.) START SPACE EXHAUST FAN ON MINIMUM SPEED TO MATCH OA DAMPER POSITION.
   b. RUN SYSTEM IN PURGE MODE FOR A MINIMUM OF 30 MINUTES (ADJ.)
   c. UTILIZE UNOCCUPIED SEQUENCE OF OPERATION FOR TEMPERATURE CONTROL.

3. WARM-UP MODE:
   a. START THE UNIT PER AN OPTIMUM START PROGRAM.
   b. THE OUTSIDE AIR DAMPER SHALL BE CLOSED, THE RETURN AIR DAMPER SHALL BE OPEN.
   c. EXHAUST FAN SHALL BE OFF.
   d. MODULATE THE CONTROL VALVE TO MAINTAIN OCCUPIED SETPOINT.

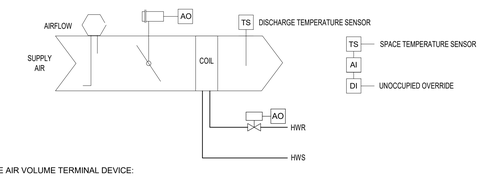
4. OCCUPIED MODE:
   a. DAMPERS SHALL OPEN TO MINIMUM POSITION TO ALLOW OUTSIDE AIR QUANTITY INDICATED ON THE UNIT SCHEDULE. OUTSIDE AIR DAMPER SHALL NEVER BE POSITIONED BELOW MINIMUM SETPOINT UNLESS ALARM CONDITION IS PRESENT.
   b. START SPACE EXHAUST FAN ON MINIMUM SPEED TO MATCH OA DAMPER POSITION.
   c. UPON A CALL FOR HEAT AS SENSED BY THE SPACE TEMPERATURES SENSOR, THE DISCHARGE AIR TEMPERATURE SETPOINT SHALL BE RESET AND THE COIL VALVE SHALL MODULATE AS REQUIRED SUBJECT TO THE FOLLOWING:
      1.) MINIMUM SUPPLY AIR TEMPERATURE: 74 DEG. F. (ADJ.) AT 40 DEG. F. AND LOWER OUTSIDE AIR TEMPERATURE (ADJ.).
      2.) HIGH LIMIT SUPPLY AIR TEMPERATURE: 120 DEG. F. (ADJ).
   d. WHEN THE SPACE TEMPERATURE RISES TO 3 DEG. F (ADJ.) ABOVE THE SPACE HEATING SETPOINT AND THE OUTSIDE AIR TEMPERATURE IS LOWER THAN THE SPACE TEMPERATURE, MODULATE THE OUTSIDE AIR DAMPER BEYOND MINIMUM POSITION AND BEGIN ECONOMIZER COOLING.
      THIS WILL OCCUR SUBJECT TO A DISCHARGE AIR LOW LIMIT OF 55 DEG. F. (ADJ.).

5. UNOCCUPIED MODE:
   a. THE RETURN AIR DAMPER SHALL BE OPEN, THE OUTSIDE AIR DAMPER SHALL BE CLOSED AND THE ASSOCIATED EXHAUST FAN SHALL BE OFF WITH DAMPER CLOSED.
   b. THE CONTROLLER SHALL MEASURE THE SPACE TEMPERATURE AND ENABLE THE THE SUPPLY FAN AND MODULATE THE HEATING VALVE AS REQUIRED TO MAINTAIN SPACE TEMPERATURE SETPOINT.
   c. A TIMED LOCAL OVERRIDE CONTROL SHALL ALLOW AN OCCUPANT TO OVERRIDE THE SCHEDULE AND PLACE THE UNIT IN OCCUPIED MODE FOR 1 HOUR (ADJUSTABLE). AT EXPIRATION OF THIS TIME, CONTROL OF THE UNIT SHALL AUTOMATICALLY RETURN TO THE SCHEDULE.
   d. EXISTING FINNED TUBE RADIATION (WHERE PRESENT) SHALL BE THE FIRST STAGE OF HEATING.

6. THE CONTROLLER SHALL MEASURE DISCHARGE AIR TEMPERATURE. ALARMS SHALL BE PROVIDED AS FOLLOWS:
   a. HIGH DISCHARGE AIR TEMPERATURE, 120 DEG. F. OR HIGHER. (ADJ.).
   b. LOW DISCHARGE AIR TEMPERATURE, 40 DEG. F. OR LOWER (ADJ.).

7. ALARMS: THE CONTROLLER SHALL MONITOR ALARMS AS FOLLOWS:
   a. FAN FAILURE: COMMANDED ON BUT STATUS IS OFF.
   b. RUN TIME EXCEEDED.
   c. MANUAL RESET FREEZESTAT.
   d. FIRE ALARM SHUTDOWN. DISABLE SUPPLY FAN, CLOSE OUTSIDE AND EXHAUST AIR DAMPERS.

1 Unit Ventilator Control
NTS



VARIABLE AIR VOLUME TERMINAL DEVICE:

1. PROVIDE FIELD MOUNTED CONTROLS.

2. RUN CONDITIONS:
   a. THE UNIT SHALL RUN ACCORDING TO A USER DEFINABLE TIME SCHEDULE IN THE FOLLOWING MODES:
      1. OCCUPIED MODE: THE UNIT SHALL MAINTAIN A 75 DEG. F. COOLING SETPOINT AND 70 DEG. F. HEATING SETPOINT (ADJ.)
      2. UNOCCUPIED MODE: THE UNIT SHALL MAINTAIN AN 85 DEG. F. COOLING SETPOINT AND 55 DEG. F. HEATING SETPOINT (ADJ.).
   b. ZONE SETPOINT ADJUST: THE OCCUPANT SHALL BE ABLE TO ADJUST THE ZONE TEMPERATURE HEATING AND COOLING SETPOINTS BY A USER DEFINABLE AMOUNT (ADJ.).
   c. THE UNIT SHALL USE AN OPTIMAL START ALGORITHM FOR MORNING START-UP. THIS ALGORITHM SHALL MINIMIZE THE UNOCCUPIED WARM-UP OR COOL DOWN PERIOD WHILE STILL ACHIEVING COMFORT CONDITIONS BY THE START OF THE SCHEDULED OCCUPIED PERIOD.
   d. OVERRIDE: A TIMED LOCAL OVERRIDE CONTROL SHALL ALLOW AN OCCUPANT TO OVERRIDE THE SCHEDULE AND PLACE THE UNIT INTO AN OCCUPIED MODE FOR AN ADJUSTABLE PERIOD OF TIME. AT THE EXPIRATION OF THIS TIME, CONTROL OF THE UNIT SHALL AUTOMATICALLY RETURN TO THE SCHEDULE.

3. FLOW CONTROL:
   a. WHEN ZONE TEMPERATURE IS GREATER THAN ITS COOLING SETPOINT, THE DAMPER SHALL MODULATE BETWEEN THE MINIMUM OCCUPIED AIRFLOW AND MAXIMUM COOLING AIRFLOW (ADJ.) UNTIL THE ZONE IS SATISFIED.
   b. WHEN THE ZONE TEMPERATURE IS BETWEEN THE COOLING SETPOINT AND THE HEATING SETPOINT, THE ZONE DAMPER SHALL MAINTAIN THE MINIMUM REQUIRED ZONE VENTILATION.
   c. WHEN THE ZONE TEMPERATURE IS LESS THAN ITS HEATING SETPOINT, THE CONTROLLER SHALL ENABLE HEATING TO MAINTAIN THE ZONE TEMPERATURE AT ITS HEATING SETPOINT. ADDITIONALLY, IF WARM AIR IS AVAILABLE FROM THE RTU/AHU, THE ZONE DAMPER SHALL MODULATE BETWEEN THE MINIMUM OCCUPIED AIRFLOW AND THE MAXIMUM HEATING AIRFLOW UNTIL THE ZONE IS SATISFIED.

4. HOT WATER REHEAT VALVE
   a. THE VAV HEATING COIL VALVE SHALL MODULATE AS REQUIRED TO MAINTAIN SPACE HEATING SETPOINT.

5. SAFETIES
   a. UPON A SIGNAL FROM THE FIRE ALARM CONTROL PANEL, THE VAV DAMPER SHALL CLOSE.
   b. LOW LIMIT DISCHARGE AIR LOW LIMIT SET AT 38 DEG. F. (ADJ.)

2 VAV Bypass Box with Hot Water Coil Control
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
ECM	ECM MOTOR

S.E.D. Control No. 66-24-01-06-0-012-025

Rev. No.:	Date:	Description:

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

BID SET

TETRA TECH
ARCHITECTS & ENGINEERS

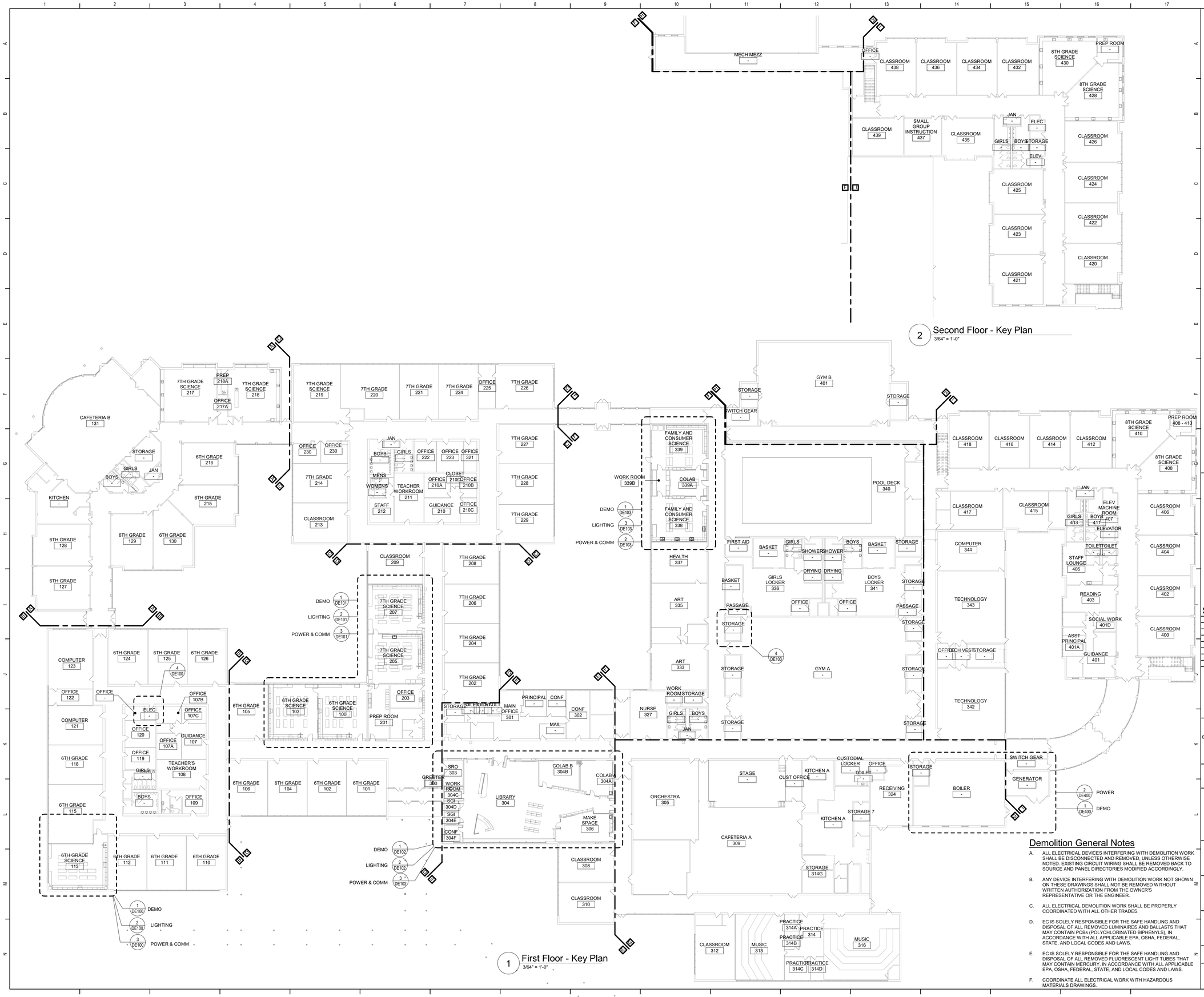
Lakeland Central School District
Shrub Oak, New York

Reconstruction to:
Lakeland Copper Beech Middle School

Control Sequences and Diagrams

Drawn By:	Date:	Drawing Number:
DPM	10/13/2023	DM700

Project No.: 276721-23001



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. NEW CIRCUIT BREAKERS IN EXISTING PANELBOARDS SHALL BE UL LISTED FOR USE IN THE PANELBOARD AND SHALL MATCH THE AIC RATING OF THE PANELBOARD.

J. COORDINATE ALL ELECTRICAL WORK WITH OTHER TRADES.

K. 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.

L. 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.

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.

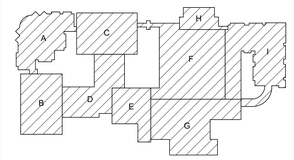
B. ANY DEVICE INTERFERING WITH DEMOLITION WORK NOT SHOWN ON THESE DRAWINGS SHALL NOT BE REMOVED WITHOUT WRITTEN AUTHORIZATION FROM THE OWNER'S REPRESENTATIVE OR THE ENGINEER.

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. COORDINATE ALL ELECTRICAL WORK WITH HAZARDOUS MATERIALS DRAWINGS.



Key Plan
N.T.S.

S.E.D. Control No. 66-24-01-06-0-012-025

Rev. No.:	Date:	Description:

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

BID SET

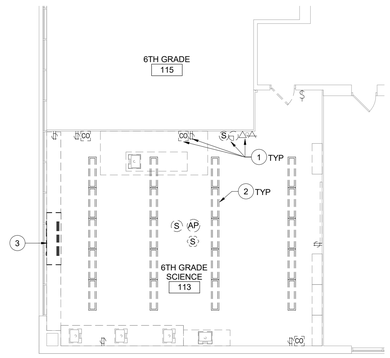
TETRA TECH
ARCHITECTS & ENGINEERS

Lakeland Central School District
Shrub Oak, New York

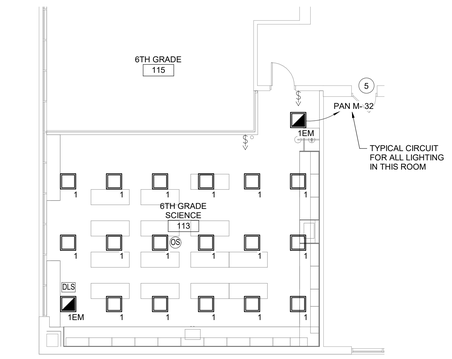
Reconstruction to:
Lakeland Copper Beech Middle School

First and Second Floor Key Plans

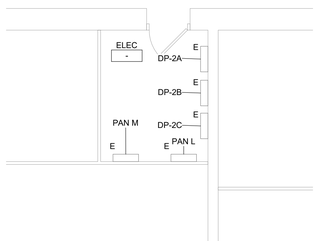
Drawn By:	Date:	Drawing Number:
SAS	10/13/2023	DE050
Project No.: 276721-23001		



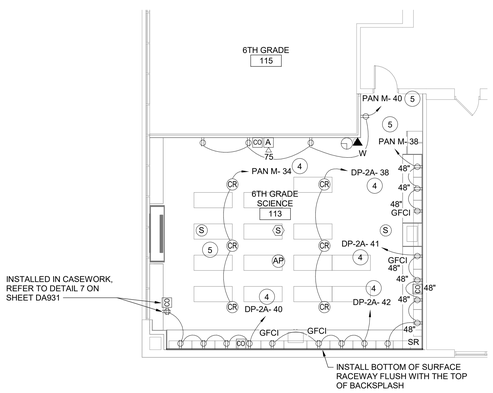
1 Partial First Floor Demolition Plan - Area B
1/8" = 1'-0"



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



4 Partial First Floor Power Plan - Area B
1/4" = 1'-0"



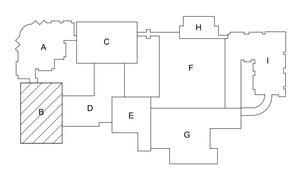
3 Partial First Floor Power & Communications Plan - Area B
1/8" = 1'-0"

Keyed Notes:

1. REMOVE ELECTRICAL DEVICES, WIRING AND CONDUIT BACK TO SOURCE. WHERE DEVICES OUTSIDE OF RENOVATION AREA ARE FED BY CIRCUITS SLATED FOR REMOVAL, MAINTAIN POWER TO IMPACTED DEVICES.
2. REMOVE LUMINAIRES AND HAND OVER TO OWNER TO STORE IN ATTACK STOCK. REMOVE LIGHTING CONTROLS AND CIRCUITRY BACK TO SOURCE.
3. REMOVE POWER CIRCUITRY TO HVAC EQUIPMENT BACK TO SOURCE. LABEL ANY UNUSED CIRCUIT BREAKERS AS "SPARE".
4. PROVIDE 20A-1P BREAKER IN AVAILABLE SPACE IN PANEL DP-2A IN ELEC ROOM. CONNECT USING (2)#12, (1)#12 G. IN 1/2" CONDUIT. AMEND PANEL DIRECTORY AS NECESSARY.
5. PROVIDE 20A-1P BREAKER IN AVAILABLE SPACE IN PANEL M IN ELEC ROOM. CONNECT USING (2)#12, (1)#12 G. IN 1/2" CONDUIT. AMEND PANEL DIRECTORY AS NECESSARY.

General Notes:

A. REFER TO DRAWING DE050 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.
E. GFCI FEED THROUGH RECEPTACLES ARE NOT ALLOWED. EITHER INDIVIDUAL GFCI RECEPTACLES OR GFCI CIRCUIT BREAKERS MAY BE USED FOR GFCI PROTECTION.
E. 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.



Key Plan
N.T.S.

N

S.E.D. Control No. 66-24-01-06-0-012-025

Rev. No.:	Date:	Description:

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BID SET

TETRA TECH
ARCHITECTS & ENGINEERS

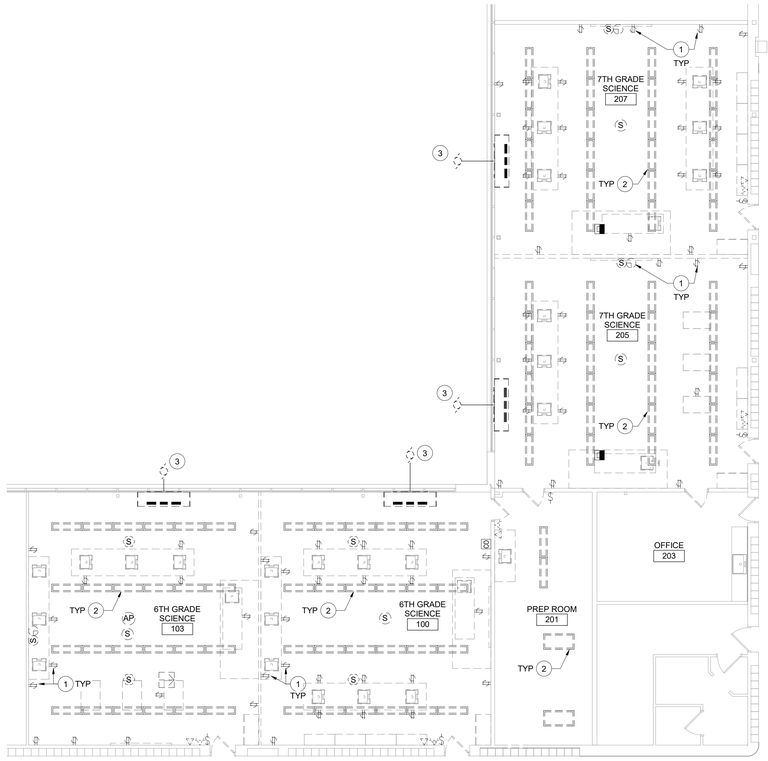
Lakeland Central School District
Shrub Oak, New York

Reconstruction to:
Lakeland Copper Beech Middle School

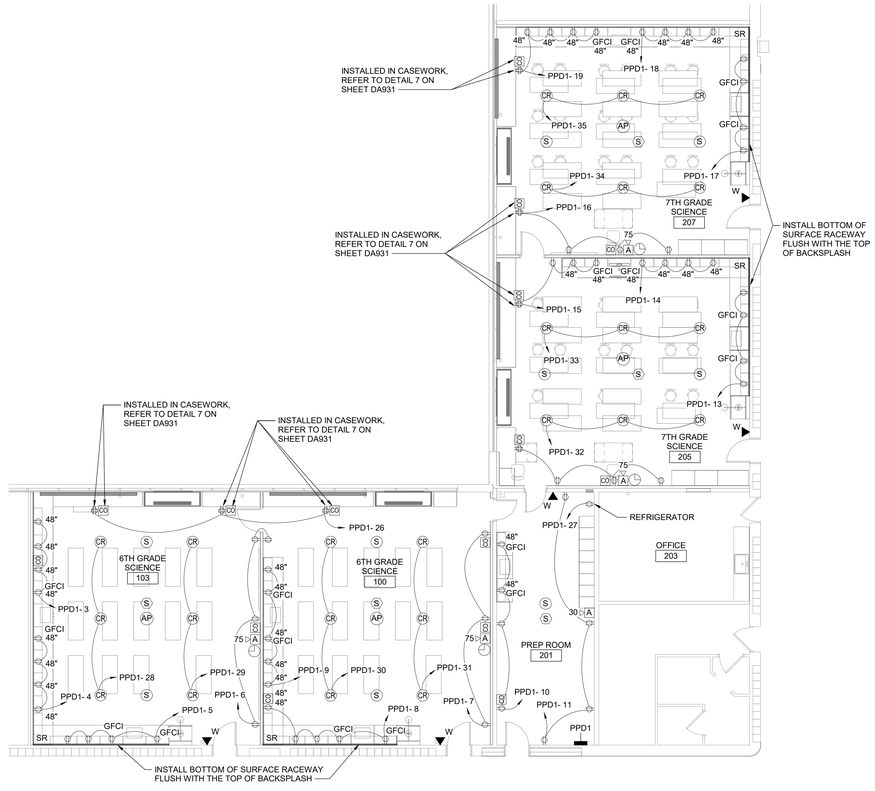
Partial Floor Plans - Area B

Drawn By:	Date:	Drawing Number:
SAS/CR	10/13/2023	DE100

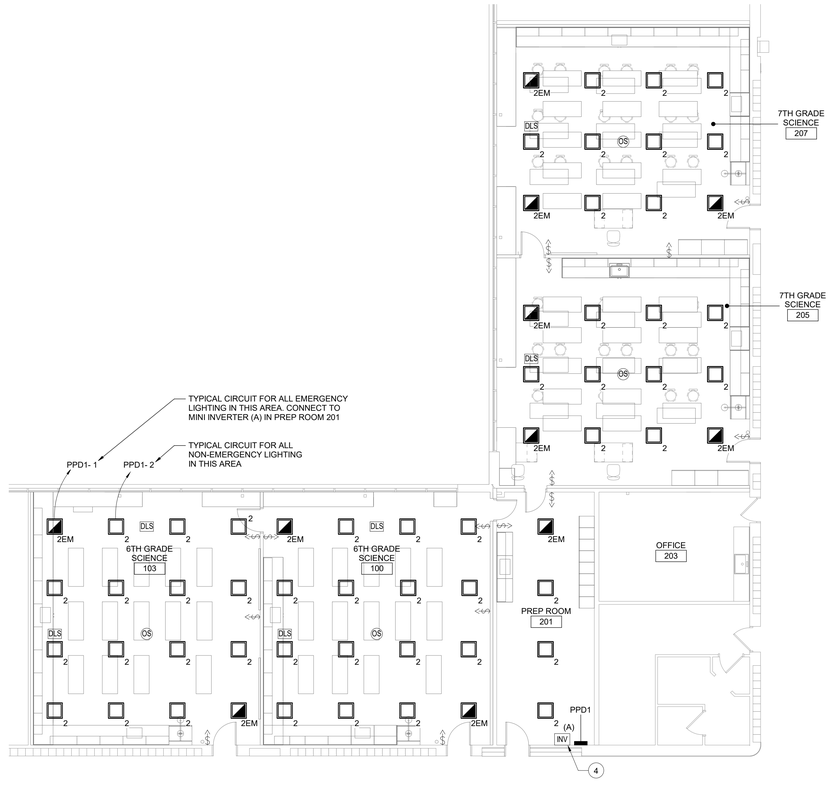
Project No.:
276721-23001



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



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



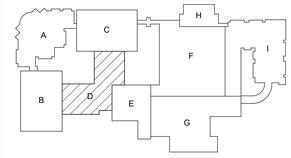
2 First Floor Lighting Plan - Area D
1/8" = 1'-0"

Keyed Notes:

1. REMOVE ELECTRICAL DEVICES, WIRING AND CONDUIT BACK TO SOURCE. WHERE DEVICES OUTSIDE OF RENOVATION AREA ARE FED BY CIRCUITS SLATED FOR REMOVAL, MAINTAIN POWER TO IMPACTED DEVICES.
2. REMOVE LUMINAIRES AND HAND OVER TO OWNER TO STORE IN ATTACK STOCK. REMOVE LIGHTING CONTROLS AND CIRCUITRY BACK TO SOURCE.
3. REMOVE POWER CIRCUITRY TO HVAC EQUIPMENT BACK TO SOURCE. LABEL ANY UNUSED CIRCUIT BREAKERS AS "SPARE".
4. PROVIDE WALL MOUNTED MINIATURE INVERTER BASED ON MODEL VESTA MAX MODEL VST-MAX-375W-UNV-4CK, MOUNT AT 72" AFF. REFER TO WIRING DIAGRAM ON DRAWING DE501.

General Notes:

A. REFER TO DRAWING DE050 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.
E. GFCI FEED THROUGH RECEPTACLES ARE NOT ALLOWED. EITHER INDIVIDUAL GFCI RECEPTACLES OR GFCI CIRCUIT BREAKERS MAY BE USED FOR GFCI PROTECTION.
F. 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).
F. 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.



Key Plan
N.T.S.

S.E.D. Control No. 66-24-01-06-0-012-025

Rev. No.:	Date:	Description:

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ARCHITECTS & ENGINEERS

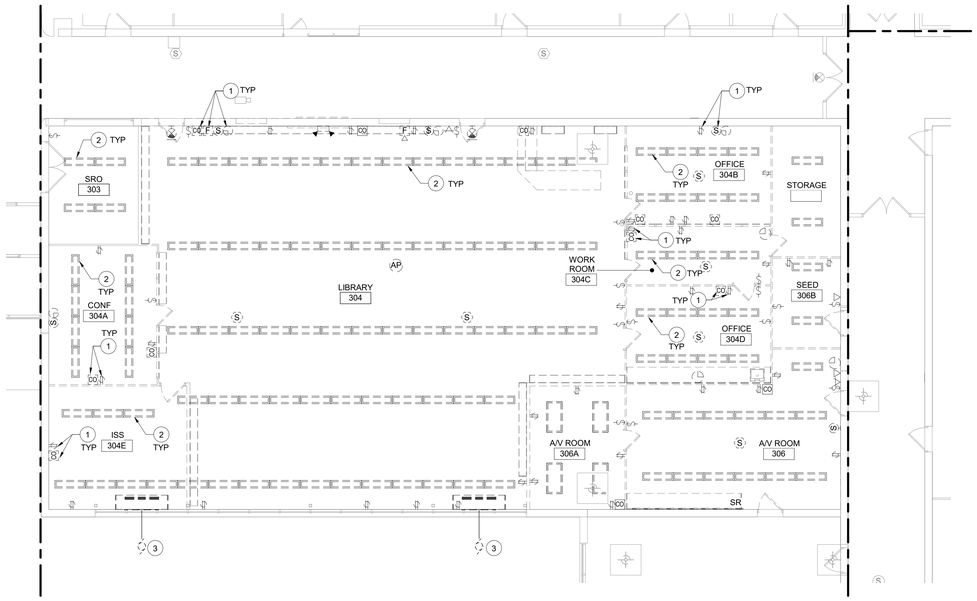
Lakeland Central School District
Shrub Oak, New York

Reconstruction to:
Lakeland Copper Beech Middle School

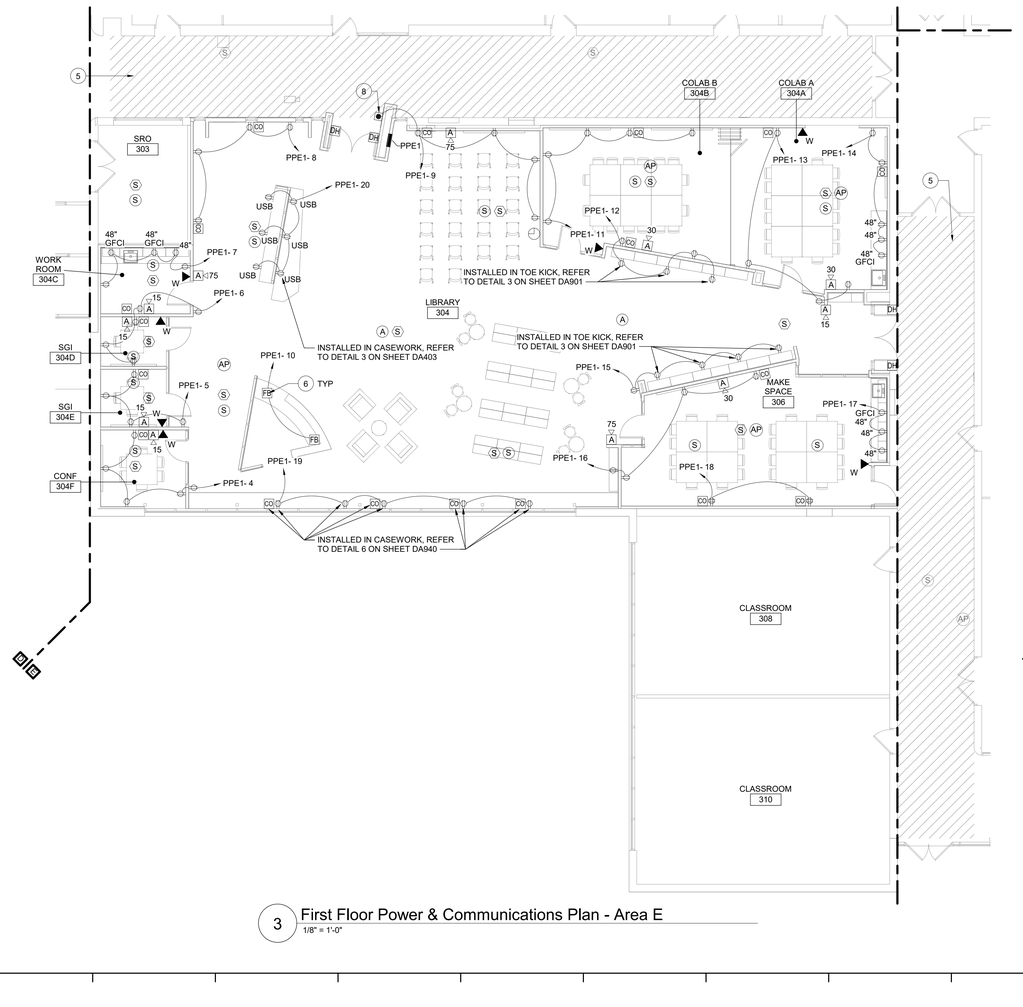
Partial Floor Plans - Area D

Drawn By:	Date:	Drawing Number:
SAS/CR	10/13/2023	DE101

Project No.:
276721-23001



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



3 First Floor Power & Communications Plan - Area E
1/8" = 1'-0"

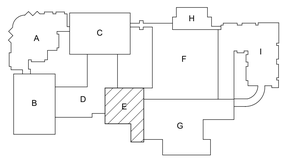
2 First Floor Lighting Plan - Area E
1/8" = 1'-0"

Keyed Notes:

1. REMOVE ELECTRICAL DEVICES, WIRING AND CONDUIT BACK TO SOURCE. WHERE DEVICES OUTSIDE OF RENOVATION AREA ARE FED BY CIRCUITS SLATED FOR REMOVAL, MAINTAIN POWER TO IMPACTED DEVICES.
2. REMOVE LUMINAIRES AND HAND OVER TO OWNER TO STORE IN ATTACK STOCK. REMOVE LIGHTING CONTROLS AND CIRCUITRY BACK TO SOURCE.
3. REMOVE POWER CIRCUITRY TO HVAC EQUIPMENT BACK TO SOURCE. LABEL ANY UNUSED CIRCUIT BREAKERS AS "SPARE".
4. PROVIDE WALL MOUNTED MINIATURE INVERTER BASED ON MODEL VESTA MAX MODEL VST-MAX-600W-UNV-4CK, MOUNT AT 72" AFF. REFER TO WIRING DIAGRAM ON DRAWING DE501.
5. IN HATCHED AREA, REMOVE AND STORE, OR SUPPORT EXISTING CEILING MOUNTED DEVICES FOR CEILING REPLACEMENT WORK. RE-INSTALL DEVICES IN SAME LOCATION IN NEW CEILING.
6. PROVIDE FLOOR BOX WITH (2) DUPLEX RECEPTACLES AND (1) DATA RECEPTACLE WITH (2) JACKS FED WITH (2) CAT6 CABLES.
7. CONNECT LUMINAIRE(S) TO EXISTING LIGHTING CIRCUIT AND CONTROLS SERVING THE CORRIDOR.
8. PROVIDE ELECTRICAL CONNECTION FOR BACKLIT SIGNAGE. COORDINATE FINAL LOCATION WITH OTHER CONTRACTS.

General Notes:

A. REFER TO DRAWING DE050 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.
E. GFCI FEED THROUGH RECEPTACLES ARE NOT ALLOWED. EITHER INDIVIDUAL GFCI RECEPTACLES OR GFCI CIRCUIT BREAKERS MAY BE USED FOR GFCI PROTECTION.
E. LIGHTING CONTROL SEQUENCES:
SGI/COLAB/CONFERENCE/WORKROOM/MAKER SPACES:
ALL LUMINAIRES OPERATE WITH A (4) BUTTON LOW VOLTAGE LIGHTING CONTROL, BUTTONS CAPABLE OF ON/OFF, 50% AND 100% AND INCLUDE A SLIDING ADJUSTMENT. IF LUMINAIRES ARE LEFT ON AND ROOM 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.
LIBRARY:
ALL LUMINAIRES OPERATE WITH A LOW VOLTAGE TOUCH SCREEN CAPABLE OF MULTIPLE PRESET SCENES AND COLOR TUNING. IF LUMINAIRES ARE LEFT ON AND ROOM 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 SETPOINT (MEASURED IN SPACE 30 FC MIN. AT WORK PLANE) ILLUMINATION.
F. 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).



Key Plan
N.T.S.

S.E.D. Control No. 66-24-01-06-0-012-025

Rev. No.:	Date:	Description:

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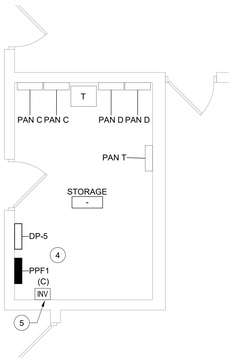
Lakeland Central School District
Shrub Oak, New York

Reconstruction to:
Lakeland Copper Beech Middle School

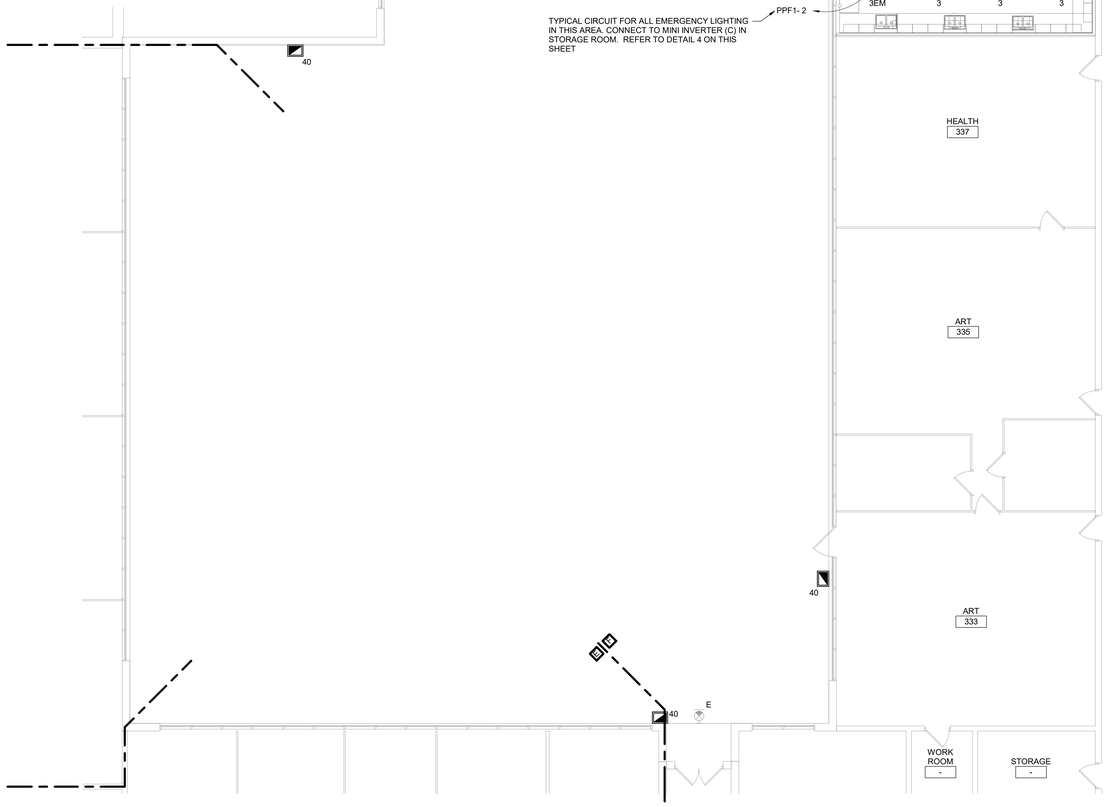
Partial Floor Plans - Area E

Drawn By:	Date:	Drawing Number:
SAS/CR	10/13/2023	DE102
Project No.: 276721-23001		

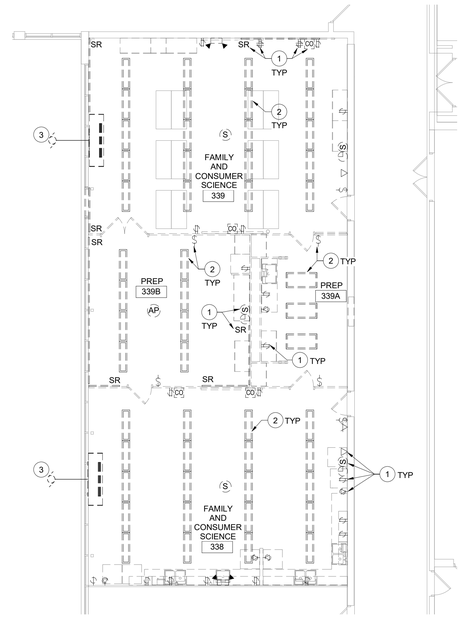
ALL WORK BY ALTERNATE CB-01



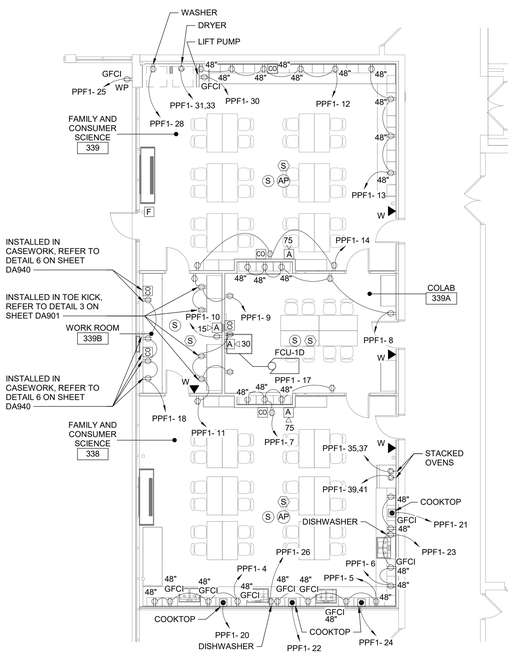
4 Partial First Floor Power Plan - Area F
1/4" = 1'-0"



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



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



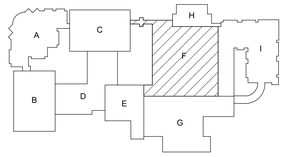
2 First Floor Power & Communications Plan - Area F
1/8" = 1'-0"

Keyed Notes:

1. REMOVE ELECTRICAL DEVICES, WIRING AND CONDUIT BACK TO SOURCE. WHERE DEVICES OUTSIDE OF RENOVATION AREA ARE FED BY CIRCUITS SLATED FOR REMOVAL, MAINTAIN POWER TO IMPACTED DEVICES.
2. REMOVE LUMINAIRES AND HAND OVER TO OWNER TO STORE IN ATTACK STOCK. REMOVE LIGHTING CONTROLS AND CIRCUITRY BACK TO SOURCE.
3. REMOVE POWER CIRCUITRY TO HVAC EQUIPMENT BACK TO SOURCE. LABEL ANY UNUSED CIRCUIT BREAKERS AS "SPARE".
4. PROVIDE 100A-3P CIRCUIT BREAKER IN AVAILABLE SPACE IN PANEL SDP IN SWITCHGEAR ROOM. CONNECT USING (3)#2, (1)#8 G. IN 1-1/4" CONDUIT.
5. PROVIDE WALL MOUNTED MINIATURE INVERTER BASED ON MODEL VESTA MAX MODEL VST-MAX-375W-UNV-4CK, MOUNT AT 72" AFF. REFER TO WIRING DIAGRAM ON DRAWING DE501.
6. PROVIDE PHOTOCELL AND CONNECT INTO EXISTING EXTERIOR LUMINAIRE CONTROLS

General Notes:

A. REFER TO DRAWING DE050 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.
E. GFCI FEED THROUGH RECEPTACLES ARE NOT ALLOWED. EITHER INDIVIDUAL GFCI RECEPTACLES OR GFCI CIRCUIT BREAKERS MAY BE USED FOR GFCI PROTECTION.
F. 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).
G. LIGHTING CONTROL SEQUENCES:
   COLAB SPACES:
   ALL LUMINAIRES OPERATE WITH A (4) BUTTON LOW VOLTAGE LIGHTING CONTROL. BUTTONS CAPABLE OF ON/OFF, 50% AND 100% AND INCLUDE A SLIDING ADJUSTMENT. IF LUMINAIRES ARE LEFT ON AND ROOM 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 SETPOINT (MEASURED IN SPACE 30-40 FC MIN. AT WORK PLANE)ILLUMINATION.
   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.



Key Plan
N.T.S.

N

S.E.D. Control No. 66-24-01-06-0-012-025

Rev. No.:	Date:	Description:

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ARCHITECTS & ENGINEERS

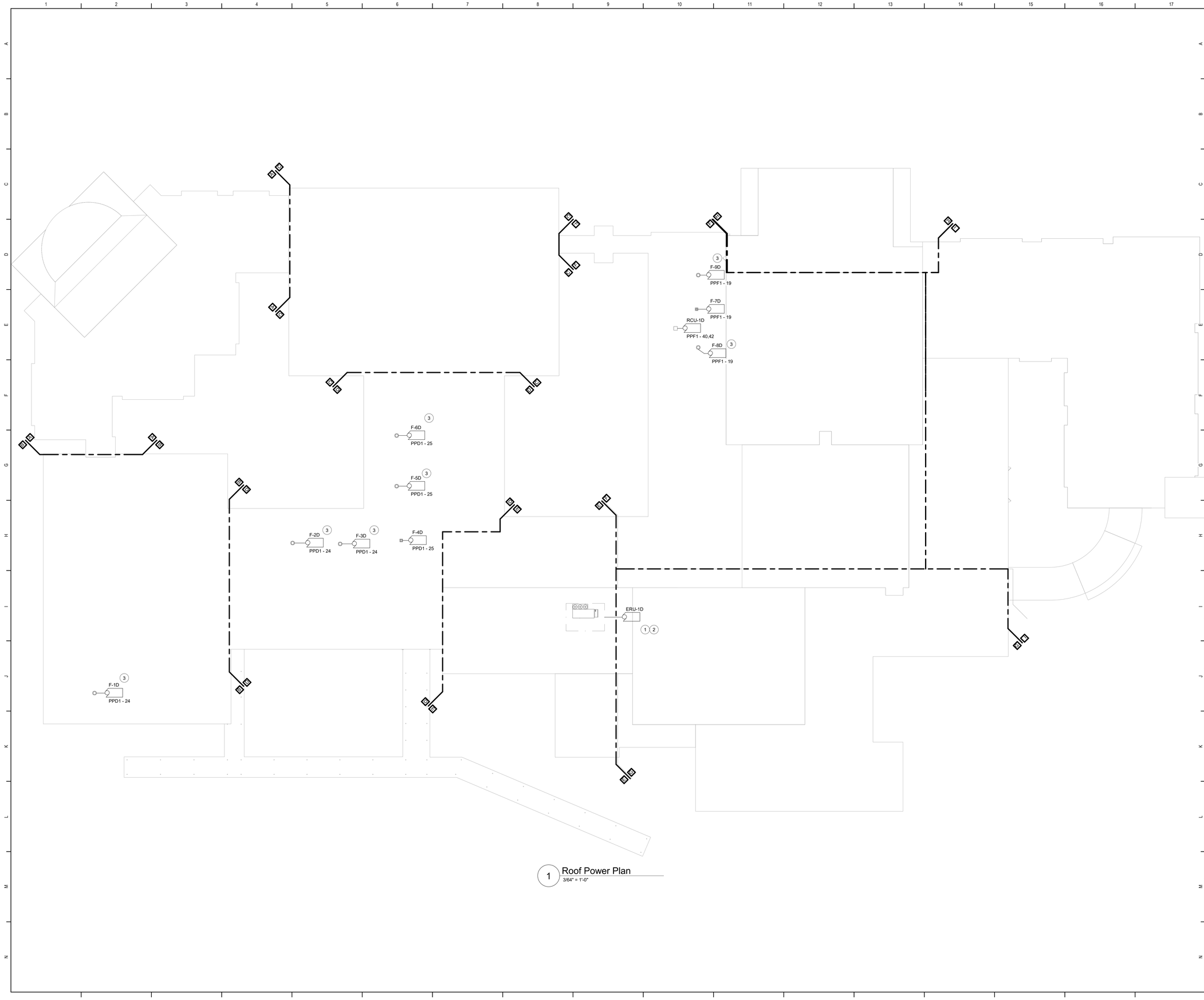
Lakeland Central School District
Shrub Oak, New York

Reconstruction to:
Lakeland Copper Beech Middle School

Partial Floor Plans - Area F

Drawn By:	Date:	Drawing Number:
SAS/CR	10/13/2023	DE103

Project No.:
276721-23001



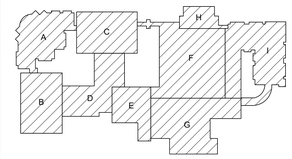
1 Roof Power Plan
3/64" = 1'-0"

Keyed Notes:

1. PROVIDE 60A-3P CIRCUIT BREAKER IN AVAILABLE SPACE IN PANEL C IN STORAGE ROOM, REFER TO DRAWING DE103. CONNECT USING (3)#6, (1)#10 G. IN 3/4" CONDUIT.
2. PROVIDE SUPPLY AND RETURN AIR DUCT DETECTOR AND FAN SHUTDOWN RELAY AND CONNECT TO EXISTING FIRE ALARM SYSTEM. WIRE RELAY TO MOTOR CONTROLLER.
3. PROVIDE FAN SHUT DOWN RELAY AND CONNECT TO EXISTING FIRE ALARM SYSTEM. WIRE RELAY INTO FAN CONTROL CIRCUIT.

General Notes:

A. REFER TO DRAWING DE050 FOR GENERAL NOTES.



Key Plan
N.T.S.

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S.E.D. Control No. 66-24-01-06-0-012-025

Rev. No.:	Date:	Description:

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TETRA TECH
ARCHITECTS & ENGINEERS

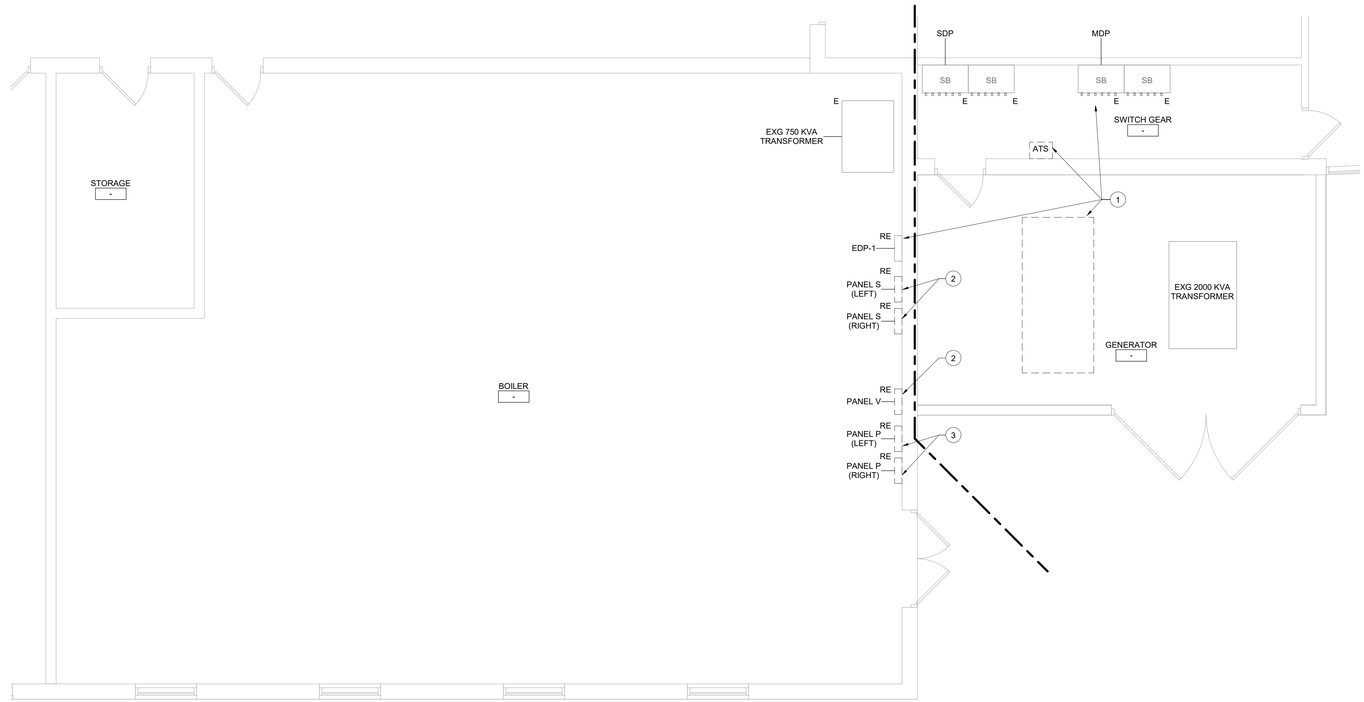
Lakeland Central School District
Shrub Oak, New York

Reconstruction to:
Lakeland Copper Beech Middle School

Roof Power Plan

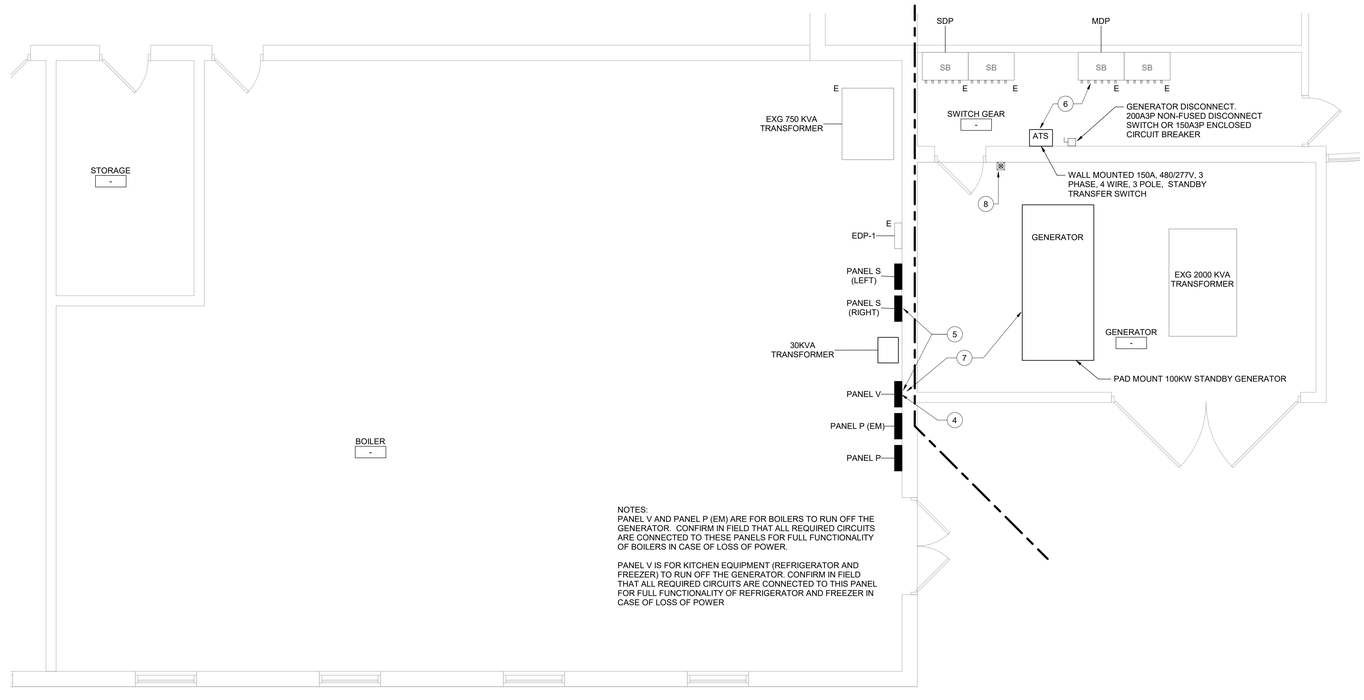
Drawn By:	Date:	Drawing Number:
SAS	10/13/2023	DE160

Project No.:
276721-23001



1 Enlarged Demolition Plan - Switchgear, Generator and Boiler Room

1/4" = 1'-0"



NOTES:
PANEL V AND PANEL P (EM) ARE FOR BOILERS TO RUN OFF THE GENERATOR. CONFIRM IN FIELD THAT ALL REQUIRED CIRCUITS ARE CONNECTED TO THESE PANELS FOR FULL FUNCTIONALITY OF BOILERS IN CASE OF LOSS OF POWER.

PANEL V IS FOR KITCHEN EQUIPMENT (REFRIGERATOR AND FREEZER) TO RUN OFF THE GENERATOR. CONFIRM IN FIELD THAT ALL REQUIRED CIRCUITS ARE CONNECTED TO THIS PANEL FOR FULL FUNCTIONALITY OF REFRIGERATOR AND FREEZER IN CASE OF LOSS OF POWER

2 Enlarged Plan - Switchgear, Generator and Boiler Room

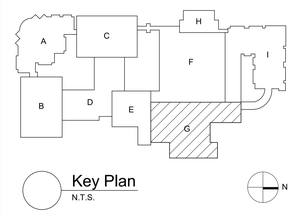
1/4" = 1'-0"

Keyed Notes:

1. REMOVE EXISTING GENERATOR AND AUTOMATIC TRANSFER SWITCH AND TURN OVER TO OWNER. REMOVE ALL WIRING AND CONDUIT BETWEEN GENERATOR, AUTOMATIC TRANSFER SWITCH, MDP AND EDP-1.
2. REMOVE PANELBOARD AND FEEDER BACK TO SOURCE. PROTECT, COIL AND TAG BRANCH CIRCUITRY FOR RE-USE.
3. REMOVE PANELBOARD, PROTECT, COIL AND TAG FEEDER AND BRANCH CIRCUITRY FOR RE-USE.
4. DISCONNECT POWER CIRCUITRY FOR KITCHEN REFRIGERATOR AND FREEZER FROM PANEL IN KITCHEN. MODIFY/EXTEND CIRCUITRY TO PANEL V IN BOILER ROOM AND CONNECT TO BREAKERS OF THE SAME SIZE IN PANEL V. LABEL UNUSED CIRCUIT BREAKERS IN KITCHEN PANEL AS "SPARE".
5. DISCONNECT POWER CIRCUITRY FOR LIGHTING AND POWER IN NURSE 327 FROM PANEL C AND PANEL D IN STORAGE ROOM (REFER TO DE103 FOR LOCATION OF PANELS) . MODIFY/EXTEND CIRCUITRY TO PANEL V AND PANEL S IN BOILER ROOM AND CONNECT TO BREAKERS OF THE SAME SIZE IN PANEL V AND PANEL S. LABEL UNUSED CIRCUIT BREAKERS IN PANEL C AND PANEL D AS "SPARE".
6. REMOVE EXISTING 125A-3P BREAKER IN MDP. PROVIDE 150A-3P BREAKER IN SAME SPACE IN MDP. CONNECT TO AUTOMATIC TRANSFER SWITCH. REFER TO DRAWING DE700 FOR ONE-LINE DIAGRAM FOR CONDUCTOR SIZING.
7. PROVIDE REQUIRED CONNECTIONS TO GENERATOR BLOCK HEATER, BATTERY CHARGER, ETC. FROM PANEL V IN BOILER ROOM TO GENERATOR.
8. PROVIDE GENERATOR REMOTE MANUAL STOP SWITCH WITH LABELS PER NFPA 110. COORDINATE FINAL LOCATIONS WITH OWNER PRIOR TO INSTALLATION.

General Notes:

A. REFER TO DRAWING DE050 FOR GENERAL NOTES.
B. REFER TO DRAWING DE601 FOR PANELBOARD SCHEDULES
C. REFER TO DRAWING DE700 FOR ONE-LINE DIAGRAM.



Key Plan
N.T.S.

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ARCHITECTS & ENGINEERS

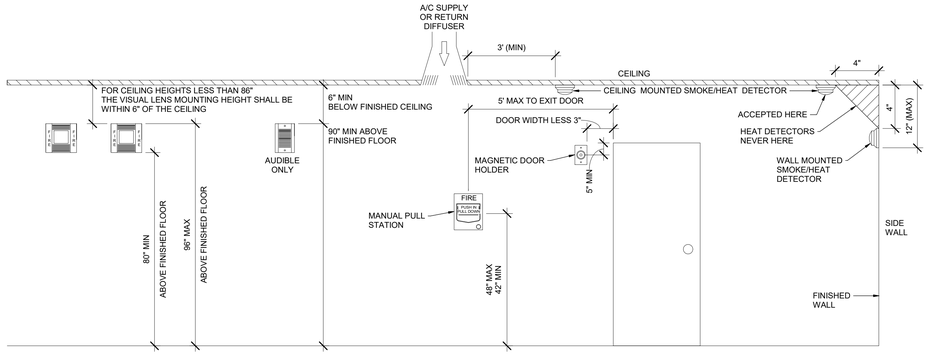
Lakeland Central School District
Shrub Oak, New York

Reconstruction to:
Lakeland Copper Beech Middle School

Enlarged Plans

Drawn By:	Date:	Drawing Number:
SAS	10/13/2023	DE400

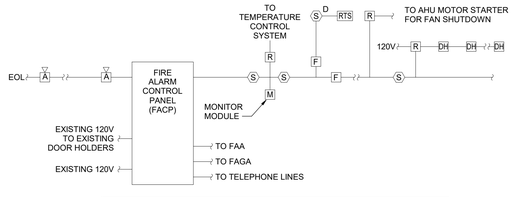
Project No.:
276721-23001



5 Typical Mounting Heights
NTS

DETECTOR LOCATION REQUIREMENTS (NFPA 72)		
d = DEPTH OF WALL SECTION ABOVE DOOR	DOOR FRAME MOUNTED (SMOKE DETECTOR LISTED FOR FRAME MOUNTING OR AS PART OF CLOSER ASSEMBLY)	CEILING MOUNTED (SMOKE DETECTOR)
0-24" ON BOTH SIDES OF DOORWAY	A d = 24" DETECTOR OR DETECTOR CLOSER MOUNTED ON EITHER SIDE	B d MAX. 5 FT, d MIN. BUT NOT LESS THAN 12" ONE DETECTOR MOUNTED ON EITHER SIDE
over 24" ON ONE SIDE ONLY	C d1 ≤ 24" d2 > 24" DETECTOR OR DETECTOR CLOSER MOUNTED ON HIGHER SIDE	D d1 ≤ 24" d2 > 24" 5 FT.MAX MIN. = d2 DETECTOR MOUNTED ON HIGHER SIDE
over 24" ON BOTH SIDES	E d > 24" DETECTOR OR DETECTOR CLOSER MOUNTED ON EITHER SIDE	F d 5 FT.MAX MIN. = d 5 FT.MAX MIN. = d TWO DETECTORS REQUIRED
over 60"	MIGHT REQUIRE ADDITIONAL DETECTORS	

6 Smoke Detector Mounting Requirements (per NFPA 72)
NTS



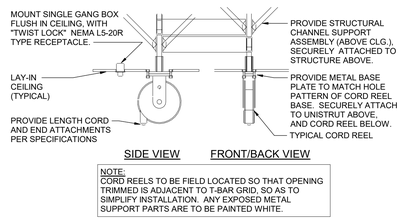
NOTE:
1. FIRE ALARM RISER IS INTENDED TO BE SCHEMATIC ONLY. ALL DEVICES INDICATED ON PLANS AND DETAILS ARE TO BE INSTALLED AND CONNECTED FOR PROPER OPERATION OF SYSTEM. WIRING SHALL BE AS REQUIRED BY FIRE ALARM MANUFACTURER.
2. FIELD VERIFY QUANTITY AND LOCATIONS OF HVAC EQUIPMENT REQUIRING DUCT DETECTORS AND/OR FAN SHUT DOWN RELAYS.

FIRE ALARM SEQUENCE OF OPERATION

A. UPON ACTIVATION OF MANUAL PULL STATIONS, HEAT DETECTORS, SMOKE DETECTORS, DUCT DETECTORS. THE FIRE ALARM PANEL WILL GO INTO ALARM AND SHOULD SOUND THE A/V DEVICES, SHUT DOWN THE FANS, RELEASE THE MAGNETIC DOOR HOLDERS, CONTACT THE LOCAL FIRE DEPARTMENT AND INDICATE WHICH ALARM ZONE THE ALARM IS IN VIA THE REMOTE ANNUNCIATORS.

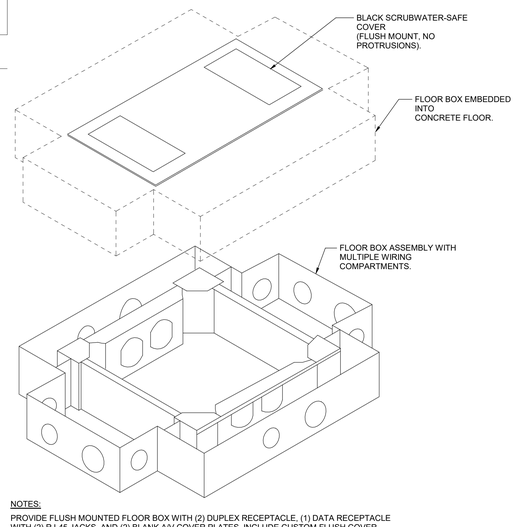
B. UPON ACTIVATION OF A TROUBLE CONDITION THE FIRE ALARM PANEL SHALL GO INTO "TROUBLE" MODE INDICATING WHICH ZONE IS IN TROUBLE BY A LIGHT IN THE REMOTE ANNUNCIATOR AND AT THE FIRE ALARM PANEL.

7 Fire Alarm System Wiring Diagram
NTS



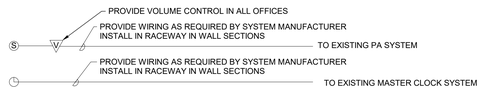
NOTE:
CORD REELS TO BE FIELD LOCATED SO THAT OPENING TRIMMED IS ADJACENT TO T-BAR GRID, SO AS TO SIMPLIFY INSTALLATION. ANY EXPOSED METAL SUPPORT PARTS ARE TO BE PAINTED WHITE.

8 Cord Reel Mounting Detail
NTS

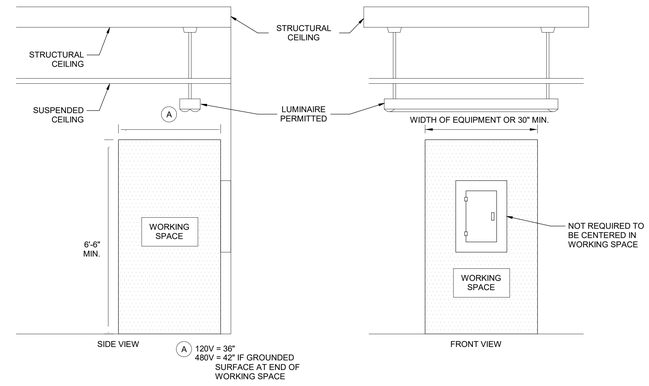


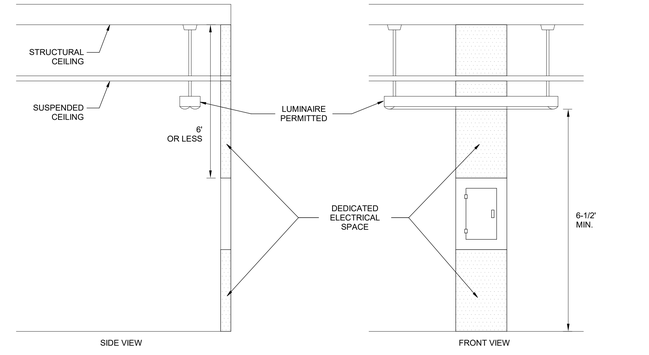
NOTES:
PROVIDE FLUSH MOUNTED FLOOR BOX WITH (2) DUPLEX RECEPTACLE, (1) DATA RECEPTACLE WITH (2) RJ-45 JACKS, AND (2) BLANK A/V COVER PLATES. INCLUDE CUSTOM FLUSH COVER FLOOR BOX IS TO BE INSTALLED EMBEDDED INTO CONCRETE WITH COVER FLUSH WITH FINISHED FLOOR.

4 Floor Box
NTS

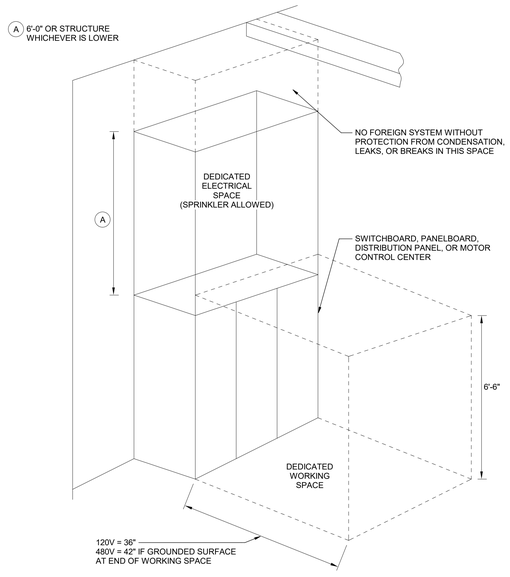


1 Clock and Speaker System Wiring Diagram
NTS





2 Working Space/ Dedicated Space at Panelboard
NTS



3 Working Space/Dedicated Space at Panelboard
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S.E.D. Control No. 66-24-01-06-0-012-025

Rev. No.:	Date:	Description:

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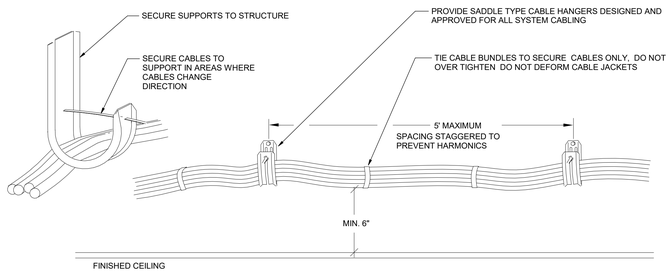
TETRA TECH
ARCHITECTS & ENGINEERS

Lakeland Central School District
Shrub Oak, New York

Reconstruction to:
Lakeland Copper Beech Middle School

Details

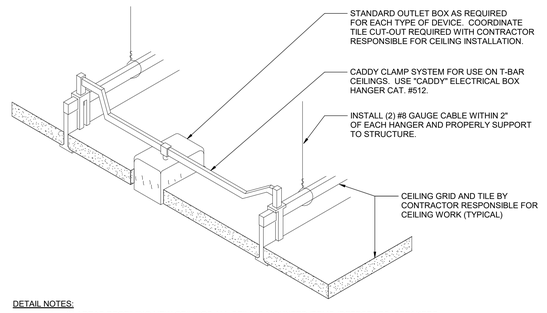
Drawn By:	Date:	Drawing Number:
SAS	10/13/2023	DE500
Project No.: 276721-23001		



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.

8 Typical Installation with Cable Hangars
NTS

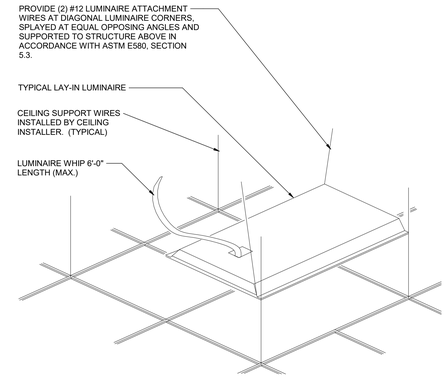


DETAIL NOTES:

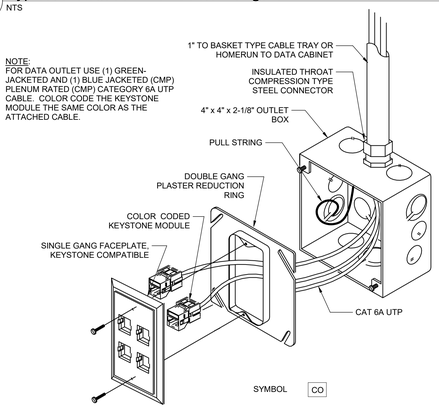
A. IN AREAS RECEIVING NEW CEILINGS ALL CEILING MOUNTED ITEMS (DETECTORS, SPEAKERS, ETC) ARE TO BE CENTERED WITHIN THE PATTERN OF THE CEILING PANEL. A 2'X4' PANEL SCORED TO A 2'X2' PATTERN SHALL HAVE ITEMS CENTERED IN THE 2'x2' PORTION.

B. PROVIDE ADDITIONAL SUPPORT FOR EXIT SIGNS, WHERE REQUIRED.

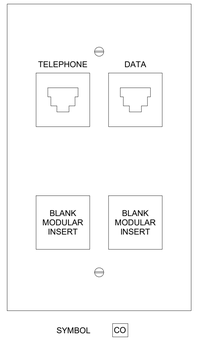
4 Ceiling Mounting Device Detail
NTS



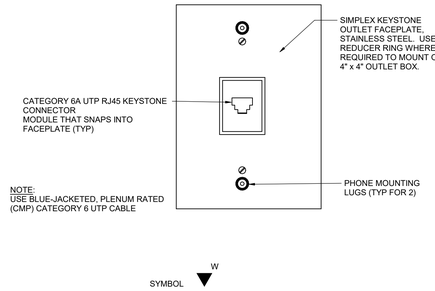
1 Typical Troffer Mounting Detail (Seismic Zones A,B,C)
NTS



10 Data Outlet
NTS

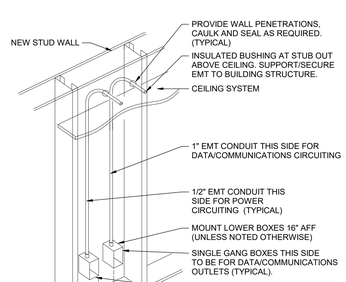


9 Typical Telephone Data Outlet Faceplate Configuration
NTS

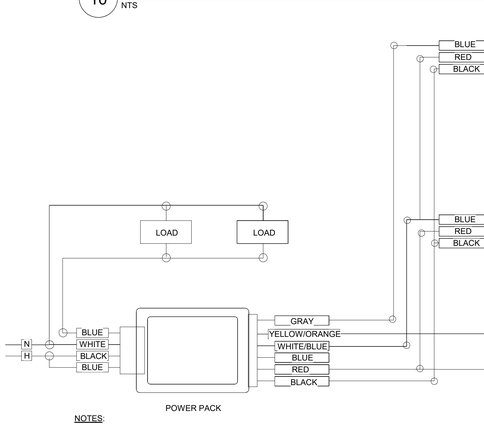


NOTE:
USE BLUE-JACKETED, PLENUM RATED (CMP) CATEGORY 6 UTP CABLE

5 Wall Phone
NTS



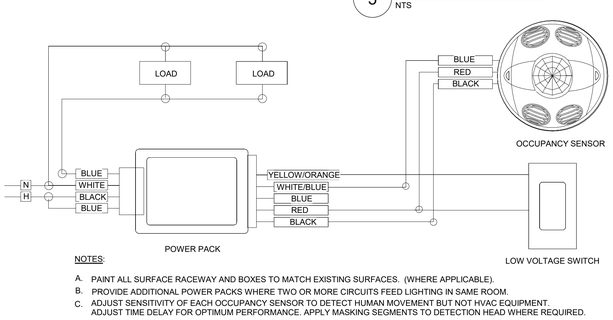
2 Conduit/Backbox Installation Detail
NTS



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.

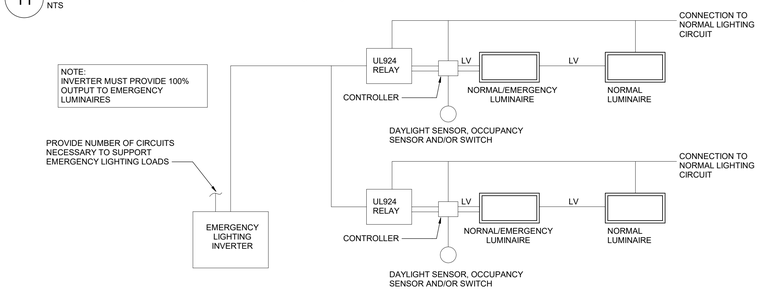
11 Daylight Responsive Controls Wiring Diagram
NTS



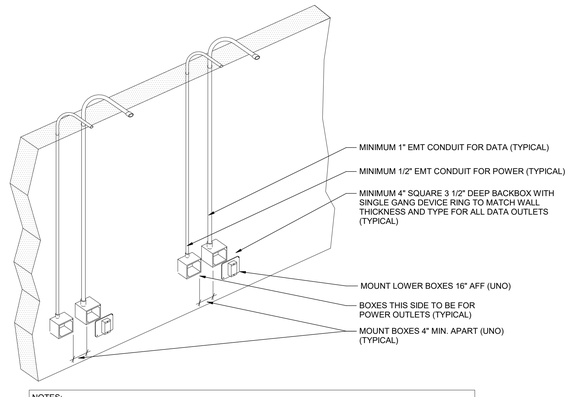
NOTES:

A. PAINT ALL SURFACE RACEWAY AND BOXES TO MATCH EXISTING SURFACES. (WHERE APPLICABLE).
B. PROVIDE ADDITIONAL POWER PACKS 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.

6 Occupancy Sensor Wiring Diagram
NTS

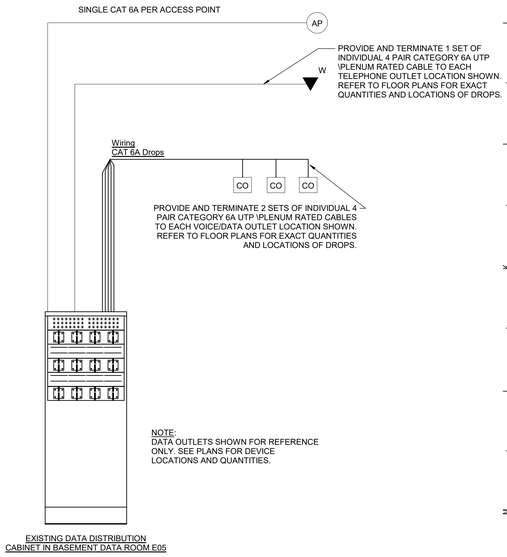


12 Emergency Miniature Inverter Wiring Diagram
NTS



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

7 Conduit/Backbox Installation Detail
NTS



3 Data Distribution Riser Diagram
NTS

S.E.D. Control No. 66-24-01-06-0-012-025

Rev. No.:	Date:	Description:

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

BID SET

TETRA TECH
ARCHITECTS & ENGINEERS

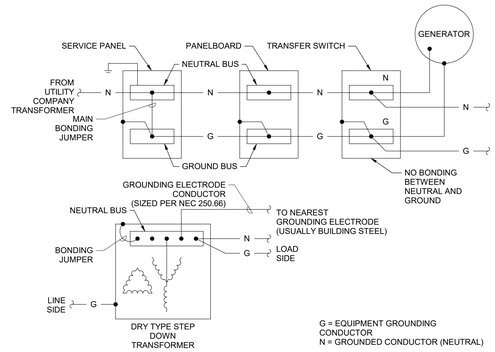
Lakeland Central School District
Shrub Oak, New York

Reconstruction to:
Lakeland Copper Beech Middle School

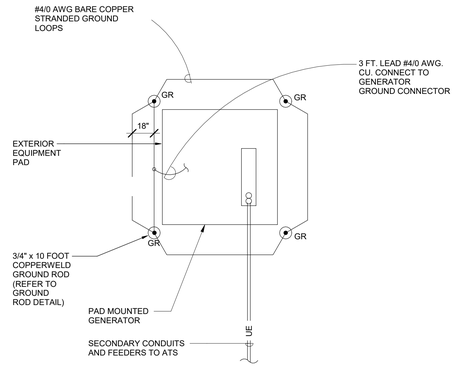
Details

Drawn By:	Date:	Drawing Number:
SAS	10/13/2023	DE501

Project No.: 276721-23001



1 Distribution System Grounding Detail
NTS



2 Exterior Generator Pad Grounding Field
NTS

S.E.D. Control No. 66-24-01-06-0-012-025

Rev. No.:	Date:	Description:

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

BID SET

TETRA TECH
ARCHITECTS & ENGINEERS

Lakeland Central School District
Shrub Oak, New York

Reconstruction to:
Lakeland Copper Beech Middle School

Details

Drawn By:	Date:	Drawing Number:
Author	10/13/2023	DE502

Project No.:
276721-23001

LUMINAIRE SCHEDULE

TYPE	SYMBOL	DESCRIPTION	LAMPS			MANUFACTURERS (OR EQUAL)	
			WATTAGE	LUMENS	TYPE	NAME	MODEL OR SERIES
1		2' x 2' FLAT PANEL (RECESSED IN GRID)	25	2903	LED	UTOPIA LIGHTING	ULP-2G-22-L25 (3500K)
1 EM		SAME AS TYPE 1 - WITH INTEGRAL BATTERY EXCEPT ROOM 304A CONNECT TO MINIATIRE IUNVERTER	25	2903	LED	UTOPIA LIGHTING	ULP-2G-22-L25 (3500K)
2		2' x 2' FLAT PANEL (RECESSED IN GRID)	30	3393	LED	UTOPIA LIGHTING	ULP-2G-22-L30 (3500K)
2 EM		SAME AS TYPE 2 - CONNECTED TO MINIATURE INVERTER	30	3393	LED	UTOPIA LIGHTING	ULP-2G-22-L30 (3500K)
3		2' x 2' FLAT PANEL (RECESSED IN GRID)	40	4404	LED	UTOPIA LIGHTING	ULP-2G-22-L40 (3500K)
3 EM		SAME AS TYPE 3 - CONNECTED TO MINIATURE INVERTER	40	4404	LED	UTOPIA LIGHTING	ULP-2G-22-L40 (3500K)
4		.77" X .84" SURFACE LINEAR WITH DYNAMIC WHITE, REFER TO PLAN FOR LENGTHS	7.3/FOOT	442/FOOT	LED	LUMINII	45LD-35K8-DIM1-DV-5F-4H
5		4.5" DOWNLIGHT (RECESSED IN GYP)	17.9	953	LED	H.E. WILLIAMS	4DR-TL-L15-8-35-10W-DIM-UNV-RW-OF-CS
5 EM		SAME AS TYPE 7- CONNECT TO MINIATURE INVERTER	17.9	953	LED	H.E. WILLIAMS	4DR-TL-L15-8-35-10W-DIM-UNV-RW-OF-CS
6		.75"X.72" FLEXIBLE RGBW CHANNEL ACCENT WITH CLEAR END CAPS (MOUNTED ON UNDERSIDE EDGE OF COUNTER, LENS DOWN-REFER TO PLAN FOR LENGTH)	6 WATT/FOOT	REFER TO MANUFACTURER	LED	QTRAN	BOXA-RGBW-SGC-IP20-RGBW-30-6.0-ENC/CL-SS-CL-E
20		EXIT SIGN CEILING MOUNT SEE PLANS FOR DIRECTIONAL INDICATORS	4.8		LED	H.E. WILLIAMS	EXIT-R-EM-WHT
40 EM		EXTERIOR WALL MOUNTED WITH INTEGRAL BATTERY	16	2037	LED	H.E. WILLIAMS	VWM H -L17-T3-740-T3

** ALL LUMINAIRES ARE 120V

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

1 Luminaire Schedule
NTS

PANELBOARD: PPD1

Location: PREP ROOM 201 | 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**

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

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					LTS: EMERGENCY	330 VA	1470 VA					LTS: 100, 103, 201, 20...					20 A	1	2
3	1	20 A					RCPT: 103			720 VA	720 VA			RCPT: 103					20 A	1	4
5	1	20 A					RCPT: 103					720 VA	720 VA	RCPT: 103					20 A	1	6
7	1	20 A					RCPT: 100	540 VA	900 VA					RCPT: 100					20 A	1	8
9	1	20 A					RCPT: 100			900 VA	720 VA			RCPT: 201					20 A	1	10
11	1	20 A					RCPT: 201					720 VA	720 VA	RCPT: 205					20 A	1	12
13	1	20 A					RCPT: 205	720 VA	720 VA					RCPT: 205					20 A	1	14
15	1	20 A					RCPT: 205			720 VA	720 VA			RCPT: 207					20 A	1	16
17	1	20 A					RCPT: 207					720 VA	720 VA	RCPT: 207					20 A	1	18
19	1	20 A					RCPT: 207	900 VA													20
21																					22
23													1584 VA	F-1D THRU F-3D					20 A	1	24
25	1	20 A					F-4D THRU F-6D	1306 VA	540 VA					RCPT: 100 & 103					20 A	1	26
27	1	20 A					RCPT: 201 (FRIDGE)			180 VA	1080 VA			RCPT: 103 (CORD...					20 A	1	28
29	1	20 A					RCPT: 103 (CORD...					1080 VA	1080 VA	RCPT: 100 (CORD...					20 A	1	30
31	1	20 A					RCPT: 100 (CORD...	1080 VA	1080 VA					RCPT: 205 (CORD...					20 A	1	32
33	1	20 A					RCPT: 205 (CORD...			1080 VA	1080 VA			RCPT: 207 (CORD...					20 A	1	34
35	1	20 A					RCPT: 207 (CORD...					1080 VA	0 VA	SPARE					20 A	1	36
37	1	20 A					SPARE	0 VA	0 VA					SPARE					20 A	1	38
39	1	20 A					SPARE			0 VA	0 VA			SPARE					20 A	1	40
41	1	20 A					SPARE					0 VA	0 VA	SPARE					20 A	1	42
							TOTAL CONNECTED LOAD PER PHASE...	9513 VA		7920 VA		9144 VA									
								A		**B**		**C**									

*** -GFCI BREAKER** **** -SHUNT TRIP BREAKER**

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

TOTAL CONNECTED LOAD: 74 A
TOTAL CONNECTED LOAD: 26.566 kVA

SUPPLIED FROM: SDP

PANELBOARD: PPE1

Location: LIBRARY 304 | 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**

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

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					LTS: 304	1836 VA	517 VA					LTS: EMERGENCY					20 A	1	2
3	1	20 A					LTS: 304			1365 VA	900 VA			RCPT: 304F					20 A	1	4
5	1	20 A					RCPT: 304E					720 VA	900 VA	RCPT: 304D					20 A	1	6
7	1	20 A					RCPT: 304C	900 VA	720 VA					RCPT: 304					20 A	1	8
9	1	20 A					RCPT: 304			900 VA	360 VA			RCPT: 304 (FLOOR...					20 A	1	10
11	1	20 A					RCPT: 304B					900 VA	900 VA	RCPT: 304B					20 A	1	12
13	1	20 A					RCPT: 304A	720 VA	900 VA					RCPT: 304A					20 A	1	14
15	1	20 A					RCPT: 304			900 VA	720 VA			RCPT: 306					20 A	1	16
17	1	20 A					RCPT: 306					540 VA	360 VA	RCPT: 306					20 A	1	18
19	1	20 A					RCPT: 304	900 VA	1080 VA					RCPT: 304 (USB)					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	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
31	1	20 A					SPARE	0 VA	0 VA					SPARE					20 A	1	32
33	1	20 A					SPARE			0 VA	0 VA			SPARE					20 A	1	34
35	1	20 A					SPARE					0 VA	0 VA	SPARE					20 A	1	36
37	1	20 A					SPARE	0 VA	0 VA					SPARE					20 A	1	38
39	1	20 A					SPARE			0 VA	0 VA			SPARE					20 A	1	40
41	1	20 A					SPARE					0 VA	0 VA	SPARE					20 A	1	42
							TOTAL CONNECTED LOAD PER PHASE...	7548 VA		5095 VA		4320 VA									
								A		**B**		**C**									

*** -GFCI BREAKER** **** -SHUNT TRIP BREAKER**

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

TOTAL CONNECTED LOAD: 47 A
TOTAL CONNECTED LOAD: 16.954 kVA

SUPPLIED FROM:

PANELBOARD: PPF1

Location: STORAGE - | 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**

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

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					LTS: 338, 339, 339A & B	960 VA	320 VA					LTS: EMERGENCY					20 A	1	2
3	1	20 A					LTS: EXTERIOR			80 VA	720 VA			RCPT: 338					20 A	1	4
5	1	20 A					RCPT: 338					720 VA	720 VA	RCPT: 338					20 A	1	6
7	1	20 A					RCPT: 339A	900 VA	900 VA					RCPT: 339A					20 A	1	8
9	1	20 A					RCPT: 339B			720 VA	180 VA			RCPT: 339B (FRIDGE)					20 A	1	10
11	1	20 A					RCPT: 339B					900 VA	900 VA	RCPT: 339					20 A	1	12
13	1	20 A					RCPT: 339	720 VA	540 VA					RCPT: 339					20 A	1	14
15																					16
17	1	20 A					FCU-1D					900 VA	720 VA	RCPT: 339B					20 A	1	18
19	1	20 A					F-7D THRU F-9D	1306 VA	1800 VA					CONN: BURNER (338)					20 A	1	20
21	1	20 A					CONN: BURNER (338)			1800 VA	1800 VA			CONN: BURNER (338)					20 A	1	22
23	1	20 A					RCPT: 338...					500 VA	1800 VA	CONN: BURNER (338)					20 A	1	24
25	1	20 A					RCPT: EXTERIOR	180 VA	500 VA					RCPT: 338...					20 A	1	26
27	1	20 A					SPARE			0 VA	180 VA			RCPT: 339 WASHER					20 A	1	28
29	1	20 A					SPARE					0 VA	180 VA	RCPT: 339 LIFT...					20 A	1	30
31	2	20 A					RCPT: 339 DRYER	180 VA	0 VA					SPARE					20 A	1	32
33										0 VA	0 VA			SPARE					20 A	1	34
35	2	20 A					RCPT: 338 OVEN					180 VA	0 VA	SPARE					20 A	1	36
37								0 VA	0 VA					SPARE					20 A	1	38
39	2	20 A					RCPT: 338 OVEN			180 VA	1200 VA			RCU-1D					20 A	2	40
41												0 VA	1200 VA								42
							TOTAL CONNECTED LOAD PER PHASE...	8252 VA		6860 VA		8720 VA									
								A		**B**		**C**									

*** -GFCI BREAKER** **** -SHUNT TRIP BREAKER**

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

TOTAL CONNECTED LOAD: 66 A
TOTAL CONNECTED LOAD: 23.825 kVA

SUPPLIED FROM: SDP

S.E.D. Control No. 66-24-01-06-0-012-025

Rev. No.:	Date:	Description:

complex world | CLEAR SOLUTIONS

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

BID SET

TETRA TECH
ARCHITECTS & ENGINEERS

Lakeland Central School District
Shrub Oak, New York

Reconstruction to:
Lakeland Copper Beech Middle School

Schedules

Drawn By:	Date:	Drawing Number:
SAS	10/13/2023	DE600

Project No.: 276721-23001

PANELBOARD: PANEL P (EM)

Location: BOILER - | 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 ____

480Y/277V 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								0 VA	0 VA												2
3	3	20 A					EXG LOAD (BOILER)			0 VA	0 VA			EXG LOAD (COMPRESSOR)					20 A	3	4
5												0 VA	0 VA								6
7								0 VA	0 VA												8
9	3	20 A					EXG LOAD (COMPRESSOR)			0 VA	0 VA			SPARE					20 A	3	10
11												0 VA	0 VA								12
13								0 VA	0 VA												14
15	3	20 A					SPARE			0 VA	0 VA			SPARE					20 A	3	16
17												0 VA	0 VA								18
19	--	--					SPACE	0 VA	0 VA					SPACE					--	--	20
21	--	--					SPACE			0 VA	0 VA			SPACE					--	--	22
23	--	--					SPACE					0 VA	0 VA	SPACE					--	--	24
25	--	--					SPACE	0 VA	0 VA					SPACE					--	--	26
27	--	--					SPACE			0 VA	0 VA			SPACE					--	--	28
29	--	--					SPACE					0 VA	0 VA	SPACE					--	--	30
31	--	--					SPACE	0 VA	0 VA					SPACE					--	--	32
33	--	--					SPACE			0 VA	0 VA			SPACE					--	--	34
35	--	--					SPACE					0 VA	0 VA	SPACE					--	--	36
37	--	--					SPACE	0 VA	0 VA					SPACE					--	--	38
39	--	--					SPACE			0 VA	0 VA			SPACE					--	--	40
41	--	--					SPACE					0 VA	0 VA	SPACE					--	--	42
							TOTAL CONNECTED LOAD PER PHASE...	0 VA		0 VA		0 VA									
								A		**B**		**C**									

* -GFCI BREAKER ** -SHUNT TRIP BREAKER

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

TOTAL CONNECTED LOAD: 0 A
TOTAL CONNECTED LOAD: 0.000 kVA

SUPPLIED FROM: ____

PANELBOARD: PANEL P

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

____ **AMP MAIN (LUGS) OR** 150 A **AMP MAIN BREAKER WITH** 150 A **AMP TRIP**

SE LABEL ____

480Y/277V VOLTS 3 **PHASE** 4 **WIRE** 60 **HERTZ** 150 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								0 VA	0 VA												2
3	3	20 A					EXG LOAD			0 VA	0 VA			EXG LOAD					20 A	3	4
5												0 VA	0 VA								6
7								0 VA	0 VA												8
9	3	20 A					EXG LOAD			0 VA	0 VA			EXG LOAD					20 A	3	10
11												0 VA	0 VA								12
13								0 VA	0 VA												14
15	3	40 A					EXG LOAD			0 VA	0 VA			EXG LOAD					40 A	3	16
17												0 VA	0 VA								18
19								0 VA	0 VA												20
21	3	40 A					EXG LOAD			0 VA	0 VA			EXG LOAD					40 A	3	22
23												0 VA	0 VA								24
25								0 VA	0 VA												26
27	3	40 A					EXG LOAD			0 VA	0 VA			EXG LOAD					70 A	3	28
29												0 VA	0 VA								30
31								0 VA	0 VA												32
33	3	70 A					EXG LOAD			0 VA	0 VA			EXG LOAD					70 A	3	34
35												0 VA	0 VA								36
37								0 VA	0 VA												38
39	3	20 A					SPARE			0 VA	0 VA			SPARE					20 A	3	40
41												0 VA	0 VA								42
							TOTAL CONNECTED LOAD PER PHASE...	0 VA		0 VA		0 VA									
								A		**B**		**C**									

* -GFCI BREAKER ** -SHUNT TRIP BREAKER

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

TOTAL CONNECTED LOAD: 0 A
TOTAL CONNECTED LOAD: 0.000 kVA

SUPPLIED FROM: ____

PANELBOARD: PANEL S (LEFT)

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

____ **AMP MAIN (LUGS) OR** 150 A **AMP MAIN BREAKER WITH** 150 A **AMP TRIP**

SE LABEL ____

480Y/277V VOLTS 3 **PHASE** 4 **WIRE** 60 **HERTZ** 150 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					EXG LOAD	0 VA	0 VA					EXG LOAD					20 A	1	2
3										0 VA	0 VA										4
5	3	20 A					EXG LOAD					0 VA	0 VA	EXG LOAD					20 A	3	6
7								0 VA	0 VA												8
9										0 VA	0 VA										10
11	3	20 A					EXG LOAD					0 VA	0 VA	EXG LOAD					20 A	3	12
13								0 VA	0 VA												14
15										0 VA	0 VA										16
17	3	20 A					EXG LOAD					0 VA	0 VA	EXG LOAD					20 A	3	18
19								0 VA	0 VA												20
21										0 VA	0 VA										22
23	3	30 A					EXG LOAD					0 VA	0 VA	EXG LOAD					40 A	3	24
25								0 VA	0 VA												26
27										0 VA	0 VA										28
29	3	40 A					EXG LOAD					0 VA	0 VA	EXG LOAD					70 A	3	30
31								0 VA	0 VA												32
33	1	20 A					SPARE			0 VA	0 VA			SPARE					20 A	1	34
35	1	20 A					SPARE					0 VA	0 VA	SPARE					20 A	1	36
37								0 VA	0 VA												38
39	3	20 A					SPARE			0 VA	0 VA			SPARE					20 A	3	40
41												0 VA	0 VA								42
							TOTAL CONNECTED LOAD PER PHASE...	0 VA		0 VA		0 VA									
								A		**B**		**C**									

* -GFCI BREAKER ** -SHUNT TRIP BREAKER

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

NOTE:
PROVIDE SUB-FEED LUGS FOR PANEL S (RIGHT)

TOTAL CONNECTED LOAD: 0 A
TOTAL CONNECTED LOAD: 0.000 kVA

SUPPLIED FROM: ____

PANELBOARD: PANEL S (RIGHT)

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

____ **AMP MAIN (LUGS) OR** 150 A **AMP MAIN BREAKER WITH** 150 A **AMP TRIP**

SE LABEL ____

480Y/277V VOLTS 3 **PHASE** 4 **WIRE** 60 **HERTZ** 150 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					EXG LOAD	0 VA	0 VA					EXG LOAD					20 A	1	2
3	1	20 A					EXG LOAD			0 VA	0 VA			EXG LOAD					20 A	1	4
5	1	20 A					EXG LOAD					0 VA	0 VA	SPARE					20 A	1	6
7	2	20 A					EXG LOAD	0 VA	0 VA												8
9										0 VA	0 VA			EXG LOAD					20 A	3	10
11	1	20 A					NURSE LIGHTS					0 VA	0 VA								12
13								0 VA	0 VA												14
15	3	20 A					EXG LOAD			0 VA	0 VA			EXG LOAD					20 A	3	16
17												0 VA	0 VA								18
19								0 VA	0 VA												20
21	3	20 A					EXG LOAD			0 VA	0 VA			EXG LOAD					20 A	3	22
23												0 VA	0 VA								24
25								0 VA	0 VA												26
27	3	20 A					EXG LOAD			0 VA	0 VA			EXG LOAD					30 A	3	28
29												0 VA	0 VA								30
31								0 VA	0 VA												32
33	3	40 A					EXG LOAD			0 VA	0 VA			30KVA TRANSFORMER					50 A	3	34
35												0 VA	0 VA								36
37								0 VA	0 VA					SPARE					20 A	1	38
39	3	20 A					SPARE			0 VA	0 VA			SPARE					20 A	1	40
41												0 VA	0 VA	SPARE					20 A	1	42
							TOTAL CONNECTED LOAD PER PHASE...	0 VA		0 VA		0 VA									
								A		**B**		**C**									

* -GFCI BREAKER ** -SHUNT TRIP BREAKER

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

TOTAL CONNECTED LOAD: 0 A
TOTAL CONNECTED LOAD: 0.000 kVA

SUPPLIED FROM: PANEL S (LEFT)

PANELBOARD: PANEL V

Location: BOILER - | 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					EXG LOAD	0 VA	0 VA					EXG LOAD					20 A	1	2
3	1	20 A					EXG LOAD			0 VA	0 VA			EXG LOAD					20 A	1	4
5	1	20 A					EXG LOAD					0 VA	0 VA	EXG LOAD					20 A	1	6
7	1	20 A					EXG LOAD	0 VA	0 VA					EXG LOAD					20 A	1	8
9	1	20 A					EXG LOAD			0 VA	0 VA			EXG LOAD					20 A	1	10
11	1	20 A					EXG LOAD					0 VA	0 VA	EXG LOAD					20 A	1	12
13	1	20 A					EXG LOAD	0 VA	0 VA					EXG LOAD					20 A	1	14
15	1	20 A					GENERATOR HEATER			0 VA	0 VA			NURSE RCPTS					20 A	1	16
17	1	20 A					GENERATOR BATTERY					0 VA	0 VA	WALK-IN LIGHT & FAN					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	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
31	1	20 A					SPARE	0 VA	0 VA												32
33	1	20 A					SPARE			0 VA	0 VA			FREEZER					30 A	3	34
35	1	20 A					SPARE					0 VA	0 VA								36
37								0 VA	0 VA												38
39	3	20 A					WALK-IN FRIDGE			0 VA	0 VA			WALK-IN FRIDGE					20 A	3	40
41												0 VA	0 VA								42
							TOTAL CONNECTED LOAD PER PHASE...	0 VA		0 VA		0 VA									
								A		**B**		**C**									

* -GFCI BREAKER ** -SHUNT TRIP BREAKER

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

TOTAL CONNECTED LOAD: 0 A
TOTAL CONNECTED LOAD: 0.000 kVA

SUPPLIED FROM: 30KVA TRANSFORMER

S.E.D. Control No. 66-24-01-06-0-012-025

Rev. No.:	Date:	Description:

complex world | CLEAR SOLUTIONS

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

BID SET

TETRA TECH
ARCHITECTS & ENGINEERS

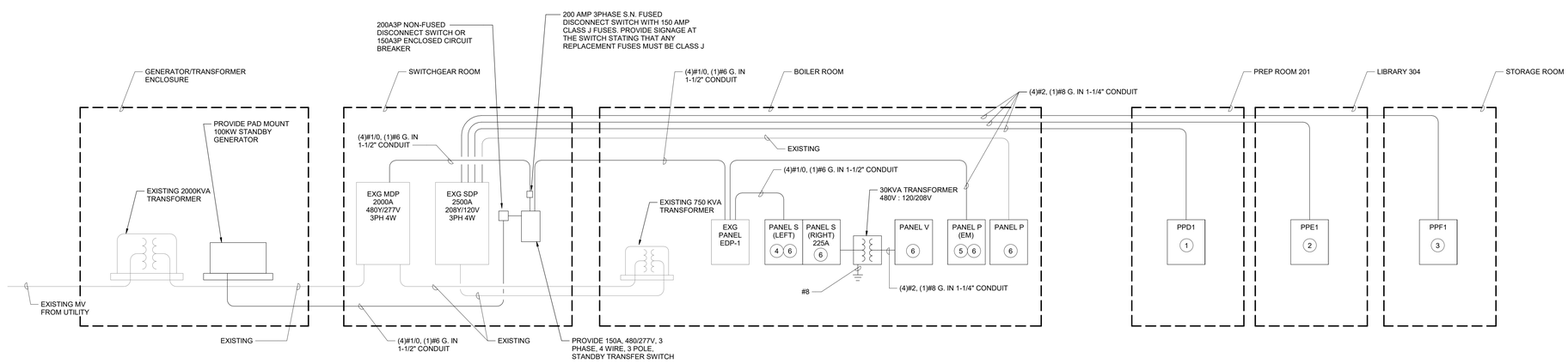
Lakeland Central School District
Shrub Oak, New York

Reconstruction to:
Lakeland Copper Beech Middle School

Schedules

Drawn By:	Date:	Drawing Number:
Author	10/13/2023	DE601

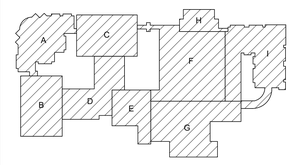
Project No.: 276721-23001



1 One-Line Diagram
NTS

Keyed Notes:

1. CONNECT PANEL PPD1 TO SPARE 100A-3P BREAKER IN SDP.
2. PROVIDE 100A-3P BREAKER IN AVAILABLE SPACE IN SPD AND CONNECT TO PANEL PPE1.
3. REMOVE SPARE 20A-3P BREAKER IN SPD AND PROVIDE 100A-3P BREAKER IN SAME SPACE IN SDP. CONNECT TO PANEL PPF1.
4. REMOVE 125A-3P BREAKER IN PANEL EPD-1 AND PROVIDE 150A-3P BREAKER IN SAME SPACE IN PANEL EPD-1. CONNECT TO PANEL S.
5. PROVIDE 100A-3P BREAKER IN AVAILABLE SPACE IN PANEL EDP-1 AND CONNECT TO PANEL P (EM)
6. REPLACE EXISTING PANELBOARD, REFER TO DRAWING DE601 FOR PANELBOARD SCHEDULES.



Key Plan
N.T.S.

N

S.E.D. Control No. 66-24-01-06-0-012-025

Rev. No.:	Date:	Description:

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

BID SET

TETRA TECH
ARCHITECTS & ENGINEERS

Lakeland Central School District
Shrub Oak, New York

Reconstruction to:
Lakeland Copper Beech Middle School

One-Line Diagram

Drawn By:	Date:	Drawing Number:
Author	10/13/2023	DE700
Project No.: 276721-23001		

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.

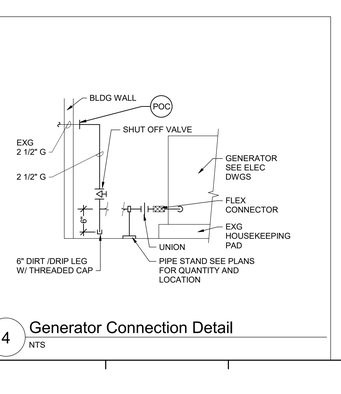
F. REFER TO DRAWING NO. DP402 FOR PLUMBING FIXTURE SCHEDULE.

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 ARCHITECTURAL OR CODE COMPLIANCE DRAWINGS FOR LOCATION OF FIRE RATED WALLS AND FLOORS.

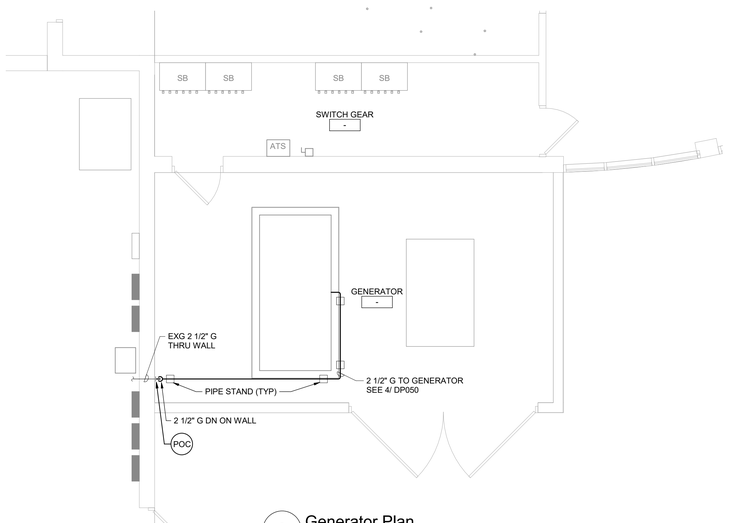
H. COORDINATE WORK WITH MECHANICAL DRAWINGS AND SPECIFICATIONS.

I. COORDINATE WORK WITH ASBESTOS DRAWINGS AND SPECIFICATIONS.

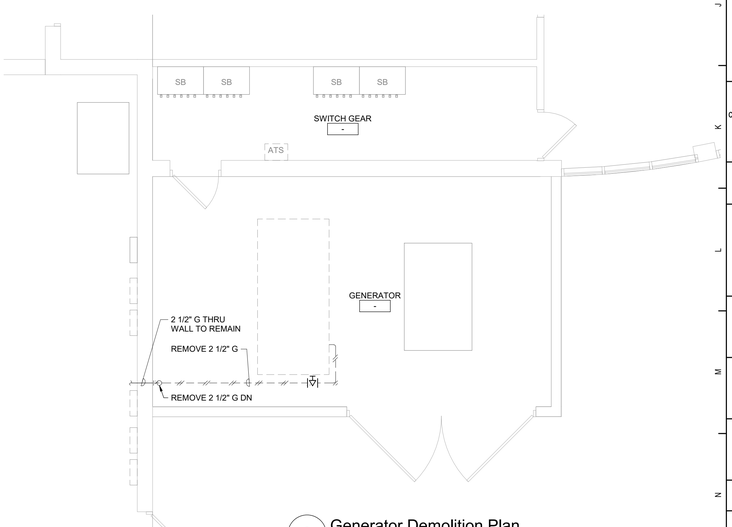
1 First Floor Key Plan
3/64" = 1'-0"



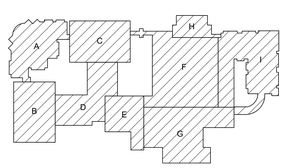
4 Generator Connection Detail
NTS



3 Generator Plan
1/4" = 1'-0"



2 Generator Demolition Plan
1/4" = 1'-0"



Key Plan
N.T.S.

N

S.E.D. Control No. 66-24-01-06-0-012-025

Rev. No.:	Date:	Description:

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

BID SET

TETRA TECH
ARCHITECTS & ENGINEERS

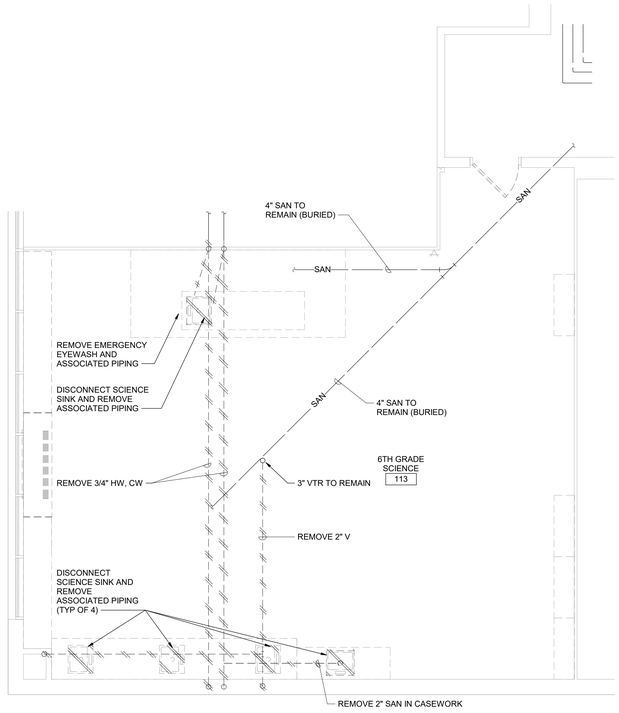
Lakeland Central School District
Shrub Oak, New York

Reconstruction to:
Lakeland Copper Beech Middle School

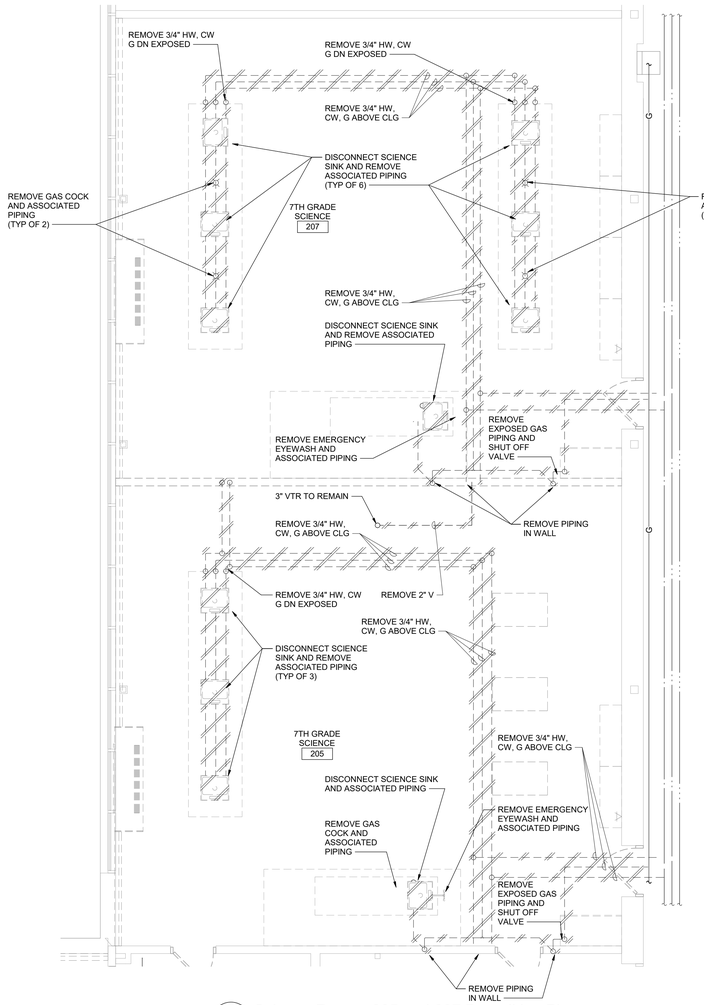
First Floor Key Plan and Details

Drawn By:	Date:	Drawing Number:
DCG/ sef	10/13/2023	DP050

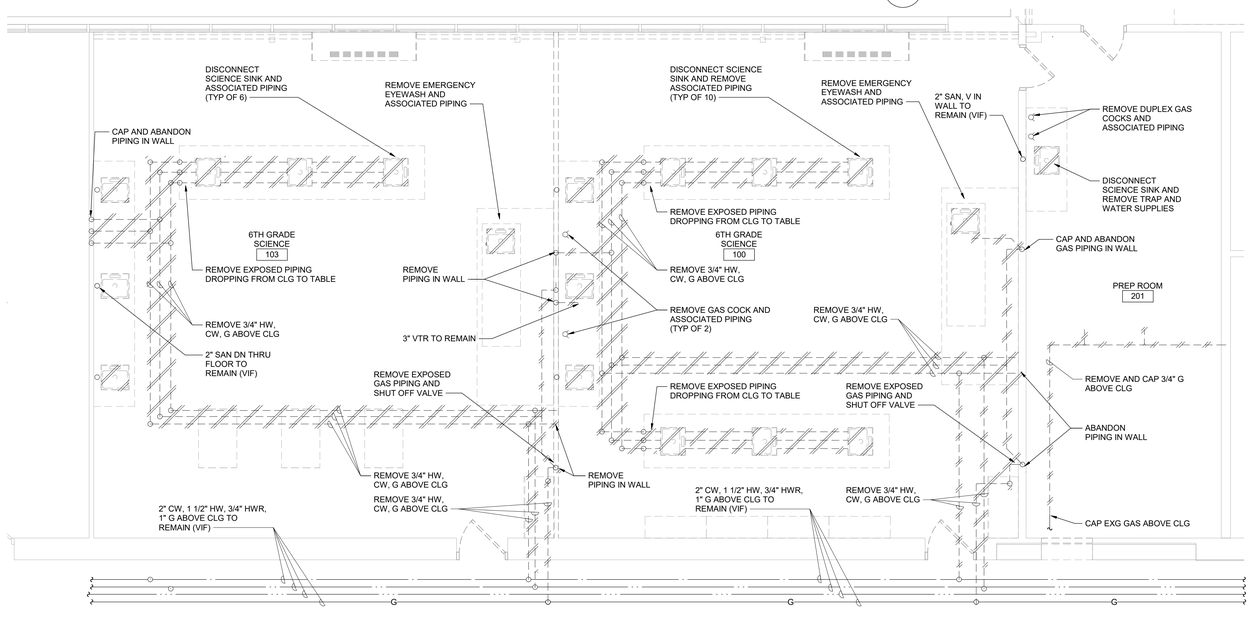
Project No.: 276721-23001



3 Science Room 113 Demolition Plan
1/4" = 1'-0"

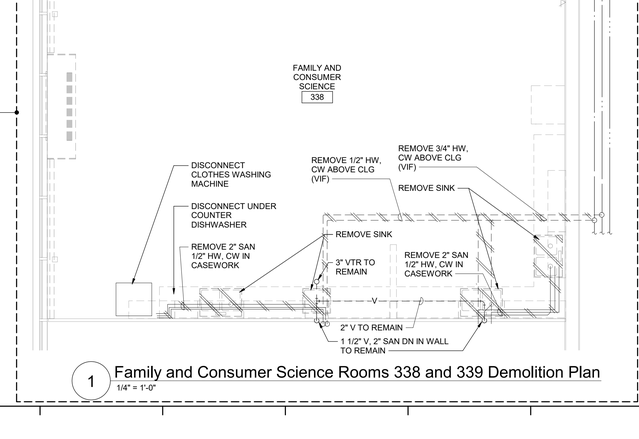


2 Science Rooms 205 and 207 Demolition Plan
1/4" = 1'-0"



4 Science Rooms 100 and 103 Demolition Plan
1/4" = 1'-0"

BY ALTERNATE



1 Family and Consumer Science Rooms 338 and 339 Demolition Plan
1/4" = 1'-0"

Plan Notes

A. REFER TO DRAWING NO. DP050 FOR GENERAL NOTES.

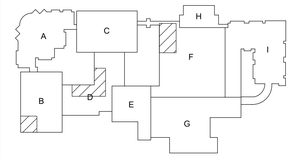
B. REMOVE PLUMBING FIXTURES INDICATED, INCLUDING ASSOCIATED PIPING, FASTENERS, SUPPORTS, ETC., BACK TO POINTS OF CONCEALMENT WITHIN OR BEHIND REMAINING WALLS, BELOW FLOORS OR ABOVE CEILINGS.

C. DISCONNECT SCIENCE FIXTURES AND APPLIANCES INDICATED, INCLUDING REMOVAL OF ASSOCIATED PIPING, FASTENERS, SUPPORTS, ETC., BACK TO POINTS OF CONCEALMENT WITHIN OR BEHIND REMAINING WALLS, BELOW FLOORS OR ABOVE CEILINGS.

D. 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.

E. COORDINATE WORK WITH ABATEMENT DRAWINGS AND SPECIFICATIONS.

F. COORDINATE WORK WITH MECHANICAL DRAWINGS AND SPECIFICATIONS.



Key Plan
N.T.S.

N

S.E.D. Control No. 66-24-01-06-0-012-025

Rev. No.:	Date:	Description:

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

BID SET

TETRA TECH
ARCHITECTS & ENGINEERS

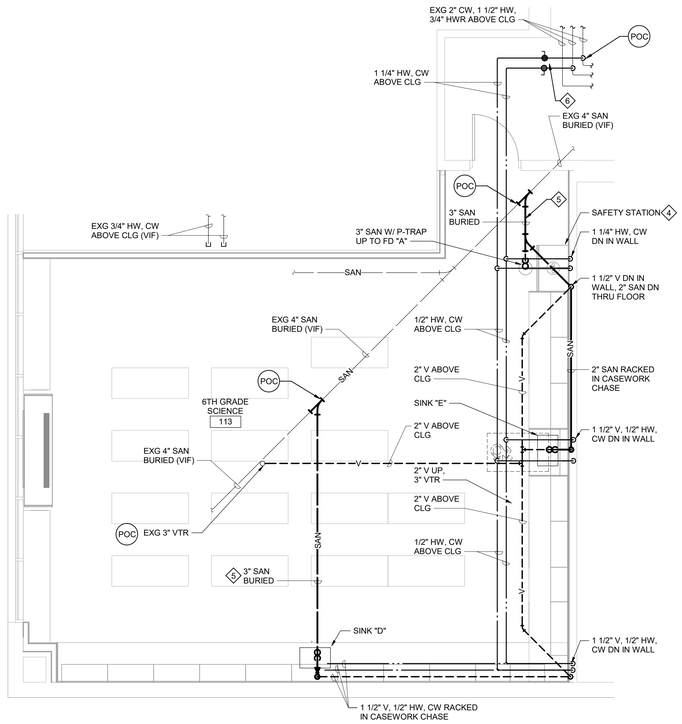
Lakeland Central School District
Shrub Oak, New York

Reconstruction to:
Lakeland Copper Beech Middle School

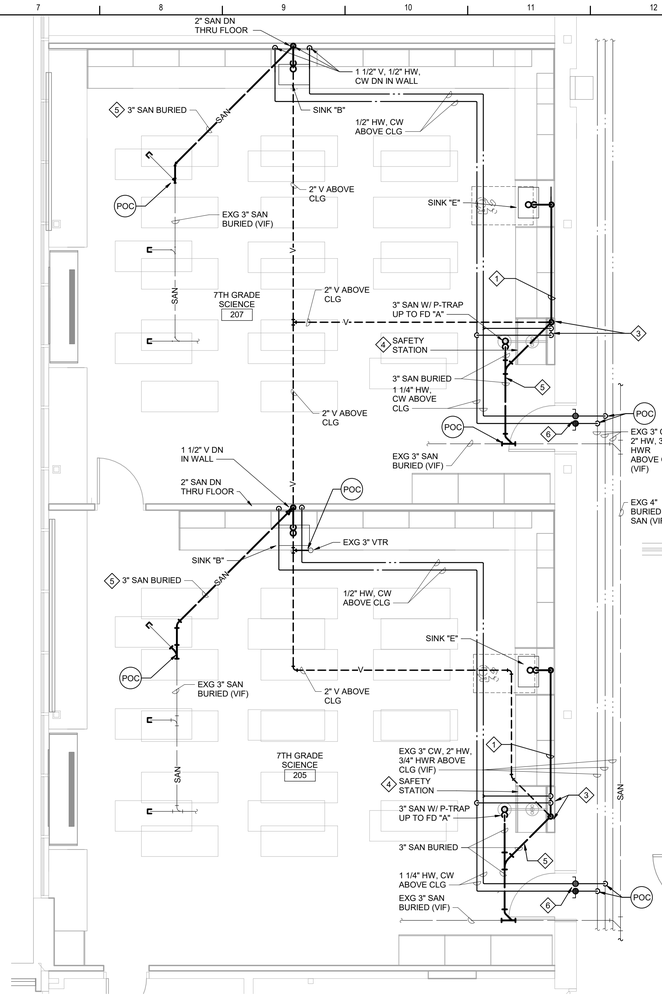
Enlarged Science and Family and Consumer Science Demolition Plans

Drawn By:	Date:	Drawing Number:
DCG/ sef	10/13/2023	DP400

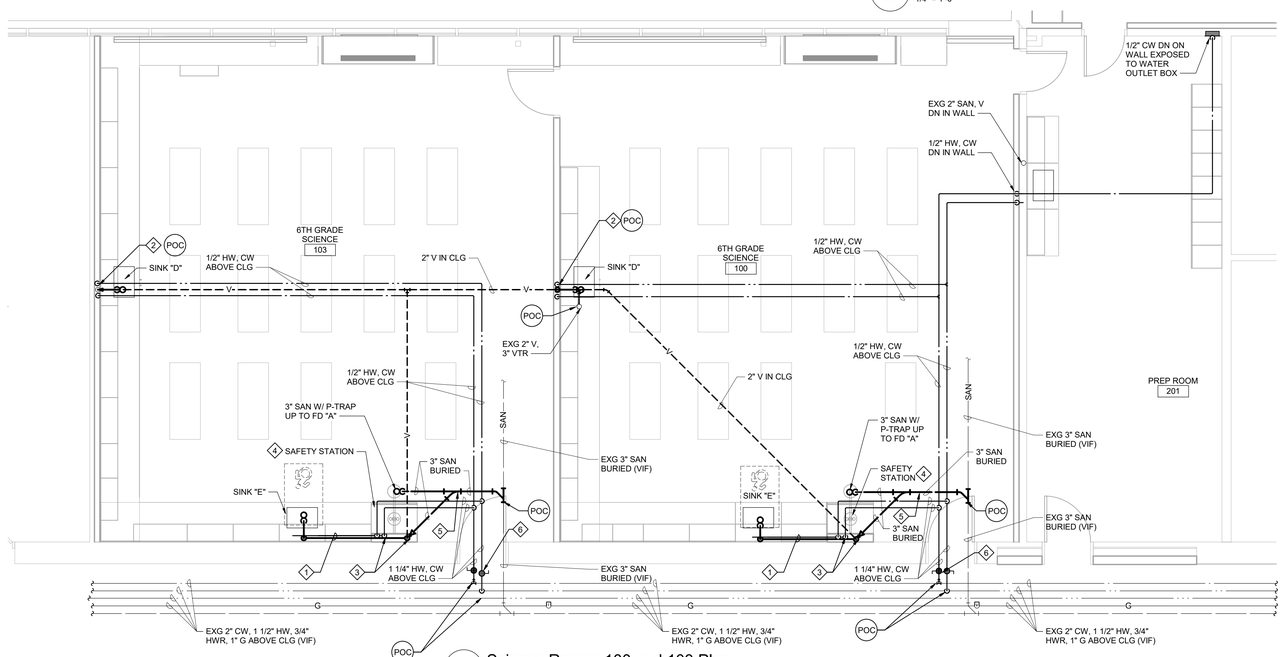
Project No.:
276721-23001



3 Science Room 113 Plan
1/4" = 1'-0"

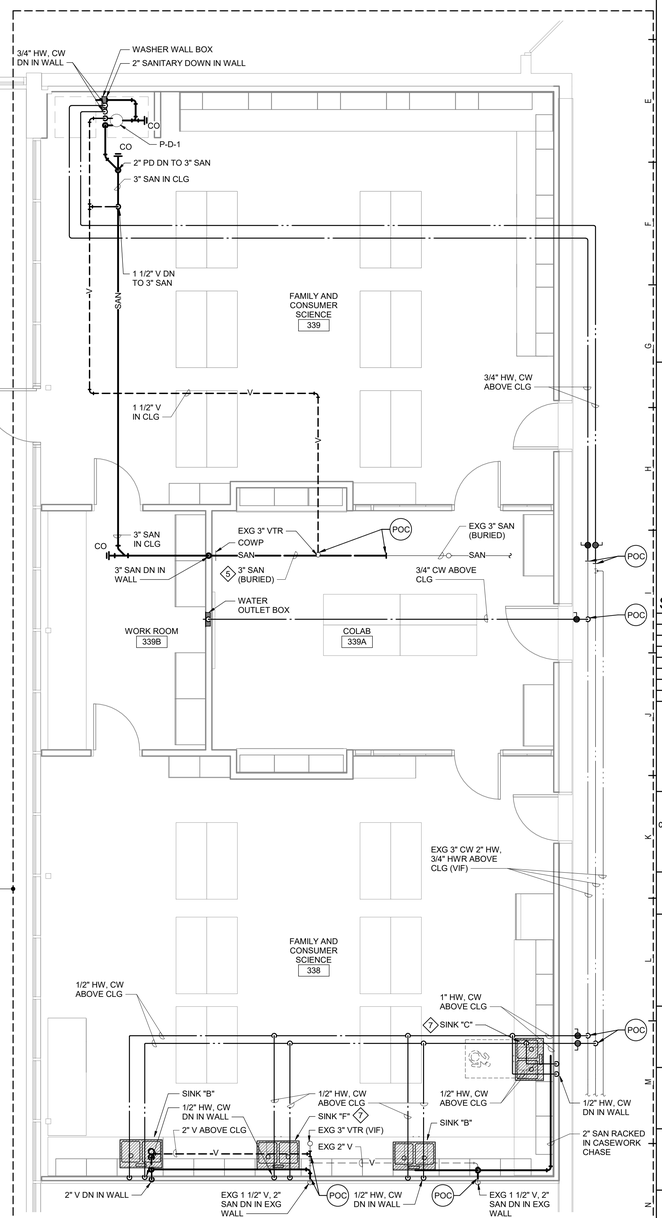


2 Science Rooms 205 and 207 Plan
1/4" = 1'-0"



4 Science Rooms 100 and 103 Plan
1/4" = 1'-0"

WORK BY ALTERNATE CB-01



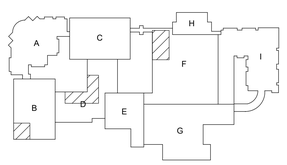
1 Family and Consumer Science Rooms 338 and 339 Plan
1/4" = 1'-0"

Plan Notes

A. REFER TO DRAWING NO. DP050 FOR GENERAL NOTES.

Plumbing Notes

1. 2" SANITARY, 1/2" HOT WATER, 1/2" COLD WATER RACKED ON WALL IN CASEWORK CHASE.
2. 2" SANITARY DOWN IN WALL. CONNECT TO EXISTING 2" SANITARY DOWN THROUGH FLOOR.
3. 1 1/4" HOT WATER, 1 1/4" COLD WATER, AND 2" VENT DOWN IN WALL, 2" SANITARY DOWN THROUGH FLOOR.
4. SEE DETAIL 4/DP402 FOR ADDITIONAL INFORMATION.
5. SEE DETAIL 8/DP402 FOR ADDITIONAL INFORMATION.
6. PROVIDE VALVE FUNCTION SIGNAGE ON COLD AND HOT WATER VALVES: EMERGENCY FIXTURE - NO UNAUTHORIZED SHUT-OFF.
7. REFER TO DETAIL 6/DP402 FOR ADDITIONAL INFORMATION.



Key Plan
N.T.S.

N

S.E.D. Control No. 66-24-01-06-0-012-025

Rev. No.:	Date:	Description:

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

BID SET

TETRA TECH
ARCHITECTS & ENGINEERS

Lakeland Central School District
Shrub Oak, New York

Reconstruction to:
Lakeland Copper Beech Middle School

Enlarged Science and Family and Consumer Science Plans

Drawn By:	Date:	Drawing Number:
DCG / sef	10/13/2023	DP401

Project No.: 276721-23001

Plumbing Fixture Schedule

DWG LABEL	ROUGH-IN CONNECTION SIZE (INCHES)				BARRIER FREE	AGE GROUP	RIM HEIGHT	DESCRIPTION	NOTES
	SAN	VENT	CW	HW					
SINK "A"	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.	1, 2
SINK "B"	1 1/2	1 1/2	1/2	1/2	NO	ADULT	-	DOUBLE BOWL, STAINLESS STEEL, COUNTER MOUNTED SINK W/ MANUAL, SINGLE CONTROL MIXING FAUCET W/ SWING SPOUT, SUPPLIES, CONTINUOUS WASTE, DRAIN FITTINGS AND TRAP.	1, 2
SINK "C"	1 1/2	1 1/2	1/2	1/2	YES	ADULT	-	ACCESSIBLE , DOUBLE BOWL, STAINLESS STEEL, COUNTER MOUNTED SINK W/ MANUAL, SINGLE CONTROL MIXING FAUCET W/ SWING SPOUT, SUPPLIES, CONTINUOUS WASTE, OFFSET DRAIN FITTINGS AND TRAP WITH DISHWASHER TAILPIECE.	1, 2
SINK "D"	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 DILUTION TRAP.	1, 2, 5
SINK "E"	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, SUPPLIES, PP SINK OUTLET FITTING AND DILUTIONTRAP.	1, 2, 5
SINK "F"	1 1/2	1 1/2	1/2	1/2	NO	ADULT	-	DOUBLE BOWL, STAINLESS STEEL, COUNTER MOUNTED SINK W/ MANUAL, SINGLE CONTROL MIXING FAUCET W/ SWING SPOUT, SUPPLIES, CONTINUOUS WASTE, DRAIN FITTINGS AND TRAP WITH DISHWASHER TAILPIECE.	1, 2
SAFETY STATION	2	-	1 1/2	1 1/2	YES	-	-	EMERGENCY SHOWER AND EYEWASH COMBINATION UNIT.	1, 2, 6
FD "A"	4	2	-	-	-	-	-	MEDIUM DUTY, CAST-IRON FLOOR DRAIN WITH 7" DIAMETER NICKEL BRONZE STRAINER, DEEP-SEAL P-TRAP AND TRAP SEAL PRIMER CONNECTION.	1, 2
WASHER WALL BOX	2	2	1/2	1/2	-	-	-	RECESSED WASHER WALL BOX WITH QUARTER TURN SUPPLY STOPS AND DRAIN CONNECTION.	
WATER OUTLET BOX	-	-	1/2	-	-	-	-	RECESSED WATER OUTLET BOX WITH QUARTER TURN SHUT-OFF VALVE.	

NOTES:

1. PROVIDE TERMINATION STYLE AND SIZE FOR FIXTURE CONNECTIONS AS INDICATED BY FIXTURE MANUFACTURER.
2. SIZES INDICATED ARE MINIMUM. LARGER SIZES SPECIFICALLY INDICATED ON DRAWINGS SUPERCEDE MINIMUM SIZES INDICATED IN THIS SCHEDULE.
3. REFER TO TOILET ROOM PLANS ON ARCHITECTURE DRAWINGS FOR FIXTURE CENTERLINE DIMENSIONS.
4. REFER TO "MOUNTING HEIGHTS - GENERAL ADULT USE, 7TH - 12TH GRADE" DETAIL ON ARCH DWGS FOR ADULT BARRIER FREE FIXTURE MOUNTING HEIGHTS.
5. REFER TO SECTION 12 32 16 FOR ADDITIONAL INFORMATION ON SCIENCE CLASSROOM EPOXY RESIN SINKS.
6. REFER TO DETAIL 4/ DP402 AND SPECIFICATION SECTION 22 45 00 - EMERGENCY FIXTURES FOR ADDITIONAL INFORMATION.

Waste Water Pump Schedule

DWG LABEL	MODEL NO.	LOCATION	CAPACITY	TOTAL DYNAMIC HEAD	MAX CONT OPERATING TEMP	DISCHARGE	PUMP CAPACITY	HORSE POWER	VOLTAGE	PHASE	HERTZ	NOTES
			GPM	FEET	°F	NPS	GALLONS					
P-D-1	405	FAMILY AND CONSUMER SCIENCE 339	20	20	180	2	5.5	1/2	120	1	60	1, 2

NOTES:

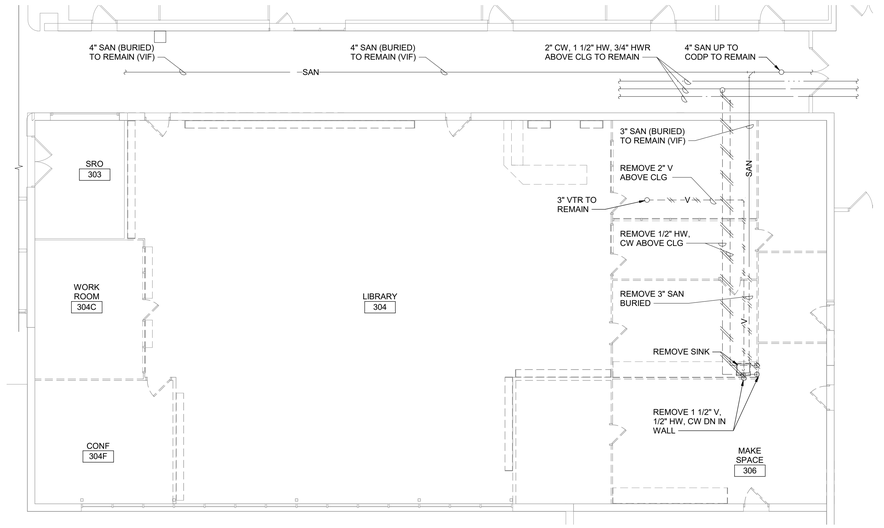
1. DESIGN MAKE: LIBERTY PUMPS OR APPROVED EQUAL.
2. DUPLEX PUMPS WITH LEVEL CONTROLS.

Thermostatic Mixing Valve Schedule

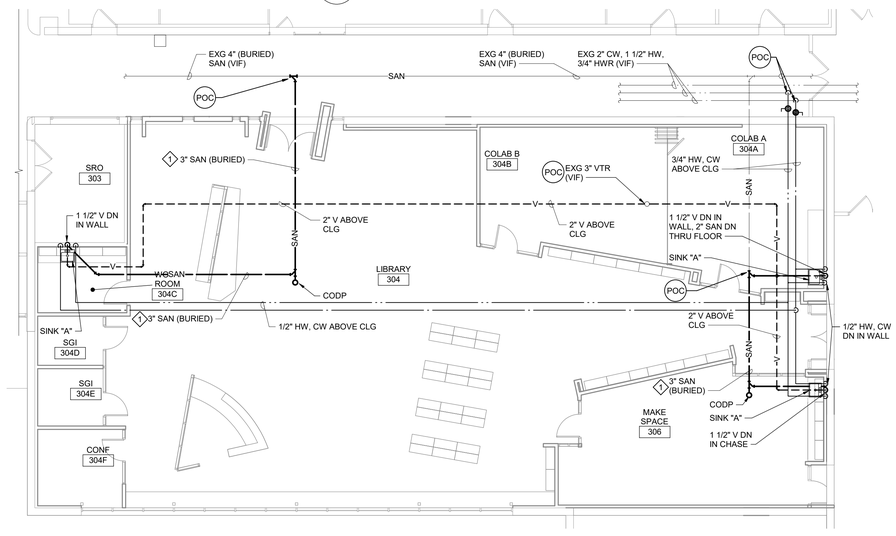
DWG LABEL	TW SETTING °F	DESIGN TW FLOW RATE GPM	PRESSURE DROP AT DESIGN FLOW RATE PSI	MIN TW FLOW RATE TO ASSE STANDARD GPM	TW OUTLET NPS	CW / HW INLET NPS	NOTES
EM-TMV "A"	85	23	6	2	1 1/4	1 1/4	1

NOTES:

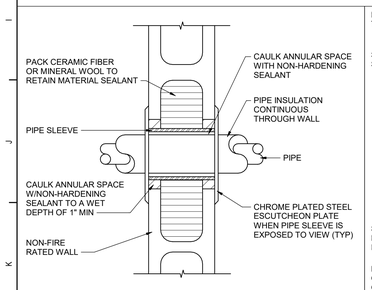
1. ASSE 1071 EMERGENCY FIXTURE MIXING VALVE. REFER TO SECTION 22 45 00 - EMERGENCY FIXTURES.



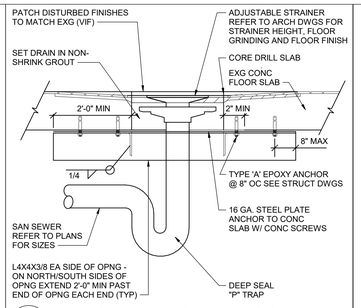
1 Library 304 Demolition Plan
1/8" = 1'-0"



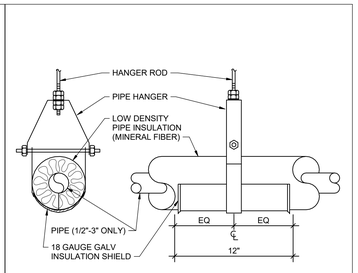
2 Library 304 Plan
1/8" = 1'-0"



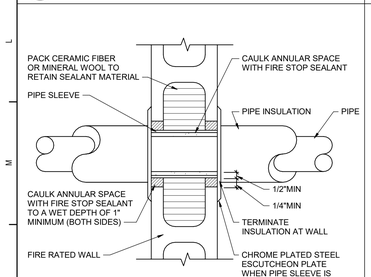
9 CMU Wall Pipe Sleeve Detail
NTS



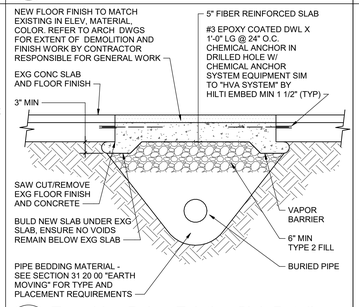
7 Floor Drain in Existing Slab Detail
NTS



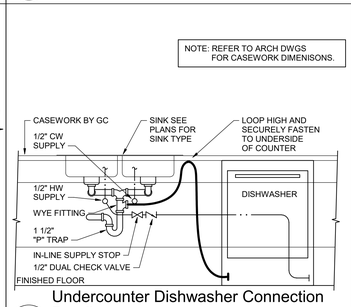
5 Insulation Shield Detail
NTS



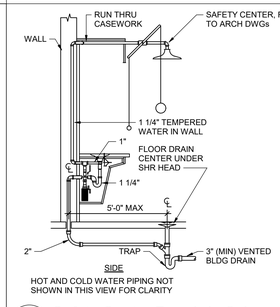
10 Fire Rated CMU Wall Pipe Sleeve Detail
NTS



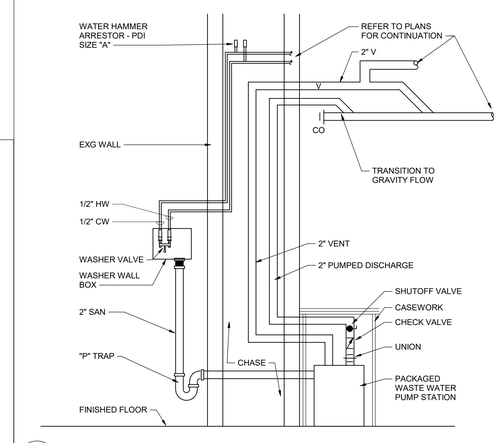
8 Trenching Below Existing Slab Detail
NTS



6 Undercounter Dishwasher Connection Detail
NTS



4 Safety Center Rough-in Schematic
NTS



3 Washing Machine Lift Station
NTS

Plan Notes

A. REFER TO DRAWING NO. DP050 FOR GENERAL NOTES.

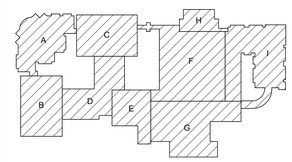
B. REMOVE PLUMBING FIXTURES INDICATED, INCLUDING ASSOCIATED PIPING, FASTENERS, SUPPORTS, ETC., BACK TO POINTS OF CONCEALMENT WITHIN OR BEHIND REMAINING WALLS, BELOW FLOORS OR ABOVE CEILINGS.

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.

D. COORDINATE WORK WITH ABATEMENT DRAWINGS AND SPECIFICATIONS.

Plumbing Notes

1 REFER TO DETAIL 8/ DP402 FOR ADDITIONAL INFORMATION.



Key Plan
N.T.S.

N

S.E.D. Control No. 66-24-01-06-0-012-025

Rev. No.:	Date:	Description:

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BID SET

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

TETRA TECH
ARCHITECTS & ENGINEERS

Lakeland Central School District
Shrub Oak, New York

Reconstruction to:
Lakeland Copper Beech Middle School

Enlarged Library Plans, Details and Schedule

Drawn By:	Date:	Drawing Number:
DCG/ sef	10/13/2023	DP402
Project No.: 276721-23001		