# Reconstruction to: Wallkill Senior High School John G. Borden Middle School Ostrander Elementary School Plattekill Elementary School Leptondale Elementary School Wallkill Central School District Wallkill, New York

## **Drawing List**

GENERAL G002 Title Sheet G100 Symbols and Abbreviations

### **Plattekill Elementary School**

CODE COMPLIANCE DG350 Code Compliance Review DG351 First Floor - Scope of Work and Rescue Window Locations

HAZARDOUS MATERIALS DHAZ1 Interior Abatement Plan 02 DHAZ1 First Floor Abatement Plan 03

DHAZ1 Roof Abatement Plan 04

ARCHITECTURAL

DA051 Basement and First Floor Key Plans DA052 Roof Plan DA100 Basement Floor Demolition Plan DA101 First Floor Demolition Plan - Area A DA102 First Floor Demolition Plan - Area B DA103 First Floor Demolition Plan - Area C DA130 Basement Floor Plan DA131 First Floor Plan - Area A DA132 First Floor Plan - Area B DA133 First Floor Plan - Area C DA161 First Floor Reflected Ceiling Plan - Partial Areas A and B DA400 Enlarged Plans / Interior Elevations

DA600 Door Schedule, Door and Window Types, and Details DA900 Interior Elevations, Details and Signage

STRUCTURAL DS130 Partial Roof Framing Plan Areas A & B

DS500 Typical and Framing Details

MECHANICAL DM051 First Floor Key Plan

| DM102  | Partial Firs      |
|--------|-------------------|
| DM103  | Partial Roc       |
| DM500  | Details           |
| DM600  | Schedules         |
| DM700  | <b>Control Se</b> |
|        |                   |
| ELECTF | RICAL             |
| DE050  | First Floor       |
| DE101  | Partial Firs      |
| DE102  | Roof Demo         |
| DE130  | Partial Firs      |
| DE160  | Partial Bas       |
|        | Communic          |
| DE161  | Roof Powe         |
| DE500  | Details           |
| DE501  | Details           |
| DE600  | Schedules         |

PLUMBING



## Plattekill Elementary School

DM052 Roof Key Plan and Partial Area A Plan

- DM101 Partial First Floor Plans Areas A and B
  - First Floor Plans Area B
  - Roof Plans Area B

  - ol Sequences
  - Floor Key Plan
  - First Floor Demolition Plans Areas A and B Demolition Plan
  - First Floor Lighting Plan Areas A and B
  - Basement and First Floor Power,
  - nunications and Fire Alarm Plan
  - Power, Communications and Fire Alarm Plan

DP130 Enlarged Basement Plan, Schedule and Details

## Leptondale Elementary School

CODE COMPLIANCE Code Compliance Review EG350 First Floor - Scope of Work and Rescue W Second Floor - Rescue Window Locations EG352 HAZARDOUS MATERIALS EHAZ10 Partial Roof Abatement Plan - Area C

ARCHITECTURAL

EA051 First Floor Key Plan EA052 Second Floor Key Plan EA053 Roof Plan First Floor Demolition Plan - Area A EA101 First Floor Demolition Plan - Area B EA102 Second Floor Demolition Plan - Partial Are EA104 EA131 First Floor Plan - Area A EA132 First Floor Plan - Area B Second Floor Plan - Partial Area B and Ar EA134 First Floor Reflected Ceiling Plan EA161 Second Floor Reflected Ceiling Plan EA162 Enlarged Plans / Interior Elevations EA400 Door Schedule, Door and Window Types, and Details EA600 EA900 Interior Elevation, Details and Signage

STRUCTURAL

| ES130 | Partial Roof Framing Plan - Areas E<br>Schedules |
|-------|--|
| ES500 | Typical Details                                  |

MECHANICAL

| EM051 | First and Second Floor Key Plans       |
|-------|--|
| EM101 | Partial First Floor Plans - Areas A ar |
| EM102 | Partial Second Floor Plans - Area C    |
| EM103 | Partial Roof Demolition Plans - Area   |

# 62-18-01-06-0-007-018 62-18-01-06-0-002-014 62-18-01-06-0-003-014 62-18-01-06-0-005-015 62-18-01-06-0-001-019



## Leptondale Elementary School

|                  | EM104<br>EM500 | Partial Roof Plans - Areas A, B and C<br>Details                                 |
|------------------|----------------|--|
| /indow Locations | EM600          | Schedules and Controls   |
| ;<br>;           | EM700          | Controls   |
|                  | ELECTR         | ICAL   |
|                  | EE051          | Key Plans  |
|                  | EE101          | Partial First Floor and Demolition Plans Areas B & C                             |
|                  | EE102          | Partial Second Floor Demolition Plans - Areas B and C                            |
|                  | EE103          | Roof Demolition Plan   |
|                  | EE130          | Partial First Floor Lighting Plan Areas A and B                                  |
|                  | EE131          | Partial Second Floor Lighting Plan - Areas B and C                               |
|                  | EE160          | Partial First Floor Power, Communications and Fire Flarm<br>Plans Areas A and B  |
| ea B and Area C  | EE161          | Partial Second Floor Power, Communications and Fire<br>Alarm Plan - Area B and C |
|                  | EE163          | Roof Power Plan  |
|                  | EE500          | Details and Diagrams   |
| rea C            | EE600          | Schedules  |
|                  |                | Common   |
|                  |                | COMMON   |

B and C, Notes and

nd B as A, B and C

| ARCHITE | CTURAL       |
|---------|--------------|
| ZA750   | Roof Details |

| Drawn By:<br>Author | Date:<br>11/4/2022 |
|---------------------|--------------------|
| Project No.:        |                    |
| 17597-22            | 001                |

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





| ſ | 1  | 2  |  | 3  | 3  |  | 4   | 5   |  | 6   |
|---|--|--|--|--|--|--|---|---|--|---|
|   | Site   | Archit   | Architectural Symbols  |  |  | Structural Symbols   |   |   |  |   |
| A | + 83.36 SPOT ELE<br>+ 99.50 TC TOP OF C<br>99.00 BC BOTTOM<br>+ 83.36 EXISTING<br>- 136 - CONTOUR  | EVATION<br>URB ELEVATION<br>DF CURB ELEVATION<br>SPOT ELEVATION                                      |  |  | EXISTI   | NG TO REMA   | NN  |   | <b>⊗</b>   | <ul> <li>INDICATES AREA IS</li> <li>EXISTING</li> <li>INDICATES SLAB IS</li> <li>DEPRESSED OR</li> <li>DEPRESSED OR</li> </ul>  |
| В |  |  |  |  |  |  | STING   | [-4'-0] [-3'-0]   |  | TOP OF FTG ELEVATION<br>FROM DATUM<br>— CONTINUOUS FTG  |
| _ | TREE OR    TREE OR    TREE OR  | SHRUB TO REMAIN  |  |  | MATEI  | VORK<br>RIAL INDICA  | TION VARIES)  |   | 32   | <ul> <li>FOUNDATION WALL</li> <li>BM POCKET<br/>ELEVATION FROM DATUM</li> <li>STEPPED FOOTING</li> </ul>  |
| С | HEAVY-D<br>REMOVE  | JTY ASPHALT PAVING<br>AND REPLACE ASPHALT P/<br>TE PAVING  | AVING  |  | CMU A  | ND BRICK C/<br>/ALL<br>JM BOARD P/   | AVITY WALL  | P1 (-8) -   |  | <ul> <li>— INDICATES PIER TYPE</li> <li>— TOP OF PIER ELEVATION<br/>FROM DATUM</li> </ul>   |
| _ | CONCRET<br>CURBING   | TO REMAIN  |  |  | DOOR NUMBER  | TAL STUD WA  | ALL   | F4 [-3'-0] -  |  | <ul> <li>TOP OF FOOTING<br/>ELEVATION FROM DATUM</li> <li>INDICATES FOOTING TYPE<br/>REFER TO FOOTING<br/>SCHEDULE</li> </ul>   |
| D | CURBING CURBING CURBING FENCING X X X FENCING SILT FENCING   | TO BE REMOVED<br>TO REMAIN<br>TO BE REMOVED<br>CING  |  | A  | WINDOW TYPE<br>RELOCATED EQUI<br>FURNITURE OR CA   | PMENT<br>ASEWORK N   | UMBER   | RI  | D  |   |
| Е | HAY BALE   | RY CONSTRUCTION FENC   | ING  | (P3.8)   | PARTITION TYPE   | 30L  |   |   |  | <ul> <li>INDICATES FRAMED</li> <li>OPNG IS FOR:</li> <li>RD = ROOF DRAIN</li> <li>ME = MECH EQUIP</li> <li>SL = SKYLIGHT</li> <li>SH = SMOKE HATCH</li> <li>AH = ACCESS HATCH</li> </ul>  |
| _ | <ul> <li>↓ UTILITY P</li> <li>↓ UTILITY P</li> <li>↓ UTILITY P</li> <li>↓ UTILITY P</li> <li>↓ NEW OR</li> </ul>   | OLE<br>OLE TO REMAIN<br>OLE TO BE REMOVED<br>RELOCATED FIRE HYDRAN                                   | Т  | ROOF S   | FINISH CHANGE  | D INSULATIC  | DN  |   |  | ELEVATION FROM     DRAWING DATUM     BEAM SIZE     NUMBER OF SHEAR     STUDE OVER FUEL  |
| ш | FIRE HYD     Image: Control of the store of the s | RANT TO REMAIN<br>ET<br>ASIN<br>ANITARY MANHOLE  |  |  | EXISTING ROOF D<br>ROOF DRAIN INSE<br>FACTORY-TAPERE<br>EJ/CONTROL JOIN<br>DIRECTION OF DO   | RAIN WITH F<br>RT IN NEW<br>ED SUMP<br>IT  | RETROFIT  | (-6) W8X15 [14]<br>21K 0.7  | (GIR) <del>-</del><br>21K  | STUDS OVER FULL<br>LENGTH OF BEAM<br>INDICATES TOP OF BEAM<br>AT ADJ GIRDER ELEV<br>END REACTION- KIPS  |
| _ | DROP INL<br>MANHOLE<br>TO REMA<br>DRYWELI  | ET TO REMAIN<br>E/CATCH BASIN/DRYWELL<br>N<br>. W/ GRATE   |  | OR CONTRACT  | DEGREE OF SLOP<br>INSULATION (MINI<br>DIRECTION OF DO<br>TAPERED INSULA<br>(MINIMUM 1/4"/FT, | E OF TAPER<br>MUM 1/8"/FT,<br>WNWARD SI<br>TION CRICKE<br>TYP UNO)                                   | ed<br>, Typ UNO)<br>Lope of<br>Et   |   |  | DEFLECTION (INCHES)     APPROX W/ WET CONC     LINTEL DESIGNATION     SEE SCHEDULE     INDICATES LINTEL     CONNECTION TO     COLUMN  |
| ŋ | DRYWELI<br>DRYWELI<br>ST STORM LI  | . W/ SOLID COVER TO GRA<br>. W/ COVER BURIED<br>NE WITH HEADWALL                                     | DE   | SLOPE<br>STRU<br>+X"<br>+X" FLAT   | DIRECTION OF DO<br>ROLLED OR SLOP<br>TOTAL THICKNESS<br>TOTAL THICKNESS<br>INSULATION        | WNWARD SI<br>ED STRUCTU<br>S OF INSULA<br>S OF AREA C  | LOPE OF<br>JRE<br>TION<br>DF FLAT   |   |  | <ul> <li>INDICATES MEMBER<br/>IS EXISTING</li> <li>INDICATES BEAM<br/>SPLICE</li> <li>INDICATES MOMENT<br/>CONNECTION</li> </ul>  |
| _ | ST STORM LI  | NE WITH ENDWALL<br>NE WITH END SECTION<br>PE<br>PE TO REMAIN   |  | RS-X   | DESIGNATES ROC<br>WALKWAY PAD<br>SKYLIGHT (REINS   | DF SYSTEM T  | YPE<br>REPLACED)  |   |  | OVER COLUMN<br>— INDICATES SHEAR WALL<br>CONNECTION TO BEAM<br>— INDICATES BM TO HAVE<br>TOP OF WALL CLIPS  |
| Ξ | ST     STORM PI     UD     UNDERDF     UD     UNDERDF     UD     UNDERDF     SAN     SANITAR   | PE TO BE REMOVED/ABAN<br>RAIN<br>RAIN TO REMAIN<br>AIN TO BE REMOVED/ABAN<br>/ LINE                  | DONED  |  |  | NOOF HATCH   | Ч<br>′Р   |   |  |   |
| _ | SANSANITAR`<br>//SAN_//SANITAR`<br>GGAS LINE<br>GGAS LINE<br>//G_/GAS LINE   | ' LINE TO REMAIN<br>' LINE TO BE REMOVED/AB,<br>TO REMAIN<br>TO BE REMOVED/ABANDO)                   | ANDONED  |  | ROOFTOP EQUIPM<br>(SHAPE AND SIZE<br>CTED CEILING<br>- BOTTOM OF CEILII                      | MENT ON CUI<br>VARY)<br>G SYMB(<br>NG AFF  | rb, typ<br>DLS  |   | ×  | MASONRY LOAD<br>BEARING WALL<br>  |
| _ | W WATER L<br>W WATER L<br>W WATER L<br>CO STORM'S  | NE<br>NE TO REMAIN<br>NE TO BE REMOVED/ABAN<br>ANITARY CLEANOUT                                      | DONED  |  | CEILING HUNG UN<br>CEILING HUNG FA<br>CEILING RETURN/  | L<br>NT VENTILAT<br>N COIL UNIT<br>ÆXHAUST G   | FOR OR<br>RILLE   |   | >>><br> <br>   | SEE SCHEDULE<br>CFMF BEARING WALL<br>FIREWALL   |
| J | SIGN POS     UNIVERS     REMOVAL   | T<br>AL HANDICAP SYMBOL  |  |  | CEILING SUPPLY I<br>EXIT LIGHT<br>2 X 4 FIXTURE IN   | DIFFUSER/G   | RILLE   | (SW1)   |  | WALL TYPE   |
|   | NOTE: REFER TO FINISH PL   | ANS FOR ROOM FINISH  | BO BY  | OTHERS   | 2 X 2 PATTERN  | CONST  | CONSTRUCTION  |   | EB   | EXPANSION BOLT  |
| × | AAC ASBESTOS ABATEMI<br>AAD AUTOMATIC AIR DAM<br>AB ANCHOR BOLT, AIR E<br>AC AIR CONDITIONING, A<br>CURRENT<br>ACCMP ASPHALT COATED C<br>ACM ASBESTOS CONTAIN<br>ACT ACOUSTICAL CEILIN<br>ACU AIR CONDITIONING U<br>AD AREA DRAIN<br>ADA AMERICAN DISABILIT  | ENT CONTRACTOR<br>IPER<br>BARRIER<br>ALTERNATING<br>ORR METAL PIPE<br>ING MATERIAL<br>3 TILE<br>INIT | BOF BO<br>BOF BO<br>BOS BO<br>BOT BO<br>BPL BE<br>BR BO<br>BRDG BR<br>BRG BE<br>BRK BR<br>BRSH BR<br>BRZ BR<br>BS BO<br>BSMT BA<br>BSPL BA<br>BT               | A LOW OF DOUT<br>DTTOM OF FOOTING<br>DTTOM OF STEEL<br>DTTOM REGISTER<br>RIDGING<br>EARING<br>RICK<br>RICKSHELF<br>RONZE<br>DTH SIDES, BOTTOM<br>ASEMENT<br>ACKSPLASH  | OF STAIR   | CONTR<br>COORD<br>CORR<br>COVP<br>CPVC<br>CR<br>CRS<br>CSK<br>CSMT<br>CT<br>CTD<br>CTOP<br>CTR<br>CT | CONTRACT (OR)<br>COORDINATE<br>CORRUGATED, CC<br>CLEAN OUT WALL<br>CHLORINATED PO<br>CEILING REGISTEF<br>COURSE (S)<br>COUNTERSINK<br>CASEMENT<br>COMPUTER TERMI<br>COATED<br>COUNTER TOP<br>CENTER<br>COUNTER TOP<br>CENTER                            | ORRIDOR<br>PLATE<br>LY VINYL CHLORIDE<br>R<br>INAL, CERAMIC BASE TILE | ECF<br>EIFS<br>EJ<br>ELEC<br>ELEM<br>ELEV<br>EM<br>ENC<br>EOD<br>EOS<br>EQ                       | ENHANCED CONTRACTOR<br>ENHANCED CONCRETE FLOORING<br>EXTERIOR INSULATION SYSTEM<br>EACH FACE, EXHAUST FAN<br>EXPANSION JOINT<br>ELECTRIC (AL)<br>ELEMENT<br>ELEVATION, ELEVATOR<br>EMERGENCY<br>ELECTRICAL METALLIC TUBING<br>ENCLOSURE<br>EDGE OF DECK<br>EDGE OF SLAB<br>EQUAL, EQUIVALENT<br>EQUIDMENT CONTRACTOR            |
| _ | ADDL ADDITIONAL<br>ADDN ADDITIONAL<br>ADDN ADDITION<br>ADH ADHESIVE<br>ADJ ADJACENT<br>ADR ACCESS DOOR<br>AESS ARCH EXPOSED STR<br>AFF ABOVE FINISH FLOO<br>AH ACCESS HATCH<br>AHU AIR HANDLING UNIT<br>AIB AIR INFILTRATION BA  | UCTURAL STEEL<br>R<br>NRRIER   | BTU BR<br>BTUH BR<br>BUR BU<br>BW BO<br>BWC BA<br>C CC<br>CA CC<br>CA CC<br>CAB CA   | ATTISH THERMAL UNIT<br>RITISH THERMAL UNIT<br>JILT-UP ROOFING<br>DTTOM OF WALL<br>ACK WATER CHECK V<br>DNDUIT, CONVECTOR<br>DMMON, CARPET<br>DMPRESSED AIR<br>ABINET<br>ABLE TEL EVISION   | TS<br>TS PER HOUR<br>(ALVE<br>R, CONDENSOR,  | CUH<br>CV<br>CWR<br>CWR<br>CWS<br>CWT<br>D<br>DB<br>DC<br>DDC  | CABINET UNIT HEA<br>CONVECTOR, CUR<br>COLD WATER<br>CHILLED WATER S<br>CHILLED WATER S<br>CERAMIC WALL TH<br>DIESEL FUEL, DEP<br>DRY BULB<br>DIRECT CURRENT<br>DIRECT DIGITAL C   | ATER<br>RB VALVE<br>RETURN<br>SUPPLY<br>LE<br>PTH<br>ONTROI           | EQUIP<br>ES<br>ESF<br>ESF<br>EWC<br>EWC<br>EWT<br>EXH<br>EXG<br>EXP<br>EXT                       | EQUIPMENT<br>EXPOSED SURFACE, EXPOSED ST<br>ELASTIC SHEET FLASHING<br>ELASTIC SHEET MEMBRANE<br>EACH WAY<br>ELECTRIC WATER COOLER<br>ENTERING WATER TEMPERATURE<br>EXHAUST<br>EXISTING<br>EXPANSION<br>EXTERIOR FXTERNAL  |
| Μ | ALTB ACOUSTICALLY LINE<br>ALTB ACOUSTICALLY LINE<br>ALTN ALTERATION ALUM A<br>AMP AMPERE<br>ANOD ANODIZED<br>ANT ACID NEUTRALIZATIO<br>AP ACCESS PANEL, APF<br>APPROXIMATE(LY)<br>APC ARCHITECTURAL PR<br>ARCH ARCHITECT (URAL)<br>A/S AIR SEPARATOR<br>ASB ASBESTOS<br>ASPH ASPHALT<br>ATV ATMOSPHERIC VENT<br>AUD AUDITORIUM<br>AUTO AUTOMATIC<br>AVE AVERAGE  | D TRANSFER BOX<br>LUMINUM<br>ON TANK<br>PROX,<br>ECAST CONCRETE                                      | CB CA<br>CB CA<br>CH<br>CCTV CL<br>CD CE<br>CEM CE<br>CER CE<br>CFM CU<br>CFMF CO<br>CFT CE<br>CG CE<br>CHAN CH<br>CHUV CE<br>CI<br>CIP CA<br>CIP CA<br>CIP CA | ATCH BASIN, CIRCUIT<br>HALKBOARD<br>LOSED CIRCUIT TELE<br>EILING DIFFUSER, CO<br>EMENT<br>ERAMIC CF CUBIC FE<br>JBIC FEET PER MINU<br>DLD FORMED METAL<br>ERAMIC FLOOR TILE<br>HANNEL<br>EILING GRILLE<br>HANNEL<br>EILING HUNG UNIT VE<br>AST IN PLACE<br>RCUMFERENCE<br>DNTROL JOINT | BREAKER,<br>VISION<br>NDENSATE DRAIN<br>ET, CEILING FAN<br>TE<br>FRAMING                     | DE<br>DEG<br>DEMO<br>DEP<br>DET<br>DF<br>DH<br>DHU<br>DI<br>DIA<br>DIA<br>DIA<br>DISP<br>DIST<br>DIV | DENTRE CONTRECT<br>DECONIZED WATE<br>DEGREES<br>DEMOLISH<br>DEPRESS (ED) (IOI<br>DETAIL (ED)<br>DRINKING FOUNTA<br>DOUBLE HUNG<br>DEHUMIDIFICATIO<br>DROP INLET, DUC<br>WATER<br>DIAMETER<br>DIAGONAL<br>DISPENSER<br>DISPENSER<br>DISTANCE<br>DIVISION | N)<br>AIN<br>N UNIT<br>TILE IRON, DISTILLED                           | F FA<br>FAI<br>FCU<br>FDC<br>FEC<br>FFEL<br>FFEL<br>FFG<br>FHC<br>FIN                            | FAHRENHEIT<br>FIRE ALARM<br>FRESH AIR INTAKE<br>FAN COOLING UNIT<br>FLOOR DRAIN, FIRE DAMPER<br>FIRE DEPARTMENT CONNECTION<br>FIRE EXTINGUISHER<br>FIRE EXTINGUISHER CABINET<br>FINISH FLOOR, FACTORY FINISH<br>FINISH FLOOR ELEVATION<br>FINISH FLOOR LINE<br>FLOOR GRILLE<br>FIRE HYDRANT<br>FIRE HOSE CABINET<br>FINISH (ED) |
| N | B BOILER, BRICK, BOT<br>BB BASKETBALL<br>BBD BOILER BLOWDOWN<br>BC BOTTOM OF CURB<br>BCU BLOWER COIL UNIT<br>BCX BOTTOM CHORD EX<br>BD BOARD<br>BDD BACKDRAFT DAMPE<br>BF BACK FLOW PREVEN<br>BG BOTTOM GRILLE<br>BIT BITUMINOUS<br>BLDG BUILDING<br>BLK BLOCK   | FOM<br>TENSION<br>R<br>ITER  | CL CE<br>CLG CE<br>CLKG CA<br>CLL CC<br>CLR CL<br>CLR CL<br>CLR CL<br>CMP CC<br>CMT CE<br>CMU CO<br>CO CL<br>CODP CL<br>COL CC<br>COMB CC<br>COMB CC           | ENTER LINE<br>EILING<br>AULKING<br>DNTRACT LIMIT LINE<br>EAR (ING) (ENCE)<br>ASSROOM<br>DRRUGATED METAL F<br>ERAMIC MOSAIC TILE<br>DNCRETE MASONRY<br>EAN OUT<br>EAN OUT<br>EAN OUT DECK PLAT<br>DLUMN<br>DMBINATION<br>DMPRESS (ED) (ION) (   | PANEL<br>UNIT<br>TE<br>(IBLE), COMPOSITE   | DL<br>DN<br>DP<br>DPR<br>DR<br>DWG<br>DS<br>DT<br>DTA<br>DTL<br>DW<br>DWL<br>DWR                     | DEAD LOAD<br>DOWN<br>DITTO<br>DAMPPROOF (ING)<br>DAMPER<br>DOOR, DEEP RIB<br>DRAWING<br>DOWNSPOUT, DRA<br>DRAIN TILE<br>DOVETAIL ANCHO<br>DETAIL<br>DUMBWAITER, DIS<br>DOWEL<br>DRAWER  | )<br>AINAGE STRUCTURE<br>R<br>SHWASHER                                | FIXT<br>FL<br>FLD<br>FLEX<br>FLG<br>FLR<br>FLUOR<br>FM<br>FMC<br>FND<br>FOB<br>FOG<br>FOS<br>ECT | FIXTURE<br>FLUSH<br>FLOOR DUCT<br>FLEXIBLE<br>FLASHING<br>FLOOR (ING)<br>FLUORESCENT<br>FLOOR MOUNTED<br>FLEXIBLE METAL CONDUIT<br>FOUNDATION<br>FREIGHT ON BOARD, FLAT ON BOT<br>FUEL OIL GAUGE<br>FUEL OIL RETURN<br>FUEL OIL SUPPLY<br>FLAT ON TOP   |
|   | BM BEAM  |  | COND CC<br>CONN CC   |  |  | E<br>EA<br>EAT   | EAST<br>EXHAUST AIR, EAC<br>ENTERING AIR TEI  |   | FP<br>FPM<br>FR  | FIREPROOF (ING)<br>FEET PER MINUTE<br>FRAME, FLOOR REGISTER   |

| 6   |                            | 7 8  |                 | 9                                     | 10   |   | 11 12   |
|---|----------------------------|--|-----------------|---------------------------------------|--|---|---|
| mbols   |                            |  |                 |                                       | Mechani  | cal Symbols   | S   |
| CATES AREA IS                                 | TAG NO.                    | EQUIPMENT TAG (NON-MOTORIZED)  |                 | ATV                                   | ATMOSPHERIC VENT   | ——————————————————————————————————————                | BASKET STRAINER   |
| STING   | VALUE                      | CFM, GPM, CAPACITY   |                 | BBD                                   |  |   | DUPLEX BASKET STRAINER  |
| CATES SLAB IS<br>RESSED OR                    | TAG NO.                    | EQUIPMENT TAG (MOTORIZED)  |                 | CWR                                   | CHILLED WATER RETURN                                     |   | AQUASTAT  |
| ESSED   | VALUE                      |  |                 | CGS                                   | CHILLED GLYCOL SUPPLY                                    | <b>D</b>  | PITCH PIPING (DOWN)   |
| OF FTG ELEVATION<br>M DATUM                   | TAG NO.                    | 7  |                 | — CGR —                               | CHILLED GLYCOL RETURN                                    |   | AUTOMATIC FLOW CONTROL VALVE                                  |
| TINUOUS FTG                                   | NECK SZ.                   | . REGISTER, GRILLE, DIFFUSER   |                 | — c ———                               | CONDENSER WATER SUPPLY                                   |   | BACKFLOW PREVENTOR  |
|   |                            |  |                 | CR                                    | CONDENSER WATER RETURN                                   | B   |   |
| DATION WALL                                   | FTR-TYPE                   | FIN TUBE RADIATION   |                 | — GS —                                | GLYCOL SUPPLY  |   | EXISTING BALL VALVE   |
| OCKET   | ELEM. LENGT                | H ENCLOSURE NOTED AS:<br>W/W: WALL TO WALL,<br>H W/U: WALL TO UNIT   |                 | — HGS———                              | HOT GLYCOL SUPPLY  |   | BUTTERFLY VALVE   |
| PED FOOTING                                   | GPM                        | W/D: WALL TO DOOR, ETC   |                 | HGR                                   | HOT GLYCOL RETURN  |   |   |
|   |                            |  |                 |                                       |  |   | 2-WAY CONTROL MODULATING VALVE                                |
| ATES PIER TYPE                                |                            | SUPPLY DUCT - POSITIVE PRESSURE                                      |                 |                                       | HOT WATER SUPPLY   |   | 3-WAY CONTROL,<br>MODULATING VALVE<br>(INSTALL STEM VERTICAL) |
| F PIER ELEVATION<br>DATUM                     |                            | RETURN DUCT - NEGATIVE PRESSURE                                      |                 | HWR                                   | HOT WATER RETURN   |   | 3-WAY CONTROL,  |
|   |                            | EXHAUST DUCT - NEGATIVE PRESSURE                                     |                 | HCS                                   |  | T<br>IS   | VALVE (SELF-CONTAINED)  |
|   |                            |  |                 |                                       | LOW PRESSURE STEAM                                       |   | SOLENOID (ELECTRIC) ON/OFF                                    |
| F FOOTING                                     |                            | SIDE IN VIEW   |                 |                                       | LOW PRESSURE CONDENSATE                                  |   | MOTORIZED MODULATING VALVE                                    |
| ATES FOOTING TYPE<br>R TO FOOTING             |                            |  |                 | LPWC                                  | LOW PRESSURE STEAM WET<br>(FLOODED) CONDENSATE           | <u></u>   | FUSIBLE LINK VALVE  |
| DULE  |                            |  |                 | — MU———                               | MECHANICAL EQUIPMENT MAKE-<br>UP COLD WATER(NON-POTABLE) |   | GAS PRESSURE REGULATOR VALVE                                  |
|   |                            | RECTANGULAR ELBOW<br>W/TURNING VANES                                 |                 | RS                                    | REFRIGERANT SUCTION                                      | K   | TRIPLE DUTY VALVE   |
|   |                            |  |                 | — RL ———                              | REFRIGERANT LIQUID                                       |   |   |
| ATION   |                            | RECTANGULAR ELBOW  |                 | — HG —                                | REFRIGERANT HOT GAS                                      |   | OS&Y GATE VALVE   |
| CATES FRAMED                                  |                            |  |                 |                                       | PUMP DISCHARGE   |   | PLUG VALVE  |
| G IS FOR:<br>ROOF DRAIN                       |                            | MITERED ELBOW  |                 |                                       | PIPING, EQUIPMENT  | tó1   | PRESSURE REDUCING VALVE                                       |
| SKYLIGHT<br>SMOKE HATCH                       |                            | RADIUS ELBOW W/<br>TURNING/SPLITTER VANES                            |                 | — EXG———                              | EXISTING HVAC PIPE                                       | <u>k</u>  | PRESSURE RELIEF VALVE   |
| ACCESS HATCH                                  |                            |  |                 | <br>                                  | TOP PIPE CONNECTION                                      |   | STEAM TRAP  |
| VATION FROM                                   |                            | RADIUS ELBOW   |                 | C                                     | PIPE ELBOW DOWN  |   | FLOAT AND THERMOSTATIC  |
| WING DATUM                                    |                            |  |                 | <u> </u>                              | PIPE ELBOW UP  | <u>B</u>  | BUCKET STEAM TRAP   |
| IBER OF SHEAR                                 |                            | STANDARD BRANCH DUCT<br>W/VOLUME DAMPER                              |                 | Ę                                     | PIPE DOWN WITH CLEANOUT AT BA                            | ASE   | AIR SEPARATOR   |
| DS OVER FULL<br>GTH OF BEAM                   |                            |  |                 | Ę                                     | PIPE DOWN WITH SHUTOFF VALVE                             | ©   | CIRCULATING PUMP  |
| CATES TOP OF BEAM<br>ADJ GIRDER ELEV          |                            | ACOUSTICALLY LINED<br>DUCTWORK                                       |                 |                                       |  | <b></b>   | WATER HAMMER ARRESTOR   |
| REACTION- KIPS                                |                            |  | _               |                                       | FLANGE CONNECTION  | 1   | CLEANOUT PLUG   |
| LECTION (INCHES)                              | +5                         |  | _               |                                       | PIPING REDUCER (CONCENTRIC)                              |   | CLEANOUT DECK PLATE   |
|   |                            | - FLEXIBLE DUCT  | —               |                                       | PIPING REDUCER (ECCENTRIC)                               |   |   |
| CATES LINTEL                                  |                            |  | _               | <u> </u>                              |  | F   |   |
| INECTION TO<br>UMN                            |                            | VOLUME DAMPER  | _               |                                       | EXPANSION COMPENSATOR                                    | BS  | BURNER SHUT OFF   |
| CATES MEMBER<br>XISTING                       | FD                         | _  |                 |                                       | EXPANSION JOINT  |   |   |
| CATES BEAM                                    |                            | FIRE DAMPER  | _               |                                       | FLEX CONNECTOR   | H   | HUMIDISTAT  |
| CATES MOMENT                                  |                            | SMOKE DAMPER   |                 |                                       | TEMPERATURE OR<br>PRESSURE PROBE WELL                    | (H) s   | HUMIDITY SENSOR   |
| INECTION                                      | FSD                        |  | _               |                                       | THERMOMETER  | $(\mathbf{H})_{\mathbf{A}\mathbf{A}}$                 | HUMIDITY SENSOR W/ GUARD                                      |
| R COLUMN                                      |                            | FIRE AND SMOKE DAMPER  |                 | Ρ                                     |  | SG  |   |
| INECTION TO BEAM                              |                            |  |                 |                                       | PRESSURE SWITCH  | (P) S   | PRESSURE SENSOR   |
| CATES BM TO HAVE<br>OF WALL CLIPS             |                            |  |                 | <br><br>                              | PRESSURE GAUGE   | (P) <sub>SG</sub>                                     | PRESSURE SENSOR W/ GUARD                                      |
| T DESIGNATION                                 |                            | BACKDRAFT DAMPER   | —               | <u>-rŸ TP</u><br>♥                    | TEMPERATURE/ PRESSURE GAUGE                              | (S)   | SWITCH  |
|   |                            |  |                 | <br>□ AV                              | MANUAL AIR VENT  | ( <b>T</b> )  | THERMOSTAT  |
| т   |                            | _ EXISTING DUCTWORK  |                 | ⊤<br>□,sv                             | AUTOMATIC AIR VENT                                       | ( <b>1</b> )  |   |
| GONAL BRIDGING                                |                            | AIR FLOW   |                 | VB                                    |  | (T) <sub>G</sub>                                      | THERMOSTAT W/ GUARD   |
|   |                            | DUCT AIR FLOW  |                 | F                                     |  | (T)   | TEMPERATURE SENSOR  |
| RING WALL                                     |                            | EXISTING MECHANICAL<br>EQUIPMENT TO BE REMOVED                       | _               | (M)                                   | FLOW SWITCH  |   |   |
| AR WALL                                       |                            |  |                 |                                       |  |   | CO2 SENSOR  |
|   |                            | EXISTING MECHANICAL EQUIPMENT  |                 |                                       |  | POC   | POINT OF CONNECTION   |
| I BEARING WALL                                |                            |  | _               |                                       | VENTURI FLOW METER                                       | $\vdash$  | FIRE DEPARTMENT CONNECTION                                    |
| WALL  |                            | MECHANICAL EQUIPMENT   |                 | · · · · · · · · · · · · · · · · · · · | WYE STRAINER WITH BLOW DOWN                              | VALVE   |   |
| L TYPE  |                            |  | _               | <b>→</b>                              | DIRECTION OF FLOW  |   |   |
|   |                            | ACCESS CLEARANCE   | _               | ې                                     | PIPE BREAK   |   |   |
|   |                            |  |                 | M                                     | WATER METER  |   |   |
|   |                            |  |                 |                                       |  |   |   |
|   |                            |  |                 |                                       |  |   |   |
| ION BOLT<br>ICAL CONTRACTOR                   | FRA<br>FRC                 | FRESH AIR<br>FIRE RESISTANT COATING                                  | IN<br>INCI      | INCHES<br>INCLUDE (D) (ING)           | MAX<br>MB  | MAXIMUM<br>MARKER BOARD                               | PLAS PLASTER, PLASTI<br>PLF POUNDS PER LIN                    |
| CED CONCRETE FLOORING                         | FRP<br>FRT                 | FIBERGLASS REINFORCED PANEL<br>FIRE RETARDANT                        | INS<br>INT      | INSULATE (D) (ION)<br>INTERIOR        | MBH<br>MBR   | THOUSAND BTUH<br>MEMBER                               | PLYWD PLYWOOD<br>PM PLUGMOLD                                  |
| ION JOINT<br>IC (AL)                          | FS<br>FSD<br>FT            | FIRE AND SMOKE DAMPER<br>FEET, FLOOR TREATMENT                       | IP<br>IPS       | IRON PIPE<br>IRON PIPE SIZE           | MD<br>ME<br>MECH   | MECHANICAL EQUIPMENT<br>MECHANICAL EQUIPMENT          | POC POINT OF CURVA<br>CONNECTION                              |
| T<br>ION, ELEVATOR<br>ENCY                    | FTG<br>FTR<br>F\/          | FOOTING<br>FIN TUBE RADIATION<br>FLUSH VALVF                         | IW<br>.I        | INDIRECT WASTE                        | MED<br>MEMI<br>ME77                                      | MEDIUM<br>3 MEMBRANE<br>2 MEZZANINF                   | POL POLISHED<br>POS POSITIVE<br>POT POINT OF TANCE            |
| ICAL METALLIC TUBING                          | G                          | GAS, GLYCOL  | JAN<br>JB       | JANITORS CLOSET                       | ME<br>MF<br>MFR  | MIXING FAUCET<br>MANUFACTURE (R)                      | PR PAIR<br>PRE POWER ROOF EX                                  |
| F DECK<br>F SLAB<br>EQUIVALENT                | GA<br>GAL<br>GALV          | GAUGE<br>GALLON<br>GALVANIZED  | JC<br>JCT<br>JT | JANITORS CLOSET<br>JUNCTION<br>JOINT  | MH<br>MIN<br>MIR   | MAN HULE<br>MINIMUM<br>MIRROR                         | РКЕР PREPARE (ATION)<br>PRF PREFORMED<br>PROJ PROJECT         |
| ENT CONTRACTOR<br>ENT                         | GASK<br>GC<br>BUCTURE COMU | GASKET (ED)<br>GENERAL CONTRACT (OR)<br>GLAZED CONCRETE MASONRY UNIT | KW              |                                       | MISC<br>MO   | MISCELLANEOUS<br>MASONRY OPENING<br>MODULE (OR) MODEL | PS PAINT EXPOSED S<br>PSF POUNDS PER SQI                      |
| SHEET FLASHING                                | GCO<br>GL                  | GRADE CLEANOUT GF GROUND FACE<br>GLASS, GLAZING                      | KV<br>KVA       | KILOVOLT<br>KILOVOLT AMPERE           | MD<br>MR<br>MP   | MOP RECEPTOR<br>MULTICOLOR WALL COATIN                | IG PT POINT, PORCELAI   |
| AY<br>IC WATER COOLER<br>NG WATER TEMPERATURE | GND<br>GPM<br>GR           | GROUND<br>GALLONS PER MINUTE<br>GRADE (ING), GLYCOL RETURN           | L<br>LAB        | LENGTH, LONG<br>LABORATORY            | MT<br>MTD<br>MTG   | MOUNT<br>MOUNTED<br>MOUNTING                          | PTFR PRESSURE TREA<br>PTP PRESSURE TREA<br>PVC POLYVINYL CHLO |
| G<br>ION                                      | GS<br>GVL                  | GLYCOL SUPPLY<br>GRAVEL  | LAD<br>LAM      | LADDER<br>LAMINATE (D)                | MTL<br>MTH   | METAL<br>MARBLE THRESHOLD                             | PVMT PAVEMENT<br>PWE POWER WALL EX                            |

LAT LEAVING AIR TEMPERATURE LAV LAVATORY LB POUND LBL LABEL LBP LEAD BASED PAINT LC LANDSCAPE CONTRACTOR (SITE) 

 MTR
 METER

 MULL
 MULLION
 QF
 QUARTZ FLOORING

 MVEJ
 MASONRY VENEER EXPANSION JOINT
 QT
 QUARRY TILE

 N
 NORTH, NO WORK REQUIRED
 QT
 QUARRY TILE

 NAT
 NATURAL
 R
 RADIUS, RETURN, R

 NC
 NORMALLY CLOSED
 RA
 RETURN AIR

 NC
 NATIONAL ELECTRIC CODE
 RAD
 RADIUS

 GWB GYPSUM WALL BOARD GYP GYPSUM H HEIGHT HB HOSE BIB HBD HARD BOARD R RADIUS, RETURN, F RA RETURN AIR RAD RADIATION RAF RETURN AIR FAN, F HC HEATING CONTRACT (OR), HANDICAP HCR HOT/CHILLED RETURN HCS HOT/CHILLED SUPPLY NEC NATIONAL ELECTRIC CODE NEG NEGATIVE NEUT NEUTRALIZATION NIC NOT IN CONTRACT LCC LEAD COATED COPPER LDR LEADER LEV LEVEL FLOORING HD HEAVY DUTY HDPE HIGH DENSITY POLYETHYLENE HDR HEADER RB RESILIENT BASE RC ROOFING CONTRAC RCA RECYCLED CONCR LV LABORATORY VENT NO NUMBER, NORMALLY OPEN NOM NOMINAL LW LABORATORY WASTE LF LINEAR FOOT I LFMC LIQUID-TIGHT FLEXIBLE METAL CONDUIT I LFNC LIQUID-TIGHT FLEXIBLE NONMETALLIC CONDUIT NRC NOISE REDUCTION COEFFICIENT NTS NOT TO SCALE HDW HARDWARE HG HOT GLYCOL RCP REINFORCED CON REFLECTED CEILIN REFLECTED CEILIN RCU REMOTE CONDENS RD ROOF DRAIN RECEPT RECEPTACLE REF REFERENCE REFL REFLECT (ED) (IVE) REFR REFRIGERATOR REFC RECONTER HIP HIGH IMPACT PANEL LG LENGTH, LONG HORZ HORIZONTAL LGI LARGE GROUP INSTRUCTION HP HORSEPOWER, HIGH PRESSURE, HEAT PUMP LH LEFT HAND HPS HEAT PUMP LOOP WATER SUPPLY LIN LINEAR HPR HEAT PUMP LOOP WATER RETURN LKR LOCKER HPC HIGH PERFORMANCE COATING LL LIVE LOAD HPL HIGH PRESSURE LAMINATE LP LOW PRESSURE HR HANDRAIL, HOUR LPC LOW PRESSURE HM HOLLOW METAL LG LENGTH, LONG OVERALL, OUTSIDE AIR OA OA OVERALL, OUTSIDE AIR OC ON CENTER OD OUTSIDE DIAMETER OH OVERHEAD OPNG OPENING OPP OPPOSITE OPP HD OPPOSITE HAND 
 OPNG
 OPENING
 REFR
 REFR
 REFR
 REFR
 GREFR

 OPP
 OPPOSITE
 REG
 REGISTER

 OPP HD
 OPPOSITE HAND
 REINF
 REINFORCE (D) (ING)

 P
 PAINT SURFACE(S) INCLUDING SOFFITS
 REQD
 REQUIRED

 PAR
 PARALLEL
 RESIL
 RESILIENT

 PART
 PARTITION
 RET
 RETAINING, RETURN

 PC
 PLUMBING CONTRACT (OR),
 REV
 REVISION, REVISED,

 PIGMENTED CONCRETE
 RF
 RUBBER FLOORING

 PCC
 PRECAST CONCRETE
 REG
 ROOFING
 HT HEIGHT HTG HEATING HV HIGH VOLTA LPS LOW PRESSURE STEAM LOW POINT LINOLEUM SHEET LPT HIGH VOLTAGE 
 HVAC
 HEATING/VENTILATING/AIR CONDITIONING

 HVU
 HEATING AND VENTILATING UNIT

 HW
 HOT WATER
 LIGHT, LINOLEUM TILE LINTEL LOW VOLTAGE 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 LTI RF RUBBER FLOORING RFG ROOFING RFH ROOF HATCH RFM RECESSED FLOOR RG RETURN GRILLE RGS RIGID GALVANIZED RH RIGHT HAND RHC REHEAT COIL RI ROUGH-IN ON BOARD, FLAT ON BOTTOM LV HWH HOT WATER HEATER HWP HOT WATER PUMP LVR LOUVER LWT LEAVING WATER TEMPERATURE HWR HOT WATER RETURN MAN MANUAL MAS MASONRY MAT MATERIAL HWS HOT WATER SUPPLY INSIDE DIAMETER ID MAU MAKE UP AIR UNIT IE 

| 12  | 13                   | 11   | 4                           | 15   | 16                      | 17  |          | [                                |
|---|----------------------|--|-----------------------------|--|-------------------------|---|----------|----------------------------------|
|   |                      |  |                             | Electrical and T   | echnol                  | ogy Symbols   |          | Sta                              |
|   |                      | CONNECTION TO<br>EXISTING PIPING                                     | #                           | LIGHT FIXTURE<br># DENOTES TYPE  |                         | CABLE TRAY - LADDER TYPE  | A        | 2-                               |
| N   |                      | PLATE STRAINER   | <b>_</b> #                  | LIGHT FIXTURE<br># DENOTES TYPE  |                         | CABLE TRAY - BASKET TYPE SURFACE RACEWAY  |          |                                  |
| , <b>-</b>  |                      | HOSE BIBB  |                             | RETROFITTED LIGHT FIXTURE<br>AS NOTED  | CI                      | COMMUNICATION INTERFACE OUTLET  |          | 1/8                              |
| CA<br>LV  |                      | COMPRESSED AIR<br>LABORATORY VENT                                    | <b>▲</b> <u>→</u> #         | COMBINATION EXIT/EMERGENCY LIGHT<br># DENOTES TYPE                                   | S                       | CEILING MOUNT SPEAKER   |          | 2                                |
| = LW —  |                      | LABORATORY WASTE   | <b>▲</b> *                  | EMERGENCY LIGHT W/BATTERY PACK<br># DENOTES TYPE                                     | S<br>≥<br>VC            | VOLUME CONTROL  |          | A112                             |
| LW  |                      | LABORATORY WASTE (BURIED)  | *                           | EMER. LIGHT/WALL MOUNT<br># DENOTES TYPE<br>EMERGENCY FIXTURE                        | Ŵ                       | HORN SPEAKER  | В        |                                  |
| V<br>SAN  |                      | VENT<br>SANITARY (ABOVE GRADE)                                       | <b>2</b> #                  | # DENOTES TYPE<br>EMERGENCY FIXTURE  | P                       | PROGRAM BELL  |          |                                  |
|   |                      | SANITARY (BURIED)  | #<br>                       | # DENOTES TYPE<br>EXIT LIGHT- CEILING MOUNTED<br># DENOTES TYPE                      | FB<br>DR                | FLOOR BOX<br>DOOR RELEASE   |          | RAL                              |
|   |                      | INDIRECT WASTE   |                             | EXIT LIGHT -WALL MOUNTED<br># DENOTES TYPE   | \<br>SE                 | SECURITY ALARM HORN   | _        | 2<br>A112<br>WAL                 |
| VEST<br>ST  |                      | STORM (ABOVE GRADE)<br>STORM (BURIED)                                | ELS                         | DAYLIGHT SENSOR  | SE -                    | SECURITY SENSOR<br>GB - GLASS BREAK<br>MD - MOTION DETECTOR                       |          | 1                                |
| SP  |                      | FIRE STANDPIPE   | AR<br>#                     | AREA OF RESCUE LIGHT FIXTURE<br># DENOTES TYPE                                       | DC                      | SD - SOUND DETECTOR<br>SECURITY DOOR CONTACT                                      | с        |                                  |
| ———— F ——<br>SPBК —                                   |                      |  | ■-⊡<br>#                    | POLE MOUNTED SITE LIGHT<br># DENOTES TYPE  | KP<br>#                 | SECURITY SYSTEM KEYPAD<br># DENOTES DESIGNATION                                   |          | 3<br>N                           |
|   |                      | EXISTING COLD WATER  | ⇒ ►                         | K - KEY OPERATED   |                         | SECURITY CAMERA<br># DENOTES DESIGNATION  |          |                                  |
|   |                      |  |                             | 3 - 3 WAY<br>4 - 4 WAY<br>D - DIMMER   | REX                     | SECURITY REQUEST TO EXIT SENSOR   | _        |                                  |
| 110   | ° HW —               | EXISTING 110° HOT WATER  | ŝ                           | LIGHTING CONTROL (LOW VOLTAGE)   | PS #                    | LOW-VOLTAGE POWER SUPPLY<br># DENOTES DESIGNATION                                 |          |                                  |
| E140  | )° HW —              | EXISTING 140° HOT WATER  | TC                          | TIME CLOCK<br>ACCESS POINT   | ELH                     | SECURITY ELECTRIC<br>LOCKING HARDWARE   |          |                                  |
| 180   |                      | EXISTING 180° HOT WATER  | ©S<br>OS                    | OCCUPANCY SENSOR   | IC #                    | DOOR INTERCOM CALL STATION<br># DENOTES DESIGNATION                               |          | A MAT                            |
|   |                      |  | (VS)<br>PC                  | VACANCY SENSOR<br>PHOTO CELL   | CR #                    | ACCESS CONTROL CARD READER<br># DENOTES DESIGNATION                               |          |                                  |
|   | )° HW—               | 110° HOT WATER   | LC                          | LIGHTING CONTROL   | ADA<br>MON              | ADA PUSH BUTTON<br>SECURITY CCTV MONITOR  | _        |                                  |
|   | ° HW—                | 140° HOT WATER   | F<br>F<br>F                 | FIRE ALARM MANUAL PULL STATION   | DB                      | SECURITY DURESS BUTTON  |          | SAND                             |
|   | )° HW—               | 180° HOT WATER   |                             | W/STROBE W/0 STROBE<br>FIRE ALARM HORN-  |                         | EXISTING PANEL TO REMAIN<br>EXISTING PANEL TO REPLACE                             |          | NEW ASPH                         |
| RAW-  |                      | RAW WATER  | $\langle S \rangle$         | W/STROBE W/0 STROBE<br>SMOKE DETECTOR  |                         |   | ш        | REMOVE A                         |
| SW  |                      |  | ⟨B⟩→<br>⟨S⟩                 | BEAM SMOKE DETECTOR  |                         | SURGE PROTECTION DEVICE   |          | ASPHALT P                        |
| DI -  |                      | DISTILLED WATER  | ⊡ <sub>D</sub><br>⟨H⟩       | RATE OF RISE HEAT DETECTOR   |                         | NEW MOTOR   | _        |                                  |
| G   |                      | GAS  | ⟨H⟩ <sub>F</sub>            |  | <b>#</b>                | SEE SCHEDULE FOR DESCRIPTION  |          | FINISHED V                       |
| P<br>D  |                      | DIESEL FUEL  | DH                          | MAGNETIC DOOR HOLDER   | PB                      | PULL BOX<br>JUNCTION BOX  |          |                                  |
| U   |                      | UNLEADED GASOLINE  | (A)<br>(A)                  | FIRE ALARM / VOICE NOTIFICATION<br>SPEAKER (WALL)<br>FIRE ALARM / VOICE NOTIFICATION | H                       | HAND/HAIR DRYER   | ш        |                                  |
|   |                      | EXG FUEL OIL SUPPLY  | Ä                           | SPEAKER (CEILING)<br>FIRE ALARM / VOICE NOTIFICATION<br>SPEAKER STROBE (CEILING)     | Ф<br>Ф                  | SINGLE RECEPTACLE   |          | STRUCTUR                         |
| FOR-  |                      | EXG FUEL OIL RETURN  | Ā                           | FIRE ALARM / VOICE NOTIFICATION<br>SPEAKER STROBE (WALL)                             | <b>⊕</b>                | DOUBLE DUPLEX RECEPTACLE  | _        | METAL, STE                       |
| FOR<br>FOV  |                      | FUEL OIL RETURN<br>EXG FUEL OIL VENT                                 | A                           | FIRE ALARM / VOICE NOTIFICATION<br>STROBE (WALL)                                     | φ<br>Φ                  | SPECIAL PURPOSE RECEPTACLE DUPLEX FLOOR RECEPTACLE                                |          | ACOUSTIC/                        |
| FOV -   |                      | FUEL OIL VENT  | RTS                         | RELAY<br>REMOTE INDICATOR TEST SWITCH  | CR                      |   |          | RESILIENT                        |
| MU  |                      | MECHANICAL EQUIPMENT<br>MAKE-UP COLD WATER<br>(NON-POTABLE)          | FS<br>TS                    | SPRINKLER FLOW SWITCH<br>SPRINKLER TAMPER SWITCH                                     |                         | NON-FUSED DISCONNECT SWITCH   | ი        | PLASTER, (<br>WALL BOAI          |
|   |                      | EXISTING ROOF DRAIN  | FAA                         | FIRE ALARM ANNUNCIATOR PANEL   |                         | FUSED DISCONNECT SWITCH   |          |                                  |
| -\$-  |                      | ROOF DRAIN REPLACING EXG   | FAGA                        | FIRE ALARM GRAPHIC ANNUNCIATOR   |                         | COMBINATION STARTER   |          |                                  |
|   |                      | ROOF DRAIN   | CS<br>HCL                   | CONTROL STATION-<br>TYPE AS DESCRIBED ON DWGS.<br>HOUSE LIGHTING CONTROL STATION     | C<br>CB                 | CONTACTOR<br>ENCLOSED CIRCUIT BREAKER   |          |                                  |
|   |                      | SCUPPER ROOF DRAIN   |                             | DIMMER CONTROL OUTLET  |                         | EQUIPMENT CONNECTION  |          |                                  |
| [~~~  | $\mathbf{x}$         | EXG PLUMBING FIXTURE   | MJ                          |  | <b>T</b> #              | EMERGENCY OFF BUTTON  | т        |                                  |
|   |                      |  | P                           | SPEAKER JACK<br>HOUSE LIGHT PANIC STATION  |                         | # DENOTES DESIGNATION<br>REFER TO RISER DIAGRAM                                   |          |                                  |
| $\sim$  | $\mathbf{)}$         |  |                             | AUDITORIUM INTERCOM<br>COMBINATION CLOCK/SPEAKER                                     | P                       | UTILITY POLE  |          | S.E.D. Contr                     |
|   | 2                    | FLOOR DRAINS   | $\bigcirc$                  | CLOCK<br>EXISTING TELEPHONE  | ——UT—<br>—— т ——        | UNDERGROUND TELEPHONE   | _        | S.E.D. Contr                     |
| ×   |                      | FLOOR SINK   |                             |  | UTV                     | UNDERGROUND TELEVISION  |          | S.E.D. Contr                     |
| $\mathbb{T}$  |                      | WALL HYDRANT   | T T                         | IC - INTERCOM SOUND SYSTEM HAND SE<br>BLANK - WALL MOUNT AT 16" AFF                  | T TV<br>UL              | OVERHEAD TELEVISION   | _        | S.E.D. Contr                     |
| ٥   |                      | UPRIGHT SPRINKLER HEAD   | <u>/H</u><br>LD             | EXTERIOR EVACUATION STROBE (EES)<br>LOCK DOWN  | L                       | OVERHEAD LIGHTING   |          |                                  |
| 0   |                      | PENDANT SPRINKLER HEAD   | $\bigcirc \\ \triangleleft$ | FLOOR TELEPHONE OUTLET<br>INTERCOM CALL SWITCH                                       | ——UE——<br>——E——         | UNDERGROUND ELECTRIC  |          |                                  |
| •   |                      | RECESSED SPRINKLER HEAD  | TV<br>CO                    | TELEVISION OUTLET<br>COMPUTER OUTLET   | —-UC—-                  |   | -        |                                  |
| •   |                      | SIDEWALL SPRINKLER HEAD  | A/V                         | AUDIO/VIDEO OUTLET<br>PROJECTOR MOUNTING   | ol Tags                 | AC = ABOVE CEILING  |          | Day Na L Data                    |
|   |                      |  | F = F                       |  | C                       | AUX = AUXILLARY CONTACT<br>WP = WEATHERPROOF<br>WG = WIRE GUARD                   | ۔<br>٦   | Rev. No.: Date:                  |
|   |                      |  | F <sup>E</sup> = E          | EXISTING TO REMAIN   | FOR                     | A = ABOVE (CASEWORK)<br>B = BELOW (CASEWORK)                                      |          |                                  |
|   |                      |  | F <sup>RL</sup> = F         |  | CSYMBOLS                | H = HORIZONTAL<br>TK = TOE KICK<br>TS = TEACHER STATION                           |          | Established 1938                 |
| PI ASTIC  | RI                   |  | F <sup>RE</sup> = F         |  | VF                      | USB = UNIVERSAL SERIAL BUS  |          | A S                              |
| ER LINEAR FOOT  | RLG<br>RM<br>RMC     | RAIL(ING)<br>ROOM<br>RIGID METAL CONDUIT                             |                             | SWCI SERVICE WEIGHT CAST IRO<br>SYM SYMMETRICAL<br>SYN SYNTHETIC                     | N VE<br>VE<br>VI        | RT VERTICAL<br>ST VESTIBULE<br>VERIFY IN FIELD                                    |          |                                  |
| CURVATURE, POINT OF<br>ON                             | RNC<br>RNT<br>RO     | RIGID NONMETALLIC CONDUIT<br>RUNNING TRAP<br>ROUGH OPENING           |                             | SYS SYSTEM<br>T TREAD. TOP. TOILET ROOM.   | VIN<br>VIT<br>TONS. VN  | N VINYL<br>VITREOUS TILE<br>R VENEER  | ×        | complex world                    |
| ANGENCY   | ROW<br>RPM<br>RR     | RIGHT OF WAY<br>REVOLUTIONS PER MINUTE<br>REMOVE EXISTING AND REPLAC | E WITH NEW                  | TERRAZZO<br>TB TOP AND BOTTOM, TACK BC<br>TERRAZZO BASE                              | ARD, VO<br>VT<br>VM     | IL VOLUME<br>R VENT THROUGH ROOF<br>/C VINYL WALL COVERING                        | _        | CLEA                             |
| OOF EXHAUSTER<br>ATION)                               | RS<br>RTH<br>RTU     | RUBBER STAIR TREAD/RISER<br>ROOF TOP HOOD<br>ROOF TOP UNIT           |                             | TBD TO BE DETERMINED<br>TC TEMPERATURE CONTROL, T<br>CLEAR, TELECOMMUNICATIO         | EMPERED W               | WEST, WIDTH, WIDE, WASTE, WAT<br>WET BULB   | т        | Totro Tooh Engin                 |
| ED  | RW<br>S              | RAW WATER<br>SOUTH, SUPPLY, SURGE PROTE                              | CTED                        | CONTRACTOR, TOP OF CUR<br>TCX TOP CHORD EXTENTION<br>TDV TRIPLE DUTY VALVE           | B WC<br>WE<br>WE        | C WATER CLOSET, WALL COVERING<br>WOOD, WOOD FLOORING<br>WINDOW                    | _        | & Landscape Arch                 |
| ER SQUARE FOOT<br>ER SQUARE INCH<br>RCELAIN TILE      | SA<br>SAN<br>SAS     | SUPPLY AIR<br>SANITARY<br>SMOOTH ALL SIDES                           |                             | TEL TELEPHONE<br>TEMP TEMPERATURE<br>TG TOP GRILLE, TONGUE AND C                     | WE<br>WF<br>GROOVE WC   | WC       WINDOW CONTRACTOR         WASH FOUNTAIN         WALL GRILLE, WATER GAUGE |          |                                  |
| TREATED FIRE RETARDANT                                | SC<br>SCHED<br>SCT   | SOLID CORE, SILL COCK, SEALEI<br>SCHEDULE<br>STRUCTURAL CLAY TILE    | O CONCRETE                  | E THK THICKNESS<br>THR THRESHOLD<br>TME TO MATCH EXISTING                            | WH<br>WH<br>WI          | H WALL HUNG, WALL HYDRANT<br>HA WATER HAMMER ARRESTOR<br>WROUGHT IRON             |          |                                  |
| CHLORIDE  | SD<br>SEC            | STORM DRAIN, SPLITTER DAMPE<br>SMOKE DAMPER<br>SECTION               | R,                          | TMV THERMOSTATIC MIXING VAL<br>TOD TOP OF DUCT<br>TOF TOP OF FASCIA, TOP OF FOO      | VE WI<br>WF<br>DTING WF | M WIREMOLD<br>WATER PROOFING, WORKING POIN<br>WATER REPELLENT, WIDE RIB, WA       | JT<br>JT |                                  |
| .OORING<br>LE   | SF<br>SGI<br>SGT     | SQUARE FEET<br>SMALL GROUP INSTRUCTION<br>STRUCTURAL GLAZED TILE     |                             | TOLTOLERANCETOMTOP OF MASONRYTOPTOP OF PIPE, TOP OF PIER                             | WS                      | REGISTER<br>S WATER STOP<br>SCT WAINSCOT  |          |                                  |
| ETURN, REFRIGERANT<br>R                               | SH<br>SHR<br>SHT     | SHELF, SHELVING, SMOKE HATC<br>SHOWER, SHEAR WALL<br>SHEET           | Н                           | TOS TOP OF STEEL, TOP OF STA<br>TPART TOILET PARTITION<br>TR TOP REGISTER            | R W1<br>WV<br>WV        | - WEIGHT<br>WHP WATER TO WATER HEAT PUMP<br>WM WELDED WIRE MESH                   | _        | Wallkill Ce                      |
| R FAN, RESILIENT ATHLETIC                             | SHTHG<br>SIM<br>SK   | SHEATHING<br>SIMILAR<br>SINK   |                             | TRN TRANSOM<br>TS TOP OF STAIR<br>TV TELEVISION                                      | W/<br>W/                | WITH<br>O WITHOUT   |          | Wallkill, Ne                     |
| BASE<br>CONTRACT (OR)<br>CONCRETE AGGREGATE           | SL<br>SLC<br>SLV     | SOUND LINED, SKYLIGHT<br>SILLCOCK<br>SLEEVE                          |                             | TW TEMPERED WATER, TOP OF<br>TYP TYPICAL   | WALL XH                 | CI EXTRA HEAVY CAST IRON<br>YARD DRAIN, YARD                                      |          |                                  |
| ED CONCRETE PIPE,<br>D CEILING PLAN<br>ONDENSING UNIT | SLVR<br>SMH<br>SOG   | STORM LOUVER<br>SANITARY MANHOLE<br>SLAB ON GRADE                    |                             | UC UNDERCUT<br>UD UNDERDRAIN<br>UE UNDERGROUND ELECTRIC                              | _                       |   | Σ        | Reconstruct<br>Wallkill Senior H |
| IN<br>LE<br>E   | SP<br>SPEC           | STATIC PRESSURE, STANDPIPE,<br>SPACE (ING) (ES)<br>SPECIFICATION (S) |                             | UG UNDERGROUND<br>UH UNIT HEATER<br>UNF UNFINISHED                                   |                         |   |          | John G. Borden                   |
| LU) (IVE) (OR)<br>ATOR                                | SPKR<br>SPL<br>SQ    | SPRINKLER<br>SPECIAL<br>SQUARE                                       |                             | UNIF UNIFORM<br>UNO UNLESS NOTED OTHERWISE<br>UR URINAL                              | =                       |   |          | Plattekill Elemer                |
| E (D) (ING)   | SS<br>SST<br>ST      | STAINLESS STEEL<br>STRUCTURAL STEEL TUBING<br>STORM, STORAGE         |                             | UI UNDERGROUND TELEPHON<br>UV UNIT VENTILATOR  | =                       |   |          |                                  |
| , RETURN<br>REVISED, REVEAL                           | STA<br>STC           | STATION<br>SHOWER TEMPERATURE CONTR<br>STAILED CONCRETE              | ROLLER,                     | V VENT, VOLT<br>VAR VARIES, VARIABLE<br>VARN VARNISH                                 |                         |   |          | Symbols a                        |
|   | STD<br>STG<br>STL    | STANDARD<br>SEATING<br>STEEL   |                             | VAI VINYL ASBESTOS TILE<br>VAV VARIABLE AIR VOLUME<br>VB VACUUM BREAKER, VAPOR       | RETARDER                |   | z        | Drawn By:<br>TTAE                |
| RILLE<br>/ANIZED STEEL                                | STOR<br>STOR<br>STRU | STAIN (ED)<br>STORAGE<br>STRUCTURAL<br>SURFACE                       |                             | VCB VENTED COVE BASE<br>VCT VINYL COMPOSITE TILE                                     |                         |   |          | Project No.:                     |
|   | SURF<br>SUSP<br>SV   | SURFACE<br>SUSPENDED<br>SHEET VIENL, STEAM VENT                      |                             |  |                         |   |          | 17597-220                        |
|   |                      |  |                             |  |                         |   |          |                                  |

| andard S  | Symbo                                       | ls   |  |  |  |  |  |  |  |  |
|---|---|--|--|--|--|--|--|--|--|--|
| STANDARD REFERENCE BUBBLE<br>————————————————————————————————————   |   |  |  |  |  |  |  |  |  |  |
| loor Plan<br><sup>B"=1'-0"</sup>  | AWING TITLE & S                             | SCALE  |  |  |  |  |  |  |  |  |
| 2<br>A112 BU  | IILDING SECTION                             |  |  |  |  |  |  |  |  |  |
| CLL cc  | NTRACT LIMIT LI                             | NE   |  |  |  |  |  |  |  |  |
| A 5' TURNING<br>DIUS  | 1st FF                                      | OUT  |  |  |  |  |  |  |  |  |
|   | 2<br>A12                                    | ELEVATION  |  |  |  |  |  |  |  |  |
|   | 2<br>A112                                   | DETAIL   |  |  |  |  |  |  |  |  |
| CL<br>RTH ARROW   | ASSROOM                                     | ROOM NAME AND<br>NUMBER                                  |  |  |  |  |  |  |  |  |
| OPERTY LINE -   |   | CUT LINE   |  |  |  |  |  |  |  |  |
| LUMN CENTER<br>E  |   | CENTER LINE  |  |  |  |  |  |  |  |  |
| TCH LINE (  |   | DRAWING REVISION<br>NUMBER                               |  |  |  |  |  |  |  |  |
|   | GR  | AVEL   |  |  |  |  |  |  |  |  |
|   | СС<br>СС                                    | DNCRETE  |  |  |  |  |  |  |  |  |
| HALT PAVING OR<br>RSE   | NE  | W HEAVY-DUTY<br>PHALT PAVING                             |  |  |  |  |  |  |  |  |
| AND REPLACE<br>PAVING   | BR  | ICK  |  |  |  |  |  |  |  |  |
| E MASONRY UNITS   | ST  | ONE  |  |  |  |  |  |  |  |  |
| WOOD TRIM   | PL  | YWOOD  |  |  |  |  |  |  |  |  |
| DN (LOOSE OR  | RC  | DUGH WOOD  |  |  |  |  |  |  |  |  |
| RAL GLAZED TILE   |   | GID INSULATION   |  |  |  |  |  |  |  |  |
| EEL   | TE  | RRAZZO   |  |  |  |  |  |  |  |  |
| AL PANEL  | CE  | RAMIC TILE   |  |  |  |  |  |  |  |  |
| FLOORING  | GL  | ASS (LARGE SCALE)  |  |  |  |  |  |  |  |  |
| rol No. 62-1<br>rol No. 62-1<br>rol No. 62-1<br>rol No. 62-1<br>rol No. 62-1  | 8-01-06<br> 8-01-06<br> 8-01-06<br> 8-01-06 | 6-0-007-018<br>6-0-002-014<br>6-0-003-014<br>6-0-005-015 |  |  |  |  |  |  |  |  |
|   | 10-01-00                                    | -0-001-019   |  |  |  |  |  |  |  |  |
|   |   |  |  |  |  |  |  |  |  |  |
| Description:  |   |  |  |  |  |  |  |  |  |  |
| CENTRAL   | <b>LL</b><br>SCHOOL                         | <b>XILL</b><br>DISTRICT                                  |  |  |  |  |  |  |  |  |
| AR SOLUTIONS  |   | SF   |  |  |  |  |  |  |  |  |
| eers, Architects<br>hitects, P.C.   |   |  |  |  |  |  |  |  |  |  |
|   | $\mathbf{\nabla}$                           |  |  |  |  |  |  |  |  |  |
| <b>TET</b><br>ARCHITE   |   | <b>TECH</b><br>NGINEERS                                  |  |  |  |  |  |  |  |  |
| <b>TET</b><br>ARCHITE   | RAT<br>CTS & EI                             | <b>TECH</b><br>NGINEERS                                  |  |  |  |  |  |  |  |  |
| entral School<br>ew York<br>ction to:<br>ligh School<br>Middle School<br>entary School<br>nentary School<br>nentary School<br>nentary School  | RA T<br>CTS & El<br>ol Distric              | <b>ECH</b><br>NGINEERS                                   |  |  |  |  |  |  |  |  |
| entral School<br>ew York<br>Ction to:<br>High School<br>Middle School<br>entary School<br>ntary School<br>mentary School<br>mentary School<br>mentary School                        | RAT<br>CTS & El<br>ol Distric               | Der:   |  |  |  |  |  |  |  |  |
| entral School<br>entral School<br>ew York<br>Ction to:<br>ligh School<br>Middle School<br>entary School<br>nentary School<br>nentary School<br>nentary School<br>Date:<br>11/4/2022 | RAT<br>CTS & El<br>ol Distric               | rech<br>ngineers   |  |  |  |  |  |  |  |  |



|  |  |  |  |   | General Code   |
|--|--|--|--|---|--|
| Code Compl   | liance Re  | view   |  | А | A. COORDINATE WIT<br>PARTITION TYPES<br>IMMEDIATELY NO |
| PROJECT LOCATION:<br>1270 NY ROUTE 32, PL/<br>BOUNDED BY NY STAT<br>LANE TO THE EAST.  | ATTEKILL, NY 125<br>TE ROUTE 32 TO   | 568<br>THE WEST, HUCKLE  | EBERRY TURNPIKE TO THE NORTH, AND MARCANO  |   | B. ALL WALLS, INCLU<br>COMPLETELY TO                   |
| PROJECT DESCRIPTIO<br>THIS PROJECT INCLUE<br>THE PROJECT ALSO IN<br>SYSTEM, ROOF STRUC   | DES THE RENOVANCE THE RENOVANCE THE RENOVANCE REINFORMENTE REINFORMENT | ATION OF THE MAIN<br>COATING AND SEL<br>CEMENT AND ASSO  | I ENTRANCE TO CREATE A SECURITY VESTIBULE.<br>ECT REPLACEMENT OF THE EXISTING FOAM ROOF<br>DCIATED CEILING WORK, AND REPLACEMENT OF  |   | C. AT AREAS OF PRO<br>PENETRATIONS R                   |
| WORK GENERALLY CC<br>ALTERATIONS - LEVEI   | DNSISTS OF THE   | FOLLOWING:   |  |   | KATINGS IDENTIF<br>NEW OR EXISTING                     |
| LOCKDOWN DOC     ROOF RECOATIN   | OR HARDWARE UNG AND SELECT I   | JPGRADES<br>REPLACEMENT  |  | В |  |
| ALTERATIONS - LEVEL<br>• RECONFIGURAT<br>• ROOF STRUCTU  | 2<br>ION OF MAIN ENT<br>RAL REINFORCE  | FRANCE FOR SECU  | IRITY  |   |  |
| APPLICABLE CODES A   |  |  |  | _ |  |
| 2018 ICC CODES, 2020<br>ICC A117.1-09 STANDA<br>EDUCATIONS 155 REG   | BUILDING CODE<br>RD FOR ACCESS<br>BULATIONS (SED )   | ORIVI FIRE PREVEN<br>of NYS INCLUDING<br>BIBLE AND USABLE I<br>MPS-98).  | THE 2020 BONYS, 2020 EBONYS AND 2020 ECONYS,<br>BUILDINGS AND FACILITIES AND COMMISSIONER OF   | C |  |
| BUILDING DATA:<br>BUILDING: PLAT   |  | FARY SCHOOL  |  |   | 1941 OR  |
| DESCRIPTION: THRE  | TEKILL, NY 12568   | 3<br>NRY AND REINFOR   | CED  | _ |  |
| CON  | CRETE BUILDING   | WITH BASEMENT.   |  |   | 1958 BUI   |
| YEAR BUILT: 1941<br>BUILDING AREA: BASE<br>1ST F   | EMENT<br>FLOOR   | 5,193 SQFT<br>61,147 SQFT  |  | D | 1959 BUI   |
|  | AL GROSS AREA=<br><b>v</b> ·   | = 66,340 SQFT  |  |   |  |
| USE GROUP:   | E : EDUCATION  |  |  | _ |  |
| CONSTRUCTION TYPE<br>EXISTING:   | IIB  |  |  |   |  |
| NEW:   | IIB  |  |  | ш |  |
| SPRINKLERED:<br>WORK AREA:   | NO<br>LOCATION   | AREA   | % OF TOTAL   |   |  |
| CORRIDOR DOORS:  | 1ST FLOOR<br>ALL CORRIDOR<br>MINIMUM FIRE F  | 335 SQFT<br>DOORS SCHEDULE<br>DOOR ASSEMBLY R  | 0.51%<br>ED TO BE REPLACED SHALL HAVE<br>ATING OF 20 MINUTES IN  | _ |  |
| PATH OF CODE COMP  | ACCORDANCE   | WITH SECTION 716.  | 5  |   |  |
| 2018 IEBC CODES AND<br>301.1.2 WOR   | 2020 EXISTING E  | BUILDING CODE of N   | NYS  | ш |  |
| CHAPTER 6 - CLASSIFI<br>602 ALTERATION   | ICATION OF WOR   | K<br>PTER 7)   |  |   |  |
| 603 ALTERATION<br>NEW CONSTRUCTION<br>INCLUDING THE 2020 E   | V - LEVEL 2 (CHAI<br>WILL COMPLY W<br>BCNYS, 2020 EBC  | PTER 8)<br>TH REQUIREMENT<br>NYS AND 2020 ECC  | TS OF 2018 ICC CODES, 2020 BUILDING CODE of NYS<br>CNYS, ICC A117.1-09 STANDARD FOR ACCESSIBLE   | _ |  |
| MPS-98).   | שט אוזע דאכונודופ<br>ד (PER ד אפו ב 10)  | ט נעאוא 500 COMMISSIO<br>17 2\ <sup>.</sup>  | THER OF EDUCATIONS 133 REGULATIONS (SED  |   |  |
|  | EL DISTANCE - SE   | E BG351.   |  | G |  |
| FOR CORRIDOR<br>ALL CROSS COR  | FIRE RESISTANC   | XE - SEE ENLARGEI<br>NS ARE SMOKE PA   | D PLANS, PARTITION TYPES AND DOOR SCHEDULE.<br>RTITIONS AND EXTEND FROM FINISH FLOOR TO  |   |  |
| 1 HR. STUD PARTITION<br>NOTES:<br>1. RATING PROVIDED E<br>UNITS - DETERMINATIO<br>CMU REQUIRED IS BAS<br>FIRE RESISTANCE, TAI<br>RESISTANCE PERIODS<br>PARTITIONS, ITEM NUM<br>2. ALL CMU CONSTRUC<br>RESISTANCE REQUIRE<br>SAME NAME ABOVE, B<br>COMPLY WITH UL DES<br>TO COMPLY WITH UL DES<br>TO COMPLY WITH UL DES<br>SUCH ON PLAN DETAIL<br>SUCH ON PLAN DETAIL | NS<br>BY 4" SOLID CON<br>ON OF EQUIVALE<br>SED ON SECTION<br>BLE 721.1 (2) RAT<br>S FOR VARIOUS V<br>MBER 3-1.2<br>CTION SHALL ME<br>EMENTS INDICAT<br>BLOCK TYPE AS R<br>SIGN NUMBERS A<br>FED WALLS INDIC<br>IGS. PROVIDE MI<br>IONS <u>REGARDLES</u><br>LS.   | UL# U465<br>CRETE MASONRY<br>INT THICKNESS OF<br>721 PRESCRIPTIVE<br>ED FIRE<br>VALLS AND<br>ET FIRE<br>ED IN CHART OF<br>REQUIRED TO<br>ND AS REQUIRED<br>INIMUM 4" SOLID<br>SS IF NOTED AS | ALL FINISHES IN CORRIDORS AND ASSEMBLY SPACES SHALL HAV<br>FIRE HAZARD CLASSIFICATION PER MANUAL OF PLANNING<br>STANDARDS SECTION S202-2, a. THROUGH e.<br><b>RESCUE LABEL / SIGNAGE NOTES</b><br>1. REFER TO PLANS FOR RESCUE WINDOW LOCATIONS<br>1. REFER TO SPECIFICATION SECTION 10 14 00 AND SIGNAGE<br>DRAWINGS FOR TYPES AND LOCATIONS. |   | S.E.D. Control   |
|  |  |  |  |   | Tetra Tech Enginee                                     |
|  |  |  |  | _ | & Landscape Archit                                     |
|  |  |  |  | Γ |  |
|  |  |  |  | _ | Wallkill Cen<br>Wallkill, Nev                          |
|  |  |  |  | Μ | Reconstruct<br>Plattekill Ele                          |
|  |  |  |  | _ | Code Comp  |
|  |  |  |  |   | 4  |









LICENSED ASBESTOS ABATEMENT CONTRACTOR RESPONSIBLE FOR TOTAL AND COMPLETE REMOVAL AND DISPOSAL OF APPROXIMATELY 150 SF NON-FRIABLE ASBESTOS-CONTAINING FLOOR TILE ON ACM MASTIC TO THE SUBSTRATE(S). THE LAYERING SYSTEMS IS AS FOLLOWS, FROM THE TOP, CARPET, FLOOR FILLER, ACM FLOOR TILE ON ACM MASTIC, ON CONCRETE. ASBESTOS ABATEMENT CONTRACTOR TO PERFORM REMOVALS UTILIZING MANUAL, WET METHODS TO ENSURE TOTAL AND COMPLETE REMOVAL OF LIMITED EXISTING FLOOR TILE SYSTEMS, INCLUDING ALL ASSOCIATED LAYERS, FILLERS, WOOD ETC. TO BUILDING SUBSTRATE(S). SUBSEQUENT TO FINAL AIR CLEARANCES, THE SUBSTRATE(S) SHALL BE WASHED WITH A NEUTRALIZING AGENT TO PREPARE THE SUBSTRATE TO ACCEPT NEW COVERINGS/FINISH AS WELL AS ELIMINATE

ASBESTOS ABATEMENT NOTES

LICENSED ASBESTOS ABATEMENT CONTRACTOR RESPONSIBLE FOR TOTAL AND COMPLETE REMOVAL AND DISPOSAL OF APPROXIMATELY 150LF HVAC DUCTWORK FROM THE CORRIDOR/STAGE/LIBRARY. THE DUCTWORK IS ABOVE SUSPENDED CEILING IN THE CORRIDOR, NO CEILINGS IN THE STAGE AREA, ABOVE SUSPENDED CEILING AND SHEETROCK CEILINGS IN THE LIBRARY. THERE ARE APPROXIMATELY 40 CONNECTION SEAMS WITH APPROXIMATELY 8LF PER SEAM OF NON-FRIABLE ASBESTOS-CONTAINING DUCT SEALANT ON THE METAL DUCT. ASBESTOS ABATEMENT CONTRACTOR TO PERFORM REMOVALS UTILIZING MANUAL, WET METHODS TO ENSURE TOTAL AND COMPLETE REMOVAL OF THE DUCT WORK WITH ACM DUCT SEALANT, INCLUDING ALL ASSOCIATED HANGERS. THE ABATEMENT CONTRACTOR WILL BE REQUIRED TO LEAVE A STRAIGHT CLEAN CUT FOR THE HVAC CONTRACTOR TO CONNECT NEW DUCT OR CAPS AS REQUIRED BY THE MECHANICAL DRAWINGS.

REFER TO SPECIFICATION SECTION 02 08 00 - SECTION 3.17 FOR A DESCRIPTION OF THE WORK.





|   | Key P                            |
|---|----------------------------------|
| S.E.D. Co   | ontrol N                         |
|   |                                  |
| R<br>R<br>R<br>R<br>R<br>R<br>R<br>R<br>R<br>R<br>R<br>R<br>R<br>R<br>R<br>R<br>R<br>R<br>R | CE                               |
| Quality<br>Techn<br>1298 NY3  | y Enviro<br>ologies<br>S Route 9 |

Drawn By: Date: 11/4/2022 AM/LG Project No.: 17597-22001





PLATTEKILL ELEMENTARY SCHOOL – RECONSTRUCTION

LICENSED ASBESTOS ABATEMENT CONTRACTOR RESPONSIBLE FOR TOTAL AND COMPLETE REMOVAL AND DISPOSAL OF APPROXIMATELY 90LF HVAC DUCTWORK FROM THE CORRIDOR/STAGE/LIBRARY. THE DUCTWORK IS ABOVE SUSPENDED CEILING IN THE CORRIDOR, NO CEILINGS IN THE STAGE AREA, ABOVE SUSPENDED CEILING AND SHEETROCK CEILINGS IN THE LIBRARY. THERE ARE APPROXIMATELY 40 CONNECTION SEAMS WITH APPROXIMATELY 8LF PER SEAM OF NON-FRIABLE ASBESTOS-CONTAINING DUCT SEALANT ON THE METAL DUCT. ASBESTOS ABATEMENT CONTRACTOR TO PERFORM REMOVALS UTILIZING MANUAL, WET METHODS TO ENSURE TOTAL AND COMPLETE REMOVAL OF THE DUCT WORK WITH ACM DUCT SEALANT, INCLUDING ALL ASSOCIATED HANGERS. THE ABATEMENT CONTRACTOR WILL BE REQUIRED TO LEAVE A STRAIGHT CLEAN CUT FOR THE HVAC CONTRACTOR TO CONNECT NEW DUCT OR CAPS AS REQUIRED BY THE MECHANICAL DRAWINGS.

REFER TO SPECIFICATION SECTION 02 08 00 - SECTION 3.17 FOR A DESCRIPTION OF THE WORK.

### ASBESTOS ABATEMENT NOTES

LICENSED ASBESTOS ABATEMENT CONTRACTOR RESPONSIBLE TO CUT DUCTWORK BACK TO A CLEAN LOCATION SO HVAC CONTRACTOR CAN CAP THE ABANDONED DUCT WITHOUT DISTURBING ASBESTOS.







N.T.S.









- Wallkill, New York
- Reconstruction to:
- Roof Plan
- 17597-22001





| 14 | 15            | 16 17   | _        |
|----|---------------|---|----------|
|    | Der           | molition Key Notes  | <u>G</u> |
|    | (1G)          | REMOVE INTERIOR PARTITION FULL-HEIGHT, PORTION AS<br>INDICATED OR AS REQUIRED TO PERFORM SCHEDULED WORK.<br>EXISTING STRUCTURE TO REMAIN.   | А.<br>В. |
|    | (1H)          | SAW CUT OPENING IN WALL TO EXTENT REQUIRED TO PERFORM<br>SCHEDULED WORK. PROVIDE LINTEL PER LINTEL SCHEDULE.<br>PATCH EXPOSED SURFACES TO MATCH ADJACENT FINISHES /<br>SURFACES.  |          |
|    | (1N)          | ARTWORK/PLAQUES TO REMAIN - DO <u>NOT</u> DAMAGE. REMOVAL<br>BY OWNER.  | 1        |
|    | ( <b>1M</b> ) | REMOVE EXISTING DIFIBRILATOR CABINET. PROTECT AND STORE FOR REINSTALLATION.   |          |
|    |               | MODIFY WALL AS REQUIRED TO ACCOMMODATE NEW STRUCTUR, ℜ<br>STEEL ROOF REINFORCING. COORDINATE DETAILS AND LOCATIONS<br>WITH STRUCTURAL DRAWINGS. PATCH WALLS TO MATCH EXISTING<br>CONSTRUCTION/FINISHES.   | C.       |
|    | (8A)          | REMOVE STOREFRONT SYSTEM COMPLETELY. PREPARE<br>OPENING TO EXTENT REQUIRED TO PERFORM SCHEDULED<br>WORK. PATCH EXPOSED SURFACES TO MATCH ADJACENT<br>FINISHES / SURFACES. PROTECT AND DELIVER TO OWNER'S<br>STORAGE LOCATION FOR THEIR RE-USE.  | - D.     |
|    | (8B)          | REMOVE WINDOW SYSTEM COMPLETELY. PREPARE OPENING<br>TO EXTENT REQUIRED TO PERFORM SCHEDULED WORK.<br>PATCH EXPOSED SURFACES TO MATCH ADJACENT FINISHES / O<br>SURFACES.   |          |
|    | (8C)          | REMOVE DOOR AND FRAME COMPLETELY. PATCH EXPOSED SURFACES TO MATCH ADJACENT FINISHES / SURFACES.   |          |
|    | (8F)          | REMOVE DOOR LOCKSET AND ASSOCIATED HARDWARE IN<br>PREPARATION FOR NEW LEVERSET AND LOCKDOWN HARDWARE.<br>REFER TO DOOR HARDWARE SCHEDULE FOR NEW HARDWARE AND<br>TO COORDINATE REQUIRED REMOVALS TO FACILITATE NEW<br>HARDWARE INSTALLATION.  | -        |
|    | Ae            | REMOVE CEILING SYSTEM AND/OR SOFFIT SYSTEM IN ITS $\hfill \square$ ENTIRETY.  |          |
|    | (9B)          | REMOVE CEILING SYSTEM AND.OR SOFFIT SYSTEM IN ITS ENTIRETY<br>INCLUDING CONCEALED CEILING AND SHEATHING LAYER ATTACHED<br>TO BOTTOM OF STRUCTURE.   | 1        |
|    | ( <b>9</b> C) | REMOVE CEILING SYSTEM AS REQUIRED TO PERFORM SCHEDULED-<br>WORK. SALVAGE CEILING SYSTEM FOR REINSTALLATION IN<br>ORIGINAL LOCATION.   | -        |
|    | QD.x          | REMOVE FLOOR FINISH, MASTIC AND WALL BASE TO EXTENT<br>REQUIRED TO PERFORM SCHEDULED WORK. AT ALL AREAS OF<br>FLOOR REMOVAL, LEVEL SLAB WITH ADJACENT SLABS AT<br>LOCATIONS SCHEDULED TO RECEIVE FLOOR FINISH. INCLUDE<br>CONCRETE FLOOR PATCHING AND LEVELING MATERIALS TO MAKE<br>SURFACE LEVEL. PREPARE FOR FINISH. PATCH AREAS OF WALLS<br>TO REMAIN THAT WERE DAMAGED BY REMOVAL OF WALL BASE. |          |
|    |               | SUFFIX KEY (FLOOR FINISH IDENTIFICATIONS):<br>I. VAT/VCT. –   | 4        |
|    | (12B)         | REMOVE DISPLAY CASEWORK (INCLUDING ALL ASSOCIATED<br>COMPONENTS). PATCH EXPOSED SURFACES TO MATCH ADJACENT<br>FINISHES / SURFACES. PROTECT AND DELIVER TO OWNER'S<br>STORAGE LOCATION FOR THEIR RE-USE.   |          |





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| <u>De</u> | <u>molition K</u>  | Key Notes  | <u>5</u>  |  |  | Gen                    | era                         |
| (1G)      | REMOVE INTERI<br>INDICATED OR A<br>EXISTING STRU   | OR PARTITION F<br>AS REQUIRED TO<br>CTURE TO REMA  | FULL-HEIGHT, F<br>D PERFORM SC<br>AIN.  | PORTION AS<br>HEDULED WO   | RK. ∢  | А. <b>– –</b><br>В. КЕ | YED                         |
| (1H)      | SAW CUT OPEN<br>SCHEDULED WO<br>PATCH EXPOSE<br>SURFACES.  | ING IN WALL TO<br>DRK. PROVIDE L<br>D SURFACES TO  | EXTENT REQU<br>INTEL PER LIN<br>MATCH ADJA  | IRED TO PERFI<br>TEL SCHEDULE<br>CENT FINISHES   | ORM<br>E.<br>S /                               | 1.<br>SP<br>SA         | DE<br>DE<br>ACE F<br>ME T   |
| (1N)      | ARTWORK/PLAC<br>BY OWNER.  | QUES TO REMAIN   | N - DO <u>NOT</u> DAN   | MAGE. REMOV  | AL   | 2.<br>AD               | DE                          |
| (1M)      | REMOVE EXISTI<br>FOR REINSTALL   | NG DIFIBRILATO<br>ATION.   | R CABINET. PF   | ROTECT AND S   | TORE   | SP<br>SP               |                             |
|           | MODIFY WALL A<br>STEEL ROOF RE<br>WITH STRUCTUR<br>CONSTRUCTION  | s required to<br>Einforcing. Co<br>Ral Drawings.<br>I/Finishes.  | ACCOMMODA<br>OORDINATE DE<br>PATCH WALL   | TE NEW STRUC<br>TAILS AND LOC<br>S TO MATCH E  | CTUR≁ಱ<br>CATIONS<br>XISTING                   | 3.<br><u>AL</u><br>SP  | DE<br><u>L</u> THC<br>ACE I |
| (8A)      | REMOVE STORE<br>OPENING TO EX<br>WORK. PATCH I<br>FINISHES / SUR<br>STORAGE LOCA                                 | EFRONT SYSTEM<br>TENT REQUIRED<br>EXPOSED SURF<br>FACES. PROTE<br>TION FOR THEIF                                       | I COMPLETELY<br>D TO PERFORM<br>ACES TO MATC<br>CT AND DELIVE<br>R RE-USE.                                      | 7. PREPARE<br>I SCHEDULED<br>3H ADJACENT<br>3R TO OWNER'S  | -  | D. AL                  | L ART<br>NSTF<br>NSTF       |
| (8B)      | REMOVE WINDO<br>TO EXTENT REG<br>PATCH EXPOSE<br>SURFACES.   | OW SYSTEM CON<br>QUIRED TO PERF<br>D SURFACES TO   | MPLETELY. PR<br>ORM SCHEDU<br>MATCH ADJA  | EPARE OPENIN<br>LED WORK.<br>CENT FINISHES   | IG<br>S/ ပ                                     | OF                     | DEM                         |
| 8C)       | REMOVE DOOR<br>SURFACES TO M   | AND FRAME CO<br>MATCH ADJACEN  | MPLETELY. PA  | TCH EXPOSED<br>URFACES.  | )  |                        |                             |
| (8F)      | REMOVE DOOR<br>PREPARATION F<br>REFER TO DOOI<br>TO COORDINATI<br>HARDWARE INS                                   | LOCKSET AND A<br>FOR NEW LEVER<br>R HARDWARE S<br>E REQUIRED RE<br>TALLATION.  | ASSOCIATED H<br>SET AND LOCH<br>CHEDULE FOR<br>MOVALS TO FA   | ARDWARE IN<br>(DOWN HARDV<br>NEW HARDWA<br>(CILITATE NEW   | VARE.<br>RE AND                                |                        |                             |
| 9A)       | REMOVE CEILIN<br>ENTIRETY.   | G SYSTEM AND/  | OR SOFFIT SYS   | STEM IN ITS  | Ω  |                        |                             |
| 9B)       | REMOVE CEILIN<br>INCLUDING CON<br>TO BOTTOM OF   | G SYSTEM AND.<br>ICEALED CEILIN<br>STRUCTURE.  | OR SOFFIT SYS<br>G AND SHEATH   | STEM IN ITS EN<br>IING LAYER AT  | ITIRETY<br>TACHED                              |                        |                             |
| 9C)       | REMOVE CEILIN<br>WORK. SALVAG<br>ORIGINAL LOCA   | G SYSTEM AS R<br>SE CEILING SYST<br>TION.  | Equired to P<br>Em for Reins  | ERFORM SCHE  | EDULED-  |                        |                             |
| 9D.X      | REMOVE FLOOF<br>REQUIRED TO P<br>FLOOR REMOVA<br>LOCATIONS SCH<br>CONCRETE FLO<br>SURFACE LEVEN<br>TO REMAIN THA | R FINISH, MASTIC<br>PERFORM SCHEI<br>AL, LEVEL SLAB<br>HEDULED TO RE<br>OR PATCHING A<br>L. PREPARE FO<br>T WERE DAMAG | C AND WALL BA<br>DULED WORK.<br>WITH ADJACEN<br>CEIVE FLOOR I<br>ND LEVELING I<br>R FINISH. PATO<br>ED BY REMOV | SE TO EXTENT<br>AT ALL AREAS<br>T SLABS AT<br>FINISH. INCLUE<br>MATERIALS TO<br>CH AREAS OF<br>AL OF WALL BA | OF<br>DE <sup>W</sup><br>MAKE<br>WALLS<br>ASE. |                        |                             |
|           | SUFFIX KEY (FLC<br>I. VAT/   | <u>OOR FINISH IDEN</u><br>VCT.   | NTIFICATIONS):  |  | _  |                        |                             |
| (12B)     | REMOVE DISPLA<br>COMPONENTS).<br>FINISHES / SURF<br>STORAGE LOCA   | AY CASEWORK (<br>PATCH EXPOS<br>FACES. PROTEC<br>TION FOR THEIF  | INCLUDING ALI<br>ED SURFACES<br>CT AND DELIVE<br>R RE-USE.  | _ ASSOCIATED<br>TO MATCH AD,<br>R TO OWNER'S   | JACENT   |                        |                             |
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| WIDTH                    | HEIGHT             | RATING      | GLAZING         | HEAD                             | JAMB                | SILL    | SET      | REMARKS             |
| - 4"                     | 7' - 4"            | -           | -               |                                  |                     |         | P1       | NOTE 2              |
| - 4"                     | 7' - 4"            | -           | -               |                                  |                     |         | P1       | NOTE 2              |
| - 4"                     | 7' - 4"            | -           | -               |                                  |                     |         | P1       | NOTE 2              |
| - 4"                     | 7' - 4"            | _           | _               |                                  |                     |         | P1       | NOTE 2              |
| - 4"                     | 7' - 4"            | -           | -               |                                  |                     |         | P1       | NOTE 2              |
| - 4"                     | 7' - 4"            | -           | -               |                                  |                     |         | P1       | NOTE 2              |
| - 4"                     | 7' - 4"            | -           | -               |                                  |                     |         | P1       | NOTE 2              |
| - 4"<br>- 4"             | 7' - 4"            | -           | -               |                                  |                     |         | P1<br>P1 | NOTE 2              |
| - 4"                     | 7' - 4"            | -           | -               |                                  |                     |         | P1       | NOTE 2              |
| - 4"                     | 7' - 4"            | -           | -               |                                  |                     |         | P3       |                     |
| - 4"                     | 7' - 4"            | -           | -               |                                  |                     |         | P3       | NOTE 2              |
| - 4<br>- 4"              | 7' - 4"            | -           | -               |                                  |                     |         | P1<br>P2 | NOTE 2              |
| - 4"                     | 7' - 4"            | -           | -               |                                  |                     |         | P2       | NOTE 2              |
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| - 4"                     | 7' - 4"            | -           | -               |                                  |                     |         | P1       | NOTE 2              |
| - 4"                     | 7'-4               | -<br>20 MIN | -               | H14                              | J14                 |         | P1<br>P5 | NOTE 2<br>NOTE 3    |
| - 0"                     | 4' - 0"            | 45 MIN      | FPC             | J13 SIM                          | J13                 | J13 SIM |          | HOLLOW METAL WINDOW |
| - 4"                     | 7' - 4"            | -           | -               |                                  |                     |         | P1       | NOTE 2              |
| - 4"<br>- 4"             | 7' - 4"<br>7' - 4" | -           | -               |                                  |                     |         | P1       | NOTE 2              |
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| - 4"                     | 7' - 4"            | -           | -               |                                  |                     |         | P2       | NOTE 2              |
| - 4"                     | 7' - 4"            | -           | -               |                                  |                     |         | P1       | NOTE 2              |
| - 4"<br>- 4"             | 7' - 4"<br>7' - 4" | -           | -               |                                  |                     |         | P1       | NOTE 2              |
| - <del></del><br>4' - 0" | 7' - 4"            | -<br>20 MIN | FPC             | J2                               | J2                  |         | P5       | NOTE 2              |
| 2' - 10"                 | 8' - 8"            | -           | FCE/SCL         | 9/DA600                          | 6/DA600             |         | P8       | NOTE 1, NOTE 3      |
| 3' - 0"                  | 8' - 8"            | -           | SCL             | 7/DA600                          | 10/DA600            |         | P7       | NOTE 3              |
| TE 3:RF<br>3' - 0" اندا  | EFER TO SECU       |             | TS FOR ADDITION | ONAL <sup>A600</sup><br>∣7/DA600 | 0/DA600<br>10/DA600 |         | P10      | NOTE 1, NOTE 3      |
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**EXISTING EXTERIOR WALL** 

CONSTRUCTION, VIF

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



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| FOF<br>SEC | R ALL CONTRACTOR RESPONS<br>CTION 01 10 00/01 12 00.   | SIBILITIES REFER TO SPECIFICAT   | ION                            |             | INISH PROD<br>RACT SPEC   | UCTS ARE  | TO BE INSTALLED I<br>AND MANUFACTUR  | N ACCORDANCE WITH<br>ES INSTRUCTIONS. REFER   | A |  |
| A.         | THE CASEWORK SHOWN ON<br>KEWAUNEE SCIENTIFIC WOO<br>PROJECT MANUAL, SECTION<br>SPECIFICATIONS  | N THE DRAWINGS IS BASED ON<br>OD CASEWORK. REFER TO THE<br>N 12 32 13 FOR DETAILED   |                                | ON IN<br>A. | ALL PAINTS  |   | FIED MATERIALS,  |   |   |  |
| B.         | ALL STANDARD CASEWORK<br>CORRESPOND WITH THE DII<br>DRAWINGS. FIELD VERIFY A   | E DIMENSIONS TO BE MODIFIED T<br>MENSIONS NOTED ON THE<br>LL DIMENSIONS PRIOR TO   | го                             | B.          | ALL EXPOS<br>PIPING AND<br>EQUIPMEN   | ED STRUCT<br>FIREPROC<br>FARE TO BI   | URES, INCLUDING<br>FING, CONDUIT, AI<br>E PAINTED.   | BUT NOT LIMITED TO<br>ND ALL ASSOCIATED   | _ |  |
| C.         | MODEL NUMBERS LISTED O<br>SHOWN. PROVIDE OPPOSITI  | N DRAWINGS APPLY TO ELEVAT<br>E HAND MODELS WHERE SHOW   | TIONS<br>'N.                   | C.<br>INCLU | APPLY PAIN<br>INDICATED<br>JDING BUT A  | IT TO BOTH<br>WITH A FIN<br>ARE NOT LIN   | NEW AND EXISTIN<br>ISH BOX AND/OR N<br>MITED TO:   | G ITEMS IN ALL AREAS<br>OTES - THESE ITEMS ARE  |   |  |
| D.         | PROVIDE FULL DEPTH SHEL<br>CABINETS, UNLESS NOTED  | VES AT BASE, WALL AND TALL<br>OTHERWISE.   |                                |             | - FEC 'S, LA<br>GLAZING FF<br>STAIR PART  | DDERS, BE<br>RAMES IN D   | AMS, DOOR/FRAM<br>OOR/WALLS- BOTH<br>NG RAILINGS, HANI   | ES - BOTH SIDES<br>I SIDES, ALL EXPOSED<br>O AND GUARD RAILS,   | B |  |
| E.         | BASE AND TALL CABINETS A<br>CABINETS ARE 14 INCHES D<br>DOES NOT INCLUDE 1" COUI   | ARE 22 INCHES DEEP. U.N.O. WA<br>DEEP, UNO BASE CABINET DEPTH<br>NTERTOP OVERHANG, TYP.  | LL<br>H                        | D.          | ACCENT CO   | FOR FLOOF   | RSIDES OF STAIR  | E AS SHOWN ON   |   |  |
| F.         | PROVIDE FINISHED ENDS, B.<br>FINISHED FILLER PANELS OF<br>NOT TO EXCEED 3" WIDE, UP<br>TOP AND BOTTOM FILLER P<br>SUBMIT SHOP DRAWINGS SE<br>CONDITIONS. | ACK EXTENSIONS, SCRIBES AND<br>N ALL CABINETS. FILLER PANEL<br>NLESS NOTED OTHERWISE. PRO<br>PANELS AT ALL BASE & WALL UN<br>HOWING DETAILS OF THESE | )<br>S ARE<br>)VIDE<br>ITS.    |             | DRAWINGS<br>DRAWINGS<br>INCLUDING<br>CENTERED<br>REQUIRMEI<br>- CERAMIC<br>- TERRAZZO<br>- CARPET | INCLUDING<br>SHOWING<br>EDGES ANI<br>IN EACH RC<br>NTS ARE TC<br>TILE, BOTH<br>O AND BASE | GALL ACCENT LOC.<br>DETAILED LAYOUT<br>D TRANSITIONS, AL<br>DOM UNO - TYP AL<br>D INCLUDE BUT NO<br>I WALL AND FLOOF | ATIONS. SUBMIT SHOP<br>S OF EACH AREA,<br>.L LAYOUTS ARE TO BE<br>.L DRAWINGS. ABOVE<br>T LIMITED TO: | υ |  |
| G.         | ALL COUNTERTOPS TO BE S<br>UNLESS NOTED OTHERWISE<br>DO NOT PROVIDE BACKSPL/<br>OTHERWISE. PROVIDE CAUL<br>EDGE AT LOUVER LOCATION                       | SOLID SURFACE WITH A RADIUS<br>E. BACKSPLASHES TO BE 4" HIG<br>ASHES AT UV WALL UNLESS NO<br>LK AT ALL JOINTS PROVIDE MAF<br>NS, TYP.                | EDGE<br>H, TYP.<br>TED<br>RINE | E.          | - LVT<br>- RUBBER<br>FIELD AND<br>CONTRACT  | ACCENT PA<br>OR IS TO AS  | NINT AS SHOWN ON   | I DRAWINGS<br>AND ACCENT COLORS   |   |  |
| H.         | RADIUS COUNTERTOPS AT S<br>MEETING TALL SHELVING UN<br>COUNTERTOP DEPTH. RADI<br>OTHERWISE. REFER TO DET   | SOLID SURFACE COUNTERTOPS<br>NITS WITH A DEPTH LESS THAN<br>US TO BE 1-1/2" UNLESS NOTED<br>FAIL 9/EA900.  | S ENDS                         |             | ARE DIFFEF<br>ROOM, REG<br>TO:<br>- WALL, FIE<br>- WALL, ACC                                      | RENT ROOM<br>QUIREMENT<br>LD COLOR<br>CENT COLO   | 1 TO ROOM. AS WE<br>S ARE TO INCLUDE<br>R  | LL AS WITHIN EACH<br>BUT ARE NOT LIMITED  |   |  |
| J.         | PROVIDE COUNTERTOP CU<br>AND/OR GAS COCKS, COOR<br>CONTRACTORS.  | T-OUTS FOR SINK, FAUCETS, AIF<br>DINATE WITH ALL REQUIRED  | 2                              |             | - CEILING C<br>- SOFFITS,<br>- DOOR ANI<br>- EXPOSED  | LOUDS, AC<br>ACCENT CO<br>WINDOW<br>COLUMNS,  | CENT COLOR<br>DLOR<br>FRAMES, ACCENT<br>ACCENT COLOR   | COLOR   | Ω |  |
| K.         | PROVIDE CUTS AT ALL CON<br>COUNTERTOPS/CABINETS: \$  | DITIONS THAT INTERFERE WITH<br>SCRIBE TO FIT.  |                                |             | - GUARDRA<br>- HANDRAIL<br>- EXPOSED<br>- EXPOSED   | ILS, ACCEN<br>S, ACCENT<br>DECKS, AC  | IT COLOR<br>COLOR<br>CENT COLOR<br>CENT COLOR  |   |   |  |
| L.         | PROVIDE AT ALL UV SHELVI<br>IN CABINETS AT PLUMBING A<br>VERIFY POSITIONS OF VALV  | ING LOCATIONS-REMOVABLE BA<br>AND FIN TUBE VALVE LOCATION<br>'ES PRIOR TO SHOP FABRICATION   | ACKS<br>NS.<br>ON OF           | F.          | - EXPOSED<br>PAINT MEC  | DUCTWOR   | COLOR COLOR  | S CAUTION YELLOW.   | - |  |
| M.         | PROVIDE SHOP DRAWINGS  | SHOWING LOCATIONS AND DET  | IALS                           | G.          | PROVIDE PA  | AINT AT ALL<br>ANS FOR AI   | NEW SOFFITS, RE  | FER TO REFLECTIVE   |   |  |
|            | FOR ALL GRILLES, LOUVERS<br>LOCATIONS ECT. ASSOCIATI<br>WITH ALL REQUIRED CONTR  | S, REMOVABLE PANELS, VALVE<br>ED WITH CASEWORK COORDINA<br>RACTORS.  | ATE                            | H.          | ALL EXPOS<br>UNPAINTED  | ed Brick, (<br>), UNO.  | GROUND FACE BLC  | OCK IS TO REMAIN  | ш |  |
| N.         | PROVIDE CABINETS WITH FI<br>LIMITED TO, LOCATIONS OF<br>WITH A DEPTH LESS THAN C   | INISHED SIDES, INCLUDING BUT<br>ADJACENT CABINETS OR EQUIF<br>CABINET OR EQUIPMENT.  | NOT<br>PMENT                   | J.          | CONFIRM W<br>OVER MUR   | ALS ON EXIS   | R AND ARCHITECT<br>STING SURFACES.   | PRIOR TO PAINTING   |   |  |
| P.         | PROVIDE ALL STANDARD FE<br>INDICATED BY MODEL NUME<br>DETAILS AND ELEVATIONS,  | EATURES OF CASEWORK UNITS<br>BER OR AS SHOWN ON PLANS,<br>INCLUDED BUT NOT LIMITED TO  | AS<br>:                        | K.<br>L.    | PROVIDE P   | AINT AND R  | UBBER BASE AT A  | L NEW CHASES, REFER   |   |  |
| Q.         | PROVIDE BLOCKING AT NEW<br>WALLS PER MANUFACTURE   | V AND EXISTING GYPSUM BOARI<br>R RECOMMENDATIONS FOR SU  | D<br>PPORT                     | M.          | REFER TO S  | ORK PLANS<br>STRUCTUR/<br>INS. REFER  | FOR ADDITIONAL I<br>AL DRAWINGS FOR<br>TO FINISH MATER   | LOCATIONS.<br>LOCATIONS OF SLAB   | щ |  |
| R.         | OF WALL /TALL MOUNTED U<br>SECTION 06 10 00 FOR WOO<br>PROVIDE LOCKS AT ALL CAS  | NITS. REFER TO SPECIFICATION<br>D BLOCKING RESPONSIBILITIES<br>SEWORK DOORS/DRAWERS AN   | I<br>S.<br>D.FILE              | N.          | REFER TO S  | FOR SLAB D  | DEPRESSION DEPT  | H REQUIREMENTS.   |   |  |
| S.         | UNITS TYP.<br>PROVIDE AS NOTED ON DRA  | AWINGS AND DETAILS: 2" GROMI   | METS                           | P.          | SECTIONS I  | FOR SLAB D  | DEPRESSION DEPT  | ER ALL FURNITURE,   | _ |  |
| т          | AT OPEN BASE COUNTERS (<br>BOARD TRAYS AND CABLE T<br>PROVIDE ALL CUTOUTS AS (   | 30"/36" OC, WIRE MANAGEMENT,<br>IRAYS.<br>SHOWN ON CASEWORK PLANS  | AND                            | 0           | MOVEABLE<br>INCLUDING   | EQUIPMEN  | T AND LIBRARY SH<br>AT THE PERIMETEI   | IELVING UNITS,<br>R WALLS.  |   |  |
|            | ELEVATIONS OR AS REQUIR<br>NOT LIMITED TO: ALL ELEC E<br>WIRING AND FINAL HOOK-UF  | RED. CUTOUTS ARE TO INCLUDE<br>BOXES, OUTLETS, AND ASSOCIA<br>P.   | BUT<br>ATED                    | Q.          | PROTECT A<br>NOT LIMITE<br>SHADES/BL  | ND REINST<br>D TO: BOAF<br>INDS, BOOF   | ALL MOVABLE EQU<br>DUNITS, LOCKER<br>CASES ETC. REIN   | JIPMENT INCLUDING BUT<br>S GYM EQUIPMENT,<br>ISTALL IN ORIGINAL                                       | G |  |
| U.         | PROVIDE REMOVABLE BACK<br>INCLUDING ADA FUMEHOOD   | K PANELS AT ALL SINK BASE CA<br>DS, EYEWASHAND SAFETY STAT   | ABINETS,<br>IONS.              |             | OWNER. RE<br>PROJECT P  | FER TO SP<br>ROCEDURE   | ED ON DRAWINGS<br>EC SECTION O1 23<br>ES FOR MORE INFO   | , COORDINATE WITH<br>00 ALTERATION<br>DRMATION.   |   |  |
| V.         | REFER TO BOTH 1/8" AND 1/4   | 4" PLANS FOR LAYOUTS.  |                                | R.          | FIELD VERI  |   | ITROL JOINTS LOC.  | ATIONS IN CONCRETE  | _ |  |
| Q.         | REFER TO SPECIFICATION S   | SECTION 01 23 00 FOR ADDITION,<br>CASEWORK ALTERNATES.   | AL                             |             | MATERIAL I<br>BY FLOORIN<br>- AT NEW S  | DIRECTLY A  | BOVE SLAB JOINTS<br>AL MANUFACTURE<br>R TO STRUCTURAL  | S OR AS RECOMMENDED<br>R.<br>DRAWINGS FOR SLAB  |   |  |
| <u>Si</u>  | <u>gnage Notes</u>   |  |                                |             | CONTROL<br>- AT EXISTIN<br>SLAB CONT  | JOINT LOCA  | ATIONS.<br>FIELD VERIFY LOCA<br>S.   | ATIONS OF EXISTING  | т |  |
| Α.         | ALL ROOM NAMES AND NUM<br>SUPPLIER TO VERIFY WITH S<br>CONSTRUCTION PHASE, PRIC<br>FINAL ROOM NAMES AND NU   | BERS ARE SUBJECT TO CHANG<br>CHOOL DISTRICT DURING<br>OR TO SUBMITTAL PHASE, FOR<br>IMBERS.  | Ε,                             |             | FLOOR MA<br>COORDINA<br>SUBMISSIO   | TERIALS.<br>TERIALS.<br>TE FLOOR F<br>N OF REQU   | PATTERNS WITH CO   | ONTROL JOINT PRIOR TO<br>ERN DRAWINGS.  |   |  |
| В.         | ALL PERMANENT ROOMS TO<br>SYSTEM CONTAINING BOTH   | RECEIVE ROOM IDENTIFICATIOI<br>TEXT AND ROOM NUMBERS.  | N                              | S.          | PROVIDE A<br>AND/OR AS  | LL FINISHES   | S AS INDICATED BY<br>DRAWINGS.   | ROOM FINISH BOX   | 4 |  |
| C          | PROVIDE BARRIER-FREE AND<br>LOCATIONS REQUIRED BY CO   | D TACTILE SIGNAGE AT ALL<br>ODE AND AS SHOWN ON THE  |                                |             |   |   |  |   |   |  |

ARCHITECTURAL DRAWINGS. D. COORDINATE MOUNTING HEIGHTS AS PER CABO/ANSI A117.1 AND

AS PER MANUFACTURER'S RECOMMENDATIONS. E. ALL COLORS TO BE ISSUED DURING CONSTRUCTION.

PROVIDE SIGNS AS PER SIGNAGE SCHEDULE AS REQUIRED BY CODE AND SIGNAGE DRAWING.

G. REFER TO SPECIFICATIONS SECTION 10 14 00 FOR MORE INFORMATION.

| S.E.D. Control No. 62-7  | 18-01-06-0-005-015 |
|--|--------------------|
|  |                    |
|  |                    |
| Rev. No.: Date: Description:                                     |                    |
| Established 1938   | SCHOOL DISTRICT    |
| complex world<br>CLEAR SOLUTIONS                                 | SE                 |
| Tetra Tech Engineers, Architects<br>& Landscape Architects, P.C. | BIL                |
|  | RATECH             |
| Wallkill Central Schoo<br>Wallkill, New York                     | ol District        |
| Reconstruction to:<br>Plattekill Elementary                      | School             |
| Interior Elevations, Do  | etails and Signage |
| Drawn By: Date:<br>TTAE 11/4/2022                                | Drawing Number:    |
| Project No.:<br>17597-22001                                      | DA900              |



| MEAN ROOF<br>HEIGHT, "h"<br>(FT)<br>21.00<br>NOTES:<br>1. MEAN ROOF F<br>2. REFER TO AS(<br>DETERMINE 0.6h<br>3. THESE TABLES<br>EXTERIOR WALL<br>VENEER TIES, W<br>4. FOR EFFECTIVE<br>EFFECTIVE WINE<br>5. POSITIVE PRE | EFFECTIVE<br>WIND AREA<br>(SQ FT)<br>≤ 10<br>20<br>50<br>100<br>≥ 500<br>HEIGHT IS MEA<br>SCE 7-16 FOR D<br>Sh AND 0.2h.<br>ES ARE TO BE U<br>LL ASSEMBLY. I<br>WINDOWS, AND<br>IVE WIND AREA   | ZONE 1'<br>MIDDLE INTERIOR<br>-30.8 16.0<br>-30.8 16.0<br>-30.8 16.0<br>-30.8 16.0<br>-30.8 16.0<br>-20.9 16.0<br>ASURED ABOVE DA<br>DEFINITION OF TERI<br>USED FOR WIND LC<br>EXAMPLES OF COM<br>D THEIR ATTACHME<br>A VALUES LISTED IN  | ZONE 1         INTERIOR         -53.7       16.0         -50.1       16.0         -45.5       16.0         -41.9       16.0         -33.7       16.0         MS. FOR THE DIMENTS       16.0         DAD CONTRIBUTION       16.0         MONENTS AND CLANTS       16.0  | ROOF           ZONE 1/1'           OVERHANG         EDGE           -48.5         -70.8           -47.7         -66.3           -46.5         -60.2           -45.7         -55.7           -31.4         -45.1   | VIND PRE<br>ZONE 2<br>OVERHANG<br>-65.7<br>-59.6<br>-51.6<br>-45.5<br>-31.4  | SSURE (         CORNER       OV         -96.5       -         -87.4       -         -75.4       -         -66.3       -         -45.1       -         URE 30.4-1 IN AS       -         ONENT OR CLAIR       -   | PSF) 3 ERHANG -91.4 -3 -80.7 -56.7 -56.1 -3 -31.4 -3 SCE 7-16 AND I  | WA<br>ZONE 4<br>INTERIOR<br>33.4 30.8<br>32.0 29.5<br>30.2 27.7<br>28.9 26.3<br>25.7 23.1<br>JSE "h" FROM A   | ALLS<br>ZONE<br>CORN<br>-41.1<br>-38.4<br>-34.8<br>-32.0<br>-25.7<br>BOVE TABLE   | E 5<br>JER<br>30.8<br>29.5<br>27.7<br>26.3<br>23.1<br>E TO   | A. <u>ROOF LIVE LOAD</u><br>MINIMUM ROOF LIVE LOAD<br>B. <u>RAIN LOADS</u> PER<br>RAIN INTENSITY, i<br>RAIN SURCHARGE LOAD<br>IN ACCORDANCE WITH B<br>C. <u>SNOW LOADS</u> PE<br>GROUND SNOW, Pg (FIGU<br>FLAT ROOF SNOW LOAD<br>SNOW EXPOSURE FACTO<br>THERMAL FACTOR, Ct<br>SLOPE FACTOR, C<br>SNOW LOAD IMPORTANC<br>DRIFT SURCHARGE, Pd<br>DRIFT A<br>DRIFT B  | S PER BCNYS 1607.13<br>AD<br>BCNYS 1611<br>HAS BEEN APPLIED TO AREAS<br>CONYS 1611.1.<br>R BCNYS 1608<br>JRE 1608.2)<br>, $P_f$ (ASCE 7)<br>DR, $C_e$<br>CE FACTOR, Is  | 20 PSF<br>2.75 IN/HR<br>WHERE PONDING OCCUR<br>40 PSF<br>30.8 PSF<br>1.0<br>1.0<br>1.0<br>1.0<br>1.1<br>53.2 PSF<br>20.8 PSF<br>61.9 PSF   |
|---|---|---|--|--|--|---|--|---|---|--|--|---|--|
| MEAN ROOF<br>HEIGHT, "h"<br>(FT)<br>21.00<br>NOTES:<br>1. MEAN ROOF F<br>2. REFER TO AS(<br>DETERMINE 0.6h<br>3. THESE TABLE<br>EXTERIOR WALL<br>VENEER TIES, W<br>4. FOR EFFECTIVE<br>EFFECTIVE WINE<br>5. POSITIVE PRE  | EFFECTIVE<br>WIND AREA<br>(SQ FT)<br>≤ 10<br>20<br>50<br>100<br>≥ 500<br>HEIGHT IS MEA<br>SCE 7-16 FOR D<br>th AND 0.2h.<br>ES ARE TO BE U<br>LL ASSEMBLY. I<br>WINDOWS, AND<br>IVE WIND AREA   | ZONE 1'<br>MIDDLE INTERIOR<br>-30.8 16.0<br>-30.8 16.0<br>-30.8 16.0<br>-30.8 16.0<br>-20.9 16.0<br>ASURED ABOVE DA<br>DEFINITION OF TERI<br>USED FOR WIND LC<br>EXAMPLES OF COM<br>D THEIR ATTACHME<br>A VALUES LISTED IN  | ZONE 1           INTERIOR           -53.7         16.0           -50.1         16.0           -45.5         16.0           -41.9         16.0           -33.7         16.0           MS. FOR THE DIMENTS         16.0           DAD CONTRIBUTION         16.0           MS. FOR THE DIMENTS         16.0   | ROOF           ZONE 1/1'         ZONE 1/1'           OVERHANG         EDGE           -48.5         -70.8           -47.7         -66.3           -46.5         -60.2           -45.7         -55.7           -31.4         -45.1           ON = 100'-0".         NSIONS OF EACH ZONE           N TO TOTAL LOAD ACTIN         ADDING INCLUDE, BUT A   | ZONE 2<br>OVERHANG<br>-65.7<br>-59.6<br>-51.6<br>-45.5<br>-31.4<br>, REFERENCE FIG   | ZONE           CORNER         OV           -96.5         -           -87.4         -           -75.4         -           -66.3         -           -45.1         -  | 3<br>ERHANG<br>-91.4   | WA<br>ZONE 4<br>INTERIOR<br>33.4 30.8<br>32.0 29.5<br>30.2 27.7<br>28.9 26.3<br>25.7 23.1   | ALLS<br>ZONE<br>CORN<br>-41.1<br>-38.4<br>-34.8<br>-32.0<br>-25.7<br>BOVE TABLE   | E 5<br>NER<br>30.8<br>29.5<br>27.7<br>26.3<br>23.1<br>E TO   | A. <u>ROOF LIVE LOAD</u><br>MINIMUM ROOF LIVE LOA<br>B. <u>RAIN LOADS</u> PER<br>RAIN INTENSITY, i<br>RAIN SURCHARGE LOAD<br>IN ACCORDANCE WITH B<br>C. <u>SNOW LOADS</u> PE<br>GROUND SNOW, Pg (FIGL<br>FLAT ROOF SNOW LOAD,<br>SNOW EXPOSURE FACTO<br>THERMAL FACTOR, Ct<br>SLOPE FACTOR, C<br>SNOW LOAD IMPORTANC<br>DRIFT SURCHARGE, Pd<br>DRIFT A<br>DRIFT B  | S PER BCNYS 1607.13<br>D<br>BCNYS 1611<br>HAS BEEN APPLIED TO AREAS<br>CNYS 1611.1.<br>R BCNYS 1608<br>JRE 1608.2)<br>, P <sub>f</sub> (ASCE 7)<br>DR, C <sub>e</sub><br>CE FACTOR, I <sub>S</sub>  | 20 PSF<br>2.75 IN/HR<br>WHERE PONDING OCCUR<br>40 PSF<br>30.8 PSF<br>1.0<br>1.0<br>1.0<br>1.0<br>1.1<br>53.2 PSF<br>20.8 PSF<br>61.9 PSF   |
| NOTES:<br>1. MEAN ROOF F<br>2. REFER TO AS(<br>DETERMINE 0.6h<br>3. THESE TABLE:<br>EXTERIOR WALL<br>VENEER TIES, W<br>4. FOR EFFECTIVE<br>EFFECTIVE WINE<br>5. POSITIVE PRE<br>SIMULTANEOUSI                             | (SQ FT)<br>≤ 10<br>20<br>50<br>100<br>≥ 500<br>HEIGHT IS MEA<br>SCE 7-16 FOR D<br>Sce 7-16 FO | MIDDLE INTERIOR -30.8 16.0 -30.8 16.0 -30.8 16.0 -30.8 16.0 -30.8 16.0 -20.9 16.0 ASURED ABOVE DA DEFINITION OF TERI USED FOR WIND LC EXAMPLES OF COM D THEIR ATTACHME A VALUES LISTED IN   | INTERIOR           -53.7         16.0           -50.1         16.0           -45.5         16.0           -41.9         16.0           -33.7         16.0           TUM FFE, ELEVATION           MS. FOR THE DIMENDAD CONTRIBUTION           MPONENTS AND CLAND           ENTS.  | OVERHANG         EDGE           -48.5         -70.8           -47.7         -66.3           -46.5         -60.2           -45.7         -55.7           -31.4         -45.1           ON = 100'-0".         NSIONS OF EACH ZONE           N TO TOTAL LOAD ACTINADDING INCLUDE, BUT ACTINADODING INCLUDE, BUT AC   | E OVERHANG<br>-65.7<br>-59.6<br>-51.6<br>-45.5<br>-31.4<br>, REFERENCE FIG   | CORNER OV<br>-96.5<br>-87.4<br>-75.4<br>-66.3<br>-45.1<br>URE 30.4-1 IN AS<br>ONENT OR CLAI   | ERHANG<br>-91.4 -3<br>-80.7 -3<br>-66.7 -3<br>-56.1 -3<br>-31.4 -3<br>SCE 7-16 AND U   | INTERIOR<br>33.4 30.8<br>32.0 29.5<br>30.2 27.7<br>28.9 26.3<br>25.7 23.1<br>JSE "h" FROM A   | CORN<br>-41.1<br>-38.4<br>-34.8<br>-32.0<br>-25.7<br>BOVE TABLI   | JER<br>30.8<br>29.5<br>27.7<br>26.3<br>23.1<br>E TO  | B. <u>RAIN LOADS</u> PER<br>RAIN INTENSITY, i<br>RAIN SURCHARGE LOAD<br>IN ACCORDANCE WITH B<br>C. <u>SNOW LOADS</u> PE<br>GROUND SNOW, Pg (FIGU<br>FLAT ROOF SNOW LOAD,<br>SNOW EXPOSURE FACTOR<br>THERMAL FACTOR, Ct<br>SLOPE FACTOR, C<br>SNOW LOAD IMPORTANC<br>DRIFT SURCHARGE, Pd<br>DRIFT A<br>DRIFT B  | BCNYS 1611<br>HAS BEEN APPLIED TO AREAS<br>CNYS 1611.1.<br>R BCNYS 1608<br>JRE 1608.2)<br>, Pf (ASCE 7)<br>OR, Ce   | 2.75 IN/HR<br>WHERE PONDING OCCUR<br>40 PSF<br>30.8 PSF<br>1.0<br>1.0<br>1.0<br>1.1<br>53.2 PSF<br>20.8 PSF<br>61.9 PSF  |
| 21.00<br>NOTES:<br>1. MEAN ROOF F<br>2. REFER TO ASC<br>DETERMINE 0.6h<br>3. THESE TABLE:<br>EXTERIOR WALL<br>VENEER TIES, W<br>4. FOR EFFECTIVE<br>EFFECTIVE WINE<br>5. POSITIVE PRE                                     | ≤ 10<br>20<br>50<br>100<br>≥ 500<br>HEIGHT IS MEA<br>SCE 7-16 FOR D<br>SCE 7-16 FOR D<br>SCE 7-16 FOR D<br>SCE 7-16 FOR D<br>LL ASSEMBLY. I<br>WINDOWS, AND<br>IVE WIND AREA<br>ND AREA.  | -30.8         16.0           -30.8         16.0           -30.8         16.0           -30.8         16.0           -30.8         16.0           -20.9         16.0           ASURED ABOVE DATE           DEFINITION OF TERI           USED FOR WIND LC           EXAMPLES OF COMD           DIFIER ATTACHME           A VALUES LISTED IN | -53.7         16.0           -50.1         16.0           -45.5         16.0           -41.9         16.0           -33.7         16.0           -33.7         16.0           -33.7         16.0           -30.7         16.0           -33.7         16.0           -30.7         16.0           -30.7         16.0           -30.7         16.0           -30.7         16.0           -30.7         16.0           -30.7         16.0           -30.7         16.0           -30.7         16.0           -30.7         16.0           -30.7         16.0           -30.7         16.0           -30.7         16.0           DAD CONTRIBUTION         MONENTS AND CLANDING           MONENTS         AND CLANDING           NTHE TABLE ABOVE         ABOVE | -48.5       -70.8         -47.7       -66.3         -46.5       -60.2         -45.7       -55.7         -31.4       -45.1         DN = 100'-0".       NSIONS OF EACH ZONE         N TO TOTAL LOAD ACTIN         ADDING INCLUDE, BUT A  | ARE NOT LIMITED  | -96.5<br>-87.4<br>-75.4<br>-66.3<br>-45.1<br>URE 30.4-1 IN AS   | -91.4 -3<br>-80.7 -3<br>-66.7 -3<br>-56.1 -3<br>-31.4 -3<br>SCE 7-16 AND 1   | 33.4       30.8         32.0       29.5         30.2       27.7         28.9       26.3         25.7       23.1   | -41.1<br>-38.4<br>-34.8<br>-32.0<br>-25.7<br>BOVE TABLI   | 30.8<br>29.5<br>27.7<br>26.3<br>23.1<br>E TO   | RAIN SURCHARGE LOAD<br>IN ACCORDANCE WITH B<br>C. <u>SNOW LOADS</u> PE<br>GROUND SNOW, Pg (FIGL<br>FLAT ROOF SNOW LOAD,<br>SNOW EXPOSURE FACTO<br>THERMAL FACTOR, Ct<br>SLOPE FACTOR, C<br>SNOW LOAD IMPORTANC<br>DRIFT SURCHARGE, Pd<br>DRIFT A<br>DRIFT B  | HAS BEEN APPLIED TO AREAS<br>CNYS 1611.1.<br>R BCNYS 1608<br>JRE 1608.2)<br>, P <sub>f</sub> (ASCE 7)<br>OR, C <sub>e</sub><br>CE FACTOR, I <sub>S</sub>  | 40 PSF<br>30.8 PSF<br>1.0<br>1.0<br>1.0<br>1.1<br>53.2 PSF<br>20.8 PSF<br>61.9 PSF   |
| 21.00<br>NOTES:<br>1. MEAN ROOF F<br>2. REFER TO AS<br>DETERMINE 0.6h<br>3. THESE TABLE<br>EXTERIOR WALL<br>VENEER TIES, W<br>4. FOR EFFECTIVE<br>EFFECTIVE WINE<br>5. POSITIVE PRE                                       | 50<br>100<br>≥ 500<br>HEIGHT IS MEA<br>SCE 7-16 FOR D<br>Sce 7-16 FOR D     | -30.816.0-30.816.0-20.916.0ASURED ABOVE DATESDEFINITION OF TERIONDEFINITION OF TERIONUSED FOR WIND LCEXAMPLES OF COMD THEIR ATTACHMEA VALUES LISTED IN  | -45.516.0-41.916.0-33.716.0TUM FFE, ELEVATIONMS. FOR THE DIMENTDAD CONTRIBUTIONMPONENTS AND CLANDENTS.N THE TABLE ABOV   | -46.5       -60.2         -45.7       -55.7         -31.4       -45.1         DN = 100'-0".          NSIONS OF EACH ZONE          N TO TOTAL LOAD ACTINADDING INCLUDE, BUT ADDING INCL | -51.6<br>-45.5<br>-31.4<br>, REFERENCE FIG<br>NG ON ANY COMP<br>ARE NOT LIMITED  | -75.4<br>-66.3<br>-45.1<br>URE 30.4-1 IN AS   | -66.7 -3<br>-56.1 -3<br>-31.4 -3<br>SCE 7-16 AND U   | 30.2 27.7<br>28.9 26.3<br>25.7 23.1<br>JSE "h" FROM A   | -34.8<br>-32.0<br>-25.7<br>BOVE TABLI   | 27.7<br>26.3<br>23.1<br>E TO   | IN ACCORDANCE WITH B<br>C. <u>SNOW LOADS</u> PE<br>GROUND SNOW, Pg (FIGL<br>FLAT ROOF SNOW LOAD,<br>SNOW EXPOSURE FACTO<br>THERMAL FACTOR, Ct<br>SLOPE FACTOR, C<br>SNOW LOAD IMPORTANC<br>DRIFT SURCHARGE, Pd<br>DRIFT A<br>DRIFT B   | CNYS 1611.1.<br>R BCNYS 1608<br>JRE 1608.2)<br>, Pf (ASCE 7)<br>OR, Ce<br>CE FACTOR, Is   | 40 PSF<br>30.8 PSF<br>1.0<br>1.0<br>1.0<br>1.1<br>53.2 PSF<br>20.8 PSF<br>61.9 PSF   |
| NOTES:<br>1. MEAN ROOF F<br>2. REFER TO AS<br>DETERMINE 0.6F<br>3. THESE TABLE<br>EXTERIOR WAL<br>VENEER TIES, W<br>4. FOR EFFECTIVE<br>EFFECTIVE WINE<br>5. POSITIVE PRE<br>SIMULTANEOUSI                                | ≥ 500<br>HEIGHT IS MEA<br>SCE 7-16 FOR D<br>bh AND 0.2h.<br>ES ARE TO BE U<br>LL ASSEMBLY. I<br>WINDOWS, AND<br>IVE WIND AREA<br>ND AREA.   | -20.9 16.0<br>-20.9 16.0<br>ASURED ABOVE DA<br>DEFINITION OF TERI<br>USED FOR WIND LC<br>EXAMPLES OF COM<br>D THEIR ATTACHME<br>A VALUES LISTED IN  | -33.7 16.0<br>TUM FFE, ELEVATIO<br>MS. FOR THE DIME<br>DAD CONTRIBUTION<br>MPONENTS AND CLA  | -31.4 -45.1<br>DN = 100'-0".<br>NSIONS OF EACH ZONE<br>N TO TOTAL LOAD ACTIN<br>ADDING INCLUDE, BUT A  | -31.4<br>, REFERENCE FIG<br>NG ON ANY COMP<br>ARE NOT LIMITED  | URE 30.4-1 IN AS  | -31.4 -2   | 25.7 23.1<br>JSE "h" FROM A   | -25.7<br>BOVE TABLI   | 23.1<br>E TO   | GROUND SNOW, Pg (FIGL<br>FLAT ROOF SNOW LOAD,<br>SNOW EXPOSURE FACTO<br>THERMAL FACTOR, Ct<br>SLOPE FACTOR, C<br>SNOW LOAD IMPORTANC<br>DRIFT SURCHARGE, Pd<br>DRIFT A<br>DRIFT B  | JRE 1608.2)<br>, P <sub>f</sub> (ASCE 7)<br>DR, C <sub>e</sub><br>CE FACTOR, I <sub>S</sub>   | 40 PSF<br>30.8 PSF<br>1.0<br>1.0<br>1.0<br>1.1<br>53.2 PSF<br>20.8 PSF<br>61.9 PSF   |
| NOTES:<br>1. MEAN ROOF F<br>2. REFER TO AS<br>DETERMINE 0.6F<br>3. THESE TABLE<br>EXTERIOR WALL<br>VENEER TIES, W<br>4. FOR EFFECTIVE<br>EFFECTIVE WINE<br>5. POSITIVE PRE<br>SIMULTANEOUSI                               | HEIGHT IS MEA<br>SCE 7-16 FOR D<br>In AND 0.2h.<br>ES ARE TO BE U<br>LL ASSEMBLY. I<br>WINDOWS, AND<br>IVE WIND AREA<br>ND AREA.  | ASURED ABOVE DA<br>DEFINITION OF TERI<br>USED FOR WIND LC<br>EXAMPLES OF COM<br>D THEIR ATTACHME<br>A VALUES LISTED IN  | TUM FFE, ELEVATION<br>MS. FOR THE DIME<br>DAD CONTRIBUTION<br>MPONENTS AND CL<br>ENTS.   | DN = 100'-0".<br>NSIONS OF EACH ZONE<br>N TO TOTAL LOAD ACTIN<br>ADDING INCLUDE, BUT 7   | , REFERENCE FIG<br>NG ON ANY COMP<br>ARE NOT LIMITED   | URE 30.4-1 IN AS  |  | JSE "h" FROM A  | BOVE TABLI  | ЕТО  | SNOW EXPOSURE FACTO<br>THERMAL FACTOR, Ct<br>SLOPE FACTOR, C<br>SNOW LOAD IMPORTANC<br>DRIFT SURCHARGE, Pd<br>DRIFT A<br>DRIFT B   | DR, Ce<br>DE FACTOR, Is   | 1.0<br>1.0<br>1.0<br>1.1<br>53.2 PSF<br>20.8 PSF<br>61.9 PSF   |
| <ol> <li>MEAN ROOF F</li> <li>REFER TO AS<br/>DETERMINE 0.6h</li> <li>THESE TABLE<br/>EXTERIOR WAL<br/>VENEER TIES, W</li> <li>FOR EFFECTIVE<br/>EFFECTIVE WINI</li> <li>POSITIVE PRE<br/>SIMULTANEOUSI</li> </ol>        | HEIGHT IS MEA<br>SCE 7-16 FOR D<br>In AND 0.2h.<br>ES ARE TO BE U<br>LL ASSEMBLY. I<br>WINDOWS, AND<br>IVE WIND AREA<br>ND AREA.  | ASURED ABOVE DA<br>DEFINITION OF TERI<br>USED FOR WIND LC<br>EXAMPLES OF COM<br>D THEIR ATTACHME<br>A VALUES LISTED IN  | TUM FFE, ELEVATIONS. FOR THE DIMEN<br>DAD CONTRIBUTION<br>MPONENTS AND CLA<br>ENTS.  | DN = 100'-0".<br>NSIONS OF EACH ZONE<br>N TO TOTAL LOAD ACTIN<br>ADDING INCLUDE, BUT /   | , REFERENCE FIG<br>NG ON ANY COMP<br>ARE NOT LIMITED   | URE 30.4-1 IN AS  |  | JSE "h" FROM A  | BOVE TABLI  | ЕТО  | SLOPE FACTOR, C<br>SNOW LOAD IMPORTANC<br>DRIFT SURCHARGE, Pd<br>DRIFT A<br>DRIFT B<br>DRIFT C   | CE FACTOR, Is   | 1.0<br>1.1<br>53.2 PSF<br>20.8 PSF<br>61.9 PSF   |
| <ul> <li>2. REFER TO AS<br/>DETERMINE 0.6ł</li> <li>3. THESE TABLE<br/>EXTERIOR WAL<br/>VENEER TIES, W</li> <li>4. FOR EFFECTIVE<br/>EFFECTIVE WINI</li> <li>5. POSITIVE PRE<br/>SIMULTANEOUSI</li> </ul>                 | SCE 7-16 FOR D<br>In AND 0.2h.<br>ES ARE TO BE U<br>LL ASSEMBLY. I<br>WINDOWS, AND<br>IVE WIND AREA<br>ND AREA.   | DEFINITION OF TERI<br>USED FOR WIND LC<br>EXAMPLES OF COM<br>D THEIR ATTACHME<br>A VALUES LISTED IN   | MS. FOR THE DIME<br>DAD CONTRIBUTION<br>MPONENTS AND CL<br>ENTS.   | NSIONS OF EACH ZONE<br>N TO TOTAL LOAD ACTIN<br>ADDING INCLUDE, BUT /  | , REFERENCE FIG<br>NG ON ANY COMP<br>ARE NOT LIMITED   | URE 30.4-1 IN AS  | SCE 7-16 AND U   | JSE "h" FROM A  | BOVE TABLI  | ЕТО  | DRIFT SURCHARGE, Pd<br>DRIFT A<br>DRIFT B<br>DRIFT C   |   | 53.2 PSF<br>20.8 PSF<br>61.9 PSF   |
| 3. THESE TABLE<br>EXTERIOR WAL<br>VENEER TIES, W<br>4. FOR EFFECTIV<br>EFFECTIVE WINI<br>5. POSITIVE PRE  | ES ARE TO BE U<br>LL ASSEMBLY. I<br>WINDOWS, AND<br>IVE WIND AREA<br>ND AREA.   | USED FOR WIND LC<br>EXAMPLES OF COM<br>D THEIR ATTACHME<br>A VALUES LISTED IN   | DAD CONTRIBUTION<br>MPONENTS AND CL<br>ENTS.   | N TO TOTAL LOAD ACTIN<br>ADDING INCLUDE, BUT /   | NG ON ANY COMP<br>ARE NOT LIMITED  |   |  |   |   |  |  |   | 61.9 PSF   |
| 4. FOR EFFECTIVE<br>EFFECTIVE WINI  | LL ASSEMBLY. I<br>WINDOWS, AND<br>IVE WIND AREA<br>ND AREA.   | EXAMPLES OF COM<br>D THEIR ATTACHME<br>A VALUES LISTED IN   | MPONENTS AND CLA<br>ENTS.<br>N THE TABLE ABOV  | ADDING INCLUDE, BUT /  | ARE NOT LIMITED  |   |  | R WHICH IS PAP  | RT OF A ROO   | OF OR  | DRIFT D  |   | 60.4 PSF   |
| 4. FOR EFFECTIV<br>EFFECTIVE WINI<br>5. POSITIVE PRE  | IVE WIND AREA<br>ND AREA.   | A VALUES LISTED IN  | THE TABLE ABOV   |  |  | TO ROOF JOIST   | S, WALL STUD   | S, ROOF DECK  | FASTENER  | S,   | DRIFT WIDTH, w<br>DRIFT A  |   | 11.5 FT  |
| 5. POSITIVE PRE   |   |   |  | E, PRESSURE VALUES N   | AY INTERPOLATE   | ED; OTHERWISE   | USE THE VAL  | JE ASSOCIATEI   | O WITH THE  | LOWER  | DRIFT B<br>DRIFT C<br>DRIFT D  |   | 6.05 F I<br>12.9 FT<br>15.9 FT   |
|   | ESSURES (+) A<br>SLY. PRESSURE  | CT TOWARDS THE  | BUILDING, NEGATI<br>THE SURFACE OF   | VE PRESSURES (-) ACT   | AWAY FROM THE<br>CLADDING.   | BUILDING, POS   | TIVE AND NEG   | ATIVE PRESSU  | RES DO NO   | TACT   | ADDITIONAL SNOW LOAD   | DS HAVE BEEN APPLIED TO ARE   | EAS WHERE DRIFTING   |
| 6. DESIGN VALU  | JES SHOWN IN  | THIS TABLE ARE U  | ILTIMATE VALUES F  | OR USE WITH LRFD DE  | SIGN. VALUES MA  | Y BE MULTIPLIE  | D BY 0.6 FOR l   | JSE WITH SERV   | ICE LEVEL (   | OR ASD   |  |   |  |
| DESIGN. REFER   | R TO THE BUILD  | DING CODE FOR AP  | PLICABLE LOAD CC   | OMBINATIONS.   |  |   |  |   |   |  | D. <u>WIND LOAD DESI</u><br>BASIC DESIGN WIND SPE<br>ALLOWABLE STRESS DES<br>RISK CATEGORY   | <u>GN CRITERIA</u> PER BCNYS 1609<br>ED (3 SECOND GUST), V<br>SIGN WIND SPEED, V <sub>asd</sub>   | 120 MPH<br>93 MPH  |
|   |   |   |  |  |  |   |  |   |   |  | EXPOSURE CATEGORY<br>INTERNAL PRESSURE CO  | DEFFICIENT, GCPi  | C<br>+/- 0.18  |
|   |   |   |  |  |  |   |  |   |   |  | E. <u>SEISMIC DESIGN</u><br>RISK CATEGORY  | <u>CRITERIA</u> PER BCNYS 1613  | 111  |
|   |   |   |  |  |  |   |  |   |   |  | SEISMIC IMPORTANCE FA  | ACTOR, I₀<br>PONSE ACCELERATION   | 1.25   |
|   |   |   |  |  |  |   |  |   |   |  | AT SHORT PERIO<br>AT 1 SECOND PE   | IDS, S₅<br>RIODS, S₁  | 20.1 %g<br>5.4 %g  |
|   |   |   |  |  |  |   |  |   |   |  | SITE CLASS<br>DESIGN SPECTRAL RESF<br>AT SHORT PERIO   | PONSE ACCELERATION  | D (*ASSUMED)   |
|   |   |   |  |  |  |   |  |   |   |  | AT 1 SECOND PEI<br>SEISMIC DESIGN CATEGO   | RIODS, S <sub>D1</sub><br>ORY   | 8.7 %g<br>B  |
|   |   |   |  |  |  |   |  |   |   |  | F. <u>SPECIAL LOADS</u> F<br>MECHANICAL EQUIPMEN   | PER BCNYS 1603.1.8<br>T DEAD LOADS  |  |
|   |   |   |  |  |  |   |  |   |   |  | RTU-D-2<br>RCU-D-2<br>MUA-D-1<br>RTU-D-1   |   | 6755 LB<br>1872 LB<br>2180 LB<br>3335 LB   |
|   |   |   |  |  |  |   |  |   |   |  |  |   |  |
|   | ++  | , 8' - 7 1/2"   | 8' - 7 1/2" 8' -   | 7 1/2" 8' - 7 1/2"   | 1' - 8" 8' - 11"   | 8' - 11"  | 8' - 1   | 1"  |   |  |  |   |  |
|   |   |   |  |  |  | VIF   |  |   | - PROVIDE I<br>RTU-D-2  | FRAME FOR NEW  |  |   |  |
|   |   | 1' - 6"<br>1L - V   |  | 10' - 5 1/4" +/  | 8'   | - 11" +/-   | M-SEF  |   | -COORD E<br>W/ M-SER  | EXACT LOCATION<br>IES DWGS   |  |   |  |
|   |   | EXG<br>KG WÞ  |  |  |  |   |  |   | — EXG "X" BI  | RIDGING AT END SPAN  |  |   |  |
|   |   | B   |  | DS500  |  |   | OOR  |   |   |  |  |   |  |
|   | 6. DESIGN VALU<br>DESIGN. REFER   | 6. DESIGN VALUES SHOWN IN<br>DESIGN. REFER TO THE BUILT   | 6. DESIGN VALUES SHOWN IN THIS TABLE ARE U<br>DESIGN. REFER TO THE BUILDING CODE FOR AF  | 6. DESIGN VALUES SHOWN IN THIS TABLE ARE ULTIMATE VALUES F<br>DESIGN. REFER TO THE BUILDING CODE FOR APPLICABLE LOAD CO  | 6. DESIGN VALUES SHOWN IN THIS TABLE ARE ULTIMATE VALUES FOR USE WITH LRFD DED<br>DESIGN. REFER TO THE BUILDING CODE FOR APPLICABLE LOAD COMBINATIONS. | B. DESIGN VALUES SHOWN IN THIS TABLE ARE ULTIMATE VALUES FOR USE WITH LRFD DESIGN. VALUES MADESIGN. REFER TO THE BUILDING CODE FOR APPLICABLE LOAD COMBINATIONS.         B. DESIGN. REFER TO THE BUILDING CODE FOR APPLICABLE LOAD COMBINATIONS.         Image: State of the stat | 8. DESIGN VALUES SHOWN IN THIS TABLE ARE ULTIMATE VALUES FOR USE WITH LRFD DESIGN. VALUES MAY BE MULTIPLIE<br>DESIGN. 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|---------------------|--------------------------------|----------------|--------------|----------------|--------------|---------------------------------|----------------|----------------|------------|----------------|--------------|--------------|-------------------|------------------------|-------------|--|---------------------------------|--|------------------------|----------|
|                     |                                | (              | COMI         | PONE           | NTS 8        | & CLADD                         | ING W          | IND PRE        | ESSUR      | E (PSF)        |              |              |                   |                        |             | <u>Structural L</u>                        | oads:                           |  |                        | <u>G</u> |
| EAN ROOF            | EFFECTIVE                      | ZONE           | E 1'         | ZON            | NE 1         | ROO<br>ZONE 1/1'                | F              | ZONE 2         | Z          | ONE 3          | ZONE         | WA<br>E 4    | LS<br>ZOI         | NE 5                   |             | A. <u>ROOF LIVE L</u><br>MINIMUM ROOF LIVE | <u>DADS</u> PER BCNY<br>LOAD    | 'S 1607.13                             | 20 PSF                 | Α.       |
| IEIGHT, "h"<br>(FT) | WIND AREA<br>(SQ FT)           | MIDDLE IN      | TERIOR       | INTE           | RIOR         | OVERHANG                        | EDGE           | OVERHANG       | CORNER     | OVERHANG       | INTER        | IOR          | COF               | RNER                   |             | B. <u>RAIN LOADS</u>                       | PER BCNYS 161                   | 1                                      |                        | A        |
|                     | ≤ 10                           | -30.8          | 16.0         | -53.7          | 16.0         | -48.5                           | -70.8          | -65.7          | -96.5      | -91.4          | -33.4        | 30.8         | -41.1             | 30.8                   |             | RAIN INTENSITY, i                          |                                 |  | 2.75 IN/HR             |          |
|                     | 20                             | -30.8          | 16.0         | -50.1          | 16.0         | -47.7                           | -66.3          | -59.6          | -87.4      | -80.7          | -32.0        | 29.5         | -38.4             | 29.5                   |             | RAIN SURCHARGE L                           | DAD HAS BEEN A                  | APPLIED TO AREAS ۱<br>۱                | WHERE PONDING OCCU     | IRS      |
| 21.00               | 50<br>100                      | -30.8          | 16.0<br>16.0 | -45.5<br>-41.9 | 16.0<br>16.0 | -46.5<br>-45.7                  | -60.2<br>-55.7 | -51.6<br>-45.5 | -75.4      | -66.7<br>-56.1 | -30.2        | 27.7<br>26.3 | -34.8<br>-32.0    | 27.7                   |             |  |                                 | 08                                     |                        | _        |
|                     | ≥ 500                          | -20.9          | 16.0         | -33.7          | 16.0         | -31.4                           | -45.1          | -31.4          | -45.1      | -31.4          | -25.7        | 23.1         | -25.7             | 23.1                   |             | GROUND SNOW, Pg (                          | FIGURE 1608.2)                  | 00                                     | 40 PSF                 |          |
| )TES:               |                                |                |              |                |              |                                 |                |                |            |                |              |              |                   |                        |             | SNOW EXPOSURE F                            | DAD, Pf (ASCE 7)<br>ACTOR, Ce   |  | 30.8 PSF<br>1.0        |          |
|                     |                                |                |              |                |              |                                 |                |                |            |                |              |              |                   |                        |             | THERMAL FACTOR, (<br>SLOPE FACTOR, C       | ,<br>t                          |  | 1.0<br>1.0             |          |
| MEAN ROOF           | HEIGHT IS MEA                  | ASURED AB      | OVE DA       | UM FFE, I      | ELEVATIO     | $N = 100^{\circ} - 0^{\circ}$ . |                |                |            |                |              |              |                   |                        |             | SNOW LOAD IMPORT                           | ANCE FACTOR,                    | ls                                     | 1.1                    | В        |
| REFER TO A          | SCE 7-16 FOR E<br>Sh AND 0.2h. | DEFINITION     | OF TER       | MS. FOR T      | HE DIMEN     | ISIONS OF EACH                  | HZONE, R       | EFERENCE FIG   | URE 30.4-1 | IN ASCE 7-16 A | ND USE "h" I | FROM AE      | BOVE TAB          | IE TO                  |             | DRIFT A                                    | a                               |  | 53.2 PSF               |          |
|                     |                                |                |              |                |              |                                 |                |                |            |                |              |              |                   |                        |             | DRIFT C                                    |                                 |  | 20.8 PSF<br>61.9 PSF   |          |
| TERIOR WA           | LL ASSEMBLY.                   | EXAMPLES       | OF CON       | IPONENTS       | S AND CLA    |                                 | E, BUT AR      | E NOT LIMITED  | TO ROOF J  | OISTS, WALL S  | STUDS, ROO   | F DECK I     | ASTENE            | RS,                    |             | DRIFT D<br>DRIFT WIDTH, w                  |                                 |  | 60.4 PSF               |          |
| NEER TIES,          | WINDOWS, ANI                   | D THEIR AT     | TACHME       | NTS.           |              |                                 |                |                |            |                |              |              |                   |                        |             | DRIFT A                                    |                                 |  | 11.5 FT<br>6.05 FT     |          |
| FOR EFFECT          | IVE WIND ARE                   | A VALUES L     | ISTED IN     | I THE TAB      | LE ABOVE     | E, PRESSURE VA                  | ALUES MA       | Y INTERPOLATI  | ED; OTHER  | WISE USE THE   | VALUE ASSO   | OCIATED      | WITH TH           | IE LOWER               |             |  |                                 |  | 12.9 FT                |          |
|                     |                                |                |              |                |              |                                 |                |                |            |                |              | ססבפטונ      |                   |                        |             |  |                                 |  |                        |          |
| ULTANEOU            | SLY. PRESSUR                   | ES ARE API     | PLIED TO     | ) THE SUR      | RFACE OF     | THE COMPONE                     | NT OR CL       | ADDING.        | BUILDING,  | POSITIVE AND   | NEGATIVE     | -KESSUI      |                   | OTACI                  |             | OCCURS IN ACCORE                           | ANCE WITH BC                    | NYS 1608.                              | AS WHERE DRIFTING      | U        |
| DESIGN VAL          | JES SHOWN IN                   | THIS TABL      | E ARE U      |                | ALUES F      | OR USE WITH LI                  | RFD DESIC      | SN. VALUES MA  | Y BE MULT  | PLIED BY 0.6 F | OR USE WIT   | H SERV       | CE LEVEL          | ORASD                  |             |  |                                 |  |                        |          |
| SIGN. REFE          | R TO THE BUILD                 | DING CODE      | FOR AP       | PLICABLE       | LOAD CO      | MBINATIONS.                     |                |                |            |                |              |              |                   |                        |             | D. <u>WIND LOAD I</u><br>BASIC DESIGN WIND | ESIGN CRITERIA<br>SPEED (3 SECO | <u>A</u> PER BCNYS 1609<br>ND GUST), V | 120 MPH                |          |
|                     |                                |                |              |                |              |                                 |                |                |            |                |              |              |                   |                        |             | ALLOWABLE STRESS                           | DESIGN WIND                     | SPEED, V <sub>asd</sub>                | 93 MPH                 |          |
|                     |                                |                |              |                |              |                                 |                |                |            |                |              |              |                   |                        |             | EXPOSURE CATEGO                            | RY                              |  | C                      | _        |
|                     |                                |                |              |                |              |                                 |                |                |            |                |              |              |                   |                        |             | INTERNAL PRESSUR                           | = COEFFICIENT,                  | GCPi                                   | +/- 0.18               |          |
|                     |                                |                |              |                |              |                                 |                |                |            |                |              |              |                   |                        |             | E. <u>SEISMIC DES</u><br>RISK CATEGORY     | I <u>GN CRITERIA</u> PI         | ER BCNYS 1613                          | 111                    |          |
|                     |                                |                |              |                |              |                                 |                |                |            |                |              |              |                   |                        |             | SEISMIC IMPORTANC                          | E FACTOR, I                     |  | 1.25                   |          |
|                     |                                |                |              |                |              |                                 |                |                |            |                |              |              |                   |                        |             | AT SHORT PE                                | RIODS, S <sub>S</sub>           | ELERATION                              | 20.1 %g                |          |
|                     |                                |                |              |                |              |                                 |                |                |            |                |              |              |                   |                        |             | AT 1 SECONL<br>SITE CLASS                  | PERIODS, $S_1$                  |  | 5.4 %g<br>D (*ASSUMED) |          |
|                     |                                |                |              |                |              |                                 |                |                |            |                |              |              |                   |                        |             | DESIGN SPECTRAL F<br>AT SHORT PE           | ESPONSE ACCE                    | ELERATION                              | 21.4 %a                |          |
|                     |                                |                |              |                |              |                                 |                |                |            |                |              |              |                   |                        |             | AT 1 SECONE                                | PERIODS, S <sub>D1</sub>        |  | 8.7 %g                 |          |
|                     |                                |                |              |                |              |                                 |                |                |            |                |              |              |                   |                        |             | F. <u>SPECIAL LOA</u>                      | DS PER BCNYS                    | 1603.1.8                               | D                      | -        |
|                     |                                |                |              |                |              |                                 |                |                |            |                |              |              |                   |                        |             | MECHANICAL EQUIP<br>RTU-D-2                | MENT DEAD LOA                   | DS                                     | 6755 LB                |          |
|                     |                                |                |              |                |              |                                 |                |                |            |                |              |              |                   |                        |             | RCU-D-2<br>MUA-D-1                         |                                 |  | 1872 LB<br>2180 LB     |          |
|                     |                                |                |              |                |              |                                 |                |                |            |                |              |              |                   |                        |             | RTU-D-1                                    |                                 |  | 3335 LB                | ш        |
|                     |                                |                |              |                |              |                                 |                |                |            |                |              |              |                   |                        |             |  |                                 |  |                        |          |
|                     |                                | 8' - 7 1/2'    |              | 8' - 7 1/2"    | . 8' -       | 7 1/2" . 8' -                   | 7 1/2" 1'      | - 8" 8' - 11"  | . 8'       | - 11"          | 8' - 11"     |              |                   |                        |             |  |                                 |  |                        |          |
|                     |                                | 8" VIF         |              | VIF            |              | /IF                             | VIF            | /IF VIF        |            | VIF            | VIF          |              |                   |                        |             |  |                                 |  |                        |          |
|                     |                                | VIF            |              |                |              |                                 |                |                |            |                | IRIE:        |              | RTU-D-2           |                        |             |  |                                 |  |                        | _        |
|                     |                                | - ' e.<br>LL - |              |                |              | 10' - 5                         | 1/4" +/        | 8'             | - 11" +/-  |                | A-SE         |              | -COORD<br>W/ M-SE | EXACT LOC<br>RIES DWGS | CATION      |  |                                 |  |                        |          |
|                     |                                | XG 1           |              |                |              |                                 |                |                |            | +              | M/W          |              |                   |                        |             |  |                                 |  |                        |          |
|                     |                                | BRG            |              |                |              |                                 |                |                |            |                | SRD<br>'GS   |              | - EXG "X"         | BRIDGING A             | AT END SPAN |  |                                 |  |                        |          |
| 4                   |                                |                |              |                |              |                                 |                |                |            |                | ŏб<br>Со     |              |                   |                        |             |  |                                 |  |                        | ш        |
|                     |                                |                |              | / / / /        |              |                                 |                |                |            |                |              |              |                   |                        |             |  |                                 |  |                        |          |
| 1                   | /N                             |                | . / 1 /      | /              |              |                                 |                |                |            |                | m / / /      |              |                   |                        |             |  |                                 |  |                        |          |



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| CENTRAL                             | SCHOOL DISTRICT   |  |  |  |  |  |  |  |
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| <b>TET</b><br>ARCHITE               | RATECH            |  |  |  |  |  |  |  |
| entral Schoo<br>ew York             | ol District       |  |  |  |  |  |  |  |
| ction to:<br>lementary School       |                   |  |  |  |  |  |  |  |
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| Date:<br>11/4/2022                  |                   |  |  |  |  |  |  |  |
| JU1                                 |                   |  |  |  |  |  |  |  |

| DWG<br>LABEL LOCATION  | DESIGN MAKE:       SUPPLY AIR<br>TRANE       EVENT MODE<br>(CFM)       CLASSROOM<br>OA (CFM)       ESP<br>(in-wg)       TSP<br>(in-wg)       TSP<br>(in-wg)       TSP<br>(in-wg)       TSP<br>(in-wg)       L       L       EXHAUST AIR<br>(CFM)       MIN. EXHAU<br>(CFM)         x       CXM 25       STACE 35P       CSAA017       6900       4670       1700       20" DD PLENUM       0.75       3.81       2180       74       7.5       4670       1700  | UST ESP TSP FAN ARR (in-wg) (in-wg) RPM VFD FREQ. HP V/PH FLA MC/   | A MOCP ROWS (°F) (°F) (°F) (°F) (°F) (°F) (°F) (°F)   |
|--|---|---|---|
| RTU-D-2ROOF - AREA BNOTES:1.GASKETED ACCES2.COILS SHALL HAV3.PROVIDE UV-C LIC4.PROVIDE 2" MERV5.PROVIDE 120V/1PI | GYM 35, STAGE 35B       CSA017       6900       4670       1700       20" DD PLENUM       0.75       3.81       2180       74       7.5       4670       1700         SS DOORS AND MODULAR SECTIONS WITH DOUBLE WALLED 2" R-13 GALVANIZED STEEL PANELS WITH THERMAL BREAK.       6.       PROVIDE HIGH EFFICIENC         //E SAME SIDE CONNECTION UNLESS OTHERWISE INDICATED. PROVIDE FULL SECTION HEIGHT 24" DEEP PIPE CABINET.       6.       VENTILATION: 4700         GHT DOWNSTREAM OF COOLING COIL (TO MAINTAIN CLEAN COIL) WITH SEPARATE 120V/1PH POWER (FLA=1.5A).       8.       VENTILATION: 4700         /8 PRE-FILTER PRIOR TO ENERGY WHEEL (BOTH DIRECTIONS) AND MERV13 FILTERS BEFORE COILS.       b.       WINTER= EDE         H (FLA=8A) GFI SERVICE OUTLET FOR SEPARATE POWER.       B.       EXHAUST: 4700 CFM  | 15° DD PLENUM 0.50 2.76 2272 77 2 208/3 45 A 527<br>CY ENERGY WHEEL WITH RETURN AIR RECIRCULATION AND BYPASS DAMPERS.<br>CFM, PD: 0.6 in-wg<br>B:84.2°F, EWB:75.0°F, LDB: 77.3°F, LWB: 68.1°F, 70.8% TOTAL EFFECTIVENESS<br>:7.0°F, EWB:3.0°F, LDB: 49.2°F, LWB: 35.7°F, 73.3% TOTAL EFFECTIVENESS<br>I, ENTERING SUMMER: 75.0°F/65.0°F, ENTERING WINTER: 65.0°F/45.0°F, PD: 0.6 in-wg  | A       70 A       4       77.1       65.5       56.1       53.8       246       160       0.62       2       54.9       85.0       226       0.18       160.0       103.5       8       0.4       6230 lb       1-14         7.       PROVIDE INTERLACED CIRCUIT COOLING COIL.       1       PROVIDE SPRING ISOLATED 14" ROOF CURB. PROVIDE ACOUSTICALLY LINED       11.       PROVIDE SINGLE POINT POWER CONNECTION FOR FAN VFDs.         8.       PROVIDE SPRING ISOLATED 14" ROOF CURB. PROVIDE ACOUSTICALLY LINED       11.       PROVIDE SINGLE POINT POWER CONNECTION FOR FAN VFDs.         9.       PROVIDE EXTERIOR TOGGLE SWITCH AND DOOR LIMIT SWITCH FOR UV-C LIGHT.       13.       PROVIDE FACTORY-INSTALLED SUPPLY AND EXHAUST FAN VFDs.         10.       PROVIDE H-O-A SWITCH AND STARTER FOR ENERGY WHEEL.       14.       PROVIDE NEMA 3R UNIT DISCONNECT SWITCH.  |
|  | REMOTE CONDENSING UNIT (RCU) SCHEDULE         COOLING       R410A TEMPERATURES  | EQUIPMENT FURNISHED BY OWNER,<br>INSTALLED BY MECHANICAL CONTRACTOR<br>ELECTRICAL DATA - 208V/3PH   | MAKE-UP AIR (MUA) UNIT SCHEDULE       EQUIPMENT FURNISHED BY OWNER,<br>INSTALLED BY MECHANICAL CONTRACTOR         DESIGN       SUPPLY FAN       ELECTRICAL DATA       HEATING DATA  |
|  | DWG<br>LABELDCATIONDESIGN MAKE:<br>TRANENOMINAL<br>CAPACITYCAPACITY<br>(MBH)LIQUIDAMBIENT<br>SUCTIONNO. OF COMP/<br>TEMPERATURENO. OF COMP/<br>EERNO. OF<br>CAPACITYNO. OF<br>CIRCUITSRCU-D-2ROOF - AREA BRTU-D-2RAUJ20 Tons246120.5 °F40.0 °F95.011.7(2) 10-TON11NOTES:<br>1.FIELD CHARGE REFRIGERANT FOR SUPPLY LINE, CONDENSER AND COILS.3.VERIFY LINE SIZES WITH MANUFACTURER.<br>PROVIDE 14" SPRING ISOLATION SUPPORT RAILS.2.PROVIDE EQUIPMENT STARTER AND NEMA 3R DISCONNECT.4.PROVIDE 14" SPRING ISOLATION SUPPORT RAILS.   | MCAMOPRLA - COMPNO. COMP.OPER.<br>WEIGHTNOTES02 A125 A41 A218721-4  | DWG<br>LABELLOCATIONSERVESMAKE: TRANE<br>MODEL:SUPPLY/OUTSIDE<br>AIRFLOWESP<br>(in wg)RPMHPVOLT/PHFLAMCAMOPEATLATCAPACITY<br>(MBH)STEAM<br>PRESS.OPERATING<br>WEIGHT (LB)NOTESMUA-D-1ROOF - AREA AKITCHEN 34CSAA00833000.520563208/315 A19 A30 A8.775.02373 psi21801-3NOTES:<br>1.PROVIDE 120V GFCI SERVICE OUTLET.<br>2.3.PROVIDE UNIT DISCONNECT, FACTORY INSTALLED VFD AND TEFC MOTOR.STEAM<br>2370.521801-3   |
|  | CABINET UNIT HEATER (CUH) SCHEDULE EQUIPMENT FURNISHED BY OWNER,<br>INSTALLED BY MECHANICAL CONTRACTOR  |   | PACKAGED ROOFTOP UNIT (RTU) SCHEDULE       EQUIPMENT FURNISHED BY OWNER, INSTALLED BY MECHANICAL CONTRACTOR   |
|  | Image: DWG DWG LABEL       LOCATION       MODEL NO.       CFM       ROW       CFM       LAT       CAP. (°F)       WPD       ESP       MOTOR SIZE       MOTOR SIZE       MOA       MOA       MOP       NOTES         CUH-D-1       VESTIBULE V2       FFCB030       300       2       60.0       113.9       17.5       1.0       3       0.50       776       0.02       120V/1ø       2.2       2.8       15       1-6         NOTES:       Image: Component of the text of text | DWG<br>LABEL       LOCATION       SERVES       DESIGN MAKE:<br>VALENT       SUPPLY<br>(CFM)       M         RTU-D-1       ROOF - AREA A       CAFETERIA C1       VX-212-151-2-A0       4000         NOTES:       1.       GASKETED ACCESS DOORS AND MODULAR SECTIONS WITH DOUBL         2.       COILS SHALL HAVE SAME SIDE CONNECTION UNLESS OTHERWISE I         3.       PROVIDE SINGLE POINT CONNECTION AND NEMA-3R H-O-A NON-FUT  | SUPPLY FAN       HEATING DATA       OPER.         MIN. OA       ESP       EAT       LAT       CAP.       EDB       EWB       LDB       LWB       TC       SC       HOT GAS       COMPRESSOR       EER       VOLT       PH       MCA       MOP       (LB)       NOTES         2600       0.5       1.5       3.0       28.4       86.0       3.0 psi       249.3       83.5       70.1       55.1       54.8       199.0       125.0       77.7 °F       INVERTER SCROLL       11.2       208 V       3       65 A       80 A       3335       1-7         E WALLED 2" R-13 GALVANIZED STEEL PANELS WITH THERMAL BREAK.       5.       PROVIDE SPRING ISOLATED 14" ROOF CURB. PROVIDE ACOUSTICALLY LINED ROOF CURB PER DETAIL.         NOTES         NDICATED. PROVIDE FULL SECTION HEIGHT 24" DEEP PIPE CABINET.       5.       PROVIDE 120V/1PH (FLA=8A) GFI SERVICE OUTLET FOR SEPARATE POWER.       SECTION FOR SUPPLY FAN VFD.         SECTION FOR SUPPLY FAN VFD.  |
|  | Μ   | 4. PROVIDE 2" MERV8 PRE-FILTER AND MERV13 FINAL FILTERS BEFOR   | E COILS.<br>EQUIPMENT FURNISHED BY OWNER,   |
| WG UNIT<br>ABEL LOCATION<br>U-D-3 ROOF - AREA<br>U-D-4 ROOF - AREA   | INIC         INIC           N         SERVES         DESIGN<br>MAKE:         SA<br>FAN ARR.         MIN. OA<br>(CFM)         DISCH.<br>ARR.         ESP<br>(IN WG)         RPM         BHP         HP         FAN ARR.           B         AREA B - 37, 38, 42, 111A, V1-3, P106         SEASONS 4         24" AF SWSI PLENUM         5840         1690         MULTI-ZONE         0.75         1814         5.6         7.5         20" AF SWSI PLENUM           B         AREA B - P104, 14-22         SEASONS 4         27" AF SWSI PLENUM         13650         5300         MULTI-ZONE         0.75         1804         14.7         20.0         27" AF SWSI PLENUM  | RETURN FAN       ELECTRICAL DATA       WEIGHT         RA       ESP       Image: Comparison of the text of | INSTALLED BY MECHANICAL CONTRACTOR         OA ENERGY RECOVERY DATA       RA ENERGY RECOVERY DATA       ENERGY RECOVERY DATA       HEATING DATA       HOT WATER COIL         OA       EDB       EWB       LDB  |
| <u>S:</u><br>GASKETED ACCESS D<br>PROVIDE ELECTRICAI<br>PROVIDE 2" MERV9 PI                                      | DOORS AND MODULAR SECTIONS WITH DOUBLE WALLED 2" R-13 GALVANIZED STEEL PANELS WITH THERMAL BREAK.4.COILS SHALL HAL/CONTROLS SECTION FOR UNIT DISCONNECT SWITCH, WHEEL H-O-A SWITCH, CONTROLS AND SUPPLY AND RETURN FAN VFD.5.PROVIDE SINGLERE-FILTER PRIOR TO ENERGY WHEEL (BOTH DIRECTIONS) AND MERV14 FILTERS BEFORE SUPPLY FAN. ALL FILTER FACE VELOCITIES <300 FPM.   | VE SAME SIDE CONNECTION UNLESS OTHERWISE INDICATED.<br>E POINT CONNECTION AND NEMA-4 DISCONNECT SWITCH.<br>ID MATCH EXISTING ROOF CURB OUTER DIMENSIONS (~10'-2" W x 25'-6" L).   | <ol> <li>PROVIDE 120V/1PH (FLA=8A) GFI SERVICE OUTLET ON LINE SIDE OF DISCONNECT.</li> <li>PROVIDE THREE-DECK MULTIZONE SECTION FOR FIVE ZONES.</li> <li>PROVIDE THREE-DECK MULTIZONE SECTION FOR FOUR ZONES.</li> <li>PROVIDE FACTORY-INSTALLED ACTUATORS FOR MULTIZONE DAMPERS.</li> </ol>  |
|  |   |   |   |
|  |   |   | DWG<br>LABELMODEL<br>SERVESMODEL<br>NO.MODEL<br>TYPEVENT<br>CFMHOOD<br>SIZE (IN<br>X IN)HOOD<br>SIZE (IN<br>X IN)CURB<br>HEIGHT<br>(IN)FREE<br>AREA<br>(IN)SP<br>(IN)HOOD<br>(IN)HOOD<br>HOOD<br>(IN)RTH-D-1GYM 3524x24GR<br>24x24GRRELIEF240024x2451x3917.25144.006000.07KYNAR<br>KYNAR1, 2, 3RTH-D-2CAFETERIA C124x24GR<br>24x24GRRELIEF200024x2451x3917.25144.005000.04KYNAR<br>KYNAR1, 2, 3RTH-D-3CAFETERIA C124x24GR<br>24x24GRRELIEF200024x2451x3917.25144.005000.04KYNAR<br>KYNAR1, 2, 3NOTES:<br>1.DESIGN BASIS: LOREN COOK<br>2.PROVIDE MOTORIZED AUTOMATIC AIR DAMPER (AAD) AND ACTUATOR BELOW ROOF STRUCTURE.3.PROVIDE MOTORIZED AUTOMATIC AIR DAMPER (AAD) AND ACTUATOR BELOW ROOF STRUCTURE.   |
|  |   |   | PLATTEKILL BUILDING/EQUIPMENT VENTILATION CALCULATIONS           ZONE ID         MINIMUM VENTILATION RATES  |
|  |   |   | EQUIPMENT       ROOM       ROOM       ROOM NAME       OCCUPANCY       Az - AREA       Pz - ZONE       ZONE       Rp       Rp       Ra       Vbz       EZ       Vbz       CFM       Pz   |
|  |   |   | NOTES:<br>Rp = PEOPLE OUTDOOR AIR RATE, Ra = AREA OUTDOOR AIR RATE, Vbz = BREATHING ZONE OUTDOOR AIRFLOW,<br>Ez = AIR DISTRIBUTION CONFIGURATION, Voz = ZONE OUTDOOR AIRFLOW<br>DCV Voz = GREATER OF RaA/EZ OR 20% Voz  |
|  |   |   | PLATTEKILL BUILDING/EQUIPMENT VENTILATION CALCULATIONS  |
|  |   | EQ  | Image: Normal Sector |
|  |   |   | 14       GRADE 3 CLRM       Classrooms (age 9 plus)       767       35       27       10       270       0.12       92       362       0.8       460       1100       0.42         17       GRADE 3 CLRM       Classrooms (age 9 plus)       911       35       32       10       320       0.12       109       429       0.8       540       1250       0.43         15       GRADE 3 CLRM       Classrooms (age 9 plus)       792       35       28       10       280       0.12       95       375       0.8       470       100       0.43         P104       LIBRARY/MEDIA       Media center       2138       25       54       10       540       0.12       257       797       0.8       100       3200       0.31   |
|  |   | ٦   | 19       SP. ED CLRM       Classrooms (age 9 plus)       778       35       28       10       280       0.12       93       373       0.8       470       1250       0.38         16       GRADE 4 CLRM       Classrooms (age 9 plus)       790       35       28       10       280       0.12       95       375       0.8       470       1250       0.38         18       GRADE 4 CLRM       Classrooms (age 9 plus)       780       35       28       10       280       0.12       94       374       0.8       470       1250       0.38         20       COMPUTER LAB       Classrooms (age 9 plus)       852       35       30       10       300       0.12       93       373       0.8       470       1250       0.38         21       SP. ED.CLRM       Classrooms (age 9 plus)       773       25       28       10       280       0.12       93       373       0.8       470       1100       0.43  |
|  |   |   | 21       OF LD OLIVITY       Classification (dge 5 pids)       170       55       20       100       200       0.12       000       0.00       470       1100       0.145         22       OP/PT       Office space       579       5       3       5       15       0.06       35       50       0.8       70       870       0.08         111A       SECURITY OFFICE       Office space       100       5       1       5       5       0.06       6       11       0.8       20       150       0.13         V1-3       CORRIDOR       Corridors       4495       0       0       0       0.06       270       270       0.8       340       1300       0.26         42       ROOM       Kitchen (cooking)       346       20       7       8       53       0.12       42       94       0.8       120       1000       0.12  |
|  |   |   | ATU-D-3       NURSE OFFICE       Office space       468       5       3       5       15       0.06       10       15       0.08       100       0.08       100       0.08       0.08       0.00       0.08       0.00       0.08       0.00       0.08       0.00   |
|  |   | NOTE<br>Rp = F<br>Vpz =   | CTU-D-2       35       GYMNASIUM       Multiuse assembly       3763       100       377       7.5       2828       0.06       226       3053       0.8       3820       5670       0.67         S:       PEOPLE OUTDOOR AIR RATE, Ra = AREA OUTDOOR AIR RATE, Vbz = BREATHING ZONE OUTDOOR AIRFLOW, Ez = AIR DISTRIBUTION CONFIGURATION, Voz = ZONE OUTDOOR AIRFLOW       Score and an and a stress of a str  |
|  |   | Vou =   | UNCORRECTED OUTDOOR AIR INTAKE, D = OCCUPANT DIVERSITY, Ev = SYSTEM VENTILATION EFFICIENCY  |
|  |   |   | SYSTEM VALUES RTU-D-4Vps13650(UNCORRECTED OA) Vou3909(CORRECTED OA) Vot4575D1.00OA%34Ev0.85ADDITIONAL OA%17   |
|  |   |   | SYSTEM VALUES RTU-D-3<br>Vps 5840 (UNCORRECTED OA) Vou 1156<br>(CORRECTED OA) Vot 1410 D 1.00   |
|  |   |   | OA% 24 EV 0.82<br>ADDITIONAL OA% 22<br>SYSTEM VALUES RTU-D-2  |
|  |   |   | Vps       6900       (UNCORRECTED OA) Vou       3705         (CORRECTED OA) Vot       4290       D       1.00         OA%       62       Ev       0.86  |
|  |   |   | ADDITIONAL OA% 16   |

|            | 6    |           |     | 7   |  | 8  |   | 9  |   |  |                          | 10                                  |                       |       |        | 11                    |                                      |  |   |
|------------|------|-----------|-----|---|--|--|---|--|---|--|--------------------------|-------------------------------------|-----------------------|-------|--------|-----------------------|--------------------------------------|--|---|
|            |      |           |     |   |  | ROOFT  | OP U  | NIT (F   | RTU   | ) SCHE   | EDU                      | ILE                                 |                       |       |        |                       |                                      |  |   |
|            |      |           | _   |   |  | EXHAUST FA   | N (QTY=2)   |  |   |  |                          | ELEC                                | TRICAL                | CONNE | ECTION |                       | 1                                    | 1  | CO  |
| SP<br>-wg) | RPM  | VFD FREQ. | HP  | EXHAUST AIR<br>(CFM)                                    | MIN. EXHAUST<br>(CFM)  | FAN ARR  | ESP<br>(in-wg)  | TSP<br>(in-wg)                                       | RPM   | VFD FREQ.  | HP                       | V/PH                                | FLA                   | MCA   | MOCP   | ROWS                  | EDB<br>(°F)                          | EWB<br>(°F)  | LDB<br>(°F)   |
| .81        | 2180 | 74        | 7.5 | 4670  | 1700   | 15" DD PLENUM  | 0.50  | 2.76   | 2272  | 77   | 2                        | 208/3                               | 45 A                  | 52 A  | 70 A   | 4                     | 77.1                                 | 65.5   | 56.1  |
| EAK.<br>T. |      |           | 6.  | PROVIDE HIG<br>A. VENTIL/<br>a. SI<br>b. W<br>B. EXHAUS | H EFFICIENCY E<br>ATION: 4700 CFN<br>JMMER= EDB:84<br>INTER= EDB:7.0<br>ST: 4700 CFM, EN | ENERGY WHEEL WI<br>1, PD: 0.6 in-wg<br>I.2∘F, EWB:75.0∘F, L<br>∾F, EWB:3.0∘F, LDB<br>NTERING SUMMER: | TH RETURI<br>_DB: 77.3ºF<br>: 49.2ºF, LV<br>75.0ºF/65.( | N AIR REC<br>, LWB: 68.∕<br>VB: 35.7ºF,<br>№F, ENTEF | IRCULA<br>IºF, 70.8<br>73.3% <sup>-</sup><br>RING W | ATION AND B<br>3% TOTAL EF<br>TOTAL EFFEC<br>INTER: 65.0°F | YPASS<br>FECTI<br>CTIVEN | S DAMP<br>VENES<br>NESS<br>F, PD: 0 | ERS.<br>S<br>.6 in-wg | I     |        | 7.<br>8.<br>9.<br>10. | PROV<br>PROV<br>ROOF<br>PROV<br>PROV | /IDE INT<br>/IDE SPI<br>F CURB<br>/IDE EXT<br>/IDE H-C | ERLACEE<br>RING ISOI<br>PER DET,<br>FERIOR T<br>D-A SWIT( |
|            |      |           |     |   |  |  |   |  |   |  |                          |                                     |                       |       |        |                       |                                      |  |   |

| E | ELECTRIC |  |  |  |       |  |
|---|----------|--|--|--|-------|--|
|   |          |  |  |  | OPER. |  |



| rol No. 62-1                       | 8-01-06-0-005-015         |
|------------------------------------|---------------------------|
|                                    |                           |
| SED Add No. 1<br>Description:      |                           |
|                                    | LLKILL<br>SCHOOL DISTRICT |
| AR SOLUTIONS                       | SE                        |
| ieers, Architects<br>hitects, P.C. | Ø, r                      |
| <b>TET</b><br>ARCHITE              | RATECH<br>CTS & ENGINEERS |
| entral Schoo<br>ew York            | ol District               |
| ction to:<br>Iementary S           | School                    |
| 6                                  |                           |
| Date:<br>11/4/2022                 | Drawing Number:           |
| 001                                | DM600                     |
|                                    |                           |



| 2 13 14   | 15 16 17   |  |                   |
|---|--|--|-------------------|
|   | C HWR  | TEMPERATURE CO                                       | NTROLS            |
|   |  |  |                   |
| OUTSIDE AIR ST DI OUTSIDE AIR AI ST   |  | AO ANALOG OUT  |                   |
| TEMPERATURE SENSOR  |  |  |                   |
|   | COM AI FREEZESTAT TS AIR TEMP.   | - CS AIRBORNE CONTAMINANT SE                         | NSOR              |
|   | VFD TS DI AI TEMP  | DI DIGITAL IN  |                   |
|   |  |  |                   |
|   |  | DO DIGITAL OUT                                       |                   |
|   |  | EMCS ENERGY MANAGEMENT CON                           | IROL SYSTEM       |
|   | AI AI FUTURE<br>COOLING TS   | - FLOW (WATER/AIR)                                   |                   |
|   |  | (FM) FLOW METER                                      |                   |
| RECIRCULATION RETURN<br>DAMPER FAN  | AIR AIR TEMP.  | C FS AIR FLOW SENSOR                                 |                   |
|   |  |  |                   |
|   |  |  |                   |
|   | S DO AIR TEMP.<br>TYPICAL  |  |                   |
|   | AO<br>TS-SPACE TEMPERATURE SENSOR  |  |                   |
|   |  | □ MANUAL SWITCH STOP / STAP                          | RT                |
| ALVE CONTROL) W/ENERGY RECOVERY - SEQUENCE OF OPERATIONS:   |  |  |                   |
| MPERATURE SENSORS MOUNTED IN CONTROLLED SPACES IN APPROPRIATE L   | OCATIONS AS REQUIRED TO MAINTAIN PROPER CONTROL. SHOW INDIVIDUAL AND   | ΔP) DIFFERENTIAL PRESSURE                            |                   |
| С.  |  |  |                   |
| N SHALL RUN CONTINUOUSLY. THE SUPPLY FAN SHALL RUN AT THE FREQUEN   |  |  |                   |
| ON EXCEPT IN CASE OF ALARM. RUN THE ENERGY RECOVERY WHEEL.<br>JRE HEATING (68°F ADJ.) AND MAXIMUM AVERAGE RETURN AIR RELATIVE HUMI  | DITY SETPOINT OF 60% (ADJ.). ALL SETPOINTS SHALL BE ADJUSTABLE AT THE  |  |                   |
| TS FOR INDIVIDUAL PREFERENCES IN THE RESPECTIVE ZONE THERMOSTATS.<br>ATING CONTROL VALVE AS REQUIRED TO MAINTAIN OUTDOOR AIR RESET OF H<br>E FROM 70 DEG. F (ADJ.) TO 90 DEG. F (AD.L) AS THE OUTDOOR AIR TEMPERATI | OT DECK TEMPERATURE. VARY HOT DECK TEMPERATURE INVERSELY WITH<br>IRE VARIES FROM 55 DEG. F (ADJ.) TO 10 DEG. F (AD.L.) ABOVE AND BELOW THESE   |  |                   |
| HE HOT DECK TEMPERATURE SHALL REMAIN CONSTANT AS POSSIBLE WITHIN I<br>S REQUIRED TO MAINTAIN SMOOTH TEMPERATURE CONTROL OF DISCHARGE A  | EQUIPMENT RESTRAINTS. MODULATE INDIVIDUAL ZONE BLADES TO MIX HOT AND<br>IR TEMPERATURE AND ZONE SETPOINTS. ADJUST RESET SCHEDULE DURING THE  | (START) STARTER                                      |                   |
| SED ECONOMIZER COOLING PRIOR TO USING MECHANICAL COOLING. REFER T   | O GENERAL SPECIFICATION ENTHALPY ECONOMIZER CONTROLS FOR MORE  |  |                   |
| ZER COOLING: TURN OFF THE ENERGY RECOVERY WHEEL.<br>DNOMIZER COOLING: MODULATE THE ECONOMIZER (OUTSIDE AND EXHAUST AIF  | R) DAMPERS OPEN AS REQUIRED, WHILE MAINTAINING AT MINIMUM 55°F RTU   | TS TEMPERATURE SENSOR                                |                   |
| RATURE.<br>ZONE BLADES BETWEEN HOT AND NEUTRAL DECKS, AND BETWEEN COLD AND<br>IPERATURE AND ZONE SETPOINTS.   | NEUTRAL DECKS, AS REQUIRED TO MAINTAIN SMOOTH TEMPERATURE CONTROL  | L VFD VARIABLE FREQUENCY DRIVE                       | <u>-</u>          |
|   |  | WS WATER SENSOR                                      |                   |
| A OUTSIDE AIR REQUIREMENT DURING THE UNOCCUPIED PERIOD; CONTROL TH<br>CULATION DAMPERS TO BE 100% OPEN. MODULATE THE OUTSIDE AIR AND EXH  | IE OUTSIDE AIR AND EXHAUST AIR DAMPERS TO BE SHUT DURING HEATING<br>AUST AIR DAMPERS OPEN, AND THE RECIRCULATION DAMPER CLOSED, AS   | % PERCENT  |                   |
| UNOCCUPIED PERIOD ECONOMIZER COOLING SET POINT.<br>IST FANS INTERMITTENTLY AT REDUCED CFM AS REQUIRED TO MAINTAIN A REI<br>WITHIN THE SET-POINT DEAD-BAND (ADJ.). AND CONTINUOUSLY MODULATE THE                     | DUCED SPACE TEMPERATURE HEATING SET-POINT (INITIALLY 65°F). THE FANS TO<br>E SPEED OF THE SUPPLY AND EXHAUST FAN VARIABLE SPEED DRIVES AS A  | ES END SWITCH  |                   |
| I FROM THE SETPOINTS AS REQUIRED, PROPORTIONAL TO THE LARGEST PERC<br>DJUSTABLE AT THE OWS.   | ENTAGE OPEN POSITION OF THE HEATING VALVE OR THE OUTSIDE AIR DAMPER.   |  |                   |
| E. VARY HOT DECK TEMPERATURE INVERSELY WITH OUTDOOR AIR RI<br>1 55 DEG. F (ADJ.) TO 10 DEG. F (ADJ.). ABOVE AND BELOW THESE OUTDOOR TE  | URE FROM 80 DEG. F (ADJ.) TO 100 DEG. F (ADJ.), AS THE OUTDOOR AIR<br>MPERATURES THE HOT DECK TEMPERATURE SHALL REMAIN CONSTANT AS   | ت<br>ع   |                   |
| T RESTRAINTS. ADJUST RESET SCHEDULE AND DEADBAND AS REQUIRED DURI<br>RATURE HEATING SETPOINTS.<br>S AS REQUIRED TO ACHIEVE SETPOINT RAPIDLY WITHOUT OVERHEATING INDIV   | NG THE FIRST YEAR OF OPERATION TO MINIMIZE ENERGY USE, SHORT CYCLING,  |  |                   |
| FIN TUBE RADIATION SERVING THE SAME SPACE, PROVIDE SEPARATE LOWER   | SET-POINT FOR AIR HANDLER SO FANS OPERATE ONLY WHEN FIN TUBE IS NOT  |  |                   |
| OOR AIR TEMPERATURE VARIES, FROM 20% (ADJ.) AT 36 DEG. F (ADJ.) TO 50% (  | ADJ.) AT 0 DEG. F (ADJ.).  |  |                   |
| ED BETWEEN UNOCCUPIED AND OCCUPIED MODES.   |  |  |                   |
| PIED TO WARMUP MODES SHALL BE PART OF THE STAGGERED START SCHEDU<br>ODE, RUN THE SUPPLY AND EXHAUST FANS CONTINUOUSLY AND MODULATE T<br>RIOD TEMPERATURE SET POINT.   | ILE.<br>HE ZONE BLADES AND HEATING CONTROL VALVE,AS REQUIRED TO ACHIEVE AND  | т  |                   |
| AUST AND RECIRCULATION AIR DAMPERS IN THE UNOCCUPIED POSITION UNTIL<br>IR PROPER OCCUPIED MODE POSITION. AVOID SUDDEN TEMPERATURE SWING   | MORNING WARM-UP OR COOL DOWN HAS BEEN ACCOMPLISHED, THEN SLOWLY<br>S AND ACTIVATION OF THE LOW TEMPERATURE LIMIT. TIMING OF WARMUP MODE  |  |                   |
| FULLAIR CHANGE FURGE BEFORE THE BEGINNING OF THE OCCUPIED PERIO   | D SCHEDULED.   |  |                   |
| AL PRESSURE SWITCHES ACROSS EACH FILTER BANK; ALARM THE OWS WHEN  | THE FILTERS (AND WHICH FILTER BANK) EXCEED THEIR DIFFERENTIAL PRESSURE   |  |                   |
| AN VIA FEEDBACK FROM VSD. WHEN THE SPEED COMMAND AND FEEDBACK ST<br>ECTION VIA ANALOG TEMPERATURE SENSOR AT EXPECTED FREEZE LOCATION<br>G. F ADJUSTABLE) STOP THE SUPPLY FAN, FULLY CLOSE THE OUTSIDE AIR DAM       | ATUS DO NOT AGREE, GENERATE AN ALARM AT THE OWS.<br>AND "LOWEST FOOT" STYLE MANUAL RESET FREEZESTAT. WHENEVER FREEZE-<br>IPER. POSITION THE HEATING THREE-WAY CONTROL VALVE FULLY OPEN TO COIL |  |                   |
| · · · · · · · · · · · · · · · · · · ·   |  | S.E.D. Control No. 62-1                              | 8-01-06-0-005-015 |
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|   |  | Rev. No.: Date: Description:                         |                   |
| Jnit - RTU-D-3  |  | $\overline{\mathbf{T}}$                              | т т титт т        |
|   |  |  | LLKILL            |
|   |  | - Established 1938 CENTRAL                           | SCHOOL DISTRICT   |
| UIRED TO MAINTAIN REQUIRED MINIMUM VENTILATION. HEATING SETPOINT  |  |  | λ                 |
| CY DRIVE AS A FUNCTION OF THE DEVIATION FROM THE SETPOINTS AS<br>AR DAMPER. MODULATE THE SPEED OF THE EXHAUST FAN VARIABLE<br>AD JUSTARIE AT THE OWS. BUILDED Y FAN AT THE (FULL AIRELOW)                           |  |  |                   |
| ADJUSTABLE AT THE OWS. KON SUPPLY PAN AT THE (FULL AIKFLOW)   |  | CLEAR SOLUTIONS                                      | $\sim$            |
| MANUFACTURER AS PART OF SYSTEM COMMISSIONING WORK.<br>MPERS TO THE POSITION REQUIRED TO MAINTAIN THE MINIMUM OUTSIDE  |  | Tetra Tech Engineers, Architects                     |                   |
| NG OCCUPANCY EXCEPT IN CASE OF ALARM. PROVIDE FOR EVENT MODE /<br>D EVENT MODE FOR A PERIOD OF ONE HOUR. NEVER POSITION THE   | RELIEF AIR   | <ul> <li>&amp; Landscape Architects, P.C.</li> </ul> | V                 |
| E WAY CONTROL VALVE AS REQUIRED TO MEET THE HEATING   |  |  |                   |
| CANNOT MAINTAIN THE SPACE COOLING REQUIREMENTS, ENABLE  | ROOF TOP HOOD - RELIEF - SEQUENCE OF OPERATIONS:   |  | RA TECH           |
| -OINT.  | INTERLOCK THE OPERATION OF THE ROOFTOP HOODS<br>WITH THEIR ASSOCIATED HEATING AND/OR COOLING<br>EQUIPMENT.   | ARCHITE  | CTS & ENGINEERS   |
| ONOMIZER BYPASS DAMPERS SHALL BE CLOSED. RECIRCULATION DAMPER   | 2. OCCUPIED MODE:  |  |                   |
| TEMPERATURE SETPOINT 65°F (ADJ.).<br>COOLING, OPEN THE OUTSIDE AIR, EXHAUST AIR, ENERGY WHEEL<br>AND EXHAUST FANS, PLIN FANS AT THE ODEED DECUMPED TO MANY THE STREET   | a. WHERE SPACE HAS AN EXHAUST FAN, AUTOMATIC<br>AIR DAMPER SHALL REMAIN CLOSED UNITL THE<br>OUTSIDE AIR DAMPER ON ASSOCIATED HEATING   | Wallkill, New York                                   |                   |
| SE THE DAMPERS.<br>E 100% (ADJ.) OPEN TO COIL.  | AND/OR COOLING EQUIPMENT OPENS PAST ITS<br>MINIMUM POSITION. ONCE OPEN, INTERLOCK THE  |  |                   |
|   | b. WHERE THERE IS NO EXHAUST FAN, MODULATE<br>THE AUTOMATIC AIR DAMPER OPEN AS THE   | ■ Reconstruction to:                                 |                   |
| LING OR MECHANICAL COOLING AS REQUIRED TO MAINTAIN TEMPERATURE  | ASSOCIATED HEATING AND/OR COOLING<br>EQUIPMENT OUTSIDE AIR DAMPER MODULATES<br>OPFN  | Plattekill Elementary S                              | School            |
| HED. WHEN MORNING WARM-UP HAS BEEN ACCOMPLISHED, SLOWLY<br>ATION OF THE LOW TEMPERATURE LIMIT. TIMING OF WARMUP MODE SHALL  | 3. UNOCCUPIED MODE:  |  |                   |
|   | a. AUTOMATIC AIR DAMPER SHALL BE CLOSED.   | Control Sequences                                    |                   |
| S (AND WHICH FILTER BANK) EXCEED THEIR DIFFERENTIAL PRESSURE LIMIT.   | 4. WARM-UP MODE:<br>a. AUTOMATIC AIR DAMPER SHALL BE CLOSED  | · · · · · · · · · · · · · · · · · · ·                |                   |
| RESSOR STATUS DO NOT AGREE, GENERATE AN ALARM AT THE OWS.<br>ST FOOT" STYLE MANUAL RESET FREEZESTAT. WHENEVER FREEZE-UP   |  | z Drawn By: Date:<br>JPF1/pgm 11/4/2022              | Drawing Number:   |
| ZEALAUST AIN DAIVIFERS, FULLT UPEN THE RECIRCULATION DAMPER,  | Roof Top Hood - Relief   |  |                   |
|   | L NTS  | 1/59/-22001  |                   |
|   |  |  |                   |




















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| rol No. 62-1                        | 8-01-06-0-005-015         |
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| Description:                        |                           |
|                                     | SCHOOL DISTRICT           |
| AR SOLUTIONS                        | Str                       |
| neers, Architects<br>chitects, P.C. | BID                       |
| <b>TET</b><br>ARCHITE               | RATECH<br>CTS & ENGINEERS |
| entral Schoo<br>ew York             | ol District               |
| ction to:<br>Elementary \$          | School                    |
|                                     |                           |
| Date:<br>11/4/2022                  | Drawing Number:           |
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| ш | TYPE SYMBOL DESCRIPTION   | MANUFACTURERS (OR EQUAL)                                |    |
|   |   | NAME MODEL OR SERIES                                    |    |
|   | EM BATTERY 16 2000 LED  | (DAY-BRITE) 2FPZ20L835-2-DS-UNV-DIM                     |    |
|   | 2         2' x 2' FLAT PANEL (RECESSED IN GRID)         29         3800         LED             | SIGNIFY<br>(DAY-BRITE) 2FPZ38L835-2-DS-UNV-DIM          |    |
|   | 3         2' x 2' FLAT PANEL (RECESSED IN GRID)         36         4500         LED             | SIGNIFY<br>(DAY-BRITE) 2FPZ45L835-2-DS-UNV-DIM          |    |
|   | 2' x 2' FLAT PANEL (RECESSED IN GRID) - WITH INTEGRAL   |   |    |
|   | 3EM BATTERY 36 4500 LED   | (DAY-BRITE)   |    |
|   | 4 O 4" ROUND DOWNLIGHT 8.8 868 LED  | SIGNIFY<br>(LEDALITE) L4R10935VB / L4RDW                |    |
|   | 5 2' x 2' FOOD PROCESSING LUMINAIRE (RECESSED IN GRID) 45 4500 LED                              | KENALL<br>LIGHTING 45LD-35K8-DIM1-DV-5F-4H              |    |
| 0 | 5EM     SAME AS TYPE 4 - WITH INTEGRAL BATTERY     45     4500     LED                          | KENALL<br>LIGHTING 45LD-35K8-DIM1-DV-5F-4H              |    |
|   | 6 2' x 2' EOOD PROCESSING LUMINAIRE (RECESSED IN GRID) 45 4500 LED                              | KENALL 45LD-35K8-DIM1-DV-5F-4H                          |    |
|   |   |   |    |
|   | 6EM     SAME AS TYPE 4 - WITH INTEGRAL BATTERY     45     4500     LED                          | LIGHTING 45LD-35K8-DIM1-DV-5F-4H                        |    |
| _ | 20 EXIT SIGN (SINGLE/DOUBLE FACE) CEILING MOUNT SEE<br>PLANS FOR DIRECTIONAL INDICATORS 2.5 LED | SIGNIFY<br>(CHORIDE) ER46L-2-W-R                        |    |
|   |   | * MANUFACTURER AND MODEL<br>NUMBER ARE PROVIDED TO SHOW |    |
|   |   | BASIS OF DESIGN ONLY.                                   |    |
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|         | LUMINAIRE SCHEDULE   |  |         |        |      |                          |                         |  |  |
|---------|--|--|---------|--------|------|--------------------------|-------------------------|--|--|
|         |  | DECODIPTION  |         | LAMPS  |      | MANUFACTURERS (OR EQUAL) |                         |  |  |
| TYPE    | SYMBOL   | DESCRIPTION  | WATTAGE | LUMENS | TYPE | NAME                     | MODEL OR SERIES         |  |  |
| 1<br>EM |  | 2' x 2' FLAT PANEL (RECESSED IN GRID) - WITH INTEGRAL<br>BATTERY                     | 16      | 2000   | LED  | SIGNIFY<br>(DAY-BRITE)   | 2FPZ20L835-2-DS-UNV-DIM |  |  |
| 2       |  | 2' x 2' FLAT PANEL (RECESSED IN GRID)  | 29      | 3800   | LED  | SIGNIFY<br>(DAY-BRITE)   | 2FPZ38L835-2-DS-UNV-DIM |  |  |
| 3       |  | 2' x 2' FLAT PANEL (RECESSED IN GRID)  | 36      | 4500   | LED  | SIGNIFY<br>(DAY-BRITE)   | 2FPZ45L835-2-DS-UNV-DIM |  |  |
| 3EM     |  | 2' x 2' FLAT PANEL (RECESSED IN GRID) - WITH INTEGRAL<br>BATTERY                     | 36      | 4500   | LED  | SIGNIFY<br>(DAY-BRITE)   | 2FPZ45L835-2-DS-UNV-DIM |  |  |
| 4       | $\bigcirc$   | 4" ROUND DOWNLIGHT   | 8.8     | 868    | LED  | SIGNIFY<br>(LEDALITE)    | L4R10935VB / L4RDW      |  |  |
| 5       |  | 2' x 2' FOOD PROCESSING LUMINAIRE (RECESSED IN GRID)                                 | 45      | 4500   | LED  | KENALL<br>LIGHTING       | 45LD-35K8-DIM1-DV-5F-4H |  |  |
| 5EM     |  | SAME AS TYPE 4 - WITH INTEGRAL BATTERY   | 45      | 4500   | LED  | KENALL<br>LIGHTING       | 45LD-35K8-DIM1-DV-5F-4H |  |  |
| 6       |  | 2' x 2' FOOD PROCESSING LUMINAIRE (RECESSED IN GRID)                                 | 45      | 4500   | LED  | KENALL<br>LIGHTING       | 45LD-35K8-DIM1-DV-5F-4H |  |  |
| 6EM     |  | SAME AS TYPE 4 - WITH INTEGRAL BATTERY   | 45      | 4500   | LED  | KENALL<br>LIGHTING       | 45LD-35K8-DIM1-DV-5F-4H |  |  |
| 20      |  | EXIT SIGN (SINGLE/DOUBLE FACE) CEILING MOUNT SEE<br>PLANS FOR DIRECTIONAL INDICATORS | 2.5     |        | LED  | SIGNIFY<br>(CHORIDE)     | ER46L-2-W-R             |  |  |
|         | * MANUFACTURER AND MODEL<br>NUMBER ARE PROVIDED TO SHOW<br>BASIS OF DESIGN ONLY. |  |         |        |      |                          |                         |  |  |

S.E.D. Contro Rev. No.: Date: D. the second strange complex world CLEAR Tetra Tech Enginee & Landscape Archi TŁ Wallkill Cer Wallkill, Nev

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Schedules Drawn By: CR

Project No.: 17597-2200

| rol No. 62-1                      | 8-01-06-0-005-015           |
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|                                   |                             |
| Description:                      |                             |
| CENTRAL                           | SCHOOL DISTRICT             |
|                                   |                             |
| AR SOLUTIONS                      |                             |
| eers, Architects<br>hitects, P.C. | $\mathcal{O}_{\mathcal{I}}$ |
| <b>TET</b><br>ARCHITE             | RATECH<br>CTS & ENGINEERS   |
| entral Schoo<br>ew York           | ol District                 |
| ction to:<br>Elementary S         | School                      |
| 3                                 |                             |
| Date:<br>11/4/2022                | Drawing Number:             |
| 001                               | DE600                       |
|                                   |                             |



| 「 /<br>ET<br>E | RPM  | HORSE<br>POWER | FULL LOAD<br>AMPS | VOLTAGE | PHASE | HERTZ | NOTES |  |
|----------------|------|----------------|-------------------|---------|-------|-------|-------|--|
| ;              |      |                |                   |         |       |       |       |  |
|                | 3500 | 5              | 15                | 208     | 3     | 60    | 1, 2  |  |
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| MAXIMUM<br>ALLOWABLE<br>PRESSURE<br>(PSI) | DIAMETER<br>(INCHES)                             | HEIGHT<br>(INCHES)                                  | CONNECTION<br>(NPT)  | NOTES  |
|---|--|---|--|--|
| 150                                       | 16   | 49  | 1  | 1, 2   |
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|   | MAXIMUM<br>ALLOWABLE<br>PRESSURE<br>(PSI)<br>150 | MAXIMUM<br>ALLOWABLE<br>PRESSURE<br>(PSI)<br>150 16 | MAXIMUM<br>ALLOWABLE<br>PRESSURE<br>(PSI)DIAMETER<br>(INCHES)HEIGHT<br>(INCHES)1501649 | MAXIMUM<br>ALLOWABLE<br>PRESSURE<br>(PSI)DIAMETER<br>(INCHES)HEIGHT<br>(INCHES)CONNECTION<br>(NPT)15016491 |







|  | General Code  |
|--|---|
| ROJECT LOCATION:<br>3 MILL STREET, WALLKILL, NY 12589<br>OUNDED BY BONA HEINSMAN LANE TO THE EAST, MILL STREET TO THE NORTH, AND NY INTERSTATE 87 TO   | A. COORDINATE WIT<br>PARTITION TYPES<br>IMMEDIATELY NOT   |
| HE WEST.<br><u>ROJECT DESCRIPTION:</u><br>HIS PROJECT INCLUDES THE RENOVATION OF THE MAIN ENTRANCE TO CREATE A SECURITY VESTIBULE  | B. ALL WALLS, INCLU<br>COMPLETELY TO  |
| ICLUDING A SECURITY OFFICE. THE PROJECT ALSO INCLUDES THE RECOATING AND SELECT<br>EPLACEMENT OF THE EXISTING FOAM ROOF SYSTEM, ROOF STRUCTURE REINFORCEMENT AND<br>SSOCIATED CEILING WORK, AND REPLACEMENT OF DOOR HARDWARE WITH NEW LOCKDOWN HARDWARE.  | C. AT AREAS OF PRO  |
| ORK GENERALLY CONSISTS OF THE FOLLOWING:<br>LTERATIONS - LEVEL 1<br>LOCKDOWN DOOR HARDWARE UPGRADES<br>ROOF RECOATING AND SELECT REPLACEMENT   | RATINGS IDENTIFI<br>NEW OR EXISTING   |
| LTERATIONS - LEVEL 2<br>RECONFIGURATION OF MAIN ENTRANCE FOR SECURITY<br>ROOF STRUCTURAL REINFORCEMENT   | <sup>™</sup> Legend   |
| PPLICABLE CODES AND STANDARDS:<br>ASED ON THE NEW YORK STATE UNIFORM FIRE PREVENTION AND BUILDING CODE INCLUDING APPLICABLE  | ALL WALLS, INCLUDING<br>OR FLOOR DECK ABOVE   |
| 018 ICC CODES, 2020 BUILDING CODE of NYS INCLUDING THE 2020 BCNYS, 2020 EBCNYS AND 2020 ECCNYS,<br>CC A117.1-09 STANDARD FOR ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES AND COMMISSIONER OF<br>DUCATIONS 155 REGULATIONS (SED MPS-98).   | RW RESCUE   |
| UILDING DATA:<br>UILDING: LEPTONDALE ELEMENTARY SCHOOL<br>48 MILL STREET   | 1959 ORI  |
| ESCRIPTION: TWO STORY MASONRY AND REINFORCED   | 1965 BUI  |
| EAR BUILT: 1959 DREYER & CLARK ARCHITECTS  | 1973 BUI  |
| UILDING AREA: 1ST FLOOR 35,957 SQFT<br>2ND FLOOR 22,851 SQFT<br>TOTAL GROSS AREA= 58 808 SOFT  |   |
|  |   |
| ONSTRUCTION TYPE -   | -   |
| NEW: IIB   |   |
| VORK AREA: LOCATION AREA % OF TOTAL  | ш   |
| 151 FLOOK 237 SQF1 0.40%<br>2ND FLOOR 0 SQFT 0%  |   |
| OKKIDOK DOOKS: ALL CORRIDOR DOORS SCHEDULED TO BE REPLACED SHALL HAVE<br>MINIMUM FIRE DOOR ASSEMBLY RATING OF 20 MINUTES IN<br>ACCORDANCE WITH SECTION 716.5   |   |
| ATH OF CODE COMPLIANCE:<br>018 IEBC CODES AND 2020 EXISTING BUILDING CODE of NYS<br>301.1.2 WORK AREA COMPLIANCE METHOD  | -   |
| HAPTER 6 - CLASSIFICATION OF WORK<br>602 ALTERATION - LEVEL 1 (CHAPTER 7)<br>603 ALTERATION - LEVEL 2 (CHAPTER 8)  |   |
| EW CONSTRUCTION WILL COMPLY WITH REQUIREMENTS OF 2018 ICC CODES, 2020 BUILDING CODE of NYS<br>ICLUDING THE 2020 BCNYS, 2020 EBCNYS AND 2020 ECCNYS, ICC A117.1-09 STANDARD FOR ACCESSIBLE<br>ND USABLE BUILDINGS AND FACILITIES AND COMMISSIONER OF EDUCATIONS 155 REGULATIONS (SED  | -   |
| PS-98).<br>XIT TRAVEL DISTANCE (PER TABLE 1017.2):<br>FOR EXIT TRAVEL DISTANCE - SEE BG351.  |   |
| ORRIDOR ENCLOSURES (PER TABLE 1020.1):<br>FOR CORRIDOR FIRE RESISTANCE - SEE ENLARGED PLANS, PARTITION TYPES AND DOOR SCHEDULE.<br>ALL CROSS CORRIDOR PARTITIONS ARE SMOKE PARTITIONS AND EXTEND FROM FINISH FLOOR TO  |   |
| DECK ABOVE.  | _   |
|  |   |
| <u>JL DESIGN NUMBERS:</u> <u>IN</u> TERIOR FINISH REQUIREMENTS:  |   |
| JL DESIGN NUMBERS:       INTERIOR FINISH REQUIREMENTS:         HR. STUD PARTITIONS       UL# U465         ALL FINISHES IN CORRIDORS AND ASSEMBLY SPACES SHALL HAVE A         FIRE HAZARD CLASSIFICATION PER MANUAL OF PLANNING         OTES:   | т<br>А  |
| JL DESIGN NUMBERS:       INTERIOR FINISH REQUIREMENTS:         HR. STUD PARTITIONS       UL# U465         OTES:       ALL FINISHES IN CORRIDORS AND ASSEMBLY SPACES SHALL HAVE A         FIRE HAZARD CLASSIFICATION PER MANUAL OF PLANNING       STANDARDS SECTION S202-2, a. THROUGH e.         STANDARDS SECTION S202-2, a. THROUGH E.       STANDARDS SECTION S202-2, a. THROUGH E.   | т<br>А  |
| JL DESIGN NUMBERS:       Interior supervised of the state of the stat | т<br>А  |
| JL DESIGN NUMBERS:       INTERIOR FINISH REQUIREMENTS:         HR. STUD PARTITIONS       UL# U465         OTES:       RATING PROVIDED BY 4" SOLID CONCRETE MASONRYNITS - DETERMINATION OF EQUIVALENT THICKNESS OF MU REQUIRED IS BASED ON SECTION 721 PRESCRIPTIVE RE RESISTANCE, TABLE 721.1 (2) RATED FIRE ESISTANCE PERIODS FOR VARIOUS WALLS AND ARTITIONS, ITEM NUMBER 3-1.2         ALL CMU CONSTRUCTION SHALL MEET FIRE         ESISTANCE REQUIREMENTS INDICATED IN CHART OF AME NAME ABOVE, BLOCK TYPE AS REQUIRED TO OMPLY WITH UL DESIGN NUMBERS AND AS REQUIRED TO OMPLY WITH RATED WALLS INDICATED ON CODE   | S.E.D. Contro   |
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### ASBESTOS ABATEMENT NOTES

LEPTONDALE ELEMENTARY RECONSTRUCTION:

LICENSED ASBESTOS ABATEMENT CONTRACTOR IS RESPONSIBLE FOR TOTAL AND COMPLETE REMOVAL AND DISPOSAL OF ASBESTOS CONTAINING (ACM) TAR AT MECHANICAL EQUIPMENT CURBS AND ON DECK.

ROOFING, AS DETAILED ON ATTACHED ACM LOCATION DRAWINGS. LICENSED ASBESTOS ABATEMENT CONTRACTOR RESPONSIBLE FOR TOTAL AND COMPLETE REMOVAL AND DISPOSAL OF APPROXIMATELY 360 SF OF NON-FRIABLE ASBESTOS CONTAINING ROOF MATERIALS, FLASHING TAR, PITCH POCKET TAR, EQUIPMENT/FLASHING TAR TO THE ROOF DECK, ALL CURBS ARE TO BE REMOVED AS ACM. LEAVING A CLEAN ROOF DECK WITH NO VISIBLE ACM MATERIALS. NOTE: THE BOTTOM MOST LAYER OF TAR ON THE METAL DECK IS POSITIVE FOR ACM.

REFER TO SPECIFICATION SECTION 02 08 00 - SECTION 3.17 FOR A DESCRIPTION OF THE WORK.

### ASBESTOS ABATEMENT LEGEND



POSITIVE ACM TAR ON DECK AND CURB TO BE REMOVED







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| <u>Ex</u> | sisting Conditions  | <u>Notes</u>  |      |
| A.        | THE FOLLOWING CONDITION<br>TEST CUT ANALYSIS. THE CO<br>VERIFY ALL EXISTING COND<br>REMOVAL OF ALL MATERIAL<br>LOCATIONS INDICATED:   | IS WERE OBSERVED DURING<br>ONTRACTOR IS REQUIRED TO<br>ITIONS AND PROVIDE A COMP<br>IS ABOVE THE ROOF DECK AT | LETE |
| В.        | TYPICAL AT ROOF CUTS #1,<br>- SILICONE COATING WITH G<br>- SPRAY POLYURETHANE FO<br>- BUILT-UP ROOFING<br>- FIBERGLASS INSULATION<br>- ASPHALTIC TAR<br>- TECTUM DECK<br>TOTAL THICKNESS ABOVE D                    | 2, 3, 8, & 9:<br>;RANULES<br>)AM INSULATION<br>)ECK= 8"   |      |
| C.        | TYPICAL AT ROOF CUTS #10<br>- SILICONE COATING WITH G<br>- SPRAY POLYURETHANE FO<br>- BUILT-UP ROOFING<br>- FIBERBOARD<br>- FIBERGLASS INSULATION<br>- METAL DECK<br>TOTAL THICKNESS ABOVE D                        | & 11:<br>;RANULES<br>)AM INSULATION<br>DECK = 8"  |      |
| D.        | TYPICAL AT ROOF CUT #4:<br>- SILICONE COATING WITH G<br>- SPRAY POLYURETHANE FO<br>- EPDM MEMBRANE<br>- POLYISOCYANURATE INSU<br>- POLY SHEETING<br>- PERLITE INSULATION<br>- METAL DECK<br>TOTAL THICKNESS ABOVE D | RANULES<br>OAM INSULATION<br>LATION<br>DECK = 10"   |      |
| E.        | TYPICAL AT ROOF CUTS #5,<br>- SILICONE COATING WITH G<br>- SPRAY POLYURETHANE FO<br>- POLYISOCYANURATE INSU<br>- GYPSUM DECK<br>TOTAL THICKNESS ABOVE D   | 6 & 7:<br>;RANULES<br>)AM INSULATION<br>LATION<br>)ECK = 6"   |      |
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### Keyed Roof Restoration Notes

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- (1R) PROVIDE COATED FOAMED ROOFING RESTORATION, TYPICAL ALL ROOF AREAS INDICATED ON PLAN. SEE SPECIFICATION SECTION 07 57 50 - COATED FOAMED ROOFING RESTORATION INCLUDING ROOF MOISTURE SCANS ATTACHED TO SPECIFICATION AND ROOF TYPE RS-3 DETAIL.
- (2R) PROVIDE CONTINUOUS 30" WIDE ROOF WALKWAY COATING SYSTEM, COORDINATE LOCATIONS WITH EXISTING P ENETRATIONS, VERIFY IN FIELD, SEE SECTION 07 57 50 - COAT FOAMED ROOFING RESTORATION.
- PROVIDE COATED FOAMED ROOF RESTORATION AT VERTICAL SURFACE, APPROXIMATE HEIGHT AS INDICATED ON PLAN, SEE SECTION 07 57 50 - COATED FOAMED ROOFING RESTORATION
- (4R) EXISTING EXPANSION JOINT LOCATION, PROVIDE CONTINUOUS MIN. WIDTH MESH REINFORCEMENT, TYPICAL AT ALL EXPANSION JOINTS, CRACKS, WALL BASE FLASHING, AND TERMINATION LOCATIONS, NOT ALL LOCATIONS ARE SHOWN ON PLAN, VERIF FIELD. SEE SECTION 07 57 50 - COATED FOAMED ROOFING RESTORATION. SEE DETAIL 20/ZA750.
- EXISTING ROOF DRAIN WITH PLASTIC OR MISSING STRAINER. REMOVE AND DISCARD PLASTIC STRAINER AND PROVIDE GALVANIZED CAST IRON ROOF DRAIN DOME.
- (6R) NEW PENETRATION AT EXISTING ROOFING SYSTEM. REMOVE EXISTING ROOFING MATERIALS TO ROOF DECK AND PATCH TO MATCH EXISTING MATERIALS AND THICKNESSES AFTER INSTALLATION OF PENETRATION PRIOR TO RECOATING. PROV DECK OPENINGS, FRAMES, AND INTEGRAL TAPERED DIVERSIO CRICKET AT UPSLOPE SIDE OF CURB, TYPICAL. COORDINATE V OTHER PRIME CONTRACTORS. SEE STRUCTURAL DRAWINGS DETAILS 21 AND 23/ZA750.
- EXISTING MECHANICAL EQUIPMENT LOOSE OVER ROOF TO BE REMOVED AND REINSTALLED ON SUPPORT RAILS BY OTHERS. SEAL ALL PENETRATIONS THROUGH ROOF. COORDINATE WITH OTHER PRIME CONTRACTORS.
- REMOVE EXISTING ROOF HATCH, PROVIDE ROOF HATCH AND PROTECTION RAIL SYSTEM. APPROX. 30" X 36", VERIFY EXISTIN DIMENSIONS IN FIELD. PATCH TO MATCH EXISTING MATERIALS THICKNESSES AFTER INSTALLATION OF ROOF HATCH. SEE DE 22/ZA750.
- (9R) EXISTING PONDED AREA NOT SHOWN FOR REMOVAL ON ROOI SCAN, SCARIFY EXISTING COATING AND PROVIDE ADDITIONAL SPRAY POLYURETHANE FOAM AS REQUIRED TO CREATE POSI SLOPE TO ROOF DRAIN - VERIFY EXACT CONDITIONS IN FIELD.
- 10R PROVIDE ALUMINUM WALL LADDER, APPROX. HEIGHT AS INDICATED ON PLAN. VERIFY EXACT LOCATION IN FIELD. SEE DETAIL 14/ZA750. Keyed Roof Notes

## (1) REPLACE ROOF DRAIN AT EXISTING LOCATION (VERIFY SIZE IN

- FIELD). SEE DETAIL 8/ZA750. (2) VENT PIPE PENETRATION (VERIFY SIZE IN FIELD). SEE DETAIL
- 6/ZA750. (3) EXISTING WALL OR FASCIA SURFACE MOUNTED ELECTRICAL B
- AND CONDUITS TO BE REMOVED AND REINSTALLED BY OTHERS COORDINATE WITH OTHER PRIME CONTRACTORS 4 ADHERED WALKWAY PAD (TYP). ALIGN WALKWAY PAD WITH LADDERS, DOORS, PERIMETERS OF HATCHES AND MECHANICAL
- EQUIPMENT (TYP). SEE DETAIL 5/ZA750. (5) EXISTING CURB-MOUNTED EQUIPMENT TO BE REMOVED AND REINSTALLED (OR NEW EQUIPMENT) ON PRE-FABRICATED CURB AT EXISTING LOCATION (VIF) BY OTHERS. COORDINATE WITH OTHER PRIME CONTRACTORS. SEE DETAIL 7/ZA750.
- (6) TAPERED INSULATION CRICKET (TYP). SLOPE 1/2"/FT, TYP ALL SIDES. VERIFY LENGTH IN FIELD. WIDTH AS INDICATED ON PLAN AND TYPICAL AT ALL CURB PENETRATIONS.
- (7) EXISTING CURB AND CURB-MOUNTED EQUIPMENT TO BE REMOVED BY OTHERS. COORDINATE WITH OTHER PRIME CONTRACTORS. PROVIDE ROOF DECK OPENING INFILL. VERIFY DIMENSIONS IN FIELD. SEE STRUCTURAL DRAWINGS

|                 | (Typ at all areas of roof replacement)  |   | General Note  |
|-----------------|---|---|---|
| Α.              | AT AREAS INDICATED FOR ROOF REPLACEMENT, WORK INCLUDES,<br>BUT IS NOT LIMITED TO: REMOVAL OF EXISTING ROOFING<br>MATERIALS, INCLUDING GRANULES, COATINGS, MEMBRANES,<br>INSULATION, BLOCKING, CANTS, FLASHINGS, COUNTER<br>FLASHINGS, FASCIAS, UNDER AND OVERLAYMENT BOARDS,<br>VAPOR BARRIERS, FASTENERS, ADHESIVES, SEALANTS AND<br>RELATED ITEMS DOWN TO ROOF DECK (UNO). THOROUGHLY<br>CLEAN ROOF DECK AND AD LACENT SUBFACES OF ALL DEBRIS | A | <ul> <li>A. DO <u>NOT</u> SCALE E</li> <li>B. TAKE FIELD MEA<br/>VERIFY ALL EXIS<br/>FIELD.</li> <li>C. REFER INCONSIS</li> </ul> |
|                 | INCLUDING REMOVAL OF DEBRIS FROM DECK FLUTES, PREPARE<br>(AND PRIME PLANK DECK AREAS) AS REQUIRED TO ACCEPT<br>ROOFING MATERIALS INDICATED. SEE ROOF PLANS FOR SPECIFIC<br>NOTES AND DETAILS.   | _ | D. ITEMS ARE SHOW<br>SPACE REQUIRE<br>PROPERLY  |
| B.              | DRAWINGS ARE REPRESENTATIVE, AND MAY NOT EXACTLY<br>INDICATE ALL FIELD CONDITIONS. CONTRACTOR IS REQUIRED TO<br>VERIFY ALL EXISTING CONDITIONS IN FIELD.  |   | E. NOTES SHOWN (<br>DRAWINGS.   |
| C.              | VERIFY IN FIELD LOCATIONS OF ALL EXISTING ROOF DRAINS AND<br>PENETRATIONS PRIOR TO FIRST SUBMITTAL OF SHOP DRAWINGS.  | В | F. DO <u>NOT</u> DISTURE<br>HAZARDOUS MA<br>ARCHITECT, COM  |
| D.              | INSPECT ROOF DECK PRIOR TO ROOFING INSTALLATION. VERIFY<br>THAT EXISTING MATERIALS ARE SOLID AND SECURE. NOTIFY<br>ARCHITECT IMMEDIATELY IF DETERIORATED OR LOOSE<br>MATERIALS ARE DISCOVERED.  | _ | Symbol/Hatc   |
| E.              | PROVIDE COMPLETE ROOFING INSTALLATION. PROTECT ALL<br>ADJACENT SURFACES AS REQUIRED. RECONSTRUCT OR REPLACE<br>ALL EXISTING ITEMS NOT SCHEDULED FOR WORK THAT ARE<br>DAMAGED DURING ROOFING WORK.   | 0 |   |
| =.<br>G.        | MAINTAIN WATERTIGHT CONDITIONS AT ALL TIMES.<br>PROVIDE ROOFING SYSTEMS AND ALL RELATED COMPONENTS  | 0 | INI<br>TY   |
| H.              | INDICATED BY THE CONTRACT DOCUMENTS AND AS REQUIRED<br>TO ACHIEVE ROOF SYSTEM MANUFACTURER'S WARRANTY.<br>ONCE EXPOSED TO VIEW, FIELD VERIFY CONDITION OF EXISTING  | _ | RC<br>Wi<br>AD  |
|                 | DECKING WITH ARCHITECT AND OWNER'S REPRESENTATIVE. IF<br>DEEMED TO BE IN SERVICEABLE CONDITION, BLOCKING MAY BE<br>PERMITTED TO REMAIN CONTINGIENT UPON RECIEPT OF AGREED<br>CREDIT.  |   | RC  |
|                 | REMOVE AND LEGALLY DISPOSE OF ALL MATERIALS INDICATED FOR DEMOLITION.   | D |   |
| J.              | REMOVE EXISTING EQUIPMENT, SUPPORTS, CURBS, PIPING,<br>WIRING, CONDUITS AND MISCELLANEOUS ITEMS ON OR ADJACENT<br>TO THE ROOF THAT IS IMPACTED BY SCHEDULED WORK (TYP,<br>UNO). REFER TO SPECIFIC NOTES ON ROOF PLANS AND<br>REFERENCED DETAILS FOR WORK REQUIRED.  | _ | PIF     = = = = = = = = = = EX  |
| Κ.              | EXTEND ALL EXISTING VENT PIPING AS REQUIRED TO MAINTAIN<br>MINIMUM 18" HEIGHT ABOVE SURFACE OF FINISHED ROOF (VIF).   |   |   |
| L.              | WOOD BLOCKING SHALL BE PRESERVATIVE PRESSURE-TREATED<br>(PTP). FASTENERS FOR USE WITH PTP WOOD SHALL BE STAINLESS<br>STEEL.   | ш | RC  |
| M.              | AT ROOF DRAIN LOCATIONS, REFER TO SPECIFIC NOTES ON ROOF<br>PLANS AND REFERENCED DETAILS FOR WORK REQUIRED. BEFORE<br>BEGINNING CONSTRUCTION, VERIFY ALL ROOF DRAINS AND<br>PIPING IS CLEAR AND IN WORKING ORDER. REPORT ANY<br>OBSTRUCTIONS TO ARCHITECT AND OWNER'S REPRESENTATIVE<br>PRIOR TO BEGINNING WORK.  | _ | AD<br>RC  |
| N.              | AT MECHANICAL EQUIPMENT LOCATIONS, REFER TO SPECIFIC<br>NOTES ON ROOF PLANS AND REFERENCED DETAILS FOR WORK<br>REQUIRED. BEFORE BEGINNING CONSTRUCTION, VERIFY ALL<br>MECHANICAL EQUIPMENT IS OPERATIONAL AND IN WORKING<br>ORDER. REPORT ANY DEFFICIENCIES TO ARCHITECT AND<br>OWNER'S REPRESENTATIVE PROPE TO BEGINNING WORK  | F | +X.X" TO<br>CC<br>RS-X RC   |
| 0.              | AT VERTICAL ROOF TRANSITION AND BASE FLASHING LOCATIONS,<br>REFER TO SPECIFIC NOTES ON ROOF PLANS AND REFERENCED<br>DETAILS FOR WORK REQUIRED.  |   | #X TE   |
| Ρ.              | DO NOT DISTURB OR OVERBURDEN EXISTING ROOF AREAS THAT<br>ARE NOT SCHEDULED FOR WORK OR RECENTLY COMPLETED<br>ROOF AREAS. THIS INCLUDES HIGH FOOT TRAFFIC, POINTS OF<br>ACCESS AND WORK PREPARATION AND MATERIAL STAGING<br>AREAS.   | _ |   |
| Q.              | ALL WORK SHALL COMPLY WITH EXISTING ADJACENT ROOF<br>SYSTEM MANUFACTURER'S WARRANTY REQUIREMENTS WHERE  | G |   |
| R.              | MAINTAIN CONSTANT ROOF EDGE DATUM AND FASCIA HEIGHTS.<br>BY ADJUSTING LAYERS AND THICKNESS OF CONTINUOUS WOOD<br>BLOCKING (VIF).  |   |   |
| S.              | ALL MATERIALS SHALL COMPLY WITH CHAPTER 15 OF THE 2020 BCNYS.   |   |   |
| Т.<br>U.        | SEE STRUCTURAL DRAWINGS FOR STRUCTURAL LOAD NOTES.<br>ADDITIONAL CONSTRUCTION ACTIVITIES MAY BE TAKING PLACE  | н |   |
| <b>•</b>        | WITH THE DISTRICT AND OTHER PRIME CONTRACTORS.  |   |   |
| <u>Ge</u><br>A. | AT AREAS INDICATED FOR ROOF RESTORATION, WORK INCLUDES,   | _ |   |
|                 | RESTORATION AT ALL ROOF AREAS AND ADJACENT BASE<br>FLASHINGS AND VERTICAL TRANSITIONS AS INDICATED ON ROOF<br>TYPE RS-3 DETAIL AND SPECIFICATION SECTION 07 57 50 - COATED<br>FOAMED ROOFING RESTORATION INCLUDING ROOF MOISTURE<br>SCANS ATTACHED TO SPECIFICATION ROOFING RESTORATION   |   | Key<br>N.T.S.   |
|                 | INCLUDES REMOVAL AND REPLACEMENT OF EXISTING WET,<br>LOOSE, BLISTERED, DELAMINATED, CRACKED, CONTAMINATED OR<br>ROOFING MATERIALS NOT SUITABLE FOR RE-COATING.<br>REPLACEMENT FOAM IS TO BE INSTALLED AT REQUIRED<br>THICKNESS/ELEVATION TO ELIMINATE PONDING AND PROVIDE   |   | S.E.D. Contro   |
|                 | POSITIVE DRAINAGE. PROVIDE REINFORCING AT ALL EXPANSION<br>JOINTS, CRACKS AND TERMINATION LOCATIONS AND ROOF<br>WALKWAY SYSTEM AT LOCATIONS SHOWN ON DRAWINGS. SEE<br>ROOF PLANS FOR SPECIFIC NOTES AND DETAILS.  | _ |   |
| В.              | DRAWINGS ARE REPRESENTATIVE, AND MAY NOT EXACTLY<br>INDICATE ALL FIELD CONDITIONS. CONTRACTOR IS REQUIRED TO<br>VERIFY ALL EXISTING CONDITIONS IN FIELD. A SITE VISIT/ROOF<br>INSPECTION BY THE CONTRACTOR/INSTALLER PRIOR TO<br>SUBMITTING BIDS IS STRONGLY RECOMMENDED.   | ſ | Rev. No.: Date: D   |
| C.              | VERIFY IN FIELD LOCATIONS OF ALL EXISTING ROOF DRAINS AND PENETRATIONS PRIOR TO FIRST SUBMITTAL OF SHOP DRAWINGS.   |   | TX<br>Established 1938  |
| D.              | AT AREAS OF EXPOSURE, INSPECT ROOF DECK PRIOR TO<br>ROOFING INSTALLATION. VERIFY THAT EXISTING MATERIALS ARE<br>SOLID AND SECURE. NOTIFY ARCHITECT IMMEDIATELY IF<br>DETERIORATED OR LOOSE MATERIALS ARE DISCOVERED.  | _ |   |
| E.              | PROVIDE COMPLETE ROOFING INSTALLATION. PROTECT ALL<br>ADJACENT SURFACES AS REQUIRED. RECONSTRUCT OR REPLACE<br>ALL EXISTING ITEMS NOT SCHEDULED FOR WORK THAT ARE<br>DAMAGED DURING ROOFING WORK.   | х | complex world CLEAR   |
| ⊢.<br>G.        | MAIN FAIN WATERTIGHT CONDITIONS AT ALL TIMES.<br>PROVIDE ROOFING SYSTEMS AND ALL RELATED COMPONENTS<br>INDICATED BY THE CONTRACT DOCUMENTS AND AS REQUIRED  |   | Tetra Tech Enginee<br>& Landscape Archit  |
| Н.              | TO ACHIEVE ROOF SYSTEM MANUFACTURER'S WARRANTY.<br>AT EXISTING ROOF DRAIN LOCATIONS; REMOVE, CLEAN AND<br>REINSTALL EXISTING DOME STRAINERS, CLEAN EXISTING DRAIN   |   |   |
|                 | BOWL AND PIPING AS REQUIRED AND PERFORM HOSE TEST TO<br>ENSURE FUNCTIONAL OPERATION BEFORE BEGINNING<br>CONSTRUCTION. VERIFY DRAIINS AND PIPING IS CLEAR AND IN<br>WORKING ORDER. REPORT ANY OBSTRUCTIONS TO ARCHITECT<br>AND OWNER PRIOR TO BEGINNING WORK. AT DRAIN LOCATIONS<br>WITH MISSING OR PLASTIC STRAINERS, PROVIDE ADJUSTMABLE<br>DRAIN GUARD.   | L | Tt  |
| I.              | ALL MATERIALS SHALL COMPLY WITH CHAPTER 15 OF THE 2020<br>BCNYS.  | _ | Wallkill Cen<br>Wallkill Nev  |
| J.              | SEE STRUCTURAL DRAWINGS FOR STRUCTURAL LOAD NOTES.  |   |   |
| K.              | ADDITIONAL CONSTRUCTION ACTIVITIES MAY BE TAKING PLACE<br>DURING THIS PROJECT'S DURATION REQUIRING COORDINATION<br>WITH THE DISTRICT AND OTHER PRIME CONTRACTORS  | × | Reconstruct   |

16

EXISTING ALARM/DETECTION/SENSORS/DATA WIRES LOOSE OVER Μ. ROOF ARE TO BE REMOVED, RELOCATED, AND/OR REPOSITIONED. COORDINATE WITH OTHER PRIME CONTRACTORS

| $F_{X,X''}$  | ROWAL ROR E C PI E E PI E C RO AL TOCOR TEN |
|--|---|
| S.E.D. Cont  |   |
| Rev. No.: Date:                                      | AF  |
| Tetra Tech Engir<br>& Landscape Are                  | ne<br>chi                                   |
| Wallkill Ce<br>Wallkill, N<br>Reconstru<br>Leptondal |   |
| Drawn By:<br>TTAE                                    |   |

![](_page_47_Figure_23.jpeg)

![](_page_48_Figure_0.jpeg)

|   |  | 1                                       |   |
|---|--|---|---|
| (1N<br>(1H  | <ul> <li>ARTWORK/PLAQUES TO REMAIN - DO <u>NOT</u> DAMAGE. REMOVAL<br/>BY OWNER.</li> <li>SAW CUT OPENING IN WALL TO EXTENT REQUIRED TO PERFORM<br/>SCHEDULED WORK. PROVIDE LINTEL PER LINTEL SCHEDULE.</li> </ul>   | ⊂ B.                                    | KEYED DEMOLI<br>FOLLOWS:  |
| 6A  | <ul> <li>PATCH EXPOSED SURFACES TO MATCH ADJACENT FINISHES /<br/>SURFACES.</li> <li>REMOVE EXISTING WOOD PANELING AND FURRING<br/>STRIPS/SYSTEM TO ACCOMMODATE SCOPE OF WORK. PATCH<br/>SUBSTRATE TO MATCH ADJACENT SURFACES WHERE DAMAGED</li> </ul>  | _                                       | 2. DEMOLITI<br>ADJACENT TO /<br>REMOVAL OR T  |
| (8A   | BY REMOVALS IN ORDER TO ACCEPT NEW SCHEDULED WORK.<br>REMOVE STOREFRONT SYSTEM COMPLETELY. PREPARE<br>OPENING TO EXTENT REQUIRED TO PERFORM SCHEDULED<br>WORK. PATCH EXPOSED SURFACES TO MATCH ADJACENT<br>FINISHES / SURFACES. PROTECT AND DELIVER TO OWNER'S<br>STORAGE LOCATION FOR THEIR RE-USE.   | מ                                       | SPECIFIC ITEM(<br><u>SPECIFIC ITEM</u><br>3. DEMOLITI<br><u>ALL</u> THOSE ITEI<br>SPACE IDENTIF |
| (8F   | REMOVE DOOR LOCKSET AND ASSOCIATED HARDWARE IN<br>PREPARATION FOR NEW LEVERSET. REFER TO DOOR<br>HARDWARE SCHEDULE FOR NEW HARDWARE AND TO<br>COORDINATE REQUIRED REMOVALS TO FACILITATE NEW<br>HARDWARE INSTALLATION  | C.<br>— D.                              | WHEN AN ITEM<br>ASSOCIATED C<br>ALL ARTWORK<br>CONSTRUCTIOI<br>PRIOR TO BEGI                    |
| ۹D.:  | REMOVE FLOOR FINISH, MASTIC AND WALL BASE TO EXTENT<br>REQUIRED TO PERFORM SCHEDULED WORK. AT ALL AREAS<br>OF FLOOR REMOVAL, LEVEL SLAB WITH ADJACENT SLABS AT<br>LOCATIONS SCHEDULED TO RECEIVE FLOOR FINISH. INCLUDE<br>CONCRETE FLOOR PATCHING AND LEVELING MATERIALS TO<br>MAKE SURFACE LEVEL. PREPARE FOR FINISH. PATCH AREAS<br>OF WALLS TO REMAIN THAT WERE DAMAGED BY REMOVAL OF<br>WALL BASE.<br>SUFFIX KEY (FLOOR FINISH IDENTIFICATIONS): | E.                                      | EXISTING WIND   |
| 9G  | I. VAT/VCT.<br>REMOVE CEILING SYSTEM AND/OR SOFFIT SYSTEM IN ITS<br>ENTIRETY.  |   |   |
| (9H   | REMOVE SPLINE CEILING SYSTEM SYSTEM IN ITS ENTIRETY<br>(ADJACENT SOFFITS TO REMAIN WHERE EXISTING). REFER TO<br>REFLECTED CEILING PLANS FOR ADDITIONAL INFORMATION.<br>REFER TO OTHER DISCIPLINE'S DRAWINGS FOR ASSOCIATED<br>WORK WITH CEILING MOOUNTED ITEMS.  | 2                                       |   |
| (9J   | REMOVE AND REINSTALL EXISTING CEILING SYSTEM AS<br>REQUIRED TO ACCOMODATE STRUCTURAL REINFORCING OF<br>ROOF. COORDINATE ALL LOCATIONS OF REQUIRED CEILING<br>REMOVAL WITH STRUCTURAL DRAWINGS. EXISTING CEILING<br>MOUNTED ITEMS TO BE PROTECTED FOR REINSTALLTION INTO  | -                                       |   |
| 120   | CEILING. COORDINATE WITH OTHER DISCIPLINE'S DRAWINGS.<br>REMOVE EXISTING TV DISPLAY. TURN OVER TO OWNER FOR<br>THEIR STORAGE / REUSE.  | ц                                       |   |
|   |  | _                                       |   |
|   | L  | L                                       |   |
|   |  | _                                       |   |
|   |  | פ                                       |   |
| INDERGARTEN<br>CLASSROOM<br>9<br>GRADE 2<br>CLASSROOM<br>33 |  | <br>E                                   | C   |
| 8F  |  | _                                       |   |
|   |  | -<br>S.                                 | E.D. Contr  |
|   |  | Rev                                     | No.: Date:  |
|   | 2  | com                                     | plex world CLEA   |
|   |  | Te                                      | tra Tech Engine؛<br>Landscape Arch  |
|   | -  | -                                       | Tł  |
|   |  | - \                                     | Nallkill Cer<br>Nallkill, Ne  |
|   | 2  | ≥ <b>F</b>                              | Reconstruc<br>_eptondale  |
|   |  | -<br>-<br>F                             | -<br>First Floor  |
|   | -  | ≥ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ | )rawn By: [<br>TAE 1<br>Project No.:  |
|   |  |   | 17597-220   |

**Demolition Key Notes** 

![](_page_48_Figure_2.jpeg)

![](_page_49_Figure_0.jpeg)

![](_page_50_Figure_0.jpeg)

![](_page_50_Figure_1.jpeg)

11 |

12

13

14

# 1 Second Floor Demolition Plan - Area C

7

1

8

9

1

10

1

| De                     | molition Key Notes   |      | eneral Der  |
|------------------------|--|------|---|
| ( <b>1</b> N)          | ARTWORK/PLAQUES TO REMAIN - DO NOT DAMAGE. REMOVAL $\prec$ BY OWNER.   | В.   | KEYED DEMOLIT   |
| (1H)                   | SAW CUT OPENING IN WALL TO EXTENT REQUIRED TO PERFORM<br>SCHEDULED WORK. PROVIDE LINTEL PER LINTEL SCHEDULE.<br>PATCH EXPOSED SURFACES TO MATCH ADJACENT FINISHES /<br>SURFACES.   |      | 1. DEMOLITIO<br>SPACE REFER T<br>SAME TYPE WIT  |
| (6A)                   | REMOVE EXISTING WOOD PANELING AND FURRING<br>STRIPS/SYSTEM TO ACCOMMODATE SCOPE OF WORK. PATCH<br>SUBSTRATE TO MATCH ADJACENT SURFACES WHERE DAMAGED<br>BY REMOVALS IN ORDER TO ACCEPT NEW SCHEDULED WORK.   |      | 2. DEMOLITIC<br>ADJACENT TO A<br>REMOVAL OR TH<br>SPECIFIC ITEM(\$<br><u>SPECIFIC ITEM (</u>        |
| (8A)                   | REMOVE STOREFRONT SYSTEM COMPLETELY. PREPARE<br>OPENING TO EXTENT REQUIRED TO PERFORM SCHEDULED<br>WORK. PATCH EXPOSED SURFACES TO MATCH ADJACENT<br>FINISHES / SURFACES. PROTECT AND DELIVER TO OWNER'S<br>STORAGE LOCATION FOR THEIR RE-USE.   | C.   | 3. DEMOLITIO<br>ALL THOSE ITEN<br>SPACE IDENTIFI<br>WHEN AN ITEM                                    |
| (8F)                   | REMOVE DOOR LOCKSET AND ASSOCIATED HARDWARE IN -<br>PREPARATION FOR NEW LEVERSET. REFER TO DOOR<br>HARDWARE SCHEDULE FOR NEW HARDWARE AND TO<br>COORDINATE REQUIRED REMOVALS TO FACILITATE NEW<br>HARDWARE INSTALLATION.   | • D. | ASSOCIATED CO<br>ALL ARTWORK N<br>CONSTRUCTION<br>PRIOR TO BEGIN<br>AGENT(S) IF AN<br>OF DEMOLITION |
| K. GP                  | REMOVE FLOOR FINISH, MASTIC AND WALL BASE TO EXTENT<br>REQUIRED TO PERFORM SCHEDULED WORK. AT ALL AREAS<br>OF FLOOR REMOVAL, LEVEL SLAB WITH ADJACENT SLABS AT<br>LOCATIONS SCHEDULED TO RECEIVE FLOOR FINISH. INCLUDE<br>CONCRETE FLOOR PATCHING AND LEVELING MATERIALS TO<br>MAKE SURFACE LEVEL. PREPARE FOR FINISH. PATCH AREAS<br>OF WALLS TO REMAIN THAT WERE DAMAGED BY REMOVAL OF<br>WALL BASE. | E.   | EXISTING WIND<br>STORED BY OW   |
|                        | SUFFIX KEY (FLOOR FINISH IDENTIFICATIONS):<br>I. VAT/VCT.  |      |   |
| (9G)                   | REMOVE CEILING SYSTEM AND/OR SOFFIT SYSTEM IN ITS<br>ENTIRETY.   |      |   |
| (9H)                   | REMOVE SPLINE CEILING SYSTEM SYSTEM IN ITS ENTIRETY<br>(ADJACENT SOFFITS TO REMAIN WHERE EXISTING). REFER TO<br>REFLECTED CEILING PLANS FOR ADDITIONAL INFORMATION.<br>REFER TO OTHER DISCIPLINE'S DRAWINGS FOR ASSOCIATED<br>WORK WITH CEILING MOOUNTED ITEMS.  |      |   |
| (Je                    | REMOVE AND REINSTALL EXISTING CEILING SYSTEM AS<br>REQUIRED TO ACCOMODATE STRUCTURAL REINFORCING OF<br>ROOF. COORDINATE ALL LOCATIONS OF REQUIRED CEILING<br>REMOVAL WITH STRUCTURAL DRAWINGS. EXISTING CEILING<br>MOUNTED ITEMS TO BE PROTECTED FOR REINSTALLTION INTO<br>CEILING. COORDINATE WITH OTHER DISCIPLINE'S DRAWINGS  |      |   |
| 120                    | REMOVE EXISTING TV DISPLAY. TURN OVER TO OWNER FOR<br>THEIR STORAGE / REUSE.   |      |   |
|                        | _  | -    |   |
| 8F 8F                  |  |      |   |
| GRADE<br>CLASSRO<br>29 | = 6<br>⊃OM<br>   |      |   |
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|                        |  | -    | C   |
|                        | r  |      |   |
|                        |  | 1    | $Y///\lambda$   |

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17

Rev. No.: Date: Description: TRALSC complex world Tetra Tech Engineers, Architects & Landscape Architects, P.C. 'TŁ, Wallkill, New York Reconstruction to: Area B and Area C Drawn By: TTAE

Project No.: 17597-22001

![](_page_50_Figure_8.jpeg)

![](_page_51_Picture_0.jpeg)

| 12 | 13                  | 14                     | 15         | 16 | 17          |  |
|----|---------------------|------------------------|------------|----|-------------|--|
|    |                     |                        |            |    | 4           | A. WHERE EXISTING C<br>PATCH AS REQUIRE<br>ORIGINAL CONDITIC<br>B. PARTITION TYPE TA   |
|    |                     |                        |            |    | -           | INDICATED BY THAT<br>THAT WALL, TYPICA<br>Room Finish K<br>C2 CARPET - TYPE  |
|    |                     |                        |            |    | ۵           | HPC       HIGH PERFORI         N       NO WORK REG         P       PAINT SURFAC         PT       PORCELAIN TIL         RB       RUBBER BASE         VCT       VINYL COMPOS         *       SEE REFLECTE         **       PROVIDE NEW |
|    |                     |                        |            |    | -<br>0      | NOTE: ALL FINISHES LISTE<br>REFER TO EA900 FOR GEN   |
|    |                     |                        |            |    | _           | CASEWORK NOTES.<br>FINISHES SHOWN IN ROOM<br>ALL WALLS AND ENTIRE FI<br>REFER TO EACH ROOM FO  |
|    |                     |                        |            |    |             |  |
|    |                     |                        |            |    | _           | -  |
|    |                     |                        |            |    | ш<br>_      | _  |
|    |                     |                        |            |    | ш           |  |
|    |                     |                        |            |    | _           | -  |
|    | GARTEN<br>ROOM<br>9 |                        |            |    | ى<br>-      | - C  |
| 9  |                     | GRADE<br>CLASSRO<br>33 | E 2<br>DOM |    | Ξ           |  |
|    |                     | 33                     |            |    | _           | S.E.D. Control   |
| М  |                     |                        |            |    | -<br>-<br>- | Rev. No.: Date: Desc   |
|    |                     |                        |            |    | -           | Established 1938   |
|    |                     |                        |            |    | ¥           | CLEAR S  |
|    |                     |                        |            |    | -           |  |
|    |                     |                        |            |    | _           | - Wallkill Centr<br>Wallkill, New  |
|    |                     |                        |            |    | ≥           | Reconstruction Leptondale E  |
|    |                     |                        |            |    | z           | Drawn By:<br>TTAE  |
|    | 1                   |                        | 1          | I  | 1           | Project No.:<br>17597-22001  |

| Plan Notes  | FION IS DAMAGEE   | ) OR DISTU           | RBED,             |  |  |
|---|---|----------------------|-------------------|--|--|
| S REQUIRED TO RESTORE SURFACES TO THEIR<br>L CONDITION.   |   |                      |                   |  |  |
| nish Key  | NOTED OTHERW  | ISE.                 |                   |  |  |
| PET - TYPE 2 ENTRY N<br>H PERFORMANCE CO/<br>WORK REQUIRED<br>NT SURFACE(S) INCLU<br>RCELAIN TILE<br>BBER BASE<br>YL COMPOSITION TILE | WALK OFF<br>ATING<br>DING SOFFITS                         |                      |                   |  |  |
| REFLECTED CEILING<br>VIDE NEW TB AT WAL<br>CKSET APPLICATION F<br>CH AND PAINT AT UV<br>CATED CHANGE IN FL                            | PLAN<br>LS WITH PT<br>OR PT<br>AS REQUIRED<br>.OOR FINISH |                      |                   |  |  |
| SHES LISTED MAY NOT<br>00 FOR GENERAL FINIS<br>0TES.  | T BE REQUIRED F<br>SH NOTES AND G                         | OR THIS PI<br>ENERAL | ROJECT.           |  |  |
| VN IN ROOM FINISH BO<br>DENTIRE FLOOR AND<br>H ROOM FOR MORE IN   | DX ARE FOR<br>CEILING<br>NFORMATION.                      | RM<br>CLG*<br>FLR    | #<br>WALL<br>BASE |  |  |
|   |   |                      |                   |  |  |
|   |   |                      |                   |  |  |
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|   |   |                      |                   |  |  |
| С   | A   |                      | $\overline{A}$    |  |  |
|   |   |                      | 7                 |  |  |
| B   |   |                      |                   |  |  |
| Key Plan  |   | N                    |                   |  |  |
| ontrol No. 62   | 2-18-01-06  | <u>6-0-00</u>        | 1-019             |  |  |
|   |   |                      |                   |  |  |
| te: Description:  |   |                      |                   |  |  |
|   | r<br>ALL]<br>Al SCHOOI                                    | KII<br>L DISTI       | L<br>RICT         |  |  |
| CLEAR SOLUTION  | vs  | Ś                    |                   |  |  |
| Engineers, Architec<br>e Architects, P.C.   | ots   | ×                    |                   |  |  |
|   | TRA T   |                      | <b>H</b><br>EERS  |  |  |
| Central Sch<br>, New York   | ool Distric   | ct                   |                   |  |  |
| struction to:<br>dale Elemen  | tary Scho   | ol                   |                   |  |  |
| oor Plan - Ar   | ea A  |                      |                   |  |  |
| Date:<br>11/4/2022  | Drawing Num   | ber:                 |                   |  |  |
| 22001   |   | 13                   | 1                 |  |  |
|   |   |                      |                   |  |  |

![](_page_52_Figure_0.jpeg)

![](_page_53_Figure_0.jpeg)

![](_page_53_Figure_1.jpeg)

![](_page_53_Picture_2.jpeg)

![](_page_53_Figure_3.jpeg)

![](_page_54_Figure_0.jpeg)

![](_page_55_Figure_0.jpeg)

![](_page_55_Figure_1.jpeg)

16 I 17

REINSTALL EXISTING CEILING SYSTEM AS REQUIRED TO ACCOMODATE STRUCTURAL REINFORCING OF ROOF. COORDINATE ALL LOCATIONS OF REQUIRED CEILING REINSTALLATION WITH STRUCTURAL DRAWINGS. EXISTING CEILING MOUNTED ITEMS TO BE REINSTALLED INTO CEILING. COORDINATE WITH

U

![](_page_55_Figure_6.jpeg)

| General Ceiling Notes   |   |
|---|---|
| A. LIGHTING AND OTHER CEILING-MC                              | DUNTED FIXTURES ARE                           |
| SHOWN FOR DRAWING CLARITY. (<br>WORK PRIOR TO INSTALLATION O  | COORDINATE ALL CEILING<br>F CEILING GRID.     |
| B. CENTER CEILING-MOUNTED ITEMS                               | S (LIGHTS, GRILLES,<br>TC) WITHIN THE CEILING |
| PANELS AND GRIDS UNLESS THE<br>CENTER TEMS WITHIN THE PATTE   | PANELS ARE SCORED.<br>RN OF SCORED PANELS.    |
| C. PATCH CEILING SYSTEMS TO REM                               | AIN THAT HAVE BEEN                            |
| ONSTRUCTION PRIOR TO PAINTIN                                  | G.  |
| D. X 9'-0" DESIGNATES BOTTOM<br>FLOOR AT THAT POINT UNO. DESI | OF CEILING ABOVE FINISHED<br>GNATION "ME"     |
| INDICATES MATCH EXISTING CEILI                                | NG HEIGHT.                                    |
| Ceiling Types   |   |
|   |   |
| A2 X'-X" ACOUSTIC PANEL CEILING                               |   |
|   |   |
| (GRID SUSPENSION SYSTE  | EM, TYP UNO)                                  |
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| S.E.D. Control No. 62-1                                       | 8-01-06-0-001-019                             |
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| Rev. No.: Date: Description:                                  |   |
|   |   |
|   |   |
| Established 1938 SCENTRAL                                     | SCHOOL DISTRICT                               |
|   |   |
| omolov world o  |   |
| CLEAR SOI LITIONS   |   |
|   | $\sim$  |
| Tetra Tech Engineers Architects                               |   |
| & Landscape Architects, P.C.                                  | $\mathbf{v}$                                  |
|   |   |
|   | RATECH  |
|   | CTS & ENGINEERS                               |
|   |   |
| Wallkill Central Schoo  | District                                      |
| Wallkill, New York  |   |
|   |   |
| Reconstruction to:  |   |
| Leptondale Elementa   | ry School                                     |
|   |   |
|   |   |
| Second Floor Reflecte   | ed Ceiling Plan                               |
|   | Drowing Number                                |
| Drawn by: Date:<br>ТТАЕ 11/4/2022                             | Drawing Number:                               |
| Project No.:  |   |
| 17597-22001   |   |
|   |   |

![](_page_56_Figure_0.jpeg)

![](_page_56_Figure_1.jpeg)

![](_page_57_Figure_0.jpeg)

![](_page_57_Figure_1.jpeg)

| leuule                 |         |             |         |          |         |      |         |                |
|------------------------|---------|-------------|---------|----------|---------|------|---------|----------------|
|                        |         | FRAME       | :       |          |         |      |         |                |
| WIDTH                  | HEIGHT  | RATING      | GLAZING | HEAD     | JAMB    | SILL | HDW SET | REMARKS        |
| <b>A</b> "             | 7 0"    |             |         |          |         |      | 1.0     |                |
| - 4                    | 7 - 2   | -           | -       |          |         |      |         | NOTE 2         |
| - 4                    | 7 - 2   | -           | -       |          |         |      |         | NOTE 2         |
| - 4                    | 7 - 2   | -           | -       |          |         |      |         |                |
| - 4                    | 7 - Z   | -           | -       |          |         |      |         | NOTE 2         |
| - 4"                   | 7 - 2   | -           | -       |          |         |      | L1      |                |
| - 4"                   | 7 - 2"  | -           | -       |          |         |      | L2      | NOTE 2         |
| - 4"                   | 7 - 2   | -           | -       |          |         |      | L1      |                |
| - 4                    | 7 - Z   | -           | -       |          |         |      |         |                |
| - 4                    | 7 - Z   | -           | -       |          |         |      |         |                |
| - 4                    | 7 - 2   | -           | -       |          |         |      |         |                |
| - 4                    | 7 - Z   | -           | -       |          |         |      |         |                |
| - 4                    | 7 - 2   | -           | -       |          |         |      |         | NOTE 2         |
| - 4                    | 7 - 2   | -           | -       |          |         |      | L3      |                |
| - 4                    | 7 - 4   | -           | -       |          |         |      |         |                |
| - 4                    | 7 - 4   | -           | -       |          |         |      |         | NOTE 2         |
| - 4                    | 7 - 2   | -           | -       |          |         |      |         | NOTE 2         |
| - 4                    | 7'-2    | -           | -       |          |         |      |         |                |
| - 4                    | 7 - 4   | -<br>20 MIN | -       |          | 14.4    |      | L4      |                |
| - 4                    | 1 - 2   | 20 IVIIIN   |         |          | J 14    |      |         | NOTE 1 NOTE 2  |
| $+ - 7 \frac{1}{2}$    | 11-3    | -           |         | 12/EA000 | 5/EA600 |      |         | NOTE 1, NOTE 3 |
|                        | 11-3    | -           |         | 0/EA000  | 0/EA000 |      |         | NOTE 3         |
| + - 7 1/2<br>P 5 1/2"  | 11 - 3  | -           |         | 9/EA600  | 5/EA000 |      |         | NOTE 1, NOTE 3 |
| 5 - 5 1/2              | 11 - 5  | -           | JUL     | 0/EA000  | 0/EA000 |      | L9      | NOTE 3         |
| <b>/</b> "             | 7' 0"   |             |         |          |         |      | 1.2     | NOTE 2         |
| - 4                    | 7' 2"   | -           | -       |          |         |      |         | NOTE 2         |
| - 4                    | 7' 2"   | -           | -       |          |         |      | 1.2     | NOTE 2         |
| - 4                    | 7' 2"   | -           | -       |          |         |      |         | NOTE 2         |
| - 4                    | 7' 2"   | -           | -       |          |         |      |         |                |
| - 4<br>- 4"            | 7' - 2" | -           | -       |          |         |      | 12      | NOTE 2         |
| - 4<br>- 4"            | 7' - 2" | -           |         |          |         |      | 12      | NOTE 2         |
| - 4<br>- 4"            | 7' - 2" |             |         |          |         |      | 12      | NOTE 2         |
| - 4<br>- 4"            | 7' - 2" | -           |         |          |         |      | 12      | NOTE 2         |
| - <del>-</del><br>- 4" | 7' - 2" |             |         |          |         |      | 12      | NOTE 2         |
| •                      | 1 2     |             |         |          |         |      |         |                |
| - 4"                   | 7' - 2" | -           | -       |          |         |      | 12      | NOTE 2         |
| - 4"                   | 7' - 2" | _           | -       |          |         |      | 12      | NOTE 2         |
| - 4"                   | 7' - 2" | -           | -       |          |         |      | 12      | NOTE 2         |
| - 4"                   | 7' - 2" | -           | -       |          |         |      | 12      | NOTE 2         |
| - 4"                   | 7' - 2" | -           | -       |          |         |      | L2      | NOTE 2         |
| - 4"                   | 7' - 2" | -           | -       |          |         |      | L2      | NOTE 2         |
| - 4"                   | 7' - 2" | -           | -       |          |         |      | L2      | NOTE 2         |
| - 4"                   | 7' - 2" | -           | -       |          |         |      | L2      | NOTE 2         |
| - 4"                   | 7' - 2" | -           | -       |          |         |      | L1      |                |
| - 4"                   | 7' - 2" | -           | -       |          |         |      | L1      |                |
| - 4"                   | 7' - 2" | -           | -       |          |         |      | L1      |                |
| - 4"                   | 7' - 2" | -           | -       |          |         |      | L2      | NOTE 2         |
| - 4"                   | 7' - 2" | -           | -       |          |         |      | L2      | NOTE 2         |
| - 4"                   | 7' - 2" | -           | -       |          |         |      | L2      | NOTE 2         |
| - 4"                   | 7' - 2" | -           | -       |          |         |      | L2      | NOTE 2         |
| - 4"                   | 7' - 2" | -           | -       |          |         |      | L1      |                |
| - 4"                   | 7' - 2" | -           | -       |          |         |      | L1      |                |
| - 4"                   | 7' - 2" | -           | -       |          |         |      | L1      |                |
| - 4"                   | 7' - 2" | -           | -       |          |         |      | L2      | NOTE 2         |
| - 4"                   | 7' - 2" | -           | -       |          |         |      | L5      |                |
| - 4"                   | 7' - 2" | -           | -       |          |         |      | L2      | NOTE 2         |

![](_page_57_Figure_5.jpeg)

![](_page_57_Picture_6.jpeg)

![](_page_57_Figure_7.jpeg)

![](_page_57_Figure_9.jpeg)

![](_page_57_Figure_10.jpeg)

![](_page_57_Figure_11.jpeg)

![](_page_58_Figure_0.jpeg)

| <u>G</u>  | eneral Wood Casework Notes   | <u>G</u>           | eneral Finish Notes  |    |   |
|-----------|--|--------------------|--|----|---|
|           | FOR ALL CONTRACTOR RESPONSIBILITIES REFER TO SPECIFICATION SECTION 01 10 00/01 12 00.  | ALL<br>CON<br>TO 3 | FINISH PRODUCTS ARE TO BE INSTALLED IN ACCORDANCE WITH<br>NTRACT SPECIFICATION AND MANUFACTURES INSTRUCTIONS. REFER<br>SPECIFICATIONS AND FINISH DETAILS FOR ADDITIONAL INFORMATION  |    |   |
| A.        | THE CASEWORK SHOWN ON THE DRAWINGS IS BASED ON<br>KEWAUNEE SCIENTIFIC WOOD CASEWORK. REFER TO THE<br>PROJECT MANUAL, SECTION 12 32 13 FOR DETAILED<br>SPECIFICATIONS.  | ON<br>A.           | INSTALLATION OF SPECIFIED MATERIALS,<br>ALL PAINTS FOR INTERIOR AND EXTERIOR ARE TO BE APPLIED IN<br>ACCORDANCE WITH SPECIFICATION SECTION 09 91 00 AND 09 96 00.  | ·- |   |
| B.        | ALL STANDARD CASEWORK DIMENSIONS TO BE MODIFIED TO<br>CORRESPOND WITH THE DIMENSIONS NOTED ON THE<br>DRAWINGS. FIELD VERIFY ALL DIMENSIONS PRIOR TO<br>EARDICATION OF CABINETS   | B.                 | ALL EXPOSED STRUCTURES, INCLUDING BUT NOT LIMITED TO<br>PIPING AND FIREPROOFING, CONDUIT, AND ALL ASSOCIATED<br>EQUIPMENT ARE TO BE PAINTED.   | _  |   |
| C.        | MODEL NUMBERS LISTED ON DRAWINGS APPLY TO ELEVATIONS<br>SHOWN. PROVIDE OPPOSITE HAND MODELS WHERE SHOWN.   | C.<br>INC          | APPLY PAINT TO BOTH NEW AND EXISTING ITEMS IN ALL AREAS<br>INDICATED WITH A FINISH BOX AND/OR NOTES - THESE ITEMS ARE<br>LUDING BUT ARE NOT LIMITED TO:  |    |   |
| D.        | PROVIDE FULL DEPTH SHELVES AT BASE, WALL AND TALL CABINETS, UNLESS NOTED OTHERWISE.  |                    | - FEC 'S, LADDERS, BEAMS, DOOR/FRAMES - BOTH SIDES<br>GLAZING FRAMES IN DOOR/WALLS- BOTH SIDES, ALL EXPOSED<br>STAIR PARTS INCLUDING RAILINGS, HAND AND GUARD RAILS,<br>STRINGERS AND UNDERSIDES OF STAIRS ALL ITEMS ARE TO BE   | В  |   |
| E.        | BASE AND TALL CABINETS ARE 22 INCHES DEEP. U.N.O. WALL<br>CABINETS ARE 14 INCHES DEEP, UNO BASE CABINET DEPTH<br>DOES NOT INCLUDE 1" COUNTERTOP OVERHANG, TYP.   | D.                 | ACCENT COLORS.<br>PATTERNS FOR FLOORS AND WALLS ARE AS SHOWN ON  | _  |   |
| F.        | PROVIDE FINISHED ENDS, BACK EXTENSIONS, SCRIBES AND<br>FINISHED FILLER PANELS ON ALL CABINETS. FILLER PANELS ARE<br>NOT TO EXCEED 3" WIDE, UNLESS NOTED OTHERWISE. PROVIDE<br>TOP AND BOTTOM FILLER PANELS AT ALL BASE & WALL UNITS.<br>SUBMIT SHOP DRAWINGS SHOWING DETAILS OF THESE<br>CONDITIONS. |                    | DRAWINGS INCLUDING ALL ACCENT LOCATIONS. SUBMIT SHOP<br>DRAWINGS SHOWING DETAILED LAYOUTS OF EACH AREA,<br>INCLUDING EDGES AND TRANSITIONS, ALL LAYOUTS ARE TO BE<br>CENTERED IN EACH ROOM UNO - TYP ALL DRAWINGS. ABOVE<br>REQUIRMENTS ARE TO INCLUDE BUT NOT LIMITED TO:<br>- CERAMIC TILE, BOTH WALL AND FLOOR.<br>- PORCELAIN PAVERS | U  |   |
| G.        | ALL COUNTERTOPS TO BE SOLID SURFACE WITH A RADIUS EDGE<br>UNLESS NOTED OTHERWISE. BACKSPLASHES TO BE 4" HIGH, TYP.<br>DO NOT PROVIDE BACKSPLASHES AT UV WALL UNLESS NOTED<br>OTHERWISE. PROVIDE CAULK AT ALL JOINTS PROVIDE MARINE<br>EDGE AT LOUVER LOCATIONS, TYP.                                 |                    | - TERRAZZO AND BASE<br>- CARPET<br>- VCT<br>- SHEET VINYL<br>- LINOLEUM  | _  |   |
| H.        | RADIUS COUNTERTOPS AT SOLID SURFACE COUNTERTOPS ENDS<br>MEETING TALL SHELVING UNITS WITH A DEPTH LESS THAN<br>COUNTERTOP DEPTH. RADIUS TO BE 1-1/2" UNLESS NOTED<br>OTHERWISE. REFER TO DETAIL 9/EA900.  | E.                 | FIELD AND ACCENT PAINT AS SHOWN ON DRAWINGS<br>CONTRACTOR IS TO ASSUME ALL FIELD AND ACCENT COLORS<br>ARE DIFFERENT ROOM TO ROOM. AS WELL AS WITHIN EACH<br>ROOM, REQUIREMENTS ARE TO INCLUDE DUT ARE NOT LIMITED  |    |   |
| J.        | PROVIDE COUNTERTOP CUT-OUTS FOR SINK, FAUCETS, AIR<br>AND/OR GAS COCKS, COORDINATE WITH ALL REQUIRED<br>CONTRACTORS.   |                    | TO:<br>- WALL, FIELD COLOR<br>- WALL, ACCENT COLOR   | Ω  |   |
| K.        | PROVIDE CUTS AT ALL CONDITIONS THAT INTERFERE WITH COUNTERTOPS/CABINETS: SCRIBE TO FIT.  |                    | - CEILING CLOUDS, ACCENT COLOR<br>- SOFFITS, ACCENT COLOR<br>- DOOR AND WINDOW FRAMES, ACCENT COLOR  |    |   |
| L.        | PROVIDE AT ALL UV SHELVING LOCATIONS-REMOVABLE BACKS<br>IN CABINETS AT PLUMBING AND FIN TUBE VALVE LOCATIONS.<br>VERIFY POSITIONS OF VALVES PRIOR TO SHOP FABRICATION OF<br>ALL CABINETS.  |                    | - EXPOSED COLOMINS, ACCENT COLOR<br>- GUARDRAILS, ACCENT COLOR<br>- HANDRAILS, ACCENT COLOR<br>- EXPOSED DECKS, ACCENT COLOR<br>- EXPOSED DUCTWORK ACCENT COLOR  | -  |   |
| М.        | PROVIDE SHOP DRAWINGS SHOWING LOCATIONS AND DETIALS<br>FOR ALL GRILLES, LOUVERS, REMOVABLE PANELS, VALVE<br>LOCATIONS ECT. ASSOCIATED WITH CASEWORK COORDINATE   | F.                 | PAINT MECHANICAL ROOM FLOOR CURBS CAUTION YELLOW.  | ш  |   |
| N         | WITH ALL REQUIRED CONTRACTORS.   | G.                 | PROVIDE PAINT AT ALL NEW SOFFITS, REFER TO REFLECTIVE CEILING PLANS FOR ADDITIONAL LOCATIONS.  |    |   |
| IN.       | LIMITED TO, LOCATIONS OF ADJACENT CABINETS OR EQUIPMENT<br>WITH A DEPTH LESS THAN CABINET OR EQUIPMENT.  | H.                 | ALL EXPOSED BRICK, GROUND FACE BLOCK IS TO REMAIN UNPAINTED, UNO.  |    |   |
| P.        | PROVIDE ALL STANDARD FEATURES OF CASEWORK UNITS AS<br>INDICATED BY MODEL NUMBER OR AS SHOWN ON PLANS,<br>DETAILS AND ELEVATIONS, INCLUDED BUT NOT LIMITED TO:  | J.                 | CONFIRM WITH OWNER AND ARCHITECT PRIOR TO PAINTING<br>OVER MURALS ON EXISTING SURFACES.  | _  |   |
| Q.        | PROVIDE BLOCKING AT NEW AND EXISTING GYPSUM BOARD<br>WALLS PER MANUFACTURER RECOMMENDATIONS FOR SUPPORT<br>OF WALL /TALL MOUNTED UNITS. REFER TO SPECIFICATION   | L.                 | PROVIDE PAINT AND RUBBER BASE AT ALL NEW CHASES, REFER<br>TO NEW WORK PLANS FOR ADDITIONAL LOCATIONS.  | ш  |   |
| R.        | SECTION 06 10 00 FOR WOOD BLOCKING RESPONSIBILITIES.<br>PROVIDE LOCKS AT ALL CASEWORK DOORS/DRAWERS AND FILE<br>UNITS TYP.   | M.                 | REFER TO STRUCTURAL DRAWINGS FOR LOCATIONS OF SLAB<br>DEPRESSIONS. REFER TO FINISH MATERIAL SPECIFICATION<br>SECTIONS FOR SLAB DEPRESSION DEPTH REQUIREMENTS.  |    |   |
| S.        | PROVIDE AS NOTED ON DRAWINGS AND DETAILS: 2" GROMMETS<br>AT OPEN BASE COUNTERS 30"/36" OC, WIRE MANAGEMENT, KEY<br>BOARD TRAYS AND CABLE TRAYS.  | N.                 | REFER TO STRUCTURAL DRAWINGS FOR LOCATIONS OF SLAB<br>DEPRESSIONS. REFER TO FINISH MATERIAL SPECIFICATION<br>SECTIONS FOR SLAB DEPRESSION DEPTH REQUIREMENTS.  | _  |   |
| Т.        | PROVIDE ALL CUTOUTS AS SHOWN ON CASEWORK PLANS AND<br>ELEVATIONS OR AS REQUIRED. CUTOUTS ARE TO INCLUDE BUT<br>NOT LIMITED TO: ALL ELEC BOXES, OUTLETS, AND ASSOCIATED<br>WIRING AND FINAL HOOK-UP.  | P.                 | CARPET IS TO RUN WALL TO WALL, UNDER ALL FURNITURE,<br>MOVEABLE EQUIPMENT AND LIBRARY SHELVING UNITS,<br>INCLUDING ALL UNITS AT THE PERIMETER WALLS.   | Ċ  |   |
| U.        | PROVIDE REMOVABLE BACK PANELS AT ALL SINK BASE CABINETS,<br>INCLUDING ADA FUMEHOODS, EYEWASHAND SAFETY STATIONS.   | Q.                 | FOR ALL RENOVATED AREAS REQUIRING FINISH WORK REMOVE,<br>PROTECT AND REINSTALL MOVABLE EQUIPMENT INCLUDING BUT<br>NOT LIMITED TO: BOARD UNITS, LOCKERS GYM EQUIPMENT,<br>SHADES/BLINDS, BOOKCASES ETC., REINSTALL IN ORIGINAL  |    |   |
| V.        | REFER TO BOTH 1/8" AND 1/4" PLANS FOR LAYOUTS.   |                    | LOCATION, OR AS NOTED ON DRAWINGS, COORDINATE WITH<br>OWNER. REFER TO SPEC SECTION OI 23 00 ALTERATION   | _  |   |
| Q.        | REFER TO SPECIFICATION SECTION 01 23 00 FOR ADDITIONAL<br>INFORMATION REGARDING CASEWORK ALTERNATES.   | R.                 | PROJECT PROCEDURES FOR MORE INFORMATION.<br>FIELD VERIFY ALL CONTROL JOINTS LOCATIONS IN CONCRETE<br>SLAB. LOCATE CONTROL JOINTS IN EXG/NEW FLOOR FINISH   |    |   |
| <u>Si</u> | <u>gnage Notes</u>   |                    | MATERIAL DIRECTLY ABOVE SLAB JOINTS OR AS RECOMMENDED<br>BY FLOORING MATERIAL MANUFACTURER.  | т  |   |
| Α.        | ALL ROOM NAMES AND NUMBERS ARE SUBJECT TO CHANGE,<br>SUPPLIER TO VERIFY WITH SCHOOL DISTRICT DURING<br>CONSTRUCTION PHASE, PRIOR TO SUBMITTAL PHASE, FOR<br>FINAL ROOM NAMES AND NUMBERS.  |                    | <ul> <li>AT NEW SLADS KEI ER TO STRUCTORAL DRAWINGS FOR SLAD</li> <li>CONTROL JOINT LOCATIONS.</li> <li>AT EXISTING SLABS, FIELD VERIFY LOCATIONS OF EXISTING</li> <li>SLAB CONTROL JOINTS.</li> <li>REFER TO FINISH DRAWINGS AND SPECIFICATIONS FOR NEW</li> <li>FLOOR MATERIALS</li> </ul>   |    |   |
| В.        | ALL PERMANENT ROOMS TO RECEIVE ROOM IDENTIFICATION SYSTEM CONTAINING BOTH TEXT AND ROOM NUMBERS.   |                    | COORDINATE FLOOR PATTERNS WITH CONTROL JOINT PRIOR TO<br>SUBMISSION OF REQUIRED FLOOR PATTERN DRAWINGS.  | _  | - |
| C         | PROVIDE BARRIER-FREE AND TACTILE SIGNAGE AT ALL<br>LOCATIONS REQUIRED BY CODE AND AS SHOWN ON THE<br>ARCHITECTURAL DRAWINGS.   | S.                 | PROVIDE ALL FINISHES AS INDICATED BY ROOM FINISH BOX<br>AND/OR AS NOTED ON DRAWINGS.   |    |   |
| D.        | COORDINATE MOUNTING HEIGHTS AS PER CABO/ANSI A117.1 AND AS PER MANUFACTURER'S RECOMMENDATIONS.   |                    |  | _  |   |
| E.        | ALL COLORS TO BE ISSUED DURING CONSTRUCTION.   |                    |  |    |   |

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![](_page_58_Picture_2.jpeg)

F. PROVIDE SIGNS AS PER SIGNAGE SCHEDULE AS REQUIRE BY

G. REFER TO SPECIFICATIONS SECTION 10 14 00 FOR MORE

CODE AND SIGNAGE DRAWING.

INFORMATION.

 Rev. No.: Date:
 Rev. No.: Date:
 Complex world
 CLEA
 Tetra Tech Engine & Landscape Arch
 Tetra Tech Engine
 Landscape Arch
 Wallkill Cer Wallkill, Ne
 Reconstruct Leptondale
 Interior Ele

> Drawn By: TTAE Project No.: **17597-220**

| rol No. 62-1                               | 8-01-06-0-001-019           |  |  |  |
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|  |                             |  |  |  |
| Description:                               |                             |  |  |  |
|  | LLKILL<br>SCHOOL DISTRICT   |  |  |  |
| AR SOLUTIONS                               | Str                         |  |  |  |
| eers, Architects<br>hitects, P.C.          | $\mathcal{O}_{\mathcal{N}}$ |  |  |  |
| <b>TETRATECH</b><br>ARCHITECTS & ENGINEERS |                             |  |  |  |
| entral Schoo<br>ew York                    | ol District                 |  |  |  |
| ction to:<br>e Elementa                    | ry School                   |  |  |  |
| evation, Def                               | ails and Signage            |  |  |  |
| Date:<br>11/4/2022                         | Drawing Number:             |  |  |  |
| 001  | EA900                       |  |  |  |

![](_page_59_Figure_0.jpeg)

|           |         |          | COM     | PONE     | ENTS | & CLADD   | ING V | VIND P  |
|-----------|---------|----------|---------|----------|------|-----------|-------|---------|
|           |         |          |         |          |      | ROC       | DF    |         |
| MEAN ROOF |         | ZON      | NE 1'   | ZON      | NE 1 | ZONE 1/1' |       | ZONE 2  |
| (FT)      | (SQ FT) | MIDDLE I | NTERIOR | INTERIOR |      | OVERHANG  | EDGE  | OVERHAN |
|           | ≤ 10    | -31.1    | 16.0    | -54.2    | 16.0 | -49.0     | -71.5 | -66.3   |
|           | 20      | -31.1    | 16.0    | -50.6    | 16.0 | -48.1     | -66.9 | -60.2   |
| 22.00     | 50      | -31.1    | 16.0    | -45.9    | 16.0 | -47.0     | -60.8 | -52.1   |
|           | 100     | -31.1    | 16.0    | -42.3    | 16.0 | -46.1     | -56.2 | -46.0   |
|           | ≥ 500   | -21.1    | 16.0    | -34.0    | 16.0 | -31.7     | -45.6 | -31.7   |

![](_page_59_Picture_7.jpeg)

| í | 1 | 1 | 2 | I | 3 | I | 4 | 5 |
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![](_page_61_Figure_0.jpeg)

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| t <mark>es</mark><br>51 For general NC | DTES.                            |
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|   |   | DWG<br>LABEL<br>RTU-E-2<br><u>NOTES:</u><br>1. G/<br>2. C0<br>3. PF   | LOCATION<br>ROOF - AREA E<br>ASKETED ACCE<br>OILS SHALL HAN<br>ROVIDE UV-C LI                                   | DESIGN<br>SERVES TRAI<br>3 GYM CSAA<br>SS DOORS AND MOD<br>/E SAME SIDE CONNE<br>GHT DOWNSTREAM C<br>(9 DEE EN TER DRIOP                   | MAKE:<br>NE SUPPL<br>017 7900<br>ULAR SECTION<br>CTION UNLESS<br>OF COOLING CO  | Y AIR OCCUP<br>CFM 4870<br>IS WITH DOUE<br>S OTHERWISE<br>DIL (TO MAINT                         | PIED OA N<br>O CFM 10<br>BLE WALLEI<br>INDICATEI<br>AIN CLEAN  | /IIN OA<br>000 CFM<br>D 2" R-13 (<br>D. PROVID<br>COIL) WIT   | SUPF<br>FAN AF<br>22.25" DD PI<br>GALVANIZED<br>FULL SEC<br>TH SEPARAT<br>EDV(12 EIL TE         | PLY FAN<br>RR<br>LENUM<br>STEEL P<br>TION HEIG<br>E 120V/1F                            | ESP<br>0.75 in-wg<br>ANELS WI<br>GHT 24" DE<br>PH POWER                    | TSP<br>4.99 in-wg<br>TH THERMAI<br>EEP PIPE CA<br>& (FLA=1.5A).   | RPM V<br>2222<br>L BREAK<br>BINET.  |                                     |
|---|---|---|---|--|---|---|--|---|---|--|--|---|---|-------------------------------------|
| DWG         UNIT         SUPPLY FAN           DWG         UNIT         SERVES         MARE         FAN ARR         (SA)         MIN. OR         DISCH.           ANDER         ADDRIAL         ARDE 0.2:00.07.51.20         BOORD 4.2:27.6.000.01.20         SA         MIN. OR         DISCH.           Image: Control of the application of the applicati  | UNIT         UNIT         DESIGN         PANARE         SUPPLY FAN           UNIT         DESIGN         SAM ARX         SAM MIC OD DISCH.         DISC           TOTO         TOTO         TOTO         TOTO         TOTO         TOTO           TOTO         TOTO         TOTO         TOTO         TOTO         TOTO           TOTO<  | 4. Pr<br>5. Pf<br>DWG<br>LABEL<br>UV-E-1<br><u>NOTES:</u><br>1. Df<br>2. FL<br>3. Pf  | LOCATION M<br>OFFICE 34 SIGN BASIS: TI<br>LOOR MOUNTEI<br>ROVIDE 1" MER   | V8 PRE-FILTER PRIOR<br>PH (FLA=8A) GFI SERV<br>ODEL NO. (CFM) C<br>/UVE075 490 1<br>RANE 3.<br>D UNIT 4.<br>V13 FILTER. 5.                 | ICE OUTLET FC<br>ICE OUTLET FC<br>IN. NO. E/<br>DA ROW (°<br>30 1 44<br>STEAM COIL (<br>VERIFY PIPE /<br>PROVIDE 22-1     | JNIT VE   | AP.<br>BH) RPM<br>4.1 730<br>STEAM TEM<br>CAL LEFT/R<br>BACK, HIGH   | MOTOR<br>QTY<br>1<br>MP=222°F,<br>GHT HAN<br>H LOUVER   | (UV) S<br>MOTOR<br>SIZE (HP)<br>0.25<br>PRESSURE<br>D CONNECT<br>AND WALL S                     | CHE<br>LECTRIC.<br>V/PH<br>120V/1¢<br>=3 PSIG<br>IONS PRI<br>SLEEVE.                   |  | ACA MOP<br>4.5 15<br>RDERING.   | INST<br>6. PF<br>7. NE  |                                     |
| Constraints and the section of  |   | DWG<br>LABEL<br>RTU-E-3   | UNIT<br>LOCATI<br>3 ROOF - AF   | -<br>ON SE<br>EA B AREA C - 2  | ERVES<br>21-29, 47, 51, 20  | DE<br>M<br>3 SEA  | SIGN<br>AKE:<br>SONS 4   | FAN<br>27" AF SV  | I ARR.<br>WSI PLENUM  | SA<br>(CFN<br>15450  | S<br>MIN.<br>1) (CF<br>0 638   | UPPLY FA<br>OA DIS<br>M) AI<br>30 MULT  | AN<br>SCH.<br>RR.<br>1-ZONE   |                                     |
| PROVIDE ENVICE POINT CONNECTION AND NEMA 3R H-CA NON-FUSED DISCONNECT SWITCH.     PROVIDE 2' MERLY PRE-FILTER AND MERVIS FINAL FILTERS BEFORE COLLS.     MAKE-UP AIR (MUA) UNIT SCHEDULE IN     MOTOR SUE IN     MORO (GIG BERVICE OUTLET:     MOTOR SUE INSTALLED VER MAKE:     MORO (GIG BERVICE OUTLET:     MOTOR SUE INSTALLED VER MAKE:     MORO (GIG BERVICE OUTLET:     MOTOR SUE INSTALLED VER MAKE:     MORO (GIG BERVICE AUR OR AND INSTANCE ON TOTOR)     MORO (GIG BERVICE AUR OR AND INSTANCE ULOYRE NUETS AND OUTLETS.     NOTES:     MORO (GIG BERVICE OUTLER AND AND CONNECTIONS PROR TO ORDERING.     MORO (GIG BERVICE AUR ORANOTIES ARE DASED ON NUDOR COLLECTRICAL LEFTRIGHT HAND CONNECTIONS PROR TO ORDERING.     MORO (GIG BERVICE AUR ORANOTIES ARE DASED ON NUDOR COLLECTRICAL LEFTRIGHT HAND CONNECTIONS PROR TO ORDERING.     MORO (GIG BERVICE AUR ORANOTIES ARE DASED ON NUDOR COLLECTRICAL LEFTRIGHT HAND CONNECTIONS PROR TO ORDERING.     MORO (GIG BERVICE AUR ORANOTIES ARE DASED ON NUDOR COLLECTRICAL LEFTRIGHT HAND CONNECTIONS PROR TO ORDERING.     MORO (GIG BERVI | Provide and point convectors and numbers in a number and proceed colds.     Provide and numbers in the data metrics in a number of the data of t  | 1. GA<br>2. PR<br>3. PR<br>3. PR<br>DWG<br>LABEL<br>RTU-E-1<br><u>NOTES:</u><br>1. GA<br>2. CC  | SKETED ACCES<br>OVIDE ELECTR<br>OVIDE 2" MERV<br>LOCATION<br>ROOF - AREA C<br>SKETED ACCES                      | SS DOORS AND MODU<br>ICAL/CONTROLS SEC<br>9 PRE-FILTER PRIOR<br>SERVES<br>CAFETERIA L114<br>SS DOORS AND MODU<br>E SAME SIDE CONNEC        | JLAR SECTION:<br>TION FOR UNIT<br>TO ENERGY W<br>DESIGN MAKE<br>VALENT<br>VX-212-151-2-A<br>JLAR SECTION:<br>CTION UNLESS | S WITH DOUB<br>DISCONNECT<br>HEEL (BOTH D<br>S WITH DOUB<br>OTHERWISE                           | LE WALLED<br>T SWITCH, N<br>DIRECTIONS<br>MIN. OA<br>(CFM)<br>2600<br>LE WALLED<br>INDICATED                     | 2" R-13 G<br>WHEEL H-<br>S) AND ME<br><b>F</b><br>LY FAN<br>ESP<br>(IN-WG)<br>0.5<br>2" R-13 G<br>. PROVIDE | ALVANIZED<br>O-A SWITCH<br>RV14 FILTEF<br>PACKA<br>BHP HP<br>1.5 3.0<br>GALVANIZED<br>FULL SECT | STEEL PA<br>, CONTRO<br>RS BEFOR<br>GED<br>EAT<br>(°F)<br>28.4<br>STEEL PA<br>ION HEIG | RESUPPLY<br>RESUPPLY<br>HEATING<br>LAT S<br>(°F) PF<br>86.0 3<br>ANELS WIT | TH THERMAL<br>SUPPLY AND<br>FAN. ALL F<br>DATA<br>TEAM CAI<br>RESS. (MB<br>0 psi 249<br>TH THERMAL<br>EP PIPE CAE | BREAK.<br>RETURN<br>ILTER FA<br>UNIT<br>P. EDI<br>H) (°F<br>.3 83.3<br>BREAK.<br>BINET. |                                     |
| CABINET UNIT HEATER (CUH) SCHEDULE INSTALLED BY MECHA           DURY LEAST DEPLIFIENT OF THE ATT INSTALLED BY MECHA           DWG LABEL         LOCATION MODEL NO. SA         MOTES         STEAM MOTE FURSIS         STEAM MOTE FURSIS         STEAM MOTE FURSIS         CUH-EVA1 VESTIBULE V1 FFMB020 200 2 600 1139 11.7         STEAM MOTE FURSIS         CUH-EVA1 VESTIBULE V1 FFMB020 200 2 600 1139 11.7         STEAM MOTE FURSIS         CUH-EVA1 VESTIBULE V2 FFMB020 200 2 2 600 1139 11.7         STEAM MOTE FURSIS         CUH-EVA1 JOSCONNECT SWITCH.           NOTES         A PROVIDE NEMA 1 DISCONNECT SWITCH.           A PROVIDE LEMA 1 DISCONNECT SWITCH.           STEAM MOTE CABINET 3.         PROVIDE 1' MERV 6 FILTER         STEAM MOTE CABINET 3.           DUSC FILTER TO STATUTE FOOT STANDED LOUVER INTERS AND OUTLETS.           INTERV FILTE TRANE         SUPPLY FUN OUTSI           LOCATION MAKE: TRANE         NOTES:           DUSC FILTER TRANE         NOTES:           INTERVETION COLSPANET STAND OUTLETS AND OUTLETS.           NOTES:           NOTES:           NOTES:          NOTES:  | CABINET UNIT HEATER (CUH) SCHEDUL       EDUPWENT FUR         Diverting Data       STERME       SUPPLY FM       CUPPLY FM       CUPLY FM       CUPPLY FM <th colspan<="" td=""><td>3. PR<br/>4. PR<br/>DWG<br/>LABEL<br/>MUA-E-1<br/>NOTES:<br/>1. PR<br/>2. PR</td><td>OVIDE SINGLE<br/>OVIDE 2" MERV<br/>LOCATION<br/>ROOF - AREA B</td><td>POINT CONNECTION A<br/>8 PRE-FILTER AND ME<br/>SERVES M<br/>KITCHEN L113 C<br/>CI SERVICE OUTLET.<br/>F CURB.</td><td>AND NEMA-3R I<br/>ERV13 FINAL FI<br/>DESIGN<br/>(E: TRANE<br/>MODEL:<br/>SAA008<br/>3.</td><td>H-O-A NON-FU<br/>LTERS BEFOF<br/>IAKE-UI<br/>SU<br/>PPLY/OUTSIDE<br/>AIRFLOW<br/>3300 CFM<br/>PROVIDE U</td><td>ISED DISCO<br/>RE COILS.<br/>PAIR<br/>IPPLY FAN<br/>E ESP<br/>0.50 in-wo</td><td>RPM<br/>2056<br/>NNECT, FA</td><td>WITCH.<br/>() UNIT<br/>EL<br/>HP VOLT/PI<br/>3 208/3<br/>ACTORY INST</td><td>SCH<br/>ECTRICAL<br/>H FLA<br/>15 A<br/>TALLED V</td><td>IEDUI<br/>L DATA<br/>MCA MO<br/>19 A 30<br/>FD AND TE</td><td>EAT LA<br/>A 8.7 79</td><td>I<br/>HEATING<br/>CAP.<br/>T (M<br/>5 2</td></th>   | <td>3. PR<br/>4. PR<br/>DWG<br/>LABEL<br/>MUA-E-1<br/>NOTES:<br/>1. PR<br/>2. PR</td> <td>OVIDE SINGLE<br/>OVIDE 2" MERV<br/>LOCATION<br/>ROOF - AREA B</td> <td>POINT CONNECTION A<br/>8 PRE-FILTER AND ME<br/>SERVES M<br/>KITCHEN L113 C<br/>CI SERVICE OUTLET.<br/>F CURB.</td> <td>AND NEMA-3R I<br/>ERV13 FINAL FI<br/>DESIGN<br/>(E: TRANE<br/>MODEL:<br/>SAA008<br/>3.</td> <td>H-O-A NON-FU<br/>LTERS BEFOF<br/>IAKE-UI<br/>SU<br/>PPLY/OUTSIDE<br/>AIRFLOW<br/>3300 CFM<br/>PROVIDE U</td> <td>ISED DISCO<br/>RE COILS.<br/>PAIR<br/>IPPLY FAN<br/>E ESP<br/>0.50 in-wo</td> <td>RPM<br/>2056<br/>NNECT, FA</td> <td>WITCH.<br/>() UNIT<br/>EL<br/>HP VOLT/PI<br/>3 208/3<br/>ACTORY INST</td> <td>SCH<br/>ECTRICAL<br/>H FLA<br/>15 A<br/>TALLED V</td> <td>IEDUI<br/>L DATA<br/>MCA MO<br/>19 A 30<br/>FD AND TE</td> <td>EAT LA<br/>A 8.7 79</td> <td>I<br/>HEATING<br/>CAP.<br/>T (M<br/>5 2</td> | 3. PR<br>4. PR<br>DWG<br>LABEL<br>MUA-E-1<br>NOTES:<br>1. PR<br>2. PR   | OVIDE SINGLE<br>OVIDE 2" MERV<br>LOCATION<br>ROOF - AREA B   | POINT CONNECTION A<br>8 PRE-FILTER AND ME<br>SERVES M<br>KITCHEN L113 C<br>CI SERVICE OUTLET.<br>F CURB.                  | AND NEMA-3R I<br>ERV13 FINAL FI<br>DESIGN<br>(E: TRANE<br>MODEL:<br>SAA008<br>3.                | H-O-A NON-FU<br>LTERS BEFOF<br>IAKE-UI<br>SU<br>PPLY/OUTSIDE<br>AIRFLOW<br>3300 CFM<br>PROVIDE U                 | ISED DISCO<br>RE COILS.<br>PAIR<br>IPPLY FAN<br>E ESP<br>0.50 in-wo   | RPM<br>2056<br>NNECT, FA  | WITCH.<br>() UNIT<br>EL<br>HP VOLT/PI<br>3 208/3<br>ACTORY INST                        | SCH<br>ECTRICAL<br>H FLA<br>15 A<br>TALLED V                               | IEDUI<br>L DATA<br>MCA MO<br>19 A 30<br>FD AND TE   | EAT LA<br>A 8.7 79  | I<br>HEATING<br>CAP.<br>T (M<br>5 2 |
| HEAT PUMP (HP) SCHEDULE         DWG       DESIGN MAKE:<br>TRANE<br>MITSUBISHI<br>MODEL:       NOMINAL CAP.       SUPPLY<br>(BTU/h)       SUPPLY<br>(BTU/h)       OUTSI<br>SETTING AIR (CFM) AIR (CI<br>9.000         HP-E-1       SEC OFFICE SO1       NTXCKS09A112AA       4-WAY CEILING CASSETTE       9.000       6.900       HIGH       300       20         NOTES:       1.       NOMINAL COOLING CAPACITIES ARE BASED ON INDOOR COIL EAT OF 80/87* (DBMB), OUTDOOR OF 95* (DB).       0.000       1000       20         NOTES:       1.       NOMINAL HEATING CAPACITIES ARE BASED ON INDOOR COIL EAT OF 70* (DB), OUTDOOR OF 95* (DB).       0.000       1000       20         NOTES:       1.       NOMINAL HEATING CAPACITIES ARE BASED ON INDOOR COIL EAT OF 70* (DB), OUTDOOR OF 95* (DB).       0.000       1000       20         NOTES:       1.       NOMINAL HEATING CAPACITIES ARE BASED ON INDOOR COIL EAT OF 70* (DB), OUTDOOR OF 95* (DB).       0.000       10000       1000       1000  | HEAT PUMP (HP) SCHEDULE         DWG<br>LABEL       DESIGN MAKE:<br>TRANE<br>MITSUBISHI<br>MODEL:       NOMINAL CAP.       SUPPLY<br>FAN       SUPPLY<br>SUPPLY       OUTSI<br>SUPPLY         HP-E-1       SEC.OFFICE SO1       NTXCKS09A112AA       4-WAY CELING CASSETTE       9,000       6,900       High       300       20         NOTES:       NOMINAL COOLING CAPACITIES ARE BASED ON INDOOR COIL EAT OF 80/677F (DB/WB), OUTDOOR OF 95°F (OB).       0.000       6,900       High       300       20         NOTES:       NOMINAL COOLING CAPACITIES ARE BASED ON INDOOR COIL EAT OF 80/677F (DB/WB), OUTDOOR OF 95°F (OB).       0.000       0.000       100       0.000       100       100       20         SEE OUTDOOR UNIT SCHEDULE FOR OUTDOOR AMBIENT CONDITIONS, CONNECTED CAPACITY, AND OTHER FACTORS ASSOCIATED WITH CONDICATION OF 070°F (DB, OUTDOOR OF 95°F (OB).       0.000       100       1.55       55       50       0.000 NUMT EMOTE CONTROLLERS, J.       50       0.000 NUMT EMOTE CONTROLL   | DWG LABI<br>CUH-E-V<br>CUH-E-V<br><u>NOTES:</u><br>1. DE<br>2. INV<br>3. PR   | EL LOCA<br>1 VESTIB<br>2 VESTIB<br>SIGN BASIS: TR<br>/ERTED VERTIC<br>OVIDE 1" MERV                             | TION MODEL NO<br>ULE V1 FFMB020<br>ULE V2 FFMB020<br>ANE 3.<br>CANE 3.<br>CANE 4.<br>CANE 5.   | ABINET<br>SA N<br>CFM RC<br>200 2<br>PROVIDE N<br>PROVIDE N<br>PROVIDE FI<br>VERIFY PIP                                   | HEATING<br>O. EAT<br>OW (°F)<br>2 60.0<br>2 60.0<br>EMA 1 DISCOM<br>RONT STAMPH<br>E AND ELECTI | <b>IEATE</b><br>DATA<br>LAT CAF<br>(°F) (MBF<br>113.9 11.7<br>113.9 11.7<br>NNECT SWI<br>ED LOUVER<br>RICAL LEFT | TCH.<br>RIGHT H   | UH) SC<br>M SUPPL<br>S. ESP<br>(IN. WG.<br>0.05<br>0.05<br>ND OUTLET<br>AND CONNEC              | CHED<br>Y FAN<br>P RPM<br>760<br>760<br>S.<br>CTIONS P                                 | MOTOR S<br>(HP)<br>0.04<br>0.04  | EQUIPI<br>NSTALLED B<br>ELECT<br>IZE<br>V/PH<br>120V/1<br>120V/1  | MENT FU<br>Y MECH,<br>RICAL<br>FLA<br>Ø 2.2<br>Ø 2.2                                    |                                     |
| NOTES:         1.       NOMINAL COOLING CAPACITIES ARE BASED ON INDOOR COIL EAT OF 80/67°F (DB/WB), OUTDOOR OF 95°F (DB).         2.       NOMINAL HEATING CAPACITIES ARE BASED ON INDOOR COIL EAT OF 70°F (DB), OUTDOOR OF 43°F (WB).         3.       SEE OUTDOOR UNIT SCHEDULE FOR OUTDOOR AMBIENT CONDITIONS, CONNECTED CAPACITY, AND OTHER FACTORS ASSOCIATED WITH COIL         4.       SEE SCHEMATIC PIPING/CONTROL DIAGRAM FOR INDICATION OF REQUIRED INDOOR VIT REMOTE CONTROLLERS, SYSTEM CONTROLLERS, .         5.       FULL DEMAND CORRECTED CAPACITY INCLUDES DE-RATE ASSOCIATED WITH INDOOR VS. OUTDOOR CONNECTED CAPACITY INDICATED ON CONTROLLERS, .         6.       PROVIDE INTEGRAL CONDENSATE PUMP WITH 33° LIFT CAPABILITY.         7.       PROVIDE TOGGLE DISCONNECT.         INDIVIDE TOGGLE DISCONNECT.   | NOTES:<br>1. NOMINAL COOLING CAPACITIES ARE BASED ON INDOOR COIL EAT OF 80/87'F (DB/WB), OUTDOOR OF 95'F (DB).<br>2. NOMINAL HEATING CAPACITIES ARE BASED ON INDOOR COIL EAT OF 70'F (DB), OUTDOOR OF 95'F (WB).<br>3. SEE OUTDOOR UNIT SCHEDULE FOR OUTDOOR AMBIENT CONDITIONS. CONNECTED CAPACITY, AND OTHER FACTORS ASSOCIATED WITH CO.<br>3. SEE SCHEMATIC PIPING/CONTROL DIAGRAM FOR INDICATION OF REQUIRED INDOOR UNIT REMOTE CONTROLLERS, SYSTEM CONTROLLERS, .<br>5. FULL DEMAND CORRECTED CAPACITY INDICATED ON (CONTROLLERS), SUBTING CONTROLLERS, SYSTEM CONTROLLERS, .<br>5. FULL DEMAND CORRECTED CAPACITY INDICATED ON (CONTROLLERS), SUBTING CONTROLLERS, SYSTEM CONTROLLERS, .<br>5. FULL DEMAND CORRECTED CAPACITY INDICATED ON (CONTROLLERS), SUBTING CONNECTED CAPACITY INDICATED ON (CONTROLLERS), SYSTEM CONTROLLERS, .<br>5. FULL DEMAND CORRECTED CAPACITY INDICATED ON (CONTROLLERS), SUBTING CONNECTED CAPACITY INDICATED ON (CONTROLLERS), SYSTEM CONTROLLERS), SUBTING CONTROLLERS, SYSTEM CONTROLLERS, .<br>5. FULL DEMAND CORRECT.<br>7. PROVIDE TOEGGLE DISCONNECT.<br>7. PROVIDE TOEGLE DISCONNECT.<br>7. NOTES:<br>7. NOMINAL COLING CAPACITIES ARE BASED ON INDOOR COLLEAT OF 80/87'F (DB/WB), OUTDOOR OF 95'F (DB).<br>7. NOMINAL HEATING CAPACITIES ARE BASED ON INDOOR COLLEAT OF 70'F (DB), OUTDOOR OF 95'F (DB).<br>7. NOMINAL HEATING CAPACITIES ARE BASED ON INDOOR COLLEAT OF 70'F (DB, OUTDOOR OF 95'F (DB).<br>7. NOMINAL COLING CAPACITIES ARE BASED ON INDOOR COLLEAT OF 70'F (DB, OUTDOOR OF 95'F (DB).<br>7. NOMINAL HEATING CAPACITIES ARE BASED ON INDOOR COLLEAT OF 70'F (DB, OUTDOOR OF 95'F (DB).<br>7. NOMINAL HEATING CAPACITIES ARE BASED ON INDOOR COLLEAT OF 70'F (DB), OUTDOOR OF 95'F (DB).<br>7. NOMINAL HEATING CAPACITIES ARE BASED ON INDOOR COLLEAT OF 70'F (DB), OUTDOOR | DWG<br>LABEL<br>HP-E-1  | LOCATIO<br>SEC. OFFICE  | DESIGN N<br>TRAN<br>MITSUB<br>MODE<br>SO1 NTXCKS09A  | 1AKE:<br>E<br>ISHI<br>EL:<br>112AA 4-W  | UNIT TY   | PE   | HEA<br>NOM<br>CLG<br>(BTU/  | T PUM<br>1INAL CAF<br>h) (BTU<br>6,90   | IP (H<br>2.<br>3<br>/h) SE   | P) SC<br>JPPLY<br>FAN<br>TTING A   | SUPPLY<br>AIR (CFM)   | OUTS<br>AIR (C  |                                     |
| REMOTE CONDENSING UNIT (RCU) SCHEDULE (FOR HP)         DESIGN MAKE:<br>TRANE/<br>MITSUBISHI       NOMINAL CAPACITY       ELECTRICAL DATA       NOTES         DWG<br>LABEL       LOCATION       MODEL:       (BTU/h)       EER /<br>SEER       (BTU/h)       COP @<br>47°F       VOLT/PH       MCA       MOCP         RCU-E-1       ROOF       NTXSKS09A112AA       9,000       13.4/22.4       11,000       3.9       208V/1PH       9       15       1-4   | REMOTE CONDENSING UNIT (RCU) SCHEDULE (FOR HP)         Image: Design make: Trane/<br>Mitsubishi       NOMINAL CAPACITY       Electrical data         DWG       LOCATION       MODEL:       Image: Ool ING       HEATING       Electrical data         LABEL       LOCATION       MODEL:       Image: Ool ING       HEATING       Electrical data         RCU-E-1       ROOF       NTSSKS09A112AA       9,000       13.4/22.4       11,000       3.9       208V / 1PH       9       15       1.4         NOTES         1       NOMINAL COOLING CAPACITIES ARE BASED ON INDOOR COIL EAT OF 80/87°F (DB/WB), OUTDOOR OF 95°F (DB).         2.       NOMINAL HEATING CAPACITIES ARE BASED ON INDOOR COIL EAT OF 70°F (DB), OUTDOOR OF 43°F (WB).       1.4         NOTES         1.       NOMINAL COOLING CAPACITIES ARE BASED ON INDOOR COIL EAT OF 70°F (DB/WB), OUTDOOR OF 95°F (DB).         2.       NOMINAL HEATING CAPACITIES ARE BASED ON INDOOR COIL EAT OF 70°F (DB). OUTDOOR OF 43°F (WB).         3.       PROVIDE 18° STRUT SUPPORT SYSTEM (DESIGN BASIS: GREEN LINK ECO-ENGINEERING "KNUCKLEHEAD").         4.       PROVIDE NEMA 3R DISCONNECT.  | NOTES:<br>1. NOM<br>2. NOM<br>3. SEE<br>4. SEE<br>5. FULL<br>6. PRO'<br>7. PRO'   | IINAL COOLING<br>IINAL HEATING<br>OUTDOOR UNIT<br>SCHEMATIC PIF<br>DEMAND COR<br>VIDE INTEGRAL<br>VIDE TOGGLE D | CAPACITIES ARE BAS<br>CAPACITIES ARE BAS<br>SCHEDULE FOR OUT<br>PING/CONTROL DIAGR<br>RECTED CAPACITY IN<br>CONDENSATE PUMP<br>DISCONNECT. | ED ON INDOOF<br>ED ON INDOOF<br>DOOR AMBIEN<br>AM FOR INDIC<br>CLUDES DE-RA<br>WITH 33" LIFT                              | R COIL EAT OF<br>R COIL EAT OF<br>NT CONDITION<br>ATION OF REC<br>ATE ASSOCIAT<br>CAPABILITY.   | 5 80/67°F (D<br>70°F (DB),<br>IS, CONNEC<br>QUIRED INC<br>FED WITH IN  | B/WB), OL<br>OUTDOOF<br>CTED CAP<br>DOOR UNI<br>NDOOR VS  | JTDOOR OF 9<br>R OF 43°F (W<br>ACITY, AND<br>T REMOTE C<br>S. OUTDOOR                           | 95°F (DB).<br>B).<br>OTHER F.<br>ONTROLI<br>CONNEC                                     | ACTORS A<br>LERS, SYS<br>CTED CAPA   | SSOCIATED<br>TEM CONTR<br>ACITY INDICA  | WITH CO<br>OLLERS<br>ATED ON  |                                     |
|   | NOTES:       1.       NOMINAL COOLING CAPACITIES ARE BASED ON INDOOR COIL EAT OF 80/67°F (DB/WB), OUTDOOR OF 95°F (DB).         2.       NOMINAL HEATING CAPACITIES ARE BASED ON INDOOR COIL EAT OF 70°F (DB), OUTDOOR OF 43°F (WB).         3.       PROVIDE 18" STRUT SUPPORT SYSTEM (DESIGN BASIS: GREEN LINK ECO-ENGINEERING "KNUCKLEHEAD").         4.       PROVIDE NEMA 3R DISCONNECT.   | DWG<br>LABEL  |   | TE CONDEN<br>DESIGN MAKE:<br>TRANE/<br>MITSUBISHI<br>MODEL:  | NSING UNO<br>COOLI<br>(BTU/h)   | JNIT (RO<br>MINAL CAP<br>NG<br>EER /<br>SEER (B <sup>-</sup><br>34/224 1                        | CU) SO<br>PACITY<br>HEATIN<br>TU/h) CO<br>1 000  | IG<br>IG<br>DP @ \<br>17°F  | DULE (I<br>ELECTF<br>VOLT/PH  | FOR<br>RICAL E<br>MCA  | HP)<br>DATA<br>MOCP  | NOTES   | _   |                                     |
|   |   |   |   |  |   |   |  |   |   |  |  |   |   |                                     |
|   |   |   |   |  |   |   |  |   |   |  |  |   |   |                                     |
|   |   |   |   |  |   |   |  |   |   |  |  |   |   |                                     |

![](_page_67_Figure_1.jpeg)

| 13 14 15 16 17   |  |
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| EQUIPMENT FURNISHED BY OWNER,<br>INSTALLED BY MECHANICAL CONTRACTOR         EQUIPMENT FURNISHED BY OWNER,<br>INSTALLED BY MECHANICAL CONTRACTOR         HEATING DATA         INSTALLED BY MECHANICAL CONTRACTOR         SENSIBLE<br>CAPACITY<br>(MBH)       APD       CAPACITY<br>(MBH)       INLET<br>PRESSURE<br>(psig)       CONDENSATE<br>(lb/hr)       OPER.<br>PD       OPER.<br>WEIGHT       OPER.         181       0.56 in-wg       1       64       89.1       215       0.11 in-wg       3       259.4       4.55 in-wg       6894 lb       1-14         DLING COIL.         OF CURB. PROVIDE ACOUSTICALLY LINED         DI PROVIDE 22" ELECTRICAL/CONTROLS SECTION FOR FAN VFDs.         OF CURB. PROVIDE ACOUSTICALLY LINED         DI PROVIDE 22" ELECTRICAL/CONTROLS SECTION FOR FAN VFDs.         CH AND DOOR LIMIT SWITCH FOR UV-C LIGHT.         13       PROVIDE FACTORY-INSTALLED SUPPLY AND EXHAUST FAN VFDs.         TER FOR ENERGY WHEEL.         14         PROVIDE FACTORY-INSTALLED SUPPLY AND EXHAUST FAN VFDs.         TER FOR ENERGY WHEEL.         14       PROVIDE NEMA 3R UNIT DISCONNECT SWITCH.  | <  |
| EQUIPMENT FURNISHED BY OWNER, INSTALLED BY MECHANICAL CONTRACTOR         NO. OF         NO. OF COMP/CAPACITY       ELECTRICAL DATA - 208V/3PH       OPER.         SUCTION       TEMPERATURE       EER       NO. OF COMP/CAPACITY       CIRCUITS       MCA       MOP       RLA - COMP. 1       NO. COMP.         SUCTION       TEMPERATURE       EER       NO. OF COMP/CAPACITY       MCA       MOP       RLA - COMP. 1       NO. COMP.       WEIGHT       NOTES         39.5 °F       95       12.1       (1) 10-TON, (1) 13.5-TON       2       120 A       150 A       52 A       2       1930       1-4         ERIFY LINE SIZES WITH MANUFACTURER.         ROVIDE 14" SPRING ISOLATION SUPPORT RAILS.  |  |
| EQUIPMENT FURNISHED BY OWNER, INSTALLED BY MECHANICAL CONTRACTOR         WINTER       ENERGY<br>RECOVERY         WINTER       ENERGY<br>RECOVERY       HEATING DATA       HOT WATER COIL         VB       EWB       LDB       LWB       EFFICIENCY       NO.       EAT       LAT       APD       EWT       LWT       WPD         70       (°F)       (°F)       (°F)       (°F)       MBH       (IN WG)       (°F)       GPM       (FT HD)       NOTES         3       51.5       34.1       29       54.3       4       41.7       80.1       640.2       0.57       160       60.2       13.1       3.2       ALL  |  |
| MODEL       CFM       VENT       HOOD       HOOD       CURB       FREE       VELOCITY       SP         RVES       NO.       TYPE       CFM       SIZE       SIZE       HEIGHT       HEIGHT       HEIGHT       AREA       VELOCITY       (IN       HOOD       HOOD         RVES       NO.       TYPE       CFM       SIZE       SIZE       HEIGHT       HEIGHT       (IN)       (S.F.)       (FPM)       WG)       FINISH       NOTES         ML112       36x36GR       RELIEF       3400       36x36       68x63       21.75       14       9.00       380       0.03       KYNAR       1, 2, 3, 4         BASIS: LOREN COOK       3.       PROVIDE MOTORIZED AUTOMATIC AIR DAMPER (AAD) AND ACTUATOR BELOW ROOF STRUCTURE.       4.       VERIFY EXISTING ROOF CURB AND VENT SIZE. MATCH EXISTING.  |  |
| COMPRESSOR 1   |  |
| CLG HTG CUL COL COL COL COL COL COL COL COL COL CO   |  |
| A<br>ECONOMIZER<br>BYPASS<br>RECIRCULATION<br>DAMPER<br>RECIRCULATION<br>DAMPER<br>RECIRCULATION<br>DAMPER<br>RECIRCULATION<br>DAMPER<br>RECIRCULATION<br>DAMPER<br>RECIRCULATION<br>DAMPER<br>RECIRCULATION<br>DAMPER<br>RECIRCULATION<br>DAMPER<br>RECIRCULATION<br>DAMPER<br>RECIRCULATION<br>DAMPER<br>RECIRCULATION<br>DAMPER<br>RECIRCULATION<br>DAMPER<br>RECIRCULATION<br>DAMPER<br>RECIRCULATION<br>DAMPER<br>RECIRCULATION<br>DAMPER<br>RECIRCULATION<br>DAMPER<br>RECIRCULATION<br>DAMPER<br>RECIRCULATION<br>DAMPER<br>RECIRCULATION<br>RECIRCULATION<br>DAMPER<br>RECIRCULATION<br>RECIRCULATION<br>RECIRCULATION<br>RECIRCULATION<br>RECIRCULATION<br>RECIRCULATION<br>RECIRCULATION<br>RECIRCULATION<br>RECIRCULATION<br>RECIRCULATION<br>RECIRCULATION<br>RECIRCULATION<br>RECIRCULATION<br>RECIRCULATION<br>RECIRCULATION<br>RECIRCULATION<br>RECIRCULATION<br>RECIRCULATION<br>RECIRCULATION<br>RECIRCULATION<br>RECIRCULATION<br>RECIRCULATION<br>RECIRCULATION<br>RECIRCULATION<br>RECIRCULATION<br>RECIRCULATION<br>RECIRCULATION<br>RECIRCULATION<br>RECIRCULATION<br>RECIRCULATION<br>RECIRCULATION<br>RECIRCULATION<br>RECIRCULATION<br>RECIRCULATION<br>RECIRCULATION<br>RECIRCULATION<br>RECIRCULATION<br>RECIRCULATION<br>RECIRCULATION<br>RECIRCULATION<br>RECIRCULATION<br>RECIRCULATION<br>RECIRCULATION<br>RECIRCULATION<br>RECIRCULATION<br>RECIRCULATION<br>RECIRCULATION<br>RECIRCULATION<br>RECIRCULATION<br>RECIRCULATION<br>RECIRCULATION<br>RECIRCULATION<br>RECIRCULATION<br>RECIRCULATION<br>RECIRCULATION<br>RECIRCULATION<br>RECIRCULATION<br>RECIRCULATION<br>RECIRCULATION<br>RECIRCULATION<br>RECIRCULATION<br>RECIRCULATION<br>RECIRCULATION<br>RECIRCULATION<br>RECIRCULATION<br>RECIRCULATION<br>RECIRCULATION<br>RECIRCULATION<br>RECIRCULATION<br>RECIRCULATION<br>RECIRCULATION<br>RECIRCULATION<br>RECIRCULATION<br>RECIRCULATION<br>RECIRCULATION<br>RECIRCULATION<br>RECIRCULATION<br>RECIRCULATION<br>RECIRCULATION<br>RECIRCULATION<br>RECIRCULATION<br>RECIRCULATION<br>RECIRCULATION<br>RECIRCULATION<br>RECIRCULATION<br>RECIRCULATION<br>RECIRCULATION<br>RECIRCULATION<br>RECIRCULATION<br>RECIRCULATION<br>RECIRCULATION<br>RECIRCULATION<br>RECIRCULATION<br>RECIRCULATION<br>RECIRCULATION<br>RECIRCULATION<br>RECIRCULATION<br>RECIRCULATION<br>RECIRCULATION<br>RECIRCULATION<br>RECIRCULATION<br>RECIRCULATION<br>RECIRCULATION<br>RECIRCULATION<br>RECIRCULATI | -<br>S.E.D. Control No. 62-18-01-06-0-001-019  |
| AU<br>DO<br>DO<br>DO<br>DO<br>DO<br>DO<br>DO<br>DO<br>DO<br>DO<br>DO<br>DO<br>DO   | 2 12/12/2022 SED ADD NO.<br>Rev. No.: Date: Description:   |
| WITH THE OUTSIDE AIR REQUIREMENT. ALL TEMPERATURE SETPOINTS ARE TO BE ADJUSTABLE AT THE OWS. RUN SUPPLY FAN AT THE (FULL AIRFLOW)<br>ANCING CONTRACTOR FOR MECHANICAL COOLING.<br>IEEL. WHEEL ENERGY ECONOMIZER BYPASS DAMPERS SHALL BE CLOSED.<br>DE AIR BY DIRECT MEASUREMENT OF AIRFLOW RATE VIA AIR FLOW MEASURING DEVICES LOCATED AT THE INTAKE TO THE RTU. REFER TO SECTION 23 09 00<br>SENSORS. CALIBRATE THESE SENSORS WITH THE BALANCING CONTRACTOR AND MANUFACTURER AS PART OF SYSTEM COMMISSIONING WORK.<br>MODES: CLASS AND EVENT MODES. MODULATE THE RETURN AND OUTSIDE AIR DAMPERS TO THE POSITION REQUIRED TO MAINTAIN THE MINIMUM OUTSIDE<br>CH MODE. NEVER POSITION DAMPERS BELOW THESE MINIMUM FLOWRATES DURING OCCUPANCY EXCEPT IN CASE OF ALARM. PROVIDE FOR EVENT MODE /<br>LING AT THE OWS. PROVIDE PUSH BUTTON IN SPACE TO OVERRIDE (ANY) MODE TO EVENT MODE FOR A PERIOD OF ONE HOUR. NEVER POSITION THE<br>IMMUM POSITION DURING THE OCCUPANCY CYCLE EXCEPT IN CASE OF ALARM.<br>T OR BELOW THE HEATING SETPOINT, MODULATE THE HEATING HOT WATER THREE WAY CONTROL VALVE AS REQUIRED TO MEET THE HEATING<br>"ER COOLING. PROVIDE MODULATING ACTUATORS FOR RELIEF DAMPERS; MODULATE OPEN FROM CLOSED AT MINIMUM OUTSIDE AIR TO FULLY OPEN AT 100%<br>ENERGY WHEEL ECONOMIZER BYPASS DAMPERS. WHEN ECONOMIZER COOLING CANNOT MAINTAIN THE SPACE COOLING REQUIREMENTS, ENABLE  | <ul> <li>complex world</li> <li>CLEAR SOLUTIONS</li> <li>Tetra Tech Engineers, Architects<br/>&amp; Landscape Architects, P.C.</li> </ul>                        |
| EM AT LOWEST CAPACITY REQUIRED TO MEET THE COOLING TEMPERATURE SETPOINT.<br>EXHAUST FAN SHALL BE OFF. OUTSIDE AIR, EXHAUST AIR AND ENERGY WHEEL ECONOMIZER BYPASS DAMPERS SHALL BE CLOSED. RECIRCULATION DAMPER<br>PPLY FAN SPEED AND HOT WATER COIL VALVE AS REQUIRED TO MAINTAIN SPACE TEMPERATURE SETPOINT 65°F (ADJ.).<br>CHANICAL COOLING SYSTEM BUT PROVIDE ECONOMIZER COOLING. ON CALL FOR COOLING, OPEN THE OUTSIDE AIR, EXHAUST AIR, ENERGY WHEEL<br>EF AIR DAMPERS, CLOSE THE RECIRCULATION DAMPER AND ENABLE THE SUPPLY AND EXHAUST FANS. RUN FANS AT THE SPEED REQUIRED TO MAINTAIN THE<br>HEN UNOCCUPIED COOLING SETPOINT IS REACHED, DISABLE THE FANS AND CLOSE THE DAMPERS.<br>E IS BELOW 34 DEG. F (ADJ.), POSITION THE HEATING THREE-WAY CONTROL VALVE 100% (ADJ.) OPEN TO COIL.  | -       Wallkill Central School District         Wallkill, New York  |
| JM START PROGRAM.<br>AT FULL SPEED (60 HZ.), AND MODULATE THE HEATING VALVE, ECONOMIZER COOLING OR MECHANICAL COOLING AS REQUIRED TO MAINTAIN TEMPERATURE<br>MAINTAIN THE OUTSIDE AIR, (RTH) RELIEF AIR, SUPPLY AIR, ENERGY WHEEL ECONOMIZER BYPASS AND RECIRCULATION AIR DAMPERS IN THE UNOCCUPIED<br>RGY WHEEL OFF UNTIL MORNING WARM-UP (COOL DOWN) HAS BEEN ACCOMPLISHED. WHEN MORNING WARM-UP HAS BEEN ACCOMPLISHED, SLOWLY<br>ER OCCUPIED MODE POSITION. AVOID SUDDEN TEMPERATURE SWINGS AND ACTIVATION OF THE LOW TEMPERATURE LIMIT. TIMING OF WARMUP MODE SHALL<br>GE "PURGE" BEFORE THE BEGINNING OF THE OCCUPIED PERIOD SCHEDULED.   | Reconstruction to:<br>Leptondale Elementary School   |
| URE SWITCHES ACROSS EACH FILTER BANK; ALARM THE OWS WHEN THE FILTERS (AND WHICH FILTER BANK) EXCEED THEIR DIFFERENTIAL PRESSURE LIMIT.<br>EEDBACK FROM VSD. WHEN THE SPEED COMMAND AND FEEDBACK STATUS DO NOT AGREE, GENERATE AN ALARM AT THE OWS.<br>TATUS SENSORS ACROSS COMPRESSORS. WHEN THE RCU COMMAND AND COMPRESSOR STATUS DO NOT AGREE, GENERATE AN ALARM AT THE OWS.<br>A ANALOG TEMPERATURE SENSOR AT EXPECTED FREEZE LOCATION, AND "LOWEST FOOT" STYLE MANUAL RESET FREEZESTAT. WHENEVER FREEZE-UP<br>ABLE) STOP THE SUPPLY AND EXHAUST FANS, FULLY CLOSE THE OUTSIDE AIR AND EXHAUST AIR DAMPERS, FULLY OPEN THE RECIRCULATION DAMPER,<br>ONTROL VALVE FULLY OPEN TO COIL AND ACTIVATE ALARM.   | Schedules and Controls         Z       Drawn By:<br>JPF1/pgm       Date:<br>11/4/2022         Project No.:       Drawing Number:         17507.02001       FM600 |
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|  | <u>NOT</u><br>IF M<br>LINF  | <u>"E:</u><br>ANUFAC"<br>(AGE IS S   | TURER INST<br>SUPPLIED BE  | AO<br>ETWEEN  |   |  |  |  |  | DISCHA  | RGE  | TS  | 5  |  |
| <complex-block></complex-block>  | THE<br>RET<br>ONE   | OUTSIDE  | E AIR DAMPE<br>DAMPER, TI<br>TOR IS REQU   | ER AND<br>HEN ONLY<br>JIRED   |   |  | DI<br>FZ   |  | S-DO TS  | AIR TEM   | P.   | AI  |  |  |
| <form></form>  |   |  |  |   |   |  |  | SUPPLY   |  | SUI   | PPLY   |   |  |  |
| <image/>   |   |  |  | AIR   |   |  |  | FAN  |  |   | IR   |   |  |  |
| <image/> <text><text><text><list-item><list-item><section-header><form></form></section-header></list-item></list-item></text></text></text>   |   |  |  | FACE A  | AND BY-PASS   | DAMPER -   |  | AO   | TS-SF  | PACE TEMF   | PERATU   | RE SENSOF   | R  |  |
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|  | JNIT VEI  | NTILATOF   | R - STEAM - Y  | VALVE CONTROL W   | /ITH FACE AN  | D BY-PASS - SE   | EQUENCE OF OPI   | ERATIONS:  |  |   |  |   |  |  |
| <text></text>  | (<br>a<br>t   | DCCUPIEI<br>a. Sl<br>b. Th   | D MODE:<br>JPPLY FAN \$<br>HE OUTSIDE  | SHALL RUN CONTIN  | IUOUSLY.<br>L OPEN TO T   | HE POSITION R  | EQUIRED TO MA  | INTAIN THE MIN   | NMUM OUTSI   | DE AIR QU   | ANTITY I   | NDICATED.   |  |  |
| <ul> <li>A long of the first set of the build set of</li></ul>  | C   | C/   | UTSIDE AIR<br>ACE AND BY<br>ASE OF ALAI  | DAMPER SHALL NE<br>-PASS DAMPER SH<br>RM AS DESCRIBED   | EVER BE POSI<br>ALL BE POSIT<br>BELOW.  | TIONED BELOW   | V THIS MINIMUM I<br>L FACE, DAMPER   | SHALL NEVER  | EPT IN CASE (<br>BE POSITION   | OF ALARM.<br>IED TO BY-   | PASS TH  |   | CEPT   |  |
| <ul> <li>And the second based of the second sec</li></ul>   | (   | 1. W<br>SF<br>(A   | HEN THE SH<br>PACE HEATI<br>DJUSTABLE  | ACE TEMPERATUR<br>NG SETPOINT SUB.<br>:).<br>PACE TEMPERATUR  | JECT TO DISC  | HARGE HIGH L   | IMIT OF 110 DEG  | F (ADJUSTABL   | DNTROL VALV<br>E) AND DISCI  | ARGE LC   |  | OF 70 DEG   | i Ain<br>. F   |  |
| <section-header><section-header><section-header><section-header></section-header></section-header></section-header></section-header>   |   | TE<br>SE<br>CI   | EMPERATUR<br>ETPOINT. TH<br>LOSED.   | RE IS LOWER THAN<br>HIS SHALL BE DONE   | THE SPACE 1<br>SUBJECT TO   | TEMPERATURE,<br>D DISCHARGE L  | , THE OUTSIDE A<br>OW LIMIT OF 55  | IR DAMPER SH<br>DEG. F (ADJUS  | ALL MODULA<br>TABLE), AND  | TE OPENTO   |  | AIN THE OC<br>G VALVE FU  | CUP  |  |
| <ul> <li>The Contract of Control of Cont</li></ul>   | U   | JNOCCUF  | PIED MODE:   |   |   |  |  |  |  |   |  |   |  |  |
| A Control of the source o  | a<br>k<br>c   | a. St<br>b. Th<br>c. FA  | HE OUTSIDE   | SHALL BE OFF.<br>AIR DAMPER SHAL<br>PASS DAMPER SH<br>RM AS DESCRIBED   | L BE FULLY C<br>ALL BE POSIT<br>BELOW   | CLOSED.<br>TIONED TO FULI  | L FACE, DAMPER   | SHALL NEVER  | BE POSITION  | IED TO BY-  | PASS TH  | HE COIL EX  | CEPT   |  |
| A Therm took burgers to before basis in the data of book and book  | e   | d. W<br>e. Ol<br>RI  | HERE SPACE<br>N DROP IN SEQUIRED TO  | E HAS FINNED TUB<br>PACE TEMPERATU<br>MAINTAIN REDUCI   | ELOW:<br>E RADIATION<br>IRE BELOW T<br>ED SPACE TE  | , RADIATION SH<br>HE UNOCCUPIE   | HALL PROVIDE FI<br>ED SETPOINT, CY<br>USE 5 DEG, F (AD   | RST STAGE UN<br>CLE THE FAN (<br>JUSTABLE) DE  | OCCUPIED H   | EATING.<br>CONTROL<br>MINIMIZE S  | VALVE F  | ULL OPEN  | AS   |  |
| <section-header></section-header>  | f   | . A<br>M<br>S(   | TIMED LOCA<br>ODE FOR 1 I<br>CHEDULE.  | AL OVERRIDE CONT<br>HOUR (ADJUSTABL   | FROL SHALL A<br>E). AT EXPIRA   | ALLOW AN OCC<br>ATION OF THIS  | UPANT TO OVER<br>TIME, CONTROL   | RIDE THE SCHI<br>OF THE UNIT S   | EDULE AND P<br>HALL AUTOM  | ATICALLY  | UNIT IN  | TO OCCUPI<br>TO THE   | ED   |  |
| A Control of the second process of the   | ١   | VARM-UF  | P MODE:  |   |   |  |  |  |  |   |  |   |  |  |
| A Control of Control Planck Control Planck Control Control Control Planck Control Control Control Control Control Planck   | a<br>t  | a. IF<br>D. TF<br>AL   | HE UNIT SHA<br>HE OUTSIDE<br>LARM AS DE  | ALL START PER AN (<br>AIR DAMPER SHAL<br>SCRIBED BELOW.   | UPTIMUM STA   | ART PROGRAM  | AND BY-PASS DA   | MPER SHALL B   |  |   | FACE E   | XCEPT IN C  | ASE  |  |
| An experimental and experimental exp  | 0   | SAFETIES   | SEPARATE   | FAN SHALL RUN AN  | STAT WITH A   | NUTOMATIC RES  | SET SHALL BE IN  |  | SENSING ELE  | POINT.  |  |   | S THI  |  |
| OCH VALUES OF THE PAY, AS SERVICE UP A CLIPSENT BENEARD BEFORE BEACHES BENEARD EXAMPLES AND AND AND THE PAY.     Junces of the Pay, As Service Data And  | c   | a. A<br>F/<br>Al<br>B`   | ACE OF THE<br>R DAMPER S<br>Y-PASS OF T  | COIL; WHENEVER (<br>SHALL CLOSE 100%<br>THE COIL. AN ALARM  | COIL FREEZE   | -UP CONDITION<br>ALVE SHALL OI<br>O BE ACTIVATE  | NS ARISE (36 DEG<br>PEN 100%, AND T<br>D.  | G. F ADJUSTABL<br>HE FACE AND  | LE THE SUPPL<br>BY-PASS DAM  | Y FAN SH  | ALL STO  | P, THE OUT  | SIDE   |  |
|  | ۲<br>۱۱ /   | ). UF  | PON FAILUR   | Control   | SENSED BY A   | CURRENT SEN  | ISING STATUS S\  | WITCH, GENER   | ATE AN ALAR  | M AT THE  | OWS.   |   |  |  |
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|  |   |  |  |   |   | AO   | TS   |  | IPERATURE S  | ENSOR   |  |   |  |  |
|  |   | LPC —  |  |   |   | L  | .PS  | DI UNOCCUF<br>OVERRII  | PIED<br>DE   |   |  |   |  |  |
| 1. OCCUPIED MODE: <ul> <li>INCOMPANY INFORMATION OF INTERMENTATION IS AT ON RELIAM THE OCCUPIED HEATING SETTIONT, THE CONTROL VALVE SHALL MODULATE TO MAINTAIN CONCUPES SPACE SETTIONT.</li> <li>UNDOCUPIED MADE:             <ul> <li>INVENT THE SPACE TEMPERATURE IS AT ON RELIAM THE LONCOUPED HEATING SETTIONT, THE CONTROL VALVE SHALL MODULATE TO MAINTAIN CONCUPES SPACE SETTIONT.</li> </ul> </li> <li>WAREH WARE THE SPACE TEMPERATURE IS AT ON RELIAM THE LONCOUPED HEATING SETTIONT, THE CONTROL VALVE SHALL MODULATE TO MAINTAIN CONCUPES SPACE SETTIONT.</li> </ul> <li>WAREH WARE THE SPACE TEMPERATURE IS AT ON RELIAM THE LOCATING SETTIONT, THE CONTROL VALVE SHALL MODULATE TO MAINTAIN CONCUPES SPACE SETTIONT.</li> <li>SAFETES:</li> <li>IF DESCRIPTION THE ISSA TO RELIAM THE HEATING SETTIONT BY ISDED, FLADUITABLE), THE CONTROL VALVE SHALL OPEN TO THE ISSA AT ALARM SHALL BE ACTIVATED.</li> <li>IEDETONDALE BUILDING/EQUIPMENT VENTILATION CALCULATION CALCULATION TO THE ISSA AT ALARM SHALL BE ACTIVATED.</li> <li>IEDETONDALE BUILDING/EQUIPMENT VENTILATION CALCULATION RELIAMENT TO THE ISSA AT ALARM SHALL BE ACTIVATED.</li> <li>IEDETONDALE BUILDING/EQUIPMENT VENTILATION CALCULATION RELIAMENT TO THE ISSA AT ALARM SHALL BE ACTIVATED.</li> <li>IEDETONDALE MARK THE HEATING SETTION TO THE ISSA AT ALARM SHALL BE ACTIVATED.</li> <li>IEDETONDALE MARK THE HEATING SETTION TO THE ISSA AT ALL ALARM SHALL DETON TO THE ISSA AT ALL ALARM SHALL BE ACTIVATED.</li> <li>IEDETONDALE MARK THE HEATING SETTION TO THE ISSA AT ALL ALARM SHALL DETON TO THE ISSA AT ALL ALARM SHALL ALARM SHALL ALARM SHALL DETON TO THE ISSA AT ALL ALARM SHALL AL</li>  | FIN   | I TUBE RA  | ADIATION - S   | STEAM - WITH 2-WA   | YCONTROL  | /ALVE - SEQUE  | NCE OF OPERAT  | IONS:  |  |   |  |   |  |  |
|  | 1.  | OCCU   |  | :<br>SPACE TEMPERATI  |   |  |  | G SETPOINT T   |  |   |  |   | 'n   |  |
| • • • • • • • • • • • • • • • • •  | 2.  | unoc   |  | CCUPIED SPACE SE  | ETPOINT.  | below me or  |  |  |  |   |  | DULATE TO   | ,  |  |
|  |   | a.   |  |   |   |  |  |  |  |   |  |   |  |  |
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|  | 3.  | WARM   | MAINTAIN UI<br>1-UP MODE:  | SPACE TEMPERATU   | JRE IS AT OR<br>SETPOINT.   | BELOW THE UN   |  |  |  |   | SHALL I  |   | то   |  |
| In Tube Radiation - Steam - 2-Way Control Valve           In Tube Radiation - Steam Radve           In Tube Con  | 3.<br>4.  | WARM<br>a.   | MAINTAIN UI<br>1-UP MODE:<br>WHEN THE S<br>MAINTAIN O  | SPACE TEMPERATU<br>NOCCUPIED SPACE<br>SPACE TEMPERATU<br>CCUPIED SPACE SE   | JRE IS AT OR<br>SETPOINT.<br>JRE IS AT OR<br>ETPOINT.   | BELOW THE UN   | NOCCUPIED HEA  | TING SETPOINT<br>G SETPOINT, T   | T, THE CONTR   | ROL VALVE<br>. VALVE SH   | SHALL I<br>IALL MO   | MODULATE<br>DULATE TC   | то   |  |
| In the definition of the set of  | 3.<br>4.  | WARM<br>a.   | MAINTAIN UI<br>1-UP MODE:<br>WHEN THE S<br>MAINTAIN O<br>FIES:<br>IF THE SPAC<br>100%. AN AI   | SPACE TEMPERATU<br>NOCCUPIED SPACE<br>SPACE TEMPERATU<br>CCUPIED SPACE SE<br>CE TEMPERATURE I<br>LARM SHALL BE AC   | JRE IS AT OR<br>SETPOINT.<br>JRE IS AT OR<br>ETPOINT.<br>S LESS THAN<br>TIVATED.  | BELOW THE UN<br>BELOW THE OG   | NOCCUPIED HEA<br>CCUPIED HEATIN<br>SETPOINT BY 10  | TING SETPOINT<br>G SETPOINT, T<br>DEG. F (ADJUS  | T, THE CONTROL<br>HE CONTROL   | ROL VALVE<br>. VALVE SH   | SHALL I<br>IALL MO<br>VALVE S  | MODULATE<br>DULATE TC<br>SHALL OPEI   | TO   |  |
| LEPTONDALE BUILDING/EQUIPMENT VENTILATION CALCULATI<br>EQUIPMENT<br>MUMBER TO<br>ROOM<br>ROOM ROOM NAME<br>COLORIDATION<br>ALL ARGE CLIPAN<br>COLORIDATION<br>ALL ARGE CLIPAN<br>CLASSIFICATION<br>ALL ARGE<br>PLATERIALS STURE<br>CLASSIFICATION<br>ALL ARGE<br>PLATERIALS<br>CLASSIFICATION<br>ALL ARGE<br>PLATERIALS<br>CLASSIFICATION<br>ALL ARGE<br>PLATERIALS<br>ALL ARGE<br>CLASSIFICATION<br>ALL ARGE<br>PLATERIALS<br>ALL ARGE<br>CLASSIFICATION<br>ALL ARGE<br>PLATERIALS<br>ALL ARGE<br>ALL ARGE  | 3.<br>4.  | WARM<br>a.   | MAINTAIN UI<br>1-UP MODE:<br>WHEN THE S<br>MAINTAIN OF<br>TIES:<br>IF THE SPAC<br>100%. AN AI  | SPACE TEMPERATU<br>NOCCUPIED SPACE<br>SPACE TEMPERATU<br>CCUPIED SPACE SE<br>CE TEMPERATURE I<br>LARM SHALL BE AC   | JRE IS AT OR<br>SETPOINT.<br>JRE IS AT OR<br>ETPOINT.<br>S LESS THAN<br>TIVATED.  |  | NOCCUPIED HEATIN   | TING SETPOINT<br>G SETPOINT, T<br>DEG. F (ADJUS  | T, THE CONTROL   | ROL VALVE   | SHALL I  | MODULATE<br>DULATE TC   | TO<br>)  |  |
| Image: NUMBER         Image: Number in the image in   | 3.<br>4.<br>8 F   | WARM<br>a.<br>SAFET<br>a.<br>in Tu   | MAINTAIN UI<br>1-UP MODE:<br>WHEN THE S<br>MAINTAIN OF<br>FIES:<br>IF THE SPAC<br>100%. AN AI  | SPACE TEMPERATURE<br>NOCCUPIED SPACE<br>SPACE TEMPERATURE I<br>CCUPIED SPACE SE<br>CE TEMPERATURE I<br>LARM SHALL BE AC   | JRE IS AT OR<br>SETPOINT.<br>JRE IS AT OR<br>ETPOINT.<br>S LESS THAN<br>TIVATED.<br>Eam - 2   | BELOW THE UN<br>BELOW THE OC<br>I THE HEATING  | NOCCUPIED HEATIN<br>CCUPIED HEATIN<br>SETPOINT BY 10   | TING SETPOINT<br>G SETPOINT, T<br>DEG. F (ADJUS  | T, THE CONTROL   | ROL VALVE   | SHALL I  | MODULATE<br>DULATE TC   | TO   |  |
| NUMBER         NUMBER         CLASSFICATION         (SP)         UCUON         CCU         Period         RP         CFMysp         RB           21         GRADE 3 CLMM         Gasrooms lage 9 plus)         852         35         30         10         300         112         11           22         GRADE 5 CLMM         Gasrooms lage 9 plus)         813         35         29         10         240         340         13.2         12           21         COMPUTER LAB         Gasrooms lage 9 plus)         813         35         27         10         270         0.12         9           24         COMPUTER LAB         Gasrooms lage 9 plus)         744         35         27         10         270         0.12         10           25         SP. ED CLMM         Gasrooms lage 9 plus)         102         35         31         10         300         0.12         11           28         GRADE 6 CLMM         Gasrooms lage 9 plus)         102         20         0         0         0         0         0.12         16           29         GRADE 6 CLMM         Gasrooms lage 9 plus)         1782         0         0         0         0         0.12         16   | 3.<br>4.<br>8 F<br>NT   | WARM<br>a.<br>SAFET<br>a.<br>in Tu<br>s  | MAINTAIN UI<br>1-UP MODE:<br>WHEN THE S<br>MAINTAIN OF<br>TIES:<br>IF THE SPACE<br>100%. AN AI<br><b>be Rac</b>  | SPACE TEMPERATURE<br>SPACE TEMPERATURE<br>CCUPIED SPACE SE<br>CE TEMPERATURE I<br>LARM SHALL BE AC<br>Diation - Ste   | JRE IS AT OR<br>SETPOINT.<br>JRE IS AT OR<br>ETPOINT.<br>S LESS THAN<br>TIVATED.<br>Eam - 2   | BELOW THE UN<br>BELOW THE OC<br>I THE HEATING<br>-Way Co<br>BUILDING   | NOCCUPIED HEATIN<br>SETPOINT BY 10<br>DINTROL VAL  | TING SETPOINT<br>G SETPOINT, T<br>DEG. F (ADJUS<br>/ <b>C</b>  | T, THE CONTROL<br>THE CONTROL<br>STABLE), THE  | NOL VALVE   | SHALL I<br>IALL MO<br>VALVE S  | MODULATE<br>DULATE TO<br>SHALL OPEI   | то<br>N<br><b>\</b> ТІ   |  |
| RTU-E-3         California  | 3.<br>4.<br>8 F<br>NT<br>EQUIPMI<br>NUMBF   | WARM<br>a. Y<br>SAFET<br>a. I<br>in Tu<br>s  | MAINTAIN UI<br>1-UP MODE:<br>WHEN THE S<br>MAINTAIN OF<br>TIES:<br>IF THE SPACE<br>100%. AN AI<br><b>be Rac</b><br>ROOM  | SPACE TEMPERATURE<br>SPACE TEMPERATURE<br>SPACE TEMPERATURE I<br>LARM SHALL BE AC<br>Diation - Ste  | JRE IS AT OR<br>SETPOINT.<br>JRE IS AT OR<br>ETPOINT.<br>IS LESS THAN<br>TIVATED.<br>Eam - 2<br>DALE E<br>ZONE ID<br>OCC  | BELOW THE UN<br>BELOW THE OC<br>I THE HEATING<br>-Way Co<br>BUILDING   | NOCCUPIED HEATIN<br>SETPOINT BY 10<br>ONTROL VAIN<br>G/EQUIPI  | TING SETPOINT<br>G SETPOINT, T<br>DEG. F (ADJUS<br>/e<br>MENT V  | T, THE CONTROL<br>THE CONTROL<br>STABLE), THE<br>TENTIL  |   | SHALL I<br>IALL MO<br>VALVE S<br>VALVE S   | MODULATE<br>DULATE TC<br>SHALL OPEI<br>LCULA<br>ATION RATE<br>Ra  | TO<br>N<br>ATI<br>ES   |  |
| 51         UBRARYMEDIA         Media center         2153         25         54         10         540         0.12         28           24         COMPUTER LAB         Classrooms (age 9 plus)         754         35         27         10         270         0.12         0.12         0.12         0.12         0.12         0.12         0.12         0.12         0.12         0.12         0.12         0.12         0.12         0.12         0.12         0.12         0.12         0.12         10         270         0.12.0         0.12         10         200         0.12         11         0.12         11         10         300         0.12         11         10         300         0.12         11         10         300         0.12         11         11         10         10         10         0.0            | 3.<br>4.<br>F<br>NT<br>EQUIPMI<br>NUMBE   | WARM<br>a.<br>SAFET<br>a.<br>in Tu<br>s  | AINTAIN UI<br>I-UP MODE:<br>WHEN THE S<br>MAINTAIN OF<br>TIES:<br>IF THE SPACE<br>100%. AN AI<br><b>be Rac</b><br>ROOM<br>NUMBER<br>21   | SPACE TEMPERATURE<br>SPACE TEMPERATURE<br>CCUPIED SPACE SE<br>CE TEMPERATURE I<br>LARM SHALL BE AC<br>Diation - Ste<br>LEPTONI<br>ROOM NAME   | JRE IS AT OR<br>SETPOINT.<br>JRE IS AT OR<br>ETPOINT.<br>S LESS THAN<br>TIVATED.<br>Eam - 2<br>DALE E<br>ZONE ID<br>CLASS   | BELOW THE UN<br>BELOW THE OC<br>I THE HEATING<br>-Way Co<br>BUILDING<br>SUILDING<br>CUPANCY<br>SIFICATION<br>(age 9 plue)  | NOCCUPIED HEATIN<br>CCUPIED HEATIN<br>SETPOINT BY 10<br>DINTROI VAIN<br>G/EQUIPI<br>Az - AREA<br>(SF)<br>852   | TING SETPOINT<br>G SETPOINT, T<br>DEG. F (ADJUS<br>/C<br>MENT V<br>Pz - ZONE<br>OCCU.<br>#/1000 FT   | T, THE CONTROL<br>THE CONTROL<br>STABLE), THE<br>ENTILA<br>ZONE<br>OCCU.<br>30   | NOL VALVE<br>VALVE SH<br>CONTROL<br>MINIMUM<br>Rp<br>(CFM/<br>Person)   | SHALL I<br>IALL MO<br>VALVE S<br>VALVE S<br>VENTIL/<br>RpP<br>300  | MODULATE<br>DULATE TO<br>SHALL OPEI<br>SHALL OPEI<br>ATION RATE<br>Ra<br>(CFM/SF)   | TO<br>N<br>ATI<br>ES<br>Ra,  |  |
| RTU-E-3         25         SP-EDCLAM         Classrooms (age 9 plus)         743         35         27         10         270         0.12         R0           28         GRADE 5 CLRM         Classrooms (age 9 plus)         930         35         30         10         300         0.12         11           28         GRADE 6 CLRM         Classrooms (age 9 plus)         902         35         33         10         300         0.12         11           29         GRADE 6 CLRM         Classrooms (age 9 plus)         112         0  | 3.<br>4.<br>F<br>NT   | WARM<br>a.<br>SAFET<br>a.<br>in Tu<br>s  | AINTAIN UI A-UP MODE: WHEN THE S MAINTAIN OF TIES: IF THE SPACE TOO%. AN AI BERACE ROOM NUMBER 21 22 23  | SPACE TEMPERATURE<br>SPACE TEMPERATURE<br>SPACE TEMPERATURE I<br>COUPIED SPACE SE<br>CE TEMPERATURE I<br>LARM SHALL BE AC<br>DIATION - Ste<br>UINTON<br>ROOM NAME<br>GRADE 3 CLRM<br>GRADE 5 CLRM   | JRE IS AT OR<br>SETPOINT.<br>JRE IS AT OR<br>ETPOINT.<br>S LESS THAN<br>TIVATED.<br>DALE E<br>ZONE ID<br>CLASS<br>Classrooms<br>Classrooms<br>Classrooms  | BELOW THE UN<br>BELOW THE OC<br>I THE HEATING<br>-Way CC<br>BUILDIN(<br>BUILDIN(<br>SIFICATION<br>(age 9 plus)<br>(age 9 plus)<br>(age 9 plus)<br>(age 9 plus)   | NOCCUPIED HEATIN<br>CCUPIED HEATIN<br>SETPOINT BY 10<br>ONTROI Valv<br>G/EQUIPI<br>Az - AREA<br>(SF)<br>852<br>948<br>813  | TING SETPOINT<br>G SETPOINT, T<br>DEG. F (ADJUS<br>/C<br>MENT V<br>Pz - ZONE<br>OCCU.<br>#/1000 FT<br>35<br>35<br>35<br>35   | T, THE CONTROL<br>THE CONTROL<br>STABLE), THE<br>CONE<br>OCCU.<br>30<br>34<br>29   | CONTROL<br>CONTROL<br>MINIMUM<br>(CFM/<br>Person)<br>10<br>10<br>10   | ALL MO<br>VALVE S<br>VALVE S<br>VENTIL/<br>RpP<br>300<br>340<br>290  | MODULATE<br>DULATE TO<br>SHALL OPEI<br>ATION RATE<br>Ra<br>(CFM/SF)<br>0.12<br>0.12<br>0.12   | TO<br>N<br>TO<br>TO<br>TO<br>TO<br>TO<br>TO<br>TO<br>TO<br>TO<br>TO  |  |
| 24         GNOLE OLENN         Leasardonis (age 9 plus)         922         33         33         10         330         0.12         11           28         GRADE GLRM         Classrooms (age 9 plus)         813         35         29         10         290         0.026         91           203         CORRIDOR         Corridors         1782         0         0         0         0         0.086         51           47         TEACHER PLANING Breakrooms         508         50         28         5         130         0.12         69           RTU-E-2         L112         GYMINASIUM         Multiuse assembly         3782         100         379         7.5         2843         0.08         22           PEOPLE OUTDOOR AIR RATE, Ra = AREA OUTDOOR AIR RATE, W2 = BREATHING ZONE OUTDOOR AIRFLOW, Vot = OUTDOOR AIR INTAKE FLOW,         2         2         1         5         5         0.08         1           PEOPLE OUTDOOR AIR RATE, Ra = AREA OUTDOOR AIR RATE, W2 = BREATHING ZONE OUTDOOR AIRFLOW, Vot = OUTDOOR AIR INTAKE FLOW,         2         3         3         4         5         0         0         0         0         0         0         0         0         0         0         0         0         0         0 <td>3.<br/>4.<br/>F<br/>NT</td> <td>WARM<br/>a.<br/>SAFET<br/>a.<br/>in Tu<br/>s</td> <td>AINTAIN UI<br/>AUP MODE:<br/>WHEN THE S<br/>MAINTAIN OF<br/>TIES:<br/>IF THE SPACE<br/>100%. AN AI<br/><b>be Rac</b><br/>ROOM<br/>NUMBER<br/>21<br/>22<br/>23<br/>51<br/>24</td> <td>SPACE TEMPERATURE<br/>SPACE TEMPERATURE<br/>CCUPIED SPACE SE<br/>CE TEMPERATURE I<br/>LARM SHALL BE AC<br/>Diation - Ste<br/>LEPTONI<br/>ROOM NAME<br/>GRADE 3 CLRM<br/>GRADE 5 CLRM<br/>GRADE 5 CLRM<br/>LIBRARY/MEDIA<br/>COMPUTER LAB</td> <td>JRE IS AT OR<br/>SETPOINT.<br/>JRE IS AT OR<br/>ETPOINT.<br/>S LESS THAN<br/>TIVATED.<br/><b>EAM - 2</b><br/><b>DALE E</b><br/>ZONE ID<br/>CLASS<br/>Classrooms<br/>Classrooms<br/>Media centa<br/>Classrooms</td> <td>BELOW THE UN<br/>BELOW THE OC<br/>I THE HEATING<br/>-Way Cc<br/>BUILDING<br/>CUPANCY<br/>SIFICATION<br/>(age 9 plus)<br/>(age 9 plus)<br/>(age 9 plus)<br/>(age 9 plus)<br/>er<br/>(age 9 plus)<br/>er<br/>(age 9 plus)</td> <td>NOCCUPIED HEATIN<br/>SETPOINT BY 10<br/>DINTROI Valv<br/>G/EQUIPI<br/>Az - AREA<br/>(SF)<br/>852<br/>948<br/>813<br/>2153<br/>754</td> <td>TING SETPOINT<br/>G SETPOINT, T<br/>DEG. F (ADJUS<br/>/C<br/>VENT V<br/>Pz - ZONE<br/>OCCU.<br/>#/1000 FT<br/>35<br/>35<br/>35<br/>35<br/>35<br/>35<br/>35</td> <td>T, THE CONTROL<br/>THE CONTROL<br/>STABLE), THE<br/>ZONE<br/>OCCU.<br/>30<br/>34<br/>29<br/>54<br/>27</td> <td>VALVE SH<br/>CONTROL<br/>CONTROL<br/>MINIMUM<br/>Rp<br/>(CFM/<br/>Person)<br/>10<br/>10<br/>10<br/>10<br/>10<br/>10</td> <td>ALL MO</td> <td>MODULATE<br/>DULATE TC<br/>SHALL OPEI<br/>ATION RATE<br/>Ra<br/>(CFM/SF)<br/>0.12<br/>0.12<br/>0.12<br/>0.12<br/>0.12<br/>0.12<br/>0.12</td> <td>TO<br/>N<br/>TO<br/>N<br/>TI<br/>S<br/>Ra/<br/>10/<br/>11/<br/>98<br/>25/<br/>90</td>  | 3.<br>4.<br>F<br>NT   | WARM<br>a.<br>SAFET<br>a.<br>in Tu<br>s  | AINTAIN UI<br>AUP MODE:<br>WHEN THE S<br>MAINTAIN OF<br>TIES:<br>IF THE SPACE<br>100%. AN AI<br><b>be Rac</b><br>ROOM<br>NUMBER<br>21<br>22<br>23<br>51<br>24  | SPACE TEMPERATURE<br>SPACE TEMPERATURE<br>CCUPIED SPACE SE<br>CE TEMPERATURE I<br>LARM SHALL BE AC<br>Diation - Ste<br>LEPTONI<br>ROOM NAME<br>GRADE 3 CLRM<br>GRADE 5 CLRM<br>GRADE 5 CLRM<br>LIBRARY/MEDIA<br>COMPUTER LAB  | JRE IS AT OR<br>SETPOINT.<br>JRE IS AT OR<br>ETPOINT.<br>S LESS THAN<br>TIVATED.<br><b>EAM - 2</b><br><b>DALE E</b><br>ZONE ID<br>CLASS<br>Classrooms<br>Classrooms<br>Media centa<br>Classrooms  | BELOW THE UN<br>BELOW THE OC<br>I THE HEATING<br>-Way Cc<br>BUILDING<br>CUPANCY<br>SIFICATION<br>(age 9 plus)<br>(age 9 plus)<br>(age 9 plus)<br>(age 9 plus)<br>er<br>(age 9 plus)<br>er<br>(age 9 plus)  | NOCCUPIED HEATIN<br>SETPOINT BY 10<br>DINTROI Valv<br>G/EQUIPI<br>Az - AREA<br>(SF)<br>852<br>948<br>813<br>2153<br>754  | TING SETPOINT<br>G SETPOINT, T<br>DEG. F (ADJUS<br>/C<br>VENT V<br>Pz - ZONE<br>OCCU.<br>#/1000 FT<br>35<br>35<br>35<br>35<br>35<br>35<br>35   | T, THE CONTROL<br>THE CONTROL<br>STABLE), THE<br>ZONE<br>OCCU.<br>30<br>34<br>29<br>54<br>27   | VALVE SH<br>CONTROL<br>CONTROL<br>MINIMUM<br>Rp<br>(CFM/<br>Person)<br>10<br>10<br>10<br>10<br>10<br>10   | ALL MO   | MODULATE<br>DULATE TC<br>SHALL OPEI<br>ATION RATE<br>Ra<br>(CFM/SF)<br>0.12<br>0.12<br>0.12<br>0.12<br>0.12<br>0.12<br>0.12   | TO<br>N<br>TO<br>N<br>TI<br>S<br>Ra/<br>10/<br>11/<br>98<br>25/<br>90  |  |
| 203         CORRIDOR         Corridors         1762         0  | 3.<br>4.<br>F<br>NT<br>EQUIPMI<br>NUMBE   | WARM<br>a.<br>SAFET<br>a.<br>In Tu<br>s  | AINTAIN UI<br>A-UP MODE:<br>WHEN THE S<br>MAINTAIN OF<br>TIES:<br>IF THE SPACE<br>100%. AN AI<br><b>be Rac</b><br>ROOM<br>NUMBER<br>21<br>22<br>23<br>51<br>24<br>25<br>26<br>27   | SPACE TEMPERATURE<br>SPACE TEMPERATURE<br>CCUPIED SPACE SE<br>CE TEMPERATURE I<br>LARM SHALL BE AC<br>Diation - Ste<br>Uiation - Ste<br>CE TEMPERATURE I<br>ARM SHALL BE AC<br>DIATION - Ste<br>CINCLEPTONI<br>ROOM NAME<br>GRADE 3 CLRM<br>GRADE 5 CLRM<br>LIBRARY/MEDIA<br>COMPUTER LAB<br>SP. ED CLRM<br>GRADE 5 CLRM  | JRE IS AT OR<br>SETPOINT.<br>JRE IS AT OR<br>ETPOINT.<br>S LESS THAN<br>TIVATED.<br>DALE E<br>ZONE ID<br>CLASS<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms  | BELOW THE UN<br>BELOW THE OC<br>I THE HEATING<br>-Way CC<br>BUILDINC<br>BUILDINC<br>SIFICATION<br>(age 9 plus)<br>(age 9 plus)   | NOCCUPIED HEATIN<br>CCUPIED HEATIN<br>SETPOINT BY 10<br>DITTOI Valv<br>G/EQUIPI<br>Az - AREA<br>(SF)<br>852<br>948<br>813<br>2153<br>754<br>748<br>830<br>022  | TING SETPOINT, T<br>G SETPOINT, T<br>DEG. F (ADJUS<br>/C<br>VENT V<br>Pz - ZONE<br>OCCU.<br>#/1000 FT<br>35<br>35<br>35<br>35<br>35<br>35<br>35<br>35<br>35<br>35<br>35<br>35<br>35  | T, THE CONTROL<br>THE CONTROL<br>STABLE), THE<br>ZONE<br>OCCU.<br>30<br>34<br>29<br>54<br>27<br>27<br>30<br>22   | CONTROL<br>CONTROL<br>MINIMUM<br>Rp<br>(CFM/<br>Person)<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10   | ALL MO<br>VALVE S<br>VALVE S<br>VENTIL/<br>RpP<br>300<br>340<br>290<br>540<br>270<br>270<br>300<br>270<br>300  | MODULATE<br>DULATE TO<br>SHALL OPEI<br>ATION RATE<br>Ra<br>(CFM/SF)<br>0.12<br>0.12<br>0.12<br>0.12<br>0.12<br>0.12<br>0.12<br>0.12   | TO<br>N<br>N<br>TO<br>N<br>N<br>TO<br>N<br>N<br>N<br>S<br>Ra.<br>100<br>114<br>90<br>90<br>90<br>90  |  |
| L112A         STAGE         Stages, studios         861         70         61         10         610         0.06         52           L112         QYMNASIUM         Multiuse assembly         3782         100         379         7.5         2843         0.06         22           L111         P.E. OFFICE         Office space         162         5         1         5         5         0.06         11           PEOPLE OUTDOOR AIR RATE, Ra= AREA OUTDOOR AIR RATE, Vbz = BREATHING ZONE OUTDOOR AIRFLOW, Zz = AIR DISTRIBUTION CONFIGURATION, Vz         2000 PRIMARY AIRFLOW, Zpz = PRIMARY OUTDOOR AIR RATE, Vbz = SYSTEM PRIMARY AIRFLOW, Vot = OUTDOOR AIR INTAKE, D = OCCUPANT DIVERSITY, Ev = SYSTEM VENTILATION EFFICIENCY           2 UNCORRECTED OUTDOOR AIR INTAKE, D = OCCUPANT DIVERSITY, Ev = SYSTEM VENTILATION EFFICIENCY         D         1           SYSTEM VALUES RTU-E-4         Vps         15450         (UNCORRECTED OA) Vot         44           (CORRECTED OA) Vot         7025         D         1         0         0         1         0         1         0         1         0         1         0         1         0         1         0         1         0         1         1         1         0         1         1         0         1         1         1         0         1  | 3.<br>4.<br>F<br>NT<br>EQUIPMI<br>NUMBE   | WARM<br>a.<br>SAFET<br>a.<br>In Tu<br>s  | AINTAIN UI<br>A-UP MODE:<br>WHEN THE S<br>MAINTAIN OF<br>TIES:<br>IF THE SPACE<br>100%. AN AI<br><b>be Rac</b><br><b>be Rac</b><br><b>be Rac</b><br>21<br>22<br>23<br>51<br>24<br>25<br>26<br>27<br>28<br>29   | SPACE TEMPERATURE<br>SPACE TEMPERATURE<br>CCUPIED SPACE SE<br>CE TEMPERATURE I<br>LARM SHALL BE AC<br>COMPERATURE I<br>ROOM NAME<br>GRADE 3 CLRM<br>GRADE 5 CLRM<br>GRADE 5 CLRM<br>LIBRARY/MEDIA<br>COMPUTER LAB<br>SP. ED CLRM<br>GRADE 5 CLRM<br>GRADE 5 CLRM<br>GRADE 5 CLRM  | JRE IS AT OR<br>SETPOINT.<br>JRE IS AT OR<br>TPOINT.<br>S LESS THAN<br>TIVATED.<br>DALE E<br>ZONE ID<br>CLASS<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms   | BELOW THE UN<br>BELOW THE OC<br>I THE HEATING<br>-Way Cc<br>BUILDINC<br>BUILDINC<br>SIFICATION<br>(age 9 plus)<br>(age 9 plus)   | NOCCUPIED HEATIN<br>CCUPIED HEATIN<br>SETPOINT BY 10<br>DITTOI Valv<br>G/EQUIP<br>Az - AREA<br>(SF)<br>852<br>948<br>813<br>2153<br>754<br>852<br>948<br>813<br>2153<br>754<br>748<br>830<br>932<br>1026<br>813  | TING SETPOINT<br>G SETPOINT, T<br>DEG. F (ADJUS<br>/C<br>VENT V<br>Pz - ZONE<br>OCCU.<br>#/1000 FT<br>35<br>35<br>35<br>35<br>35<br>35<br>35<br>35<br>35<br>35<br>35<br>35<br>35   | T, THE CONTROL<br>THE CONTROL<br>STABLE), THE<br>ZONE<br>OCCU.<br>30<br>34<br>29<br>54<br>27<br>27<br>30<br>33<br>36<br>29   | CONTROL<br>CONTROL<br>MINIMUM<br>Rp<br>(CFM/<br>Person)<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10   | SHALL I<br>IALL MO<br>VALVE S<br>VENTIL/<br>RpP<br>300<br>340<br>290<br>540<br>270<br>300<br>330<br>330<br>330<br>330<br>330   | MODULATE<br>DULATE TO<br>SHALL OPEI<br>ATION RATE<br>Ra<br>(CFM/SF)<br>0.12<br>0.12<br>0.12<br>0.12<br>0.12<br>0.12<br>0.12<br>0.12   | TO<br>N<br>TO<br>N<br>TO<br>N<br>TO<br>N<br>TO<br>N<br>N<br>TO<br>N<br>N<br>N<br>N<br>N<br>N<br>N<br>N<br>N<br>N<br>N<br>N<br>N  |  |
| L111         PE OFFICE         Office space         162         5         1         5         5         0.06         11           ES:         PEOPLE OUTDOOR AIR RATE, Ra = AREA OUTDOOR AIR RATE, Vbz = BREATHING ZONE OUTDOOR AIRFLOW, Vcz = AIR DISTRIBUTION CONFIGURATION, Vps         20NE PRIMARY AIRFLOW, Zpz = PRIMARY OUTDOOR AIR RATE, Vbz = BREATHING ZONE OUTDOOR AIRFLOW, Vcd = OUTDOOR AIR INTAKE FLOW,         =         20NE PRIMARY AIRFLOW, Zpz = PRIMARY OUTDOOR AIR RATE, Vbz = SYSTEM PRIMARY AIRFLOW, Vcd = OUTDOOR AIR INTAKE FLOW,         =         00NCORRECTED OUTDOOR AIR INTAKE, D = OCCUPANT DIVERSITY, Ev = SYSTEM VENTILATION EFFICIENCY         #           UNCORRECTED OUTDOOR AIR INTAKE, D = OCCUPANT DIVERSITY, Ev = SYSTEM VENTILATION EFFICIENCY         # <td>3.<br/>4.<br/>F<br/>NT</td> <td>WARM<br/>a.<br/>SAFET<br/>a.<br/>In Tu<br/>s</td> <td>AINTAIN UI<br/>MAINTAIN UI<br/>MUP MODE:<br/>WHEN THE S<br/>MAINTAIN OF<br/>TIES:<br/>IF THE SPACE<br/>100%. AN AI<br/><b>be Rac</b><br/><b>be Rac</b><br/><b>be Rac</b><br/>21<br/>22<br/>23<br/>51<br/>24<br/>25<br/>26<br/>27<br/>28<br/>29<br/>203<br/>47</td> <td>SPACE TEMPERATURE<br/>SPACE TEMPERATURE<br/>SPACE TEMPERATURE I<br/>CCUPIED SPACE SE<br/>CE TEMPERATURE I<br/>LARM SHALL BE AC<br/>COMPUTER LAB<br/>SP. ED CLRM<br/>GRADE 5 CLRM<br/>GRADE 5 CLRM<br/>GRADE 5 CLRM<br/>GRADE 5 CLRM<br/>GRADE 5 CLRM<br/>GRADE 5 CLRM<br/>GRADE 6 CLRM<br/>GRADE 6 CLRM<br/>GRADE 6 CLRM<br/>GRADE 6 CLRM<br/>GRADE 6 CLRM<br/>GRADE 5 CLRM</td> <td>JRE IS AT OR<br/>SETPOINT.<br/>JRE IS AT OR<br/>TPOINT.<br/>S LESS THAN<br/>TIVATED.<br/>DALE 2<br/>Classrooms<br/>Classrooms<br/>Classrooms<br/>Classrooms<br/>Classrooms<br/>Classrooms<br/>Classrooms<br/>Classrooms<br/>Classrooms<br/>Classrooms<br/>Classrooms<br/>Classrooms<br/>Classrooms<br/>Classrooms<br/>Classrooms<br/>Classrooms<br/>Classrooms<br/>Classrooms<br/>Classrooms<br/>Classrooms<br/>Classrooms<br/>Classrooms<br/>Classrooms<br/>Classrooms<br/>Classrooms<br/>Classrooms<br/>Classrooms<br/>Classrooms</td> <td>BELOW THE UN<br/>BELOW THE OC<br/>I THE HEATING<br/>-Way Cc<br/>SUILDING<br/>CUPANCY<br/>SIFICATION<br/>(age 9 plus)<br/>(age 9 plus)</td> <td>NOCCUPIED HEATIN<br/>CCUPIED HEATIN<br/>SETPOINT BY 10<br/>DITTOL Value<br/>G/EQUIPI<br/>Az - AREA<br/>(SF)<br/>852<br/>948<br/>813<br/>2153<br/>754<br/>852<br/>948<br/>813<br/>2153<br/>754<br/>813<br/>2153<br/>754<br/>813<br/>2153<br/>754<br/>813<br/>1026<br/>813<br/>1026<br/>813</td> <td>TING SETPOINT<br/>G SETPOINT, T<br/>DEG. F (ADJUS<br/>/C<br/>VENT V<br/>Pz - ZONE<br/>OCCU.<br/>#/1000 FT<br/>35<br/>35<br/>35<br/>35<br/>35<br/>35<br/>35<br/>35<br/>35<br/>35<br/>35<br/>35<br/>35</td> <td>T, THE CONTROL<br/>THE CONTROL<br/>STABLE), THE<br/>ZONE<br/>OCCU.<br/>30<br/>34<br/>29<br/>54<br/>27<br/>27<br/>30<br/>34<br/>29<br/>54<br/>27<br/>27<br/>30<br/>33<br/>36<br/>29<br/>0<br/>26</td> <td>CONTROL<br/>CONTROL<br/>MINIMUM<br/>Rp<br/>(CFM/<br/>Person)<br/>10<br/>10<br/>10<br/>10<br/>10<br/>10<br/>10<br/>10<br/>10<br/>10</td> <td>SHALL I<br/>IALL MO<br/>VALVE S<br/>VENTIL/<br/>RpP<br/>300<br/>340<br/>290<br/>540<br/>270<br/>270<br/>300<br/>340<br/>290<br/>540<br/>290<br/>300<br/>340<br/>290<br/>300<br/>300<br/>300<br/>300<br/>300<br/>300<br/>300<br/>300<br/>300<br/>3</td> <td>MODULATE<br/>DULATE TC<br/>SHALL OPEI<br/>ATION RATE<br/>Ra<br/>(CFM/SF)<br/>0.12<br/>0.12<br/>0.12<br/>0.12<br/>0.12<br/>0.12<br/>0.12<br/>0.12</td> <td>TO<br/>N<br/>S<br/>Ra<br/>10<br/>11<br/>90<br/>90<br/>90<br/>10<br/>11<br/>12<br/>90<br/>10<br/>11<br/>12<br/>91<br/>0<br/>10<br/>61</td>  | 3.<br>4.<br>F<br>NT   | WARM<br>a.<br>SAFET<br>a.<br>In Tu<br>s  | AINTAIN UI<br>MAINTAIN UI<br>MUP MODE:<br>WHEN THE S<br>MAINTAIN OF<br>TIES:<br>IF THE SPACE<br>100%. AN AI<br><b>be Rac</b><br><b>be Rac</b><br><b>be Rac</b><br>21<br>22<br>23<br>51<br>24<br>25<br>26<br>27<br>28<br>29<br>203<br>47  | SPACE TEMPERATURE<br>SPACE TEMPERATURE<br>SPACE TEMPERATURE I<br>CCUPIED SPACE SE<br>CE TEMPERATURE I<br>LARM SHALL BE AC<br>COMPUTER LAB<br>SP. ED CLRM<br>GRADE 5 CLRM<br>GRADE 5 CLRM<br>GRADE 5 CLRM<br>GRADE 5 CLRM<br>GRADE 5 CLRM<br>GRADE 5 CLRM<br>GRADE 6 CLRM<br>GRADE 6 CLRM<br>GRADE 6 CLRM<br>GRADE 6 CLRM<br>GRADE 6 CLRM<br>GRADE 5 CLRM  | JRE IS AT OR<br>SETPOINT.<br>JRE IS AT OR<br>TPOINT.<br>S LESS THAN<br>TIVATED.<br>DALE 2<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms   | BELOW THE UN<br>BELOW THE OC<br>I THE HEATING<br>-Way Cc<br>SUILDING<br>CUPANCY<br>SIFICATION<br>(age 9 plus)<br>(age 9 plus)  | NOCCUPIED HEATIN<br>CCUPIED HEATIN<br>SETPOINT BY 10<br>DITTOL Value<br>G/EQUIPI<br>Az - AREA<br>(SF)<br>852<br>948<br>813<br>2153<br>754<br>852<br>948<br>813<br>2153<br>754<br>813<br>2153<br>754<br>813<br>2153<br>754<br>813<br>1026<br>813<br>1026<br>813   | TING SETPOINT<br>G SETPOINT, T<br>DEG. F (ADJUS<br>/C<br>VENT V<br>Pz - ZONE<br>OCCU.<br>#/1000 FT<br>35<br>35<br>35<br>35<br>35<br>35<br>35<br>35<br>35<br>35<br>35<br>35<br>35   | T, THE CONTROL<br>THE CONTROL<br>STABLE), THE<br>ZONE<br>OCCU.<br>30<br>34<br>29<br>54<br>27<br>27<br>30<br>34<br>29<br>54<br>27<br>27<br>30<br>33<br>36<br>29<br>0<br>26  | CONTROL<br>CONTROL<br>MINIMUM<br>Rp<br>(CFM/<br>Person)<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10   | SHALL I<br>IALL MO<br>VALVE S<br>VENTIL/<br>RpP<br>300<br>340<br>290<br>540<br>270<br>270<br>300<br>340<br>290<br>540<br>290<br>300<br>340<br>290<br>300<br>300<br>300<br>300<br>300<br>300<br>300<br>300<br>300<br>3  | MODULATE<br>DULATE TC<br>SHALL OPEI<br>ATION RATE<br>Ra<br>(CFM/SF)<br>0.12<br>0.12<br>0.12<br>0.12<br>0.12<br>0.12<br>0.12<br>0.12   | TO<br>N<br>S<br>Ra<br>10<br>11<br>90<br>90<br>90<br>10<br>11<br>12<br>90<br>10<br>11<br>12<br>91<br>0<br>10<br>61  |  |
| ZONE PRIMARY AIRFLOW, Zpz = PRIMARY OUTDOOR AIR FRACTION, Vps = SYSTEM PRIMARY AIRFLOW, Vot = OUTDOOR AIR INTAKE, D = OCCUPANT DIVERSITY, Ev = SYSTEM VENTILATION EFFICIENCY           SYSTEM VALUES RTU-E-4           SYSTEM VALUES RTU-E-4           CORRECTED OA) Vot         7025         D         1           OA%         45         Ev         0           ADDITIONAL OA%         47             SYSTEM VALUES RTU-E-2           Vps         7900         (UNCORRECTED OA) Vot         375         0           SYSTEM VALUES RTU-E-2         Vps         7900         (UNCORRECTED OA) Vot         37           CORRECTED OA) Vot         4435         D         1           OA%         66         EV           CORRECTED OA) Vot         4435         D         1           OA%         66         EV           Vps         7900         (UNCORRECTED OA) Vot         337           OLICORRECTED OA) Vot         4435         D           COLIPANCY         AREA         COLUPANCY         CON  | 3.<br>4.<br>F<br>NT<br>UIPMI<br>UMBE  | WARM<br>a.<br>SAFET<br>a.<br>in Tu<br>s<br>ENT<br>ER<br>-3   | AINTAIN UN<br>MAINTAIN UN<br>MAINTAIN ON<br>MAINTAIN ON<br>TIES:<br>IF THE SPACE<br>100%. AN AN<br><b>be Rac</b><br><b>be Rac</b><br><b>be Rac</b><br>21<br>22<br>23<br>51<br>24<br>25<br>26<br>27<br>28<br>29<br>203<br>47<br>L112A<br>L112   | SPACE TEMPERATURE<br>SPACE TEMPERATURE<br>SPACE TEMPERATURE I<br>CCUPIED SPACE SE<br>CE TEMPERATURE I<br>LARM SHALL BE AC<br>COMPERATURE I<br>ROOM NAME<br>GRADE 3 CLRM<br>GRADE 3 CLRM<br>GRADE 5 CLRM<br>GRADE 5 CLRM<br>LIBRARY/MEDIA<br>COMPUTER LAB<br>SP. ED CLRM<br>GRADE 5 CLRM   | JRE IS AT OR<br>SETPOINT.<br>JRE IS AT OR<br>TPOINT.<br>S LESS THAN<br>TIVATED.<br>DALE E<br>ZONE ID<br>CLASS<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms   | BELOW THE UN<br>BELOW THE OC<br>I THE HEATING<br>-Way Cc<br>SUILDINC<br>SUILDINC<br>SIFICATION<br>(age 9 plus)<br>(age 9 plus)   | NOCCUPIED HEATIN<br>CCUPIED HEATIN<br>SETPOINT BY 10<br>DITTOI Valv<br>G/EQUIPI<br>Az - AREA<br>(SF)<br>852<br>948<br>813<br>2153<br>754<br>852<br>948<br>813<br>2153<br>754<br>852<br>948<br>813<br>2153<br>754<br>852<br>948<br>813<br>2153<br>754<br>852<br>948<br>813<br>2153<br>754<br>852<br>948<br>813<br>2153<br>754<br>754<br>748<br>830<br>932<br>1026<br>813<br>1762<br>508<br>861<br>3782  | TING SETPOINT, T<br>G SETPOINT, T<br>DEG. F (ADJUS<br>/C<br>VENT V<br>Pz - ZONE<br>OCCU.<br>#/1000 FT<br>35<br>35<br>35<br>35<br>35<br>35<br>35<br>35<br>35<br>35<br>35<br>35<br>35  | T, THE CONTROL<br>THE CONTROL<br>STABLE), THE<br>COCCU.<br>30<br>34<br>29<br>54<br>27<br>27<br>30<br>34<br>29<br>54<br>27<br>27<br>30<br>33<br>36<br>29<br>0<br>33<br>36<br>29<br>0<br>26<br>61<br>379   | CONTROL<br>CONTROL<br>MINIMUM<br>Rp<br>(CFM/<br>Person)<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10   | SHALL I<br>IALL MO<br>VALVE S<br>VALVE S<br>VENTIL/<br>RpP<br>300<br>340<br>290<br>340<br>290<br>340<br>290<br>340<br>290<br>340<br>290<br>340<br>290<br>340<br>290<br>340<br>290<br>300<br>330<br>360<br>290<br>300<br>310<br>300<br>310<br>300<br>310<br>300<br>310<br>300<br>310<br>300<br>310<br>300<br>310<br>300<br>310<br>300<br>310<br>300<br>310<br>31  | MODULATE<br>DULATE TO<br>SHALL OPEI<br>ATION RATE<br>Ra<br>(CFM/SF)<br>0.12<br>0.12<br>0.12<br>0.12<br>0.12<br>0.12<br>0.12<br>0.12   | TO<br>N<br>N<br>TO<br>N<br>N<br>N<br>N<br>N<br>N<br>N<br>N<br>N<br>N<br>N<br>N<br>N<br>N<br>N  |  |
| SYSTEM VALUES RTU-E-4           Vps         15450         (UNCORRECTED OA) Volu         42           (CORRECTED OA) Vot         7025         D         1           OA%         45         EV         0           ADDITIONAL OA%         47   | 3.<br>4.<br>F<br>NT<br>EQUIPMI<br>NUMBE<br>RTU-E<br>RTU-E   | WARM<br>a. 1<br>SAFET<br>a. 1<br>in Tu<br>s  | AINTAIN UN<br>AINTAIN ON<br>AINTAIN ON<br>TIES:<br>IF THE SPACE<br>100%. AN AIN<br><b>be Race</b><br><b>Be Race</b><br><b>Be Race</b><br>21<br>22<br>23<br>51<br>24<br>25<br>26<br>27<br>28<br>29<br>203<br>47<br>L112A<br>L112<br>L111<br>SOR AIR RA  | SPACE TEMPERATURE<br>SPACE TEMPERATURE<br>SPACE TEMPERATURE I<br>COUPIED SPACE SE<br>CE TEMPERATURE I<br>LARM SHALL BE AC<br>COMPERATURE I<br>ROOM NAME<br>GRADE 3 CLRM<br>GRADE 3 CLRM<br>GRADE 5 CLRM<br>GRADE 5 CLRM<br>GRADE 5 CLRM<br>GRADE 5 CLRM<br>GRADE 5 CLRM<br>GRADE 6 CLRM<br>GRADE 5 CLRM<br>GRADE 6 CLRM<br>GRADE 5 CLRM<br>GRADE 5 CLRM<br>GRADE 5 CLRM<br>GRADE 6 CLRM<br>GRADE 6 CLRM<br>GRADE 6 CLRM<br>GRADE 5 CLRM<br>GRADE 6 CLRM   | JRE IS AT OR<br>SETPOINT.<br>JRE IS AT OR<br>TPOINT.<br>S LESS THAN<br>TIVATED.<br>Cass THAN<br>DALE E<br>ZONE ID<br>CCC<br>CLASS<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms   | BELOW THE UN<br>BELOW THE OC<br>I THE HEATING<br>-Way Cc<br>SUILDING<br>CUPANCY<br>SIFICATION<br>(age 9 plus)<br>(age 9  | NOCCUPIED HEATIN<br>CCUPIED HEATIN<br>SETPOINT BY 10<br>DITTOI Val<br>DITTOI Val<br>Az - AREA<br>(SF)<br>Az - AREA<br>(SF)<br>42<br>42<br>42<br>42<br>42<br>42<br>42<br>42<br>42<br>42   | TING SETPOINT, T<br>G SETPOINT, T<br>DEG. F (ADJUS<br>/C<br>VENT V<br>Pz - ZONE<br>OCCU.<br>#/1000 FT<br>35<br>35<br>35<br>35<br>35<br>35<br>35<br>35<br>35<br>35<br>35<br>35<br>35  | T, THE CONTROL<br>THE CONTROL<br>STABLE), THE<br>CONE<br>OCCU.<br>30<br>34<br>29<br>54<br>27<br>27<br>30<br>34<br>29<br>54<br>27<br>27<br>30<br>33<br>36<br>29<br>0<br>33<br>36<br>29<br>0<br>26<br>61<br>379<br>1   | CONTROL<br>CONTROL<br>MINIMUM<br>Rp<br>(CFM/<br>Person)<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10   | SHALL I<br>IALL MO<br>VALVE S<br>VALVE S<br>VENTIL/<br>RpP<br>300<br>340<br>290<br>540<br>270<br>270<br>300<br>340<br>290<br>540<br>290<br>540<br>290<br>300<br>340<br>290<br>540<br>290<br>540<br>290<br>540<br>290<br>540<br>290<br>540<br>270<br>270<br>300<br>300<br>340<br>290<br>540<br>290<br>540<br>270<br>270<br>300<br>340<br>290<br>540<br>270<br>270<br>300<br>300<br>300<br>300<br>340<br>290<br>540<br>270<br>270<br>300<br>300<br>300<br>300<br>300<br>300<br>300<br>300<br>300<br>3  | MODULATE<br>DULATE TO<br>SHALL OPEI<br>ATION RATE<br>Ra<br>(CFM/SF)<br>0.12<br>0.12<br>0.12<br>0.12<br>0.12<br>0.12<br>0.12<br>0.12   | TO<br>N<br>TO<br>N<br>TO<br>N<br>TO<br>S<br>Ra.<br>10:<br>11:<br>98<br>90<br>90<br>100<br>11:<br>12:<br>90<br>90<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>1  |  |
| Vps         15450         (UNCORRECTED OA) Vou         4.4.           (CORRECTED OA) Vot         7025         0         1           0A%         45   | 3.<br>4.<br>F<br>NT<br>EQUIPMI<br>NUMBE<br>RTU-E<br>RTU-E<br>ES:<br>= PEOPI<br>: = ZONI<br>J = UNC  | WARM<br>a.<br>SAFET<br>a.<br>in Tu<br>s<br>ENT<br>R<br>-3  | AINTAIN UN<br>MAINTAIN UN<br>MAINTAIN OF<br>MAINTAIN OF<br>TIES:<br>IF THE SPACE<br>100%. AN AU<br><b>be Rac</b><br><b>be Rac</b><br><b>be Rac</b><br>21<br>22<br>23<br>51<br>24<br>25<br>26<br>27<br>28<br>29<br>203<br>47<br>L112A<br>L112<br>L111<br>COR AIR RAC<br>RY AIRFLOW<br>ED OUTDOO   | SPACE TEMPERATURE<br>SPACE TEMPERATURE<br>CCUPIED SPACE SE<br>CE TEMPERATURE I<br>LARM SHALL BE AC<br>CIATION – Ste<br>CIATION – Ste<br>CIATION – Ste<br>CIATION – Ste<br>CIATION – Ste<br>CIATION – Ste<br>GRADE 3 CLRM<br>GRADE 5 CLRM  | JRE IS AT OR<br>SETPOINT.<br>JRE IS AT OR<br>TPOINT.<br>S LESS THAN<br>TIVATED.<br>Class THAN<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms   | BELOW THE UN<br>BELOW THE OC<br>I THE HEATING<br>-Way Cc<br>SUILDING<br>CUPANCY<br>SIFICATION<br>(age 9 plus)<br>(age 9  | NOCCUPIED HEATIN         SETPOINT BY 10         SETPOINT BY 10         DITTOL Value         Az - AREA<br>(SF)         852         948         813         2153         754         948         813         2153         754         948         813         2153         754         948         813         2153         754         948         813         2153         754         748         830         932         1026         813         1762         508         861         3782         162  | TING SETPOINT, T<br>G SETPOINT, T<br>DEG. F (ADJUS<br>/C<br>VENT V<br>Pz - ZONE<br>OCCU.<br>#/1000 FT<br>35<br>35<br>35<br>35<br>35<br>35<br>35<br>35<br>35<br>35<br>35<br>35<br>35  | T, THE CONTROL<br>THE CONTROL<br>STABLE), THE<br>COCCU.<br>30<br>34<br>29<br>54<br>27<br>27<br>30<br>34<br>29<br>54<br>27<br>27<br>30<br>33<br>36<br>29<br>0<br>26<br>61<br>379<br>1<br>0<br>VV, Ez = AIR I<br>VV, Ez = AIR I  | NALVE SH         VALVE SH         CONTROL         MINIMUM         Rp<br>(CFM/<br>Person)         10         0         5         DISTRIBUT         OOR AIR IN   | SHALL I<br>IALL MO<br>VALVE S<br>VALVE S<br>VENTIL/<br>RpP<br>300<br>340<br>290<br>340<br>290<br>340<br>290<br>340<br>290<br>340<br>290<br>340<br>290<br>340<br>290<br>340<br>290<br>340<br>290<br>340<br>290<br>340<br>290<br>340<br>290<br>340<br>290<br>340<br>290<br>300<br>340<br>290<br>340<br>290<br>300<br>340<br>290<br>300<br>340<br>290<br>300<br>340<br>290<br>540<br>270<br>300<br>340<br>290<br>540<br>270<br>300<br>340<br>290<br>540<br>270<br>300<br>340<br>290<br>540<br>270<br>300<br>340<br>290<br>540<br>270<br>300<br>340<br>290<br>540<br>270<br>300<br>340<br>290<br>540<br>270<br>300<br>340<br>290<br>540<br>270<br>300<br>340<br>290<br>540<br>270<br>300<br>340<br>290<br>300<br>340<br>290<br>540<br>270<br>300<br>340<br>290<br>540<br>270<br>300<br>340<br>290<br>300<br>340<br>290<br>300<br>340<br>290<br>300<br>340<br>290<br>300<br>340<br>290<br>300<br>340<br>290<br>340<br>290<br>300<br>340<br>290<br>300<br>340<br>290<br>300<br>340<br>290<br>300<br>340<br>290<br>300<br>340<br>290<br>300<br>340<br>290<br>300<br>340<br>290<br>300<br>300<br>300<br>300<br>300<br>300<br>300<br>300<br>300<br>3  | MODULATE<br>DULATE TC<br>SHALL OPEI<br>ATION RATE<br>Ra<br>(CFM/SF)<br>0.12<br>0.12<br>0.12<br>0.12<br>0.12<br>0.12<br>0.12<br>0.12   | TO<br>N<br>N<br>TO<br>N<br>N<br>TO<br>N<br>N<br>N<br>N<br>N<br>N<br>N<br>N<br>N<br>N<br>N  |  |
| OA%         45         EV         0           ADDITIONAL OA%         47  | 3.<br>4.<br>F<br>NT<br>QUIPMI<br>NUMBE<br>RTU-E<br>RTU-E  | WARM<br>a.<br>SAFET<br>a.<br>in Tu<br>s<br>ENT<br>R<br>-3  | AINTAIN UN<br>MAINTAIN OF<br>MAINTAIN OF<br>TIES:<br>IF THE SPACE<br>100%. AN AI<br><b>be Rac</b><br><b>be Rac</b><br><b>be Rac</b><br>21<br>22<br>23<br>51<br>24<br>22<br>23<br>51<br>24<br>25<br>26<br>27<br>28<br>29<br>203<br>47<br>L112A<br>L112<br>L111<br>COR AIR RAC<br>RY AIRFLOW<br>ED OUTDOO  | SPACE TEMPERATURE<br>SPACE TEMPERATURE<br>CCUPIED SPACE SE<br>CE TEMPERATURE I<br>LARM SHALL BE AC<br>CIATION – Ste<br>CIATION – STAGE<br>GRADE 5 CLRM<br>GRADE 5 CLRM<br>GRADE 5 CLRM<br>GRADE 5 CLRM<br>GRADE 6 CLRM<br>GRADE 5 CLRM<br>GRADE 5 CLRM<br>GRADE 6 CLRM<br>GRADE 5 CLRM<br>GRADE 5 CLRM<br>GRADE 5 CLRM<br>GRADE 5 CLRM<br>CORRIDOR<br>EACHER PLANNIN<br>STAGE<br>GYMNASIUM<br>P.E. OFFICE  | JRE IS AT OR<br>SETPOINT.<br>JRE IS AT OR<br>TPOINT.<br>S LESS THAN<br>TIVATED.<br>DALE 2<br>ZONE ID<br>CLASS<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms   | BELOW THE UN<br>BELOW THE OC<br>I THE HEATING<br>-Way Cc<br>SUILDINC<br>SUILDINC<br>CUPANCY<br>SIFICATION<br>(age 9 plus)<br>(age 9 plus | NOCCUPIED HEATIN         SETPOINT BY 10         SETPOINT BY 10         Ontrol Val         G/EQUIPI         Az - AREA<br>(SF)         852         948         813         2153         754         748         830         932         1026         813         1762         508         861         3782         162   | TING SETPOINT, T<br>G SETPOINT, T<br>DEG. F (ADJUS<br>/C<br>VENT V<br>Pz - ZONE<br>OCCU.<br>#/1000 FT<br>35<br>35<br>35<br>35<br>35<br>35<br>35<br>35<br>35<br>35<br>35<br>35<br>35  | T, THE CONTROL<br>THE CONTROL<br>TABLE), THE<br>CONE<br>OCCU.<br>30<br>34<br>29<br>54<br>27<br>30<br>34<br>29<br>54<br>27<br>30<br>34<br>29<br>54<br>27<br>30<br>31<br>30<br>34<br>29<br>54<br>27<br>30<br>31<br>30<br>34<br>29<br>54<br>27<br>30<br>31<br>30<br>33<br>36<br>29<br>0<br>26<br>61<br>379<br>1<br>VOL = OUTDON<br>VOL = OUTDON   | NALVE SH         CONTROL         CONTROL         MINIMUM         Rp<br>(CFM/<br>Person)         10         0         10         10         10         10         10         10         10         10   | SHALL I<br>IALL MO<br>VALVE S<br>VENTIL/<br>RpP<br>300<br>340<br>290<br>340<br>290<br>340<br>290<br>340<br>290<br>340<br>290<br>340<br>290<br>340<br>290<br>340<br>290<br>340<br>290<br>340<br>290<br>300<br>340<br>290<br>300<br>340<br>290<br>300<br>300<br>340<br>290<br>540<br>270<br>300<br>340<br>290<br>540<br>270<br>300<br>300<br>340<br>290<br>540<br>270<br>300<br>300<br>300<br>300<br>340<br>290<br>540<br>270<br>300<br>300<br>340<br>290<br>540<br>270<br>300<br>340<br>270<br>300<br>340<br>270<br>300<br>300<br>300<br>300<br>540<br>270<br>300<br>300<br>300<br>300<br>300<br>300<br>300<br>300<br>300<br>3  | MODULATE<br>DULATE TO<br>SHALL OPEI<br>ATION RATE<br>Ra<br>(CFM/SF)<br>0.12<br>0.12<br>0.12<br>0.12<br>0.12<br>0.12<br>0.12<br>0.12   | TO<br>N<br>N<br>TO<br>N<br>N<br>TO<br>N<br>N<br>N<br>N<br>N<br>N<br>N<br>N<br>N  |  |
| SYSTEM VALUES RTU-E-2         Vps<7900       (UNCORRECTED OA) Vou       37         (CORRECTED OA) Vot       4433       D       1         OA%       66       E         OA%       66       E         OA%       66       E         OA%       66       E         PLATTEKILL BUILDING/EQUIPMENT VENTILATION CALCULATION         ADDITIONAL OA%       18         VINUMBER       ROOM NAME       OCCUPANCY<br>CLASSIFICATION       Az - AREA<br>(SF)       P2 - ZONE<br>OCCU, #11000       ZONE<br>COCU, #1000       CONE<br>OCCU, #1000 <th colsp<="" td=""><td>3.<br/>4.<br/>F<br/>NT<br/>EQUIPMI<br/>NUMBE</td><td>WARM<br/>a. 1<br/>SAFET<br/>a. 1<br/>in Tu<br/>s<br/>ENT<br/>ER<br/>-3</td><td>AINTAIN UN<br/>MAINTAIN OF<br/>MAINTAIN OF<br/>TIES:<br/>IF THE SPACE<br/>100%. AN AI<br/><b>be Rac</b><br/><b>be Rac</b><br/><b>be Rac</b><br/>21<br/>22<br/>23<br/>51<br/>24<br/>25<br/>26<br/>27<br/>28<br/>29<br/>203<br/>47<br/>1112A<br/>1112<br/>28<br/>29<br/>203<br/>47<br/>21<br/>22<br/>23<br/>51<br/>24<br/>25<br/>26<br/>27<br/>28<br/>29<br/>203<br/>47<br/>21<br/>22<br/>23<br/>51<br/>24<br/>25<br/>26<br/>27<br/>28<br/>29<br/>203<br/>47<br/>21<br/>20<br/>20<br/>20<br/>20<br/>20<br/>20<br/>20<br/>20<br/>20<br/>20<br/>20<br/>20<br/>20</td><td>SPACE TEMPERATURE<br/>SPACE TEMPERATURE<br/>SPACE TEMPERATURE I<br/>CCUPIED SPACE SE<br/>CE TEMPERATURE I<br/>LARM SHALL BE AC<br/>COMPERATURE I<br/>ROOM NAME<br/>GRADE 3 CLRM<br/>GRADE 3 CLRM<br/>GRADE 5 CLRM<br/>GRADE 5 CLRM<br/>GRADE 5 CLRM<br/>GRADE 5 CLRM<br/>GRADE 5 CLRM<br/>GRADE 6 CLRM<br/>GRADE 6 CLRM<br/>GRADE 6 CLRM<br/>GRADE 6 CLRM<br/>GRADE 6 CLRM<br/>GRADE 6 CLRM<br/>GRADE 5 CLRM<br/>CORRIDOR<br/>TEACHER PLANNIN<br/>STAGE<br/>GYMNASIUM<br/>P.E. OFFICE<br/>TE, Ra = AREA OUTI<br/>7, Zpz = PRIMARY O<br/>R AIR INTAKE, D =</td><td>JRE IS AT OR<br/>SETPOINT.<br/>JRE IS AT OR<br/>TPOINT.<br/>S LESS THAN<br/>TIVATED.<br/>S LESS THAN<br/>TIVATED.<br/>Cass THAN<br/>Classrooms<br/>Classrooms<br/>Classrooms<br/>Classrooms<br/>Classrooms<br/>Classrooms<br/>Classrooms<br/>Classrooms<br/>Classrooms<br/>Classrooms<br/>Classrooms<br/>Classrooms<br/>Classrooms<br/>Classrooms<br/>Classrooms<br/>Classrooms<br/>Classrooms<br/>Classrooms<br/>Classrooms<br/>Classrooms<br/>Classrooms<br/>Classrooms<br/>Classrooms<br/>Classrooms<br/>Classrooms<br/>Classrooms<br/>Classrooms<br/>Classrooms<br/>Classrooms<br/>Classrooms<br/>Classrooms<br/>Classrooms<br/>Classrooms<br/>Classrooms<br/>Classrooms<br/>Classrooms<br/>Classrooms<br/>Classrooms<br/>Classrooms<br/>Classrooms<br/>Classrooms<br/>Classrooms<br/>Classrooms<br/>Classrooms<br/>Classrooms<br/>Classrooms<br/>Classrooms<br/>Classrooms<br/>Classrooms<br/>Classrooms<br/>Classrooms<br/>Classrooms<br/>Classrooms<br/>Classrooms<br/>Classrooms<br/>Classrooms<br/>Classrooms<br/>Classrooms<br/>Classrooms<br/>Classrooms<br/>Classrooms<br/>Classrooms<br/>Classrooms<br/>Classrooms<br/>Classrooms<br/>Classrooms<br/>Classrooms<br/>Classrooms<br/>Classrooms<br/>Classrooms<br/>Classrooms<br/>Classrooms<br/>Classrooms<br/>Classrooms<br/>Classrooms<br/>Classrooms<br/>Classrooms<br/>Classrooms<br/>Classrooms<br/>Classrooms<br/>Classrooms<br/>Classrooms<br/>Classrooms<br/>Classrooms<br/>Classrooms<br/>Classrooms<br/>Classrooms<br/>Classrooms<br/>Classrooms<br/>Classrooms<br/>Classrooms<br/>Classrooms<br/>Classrooms<br/>Classrooms<br/>Classrooms<br/>Classrooms<br/>Classrooms<br/>Classrooms<br/>Classrooms<br/>Classrooms<br/>Classrooms<br/>Classrooms<br/>Classrooms<br/>Classrooms<br/>Classrooms<br/>Classrooms<br/>Classrooms<br/>Classrooms<br/>Classrooms<br/>Classrooms<br/>Classrooms<br/>Classrooms<br/>Classrooms<br/>Classrooms<br/>Classrooms<br/>Classrooms<br/>Classrooms<br/>Classrooms<br/>Classrooms<br/>Classrooms<br/>Classrooms<br/>Classrooms<br/>Classrooms<br/>Classrooms<br/>Classrooms<br/>Classrooms<br/>Classrooms<br/>Classrooms<br/>Classrooms<br/>Classrooms<br/>Classrooms<br/>Classrooms<br/>Classrooms<br/>Classrooms<br/>Classrooms<br/>Classrooms<br/>Classrooms<br/>Classrooms<br/>Classrooms<br/>Classrooms<br/>Classrooms<br/>Classrooms<br/>Classrooms<br/>Classrooms<br/>Classrooms<br/>Classrooms<br/>Classrooms<br/>Classrooms<br/>Classrooms<br/>Classrooms<br/>Classrooms<br/>Classrooms<br/>Classrooms<br/>Classrooms<br/>Classrooms<br/>Classrooms<br/>Classrooms<br/>Classrooms<br/>Classrooms<br/>Classrooms<br/>Classrooms<br/>Classrooms</td><td>BELOW THE UN<br/>BELOW THE OC<br/>I THE HEATING<br/>-Way Cc<br/>SUPANCY<br/>SIFICATION<br/>(age 9 plus)<br/>(age 9 plus)<br/>(ag</td><td>NOCCUPIED HEATIN<br/>SETPOINT BY 10<br/>DITTOL Value<br/>DITTOL VAL</td><td>TING SETPOINT, T<br/>G SETPOINT, T<br/>DEG. 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OFFICE<br>TE, Ra = AREA OUTI<br>7, Zpz = PRIMARY O<br>R AIR INTAKE, D =  | JRE IS AT OR<br>SETPOINT.<br>JRE IS AT OR<br>TPOINT.<br>S LESS THAN<br>TIVATED.<br>S LESS THAN<br>TIVATED.<br>Cass THAN<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms  | BELOW THE UN<br>BELOW THE OC<br>I THE HEATING<br>-Way Cc<br>SUPANCY<br>SIFICATION<br>(age 9 plus)<br>(age 9 plus)<br>(ag | NOCCUPIED HEATIN<br>SETPOINT BY 10<br>DITTOL Value<br>DITTOL VAL | TING SETPOINT, T<br>G SETPOINT, T<br>DEG. 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| EQUIPMENT NUMBER       ROOM NAME       OCCUPANCY CLASSIFICATION       Az - AREA       Pz - ZONE OCCU, #1000 FT       Rp (CFM) Person   | 3.<br>4.<br>F<br>NT<br>QUIPMI<br>NUMBE  | WARM<br>a.<br>SAFET<br>a.<br>in Tu<br>s<br>ENT<br>R<br>-3  | AINTAIN UN<br>MAINTAIN ON<br>MAINTAIN ON<br>MAINTAIN ON<br>TIES:<br>IF THE SPACE<br>100%. AN AN<br><b>be Rac</b><br><b>be Ra</b>              | SPACE TEMPERATURE<br>SPACE TEMPERATURE<br>COUPIED SPACE SE<br>CE TEMPERATURE I<br>LARM SHALL BE AC<br>CIATION – Ste<br>CIATION – STAGE<br>GYMNASIUM<br>P.E. OFFICE<br>TE, Ra = AREA OUT<br>CORDINATION<br>FRAILINTAKE, D =<br>SYSTEM VALUES F  | JRE IS AT OR<br>SETPOINT.<br>JRE IS AT OR<br>TPOINT.<br>S LESS THAN<br>TIVATED.<br>S LESS THAN<br>Class THAN<br>Class Coms<br>Class Class Coms<br>Class Coms<br>Class Class Coms<br>Class C   | BELOW THE UN<br>BELOW THE OC<br>I THE HEATING<br>-Way Cc<br>SUILDING<br>CUPANCY<br>SIFICATION<br>(age 9 plus)<br>(age 9  | NOCCUPIED HEATIN<br>CCUPIED HEATIN<br>SETPOINT BY 10<br>DITTOI Val<br>CAZ - AREA<br>(SF)<br>Az - AREA<br>(SF)<br>4<br>852<br>948<br>813<br>2153<br>754<br>852<br>948<br>813<br>2153<br>754<br>852<br>948<br>813<br>2153<br>754<br>852<br>948<br>813<br>2153<br>754<br>852<br>948<br>813<br>2153<br>754<br>754<br>830<br>932<br>1026<br>813<br>1762<br>508<br>861<br>3782<br>162<br>XTHING ZONE OU<br>SYSTEM VENTIL   | TING SETPOINT, T<br>G SETPOINT, T<br>DEG. F (ADJUS<br>/C<br>VENT V<br>Pz - ZONE<br>OCCU.<br>#/1000 FT<br>35<br>35<br>35<br>35<br>35<br>35<br>35<br>35<br>35<br>35<br>35<br>35<br>35  | T, THE CONTROL<br>HE CONTROL<br>STABLE), THE<br>CONE<br>OCCU.<br>30<br>34<br>29<br>54<br>27<br>27<br>30<br>34<br>29<br>54<br>27<br>27<br>30<br>34<br>29<br>54<br>27<br>27<br>30<br>34<br>29<br>54<br>27<br>27<br>30<br>33<br>36<br>29<br>0<br>26<br>61<br>379<br>1<br>0<br>VV, Ez = AIR I<br>VV, Ez = AIR I  | NALVE SH         VALVE SH         CONTROL         MINIMUM         Rp<br>(CFM/<br>Person)         10   | SHALL I<br>IALL MO<br>VALVE S<br>VALVE S<br>VENTIL/<br>RpP<br>300<br>340<br>290<br>340<br>290<br>340<br>290<br>340<br>290<br>340<br>290<br>340<br>290<br>340<br>290<br>340<br>290<br>340<br>290<br>340<br>290<br>340<br>290<br>340<br>290<br>340<br>290<br>300<br>340<br>290<br>300<br>340<br>290<br>540<br>270<br>300<br>340<br>290<br>540<br>270<br>300<br>340<br>290<br>540<br>270<br>300<br>340<br>290<br>540<br>270<br>300<br>340<br>290<br>540<br>270<br>300<br>340<br>290<br>540<br>270<br>300<br>340<br>290<br>540<br>270<br>300<br>340<br>290<br>540<br>270<br>300<br>340<br>290<br>540<br>270<br>300<br>340<br>290<br>540<br>270<br>300<br>340<br>290<br>540<br>270<br>300<br>340<br>290<br>300<br>340<br>290<br>540<br>270<br>300<br>340<br>290<br>540<br>270<br>300<br>300<br>340<br>290<br>300<br>340<br>290<br>300<br>300<br>300<br>300<br>300<br>300<br>300<br>300<br>300<br>3  | MODULATE<br>DULATE TC<br>SHALL OPEI<br>SHALL OPEI<br>ATION RATE<br>Ra<br>(CFM/SF)<br>0.12<br>0.12<br>0.12<br>0.12<br>0.12<br>0.12<br>0.12<br>0.12   | TO<br>N<br>N<br>TO<br>N<br>N<br>N<br>N<br>TO<br>N<br>N<br>N<br>N<br>N<br>N<br>N<br>N<br>N<br>N   |  |
| UNANG       Sol       EV       U         ADDITIONAL 0A%       18         PLATTEKILL BUILDING/EQUIPMENT VENTILATION CALCULATION         EQUIPMENT       MINIMUM VENTILATION         NUMBER       ROOM NAME       OCCUPANCY<br>CLASSIFICATION       Az - AREA<br>(SF)       PZ - ZONE<br>OCCU. #/1000<br>FT       CONE<br>OCCU. #/1000<br>FT       Rp         RTU-D-1       7       CAFETERIA       Cafeteria/fast-food dining       2221       100       223       7.5       1673       CONTES:         Rp = PEOPLE OUTDOOR AIR RATE, Ra = AREA OUTDOOR AIR RATE, Vbz = BREATHING ZONE OUTDOOR AIRFLOW,       20% Voz = 20% OF TI<br>DCV Voz = GREATER         EZ = AIR DISTRIBUTION CONFIGURATION, Voz = ZONE OUTDOOR AIRFLOW       DCV Voz = GREATER  | 3.<br>4.<br>F<br>NT<br>EQUIPMI<br>NUMBE   | WARM<br>a.<br>SAFET<br>a.<br>in Tu<br>s<br>ENT<br>R<br>-3  | AINTAIN UN<br>MAINTAIN OF<br>MAINTAIN OF<br>TIES:<br>IF THE SPACE<br>100%. AN AI<br><b>be Rac</b><br><b>be Rac</b>           | SPACE TEMPERATURE<br>SPACE TEMPERATURE<br>CCUPIED SPACE SE<br>CE TEMPERATURE I<br>LARM SHALL BE AC<br>CITENPERATURE I<br>COMPERATURE I<br>ROOM NAME<br>GRADE 3 CLRM<br>GRADE 5 CLRM<br>GRADE 5 CLRM<br>GRADE 5 CLRM<br>GRADE 5 CLRM<br>GRADE 5 CLRM<br>GRADE 5 CLRM<br>GRADE 6 CLRM<br>GRADE 6 CLRM<br>GRADE 5 CLRM<br>CORRIDOR<br>EACHER PLANNIN<br>STAGE<br>GYMNASIUM<br>P.E. OFFICE  | JRE IS AT OR<br>SETPOINT.<br>JRE IS AT OR<br>TPOINT.<br>S LESS THAN<br>TIVATED.<br>Cam - 2<br>DALE E<br>ZONE ID<br>CCLASS<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Cla              | BELOW THE UN<br>BELOW THE OC<br>I THE HEATING<br>-Way Cc<br>SUILDINC<br>SUILDINC<br>CUPANCY<br>SIFICATION<br>(age 9 plus)<br>(age 9 plus | NOCCUPIED HEATIN<br>CCUPIED HEATIN<br>SETPOINT BY 10<br>CONTROL VAL<br>Az - AREA<br>(SF)<br>Az - AREA<br>(SF)<br>852<br>948<br>813<br>2153<br>754<br>852<br>948<br>813<br>2153<br>754<br>748<br>830<br>932<br>1026<br>813<br>1762<br>508<br>861<br>3782<br>1026<br>813<br>1762<br>508<br>861<br>3782<br>1026<br>813<br>1762<br>508<br>861<br>3782<br>1026<br>813<br>1762<br>508<br>861<br>3782<br>1026<br>813<br>1762<br>508<br>861<br>3782<br>1026<br>813<br>1762<br>508<br>861<br>3782<br>1026<br>813<br>1762<br>508<br>861<br>3782<br>1026<br>813<br>1762<br>508<br>861<br>3782<br>1026<br>813<br>1762<br>508<br>861<br>3782<br>1026<br>813<br>1762<br>508<br>801<br>813<br>1762<br>508<br>861<br>3782<br>1026<br>813<br>1762<br>508<br>861<br>3782<br>1026<br>813<br>1762<br>508<br>861<br>3782<br>1026<br>813<br>1762<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80   | TING SETPOINT, T<br>G SETPOINT, T<br>DEG. F (ADJUS<br>/C<br>VENT V<br>Pz - ZONE<br>OCCU.<br>#/1000 FT<br>35<br>35<br>35<br>35<br>35<br>35<br>35<br>35<br>35<br>35<br>35<br>35<br>35  | T, THE CONTROL<br>THE CONTROL<br>TABLE), THE<br>TABLE), THE<br>CONE<br>OCCU.<br>30<br>34<br>29<br>54<br>27<br>27<br>30<br>34<br>29<br>54<br>27<br>27<br>30<br>34<br>29<br>54<br>27<br>27<br>30<br>31<br>30<br>34<br>29<br>0<br>26<br>61<br>379<br>1<br>VV, Ez = AIR I<br>VOT = OUTDO<br>VCY<br>15450<br>7025<br>47<br>47   | NALVE SH         VALVE SH         CONTROL         MINIMUM         Rp         (CFM/         Person)         10 <t< td=""><td>SHALL I<br/>IALL MO<br/>VALVE S<br/>VENTIL/<br/>RpP<br/>300<br/>340<br/>290<br/>540<br/>270<br/>300<br/>340<br/>290<br/>540<br/>270<br/>300<br/>340<br/>290<br/>610<br/>270<br/>300<br/>340<br/>290<br/>540<br/>270<br/>300<br/>340<br/>290<br/>540<br/>270<br/>300<br/>540<br/>270<br/>300<br/>340<br/>290<br/>540<br/>270<br/>300<br/>340<br/>290<br/>540<br/>270<br/>300<br/>300<br/>540<br/>270<br/>300<br/>540<br/>270<br/>300<br/>540<br/>270<br/>300<br/>540<br/>270<br/>300<br/>540<br/>270<br/>300<br/>540<br/>270<br/>300<br/>540<br/>270<br/>300<br/>540<br/>270<br/>300<br/>540<br/>270<br/>300<br/>540<br/>270<br/>300<br/>540<br/>270<br/>300<br/>540<br/>270<br/>300<br/>540<br/>270<br/>300<br/>540<br/>270<br/>300<br/>540<br/>270<br/>300<br/>540<br/>270<br/>300<br/>300<br/>540<br/>270<br/>300<br/>540<br/>270<br/>300<br/>540<br/>270<br/>300<br/>540<br/>270<br/>300<br/>300<br/>300<br/>540<br/>270<br/>300<br/>300<br/>300<br/>300<br/>300<br/>300<br/>300<br/>300<br/>300<br/>3</td><td>MODULATE<br/>DULATE TO<br/>SHALL OPEI<br/>ATION RATE<br/>Ra<br/>(CFM/SF)<br/>0.12<br/>0.12<br/>0.12<br/>0.12<br/>0.12<br/>0.12<br/>0.12<br/>0.12</td><td>TO<br/>N<br/>N<br/>I<br/>I<br/>I<br/>I<br/>I<br/>I<br/>I<br/>I<br/>I<br/>I<br/>I<br/>I<br/>I<br/>I<br/>I<br/>I<br/>I</td></t<> | SHALL I<br>IALL MO<br>VALVE S<br>VENTIL/<br>RpP<br>300<br>340<br>290<br>540<br>270<br>300<br>340<br>290<br>540<br>270<br>300<br>340<br>290<br>610<br>270<br>300<br>340<br>290<br>540<br>270<br>300<br>340<br>290<br>540<br>270<br>300<br>540<br>270<br>300<br>340<br>290<br>540<br>270<br>300<br>340<br>290<br>540<br>270<br>300<br>300<br>540<br>270<br>300<br>540<br>270<br>300<br>540<br>270<br>300<br>540<br>270<br>300<br>540<br>270<br>300<br>540<br>270<br>300<br>540<br>270<br>300<br>540<br>270<br>300<br>540<br>270<br>300<br>540<br>270<br>300<br>540<br>270<br>300<br>540<br>270<br>300<br>540<br>270<br>300<br>540<br>270<br>300<br>540<br>270<br>300<br>540<br>270<br>300<br>300<br>540<br>270<br>300<br>540<br>270<br>300<br>540<br>270<br>300<br>540<br>270<br>300<br>300<br>300<br>540<br>270<br>300<br>300<br>300<br>300<br>300<br>300<br>300<br>300<br>300<br>3   | MODULATE<br>DULATE TO<br>SHALL OPEI<br>ATION RATE<br>Ra<br>(CFM/SF)<br>0.12<br>0.12<br>0.12<br>0.12<br>0.12<br>0.12<br>0.12<br>0.12   | TO<br>N<br>N<br>I<br>I<br>I<br>I<br>I<br>I<br>I<br>I<br>I<br>I<br>I<br>I<br>I<br>I<br>I<br>I<br>I  |  |
| PLATTEKILL BUILDING/EQUIPMENT VENTILATION CALCULATION         EQUIPMENT       ZONE       ZONE       MINIMUM EX       MINIMUM EX       ROOM NAME       OCCUPANCY<br>CLASSIFICATION       Az - AREA<br>(SF)       Pz - ZONE<br>OCCU. #11000<br>FT       ZONE<br>OCCU. #1000<br>FT       Rpp<br>(CFM/<br>Person)       RpP       (CF         RTU-D-1       7       CAFETERIA       Cafeteria/fast-food dining       2221       100       223       7.5       1673       0         NOTES:       Rp = PEOPLE OUTDOOR AIR RATE, Ra = AREA OUTDOOR AIR RATE, Vbz = BREATHING ZONE OUTDOOR AIRFLOW,       20% Voz = 20% OF THE         Ez = AIR DISTRIBUTION CONFIGURATION, Voz = ZONE OUTDOOR AIRFLOW       DCV Voz = GREATER       20% Voz = 20% OF THE  | 3.<br>4.<br>F<br>NT<br>EQUIPMI<br>NUMBE<br>RTU-E:<br>TES:<br>= PEOPI<br>z = ZONI<br>u = UNC   | WARM<br>a.<br>SAFET<br>a.<br>in Tu<br>s<br>ENT<br>ER<br>-3   | ALTAIN UN<br>MAINTAIN UN<br>MAINTAIN OF<br>TIES:<br>IF THE SPACE<br>100%. AN AN<br><b>DE Rac</b><br><b>BE Rac</b><br><b>BE Rac</b><br>21<br>22<br>23<br>51<br>24<br>25<br>26<br>27<br>28<br>29<br>203<br>47<br>L112A<br>L112<br>L111<br>DOR AIR RAC<br>RY AIRFLOW<br>D OUTDOO  | SPACE TEMPERATURE<br>SPACE TEMPERATURE<br>SPACE TEMPERATURE I<br>COUPIED SPACE SE<br>CE TEMPERATURE I<br>LARM SHALL BE AC<br>COMPERATURE I<br>ROOM NAME<br>GRADE 3 CLRM<br>GRADE 5 CLRM<br>GRADE 5 CLRM<br>GRADE 5 CLRM<br>GRADE 5 CLRM<br>GRADE 5 CLRM<br>GRADE 6 CLRM<br>GRADE 6 CLRM<br>GRADE 6 CLRM<br>GRADE 6 CLRM<br>GRADE 6 CLRM<br>GRADE 6 CLRM<br>GRADE 5 CLRM<br>CORRIDOR<br>TEACHER PLANNIN<br>STAGE<br>GYMNASIUM<br>P.E. OFFICE<br>TE, Ra = AREA OUTI<br>7, Zpz = PRIMARY O<br>R AIR INTAKE, D =<br>SYSTEM VALUES F   | JRE IS AT OR<br>SETPOINT.<br>JRE IS AT OR<br>TPOINT.<br>S LESS THAN<br>TIVATED.<br>Cass THAN<br>DALE E<br>ZONE ID<br>CCC<br>CLASS<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classro<br>Classrooms<br>Classrooms<br>Classrooms<br>Cl          | BELOW THE UN<br>BELOW THE OC<br>I THE HEATING<br>-Way Cc<br>SUPANCY<br>SIFICATION<br>(age 9 plus)<br>(age 9 plus)<br>(ag | NOCCUPIED HEATIN         CCUPIED HEATIN         SETPOINT BY 10         DITTOL Val         DITTOL Val         Az - AREA<br>(SF)         852         948         813         2153         754         948         813         2153         754         932         1026         813         2153         754         932         1026         813         1762         508         861         3782         162         XTHING ZONE OUT         SYSTEM VENTIL         CORR         AZ         SYSTEM VENTIL  | TING SETPOINT, T<br>G SETPOINT, T<br>DEG. F (ADJUS<br>/C<br>VENT V<br>Pz - ZONE<br>OCCU.<br>#/1000 FT<br>35<br>35<br>35<br>35<br>35<br>35<br>35<br>35<br>35<br>35<br>35<br>35<br>35  | T, THE CONTROL<br>HE CONTROL<br>STABLE), THE<br>CONE<br>OCCU.<br>30<br>34<br>29<br>54<br>27<br>27<br>30<br>34<br>29<br>54<br>27<br>27<br>30<br>30<br>34<br>29<br>54<br>27<br>27<br>30<br>31<br>30<br>34<br>29<br>54<br>27<br>27<br>30<br>31<br>30<br>33<br>36<br>29<br>0<br>26<br>61<br>379<br>1<br>Vot = OUTD<br>Vot  | CONTROL<br>CONTROL<br>CONTROL<br>MINIMUM<br>Rp<br>(CFM/<br>Person)<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10  | SHALL MO<br>VALVE S<br>VALVE S<br>VALVE S<br>VENTIL/<br>RpP<br>300<br>340<br>290<br>540<br>270<br>300<br>340<br>290<br>540<br>270<br>300<br>340<br>290<br>0<br>340<br>290<br>540<br>290<br>300<br>340<br>290<br>540<br>270<br>300<br>340<br>290<br>540<br>270<br>300<br>340<br>290<br>540<br>270<br>300<br>340<br>290<br>540<br>270<br>300<br>340<br>290<br>540<br>270<br>300<br>340<br>290<br>540<br>270<br>270<br>300<br>340<br>290<br>540<br>270<br>270<br>300<br>340<br>290<br>540<br>270<br>270<br>300<br>340<br>290<br>540<br>270<br>270<br>300<br>340<br>290<br>540<br>270<br>300<br>300<br>340<br>290<br>540<br>270<br>270<br>300<br>300<br>300<br>300<br>300<br>300<br>300<br>300<br>300<br>3   | MODULATE<br>DULATE TO<br>SHALL OPEI<br>SHALL OPEI<br>ATION RATE<br>Ra<br>(CFM/SF)<br>0.12<br>0.12<br>0.12<br>0.12<br>0.12<br>0.12<br>0.12<br>0.12   | TO<br>N<br>TO<br>N<br>TO<br>N<br>TO<br>N<br>TO<br>N<br>TO<br>N<br>TO<br>N<br>N<br>TO<br>N<br>TO<br>N<br>TO<br>N<br>N<br>TO<br>N<br>TO<br>N<br>TO<br>N<br>TO<br>N<br>N<br>TO<br>N<br>TO<br>N<br>N<br>N<br>N<br>N<br>N<br>N<br>N<br>N<br>N<br>N<br>N<br>N  |  |
| $\frac{1}{10000000000000000000000000000000000$   | 3.<br>4.<br>F<br>NT<br>EQUIPMI<br>NUMBE<br>RTU-E<br>RTU-E<br>TES:<br>= PEOPI<br>z = ZONI<br>u = UNC   | WARM<br>a.<br>SAFET<br>a.<br>in Tu<br>s<br>ENT<br>R<br>-3  | ALTAIN UN<br>MAINTAIN OF<br>MAINTAIN OF<br>TIES:<br>IF THE SPACE<br>100%. AN AL<br><b>be Rac</b><br><b>be Rac</b><br><b>be Rac</b><br><b>be Rac</b><br>21<br>22<br>23<br>51<br>24<br>25<br>26<br>27<br>28<br>29<br>203<br>47<br>L112A<br>L112<br>L111<br>COR AIR RAC<br>RY AIRFLOW<br>DOUTDOO  | SPACE TEMPERATURE<br>SPACE TEMPERATURE<br>SPACE TEMPERATURE I<br>COUPIED SPACE SE<br>CE TEMPERATURE I<br>LARM SHALL BE AC<br>COMPERATURE I<br>GRADE 3 CLRM<br>GRADE 5 CLRM<br>GRADE 5 CLRM<br>GRADE 5 CLRM<br>GRADE 5 CLRM<br>GRADE 5 CLRM<br>GRADE 5 CLRM<br>GRADE 6 CLRM<br>CORRIDOR<br>TEACHER PLANNIN<br>STAGE<br>GYMNASIUM<br>P.E. OFFICE<br>TE, Ra = AREA OUT<br>7, Zpz = PRIMARY O<br>R AIR INTAKE, D =<br>SYSTEM VALUES F   | JRE IS AT OR<br>SETPOINT.<br>JRE IS AT OR<br>TPOINT.<br>S LESS THAN<br>TIVATED.<br>Cass Than<br>Cass of the space<br>Class  | BELOW THE UN<br>BELOW THE OC<br>I THE HEATING<br>-Way Cc<br>SUILDING<br>CUPANCY<br>SIFICATION<br>(age 9 plus)<br>(age 9  | NOCCUPIED HEATIN<br>CCUPIED HEATIN<br>SETPOINT BY 10<br>DITTOI Val<br>DITTOI Val<br>Az - AREA<br>(SF)<br>4<br>4<br>2<br>4<br>2<br>1<br>3<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1  | TING SETPOINT, T<br>G SETPOINT, T<br>DEG. F (ADJUS<br>/C<br>VENT V<br>Pz - ZONE<br>OCCU.<br>#/1000 FT<br>35<br>35<br>35<br>35<br>35<br>35<br>35<br>35<br>35<br>35<br>35<br>35<br>35  | T, THE CONTROL<br>TABLE), THE<br>TABLE), THE<br>TABLE), THE<br>CONE<br>OCCU.<br>30<br>34<br>29<br>54<br>27<br>27<br>30<br>34<br>29<br>54<br>27<br>27<br>30<br>34<br>29<br>54<br>27<br>27<br>30<br>32<br>30<br>34<br>29<br>54<br>27<br>27<br>30<br>33<br>36<br>29<br>0<br>26<br>61<br>379<br>1<br>VV, Ez = AIR I<br>VV, Ez = AIR I<br>VV, Ez = AIR I<br>VOT = OUTD<br>VCY<br>15450<br>7005<br>45<br>47<br>47<br>15450<br>7900<br>4435<br>56<br>18   | NALVE SH         VALVE SH         CONTROL         MINIMUM         Rp<br>(CFM/<br>Person)         10   | SHALL I<br>IALL MO<br>VALVE S<br>VALVE S<br>VENTIL/<br>RpP<br>300<br>340<br>290<br>340<br>290<br>340<br>290<br>340<br>290<br>340<br>290<br>340<br>290<br>340<br>290<br>300<br>340<br>290<br>300<br>330<br>360<br>290<br>300<br>300<br>300<br>300<br>300<br>300<br>300<br>300<br>300<br>3   | MODULATE<br>DULATE TC<br>SHALL OPEI<br>SHALL OPEI<br>ATION RATE<br>Ra<br>(CFM/SF)<br>0.12<br>0.12<br>0.12<br>0.12<br>0.12<br>0.12<br>0.12<br>0.12   | TO<br>N<br>N<br>TO<br>N<br>N<br>N<br>TO<br>N<br>N<br>TO<br>N<br>N<br>N<br>N<br>N<br>N<br>N   |  |
| NUMBERROOM NAMECLASSIFICATIONNUMBEROCCU. #/1000<br>FTOCCU.CFM/<br>Person)RpP(CFM/<br>Person)RpPRTU-D-17CAFETERIACafeteria/fast-food dining22211002237.51673(CFM/<br>Person)(CFM/<br>Person)(CFM/<br>Person)(CFM/<br>Person)(CFM/<br>Person)(CFM/<br>Person)(CFM/<br>Person)(CFM/<br>Person)(CFM/<br>Person)(CFM/<br>Person)(CFM/<br>Person)(CFM/<br>Person)(CFM/<br>Person)(CFM/<br>Person)(CFM/<br>Person)(CFM/<br>Person)(CFM/<br>Person)(CFM/<br>Person)(CFM/<br>Person)(CFM/<br>Person)(CFM/<br>Person)(CFM/<br>Person)(CFM/<br>Person)(CFM/<br>Person)(CFM/<br>Person)(CFM/<br>Person)(CFM/<br>Person)(CFM/<br>Person)(CFM/<br>Person)(CFM/<br>Person)(CFM/<br>Person)(CFM/<br>Person)(CFM/<br>Person)(CFM/<br>Person)(CFM/<br>Person)(CFM/<br>Person)(CFM/<br>Person)(CFM/<br>Person)(CFM/<br>Person)(CFM/<br>Person)(CFM/<br>Person)(CFM/<br>Person)(CFM/<br>Person)(CFM/<br>Person)(CFM/<br>Person)(CFM/<br>Person)(CFM/<br>Person)(CFM/<br>Person)(CFM/<br>Person)(CFM/<br>Person)(CFM/<br>Person)(CFM/<br>Person)(CFM/<br>Person)(CFM/<br>Person)(CFM/<br>Person)(CFM/<br>Person)(CFM/<br>Person)(CFM/<br>Person)(CFM/<br>Person)(CFM/<br>Person)(CFM/<br>Person)(CFM/<br>Person)(CFM/<br>Person)(CFM/<br>Person)(CFM/<br>Person)(C  | 3.<br>4.<br>F<br>NT<br>EQUIPMI<br>NUMBE<br>RTU-E<br>RTU-E<br>TES:<br>= PEOPI<br>z = ZONI<br>u = UNC   | WARM<br>a.<br>SAFET<br>a.<br>in Tu<br>s<br>ENT<br>ER<br>-3   | MAINTAIN UK         MAINTAIN OF         MAINTAIN OF         WHEN THE S         MAINTAIN OF         TIES:         IF THE SPACE         100%. AN AI <b>be Rac</b> ROOM         NUMBER         21         22         23         51         24         25         26         27         28         29         203         47         L112         L111         COR AIR RATE         RY AIRFLOW         DOUTDOO   | SPACE TEMPERATURE<br>SPACE TEMPERATURE<br>COUPIED SPACE SE<br>CE TEMPERATURE I<br>LARM SHALL BE AC<br>Diation - Ste<br>Ciation - Ste                                  | JRE IS AT OR<br>SETPOINT.<br>JRE IS AT OR<br>TPOINT.<br>S LESS THAN<br>TIVATED.<br>Cass THAN<br>COCCCLASS<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Cla                | BELOW THE UN<br>BELOW THE OC<br>I THE HEATING<br>-Way Cc<br>SUPANCY<br>SIFICATION<br>(age 9 plus)<br>(age 9 plus)<br>(ag | NOCCUPIED HEATIN<br>CCUPIED HEATIN<br>SETPOINT BY 10<br>DITTOI Val<br>Az - AREA<br>(SF)<br>Az - AREA<br>(SF)<br>Az - AREA<br>(SF)<br>Az - AREA<br>(SF)<br>4<br>4<br>4<br>4<br>4<br>5<br>4<br>4<br>5<br>4<br>4<br>5<br>4<br>4<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5  | G SETPOINT, T         DEG. F (ADJUS         /C         VENT V         Pz - ZONE         OCCU.         #/1000 FT         35   | T, THE CONTROL<br>HE CONTROL<br>STABLE), THE<br>CONE<br>OCCU.<br>30<br>34<br>29<br>54<br>27<br>27<br>30<br>34<br>29<br>54<br>27<br>27<br>30<br>34<br>29<br>54<br>27<br>27<br>30<br>31<br>30<br>34<br>29<br>54<br>27<br>27<br>30<br>31<br>30<br>33<br>36<br>29<br>0<br>26<br>61<br>379<br>1<br>Vot = OUTD<br>Vot = OUTD<br>Vot<br>15450<br>7025<br>47<br>7900<br>4435<br>56<br>18<br>NTILAT   | CONTROL<br>CONTROL<br>CONTROL<br>CONTROL<br>MINIMUM<br>Rp<br>(CFM/<br>Person)<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10   | SHALL MO<br>VALVE S<br>VALVE S<br>VALVE S<br>VENTIL/<br>RpP<br>300<br>340<br>290<br>340<br>290<br>340<br>290<br>340<br>290<br>340<br>290<br>340<br>290<br>340<br>290<br>300<br>340<br>290<br>300<br>340<br>290<br>300<br>340<br>290<br>300<br>340<br>290<br>540<br>270<br>300<br>340<br>290<br>540<br>270<br>300<br>300<br>340<br>290<br>540<br>270<br>270<br>300<br>300<br>300<br>340<br>290<br>540<br>270<br>270<br>300<br>300<br>300<br>300<br>300<br>300<br>300<br>300<br>300<br>3   | MODULATE<br>DULATE TO<br>SHALL OPEI<br>SHALL OPEI<br>CULA<br>ATION RATE<br>Ra<br>(CFM/SF)<br>0.12<br>0.12<br>0.12<br>0.12<br>0.12<br>0.12<br>0.12<br>0.12   | TO<br>N<br>N<br>TO<br>N<br>N<br>TI<br>S<br>Ra.<br>10:<br>11:<br>98<br>90<br>90<br>100<br>11:<br>12:<br>90<br>90<br>100<br>11:<br>12:<br>90<br>90<br>100<br>11:<br>12:<br>90<br>90<br>100<br>11:<br>12:<br>90<br>90<br>90<br>100<br>10:<br>10:<br>10:<br>10:<br>10:<br>10:<br>10:<br>10:<br>10  |  |
| RTU-D-17CAFETERIACafeteria/fast-food dining22211002237.516731673NOTES:Rp = PEOPLE OUTDOOR AIR RATE, Ra = AREA OUTDOOR AIR RATE, Vbz = BREATHING ZONE OUTDOOR AIRFLOW,20% Voz = 20% OF THEz = AIR DISTRIBUTION CONFIGURATION, Voz = ZONE OUTDOOR AIRFLOWDCV Voz = GREATER   | 3.<br>4.<br>F<br>NT<br>EQUIPMI<br>NUMBE<br>RTU-E<br>RTU-E<br>TES:<br>= PEOPI<br>z = ZONI<br>u = UNC   | WARM<br>a.<br>SAFET<br>a.<br>in Tu<br>s<br>ENT<br>R<br>-3<br>-3<br>-3<br>-2<br>LE OUTDO<br>PMENT<br>PMENT              | ALLITAIN UN<br>MAINTAIN ON<br>MAINTAIN ON<br>MAINTAIN ON<br>TIES:<br>IF THE SPACE<br>100%. AN ALL<br><b>be Rac</b><br><b>be </b>              | SPACE TEMPERATURE<br>SPACE TEMPERATURE<br>COUPIED SPACE SE<br>CE TEMPERATURE I<br>LARM SHALL BE AC<br>COMPERATOR<br>GRADE 3 CLRM<br>GRADE 3 CLRM<br>GRADE 5 CLRM<br>GRADE 5 CLRM<br>GRADE 5 CLRM<br>GRADE 5 CLRM<br>GRADE 5 CLRM<br>GRADE 6 CLRM<br>GRADE 6 CLRM<br>GRADE 6 CLRM<br>GRADE 5 CLRM<br>GRADE 5 CLRM<br>CORRIDOR<br>EACHER PLANNIN<br>STAGE<br>GYMNASIUM<br>P.E. OFFICE<br>TE, Ra = AREA OUT<br>7, Zpz = PRIMARY O<br>R AIR INTAKE, D =<br>SYSTEM VALUES F<br>SYSTEM VALUES F   | JRE IS AT OR<br>SETPOINT.<br>JRE IS AT OR<br>TPOINT.<br>S LESS THAN<br>TIVATED.<br>S LESS THAN<br>Class THAN<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS | BELOW THE UN<br>BELOW THE OC<br>I THE HEATING<br>-VVay Cc<br>SUPANCY<br>SIFICATION<br>(age 9 plus)<br>(age 9 plus)<br>(a | NOCCUPIED HEATIN<br>CCUPIED HEATIN<br>SETPOINT BY 10<br>DITTOI Val<br>CAZ - AREA<br>(SF)<br>Az - AREA<br>(SF)<br>4<br>4<br>2<br>4<br>2<br>4<br>2<br>4<br>3<br>3<br>2<br>1<br>3<br>4<br>3<br>1<br>3<br>1<br>3<br>1<br>3<br>1<br>3<br>1<br>3<br>1<br>3<br>1<br>3<br>1<br>3<br>1<br>3<br>1<br>3<br>1<br>3<br>1<br>3<br>1<br>3<br>1<br>3<br>1<br>3<br>1<br>3<br>1<br>3<br>1<br>3<br>1<br>3<br>1<br>3<br>1<br>3<br>1<br>3<br>1<br>3<br>1<br>3<br>1<br>3<br>1<br>3<br>1<br>3<br>1<br>3<br>1<br>3<br>1<br>3<br>1<br>3<br>1<br>3<br>1<br>3<br>1<br>3<br>1<br>3<br>1<br>3<br>1<br>3<br>1<br>3<br>1<br>3<br>1<br>3<br>1<br>3<br>1<br>3<br>1<br>3<br>1<br>3<br>1<br>3<br>1<br>3<br>1<br>3<br>1<br>3<br>1<br>3<br>1<br>3<br>1<br>3<br>1<br>3<br>1<br>3<br>1<br>3<br>1<br>3<br>1<br>3<br>1<br>3<br>1<br>3<br>1<br>3<br>1<br>3<br>1<br>3<br>1<br>3<br>1<br>3<br>1<br>3<br>1<br>3<br>1<br>3<br>1<br>3<br>1<br>3<br>1<br>3<br>1<br>3<br>1<br>3<br>1<br>3<br>1<br>3<br>1<br>3<br>1<br>3<br>1<br>3<br>1<br>3<br>1<br>3<br>1<br>3<br>1<br>3<br>1<br>3<br>1<br>3<br>1<br>3<br>1<br>3<br>1<br>3<br>1<br>3<br>1<br>3<br>1<br>3<br>1<br>3<br>1<br>3<br>1<br>3<br>1<br>3<br>1<br>3<br>1<br>3<br>1<br>3<br>1<br>3<br>1<br>3<br>1<br>3<br>1<br>3<br>1<br>3<br>1<br>3<br>1<br>3<br>1<br>1<br>1<br>1<br>3<br>1<br>3<br>1<br>3<br>1<br>3<br>1<br>3<br>1<br>3<br>1<br>3<br>1<br>3<br>1<br>3<br>1<br>3<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1   | TING SETPOINT, T<br>G SETPOINT, T<br>DEG. 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| Rp = PEOPLE OUTDOOR AIR RATE, Ra = AREA OUTDOOR AIR RATE, Vbz = BREATHING ZONE OUTDOOR AIRFLOW,20% Voz = 20% OF THEEz = AIR DISTRIBUTION CONFIGURATION, Voz = ZONE OUTDOOR AIRFLOWDCV Voz = GREATER  | 3.<br>4.<br>F<br>NT<br>EQUIPMI<br>NUMBE<br>RTU-E<br>TES:<br>= PEOPI<br>z = ZONI<br>u = UNC  | WARM<br>a.<br>SAFET<br>a.<br>in Tu<br>s<br>ENT<br>R<br>-3<br>-3<br>-2<br>LE OUTDO<br>E PRIMAF                          | ALUP MODE:<br>WHEN THE S<br>MAINTAIN OF<br>TIES:<br>IF THE SPACE<br>100%. AN AL<br><b>be Rac</b><br><b>be Rac</b><br><b></b> | SPACE TEMPERATURE I<br>SPACE TEMPERATURE I<br>CCUPIED SPACE SE<br>CE TEMPERATURE I<br>LEMPERATURE I<br>ARM SHALL BE AC<br>Diation - Ste<br>Carabe S CLRM<br>GRADE 3 CLRM<br>GRADE 5 CLRM<br>GRADE 5 CLRM<br>GRADE 5 CLRM<br>GRADE 5 CLRM<br>GRADE 6 CLRM<br>GRADE 6 CLRM<br>GRADE 6 CLRM<br>GRADE 5 CLRM<br>GRADE 7 CLRM<br>GR  | JRE IS AT OR<br>SETPOINT.<br>JRE IS AT OR<br>TPOINT.<br>S LESS THAN<br>TIVATED.<br>Cam - 2<br>DALE E<br>ZONE ID<br>CCLASS<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Clas             | BELOW THE UN<br>BELOW THE OC<br>I THE HEATING<br>-VVay Cc<br>SUPANCY<br>SIFICATION<br>(age 9 plus)<br>(age 9 plus)<br>(a | NOCCUPIED HEATIN<br>CCUPIED HEATIN<br>SETPOINT BY 10<br>DITTOI Val<br>Az - AREA<br>(SF)<br>Az - AREA<br>(SF)<br>4<br>4<br>2<br>4<br>2<br>4<br>3<br>4<br>3<br>1<br>3<br>1<br>1<br>1<br>3<br>1<br>1<br>3<br>1<br>1<br>3<br>1<br>1<br>3<br>1<br>1<br>3<br>1<br>1<br>3<br>1<br>1<br>3<br>1<br>1<br>3<br>1<br>1<br>3<br>1<br>3<br>1<br>3<br>1<br>3<br>1<br>3<br>1<br>3<br>1<br>3<br>1<br>3<br>1<br>3<br>1<br>3<br>1<br>3<br>1<br>3<br>1<br>3<br>1<br>3<br>1<br>3<br>1<br>3<br>1<br>3<br>1<br>3<br>1<br>3<br>1<br>3<br>1<br>3<br>1<br>3<br>1<br>3<br>1<br>3<br>1<br>3<br>1<br>3<br>1<br>3<br>1<br>3<br>1<br>3<br>1<br>3<br>1<br>3<br>1<br>3<br>1<br>3<br>1<br>3<br>1<br>3<br>1<br>3<br>1<br>3<br>1<br>3<br>1<br>3<br>1<br>3<br>1<br>3<br>1<br>3<br>1<br>3<br>1<br>3<br>1<br>3<br>1<br>3<br>1<br>3<br>1<br>3<br>1<br>3<br>1<br>3<br>1<br>3<br>1<br>3<br>1<br>3<br>1<br>3<br>1<br>3<br>1<br>3<br>1<br>3<br>1<br>3<br>1<br>3<br>1<br>3<br>1<br>3<br>1<br>3<br>1<br>3<br>1<br>3<br>1<br>3<br>1<br>3<br>1<br>3<br>1<br>3<br>1<br>3<br>1<br>3<br>1<br>3<br>1<br>3<br>1<br>3<br>1<br>3<br>1<br>3<br>1<br>3<br>1<br>3<br>1<br>3<br>1<br>3<br>1<br>3<br>1<br>3<br>1<br>3<br>1<br>3<br>1<br>3<br>1<br>3<br>1<br>3<br>1<br>3<br>1<br>3<br>1<br>3<br>1<br>3<br>1<br>3<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1   | TING SETPOINT, T         G SETPOINT, T         DEG. 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AN AI <b>be Rac</b> ROOM         NUMBER         21         22         23         51         24         25         26         27         28         29         203         47         L112         L111         COR AIR RAT         ROOM         NUMBER         7  | SPACE TEMPERATURE I<br>SPACE TEMPERATURE I<br>COUPIED SPACE SE<br>CUPIED SE<br>CUPIED SE<br>CUPIED SPACE SE<br>CUPIED SE<br>CUP                                  | JRE IS AT OR<br>SETPOINT.<br>JRE IS AT OR<br>TPOINT.<br>S LESS THAN<br>DALE 8<br>ZONE ID<br>CCC<br>CLASS<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classrooms<br>Classro             | BELOW THE UN<br>BELOW THE OC<br>I THE HEATING<br>-VVay Cc<br>SUPANCY<br>SIFICATION<br>(age 9 plus)<br>(age 9 plus)<br>(a | NOCCUPIED HEATIN<br>CCUPIED HEATIN<br>SETPOINT BY 10<br>ONTROI Val<br>CAZ - AREA<br>(SF)<br>Az - AREA<br>(SF)<br>Az - AREA<br>(SF)<br>4<br>4<br>4<br>4<br>4<br>5<br>4<br>4<br>4<br>5<br>4<br>4<br>5<br>4<br>4<br>5<br>5<br>6<br>6<br>6<br>6<br>6<br>6<br>6<br>6<br>6<br>6<br>7<br>5<br>8<br>1<br>1<br>7<br>5<br>8<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1   | TING SETPOINT, T         G SETPOINT, T         DEG. F (ADJUS         /C         VENT V         Pz - ZONE         OCCU.         #/1000 FT         35         <  | T, THE CONTROL<br>HE CONTROL<br>STABLE), THE<br>STABLE), THE<br>CONE<br>OCCU.<br>30<br>34<br>29<br>54<br>27<br>30<br>34<br>29<br>54<br>27<br>30<br>33<br>36<br>29<br>0<br>26<br>61<br>379<br>1<br>W, Ez = AIR I<br>Vot = OUTD<br>Vot = OUTD<br>Vot = OUTD<br>Vot = OUTD<br>Vot = 15450<br>7025<br>45<br>15450<br>7025<br>45<br>18<br>VTILAT<br>Pz - ZONE<br>DCCU. #/1000<br>FT<br>100  | CONTROL         CONTROL         CONTROL         MINIMUM         Rp<br>(CFM/<br>Person)         10   | SHALL I<br>ALL MO<br>VALVE S<br>VALVE S<br>VENTIL/<br>RpP<br>300<br>340<br>290<br>540<br>270<br>300<br>340<br>290<br>540<br>270<br>300<br>340<br>290<br>540<br>270<br>300<br>340<br>290<br>540<br>270<br>300<br>340<br>290<br>540<br>270<br>300<br>340<br>290<br>540<br>270<br>300<br>340<br>290<br>540<br>270<br>300<br>340<br>290<br>540<br>270<br>300<br>300<br>300<br>340<br>290<br>540<br>270<br>300<br>300<br>300<br>300<br>300<br>300<br>300<br>3   | MODULATE<br>DULATE TO<br>SHALL OPEI<br>SHALL OPEI<br>ATION RATE<br>(CFM/SF)<br>0.12<br>0.12<br>0.12<br>0.12<br>0.12<br>0.12<br>0.12<br>0.12   | TO<br>N<br>N<br>TO<br>N<br>N<br>N<br>N<br>TI<br>S<br>Ra<br>102<br>90<br>90<br>90<br>102<br>112<br>98<br>90<br>90<br>90<br>90<br>102<br>112<br>98<br>90<br>90<br>90<br>90<br>102<br>112<br>98<br>90<br>90<br>90<br>90<br>90<br>102<br>112<br>98<br>90<br>90<br>90<br>90<br>90<br>102<br>112<br>98<br>90<br>90<br>90<br>90<br>90<br>102<br>112<br>98<br>90<br>90<br>90<br>90<br>102<br>112<br>90<br>90<br>90<br>90<br>90<br>90<br>102<br>112<br>90<br>90<br>90<br>90<br>90<br>90<br>102<br>112<br>90<br>90<br>90<br>90<br>90<br>102<br>112<br>122<br>90<br>90<br>90<br>90<br>90<br>102<br>112<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>10   |  |
| Ez = AIR DISTRIBUTION CONFIGURATION, Voz = ZONE OUTDOOR AIRFLOW DCV Voz = GREATER  | 3.<br>4.<br>8 F<br>NT<br>EQUIPMI<br>NUMBE<br>RTU-E<br>RTU-E<br>RTU-E<br>RTU-E   | WARM<br>a.<br>SAFET<br>a.<br>in Tu<br>s<br>ENT<br>R<br>-3<br>-3<br>-3<br>-2<br>LE OUTDO<br>ENTMAR<br>ORRECTE           | A-UP MODE:         MAINTAIN OF         MAINTAIN OF         WHEN THE S         MAINTAIN OF         IF THE SPACE         I  | SPACE TEMPERATURE I<br>SPACE TEMPERATURE I<br>CCUPIED SPACE SE<br>CE TEMPERATURE I<br>LEMPERATURE I<br>ARM SHALL BE AC<br>Diation - Ste<br>CIation - Ste<br>COMPUTENTIAL<br>GRADE 3 CLRM<br>GRADE 5 CLRM<br>GRADE 5 CLRM<br>GRADE 5 CLRM<br>GRADE 5 CLRM<br>GRADE 6 CLRM<br>CORRIDOR<br>TEACHER PLANNIN<br>STAGE<br>GYMNASIUM<br>P.E. OFFICE<br>TE, Ra = AREA OUTI<br>7, Zpz = PRIMARY O<br>R AIR INTAKE, D =<br>SYSTEM VALUES F<br>SYSTEM VALUES F<br>CORCIDENT<br>CONTINUES F<br>CONTINUES F<br>SYSTEM VALUES F<br>CONTINUES F  | JRE IS AT OR<br>SETPOINT.<br>JRE IS AT OR<br>TPOINT.<br>S LESS THAN<br>CLASS THAN<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS | BELOW THE UN<br>BELOW THE OC<br>I THE HEATING<br>-VVay Cc<br>SUPANCY<br>SIFICATION<br>(age 9 plus)<br>(age 9 plus)<br>(a | NOCCUPIED HEATIN<br>CCUPIED HEATIN<br>SETPOINT BY 10<br>DITTOI Val<br>DITTOI Val<br>Az - AREA<br>(SF)<br>Az - AREA<br>(SF)<br>Az - AREA<br>(SF)<br>4<br>4<br>4<br>4<br>5<br>4<br>4<br>5<br>4<br>5<br>4<br>5<br>4<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5  | TING SETPOINT, T<br>G SETPOINT, T<br>DEG. F (ADJUS<br>/C<br>/C<br>/C<br>/C<br>/C<br>/C<br>/C<br>/C<br>/C<br>/C<br>/C<br>/C<br>/C   | T, THE CONTROL<br>HE CONTROL<br>STABLE), THE<br>CONE<br>COCU.<br>30<br>34<br>29<br>54<br>27<br>30<br>34<br>29<br>54<br>27<br>30<br>30<br>34<br>29<br>54<br>27<br>30<br>33<br>36<br>29<br>0<br>26<br>61<br>379<br>1<br>VV, Ez = AIR I<br>VOT = OUTDO<br>VOT  | CONTROL         CONTROL         CONTROL         MINIMUM         Rp<br>(CFM/<br>Person)         10   | SHALL I<br>ALL MO<br>VALVE S<br>VALVE S<br>VENTIL/<br>RpP<br>300<br>340<br>290<br>340<br>290<br>300<br>340<br>290<br>340<br>290<br>300<br>340<br>290<br>300<br>340<br>290<br>300<br>340<br>290<br>300<br>340<br>290<br>300<br>340<br>290<br>300<br>340<br>290<br>300<br>340<br>290<br>300<br>340<br>290<br>300<br>340<br>290<br>300<br>340<br>290<br>300<br>340<br>290<br>300<br>300<br>340<br>290<br>300<br>300<br>300<br>300<br>300<br>300<br>300<br>3   | MODULATE<br>DULATE TC<br>SHALL OPEN<br>SHALL OPEN<br>ATION RATE<br>Ra<br>(CFM/SF)<br>0.12<br>0.12<br>0.12<br>0.12<br>0.12<br>0.12<br>0.12<br>0.12   | TO N N TO  |  |
|  | 3.<br>4.<br>8 F<br>NT<br>EQUIPMI<br>NUMBE<br>RTU-E<br>RTU-E<br>RTU-E<br>RTU-E<br>RTU-E  | WARM<br>a.<br>SAFET<br>a.<br>in Tu<br>S<br>ENT<br>R<br>-3<br>-3<br>-3<br>-3<br>-3<br>-3<br>-3<br>-3<br>-3<br>-3        | ALUP MODE:<br>WHEN THE S<br>MAINTAIN OF<br>TIES:<br>IF THE SPACE<br>100%. AN AI<br><b>be Rac</b><br><b>be Rac</b><br><b></b> | SPACE TEMPERATURE I<br>SPACE TEMPERATURE I<br>CCUPIED SPACE SE<br>CE TEMPERATURE I<br>LARM SHALL BE AC<br>CLEPTONI<br>CARM SHALL BE AC<br>CLEPTONI<br>GRADE 3 CLRM<br>GRADE 3 CLRM<br>GRADE 5 CLRM<br>GRADE 5 CLRM<br>GRADE 5 CLRM<br>GRADE 5 CLRM<br>GRADE 6 CLRM<br>GRADE 6 CLRM<br>GRADE 6 CLRM<br>GRADE 5 C | JRE IS AT OR<br>SETPOINT.<br>JRE IS AT OR<br>TPOINT.<br>S LESS THAN<br>CLASS THAN<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS<br>CLASS | BELOW THE UN<br>BELOW THE OC<br>I THE HEATING<br>-VVay Cc<br>SUPANCY<br>SIFICATION<br>(age 9 plus)<br>(age 9 plus)<br>(a | NOCCUPIED HEATIN<br>CCUPIED HEATIN<br>SETPOINT BY 10<br>ONTROI Val<br>ONTROI Val<br>ONTROI Val<br>ONTROI Val<br>ONTROI Val<br>ONTROI VAL<br>Az - AREA<br>(SF)<br>4<br>4<br>4<br>4<br>5<br>4<br>5<br>4<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5   | TING SETPOINT, T<br>G SETPOINT, T<br>DEG. F (ADJUS<br>/C<br>VENT V<br>Pz - ZONE<br>OCCU.<br>#/1000 FT<br>35<br>35<br>35<br>35<br>35<br>35<br>35<br>35<br>35<br>35<br>35<br>35<br>35  | T, THE CONTROL<br>HE CONTROL<br>STABLE), THE<br>CONE<br>OCCU.<br>30<br>34<br>29<br>54<br>27<br>30<br>34<br>29<br>54<br>27<br>27<br>30<br>33<br>36<br>29<br>0<br>26<br>61<br>379<br>1<br>20<br>26<br>61<br>379<br>1<br>20<br>26<br>61<br>379<br>1<br>20<br>20<br>26<br>61<br>379<br>1<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20   | CONTROL         CONTROL         CONTROL         MINIMUM         Rp<br>(CFM/<br>Person)         10   | ALL MO ALVE S ALVE S AUVELVE S AUVEL | MODULATE         DULATE TC         DULATE TC         SHALL OPEI         ATION RATE         Ra         (CFM/SF)         0.12         0.06         0.06         0.06         0.06         0.06         0.06         0.07         ED OA) Vou         D         EV         MUM VENTIN         ON         MON         Information         Information         Information | TO<br>N<br>N<br>N<br>N<br>N<br>N<br>N<br>N<br>N<br>N<br>N<br>N<br>N  |  |

![](_page_68_Figure_1.jpeg)

| 12 13 14   | 15 16 17  |  |
|--|---|--|
|  |   | TEMPERATURE CONTROLS<br>SYMBOLS LIST   |
| OUTSIDE AIR<br>HUMIDITY SENSOR   |   | AI ANALOG IN   |
|  |   | AO ANALOG OUT  |
|  | HWS   | COM COMMUNICATIONS PORT  |
|  | O COM AI DISCHARGE AIR TEMP   |  |
|  | VFD   TS   DI   NEUTRAL DECK  |  |
|  | HW COUL (TS-AITEMP  |  |
|  |   |  |
|  |   |  |
|  |   | (F) FLOW (WATER/AIR)   |
|  | DI AI AI COOLING TS   |  |
|  |   |  |
|  | ETURN<br>FAN  |  |
|  |   |  |
|  |   | (H) HUMIDITY SENSOR  |
|  | M DISCHARGE -   |  |
|  |   | (WH) KILOWATT HOUR METER   |
| •  |   |  |
|  |   | M/S MANUAL SWITCH STOP / START   |
| LTI-ZONE UNIT - HOT WATER (3-WAY VALVE CONTROL) W/ENERGY RECOVERY - S  | SEQUENCE OF OPERATIONS:   | P PRESSURE SENSOR  |
| GENERAL:   |   |  |
| a. PROVIDE WALL MOUNTED TEMPERATURE SENSORS MOUNTED IN CONT<br>CONTROL. SHOW INDIVIDUAL AND AVERAGED DATA ON GRAPHIC.  | ROLLED SPACES IN APPROPRIATE LOCATIONS AS REQUIRED TO MAINTAIN PROPER   |  |
| OCCUPIED PERIOD:   |   |  |
| a. SUPPLY FAN AND RETURN FAN SHALL RUN CONTINUOUSLY. THE SUPPL<br>CONTRACTOR.<br>THE OUTSIDE AIR DAMPER SHALL OPEN TO THE DOSITION DECLIDED TO   | Y FAN SHALL RUN AT THE FREQUENCY DETERMINED BY THE BALANCING  |  |
| <ul> <li>DAMPER SHALL NEVER BE POSITIONED BELOW THIS MINIMUM POSITION</li> <li>C. MAINTAIN SPACE TEMPERATURE HEATING (68°F ADJ.) AND MAXIMUM AV</li> </ul>   | EXCEPT IN CASE OF ALARM. RUN THE ENERGY RECOVERY WHEEL.<br>(ERAGE RETURN AIR RELATIVE HUMIDITY SETPOINT OF 60% (ADJ.). ALL SETPOINTS  | SMOKE DETECTOR   |
| d. HEATING: MODULATE THE HEATING CONTROL VALVE AS REQUIRED TO N  | IVIDUAL PREFERENCES IN THE RESPECTIVE ZONE THERMOSTATS.<br>MAINTAIN OUTDOOR AIR RESET OF HOT DECK TEMPERATURE. VARY HOT DECK  | (ST) STATUS  |
| FROM 55 DEG. F (ADJ.) TO 10 DEG. F (ADJ.). ABOVE AND BELOW THESE (<br>CONSTANT AS POSSIBLE WITHIN FOUIPMENT RESTRAINTS. MODULATE   | ) DEG. F (ADJ.) TO 90 DEG. F (ADJ.), AS THE OUTDOOR AIR TEMPERATURE VARIES<br>DUTDOOR TEMPERATURES THE HOT DECK TEMPERATURE SHALL REMAIN —<br>INDIVIDUAL ZONE BLADES TO MIX HOT AND COLD (NEUTRAL) DECK AIR AS            | START STARTER  |
| REQUIRED TO MAINTAIN SMOOTH TEMPERATURE CONTROL OF DISCHAI<br>THE FIRST YEAR OF OPERATION TO MINIMIZE BOTH ENERGY USE AND  | RGE AIR TEMPERATURE AND ZONE SETPOINTS. ADJUST RESET SCHEDULE DURING<br>IO-HEAT" COMPLAINTS.  | T ADJUSTABLE THERMOSTAT  |
| e. ECONOMIZER MODE:<br>A. PROVIDE ENTHALPY BASED ECONOMIZER COOLING PRIOR TO USI<br>ECONOMIZER CONTROLS FOR MORE DETAILS   | NG MECHANICAL COOLING. REFER TO GENERAL SPECIFICATION ENTHALPY  | TS TEMPERATURE SENSOR  |
| <ul> <li>B. FIRST STAGE ECONOMIZER COOLING: TURN OFF THE ENERGY REC</li> <li>C. SECOND STAGE OF ECONOMIZER COOLING: MODULATE THE ECON</li> </ul>   | COVERY WHEEL.<br>NOMIZER (OUTSIDE AND EXHAUST AIR) DAMPERS OPEN AS REQUIRED, WHILE  |  |
| D. MAINTAINING AT MINIMUM 55°F RTU NEUTRAL DECK TEMPERATUR<br>D. MODULATE INDIVIDUAL ZONE BLADES BETWEEN HOT AND NEUTRA<br>SMOOTH TEMPERATURE CONTROL OF DISCHARGE AIR TEMPERAT  | E.<br>AL DECKS, AND BETWEEN COLD AND NEUTRAL DECKS, AS REQUIRED TO MAINTAIN<br>TURE AND ZONE SETPOINTS  | WS WATER SENSOR  |
| UNOCCUPIED PERIOD:   |   | % PERCENT  |
| a. THERE SHALL BE NO MINIMUM OUTSIDE AIR REQUIREMENT DURING THE TO BE SHUT DURING HEATING OPERATION. AND THE RECIRCULATION DA  | UNOCCUPIED PERIOD; CONTROL THE OUTSIDE AIR AND EXHAUST AIR DAMPERS  | ES END SWITCH  |
| <ul><li>DAMPERS OPEN, AND THE RECIRCULATION DAMPER CLOSED, AS REQU</li><li>b. RUN THE SUPPLY AND EXHAUST FANS INTERMITTENTLY AT REDUCED C</li></ul>  | RED TO MAINTAIN THE UNOCCUPIED PERIOD ECONOMIZER COOLING SET POINT.<br>FM AS REQUIRED TO MAINTAIN A REDUCED SPACE TEMPERATURE HEATING SET-  |  |
| POINT (INITIALLY 65°F). THE FANS TO BE OFF WHEN THE SPACE IS WITHI<br>OF THE SUPPLY AND EXHAUST FAN VARIABLE SPEED DRIVES AS A FUNC<br>THE LARGEST PERCENTAGE OPEN POSITION OF THE HEATING VALVE OF                            | N THE SET-POINT DEAD-BAND (ADJ.), AND CONTINUOUSLY MODULATE THE SPEED<br>CTION OF THE DEVIATION FROM THE SETPOINTS AS REQUIRED, PROPORTIONAL TO の<br>THE OUTSIDE AIR DAMPER ALL SET-POINTS SHALL BE ADJUSTABLE AT THE OWS |  |
| c. ON CALL FOR HEAT, MODULATE THE HEATING CONTROL VALVE AS REQUINAND DURING THE OCCUPIED PERIOD TO MINIMIZE RUNTIME. VARY HO   | JIRED TO MAINTAIN OUTDOOR AIR RESET OF HOT DECK TEMPERATURE, HOTTER<br>DECK TEMPERATURE INVERSELY WITH OUTDOOR AIR TEMPERATURE FROM 80  |  |
| OUTDOOR TEMPERATURES THE HOT DECK TEMPERATURE SHALL REMA<br>SCHEDULE AND DEADBAND AS REQUIRED DURING THE FIRST YEAR OF (   | - VARIES FROM 55 DEG. F (ADJ.) TO 10 DEG. F (ADJ.). ABOVE AND BELOW THESE<br>IN CONSTANT AS POSSIBLE WITHIN EQUIPMENT RESTRAINTS. ADJUST RESET<br>OPERATION TO MINIMIZE ENERGY USE. SHORT CYCLING. AND MAINTAIN SPACE     |  |
| <ul> <li>TEMPERATURE HEATING SETPOINTS.</li> <li>d. MODULATE THE ZONE BLADES AS REQUIRED TO ACHIEVE SETPOINT RAME</li> </ul>   | PIDLY WITHOUT OVERHEATING INDIVIDUAL SPACES.  |  |
| <ul> <li>WHEN THERE IS ASSOCIATED FIN TUBE RADIATION SERVING THE SAME<br/>OPERATE ONLY WHEN FIN TUBE IS NOT MAINTAINING SET-POINT.</li> <li>MHEN THE OUTSIDE AIR TEMPERATURE 36°F OR LOWER AND THE FANS</li> </ul>             | ARE OFF, OPEN THE CONTROL VALVE TO COIL TO PREVENT FREEZE-UP.   |  |
| PROPORTIONALLY OPEN THE CONTROL VALVE TO COIL AS THE OUTDOO<br>AT 0 DEG. F (ADJ.).   | DR AIR TEMPERATURE VARIES, FROM 20% (ADJ.) AT 36 DEG. F (ADJ.) TO 50% (ADJ.)  |  |
| WARM-UP PERIOD:  |   |  |
| <ul> <li>a. WARMUP MODE SHALL BE USED BETWEEN UNOCCUPIED AND OCCUPIED</li> <li>b. THE CHANGE FROM UNOCCUPIED TO WARMUP MODES SHALL BE PART</li> <li>C. ON INITIATION OF WARMUP MODE, PUN THE SUPPLY AND EXHAUST FAN</li> </ul> | D MODES.<br>OF THE STAGGERED START SCHEDULE.<br>S CONTINUOUSLY AND MODULATE THE ZONE BLADES AND HEATING CONTROL   |  |
| <ul> <li>ON INITIATION OF WARMOP MODE, RUN THE SUPPLY AND EXHAUST FAN<br/>VALVE,AS REQUIRED TO ACHIEVE AND MAINTAIN THE OCCUPIED PERIOL</li> <li>MAINTAIN THE OUTSIDE, EXHAUST AND RECIRCULATION AIR DAMPERS II</li> </ul>     | TEMPERATURE SET POINT.<br>THE UNOCCUPIED POSITION UNTIL MORNING WARM-UP OR COOL DOWN HAS  |  |
| BEEN ACCOMPLISHED, THEN SLOWLY MODULATE DAMPERS TO THEIR P<br>ACTIVATION OF THE LOW TEMPERATURE LIMIT. TIMING OF WARMUP MC<br>BEGINNING OF THE OCCUPED PERIOD SCHEDULED  | ROPER OCCUPIED MODE POSITION. AVOID SUDDEN TEMPERATURE SWINGS AND DE SHALL INSURE AT LEAST ONE FULL AIR CHANGE "PURGE" BEFORE THE   |  |
| SAFETIES:  | _   |  |
| a. PROVIDE FILTER DIFFERENTIAL PRESSURE SWITCHES ACROSS EACH FI<br>EXCEED THEIR DIFFERENTIAL PRESSURE LIMIT.   | LTER BANK; ALARM THE OWS WHEN THE FILTERS (AND WHICH FILTER BANK)   | S.E.D. Control No. 62-18-01-06-0-001-019   |
| b. SENSE THE STATUS OF THE FAN VIA FEEDBACK FROM VSD. WHEN THE S<br>AT THE OWS.  | SPEED COMMAND AND FEEDBACK STATUS DO NOT AGREE, GENERATE AN ALARM   |  |
| C. PROVIDE COIL FREEZE PROTECTION VIA ANALOG TEMPERATURE SENSU<br>FREEZESTAT. WHENEVER FREEZE-UP CONDITIONS ARISE (36 DEG. F AD<br>POSITION THE HEATING THREE-WAY CONTROL VALVE FULLY OPEN TO C                                | JUSTABLE) STOP THE SUPPLY FAN, FULLY CLOSE THE OUTSIDE AIR DAMPER,  |  |
| d. FIRE ALARM SHUTDOWN.<br>e. HOT DECK HIGH TEMP ALARM<br>f. HOT DECK LOW TEMP ALARM   |   |  |
|  | _   | Rev. No.: Date: Description:   |
| 1) Multi-Zone Roottop Unit - RTU-E-3   |   |  |
|  |   |  |
| ST AI DISCHARGE SPACE TEMPERATURE  |   | CENTRAL SCHOOL DISTRICT  |
| AIR TEMP SENSOR  |   |  |
|  | RETURN FILTER STEAM SUPPLY SUPPLY   | complex world  |
| SUPPLY STEAM SUPPLY  |   | CLEAR SOLUTIONS  |
|  |   |  |
|  |   | Tetra Tech Engineers, Architects & Construction & C |
|  | TS SPACE TEMPERATURE SENSOR   |  |
|  |   |  |
| ERATIONS:  |   |  |
| ITH KITCHEN EXHAUST FAN.   | CABINET UNIT HEATER - STEAM - VALVE CONTROL - SEQUENCE OF OPERATIONS:   |  |
| PEN.<br>RE DROPS 3 DEG. F (ADJ.) BELOW THE HEATING SET POINT (70 DEG. F.   | 1. OCCUPIED MODE:   | Wallkill Control School District   |
| HALL MODULATE TO MAINTAIN SPACE HEATING SETPOINT SUBJECT TO<br>DEG F (ADJ.).   | a. WHEN THE SPACE TEMPERATURE IS AT OR BELOW THE HEATING<br>SETPOINT, CYCLE THE SUPPLY FAN ON AND THE CONTROL VALVE   | Wallkill. New York   |
|  | 2. UNOCCUPIED MODE:   |  |
| LL BE FULLY CLOSED.  | a. ON DROP IN SPACE TEMPERATURE BELOW THE UNOCCUPIED ≥<br>SETPOINT, CYCLE THE SUPPLY FAN ON AND THE CONTROL VALVE   | Reconstruction to:   |
|  | FULL OPEN TO MAINTAIN SPACE UNOCCUPIED SETPOINT.  | Leptondale Elementary School   |
| DSS THE AIR FILTERS SHALL GENERATE AN ALARM WHENEVER THE<br>EDS IT'S ADJUSTABLE SETPOINT.<br>ATURE DROPS BELOW 35 DEG. F (ADJUSTABLE), THE SUPPLY FAN SHALL  | 3. WARM-UP MODE:<br>a. THE UNIT SHALL START PER AN OPTIMAL START PROGRAM  |  |
| ED OUT, THE CONTROL VALVE SHALL MODULATE FULLY OPEN, AND AN  | 4. SAFETIES:  | Controls   |
| ATURE RISES ABOVE 120 DEG. F (ADJUSTABLE), THE CONTROL VALVE SHALL<br>ARM SHALL BE ACTIVATED.<br>SENSED BY A CURRENT SENSING STATUS SWITCH. GENERATE AN ALARM AT   | a. UPON FAILURE OF THE FAN, AS SENSED BY A CURRENT SENSING STATUS SWITCH, GENERATE AN ALARM AT THE OWS.   |  |
|  | z   | Drawn By: Date: Drawing Number:  |
|  | CITEL Steam Makes Original  | JPF1/pgm         11/4/2022           Project No.:  |
| leam - MUA-E-I   |   | 17597-22001 EM700  |
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|        |       |           | LUMINAIRE   | SCHEDUL | E      |      |                        |                          |    |    |    |    |
|        |       |           |   |         | LAMPS  |      | MANUF                  | ACTURERS (OR EQUAL)      | -  |    |    |    |
|        |       | TYPE SYME | OL DESCRIPTION  | WATTAGE | LUMENS | TYPE | NAME                   | MODEL OR SERIES          |    |    |    |    |
|        |       | 1         | 2' x 2' FLAT PANEL (RECESSED IN GRID) - WITH INTEGRAL                           | 16      | 2000   | LED  | SIGNIFY                | 2EP720I 835-2-DS-UNV-DIM |    |    |    |    |
|        |       |           | BATTERY   |         |        |      | (DAY-BRITE)            |                          |    |    |    |    |
| ш      |       | 2         | 2' x 2' FLAT PANEL (RECESSED IN GRID)   | 29      | 3800   | LED  | SIGNIFY<br>(DAY-BRITE) | 2FPZ38L835-2-DS-UNV-DIM  |    |    |    |    |
|        |       | 2EM       | 2' x 2' FLAT PANEL (RECESSED IN GRID) - WITH INTEGRAL<br>BATTERY                | 29      | 3800   | LED  | SIGNIFY<br>(DAY-BRITE) | 2FPZ38L835-2-DS-UNV-DIM  |    |    |    |    |
|        |       |           |   |         | 4500   |      | SIGNIFY                |                          | -  |    |    |    |
|        |       |           |   | 36      | 4500   |      | (DAY-BRITE)            |                          | -  |    |    |    |
|        |       | 3EM       | 2' x 2' FLAT PANEL (RECESSED IN GRID) - WITH INTEGRAL<br>BATTERY                | 36      | 4500   | LED  | SIGNIFY<br>(DAY-BRITE) | 2FPZ45L835-2-DS-UNV-DIM  |    |    |    |    |
| ш      |       | 4         | 4" ROUND DOWNLIGHT  | 8.8     | 868    | LED  | SIGNIFY<br>(LEDALITE)  | L4R10935VB / L4RDW       |    |    |    |    |
|        |       | _         |   |         |        |      | KENALL                 |                          | _  |    |    |    |
| _      |       | 5         | 2' x 2' FOOD PROCESSING LUMINAIRE (RECESSED IN GRID)                            | 45      | 4500   | LED  | LIGHTING               | 45LD-35K8-DIM1-DV-5F-4H  | -  |    |    |    |
|        |       | 5EM       | 2' x 2' FOOD PROCESSING LUMINIARE (RECESSED IN GRID) -<br>WITH INTEGRAL BATTERY | 45      | 4500   | LED  | KENALL<br>LIGHTING     | 45LD-35K8-DIM1-DV-5F-4H  |    |    |    |    |
|        |       | 6         | 1' x 4' FLAT PANEL (SURFACE MOUNT)  | 30      | 3800   | LED  |                        | 1FPZ38L835-4-UNV-DIM     | -  |    |    |    |
| o<br>ا |       |           |   |         |        |      |                        |                          | _  |    |    |    |
|        |       | 20        | EXIT SIGN (DOUBLE FACE) CEILING MOUNT SEE PLANS<br>FOR DIRECTIONAL INDICATORS   | 2.5     |        | LED  | SIGNIFY<br>(CHORIDE)   | ER46L-2-W-R              |    |    |    |    |
| _      |       |           |   |         |        |      | * N                    |                          |    |    |    |    |
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|         |        | LUMINAIRE SO  | CHEDUL  | E      |      |                        |                         |
|---------|--------|---|---------|--------|------|------------------------|-------------------------|
|         |        |   |         | LAMPS  |      | MANUFA                 | CTURERS (OR EQUAL)      |
| TYPE    | SYMBOL | DESCRIPTION   | WATTAGE | LUMENS | TYPE | NAME                   | MODEL OR SERIES         |
| 1<br>EM |        | 2' x 2' FLAT PANEL (RECESSED IN GRID) - WITH INTEGRAL<br>BATTERY              | 16      | 2000   | LED  | SIGNIFY<br>(DAY-BRITE) | 2FPZ20L835-2-DS-UNV-DIM |
| 2       |        | 2' x 2' FLAT PANEL (RECESSED IN GRID)   | 29      | 3800   | LED  | SIGNIFY<br>(DAY-BRITE) | 2FPZ38L835-2-DS-UNV-DIM |
| 2EM     |        | 2' x 2' FLAT PANEL (RECESSED IN GRID) - WITH INTEGRAL<br>BATTERY              | 29      | 3800   | LED  | SIGNIFY<br>(DAY-BRITE) | 2FPZ38L835-2-DS-UNV-DIM |
| 3       |        | 2' x 2' FLAT PANEL (RECESSED IN GRID)   | 36      | 4500   | LED  | SIGNIFY<br>(DAY-BRITE) | 2FPZ45L835-2-DS-UNV-DIM |
| 3EM     |        | 2' x 2' FLAT PANEL (RECESSED IN GRID) - WITH INTEGRAL<br>BATTERY              | 36      | 4500   | LED  | SIGNIFY<br>(DAY-BRITE) | 2FPZ45L835-2-DS-UNV-DIM |
| 4       | Ô      | 4" ROUND DOWNLIGHT  | 8.8     | 868    | LED  | SIGNIFY<br>(LEDALITE)  | L4R10935VB / L4RDW      |
| 5       |        | 2' x 2' FOOD PROCESSING LUMINAIRE (RECESSED IN GRID)                          | 45      | 4500   | LED  | KENALL<br>LIGHTING     | 45LD-35K8-DIM1-DV-5F-4H |
| 5EM     |        | 2' x 2' FOOD PROCESSING LUMINIARE (RECESSED IN GRID) - WITH INTEGRAL BATTERY  | 45      | 4500   | LED  | KENALL<br>LIGHTING     | 45LD-35K8-DIM1-DV-5F-4H |
| 6       |        | 1' x 4' FLAT PANEL (SURFACE MOUNT)  | 30      | 3800   | LED  | SIGNIFY<br>(DAY-BRITE) | 1FPZ38L835-4-UNV-DIM    |
| 20      |        | EXIT SIGN (DOUBLE FACE) CEILING MOUNT SEE PLANS<br>FOR DIRECTIONAL INDICATORS | 2.5     |        | LED  | SIGNIFY<br>(CHORIDE)   | ER46L-2-W-R             |

## Rev. No.: Date: Description: TRALSC complex world

Schedules

Drawn By: CR Project No.: 17597-22001





| rol No. 62-1<br>rol No. 62-1<br>rol No. 62-1  | 8-01-06-0-003-014<br>8-01-06-0-005-015<br>8-01-06-0-001-019  |
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|   |  |
| Description:  |  |
| CENTRAL   | LLKILL<br>SCHOOL DISTRICT  |
| AR SOLUTIONS<br>eers, Architects  | SCHOOL DISTRICT  |
| AR SOLUTIONS<br>eers, Architects<br>hitects, P.C.<br><b>TET</b><br>ARCHITE  |  |
| AR SOLUTIONS<br>eers, Architects<br>hitects, P.C.<br><b>TET</b><br>ARCHITE  | School district   School district  |
| AR SOLUTIONS<br>eers, Architects<br>hitects, P.C.<br><b>TET</b><br>ARCHITE<br>entral School<br>ew York<br>ction to:<br>entary School<br>ntary School<br>mentary School  | SCHOOL DISTRICT   SCHOOL DISTRICT Image: School District Image: School District Image: School District |
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