SOUTH ORANGETOWN CENTRAL SCHOOL DISTRICT
PHASE 2: 2022 BOND
TAPPAN ZEE HIGH SCHOOL
BID DOCUMENTS

TAPPAN ZEE HIGH SCHOOL SED# : 50-03-01-06-0-006-033

15 DUTCH HILL ROAD
ORANGEBURG, NY 10962

ARCHITECT

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ARCHITECT CERTIFICATION

TO THE BEST OF MY KNOWLEDGE, INFORMATION AND BELIEF, THE PLANS AND SPECIFICATIONS ARE IN ACCORDANCE WITH APPLICABLE REQUIREMENTS OF THE BUILDING CODE OF NEW YORK STATE, THE ENERGY CONSERVATION CONSTRUCTION CODE OF NEW YORK STATE, NYSDOL INDUSTRIAL CODE RULE 56 AND THE CONSTRUCTION STANDARD OF THE NEW YORK STATE EDUCATION DEPARTMENT. NO ASBESTOS CONTAINING MATERIALS ARE SPECIFIED FOR USE IN NEW CONSTRUCTION.

LAUREN TARSIO	037878	09/30/26
Registered Architect	N.Y.S. Registration No.	Registration Expiration Date

PROJECT ABBREVIATIONS

A	
AFF	ABOVE FINISHED FLOOR
AP	ACCESS PANEL
ACOUS	ACOUSTICAL
ACT	ACOUSTICAL CEILING TILE
AWP	ACOUSTICAL WALL PANEL
ADJ	ADJACENT
A/C	AIR CONDITIONING
ALT	ALTERNATE
ALUM	ALUMINUM
AB	ANCHOR BOLT
ANOD	ANODIZED
APPROX	APPROXIMATE
ARCH	ARCHITECT, ARCHITECTURAL
AD	AREA DRAIN
ACM	ASBESTOS CONTAINING MATERIAL
@	AT
AUTO	AUTOMATIC
B	
BP	BEARING PLATE
BM	BENCH MARK
BITUM	BITUMINOUS
BLK	BLOCK
BLKG	BLOCKING
BD	BOARD
BOT	BOTTOM
BRK	BRICK
BLDG	BUILDING
BN	BULLNOSE
C	
CAB	CABINET
CI	CAST IRON
CB	CATCH BASIN OR CHALK BOARD
CLG	CEILING
CLG HT	CEILING HEIGHT
CL	CENTER LINE
CER	CERAMIC
CIRC	CIRCUMFERENCE
CO	CLEAN OUT
CLR	CLEAR
COL	COLUMN
CONC	CONCRETE
CMU	CONCRETE MASONRY UNIT
CONST	CONSTRUCTION
CJT	CONSTRUCTION JOINT
CONT	CONTINUOUS
CONTR	CONTRACTOR
CJ	CONTROL JOINT
D	
DP	DAMP PROOFING
DEMO	DEMOLISH
DEPT	DEPARTMENT
DET,DTL	DETAIL
DIA	DIAMETER

DIM	DIMENSION
DISP	DISPENSER
DSP	DISPOSAL
DO	DITTO, REPEAT, SAME
DR	DOOR
DBL	DOUBLE
DN	DOWN
DS	DOWNSPOUT
DT	DRAIN TILE
DWR	DRAWER
DWG	DRAWING
DF	DRINKING FOUNTAIN
E	
EA	EACH
EF	EACH FACE
EW	EACH WAY
E	EAST
ELEC	ELECTRICAL
ELEV	ELEVATION
EL	ELEVATOR
EMER	EMERGENCY
ENCL	ENCLOSURE
ENTR	ENTRANCE
EQ	EQUAL
EQUIP	EQUIPMENT
EST	ESTIMATE(D)
EXHST	EXHAUST
EXIST	EXISTING
EXP	EXPANSION
EJ	EXPANSION JOINT
F	
FAB	FABRICATE
FT	FEET
FIG	FIGURE
FIN	FINISH
FF	FINISH FLOOR
FEC	FIRE EXTINGUISHER CABINET
FH	FIRE HOSE
FL/FLR	FLOOR
FD	FLOOR DRAIN
FTG	FOOTING
FND	FOUNDATION
FS	FULL SIZE
FUT	FUTURE
G	
GALV	GALVANIZED
G	GAS
GA	GAUGE
GEN	GENERAL
GC	GENERAL CONTRACTOR
GL	GLASS, GLAZING
GB	GRAB BAR
GR	GRADE, GRADING
GSF	GROSS SQUARE FOOT

GYP	GYPSUM
GYP BD	GYPSUM BD
GWB	GYPSUM WALL BOARD
H	
HDWR	HARDWARE
HDWD	HARDWOOD
HVAC	HEATING, VENTILATING & AIR CONDITIONING
HT, HGT	HEIGHT
HEX	HEXAGONAL
HWY	HIGHWAY
HM	HOLLOW METAL
HORZ	HORIZONTAL
HB	HOSE BIBB
HW	HOT WATER
HR	HOUR
I	
IN	INCH
INCL	INCLUDING
ID	INSIDE DIAMETER
INSUL	INSULATION
INT	INTERIOR
INTERM	INTERMEDIATE
INV	INVERT
J	
JAN	JANITOR
JS	JANITOR SINK
JT	JOINT
K	
KIT	KITCHEN
L	
LBL	LABEL
LAB	LABORATORY
LAM	LAMINATE(D)
LAV	LAVATORY
LYR	LAYER
LDR	LEADER
LH	LEFT HAND
LIB	LIBRARY
LT	LIGHT
LW	LIGHT WEIGHT
M	
MACH	MACHINE
MH	MAN HOLE
MHC	MAN HOLE COVER
MFR	MANUFACTURE
MFRR	MANUFACTURER
MAS	MASONRY
MO	MASONRY OPENING
MAT	MATERIALS
MAX	MAXIMUM
MECH	MECHANICAL
MET	METAL
MTL	METAL

M	METER
MEZZ	MEZZANINE
MIN	MINIMUM
MISC	MISCELLANEOUS
MR	MOISTURE RESISTANT
MTD	MOUNTED
N	
NAT	NATURAL
NRC	NOISE REDUCTION COEFFICIENT
NOM	NOMINAL
N	NORTH
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
NO, #	NUMBER
O	
OC	ON CENTER
OPNG	OPENING
OD	OUTSIDE DIAMETER
OH	OVERHEAD
P	
PT	PAINT(ED)
PR	PAIR
PTR	PAPER TOWEL RECEPTOR
PKG	PARKING
PART BD	PARTICLE BOARD
PART	PARTITION
PVMT	PAVEMENT
PL	PLATE
PLBG	PLUMBING
PLYWD	PLYWOOD
PVC	POLYVINYL CHLORIDE
PC CONC	PRECAST CONCRETE
PRE FAB	PREFABRICATED
PT	PRESSURE TREATED
PL	PROPERTY LINE
Q	
QTY	QUANTITY
R	
RAD	RADIUS
RECP	RECEPTACLE
RE:	REFER TO
REF	REFERENCE
REFR	REFRIGERATOR
REINF	REINFORCED(ING)
REQ'D	REQUIRED
REV	REVISED
RH	RIGHT HAND
R	RISER
RD	ROOF DRAIN
RM	ROOM
RO	ROUGH OPENING
S	
SAN	SANITARY
SCHED	SCHEDULE

SEC	SECOND
SECT	SECTION
SIM	SIMILAR
SSM	SOLID SURFACE MATERIAL
STC	SOUND TRANSMISSION COEFFICIENT
SPEC	SPECIFICATION
SQ	SQUARE
SS	STAINLESS STEEL
STD	STANDARD
STL	STEEL
STOR	STORAGE
SGFT	STRUCTURAL GLAZED FACING TILE
ST STL	STRUCTURAL STEEL
STRUCT	STRUCTURE, STRUCTURAL
SUSP	SUSPENDED
SAT	SUSPENDED ACOUSTICAL TILE
T	
TEL	TELEPHONE
TEMP	TEMPERATURE
THK	THICKNESS
TPD	TOILET PAPER DISPENSER
TOS	TOP OF SLAB/STEEL
TOW	TOP OF WALL
TYP	TYPICAL
U	
UNFIN	UNFINISHED
UNO	UNLESS NOTED OTHERWISE
U	URINAL
V	
VEN	VENEER
VIF	VERIFY IN FIELD
VEST	VESTIBULE
VOL	VOLUME
W	
WC	WATER CLOSET
WT	WEIGHT
WWF	WELDED WIRE FABRIC
WWM	WELDED WIRE MESH
W	WEST
WIND	WINDOW
W/	WITH
W/O	WITHOUT
WD	WOOD
Y	
YD	YARD

A	COLUMN CENTERLINE A	
3 / A201 SIM	DETAIL #3 on SHEET A201	
1 / A101 SIM	BUILDING SECTION (NO.) or WALL SECTION (LETTER) on SHEET A101	
	ROOM NUMBER 1000	
3 / A701 / 2	INTERIOR ELEVATIONS # 2 and #3 on SHEET A501	
3 / A301	EXTERIOR ELEVATIONS #3 on SHEET A301	
	PARTITION TYPE 1t (1hr RATED) SEE PARTITION LEGEND	
1	REVISION NO. 1	
+ 100.75	EXISTING SPOT ELEVATION	
+ 100.75	FINISHED SPOT ELEVATION	
100	EXISTING CONTOURS	
100	FINISHED CONTOURS	
	PROPERTY LINE	
X	FENCE	
	EXISTING TREE TO REMAIN	
	EXISTING TREE TO BE REMOVED	
	BENCHMARKS: FLOOR ELEV., or OTHER VERTICAL ELEV.	
A	KEYNOTE SYMBOL: DEMOLITION and NEW CONSTRUCTION	
300 / 30" 12" 30"	CASEWORK TAG	
A	ACCESSORY TAG	
W1	WINDOW TAG (TYPE LETTER)	
1i	EQUIPMENT SYMBOL (NUMBER)	
1000-1	DOOR TAG	
1 / A101	VIEW NAME 1/8" = 1'-0"	

DRAWING LIST

GENERAL		
TZHS	G000	COVER
LIFE SAFETY		
TZHS	G100	GROUND FLOOR LIFE SAFETY CODE PLAN
TZHS	G101	FIRST FLOOR LIFE SAFETY CODE PLAN
HAZARDOUS MATERIAL		
TZHS	HZ101	AREA B ASBESTOS ABATEMENT PLAN
TZHS	HZ102	AREA C ASBESTOS ABATEMENT PLAN
TZHS	HZ103	AREA D ASBESTOS ABATEMENT PLAN
STRUCTURAL		
TZHS	S202	RTU FRAMING PLAN AREA B
TZHS	S203	RTU FRAMING PLAN AREA C1 & C2
TZHS	S204	RTU FRAMING PLAN AREA D1 & D2
TZHS	S800	STRUCTURAL NOTES
TZHS	S801	TYPICAL DETAILS
ARCHITECTURAL		
TZHS	A102	AREA B DEMOLITION FLOOR PLAN
TZHS	A103	AREA C DEMOLITION FLOOR PLAN
TZHS	A104	AREA D DEMOLITION FLOOR PLAN
TZHS	A105	AREA E & F DEMOLITION FLOOR PLAN
TZHS	A110	AREA B DEMOLITION ROOF PLAN
TZHS	A111	AREA C DEMOLITION ROOF PLAN
TZHS	A112	AREA D DEMOLITION ROOF PLAN
TZHS	A202	AREA B NEW WORK PLAN
TZHS	A203	AREA C NEW WORK PLAN
TZHS	A204	AREA D NEW WORK PLAN
TZHS	A205	AREA E & F NEW WORK PLAN
TZHS	A210	AREA B NEW WORK ROOF PLAN
TZHS	A211	AREA C NEW WORK ROOF PLAN
TZHS	A212	AREA D NEW WORK ROOF PLAN
TZHS	A601	AREA B & E REFLECTED CEILING PLAN
TZHS	A602	AREA C REFLECTED CEILING PLAN
TZHS	A603	AREA D REFLECTED CEILING PLAN
TZHS	A700	TYPICAL CLASSROOM ELEVATIONS
TZHS	A701	TYPICAL SCIENCE CLASSROOM ELEVATIONS
TZHS	A800	TYPICAL DETAILS
TZHS	A801	MISC. DETAILS
TZHS	A900	DOOR PANELS, FRAME TYPES & SCHEDULES
INTERIORS		
GEN	I000	INTERIORS GENERAL
TZHS	I201	AREA B FINISH FLOOR PLAN
TZHS	I202	AREA C FINISH FLOOR PLAN
TZHS	I203	AREA D FINISH FLOOR PLAN
HVAC		
TZHS	H000	HVAC SYMBOLS LEGEND AND CONTRACTOR NOTES
TZHS	H100	GROUND FLOOR DEMOLITION & NEW WORK PLAN - AREA E
TZHS	H100F	GROUND FLOOR HVAC PIPING DEMOLITION PLAN - AREA F
TZHS	H100G	GROUND FLOOR HVAC PIPING DEMOLITION PLAN - AREA G
TZHS	H101	FIRST FLOOR DEMOLITION PLAN - AREA B
TZHS	H102	FIRST FLOOR DEMOLITION PLAN - AREA C1
TZHS	H103	FIRST FLOOR DEMOLITION PLAN - AREA C2
TZHS	H104	FIRST FLOOR DEMOLITION PLAN - AREA D1
TZHS	H105	FIRST FLOOR DEMOLITION PLAN - AREA D2
TZHS	H111	ROOF DEMOLITION PLAN - AREA B
TZHS	H112	ROOF DEMOLITION PLAN - AREA C
TZHS	H113	ROOF DEMOLITION PLAN - AREA D
TZHS	H201	FIRST FLOOR DUCTWORK PLAN - AREA B
TZHS	H202	FIRST FLOOR DUCTWORK PLAN - AREA C1
TZHS	H203	FIRST FLOOR DUCTWORK PLAN - AREA C2
TZHS	H204	FIRST FLOOR DUCTWORK PLAN - AREA D1
TZHS	H205	FIRST FLOOR DUCTWORK PLAN - AREA D2
TZHS	H211	ROOF DUCTWORK AND PIPING PLANS - AREA B
TZHS	H212	ROOF DUCTWORK AND PIPING PLANS - AREAS C1 AND C2
TZHS	H213	ROOF DUCTWORK AND PIPING PLANS - AREAS D1 AND D2
TZHS	H300F	GROUND FLOOR HVAC PIPING NEW WORK PLAN - AREA F
TZHS	H300G	GROUND FLOOR HVAC PIPING NEW WORK PLAN - AREA G
TZHS	H301	FIRST FLOOR PIPING PLAN - AREA B
TZHS	H302	FIRST FLOOR PIPING PLAN - AREA C1
TZHS	H303	FIRST FLOOR PIPING PLAN - AREA C2
TZHS	H304	FIRST FLOOR PIPING PLAN - AREA D1
TZHS	H305	FIRST FLOOR PIPING PLAN - AREA D2
TZHS	H500	MECHANICAL CONTROLS
TZHS	H501	MECHANICAL CONTROLS
TZHS	H502	MECHANICAL CONTROLS
TZHS	H600	VRF PIPING DIAGRAM
TZHS	H601	VRF PIPING DIAGRAM

DRAWING LIST

TZHS	H700	BOILER ROOM ENLARGED DEMOLITION PLAN
TZHS	H701	BOILER ROOM ENLARGED NEW WORK PLANS
TZHS	H702	BOILER ROOM SECTION VIEWS
TZHS	H703	BOILER ROOM ISOMETRICS
TZHS	H800	DETAILS
TZHS	H801	DETAILS
TZHS	H802	DETAILS
TZHS	H900	HVAC SCHEDULES
TZHS	H901	HVAC SCHEDULES
TZHS	H902	HVAC SCHEDULES
TZHS	H903	HVAC SCHEDULES
PLUMBING		
TZHS	P000	PLUMBING LEGEND, NOTES, & DETAILS
TZHS	P101	FIRST FLOOR DEMOLITION PLAN - AREA C2 & D2
TZHS	P201	INSTALL PLAN - AREA C2 & F
ELECTRICAL		
TZHS	E000	ELECTRICAL SYMBOLS LEGEND, NOTES & SYSTEM DIAGRAMS
TZHS	E101	FIRST FLOOR ELECTRICAL DEMOLITION PLAN - AREA B
TZHS	E102	FIRST FLOOR ELECTRICAL DEMOLITION PLAN - AREA C1 AND C2
TZHS	E103	FIRST FLOOR ELECTRICAL DEMOLITION PLAN - AREA D1 AND D2
TZHS	E104	GROUND FLOOR ELECTRICAL DEMOLITION PLAN - AREA F
TZHS	E105	GROUND FLOOR ELECTRICAL DEMOLITION PLAN - AREA G
TZHS	E111	ROOF ELECTRICAL DEMOLITION PLAN - AREA B
TZHS	E112	ROOF ELECTRICAL DEMOLITION PLAN - AREA C1 AND C2
TZHS	E113	ROOF ELECTRICAL DEMOLITION PLAN - AREA D1 AND D2
TZHS	E201	FIRST FLOOR ELECTRICAL NEW WORK PLAN - AREA B
TZHS	E202	FIRST FLOOR ELECTRICAL NEW WORK PLAN - AREA C1 AND C2
TZHS	E203	FIRST FLOOR ELECTRICAL NEW WORK PLAN - AREA D1 AND D2
TZHS	E204	GROUND FLOOR DEMOLITION & NEW WORK PLAN - AREA E
TZHS	E205	GROUND FLOOR ELECTRICAL NEW WORK PLAN - AREA F
TZHS	E211	ROOF ELECTRICAL NEW WORK PLAN - AREA B
TZHS	E212	ROOF ELECTRICAL NEW WORK PLAN - AREA C1 AND C2
TZHS	E213	ROOF ELECTRICAL NEW WORK PLAN - AREA D1 AND D2
TZHS	E301	FIRST FLOOR LIGHTING PLAN - AREA B
TZHS	E302	FIRST FLOOR LIGHTING PLAN - AREA C1 AND C2
TZHS	E303	FIRST FLOOR LIGHTING PLAN - AREA D1 AND D2
TZHS	E304	GROUND FLOOR ELECTRICAL LIGHTING PLAN - AREA E
TZHS	E900	ELECTRICAL SCHEDULES
TZHS	E901	ELECTRICAL SCHEDULES
TZHS	E902	ELECTRICAL SCHEDULES
TECH & SECURITY		
TZHS	T000	SYMBOLS AND ABBREVIATIONS
TZHS	T001	KEY PLAN
TZHS	T100	FIRST FLOOR DEMOLITION PLAN - AREA B
TZHS	T101	FIRST FLOOR DEMOLITION PLAN - AREA C
TZHS	T102	FIRST FLOOR DEMOLITION PLAN - AREA D
TZHS	T200	FIRST FLOOR NEW WORK PLAN - AREA B
TZHS	T201	FIRST FLOOR NEW WORK PLAN - AREA C
TZHS	T202	FIRST FLOOR NEW WORK PLAN - AREA D
TZHS	T700	DETAILS
TZHS	T701	DETAILS
TZHS	T702	DETAILS

TAPPAN ZEE HIGH SCHOOL
15 DUTCH HILL ROAD,
ORANGEBURG, NEW YORK 10962

TRUE NORTH

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NY ENGINEERING FIRM CERTIFICATE #0021419

PROJECT INFORMATION

Project Number
R22.14457.20

Client Name
SOUTH ORANGETOWN CENTRAL SCHOOL DISTRICT

Project Name
PHASE 2: 2022 BOND

TAPPAN ZEE HIGH SCHOOL

Building Address
15 DUTCH HILL ROAD, ORANGEBURG, NY 10962

SED # 50-03-01-06-0-006-033

Registration Expiration Dates
Lauren Tarsio 09/30/26
Anthony Marchetti 05/31/27
Dave Hart 02/28/25
Jennifer Wengender 06/30/27

PROJECT ISSUE & REVISION SCHEDULE

#	Date	Description

PROFESSIONAL STAMPS

NEW YORK STATE EDUCATION STATEMENT

IT IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND THE COMMISSIONER'S REGULATIONS FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED ARCHITECT, ENGINEER OR SURVEYOR, TO ALTER ANY ITEM IN ANY WAY ON ANY PLAN BEARING THE SEAL OF AN ARCHITECT, ENGINEER OR SURVEYOR IS ALTERED, THE ALTERING PARTY SHALL AFFIX TO THE ITEM THEIR SEAL AND THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE AND THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

SHEET INFORMATION

Issued	Scale
10/25/2024	12" = 1'-0"

Project Status
BID DOCUMENTS

Drawn By	Checked By
CJD	LT

Drawing Title
COVER

Drawing Number
TZHS G000

CLASSIFICATION OF WORK KEY

	EXISTING CONSTRUCTION TO REMAIN
	AREAS OF ALTERATION - LEVEL 1
	AREAS OF ALTERATION - LEVEL 2

LIFE SAFETY SYMBOL LEGEND

AE	ACCESSIBLE BUILDING ENTRANCE
EXIT	EXIT
EFE	EXISTING FIRE EXTINGUSHER
ED	EXIT DISCHARGE
ROOM NAME 101 2000 SF 100 SF 100 OCC	ROOM NAME ROOM NUMBER ROOM AREA OCCUPANT LOAD FACTOR OCCUPANT LOAD
STAIR 60" 100 200	PROVIDED WIDTH ANTICIPATED LOAD LOAD CAPACITY
DOOR 36" 100 180	CLEAR WIDTH ANTICIPATED LOAD LOAD CAPACITY
RW	RESCUE WINDOW

LIFE SAFETY SYMBOL LEGEND

	1 HOUR RATED FIRE PARTITION
	1 HOUR RATED FIRE BARRIER
	2 HOUR RATED FIRE BARRIER
X'-XX"	TRAVEL DISTANCE TO EXIT
	EGRESS PATH

CODE SUMMARY

BUILDING OCCUPANCY: E, EDUCATIONAL

CONSTRUCTION CLASSIFICATION: TYPE IIB

BUILDING HEIGHT & AREA LIMITATIONS:

NON SPRINKLERED BUILDING

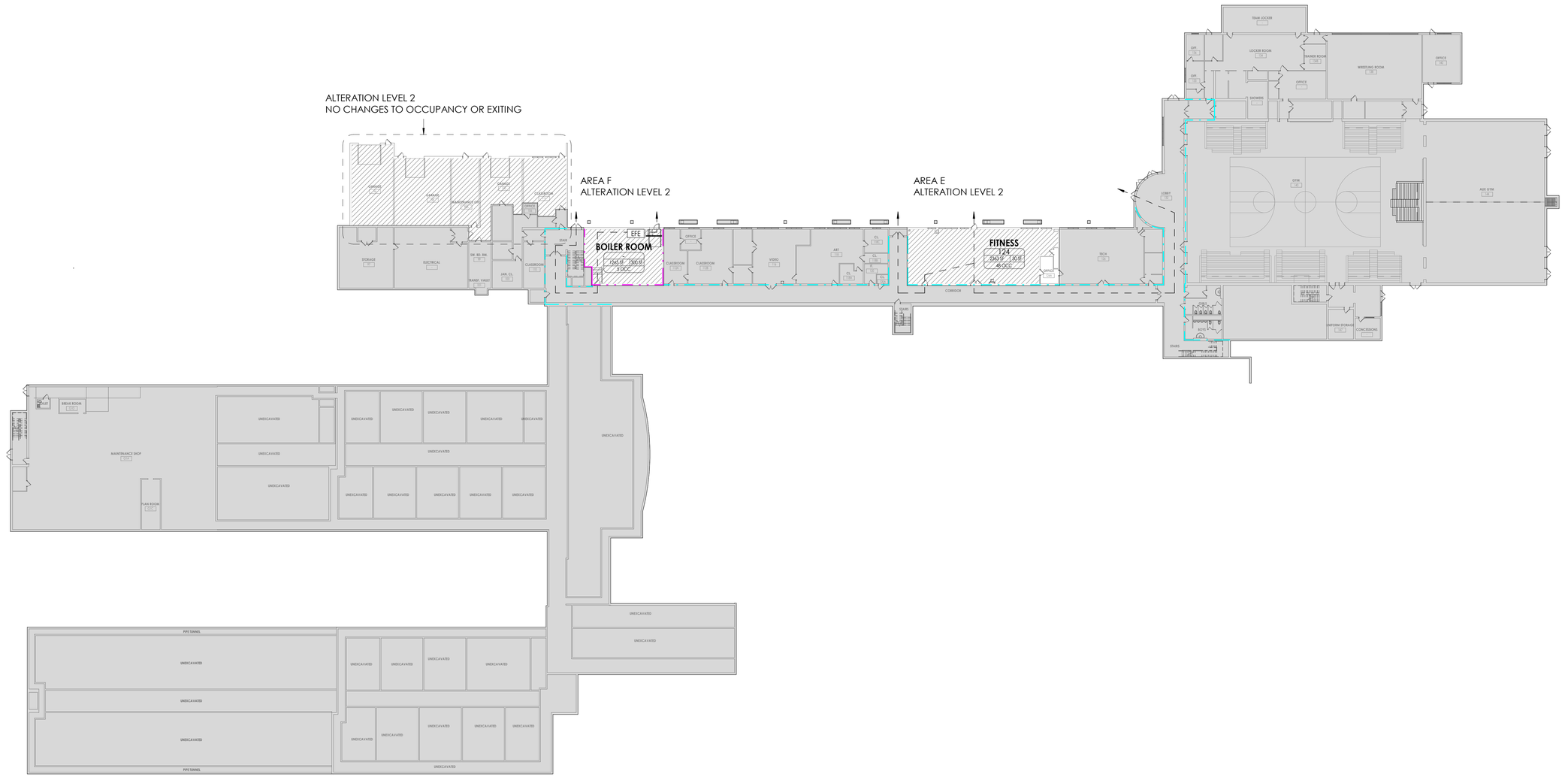
NO CHANGE TO BUILDING AREA

NO CHANGE TO OCCUPANCY OR EGRESS

ALTERATION LEVEL 2
NO CHANGES TO OCCUPANCY OR EXITING

AREA F
ALTERATION LEVEL 2

AREA E
ALTERATION LEVEL 2



1 / G100 **GROUND FLOOR PLAN LIFE SAFETY PLAN**
1" = 30'-0"

TRUE NORTH

10/25/2024 10:14:11 AM <project location> REVIT PROJECT FILES ON BIM 360

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CPLteam.com

NY ENGINEERING FIRM CERTIFICATE #0021419

SOUTH ORANGETOWN Central School District
Capital Improvements Bond
Essential Infrastructure for Student Health, Safety and Success

PROJECT INFORMATION

Project Number
R22.14457.20

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SHEET INFORMATION

Issued
10/25/2024

Scale
As indicated

Project Status
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Drawn By
CJD

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LT

Drawing Title
GROUND FLOOR LIFE SAFETY CODE PLAN

Drawing Number
TZHS
G100

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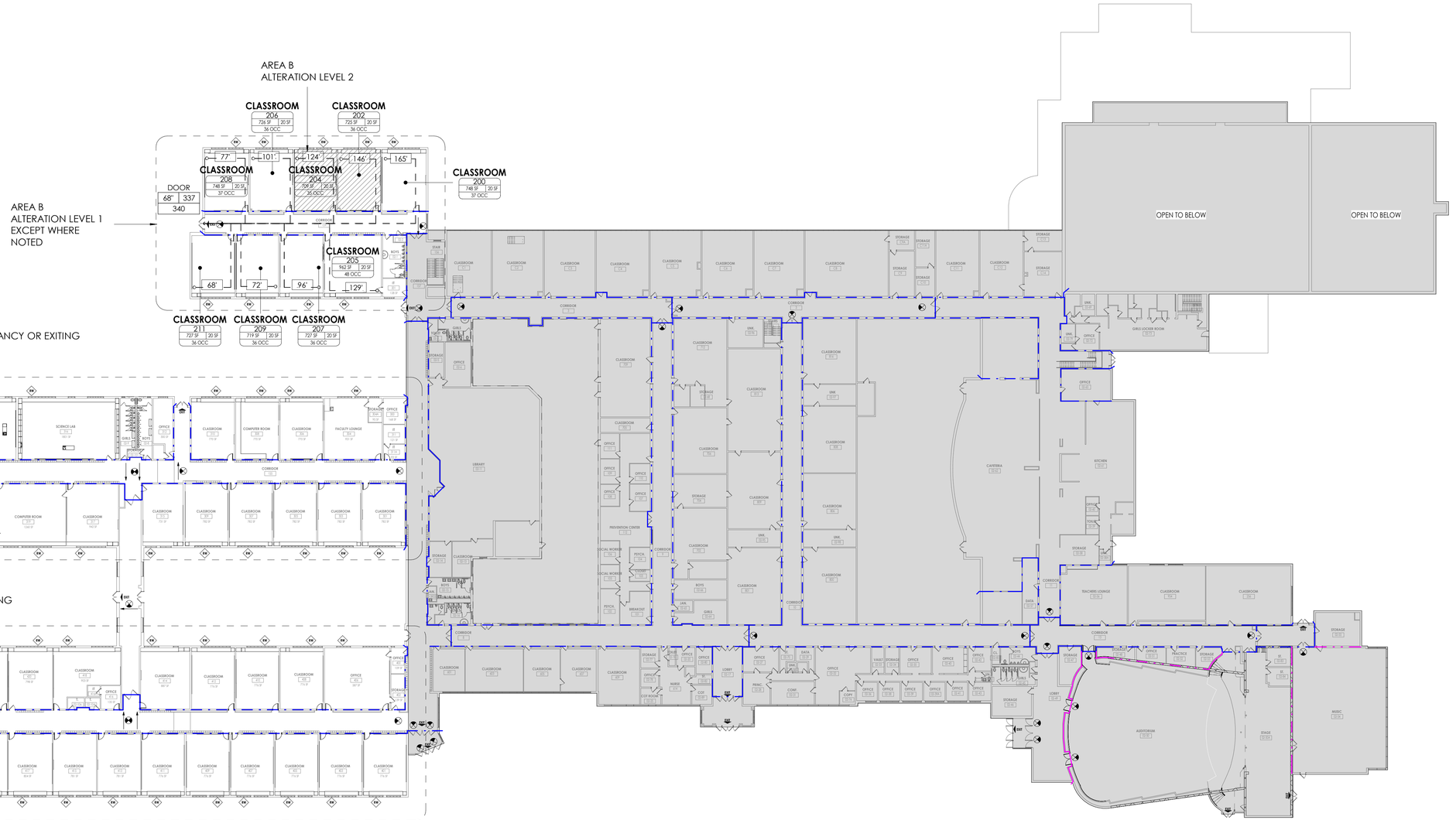

FIRST FLOOR LIFE SAFETY PLAN

1" = 30'-0"

1 G101

TRUE NORTH

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NY ENGINEERING FIRM CERTIFICATE #0021419

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10/25/2024	As indicated

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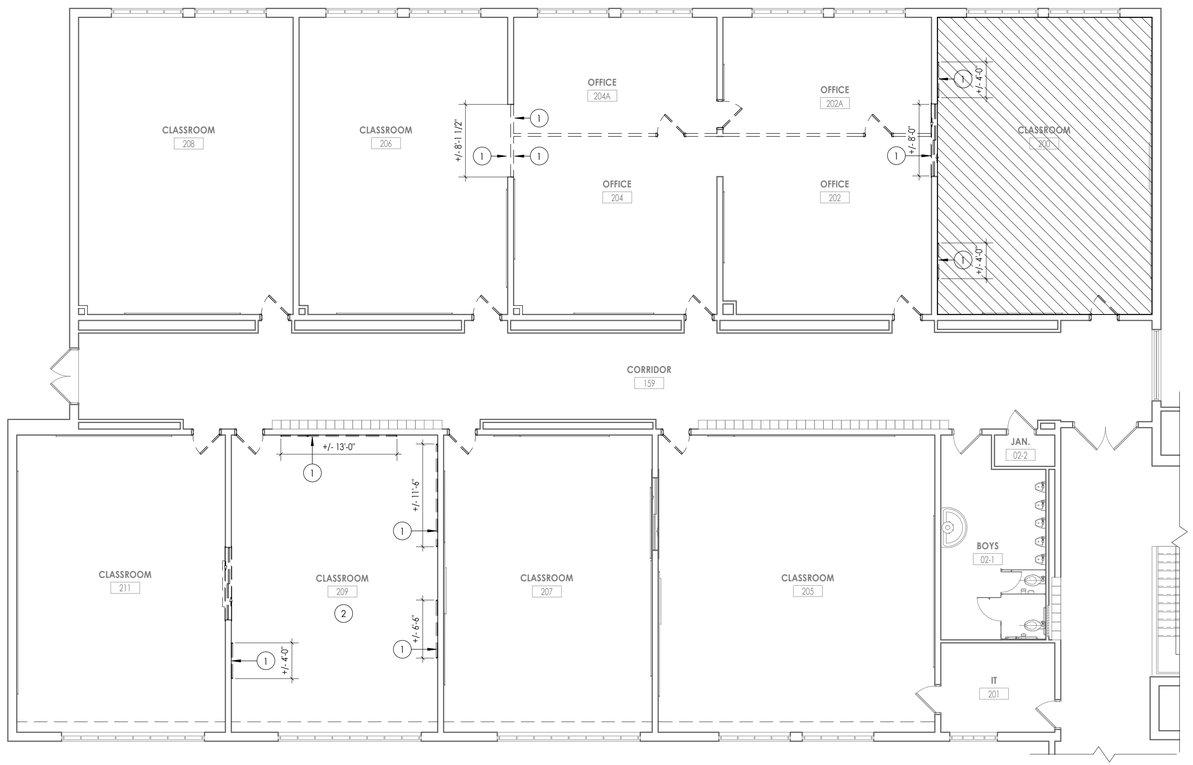
BID DOCUMENTS

Drawn By	Checked By
CJD	LT

Drawing Title
FIRST FLOOR LIFE SAFETY CODE PLAN

Drawing Number
TZHS
G101



1 HZ101 **AREA B - ASBESTOS ABATEMENT PLAN**

1/8" = 1'-0"

ASBESTOS ABATEMENT GENERAL NOTES

1. ALL DRAWINGS ARE A GRAPHIC REPRESENTATION OF APPROXIMATE LOCATIONS OF EXISTING AND NEW MATERIALS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY ALL EXISTING CONDITIONS, QUANTITIES AND DIMENSIONS PRIOR TO COMMENCEMENT OF WORK.
2. THE ABATEMENT PLAN NOTES LIST INDICATED BELOW MAY, OR MAY NOT, BE INDICATED ON THE ABATEMENT PLAN(S) ON THIS DRAWING SHEET.
3. ABATEMENT PLAN NOTES THAT POINT TO A SPECIFIC ITEM INDICATES ABATEMENT OF THAT ITEM. ABATEMENT PLAN NOTES THAT DO NOT POINT TO A SPECIFIC ITEM INDICATES ABATEMENT WITHIN THE ENTIRE ROOM, CORRIDOR, ETC.
4. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE PROJECT SPECIFICATION, OSHA 29 CFR 1926.1101, USEPA 40 CFR PART 763 AND 40 CFR PART 61 - SUB PART M, NYS INDUSTRIAL CODE RULE 56 AND ANY APPROPRIATE APPLICABLE AND/OR SITE SPECIFIC VARIANCES.
5. THE LOCATION OF ANY ON-SITE STORAGE OF MATERIALS, EQUIPMENT, DECONTAMINATION FACILITIES AND DUMPSTER/WASTE TRAILER SHALL BE COORDINATED WITH AND APPROVED BY THE OWNER'S REPRESENTATIVE AND ARCHITECT.
6. WHERE APPLICABLE, CONTRACTOR SHALL ENSURE ALL ELECTRICAL CIRCUITS WITHIN THEIR WORK AREAS ARE PROPERLY LOCKED/TAGGED IN ACCORDANCE WITH OSHA 29 CFR 1926.417.
7. ANY QUANTITIES PROVIDED ON THE DRAWINGS ARE FOR BIDDING PURPOSES ONLY. THE CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING ALL JOB CONDITIONS AND MATERIAL QUANTITIES PRIOR TO BIDDING.
8. ALL WORK ASSOCIATED WITH ASBESTOS ABATEMENT PLAN NOTES 5, 7 AND 8 SHALL BE PERFORMED IN ACCORDANCE WITH ASBESTOS VARIANCE FILE 22-0534 AS APPENDED TO SECTION 028213 - ASBESTOS REMEDIATION.

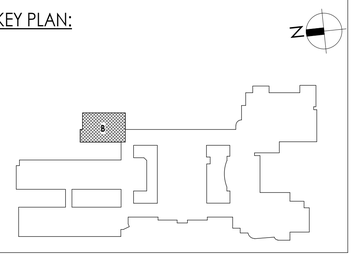
ASBESTOS ABATEMENT NOTES

REMOVE VINYL ASBESTOS FLOOR TILE, WALL BASE, AND MASTIC DOWN TO CONCRETE SUBSTRATE.

(1) REMOVE WALL MOUNTED BOARD AND ASBESTOS CONTAINING GLUE DOTS BY ABATEMENT

(2) REMOVE APPLIED WOOD WALL PANELING, TRIM AND BASE BY ABATEMENT, DOWN TO PLASTER BELOW. FULL EXTENT OF ROOM.

KEY PLAN:



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CPLeam.com
NY ENGINEERING FIRM CERTIFICATE #0021419

SOUTH ORANGETOWN Central School District
Capital Improvements Bond
Essential Infrastructure for Student Health, Safety and Success

PROJECT INFORMATION

Project Number
R22.14457.20

Client Name
SOUTH ORANGETOWN CENTRAL SCHOOL DISTRICT

Project Name
PHASE 2: 2022 BOND

TAPPAN ZEE HIGH SCHOOL

Building Address
15 DUTCH HILL ROAD, ORANGEBURG, NY 10962

SED # 50-03-01-06-0-006-033

Registration Expiration Dates
Lauren Tanio 09/30/26
Anthony Marchetti 05/31/27
Dave Hart 02/28/25
Jennifer Wengender 06/30/27

PROJECT ISSUE & REVISION SCHEDULE

#	Date	Description

PROFESSIONAL STAMPS

NEW YORK STATE EDUCATION STATEMENT

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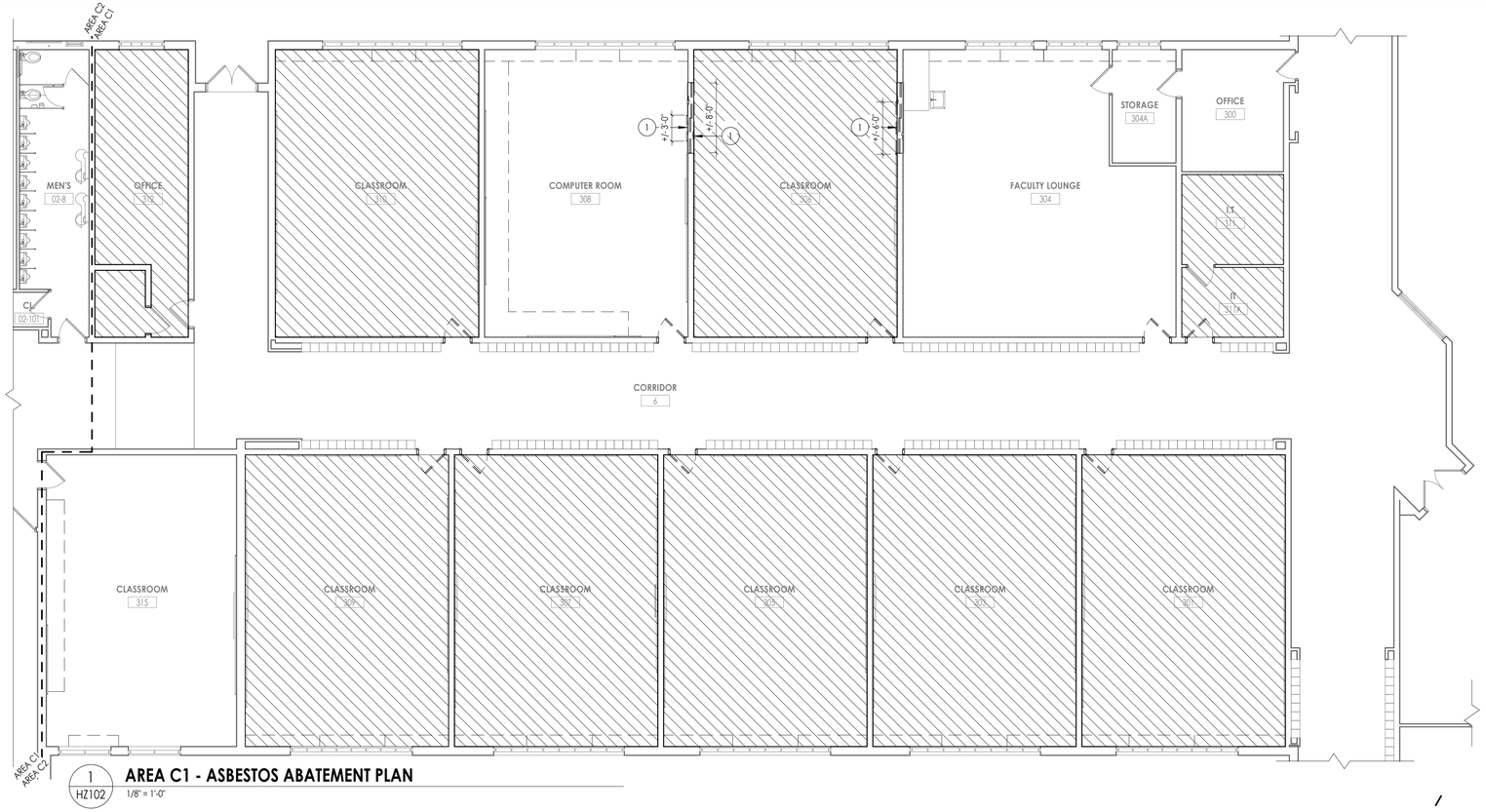
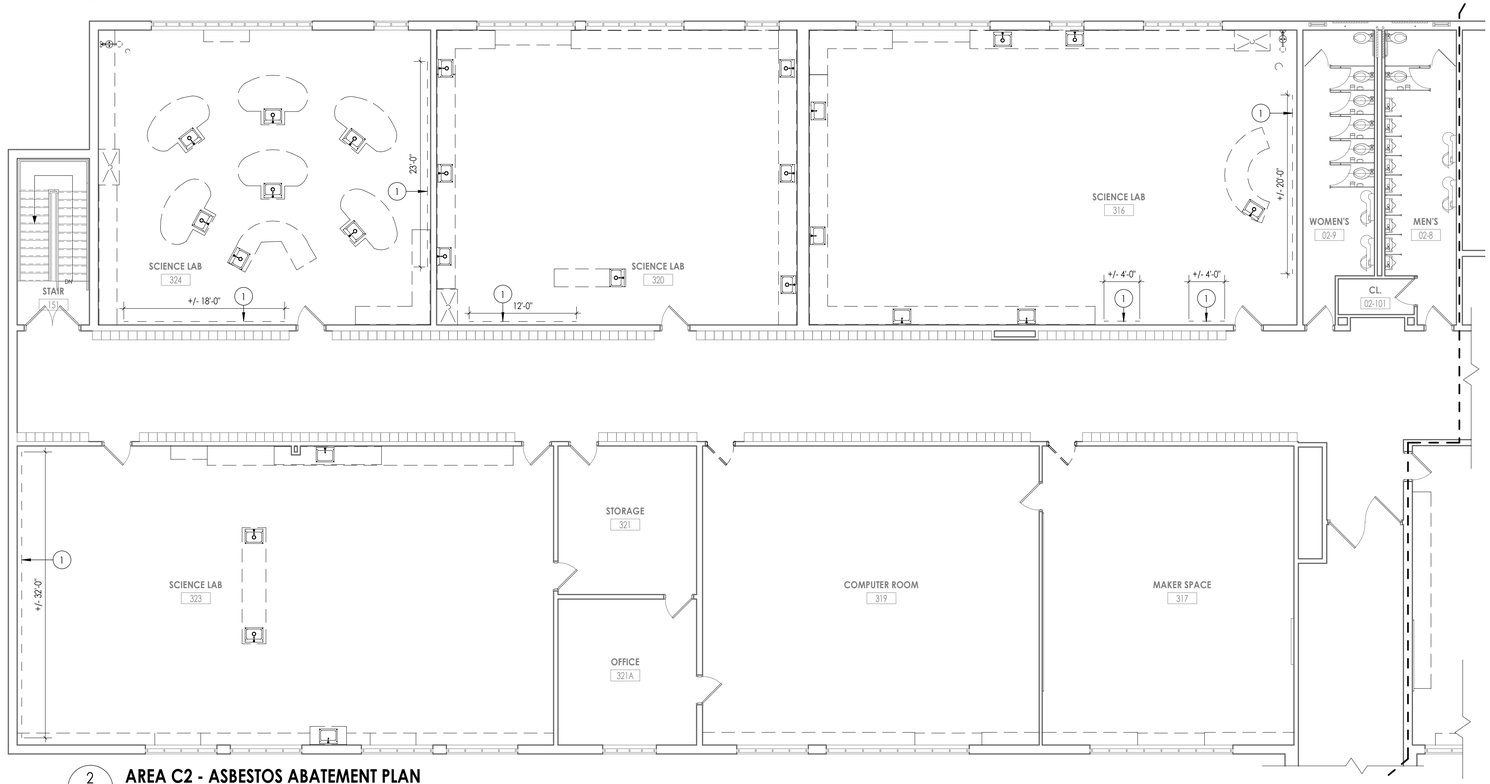
SHEET INFORMATION

Issued: 10/25/2024
Scale: As indicated
Project Status: BID DOCUMENTS
Drawn By: CJD
Checked By: LT
Drawing Title: AREA B ASBESTOS ABATEMENT PLAN
Drawing Number: TZHS HZ101



1 HZ102 **AREA C1 - ASBESTOS ABATEMENT PLAN**

1/8" = 1'-0"



2 HZ102 **AREA C2 - ASBESTOS ABATEMENT PLAN**

1/8" = 1'-0"

ASBESTOS ABATEMENT GENERAL NOTES

1. ALL DRAWINGS ARE A GRAPHIC REPRESENTATION OF APPROXIMATE LOCATIONS OF EXISTING AND NEW MATERIALS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY ALL EXISTING CONDITIONS, QUANTITIES AND DIMENSIONS PRIOR TO COMMENCEMENT OF WORK.
2. THE ABATEMENT PLAN NOTES LIST INDICATED BELOW MAY, OR MAY NOT, BE INDICATED ON THE ABATEMENT PLAN(S) ON THIS DRAWING SHEET.
3. ABATEMENT PLAN NOTES THAT POINT TO A SPECIFIC ITEM INDICATES ABATEMENT OF THAT ITEM. ABATEMENT PLAN NOTES THAT DO NOT POINT TO A SPECIFIC ITEM INDICATES ABATEMENT WITHIN THE ENTIRE ROOM, CORRIDOR, ETC.
4. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE PROJECT SPECIFICATION, OSHA 29 CFR 1926.1101, USEPA 40 CFR PART 763 AND 40 CFR PART 61 - SUB PART M, NYS INDUSTRIAL CODE RULE 56 AND ANY APPROPRIATE APPLICABLE AND/OR SITE SPECIFIC VARIANCES.
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7. ANY QUANTITIES PROVIDED ON THE DRAWINGS ARE FOR BIDDING PURPOSES ONLY. THE CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING ALL JOB CONDITIONS AND MATERIAL QUANTITIES PRIOR TO BIDDING.
8. ALL WORK ASSOCIATED WITH ASBESTOS ABATEMENT PLAN NOTES 5, 7 AND 8 SHALL BE PERFORMED IN ACCORDANCE WITH ASBESTOS VARIANCE FILE 22-0534 AS APPENDED TO SECTION 028213 - ASBESTOS REMEDIATION.

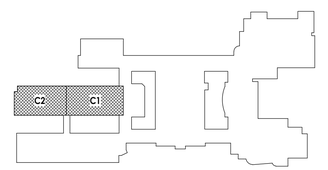
ASBESTOS ABATEMENT NOTES

REMOVE VINYL ASBESTOS FLOOR TILE, WALL BASE, AND MASTIC DOWN TO CONCRETE SUBSTRATE.

(1) REMOVE WALL MOUNTED BOARD AND ASBESTOS CONTAINING GLUE DOTS BY ABATEMENT

(2) REMOVE APPLIED WOOD WALL PANELING, TRIM AND BASE BY ABATEMENT, DOWN TO PLASTER BELOW. FULL EXTENT OF ROOM.

KEY PLAN:



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NY ENGINEERING FIRM CERTIFICATE #0021419

SOUTH ORANGETOWN Central School District
Capital Improvements Bond
Essential Infrastructure for Student Health, Safety and Success

PROJECT INFORMATION

Project Number
R22.14457.20

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Project Name
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SED # 50-03-01-06-0-006-033

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Jennifer Wengender 06/30/27

PROJECT ISSUE & REVISION SCHEDULE

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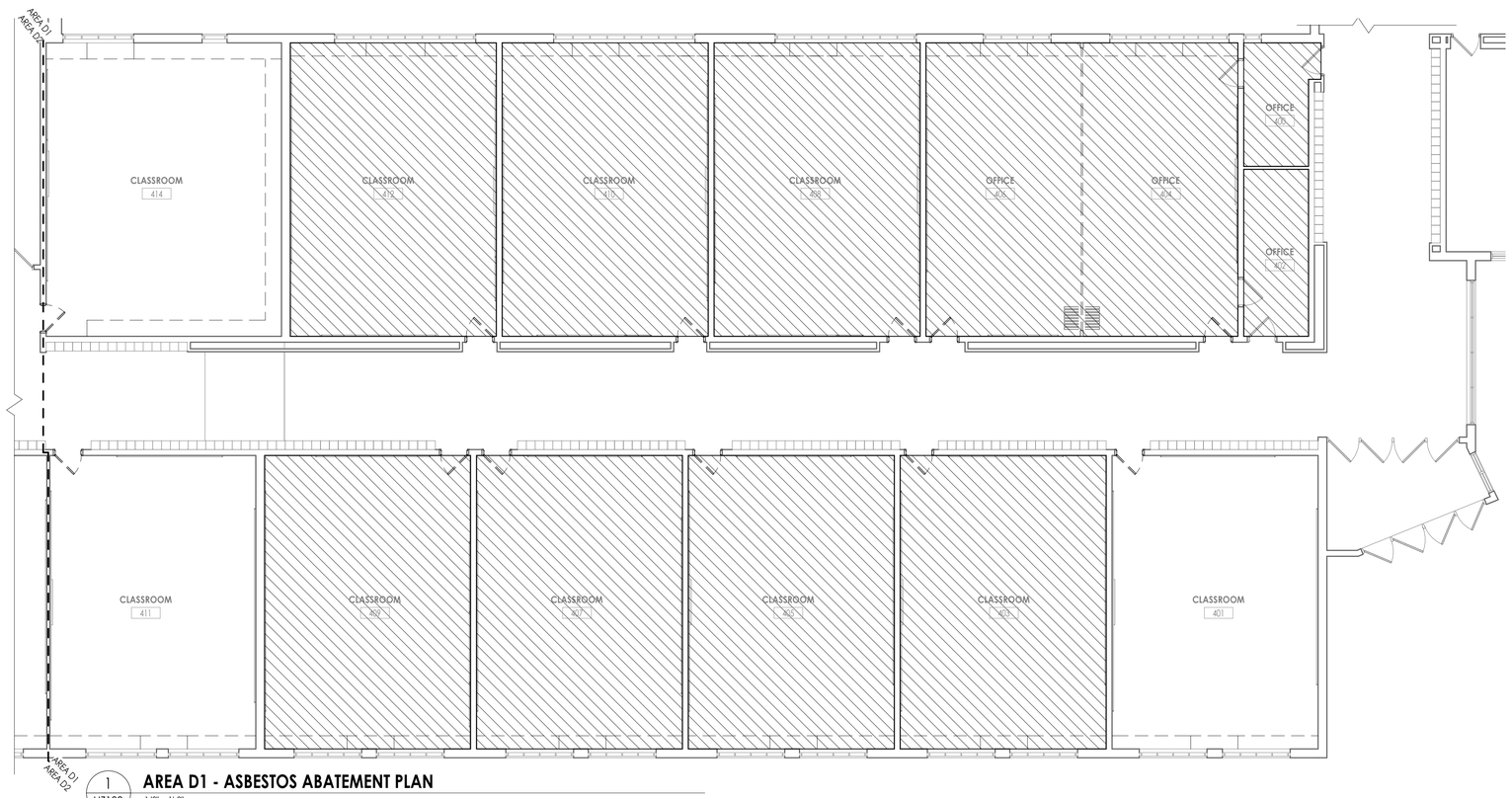
SHEET INFORMATION

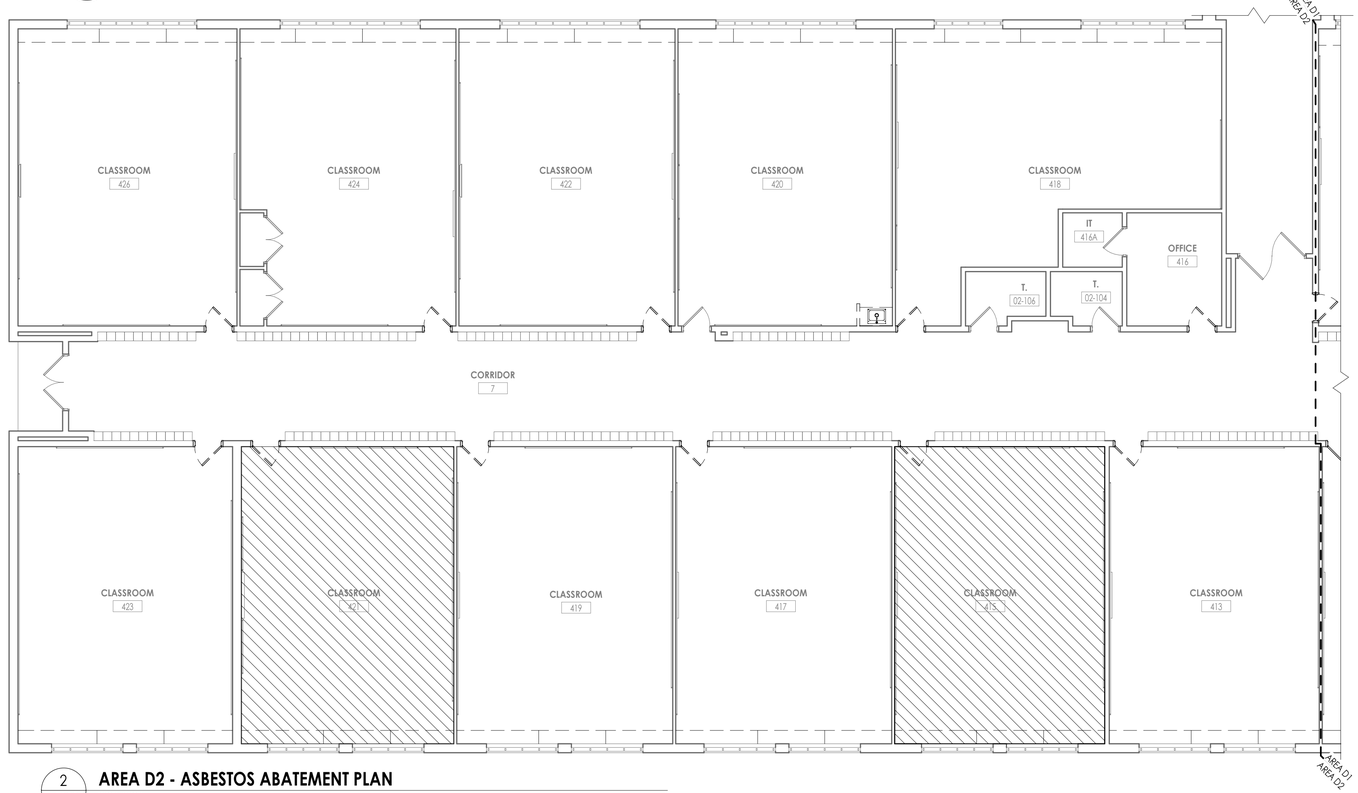
Issued: 10/25/2024
Scale: As indicated
Project Status: BID DOCUMENTS
Drawn By: CJD
Checked By: LT
Drawing Title: AREA C ASBESTOS ABATEMENT PLAN
Drawing Number: TZHS HZ102



1 HZ103

AREA D1 - ASBESTOS ABATEMENT PLAN

1/8" = 1'-0"



2 HZ103

AREA D2 - ASBESTOS ABATEMENT PLAN

1/8" = 1'-0"

ASBESTOS ABATEMENT GENERAL NOTES

1. ALL DRAWINGS ARE A GRAPHIC REPRESENTATION OF APPROXIMATE LOCATIONS OF EXISTING AND NEW MATERIALS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY ALL EXISTING CONDITIONS, QUANTITIES AND DIMENSIONS PRIOR TO COMMENCEMENT OF WORK.
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(2) REMOVE APPLIED WOOD WALL PANELING, TRIM AND BASE BY ABATEMENT, DOWN TO PLASTER BELOW. FULL EXTENT OF ROOM.

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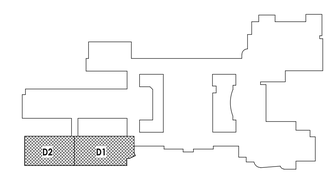

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NY ENGINEERING FIRM CERTIFICATE #0021419

SOUTH ORANGETOWN Central School District
Capital Improvements Bond
Essential Infrastructure for Student Health, Safety and Success

PROJECT INFORMATION

Project Number
R22.14457.20

Client Name
SOUTH ORANGETOWN CENTRAL SCHOOL DISTRICT

Project Name
PHASE 2: 2022 BOND

TAPPAN ZEE HIGH SCHOOL

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SED # 50-03-01-06-0-006-033

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Jennifer Wengender 06/30/27

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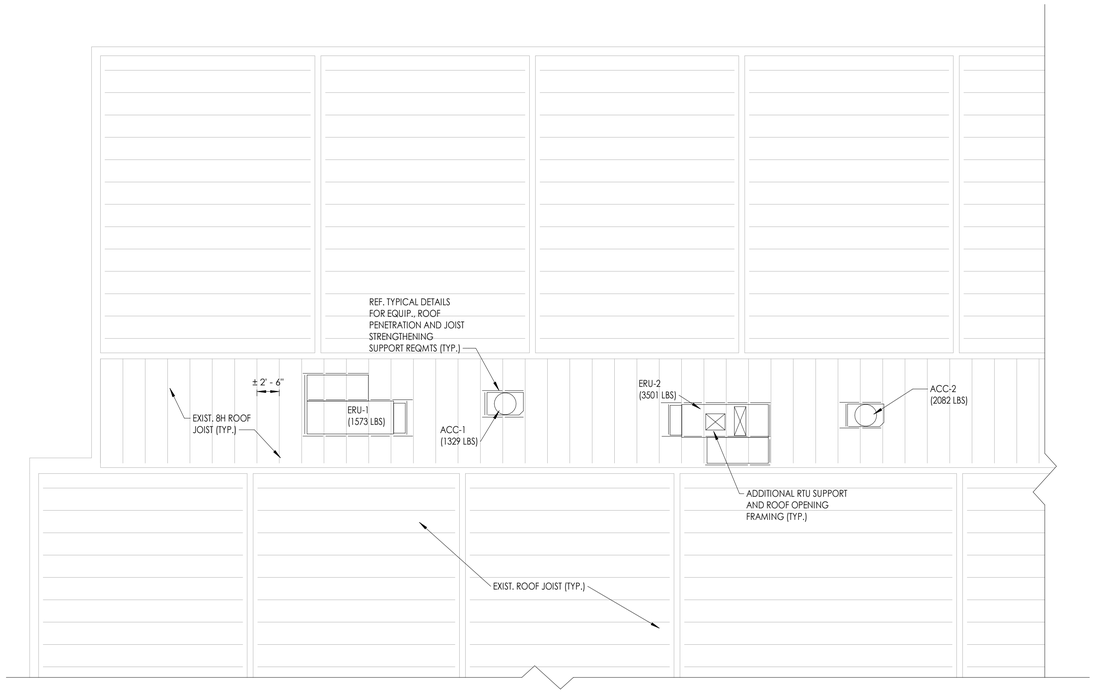
SHEET INFORMATION

Issued: 10/25/2024
Scale: As indicated
Project Status: BID DOCUMENTS
Drawn By: CJD
Checked By: LT
Drawing Title: AREA D ASBESTOS ABATEMENT PLAN

Drawing Number
TZHS
HZ103



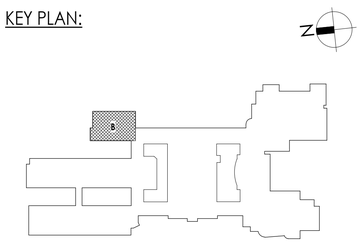
1 S202 **RTU FRAMING PLAN AREA B**

1/8" = 1'-0"

ROOF FRAMING PLAN NOTES

1. TOP OF STEEL/BOTTOM OF DECK ELEVATION MATCH EXISTING STRUCTURAL, UNLESS NOTED OTHERWISE.
2. CONTRACTOR SHALL VERIFY ROOFTOP UNIT WEIGHTS IF SHOWN WITH EQUIPMENT MANUFACTURER. CONTRACTOR TO NOTIFY ENGINEER PRIOR TO INSTALLING ROOFTOP UNITS IF TOTAL UNIT OPERATING WEIGHT EXCEEDS VALUE LISTED ON PLAN.
3. REFER TO ARCHITECTURAL, MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS FOR PENETRATIONS NOT SHOWN, AND ALL LOCATIONS SEE TYPICAL DETAILS FOR ADDITIONAL REINFORCEMENT REQUIREMENTS AT OPENINGS. CONTRACTOR TO COORDINATE.

KEY PLAN:



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NY ENGINEERING FIRM CERTIFICATE #0021419

SOUTH ORANGETOWN Central School District
Capital Improvements Bond
Essential Infrastructure for Student Health, Safety and Success

PROJECT INFORMATION

Project Number
R22.14457.20

Client Name
SOUTH ORANGETOWN CENTRAL SCHOOL DISTRICT

Project Name
PHASE 2: 2022 BOND

TAPPAN ZEE HIGH SCHOOL

Building Address
15 DUTCH HILL ROAD, ORANGEBURG, NY 10962

SED # 50-03-01-06-0-006-033

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Jennifer Wengender 06/30/27

PROJECT ISSUE & REVISION SCHEDULE

#	Date	Description

PROFESSIONAL STAMPS

SHEET INFORMATION

Issued
10/25/2024

Scale
As indicated

Project Status
BID DOCUMENTS

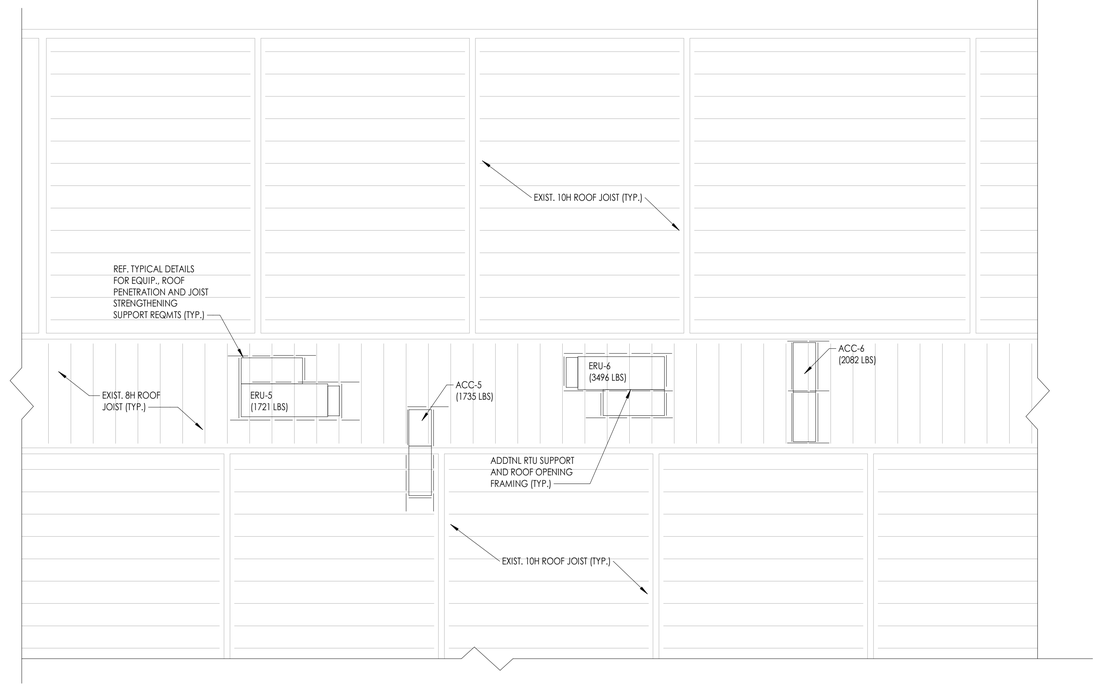
Drawn By
WKC

Checked By
LDW

Drawing Title
RTU FRAMING PLAN AREA B

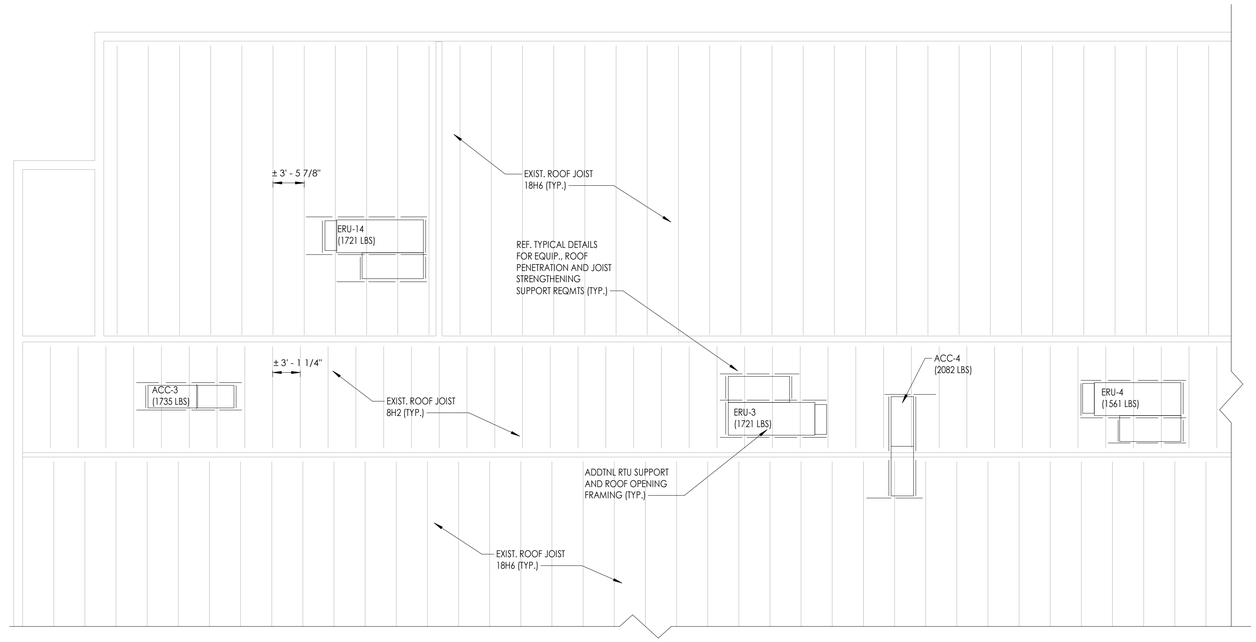
Drawing Number
TZHS
S202

10/24/2024 2:15:38 P.M. <project location>\D Design



1 S203 **RTU FRAMING PLAN AREA C1**

1/8" = 1'-0"



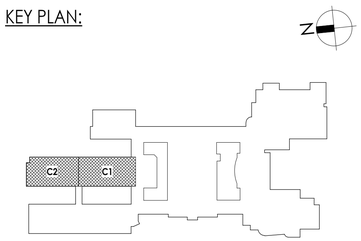
2 S203 **RTU FRAMING PLAN AREA C2**

1/8" = 1'-0"

ROOF FRAMING PLAN NOTES

1. TOP OF STEEL/BOTTOM OF DECK ELEVATION MATCH EXISTING STRUCTURAL, UNLESS NOTED OTHERWISE.
2. CONTRACTOR SHALL VERIFY ROOFTOP UNIT WEIGHTS IF SHOWN WITH EQUIPMENT MANUFACTURER. CONTRACTOR TO NOTIFY ENGINEER PRIOR TO INSTALLING ROOFTOP UNITS IF TOTAL UNIT OPERATING WEIGHT EXCEEDS VALUE LISTED ON PLAN.
3. REFER TO ARCHITECTURAL, MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS FOR PENETRATIONS NOT SHOWN, AND ALL LOCATIONS SEE TYPICAL DETAILS FOR ADDITIONAL REINFORCEMENT REQUIREMENTS AT OPENINGS. CONTRACTOR TO COORDINATE.

KEY PLAN:



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CPLteam.com

NY ENGINEERING FIRM CERTIFICATE #0021419

SOUTH ORANGETOWN Central School District
Capital Improvements Bond
Essential Infrastructure for Student Health, Safety and Success

PROJECT INFORMATION

Project Number
R22.14457.20

Client Name
SOUTH ORANGETOWN CENTRAL SCHOOL DISTRICT

Project Name
PHASE 2: 2022 BOND

TAPPAN ZEE HIGH SCHOOL

Building Address
15 DUTCH HILL ROAD, ORANGEBURG, NY 10962

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Lauren Tonio 09/30/26
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Jennifer Wengender 06/30/27

PROJECT ISSUE & REVISION SCHEDULE

#	Date	Description

PROFESSIONAL STAMPS

SHEET INFORMATION

Issued
10/25/2024

Scale
As indicated

Project Status
BID DOCUMENTS

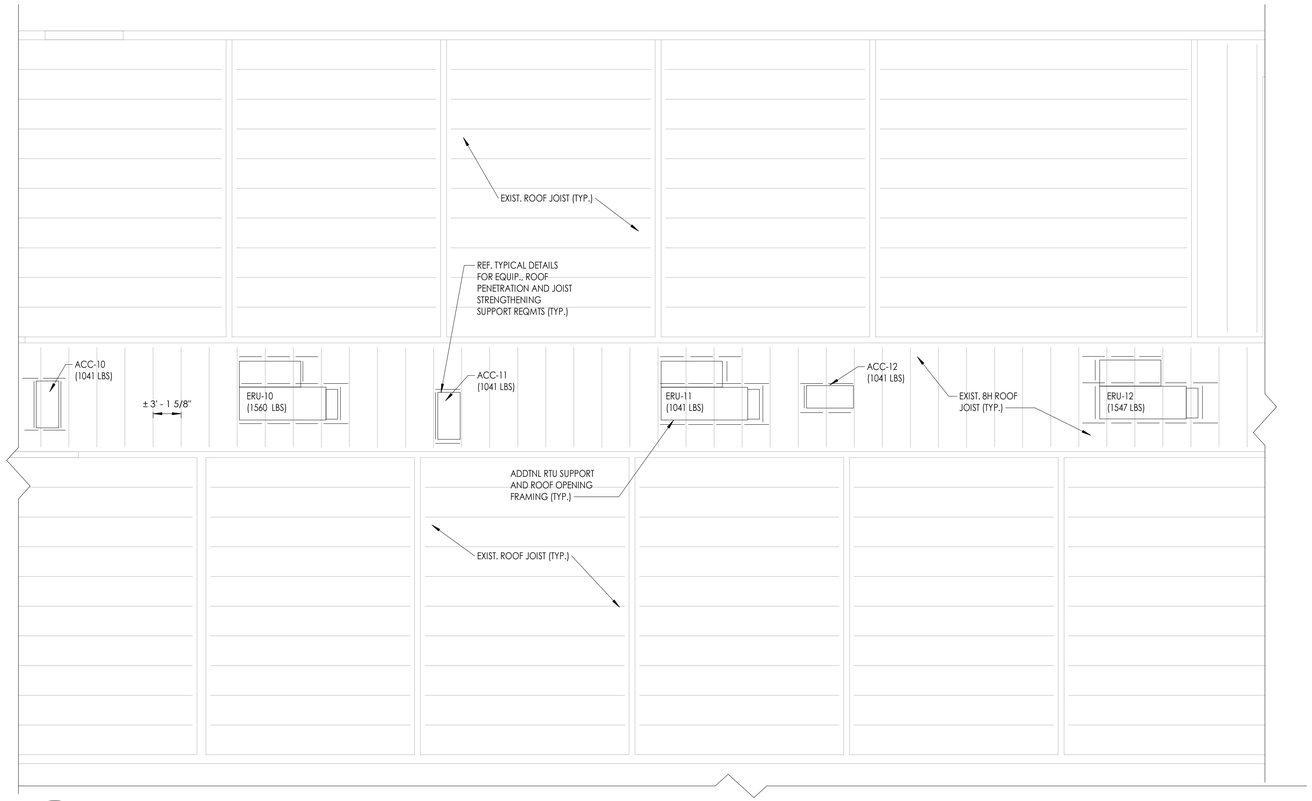
Drawn By
WKC

Checked By
LDW

Drawing Title
RTU FRAMING PLAN AREA C1 & C2

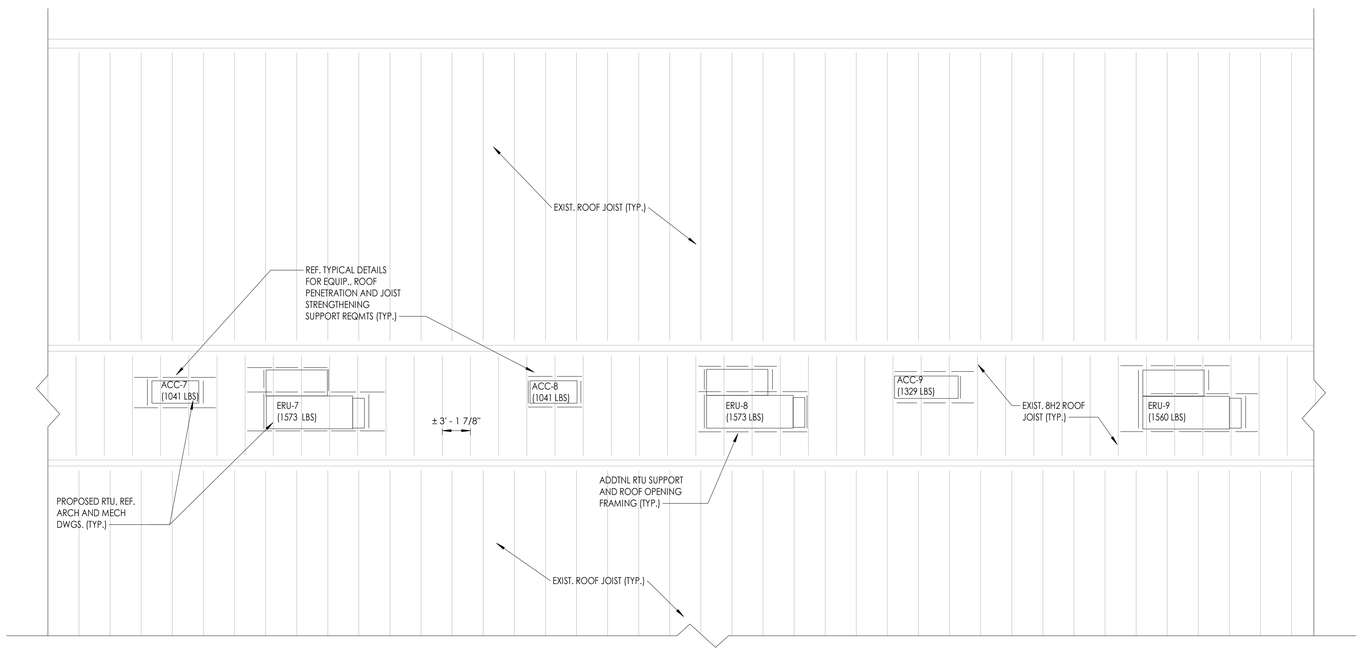
Drawing Number
TZHS
S203

10/24/2024 1:58:30 PM <project location>\D Design



1 S204 **RTU FRAMING PLAN AREA D1**

1/8" = 1'-0"



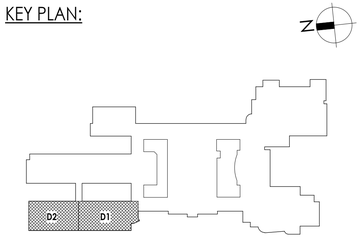
2 S204 **RTU FRAMING PLAN AREA D2**

1/8" = 1'-0"

ROOF FRAMING PLAN NOTES

1. TOP OF STEEL/BOTTOM OF DECK ELEVATION MATCH EXISTING STRUCTURAL, UNLESS NOTED OTHERWISE.
2. CONTRACTOR SHALL VERIFY ROOFTOP UNIT WEIGHTS IF SHOWN WITH EQUIPMENT MANUFACTURER. CONTRACTOR TO NOTIFY ENGINEER PRIOR TO INSTALLING ROOFTOP UNITS IF TOTAL UNIT OPERATING WEIGHT EXCEEDS VALUE LISTED ON PLAN.
3. REFER TO ARCHITECTURAL, MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS FOR PENETRATIONS NOT SHOWN, AND ALL LOCATIONS SEE TYPICAL DETAILS FOR ADDITIONAL REINFORCEMENT REQUIREMENTS AT OPENINGS. CONTRACTOR TO COORDINATE.

KEY PLAN:



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SOUTH ORANGETOWN Central School District
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PROJECT INFORMATION

Project Number
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Client Name
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Project Name
PHASE 2: 2022 BOND

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SHEET INFORMATION

Issued: 10/25/2024
Scale: As indicated
Project Status: BID DOCUMENTS
Drawn By: WKC
Checked By: LDW
Drawing Title: RTU FRAMING PLAN AREA D1 & D2

Drawing Number
TZHS
S204

GENERAL NOTES

1. THE STRUCTURE SHOWN ON THESE DRAWING IS SOUND ONLY IN ITS COMPLETED FORM. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING THE DESIGN, ADEQUACY, SAFETY AND STABILITY OF TEMPORARY ERECTION BRACING AND SHORING.
2. WHERE A DETAIL, TYPICAL DETAIL, SECTION, TYPICAL SECTION OR PLAN NOTE IS SHOWN FOR ONE CONDITION, IT SHALL APPLY FOR ALL SIMILAR OR LIKE CONDITIONS UNLESS NOTED OTHERWISE.
3. ALL DESIGN, INCLUDING MATERIAL STRESSES AND METHODS OF CONSTRUCTION SHALL BE IN COMPLIANCE WITH THE 2020 BUILDING CODE OF NEW YORK STATE, THE UNIFORM BUILDING CODE, OSHA AND GOVERNING AGENCIES HAVING JURISDICTION.
4. REFER TO THE "SPECIAL INSPECTIONS" SECTION OF THE SPECIFICATIONS FOR PROJECT REQUIREMENTS AND PERTINENT INFORMATION.
5. THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS, ELEVATIONS AND SITE CONDITIONS SHOWN ON THE DRAWINGS AND IMMEDIATELY NOTIFY THE OWNER'S REPRESENTATIVE OF ANY DISCREPANCIES PRIOR TO ORDERING OR FABRICATING MATERIALS OR OTHERWISE PROCEEDING WITH THE WORK.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES IN ORDER TO COMPLY WITH THE CONSTRUCTION DOCUMENTS. THE CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIAL, EQUIPMENT AND SERVICES REQUIRED TO EXECUTE AND COMPLETE ALL ITEMS OF WORK AS SHOWN OR INDICATED ON THE DRAWINGS AND AS SPECIFIED HEREIN, INCLUDING INCIDENTAL ITEMS TO EFFECT A FINISHED AND COMPLETE JOB, EVEN THOUGH SUCH ITEMS ARE NOT SHOWN OR PARTICULARLY MENTIONED.
7. THE ENGINEER IS NOT RESPONSIBLE FOR THE DESIGN OF STEEL STAIRS, PRECAST CONCRETE, HANDRAILS, CURTAIN WALL/WINDOW SYSTEMS, COLD-FORMED METAL FRAMING, OR OTHER SYSTEMS NOT SHOWN ON THE STRUCTURAL DRAWINGS. SUCH SYSTEMS SHALL BE DESIGNED, FURNISHED, AND INSTALLED AS REQUIRED BY OTHER PORTIONS OF THE CONTRACT DOCUMENTS.
8. THE GENERAL CONTRACTOR SHALL USE CONSTRUCTION METHODS THAT ARE IN STRICT ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
9. CONTRACTOR SHALL BE COMPLETELY RESPONSIBLE FOR ADEQUATELY SHORING AND BRACING EXISTING CONSTRUCTION WHILE PERFORMING NEW WORK.
10. DIMENSIONS ARE NOT TO BE DERIVED BY SCALING THESE DRAWINGS. IF THERE ARE ANY QUESTIONS REGARDING DIMENSIONS, CONTACT THE ARCHITECT/ENGINEER FOR INFORMATION PRIOR TO SUBMITTING SHOP DRAWINGS.
11. THE CONTRACTOR SHALL COORDINATE ALL STRUCTURAL WORK WITH THE ARCHITECTURAL AND MECHANICAL DRAWINGS AND SPECIFICATIONS, AND WITH THE WORK OF ALL OTHER TRADES.
12. THE CONTRACTOR SHALL COORDINATE ALL SIZES AND LOCATIONS OF FLOOR, ROOF AND WALL PENETRATIONS WITH MECHANICAL, PLUMBING AND ARCHITECTURAL DRAWINGS. ALL PENETRATIONS NOT SHOWN ON STRUCTURAL DRAWINGS MUST BE APPROVED BY THE DESIGN PROFESSIONAL, UNLESS NOTED OTHERWISE.
13. THE CONTRACTOR SHALL RESTORE TO ITS ORIGINAL CONDITION ALL SITE APPURTENANCES DAMAGED UNDER THIS CONTRACT AT NO ADDITIONAL COST TO THE OWNER.
14. INFORMATION IN THESE STRUCTURAL NOTES IS A SELECTED SUMMARY OF REQUIREMENTS. REFER TO SPECIFICATIONS FOR AMPLIFICATIONS OF REQUIREMENTS.
15. SUBMIT ELEVATOR MANUFACTURER DESIGN CRITERIA FOR DESIGN OF ELEVATOR PITS, HOIST BEAMS, SEPARATOR BEAMS, AND GUIDE RAIL SUPPORT STEEL. ANY ELEVATOR INFORMATION SHOWN IS PRELIMINARY.
16. WHERE MEMBER LOCATIONS ARE NOT SPECIFICALLY DIMENSIONED, MEMBERS ARE EITHER LOCATED ON COLUMN LINES OR ARE EQUALLY SPACED BETWEEN LOCATED MEMBERS.
17. THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR CONSTRUCTION SAFETY.

EXISTING CONSTRUCTION NOTES

1. BEFORE PROCEEDING WITH ANY WORK WITHIN THE EXISTING FACILITY, THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS OF THE EXISTING BUILDING AT THE JOB SITE AND REPORT ANY DISCREPANCIES FROM ASSUMED CONDITIONS SHOWN ON THE DRAWINGS TO THE ARCHITECT AND ENGINEER PRIOR TO THE FABRICATION AND ERECTION OF ANY MEMBERS.
2. THE CONTRACTOR SHALL FIELD VERIFY THE DIMENSIONS, ELEVATIONS, ETC. NECESSARY FOR THE PROPER CONSTRUCTION AND ALIGNMENT OF THE NEW WORK TO THE EXISTING WORK.
3. WORK SHOWN ON THE DRAWINGS IS NEW, UNLESS NOTED AS EXISTING.
4. EXISTING CONSTRUCTION SHOWN ON THE DRAWINGS WAS OBTAINED FROM DRAWINGS PREPARED BY THE FIRM OF STEVENS & WILKINSON, DATED OCTOBER 10, 2003 AND LIMITED SITE OBSERVATION. THESE DRAWINGS OF EXISTING CONSTRUCTION ARE AVAILABLE FOR CONTRACTOR USE. HOWEVER, THE AVAILABLE DRAWINGS OF EXISTING CONSTRUCTION MAY NOT NECESSARILY BE COMPLETE. THE CONTRACTOR SHALL FIELD VERIFY ALL PERTINENT INFORMATION.
5. IF ANY ARCHITECTURAL, STRUCTURAL, OR MECHANICAL MEMBERS OR COMPONENTS NOT DESIGNATED FOR REMOVAL INTERFERE WITH THE NEW WORK, THE ARCHITECT SHALL BE NOTIFIED IMMEDIATELY AND APPROVAL MUST BE OBTAINED PRIOR TO REMOVAL OF THOSE MEMBERS.
6. THE CONTRACTOR SHALL SAFELY SHORE EXISTING CONSTRUCTION TO ALLOW THE INSTALLATION OF NEW WORK. ALL SHORING METHODS AND SEQUENCING OF DEMOLITION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND HIS ENGINEER.
7. THE CONTRACTOR SHALL SUBMIT A DETAILED PLAN FOR SHORING, BRACING AND PROTECTION OF THE EXISTING CONSTRUCTION. THE PLAN SHALL INCLUDE CONSTRUCTION SEQUENCE, BEAR THE SEAL AND SIGNATURE OF A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF NEW YORK, AND BE SUBMITTED TO THE ENGINEER OF RECORD FOR REVIEW PRIOR TO THE BEGINNING OF WORK.
8. THE CONTRACTOR SHALL VERIFY THE LOCATION OF EXISTING UTILITIES PRIOR TO THE START OF CONSTRUCTION AND TAKE CARE TO PROTECT EXISTING UTILITIES THAT ARE TO REMAIN IN SERVICE.
9. THE CONTRACTOR SHALL REPAIR ALL DAMAGE CAUSED DURING CONSTRUCTION WITH SIMILAR MATERIALS AND WORKMANSHIP TO RESTORE CONDITIONS TO LEVELS ACCEPTABLE TO THE DESIGN PROFESSIONAL.
10. THE CONTRACTOR SHALL ENSURE THAT ALL CONSTRUCTION METHODS USED WILL NOT CAUSE DAMAGE TO THE ADJACENT BUILDINGS AND PROPERTY. THIS SHALL INCLUDE ALL FOUNDATION INSTALLATION.

DESIGN CRITERIA NOTES

1. **GENERAL BUILDING CODE** - THE CONSTRUCTION DOCUMENTS ARE BASED ON THE REQUIREMENTS OF THE 2020 BUILDING CODE OF NEW YORK STATE.
2. **BUILDING RISK CATEGORY** - THE BUILDING HAS BEEN ASSIGNED A RISK CATEGORY IN ACCORDANCE WITH PREVIOUSLY MENTIONED CODE WITH THE FOLLOWING CRITERIA:
   A. RISK CATEGORY: III, SUBSTANTIAL HAZARD TO HUMAN LIFE IN THE EVENT OF FAILURE.
3. **DEAD AND LIVE LOADS**
   A. THE DEAD LOADS ARE THE SELF WEIGHT OF MATERIALS OF CONSTRUCTION INCORPORATED INTO AND ON THE BUILDING.
   B. THE UNIFORMLY DISTRIBUTED AND/OR CONCENTRATED LIVE LOADS USED IN THE DESIGN OF THE BUILDING ARE BASED ON THE FOLLOWING INTENDED USE OR OCCUPANCIES:
      a. ROOFS: 20 PSF / 300 LB ON MAINTENANCE SURFACE
4. **ROOF SNOW LOAD DATA** - SNOW LOADS ARE BASED ON CHAPTER 7 OF THE AMERICAN SOCIETY OF CIVIL ENGINEERS, MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES, ASCE 7 AND THE FOLLOWING CRITERIA:

A.	GROUND SNOW LOAD (Pg):	30 PSF
B.	FLAT-ROOF SNOW LOAD (Pf):	23 PSF
C.	SNOW EXPOSURE FACTOR (Ce):	1.0
D.	SNOW LOAD IMPORTANCE FACTOR (Is):	1.1
E.	THERMAL FACTOR (Ct):	1.0
F.	SLOPE FACTORS (Cs):	1.0
G.	DRIFT SURCHARGE LOADS (Pd):	N/A
H.	WIDTH OF SNOW DRIFTS (w):	N/A

5. **WIND DESIGN DATA** - WIND PRESSURES ARE BASED ON CHAPTER 26 OF THE AMERICAN SOCIETY OF CIVIL ENGINEERS, MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES, ASCE 7 AND THE FOLLOWING CRITERIA:

A.	BASIC DESIGN WIND SPEED (V):	123 MPH
B.	ALLOWABLE STRESS DESIGN WIND SPEED (Vasd):	93 MPH
C.	RISK CATEGORY:	III
D.	WIND EXPOSURE:	C
E.	INTERNAL PRESSURE COEFFICIENT (GCPI):	+ 0.18/- 0.18
F.	COMPONENTS AND CLADDING:	(+16.0/-94.5 PSF) FOR 10 SF AREA

6. **EARTHQUAKE DESIGN DATA** - THE STRUCTURE AND COMPONENTS OF THE BUILDING HAVE BEEN DESIGNED IN ACCORDANCE WITH THE PREVIOUSLY MENTIONED CODE WITH THE FOLLOWING CRITERIA:

A.	RISK CATEGORY:	III
B.	SEISMIC IMPORTANCE FACTOR (Ie):	1.25
C.	0.2 SEC MAPPED SPECTRAL RESPONSE (Ss):	0.299 g
D.	1 SEC MAPPED SPECTRAL RESPONSE (S1):	0.062 g
E.	SITE CLASS:	D
F.	0.2 SEC SPECTRAL RESPONSE COEF. (Sds):	0.311 g
G.	1 SEC SPECTRAL RESPONSE COEF. (Sd1):	0.099 g
H.	SEISMIC DESIGN CATEGORY:	B
I.	BASIC SEISMIC FORCE-RESISTING SYSTEMS:	ORDINARY REINFORCED MASONRY SHEAR WALLS
J.	DESIGN BASE SHEAR(S):	NA
K.	SEISMIC MODIFICATION COEF. (CS):	0.0775
L.	RESPONSE MODIFICATION COEF. (R):	2.5
M.	ANALYSIS PROCEDURE USED:	EQUIVALENT LATERAL FORCE PROCEDURE (ELFP)

7. **GEOTECHNICAL INFORMATION** - THE STRUCTURE HAS BEEN DESIGNED BASED ON THE FOLLOWING CRITERIA:

A.	ALLOWABLE BEARING:	2000 PSF (ASSUMED)
B.	SUBGRADE MODULUS:	150 PCI (ASSUMED)

8. **FLOOD DESIGN DATA** - THE BUILDING IS NOT LOCATED IN WHOLE OR IN PART WITHIN A FLOOD HAZARD AREA AS ESTABLISHED PER THE PREVIOUSLY MENTIONED CODE.
9. **ROOF RAIN LOAD DATA** - THE DESIGN RAINFALL BASED ON THE 100-YEAR HOURLY RAINFALL RATE OR DETERMINED BY LOCAL WEATHER USED IN THE DESIGN OF THE BUILDING IS BASED ON THE FOLLOWING:

A.	RAIN INTENSITY (i):	2.70 IN/HR

10. **SEISMIC DEMANDS ON NON-STRUCTURAL COMPONENTS**, AND CONNECTIONS OF THOSE COMPONENTS TO THE PRIMARY STRUCTURE SHALL BE DESIGNED IN ACCORDANCE WITH THE PREVIOUSLY MENTIONED CODE, THE GENERAL SEISMIC CRITERIA LISTED ABOVE, AND THE REQUIREMENTS OF ASCE 7, CHAPTER 13 AS APPROPRIATE.
11. **HANDRAILS AND GUARDS** - THE HANDRAIL ASSEMBLIES AND GUARDS SHALL BE DESIGNED FOR 50 PLF OR A CONCENTRATED LOAD OF 200 LBS AT ANY POINT APPLIED IN ANY DIRECTION AT THE TOP AND TO TRANSFER THIS LOAD THROUGH THE SUPPORTS TO THE STRUCTURE. THESE LOADS NEED NOT BE ASSUMED TO ACT CONCURRENTLY.
12. **INTERIOR WALLS AND PARTITIONS** - INTERIOR WALLS AND PARTITIONS THAT EXCEED 6 FEET IN HEIGHT SHALL HAVE ADEQUATE STRENGTH TO RESIST LOADS THEY ARE SUBJECT TO, BUT NOT LESS THAN A HORIZONTAL UNIFORM LOAD OF 5 PSF.
13. **FUTURE EXPANSION** - NO PROVISIONS HAVE BEEN MADE IN THE STRUCTURAL DESIGN FOR FUTURE HORIZONTAL OR VERTICAL BUILDING EXPANSION.
14. **RESTRAINED CONSTRUCTION CLASSIFICATION** - IN ACCORDANCE WITH ASTM E 119, ALL FLOOR CONSTRUCTION IS CLASSIFIED AS RESTRAINED CONSTRUCTION.
15. **ROOF TOP EQUIPMENT ANCHORAGE** - ALL ROOF TOP EQUIPMENT CURBS, MECHANICAL EQUIPMENT, TIE DOWNS, AND CONNECTIONS OF ALL EQUIPMENT TO BUILDING STRUCTURE FOR WIND AND SEISMIC LOADING ARE TO BE DESIGNED BY A REGISTERED NEW YORK STATE PROFESSIONAL ENGINEER RETAINED BY THE EQUIPMENT SUPPLIER.

STRUCTURAL STEEL NOTES

1. STRUCTURAL STEEL SHALL CONFORM TO THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION "SPECIFICATION FOR THE DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS." HOT ROLLED STRUCTURAL STEEL SHAPES SHALL CONFORM TO ASTM A36 OR ASTM A992. HOLLOW STRUCTURAL SHAPES (HSS) SHALL CONFORM TO ASTM A500 GRADE B. ANGLES, CHANNELS, AND OTHER MISCELLANEOUS METALS SHALL CONFORM TO ASTM A36.
2. STEEL CONNECTIONS ARE SHOWN SCHEMATICALLY. FABRICATOR IS RESPONSIBLE FOR DESIGN AND DETAILING OF CONNECTIONS, INCLUDING MATERIAL GRADE AND SIZES, WELD SIZES, AND NUMBER OF BOLTS. ADDITIONAL CONNECTION ELEMENTS MAY NOT BE SPECIFICALLY SHOWN ON THE SCHEMATIC DETAILS BUT MAY BE REQUIRED BY THE FINAL CONNECTION DESIGN, SUCH AS STIFFENER PLATES, DOUBLER PLATES, SUPPLEMENT / REINFORCING PLATES OR OTHER CONNECTION MATERIAL.
3. REACTIONS AND LOADS PROVIDED ON DRAWINGS ARE UNFACTORED.
4. EACH BEAM CONNECTION SHALL BE DESIGNED FOR ONE HALF OF THE TOTAL LOAD SHOWN IN THE AISC TABLES FOR THE RESPECTIVE SPAN UNLESS OTHERWISE NOTED. COMPOSITE BEAM CONNECTIONS SHALL BE DESIGNED FOR THREE FOURTHS OF THE TOTAL LOAD. WHERE POSSIBLE, EACH BEAM CONNECTION SHALL BE OF THE TWO SIDED ANGLE TYPE AS PER AISC SPECIFICATION, UNLESS OTHERWISE NOTED ON THE DRAWINGS. MINIMUM CONNECTION SHALL BE TWO (2) BOLTS. ALL BEAM AND GIRDER CONNECTIONS SHALL BE WELDED CONNECTIONS, OR BOLTED CONNECTIONS USING ASTM A325X BOLTS, 3/4" DIAMETER.
5. ALL CONNECTIONS NOT SPECIFICALLY DETAILED ON THE DRAWINGS SHALL BE EITHER WELDED CONNECTIONS, OR BOLTED CONNECTIONS USING ASTM A325X BOLTS.
6. UNLESS SPECIFICALLY DETAILED OTHERWISE, SPLICES SHALL BE DESIGNED TO DEVELOP THE FULL CAPACITY OF THE MEMBER AT THE POINT OF THE SPLICE.
7. CUTS, HOLES, COPES, ETC., REQUIRED FOR WORK OF OTHER TRADES SHALL BE SHOWN ON SHOP DRAWINGS AND MADE IN THE SHOP. FIELD CUTTING OR BURNING WILL NOT BE PERMITTED.
8. ALL WELDING BOTH SHOP AND FIELD, SHALL BE PERFORMED BY CERTIFIED WELDERS IN ACCORDANCE WITH AWS SPECIFICATIONS. WELDING ELECTRODES SHALL CONFORM TO ASTM A233, E70-XX. MINIMUM WELD SIZE SHALL BE 1/4 INCHES (FILLET) UNLESS OTHERWISE NOTED. WELDED CONNECTIONS SHALL BE DESIGNED TO BE STRESSED TO LESS THAN 50% OF THEIR ALLOWABLE CAPACITIES.
9. STRUCTURAL STEEL SHALL RECEIVE A SHOP COAT OF RUST INHIBITING PAINT EXCEPT AS FOLLOWS; A. CONTACT MILLED BEARING SURFACES, B. WITHIN TWO INCHES OF FIELD WELDS, AND C. TOP FLANGES OF COMPOSITE BEAMS.
10. AFTER ERECTION, ALL DAMAGED AREAS IN THE SHOP COAT SHALL BE REPAIRED WITH THE SAME PAINT USED FOR THE SHOP COAT.
11. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR REVIEW.
12. DO NOT CAMBER BEAMS UNLESS A VALUE FOR CAMBER IS SPECIFIED ON THE DRAWINGS.

SPECIAL INSPECTION NOTES

1. THE OWNER'S TESTING LABORATORY/INSPECTION AGENCY SHALL PROVIDE SPECIAL INSPECTION SERVICES IN ACCORDANCE WITH THE 2020 BUILDING CODE OF NEW YORK STATE FOR THE FOLLOWING ITEMS AND WITH THE SCHEDULE OF SPECIAL INSPECTIONS OF THE PROJECT DOCUMENTS.
   A. STEEL CONSTRUCTION
      a. ALL FIELD WELDING.
      b. HIGH STRENGTH BOLTING.
      c. INSPECTION OF STRUCTURAL STEEL, BOLTING, WELDING MATERIALS.
      d. WELDING OF STRUCTURAL STEEL.
   B. CONCRETE CONSTRUCTION
      a. ANCHORS INSTALLED IN CONCRETE.
      b. CONCRETE WORK.
      c. REINFORCING STEEL PLACEMENT.
      d. ADHESIVE ANCHORS.
   C. MASONRY CONSTRUCTION
      a. HIGH-LIFT GROUTING.
      b. MASONRY WORK.
   D. SOILS
      a. PREPARED EARTH FILL.
2. STATEMENT OF SPECIAL INSPECTIONS
   A. SPECIAL INSPECTION IS REQUIRED FOR THE ITEMS LISTED ABOVE. REFER TO PROJECT SPECIFICATIONS FOR TYPE AND EXTENT OF EACH SPECIAL INSPECTION AND EACH TEST. THE SPECIFICATION ALSO INDICATES WHETHER CONTINUOUS OR PERIODIC INSPECTION IS REQUIRED FOR THE ITEMS LISTED ABOVE TO PROVIDE ADDITIONAL INFORMATION.
   B. APPROVED SPECIAL INSPECTORS SHALL FURNISH INSPECTION REPORTS TO THE BUILDING OFFICIAL OR HIS/HER DESIGNEE AND TO THE DESIGN PROFESSIONAL WHICH INDICATE WHETHER OR NOT THE WORK INSPECTED WAS DONE IN CONFORMANCE WITH THE APPROVED CONSTRUCTION DOCUMENTS. A FINAL REPORT WHICH DOCUMENTS THE RESULTS OF THE SPECIAL INSPECTIONS PERFORMED INCLUDING CORRECTION OF ANY DEFICIENCIES IDENTIFIED DURING INSPECTION SHALL BE SUBMITTED PERIODICALLY AT A FREQUENCY APPROVED PRIOR TO CONSTRUCTION.

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SOUTH ORANGETOWN Central School District
Capital Improvements Bond
Essential Infrastructure for Student Health, Safety and Success

PROJECT INFORMATION

Project Number
R22.14457.20

Client Name
SOUTH ORANGETOWN CENTRAL SCHOOL DISTRICT

Project Name
PHASE 2: 2022 BOND

TAPPAN ZEE HIGH SCHOOL

Building Address
15 DUTCH HILL ROAD, ORANGEBURG, NY 10962

SED # 50-03-01-06-0-006-033

Registration Expiration Dates
Lauren Tanio 09/30/26
Anthony Marchetti 05/31/27
Dave Hart 02/28/25
Jennifer Wengender 06/30/27

PROJECT ISSUE & REVISION SCHEDULE

#	Date	Description

PROFESSIONAL STAMPS

NEW YORK STATE EDUCATION STATEMENT

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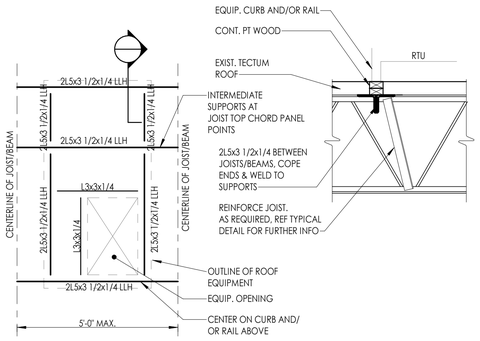
SHEET INFORMATION

Issued: 10/25/2024
Scale: 12" = 1'-0"
Project Status: BID DOCUMENTS
Drawn By: WKC
Checked By: LDW
Drawing Title: STRUCTURAL NOTES
Drawing Number: TZHS S800

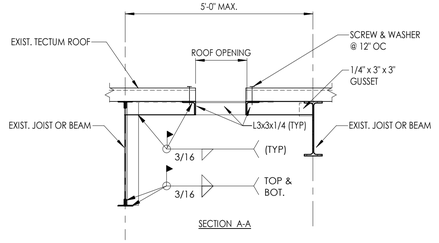


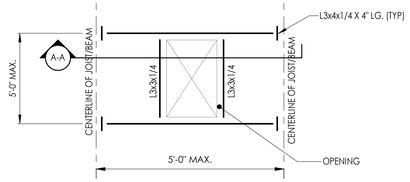
DETAIL NOTES:

1. THE ABOVE STEEL SIZES SHALL BE USED UNLESS NOTED OTHERWISE ON THE PLANS.
2. CONTRACTOR TO COORDINATE EQUIPMENT AND OPENING SUPPORTS WITH MECHANICAL CONTRACTOR AND FINAL APPROVED EQUIPMENT SUBMITTAL.
3. L3x3x1/4 MEMBERS SHALL BE REPLACED WITH L4x4x5/16 MEMBERS FOR EQUIPMENT MORE THAN 1,000 LB IN TOTAL WEIGHT (INCLUDES OPERATING WEIGHT).

1 S801 ROOF EQUIPMENT CURB AND/OR RAIL SUPPORT DETAIL

3/4" = 1'-0"



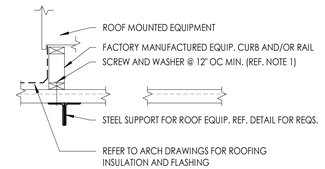


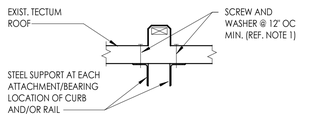
DETAIL NOTES:

1. THE ABOVE STEEL SIZES SHALL BE USED UNLESS NOTED OTHERWISE ON THE PLANS.
2. CONTRACTOR TO COORDINATE EQUIPMENT AND OPENING SUPPORTS WITH MECHANICAL CONTRACTOR AND FINAL APPROVED EQUIPMENT SUBMITTAL.
3. TOP OF ANGLES TO BE TIGHT TO UNDERSIDE OF ROOF PANELS.
4. ALL OPENINGS GREATER THAN 8 INCHES IN ANY DIRECTION SHALL BE FRAMED.

2 S801 EXISTING ROOF OPENING DETAIL (TECTUM SYSTEM)

3/4" = 1'-0"



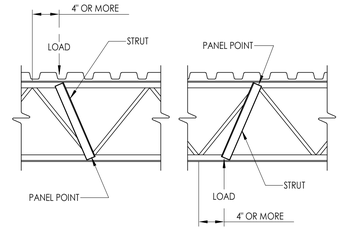


DETAIL NOTES:

1. EQUIPMENT ANCHORAGE SHALL MEET WIND AND/OR SEISMIC RESTRAINT REQUIREMENTS (WHERE REQUIRED) IF OR WHEN MORE STRINGENT.
2. CONTRACTOR TO COORDINATE EQUIPMENT CURB SIZE AND LOCATION WITH MECHANICAL, ELECTRICAL AND EQUIPMENT MANUFACTURER'S DRAWINGS.

3 S801 ROOF EQUIPMENT CURB AND/OR RAIL SUPPORT DETAIL (TECTUM SYSTEM)

3/4" = 1'-0"



NOTE:
WHEN A CONCENTRATED LOAD EQUAL TO OR GREATER THAN 200LBS. OCCURS 4" OR MORE FROM A PANEL POINT, A FIELD WELDED STRUT COMPOSED OF (2) L2x2x3/16 SHALL BE ADDED FROM THE POINT OF THE CONCENTRATED LOAD TO THE PANEL POINT ON THE OPPOSITE CHORD.

4 S801 CONCENTRATED LOAD ON JOIST DETAIL

3/4" = 1'-0"

MASONRY LINTEL SCHEDULE

WALL TYPE	SPAN	LINTEL	SECTION
4" MASONRY / VENEER	0'-8" TO 4'-6"	L4x3 1/2x5/16 LLV	
	4'-7" TO 5'-6"	L4x3 1/2x5/16 LLV	
	5'-7" TO 6'-6"	L5x3 1/2x5/16 LLV	
	6'-7" TO 7'-6"	L6x3 1/2x5/16 LLV	
6" MASONRY	0'-0" TO 1'-3"	BOND BEAM W/ (1) #4	
	1'-4" TO 4'-6"	WT4x9	
	4'-7" TO 5'-6"	WT4x10.5	
	5'-7" TO 6'-6"	WT5x13	
	6'-7" TO 7'-6"	WT5x13	
	7'-7" TO 9'-0"	W8x10 + 5/16 x 5 1/2 PL	
8" MASONRY	0'-0" TO 1'-3"	8" BOND BEAM W/ (2) #4	
	1'-4" TO 4'-6"	(2) L4x3 1/2x5/16 LLV	
	4'-7" TO 5'-6"	(2) L4x3 1/2x5/16 LLV	
	5'-7" TO 6'-6"	(2) L5x3 1/2x5/16 LLV	
	6'-7" TO 7'-6"	(2) L6x3 1/2x5/16 LLV	
	7'-7" TO 9'-0"	WT9x25	
4" MASONRY / VENEER w/ 8" MASONRY OR 12" MASONRY	0'-0" TO 1'-3"	L4x3 1/2x5/16 LLV + 8" BOND BEAM W/ (2) #4	
	1'-4" TO 4'-6"	(3) L4x3 1/2x5/16 LLV	
	4'-7" TO 5'-6"	(3) L4x3 1/2x5/16 LLV	
	5'-7" TO 6'-6"	(3) L5x3 1/2x5/16 LLV	
	6'-7" TO 7'-6"	(3) L6x3 1/2x5/16 LLV	
	7'-7" TO 8'-6"	W8x15 + 5/16 x 11 1/2 PL	

SCHEDULE NOTES:

1. PROVIDE LINTELS OVER ALL MASONRY OPENINGS AS SCHEDULED UNLESS NOTED OTHERWISE ON THE DRAWINGS.
2. MINIMUM BEARING FOR ALL LINTELS SHALL BE 8" EACH END.
3. GROUT SOLID AREA 16" W x 24" H BELOW BEARING UNLESS NOTED OTHERWISE ON THE DRAWINGS.
4. COORDINATE MASONRY OPENING SIZES AND LOCATIONS WITH ARCHITECTURAL, MECHANICAL AND PLUMBING DRAWINGS.
5. CONTRACTOR SHALL PROVIDE AN ADDITIONAL 50 FEET OF L5x3-1/2x5/16 ANGLE.
6. FOR MASONRY OPENING SPANS GREATER THAN 6'-0", BOLT ASSEMBLIES TOGETHER AT 1/3 POINTS.
7. FOR ALL W AND WT SHAPE LINTELS, PROVIDE A 1/2x5x7 BEARING PLATE WITH (2) 1/2" DIAMETER x 6" LONG HEADED STUDS, EACH END.
8. STEEL LINTELS EXPOSED TO THE EXTERIOR SHALL BE GALVANIZED UNLESS NOTED OTHERWISE.

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SHEET INFORMATION

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10/25/2024

Scale
3/4" = 1'-0"

Project Status
BID DOCUMENTS

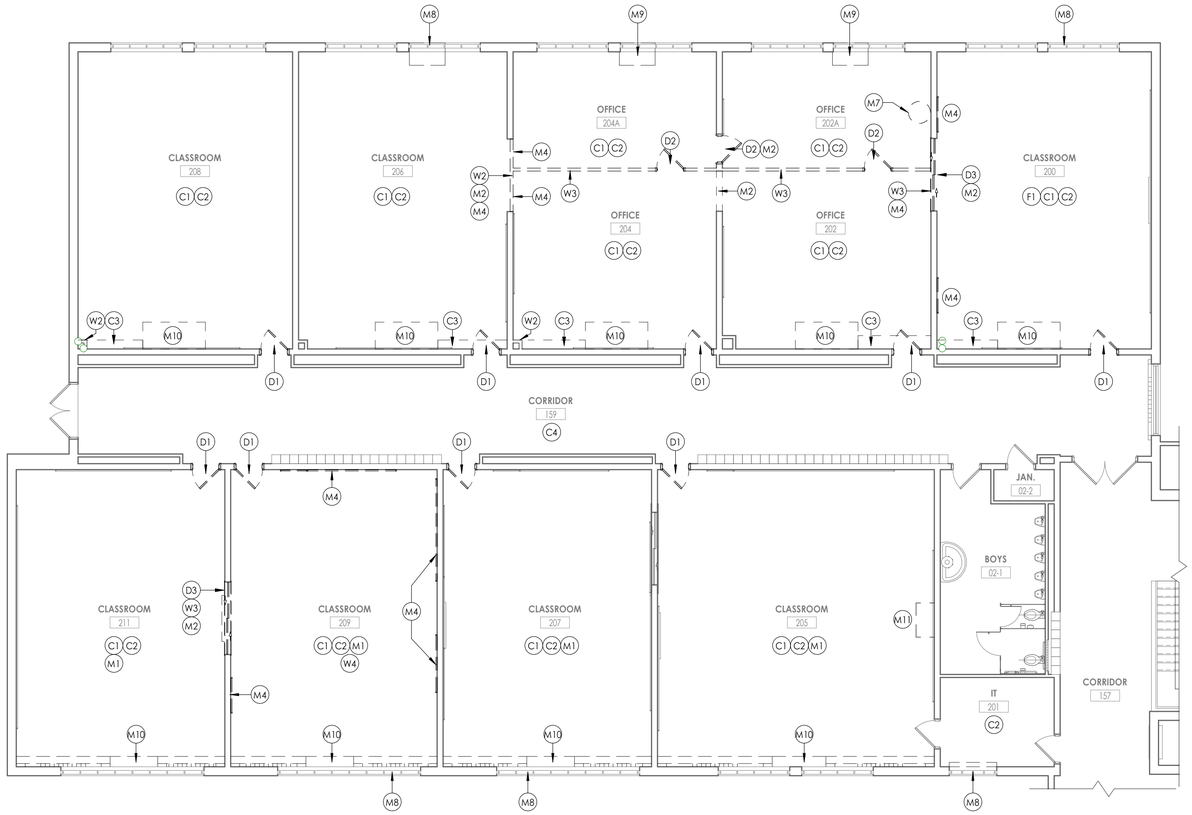
Drawn By
WKC

Checked By
LDW

Drawing Title
TYPICAL DETAILS

Drawing Number
TZHS
S801

10/24/2024 2:06:39 PM <project location>\D Design



1 / A102 **AREA B - FIRST FLOOR DEMOLITION PLAN**

1/8" = 1'-0"

DEMOLITION GENERAL NOTES

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6. WORK AREAS SHALL BE MAINTAINED AND ALL WORK AREAS SHALL BE LEFT BROOM CLEANED AT END OF EACH DAY.
7. THE CONTRACTOR SHALL MAINTAIN AND CONTINUE SAFE ACCESS TO ALL EXITS FOR THE BUILDING OCCUPANTS DURING CONSTRUCTION.
8. IN THE CASE THAT ANY SUSPICIOUS MATERIALS ARE UNCOVERED THAT APPEAR TO CONTAIN HAZARDOUS MATERIALS SUCH AS BUT NOT LIMITED TO MOLD, LEAD PAINT OR ASBESTOS, LEAVE THE PREMISES AND NOTIFY THE OWNER & ABATEMENT CONTRACTOR FOR REQUIRED TESTING AND/OR REMOVALS.
9. REMOVE ALL MISCELLANEOUS WALL MOUNTED ITEMS ON WALLS SCHEDULED TO RECEIVE NEW FINISHES INCLUDING BUT NOT LIMITED TO TRIM, TACK STRIPS, FLAG HOLDERS, ETC.

DEMOLITION KEY NOTES

- C1 REMOVE ACT CEILING SYSTEM IN ITS ENTIRETY
- C2 REMOVE SPLINE CEILING SYSTEM IN ITS ENTIRETY
- C3 REMOVE GYPSUM WALL BOARD SOFFIT IN ITS ENTIRETY
- C4 REMOVE ACT CEILING SYSTEM IN ITS ENTIRETY. SALVAGE CEILING TILES TO BE REINSTALLED IN NEW GRID.
- D1 REMOVE DOOR & HARDWARE. EXISTING FRAME TO REMAIN
- D2 REMOVE DOOR, FRAME, AND HARDWARE IN ITS ENTIRETY AND RETURN TO OWNER.
- D3 REMOVE SLIDING DOOR, FRAME, AND HARDWARE IN ITS ENTIRETY
- D4 REMOVE OPERABLE PARTITION IN ITS ENTIRETY, INCLUDING TRACK AND FRAMED WALL.
- F1 VINYL ASBESTOS TILE FLOORING TO BE REMOVED BY ABATEMENT CONTRACTOR. REFER TO HZ DRAWINGS.
- F2 REMOVE VCT FLOORING AND WALL BASE IN ITS ENTIRETY.
- M1 REMOVE CASEWORK
- M2 REMOVE WOOD TRIM FROM FRAMED OPENING, BOTH SIDES.
- M3 REMOVE EXISTING UNIT VENTILATOR PLATFORM IN ITS ENTIRETY.
- M4 ABATEMENT CONTRACTOR TO REMOVE WALL MTD. BOARD IN ITS ENTIRETY
- M5 M.C. TO REMOVE EXHAUST HOOD. REFER TO MECHANICAL DRAWINGS
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- M9 EXISTING PTAC TO BE REMOVED BY M.C.
- M10 EXISTING U.V. TO BE REMOVED BY M.C.
- M11 EXISTING SSI TO BE REMOVED BY M.C.
- M12 REMOVE & SALVAGE STOVE. RETURN TO OWNER
- M13 REMOVE EXISTING TRACK AND WOOD TRIM IN ITS ENTIRETY.
- P1 P.C. TO REMOVE EXISTING SINK. REFER TO PLUMBING DRAWINGS
- P2 P.C TO REMOVE SHOWER AND DRAIN. REFER TO PLUMBING DRAWING
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- W4 ABATEMENT CONTRACTOR TO REMOVE WOOD WALL PANELING, BASE AND TRIM IN ITS ENTIRETY FROM WALLS, DOWN TO PLASTER BELOW. GC TO PREPARE SURFACE TO RECEIVE NEW GYPSUM BOARD

NOTE:
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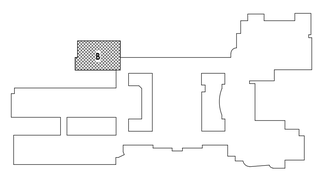
KEY PLAN:



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NY ENGINEERING FIRM CERTIFICATE #0021419

SOUTH ORANGETOWN Central School District
Capital Improvements Bond
Essential Infrastructure for Student Health, Safety and Success

PROJECT INFORMATION

Project Number
R22.14457.20

Client Name
SOUTH ORANGETOWN CENTRAL SCHOOL DISTRICT

Project Name
PHASE 2: 2022 BOND

TAPPAN ZEE HIGH SCHOOL

Building Address
15 DUTCH HILL ROAD, ORANGEBURG, NY 10962

SED # 50-03-01-06-0-006-033

Registration Expiration Dates
Lauren Tanio 09/30/26
Anthony Marchetti 05/31/27
Dave Hart 02/28/25
Jennifer Wengender 06/30/27

PROJECT ISSUE & REVISION SCHEDULE

#	Date	Description

PROFESSIONAL STAMPS

SHEET INFORMATION

Issued: 10/25/2024
Scale: As indicated
Project Status: BID DOCUMENTS
Drawn By: CJD
Checked By: LT
Drawing Title: AREA B DEMOLITION FLOOR PLAN

Drawing Number
TZHS
A102

1 A103 **AREA C1 - FIRST FLOOR DEMOLITION PLAN**
1/8" = 1'-0"

2 A103 **AREA C2 - FIRST FLOOR DEMOLITION PLAN**
1/8" = 1'-0"

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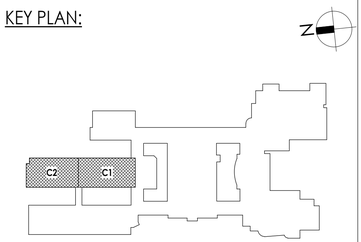

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SHEET INFORMATION

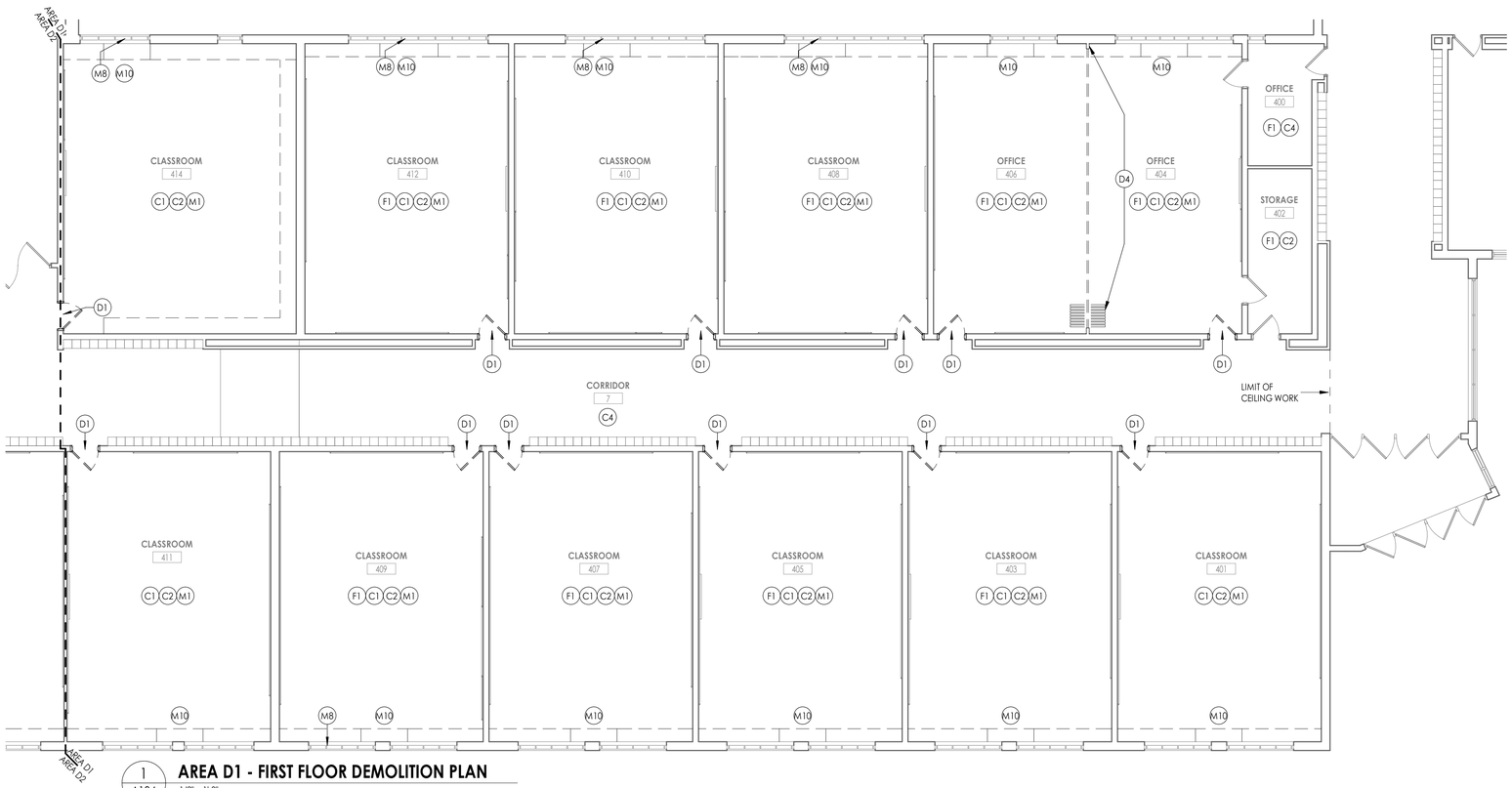
Issued	Scale
10/25/2024	As indicated

Project Status
BID DOCUMENTS

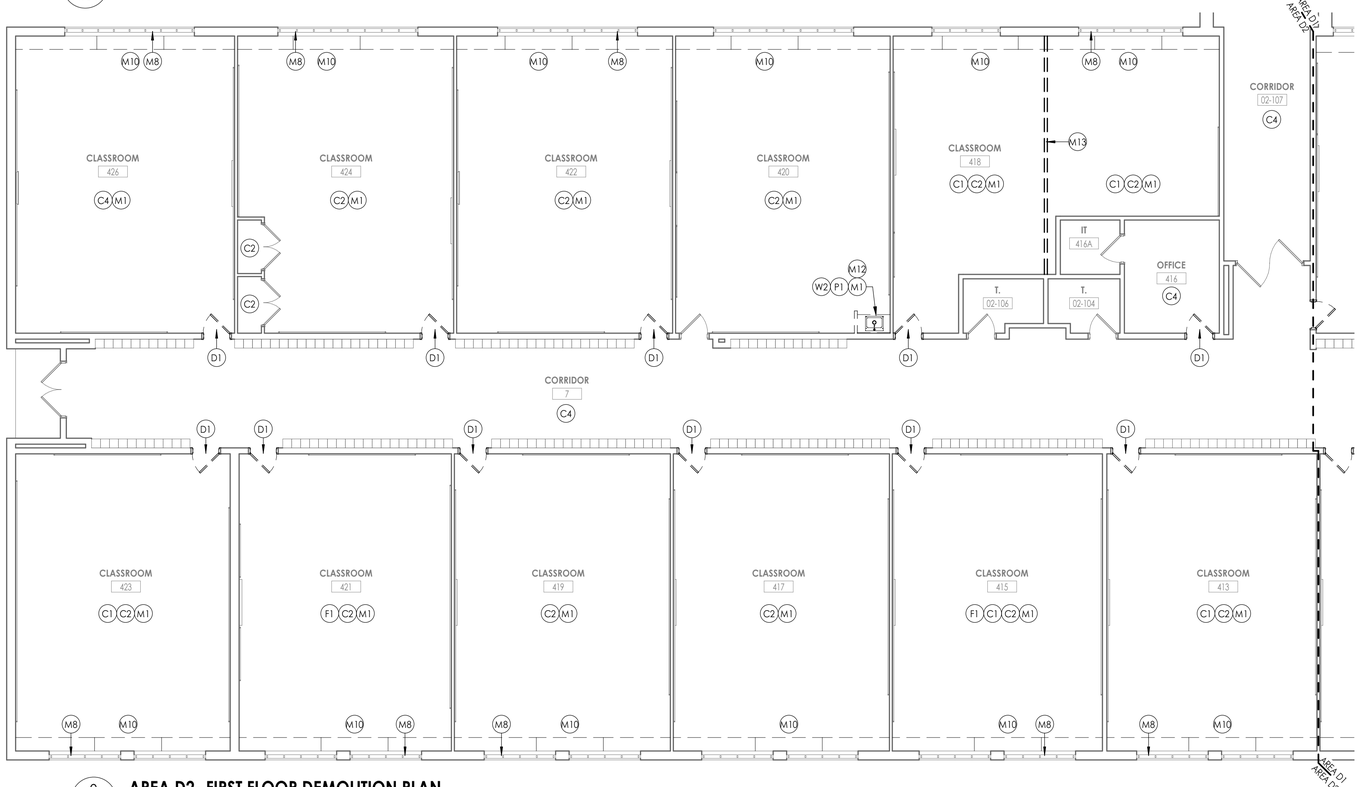
Drawn By	Checked By
CJD	LT

Drawing Title
AREA C DEMOLITION FLOOR PLAN

Drawing Number
TZHS
A103



1 A104 **AREA D1 - FIRST FLOOR DEMOLITION PLAN**
1/8" = 1'-0"



2 A104 **AREA D2- FIRST FLOOR DEMOLITION PLAN**
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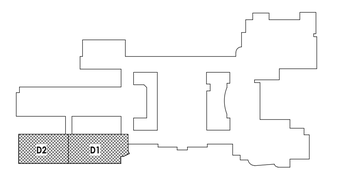

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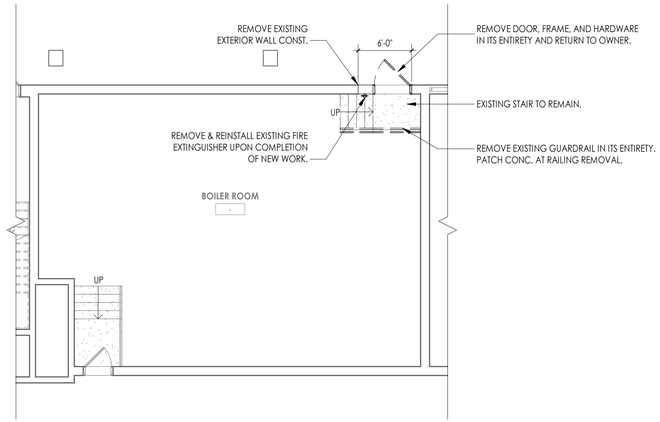
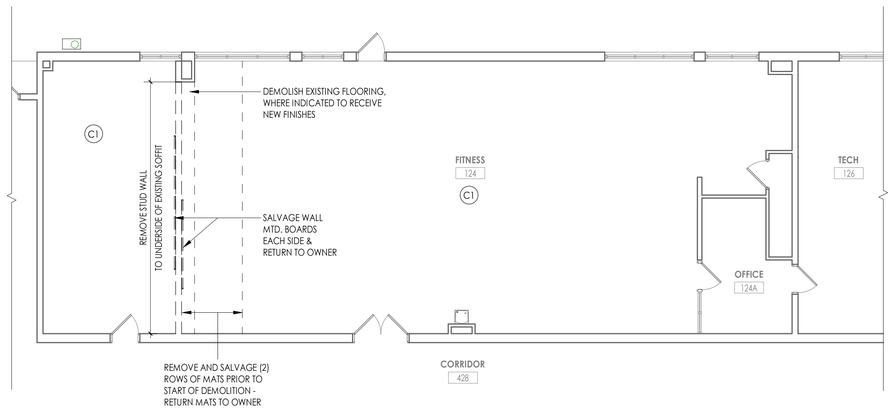
SHEET INFORMATION

Issued: 10/25/2024
Scale: As indicated
Project Status: BID DOCUMENTS
Drawn By: CJD
Checked By: LT
Drawing Title: AREA D DEMOLITION FLOOR PLAN
Drawing Number: TZHS A104



2 / A105 **AREA F - BOILER ROOM DEMOLITION FLOOR PLAN**

1/8" = 1'-0"



1 / A105 **AREA E - GROUND FLOOR DEMOLITION PLAN - FITNESS ROOM**

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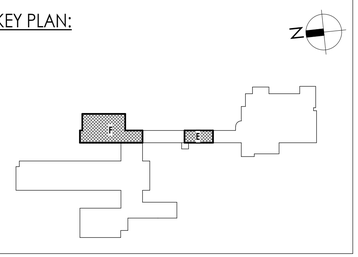

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SHEET INFORMATION

Issued	Scale
10/25/2024	As indicated

Project Status
BID DOCUMENTS

Drawn By	Checked By
CJD	LT

Drawing Title
AREA E & F DEMOLITION FLOOR PLAN

Drawing Number
TZHS
A105

10/25/2024 10:13:38 AM <project location>\REVIT PROJECT FILES ON BIM 360

DEMOLITION ROOF PLAN GENERAL NOTES

1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FAMILIARIZE THEMSELVES WITH ALL EXISTING CONDITIONS AND DETAILS INVOLVED IN THE DEMOLITION WORK.
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DEMOLITION ROOF PLAN KEYNOTES

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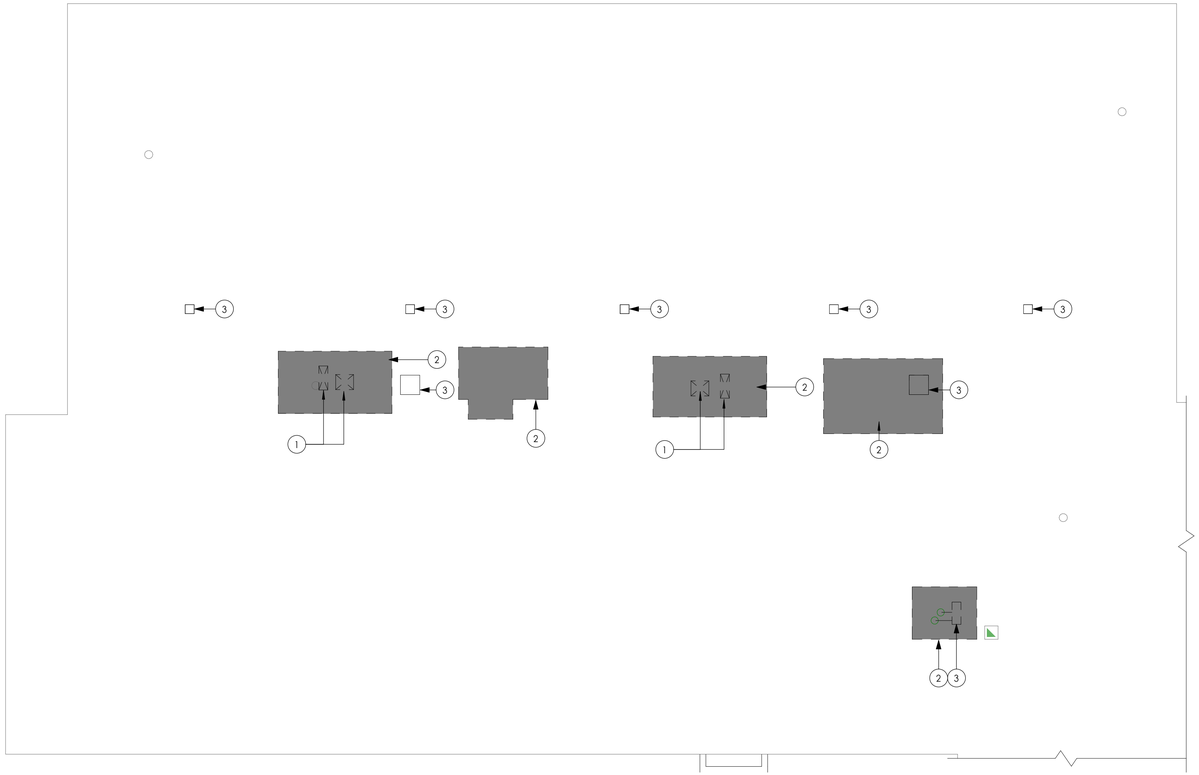
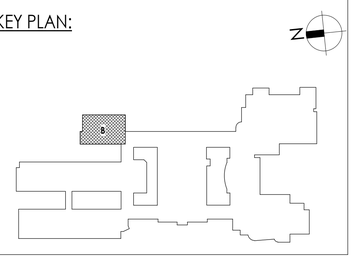


1 / A110 **AREA B DEMOLITION ROOF PLAN**
1/8" = 1'-0"

KEY PLAN:



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NY ENGINEERING FIRM CERTIFICATE #0021419

SOUTH ORANGETOWN Central School District
Capital Improvements Bond
Essential Infrastructure for Student Health, Safety and Success

PROJECT INFORMATION

Project Number
R22.14457.20

Client Name
SOUTH ORANGETOWN CENTRAL SCHOOL DISTRICT

Project Name
PHASE 2: 2022 BOND

TAPPAN ZEE HIGH SCHOOL

Building Address
15 DUTCH HILL ROAD, ORANGEBURG, NY 10962

SED # 50-03-01-06-0-006-033

Registration Expiration Dates
Lauren Tonio 09/30/26
Anthony Marchetti 05/31/27
Dave Hart 02/28/25
Jennifer Wengender 06/30/27

PROJECT ISSUE & REVISION SCHEDULE

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Drawing Title
AREA B DEMOLITION ROOF PLAN

Drawing Number
TZHS
A110

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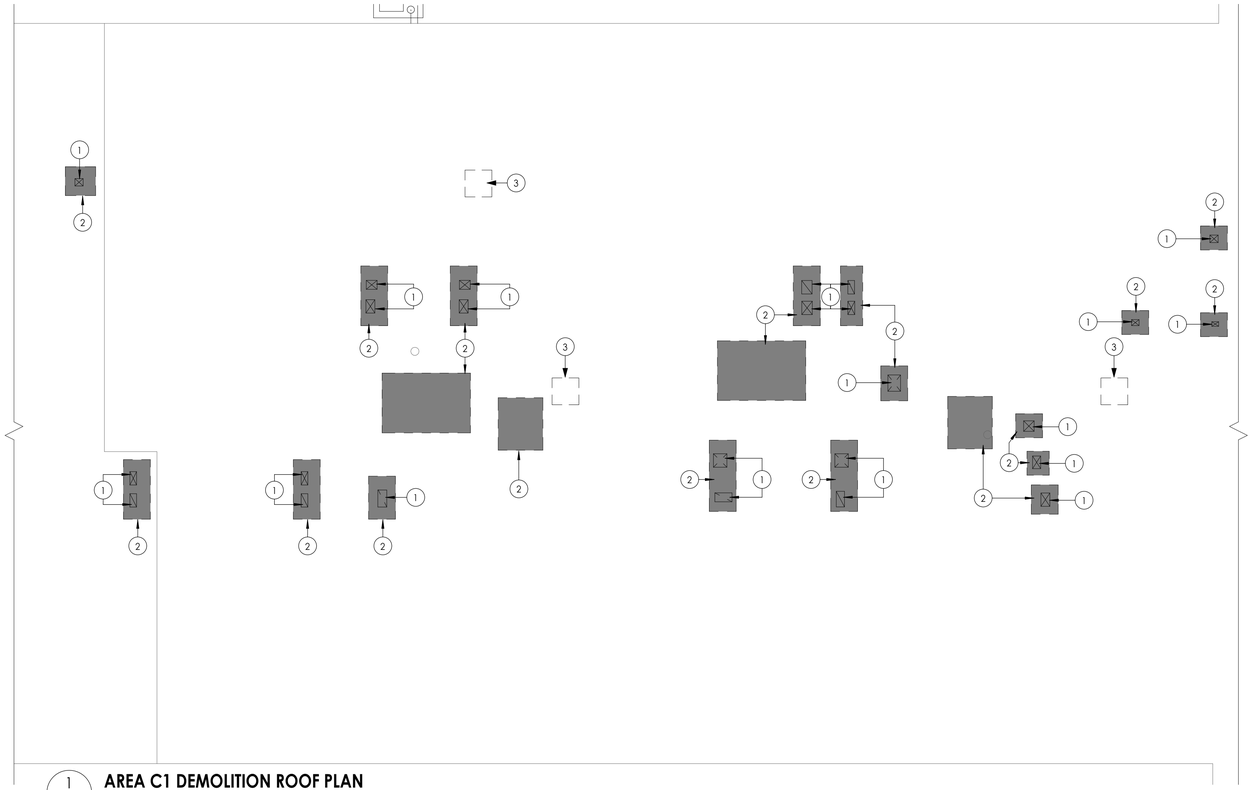
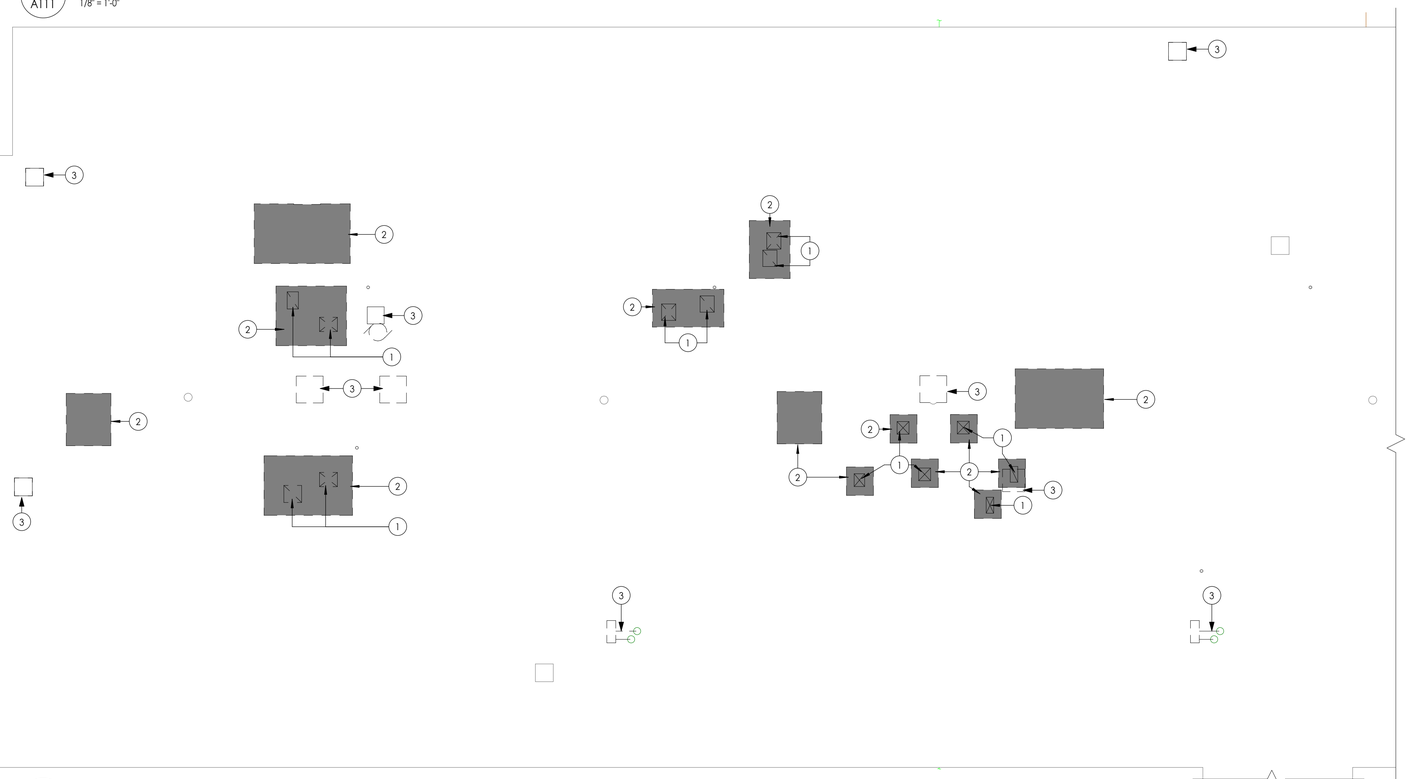


1 A111 **AREA C1 DEMOLITION ROOF PLAN**
1/8" = 1'-0"



2 A111 **AREA C2 DEMOLITION ROOF PLAN**
1/8" = 1'-0"

DEMOLITION ROOF PLAN GENERAL NOTES

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Project Status
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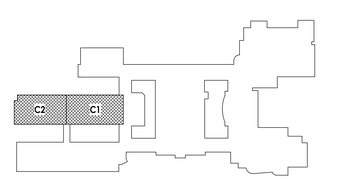
Drawn By
CJD

Checked By
LT

Drawing Title
AREA C DEMOLITION ROOF PLAN

KEY PLAN:



Drawing Number
TZHS
A111

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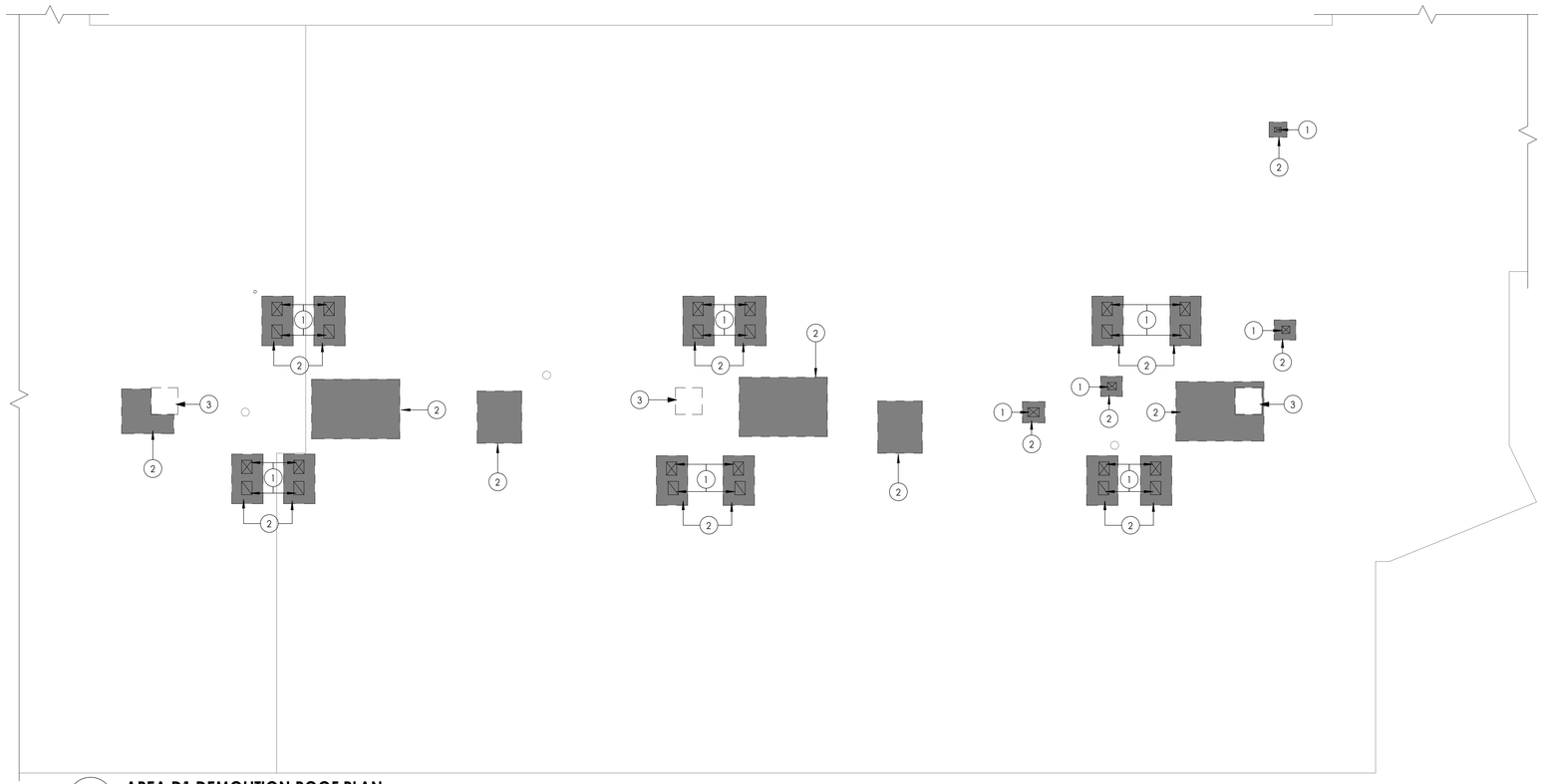
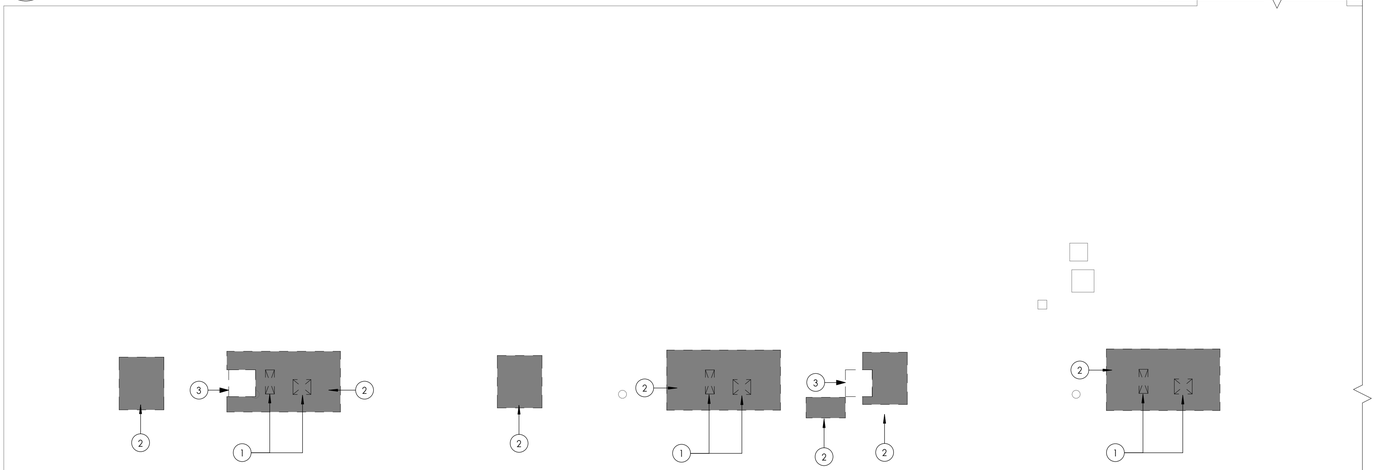


1 A112 **AREA D1 DEMOLITION ROOF PLAN**
1/8" = 1'-0"



2 A112 **AREA D2 DEMOLITION ROOF PLAN**
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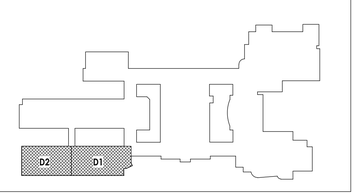

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SOUTH ORANGETOWN Central School District
Capital Improvements Bond
Essential Infrastructure for Student Health, Safety and Success

PROJECT INFORMATION

Project Number
R22.14457.20

Client Name
SOUTH ORANGETOWN CENTRAL SCHOOL DISTRICT

Project Name
PHASE 2: 2022 BOND

TAPPAN ZEE HIGH SCHOOL

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SHEET INFORMATION

Issued
10/25/2024

Scale
As indicated

Project Status
BID DOCUMENTS

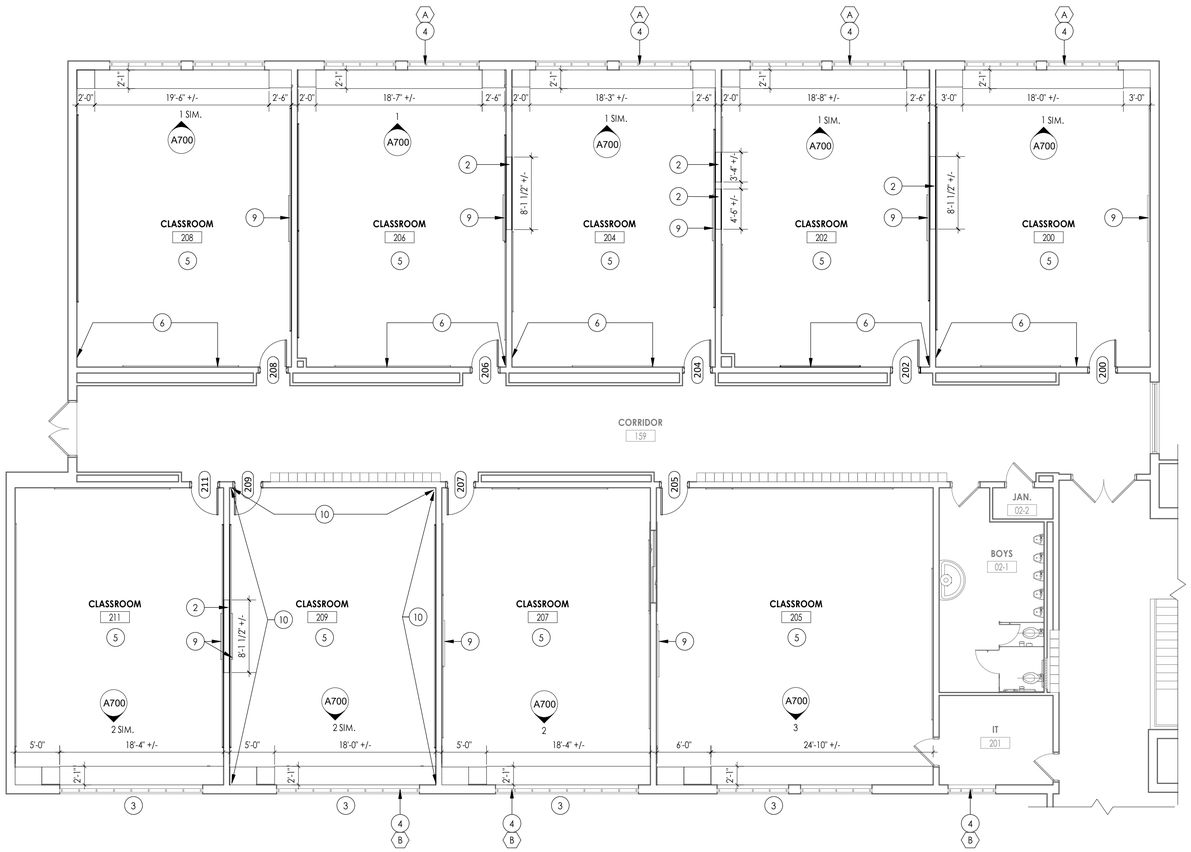
Drawn By
CJD

Checked By
LT

Drawing Title
AREA D DEMOLITION ROOF PLAN

Drawing Number
TZHS
A112

10/25/2024 10:13:41 AM <project location>\REVIT PROJECT FILES ON BIM 360



1 A202 **AREA B - FIRST FLOOR PLAN**

1/8" = 1'-0"

FLOOR PLAN GENERAL NOTES

1. ALL DRAWINGS ARE GRAPHIC REPRESENTATIONS OF APPROXIMATE LOCATIONS OF EXISTING AND NEW MATERIALS. FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO COMMENCEMENT OF WORK.
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6. COORDINATE WITH OTHER TRADES FOR SEQUENCING OF WORK.
7. REFER TO I DRAWINGS FOR INTERIOR FINISHES

FLOOR PLAN LEGEND

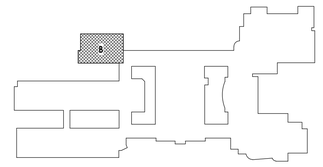
NOTE: THIS LEGEND MAY CONTAIN SYMBOLS THAT ARE NOT USED IN THIS PROJECT.

- DOOR — DOOR TARGET, SEE SCHEDULE
- W1 — WINDOW TARGET, SEE SCHEDULE
- 1 / A — COLUMN LINE IDENTIFICATION
- ROOM NAME / H1234.2 / 150 SF / 10'-0" x 10'-0" — ROOM TAG
- 1 / A3.1 — SECTION MARK
- 2 / A701 — INTERIOR ELEVATION MARK
- 1 / A4.1 — DETAIL FOR REFERENCE MARK
- 3 / A301 — EXTERIOR ELEVATION MARK
- DENOTES FINISH FLOOR GRADE ELEVATION

FLOOR PLAN KEY NOTES

1. PATCH PLASTER WALL AS REQ'D AT DEMOLISHED WALLS & CASEWORK
2. INFILL WALL OPENING WITH 8" CMU AND PLASTER BOTH SIDES TO MATCH EXISTING. PATCH WALL BASE TO MATCH EXISTING.
3. INFILL EXTERIOR MASONRY WALL AT DEMOLISHED UV LOCATIONS. REFER TO DETAIL 1/A800
4. REPLACE WINDOW PANEL W/ GLAZING AT EXISTING AC REMOVAL. REFER TO A900
5. NEW CASEWORK. REFER TO INTERIOR ELEVATIONS AND A800 SERIES FOR DETAILS.
6. PATCH PLASTER WALL AT REMOVALS
7. PATCH PLASTER WALL AT DEMOLISHED LIGHT FIXTURE
8. PATCH PLASTER WALL AS REQ'D AT DEMOLISHED TRACK
9. SMARTBOARD TO BE FURNISHED & INSTALLED BY OWNER. REFER TO T DRAWINGS FOR DATA CONNECTION LOCATIONS.
10. LAMINATE GYPSUM WALL BOARD AS SPECIFIED. GYP TO EXTEND 6" MIN. ABOVE FINISHED CEILING.

KEY PLAN:



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NY ENGINEERING FIRM CERTIFICATE #0021419

SOUTH ORANGETOWN Central School District
Capital Improvements Bond
Essential Infrastructure for Student Health, Safety and Success

PROJECT INFORMATION

Project Number
R22.14457.20

Client Name
SOUTH ORANGETOWN CENTRAL SCHOOL DISTRICT

Project Name
PHASE 2: 2022 BOND

TAPPAN ZEE HIGH SCHOOL

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SED # 50-03-01-06-0-006-033

Registration Expiration Dates
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SHEET INFORMATION

Issued: 10/25/2024
Scale: As indicated
Project Status: BID DOCUMENTS
Drawn By: CJD
Checked By: LT
Drawing Title: AREA B NEW WORK PLAN
Drawing Number: TZHS A202

1 A203 **AREA C1 - FIRST FLOOR PLAN**

1/8" = 1'-0"

2 A203 **AREA C2 - FIRST FLOOR PLAN**

1/8" = 1'-0"

FLOOR PLAN GENERAL NOTES

1. ALL DRAWINGS ARE GRAPHIC REPRESENTATIONS OF APPROXIMATE LOCATIONS OF EXISTING AND NEW MATERIALS. FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO COMMENCEMENT OF WORK.
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6. COORDINATE WITH OTHER TRADES FOR SEQUENCING OF WORK.
7. REFER TO I DRAWINGS FOR INTERIOR FINISHES

FLOOR PLAN LEGEND

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- DOOR — DOOR TARGET, SEE SCHEDULE
- W1 — WINDOW TARGET, SEE SCHEDULE
- 1 / A — COLUMN LINE IDENTIFICATION
- ROOM NAME / H1234.2 / 150 SF / 10'-0" x 10'-0" — ROOM TAG
- 1 / A3.1 — SECTION MARK
- 2 / A701 — INTERIOR ELEVATION MARK
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- 3 / A301 — EXTERIOR ELEVATION MARK
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FLOOR PLAN KEY NOTES

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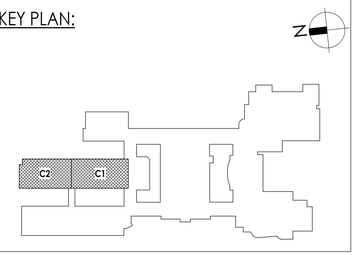

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Checked By: LT
Drawing Title: AREA C NEW WORK PLAN

Drawing Number
TZHS
A203

1 A204 **AREA D1 - FIRST FLOOR PLAN**

1/8" = 1'-0"

2 A204 **AREA D2 - FIRST FLOOR PLAN**

1/8" = 1'-0"

FLOOR PLAN GENERAL NOTES

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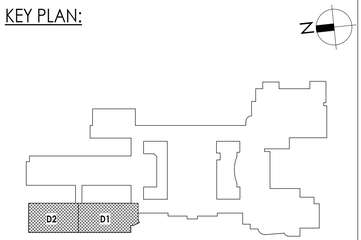

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NY ENGINEERING FIRM CERTIFICATE #0021419

SOUTH ORANGETOWN Central School District
Capital Improvements Bond
Essential Infrastructure for Student Health, Safety and Success

PROJECT INFORMATION

Project Number
R22.14457.20

Client Name
SOUTH ORANGETOWN CENTRAL SCHOOL DISTRICT

Project Name
PHASE 2: 2022 BOND

TAPPAN ZEE HIGH SCHOOL

Building Address
15 DUTCH HILL ROAD, ORANGEBURG, NY 10962

SED # 50-03-01-06-0-006-033

Registration Expiration Dates
Lauren Tanio 09/30/26
Anthony Marchetti 05/31/27
Dave Hart 02/28/25
Jennifer Wengender 06/30/27

PROJECT ISSUE & REVISION SCHEDULE

#	Date	Description

PROFESSIONAL STAMPS

NEW YORK STATE EDUCATION STATEMENT

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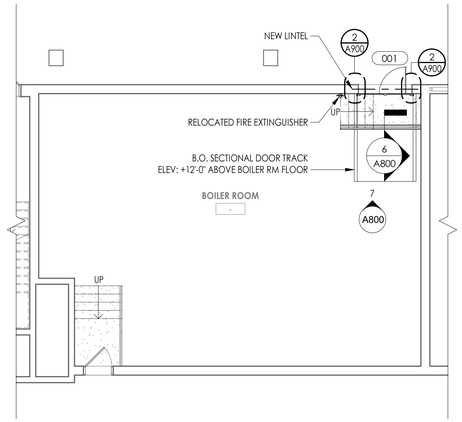
SHEET INFORMATION

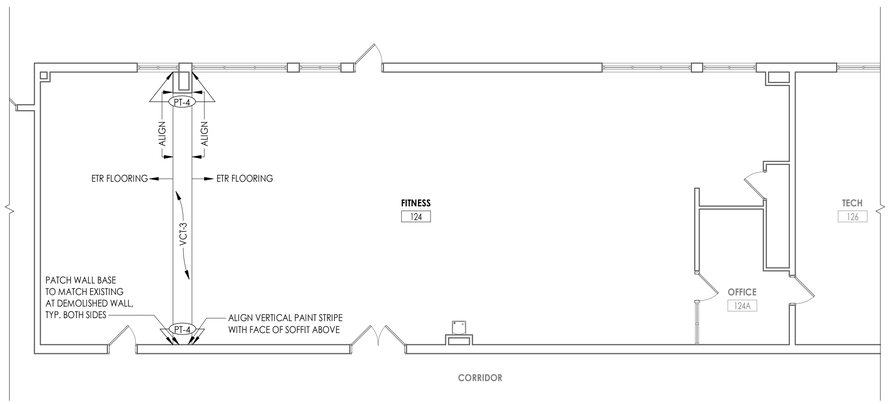
Issued: 10/25/2024
Scale: As indicated
Project Status: BID DOCUMENTS
Drawn By: CJD
Checked By: LT
Drawing Title: AREA D NEW WORK PLAN

Drawing Number
TZHS
A204



2 / A205 **AREA F - BOILER ROOM NEW WORK FLOOR PLAN**

1/8" = 1'-0"



1 / A205 **AREA E - GROUND FLOOR NEW WORK PLAN - FITNESS ROOM**

1/8" = 1'-0"

FLOOR PLAN GENERAL NOTES

1. ALL DRAWINGS ARE GRAPHIC REPRESENTATIONS OF APPROXIMATE LOCATIONS OF EXISTING AND NEW MATERIALS. FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO COMMENCEMENT OF WORK.
2. THE CONTRACTOR IS RESPONSIBLE FOR DAMAGE TO ANY EXISTING FINISHES AND EQUIPMENT NOT REMOVED UNDER THE SCOPE OF WORK. ANY DAMAGE WILL BE REPAIRED TO THE OWNER/ARCHITECT'S SATISFACTION AT NO COST TO THE OWNER.
3. WORK AREAS SHALL BE MAINTAINED AND ALL WORK AREAS SHALL BE LEFT BROOMED CLEAN AT END OF EACH DAY.
4. THE CONTRACTOR SHALL PROVIDE DUST CONTROL BARRIERS AT ALL AREAS OF CONSTRUCTION.
5. THE CONTRACTOR SHALL PATCH ALL SURFACES WHERE EXISTING MATERIALS HAVE BEEN DISTURBED TO MATCH AND BE FLUSH WITH ADJACENT CONSTRUCTION AT ALL FLOOR, WALL AND CEILING LOCATIONS.
6. COORDINATE WITH OTHER TRADES FOR SEQUENCING OF WORK.
7. REFER TO I DRAWINGS FOR INTERIOR FINISHES

FLOOR PLAN LEGEND

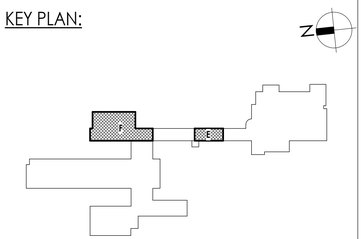
NOTE: THIS LEGEND MAY CONTAIN SYMBOLS THAT ARE NOT USED IN THIS PROJECT.

- DOOR — DOOR TARGET, SEE SCHEDULE
- W1 — WINDOW TARGET, SEE SCHEDULE
- 1 / A — COLUMN LINE IDENTIFICATION
- ROOM NAME / H1234.2 / 150 SF / 10'-0" x 10'-0" — ROOM TAG
- 1 / A3.1 — SECTION MARK
- 2 / A701 — INTERIOR ELEVATION MARK
- 1 / A4.1 — DETAIL FOR REFERENCE MARK
- 3 / A301 — EXTERIOR ELEVATION MARK
- DENOTES FINISH FLOOR GRADE ELEVATION

FLOOR PLAN KEY NOTES

1. PATCH PLASTER WALL AS REQ'D AT DEMOLISHED WALLS & CASEWORK
2. INFILL WALL OPENING WITH 8" CMU AND PLASTER BOTH SIDES TO MATCH EXISTING. PATCH WALL BASE TO MATCH EXISTING.
3. INFILL EXTERIOR MASONRY WALL AT DEMOLISHED UV LOCATIONS. REFER TO DETAIL 1/A800
4. REPLACE WINDOW PANEL W/ GLAZING AT EXISTING AC REMOVAL. REFER TO A900
5. NEW CASEWORK. REFER TO INTERIOR ELEVATIONS AND A800 SERIES FOR DETAILS.
6. PATCH PLASTER WALL AT REMOVALS
7. PATCH PLASTER WALL AT DEMOLISHED LIGHT FIXTURE
8. PATCH PLASTER WALL AS REQ'D AT DEMOLISHED TRACK
9. SMARTBOARD TO BE FURNISHED & INSTALLED BY OWNER. REFER TO T DRAWINGS FOR DATA CONNECTION LOCATIONS.
10. LAMINATE GYPSUM WALL BOARD AS SPECIFIED. GYP TO EXTEND 6" MIN. ABOVE FINISHED CEILING.

KEY PLAN:



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Checked By: LT
Drawing Title: AREA E & F NEW WORK PLAN

Drawing Number
TZHS
A205

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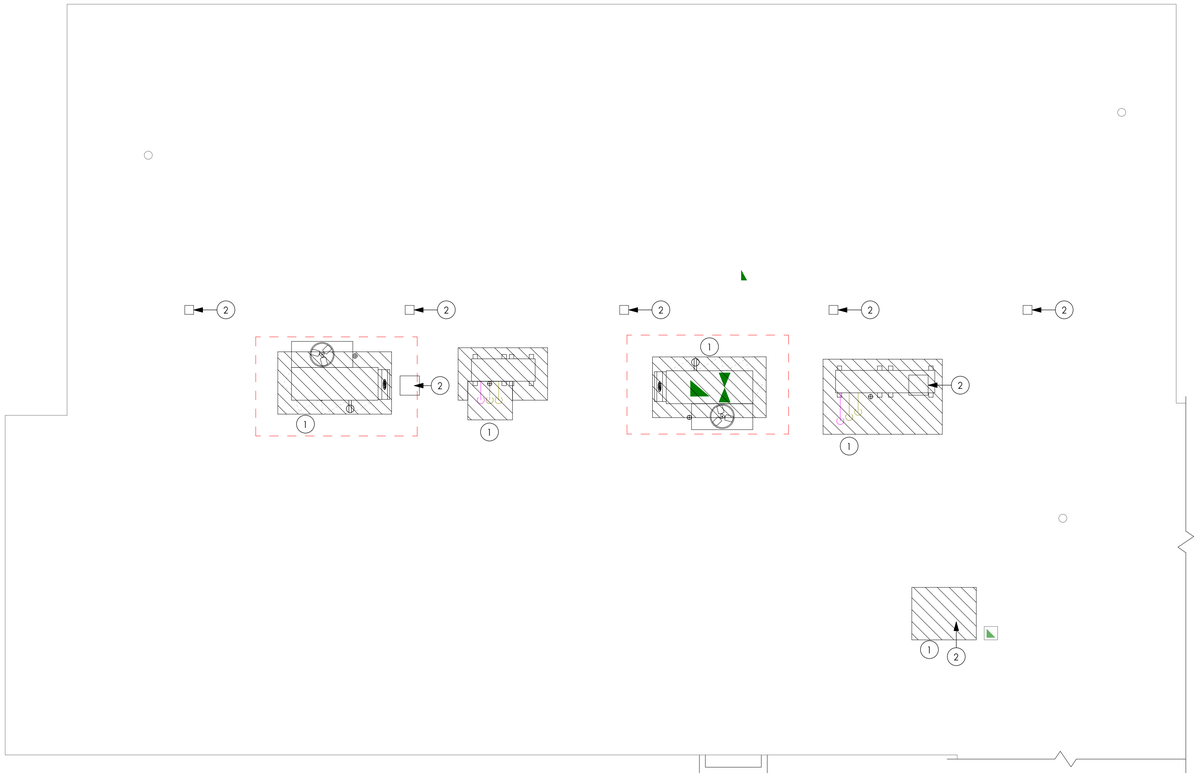


1 A210 **AREA B - NEW WORK ROOF PLAN**
1/8" = 1'-0"

ROOF PLAN GENERAL NOTES

1. ALL DRAWINGS ARE GRAPHIC REPRESENTATIONS OF APPROXIMATE LOCATIONS OF MATERIALS. FIELD VERIFY ALL CONDITIONS PRIOR TO THE COMMENCEMENT OF WORK.
2. REFER TO ALL DRAWINGS IN THE SET FOR LOCATIONS OF ALL ROOF PENETRATIONS. PROVIDE FRAMING AS REQUIRED.
3. PAINT ALL ROOF FASTENERS EXPOSED TO VIEW AT UNDERSIDE OF DECK TO MATCH.
4. WORK AREAS SHALL BE MAINTAINED AND ALL WORK AREAS SHALL BE BROOM CLEAN AT THE END OF EACH DAY.
5. ALL WOOD BLOCKING USED SHALL BE PRESSURE TREATED.
6. INSTALL ALL ROOF DRAINS AND CUTTING THE HOLES IN THE DECK FOR ANY DRAINS AND PROVIDING STRUCTURAL SUPPORTS.
7. THE ROOF ELEVATIONS SHOWN ON THE PLAN ARE SHOWN TO ESTABLISH RELATIVE HEIGHTS OF THE INDIVIDUAL ROOFS.
8. NO WEEP HOLES SHALL BE COVERED OR PLUGGED AS A RESULT OF THE ROOFING WORK, UNLESS OTHERWISE DIRECTED.
9. MAINTAIN WATER TIGHTNESS AND PROVIDE PROTECTION AT ANY/ALL OPENINGS IN THE ROOF LEFT AT THE END OF EACH DAY.
10. PROVIDE CRICKETS FOR WATER DIVERSION AT ALL CURBS, RAILS, ETC. WHICH RUN PERPENDICULAR TO THE SLOPE OF THE INSULATION/SLOPED STRUCTURE.
11. ALL ROOF TOP UNITS SHALL BE MOUNTED ON 16" MIN. INSULATED METAL CURBS. PROVIDE TAPERED INSULATION CRICKETS AS REQUIRED TO SHED WATER. WOOD BLOCKING SHALL BE PROVIDED SO CURBS ARE 8" ABOVE FINISHED ROOF SURFACE.
12. PROVIDE WOOD BLOCKING AS REQUIRED TO MEET THE HIGH POINT (HP)OF THE INSULATION AT ROOF EDGES. THE ROOF EDGE HEIGHT SHALL NOT VARY UNLESS OTHERWISE NOTED. ALL WOOD BLOCKING USED SHALL BE PRESERVATIVE -TREATED.
13. ALL SADDLES AND CRICKETS ARE TO HAVE A MIN. 1/4" PER FOOT SLOPE AS INDICATED. PROVIDE CRICKETS FOR DIVERSION OF WATER AT ALL CURBS, RAILS, ETC. WHICH RUN PERPENDICULAR TO SLOPE OF INSULATION.
14. AT ALL MECHANICAL EQUIPMENT, PROVIDE SLOPED INSULATION AS REQUIRED TO DRAIN ROOF WATER AWAY FROM HIGH SIDE OF CURBS.
15. ALL ROOFS TO HAVE MINIMUM R-VALUE OF R-30, (CLIMATE ZONE 4, ZONE 5 & ZONE 6) ALL ROOFS TO HAVE MINIMUM R-VALUE OF R-25 (CLIMATE ZONE 3) UPON COMPLETION OF WORK, THE PLUMBING CONTRACTOR SHALL SNAKE OUT ALL ROOF DRAINS AND VERIFY ALL ARE CLEAR AND LEFT IN A FREE FLOWING CONDITION.
16. ALL CURBS FOR MECHANICAL EQUIPMENT SHALL BE PROVIDED BY THE MECHANICAL CONTRACTOR AND INSTALLED BY THE GENERAL CONTRACTOR. ASSOCIATED ROOF/FLASHING BY GENERAL CONTRACTOR.
17. THE INSTALLED ROOFING SYSTEM SHALL MEET ALL REQUIREMENTS FOR CLASSIFICATION AS A UL CLASS "A" ROOF ASSEMBLY.
18. PROVIDE AND APPLY ADHESIVE VAPOR BARRIER TO ALL ROOF SURFACES AT THE BEGINNING OF CONSTRUCTION. ADHESIVE VAPOR BARRIER SHALL REMAIN IN PLACE THROUGHOUT CONSTRUCTION.

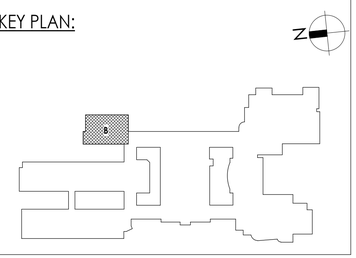
ROOF PLAN LEGEND

PROVIDE NEW ROOFING SYSTEM TO MATCH EXISTING AT REMOVED MECHANICAL EQUIPMENT.

ROOF PLAN KEYNOTES

1. MECHANICAL EQUIPMENT AND ROOF CURB BY M.C. M.C. TO SET CURB AND ANCHOR TO NEW STEEL SUPPORT. NEW STEEL SUPPORT BY G.C., TO BE IN PLACE PRIOR TO ANCHORING. REFER TO S SERIES DRAWINGS & SPEC SECTION 230550 FOR SUPPORT REQUIREMENTS AND LOCATION. G.C. AND M.C. TO COORDINATE FINAL LOCATION. G.C. TO FLASH INTO EXISTING ROOFING & PATCH ROOFING TO MATCH EXISTING AS REQ'D.
2. INFILL ROOF DECK AND ROOFING SYSTEM AT MECHANICAL UNIT REMOVAL

KEY PLAN:



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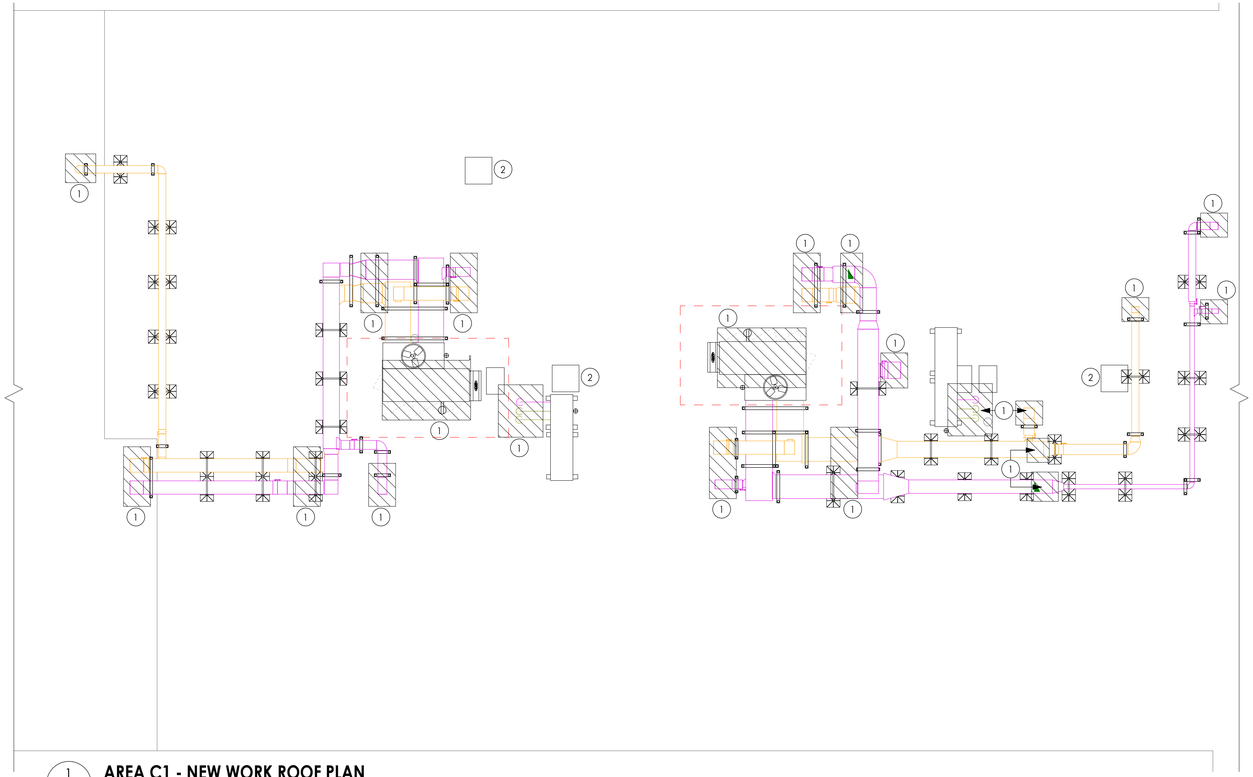
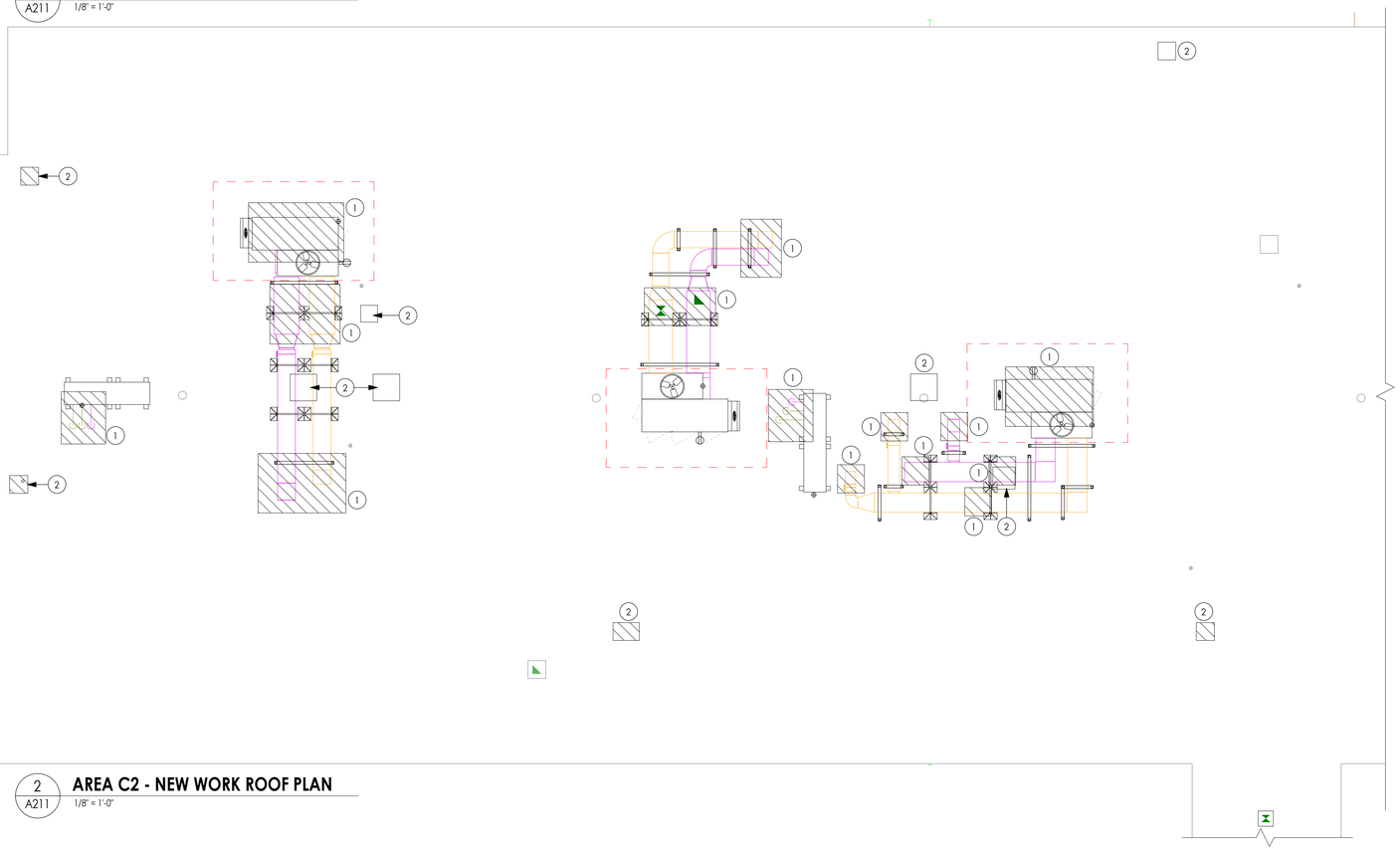
Drawn By: LF
Checked By: LT
Drawing Title: AREA B NEW WORK ROOF PLAN

Drawing Number
TZHS
A210



1 A211 **AREA C1 - NEW WORK ROOF PLAN**
1/8" = 1'-0"



2 A211 **AREA C2 - NEW WORK ROOF PLAN**
1/8" = 1'-0"

ROOF PLAN GENERAL NOTES

1. ALL DRAWINGS ARE GRAPHIC REPRESENTATIONS OF APPROXIMATE LOCATIONS OF MATERIALS. FIELD VERIFY ALL CONDITIONS PRIOR TO THE COMMENCEMENT OF WORK.
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ROOF PLAN LEGEND

PROVIDE NEW ROOFING SYSTEM TO MATCH EXISTING AT REMOVED MECHANICAL EQUIPMENT.

ROOF PLAN KEYNOTES

1. MECHANICAL EQUIPMENT AND ROOF CURB BY M.C. M.C. TO SET CURB AND ANCHOR TO NEW STEEL SUPPORT. NEW STEEL SUPPORT BY G.C., TO BE IN PLACE PRIOR TO ANCHORING. REFER TO S SERIES DRAWINGS & SPEC SECTION 230550 FOR SUPPORT REQUIREMENTS AND LOCATION. G.C. AND M.C. TO COORDINATE FINAL LOCATION. G.C. TO FLASH INTO EXISTING ROOFING & PATCH ROOFING TO MATCH EXISTING AS REQ'D.
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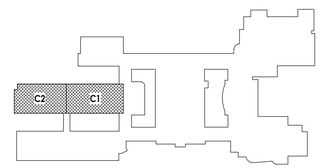

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Issued
10/25/2024

Scale
As indicated

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Drawn By
LF

Checked By
LT

Drawing Title
AREA C NEW WORK ROOF PLAN

Drawing Number
TZHS
A211

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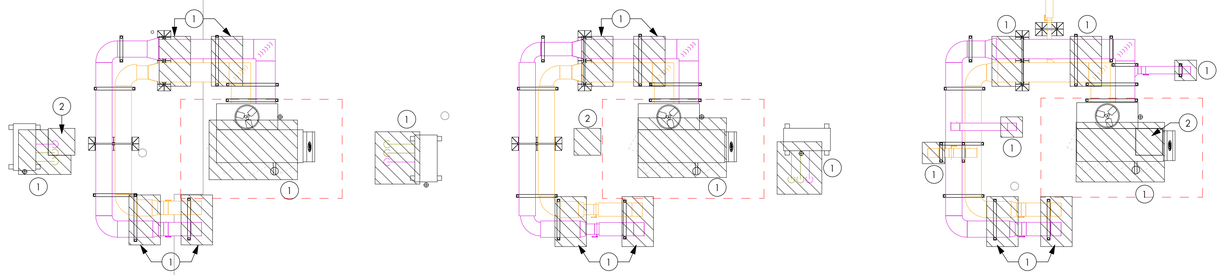
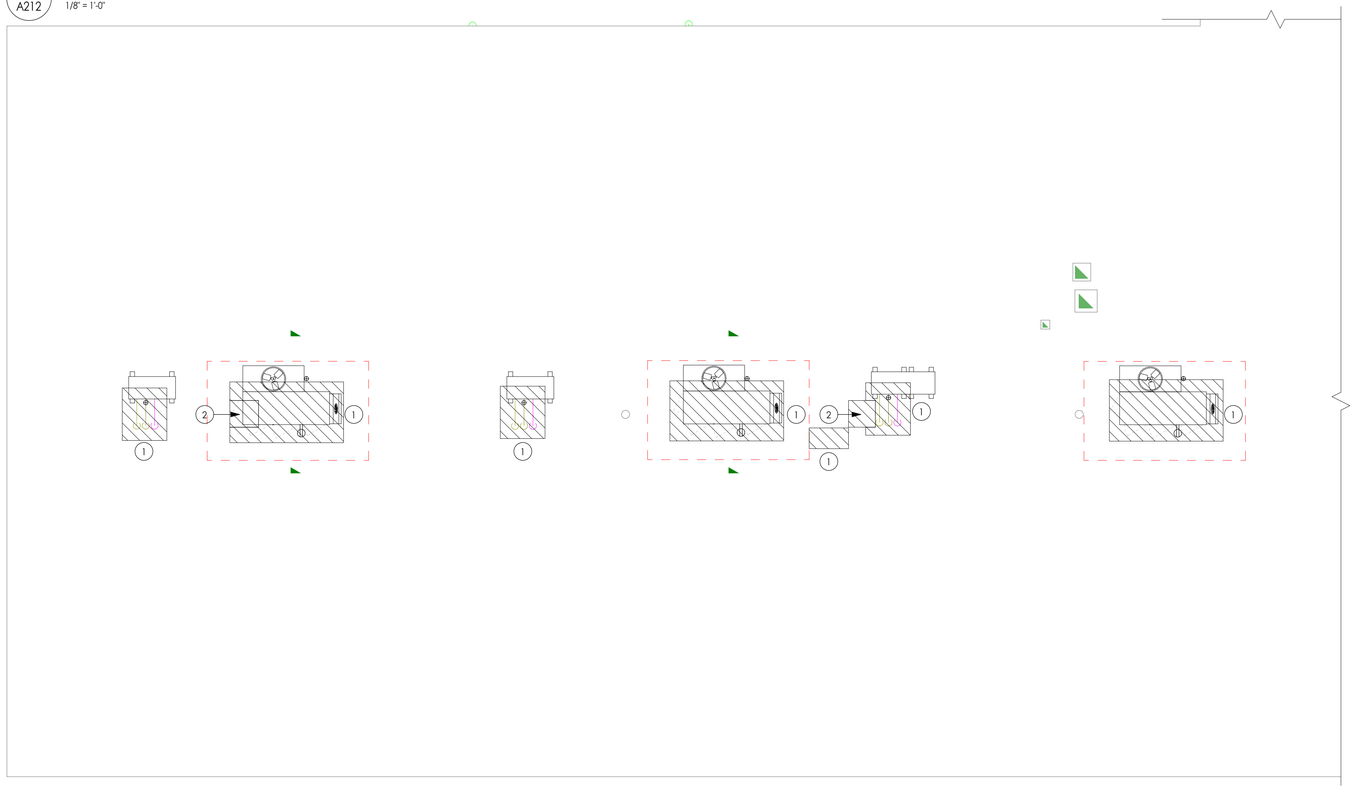


1 A212 **AREA D1 - NEW WORK ROOF PLAN**
1/8" = 1'-0"



2 A212 **AREA D2 - NEW WORK ROOF PLAN**
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15. ALL ROOFS TO HAVE MINIMUM R-VALUE OF R-30, (CLIMATE ZONE 4, ZONE 5 & ZONE 6) ALL ROOFS TO HAVE MINIMUM R-VALUE OF R-25 (CLIMATE ZONE 3)
16. UPON COMPLETION OF WORK, THE PLUMBING CONTRACTOR SHALL SNAKE OUT ALL ROOF DRAINS AND VERIFY ALL ARE CLEAR AND LEFT IN A FREE FLOWING CONDITION.
17. ALL CURBS FOR MECHANICAL EQUIPMENT SHALL BE PROVIDED BY THE MECHANICAL CONTRACTOR AND INSTALLED BY THE GENERAL CONTRACTOR. ASSOCIATED ROOF/FLASHING BY GENERAL CONTRACTOR.
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ROOF PLAN LEGEND

PROVIDE NEW ROOFING SYSTEM TO MATCH EXISTING AT REMOVED MECHANICAL EQUIPMENT.

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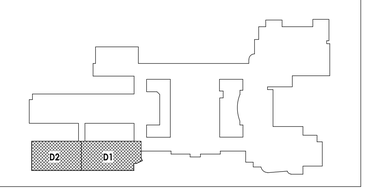

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15 DUTCH HILL ROAD, ORANGEBURG, NY 10962

SED # 50-03-01-06-0-006-033

Registration Expiration Dates
Lauren Tonio 09/30/26
Anthony Marchetti 05/31/27
Dave Hart 02/28/25
Jennifer Wengender 06/30/27

PROJECT ISSUE & REVISION SCHEDULE

#	Date	Description

PROFESSIONAL STAMPS

NEW YORK STATE EDUCATION STATEMENT
IT IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND THE COMMISSIONER'S REGULATIONS FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED ARCHITECT, ENGINEER OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE SEAL OF AN ARCHITECT, ENGINEER OR SURVEYOR IS ALTERED, THE ALTERING ARCHITECT, ENGINEER OR LAND SURVEYOR SHALL AFFIX TO THE ALTERED ITEM HIS/HER SEAL AND THE NOTATION "ALTERED" BY" FOLLOWED BY HIS/HER SIGNATURE AND THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

SHEET INFORMATION

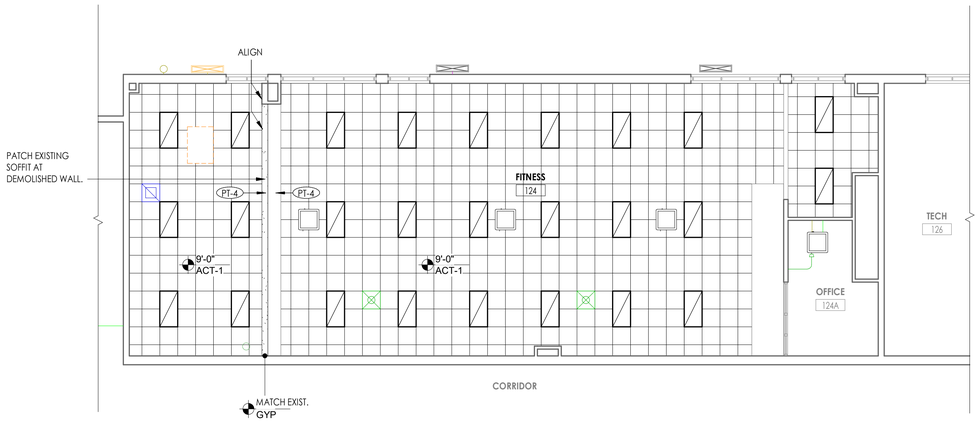
Issued	Scale
10/25/2024	As indicated

Project Status
BID DOCUMENTS

Drawn By	Checked By
LF	LT

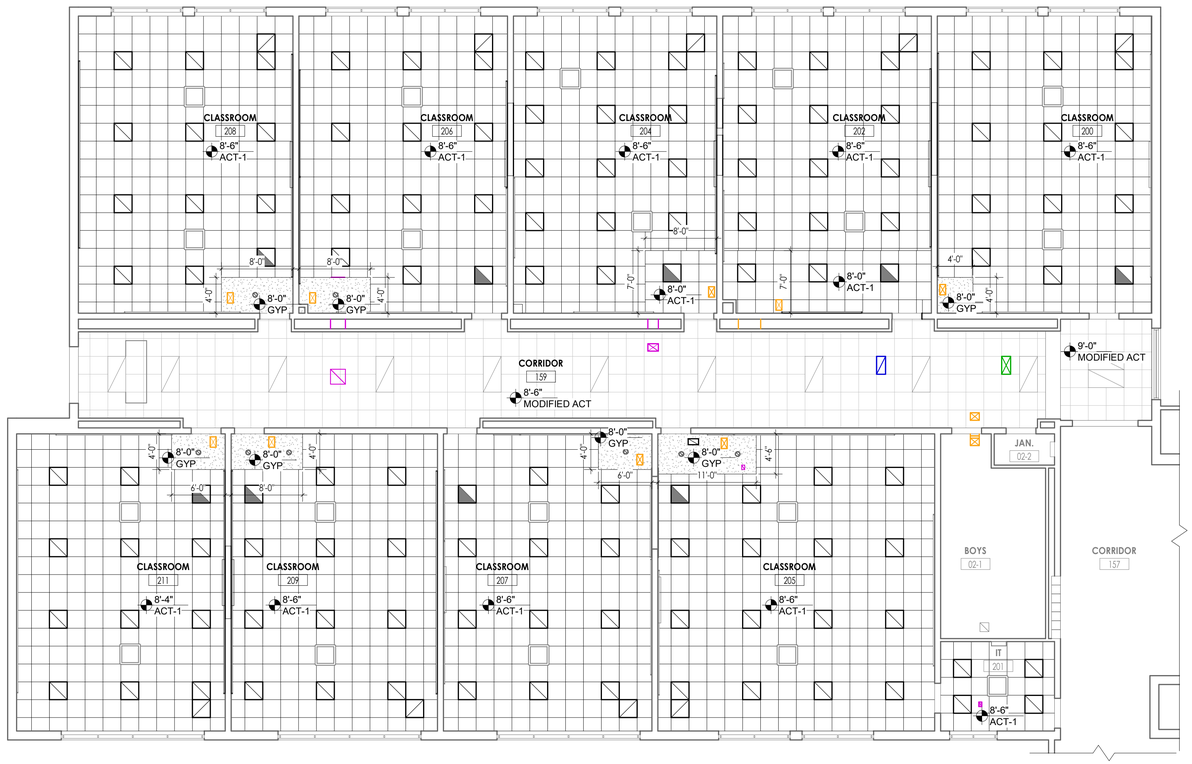
Drawing Title
AREA D NEW WORK ROOF PLAN

Drawing Number
TZHS
A212



2 / A601 **AREA E - REFLECTED CEILING PLAN - FITNESS ROOM**

1/8" = 1'-0"



1 / A601 **AREA B - FIRST FLOOR REFLECTED CEILING PLAN**

1/8" = 1'-0"

GENERAL CEILING NOTES

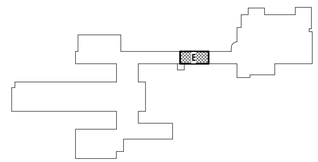
1. ALL DRAWINGS ARE GRAPHIC REPRESENTATION OF APPROXIMATE LOCATIONS OF NEW MATERIALS FOR CONSTRUCTION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY ALL CONDITIONS PRIOR TO COMMENCEMENT OF WORK.
2. REFER TO A200 SERIES FOR FLOOR PLAN.
3. FOR ANY DISCREPANCY BETWEEN THE REFLECTED CEILING PLAN AND THE FLOOR PLAN; THE FLOOR PLAN SHALL TAKE PRECEDENCE. ANY DISCREPANCY SHALL BE CALLED TO THE ATTENTION OF THE ARCHITECT.
4. FIRE STOP MECHANICAL, ELECTRICAL AND PLUMBING ITEMS, INCLUDING BUT NOT LIMITED TO DUCTWORK AND CONDUIT PENETRATIONS THROUGH FLOORS AND WALLS.
5. COORDINATE CEILING INSTALLATIONS WITH MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS.
6. REFER TO "H" SERIES DRAWINGS FOR DIFFUSERS AND GRILLE LOCATIONS.
7. REFER TO "E" SERIES DRAWINGS FOR LIGHTING TYPES AND CONTROLS.
8. REFER TO "P" OR "FP" SERIES DRAWINGS FOR SPRINKLER HEAD LOCATIONS.
9. WORK AREAS SHALL BE MAINTAINED AND ALL WORK AREAS SHALL BE LEFT BROOMED CLEAN AT THE END OF EACH DAY.
10. CENTER CEILING GRID (EACH WAY) IN ROOMS SCHEDULED TO RECEIVE ACOUSTICAL CEILING SYSTEMS UNLESS OTHERWISE NOTED.
11. VERIFY WITH ARCHITECT THE INSTALLATION OF ANY CEILING TILES LESS THAN 4" IN WIDTH.
12. PROVIDE MOISTURE RESISTANT GYP. BD. AT ALL TOILET ROOM, JANITOR'S CLOSET AND OTHER WET LOCATION CEILING ASSEMBLIES.
13. ALL GYP. BD. CEILINGS AND SOFFITS SHALL BE PRIMED AND PAINTED SCHEDULED COLOR ON ALL FACES AND UNDERSIDE SURFACE.
14. VERIFY SOFFIT SIZE WITH MILLWORK SHOP DRAWINGS. PROVIDE 2" OVERHANG ON EXPOSED EDGES UNLESS NOTED OTHERWISE.
15. WHERE APPLICABLE ALL FIXTURES AND DEVICES SHALL BE CENTERED ON A CEILING TILE.
16. INSTALL CONTROL JOINTS IN GYP. CEILINGS PER ASTM C 840.

CEILING SYMBOL LEGEND

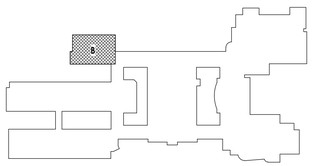
NOTE: THIS LEGEND MAY CONTAIN SYMBOLS THAT ARE NOT USED IN THIS PROJECT.

	2'X2' LIGHT BY E.C.
	SUPPLY AIR DIFFUSERS BY M.C.
	RETURN AIR REGISTER BY M.C.
	GYPSUM WALL BOARD CEILING
	ACOUSTICAL CEILING TILES
	RE-INSTALL SALVAGED ACOUSTICAL CEILING TILES
9'-0" ACT-1	CEILING TYPE AND CEILING HEIGHT ABOVE FINISHED FLOOR
9'-0" MODIFIED ACT	MODIFIED ACT CEILING SYSTEM BY GC PROVIDE NEW GRID & REINSTALL SALVAGED CEILING TILES

KEY PLAN:



KEY PLAN:



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26 IBM Road
Poughkeepsie, NY 12601
CPLeam.com

NY ENGINEERING FIRM CERTIFICATE #0021419

SOUTH ORANGETOWN Central School District
Capital Improvements Bond
Essential Infrastructure for Student Health, Safety and Success

PROJECT INFORMATION

Project Number
R22.14457.20

Client Name
SOUTH ORANGETOWN CENTRAL SCHOOL DISTRICT

Project Name
PHASE 2: 2022 BOND

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SHEET INFORMATION

Issued: 10/25/2024
Scale: As indicated
Project Status: BID DOCUMENTS
Drawn By: LF
Checked By: LT
Drawing Title: AREA B & E REFLECTED CEILING PLAN
Drawing Number: TZHS A601

1 A602 **AREA C1 - FIRST FLOOR REFLECTED CEILING PLAN**

1/8" = 1'-0"

2 A602 **AREA C2 - FIRST FLOOR REFLECTED CEILING PLAN**

1/8" = 1'-0"

GENERAL CEILING NOTES

1. ALL DRAWINGS ARE GRAPHIC REPRESENTATION OF APPROXIMATE LOCATIONS OF NEW MATERIALS FOR CONSTRUCTION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY ALL CONDITIONS PRIOR TO COMMENCEMENT OF WORK.
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3. FOR ANY DISCREPANCY BETWEEN THE REFLECTED CEILING PLAN AND THE FLOOR PLAN; THE FLOOR PLAN SHALL TAKE PRECEDENCE. ANY DISCREPANCY SHALL BE CALLED TO THE ATTENTION OF THE ARCHITECT.
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7. REFER TO 'E' SERIES DRAWINGS FOR LIGHTING TYPES AND CONTROLS.
8. REFER TO 'P' OR 'FP' SERIES DRAWINGS FOR SPRINKLER HEAD LOCATIONS.
9. WORK AREAS SHALL BE MAINTAINED AND ALL WORK AREAS SHALL BE LEFT BROOMED CLEAN AT THE END OF EACH DAY.
10. CENTER CEILING GRID (EACH WAY) IN ROOMS SCHEDULED TO RECEIVE ACOUSTICAL CEILING SYSTEMS UNLESS OTHERWISE NOTED.
11. VERIFY WITH ARCHITECT THE INSTALLATION OF ANY CEILING TILES LESS THAN 4" IN WIDTH.
12. PROVIDE MOISTURE RESISTANT GYP. BD. AT ALL TOILET ROOM, JANITOR'S CLOSET AND OTHER WET LOCATION CEILING ASSEMBLIES.
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14. VERIFY SOFFIT SIZE WITH MILLWORK SHOP DRAWINGS. PROVIDE 2" OVERHANG ON EXPOSED EDGES UNLESS NOTED OTHERWISE.
15. WHERE APPLICABLE ALL FIXTURES AND DEVICES SHALL BE CENTERED ON A CEILING TILE.
16. INSTALL CONTROL JOINTS IN GYP. CEILINGS PER ASTM C 840.

CEILING SYMBOL LEGEND

NOTE: THIS LEGEND MAY CONTAIN SYMBOLS THAT ARE NOT USED IN THIS PROJECT.

	2'X2' LIGHT BY E.C.
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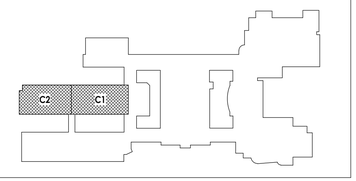
	RE-INSTALL SALVAGED ACOUSTICAL CEILING TILES
9'-0" ACT-1	CEILING TYPE AND CEILING HEIGHT ABOVE FINISHED FLOOR
9'-0" MODIFIED ACT	MODIFIED ACT CEILING SYSTEM BY GC. PROVIDE NEW GRID & REINSTALL SALVAGED CEILING TILES

KEY PLAN:



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NY ENGINEERING FIRM CERTIFICATE #0021419

SOUTH ORANGETOWN Central School District
Capital Improvements Bond
Essential Infrastructure for Student Health, Safety and Success

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SHEET INFORMATION

Issued
10/25/2024

Scale
As indicated

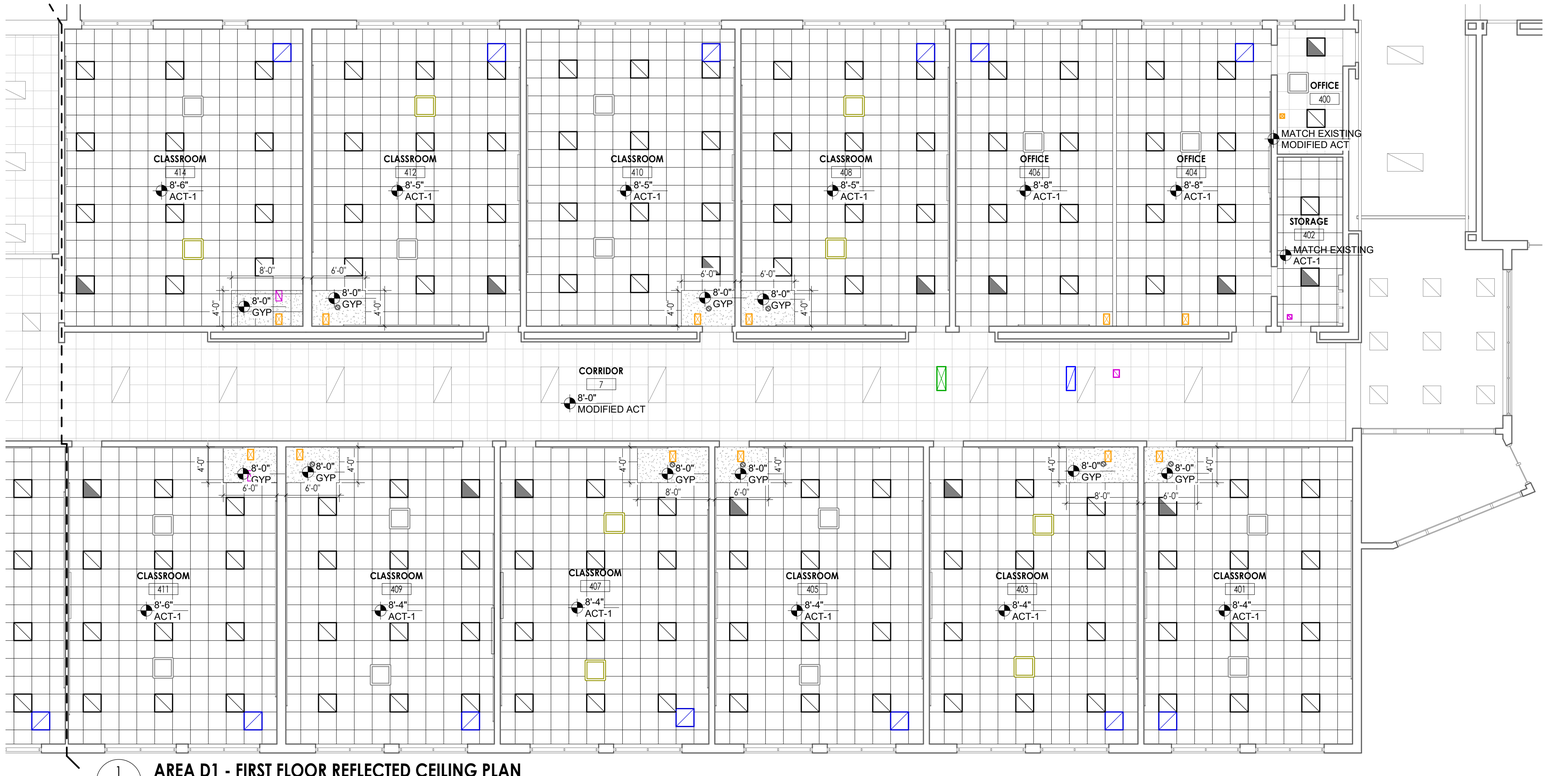
Project Status
BID DOCUMENTS

Drawn By
LF

Checked By
LT

Drawing Title
AREA C REFLECTED CEILING PLAN

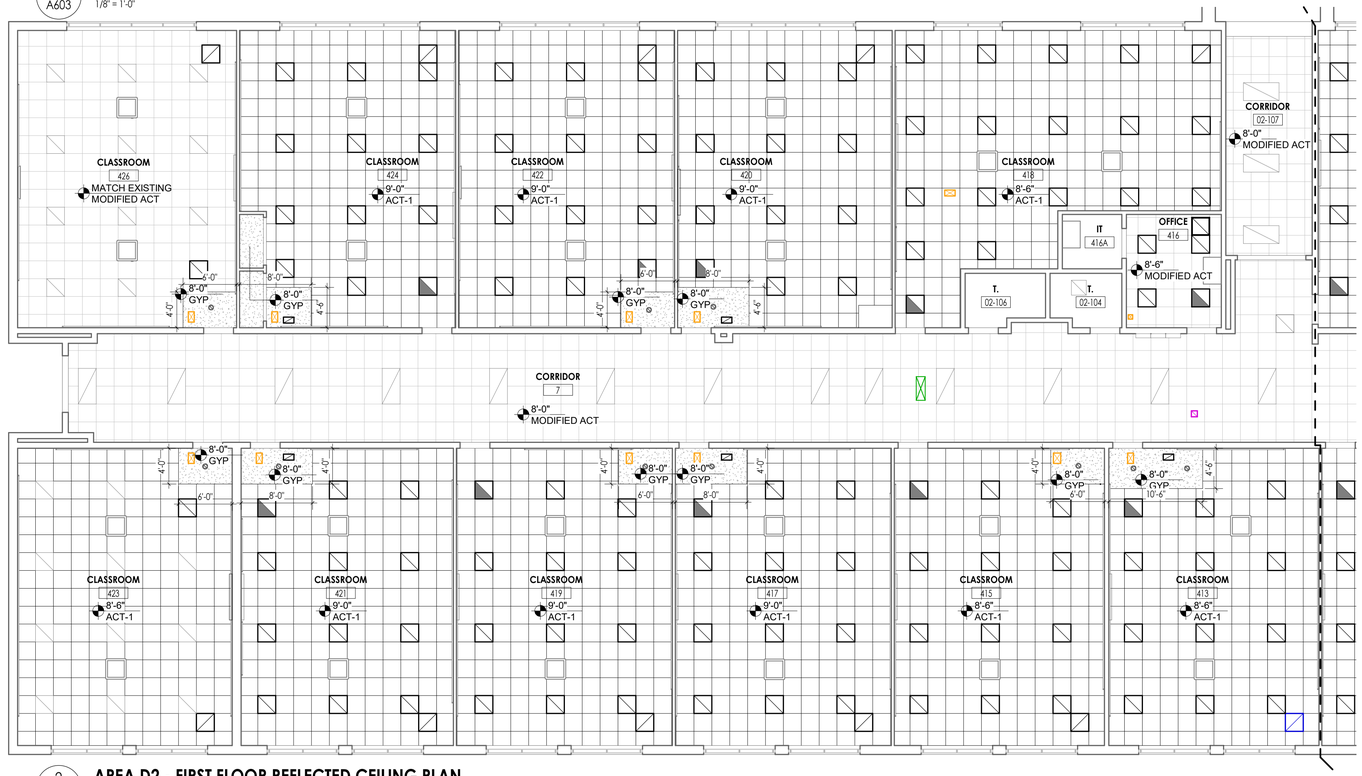
Drawing Number
TZHS
A602



1 A603

AREA D1 - FIRST FLOOR REFLECTED CEILING PLAN

1/8" = 1'-0"



2 A603

AREA D2 - FIRST FLOOR REFLECTED CEILING PLAN

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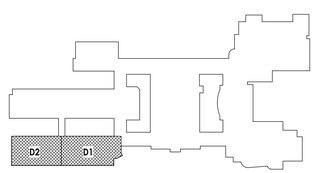

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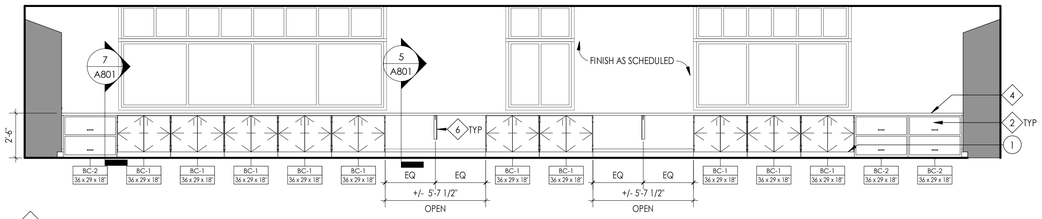
Drawn By	Checked By
LF	LT

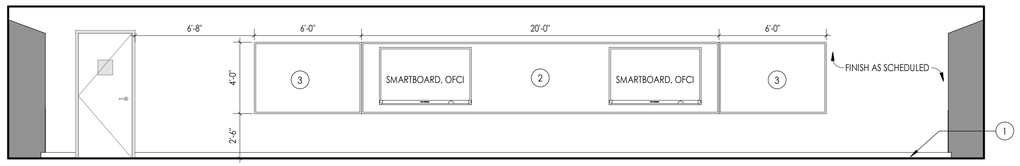
Drawing Title
AREA D REFLECTED CEILING PLAN

Drawing Number
TZHS
A603



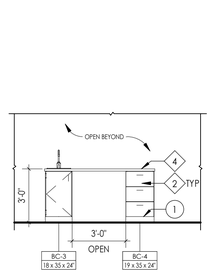
14 A700 SCIENCE CLASSROOM 316 - ELEVATION D

1/4" = 1'-0"



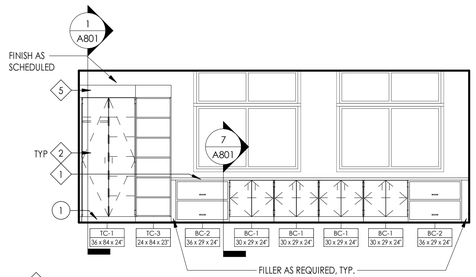
12 A700 SCIENCE CLASSROOM 316 - ELEVATION B

1/4" = 1'-0"



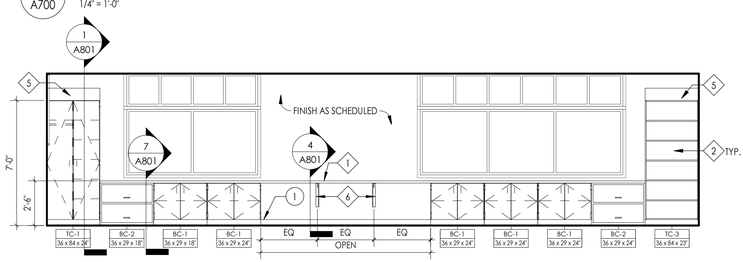
10 A700 DEMONSTRATION TABLE ELEVATION

1/4" = 1'-0"



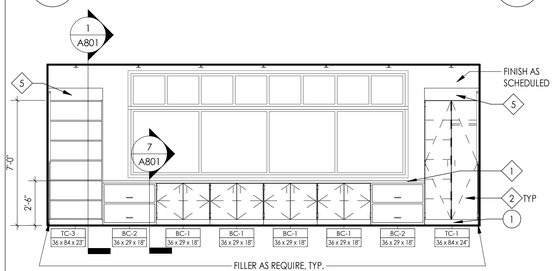
9 A700 CASEWORK ELEVATION AT ROOM 315

1/4" = 1'-0"



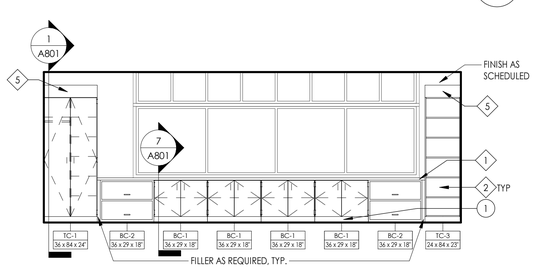
8 A700 CASEWORK ELEVATION AT ROOM 319 AND 418

1/4" = 1'-0"



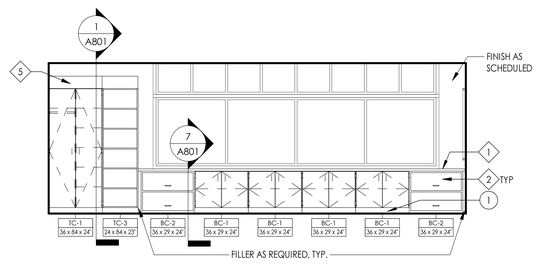
7 A700 TYPICAL CLASSROOM INTERIOR ELEVATION - TYPE F

1/4" = 1'-0"



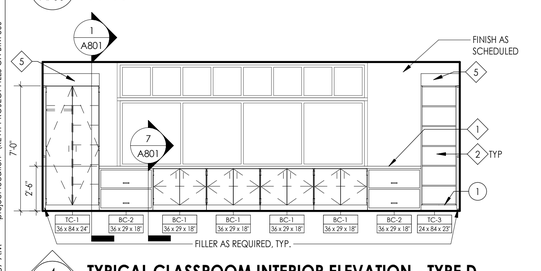
6 A700 CASEWORK ELEVATION AT ROOM 412

1/4" = 1'-0"



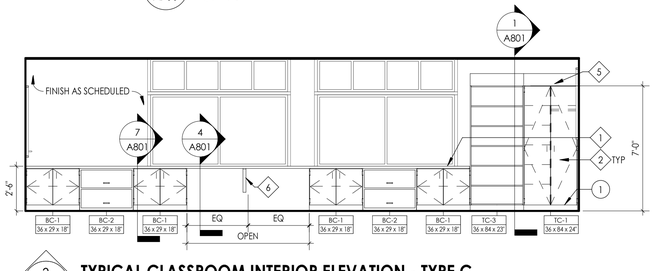
5 A700 TYPICAL CLASSROOM INTERIOR ELEVATION - TYPE E

1/4" = 1'-0"



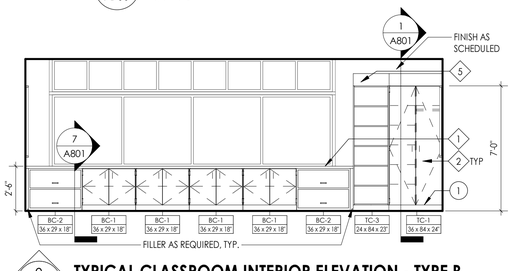
4 A700 TYPICAL CLASSROOM INTERIOR ELEVATION - TYPE D

1/4" = 1'-0"



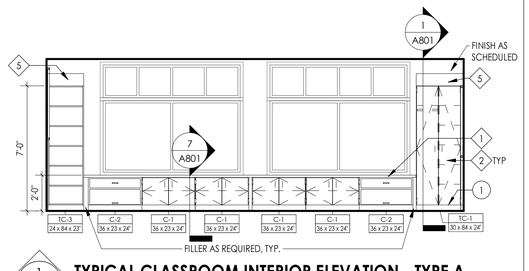
3 A700 TYPICAL CLASSROOM INTERIOR ELEVATION - TYPE C

1/4" = 1'-0"



2 A700 TYPICAL CLASSROOM INTERIOR ELEVATION - TYPE B

1/4" = 1'-0"

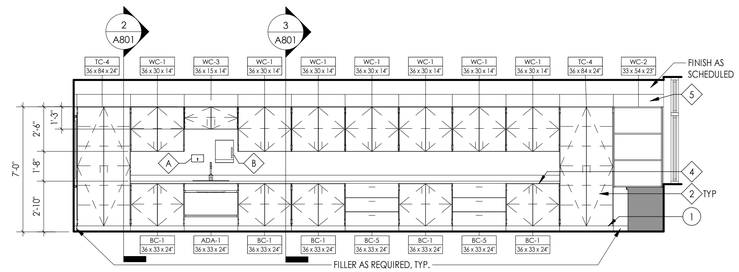


1 A700 TYPICAL CLASSROOM INTERIOR ELEVATION - TYPE A

1/4" = 1'-0"

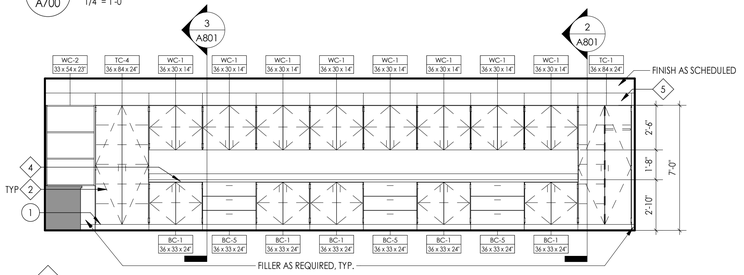
13 A700 SCIENCE CLASSROOM 316 - ELEVATION C

1/4" = 1'-0"



11 A700 SCIENCE CLASSROOM 316 - ELEVATION A

1/4" = 1'-0"



GENERAL INTERIOR ELEVATIONS NOTES

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2. FIELD VERIFY ALL DIMENSIONS PRIOR TO SHOP DRAWING SUBMITTAL.
3. PROVIDE SUPPORT BLOCKING AND STRAPPING FOR ALL MILLWORK, CASEWORK, AND WALL MOUNTED ACCESSORIES.
4. REFER TO FINISH SCHEDULE AND COLOR LEGEND FOR FINISHES.
5. REFER TO **A200 SERIES** DRAWINGS FOR ADDITIONAL SPECIALTIES.
6. REFER TO **A400 SERIES** DRAWINGS FOR CEILING HEIGHTS.
7. PROVIDE FULL FINISHED END PANELS ON ALL EXPOSED MILLWORK.
8. PROVIDE FILLER PANEL WHERE MILLWORK MEETS WALL.
9. PROVIDE SUPPORT BRACKETS AT WORK SURFACES, 48" MAX BETWEEN BRACKETS UNLESS NOTED OTHERWISE.
10. GROMMETS TO BE INSTALLED IN FIELD AND COORDINATED WITH I.T. EQUIPMENT.
11. ALL MILLWORK TO BE LOCKABLE UNLESS NOTED OTHERWISE.
12. PROVIDE VALANCE COVER AT ALL UNDER CABINET LIGHTING WHEREVER UNDER CABINET LIGHTING IS REQUIRED.
13. REFER TO FINISH SCHEDULE AND **A700 SERIES** DRAWINGS FOR MILLWORK FINISHES.
14. EQUIPMENT SHOWN ON THESE DOCUMENTS ARE FOR REFERENCE ONLY AND ARE FOR THE COORDINATION OF M.E.P. INFRASTRUCTURE TO OPERATE ITEMS UNDER THIS SCOPE.
15. IT IS THE GENERAL CONTRACTORS RESPONSIBILITY TO REFER TO OWNER FURNISHED EQUIPMENT DRAWINGS AND SUBMITTALS FOR FINAL COORDINATION AND INSTALLATION REQUIREMENTS INCLUDING BUT NOT LIMITED TO: DIMENSIONS AND LOCATIONS OF MEP CONNECTION LOCATIONS.
16. ALL FURNITURE IS PROVIDED BY OWNER UNLESS NOTED OTHERWISE.

INTERIOR ELEVATION ACCESSORIES

INTERIOR ELEVATION KEYNOTES

INTERIOR ELEVATION KEYNOTES PERTAIN TO GC

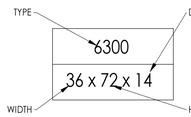
1. PROVIDE WALL BASE AS SCHEDULED. RE: I-SERIES AND DETAILS FOR ADDITIONAL INFORMATION.
2. PROVIDE VINYL WRITEABLE/MAGNETIC SURFACE. WS-1. RE: I-SERIES FOR ADDITIONAL DETAILS.
3. PROVIDE TACKABLE SURFACE. TS-1. RE: I-SERIES FOR ADDITIONAL DETAILS.

CASEWORK KEYNOTES

CASEWORK KEYNOTES PERTAIN TO CASEWORK INSTALLER

1. PROVIDE HPL COUNTERTOP (HPL-2).
2. PROVIDE HPL CASEWORK, FILLERS & END PANELS AS REQUIRED (HPL-1).
3. PROVIDE SOLID SURFACE MATERIAL WALL CAP, SSM-1.
4. PROVIDE SSM COUNTERTOP, SSM-1
5. 30° SLOPED TOP, TYPICAL.
6. STAINLESS STEEL SUPPORT BRACKET; 4'-0" O.C. MAX. BASIS OF DESIGN RAKKS CONCEALED STAINLESS STEEL SUPPORT BRACKET; 4'-0" O.C. MAX. BASIS OF DESIGN: RAKKS EH-1818 FM

CASEWORK LEGEND



NOTE: ALL CASEWORK NUMBERS DENOTE COMPLETE CABINET SYSTEMS AND HARDWARE. ALL CABINETS TO RECEIVE LOCKS AND TO BE KEYED AS DETERMINED BY OWNER & ARCHITECT. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.

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NY ENGINEERING FIRM CERTIFICATE #0021419

SOUTH ORANGETOWN Central School District
Capital Improvements Bond
Essential Infrastructure for Student Health, Safety and Success

PROJECT INFORMATION

Project Number
R22.14457.20

Client Name
SOUTH ORANGETOWN CENTRAL SCHOOL DISTRICT

Project Name
PHASE 2: 2022 BOND

TAPPAN ZEE HIGH SCHOOL

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SED # 50-03-01-06-0-006-033

Registration Expiration Dates
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Dave Hart 02/28/25
Jennifer Wengender 06/30/27

PROJECT ISSUE & REVISION SCHEDULE

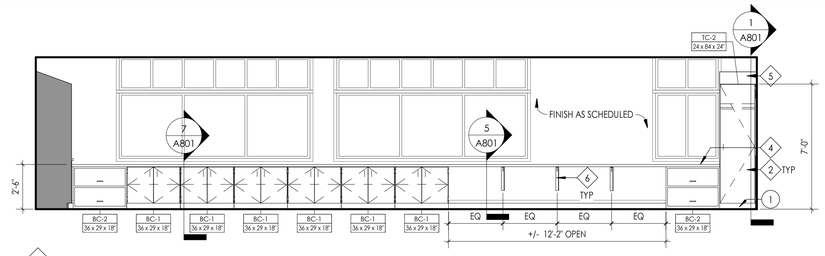
#	Date	Description

PROFESSIONAL STAMPS

SHEET INFORMATION

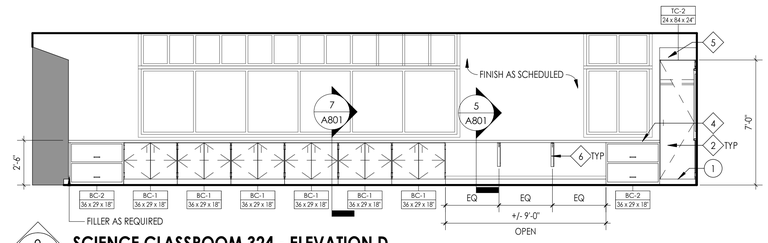
Issued: 10/25/2024
Scale: As indicated
Project Status: BID DOCUMENTS
Drawn By: LF
Checked By: LT
Drawing Title: TYPICAL CLASSROOM ELEVATIONS

Drawing Number
TZHS
A700



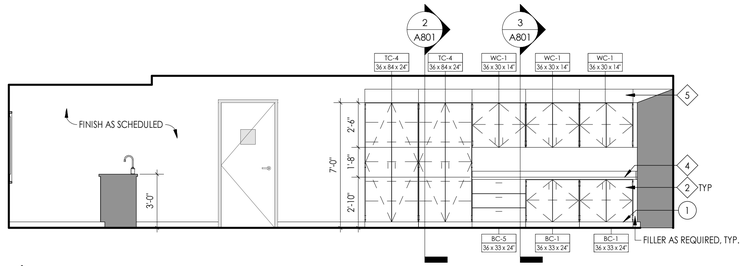
10 A701 **SCIENCE CLASSROOM 320 - ELEVATION D**

1/4" = 1'-0"



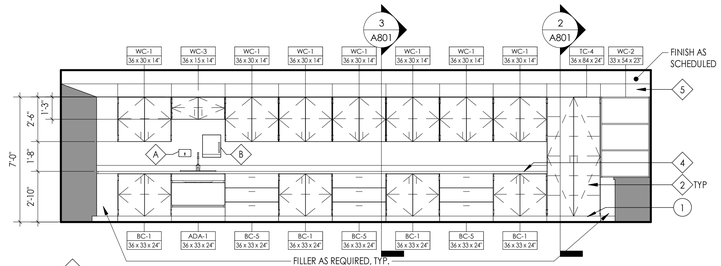
9 A701 **SCIENCE CLASSROOM 324 - ELEVATION D**

1/4" = 1'-0"



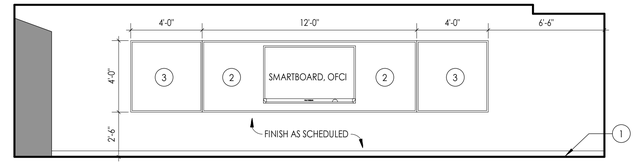
7 A701 **SCIENCE CLASSROOM 324/320 - ELEVATION B**

1/4" = 1'-0"



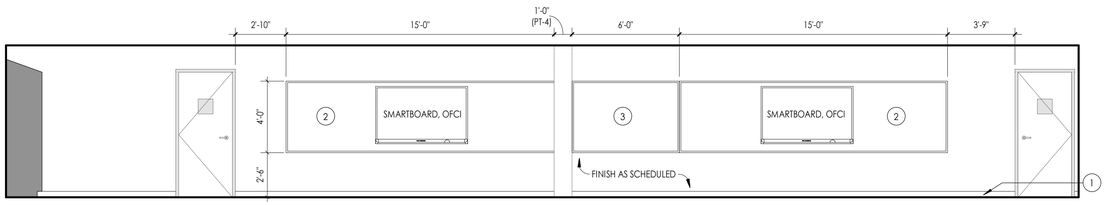
8 A701 **SCIENCE CLASSROOM 324/320 - ELEVATION C**

1/4" = 1'-0"



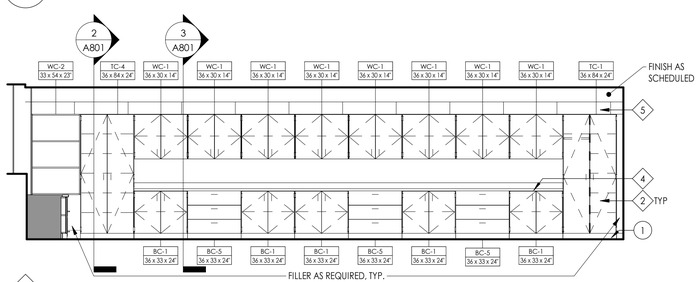
6 A701 **SCIENCE CLASSROOM 324/320 - ELEVATION A**

1/4" = 1'-0"



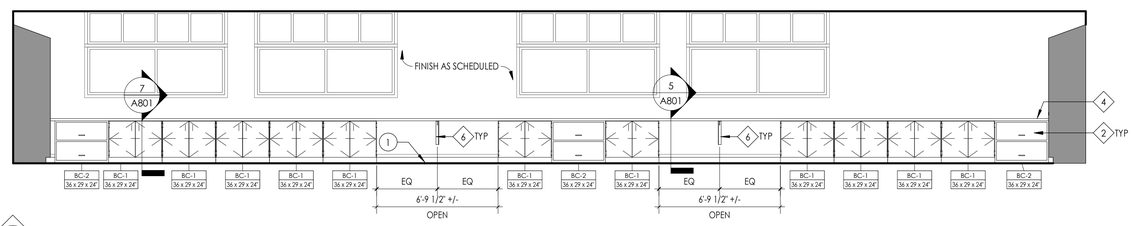
4 A701 **SCIENCE CLASSROOM 323 - ELEVATION D**

1/4" = 1'-0"



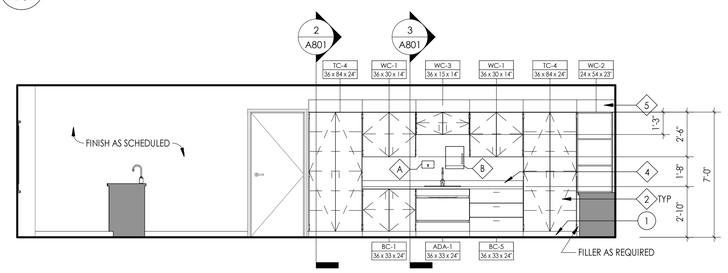
3 A701 **SCIENCE CLASSROOM 323 - ELEVATION C**

1/4" = 1'-0"



2 A701 **SCIENCE CLASSROOM 323 - ELEVATION B**

1/4" = 1'-0"



1 A701 **SCIENCE CLASSROOM 323 - ELEVATION A**

1/4" = 1'-0"

GENERAL INTERIOR ELEVATIONS NOTES

1. ALL DRAWINGS ARE GRAPHIC REPRESENTATIONS OF APPROXIMATE LOCATIONS OF EXISTING AND NEW MATERIALS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO COMMENCEMENT OF WORK.
2. FIELD VERIFY ALL DIMENSIONS PRIOR TO SHOP DRAWING SUBMITTAL.
3. PROVIDE SUPPORT BLOCKING AND STRAPPING FOR ALL MILLWORK, CASEWORK, AND WALL MOUNTED ACCESSORIES.
4. REFER TO FINISH SCHEDULE AND COLOR LEGEND FOR FINISHES.
5. REFER TO **A200 SERIES** DRAWINGS FOR ADDITIONAL SPECIALTIES.
6. REFER TO **A400 SERIES** DRAWINGS FOR CEILING HEIGHTS.
7. PROVIDE FULL FINISHED END PANELS ON ALL EXPOSED MILLWORK.
8. PROVIDE FILLER PANEL WHERE MILLWORK MEETS WALL.
9. PROVIDE SUPPORT BRACKETS AT WORK SURFACES, 48" MAX BETWEEN BRACKETS UNLESS NOTED OTHERWISE.
10. GROMMETS TO BE INSTALLED IN FIELD AND COORDINATED WITH I.T. EQUIPMENT.
11. ALL MILLWORK TO BE LOCKABLE UNLESS NOTED OTHERWISE.
12. PROVIDE VALANCE COVER AT ALL UNDER CABINET LIGHTING WHEREVER UNDER CABINET LIGHTING IS REQUIRED.
13. REFER TO FINISH SCHEDULE AND **A700 SERIES** DRAWINGS FOR MILLWORK FINISHES.
14. EQUIPMENT SHOWN ON THESE DOCUMENTS ARE FOR REFERENCE ONLY AND ARE FOR THE COORDINATION OF M.E.P. INFRASTRUCTURE TO OPERATE ITEMS UNDER THIS SCOPE.
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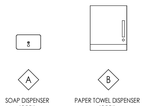
INTERIOR ELEVATION ACCESSORIES



INTERIOR ELEVATION KEYNOTES

INTERIOR ELEVATION KEYNOTES PERTAIN TO GC

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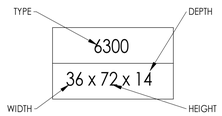
3. PROVIDE TACKABLE SURFACE, TS-1. RE: I-SERIES FOR ADDITIONAL DETAILS.

CASEWORK KEYNOTES

CASEWORK KEYNOTES PERTAIN TO CASEWORK INSTALLER

1. PROVIDE HPL COUNTERTOP (HPL-2).
2. PROVIDE HPL CASEWORK, FILLERS & END PANELS AS REQUIRED (HPL-1).
3. PROVIDE SOLID SURFACE MATERIAL WALL CAP, SSM-1.
4. PROVIDE SSM COUNTERTOP, SSM-1
5. 30° SLOPED TOP, TYPICAL.
6. STAINLESS STEEL SUPPORT BRACKET; 4'-0" O.C. MAX. BASIS OF DESIGN RAKKS CONCEALED STAINLESS STEEL SUPPORT BRACKET; 4'-0" O.C. MAX. BASIS OF DESIGN: RAKKS EH-1818 FM

CASEWORK LEGEND



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NY ENGINEERING FIRM CERTIFICATE #0021419

SOUTH ORANGETOWN Central School District
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Essential Infrastructure for Student Health, Safety and Success

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SED # 50-03-01-06-0-006-033

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PROJECT ISSUE & REVISION SCHEDULE

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PROFESSIONAL STAMPS

NEW YORK STATE EDUCATION STATEMENT

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SHEET INFORMATION

Issued
10/25/2024

Scale
As indicated

Project Status
BID DOCUMENTS

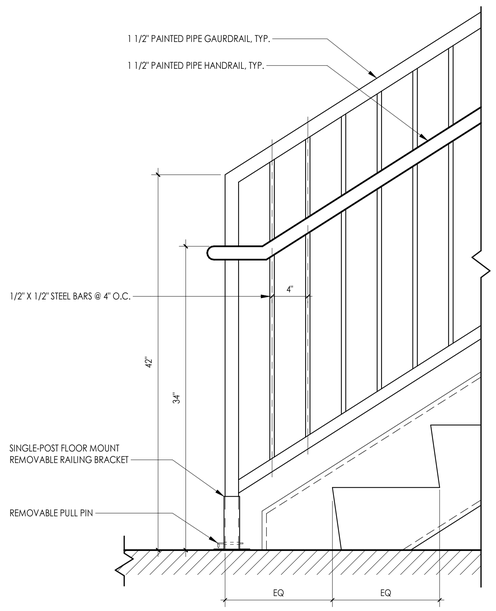
Drawn By
LF

Checked By
LT

Drawing Title
TYPICAL SCIENCE CLASSROOM ELEVATIONS

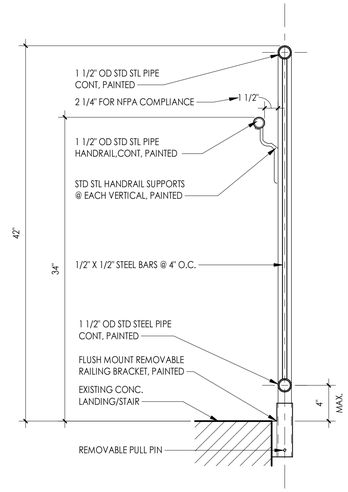
Drawing Number
TZHS
A701

10/25/2024 11:18:07 AM <project location>\ REVIT PROJECT FILES ON BIM 360



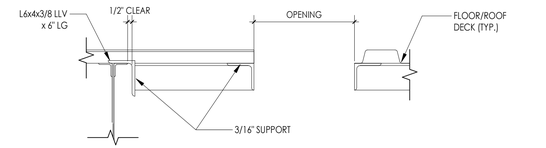
7 / A800 BOILER ROOM - ELEVATION OF STAIR END GUARDRAIL W/ HANDRAIL

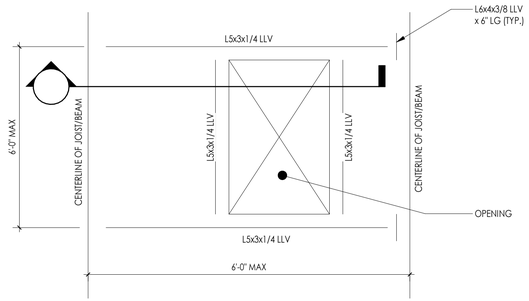
1 1/2" = 1'-0"



6 / A800 BOILER ROOM - SECTION THRU STAIR @ GUARDRAIL W/ HANDRAIL

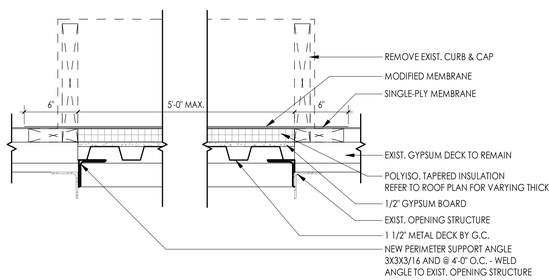
1 1/2" = 1'-0"





DETAIL NOTES:

1. THE ABOVE STEEL SIZES SHALL BE USED UNLESS NOTED OTHERWISE ON THE PLANS.
2. CONTRACTOR TO COORDINATE EQUIPMENT AND OPENING SUPPORTS WITH MECHANICAL CONTRACTOR AND FINAL APPROVED EQUIPMENT SUBMITTAL.

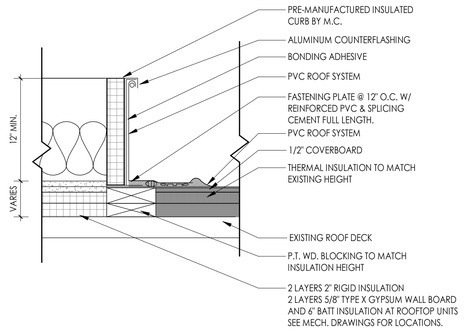


5 / A800 TYPICAL ROOF DECK INFILL DETAIL

1 1/2" = 1'-0"

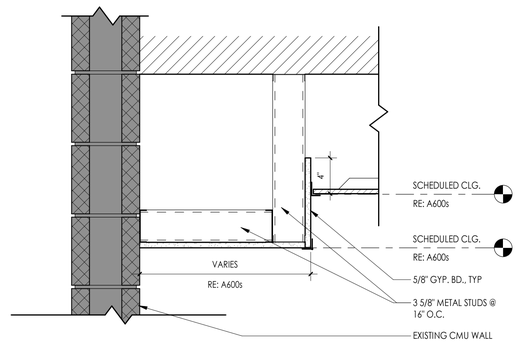
4 / A800 ROOF OPENING SUPPORT DETAIL

1/4" = 1'-0"



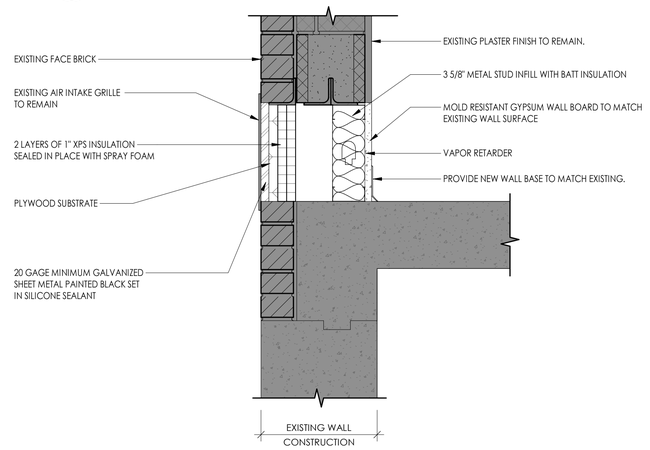
3 / A800 TYPICAL ROOF CURB DETAIL

1 1/2" = 1'-0"



2 / A800 TYP. GWB SOFFIT DETAIL @ WALL

1 1/2" = 1'-0"



1 / A800 EXTERIOR MASONRY INFILL

1 1/2" = 1'-0"

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NY ENGINEERING FIRM CERTIFICATE #0021419

SOUTH ORANGETOWN Central School District
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Essential Infrastructure for Student Health, Safety and Success

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SHEET INFORMATION

Issued: 10/25/2024
Scale: As indicated
Project Status: BID DOCUMENTS
Drawn By: CPL
Checked By: CPL
Drawing Title: TYPICAL DETAILS

Drawing Number
TZHS
A800

CASEWORK SCHEDULE

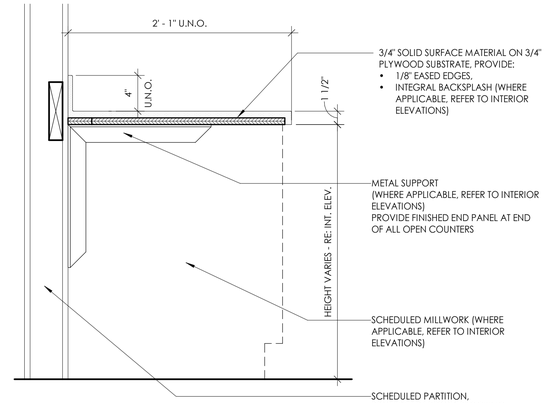
TYPE MARK	DESCRIPTION	DIMENSIONS	PRODUCT #	NOTES
ADA SINK APRON (ADA)				
ADA-1	ADA COMPLIANT SINK APRON	36" W X 34"H X 24"D	TMI #B2545	
BASE CABINET (BC)				
BC-1	2 DOORS, 1 ADJUSTABLE SHELF	VARIES; REF. A700 SERIES	TMI # B2052	
BC-2	2 EQUAL LATERAL FILE DRAWERS	VARIES; REF. A700 SERIES	TMI # D2804	
BC-3	1 DOOR SINK CABINET	18"W x 36"H x 24"D	TMI # B2500	DEMONSTRATION TABLE
BC-4	1 FILE DRAWER/2 EQUAL DRAWERS	19"W x 36"H x 24"D	TMI# 3862	DEMONSTRATION TABLE
BC-5	3 EQUAL DRAWERS	VARIES; REF. A700 SERIES	TMI # D3001	
BC-6	1 DOOR, 1 ADJUSTABLE SHELF	VARIES; REF. A700 SERIES	TMI # B2050, TMI # B2051	REFER TO ELEVATIONS FOR LEFT OR RIGHT HINGE PLACEMENT
CUSTOM (C)				
C-1	2 DOORS, 1 ADJUSTABLE SHELF	VARIES; REF. A700 SERIES	TMI #B2052	REFERENCE TMI PRODUCT FOR DESIGN INTENT; CABINET TO BE CUSTOM 24" HIGH.
C-2	2 EQUAL DRAWERS	VARIES; REF. A700 SERIES	TMI #D2001	REFERENCE TMI PRODUCT FOR DESIGN INTENT; CABINET TO BE CUSTOM 24" HIGH.
METAL CABINET (MC)				
MC-1	OPEN SHELVING, 1 ADJUSTABLE SHELF	36"W x 29"H x 16"D	TRANE # SHL-B-B-1-03	
TALL CABINET (TC)				
TC-1	2 DOOR WARDROBE	VARIES; REF. A700 SERIES	TMI # T2586, TMI #2590	REFER TO ELEVATIONS FOR LEFT OR RIGHT WARDROBE PLACEMENT
TC-2	1 DOOR WARDROBE	VARIES; REF. A700 SERIES	TMI # T2570, # T2571	REFER TO ELEVATIONS FOR LEFT OR RIGHT HINGE PLACEMENT
TC-3	ADJUSTABLE OPEN SHELVING	VARIES; REF. A700 SERIES	TMI # T1100	
TC-4	2 DOORS, 1 FIXED SHELF, 4 ADJUSTABLE SHELF	VARIES; REF. A700 SERIES	TMI # T2102	
WALL CABINET (WC)				
WC-1	2 DOORS, 1 ADJUSTABLE SHELF	VARIES; REF. A700 SERIES	TMI # W2052	
WC-2	OPEN SHELVING, 2 ADJUSTABLE SHELVES	VARIES; REF. A700 SERIES	TMI # H1050	

CASEWORK GENERAL NOTES:

***NOTE:**

1. ALL CASEWORK WITH DOORS/ DRAWERS TO RECEIVE LOCKS PER OWNER REQUEST. OWNER IS RESPONSIBLE FOR KEYING.

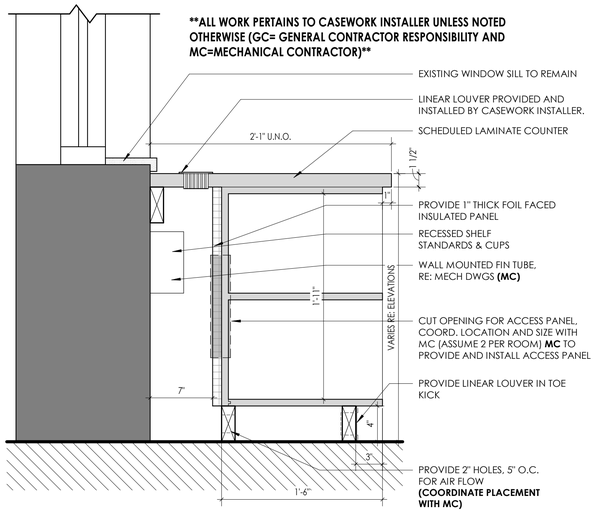
NOTE: CASEWORK PROVIDED AND INSTALLED BY CASEWORK CONTRACTOR. SHOWN FOR REFERENCE ONLY.



****ALL WORK PERTAINS TO CASEWORK INSTALLER UNLESS NOTED OTHERWISE (GC= GENERAL CONTRACTOR RESPONSIBILITY)****

5 A801 TYPICAL SOLID SURFACE WORKSURFACE SECTION

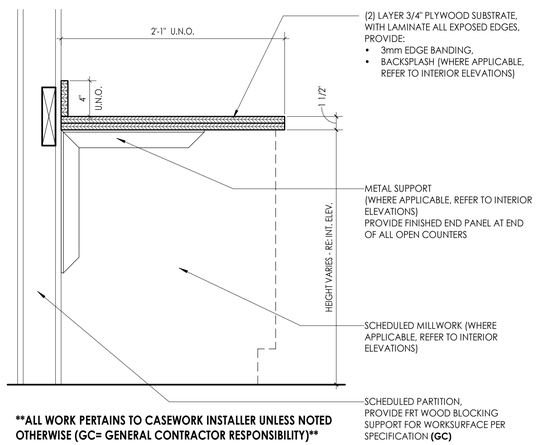
1 1/2" = 1'-0"



NOTE: REFER TO CASEWORK SCHEDULE FOR NUMBER OF DOORS/OPENINGS REQUIRED, VARIES.

7 A801 BASE CABINET W/ FIN TUBE VENTILATION

1 1/2" = 1'-0"



****ALL WORK PERTAINS TO CASEWORK INSTALLER UNLESS NOTED OTHERWISE (GC= GENERAL CONTRACTOR RESPONSIBILITY)****

4 A801 TYPICAL LAMINATE WORKSURFACE SECTION

1 1/2" = 1'-0"

****ALL WORK PERTAINS TO CASEWORK INSTALLER UNLESS NOTED OTHERWISE (GC= GENERAL CONTRACTOR RESPONSIBILITY)****

NOTE: REFER TO CASEWORK SCHEDULE FOR NUMBER OF DOORS/OPENINGS REQUIRED, VARIES.

3 A801 TYPICAL BASE AND UPPER CABINETS @SCIENCE

1 1/2" = 1'-0"

****ALL WORK PERTAINS TO CASEWORK INSTALLER UNLESS NOTED OTHERWISE (GC= GENERAL CONTRACTOR RESPONSIBILITY)****

NOTE: REFER TO CASEWORK SCHEDULE FOR NUMBER OF DOORS/DRAWERS REQUIRED, VARIES.

2 A801 TYPICAL TALL CABINET @ SCIENCE

1 1/2" = 1'-0"

****ALL WORK PERTAINS TO CASEWORK INSTALLER UNLESS NOTED OTHERWISE (GC= GENERAL CONTRACTOR RESPONSIBILITY AND MC=MECHANICAL CONTRACTOR)****

NOTE: REFER TO CASEWORK SCHEDULE FOR NUMBER OF DOORS/OPENINGS REQUIRED, VARIES.

1 A801 TALL CABINET W/ FIN TUBE VENTILATION

1 1/2" = 1'-0"

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PROFESSIONAL STAMPS

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SHEET INFORMATION

Issued 10/25/2024
Scale As indicated
Project Status BID DOCUMENTS
Drawn By CPL
Checked By CPL
Drawing Title MISC. DETAILS

Drawing Number
TZHS
A801

DOOR SCHEDULE

DOOR NUMBER	FIRE RATING (MIN)	PANEL TYPE: PANEL 1	PANEL TYPE: PANEL 2	DOOR PANELS: TOTAL PANEL DIMENSIONS: WIDTH	HEIGHT	THICKNESS	UNDERCUT	DOOR PANELS: PANEL FINISH	DOOR FRAME: FRAME TYPE	DOOR: COMMENTS
02-50A	90	PNL-F-WD	PNL-F-WD	6'-0"	7'-0"	0'-1 3/4"	0'-0"	WOOD	FRM-00ETR	
02-50B	90	PNL-F-WD	PNL-F-WD	6'-0"	7'-0"	0'-1 3/4"	0'-0"	WOOD	FRM-00ETR	
02-50C	90	PNL-F-WD	PNL-F-WD	6'-0"	7'-0"	0'-1 3/4"	0'-0"	WOOD	FRM-00ETR	
200	45	PNL-N-WD		3'-0"	7'-0"	0'-1 3/4"	0'-0"	WOOD	FRM-00ETR	
202	45	PNL-N-WD		3'-0"	7'-0"	0'-1 3/4"	0'-0"	WOOD	FRM-00ETR	
204	45	PNL-N-WD		3'-0"	7'-0"	0'-1 3/4"	0'-0"	WOOD	FRM-00ETR	
205	45	PNL-N-WD		3'-0"	7'-0"	0'-1 3/4"	0'-0"	WOOD	FRM-00ETR	EXISTING CARD READER TO REMAIN
206	45	PNL-N-WD		3'-0"	7'-0"	0'-1 3/4"	0'-0"	WOOD	FRM-00ETR	
207	45	PNL-N-WD		3'-0"	7'-0"	0'-1 3/4"	0'-0"	WOOD	FRM-00ETR	
208	45	PNL-N-WD		3'-0"	7'-0"	0'-1 3/4"	0'-0"	WOOD	FRM-00ETR	
209	45	PNL-N-WD		3'-0"	7'-0"	0'-1 3/4"	0'-0"	WOOD	FRM-00ETR	
211	45	PNL-N-WD		3'-0"	7'-0"	0'-1 3/4"	0'-0"	WOOD	FRM-00ETR	
301	45	PNL-N-WD		3'-0"	7'-0"	0'-1 3/4"	0'-0"	WOOD	FRM-00ETR	
303	45	PNL-N-WD		3'-0"	7'-0"	0'-1 3/4"	0'-0"	WOOD	FRM-00ETR	
304	45	PNL-N-WD		3'-0"	7'-0"	0'-1 3/4"	0'-0"	WOOD	FRM-00ETR	
305	45	PNL-N-WD		3'-0"	7'-0"	0'-1 3/4"	0'-0"	WOOD	FRM-00ETR	
306	45	PNL-N-WD		3'-0"	7'-0"	0'-1 3/4"	0'-0"	WOOD	FRM-00ETR	
307	45	PNL-N-WD		3'-0"	7'-0"	0'-1 3/4"	0'-0"	WOOD	FRM-00ETR	
308	45	PNL-N-WD		3'-0"	7'-0"	0'-1 3/4"	0'-0"	WOOD	FRM-00ETR	
309	45	PNL-N-WD		3'-0"	7'-0"	0'-1 3/4"	0'-0"	WOOD	FRM-00ETR	
310	45	PNL-N-WD		3'-0"	7'-0"	0'-1 3/4"	0'-0"	WOOD	FRM-00ETR	
311	45	PNL-N-WD		3'-0"	7'-0"	0'-1 3/4"	0'-0"	WOOD	FRM-00ETR	
317	45	PNL-N-WD		3'-0"	7'-0"	0'-1 3/4"	0'-0"	WOOD	FRM-00ETR	
319	45	PNL-N-WD		3'-0"	7'-0"	0'-1 3/4"	0'-0"	WOOD	FRM-00ETR	
401	45	PNL-N-WD		3'-0"	7'-0"	0'-1 3/4"	0'-0"	WOOD	FRM-00ETR	
403	45	PNL-N-WD		3'-0"	7'-0"	0'-1 3/4"	0'-0"	WOOD	FRM-00ETR	
404	45	PNL-N-WD		3'-0"	7'-0"	0'-1 3/4"	0'-0"	WOOD	FRM-00ETR	
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413	45	PNL-N-WD		3'-0"	7'-0"	0'-1 3/4"	0'-0"	WOOD	FRM-00ETR	
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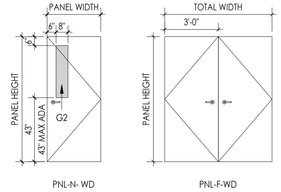
417	45	PNL-N-WD		3'-0"	7'-0"	0'-1 3/4"	0'-0"	WOOD	FRM-00ETR	
418	45	PNL-N-WD		3'-0"	7'-0"	0'-1 3/4"	0'-0"	WOOD	FRM-00ETR	
419	45	PNL-N-WD		3'-0"	7'-0"	0'-1 3/4"	0'-0"	WOOD	FRM-00ETR	
421	45	PNL-N-WD		3'-0"	7'-0"	0'-1 3/4"	0'-0"	WOOD	FRM-00ETR	
422	45	PNL-N-WD		3'-0"	7'-0"	0'-1 3/4"	0'-0"	WOOD	FRM-00ETR	
423	45	PNL-N-WD		3'-0"	7'-0"	0'-1 3/4"	0'-0"	WOOD	FRM-00ETR	
424	45	PNL-N-WD		3'-0"	7'-0"	0'-1 3/4"	0'-0"	WOOD	FRM-00ETR	
426	45	PNL-N-WD		3'-0"	7'-0"	0'-1 3/4"	0'-0"	WOOD	FRM-00ETR	

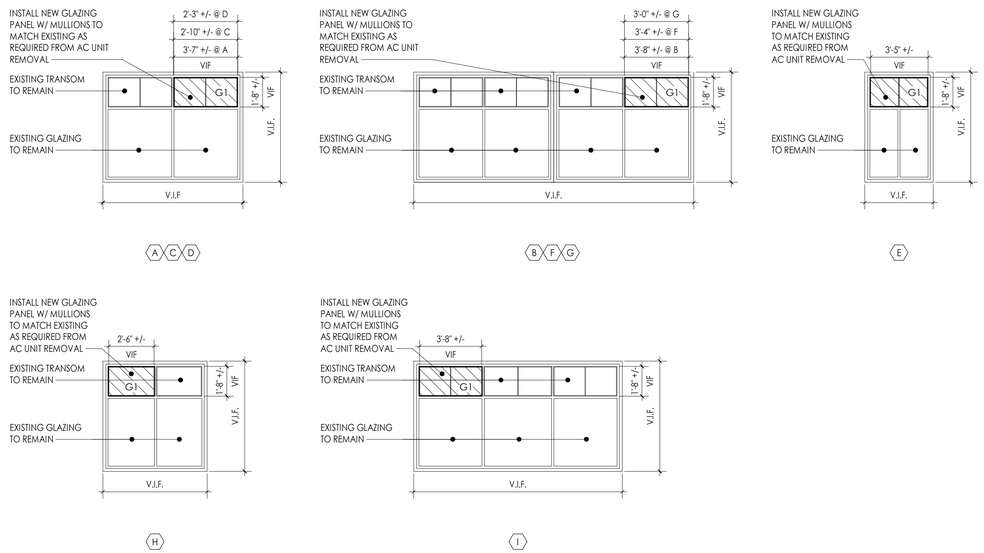
NOTE:
ALL EXISTING TO REMAIN FRAMES RECEIVING NEW DOORS TO BE SANDED AND PAINTED.

VERIFY ALL OPENING SIZES IN FIELD



DOOR PANEL TYPES

1/4" = 1'-0"

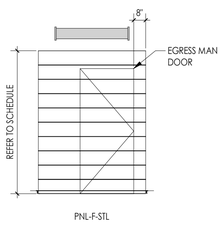


1 A900 WINDOWS ELEVATION @ AC REMOVAL

1/4" = 1'-0"

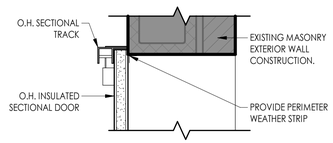
OVERHEAD DOOR SCHEDULE

DOOR NUMBER	FIRE RATING (MIN)	PANEL TYPE: PANEL 1	PANEL TYPE: PANEL 2	DOOR PANELS: TOTAL PANEL DIMENSIONS: WIDTH	HEIGHT	THICKNESS	UNDERCUT	DOOR PANELS: PANEL FINISHES: PANEL FINISH SIDE 1	DOOR FRAME: FRAME TYPE	HEAD DTL	JAMB DTL	SILL DTL	DOOR: COMMENTS
001		PNL-F-STL		6'-0"	8'-0"	0'-1"	0'-0"	<By Category>	FRM-65STL	3/A900	2/A900	-	PROVIDE 3'W X 7'H EGRESS MAN DOOR



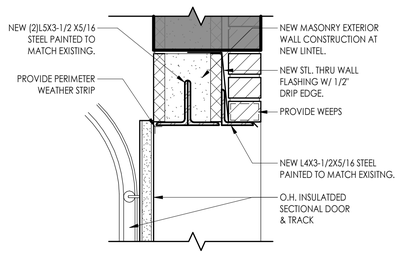
OH - DOOR PANEL TYPE

1/4" = 1'-0"



2 A900 OVERHEAD DOOR - JAMB DETAIL

1 1/2" = 1'-0"



3 A900 OVERHEAD DOOR - HEAD DETAIL

1 1/2" = 1'-0"

DOOR AND FRAME NOTES

1. ALL FRAMES ARE TO RECEIVE FULL PERIMETER SEALANT. INTERIOR AND EXTERIOR
2. ALL DOOR AND WINDOW OPENING DIMENSIONS ARE TO BE VERIFIED IN FIELD AND COORDINATED WITH APPROVED SHOP DRAWINGS PRIOR TO FABRICATION.
3. SEE SCHEDULE FOR DOOR & FRAME MATERIAL

DOOR AND FRAME SCHEDULE LEGEND

NOTE: THIS LEGEND MAY CONTAIN SYMBOLS THAT ARE NOT USED IN THIS PROJECT.

DOOR OR FRAME MATERIAL

ACR	ACROVYN DOOR
ACR-L	ACROVYN LEAD LINED DOOR
ALUM	ALUMINUM
HM	HOLLOW METAL
HM-L	HOLLOW METAL LEAD LINED
IHM	INSULATED HOLLOW METAL
WD	WOOD
WD-L	WOOD LEAD LINED

DOOR OR FRAME FINISH

PTD	PAINT
ST	WOOD STAIN
DB	DARK BRONZE(ANODIZED)
SS	STAINLESS STEEL
BE	BAKED ENAMEL

TYPE	GLAZING DESCRIPTION
G1	1" THICK INSULATING GLASS (CLEAR, TEMPERED, LOW-E)
G2	FIRE RATED GLAZING

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NY ENGINEERING FIRM CERTIFICATE #0021419

SOUTH ORANGETOWN Central School District
Capital Improvements Bond
Essential Infrastructure for Student Health, Safety and Success

PROJECT INFORMATION

Project Number
R22.14457.20

Client Name
SOUTH ORANGETOWN CENTRAL SCHOOL DISTRICT

Project Name
PHASE 2: 2022 BOND

TAPPAN ZEE HIGH SCHOOL

Building Address
15 DUTCH HILL ROAD, ORANGEBURG, NY 10962

SED # 50-03-01-06-0-006-033

Registration Expiration Dates
Lauren Tanio 09/30/26
Anthony Marchetti 05/31/27
Dave Hart 02/28/25
Jennifer Wengender 06/30/27

PROJECT ISSUE & REVISION SCHEDULE

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SHEET INFORMATION

Issued: 10/25/2024
Scale: As indicated
Project Status: BID DOCUMENTS
Drawn By: LF
Checked By: LT
Drawing Title: DOOR PANELS, FRAME TYPES & SCHEDULES

Drawing Number
TZHS
A900

10/25/2024 10:14:06 AM <project location>:\REVIT PROJECT FILES ON BIM 360

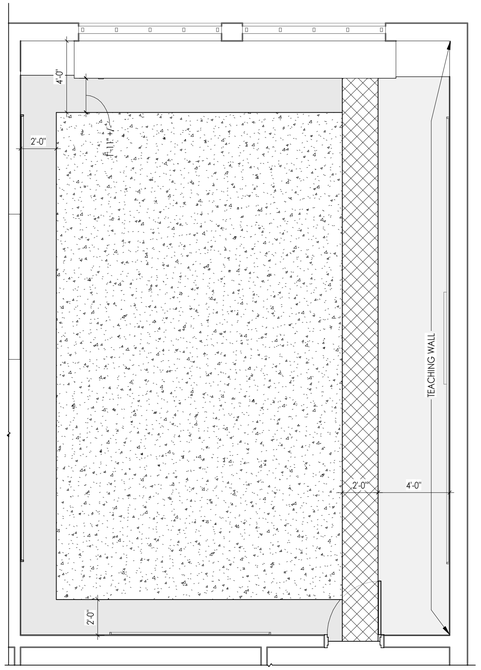
INTERIOR FINISH SCHEDULE

FINISH CODE	MANUFACTURER	PATTERN/STYLE	COLOR	SIZE	SPECIFICATIONS	NOTES
ACOUSTICAL CEILING TILE (ACT)						
ACT-1	ARMSTRONG OR EQUAL	SCHOOL ZONE FINE FISSURED 1820	WHITE	24" X 24" X 3/4"	CLASS A FIRE PERFORMANCE; NRC .70; CAC 35; 85% LIGHT REFLECTANCE; BIOBLOCK, MILDEW & MOLD RESISTANT; WITH 15/16" PRELUDE XL SUSPENSION SYSTEM; WHITE	TYPICAL 2'X2' ACT
CARPET (CPT)						
CPT-1	J & J FLOORING	KINETEX - CATALYST 1841	IMPULSE 2850	24" X 24" X .205"	CLASS 1; POLYESTER-APPLIED PATTERN WEAR LAYER; POLYESTER FELT CUSHION; SOLUTION DYED; KINETEX PROTEX FINISH TREATMENT, QUARTER-TURN INSTALLATION	AUDITORIUM
HIGH PRESSURE PLASTIC LAMINATE (HPL)						
HPL-1	WILSONART OR EQUAL	AEON SCRATCH RESISTANT	PHANTOM CHARCOAL 8214K-28	N/A	GLOSS LINE FINISH; CLASS B; VERTICAL SURFACE LAMINATE 335; GRAIN TO RUN VERTICALLY. FLAME SPREAD <= 45; STAIN RESISTANT; IMPACT RESISTANT; SURFACE WEAR RESISTANT; RADIANT HEAT RESISTANT. PROVIDE WITH 3mm EDGE BANDING, MATCHING LAMINATE PATTERN.	VERTICAL; CASEWORK
HPL-2	WILSONART OR EQUAL	HORIZONTAL GRADE 350	WHITE NEBULA 4621-60	N/A	MATTE FINISH; CLASS B; POSTFORMING HORIZONTAL SURFACE LAMINATE 350. FLAME SPREAD <= 60; STAIN RESISTANT; IMPACT RESISTANT; SURFACE WEAR RESISTANT; RADIANT HEAT RESISTANT. PROVIDE WITH 3mm EDGE BANDING, MATCHING LAMINATE PATTERN.	HORIZONTAL; COUNTERTOPS
PAINT (PT)						
PT-1	SHERWIN WILLIAMS OR EQUAL	REFER TO SPECIFICATIONS	ALPACA SW-7022	N/A	REFER TO SPECIFICATIONS	FIELD, U.N.O.
PT-2	SHERWIN WILLIAMS OR EQUAL	REFER TO SPECIFICATIONS	CAVIAR SW-6990	N/A	REFER TO SPECIFICATIONS	ACCENT COLOR; PAINT BOTH SIDES OF HM DOOR
PT-3	SHERWIN WILLIAMS OR EQUAL	REFER TO SPECIFICATIONS	CEILING BRIGHT WHITE SW-7007	N/A	REFER TO SPECIFICATIONS	GYP CEILING; U.N.O.
PT-4	SHERWIN WILLIAMS OR EQUAL	REFER TO SPECIFICATIONS	STOP SW-6869	N/A	REFER TO SPECIFICATIONS	ACCENT COLOR
PT-5	SHERWIN WILLIAMS OR EQUAL	REFER TO SPECIFICATIONS	TRICORN BLACK SW-6258	N/A	REFER TO SPECIFICATIONS	STAGE
PT-6	SHERWIN WILLIAMS OR EQUAL	REFER TO SPECIFICATIONS	MINK SW-6004	N/A	REFER TO SPECIFICATIONS	ACCENT COLOR, AUDITORIUM
PT-7	SHERWIN WILLIAMS OR EQUAL	REFER TO SPECIFICATIONS	PEPPERCORN SW-7674	N/A	REFER TO SPECIFICATIONS	ACCENT COLOR, AUDITORIUM
RESILIENT BASE (RB)						
RB-1	TARKETT OR EQUAL	TRADITIONAL WALL BASE 1/8"	BEDROCK TA6	4" HIGH	CLASS B <450 SMOKE DENSITY; CLASS 1 RADIANT PANEL; PROVIDE IN 120' ROLLS	TYPICAL WALL BASE; U.N.O.
SOLID SURFACE MATERIAL (SSM-1)						
SSM-1	CORAIN	SOLID SURFACE MATERIAL	EVEREST	N/A	CLASS A; FLAME SPREAD INDEX <25, SMOKE DEVELOPMENT INDEX <25	SCIENCE LAB COUNTERTOPS
TACKABLE SURFACE (TAS)						
TAS-1	KOROSEAL OR EQUAL	WALL TALKERS TAC-WALL	QUARRY 92	48" HIGH; LENGTH AS INDICATED ON DRAWINGS	CLASS B; BURLAP BACKING; SELF-HEALING LINOLEUM RESILIENT HOMOGENEOUS TACKABLE MATERIAL; COLOR EXTENDS FULL THICKNESS OF MATERIAL; PROVIDE IN 95 FOOT ROLLS; PROVIDE CLEAR, ANODIZED TRIM AT ALL EDGES; LIMITED 5-YEAR WARRANTY	TYPICAL TACKABLE SURFACE
TRANSITION (TS)						
TS-1	SCHLUTER SYSTEMS OR EQUAL	VINPRO-U	ANODIZED ALUMINUM	AS REQUIRED TO MEET MATERIAL THICKNESS	SEE TRANSITION TYPE DETAILS; SLOPE MUST COMPLY WITH ADA REQUIREMENTS. REFER TO SPECIFICATIONS	ETR TERRAZZO TO VCT/RT
TS-2	TARKETT OR EQUAL	SLT-XX-G	TBD	AS REQUIRED TO MEET MATERIAL THICKNESS	SEE TRANSITION TYPE DETAILS; SLOPE MUST COMPLY WITH ADA REQUIREMENTS. REFER TO SPECIFICATIONS	ETR TERRAZZO TO CPT
VINYL COMPOSITION TILE (VCT)						
VCT-1	ARMSTRONG FLOORING OR EQUAL	STANDARD EXCELON IMPERIAL TEXTURE	SILK 59234	12" X 12" X 1/8"	CLASS 2 THROUGH PATTERN; TYPE II; CLASS 1 RADIANT PANEL; 2000 PSI; FAST START FACTORY FINISH; 5-YEAR LIMITED COMMERICAL WARRANTY, QUARTER TURN INSTALLATION.	BASE BID - FIELD; U.N.O.
VCT-2	ARMSTRONG FLOORING OR EQUAL	STANDARD EXCELON IMPERIAL TEXTURE	FIELD GRAY 51927	12" X 12" X 1/8"	CLASS 2 THROUGH PATTERN; TYPE II; CLASS 1 RADIANT PANEL; 2000 PSI; FAST START FACTORY FINISH; 5-YEAR LIMITED COMMERICAL WARRANTY, QUARTER TURN INSTALLATION.	BASE BID - ACCENT COLOR
VCT-3	ARMSTRONG FLOORING OR EQUAL	STANDARD EXCELON IMPERIAL TEXTURE	RUBY RED 57534	12" X 12" X 1/8"	CLASS 2 THROUGH PATTERN; TYPE II; CLASS 1 RADIANT PANEL; 2000 PSI; FAST START FACTORY FINISH; 5-YEAR LIMITED COMMERICAL WARRANTY, QUARTER TURN INSTALLATION.	BASE BID - ACCENT COLOR
WOOD STAIN (WD)						
WD-1	MINWAX	TBD	TBD	N/A	REFER TO SPECIFICATIONS	AUDITORIUM
WRITEABLE SURFACE (WS)						
WS-1	KOROSEAL OR EQUAL	WALL TALKERS MAG-RITE 59	NATURAL WHITE M259-00	45", LENGTH AS REQUIRED PER DRAWINGS; REFER TO ELEVATIONS & FINISH SCHEDULE FOR DETAIL	CLASS A; TYPE II; WOVEN BACKING; MODERATE GLOSS FINISH; STRAIGHT MATCH PATTERN	TYPICAL WRITEABLE SURFACE OVER ETR CHALKBOARDS

GENERAL FINISH MATERIAL NOTE:
CONTRACTOR TO ENSURE THAT ALL MATERIALS ARE ORDERED MIN. 12 WEEKS PRIOR TO INSTALLATION DATE TO ACCOUNT FOR MATERIAL BACKORDERS. ADDITIONAL TIME MAY BE REQUIRED FOR SPECIALTY ITEMS; GC TO WORK WITH PRODUCT REP OR MANUFACTURER TO DETERMINE ADDITIONAL LEAD TIME. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE ALL MATERIALS ARE IN STOCK AND AVAILABLE TO SHIP WITHIN THE CONSTRUCTION WINDOW. CONTRACT IS TO INFORM CPL AS SOON AS POSSIBLE WITH ANY LEAD TIME OR AVAILABILITY ISSUES.

LEGEND:

- VCT-1
- VCT-2
- VCT-3



****FLOOR PATTERN ORIENTATION TO COORDINATE WITH TEACHING WALL, REFER TO I200 FOR TEACHING WALL LOCATIONS****

1 / 1000 **TYPICAL CLASSROOM FLOOR PATTERN PLAN**
1/4" = 1'-0"

FINISH ABBREVIATIONS

NOTE: THIS LEGEND MAY CONTAIN ABBREVIATIONS THAT ARE NOT IN THIS PROJECT

ACT	ACOUSTICAL CEILING TILE	SCON	SEALED CONCRETE
AWP	ACOUSTICAL WALL PANEL	SSM	SOLID SURFACE MATERIAL
CPT	CARPET	TAS	TACKABLE SURFACE
ETR	EXISTING TO REMAIN	TR	TRIM
EXP	EXPOSED	TS	TRANSITION STRIP
HPL	HIGH PRESSURE PLASTIC LAMINATE	VCT	VINYL COMPOSITION TILE
INT	INTEGRAL	WC	WALL COVERING
PT	PAINT	WD	WOOD
PTM	PATCH TO MATCH	WOM	WALK OFF MAT
RB	RESILIENT BASE	WS	WRITEABLE SURFACE
RT	RUBBER TILE	WT	WINDOW TREATMENT

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Poughkeepsie, NY 12601
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NY ENGINEERING FIRM CERTIFICATE #0021419

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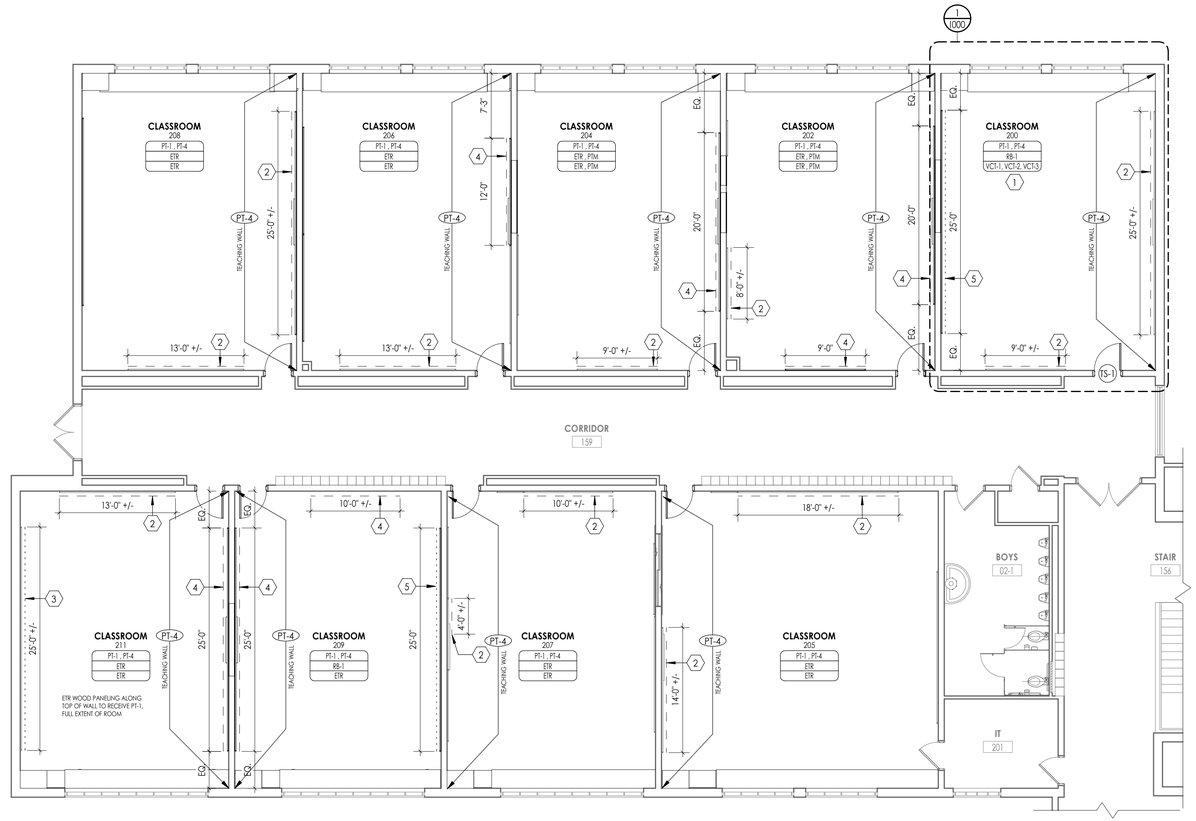
Issued: 10/25/2024
Scale: As indicated
Project Status: BID DOCUMENTS
Drawn By: AD
Checked By: AS
Drawing Title: INTERIORS GENERAL

Drawing Number
GEN
1000

10/25/2024 10:08:34 AM <project location>\REVIT PROJECT FILES ON BIM 360



1 / I201 **AREA B - FINISH FLOOR PLAN**

1/8" = 1'-0"

FINISH PLAN GENERAL NOTES

1. ALL NEW AND EXISTING HOLLOW METAL DOORS, DOOR FRAMES IN PROJECT SCOPE SHALL BE PAINTED **(PT-2)** ON BOTH SIDES, UNLESS NOTED OTHERWISE.
2. ALL LOUVERS, VENTS, GRILLES AND OTHER MISCELLANEOUS MECHANICAL AND ELECTRICAL DEVICES ARE TO BE PAINTED TO MATCH THE SURFACE ON WHICH THEY APPEAR, UNLESS NOTED OTHERWISE.
3. REFER TO A600 SERIES DRAWINGS FOR CEILING TYPES AND SOFFIT FINISHES.
4. UNDERSIDE OF SOFFITS TO MATCH FACE OF SOFFIT. SEE **A600 SERIES** FOR PAINT ACCENT SPECIFICATIONS.
5. PAINT GWB CEILINGS **(PT-3)**, UNLESS NOTED OTHERWISE.
6. REFER TO A700 SERIES INTERIOR ELEVATIONS FOR MILLWORK FINISHES.
7. HIGH PRESSURE PLASTIC LAMINATE ON VERTICAL SURFACES TO RUN VERTICALLY, UNLESS NOTED OTHERWISE.
8. WHERE KICKSPACES OCCUR AT MILLWORK, FLOOR FINISH SHOWN ON PLANS SHALL RUN UNDERNEATH KICKSPACE AS WELL.
9. ALL FLOOR FINISHES SHALL TRANSITION AT THE CENTERLINE OF THE DOOR, UNLESS NOTED OTHERWISE. INSTALL TRANSITION STRIPS PER DETAILS ON **I000.**
10. PROVIDE CONCRETE FLOOR PREPARATION IN ACCORDANCE WITH FLOORING MANUFACTURER SPECIFICATION.

FINISH ABBREVIATIONS

NOTE: THIS LEGEND MAY CONTAIN ABBREVIATIONS THAT ARE NOT IN THIS PROJECT

ACT	ACOUSTICAL CEILING TILE	SCON	SEALED CONCRETE
AWP	ACOUSTICAL WALL PANEL	SSM	SOLID SURFACE MATERIAL
CPT	CARPET	TAS	TACKABLE SURFACE
ETR	EXISTING TO REMAIN	TR	TRIM
EXP	EXPOSED	TS	TRANSITION STRIP
HPL	HIGH PRESSURE PLASTIC LAMINATE	VCT	VINYL COMPOSITION TILE
INT	INTEGRAL	WC	WALL COVERING
PT	PAINT	WD	WOOD
PTM	PATCH TO MATCH	WOM	WALK OFF MAT
RB	RESILIENT BASE	WS	WRITEABLE SURFACE
RT	RUBBER TILE	WT	WINDOW TREATMENT

FINISH PLAN SYMBOLS LEGEND

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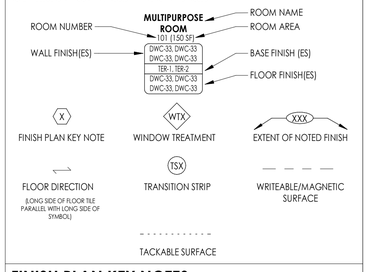

FINISH PLAN KEY NOTES

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2. PROVIDE WRITEABLE/MAGNETIC SURFACE (WS-1) ON ETR CHALKBOARD. VERIFY DIMENSIONS IN FIELD.
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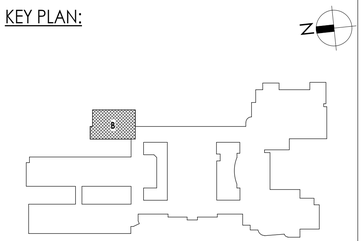
KEY PLAN:



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NY ENGINEERING FIRM CERTIFICATE #0021419

SOUTH ORANGETOWN Central School District
Capital Improvements Bond
Essential Infrastructure for Student Health, Safety and Success

PROJECT INFORMATION

Project Number
R22.14457.20

Client Name
SOUTH ORANGETOWN CENTRAL SCHOOL DISTRICT

Project Name
PHASE 2: 2022 BOND

TAPPAN ZEE HIGH SCHOOL

Building Address
15 DUTCH HILL ROAD, ORANGEBURG, NY 10962

SED # 50-03-01-06-0-006-033

Registration Expiration Dates
Lauren Tanio 09/30/26
Anthony Marchetti 05/31/27
Dave Hart 02/28/25
Jennifer Wengender 06/30/27

PROJECT ISSUE & REVISION SCHEDULE

#	Date	Description

PROFESSIONAL STAMPS

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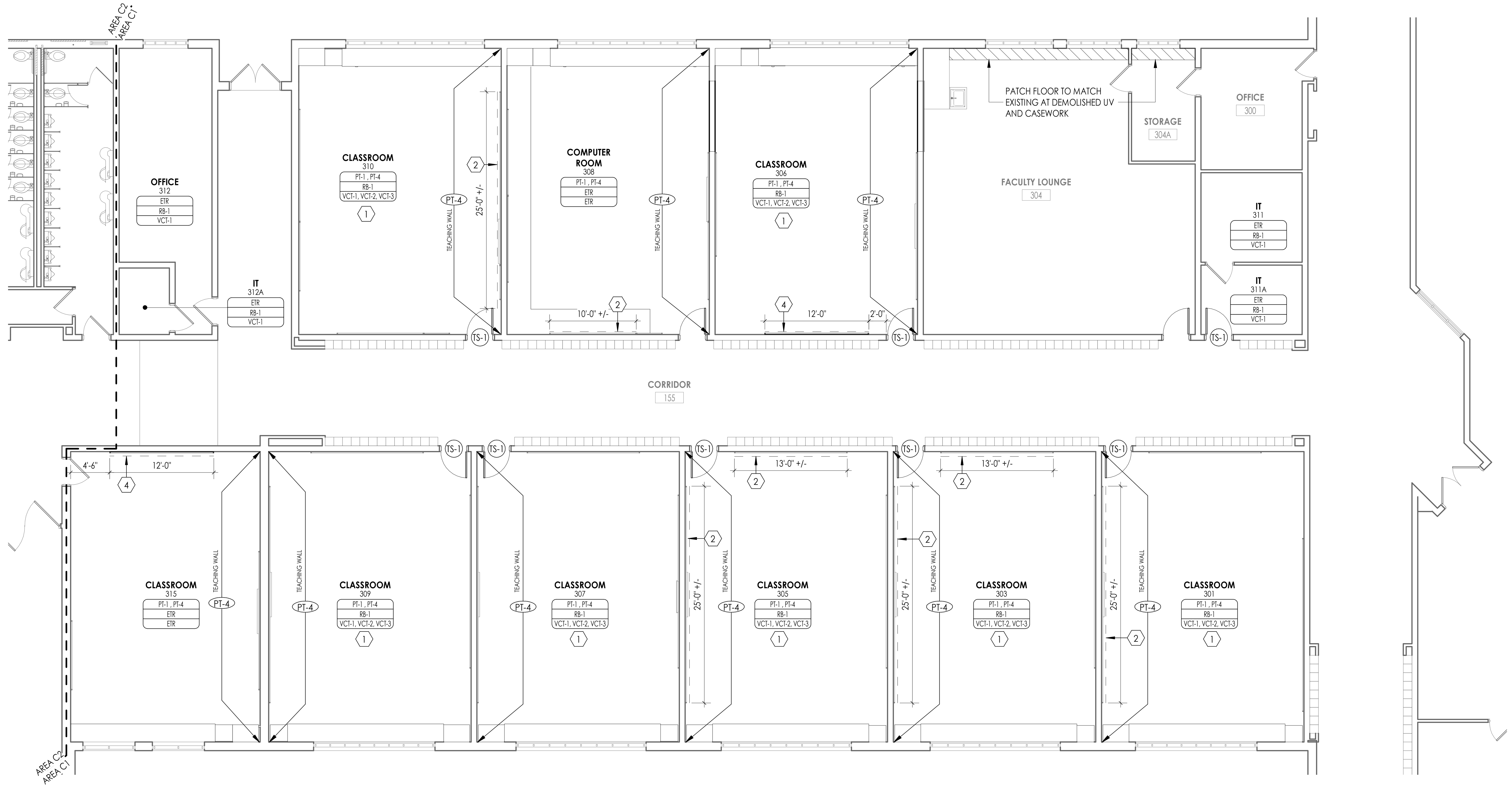
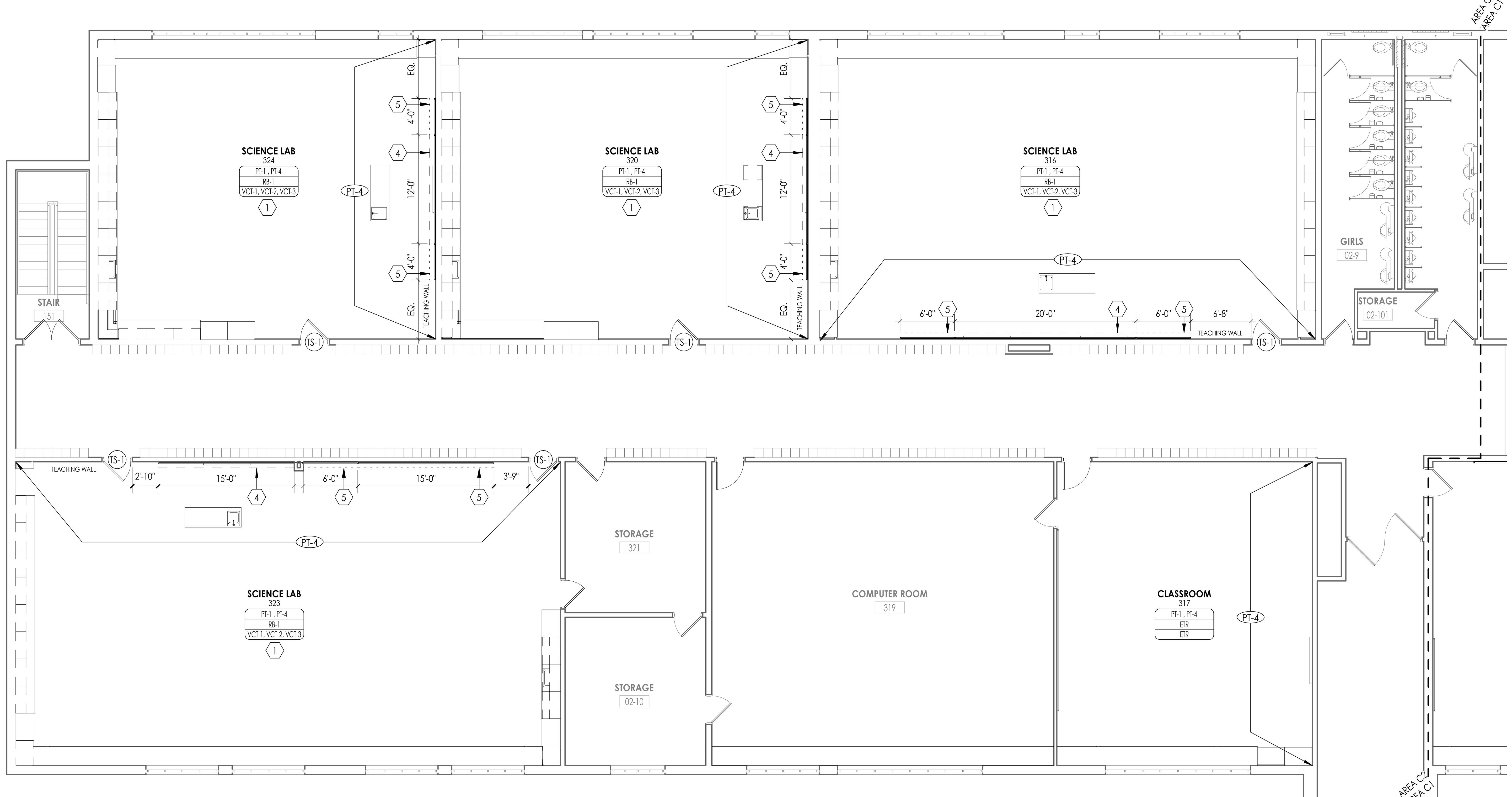
SHEET INFORMATION

Issued: 10/25/2024
Scale: As indicated
Project Status: BID DOCUMENTS
Drawn By: AD
Checked By: AS
Drawing Title: AREA B FINISH FLOOR PLAN
Drawing Number: TZHS I201



1 AREA C1 - FINISH FLOOR PLAN
I202
1/8" = 1'-0"



2 AREA C2 - FINISH FLOOR PLAN
I202
1/8" = 1'-0"

FINISH PLAN GENERAL NOTES

1. ALL NEW AND EXISTING HOLLOW METAL DOORS, DOOR FRAMES IN PROJECT SCOPE SHALL BE PAINTED **(PT-2)** ON BOTH SIDES, UNLESS NOTED OTHERWISE.
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7. HIGH PRESSURE PLASTIC LAMINATE ON VERTICAL SURFACES TO RUN VERTICALLY, UNLESS NOTED OTHERWISE.
8. WHERE KICKSPACES OCCUR AT MILLWORK, FLOOR FINISH SHOWN ON PLANS SHALL RUN UNDERNEATH KICKSPACE AS WELL.
9. ALL FLOOR FINISHES SHALL TRANSITION AT THE CENTERLINE OF THE DOOR, UNLESS NOTED OTHERWISE. INSTALL TRANSITION STRIPS PER DETAILS ON **I000.**
10. PROVIDE CONCRETE FLOOR PREPARATION IN ACCORDANCE WITH FLOORING MANUFACTURER SPECIFICATION.

FINISH ABBREVIATIONS

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ACT	ACOUSTICAL CEILING TILE	SCON	SEALED CONCRETE
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CPT	CARPET	TAS	TACKABLE SURFACE
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FINISH PLAN SYMBOLS LEGEND

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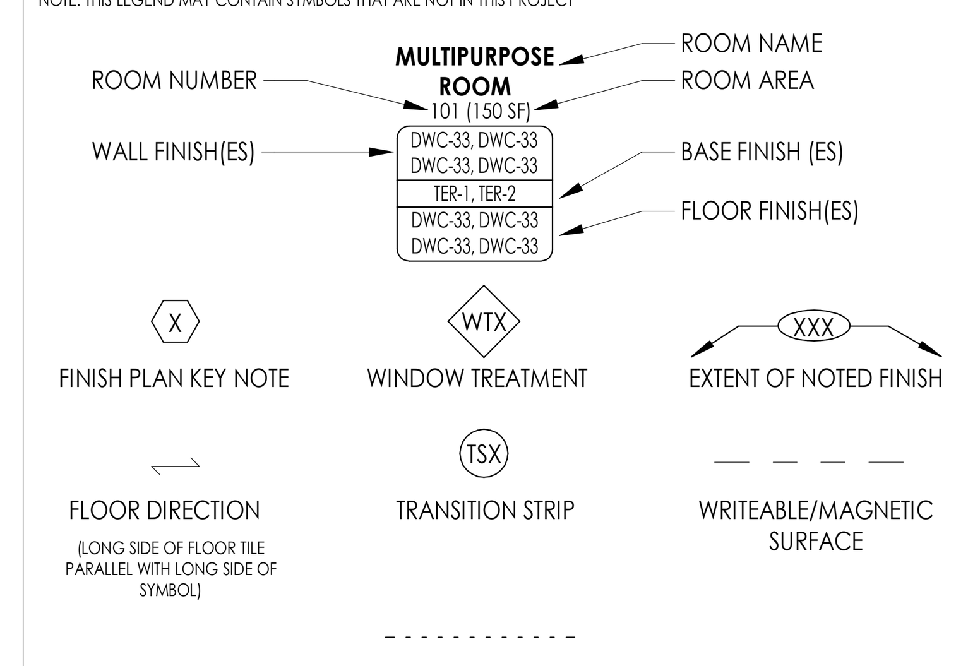

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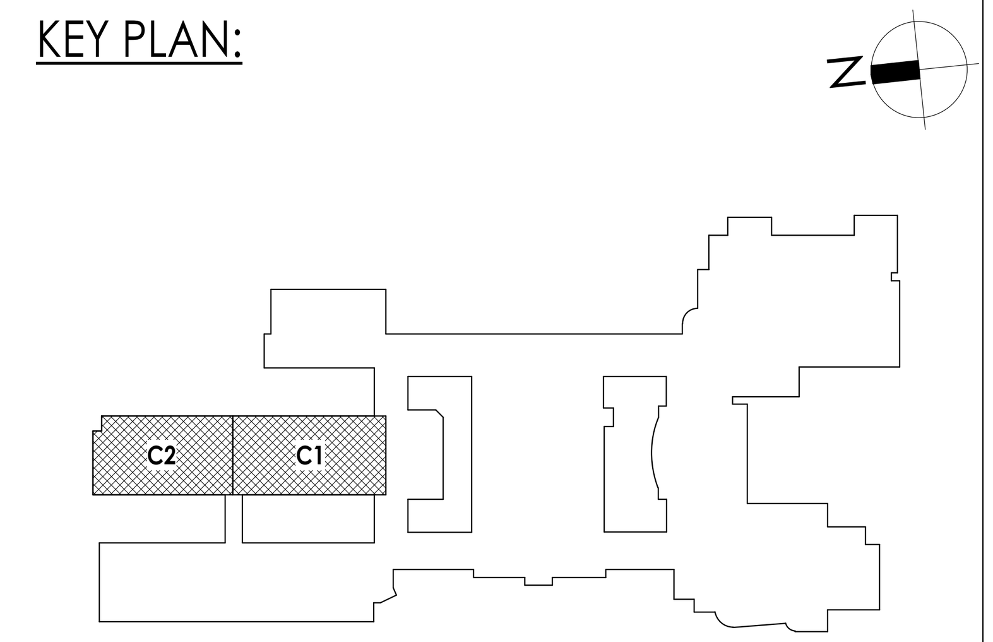

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PROFESSIONAL STAMPS

SHEET INFORMATION

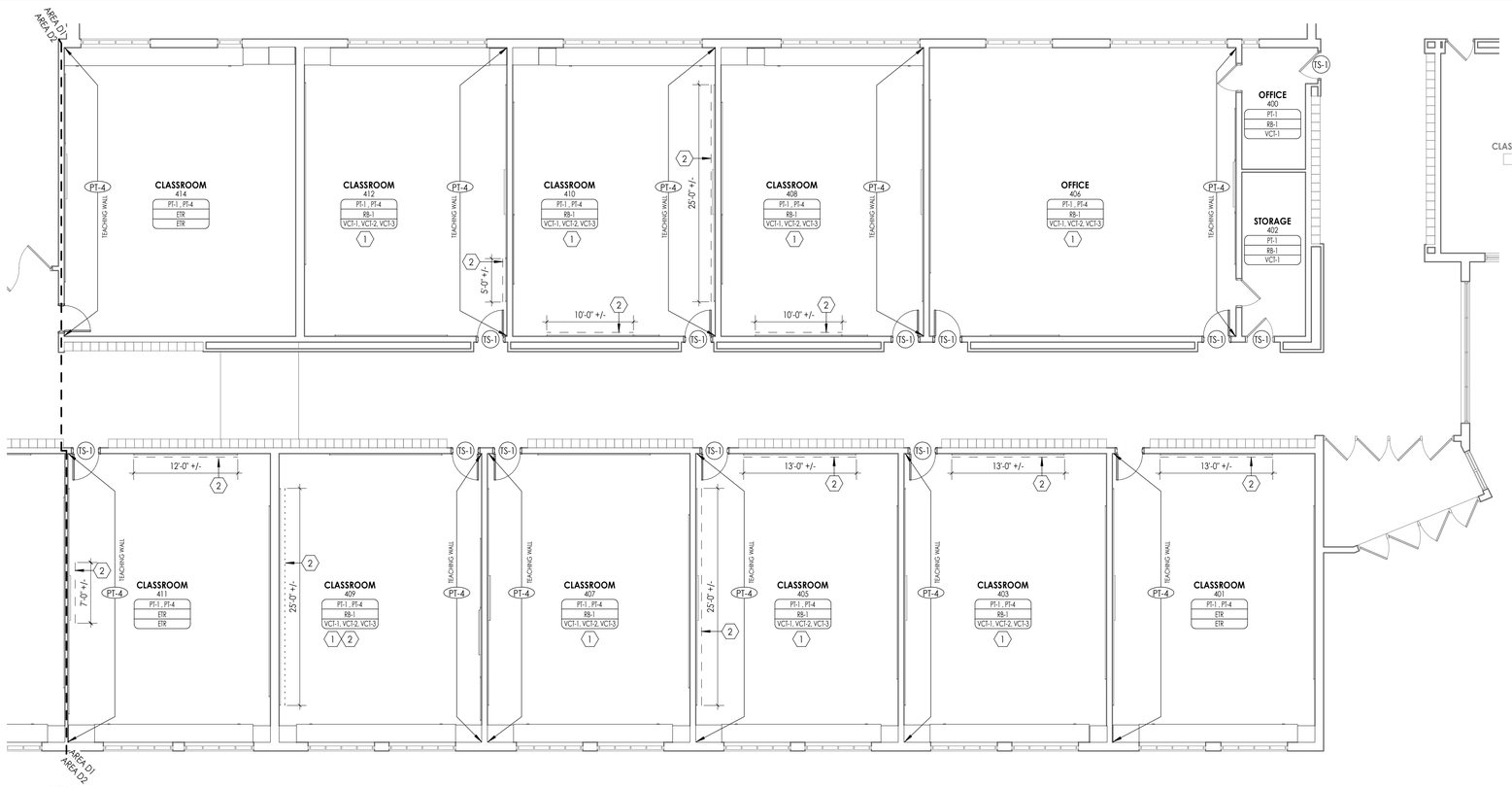
Issued	Scale
10/25/2024	As indicated

Project Status
BID DOCUMENTS

Drawn By	Checked By
AD	AS

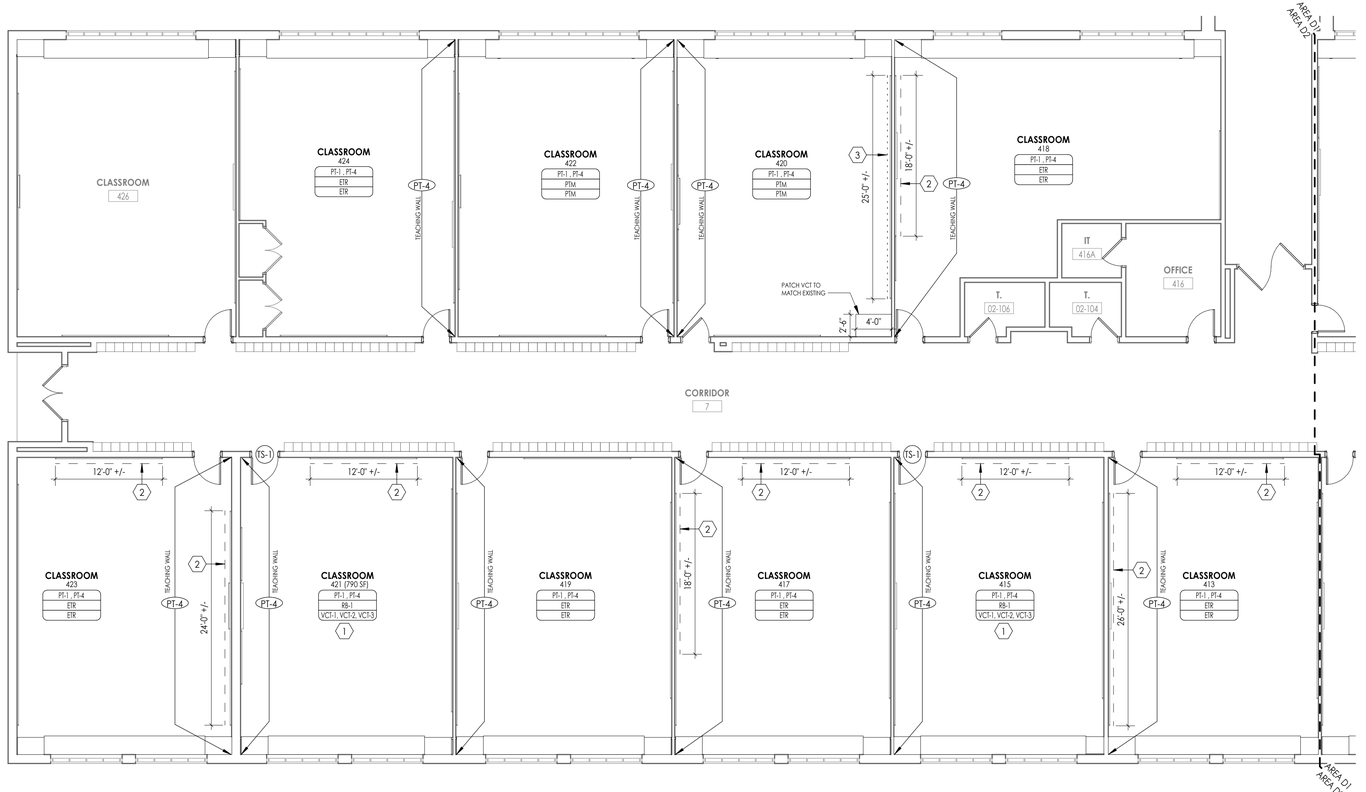
Drawing Title
AREA C FINISH FLOOR PLAN

Drawing Number
TZHS
I202



1 / I203 **AREA D1 - FINISH FLOOR PLAN**

1/8" = 1'-0"



2 / I203 **AREA D2 - FINISH FLOOR PLAN**

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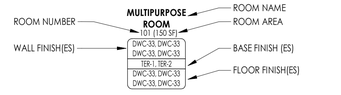

X — FINISH PLAN KEY NOTE

WTX — WINDOW TREATMENT

XXX — EXTENT OF NOTED FINISH

FLOOR DIRECTION (LONG SIDE OF FLOOR TILE PARALLEL WITH LONG SIDE OF SYMBOL)

TSX — TRANSITION STRIP

WRITEABLE/MAGNETIC SURFACE

TACKABLE SURFACE

FINISH PLAN KEY NOTES

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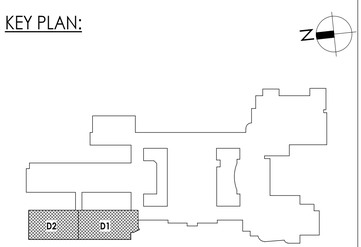

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SHEET INFORMATION

Issued	Scale
10/25/2024	As indicated

Project Status
BID DOCUMENTS

Drawn By	Checked By
AD	AS

Drawing Title
AREA D FINISH FLOOR PLAN

Drawing Number
TZHS
I203

10/24/2024 4:42:45 PM. <project location> REVIT PROJECT FILES ON BIM 360

HVAC SYMBOLS LIST

SYMBOL	DESCRIPTION
AAD	AUTOMATIC AIR DAMPER
ACC	AIR-COOLED CONDENSING UNIT
AD	ACCESS DOOR
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
BBD	BOILER BLOW DOWN
BD	BACKDRAFT DAMPER
CA	COMPRESSED AIR
CD	COOLING COIL CONDENSATE DRAIN
CFM	CUBIC FEET PER MINUTE
CHWR	CHILLED WATER RETURN
CHWS	CHILLED WATER SUPPLY
CR	CONDENSER WATER RETURN
CS	CONDENSER WATER SUPPLY
CW	DOMESTIC COLD WATER
D	DRAIN
(E)	EXISTING
EA	EXHAUST AIR
EC	ELECTRICAL CONTRACTOR
EF	EXHAUST FAN
ERHC	ELECTRIC REHEAT COIL
ETR	EXISTING TO REMAIN
EUH	ELECTRIC UNIT HEATER
F&T	FLOAT AND THERMOSTATIC TRAP
FCU	FAN-COIL UNIT
FPM	FEET PER MINUTE
FT	FIN-TUBE
GC	GENERAL CONTRACTOR
GR	GLYCOL RETURN
GS	GLYCOL SUPPLY
HC	HVAC CONTRACTOR
HHWR	HEATING HOT WATER RETURN
HHWS	HEATING HOT WATER SUPPLY
HP	HEAT PUMP
HPC	HIGH PRESSURE CONDENSATE
HPS	HIGH PRESSURE STEAM
LF	LINEAR FOOTAGE OF FIN-TUBE RADIATION
LPC	LOW PRESSURE CONDENSATE
LPG	LIQUEFIED PROPANE GAS
LPS	LOW PRESSURE STEAM
MBH	1,000 BTU/HR
MC	MECHANICAL CONTRACTOR
MPC	MEDIUM PRESSURE CONDENSATE
MPS	MEDIUM PRESSURE STEAM
MRD	MONOFLO FITTING DOWN – HHWR
MSD	MONOFLO FITTING DOWN – HHWS
MUW	MAKE-UP WATER
NC	NORMALLY CLOSED
NG	NATURAL GAS
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OA	OUTSIDE AIR
PC	PLUMBING CONTRACTOR
PD	PUMP DISCHARGE
PHWR	PRIMARY HEATING HOT WATER RETURN
PHWS	PRIMARY HEATING HOT WATER SUPPLY
RA	RETURN AIR
RD	REFRIGERANT DISCHARGE
RHC	HOT WATER REHEAT COIL
RLL	REFRIGERANT LIQUID PIPE
RSL	REFRIGERANT SUCTION PIPE
RTU	ROOFTOP UNIT
RV	ROOF VENT
SA	SUPPLY AIR
SCR	STEAM CONDENSATE RETURN
SHWR	SECONDARY HEATING HOT WATER RETURN
SHWS	SECONDARY HEATING HOT WATER SUPPLY
SSI	SPLIT SYSTEM INDOOR SECTION (EVAPORATOR SECTION)
SSO	SPLIT SYSTEM OUTDOOR SECTION (CONDENSING UNIT)
TC	TEMPERATURE CONTROLS CONTRACTOR
UH	UNIT HEATER
UV	UNIT VENTILATOR
V	VENT
WAHP	WATER-TO-AIR HEAT PUMP
WWHP	WATER-TO-WATER HEAT PUMP

SYMBOL	DESCRIPTION
	CONNECTION - TOP
	CONNECTION - BOTTOM
	DIRECTION OF FLOW
	REDUCER
	CAP OR PLUG
	ELBOW DOWN
	ELBOW UP
	TEE OUTLET - UP
	TEE OUTLET - DOWN
	UNION
	GATE VALVE
	BALL VALVE
	BALANCING VALVE
	STRAINER
	STRAINER WITH BLOW-DOWN
	BUTTERFLY VALVE
	BUTTERFLY CONTROL VALVE, PNEUMATIC 2-WAY
	BUTTERFLY CONTROL VALVE, ELECTRIC ACTUATOR
	GLOBE VALVE
	CHECK VALVE
	TRIPLE DUTY VALVE
	GAS COCK, PLUG VALVE
	UNDERCUT DOOR 1"
	LOUVERED DOOR W/ SQ. FT. OF FREE AREA
	AIR VENT - MANUAL
	AIR VENT - AUTOMATIC
	FLANGE
	CONTROL/SOLENOID VALVE, ELECTRIC 2-WAY
	CONTROL VALVE, ELECTRIC 3-WAY
	CONTROL VALVE, PNEUMATIC 2-WAY
	CONTROL VALVE, PNEUMATIC 3-WAY
	RELIEF / SAFETY VALVE
	PRESSURE REDUCING VALVE
	VACUUM BREAKER
	FLEXIBLE PIPE CONNECTOR
	EXPANSION COMPENSATOR W/ GUIDES
	EXPANSION JOINT
	PIPE ANCHOR
	PIPE GUIDE
	THERMOSTATIC TRAP
	FLOAT & THERMOSTATIC TRAP
	BUCKET TRAP
	THERMODYNAMIC TRAP
	THERMOMETER
	WELL
	PRESSURE GAUGE
	STEAM PRESSURE GAUGE WITH 1/4" NEEDLE VALVE
	PRESSURE GAUGE WITH 1/4" NEEDLE VALVE
	PNEUMATIC (CONTROL) TUBING
	BUTTERFLY VALVE WITH PNEUMATIC AND MANUAL OPERATORS
XX	PIPING
XX	PIPING BELOW GRADE
	BASE MOUNTED PUMP
	IN-LINE PUMP
	AIR TERMINAL UNIT WITH REHEAT COIL AND SOUND ATTENUATOR
	AIR TERMINAL UNIT WITH SOUND ATTENUATOR
	AIR TERMINAL UNIT WITH REHEAT COIL
	AIR TERMINAL UNIT
W/W ENCL.	WALL TO WALL FIN TUBE ENCLOSURE

SYMBOL	DESCRIPTION
(DBL)	DOUBLE WALL LINED DUCT
20/10	DUCT SECTION - SUPPLY
20/10	DUCT SECTION - RETURN/EXHAUST
Ø	DUCT SECTION - ROUND DUCT IN INCHES
AXB FO	DUCT SECTION - FLAT OVAL DUCT IN INCHES
	ACOUSTIC THERMAL LINING
	FLEXIBLE DUCTWORK
FC	FLEXIBLE CONNECTION
	FIRE DAMPER
	SMOKE DAMPER
	COMBINATION FIRE AND SMOKE DAMPER
VD	VOLUME DAMPER
	DAMPER CONTROL, PARALLEL BLADE
	DAMPER CONTROL, OPPOSED BLADE
AAD	AUTOMATIC AIR DAMPER
BDD	BACK DRAFT DAMPER
BG	BLAST GATE
20/10 12X10	AIR DUCT (FIRST FIGURE IS DUCT WIDTH/TOP, SECOND FIGURE IS DUCT DEPTH)
	MULTI-BLADE AIR EXTRACTOR
	TURNING VANES
	EXISTING WORK TO BE REMOVED (HATCHED)
	POINT OF CONNECTION
	POINT OF DISCONNECTION
	AIR FLOW SENSOR
	FILTER
	TRANSITION SQUARE TO ROUND
	HUMIDIFIER DISPERSION TUBE
RISE R	RISE IN DUCT
DROP D	DROP IN DUCT
	SQUARE CEILING DIFFUSER (4 WAY)
	ROUND CEILING DIFFUSER
	SQUARE OR RECTANGULAR CEILING GRILLE
	SUPPLY REGISTER, RETURN OR EXHAUST GRILLE
1-WAY 2-WAY 3-WAY	SUPPLY DIFFUSER, 1-WAY, 2-WAY, 3-WAY
8"Ø, D-3 300 CFM	CEILING DIFFUSER WITH NECK SIZE, TYPE, & CFM
10"x10", G-3 300 CFM	CEILING RETURN OR EXHAUST GRILLE WITH SIZE, TYPE, & CFM
10"x8", R-2 300 CFM	SUPPLY REGISTER WITH SIZE, TYPE, & CFM
10"x8", G-2 300 CFM	RETURN OR EXHAUST GRILLE WITH SIZE, TYPE, & CFM
	AIR FLOW
L1	ACOUSTIC/THERMAL DUCTWORK LINING - 1 INCH THICK
L2	ACOUSTIC/THERMAL DUCTWORK LINING - 2 INCH THICK
PL1	ACOUSTIC/THERMAL DUCTWORK PLENUM LINING - 1 INCH THICK
PL2	ACOUSTIC/THERMAL DUCTWORK PLENUM LINING - 2 INCH THICK

SYMBOL	DESCRIPTION
	SUPPLY / RETURN / EXHAUST AIR TAKEOFFS (1-1/2 TIMES BRANCH SIZE)
	SUPPLY / RETURN / EXHAUST AIR TAKEOFFS
	SUPPLY AIR TAKEOFFS (CONICAL TEE)
	SUPPLY AIR TAKEOFFS (LATERAL)
	SUPPLY AIR TAKEOFFS
	SUPPLY/RETURN EXHAUST AIR TAKEOFFS W/ REGISTER/GRILLE/ DIFFUSER
	SUPPLY/RETURN EXHAUST AIR END OF MAIN BRANCH TAKEOFFS
	SUPPLY/RETURN EXHAUST AIR END OF MAIN BRANCH TAKEOFFS
	LONG RADIUS 90° ELBOW R/W=1.5
	LONG RADIUS 45° ELBOW R/W=1.5
	90° ELBOW WITH TURNING VANES
	90 VERTICAL SPLIT OFF (PLAN VIEW)
	DUCT TURNING UP OR DOWN
MAX MIN	AIR TERMINAL UNIT-DUCTWORK U - UNIT TYPE MAX = MAXIMUM CFM MIN = MINIMUM CFM
GPM MAX	AIR TERMINAL UNIT-DUCTWORK U - UNIT TYPE GPM = GALLONS PER MIN MAX = MAXIMUM GPM
MAX MIN FAN	FAN POWERED AIR TERMINAL UNIT U - UNIT TYPE MAX = PRIMARY MAX CFM MIN = PRIMARY MIN CFM FAN = FAN CFM
TYPE / COIL SIZE / CLNG GPM / HTNG GPM	TYPE = VALANCE TYPE COIL SIZE = COIL LENGTH CLNG GPM = COOLING GPM HTNG GPM = HEATING GPM
X XX	X = DIFFUSER OR GRILL TYPE XX = AIR FLOW VALUE (CFM)

SYMBOL	DESCRIPTION
	ELECTRIC/PNEUMATIC SWITCH OR RELAY
	PNEUMATIC/ELECTRIC SWITCH OR RELAY
CT	CURRENT TRANSDUCER
	OPEN/CLOSED
	START/STOP
	ENABLE/DISABLE
	TEMPERATURE SENSOR (DUCT OR PIPE MOUNTED)
	HUMIDITY SENSOR (DUCT MOUNTED)
	FLOW TRANSMITTER
	PRESSURE TRANSMITTER
	DIFFERENTIAL PRESSURE TRANSMITTER
	ELECTRIC/PNEUMATIC TRANSDUCER
	ELECTRIC/ELECTRONIC TRANSDUCER
	DUCT SMOKE DETECTOR
T	SPACE THERMOSTAT
	SPACE TEMPERATURE SENSOR
CO2	SPACE CARBON DIOXIDE SENSOR
CH4	SPACE NATURAL GAS SENSOR
CO	SPACE CARBON MONOXIDE SENSOR
G	SPACE SENSOR WITH GUARD
H	SPACE HUMIDISTAT
FS	WATER FLOW SENSOR
	PNEUMATIC ACTUATOR
	ELECTRIC ACTUATOR
VSD VFD	VARIABLE SPEED / FREQUENCY DRIVE
C	COOLING COIL
H	HEATING COIL
F	GAS FURNACE
H	HUMIDIFIER
A	ALARM
S	STATUS
FS	FLOW SWITCH
DP	DIFFERENTIAL STATIC PRESSURE SWITCH
R	RELAY
	PRESSURE GAUGE
FZ	FREEZE-STAT
DI	DIGITAL INPUT (TO BUILDING MANAGEMENT SYSTEM)
DO	DIGITAL OUTPUT (FROM BUILDING MANAGEMENT SYSTEM)
AO	ANALOG OUTPUT (FROM BUILDING MANAGEMENT SYSTEM)
AI	ANALOG INPUT (TO BUILDING MANAGEMENT SYSTEM)
	ELECTRICAL INTERFACE
SF	SPEED FEED BACK
ES	END SWITCH
PF	POSITION FEEDBACK
	TRAVERSE AVERAGING SENSOR
	PROBE SENSOR
	FREEZE STAT SENSOR

SYMBOLS GENERAL NOTES:

1. VALVE AND DAMPER ACTUATOR TYPES (ELECTRIC OR PNEUMATIC) WHICH ARE INDICATED IN HVAC TEMPERATURE CONTROL DRAWINGS SHALL SUPERSEDE TYPE INDICATED ON ALL OTHER HVAC DRAWINGS.

HVAC CONTRACTOR GENERAL NOTES:

A. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS WITHIN THE BUILDING PRIOR TO COMMENCEMENT OF ALL DEMOLITION AND NEW WORK.

B. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REMOVE AND REPLACE EXISTING CEILINGS, UNLESS OTHERWISE NOTED ON THE ARCHITECTURAL DRAWINGS, FOR PERFORMING DEMOLITION OR NEW WORK WITHIN THE BUILDING. THE EXISTING CEILINGS SHALL BE REMOVED IN A MANNER TO AVOID DAMAGE TO THE CEILING SYSTEMS. STORAGE OF CEILING SYSTEM COMPONENTS FOR REINSTALLATION IS THE RESPONSIBILITY OF THE CONTRACTOR. THE STORAGE OF ALL MATERIAL SHALL BE IN AREAS OR LOCATIONS APPROVED BY THE OWNER. THE OWNER WILL NOT COMPENSATE FOR ANY DAMAGED OR LOST MATERIAL WHILE IN STORAGE. AFTER COMPLETION OF ALL DEMOLITION OR NEW WORK, THE CONTRACTOR SHALL REINSTALL THE CEILING SYSTEMS TO MATCH THE ORIGINAL INSTALLATION.

C. DEMOLITION DRAWINGS SHOW MAJOR EQUIPMENT, PIPING, AND DUCTWORK REMOVALS. THE INTENT IS NOT TO IDENTIFY ALL MISCELLANEOUS PIPING, PIPING ACCESSORIES, DUCTWORK, DUCTWORK ACCESSORIES, SUPPORTS, CONTROLS, CONTROL ACCESSORIES, CONTROL WIRING, CONDUIT, AND PNEUMATIC CONTROL TUBING TO BE DISCONNECTED AND REMOVED, BUT IS THE REQUIREMENT UNDER THIS CONTRACT. NO EQUIPMENT, PIPING, OR DUCTWORK SHALL BE ABANDONED IN PLACE, UNLESS OTHERWISE NOTED ON THE DRAWINGS.

D. ALL EQUIPMENT INDICATED TO BE TURNED OVER TO THE OWNER SHALL BE DISCONNECTED AND REMOVED FROM THE EXISTING SYSTEMS AND DELIVERED (INCLUDING LOADING AND UNLOADING) TO A STORAGE AREA WITHIN THE BUILDING AS SELECTED BY THE OWNER. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REPAIR ANY EQUIPMENT DAMAGED DURING REMOVAL AND DELIVERY. ANY DAMAGE TO EQUIPMENT PRIOR TO DISCONNECTING SHOULD BE REPORTED TO THE OWNER'S REPRESENTATIVE. IF NOT REPORTED, THE CONTRACTOR TAKES FULL RESPONSIBILITY FOR REPAIRS TO THE EQUIPMENT.

E. BEFORE DISCONNECTING, REMOVING, OR SERVICING ANY AIR CONDITIONING EQUIPMENT OR SYSTEMS CONTAINING REFRIGERANTS, THE EQUIPMENT OR SYSTEMS SHALL BE EVACUATED OF ALL REFRIGERANT PER THE LATEST ADOPTED RULES AND REGULATIONS BY THE UNITED STATES ENVIRONMENTAL PROTECTION AGENCY (EPA). THE CONTRACTOR OR TECHNICIAN PERFORMING THE WORK SHALL BE CERTIFIED BY AN EPA APPROVED CERTIFYING AGENCY OR ORGANIZATION.

F. ALL DUCTWORK, PIPING, AND CONDUIT PENETRATIONS THROUGH RATED WALLS OR FLOORS SHALL BE PROVIDED WITH FIRE/SMOKE STOPPINGS PER SPECIFICATION. REFER TO CODE ANALYSIS DRAWING FOR ALL RATED WALL LOCATIONS. ALL FLOORS SHALL BE CONSIDERED RATED.

G. UNLESS SHOWN ON THE ARCHITECTURAL DRAWINGS, IT IS THE RESPONSIBILITY OF THIS CONTRACT TO PATCH AND FINISH ALL EXISTING DUCTWORK OR PIPE PENETRATIONS THROUGH FLOORS, ROOFS, INTERIOR WALLS, AND EXTERIOR WALLS AFTER DEMOLITION WORK. IN ADDITION, ALL NEW PENETRATIONS SHALL BE PROVIDED FOR INSTALLATION OF MECHANICAL SYSTEMS INCLUDING, BUT NOT LIMITED TO, EQUIPMENT, CURBING, DUCTWORK, PIPING, CONTROLS, ETC. PATCHING AND FINISHING SHALL MATCH EXISTING CONSTRUCTION INCLUDING FIRE RATINGS. PROVIDE LINTELS PER LINTEL SCHEDULE.

H. IT IS NOT THE INTENT OF THE DRAWINGS TO SHOW ALL AIR VENTS AND DRAINS IN THE PIPING SYSTEMS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE AIR VENTS AT ALL SYSTEM HIGH POINTS AND AT AREAS WITHIN THE PIPING SYSTEMS THAT COULD ACCUMULATE OR TRAP AIR WHICH WOULD PREVENT PROPER VENTING OR OPERATION OF THE SYSTEMS. DRAINS SHALL BE PROVIDED AT ALL LOW POINTS WITHIN THE PIPING SYSTEM TO FACILITATE COMPLETE DRAINING OF THE SYSTEM .

I. PROVIDE THERMAL EXPANSION COMPENSATORS AND THERMAL EXPANSION LOOPS IN PIPING SYSTEM PER INDUSTRY STANDARDS.

SPECIAL NOTES:

A. MECHANICAL CONTRACTOR SHALL PROVIDE COMMISIONING PER SECTION 230000.

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SHEET INFORMATION

Issued: 10/25/2024
Scale: NOT TO SCALE
Project Status: BID DOCUMENTS
Drawn By: KCM
Checked By: JJM
Drawing Title: HVAC SYMBOLS LEGEND AND CONTRACTOR NOTES
Drawing Number: TZHS H000

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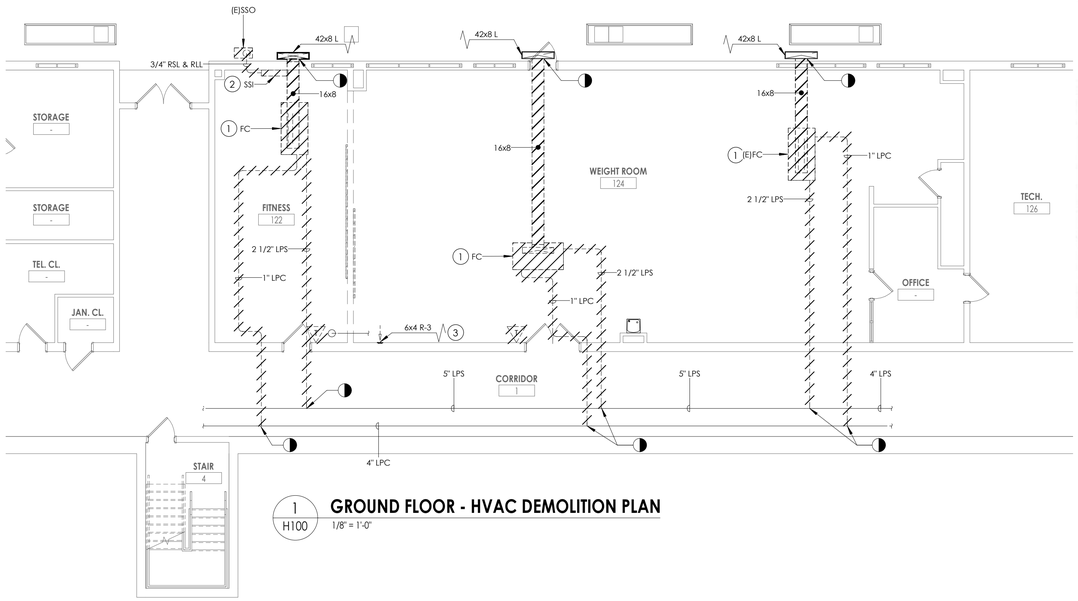
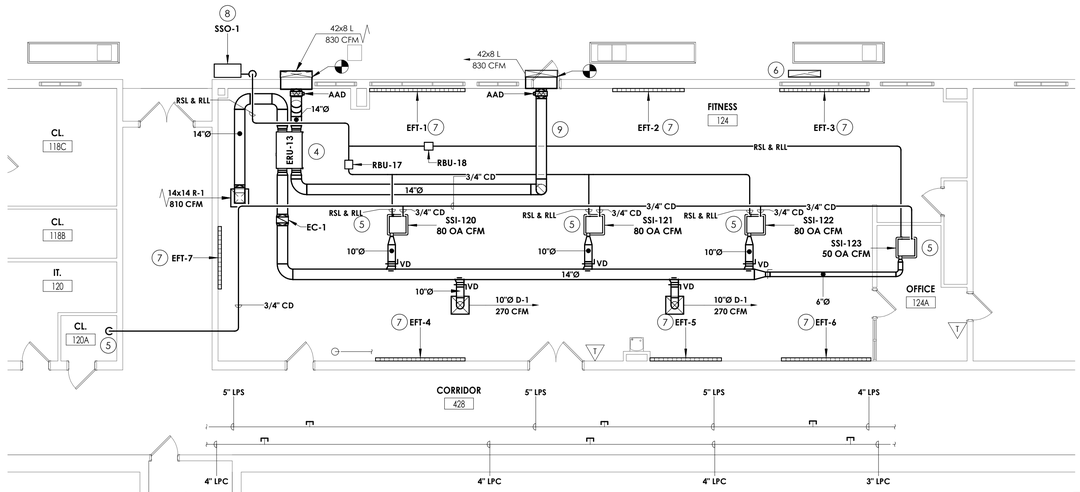


1 H100 GROUND FLOOR - HVAC DEMOLITION PLAN

1/8" = 1'-0"

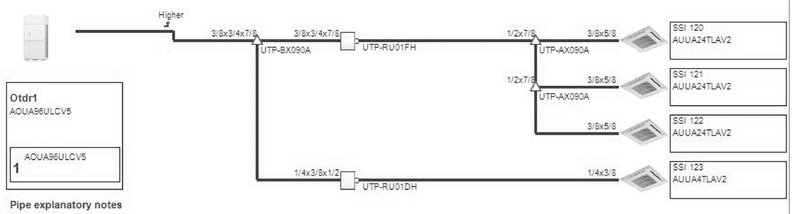


2 H100 GROUND FLOOR - HVAC NEW WORK PLAN

1/8" = 1'-0"

4.Piping Diagrams

4.1.Piping Otdr1 (VRF system)



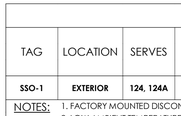
Pipe explanatory notes

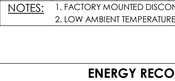
aa.x bb.x cc

aa:Liquid
bb:Discharge gas
cc:Suction gas

aa.x bb

aa:Liquid
bb:Gas





Do not install in or near areas where quietness is a priority, bedroom etc.

3 H100 SSO-1 PIPING DIAGRAM

NTS

KEY NOTES

1. REMOVE EXISTING FAN COIL UNIT IN ITS ENTIRETY.REMOVE SUPPORTS, ASSOCIATED OUTDOOR AIR DUCTWORK AND CONTROLS. PREPARE SPACE FOR NEW. REMOVE PIPING BACK TO MAIN AND CAP.
2. REMOVE EXISTING SPLIT UNIT AND PIPING. REMOVE ASSOCIATE CONDENSING UNIT. RETURN EQUIPMENT TO OWNER. PRIOR TO REMOVAL DRAIN ALL PIPING AND DISPOSE OF ALL REFRIGERANT PER THE LATEST ADOPTED RULES AND REGULATIONS BY THE UNITED STATES ENVIRONMENTAL PROTECTION AGENCY. CONTRACTOR OR TECHNICIAN PERFORMING THE WORK SHALL BE AN EPA APPROVED AGENCY OR ORGINIZATION.
3. REMOVE TRANSFER GRILLE. PATCH WALL WITH LIKE CONSTRUCTION AND PAINT TO MATCH.
4. PROVIDE NEW ENERGY RECOVERY UNIT AND DUCTWORK. UNIT AND DUCTWORK ARE TO BE MOUNTED ABOVE THE ACT CEILING GRID. ROUTE OUTDOOR AIR SUPPLY AND EXHAUST DUCTWORK TO EXTERIOR LOUVERS. CONNECT SUPPLY DUCTWORK TO THE NEW SPLIT UNITS.
5. MOUNT SPLIT UNIT IN ACT CEILING GRID. COORDINATE WITH ARCHITECURAL, STRUCTURAL, AND LIGHTING PLANS. ROUTE RSL/RLL PIPING ABOVE TO THE CONDENSER. ROUTE CONDENSATE PIPING TO MOP SINK IN JANITORS CLOSET.
6. CAP DUCT AND BLANK OFF LOUVER WITH INSULATION.
7. PROVIDE ELECTRIC FIN TUBE.
8. MOUNT SSO TO PAVED AREA. MAINTAIN RECOMMENDED CLEARANCES FROM MANUFACTURER.
9. DUCT UP INTO JOIST SPACE.

ELECTRIC FINNED TUBE SCHEDULE

TAG	LENGTH (FT)	ELECTRICAL					ENCLOSURE			TYPICAL UNIT MFG & MODEL NO.	NOTES:
		WATT	BTUH	VOLT	PH	HZ	H (IN.)	D (IN.)	STYLE		
EFT-1	10	2500	8532	208	1	60	6	3	SLOPE	VULCAN SB-10250	1,2
EFT-2	8	2000	6826	208	1	60	6	3	SLOPE	VULCAN SB-8250	1,2
EFT-3	10	2500	8532	208	1	60	6	3	SLOPE	VULCAN SB-10250	1,2
EFT-4	10	2500	8532	208	1	60	6	3	SLOPE	VULCAN SB-10250	1,2
EFT-5	8	2000	6826	208	1	60	6	3	SLOPE	VULCAN SB-8250	1,2
EFT-6	10	2500	8532	208	1	60	6	3	SLOPE	VULCAN SB-10250	1,2
EFT-7	7	1400	4774	208	1	60	6	3	SLOPE	VULCAN SB-7200	1,2

NOTES:
1. COLOR BY ARCHITECT.
2. COORDINATE HEIGHT WITH ELECTRICAL DEVICES.

VRF INDOOR UNITS

MARK	ROOM SERVED	TYPE	AIRFLOW (H/M/L) (CFM)	OUTDOOR AIRFLOW (CFM)	NOM.HEATING CAPACITY (MBH)	NOM.COOLING CAPACITY (MBH)	DIMENSIONS (W" X H" X D")	WEIGHT (LBS)	POWER (Ø/V/Hz)	MOCP	FLA	TYPICAL UNIT MFG & MODEL NO.	NOTES
SSI-120	124	CEILING CASSETTE	607/465/330	80	27	24	23 X 23 X 10	44	208/1/60	0.78	0.62	FUJITSU AUUA24TLAV2	1,2,3,4,5
SSI-121	124	CEILING CASSETTE	607/465/330	80	27	24	23 X 23 X 10	44	208/1/60	0.78	0.62	FUJITSU AUUA24TLAV2	1,2,3,4,5
SSI-122	124	CEILING CASSETTE	607/465/330	80	27	24	23 X 23 X 10	44	208/1/60	0.78	0.62	FUJITSU AUUA24TLAV2	1,2,3,4,5
SSI-123	124A	CEILING CASSETTE	312/265/230	50	4.4	4	23 X 23 X 10	40	208/1/60	0.29	0.23	FUJITSU AUUA4TLAV2	1,2,3,4,5

NOTES:
1. UNIT MOUNTED AND WIRED DISCONNECT.
2. BAC NET INTERGRATION TO BMS.
3. COLOR WHITE.
4. CONDENSATE PUMP.
5. OUTDOOR UNIT POWERS INDOOR UNITS.

VRF BRANCH SELECTOR UNITS

MARK	NUMBER OF BRANCHES AVAILABLE	NUMBER OF BRANCHES USED	MAX TOTAL CAPACITY (MBH)	MAX BRANCH CAPACITY (MBH)	CONNECTED TOTAL HEATING CAPACITY (MBH)	CONNECTED TOTAL COOLING CAPACITY (MBH)	DIMENSIONS (H × W × D)	POWER (V/Ø/HZ)	POWER (WATTS)	TYPICAL UNIT MFG & MODEL NO.
RBU-17	1	1	96	96	85.4	76	11 X 33 X 15	208/1/60	41	FUJITSU UTP-RU01FH
RBU-18	1	1	96	96	85.4	76	11 X 33 X 15	208/1/60	41	FUJITSU UTP-RU01FH

SPLIT SYSTEM OUTDOOR CONDENSING UNIT SCHEDULE

TAG	LOCATION	SERVES	NOMINAL TONS	MBH COOLING	MBH HEATING	ELECTRICAL DATA					DIMENSIONS (H X W X D)	WT (LB)	IEER	TYPICAL UNIT MFG & MODEL NO.	NOTES:
						FAN DATA		COMPRESSOR RLA	SYSTEM MCA	POWER (V/Ø/HZ)					
						MOTOR WATTS	MOTOR FLA								
SSO-1	EXTERIOR	124, 124A	8	96	108	375 X 2	1.4 + 0.9	27.5	39	208/3/60	69-9/16 X 42-1/4 X 23-5/8	511	23.1	FUJITSU AOU96RLAVL	1,2

NOTES:
1. FACTORY MOUNTED DISCONNECT
2. LOW AMBIENT TEMPERATURE KIT

ELECTRIC REHEAT COIL SCHEDULE

TAG	LOCATION	AIR DATA				ELECTRICAL			MFG SIZE H (IN.)	MFG SIZE L (IN.)	ROWS	TYPICAL UNIT MFG & MODEL NO.	NOTES:
		CFM	TEMP °F ENT	TEMP °F LVG	MAX APD (IN WC)	KW	VOLTS	Ø	AMPS					
EC-1	FITNESS ROOM	830	40	72	0.08	28.68	208	3	138	12	12	4	INDEECO QUZ	1,2,3

NOTES:
1. PROVIDE PROPORTIONAL SCR CONTROLS AND DUCT TEMPERATURE SENSOR.
2. CONNECT TO BMS.
3. FACTORY MOUNTED AND WIRED DISCONNECT.

ENERGY RECOVERY UNITS (INDOORS)

TAG	LOCATION	AREA SERVED	SA (CFM)	EA (CFM)	RA (CFM)	SUPPLY FAN				EXHAUST FAN				OPERATING WEIGHT (LBS)	FILTERS	ELECTRICAL REQUIREMENTS			TYPICAL UNIT MFG & MODEL NO.	NOTES:
						FAN TYPE	E.S.P. (IN. WC)	WATTS	HP	FAN TYPE	E.S.P. (IN. WC)	WATTS	HP			V/Ø/HZ	FLA	MCA		
ERU-13	124	124, 125	830	830	830	DIRECT	0.5	1270	0.75	DIRECT	0.5	1270	0.75	275	MERV 13	208/1/60	4.5	10.1	RENEWAIRE HE1XINH	1,2,3,4

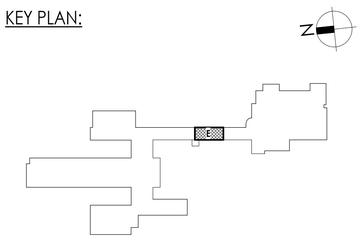
NOTES:
1. FACTORY MOUNTED AND WIRED DISCONNECT.
2. FRESH AIR AND EXHAUST DAMPERS.
3. TERMINAL STRIP FOR BMS CONTROL OF FAN AND DAMPERS.
4. DIRTY FILTER SENSORS.

REGISTERS, GRILLES, AND DIFFUSERS (FITNESS AREA)

TAG	APPLICATION	MATERIAL	TYPE	FINISH	DESIGN EQUIP.	NOTES:
D-1	SUPPLY	STEEL	LAY-IN	WHITE	PRICE SPD	1
R-1	RETURN/EA	STEEL	LAY-IN	WHITE	PRICE PDR	1

NOTES: 1. INSULATED BACK PAN.

KEY PLAN:



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SOUTH ORANGETOWN Central School District
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14457.20

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Jennifer Wengender 06/30/27

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SHEET INFORMATION

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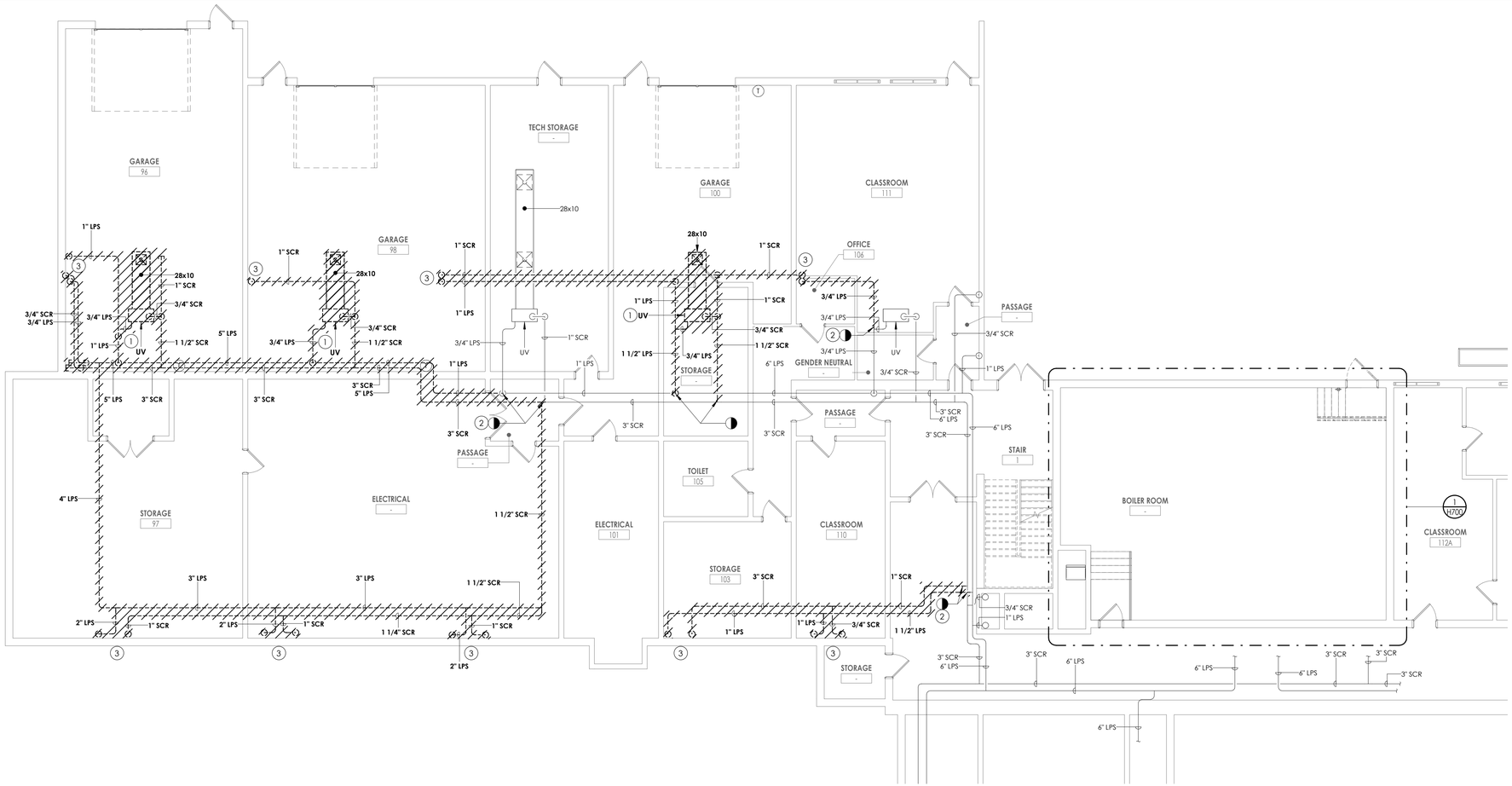
Drawn By: KCM
Checked By: JJM
Drawing Title: GROUND FLOOR DEMOLITION & NEW WORK PLAN - AREA E

Drawing Number
TZHS
H100



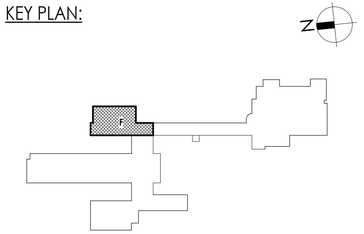
KEY NOTES

1. REMOVE UNIT VENTILATOR AND TEMPERATURE CONTROLS. REMOVE PIPING TO POINT INDICATED AND CAP.
2. REMOVE PIPING FROM FLOOR ABOVE TO POINT INDICATED AND CAP.
3. REMOVE PIPING TO UNIT/UNITS ABOVE.

1 / H100F GROUND FLOOR HVAC PIPING DEMOLITION PLAN - AREA F

1/8" = 1'-0"

KEY PLAN:



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10/25/2024

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1/8" = 1'-0"

Project Status
BID DOCUMENTS

Drawn By
KCM

Checked By
JJM

Drawing Title
GROUND FLOOR HVAC PIPING DEMOLITION PLAN - AREA F

Drawing Number
TZHS
H100F

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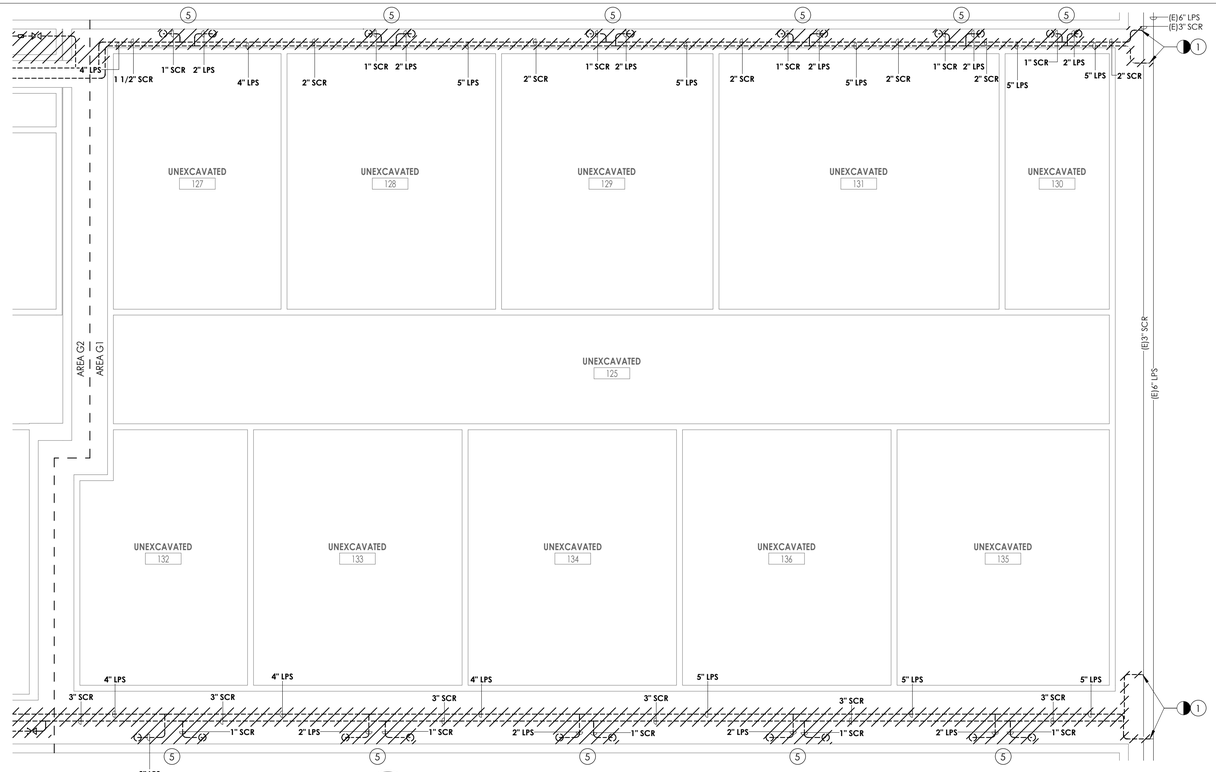
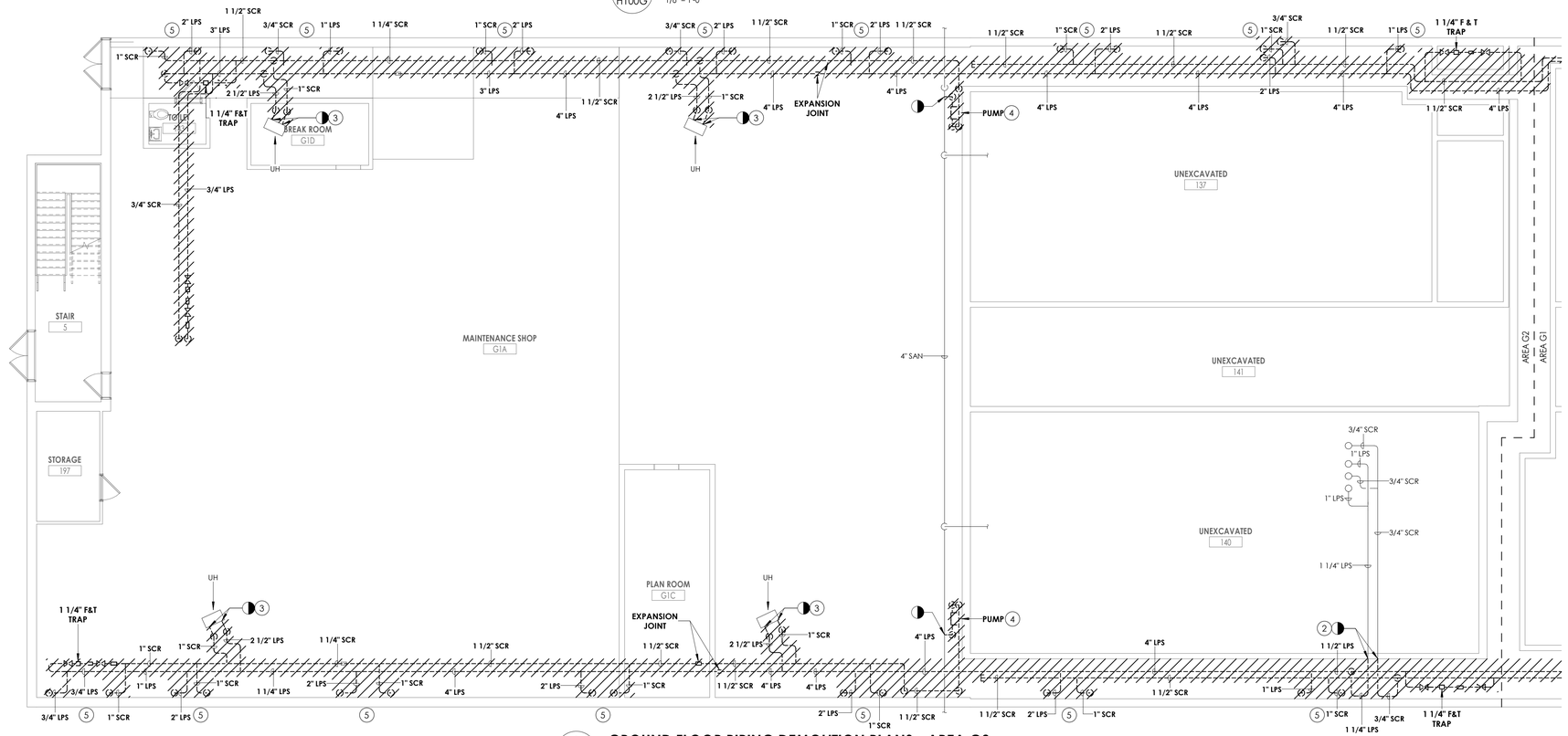


1 H100G **CRAWL SPACE PIPING DEMOLITION PLAN - AREA G1**

1/8" = 1'-0"



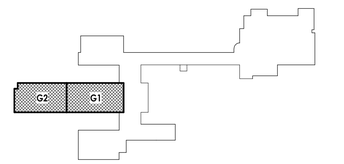
2 H100G **GROUND FLOOR PIPING DEMOLITION PLANS - AREA G2**

1/8" = 1'-0"

KEY NOTES

1. REMOVE PIPING TO POINT INDICATED AND CAP AT MAIN.
2. REMOVE PIPING TO POINT INDICATED AND CAP AT WALL.
3. DISCONNECT PIPING FROM UNIT HEATER AND PREPARE HEATER FOR NEW CONNECTIONS.
4. REMOVE PUMP AND ASSOCIATED PIPING BACK TO POINT INDICATED AND CAP.
5. REMOVE PIPING TO UNIT/UNITS ABOVE.

KEY PLAN:



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SHEET INFORMATION

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Project Status
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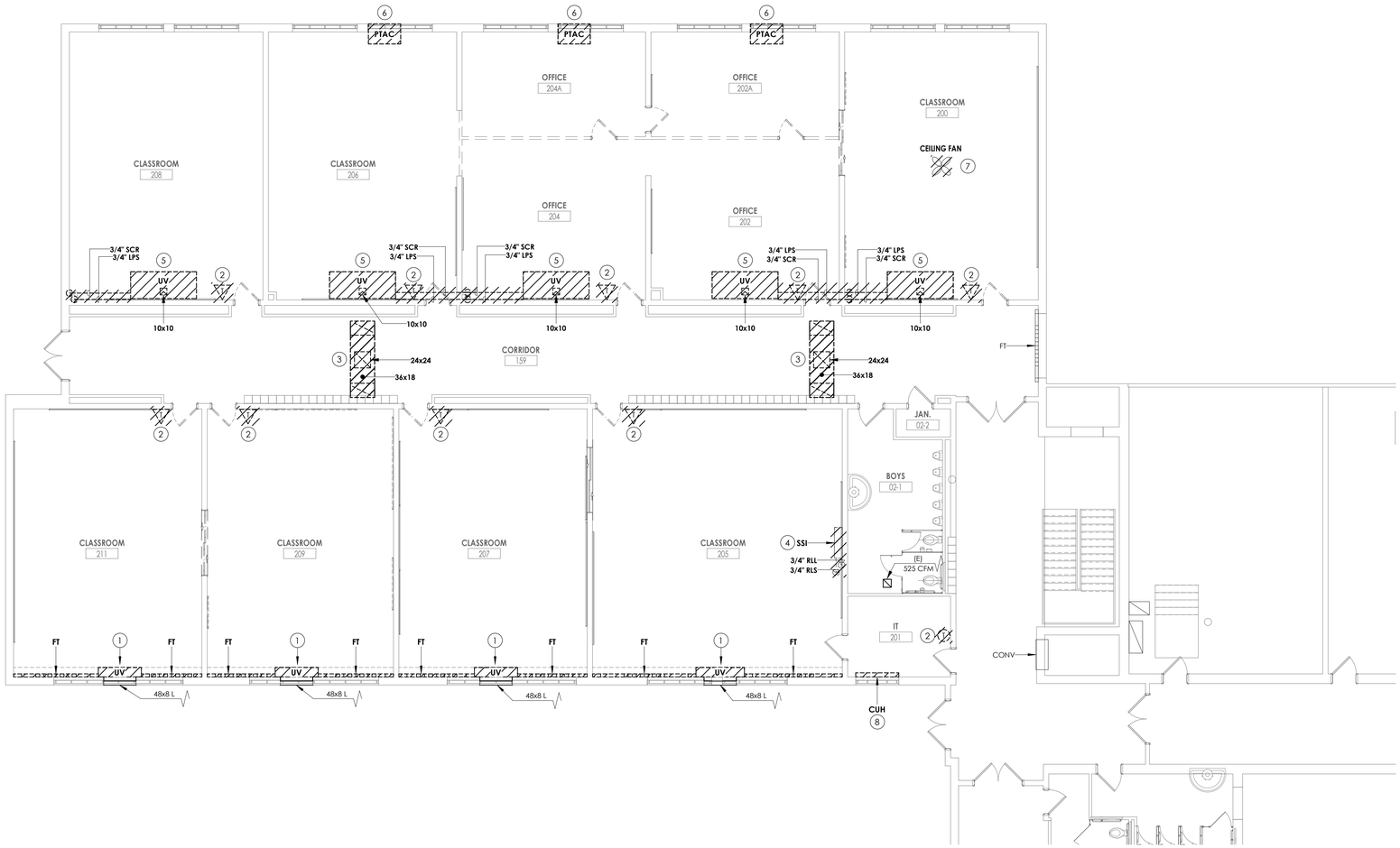
KCM	JJM

Drawing Title
GROUND FLOOR HVAC PIPING DEMOLITION PLAN - AREA G

Drawing Number
TZHS
H100G



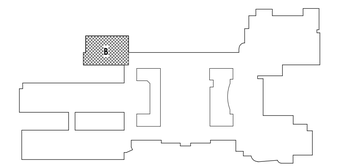
FIRST FLOOR - HVAC DEMOLITION PLAN - AREA B

1/8" = 1'-0"

KEY NOTES

1. REMOVE EXISTING UNIT VENTILATOR, FINTUBE AND PIPING. LOUVER AND SLEEVE TO REMAIN. REFER TO ARCHITECTURAL PLANS.
2. REMOVE EXISTING TEMPERATURE SENSOR AND WIRING BACK TO CONTROL HEAD END. PREPARE FOR NEW WORK.
3. REMOVE EXISTING EXHAUST DUCTWORK AND GRILLES BACK TO THE EXHAUST FAN ON THE ROOF. COORDINATE WITH NEW ROOF PENETRATIONS.
4. REMOVE EXISTING REFRIGERANT PIPING FROM CONDENSING UNIT ON ROOF TO UNIT IN THE CLASSROOM. PRIOR TO REMOVAL DRAIN ALL PIPING AND DISPOSE OF ALL REFRIGERANT PER THE LATEST ADAPTED RULES AND REGULATION BY THE UNITED STATES ENVIRONMENTAL PROTECTION AGENCY (EPA). CONTRACTOR OR TECHNICIAN PERFORMING THE WORK SHALL BE AN EPA APPROVED AGENCY OR ORGANIZATION. REMOVE EXISTING INDOOR AND OUTDOOR SPLIT SYSTEMS. PATCH CURB WEATHER TIGHT.
5. REMOVE EXISTING CEILING MOUNTED UNIT VENTILATOR, PIPING, SUPPORTS, DUCT UP TO ROOF GRAVITY HOOD AND CONTROLS.
6. REMOVE PTAC UNIT IN WINDOW.
7. REMOVE CEILING FAN AND CONTROLS.
8. REMOVE CABINET UNIT HEATER AND ASSOCIATED PIPING.

KEY PLAN:



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NY ENGINEERING FIRM CERTIFICATE #0021419

SOUTH ORANGETOWN Central School District
Capital Improvements Bond
Essential Infrastructure for Student Health, Safety and Success

PROJECT INFORMATION

Project Number
14457.20

Client Name
SOUTH ORANGETOWN CENTRAL SCHOOL DISTRICT

Project Name
PHASE 2: 2022 BOND

TAPPAN ZEE HIGH SCHOOL

Building Address
160 VAN WYCK RD., BLAUVELT, NY 10913

SED # 50-03-01-06-0-006-033

Registration Expiration Dates
Lauren Tonio 09/30/26
Anthony Marchetti 05/31/27
Dave Hart 02/28/25
Jennifer Wengender 06/30/27

PROJECT ISSUE & REVISION SCHEDULE

#	Date	Description

PROFESSIONAL STAMPS

NEW YORK STATE EDUCATION STATEMENT

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SHEET INFORMATION

Issued
10/25/2024

Scale
1/8" = 1'-0"

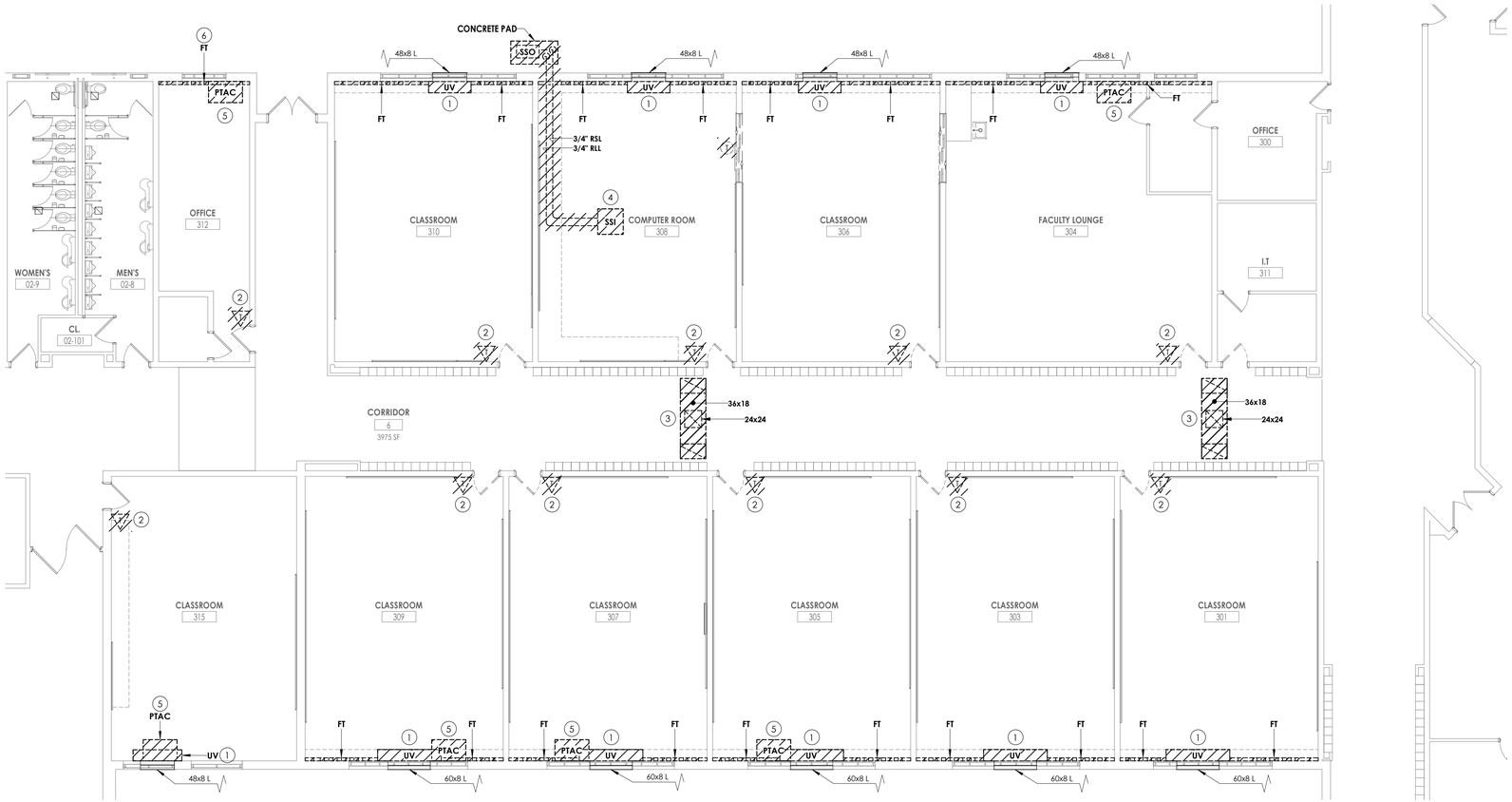
Project Status
BID DOCUMENTS

Drawn By
KCM

Checked By
JJM

Drawing Title
FIRST FLOOR DEMOLITION PLAN - AREA B

Drawing Number
TZHS
H101



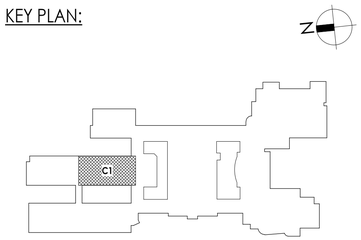
1 H102 **FIRST FLOOR - HVAC DEMOLITION PLAN - AREA C1**

1/8" = 1'-0"

KEY NOTES

1. REMOVE EXISTING UNIT VENTILATOR, FINTUBE AND PIPING. LOUVER AND SLEEVE TO REMAIN. REFER TO ARCHITECTURAL PLANS.
2. REMOVE EXISTING TEMPERATURE SENSORS AND WIRING BACK TO CONTROL HEAD END. PREPARE FOR NEW WORK.
3. REMOVE EXISTING EXHAUST DUCTWORK AND GRILLES BACK TO EXHAUST FAN ON THE ROOF.
4. REMOVE EXISTING REFRIGERANT PIPING FROM CONDENSING UNIT OUTSIDE TO CEILING UNIT IN THE CLASSROOM. PRIOR TO REMOVAL, DRAIN ALL PIPING AND DISPOSE OF ALL REFRIGERANT PER THE LATEST ADAPTED RULES AND REGULATION BY THE UNITED STATES ENVIRONMENTAL PROTECTION AGENCY (EPA). CONTRACTOR OR TECHNICIAN PERFORMING THE WORK SHALL BE AN EPA APPROVED AGENCY OR ORGANIZATION. REMOVE EXISTING INDOOR AND OUTDOOR SPLIT SYSTEMS.
5. REMOVE PTAC UNIT IN WINDOW.
6. REMOVE FIN TUBE AND ASSOCIATED PIPING BELOW THE FLOOR.

KEY PLAN:



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SHEET INFORMATION

Issued
10/25/2024

Scale
1/8" = 1'-0"

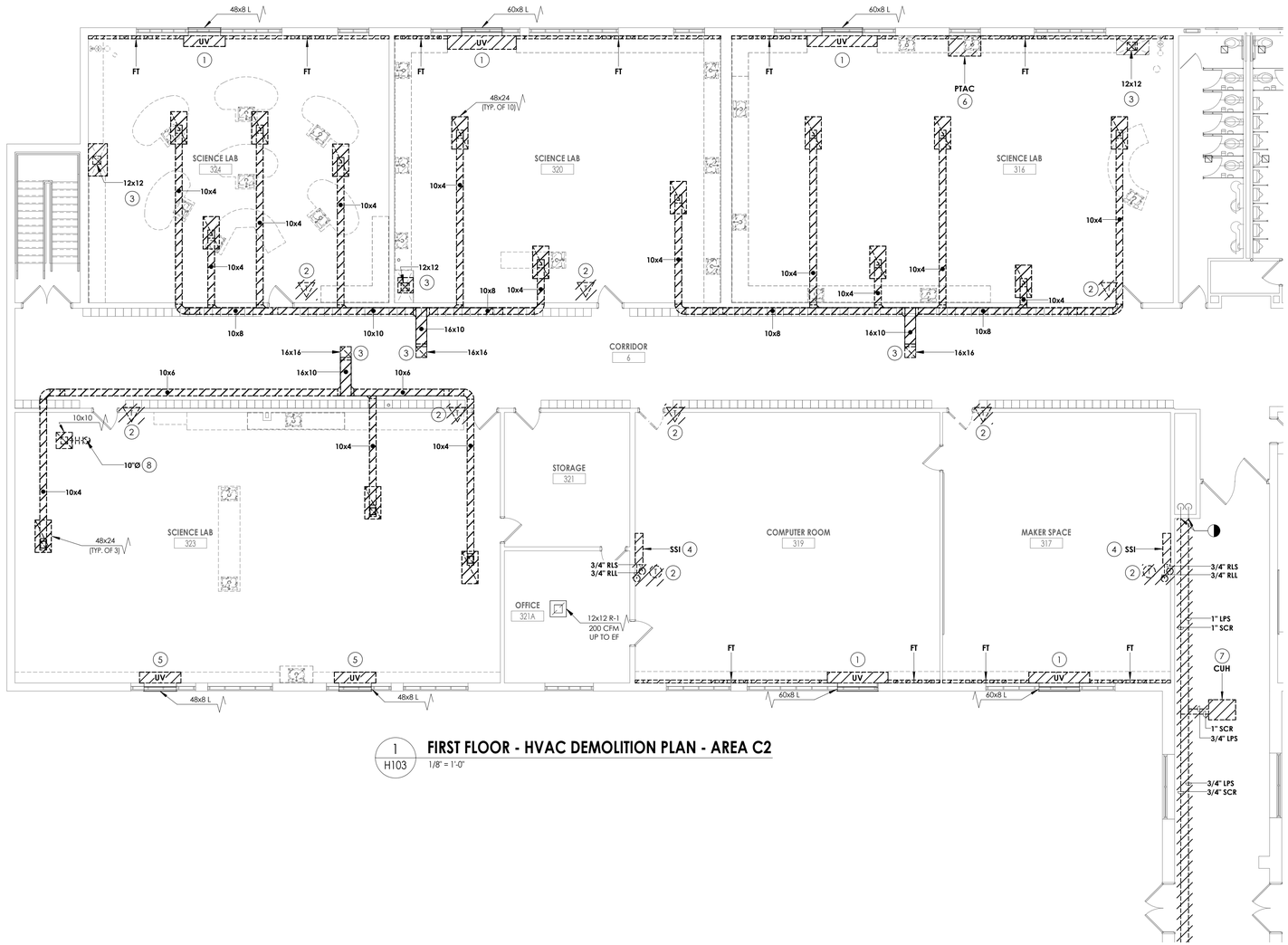
Project Status
BID DOCUMENTS

Drawn By
KCM

Checked By
JJM

Drawing Title
FIRST FLOOR DEMOLITION PLAN - AREA C1

Drawing Number
TZHS
H102



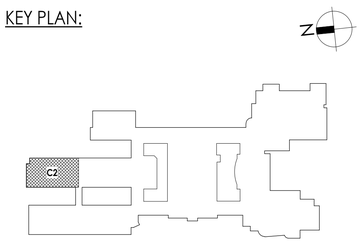
1 H103 **FIRST FLOOR - HVAC DEMOLITION PLAN - AREA C2**

1/8" = 1'-0"

KEY NOTES

1. REMOVE EXISTING UNIT VENTILATOR AND FINTUBE. REMOVE PIPING TO LOWER LEVEL. LOUVER AND SLEEVE TO REMAIN. REFER TO ARCHITECTURAL PLANS.
2. REMOVE EXISTING TEMPERATURE SENSORS AND WIRING BACK TO CONTROL HEAD END. PREPARE FOR NEW WORK.
3. REMOVE EXISTING EXHAUST HOOD AND ASSOCIATED DUCTWORK BACK TO EXHAUST FAN ON THE ROOF.
4. REMOVE EXISTING REFRIGERANT PIPING FROM CONDENSING UNIT ON ROOF TO UNIT IN THE CLASSROOM. PRIOR TO REMOVAL, DRAIN ALL PIPING AND DISPOSE OF ALL REFRIGERANT PER THE LATEST ADAPTED RULES AND REGULATION BY THE UNITED STATES ENVIRONMENTAL PROTECTION AGENCY (EPA). CONTRACTOR OR TECHNICIAN PERFORMING THE WORK SHALL BE AN EPA APPROVED AGENCY OR ORGANIZATION. REMOVE EXISTING INDOOR AND OUTDOOR SPLIT SYSTEMS. PATCH CURB WEATHER TIGHT.
5. REMOVE UNIT VENTILATOR AND ASSOCIATED PIPING. LOUVER AND SLEEVE TO REMAIN. REMOVE CASEWORK BACK TO FLOOR.
6. REMOVE PTAC UNIT IN WINDOW.
7. REMOVE CABINET UNIT HEATER AND REMOVE PIPING TO POINT INDICATED.
8. REMOVE EXISTING EXHAUST GRILLE AND ASSOCIATED DUCTWORK BACK TO EXHAUST FAN ON THE ROOF.

KEY PLAN:



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SOUTH ORANGETOWN Central School District
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PROJECT INFORMATION

Project Number
14457.20

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SOUTH ORANGETOWN CENTRAL SCHOOL DISTRICT

Project Name
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Jennifer Wengender 06/30/27

PROJECT ISSUE & REVISION SCHEDULE

#	Date	Description

PROFESSIONAL STAMPS

SHEET INFORMATION

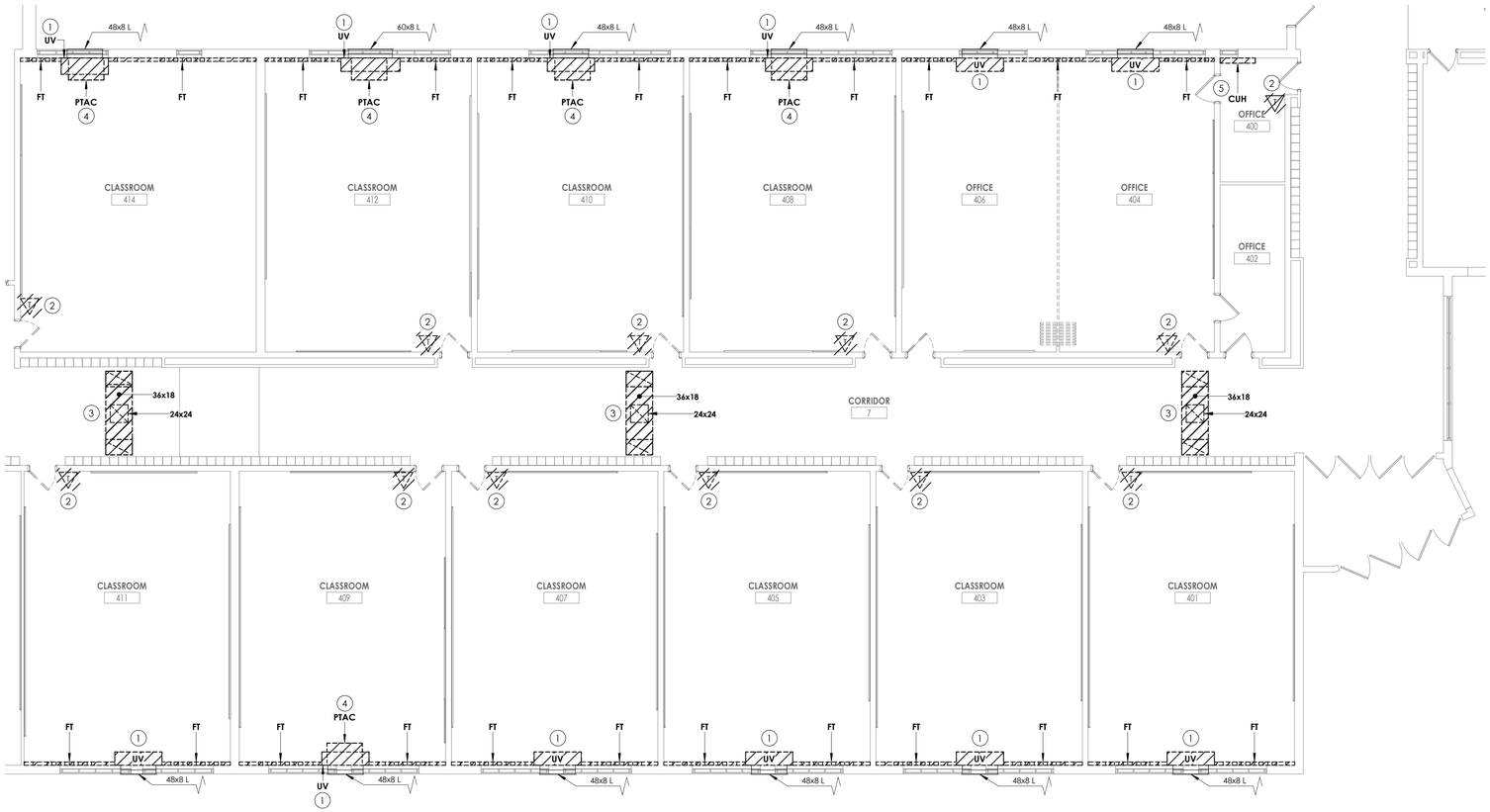
Issued	Scale
10/25/2024	1/8" = 1'-0"

Project Status
BID DOCUMENTS

Drawn By	Checked By
KCM	JJM

Drawing Title
FIRST FLOOR DEMOLITION PLAN - AREA C2

Drawing Number
TZHS
H103



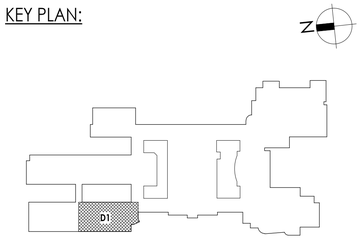
1 H104 **FIRST FLOOR - HVAC DEMOLITION PLAN - AREA D1**

1/8" = 1'-0"

KEY NOTES

1. REMOVE EXISTING UNIT VENTILATOR AND FINTUBES. REMOVE ASSOCIATED PIPING TO FLOOR AND CAP. LOUVER AND SLEEVE TO REMAIN. REFER TO ARCHITECTURAL PLANS.
2. REMOVE EXISTING TEMPERATURE SENSORS AND WIRING BACK TO CONTROL HEAD END. PREPARE FOR NEW WORK.
3. REMOVE EXISTING EXHAUST DUCTWORK AND GRILLES BACK TO EXHAUST FAN ON THE ROOF.
4. REMOVE PTAC UNIT IN WINDOW.
5. REMOVE CABINET UNIT HEATER AND REMOVE ASSOCIATED PIPING TO FLOOR AND CAP.

KEY PLAN:



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SOUTH ORANGETOWN Central School District
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Essential Infrastructure for Student Health, Safety and Success

PROJECT INFORMATION

Project Number
14457.20

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SOUTH ORANGETOWN CENTRAL SCHOOL DISTRICT

Project Name
PHASE 2: 2022 BOND

TAPPAN ZEE HIGH SCHOOL

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Dave Hart 02/28/25
Jennifer Wengender 06/30/27

PROJECT ISSUE & REVISION SCHEDULE

#	Date	Description

PROFESSIONAL STAMPS

NEW YORK STATE EDUCATION STATEMENT

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SHEET INFORMATION

Issued
10/25/2024

Scale
1/8" = 1'-0"

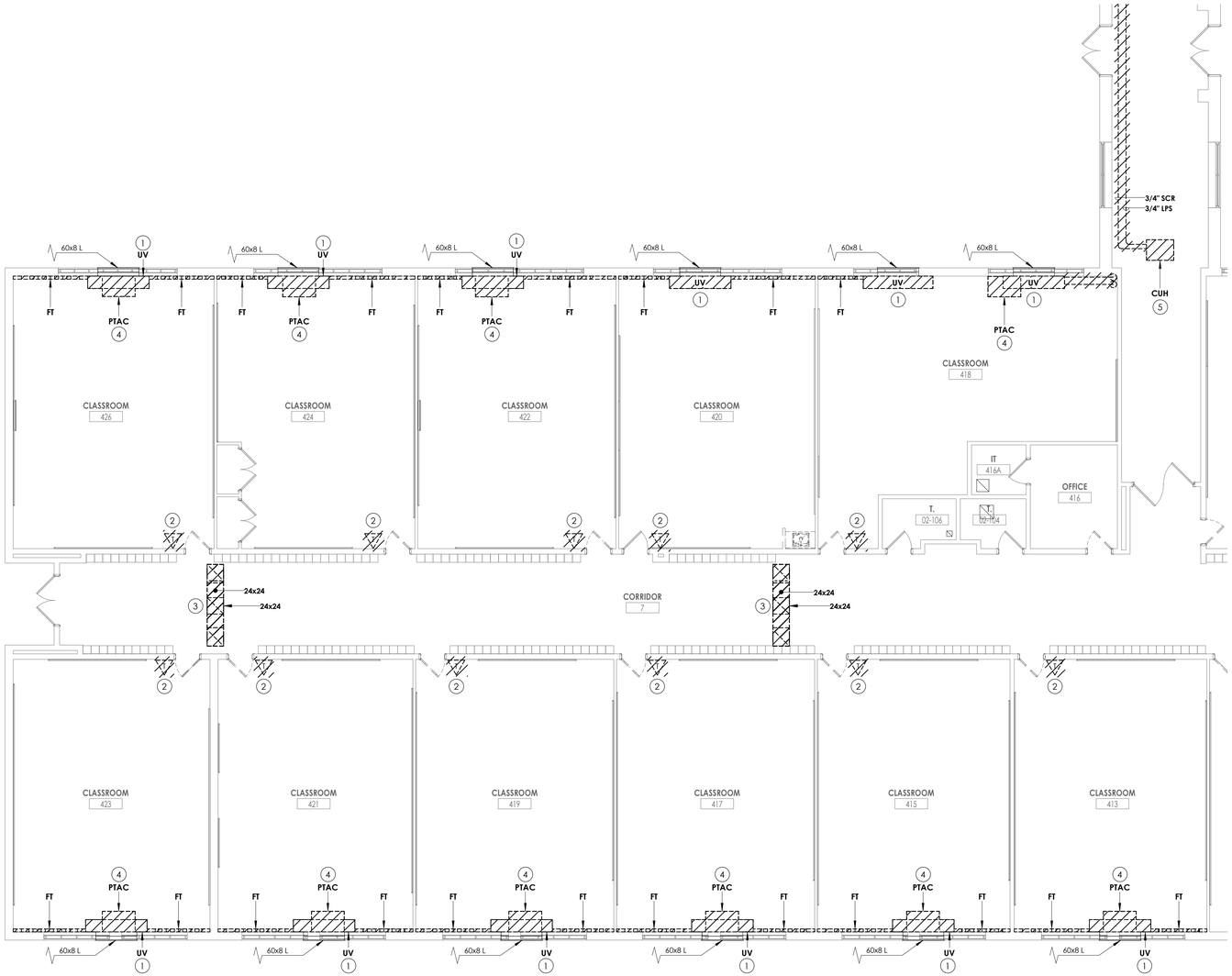
Project Status
BID DOCUMENTS

Drawn By
KCM

Checked By
JJM

Drawing Title
FIRST FLOOR DEMOLITION PLAN - AREA D1

Drawing Number
TZHS
H104



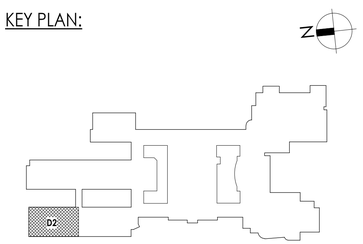
1 H105 **FIRST FLOOR - HVAC DEMOLITION PLAN - AREA D2**

1/8" = 1'-0"

KEY NOTES

1. REMOVE EXISTING UNIT VENTILATOR AND FINTUBE. REMOVE ASSOCIATED PIPING TO FLOOR AND CAP. LOUVER AND SLEEVE TO REMAIN. REFER TO ARCHITECTURAL PLANS.
2. REMOVE EXISTING TEMPERATURE SENSORS AND WIRING BACK TO CONTROL HEAD END. PREPARE FOR NEW WORK.
3. REMOVE EXISTING EXHAUST DUCTWORK AND GRILLES BACK TO EXHAUST FAN ON THE ROOF.
4. REMOVE PTAC UNIT IN WINDOW.
5. REMOVE CABINET UNIT HEATER AND REMOVE ASSOCIATED PIPING TO INDICATED POINT REFERENCED IN H103.

KEY PLAN:



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NY ENGINEERING FIRM CERTIFICATE #0021419

SOUTH ORANGETOWN Central School District
Capital Improvements Bond
Essential Infrastructure for Student Health, Safety and Success

PROJECT INFORMATION

Project Number
14457.20

Client Name
SOUTH ORANGETOWN CENTRAL SCHOOL DISTRICT

Project Name
PHASE 2: 2022 BOND

TAPPAN ZEE HIGH SCHOOL

Building Address
160 VAN WYCK RD., BLAUVELT, NY 10913

SED # 50-03-01-06-0-006-033

Registration Expiration Dates
Lauren Tonio 09/30/26
Anthony Marchetti 05/31/27
Dave Hart 02/28/25
Jennifer Wengender 06/30/27

PROJECT ISSUE & REVISION SCHEDULE

#	Date	Description

PROFESSIONAL STAMPS

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SHEET INFORMATION

Issued	Scale
10/25/2024	1/8" = 1'-0"

Project Status
BID DOCUMENTS

Drawn By	Checked By
KCM	JJM

Drawing Title
FIRST FLOOR DEMOLITION PLAN - AREA D2

Drawing Number
TZHS
H105

10/24/2024 12:25:27 PM <project location>\REVIT PROJECT FILES ON BIM 360

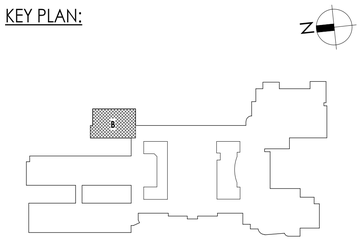
1 / H111 **ROOF - HVAC DEMOLITION PLAN - AREA B**

1/8" = 1'-0"

KEY NOTES

1. REMOVE EXHAUST FAN AND CURB. PREPARE FOR NEW WORK.
2. REMOVE EXHAUST FAN AND CURB. COORDINATE WITH GC FOR PATCHING.
3. REMOVE EXISTING REFRIGERANT PIPING FROM CONDENSING UNIT ON ROOF TO UNIT IN THE CLASSROOM. PRIOR TO REMOVAL, DRAIN ALL PIPING AND DISPOSE OF ALL REFRIGERANT PER THE LATEST ADAPTED RULES AND REGULATION BY THE UNITED STATES ENVIRONMENTAL PROTECTION AGENCY (EPA). CONTRACTOR OR TECHNICIAN PERFORMING THE WORK SHALL BE AN EPA APPROVED AGENCY OR ORGANIZATION. REMOVE EXISTING INDOOR AND OUTDOOR SPLIT SYSTEMS. REMOVE CURB.
4. REMOVE GRAVITY INTAKE AND CURB. COORDINATE WITH GC FOR PATCHING.

KEY PLAN:



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NY ENGINEERING FIRM CERTIFICATE #0021419

SOUTH ORANGETOWN Central School District
Capital Improvements Bond
Essential Infrastructure for Student Health, Safety and Success

PROJECT INFORMATION

Project Number
14457.20

Client Name
SOUTH ORANGETOWN CENTRAL SCHOOL DISTRICT

Project Name
PHASE 2: 2022 BOND

TAPPAN ZEE HIGH SCHOOL

Building Address
160 VAN WYCK RD., BLAUVELT, NY 10913

SED # 50-03-01-06-0-006-033

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SHEET INFORMATION

Issued
10/25/2024

Scale
1/8" = 1'-0"

Project Status
BID DOCUMENTS

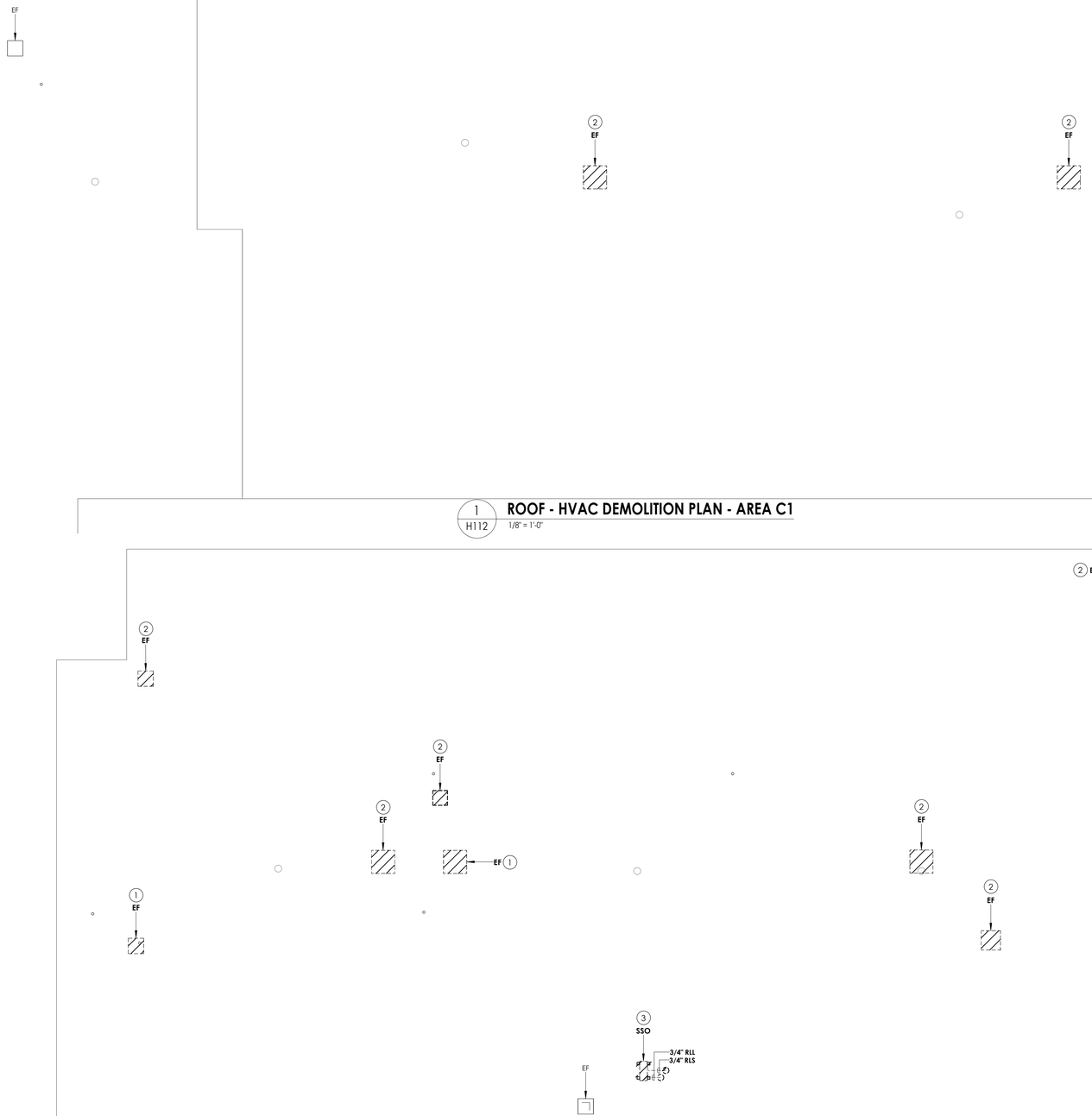
Drawn By
KCM

Checked By
JJM

Drawing Title
ROOF DEMOLITION PLAN - AREA B

Drawing Number
TZHS
H111

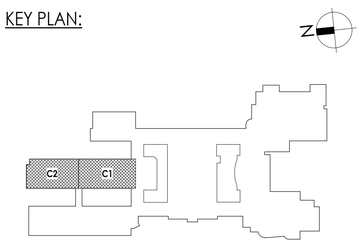
10/24/2024 12:25:34 PM <project location>:\REVIT PROJECT FILES ON BIM 360



KEY NOTES

1. REMOVE EXHAUST FAN AND CURB. PREPARE FOR NEW WORK.
2. REMOVE EXHAUST FAN AND CURB. COORDINATE WITH GC FOR PATCHING.
3. REMOVE EXISTING REFRIGERANT PIPING FROM CONDENSING UNIT ON ROOF TO UNIT IN THE CLASSROOM. PRIOR TO REMOVAL, DRAIN ALL PIPING AND DISPOSE OF ALL REFRIGERANT PER THE LATEST ADAPTED RULES AND REGULATION BY THE UNITED STATES ENVIRONMENTAL PROTECTION AGENCY (EPA). CONTRACTOR OR TECHNICIAN PERFORMING THE WORK SHALL BE AN EPA APPROVED AGENCY OR ORGANIZATION. REMOVE EXISTING INDOOR AND OUTDOOR SPLIT SYSTEMS. PATCH CURB WEATHER TIGHT.

KEY PLAN:



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NY ENGINEERING FIRM CERTIFICATE #0021419

SOUTH ORANGETOWN Central School District
Capital Improvements Bond
Essential Infrastructure for Student Health, Safety and Success

PROJECT INFORMATION

Project Number
1457.20

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SOUTH ORANGETOWN CENTRAL SCHOOL DISTRICT

Project Name
PHASE 2: 2022 BOND

TAPPAN ZEE HIGH SCHOOL

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SHEET INFORMATION

Issued
10/25/2024

Scale
1/8" = 1'-0"

Project Status
BID DOCUMENTS

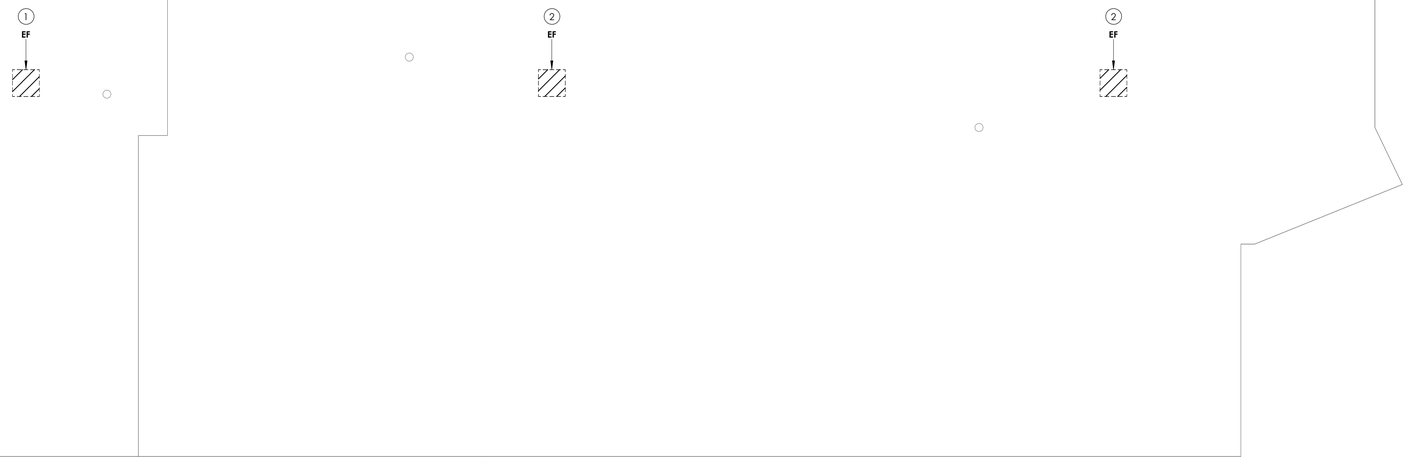
Drawn By
KCM

Checked By
JJM

Drawing Title
ROOF DEMOLITION PLAN - AREA C

Drawing Number
TZHS
H112

10/24/2024 12:25:42 PM <project location>\REVIT PROJECT FILES ON BIM 360



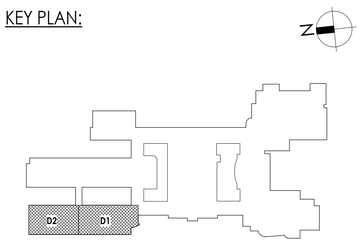
1 H113 **ROOF - HVAC DEMOLITION PLAN - AREA D1**
1/8" = 1'-0"

2 H113 **ROOF - HVAC DEMOLITION PLAN - AREA D2**
1/8" = 1'-0"

KEY NOTES

1. REMOVE EXHAUST FAN AND CURB. PREPARE FOR NEW WORK.
2. REMOVE EXHAUST FAN AND CURB. COORDINATE WITH GC FOR PATCHING.

KEY PLAN:



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SHEET INFORMATION

Issued
10/25/2024

Scale
1/8" = 1'-0"

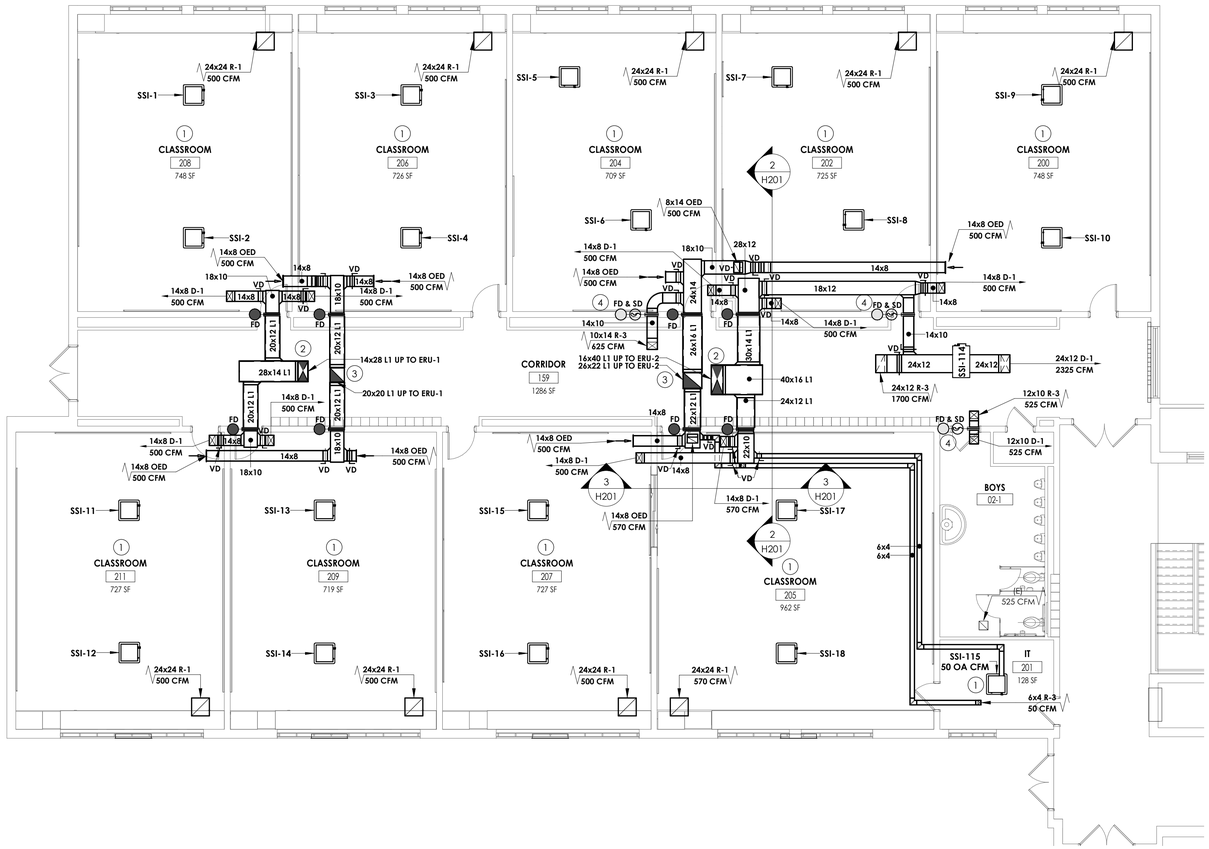
Project Status
BID DOCUMENTS

Drawn By
KCM

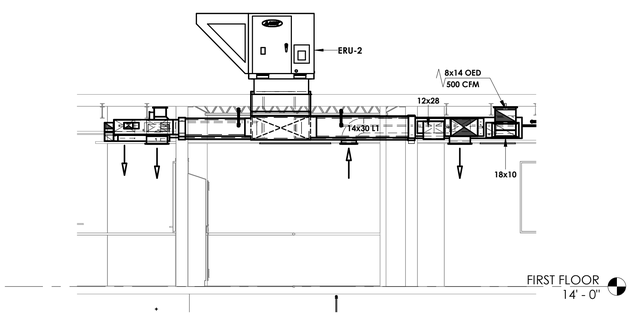
Checked By
JJM

Drawing Title
ROOF DEMOLITION PLAN - AREA D

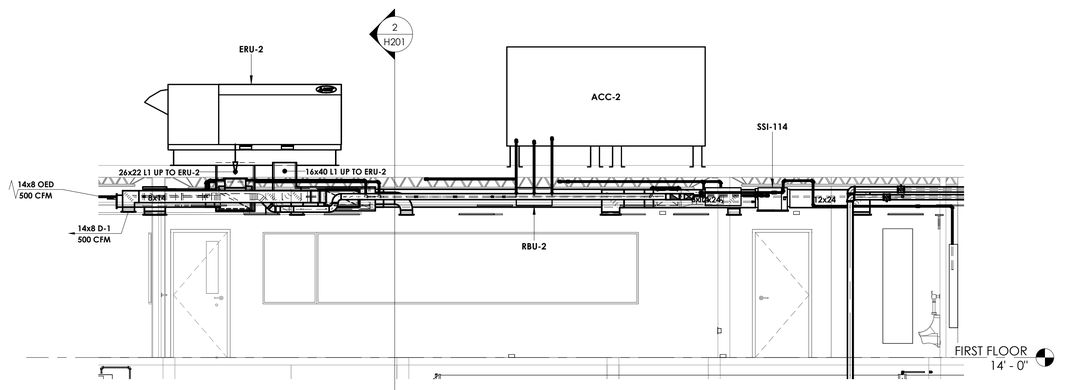
Drawing Number
TZHS
H113



1 H201 **FIRST FLOOR - HVAC DUCTWORK PLAN - AREA B**
1/8" = 1'-0"



2 H201 **LATERAL SECTION**
1/4" = 1'-0"

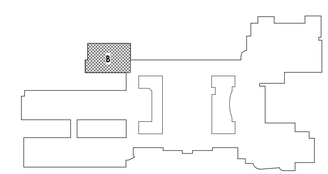


3 H201 **HORIZONTAL SECTION**
1/4" = 1'-0"

KEY NOTES

1. MOUNT SPLIT UNIT IN ACT CEILING GRID. COORDINATE WITH ARCHITECURAL, STRUCTURAL, AND LIGHTING.
2. SUPPLY DUCTWORK TO BE ROUTED IN HALLWAY CEILING. COORDINATE WITH EXISTING UTILITIES AND REFRIGERANT PIPING.
3. RETURN DUCTWORK TO BE ROUTED IN HALLWAY CEILING. COORDINATE WITH EXISTING UTILITIES AND REFRIGERANT PIPING.
4. ALL FIRE/SMOKE DAMPERS ARE 120V.

KEY PLAN:



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NY ENGINEERING FIRM CERTIFICATE #0021419

SOUTH ORANGETOWN Central School District
Capital Improvements Bond
Essential Infrastructure for Student Health, Safety and Success

PROJECT INFORMATION

Project Number
14457.20

Client Name
SOUTH ORANGETOWN CENTRAL SCHOOL DISTRICT

Project Name
PHASE 2: 2022 BOND

TAPPAN ZEE HIGH SCHOOL

Building Address
160 VAN WYCK RD., BLAUVELT, NY 10913

SED # 50-03-01-06-0-006-033

Registration Expiration Dates
Lauren Tonio 09/30/26
Anthony Marchetti 05/31/27
Dave Hart 02/28/25
Jennifer Wengender 06/30/27

PROJECT ISSUE & REVISION SCHEDULE

#	Date	Description

PROFESSIONAL STAMPS

NEW YORK STATE EDUCATION STATEMENT
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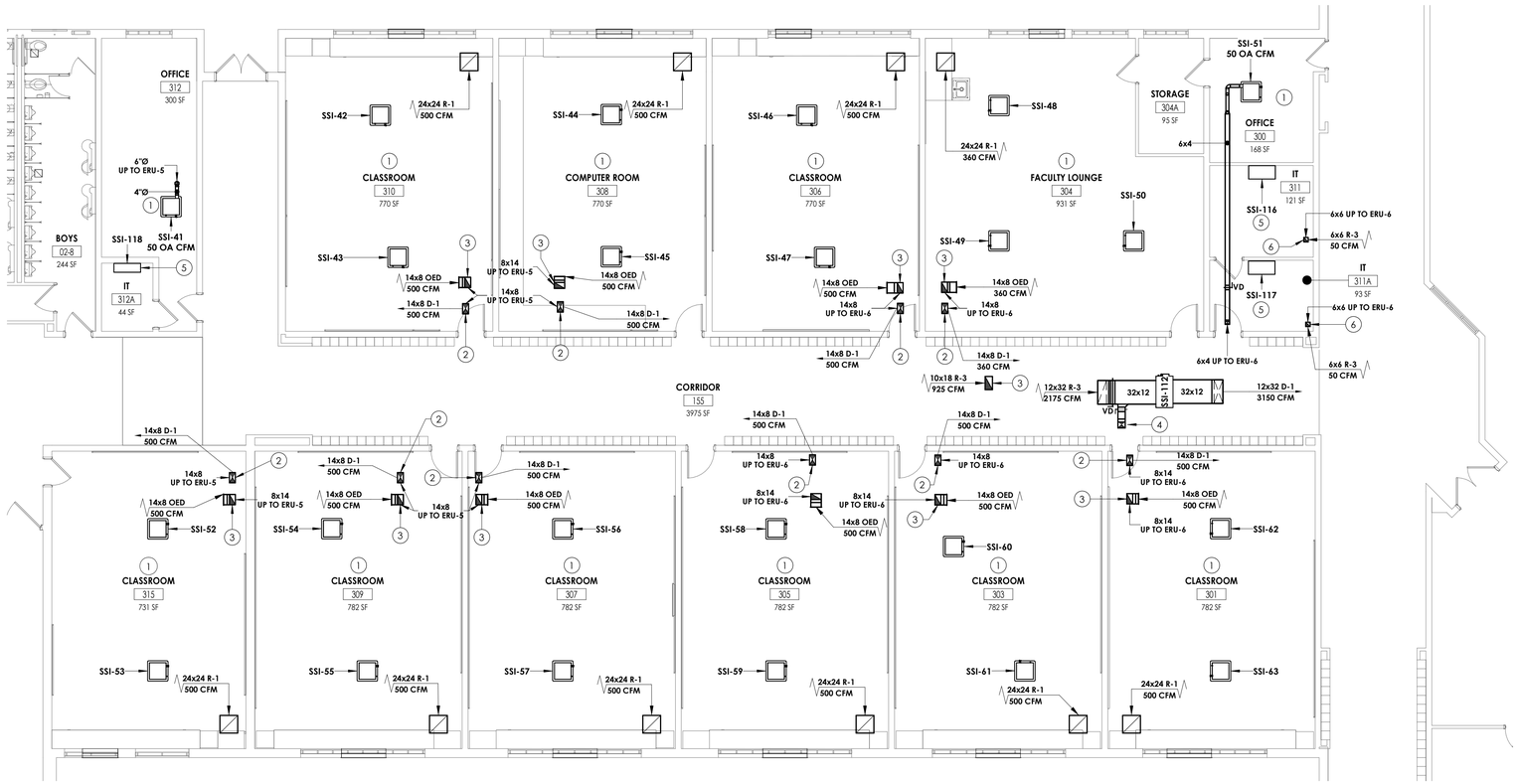
SHEET INFORMATION

Issued: 10/25/2024
Scale: As indicated
Project Status: BID DOCUMENTS
Drawn By: KCM
Checked By: JJM
Drawing Title: FIRST FLOOR DUCTWORK PLAN - AREA B

Drawing Number
TZHS
H201



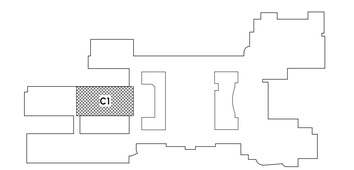
1 / H202 **FIRST FLOOR - HVAC DUCTWORK PLAN - AREA C1**

1/8" = 1'-0"

KEY NOTES

1. MOUNT SPLIT UNIT IN ACT CEILING GRID. REMOVE BRACING AS NEEDED FOR INSTALLATION. PROVIDE NEW BRACING IN NEW LOCATION IF EXISTING BRACING IS REMOVED. COORDINATE WITH ARCHITECTURAL, STRUCTURAL, AND LIGHTING.
2. SUPPLY DUCTWORK DOWN FROM ROOF TO SUPPLY GRILLE IN CEILING. COORDINATE WITH STRUCTURAL.
3. RETURN/RELIEF DUCTWORK FROM OPEN DUCT ABOVE CEILING UP TO ROOF DUCTWORK. COORDINATE WITH STRUCTURAL.
4. SUPPLY DUCTWORK DOWN FROM ROOF TO EQUIPMENT AS SHOWN.
5. MOUNT SPLIT UNIT HIGH ON WALL. COORDINATE WITH ARCHITECURAL, STRUCTURAL, AND LIGHTING.
6. RETURN/RELIEF DUCTWORK FROM CEILING MOUNTED GRILLE WITH DUCTWORK ROUTED UP TO ROOF DUCTWORK. COORDINATE WITH STRUCTURAL.

KEY PLAN:



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SOUTH ORANGETOWN Central School District
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PROJECT INFORMATION

Project Number
14457.20

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Project Name
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SHEET INFORMATION

Issued
10/25/2024

Scale
1/8" = 1'-0"

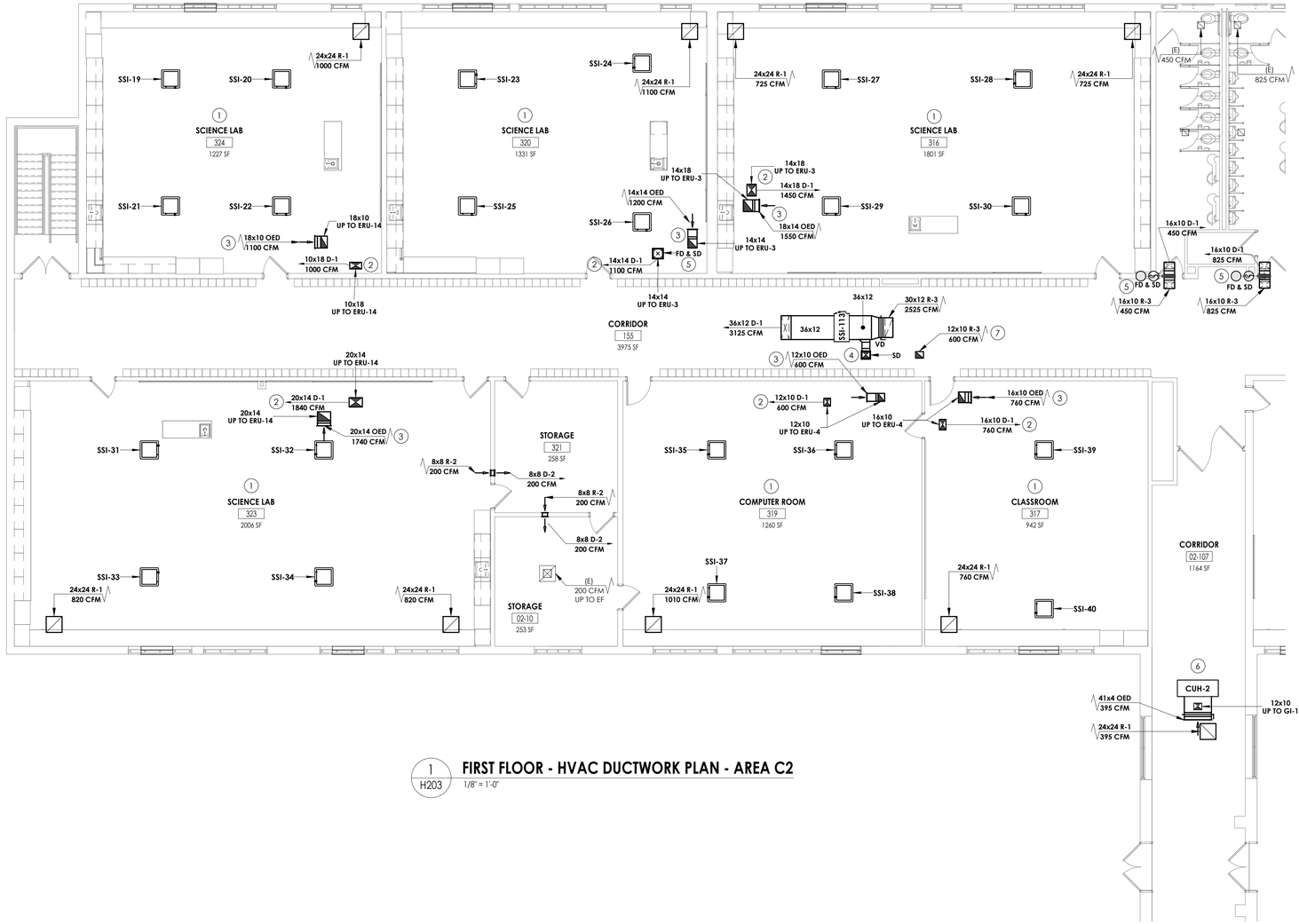
Project Status
BID DOCUMENTS

Drawn By
KCM

Checked By
JJM

Drawing Title
FIRST FLOOR DUCTWORK PLAN - AREA C1

Drawing Number
TZHS
H202



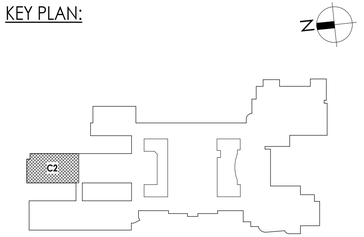
1 H203 **FIRST FLOOR - HVAC DUCTWORK PLAN - AREA C2**

1/8" = 1'-0"

KEY NOTES

1. MOUNT SPLIT UNIT IN JOIST SPACE. REMOVE BRACING AS NEEDED FOR INSTALLATION. PROVIDE NEW BRACING IN NEW LOCATION IF EXISTING BRACING IS REMOVED. COORDINATE WITH ARCHITECURAL, STRUCTURAL, AND LIGHTING.
2. SUPPLY DUCTWORK DOWN FROM ROOF TO SUPPLY GRILLE IN CEILING. COORDINATE WITH STRUCTURAL.
3. RETURN/RELIEF DUCTWORK FROM OPEN DUCT ABOVE CEILING UP TO ROOF DUCTWORK. COORDINATE WITH STRUCTURAL.
4. SUPPLY DUCTWORK DOWN FROM ROOF TO EQUIPMENT AS SHOWN.
5. ALL FIRE SMOKE DAMPERS ARE 120V.
6. INSTALL CABINET UNIT HEATER IN ACT CEILING GRID AND COORDINATE WITH ARCHITECTURAL, STRUCTURAL, AND LIGHTING. ROUTE DUCTWORK UP TO GRAVITY INTAKE ON THE ROOF.
7. RETURN/RELIEF DUCTWORK FROM CEILING MOUNTED GRILLE WITH DUCTWORK ROUTED UP TO ROOF DUCTWORK. COORDINATE WITH STRUCTURAL.

KEY PLAN:



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SOUTH ORANGETOWN Central School District
Capital Improvements Bond
Essential Infrastructure for Student Health, Safety and Success

PROJECT INFORMATION

Project Number
14457.20

Client Name
SOUTH ORANGETOWN CENTRAL SCHOOL DISTRICT

Project Name
PHASE 2: 2022 BOND

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SHEET INFORMATION

Issued
10/25/2024

Scale
1/8" = 1'-0"

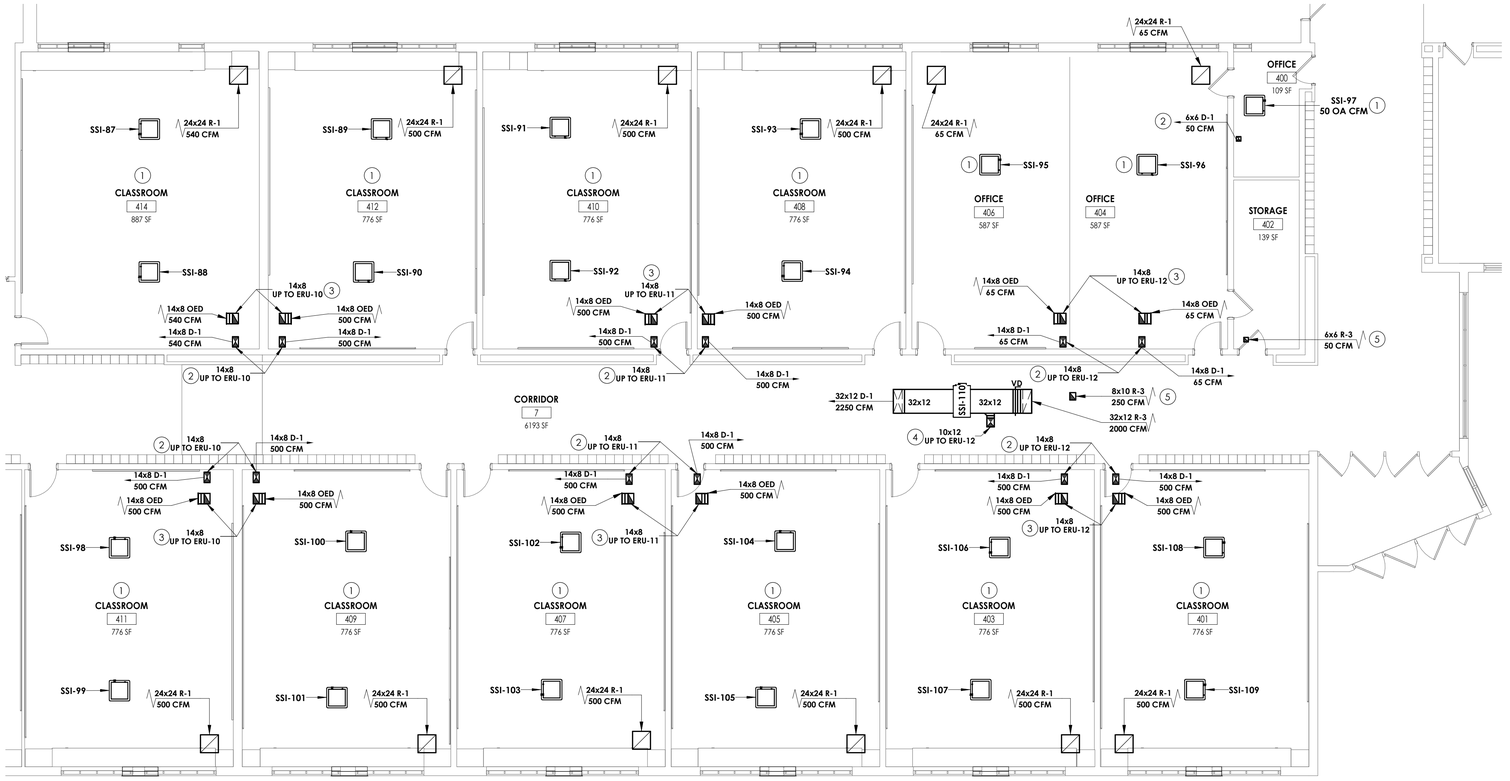
Project Status
BID DOCUMENTS

Drawn By
KCM

Checked By
JJM

Drawing Title
FIRST FLOOR DUCTWORK PLAN - AREA C2

Drawing Number
TZHS
H203



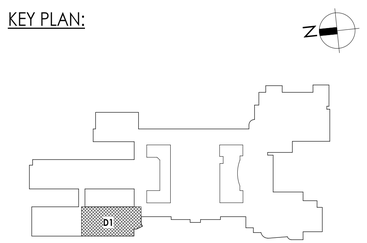
1 H204 **FIRST FLOOR - HVAC DUCTWORK PLAN - AREA D1**

1/8" = 1'-0"

KEY NOTES

1. MOUNT SPLIT UNIT IN JOIST SPACE. REMOVE BRACING AS NEEDED FOR INSTALLATION. PROVIDE NEW BRACING IN NEW LOCATION IF EXISTING BRACING IS REMOVED. COORDINATE WITH ARCHITECURAL, STRUCTURAL, AND LIGHTING.
2. SUPPLY DUCTWORK DOWN FROM ROOF TO SUPPLY GRILLE IN CEILING. COORDINATE WITH STRUCTURAL.
3. RETURN/RELIEF DUCTWORK FROM OPEN DUCT ABOVE CEILING UP TO ROOF DUCTWORK. COORDINATE WITH STRUCTURAL.
4. SUPPLY DUCTWORK DOWN FROM ROOF TO EQUIPMENT AS SHOWN.
5. RETURN/RELIEF DUCTWORK FROM CEILING MOUNTED GRILLE WITH DUCTWORK ROUTED UP TO ROOF DUCTWORK. COORDINATE WITH STRUCTURAL.

KEY PLAN:



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SOUTH ORANGETOWN Central School District

Capital Improvements Bond

Essential Infrastructure for Student Health, Safety and Success

PROJECT INFORMATION

Project Number
14457.20

Client Name
SOUTH ORANGETOWN CENTRAL SCHOOL DISTRICT

Project Name
PHASE 2: 2022 BOND

TAPPAN ZEE HIGH SCHOOL

Building Address
160 VAN WYCK RD., BLAUVELT, NY 10913

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Jennifer Wengender 06/30/27

PROJECT ISSUE & REVISION SCHEDULE

#	Date	Description

PROFESSIONAL STAMPS

SHEET INFORMATION

Issued
10/25/2024

Scale
1/8" = 1'-0"

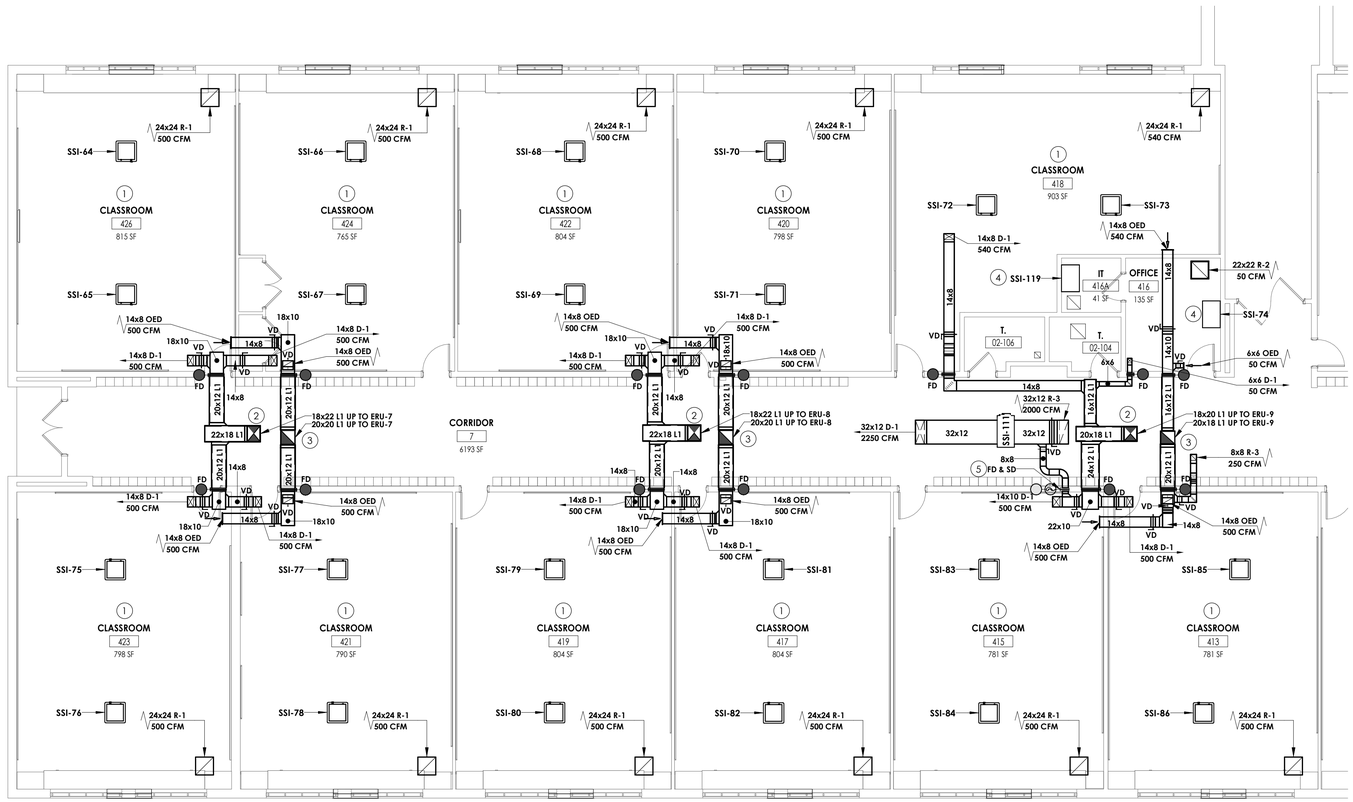
Project Status
BID DOCUMENTS

Drawn By
KCM

Checked By
JJM

Drawing Title
FIRST FLOOR DUCTWORK PLAN - AREA D1

Drawing Number
TZHS
H204



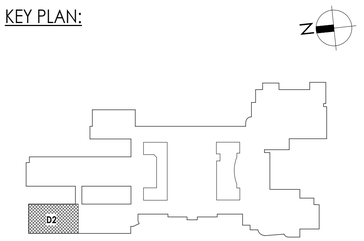
1 H205 **FIRST FLOOR - HVAC DUCTWORK PLAN - AREA D2**

1/8" = 1'-0"

KEY NOTES

1. MOUNT SPLIT UNIT IN JOIST SPACE. REMOVE BRACING AS NEEDED FOR INSTALLATION. PROVIDE NEW BRACING IN NEW LOCATION IF EXISTING BRACING IS REMOVED. COORDINATE WITH ARCHITECURAL, STRUCTURAL, AND LIGHTING.
2. SUPPLY DUCTWORK TO BE ROUTED IN HALLWAY CEILING. COORDINATE WITH EXISTING UTILITIES AND REFRIGERANT PIPING.
3. RETURN DUCTWORK TO BE ROUTED IN HALLWAY CEILING. COORDINATE WITH EXISTING UTILITIES AND REFRIGERANT PIPING.
4. MOUNT SPLIT UNIT ON WALL BELOW ACT CEILING GRID. COORDINATE WITH ARCHITECURAL, STRUCTURAL, AND LIGHTING.
5. ALL FIRE/SMOKE DAMPERS ARE 120V.

KEY PLAN:



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SOUTH ORANGETOWN Central School District
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PROJECT INFORMATION

Project Number
14457.20

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SOUTH ORANGETOWN CENTRAL SCHOOL DISTRICT

Project Name
PHASE 2: 2022 BOND

TAPPAN ZEE HIGH SCHOOL

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160 VAN WYCK RD., BLAUVELT, NY 10913

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Dave Hart 02/28/25
Jennifer Wengender 06/30/27

PROJECT ISSUE & REVISION SCHEDULE

#	Date	Description

PROFESSIONAL STAMPS

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SHEET INFORMATION

Issued: 10/25/2024
Scale: 1/8" = 1'-0"
Project Status: BID DOCUMENTS
Drawn By: KCM
Checked By: JJM
Drawing Title: FIRST FLOOR DUCTWORK PLAN - AREA D2

Drawing Number
TZHS H205

GENERAL NOTES

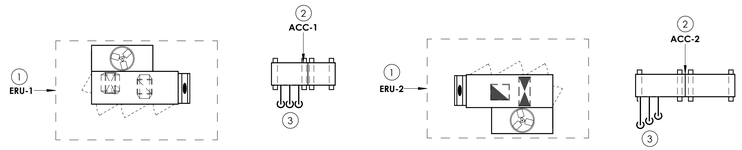
1. MECHANICAL CONTRACTOR SHALL PROVIDE ALL ANCHORS/FASTENERS/BRACKETS INDICATED BY SPECIFICATION SECTION 230550.

KEY NOTES

(1) MOUNT ENERGY RECOVERY UNIT ON 14" CURB WITH VIBRATION INSULATION, SPILL CONDENSATE TO ROOF. PREPARE FOR CONNECTION TO CONTROLS.

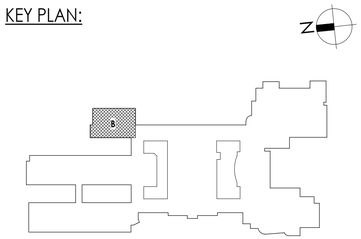
(2) MOUNT CONDENSING UNIT TO 14" EQUIPMENT RAILS. VIBRATION INSULATION AND PIPE PORTAL. REFERENCE WIND RESTRAINT FOR HVAC SYSTEMS IN SPEC SECTION 230550.

(3) ROUTE NEW RS/RL LINES DOWN THROUGH ROOF. COORDINATE WITH EXISTING ROOFING AND STRUCTURE. INSTALL PER MANUFACTURE'S INSTRUCTIONS.



1 / H211 **ROOF - HVAC DUCTWORK PLAN - AREA B**
1/8" = 1'-0"

KEY PLAN:



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NY ENGINEERING FIRM CERTIFICATE #0021419

SOUTH ORANGETOWN Central School District
Capital Improvements Bond
Essential Infrastructure for Student Health, Safety and Success

PROJECT INFORMATION

Project Number
14457.20

Client Name
SOUTH ORANGETOWN CENTRAL SCHOOL DISTRICT

Project Name
PHASE 2: 2022 BOND

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SHEET INFORMATION

Issued
10/25/2024

Scale
1/8" = 1'-0"

Project Status
BID DOCUMENTS

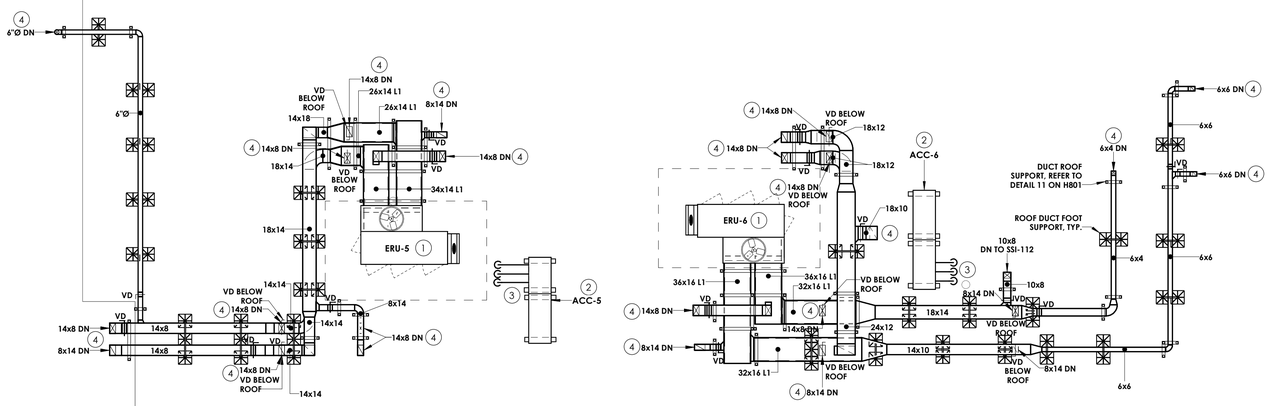
Drawn By
KCM

Checked By
JJM

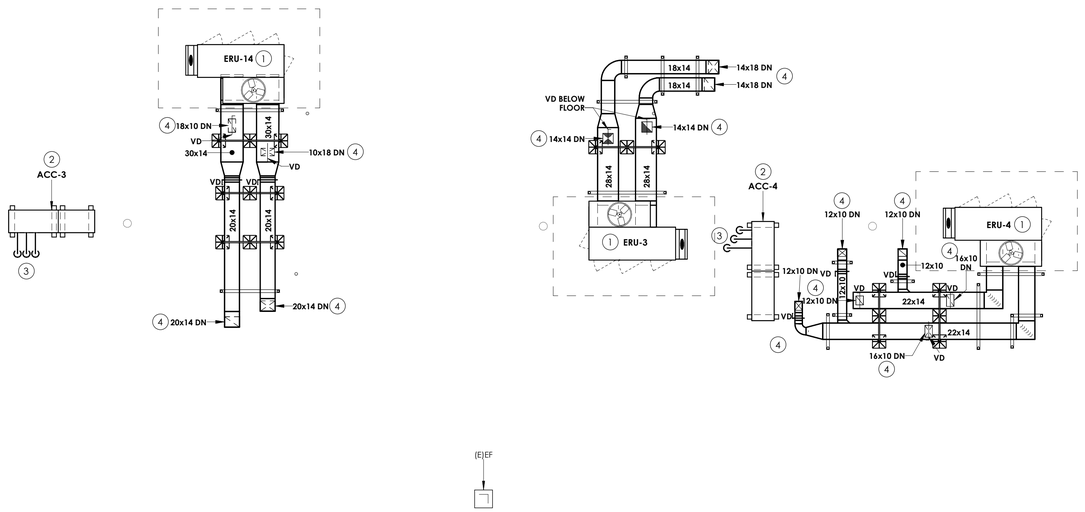
Drawing Title
ROOF DUCTWORK AND PIPING PLANS - AREA B

Drawing Number
TZHS
H211

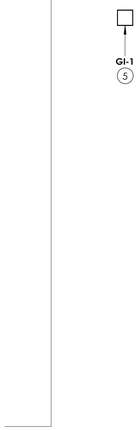
10/24/2024 12:27:13 P.M. <project location>\REVIT PROJECT FILES ON BIM 360



1 H212 **ROOF - HVAC DUCTWORK PLAN - AREA C1**
1/8" = 1'-0"



2 H212 **ROOF - HVAC DUCTWORK PLAN - AREA C2**
1/8" = 1'-0"



3 H212 **ROOF - HVAC DUCTWORK PLAN - AREA C-D CORRIDOR**
1/8" = 1'-0"

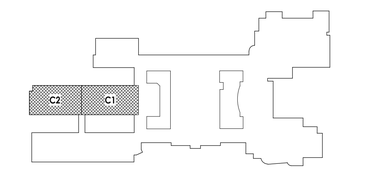
GENERAL NOTES

1. MECHANICAL CONTRACTOR SHALL PROVIDE ALL ANCHORS/FASTENERS/BRACKETS INDICATED BY SPECIFICATION SECTION 230550.

KEY NOTES

1. MOUNT ENERGY RECOVERY UNIT ON A HORIZONTAL DISCHARGE CURB AT LEAST 24" HIGH. PROVIDE SUPPORTS FOR ALL ROOF MOUNTED DUCTWORK. SPILL CONDENSATE TO ROOF. PREPARE FOR CONNECTION TO CONTROLS.
2. MOUNT CONDENSING UNIT TO 14" EQUIPMENT RAILS. VIBRATION INSULATION AND PIPE PORTAL. REFERENCE WIND RESTRAINT FOR HVAC SYSTEMS IN SPEC SECTION 230550.
3. ROUTE NEW RS/RL LINES DOWN THROUGH ROOF. COORDINATE WITH EXISTING ROOFING AND STRUCTURE. INSTALL PER MANUFACTURE'S INSTRUCTIONS.
4. DUCTWORK DOWN TO SPACE BELOW.
5. MOUNT GRAVITY INTAKE FAN ON 14" CURB WITH VIBRATION INSULATION. ROUTE DUCTWORK TO CUH-2 RETURN DUCT.

KEY PLAN:



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NY ENGINEERING FIRM CERTIFICATE #0021419

SOUTH ORANGETOWN Central School District
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Project Number
14457.20

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Project Name
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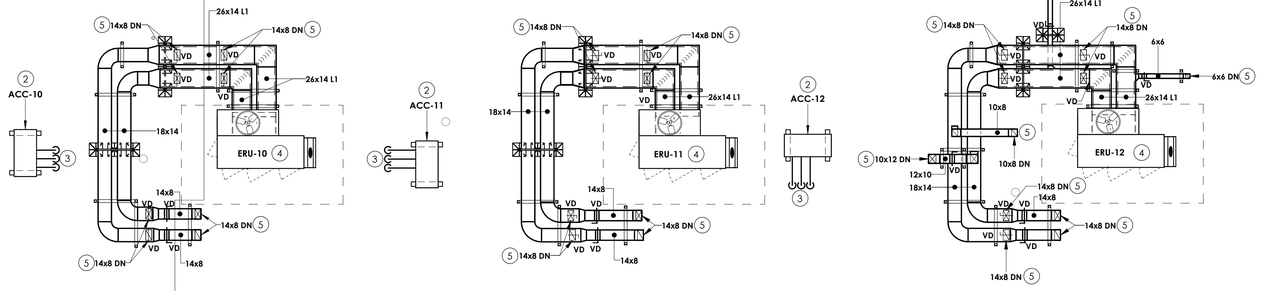
SHEET INFORMATION

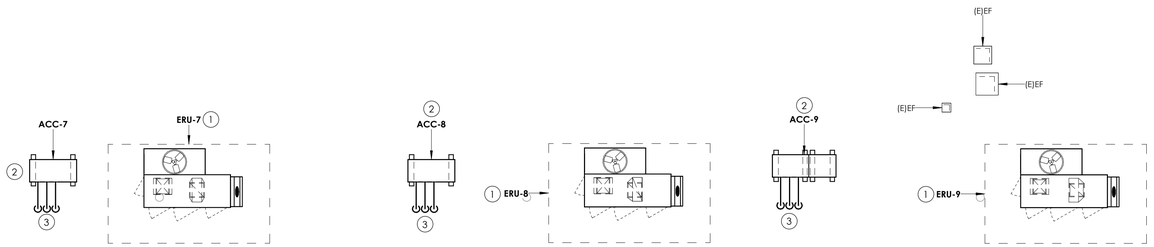
Issued: 10/25/2024
Scale: 1/8" = 1'-0"
Project Status: BID DOCUMENTS
Drawn By: KCM
Checked By: JJM
Drawing Title: ROOF DUCTWORK AND PIPING PLANS - AREAS C1 AND C2

Drawing Number
TZHS
H212

10/24/2024 12:27:30 PM <project location>\REVIT PROJECT FILES ON BIM 360



1 H213 **ROOF - HVAC DUCTWORK PLAN - AREA D1**
1/8" = 1'-0"



2 H213 **ROOF - HVAC DUCTWORK PLAN - AREA D2**
1/8" = 1'-0"

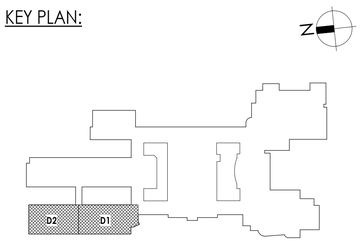
GENERAL NOTES

1. MECHANICAL CONTRACTOR SHALL PROVIDE ALL ANCHORS/FASTENERS/BRACKETS INDICATED BY SPECIFICATION SECTION 230550.

KEY NOTES

1. MOUNT ENERGY RECOVERY UNIT ON 14" CURB WITH VIBRATION INSULATION, SPILL CONDENSATE TO ROOF. PREPARE FOR CONNECTION TO CONTROLS.
2. MOUNT CONDENSING UNIT TO 14" EQUIPMENT RAILS. VIBRATION INSULATION AND PIPE PORTAL. REFERENCE WIND RESTRAINT FOR HVAC SYSTEMS IN SPEC SECTION 230550.
3. ROUTE NEW RS/RL LINES DOWN THROUGH ROOF. COORDINATE WITH EXISTING ROOFING AND STRUCTURE. INSTALL PER MANUFACTURE'S INSTRUCTIONS.
4. MOUNT ENERGY RECOVERY UNIT ON A HORIZONTAL DISCHARGE CURB AT LEAST 24" HIGH. PROVIDE SUPPORTS FOR ALL ROOF MOUNTED DUCTWORK. SPILL CONDENSATE TO ROOF. PREPARE FOR CONNECTION TO CONTROLS.
5. DUCTWORK DOWN TO SPACE BELOW.

KEY PLAN:



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NY ENGINEERING FIRM CERTIFICATE #0021419

SOUTH ORANGETOWN Central School District
Capital Improvements Bond
Essential Infrastructure for Student Health, Safety and Success

PROJECT INFORMATION

Project Number
14457.20

Client Name
SOUTH ORANGETOWN CENTRAL SCHOOL DISTRICT

Project Name
PHASE 2: 2022 BOND

TAPPAN ZEE HIGH SCHOOL

Building Address
160 VAN WYCK RD., BLAUVELT, NY 10913

SED # 50-03-01-06-0-006-033

Registration Expiration Dates
Lauren Tonio 09/30/26
Anthony Marchetti 05/31/27
Dave Hart 02/28/25
Jennifer Wengender 06/30/27

PROJECT ISSUE & REVISION SCHEDULE

#	Date	Description

PROFESSIONAL STAMPS

SHEET INFORMATION

Issued
10/25/2024

Scale
1/8" = 1'-0"

Project Status
BID DOCUMENTS

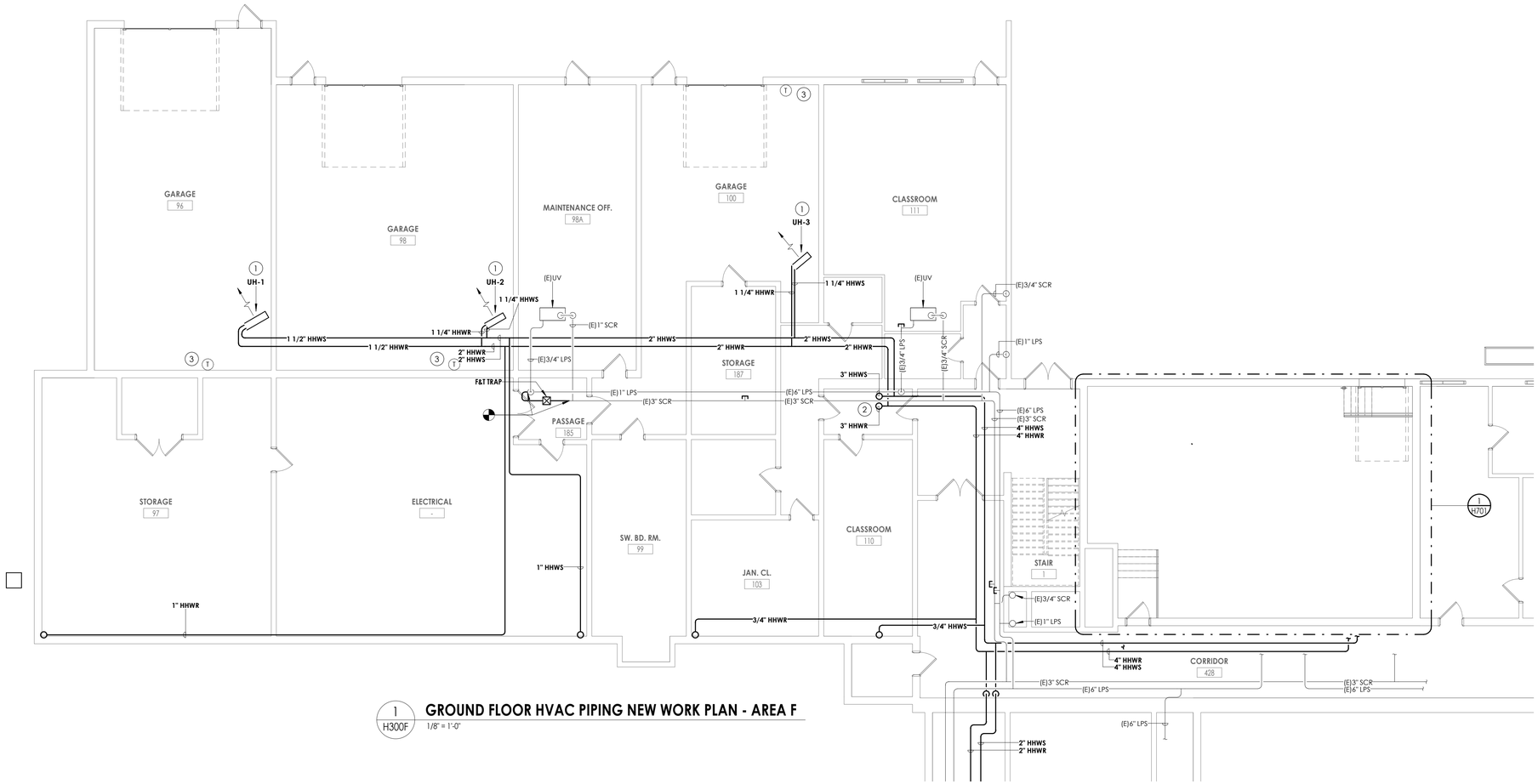
Drawn By
KCM

Checked By
JJM

Drawing Title
ROOF DUCTWORK AND PIPING PLANS - AREAS D1 AND D2

Drawing Number
TZHS
H213

10/24/2024 12:27:44 P.M. <project location>\REVIT PROJECT FILES ON BIM 360

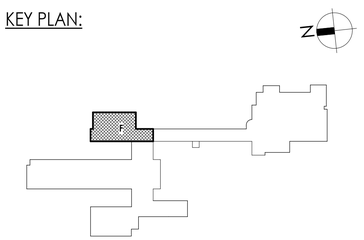


1 H300F **GROUND FLOOR HVAC PIPING NEW WORK PLAN - AREA F**
1/8" = 1'-0"

KEY NOTES

1. PROVIDE UNIT HEATER. MOUNT AS HIGH AS POSSIBLE AND INSTALL PER MANUFACTURERS RECOMMENDATIONS. COORDINATE SUPPORTS WITH STRUCTURE.
2. ROUTE PIPING UP TO JANITORS CLOSET ON UPPER LEVEL.
3. PROVIDE TEMPERATURE SENSOR AND CONNECT TO UNIT HEATER.

KEY PLAN:



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PROFESSIONAL STAMPS

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SHEET INFORMATION

Issued
10/25/2024

Scale
1/8" = 1'-0"

Project Status
BID DOCUMENTS

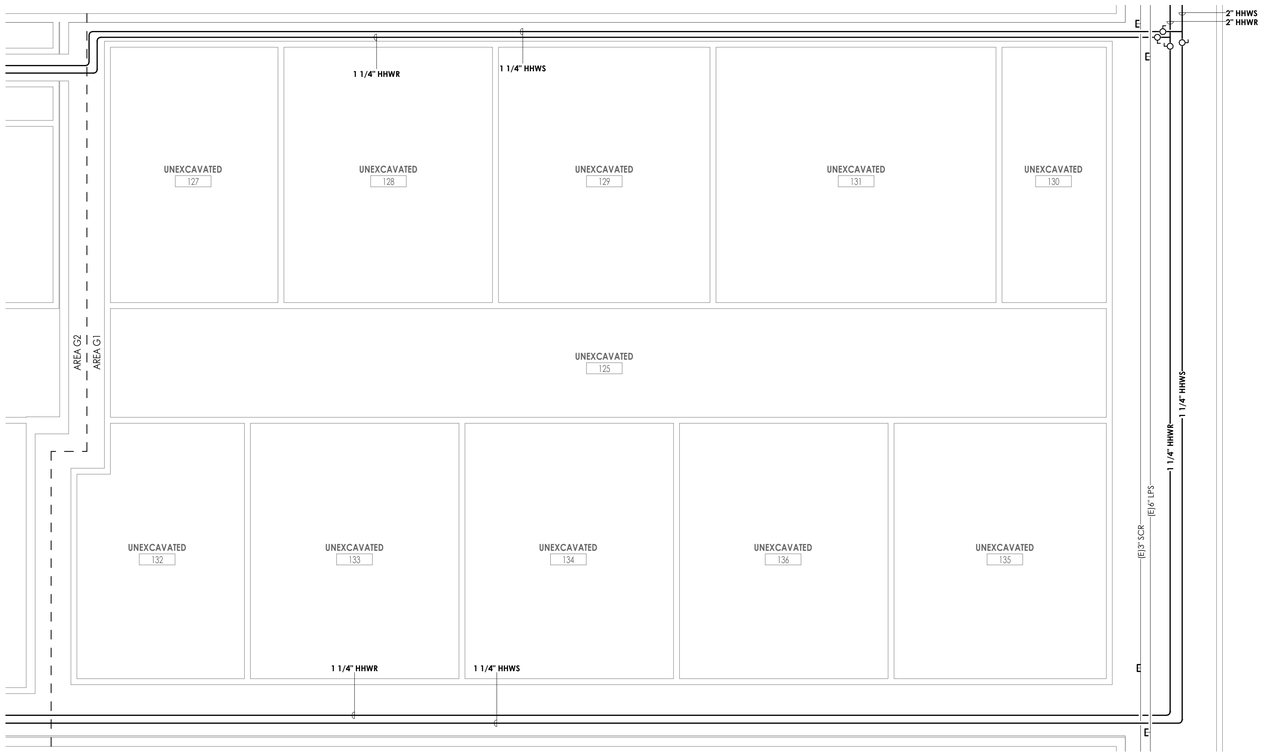
Drawn By
KCM

Checked By
JJM

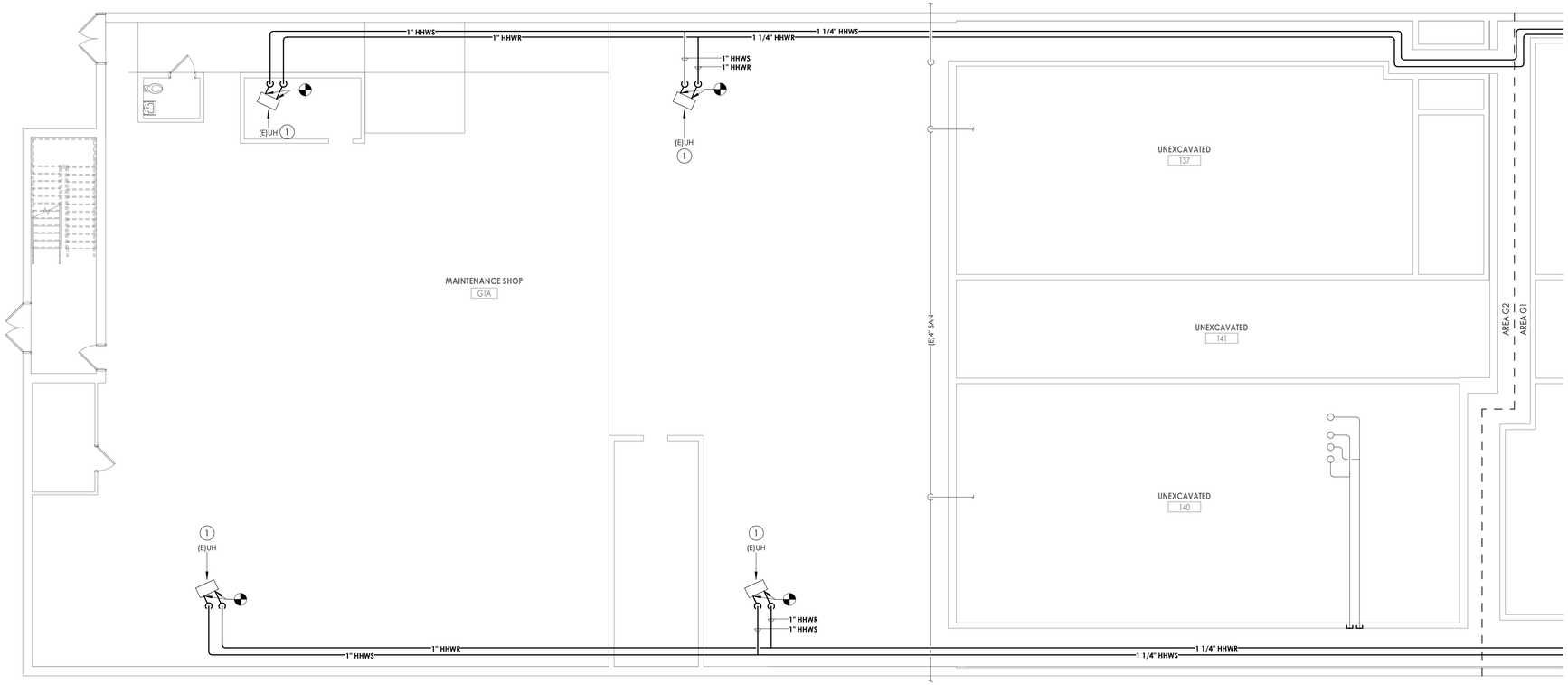
Drawing Title
GROUND FLOOR HVAC PIPING NEW WORK PLAN - AREA F

Drawing Number
TZHS
H300F

10/24/2024 12:27:55 PM <project location>\REVIT PROJECT FILES ON BIM 360



1 H300G **CRAWL SPACE HVAC PIPING NEW WORK PLAN - AREA G1**
1/8" = 1'-0"

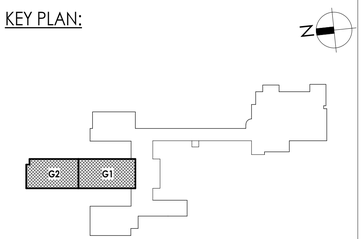


2 H300G **GROUND FLOOR HVAC PIPING NEW WORK PLAN - AREA G2**
1/8" = 1'-0"

KEY NOTES

1. CONNECT PIPING TO EXISTING UNIT HEATER. ROUTE PIPING THROUGH CRAWL SPACE BACK TO BOILER ROOM.

KEY PLAN:



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SOUTH ORANGETOWN Central School District
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PROJECT INFORMATION

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Project Name
PHASE 2: 2022 BOND

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#	Date	Description

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SHEET INFORMATION

Issued
10/25/2024

Scale
1/8" = 1'-0"

Project Status
BID DOCUMENTS

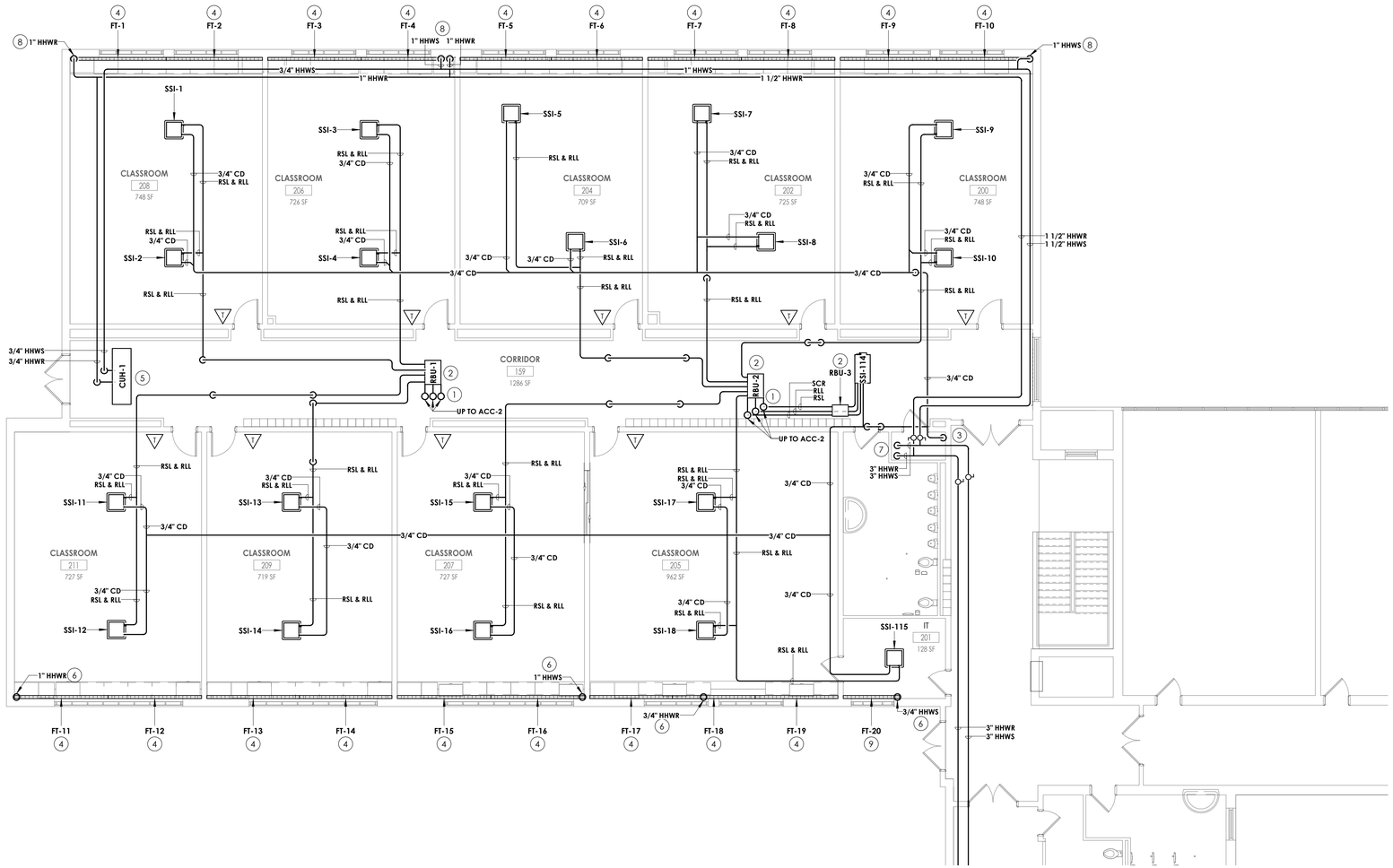
Drawn By
KCM

Checked By
JJM

Drawing Title
GROUND FLOOR HVAC PIPING NEW WORK PLAN - AREA G

Drawing Number
TZHS
H300G

10/24/2024 12:28:07 P.M. <project location>\REVIT PROJECT FILES ON BIM 360



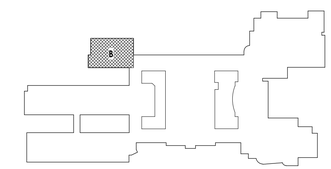
1 H301 **FIRST FLOOR - HVAC PIPING PLAN - AREA B**

1/8" = 1'-0"

KEY NOTES

1. RSL/RLL UP TO CONDENSING UNIT ON ROOF. REFER TO H600 FOR PIPE SIZES.
2. PROVIDE BRANCH BOX. MOUNT UNIT AS HIGH AS POSSIBLE. COORDINATE PIPE ROUTING WITH DUCTWORK AND EXISTING STRUCTURE.
3. ROUTE CONDENSATE TO EXISTING SINK. PROVIDE WITH AN INDIRECT CONNECTION.
4. PROVIDE FIN TUBE WITH DRAFTSTOP WHERE INDICATED.
5. INSTALL CABINET UNIT HEATER IN ACT CEILING GRID AND COORDINATE WITH ARCHITECTURAL, STRUCTURAL, AND LIGHTING. ROUTE PIPING ABOVE CEILING.
6. FIN TUBE PIPING TO BE ROUTED TO THE LOWER LEVEL.
7. MOUNT PIPING TO WALL AND ROUTE DOWN TO LOWER LEVEL. FIELD VERIFY EXACT DROP LOCATION.
8. FIN TUBE PIPING TO BE ROUTED ABOVE THE CEILING. PROVIDE 20 GAUGE GALVANIZED STEEL ENCLOSURE PAINTED TO MATCH THE WALL AROUND THE PIPING UP TO CEILING.
9. PROVIDE FIN TUBE WITH ENCLOSURE.

KEY PLAN:



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SOUTH ORANGETOWN Central School District
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PROJECT INFORMATION

Project Number
14457.20

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SOUTH ORANGETOWN CENTRAL SCHOOL DISTRICT

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PHASE 2: 2022 BOND

TAPPAN ZEE HIGH SCHOOL

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Jennifer Wengender 06/30/27

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#	Date	Description

PROFESSIONAL STAMPS

SHEET INFORMATION

Issued	Scale
10/25/2024	1/8" = 1'-0"

Project Status
BID DOCUMENTS

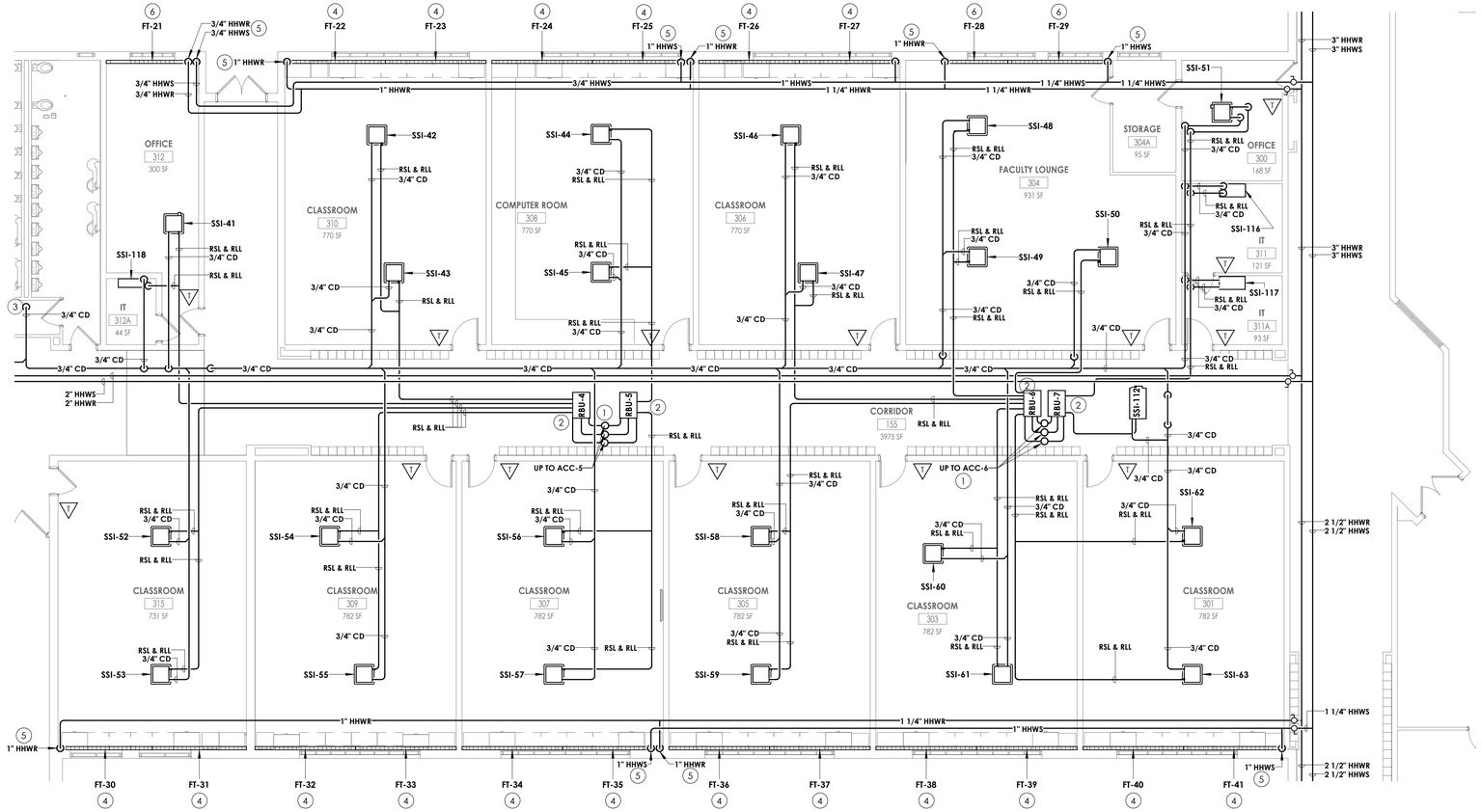
Drawn By	Checked By
KCM	JJM

Drawing Title
FIRST FLOOR PIPING PLAN - AREA B

Drawing Number
TZHS
H301

KEY NOTES

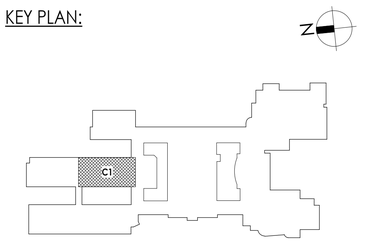
1. RSL/RLL UP TO CONDENSING UNIT ON ROOF. REFER TO H600 FOR PIPE SIZES.
2. PROVIDE BRANCH BOX. MOUNT UNIT AS HIGH AS POSSIBLE. COORDINATE PIPE ROUTING WITH DUCTWORK AND EXISTING STRUCTURE.
3. ROUTE CONDENSATE PIPING TO SANITARY. PROVIDE WITH AN INDIRECT CONNECTION.
4. PROVIDE FIN TUBE WITH DRAFT STOP WHERE INDICATED.
5. FIN TUBE TO BE ROUTE PIPING ABOVE THE CEILING. PROVIDE 20 GAUGE GALVANIZED STEEL ENCLOSURE PAINTED TO MATCH THE WALL AROUND THE PIPING UP TO CEILING.
6. PROVIDE FIN TUBE WITH ENCLOSURE PAINT TO MATCH THE WALL AROUND ENCLOSURE.



1 H302 **FIRST FLOOR - HVAC PIPING PLAN - AREA C1**

1/8" = 1'-0"

KEY PLAN:



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SOUTH ORANGETOWN Central School District
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SOUTH ORANGETOWN CENTRAL SCHOOL DISTRICT

Project Name
PHASE 2: 2022 BOND

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Jennifer Wengender 06/30/27

PROJECT ISSUE & REVISION SCHEDULE

#	Date	Description

PROFESSIONAL STAMPS

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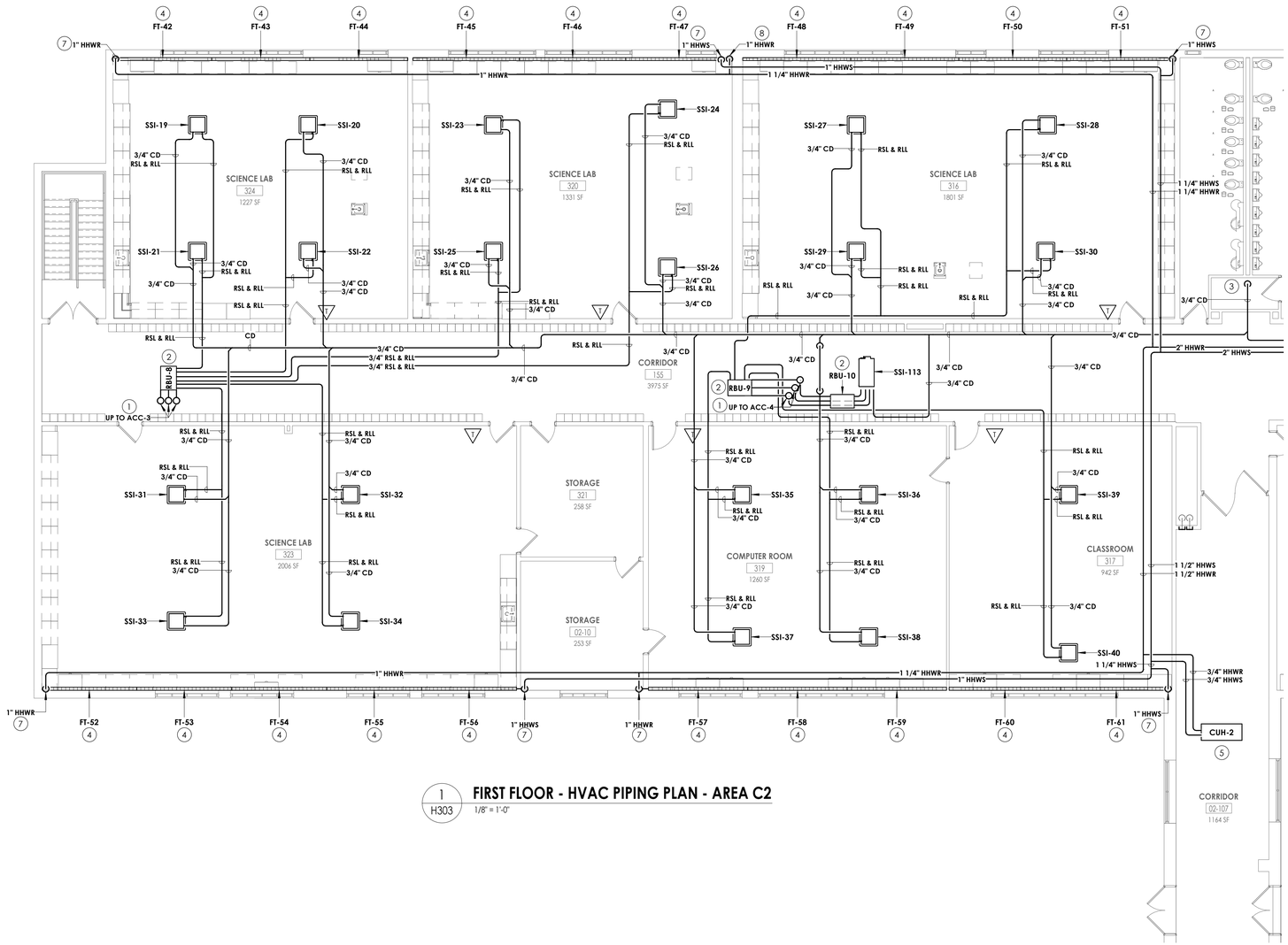
SHEET INFORMATION

Issued: 10/25/2024
Scale: 1/8" = 1'-0"
Project Status: BID DOCUMENTS
Drawn By: KCM
Checked By: JJM
Drawing Title: FIRST FLOOR PIPING PLAN - AREA C1

Drawing Number
TZHS
H302

10/24/2024 12:28:41 P.M. <project location>\REVIT PROJECT FILES ON BIM 360



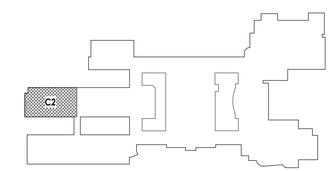
1 H303 **FIRST FLOOR - HVAC PIPING PLAN - AREA C2**

1/8" = 1'-0"

KEY NOTES

1. RSL/RLL UP TO CONDENSING UNIT ON ROOF. REFER TO H600 FOR PIPE SIZES.
2. PROVIDE BRANCH BOX. MOUNT UNIT AS HIGH AS POSSIBLE. COORDINATE PIPE ROUTING WITH DUCTWORK AND EXISTING STRUCTURE.
3. ROUTE CONDENSATE PIPING TO SANITARY. PROVIDE WITH AN INDIRECT CONNECTION.
4. PROVIDE FIN TUBE WITH DRAFTSTOP WHERE INDICATED.
5. INSTALL CABINET UNIT HEATER IN ACT CEILING GRID AND COORDINATE WITH ARCHITECTURAL, STRUCTURAL, AND LIGHTING. ROUTE PIPING ABOVE CEILING.
6. PROVIDE ENCLOSURE FOR FIN TUBE BETWEEN THE POINTS INDICATED. COORDINATE ENCLOSURE LENGTH WITH CASEWORK. ENCLOSURE PAINTED TO MATCH THE CASEWORK.
7. FIN TUBE PIPING TO BE ROUTED ABOVE THE CEILING. PROVIDE 20 GAUGE GALVANIZED STEEL ENCLOSURE PAINTED TO MATCH THE WALL AROUND THE PIPING UP TO CEILING.

KEY PLAN:



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SOUTH ORANGETOWN Central School District
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Essential Infrastructure for Student Health, Safety and Success

PROJECT INFORMATION

Project Number
14457.20

Client Name
SOUTH ORANGETOWN CENTRAL SCHOOL DISTRICT

Project Name
PHASE 2: 2022 BOND

TAPPAN ZEE HIGH SCHOOL

Building Address
160 VAN WYCK RD., BLAUVELT, NY 10913

SED # 50-03-01-06-0-006-033

Registration Expiration Dates
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Jennifer Wengender 06/30/27

PROJECT ISSUE & REVISION SCHEDULE

#	Date	Description

PROFESSIONAL STAMPS

SHEET INFORMATION

Issued	Scale
10/25/2024	1/8" = 1'-0"

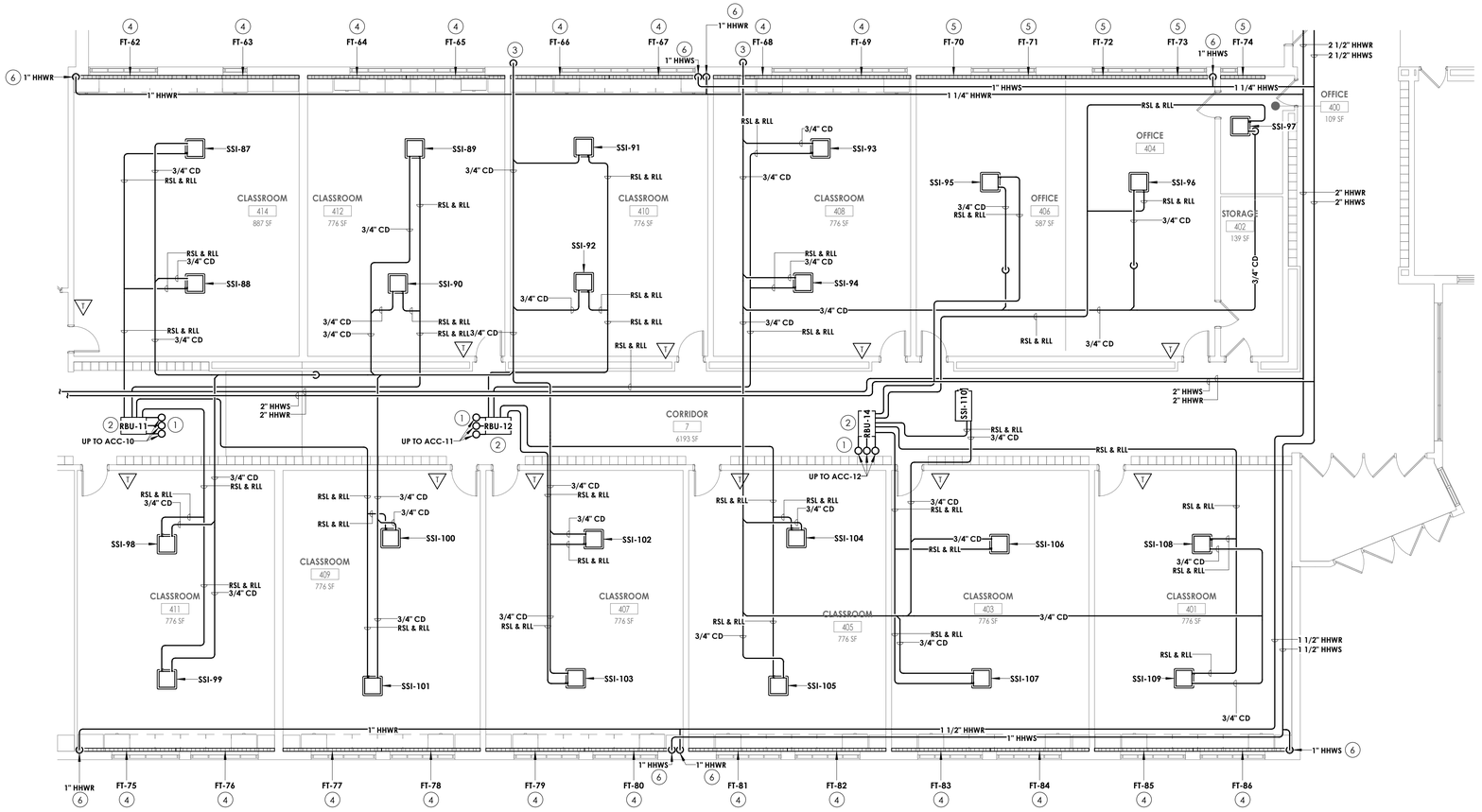
Project Status
BID DOCUMENTS

Drawn By	Checked By
KCM	JJM

Drawing Title
FIRST FLOOR PIPING PLAN - AREA C2

Drawing Number
TZHS
H303

10/24/2024 12:28:59 PM <project location>\REVIT PROJECT FILES ON BIM 360



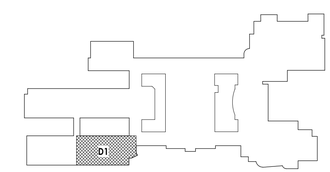
KEY NOTES

1. RSL/RLL UP TO CONDENSING UNIT ON ROOF. REFER TO H601 FOR PIPE SIZES
2. PROVIDE BRANCH BOX. MOUNT UNIT AS HIGH AS POSSIBLE. COORDINATE PIPE ROUTING WITH DUCTWORK AND EXISTING STRUCTURE.
3. ROUTE CONDENSATE PIPING TO EXTERIOR FOR DISCHARGE. PROVIDE WITH AN INDIRECT CONNECTION.
4. PROVIDE FIN TUBE WITH DRAFTSTOP WHERE INDICATED.
5. PROVIDE FIN TUBE WITH ENCLOSURE.
6. FIN TUBE PIPING TO BE ROUTED ABOVE THE CEILING. PROVIDE 20 GAUGE GALVANIZED STEEL ENCLOSURE PAINTED TO MATCH THE WALL AROUND THE PIPING UP TO CEILING.

1 / H304 **FIRST FLOOR - HVAC PIPING PLAN - AREA D1**

1/8" = 1'-0"

KEY PLAN:



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SOUTH ORANGETOWN Central School District
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PROJECT INFORMATION

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SOUTH ORANGETOWN CENTRAL SCHOOL DISTRICT

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SHEET INFORMATION

Issued: 10/25/2024
Scale: 1/8" = 1'-0"
Project Status: BID DOCUMENTS
Drawn By: KCM
Checked By: JJM
Drawing Title: FIRST FLOOR PIPING PLAN - AREA D1

Drawing Number
TZHS
H304

10/24/2024 12:29:15 PM <project location>\REVIT PROJECT FILES ON BIM 360

KEY NOTES

1. RSL/RLL UP TO CONDENSING UNIT ON ROOF. REFER TO H601 FOR PIPE SIZES
2. PROVIDE BRANCH BOX. MOUNT UNIT AS HIGH AS POSSIBLE. COORDINATE PIPE ROUTING WITH DUCTWORK AND EXISTING STRUCTURE.
3. ROUTE CONDENSATE PIPING TO EXTERIOR FOR DISCHARGE. PROVIDE WITH AN INDIRECT CONNECTION.
4. PROVIDE FIN TUBE WITH DRAFTSTOP WHERE INDICATED.
5. INSTALL CABINET UNIT HEATER IN ACT CEILING GRID AND COORDINATE WITH ARCHITECTURAL, STRUCTURAL, AND LIGHTING. ROUTE PIPING ABOVE CEILING.
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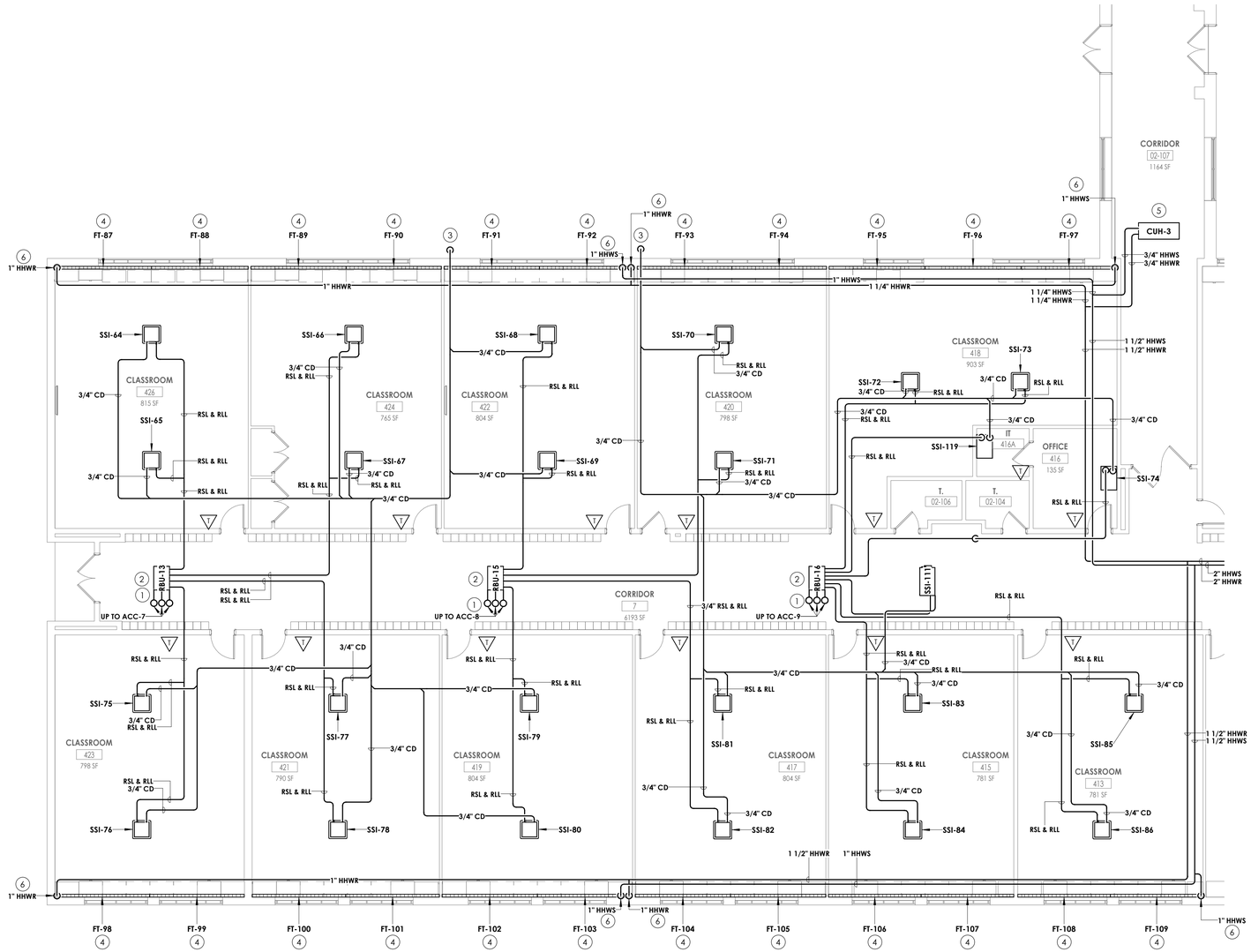
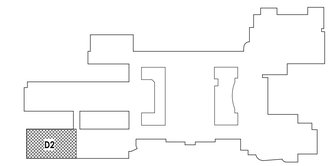


1 H305 **FIRST FLOOR - HVAC PIPING PLAN - AREA D2**

1/8" = 1'-0"

KEY PLAN:



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SOUTH ORANGETOWN Central School District

Capital Improvements Bond

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PROJECT INFORMATION

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SHEET INFORMATION

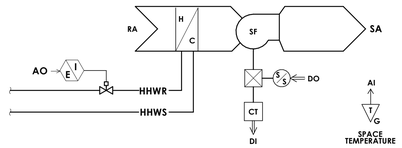
Issued	Scale
10/25/2024	1/8" = 1'-0"

Project Status
BID DOCUMENTS

Drawn By	Checked By
KCM	JJM

Drawing Title
FIRST FLOOR PIPING PLAN - AREA D2

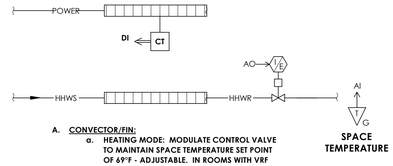
Drawing Number
TZHS
H305



A. HYDRONIC UNIT HEATERS:
1. MODULATE THE CONTROL VALVE AS NECESSARY TO MAINTAIN SPACE TEMPERATURE HEATING SET POINT.
2. ALARMS
   a. SPACE TEMPERATURE HIGH/LOW LIMITS.

1 H500 UNIT HEATER CONTROLS SCHEMATIC

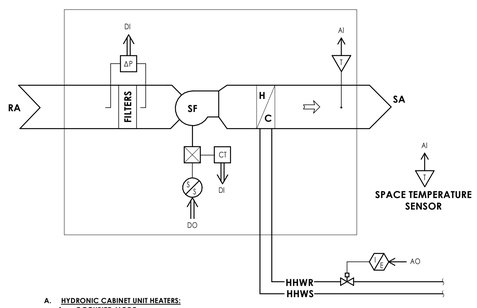
NOT TO SCALE



A. CONVECTOR/FIN:
   a. HEATING MODE: MODULATE CONTROL VALVE TO MAINTAIN SPACE TEMPERATURE SET POINT OF 69°F - ADJUSTABLE. IN ROOMS WITH VRF THE SETPOINT SHALL BE 2 DEG F BELOW VRF SETPOINT.
   b. FOR SPACES WITH VRF UTILIZE FIN FOR WARMUP.
   c. COOLING MODE: MODULATE CONTROL VALVE TO FULL CLOSED POSITION OR TURN OFF POWER.
   d. ALARMS:
      1) HIGH/LOW SPACE TEMPERATURE.

2 H500 CONVECTOR/FIN CONTROLS SCHEMATIC

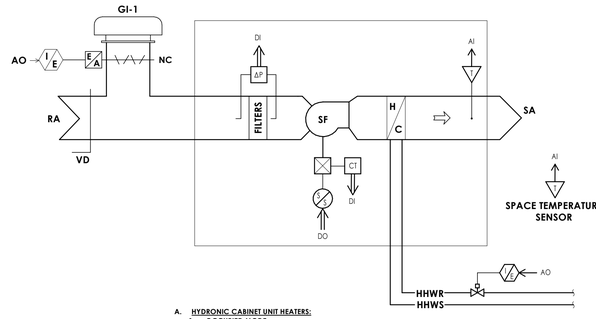
SCALE: NOT TO SCALE



A. HYDRONIC CABINET UNIT HEATERS:
1. OCCUPIED MODE:
   a. FAN SHALL BE ON AND THE CONTROL VALVE SHALL MODULATE TO MAINTAIN THE SPACE TEMPERATURE HEATING SET POINT 68°F (ADJ.).
2. UNOCCUPIED MODE:
   a. FAN SHALL BE ON AND THE CONTROL VALVE SHALL MODULATE TO MAINTAIN THE NIGHT SPACE TEMPERATURE HEATING SET POINT 65°F (ADJ.).
3. ALARMS
   a. SPACE TEMPERATURE HIGH/LOW LIMITS.
   b. DIRTY FILTER.
   c. FAN FAILURE.

3 H500 CABINET UNIT HEATER- 1 CONTROL SCHEMATIC

NOT TO SCALE



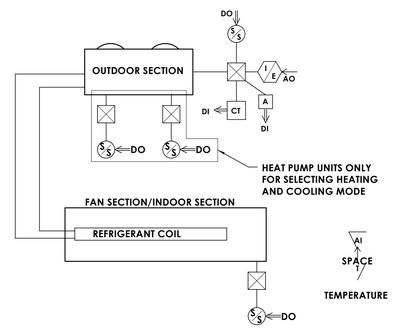
A. HYDRONIC CABINET UNIT HEATERS:
1. OCCUPIED MODE:
   a. FAN SHALL BE ON AND THE CONTROL VALVE SHALL MODULATE TO MAINTAIN THE SPACE TEMPERATURE HEATING SET POINT 68°F (ADJ.).
2. UNOCCUPIED MODE:
   a. FAN SHALL BE ON AND THE CONTROL VALVE SHALL MODULATE TO MAINTAIN THE NIGHT SPACE TEMPERATURE HEATING SET POINT 65°F (ADJ.).
3. ALARMS
   a. SPACE TEMPERATURE HIGH/LOW LIMITS.
   b. DIRTY FILTER.
   c. FAN FAILURE.

4 H500 CABINET UNIT HEATER- 2 & 3 CONTROL SCHEMATIC

NOT TO SCALE

A. SPLIT SYSTEM AIR CONDITIONING UNITS:
1. COOLING MODE
   a. ENABLE SPLIT SYSTEM
   b. MODULATE TO MAINTAIN SPACE TEMPERATURE SET POINT.
2. ALARMS
   a. EQUIPMENT FAILURE
   b. HIGH/LOW SPACE TEMP.
   c. HIGH WATER LEVEL IN DRAIN PAN

COORDINATE WITH VRF MANUFACTURER TO PROVIDE BMS CONTROL OF SPACE TEMPERATURE SET POINTS, OCCUPIED/UNOCCUPIED MODES, HEATING COOLING MODES AND LOAD DEMAND.



5 H500 SPLIT SYSTEMS - CONTROLS SCHEMATIC

NOT TO SCALE

GENERAL NOTES:

1. SEQUENCES OF OPERATION SPECIFIED HEREIN, WHICH INDICATE THE FUNCTIONAL INTENT OF HVAC SYSTEMS, SUBSYSTEMS, AND/OR COMPONENTS OPERATION, ARE GENERAL IN NATURE AND MAY NOT FULLY DEFINE EVERY ASPECT OF PROGRAMMING THAT MAY BE REQUIRED TO FULFILL THE DESIGN INTENT. CONTRACTOR SHALL PROVIDE ALL PROGRAMMING AND HARDWARE NECESSARY TO OBTAIN THE SEQUENCES/SYSTEM OPERATION INDICATED, RESULTING IN STABLE HVAC SYSTEM OPERATION IN ACCORDANCE WITH THE DESIGN INTENT. THE SYSTEM SHALL COMMUNICATE WITH THE EXISTING BMS.

1.1 HVAC CONTROL SEQUENCES :

A. GENERAL
1. ALL SET POINTS, CHANGEOVER POINTS AND RESET SCHEDULES SHALL BE USER ADJUSTABLE.
2. CONTROL ALGORITHMS SHALL UTILIZE TUNED PID LOOPS TO MAINTAIN SET POINTS AND MINIMUM/MAXIMUM LEAVING AIR TEMPERATURES OPTIMALLY.
3. COORDINATE INDIVIDUAL ALARM NOTIFICATIONS WITH OWNER.
4. ALARMS SHALL BE CONFIGURED AS STATUS ONLY OR CRITICAL. STATUS ONLY ALARMS SHALL DISPLAY ALARM ON THE OWNER COORDINATED WORKSTATION(S) AND DEVICE(S). CRITICAL ALARMS SHALL INCORPORATE COORDINATED UNIT SHUTDOWN ALONG WITH DISPLAYING ALARMS ON THE OWNER COORDINATED DEVICES AND REQUIRE THE ALARM TO BE CLEARED PRIOR TO RESTARTING THE EQUIPMENT.
5. ALL HVAC EQUIPMENT SHALL OPERATE IN OCCUPIED/UNOCCUPIED MODES AS DETERMINED BY THE DDC BUILDING TIME CLOCK SYSTEM. OBTAIN THE BUILDING OCCUPANCY SCHEDULE FROM THE OWNER.
6. ALL EQUIPMENT SHALL UTILIZE OPTIMUM START/STOP PROGRAMS.
7. ASSIGN ALL EQUIPMENT A STAGGER START NUMBER TO KEEP TO MANY UNITS FROM STARTING AT THE SAME TIME. IN EFFECT, THIS FLATTENS LOAD PEAKS. THIS INCLUDES START-UP ON EMERGENCY POWER.
8. UNOCCUPIED OVERRIDE BUTTONS SHALL PLACE THE SPACE EQUIPMENT IN OCCUPIED MODE FOR A PERIOD OF ONE-HOUR (ADJUSTABLE).
9. COORDINATE CHILLED WATER VALVE AND CHILLED WATER PUMP RESPONSE TIME WITH THE CHILLER MANUFACTURER'S MAXIMUM RATE OF CHANGE IN CHILLED WATER FLOW.

B. UNIVERSAL SET POINTS. UNLESS OTHERWISE NOTED, USE THE FOLLOWING SPACE TEMPERATURE SET POINTS. SET POINTS SHALL BE INDEPENDENTLY ADJUSTABLE BY SPACE THROUGH THE BMS.

	OCCUPIED MODES		UNOCCUPIED MODES	
	COOLING	HEATING	COOLING	HEATING
OCCUPIED SPACES	74°F	69°F	85°F	55°F
UNOCCUPIED SPACES	80°F	60°F	85°F	55°F

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NY ENGINEERING FIRM CERTIFICATE #0021419

SOUTH ORANGETOWN Central School District
Capital Improvements Bond
Essential Infrastructure for Student Health, Safety and Success

PROJECT INFORMATION

Project Number
14457.20

Client Name
SOUTH ORANGETOWN CENTRAL SCHOOL DISTRICT

Project Name
PHASE 2: 2022 BOND

TAPPAN ZEE HIGH SCHOOL

Building Address
160 VAN WYCK RD., BLAUVELT, NY 10913

SED # 50-03-01-06-0-006-033

Registration Expiration Dates
Lauren Tanio 09/30/26
Anthony Marchetti 05/31/27
Dave Hart 02/28/25
Jennifer Wengender 06/30/27

PROJECT ISSUE & REVISION SCHEDULE

#	Date	Description

PROFESSIONAL STAMPS

NEW YORK STATE EDUCATION STATEMENT

IT IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND THE COMMISSIONER'S REGULATIONS FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED ARCHITECT, ENGINEER OR LAND SURVEYOR TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE SEAL OF AN ARCHITECT, ENGINEER OR SURVEYOR IS ALTERED, THE ALTERING PARTY SHALL AFFIX TO THE ITEM THEIR SEAL AND THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE AND THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

SHEET INFORMATION

Issued
10/25/2024

Scale
NOT TO SCALE

Project Status
BID DOCUMENTS

Drawn By
KCM

Checked By
JJM

Drawing Title
MECHANICAL CONTROLS

Drawing Number
TZHS
H500

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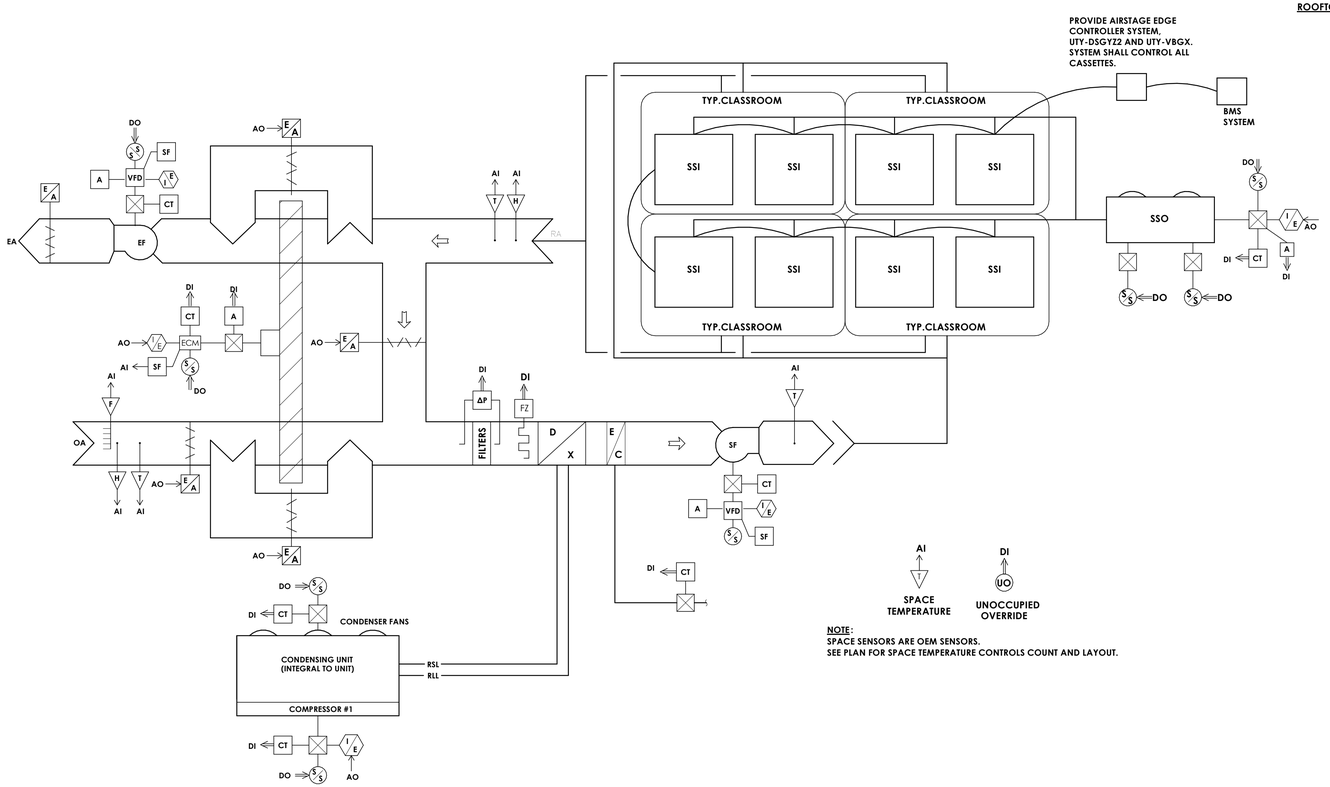

NOTE:
SPACE SENSORS ARE OEM SENSORS.
SEE PLAN FOR SPACE TEMPERATURE CONTROLS COUNT AND LAYOUT.

ROOFTOP DEDICATED OUTSIDE AIR SYSTEMS (DOAS) - ENERGY RECOVERY UNITS:

1. OCCUPIED
   - A. THE BMS WILL START THE UNIT SUPPLY AND RELIEF/EXHAUST FANS BASED ON A TIME-OF-DAY SCHEDULE. THE FANS WILL BE ENERGIZED CONTINUOUSLY WHENEVER THE ZONE IS SCHEDULED TO BE OCCUPIED. THE OUTSIDE AIR DAMPERS SHALL OPEN FULLY TO PROVIDE THE MINIMUM REQUIRED OUTSIDE AIR TO MEET THE VOLUMETRIC FLOW RATES INDICATED ON THE VENTILATION SCHEDULE. THE RELIEF AIR VENTILATOR DAMPER SHALL INDEX OPEN TO MATCH THE POSITION OF THE OUTSIDE AIR DAMPER TO EQUALIZE THE VOLUME OF RELIEF AIR WITH THE VOLUME OF OUTSIDE AIR. THE BMS WILL MONITOR THE DISCHARGE AIR TEMPERATURE.
   - B. THE INTEGRAL AIR-COOLED HEAT PUMP WILL OPERATE HEATING AND COOLING OPERATION TO MAINTAIN THE DISCHARGE AIR TEMPERATURE SETPOINT.
   - C. THE SUPPLEMENTAL HEATING COIL WILL REMAIN OFF DURING NORMAL UNIT OPERATION.
   - D. WHEN THE OUTSIDE AIR TEMPERATURE IS BELOW 10 DEG. F, THE HEAT PUMP WILL BE DISABLED, AND THE ELECTRIC COIL SHALL MAINTAIN THE DOWNSTREAM SUPPLY AIR TEMPERATURE SETPOINT.
   - E. IF THE CONNECTED SPACES ARE CALLING FOR COOLING, AND THE BMS INDICATES THAT ECONOMIZER OPERATION IS APPROPRIATE, THE BYPASS DAMPERS WILL MODULATE OPEN TO MAINTAIN THE DISCHARGE AIR TEMPERATURE SETPOINT. THE ELECTRIC COIL WILL BE OFF. THE OUTSIDE AIR DAMPER WILL BE RESTRICTED TO LIMIT THE MINIMUM DISCHARGE AIR TEMPERATURE TO A SETPOINT OF 55 DEGREES F (ADJUSTABLE) WHILE THE SPACE TEMPERATURE IS ABOVE THE COOLING SETPOINT.
   - F. IF THE SPACE TEMPERATURE RISES ABOVE THE COOLING SETPOINT OF 74 DEGREES F (ADJUSTABLE), AND THE BMS INDICATES THAT ECONOMIZER OPERATION IS NOT APPROPRIATE, THE OUTSIDE AIR DAMPERS WILL MODULATE CLOSE TO MINIMUM POSITION AND COOLING WILL BE ENABLED.
   - G. ECONOMIZER OPERATION SHALL USE AN ALGORITHM COMPARING INDOOR AIR AND OUTDOOR AIR ENTHALPY TO DETERMINE IF COOLING OR ASSISTED COOLING IS VIABLE. DX COOLING AND ECONOMIZER COOLING WILL BE ALLOWED TO OPERATE SIMULTANEOUSLY IF THE ALGORITHM CONFIRMS ASSISTED COOLING IS VIABLE.
   - H. ENERGY RECOVERY WHEEL CONTROL
     - 1) THE ENERGY RECOVERY WHEEL MOTOR WILL BE ENABLED WHENEVER THE SUPPLY AND RETURN/EXHAUST FANS ARE ENABLED EXCEPT AS NOTED HERE:
   - (A) THE ENERGY RECOVERY WHEEL MOTOR SHALL BE DISABLED WHEN THE BMS DETERMINES THAT IT IS BENEFICIAL TO USE ADDITIONAL OUTSIDE AIR FOR COOLING (ECONOMIZER MODE).
   - (B) THE ENERGY RECOVERY WHEEL MOTOR SHALL BE DISABLED FOR TWO MINUTES OUT OF EACH 30 MINUTE PERIOD WHEN THE OUTDOOR AIR TEMPERATURE IS AT OR BELOW ZERO DEGREES F (DEFROST CYCLE).
   - I. THE BMS WILL MONITOR FAN STATUS AND GENERATE AN ALARM WHENEVER THE FAN IS COMMANDED ON BUT THE STATUS INDICATES OFF. ALARMS WILL ALSO BE GENERATED IF A FREEZE CONDITION EXISTS OR IF A LOW DISCHARGE AIR TEMPERATURE IS DETECTED.
2. UNOCCUPIED
   - A. WHEN THE ZONE IS SCHEDULED TO BE UNOCCUPIED, THE FANS WILL BE DISABLED, AND THE OUTSIDE AIR DAMPER WILL BE CLOSED.
3. ALARMS
   - A. FAN FAILURE
     - 1) IF STATUS OF A FAN, WHICH HAS BEEN CALLED BY THE BMS SYSTEM TO START, HAS NOT BEEN VERIFIED AS RUNNING WITHIN A PERIOD OF 10 SECONDS (ADJ.), AN ALARM SHALL BE SENT TO THE OPERATOR'S WORKSTATION. THE FAN SHALL BE IDENTIFIED BY A DESCRIPTION OF WHAT IT SERVES, AND SHALL BE TAGGED AS A "FAN FAILURE".
   - B. LOW LIMIT THERMOSTAT
     - 1) IF THE AIR LEAVING THE HOT WATER COIL DROPS BELOW 38 DEGREES F (ADJ.) THE SUPPLY FAN SHALL BE STOPPED VIA HARD WIRE INTERLOCK AND THE BMS SYSTEM SHALL BE ALERTED BY A SET OF DRY CONTACTS PROVIDED BY THE LOW LIMIT THERMOSTAT. AN ALARM SHALL BE SENT TO THE OPERATOR'S WORKSTATION. THE UNIT SHALL BE IDENTIFIED BY ITS CALL NUMBER AND SHALL BE TAGGED AS A "LOW LIMIT THERMOSTAT ALARM". THE UNIT MUST BE MANUALLY RESET BEFORE IT CAN BE RESTARTED.

GENERAL NOTES:

1. SEQUENCES OF OPERATION SPECIFIED HEREIN, WHICH INDICATE THE FUNCTIONAL INTENT OF HVAC SYSTEMS, SUBSYSTEMS, AND/OR COMPONENTS OPERATION, ARE GENERAL IN NATURE AND MAY NOT FULLY DEFINE EVERY ASPECT OF PROGRAMMING THAT MAY BE REQUIRED TO FULFILL THE DESIGN INTENT. CONTRACTOR SHALL PROVIDE ALL PROGRAMMING AND HARDWARE NECESSARY TO OBTAIN THE SEQUENCES/SYSTEM OPERATION INDICATED, RESULTING IN STABLE HVAC SYSTEM OPERATION IN ACCORDANCE WITH THE DESIGN INTENT. THE SYSTEM SHALL COMMUNICATE WITH THE EXISTING BMS.

1.1 HVAC CONTROL SEQUENCES :

A. GENERAL
1. ALL SET POINTS, CHANGEOVER POINTS AND RESET SCHEDULES SHALL BE USER ADJUSTABLE.
2. CONTROL ALGORITHMS SHALL UTILIZE TUNED PID LOOPS TO MAINTAIN SET POINTS AND MINIMUM/MAXIMUM LEAVING AIR TEMPERATURES OPTIMALLY.
3. COORDINATE INDIVIDUAL ALARM NOTIFICATIONS WITH OWNER.
4. ALARMS SHALL BE CONFIGURED AS STATUS ONLY OR CRITICAL. STATUS ONLY ALARMS SHALL DISPLAY ALARM ON THE OWNER COORDINATED WORKSTATION(S) AND DEVICE(S). CRITICAL ALARMS SHALL INCORPORATE COORDINATED UNIT SHUTDOWN ALONG WITH DISPLAYING ALARMS ON THE OWNER COORDINATED DEVICES AND REQUIRE THE ALARM TO BE CLEARED PRIOR TO RESTARTING THE EQUIPMENT.
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6. ALL EQUIPMENT SHALL UTILIZE OPTIMUM START/STOP PROGRAMS.
7. ASSIGN ALL EQUIPMENT A STAGGER START NUMBER TO KEEP TO MANY UNITS FROM STARTING AT THE SAME TIME. IN EFFECT, THIS FLATTENS LOAD PEAKS. THIS INCLUDES START-UP ON EMERGENCY POWER.
8. UNOCCUPIED OVERRIDE BUTTONS SHALL PLACE THE SPACE EQUIPMENT IN OCCUPIED MODE FOR A PERIOD OF ONE-HOUR (ADJUSTABLE).
9. COORDINATE CHILLED WATER VALVE AND CHILLED WATER PUMP RESPONSE TIME WITH THE CHILLER MANUFACTURER'S MAXIMUM RATE OF CHANGE IN CHILLED WATER FLOW.

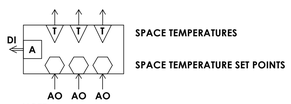
B. UNIVERSAL SET POINTS. UNLESS OTHERWISE NOTED, USE THE FOLLOWING SPACE TEMPERATURE SET POINTS. SET POINTS SHALL BE INDEPENDENTLY ADJUSTABLE BY SPACE THROUGH THE BMS.

	OCCUPIED MODES		UNOCCUPIED MODES	
	COOLING	HEATING	COOLING	HEATING
OCCUPIED SPACES	74°F	69°F	85°F	55°F
UNOCCUPIED SPACES	80°F	60°F	85°F	55°F

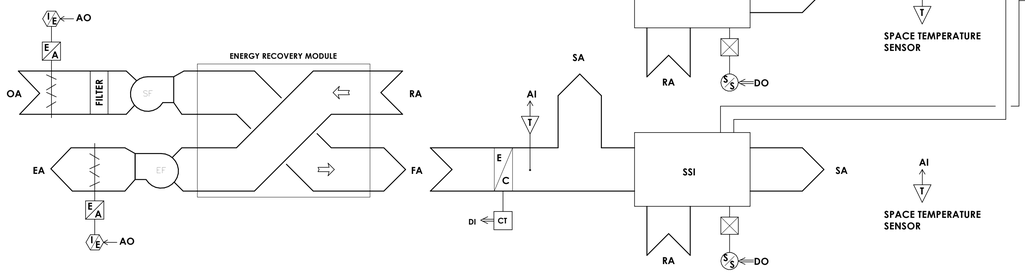
1 H501 TYPICAL CLASSROOM DOAS CONTROLS DIAGRAM

SCALE: NOT TO SCALE

A. ENERGY RECOVERY UNITS:
1. OCCUPIED MODE
   - a. ENABLE SUPPLY AND EXHAUST EC FAN MOTORS AT ALL TIMES.
     - 1) ENERGIZE THE DUCT MOUNTED HEATING COIL TO MAINTAIN THE DUCT TEMPERATURE SET POINT.
2. UNOCCUPIED MODES
   - a. SEQUENCE OF OPERATIONS IN UNOCCUPIED MODE IS THE SAME AS OCCUPIED MODE EXCEPT THE ERU SHALL BE DISABLED UNLESS THERE IS A CALL FOR HEATING OR COOLING. CONTROL VALVES SHALL BE CLOSED UNLESS THE ERU IS ENABLED.
3. ALARMS
   - a. FAN START FAILURE.
   - b. FAN STOP FAILURE.
   - c. HIGH/LOW DISCHARGE AIR TEMPS.
   - d. HIGH/LOW COIL ENTERING AIR TEMPS
   - e. HIGH WATER LEVEL IN DRAIN PAN
   - f. DIRTY FILTER



NOTE:
SPACE SENSORS ARE VRF OEM SENSORS.
REFERENCE PLANS FOR QUANTITY AND LOCATIONS.



VRF MANUFACTURER TO PROVIDE CONTROL OF SPACE TEMPERATURE SET POINTS, OCCUPIED/UNOCCUPIED MODES, HEATING, COOLING MODES AND LOAD DEMAND.

A. FIN-TUBE:
   - a. HEATING MODE: MODULATE CONTROL VALVE TO MAINTAIN SPACE TEMPERATURE SET POINT OF 69°F - ADJUSTABLE.
   - b. COOLING MODE: MODULATE CONTROL VALVE TO FULL CLOSED POSITION.
   - c. ALARMS:
     - 1) HIGH/LOW SPACE TEMPERATURE.

2 H501 OFFICE VRF SYSTEM CONTROLS SCHEMATIC

SCALE: NOT TO SCALE

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Poughkeepsie, NY 12601
CPLteam.com
NY ENGINEERING FIRM CERTIFICATE #0021419

SOUTH ORANGETOWN Central School District
Capital Improvements Bond
Essential Infrastructure for Student Health, Safety and Success

PROJECT INFORMATION

Project Number
14457.20

Client Name
SOUTH ORANGETOWN CENTRAL SCHOOL DISTRICT

Project Name
PHASE 2: 2022 BOND

TAPPAN ZEE HIGH SCHOOL

Building Address
160 VAN WYCK RD., BLAUVELT, NY 10913

SED # 50-03-01-06-0-006-033

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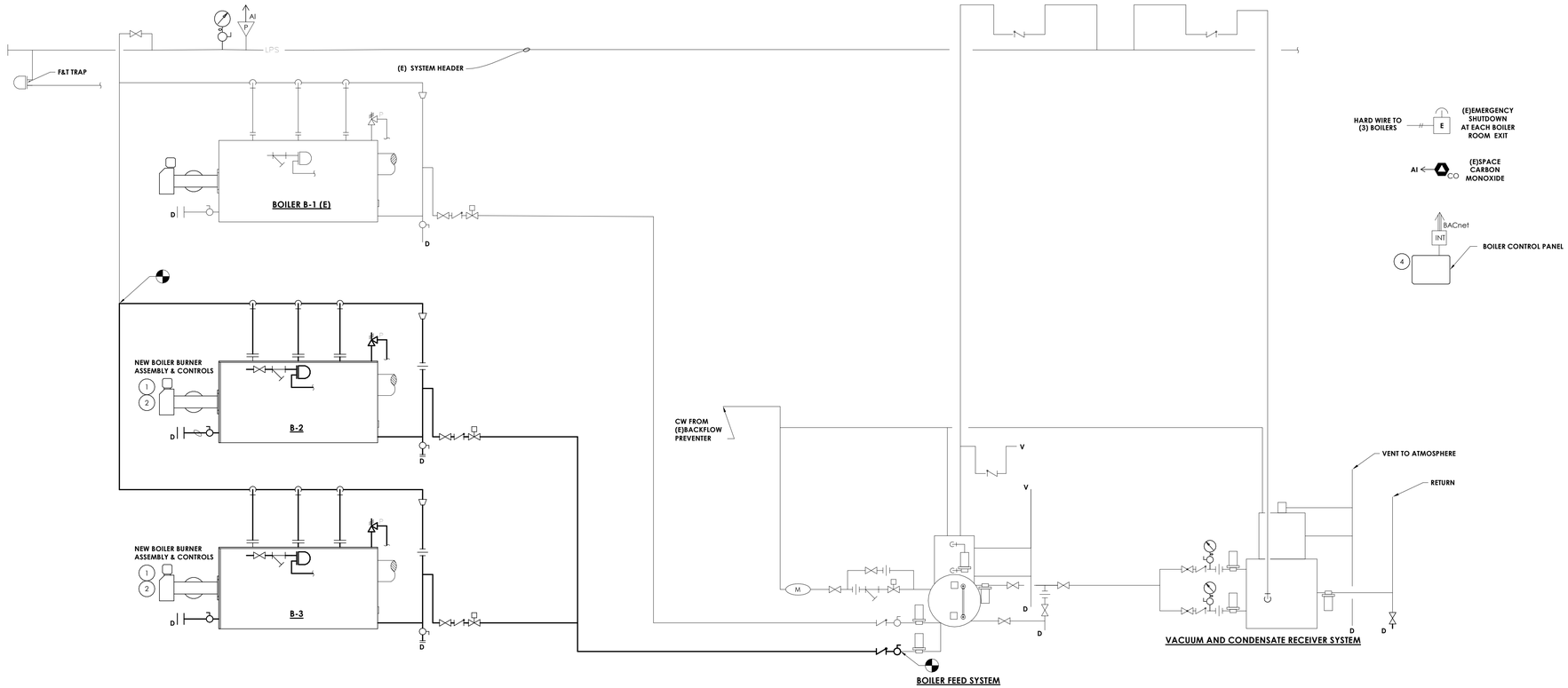
SHEET INFORMATION

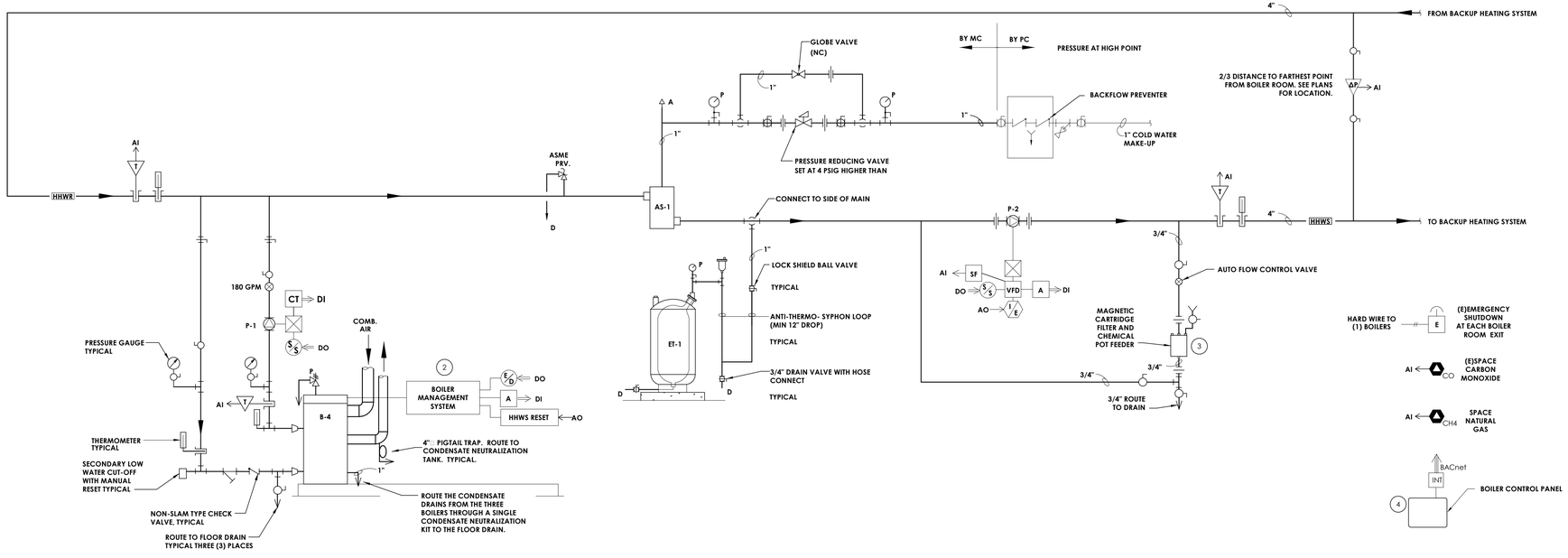
Issued: 10/25/2024
Scale: NOT TO SCALE
Project Status: BID DOCUMENTS
Drawn By: KCM
Checked By: JJM
Drawing Title: MECHANICAL CONTROLS

Drawing Number
TZHS
H501



1 H502 **SYSTEM PIPING AND CONTROLS SCHEMATIC**

SCALE: NOT TO SCALE



2 H502 **SYSTEM PIPING AND CONTROLS SCHEMATIC**

SCALE: NOT TO SCALE

GENERAL NOTES:

A. THE BOILER INSTALLATION SHALL COMPLY WITH ANSI/ASME CSD-1, SAFETY DEVICES FOR AUTOMATICALLY FIRED BOILERS.

B. IT IS NOT THE INTENT OF THE DRAWINGS TO SHOW ALL AIR VENTS AND DRAINS IN THE PIPING SYSTEMS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE AIR VENTS AT ALL SYSTEM HIGH POINTS AND AT AREAS WITHIN THE PIPING SYSTEMS THAT COULD ACCUMULATE OR TRAP AIR WHICH WOULD PREVENT PROPER VENTING OR OPERATION OF THE SYSTEMS. DRAINS SHALL BE PROVIDED AT ALL LOW POINTS WITHIN THE PIPING SYSTEM TO FACILITATE COMPLETE DRAINING OF THE SYSTEM.

C. COORDINATE LOCATION OF MECHANICAL EQUIPMENT WITH PLUMBING AND ELECTRICAL CONTRACTORS.

D. RUN ALL NEW PIPING AS HIGH AS POSSIBLE.

KEY NOTES:

1. INSTALL GAS FIRED BOILER INCLUSIVE OF BURNER, TRIM, CONTROLS, AND SAFETIES. ENGAGE A QUALIFIED TECHNICIAN TO EXECUTE AND DOCUMENT ALL MANUFACTURERS SUGGESTED START UP AND COMMISSIONING TESTING INCLUDING THE BOILER, BURNER, AND ALL RELATED CONTROL SYSTEMS. PROVIDE NEOPRENE VIBRATION ISOLATION PAD AT BOILER BASE MOUNTING POINTS.
2. INSTALL MODULATING GAS BURNER SYSTEM INCLUDING AIR DENSITY BURNER MANAGEMENT SYSTEM. PROVIDE NEW BOILER MANAGEMENT CONTROLS. INTEGRATE WITH NEW AND REFURBISHED BOILER BURNERS, CONTROLS DEVICES, AND EMERGENCY SHUTDOWN SYSTEM.
3. COORDINATE WITH LOCAL CHEMICAL TREATMENT SERVICES PROVIDER TO PROVIDE A NEW BOILER AND CONDENSATE TREATMENT SYSTEM INCLUSIVE OF PIPING, POWER, AND CONTROLS.
4. NEW CONTROL PANEL LOCATED NEAR INTERIOR DOOR. CONNECT TO CONTROL SYSTEM.

BOILER, CONDENSATE, AND STEAM SYSTEM SEQUENCE:

NOTES:

A. BOILER B-1,2,3 SHALL BE CONTROLLED BY THE BOILER CONTROLLER WITH BACNET INTERFACE TO THE BAS AND OPERATE IN LEAD/LAG SEQUENCING.
B. THE BOILER SYSTEM SHALL BE ENABLED BASED ON HEATING DEMAND DETERMINED BY THE BAS.

C. BOILER B-1 SHALL BE THE LEAD BOILER FROM NOVEMBER TO MARCH, B-2 AND B-3 SHALL MODULATE AND SWITCH WEEKLY TO PROVIDE SUPPLEMENTAL HEAT TO THE LOOP WHEN REQUIRED.

D. BOILER B-2 AND B-3 SHALL BE THE LEAD BOILERS FROM APRIL TO SEPTEMBER, B-1 SHALL BE USED FOR BACK UP ONLY. THEY SHALL SWAP LEAD OPERATION WEEKLY.

E. BOILER B-4 SHALL OPERATE INDEPENDENTLY AND SHALL OPERATE WHEN THE OUTDOOR AIR TEMPERATURE FALLS BELOW 20 DEG F OR IS COMMANDED ON BY THE USER FOR WARM-UP/BACK-UP.

F. THE BOILER CONTROLLERS SHALL MONITOR ALL MANUFACTURER RECOMMENDED AND REQUIRED SAFETY SYSTEMS AND INTERLOCKS INCLUDING, BUT NOT LIMITED TO:
   1. LOW WATER LEVEL.
   2. SECONDARY LOW WATER LEVEL
   3. HIGH STEAM PRESSURE.
   4. REFER TO SPECIFICATION SECTION FOR ADDITIONAL REQUIREMENTS.

G. THE COMBUSTION AIR SUPPLY SYSTEM SHALL BE INTERLOCKED WITH THE BOILER OPERATION.

H. THE BOILER WATER FEED SYSTEM SHALL BE AUTOMATED WITH BACNET INTERFACE.

I. THE BAS SHALL MONITOR AND REPORT SYSTEM PRESSURE, CONDENSATE RETURN TEMPERATURE, CARBON MONOXIDE, AND ANY / ALL ALARM CONDITIONS ASSOCIATED WITH THE BOILERS, CONDENSATE, BOILER FEED.

J. THE NATURAL GAS BURNER FIRING SHALL UTILIZE A MODULATING AIR DENSITY CONTROL SYSTEM TO OPTIMIZE COMBUSTION EFFICIENCY.
K. FACTORY CONTROLLERS FOR CONDENSATE RECEIVER, BOILER FEED, AND FEED SYSTEMS. COORDINATE SAMPLE SOLENOID VALVES WITH LEAD / LAG BOILER OPERATION.

B-4 SEQUENCE:

1. ENABLE BOILER SYSTEM AT OUTDOOR AIR TEMPERATURES BELOW 55°F. 1-HOUR MINIMUM CHANGEOVER TIME. BOILERS SHALL NOT BE COMMANDED ON UNTIL BUILDING HEATING HOT WATER CIRCULATION PUMPS ARE PROVEN ON.
2. BOILERS
   a. SEND DEMAND SIGNAL TO MASTER BOILER TO MAINTAIN BUILDING SUPPLY WATER TEMPERATURE PER RESET SCHEDULE BELOW. THE MINIMUM BOILER LOOP SUPPLY WATER TEMPERATURE SHALL BE 90°F.

   CONDENSING UNITS:

   BUILDING SUPPLY WATER RESET

	BUILDING SUPPLY WATER	
OAT	OCCUPIED	UNOCCUPIED
55°F	100°F	100°F
0°F	140°F	140°F

   1) UTILIZE OPTIMUM START PROGRAM TO REACH THE ABOVE TEMPERATURES FIVE-MINUTES PRIOR TO ANY BUILDING EQUIPMENT WARM-UP MODES OR UNOCCUPIED MODE.
   2) PROVIDE MANUAL OVERRIDE FOR BUILDING SUPPLY WATER TEMPERATURE SET POINT. OVERRIDE SHALL BE MAINTAINED FOR A PERIOD OF 24-HOURS PRIOR TO AUTOMATICALLY RESUMING RESET SCHEDULE.
   b. BOILER CONTROL SYSTEM OPENS THE ASSOCIATED CONTROL VALVE(S).
   c. ALARMS
      1) BOILER ALARM.
      2) HIGH CO OR CH4. SHUTDOWN IF EITHER OF THESE RISE TO UNSAFE LEVELS.
      3) HIGH/LOW BOILER DISCHARGE TEMP.
      4) HIGH/LOW BUILDING SUPPLY TEMP.
      5) EQUIPMENT FAILURE
      6) VFD ALARM.
3. BUILDING HEATING HOT WATER PUMPS
   a. ENABLE PUMPS SEQUENCE AT ALL TIMES IN HEATING MODES.

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SOUTH ORANGETOWN Central School District
Capital Improvements Bond
Essential Infrastructure for Student Health, Safety and Success

PROJECT INFORMATION

Project Number
14457.20

Client Name
SOUTH ORANGETOWN CENTRAL SCHOOL DISTRICT

Project Name
PHASE 2: 2022 BOND

TAPPAN ZEE HIGH SCHOOL

Building Address
160 VAN WYCK RD., BLAUVELT, NY 10913

SED # 50-03-01-06-0-006-033

Registration Expiration Dates
Lauren Tanio 09/30/26
Anthony Marchetti 05/31/27
Dave Hart 02/28/25
Jennifer Wengender 06/30/27

PROJECT ISSUE & REVISION SCHEDULE

#	Date	Description
1	07/26/2024	SED ADDENDUM #3

PROFESSIONAL STAMPS

SHEET INFORMATION

Issued
10/25/2024

Scale
12" = 1'-0"

Project Status
BID DOCUMENTS

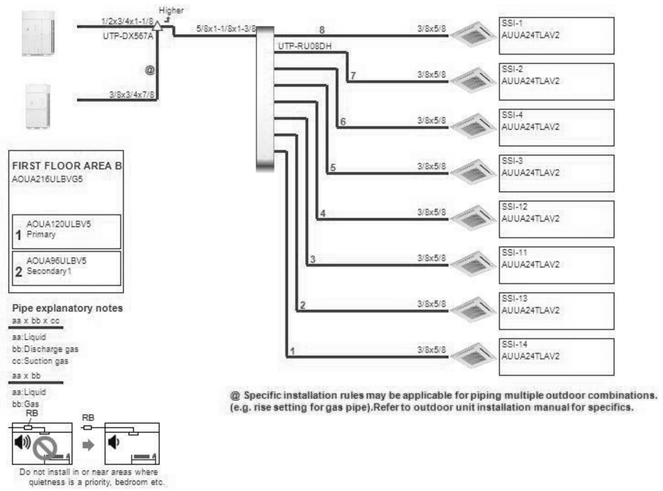
Drawn By
KCM

Checked By
JJM

Drawing Title
MECHANICAL CONTROLS

Drawing Number
TZHS
H502

4.1.Piping FIRST FLOOR AREA B (VRF system)



@ Specific installation rules may be applicable for piping multiple outdoor combinations. (e.g. rise setting for gas pipe).Refer to outdoor unit installation manual for specifics.

1 H600 **ACC-1 PIPING DIAGRAM**
NOT TO SCALE

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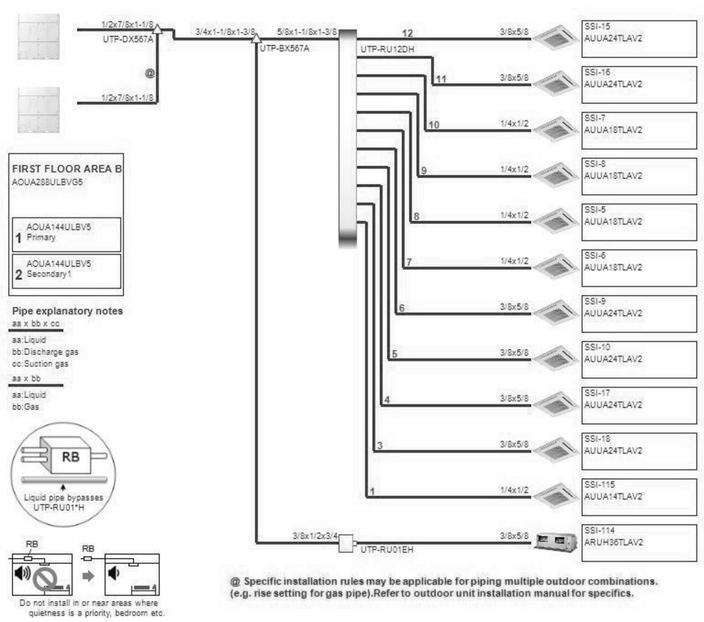
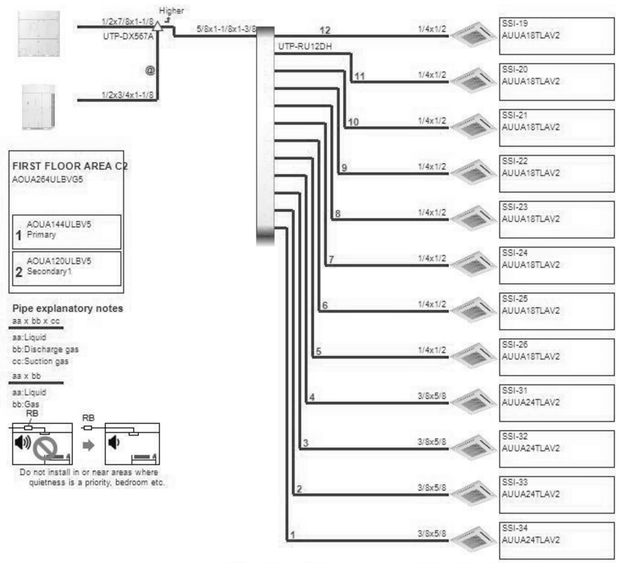


@ Specific installation rules may be applicable for piping multiple outdoor combinations. (e.g. rise setting for gas pipe).Refer to outdoor unit installation manual for specifics.

2 H600 **ACC-2 PIPING DIAGRAM**
NOT TO SCALE

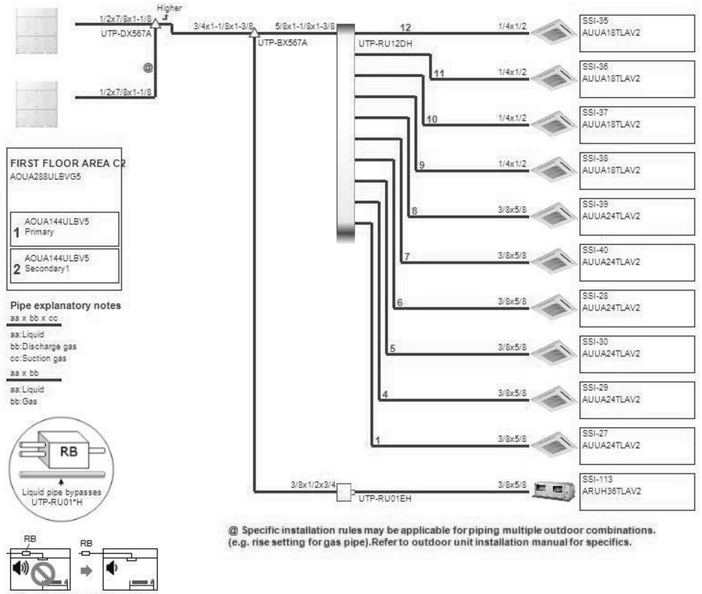
4.5.Piping FIRST FLOOR AREA C2 (VRF system)



@ Specific installation rules may be applicable for piping multiple outdoor combinations. (e.g. rise setting for gas pipe).Refer to outdoor unit installation manual for specifics.

3 H600 **ACC-3 PIPING DIAGRAM**
NOT TO SCALE

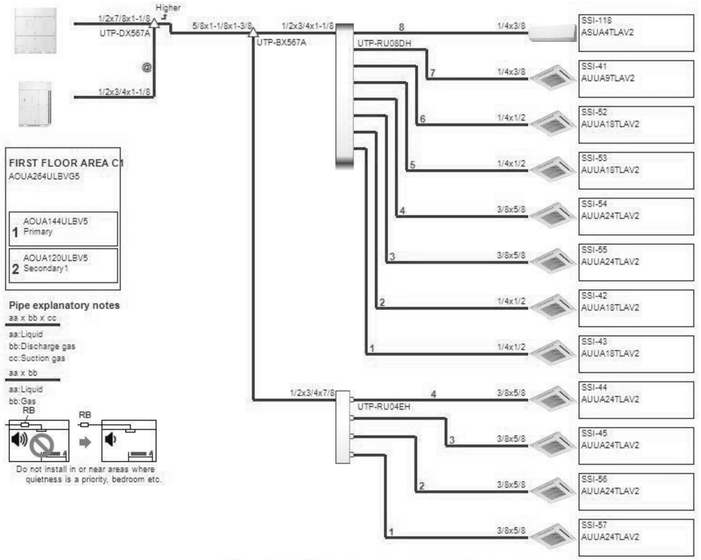
4.6.Piping FIRST FLOOR AREA C2 (VRF system)



@ Specific installation rules may be applicable for piping multiple outdoor combinations. (e.g. rise setting for gas pipe).Refer to outdoor unit installation manual for specifics.

4 H600 **ACC-4 PIPING DIAGRAM**
NOT TO SCALE

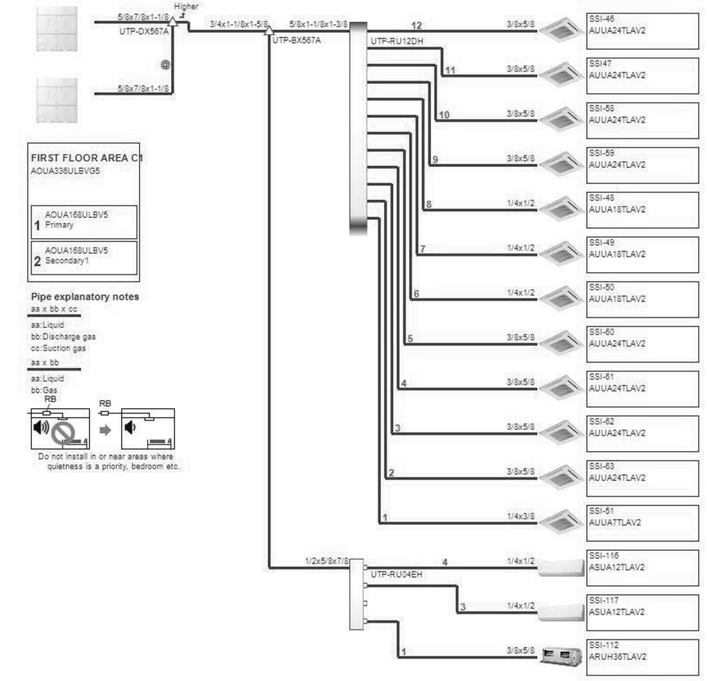
4.3.Piping FIRST FLOOR AREA C1 (VRF system)



@ Specific installation rules may be applicable for piping multiple outdoor combinations. (e.g. rise setting for gas pipe).Refer to outdoor unit installation manual for specifics.

5 H600 **ACC-5 PIPING DIAGRAM**
NOT TO SCALE

4.4.Piping FIRST FLOOR AREA C1 (VRF system)



@ Specific installation rules may be applicable for piping multiple outdoor combinations. (e.g. rise setting for gas pipe).Refer to outdoor unit installation manual for specifics.

6 H600 **ACC-6 PIPING DIAGRAM**
NOT TO SCALE

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SOUTH ORANGETOWN Central School District
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PROFESSIONAL STAMPS

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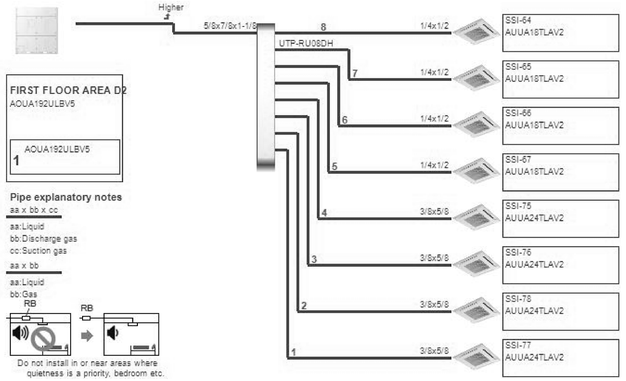
SHEET INFORMATION

Issued: 10/25/2024
Scale: NOT TO SCALE
Project Status: BID DOCUMENTS
Drawn By: KCM
Checked By: JJM
Drawing Title: VRF PIPING DIAGRAM

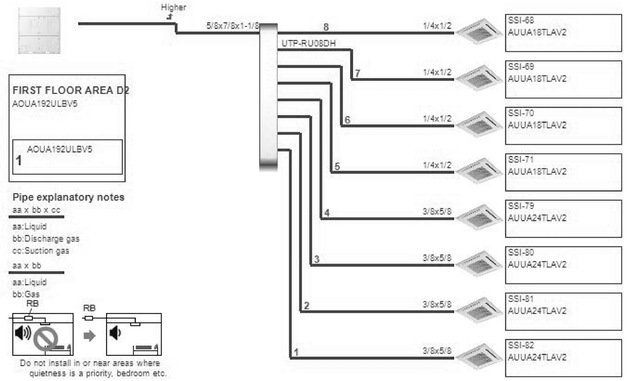
Drawing Number
TZHS
H600

4.9.Piping FIRST FLOOR AREA D2 (VRF system)



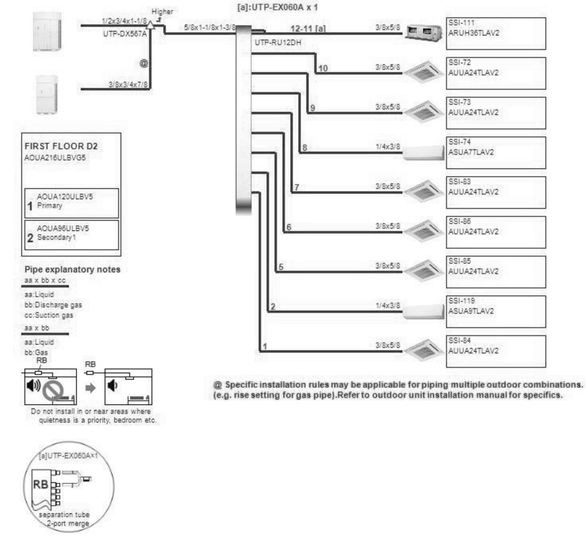
1 H601 **ACC-7 PIPING DIAGRAM**
NOT TO SCALE

4.11.Piping FIRST FLOOR AREA D2 (VRF system)



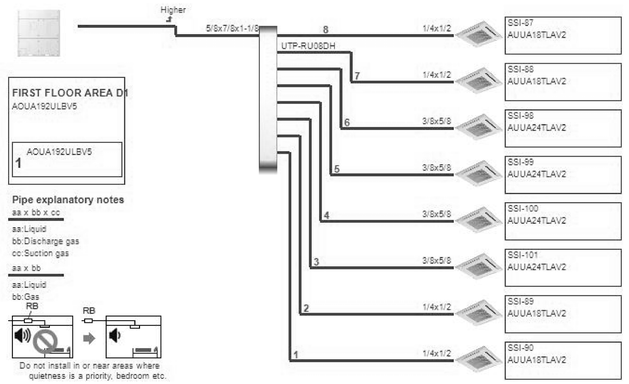
2 H601 **ACC-8 PIPING DIAGRAM**
NOT TO SCALE

4.12.Piping FIRST FLOOR D2 (VRF system)



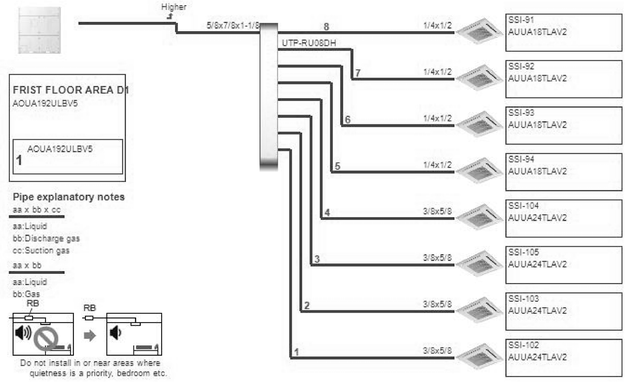
3 H601 **ACC-9 PIPING DIAGRAM**
NOT TO SCALE

4.7.Piping FIRST FLOOR AREA D1 (VRF system)



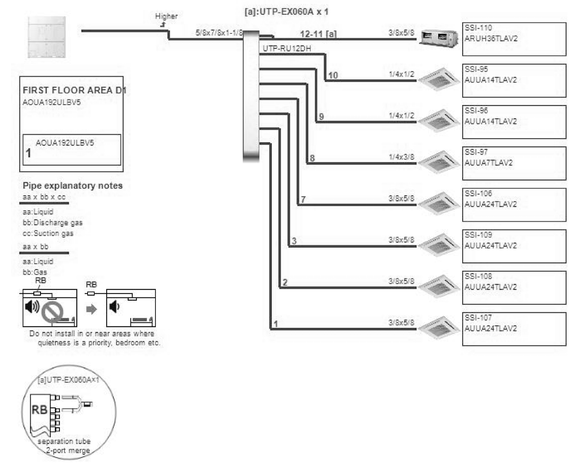
4 H601 **ACC-10 PIPING DIAGRAM**
NOT TO SCALE

4.8.Piping FRIST FLOOR AREA D1 (VRF system)



5 H601 **ACC-11 PIPING DIAGRAM**
NOT TO SCALE

4.10.Piping FIRST FLOOR AREA D1 (VRF system)



6 H601 **ACC-12 PIPING DIAGRAM**
NOT TO SCALE

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SOUTH ORANGETOWN Central School District
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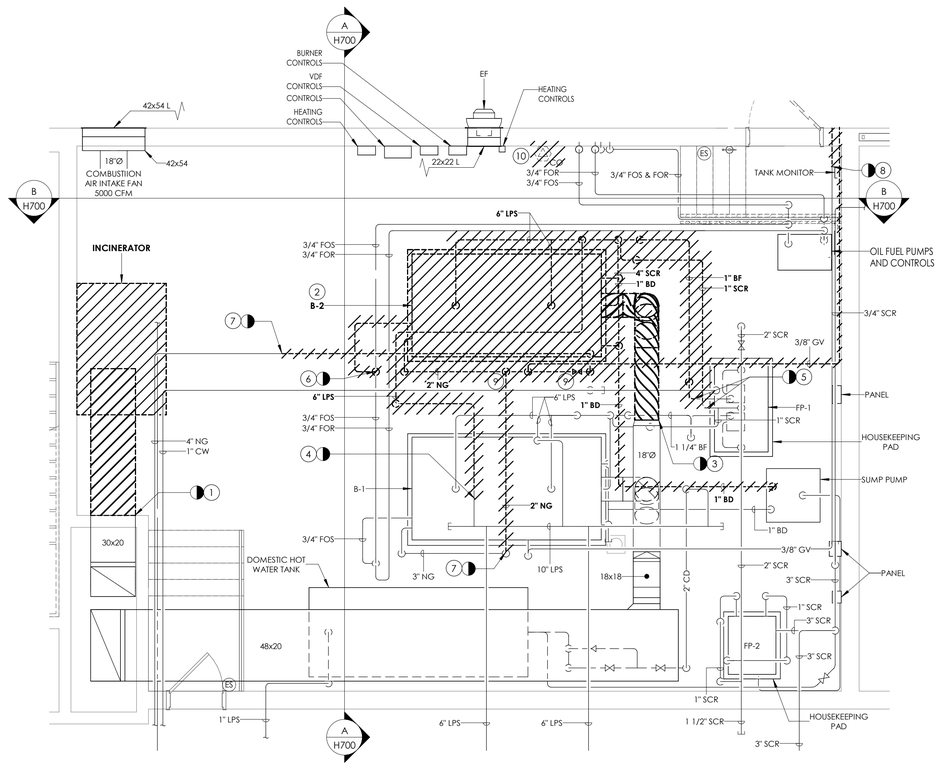
SHEET INFORMATION

Issued: 10/25/2024
Scale: NOT TO SCALE
Project Status: BID DOCUMENTS
Drawn By: KCM
Checked By: JJM
Drawing Title: VRF PIPING DIAGRAM

Drawing Number
TZHS
H601

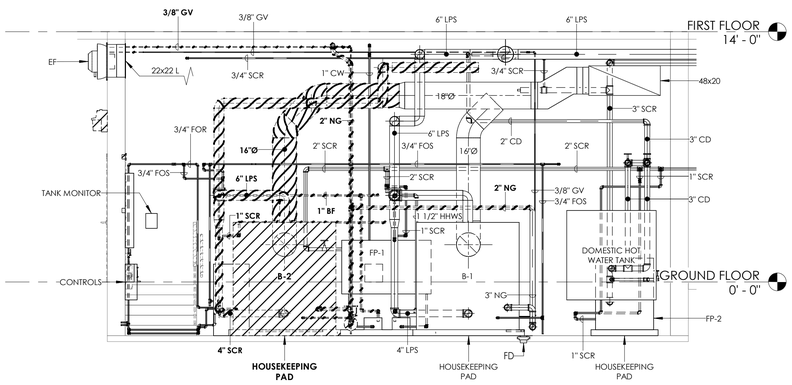
KEY NOTES

1. REMOVE INCINERATOR. REMOVE EXHAUST DUCT BACK TO CHASE AND PREPARE OF NEW.
2. REMOVE BOILER, FLUE, BLOW DRAIN PIPING, GAS VENT PIPING, CONTROLS AND HOUSEKEEPING PAD.
3. REMOVE FLUE UP TO POINT INDICATED AND CAP.
4. REMOVE STEAM SUPPLY PIPING BACK TO POINT INDICATED AND PREPARE FOR NEW CONNECTION.
5. REMOVE STEAM RETURN PIPING AND BOILER FEED PIPING BACK TO POINTS INDICATED AND PREPARE FOR NEW CONNECTION.
6. REMOVE FUEL OIL PIPING BACK TO POINT INDICATED AND CAP AT MAIN.
7. REMOVE NATURAL GAS PIPING BACK TO POINT INDICATED AND PREPARE FOR NEW CONNECTION.
8. REMOVE GAS VENT PIPING TO POINT INDICATED AND PREPARE FOR NEW CONNECTION.
9. REMOVE ISOLATION SHUT-OFF VALVES. PREPARE FOR NEW.
10. REMOVE CO SENSOR.



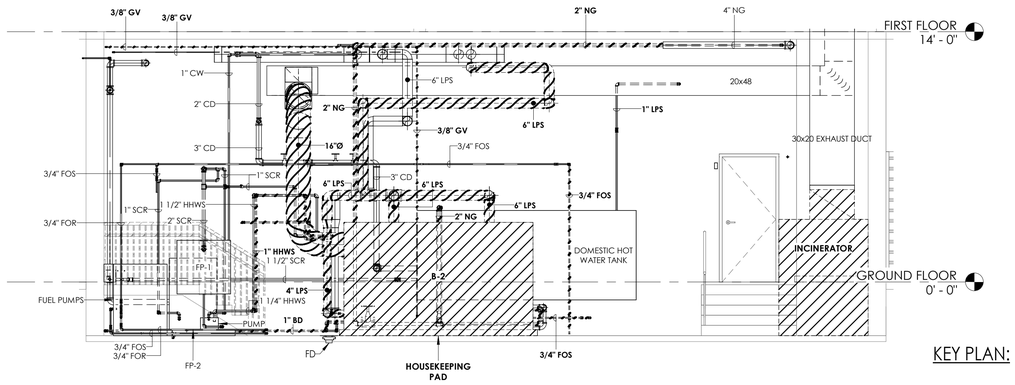
1 H700 **GROUND FLOOR HVAC PIPING DEMOLITION PLAN - AREA F - Callout 1**

1/4" = 1'-0"



A H700 **BOILER ROOM DEMOLITION - SECTION A**

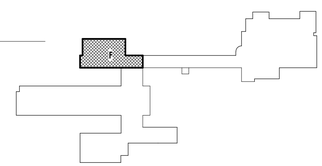
1/4" = 1'-0"



B H700 **BOILER ROOM DEMOLITION - SECTION B**

1/4" = 1'-0"

KEY PLAN:



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SOUTH ORANGETOWN Central School District
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Essential Infrastructure for Student Health, Safety and Success

PROJECT INFORMATION

Project Number
14457.20

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Project Name
PHASE 2: 2022 BOND

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PROJECT ISSUE & REVISION SCHEDULE

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1	07/26/2024	SED ADDENDUM #3

PROFESSIONAL STAMPS

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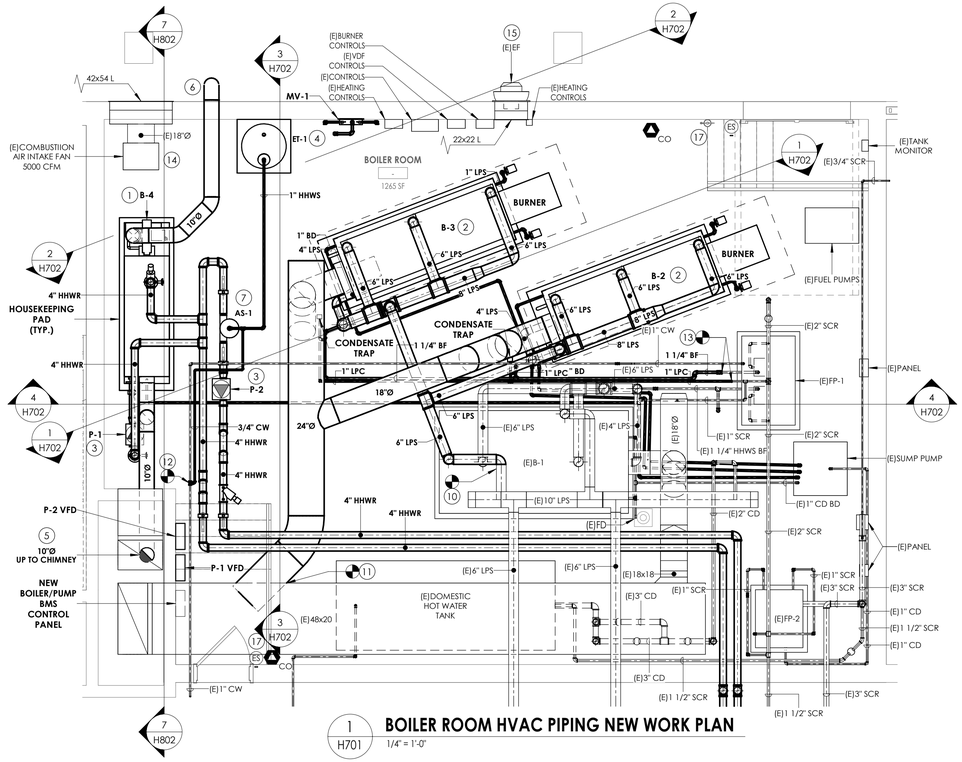
SHEET INFORMATION

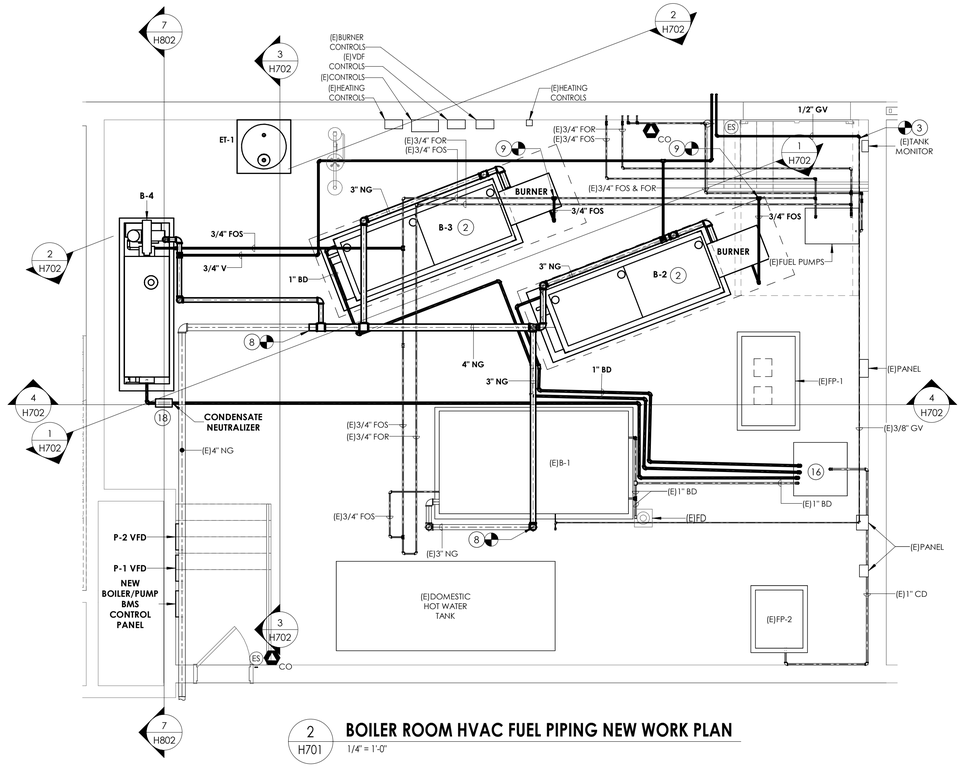
Issued: 10/25/2024
Scale: 1/4" = 1'-0"
Project Status: BID DOCUMENTS
Drawn By: KCM
Checked By: JJM
Drawing Title: BOILER ROOM ENLARGED DEMOLITION PLAN
Drawing Number: TZHS H700

10/24/2024 12:30:59 P.M. <project location>\ REVIT PROJECT FILES ON BIM 360



1 H701 BOILER ROOM HVAC PIPING NEW WORK PLAN

1/4" = 1'-0"



2 H701 BOILER ROOM HVAC FUEL PIPING NEW WORK PLAN

1/4" = 1'-0"

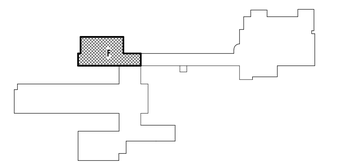
GENERAL NOTES:

1. PAINT PIPING ROUTED ON FLOOR YELLOW IN TRAP HAZARD PATHS.

KEY NOTES

1. PROVIDE CONDENSING BOILER AND INSTALL ON NEW HOUSEKEEPING PAD. CONNECT TO EXISTING EMERGENCY STOP BUTTON AT EACH DOOR ENTRY.
2. INSTALL OWNER PROVIDED STEAM BOILER AND TRIM BURNER ON NEW HOUSEKEEPING PAD. CONNECT TO STEAM PIPING AND FLUE AT POINTS INDICATED. ROUTE BLOW DOWN PIPING TO FLOOR DRAIN AND PROVIDE WITH INDIRECT CONNECTION. CONNECT TO EXISTING EMERGENCY STOP BUTTON AT EACH DOOR ENTRY.
3. PROVIDE INLINE PUMP.
4. PROVIDE EXPANSION TANK AND CONNECT TO HOT WATER SYSTEM.
5. ROUTE NEW FLUE THROUGH EXISTING CHIMNEY.
6. AIR INTAKE TO BE TERMINATED WITH DOWNWARDS 90° ELBOW AND WITH 1/2" x 1/2" BIRD SCREEN.
7. PROVIDE AIR SEPERATOR AND CONNECT TO HOT WATER RETURN PIPING.
8. CONNECT TO EXISTING NATURAL GAS PIPING AND ROUTE TO GAS TRAINS.
9. CONNECT TO EXISTING OIL SUPPLY/RETURN PIPING AND ROUTE TO BURNER.
10. CONNECT NEW STEAM PIPING TO EXISTING STEAM BRANCH IN LOCATION SHOWN.
11. CONNECT NEW FLUE TO EXISTING FLUE. MATCH/RE-INSULATE AS REQUIRED.
12. CONNECT TO COLD WATER MAKE UP. PROVIDED BY PLUMBER IN THIS AREA. COORDINATE EXACT LOCATION.
13. CONNECT NEW BOILER FEED PIPING TO EXISTING BOILER FEED PIPING AT POINT INDICATED.
14. EXISTING COMBUSTION AIR INTAKE FAN TO BE INTERCONNECTED TO STEAM BOILER BURNERS.
15. EXISTING COMBUSTION AIR RELIEF FAN TO BE INTERCONNECTED TO STEAM BOILER BURNERS.
16. DRAIN TO SUMP PUMP. PROVIDE AIR GAP.
17. PROVIDE CO SENSOR NEAR EACH EXIT. REFERENCED ON H502. CONNECT CO SENSORS AND EXISTING EMERGENCY SHUT-OFF CONTROLS TO ALL BOILERS.
18. PROVIDE NEUTRALIZATION TANK FOR CONDENSING BOILER.

KEY PLAN:



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SHEET INFORMATION

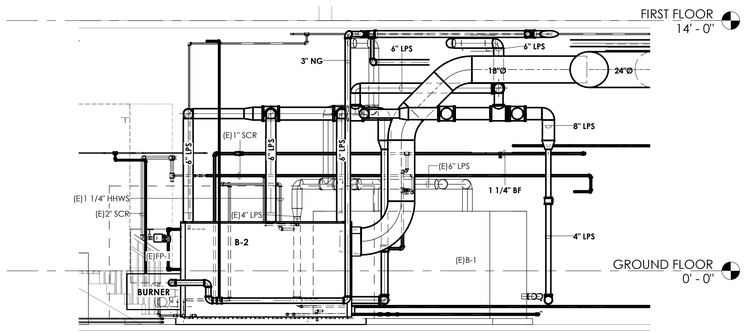
Issued	Scale
10/25/2024	1/4" = 1'-0"

Project Status
BID DOCUMENTS

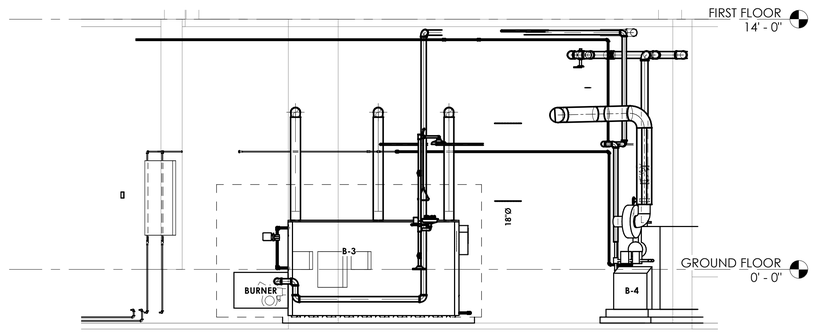
Drawn By	Checked By
KCM	JJM

Drawing Title
BOILER ROOM ENLARGED NEW WORK PLANS

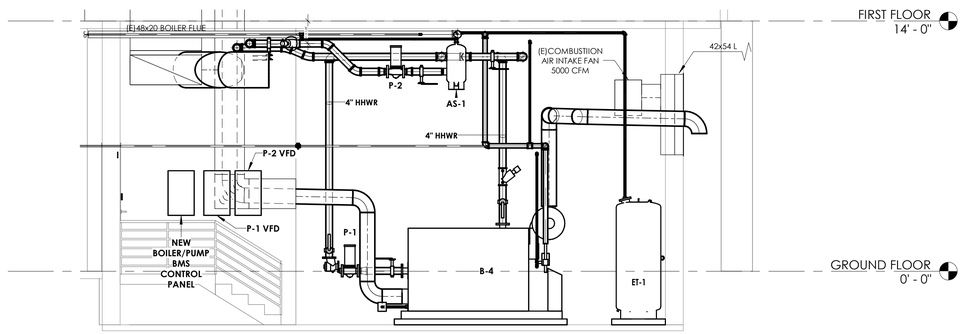
Drawing Number
TZHS
H701



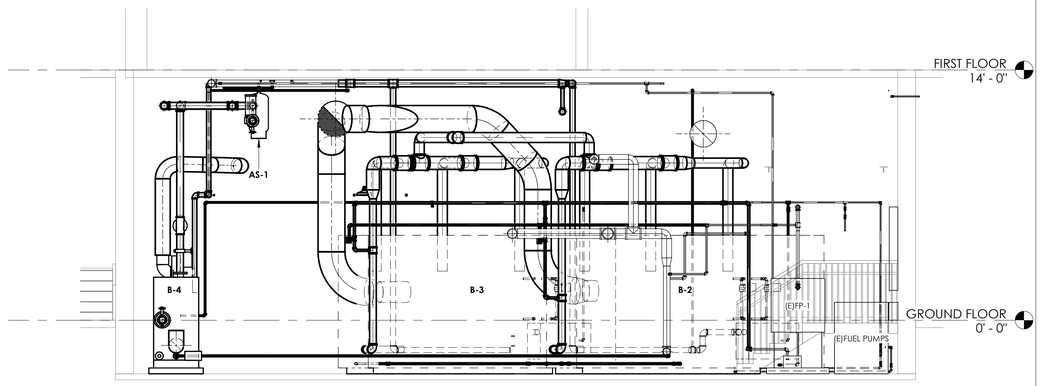
1 H702 **BOILER SECTION 1**
1/4" = 1'-0"



2 H702 **BOILER SECTION 2**
1/4" = 1'-0"

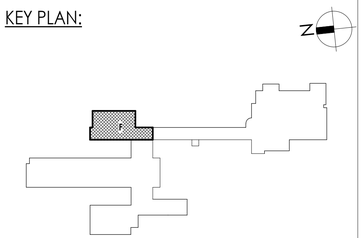


3 H702 **BOILER SECTION 3**
1/4" = 1'-0"



4 H702 **BOILER SECTION 4**
1/4" = 1'-0"

KEY PLAN:



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Issued
10/25/2024

Scale
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Project Status
BID DOCUMENTS

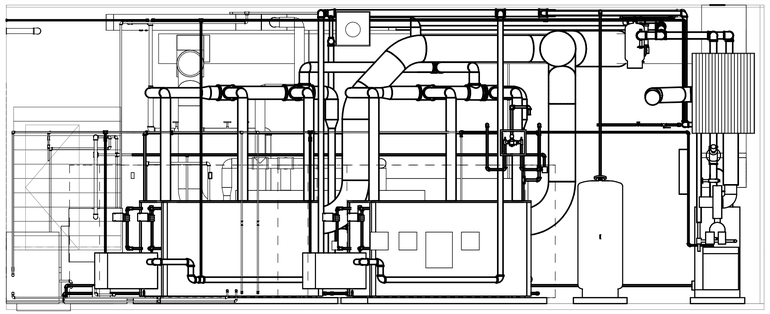
Drawn By
KCM

Checked By
JJM

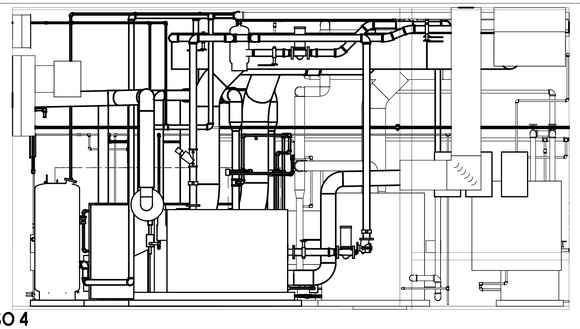
Drawing Title
BOILER ROOM SECTION VIEWS

Drawing Number
TZHS
H702

10/24/2024 12:31:57 PM <project location>\REVIT PROJECT FILES ON BIM 360



3 H703 **BOILER ISO 3**
1/4" = 1'-0"



4 H703 **BOILER ISO 4**
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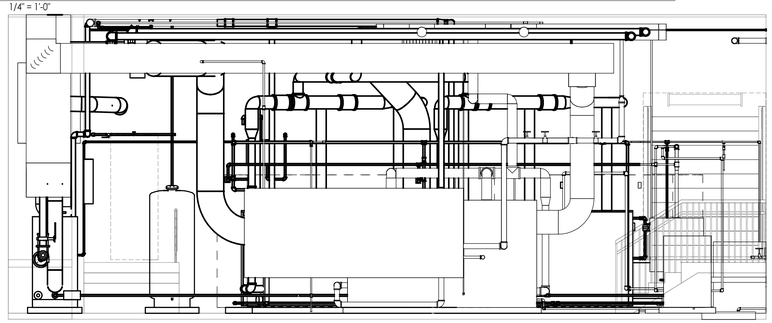

5 H703 **BOILER ISO 5**
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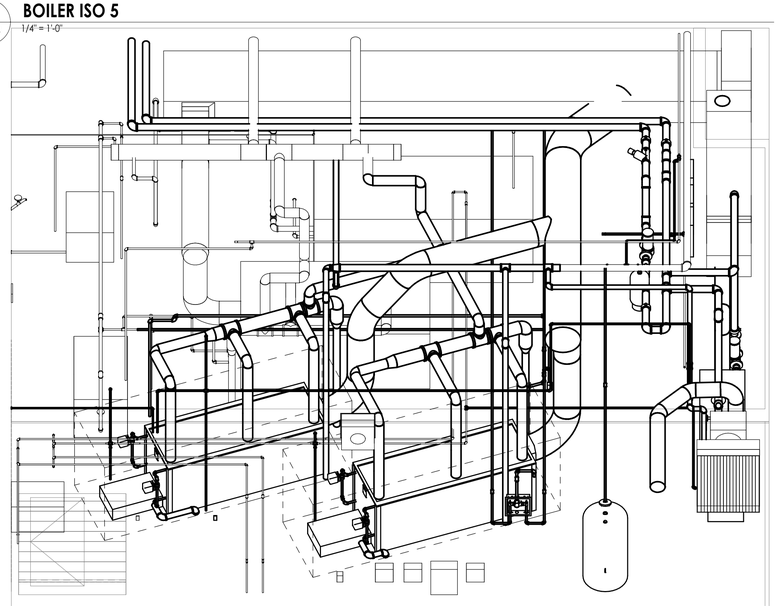

6 H703 **BOILER ISO 6**
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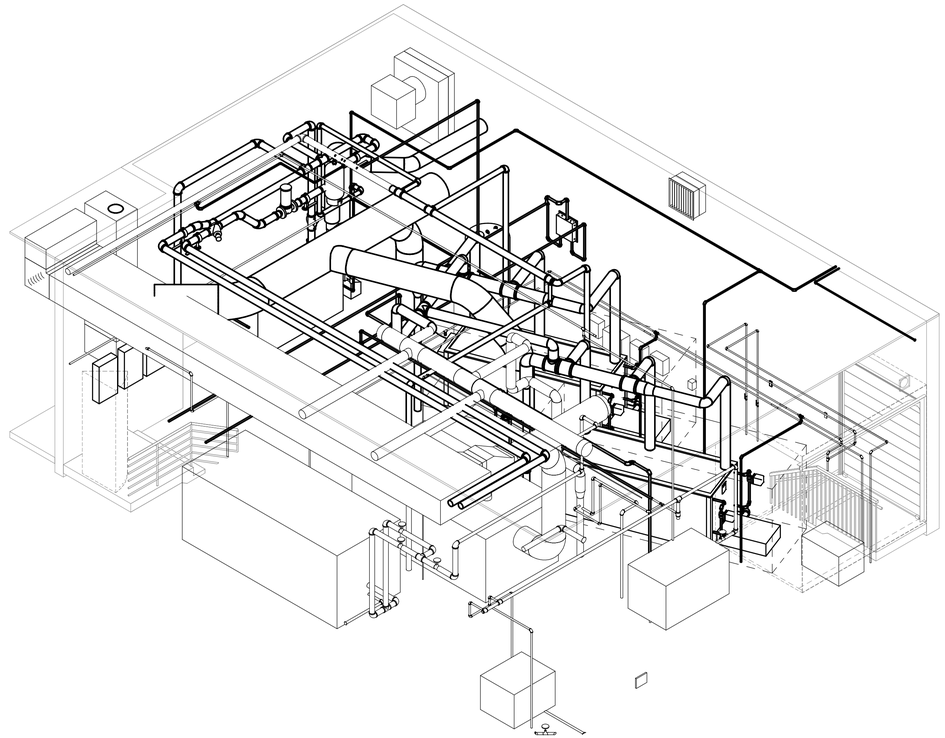

1 H703 **BOILER ISO 1**
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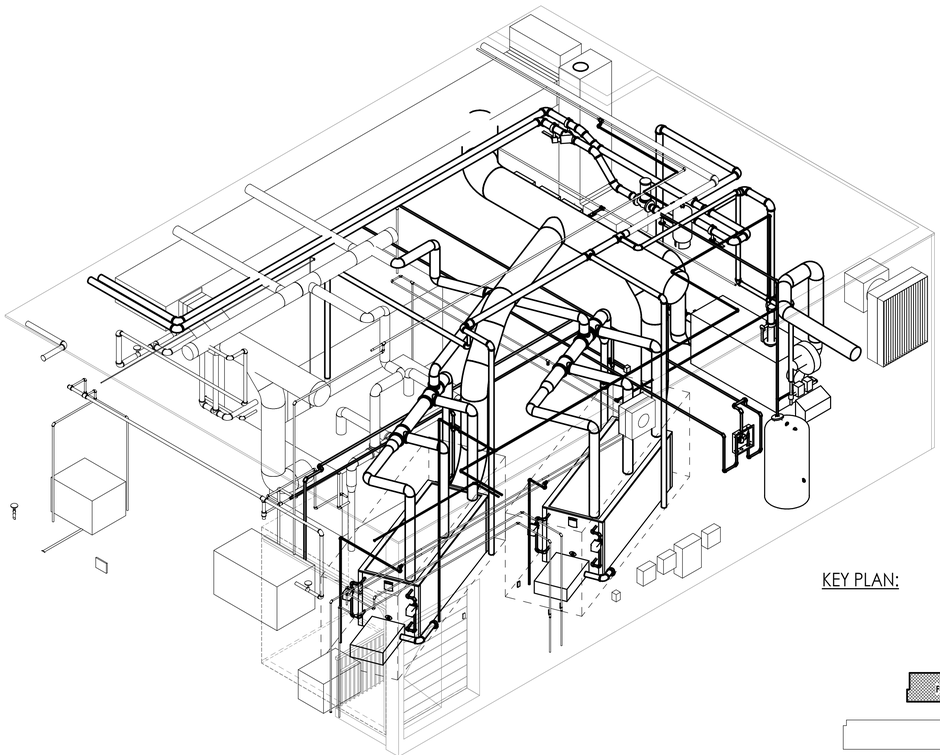
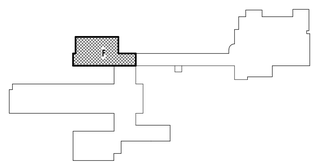


2 H703 **BOILER ISO 2**
1/4" = 1'-0"

KEY PLAN:



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NY ENGINEERING FIRM CERTIFICATE #0021419

SOUTH ORANGETOWN Central School District
Capital Improvements Bond
Essential Infrastructure for Student Health, Safety and Success

PROJECT INFORMATION

Project Number
14457.20

Client Name
SOUTH ORANGETOWN CENTRAL SCHOOL DISTRICT

Project Name
PHASE 2: 2022 BOND

TAPPAN ZEE HIGH SCHOOL

Building Address
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SED # 50-03-01-06-0-006-033

Registration Expiration Dates
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Anthony Marchetti 05/31/27
Dave Hart 02/28/25
Jennifer Wengender 06/30/27

PROJECT ISSUE & REVISION SCHEDULE

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SHEET INFORMATION

Issued 10/25/2024
Scale 1/4" = 1'-0"
Project Status BID DOCUMENTS
Drawn By KCM
Checked By JJM
Drawing Title BOILER ROOM ISOMETRICS

Drawing Number
TZHS
H703

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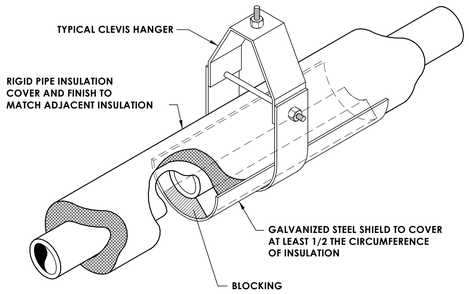
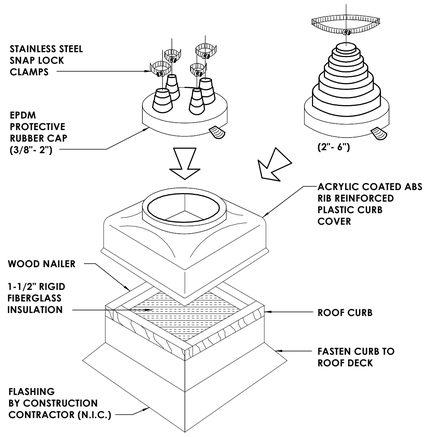
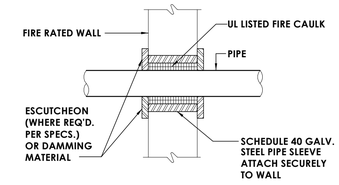


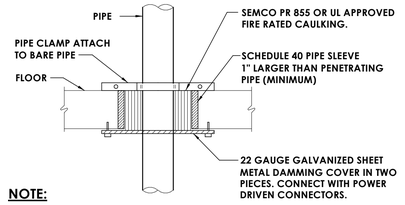
1 H800 **INSULATED PIPE HANGER DETAIL**
NOT TO SCALE



2 H800 **PIPE PORTAL DETAIL**
NOT TO SCALE

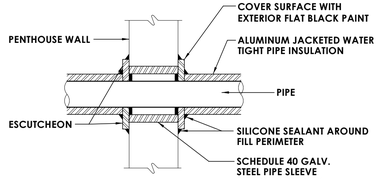


3 H800 **PIPE THROUGH RATED WALL**
NOT TO SCALE

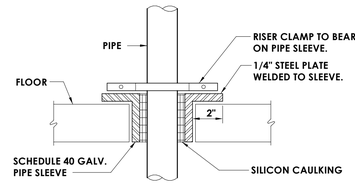


NOTE:
ALL MATERIALS MUST HAVE A MINIMUM MELTING POINT OF 1700° F

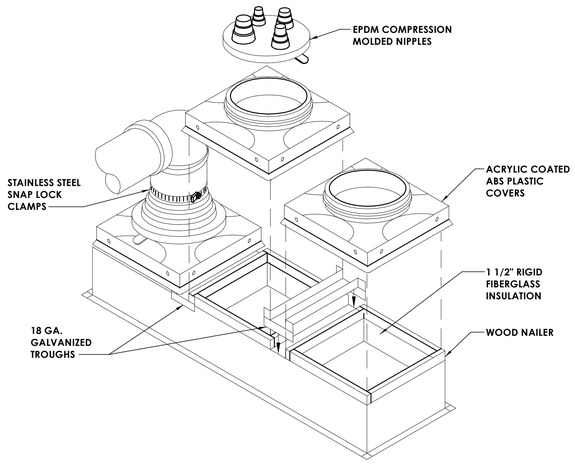
4 H800 **PIPE THROUGH RATED FLOOR**
NOT TO SCALE



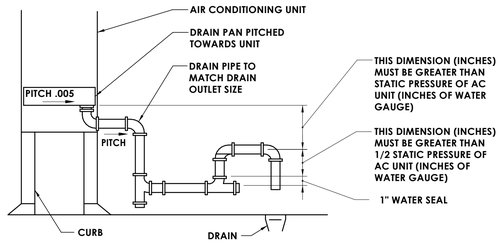
5 H800 **PIPE THROUGH NON-RATED WALL**
NOT TO SCALE



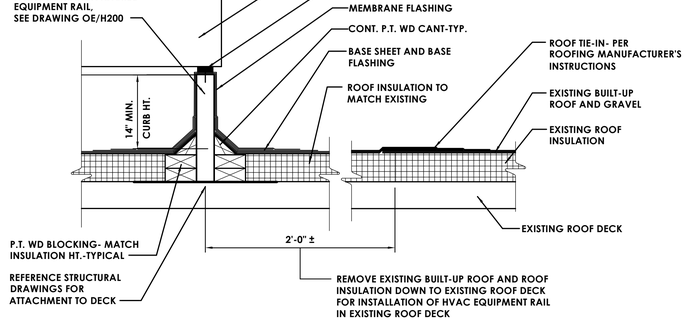
6 H800 **PIPE THROUGH NON-RATED FLOOR**
NOT TO SCALE



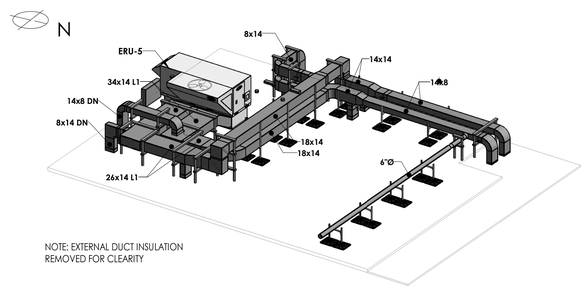
7 H800 **MULTIPLE OPENING PIPE PORTAL DETAIL**
NOT TO SCALE



8 H800 **AHU CONDENSATE TRAP DETAIL**
NOT TO SCALE

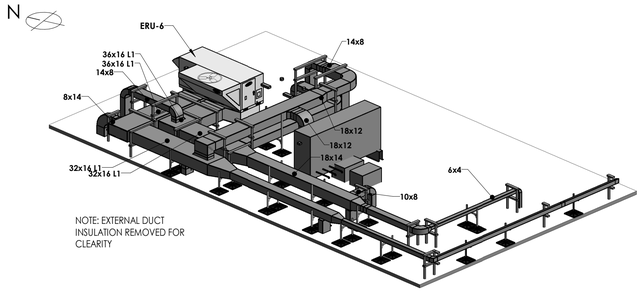


9 H800 **EQUIPMENT RAIL DETAIL**
NOT TO SCALE



NOTE: EXTERNAL DUCT INSULATION REMOVED FOR CLEARITY

10 H800 **ERU-5 AND ROOF DUCTWORK**
1/8" = 1'-0"



NOTE: EXTERNAL DUCT INSULATION REMOVED FOR CLEARITY

11 H800 **ERU-6 AND ROOF DUCTWORK**
1/8" = 1'-0"

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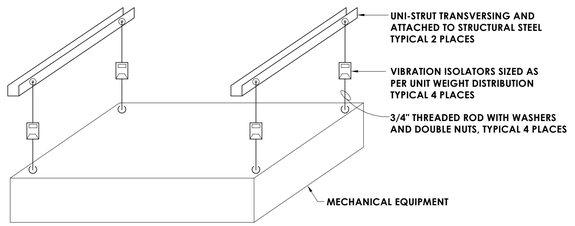
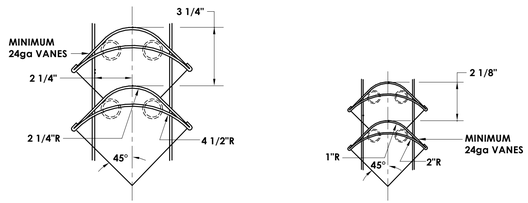
Checked By: JJM
Drawing Title: DETAILS

Drawing Number
TZHS
H800



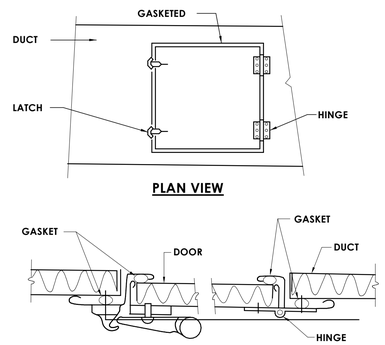
1 H801 **INDOOR UNIT SUPPORT INSTALLATION DETAIL**
NOT TO SCALE



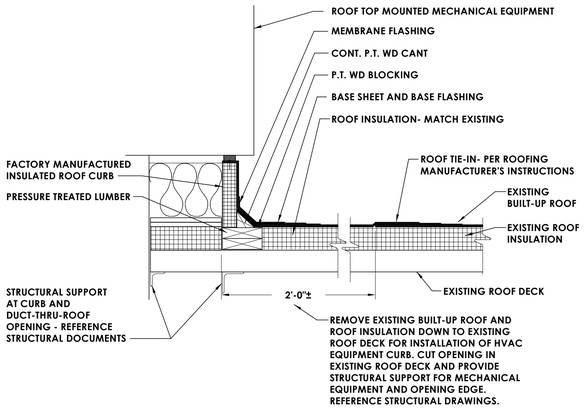
VANES FOR SQUARE THROAT ELBOWS OVER 20" WIDE

VANES FOR SQUARE THROAT ELBOWS THRU 20" WIDE

2 H801 **TYPICAL TURNING VANE DETAIL**
NOT TO SCALE

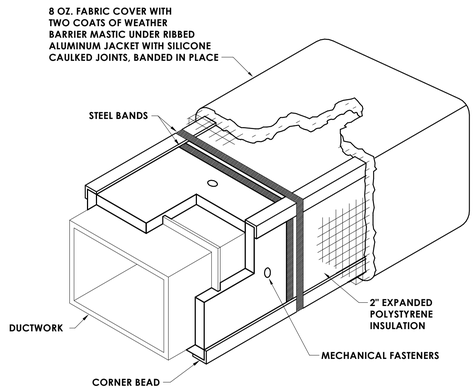


3 H801 **ACCESS DOOR DETAIL**
NOT TO SCALE

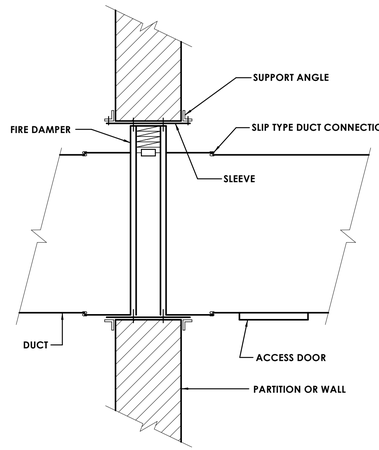


NOTE:
ALL ROOFTOP HVAC UNITS REQUIRED TO HAVE ROOFING REQUIREMENTS AS SHOWN.

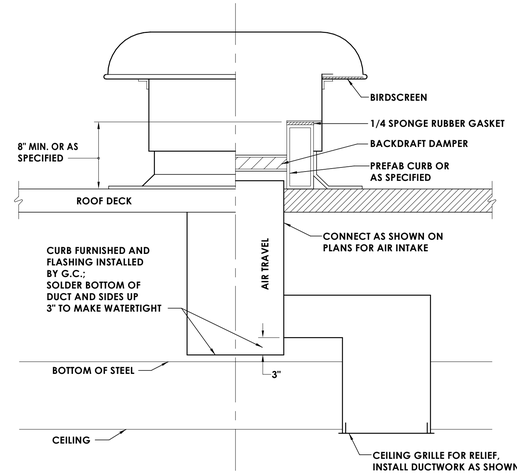
4 H801 **ROOFTOP UNIT CURB DETAIL**
NOT TO SCALE



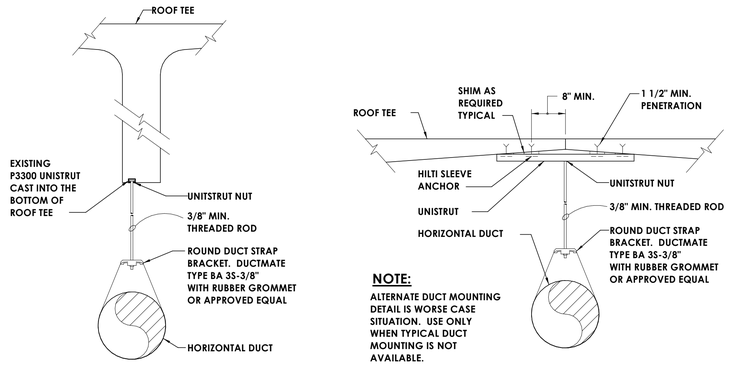
5 H801 **EXTERIOR DUCT ISTALLATION DETAIL**
NOT TO SCALE



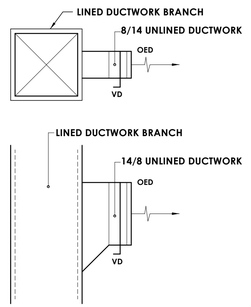
6 H801 **VERTICAL FIRE DAMPER DETAIL**
NOT TO SCALE



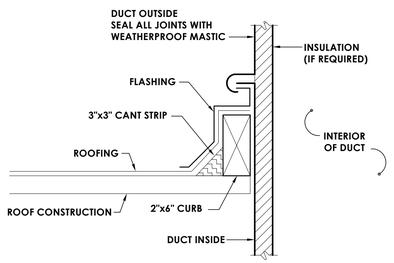
7 H801 **GRAVITY AIR INTAKE DETAIL**
NOT TO SCALE



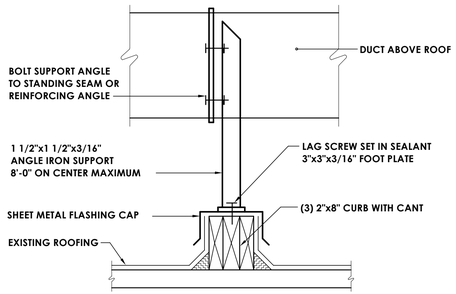
8 H801 **DUCT MOUNTING BRACKET DETAIL**
NOT TO SCALE



9 H801 **OPEN ENDED DUCT DETAIL**
NOT TO SCALE



10 H801 **DUCT THRU ROOF DETAIL**
NOT TO SCALE



NOTE:
ALL SUPPORTIVE STEEL TO BE COATED WITH ONE COAT OF PRIMER AND TWO COATS RUST INHIBITING PAINT.

11 H801 **DUCT SUPPORT CURB DETAIL**
NOT TO SCALE

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10/25/2024	As indicated

Project Status
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Drawn By	Checked By
KCM	JJM

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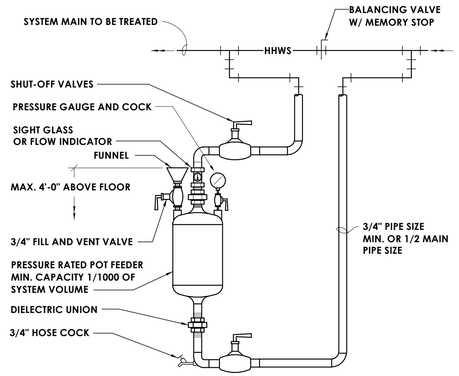
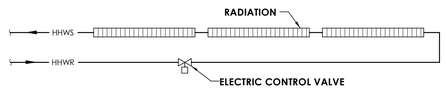


NOTE TO DESIGNER
TYPICAL 1 QUART FEEDER, USE FOR SMALL SYSTEMS.

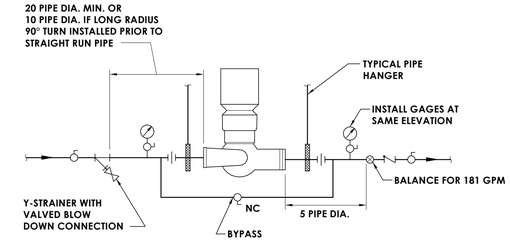
1 H802 CHEMICAL POT FEED DETAIL - HOT WATER SYSTEM

NOT TO SCALE



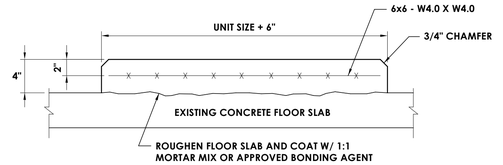
4 H802 TYPICAL FIN TUBE DETAIL

NOT TO SCALE



2 H802 INLINE PUMP DETAIL

NOT TO SCALE

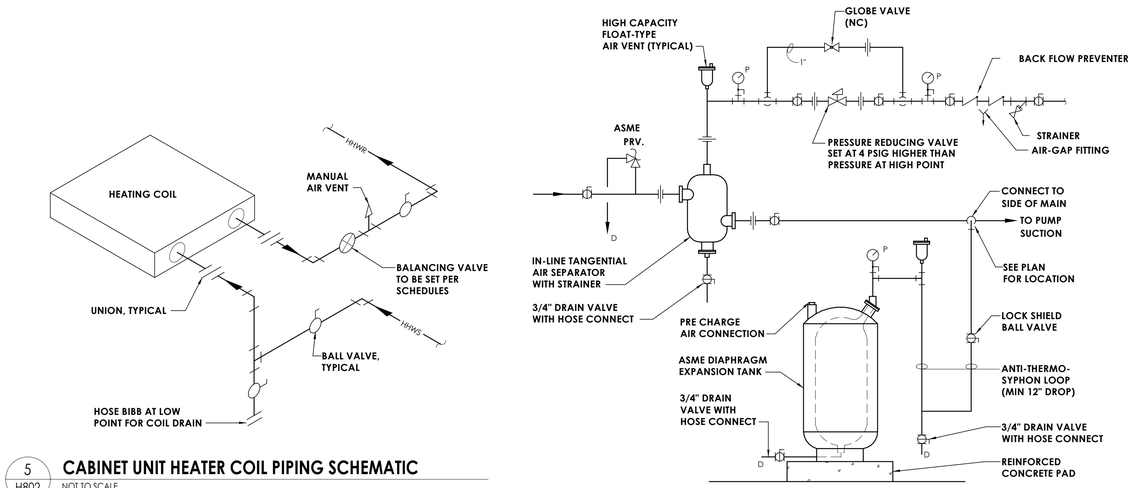


INTERIOR PAD DETAIL FOR LOCATION ON EXISTING CONCRETE FLOOR

NOTE: COORDINATE UNIT SIZE WITH EQUIPMENT SELECTED.

3 H802 EQUIPMENT HOUSE KEEPING PAD

NOT TO SCALE

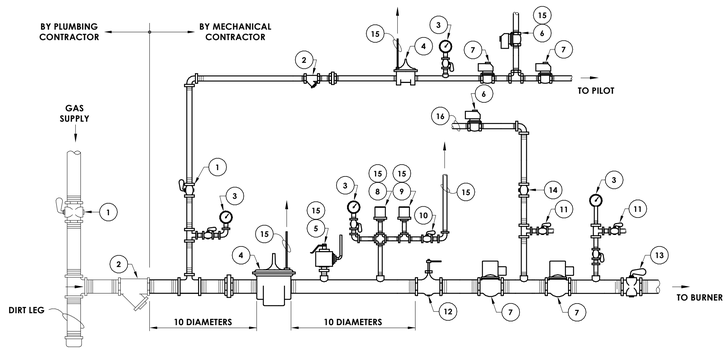


5 H802 CABINET UNIT HEATER COIL PIPING SCHEMATIC

NOT TO SCALE

6 H802 EXPANSION TANK AND MAKE-UP WATER DETAIL

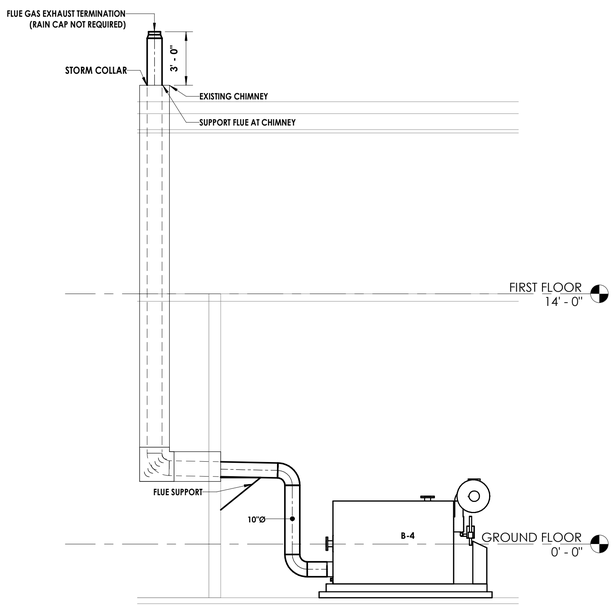
NOT TO SCALE



EQUIPMENT LIST:

1	MANUAL PLUG COCK
2	STRAINER
3	GAUGE AND COCK
4	PRESSURE REGULATOR
5	RELIEF VALVE
6	NORMALLY OPEN VENT VALVE
7	SAFETY SHUT-OFF VALVES (NORMALLY CLOSED)
8	HIGH PRESSURE SWITCH
9	LOW PRESSURE SWITCH
10	VENT COCK
11	LEAKAGE TEST COCK
12	BURNER CONTROL COCK
13	CHECKING CONTROL COCK
14	PLUG COCK, LOCKED OPEN
15	VENT TO OUTSIDE ATMOSPHERE MAY BE MANIFOLDED
16	VENT TO OUTSIDE ATMOSPHERE MAY NOT BE MANIFOLDED

BY PLUMBING CONTRACTOR



7 H802 CONDENSER BOILER FLUE TERMINATION DETAIL

1/4" = 1'-0"

GAS TRAIN VENT SIZING

FUEL LINE SIZE (INCHES)	VENT LINE SIZE (INCHES)
UP TO 1 1/2	3/4
2	1
2 1/2, 3	1 1/4
4	2
5	2
6	2 1/2
8	4

NOTES:

1. **ALL VENTS TO OUTSIDE OF BUILDING TO BE TERMINATED IN SCREENED TYPE WEATHERPROOF VENT CAP NOT LESS THAN 18" FROM ANY OPENING OR OVERHANG. PROVIDE FLASHING AS REQUIRED. ALL REQUIREMENTS OF UTILITY AND INSURANCE COMPANIES SHALL BE FOLLOWED. WHERE MORE THAN TWO 90° ELBOWS ARE REQUIRED, VENT SIZE SHALL BE INCREASED ONE SIZE.**
2. **TWO SAFETY SHUTOFF VALVES AND A NORMALLY OPEN VENT VALVE ARE REQUIRED IN PILOT LINE WHEN PILOT GAS INPUT IS 120,000BTUH AND OVER. VENT MAY BE MANIFOLDED WITH MAIN VENT VALVE VENT.**
3. **VENT FROM NORMALLY OPEN VENT VALVE MUST BE RUN INDEPENDENTLY TO OUTSIDE. OTHER VENTS MAY BE MANIFOLDED. COMMON VENT MUST BE EQUAL IN AREA TO THE AREA OF ALL VENTS CONNECTED AND RUN TO THE OUTSIDE. MINIMUM VENT SIZE 3/4", BUT NEVER LESS THAN EQUIPMENT TAPPING.**
4. **THE SECOND SAFETY SHUTOFF VALVE SHALL INCLUDE A PROOF OF CLOSURE SWITCH ON INPUTS OF 5001MBH AND OVER.**
5. **REFER TO PIPING SPECIFICATIONS FOR FITTING TYPES.**
6. **PROVIDE RPS PIPE PORTAL AND CURB SYSTEM IF TERMINATING THRU ROOF.**

8 H802 GAS TRAIN DETAIL

NOT TO SCALE

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PROFESSIONAL STAMPS

NEW YORK STATE EDUCATION STATEMENT
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SHEET INFORMATION

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VRF INDOOR UNITS

TAG	ROOM SERVED	TYPE	AIRFLOW (H/M/L) (CFM)	OUTDOOR AIRFLOW (CFM)	NOM.HEATING CAPACITY (MBH)	NOM.COOLING CAPACITY (MBH)	DIMENSIONS (W" X H" X D")	WEIGHT (LBS)	POWER (Ø/V/Hz)	MOCP	FLA	TYPICAL UNIT MFG & MODEL NO.	NOTES
SSI-1,2	208	CEILING CASSETTE	607/465/330	250	27	24	23 X 23 X 10	44	208/1/60	0.78	0.62	FUJITSU AUUA24TLAV2	1,2,3,4,5,6
SSI-3,4	206	CEILING CASSETTE	607/465/330	250	27	24	23 X 23 X 10	44	208/1/60	0.78	0.62	FUJITSU AUUA24TLAV2	1,2,3,4,5,6
SSI-5,6	204	CEILING CASSETTE	418/348/271	250	20	18	23 X 23 X 10	44	208/1/60	0.51	0.41	FUJITSU AUUA18TLAV2	1,2,3,4,5,6
SSI-7,8	202	CEILING CASSETTE	418/348/271	250	20	18	23 X 23 X 10	44	208/1/60	0.51	0.41	FUJITSU AUUA18TLAV2	1,2,3,4,5,6
SSI-9,10	200	CEILING CASSETTE	607/465/330	250	27	24	23 X 23 X 10	44	208/1/60	0.78	0.62	FUJITSU AUUA24TLAV2	1,2,3,4,5,6
SSI-11,12	211	CEILING CASSETTE	607/465/330	250	27	24	23 X 23 X 10	44	208/1/60	0.78	0.62	FUJITSU AUUA24TLAV2	1,2,3,4,5,6
SSI-13,14	209	CEILING CASSETTE	607/465/330	250	27	24	23 X 23 X 10	44	208/1/60	0.78	0.62	FUJITSU AUUA24TLAV2	1,2,3,4,5,6
SSI-15,16	207	CEILING CASSETTE	607/465/330	250	27	24	23 X 23 X 10	44	208/1/60	0.78	0.62	FUJITSU AUUA24TLAV2	1,2,3,4,5,6
SSI-17,18	205	CEILING CASSETTE	607/465/330	285	27	24	23 X 23 X 10	44	208/1/60	0.78	0.62	FUJITSU AUUA24TLAV2	1,2,3,4,5,6
SSI-19,20,21,22	324	CEILING CASSETTE	418/348/271	250	20	18	23 X 23 X 10	44	208/1/60	0.51	0.41	FUJITSU AUUA18TLAV2	1,2,3,4,5,6
SSI-23,24,25,26	320	CEILING CASSETTE	418/348/271	275	20	18	23 X 23 X 10	44	208/1/60	0.51	0.41	FUJITSU AUUA18TLAV2	1,2,3,4,5,6
SSI-27,28,29,30	316	CEILING CASSETTE	607/465/330	362.5	27	24	23 X 23 X 10	44	208/1/60	0.78	0.62	FUJITSU AUUA24TLAV2	1,2,3,4,5,6
SSI-31,32,33,34	323	CEILING CASSETTE	607/465/330	410	27	24	23 X 23 X 10	44	208/1/60	0.78	0.62	FUJITSU AUUA24TLAV2	1,2,3,4,5,6
SSI-35,36,37,38	319	CEILING CASSETTE	418/348/271	150	20	18	23 X 23 X 10	44	208/1/60	0.51	0.41	FUJITSU AUUA18TLAV2	1,2,3,4,5,6
SSI-39,40	317	CEILING CASSETTE	607/465/330	380	27	24	23 X 23 X 10	44	208/1/60	0.78	0.62	FUJITSU AUUA24TLAV2	1,2,3,4,5,6
SSI-41	312	CEILING CASSETTE	324/283/236	50	10.9	9.5	23 X 23 X 10	40	208/1/60	0.51	0.41	FUJITSU AUUA9TLAV2	1,2,3,4,5,7
SSI-42,43	310	CEILING CASSETTE	418/348/271	250	20	18	23 X 23 X 10	44	208/1/60	0.51	0.41	FUJITSU AUUA18TLAV2	1,2,3,4,5,6
SSI-44,45	308	CEILING CASSETTE	607/465/330	250	27	24	23 X 23 X 10	44	208/1/60	0.78	0.62	FUJITSU AUUA24TLAV2	1,2,3,4,5,6
SSI-46,47	306	CEILING CASSETTE	607/465/330	250	27	24	23 X 23 X 10	44	208/1/60	0.78	0.62	FUJITSU AUUA24TLAV2	1,2,3,4,5,6
SSI-48,49,50	304	CEILING CASSETTE	418/348/271	120	20	18	23 X 23 X 10	44	208/1/60	0.51	0.41	FUJITSU AUUA18TLAV2	1,2,3,4,5,6
SSI-51	300	CEILING CASSETTE	318/271/230	50	9.5	7.5	23 X 23 X 10	40	208/1/60	0.51	0.41	FUJITSU AUUA7TLAV2	1,2,3,4,5,6
SSI-52,53	315	CEILING CASSETTE	418/348/271	250	20	18	23 X 23 X 10	44	208/1/60	0.51	0.41	FUJITSU AUUA18TLAV2	1,2,3,4,5,6
SSI-54,55	309	CEILING CASSETTE	607/465/330	250	27	24	23 X 23 X 10	44	208/1/60	0.78	0.62	FUJITSU AUUA24TLAV2	1,2,3,4,5,6
SSI-56,57	307	CEILING CASSETTE	607/465/330	250	27	24	23 X 23 X 10	44	208/1/60	0.78	0.62	FUJITSU AUUA24TLAV2	1,2,3,4,5,6
SSI-58,59	305	CEILING CASSETTE	607/465/330	250	27	24	23 X 23 X 10	44	208/1/60	0.78	0.62	FUJITSU AUUA24TLAV2	1,2,3,4,5,6
SSI-60,61	303	CEILING CASSETTE	607/465/330	250	27	24	23 X 23 X 10	44	208/1/60	0.78	0.62	FUJITSU AUUA24TLAV2	1,2,3,4,5,6
SSI-62,63	301	CEILING CASSETTE	607/465/330	250	27	24	23 X 23 X 10	44	208/1/60	0.78	0.62	FUJITSU AUUA24TLAV2	1,2,3,4,5,6
SSI-64,65	426	CEILING CASSETTE	418/348/271	250	20	18	23 X 23 X 10	44	208/1/60	0.51	0.41	FUJITSU AUUA18TLAV2	1,2,3,4,5,6
SSI-66,67	424	CEILING CASSETTE	418/348/271	250	20	18	23 X 23 X 10	44	208/1/60	0.51	0.41	FUJITSU AUUA18TLAV2	1,2,3,4,5,6
SSI-68,69	422	CEILING CASSETTE	418/348/271	250	20	18	23 X 23 X 10	44	208/1/60	0.51	0.41	FUJITSU AUUA18TLAV2	1,2,3,4,5,6
SSI-70,71	420	CEILING CASSETTE	418/348/271	250	20	18	23 X 23 X 10	44	208/1/60	0.51	0.41	FUJITSU AUUA18TLAV2	1,2,3,4,5,6
SSI-72,73	418	CEILING CASSETTE	607/465/330	270	27	24	23 X 23 X 10	44	208/1/60	0.78	0.62	FUJITSU AUUA24TLAV2	1,2,3,4,5,6
SSI-74	416	COMPACT WALL	324/277/212	50	9.5	7.5	13 X 10 X 13	22	208/1/60	0.32	0.25	FUJITSU ASUA7TLAV2	1,2,3,4,5,6
SSI-75,76	423	CEILING CASSETTE	607/465/330	250	27	24	23 X 23 X 10	44	208/1/60	0.78	0.62	FUJITSU AUUA24TLAV2	1,2,3,4,5,6
SSI-77,78	421	CEILING CASSETTE	607/465/330	250	27	24	23 X 23 X 10	44	208/1/60	0.78	0.62	FUJITSU AUUA24TLAV2	1,2,3,4,5,6
SSI-79,80	419	CEILING CASSETTE	607/465/330	250	27	24	23 X 23 X 10	44	208/1/60	0.78	0.62	FUJITSU AUUA24TLAV2	1,2,3,4,5,6
SSI-81,82	417	CEILING CASSETTE	607/465/330	250	27	24	23 X 23 X 10	44	208/1/60	0.78	0.62	FUJITSU AUUA24TLAV2	1,2,3,4,5,6
SSI-83,84	415	CEILING CASSETTE	607/465/330	250	27	24	23 X 23 X 10	44	208/1/60	0.78	0.62	FUJITSU AUUA24TLAV2	1,2,3,4,5,6
SSI-85,86	413	CEILING CASSETTE	607/465/330	250	27	24	23 X 23 X 10	44	208/1/60	0.78	0.62	FUJITSU AUUA24TLAV2	1,2,3,4,5,6
SSI-87,88	414	CEILING CASSETTE	418/348/271	270	20	18	23 X 23 X 10	44	208/1/60	0.51	0.41	FUJITSU AUUA18TLAV2	1,2,3,4,5,6
SSI-89,90	412	CEILING CASSETTE	418/348/271	250	20	18	23 X 23 X 10	44	208/1/60	0.51	0.41	FUJITSU AUUA18TLAV2	1,2,3,4,5,6
SSI-91,92	410	CEILING CASSETTE	418/348/271	250	20	18	23 X 23 X 10	44	208/1/60	0.51	0.41	FUJITSU AUUA18TLAV2	1,2,3,4,5,6
SSI-93,94	408	CEILING CASSETTE	418/348/271	250	20	18	23 X 23 X 10	44	208/1/60	0.51	0.41	FUJITSU AUUA18TLAV2	1,2,3,4,5,6
SSI-95,96	406, 404	CEILING CASSETTE	401/330/259	65	15.6	14	23 X 23 X 10	43	208/1/60	0.51	0.41	FUJITSU AUUA14TLAV2	1,2,3,4,5,6
SSI-97	400	CEILING CASSETTE	318/271/230	50	9.5	7.5	23 X 23 X 10	40	208/1/60	0.51	0.41	FUJITSU AUUA7TLAV2	1,2,3,4,5,6
SSI-98,99	411	CEILING CASSETTE	607/465/330	250	27	24	23 X 23 X 10	44	208/1/60	0.78	0.62	FUJITSU AUUA24TLAV2	1,2,3,4,5,6
SSI-100,101	409	CEILING CASSETTE	607/465/330	250	27	24	23 X 23 X 10	44	208/1/60	0.78	0.62	FUJITSU AUUA24TLAV2	1,2,3,4,5,6
SSI-102,103	407	CEILING CASSETTE	607/465/330	250	27	24	23 X 23 X 10	44	208/1/60	0.78	0.62	FUJITSU AUUA24TLAV2	1,2,3,4,5,6
SSI-104,105	405	CEILING CASSETTE	607/465/330	250	27	24	23 X 23 X 10	44	208/1/60	0.78	0.62	FUJITSU AUUA24TLAV2	1,2,3,4,5,6
SSI-106,107	403	CEILING CASSETTE	607/465/330	250	27	24	23 X 23 X 10	44	208/1/60	0.78	0.62	FUJITSU AUUA24TLAV2	1,2,3,4,5,6
SSI-108,109	401	CEILING CASSETTE	607/465/330	250	27	24	23 X 23 X 10	44	208/1/60	0.78	0.62	FUJITSU AUUA24TLAV2	1,2,3,4,5,6
SSI-110,111	7	PRESSURE DUCT	1324/1030/824	250	40	36	48 X 18 X 25	108	208/1/60	2.7	2.16	FUJITSU ARUH36TLAV2	1,2,3,4,5,6
SSI-112	155	PRESSURE DUCT	1324/1030/824	975	40	36	48 X 18 X 25	108	208/1/60	2.7	2.16	FUJITSU ARUH36TLAV2	1,2,3,4,5,6
SSI-113	155	PRESSURE DUCT	1324/1030/824	600	40	36	48 X 18 X 25	108	208/1/60	2.7	2.16	FUJITSU ARUH36TLAV2	1,2,3,4,5,6
SSI-114	159	PRESSURE DUCT	1324/1030/824	625	40	36	48 X 18 X 25	108	208/1/60	2.7	2.16	FUJITSU ARUH36TLAV2	1,2,3,4,5,6
SSI-115	201	CEILING CASSETTE	401/330/259	50	15.6	14	23 X 23 X 10	43	208/1/60	0.51	0.41	FUJITSU AUUA14TLAV2	1,2,3,4,5,6
SSI-116	311	COMPACT WALL	406/330/277	-	13.5	12	13 X 10 X 13	24	208/1/60	0.42	0.33	FUJITSU ASUA12TLAV2	1,2,3,4,5,6
SSI-117	311A	COMPACT WALL	406/330/277	-	13.5	12	13 X 10 X 13	24	208/1/60	0.42	0.33	FUJITSU ASUA12TLAV2	1,2,3,4,5,6
SSI-118	312A	COMPACT WALL	265/235/212	-	4.4	4	13 X 10 X 13	23	208/1/60	0.22	0.17	FUJITSU ASUA4TLAV2	1,2,3,4,5,6
SSI-119	416A	COMPACT WALL	359/300/212	-	10.9	9.5	13 X 10 X 13	24	208/1/60	0.61	0.41	FUJITSU ASUA9TLAV2	1,2,3,4,5,6

NOTES:
1. UNIT MOUNTED AND WIRED DISCONNECT.
2. BAC NET INTERGRATION TO BMS.
3. COLOR WHITE.
4. DRAIN PAN LEVEL SENSORS.
5. CONDENSATE PUMP.
6. OUTDOOR UNIT POWERS INDOOR UNITS.

SPLIT SYSTEM OUTDOOR CONDENSING UNIT SCHEDULE

TAG	LOCATION	SERVES	NOMINAL TONS	MBH COOLING	MBH HEATING	ELECTRICAL DATA				DIMENSIONS (H X W X D)	WT (LB)	IEER	TYPICAL UNIT MFG & MODEL NO.	NOTES:
						FAN DATA		COMPRESSOR RLA	SYSTEM MCA	POWER (V/Ø/Hz)				
						MOTOR WATTS	MOTOR FLA							
ACC-1	ROOF	206, 208, 209, 211	18	216	243	740 X 2	6.5	57.9	81.6	208/3/60	73-1/4 X 52-3/8 X 35-5/8 73-1/4 X 40-3/16 X 35-3/8	1329	20	FUJITSU AOUA216ULBVG5	1,2
ACC-2	ROOF	159, 200, 201, 202, 204, 205, 207	28	336	378	740 X 4	13.6	80.4	119.6	208/3/60	73-1/4 X 66-9/16 X 35-5/8 73-1/4 X 66-9/16 X 35-5/8	2082	22.4	FUJITSU AOUA336ULBVG5	1,2
ACC-3	ROOF	320, 323, 324	22	264	297	740 X 3	10	63.7	93.7	208/3/60	73-1/4 X 66-9/16 X 35-5/8 73-1/4 X 52-3/16 X 35-3/8	1735	-	FUJITSU AOUA264ULBVG5	1,2
ACC-4	ROOF	316, 317, 319	24	288	324	740 X 4	13.6	64.4	99.6	208/3/60	73-1/4 X 66-9/16 X 35-5/8 73-1/4 X 66-9/16 X 35-5/8	2082	22.4	FUJITSU AOUA288ULBVG5	1,2
ACC-5	ROOF	307, 308, 309, 310, 312, 312A, 315	22	264	297	740 X 3	10	63.7	93.7	208/3/60	73-1/4 X 66-9/16 X 35-5/8 73-1/4 X 52-3/16 X 35-3/8	1735	-	FUJITSU AOUA264ULBVG5	1,2
ACC-6	ROOF	300, 301, 303, 304, 305, 306, 311, 311A	28	336	378	740 X 4	13.6	80.4	119.6	208/3/60	73-1/4 X 66-9/16 X 35-5/8 73-1/4 X 66-9/16 X 35-5/8	2082	22.4	FUJITSU AOUA336ULBVG5	1,2
ACC-7	ROOF	421, 423, 424, 426	16	192	216	740 X 2	6.8	49.2	71	208/3/60	74 X 67 X 36	1041	24.6	FUJITSU AOUA192ULBV5	1,2
ACC-8	ROOF	417, 419, 420, 422	16	192	216	740 X 2	6.8	49.2	71	208/3/60	74 X 67 X 36	1041	24.6	FUJITSU AOUA192ULBV5	1,2
ACC-9	ROOF	413, 415, 416, 416A, 418	18	216	243	740 X 2	6.5	57.9	81.6	208/3/60	73-1/4 X 52-3/8 X 35-5/8 73-1/4 X 40-3/16 X 35-3/8	1329	20	FUJITSU AOUA216ULBVG5	1,2
ACC-10	ROOF	409, 411, 412, 414	16	192	216	740 X 2	6.8	49.2	71	208/3/60	74 X 67 X 36	1041	24.6	FUJITSU AOUA192ULBV5	1,2
ACC-11	ROOF	405, 407, 408, 410	16	192	216	740 X 2	6.8	49.2	71	208/3/60	74 X 67 X 36	1041	24.6	FUJITSU AOUA192ULBV5	1,2
ACC-12	ROOF	400, 401, 403, 404, 406	16	192	216	740 X 2	6.8	49.2	71	208/3/60	74 X 67 X 36	1041	24.6	FUJITSU AOUA192ULBV5	1,2

NOTES: 1. FACTORY MOUNTED DISCONNECT
2. LOW AMBIENT TEMPERATURE KIT

OUTDOOR AIR VENTILATION

SPACE NAME		HVAC SYSTEM	SPACE MAXIMUM SUPPLY (CFM)	FLOOR AREA (SQ FT)	OCCUPANT DENSITY (PERSON/SQ FT)	TOTAL OCCUPANCY FOR VENTILATION (PEOPLE/1000 SQ FT)	PEOPLE OUTDOOR AIRFLOW RATE (CFM/PERSON)	AREA OUTDOOR AIRFLOW RATE (CFM/SQ FT)	EXHAUST AIRFLOW RATE (CFM/SQ FT)	AIR DISTRIBION EFFECTIVENESS	BREATHING ZONE OUTDOOR AIR (CFM)	ZONE OUTDOOR AIRFLOW (CFM)	DESIGN CFM
ROOM #	ROOM NAME		Vpz	Az	a		Rp	Ra		Ez	Vbz	Voz	
7	CORRIDOR	SSI-110,111	4,500	6176 SF	-	0	-	0.06	-	0.8	371	463	500
124	FITNESS	SSI-120,121,122	1,500	2363 SF	10	24	20.0	0.06	-	0.8	622	777	780
124A	OFFICE	SSI-123	150	133 SF	5	1	5.0	0.06	-	0.8	13	16	50
155	CORRIDOR	SSI-112,113	6,275	3975 SF	-	0	-	0.06	-	0.8	239	298	300
159	CORRIDOR	SSI-114	1,797	1286 SF	-	0	-	0.06	-	0.8	77	96	100
200	CLASSROOM	SSI-9,10	2,006	748 SF	35	27	10.0	0.12	-	0.8	360	450	500
201	IT	SSI-115	833	128 SF	-	0	-	-	-	0.8	0	0	50
202	CLASSROOM	SSI-7,8	1,845	725 SF	35	26	10.0	0.12	-	0.8	347	434	500
204	CLASSROOM	SSI-5,6	1,823	708 SF	35	25	10.0	0.12	-	0.8	335	419	500
205	CLASSROOM	SSI-17,18	2,671	962 SF	35	34	10.0	0.12	-	0.8	455	569	570
206	CLASSROOM	SSI-3,4	2,021	726 SF	35	26	10.0	0.12	-	0.8	347	434	500
207	CLASSROOM	SSI-15,16	2,175	719 SF	35	26	10.0	0.12	-	0.8	346	433	500
208	CLASSROOM	SSI-1,2	1,998	747 SF	35	27	10.0	0.12	-	0.8	360	450	500
209	CLASSROOM	SSI-13,14	2,160	719 SF	35	26	10.0	0.12	-	0.8	346	433	500
211	CLASSROOM	SSI-11,12	2,107	727 SF	35	26	10.0	0.12	-	0.8	347	434	500
300	OFFICE	SSI-51	481	168 SF	5	1	5.0	0.06	-	0.8	15	19	50
301	CLASSROOM	SSI-62,63	1,999	782 SF	35	28	10.0	0.12	-	0.8	374	467	500
303	CLASSROOM	SSI-60,61	2,134	782 SF	35	28	10.0	0.12	-	0.8	374	467	500
304	FACULTY LOUNGE	SSI-48,49,50	3,154	931 SF	30	28	5.0	0.06	-	0.8	196	245	360
305	CLASSROOM	SSI-58,59	2,169	782 SF	35	28	10.0	0.12	-	0.8	374	467	500
306	CLASSROOM	SSI-46,47	2,020	770 SF	35	27	10.0	0.12	-	0.8	362	453	500
307	CLASSROOM	SSI-56,57	2,150	782 SF	35	28	10.0	0.12	-	0.8	374	467	500
308	CLASSROOM	SSI-44,45	1,989	770 SF	25	20	10.0	0.12	-	0.8	292	366	500
309	CLASSROOM	SSI-54,55	2,114	782 SF	35	28	10.0	0.12	-	0.8	374	467	500
310	CLASSROOM	SSI-42,43	1,945	770 SF	35	27	10.0	0.12	-	0.8	362	453	500
312	OFFICE	SSI-41	497	300 SF	5	2	5.0	0.06	-	0.8	28	35	50
312A	IT	SSI-118	259	44 SF	-	0	-	-	-	0.8	0	0	50
315	CLASSROOM	SSI-52,53	1,900	731 SF	35	26	10.0	0.12	-	0.8	348	435	500
316	SCIENCE LAB	SSI-27,28,29,30	4,177	1801 SF	25	46	10.0	0.18	1.00	0.8	784	1441	1450
317	CLASSROOM	SSI-39,40	2,424	942 SF	20	19	10.0	0.18	0.50	0.8	360	754	760
319	COMPUTER ROOM	SSI-35,36,37,38	3,178	1260 SF	25	32	10.0	0.12	-	0.8	471	589	600
320	SCIENCE LAB	SSI-23,24,25,26	3,425	1331 SF	25	34	10.0	0.18	1.00	0.8	580	1065	1100
321	STORAGE	ERU-3	100	258 SF	-	0	-	0.12	-	0.8	31	39	200
02-10	STORAGE	ERU-3	100	253 SF	-	0	-	0.12	-	0.8	30	38	200
323	SCIENCE LAB	SSI-31,32,33,34	4,705	2006 SF	25	51	10.0	0.18	1.00	0.8	871	1605	1640
324	SCIENCE LAB	SSI-19,20,21,22	3,171	1227 SF	25	31	10.0	0.18	1.00	0.8	531	982	1000
400	OFFICE	SSI-97	244	109 SF	5	1	5.0	0.06	-	0.8	12	14	50
401	CLASSROOM	SSI-108,109	2,134	776 SF	35	28	10.0	0.12	-	0.8	373	466	500
403	CLASSROOM	SSI-106,107	2,187	776 SF	35	28	10.0	0.12	-	0.8	373	466	500
404	OFFICE	SSI-96	1,084	587 SF	5	3	5.0	0.06	-	0.8	50	63	65
405	CLASSROOM	SSI-104,105	2,206	776 SF	35	28	10.0	0.12	-	0.8	373	466	500
406	OFFICE	SSI-95	1,084	587 SF	5	3	5.0	0.06	-	0.8	50	63	65
407	CLASSROOM	SSI-102,103	2,198	776 SF	35	28	10.0	0.12	-	0.8	373	466	500
408	CLASSROOM	SSI-93,94	1,928	776 SF	35	28	10.0	0.12	-	0.8	373	466	500
409	CLASSROOM	SSI-100,101	2,213	776 SF	35	28	10.0	0.12	-	0.8	373	466	500
410	CLASSROOM	SSI-91,92	1,972	776 SF	35	28	10.0	0.12	-	0.8	373	466	500
411	CLASSROOM	SSI-98,99	2,210	776 SF	35	28	10.0	0.12	-	0.8	373	466	500
412	CLASSROOM	SSI-89,90	1,983	776 SF	35	28	10.0	0.12	-	0.8	373	466	500
413	CLASSROOM	SSI-85,86	2,172	781 SF	35	28	10.0	0.12	-	0.8	374	467	500
414	CLASSROOM	SSI-87,88	1,953	887 SF	35	32	10.0	0.12	-	0.8	426	533	540
415	CLASSROOM	SSI-83,84	2,193	781 SF	35	28	10.0	0.12	-	0.8	374	467	500
416	OFFICE	SSI-74	319	135 SF	5	1	5.0	0.06	-	0.8	13	16	50
416A	IT	SSI-119	286	41 SF	-	0	-	-	-	0.8	0	0	50
417	CLASSROOM	SSI-81,82	2,225	804 SF	35	29	10.0	0.12	-	0.8	386	483	500
418	CLASSROOM	SSI-72,73	2,194	903 SF	35	32	10.0	0.12	-	0.8	428	535	540
419	CLASSROOM	SSI-79,80	2,214	804 SF	35	29	10.0	0.12	-	0.8	386	483	500
420	CLASSROOM	SSI-70,71	1,992	798 SF	35	28	10.0	0.12	-	0.8	376	470	500
421	CLASSROOM	SSI-77,78	2,226	790 SF	35	28	10.0	0.12	-	0.8	375	469	500
422	CLASSROOM	SSI-68,69	2,007	804 SF	35	29	10.0	0.12	-	0.8	386	483	500
423	CLASSROOM	SSI-75,76	2,181	798 SF	35	28	10.0	0.12	-	0.8	376	470	500
424	CLASSROOM	SSI-66,67	2,012	804 SF	35	29	10.0	0.12	-	0.8	386	483	500
426	CLASSROOM	SSI-64,65	1,981	815 SF	35	29	10.0	0.12	-	0.8	388	485	500
02-107	CORRIDOR	CUH-2	495	1164 SF	-	0	-	0.06	-	0.8	70	87	100

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SOUTH ORANGETOWN Central School District
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Essential Infrastructure for Student Health, Safety and Success

PROJECT INFORMATION

Project Number
14457.20

Client Name
SOUTH ORANGETOWN CENTRAL SCHOOL DISTRICT

Project Name
PHASE 2: 2022 BOND

TAPPAN ZEE HIGH SCHOOL

Building Address
160 VAN WYCK RD., BLAUVELT, NY 10913

SED # 50-03-01-06-0-006-033

Registration Expiration Dates
Lauren Tanio 09/30/26
Anthony Marchetti 05/31/27
Dave Hart 02/28/25
Jennifer Wengender 06/30/27

PROJECT ISSUE & REVISION SCHEDULE

#	Date	Description

PROFESSIONAL STAMPS

NEW YORK STATE EDUCATION STATEMENT
IT IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND THE COMMISSIONER'S REGULATIONS FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED ARCHITECT, ENGINEER OR LAND SURVEYOR, TO ALTER ANY ITEM IN ANY WAY. IF AN ITEM BEARING THE SEAL OF AN ARCHITECT, ENGINEER OR SURVEYOR IS ALTERED, THE ALTERING PARTY SHALL AFFIX TO THE ITEM THEIR SEAL AND THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE AND THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

SHEET INFORMATION

Issued
10/25/2024

Scale
NOT TO SCALE

Project Status
BID DOCUMENTS

Drawn By
KCM

Checked By
JJM

Drawing Title
HVAC SCHEDULES

Drawing Number
TZHS
H900

10/24/2024 12:33:14 PM <project location>\ REVIT PROJECT FILES ON BIM 360

ENERGY RECOVERY UNIT

TAG	LOCATION	AREA SERVED	SA/OA (CFM)	EA (CFM)	RA (CFM)	SUPPLY FAN					EXHAUST FAN					HEATING TYPE	FROST CONTROL	OPERATING WEIGHT (LBS)	FILTERS	UNIT ELECTRICAL REQUIREMENTS		
						FAN TYPE	E.S.P. (IN. WC)	RPM	BHP	HP	FAN TYPE	E.S.P. (IN. WC)	RPM	BHP	HP					V/Ø/HZ	FLA	MCA
ERU-1	ROOF	CLASSROOMS	2000	2000	-	PLENUM	3.05	1812	1.62	2	PLENUM	1.43	1559	0.77	2	ELECTRIC	YES	1573	2" PRE-FILTER/4" MERV 13	208/3/60	125	152
ERU-2	ROOF	CLASSROOMS	3245	3245	-	PLENUM	2.57	1143	2.4	3	PLENUM	1.17	969	1.25	2	ELECTRIC	YES	3501	2" PRE-FILTER/4" MERV 13	208/3/60	186	191
ERU-3	ROOF	SCIENCE LABS	2550	2750	-	PLENUM	3.42	2057	2.31	3	PLENUM	1.5	1832	1.22	2	ELECTRIC	YES	1721	2" PRE-FILTER/4" MERV 13	208/3/60	179	218
ERU-4	ROOF	CLASSROOMS	1960	1960	-	PLENUM	3.01	1794	1.58	2	PLENUM	1.41	1541	0.75	2	ELECTRIC	YES	1561	2" PRE-FILTER/4" MERV 13	208/3/60	125	152
ERU-5	ROOF	CLASSROOMS	2550	2550	-	PLENUM	3.4	2037	2.25	3	PLENUM	1.48	1753	1.08	2	ELECTRIC	YES	1721	2" PRE-FILTER/4" MERV 13	208/3/60	179	218
ERU-6	ROOF	CLASSROOMS	3285	3285	-	PLENUM	2.59	1150	2.45	3	PLENUM	1.18	976	1.28	2	ELECTRIC	YES	3496	2" PRE-FILTER/4" MERV 13	208/3/60	145	181
ERU-7	ROOF	CLASSROOMS	2000	2000	-	PLENUM	3.05	1812	1.62	2	PLENUM	1.43	1559	0.77	2	ELECTRIC	YES	1573	2" PRE-FILTER/4" MERV 13	208/3/60	125	152
ERU-8	ROOF	CLASSROOMS	2000	2000	-	PLENUM	3.05	1812	1.62	2	PLENUM	1.43	1559	0.77	2	ELECTRIC	YES	1573	2" PRE-FILTER/4" MERV 13	208/3/60	125	152
ERU-9	ROOF	CLASSROOMS	1840	1840	-	PLENUM	2.91	1744	1.44	2	PLENUM	1.35	1487	0.67	1	ELECTRIC	YES	1560	2" PRE-FILTER/4" MERV 13	208/3/60	101	123
ERU-10	ROOF	CLASSROOMS	2040	2040	-	PLENUM	3.07	1827	1.66	2	PLENUM	1.43	1569	0.79	1	ELECTRIC	YES	1560	2" PRE-FILTER/4" MERV 13	208/3/60	138	172
ERU-11	ROOF	CLASSROOMS	2000	2000	-	PLENUM	3.05	1812	1.62	2	PLENUM	1.43	1559	0.77	2	ELECTRIC	YES	1573	2" PRE-FILTER/4" MERV 13	208/3/60	125	152
ERU-12	ROOF	CLASSROOMS	1430	1430	-	PLENUM	2.54	2036	1.02	2	PLENUM	1.15	1319	0.45	1	ELECTRIC	YES	1547	2" PRE-FILTER/4" MERV 13	208/3/60	81	97
ERU-14	ROOF	SCIENCE LABS	2840	3040	-	PLENUM	3.63	2190	2.75	3	PLENUM	2.03	1999	1.62	2	ELECTRIC	YES	1721	2" PRE-FILTER/4" MERV 13	208/3/60	85	89

ENERGY RECOVERY PERFORMANCE SCHEDULE

TAG	WINTER CONDITIONS									SUMMER CONDITIONS									TYPICAL UNIT MFG & MODEL NO.	NOTES:
	WHEEL ENTERING CONDITIONS				WHEEL LEAVING CONDITIONS				EFFECTIVENESS @ WINTER DESIGN	WHEEL ENTERING CONDITIONS				WHEEL LEAVING CONDITIONS				EFFECTIVENESS @ SUMMER DESIGN		
	OUTSIDE AIR		RETURN AIR		SUPPLY AIR		EXHAUST AIR			OUTSIDE AIR		RETURN AIR		SUPPLY AIR		EXHAUST AIR				
	DB (°F)	WB (°F)	DB (°F)	WB (°F)	DB (°F)	WB (°F)	DB (°F)	WB (°F)	TOTAL %	DB (°F)	WB (°F)	DB (°F)	WB (°F)	DB (°F)	WB (°F)	DB (°F)	WB (°F)	TOTAL %		
ERU-1	-7	-8	68	50	40.4	32.9	18.4	16.8	64.8	90	71	75	62	80	65.4	84.8	67.9	63.8	AAON RNA-007-A-A-8-GJA0A-A05ND	1,2,3,4
ERU-2	-7	-8	68	50	50.1	39.3	9.6	9.1	76.6	90	71	75	62	78.2	64.3	86.6	68.9	75.2	AAON RNA-011-C-A-8-GJA0C-B04NC	1,2,3,4
ERU-3	-7	-8	68	50	30.2	25.4	31.6	27	64.8	90	71	75	62.5	82.2	66.9	82.2	66.7	63.9	AAON RNA-010-A-A-8-GJB0A-A06NF	1,2,3,4
ERU-4	-7	-8	68	50	40.8	33.2	18.1	16.5	65.3	90	71	75	62.5	79.9	65.6	84.9	68.1	64.4	AAON RNA-006-A-A-8-GJA0A-A05ND	1,2,3,4
ERU-5	-7	-8	68	50	30.9	25.9	28.8	25	64.8	90	71	75	62.5	82	66.8	82.7	67	63.9	AAON RNA-010-A-A-8-GJB0A-A06NF	1,2,3,4
ERU-6	-7	-8	68	50	49.9	39.2	9.7	9.3	76.4	90	71	75	62	78.2	64.3	86.6	68.9	75.1	AAON RNA-011-C-A-8-GJA0C-B03NC	1,2,3,4
ERU-7	-7	-8	68	50	40.4	32.9	18.4	16.8	64.8	90	71	75	62	80	65.4	84.8	67.9	63.8	AAON RNA-007-A-A-8-GJA0A-A05ND	1,2,3,4
ERU-8	-7	-8	68	50	40.4	32.9	18.4	16.8	64.8	90	71	75	62	80	65.4	84.8	67.9	63.8	AAON RNA-007-A-A-8-GJA0A-A05ND	1,2,3,4
ERU-9	-7	-8	68	50	41.9	33.9	17	15.6	66.7	90	71	75	62	79.7	65.2	85.1	68.1	65.7	AAON RNA-007-A-A-8-GJA0A-A04NC	1,2,3,4
ERU-10	-7	-8	68	50	39.5	31.7	19.3	17.6	64.8	90	71	75	62	80.2	65.5	84.6	67.8	63.8	AAON RNA-077-A-A-8-GJA0A-A06ND	1,2,3,4
ERU-11	-7	-8	68	50	40.4	32.9	18.4	16.8	64.8	90	71	75	62	80	65.4	84.8	67.9	63.8	AAON RNA-007-A-A-8-GJA0A-A05ND	1,2,3,4
ERU-12	-7	-8	68	50	45.7	36.5	13.3	12.4	71.7	90	71	75	62	79	64.8	85.9	68.5	70.6	AAON RNA-006-A-A-8-GJA0A-A03NB	1,2,3,4
ERU-14	-7	-8	70	55	26.7	25.5	34.2	31.6	64.2	90	71	75	62.5	83.1	67.4	82	66.6	63.5	AAON RNA-010-A-A-3-GJB0A-A06NE	1,2,3,4

NOTES:
1. FACTORY MOUNTED AND WIRED DISCONNECT.
2. FRESH AIR AND EXHAUST DAMPERS.
3. TERMINAL STRIP FOR BMS CONTROL OF FAN AND DAMPERS.
4. DIRTY FILTER SENSORS.

HEAT PUMP PERFORMANCE SCHEDULE

TAG	TYPE	FINS PER INCH	ROWS	FACE VEL	COIL PD	REF.	COMP QTY	COOLING				REHEAT		HEATING				
								TOTAL CAPACITY (MBH)	SENSIBLE (MBH)	EAT(F) DB/WB	COIL LAT(F) DB/WB	CAPACITY (MBH)	LAT(F) DB/WB	OAT (°F)	RAT (°F)	EAT (°F)	TOTAL CAPACITY (MBH)	INPUT (kW)
ERU-1	AIR TO AIR	14	4	235.1	0.17	454b	1	77.7	59.6	80/65.4	52.2/51.8	48.8	75.0/60.7	-7	68	40.4	128.3	37.6
ERU-2	AIR TO AIR	14	4	222.5	0.15	454b	2	121.6	93.6	78.2/64.3	51.3/51.0	73.1	72.3/59.4	-7	68	50.1	205.1	60.1
ERU-3	AIR TO AIR	14	6	291.4	0.37	454b	1	116.9	84.6	82.2/66.9	51.0/51.9	65	75.0/60.4	-7	68	30.2	153.9	45.1
ERU-4	AIR TO AIR	14	4	230.4	0.15	454b	1	70.1	55	79.9/65.6	53.7/53.3	44.6	75.0/61.5	-7	68	40.8	128.3	37.6
ERU-5	AIR TO AIR	14	6	285.7	0.36	454b	1	116.1	83.6	82.0/66.8	50.6/50.5	64.7	75.0/60.3	-7	68	30.9	153.9	45.1
ERU-6	AIR TO AIR	14	4	225.3	0.15	454b	2	121.9	94.2	78.2/64.3	51.5/51.1	73.3	72.3/59.5	-7	68	49.9	153.9	45.1
ERU-7	AIR TO AIR	14	4	235.1	0.17	454b	1	77.7	59.6	80/65.4	52.2/51.8	48.8	75.0/60.7	-7	68	40.4	128.3	37.6
ERU-8	AIR TO AIR	14	4	235.1	0.17	454b	1	77.7	59.6	80/65.4	52.2/51.8	48.8	75.0/60.7	-7	68	40.4	128.3	37.6
ERU-9	AIR TO AIR	14	4	216.3	0.15	454b	1	75.9	56.7	79.7/65.2	50.9/50.6	47.3	75.0/60.2	-7	68	41.9	102.4	30
ERU-10	AIR TO AIR	14	4	239.8	0.17	454b	1	78.2	60.4	80.2/65.5	52.5/52.1	48.9	75.0/60.9	-7	68	39.5	153.9	45.1
ERU-11	AIR TO AIR	14	4	235.1	0.17	454b	1	77.7	59.6	80/65.4	52.2/51.8	48.8	75.0/60.7	-7	68	40.4	128.3	37.6
ERU-12	AIR TO AIR	14	4	168.1	0.1	454b	1	64.1	46.3	79.0/64.8	48.8/48.6	40.1	75.0/59.3	-7	68	45.7	76.8	22.5
ERU-14	AIR TO AIR	14	6	324.6	0.42	454b	1	120.9	90.9	83.1/67.4	53.0/52.9	66.3	75.0/61.4	-7	70	26.7	204.7	60

MAXIMUM SOUND POWER (Dd RE:10^{-12} WATTS)

TAG	SOUND SOURCE	OCTAVE BAND AND CENTER FREQUENCY (HZ)							
		1	2	3	4	5	6	7	8
		62.5	125	250	500	1000	2000	4000	8000
ERU-1	DISC.	85	83	86	82	74	72	69	64
	INLET	81	80	77	71	69	66	64	59
ERU-2	DISC.	85	85	86	86	83	84	82	78
	INLET	81	82	75	68	70	67	61	55
ERU-3	DISC.	87	86	88	85	78	75	72	67
	INLET	83	83	80	75	73	71	67	63
ERU-4	DISC.	85	83	86	82	73	71	68	63
	INLET	81	80	77	71	69	66	62	58
ERU-5	DISC.	87	86	88	85	77	74	72	67
	INLET	83	83	79	74	71	69	67	62
ERU-6	DISC.	85	85	86	86	83	84	82	78
	INLET	81	82	76	68	70	67	61	55
ERU-7	DISC.	85	83	86	82	74	72	69	64
	INLET	81	80	77	71	69	66	64	59
ERU-8	DISC.	85	83	86	82	74	72	69	64
	INLET	81	80	77	71	69	66	64	59
ERU-9	DISC.	84	82	85	81	73	71	68	62
	INLET	80	79	77	70	67	65	62	58
ERU-10	DISC.	85	83	86	82	75	72	69	64
	INLET	81	81	77	71	69	66	64	60
ERU-11	DISC.	85	83	86	82	74	72	69	64
	INLET	81	80	77	71	69	66	64	59
ERU-12	DISC.	80	79	81	79	71	69	65	60
	INLET	78	76	72	66	64	62	59	55
ERU-14	DISC.	88	87	89	87	80	76	74	69
	INLET	85	85	81	78	75	72	70	66

REGISTERS, GRILLES, AND DIFFUSERS

TAG	APPLICATION	MATERIAL	TYPE	FINISH	DESIGN EQUIP.	NOTES:
D-1	SUPPLY	STEEL	CEILNG GRILLE	WHITE	PRICE 510	1
D-2	SUPPLY	STEEL	WALLNG GRILLE	WHITE	PRICE 510	1
R-1	RETURN/EA	STEEL	LAY-IN	WHITE	PRICE 80	-
R-2	RETURN/EA	STEEL	WALL GRILLE	WHITE	PRICE 90	2
R-3	RETURN/EA	STEEL	CEILING GRILLE	WHITE	PRICE 535	1

NOTES:
1. SINGLE DEFLECTION, BLADES PARALLEL TO LENGTH.
2. INSULATED BACK PAN.

VRF BRANCH SELECTOR UNITS

TAG	NUMBER OF BRANCHES AVAILABLE	NUMBER OF BRANCHES USED	MAX TOTAL CAPACITY (MBH)	MAX BRANCH CAPACITY (MBH)	CONNECTED TOTAL HEATING CAPACITY (MBH)	CONNECTED TOTAL COOLING CAPACITY (MBH)	DIMENSIONS (H × W × D)	WEIGHT (LBS.)	POWER (V/Ø/HZ)	POWER (WATTS)	TYPICAL UNIT MFG & MODEL NO.
RBU-1	8	8	245	27	216	192	11-3/4 X 26 X 24-5/16	110	208/1/60	226	FUJITSU UTP-RU08DH
RBU-2	12	11	324	27	258	244	11-3/4 X 39 X 24-5/16	159	208/1/60	339	FUJITSU UTP-RU12DH
RBU-3	1	1	60	60	40	72	7-13/16 X 11-3/4 X 10-9/16	24	208/1/60	28	FUJITSU UTP-RU01EH
RBU-4	8	8	245	27	149	147	11-3/4 X 26 X 24-5/16	110	208/1/60	226	FUJITSU UTP-RU08DH
RBU-5	4	4	191	60	108	96	10-1/4 X 25-7/8 X 16-7/8	88	208/1/60	110	FUJITSU UTP-RU04EH
RBU-6	12	12	324	27	286	243	11-3/4 X 39 X 24-5/16	159	208/1/60	339	FUJITSU UTP-RU12DH
RBU-7	4	3	191	60	67	84	10-1/4 X 25-7/8 X 16-7/8	88	208/1/60	110	FUJITSU UTP-RU04EH
RBU-8	12	12	324	27	268	120	11-3/4 X 39 X 24-5/16	159	208/1/60	339	FUJITSU UTP-RU12DH
RBU-9	12	10	324	27	242	132	11-3/4 X 39 X 24-5/16	159	208/1/60	339	FUJITSU UTP-RU12DH
RBU-10	1	1	60	60	40	36	7-13/16 X 11-3/4 X 10-9/16	24	208/1/60	28	FUJITSU UTP-RU01EH
RBU-11	8	8	245	27	188	168	11-3/4 X 26 X 24-5/16	110	208/1/60	226	FUJITSU UTP-RU08DH
RBU-12	8	8	245	27	188	168	11-3/4 X 26 X 24-5/16	110	208/1/60	226	FUJITSU UTP-RU08DH
RBU-13	8	8	245	27	188	168	11-3/4 X 26 X 24-5/16	110	208/1/60	226	FUJITSU UTP-RU08DH
RBU-14	12	8	324	27	189	175	11-3/4 X 39 X 24-5/16	159	208/1/60	339	FUJITSU UTP-RU12DH
RBU-15	8	8	245	27	188	168	11-3/4 X 26 X 24-5/16	110	208/1/60	226	FUJITSU UTP-RU08DH
RBU-16	12	8	324	27	172	159	11-3/4 X 39 X 24-5/16	159	208/1/60	339	FUJITSU UTP-RU12DH

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NY ENGINEERING FIRM CERTIFICATE #0021419

SOUTH ORANGETOWN Central School District
Capital Improvements Bond
Essential Infrastructure for Student Health, Safety and Success

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Project Name
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PROJECT ISSUE & REVISION SCHEDULE

#	Date	Description

PROFESSIONAL STAMPS

NEW YORK STATE EDUCATION STATEMENT

IT IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND THE COMMISSIONER'S REGULATIONS FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED ARCHITECT, ENGINEER OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE SEAL OF AN ARCHITECT, ENGINEER OR SURVEYOR IS ALTERED, THE ALTERING PARTY SHALL AFFIX TO THE ITEM THEIR SEAL AND THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE AND THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

SHEET INFORMATION

Issued
10/25/2024

Scale
NOT TO SCALE

Project Status
BID DOCUMENTS

Drawn By
KCM

Checked By
JJM

Drawing Title
HVAC SCHEDULES

Drawing Number
TZHS
H901

10/24/2024 12:33:29 PM <project location>:\REVIT PROJECT FILES ON BIM 360

FIN TUBE SCHEDULE

TAG	LOCATION	TUBE SIZE (IN)	FIN SIZE H X W (IN)	FIN TYPE	TIERS	BTUH/LF	ACTIVE LENGTH (FT)	HOT WATER			ENCLOSURE					TYPICAL UNIT MFG & MODEL NO.	NOTES:
								FLOW (GPM)	BTUH	AWT (°F)	H (IN.)	D (IN.)	MOUNT HEIGHT (IN)	APPROX LENGTH (FT)	ENCLOSURE STYLE		
FT-1	208	1	3-5/8 X 4-1/4	Cu/AL	3-6 CL	1200	11	1.056	13200	140	30	5	21 3/8	12	BARE ELEMENT	STERLING JVB-B-C433	1,2
FT-2	208	1	3-5/8 X 4-1/4	Cu/AL	3-6 CL	1200	11	1.056	13200	140	30	5	21 3/8	12	BARE ELEMENT	STERLING JVB-B-C433	1,2
FT-3	206	1	3-5/8 X 4-1/4	Cu/AL	3-6 CL	1200	10.75	1.032	12900	140	30	5	21 3/8	12	BARE ELEMENT	STERLING JVB-B-C433	1,2
FT-4	206	1	3-5/8 X 4-1/4	Cu/AL	3-6 CL	1200	10.75	1.032	12900	140	30	5	21 3/8	12	BARE ELEMENT	STERLING JVB-B-C433	1,2
FT-5	204	1	3-5/8 X 4-1/4	Cu/AL	3-6 CL	1200	10.5	1.008	12600	140	30	5	21 3/8	11.5	BARE ELEMENT	STERLING JVB-B-C433	1,2
FT-6	204	1	3-5/8 X 4-1/4	Cu/AL	3-6 CL	1200	10.5	1.008	12600	140	30	5	21 3/8	11.5	BARE ELEMENT	STERLING JVB-B-C433	1,2
FT-7	202	1	3-5/8 X 4-1/4	Cu/AL	3-6 CL	1200	10.583	1.016	12700	140	30	5	21 3/8	12	BARE ELEMENT	STERLING JVB-B-C433	1,2
FT-8	202	1	3-5/8 X 4-1/4	Cu/AL	3-6 CL	1200	10.583	1.016	12700	140	30	5	21 3/8	12	BARE ELEMENT	STERLING JVB-B-C433	1,2
FT-9	200	1	3-5/8 X 4-1/4	Cu/AL	3-6 CL	1200	11	1.056	13200	140	30	5	21 3/8	12	BARE ELEMENT	STERLING JVB-B-C433	1,2
FT-10	200	1	3-5/8 X 4-1/4	Cu/AL	3-6 CL	1200	11	1.056	13200	140	30	5	21 3/8	12	BARE ELEMENT	STERLING JVB-B-C433	1,2
FT-11	211	1	3-5/8 X 4-1/4	Cu/AL	3-6 CL	1200	10.75	1.032	12900	140	30	5	21 3/8	11	BARE ELEMENT	STERLING JVB-B-C433	1
FT-12	211	1	3-5/8 X 4-1/4	Cu/AL	3-6 CL	1200	10.75	1.032	12900	140	30	5	21 3/8	11	BARE ELEMENT	STERLING JVB-B-C433	1
FT-13	209	1	3-5/8 X 4-1/4	Cu/AL	3-6 CL	1200	10.75	1.032	12900	140	30	5	21 3/8	11.5	BARE ELEMENT	STERLING JVB-B-C433	1
FT-14	209	1	3-5/8 X 4-1/4	Cu/AL	3-6 CL	1200	10.75	1.032	12900	140	30	5	21 3/8	11.5	BARE ELEMENT	STERLING JVB-B-C433	1
FT-15	207	1	3-5/8 X 4-1/4	Cu/AL	3-6 CL	1200	10.75	1.032	12900	140	30	5	21 3/8	11.5	BARE ELEMENT	STERLING JVB-B-C433	1
FT-16	207	1	3-5/8 X 4-1/4	Cu/AL	3-6 CL	1200	10.75	1.032	12900	140	30	5	21 3/8	11.5	BARE ELEMENT	STERLING JVB-B-C433	1
FT-17	205	3/4	3-5/8 X 4-1/4	Cu/AL	3-6 CL	1320	9.75	1.0296	12870	140	30	5	21 3/8	10.25	BARE ELEMENT	STERLING JVB-B-C3/4-433	1
FT-18	205	3/4	3-5/8 X 4-1/4	Cu/AL	3-6 CL	1320	9.75	1.0296	12870	140	30	5	21 3/8	10.25	BARE ELEMENT	STERLING JVB-B-C3/4-433	1
FT-19	205	3/4	3-5/8 X 4-1/4	Cu/AL	3-6 CL	1320	9.75	1.0296	12870	140	30	5	21 3/8	10.25	BARE ELEMENT	STERLING JVB-B-C3/4-433	1
FT-20	201	3/4	3-5/8 X 4-1/4	Cu/AL	2-6 CL	780	6	0.3744	4680	140	24	5 5/16	28	7	FLAT TOP	STERLING JVB-T-C3/4-435	3,4,5
FT-21	312	3/4	3-5/8 X 4-1/4	Cu/AL	2-6 CL	1120	9.667	0.86616	10827	140	24	5 5/16	28	11	FLAT TOP	STERLING JVB-T-C3/4-434	2,3,4,5
FT-22	310	1	3-5/8 X 4-1/4	Cu/AL	3-6 CL	1280	11.167	1.14352	14294	140	30	5	21 3/8	12	BARE ELEMENT	STERLING JVB-B-C434	1,2
FT-23	310	1	3-5/8 X 4-1/4	Cu/AL	3-6 CL	1280	11.167	1.14352	14294	140	30	5	21 3/8	12	BARE ELEMENT	STERLING JVB-B-C434	1,2
FT-24	308	1	3-5/8 X 4-1/4	Cu/AL	3-6 CL	1280	11.167	1.14352	14294	140	30	5	21 3/8	12	BARE ELEMENT	STERLING JVB-B-C434	1,2
FT-25	308	1	3-5/8 X 4-1/4	Cu/AL	3-6 CL	1280	11.167	1.14352	14294	140	30	5	21 3/8	12	BARE ELEMENT	STERLING JVB-B-C434	1,2
FT-26	306	1	3-5/8 X 4-1/4	Cu/AL	3-6 CL	1280	11.167	1.14352	14294	140	30	5	21 3/8	12	BARE ELEMENT	STERLING JVB-B-C434	1,2
FT-27	306	1	3-5/8 X 4-1/4	Cu/AL	3-6 CL	1280	11.167	1.14352	14294	140	30	5	21 3/8	12	BARE ELEMENT	STERLING JVB-B-C434	1,2
FT-28	304	1	3-5/8 X 4-1/4	Cu/AL	3-6 CL	1380	11.583	1.2788	15985	140	30	5	21 3/8	8	FLAT TOP	STERLING JVB-B-C435	1,2
FT-29	304	1	3-5/8 X 4-1/4	Cu/AL	3-6 CL	1380	11.583	1.2788	15985	140	30	5	21 3/8	12	FLAT TOP	STERLING JVB-B-C435	1,2
FT-30	315	1	3-5/8 X 4-1/4	Cu/AL	3-6 CL	1280	10	1.024	12800	140	30	5	21 3/8	11	BARE ELEMENT	STERLING JVB-B-C434	1,2
FT-31	315	1	3-5/8 X 4-1/4	Cu/AL	3-6 CL	1280	10	1.024	12800	140	30	5	21 3/8	11	BARE ELEMENT	STERLING JVB-B-C434	1,2
FT-32	309	1	3-5/8 X 4-1/4	Cu/AL	3-6 CL	1280	10.75	1.1008	13760	140	30	5	21 3/8	12	BARE ELEMENT	STERLING JVB-B-C434	1,2
FT-33	309	1	3-5/8 X 4-1/4	Cu/AL	3-6 CL	1280	10.75	1.1008	13760	140	30	5	21 3/8	12	BARE ELEMENT	STERLING JVB-B-C434	1,2
FT-34	307	1	3-5/8 X 4-1/4	Cu/AL	3-6 CL	1280	11	1.1264	14080	140	30	5	21 3/8	12	BARE ELEMENT	STERLING JVB-B-C434	1,2
FT-35	307	1	3-5/8 X 4-1/4	Cu/AL	3-6 CL	1280	11	1.1264	14080	140	30	5	21 3/8	12	BARE ELEMENT	STERLING JVB-B-C434	1,2
FT-36	305	1	3-5/8 X 4-1/4	Cu/AL	3-6 CL	1280	11	1.1264	14080	140	30	5	21 3/8	12	BARE ELEMENT	STERLING JVB-B-C434	1,2
FT-37	305	1	3-5/8 X 4-1/4	Cu/AL	3-6 CL	1280	11	1.1264	14080	140	30	5	21 3/8	12	BARE ELEMENT	STERLING JVB-B-C434	1,2
FT-38	303	1	3-5/8 X 4-1/4	Cu/AL	3-6 CL	1280	11	1.1264	14080	140	30	5	21 3/8	12	BARE ELEMENT	STERLING JVB-B-C434	1,2
FT-39	303	1	3-5/8 X 4-1/4	Cu/AL	3-6 CL	1280	11	1.1264	14080	140	30	5	21 3/8	12	BARE ELEMENT	STERLING JVB-B-C434	1,2
FT-40	301	1	3-5/8 X 4-1/4	Cu/AL	3-6 CL	1280	11	1.1264	14080	140	30	5	21 3/8	12	BARE ELEMENT	STERLING JVB-B-C434	1,2
FT-41	301	1	3-5/8 X 4-1/4	Cu/AL	3-6 CL	1280	11	1.1264	14080	140	30	5	21 3/8	12	BARE ELEMENT	STERLING JVB-B-C434	1,2
FT-42	324	1	3-5/8 X 4-1/4	Cu/AL	3-6 CL	1280	11.5	1.1776	14720	140	30	5	21 3/8	12.5	BARE ELEMENT	STERLING JVB-B-C434	1,2
FT-43	324	1	3-5/8 X 4-1/4	Cu/AL	3-6 CL	1280	11.5	1.1776	14720	140	30	5	21.375	12.5	BARE ELEMENT	STERLING JVB-B-C434	1,2
FT-44	324	1	3-5/8 X 4-1/4	Cu/AL	3-6 CL	1280	11.5	1.1776	14720	140	30	5	21.375	12.5	BARE ELEMENT	STERLING JVB-B-C434	1,2
FT-45	320	1	3-5/8 X 4-1/4	Cu/AL	3-6 CL	1280	12.5	1.28	16000	140	30	5	21 3/8	13.5	BARE ELEMENT	STERLING JVB-B-C434	1,2
FT-46	320	1	3-5/8 X 4-1/4	Cu/AL	3-6 CL	1280	12.5	1.28	16000	140	30	5	21.375	13.5	BARE ELEMENT	STERLING JVB-B-C434	1,2
FT-47	320	1	3-5/8 X 4-1/4	Cu/AL	3-6 CL	1280	12.5	1.28	16000	140	30	5	21.375	13.5	BARE ELEMENT	STERLING JVB-B-C434	1,2
FT-48	316	1	3-5/8 X 4-1/4	Cu/AL	3-6 CL	1380	12.5	1.38	17250	140	30	5	21 3/8	13.5	BARE ELEMENT	STERLING JVB-B-C435	1,2
FT-49	316	1	3-5/8 X 4-1/4	Cu/AL	3-6 CL	1380	12.5	1.38	17250	140	30	5	21 3/8	13.5	BARE ELEMENT	STERLING JVB-B-C435	1,2
FT-50	316	1	3-5/8 X 4-1/4	Cu/AL	3-6 CL	1380	12.5	1.38	17250	140	30	5	21 3/8	13.5	BARE ELEMENT	STERLING JVB-B-C435	1,2
FT-51	316	1	3-5/8 X 4-1/4	Cu/AL	3-6 CL	1380	12.5	1.38	17250	140	30	5	21 3/8	13.5	BARE ELEMENT	STERLING JVB-B-C435	1,2
FT-52	323	1	3-5/8 X 4-1/4	Cu/AL	3-6 CL	1380	11	1.2144	15180	140	30	5	21 3/8	12	BARE ELEMENT	STERLING JVB-B-C435	1,2
FT-53	323	1	3-5/8 X 4-1/4	Cu/AL	3-6 CL	1380	11	1.2144	15180	140	30	5	21 3/8	12	BARE ELEMENT	STERLING JVB-B-C435	1,2
FT-54	323	1	3-5/8 X 4-1/4	Cu/AL	3-6 CL	1380	11	1.2144	15180	140	30	5	21 3/8	12	BARE ELEMENT	STERLING JVB-B-C435	1,2
FT-55	323	1	3-5/8 X 4-1/4	Cu/AL	3-6 CL	1380	11	1.2144	15180	140	30	5	21 3/8	12	BARE ELEMENT	STERLING JVB-B-C435	1,2
FT-56	323	1	3-5/8 X 4-1/4	Cu/AL	3-6 CL	1380	11	1.2144	15180	140	30	5	21 3/8	12	BARE ELEMENT	STERLING JVB-B-C435	1,2
FT-57	319	1	3-5/8 X 4-1/4	Cu/AL	3-6 CL	1380	10.75	1.1868	14835	140	30	5	21 3/8	12.5	BARE ELEMENT	STERLING JVB-B-C435	1,2
FT-58	319	1	3-5/8 X 4-1/4	Cu/AL	3-6 CL	1380	10.75	1.1868	14835	140	30	5	21 3/8	12.5	BARE ELEMENT	STERLING JVB-B-C435	1,2
FT-59	319	1	3-5/8 X 4-1/4	Cu/AL	3-6 CL	1380	10.75	1.1868	14835	140	30	5	21 3/8	12.5	BARE ELEMENT	STERLING JVB-B-C435	1,2
FT-60	317	1	3-5/8 X 4-1/4	Cu/AL	3-6 CL	1380	12	1.3248	16560	140	30	5	21 3/8	14	BARE ELEMENT	STERLING JVB-B-C435	1,2
FT-61	317	1	3-5/8 X 4-1/4	Cu/AL	3-6 CL	1380	12	1.3248	16560	140	30	5	21 3/8	14	BARE ELEMENT	STERLING JVB-B-C435	1,2
FT-62	414	1	3-5/8 X 4-1/4	Cu/AL	3-6 CL	1380	12	1.3248	16560	140	30	5	21 3/8	13.5	BARE ELEMENT	STERLING JVB-B-C435	1,2
FT-63	414	1	3-5/8 X 4-1/4	Cu/AL	3-6 CL	1380	12	1.3248	16560	140	30	5	21 3/8	13.5	BARE ELEMENT	STERLING JVB-B-C435	1,2

FIN TUBE SCHEDULE (CONTINUED)

TAG	LOCATION	TUBE SIZE (IN)	FIN SIZE H X W (IN)	FIN TYPE	TIERS	BTUH/LF	ACTIVE LENGTH (FT)	HOT WATER			ENCLOSURE					TYPICAL UNIT MFG & MODEL NO.	NOTES:
								FLOW (GPM)	BTUH	AWT (°F)	H (IN.)	D (IN.)	MOUNT HEIGHT (IN)	APPROX LENGTH (FT)	ENCLOSURE STYLE		
FT-64	412	1	3-5/8 X 4-1/4	Cu/AL	3-6 CL	1280	10.667	1.09232	13654	140	30	5	21 3/8	12	BARE ELEMENT	STERLING JVB-B-C434	1,2
FT-65	412	1	3-5/8 X 4-1/4	Cu/AL	3-6 CL	1280	10.667	1.09232	13654	140	30	5	21.375	12	BARE ELEMENT	STERLING JVB-B-C434	1,2
FT-66	410	1	3-5/8 X 4-1/4	Cu/AL	3-6 CL	1280	10.667	1.09232	13654	140	30	5	21 3/8	12	BARE ELEMENT	STERLING JVB-B-C434	1,2
FT-67	410	1	3-5/8 X 4-1/4	Cu/AL	3-6 CL	1280	10.667	1.09232	13654	140	30	5	21 3/8	12	BARE ELEMENT	STERLING JVB-B-C434	1,2
FT-68	408	1	3-5/8 X 4-1/4	Cu/AL	3-6 CL	1280	10.667	1.09232	13654	140	30	5	21 3/8	12	BARE ELEMENT	STERLING JVB-B-C434	1,2
FT-69	408	1	3-5/8 X 4-1/4	Cu/AL	3-6 CL	1280	10.667	1.09232	13654	140	30	5	21 3/8	12	BARE ELEMENT	STERLING JVB-B-C434	1,2
FT-70	406	1	4-1/4 SQ	Cu/AL	3-6 CL	1280	8.333	0.85328	10666	140	24	5 5/16	28	8.5	FLAT TOP	STERLING JVB-T-C45	2,3,4,5
FT-71	406	1	4-1/4 SQ	Cu/AL	3-6 CL	1280	8.333	0.85328	10666	140	24	5 5/16	28	8.5	FLAT TOP	STERLING JVB-T-C45	2,3,4,5
FT-72	404	1	4-1/4 SQ	Cu/AL	3-6 CL	1280	8.333	0.85328	10666	140	24	5 5/16	28	8.5	FLAT TOP	STERLING JVB-T-C45	2,3,4,5
FT-73	404	1	4-1/4 SQ	Cu/AL	3-6 CL	1280	8.333	0.85328	10666	140	24	5 5/16	28	8.5	FLAT TOP	STERLING JVB-T-C45	2,3,4,5
FT-74	400	1	3-5/8 X 4-1/4	Cu/AL	2-6 CL	1010	4	0.3232	4040	140	20	5 5/16	24	5.25	FLAT TOP	STERLING JVB-T-C435	2,3,4,5
FT-75	411	1	3-5/8 X 4-1/4	Cu/AL	3-6 CL	1280	10.833	1.10928	13866	140	30	5	21 3/8	12	BARE ELEMENT	STERLING JVB-B-C434	1,2
FT-76	411	1	3-5/8 X 4-1/4	Cu/AL	3-6 CL	1280	10.833	1.10928	13866	140	30	5	21 3/8	12	BARE ELEMENT	STERLING JVB-B-C434	1,2
FT-77	409	1	3-5/8 X 4-1/4	Cu/AL	3-6 CL	1280	10.833	1.10928	13866	140	30	5	21 3/8	12	BARE ELEMENT	STERLING JVB-B-C434	1,2
FT-78	409	1	3-5/8 X 4-1/4	Cu/AL	3-6 CL	1280	10.833	1.10928	13866	140	30	5	21 3/8	12	BARE ELEMENT	STERLING JVB-B-C434	1,2
FT-79	407	1	3-5/8 X 4-1/4	Cu/AL	3-6 CL	1280	10.833	1.10928	13866	140	30	5	21 3/8	12	BARE ELEMENT	STERLING JVB-B-C434	1,2
FT-80	407	1	3-5/8 X 4-1/4	Cu/AL	3-6 CL	1280	10.833	1.10928	13866	140	30	5	21 3/8	12	BARE ELEMENT	STERLING JVB-B-C434	1,2
FT-81	405	1	3-5/8 X 4-1/4	Cu/AL	3-6 CL	1280	10.833	1.10928	13866	140	30	5	21 3/8	12	BARE ELEMENT	STERLING JVB-B-C434	1,2
FT-82	405	1	3-5/8 X 4-1/4	Cu/AL	3-6 CL	1280	10.833	1.10928	13866	140	30	5	21 3/8	12	BARE ELEMENT	STERLING JVB-B-C434	1,2
FT-83	403	1	3-5/8 X 4-1/4	Cu/AL	3-6 CL	1280	10.833	1.10928	13866	140	30	5	21 3/8	12	BARE ELEMENT	STERLING JVB-B-C434	1,2
FT-84	403	1	3-5/8 X 4-1/4	Cu/AL	3-6 CL	1280	10.833	1.10928	13866	140	30	5	21 3/8	12	BARE ELEMENT	STERLING JVB-B-C434	1,2
FT-85	401	1	3-5/8 X 4-1/4	Cu/AL	3-6 CL	1280	10.833	1.10928	13866	140	30	5	21 3/8	12	BARE ELEMENT	STERLING JVB-B-C434	1,2
FT-86	401	1	3-5/8 X 4-1/4	Cu/AL	3-6 CL	1280	10.833	1.10928	13866	140	30	5	21 3/8	12	BARE ELEMENT	STERLING JVB-B-C434	1,2
FT-87	426	1	3-5/8 X 4-1/4	Cu/AL	3-6 CL	1380	11	1.2144	15180	140	30	5	21 3/8	12	BARE ELEMENT	STERLING JVB-B-C435	1,2
FT-88	426	1	3-5/8 X 4-1/4	Cu/AL	3-6 CL	1380	11	1.2144	15180	140	30	5	21 3/8	12	BARE ELEMENT	STERLING JVB-B-C435	1,2
FT-89	424	1	3-5/8 X 4-1/4	Cu/AL	3-6 CL	1280	10.833	1.10928	13866	140	30	5	21 3/8	12	BARE ELEMENT	STERLING JVB-B-C434	1,2
FT-90	424	1	3-5/8 X 4-1/4	Cu/AL	3-6 CL	1280	10.833	1.10928	13866	140	30	5	21 3/8	12	BARE ELEMENT	STERLING JVB-B-C434	1,2
FT-91	422	1	3-5/8 X 4-1/4	Cu/AL	3-6 CL	1380	10.833	1.196	14950	140	30	5	21 3/8	12	BARE ELEMENT	STERLING JVB-B-C435	1,2
FT-92	422	1	3-5/8 X 4-1/4	Cu/AL	3-6 CL	1380	10.833	1.196	14950	140	30	5	21 3/8	12	BARE ELEMENT	STERLING JVB-B-C435	1,2
FT-93	420	1	3-5/8 X 4-1/4	Cu/AL	3-6 CL	1280	11	1.1264	14080	140	30	5	21 3/8	12	BARE ELEMENT	STERLING JVB-B-C434	1,2
FT-94	420	1	3-5/8 X 4-1/4	Cu/AL	3-6 CL	1280	11	1.1264	14080	140	30	5	21 3/8	12	BARE ELEMENT	STERLING JVB-B-C434	1,2
FT-95	418	1	3-5/8 X 4-1/4	Cu/AL	3-6 CL	1280	8.5	0.8704	10880	140	30	5	21 3/8	12	BARE ELEMENT	STERLING JVB-B-C434	1,2
FT-96	418	1	3-5/8 X 4-1/4	Cu/AL	3-6 CL	1280	8.5	0.8704	10880	140	30	5	21 3/8	12	BARE ELEMENT	STERLING JVB-B-C434	1,2
FT-97	418	1	3-5/8 X 4-1/4	Cu/AL	3-6 CL	1280	8.5	0.8704	10880	140	30	5	21 3/8	12	BARE ELEMENT	STERLING JVB-B-C434	1,2
FT-98	423	1	3-5/8 X 4-1/4	Cu/AL	3-6 CL	1380	10.75	1.1868	14835	140	30	5	21 3/8	12	BARE ELEMENT	STERLING JVB-B-C435	1,2
FT-99	423	1	3-5/8 X 4-1/4	Cu/AL	3-6 CL	1380	10.75	1.1868	14835	140	30	5	21 3/8	12	BARE ELEMENT	STERLING JVB-B-C435	1,2
FT-100	421	1	3-5/8 X 4-1/4	Cu/AL	3-6 CL	1280	10.75	1.1008	13760	140	30	5	21 3/8	12	BARE ELEMENT	STERLING JVB-B-C434	1,2
FT-101	421	1	3-5/8 X 4-1/4	Cu/AL	3-6 CL	1280	10.75	1.1008	13760	140	30	5	21 3/8	12	BARE ELEMENT	STERLING JVB-B-C434	1,2
FT-102	419	1	3-5/8 X 4-1/4	Cu/AL	3-6 CL	1280	11	1.1264	14080	140	30	5	21 3/8	12	BARE ELEMENT	STERLING JVB-B-C434	1,2
FT-103	419	1	3-5/8 X 4-1/4	Cu/AL	3-6 CL	1280	11	1.1264	14080	140	30	5	21 3/8	12	BARE ELEMENT	STERLING JVB-B-C434	1,2
FT-104	417	1	3-5/8 X 4-1/4	Cu/AL	3-6 CL	1280	11	1.1264	14080	140	30	5	21 3/8	12	BARE ELEMENT	STERLING JVB-B-C434	1,2
FT-105	417	1	3-5/8 X 4-1/4	Cu/AL	3-6 CL	1280	11	1.1264	14080	140	30	5	21 3/8	12	BARE ELEMENT	STERLING JVB-B-C434	1,2
FT-106	415	1	3-5/8 X 4-1/4	Cu/AL	3-6 CL	1280	10.75	1.1008	13760	140	30	5	21 3/8	12	BARE ELEMENT	STERLING JVB-B-C434	1,2
FT-107	415	1	3-5/8 X 4-1/4	Cu/AL	3-6 CL	1280	10.75	1.1008	13760	140	30	5	21 3/8	12	BARE ELEMENT	STERLING JVB-B-C434	1,2
FT-108	413	1	3-5/8 X 4-1/4	Cu/AL	3-6 CL	1280	10.75	1.1008	13760	140	30	5	21 3/8	12	BARE ELEMENT	STERLING JVB-B-C434	1,2
FT-109	413	1	3-5/8 X 4-1/4	Cu/AL	3-6 CL	1280	10.75	1.1008	13760	140	30	5	21 3/8	12	BARE ELEMENT	STERLING JVB-B-C434	1,2

NOTES:

1. LOCATE ELEMENT BEHIND MILLWORK, MILLWORK BY GC.
2. CONTROL VALVES ABOVE THE CEILING.
3. COLOR BY ARCHITECT.
4. MC TO FIELD VERIFY ENCLOSURE LENGTH. ENCLOSURE TO BE FULL WIDTH WITHOUT GAPS.
5. COORDINATE HEIGHT WITH ELECTRICAL DEVICES.

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SOUTH ORANGETOWN Central School District
Capital Improvements Bond
Essential Infrastructure for Student Health, Safety and Success

PROJECT INFORMATION

Project Number
14457.20

Client Name
SOUTH ORANGETOWN CENTRAL SCHOOL DISTRICT

Project Name
PHASE 2: 2022 BOND

TAPPAN ZEE HIGH SCHOOL

Building Address
160 VAN WYCK RD., BLAUVELT, NY 10913

SED # 50-03-01-06-0-006-033

Registration Expiration Dates
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Anthony Marchetti 05/31/27
Dave Hart 02/28/25
Jennifer Wengender 06/30/27

PROJECT ISSUE & REVISION SCHEDULE

#	Date	Description

PROFESSIONAL STAMPS

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SHEET INFORMATION

Issued
10/25/2024

Scale
12" = 1'-0"

Project Status
BID DOCUMENTS

Drawn By
KCM

Checked By
JJM

Drawing Title
HVAC SCHEDULES

Drawing Number
TZHS
H902

BOILER SCHEDULE (CONDENSING)

TAG	LOCATION	SERVICE	MANUFACTURER	MODEL	FUEL	MAX. INPUT (MBH)	MIN. OUTPUT (MBH)	MAX. OUTPUT (MBH)	EFFICIENCY RANGE	EFFICIENCY 80°F TO 180°F	GAS PRESSURE		MAX. WATER FLOW (GPM)	MIN. WATER FLOW (GPM)	EWT (°F)	LWT (°F)	FLUE SIZE	ELECTRICAL						NOTES
											MIN.	MAX.						V	PH	HZ	MCA	FLA	MOCP	
B-4	BOILER	HEATING	FULTON	VTG-2000DF	NG/OIL	2000	387.2	1936	85-95	95%	14	42	192	NA	115	140	10	208	3	60	20	18	20	1,2,3,4

NOTES:
1. FACTORY BOILER MANAGEMENT SYSTEM, CONNECT TO EXISTING SIEMEMS BACNET CONTROLS.
2. CONDENSATE NEUTRALIZATION KIT.
3. UL 1738 PVC PIPING FOR INTAKE AND VENTING.
4. UNIT WEIGHTS 3800LBS DRY.

BOILER SCHEDULE (STEAM) (B) (OWNER PROVIDED)

TAG	LOCATION	SERVICE	MANUFACTURER	MODEL	FUEL	OIL INPUT (GPH)	GAS INTPUT (MBH)	GROSS OUTPUT (MBH)	BOILER HP	FLUE SIZE (IN)	EFFICENCY	ELECTRICAL				NOTES
												V	PH	HZ	HP	
B-2	BOILER	HEATING	WEIL-McLAIN	1488	NG/OIL	31	4464	3709	110.8	16	83.1	208	3	60	2	1,2
B-3	BOILER	HEATING	WEIL-McLAIN	1488	NG/OIL	31	4464	3709	110.8	16	83.1	208	3	60	2	1,2

NOTES:
1. CONNECT TO EXISTING CONTROLS, FLUE, AND ALL PIPING. FULLY MODULAR CONTROLS WITH BMS. DEDICATED CONTROL PANEL.
2. POWERFLAME C3-G0-25 BURNER.

PUMP SCHEDULE (P)

TAG	LOCATION	SERVICE	MANUFACTURER	MODEL	TYPE	FLUID	GPM	HEAD (FT.WG.)	RPM	HP	ELECTRICAL				EFFICIENCY	WEIGHT (LB)	NOTES
											V	PH	HZ	AMPS			
P-1	BOILER	B-4	FULTON	2-30-001762	INLINE	WATER	192	6.3	-	-	208	1	60	3.32	-	49	1,2
P-2	BOILER	HEAT LOOP	BELL & GOSSETT	e-80 3x3x9.5C	INLINE	WATER	198	13.5	1635	5	208	3	60	-	68.6	255	1,2

NOTES:
1. HORIZONTAL INLINE MOUNTING.
2. FACTORY WIRED AND MOUNTED DISCONNECT.

UNIT HEATER SCHEDULE (HYDRONIC)

TAG	LOCATION	SERVICE	MANUFACTURER	MODEL	SUPPLY AIR FLOW (CFM)	OUTDOOR AIR FLOW (CFM)	RETURN AIR FLOW (CFM)	FLOW GPM	P.D. (FT.WG.)	HEATING CAPACITY (MBH)	EWT (°F)	ELECTRICAL					WEIGHT (LBS)	NOTES
												V	PH	HZ	HP	RPM		
UH-1	GARAGE 96	HEATING	MODINE	HCH 170	2870	-	2870	17	7.4	169.564	140	115	1	60	1/3	1140	145	1,3
UH-2	GARAGE 98	HEATING	MODINE	HCH 104	1830	-	1830	10.4	4.8	104.204	140	115	1	60	1/6	1075	93	1,3
UH-3	GARAGE 100	HEATING	MODINE	HCH 104	1830	-	1830	10.4	4.8	104.204	140	115	1	60	1/6	1075	93	1,3
CUH-1	CORRIDOR 159	HEATING	MODINE	CW-01258	1025	-	1025	4	0	29.716	140	115	1	60	0.05	-	240	2,3
CUH-2	CORRIDOR 02-107	HEATING	MODINE	CW-00657	495	100	395	6	0.05	20.717	140	115	1	60	0.05	-	135	2,3,4
CUH-3	CORRIDOR 02-107	HEATING	MODINE	CW-00658	495	-	495	4.7	0	22.352	140	115	1	60	0.05	-	135	2,3

NOTES:
1. MOUNTING HIEGHT PER MANUFACTURER'S RECOMMENDATIONS.
2. RECESSED CEILING MOUNTING.
3. FACTORY WIRED AND MOUNTED DISCONNECT.
4. PROVIDE WITH DUCT COLLAR.

EXPANSION TANK SCHEDULE (ET)

TAG	LOCATION	SERVICE	MANUFACTURER	MODEL	ACCEPTANCE GALLONS	TOTAL VOLUME	DIMENSIONS (IN.)	CONFIGURATION	TYPE	WEIGHT (LBS)
ET-1	BOILER ROOM	HEATING	BELL & GOSSETT	B800	211	211	32 X 76	VERTICAL	DIAPHRAM	2351

AIR SEPARATOR SCHEDULE

TAG	LOCATION	SERVICE	MANUFACTURER	MODEL	INLET/OUTLET SIZE	FLOW (GPM)	FREE AREA (IN^2)	FLUID	HEIGHT (IN.)	DIAMETER (IN.)	NOTES
AS-1	BOILER	HEATING	BELL & GOSSET	R-4F	4/4	300	120	WATER	31	12.75	1

NOTES:
1. MOUNT PER MANUFACTURERS INSTRUCTIONS. UNIT SUSPENDED FROM CEILING.

GRAVITY VENTILATOR SCHEDULE

TAG	LOCATION	SERVICE	MANUFACTURER	MODEL	THROAT AREA (SQ.FT.)	HOOD AREA (SQ.FT.)	AIR FLOW (CFM)	S.P. (IN.WG.)	NOTES
GI-1	ROOF	02-107	GREENHECK	GRSI-8	110.25	330.06	100	0.013	1,2

NOTES:
1. MOTORIZED DAMPER IN CURB.
2. 14" CURB, HINGED BASE AND BIRD SCREEN.

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SOUTH ORANGETOWN Central School District
Capital Improvements Bond
Essential Infrastructure for Student Health, Safety and Success

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14457.20

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SED # 50-03-01-06-0-006-033

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Jennifer Wengender 06/30/27

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#	Date	Description
1	07/26/2024	SED ADDENDUM #3

PROFESSIONAL STAMPS

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SHEET INFORMATION

Issued
10/25/2024

Scale
12" = 1'-0"

Project Status
BID DOCUMENTS

Drawn By
KCM

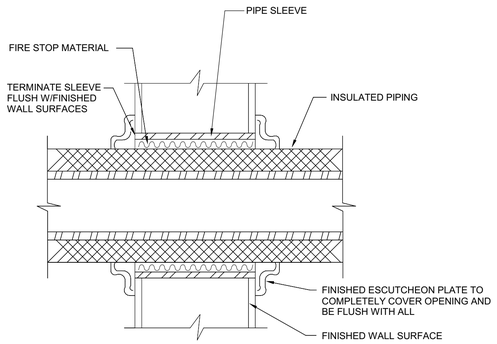
Checked By
JJM

Drawing Title
HVAC SCHEDULES

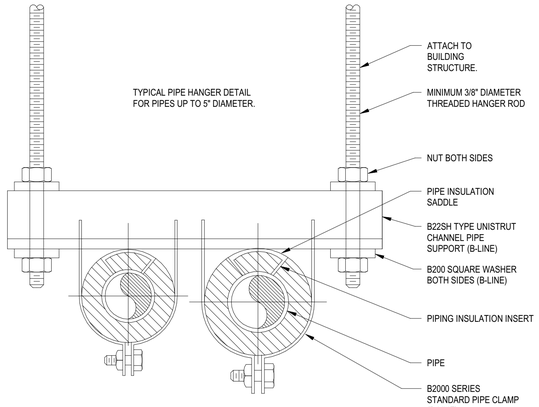
Drawing Number
TZHS
H903

PLUMBING EQUIPMENT & FIXTURE SCHEDULE

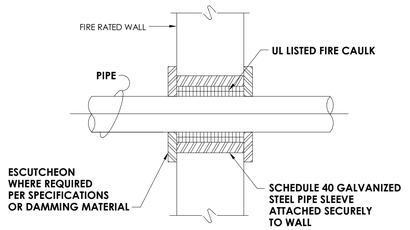
MARK	FIXTURE	CW	HW	SAN	V	DESCRIPTION	MANUFACTURER	MODEL	REMARKS
EMS-1	EMERGENCY SHOWER/EYEWASH STATION	1"	1"			COMBINATION EYE/FACE WASH AND SHOWER SAFETY STATION. LOWERED AND EXTENDED BOWL FOR WHEELCHAIR ACCESS. PROVIDE WITH THERMOSTATIC MIXING VALVE. GUARDIAN EQUIPMENT MODEL G6040.	GUARDIAN EQUIPMENT	GBF1996	1" CW & 1" HW SUPPLY TO SERVE MIXING VALVE. 1-1/4" SUPPLY FROM MIXING VALVE TO SAFETY STATION.
SK-1	SINK, ACCESSIBLE	1/2"	1/2"	1 1/2"	1 1/2"	DROP IN, SINGLE BASIN, STAINLESS STEEL, OD 25"x19-1/2", 5-1/2" DEEP, GOOSENECK FAUCET WITH WRISTBLADES, 2.2GPM	JUST MANUFACTURING	SLADA1921A55-J	
SK-2	SINK, ACCESSIBLE	1/2"	1/2"	1 1/2"	1 1/2"	DROP IN, SINGLE BASIN, STAINLESS STEEL, OD 15"x17-1/2"", 6" DEEP, GOOSENECK FAUCET WITH WRISTBLADES, 2.2GPM	JUST MANUFACTURING	SBLADA1815A60-J	



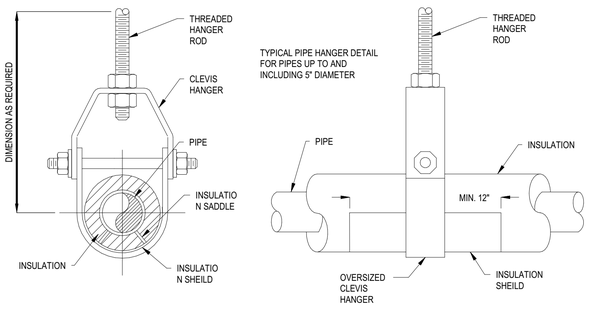
1 P000 **FINISHED INTERIOR WALL PIPE SLEEVE**
12" = 1'-0"



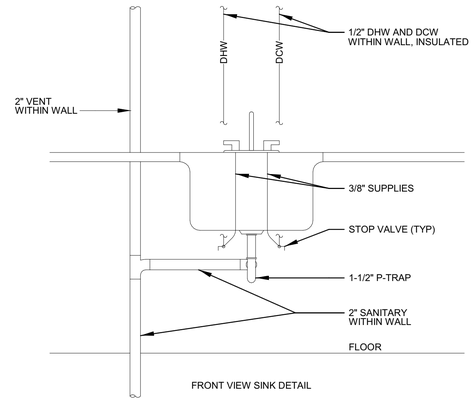
2 P000 **HORIZONTAL PIPE SUPPORT**
12" = 1'-0"



3 P000 **DETAIL - PIPE THRU RATED WALL**
12" = 1'-0"



4 P000 **INSULATED PIPE HANGER**
12" = 1'-0"



5 P000 **DETAIL - TYPICAL KITCHEN SINK FIT-UP DETAIL**
12" = 1'-0"

PIPING LEGEND

XX	PIPING
XX	PIPING BELOW GRADE
X	EXISTING PIPING
NG	NATURAL GAS
(D) FIXTURE	FIXTURE TO BE DEMOMOLISHED
	PLUMBING TO BE REMOVED

FIXTURES & FITTINGS LEGEND

	TEE OUTLET - UP
	TEE OUTLET - DOWN
	CONNECTION - BOTTOM
	CONNECTION TOP
	ELBOW - TURNED UP
	ELBOW - TURNED DOWN
	PIPE CAP
	UNION
	BALL VALVE
	BALANCING VALVE
	PLUG VALVE
	GAS PRESSURE REGULATOR
	PIPE GUIDE
	PIPE ANCHOR
FD	FLOOR DRAIN
	POINT OF CONNECTION
	POINT OF REMOVAL

GENERAL NOTES

A. ALL WORK SHALL COMPLY WITH STATE AND LOCAL CODES.

B. DOMESTIC WATER LINES SHALL BE TYPE L COPPER, LEAD FREE JOINTS. INSULATE ALL PIPING WITH 1" THICK PREFORMED FIBERGLASS PIPE INSULATION WITH ASJ COVER. ALL FITTINGS AND VALVES TO BE COVERED WITH PREFORMED PVC FITTING COVERS. ALL EXPOSED VERTICAL FIXTURE SUPPLY LINES TO BE COVERED WITH PVC JACKET TO 7' ABOVE FINISHED FLOOR.

C. UNDERGROUND SANITARY AND VENT PIPING SHALL BE SERVICE WEIGHT CAST IRON, HUB AND SPIGOT WITH RUBBER GASKET PUSH JOINTS. ABOVE GROUND SANITARY AND VENT PIPING SHALL BE DWV COPPER WITH DWV COPPER FITTINGS OR NO-HUB CAST IRON.

D. IT IS THE RESPONSIBILITY OF THE PLUMBING CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS WITHIN THE BUILDING PRIOR TO COMMENCEMENT OF ALL DEMOLITION AND NEW WORK.

E. IT IS THE RESPONSIBILITY OF THE PLUMBING CONTRACTOR TO REMOVE AND REPLACE EXISTING CEILINGS UNLESS OTHERWISE NOTED ON THE ARCHITECTURAL DRAWINGS, FOR PERFORMING DEMOLITION OR NEW WORK WITHIN THE BUILDING. THE CONTRACTOR SHALL REINSTALL THE CEILING SYSTEMS TO MATCH THE ORIGINAL INSTALLATION. ANY CEILING SYSTEM COMPONENT DAMAGED DURING DEMOLITION, STORAGE, OR RE-INSTALLATION SHALL BE REPLACED WITH A NEW AT NO EXPENSE TO THE OWNER.

F. ALL PIPING AND CONDUIT PENETRATIONS THRU RATED WALLS OR FLOORS SHALL BE PROVIDED WITH FIRE/SMOKE STOPPING.

G. UNLESS SHOWN ON THE ARCHITECTURAL DRAWINGS, IT IS THE RESPONSIBILITY OF THE PLUMBING CONTRACTOR TO PATCH AND FINISH ALL EXISTING PIPE PENETRATIONS AND TRENCHING THRU FLOOR AND WALLS AFTER DEMOLITION. IN ADDITION, ALL NEW PENETRATIONS AND TRENCHING SHALL BE PROVIDED FOR INSTALLATION OF PLUMBING SYSTEMS INCLUDING, BUT NOT LIMITED TO, EQUIPMENT, PIPING, ETC.

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SOUTH ORANGETOWN Central School District
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Essential Infrastructure for Student Health, Safety and Success

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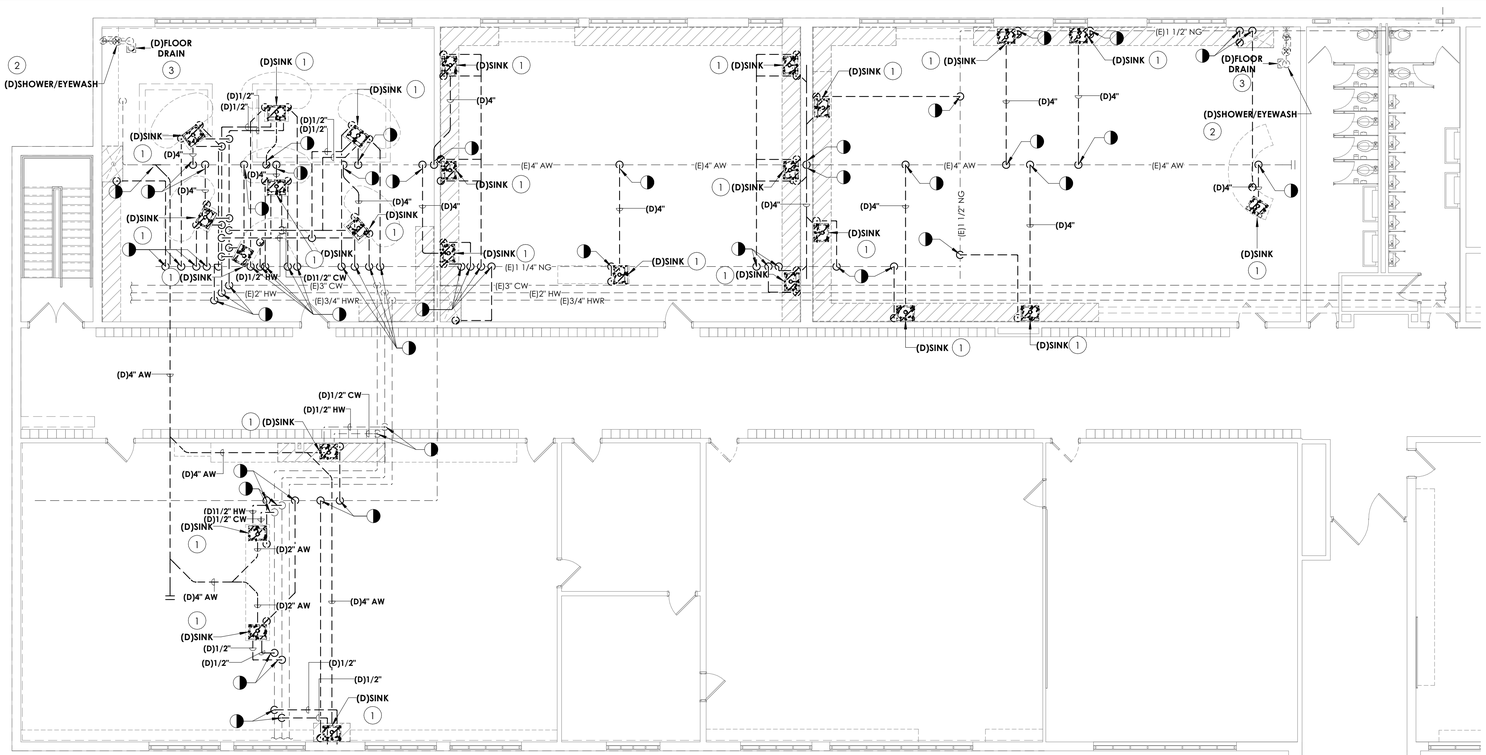
Project Status
BID DOCUMENTS

Drawn By
MLS

Checked By
JJW

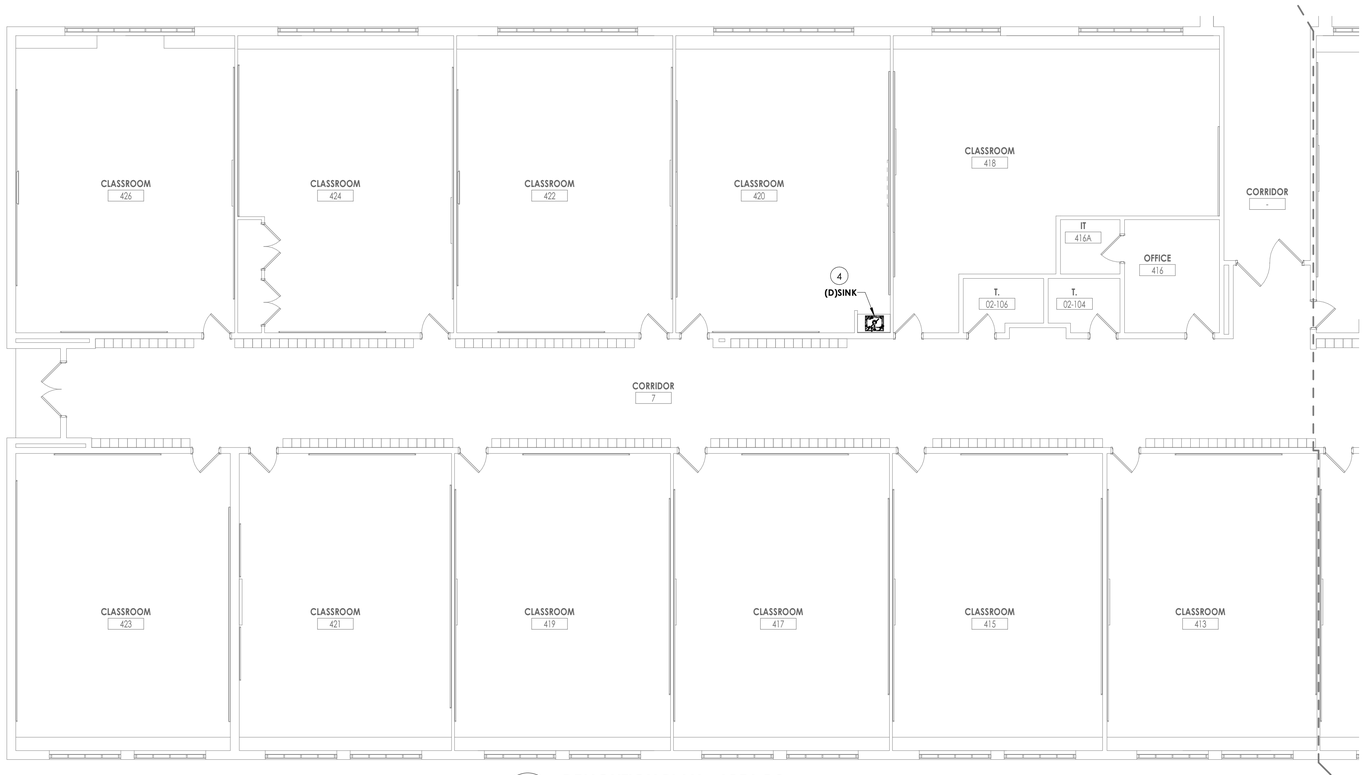
Drawing Title
PLUMBING LEGEND, NOTES, & DETAILS

Drawing Number
TZHS
P000



2 DEMOLITION PLAN - AREA C2

P101 — 1/8" = 1'-0"



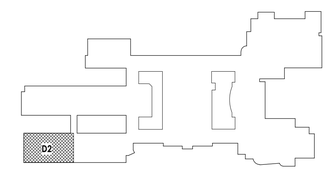
1 DEMOLITION PLAN - AREA D2

P101 — 1/8" = 1'-0"

KEY NOTES:

1. DISCONNECT & REMOVE EXISTING SINK, SUPPORTS, TRIM, AND RELATED WATER/DRAIN/VENT/GAS PIPING. CUT PIPING BACK TO MAIN AND CAP. REMOVE GAS SUPPLY VALVES AND UNDER SINK ACID NEUTRALIZATION KIT.
2. DISCONNECT & REMOVE EXISTING EMERGENCY SHOWER & EYEWASH. SUPPORTS, TRIM, AND RELATED WATER PIPING.
3. DISCONNECT & REMOVE EXISTING FLOOR DRAIN, TRIM, AND RELATED DRAIN/VENT PIPING.
4. DISCONNECT & REMOVE EXISTING SINK, SUPPORTS, TRIM, AND RELATED WATER/DRAIN/VENT PIPING.

KEY PLAN:



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SHEET INFORMATION

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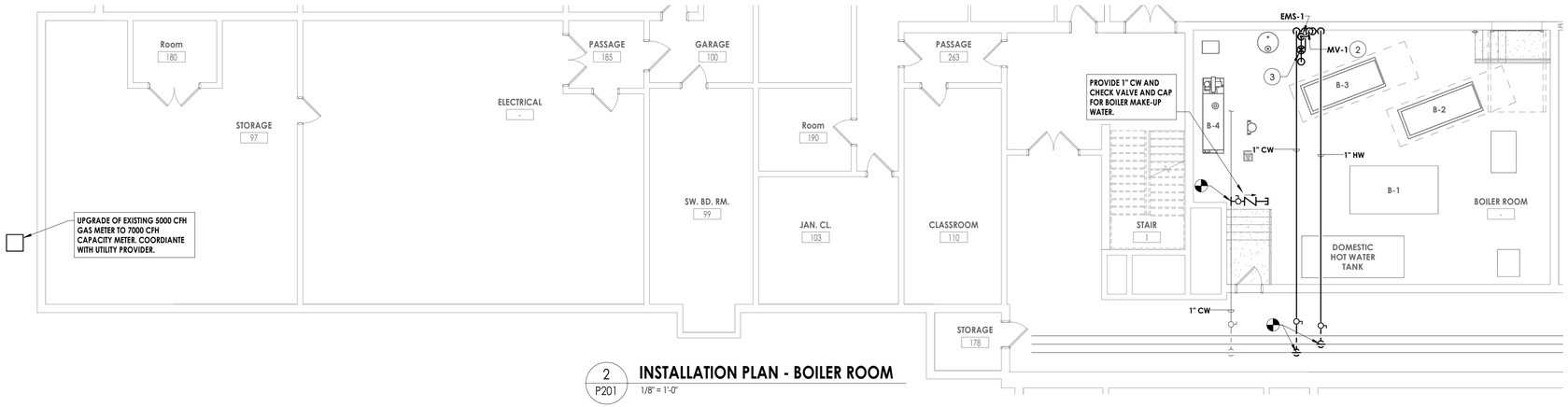
Project Status: BID DOCUMENTS
Drawn By: MLS
Checked By: JJW
Drawing Title: FIRST FLOOR DEMOLITION PLAN - AREA D2

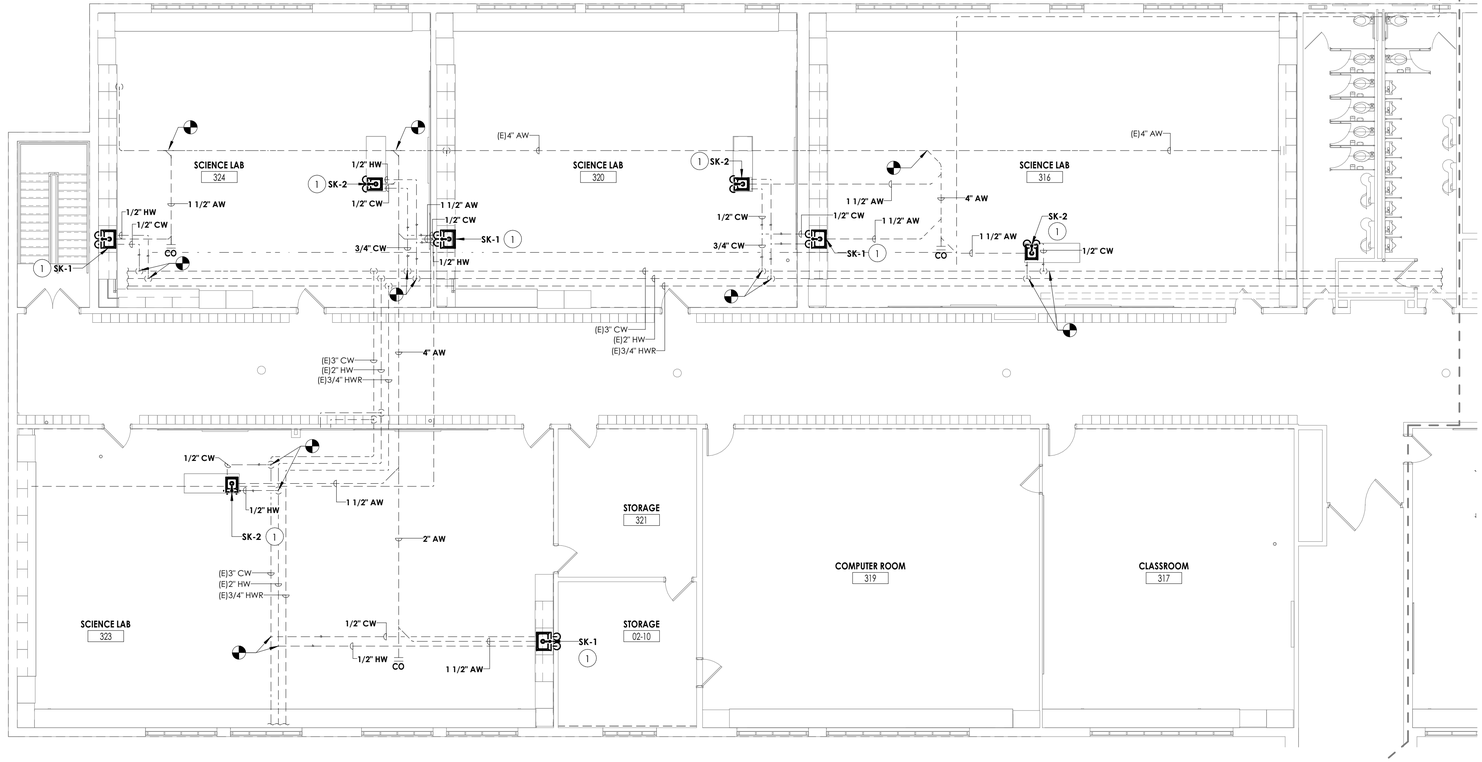
Drawing Number
TZHS
P101

KEY NOTES:

1. PROVIDE SINK, SUPPORTS, DOMESTIC WATER SUPPLY LINES, SUPPLY SHUT OFF VAVLES, P-TRAP WITH ACID NEUTRALIZTION KIT, SANITARY PIPING, & AIR ADMITTANCE VALVE FOR VENTING.
2. PROVIDE 1" DOMESTIC COLD WATER AND 1" DOMESTIC HOT WATER TO MIXING VAVLE MV-1. PROVIDE 1-1/4" TEMPERED WATER SUPPLY TO EMERGENCY EYEWASH STATION, EMS-1.
3. PROVIDE EMERGENCY SHOWER/EYEWASH STATION EMS-1, GUARDIAN MODEL# G1996. CONNECT TO 1-1/4" TEMPERED WATER SUPPLY FROM MIXING VALVE MV-1.

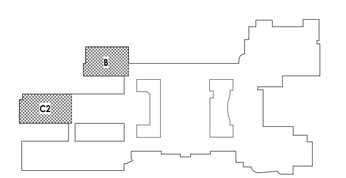


2 P201 **INSTALLATION PLAN - BOILER ROOM**
1/8" = 1'-0"



1 P201 **INSTALLATION PLAN - AREA C2**
1/8" = 1'-0"

KEY PLAN:



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SOUTH ORANGETOWN Central School District
Capital Improvements Bond
Essential Infrastructure for Student Health, Safety and Success

PROJECT INFORMATION

Project Number
14457.20

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Project Name
PHASE 2: 2022 BOND

TAPPAN ZEE HIGH SCHOOL

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SED # 50-03-01-06-0-006-033

Registration Expiration Dates
Lauren Tanio 09/30/26
Anthony Marchetti 05/31/27
Dave Hart 02/28/25
Jennifer Wengender 06/30/27

PROJECT ISSUE & REVISION SCHEDULE

#	Date	Description
1	07/26/2024	SED ADDENDUM #3

PROFESSIONAL STAMPS

NEW YORK STATE EDUCATION STATEMENT

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SHEET INFORMATION

Issued
10/25/2024

Scale
1/8" = 1'-0"

Project Status
BID DOCUMENTS

Drawn By
MLS

Checked By
JJW

Drawing Title
INSTALL PLAN - AREA C2

Drawing Number
TZHS
P201

10/22/2024 10:05:46 AM <project location>\REVIT PROJECT FILES ON BIM 360

WIRING LEGEND:

S. SWITCH

- (NONE) SINGLE POLE TOGGLE SWITCH
- 2 TWO POLE TOGGLE SWITCH
- 3 THREE WAY TOGGLE SWITCH
- 4 FOUR WAY TOGGLE SWITCH
- WP SINGLE POLE WEATHER PROOF SWITCH
- K SINGLE POLE KEYED SWITCH
- P SINGLE POLE SWITCH WITH PILOT LIGHT
- TM SINGLE POLE SWITCH WITH ONE HOUR TIMER
- T THERMAL SWITCH
- TP THERMAL SWITCH WITH PILOT LIGHT
- M MOMENTARY CONTACT SWITCH
- LV LOW VOLTAGE SWITCH
- D DIMMER SWITCH
- O OCCUPANCY SENSOR SWITCH
- V VACANCY SENSOR SWITCH

SII ROMAN NUMERAL DESIGNATES NUMBER OF SWITCHES

Sa LOWER CASE LETTER DESIGNATES SWITCH LEG

SINGLE RECEPTACLE

PLUG MOLD

DUPLEX RECEPTACLE

QUADRAPLEX RECEPTACLE

SPECIAL RECEPTACLE

- GFI GROUND FAULT CIRCUIT INTERRUPTER
- WP WEATHER PROOF IN-USE COVER
- SS SURGE SUPPRESSION
- C COUNTER HEIGHT
- TR TAMPER RESISTANT, UL LISTED
- IG ISOLATED GROUND
- RT RAIN TITE
- E EMERGENCY
- X TYPE X (SEE RECEPTACLE SCHEDULE)

PP POWER POLE

RECESSED FLOOR MOUNTED DUPLEX RECEPTACLE

SURFACE MOUNTED FLOOR RECEPTACLE

CEILING MOUNTED DUPLEX RECEPTACLE

C CONDUIT

W EXPOSED LOW VOLTAGE WIRING

HORIZONTAL NON-METALLIC WIREWAY WITH DATA JACK OUTLETS AND ISOLATED GROUND TYPE DUPLEX RECEPTACLES

VERTICAL NON-METALLIC WIREWAY WITH DATA JACK OUTLETS AND ISOLATED GROUND TYPE DUPLEX RECEPTACLES

WM WIRE MOLD

J. JUNCTION BOX

- F FIRE SYSTEM
- S SECURITY SYSTEM

DISCONNECT SWITCH

WP DISCONNECT SWITCH - WEATHER PROOF (NEMA 3R)

F FUSED DISCONNECT SWITCH

COMBINATION FUSED DISCONNECT/ MAGNETIC STARTER SWITCH

- HOA HAND/OFF/AUTO
- SS START/STOP

M MANUAL STARTER

VFD COMBINATION VARIABLE FREQUENCY DRIVE AND DISCONNECT

VFD VARIABLE FREQUENCY DRIVE

ST/SP PUSHBUTTON - START, STOP

ST/SP/PL PUSHBUTTON - START, STOP, WITH PILOT LIGHT

UP/DN/SP PUSHBUTTON - UP, DOWN, STOP

EF-1 MOTOR WITH DESIGNATOR

PO DOOR POWER OPERATOR

TC TIME CLOCK

HD HAND DRYER, HARD WIRED

HVP1-6 BRANCH CIRCUIT HOME RUN WITH PANEL NAME AND CIRCUIT NUMBER, QUANTITY OF ARROWHEADS DENOTES QUANTITY OF BRANCH CIRCUITS

- GFI BKR. GFI TYPE BREAKER
- A.F. BKR. ARC FAULT BREAKER

BRANCH CIRCUIT WIRING, PROVIDE QUANTITIES OF CONDUCTORS REQUIRED FOR CIRCUITING AND SWITCHING AS INDICATED

POWER LEG ONLY (NO SWITCH LEG BETWEEN ROOMS)

HARDWIRE CONNECTION

CONDUIT RISER UP

CONDUIT RISER DOWN

T TRANSFORMER

TK TYPE "K" TRANSFORMER

MUSHROOM HEAD PUSH BUTTON (EMERGENCY STOP)

EMERGENCY BREAK GLASS STATION

GROUNDING ROD

SINGLE LINE DIAGRAM LEGEND:

EARTH GROUND

CHASSIS GROUND

KVA 208/120:480V TRANSFORMER - KVA, PRIMARY AND SECONDARY VOLTAGE INDICATED. CONNECTIONS, K-RATING, AND SHIELD SPECIFIED

CURRENT TRANSFORMER

POTENTIAL TRANSFORMER

FUSE

DISCONNECT/LOADBREAK SWITCH

CIRCUIT BREAKER

CIRCUIT BREAKER DRAWOUT MOUNTED (LOW VOLTAGE)

AUTOMATIC TRANSFER SWITCH (NORMAL POSITION SHOWN)

M METER

ENCLOSED CIRCUIT BREAKER

LIGHTNING ARRESTER

FUSED DISCONNECT SWITCH

PANEL PANELBOARD- RATINGS AS SPECIFIED IN SINGLE LINE DIAGRAM AND ON PANELBOARD SCHEDULE

COMMUNICATIONS LEGEND:

* TELEPHONE DROP

- (NONE) STANDARD MODULAR JACK FOR TELEPHONE
- W WALL MOUNTED TELEPHONE MODULAR JACK
- P PUBLIC TELEPHONE MODULAR JACK
- C COUNTER HEIGHT MODULAR JACK

TELEPHONE FLOOR DROP

DATA DROP

COMPUTER FLOOR DROP

COMBINATION TELEPHONE/DATA DROP

WAP WIRELESS ACCESS POINT

WT WIRELESS TRANSMITTER

DATA RACK

TV COAX CABLE DROP

P CEILING MOUNT LCD PROJECTOR

S SPEAKER (PUBLIC ADDRESS)

- (NONE) CEILING MOUNTED
- W WALL MOUNTED

SPEAKER (LOCAL SOUND SYSTEM)

SPEAKER HORN

M MICROPHONE JACK

SJ SPEAKER JACK

V VOLUME CONTROL

CLOCK

DOUBLE FACE CLOCK

C S COMBINATION CLOCK AND SPEAKER

IC INTERCOM STATION

PA MIC REMOTE PRE-AMPLIFIER AND PAGING MICROPHONE

CJ CONSOLE JACK

HL HOUSE LIGHT CONTROL STATION

WB WALL BOX AS SPECIFIED

FB FLOOR BOX

NOTE:

SYMBOLS SHOWN ON THIS ELECTRICAL SYMBOLS LIST ARE FOR REFERENCE PURPOSES ONLY. ALL OF THESE SYMBOLS MAY NOT BE USED FOR THIS PROJECT.

FIRE/LIFE SAFETY LEGEND:

F FIRE ALARM PULL STATION

FB FIRE ALARM BELL

H FIRE ALARM HORN

FIRE ALARM HORN AND STROBE COMBINATION

WP FIRE ALARM HORN AND STROBE COMBINATION, WEATHER PROOF

S FIRE ALARM SPEAKER

SC FIRE ALARM SPEAKER - CEILING MOUNTED

FIRE ALARM SPEAKER AND STROBE COMBINATION

F FIRE ALARM STROBE

F FIRE ALARM STROBE - CEILING MOUNTED

SMOKE DETECTOR

WG SMOKE DETECTOR WITH GUARD

CO CARBON MONOXIDE DETECTOR

CH4 NATURAL GAS SENSOR

HEAT DETECTOR

COMBINATION SMOKE/HEAT DETECTOR

F HEAT DETECTOR - 190° FIXED TEMPERATURE

EXP HEAT DETECTOR - EXPLOSION PROOF

BT BEAM SMOKE DETECTOR TRANSMITTER

BR BEAM SMOKE DETECTOR RECEIVER

* DUCT DETECTOR

- SA INDICATES INSTALLATION IN SUPPLY AIR
- RA INDICATES INSTALLATION IN RETURN AIR

RTS REMOTE TEST STATION FOR DUCT DETECTOR

R FIRE ALARM SHUT DOWN RELAY

DH FIRE DOOR HOLD OPEN

VS TAMPER SWITCH

WF FLOW SWITCH

FSS FIRE SUPRESSION ANSUL SYSTEM CONNECTION

FR * SMOKE DAMPER RELAY CONNECTION

- SD/FD SMOKE DAMPER AND FIRE DAMPER
- SD SMOKE DAMPER

AIM CONTROL MODULE, ADDRESSABLE

AREA OF RESCUE CALL STATION

ADA AREA OF RESCUE MASTER TELEPHONE STATION

SECURITY LEGEND:

KP SECURITY KEY PAD

C VIDEO CAMERA

VM CCTV VIDEO MONITOR

MD PASSIVE INFRARED MOTION DETECTOR

PR PROXIMITY CARD READER

C CALL SWITCH

DC DOOR CONTACT

WC WINDOW CONTACT

ES ELECTRIC STRIKE DOOR RELEASE

ML MAGNETIC DOOR RELEASE

NURSE CALL LEGEND:

CB NURSE CALL BUTTON

P NURSE CALL PATIENT BED STATION

B CODE CALL BUTTON

SA NURSE CALL STAFF ASSIST STATION

S NURSE CALL STAFF STATION

SD NURSE CALL DUTY/STAFF STATION

D NURSE CALL DUTY STATION

HN NURSE CALL LIGHT

HC NURSE CALL CODE LIGHT

HZ NURSE CALL ZONE LIGHT

M NURSE CALL MASTER STATION

E NURSE CALL EMERGENCY PULL STATION

IR NURSE CALL INFRARED SENSOR

LIGHT FIXTURE LEGEND:

XX LIGHTING FIXTURE (SEE LIGHTING FIXTURE SCHEDULE FOR LETTER DESIGNATION AND DESCRIPTION OF FIXTURES)

EMERGENCY AND/OR NIGHT LIGHT LIGHTING FIXTURE

EXIT LIGHTING FIXTURE UNIVERSAL MOUNT, SINGLE/DOUBLE FACE (WHERE USED, ARROW INDICATES CHEVRON DIRECTION)

BATTERY POWERED EMERGENCY LIGHT

EMERGENCY LIGHT REMOTE HEAD

TRACK LIGHTING

POLE MOUNTED LIGHTING (QUANTITY AND ORIENTATION OF HEADS AS SHOWN)

OS OCCUPANCY SENSOR - CEILING MOUNTED

OSW OCCUPANCY SENSOR - WALL MOUNTED

LC LIGHTING CONTACTOR

PC PHOTOCELL

PANEL LEGEND:

EXISTING ELECTRICAL PANEL

XXX NEW ELECTRICAL PANEL

- MDP MAIN DISTRIBUTION PANEL
- LVP LOW VOLTAGE PANEL
- HVP HIGH VOLTAGE PANEL
- LP LIGHTING CONTROL PANEL
- IG ISOLATED GROUND PANEL
- MSB MAIN SWITCH BOARD
- MCC MOTOR CONTROL CENTER
- TVSS TRANSIENT VOLTAGE SURGE SUPPRESSION

ATS AUTOMATIC TRANSFER SWITCH

XXX ELECTRICAL SYSTEMS PANEL

- SACP SECURITY ALARM CONTROL PANEL
- FACP FIRE ALARM CONTROL PANEL
- PA PUBLIC ADDRESS CONTROL PANEL
- FAAP FIRE ALARM ANNUNCIATOR PANEL

ELECTRICAL PANELBOARD LABELING PLACARD

LINE 1 - PANELBOARD NAME: PP1 (EXAMPLE)
LINE 2 - VOLTAGE AND PHASE: 480/277V-3PH-4W (EXAMPLE)
LINE 3 - WHERE PANELBOARD IS FED FROM: FF MSB BREAKER #14 (EXAMPLE)

GENERAL ELECTRICAL NOTES:

1) HATCHED AREAS ////// DESIGNATE EXISTING EQUIPMENT TO BE REMOVED, UNLESS OTHERWISE NOTED.
2) ALL WORK TO BE DONE IN ACCORDANCE WITH THE LATEST ADOPTED EDITION OF THE NATIONAL ELECTRIC CODE (NFPA 70).
3) CONTRACTOR SHALL FIELD VERIFY ALL CONDITIONS AND COORDINATE WITH EXISTING EQUIPMENT PRIOR TO BIDDING.

BUILDING:

4) INSTALL DATA JACKS FOR CEILING MOUNTED WIRELESS TRANSMITTERS ABOVE CEILING IN ALL AREAS WHERE THERE IS AN ACCESSIBLE CEILING, UNLESS OTHERWISE NOTED. PROVIDE FLUSH MOUNTED JACKS IN ALL HARD CEILINGS.
5) ALL CONDUIT AND WIRING TO BE CONCEALED IN WALLS, FLOOR, OR ABOVE CEILINGS UNLESS OTHERWISE NOTED OR APPROVED BY THE ARCHITECT/ENGINEER. ALL DEVICE OUTLET BOXES SHALL BE RECESSED UNLESS OTHERWISE NOTED OR APPROVED BY THE ARCHITECT/ENGINEER. WHERE APPROVED OR NOTED, SURFACE METAL RACEWAY AND DEVICE BOXES SHALL BE USED IN-LIEU OF CONDUIT AND CONCEALED BOXES AT NO EXTRA COST TO THE OWNER.
6) ALL CONDUIT ROUTES SHOWN ARE APPROXIMATE ONLY. CONTRACTOR SHALL FIELD VERIFY FINAL ROUTE.
7) CONDUIT RUNS SHOWN ARE SCHEMATICAL AND DO NOT INDICATE THE NECESSARY FITTINGS AND JUNCTION BOXES THAT ARE INCLUDED IN THE SCOPE OF THE WORK.

GROUNDING:

8) ALL METAL RACEWAYS, INCLUDING CONDUIT, WIRE TROUGHS, WIREMOLD, ETC., SHALL BE GROUNDED. ALL CONNECTIONS IN METAL RACEWAYS SHALL BE COMPLETED IN SUCH A MANNER AS TO MAINTAIN A CONTINUOUS PATH TO GROUND THROUGHOUT THE ENTIRE LENGTH OF THE RACEWAY.

WIRING:

9) UNLESS NOTED OTHERWISE ON THE DRAWINGS OR ON THE EQUIPMENT WIRING SCHEDULE, EACH BRANCH CIRCUIT SHALL BE THREE (3) #12 AWG THHN/THWN (1 HOT, 1 NEUTRAL & 1 EQUIPMENT GROUND) IN 3/4" EMT CONDUIT. PROTECT EACH CIRCUIT WITH A 20 AMPERE, 1-POLE OVERCURRENT DEVICE UNLESS OTHERWISE NOTED. PROVIDE #10 AWG FOR 120V BRANCH CIRCUITS LONGER THAN 100 FEET. COMBINED NEUTRALS ARE NOT PERMITTED.

INSTALLATION HEIGHTS:

HEIGHT TO CENTER OF EQUIPMENT ABOVE FINISHED FLOOR UNLESS OTHERWISE NOTED TO BE THE FOLLOWING:

- RECEPTACLE = 18"
- SWITCH = 44"
- MODULAR JACK FOR WALL MOUNTED TELEPHONE = 52"
- MODULAR TELEPHONE JACK = 18"
- AUDIO/VISUAL FIRE ALARM INDICATORS = 88"
- FIRE ALARM PULL STATIONS = 48"
- TELEVISION OUTLET = 7'-0"
- COMPUTER OUTLET = 18"
- CALL SWITCH = 44"
- REMOTE TEST STATION FOR DUCT DETECTOR = 52"

C = ABOVE COUNTER BACKSPLASH, COORDINATE WITH ARCHITECTURAL ELEVATIONS.

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Capital Improvements Bond
Essential Infrastructure for Student Health, Safety and Success

PROJECT INFORMATION

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14457.20

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SOUTH ORANGETOWN CENTRAL SCHOOL DISTRICT

Project Name
PHASE 2: 2022 BOND

TAPPAN ZEE HIGH SCHOOL

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SED # 50-03-01-06-0-006-033

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SHEET INFORMATION

Issued 10/25/2024
Scale AS NOTED
Project Status BID DOCUMENTS
Drawn By MAY
Checked By JBT
Drawing Title
ELECTRICAL SYMBOLS LEGEND, NOTES & SYSTEM DIAGRAMS

Drawing Number
TZHS E000

1 E101 **FIRST FLOOR ELECTRICAL DEMOLITION PLAN - AREA B**

1/8" = 1'-0"

GENERAL NOTES

A. ALL ITEMS SHOWN ARE TO BE REMOVED UNLESS LABELED AS (E) EXISTING. REMOVAL OF DEVICE INCLUDES ITS ASSOCIATED CABLING/BRANCH CIRCUIT WIRING, AND RACEWAY.

B. ANY EXISTING DEVICE TO REMAIN, LABELED AS (E) SHALL REMAIN IN PLACE AS WELL AS ITS' ASSOCIATED CIRCUITING AND CONDUIT, UNLESS OTHERWISE NOTED.

C. THE CONTRACTOR SHALL REMOVE THE EXISTING ELECTRIC IN AREAS OF NEW RENOVATIONS TO ACCOMMODATE NEW CONSTRUCTION. REROUTING OF EXISTING MAY BE REQUIRED AT NEW OPENINGS IN EXISTING CONSTRUCTION OR INTERFERENCE WITH OTHER NEW WORK AS NOTED IN THE FOLLOWING NOTES.

D. DRAWINGS INDICATE SPECIFIC ITEMS TO BE REMOVED AND/OR RELOCATED IN ORDER TO INDICATE GENERAL SCOPE. ADDITIONAL ITEMS NOT INDICATED, BUT NECESSARY FOR PROJECT RENOVATIONS, SHALL BE REMOVED, RELOCATED AND/OR REROUTED. THE CONTRACTOR SHALL ASSUME WITHIN THE BASE BID A NOMINAL AMOUNT OF BRANCH CIRCUITS, FIXTURES, DEVICES, AND SYSTEMS WIRING WITHIN WALLS OR OPENINGS BEING REMOVED OR RELOCATED AS REQUIRED TO ACCOMMODATE THE NEW CONSTRUCTION.

E. WHERE DEVICES, FIXTURES, ETC. ARE INDICATED TO BE REMOVED, THEY AND THEIR RELATED WIRING/CONDUIT SHALL BE REMOVED BACK TO THE SOURCE PANELBOARD UNLESS OTHERWISE NOTED. ON CIRCUITS WHERE OTHER DEVICES, FIXTURES, ETC. ARE FOUND THAT MUST REMAIN, MAINTAIN CIRCUIT CONTINUITY BY PROVIDING ADDITIONAL WIRING, TO FEED THROUGH TO THESE REMAINING ITEMS. RELOCATE ANY CIRCUITS THAT REMAIN, TO AVOID CONFLICT WITH NEW CONSTRUCTION AS REQUIRED. PROPERLY TERMINATE ALL WIRING.

F. COORDINATE DEMOLITION OF EQUIPMENT, DEVICES, ETC. WITH OTHER DISCIPLINES AS APPLICABLE. REFER TO ARCHITECTURAL DEMOLITION DRAWINGS AND NOTES FOR COORDINATION.

G. DRAWINGS ARE GRAPHICAL REPRESENTATIONS OF APPROXIMATE EQUIPMENT AND DEVICE LOCATIONS. CONTRACTOR SHALL VISIT THE SITE TO DETERMINE THE EXACT EXTENT OF ELECTRICAL WORK REQUIRED TO COMPLETE THE PROJECT. EXISTING CONDITIONS ARE TAKEN FROM FIELD OBSERVATION AND EXISTING BUILDING DOCUMENTS. OTHER ELECTRICAL ITEMS MAY EXIST FOR WHICH THE CONTRACTOR IS RESPONSIBLE.

H. CONTRACTOR SHALL PROPERLY DISPOSE OF ALL ITEMS, EQUIPMENT, PANELS, LIGHT FIXTURES, ETC. BEING REMOVED AS PART OF THIS PROJECT. THE OWNER SHALL HAVE THE RIGHT OF RETAINING ANY ITEMS BEING REMOVED.

I. CONTRACTOR SHALL PROVIDE NEW COVERPLATES ON ALL BOXES OF UNUSED AND/OR REMOVED FLUSH MOUNT DEVICES UPON COMPLETION OF PROJECT.

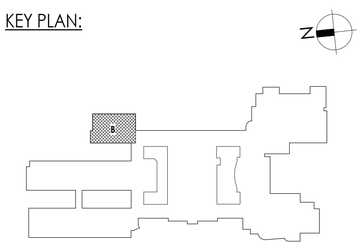
J. FIREPROOFING AND/OR FIRE STOP MATERIALS REMOVED FROM FIRE RATED WALLS AND CEILINGS AS A RESULT OF DEMOLITION SHALL BE RE-INSTALLED USING AN APPROVED METHOD AS DESCRIBED IN ASSOCIATED PROJECT SPECIFICATIONS.

K. ALL CEILING MOUNTED WIRELESS ACCESS POINTS, SPEAKERS, AND CAMERAS TO BE REMOVED AND REINSTALLED TO ACCOMMODATE CEILING WORK ARE SHOWN ON THE T-SERIES DRAWINGS.

KEY NOTES

1. DISCONNECT AND REMOVE EXISTING LIGHT FIXTURES AND SWITCHES. TAG FIXTURE AND SWITCHING CIRCUITRY FOR RE-USE.
2. DISCONNECT AND REMOVE ALL CONDUIT AND WIRING BACK TO SOURCE PANEL. LABEL CIRCUITS AS SPARE.
3. DISCONNECT AND REMOVE EXISTING RECEPTACLE FEEDING PTAC UNIT. REMOVE CONDUIT AND WIRING BACK TO SOURCE PANEL. LABEL CIRCUITS AS SPARE.
4. CEILING TO BE REMOVED AND REPLACED. DISCONNECT ALL CEILING MOUNTED DEVICES AND LIGHT FIXTURES AND STORE FOR RE-USE. TAG ALL WIRING FOR RE-USE.

KEY PLAN:



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PROFESSIONAL STAMPS

SHEET INFORMATION

Issued
10/25/2024

Scale
AS NOTED

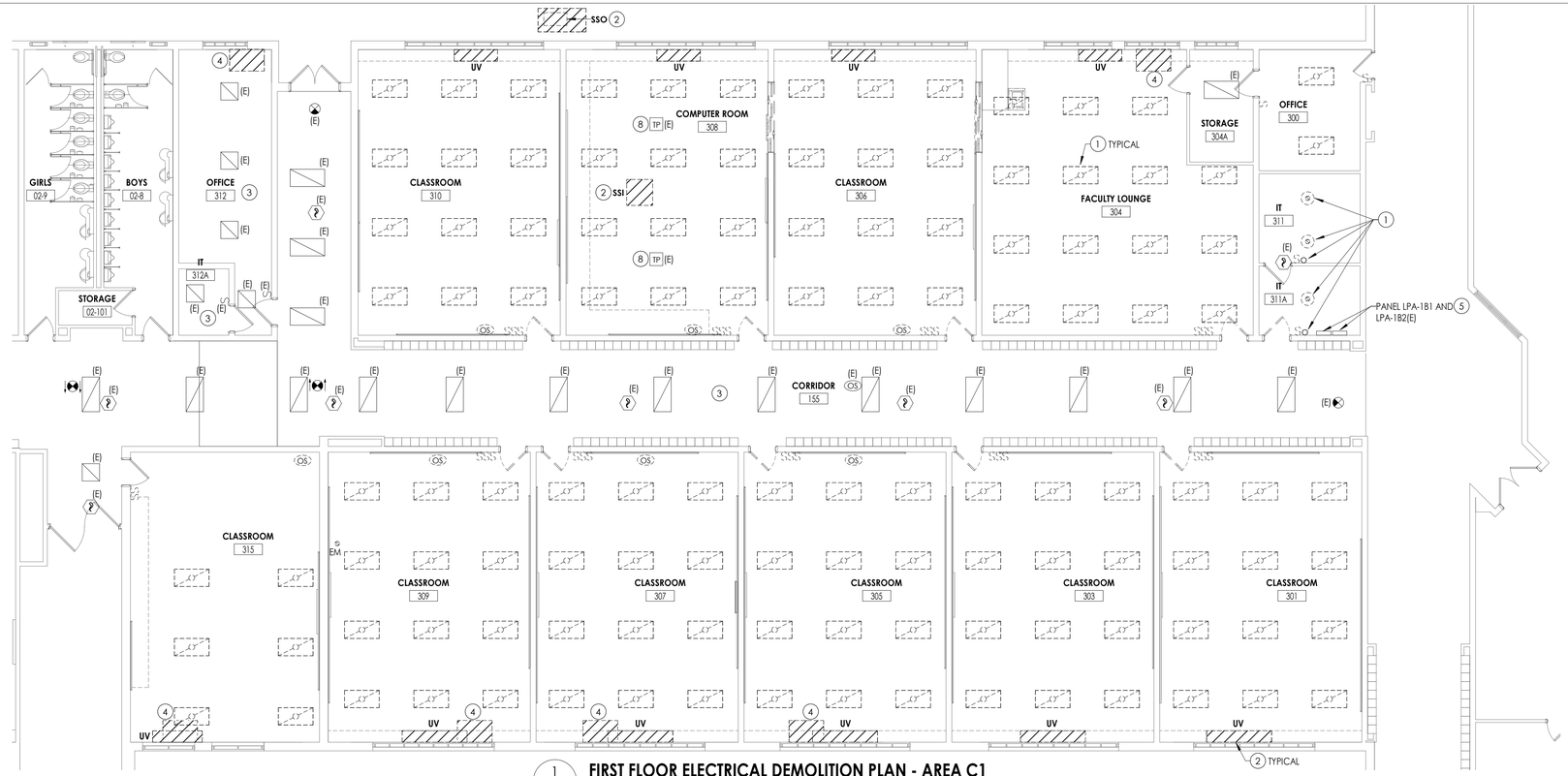
Project Status
BID DOCUMENTS

Drawn By
MAY

Checked By
JBT

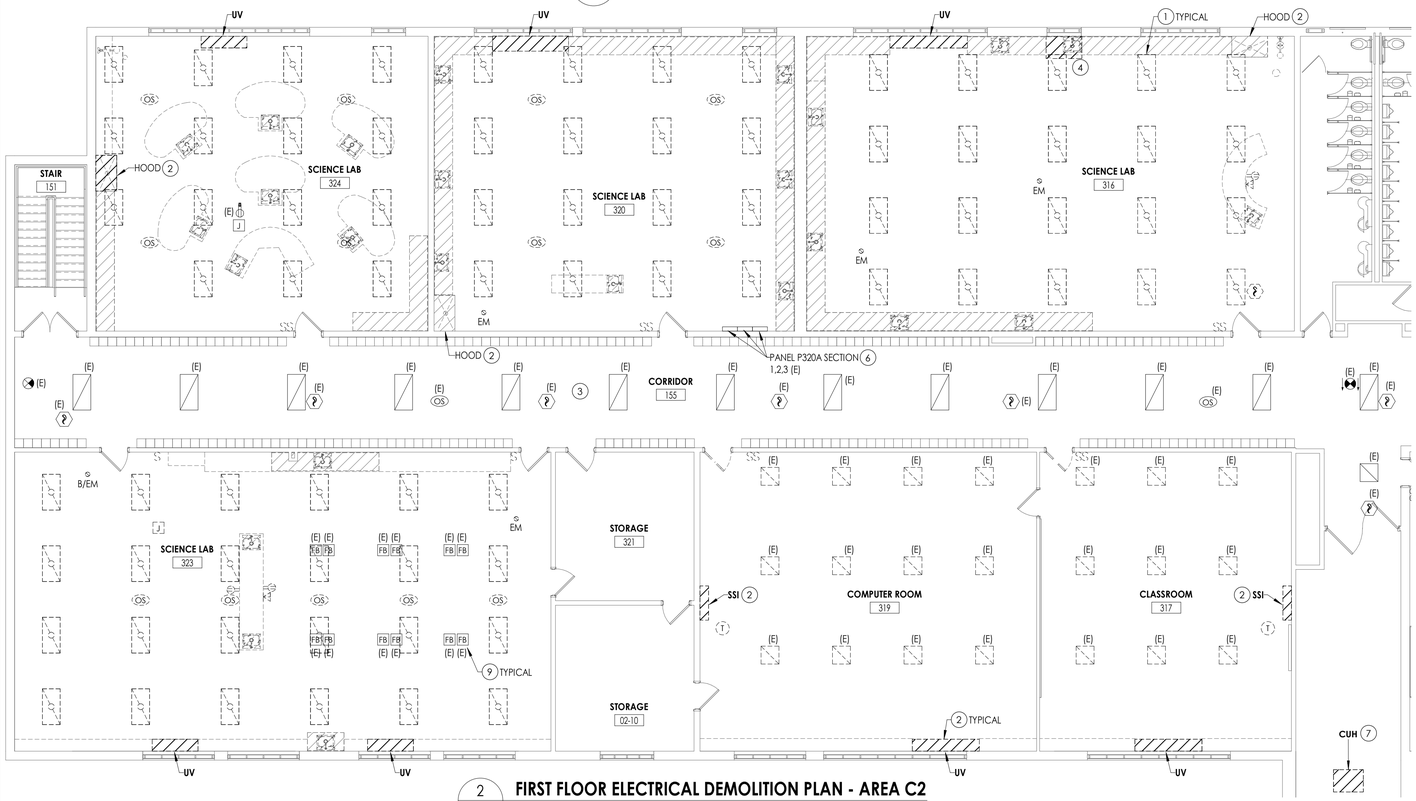
Drawing Title
FIRST FLOOR ELECTRICAL DEMOLITION PLAN - AREA B

Drawing Number
TZHS
E101



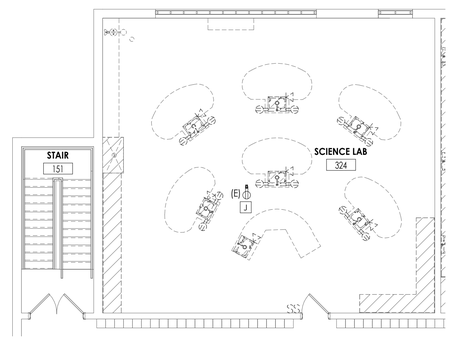
1 E102 **FIRST FLOOR ELECTRICAL DEMOLITION PLAN - AREA C1**

1/8" = 1'-0"



2 E102 **FIRST FLOOR ELECTRICAL DEMOLITION PLAN - AREA C2**

1/8" = 1'-0"



3 E102 **FIRST FLOOR ELECTRICAL DEMOLITION PLAN - AREA C2 POWER**

1/8" = 1'-0"

GENERAL NOTES

A. ALL ITEMS SHOWN ARE TO BE REMOVED UNLESS LABELED AS (E) EXISTING. REMOVAL OF DEVICE INCLUDES ITS ASSOCIATED CABLING/BRANCH CIRCUIT WIRING, AND RACEWAY.

B. ANY EXISTING DEVICE TO REMAIN, LABELED AS (E) SHALL REMAIN IN PLACE AS WELL AS ITS' ASSOCIATED CIRCUITING AND CONDUIT, UNLESS OTHERWISE NOTED.

C. THE CONTRACTOR SHALL REMOVE THE EXISTING ELECTRIC IN AREAS OF NEW RENOVATIONS TO ACCOMMODATE NEW CONSTRUCTION. REROUTING OF EXISTING MAY BE REQUIRED AT NEW OPENINGS IN EXISTING CONSTRUCTION OR INTERFERENCE WITH OTHER NEW WORK AS NOTED IN THE FOLLOWING NOTES.

D. DRAWINGS INDICATE SPECIFIC ITEMS TO BE REMOVED AND/OR RELOCATED IN ORDER TO INDICATE GENERAL SCOPE. ADDITIONAL ITEMS NOT INDICATED, BUT NECESSARY FOR PROJECT RENOVATIONS, SHALL BE REMOVED, RELOCATED AND/OR REROUTED. THE CONTRACTOR SHALL ASSUME WITHIN THE BASE BID A NOMINAL AMOUNT OF BRANCH CIRCUITS, FIXTURES, DEVICES, AND SYSTEMS WIRING WITHIN WALLS OR OPENINGS BEING REMOVED OR RELOCATED AS REQUIRED TO ACCOMMODATE THE NEW CONSTRUCTION.

E. WHERE DEVICES, FIXTURES, ETC. ARE INDICATED TO BE REMOVED, THEY AND THEIR RELATED WIRING/CONDUIT SHALL BE REMOVED BACK TO THE SOURCE PANELBOARD UNLESS OTHERWISE NOTED. ON CIRCUITS WHERE OTHER DEVICES, FIXTURES, ETC. ARE FOUND THAT MUST REMAIN, MAINTAIN CIRCUIT CONTINUITY BY PROVIDING ADDITIONAL WIRING, TO FEED THROUGH TO THESE REMAINING ITEMS. RELOCATE ANY CIRCUITS THAT REMAIN, TO AVOID CONFLICT WITH NEW CONSTRUCTION AS REQUIRED. PROPERLY TERMINATE ALL WIRING.

F. COORDINATE DEMOLITION OF EQUIPMENT, DEVICES, ETC. WITH OTHER DISCIPLINES AS APPLICABLE. REFER TO ARCHITECTURAL DEMOLITION DRAWINGS AND NOTES FOR COORDINATION.

G. DRAWINGS ARE GRAPHICAL REPRESENTATIONS OF APPROXIMATE EQUIPMENT AND DEVICE LOCATIONS. CONTRACTOR SHALL VISIT THE SITE TO DETERMINE THE EXACT EXTENT OF ELECTRICAL WORK REQUIRED TO COMPLETE THE PROJECT. EXISTING CONDITIONS ARE TAKEN FROM FIELD OBSERVATION AND EXISTING BUILDING DOCUMENTS. OTHER ELECTRICAL ITEMS MAY EXIST FOR WHICH THE CONTRACTOR IS RESPONSIBLE.

H. CONTRACTOR SHALL PROPERLY DISPOSE OF ALL ITEMS, EQUIPMENT, PANELS, LIGHT FIXTURES, ETC. BEING REMOVED AS PART OF THIS PROJECT. THE OWNER SHALL HAVE THE RIGHT OF RETAINING ANY ITEMS BEING REMOVED.

I. CONTRACTOR SHALL PROVIDE NEW COVERPLATES ON ALL BOXES OF UNUSED AND/OR REMOVED FLUSH MOUNT DEVICES UPON COMPLETION OF PROJECT.

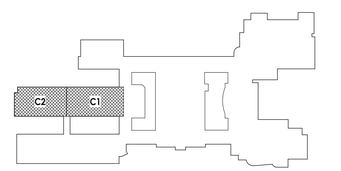
J. FIREPROOFING AND/OR FIRE STOP MATERIALS REMOVED FROM FIRE RATED WALLS AND CEILINGS AS A RESULT OF DEMOLITION SHALL BE RE-INSTALLED USING AN APPROVED METHOD AS DESCRIBED IN ASSOCIATED PROJECT SPECIFICATIONS.

K. ALL CEILING MOUNTED WIRELESS ACCESS POINTS, SPEAKERS, AND CAMERAS TO BE REMOVED AND REINSTALLED TO ACCOMMODATE CEILING WORK ARE SHOWN ON THE T-SERIES DRAWINGS.

KEY NOTES

1. DISCONNECT AND REMOVE EXISTING LIGHT FIXTURES AND SWITCHES. TAG FIXTURE AND SWITCHING CIRCUITRY FOR RE-USE.
2. DISCONNECT AND REMOVE ALL CONDUIT AND WIRING BACK TO SOURCE PANEL. LABEL CIRCUITS AS SPARE.
3. CEILING TO BE REMOVED AND REPLACED. DISCONNECT ALL CEILING MOUNTED DEVICES AND LIGHT FIXTURES AND STORE FOR RE-USE. TAG ALL WIRING FOR RE-USE.
4. DISCONNECT AND REMOVE EXISTING RECEPTACLE FEEDING PTAC UNIT. REMOVE CONDUIT AND WIRING BACK TO SOURCE PANEL. LABEL CIRCUITS AS SPARE.
5. DISCONNECT AND REMOVE CIRCUIT BREAKERS 34,36,37,39 FROM PANEL LPA-1B1 AND CIRCUIT BREAKERS 38,40 FROM PANEL LPA-1B2 TO ACCOMMODATE NEW CIRCUIT BREAKERS.
6. DISCONNECT AND REMOVE CIRCUIT BREAKERS 17,19,42 FROM PANEL 1, CIRCUIT BREAKERS 25,27 FROM PANEL 2, AND CIRCUIT BREAKERS 34,36 FROM PANEL 3 TO ACCOMMODATE NEW CIRCUIT BREAKERS.
7. DISCONNECT CONDUIT AND WIRE FROM UNIT AND TAG FOR RE-USE.
8. DISCONNECT AND REMOVE EXISTING POWER POLE TO ACCOMMODATE CEILING REMOVAL/REPLACEMENT. TAG ALL WIRING FOR RE-USE.
9. DISCONNECT AND REMOVE EXISTING POWER FLOOR BOX TO ACCOMMODATE FLOORING REMOVAL/REPLACEMENT. TAG ALL WIRING FOR RE-USE.

KEY PLAN:



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SOUTH ORANGETOWN Central School District
Capital Improvements Bond
Essential Infrastructure for Student Health, Safety and Success

PROJECT INFORMATION

Project Number
14457.20

Client Name
SOUTH ORANGETOWN CENTRAL SCHOOL DISTRICT

Project Name
PHASE 2: 2022 BOND

TAPPAN ZEE HIGH SCHOOL

Building Address
160 VAN WYCK RD., BLAUVELT, NY 10913

SED # 50-03-01-06-0-006-033

Registration Expiration Dates
Lauren Tonio 09/30/26
Anthony Marchetti 05/31/27
Dave Hart 02/28/25
Jennifer Wengender 06/30/27

PROJECT ISSUE & REVISION SCHEDULE

#	Date	Description

PROFESSIONAL STAMPS

NEW YORK STATE EDUCATION STATEMENT

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SHEET INFORMATION

Issued	Scale
10/25/2024	1/8" = 1'-0"

Project Status
BID DOCUMENTS

Drawn By	Checked By
MAY	JBT

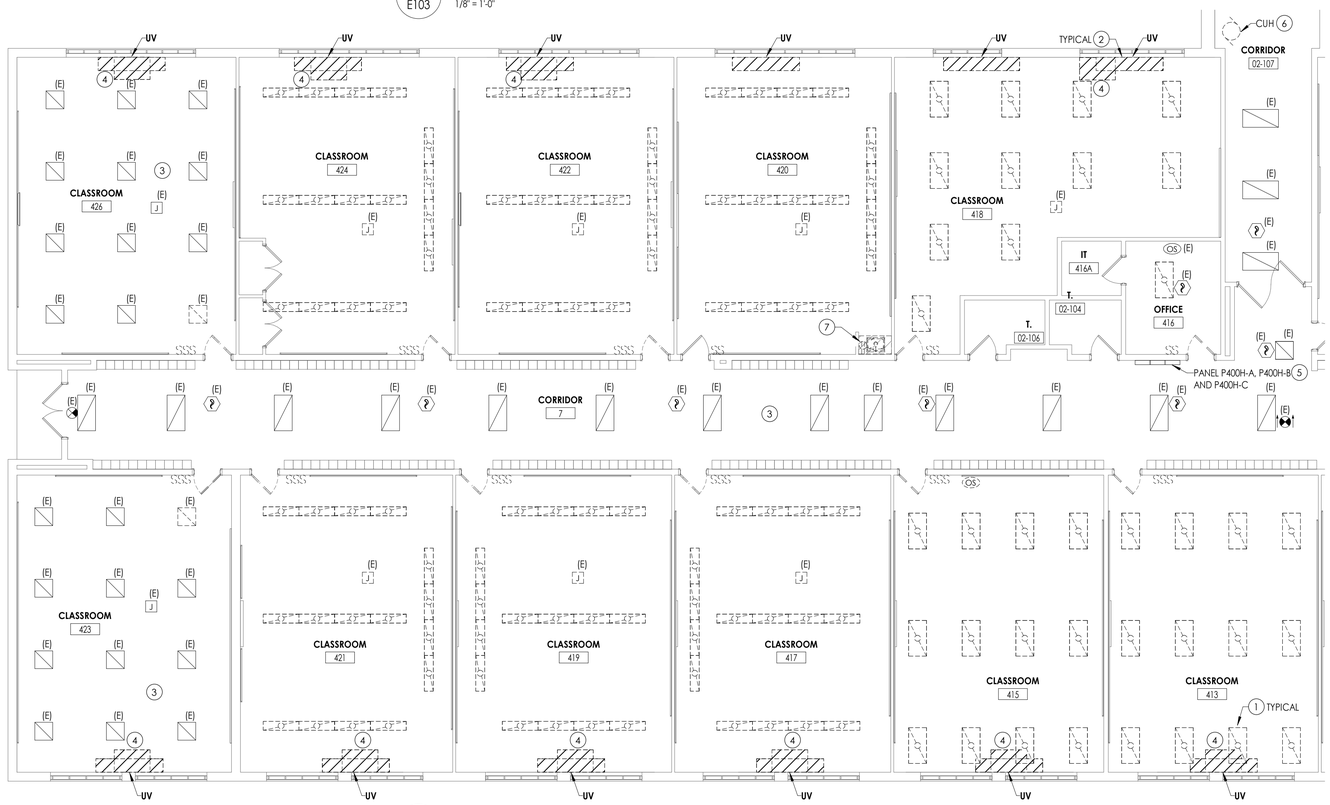
Drawing Title
FIRST FLOOR ELECTRICAL DEMOLITION PLAN - AREA C1 AND C2

Drawing Number
TZHS
E102

10/24/2024 4:14:05 PM <project location>\REVIT PROJECT FILES ON BIM 360

1 / E103 **FIRST FLOOR ELECTRICAL DEMOLITION PLAN - AREA D1**

1/8" = 1'-0"



2 / E103 **FIRST FLOOR ELECTRICAL DEMOLITION PLAN - AREA D2**

1/8" = 1'-0"

GENERAL NOTES

A. ALL ITEMS SHOWN ARE TO BE REMOVED UNLESS LABELED AS (E) EXISTING. REMOVAL OF DEVICE INCLUDES ITS ASSOCIATED CABLING/BRANCH CIRCUIT WIRING, AND RACEWAY.

B. ANY EXISTING DEVICE TO REMAIN, LABELED AS (E) SHALL REMAIN IN PLACE AS WELL AS ITS' ASSOCIATED CIRCUITING AND CONDUIT, UNLESS OTHERWISE NOTED.

C. THE CONTRACTOR SHALL REMOVE THE EXISTING ELECTRIC IN AREAS OF NEW RENOVATIONS TO ACCOMMODATE NEW CONSTRUCTION. REROUTING OF EXISTING MAY BE REQUIRED AT NEW OPENINGS IN EXISTING CONSTRUCTION OR INTERFERENCE WITH OTHER NEW WORK AS NOTED IN THE FOLLOWING NOTES.

D. DRAWINGS INDICATE SPECIFIC ITEMS TO BE REMOVED AND/OR RELOCATED IN ORDER TO INDICATE GENERAL SCOPE. ADDITIONAL ITEMS NOT INDICATED, BUT NECESSARY FOR PROJECT RENOVATIONS, SHALL BE REMOVED, RELOCATED AND/OR REROUTED. THE CONTRACTOR SHALL ASSUME WITHIN THE BASE BID A NOMINAL AMOUNT OF BRANCH CIRCUITS, FIXTURES, DEVICES, AND SYSTEMS WIRING WITHIN WALLS OR OPENINGS BEING REMOVED OR RELOCATED AS REQUIRED TO ACCOMMODATE THE NEW CONSTRUCTION.

E. WHERE DEVICES, FIXTURES, ETC. ARE INDICATED TO BE REMOVED, THEY AND THEIR RELATED WIRING/CONDUIT SHALL BE REMOVED BACK TO THE SOURCE PANELBOARD UNLESS OTHERWISE NOTED. ON CIRCUITS WHERE OTHER DEVICES, FIXTURES, ETC. ARE FOUND THAT MUST REMAIN, MAINTAIN CIRCUIT CONTINUITY BY PROVIDING ADDITIONAL WIRING, TO FEED THROUGH TO THESE REMAINING ITEMS. RELOCATE ANY CIRCUITS THAT REMAIN, TO AVOID CONFLICT WITH NEW CONSTRUCTION AS REQUIRED. PROPERLY TERMINATE ALL WIRING.

F. COORDINATE DEMOLITION OF EQUIPMENT, DEVICES, ETC. WITH OTHER DISCIPLINES AS APPLICABLE. REFER TO ARCHITECTURAL DEMOLITION DRAWINGS AND NOTES FOR COORDINATION.

G. DRAWINGS ARE GRAPHICAL REPRESENTATIONS OF APPROXIMATE EQUIPMENT AND DEVICE LOCATIONS. CONTRACTOR SHALL VISIT THE SITE TO DETERMINE THE EXACT EXTENT OF ELECTRICAL WORK REQUIRED TO COMPLETE THE PROJECT. EXISTING CONDITIONS ARE TAKEN FROM FIELD OBSERVATION AND EXISTING BUILDING DOCUMENTS. OTHER ELECTRICAL ITEMS MAY EXIST FOR WHICH THE CONTRACTOR IS RESPONSIBLE.

H. CONTRACTOR SHALL PROPERLY DISPOSE OF ALL ITEMS, EQUIPMENT, PANELS, LIGHT FIXTURES, ETC. BEING REMOVED AS PART OF THIS PROJECT. THE OWNER SHALL HAVE THE RIGHT OF RETAINING ANY ITEMS BEING REMOVED.

I. CONTRACTOR SHALL PROVIDE NEW COVERPLATES ON ALL BOXES OF UNUSED AND/OR REMOVED FLUSH MOUNT DEVICES UPON COMPLETION OF PROJECT.

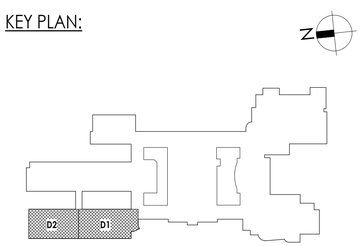
J. FIREPROOFING AND/OR FIRE STOP MATERIALS REMOVED FROM FIRE RATED WALLS AND CEILINGS AS A RESULT OF DEMOLITION SHALL BE RE-INSTALLED USING AN APPROVED METHOD AS DESCRIBED IN ASSOCIATED PROJECT SPECIFICATIONS.

K. ALL CEILING MOUNTED WIRELESS ACCESS POINTS, SPEAKERS, AND CAMERAS TO BE REMOVED AND REINSTALLED TO ACCOMMODATE CEILING WORK ARE SHOWN ON THE T-SERIES DRAWINGS.

KEY NOTES

1. DISCONNECT AND REMOVE EXISTING LIGHT FIXTURES AND SWITCHES. TAG FIXTURE AND SWITCHING CIRCUITRY FOR RE-USE.
2. DISCONNECT AND REMOVE ALL CONDUIT AND WIRING BACK TO SOURCE PANEL. LABEL CIRCUITS AS SPARE.
3. CEILING TO BE REMOVED AND REPLACED. DISCONNECT ALL CEILING MOUNTED DEVICES AND LIGHT FIXTURES AND STORE FOR RE-USE. TAG ALL WIRING FOR RE-USE.
4. DISCONNECT AND REMOVE EXISTING RECEPTACLE FEEDING PTAC UNIT. REMOVE CONDUIT AND WIRING BACK TO SOURCE PANEL. LABEL CIRCUITS AS SPARE.
5. DISCONNECT AND REMOVE CIRCUIT BREAKERS 16,18,20,22,24,26,28,30,32,34,36,38,40,42 AND 35,37,39,41 FROM PANEL P400H-C TO ACCOMMODATE NEW CIRCUIT BREAKERS.
6. DISCONNECT CONDUIT AND WIRE FROM UNIT AND TAG FOR RE-USE.
7. DISCONNECT AND REMOVE RECEPTACLE AND ALL CONNECTIONS TO STOVE. REMOVE ALL CONDUIT AND WIRING BACK TO SOURCE.

KEY PLAN:



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NY ENGINEERING FIRM CERTIFICATE #0021419

SOUTH ORANGETOWN Central School District
Capital Improvements Bond
Essential Infrastructure for Student Health, Safety and Success

PROJECT INFORMATION

Project Number
14457.20

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SOUTH ORANGETOWN CENTRAL SCHOOL DISTRICT

Project Name
PHASE 2: 2022 BOND

TAPPAN ZEE HIGH SCHOOL

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SED # 50-03-01-06-0-006-033

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Anthony Marchetti 05/31/27
Dave Hart 02/28/25
Jennifer Wengender 06/30/27

PROJECT ISSUE & REVISION SCHEDULE

#	Date	Description

PROFESSIONAL STAMPS

NEW YORK STATE EDUCATION STATEMENT

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SHEET INFORMATION

Issued 10/25/2024
Scale AS NOTED
Project Status BID DOCUMENTS
Drawn By MAY
Checked By JBT
Drawing Title
FIRST FLOOR ELECTRICAL DEMOLITION PLAN - AREA D1 AND D2
Drawing Number
TZHS
E103

1 E104 **GROUND FLOOR ELECTRICAL DEMOLITION PLAN - AREA F**

1/8" = 1'-0"

GENERAL NOTES

A. ALL ITEMS SHOWN ARE TO BE REMOVED UNLESS LABELED AS (E) EXISTING. REMOVAL OF DEVICE INCLUDES ITS ASSOCIATED CABLING/BRANCH CIRCUIT WIRING, AND RACEWAY.

B. ANY EXISTING DEVICE TO REMAIN, LABELED AS (E) SHALL REMAIN IN PLACE AS WELL AS ITS' ASSOCIATED CIRCUITING AND CONDUIT, UNLESS OTHERWISE NOTED.

C. THE EXISTING FIRE ALARM SYSTEM SHALL BE REMOVED IN ITS ENTIRETY UNLESS OTHERWISE NOTED. WORK INCLUDES BUT IS NOT LIMITED TO ALL NOTIFICATION AND INITIATING DEVICES, FIRE ALARM CONTROL PANEL, NOTIFICATION APPLIANCE PANELS, AND ALL ASSOCIATED CABLING.

D. ALL EXISTING ACCESS CONTROL AND CCTV DEVICES AND EQUIPMENT SHALL BE REMOVED AND SALVAGED BY OWNER. ANY ASSOCIATED CABLING AND/OR CIRCUITING SHALL BE REMOVED BY THE CONTRACTOR.

E. THE CONTRACTOR SHALL REMOVE THE EXISTING ELECTRIC IN AREAS OF NEW RENOVATIONS TO ACCOMMODATE NEW CONSTRUCTION. REROUTING OF EXISTING MAY BE REQUIRED AT NEW OPENINGS IN EXISTING CONSTRUCTION OR INTERFERENCE WITH OTHER NEW WORK AS NOTED IN THE FOLLOWING NOTES.

F. DRAWINGS INDICATE SPECIFIC ITEMS TO BE REMOVED AND/OR RELOCATED IN ORDER TO INDICATE GENERAL SCOPE. ADDITIONAL ITEMS NOT INDICATED, BUT NECESSARY FOR PROJECT RENOVATIONS, SHALL BE REMOVED, RELOCATED AND/OR REROUTED. THE CONTRACTOR SHALL ASSUME WITHIN THE BASE BID A NOMINAL AMOUNT OF BRANCH CIRCUITS, FIXTURES, DEVICES, AND SYSTEMS WIRING WITHIN WALLS OR OPENINGS BEING REMOVED OR RELOCATED AS REQUIRED TO ACCOMMODATE THE NEW CONSTRUCTION.

G. WHERE DEVICES, FIXTURES, ETC. ARE INDICATED TO BE REMOVED, THEY AND THEIR RELATED WIRING/CONDUIT SHALL BE REMOVED BACK TO THE SOURCE PANELBOARD UNLESS OTHERWISE NOTED. ON CIRCUITS WHERE OTHER DEVICES, FIXTURES, ETC. ARE FOUND THAT MUST REMAIN, MAINTAIN CIRCUIT CONTINUITY BY PROVIDING ADDITIONAL WIRING, TO FEED THROUGH TO THESE REMAINING ITEMS. RELOCATE ANY CIRCUITS THAT REMAIN, TO AVOID CONFLICT WITH NEW CONSTRUCTION AS REQUIRED, PROPERLY TERMINATE ALL WIRING.

H. COORDINATE DEMOLITION OF EQUIPMENT, DEVICES, ETC. WITH OTHER DISCIPLINES AS APPLICABLE. REFER TO ARCHITECTURAL DEMOLITION DRAWINGS AND NOTES FOR COORDINATION.

I. DRAWINGS ARE GRAPHICAL REPRESENTATIONS OF APPROXIMATE EQUIPMENT AND DEVICE LOCATIONS. CONTRACTOR SHALL VISIT THE SITE TO DETERMINE THE EXACT EXTENT OF ELECTRICAL WORK REQUIRED TO COMPLETE THE PROJECT. EXISTING CONDITIONS ARE TAKEN FROM FIELD OBSERVATION AND EXISTING BUILDING DOCUMENTS. OTHER ELECTRICAL ITEMS MAY EXIST FOR WHICH THE CONTRACTOR IS RESPONSIBLE.

J. CONTRACTOR SHALL PROPERLY DISPOSE OF ALL ITEMS, EQUIPMENT, PANELS, LIGHT FIXTURES, ETC. BEING REMOVED AS PART OF THIS PROJECT. THE OWNER SHALL HAVE THE RIGHT OF RETAINING ANY ITEMS BEING REMOVED.

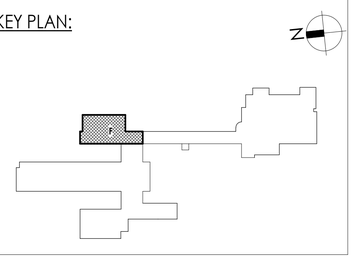
K. CONTRACTOR SHALL PROVIDE NEW COVERPLATES ON ALL BOXES OF UNUSED AND/OR REMOVED FLUSH MOUNT DEVICES UPON COMPLETION OF PROJECT.

L. FIREPROOFING AND/OR FIRE STOP MATERIALS REMOVED FROM FIRE RATED WALLS AND CEILINGS AS A RESULT OF DEMOLITION SHALL BE RE-INSTALLED USING AN APPROVED METHOD AS DESCRIBED IN ASSOCIATED PROJECT SPECIFICATIONS.

KEY NOTES

1. DISCONNECT AND REMOVE ALL CONDUIT AND WIRING FROM BOILER B-2 BACK TO SOURCE PANEL. TURN OFF CIRCUIT BREAKER AND LABEL AS SPARE.
2. DISCONNECT AND REMOVE CONDUIT AND WIRING FROM UNIT VENTILATORS. PULL CONDUIT AND WIRING BACK OUTSIDE OF DEMOLITION AND TAG FOR RE-USE.
3. DISCONNECT AND REMOVE ALL CONDUIT AND WIRING FROM INCINERATOR BACK TO SOURCE PANEL. TURN OFF CIRCUIT BREAKER AND LABEL AS SPARE.
4. DISCONNECT AND REMOVE EXISTING EXTERIOR LIGHT, EXIT/EM FIXTURE, FIRE ALARM PULL STATION, FIRE ALARM HORN/STROBE, AND ALL ASSOCIATED CONDUIT AND WIRING TO ACCOMMODATE A NEW OVERHEAD DOOR. PULL CONDUIT AND WIRING BACK TO AN AREA OUTSIDE OF DEMOLITION AND TAG FOR REUSE. STORE ALL DEVICES FOR REINSTALLATION.

KEY PLAN:



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SOUTH ORANGETOWN Central School District
Capital Improvements Bond
Essential Infrastructure for Student Health, Safety and Success

PROJECT INFORMATION

Project Number
14457.20

Client Name
SOUTH ORANGETOWN CENTRAL SCHOOL DISTRICT

Project Name
PHASE 2: 2022 BOND

TAPPAN ZEE HIGH SCHOOL

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SED # 50-03-01-06-0-006-033

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Anthony Marchetti 05/31/27
Dave Hart 02/28/25
Jennifer Wengender 06/30/27

PROJECT ISSUE & REVISION SCHEDULE

#	Date	Description

PROFESSIONAL STAMPS

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SHEET INFORMATION

Issued	Scale
10/25/2024	AS NOTED

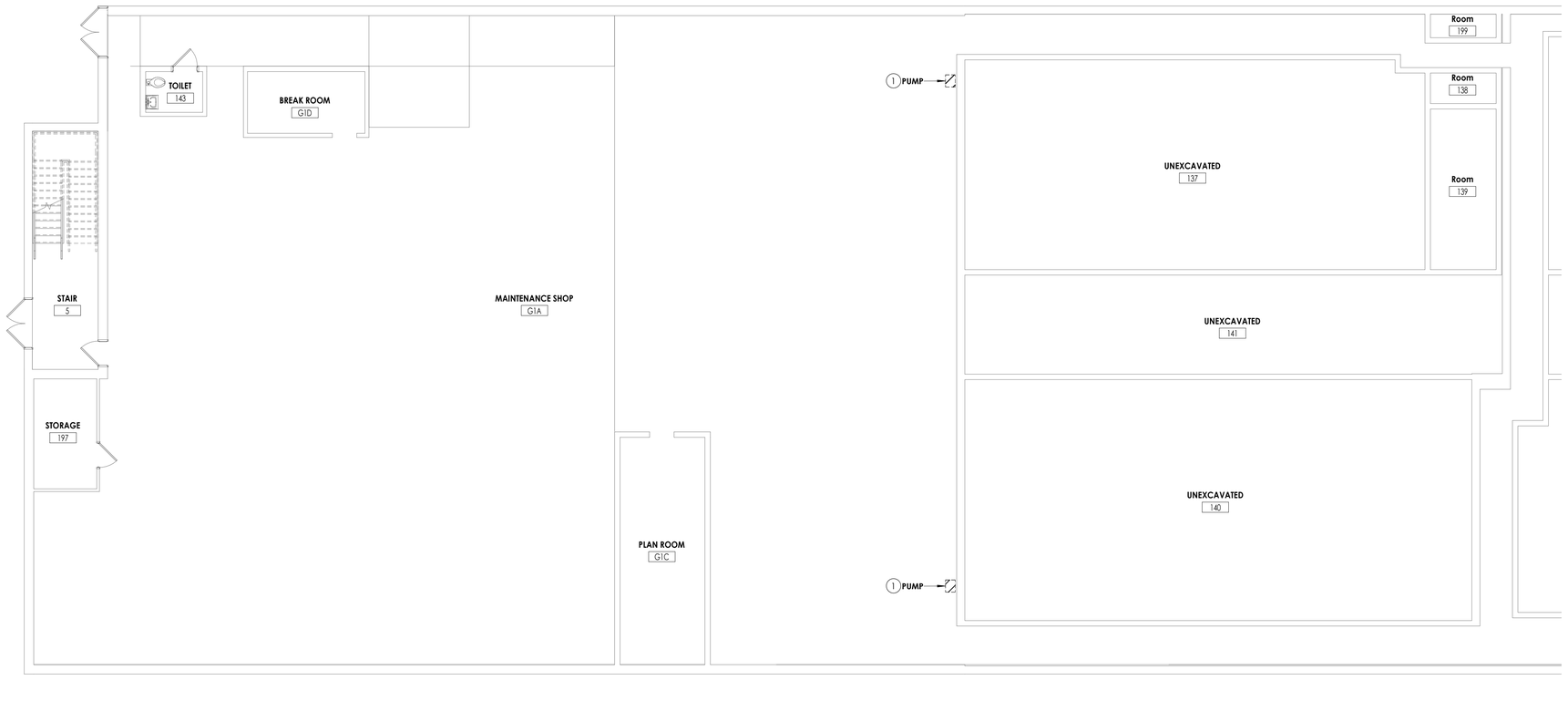
Project Status
BID DOCUMENTS

Drawn By	Checked By
MAY	JBT

Drawing Title
GROUND FLOOR ELECTRICAL DEMOLITION PLAN - AREA F

Drawing Number
TZHS
E104

10/24/2024 4:14:07 PM <project location>\REVIT PROJECT FILES ON BIM 360



1 E105 **GROUND FLOOR ELECTRICAL DEMOLITION PLAN - AREA G**
1/8" = 1'-0"

GENERAL NOTES

A. ALL ITEMS SHOWN ARE TO BE REMOVED UNLESS LABELED AS (E) EXISTING. REMOVAL OF DEVICE INCLUDES ITS ASSOCIATED CABLING/BRANCH CIRCUIT WIRING, AND RACEWAY.

B. ANY EXISTING DEVICE TO REMAIN, LABELED AS (E) SHALL REMAIN IN PLACE AS WELL AS ITS' ASSOCIATED CIRCUITING AND CONDUIT, UNLESS OTHERWISE NOTED.

C. THE CONTRACTOR SHALL REMOVE THE EXISTING ELECTRIC IN AREAS OF NEW RENOVATIONS TO ACCOMMODATE NEW CONSTRUCTION. REROUTING OF EXISTING MAY BE REQUIRED AT NEW OPENINGS IN EXISTING CONSTRUCTION OR INTERFERENCE WITH OTHER NEW WORK AS NOTED IN THE FOLLOWING NOTES.

D. DRAWINGS INDICATE SPECIFIC ITEMS TO BE REMOVED AND/OR RELOCATED IN ORDER TO INDICATE GENERAL SCOPE. ADDITIONAL ITEMS NOT INDICATED, BUT NECESSARY FOR PROJECT RENOVATIONS, SHALL BE REMOVED, RELOCATED AND/OR REROUTED. THE CONTRACTOR SHALL ASSUME WITHIN THE BASE BID A NOMINAL AMOUNT OF BRANCH CIRCUITS, FIXTURES, DEVICES, AND SYSTEMS WIRING WITHIN WALLS OR OPENINGS BEING REMOVED OR RELOCATED AS REQUIRED TO ACCOMMODATE THE NEW CONSTRUCTION.

E. WHERE DEVICES, FIXTURES, ETC., ARE INDICATED TO BE REMOVED, THEY AND THEIR RELATED WIRING/CONDUIT SHALL BE REMOVED BACK TO THE SOURCE PANELBOARD UNLESS OTHERWISE NOTED. ON CIRCUITS WHERE OTHER DEVICES, FIXTURES, ETC. ARE FOUND THAT MUST REMAIN, MAINTAIN CIRCUIT CONTINUITY BY PROVIDING ADDITIONAL WIRING, TO FEED THROUGH TO THESE REMAINING ITEMS. RELOCATE ANY CIRCUITS THAT REMAIN, TO AVOID CONFLICT WITH NEW CONSTRUCTION AS REQUIRED. PROPERLY TERMINATE ALL WIRING.

F. COORDINATE DEMOLITION OF EQUIPMENT, DEVICES, ETC. WITH OTHER DISCIPLINES AS APPLICABLE. REFER TO ARCHITECTURAL DEMOLITION DRAWINGS AND NOTES FOR COORDINATION.

G. DRAWINGS ARE GRAPHICAL REPRESENTATIONS OF APPROXIMATE EQUIPMENT AND DEVICE LOCATIONS. CONTRACTOR SHALL VISIT THE SITE TO DETERMINE THE EXACT EXTENT OF ELECTRICAL WORK REQUIRED TO COMPLETE THE PROJECT. EXISTING CONDITIONS ARE TAKEN FROM FIELD OBSERVATION AND EXISTING BUILDING DOCUMENTS. OTHER ELECTRICAL ITEMS MAY EXIST FOR WHICH THE CONTRACTOR IS RESPONSIBLE.

H. CONTRACTOR SHALL PROPERLY DISPOSE OF ALL ITEMS, EQUIPMENT, PANELS, LIGHT FIXTURES, ETC., BEING REMOVED AS PART OF THIS PROJECT. THE OWNER SHALL HAVE THE RIGHT OF RETAINING ANY ITEMS BEING REMOVED.

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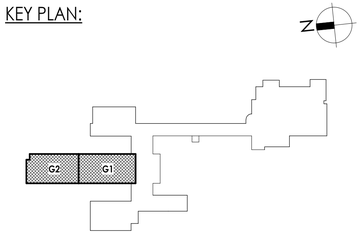
J. FIREPROOFING AND/OR FIRE STOP MATERIALS REMOVED FROM FIRE RATED WALLS AND CEILINGS AS A RESULT OF DEMOLITION SHALL BE RE-INSTALLED USING AN APPROVED METHOD AS DESCRIBED IN ASSOCIATED PROJECT SPECIFICATIONS.

KEY NOTES

(1) DISCONNECT AND REMOVE ALL CONDUIT AND WIRING BACK TO SOURCE PANEL. LABEL CIRCUIT BREAKERS AS SPARE.

KEY PLAN:



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SHEET INFORMATION

Issued: 10/25/2024
Scale: AS NOTED
Project Status: BID DOCUMENTS
Drawn By: MAY
Checked By: JBT
Drawing Title: GROUND FLOOR ELECTRICAL DEMOLITION PLAN - AREA G
Drawing Number: TZHS E105

10/24/2024 4:14:08 PM <project location>\REVIT PROJECT FILES ON BIM 360

1 E111 **ROOF - ELECTRICAL DEMOLITION PLAN - AREA B**

1/8" = 1'-0"

GENERAL NOTES

A. ALL ITEMS SHOWN ARE TO BE REMOVED UNLESS LABELED AS (E) EXISTING. REMOVAL OF DEVICE INCLUDES ITS ASSOCIATED CABLING/BRANCH CIRCUIT WIRING, AND RACEWAY.

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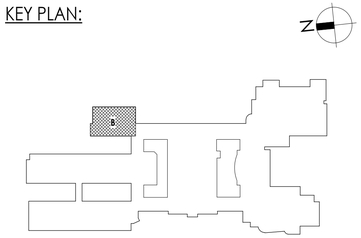
KEY NOTES

1 DISCONNECT AND REMOVE ALL CONDUIT, WIRING, DISCONNECTS IN THEIR ENTIRETY. REMOVE ALL WIRING BACK TO SOURCE. LABEL CIRCUITS AS SPARE.

KEY PLAN:



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NY ENGINEERING FIRM CERTIFICATE #0021419

SOUTH ORANGETOWN Central School District
Capital Improvements Bond
Essential Infrastructure for Student Health, Safety and Success

PROJECT INFORMATION

Project Number
1457.20

Client Name
SOUTH ORANGETOWN CENTRAL SCHOOL DISTRICT

Project Name
PHASE 2: 2022 BOND

TAPPAN ZEE HIGH SCHOOL

Building Address
160 VAN WYCK RD., BLAUVELT, NY 10913

SED # 50-03-01-06-0-006-033

Registration Expiration Dates
Lauren Tanio 09/30/26
Anthony Marchetti 05/31/27
Dave Hart 02/28/25
Jennifer Wengender 06/30/27

PROJECT ISSUE & REVISION SCHEDULE

#	Date	Description

PROFESSIONAL STAMPS

NEW YORK STATE EDUCATION STATEMENT

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SHEET INFORMATION

Issued
10/25/2024

Scale
AS NOTED

Project Status
BID DOCUMENTS

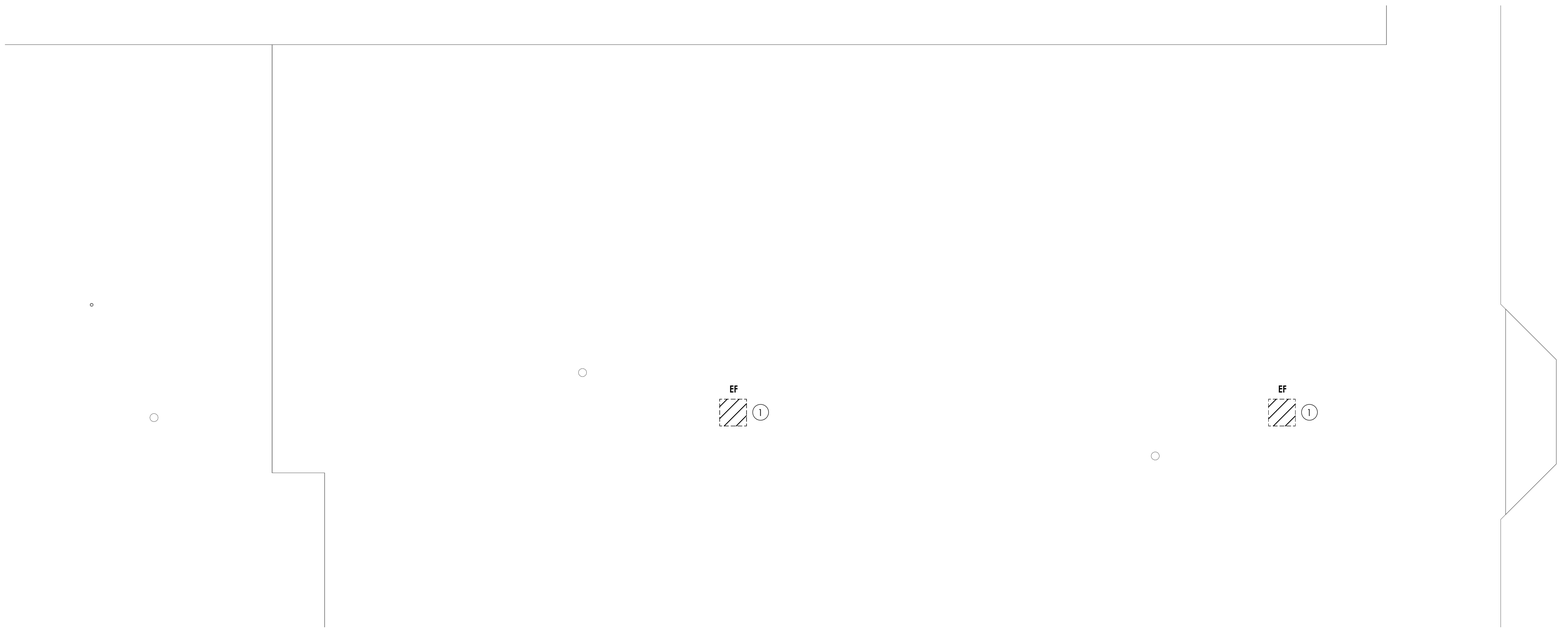
Drawn By
MAY

Checked By
JBT

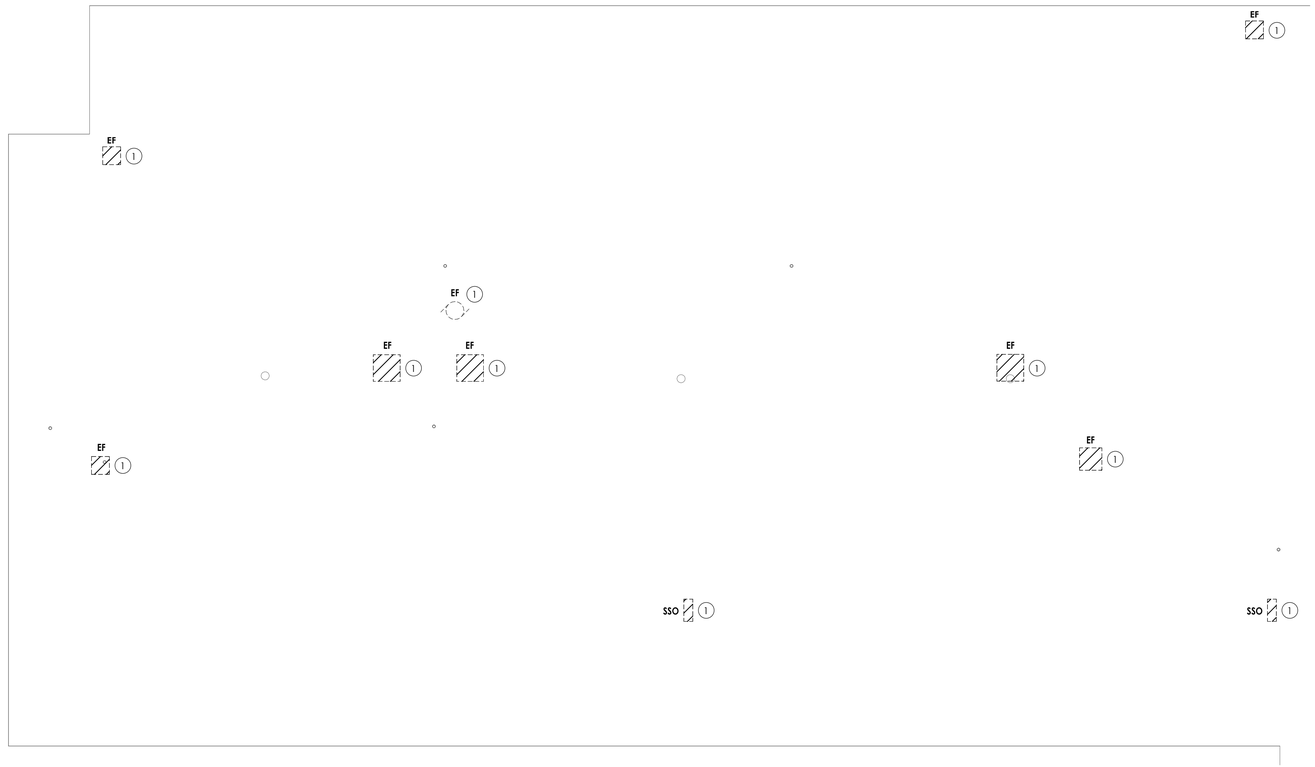
Drawing Title
ROOF ELECTRICAL DEMOLITION PLAN - AREA B

Drawing Number
TZHS
E111

10/24/2024 4:14:08 PM <project location>\REVIT PROJECT FILES ON BIM 360



1 E112 **ROOF - ELECTRICAL DEMOLITION PLAN - AREA C1**
1/8" = 1'-0"



2 E112 **ROOF - ELECTRICAL DEMOLITION PLAN - AREA C2**
1/8" = 1'-0"

GENERAL NOTES

A. ALL ITEMS SHOWN ARE TO BE REMOVED UNLESS LABELED AS (E) EXISTING. REMOVAL OF DEVICE INCLUDES ITS ASSOCIATED CABLING/BRANCH CIRCUIT WIRING, AND RACEWAY.

B. ANY EXISTING DEVICE TO REMAIN, LABELED AS (E) SHALL REMAIN IN PLACE AS WELL AS ITS' ASSOCIATED CIRCUITING AND CONDUIT, UNLESS OTHERWISE NOTED.

C. THE CONTRACTOR SHALL REMOVE THE EXISTING ELECTRIC IN AREAS OF NEW RENOVATIONS TO ACCOMMODATE NEW CONSTRUCTION. REROUTING OF EXISTING MAY BE REQUIRED AT NEW OPENINGS IN EXISTING CONSTRUCTION OR INTERFERENCE WITH OTHER NEW WORK AS NOTED IN THE FOLLOWING NOTES.

D. DRAWINGS INDICATE SPECIFIC ITEMS TO BE REMOVED AND/OR RELOCATED IN ORDER TO INDICATE GENERAL SCOPE. ADDITIONAL ITEMS NOT INDICATED, BUT NECESSARY FOR PROJECT RENOVATIONS, SHALL BE REMOVED, RELOCATED AND/OR REROUTED. THE CONTRACTOR SHALL ASSUME WITHIN THE BASE BID A NOMINAL AMOUNT OF BRANCH CIRCUITS, FIXTURES, DEVICES, AND SYSTEMS WIRING WITHIN WALLS OR OPENINGS BEING REMOVED OR RELOCATED AS REQUIRED TO ACCOMMODATE THE NEW CONSTRUCTION.

E. WHERE DEVICES, FIXTURES, ETC., ARE INDICATED TO BE REMOVED, THEY AND THEIR RELATED WIRING/CONDUIT SHALL BE REMOVED BACK TO THE SOURCE PANELBOARD UNLESS OTHERWISE NOTED. ON CIRCUITS WHERE OTHER DEVICES, FIXTURES, ETC. ARE FOUND THAT MUST REMAIN, MAINTAIN CIRCUIT CONTINUITY BY PROVIDING ADDITIONAL WIRING, TO FEED THROUGH TO THESE REMAINING ITEMS. RELOCATE ANY CIRCUITS THAT REMAIN, TO AVOID CONFLICT WITH NEW CONSTRUCTION AS REQUIRED. PROPERLY TERMINATE ALL WIRING.

F. COORDINATE DEMOLITION OF EQUIPMENT, DEVICES, ETC. WITH OTHER DISCIPLINES AS APPLICABLE. REFER TO ARCHITECTURAL DEMOLITION DRAWINGS AND NOTES FOR COORDINATION.

G. DRAWINGS ARE GRAPHICAL REPRESENTATIONS OF APPROXIMATE EQUIPMENT AND DEVICE LOCATIONS. CONTRACTOR SHALL VISIT THE SITE TO DETERMINE THE EXACT EXTENT OF ELECTRICAL WORK REQUIRED TO COMPLETE THE PROJECT. EXISTING CONDITIONS ARE TAKEN FROM FIELD OBSERVATION AND EXISTING BUILDING DOCUMENTS. OTHER ELECTRICAL ITEMS MAY EXIST FOR WHICH THE CONTRACTOR IS RESPONSIBLE.

H. CONTRACTOR SHALL PROPERLY DISPOSE OF ALL ITEMS, EQUIPMENT, PANELS, LIGHT FIXTURES, ETC. BEING REMOVED AS PART OF THIS PROJECT. THE OWNER SHALL HAVE THE RIGHT OF RETAINING ANY ITEMS BEING REMOVED.

I. CONTRACTOR SHALL PROVIDE NEW COVERPLATES ON ALL BOXES OF UNUSED AND/OR REMOVED FLUSH MOUNT DEVICES UPON COMPLETION OF PROJECT.

J. FIREPROOFING AND/OR FIRE STOP MATERIALS REMOVED FROM FIRE RATED WALLS AND CEILINGS AS A RESULT OF DEMOLITION SHALL BE RE-INSTALLED USING AN APPROVED METHOD AS DESCRIBED IN ASSOCIATED PROJECT SPECIFICATIONS.

KEY NOTES

1 DISCONNECT AND REMOVE ALL CONDUIT, WIRING, DISCONNECTS IN THEIR ENTIRETY. REMOVE ALL WIRING BACK TO SOURCE. LABEL CIRCUITS AS SPARE.

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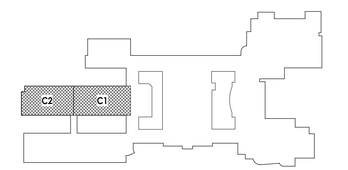

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Essential Infrastructure for Student Health, Safety and Success

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SHEET INFORMATION

Issued
10/25/2024

Scale
AS NOTED

Project Status
BID DOCUMENTS

Drawn By
MAY

Checked By
JBT

Drawing Title
ROOF ELECTRICAL DEMOLITION PLAN - AREA C1 AND C2

Drawing Number
TZHS
E112

1 E113 **ROOF - ELECTRICAL DEMOLITION PLAN - AREA D1**
1/8" = 1'-0"

2 E113 **ROOF - ELECTRICAL DEMOLITION PLAN - AREA D2**
1/8" = 1'-0"

GENERAL NOTES

A. ALL ITEMS SHOWN ARE TO BE REMOVED UNLESS LABELED AS (E) EXISTING. REMOVAL OF DEVICE INCLUDES ITS ASSOCIATED CABLING/BRANCH CIRCUIT WIRING, AND RACEWAY.

B. ANY EXISTING DEVICE TO REMAIN, LABELED AS (E) SHALL REMAIN IN PLACE AS WELL AS ITS' ASSOCIATED CIRCUITING AND CONDUIT, UNLESS OTHERWISE NOTED.

C. THE CONTRACTOR SHALL REMOVE THE EXISTING ELECTRIC IN AREAS OF NEW RENOVATIONS TO ACCOMMODATE NEW CONSTRUCTION. REROUTING OF EXISTING MAY BE REQUIRED AT NEW OPENINGS IN EXISTING CONSTRUCTION OR INTERFERENCE WITH OTHER NEW WORK AS NOTED IN THE FOLLOWING NOTES.

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KEY NOTES

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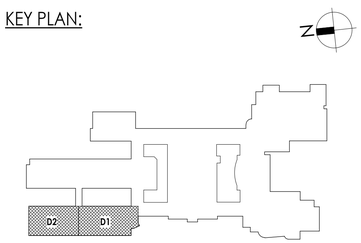

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NY ENGINEERING FIRM CERTIFICATE #0021419

SOUTH ORANGETOWN Central School District
Capital Improvements Bond
Essential Infrastructure for Student Health, Safety and Success

PROJECT INFORMATION

Project Number
14457.20

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SOUTH ORANGETOWN CENTRAL SCHOOL DISTRICT

Project Name
PHASE 2: 2022 BOND

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SHEET INFORMATION

Issued
10/25/2024

Scale
AS NOTED

Project Status
BID DOCUMENTS

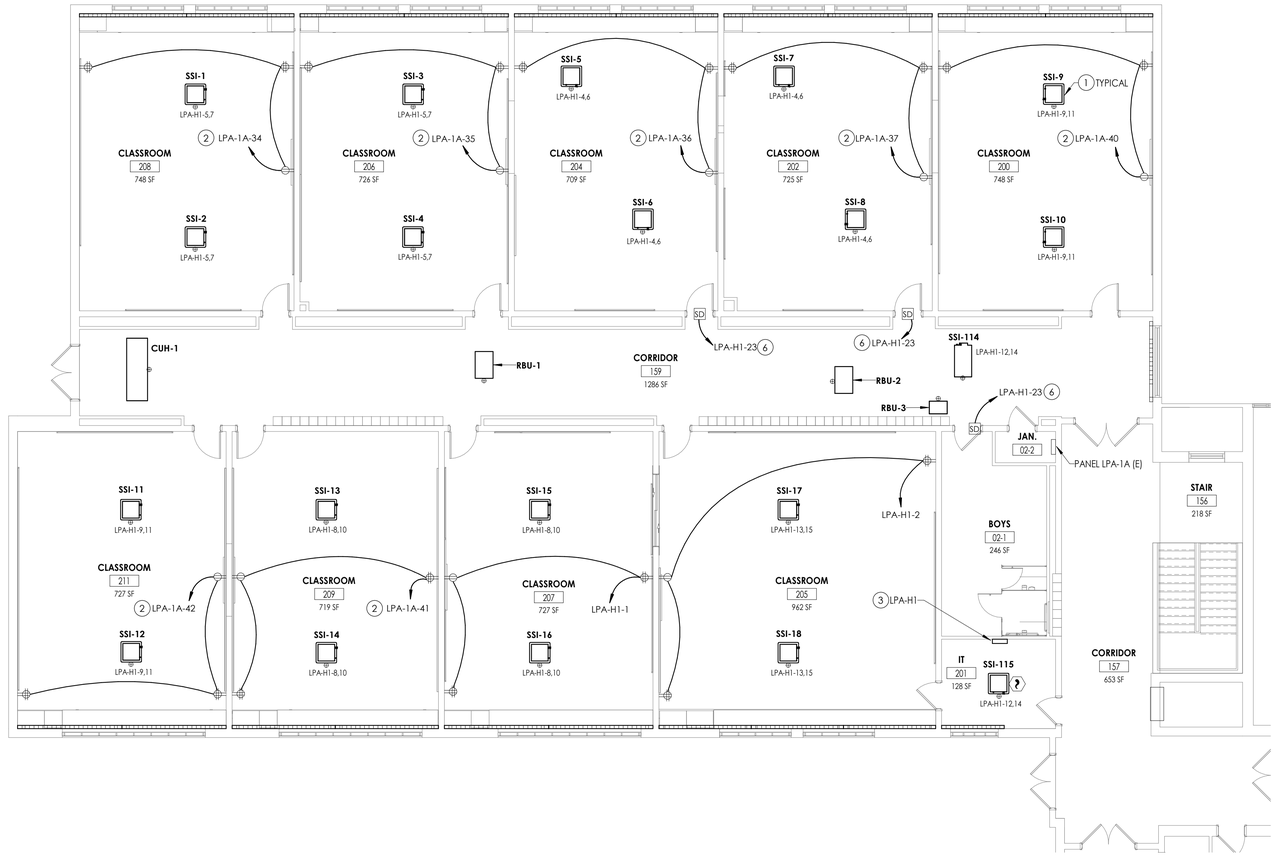
Drawn By
MAY

Checked By
JBT

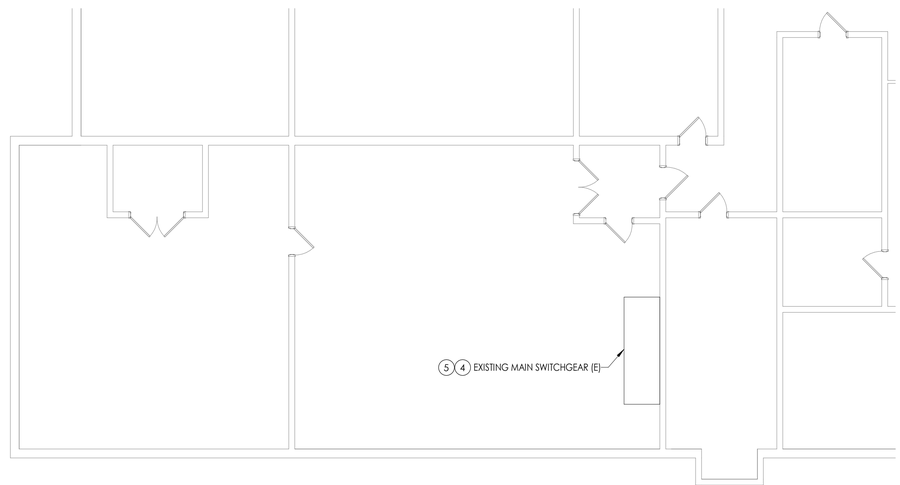
Drawing Title
ROOF ELECTRICAL DEMOLITION PLAN - AREA D1 AND D2

Drawing Number
TZHS
E113

10/24/2024 4:14:10 PM <project location>\REVIT PROJECT FILES ON BIM 360



1 FIRST FLOOR ELECTRICAL NEW WORK PLAN - AREA B
E201 — 1/8" = 1'-0"



2 GROUND FLOOR ELECTRICAL NEW WORK PLAN - AREA B
E201 — 1/8" = 1'-0"

GENERAL NOTES

A. UNLESS NOTED OTHERWISE, CONNECT NEW DEVICES SHOWN TO PANEL AND CIRCUIT BREAKER INDICATED ADJACENT TO DEVICE WITH (2) #12, (1) #12 GND IN 3/4" CONDUIT.

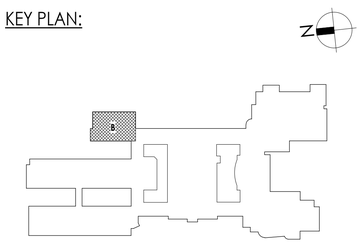
B. ALL CIRCUITS OVER 100 FEET TO BE WIRED WITH #10 THHN.

C. RECEPTACLES TO BE PLACED IN SURFACE RACEWAY. COORDINATE LOCATIONS WITH T-SERIES DRAWINGS.

KEY NOTES

1. ALL MECHANICAL EQUIPMENT POWER REQUIREMENTS ARE NOTED ON DRAWINGS E900, E901, E902. LABEL INDICATES EQUIPMENT TAG. REFER TO ELECTRICAL EQUIPMENT CONNECTION SCHEDULE ON SHEETS NOTED ABOVE.
2. CONNECT TO EXISTING 20A/1P CIRCUIT BREAKER AS NOTED. CIRCUITS ARE AVAILABLE FROM REMOVED UNIT VENTILATORS. CONFIRM AVAILABLE CIRCUITS IN FIELD ONCE UNIT VENTILATORS ARE REMOVED.
3. PROVIDE A 120/208V, 3-PHASE, 4-WIRE, 400-AMP, 54 CIRCUIT PANELBOARD AT LOCATION INDICATED. PROVIDE (4) #600 MCM, (1) #3 GND IN 4" CONDUIT FROM MDP IN BASEMENT TO NEW PANEL.
4. REMOVE (3) SPARE 3-POLE CIRCUIT BREAKERS IN EXISTING MDP AND TURN OVER TO OWNER. PROVIDE (3) 120/208V 400-AMP, 3-POLE CIRCUIT BREAKERS IN REMOVED LOCATIONS TO ACCOMMODATE NEW PANELS LPA-H1, LPA-H2, AND LPA-H3. LABEL CIRCUIT BREAKERS AS NOTED.
5. PROVIDE (1) 120/208V 2,000-AMP, 3-POLE CIRCUIT BREAKER IN EXISTING MDP, FOR NEW PANEL LPA-ERU. LABEL CIRCUIT BREAKER AS LPA-ERU.
6. PROVIDE 120-VOLT POWER TO FIRE/SMOKE DAMPERS AT LOCATIONS INDICATED. PROVIDE (2) #12, (1) #12GND IN 3/4" CONDUIT FROM PANEL/CIRCUIT INDICATED TO FIRE/SMOKE DAMPERS. PROVIDE A FIRE ALARM RELAY AT EACH FIRE/SMOKE DAMPER, AND WIRE TO FIRE ALARM CONTROL PANEL. COORDINATE ALL WORK WITH MECHANICAL CONTRACTOR.

KEY PLAN:



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SOUTH ORANGETOWN Central School District
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Essential Infrastructure for Student Health, Safety and Success

PROJECT INFORMATION

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14457.20

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SHEET INFORMATION

Issued
10/25/2024

Scale
1/8" = 1'-0"

Project Status
BID DOCUMENTS

Drawn By
MAY

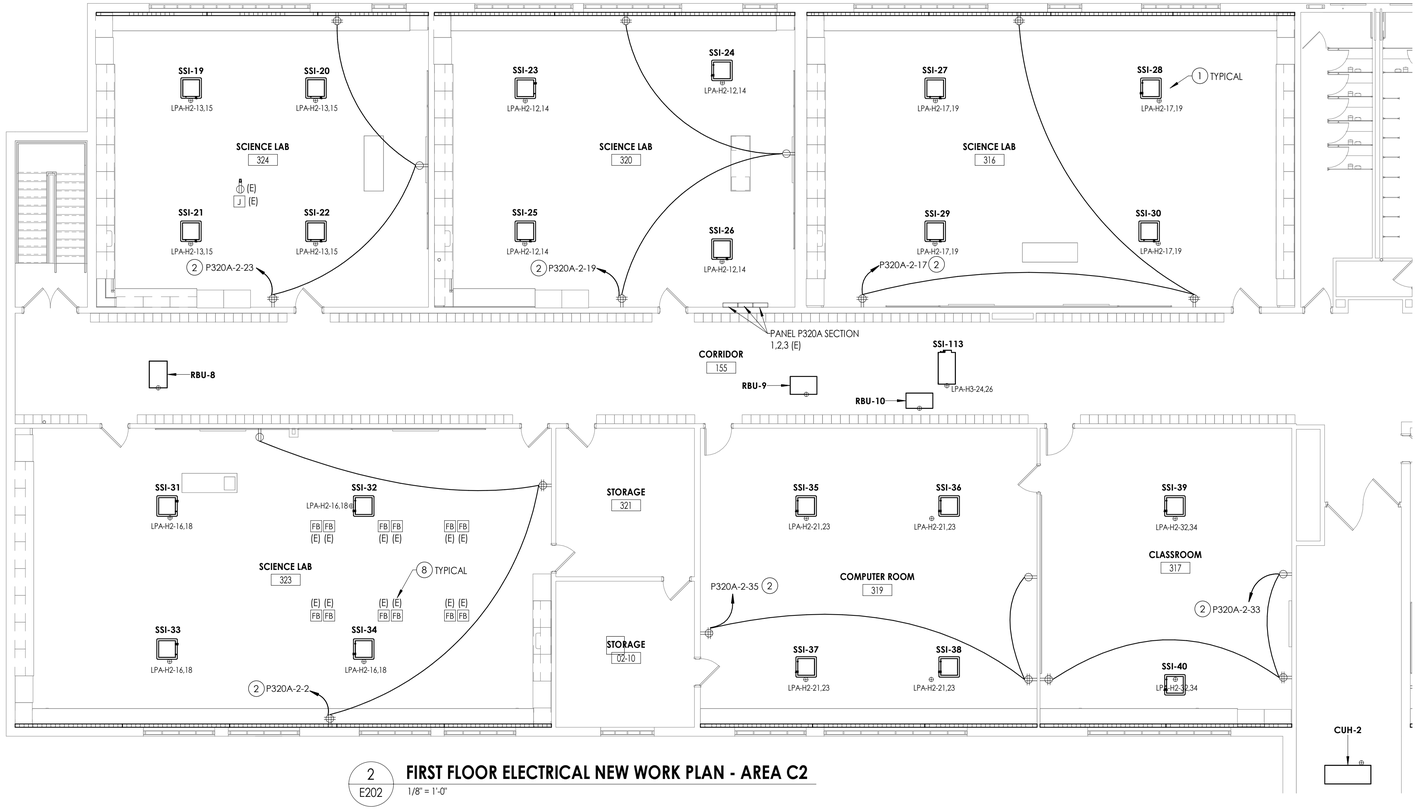
Checked By
JBT

Drawing Title
FIRST FLOOR ELECTRICAL NEW WORK PLAN - AREA B

Drawing Number
TZHS
E201

1 E202 **FIRST FLOOR ELECTRICAL NEW WORK PLAN - AREA C1**

1/8" = 1'-0"



2 E202 **FIRST FLOOR ELECTRICAL NEW WORK PLAN - AREA C2**

1/8" = 1'-0"

GENERAL NOTES

A. UNLESS NOTED OTHERWISE, CONNECT NEW DEVICES SHOWN TO PANEL AND CIRCUIT BREAKER INDICATED ADJACENT TO DEVICE WITH (2) #12, (1) #12 GND IN 3/4" CONDUIT.

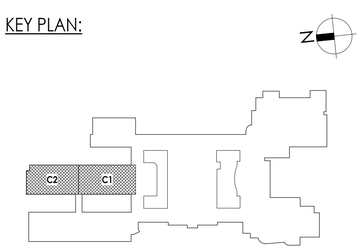
B. ALL CIRCUITS OVER 100 FEET TO BE WIRED WITH #10 THHN.

C. RECEPTACLES TO BE PLACED IN SURFACE RACEWAY. COORDINATE LOCATIONS WITH T-SERIES DRAWINGS.

KEY NOTES

1. ALL MECHANICAL EQUIPMENT POWER REQUIREMENTS ARE NOTED ON DRAWINGS E900, E901, E902. LABEL INDICATES EQUIPMENT TAG. REFER TO ELECTRICAL EQUIPMENT CONNECTION SCHEDULE ON SHEETS NOTED ABOVE.
2. CONNECT TO EXISTING 20A/1P CIRCUIT BREAKER AS NOTED. CIRCUITS ARE AVAILABLE FROM REMOVED UNIT VENTILATORS. CONFIRM AVAILABLE CIRCUITS IN FIELD ONCE UNIT VENTILATORS ARE REMOVED.
3. PROVIDE A 120/208V, 3-PHASE, 4-WIRE, 400-AMP, 54 CIRCUIT PANELBOARD AT LOCATION INDICATED. PROVIDE (4) #600 MCM, (1) #3 GND IN 4" CONDUIT FROM MDP IN BASEMENT TO NEW PANEL.
4. PROVIDE A 120/208V, 3-PHASE, 4-WIRE, 1,600-AMP, 54 CIRCUIT PANELBOARD AT LOCATION INDICATED. PROVIDE (5) SETS OF (4) #600 MCM, (1) #4/0 GND IN (5) 4" CONDUITS FROM MDP IN BASEMENT TO NEW PANEL.
5. PROVIDE 120-VOLT POWER TO FIRE/SMOKE DAMPERS AT LOCATIONS INDICATED. PROVIDE (2) #12, (1) #12GND IN 3/4" CONDUIT FROM PANEL/CIRCUIT INDICATED TO FIRE/SMOKE DAMPERS. PROVIDE A FIRE ALARM RELAY AT EACH FIRE/SMOKE DAMPER, AND WIRE TO FIRE ALARM CONTROL PANEL. COORDINATE ALL WORK WITH MECHANICAL CONTRACTOR.
6. CONNECT NEW EQUIPMENT TO TAGGED CIRCUITRY REWORK/EXTEND EXISTING CIRCUIT AS NECESSARY TO ACCOMMODATE NEW EQUIPMENT.
7. REINSTALL AND RECONNECT EXISTING POWER POLES TO TAGGED CIRCUITRY ONCE NEW CEILING IS IN PLACE.
8. REINSTALL AND RECONNECT EXISTING FLOOR BOXES TO TAGGED CIRCUITRY ONCE NEW FLOORING IS IN PLACE.

KEY PLAN:



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10/25/2024	AS NOTED

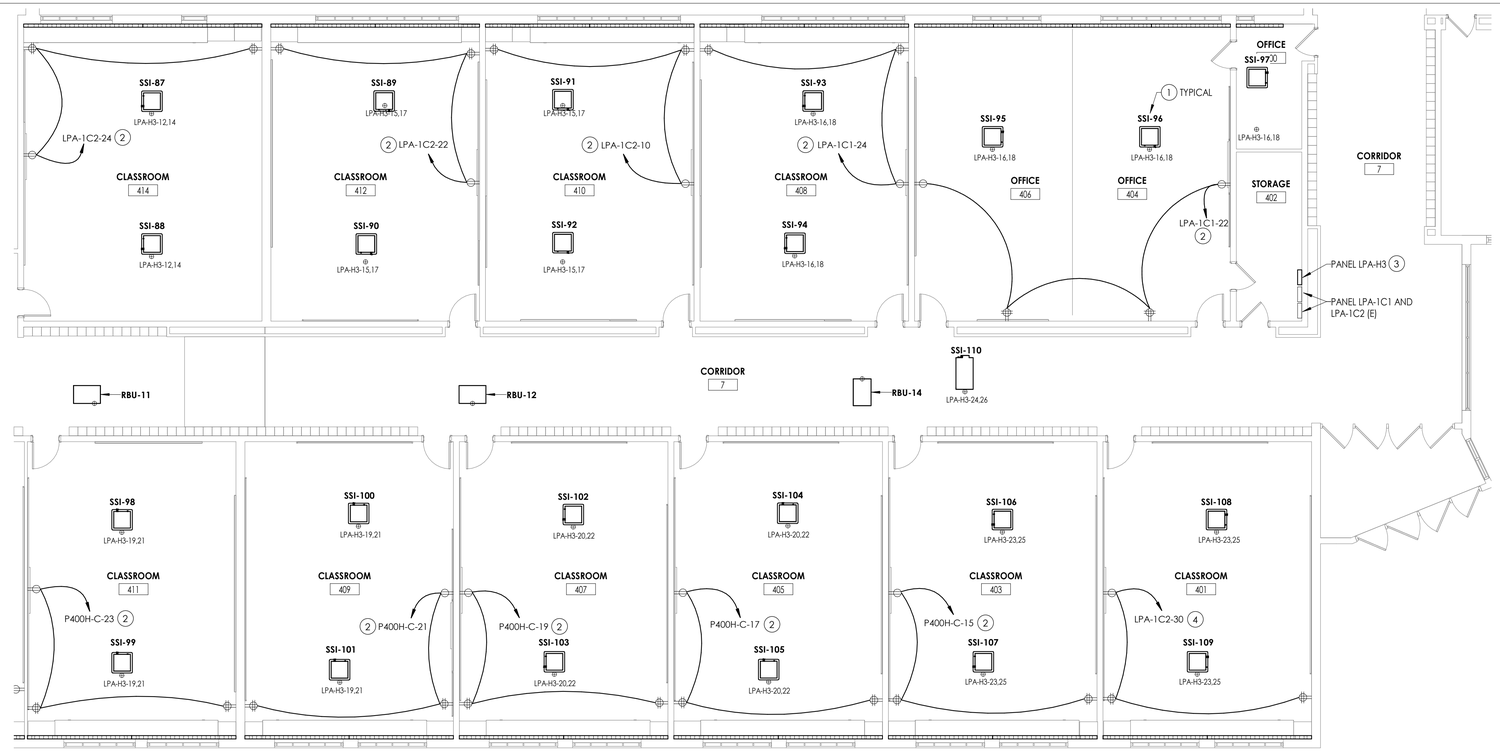
Project Status
BID DOCUMENTS

Drawn By	Checked By
MAY	JBT

Drawing Title
FIRST FLOOR ELECTRICAL NEW WORK PLAN - AREA C1 AND C2

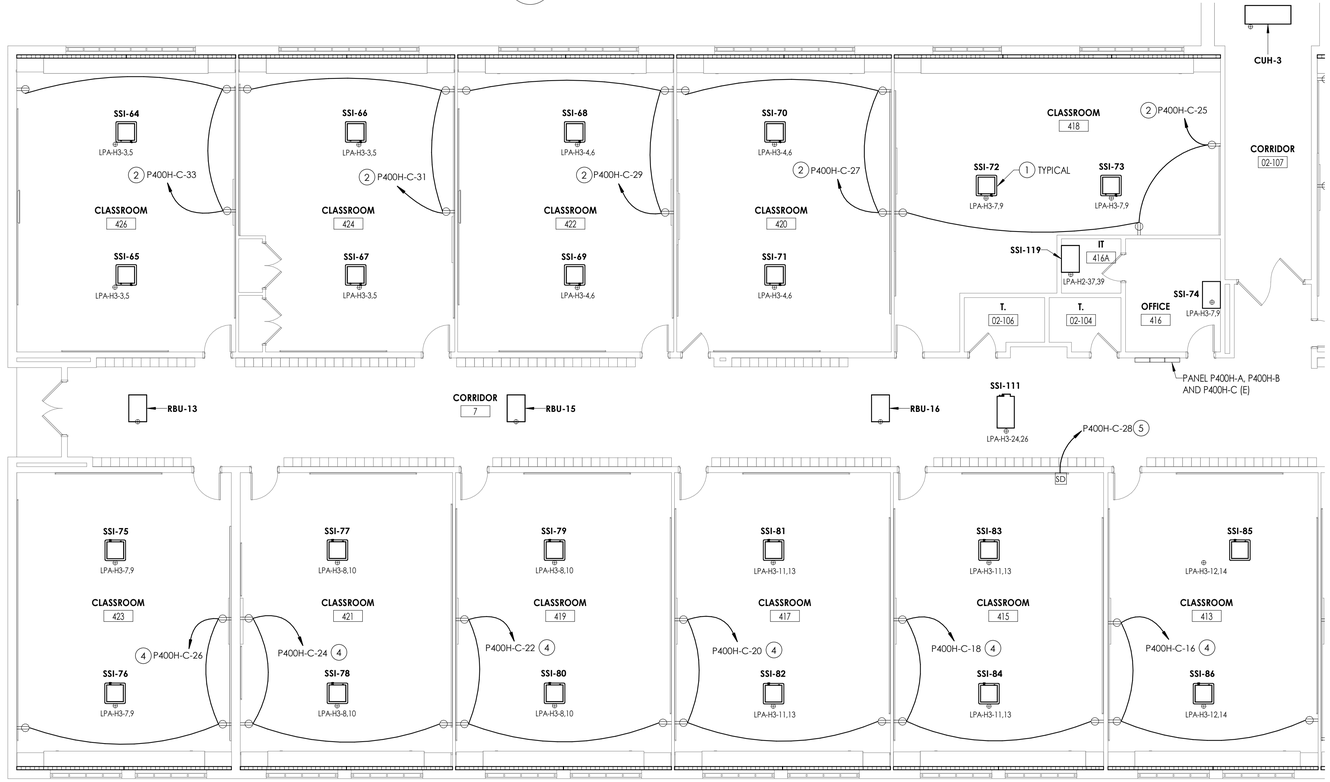
Drawing Number
TZHS
E202

10/24/2024 4:14:14 PM <project location>\REVIT PROJECT FILES ON BIM 360



1 E203 **FIRST FLOOR ELECTRICAL NEW WORK PLAN - AREA D1**

1/8" = 1'-0"



2 E203 **FIRST FLOOR ELECTRICAL NEW WORK PLAN - AREA D2**

1/8" = 1'-0"

GENERAL NOTES

A. UNLESS NOTED OTHERWISE, CONNECT NEW DEVICES SHOWN TO PANEL AND CIRCUIT BREAKER INDICATED ADJACENT TO DEVICE WITH (2) #12, (1) #12 GND IN 3/4" CONDUIT.

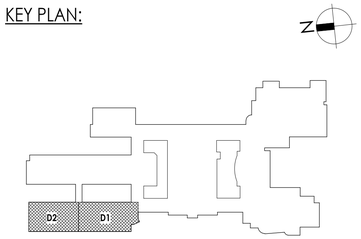
B. ALL CIRCUITS OVER 100 FEET TO BE WIRED WITH #10 THHN.

C. RECEPTACLES TO BE PLACED IN SURFACE RACEWAY. COORDINATE LOCATIONS WITH T-SERIES DRAWINGS.

KEY NOTES

1. ALL MECHANICAL EQUIPMENT POWER REQUIREMENTS ARE NOTED ON DRAWINGS E900, E901, E902. LABEL INDICATES EQUIPMENT TAG. REFER TO ELECTRICAL EQUIPMENT CONNECTION SCHEDULE ON SHEETS NOTED ABOVE.
2. CONNECT TO EXISTING 20A/1P CIRCUIT BREAKER AS NOTED. CIRCUITS ARE AVAILABLE FROM REMOVED UNIT VENTILATORS. CONFIRM AVAILABLE CIRCUITS IN FIELD ONCE UNIT VENTILATORS ARE REMOVED.
3. PROVIDE A 120/208V, 3-PHASE, 4-WIRE, 400-AMP, 54 CIRCUIT PANELBOARD AT LOCATION INDICATED. PROVIDE (4) #600 MCM, (1) #3 GND IN 4" CONDUIT FROM MDP IN BASEMENT TO NEW PANEL.
4. PROVIDE NEW 20-AMP, 1-POLE CIRCUIT BREAKER IN PANEL INDICATED FOR NEW RECEPTACLE CIRCUITS.
5. PROVIDE 120-VOLT POWER TO FIRE/SMOKE DAMPERS AT LOCATIONS INDICATED. PROVIDE (2) #12, (1) #12GND IN 3/4" CONDUIT FROM PANEL/CIRCUIT INDICATED TO FIRE/SMOKE DAMPERS. PROVIDE A 20-AMP, 1-POLE CIRCUIT BREAKER. PROVIDE A FIRE ALARM RELAY AT EACH FIRE/SMOKE DAMPER, AND WIRE TO FIRE ALARM CONTROL PANEL. COORDINATE ALL WORK WITH MECHANICAL CONTRACTOR.
6. CONNECT NEW EQUIPMENT TO TAGGED CIRCUITRY REWORK/EXTEND EXISTING CIRCUIT AS NECESSARY TO ACCOMMODATE NEW EQUIPMENT.

KEY PLAN:



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NY ENGINEERING FIRM CERTIFICATE #0021419

SOUTH ORANGETOWN Central School District
Capital Improvements Bond
Essential Infrastructure for Student Health, Safety and Success

PROJECT INFORMATION

Project Number
14457.20

Client Name
SOUTH ORANGETOWN CENTRAL SCHOOL DISTRICT

Project Name
PHASE 2: 2022 BOND

TAPPAN ZEE HIGH SCHOOL

Building Address
160 VAN WYCK RD., BLAUVELT, NY 10913

SED # 50-03-01-06-0-006-033

Registration Expiration Dates
Lauren Tonio 09/30/26
Anthony Marchetti 05/31/27
Dave Hart 02/28/25
Jennifer Wengender 06/30/27

PROJECT ISSUE & REVISION SCHEDULE

#	Date	Description

PROFESSIONAL STAMPS

NEW YORK STATE EDUCATION STATEMENT

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SHEET INFORMATION

Issued
10/25/2024

Scale
AS NOTED

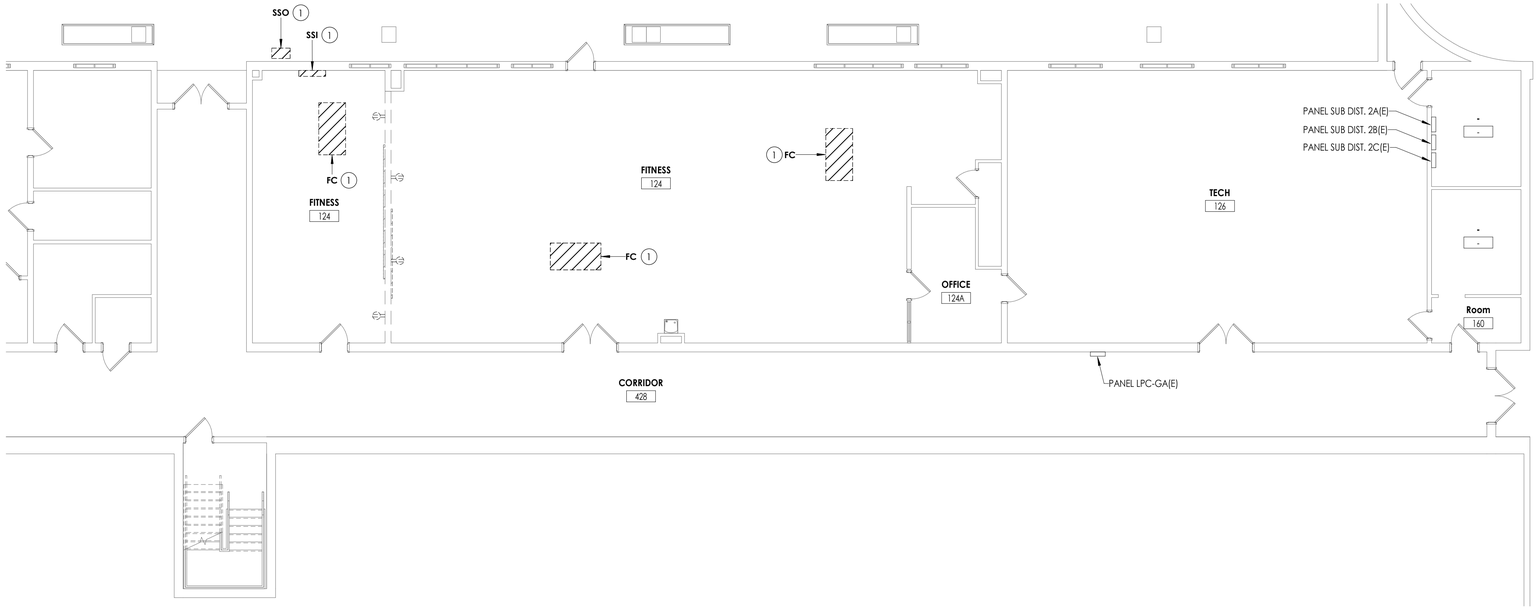
Project Status
BID DOCUMENTS

Drawn By
MAY

Checked By
JBT

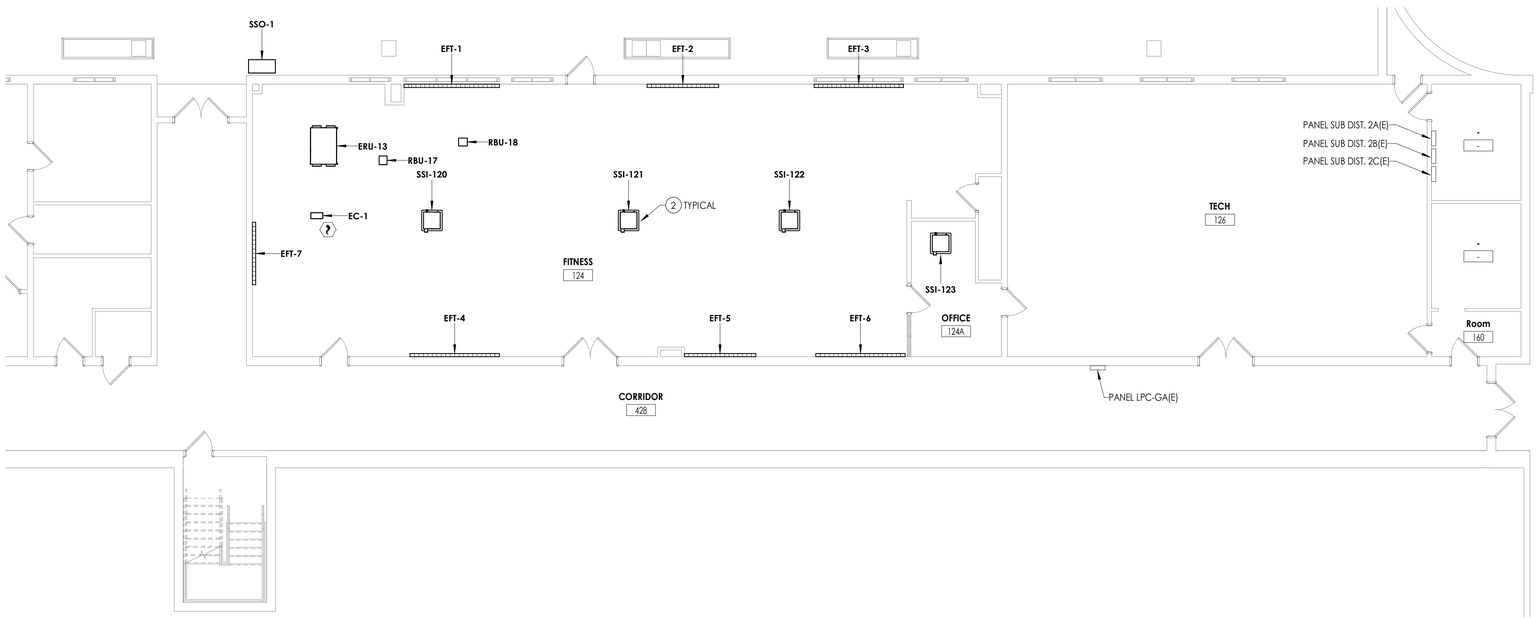
Drawing Title
FIRST FLOOR ELECTRICAL NEW WORK PLAN - AREA D1 AND D2

Drawing Number
TZHS
E203



1 E204 **GROUND FLOOR - ELECTRICAL DEMOLITION PLAN**

1/8" = 1'-0"



2 E204 **GROUND FLOOR - ELECTRICAL NEW WORK PLAN**

1/8" = 1'-0"

DEMOLITION GENERAL NOTES

A. ALL ITEMS SHOWN ARE TO BE REMOVED UNLESS LABELED AS (E) EXISTING. REMOVAL OF DEVICE INCLUDES ITS ASSOCIATED CABLING/BRANCH CIRCUIT WIRING, AND RACEWAY.

B. ANY EXISTING DEVICE TO REMAIN, LABELED AS (E) SHALL REMAIN IN PLACE AS WELL AS ITS' ASSOCIATED CIRCUITING AND CONDUIT, UNLESS OTHERWISE NOTED.

C. THE CONTRACTOR SHALL REMOVE THE EXISTING ELECTRIC IN AREAS OF NEW RENOVATIONS TO ACCOMMODATE NEW CONSTRUCTION. REROUTING OF EXISTING MAY BE REQUIRED AT NEW OPENINGS IN EXISTING CONSTRUCTION OR INTERFERENCE WITH OTHER NEW WORK AS NOTED IN THE FOLLOWING NOTES.

D. DRAWINGS INDICATE SPECIFIC ITEMS TO BE REMOVED AND/OR RELOCATED IN ORDER TO INDICATE GENERAL SCOPE. ADDITIONAL ITEMS NOT INDICATED, BUT NECESSARY FOR PROJECT RENOVATIONS, SHALL BE REMOVED, RELOCATED AND/OR REROUTED. THE CONTRACTOR SHALL ASSUME WITHIN THE BASE BID A NOMINAL AMOUNT OF BRANCH CIRCUITS, FIXTURES, DEVICES, AND SYSTEMS WIRING WITHIN WALLS OR OPENINGS BEING REMOVED OR RELOCATED AS REQUIRED TO ACCOMMODATE THE NEW CONSTRUCTION.

E. WHERE DEVICES, FIXTURES, ETC., ARE INDICATED TO BE REMOVED, THEY AND THEIR RELATED WIRING/CONDUIT SHALL BE REMOVED BACK TO THE SOURCE PANELBOARD UNLESS OTHERWISE NOTED. ON CIRCUITS WHERE OTHER DEVICES, FIXTURES, ETC. ARE FOUND THAT MUST REMAIN, MAINTAIN CIRCUIT CONTINUITY BY PROVIDING ADDITIONAL WIRING, TO FEED THROUGH TO THESE REMAINING ITEMS. RELOCATE ANY CIRCUITS THAT REMAIN, TO AVOID CONFLICT WITH NEW CONSTRUCTION AS REQUIRED. PROPERLY TERMINATE ALL WIRING.

F. COORDINATE DEMOLITION OF EQUIPMENT, DEVICES, ETC. WITH OTHER DISCIPLINES AS APPLICABLE. REFER TO ARCHITECTURAL DEMOLITION DRAWINGS AND NOTES FOR COORDINATION.

G. DRAWINGS ARE GRAPHICAL REPRESENTATIONS OF APPROXIMATE EQUIPMENT AND DEVICE LOCATIONS. CONTRACTOR SHALL VISIT THE SITE TO DETERMINE THE EXACT EXTENT OF ELECTRICAL WORK REQUIRED TO COMPLETE THE PROJECT. EXISTING CONDITIONS ARE TAKEN FROM FIELD OBSERVATION AND EXISTING BUILDING DOCUMENTS. OTHER ELECTRICAL ITEMS MAY EXIST FOR WHICH THE CONTRACTOR IS RESPONSIBLE.

H. CONTRACTOR SHALL PROPERLY DISPOSE OF ALL ITEMS, EQUIPMENT, PANELS, LIGHT FIXTURES, ETC. BEING REMOVED AS PART OF THIS PROJECT. THE OWNER SHALL HAVE THE RIGHT OF RETAINING ANY ITEMS BEING REMOVED.

I. CONTRACTOR SHALL PROVIDE NEW COVERPLATES ON ALL BOXES OF UNUSED AND/OR REMOVED FLUSH MOUNT DEVICES UPON COMPLETION OF PROJECT.

J. FIREPROOFING AND/OR FIRE STOP MATERIALS REMOVED FROM FIRE RATED WALLS AND CEILINGS AS A RESULT OF DEMOLITION SHALL BE RE-INSTALLED USING AN APPROVED METHOD AS DESCRIBED IN ASSOCIATED PROJECT SPECIFICATIONS.

NEW WORK GENERAL NOTES

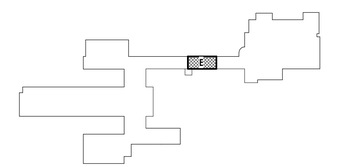
A. UNLESS NOTED OTHERWISE, CONNECT NEW DEVICES SHOWN TO PANEL AND CIRCUIT BREAKER INDICATED ADJACENT TO DEVICE WITH (2) #12, (1) #12 GND IN 3/4" CONDUIT.

B. ALL CIRCUITS OVER 100 FEET TO BE WIRED WITH #10 THHN.

KEY NOTES

1. DISCONNECT AND REMOVE ALL WIRING AND CONDUIT AND BRING BACK TO SOURCE.
2. ALL MECHANICAL EQUIPMENT POWER REQUIREMENTS ARE NOTED ON DRAWINGS E900, E901, E902. LABEL INDICATES EQUIPMENT TAG. REFER TO ELECTRICAL EQUIPMENT CONNECTION SCHEDULE ON SHEETS NOTED ABOVE.

KEY PLAN:



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SOUTH ORANGETOWN Central School District
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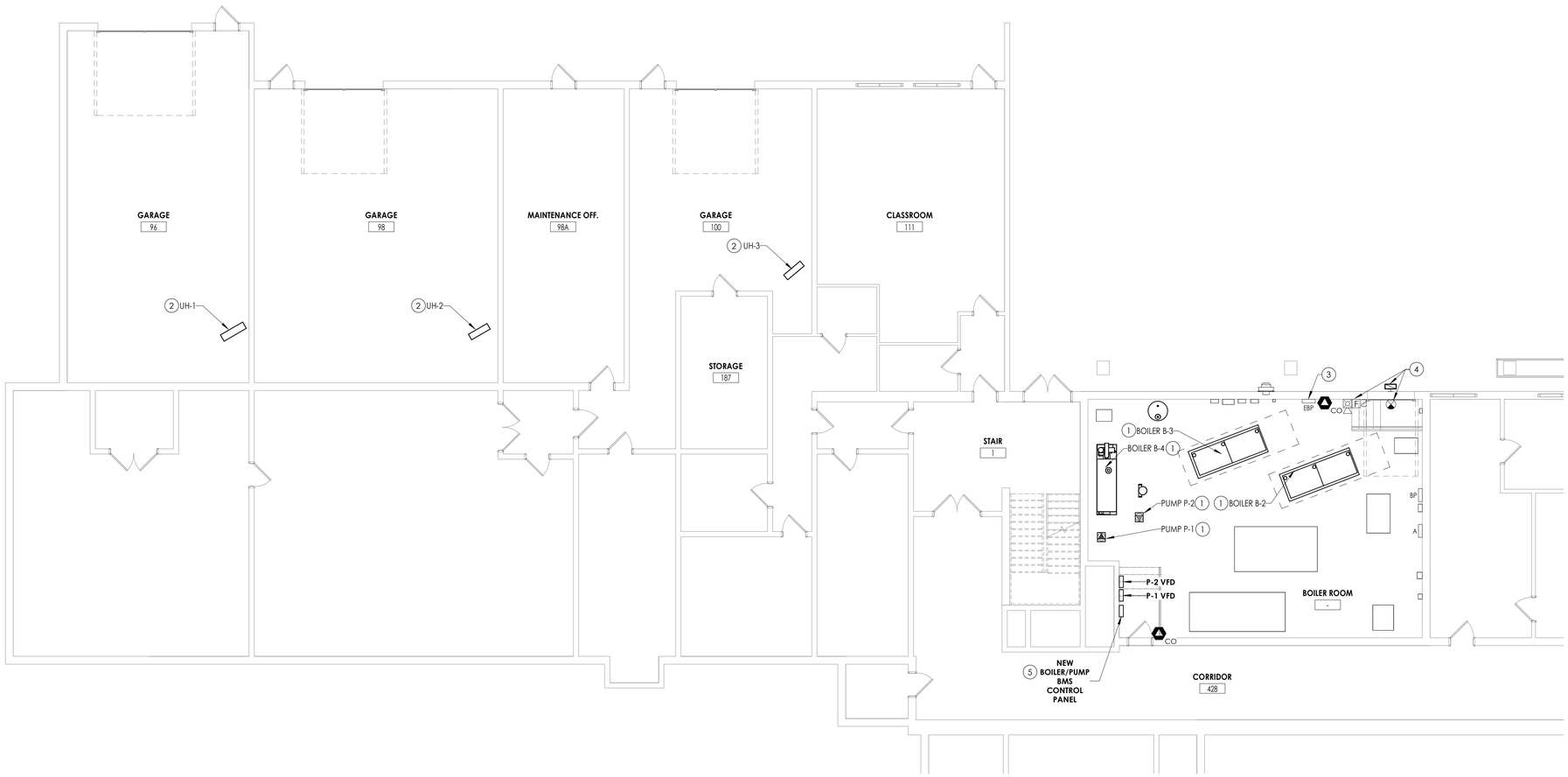
SHEET INFORMATION

Issued: 10/25/2024
Scale: AS NOTED
Project Status: BID DOCUMENTS
Drawn By: MAY
Checked By: JBT
Drawing Title: GROUND FLOOR DEMOLITION & NEW WORK PLAN - AREA E

Drawing Number
TZHS
E204

10/24/2024 4:14:16 PM <project location>\REVIT PROJECT FILES ON BIM 360



1 E205 **GROUND FLOOR ELECTRICAL NEW WORK PLAN - AREA F**

1/8" = 1'-0"

GENERAL NOTES

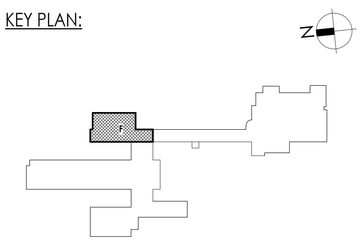
A. UNLESS NOTED OTHERWISE, CONNECT NEW DEVICES SHOWN TO PANEL AND CIRCUIT BREAKER INDICATED ADJACENT TO DEVICE WITH (2) #12, (1) #12 GND IN 3/4" CONDUIT.

B. ALL CIRCUITS OVER 100 FEET TO BE WIRED WITH #10 THHN.

KEY NOTES

1. ALL MECHANICAL EQUIPMENT POWER REQUIREMENTS ARE NOTED ON DRAWINGS E900, E901, E902. LABEL INDICATES EQUIPMENT TAG, REFER TO ELECTRICAL EQUIPMENT CONNECTION SCHEDULE ON SHEETS NOTED ABOVE.
2. CONNECT NEW UNIT HEATERS TO EXISTING TAGGED CIRCUITY WITHIN SPACE, THAT WAS FEEDING REMOVED UNIT VENTILATORS. REWORK/EXTEND EXISTING CIRCUITRY AS NECESSARY TO ACCOMMODATE NEW EQUIPMENT.
3. PROVIDE (1) 40A/3P, (3) 20A/3P, AND (1) 20A/2P CIRCUIT BREAKER IN PANEL INDICATED. REFER TO EQUIPMENT CONNECTION SCHEDULE ON DRAWING E901 FOR SPACES IN PANEL FOR NOTED BREAKERS.
4. REINSTALL EXISTING EXTERIOR LIGHT, EXIT/EM FIXTURE. FIRE ALARM PULL STATION, FIRE ALARM HORN/STROBE, AND ALL ASSOCIATED CONDUIT AND WIRING BACK TO SIMILAR LOCATIONS TO ACCOMMODATE A NEW OVERHEAD DOOR. CONNECT ALL DEVICES TO EXISTING TAGGED WIRING. REWORK/EXTEND CONDUIT/WIRING AS NECESSARY TO ACCOMMODATE NEW LOCATIONS.
5. PROVIDE (2) #12, (1) #12 GND IN 3/4" CONDUIT FROM PANEL EBP, CIRCUIT 13. PROVIDE A 20-AMP, 1-POLE CIRCUIT BREAKER IN SPACE TO ACCOMMODATE CONTROL PANEL.

KEY PLAN:



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SOUTH ORANGETOWN Central School District
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Essential Infrastructure for Student Health, Safety and Success

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14457.20

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Project Name
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SHEET INFORMATION

Issued	Scale
10/25/2024	AS NOTED

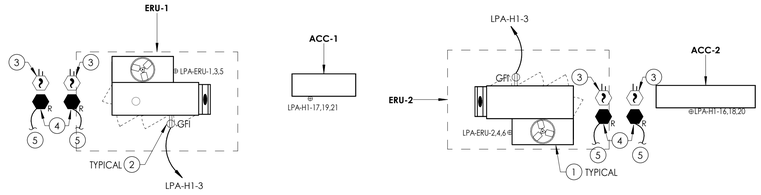
Project Status
BID DOCUMENTS

Drawn By	Checked By
MAY	JBT

Drawing Title
GROUND FLOOR ELECTRICAL NEW WORK PLAN - AREA F

Drawing Number
TZHS E205

10/24/2024 4:14:17 PM <project location>\REVIT PROJECT FILES ON BIM 360



1 E211 **ROOF - ELECTRICAL NEW WORK PLAN - AREA B**

1/8" = 1'-0"

GENERAL NOTES

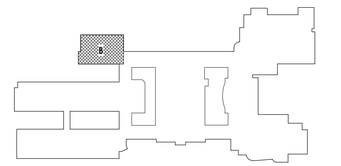
A. UNLESS NOTED OTHERWISE, CONNECT NEW DEVICES SHOWN TO PANEL AND CIRCUIT BREAKER INDICATED ADJACENT TO DEVICE WITH (2) #12, (1) #12 GND IN 3/4" CONDUIT.

B. ALL CIRCUITS OVER 100 FEET TO BE WIRED WITH #10 THHN.

KEY NOTES

1. ALL MECHANICAL EQUIPMENT POWER REQUIREMENTS ARE NOTED ON DRAWINGS E900, E901, E902. LABEL INDICATES EQUIPMENT TAG, REFER TO ELECTRICAL EQUIPMENT CONNECTION SCHEDULE ON SHEETS NOTED ABOVE.
2. PROVIDE A WEATHERPROOF GFCI RECEPTACLE MOUNTED ON SIDE OF ERU. PROVIDE WITH WEATHERPROOF IN-USE COVER. COORDINATE LOCATION WITH ERU INSTALLER.
3. PROVIDE DUCT SMOKE DETECTOR FOR RETURN AND SUPPLY LINES OF RTU'S SHOWN HERE FOR CLARITY BUT ARE IN FIRST FLOOR CEILING PLAN. PROVIDE FAN SHUT DOWN RELAYS SO THAT UNIT WILL SHUT DOWN ALL FANS ASSOCIATED WITH UNIT ON ACTIVATION OF THE BUILDING FIRE ALARM PANEL.
4. PROVIDE FAN SHUT DOWN RELAYS AT HVAC EQUIPMENT CONTROLS. INTERCONNECT RELAYS TO BUILDING FIRE ALARM SYSTEM TO SHUT DOWN FAN MOTORS WHEN THE FIRE ALARM IS ACTIVATED.
5. PROVIDE ASSOCIATED REMOTE TEST SWITCHES IN CEILING SPACE BELOW.

KEY PLAN:



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SOUTH ORANGETOWN Central School District
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Scale
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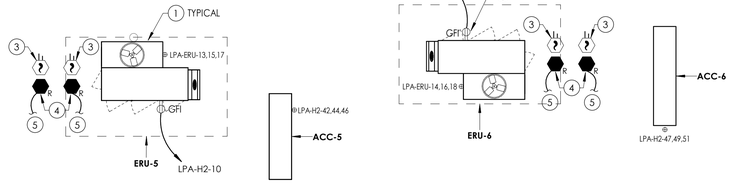
Project Status
BID DOCUMENTS

Drawn By
MAY

Checked By
JBT

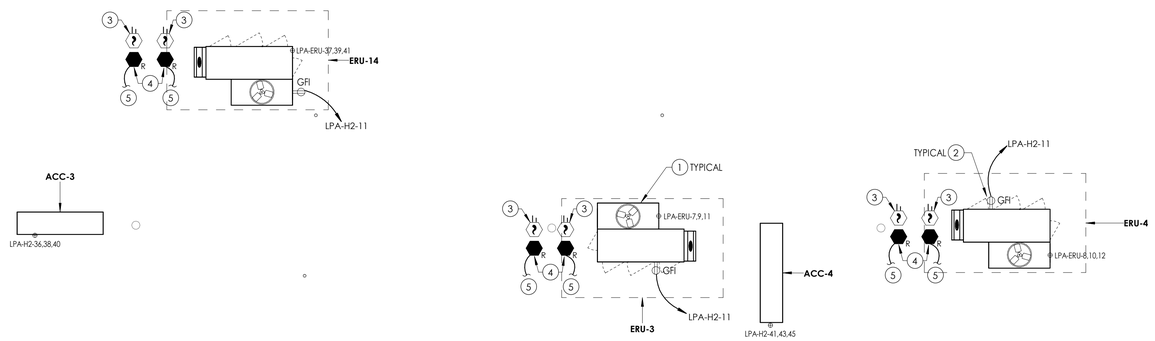
Drawing Title
ROOF ELECTRICAL NEW WORK PLAN - AREA B

Drawing Number
TZHS
E211



1 E212 ROOF - ELECTRICAL NEW WORK PLAN - AREA C1

1/8" = 1'-0"



2 E212 ROOF - ELECTRICAL NEW WORK PLAN - AREA C2

1/8" = 1'-0"

GENERAL NOTES

A. UNLESS NOTED OTHERWISE, CONNECT NEW DEVICES SHOWN TO PANEL AND CIRCUIT BREAKER INDICATED ADJACENT TO DEVICE WITH (2) #12, (1) #12 GND IN 3/4" CONDUIT.

B. ALL CIRCUITS OVER 100 FEET TO BE WIRED WITH #10 THHN.

KEY NOTES

1. ALL MECHANICAL EQUIPMENT POWER REQUIREMENTS ARE NOTED ON DRAWINGS E900, E901, E902. LABEL INDICATES EQUIPMENT TAG, REFER TO ELECTRICAL EQUIPMENT CONNECTION SCHEDULE ON SHEETS NOTED ABOVE.
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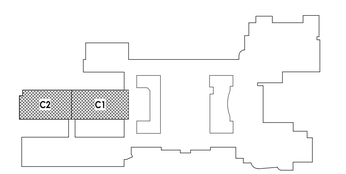
3. PROVIDE DUCT SMOKE DETECTOR FOR RETURN AND SUPPLY LINES OF RTU'S SHOWN HERE FOR CLARITY BUT ARE IN FIRST FLOOR CEILING PLAN. PROVIDE FAN SHUT DOWN RELAYS SO THAT UNIT WILL SHUT DOWN ALL FANS ASSOCIATED WITH UNIT ON ACTIVATION OF THE BUILDING FIRE ALARM PANEL.
4. PROVIDE FAN SHUT DOWN RELAYS AT HVAC EQUIPMENT CONTROLS. INTERCONNECT RELAYS TO BUILDING FIRE ALARM SYSTEM TO SHUT DOWN FAN MOTORS WHEN THE FIRE ALARM IS ACTIVATED.
5. PROVIDE ASSOCIATED REMOTE TEST SWITCHES IN CEILING SPACE BELOW.

KEY PLAN:



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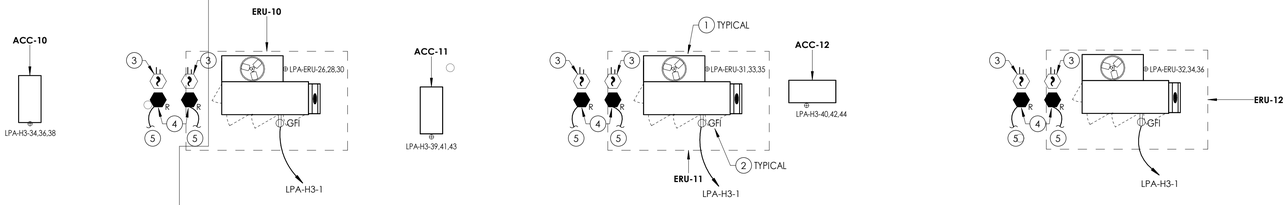
SHEET INFORMATION

Issued: 10/25/2024
Scale: AS NOTED
Project Status: BID DOCUMENTS
Drawn By: MAY
Checked By: JBT
Drawing Title: ROOF ELECTRICAL NEW WORK PLAN - AREA C1 AND C2

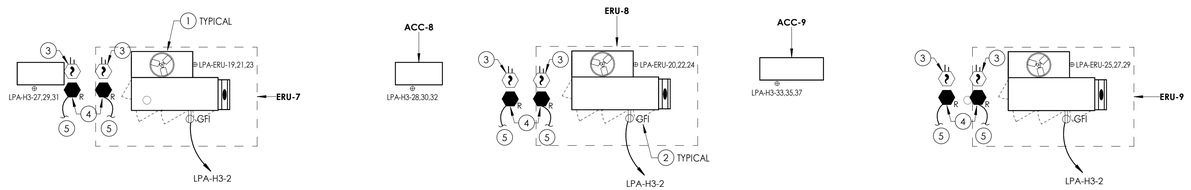
Drawing Number
TZHS
E212

10/24/2024 4:14:18 PM <project location>\REVIT PROJECT FILES ON BIM 360



1 E213 ROOF - ELECTRICAL NEW WORK PLAN - AREA D1

1/8" = 1'-0"



2 E213 ROOF - ELECTRICAL NEW WORK PLAN - AREA D2

1/8" = 1'-0"

GENERAL NOTES

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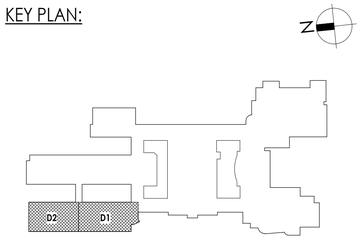

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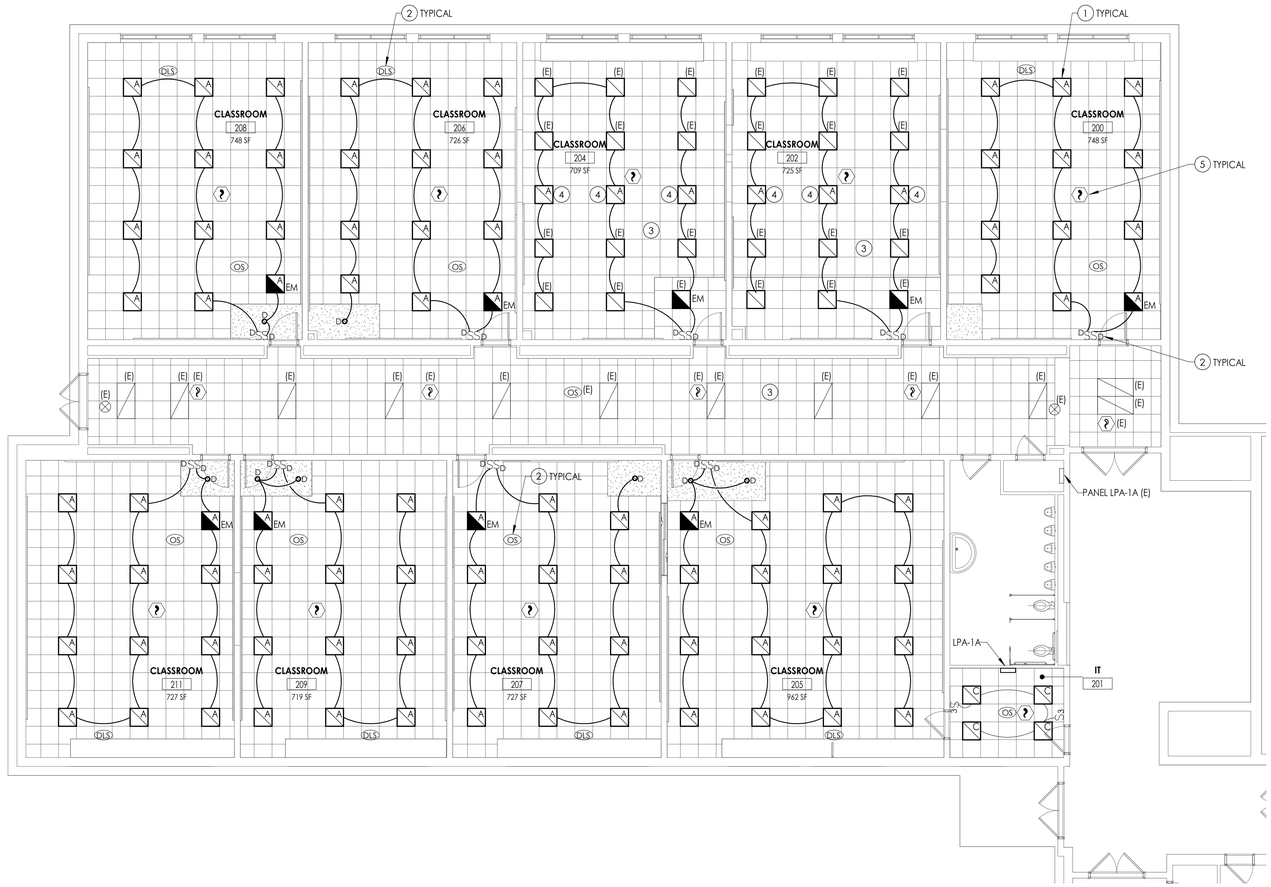
BID DOCUMENTS

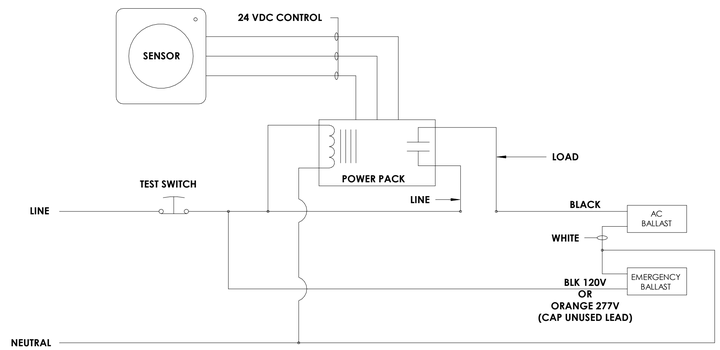
Drawn By	Checked By
MAY	JBT

Drawing Title
ROOF ELECTRICAL NEW WORK PLAN - AREA D1 AND D2

Drawing Number
TZHS
E213



1 FIRST FLOOR LIGHTING PLAN - AREA B
E301 — 1/8" = 1'-0"



2 SINGLE LEVEL OCCUPANCY SWITCHED EMERGENCY FIXTURE WIRING DIAGRAM
E301 — 12" = 1'-0"

GENERAL NOTES

A. FIXTURE TYPE MARK IS INDICATED ADJACENT TO ALL LIGHT FIXTURES. REFER TO LUMINAIRE SCHEDULE ON DRAWING E903 FOR FIXTURE DESCRIPTIONS, TYPES, NOTES, AND SPECIFICATIONS.

B. ALL LIGHT FIXTURES SHOWN SHALL BE WIRED WITH (2) #12, (1) #12 GND IN 3/4" CONDUIT, WIRED TO PANEL AND CIRCUIT INDICATED. CIRCUITS EXCEEDING 100' SHALL BE WIRED WITH #10 CONDUCTORS.

C. INSTALL SWITCHING AND LOW-VOLTAGE SENSORS AS SHOWN. PROVIDE ALL LOW-VOLTAGE WIRING BETWEEN SENSORS, CONTROLLERS, POWER PACKS, AND LUMINAIRES.

D. ALL LOW VOLTAGE WIRING BETWEEN SENSORS, CONTROLLERS, POWER PACKS, AND LUMINAIRES SHALL BE IN 3/4" MC.

E. PROVIDE ANY ADDITIONAL POWER SUPPLIES OR OTHER MISCELLANEOUS COMPONENTS REQUIRED FOR A COMPLETE, OPERATIONAL LIGHTING SYSTEM TO MEET THE DESIGN INTENT OF THE LIGHTING SEQUENCE OF OPERATIONS AS SHOWN.

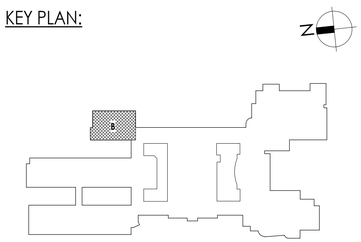
F. ALL FIXTURES INDICATED WITH "EM" DESIGNATION SHALL HAVE EMERGENCY BATTERY BACKUP AT EACH FIXTURE. BATTERY BACKUP PACK TO BE WIRED TO THE UNSWITCHED "HOT LEG" OF THE CIRCUITRY FEEDING THE SPACE.

G. ALL FIXTURES INDICATED WITH "NL" DESIGNATION INDICATED A "CONSTANT ON" NIGHT LIGHT. FIXTURE TO BE WIRED TO THE UNSWITCHED " HOT LEG" OF THE CIRCUITRY FEEDING THE SPACE.

KEY NOTES

1. CONNECT NEW FIXTURES TO EXISTING TAGGED CIRCUITRY. REWORK/EXTEND CIRCUITRY AS NECESSARY TO ACCOMMODATE NEW FIXTURE.
2. PROVIDE NEW SWITCHING, OCCUPANCY, AND DAYLIGHT SENSORS AS INDICATED. PROVIDE ALL NEW LOW-VOLTAGE WIRING TO FIXTURES AND DEVICES INDICATED. CONNECT NEW SWITCHES TO EXISTING TAGGED CIRCUITRY.
3. ALL EXISTING LIGHTING AND CEILING MOUNTED DEVICES TO BE REINSTALLED BACK IN PLACE IN NEW CEILING GRID. CONNECT TO EXISTING TAGGED CIRCUITRY.
4. CONNECT NEW LIGHT FIXTURES TO EXISTING CIRCUITRY WITH (2) #12, (1) #12 GND IN MC.
5. PROVIDE NEW SMOKE DETECTORS AS SHOWN. PROVIDE NEW WIRING FROM SMOKE DETECTOR TO LOCAL SLC CIRCUIT WITHIN AREA.

KEY PLAN:



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NY ENGINEERING FIRM CERTIFICATE #0021419

SOUTH ORANGETOWN Central School District
Capital Improvements Bond
Essential Infrastructure for Student Health, Safety and Success

PROJECT INFORMATION

Project Number
14457.20

Client Name
SOUTH ORANGETOWN CENTRAL SCHOOL DISTRICT

Project Name
PHASE 2: 2022 BOND

TAPPAN ZEE HIGH SCHOOL

Building Address
160 VAN WYCK RD., BLAUVELT, NY 10913

SED # 50-03-01-06-0-006-033

Registration Expiration Dates
Lauren Tonio 09/30/26
Anthony Marchetti 05/31/27
Dave Hart 02/28/25
Jennifer Wengender 06/30/27

PROJECT ISSUE & REVISION SCHEDULE

#	Date	Description

PROFESSIONAL STAMPS

SHEET INFORMATION

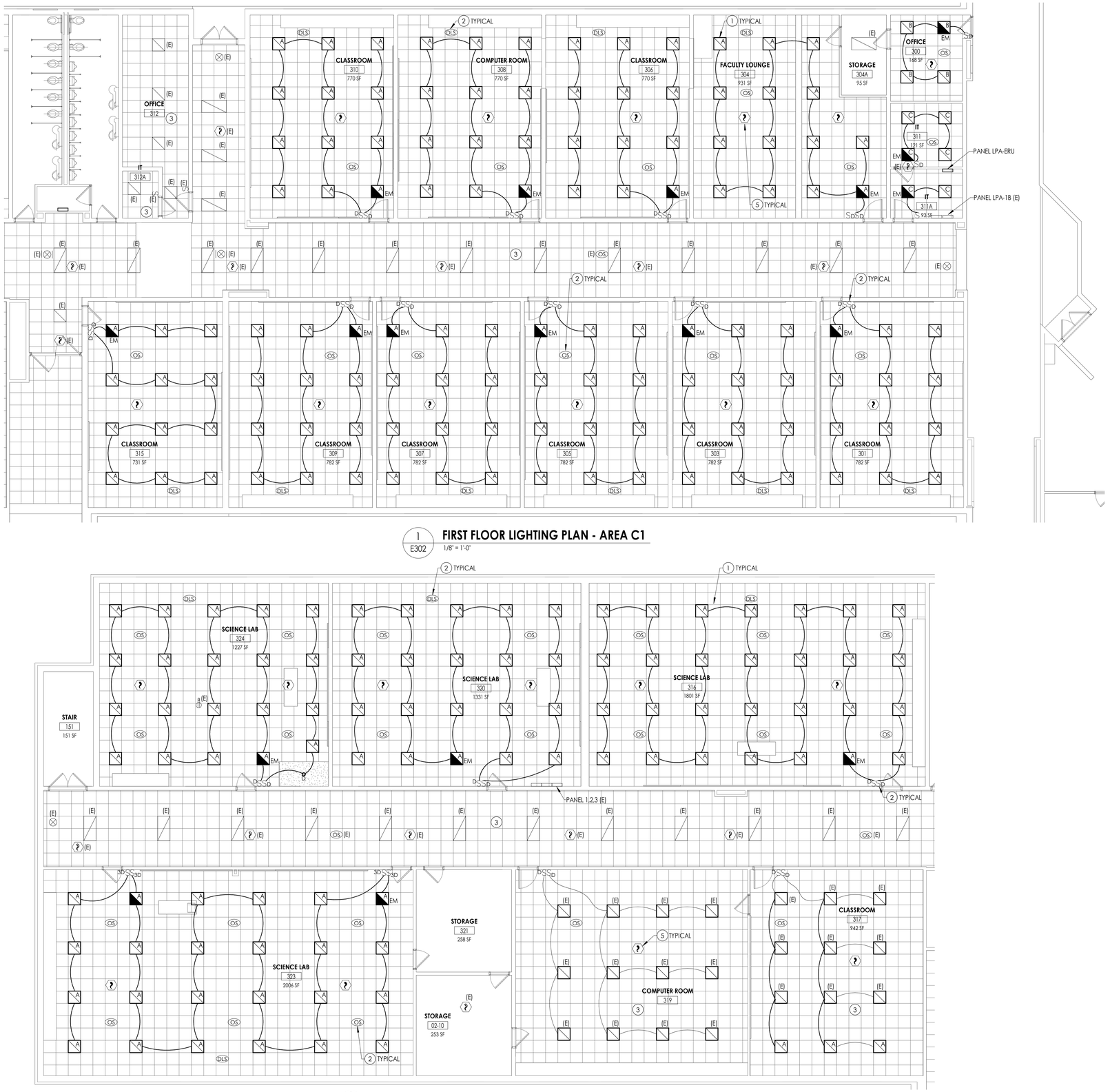
Issued	Scale
10/25/2024	As indicated

Project Status
BID DOCUMENTS

Drawn By	Checked By
MAY	JBT

Drawing Title
FIRST FLOOR LIGHTING PLAN - AREA B

Drawing Number
TZHS
E301



1 / E302 FIRST FLOOR LIGHTING PLAN - AREA C1

1/8" = 1'-0"

2 / E302 FIRST FLOOR LIGHTING PLAN - AREA C2

1/8" = 1'-0"

GENERAL NOTES

A. FIXTURE TYPE MARK IS INDICATED ADJACENT TO ALL LIGHT FIXTURES. REFER TO LUMINAIRE SCHEDULE ON DRAWING E903 FOR FIXTURE DESCRIPTIONS, TYPES, NOTES, AND SPECIFICATIONS.

B. ALL LIGHT FIXTURES SHOWN SHALL BE WIRED WITH (2) #12, (1) #12 GND IN 3/4" CONDUIT, WIRED TO PANEL AND CIRCUIT INDICATED. CIRCUITS EXCEEDING 100' SHALL BE WIRED WITH #10 CONDUCTORS.

C. INSTALL SWITCHING AND LOW-VOLTAGE SENSORS AS SHOWN. PROVIDE ALL LOW-VOLTAGE WIRING BETWEEN SENSORS, CONTROLLERS, POWER PACKS, AND LUMINAIRES.

D. ALL LOW VOLTAGE WIRING BETWEEN SENSORS, CONTROLLERS, POWER PACKS, AND LUMINAIRES SHALL BE IN 3/4" MC.

E. PROVIDE ANY ADDITIONAL POWER SUPPLIES OR OTHER MISCELLANEOUS COMPONENTS REQUIRED FOR A COMPLETE, OPERATIONAL LIGHTING SYSTEM TO MEET THE DESIGN INTENT OF THE LIGHTING SEQUENCE OF OPERATIONS AS SHOWN.

F. ALL FIXTURES INDICATED WITH "EM" DESIGNATION SHALL HAVE EMERGENCY BATTERY BACKUP AT EACH FIXTURE. BATTERY BACKUP PACK TO BE WIRED TO THE UNSWITCHED "HOT LEG" OF THE CIRCUITRY FEEDING THE SPACE.

G. ALL FIXTURES INDICATED WITH "NL" DESIGNATION INDICATED A "CONSTANT ON" NIGHT LIGHT. FIXTURE TO BE WIRED TO THE UNSWITCHED " HOT LEG" OF THE CIRCUITRY FEEDING THE SPACE.

KEY NOTES

1. CONNECT NEW FIXTURES TO EXISTING TAGGED CIRCUITRY. REWORK/EXTEND CIRCUITRY AS NECESSARY TO ACCOMMODATE NEW FIXTURE.
2. PROVIDE NEW SWITCHING, OCCUPANCY, AND DAYLIGHT SENSORS AS INDICATED. PROVIDE ALL NEW LOW-VOLTAGE WIRING TO FIXTURES AND DEVICES INDICATED. CONNECT NEW SWITCHES TO EXISTING TAGGED CIRCUITRY.
3. ALL EXISTING LIGHTING AND CEILING MOUNTED DEVICES TO BE REINSTALLED BACK IN PLACE IN NEW CEILING GRID. CONNECT TO EXISTING TAGGED CIRCUITRY.
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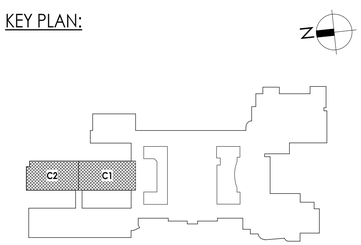
5. PROVIDE NEW SMOKE DETECTORS AS SHOWN. PROVIDE NEW WIRING FROM SMOKE DETECTOR TO LOCAL SLC CIRCUIT WITHIN AREA.

KEY PLAN:



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SOUTH ORANGETOWN Central School District
Capital Improvements Bond
Essential Infrastructure for Student Health, Safety and Success

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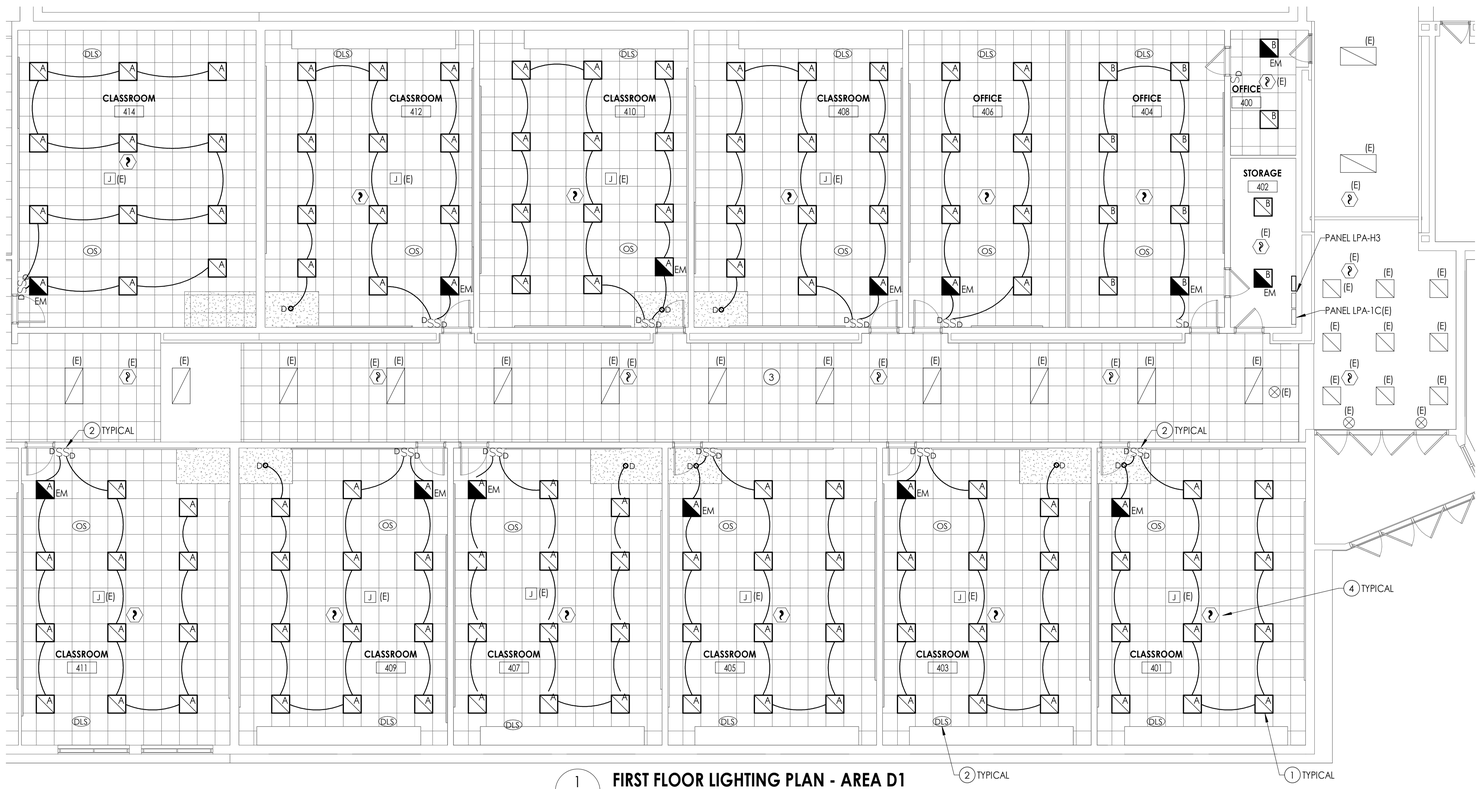
SHEET INFORMATION

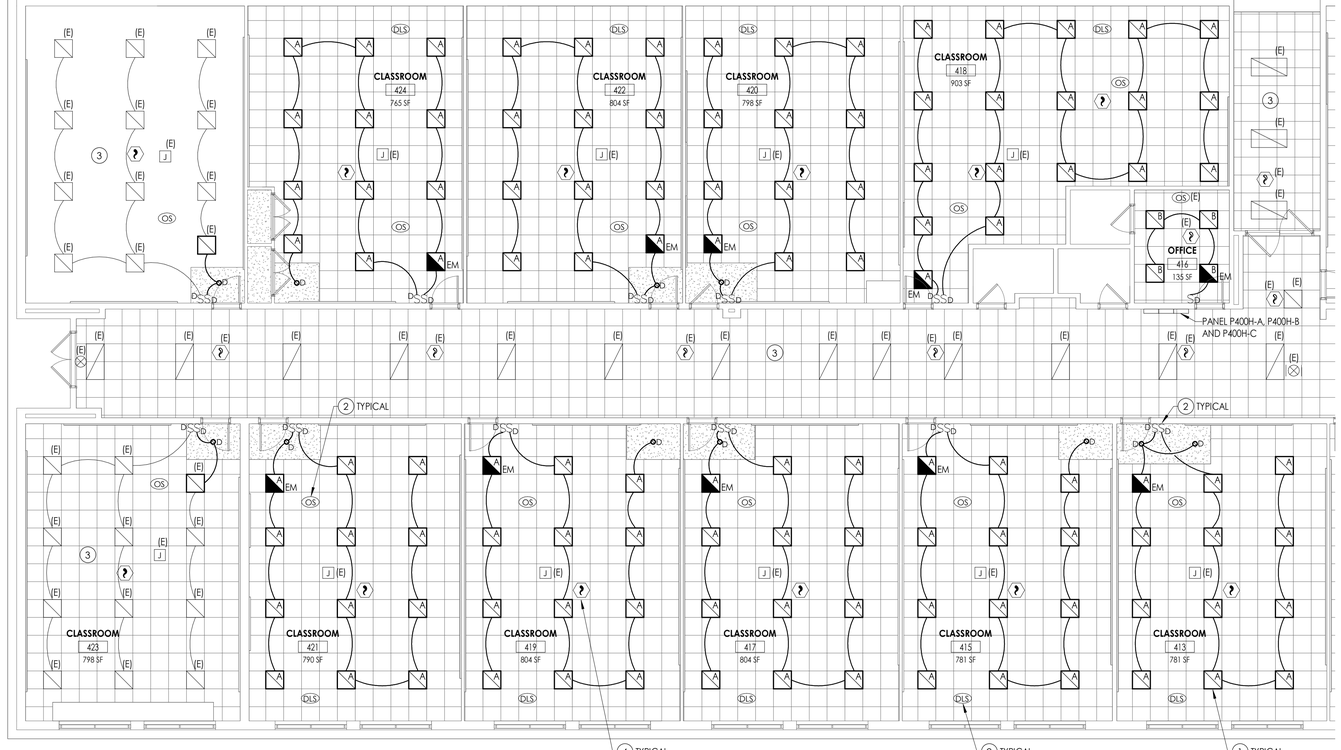
Issued: 10/25/2024
Scale: AS NOTED
Project Status: BID DOCUMENTS
Drawn By: MAY
Checked By: JBT
Drawing Title: FIRST FLOOR LIGHTING PLAN - AREA C1 AND C2

Drawing Number
TZHS
E302



1 E303 **FIRST FLOOR LIGHTING PLAN - AREA D1**

1/8" = 1'-0"



2 E303 **FIRST FLOOR LIGHTING PLAN - AREA D2**

1/8" = 1'-0"

GENERAL NOTES

A. FIXTURE TYPE MARK IS INDICATED ADJACENT TO ALL LIGHT FIXTURES. REFER TO LUMINAIRE SCHEDULE ON DRAWING E903 FOR FIXTURE DESCRIPTIONS, TYPES, NOTES, AND SPECIFICATIONS.

B. ALL LIGHT FIXTURES SHOWN SHALL BE WIRED WITH (2) #12, (1) #12 GND IN 3/4" CONDUIT, WIRED TO PANEL AND CIRCUIT INDICATED. CIRCUITS EXCEEDING 100' SHALL BE WIRED WITH #10 CONDUCTORS.

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D. ALL LOW VOLTAGE WIRING BETWEEN SENSORS, CONTROLLERS, POWER PACKS, AND LUMINAIRES SHALL BE IN 3/4" MC.

E. PROVIDE ANY ADDITIONAL POWER SUPPLIES OR OTHER MISCELLANEOUS COMPONENTS REQUIRED FOR A COMPLETE, OPERATIONAL LIGHTING SYSTEM TO MEET THE DESIGN INTENT OF THE LIGHTING SEQUENCE OF OPERATIONS AS SHOWN.

F. ALL FIXTURES INDICATED WITH "EM" DESIGNATION SHALL HAVE EMERGENCY BATTERY BACKUP AT EACH FIXTURE. BATTERY BACKUP PACK TO BE WIRED TO THE UNSWITCHED "HOT LEG" OF THE CIRCUITRY FEEDING THE SPACE.

G. ALL FIXTURES INDICATED WITH "NL" DESIGNATION INDICATED A "CONSTANT ON" NIGHT LIGHT. FIXTURE TO BE WIRED TO THE UNSWITCHED " HOT LEG" OF THE CIRCUITRY FEEDING THE SPACE.

KEY NOTES

1. CONNECT NEW FIXTURES TO EXISTING TAGGED CIRCUITRY. REWORK/EXTEND CIRCUITRY AS NECESSARY TO ACCOMMODATE NEW FIXTURE.
2. PROVIDE NEW SWITCHING, OCCUPANCY, AND DAYLIGHT SENSORS AS INDICATED. PROVIDE ALL NEW LOW-VOLTAGE WIRING TO FIXTURES AND DEVICES INDICATED. CONNECT NEW SWITCHES TO EXISTING TAGGED CIRCUITRY.
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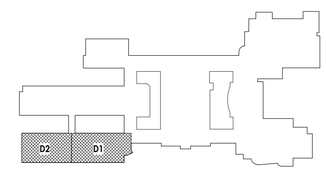
KEY PLAN:



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Essential Infrastructure for Student Health, Safety and Success

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SHEET INFORMATION

Issued: 10/25/2024
Scale: AS NOTED
Project Status: BID DOCUMENTS
Drawn By: MAY
Checked By: JBT
Drawing Title: FIRST FLOOR LIGHTING PLAN - AREA D1 AND D2

Drawing Number
TZHS E303

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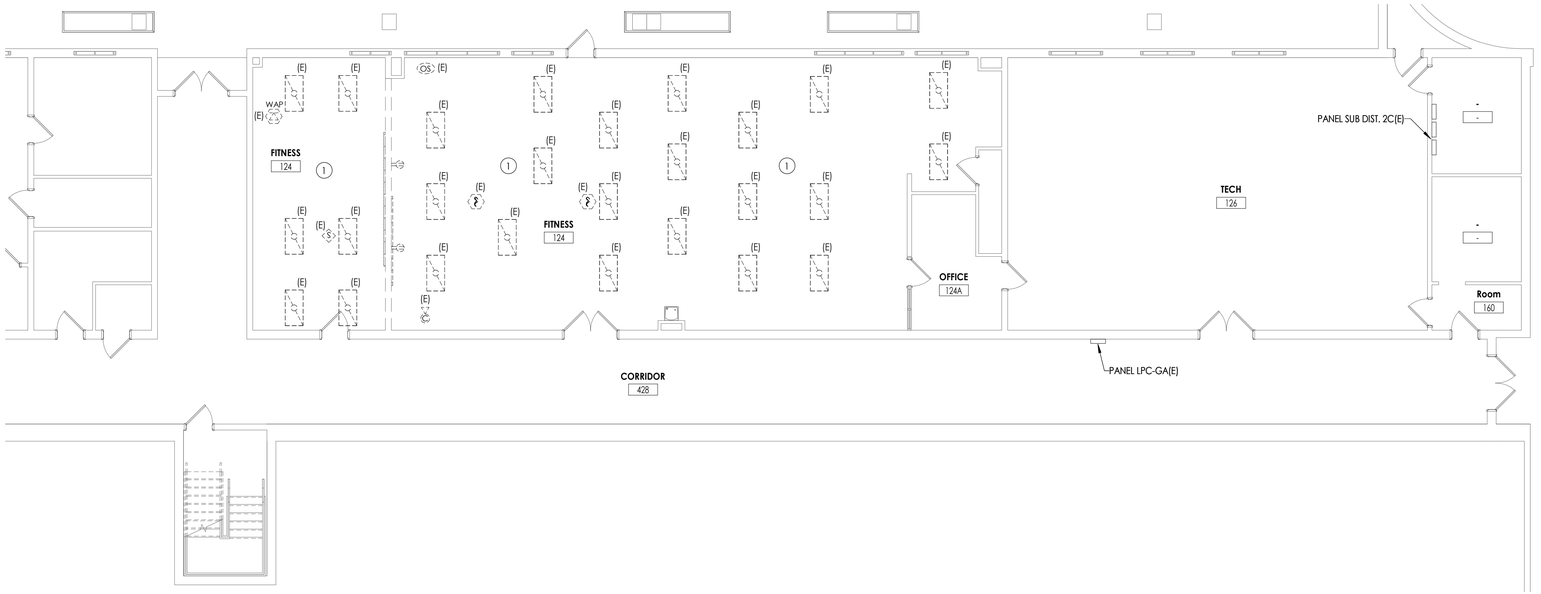
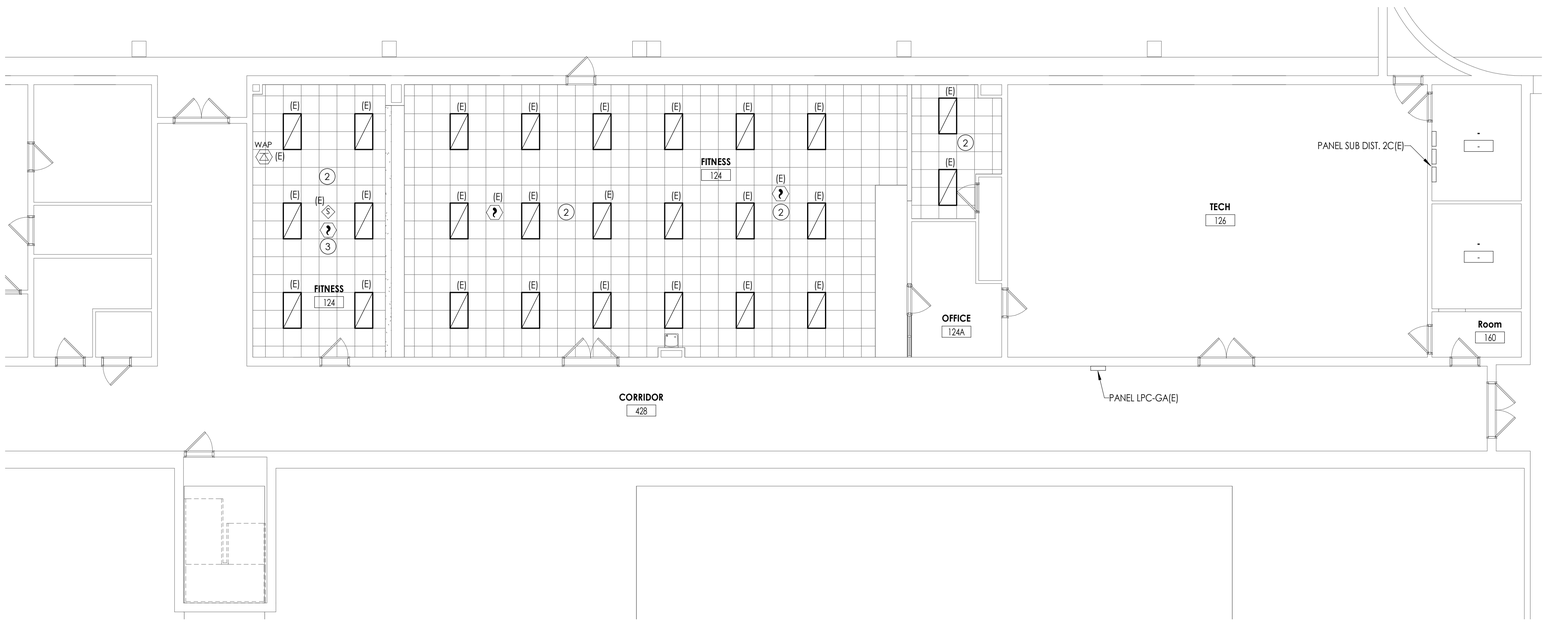


1 / E304 **GROUND FLOOR ELECTRICAL DEMOLITION LIGHTING PLAN - AREA E**

1/8" = 1'-0"



2 / E304 **GROUND FLOOR ELECTRICAL LIGHTING PLAN - AREA E**

1/8" = 1'-0"

DEMOLITION GENERAL NOTES

A. ALL ITEMS SHOWN ARE TO BE REMOVED UNLESS LABELED AS (E) EXISTING. REMOVAL OF DEVICE INCLUDES ITS ASSOCIATED CABLING/BRANCH CIRCUIT WIRING, AND RACEWAY.

B. ANY EXISTING DEVICE TO REMAIN, LABELED AS (E) SHALL REMAIN IN PLACE AS WELL AS ITS' ASSOCIATED CIRCUITING AND CONDUIT, UNLESS OTHERWISE NOTED.

C. THE CONTRACTOR SHALL REMOVE THE EXISTING ELECTRIC IN AREAS OF NEW RENOVATIONS TO ACCOMMODATE NEW CONSTRUCTION. REROUTING OF EXISTING MAY BE REQUIRED AT NEW OPENINGS IN EXISTING CONSTRUCTION OR INTERFERENCE WITH OTHER NEW WORK AS NOTED IN THE FOLLOWING NOTES.

D. DRAWINGS INDICATE SPECIFIC ITEMS TO BE REMOVED AND/OR RELOCATED IN ORDER TO INDICATE GENERAL SCOPE. ADDITIONAL ITEMS NOT INDICATED, BUT NECESSARY FOR PROJECT RENOVATIONS, SHALL BE REMOVED, RELOCATED AND/OR REROUTED. THE CONTRACTOR SHALL ASSUME WITHIN THE BASE BID A NOMINAL AMOUNT OF BRANCH CIRCUITS, FIXTURES, DEVICES, AND SYSTEMS WIRING WITHIN WALLS OR OPENINGS BEING REMOVED OR RELOCATED AS REQUIRED TO ACCOMMODATE THE NEW CONSTRUCTION.

E. WHERE DEVICES, FIXTURES, ETC. ARE INDICATED TO BE REMOVED, THEY AND THEIR RELATED WIRING/CONDUIT SHALL BE REMOVED BACK TO THE SOURCE PANELBOARD UNLESS OTHERWISE NOTED. ON CIRCUITS WHERE OTHER DEVICES, FIXTURES, ETC. ARE FOUND THAT MUST REMAIN, MAINTAIN CIRCUIT CONTINUITY BY PROVIDING ADDITIONAL WIRING, TO FEED THROUGH TO THESE REMAINING ITEMS. RELOCATE ANY CIRCUITS THAT REMAIN, TO AVOID CONFLICT WITH NEW CONSTRUCTION AS REQUIRED. PROPERLY TERMINATE ALL WIRING.

F. COORDINATE DEMOLITION OF EQUIPMENT, DEVICES, ETC. WITH OTHER DISCIPLINES AS APPLICABLE. REFER TO ARCHITECTURAL DEMOLITION DRAWINGS AND NOTES FOR COORDINATION.

G. DRAWINGS ARE GRAPHICAL REPRESENTATIONS OF APPROXIMATE EQUIPMENT AND DEVICE LOCATIONS. CONTRACTOR SHALL VISIT THE SITE TO DETERMINE THE EXACT EXTENT OF ELECTRICAL WORK REQUIRED TO COMPLETE THE PROJECT. EXISTING CONDITIONS ARE TAKEN FROM FIELD OBSERVATION AND EXISTING BUILDING DOCUMENTS. OTHER ELECTRICAL ITEMS MAY EXIST FOR WHICH THE CONTRACTOR IS RESPONSIBLE.

H. CONTRACTOR SHALL PROPERLY DISPOSE OF ALL ITEMS, EQUIPMENT, PANELS, LIGHT FIXTURES, ETC., BEING REMOVED AS PART OF THIS PROJECT. THE OWNER SHALL HAVE THE RIGHT OF RETAINING ANY ITEMS BEING REMOVED.

I. CONTRACTOR SHALL PROVIDE NEW COVERPLATES ON ALL BOXES OF UNUSED AND/OR REMOVED FLUSH MOUNT DEVICES UPON COMPLETION OF PROJECT.

J. FIREPROOFING AND/OR FIRE STOP MATERIALS REMOVED FROM FIRE RATED WALLS AND CEILINGS AS A RESULT OF DEMOLITION SHALL BE RE-INSTALLED USING AN APPROVED METHOD AS DESCRIBED IN ASSOCIATED PROJECT SPECIFICATIONS.

NEW WORK GENERAL NOTES

A. FIXTURE TYPE MARK IS INDICATED ADJACENT TO ALL LIGHT FIXTURES. REFER TO LUMINAIRE SCHEDULE ON DRAWING E903 FOR FIXTURE DESCRIPTIONS, TYPES, NOTES, AND SPECIFICATIONS.

B. ALL LIGHT FIXTURES SHOWN SHALL BE WIRED WITH (2) #12, (1) #12 GND IN 3/4" CONDUIT, WIRED TO PANEL AND CIRCUIT INDICATED. CIRCUITS EXCEEDING 100' SHALL BE WIRED WITH #10 CONDUCTORS.

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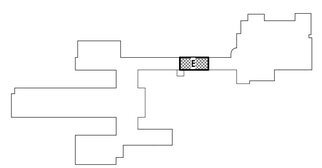
G. ALL FIXTURES INDICATED WITH "NL" DESIGNATION INDICATED A "CONSTANT ON" NIGHT LIGHT. FIXTURE TO BE WIRED TO THE UNSWITCHED " HOT LEG" OF THE CIRCUITRY FEEDING THE SPACE.

KEY NOTES

1. DISCONNECT AND REMOVE EXISTING LIGHT FIXTURES AND ALL CEILING MOUNTED DEVICES. STORE FOR RE-USE. TAG ALL WIRING FOR RE-USE.
2. EXISTING LIGHT FIXTURES AND CEILING MOUNTED DEVICES TO BE RE-INSTALLED IN NEW CEILING GRID IN APPROXIMATE LOCATIONS AS OLD. CONNECT ALL FIXTURES AND DEVICES TO EXISTING TAGGED WIRING.
3. PROVIDE NEW SMOKE DETECTORS AS SHOWN. PROVIDE NEW WIRING FROM SMOKE DETECTOR TO LOCAL SLC CIRCUIT WITHIN AREA.

KEY PLAN:



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SOUTH ORANGETOWN Central School District

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SHEET INFORMATION

Issued	Scale
10/25/2024	AS NOTED

Project Status
BID DOCUMENTS

Drawn By	Checked By
MAY	JBT

Drawing Title
GROUND FLOOR ELECTRICAL LIGHTING PLAN - AREA E

Drawing Number
TZHS
E304

EQUIPMENT	LOCATION	HP/FLA	VOLTS	PHASE	AMPS	BREAKER SIZE	WIRE/CONDUIT SIZE	PANEL/CIRCUIT	REMARKS:
SSI-1	208	0.62A	208	1	0.78A	20A/2P	2 #12, 1 #12 GND IN 3/4" C	LPA-H1/5,7	1,2
SSI-2	208	0.62A	208	1	0.78A		2 #12, 1 #12 GND IN 3/4" C		1,2
SSI-3	206	0.62A	208	1	0.78A		2 #12, 1 #12 GND IN 3/4" C		1,2
SSI-4	206	0.62A	208	1	0.78A		2 #12, 1 #12 GND IN 3/4" C		1,2
SSI-5	204	0.41A	208	1	0.51A	20A/2P	2 #12, 1 #12 GND IN 3/4" C	LPA-H1/4,6	1,2
SSI-6	204	0.41A	208	1	0.51A		2 #12, 1 #12 GND IN 3/4" C		1,2
SSI-7	202	0.41A	208	1	0.51A		2 #12, 1 #12 GND IN 3/4" C		1,2
SSI-8	202	0.41A	208	1	0.51A		2 #12, 1 #12 GND IN 3/4" C		1,2
SSI-9	200	0.62A	208	1	0.78A	20A/2P	2 #12, 1 #12 GND IN 3/4" C	LPA-H1/9,11	1,2
SSI-10	200	0.62A	208	1	0.78A		2 #12, 1 #12 GND IN 3/4" C		1,2
SSI-11	211	0.62A	208	1	0.78A		2 #12, 1 #12 GND IN 3/4" C		1,2
SSI-12	211	0.62A	208	1	0.78A		2 #12, 1 #12 GND IN 3/4" C		1,2
SSI-13	209	0.62A	208	1	0.78A	20A/2P	2 #12, 1 #12 GND IN 3/4" C	LPA-H1/8,10	1,2
SSI-14	209	0.62A	208	1	0.78A		2 #12, 1 #12 GND IN 3/4" C		1,2
SSI-15	207	0.62A	208	1	0.78A		2 #12, 1 #12 GND IN 3/4" C		1,2
SSI-16	207	0.62A	208	1	0.78A		2 #12, 1 #12 GND IN 3/4" C		1,2
SSI-17	205	0.62A	208	1	0.78A	20A/2P	2 #12, 1 #12 GND IN 3/4" C	LPA-H1/13,15	1,2
SSI-18	205	0.62A	208	1	0.78A		2 #12, 1 #12 GND IN 3/4" C		1,2
SSI-19	324	0.41A	208	1	0.51A	20A/2P	2 #12, 1 #12 GND IN 3/4" C	LPA-H2/13,15	1,2
SSI-20	324	0.41A	208	1	0.51A		2 #12, 1 #12 GND IN 3/4" C		1,2
SSI-21	324	0.41A	208	1	0.51A		2 #12, 1 #12 GND IN 3/4" C		1,2
SSI-22	324	0.41A	208	1	0.51A		2 #12, 1 #12 GND IN 3/4" C		1,2
SSI-23	320	0.41A	208	1	0.51A	20A/2P	2 #12, 1 #12 GND IN 3/4" C	LPA-H2/12,14	1,2
SSI-24	320	0.41A	208	1	0.51A		2 #12, 1 #12 GND IN 3/4" C		1,2
SSI-25	320	0.41A	208	1	0.51A		2 #12, 1 #12 GND IN 3/4" C		1,2
SSI-26	320	0.41A	208	1	0.51A		2 #12, 1 #12 GND IN 3/4" C		1,2
SSI-27	316	0.62A	208	1	0.78A	20A/2P	2 #12, 1 #12 GND IN 3/4" C	LPA-H2/17,19	1,2
SSI-28	316	0.62A	208	1	0.78A		2 #12, 1 #12 GND IN 3/4" C		1,2
SSI-29	316	0.62A	208	1	0.78A		2 #12, 1 #12 GND IN 3/4" C		1,2
SSI-30	316	0.62A	208	1	0.78A		2 #12, 1 #12 GND IN 3/4" C		1,2
SSI-31	323	0.62A	208	1	0.78A	20A/2P	2 #12, 1 #12 GND IN 3/4" C	LPA-H2/16,18	1,2
SSI-32	323	0.62A	208	1	0.78A		2 #12, 1 #12 GND IN 3/4" C		1,2
SSI-33	323	0.62A	208	1	0.78A		2 #12, 1 #12 GND IN 3/4" C		1,2
SSI-34	323	0.62A	208	1	0.78A		2 #12, 1 #12 GND IN 3/4" C		1,2
SSI-35	319	0.41A	208	1	0.51A	20A/2P	2 #12, 1 #12 GND IN 3/4" C	LPA-H2/21,23	1,2
SSI-36	319	0.41A	208	1	0.51A		2 #12, 1 #12 GND IN 3/4" C		1,2
SSI-37	319	0.41A	208	1	0.51A		2 #12, 1 #12 GND IN 3/4" C		1,2
SSI-38	319	0.41A	208	1	0.51A		2 #12, 1 #12 GND IN 3/4" C		1,2
SSI-39	317	0.62A	208	1	0.78A	20A/2P	2 #12, 1 #12 GND IN 3/4" C	LPA-H2/32,34	1,2
SSI-40	317	0.62A	208	1	0.78A		2 #12, 1 #12 GND IN 3/4" C		1,2
SSI-41	312	0.41A	208	1	0.51A		2 #12, 1 #12 GND IN 3/4" C		1,2
SSI-42	310	0.41A	208	1	0.51A		2 #12, 1 #12 GND IN 3/4" C		1,2
SSI-43	310	0.41A	208	1	0.51A		2 #12, 1 #12 GND IN 3/4" C		1,2
SSI-44	308	0.62A	208	1	0.78A	20A/2P	2 #12, 1 #12 GND IN 3/4" C	LPA-H2/25,27	1,2
SSI-45	308	0.62A	208	1	0.78A		2 #12, 1 #12 GND IN 3/4" C		1,2
SSI-46	306	0.62A	208	1	0.78A		2 #12, 1 #12 GND IN 3/4" C		1,2
SSI-47	306	0.62A	208	1	0.78A		2 #12, 1 #12 GND IN 3/4" C		1,2
SSI-48	304	0.41A	208	1	0.51A	20A/2P	2 #12, 1 #12 GND IN 3/4" C	LPA-H2/24,26	1,2
SSI-49	304	0.41A	208	1	0.51A		2 #12, 1 #12 GND IN 3/4" C		1,2
SSI-50	304	0.41A	208	1	0.51A		2 #12, 1 #12 GND IN 3/4" C		1,2
SSI-51	300	0.41A	208	1	0.51A		2 #12, 1 #12 GND IN 3/4" C		1,2
SSI-52	315	0.41A	208	1	0.51A	20A/2P	2 #12, 1 #12 GND IN 3/4" C	LPA-H2/29,31	1,2
SSI-53	315	0.41A	208	1	0.51A		2 #12, 1 #12 GND IN 3/4" C		1,2
SSI-54	309	0.62A	208	1	0.78A		2 #12, 1 #12 GND IN 3/4" C		1,2
SSI-55	309	0.62A	208	1	0.78A		2 #12, 1 #12 GND IN 3/4" C		1,2
SSI-56	307	0.62A	208	1	0.78A	20A/2P	2 #12, 1 #12 GND IN 3/4" C	LPA-H2/28,30	1,2
SSI-57	307	0.62A	208	1	0.78A		2 #12, 1 #12 GND IN 3/4" C		1,2
SSI-58	305	0.62A	208	1	0.78A		2 #12, 1 #12 GND IN 3/4" C		1,2
SSI-59	305	0.62A	208	1	0.78A		2 #12, 1 #12 GND IN 3/4" C		1,2
SSI-60	303	0.62A	208	1	0.78A	20A/2P	2 #12, 1 #12 GND IN 3/4" C	LPA-H2/33,35	1,2
SSI-61	303	0.62A	208	1	0.78A		2 #12, 1 #12 GND IN 3/4" C		1,2
SSI-62	301	0.62A	208	1	0.78A		2 #12, 1 #12 GND IN 3/4" C		1,2
SSI-63	301	0.62A	208	1	0.78A		2 #12, 1 #12 GND IN 3/4" C		1,2
SSI-64	426	0.41A	208	1	0.51A	20A/2P	2 #12, 1 #12 GND IN 3/4" C	LPA-H3/3,5	1,2
SSI-65	426	0.41A	208	1	0.51A		2 #12, 1 #12 GND IN 3/4" C		1,2
SSI-66	424	0.41A	208	1	0.51A		2 #12, 1 #12 GND IN 3/4" C		1,2

1. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR THE MOUNTING, AND LINE/LOAD SIDE CONNECTIONS OF DISCONNECT AND/OR STARTER DEVICE ASSOCIATED WITH UNIT. MEANS OF DISCONNECT AND/OR STARTER ASSOCIATED WITH UNIT PROVIDE BY MECHANICAL CONTRACTOR. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ALL FINAL CONNECTIONS TO EQUIPMENT.

2. WIRE EQUIPMENT TO SAME CIRCUIT BREAKER AS INDICATED.

LUMINAIRE SCHEDULE

MARK	DESCRIPTION	DESIGN MAKE	MODEL NUMBER	VOLTS	LAMP		REMARKS:
					WATTS	TEMPERATURE	
A	2X2 RECESSED LED TROFFER	CURRENT LIGHTING	LCAT22-9-35-HL-G-ED1-U	UNV	32	3500K	
A/EM	2X2 RECESSED LED TROFFER WITH EMERGENCY BATTERY BACKUP	CURRENT LIGHTING	LCAT22-9-35-HL-G-ED1-U-ELL14	UNV	32	3500K	3,4
B	2X2 RECESSED LED FLAT PANEL	CURRENT LIGHTING	CFP22-40/33/2835	UNV	40	3500K	1
B/EM	2X2 RECESSED LED FLAT PANEL EMERGENCY BATTERY BACKUP	CURRENT LIGHTING	CFP22-40/33/2835-ELL14	UNV	4	3500K	1,3,4
C	2X2 RECESSED LED TROFFER	CURRENT LIGHTING	LHFL-G-D-22-SOF-C1-35K-D42-D01-UNV	UNV	33	3500K	
C/EM	2X2 RECESSED LED TROFFER EMERGENCY BATTERY BACKUP	CURRENT LIGHTING	LHFL-G-D-22-SOF-C1-35K-D42-D01-UNV-EF	UNV	33	3500K	3,4
D	6" RECESSED ARCHITECTURAL DOWNLIGHT	CURRENT LIGHTING	LTR-6RD-H-ML-30L-DM1-LTR-6RD-T-ML-35K-9-NR-SS-WT-FM-B6-FMR6-R	UNV	30	3500K	5
X1	LED EXIT SIGN	CURRENT LIGHTING	CEWSRE	UNV	3	-	3,4

REMARKS:
1. FIXTURE TO BE SET AT 40 (4000 LUMENS) IN FIELD BEFORE INSTALLATION.
2. FIXTURES TO BE MOUNTED TO UNDERSIDE OF ROOF. PROVIDE ALL MOUNTING HARDWARE NECESSARY.
3. ALL FIXTURES SHOWN WITH AN "EM" DESIGNATION INDICATES AND EMERGENCY FIXTURE. PROVIDE EMERGENGY BATTERY BACKUP FOR EACH FIXTURE INDICATED.
4. ALL "EM" BATTERY BACKUPS WITHIN FIXTURE SHALL BE WIRED TO THE UNSWITCHED HOT LEG OF THE CIRCUIT FEEDING IT.
5. FIXTURES WITH "EM" DESIGNATION SHALL BE PROVIDED WITH HOUSING OPTION 'EM' FOR EMERGENCY BATTERY PACK.

EQUIPMENT	LOCATION	HP/FLA	VOLTS	PHASE	AMPS	BREAKER SIZE	WIRE/CONDUIT SIZE	PANEL/CIRCUIT	REMARKS:
ERU-1	ROOF	125A	208	3	152A	175A/3P	3 #2/0, 1 #6 IN 2"C	LPA-ERU/1,3,5	1
ERU-2	ROOF	186A	208	3	191A	200A/3P	3 #3/0, 1 #6 IN 2"C	LPA-ERU/2,4,6	1
ERU-3	ROOF	179A	208	3	218A	225A/3P	3 #4/0, 1 #4 IN 2-1/2"C	LPA-ERU/7,9,11	1
ERU-4	ROOF	125A	208	3	152A	175A/3P	3 #2/0, 1 #6 IN 2"C	LPA-ERU/8,10,12	1
ERU-5	ROOF	179A	208	3	218A	225A/3P	3 #4/0, 1 #4 IN 2-1/2"C	LPA-ERU/13,15,17	1
ERU-6	ROOF	145A	208	3	181A	200A/3P	3 #3/0, 1 #6 IN 2"C	LPA-ERU/14,16,18	1
ERU-7	ROOF	125A	208	3	152A	175A/3P	3 #2/0, 1 #6 IN 2"C	LPA-ERU/19,21,23	1
ERU-8	ROOF	125A	208	3	152A	175A/3P	3 #2/0, 1 #6 IN 2"C	LPA-ERU/20,22,24	1
ERU-9	ROOF	101A	208	3	123A	125A/3P	3 #1/0, 1 #6 IN 2"C	LPA-ERU/25,27,29	1
ERU-10	ROOF	138A	208	3	172A	175A/3P	3 #2/0, 1 #6 IN 2"C	LPA-ERU/26,28,30	1
ERU-11	ROOF	125A	208	3	152A	175A/3P	3 #2/0, 1 #6 IN 2"C	LPA-ERU/31,33,35	1
ERU-12	ROOF	81A	208	3	97A	100A/3P	3 #3, 1 #8 IN 1-1/4"C	LPA-ERU/32,34,36	1
ERU-13	FITNESS 124	4.5A	208	1	10.1A	20A/2P	2 #12, 1 #12 IN 3/4"C	SUB DIST 2B/14,16	1,2
ERU-14	ROOF	85A	208	3	89A	90A/3P	3 #3, 1 #8 IN 1-1/4"C	LPA-ERU/37,39,41	1
ACC-1	ROOF	-	208	3	81.6A	100A/3P	3 #2, 1 #8 GND IN 1-1/2" C	LPA-H1,17,19,21	1
ACC-2	ROOF	-	208	3	119.6A	150A/3P	3 #1/0, 1 #6 GND IN 1-1/2" C	LPA-H1,16,18,20	1
ACC-3	ROOF	-	208	3	93.7A	125A/3P	3 #1, 1 #6 GND IN 1-1/2" C	LPA-H2/36,38,40	1
ACC-4	ROOF	-	208	3	99.6A	125A/3P	3 #1, 1 #6 GND IN 1-1/2" C	LPA-H2/41,43,45	1
ACC-5	ROOF	-	208	3	93.7A	125A/3P	3 #1, 1 #6 GND IN 1-1/2" C	LPA-H2/42,44,46	1
ACC-6	ROOF	-	208	3	119.6A	150A/3P	3 #1/0, 1 #6 GND IN 1-1/2" C	LPA-H2/47,49,51	1
ACC-7	ROOF	-	208	3	71A	90A/3P	3 #3, 1# 8 GND IN 1-1/2" C	LPA-H3/27,29,31	1
ACC-8	ROOF	-	208	3	71A	90A/3P	3 #3, 1# 8 GND IN 1-1/2" C	LPA-H3/28,30,32	1
ACC-9	ROOF	-	208	3	81.6A	100A/3P	3 #2, 1 #8 GND IN 1-1/2" C	LPA-H3/33,35,37	1
ACC-10	ROOF	-	208	3	71A	90A/3P	3 #3, 1# 8 GND IN 1-1/2" C	LPA-H3,34,36,38	1
ACC-11	ROOF	-	208	3	71A	90A/3P	3 #3, 1# 8 GND IN 1-1/2" C	LPA-H3/39,41,43	1
ACC-12	ROOF	-	208	3	71A	90A/3P	3 #3, 1# 8 GND IN 1-1/2" C	LPA-H3/40,42,44	1
RBU-1	CORRIDOR 159	226W	208	1	1A	20A/2P	2 #12, 1 #12 IN 3/4"C	LPA-H1/22,24	1,3
RBU-2	CORRIDOR 159	339W	208	1	1A		2 #12, 1 #12 IN 3/4"C		1,3
RBU-3	CORRIDOR 159	28W	208	1	1A		2 #12, 1 #12 IN 3/4"C		1,3
RBU-4	CORRIDOR 155	226W	208	1	1A	20A/2P	2 #12, 1 #12 IN 3/4"C	LPA-H2/1,3	1,3
RBU-5	CORRIDOR 155	110W	208	1	1A		2 #12, 1 #12 IN 3/4"C		1,3
RBU-6	CORRIDOR 155	339W	208	1	1A		2 #12, 1 #12 IN 3/4"C		1,3
RBU-7	CORRIDOR 155	110W	208	1	1A		2 #12, 1 #12 IN 3/4"C		1,3
RBU-8	CORRIDOR 155	339W	208	1	1A	20A/2P	2 #12, 1 #12 IN 3/4"C	LPA-H2/2,4	1,3
RBU-9	CORRIDOR 155	339W	208	1	1A		2 #12, 1 #12 IN 3/4"C		1,3
RBU-10	CORRIDOR 155	28W	208	1	1A		2 #12, 1 #12 IN 3/4"C		1,3
RBU-11	CORRIDOR 7	226W	208	1	1A	20A/2P	2 #12, 1 #12 IN 3/4"C	LPA-H3/45,47	1,3
RBU-12	CORRIDOR 7	226W	208	1	1A		2 #12, 1 #12 IN 3/4"C		1,3
RBU-13	CORRIDOR 7	226W	208	1	1A		2 #12, 1 #12 IN 3/4"C		1,3
RBU-14	CORRIDOR 7	339W	208	1	1A	20A/2P	2 #12, 1 #12 IN 3/4"C	LPA-H3/46,48	1,3
RBU-15	CORRIDOR 7	226W	208	1	1A		2 #12, 1 #12 IN 3/4"C		1,3
RBU-16	CORRIDOR 7	339W	208	1	1A		2 #12, 1 #12 IN 3/4"C		1,3
RBU-17	FITNESS 124	41W	208	1	1A	20A/2P	2 #12, 1 #12 IN 3/4"C	SUB DIST 2A/37,39	1,2,3
RBU-18	FITNESS 124	41W	208	1	1A		2 #12, 1 #12 IN 3/4"C		1,2,3
EFT-1	FITNESS 124	2.5KW	208	1	12A	20A/2P	2 #12, 1 #12 IN 3/4"C	SUB DIST 2A/20,22	1,2
EFT-2	FITNESS 124	2.5KW	208	1	12A	20A/2P	2 #12, 1 #12 IN 3/4"C	SUB DIST 2A/32,34	1,2
EFT-3	FITNESS 124	2.5KW	208	1	12A	20A/2P	2 #12, 1 #12 IN 3/4"C	SUB DIST 2A/36,38	1,2
EFT-4	FITNESS 124	2.5KW	208	1	12A	20A/2P	2 #12, 1 #12 IN 3/4"C	SUB DIST 2A/40,42	1,2
EFT-5	FITNESS 124	2.5KW	208	1	12A	20A/2P	2 #12, 1 #12 IN 3/4"C	SUB DIST 2C/34,36	1,2
EFT-6	FITNESS 124	2.5KW	208	1	12A	20A/2P	2 #12, 1 #12 IN 3/4"C	SUB DIST 2C/38,40	1,2
EFT-7	FITNESS 124	1.4KW	208	1	7A	20A/2P	2 #12, 1 #12 IN 3/4"C	PPW/63,65	1,2

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2. BY ALTERNATE EC-01

3. WIRE EQUIPMENT TO SAME CIRCUIT BREAKER AS INDICATED.

CPL | Architecture Engineering Planning
26 IBM Road
Poughkeepsie, NY 12601
CPLeam.com
NY ENGINEERING FIRM CERTIFICATE #0021419

SOUTH ORANGETOWN Central School District
Capital Improvements Bond
Essential Infrastructure for Student Health, Safety and Success

PROJECT INFORMATION

Project Number
14457.20

Client Name
SOUTH ORANGETOWN CENTRAL SCHOOL DISTRICT

Project Name
PHASE 2: 2022 BOND

TAPPAN ZEE HIGH SCHOOL

Building Address
160 VAN WYCK RD., BLAUVELT, NY 10913

SED # 50-03-01-06-0-006-033

Registration Expiration Dates
Lauren Tanio 09/30/26
Anthony Marchetti 05/31/27
Dave Hart 02/28/25
Jennifer Wengender 06/30/27

PROJECT ISSUE & REVISION SCHEDULE

#	Date	Description

PROFESSIONAL STAMPS

NEW YORK STATE EDUCATION STATEMENT

IT IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND THE COMMISSIONER'S REGULATIONS FOR ANY PERSON, UNLESS HE OR SHE IS ACTING UNDER THE DIRECTION OF AN ARCHITECT, ENGINEER OR LAND SURVEYOR TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE SEAL OF AN ARCHITECT, ENGINEER OR SURVEYOR IS ALTERED, THE ALTERING PARTY SHALL AFFIX TO THE ITEM THEIR SEAL AND THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE AND THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

SHEET INFORMATION

Issued: 10/25/2024
Scale: 12" = 1'-0"
Project Status: BID DOCUMENTS
Drawn By: MAY
Checked By: JBT
Drawing Title: ELECTRICAL SCHEDULES

Drawing Number
TZHS
E900

PANEL: LPA-ERU

LOCATION: IT 311A
VOLTAGE:
FED FROM:
MOUNTING: Surface

A.I.C. RATING: 65K
MCB RATING: Type 1
MAIN BUS RATING: 2000 A

...	BRKR			LOAD DESCRIPTION	A		B		C		LOAD DESCRIPTION	BRKR		...
1					15011	22336								2
3	175	3		ERU-1			15011	22336			ERU-2	3	200	4
5									15011	22336				6
7					21496	15011								8
9	225	3		ERU-3			21496	15011			ERU-4	3	175	10
11									21496	15011				12
13					21496	17413								14
15	225	3		ERU-5			21496	17413			ERU-6	3	200	16
17									21496	17413				18
19					15011	15011								20
21	175	3		ERU-7			15011	15011			ERU-8	3	175	22
23									15011	15011				24
25					12129	16572								26
27	125	3		ERU-9			12129	16572			ERU-10	3	175	28
29									12129	16572				30
31					15011	9727								32
33	175	3		ERU-11			15011	9727			ERU-12	3	100	34
35									15011	9727				36
37					10207	--					SPACE	1	--	38
39	90	3		ERU-14			10207	--			SPACE	1	--	40
41									10207	--	SPACE	1	--	42
43	--	1		SPACE	--	--					SPACE	1	--	44
45	--	1		SPACE			--	--			SPACE	1	--	46
47	--	1		SPACE					--	--	SPACE	1	--	48
49	--	1		SPACE	--	--					SPACE	1	--	50
51	--	1		SPACE			--	--			SPACE	1	--	52
53	--	1		SPACE					--	--	SPACE	1	--	54
				TOTAL LOAD	206430 VA		206430 VA		206430 VA					

Load Classification

Load	Connected VA	Demand Factor	Demand VA
Recept.			
Lighting			
HVAC			
Motors			
Refrig.			
Kitchen			
Misc.	619291 VA	75.00%	464468 VA

Panel Totals

Connected Load	619291 VA
Estimated Load	464468 VA
Connected Amps	1719 A
Demand Amps	1289 A

PANEL: LPA-H1

LOCATION: IT 201
VOLTAGE:
FED FROM:
MOUNTING: Surface

A.I.C. RATING: 10K
MCB RATING: Type 1
MAIN BUS RATING: 400 A

...	BRKR		LOAD DESCRIPTION	A		B		C		LOAD DESCRIPTION	BRKR		...
1	20	1	RECEPTACLE: CLASSROOM 207	540	540					RECEPTACLE: CLASSROOM 205	1	20	2
3	20	1	RECEPTACLE: ROOF			360	212			SSI-5, SSI-6, SSI-7, SSI-8	2	20	4
5	20	2	SSI-1, SSI-2, SSI-3, SSI-4					324	212				6
7				324	324					SSI-13, SSI-14, SSI-15, SSI-16	2	20	8
9	20	2	SSI-9, SSI-10, SSI-11, SSI-12			324	324						10
11								324	418	SSI-114, SSI-15, SSI-116, SSI-117	2	20	12
13	20	2	SSI-17, SSI-18	162	418								14
15						162	14362						16
17	100	3	ACC-1					9799	14362	ACC-2	3	150	18
19				9799	14362								20
21						9799	297			RBU-1,2,3	2	20	22
23	20	1	FIRE/SMOKE DAMPERS					1500	297				24
25	20	1	POWER	500	0					SPARE	2	20	26
27	20	2	SPARE			0	0						28
29								0	0	SPARE	2	20	30
31	20	2	SPARE	0	0								32
33						0	0			SPARE	1	20	34
35	20	1	SPARE					0	0	SPARE	1	20	36
37	20	1	SPARE	0	0					SPARE	1	20	38
39	20	1	SPARE			0	0			SPARE	1	20	40
41	20	1	SPARE					0	0	SPARE	1	20	42
43	20	1	SPARE	0	0					SPARE	1	20	44
45	--	1	SPACE			--	--			SPACE	1	--	46
47	--	1	SPACE					--	--	SPACE	1	--	48
49	--	1	SPACE	--	--					SPACE	1	--	50
51	--	1	SPACE			--	--			SPACE	1	--	52
53	--	1	SPACE					--	--	SPACE	1	--	54
			TOTAL LOAD	26969 VA		25840 VA		27236 VA					

Load Classification

Load	Connected VA	Demand Factor	Demand VA
Recept.	1440 VA	100.00%	1440 VA
Lighting			
HVAC			
Motors			
Refrig.			
Kitchen			
Misc.	76605 VA	75.00%	57454 VA

Panel Totals

Connected Load	80045 VA
Estimated Load	60894 VA
Connected Amps	222 A
Demand Amps	169 A

EQUIPMENT	LOCATION	HP/FLA	VOLTS	PHASE	AMPS	BREAKER SIZE	WIRE/CONDUIT SIZE	PANEL/CIRCUIT	REMARKS:
SSI-67	424	0.41A	208	1	0.51A	20A/2P	2 #12, 1 #12 GND IN 3/4" C	LPA-H3/3,5	1
SSI-68	422	0.41A	208	1	0.51A		2 #12, 1 #12 GND IN 3/4" C		1,2
SSI-69	422	0.41A	208	1	0.51A		2 #12, 1 #12 GND IN 3/4" C		1,2
SSI-70	420	0.41A	208	1	0.51A		2 #12, 1 #12 GND IN 3/4" C	LPA-H3/4,6	1,2
SSI-71	420	0.41A	208	1	0.51A		2 #12, 1 #12 GND IN 3/4" C		1,2
SSI-72	418	0.62A	208	1	0.78A		2 #12, 1 #12 GND IN 3/4" C		1,2
SSI-73	418	0.62A	208	1	0.78A		2 #12, 1 #12 GND IN 3/4" C		1,2
SSI-74	416	0.25A	208	1	0.32A	20A/2P	2 #12, 1 #12 GND IN 3/4" C	LPA-H3/7,9	1,2
SSI-75	423	0.62A	208	1	0.78A		2 #12, 1 #12 GND IN 3/4" C		1,2
SSI-76	423	0.62A	208	1	0.78A		2 #12, 1 #12 GND IN 3/4" C		1,2
SSI-77	421	0.62A	208	1	0.78A		2 #12, 1 #12 GND IN 3/4" C		1,2
SSI-78	421	0.62A	208	1	0.78A	20A/2P	2 #12, 1 #12 GND IN 3/4" C	LPA-H3/8,10	1,2
SSI-79	419	0.62A	208	1	0.78A		2 #12, 1 #12 GND IN 3/4" C		1,2
SSI-80	419	0.62A	208	1	0.78A		2 #12, 1 #12 GND IN 3/4" C		1,2
SSI-81	417	0.62A	208	1	0.78A		2 #12, 1 #12 GND IN 3/4" C		1,2
SSI-82	417	0.62A	208	1	0.78A	20A/2P	2 #12, 1 #12 GND IN 3/4" C	LPA-H3/11,13	1,2
SSI-83	415	0.62A	208	1	0.78A		2 #12, 1 #12 GND IN 3/4" C		1,2
SSI-84	415	0.62A	208	1	0.78A		2 #12, 1 #12 GND IN 3/4" C		1,2
SSI-85	413	0.62A	208	1	0.78A		2 #12, 1 #12 GND IN 3/4" C		1,2
SSI-86	413	0.62A	208	1	0.78A	20A/2P	2 #12, 1 #12 GND IN 3/4" C	LPA-H3/12,14	1,2
SSI-87	414	0.41A	208	1	0.51A		2 #12, 1 #12 GND IN 3/4" C		1,2
SSI-88	414	0.41A	208	1	0.51A		2 #12, 1 #12 GND IN 3/4" C		1,2
SSI-89	412	0.41A	208	1	0.51A		2 #12, 1 #12 GND IN 3/4" C		1,2
SSI-90	412	0.41A	208	1	0.51A	20A/2P	2 #12, 1 #12 GND IN 3/4" C	LPA-H3/15,17	1,2
SSI-91	410	0.41A	208	1	0.51A		2 #12, 1 #12 GND IN 3/4" C		1,2
SSI-92	410	0.41A	208	1	0.51A		2 #12, 1 #12 GND IN 3/4" C		1,2
SSI-93	408	0.41A	208	1	0.51A		2 #12, 1 #12 GND IN 3/4" C		1,2
SSI-94	408	0.41A	208	1	0.51A		2 #12, 1 #12 GND IN 3/4" C		1,2
SSI-95	406	0.41A	208	1	0.51A	20A/2P	2 #12, 1 #12 GND IN 3/4" C	LPA-H3/16,18	1,2
SSI-96	406	0.41A	208	1	0.51A		2 #12, 1 #12 GND IN 3/4" C		1,2
SSI-97	400	0.41A	208	1	0.51A		2 #12, 1 #12 GND IN 3/4" C		1,2
SSI-98	411	0.62A	208	1	0.78A		2 #12, 1 #12 GND IN 3/4" C		1,2
SSI-99	411	0.62A	208	1	0.78A	20A/2P	2 #12, 1 #12 GND IN 3/4" C	LPA-H3/19,21	1,2
SSI-100	409	0.62A	208	1	0.78A		2 #12, 1 #12 GND IN 3/4" C		1,2
SSI-101	409	0.62A	208	1	0.78A		2 #12, 1 #12 GND IN 3/4" C		1,2
SSI-102	407	0.62A	208	1	0.78A		2 #12, 1 #12 GND IN 3/4" C		1,2
SSI-103	407	0.62A	208	1	0.78A	20A/2P	2 #12, 1 #12 GND IN 3/4" C	LPA-H3/20,22	1,2
SSI-104	405	0.62A	208	1	0.78A		2 #12, 1 #12 GND IN 3/4" C		1,2
SSI-105	405	0.62A	208	1	0.78A		2 #12, 1 #12 GND IN 3/4" C		1,2
SSI-106	403	0.62A	208	1	0.78A		2 #12, 1 #12 GND IN 3/4" C		1,2
SSI-107	403	0.62A	208	1	0.78A	20A/2P	2 #12, 1 #12 GND IN 3/4" C	LPA-H3/23,25	1,2
SSI-108	401	0.62A	208	1	0.78A		2 #12, 1 #12 GND IN 3/4" C		1,2
SSI-109	401	0.62A	208	1	0.78A		2 #12, 1 #12 GND IN 3/4" C		1,2
SSI-110	7	2.16A	208	1	2.7A		2 #12, 1 #12 GND IN 3/4" C		1,2
SSI-111	7	2.16A	208	1	2.7A	20A/2P	2 #12, 1 #12 GND IN 3/4" C	LPA-H3/24,26	1,2
SSI-112	155	2.16A	208	1	2.7A		2 #12, 1 #12 GND IN 3/4" C		1,2
SSI-113	155	2.16A	208	1	2.7A		2 #12, 1 #12 GND IN 3/4" C		1,2
SSI-114	159	2.16A	208	1	2.7A		2 #12, 1 #12 GND IN 3/4" C		1,2
SSI-115	201	0.39A	208	1	0.49A	20A/2P	2 #12, 1 #12 GND IN 3/4" C	LPA-H1/12,14	1,2
SSI-116	311	0.33A	208	1	0.42A		2 #12, 1 #12 GND IN 3/4" C		1,2
SSI-117	311A	0.33A	208	1	0.42A		2 #12, 1 #12 GND IN 3/4" C		1,2
SSI-118	312A	0.17A	208	1	0.22A	20A/2P	2 #12, 1 #12 GND IN 3/4" C	LPA-H2/37,39	1,2
SSI-119	416A	0.41A	208	1	0.61A		2 #12, 1 #12 GND IN 3/4" C		1,2
SSI-120	124	0.62A	208	1	0.78A		2 #12, 1 #12 GND IN 3/4" C		1,2
SSI-121	124	0.62A	208	1	0.78A	20A/2P	2 #12, 1 #12 GND IN 3/4" C	LPC-GA/28,30	1,2
SSI-122	124	0.62A	208	1	0.78A		2 #12, 1 #12 GND IN 3/4" C		1,2
SSI-123	125	0.23A	208	1	0.29A		2 #12, 1 #12 GND IN 3/4" C		1,2
SSO-1	EXTERIOR	27.5A	208	3	39A	50A/3P	3 #8, 1 #10 GND IN 1" C	LPC-GA/32,34,36	1
EC-1	124	28KW	208	3	78A	100A/3P	3 #2, 1 #8 GND IN 1-1/2" C	SUB DIST. 2C/37,39,41	1
ERU-13	124	4.5A	208	1	10.1A	20A/2P	2 #12, 1 #12 GND IN 3/4" C	LPC-GA/38,40	1
BOILER B-2	BOILER ROOM	2HP	208	3	7.8A	20A/3P	3 #12, 1 #12 GND IN 3/4" C	EBP/16,18,20	1,3
BOILER B-3	BOILER ROOM	2HP	208	3	7.8A	20A/3P	3 #12, 1 #12 GND IN 3/4" C	EBP/22,24,26	1,3
BOILER B-4	BOILER ROOM	18A	208	3	20A	20A/3P	3 #12, 1 #12 GND IN 3/4" C	EBP/13,15,17	1,3
PUMP P-1	BOILER ROOM	3.3A	208	1	4A	20A/2P	2 #12, 1 #12 GND IN 3/4" C	EBP/25,27	1
PUMP P-2	BOILER ROOM	5HP	208	3	17.5A	40A/3P	2 #12, 1 #12 GND IN 3/4" C	EBP/19,21,23	1
CUH-1	CORRIDOR 159	0.05HP	120	1	1A	20A/1P	2 #12, 1 #12 GND IN 3/4" C	LPA-H1/25	1
CUH-2	CORRIDOR 02-107	0.05HP	120	1	1A	20A/1P	2 #12, 1 #12 GND IN 3/4" C	LPA-H3/49	1,2
CUH-3	CORRIDOR 02-107	0.05HP	120	1	1A		2 #12, 1 #12 GND IN 3/4" C		1,2

1. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR THE MOUNTING, AND LINE/LOAD SIDE CONNECTIONS OF DISCONNECT AND/OR STARTER DEVICE ASSOCIATED WITH UNIT. MEANS OF DISCONNECT AND/OR STARTER ASSOCIATED WITH UNIT PROVIDE BY MECHANICAL CONTRACTOR. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ALL FINAL CONNECTIONS TO EQUIPMENT.

2. WIRE EQUIPMENT TO SAME CIRCUIT BREAKER AS INDICATED.

3. BOILERS TO BE WIRED THROUGH VFD AND THEN ONTO BOILER. WIRE BETWEEN VFD AND BOILER WITH WIRE SIZE INDICATED.

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NY ENGINEERING FIRM CERTIFICATE #0021419

SOUTH ORANGETOWN Central School District
Capital Improvements Bond
Essential Infrastructure for Student Health, Safety and Success

PROJECT INFORMATION

Project Number
14457.20

Client Name
SOUTH ORANGETOWN CENTRAL SCHOOL DISTRICT

Project Name
PHASE 2: 2022 BOND

TAPPAN ZEE HIGH SCHOOL

Building Address
160 VAN WYCK RD., BLAUVELT, NY 10913

SED # 50-03-01-06-0-006-033

Registration Expiration Dates
Lauren Tanio 09/30/26
Anthony Marchetti 05/31/27
Dave Hart 02/28/25
Jennifer Wengender 06/30/27

PROJECT ISSUE & REVISION SCHEDULE

#	Date	Description

PROFESSIONAL STAMPS

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SHEET INFORMATION

Issued: 10/25/2024
Scale: 12" = 1'-0"
Project Status: BID DOCUMENTS
Drawn By: MAY
Checked By: JBT
Drawing Title: ELECTRICAL SCHEDULES

Drawing Number
TZHS
E901

PANEL: LPA-H2

LOCATION: STORAGE 02-101 **A.I.C. RATING:** 10K
VOLTAGE: **MCB RATING:** Type 1
FED FROM: **MAIN BUS RATING:** 400 A
MOUNTING: Surface

...	BRKR		LOAD DESCRIPTION	A		B		C		LOAD DESCRIPTION	BRKR		...
1	20	1	RBU-4,5,6,7	393	353					RBU-8,9,10	2	20	2
3						393	353						4
5	20	2	SPARE					0	0	SPARE	2	20	6
7				0	0								8
9	20	1	SPARE			0	360			RECEPTACLE: ROOF AREA C1	1	20	10
11	20	1	RECEPTACLE: ROOF AREA C2					540	212	SSI-23, SSI-24, SSI-25, SSI-26	2	20	12
13	20	2	SSI-19, SSI-20, SSI-21, SSI-22	212	212								14
15						212	324			SSI-31, SSI-32, SSI-33, SSI-34	2	20	16
17	20	2	SSI-27, SSI-28, SSI-29, SSI-30					324	324				18
19				324	0					SPARE	2	20	20
21	20	2	SSI-35, SSI-36, SSI-37, SSI-38			212	0						22
23								212	212	SSI-48, SSI-49, SSI-50, SSI-51	2	20	24
25	20	2	SSI-44, SSI-45, SSI-46, SSI-47	324	212								26
27						324	1000						28
29	20	2	SSI-52, SSI-53, SSI-54, SSI-55					212	1000	SSI-56, SSI-57, SSI-58, SSI-59	2	20	30
31				212	321								32
33	20	2	SSI-60, SSI-61, SSI-62, SSI-63			324	321			SSI-39, SSI-40, SSI-41, SSI-42, SSI-43	2	20	34
35								324	11252				36
37	20	2	SSI-118, SSI-119	86	11252					ACC-3	3	125	38
39						86	11252						40
41								11961	11252				42
43	125	3	ACC-4	11961	11252					ACC-5	3	125	44
45						11961	11252						46
47								14362	0	SPARE	1	20	48
49	150	3	ACC-6	14362	0					SPARE	1	20	50
51						14362	0			SPARE	1	20	52
53	20	1	SPARE					0	0	SPARE	1	20	54
			TOTAL LOAD	51475 VA		52735 VA		52187 VA					

Load Classification

Load	Connected VA	Demand Factor	Demand VA
Recept.	900 VA	100.00%	900 VA
Lighting			
HVAC			
Motors			
Refrig.			
Kitchen			
Misc.	155497 VA	75.00%	116623 VA

Panel Totals

Connected Load	156397 VA
Estimated Load	117523 VA
Connected Amps	434 A
Demand Amps	326 A

PANEL: LPA-H3

LOCATION: STORAGE 402 **A.I.C. RATING:** 10K
VOLTAGE: **MCB RATING:** Type 1
FED FROM: **MAIN BUS RATING:** 400 A
MOUNTING: Surface

...	BRKR		LOAD DESCRIPTION	A		B		C		LOAD DESCRIPTION	BRKR		...
1	20	1	RECEPTACLE: ROOF AREA D1	540	540					RECEPTACLE: ROOF AREA D2	1	20	2
3	20	2	SSI-64, SSI-65, SSI-66, SSI-67			212	212			SSI-68, SSI-69, SSI-70, SSI-70	2	20	4
5								212	212				6
7	20	2	SSI-72, SSI-73, SSI-74, SSI-75, SSI-76	357	324								8
9						357	324			SSI-77, SSI-78, SSI-79, SSI-80	2	20	10
11	20	2	SSI-81, SSI-82, SSI-83, SSI-84					324	268	SSI-85, SSI-86, SSI-87, SSI-88	2	20	12
13				324	268								14
15	20	2	SSI-89, SSI-90, SSI-91, SSI-92			212	265						16
17								212	265	SSI-93, SSI-94, SSI-95, SSI-96, SSI-97	2	20	18
19	20	2	SSI-98, SSI-99, SSI-100, SSI-101	324	324								20
21						324	324			SSI-102, SSI-103, SSI-104, SSI-105	2	20	22
23	20	2	SSI-106, SSI-107, SSI-108, SSI-109					324	1122				24
25				324	1122					SSI-110, SSI-11, SSI-12, SSI-13	2	20	26
27						8526	8526						28
29	90	3	ACC-7					8526	8526	ACC-8	3	90	30
31				8526	8526								32
33						9799	8526						34
35	100	3	ACC-9					9799	8526	ACC-10	3	90	36
37				9799	8526								38
39						8526	8526						40
41	90	3	ACC-11					8526	8526	ACC-12	3	90	42
43				8526	8526								44
45						339	452						46
47	20	2	RBU-11,12,13					339	452	RBU-14,15,16	2	20	48
49	20	1	CUH-2, CUH-3	1000	0					SPARE	1	20	50
51	20	1	SPARE			0	0			SPARE	1	20	52
53	20	1	SPARE					0	0	SPARE	1	20	54
			TOTAL LOAD	57876 VA		55450 VA		56159 VA					

Load Classification

Load	Connected VA	Demand Factor	Demand VA
Recept.	1080 VA	100.00%	1080 VA
Lighting			
HVAC			
Motors			
Refrig.			
Kitchen			
Misc.	167405 VA	75.00%	125554 VA

Panel Totals

Connected Load	169485 VA
Estimated Load	127634 VA
Connected Amps	470 A
Demand Amps	354 A

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NY ENGINEERING FIRM CERTIFICATE #0021419

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Essential Infrastructure for Student Health, Safety and Success

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14457.20

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SHEET INFORMATION

Issued: 10/25/2024
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Drawn By: MAY
Checked By: JBT
Drawing Title: ELECTRICAL SCHEDULES

Drawing Number
TZHS
E902

10/24/2024 4:14:28 PM <project location>\REVIT PROJECT FILES ON BIM 360

COMMUNICATIONS SYSTEMS

- CEILING MOUNTED WIRELESS ACCESS POINT
- WAP — WALL MOUNTED WIRELESS ACCESS POINT
- ANT — ANTENNA
- COMMUNICATIONS OUTLET AND (#) NUMBER OF NETWORK JACKS
- EXISTING COMMUNICATIONS OUTLET AND (#) NUMBER OF JACKS
- EXISTING COMMUNICATIONS OUTLET TELEPHONE OR NETWORK TO BE REMOVED INCLUDING ASSOCIATED CABLING BACK TO SOURCE.
- CEILING COMMUNICATIONS OUTLET AND (#) NUMBER OF NETWORK JACKS
- TEL — TEXT ADJACENT TO TELEPHONE SYMBOL INDICATES PHONE MOUNTING/PLACEMENT (Y) AND PHONE TYPE (Z). REFER TO LIST BELOW FOR DEFINITIONS

W	WALL MOUNTED DEVICE
D	DESK PLACEMENT
A	ANALOG LINE
ELV	ELEVATOR LINE
FAX	FAX LINE
KEM	KEY EXPANSION MODULE
B	BASIC TYPE PHONE (ANALOG)
B-IP	BASIC TYPE PHONE (IP)
C	CONFERENCE TYPE PHONE
O	OFFICE TYPE PHONE
S	STANDARD TYPE PHONE
V	VIDEO TYPE PHONE
CBE	CALL BOX ENCLOSURE

- 2 POST DATA RACK
- LAN — DATA CABINET - "W" INDICATES WALL MOUNT
- 4 POST DATA RACK
- CABLE LADDER RACK
- MTGB — MAIN TELECOMMUNICATIONS GROUNDING BUS BAR
- TGB — TELECOMMUNICATIONS GROUNDING BUS BAR
- UT — UNDERGROUND TELECOMMUNICATIONS CONDUITS
- P — PROJECTOR
- HDMI — HDMI JACK / CABLE
- WM — WIREMOLD

AUDIO VISUAL LEGEND

- AV — AUDIO VIDEO INPUT
- ED S — COMBINATION CLOCK/SPEAKER DIGITAL EMERGENCY DISPLAY
- ED — DIGITAL EMERGENCY DISPLAY
  - L= LARGE DISPLAY
  - DS= DOUBLE SIDED LARGE DISPLAY
  - PE= PROTECTIVE ENCLOSURE
- S — IP SPEAKER - CEILING TYPE
- S A — ANALOG CEILING SPEAKER
- H — ANALOG HORN
- S — IP SPEAKER - WALL TYPE
- S A — ANALOG WALL SPEAKER
- NAC — NOTIFICATION APPLIANCE CIRCUIT BOOSTER
- V — VOLUME CONTROL
- CLOCK
- S — COMBINATION CLOCK/SPEAKER
- PA — PA SYSTEM RACK
- XDISPLAY — IP ELECTRONIC DISPLAY
  - W= WALL MOUNT
  - DSC= DUAL SIDED CEILING MOUNT
  - DSW= DUAL SIDED WALL MOUNT

SECURITY LEGEND

- CR — CARD READER
- DACP — DOOR ACCESS CONTROL PANEL
- DRB — DOOR RELEASE BUTTON
- DC — DOOR CONTACT F=FLOOR TYPE
- EDS — ELECTRIC DOOR STRIKE
- ELR — ELECTRIC LATCH RETRACTION
- IC — INTERCOM STATION
- PS — POWER SUPPLY
- RIM — READER INTERFACE MODULE
- RL — READER LOCK
- REX — REQUEST TO EXIT
- ALM — ALARM
- IDCP — INTRUSION DETECTION CONTROL PANEL
- KP — KEYPAD
- MD — MOTION DETECTOR
- PANIC BUTTON
- M — MONITOR
- SECURITY CAMERA
  - W=WALL MOUNT, C=CEILING MOUNT
  - A B — CAMERA TYPE/PACKAGE IN SPECIFICATIONS
  - LENS VIEW
  - XX-YY — CAMERA IDENTIFIER XX=FACILITY, YY=CAMERA NUMBER
- VIC — VIDEO INTERCOM STATION
- PS — VIDEO INTERCOM STATION

EXISTING, NEW, REMOVAL NOTATION LEGEND

- DASHED AND / OR HATCHED INDICATES EXISTING EQUIPMENT TO BE REMOVED
- SOLID LIGHT INDICATES EXISTING TO REMAIN EQUIPMENT
- HEAVY & SOLID INDICATES EQUIPMENT TO BE PROVIDED NEW
- (E) — EXISTING EQUIPMENT TO REMAIN. MAINTAIN EXISTING ELECTRICAL CONNECTIONS UNLESS OTHERWISE NOTED
- (RE) — EXISTING EQUIPMENT TO BE REMOVED AND RELOCATED AS SHOWN. DISCONNECT AND REMOVE. REINSTALL AT NEW LOCATION AND RECONNECT ITEM AS REQUIRED
- (R) — EXISTING EQUIPMENT TO BE REMOVED AND REPLACED WITH NEW.

GENERAL ABBREVIATIONS

A	AMPERES
ACLG	ABOVE CEILING
ADA	AMERICANS WITH DISABILITIES ACT
AFF	ABOVE FINISH FLOOR
AFG	ABOVE FINISH GRADE
AHJ	AUTHORITY HAVING JURISDICTION
AIC	AMPERE INTERRUPTING CAPACITY
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
ATS	AUTOMATIC TRANSFER SWITCH
BFG	BELOW FINISH GRADE
BLDG	BUILDING
BMS	BUILDING MANAGEMENT SYSTEM (BY M.C.)
C	CONDUIT
CB	CIRCUIT BREAKER
CBE	CALL BOX ENCLOSURE
CBM	CERTIFIED BALLAST MANUFACTURERS
CLF	CURRENT LIMITING FUSE
CU	COPPER
DWG	DRAWING
EC	ELECTRICAL CONTRACTOR
EM	EMERGENCY
EMT	ELECTRICAL METALLIC TUBING
ERGB	ELECTRICAL ROOM GROUND BAR
EWC	ELECTRIC WATER COOLER
F	FUSE
FA	FIRE ALARM
FDP	FIBER DISTRIBUTION PANEL
FLA	FULL LOAD AMPERES
FP	FLAT PANEL
FT	FEET
GFCI	GROUND-FAULT CIRCUIT INTERRUPTER
GFI	GROUND-FAULT INTERRUPTER
GND,G	GROUND OR GROUNDING
HOA	HAND, OFF, AUTOMATIC SWITCH
IDF	INTERMEDIATE DISTRIBUTION FRAME (DATA RACK)
IEEE	INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS
IP	INTERNET PROTOCOL
KCMIL	THOUSAND CIRCULAR MILS
KVA	KILOVOLT AMPERES
KW	KILOWATTS
LTG	LIGHTING
LPM	LIGHTNING PROTECTION MODULE
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MCP	MOTOR CIRCUIT PROTECTOR
MDF	MAIN DISTRIBUTION FRAME (DATA RACK)
MISC	MISCELLANEOUS
MLO	MAIN LUGS ONLY
MMF	MULTI MODE FIBER
MTGB	MAIN TELECOMMUNICATIONS GROUND BAR
NC	NORMALLY CLOSED
NEC	NATIONAL ELECTRIC CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURES ASSOCIATION
NF	NON FUSED
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN OR NUMBER
NTS	NOT TO SCALE
P	POLE
PE	PROTECTIVE ENCLOSURE
PH	PHASE
PNL	PANEL
PVC	POLYVINYL CHLORIDE
PWR	POWER
PS	POWER SUPPLY
QTY	QUANTITY
RGS	RIGID GALVANIZED STEEL
SB	SMART BOARD
SMF	SINGLE MODE FIBER
SP	SPARE
SS	SAFETY SWITCH
ST	SHUNT TRIP
SW	SWITCH
SYM	SYMMETRICAL
TEL	TELEPHONE
TGB	TELECOMMUNICATIONS GROUND BAR
TIDF	TELECOMMUNICATIONS INTERMEDIATE DISTRIBUTION FRAME
TMDF	TELECOMMUNICATIONS MAIN DISTRIBUTION FRAME
TSR	TELECOM SERVICE ROOM
TYP	TYPICAL
UG	UNDERGROUND OR UNDERGRADE
UL	UNDERWRITERS LABORATORIES
UON, UNO	UNLESS OTHERWISE NOTED, UNLESS NOTED OTHERWISE
V	VOLT
VIF	VERIFY IN FIELD
VP	VANDAL PROOF
W	WIRE
WG	WIRE GUARD
WM	WIREMOLD
WP	WEATHER PROOF
XFMR	TRANSFORMER
XP	EXPLOSION PROOF
△	DELTA
⏦	WYE
⌀	PHASE

GENERAL DEMOLITION NOTES

A. WHEN EXISTING CONSTRUCTION, WHICH IS TO REMAIN, IS DAMAGED DURING THE COURSE OF REMOVAL AS A RESULT OF THE CONTRACTOR'S WORK, IT SHALL BE REPAIRED AND/OR REPLACED WITH SIMILAR OR LIKE MATERIALS, AS MUCH AS POSSIBLE, SUBJECT TO THE OWNERS APPROVAL. THE CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL AND REPLACEMENT OF EXISTING CONSTRUCTION IN THE WAY OF DIVISION 26, 27 & 28 NEW WORK. PROTECT BUILDING AND FURNISHINGS FROM DAMAGE.

B. COORDINATE PHASING OF WORK WITH OWNER'S AUTHORIZED REPRESENTATIVE. IT IS THE REQUIREMENT OF THE PROJECT THAT THE CONSTRUCTION WORK BE PHASED TO FACILITATE MINIMUM IMPACT TO THE NORMAL OPERATION OF THE FACILITY. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO THOROUGHLY REVIEW THE GENERAL CONDITIONS AND THE BID DOCUMENTS FOR THE PHASING REQUIREMENTS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE FOR ALL TEMPORARY SERVICES TO FACILITATE PHASING REQUIREMENTS WITHOUT INTERRUPTION OF THE COMMUNICATION AND SECURITY SYSTEMS.

C. EXISTING CONDITIONS ARE TAKEN FROM FIELD OBSERVATIONS AND PRIOR CONSTRUCTION DOCUMENTS WHEN AVAILABLE AND ARE NOT GUARANTEED. PRIOR TO SUBMITTING BID, CONTRACTOR IS TO VISIT SITE AND IDENTIFY EXISTING CONDITIONS AND DIFFICULTIES THAT WILL AFFECT THE REMOVAL WORK. NO COMPENSATION WILL BE GRANTED FOR ADDITIONAL WORK CAUSED BY UNFAMILIARITY WITH SITE CONDITIONS THAT ARE VISIBLE OR READILY CONSTRUED BY EXPERIENCED OBSERVERS. THIS CONTRACTOR SHALL PARTICIPATE IN SURVEY OF THE EXISTING COMMUNICATION AND SECURITY SYSTEMS. THE CONTRACTOR SHALL DISCONNECT AND CAP ALL SERVICE LINES TO BE DISCONNECTED FOR THOSE SERVICES WHICH NORMALLY ARE INCLUDED IN THIS FIELD OF WORK. PARTICULAR CARE SHALL BE TAKEN TO AVOID CREATING HAZARD OR CAUSING DISRUPTION IN ADJOINING AREAS. NOT ALL DEVICES TERMINATIONS, JUNCTION BOXES AND WIRING HAVE BEEN SHOWN FOR DRAWING CLARITY.

D. REFER TO ALL OTHER TRADES CONTRACT DRAWINGS AND SPECIFICATIONS FOR EXACT QUANTITIES AND LOCATIONS OF ALL EQUIPMENT BEING ABANDONED OR REMOVED, WHICH WILL REQUIRE DE-ENERGIZING OF EQUIPMENT, REMOVAL AND BLANK-OFF BY THE DIVISION 26 CONTRACTOR.

E. DISCONNECT AND REMOVE EXISTING COMMUNICATION AND SECURITY EQUIPMENT AND ASSOCIATED CONTROLS, BOXES, CONDUIT, WIRE, ETC. WHERE INDICATED OR WHERE LOCATED ON OR WITHIN WALLS, CEILINGS OR FLOORS TO BE REMOVED, UNLESS OTHERWISE INDICATED. REMOVE CIRCUITS BACK TO THEIR ORIGIN UNLESS OTHERWISE REQUIRED FOR EXISTING EQUIPMENT TO REMAIN. OPERATION AND CIRCUITING OF EQUIPMENT TO REMAIN SHALL NOT BE ALTERED DUE TO THE REMOVALS.

F. MAINTAIN AND RESTORE, IF INTERRUPTED BY REMOVALS OR IN PATH OF NEW CONSTRUCTION, ALL CIRCUITS, CONDUITS AND FEEDERS PASSING THROUGH AND SERVING UNDISTURBED AREAS (SHOWN OR NOT SHOWN).

G. ALL EXISTING CONDUITS STUBBED THROUGH FLOOR SERVING ITEMS TO BE REMOVED AND NOT SHOWN OR REQUIRED TO BE REUSED, SHALL BE CUT OFF FLUSH WITH SLAB, LEVEL WITH CONCRETE.

H. IN ANY AREA REQUIRING THE PERFORMANCE OF ANY TRADE'S WORK, DIVISION 26, 27 & 28 CONTRACTOR SHALL CAREFULLY REMOVE AND STORE ANY OR ALL COMMUNICATION AND SECURITY ITEMS IN PATH OF WORK, REINSTALLING AND RECONNECTING SAME AS REQUIRED, IN ACCORDANCE WITH THE PLANS AND/OR AS DIRECTED AFTER COMPLETION OF OTHER TRADE'S WORK IN THAT AREA.

I. INVENTORY MAJOR COMMUNICATION AND SECURITY ITEMS THAT ARE REMOVED AND PROVIDE A LIST TO THE OWNER FOR THEIR SELECTION OF ITEMS TO BE RETAINED. ALL ITEMS REJECTED BY THE OWNER SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE SITE. ALL EQUIPMENT INDICATED TO BE TURNED OVER TO THE OWNER SHALL BE DISCONNECTED AND REMOVED FROM THE EXISTING SYSTEMS IN GOOD WORKING CONDITION AND DELIVERED (INCLUDING LOADING AND UNLOADING) TO A STORAGE AREA WITHIN THE BUILDING AS SELECTED BY THE OWNER. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REPAIR ANY EQUIPMENT DAMAGED DURING REMOVAL AND DELIVERY FOR STORAGE. ANY DAMAGE TO EQUIPMENT PRIOR TO DISCONNECTING SHOULD BE REPORTED TO THE OWNER'S REPRESENTATIVE. IF NOT REPORTED, THE CONTRACTOR TAKES FULL RESPONSIBILITY FOR REPAIRS TO THE EQUIPMENT.

J. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REMOVE AND REPLACE EXISTING CEILINGS, UNLESS OTHERWISE NOTED ON THE DRAWINGS, FOR PERFORMING REMOVAL OR NEW WORK WITHIN THE BUILDING. THE EXISTING CEILINGS SHALL BE REMOVED IN A MANNER TO AVOID DAMAGE TO THE CEILING SYSTEMS. STORAGE OF CEILING SYSTEM COMPONENTS FOR REINSTALLATION IS THE RESPONSIBILITY OF THE CONTRACTOR. THE STORAGE OF ALL MATERIAL SHALL BE IN AREAS OR LOCATIONS APPROVED BY THE OWNER. THE STORAGE OF ALL MATERIAL IS THE RESPONSIBILITY OF THE CONTRACTOR. AFTER COMPLETION OF ALL REMOVAL OR NEW WORK, THE CONTRACTOR SHALL REINSTALL THE CEILING SYSTEMS TO MATCH THE ORIGINAL INSTALLATIONS. ANY CEILING SYSTEM COMPONENT DAMAGED DURING REMOVAL, STORAGE OR REINSTALLATION SHALL BE REPLACED WITH NEW AT NO EXPENSE TO THE OWNER.

K. UNLESS SHOWN ON THE DRAWINGS, IT IS THE RESPONSIBILITY OF THIS CONTRACT TO PATCH AND FINISH ALL EXISTING CONDUIT PENETRATIONS THROUGH FLOORS AND WALLS AFTER REMOVAL.

L. EXISTING COMMUNICATION AND SECURITY EQUIPMENT, ACCESSORIES, WIRING OR CONDUIT THAT WILL NOT BE UTILIZED FOR THE INSTALLATION OR OPERATION OF THE NEW COMMUNICATION AND SECURITY SYSTEM SHALL BE DISCONNECTED AND REMOVED. NO EQUIPMENT, ACCESSORIES, WIRING OR CONDUIT SHALL BE ABANDONED IN PLACE. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REVIEW, TEST AND DOCUMENT THE OPERATION OF EXISTING COMMUNICATION AND SECURITY AND SPECIAL SYSTEMS SERVING RENOVATED AREAS AND SYSTEMS THAT MIGHT EXTEND OUTSIDE OF THE RENOVATED AREA TO PREVENT THE POSSIBILITY OF DAMAGE OR INTERRUPTION OF EXISTING SYSTEMS WHILE PERFORMING REMOVAL WORK. ALL COMMUNICATION AND SECURITY SYSTEMS SHALL BE FULLY INVESTIGATED BEFORE DISCONNECTING OF SYSTEMS TO AVOID INTERRUPTING AREAS OR SYSTEMS OUTSIDE THE INTENDED SCOPE. THE CONTRACTOR SHALL REVIEW ALL SHUT DOWNS AND REMOVAL REQUIREMENTS WITH THE OWNER. AFTER RENOVATING EXISTING ELECTRICAL WORK, THE CONTRACTOR SHALL ENSURE THAT ALL REMAINING AND NEW EQUIPMENT WILL OPERATE PROPERLY.

M. ALL COMMUNICATION AND SECURITY WORK INDICATED TO REMAIN SHALL BE SUITABLY PROTECTED TO PREVENT ANY DAMAGE.

GENERAL NOTES (APPLY TO ALL DRAWINGS)

A. SLEEVE AND SEAL ALL WALL AND FLOOR PENETRATIONS. PROVIDE FIRE STOPPING FOR ALL FIRE-RATED PENETRATIONS. UTILIZE REMOVABLE FIRESTOPPING MATERIAL AT CABLE TRAY PENETRATIONS. PROVIDE ACOUSTICAL SEALANT FOR ALL NON RATED PENETRATIONS. ALL FIRE RATINGS SHALL BE MAINTAINED.

B. MAINTAIN SERVICE CLEARANCES OF ALL EQUIPMENT.

C. COORDINATE EXACT LOCATION OF ALL CONDUIT ROUTES, EQUIPMENT AND DEVICES WITH EXISTING CONDITIONS PRIOR TO CONSTRUCTION.

D. MINIMUM CONDUIT SIZE SHALL BE 1" FOR TELECOMMUNICATIONS AND 1/2" FOR ALL OTHER CIRCUITS. PROVIDE NYLON PULL STRING IN ALL EMPTY CONDUITS.

E. PROVIDE CONDUIT/WIRING (CIRCUITING) AND REQUIRED EQUIPMENT CONNECTIONS TO ALL DEVICES/EQUIPMENT. PROVIDE AS PART OF THIS PROJECT. CONNECT TO CIRCUIT(S) AS INDICATED.

F. PROVIDE MATCHING BRANCH CIRCUITING AND FEEDERS TO RELOCATE EQUIPMENT, DEVICES, ETC., AND MAINTAIN FEED-THROUGH WIRING AND SYSTEMS TO REMAIN. PROVIDE CUTTING, PATCHING AND PAINTING TO MATCH SURROUNDING SURFACE UNLESS NOTED OTHERWISE.

G. PROVIDE INDIVIDUAL PUBLIC ADDRESS BRANCH CIRCUITING FROM EACH ROOM SPEAKER, AND ZONAL PUBLIC ADDRESS BRANCH CIRCUITING FROM EACH CORRIDOR/EXTERIOR SPEAKER TO INTERCOM & PAGING SYSTEM RACK. PROVIDE HARDWARE, PUNCH DOWN BLOCKS AND TESTING.

H. PROVIDE INDIVIDUAL TELEPHONE / DATA RACEWAY FROM EACH TELEPHONE / DATA OUTLET TO ACCESSIBLE CEILING; FIRE STOPPED AT RATED PENETRATIONS.

I. ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF NFPA CODES, FIRE CODE OF NEW YORK STATE, BUILDING CODE OF NEW YORK STATE AND NEW YORK STATE EDUCATION DEPARTMENT DESIGN STANDARDS AND AS REQUIRED BY ANY OTHER CODES, REGULATIONS AND LAWS OF LOCAL, STATE AND FEDERAL GOVERNMENTS AND OTHER AUTHORITIES WITH LAWFUL JURISDICTION, APPROVED FOR INTENDED SERVICE. ALL MATERIAL AND EQUIPMENT SHALL BE UL, NEMA, ANSI, IEEE, ADA & CBM.

J. INSTALL EQUIPMENT IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND CONDITIONS FOR WARRANTY AND GUARANTEE. PROVIDE ALL ACCESSORIES REQUIRED FOR A COMPLETE AND SATISFACTORY INSTALLATION READY FOR CONTINUOUS USE.

K. EQUIPMENT OR MATERIALS SHALL BE NEW AND FOR ANY GIVEN SYSTEM BE A PRODUCT OF THE SAME MANUFACTURER, UNLESS NOTED OTHERWISE.

L. EXISTING SYSTEMS FEEDERS AND BRANCH CIRCUITS WHICH PASS THROUGH ALTERED AREAS AND SERVE OTHER AREAS SHALL BE MAINTAINED AS REQUIRED AND AS DIRECTED BY THE OWNER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND AVOIDING THESE FEEDERS AND BRANCH CIRCUITS. IF DISTURBED, THEY SHALL BE REPAIRED AND BROUGHT BACK ON-LINE AS SOON AS POSSIBLE AND AT THE CONTRACTORS EXPENSE.

M. COORDINATE ARRANGEMENT, MOUNTING AND SUPPORT OF ELECTRICAL CONDUIT TO ALLOW MAXIMUM POSSIBLE HEADROOM IN THE CEILING CAVITIES.

N. CUT AND PATCH BUILDING CONSTRUCTION AS REQUIRED. PROVIDE U.L. LISTED FIRE STOP METHODS FOR PENETRATIONS OF FIRE-RATED BUILDING COMPONENTS OR BARRIERS PER CONTRACT SPECIFICATIONS. WATERPROOF ALL EXTERIOR OUTDOOR PENETRATIONS. THIS WORK SHALL BE SUBJECT TO INSPECTION AND APPROVAL. OBTAIN WRITTEN AUTHORIZATION FROM PROJECTS' STRUCTURAL ENGINEER PRIOR TO PENETRATING OR CUTTING ANY STRUCTURAL COMPONENTS. EXCEPT AS NOTED IN SPECIFICATIONS, ALL CUTTING AND PATCHING OF BUILDING CONSTRUCTION REQUIRED TO ACCOMMODATE THE WORK OF THIS CONTRACT SHALL BE THE RESPONSIBILITY OF THE DIVISION 26, 27 & 28 CONTRACTOR.

O. DIVISION 26, 27 & 28 CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS PRIOR TO COMMENCEMENT OF ANY WORK OR SHOP FABRICATION. REQUIRED CHANGES TO WORK SHOWN ON CONSTRUCTION DRAWINGS SHALL BE APPROVED BY THE ENGINEER IN WRITING, OTHER TRADES AND OWNER AS REQUIRED PRIOR TO ANY CONSTRUCTION.

P. COORDINATE THE WORK OF THIS CONTRACT WITH THE WORK OF OTHER CONTRACTS. COORDINATE WITH THE GENERAL CONTRACTOR FOR ALL ROOF PENETRATIONS, SOFFITS, CHASES, AND PADS. COORDINATE WITH MECHANICAL AND PLUMBING CONTRACTORS, SPECIFICATIONS, AND SCHEDULES ON DRAWINGS FOR DETERMINATION OF RESPONSIBILITY TO FURNISH AND INSTALL ELECTRICAL COMPONENTS OF MECHANICAL EQUIPMENT. COORDINATE SHUTDOWN OF EXISTING SYSTEMS WITH OWNER AND OTHER TRADES.

Q. DIVISION 26, 27 & 28 CONTRACTOR SHALL PROVIDE NECESSARY SUPPORT FRAMING, STIFFENERS, BRACING, AND HANGERS WHETHER SHOWN OR NOT TO ENSURE A COMPLETE AND DURABLE SYSTEM. SUPPORT FRAMING CONNECTIONS SHALL BE WELDED UNLESS SPECIFICALLY SHOWN OTHERWISE. ACTUAL SUPPORTS MAY VARY FROM THOSE SHOWN IN DETAILS AND AS REQUIRED FOR EQUIPMENT TO BE FURNISHED OR FOR EXISTING FIELD CONDITIONS.

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NY ENGINEERING FIRM CERTIFICATE #0021419

ECC Technologies

PROJECT INFORMATION

Project Number
R22.14457.20

Client Name
SOUTH ORANGETOWN CENTRAL SCHOOL DISTRICT

Project Name
PHASE 2: 2022 BOND

TAPPAN ZEE HIGH SCHOOL

Building Address
15 DUTCH HILL ROAD, ORANGEBURG, NY 10962

SED # 50-03-01-06-0-006-033

Registration Expiration Dates
Lauren Tanso 09/30/26
Anthony Marchetti 05/31/27
Dave Hart 02/28/25
Jennifer Wengender 06/30/27

PROJECT ISSUE & REVISION SCHEDULE

#	Date	Description

PROFESSIONAL STAMPS

NEW YORK STATE EDUCATION STATEMENT

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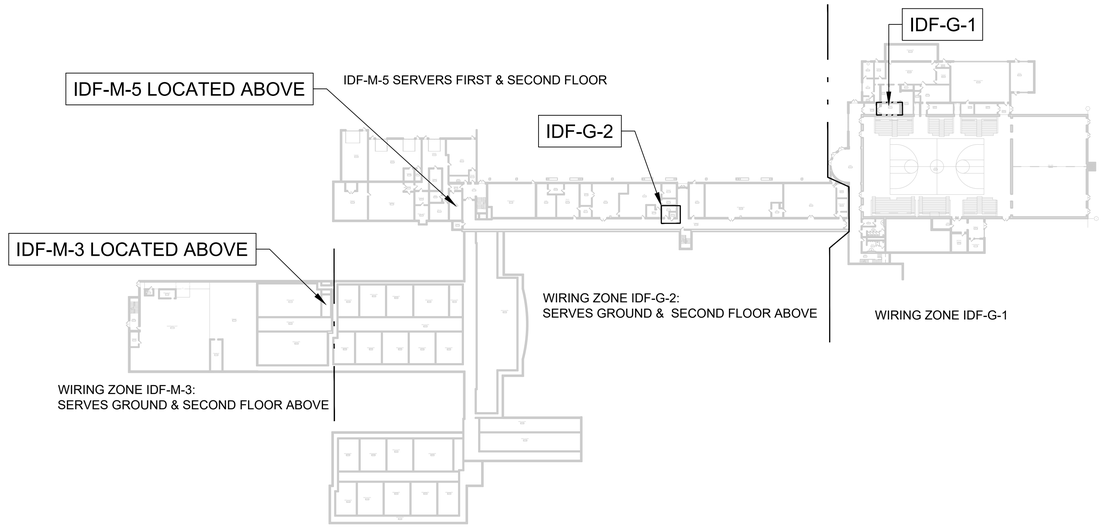
SHEET INFORMATION

Issued	Scale
10/25/24	AS INDICATED
Project Status	
BID DOCUMENTS	
Drawn By	Checked By
AH	BH

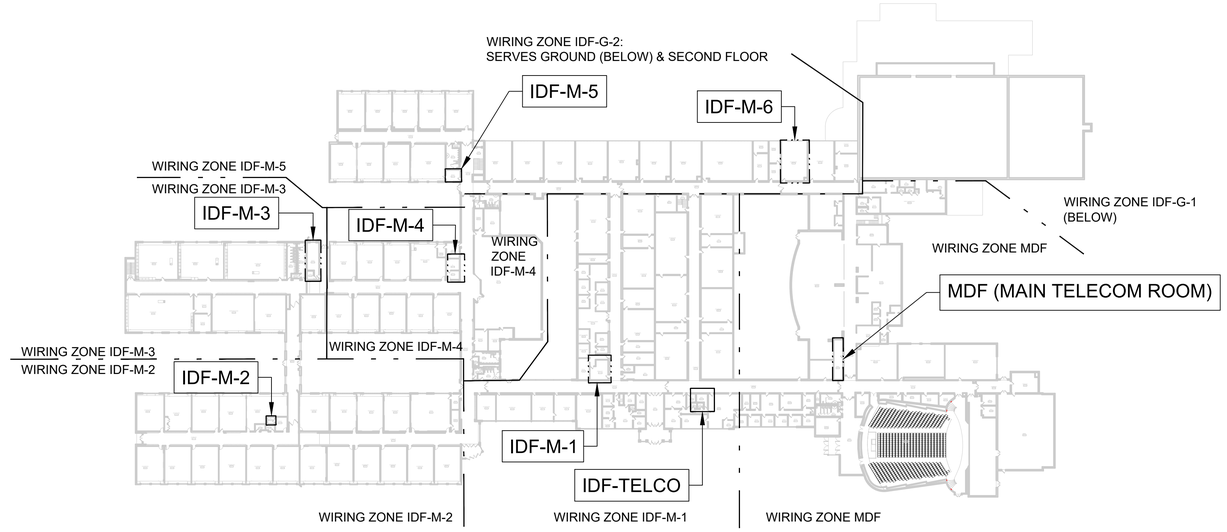
Drawing Title
SYMBOLS AND ABBREVIATIONS

Drawing Number
TZHS T000



1 T001 GROUND FLOOR KEY PLAN

SCALE: 1/64" = 1'-0"



2 T001 MAIN FLOOR KEY PLAN

SCALE: 1/64" = 1'-0"

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NY ENGINEERING FIRM CERTIFICATE #0021419

ECC Technologies

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BID DOCUMENTS

Drawn By
AH

Checked By
BH

Drawing Title
KEY PLAN

Drawing Number
TZHS
T001

GENERAL NOTES

A. THE DISTRICT WILL REMOVE TELEPHONES AND RE-INSTALL IN RENOVATED SPACES.

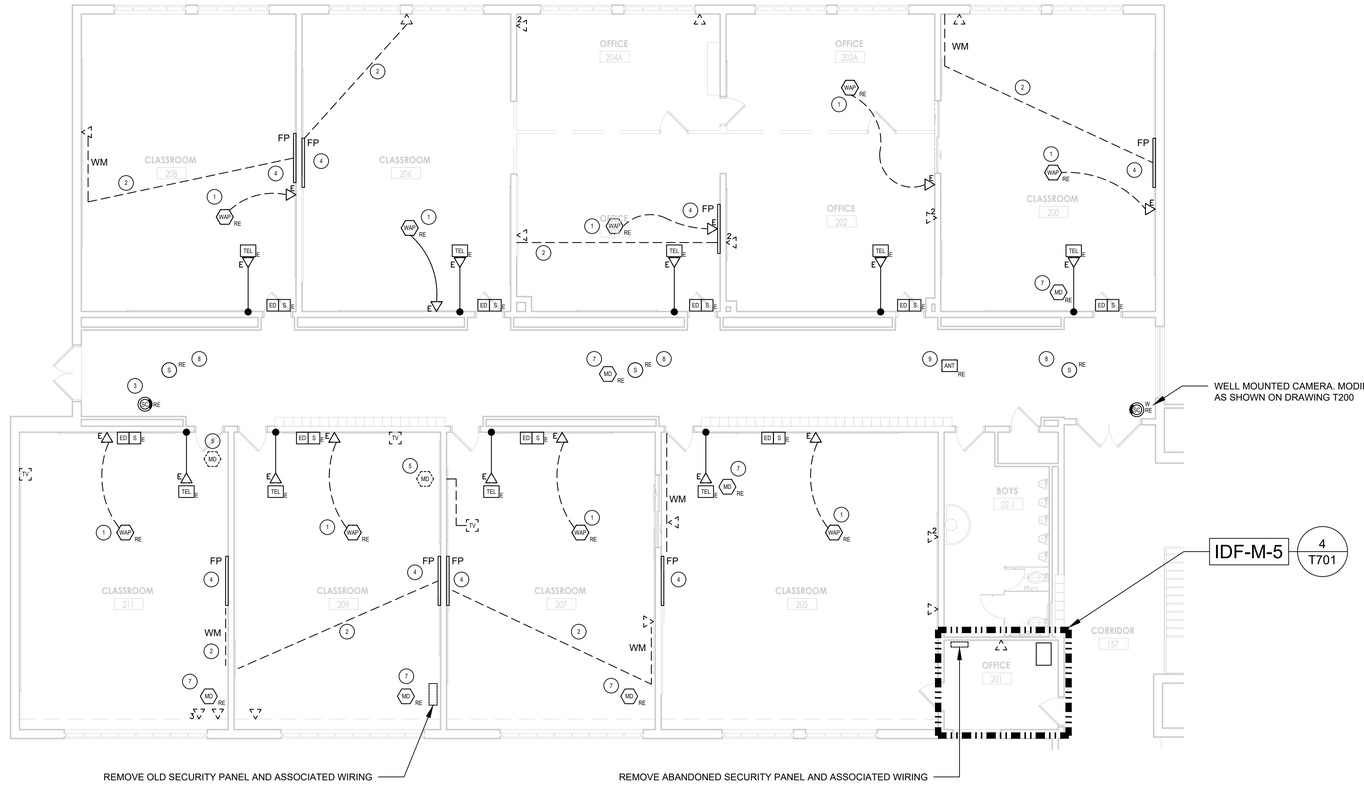
B. THE DISTRICT WILL REMOVE FLAT PANELS AND SMART BOARDS AND REINSTALL IN ALL RENOVATED SPACES.

C. ALL SPEAKER / ELECTRONIC DISPLAY CABINETS SHALL REMAIN IN PLACE UNLESS OTHERWISE NOTED. GENERAL CONTRACTOR WILL PROTECT DEVICES WHEN RE-PAINTING RENOVATED SPACES.

DRAWING NOTES

1. EXISTING CEILING WITHIN SPACE TO BE REMOVED. DISCONNECT, REMOVE AND STORE WIRELESS ACCESS POINT AND REINSTALL AS ON MAIN T-BAR WITH WAP MOUNTING BRACKET AS SHOWN ON NEW WORK DRAWINGS. COORDINATE MAC ADDRESS WITH DISTRICT IT DEPARTMENT. REUSE ALL EXISTING PATCH CABLES.
2. ALL CONTROL CABLING BETWEEN TEACHERS STATION, PROJECTORS AND FLAT PANELS TO BE REMOVED.
3. EXISTING CEILING WITHIN SPACE TO BE REMOVED. DISCONNECT, REMOVE AND STORE IP CAMERA AND REINSTALL AS SHOWN ON CAMERA MOUNTING DETAIL FOR LAY IN CEILINGS. COORDINATE MAC ADDRESS WITH DISTRICT IT DEPARTMENT. REUSE ALL EXISTING PATCH CABLES.
4. DISTRICT TO REMOVE EXISTING FLAT PANEL AND ASSOCIATED MOUNTING BRACKET.
5. REMOVE MOTION DETECTOR AND PULL WIRING BACK ABOVE CEILING FOR FUTURE USE. TAG WIRE AS INTRUSION DETECTION
6. EXISTING WALL MOUNTED MOTION DETECTOR SHALL REMAIN.
7. REMOVE EXISTING MOTION DETECTOR AND REINSTALL IN SIMILAR LOCATION ONCE NEW CEILING IS INSTALLED.
8. CORRIDOR CEILING TO BE REMOVED AND RE-INSTALLED. REMOVE CAMERAS AND SPEAKERS AND RE-INSTALL IN NEW CEILINGS. TAG ALL CABLES FOR RE-USE.
9. ROCKLAND COUNTY EMERGENCY MANAGEMENT DAS ANTENNA. REMOVE AND REINSTALL ANTENNA ON NEW CEILING. PROTECT ALL CABLES AND HARDWARE SUPPORTING THIS SYSTEM. COORDINATE WITH ROCKLAND COUNTY EMS.

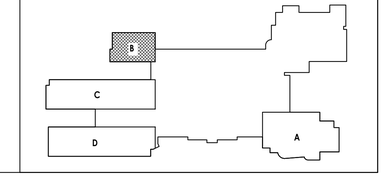
ALL DATA CABLES IN THIS AREA ARE
IN WIRING ZONE IDF-M-5



1 / T100 FIRST FLOOR DEMOLITION PLAN - AREA B

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

KEY PLAN:



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SHEET INFORMATION

Issued	Scale
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Project Status
BID DOCUMENTS

Drawn By	Checked By
AH	BH

Drawing Title
FIRST FLOOR DEMOLITION PLAN AREA B

Drawing Number
TZHS T100

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4 / T700 — IDF-M-3

IDF-M-4 — 1 / T701

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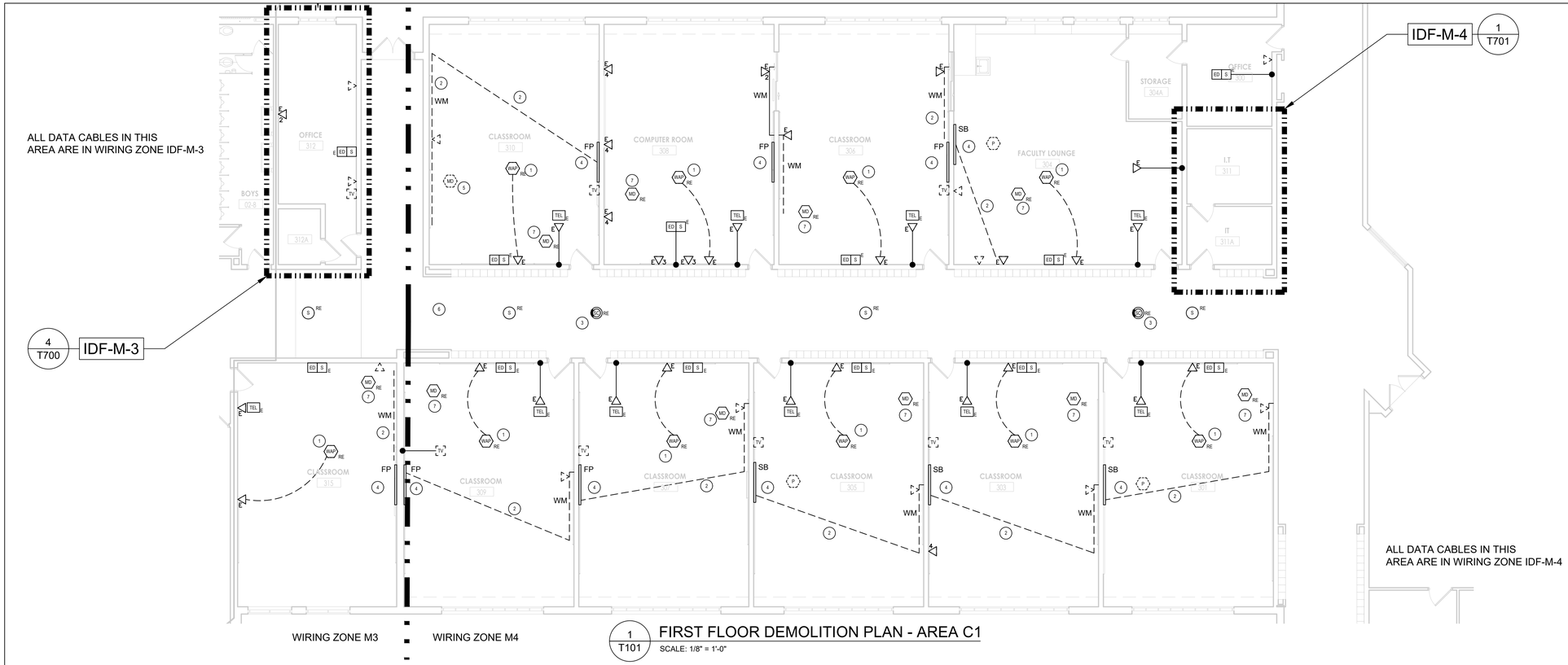
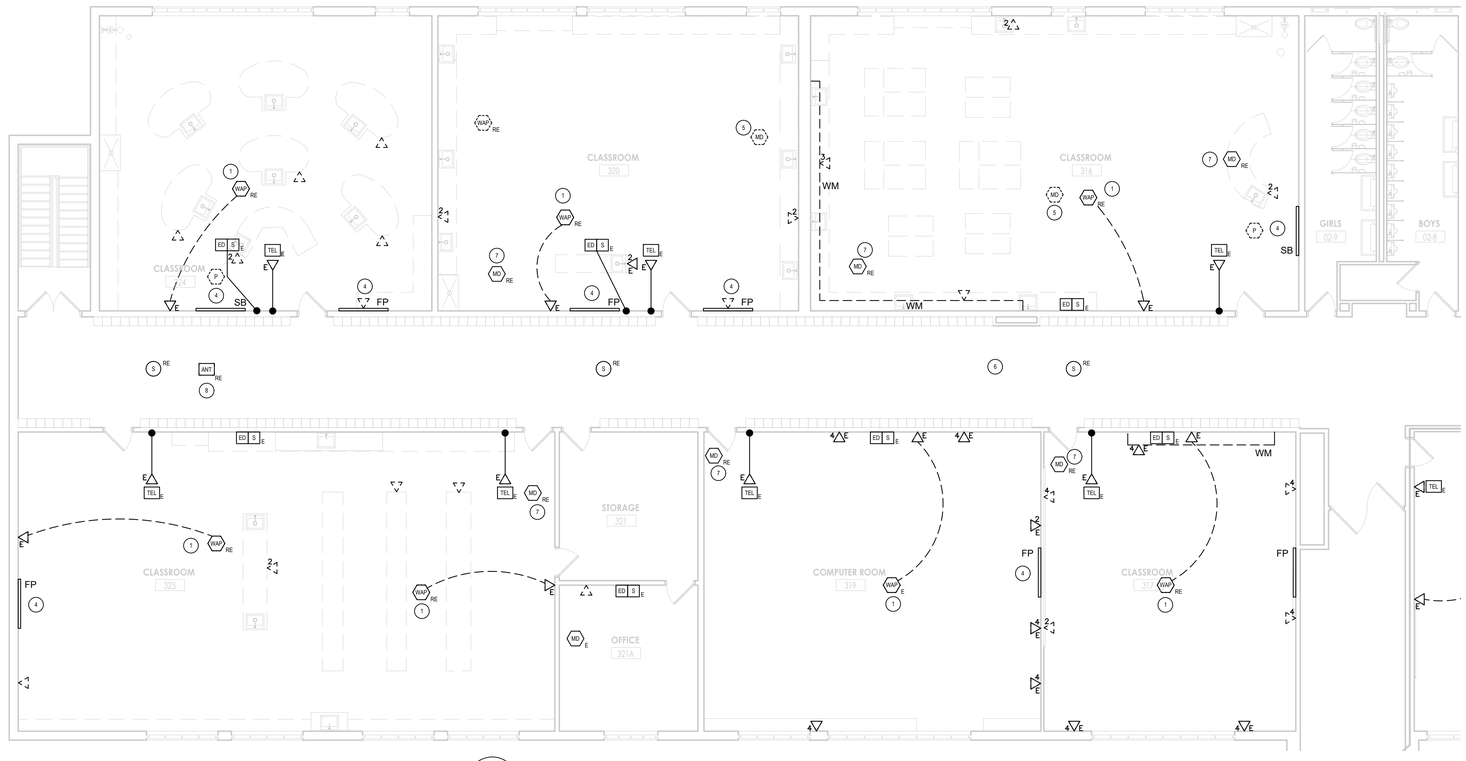


1 / T101 — FIRST FLOOR DEMOLITION PLAN - AREA C1
SCALE: 1/8" = 1'-0"



ALL DATA CABLES IN THIS
AREA ARE IN WIRING ZONE IDF-M-3

2 / T101 — FIRST FLOOR DEMOLITION PLAN - AREA C2
SCALE: 1/8" = 1'-0"

GENERAL NOTES

A. THE DISTRICT WILL REMOVE TELEPHONES AND RE-INSTALL IN RENOVATED SPACES.

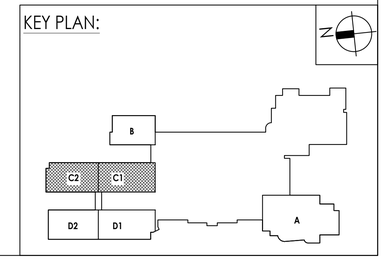
B. THE DISTRICT WILL REMOVE FLAT PANELS AND SMART BOARDS AND REINSTALL IN ALL RENOVATED SPACES.

C. ALL SPEAKER / ELECTRONIC DISPLAY CABINETS SHALL REMAIN IN PLACE UNLESS OTHERWISE NOTED. GENERAL CONTRACTOR WILL PROTECT DEVICES WHEN RE-PAINTING RENOVATED SPACES.

DRAWING NOTES

1. EXISTING CEILING WITHIN SPACE TO BE REMOVED. DISCONNECT, REMOVE AND STORE WIRELESS ACCESS POINT AND REINSTALL AS ON MAIN T-BAR WITH WAP MOUNTING BRACKET AS SHOWN ON NEW WORK DRAWINGS. COORDINATE MAC ADDRESS WITH DISTRICT IT DEPARTMENT. REUSE ALL EXISTING PATCH CABLES.
2. ALL CONTROL CABLING BETWEEN TEACHERS STATION, PROJECTORS AND FLAT PANELS TO BE REMOVED.
3. EXISTING CEILING WITHIN SPACE TO BE REMOVED. DISCONNECT, REMOVE AND STORE IP CAMERA AND REINSTALL AS SHOWN ON CAMERA MOUNTING DETAIL FOR LAY IN CEILINGS. COORDINATE MAC ADDRESS WITH DISTRICT IT DEPARTMENT. REUSE ALL EXISTING PATCH CABLES.
4. DISTRICT TO REMOVE EXISTING FLAT PANEL AND ASSOCIATED MOUNTING BRACKET.
5. REMOVE MOTION DETECTOR AND PULL WIRING BACK ABOVE CEILING FOR FUTURE USE. TAG WIRE AS INTRUSION DETECTION
6. CORRIDOR CEILING TO BE REMOVED AND RE-INSTALL. REMOVE CAMERAS AND SPEAKERS AND RE-INSTALL IN NEW CEILINGS. TAG ALL CABLES FOR RE-USE.
7. REMOVE EXISTING MOTION DETECTOR AND REINSTALL IN SIMILAR LOCATION ONCE NEW CEILING IS INSTALLED.
8. ROCKLAND COUNTY EMERGENCY MANAGEMENT DAS ANTENNA. REMOVE AND REINSTALL ANTENNA ON NEW CEILING. PROTECT ALL CABLES AND HARDWARE SUPPORTING THIS SYSTEM. COORDINATE WITH ROCKLAND COUNTY EMS.

KEY PLAN:



CPL | Architecture Engineering Planning
26 IBM Road
Poughkeepsie, NY 12601
CPLeam.com
NY ENGINEERING FIRM CERTIFICATE #0021419

ECC Technologies

PROJECT INFORMATION

Project Number
R22.14457.20

Client Name
SOUTH ORANGETOWN CENTRAL SCHOOL DISTRICT

Project Name
PHASE 2: 2022 BOND

TAPPAN ZEE HIGH SCHOOL

Building Address
15 DUTCH HILL ROAD, ORANGEBURG, NY 10962

SED # 50-03-01-06-0-006-033

Registration Expiration Dates
Lauren Torpo 09/30/26
Anthony Marchetti 05/31/27
Dave Hart 02/28/25
Jennifer Wengender 06/30/27

PROJECT ISSUE & REVISION SCHEDULE

#	Date	Description

PROFESSIONAL STAMPS

NEW YORK STATE EDUCATION STATEMENT

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SHEET INFORMATION

Issued
10/25/24

Scale
AS INDICATED

Project Status
BID DOCUMENTS

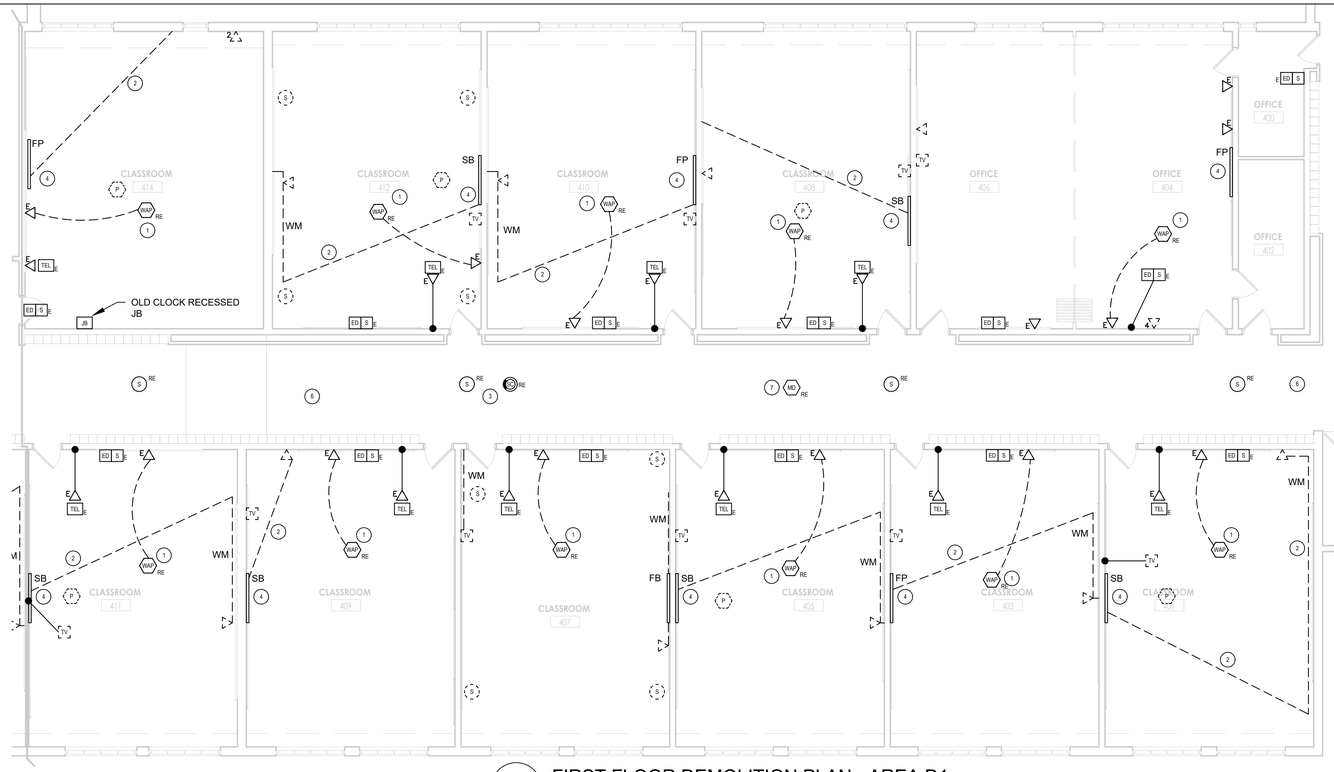
Drawn By
AH

Checked By
BH

Drawing Title
FIRST FLOOR DEMOLITION PLAN AREA C

Drawing Number
TZHS T101

10/14/2024 9:38:41 AM <project location>\REVIT PROJECT FILES ON BIM 360



ALL DATA CABLES IN THIS AREA ARE IN WIRING ZONE IDF-M-2

ALL DATA CABLES IN THIS AREA ARE IN WIRING ZONE IDF-M-1

1 T102 FIRST FLOOR DEMOLITION PLAN - AREA D1
SCALE: 1/8" = 1'-0"

ALL DATA CABLES IN THIS AREA ARE IN WIRING ZONE IDF-M-2

2 T102 FIRST FLOOR DEMOLITION PLAN - AREA D2
SCALE: 1/8" = 1'-0"

GENERAL NOTES

A. THE DISTRICT WILL REMOVE TELEPHONES AND RE-INSTALL IN RENOVATED SPACES.

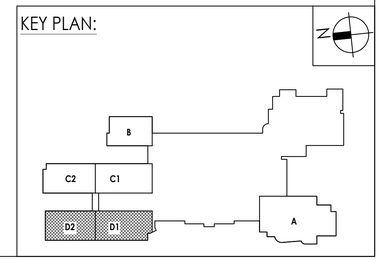
B. THE DISTRICT WILL REMOVE FLAT PANELS AND SMART BOARDS AND REINSTALL IN ALL RENOVATED SPACES

C. ALL SPEAKERS / ELECTRONIC DISPLAY CABINETS SHALL REMAIN IN PLACE UNLESS OTHERWISE NOTED. GENERAL CONTRACTOR WILL PROTECT DEVICES WHEN RE-PAINTING RENOVATED SPACES.

DRAWING NOTES

1. EXISTING CEILING WITHIN SPACE TO BE REMOVED. DISCONNECT, REMOVE AND STORE WIRELESS ACCESS POINT AND REINSTALL AS ON MAIN T-BAR WITH WAP MOUNTING BRACKET AS SHOWN ON NEW WORK DRAWINGS. COORDINATE MAC ADDRESS WITH DISTRICT IT DEPARTMENT. REUSE ALL EXISTING PATCH CABLES.
2. ALL CONTROL CABLING BETWEEN TEACHERS STATION, PROJECTORS AND FLAT PANELS TO BE REMOVED.
3. EXISTING CEILING WITHIN SPACE TO BE REMOVED. DISCONNECT, REMOVE AND STORE IP CAMERA AND REINSTALL AS SHOWN ON CAMERA MOUNTING DETAIL FOR LAY IN CEILINGS. COORDINATE MAC ADDRESS WITH DISTRICT IT DEPARTMENT. REUSE ALL EXISTING PATCH CABLES.
4. DISTRICT TO REMOVE EXISTING FLAT PANEL AND ASSOCIATED MOUNTING BRACKET.
5. REMOVE MOTION DETECTOR AND PULL WIRING BACK ABOVE CEILING FOR FUTURE USE. TAG WIRE AS INTRUSION DETECTION
6. CORRIDOR CEILING TO BE REMOVED AND RE-INSTALLED. REMOVE CAMERAS AND SPEAKERS AND RE-INSTALL IN NEW CEILINGS. TAG ALL CABLES FOR RE-USE
7. REMOVE EXISTING MOTION DETECTOR AND REINSTALL IN SIMILAR LOCATION ONCE NEW CEILING IS INSTALLED.

KEY PLAN:



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Poughkeepsie, NY 12601
CPLteam.com
NY ENGINEERING FIRM CERTIFICATE #0021419

ECC Technologies

PROJECT INFORMATION

Project Number
R22.14457.20

Client Name
SOUTH ORANGETOWN CENTRAL SCHOOL DISTRICT

Project Name
PHASE 2: 2022 BOND

TAPPAN ZEE HIGH SCHOOL

Building Address
15 DUTCH HILL ROAD, ORANGEBURG, NY 10962

SED # 50-03-01-06-0-006-033

Registration Expiration Dates
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Anthony Marchetti 05/31/27
Dave Hart 02/28/25
Jennifer Wengender 06/30/27

PROJECT ISSUE & REVISION SCHEDULE

#	Date	Description

PROFESSIONAL STAMPS

NEW YORK STATE EDUCATION STATEMENT

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SHEET INFORMATION

Issued	Scale
10/25/24	AS INDICATED
Project Status	
BID DOCUMENTS	
Drawn By	Checked By
AH	BH

Drawing Title
FIRST FLOOR DEMOLITION PLAN AREA D

Drawing Number
TZHS T102

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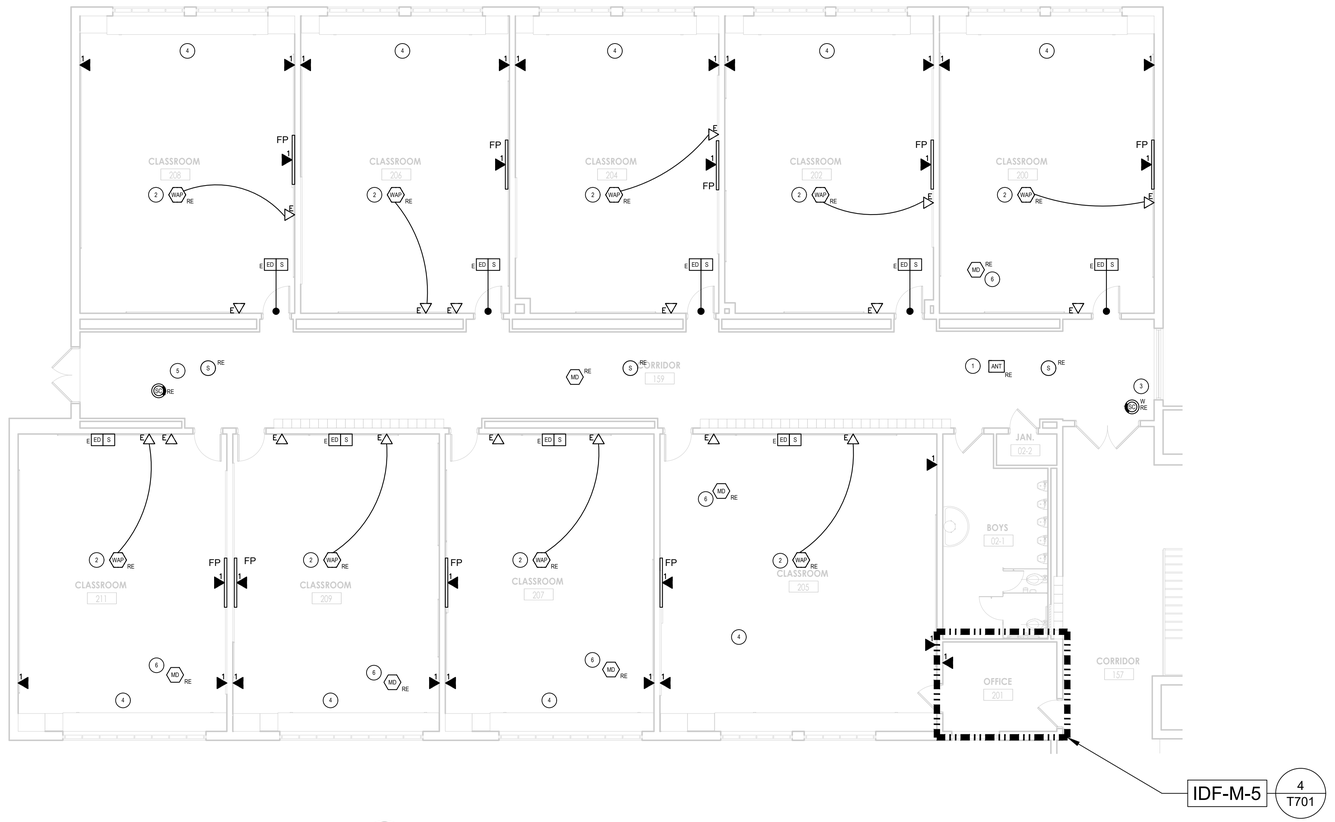


ALL DATA CABLES IN THIS
AREA ARE IN WIRING ZONE IDF-M-5

1 / T200 FIRST FLOOR NEW WORK PLAN - AREA B

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

GENERAL NOTES

A. THE DISTRICT WILL REMOVE TELEPHONES AND RE-INSTALL IN RENOVATED SPACES.

B. THE DISTRICT WILL REMOVE FLAT PANELS AND SMART BOARDS AND REINSTALL IN ALL RENOVATED SPACES.

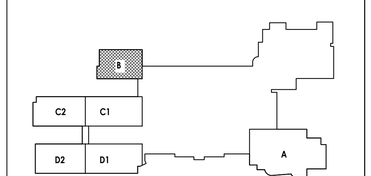
C. ALL SPEAKER / ELECTRONIC DISPLAY CABINETS SHALL REMAIN IN PLACE UNLESS OTHERWISE NOTED. GENERAL CONTRACTOR WILL PROTECT DEVICES WHEN RE-PAINTING RENOVATED SPACES.

D. REFER TO DETAIL 1/T702 FOR CLASSROOM WIRING FOR FLAT PANELS AND DATA JACKS. TYPICAL ALL CLASSROOMS UNLESS OTHERWISE NOTED.

DRAWING NOTES

1. ROCKLAND COUNTY 911 EMS ANTENNA SYSTEM. MAINTAIN SYSTEM INTEGRITY THROUGHOUT CONSTRUCTION PROJECT.
2. INSTALL RELOCATED WAP ON NEW CEILING. ATTACH T-BAR MOUNTING BRACKET TO MAIN CEILING T. PROVIDE A 20 FT, CAT 6 PATCH CABLE TO CONNECT TO EXISTING CAT 6 JACK THAT PREVIOUSLY SERVED WAP
3. WALL MOUNTED CAMERA, REVISE WIRING AND WIREMOLD AS REQUIRED FOR REMOVAL AND RE-INSTALLATION OF LAY-IN CEILING.
4. INSTALL NEW DATA CABLES WITH ASSOCIATED HDMI AND USB CABLES FOR FLAT PANEL AT TEACHER'S STATIONS AS SHOWN ON DETAIL 1/T702.
5. RE-INSTALL EXISTING CAMERA ON NEW CEILING. CONNECT TO EXISTING NETWORK JACK ABOVE CEILING WITH NEW CAT 6 PATCH CABLE.
6. INSTALL MOTION DETECTOR ON NEW CEILING. EXTEND EXISTING INTRUSION SYSTEM WIRING AS REQUIRED.

KEY PLAN:



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ECC Technologies

PROJECT INFORMATION

Project Number
R22.14457.20

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SOUTH ORANGETOWN CENTRAL SCHOOL DISTRICT

Project Name
PHASE 2: 2022 BOND

TAPPAN ZEE HIGH SCHOOL

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SED # 50-03-01-06-0-006-033

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#	Date	Description

PROFESSIONAL STAMPS

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SHEET INFORMATION

Issued	Scale
10/25/24	AS INDICATED
Project Status: BID DOCUMENTS	
Drawn By: AH	Checked By: BH

Drawing Title
FIRST FLOOR NEW WORK PLAN - AREA B

Drawing Number
TZHS
T200

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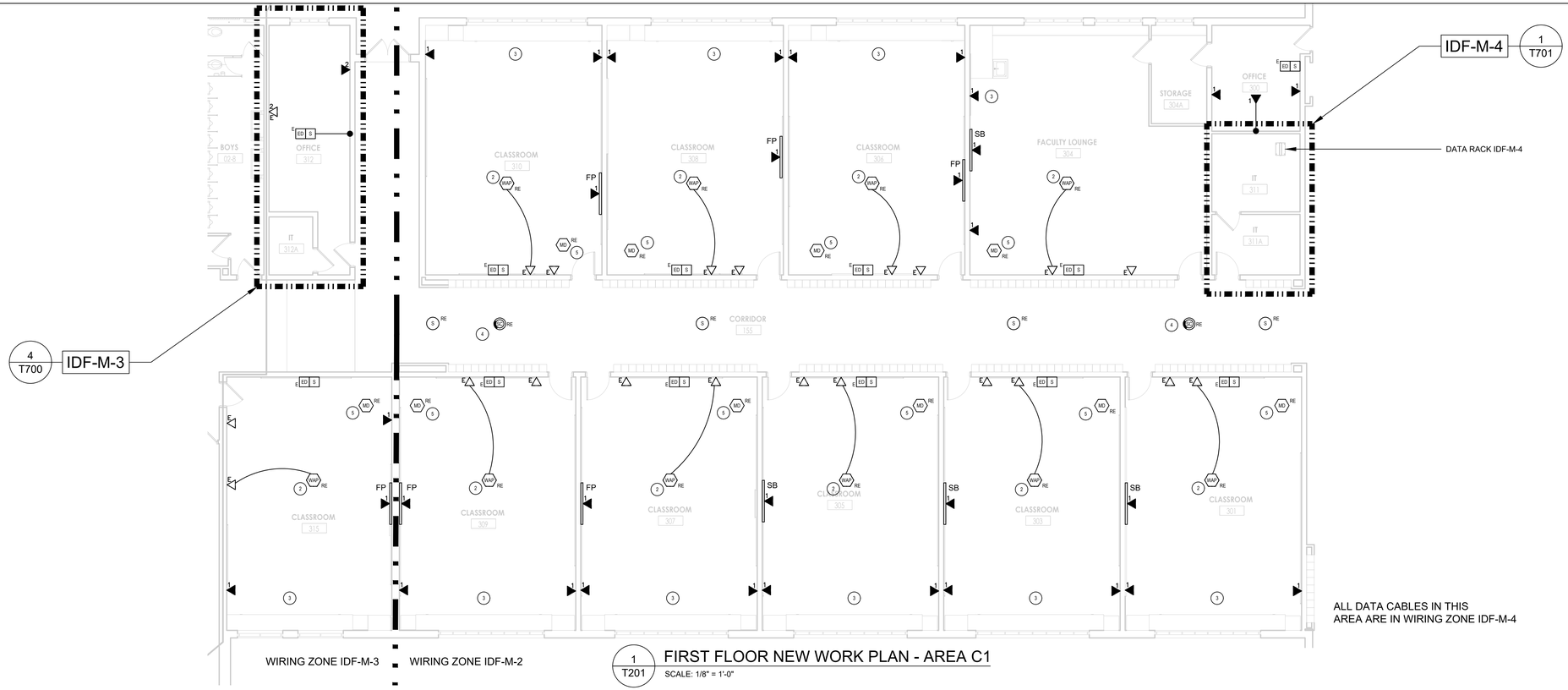
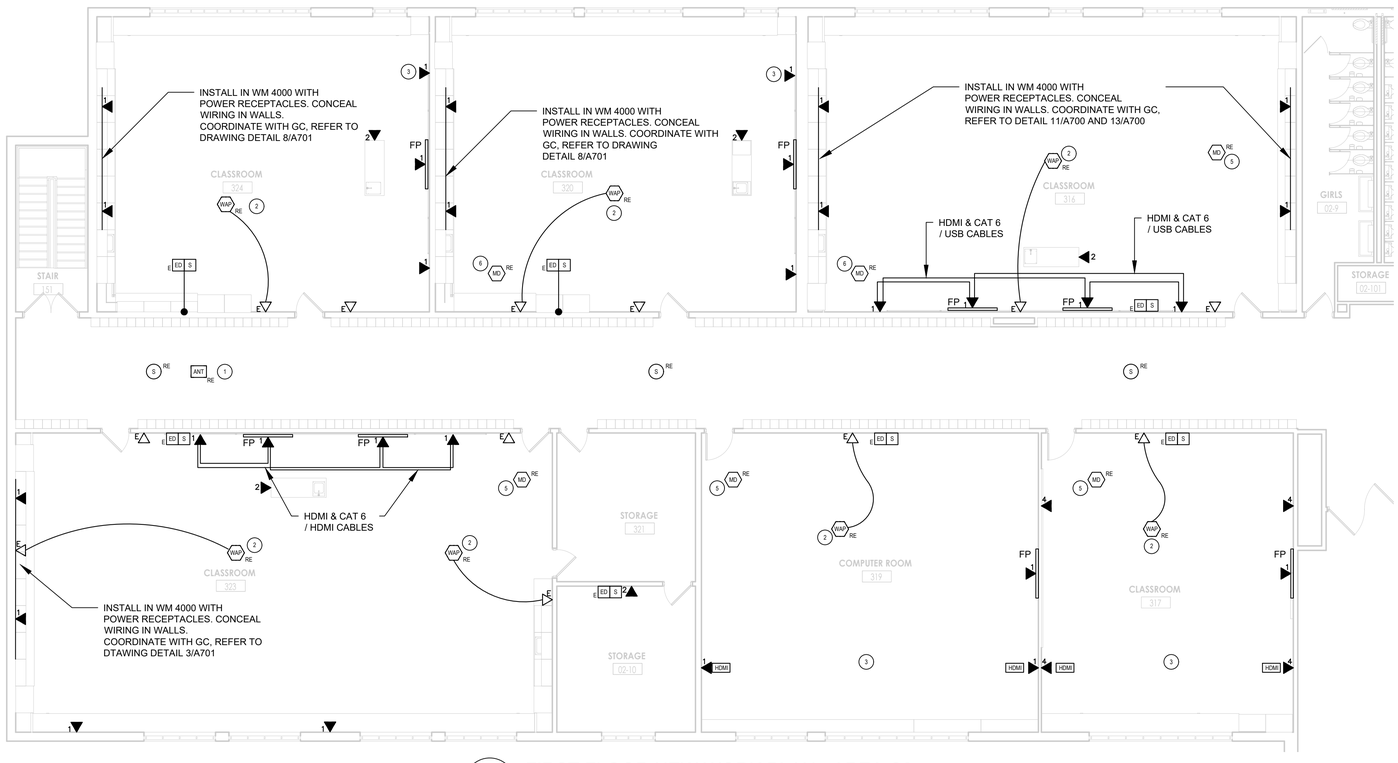


1 T201 FIRST FLOOR NEW WORK PLAN - AREA C1
SCALE: 1/8" = 1'-0"



2 T201 FIRST FLOOR NEW WORK PLAN - AREA C2
SCALE: 1/8" = 1'-0"

GENERAL NOTES

A. THE DISTRICT WILL REMOVE TELEPHONES AND RE-INSTALL IN RENOVATED SPACES.

B. THE DISTRICT WILL REMOVE FLAT PANELS AND SMART BOARDS AND REINSTALL IN ALL RENOVATED SPACES.

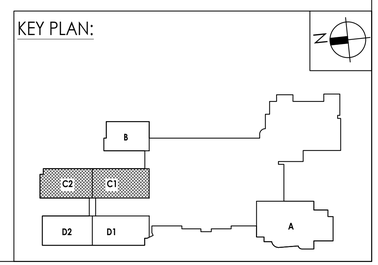
C. ALL SPEAKER / ELECTRONIC DISPLAY CABINETS SHALL REMAIN IN PLACE UNLESS OTHERWISE NOTED. GENERAL CONTRACTOR WILL PROTECT DEVICES WHEN RE-PAINTING RENOVATED SPACES.

D. REFER TO DETAIL 1/T702 FOR CLASSROOM WIRING FOR FLAT PANELS AND DATA JACKS. TYPICAL ALL CLASSROOMS UNLESS OTHERWISE NOTED.

DRAWING NOTES

1. ROCKLAND COUNTY 911 EMS ANTENNA SYSTEM. MAINTAIN SYSTEM INTEGRITY THROUGHOUT CONSTRUCTION PROJECT.
2. INSTALL RELOCATED WAP ON NEW CEILING. ATTACH T-BAR MOUNTING BRACKET TO MAIN CEILING T. PROVIDE A 20 FT, CAT 6 PATCH CABLE TO CONNECT TO EXISTING CAT 6 JACK THAT PREVIOUSLY SERVED WAP
3. INSTALL NEW DATA CABLES WITH ASSOCIATED HDMI AND USB CABLES FOR FLAT PANEL AT TEACHER'S STATIONS AS SHOWN ON DETAIL 1/T702.
4. RE-INSTALL EXISTING CAMERA ON NEW CEILING. CONNECT TO EXISTING NETWORK JACK ABOVE CEILING WITH NEW CAT 6 PATCH CABLE.
5. INSTALL MOTION DETECTOR ON NEW CEILING. EXTEND EXISTING INTRUSION SYSTEM WIRING AS REQUIRED.

KEY PLAN:



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Poughkeepsie, NY 12601
CPLteam.com
NY ENGINEERING FIRM CERTIFICATE #0021419

ECC Technologies

PROJECT INFORMATION

Project Number
R22.14457.20

Client Name
SOUTH ORANGETOWN CENTRAL SCHOOL DISTRICT

Project Name
PHASE 2: 2022 BOND

TAPPAN ZEE HIGH SCHOOL

Building Address
15 DUTCH HILL ROAD, ORANGEBURG, NY 10962

SED # 50-03-01-06-0-006-033

Registration Expiration Dates
Lauren Torso 09/30/26
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PROJECT ISSUE & REVISION SCHEDULE

#	Date	Description

PROFESSIONAL STAMPS

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SHEET INFORMATION

Issued	Scale
10/25/24	AS INDICATED
Project Status	
BID DOCUMENTS	
Drawn By	Checked By
AH	BH

Drawing Title
FIRST FLOOR NEW WORK PLAN - AREA C

Drawing Number
TZHS T201

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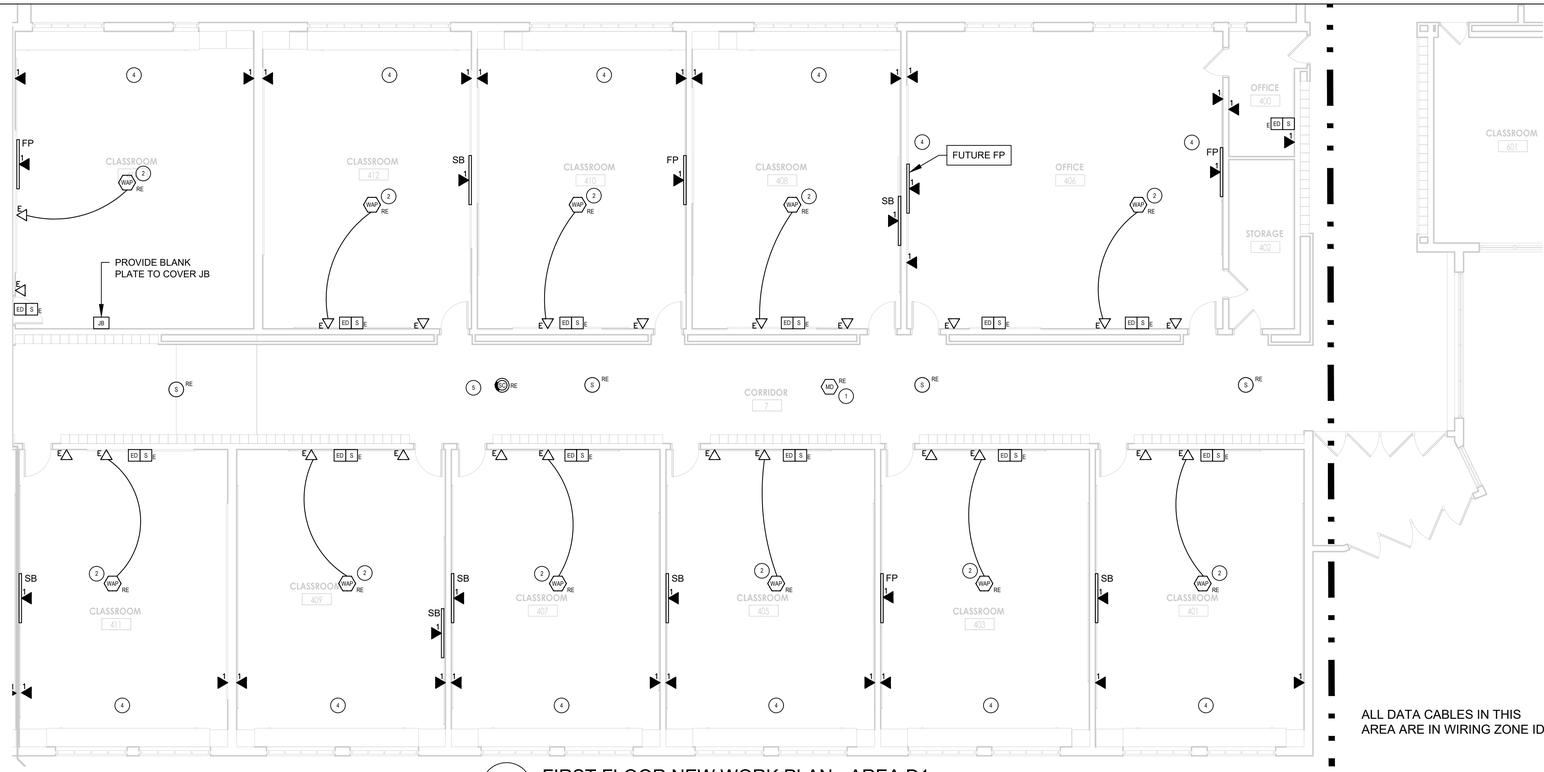
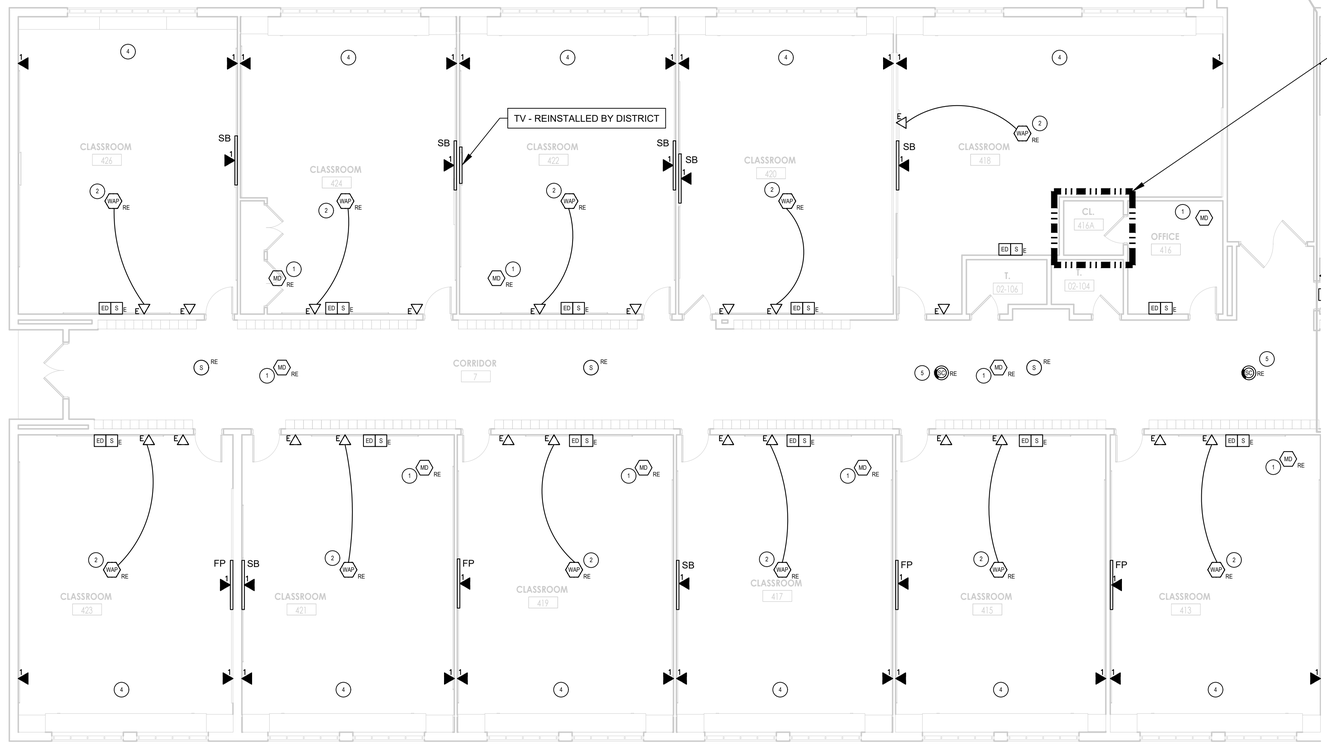


ALL DATA CABLES IN THIS AREA ARE IN WIRING ZONE IDF-M-2

ALL DATA CABLES IN THIS AREA ARE IN WIRING ZONE IDF-M-3

1 / T202 FIRST FLOOR NEW WORK PLAN - AREA D1

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



ALL DATA CABLES IN THIS AREA ARE IN WIRING ZONE IDF-M-2

2 / T202 FIRST FLOOR NEW WORK PLAN - AREA D1

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

GENERAL NOTES

A. THE DISTRICT WILL REMOVE TELEPHONES AND RE-INSTALL IN RENOVATED SPACES.

B. THE DISTRICT WILL REMOVE FLAT PANELS AND SMART BOARDS AND REINSTALL IN ALL RENOVATED SPACES.

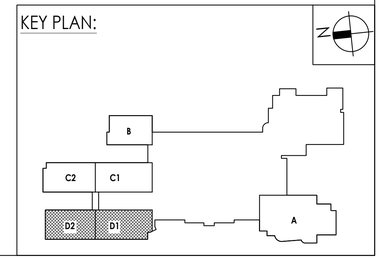
C. ALL SPEAKER / ELECTRONIC DISPLAY CABINETS SHALL REMAIN IN PLACE UNLESS OTHERWISE NOTED. GENERAL CONTRACTOR WILL PROTECT DEVICES WHEN RE-PAINTING RENOVATED SPACES.

D. REFER TO DETAIL 1/T702 FOR CLASSROOM WIRING FOR FLAT PANELS AND DATA JACKS. TYPICAL ALL CLASSROOMS UNLESS OTHERWISE NOTED.

DRAWING NOTES

1. INSTALL NEW MOTION DETECTOR ON NEW CEILING. WIRING AS REQUIRED.
2. INSTALL RELOCATED WAP ON NEW CEILING. ATTACH T-BAR MOUNTING BRACKET TO MAIN CEILING T. PROVIDE A 20 FT, CAT 6 PATCH CABLE TO CONNECT TO EXISTING CAT 6 JACK THAT PREVIOUSLY SERVED WAP
3. REMOVE EXISTING HORN ASSEMBLY ON EXTERIOR AND INSTALL NEW HORN IN SAME LOCATION. REUSE CONDUIT SLEEVE THROUGH WALL AND INSTALL NEW SEAL TIGHT TO EXTERIOR HORN.
4. INSTALL NEW DATA CABLES WITH ASSOCIATED HDMI AND USB CABLES FOR FLAT PANEL AT TEACHER'S STATIONS AS SHOWN ON DETAIL 1/T702.
5. RE-INSTALL EXISTING CAMERA ON NEW CEILING. CONNECT TO EXISTING NETWORK JACK ABOVE CEILING WITH NEW CAT 6 PATCH CABLE.

KEY PLAN:



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26 IBM Road
Poughkeepsie, NY 12601
CPLteam.com
NY ENGINEERING FIRM CERTIFICATE #0021419

ECC Technologies

PROJECT INFORMATION

Project Number
R22.14457.20

Client Name
SOUTH ORANGETOWN CENTRAL SCHOOL DISTRICT

Project Name
PHASE 2: 2022 BOND

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SED # 50-03-01-06-0-006-033

Registration Expiration Dates
Lauren Tanso 09/30/26
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Dave Hart 02/28/25
Jennifer Wengender 06/30/27

PROJECT ISSUE & REVISION SCHEDULE

#	Date	Description

PROFESSIONAL STAMPS

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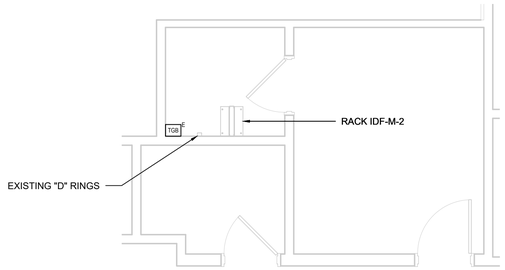
SHEET INFORMATION

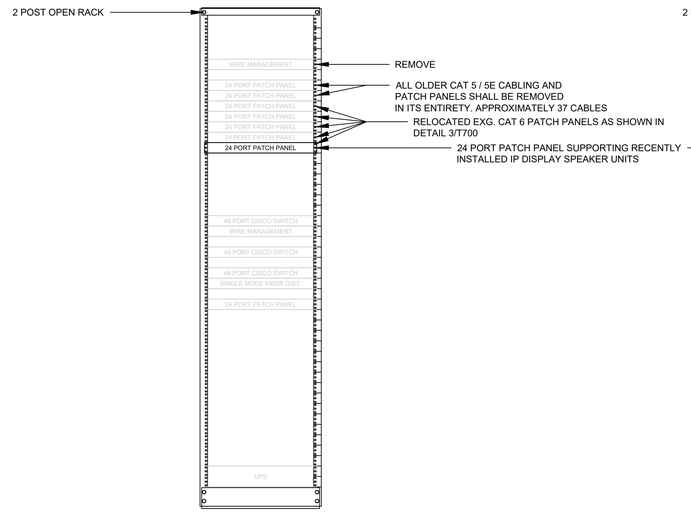
Issued	Scale
10/25/24	AS INDICATED
Project Status	
BID DOCUMENTS	
Drawn By	Checked By
AH	BH

Drawing Title
FIRST FLOOR NEW WORK PLAN - AREA D

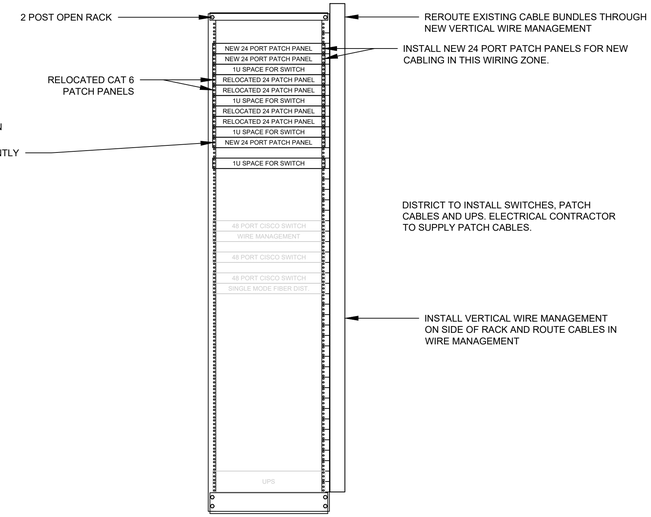
Drawing Number
TZHS T202



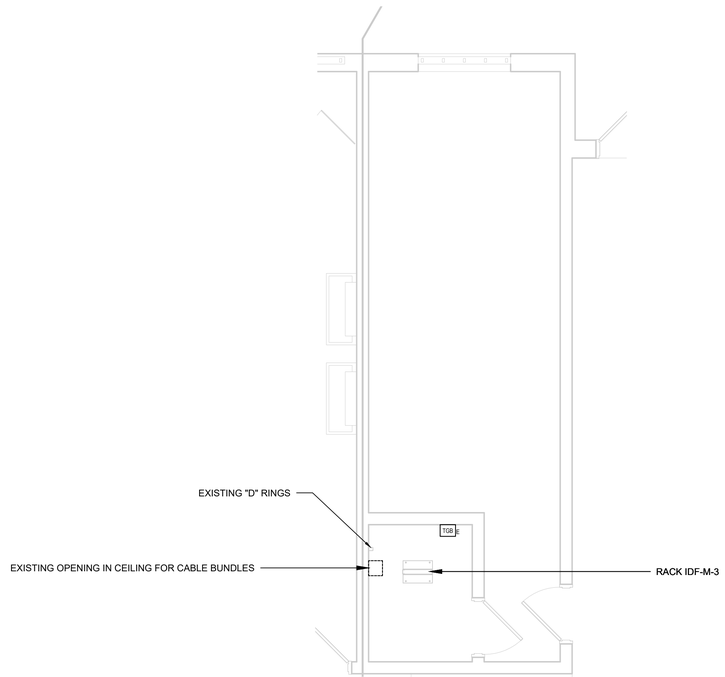
1 / T700 IDF-M-2 (RM 416A)
SCALE: 1/4"=1'-0"



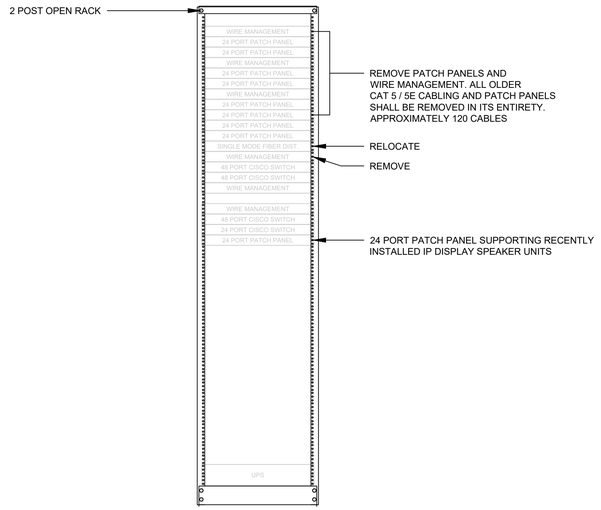
2 / T700 IDF-M-2 RACK ELEVATION (EXISTING)
SCALE: NONE



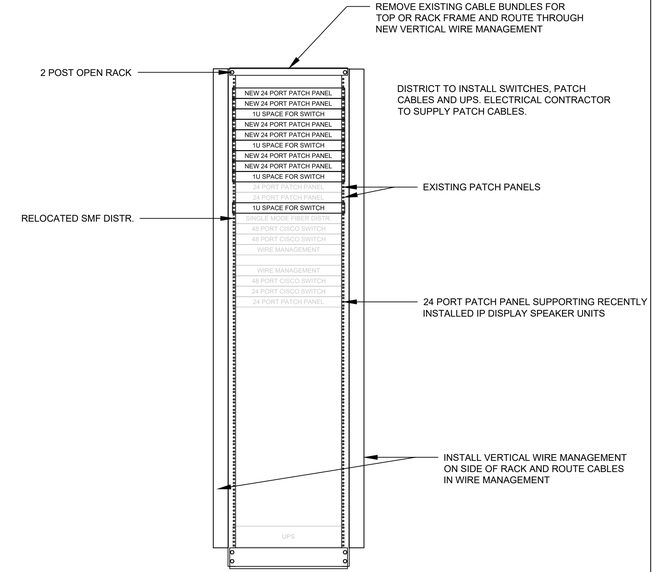
3 / T-700 IDF-M-2 RACK ELEVATION (NEW)
SCALE: NONE



4 / T700 IDF-M-3 (IT ROOM 312A)
SCALE: 1/4"=1'-0"



5 / T700 IDF-M-3 RACK ELEVATION (EXISTING)
SCALE: NONE



6 / T700 IDF-M-3 RACK ELEVATION (NEW)
SCALE: NONE

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ECC Technologies

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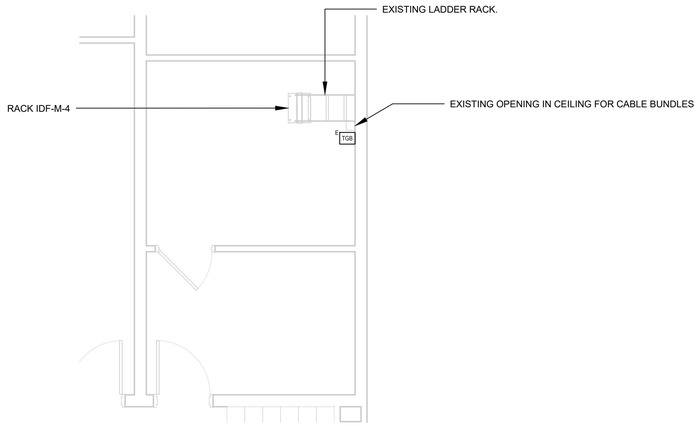
SHEET INFORMATION

Issued: 10/25/24
Scale: AS INDICATED
Project Status: BID DOCUMENTS
Drawn By: AH
Checked By: BH
Drawing Title: DETAILS

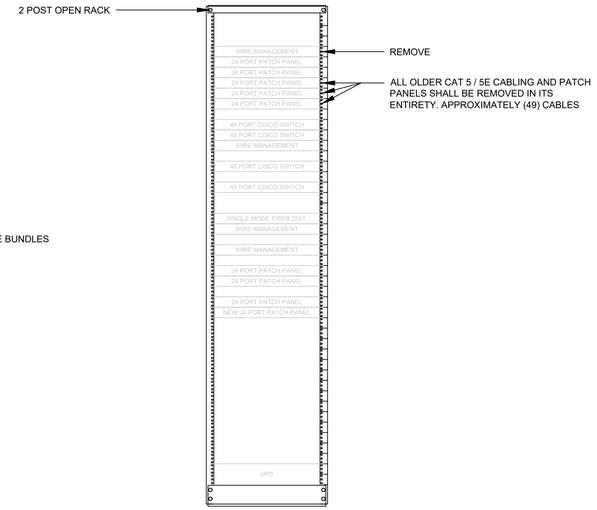
Drawing Number
TZHS
T700

10/14/2024 9:38:41 AM <project location>\REVIT PROJECT FILES ON BIM 360



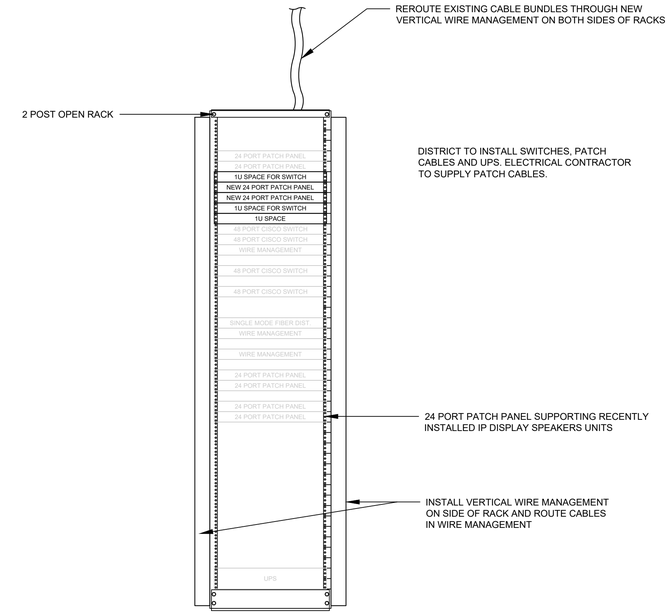
1 T701 IDF-M-M-4 (IT ROOM 311)

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



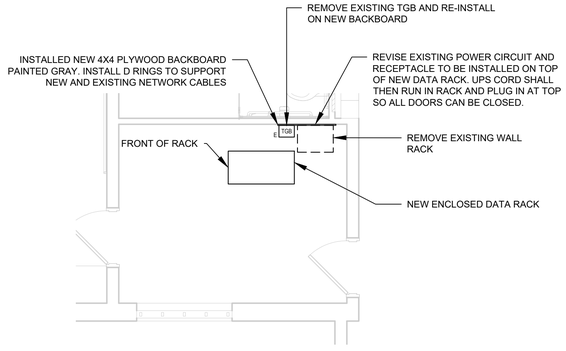
2 T701 IDF-M-4 RACK ELEVATION (EXISTING)

SCALE: NONE



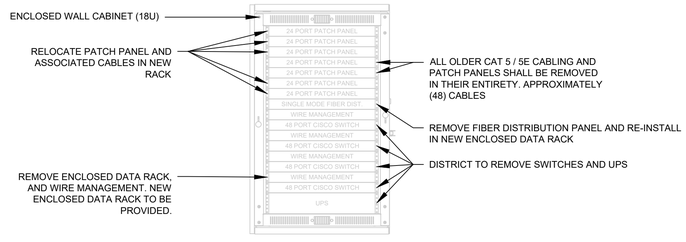
3 T701 IDF-M-4 RACK ELEVATION (NEW)

SCALE: NONE



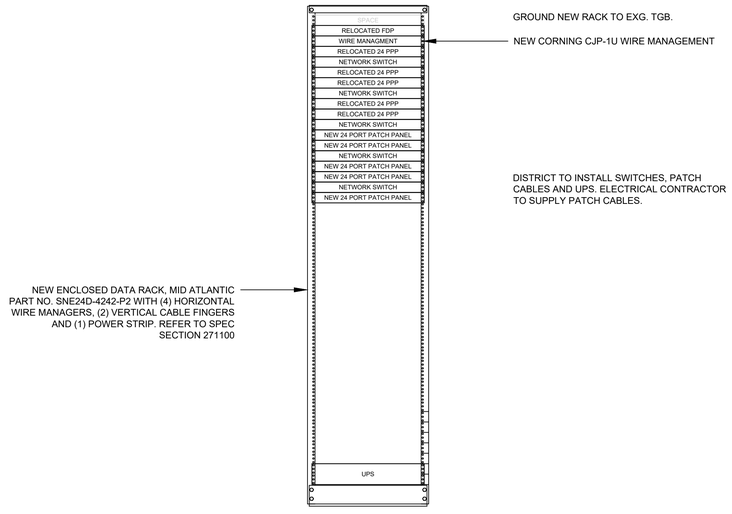
4 T701 IDF-M-5 (OFFICE 201)

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



5 T701 IDF-M-5 RACK ELEVATION (EXISTING)

SCALE: NONE



6 T701 IDF-M-5 RACK ELEVATION (NEW)

SCALE: NONE

CPL | Architecture Engineering Planning
26 IBM Road
Poughkeepsie, NY 12601
CPLteam.com

NY ENGINEERING FIRM CERTIFICATE #0021419

ECC Technologies

PROJECT INFORMATION

Project Number
R22.14457.20

Client Name
SOUTH ORANGETOWN CENTRAL SCHOOL DISTRICT

Project Name
PHASE 2: 2022 BOND

TAPPAN ZEE HIGH SCHOOL

Building Address
15 DUTCH HILL ROAD, ORANGEBURG, NY 10962

SED # 50-03-01-06-0-006-033

Registration Expiration Dates
Lauren Tanso 09/30/26
Anthony Marchetti 05/31/27
Dave Hart 02/28/25
Jennifer Wengender 06/30/27

PROJECT ISSUE & REVISION SCHEDULE

#	Date	Description

PROFESSIONAL STAMPS

NEW YORK STATE EDUCATION STATEMENT

IT IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND THE COMMISSIONER OF EDUCATION'S REGULATIONS FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED ARCHITECT, ENGINEER OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE SEAL OF AN ARCHITECT, ENGINEER OR SURVEYOR IS ALTERED, THE ALTERING PARTY SHALL AFFIX TO THE ITEM THEIR SEAL AND THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE AND THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

SHEET INFORMATION

Issued
10/25/24

Scale
AS INDICATED

Project Status
BID DOCUMENTS

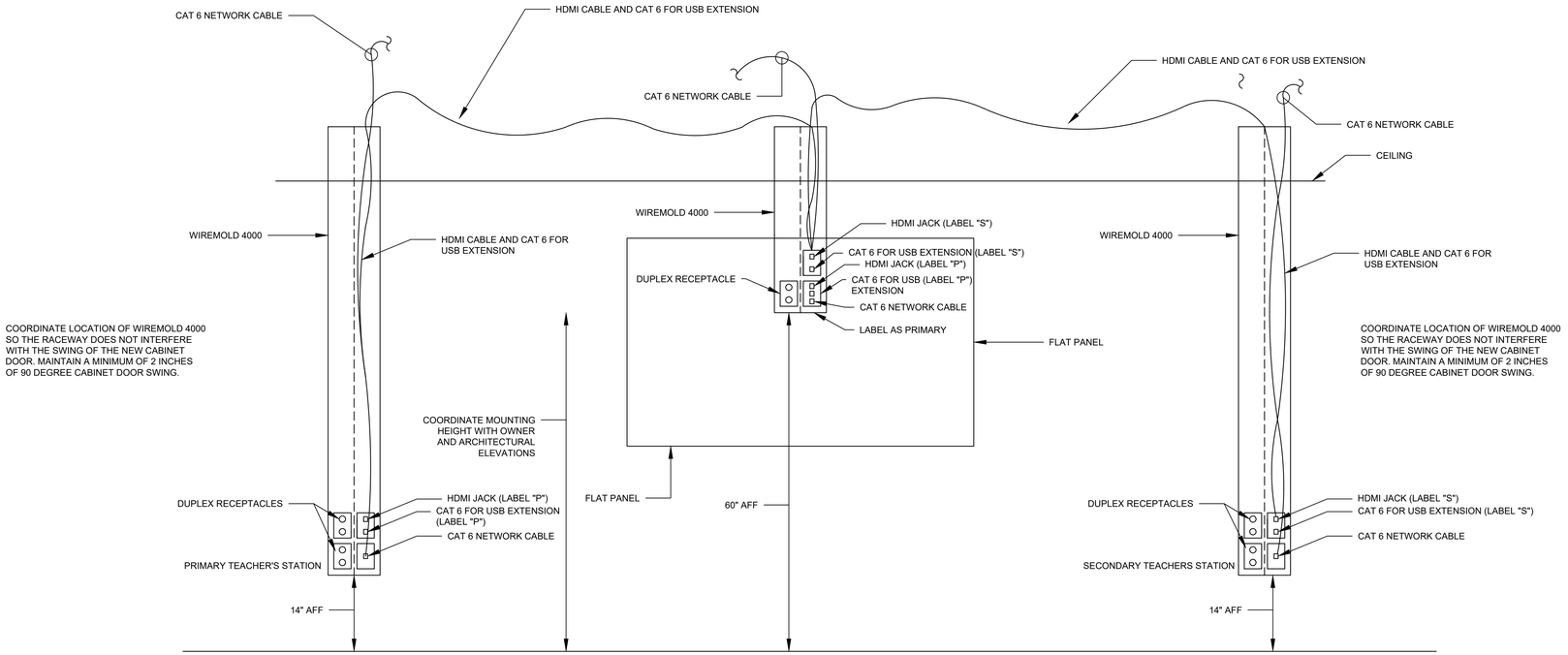
Drawn By
AH

Checked By
BH

Drawing Title
DETAILS

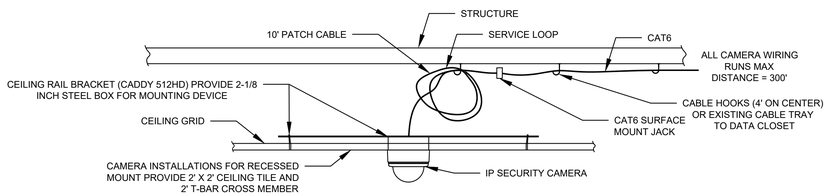
Drawing Number
TZHS T701

10/14/2024 9:38:41 AM <project location>\REVIT PROJECT FILES ON BIM 360



1 T702 TYPICAL CLASSROOM FLAT PANEL WIRING DIAGRAM

SCALE: NO SCALE



2 T702 TYPICAL CEILING DOME IP CAMERA INSTALLATION DETAIL

SCALE: NONE

CPL | Architecture Engineering Planning
26 IBM Road
Poughkeepsie, NY 12601
CPLteam.com

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