

11/17/2023 1:17:24 PM c:\project\location> REVIT PROJECT FILES ON BIM360



ASBESTOS ABATEMENT PLAN
1/16" = 1'-0"

ASBESTOS ABATEMENT GENERAL NOTES

- ABATEMENT CONTRACTOR TO REMOVE AND DISPOSE OF BOTH ACM AND NON-ACM FLOOR TILES AND ASSOCIATED ACM MASTIC TO NON-ACM CONCRETE SUBSTRATE.
- ABATEMENT CONTRACTOR TO REMOVE AND DISPOSE OF EXISTING WALL BASE.
- ABATEMENT CONTRACTOR TO REMOVE AND DISPOSE OF METAL SINK BASIN WITH ACM ANTI-SWEAT TAR, & NON-ACM BASE CABINET.
- ABATEMENT CONTRACTOR TO REMOVE EXISTING CARPET FLOORING (OVERTOP OF ACM FLOOR TILES)
- ABATEMENT CONTRACTOR TO REMOVE EXISTING 1'x1' VCT TILES (OVERTOP OF ACM FLOOR TILES)
- ABATEMENT CONTRACTOR TO REMOVE AND DISPOSE OF CMU WALL & LEAD CONTAINING DECORATIVE BLOCK AT NEW DOOR LOCATIONS. FINAL LOCATION TO BE COORDINATED WITH G.C.

GENERAL ASBESTOS DEMOLITION NOTES:

- ALL DRAWINGS ARE A GRAPHIC REPRESENTATION OF APPROXIMATE LOCATIONS OF MATERIALS TO BE ABATED. IF THERE ARE ANY DISCREPANCIES WITH WHAT EXISTS TO WHAT IS INDICATED ON THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL REPORT SAID DISCREPANCIES TO THE ARCHITECT PRIOR TO SUBMITTING A BID. THE INTENT OF THIS PROJECT IS TO COMPLETELY REMOVE ASBESTOS CONTAINING MATERIALS INDICATED AND TO PROVIDE A CLEAN ACM FREE WORK AREA POST ABATEMENT.
- ALL ABATEMENT PROCEDURES TO BE IN ACCORDANCE WITH STANDARDS SET FORTH BY NEW YORK STATE DEPARTMENT OF LABOR INDUSTRIAL CODE RULE 56 AND ALL APPLICABLE REGULATIONS.
- THE CONTRACTOR SHALL PATCH TO MATCH ANY DISTURBED AREAS AND FINISHES AS A RESULT OF THEIR ABATEMENT WORK. ANY DAMAGE SHALL BE REPAIRED TO THE OWNER'S AND ARCHITECT'S SATISFACTION AT NO ADDITIONAL COST TO THE OWNER.
- THE CONTRACTOR SHALL COORDINATE THE LOCATION OF THE ASBESTOS DUMPSTER WITH THE OWNER.
- THE CONTRACTOR MAY APPLY FOR PROJECT SPECIFIC VARIANCES. USE OF SUCH VARIANCES ARE SUBJECT TO APPROVAL BY THE OWNER AND ARCHITECT.

PROJECT INFORMATION

Project Number
14457.20
Client Name
SOUTH ORANGETOWN CENTRAL SCHOOL DISTRICT
Project Name
PHASE 1: 2022 BOND

District Office Address
160 VAN WYCK RD.
BLAUVELT, NY 10913

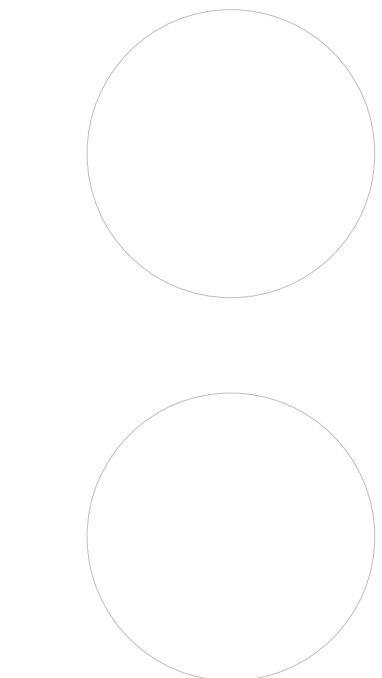
SOUTH ORANGETOWN CSD

- WILLIAM O. SCHAEFER SED#35-03-01-06-0-012-019
- COTTAGE LANE ELEMENTARY SED#35-03-01-06-0-010-022
- TAPPAN ZEE HIGH SCHOOL SED#35-03-01-06-0-006-032
- WILLIAM O. SCHAEFER SAL SED#35-03-01-06-0-012-020
- COTTAGE LANE SAL SED#35-03-01-06-0-010-023
- COTTAGE LANE LIBRARY SAL SED#35-03-01-06-0-023-002
- WOS OUTDOOR CLASSROOM SED#35-03-01-06-7-033-001
- SONGS OUTDOOR CLASSROOM SED#35-03-01-06-7-036-001
- CLE OUTDOOR CLASSROOM SED#35-03-01-06-7-034-001
- 12HS OUTDOOR CLASSROOM SED#35-03-01-06-7-035-001

PROJECT ISSUE & REVISION SCHEDULE

| No. | Date | Description |
|-----|----------|-----------------|
| 1 | 11/17/23 | BID ADDENDUM #4 |

PROFESSIONAL STAMPS



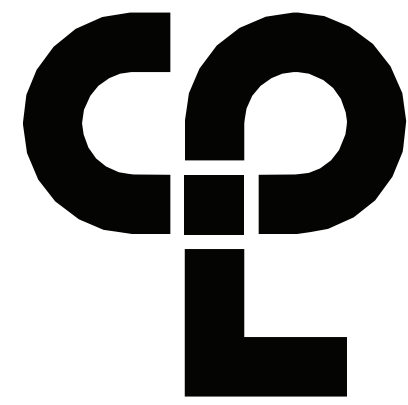
NEW YORK STATE EDUCATION DEPARTMENT
If it is a violation of the NEW YORK STATE EDUCATION LAW AND THE COMMISSIONER'S
REGULATIONS FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED
ARCHITECT, ENGINEER OR LAND SURVEYOR, TO ACT AS SUCH IN ANY WAY, IN ANY FORM,
BEARING THE SEAL OF ANY OFFICE, LICENSED OR OTHERWISE, IN ANY MANNER, THE
PENALTY SHALL BE FINE OF \$100 PER DAY, AND THE REVOCATION, SUSPENSION OR
REPEAL OF THE LICENSE, AND A SPECIFIC DESCRIPTION OF THE
VIOLATION.

SHEET INFORMATION

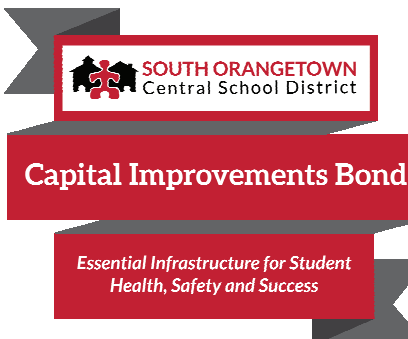
Issued
10/18/23
Scale
As indicated
Project Status
BID DOCUMENTS
Drawn By
CD
Checked By
LT
Drawing Title
ASBESTOS ABATEMENT PLAN

Drawing Number

WOS
HZ100



CPL | Architecture Engineering Planning
50 Front Street Suite 202,
Newburgh, NY 12550
CPLteam.com



PROJECT INFORMATION

Project Number

14457.20

Client Name

**SOUTH ORANGETOWN
CENTRAL SCHOOL DISTRICT**

Project Name

PHASE 1: 2022 BOND

District Office Address

160 VAN WYCK RD,
BLAUVELT, NY 10913

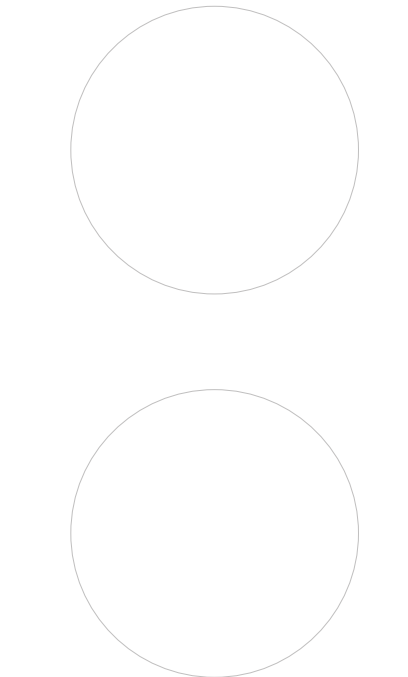
SOUTH ORANGETOWN CSD

- ☐ WILLIAM O. SCHAEFER SED#30-03-01-06-0-012-019
- ☐ COTTAGE LANE ELEMENTARY SED# 30-03-01-06-0-010-022
- ☐ WILLIAM O. SCHAEFER SAL SED# 30-03-01-06-0-012-020
- ☐ COTTAGE LANE SAL SED# 30-03-01-06-0-010-023
- ☐ COTTAGE LANE LIBRARY SAL SED# 30-03-01-06-0-023-002
- ☒ WICKS OUTDOOR CLASSROOM SED# 30-03-01-06-7-033-001
- ☒ SCAM OUTDOOR CLASSROOM SED# 30-03-01-06-7-036-001
- ☒ CUE OUTDOOR CLASSROOM SED# 30-03-01-06-7-034-001
- ☒ TRIS OUTDOOR CLASSROOM SED# 30-03-01-06-7-035-001

PROJECT ISSUE & REVISION SCHEDULE

| No. | Date | Description |
|-----|----------|------------------|
| 1 | 11-17-23 | BID ADDENDUM #04 |

PROFESSIONAL STAMPS



NEW YORK STATE EDUCATION STATUTES

IT IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND THE COMMISSIONERS' REGULATIONS FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECT SUPERVISION OF A LICENSED ARCHITECT, ENGINEER OR LAND SURVEYOR, TO ALTER ANY ITEM IN ANY MAP, OR ARCHITECTURAL DRAWING, OR PLAN, OR ANY INSTRUMENT, DRAWING OR SPECIFICATION, HEREIN, OR ANY OTHER PART, AND ANY SUCH ALTERATION, WITHOUT BEING FIRST ADVISED BY THE ARCHITECT, ENGINEER OR LAND SURVEYOR, SHALL BE FOLLOWED BY THE SIGNATURE AND THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

SHEET INFORMATION

Issued 10/18/2023 Scale 3/4" = 1'-0"

Project Status

BID DOCUMENTS

Drawn By

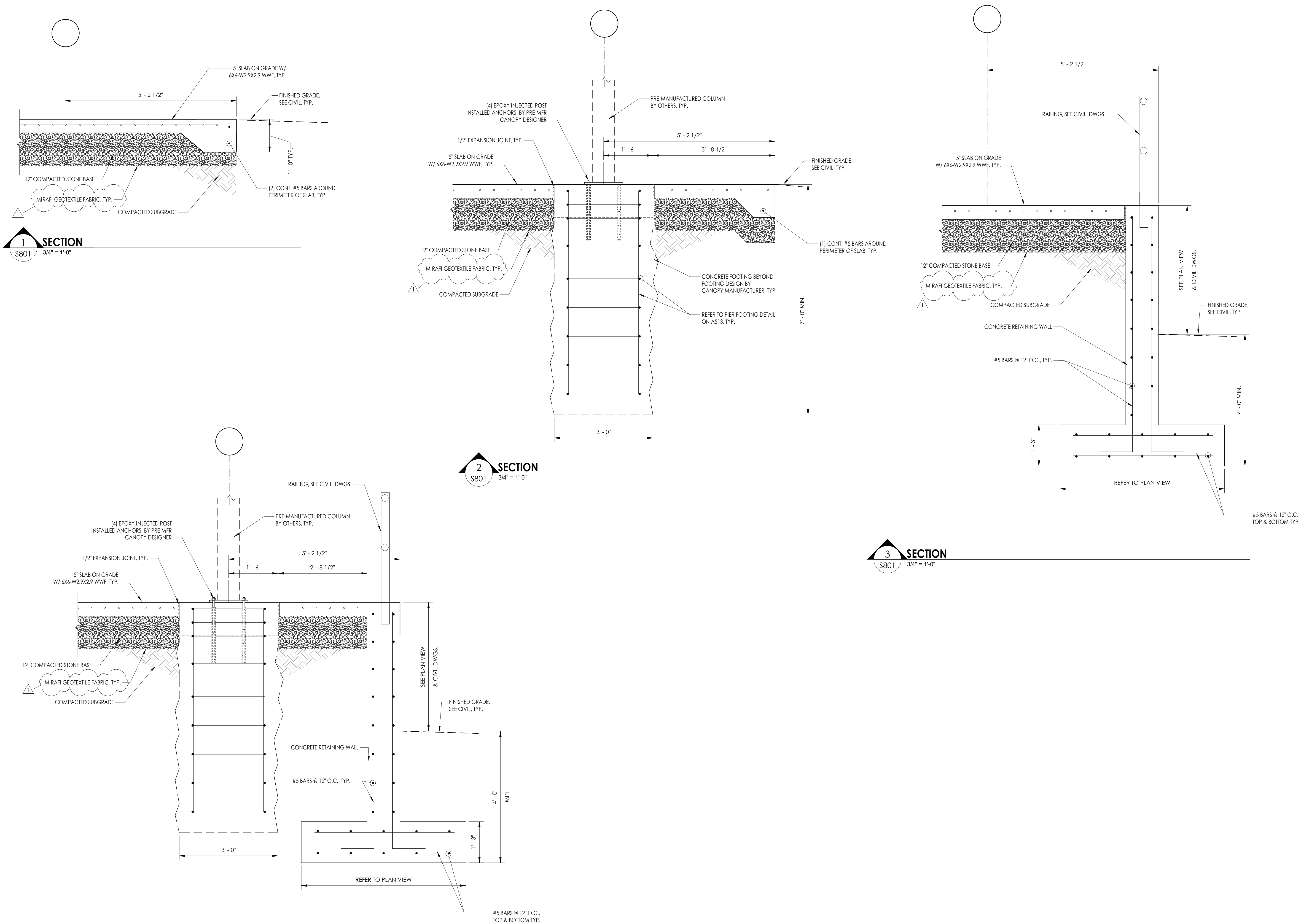
SAW

Drawing Title

STRUCTURAL TYPICAL DETAILS

Drawing Number

GEN
S801

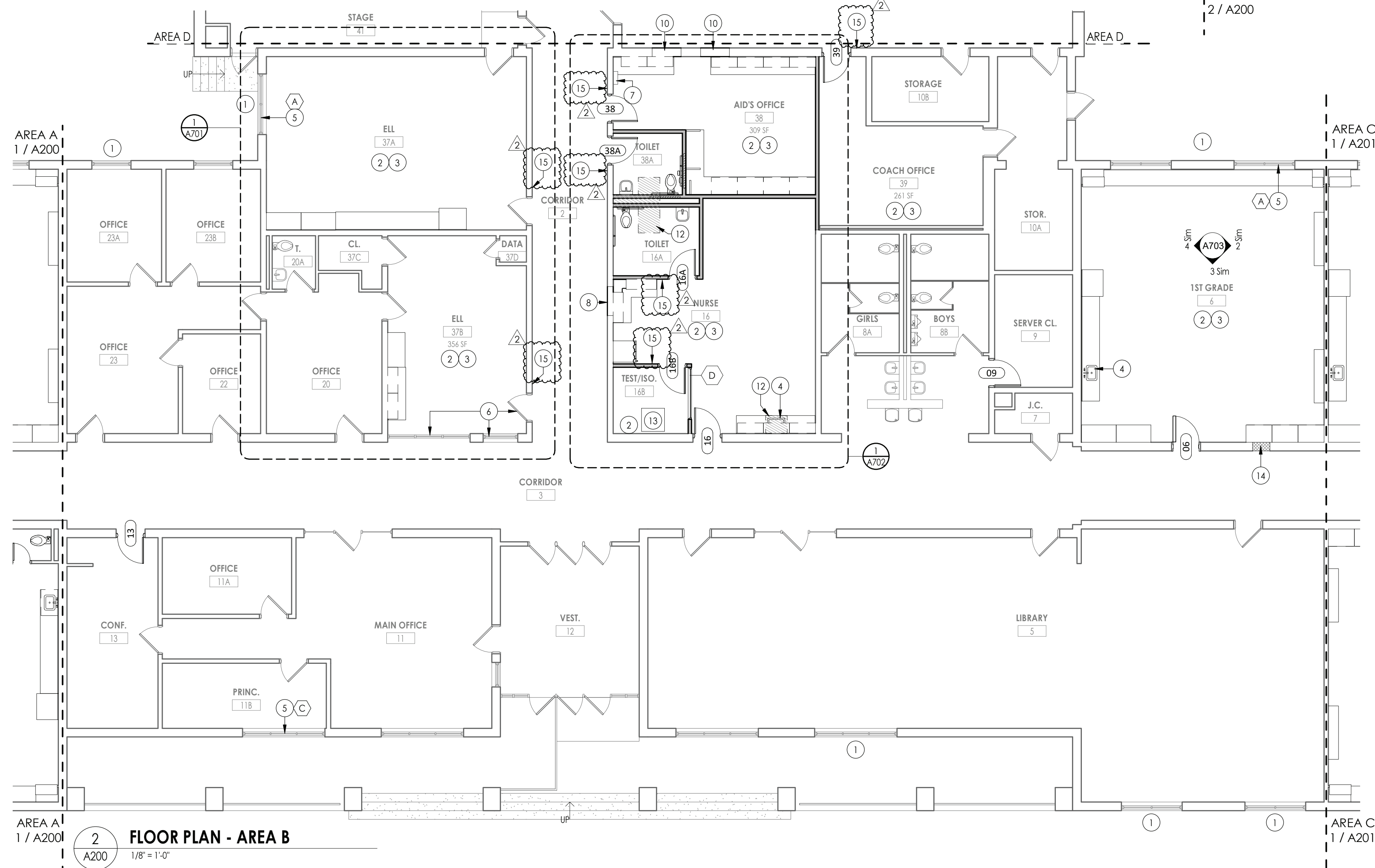
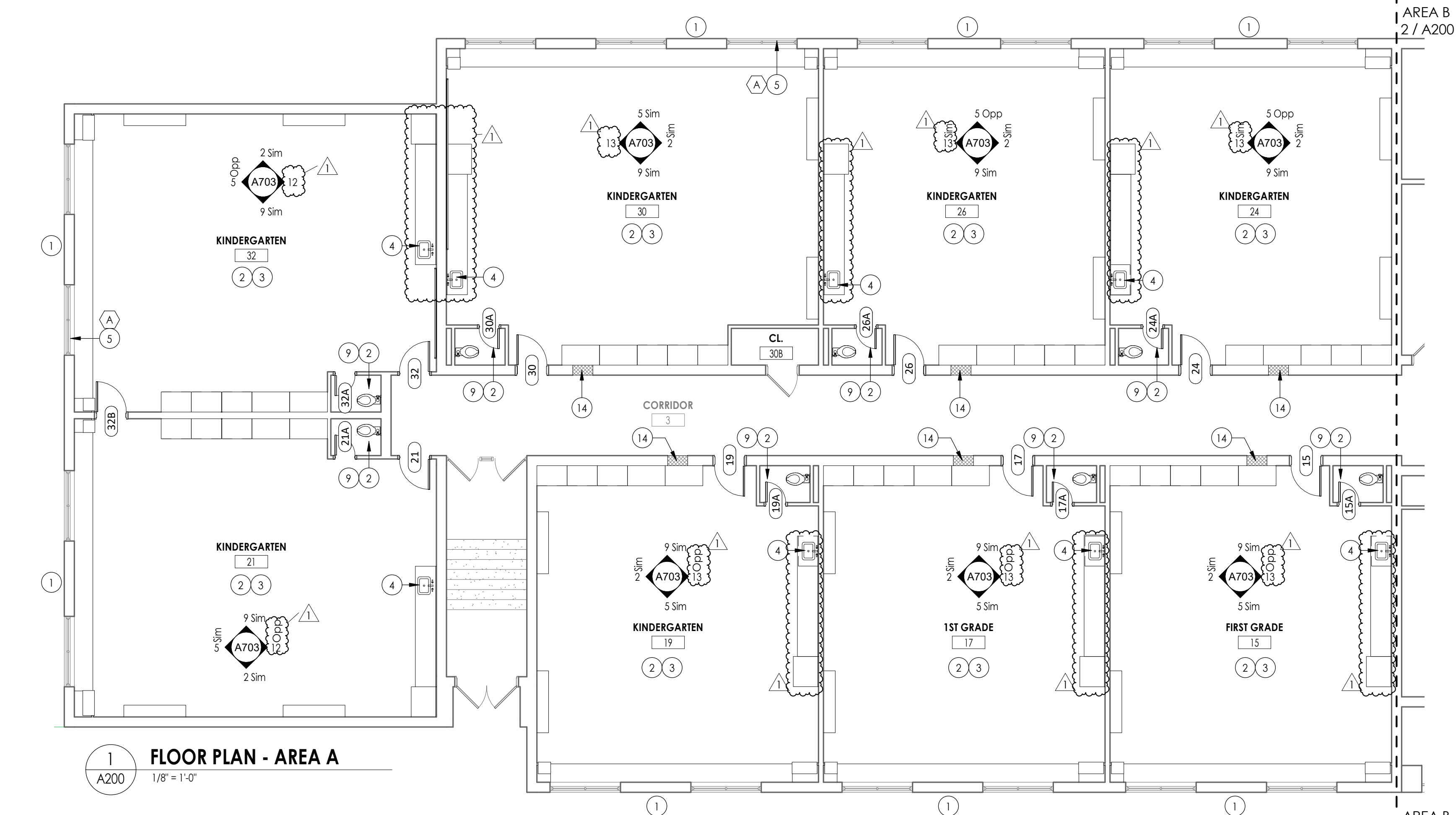


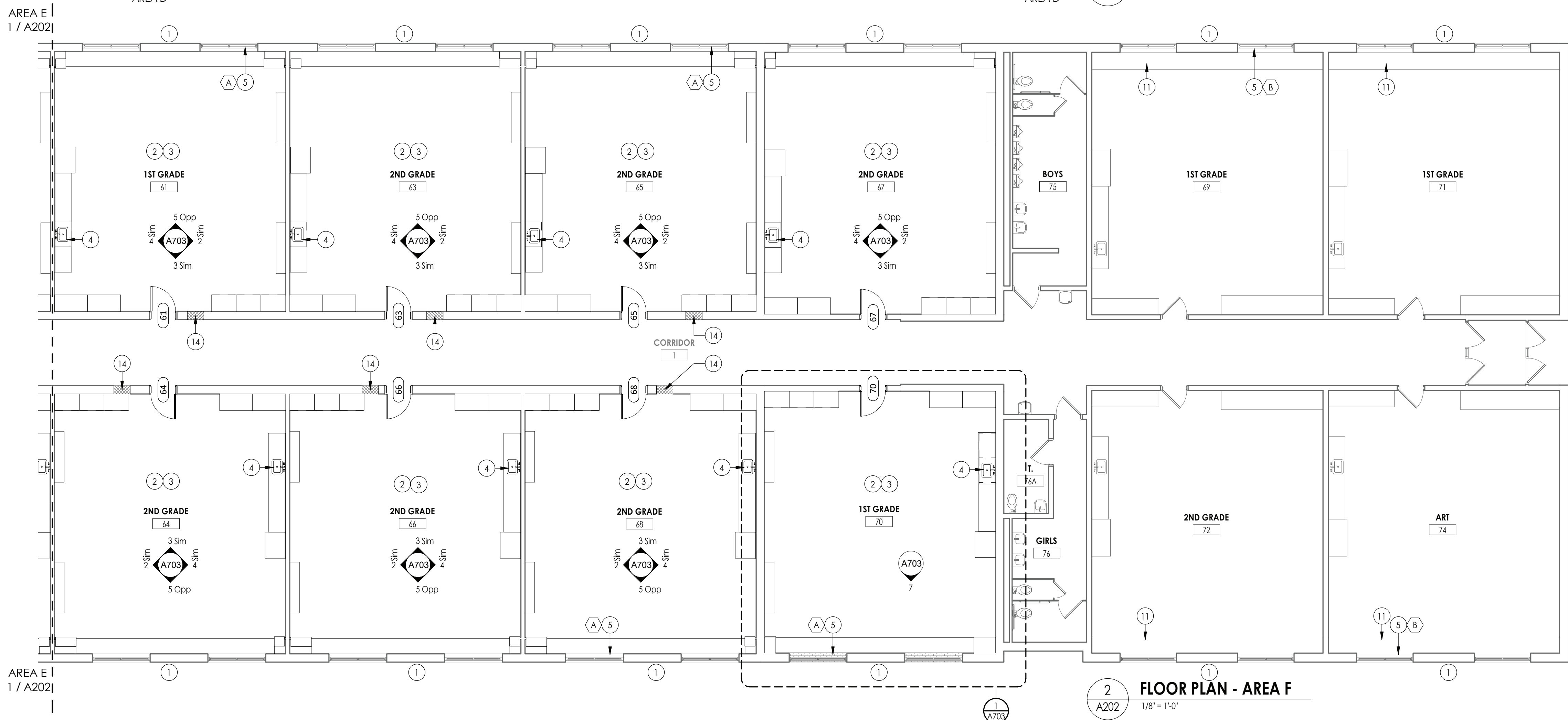
SECTION S801 3/4" = 1'-0"

SECTION S801 3/4" = 1'-0"

SECTION S801 3/4" = 1'-0"

SECTION S801 3/4" = 1'-0"





KEY PLAN:

The key plan shows a site layout with six numbered areas. Areas A, B, and C are in the foreground, while D, E, and F are in the background. A north arrow is located in the top right corner, pointing towards the top of the page.



\\project\location> REVIT PROJECT FILES ON BIN60 11/17/2023 12:29:29 PM

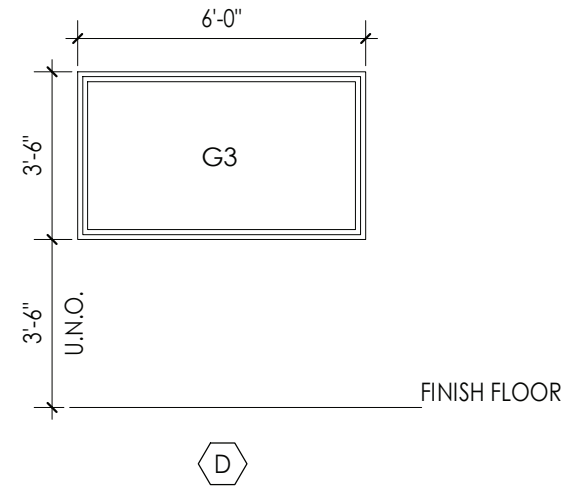
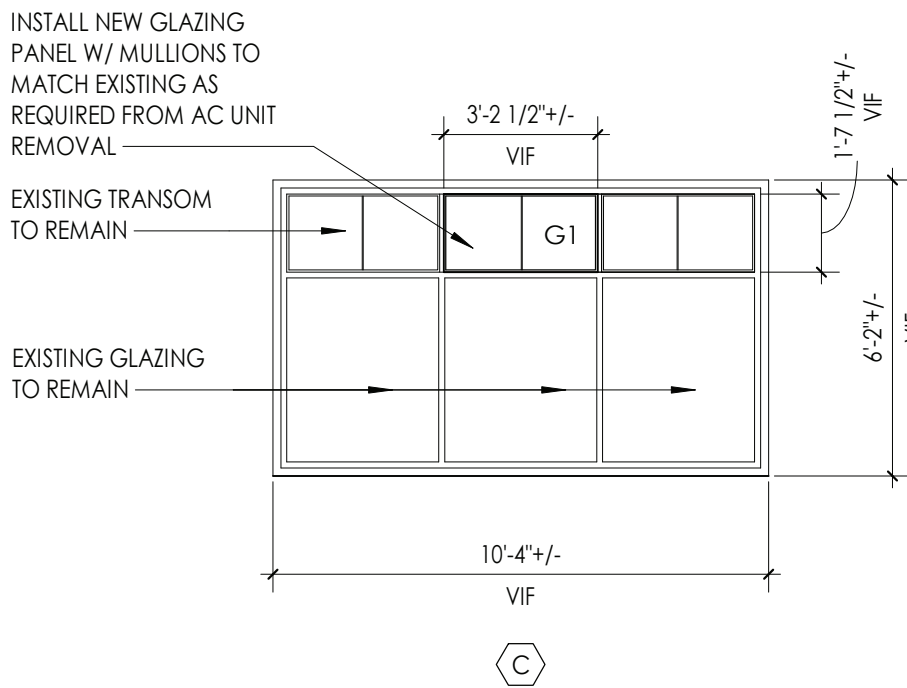
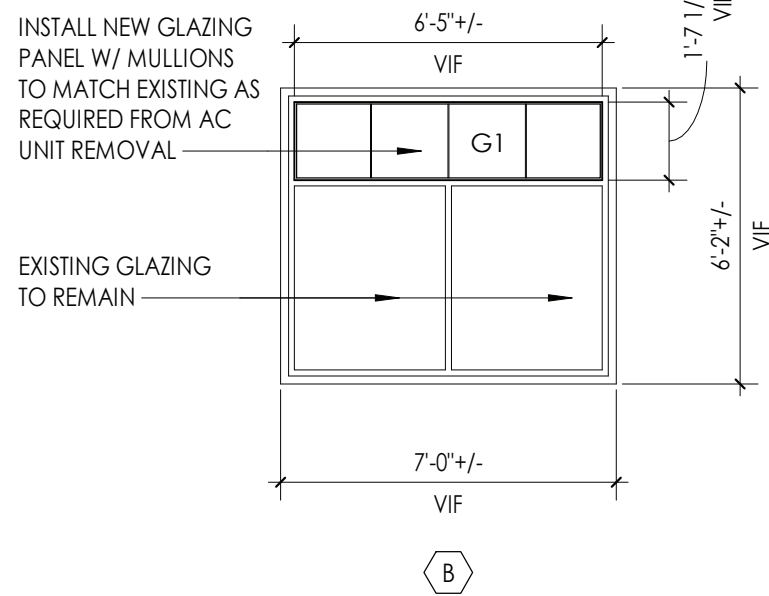
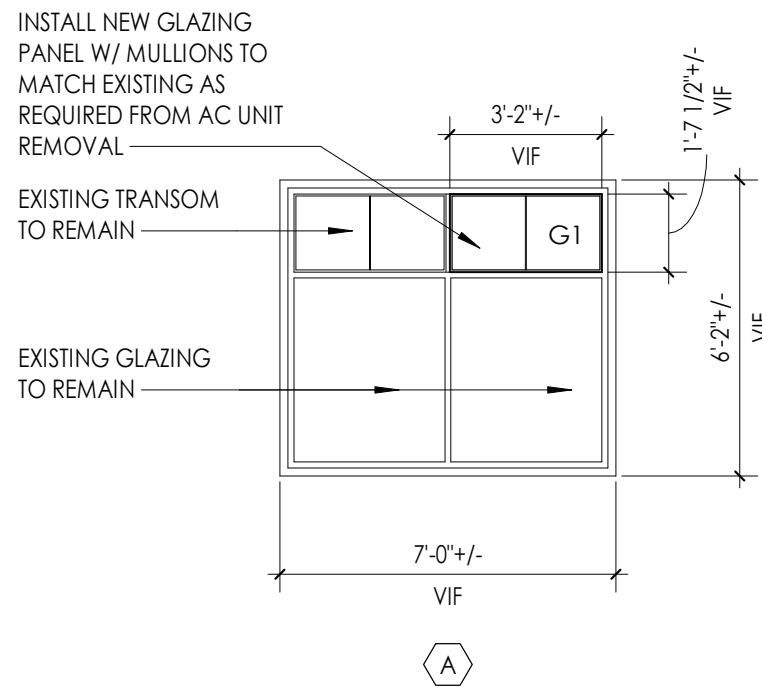
| DOOR SCHEDULE- NEW | | | | | | | | | | | | | | | | |
|--------------------|----------------------|---------------------|-------------|------------------------|--------|-----------|----------|------------|------------------|----------------|----------------|--------------|----------|----------|----------|-------------|
| DOOR | | ROOM NUMBER/NAME | DOOR PANELS | | | | | DOOR FRAME | | | | DOOR | | | | |
| DOOR NUMBER | FIRE RATING (MIN) | | PANEL TYPE | TOTAL PANEL DIMENSIONS | | | | FRAME TYPE | FRAME DIMENSIONS | | | FRAME FINISH | HEAD DTL | JAMB DTL | COMMENTS | DOOR NUMBER |
| | | | | WIDTH | HEIGHT | THICKNESS | UNDERCUT | | JAMB WIDTH | HEAD HEIGHT | FRAME DEPTH | | | | | |
| FINISH FIRST FLOOR | | | | | | | | | | | | | | | | |
| 13 | 45 | 13 CONF. | PNL-N-WD | 3'-0" | 6'-10" | 0'-1 3/4" | 0'-0" | FRM-00HM1 | 0'-2" | 0'-2" | 0'-5 3/4" | PNT | 6/A900 | 5/A900 | | 13 |
| 16 | 45 | 16 NURSE | PNL-G-WD | 3'-0" | 7'-0" | 0'-1 3/4" | 0'-0" | FRM-00HM1 | 0'-2" | 0'-2" | 0'-5 3/4" | PNT | 6/A900 | 5/A900 | | 16 |
| 16A | - | 16A TOILET | PNL-F-WD | 3'-0" | 7'-0" | 0'-1 3/4" | 0'-0" | FRM-00HM1 | 0'-2" | 0'-2" | 0'-5 3/4" | PNT | 8/A900 | 7/A900 | | 16A |
| 16B | - | 16B TEST/ISO. | PNL-F-WD | 3'-0" | 7'-0" | 0'-1 3/4" | 0'-0" | FRM-00HM1 | 0'-2" | 0'-2" | 0'-5 3/4" | PNT | 8/A900 | 7/A900 | | 16B |
| 38 | 45 | 38 AIDS OFFICE | PNL-F-WD | 3'-0" | 7'-0" | 0'-1 3/4" | 0'-0" | FRM-00HM1 | 0'-2" | 0'-2" | 0'-5 3/4" | PNT | 6/A900 | 5/A900 | | 38 |
| 38A | 45 | 38A TOILET | PNL-F-WD | 3'-0" | 7'-0" | 0'-1 3/4" | 0'-0" | FRM-00HM1 | 0'-2" | 0'-2" | 0'-5 3/4" | PNT | 6/A900 | 5/A900 | | 38A |
| 39 | - | 39 COACH OFFICE | PNL-F-WD | 3'-0" | 7'-0" | 0'-1 3/4" | 0'-0" | FRM-00HM1 | 0'-2" | 0'-2" | 0'-5 3/4" | PNT | 6/A900 | 5/A900 | | 39 |
| 40 | 45 | 40 TOILET | PNL-F-WD | 2'-8" | 7'-0" | 0'-1 3/4" | 0'-0" | FRM-00HM1 | 0'-2" | 0'-2" | 1'-0 7/8" | PNT | 4/A900 | 3/A900 | | 40 |

| DOOR SCHEDULE- ETR FRAMES | | | | | | | | | | | |
|---------------------------|-------------------|-------------------------------|-------------|------------------------|--------|-------------|----------|------------|--------------|----------|-------------|
| DOOR | | ROOM NUMBER/NAME | DOOR PANELS | | | | | DOOR FRAME | | DOOR | |
| DOOR NUMBER | FIRE RATING (MIN) | | PANEL TYPE | TOTAL PANEL DIMENSIONS | | | | FRAME TYPE | FRAME FINISH | COMMENTS | DOOR NUMBER |
| | | | | WIDTH | HEIGHT | THICKNESS | UNDERCUT | | | | |
| FINISH FIRST FLOOR | | | | | | | | | | | |
| 01 | 45 | 1 FIRST GRADE | PNL-N-WD | 3'-0" | 7'-0" | 0'-1 3/4" | 0'-0" | FRM-ETR | PNT | | 01 |
| 02 | 45 | 2 FIRST GRADE | PNL-N-WD | 3'-0" | 7'-0" | 0'-1 3/4" | 0'-0" | FRM-ETR | PNT | | 02 |
| 03 | 45 | 3 MAKERSPACE | PNL-N-WD | 3'-0" | 7'-0" | 0'-1 3/4" | 0'-0" | FRM-ETR | PNT | | 03 |
| 04 | 45 | 4 FIRST GRADE | PNL-N-WD | 3'-0" | 7'-0" | 0'-1 3/4" | 0'-0" | FRM-ETR | PNT | | 04 |
| 06 | 45 | 6 FIRST GRADE | PNL-N-WD | 3'-0" | 7'-0" | 0'-4 1/256" | 0'-0" | FRM-ETR | PNT | | 06 |
| 09 | 45 | 9 SERVER CL. | PNL-F-WD | 3'-0" | 7'-0" | 0'-1 3/4" | 0'-0" | FRM-ETR | PNT | | 09 |
| 15 | 45 | 15 FIRST GRADE | PNL-N-WD | 3'-0" | 7'-0" | 0'-1 3/4" | 0'-0" | FRM-ETR | PNT | | 15 |
| 15A | - | 15A FIRST GRADE TOILET ROOM | PNL-V1-WD | 2'-0" | 7'-0" | 0'-1 3/4" | 0'-0" | FRM-ETR | PNT | | 15A |
| 17 | 45 | 17 FIRST GRADE | PNL-N-WD | 3'-0" | 7'-0" | 0'-1 3/4" | 0'-0" | FRM-ETR | PNT | | 17 |
| 17A | - | 17A FIRST GRADE TOILET ROOM | PNL-V1-WD | 2'-0" | 7'-0" | 0'-1 3/4" | 0'-0" | FRM-ETR | PNT | | 17A |
| 19 | 45 | 19 FIRST GRADE | PNL-N-WD | 3'-0" | 7'-0" | 0'-1 3/4" | 0'-0" | FRM-ETR | PNT | | 19 |
| 19A | - | 19A FIRST GRADE TOILET ROOM | PNL-V1-WD | 2'-0" | 7'-0" | 0'-1 3/4" | 0'-0" | FRM-ETR | PNT | | 19A |
| 21 | 45 | 21 KINDERGARTEN | PNL-N-WD | 3'-0" | 7'-0" | 0'-1 3/4" | 0'-0" | FRM-ETR | PNT | | 21 |
| 21A | - | 21A KINDERGARTEN TOILET ROOM | PNL-V1-WD | 2'-0" | 7'-0" | 0'-1 3/4" | 0'-0" | FRM-ETR | PNT | | 21A |
| 24 | 45 | 24 KINDERGARTEN | PNL-N-WD | 3'-0" | 7'-0" | 0'-1 3/4" | 0'-0" | FRM-ETR | PNT | | 24 |
| 24A | - | 24A KINDERGARTEN TOILET ROOM | PNL-V1-WD | 2'-0" | 7'-0" | 0'-1 3/4" | 0'-0" | FRM-ETR | PNT | | 24A |
| 26 | 45 | 26 KINDERGARTEN | PNL-N-WD | 3'-0" | 7'-0" | 0'-1 3/4" | 0'-0" | FRM-ETR | PNT | | 26 |
| 26A | - | 26A KINDERGARTEN TOILET ROOM | PNL-V1-WD | 2'-0" | 7'-0" | 0'-1 3/4" | 0'-0" | FRM-ETR | PNT | | 26A |
| 30 | 45 | 30 KINDERGARTEN | PNL-N-WD | 3'-0" | 7'-0" | 0'-1 3/4" | 0'-0" | FRM-ETR | PNT | | 30 |
| 30A | - | 30A KINDERGARTEN TOILET ROOM | PNL-V1-WD | 2'-0" | 7'-0" | 0'-1 3/4" | 0'-0" | FRM-ETR | PNT | | 30A |
| 32 | 45 | 32 KINDERGARTEN | PNL-N-WD | 3'-0" | 7'-0" | 0'-1 3/4" | 0'-0" | FRM-ETR | PNT | | 32 |
| 32A | - | 32A KINDERGARTEN TOILET ROOM | PNL-V1-WD | 2'-0" | 7'-0" | 0'-1 3/4" | 0'-0" | FRM-ETR | PNT | | 32A |
| 32B | - | 32 KINDERGARTEN | PNL-N-WD | 3'-0" | 7'-0" | 0'-1 3/4" | 0'-0" | FRM-ETR | PNT | | 32B |
| 42 | 45 | 42 OFFICE | PNL-N-WD | 2'-8" | 7'-0" | 0'-1 3/4" | 0'-0" | FRM-ETR | PNT | | 42 |
| 50 | 45 | 50 J.C. | PNL-F-WD | 3'-0" | 7'-0" | 0'-1 3/4" | 0'-0" | FRM-ETR | PNT | | 50 |
| 52 | 45 | 52 CUSTODIAL | PNL-N-WD | 3'-0" | 7'-0" | 0'-1 3/4" | 0'-0" | FRM-ETR | PNT | | 52 |
| 57 | 45 | 57 SECOND GRADE | PNL-N-WD | 3'-0" | 7'-0" | 0'-1 3/4" | 0'-0" | FRM-ETR | PNT | | 57 |
| 59 | 45 | 59 SECOND GRADE | PNL-N-WD | 3'-0" | 7'-0" | 0'-1 3/4" | 0'-0" | FRM-ETR | PNT | | 59 |
| 61 | 45 | 61 FIRST GRADE | PNL-N-WD | 3'-0" | 7'-0" | 0'-1 3/4" | 0'-0" | FRM-ETR | PNT | | 61 |
| 62 | 45 | 62 MUSIC | PNL-N-WD | 3'-0" | 7'-0" | 0'-1 3/4" | 0'-0" | FRM-ETR | PNT | | 62 |
| 63 | 45 | 63 SECOND GRADE | PNL-N-WD | 3'-0" | 7'-0" | 0'-1 3/4" | 0'-0" | FRM-ETR | PNT | | 63 |
| 64 | 45 | 64 SECOND GRADE | PNL-N-WD | 3'-0" | 7'-0" | 0'-1 3/4" | 0'-0" | FRM-ETR | PNT | | 64 |
| 65 | 45 | 65 SECOND GRADE | PNL-N-WD | 3'-0" | 7'-0" | 0'-1 3/4" | 0'-0" | FRM-ETR | PNT | | 65 |
| 66 | 45 | 66 SECOND GRADE | PNL-N-WD | 3'-0" | 7'-0" | 0'-1 3/4" | 0'-0" | FRM-ETR | PNT | | 66 |
| 67 | 45 | 67 SECOND GRADE | PNL-N-WD | 3'-0" | 7'-0" | 0'-1 3/4" | 0'-0" | FRM-ETR | PNT | | 67 |
| 68 | 45 | 68 SECOND GRADE | PNL-N-WD | 3'-0" | 7'-0" | 0'-1 3/4" | 0'-0" | FRM-ETR | PNT | | 68 |
| 70 | 45 | 70 FIRST GRADE | PNL-N-WD | 3'-0" | 7'-0" | 0'-1 3/4" | 0'-0" | FRM-ETR | PNT | | 70 |
| 100 | 45 | 100 SPEC.ED. | PNL-N-WD | 3'-0" | 7'-0" | 0'-1 3/4" | 0'-0" | FRM-ETR | PNT | | 100 |
| 100A | - | 100A SPEC.ED. TOILET ROOM | PNL-V1-WD | 2'-0" | 7'-0" | 0'-1 3/4" | 0'-0" | FRM-ETR | PNT | | 100A |
| 104 | 45 | 104 KINDERGARTEN | PNL-N-WD | 3'-0" | 7'-0" | 0'-1 3/4" | 0'-0" | FRM-ETR | PNT | | 104 |
| 104A | - | 104A KINDERGARTEN TOILET ROOM | PNL-V1-WD | 2'-0" | 7'-0" | 0'-1 3/4" | 0'-0" | FRM-ETR | PNT | | 104A |
| 105 | 45 | 105 KINDERGARTEN | PNL-N-WD | 3'-0" | 7'-0" | 0'-1 3/4" | 0'-0" | FRM-ETR | PNT | | 105 |

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

SIGNAGE SCHEDULE

| ROOM NAME/NUMBER | DOOR NUMBER | TEXT | TYPE | COMMENTS |
|------------------|-------------|------------------|------|----------------------------|
| TOILET 16A | 16A | "GENDER NEUTRAL" | B | REFER TO PLAN FOR LOCATION |
| TEST/ISO. 16B | 16B | "ISOLATION ROOM" | A | REFER TO PLAN FOR LOCATION |
| ELL 37A | EXISTING | "ROOM 37A" | A | REFER TO PLAN FOR LOCATION |
| ELL 37B | EXISTING | "ROOM 37B" | A | REFER TO PLAN FOR LOCATION |
| AIDS OFFICE 38 | 38 | "AIDS OFFICE" | A | REFER TO PLAN FOR LOCATION |
| TOILET 38A | 38A | "GENDER NEUTRAL" | B | REFER TO PLAN FOR LOCATION |
| COACH OFFICE 39 | 39 | "ROOM 39" | A | REFER TO PLAN FOR LOCATION |
| STAFF LOUNGE 51 | EXISTING | "STAFF LOUNGE" | A | REFER TO PLAN FOR LOCATION |



DOOR AND FRAME NOTES

1. REFER TO A900S FOR DOOR & FRAME SCHEDULE
2. ALL FRAMES ARE TO RECEIVE FULL PERIMETER SEALANT, INTERIOR AND EXTERIOR
3. ALL DOOR AND WINDOW OPENING DIMENSIONS ARE TO BE VERIFIED IN FIELD AND COORDINATED WITH APPROVED SHOP DRAWINGS PRIOR TO FABRICATION.
4. 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 |

GLAZING TYPES

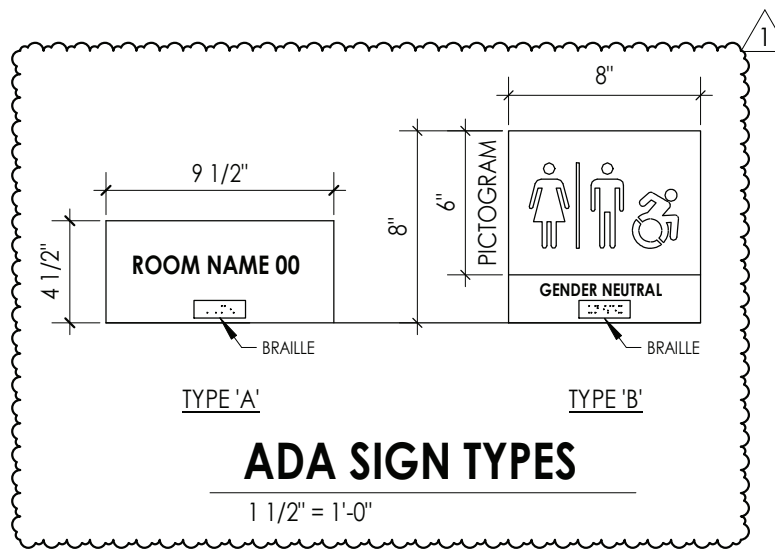
- G1 - INSULATED GLAZING
- G2 - FIRE RATED GLAZING
- G3 - TEMPERED GLAZING

DOOR FRAME TYPES

1/4" = 1'-0"

DOOR PANEL TYPES

1/4" = 1'-0"

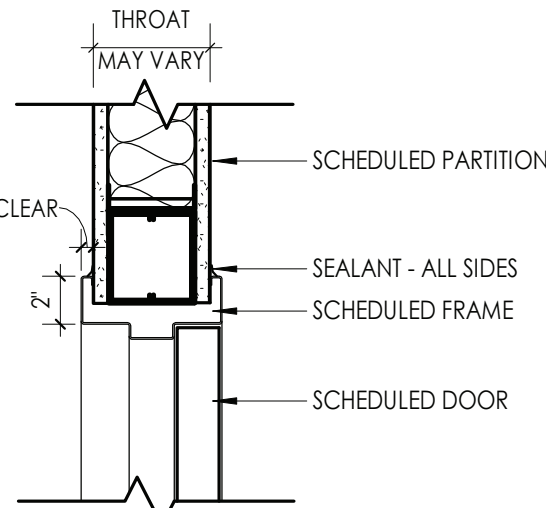


ADA SIGN TYPES

1 1/2" = 1'-0"

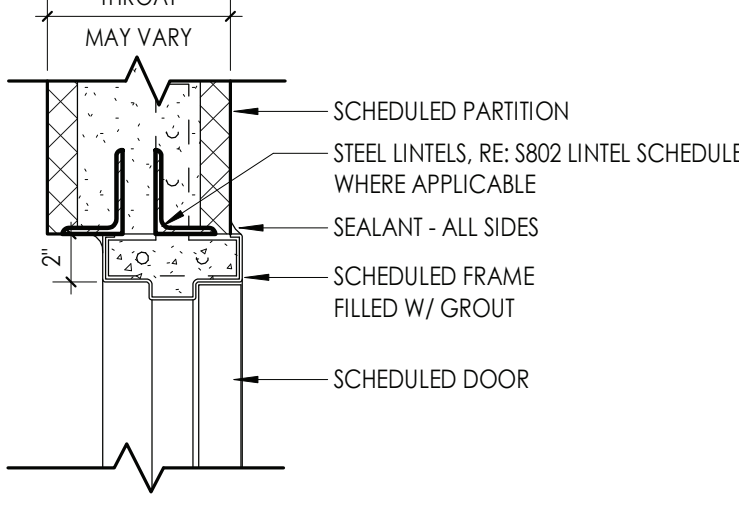
ADA SIGN LOCATION

1/4" = 1'-0"



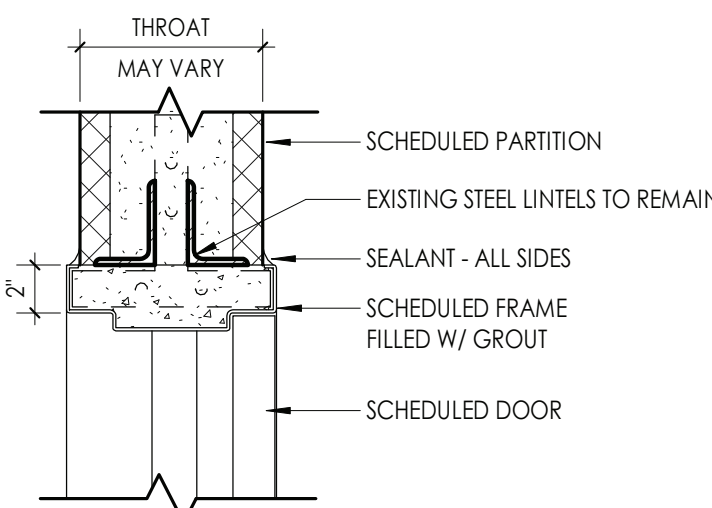
DOOR IN STUD - HEAD DETAIL

1 1/2" = 1'-0"



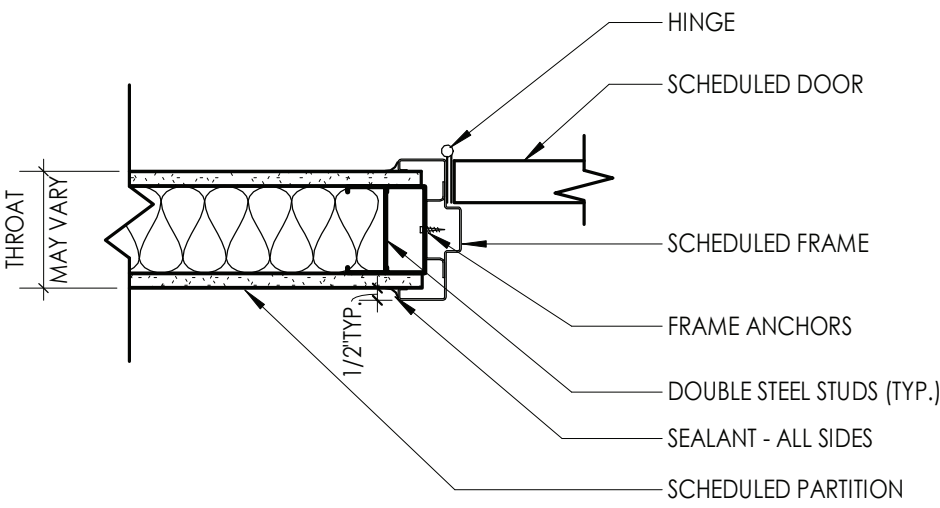
DOOR IN CMU - HEAD DETAIL

1 1/2" = 1'-0"



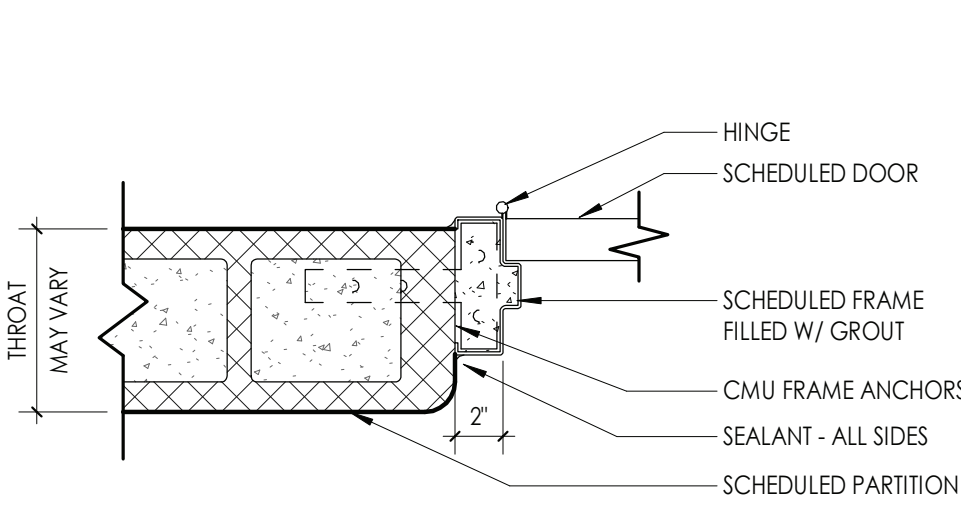
WRAPPED DOOR IN CMU - HEAD DETAIL

1 1/2" = 1'-0"



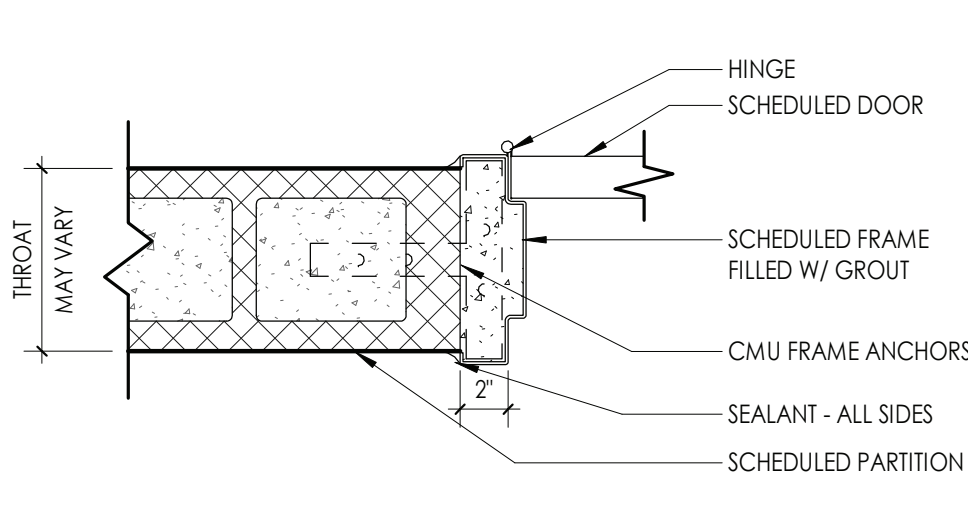
DOOR IN STUD - JAMB DETAIL

1 1/2" = 1'-0"



DOOR IN CMU - JAMB DETAIL

1 1/2" = 1'-0"

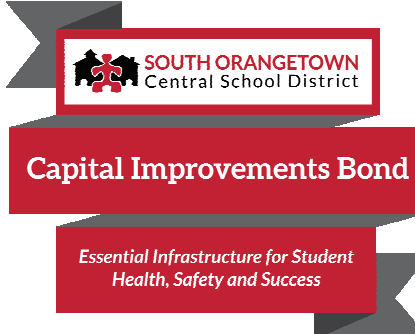
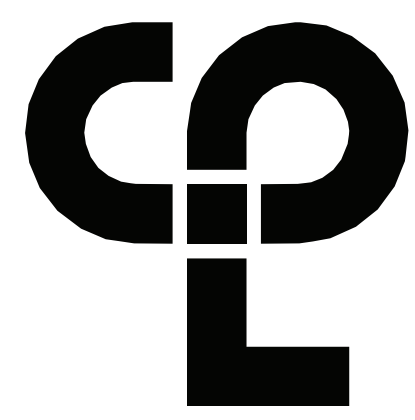


WRAPPED DOOR IN CMU - JAMB DETAIL

1 1/2" = 1'-0"

WINDOW GENERAL NOTES

1. COORDINATE ALL FRAME SIZES, TRIM EXTRUSIONS AND SILLS WITH WALL SECTIONS AND DETAILS.
2. ALL FRAMES ARE TO RECEIVE FULL PERIMETER SEALANT, INTERIOR AND EXTERIOR
3. ALL DOOR AND WINDOW DIMENSIONS ARE TO BE VERIFIED IN FIELD PRIOR TO FABRICATION.
4. REFER TO DIMENSION PLANS AND WALL SECTIONS FOR MULLION LAYOUT DIMENSIONS.



PROJECT INFORMATION

Project Number

14457.20

Client Name

SOUTH ORANGETOWN CENTRAL SCHOOL DISTRICT

Project Name

PHASE 1: 2022 BOND

District Office Address

160 VAN WYCK RD.
BLAUVELT, NY 10913

SOUTH ORANGETOWN CSD

- WILLIAM O. SCHAFER SED#35-03-01-06-0-010-2-019
- COTTAGE LANE ELEMENTARY SED#35-03-01-06-0-010-0-022
- TAPPAN ZEE HIGH SCHOOL SED#35-03-01-06-0-006-032
- WILLIAM O. SCHAFER SAL SED#35-03-01-06-0-010-2-020
- COTTAGE LANE SAL SED#35-03-01-06-0-010-0-023
- COTTAGE LANE LIBRARY SAL SED#35-03-01-06-0-023-002
- WOS OUTDOOR CLASSROOM SED#35-03-01-06-7-033-001
- SONNE OUTDOOR CLASSROOM SED#35-03-01-06-7-036-001
- CLE OUTDOOR CLASSROOM SED#35-03-01-06-7-034-001
- THS OUTDOOR CLASSROOM SED#35-03-01-06-7-033-001

PROJECT ISSUE & REVISION SCHEDULE

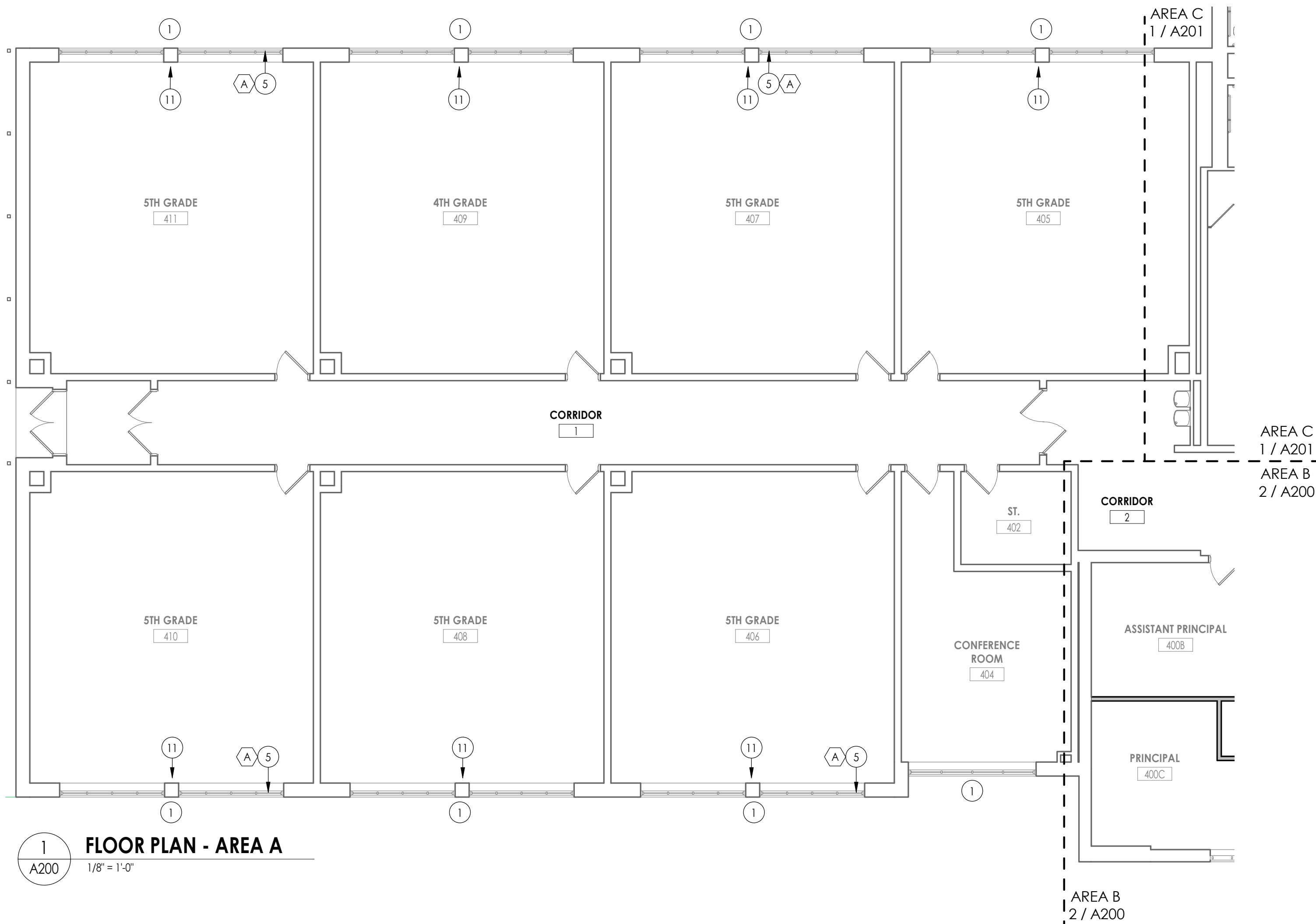
No. Date Description

1 11/17/23 BID ADDENDUM #4

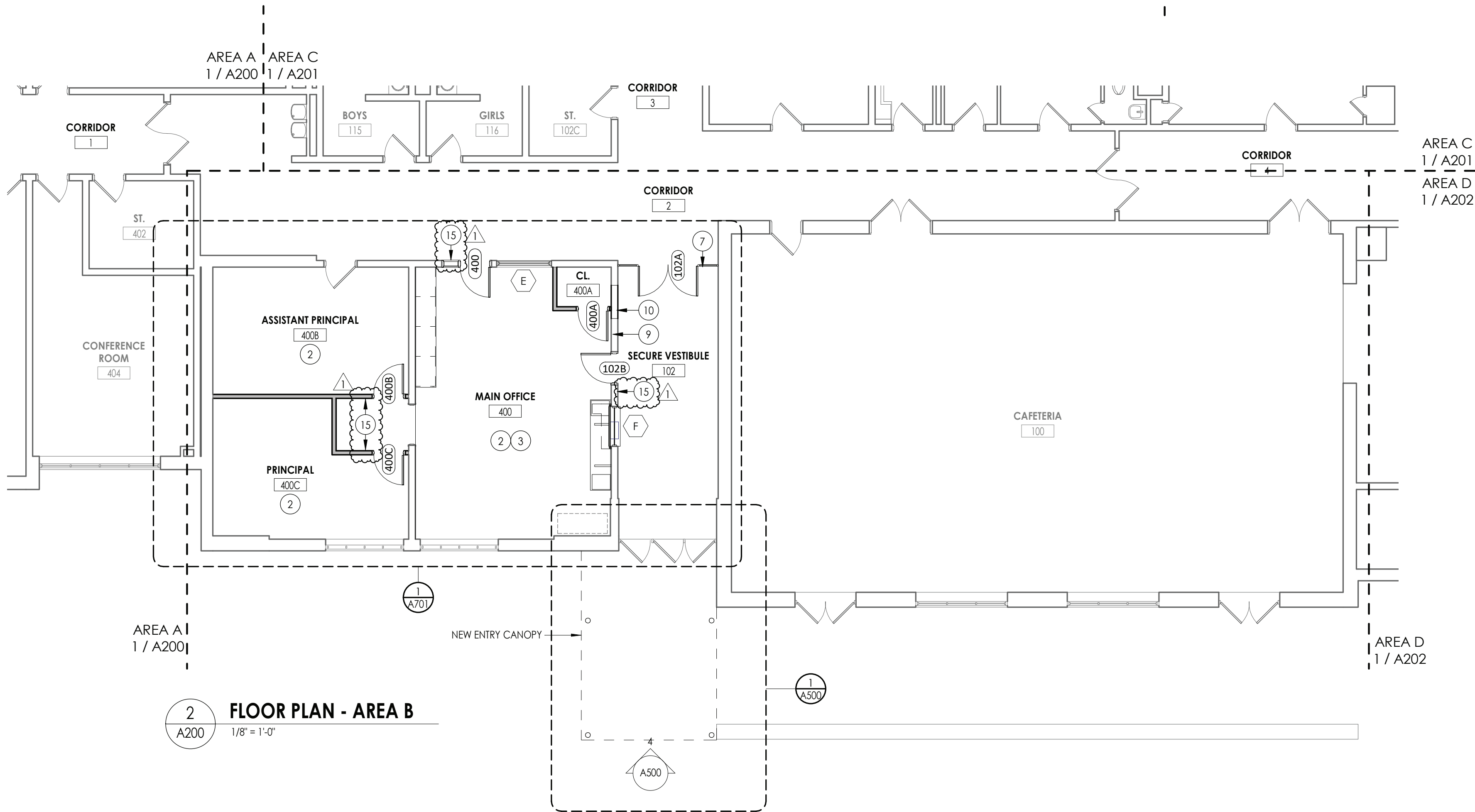
PROFESSIONAL STAMPS

NEW YORK STATE EDUCATION STATUTE

IF IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND THE COMMISSIONER'S REGULATION FOR ANY PERSON, UNDER ACTIVE STATUS, THE REGISTRATION OF A LICENSED ARCHITECT, ENGINEER OR LAND SURVEYOR, TO ACT AS AN ARCHITECT, ENGINEER OR LAND SURVEYOR, BEARING THE SEAL OF AN ARCHITECT, ENGINEER OR LAND SURVEYOR, IN THE ATTENDING PART SHALL BE A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND THE COMMISSIONER'S REGULATION FOR ANY PERSON, UNDER ACTIVE STATUS, THE REGISTRATION OF A LICENSED ARCHITECT, ENGINEER OR LAND SURVEYOR, TO ACT AS AN ARCHITECT, ENGINEER OR LAND SURVEYOR, BEARING THE SEAL OF AN ARCHITECT, ENGINEER OR LAND SURVEYOR, IN THE ATTENDING PART SHALL BE A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND THE COMMISSIONER'S REGULATION FOR ANY PERSON, UNDER ACTIVE STATUS, THE REGISTRATION OF A LICENSED ARCHITECT, ENGINEER OR LAND SURVEYOR, TO ACT AS AN ARCHITECT, ENGINEER OR LAND SURVEYOR, BEARING THE SEAL OF AN ARCHITECT, ENGINEER OR LAND SURVEYOR, IN THE ATTENDING PART SHALL BE A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND THE COMMISSIONER'S REGULATION FOR ANY PERSON, UNDER ACTIVE STATUS, THE REGISTRATION OF A LICENSED ARCHITECT, ENGINEER OR LAND SURVEYOR, TO ACT AS AN ARCHITECT, ENGINEER OR LAND SURVEYOR, BEARING THE SEAL OF AN ARCHITECT, ENGINEER OR LAND SURVEYOR, IN THE ATTENDING PART SHALL BE A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND THE COMMISSIONER'S REGULATION FOR ANY PERSON, UNDER ACTIVE STATUS, THE REGISTRATION OF A LICENSED ARCHITECT, ENGINEER OR LAND SURVEYOR, TO ACT AS AN ARCHITECT, ENGINEER OR LAND SURVEYOR, BEARING THE SEAL OF AN ARCHITECT, ENGINEER OR LAND SURVEYOR, IN THE ATTENDING PART SHALL BE A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND THE COMMISSIONER'S REGULATION FOR ANY PERSON, UNDER ACTIVE STATUS, THE REGISTRATION OF A LICENSED ARCHITECT, ENGINEER OR LAND SURVEYOR, TO ACT AS AN ARCHITECT, ENGINEER OR LAND SURVEYOR, BEARING THE SEAL OF AN ARCHITECT, ENGINEER OR LAND SURVEYOR, IN THE ATTENDING PART SHALL BE A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND THE COMMISSIONER'S REGULATION FOR ANY PERSON, UNDER ACTIVE STATUS, THE REGISTRATION



1
A200
1/8" = 1'-0"



2
A200
1/8" = 1'-0"

FLOOR PLAN GENERAL NOTES

- ALL DRAWINGS ARE GRAPHIC REPRESENTATION OF APPROXIMATE LOCATIONS OF EXISTING AND NEW MATERIALS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY ALL CONDITIONS PRIOR TO COMMENCEMENT OF WORK.
- 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.
- WORK AREAS SHALL BE MAINTAINED AND ALL WORK AREAS SHALL BE LEFT BROOMED CLEAN AT END OF EACH DAY.
- THE CONTRACTOR SHALL PROVIDE DUST CONTROL BARRIERS AT ALL AREAS OF CONSTRUCTION.
- 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.
- CONTRACTOR SHALL COORDINATE WITH OTHER TRADES FOR SEQUENCING OF WORK.

FLOOR PLAN LEGEND

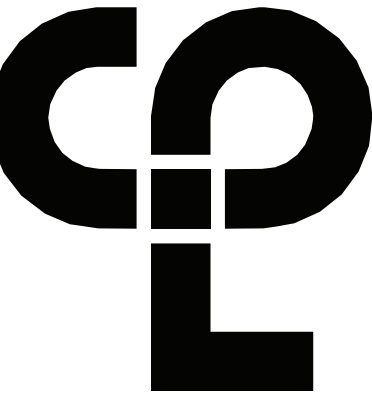
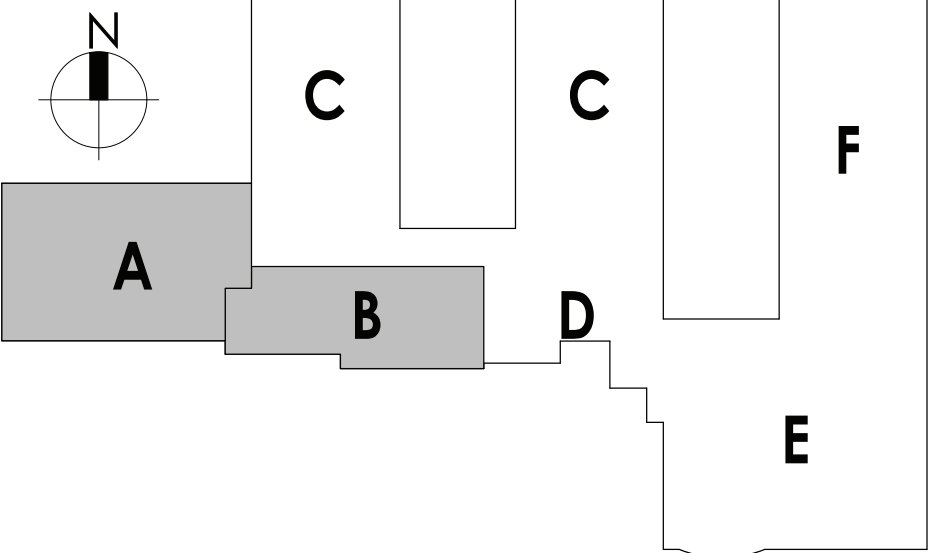
NOTE: THIS LEGEND MAY CONTAIN SYMBOLS THAT ARE NOT USED IN THIS PROJECT.

- | | | |
|--|--------------------------------------|-----------------------------|
| | DOOR | DOOR TARGET, SEE SCHEDULE |
| | WINDOW | WINDOW TARGET, SEE SCHEDULE |
| | COLUMN LINE IDENTIFICATION | |
| | ROOM NAME | ROOM TAG |
| | SECTION MARK | |
| | INTERIOR ELEVATION MARK | |
| | EXTERIOR ELEVATION MARK | |
| | DETAIL FOR REFERENCE MARK | |
| | DENOTES FINISH FLOOR GRADE ELEVATION | |
| | WALL TYPE SEE A/400 | |

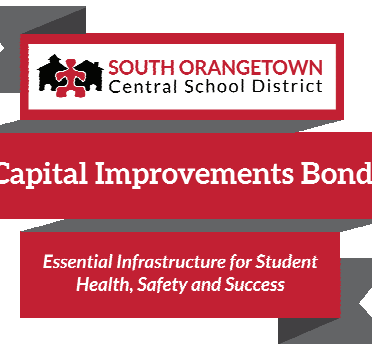
FLOOR PLAN KEY NOTES

- INFILL EXTERIOR MASONRY WALL AT DEMOLISHED UV LOCATIONS. REFER TO DETAIL 2/A810
- NEW VCT FLOORING & WALL BASE, FULL EXTENT OF ROOM
- NEW CASEWORK
- NEW SINK - REFER TO PLUMBING
- REPLACE WINDOW PANE W/ NEW GLAZING AT EXISTING AC OPENING
- INFILL DEMOLISHED DOOR OPENING W/ STUD WALL
- NEW STOREFRONT SYSTEM
- NEW METAL PAN STAIR & HANDRAIL
- FIRE RATED TRANSACTION WINDOW
- INFILL DEMOLISHED DOOR OPENING W/ CMU WALL
- ALTERNATE 2/ GC-02: INFILL DEMOLISHED UV LOCATION WITH NEW CASEWORK TO MATCH EXISTING. SEE DETAIL 5/A800
- INFILL CONCRETE FLOOR SLAB. REFER TO DETAIL
- PATCH WALL AS REQ'D AT DEMOLISHED SPLIT SYSTEM
- INFILL DEMOLISHED FIRE SHUTTER OPENING W/ STUD WALL
- PROVIDE ADA SIGNAGE. REFER TO CLE A900.

KEY PLAN:



CPL | Architecture Engineering Planning
50 Front Street Suite 202,
Newburgh, NY 12550
CPLteam.com



PROJECT INFORMATION

Project Number

14457.20

Client Name

SOUTH ORANGETOWN CENTRAL SCHOOL DISTRICT

Project Name

PHASE 1: 2022 BOND

District Office Address

160 VAN WYCK RD.
BLAUVELT, NY 10913

SOUTH ORANGETOWN CSD

- | | |
|--|-------------------------------|
| | WILLIAM O. SCHAEFER SED# |
| | COTTAGE LANE ELEMENTARY SED# |
| | TAPPAN ZEE HIGH SCHOOL SED# |
| | WILLIAM O. SCHAEFER SAL SED# |
| | COTTAGE LANE SAL SED# |
| | COTTAGE LANE LIBRARY SAL SED# |
| | WOS OUTDOOR CLASSROOM SED# |
| | TOWS OUTDOOR CLASSROOM SED# |
| | CLE OUTDOOR CLASSROOM SED# |
| | TWS OUTDOOR CLASSROOM SED# |

PROJECT ISSUE & REVISION SCHEDULE

| No. | Date | Description |
|-----|----------|-----------------|
| 1 | 11/17/23 | BID ADDENDUM #4 |

PROFESSIONAL STAMPS



NEW YORK STATE EDUCATION LAW

IF A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND THE COMMISSIONERS' REGULATIONS FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED ARCHITECT, ENGINEER OR LAND SURVEYOR, TO ACT AS SUCH IN ANY WAY, IN ANY FORM, BEARING THE SEAL OF AN ARCHITECT, ENGINEER OR LAND SURVEYOR, THE FOLLOWING PENALTY SHALL APPLY: (1) FINE FROM TEN THOUSAND DOLLARS TO FIFTY THOUSAND DOLLARS, OR (2) IMPRISONMENT FOR A TERM OF UP TO FIVE YEARS, OR (3) BOTH SUCH PENALTIES, AND A SPECIFIC DESCRIPTION OF THE VIOLATION.

SHEET INFORMATION

| | |
|--------------------------|--------------|
| Issued | Scale |
| 10/18/23 | As indicated |
| Project Status | |
| BID DOCUMENTS | |
| Drawn By | Checked By |
| LT | LT |
| Drawing Title | |
| NEW WORK PLAN - AREA A&B | |

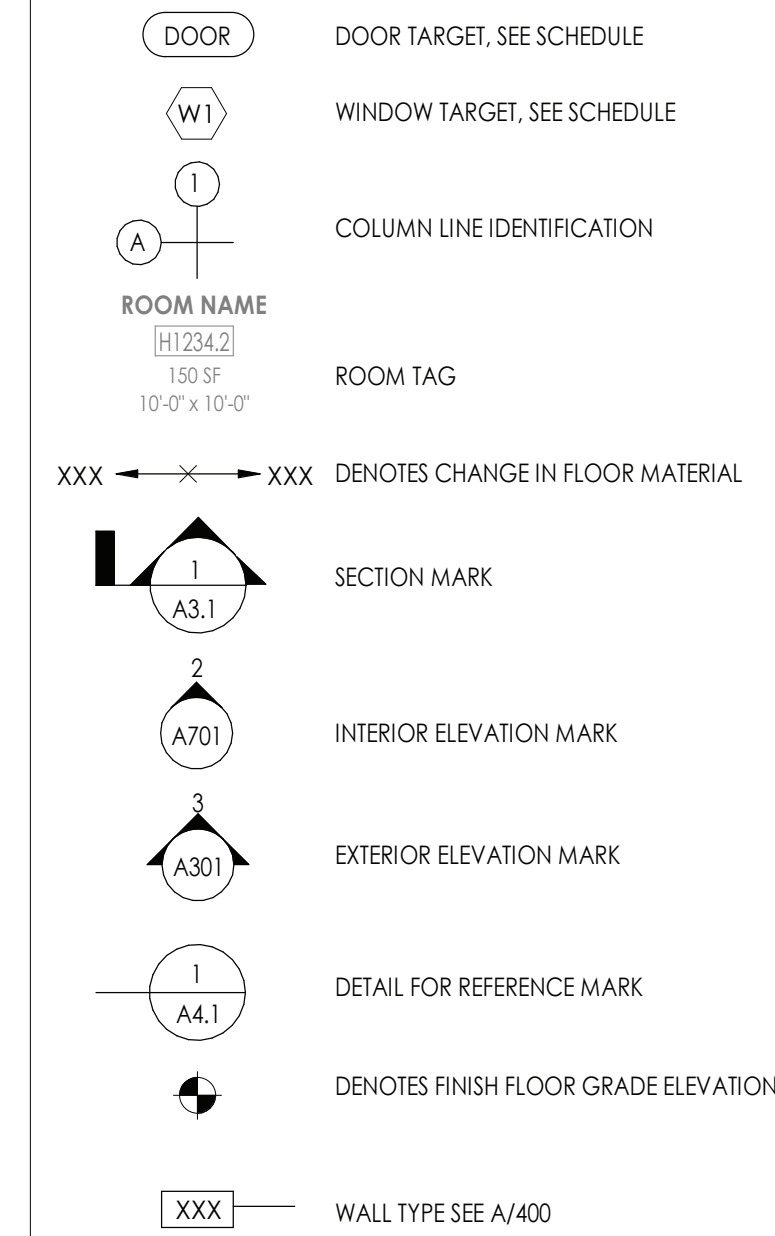
Drawing Number


**CLE
A200**

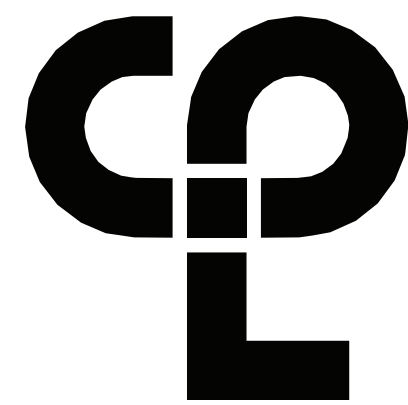
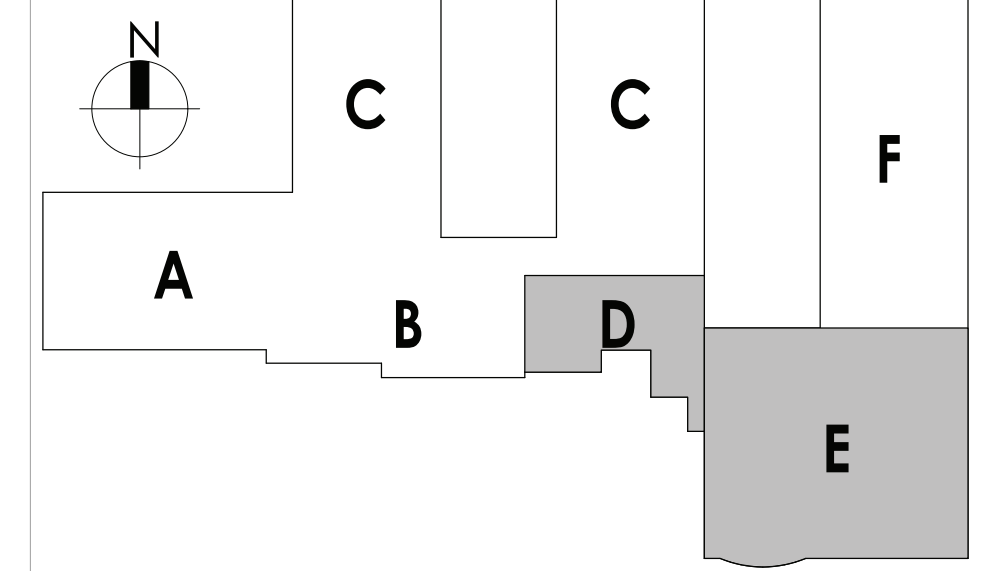


1. ALL DRAWINGS ARE GRAPHIC REPRESENTATION OF APPROXIMATE LOCATIONS OF EXISTING AND NEW MATERIALS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY ALL CONDITIONS PRIOR TO COMMENCEMENT OF WORK.
2. THE CONTRACTOR IS RESPONSIBLE FOR DAMAGE TO ANY EXISTING FINISHES AND EQUIPMENT NOT REMOVED UNDER THE 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. CONTRACTOR SHALL COORDINATE WITH OTHER TRADES FOR SEQUENCING OF WORK.

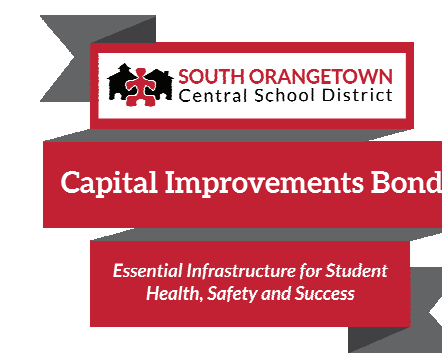
NOTE: THIS LEGEND MAY CONTAIN SYMBOLS THAT ARE NOT USED IN THIS PROJECT.



- ① INFILL EXTERIOR MASONRY WALL AT DEMOLISHED UV LOCATIONS. REFER TO DETAIL 2/A810
- ② NEW VCT FLOORING & WALL BASE, FULL EXTENT OF ROOM
- ③ NEW CASEWORK
- ④ NEW SINK - REFER TO PLUMBING
- ⑤ REPLACE WINDOW PANE W/ NEW GLAZING AT EXISTING AC OPENING
- ⑥ INFILL DEMOLISHED DOOR OPENING W/ STUD WALL
- ⑦ NEW STOREFRONT SYSTEM
- ⑧ NEW METAL PAN STAIR & HANDRAIL
- ⑨ FIRE RATED TRANSACTION WINDOW
- ⑩ INFILL DEMOLISHED DOOR OPENING W/ CMU WALL
- ⑪ ALTERNATE 2/ GC-02: INFILL DEMOLISHED UV LOCATION WITH NEW CASEWORK TO MATCH EXISTING. SEE DETAIL 5/A800
- ⑫ INFILL CONCRETE FLOOR SLAB. REFER TO DETAIL
- ⑬ PATCH WALL AS REQ'D AT DEMOLISHED SPLIT SYSTEM
- ⑭ INFILL DEMOLISHED FIRE SHUTTER OPENING W/ STUD WALL
- ⑮ PROVIDE ADA SIGNAGE. REFER TO CLE A900. 



CPL | Architecture Engineering Planning
50 Front Street Suite 202,
Newburgh, NY 12550
CPLteam.com



PROJECT INFORMATION

Project Number
14457.20
Client Name

**SOUTH ORANGETOWN CENTRAL
SCHOOL DISTRICT**

Project Name

PHASE 1: 2022 BOND

District Office Address
160 VAN WYCK RD.
BLAUVELT, NY 10913

SOUTH ORANGETOWN CSD

| | |
|-------------------------------|-----------------------|
| WILLIAM O. SCHAEFER SED# | 50-03-01-06-0-012-019 |
| COTTAGE LANE ELEMENTARY SED# | 50-03-01-06-0-010-020 |
| TAPPAN ZEE HIGH SCHOOL SED# | 50-03-01-06-0-006-032 |
| WILLIAM O. SCHAEFER S&L SED# | 50-03-01-06-0-012-020 |
| COTTAGE LANE S&L SED# | 50-03-01-06-0-010-023 |
| COTTAGE LANE LIBRARY S&L SED# | 50-03-01-06-0-023-002 |
| WOS OUTDOOR CLASSROOM SED# | 50-03-01-06-7-053-001 |
| SOMES OUTDOOR CLASSROOM SED# | 50-03-01-06-7-056-001 |
| CLE OUTDOOR CLASSROOM SED# | 50-03-01-06-7-054-001 |
| THS OUTDOOR CLASSROOM SED# | 50-03-01-06-7-055-001 |

PROJECT ISSUE & REVISION SCHEDULE

| No. | Date | Description |
|-----|----------|-----------------|
| 1 | 11/17/23 | BID ADDENDUM #4 |

PROFESSIONAL STAMPS

NEW YORK STATE EDUCATION STATEMENT

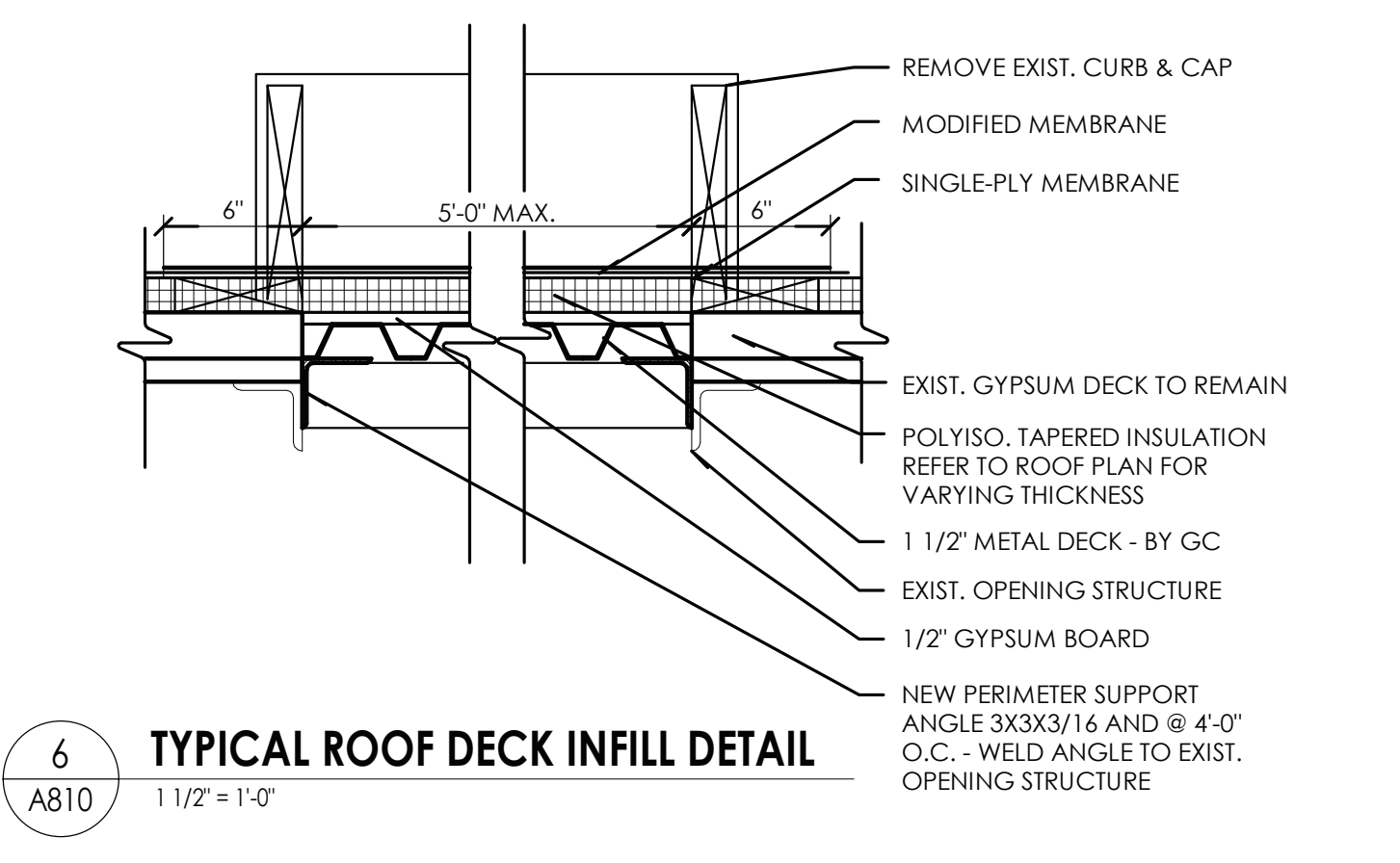
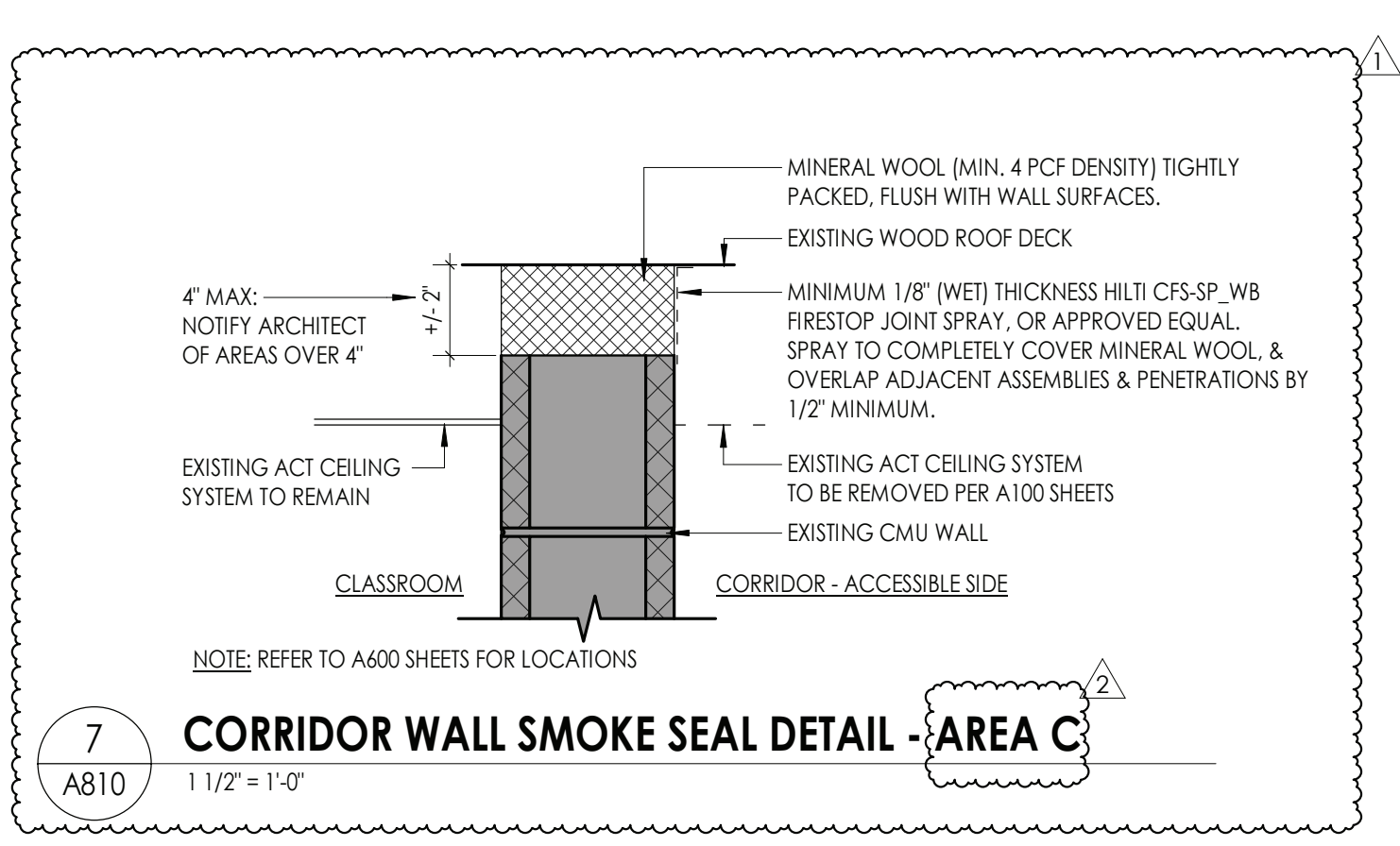
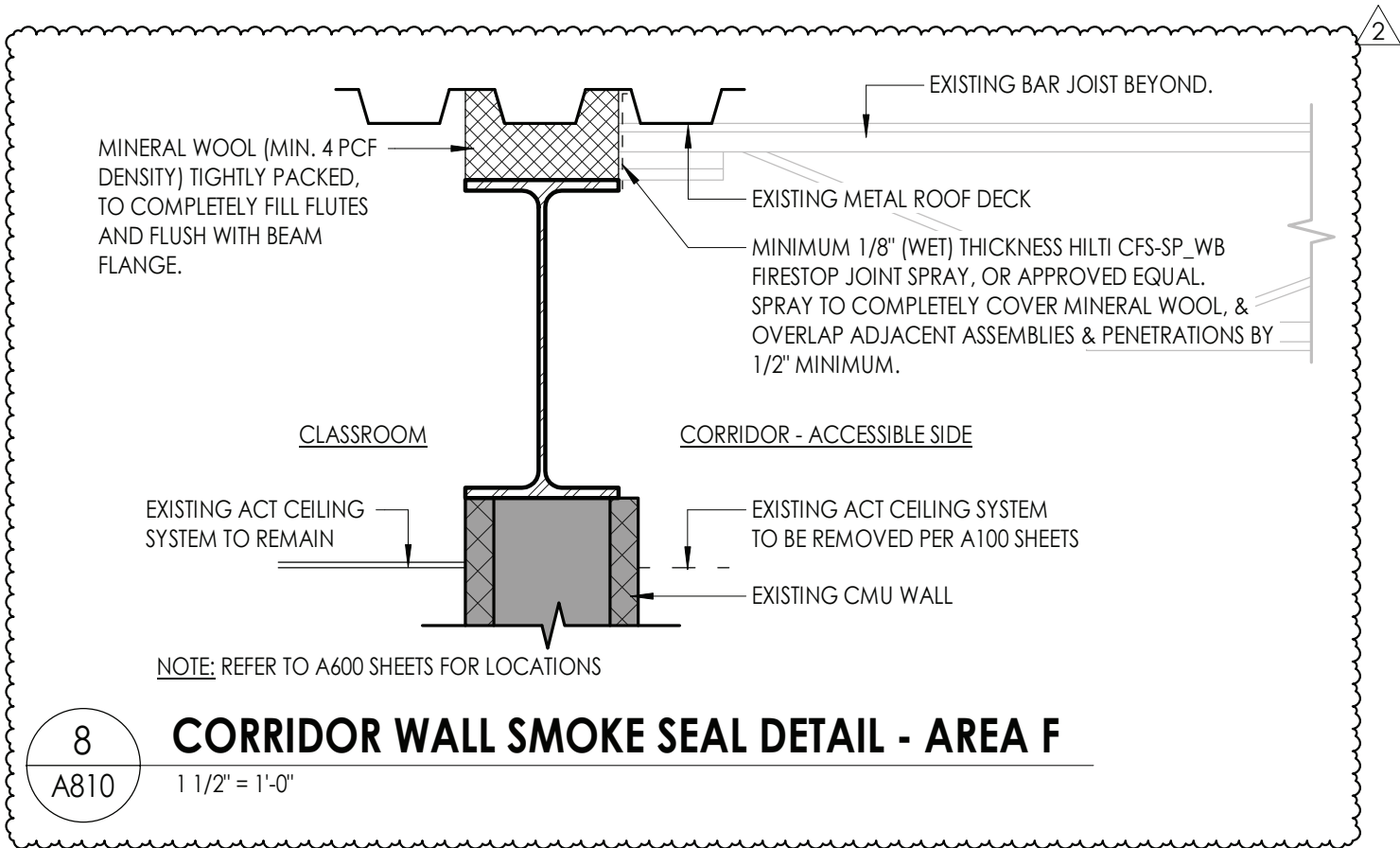
IF IT IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND THE COMMISSIONER'S REGULATIONS FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED ARCHITECT, ENGINEER OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY, IF AN ITEM BEARING THE SEAL OF AN ARCHITECT, ENGINEER OR SURVEYOR IS ALTERED, 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 ALTERATION.

SHEET INFORMATION

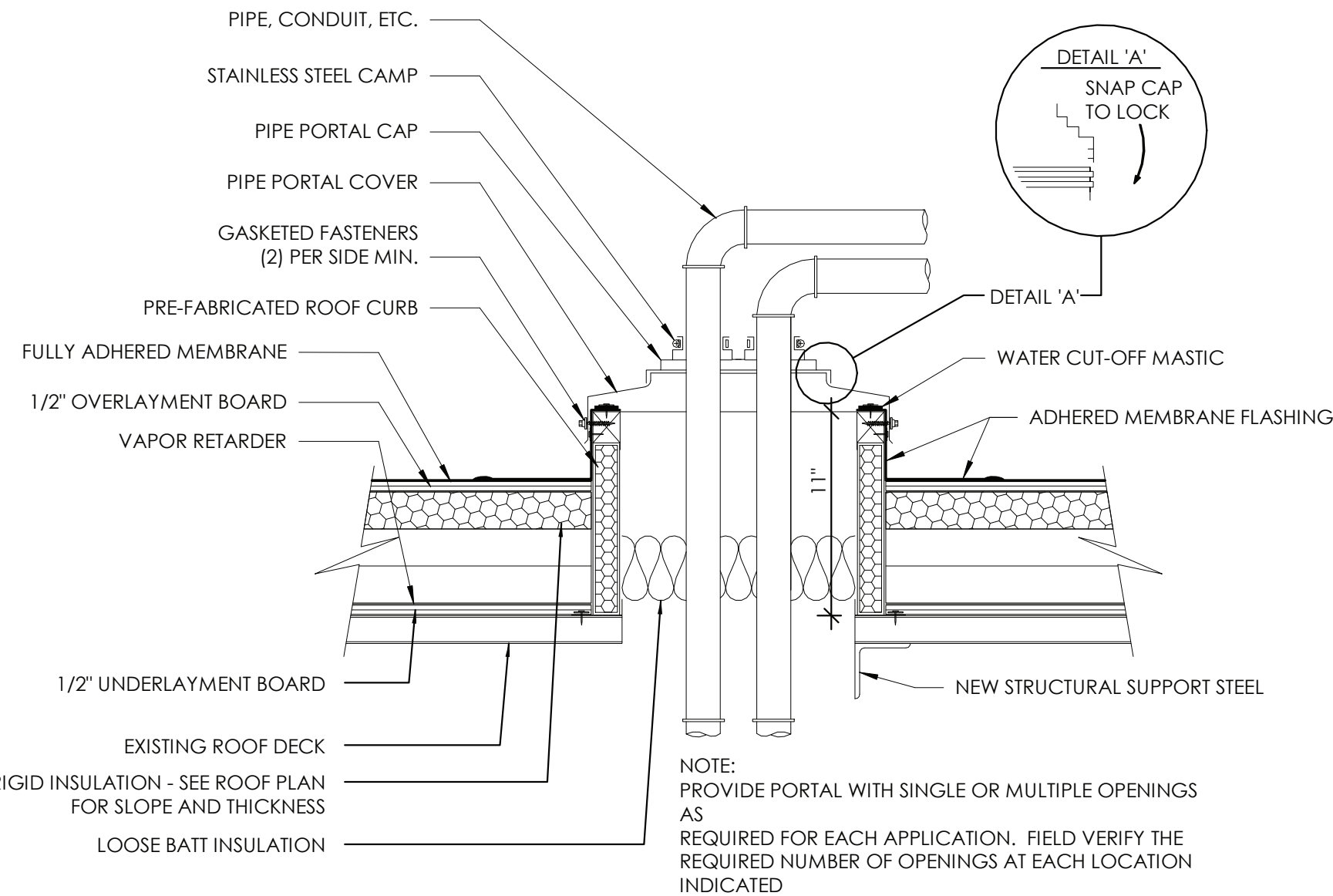
| | |
|--------------------------|--------------|
| Issued | Scale |
| 10/18/23 | As indicated |
| Project Status | |
| BID DOCUMENTS | |
| Drawn By | Checked By |
| LF | LT |
| Drawing Title | |
| NEW WORK PLAN - AREA D&E | |

Drawing Number

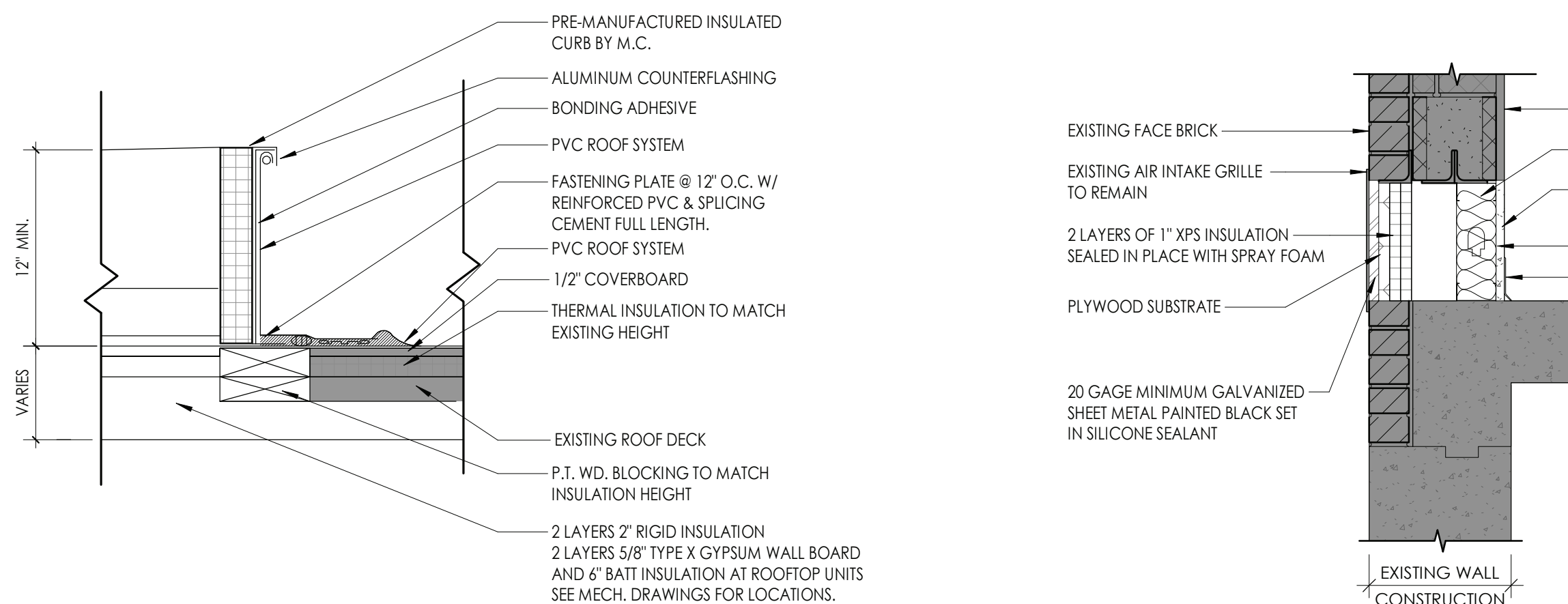
CLE
A202



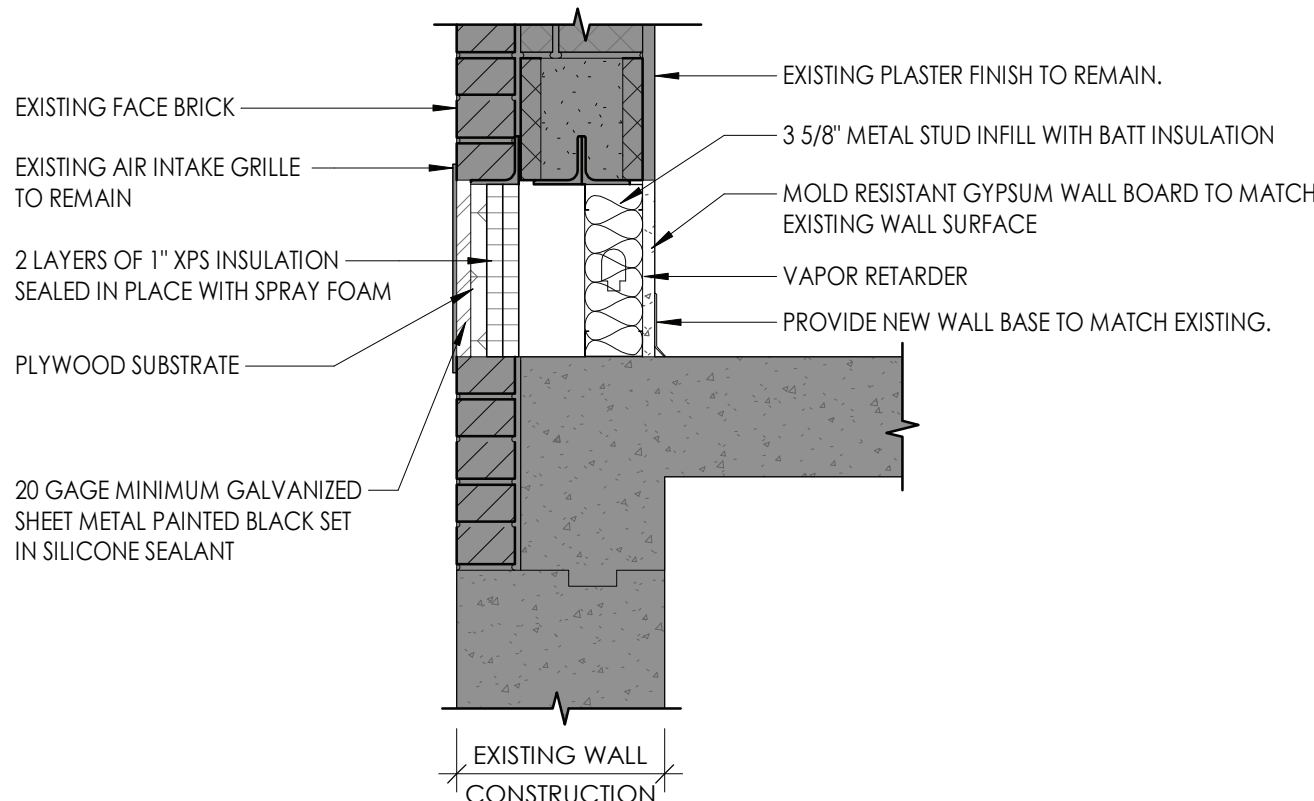
5 PIPE PORTAL DETAIL
1 1/2" = 1'-0"



4 SLAB INFILL DETAIL
3" = 1'-0"

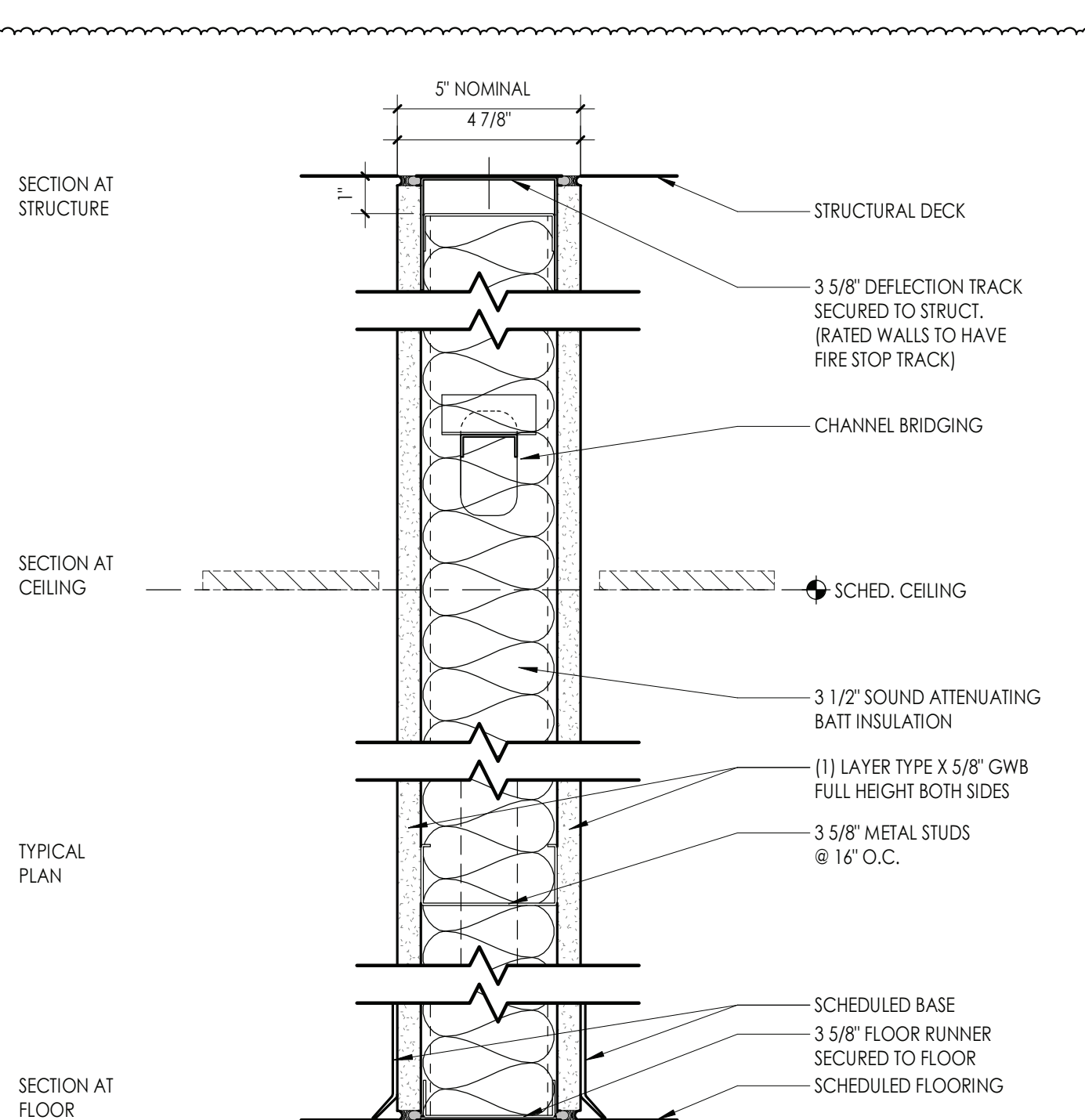


3 TYPICAL ROOF CURB DETAIL
1 1/2" = 1'-0"

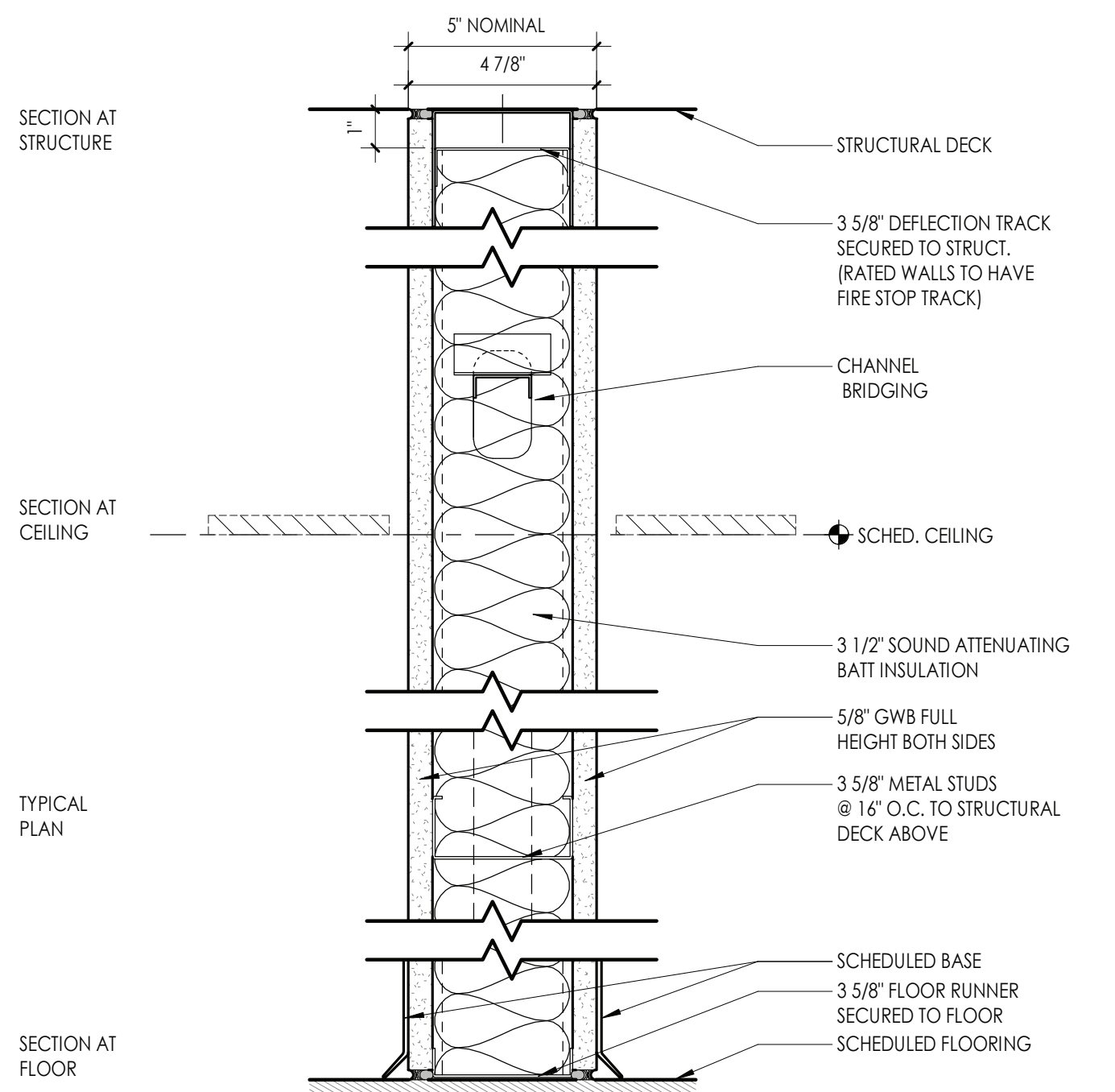


2 INFILL DETAIL
1" = 1'-0"

6 TYPICAL ROOF DECK INFILL DETAIL
1 1/2" = 1'-0"



| TYPE | STC TEST NUMBER &/OR FIRE TEST LAB DESIGN TEST NUMBER | FIRE RATING | STC | NOTES |
|------|---|----------------|-----|---|
| S3fr | NGC 2013004 UL # UL - U465 | 1HR | 46 | FIRE/ACOUSTICAL SEALANT AT TOP AND BOTTOM |

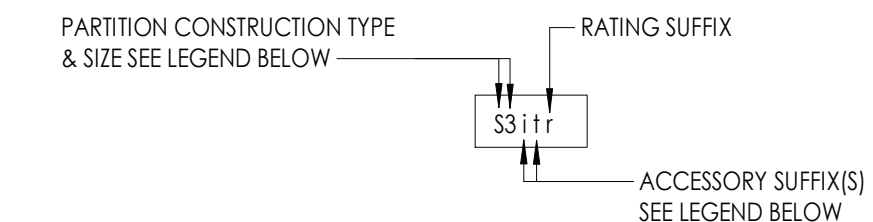


| TYPE | STC TEST NUMBER &/OR FIRE TEST LAB DESIGN TEST NUMBER | FIRE RATING | STC | NOTES |
|------|---|----------------|-----|--|
| S3i | NGC 2013004 | NR | 40 | SMOKE/ACOUSTICAL SEALANT AT TOP AND BOTTOM |

PARTITION GENERAL NOTES

- ALL WALL TYPES MAY NOT BE USED ON THIS PROJECT.
- UNLESS NOTED OTHERWISE ALL PARTITIONS ARE FULL HEIGHT, EXTEND & SECURE TO UNDERSIDE OF CONCRETE OR METAL DECK ABOVE.
- PROVIDE UL APPROVED JOINT AT ALL TOP OF WALL AND WALL TO WALL CONDITIONS AT ALL RATED WALLS.
- PROVIDE DEFLECTION TRACKS AT METAL STUD PARTITIONS THAT TERMINATE AT THE UNDERSIDE OF STRUCTURE AND DECK.
- REFER TO CODE/LIFE SAFETY DRAWINGS FOR RATED PARTITIONS AND UL ASSEMBLIES.
- REFER TO INTERIOR DRAWINGS FOR LOCATIONS OF WALL TILE, AND OTHER SPECIALTY WALL FINISHES. PROVIDE 5/8\"/>
- PROVIDE MOISTURE RESISTANT GYP. BD. AT ALL TOILET ROOMS, JANITOR'S CLOSETS AND OTHER WET LOCATIONS WHERE TILE AND TILE BACKER BOARD ARE NOT INSTALLED.
- PARTITION TYPES WITH ONE SIDE OF DOUBLE DRYWALL TO BE PLACED SO THAT THE DOUBLE SIDE IS ON CORRIDOR AND/OR HIGH TRAFFIC SIDE OF WALL.
- REFER TO SPECIFICATIONS FOR METAL STUD GAUGE REQUIREMENTS.
- COORDINATE ALL PARTITION ACCESSORIES (APPLIED FINISHES, RESILIENT CHANNEL, ADDITIONAL LAYERS OF SHEATHING, SHIELDING, ETC.) ITEMS SHOWN IN TYPICAL WALL CONSTRUCTION DETAILS MAY HAVE TO BE ARRANGED ON DIFFERENT SIDES OF WALL ASSEMBLY TO ACHIEVE FLUSH CONTINUOUS WALL SURFACES. ANY CONFLICTS SHOULD BE BROUGHT TO THE ATTENTION OF THE ARCHITECT.
- FIRESTOP/ SMOKE STOP ALL REQUIRED WALL PARTITIONS, SLABS, AND PENETRATIONS THROUGH NEW AND EXISTING WALLS WITHIN THE PROJECT LIMITS IN COORDINATION WITH CODE PLAN, OR WHERE COORDINATED SYSTEMS CONNECTION POINTS ARE LOCATED OUTSIDE THE PROJECT LIMIT AREA. SEE ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING DRAWINGS AND SPECIFICATION DIVISION
- NOTIFY OWNER AND ARCHITECT IF EXISTING NON-COMPLIANT PENETRATIONS ARE DISCOVERED NOT FIRESTOPPED IN COORDINATION WITH CODE PLAN.
- PROVIDE CONTROL JOINT WHERE NEW PARTITIONS BUTT EXISTING CONSTRUCTION.
- PROVIDE CONTROL JOINTS A MAXIMUM OF 30'-0\"/>
- PROVIDE SUPPORT BLOCKING AND STRAPPING FOR ALL MILLWORK, CASEWORK, AND WALL MOUNTED ACCESSORIES.

PARTITION TYPE TAG LEGEND

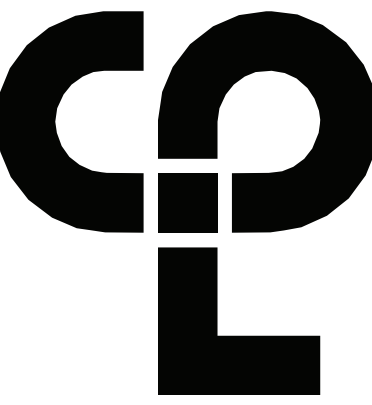


PARTITION CONSTRUCTION TYPE & SIZE LEGEND

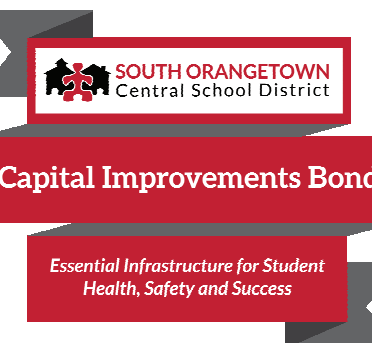
| | |
|---|--|
| S# STEEL STUDS FINISH BOTH SIDES <ul style="list-style-type: none">1 = 1 5/8\" C STUD2 = 2 1/2\" C STUD3 = 3 5/8\" C STUD4 = 4\" C STUD6 = 6\" C STUD8 = 8\" C STUD | M# CONCRETE MASONRY UNIT <ul style="list-style-type: none">4 = 4\" NOMINAL CMU6 = 6\" NOMINAL CMU8 = 8\" NOMINAL CMU10 = 10\" NOMINAL CMU12 = 12\" NOMINAL CMU |
| FR STEEL STUD FURRING FINISH ONE SIDE <ul style="list-style-type: none">1 = 1 5/8\" C STUD2 = 2 1/2\" C STUD3 = 3 5/8\" C STUD4 = 4\" C STUD6 = 6\" C STUD8 = 8\" C STUD | A APPLIED FINISH NON SELF SUPPORTING/ATTACHED TO OTHER STRUCTURE |
| WH STEEL STUD SHAFT WALL ASSEMBLY FINISH ONE SIDE <ul style="list-style-type: none">2 = 2 1/2\" CH SHAFT WALL STUD4 = 4\" CH SHAFT WALL STUD6 = 6\" CH SHAFT WALL STUD | C# RESILIENT CHANNEL NON SELF SUPPORTING/ATTACHED TO OTHER STRUCTURE <ul style="list-style-type: none">1 = 1/2\" RC-1 RESILIENT CHANNEL2 = 1/2\" RC-2 RESILIENT CHANNEL |
| B# CONSTRUCTION BARRIER/TEMP WALL <ul style="list-style-type: none">1 = 1 5/8\" C STUD2 = 2 1/2\" C STUD3 = 3 5/8\" C STUD4 = 4\" C STUD6 = 6\" C STUD8 = 8\" C STUD | H# HAT CHANNEL NON SELF SUPPORTING/ATTACHED TO OTHER STRUCTURE <ul style="list-style-type: none">1 = 7/8\" HAT CHANNEL2 = 1 1/2\" HAT CHANNEL |
| | Z# ZEE-FURRING NON SELF SUPPORTING/ATTACHED TO OTHER STRUCTURE <ul style="list-style-type: none">1 = 1\" ZEE FURRING1.5 = 1 1/2\" ZEE FURRING2 = 2\" ZEE FURRING2.5 = 2 1/2\" ZEE FURRING3 = 3\" ZEE FURRING |

PARTITION TYPE SUFFIX

- ACCESSORIES SUFFIX:**
- i - SOUND ATTENUATING BATT INSULATION (FIBERGLASS) FRICTION FIT BETWEEN STUDS TO FILL CAVITY
 - w - SOUND ATTENUATING FIRE BATT INSULATION (ROCK WOOL) FRICTION FIT BETWEEN STUDS TO FILL CAVITY
 - t - CERAMIC WALL TILE (1) SIDE W/ THINSET MORTAR BED, 5/8\"/>
 - h - CERAMIC WALL TILE (2) SIDES W/ THINSET MORTAR BED, 5/8\"/>
 - b - INTERIOR VENEER MASONRY (STONE APPLIED FINISH, REFER TO DETAILS FOR CONSTRUCTION, AND INTERIOR ELEVATIONS FOR EXTENTS
 - g - CMU WALL GROUT CORES SOLID
 - s - ADD 1/2\"/>
 - k - ADD ADDITIONAL (1) LAYER OF 5/8\"/>
 - kk - ADD ADDITIONAL (2) LAYERS OF 5/8\"/>
 - e - ADD ADDITIONAL (1) LAYER OF 5/8\"/>
 - y - SUBSTITUTE (1) LAYER OF 5/8\"/>
 - vv - SUBSTITUTE 5/8\"/>
 - p - LEAD SHIELDING REFER TO PHYSICIST REPORT FOR REQUIREMENTS
 - x - COPPER MAGNETIC/RF SHIELDING REFER TO PHYSICIST REPORT FOR REQUIREMENTS
 - c - WALL FINISH TO TERMINATE 6\"/>
 - y - WALL STRUCTURE TERMINATES 12\"/>
 - n - KNEE WALL, REFER TO INTERIOR ELEVATIONS FOR HEIGHT & SILL CONDITION, REFER TO STRUCTURAL DETAILS FOR REQUIRED SUPPLEMENTAL STEEL AND ANCHORING REQUIREMENTS
- RATING SUFFIX:**
- f - 1 HR RATED ASSEMBLY REFER TO UL DETAILS FOR RATED CONSTRUCTION REQUIREMENTS
 - d - 2 HR RATED ASSEMBLY REFER TO UL DETAILS FOR RATED CONSTRUCTION REQUIREMENTS



CPL | Architecture Engineering Planning
50 Front Street Suite 202,
Newburgh, NY 12550
CPLteam.com



PROJECT INFORMATION

Project Number
14457.20
Client Name
SOUTH ORANGETOWN CENTRAL SCHOOL DISTRICT
Project Name
PHASE 1: 2022 BOND

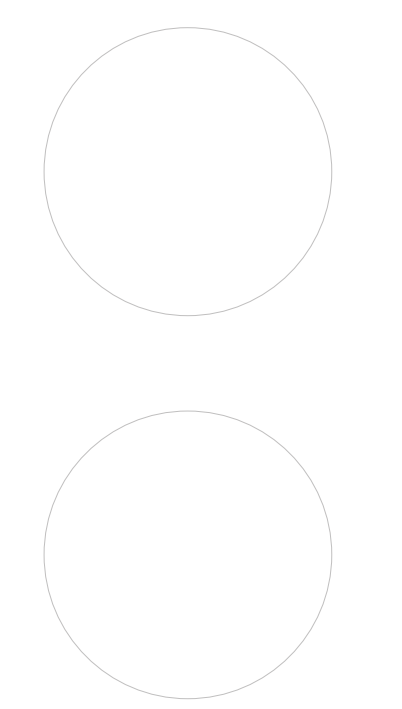
District Office Address
160 VAN DYCK RD.
BLAUVELT, NY 10913

| | |
|--------------------------|--|
| SOUTH ORANGETOWN CSD | |
| <input type="checkbox"/> | WILLIAM O. SCHAEFER SED# 50-03-01-06-0-010-2-019 |
| <input type="checkbox"/> | COTTAGE LAKE ELEMENTARY SED# 50-03-01-06-0-010-0-022 |
| <input type="checkbox"/> | TAPPAN ZEE HIGH SCHOOL SED# 50-03-01-06-0-004-032 |
| <input type="checkbox"/> | WILLIAM O. SCHAEFER SAL SED# 50-03-01-06-0-010-2-020 |
| <input type="checkbox"/> | COTTAGE LAKE SAL SED# 50-03-01-06-0-010-0-023 |
| <input type="checkbox"/> | COTTAGE LAKE LIBRARY SAL SED# 50-03-01-06-0-023-002 |
| <input type="checkbox"/> | WCS OUTDOOR CLASSROOM SED# 50-03-01-06-7-033-001 |
| <input type="checkbox"/> | SONNE OUTDOOR CLASSROOM SED# 50-03-01-06-7-034-001 |
| <input type="checkbox"/> | CLE OUTDOOR CLASSROOM SED# 50-03-01-06-7-034-001 |
| <input type="checkbox"/> | 1745 OUTDOOR CLASSROOM SED# 50-03-01-06-7-035-001 |

PROJECT ISSUE & REVISION SCHEDULE

| No. | Date | Description |
|-----|----------|-----------------|
| 1 | 11/09/23 | BID ADDENDUM #3 |
| 2 | 11/17/23 | BID ADDENDUM #4 |

PROFESSIONAL STAMPS



NEW YORK STATE EDUCATION LAW AND THE COMMISSIONER'S REGULATION FOR ANY PERSON, UNDER ACTING UNDER THE REGULATION OF A LICENSED ARCHITECT, ENGINEER OR LAND SURVEYOR, TO ACT AS SUCH IN ANY WAY, IF ANY, BEARING THE SEAL OF AN ARCHITECT, ENGINEER OR LAND SURVEYOR, WITHOUT THE SIGNATURE OF THE ARCHITECT, ENGINEER OR LAND SURVEYOR, AND THE SIGNATURE OF THE ARCHITECT, ENGINEER OR LAND SURVEYOR, AND THE DATE OF SUCH ADOPTION, AND A SPECIFIC DESCRIPTION OF THE ADOPTION.

SHEET INFORMATION

Issued
10/18/23
Scale
As indicated
Project Status
BID DOCUMENTS
Drawn By
Author
Checked By
Checker
Drawing Title
WALL TYPES & MISC. DETAILS

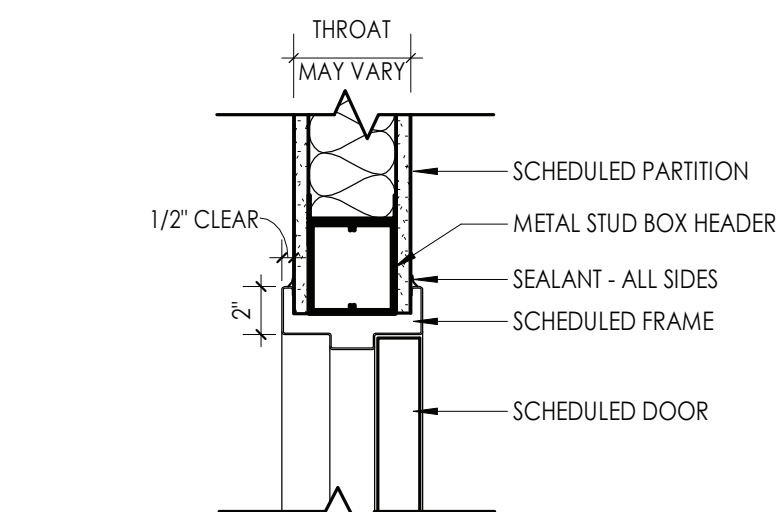
CLE
A810

\\project\location> REVIT PROJECT FILES\ON BIM360 11/15/2023 2:43:00 PM

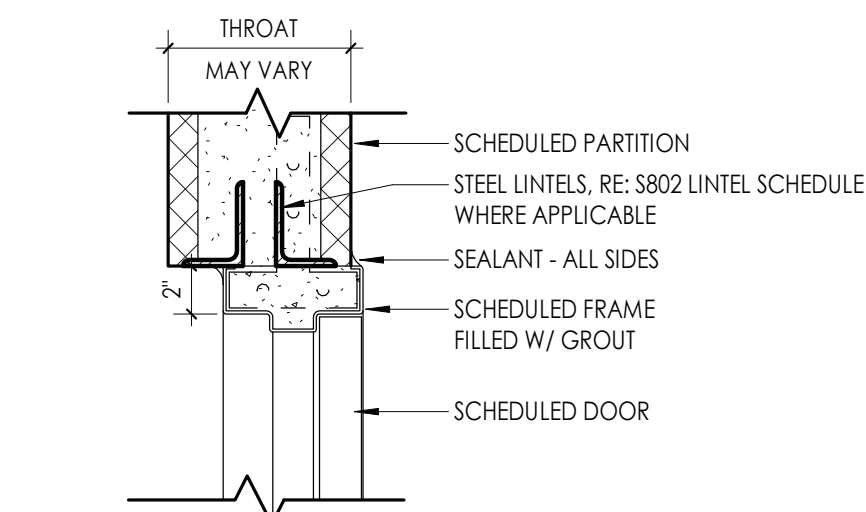
| DOOR SCHEDULE- NEW | | | | | | | | | | | | | | | | | | | | |
|--------------------|-------------------|--------------------------|-------------|-----------|-------------------------|---------|------------------------|--------|-----------|--------------|------------------|-------------|-------------|--------------|----------|----------|-----------------|-------------|------|--|
| | | ROOM NUMBER/NAME | DOOR PANELS | | | | | | | DOOR FRAME | | | | | DOOR | | | | | |
| DOOR NUMBER | FIRE RATING (MIN) | | PANEL TYPE | | SINGLE PANEL DIMENSIONS | | TOTAL PANEL DIMENSIONS | | | FRAME TYPE | FRAME DIMENSIONS | | | FRAME FINISH | HEAD DTL | JAMB DTL | COMMENTS | DOOR NUMBER | | |
| | | | PANEL 1 | PANEL 2 | WIDTH | | WIDTH | HEIGHT | THICKNESS | | JAMB WIDTH | HEAD HEIGHT | FRAME DEPTH | | | | | | | |
| | | | | | PANEL 1 | PANEL 2 | | | | | | | | | | | | | | |
| FINISH FIRST FLOOR | | | | | | | | | | | | | | | | | | | | |
| 102A | | 102 SECURE VESTIBULE | PNL-G2-AL | PNL-G2-AL | 3'-0" | 3'-0" | 6'-0" | 7'-0" | 0'-1 3/4" | FRM-00AL(CW) | 0'-0" | 0'-0" | 0'-0" | MFR | 7/A900 | 8/A900 | REFER TO CW1 | | 102A | |
| 102B | 45 | 400 MAIN OFFICE | PNL-N-WD | | 3'-0" | | 3'-0" | 7'-0" | 0'-1 3/4" | FRM-00HM1 | 0'-2" | 0'-2" | 0'-8 7/8" | PNT | 5/A900 | 6/A900 | | | 102B | |
| 201B | 45 | 201B I.T. | PNL-F-WD | | 3'-0" | | 3'-0" | 7'-0" | 0'-1 3/4" | FRM-00HM1 | 0'-2" | 0'-2" | 0'-8 7/8" | PNT | 5/A900 | 6/A900 | | | 201B | |
| 202A | 45 | 202A RESOURCE ROOM | PNL-N-WD | | 3'-0" | | 3'-0" | 7'-0" | 0'-1 3/4" | FRM-00HM1 | 0'-2" | 0'-2" | 0'-5 3/4" | PNT | 1/A900 | 2/A900 | | | 202A | |
| 300D | -- | 300D ST. | PNL-F-WD | | 3'-0" | | 3'-0" | 7'-0" | 0'-1 3/4" | FRM-00HM1 | 0'-2" | 0'-2" | 0'-7 7/8" | PNT | 5/A900 | 6/A900 | ALTERNATE GC-05 | | 300D | |
| 300E | -- | 300E ST. | PNL-F-WD | PNL-F-WD | 2'-10" | 2'-10" | 5'-8" | 7'-0" | 0'-1 3/4" | FRM-00HM1 | 0'-2" | 0'-2" | 0'-8 3/4" | PNT | 3/A900 | 4/A900 | ALTERNATE GC-05 | | 300E | |
| 400 | 45 | 400 MAIN OFFICE | PNL-G2-WD | | 3'-0" | | 3'-0" | 7'-0" | 0'-1 3/4" | FRM-20HM1 | 0'-2" | 0'-2" | 0'-8 7/8" | PNT | 5/A900 | 6/A900 | | | 400 | |
| 400A | -- | 400A CL. | PNL-F-WD | | 3'-0" | | 3'-0" | 7'-0" | 0'-1 3/4" | FRM-00HM1 | 0'-2" | 0'-2" | 0'-5 3/4" | PNT | 1/A900 | 2/A900 | | | 400A | |
| 400B | -- | 400B ASSISTANT PRINCIPAL | PNL-N-WD | | 3'-0" | | 3'-0" | 7'-0" | 0'-1 3/4" | FRM-00HM1 | 0'-2" | 0'-2" | 0'-5 3/4" | PNT | 1/A900 | 2/A900 | | | 400B | |
| 400C | -- | 400C PRINCIPAL | PNL-N-WD | | 3'-0" | | 3'-0" | 7'-0" | 0'-1 3/4" | FRM-00HM1 | 0'-2" | 0'-2" | 0'-5 3/4" | PNT | 1/A900 | 2/A900 | | | 400C | |

| OFCI DOOR SCHEDULE - NEW FRAMES | | | | | | | | | | | | | | | |
|---------------------------------|-------------------|------------------|-------------|-------------------------|------------|------------|------------------|-------------|-------------|--------------|----------|---|----------|-------------|--|
| | | ROOM NUMBER/NAME | DOOR PANELS | | DOOR FRAME | | | | | DOOR | | | | | |
| DOOR NUMBER | FIRE RATING (MIN) | | PANEL TYPE | SINGLE PANEL DIMENSIONS | | FRAME TYPE | FRAME DIMENSIONS | | | FRAME FINISH | HEAD DTL | JAMB DTL | COMMENTS | DOOR NUMBER | |
| | | | | PANEL 1 | PANEL 1 | | JAMB WIDTH | HEAD HEIGHT | FRAME DEPTH | | | | | | |
| | | | | | | | | | | | | | | | |
| FINISH FIRST FLOOR | | | | | | | | | | | | | | | |
| 112 | 45 | 112 GIRLS | PNL-F-WD | 3'-0" | FRM-00HM1 | 0'-2" | 0'-2" | 0'-8 7/8" | PNT | 5/A900 | 6/A900 | OFCI - DOOR, HW AND HC OPERATOR. PROVIDE NEW FRAME AS SCHEDULED | 112 | | |
| 114 | 45 | 114 BOYS | PNL-F-WD | 3'-0" | FRM-00HM1 | 0'-2" | 0'-2" | 0'-8 7/8" | PNT | 5/A900 | 6/A900 | OFCI - DOOR, HW AND HC OPERATOR. PROVIDE NEW FRAME AS SCHEDULED | 114 | | |
| 219 | 45 | 219 GIRLS | PNL-F-WD | 3'-0" | FRM-00HM1 | 0'-2" | 0'-2" | 0'-8 7/8" | PNT | 5/A900 | 6/A900 | OFCI - DOOR, HW AND HC OPERATOR. PROVIDE NEW FRAME AS SCHEDULED | 219 | | |
| 220 | 45 | 220 BOYS | PNL-F-WD | 3'-0" | FRM-00HM1 | 0'-2" | 0'-2" | 0'-8 7/8" | PNT | 5/A900 | 6/A900 | OFCI - DOOR, HW AND HC OPERATOR. PROVIDE NEW FRAME AS SCHEDULED | 220 | | |

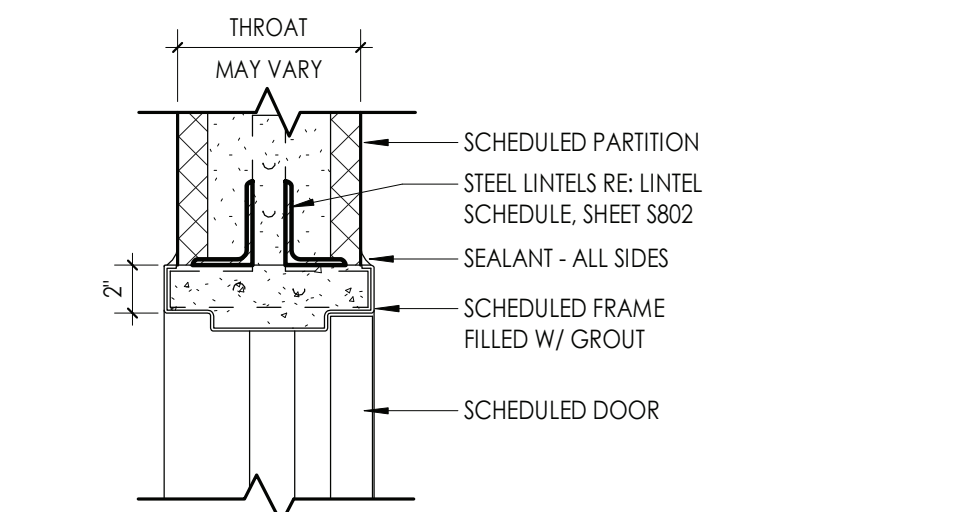
NOTE: DOOR 501 TO RECEIVE A NEW ALUMINUM COVER PLATE AT THE SILL - REFER TO HARDWARE SPEC



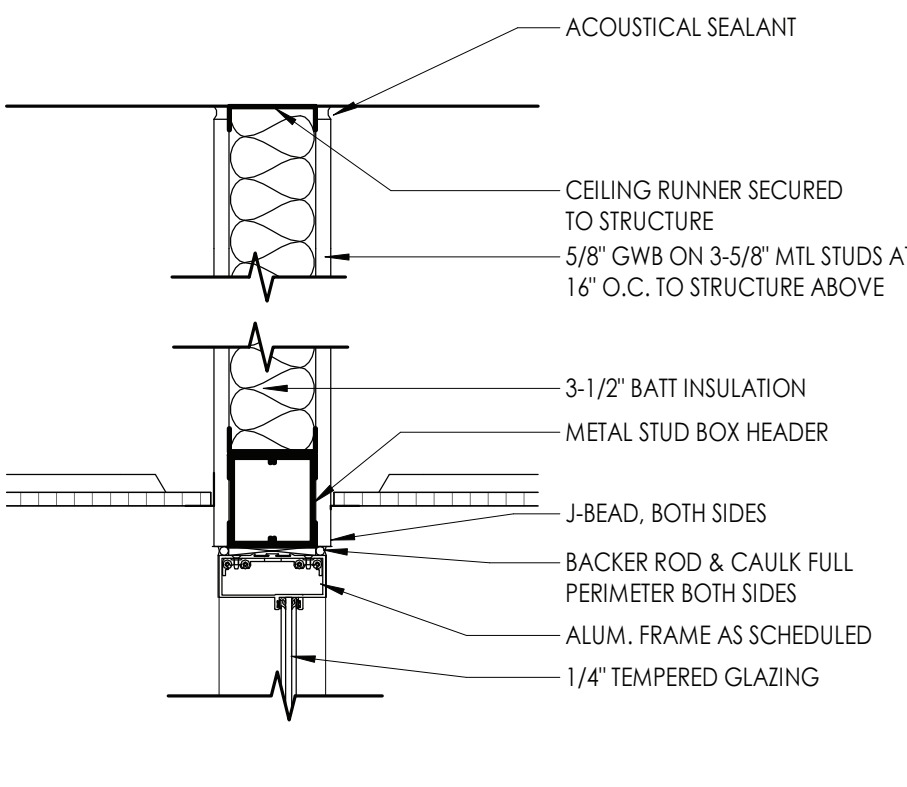
1 DOOR IN STUD - HEAD DETAIL
1 1/2" = 1'-0"



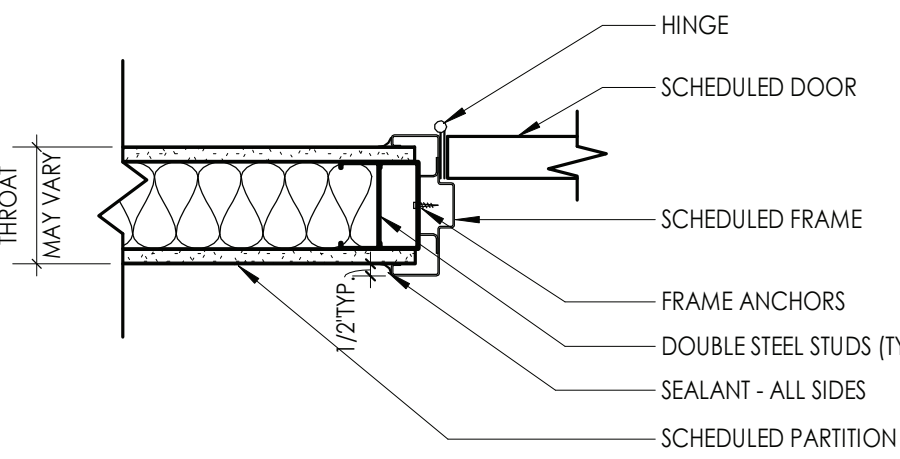
3 DOOR IN CMU - HEAD DETAIL
1 1/2" = 1'-0"



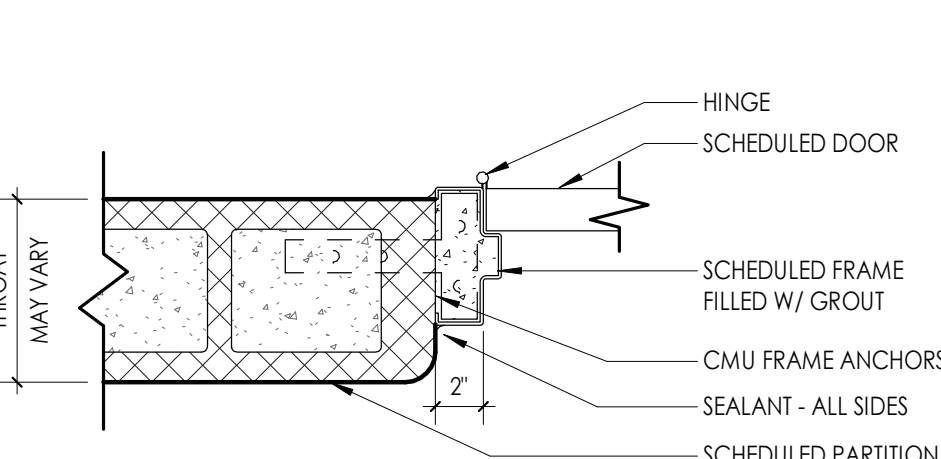
5 WRAPPED DOOR IN CMU - HEAD DETAIL
1 1/2" = 1'-0"



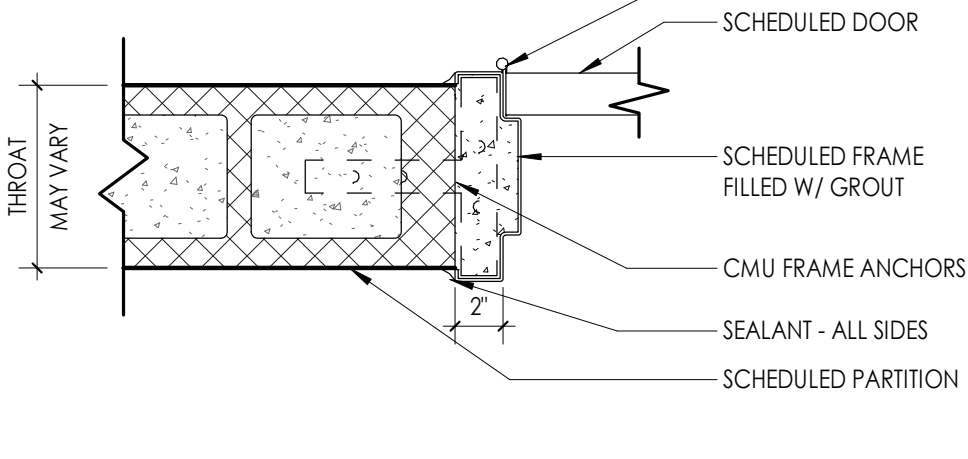
7 ALUM. STOREFRONT - HEAD DETAIL
1 1/2" = 1'-0"



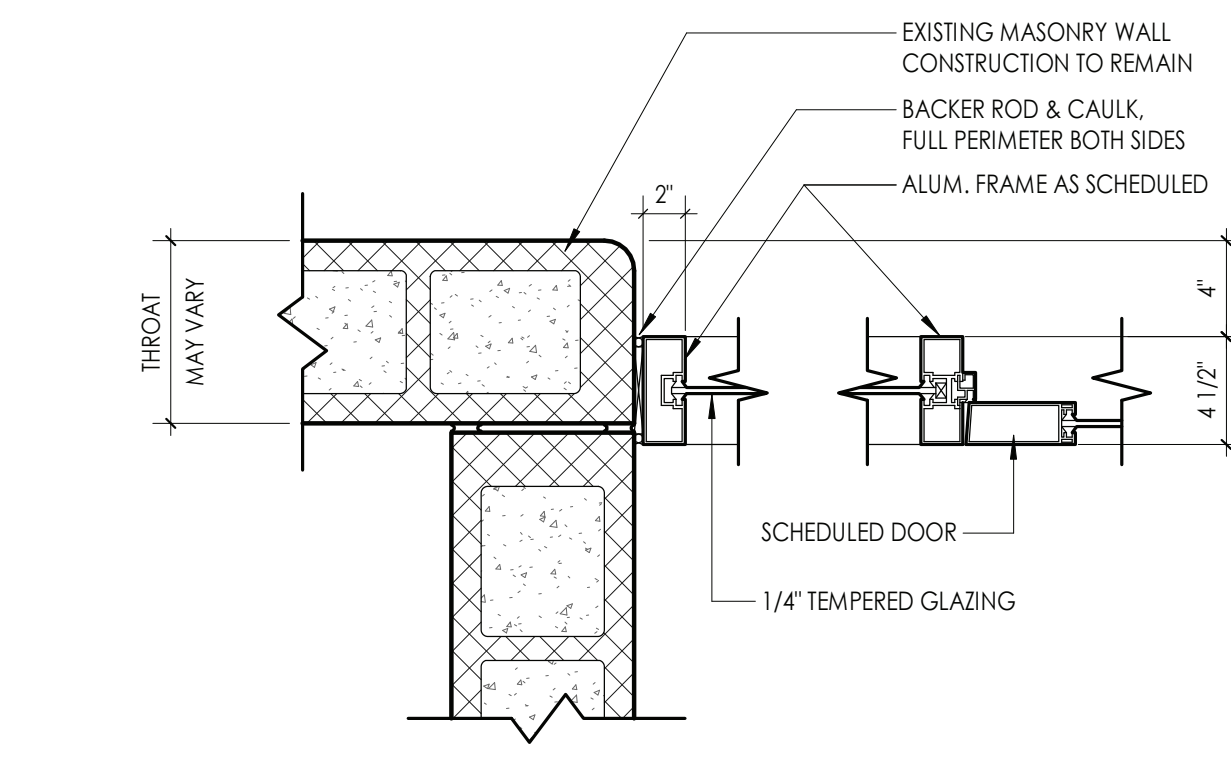
2 DOOR IN STUD - JAMB DETAIL
1 1/2" = 1'-0"



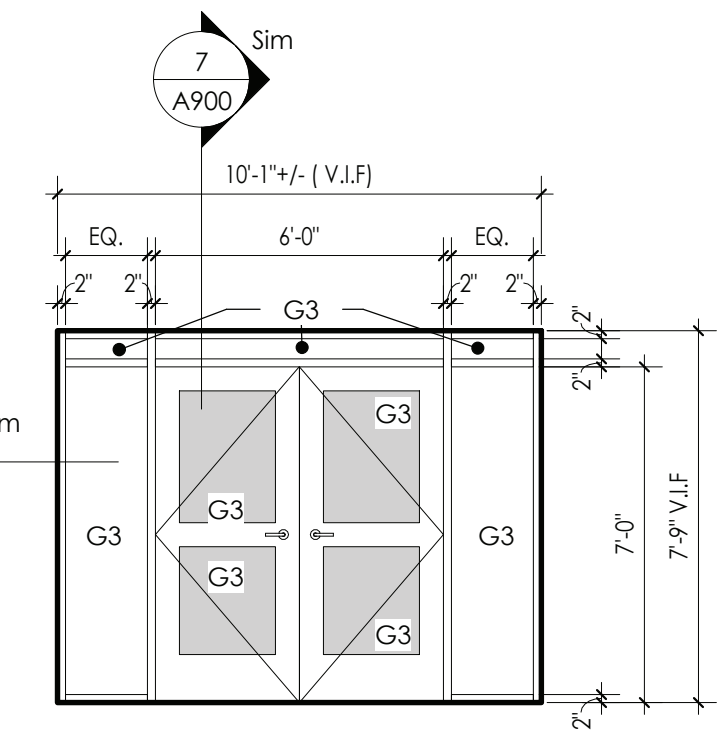
4 DOOR IN CMU - JAMB DETAIL
1 1/2" = 1'-0"



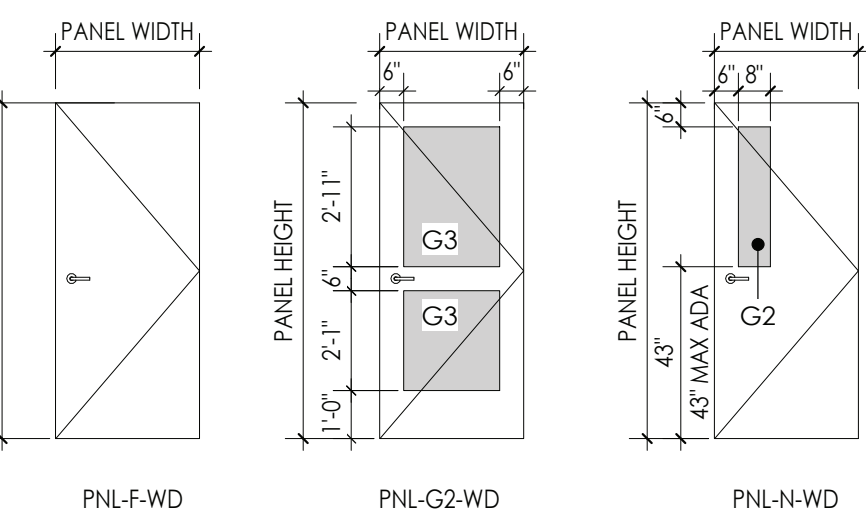
6 WRAPPED DOOR IN CMU - JAMB DETAIL
1 1/2" = 1'-0"



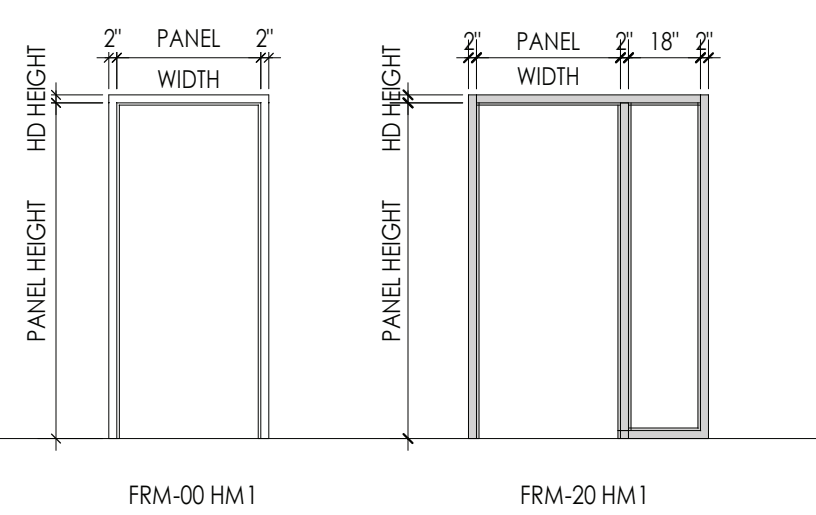
8 ALUM. STOREFRONT - JAMB DETAIL
1 1/2" = 1'-0"



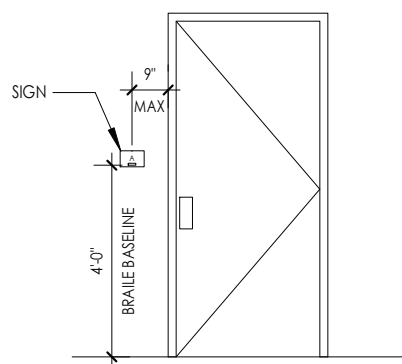
7 ALUM. STOREFRONT ELEVATION
1/4" = 1'-0"



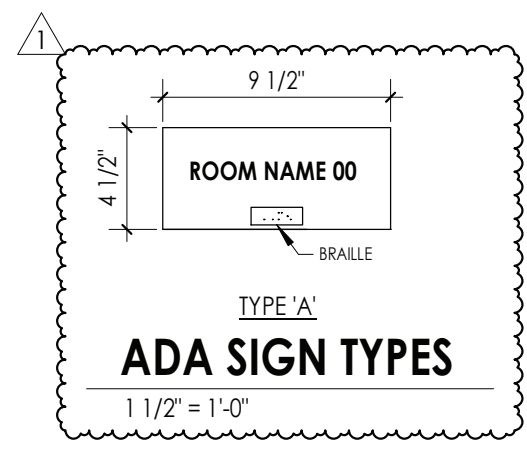
DOOR PANEL TYPES
1/4" = 1'-0"



DOOR FRAME TYPES
1/4" = 1'-0"



ADA SIGN LOCATION
1/4" = 1'-0"



ADA SIGN TYPES
1 1/2" = 1'-0"

DOOR AND FRAME NOTES

- ALL FRAMES ARE TO RECEIVE FULL PERIMETER SEALANT, INTERIOR AND EXTERIOR
- ALL DOOR AND WINDOW OPENING DIMENSIONS ARE TO BE VERIFIED IN FIELD AND COORDINATED WITH APPROVED SHOP DRAWINGS PRIOR TO FABRICATION.
- 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 |
| MFR | MANUFACTURER |

GLAZING TYPES

- G1 - INSULATED GLAZING
- G2 - FIRE RATED GLAZING
- G3 - TEMPERED GLAZING

NOTE: NEW FRAMES TO BE PAINTED TO MATCH EXISTING ADJACENT.

PROJECT INFORMATION

Project Number
14457.20
Client Name
SOUTH ORANGETOWN CENTRAL SCHOOL DISTRICT
Project Name
PHASE 1: 2022 BOND

District Office Address
160 VAN WYCK RD.
BLAUVELT, NY 10913

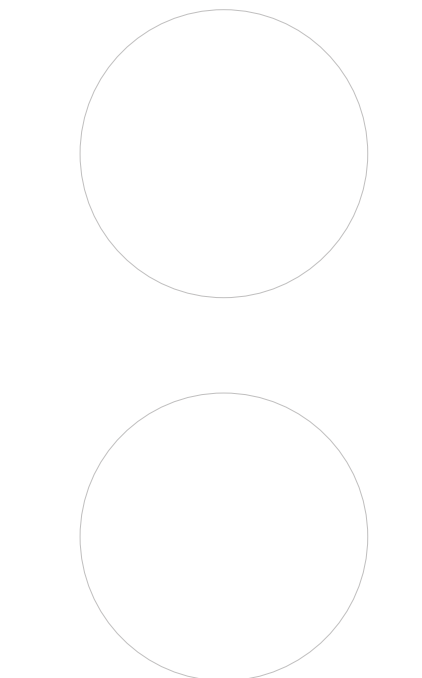
SOUTH ORANGETOWN CSD

- ☐ WILLIAM O. SCHAEFER SED# 35-03-01-06-0-010-2-019
- ☐ COTTAGE LANE ELEMENTARY SED# 35-03-01-06-0-010-0-022
- ☐ TAPPAN ZEE HIGH SCHOOL SED# 35-03-01-06-0-004-0-032
- ☐ WILLIAM O. SCHAEFER SAL SED# 35-03-01-06-0-010-2-002
- ☐ COTTAGE LANE SAL SED# 35-03-01-06-0-010-0-023
- ☐ COTTAGE LANE LIBRARY SAL SED# 35-03-01-06-8-023-0-022
- ☐ WOS OUTDOOR CLASSROOM SED# 35-03-01-06-7-033-0-001
- ☐ SOWA OUTDOOR CLASSROOM SED# 35-03-01-06-7-034-0-001
- ☐ CLE OUTDOOR CLASSROOM SED# 35-03-01-06-7-034-0-001
- ☐ T2H5 OUTDOOR CLASSROOM SED# 35-03-01-06-7-035-0-001

PROJECT ISSUE & REVISION SCHEDULE

| No. | Date | Description |
|-----|----------|-----------------|
| 1 | 11/17/23 | BID ADDENDUM #4 |

PROFESSIONAL STAMPS



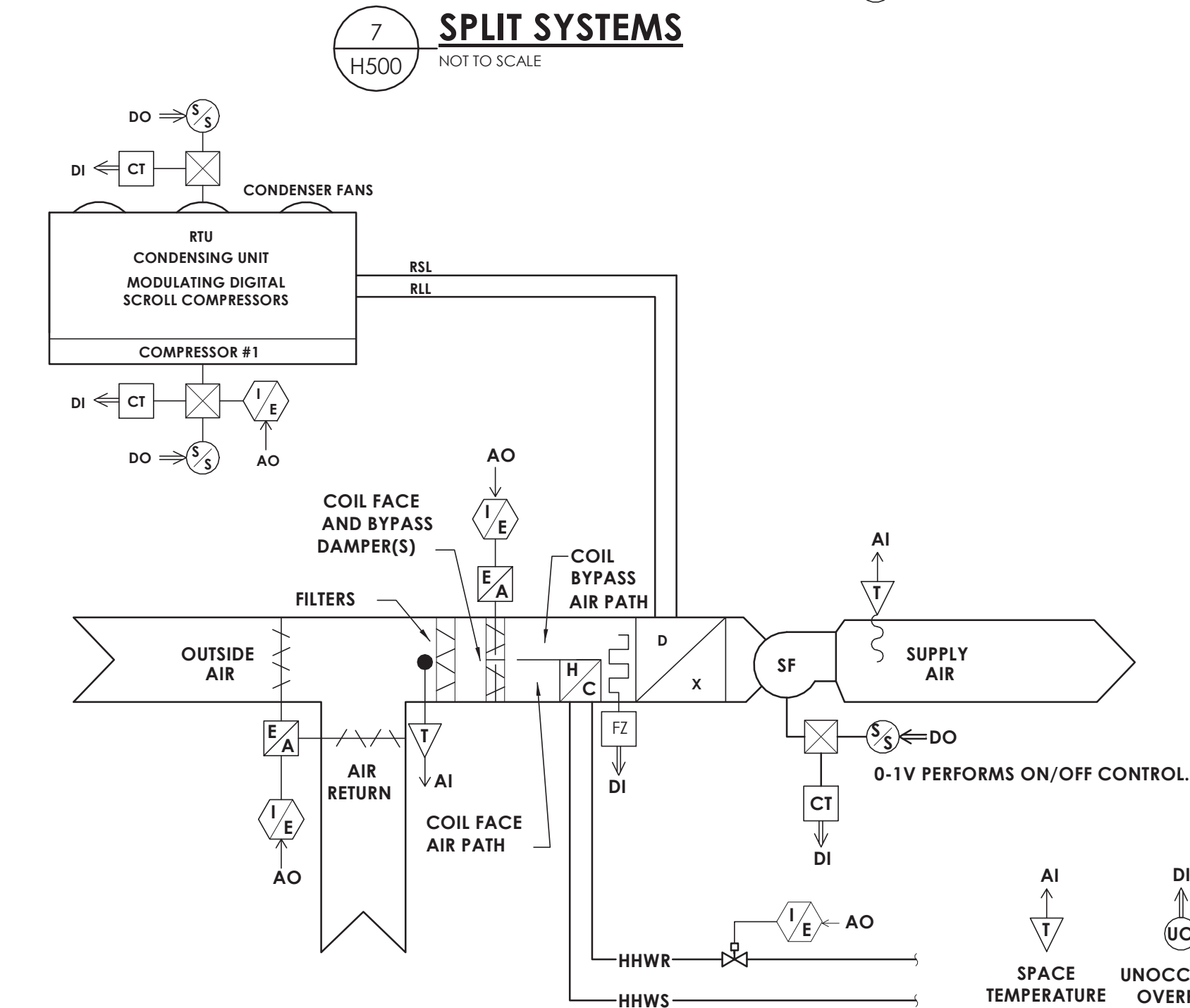
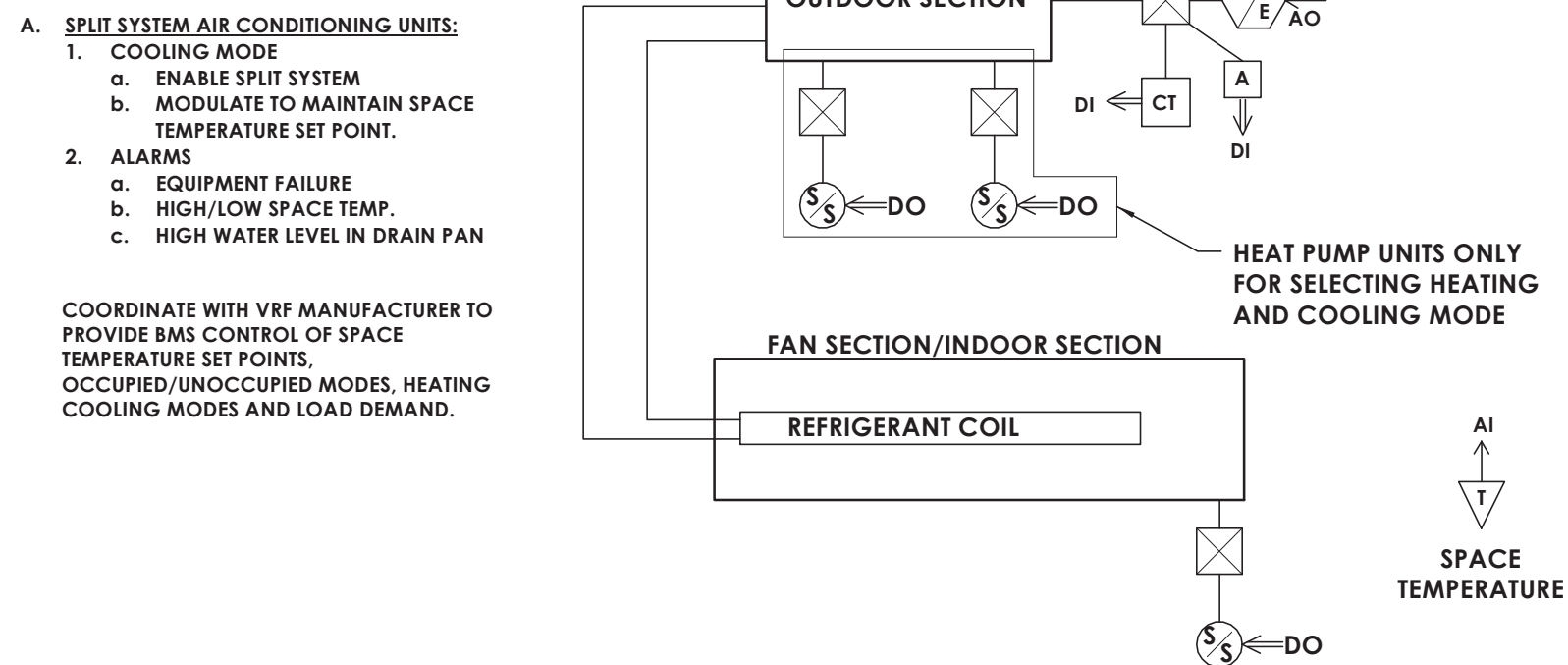
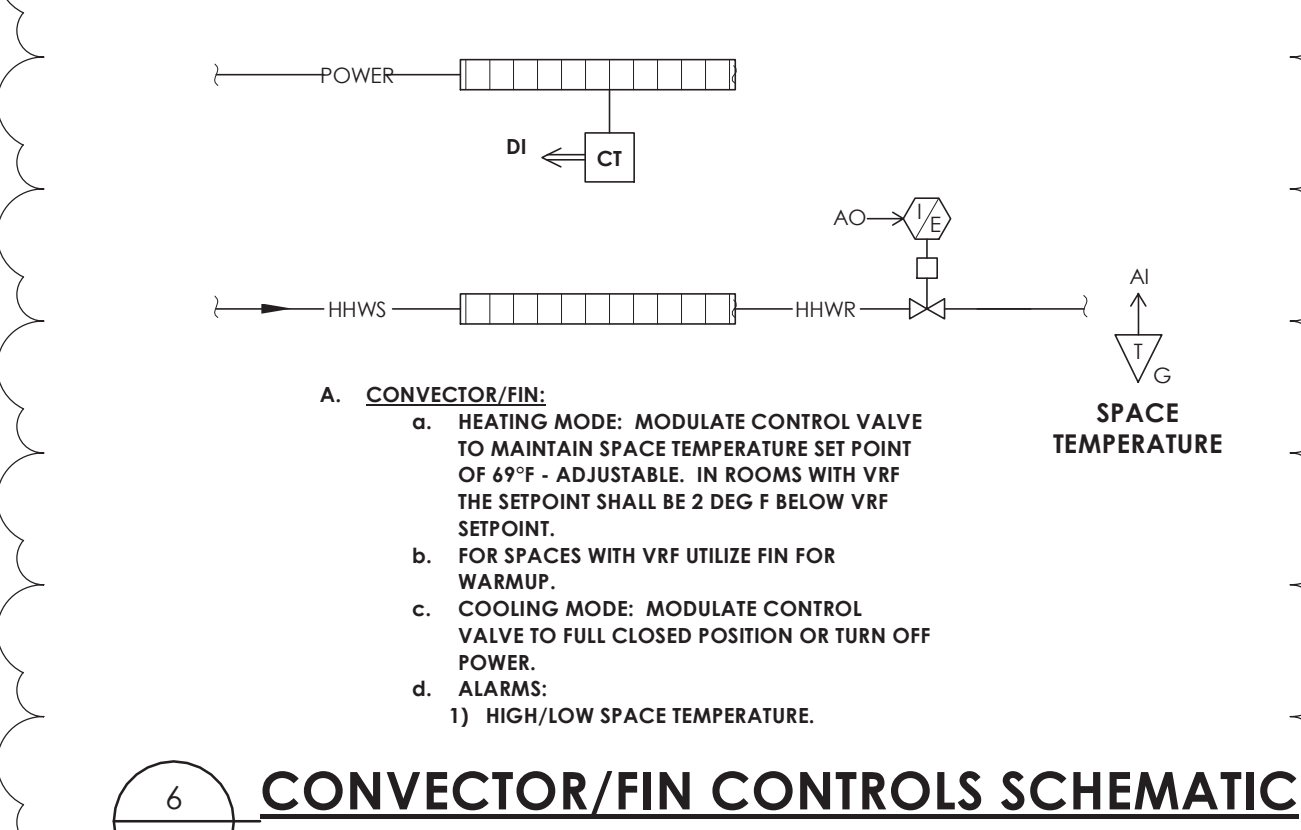
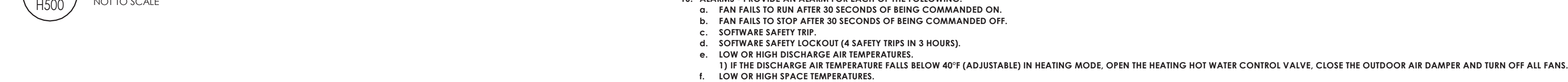
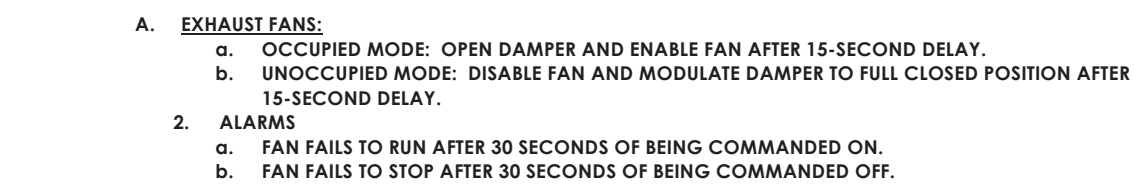
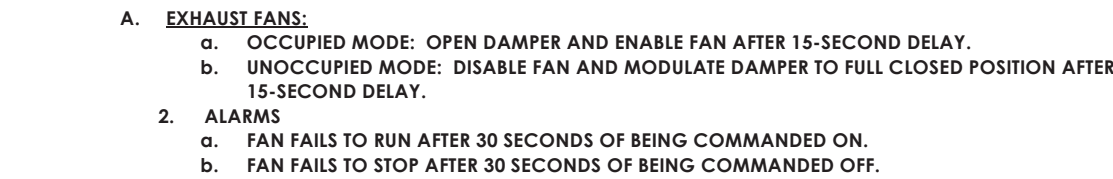
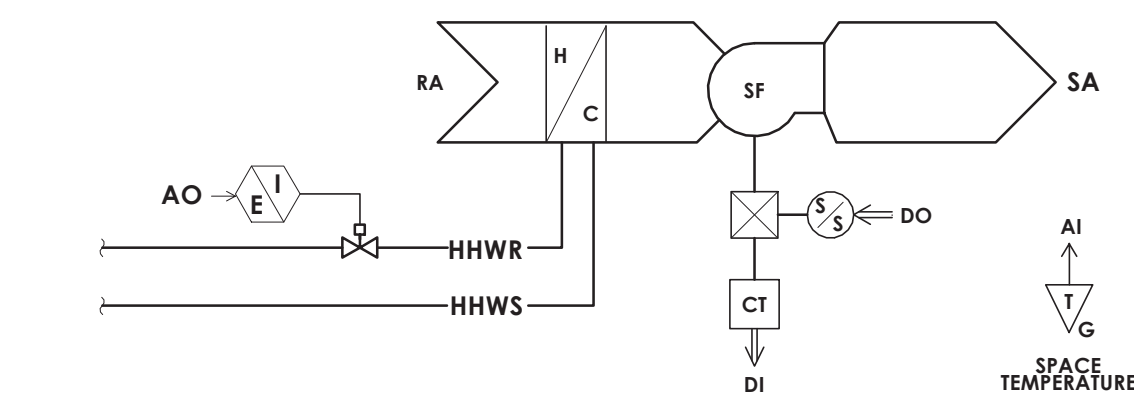
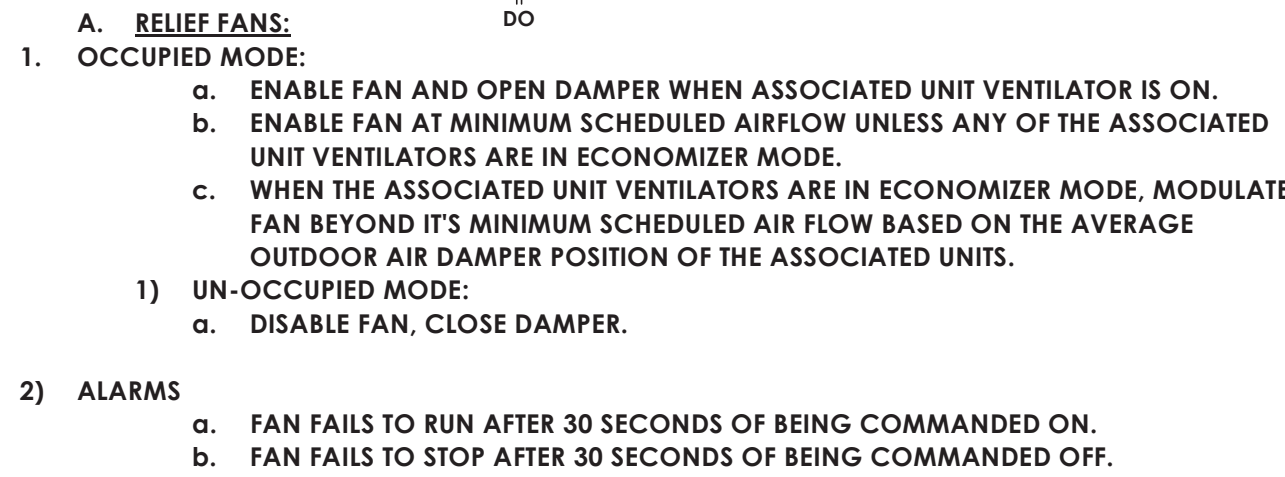
NEW YORK STATE EDUCATION LAW

IF IS A VIOLATION OF NEW YORK STATE EDUCATION LAW AND THE COMMISSIONER'S REGULATION FOR ANY PERSON, UNDER ACTING UNDER THE REGULATION OF A LICENSED ARCHITECT, ENGINEER OR LAND SURVEYOR, TO ALTER ANYTHING IN ANY WAY, IF ANYTHING, BEARING THE SEAL OF AN ARCHITECT, ENGINEER OR SURVEYOR IS ALTERED, THE ALTERING PARTY SHALL WITHIN 10 DAYS FROM THE DATE OF THE VIOLATION, NOTIFY THE COMMISSIONER OF EDUCATION AND THE STATE EDUCATION DEPARTMENT, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

SHEET INFORMATION

Issued
10/18/23
Project Status
BID DOCUMENTS
Drawn By
LF
Drawing Title
DOOR TYPES & SCHEDULES

Scale
As indicated
Checked By
LT
Drawing Number



1. SEQUENCES OF OPERATION SPECIFIED HEREIN, WHICH INDICATE THE FUNCTIONAL INTENT OF HVAC SYSTEMS, SUBSYSTEMS, AND/OR COMPONENTS OPERATING ARE GENERAL IN NATURE AND DO 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 DESIRED SEQUENCE/SYSTEM OF 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 TO A MINIMUM, MINIMUM LEAVING AIR TEMPERATURES OPTIMALLY.
 3. COORDINATE INDIVIDUAL ALARM NOTIFICATIONS WITH THE BMS.
 4. ALARMS SHALL BE CONFIGURED AS STATUS ONLY OR CRITICAL. STATUS ONLY ALARMS SHALL DISPLAY ALARM ON THE OWNER COORDINATED WORKSTATIONS(S) AND PRINT(ES). CRITICAL ALARMS SHALL BE BMS COORDINATED UNIT SHUTDOWN ALONG WITH DISPLAYING ALARMS ON THE OWNER COORDINATED DEVICES AND PRINT(ES). THE ALARMS ARE TO BE CLEARED PRIOR TO RESTARTING THE EQUIPMENT.
 5. ALL HVAC EQUIPMENT SHALL OPERATE IN OCCUPIED/UNOCCUPIED MODES AS DETERMINED BY THE BMS BUILDING TIME CLOCK SYSTEM. OUTSIDE THE BUILDING OCCUPANCY SCHEDULE FROM THE OWNER.
 6. ALL EQUIPMENT SHALL UTILIZE OPTIMUM START/STOP ALARMS.
 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 OF 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.
 10. UNIT SET POINTS, AND/OR SETPOINTS, USE THE FOLLOWING SPACE TEMPERATURE SET POINTS. SET POINTS SHALL BE INDEPENDENTLY ADJUSTABLE BY SPACE THROUGH THE BMS. UNOCCUPIED MODES.
 - B.

| | OCCUPIED MODE | | UNOCCUPIED MODE | |
|-------------------|---------------|---------|-----------------|---------|
| | COOLING | HEATING | COOLING | HEATING |
| OCCUPIED SPACES | 74°F | 69°F | 85°F | 55°F |
| UNOCCUPIED SPACES | 80°F | 60°F | 85°F | 55°F |

UNIT 5 ONLY PROJECT ISSUE & REVISION SCHEDULE

| No. | Date | Description |
|-----|------------|-----------------|
| 1 | 11/17/2023 | BID ADDENDUM #4 |

PROFESSIONAL STAMPS

SHEET INFORMATION

| Issued | Scale |
|------------|-------------|
| 10/18/2023 | 12" = 1'-0" |

Project Status
BID DOCUMENTS

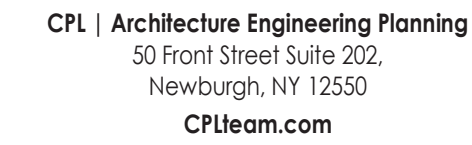
Drawn By _____ Checked By _____

| | KCM | JJM |
|---------------|-----|-----|
| Drawing Title | | |

MECHANICAL CONTROLS

Drawing Number

GEN
H500



PROJECT INFORMATION

Project Number
14457.20

Client Name

**SOUTH ORANGETOWN CENTRAL
SCHOOL DISTRICT**

PHASE 1: 2022 BOND

District Office Address
160 VAN WYCK RD. BLAUVELT, NY 10913

SOUTH ORANGETOWN CSD

- ☐ WILLIAM O. SCHAEFER SED#: 50-03-01-06-0-012-019
- ☐ COTTAGE LANE ELEMENTARY SED#: 50-03-01-06-0-010-020
- ☐ TAPPAN ZEE HIGH SCHOOL SED#: 50-03-01-06-0-006-032
- ☐ WILLIAM O. SCHAEFER S&L SED#: 50-03-01-06-0-012-020
- ☐ COTTAGE LANE S&L SED#: 50-03-01-06-0-010-023
- ☐ COTTAGE LANE LIBRARY S&L SED#: 50-03-01-06-0-023-002
- ☐ WOS OUTDOOR CLASSROOM SED#: 50-03-01-06-7-053-001
- ☐ SOMS OUTDOOR CLASSROOM SED#: 50-03-01-06-7-056-000
- ☐ CLE OUTDOOR CLASSROOM SED#: 50-03-01-06-7-054-001
- ☐ T2HS OUTDOOR CLASSROOM SED#: 50-03-01-06-7-055-001

PROJECT ISSUE & REVISION SCHEDULE

| No. | Date | Description |
|-----|------------|-----------------|
| 1 | 11/17/2023 | BID ADDENDUM #4 |

PROFESSIONAL STAMPS

NEW YORK STATE EDUCATION STATEMENT

IF 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 ALTERATION.

SHEET INFORMATION

| Issued | Scale |
|------------|-------------|
| 10/18/2023 | 12" = 1'-0" |

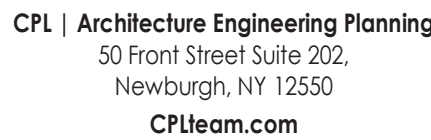
Project Status
BID DOCUMENTS

Drawn By _____ Checked By _____

MECHANICAL CONTROLS

Drawing Number

GEN
H500

Project Number
14457.20

Client Name

SOUTH

SCHOOL DISTRICT

Project Name

PHASE 1: 2022 BOND

District Office Address

160 VAN WYCK RD. BLAUVELT, NY 10913

SOUTH ORANGETOWN CSO

- | | | |
|--------------------------|--------------------------------|-----------------------|
| <input type="checkbox"/> | WILLIAM O. SCHAEFER S&L SED#: | 50-03-01-06-0-012-019 |
| <input type="checkbox"/> | COTTAGE LANE ELEMENTARY SED#: | 50-03-01-06-0-010-000 |
| <input type="checkbox"/> | TAPPAN TEE HIGH SCHOOL SED#: | 50-03-01-06-0-006-032 |
| <input type="checkbox"/> | WILLIAM O. SCHAEFER S&L SED#: | 50-03-01-06-0-012-020 |
| <input type="checkbox"/> | COTTAGE LANE S&L SED#: | 50-03-01-06-0-010-023 |
| <input type="checkbox"/> | COTTAGE LANE LIBRARY S&L SED#: | 50-03-01-06-0-023-020 |
| <input type="checkbox"/> | WOS OUTDOOR CLASSROOM SED#: | 50-03-01-06-7-053-000 |
| <input type="checkbox"/> | SOWMS OUTDOOR CLASSROOM SED#: | 50-03-01-06-7-056-000 |
| <input type="checkbox"/> | CLE OUTDOOR CLASSROOM SED#: | 50-03-01-06-7-054-000 |
| <input type="checkbox"/> | TZHS OUTDOOR CLASSROOM SED#: | 50-03-01-06-7-055-000 |

PROJECT ISSUE & REVISION SCHEDULE

| No. | Date | Description |
|-----|------------|-----------------|
| 1 | 11/17/2023 | BID ADDENDUM #4 |

PROFESSIONAL STAMPS

NEW YORK STATE EDUCATION STATEMENT

SHEET INFORMATION

| | |
|------------|-------------|
| Issued | Scale |
| 10/18/2023 | 12" = 1'-0" |

Project Status

BID DOCUMENT

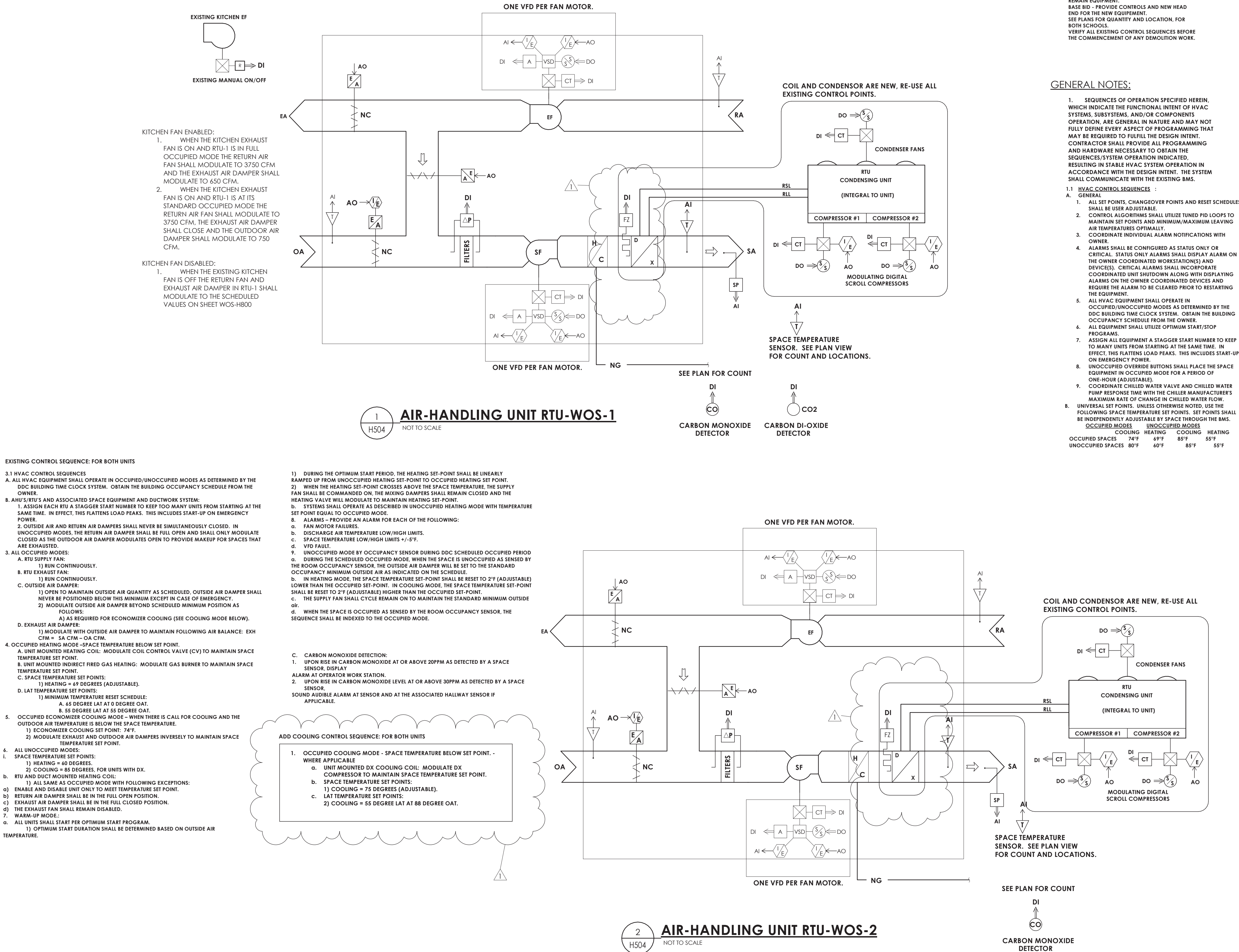
Drawn By _____ Checked By _____

KCM JJM

Drawing Title
MECHANICAL CONTROLS

Drawing Number

GEN
H504

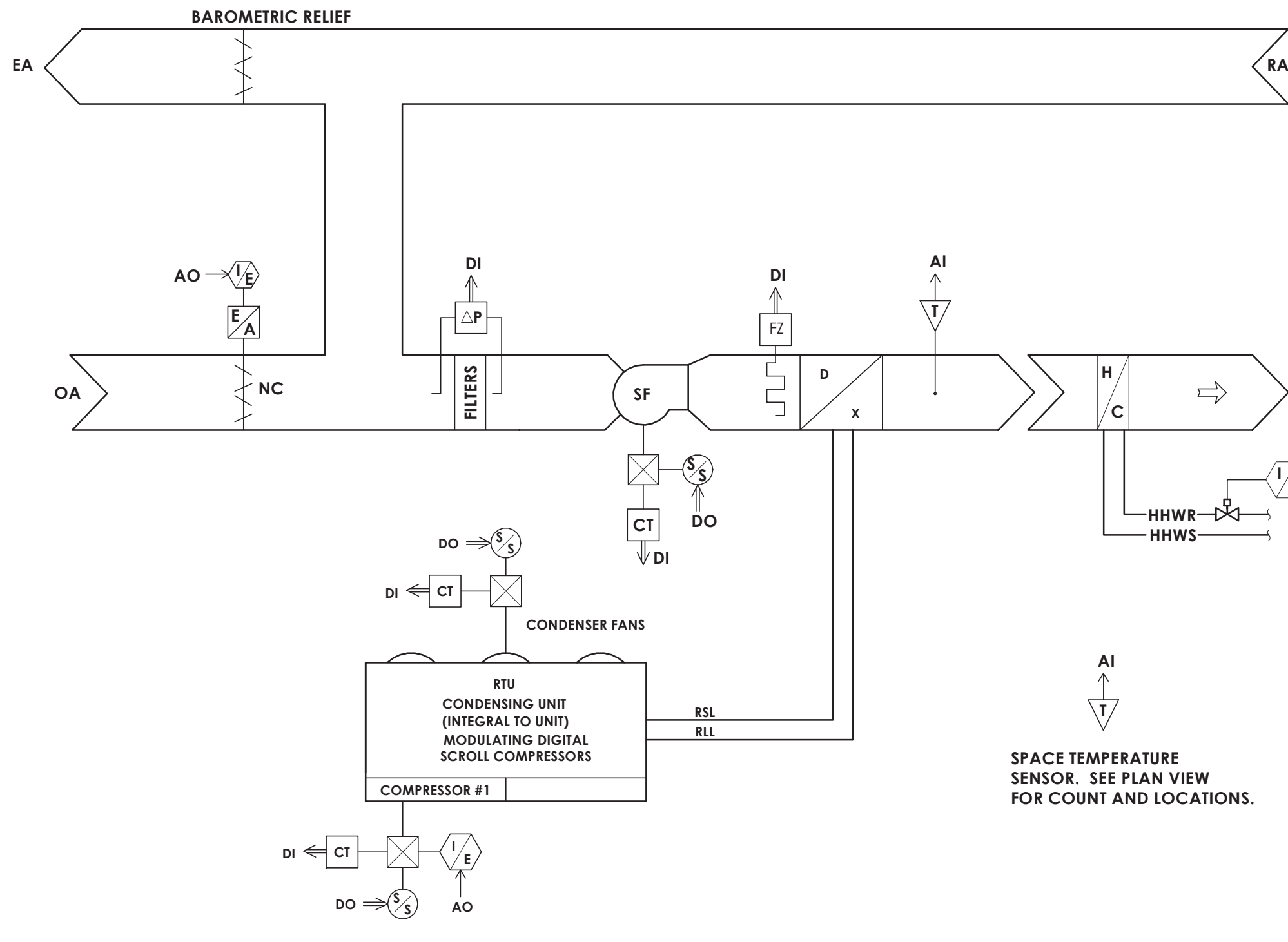


<project location> REVIT PROJECT FILES ON BIM360

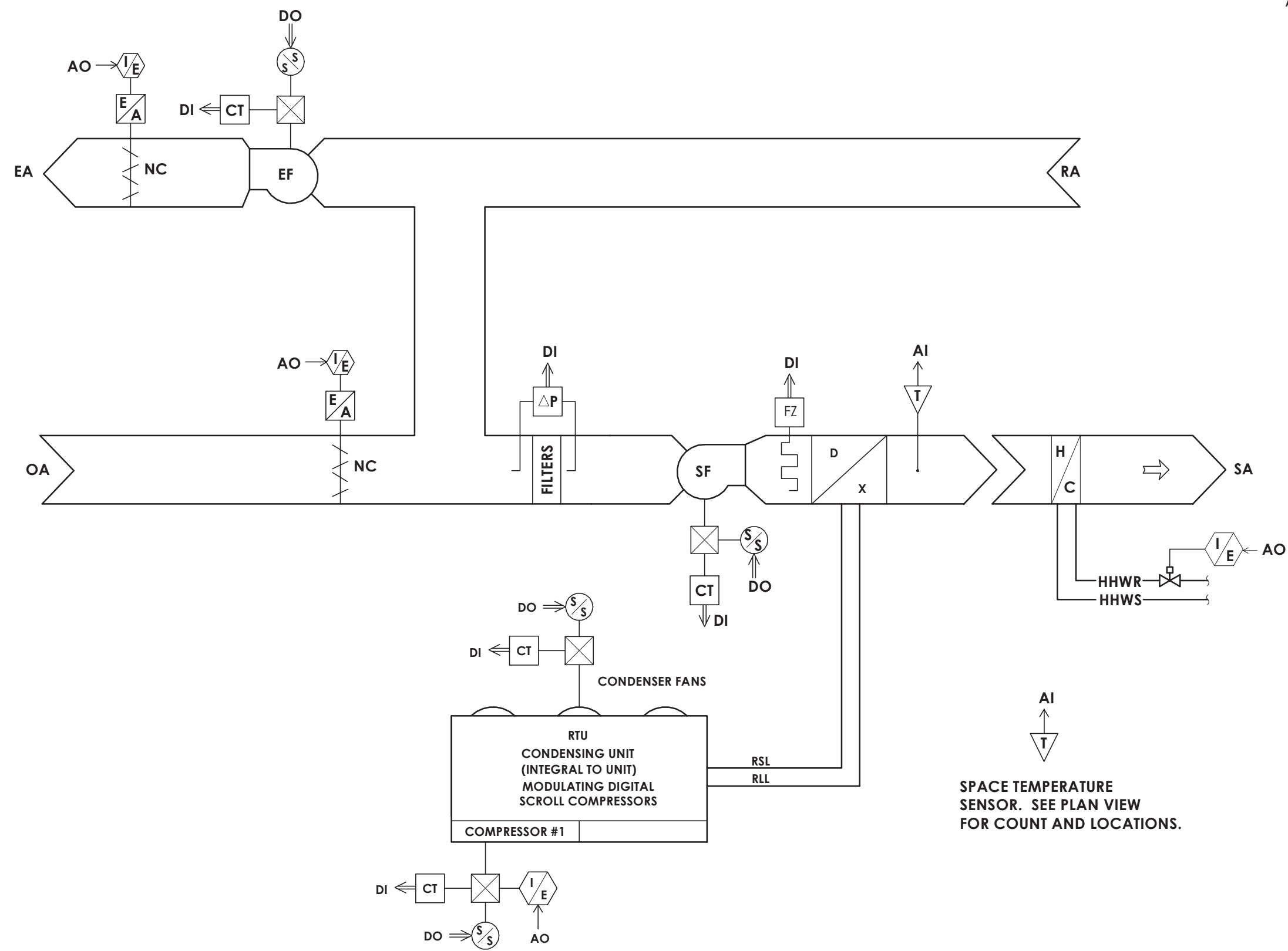
11/16/2023 2:06:39 PM

11/17/2023 9:03:42 AM c:\project\location> REVIT PROJECT FILES ON BIM360

- A. ROOF TOP UNITS:
- ALL OCCUPIED MODES:
 - UNIT SUPPLY FAN:
 - RUN CONTINUOUSLY.
 - OCCUPIED HEATING MODE -SPACE TEMPERATURE BELOW SET POINT.
 - HEATING COIL: MODULATE HEATING COIL CONTROL VALVE (CV) TO MAINTAIN SPACE TEMPERATURE SET POINT.
 - SPACE TEMPERATURE SET POINTS:
 - HEATING = 69 DEGREES (ADJUSTABLE).
 - LAT TEMPERATURE SET POINTS:
 - MINIMUM TEMPERATURE RESET SCHEDULE:
 - 65 DEGREE LAT AT 0 DEGREE OAT.
 - 55 DEGREE LAT AT 55 DEGREE OAT.
 - HEAT EXCHANGER FACE AND BYPASS DAMPER: MODULATE DAMPER AS RECOMMENDED BY THE UNIT MANUFACTURER FOR THE HEAT EXCHANGER DEFROST CYCLE.
 - OCCUPIED COOLING MODE - SPACE TEMPERATURE BELOW SET POINT. - WHERE APPLICABLE
 - UNIT MOUNTED DX COOLING COIL: MODULATE DX COMPRESSOR TO MAINTAIN SPACE TEMPERATURE SET POINT.
 - SPACE TEMPERATURE SET POINTS:
 - COOLING = 75 DEGREES (ADJUSTABLE).
 - LAT TEMPERATURE SET POINTS:
 - COOLING = 55 DEGREE LAT AT 88 DEGREE OAT
 - OCCUPIED ECONOMIZER COOLING MODE - WHEN THERE IS CALL FOR COOLING AND THE OUTDOOR AIR TEMPERATURE IS BELOW THE SPACE TEMPERATURE.
 - ECONOMIZER COOLING SET POINT: 74°F.
 - FULLY OPEN RECIRCULATION DAMPER.
 - IF THE SPACE TEMPERATURE RISES ABOVE THE COOLING SETPOINT OF 75 DEGREES F (ADJUSTABLE), AND THE CONTROLS INDICATES THAT ECONOMIZER OPERATION IS NOT APPROPRIATE, THE OUTSIDE AIR DAMPERS WILL MODULATE CLOSE TO MINIMUM POSITION AND THE DX COOLING STAGES WILL BE ENERGIZED.
 - 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.
 - THE CONTROLS 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 SPACE TEMPERATURE IS DETECTED.
 - ALL UNOCCUPIED MODES:
 - SPACE TEMPERATURE SET POINTS:
 - HEATING = 40 DEGREES.
 - COOLING = 85 DEGREES.
 - THERE SHALL BE A 5 DEGREE DEADBAND FOR HEATING AND COOLING SET POINTS.
 - HEATING COIL:
 - ALL SAME AS OCCUPIED MODE WITH FOLLOWING EXCEPTIONS:
 - ENABLE AND DISABLE UNIT ONLY TO MEET TEMPERATURE SET POINT.
 - OPEN RECIRCULATION DAMPER.
 - WARM-UP MODE:
 - ALL UNITS SHALL START PER OPTIMUM START PROGRAM.
 - OPTIMUM START DURATION SHALL BE DETERMINED BASED ON OUTSIDE AIR TEMPERATURE.
 - DURING THE OPTIMUM START PERIOD, THE HEATING SET-POINT SHALL BE LINEARLY RAMPED UP FROM UNOCCUPIED HEATING SET-POINT TO OCCUPIED HEATING SET POINT.
 - SYSTEMS SHALL OPERATE AS DESCRIBED IN UNOCCUPIED HEATING MODE WITH TEMPERATURE SET POINT EQUAL TO OCCUPIED MODE.
 - ALARMS - PROVIDE AN ALARM FOR EACH OF THE FOLLOWING:
 - FAN MOTOR FAILURES.
 - DISCHARGE AIR TEMPERATURE LOW/HIGH LIMITS.
 - FREEZE CONDITION.
 - DRAIN PAN.
 - SPACE TEMPERATURE LOW/HIGH LIMITS +/- 5°F.
 - VFD FAULT.



1 ROOFTOP UNIT RTU-3 CLE CONTROL SCHEMATIC
NOT TO SCALE



2 ROOFTOP UNIT RTU-3 CLE CONTROL SCHEMATIC
NOT TO SCALE

- A. ROOF TOP UNITS:
- ALL OCCUPIED MODES:
 - UNIT SUPPLY FAN:
 - RUN CONTINUOUSLY.
 - UNIT EXHAUST FAN:
 - RUN CONTINUOUSLY.
 - OCCUPIED HEATING MODE -SPACE TEMPERATURE BELOW SET POINT.
 - HEATING COIL: MODULATE HEATING COIL CONTROL VALVE (CV) TO MAINTAIN SPACE TEMPERATURE SET POINT.
 - SPACE TEMPERATURE SET POINTS:
 - HEATING = 69 DEGREES (ADJUSTABLE).
 - LAT TEMPERATURE SET POINTS:
 - MINIMUM TEMPERATURE RESET SCHEDULE:
 - 65 DEGREE LAT AT 0 DEGREE OAT.
 - 55 DEGREE LAT AT 55 DEGREE OAT.
 - HEAT EXCHANGER FACE AND BYPASS DAMPER: MODULATE DAMPER AS RECOMMENDED BY THE UNIT MANUFACTURER FOR THE HEAT EXCHANGER DEFROST CYCLE.
 - OCCUPIED COOLING MODE - SPACE TEMPERATURE BELOW SET POINT. - WHERE APPLICABLE
 - UNIT MOUNTED DX COOLING COIL: MODULATE DX COMPRESSOR TO MAINTAIN SPACE TEMPERATURE SET POINT.
 - SPACE TEMPERATURE SET POINTS:
 - COOLING = 75 DEGREES (ADJUSTABLE).
 - LAT TEMPERATURE SET POINTS:
 - COOLING = 55 DEGREE LAT AT 88 DEGREE OAT
 - OCCUPIED ECONOMIZER COOLING MODE - WHEN THERE IS CALL FOR COOLING AND THE OUTDOOR AIR TEMPERATURE IS BELOW THE SPACE TEMPERATURE.
 - ECONOMIZER COOLING SET POINT: 74°F.
 - FULLY OPEN RECIRCULATION DAMPER.
 - IF THE SPACE TEMPERATURE RISES ABOVE THE COOLING SETPOINT OF 75 DEGREES F (ADJUSTABLE), AND THE CONTROLS INDICATES THAT ECONOMIZER OPERATION IS NOT APPROPRIATE, THE OUTSIDE AIR DAMPERS WILL MODULATE CLOSE TO MINIMUM POSITION AND THE DX COOLING STAGES WILL BE ENERGIZED.
 - 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.
 - THE CONTROLS 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 SPACE TEMPERATURE IS DETECTED.
 - ALL UNOCCUPIED MODES:
 - SPACE TEMPERATURE SET POINTS:
 - HEATING = 40 DEGREES.
 - COOLING = 85 DEGREES.
 - THERE SHALL BE A 5 DEGREE DEADBAND FOR HEATING AND COOLING SET POINTS.
 - HEATING COIL:
 - ALL SAME AS OCCUPIED MODE WITH FOLLOWING EXCEPTIONS:
 - ENABLE AND DISABLE UNIT ONLY TO MEET TEMPERATURE SET POINT.
 - DISABLE EXHAUST FAN.
 - OPEN RECIRCULATION DAMPER.
 - WARM-UP MODE:
 - ALL UNITS SHALL START PER OPTIMUM START PROGRAM.
 - OPTIMUM START DURATION SHALL BE DETERMINED BASED ON OUTSIDE AIR TEMPERATURE.
 - DURING THE OPTIMUM START PERIOD, THE HEATING SET-POINT SHALL BE LINEARLY RAMPED UP FROM UNOCCUPIED HEATING SET-POINT TO OCCUPIED HEATING SET POINT.
 - SYSTEMS SHALL OPERATE AS DESCRIBED IN UNOCCUPIED HEATING MODE WITH TEMPERATURE SET POINT EQUAL TO OCCUPIED MODE.
 - ALARMS - PROVIDE AN ALARM FOR EACH OF THE FOLLOWING:
 - FAN MOTOR FAILURES.
 - DISCHARGE AIR TEMPERATURE LOW/HIGH LIMITS.
 - FREEZE CONDITION.
 - DRAIN PAN.
 - SPACE TEMPERATURE LOW/HIGH LIMITS +/- 5°F.
 - VFD FAULT.

GENERAL NOTES:

- 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 A STABLE HVAC SYSTEM OPERATION IN ACCORDANCE WITH THE DESIGN INTENT. THE SYSTEM SHALL COMMUNICATE WITH THE EXISTING BMS.
- 1.1 HVAC CONTROL SEQUENCES :
 - GENERAL:
 - ALL SET POINTS, CHANGEOVER POINTS AND RESET SCHEDULES SHALL BE USER ADJUSTABLE.
 - CONTROL ALGORITHMS SHALL UTILIZE TUNED PID LOOPS TO MAINTAIN SET POINTS AND MINIMUM/MAXIMUM LEAVING AIR TEMPERATURES OPTIMALLY.
 - COORDINATE INDIVIDUAL ALARM NOTIFICATIONS WITH OWNER.
 - ALARMS SHALL BE CONFIGURED AS STATUS ONLY OR CRITICAL. STATUS ONLY ALARMS SHALL DISPLAY ALARM ON THE OWNER COORDINATED WORKSTATIONS) 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.
 - ALL HVAC EQUIPMENT SHALL OPERATE IN OCCUPIED/UNOCCUPIED MODES AS DETERMINED BY THE DDC BUILDING TIME CLOCK SYSTEM. OBTAIN THE OCCUPANCY SCHEDULE FROM THE OWNER.
 - ALL EQUIPMENT SHALL UTILIZE OPTIMUM START/STOP PROGRAMS.
 - 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.
 - UNOCCUPIED OVERRIDE BUTTONS SHALL PLACE THE SPACE EQUIPMENT IN OCCUPIED MODE FOR A PERIOD OF ONE-HOUR (ADJUSTABLE).
 - COORDINATE CHILLED WATER VALVE AND CHILLED WATER PUMP RESPONSE TIME WITH THE CHILLER MANUFACTURER'S MAXIMUM RATE OF CHANGE IN CHILLED WATER FLOW.
 - UNIVERSAL SET POINTS. UNLESS OTHERWISE NOTED, USE THE FOLLOWING SPACE TEMPERATURE SET POINTS. SET POINTS SHALL BE INDEPENDENTLY ADJUSTABLE BY SPACE THROUGH THE BMS.

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

PROJECT INFORMATION

Project Number
14457.20

Client Name

SOUTH ORANGETOWN CENTRAL SCHOOL DISTRICT

Project Name

PHASE 1: 2022 BOND

District Office Address
160 VAN WYCK RD. BLAUVELT, NY 10913

SOUTH ORANGETOWN CSD

- ☐ WILLIAM O. SCHAFER SED#:50-03-01-06-0-010-2-019
- ☐ COTTAGE LANE ELEMENTARY SED#:50-03-01-06-0-010-010-022
- ☐ TAPPAN ZEE HIGH SCHOOL SED#:50-03-01-06-0-004-002
- ☐ WILLIAM O. SCHAFER SAL SED#:50-03-01-06-0-010-010-020
- ☐ COTTAGE LANE SAL SED#:50-03-01-06-0-010-023
- ☐ COTTAGE LANE LIBRARY SAL SED#:50-03-01-06-0-023-002
- ☐ WOS OUTDOOR CLASSROOM SED#:50-03-01-06-7-035-001
- ☐ LONES OUTDOOR CLASSROOM SED#:50-03-01-06-7-036-001
- ☐ CLE OUTDOOR CLASSROOM SED#:50-03-01-06-7-034-001
- ☐ LHS OUTDOOR CLASSROOM SED#:50-03-01-06-7-035-001

PROJECT ISSUE & REVISION SCHEDULE

| No. | Date | Description |
|-----|------------|-----------------|
| 1 | 11/17/2023 | BID ADDENDUM #4 |

PROFESSIONAL STAMPS

NEW YORK STATE REGISTRATION

IF A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND THE COMMISSIONER'S REGULATIONS FOR ANY PERSON, UNDER ACTIVE REGISTRATION OF A LICENSED ARCHITECT, ENGINEER OR LAND SURVEYOR, TO ACT AS AN ARCHITECT, ENGINEER OR LAND SURVEYOR, THE BOARD OF ARCHITECTS, ENGINEERS OR LAND SURVEYORS, THE ATTORNEY GENERAL, THE STATE BAR ASSOCIATION, THE NEW YORK STATE BAR ASSOCIATION, THE NEW YORK STATE JUDICIAL BRANCH, AND THE NEW YORK STATE JUDICIAL BRANCH, SHALL BE ADVISED OF SUCH VIOLATION, AND A SPECIFIC DESCRIPTION OF THE VIOLATION.

SHEET INFORMATION

Issued
10/18/2023

Scale
12" = 1'-0"

Project Status

BID DOCUMENTS

Drawn By

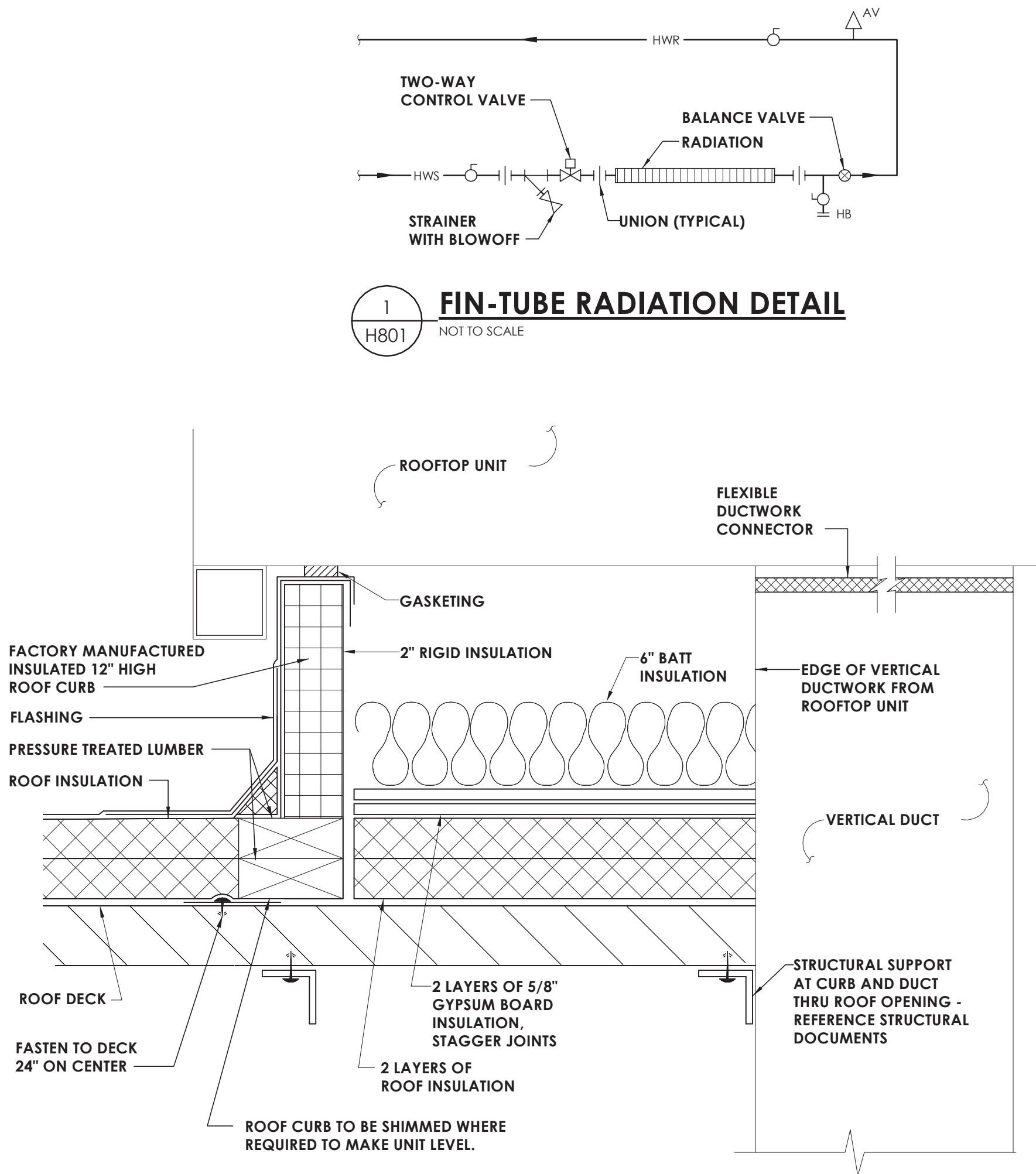
KCM

Drawing Title

MECHANICAL CONTROLS

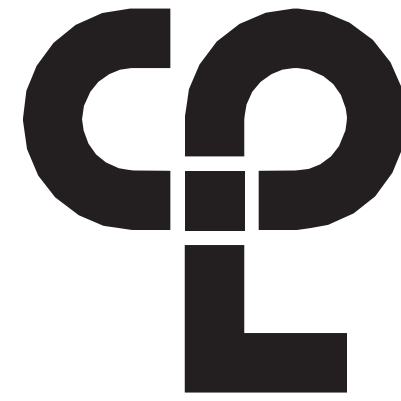
Drawing Number

**GEN
H505**

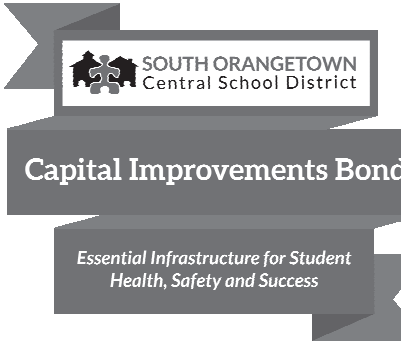


NOTE:
ALL ROOF TOP HVAC UNITS REQUIRED TO HAVE CURB AND CURB INTERIOR AS SHOWN.

2
H801 NOT TO SCALE
ROOFTOP UNIT - ROOF CURB DETAIL



CPL | Architecture Engineering Planning
50 Front Street Suite 202,
Newburgh, NY 12550
CPLearn.com



PROJECT INFORMATION

Project Number
14457.20
Client Name
SOUTH ORANGETOWN CENTRAL SCHOOL DISTRICT
Project Name
PHASE 1: 2022 BOND

District Office Address
160 VAN WYCK RD,
BLAUVELT, NY 10913

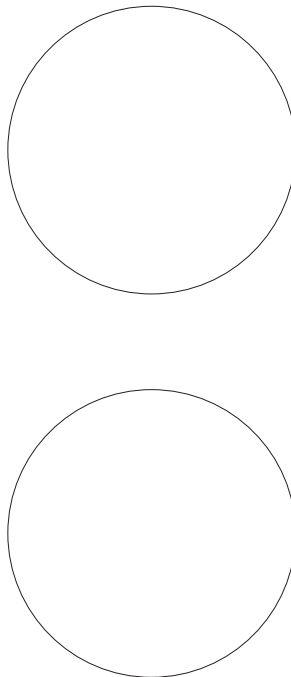
SOUTH ORANGETOWN CSD

- ☐ WILLIAM O. SCHAEFER SED#30-03-01-06-0-012-019
- ☐ COTTAGE LANE ELEMENTARY SED# 30-03-01-06-0-010-022
- ☐ TAPPAN ZEE HIGH SCHOOL SED# 30-03-01-06-0-004-032
- ☐ WILLIAM O. SCHAEFER SAL SED# 30-03-01-06-0-012-020
- ☐ COTTAGE LANE SAL SED# 30-03-01-06-0-010-033
- ☐ COTTAGE LANE LIBRARY SAL SED# 30-03-01-06-6-023-002
- ☐ WOS OUTDOOR CLASSROOM SED# 30-03-01-06-7-033-001
- ☐ TOWNS OUTDOOR CLASSROOM SED# 30-03-01-06-7-036-001
- ☐ CLE OUTDOOR CLASSROOM SED# 30-03-01-06-7-034-001
- ☐ THS OUTDOOR CLASSROOM SED# 30-03-01-06-7-035-001

PROJECT ISSUE & REVISION SCHEDULE

| Rev | Date | Description |
|-----|------------|-----------------|
| 1 | 11/17/2023 | BID ADDENDUM #4 |

PROFESSIONAL STAMPS



NEW YORK STATE EDUCATION STATUTE:
IT IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND THE COMMISSIONERS' REGULATIONS FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED ARCHITECT, ENGINEER OR LAND SURVEYOR, TO ALTER ANY ITEM IN ANY MAP, OR ANY ITEM, BEARING THE SEAL OF AN ARCHITECT, ENGINEER OR SURVEYOR, INCLUDING THE SEALING, PARTIAL SEALING, TO THE SEAL, OR THE SEALING, ALTERED BY FOLLOWING BY THEIR SIGNATURE AND THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

SHEET INFORMATION

Issued
10/18/23
Scale
1/2" = 1'-0"

PROJECT STATUS

BID DOCUMENTS

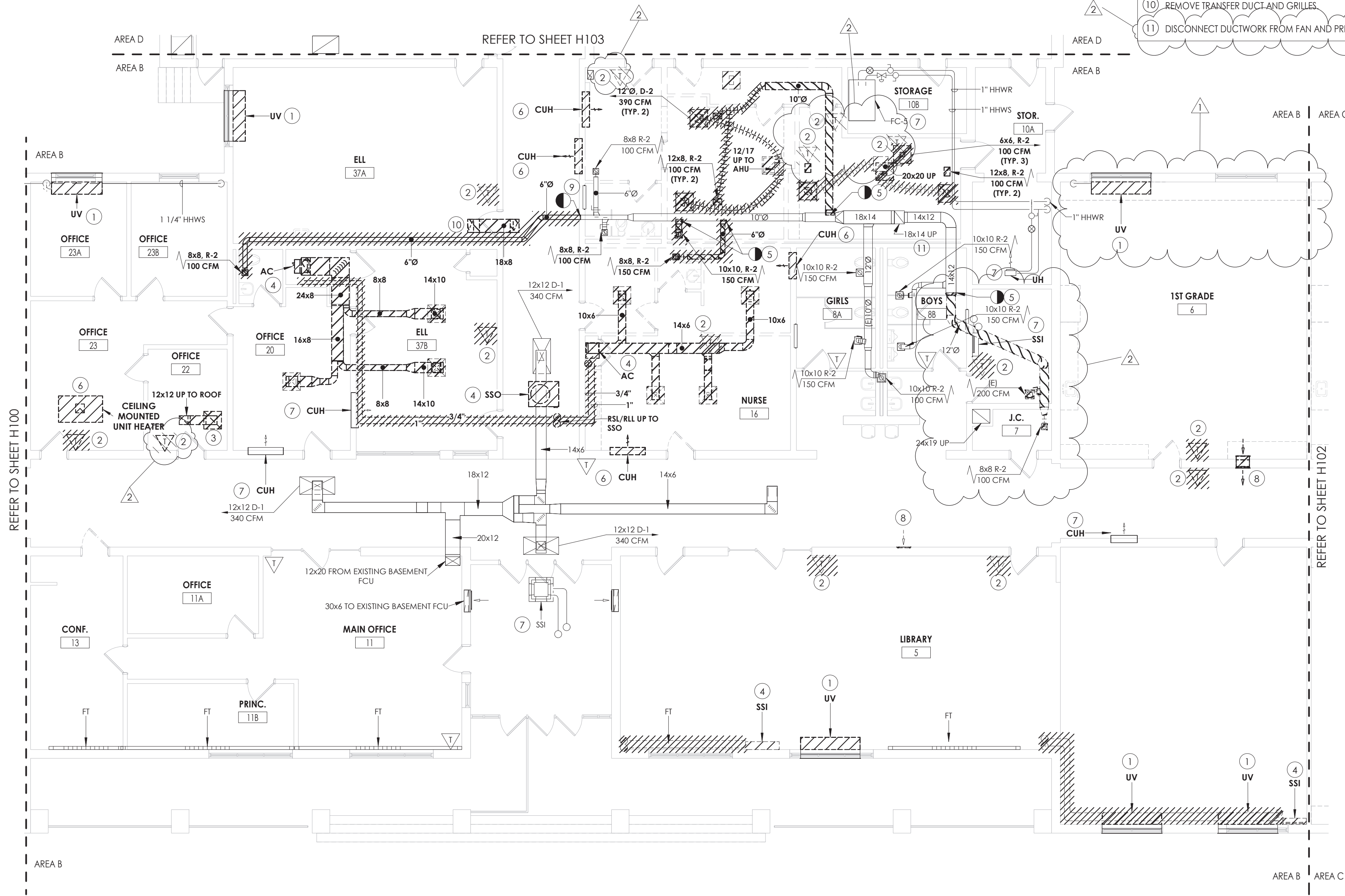
Drawn By
-
Checked By
--

Drawing Title

HVAC DETAILS

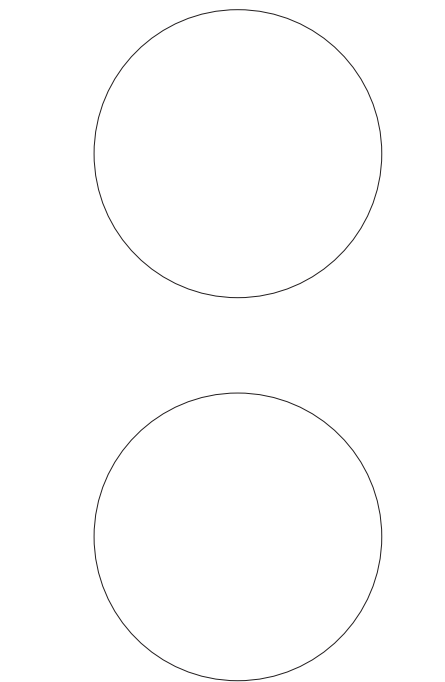
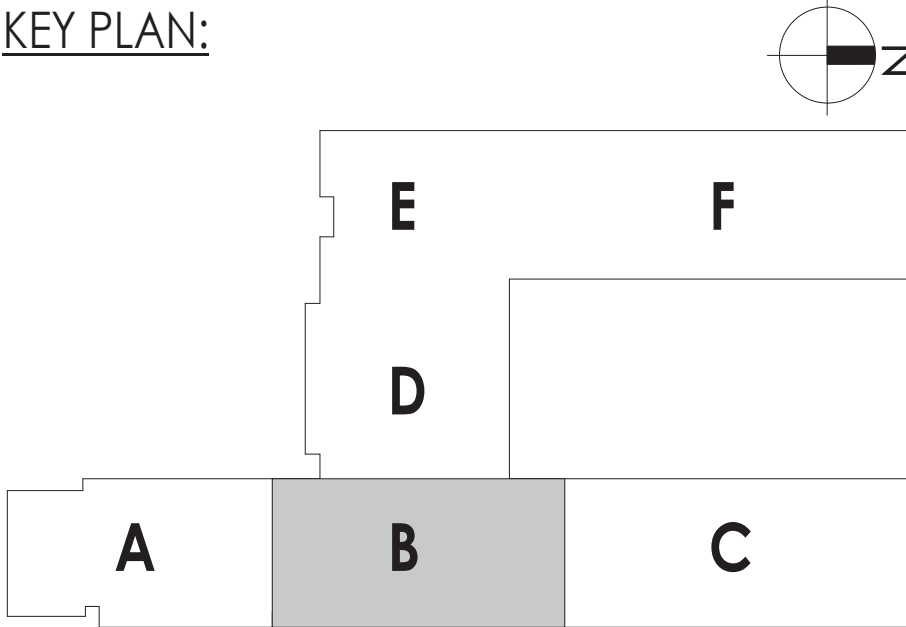
Drawing Number

GEN
H801



1
H101
FIRST FLOOR DEMOLITION PLAN- AREA B
1/8" = 1'-0"

- KEY NOTES:**
- 1 REMOVE EXISTING UNIT VENTILATOR, LOUVER AND SLEEVE TO REMAIN. CUT AND CAP PIPING AT FINTUBE. REFER TO ARCHITECTURAL PLAN. MAINTAIN THE PIPING LOOP. PREPARE FOR NEW WORK.
 - 2 REMOVE EXISTING ROOM TEMPERATURE SENSOR AND WIRING BACK TO CONTROL HEAD END.
 - 3 REMOVE EXISTING GRILLE AND DUCTWORK UP TO ROOF.
 - 4 REMOVE EXISTING HEATING/COOLING UNIT. REMOVE ALL RLL/RSL PIPING FROM UNIT TO CONDENSING UNIT ON ROOF. PRIOR REMOVAL, DRAIN ALL PIPING AND DISPOSE OF ALL REFRIGERANT PER THE LATEST ADAPTED RULES AND REGULATIONS BY THE UNITED STATES ENVIRONMENTAL PROTECTION AGENCY (EPA). CONTRACTOR OR TECHNICIAN PERFORMING THE WORK SHALL BE AN EPA APPROVED AGENT OR ORGANIZATION.
 - 5 REMOVE EXISTING EXHAUST BRANCH DUCTWORK TO POINT INDICATED AND CAP.
 - 6 REMOVE EXISTING CABINET UNIT HEATER, INCLUDING CONTROLS AND WIRING. CUT AND CAP ASSOCIATED PIPING.
 - 7 PREPARE EXISTING EQUIPMENT FOR NEW CONTROLS. **BID ALTERNATE MC-01.**
 - 8 REMOVE EXISTING LOW RELIEF AIR GRILLE IN ROOM AND HIGH RELIEF AIR GRILLE IN COORIDOR. ABANDON DUCTWORK WITHIN WALL. G.C TO PATCH WALL OPENINGS.
 - 9 CAP DUCT AT THIS POINT.
 - 10 REMOVE TRANSFER DUCT AND GRILLES.
 - 11 DISCONNECT DUCTWORK FROM FAN AND PREPARE FOR NEW CONNECTION.



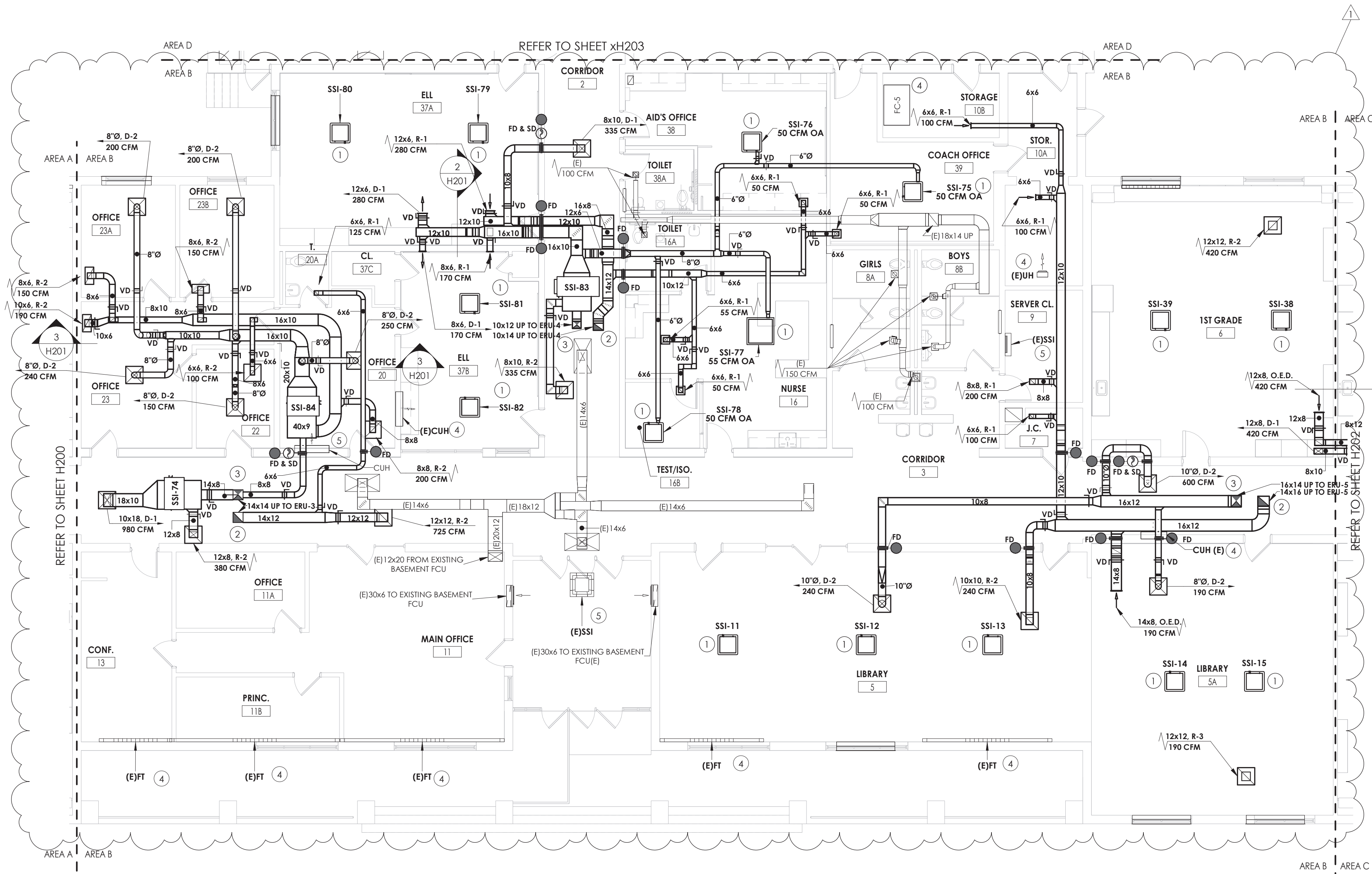


KEY PLAN:

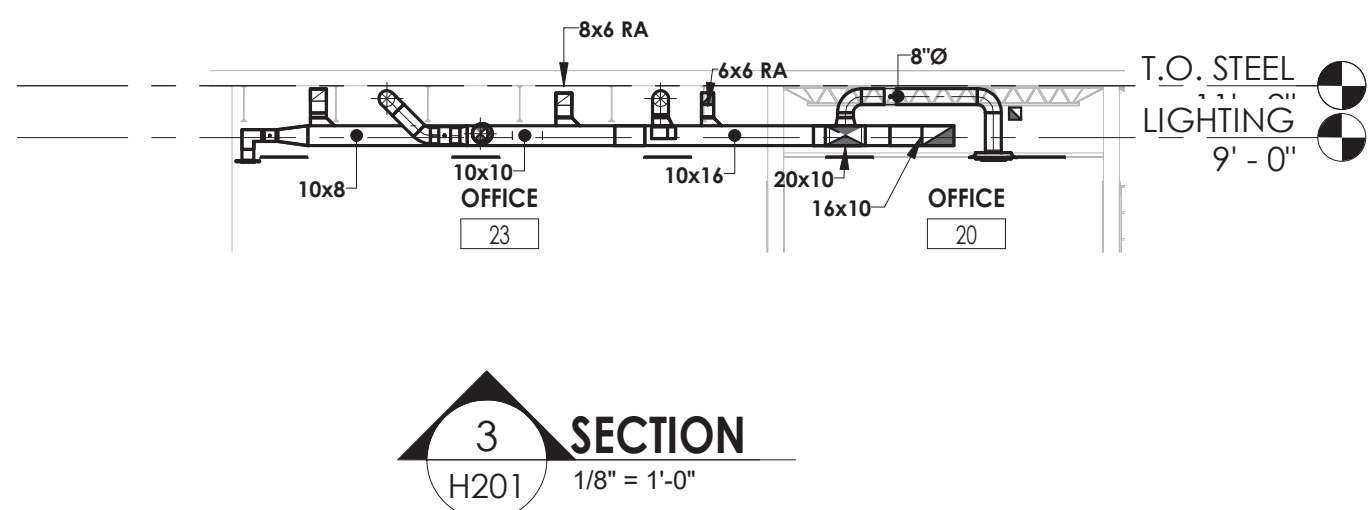
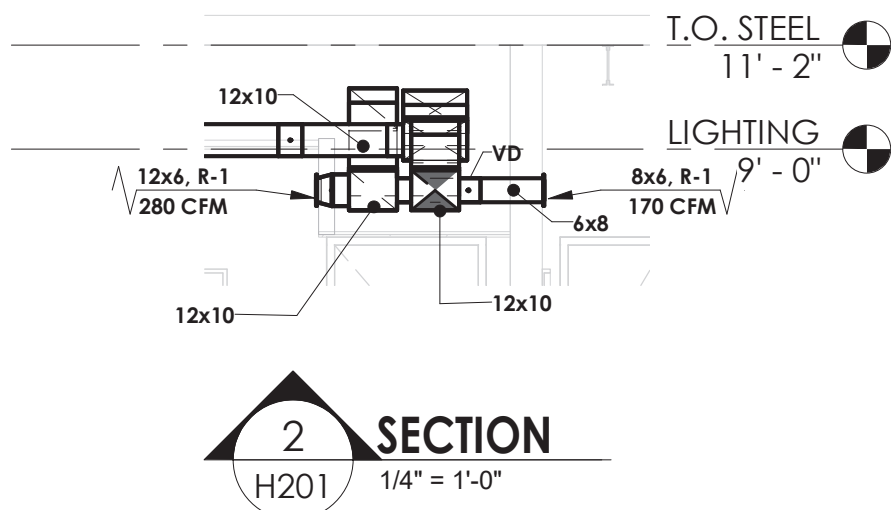
The key plan shows a site layout with six numbered areas. Area B is shaded grey. A north arrow is located in the top right corner, pointing towards the top right of the page.



11/16/2023 3:32:56 PM <project location> REVIT PROJECT FILES ON BIM360



1 FIRST FLOOR HVAC NEW WORK PLAN-AREA B
H201 1/8" = 1'-0"

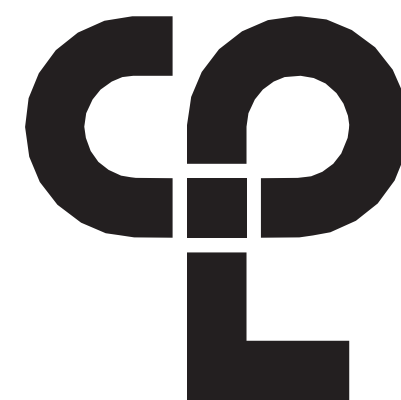


GENERAL NOTES

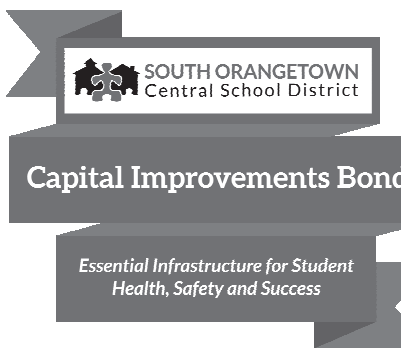
1. MAINTAIN ALL EXISTING ROOF WARRANTIES.

KEY NOTES:

- SSI TO BE INSTALLED IN JOIST SPACE. REMOVE BRACING AS NEEDED FOR INSTALLATION. PROVIDE NEW PROVIDE NEW BRACING IN NEW LOCATION IF EXISTING BRACING IS REMOVED.
- RETURN DUCTWORK TO BE ROUTED IN HALLWAY CEILING. COORDINATE WITH EXISTING UTILITIES AND REFRIGERANT PIPING.
- SUPPLY DUCTWORK TO BE ROUTED IN CEILING. COORDINATE WITH EXISTING UTILITIES AND REFRIGERANT PIPING.
- CONNECT EXISTING EQUIPMENT TO NEW BMS SYSTEM. PROVIDE NEW CONTROL VALVE OR BRACNET CARD DEPENDING UPON THE TYPE OF EQUIPMENT. **BID ALTERNATE MC-01.**
- EQUIPMENT NOT CONNECTED TO NEW BMS SYSTEM.



CPL | Architecture Engineering Planning
50 Front Street Suite 202,
Newburgh, NY 12550
CPLteam.com



PROJECT INFORMATION

Project Number

14457.20

Client Name

SOUTH ORANGETOWN CENTRAL SCHOOL DISTRICT

Project Name

PHASE 1: 2022 BOND

District Office Address

160 VAN WYCK RD. BLAUVELT, NY 10913

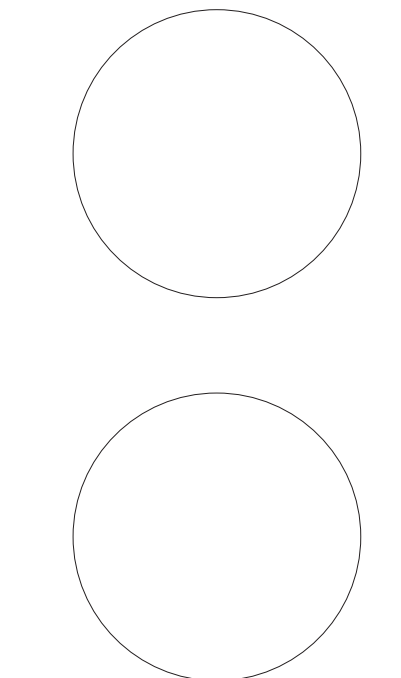
SOUTH ORANGETOWN CSD

- WILLIAM O. SCHAFER SED# 35-03-01-06-010-001
- COTTAGE LANE ELEMENTARY SED# 35-03-01-06-010-002
- TAPPAN ZEE HIGH SCHOOL SED# 35-03-01-06-010-003
- WILLIAM O. SCHAFER SAL SED# 35-03-01-06-010-004
- COTTAGE LANE SAL SED# 35-03-01-06-010-005
- COTTAGE LANE LIBRARY SAL SED# 35-03-01-06-010-006
- WOS OUTDOOR CLASSROOM SED# 35-03-01-06-7-055-001
- WOS OUTDOOR CLASSROOM SED# 35-03-01-06-7-055-002
- CLE OUTDOOR CLASSROOM SED# 35-03-01-06-7-055-003
- 1245 OUTDOOR CLASSROOM SED# 35-03-01-06-7-055-004

PROJECT ISSUE & REVISION SCHEDULE

| No. | Date | Description |
|-----|------------|-----------------|
| 1 | 11/17/2023 | BID ADDENDUM #4 |

PROFESSIONAL STAMPS



NEW YORK STATE EDUCATION STATEMENT

IF IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND THE COMMISSIONERS' REGULATIONS FOR ANY PERSON, UNDER ACTUAL OR IMMINENT THREAT OF A VIOLATION, ARCHITECT, ENGINEER OR LAND SURVEYOR, TO ACT AS SUCH IN ANY WAY, IF ANY, BEING THE SIGN OF ANY ARCHITECT, ENGINEER OR LAND SURVEYOR, THE SIGNATURE, PRINT NAME AND TITLE OF THE SIGNER, AND THE SIGNATURE, PRINT NAME AND TITLE OF THE ARCHITECT, ENGINEER OR LAND SURVEYOR, AND A SPECIFIC DESCRIPTION OF THE VIOLATION.

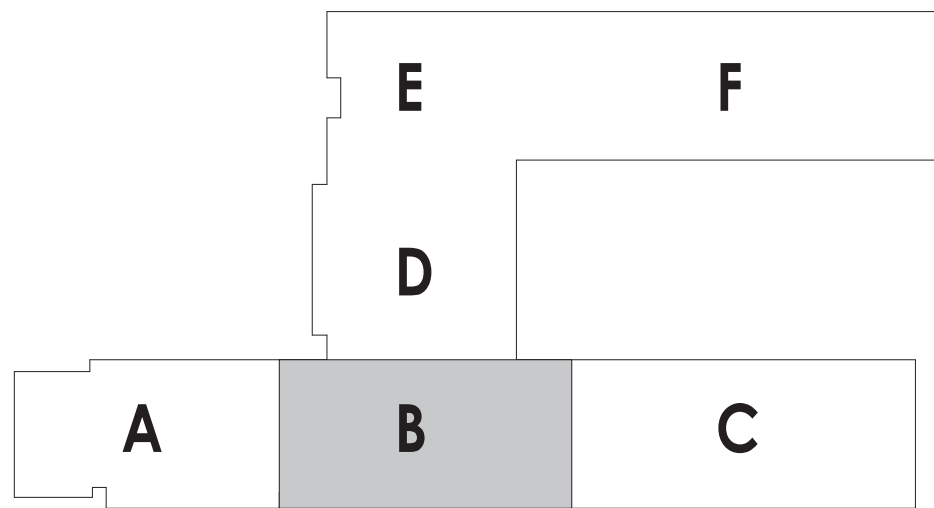
SHEET INFORMATION

Issued 10/18/2023 Scale As indicated
Project Status
BID DOCUMENTS
Drawn By KCM Checked By JJM
Drawing Title
FIRST FLOOR HVAC NEW WORK PLAN- AREA B

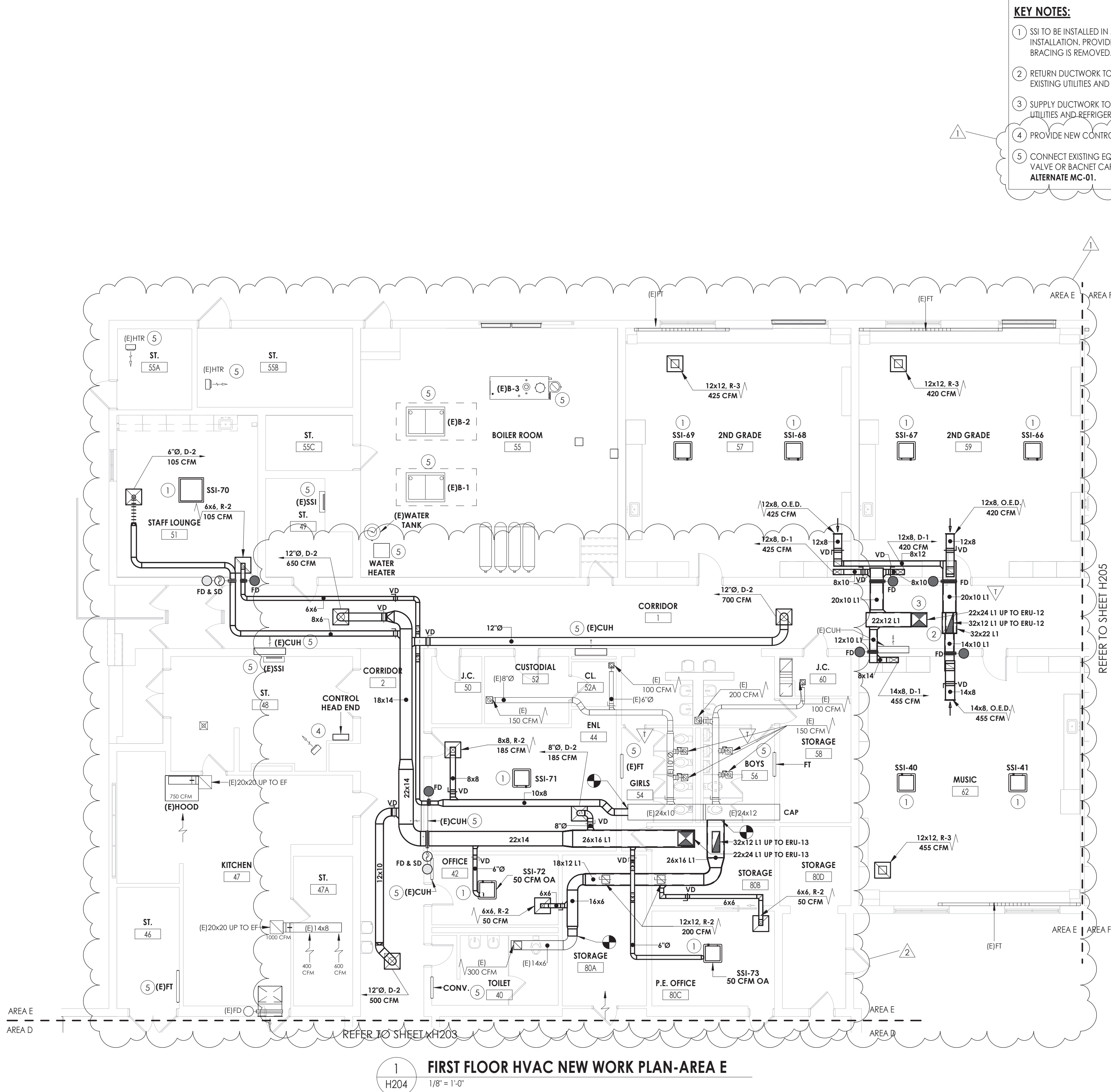
Drawing Number

WOS
H201

KEY PLAN:



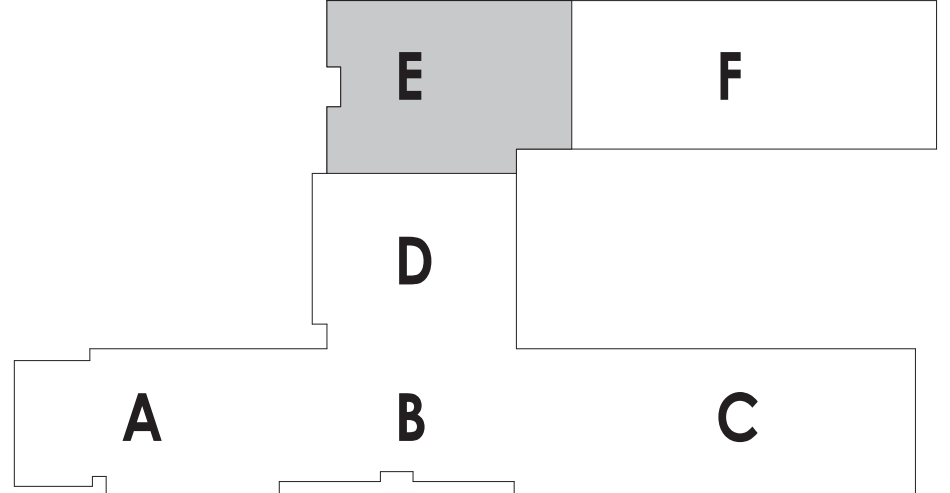
11/16/2023 2:06:32 PM <project location> REVIT PROJECT FILES ON BIM360



1
H204
1/8" = 1'-0"

- KEY NOTES:**
- 1 SSI TO BE INSTALLED IN JOIST SPACE. REMOVE BRACING AS NEEDED FOR INSTALLATION. PROVIDE NEW BRACING IN NEW LOCATION IF EXISTING BRACING IS REMOVED.
 - 2 RETURN DUCTWORK TO BE ROUTED IN HALLWAY CEILING. COORDINATE WITH EXISTING UTILITIES AND REFRIGERANT PIPING.
 - 3 SUPPLY DUCTWORK TO BE ROUTED IN CEILING. COORDINATE WITH EXISTING UTILITIES AND REFRIGERANT PIPING.
 - 4 PROVIDE NEW CONTROLS HEAD END. **BID ALTERNATE MC-01.**
 - 5 CONNECT EXISTING EQUIPMENT TO NEW BMS SYSTEM. PROVIDE NEW CONTROL VALVE OR BACNET CARD DEPENDING UPON THE TYPE OF EQUIPMENT. **BID ALTERNATE MC-01.**

KEY PLAN:



CPL | Architecture Engineering Planning
50 Front Street Suite 202,
Newburgh, NY 12550
CPLteam.com

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

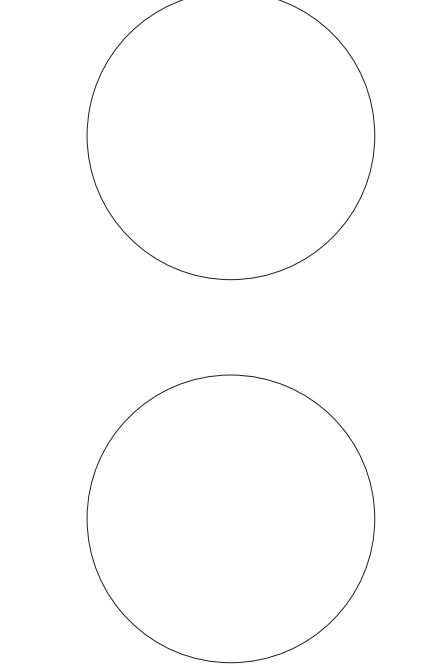
PROJECT INFORMATION
Project Number
14457.20
Client Name
SOUTH ORANGETOWN CENTRAL SCHOOL DISTRICT
Project Name
PHASE 1: 2022 BOND

District Office Address
160 VAN WYCK RD. BLAUVELT, NY 10913

- SOUTH ORANGETOWN CSD
- WILLIAM O. SCHAFER SED# 35-03-01-06-010-02-019
 - COTTAGE LANE ELEMENTARY SED# 35-03-01-06-010-02-022
 - TAPPAN ZEE HIGH SCHOOL SED# 35-03-01-06-010-02-023
 - WILLIAM O. SCHAFER SAL SED# 35-03-01-06-010-02-020
 - COTTAGE LANE SAL SED# 35-03-01-06-010-02-023
 - COTTAGE LANE LIBRARY SAL SED# 35-03-01-06-010-02-023
 - WOS OUTDOOR CLASSROOM SED# 35-03-01-06-7-035-001
 - SCONE OUTDOOR CLASSROOM SED# 35-03-01-06-7-036-001
 - CLE OUTDOOR CLASSROOM SED# 35-03-01-06-7-034-001
 - THS OUTDOOR CLASSROOM SED# 35-03-01-06-7-035-001

| No. | Date | Description |
|-----|------------|-----------------|
| 1 | 10/27/2023 | BID ADDENDUM #1 |
| 2 | 11/17/2023 | BID ADDENDUM #4 |

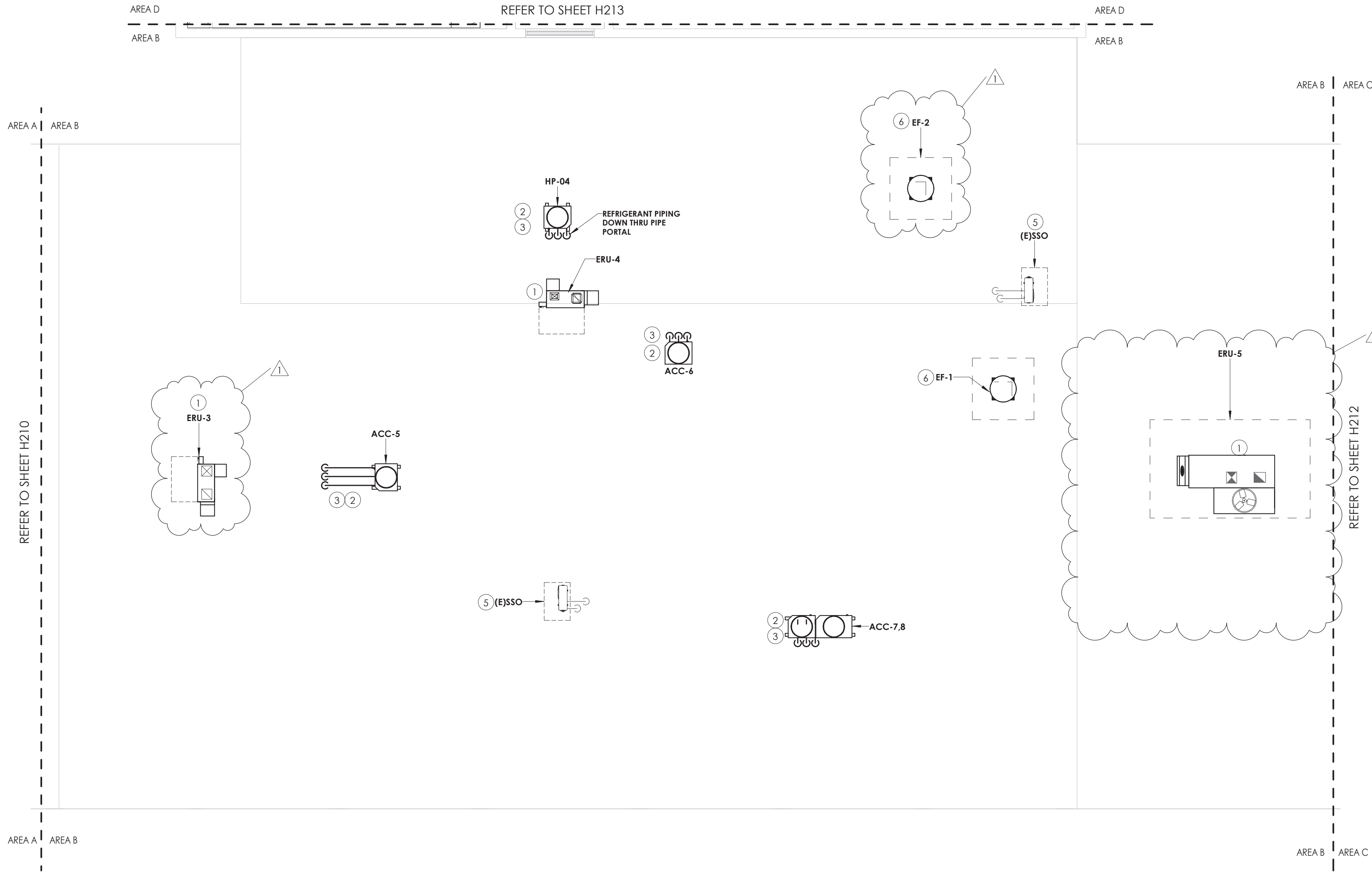
PROFESSIONAL STAMPS



NEW YORK STATE EDUCATION STATEMENT
I, the undersigned, being a duly licensed Architect under the laws of the State of New York, do hereby certify that the above described work was prepared by me or under my direct supervision and that I am a duly licensed Architect under the laws of the State of New York.

| SHEET INFORMATION | |
|---|--------------|
| Issued | Scale |
| 10/18/2023 | 1/8" = 1'-0" |
| Project Status | |
| BID DOCUMENTS | |
| Drawn By | Checked By |
| KCM | JJM |
| Drawing Title | |
| FIRST FLOOR HVAC NEW WORK PLAN- AREA E | |

Drawing Number
**WOS
H204**



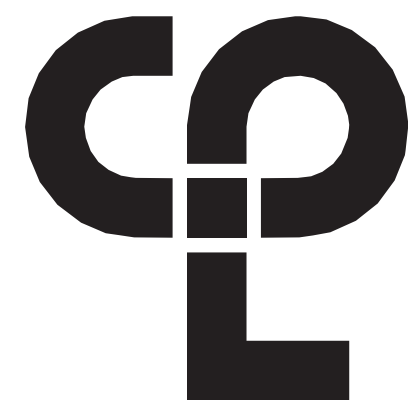
1
H211
ROOF NEW WORK PLAN- AREA B
1/8" = 1'-0"

GENERAL NOTES

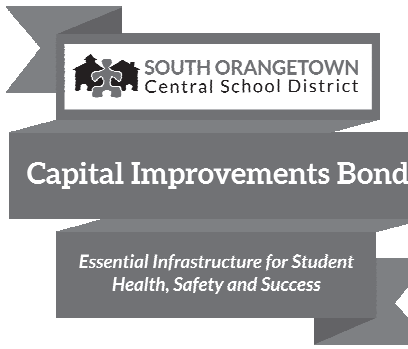
1. MAINTAIN ALL EXISTING ROOF WARRANTIES.

KEY NOTES

- 1 PROVIDE ERU ON INSULATED CURB WITH VIBRATION INSULATION.
- 2 PROVIDE WITH 12" EQUIPMENT RAILS, VIBRATION INSULATION AND PIPE PORTAL.
- 3 ROUTE NEW RS/RL LINES DOWN THROUGH ROOF. COORDINATE WITH EXISTING ROOFING AND STRUCTURE. INSTALL PER MANUFACTURERS INSTRUCTIONS.
- 4 CONNECT EXISTING EQUIPMENT TO NEW BMS SYSTEM. PROVIDE NEW CONTROL VALVE OR BACNET CARD DEPENDING UPON THE TYPE OF EQUIPMENT. **BID ALTERNATE MC-01.**
- 5 EXISTING EQUIPMENT NOT CONNECTED TO BMS.
- 6 PROVIDE NEW INSULATED ROOF CURB.



CPL | Architecture Engineering Planning
50 Front Street Suite 202,
Newburgh, NY 12550
CPLteam.com



PROJECT INFORMATION

Project Number
14457.20
Client Name
SOUTH ORANGETOWN CENTRAL SCHOOL DISTRICT
Project Name
PHASE 1: 2022 BOND

District Office Address
160 VAN WYCK RD. BLAUVELT, NY 10913

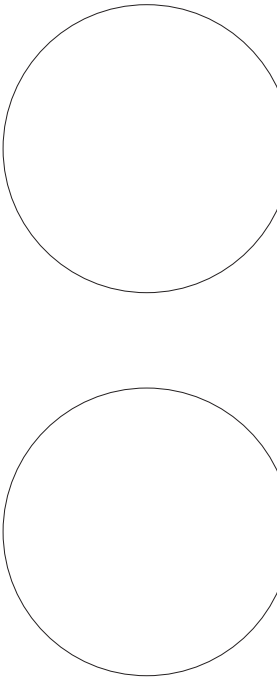
SOUTH ORANGETOWN CSD

- WILLIAM O. SCHAFER SED# 35-03-01-06-0-010-2-019
- COTTAGE LANE ELEMENTARY SED# 35-03-01-06-0-010-022
- TAPPAN ZEE HIGH SCHOOL SED# 35-03-01-06-0-006-002
- WILLIAM O. SCHAFER SAL SED# 35-03-01-06-0-010-020
- COTTAGE LANE SAL SED# 35-03-01-06-0-010-023
- COTTAGE LANE LIBRARY SAL SED# 35-03-01-06-8-023-002
- WOS OUTDOOR CLASSROOM SED# 35-03-01-06-7-035-001
- SCONE OUTDOOR CLASSROOM SED# 35-03-01-06-7-036-001
- CLE OUTDOOR CLASSROOM SED# 35-03-01-06-7-034-001
- T2H5 OUTDOOR CLASSROOM SED# 35-03-01-06-7-035-001

PROJECT ISSUE & REVISION SCHEDULE

| No. | Date | Description |
|-----|------------|-----------------|
| 1 | 11/17/2023 | BID ADDENDUM #4 |

PROFESSIONAL STAMPS



NEW YORK STATE EDUCATION STATEMENT
IF IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND THE COMMISSIONERS
REGULATIONS FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED
ARCHITECT, ENGINEER OR LAND SURVEYOR, TO ACT AS AN ARCHITECT, ENGINEER OR LAND SURVEYOR
BEARING THE SEAL OF AN ARCHITECT, ENGINEER OR LAND SURVEYOR, THE ATTESTING
PARTY SHALL AFFIX TO THE DRAWING THE SIGNATURE AND THE DATE OF SUCH ATTESTATION, AND A SPECIFIC DESCRIPTION OF THE
ALTERNATION.

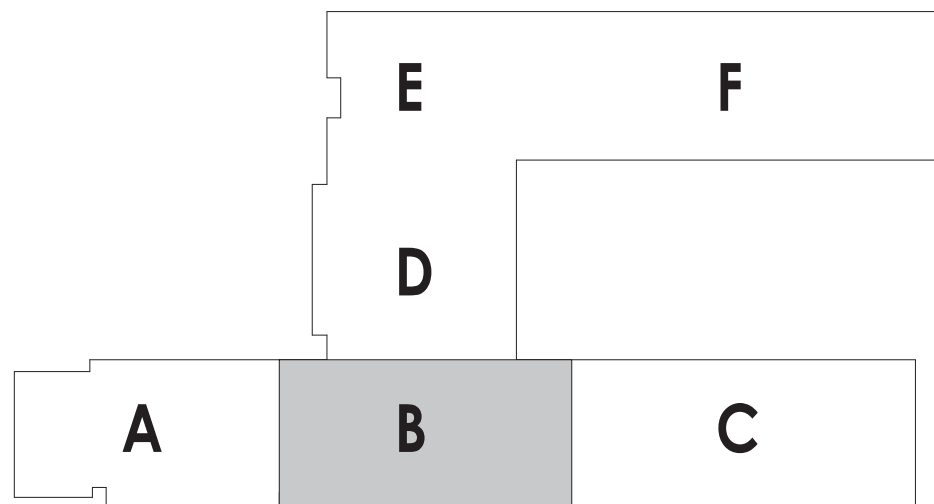
SHEET INFORMATION

Issued
10/18/2023
Scale
1/8" = 1'-0"
Project Status
BID DOCUMENTS
Drawn By
KCM
Checked By
JJM
Drawing Title
ROOF HVAC NEW WORK
PLAN-AREA B

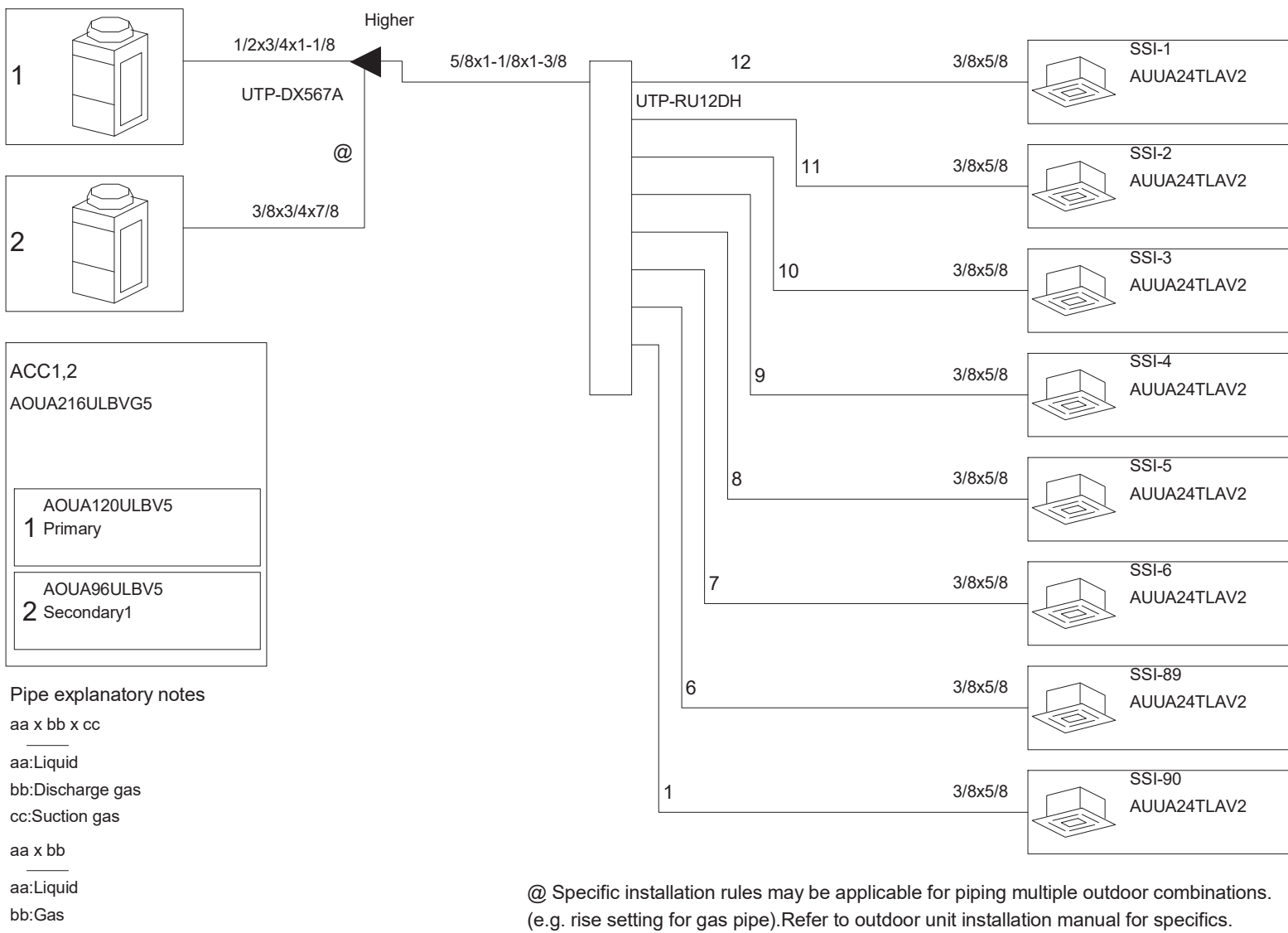
Drawing Number

WOS
H211

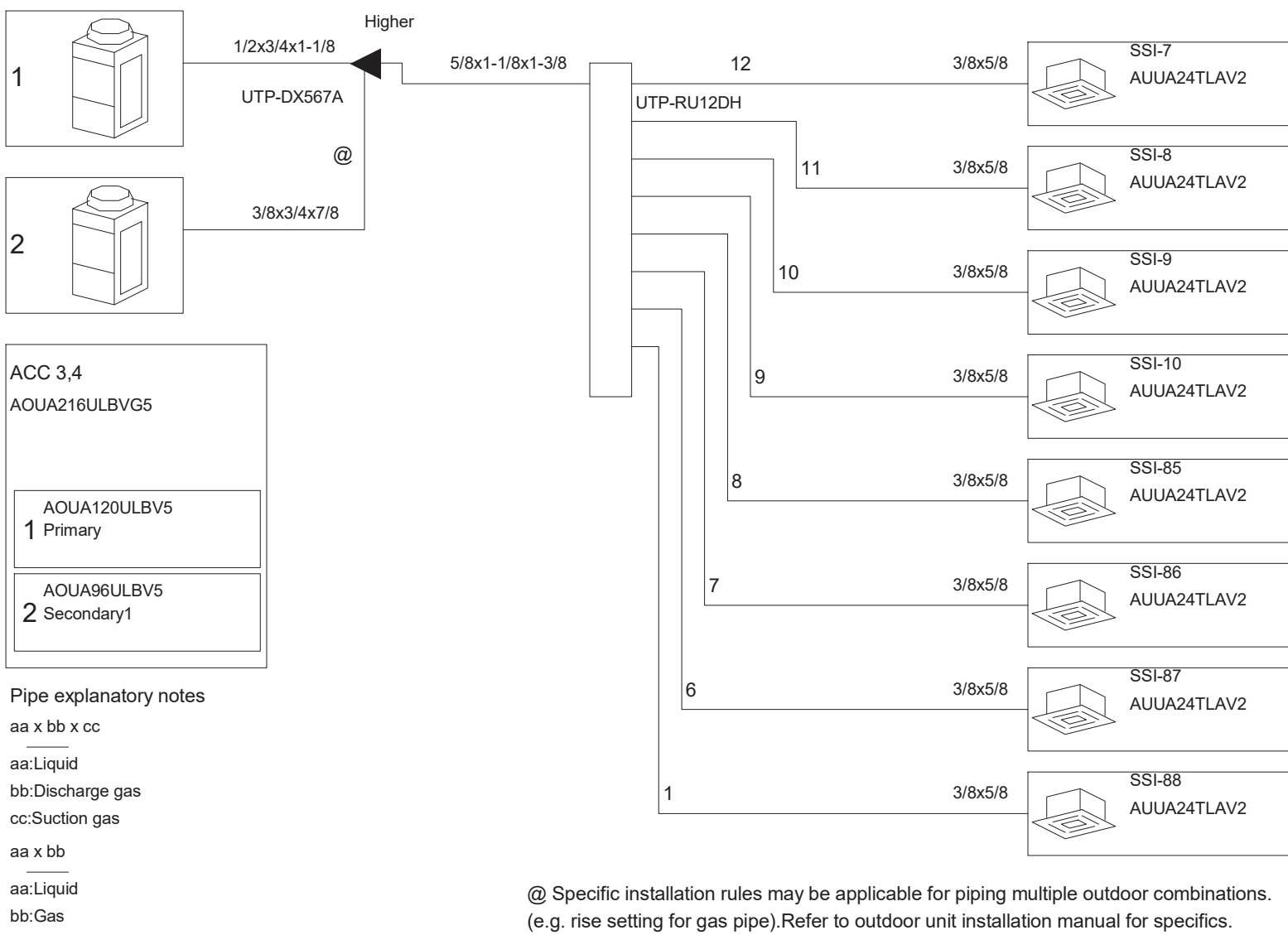
KEY PLAN:



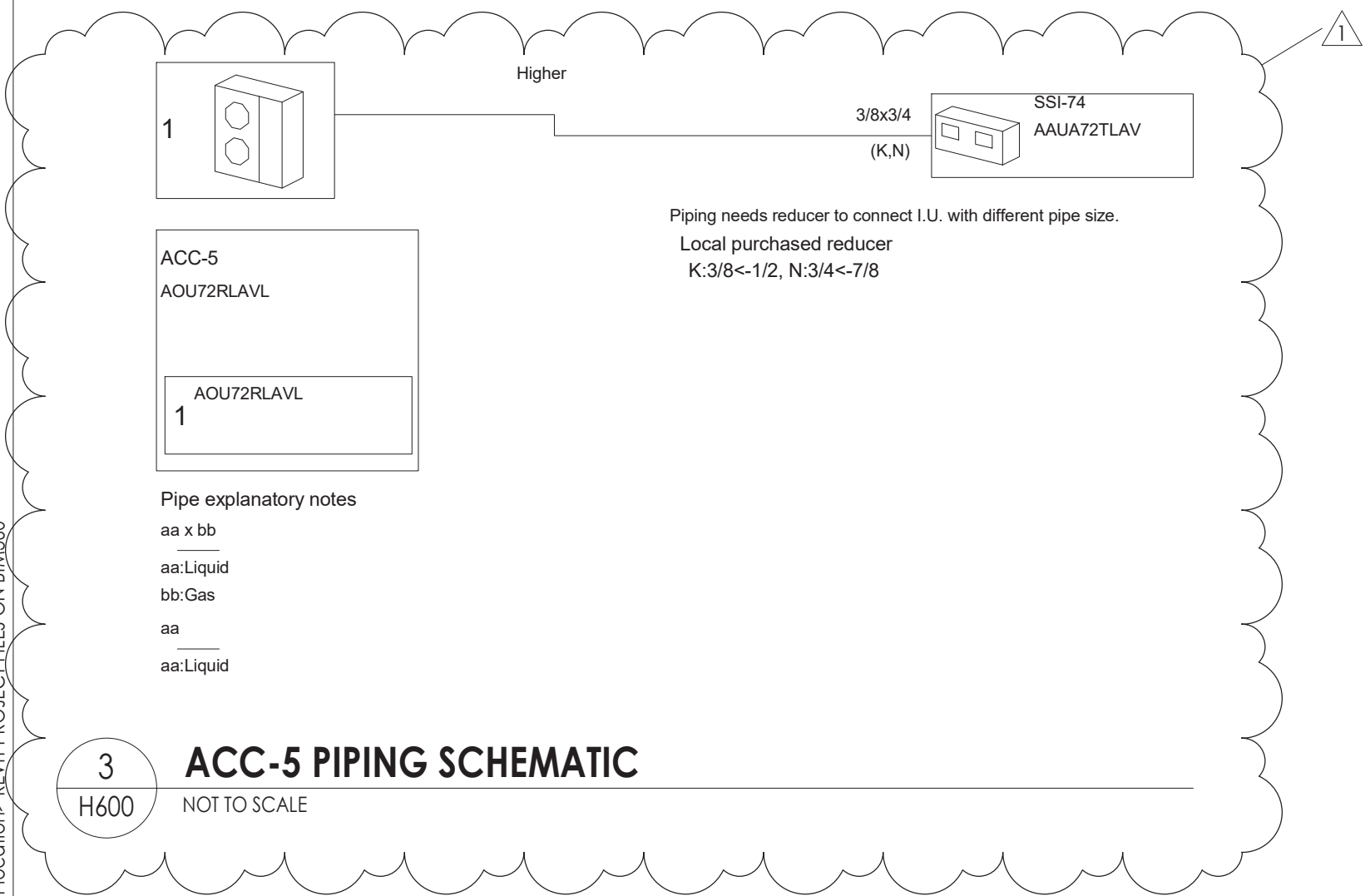




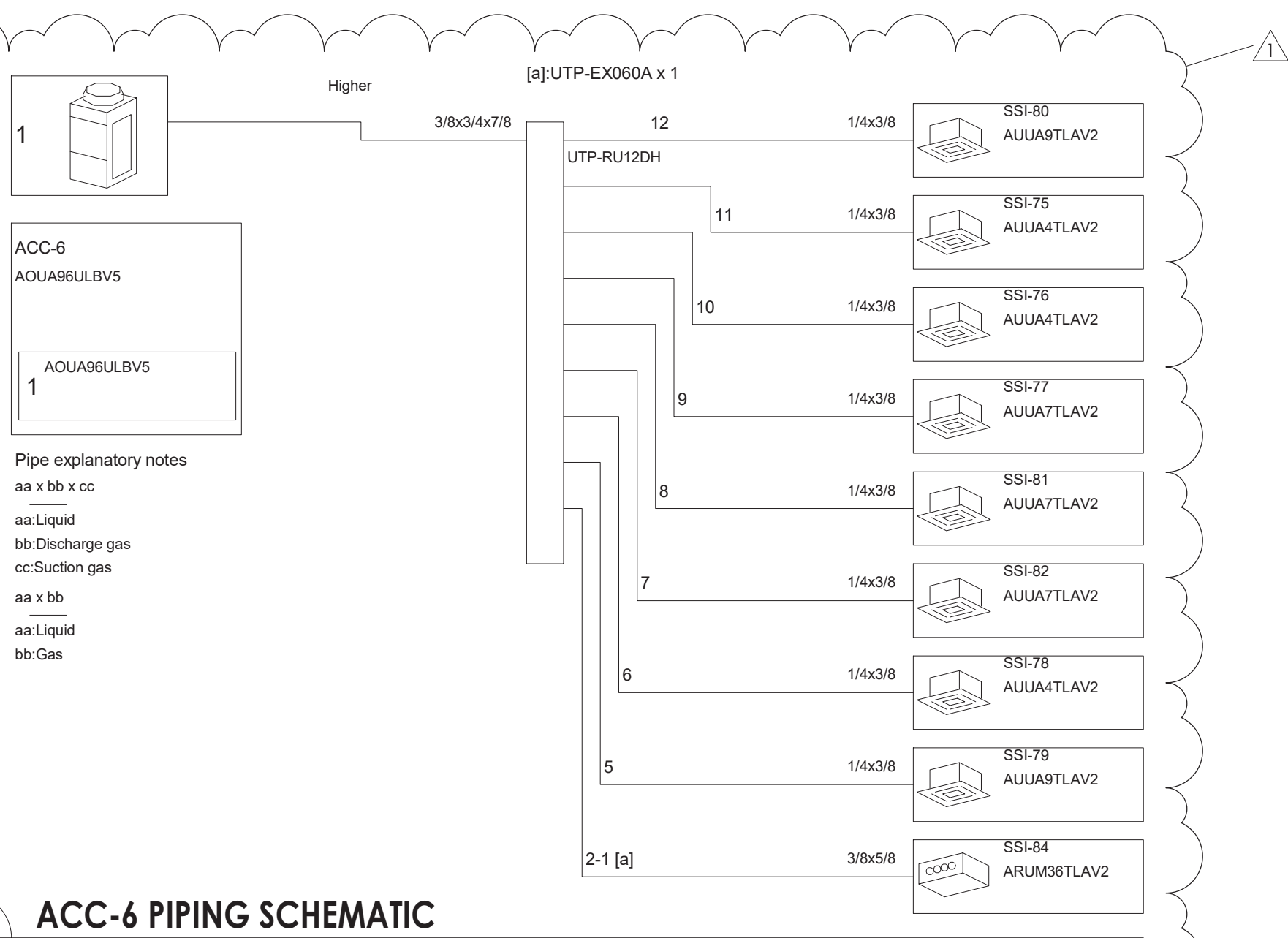
1
H600
NOT TO SCALE



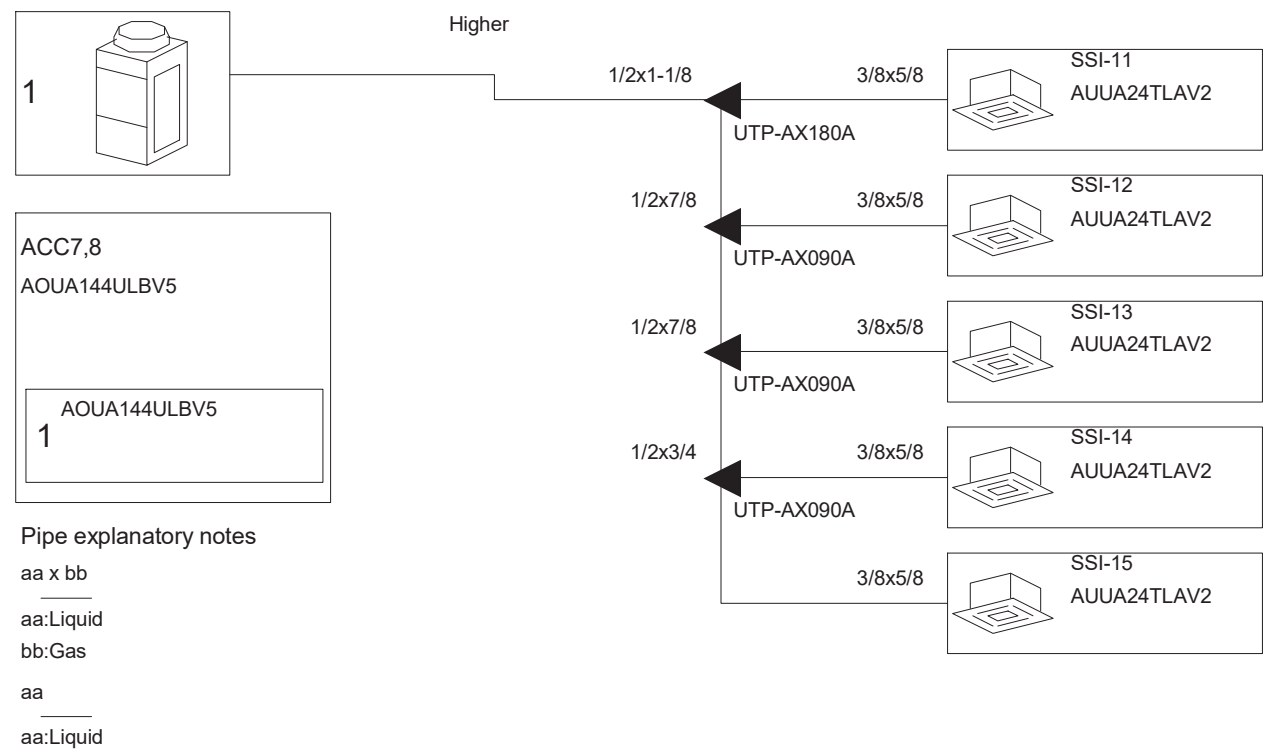
2
H600
NOT TO SCALE



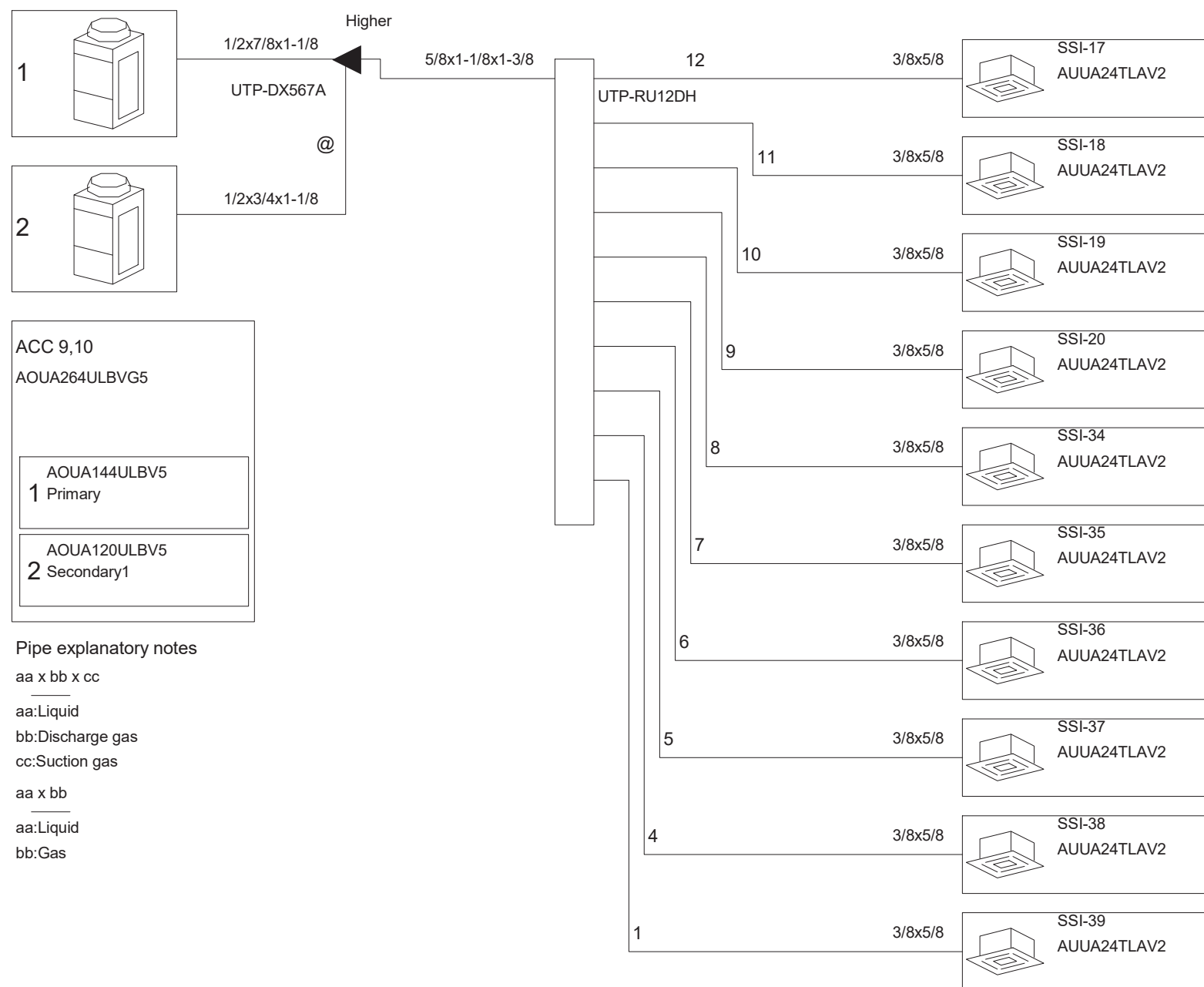
3
H600
NOT TO SCALE



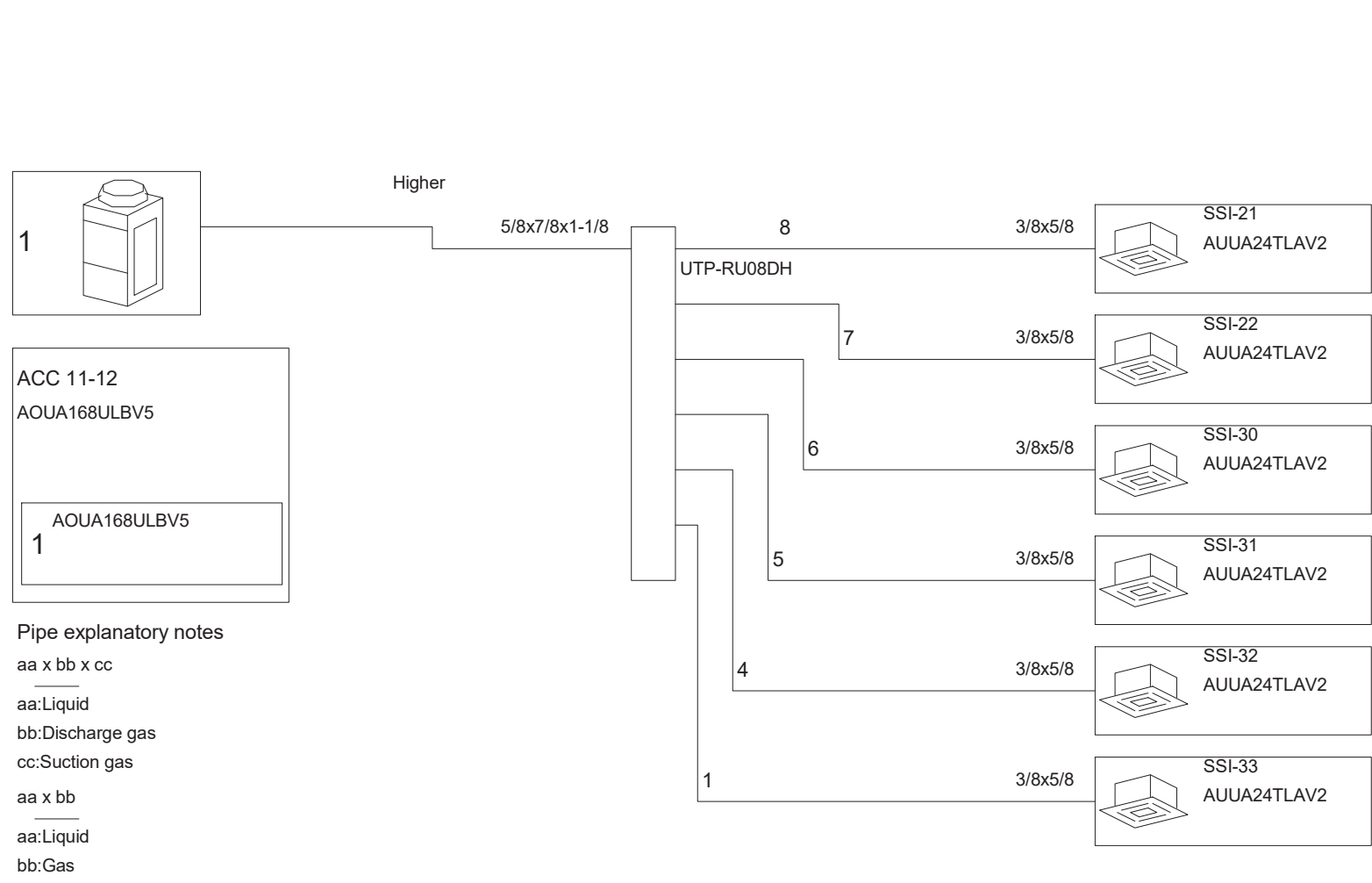
4
H600
NOT TO SCALE



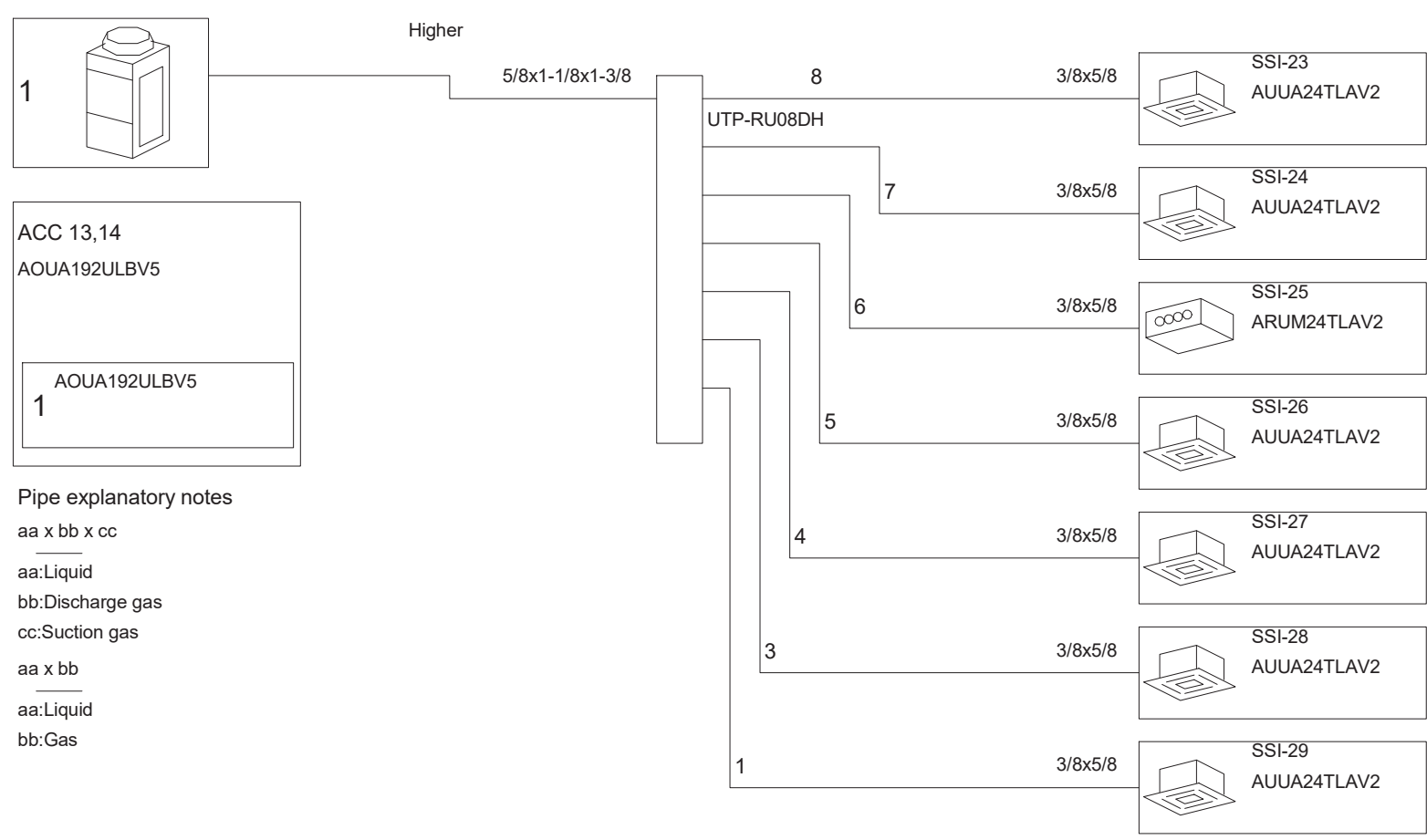
5
H600
NOT TO SCALE



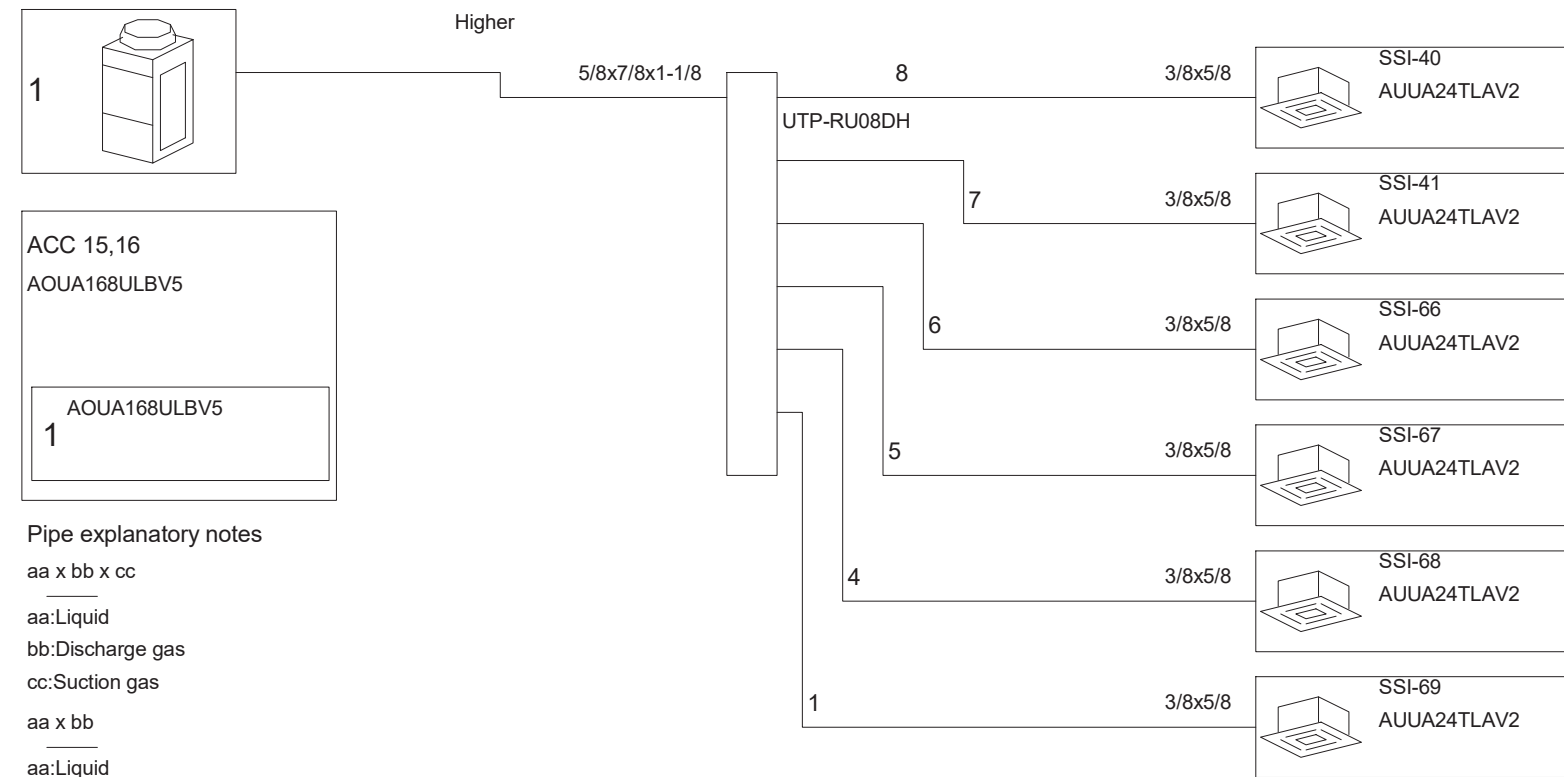
6
H600
NOT TO SCALE



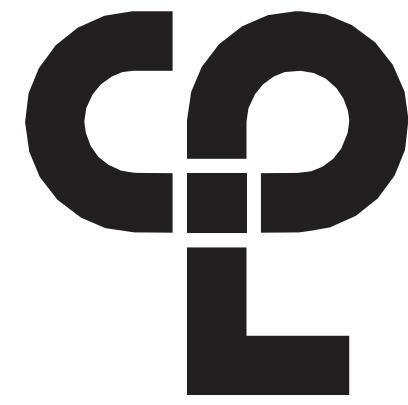
7
H600
NOT TO SCALE



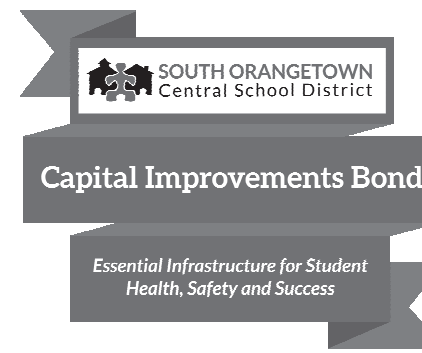
8
H600
NOT TO SCALE



9
H600
NOT TO SCALE



CPL | Architecture Engineering Planning
50 Front Street Suite 202,
Newburgh, NY 12550
CPLteam.com



PROJECT INFORMATION

Project Number

14457.20

Client Name

SOUTH ORANGETOWN
SCHOOL DISTRICT

Project Name

PHASE 1: 2022 BOND

District Office Address

160 VAN WYCK RD. BLAUVELT, NY 10913

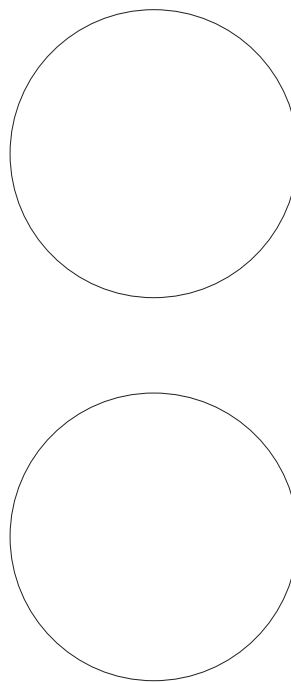
SOUTH ORANGETOWN CSD

- ☒ WILLIAM O. SCHAFER SED# 35-03-01-06-010-2-019
- ☐ COTTAGE LANE ELEMENTARY SED# 35-03-01-06-010-022
- ☐ TAPPAN ZEE HIGH SCHOOL SED# 35-03-01-06-010-022
- ☐ WILLIAM O. SCHAFER SAL SED# 35-03-01-06-010-022
- ☐ COTTAGE LANE SAL SED# 35-03-01-06-010-022
- ☐ COTTAGE LANE LIBRARY SAL SED# 35-03-01-06-023-002
- ☐ WOS OUTDOOR CLASSROOM SED# 35-03-01-06-7-035-001
- ☐ SCONE OUTDOOR CLASSROOM SED# 35-03-01-06-7-036-001
- ☐ CLE OUTDOOR CLASSROOM SED# 35-03-01-06-7-034-001
- ☐ 12HS OUTDOOR CLASSROOM SED# 35-03-01-06-7-035-001

PROJECT ISSUE & REVISION SCHEDULE

| No. | Date | Description |
|-----|------------|-----------------|
| 1 | 11/17/2023 | BID ADDENDUM #4 |

PROFESSIONAL STAMPS



NEW YORK STATE EDUCATION LAW AND THE COMMISSIONERS' REGULATIONS FOR ANY PERSON, UNDER ACTING UNDER THE SUPERVISION OF A LICENSED ARCHITECT, ENGINEER OR LAND SURVEYOR, TO ACT AS AN ARCHITECT, ENGINEER OR LAND SURVEYOR, WITHOUT BEING THE SIGNATURE OF AN ARCHITECT, ENGINEER OR LAND SURVEYOR, IS A VIOLATION OF THE EDUCATION LAW AND THE COMMISSIONERS' REGULATIONS. ANY PERSON WHO VIOLATES THIS PROHIBITION SHALL BE SUBJECT TO THE PENALTIES PROVIDED BY THE EDUCATION LAW AND THE COMMISSIONERS' REGULATIONS. ANY PERSON WHO VIOLATES THIS PROHIBITION SHALL BE SUBJECT TO THE PENALTIES PROVIDED BY THE EDUCATION LAW AND THE COMMISSIONERS' REGULATIONS.

SHEET INFORMATION

Issued

10/18/2023

Project Status

BID DOCUMENTS

Drawn By

KCM

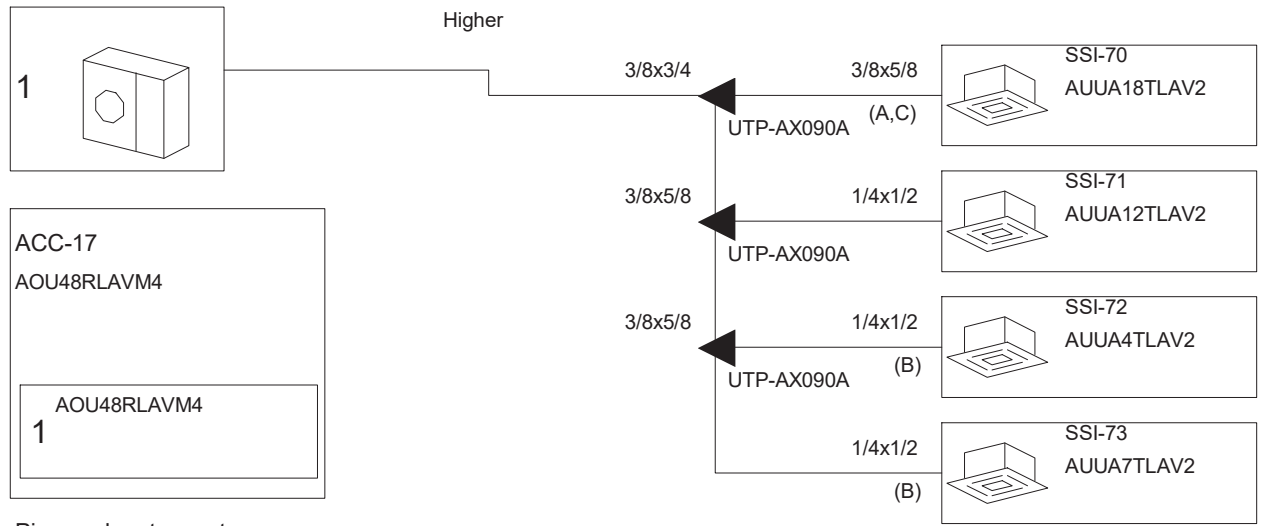
Drawing Title

VRF PIPING

Drawing Number

WOS

H600

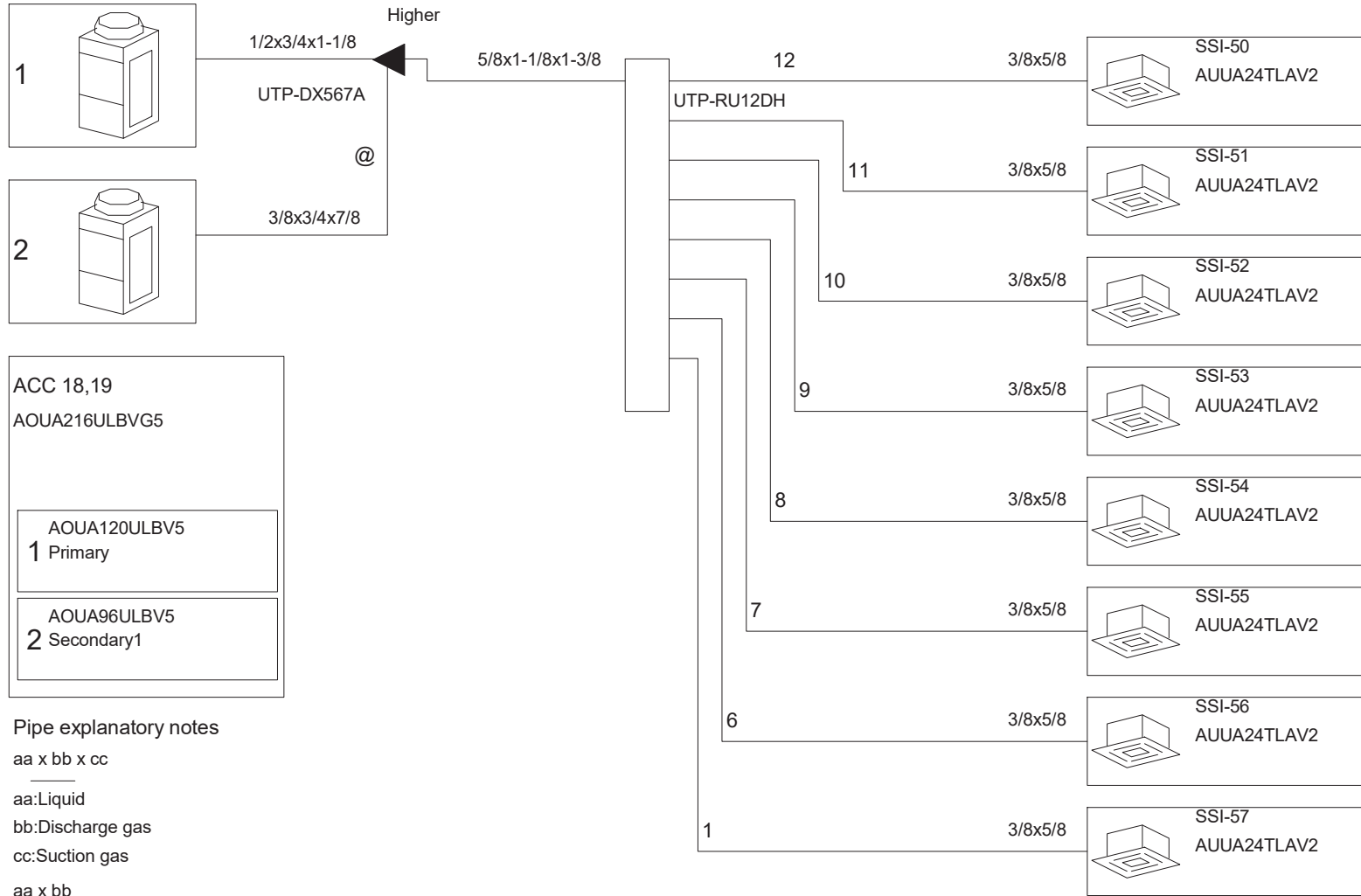


Pipe explanatory notes
aa x bb
aa:Liquid
bb:Gas
aa
aa:Liquid

Piping needs reducer to connect I.U. with different pipe size.
Local purchased expander
A:3/8<-1/4, B:1/2<-3/8, C:5/8<-1/2

1 ACC-17 PIPING SCHEMATIC

NOT TO SCALE

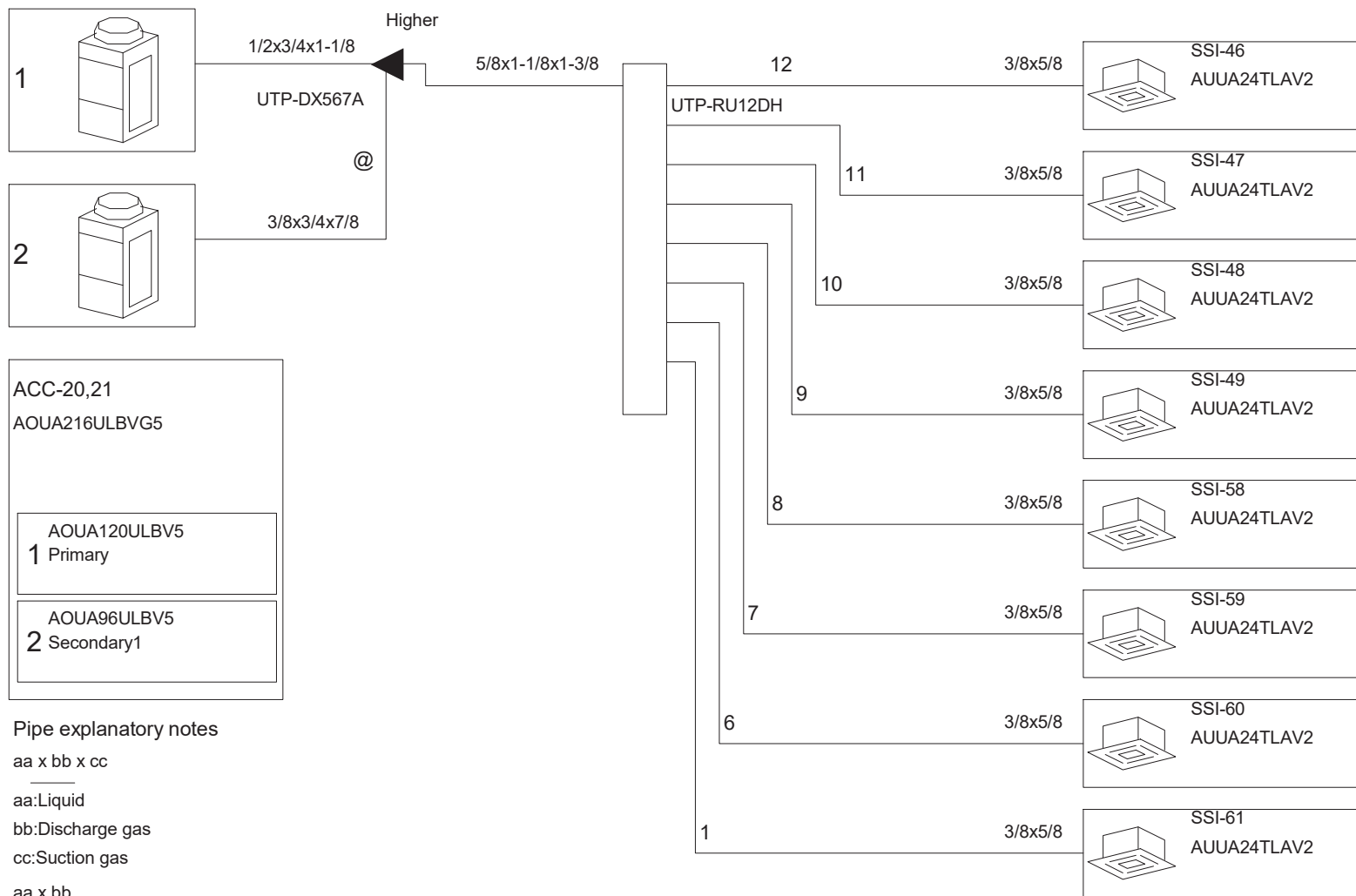


Pipe explanatory notes
aa x bb x cc
aa:Liquid
bb:Discharge gas
cc:Suction gas
aa x bb
aa:Liquid
bb:Gas

@ 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 ACC-18,19 PIPING SCHEMATIC

NOT TO SCALE

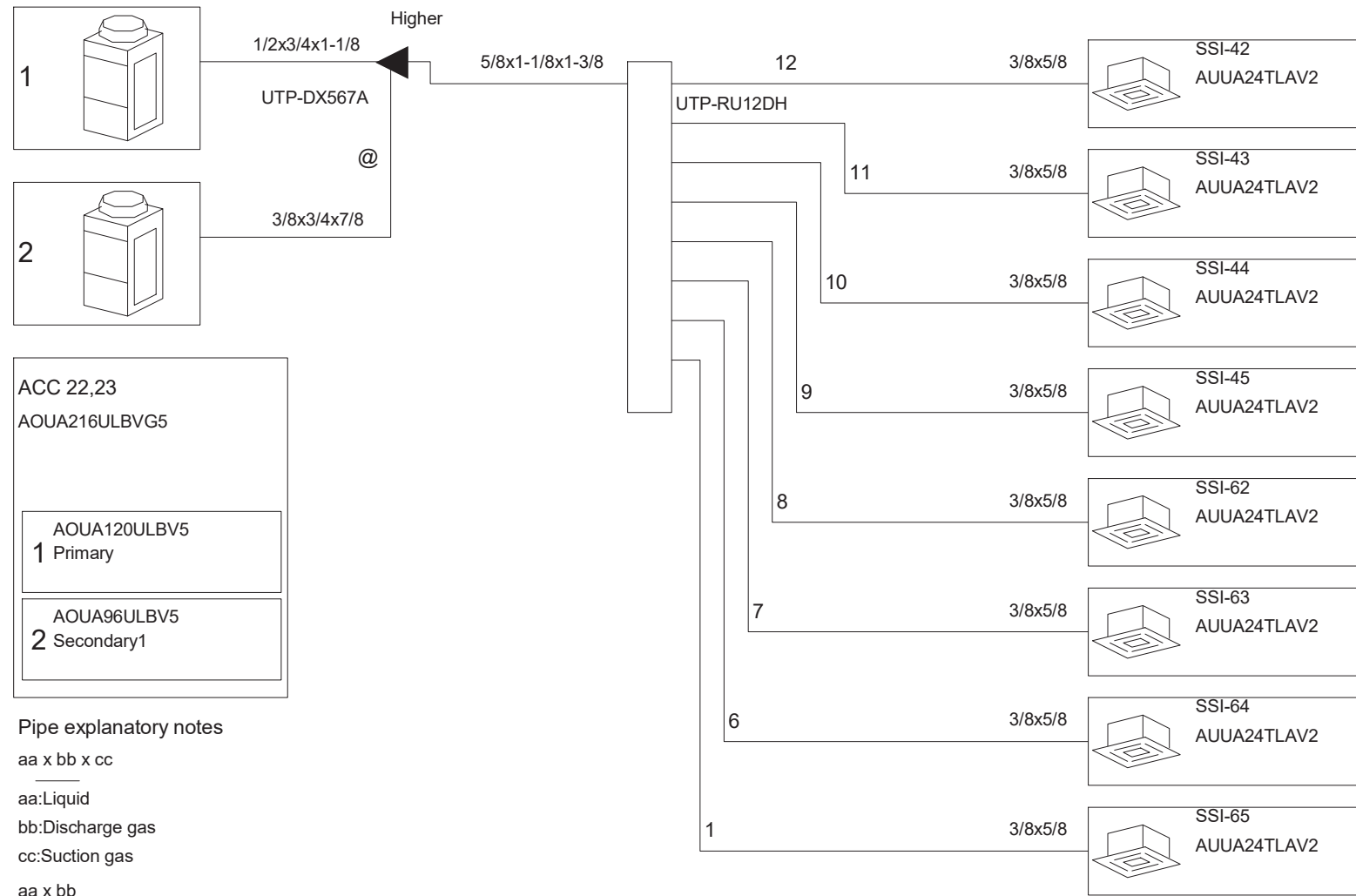


Pipe explanatory notes
aa x bb x cc
aa:Liquid
bb:Discharge gas
cc:Suction gas
aa x bb
aa:Liquid
bb:Gas

@ 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 ACC-20,21 PIPING SCHEMATIC

NOT TO SCALE

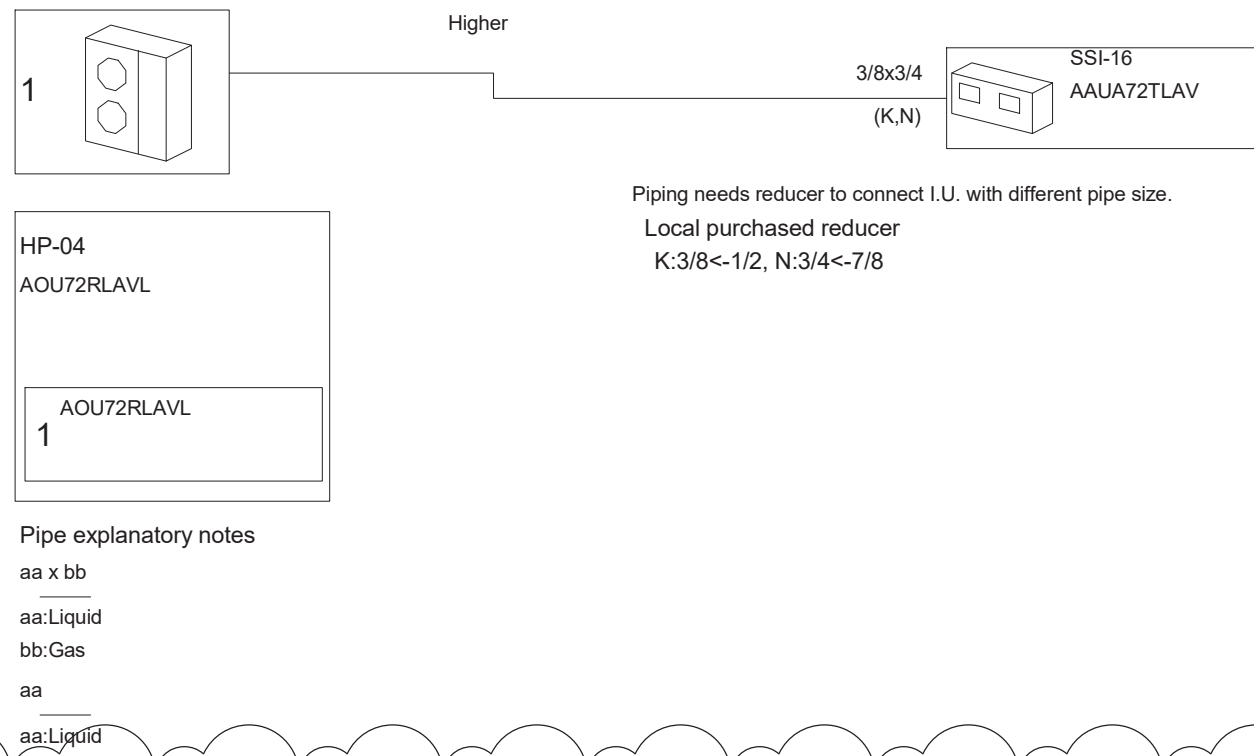


Pipe explanatory notes
aa x bb x cc
aa:Liquid
bb:Discharge gas
cc:Suction gas
aa x bb
aa:Liquid
bb:Gas

@ 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 ACC-22,23 PIPING SCHEMATIC

NOT TO SCALE

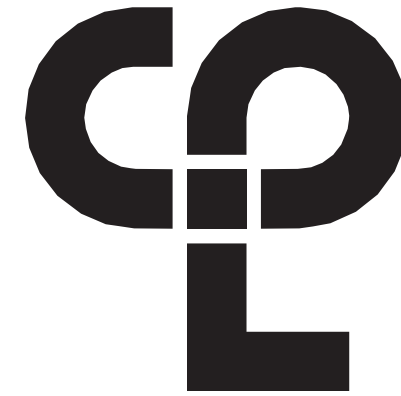


Pipe explanatory notes
aa x bb
aa:Liquid
bb:Gas
aa
aa:Liquid

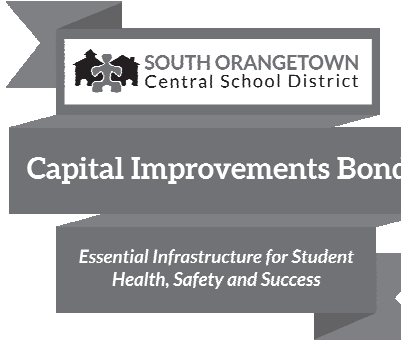
Piping needs reducer to connect I.U. with different pipe size.
Local purchased reducer
K:3/8<-1/2, N:3/4<-7/8

5 HP-4 PIPING SCHEMATIC

NOT TO SCALE



CPL | Architecture Engineering Planning
50 Front Street Suite 202,
Newburgh, NY 12550
CPLteam.com



PROJECT INFORMATION

Project Number
14457.20

Client Name

**SOUTH ORANGETOWN
SCHOOL DISTRICT**

Project Name

PHASE 1: 2022 BOND

District Office Address

160 VAN WYCK RD. BLAUVELT, NY 10913

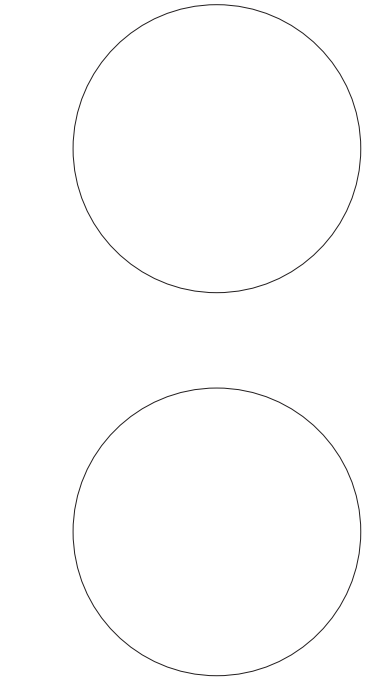
SOUTH ORANGETOWN CSD

- ☒ WILLIAM O. SCHAFER SEDF: 50-03-01-06-0-010-2-019
- ☐ COTTAGE LANE ELEMENTARY SEDF: 50-03-01-06-0-010-022
- ☐ TAPPAN ZEE HIGH SCHOOL SEDF: 50-03-01-06-0-004-002
- ☐ WILLIAM O. SCHAFER SAL SEDF: 50-03-01-06-0-010-020
- ☐ COTTAGE LANE SAL SEDF: 50-03-01-06-0-010-023
- ☐ COTTAGE LANE LIBRARY SAL SEDF: 50-03-01-06-8-023-002
- ☐ WOS OUTDOOR CLASSROOM SEDF: 50-03-01-06-7-035-001
- ☐ SCONE OUTDOOR CLASSROOM SEDF: 50-03-01-06-7-036-001
- ☐ CLE OUTDOOR CLASSROOM SEDF: 50-03-01-06-7-034-001
- ☐ TMS OUTDOOR CLASSROOM SEDF: 50-03-01-06-7-035-001

PROJECT ISSUE & REVISION SCHEDULE

| No. | Date | Description |
|-----|------------|-----------------|
| 1 | 11/17/2023 | BID ADDENDUM #4 |

PROFESSIONAL STAMPS



NEW YORK STATE EDUCATION STATEMENT
I, as a VOUCHER OF THE NEW YORK STATE EDUCATION LAW AND THE COMMISSIONERS
REGULATIONS FOR ANY PERSON, UNDER ACTING UNDER THE SUPERVISION OF A COUNCIL
ARCHITECT, ENGINEER OR LAND SURVEYOR, TO ACT AS AN ARCHITECT, ENGINEER OR LAND SURVEYOR
BEARING THE SEAL OF AN ARCHITECT, ENGINEER OR LAND SURVEYOR, IN THE STATE OF NEW YORK, AND THE SIGNATURE AND THE DATE OF SUCH SIGNATURE, AND A SPECIFIC DESCRIPTION OF THE
ALTERNATIVE.

SHEET INFORMATION

| Issued | Scale |
|----------------|--------------|
| 10/18/2023 | NOT TO SCALE |
| Project Status | |
| BID DOCUMENTS | |
| Drawn By | Checked By |
| KCM | JJM |
| Drawing Title | |
| VRF PIPING | |

Drawing Number

**WOS
H601**

| DX COIL SCHEDULE | | | | | | | | | | | | | | | | | |
|--|---------------------|------------------|--------------|------------------------|------------------|----------|-------|------|-------|------|---------|-----------------|----------|--------------------|------|------------------------------|--------|
| TAG | LOCATION / SERVICES | SUPPLY AIR (CFM) | DCV OA (CFM) | NOMINAL CAPACITY (TON) | COOLING CAPACITY | | | | | | | | MFG SIZE | MFG SIZE HXL (IN.) | ROWS | TYPICAL UNIT MFG & MODEL NO. | NOTES: |
| | | | | | TOTAL MBH | SENS MBH | EAT°F | | LAT°F | | AMB °F | MAX APD (IN WC) | | | | | |
| | | | | | | | DB | WB | DB | WB | | | | | | | |
| DX-1 | ROOF / AUDITORIUM | 5025 | 2700 | 20.3 | 243.2 | 170.2 | 84.0 | 69.2 | 55.0 | 54.5 | 93 / 75 | 0.83 | 9.93 SF | 28.7 / 11.2 | 6 | CARRIER 28ME | 1.2 |
| DX-2 | ROOF / GYMNASIUM | 5163 | 1800 | 18.2 | 217.9 | 152.5 | 81.2 | 67.2 | 55.0 | 54.5 | 93 / 75 | 0.37 | 14.34 SF | 32.6 / 11.6 | 4 | CARRIER 28ME | 1.2 |
| <div>NOTES:</div> <div>1. COORDINATE REFRIGERATION TYPE WITH CONDENSING UNIT</div> <div>2. LOCATE IN EXISTING RTU, UPSTREAM OF SUPPLY FAN, DOWN STREAM FROM FILTERS.</div> | | | | | | | | | | | | | | | | | |

| REFRIGERANT BRANCH BOXES | | | | | | | | | | | |
|--------------------------|-------------|------------------------------|-------------------------|--------------------------|---------------------------|--|--|------------------------|--------------------|---------------|------------------------------|
| MARK | UNIT SERVES | 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-1 | ACC-1,2 | 12 | 8 | 245 | 27 | 2592 | 2304 | 11" × 39" × 25" | 208 / 230 / 1 / 60 | 339 W | UTP-RU12AH |
| RBU-2 | ACC-3,4 | 12 | 8 | 245 | 27 | 2592 | 2304 | 11" × 39" × 25" | 208 / 230 / 1 / 60 | 339 W | UTP-RU12AH |
| RBU-4 | ACC-6 | 8 | 8 | 245 | 27 | 1010.4 | 852 | 11" × 26" × 25" | 208 / 230 / 1 / 60 | 226 W | UTP-RU08AH |
| RBU-6 | ACC-9,10 | 12 | 10 | 324 | 27 | 3240 | 2880 | 11" × 39" × 25" | 208 / 230 / 1 / 60 | 339 W | UTP-RU12AH |
| RBU-7 | ACC-11,12 | 8 | 6 | 245 | 27 | 1944 | 1728 | 11" × 26" × 25" | 208 / 230 / 1 / 60 | 226 W | UTP-RU08AH |
| RBU-8 | ACC-13,14 | 8 | 7 | 245 | 27 | 2268 | 2016 | 11" × 26" × 25" | 208 / 230 / 1 / 60 | 226 W | UTP-RU08AH |
| RBU-9 | ACC-18,19 | 12 | 8 | 245 | 27 | 2592 | 2304 | 11" × 39" × 25" | 208 / 230 / 1 / 60 | 339 W | UTP-RU12AH |
| RBU-10 | ACC-20,21 | 12 | 8 | 245 | 27 | 2592 | 2304 | 11" × 39" × 25" | 208 / 230 / 1 / 60 | 339 W | UTP-RU12AH |
| RBU-11 | ACC-22,23 | 12 | 8 | 245 | 27 | 2592 | 2304 | 11" × 39" × 25" | 208 / 230 / 1 / 60 | 339 W | UTP-RU12AH |
| RBU-12 | ACC-15,16 | 8 | 6 | 245 | 27 | 1944 | 1728 | 11" × 26" × 25" | 208 / 230 / 1 / 60 | 226 W | UTP-RU08AH |

| FAN SCHEDULE | | | | | | | | | | | | |
|---|----------|------------|-----------|------|---------------|------|-----------------|-------|-------|------|---------------------------------|--------|
| TAG | LOCATION | SERVICE | TYPE | CFM | SP IN W.G. | RPM | ELECTRICAL DATA | | | | TYPICAL UNIT MFG & MODEL NO. | NOTES: |
| | | | | | | | HP | VOLTS | PHASE | AMPS | | |
| EF-1 | ROOF | CRAWLSPACE | DOWNBLAST | 2320 | 1.3 | 1725 | 1-1/2 | 208 | 1 | 11 | GREEHECK G-140-A | 1-2 |
| EF-2 | ROOF | TOILETS | DIRECT | 900 | 0.3 | 959 | 1/4 | 115 | 1 | 3.8 | GREEHECK G-120-VG | 1-2 |
| NOTES: 1. FACTORY MOUNTED AND WIRED DISCONNECT. 2. HINGED BASE AND BIRD SCREEN. | | | | | | | | | | | | |

| REGISTERS, GRILLES, AND DIFFUSERS | | | | | | |
|---|-------------|----------|----------------|--------|---------------|--------|
| TAG | APPLICATION | MATERIAL | TYPE | FINISH | DESIGN EQUIP. | NOTES: |
| D-1 | SUPPLY | STEEL | CEILING GRILLE | WHITE | PRICE 500 | 3 |
| D-2 | SUPPLY | STEEL | LAY-IN | WHITE | PRICE SPD | 2,4 |
| D-3 | SUPPLY | STEEL | ROUND | WHITE | PRICE HCD | 1 |
| R-1 | RETURN/EA | STEEL | CEILING GRILLE | WHITE | PRICE 510 | 3 |
| R-2 | RETURN/EA | STEEL | LAY-IN | WHITE | PRICE PDN | - |
| R-3 | RETURN/EA | STEEL | LAY-IN | WHITE | PRICE PDDR | - |
| NOTES: 1. OPPOSED BLADE DAMPER. 2. STANDARD AIR FLOW PATTERN. 3. SINGLE DEFLECTION, BLADES PARALLEL TO LENGTH. 4. INSULATED BACK PAN. | | | | | | |

| 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 |
| ERU-1 | ROOF | CLASSROOMS | 1885 | 1885 | 1885 | PLENUM | 1 | 1760 | 1.39 | 2 | PLENUM | 0.5 | 1562 | 0.77 | 2 | ELECTRIC | YES | 1554 | 2" PRE-FILTER/4" MERV 13 | 208/3/60 | 99 |
| ERU-2 | ROOF | CLASSROOMS | 1620 | 1620 | 1620 | PLENUM | 1 | 1760 | 1.14 | 2 | PLENUM | 0.5 | 1454 | 0.61 | 2 | ELECTRIC | YES | 1524 | 2" PRE-FILTER/4" MERV 13 | 208/3/60 | 78 |
| ERU-5 | ROOF | CLASSROOMS | 1120 | 1120 | 1120 | PLENUM | 1 | 1760 | 1.48 | 2 | PLENUM | 0.5 | 1760 | 0.85 | 2 | ELECTRIC | YES | 1510 | 2" PRE-FILTER/4" MERV 13 | 208/3/60 | 54 |
| ERU-6 | ROOF | CLASSROOMS | 2120 | 2120 | 2120 | PLENUM | 1 | 1760 | 1.62 | 2 | PLENUM | 0.5 | 1635 | 0.8 | 2 | ELECTRIC | YES | 1554 | 2" PRE-FILTER/4" MERV 13 | 208/3/60 | 99 |
| ERU-7 | ROOF | CLASSROOMS | 1230 | 1230 | 1230 | PLENUM | 1 | 1760 | 0.8 | 2 | PLENUM | 0.5 | 1633 | 0.4 | 1 | ELECTRIC | YES | 1510 | 2" PRE-FILTER/4" MERV 13 | 208/3/60 | 54 |
| ERU-8 | ROOF | CLASSROOMS | 1260 | 1260 | 1260 | PLENUM | 1 | 1760 | 0.8 | 2 | PLENUM | 0.5 | 1626 | 0.4 | 2 | ELECTRIC | YES | 1510 | 2" PRE-FILTER/4" MERV 13 | 208/3/60 | 54 |
| ERU-9 | ROOF | CLASSROOMS | 1990 | 1990 | 1990 | PLENUM | 1 | 1760 | 1.53 | 2 | PLENUM | 0.5 | 1608 | 0.84 | 2 | ELECTRIC | YES | 1554 | 2" PRE-FILTER/4" MERV 13 | 208/3/60 | 99 |
| ERU-10 | ROOF | CLASSROOMS | 1690 | 1690 | 1690 | PLENUM | 1 | 1760 | 1.2 | 2 | PLENUM | 0.5 | 1481 | 0.65 | 2 | ELECTRIC | YES | 1554 | 2" PRE-FILTER/4" MERV 13 | 208/3/60 | 78 |
| ERU-11 | ROOF | CLASSROOMS | 1680 | 1680 | 1680 | PLENUM | 1 | 1760 | 1.2 | 2 | PLENUM | 0.5 | 1481 | 0.65 | 2 | ELECTRIC | YES | 1554 | 2" PRE-FILTER/4" MERV 13 | 208/3/60 | 78 |
| ERU-12 | ROOF | CLASSROOMS | 1300 | 1300 | 1300 | PLENUM | 1 | 1760 | 0.8 | 2 | PLENUM | 0.5 | 1321 | 0.4 | 1 | ELECTRIC | YES | 1510 | 2" PRE-FILTER/4" MERV 13 | 208/3/60 | 54 |
| ERU-13 | ROOF | CLASSROOMS | 2240 | 2240 | 2240 | PLENUM | 1 | 1760 | 1.7 | 2 | PLENUM | 0.5 | 1684 | 0.9 | 2 | ELECTRIC | YES | 1554 | 2" PRE-FILTER/4" MERV 13 | 208/3/60 | 120 |

| ENERGY RECOVERY UNIT (CONT.) | | | | | | | | | | | | | | | | | | | | |
|---|---------------------------|---------|------------|---------|--------------------------|---------|-------------|---------|-------------------------------|---------------------------|---------|------------|---------|--------------------------|---------|-------------|------------------------------|-------|-------------------------------|---------|
| 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) |
| ERU-1 | -7 | -8 | 65 | 62 | 39.2 | 39.2 | 18.7 | 18.7 | 65.4 | 90 | 71 | 75 | 62 | 79.8 | 65.1 | 85 | 68.1 | 65.4 | AAON RN-007-80-E60E14A | 1,2,3,4 |
| ERU-2 | -7 | -8 | 65 | 62 | 41.6 | 41.6 | 16.3 | 16.3 | 68.2 | 90 | 71 | 75 | 62 | 79.3 | 64.9 | 85.4 | 68.4 | 68.2 | AAON RN-006-80-E60E13A | 1,2,3,4 |
| ERU-5 | -7 | -8 | 65 | 62 | 46.2 | 46.2 | 11.7 | 11.7 | 74.3 | 90 | 71 | 75 | 62 | 78.4 | 64.3 | 86.4 | 68.9 | 74.3 | AAON RN-006-80-E60E12A | 1,2,3,4 |
| ERU-6 | -7 | -8 | 65 | 62 | 42 | 42 | 18.7 | 18.7 | 65.1 | 90 | 71 | 75 | 62 | 79.3 | 64.8 | 84.9 | 68.1 | 65.1 | AAON RN-007-80-E60E14A | 1,2,3,4 |
| ERU-7 | -7 | -8 | 65 | 62 | 45.2 | 45.2 | 12.7 | 12.7 | 72.9 | 90 | 71 | 75 | 62 | 78.6 | 64.4 | 86.2 | 68.8 | 72.9 | AAON RN-006-80-E60E12A | 1,2,3,4 |
| ERU-8 | -7 | -8 | 65 | 62 | 45.3 | 45.3 | 12.7 | 12.7 | 73.1 | 90 | 71 | 75 | 62 | 78.6 | 64.4 | 86.2 | 68.8 | 73.1 | AAON RN-006-80-E60E12A | 1,2,3,4 |
| ERU-9 | -7 | -8 | 65 | 62 | 38.2 | 38.2 | 19.7 | 19.7 | 63.8 | 90 | 71 | 75 | 62 | 80 | 65.3 | 84.8 | 68 | 63.8 | AAON RN-007-80-E60E14A | 1,2,3,4 |
| ERU-10 | -7 | -8 | 65 | 62 | 41 | 41 | 16.9 | 16.9 | 67.4 | 90 | 71 | 75 | 62 | 79.4 | 64.9 | 85.3 | 68.3 | 67.4 | AAON RN-007-80-E60E13A | 1,2,3,4 |
| ERU-11 | -7 | -8 | 65 | 62 | 41 | 41 | 16.9 | 16.9 | 67.4 | 90 | 71 | 75 | 62 | 79.4 | 64.9 | 85.3 | 68.3 | 67.4 | AAON RN-007-80-E60E13A | 1,2,3,4 |
| ERU-12 | -7 | -8 | 65 | 62 | 46.5 | 46.5 | 12.7 | 12.7 | 73.1 | 90 | 71 | 75 | 62 | 78.3 | 64.3 | 86.2 | 68.8 | 73.1 | AAON RN-006-80-E60E12A | 1,2,3,4 |
| ERU-13 | -7 | -8 | 65 | 62 | 33.6 | 33.6 | 19.8 | 19.8 | 63.7 | 90 | 71 | 75 | 62 | 81 | 65.9 | 84.7 | 68 | 63.7 | AAON RN-007-80-E60E15A | 1,2,3,4 |
| <div>NOTES:</div> <div><div>1. FACTORY MOUNTED AND WIRED DISCONNECT.</div><div>2. FRESH AIR AND EXHAUST DAMPERS.</div><div>3. TERMINAL STRIP FOR BMS CONTROL OF FAN AND DAMPERS.</div><div>4. DIRTY FILTER SENSORS.</div></div> | | | | | | | | | | | | | | | | | | | | |

| ENERGY RECOVERY UNIT (CONT.) | | | | | | | | | | | | | | | | | | |
|------------------------------|------------|---------------|------|----------|---------|-------|----------|----------------------|----------------|-----------|---------|----------------|---------|---------|--------|--------|----------------------|----------|
| TAG | TYPE | FINS PER INCH | ROWS | FACE VEL | COIL PD | REF. | COMP QTY | COOLING | | | | REHEAT | | HEATING | | | | |
| | | | | | | | | TOTAL CAPACITY (MBH) | SENSIBLE (MBH) | EAT(F) | LAT(F) | CAPACITY (MBH) | LAT(F) | OAT(F) | RAT(F) | EAT(F) | TOTAL CAPACITY (MBH) | INPUT KW |
| ERU-1 | AIR TO AIR | 14 | 3 | 221 | 0.12 | R410A | 1 | 105 | 52.9 | 79.8 | 55.2 | 34 | 70/59 | -7.0 | 65 | 39.2 | 102.4 | 30 |
| ERU-2 | AIR TO AIR | 14 | 3 | 190 | 0.09 | R410A | 1 | 93.2 | 46.1 | 79.3 | 54.4 | 31 | 70/58.7 | -7.0 | 65 | 41.6 | 76.8 | 22.5 |
| ERU-5 | AIR TO AIR | 14 | 3 | 131 | | R410A | 1 | 79.6 | 37.8 | 78.4/64.3 | 48.2/47 | 28 | 70/56.3 | -7.0 | 65 | 46.2 | 51.2 | 15 |
| ERU-6 | AIR TO AIR | 14 | 3 | 249 | 0.14 | R410A | 1 | 106 | 55.7 | 79.3 | 54.5 | 35 | 70/59.4 | -7.0 | 65 | 42.1 | 102.4 | 30 |
| ERU-7 | AIR TO AIR | 14 | 3 | 144 | 0.06 | R410A | 1 | 83 | 39.7 | 78.6 | 49.8 | 29 | 70/56.9 | -7.0 | 65 | 45.2 | 68.3 | 20 |
| ERU-8 | AIR TO AIR | 14 | 3 | 143 | 0.06 | R410A | 1 | 82.7 | 39.6 | 78.6 | 49.6 | 29 | 70/56.8 | -7.0 | 65 | 45.3 | 51.2 | 15 |
| ERU-9 | AIR TO AIR | 14 | 3 | 233 | 0.12 | R410A | 1 | 107 | 54.4 | 80 | 56.2 | 34 | 70/59.3 | -7.0 | 65 | 38.2 | 102.4 | 30 |
| ERU-10 | AIR TO AIR | 14 | 3 | 198 | 0.1 | R410A | 1 | 100 | 49.7 | 79.4 | 53.6 | 33 | 70/58.3 | -7.0 | 65 | 41 | 76.8 | 22.5 |
| ERU-11 | AIR TO AIR | 14 | 3 | 197 | 0.1 | R410A | 1 | 100 | 49.7 | 79.4 | 53.6 | 33 | 70/58.3 | -7.0 | 65 | 41 | 76.8 | 22.5 |
| ERU-12 | AIR TO AIR | 14 | 3 | 152 | 0.07 | R410A | 1 | 83.4 | 40.9 | 78.3 | 50.4 | 30 | 70/57.1 | -7.0 | 65 | 46.5 | 51.2 | 15 |
| ERU-13 | AIR TO AIR | 14 | 3 | 261 | 0.14 | R410A | 1 | 109 | 58.6 | 81 | 58.1 | 34 | 70/60.2 | -7.0 | 65 | 33.7 | 128 | 37.6 |

| VENTILATION CALCULATIONS | | | | | | | | | | | | | |
|--------------------------|-------------------------|-------------|----------------------------|--------------------|---------------------------------|---|--|---------------------------------------|----------------------------------|--------------------------------|-----------------------------|----------------------------|--------------|
| 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 DISTRIBUTION EFFECTIVENESS | BREATHING OUTDOOR AIR (CFM) | ZONE OUTDOOR AIRFLOW (CFM) | ADJUSTED CFM |
| ROOM # | CLASSIFICATION | | Vpz | Az | A | | Rp | Ra | | Ez | Vbz | Voz | |
| 1 | CLASSROOMS (5-8) | SSI-19.20 | 425 | 891 SF | 25 | 23 | 10.0 | 0.12 | - | 0.8 | 337 | 422 | 425 |
| 2 | CLASSROOMS (5-8) | SSI-34.35 | 425 | 891 SF | 25 | 23 | 10.0 | 0.12 | - | 0.8 | 337 | 422 | 425 |
| 3 | CLASSROOMS (5-8) | SSI-17.18 | 425 | 885 SF | 25 | 23 | 10.0 | 0.12 | - | 0.8 | 336 | 421 | 425 |
| 4 | CLASSROOMS (5-8) | SSI-30.37 | 425 | 888 SF | 25 | 23 | 10.0 | 0.12 | - | 0.8 | 337 | 421 | 425 |
| 5 | LIBRARY | ERU-5 | 240 | 1099 SF | 10 | 11 | 5.0 | 0.12 | - | 0.8 | 187 | 234 | 240 |
| 5A | LIBRARY | ERU-5 | 190 | 882 SF | 10 | 9 | 5.0 | 0.12 | - | 0.8 | 151 | 189 | 190 |
| 6 | CLASSROOMS (5-8) | SSI-38.39 | 420 | 882 SF | 25 | 23 | 10.0 | 0.12 | - | 0.8 | 336 | 420 | 420 |
| 15 | CLASSROOMS (5-8) | SSI-9.10 | 405 | 857 SF | 25 | 22 | 10.0 | 0.12 | - | 0.8 | 323 | 404 | 405 |
| 16 | OFFICE SPACES | SSI-7.7 | 55 | 464 SF | 5 | 3 | 5.0 | 0.06 | - | 0.8 | 43 | 54 | 55 |
| 16B | SICKROOM | SSI-7.8 | 50 | 66 SF | 25 | 2 | 10.0 | 0.18 | - | 0.8 | 32 | 40 | 50 |
| 17 | CLASSROOMS (5-8) | SSI-7.8 | 405 | 857 SF | 25 | 22 | 10.0 | 0.12 | - | 0.8 | 323 | 404 | 405 |
| 19 | CLASSROOMS (5-8) | SSI-5.6 | 405 | 857 SF | 25 | 22 | 10.0 | 0.12 | - | 0.8 | 323 | 404 | 405 |
| 20 | OFFICE SPACES | SSI-8.4 | 250 | 228 SF | 5 | 2 | 5.0 | 0.06 | - | 0.8 | 24 | 30 | 50 |
| 21 | CLASSROOMS (5-8) | SSI-3.4 | 480 | 1025 SF | 25 | 26 | 10.0 | 0.12 | - | 0.8 | 383 | 479 | 480 |
| 22 | OFFICE SPACES | SSI-8.4 | 150 | 104 SF | 5 | 1 | 5.0 | 0.06 | - | 0.8 | 11 | 15 | 50 |
| 23 | OFFICE SPACES | SSI-8.4 | 240 | 266 SF | 5 | 2 | 5.0 | 0.06 | - | 0.8 | 26 | 33 | 50 |
| 23A | OFFICE SPACES | SSI-8.4 | 200 | 142 SF | 5 | 1 | 5.0 | 0.06 | - | 0.8 | 14 | 17 | 50 |
| 23B | OFFICE SPACES | SSI-8.4 | 200 | 142 SF | 5 | 1 | 5.0 | 0.06 | - | 0.8 | 14 | 17 | 50 |
| 24 | CLASSROOMS (5-8) | SSI-85.86 | 405 | 857 SF | 25 | 22 | 10.0 | 0.12 | - | 0.8 | 323 | 404 | 405 |
| 26 | CLASSROOMS (5-8) | SSI-87.88 | 405 | 857 SF | 25 | 22 | 10.0 | 0.12 | - | 0.8 | 323 | 404 | 405 |
| 30 | CLASSROOMS (5-8) | SSI-89.90 | 520 | 1105 SF | 25 | 28 | 10.0 | 0.12 | - | 0.8 | 413 | 516 | 520 |
| 32 | CLASSROOMS (5-8) | SSI-1.2 | 480 | 1025 SF | 25 | 26 | 10.0 | 0.12 | - | 0.8 | 383 | 479 | 480 |
| 37A | CLASSROOMS (5-8) | SSI-79.80 | 280 | 600 SF | 25 | 15 | 10.0 | 0.12 | - | 0.8 | 222 | 278 | 280 |
| 37B | CLASSROOMS (5-8) | SSI-81.82 | 170 | 356 SF | 25 | 9 | 10.0 | 0.12 | - | 0.8 | 133 | 166 | 170 |
| 38 | OFFICE SPACES | SSI-7.6 | 50 | 309 SF | 5 | 2 | 5.0 | 0.06 | - | 0.8 | 29 | 36 | 50 |
| 39 | OFFICE SPACES | SSI-7.5 | 50 | 261 SF | 5 | 2 | 5.0 | 0.06 | - | 0.8 | 26 | 33 | 50 |
| 42 | OFFICE SPACES | SSI-7.2 | 50 | 141 SF | 5 | 1 | 5.0 | 0.06 | - | 0.8 | 13 | 17 | 50 |
| 44 | CLASSROOMS (5-8) | SSI-7.1 | 185 | 377 SF | 25 | 10 | 10.0 | 0.12 | - | 0.8 | 145 | 182 | 185 |
| 51 | BREAK ROOMS | SSI-7.0 | 105 | 369 SF | 30 | 12 | 5.0 | 0.06 | - | 0.8 | 82 | 103 | 105 |
| 57 | CLASSROOMS (5-8) | SSI-68.69 | 425 | 886 SF | 25 | 23 | 10.0 | 0.12 | - | 0.8 | 338 | 423 | 425 |
| 59 | CLASSROOMS (5-8) | SSI-66.67 | 420 | 882 SF | 25 | 23 | 10.0 | 0.12 | - | 0.8 | 336 | 420 | 420 |
| 61 | CLASSROOMS (5-8) | SSI-64.65 | 420 | 882 SF | 25 | 23 | 10.0 | 0.12 | - | 0.8 | 336 | 420 | 420 |
| 62 | MUSIC/THEATER/DANCE | SSI-40.41 | 455 | 882 SF | 35 | 31 | 10.0 | 0.06 | - | 0.8 | 363 | 454 | 455 |
| 63 | CLASSROOMS (5-8) | SSI-62.63 | 420 | 882 SF | 25 | 23 | 10.0 | 0.12 | - | 0.8 | 336 | 420 | 420 |
| 64 | CLASSROOMS (5-8) | SSI-42.43 | 420 | 882 SF | 25 | 23 | 10.0 | 0.12 | - | 0.8 | 336 | 420 | 420 |
| 65 | CLASSROOMS (5-8) | SSI-60.61 | 420 | 882 SF | 25 | 23 | 10.0 | 0.12 | - | 0.8 | 336 | 420 | 420 |
| 66 | CLASSROOMS (5-8) | SSI-44.45 | 420 | 882 SF | 25 | 23 | 10.0 | 0.12 | - | 0.8 | 336 | 420 | 420 |
| 67 | CLASSROOMS (5-8) | SSI-58.59 | 425 | 889 SF | 25 | 23 | 10.0 | 0.12 | - | 0.8 | 337 | 421 | 425 |
| 68 | CLASSROOMS (5-8) | SSI-46.47 | 420 | 882 SF | 25 | 23 | 10.0 | 0.12 | - | 0.8 | 336 | 420 | 420 |
| 69 | CLASSROOMS (5-8) | SSI-56.57 | 425 | 891 SF | 25 | 23 | 10.0 | 0.12 | - | 0.8 | 337 | 422 | 425 |
| 70 | CLASSROOMS (5-8) | SSI-48.49 | 425 | 889 SF | 25 | 23 | 10.0 | 0.12 | - | 0.8 | 337 | 421 | 425 |
| 71 | CLASSROOMS (5-8) | SSI-54.55 | 425 | 891 SF | 25 | 23 | 10.0 | 0.12 | - | 0.8 | 337 | 422 | 425 |
| 72 | CLASSROOMS (5-8) | SSI-50.51 | 425 | 891 SF | 25 | 23 | 10.0 | 0.12 | - | 0.8 | 337 | 422 | 425 |
| 74 | ART CLASSROOM | SSI-52.53 | 715 | 891 SF | 20 | 18 | 10.0 | 0.18 | 0.70 | 0.8 | 340 | 713 | 715 |
| 80C | OFFICE SPACES | SSI-7.3 | 50 | 186 SF | 5 | 1 | 5.0 | 0.06 | - | 0.8 | 16 | 21 | 50 |
| 100 | CLASSROOMS (5-8) | SSI-32.33 | 410 | 869 SF | 25 | 22 | 10.0 | 0.12 | - | 0.8 | 324 | 406 | 410 |
| 101 | CLASSROOMS (5-8) | SSI-30.31 | 410 | 870 SF | 25 | 22 | 10.0 | 0.12 | - | 0.8 | 324 | 406 | 410 |
| 102 | CLASSROOMS (5-8) | SSI-28.29 | 410 | 872 SF | 25 | 22 | 10.0 | 0.12 | - | 0.8 | 325 | 406 | 410 |
| 103 | CLASSROOMS (5-8) | SSI-26.27 | 410 | 872 SF | 25 | 22 | 10.0 | 0.12 | - | 0.8 | 325 | 406 | 410 |
| 104 | CLASSROOMS (5-8) | SSI-21.22 | 410 | 872 SF | 25 | 22 | 10.0 | 0.12 | - | 0.8 | 325 | 406 | 410 |
| 105 | HEALTH CLUB/WEIGHT ROOM | SSI-23.24 | 290 | 856 SF | 10 | 9 | 20.0 | 0.06 | - | 0.8 | 231 | 290 | 290 |
| 106 | CORRIDOR | RTU-3 | 100 | 172 SF | - | 0 | - | 0.06 | - | 0.8 | 10 | 13 | 50 |
| 106A | OFFICE SPACES | RTU-3 | 380 | 181 SF | 5 | 1 | 5.0 | 0.06 | - | 0.8 | 16 | 20 | 50 |
| 106B | OFFICE SPACES | RTU-3 | 360 | 132 SF | 5 | 1 | 5.0 | 0.06 | - | 0.8 | 13 | 17 | 50 |
| 106C | OFFICE SPACES | RTU-3 | 180 | 124 SF | 5 | 1 | 5.0 | 0.06 | - | 0.8 | 12 | 16 | 50 |
| 106D | OFFICE SPACES | RTU-3 | 250 | 245 SF | 5 | 2 | 5.0 | 0.06 | - | 0.8 | 25 | 31 | 50 |
| M1 | OFFICE SPACES | SSI-25 | 175 | 113 SF | 5 | 1 | 5.0 | 0.06 | - | 0.8 | 12 | 15 | 50 |
| M2 | OFFICE SPACES | SSI-25 | 228 | 150 SF | 5 | 1 | 5.0 | 0.06 | - | 0.8 | 14 | 18 | 50 |
| M3 | OFFICE SPACES | SSI-25 | 365 | 241 SF | 5 | 2 | 5.0 | 0.06 | - | 0.8 | 24 | 31 | 50 |
| 1 | CORRIDOR | ERU-13 | 1,350 | 2472 SF | - | 0 | - | 0.06 | - | 0.8 | 148 | 186 | 200 |
| 2 | CORRIDOR | ERU-13 | 500 | 1500 SF | - | 0 | - | 0.06 | - | 0.8 | 90 | 113 | 120 |
| 3 | CORRIDOR | ERU-5 | 600 | 1915 SF | - | 0 | - | 0.06 | - | 0.8 | 115 | 144 | 150 |
| 3 | CORRIDOR | SSI-7.4 | 980 | 1915 SF | - | 0 | - | 0.06 | - | 0.8 | 115 | 144 | 150 |

| ROOFTOP AIR CONDITIONING UNIT SCHEDULE | | | | | | | | | | | | |
|--|----------|-----------|------|--|--------|----------------|----------|-----------|----------|------------------|----|--------|
| TAG | LOCATION | NOM. TONS | SEER | SUPPLY FAN | | | BHP / HP | TOTAL MBH | SENS MBH | COOLING CAPACITY | | NOTES: |
| | | | | CFM | OA CFM | ESP (IN. W.C.) | | | | EAT °F | | |
| RTU-3 | ROOF | 1-6 | 13.4 | 1250 | 250 | 1 | 0.73/1 | 37.81 | 25.61 | DB | WB | |
| NOTES: | | | | 1. 14" INSULATED CURB. UNIT SHALL HAVE PACKAGED CONTROLS AND CONNECT TO BMS. 2. FACTORY MOUNTED AND WIRED DISCONNECT. 2" PREFILTER, 4" MERV 13 FILTER. 3. DOUBLE WALL, R-13 FOAM INSULATION. | | | | | | | | |

| FIN TUBE SCHEDULE | | | | | | | | | | | | |
|-------------------|----------|---|-----|-----------------|------------|----------|----------|---------|---------|--------------|------------------------------|--------|
| TAG | LOCATION | BTU/FT. | GPM | TUBE SIZE (IN.) | FINS / FT. | EWT (°F) | EAT (°F) | H (IN.) | D (IN.) | STYLE | TYPICAL UNIT MFG & MODEL NO. | NOTES: |
| FT-1 | | 1200 | 0.7 | 0.75 | 50 | 180 | 65 | 28" | 5-5/16" | BARE ELEMENT | STERLING JVB-T-C3/4-435 | 1,2,3 |
| NOTES: | | 1. LOCATE ELEMENT BEHIND MILLWORK BY GC. 2. MC TO FIELD VERIFY ENCLOSURE LENGTH. ENCLOSURE TO BE FULL WIDTH WITHOUT GAPS. 3. COORDINATE HEIGHT WITH ELECTRICAL DEVICES. | | | | | | | | | | |

1/17/2023 9:24:47 AM c:\project location> REVIT PROJECT FILES ON B:\MS&G

| FAN COIL UNIT SCHEDULE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|----------|----------|--------------|-------|--------|----------------|--------------|-----------|----------|------------------------|----------|----------|----------|----------|----------------|------------|------|-------------|----------------------|-------------------------|--------------|--------|---------------------|----------|-------------|-----|----|----|--------------|-------|-----|-----|------|
| TAG | LOCATION | SERVICE | MANUFACTURER | MODEL | TYPE | FAN | | | | HOT WATER HEATING COIL | | | | | | | | | | | | FILTER | ELECTRICAL | | | | | | WEIGHT (LBS) | NOTES | | | |
| | | | | | | AIR FLOW (CFM) | ESP (IN.WG.) | MOTOR BHP | MOTOR HP | DRIVE | EAT (°F) | LAT (°F) | EWT (°F) | LWT (°F) | CAPACITY (MBH) | FLUID TYPE | GPM | WPD (FT.WG) | TOTAL CAPACITY (MBH) | SENSIBLE CAPACITY (MBH) | AMBIENT (°F) | | FACE VELOCITY (FPM) | CIRCUITS | REFRIGERANT | V | PH | HZ | | | MCA | FLA | MOCp |
| FCU-1 | VEST | 102 VEST | AIR THERM | SRBB | DUCTED | 500 | 100 | - | 2 | DIRECT | 50 | 90 | 180 | 150 | 21.6 | WATER | 1.44 | - | 19.3 | 13.5 | 85 | 400 | 1 | R410A | MERV 8 | 120 | 1 | 60 | - | - | 15 | - | 1.2 |
| NOTES: 1. PROVIDE DISCONNECT. 2. CEILING RECESSED | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| ENERGY RECOVERY EHEEL PERFORMANCE SCHEDULE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | TYPICAL UNIT MFG & MODEL NO. | NOTES: | | |
|--|----------------|----------------|------|----|----------------|----------------|------|----|------------|-----|---------------------------|---------|------------|---------|--------------------------|---------|-------------|---------|----------------|---------------------------|-------------------|------------|---------|--------------------------|---------|-------------|---------|----------------|-------------------------------|--------------------------------------|--------|--|--|
| TAG | SUPPLY FAN | | | | EXHAUST FAN | | | | ELECTRICAL | | WINTER CONDITIONS | | | | | | | | | | SUMMER CONDITIONS | | | | | | | | | | | | |
| | AIR FLOW (CFM) | E.S.P. (IN.WC) | RPM | HP | AIR FLOW (CFM) | E.S.P. (IN.WC) | RPM | HP | VOLTØ | FLA | WHEEL ENTERING CONDITIONS | | | | WHEEL LEAVING CONDITIONS | | | | TOTAL CAPACITY | WHEEL ENTERING CONDITIONS | | | | WHEEL LEAVING CONDITIONS | | | | TOTAL CAPACITY | 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) | | DB (°F) | WB (°F) | DB (°F) | WB (°F) | DB (°F) | WB (°F) | DB (°F) | WB (°F) | | | | | | |
| RTU-1 | 3675 | 0.75 | 1760 | 5 | 2390 | 0.5 | 1760 | 2 | 208/3 | 64 | -2 | -3 | 65 | 62 | 42.71 | 42.71 | 20.29 | 20.29 | 185.74 | 95 | 71 | 72 | 62 | 79.25 | 65.08 | 87.47 | 68.27 | 46.05 | 66.4 | AAON RN-011-3-0-DAAAC-V0-21-000-A | 1,2,3 | | |
| RTU-2 | 3675 | 0.75 | 1760 | 5 | 2390 | 0.5 | 1760 | 2 | 208/3 | 64 | -2 | -3 | 65 | 62 | 42.71 | 42.71 | 20.29 | 20.29 | 185.74 | 95 | 71 | 72 | 62 | 79.25 | 65.08 | 87.47 | 68.27 | 46.05 | 66.4 | AAON RN-011-3-0-DAAAC-V0-21-000-A | 1,2,3 | | |
| NOTES: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1. 14" INSULATED CURB. EXTEND EXISTING CONTROLS TO NEW UNITS. (MOTORIZED RELIEF DAMPERS. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2. FACTORY MOUNTED AND WIRED DISCONNECT. 2" PREFILTER, 4" MERV 13 FILTER. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3. DOUBLE WALL, R-13 FOAM INSULATION. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| 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 | |
| ERU-1 | ROOF | CLASSROOMS | 2000 | 2000 | 2000 | PLENUM | 1 | 1760 | 1.48 | 2 | PLENUM | 0.5 | 1760 | 0.85 | 2 | ELECTRIC | YES | 1554 | 2" PRE-FILTER/4" MERV 13 | 208/3/60 | 99 | |
| ERU-2 | ROOF | CLASSROOMS | 1500 | 1500 | 1500 | PLENUM | 1 | 1760 | 1.48 | 2 | PLENUM | 0.5 | 1760 | 0.85 | 1 | ELECTRIC | YES | 1511 | 2" PRE-FILTER/4" MERV 13 | 208/3/60 | 75 | |
| ERU-3 | ROOF | CLASSROOMS | 2000 | 2000 | 2000 | PLENUM | 1 | 1760 | 1.48 | 2 | PLENUM | 0.5 | 1760 | 0.85 | 2 | ELECTRIC | YES | 1554 | 2" PRE-FILTER/4" MERV 13 | 208/3/60 | 99 | |
| ERU-4 | ROOF | CLASSROOMS | 1950 | 1500 | 1500 | PLENUM | 1 | 1760 | 1.48 | 2 | PLENUM | 0.5 | 1760 | 0.85 | 2 | ELECTRIC | YES | 1541 | 2" PRE-FILTER/4" MERV 13 | 208/3/60 | 96 | |
| ERU-5 | ROOF | CLASSROOMS | 2000 | 2000 | 2000 | PLENUM | 1 | 1760 | 1.48 | 2 | PLENUM | 0.5 | 1760 | 0.85 | 2 | ELECTRIC | YES | 1554 | 2" PRE-FILTER/4" MERV 13 | 208/3/60 | 99 | |
| ERU-6 | ROOF | CLASSROOMS | 1650 | 1060 | 1060 | PLENUM | 1 | 1760 | 1.48 | 2 | PLENUM | 0.5 | 1760 | 0.85 | 2 | ELECTRIC | YES | 1511 | 2" PRE-FILTER/4" MERV 13 | 208/3/60 | 96 | |
| ERU-7 | ROOF | CLASSROOMS | 2020 | 2020 | 2020 | PLENUM | 1 | 1760 | 1.48 | 2 | PLENUM | 0.5 | 1760 | 0.85 | 2 | ELECTRIC | YES | 1554 | 2" PRE-FILTER/4" MERV 13 | 208/3/60 | 99 | |
| ERU-8 | ROOF | CLASSROOMS | 2000 | 2000 | 2000 | PLENUM | 1 | 1760 | 1.48 | 2 | PLENUM | 0.5 | 1760 | 0.85 | 2 | ELECTRIC | YES | 1554 | 2" PRE-FILTER/4" MERV 13 | 208/3/60 | 99 | |
| ERU-9 | ROOF | CLASSROOMS | 1605 | 700 | 700 | PLENUM | 1 | 1760 | 1.48 | 2 | PLENUM | 0.5 | 1760 | 0.85 | 2 | ELECTRIC | YES | 1511 | 2" PRE-FILTER/4" MERV 13 | 208/3/60 | 96 | |
| ERU-10 | ROOF | CLASSROOMS | 2110 | 1660 | 1660 | PLENUM | 1 | 1760 | 1.48 | 2 | PLENUM | 0.5 | 1760 | 0.85 | 2 | ELECTRIC | YES | 1541 | 2" PRE-FILTER/4" MERV 13 | 208/3/60 | 117 | |
| ERU-11 | ROOF | CLASSROOMS | 1120 | 1120 | 1120 | PLENUM | 1 | 1760 | 1.48 | 2 | PLENUM | 0.5 | 1760 | 0.85 | 2 | ELECTRIC | YES | 1510 | 2" PRE-FILTER/4" MERV 13 | 208/3/60 | 54 | |

| ENERGY RECOVERY UNIT (CONT.) | | | | | | | | | | | | | | | | | | | | | | |
|---|---------------------------|---------|------------|---------|--------------------------|---------|-------------|---------|---------|-------------------------------|---------------------------|---------|------------|---------|--------------------------|---------|-------------|---------|------------------------------|---------|-------------------------------|---------|
| 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 | 65 | 62 | 38 | 38 | 19.8 | 19.8 | 63.7 | 90 | 71 | 75 | 62 | 80 | 65 | 84.7 | 68 | 63.7 | AAON RN-007-80-E60E14A | 1,2,3,4 | | |
| ERU-2 | -7 | -8 | 65 | 62 | 42.7 | 42.7 | 15.2 | 15.2 | 69.7 | 90 | 71 | 75 | 62 | 79.1 | 64.7 | 85.7 | 68.5 | 69.7 | AAON RN-006-80-E60E13A | 1,2,3,4 | | |
| ERU-3 | -7 | -8 | 65 | 62 | 38 | 38 | 19.8 | 19.8 | 63.7 | 90 | 71 | 75 | 62 | 80 | 65 | 84.7 | 68 | 63.7 | AAON RN-007-80-E60E14A | 1,2,3,4 | | |
| ERU-4 | -7 | -8 | 65 | 62 | 28.1 | 28.1 | 19.3 | 19.3 | 72.4 | 90 | 71 | 75 | 62 | 81.1 | 65.9 | 86.2 | 68.9 | 72.4 | AAON RN-007-80-E60E14A | 1,2,3,4 | | |
| ERU-5 | -7 | -8 | 65 | 62 | 38 | 38 | 19.8 | 19.8 | 63.7 | 90 | 71 | 75 | 62 | 80 | 65 | 84.7 | 68 | 63.7 | AAON RN-007-80-E60E14A | 1,2,3,4 | | |
| ERU-6 | -7 | -8 | 65 | 62 | 24.1 | 24.1 | 16.6 | 16.6 | 78.6 | 90 | 71 | 75 | 62 | 81.9 | 66.4 | 87.2 | 69.4 | 78.6 | AAON RN-006-80-E60E13A | 1,2,3,4 | | |
| ERU-7 | -7 | -8 | 65 | 62 | 38 | 38 | 19.8 | 19.8 | 63.7 | 90 | 71 | 75 | 62 | 80 | 65 | 84.7 | 68 | 63.7 | AAON RN-007-80-E60E14A | 1,2,3,4 | | |
| ERU-8 | -7 | -8 | 65 | 62 | 38 | 38 | 19.8 | 19.8 | 63.7 | 90 | 71 | 75 | 62 | 80 | 65 | 84.7 | 68 | 63.7 | AAON RN-007-80-E60E14A | 1,2,3,4 | | |
| ERU-9 | -7 | -8 | 65 | 62 | 24.1 | 24.1 | 16.6 | 16.6 | 78.6 | 90 | 71 | 75 | 62 | 81.9 | 66.4 | 87.2 | 69.4 | 78.6 | AAON RN-006-80-E60E13A | 1,2,3,4 | | |
| ERU-10 | -7 | -8 | 65 | 62 | 28.5 | 28.5 | 19.8 | 19.8 | 69.7 | 90 | 71 | 75 | 62 | 81.3 | 71.7 | 85.8 | 68.6 | 69.7 | AAON RN-007-80-E60E15A | 1,2,3,4 | | |
| ERU-11 | -7 | -8 | 65 | 62 | 46.2 | 46.2 | 11.7 | 11.7 | 74.3 | 90 | 71 | 75 | 62 | 78.4 | 64.3 | 86.4 | 68.9 | 74.3 | AAON RN-006-80-E60E12A | 1,2,3,4 | | |
| <div>NOTES:</div> <div><div>1. FACTORY MOUNTED AND WIRED DISCONNECT.</div><div>2. FRESH AIR AND EXHAUST DAMPERS.</div><div>3. TERMINAL STRIP FOR BMS CONTROL OF FAN AND DAMPERS.</div><div>4. DIRTY FILTER SENSORS.</div></div> | | | | | | | | | | | | | | | | | | | | | | |

| ENERGY RECOVERY UNIT (CONT.) | | | | | | | | | | | | | | | | | | |
|------------------------------|------------|---------------|------|----------|---------|-------|----------|----------------------|----------------|-----------|-----------|----------------|---------|---------|--------|--------|----------------------|----------|
| TAG | TYPE | FINS PER INCH | ROWS | FACE VEL | COIL PD | REF. | COMP QTY | COOLING | | | | REHEAT | | HEATING | | | | |
| | | | | | | | | TOTAL CAPACITY (MBH) | SENSIBLE (MBH) | EAT(F) | LAT(F) | CAPACITY (MBH) | LAT(F) | OAT(F) | RAT(F) | EAT(F) | TOTAL CAPACITY (MBH) | INPUT KW |
| ERU-1 | AIR TO AIR | 14 | 3 | 235 | | R410A | 1 | 107 | 54.6 | 80/65.3 | 54.5/53.3 | 34 | 70/59.4 | -7.0 | 65 | 38.1 | 102 | 30 |
| ERU-2 | AIR TO AIR | 14 | 3 | 176 | | R410A | 1 | 90.2 | 44.3 | 79.1/64.7 | 53/51.5 | 30 | 70/58.3 | -7.0 | 65 | 42.8 | 76.8 | 22.5 |
| ERU-3 | AIR TO AIR | 14 | 3 | 235 | | R410A | 1 | 107 | 54.6 | 80/65.3 | 54.5/53.3 | 34 | 70/59.4 | -7.0 | 65 | 38.1 | 102 | 30 |
| ERU-4 | AIR TO AIR | 14 | 3 | 229 | | R410A | 1 | 102 | 54.5 | 81.6/65.9 | 56.7/54.4 | 32 | 70/59.6 | -7.0 | 65 | 28.1 | 102 | 30 |
| ERU-5 | AIR TO AIR | 14 | 3 | 235 | | R410A | 1 | 107 | 54.6 | 80/65.3 | 54.5/53.3 | 34 | 70/59.4 | -7.0 | 65 | 38.1 | 102 | 30 |
| ERU-6 | AIR TO AIR | 14 | 3 | 194 | | R410A | 1 | 87.1 | 48.2 | 81.9/66.4 | 56.1/54.1 | 28 | 70/59.5 | -7.0 | 65 | 24.1 | 102 | 30 |
| ERU-7 | AIR TO AIR | 14 | 3 | 235 | | R410A | 1 | 107 | 54.6 | 80/65.3 | 54.5/53.3 | 34 | 70/59.4 | -7.0 | 65 | 38.1 | 102 | 30 |
| ERU-8 | AIR TO AIR | 14 | 3 | 235 | | R410A | 1 | 107 | 54.6 | 80/65.3 | 54.5/53.3 | 34 | 70/59.4 | -7.0 | 65 | 38.1 | 102 | 30 |
| ERU-9 | AIR TO AIR | 14 | 3 | 194 | | R410A | 1 | 86.6 | 47.8 | 81.1/65.9 | 55.6/53.8 | 29 | 70/59.4 | -7.0 | 65 | 24.1 | 102 | 30 |
| ERU-10 | AIR TO AIR | 14 | 3 | 248 | | R410A | 1 | 105.5 | 57.2 | 81.3/66 | 57.6/55.4 | 33 | 70/60.1 | -7.0 | 65 | 28.5 | 128 | 37.6 |
| ERU-11 | AIR TO AIR | 14 | 3 | 131 | | R410A | 1 | 79.6 | 37.8 | 78.4/64.3 | 48.2/47 | 28 | 70/56.3 | -7.0 | 65 | 46.2 | 51.2 | 15 |

| EQUIPMENT | LOCATION | HP/FLA | VOLTS | PHASE | AMPS | BREAKER SIZE | WIRE/CONDUIT SIZE | PANEL/CIRCUIT | REMARKS: |
|-----------|-----------------------|--------|-------|-------|------|--------------|-----------------------------|-----------------|----------|
| ERU-1 | ROOF | 99A | 208 | 3 | 99A | 125A/3P | 3 #1, 1#6GND IN 2" C | 1LNL14/1,3,5 | 1 |
| ERU-2 | ROOF | 75A | 208 | 3 | 75A | 100A/3P | 3 #2, 1#8GND IN 1-1/2" C | 1LNL14/2,4,6 | 1 |
| ERU-3 | ROOF | 99A | 208 | 3 | 99A | 125A/3P | 3 #1, 1#6GND IN 2" C | 1LNL14/26,28,30 | 1 |
| ERU-4 | ROOF | 96A | 208 | 3 | 96A | 125A/3P | 3 #1, 1#6GND IN 2" C | 1LNL11/37,39,41 | 1 |
| ERU-5 | ROOF | 99A | 208 | 3 | 99A | 125A/3P | 3 #1, 1#6GND IN 2" C | 1LNL15/1,3,5 | 1 |
| ERU-6 | ROOF | 96A | 208 | 3 | 96A | 125A/3P | 3 #1, 1#6GND IN 2" C | 1LNL15/2,4,6 | 1 |
| ERU-7 | ROOF | 99A | 208 | 3 | 99A | 125A/3P | 3 #1, 1#6GND IN 2" C | 1LNL16/26,28,30 | 1 |
| ERU-8 | ROOF | 99A | 208 | 3 | 99A | 125A/3P | 3 #1, 1#6GND IN 2" C | 1LNL16/25,27,29 | 1 |
| ERU-9 | ROOF | 96A | 120 | 1 | 96A | 125A/3P | 3 #1, 1#6GND IN 2" C | 1LNL13/38,40,42 | 1 |
| ERU-10 | ROOF | 117A | 208 | 3 | 117A | 150A/3P | 3# 2/0, 1#6GND IN 2-1/2" C | 1LNL16/1,3,5 | 1 |
| ERU-11 | ROOF | 54A | 208 | 3 | 54A | 70A/3P | 3 #4, 1#8GND IN 1-1/2" C | 1LNL16/2,4,6 | 1 |
| ERU-12 | ROOF | 6A | 208 | 1 | 6A | 20A/2P | 2 #12, 1 #12 GND IN 3/4" C | 1LNL14/19,21 | 1 |
| ERU-13 | CORRIDOR | 10A | 208 | 1 | 10A | 20A/2P | 2 #12, 1 #12 GND IN 3/4" C | 1LNL15/45,47 | 1 |
| ERU-14 | NURSE 212 | 10A | 208 | 1 | 10A | 20A/2P | 2 #12, 1 #12 GND IN 3/4" C | 1LNL15/40,42 | 1 |
| ERU-15 | ROOF | 15A | 208 | 1 | 15A | 20A/2P | 2 #12, 1 #12 GND IN 3/4" C | 1LNL15/19,21 | 1 |
| ERU-16 | ROOF | 15A | 208 | 1 | 15A | 20A/2P | 2 #12, 1 #12 GND IN 3/4" C | 1LNL15/29,31 | 1 |
| RTU-1 | ROOF | 64A | 208 | 3 | 64A | 80A/3P | 3 #4, 1 #10 GND IN 1-1/2" C | 1LNL15/39,41,43 | 1 |
| RTU-2 | ROOF | 64A | 208 | 3 | 64A | 80A/3P | 3 #4, 1 #10 GND IN 1-1/2" C | 1LNL16/20,22,24 | 1 |
| RTU-3 | ROOF | 35A | 208 | 3 | 35A | 50A/3P | 3 #6, 1 #10 GND IN 1" C | 1LNL16/19,21,23 | 1 |
| ACC-1 | ROOF | 50A | 208 | 3 | 60A | 60A/3P | 3 #6, 1 #10 GND IN 1" C | 1LNL14/7,9,11 | 1 |
| ACC-2 | ROOF | 50A | 208 | 3 | 60A | 60A/3P | 3 #6, 1 #10 GND IN 1" C | 1LNL14/8,10,12 | 1 |
| ACC-3 | ROOF | 50A | 208 | 3 | 60A | 60A/3P | 3 #6, 1 #10 GND IN 1" C | 1LNL14/13,15,17 | 1 |
| ACC-4 | ROOF | 50A | 208 | 3 | 60A | 60A/3P | 3 #6, 1 #10 GND IN 1" C | 1LNL14/14,16,18 | 1 |
| ACC-5 | ROOF | 50A | 208 | 3 | 60A | 60A/3P | 3 #6, 1 #10 GND IN 1" C | 1LNL14/32,34,36 | 1 |
| ACC-6 | ROOF | 50A | 208 | 3 | 60A | 60A/3P | 3 #6, 1 #10 GND IN 1" C | 1LNL14/41,43,45 | 1 |
| ACC-7 | ROOF | 50A | 208 | 3 | 60A | 60A/3P | 3 #6, 1 #10 GND IN 1" C | 1LNL14/38,40,42 | 1 |
| ACC-8 | ROOF | 50A | 208 | 3 | 60A | 60A/3P | 3 #6, 1 #10 GND IN 1" C | 1LNL14/20,22,24 | 1 |
| ACC-9 | ROOF | 50A | 208 | 3 | 60A | 60A/3P | 3 #6, 1 #10 GND IN 1" C | 1LNL15/7,9,11 | 1 |
| ACC-10 | ROOF | 50A | 208 | 3 | 60A | 60A/3P | 3 #6, 1 #10 GND IN 1" C | 1LNL15/8,10,12 | 1 |
| ACC-11 | ROOF | 50A | 208 | 3 | 60A | 60A/3P | 3 #6, 1 #10 GND IN 1" C | 1LNL15/14,16,18 | 1 |
| ACC-12 | ROOF | 50A | 208 | 3 | 60A | 60A/3P | 3 #6, 1 #10 GND IN 1" C | 1LNL15/13,15,17 | 1 |
| ACC-13 | ROOF | 50A | 208 | 3 | 60A | 60A/3P | 3 #6, 1 #10 GND IN 1" C | 1LNL16/32,34,36 | 1 |
| ACC-14 | ROOF | 50A | 208 | 3 | 60A | 60A/3P | 3 #6, 1 #10 GND IN 1" C | 1LNL16/31,33,35 | 1 |
| ACC-15 | ROOF | 50A | 208 | 3 | 60A | 60A/3P | 3 #6, 1 #10 GND IN 1" C | 1LNL16/38,40,42 | 1 |
| ACC-16 | ROOF | 50A | 208 | 3 | 60A | 60A/3P | 3 #6, 1 #10 GND IN 1" C | 1LNL16/37,39,41 | 1 |
| ACC-17 | ROOF | 50A | 208 | 3 | 60A | 60A/3P | 3 #6, 1 #10 GND IN 1" C | 1LNL16/44,46,48 | 1 |
| ACC-18 | ROOF | 50A | 208 | 3 | 60A | 60A/3P | 3 #6, 1 #10 GND IN 1" C | 1LNL15/20,22,24 | 1 |
| ACC-19 | ROOF | 50A | 208 | 3 | 60A | 60A/3P | 3 #6, 1 #10 GND IN 1" C | 1LNL16/7,9,11 | 1 |
| ACC-20 | ROOF | 50A | 208 | 3 | 60A | 60A/3P | 3 #6, 1 #10 GND IN 1" C | 1LNL16/8,10,12 | 1 |
| ACC-21 | ROOF | 50A | 208 | 3 | 60A | 60A/3P | 3 #6, 1 #10 GND IN 1" C | 1LNL16/13,15,17 | 1 |
| ACC-22 | ROOF | 50A | 208 | 3 | 60A | 60A/3P | 3 #6, 1 #10 GND IN 1" C | 1LNL16/14,16,18 | 1 |
| ACC-23 | ROOF | 50A | 208 | 3 | 60A | 60A/3P | 3 #6, 1 #10 GND IN 1" C | 1LNL14/23,25,27 | 1 |
| ACC-24 | ROOF | 50A | 208 | 3 | 60A | 60A/3P | 3 #6, 1 #10 GND IN 1" C | 1LNL15/33,35,37 | 1 |
| ACC-25 | ROOF | 50A | 208 | 3 | 60A | 60A/3P | 3 #6, 1 #10 GND IN 1" C | 1LNL15/23,25,27 | 1 |
| ACC-26 | EXTERIOR OUTSIDE CAFÉ | 50A | 208 | 3 | 60A | 60A/3P | 3 #6, 1 #10 GND IN 1" C | 1LNL15/34,36,38 | 1 |
| ACC-27 | EXTERIOR OUTSIDE CAFÉ | 50A | 208 | 3 | 60A | 60A/3P | 3 #6, 1 #10 GND IN 1" C | 1LNL15/28,30,32 | 1 |
| FC-1 | SECURE VESTIBULE 102 | 50A | 120 | 1 | 15A | 20A/1P | 2 #12, 1 #12 GND IN 3/4" C | 1LNL11/9 | 1,2 |
| RBU-1 | CORRIDOR | 226W | 208 | 1 | 1A | 20A/2P | 2 #12, 1 #12 GND IN 3/4" C | 1LNL12/10,12 | 1,2 |
| RBU-2 | CORRIDOR | 226W | 208 | 1 | 1A | | 2 #12, 1 #12 GND IN 3/4" C | | |
| RBU-3 | CORRIDOR | 226W | 208 | 1 | 1A | 20A/2P | 2 #12, 1 #12 GND IN 3/4" C | 1LNL12/13,15 | 1,2 |
| RBU-4 | CORRIDOR | 226W | 208 | 1 | 1A | | 2 #12, 1 #12 GND IN 3/4" C | | |
| RBU-5 | ENL 101G | 110W | 208 | 1 | 1A | 20A/2P | 2 #12, 1 #12 GND IN 3/4" C | 1LNL12/14,16 | 1,2 |
| RBU-6 | MAC LAB 200 | 226W | 208 | 1 | 1A | | 2 #12, 1 #12 GND IN 3/4" C | | |
| RBU-7 | CORRIDOR | 226W | 208 | 1 | 1A | 20A/2P | 2 #12, 1 #12 GND IN 3/4" C | 1LNL13/13,15 | 1,2 |
| RBU-8 | CORRIDOR | 226W | 208 | 1 | 1A | | 2 #12, 1 #12 GND IN 3/4" C | | |
| RBU-9 | CORRIDOR | 110W | 208 | 1 | 1A | 20A/2P | 2 #12, 1 #12 GND IN 3/4" C | 1LNL12/24,26 | 1 |
| RBU-10 | CORRIDOR | 110W | 208 | 1 | 1A | | 2 #12, 1 #12 GND IN 3/4" C | | |
| RBU-11 | CORRIDOR | 226W | 208 | 1 | 1A | 20A/2P | 2 #12, 1 #12 GND IN 3/4" C | 1LNL13/12,14 | 1,2 |
| RBU-12 | CORRIDOR | 110W | 208 | 1 | 1A | | 2 #12, 1 #12 GND IN 3/4" C | | |
| RBU-13 | CORRIDOR | 226W | 208 | 1 | 1A | 20A/2P | 2 #12, 1 #12 GND IN 3/4" C | 1LNL11/12,14 | 1,2 |
| RBU-14 | CORRIDOR | 226W | 208 | 1 | 1A | | 2 #12, 1 #12 GND IN 3/4" C | | |
| RBU-15 | MAIN OFFICE 400 | 226W | 208 | 1 | 1A | 20A/2P | 2 #12, 1 #12 GND IN 3/4" C | 1LNL11/6,8,10 | 1,2 |
| EC-1 | MAIN OFFICE 400 | 13.5KW | 208 | 3 | 65A | 70A/3P | 3 #4, 1 #10 GND IN 1-1/2" C | | |
| EC-2 | RESOURCE | 5.5KW | 208 | 3 | 27A | 30A/3P | 3 #10, 1 #12 GND IN 3/4" C | 1LNL12/17,19,21 | 1,2 |
| EC-3 | NURSE 212 | 3.5KW | 208 | 3 | 17A | 20A/3P | 3 #12, 1 #12 GND IN 3/4" C | 1LNL12/18,20,22 | 1,2 |
| SSO-1 | ROOF | 50A | 208 | 3 | 60A | 60A/3P | 3 #6, 1 #10 GND IN 1" C | 1LNL14/29,31,33 | 1 |

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. REMOVE 1-POLE CIRCUIT BREAKERS IN SPACE INDICATED. PLACE 1-POLE CIRCUIT BREAKERS IN OPEN SPACES WITHIN PANEL.

PANEL: 1LNL14

LOCATION: JC 113

VOLTAGE:

FED FROM: MDP

MOUNTING: Surface

A.I.C. RATING:

MCB RATING: Type 1

MAIN BUS RATING: 800 A

| 1. | BRKR | LOAD DESCRIPTION | A (VA) | | B (VA) | | C (VA) | | LOAD DESCRIPTION | BRKR | ... |
|---------------------|------|------------------|---------------|-------|-----------|-------|----------------|-------|------------------|--------------|-----|
| 2 | | | 11889 | 9006 | | | | | | | 2 |
| 3 | 125 | 3 ERU-1 | | | 11889 | 9006 | | | ERU-2 | 3 | 100 |
| 5 | | | | | | | 11889 | 9006 | | | 6 |
| 7 | | | 7205 | 7205 | | | | | | | 8 |
| 9 | 60 | 3 ACC-1 | | | 7205 | 7205 | | | ACC-2 | 3 | 60 |
| 11 | | | | | | | | | | | 10 |
| 13 | | | 7205 | 7205 | | | 7205 | 7205 | | | 11 |
| 15 | 60 | 3 ACC-3 | | | 7205 | 7205 | | | ACC-4 | 3 | 60 |
| 17 | | | | | | | 7205 | 7205 | | | 18 |
| 19 | | | | | | | | | | | 20 |
| 21 | 20 | 2 ERU-12 | 624 | 7205 | | | | | ACC-8 | 3 | 60 |
| 23 | | | | | 624 | 7205 | | | | | 24 |
| 25 | 60 | 3 ACC-23 | | | | | 7205 | 7205 | | | 26 |
| 27 | | | 7205 | 11889 | | | | | ERU-3 | 3 | 125 |
| 29 | | | | | 7205 | 11889 | | | | | 30 |
| 31 | 60 | 3 SSO-1 | 7205 | 7205 | | | 7205 | 11889 | | | 32 |
| 33 | | | | | 7205 | 7205 | | | ACC-5 | 3 | 60 |
| 35 | 20 | 1 SPARE | | | | | 0 | 7205 | | | 34 |
| 37 | 20 | 1 SPARE | | | | | | | | | 36 |
| 39 | 20 | 1 SPARE | 0 | 7205 | | | | | ACC-7 | 3 | 60 |
| 41 | | | | | 0 | 7205 | | | | | 38 |
| 43 | 60 | 3 ACC-6 | | | | | 7205 | 7205 | | | 40 |
| 45 | | | 7205 | -- | | | | | SPACE | 1 | -- |
| 47 | -- | 1 SPACE | | | 7205 | -- | | | SPACE | 1 | -- |
| 49 | -- | 1 SPACE | | | | | -- | -- | SPACE | 1 | -- |
| 51 | -- | 1 SPACE | -- | -- | | | | | SPACE | 1 | -- |
| 53 | -- | 1 SPACE | | | -- | -- | | | SPACE | 1 | -- |
| TOTAL LOAD | | | 105458 VA | | 105458 VA | | 104834 VA | | | | |
| Load Classification | | | | | | | | | | Panel Totals | |
| Load | | Connected VA | Demand Factor | | Demand VA | | Connected Load | | | | |
| Recept. | | | | | | | 315749 VA | | | | |
| Lighting | | | | | | | Estimated Load | | | | |
| HVAC | | | | | | | 236812 VA | | | | |
| Motors | | | | | | | Connected Amps | | | | |
| Refrig. | | | | | | | 876 A | | | | |
| Kitchen | | | | | | | Demand Amps | | | | |
| Misc. | | 315749 VA | 75.00% | | 236812 VA | | 657 A | | | | |

PANEL: 1LNL15

LOCATION: CL 200A

VOLTAGE:

FED FROM: MDP

MOUNTING: Surface

A.I.C. RATING:

MCB RATING: Type 1

MAIN BUS RATING: 800 A

| BRKR | LOAD DESCRIPTION | | A (VA) | | B (VA) | | C (VA) | | LOAD DESCRIPTION | BRKR | ... |
|------------|------------------|----------|----------|-------|----------|-------|----------|-------|------------------|------|-----|
| 1 | 125 | 3 ERU-5 | 11889 | 11528 | | | | | ERU-6 | 3 | 125 |
| 3 | | | | | 11889 | 11528 | | | | | |
| 5 | | | | | | | 11889 | 11528 | | | |
| 7 | | | | | | | | | | | |
| 9 | 60 | 3 ACC-9 | 7205 | 7205 | | | | | ACC-10 | 3 | 60 |
| 11 | | | | | | | 7205 | 7205 | | | |
| 13 | 60 | 3 ACC-12 | 7205 | 7205 | | | | | ACC-11 | 3 | 60 |
| 15 | | | | | | | 7205 | 7205 | | | |
| 17 | 20 | 2 ERU-15 | 1560 | 7205 | | | | | ACC-18 | 3 | 60 |
| 19 | | | | | | | 7205 | 7205 | | | |
| 21 | 60 | 3 ACC-25 | 7205 | -- | | | | | SPACE | 1 | -- |
| 23 | | | | | | | 7205 | 7205 | | | |
| 25 | 20 | 2 ERU-16 | 1560 | 7205 | | | | | ACC-27 | 3 | 60 |
| 27 | | | | | | | | | | | |
| 29 | 60 | 3 ACC-24 | | | | | | | ACC-26 | 3 | 60 |
| 31 | | | | | | | 7205 | 7205 | | | |
| 33 | 80 | 3 RTU-1 | 7205 | 7205 | | | | | ERU-14 | 2 | 20 |
| 35 | | | | | | | 7686 | 1040 | | | |
| 37 | 20 | 2 ERU-13 | 7686 | -- | | | | | SPACE | 1 | -- |
| 39 | | | | | | | 1040 | -- | | | |
| 41 | -- | 1 SPACE | -- | -- | | | | | SPACE | 1 | -- |
| 43 | | | | | | | 1040 | -- | | | |
| 45 | -- | 1 SPACE | -- | -- | | | | | SPACE | 1 | -- |
| 47 | | | | | | | -- | -- | | | |
| 49 | -- | 1 SPACE | -- | -- | | | | | SPACE | 1 | -- |
| 51 | | | | | | | -- | -- | | | |
| 53 | -- | 1 SPACE | -- | -- | | | | | SPACE | 1 | -- |
| 55 | | | | | | | -- | -- | | | |
| TOTAL LOAD | | | 99068 VA | | 99588 VA | | 99588 VA | | | | |

| Load Classification | | | | Panel Totals | |
|---------------------|--------------|---------------|-----------|----------------|-----------|
| Load | Connected VA | Demand Factor | Demand VA | Connected Load | 298245 VA |
| Recept. | | | | Estimated Load | 223684 VA |
| Lighting | | | | Connected Amps | 828 A |
| HVAC | | | | Demand Amps | 621 A |
| Motors | | | | | |
| Refrig. | | | | | |
| Kitchen | | | | | |
| Misc. | 298245 VA | 75.00% | 223684 VA | | |

1/16/2023 10:09:21 AM <project location> REVIT PROJECT FILES ON BIM360

| EQUIPMENT | LOCATION | HP/FLA | VOLTS | PHASE | AMPS | BREAKER SIZE | WIRE/CONDUIT SIZE | PANEL/CIRCUIT | REMARKS: |
|-----------|---------------|--------|-------|-------|-------|--------------|-----------------------------|------------------|----------|
| SSI-67 | MATH RTI 304 | 0.84 | 208 | 1 | 0.34A | 20A/2P | 2 #12, 1 #12 GND IN 3/4" C | 1LNLI13/6,8 | 1,2 |
| SSI-68 | 4TH GRADE 306 | 0.34 | 208 | 1 | 0.34A | | 2 #12, 1 #12 GND IN 3/4" C | | |
| SSI-69 | 4TH GRADE 306 | 0.34 | 208 | 1 | 0.34A | | 2 #12, 1 #12 GND IN 3/4" C | | |
| SSI-70 | 4TH GRADE 308 | 0.34 | 208 | 1 | 0.34A | | 2 #12, 1 #12 GND IN 3/4" C | | |
| SSI-71 | 4TH GRADE 308 | 0.34 | 208 | 1 | 0.34A | | 2 #12, 1 #12 GND IN 3/4" C | | |
| SSI-72 | 3RD GRADE 310 | 0.34 | 208 | 1 | 0.34A | | 2 #12, 1 #12 GND IN 3/4" C | | |
| SSI-73 | 3RD GRADE 310 | 0.34 | 208 | 1 | 0.34A | 20A/2P | 2 #12, 1 #12 GND IN 3/4" C | 1LNLI13/9,11 | 1,2 |
| SSI-74 | 3RD GRADE 312 | 0.34 | 208 | 1 | 0.34A | | 2 #12, 1 #12 GND IN 3/4" C | | |
| SSI-75 | 3RD GRADE 312 | 0.34 | 208 | 1 | 0.34A | | 2 #12, 1 #12 GND IN 3/4" C | | |
| SSI-76 | 3RD GRADE 311 | 0.34 | 208 | 1 | 0.34A | | 2 #12, 1 #12 GND IN 3/4" C | | |
| SSI-77 | 3RD GRADE 311 | 0.34 | 208 | 1 | 0.34A | | 2 #12, 1 #12 GND IN 3/4" C | | |
| SSI-78 | 5TH GRADE 309 | 0.34 | 208 | 1 | 0.34A | | 2 #12, 1 #12 GND IN 3/4" C | | |
| SSI-79 | 5TH GRADE 309 | 0.34 | 208 | 1 | 0.34A | 20A/2P | 2 #12, 1 #12 GND IN 3/4" C | 1LNLI13/9,11 | 1,2 |
| SSI-80 | 5TH GRADE 307 | 0.34 | 208 | 1 | 0.34A | | 2 #12, 1 #12 GND IN 3/4" C | | |
| SSI-81 | 5TH GRADE 307 | 0.34 | 208 | 1 | 0.34A | | 2 #12, 1 #12 GND IN 3/4" C | | |
| SSI-82 | 4TH GRADE 305 | 0.34 | 208 | 1 | 0.34A | | 2 #12, 1 #12 GND IN 3/4" C | | |
| SSI-83 | 4TH GRADE 305 | 0.34 | 208 | 1 | 0.34A | | 2 #12, 1 #12 GND IN 3/4" C | | |
| SSI-84 | 3RD GRADE 303 | 0.34 | 208 | 1 | 0.34A | | 2 #12, 1 #12 GND IN 3/4" C | | |
| SSI-85 | 3RD GRADE 303 | 0.34 | 208 | 1 | 0.34A | 60A/3P | 2 #12, 1 #12 GND IN 3/4" C | 1LNLI12/25,27,29 | 1 |
| EC-4 | ENL 101G | 9.16KW | 208 | 3 | 45A | | 3 #6, 1 #10 GND IN 1-1/4" C | | |
| EC-5 | MAC LAB 200B | 8.99KW | 208 | 3 | 45A | 60A/3P | 3 #6, 1 #10 GND IN 1-1/4" C | 1LNLI12/28,30,32 | 1 |

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. REMOVE 1-POLE CIRCUIT BREAKERS IN SPACE INDICATED. PLACE 1-POLE CIRCUIT BREAKERS IN OPEN SPACES WITHIN PANEL.

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 | CFF22-40/33/2835 | UNV | 40 | 3500K | 1 |
| B/EM | 2X2 RECESSED LED FLAT PANEL EMERGENCY BATTERY BACKUP | CURRENT LIGHTING | CFF22-40/33/2835-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 | 1X4 SURFACE MOUNTED LED EXTERIOR | CURRENT LIGHTING | 91L-P-D-2-STD-4-04-SOF-C5-40K-D100-D1-1C-UNV-H72 | UNV | 48 | 4000K | 2 |
| E | 6" LED RECESSED CANOPY DOWNLIGHT | CURRENT LIGHTING | LTR-6RD-H-35L-DM1-LTR-6RD-T-SH-HL-40K-8-WT-ACL-B6 | UNV | 42 | 4000K | |
| EM | 6" LED RECESSED CANOPY DOWNLIGHT WITH EMERGENCY BATTERY BACKUP | CURRENT LIGHTING | LTR-6RD-H-35L-DM1-EMR-LTR-6RD-T-SH-HL-40K-8-WT-ACL-B6 | UNV | 42 | 4000K | 3,4 |
| X | LED EXIT SIGN | CURRENT LIGHTING | CEWSRE | UNV | 3 | | 3,4 |
| EM | LED EMERGENCY FIXTURE | CURRENT LIGHTING | CU2SO | UNV | 4 | | 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 EMERGENCY 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.

PANEL: 1LNLI16

LOCATION: ST. 302B
A.I.C. RATING:
VOLTAGE: MCB RATING: Type I
FED FROM: MDP
MOUNTING: Surface
MAIN BUS RATING: 800 A

| ... | BRKR | LOAD DESCRIPTION | A (VA) | | B (VA) | | C (VA) | | LOAD DESCRIPTION | BRKR | ... |
|---------------------|------|------------------|---------------|-------|-----------|-------|----------------|-------|------------------|------|-----|
| 1 | | | 14050 | 6485 | | | | | | | 2 |
| 3 | 150 | 3 ERU-10 | | | 14050 | 6485 | | | ERU-11 | 3 | 70 |
| 5 | | | | | | | 14050 | 6485 | | | 4 |
| 7 | | | 7205 | 7205 | | | | | | | 6 |
| 9 | 60 | 3 ACC-19 | | | 7205 | 7205 | | | ACC-20 | 3 | 60 |
| 11 | | | | | | | 7205 | 7205 | | | 8 |
| 13 | | | 7205 | 7205 | | | | | | | 10 |
| 15 | 60 | 3 ACC-21 | | | 7205 | 7205 | | | ACC-22 | 3 | 60 |
| 17 | | | | | | | 7205 | 7205 | | | 12 |
| 19 | | | 5164 | 7686 | | | | | | | 14 |
| 21 | 50 | 3 RTU-3 | | | 5164 | 7686 | | | RTU-2 | 3 | 80 |
| 23 | | | | | | | 5164 | 7686 | | | 16 |
| 25 | | | 11889 | 11889 | | | | | | | 18 |
| 27 | 125 | 3 ERU-8 | | | 11889 | 11889 | | | ERU-7 | 3 | 125 |
| 29 | | | | | | | 11889 | 11889 | | | 20 |
| 31 | | | 7205 | 7205 | | | | | | | 22 |
| 33 | 60 | 3 ACC-14 | | | 7205 | 7205 | | | ACC-13 | 3 | 60 |
| 35 | | | | | | | 7205 | 7205 | | | 24 |
| 37 | | | 7205 | 7205 | | | | | | | 26 |
| 39 | 60 | 3 ACC-16 | | | 7205 | 7205 | | | ACC-15 | 3 | 60 |
| 41 | | | | | | | 7205 | 7205 | | | 28 |
| 43 | 20 | 1 SPARE | 0 | 7205 | | | | | | | 30 |
| 45 | 20 | 1 SPARE | | | 0 | 7205 | | | ACC-17 | 3 | 60 |
| 47 | 20 | 1 SPARE | | | | | 0 | 7205 | | | 32 |
| 49 | -- | 1 SPACE | -- | -- | | | | | SPACE | 1 | -- |
| 51 | -- | 1 SPACE | | | -- | -- | | | SPACE | 1 | -- |
| 53 | -- | 1 SPACE | | | | | -- | -- | SPACE | 1 | -- |
| TOTAL LOAD | | | 122008 VA | | 122008 VA | | 122008 VA | | | | |
| Load Classification | | | | | | | | | | | |
| Load | | Connected VA | Demand Factor | | Demand VA | | Panel Totals | | | | |
| Recept. | | | | | | | Connected Load | | 366025 VA | | |
| Lighting | | | | | | | Estimated Load | | 274518 VA | | |
| HVAC | | | | | | | Connected Amps | | 1016 A | | |
| Motors | | | | | | | Demand Amps | | 762 A | | |
| Refrig. | | | | | | | | | | | |
| Kitchen | | | | | | | | | | | |
| Misc. | | 366025 VA | 75.00% | | 274518 VA | | | | | | |

| EQUIPMENT | LOCATION | HP/FLA | VOLTS | PHASE | AMPS | BREAKER SIZE | WIRE/CONDUIT SIZE | PANEL/CIRCUIT | REMARKS: |
|-----------|--------------------------|--------|-------|-------|-------|--------------|----------------------------|---------------|----------|
| SSI-1 | 5TH GRADE 411 | 0.62A | 208 | 1 | 0.62A | 20A/2P | 2 #12, 1 #12 GND IN 3/4" C | 1LNL11/1,3 | 1,2 |
| SSI-2 | 5TH GRADE 411 | 0.62A | 208 | 1 | 0.62A | | 2 #12, 1 #12 GND IN 3/4" C | | |
| SSI-3 | 4TH GRADE 409 | 0.62A | 208 | 1 | 0.62A | | 2 #12, 1 #12 GND IN 3/4" C | | |
| SSI-4 | 4TH GRADE 409 | 0.62A | 208 | 1 | 0.62A | | 2 #12, 1 #12 GND IN 3/4" C | | |
| SSI-5 | 5TH GRADE 407 | 0.62A | 208 | 1 | 0.62A | | 2 #12, 1 #12 GND IN 3/4" C | | |
| SSI-6 | 5TH GRADE 407 | 0.62A | 208 | 1 | 0.62A | | 2 #12, 1 #12 GND IN 3/4" C | | |
| SSI-7 | 5TH GRADE 405 | 0.62A | 208 | 1 | 0.62A | 20A/2P | 2 #12, 1 #12 GND IN 3/4" C | 1LNL11/2,4 | 1,2 |
| SSI-8 | 5TH GRADE 405 | 0.62A | 208 | 1 | 0.62A | | 2 #12, 1 #12 GND IN 3/4" C | | |
| SSI-9 | 5TH GRADE 410 | 0.62A | 208 | 1 | 0.62A | | 2 #12, 1 #12 GND IN 3/4" C | | |
| SSI-10 | 5TH GRADE 410 | 0.62A | 208 | 1 | 0.62A | | 2 #12, 1 #12 GND IN 3/4" C | | |
| SSI-11 | 5TH GRADE 408 | 0.62A | 208 | 1 | 0.62A | | 2 #12, 1 #12 GND IN 3/4" C | | |
| SSI-12 | 5TH GRADE 408 | 0.62A | 208 | 1 | 0.62A | | 2 #12, 1 #12 GND IN 3/4" C | | |
| SSI-13 | 5TH GRADE 406 | 0.62A | 208 | 1 | 0.62A | 20A/2P | 2 #12, 1 #12 GND IN 3/4" C | 1LNL11/5,7 | 1,2 |
| SSI-14 | 5TH GRADE 406 | 0.62A | 208 | 1 | 0.62A | | 2 #12, 1 #12 GND IN 3/4" C | | |
| SSI-15 | CONFERENCE ROOM 404 | 0.62A | 208 | 1 | 0.62A | | 2 #12, 1 #12 GND IN 3/4" C | | |
| SSI-16 | ASSISTANT PRINCIPAL 400B | 0.41 | 208 | 1 | 0.34A | | 2 #12, 1 #12 GND IN 3/4" C | | |
| SSI-17 | PRINCIPAL 400C | 0.41 | 208 | 1 | 0.34A | | 2 #12, 1 #12 GND IN 3/4" C | | |
| SSI-18 | MAIN OFFICE 400 | 0.41 | 208 | 1 | 0.34A | | 2 #12, 1 #12 GND IN 3/4" C | | |
| SSI-19 | MAIN OFFICE 400 | 0.41 | 208 | 1 | 0.34A | 20A/2P | 2 #12, 1 #12 GND IN 3/4" C | 1LNL12/1,3 | 1,2 |
| SSI-20 | 4TH GRADE 106 | 0.84 | 208 | 1 | 0.34A | | 2 #12, 1 #12 GND IN 3/4" C | | |
| SSI-21 | 4TH GRADE 106 | 0.84 | 208 | 1 | 0.34A | | 2 #12, 1 #12 GND IN 3/4" C | | |
| SSI-22 | 5TH GRADE 108 | 0.84 | 208 | 1 | 0.34A | | 2 #12, 1 #12 GND IN 3/4" C | | |
| SSI-23 | 5TH GRADE 108 | 0.84 | 208 | 1 | 0.34A | | 2 #12, 1 #12 GND IN 3/4" C | | |
| SSI-24 | 4TH GRADE 110 | 0.84 | 208 | 1 | 0.34A | | 2 #12, 1 #12 GND IN 3/4" C | | |
| SSI-25 | 4TH GRADE 110 | 0.84 | 208 | 1 | 0.34A | 20A/2P | 2 #12, 1 #12 GND IN 3/4" C | 1LNL12/2,4 | 1,2 |
| SSI-26 | 4TH GRADE 111 | 0.84 | 208 | 1 | 0.34A | | 2 #12, 1 #12 GND IN 3/4" C | | |
| SSI-27 | 4TH GRADE 111 | 0.84 | 208 | 1 | 0.34A | | 2 #12, 1 #12 GND IN 3/4" C | | |
| SSI-28 | 4TH GRADE 109 | 0.84 | 208 | 1 | 0.34A | | 2 #12, 1 #12 GND IN 3/4" C | | |
| SSI-29 | 4TH GRADE 109 | 0.84 | 208 | 1 | 0.34A | | 2 #12, 1 #12 GND IN 3/4" C | | |
| SSI-30 | MAKERSPACE 107 | 0.84 | 208 | 1 | 0.34A | | 2 #12, 1 #12 GND IN 3/4" C | | |
| SSI-31 | MAKERSPACE 107 | 0.84 | 208 | 1 | 0.34A | 20A/2P | 2 #12, 1 #12 GND IN 3/4" C | 1LNL12/5,7 | 1,2 |
| SSI-32 | 4TH GRADE 105 | 0.84 | 208 | 1 | 0.34A | | 2 #12, 1 #12 GND IN 3/4" C | | |
| SSI-33 | 4TH GRADE 105 | 0.84 | 208 | 1 | 0.34A | | 2 #12, 1 #12 GND IN 3/4" C | | |
| SSI-34 | BOOK ROOM 101A | 0.41 | 208 | 1 | 0.34A | | 2 #12, 1 #12 GND IN 3/4" C | | |
| SSI-35 | ENL 101G | 0.41 | 208 | 1 | 0.34A | | 2 #12, 1 #12 GND IN 3/4" C | | |
| SSI-36 | MAC LAB 200B | 0.41 | 208 | 1 | 0.34A | | 2 #12, 1 #12 GND IN 3/4" C | | |
| SSI-37 | MAC LAB 200 | 0.41 | 208 | 1 | 0.34A | 20A/2P | 2 #12, 1 #12 GND IN 3/4" C | 1LNL12/6,8 | 1,2 |
| SSI-38 | PSYCH. 202 | 0.41 | 208 | 1 | 0.34A | | 2 #12, 1 #12 GND IN 3/4" C | | |
| SSI-39 | PSYCH. 204 | 0.41 | 208 | 1 | 0.34A | | 2 #12, 1 #12 GND IN 3/4" C | | |
| SSI-40 | 4TH GRADE 206 | 0.84 | 208 | 1 | 0.34A | | 2 #12, 1 #12 GND IN 3/4" C | | |
| SSI-41 | 4TH GRADE 206 | 0.84 | 208 | 1 | 0.34A | | 2 #12, 1 #12 GND IN 3/4" C | | |
| SSI-42 | 3RD GRADE 208 | 0.84 | 208 | 1 | 0.34A | | 2 #12, 1 #12 GND IN 3/4" C | | |
| SSI-43 | 3RD GRADE 208 | 0.84 | 208 | 1 | 0.34A | 20A/2P | 2 #12, 1 #12 GND IN 3/4" C | 1LNL12/9,11 | 1,2 |
| SSI-44 | TECH. 210 | 0.84 | 208 | 1 | 0.34A | | 2 #12, 1 #12 GND IN 3/4" C | | |
| SSI-45 | TECH. 210 | 0.84 | 208 | 1 | 0.34A | | 2 #12, 1 #12 GND IN 3/4" C | | |
| SSI-46 | 3RD GRADE 209 | 0.84 | 208 | 1 | 0.34A | | 2 #12, 1 #12 GND IN 3/4" C | | |
| SSI-47 | 3RD GRADE 209 | 0.84 | 208 | 1 | 0.34A | | 2 #12, 1 #12 GND IN 3/4" C | | |
| SSI-48 | 4TH GRADE 207 | 0.84 | 208 | 1 | 0.34A | | 2 #12, 1 #12 GND IN 3/4" C | | |
| SSI-49 | 4TH GRADE 207 | 0.84 | 208 | 1 | 0.34A | 20A/2P | 2 #12, 1 #12 GND IN 3/4" C | 1LNL13/1,3 | 1,2 |
| SSI-50 | 3RD GRADE 205 | 0.34 | 208 | 1 | 0.34A | | 2 #12, 1 #12 GND IN 3/4" C | | |
| SSI-51 | 3RD GRADE 205 | 0.34 | 208 | 1 | 0.34A | | 2 #12, 1 #12 GND IN 3/4" C | | |
| SSI-52 | I.T. 201B | 0.41 | 208 | 1 | 0.34A | | 2 #12, 1 #12 GND IN 3/4" C | | |
| SSI-53 | RESOURCE ROOM 202A | 0.41 | 208 | 1 | 0.34A | | 2 #12, 1 #12 GND IN 3/4" C | | |
| SSI-54 | NURSE 212 | 0.41 | 208 | 1 | 0.34A | | 2 #12, 1 #12 GND IN 3/4" C | | |
| SSI-55 | NURSE 212A | 0.41 | 208 | 1 | 0.34A | 20A/2P | 2 #12, 1 #12 GND IN 3/4" C | 1LNL13/2,4 | 1,2 |
| SSI-56 | MUSIC 300C | 0.84 | 208 | 1 | 0.34A | | 2 #12, 1 #12 GND IN 3/4" C | | |
| SSI-57 | MUSIC 300C | 0.84 | 208 | 1 | 0.34A | | 2 #12, 1 #12 GND IN 3/4" C | | |
| SSI-58 | O.T. 300B | 0.41 | 208 | 1 | 0.34A | | 2 #12, 1 #12 GND IN 3/4" C | | |
| SSI-59 | READING 300A | 0.41 | 208 | 1 | 0.34A | | 2 #12, 1 #12 GND IN 3/4" C | | |
| SSI-60 | COPY/ST. 302 | 0.84 | 208 | 1 | 0.34A | | 2 #12, 1 #12 GND IN 3/4" C | | |
| SSI-61 | 3RD GRADE 301 | 0.84 | 208 | 1 | 0.34A | 20A/2P | 2 #12, 1 #12 GND IN 3/4" C | 1LNL13/5,7 | 1,2 |
| SSI-62 | 3RD GRADE 301 | 0.84 | 208 | 1 | 0.34A | | 2 #12, 1 #12 GND IN 3/4" C | | |
| SSI-63 | 3RD GRADE 301A | 0.84 | 208 | 1 | 0.34A | | 2 #12, 1 #12 GND IN 3/4" C | | |
| SSI-64 | 3RD GRADE 301A | 0.84 | 208 | 1 | 0.34A | | 2 #12, 1 #12 GND IN 3/4" C | | |
| SSI-65 | ART 301B | 0.84 | 208 | 1 | 0.34A | | 2 #12, 1 #12 GND IN 3/4" C | | |
| SSI-66 | ART 301B | 0.84 | 208 | 1 | 0.34A | | 2 #12, 1 #12 GND IN 3/4" C | | |



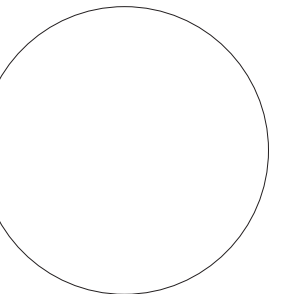
Student Number
 57.20
 Name
**SOUTH ORANGETOWN CENTRAL
 SCHOOL DISTRICT**
 Student Name
PAGE 1: 2022 BOND

† Office Address
VAN WYCK RD. BLAUVELT, NY 10913

WILLIAM O. SCHAEFER SED#: 50-03-01-06-0-012-019
 OTTAGE LAKE ELEMENTARY SED#: 50-03-01-06-0-010-020
 APPAN ZEE HIGH SCHOOL SED#: 50-03-01-06-0-006-032
 WILLIAM O. SCHAEFER S&L SED#: 50-03-01-06-0-012-020
 OTTAGE LAKE S&L SED#: 50-03-01-06-0-010-023
 OTTAGE LAKE LIBRARY S&L SED#: 50-03-01-06-0-023-005
 OTTAGE OUTDOOR CLASSROOM SED#: 50-03-01-06-7-053-031
 OTTAGE OUTDOOR CLASSROOM SED#: 50-03-01-06-7-056-031
 OTTAGE OUTDOOR CLASSROOM SED#: 50-03-01-06-7-054-020
 OTTAGE OUTDOOR CLASSROOM SED#: 50-03-01-06-7-055-031

| SUBJECT ISSUE & REVISION SCHEDULE | |
|-----------------------------------|-----------------|
| Date | Description |
| 11/17/2023 | BID ADDENDUM #4 |

PROFESSIONAL STAMPS



THE NEW YORK STATE EDUCATION LAW AND THE COMMISSIONERS OF EDUCATION REQUIRE THAT 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 IS THE SEAL OF AN ARCHITECT, ENGINEER OR SURVEYOR IF ALTERED, THE ALTERATION MUST BE INITIALED BY THE PERSON WHO MADE THE ALTERATION, WITH THE SIGNATURE AND DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

KEY INFORMATION

| | |
|--------|-------------------|
| 8/2023 | Scale AS NOTED |
|--------|-------------------|

† Status

By _____ Checked By _____

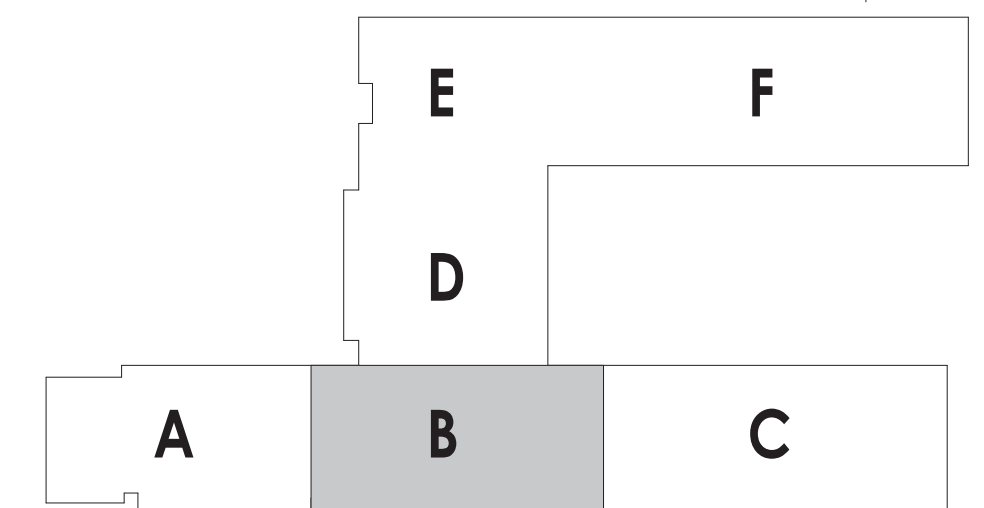
JBT

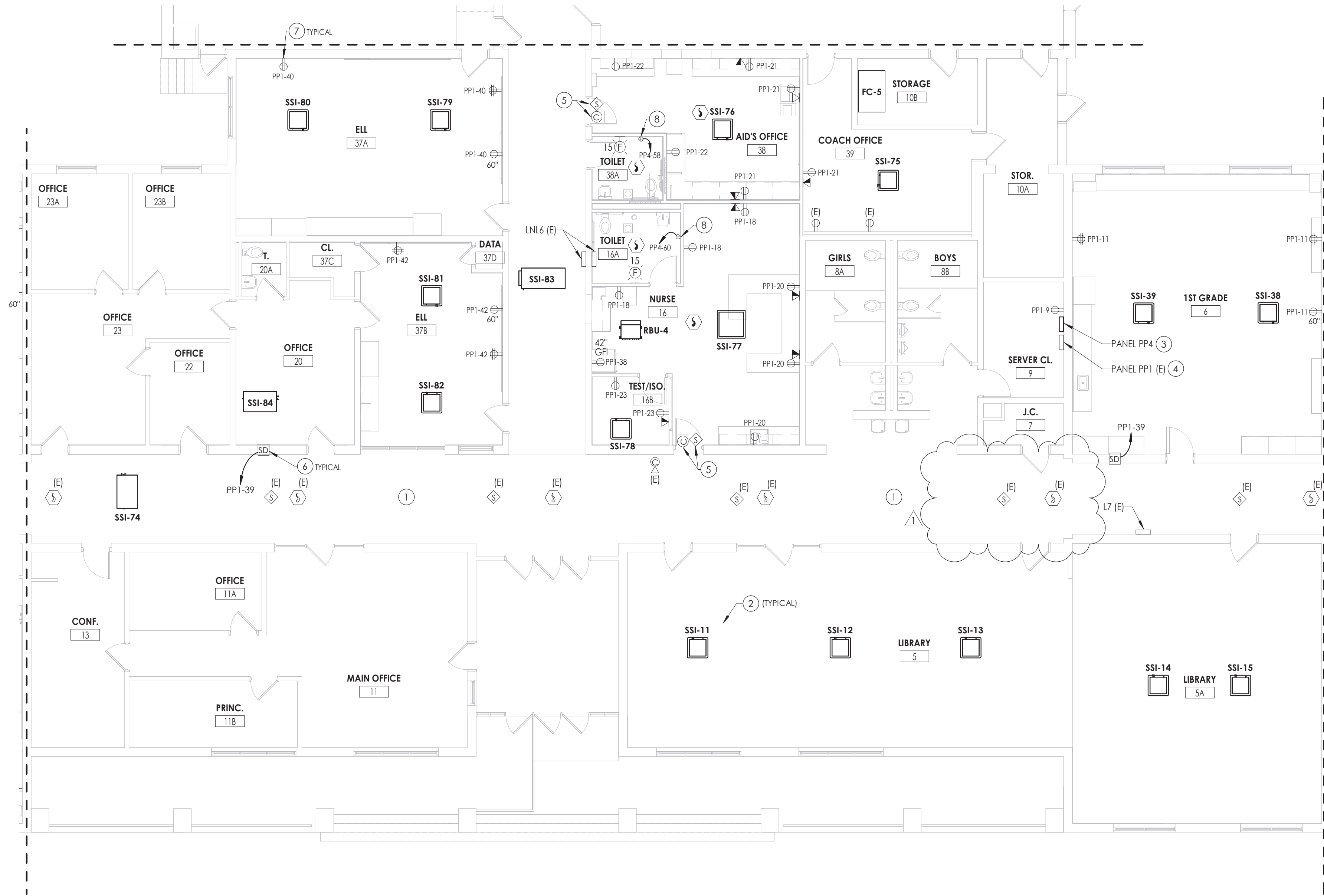
OF DEMOLITION PLAN-AREA

WOS
E107



KEY PLAN:





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

GENERAL NOTES

- A. FOR ALL 120V DEVICES SHOWN, WIRE WITH (2)#12, #12G IN 3/4" C AND CONNECT TO 20A/1P CIRCUIT BREAKER IN PANEL INDICATED TO CIRCUIT INDICATED ADJACENT TO DEVICE.
- B. ALL CIRCUITS OVER 100' SHALL BE WIRED WITH #10 THHN.

KEY NOTES

1. EXISTING CEILING MOUNTED DEVICES TO BE RE-INSTALLED BACK IN CEILING AS NECESSARY TO ACCOMMODATE ANY CEILING REMOVAL/REPLACEMENTS. CONNECT TO EXISTING TAGGED WIRING.
2. ALL MECHANICAL EQUIPMENT POWER REQUIREMENTS ARE NOTED ON DRAWINGS E901, E902, AND E903. LABEL INDICATES EQUIPMENT TAG. REFER TO RESPECTIVE TAG ON DRAWINGS NOTED.
3. PROVIDE A 120/208V, 3-PHASE, 4-WIRE, 800-AMP, 66 CIRCUIT PANELBOARD AT LOCATION INDICATED. PROVIDE (2) SETS OF (4) #500 MCM, (1) #3 GND IN (2) 4" C FROM NEW PANEL TO MDP, REFER TO DRAWING WOS-E204.
4. UTILIZE EXISTING 20A, 1-POLE CIRCUIT BREAKERS IN EXISTING PANELBOARD.
5. NEW LOCATION OF EXISTING CLOCK/SPEAKER UNITS. CONNECT TO EXISTING TAGGED WIRING.
6. PROVIDE FIRE/SMOKE DAMPER FIRE ALARM RELAY AT LOCATIONS INDICATED. PROVIDE WIRING TO CONNECT TO EXISTING FIRE ALARM SYSTEM. PROVIDE (2) #12, (1) #12GND IN 3/4" CONDUIT TO FIRE/SMOKE DAMPER ACTUATOR FROM PANEL AND CIRCUIT INDICATED.
7. NEW RECEPTACLES TO BE PLACED IN WIREMOLD AT THESE LOCATIONS. WIREMOLD BY OTHERS. COORDINATE FINAL LOCATIONS WITH OWNER AND T-SERIES DRAWINGS.
8. PROVIDE (2) #12, (1) #12 GND IN 3/4" CONDUIT FROM PANEL PP4 TO EACH HAND DRYER LOCATION INDICATED.

PROJECT INFORMATION

Project Number
14457.20
Client Name
SOUTH ORANGETOWN CENTRAL SCHOOL DISTRICT
Project Name
PHASE 1: 2022 BOND

District Office Address
160 VAN WYCK RD. BLAUVELT, NY 10913

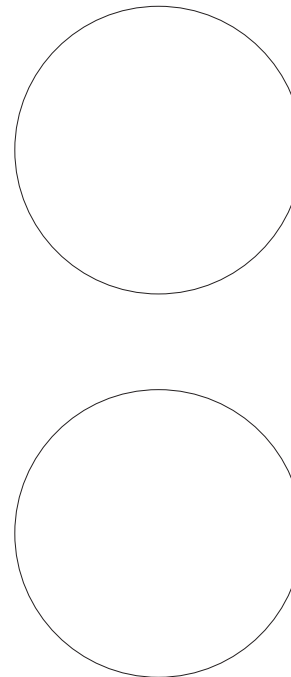
SOUTH ORANGETOWN CSD

- WILLIAM O. SCHAEFER SED#30-03-01-06-0-012-019
□ COTTAGE LANE ELEMENTARY SED# 30-03-01-06-0-010-022
□ TAPPAN ZEE HIGH SCHOOL SED#30-03-01-06-0-006-032
□ WILLIAM O. SCHAEFER SAL SED# 30-03-01-06-0-012-020
□ COTTAGE LANE SAL SED# 30-03-01-06-0-010-023
□ COTTAGE LANE LIBRARY SAL SED# 30-03-01-06-0-023-002
□ WOS OUTDOOR CLASSROOM SED# 30-03-01-06-7-033-001
□ TOWNS OUTDOOR CLASSROOM SED# 30-03-01-06-7-036-001
□ CLE OUTDOOR CLASSROOM SED# 30-03-01-06-7-034-001
□ T7HS OUTDOOR CLASSROOM SED# 30-03-01-06-7-035-001

PROJECT ISSUE & REVISION SCHEDULE

| No. | Date | Description |
|-----|------------|-----------------|
| 1 | 11/17/2023 | BID ADDENDUM #4 |

PROFESSIONAL STAMPS



NEW YORK STATE EDUCATION STATUTES
IT IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND THE COMMISSIONERS' REGULATIONS FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED ARCHITECT, ENGINEER OR LAND SURVEYOR, TO ALTER ANY ITEM IN ANY MAP, OR ARCHITECTURAL OR ENGINEERING DRAWING OR SPECIFICATION, OR ANY INSTRUMENT OF SERVICE, OR ANY OTHER DOCUMENT, WITHOUT THE WRITTEN CONSENT OF THE ARCHITECT, ENGINEER OR LAND SURVEYOR. ANY SUCH VIOLATION IS A VIOLATION OF THE EDUCATION LAW AND THE COMMISSIONERS' REGULATIONS, AND IS A CRIMINAL OFFENSE UNDER SECTION 120.00 OF THE EDUCATION LAW AND SECTION 120.01 OF THE COMMISSIONERS' REGULATIONS.

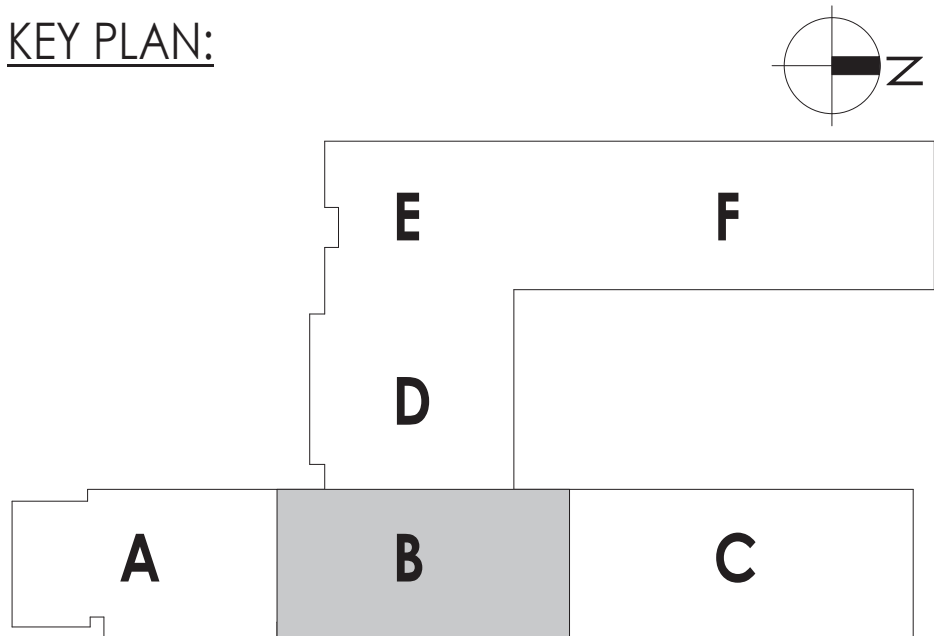
SHEET INFORMATION

Issued
10/18/2023
Scale
1/8" = 1'-0"
Project Status
BID DOCUMENTS
Drawn By
MAY
Checked By
JBT
Drawing Title
FIRST FLOOR NEW WORK PLAN - AREA B

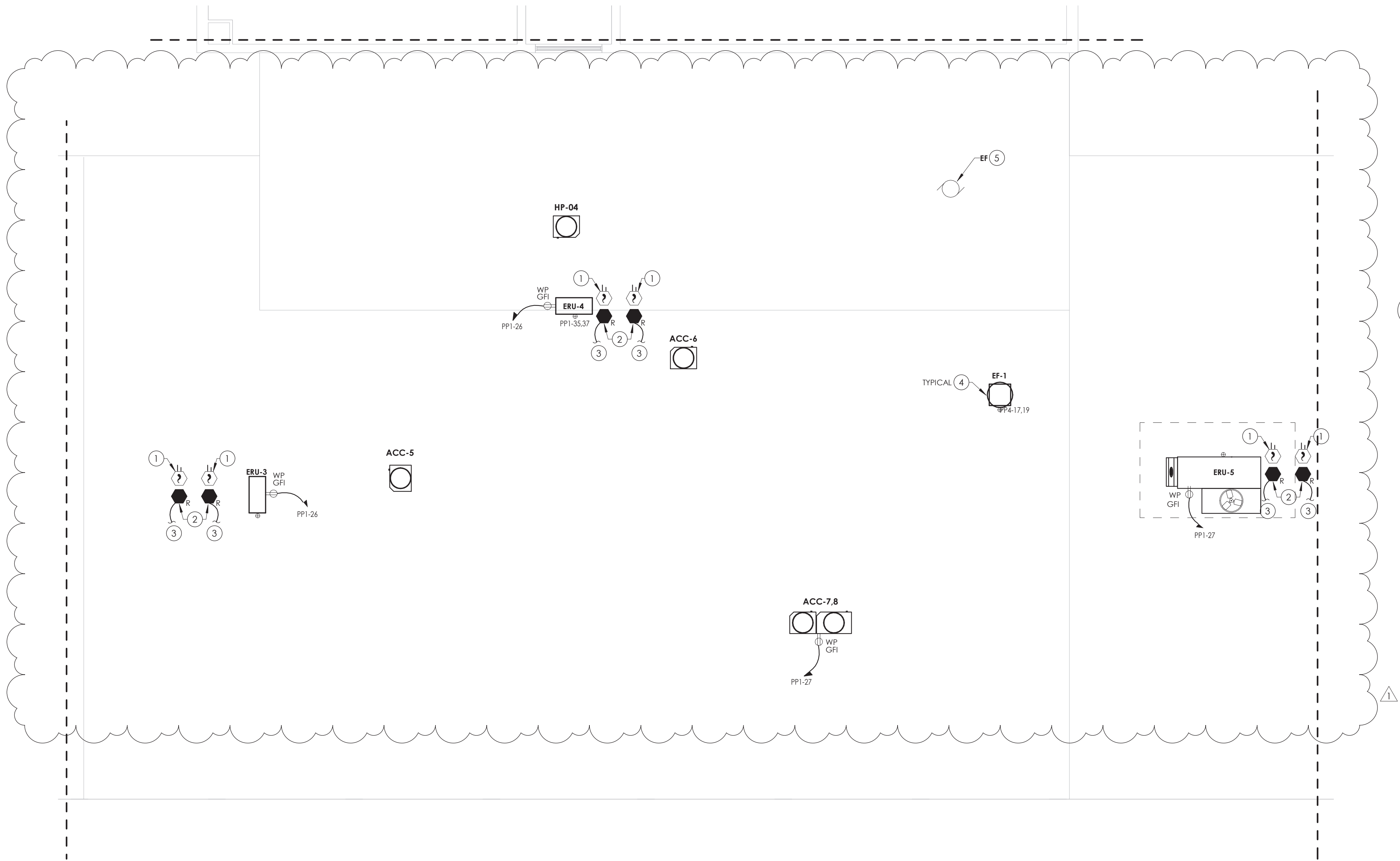
Drawing Number

WOS
E201

KEY PLAN:



11/17/2023 9:16:54 AM <project location> REVIT PROJECT FILES ON BIM360



1 ROOF NEW WORK PLAN - AREA B
E211 1/8" = 1'-0"

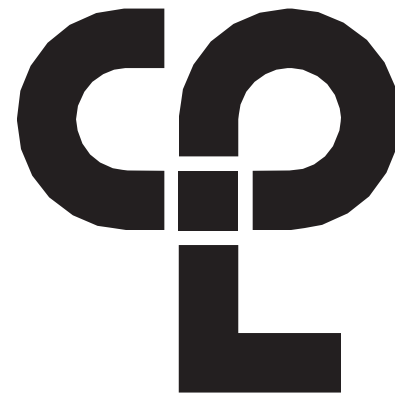
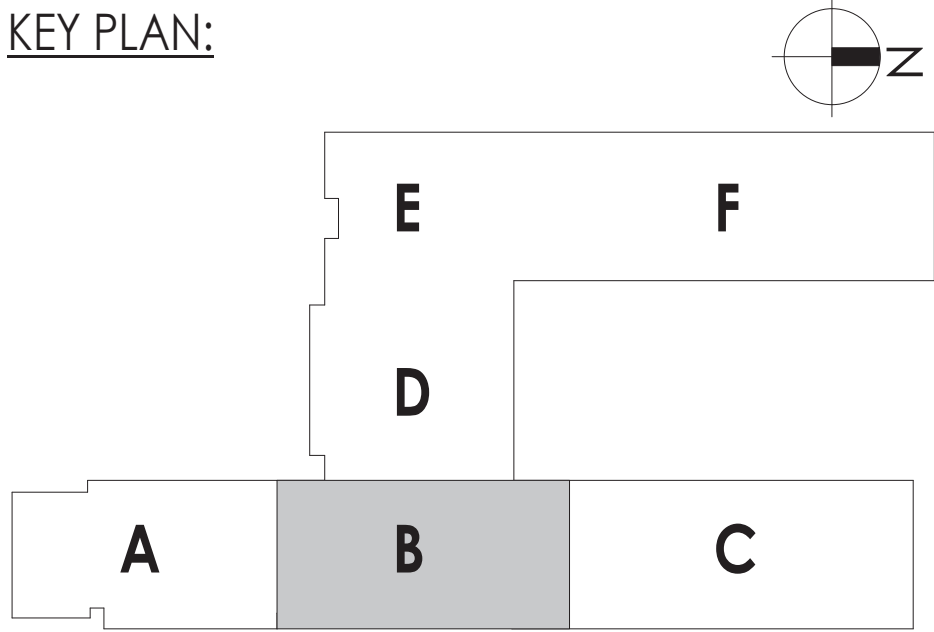
GENERAL NOTES

- A. FOR ALL 120V DEVICES SHOWN, WIRE WITH (2)#12, #12G IN 3/4" AND CONNECT TO 20A/1P CIRCUIT BREAKER IN PANEL INDICATED TO CIRCUIT INDICATED ADJACENT TO DEVICE.
- B. ALL CIRCUITS OVER 100' SHALL BE WIRED WITH #10 THHN.

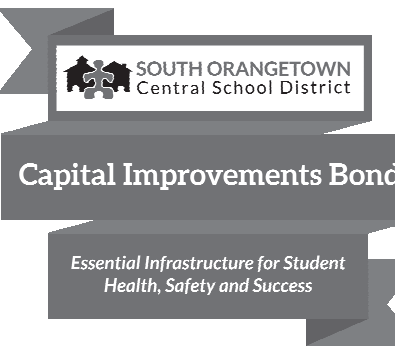
KEY NOTES

- 1 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.
- 2 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.
- 3 PROVIDE ASSOCIATED REMOTE TEST SWITCHES IN CEILING SPACE BELOW.
- 4 ALL MECHANICAL EQUIPMENT POWER REQUIREMENTS ARE NOTED ON DRAWINGS E901, E902, AND E903. LABEL INDICATES EQUIPMENT TAG. REFER TO RESPECTIVE TAG ON DRAWINGS NOTED.
- 5 CONNECT NEW EXHAUST FAN TO EXISTING TAGGED CIRCUITRY. REWORK/EXTEND CIRCUITRY AS NECESSARY TO ACCOMMODATE NEW EQUIPMENT AND ROOF CURB.

KEY PLAN:



CPL | Architecture Engineering Planning
50 Front Street Suite 202,
Newburgh, NY 12550
CPLearn.com



PROJECT INFORMATION

Project Number

14457.20

Client Name

SOUTH ORANGETOWN CENTRAL SCHOOL DISTRICT

Project Name

PHASE 1: 2022 BOND

District Office Address

160 VAN WYCK RD. BLAUVELT, NY 10913

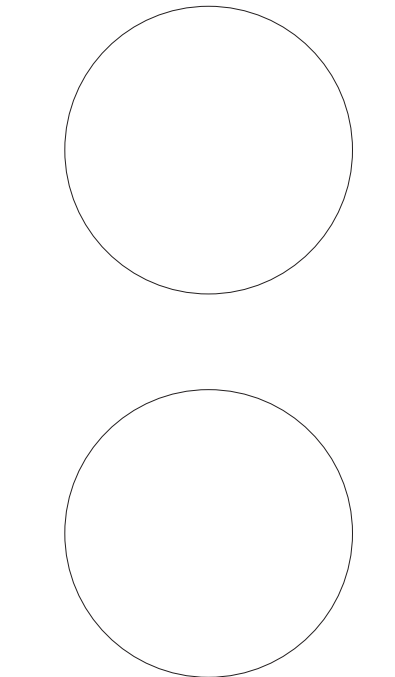
SOUTH ORANGETOWN CSD

- WILLIAM O. SCHAEFER SED#:50-03-01-06-0-012-019
□ COTTAGE LANE ELEMENTARY SED#: 50-03-01-06-0-010-022
□ TAPPAN ZEE HIGH SCHOOL SED#:50-03-01-06-0-004-032
□ WILLIAM O. SCHAEFER SAL SED#: 50-03-01-06-0-012-020
□ COTTAGE LANE SAL SED#: 50-03-01-06-0-010-023
□ COTTAGE LANE LIBRARY SAL SED#: 50-03-01-06-0-023-002
□ WOS OUTDOOR CLASSROOM SED#: 50-03-01-06-7-033-001
□ TOWNS OUTDOOR CLASSROOM SED#: 50-03-01-06-7-036-001
□ CLE OUTDOOR CLASSROOM SED#: 50-03-01-06-7-034-001
□ T2HS OUTDOOR CLASSROOM SED#: 50-03-01-06-7-035-001

PROJECT ISSUE & REVISION SCHEDULE

| No. | Date | Description |
|-----|------------|-----------------|
| 1 | 11/17/2023 | BID ADDENDUM #4 |

PROFESSIONAL STAMPS



NEW YORK STATE EDUCATION STATUTE:
IT IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND THE COMMISSIONERS' REGULATIONS FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED ARCHITECT, ENGINEER OR LAND SURVEYOR, TO ADD AN INITIAL OR ANY OTHER MARKING TO ANY ARCHITECT, ENGINEER OR LAND SURVEYOR'S SEAL, OR TO SIGN, SEAL OR TO SIGN THEIR SEAL AND THE DESIGN, WITHOUT BEING FOLLOWED BY THEIR SIGNATURE AND THE DATE OF SUCH ATTENTION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

SHEET INFORMATION

Issued 10/18/2023 Scale AS NOTED

Project Status

BID DOCUMENTS

Drawn By

MAY

Drawing Title

ROOF NEW WORK PLAN - AREA B

Drawing Number

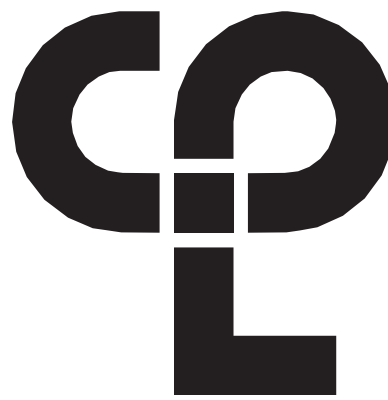
WOS
E211

| EQUIPMENT | LOCATION | HP/FLA | VOLTS | PHASE | AMPS | BREAKER SIZE | WIRE/CONDUIT SIZE | PANEL/CIRCUIT | REMARKS: |
|-----------|------------------|--------|-------|-------|-------|--------------|---------------------------------|---------------|----------|
| ERU-01 | ROOF | 99A | 208 | 3 | 99A | 125A/3P | (3) #1, (1) #6GND IN 1-1/2" C | PP4/49,51,53 | 1 |
| ERU-02 | ROOF | 78A | 208 | 3 | 78A | 100A/3P | (3) #2, (1) #8GND IN 1-1/2" C | PP4/52,54,56 | 1 |
| ERU-03 | ROOF | 10.8A | 208 | 1 | 10.8A | 20A/2P | (2) #12, (1) #12 GND IN 3/4" C | PP1/34,36 | 1 |
| ERU-04 | ROOF | 10.8A | 208 | 1 | 10.8A | 20A/2P | (2) #12, (1) #12 GND IN 3/4" C | PP1/35,37 | 1 |
| ERU-05 | ROOF | 54A | 208 | 3 | 54A | 70A/3P | (3) #4, (1) #8GND IN 1-1/4" C | PP4/28,30,32 | 1 |
| ERU-06 | ROOF | 99A | 208 | 3 | 99A | 125A/3P | (3) #1, (1) #8GND IN 1-1/2" C | PP5/30,32,34 | 1 |
| ERU-07 | ROOF | 54A | 208 | 3 | 54A | 70A/3P | (3) #4, (1) #8GND IN 1-1/4" C | PP5/31,33,35 | 1 |
| ERU-08 | ROOF | 54A | 208 | 3 | 54A | 70A/3P | (3) #4, (1) #8GND IN 1-1/4" C | PP5/36,38,40 | 1 |
| ERU-09 | ROOF | 99A | 208 | 3 | 99A | 125A/3P | (3) #1, (1) #8GND IN 1-1/2" C | PP3/1,3,5 | 1 |
| ERU-10 | ROOF | 78A | 208 | 3 | 78A | 100A/3P | (3) #2, (1) #8GND IN 1-1/2" C | PP3/2,4,6 | 1 |
| ERU-11 | ROOF | 78A | 208 | 3 | 78A | 100A/3P | (3) #2, (1) #8GND IN 1-1/2" C | PP3/7,9,11 | 1 |
| ERU-12 | ROOF | 54A | 208 | 3 | 54A | 70A/3P | (3) #4, (1) #8GND IN 1-1/4" C | PP3/28,28,30 | 1 |
| ERU-13 | ROOF | 120A | 208 | 3 | 120A | 150A/3P | (3) #2/0, (1) #6GND IN 2-1/2" C | PP3/31,33,35 | 1 |
| ACC-01 | ROOF | - | 208 | 3 | 50A | 50A/3P | (3) #6, (1) #10GND IN 1" C | PP4/31,33,35 | 1 |
| ACC-02 | ROOF | - | 208 | 3 | 60A | 60A/3P | (3) #6, (1) #10GND IN 1" C | PP4/37,39,41 | 1 |
| ACC-03 | ROOF | - | 208 | 3 | 50A | 50A/3P | (3) #6, (1) #10GND IN 1" C | PP4/34,36,38 | 1 |
| ACC-04 | ROOF | - | 208 | 3 | 60A | 60A/3P | (3) #6, (1) #10GND IN 1" C | PP4/40,42,44 | 1 |
| ACC-05 | ROOF | - | 208 | 3 | 71A | 90A/3P | (3) #3, (1) #8GND IN 1-1/4" C | PP4/43,45,47 | 1 |
| ACC-06 | ROOF | - | 208 | 3 | 29.3A | 40A/3P | (3) #8, (1) #10GND IN 1" C | PP4/22,24,26 | 1 |
| ACC-07 | ROOF | - | 208 | 3 | 49.8A | 60A/3P | (3) #6, (1) #10GND IN 1" C | PP1/28,30,32 | 1 |
| ACC-08 | ROOF | - | 208 | 3 | 49.8A | 60A/3P | (3) #6, (1) #10GND IN 1" C | PP1/29,31,33 | 1 |
| ACC-09 | ROOF | - | 208 | 3 | 60A | 60A/3P | (3) #6, (1) #10GND IN 1" C | PP5/19,21,23 | 1 |
| ACC-10 | ROOF | - | 208 | 3 | 50A | 50A/3P | (3) #6, (1) #10GND IN 1" C | PP5/12,14,16 | 1 |
| ACC-11 | ROOF | - | 208 | 3 | 59.8A | 70A/3P | (3) #4, (1) #8GND IN 1-1/4" C | PP5/13,15,17 | 1 |
| ACC-12 | ROOF | - | 208 | 3 | 59.8A | 70A/3P | (3) #4, (1) #8GND IN 1-1/4" C | PP5/18,20,22 | 1 |
| ACC-13 | ROOF | - | 208 | 3 | 71A | 90A/3P | (3) #3, (1) #8GND IN 1-1/4" C | PP5/24,26,28 | 1 |
| ACC-14 | ROOF | - | 208 | 3 | 71A | 90A/3P | (3) #3, (1) #8GND IN 1-1/4" C | PP5/25,27,29 | 1 |
| ACC-15 | ROOF | - | 208 | 3 | 59.8A | 70A/3P | (3) #4, (1) #8GND IN 1-1/4" C | PP3/32,34,36 | 1 |
| ACC-16 | ROOF | - | 208 | 3 | 59.8A | 70A/3P | (3) #4, (1) #8GND IN 1-1/4" C | PP3/37,39,41 | 1 |
| ACC-17 | ROOF | - | 208 | 3 | 29.8A | 40A/3P | (3) #8, (1) #10GND IN 1" C | PP3/38,40,42 | 1 |
| ACC-18 | ROOF | - | 208 | 3 | 50A | 50A/3P | (3) #6, (1) #10GND IN 1" C | PP3/8,10,12 | 1 |
| ACC-19 | ROOF | - | 208 | 3 | 60A | 60A/3P | (3) #6, (1) #10GND IN 1" C | PP3/13,15,17 | 1 |
| ACC-20 | ROOF | - | 208 | 3 | 50A | 50A/3P | (3) #6, (1) #10GND IN 1" C | PP3/14,16,18 | 1 |
| ACC-21 | ROOF | - | 208 | 3 | 60A | 60A/3P | (3) #6, (1) #10GND IN 1" C | PP3/19,21,23 | 1 |
| ACC-22 | ROOF | - | 208 | 3 | 50A | 50A/3P | (3) #6, (1) #10GND IN 1" C | PP3/20,22,24 | 1 |
| ACC-23 | ROOF | - | 208 | 3 | 60A | 60A/3P | (3) #6, (1) #10GND IN 1" C | PP3/25,27,29 | 1 |
| SSI-1 | KINDERGARTEN 32 | 3.15A | 208 | 1 | 15A | 20A/2P | (2) #12, (1) #12 GND IN 3/4" C | PP4/13,15 | 1 |
| SSI-2 | KINDERGARTEN 32 | 3.15A | 208 | 1 | 15A | | (2) #12, (1) #12 GND IN 3/4" C | | |
| SSI-3 | KINDERGARTEN 21 | 3.15A | 208 | 1 | 15A | | (2) #12, (1) #12 GND IN 3/4" C | | |
| SSI-4 | KINDERGARTEN 21 | 3.15A | 208 | 1 | 15A | | (2) #12, (1) #12 GND IN 3/4" C | | |
| SSI-5 | KINDERGARTEN 19 | 3.15A | 208 | 1 | 15A | | (2) #12, (1) #12 GND IN 3/4" C | | |
| SSI-6 | KINDERGARTEN 19 | 3.15A | 208 | 1 | 15A | 20A/2P | (2) #12, (1) #12 GND IN 3/4" C | PP4/10,12 | 1 |
| SSI-7 | 1ST GRADE 17 | 0.34A | 208 | 1 | 15A | | (2) #12, (1) #12 GND IN 3/4" C | | |
| SSI-8 | 1ST GRADE 17 | 0.34A | 208 | 1 | 15A | | (2) #12, (1) #12 GND IN 3/4" C | | |
| SSI-9 | FIRST GRADE 15 | 0.34A | 208 | 1 | 15A | | (2) #12, (1) #12 GND IN 3/4" C | | |
| SSI-10 | FIRST GRADE 15 | 0.34A | 208 | 1 | 15A | | (2) #12, (1) #12 GND IN 3/4" C | | |
| SSI-11 | LIBRARY 5 | 0.34A | 208 | 1 | 15A | 20A/2P | (2) #12, (1) #12 GND IN 3/4" C | PP4/14,16 | 1 |
| SSI-12 | LIBRARY 5 | 0.34A | 208 | 1 | 15A | | (2) #12, (1) #12 GND IN 3/4" C | | |
| SSI-13 | LIBRARY 5 | 0.34A | 208 | 1 | 15A | | (2) #12, (1) #12 GND IN 3/4" C | | |
| SSI-14 | LIBRARY 5A | 0.34A | 208 | 1 | 15A | | (2) #12, (1) #12 GND IN 3/4" C | | |
| SSI-15 | LIBRARY 5A | 0.34A | 208 | 1 | 15A | | (2) #12, (1) #12 GND IN 3/4" C | | |
| SSI-17 | MAKERSPACE 3 | 0.34A | 208 | 1 | 15A | 20A/2P | (2) #12, (1) #12 GND IN 3/4" C | PP5/1,3 | 1 |
| SSI-18 | MAKERSPACE 3 | 0.34A | 208 | 1 | 15A | | (2) #12, (1) #12 GND IN 3/4" C | | |
| SSI-19 | 1ST GRADE 1 | 0.34A | 208 | 1 | 15A | | (2) #12, (1) #12 GND IN 3/4" C | | |
| SSI-20 | 1ST GRADE 1 | 0.34A | 208 | 1 | 15A | | (2) #12, (1) #12 GND IN 3/4" C | | |
| SSI-21 | KINDERGARTEN 104 | 0.34A | 208 | 1 | 15A | | (2) #12, (1) #12 GND IN 3/4" C | | |
| SSI-22 | KINDERGARTEN 104 | 0.34A | 208 | 1 | 15A | 20A/2P | (2) #12, (1) #12 GND IN 3/4" C | PP5/4,6 | 1 |
| SSI-23 | OT/PT 105 | 0.34A | 208 | 1 | 15A | | (2) #12, (1) #12 GND IN 3/4" C | | |
| SSI-24 | OT/PT 105 | 0.34A | 208 | 1 | 15A | | (2) #12, (1) #12 GND IN 3/4" C | | |
| SSI-25 | SUPPORT M3 | 0.88A | 208 | 1 | 15A | | (2) #12, (1) #12 GND IN 3/4" C | | |
| SSI-26 | KINDERGARTEN 103 | 0.34A | 208 | 1 | 15A | | (2) #12, (1) #12 GND IN 3/4" C | | |
| SSI-27 | KINDERGARTEN 103 | 0.34A | 208 | 1 | 15A | 20A2P | (2) #12, (1) #12 GND IN 3/4" C | PP5/9,11 | 1 |
| SSI-28 | KINDERGARTEN 102 | 0.34A | 208 | 1 | 15A | | (2) #12, (1) #12 GND IN 3/4" C | | |
| SSI-29 | KINDERGARTEN 102 | 0.34A | 208 | 1 | 15A | | (2) #12, (1) #12 GND IN 3/4" C | | |
| SSI-30 | KINDERGARTEN 101 | 0.34A | 208 | 1 | 15A | | (2) #12, (1) #12 GND IN 3/4" C | | |
| SSI-31 | KINDERGARTEN 101 | 0.34A | 208 | 1 | 15A | | (2) #12, (1) #12 GND IN 3/4" C | | |

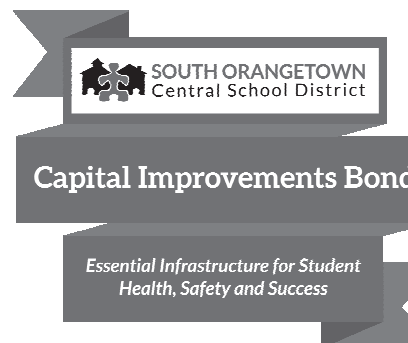
1. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR THE MOUNTING, AND LINE/LOAD SIDE CONNECTIONS OF DISCONNECT AND/OR STARTER DEVICE ASSOCIATED WITH UNIT. MEANS OF DISCONNECT AND/OR STARTER ASSOCIATED WITH UNIT PROVIDE BY MECHANICAL CONTRACTOR. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ALL FINAL CONNECTIONS TO EQUIPMENT.

2. REMOVE 1-POLE CIRCUIT BREAKERS IN SPACES INDICATED. TURN BREAKERS OVER TO OWNER.

| 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 | 6" RECESSED LED DOWNLIGHT | CURRENT LIGHTING | LTR-6RD-H-ML-20L-DM01-LTR-6RD-T-ML-35K-9-MD-SS-WT-FMR6-R | UNV | 22 | 3500K | |
| C | 2X2 RECESSED LED FLAT PANEL | CURRENT LIGHTING | CFP22-40/33/2835 | UNV | 40/28 | 3500K | 1 |
| C/EM | 2X2 RECESSED LED FLAT PANEL EMERGENCY BATTERY BACKUP | CURRENT LIGHTING | CFP22-40/33/2835-ELL14 | UNV | 40/28 | 3500K | 1,3,4 |
| D | 2X4 RECESSED LED TROFFER | CURRENT LIGHTING | LCAT24-35-LW-G-ED1-U | UNV | 36 | 3500K | |
| D/EM | 2X4 RECESSED LED TROFFER EMERGENCY BATTERY BACKUP | CURRENT LIGHTING | LCAT24-35-LW-G-ED1-U-ELL14 | UNV | 36 | 3500K | 3,4 |
| E | 1X4 RECESSED LED TROFFER | CURRENT LIGHTING | LCAT14-9-35-LW-G-ED1-U | UNV | 36 | 3500K | 5 |
| E/EM | 1X4 RECESSED LED TROFFER WITH EMERGENCY BATTERY BACKUP | CURRENT LIGHTING | LCAT14-9-35-LW-G-ED1-U-ELL14 | UNV | 36 | 3500K | 3,4,5 |
| F | 1X4 SURFACE MOUNTED LED EXTERIOR | CURRENT LIGHTING | 91L-P-D-2-STD-4-04-SOF-C5-40K-D100-D01-1C-UNV-H72 | UNV | 48 | 4000K | 2 |
| X | LED EXIT SIGN | CURRENT LIGHTING | CEWSRE | UNV | 3 | | 3,4 |
| EM | LED EMERGENCY FIXTURE | CURRENT LIGHTING | CU2SO | UNV | 4 | | 3,4 |
| REMARKS: | 1. FIXTURE TO BE SET AT 40 (4000 LUMENS) IN FIELD BEFORE INSTALLATION. IN THE SINGLE GANG-TOILET ROOMS WITHIN THE CLASSROOMS, FIXTURES TO BE SET AT 28 (2800 LUMENS). 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 EMERGENCY 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. PROVIDE FIXTURES WITH GYP CEILING KIT FK14. | | | | | | |



CPL | Architecture Engineering Planning
50 Front Street Suite 202,
Newburgh, NY 12550
CPLteam.com



PROJECT INFORMATION

Project Number
14457.20

Client Name

SOUTH ORANGETOWN CENTRAL SCHOOL DISTRICT

Project Name

PHASE 1: 2022 BOND

District Office Address
160 VAN WYCK RD. BLAUVELT, NY 10913

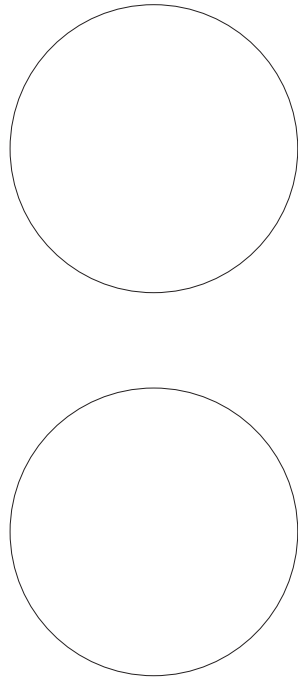
SOUTH ORANGETOWN CSD

- ☒ WILLIAM O. SCHAFER SED#35-03-01-06-0-010-2019
☐ COTTAGE LANE ELEMENTARY SED#35-03-01-06-0-010-002
☐ TAPPAN ZEE HIGH SCHOOL SED#35-03-01-06-0-004-002
☐ WILLIAM O. SCHAFER SAL SED#35-03-01-06-0-010-000
☐ COTTAGE LANE SAL SED#35-03-01-06-0-010-003
☐ COTTAGE LANE LIBRARY SAL SED#35-03-01-06-8-003-002
☐ WOS OUTDOOR CLASSROOM SED#35-03-01-06-7-035-001
☐ BONES OUTDOOR CLASSROOM SED#35-03-01-06-7-036-001
☐ CLE OUTDOOR CLASSROOM SED#35-03-01-06-7-034-001
☐ TRHS OUTDOOR CLASSROOM SED#35-03-01-06-7-035-001

PROJECT ISSUE & REVISION SCHEDULE

| No. | Date | Description |
|-----|------------|-----------------|
| 1 | 11/17/2023 | BID ADDENDUM #4 |

PROFESSIONAL STAMPS



NEW YORK STATE REGULATION STATEMENT
I, A LICENSED PROFESSIONAL ENGINEER, HAVE REVIEWED THE PROJECT AND THE COMMISSENER'S REGULATIONS FOR ANY PROJECT UNDER ACTIVE UNDER THE REGULATION OF A LICENSED ARCHITECT, ENGINEER OR LAND SURVEYOR. TO ACT AS AN ENGINEER IN ANY WAY, I AM NOT BEARING THE SEAL OF AN ARCHITECT, ENGINEER OR LAND SURVEYOR. I AM NOT BEARING THE SEAL OF AN ARCHITECT, ENGINEER OR LAND SURVEYOR. I AM NOT BEARING THE SEAL OF AN ARCHITECT, ENGINEER OR LAND SURVEYOR. I AM NOT BEARING THE SEAL OF AN ARCHITECT, ENGINEER OR LAND SURVEYOR.

SHEET INFORMATION

Issued
10/18/2023

Scale
12" = 1'-0"

Project Status

BID DOCUMENTS

Drawn By

MAY

Checked By

JBT

Drawing Title

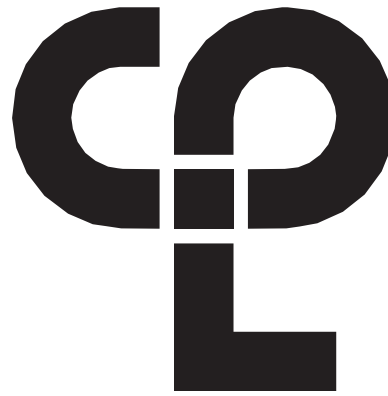
ELECTRICAL SCHEDULES

Drawing Number

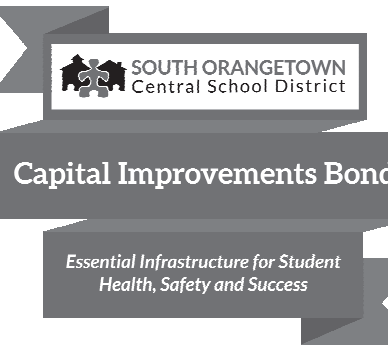
WOS
E900

| EQUIPMENT | LOCATION | HP/FLA | VOLTS | PHASE | AMPS | BREAKER SIZE | WIRE/CONDUIT SIZE | PANEL/CIRCUIT | REMARKS: |
|---|----------|---------|-------|-------|------|--------------|--------------------------------|---------------|----------|
| EF-1 | ROOF | 1-1/2HP | 208 | 1 | 11A | 20A/2P | (2) #12, (1) #12 GND IN 3/4" C | PP4/17,19 | 1,2 |
| SSO-1 | ROOF | 120A | 208 | 3 | 150A | 150A/3P | (3) #2/0, (1) #6GND IN 2" C | PP4/46,48,50 | 1 |
| SSO-2 | ROOF | 75A | 208 | 3 | 108A | 100A/3P | (3) #2, (1) #8 IN 1-1/4" C | PP3/29,31,33 | 1 |
| HP-04 | ROOF | 38A | 208 | 3 | 40A | 50A/3P | (3) #6, (1) #10 GND IN 1" C | PP4/25,27,29 | 1 |
| RBU-1 | CORRIDOR | 339W | 208 | 1 | 1A | 20A/2P | (2) #12, (1) #12 GND IN 3/4" C | PP4/9,11 | 1 |
| RBU-2 | CORRIDOR | 339W | 208 | 1 | 1A | 20A/2P | (2) #12, (1) #12 GND IN 3/4" C | PP4/9,11 | 1 |
| RBU-4 | NURSE 16 | 226W | 208 | 1 | 1A | 20A/2P | (2) #12, (1) #12 GND IN 3/4" C | PP4/5,7 | 1 |
| RBU-6 | CORRIDOR | 339W | 208 | 1 | 1A | 20A/2P | (2) #12, (1) #12 GND IN 3/4" C | PP5/5,7 | 1 |
| RBU-7 | CORRIDOR | 226W | 208 | 1 | 1A | 20A/2P | (2) #12, (1) #12 GND IN 3/4" C | PP5/5,7 | 1 |
| RBU-8 | CORRIDOR | 226W | 208 | 1 | 1A | 20A/2P | (2) #12, (1) #12 GND IN 3/4" C | PP5/5,7 | 1 |
| RBU-9 | CORRIDOR | 339W | 208 | 1 | 1A | 20A/2P | (2) #12, (1) #12 GND IN 3/4" C | PP2/28,30 | 1 |
| RBU-10 | CORRIDOR | 339W | 208 | 1 | 1A | 20A/2P | (2) #12, (1) #12 GND IN 3/4" C | PP2/28,30 | 1 |
| RBU-11 | CORRIDOR | 339W | 208 | 1 | 1A | 20A/2P | (2) #12, (1) #12 GND IN 3/4" C | PP2/28,30 | 1 |
| RBU-12 | ROOF | 339W | 208 | 1 | 1A | 20A/2P | (2) #12, (1) #12 GND IN 3/4" C | PP2/28,30 | 1 |
| 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. PROVIDE FIRE ALARM RELAY AT EXHAUST FAN AND TIE INTO EXISTING FIRE ALARM SYSTEM | | | | | | | | | |

| EQUIPMENT | LOCATION | HP/FLA | VOLTS | PHASE | AMPS | BREAKER SIZE | WIRE/CONDUIT SIZE | PANEL/CIRCUIT | REMARKS: |
|---|-----------------|--------|-------|-------|------|--------------|--------------------------------|---------------|----------|
| SSI-32 | SPEC. ED. 100 | 0.34A | 208 | 1 | 15A | 20A/2P | (2) #12, (1) #12 GND IN 3/4" C | PP5/8,10 | 1 |
| SSI-33 | SPEC. ED. 100 | 0.34A | 208 | 1 | 15A | 20A/2P | (2) #12, (1) #12 GND IN 3/4" C | PP5/8,10 | 1 |
| SSI-34 | 1ST GRADE 2 | 0.34A | 208 | 1 | 15A | 20A/2P | (2) #12, (1) #12 GND IN 3/4" C | PP5/8,10 | 1 |
| SSI-35 | 1ST GRADE 2 | 0.34A | 208 | 1 | 15A | 20A/2P | (2) #12, (1) #12 GND IN 3/4" C | PP5/8,10 | 1 |
| SSI-36 | 1ST GRADE 4 | 0.34A | 208 | 1 | 15A | 20A/2P | (2) #12, (1) #12 GND IN 3/4" C | PP5/8,10 | 1 |
| SSI-37 | 1ST GRADE 4 | 0.34A | 208 | 1 | 15A | 20A/2P | (2) #12, (1) #12 GND IN 3/4" C | PP5/8,10 | 1 |
| SSI-38 | 1ST GRADE 6 | 0.34A | 208 | 1 | 15A | 20A/2P | (2) #12, (1) #12 GND IN 3/4" C | PP5/8,10 | 1 |
| SSI-39 | 1ST GRADE 6 | 0.34A | 208 | 1 | 15A | 20A/2P | (2) #12, (1) #12 GND IN 3/4" C | PP5/8,10 | 1 |
| SSI-40 | MUSIC 62 | 0.34A | 208 | 1 | 15A | 20A/2P | (2) #12, (1) #12 GND IN 3/4" C | PP5/8,10 | 1 |
| SSI-41 | MUSIC 62 | 0.34A | 208 | 1 | 15A | 20A/2P | (2) #12, (1) #12 GND IN 3/4" C | PP5/8,10 | 1 |
| SSI-42 | 2ND GRADE 64 | 0.34A | 208 | 1 | 15A | 20A/2P | (2) #12, (1) #12 GND IN 3/4" C | PP5/8,10 | 1 |
| SSI-43 | 2ND GRADE 64 | 0.34A | 208 | 1 | 15A | 20A/2P | (2) #12, (1) #12 GND IN 3/4" C | PP5/8,10 | 1 |
| SSI-44 | 2ND GRADE 66 | 0.34A | 208 | 1 | 15A | 20A/2P | (2) #12, (1) #12 GND IN 3/4" C | PP5/8,10 | 1 |
| SSI-45 | 2ND GRADE 66 | 0.34A | 208 | 1 | 15A | 20A/2P | (2) #12, (1) #12 GND IN 3/4" C | PP5/8,10 | 1 |
| SSI-46 | 2ND GRADE 68 | 0.34A | 208 | 1 | 15A | 20A/2P | (2) #12, (1) #12 GND IN 3/4" C | PP5/8,10 | 1 |
| SSI-47 | 2ND GRADE 68 | 0.34A | 208 | 1 | 15A | 20A/2P | (2) #12, (1) #12 GND IN 3/4" C | PP5/8,10 | 1 |
| SSI-48 | 1ST GRADE 70 | 0.34A | 208 | 1 | 15A | 20A/2P | (2) #12, (1) #12 GND IN 3/4" C | PP5/8,10 | 1 |
| SSI-49 | 1ST GRADE 70 | 0.34A | 208 | 1 | 15A | 20A/2P | (2) #12, (1) #12 GND IN 3/4" C | PP5/8,10 | 1 |
| SSI-50 | 2ND GRADE 72 | 0.34A | 208 | 1 | 15A | 20A/2P | (2) #12, (1) #12 GND IN 3/4" C | PP5/8,10 | 1 |
| SSI-51 | 2ND GRADE 72 | 0.34A | 208 | 1 | 15A | 20A/2P | (2) #12, (1) #12 GND IN 3/4" C | PP5/8,10 | 1 |
| SSI-52 | ART 74 | 0.34A | 208 | 1 | 15A | 20A/2P | (2) #12, (1) #12 GND IN 3/4" C | PP5/8,10 | 1 |
| SSI-53 | ART 74 | 0.34A | 208 | 1 | 15A | 20A/2P | (2) #12, (1) #12 GND IN 3/4" C | PP5/8,10 | 1 |
| SSI-54 | 1ST GRADE 71 | 0.34A | 208 | 1 | 15A | 20A/2P | (2) #12, (1) #12 GND IN 3/4" C | PP5/8,10 | 1 |
| SSI-55 | 1ST GRADE 71 | 0.34A | 208 | 1 | 15A | 20A/2P | (2) #12, (1) #12 GND IN 3/4" C | PP5/8,10 | 1 |
| SSI-56 | 1ST GRADE 69 | 0.34A | 208 | 1 | 15A | 20A/2P | (2) #12, (1) #12 GND IN 3/4" C | PP5/8,10 | 1 |
| SSI-57 | 1ST GRADE 69 | 0.34A | 208 | 1 | 15A | 20A/2P | (2) #12, (1) #12 GND IN 3/4" C | PP5/8,10 | 1 |
| SSI-58 | 2ND GRADE 67 | 0.34A | 208 | 1 | 15A | 20A/2P | (2) #12, (1) #12 GND IN 3/4" C | PP5/8,10 | 1 |
| SSI-59 | 2ND GRADE 67 | 0.34A | 208 | 1 | 15A | 20A/2P | (2) #12, (1) #12 GND IN 3/4" C | PP5/8,10 | 1 |
| SSI-60 | 2ND GRADE 69 | 0.34A | 208 | 1 | 15A | 20A/2P | (2) #12, (1) #12 GND IN 3/4" C | PP5/8,10 | 1 |
| SSI-61 | 2ND GRADE 65 | 0.34A | 208 | 1 | 15A | 20A/2P | (2) #12, (1) #12 GND IN 3/4" C | PP5/8,10 | 1 |
| SSI-62 | 2ND GRADE 63 | 0.34A | 208 | 1 | 15A | 20A/2P | (2) #12, (1) #12 GND IN 3/4" C | PP5/8,10 | 1 |
| SSI-63 | 2ND GRADE 63 | 0.34A | 208 | 1 | 15A | 20A/2P | (2) #12, (1) #12 GND IN 3/4" C | PP5/8,10 | 1 |
| SSI-64 | 1ST GRADE 61 | 0.34A | 208 | 1 | 15A | 20A/2P | (2) #12, (1) #12 GND IN 3/4" C | PP5/8,10 | 1 |
| SSI-65 | 1ST GRADE 61 | 0.34A | 208 | 1 | 15A | 20A/2P | (2) #12, (1) #12 GND IN 3/4" C | PP5/8,10 | 1 |
| SSI-66 | 2ND GRADE 59 | 0.34A | 208 | 1 | 15A | 20A/2P | (2) #12, (1) #12 GND IN 3/4" C | PP5/8,10 | 1 |
| SSI-67 | 2ND GRADE 59 | 0.34A | 208 | 1 | 15A | 20A/2P | (2) #12, (1) #12 GND IN 3/4" C | PP5/8,10 | 1 |
| SSI-68 | 2ND GRADE 57 | 0.34A | 208 | 1 | 15A | 20A/2P | (2) #12, (1) #12 GND IN 3/4" C | PP5/8,10 | 1 |
| SSI-69 | 2ND GRADE 57 | 0.34A | 208 | 1 | 15A | 20A/2P | (2) #12, (1) #12 GND IN 3/4" C | PP5/8,10 | 1 |
| SSI-70 | STAFF LOUNGE 51 | 0.34A | 208 | 1 | 15A | 20A/2P | (2) #12, (1) #12 GND IN 3/4" C | PP5/8,10 | 1 |
| SSI-71 | ENL 44 | 0.34A | 208 | 1 | 15A | 20A/2P | (2) #12, (1) #12 GND IN 3/4" C | PP5/8,10 | 1 |
| SSI-72 | OFFICE 42 | 0.34A | 208 | 1 | 15A | 20A/2P | (2) #12, (1) #12 GND IN 3/4" C | PP5/8,10 | 1 |
| SSI-73 | P.E. OFFICE 80C | 0.34A | 208 | 1 | 15A | 20A/2P | (2) #12, (1) #12 GND IN 3/4" C | PP5/8,10 | 1 |
| SSI-74 | CORRIDOR | 0.34A | 208 | 1 | 15A | 20A/2P | (2) #12, (1) #12 GND IN 3/4" C | PP5/8,10 | 1 |
| SSI-75 | COACH OFFICE 39 | 0.34A | 208 | 1 | 15A | 20A/2P | (2) #12, (1) #12 GND IN 3/4" C | PP5/8,10 | 1 |
| SSI-76 | AID'S OFFICE 38 | 0.34A | 208 | 1 | 15A | 20A/2P | (2) #12, (1) #12 GND IN 3/4" C | PP5/8,10 | 1 |
| SSI-77 | NURSE 16 | 0.34A | 208 | 1 | 15A | 20A/2P | (2) #12, (1) #12 GND IN 3/4" C | PP5/8,10 | 1 |
| SSI-78 | TEST/ISO 16B | 0.34A | 208 | 1 | 15A | 20A/2P | (2) #12, (1) #12 GND IN 3/4" C | PP5/8,10 | 1 |
| SSI-79 | ENL 37A | 0.34A | 208 | 1 | 15A | 20A/2P | (2) #12, (1) #12 GND IN 3/4" C | PP5/8,10 | 1 |
| SSI-80 | ENL 37A | 0.34A | 208 | 1 | 15A | 20A/2P | (2) #12, (1) #12 GND IN 3/4" C | PP5/8,10 | 1 |
| SSI-81 | ENL 37B | 0.34A | 208 | 1 | 15A | 20A/2P | (2) #12, (1) #12 GND IN 3/4" C | PP5/8,10 | 1 |
| SSI-82 | ENL 37B | 0.34A | 208 | 1 | 15A | 20A/2P | (2) #12, (1) #12 GND IN 3/4" C | PP5/8,10 | 1 |
| SSI-83 | CORRIDOR | 0.34A | 208 | 1 | 15A | 20A/2P | (2) #12, (1) #12 GND IN 3/4" C | PP5/8,10 | 1 |
| SSI-84 | OFFICE 20 | 1.39A | 208 | 1 | 15A | 20A/2P | (2) #12, (1) #12 GND IN 3/4" C | PP5/8,10 | 1 |
| SSI-85 | KINDERGARTEN 24 | 0.34A | 208 | 1 | 15A | 20A/2P | (2) #12, (1) #12 GND IN 3/4" C | PP5/8,10 | 1 |
| SSI-86 | KINDERGARTEN 24 | 0.34A | 208 | 1 | 15A | 20A/2P | (2) #12, (1) #12 GND IN 3/4" C | PP5/8,10 | 1 |
| SSI-87 | KINDERGARTEN 26 | 0.34A | 208 | 1 | 15A | 20A/2P | (2) #12, (1) #12 GND IN 3/4" C | PP5/8,10 | 1 |
| SSI-88 | KINDERGARTEN 26 | 0.34A | 208 | 1 | 15A | 20A/2P | (2) #12, (1) #12 GND IN 3/4" C | PP5/8,10 | 1 |
| SSI-89 | KINDERGARTEN 30 | 0.34A | 208 | 1 | 15A | 20A/2P | (2) #12, (1) #12 GND IN 3/4" C | PP5/8,10 | 1 |
| SSI-90 | KINDERGARTEN 30 | 0.34A | 208 | 1 | 15A | 20A/2P | (2) #12, (1) #12 GND IN 3/4" C | PP5/8,10 | 1 |
| 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. REMOVE EXISTING 1-POLE CIRCUIT BREAKERS IN SPACES INDICATED. PLACE 1-POLE CIRCUIT BREAKERS IN OPEN SPACES WITHIN PANEL. | | | | | | | | | |



CPL | Architecture Engineering Planning
50 Front Street Suite 202,
Newburgh, NY 12550
CPLteam.com



PROJECT INFORMATION

Project Number
14457.20

Client Name

**SOUTH ORANGETOWN CENTRAL
SCHOOL DISTRICT**

Project Name

PHASE 1: 2022 BOND

District Office Address

160 VAN WYCK RD. BLAUVELT, NY 10913

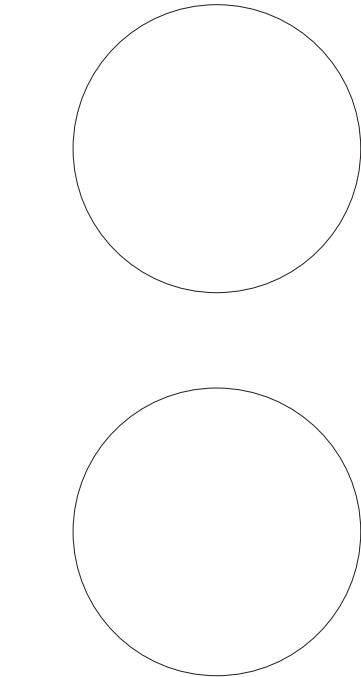
SOUTH ORANGETOWN CSD

- ☒ WILLIAM O. SCHAFER SED# 35-03-01-06-0-010-020
☐ COTTAGE LAKE ELEMENTARY SED# 35-03-01-06-0-010-022
☐ TAPPAN ZEE HIGH SCHOOL SED# 35-03-01-06-0-006-002
☐ WILLIAM O. SCHAFER SAL SED# 35-03-01-06-0-010-020
☐ COTTAGE LAKE SAL SED# 35-03-01-06-0-010-023
☐ COTTAGE LAKE LIBRARY SAL SED# 35-03-01-06-8-023-002
☐ WOS OUTDOOR CLASSROOM SED# 35-03-01-06-7-035-001
☐ SCONE OUTDOOR CLASSROOM SED# 35-03-01-06-7-036-001
☐ CLE OUTDOOR CLASSROOM SED# 35-03-01-06-7-034-001
☐ THS OUTDOOR CLASSROOM SED# 35-03-01-06-7-035-001

PROJECT ISSUE & REVISION SCHEDULE

| No. | Date | Description |
|-----|------------|-----------------|
| 1 | 11/17/2023 | BID ADDENDUM #4 |

PROFESSIONAL STAMPS



NEW YORK STATE REGULATION STATEMENT

IF IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND THE COMMISSIONER'S REGULATION FOR ANY PERSON, UNDER ACTUAL OR CONSTRUCTIVE CONTROL OF A LICENSED ARCHITECT, ENGINEER OR LAND SURVEYOR, TO ACT AS AN ENGINEER IN ANY WAY, IF ANY, BEARING THE SEAL OF AN ARCHITECT, ENGINEER OR LAND SURVEYOR, THE ARCHITECT, ENGINEER OR LAND SURVEYOR SHALL BE CONSIDERED TO BE VIOLATING THE ABOVE BY THE SIGNATURE OF THE ARCHITECT, ENGINEER OR LAND SURVEYOR, AND A SPECIFIC DESCRIPTION OF THE VIOLATION.

SHEET INFORMATION

Issued
10/18/2023
Project Status
BID DOCUMENTS
Drawn By
MAY
Drawing Title
ELECTRICAL SCHEDULES

Scale
12" = 1'-0"
Checked By
JBT

Drawing Number

WOS
E901

PANEL: PP5

LOCATION: SUPPORT M2

VOLTAGE:

FED FROM:

MOUNTING: Surface

A.I.C. RATING:

MCB RATING: Type 1

MAIN BUS RATING: 800 A

| ... | BRKR | LOAD DESCRIPTION | A (VA) | B (VA) | C (VA) | LOAD DESCRIPTION | BRKR | ... |
|-----|------|-----------------------|--------|--------|--------|-----------------------------|------|-----|
| 1 | 20 | SSI-17,18,19,20 | 140 | -- | | SPACE | 1 | -- |
| 3 | | | | 140 | 175 | | | |
| 5 | 20 | RBU-6,7,8 | 600 | 280 | | SSI-21,22,23,24,25 | 2 | 20 |
| 7 | | | | | | | | |
| 9 | 20 | SSI-26,27,28,29,30,31 | | 210 | 280 | SSI-32,33,34,35,36,37,38,39 | 2 | 20 |
| 11 | | | | | | | | |
| 13 | | | 7181 | 6004 | | ACC-10 | 3 | 50 |
| 15 | 70 | 3 ACC-11 | | 7181 | 6004 | | | |
| 17 | | | | | 7181 | 7181 | | |
| 19 | | | 7205 | 7181 | | ACC-12 | 3 | 70 |
| 21 | 60 | 3 ACC-9 | | 7205 | 7181 | | | |
| 23 | | | | | 7205 | 8526 | | |
| 25 | | | 8526 | 8526 | | ACC-13 | 3 | 90 |
| 27 | 90 | 3 ACC-14 | | | 8526 | 11889 | | |
| 29 | | | 6485 | 11889 | | ERU-6 | 3 | 125 |
| 31 | 70 | 3 ERU-7 | | 6485 | 11889 | | | |
| 33 | | | | | 6485 | 6485 | | |
| 35 | | | -- | 6485 | -- | ERU-8 | 3 | 70 |
| 37 | -- | 1 SPACE | -- | -- | -- | SPACE | 1 | -- |
| 39 | -- | 1 SPACE | -- | -- | -- | SPACE | 1 | -- |
| 41 | -- | 1 SPACE | -- | -- | -- | SPACE | 1 | -- |
| 43 | -- | 1 SPACE | -- | -- | -- | SPACE | 1 | -- |
| 45 | -- | 1 SPACE | -- | -- | -- | SPACE | 1 | -- |
| 47 | -- | 1 SPACE | -- | -- | -- | SPACE | 1 | -- |
| 49 | -- | 1 SPACE | -- | -- | -- | SPACE | 1 | -- |
| 51 | -- | 1 SPACE | -- | -- | -- | SPACE | 1 | -- |
| 53 | -- | 1 SPACE | -- | -- | -- | SPACE | 1 | -- |

| TOTAL LOAD | | | |
|---------------------|--------------|---------------|-----------|
| | 70502 VA | 70287 VA | 70467 VA |
| Load Classification | | | |
| Load | Connected VA | Demand Factor | Demand VA |
| Recept. | | | |
| Lighting | | | |
| HVAC | | | |
| Motors | | | |
| Refrig. | | | |
| Kitchen | | | |
| Misc. | 211256 VA | 75.00% | 158442 VA |

| Panel Totals | | | |
|----------------|-----------|--|--|
| Connected Load | 211256 VA | | |
| Estimated Load | 158442 VA | | |
| Connected Amps | 586 A | | |
| Demand Amps | 440 A | | |

PANEL: PP3

LOCATION: STORAGE 58

VOLTAGE:

FED FROM:

MOUNTING: Surface

A.I.C. RATING:

MCB RATING: Type 1

MAIN BUS RATING: 800 A

| ... | BRKR | LOAD DESCRIPTION | A | B | C | LOAD DESCRIPTION | BRKR | ... |
|-----|------|------------------|-------|-------|-------|------------------|-------|-----|
| 1 | | | 11649 | 9367 | | | | |
| 3 | 125 | 3 ERU-9 | | 11649 | 9367 | ERU-10 | 3 | 100 |
| 5 | | | 9367 | 6004 | | | | |
| 7 | | | | | 11649 | 9367 | | |
| 9 | 100 | 3 ERU-11 | | 9367 | 6004 | ACC-18 | 3 | 50 |
| 11 | | | | | 9367 | 6004 | | |
| 13 | | | 7205 | 6004 | | | | |
| 15 | 60 | 3 ACC-19 | | 7205 | 6004 | ACC-20 | 3 | 50 |
| 17 | | | | | 7205 | 6004 | | |
| 19 | | | 7205 | 6004 | | | | |
| 21 | 60 | 3 ACC-21 | | 7205 | 6004 | ACC-22 | 3 | 50 |
| 23 | | | | | 7205 | 6004 | | |
| 25 | | | 7205 | 6485 | | | | |
| 27 | 60 | 3 ACC-23 | | 7205 | 6485 | ERU-12 | 3 | 70 |
| 29 | | | | | 7205 | 6485 | | |
| 31 | | | 14411 | 7181 | | | | |
| 33 | 150 | 3 ERU-13 | | 14411 | 7181 | ACC-15 | 3 | 70 |
| 35 | | | | | 14411 | 7181 | | |
| 37 | 70 | 3 ACC-16 | 7181 | 3578 | | | | |
| 39 | | | | 7181 | 3578 | ACC-17 | 3 | 40 |
| 41 | -- | 1 SPACE | -- | -- | 7181 | 3578 | SPACE | 1 |
| 43 | -- | 1 SPACE | -- | -- | -- | -- | SPACE | 1 |
| 45 | -- | 1 SPACE | -- | -- | -- | -- | SPACE | 1 |
| 47 | -- | 1 SPACE | -- | -- | -- | -- | SPACE | 1 |
| 49 | -- | 1 SPACE | -- | -- | -- | -- | SPACE | 1 |
| 51 | -- | 1 SPACE | -- | -- | -- | -- | SPACE | 1 |
| 53 | -- | 1 SPACE | -- | -- | -- | -- | SPACE | 1 |

| TOTAL LOAD | | | |
|---------------------|--------------|---------------|-----------|
| | 108846 VA | 108846 VA | 108846 VA |
| Load Classification | | | |
| Load | Connected VA | Demand Factor | Demand VA |
| Recept. | | | |
| Lighting | | | |
| HVAC | | | |
| Motors | | | |
| Refrig. | | | |
| Kitchen | | | |
| Misc. | 326539 VA | 75.00% | 244904 VA |

| Panel Totals | | | |
|----------------|-----------|--|--|
| Connected Load | 326539 VA | | |
| Estimated Load | 244904 VA | | |
| Connected Amps | 906 A | | |
| Demand Amps | 680 A | | |

PANEL: PP1

LOCATION: SERVER CL. 9

VOLTAGE:

FED FROM:

MOUNTING: Surface

A.I.C. RATING:

MCB RATING: Type 1

MAIN BUS RATING: 225 A

| ... | BRKR | LOAD DESCRIPTION | A (VA) | B (VA) | C (VA) | LOAD DESCRIPTION | BRKR | ... | |
|------------|------|-------------------------------|----------|----------|----------|------------------|--------------|-----|----|
| 1 | 20 | 1 RECEPTS: 32 | 1080 | 1080 | | RECEPTS: 21 | 1 | 20 | |
| 3 | 20 | 1 RECEPTS: 30 | | 1080 | 1080 | RECEPTS: 19 | 1 | 20 | |
| 5 | 20 | 1 RECEPTS: 26 | | | | RECEPTS: 17 | 1 | 20 | |
| 7 | 20 | 1 RECEPTS: 24 | 1080 | 1080 | 1080 | RECEPTS: 15 | 1 | 20 | |
| 9 | 20 | 1 RECEPTS: 9 | | 180 | 1080 | RECEPTS: 3 | 1 | 20 | |
| 11 | 20 | 1 RECEPTS: 6 | | | 1080 | 1080 | RECEPTS: 1 | 1 | 20 |
| 13 | 20 | 1 RECEPTS: 4 | 1080 | 1080 | | RECEPTS: 104 | 1 | 20 | |
| 15 | 20 | 1 RECEPTS: 2 | | 1080 | 1080 | RECEPTS: 105 | 1 | 20 | |
| 17 | 20 | 1 RECEPTS: 100 | | | 1080 | 540 | RECEPTS: 16 | 1 | 20 |
| 19 | 20 | 1 RECEPTS: 101 | 1080 | 540 | | RECEPTS: 16 | 1 | 20 | |
| 21 | 20 | 1 RECEPTS: 38, 39 | | 720 | 360 | RECEPTS: 38 | 1 | 20 | |
| 23 | 20 | 1 RECEPTS: 16B | | | 360 | 1080 | RECEPTS: 102 | 1 | 20 |
| 25 | 20 | 1 RECEPTS: 103 | 1080 | 360 | | RECEPTS: ROOF | 1 | 20 | |
| 27 | 20 | 1 RECEPTS: ROOF | | 360 | 5980 | | | | |
| 29 | | | | | 5980 | 5980 | ACC-7 | 3 | 60 |
| 31 | 60 | 3 ACC-8 | 5980 | 5980 | | | | | |
| 33 | | | | 5980 | 1040 | | | | |
| 35 | 20 | 2 ERU-4 | 1040 | 180 | 1040 | 1040 | ERU-3 | 2 | 20 |
| 37 | 20 | 1 FIRE/SMOKE DAMPER ACTUATORS | | 1000 | 900 | | RECEPTS: 16 | 1 | 20 |
| 39 | 20 | 1 SPARE | | | 0 | 900 | RECEPTS: 37A | 1 | 20 |
| 41 | 20 | 1 SPARE | | | | | RECEPTS: 37B | 1 | 20 |
| TOTAL LOAD | | | 22721 VA | 21921 VA | 22321 VA | | | | |

| TOTAL LOAD | | | |
|---------------------|--------------|---------------|-----------|
| | 22721 VA | 21921 VA | 22321 VA |
| Load Classification | | | |
| Load | Connected VA | Demand Factor | Demand VA |
| Recept. | 25920 VA | 69.29% | 17960 VA |
| Lighting | | | |
| HVAC | | | |
| Motors | | | |
| Refrig. | | | |
| Kitchen | | | |
| Misc. | 40042 VA | 75.00% | 30032 VA |

| Panel Totals | | | |
|----------------|----------|--|--|
| Connected Load | 66962 VA | | |
| Estimated Load | 48742 VA | | |
| Connected Amps | 186 A | | |
| Demand Amps | 135 A | | |

PROJECT INFORMATION

Project Number

14457.20

Client Name

SOUTH ORANGETOWN CENTRAL SCHOOL DISTRICT

Project Name

PHASE 1: 2022 BOND

District Office Address

160 VAN WYCK RD. BLAUVELT, NY 10913

SOUTH ORANGETOWN CSD

- ☒ WILLIAM O. SCHAFER SED# 50-03-01-06-0-010-2-019
- ☐ COTTAGE LANE ELEMENTARY SED# 50-03-01-06-0-010-022
- ☐ TAPPAN ZEE HIGH SCHOOL SED# 50-03-01-06-0-006-002
- ☐ WILLIAM O. SCHAFER SAL SED# 50-03-01-06-0-010-020
- ☐ COTTAGE LANE SAL SED# 50-03-01-06-0-010-023
- ☐ COTTAGE LANE LIBRARY SAL SED# 50-03-01-06-8-023-002
- ☐ WOS OUTDOOR CLASSROOM SED# 50-03-01-06-7-036-001
- ☐ JONES OUTDOOR CLASSROOM SED# 50-03-01-06-7-036-001
- ☐ CLE OUTDOOR CLASSROOM SED# 50-03-01-06-7-034-001
- ☐ 1265 OUTDOOR CLASSROOM SED# 50-03-01-06-7-035-001

PROJECT ISSUE & REVISION SCHEDULE

No. Date Description

1 11/17/2023 BID ADDENDUM #4

PROFESSIONAL STAMPS

NEW YORK STATE EDUCATION STATMENT

I, as a violator of the New York State Education Law and the Commissioner's Regulations for any reason, under actual or constructive notice of a closed architect, engineer or land surveyor, to act as such in any way, if any, by signing the title of an architect, engineer or land surveyor, the architect, engineer or land surveyor, and the date of such violation, and a specific description of the violation.

SHEET INFORMATION

Issued

10/18/2023

Project Status

BID DOCUMENTS

Drawn By

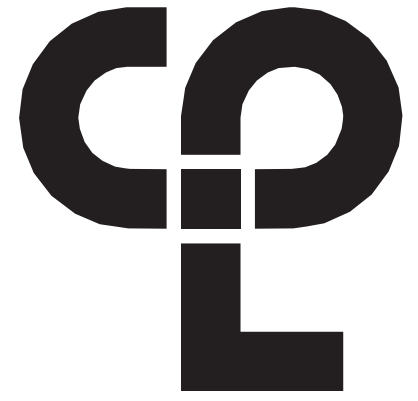
MAY

Drawing Title

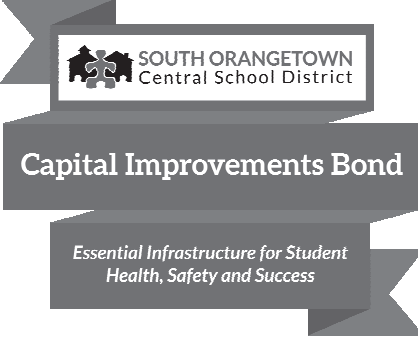
ELECTRICAL SCHEDULES

Drawing Number

WOS
E902



CPL | Architecture Engineering Planning
50 Front Street Suite 202,
Newburgh, NY 12550
CPLteam.com



PROJECT INFORMATION

Project Number

14457.20

Client Name

SOUTH ORANGETOWN CENTRAL SCHOOL DISTRICT

Project Name

PHASE 1: 2022 BOND

District Office Address

160 VAN WYCK RD. BLAUVELT, NY 10913

SOUTH ORANGETOWN CSD

- ☒ WILLIAM O. SCHAFER SED# 50-03-01-06-0-010-2-019
- ☐ COTTAGE LANE ELEMENTARY SED# 50-03-01-06-0-010-022
- ☐ TAPPAN ZEE HIGH SCHOOL SED# 50-03-01-06-0-006-002
- ☐ WILLIAM O. SCHAFER SAL SED# 50-03-01-06-0-010-020
- ☐ COTTAGE LANE SAL SED# 50-03-01-06-0-010-023
- ☐ COTTAGE LANE LIBRARY SAL SED# 50-03-01-06-8-023-002
- ☐ WOS OUTDOOR CLASSROOM SED# 50-03-01-06-7-036-001
- ☐ JONES OUTDOOR CLASSROOM SED# 50-03-01-06-7-036-001
- ☐ CLE OUTDOOR CLASSROOM SED# 50-03-01-06-7-034-001
- ☐ 1265 OUTDOOR CLASSROOM SED# 50-03-01-06-7-035-001

PROJECT ISSUE & REVISION SCHEDULE

No. Date Description

1 11/17/2023 BID ADDENDUM #4

PROFESSIONAL STAMPS

NEW YORK STATE EDUCATION STATMENT

I, as a violator of the New York State Education Law and the Commissioner's Regulations for any reason, under actual or constructive notice of a closed architect, engineer or land surveyor, to act as such in any way, if any, by signing the title of an architect, engineer or land surveyor, the architect, engineer or land surveyor, and the date of such violation, and a specific description of the violation.

SHEET INFORMATION

Issued

10/18/2023

Project Status

BID DOCUMENTS

Drawn By

MAY

Drawing Title

ELECTRICAL SCHEDULES

Drawing Number

WOS
E902