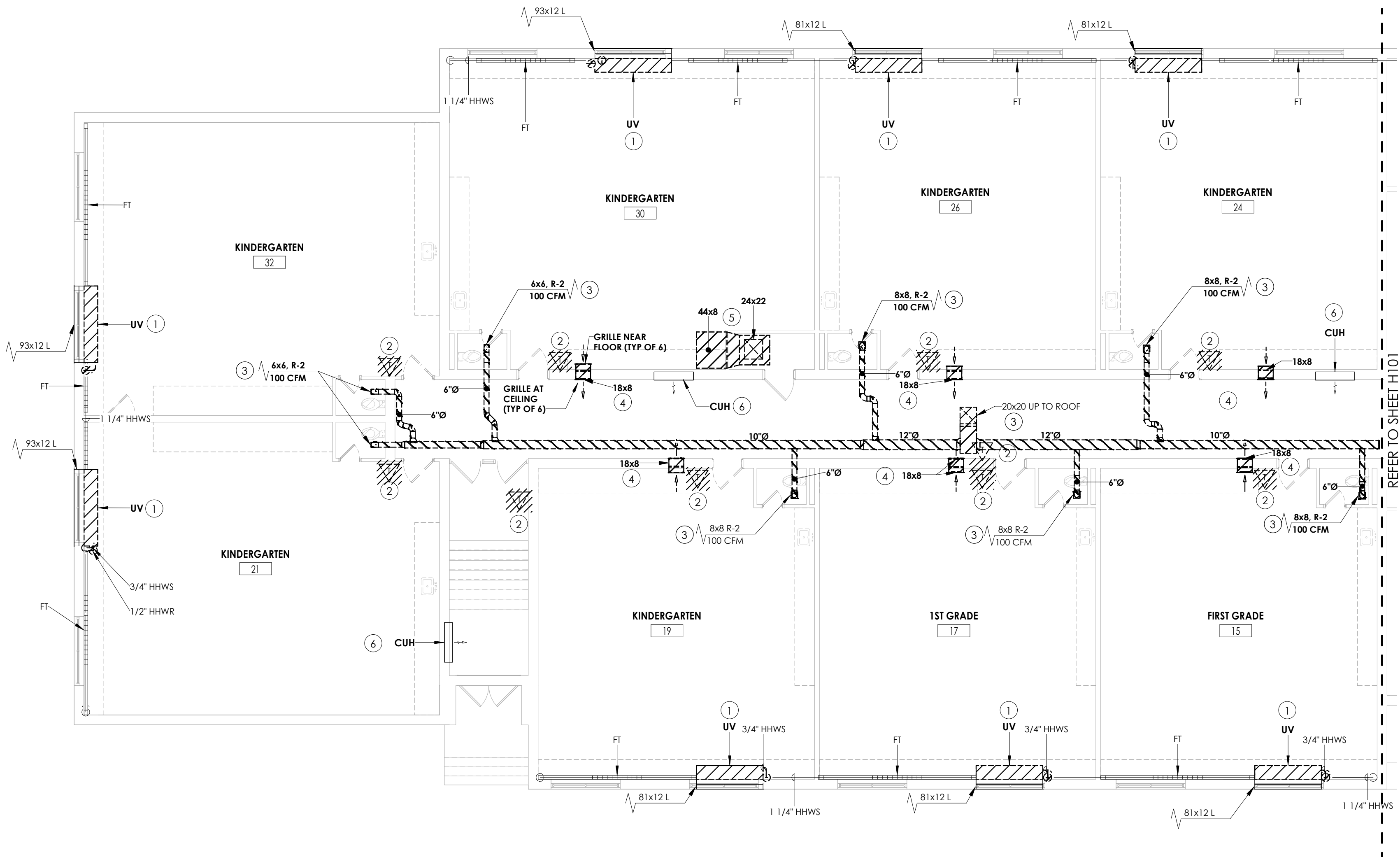
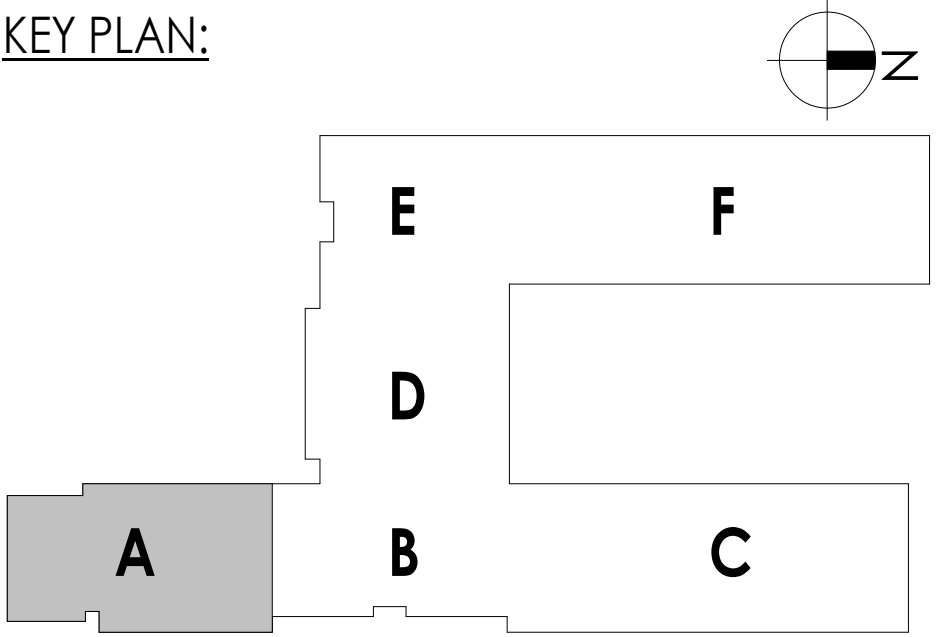




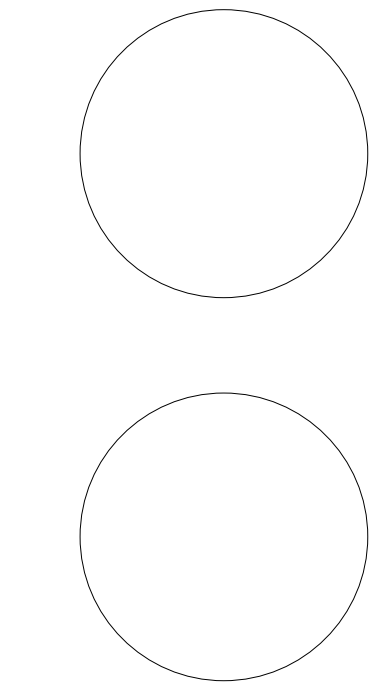
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H100
1/8" = 1'-0"

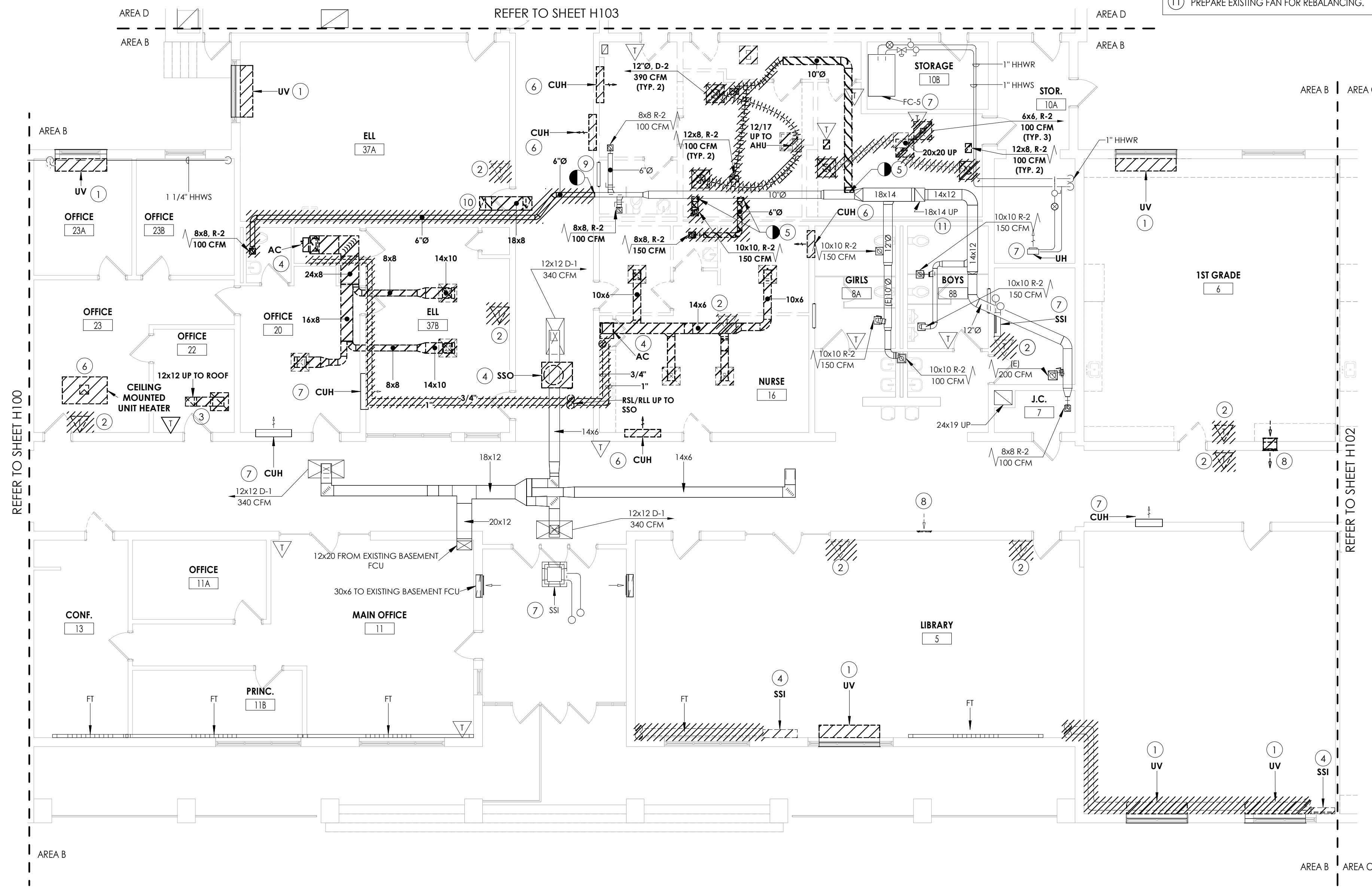
- KEY NOTES:**
- 1 REMOVE EXISTING UNIT VENTILATOR, LOUVER AND SLEEVE TO REMAIN. DISCONNECT PIPING AT FINITUBE. REFER TO ARCHITECTURAL PLANS. MAINTAIN PIPE LOOP. PREPARE FOR NEW WORK.
 - 2 REMOVE EXISTING ROOM TEMPERATURE SENSOR AND WIRING BACK TO CONTROL HEAD END. PREPARE FOR NEW WORK.
 - 3 REMOVE EXISTING EXHAUST DUCTWORK AND GRILLE TO THE EXHAUST FAN.
 - 4 REMOVE EXISTING LOW RELIEF AIR GRILLE IN ROOM, HIGH RELIEF AIR GRILLE IN COORIDOR AND DUCTWORK WITHIN WALL.
 - 5 REMOVE EXISTING DUCT UP TO ROOF.
 - 6 PREPARE EXISTING UNIT FOR NEW CONTROLS. **BID ALTERNATE MC-01.**

KEY PLAN:



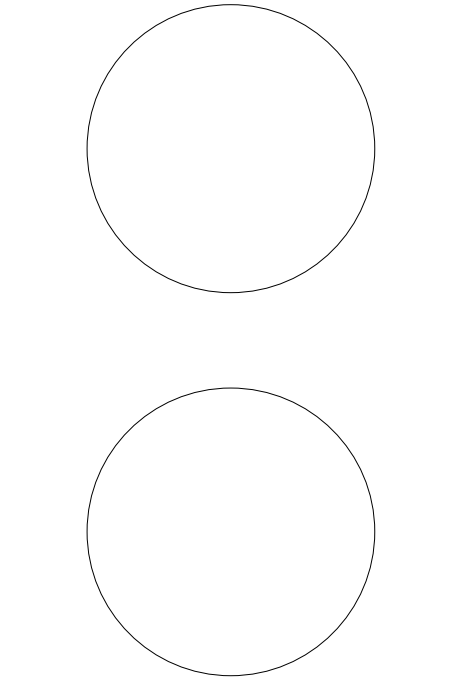
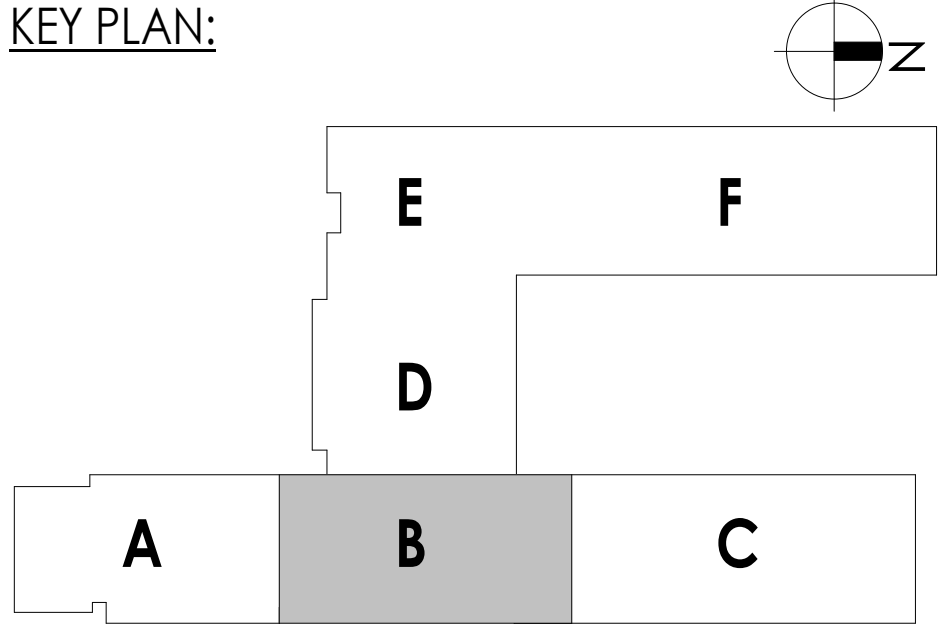
PROFESSIONAL STAMPS

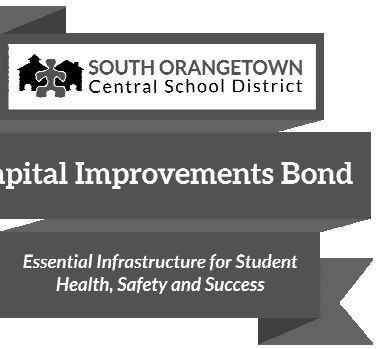
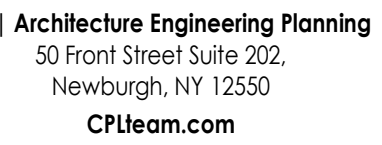




1
H101
FIRST FLOOR DEMOLITION PLAN- AREA B
1/8" = 1'-0"

- 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/RSI 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 PREPARE EXISTING FAN FOR REBALANCING.





Project Number
457.20
Parent Name
**YOUTH ORANGETOWN CENTRAL
SCHOOL DISTRICT**
Project Name
PHASE 1: 2022 BOND

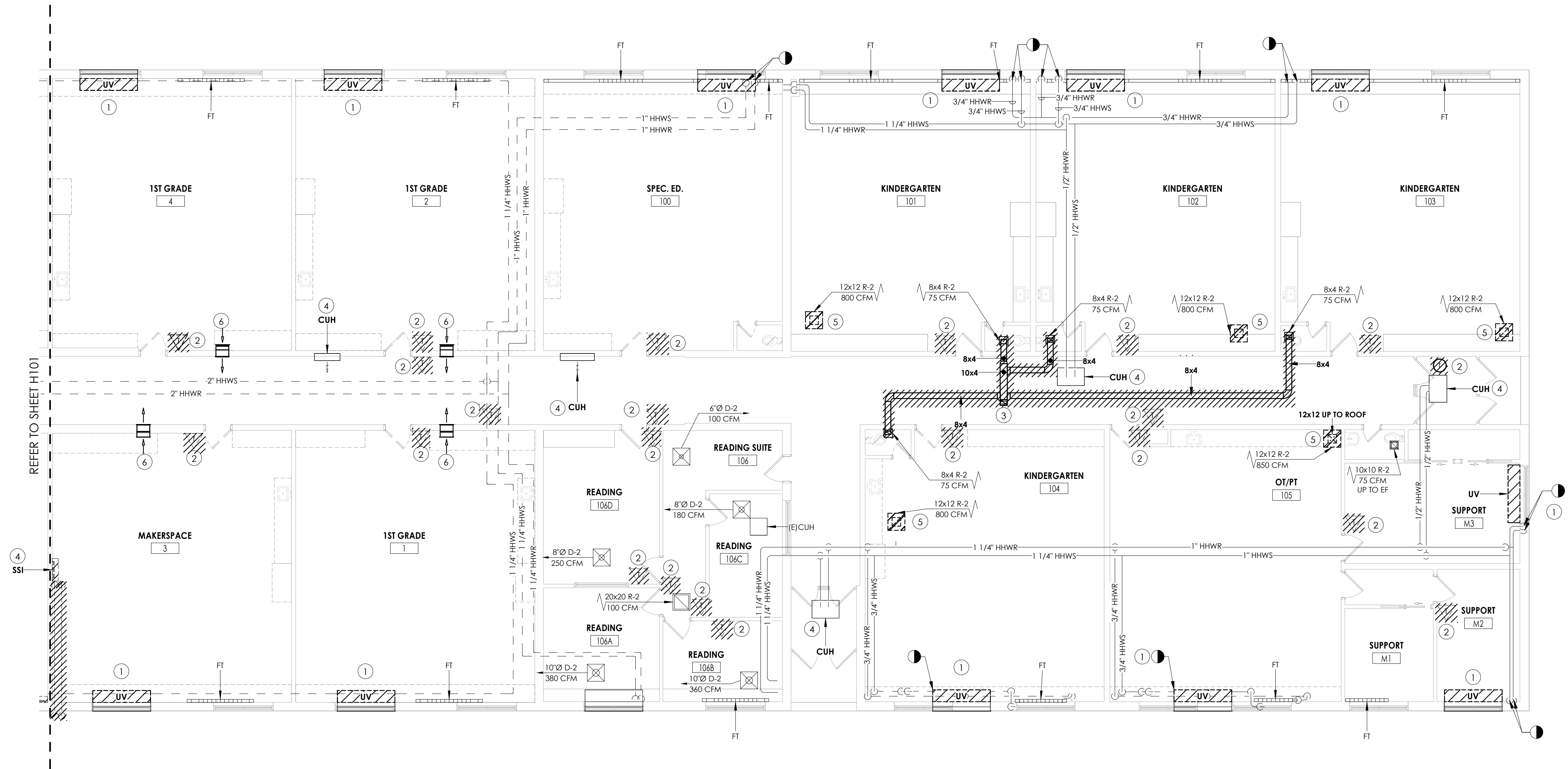
WTH ORANGETOWN CSD
WILLIAM O. SCHAEFER SED#1: 50-03-01-06-0-012-019
COTTAGE LAKE ELEMENTARY SED#1: 50-03-01-06-0-010-022
TAPPAN ZEE HIGH SCHOOL SED#1: 50-03-01-06-0-006-032
WILLIAM O. SCHAEFER S&L SED#1: 50-03-01-06-0-012-020
COTTAGE LAKE S&L SED#1: 50-03-01-06-0-010-023
COTTAGE LAKE LIBRARY S&L SED#1: 50-03-01-06-8-023-022
WS OUTDOOR CLASSROOM SED#1: 50-03-01-06-7-053-001
SCS OUTDOOR CLASSROOM SED#1: 50-03-01-06-7-056-001
CLE OUTDOOR CLASSROOM SED#1: 50-03-01-06-7-054-001
TZHS OUTDOOR CLASSROOM SED#1: 50-03-01-06-7-055-001

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 SHALL AFFIX TO THE ITEM THEIR SEAL AND THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE AND THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

ed	Scale
/18/2023	1/8" = 1'-0"
ect Status	
D DOCUMENT	
wn By	Checked By
CM	JJM
wing Title	
FIRST FLOOR DEMOLITION PLAN- AREA C	

WOS
H102

- 1 REMOVE EXISTING UNIT VENTILATOR. LOUVER AND SLEEVE TO REMAIN. DISCONNECT PIPING AT FINITUBE. REFER TO ARCH. PLANS. MAINTAIN PIPING LOOP. PREPARE FOR NEW WORK.
- 2 REMOVE EXISTING ROOM TEMPERATURE SENSOR AND WIRING BACK TO CONTROL HEAD END. PREPARE FOR NEW WORK.
- 3 REMOVE EXISTING DUCT, GRILLES, AND SUPPORTS UP TO ROOF.
- 4 REMOVE CONTROLS AND PREPARE EXISTING EQUIPMENT FOR NEW CONTROLS.
BID ALTERNATE MC-01.
- 5 REMOVE EXISTING RELIEF AIR GRILLE AND ASSOCIATED DUCTWORK UP TO ROOF FAN.
- 6 REMOVE EXISTING LOW RELIEF AIR GRILLE IN ROOM AND HIGH RELIEF AIR GRILLE IN CORRIDOR. ABANDON DUCTWORK WITHIN WALL. G.C. TO PATCH WALL OPENINGS.

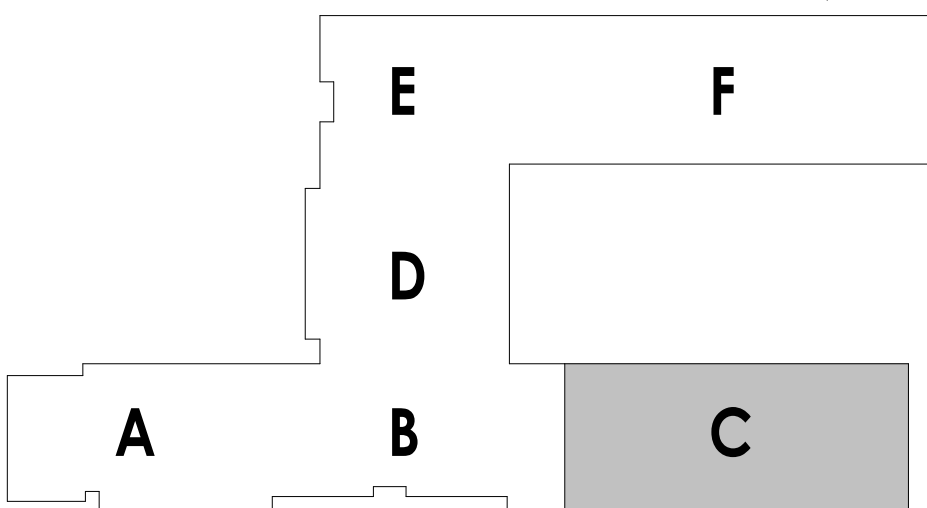
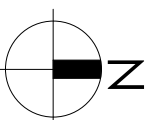


REFER TO SHEET H101

④
SSI—

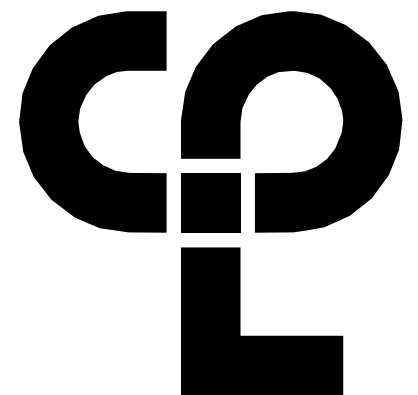
1 FIRST FLOOR DEMOLITION PLAN- AREA C
H102 1/8" = 1'-0"

KEY PLAN:



10/18/2023 5:50:31 AM <project location> REVIT PROJECT FILES ON BIM360

KEY NOTES:
① MECHANICALLY CLEAN ALL DUCTWORK SHOWN ON PLAN. PREPARE FOR SYSTEM RE-BALANCING.



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**SOUTH ORANGETOWN
Central School District**

Capital Improvements Bond

*Essential Infrastructure for Student
Health, Safety and Success*

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

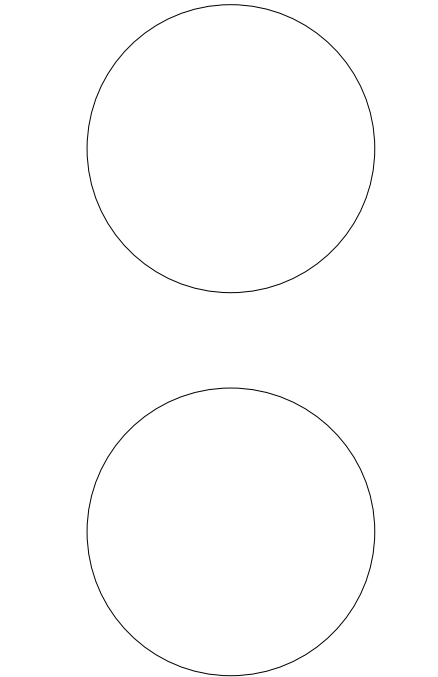
District Office Address
160 VAN WYCK RD. BLAUVELT, NY 10913

- SOUTH ORANGETOWN CSD
- ☒ WILLIAM O. SCHAFER SED# 35-03-01-06-0-010-019
 - ☐ COTTAGE LANE ELEMENTARY SED# 35-03-01-06-0-010-022
 - ☐ TAPPAN ZEE HIGH SCHOOL SED# 35-03-01-06-0-004-002
 - ☐ 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# 35-03-01-06-7-055-001
 - ☐ SCONE OUTDOOR CLASSROOM SED# 35-03-01-06-7-056-001
 - ☐ CLE OUTDOOR CLASSROOM SED# 35-03-01-06-7-054-001
 - ☐ THS OUTDOOR CLASSROOM SED# 35-03-01-06-7-055-001

PROJECT ISSUE & REVISION SCHEDULE

No.	Date	Description
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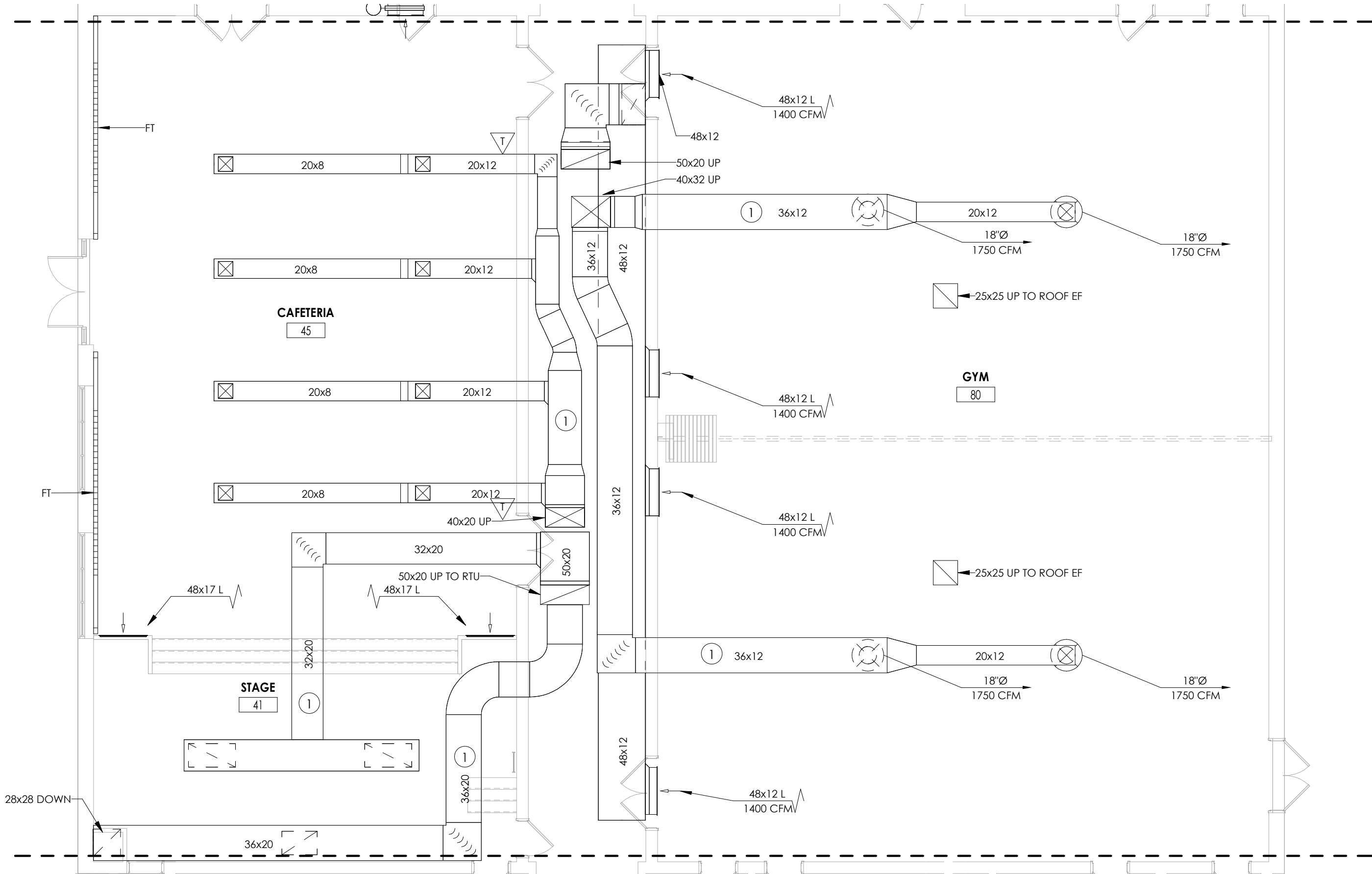
PROFESSIONAL STAMPS



NEW YORK STATE EDUCATION STATEMENT
I, AS A HOLDER OF THE NEW YORK STATE EDUCATION LAW AND THE COMMISSIONER'S
REGULATIONS FOR ANY PERSON, UNDER THE SUPERVISION OF A LICENSED
ARCHITECT, ENGINEER OR LAND SURVEYOR, TO ACT AS AN IDA IN ANY WAY, IF ANY IDA
BEARING THE SEAL OF AN ARCHITECT, ENGINEER OR LAND SURVEYOR, HAS REVIEWED
THIS DRAWING AND THE NEW YORK STATE AND THE ARCHITECT, ENGINEER OR LAND SURVEYOR
THEIR SIGNATURE AND THE DATE OF SUCH REVIEW, AND A SPECIFIC DESCRIPTION OF THE
ALTERNATION.

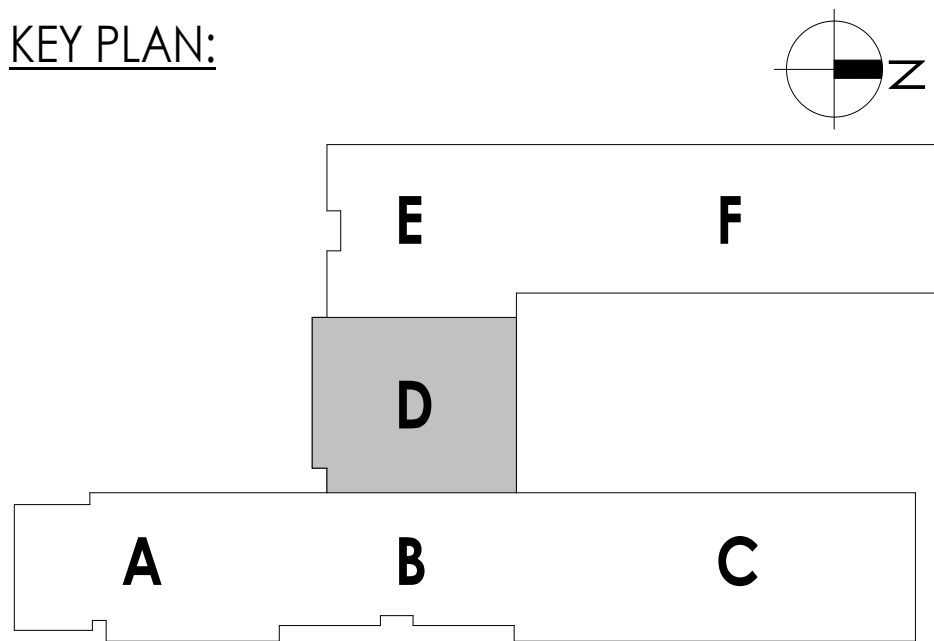
SHEET INFORMATION
Issued
10/18/2023
Project Status
BID DOCUMENT
Drawn By
KCM
Checked By
JJM
Drawing Title
FIRST FLOOR DEMOLITION PLANS-
AREA D

Drawing Number
**WOS
H103**

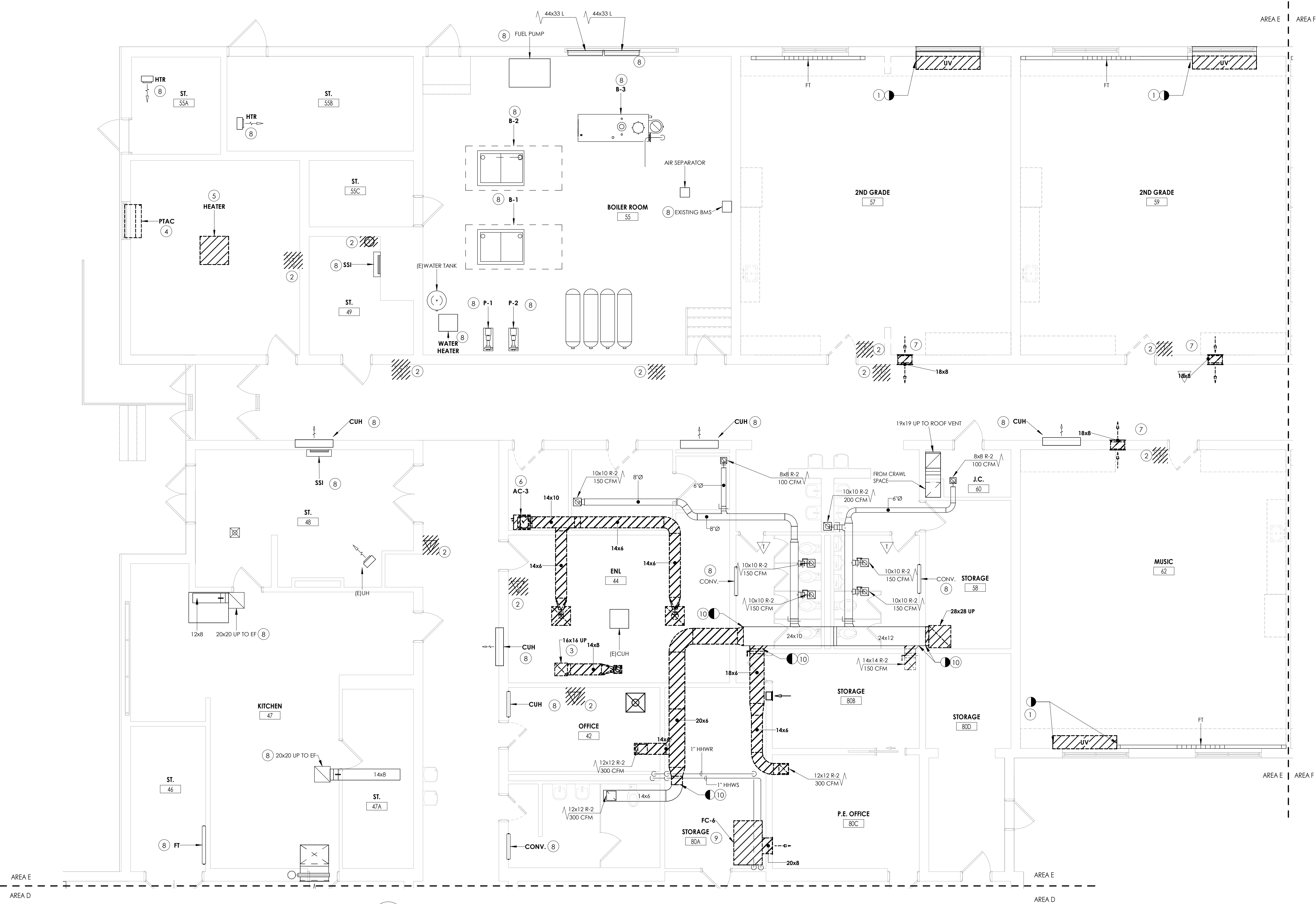


1 H103 **FIRST FLOOR DEMOLITION PLAN- AREA D**
1/8" = 1'-0"

KEY PLAN:

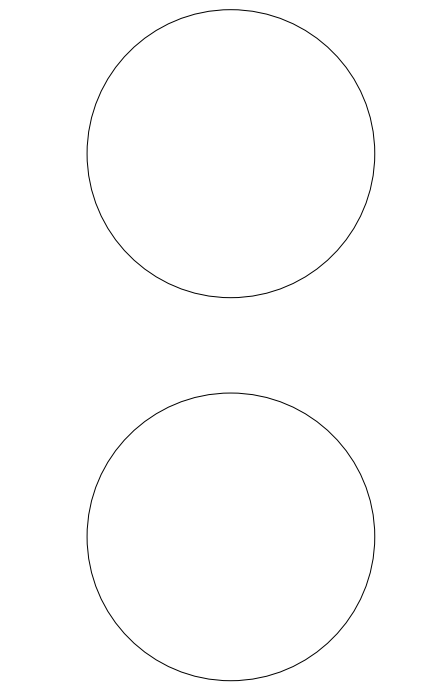
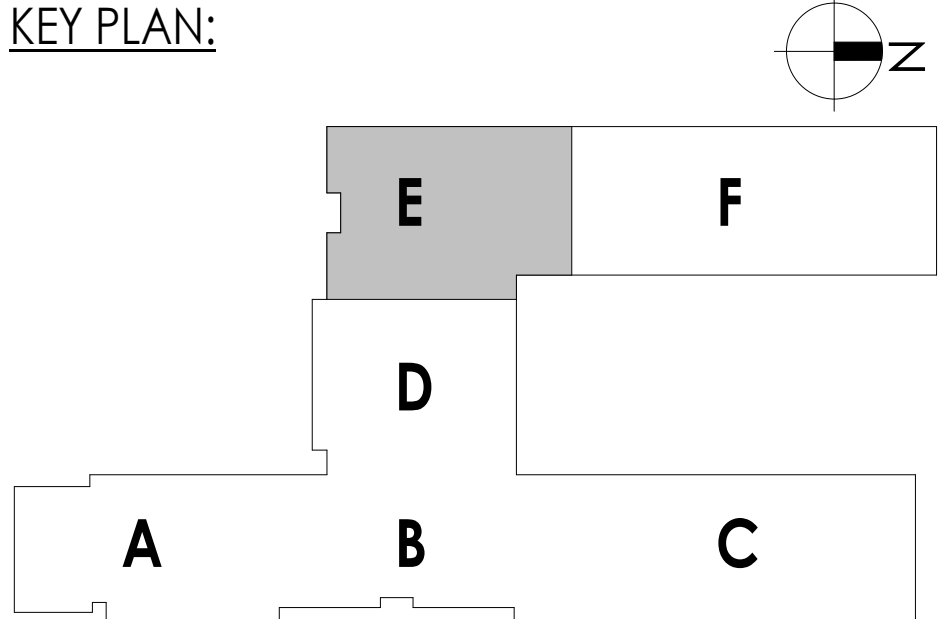


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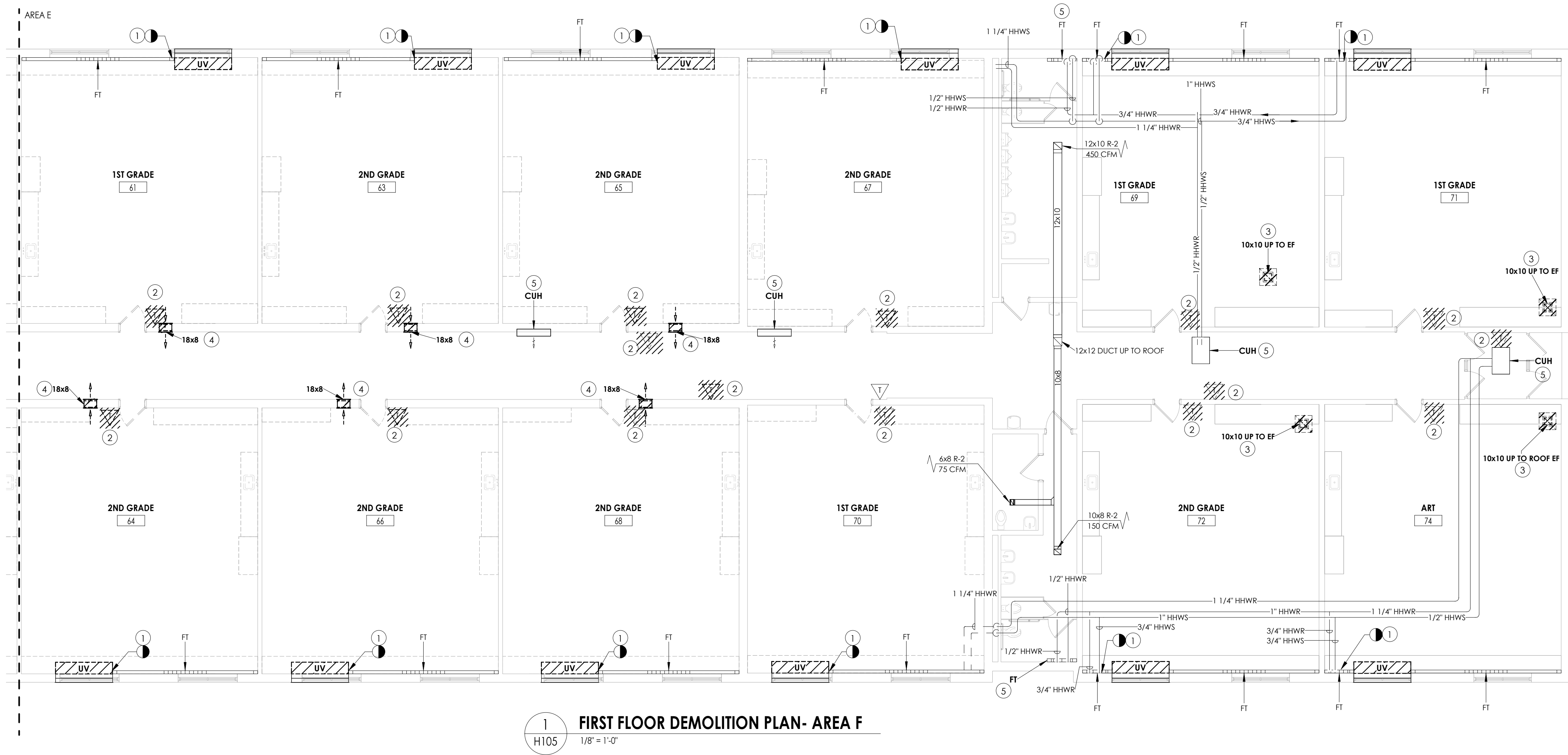


1 H104 FIRST FLOOR DEMOLITION PLAN- AREA E
3/16" = 1'-0"

- KEY NOTES:**
- 1 REMOVE EXISTING UNIT VENTILATOR, LOUVER AND SLEEVE TO REMAIN. DISCONNECT PIPING AT FINITUBE AND CAP. REFER TO ARCH. MAINTAIN THE PIPING LOOP. PREPARE FOR NEW WORK.
 - 2 REMOVE EXISTING ROOM TEMPERATURE SENSOR AND WIRING BACK TO CONTROL HEAD END.
 - 3 REMOVE EXISTING DUCTWORK UP TO ROOF.
 - 4 REMOVE EXISTING PTAC IN ITS ENTIRETY.
 - 5 REMOVE EXISTING CEILING MOUNTED UNIT HEATER. CUT AND CAP CONNECTING PIPING AND ASSOCIATED DUCTWORK UP TO ROOF.
 - 6 REMOVE EXISTING HEATING/COOING UNIT. REMOVE ALL ASSOCIATED PIPING, DUCTWORK, AND CONTROLS. 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.
 - 7 REMOVE EXISTING RELIEF GRILLES. ABANDON DUCTWORK WITHIN WALL. G.C TO PATCH WALL OPENINGS.
 - 8 PREPARE EXISTING EQUIPMENT FOR NEW CONTROLS. **BID ALTERNATE MC-01.**
 - 9 REMOVE EXISTING FAN COIL UNIT AND SUPPORTS. CAP PIPING.
 - 10 REMOVE DUCT TO POINTS INDICATED. PREPARE FOR NEW CONNECTION.



10/18/2023 5:50:39 AM <project location> REVIT PROJECT FILES ON BIM360



1 H105 FIRST FLOOR DEMOLITION PLAN- AREA F
1/8" = 1'-0"

GENERAL NOTES

- 1 REMOVE EXISTING UNIT VENTILATOR, LOUVER AND SLEEVE TO REMAIN. DISCONNECT PIPING AT FINITUBE AND CAP. REFER TO ARCH. PLANS. MAINTAIN THE PIPING LOOP. PREPARE FOR NEW WORK.
- 2 REMOVE EXISTING ROOM TEMPERATURE SENSOR AND WIRING BACK TO CONTROL HEAD END. PREPARE FOR NEW WORK.
- 3 REMOVE EXISTING DUCT UP TO EXHAUST FAN.
- 4 REMOVE EXISTING RELIEF GRILLES. ABANDON DUCTWORK WITHIN WALL. G.C TO PATCH WALL OPENINGS.
- 5 PREPARE EXISTING EQUIPMENT FOR NEW CONTROLS. **BID ALTERNATE MC-01.**

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

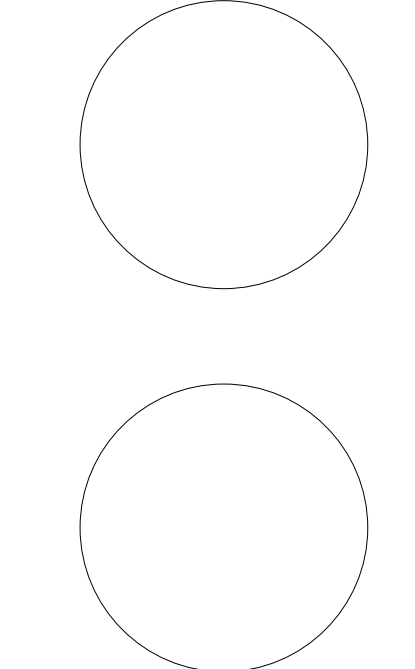
SOUTH ORANGETOWN CSD

- WILLIAM O. SCHAFER SED# 35-03-01-06-0-010-019
- COTTAGE LANE ELEMENTARY SED# 35-03-01-06-0-010-022
- TAPPAN ZEE HIGH SCHOOL SED# 35-03-01-06-0-004-002
- 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
- 12HS OUTDOOR CLASSROOM SED# 35-03-01-06-7-035-001

PROJECT ISSUE & REVISION SCHEDULE

No. Date Description

PROFESSIONAL STAMPS



NEW YORK STATE EDUCATION STATUTE
IT IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND THE COMMISSIONER'S
REGULATIONS FOR ANY PERSON, UNDER ACTUAL OR CONSTRUCTIVE CONTROL OF A LICENSED
ARCHITECT, ENGINEER OR LAND SURVEYOR, TO ACT AS AN AGENT IN ANY WAY, BY ANY MEANS,
BEARING THE SEAL OF AN ARCHITECT, ENGINEER OR LAND SURVEYOR, IN THE ATTENDING
PRACTICE OF ANY OF THE TRADES, ARTS, MANUFACTURES, AGRICULTURE, MINING, FISHING, HUNTING,
OR ANY OTHER BUSINESS, WITHOUT BEING A MEMBER OF THE PROFESSION, AND A SPECIFIC DESCRIPTION OF THE
VIOLATION.

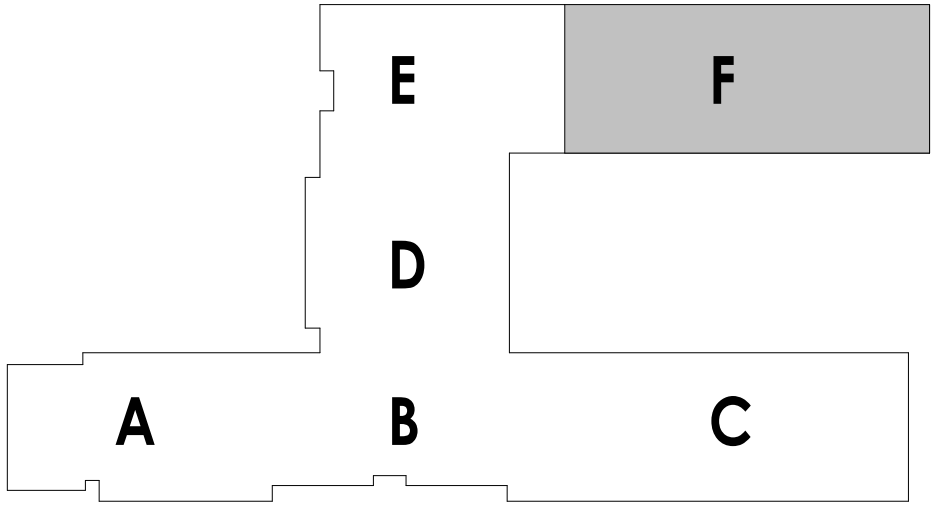
SHEET INFORMATION

Issued
10/18/2023
Project Status
BID DOCUMENT
Drawn By
KCM
Checked By
JJM
Drawing Title
FIRST FLOOR DEMOLITION PLANS-
AREA F

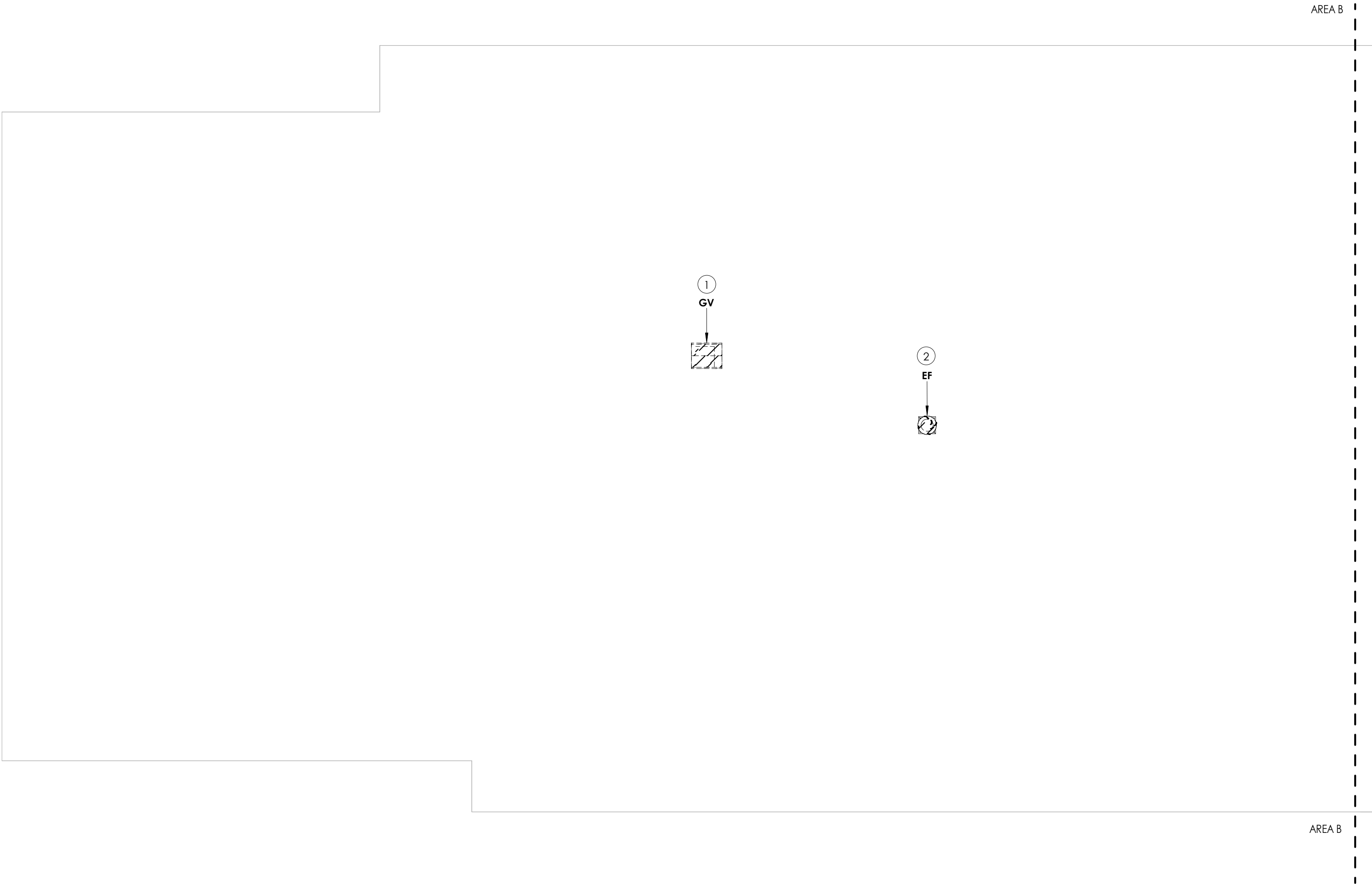
Drawing Number

WOS
H105

KEY PLAN:



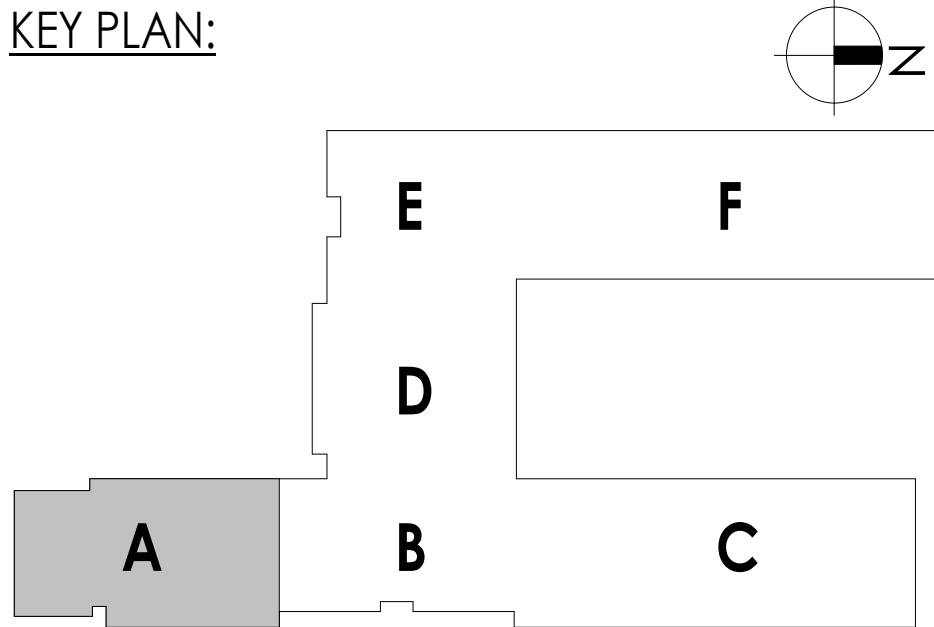
- KEY NOTES:**
- ① REMOVE EXISTING GRAVITY HOOD.
 - ② REMOVE EXISTING EXHAUST FAN.



1
H110
1/8" = 1'-0"

ROOF HVAC DEMOLITION PLAN- AREA A

KEY PLAN:



PROJECT INFORMATION

Project Number
14457.20

Client Name
**SOUTH ORANGETOWN CENTRAL
SCHOOL DISTRICT**

Project Name
PHASE 1: 2022 BOND

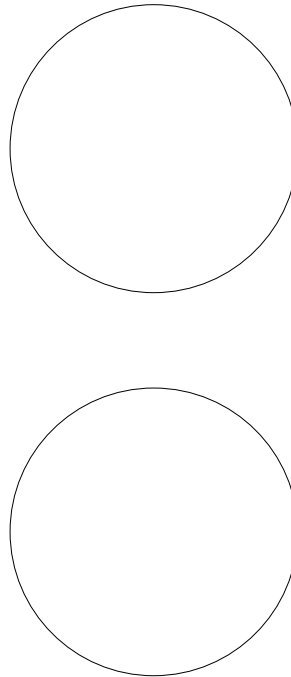
District Office Address
160 VAN WYCK RD. BLAUVELT, NY 10913

- SOUTH ORANGETOWN CSD**
- ☒ WILLIAM O. SCHAFER SED#50-03-01-06-0-010-019
 - ☐ COTTAGE LANE ELEMENTARY SED#50-03-01-06-0-010-022
 - ☐ TAPPAN ZEE HIGH SCHOOL SED#50-03-01-06-0-004-002
 - ☐ WILLIAM O. SCHAFER SAL SED#50-03-01-06-0-010-020
 - ☐ 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#50-03-01-06-7-035-001
 - ☐ SCONE OUTDOOR CLASSROOM SED#50-03-01-06-7-036-001
 - ☐ CLE OUTDOOR CLASSROOM SED#50-03-01-06-7-034-001
 - ☐ TMS OUTDOOR CLASSROOM SED#50-03-01-06-7-035-001

PROJECT ISSUE & REVISION SCHEDULE

No.	Date	Description
-----	------	-------------

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 PERSON, UNDER THE SUPERVISION OF A LICENSED ARCHITECT, ENGINEER OR LAND SURVEYOR, TO ALTER ANY ITEM IN ANY WAY, IF ANY ITEM, BEARING THE SEAL OF AN ARCHITECT, ENGINEER OR LAND SURVEYOR, IS ALTERED, THE ALTERING PARTY SHALL WITHIN 180 DAYS FROM THE DATE THE VIOLATION IS FIRST DETECTED BY THEIR SUPERVISOR AND THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

SHEET INFORMATION

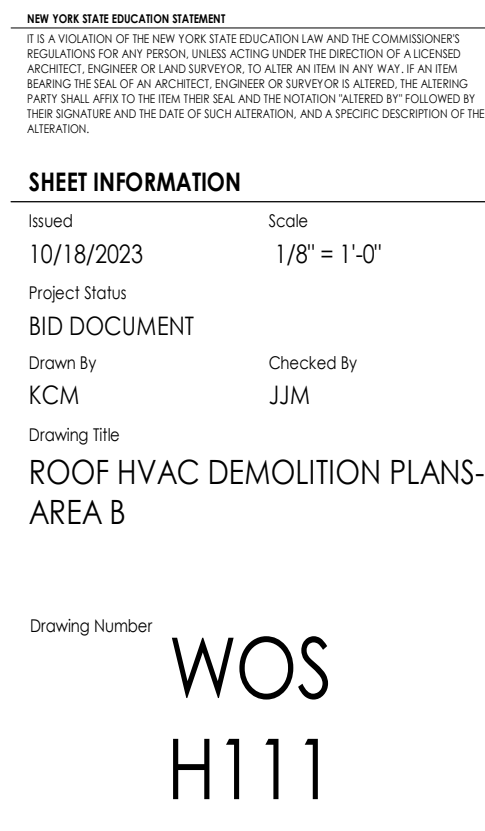
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10/18/2023	1/8" = 1'-0"
Project Status	
BID DOCUMENT	
Drawn By	Checked By
KCM	JJM
Drawing Title	
ROOF HVAC DEMOLITION PLANS- AREA A	

Drawing Number
**WOS
H110**

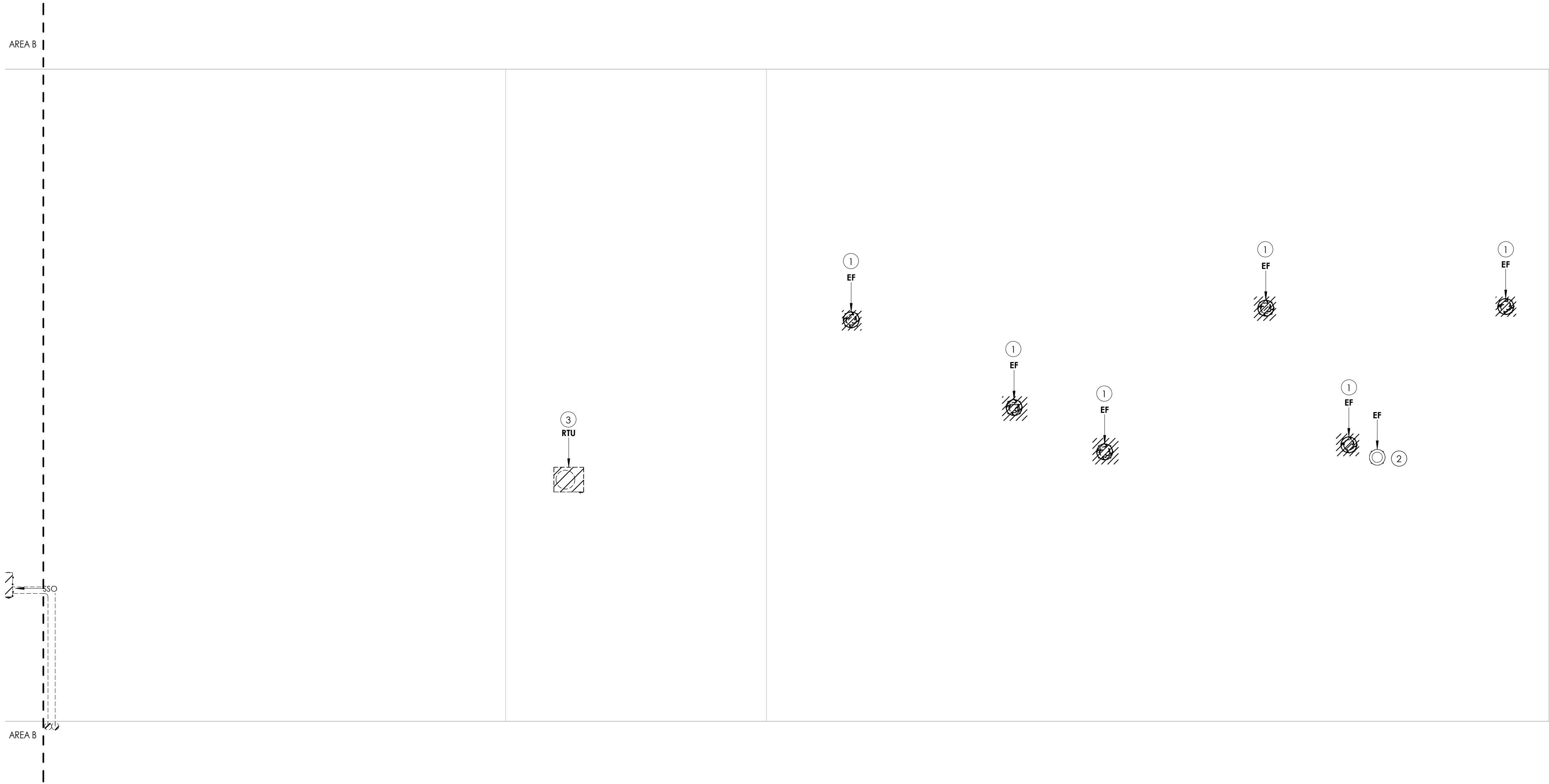


KEY PLAN:

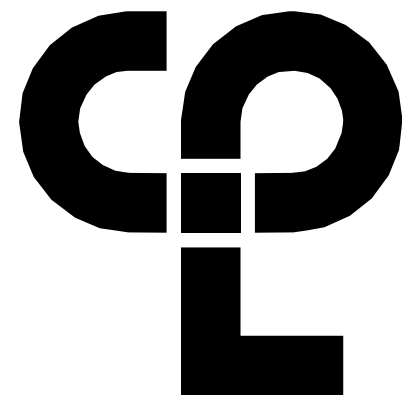
The key plan shows a site layout with six numbered areas. Area B is shaded grey. A north arrow is located in the top right corner, pointing towards the top right of the page.



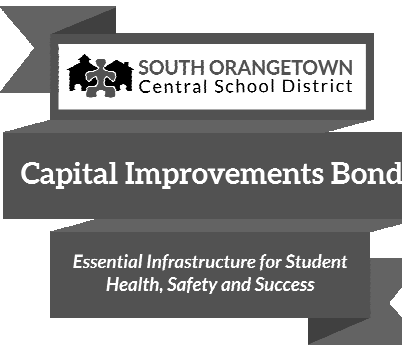
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- KEY NOTES:**
- 1 REMOVE EXISTING EXHAUST FAN.
 - 2 REMOVE EXISTING AND PREPARE EXISTING EQUIPMENT FOR NEW CONTROLS. **BID ALTERNATE MC-01.**
 - 3 REMOVE EXISTING ROOFTOP UNIT AND DISCONNECT DUCTWORK. PREPARE CURB AND DUCTWORK FOR NEW UNIT.



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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

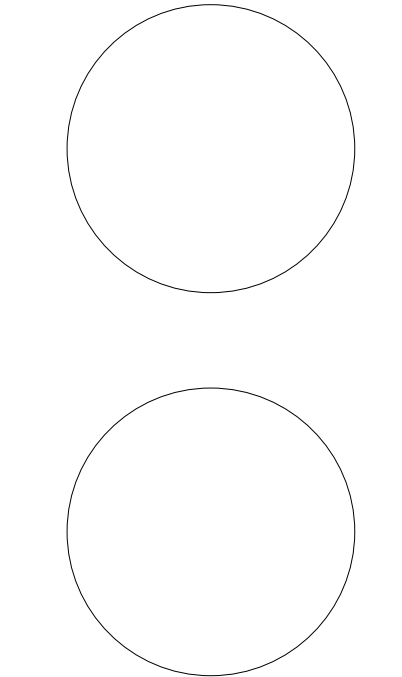
SOUTH ORANGETOWN CSD

- ☒ WILLIAM O. SCHAFER SED#50-03-01-06-0-010-001
- ☐ COTTAGE LANE ELEMENTARY SED#50-03-01-06-0-010-002
- ☐ TAPPAN ZEE HIGH SCHOOL SED#50-03-01-06-0-004-002
- ☐ WILLIAM O. SCHAFER SAL SED#50-03-01-06-0-010-000
- ☐ COTTAGE LANE SAL SED#50-03-01-06-0-010-003
- ☐ COTTAGE LANE LIBRARY SAL SED#50-03-01-06-8-003-002
- ☐ WOS OUTDOOR CLASSROOM SED#50-03-01-06-7-035-001
- ☐ SCONE OUTDOOR CLASSROOM SED#50-03-01-06-7-036-001
- ☐ CLE OUTDOOR CLASSROOM SED#50-03-01-06-7-034-001
- ☐ T2H5 OUTDOOR CLASSROOM SED#50-03-01-06-7-035-001

PROJECT ISSUE & REVISION SCHEDULE

No. Date Description

PROFESSIONAL STAMPS



NEW YORK STATE EDUCATION STATMENT
IF IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND THE COMMISSIONER'S REGULATION FOR ANY PERSON, UNDER THE SUPERVISION OF A LICENSED ARCHITECT, ENGINEER OR LAND SURVEYOR, TO ACT AS AN ITA IN ANY WAY, IF AN ITA, BEARING THE SEAL OF AN ARCHITECT, ENGINEER OR LAND SURVEYOR, HAS ATTEMPTED TO SIGN, SEAL, DATE OR OTHERWISE REPRESENT HIMSELF OR HERSELF AS FOLLOWING BY THEIR SIGNATURE AND THE DATE OF SUCH ATTESTATION, AND A SPECIFIC DESCRIPTION OF THE ATTESTATION.

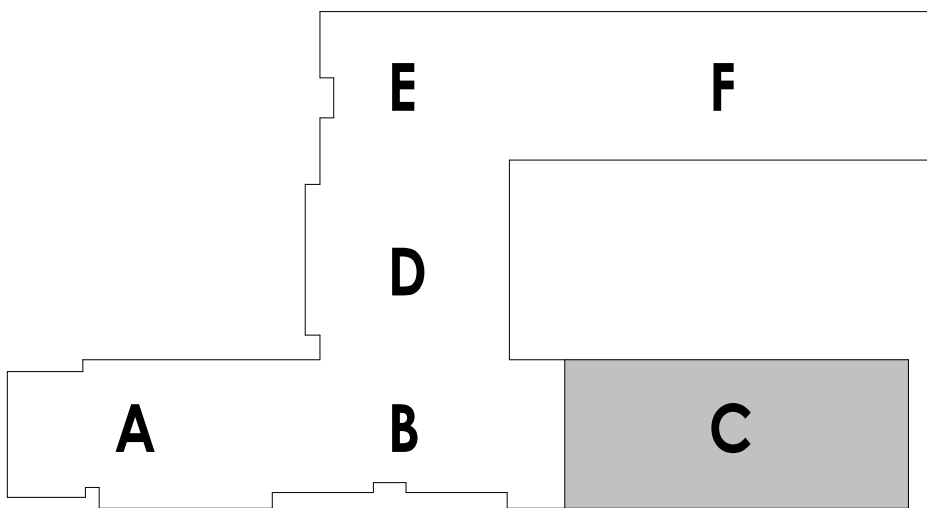
SHEET INFORMATION

Issued
10/18/2023
Scale
1/8" = 1'-0"
Project Status
BID DOCUMENT
Drawn By
KCM
Checked By
JJM
Drawing Title
ROOF HVAC DEMOLITION PLANS- AREA C

Drawing Number

**WOS
H112**

KEY PLAN:



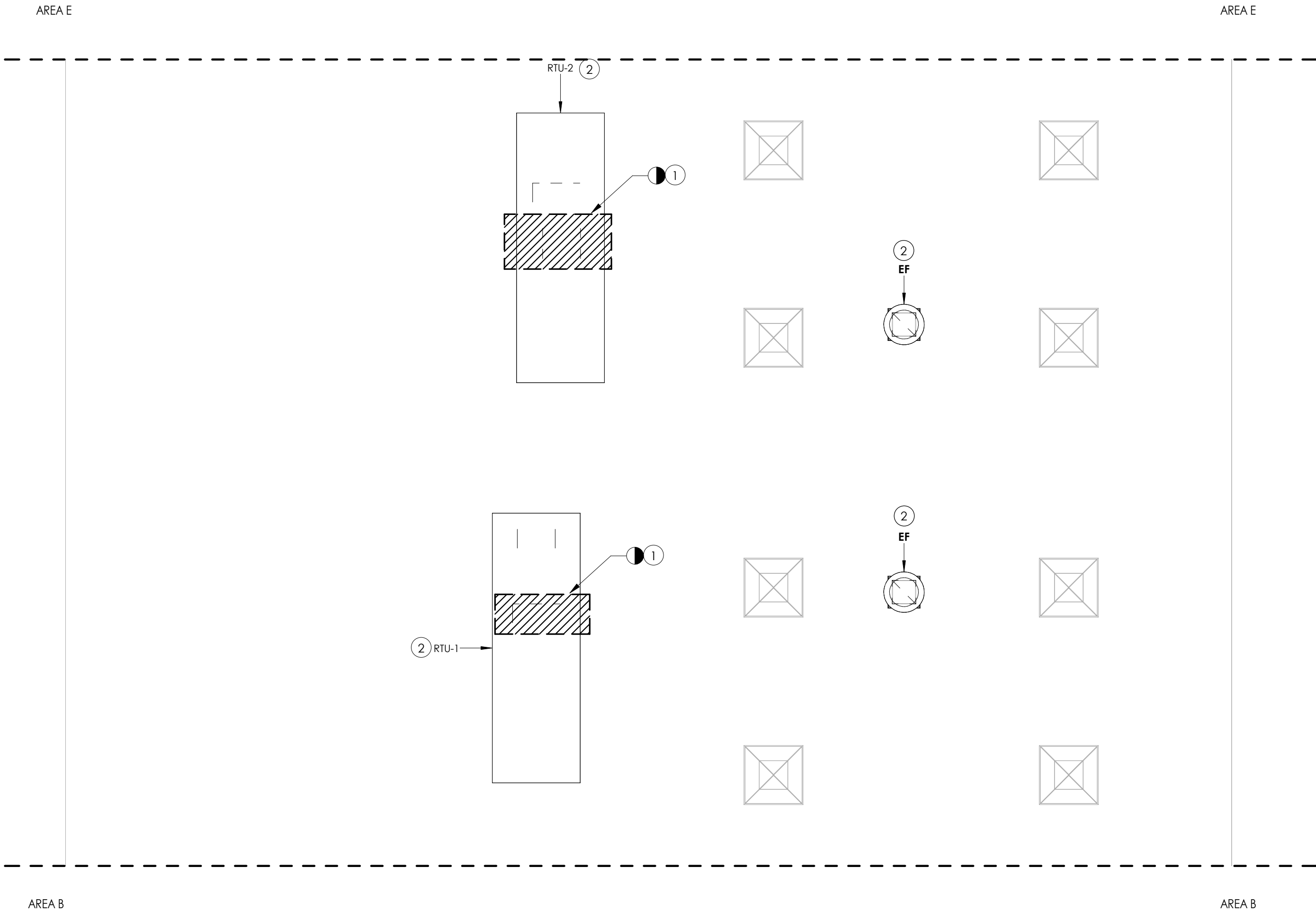
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KEY NOTES:

- 1

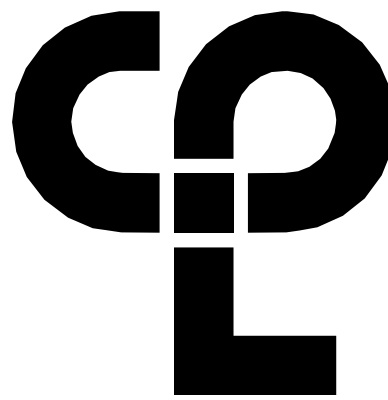
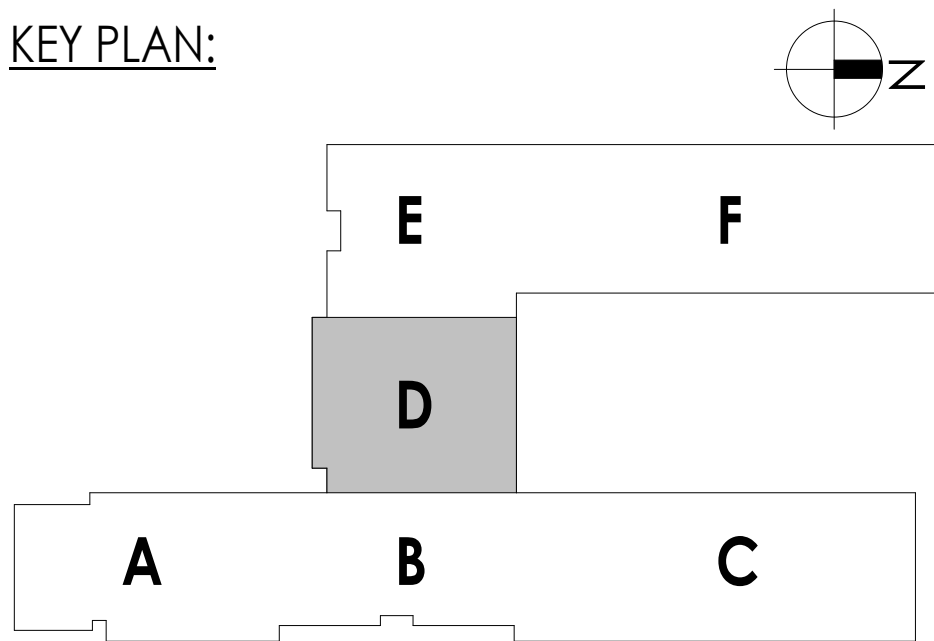
PREPARE EXISTING ROOF TOP UNIT FOR NEW DX COIL AND SPLIT CONDENSER UNIT. ALL DUCTWORK IN SPACE BELOW TO REMAIN.
- 2

REMOVE CONTROLS AND PREPARE EXISTING EQUIPMENT FOR NEW CONTROLS. **BID ALTERNATE MC-01.**

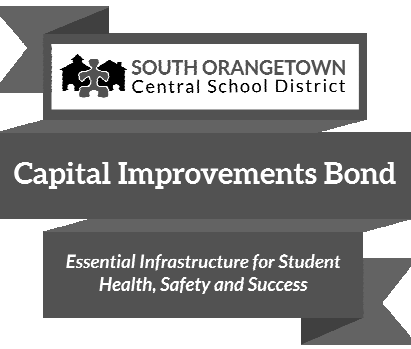


1
H113
1/8" = 1'-0"

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

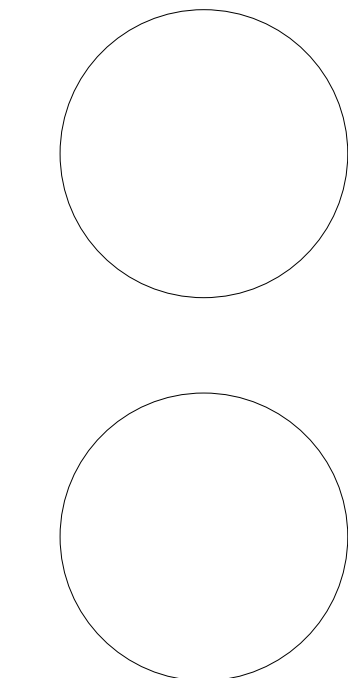
SOUTH ORANGETOWN CSD

- WILLIAM O. SCHAFER SED# 50-03-01-06-0-010-001
- COTTAGE LANE ELEMENTARY SED# 50-03-01-06-0-010-002
- TAPPAN ZEE HIGH SCHOOL SED# 50-03-01-06-0-004-002
- WILLIAM O. SCHAFER SAL SED# 50-03-01-06-0-010-002
- COTTAGE LANE SAL SED# 50-03-01-06-0-010-002
- COTTAGE LANE LIBRARY SAL SED# 50-03-01-06-8-003-002
- WOS OUTDOOR CLASSROOM SED# 50-03-01-06-7-055-001
- SCONE 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
-----	------	-------------

PROFESSIONAL STAMPS



NEW YORK STATE EDUCATION STATUTE
IF IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND THE COMMISSIONER'S REGULATIONS FOR ANY PERSON, 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 ARCHITECT, ENGINEER OR LAND SURVEYOR SHALL BE SUBJECT TO THE PENALTIES PROVIDED BY THE EDUCATION LAW AND THE EDUCATION REGULATIONS FOR VIOLATION OF THEIR SIGNATURE AND THE DATE OF SUCH VIOLATION, AND A SPECIFIC DESCRIPTION OF THE VIOLATION.

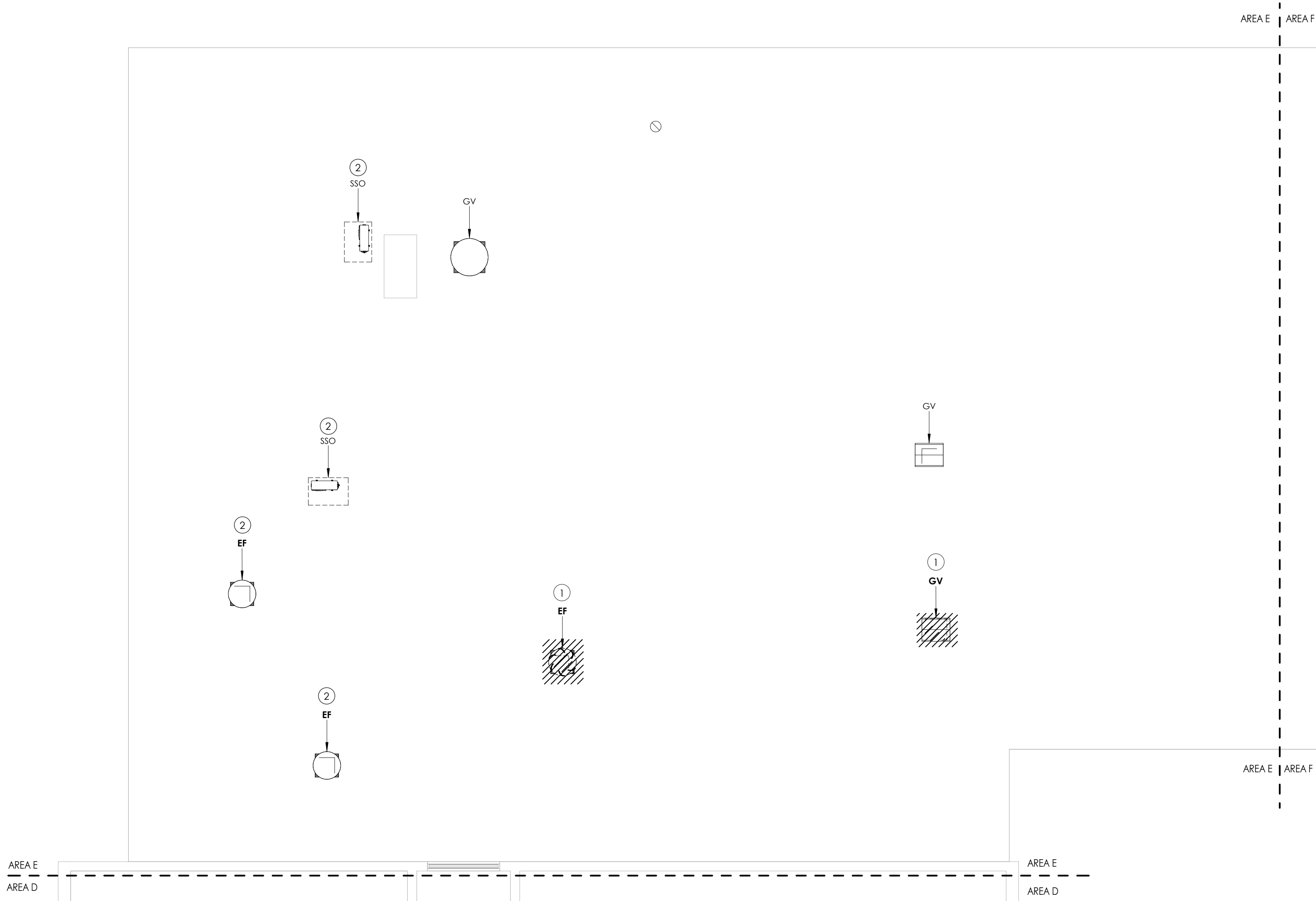
SHEET INFORMATION

Issued
10/18/2023
Scale
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Project Status
BID DOCUMENT
Drawn By
KCM
Checked By
JJM
Drawing Title
ROOF HVAC DEMOLITION PLAN - AREA D

Drawing Number

WOS
H113

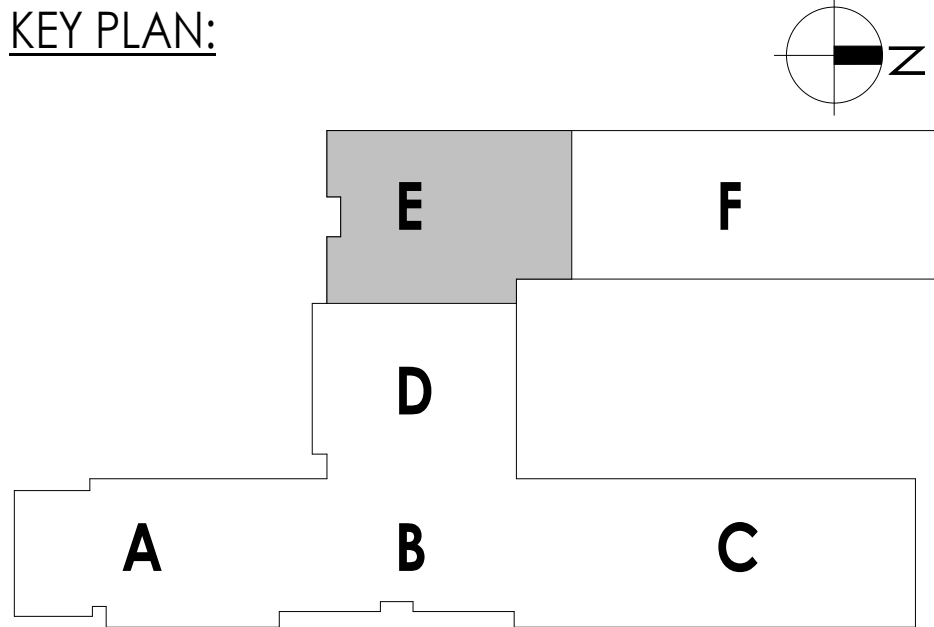
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1
H114
1/8" = 1'-0"

ROOF HVAC DEMOLITION PLAN- AREA E

KEY PLAN:



- KEY NOTES:**
- 1 REMOVE EXISTING ROOFTOP VENTILATION HOOD.
 - 2 REMOVE CONTROLS AND PREPARE EXISTING EQUIPMENT FOR NEW CONTROLS.
BID ALTERNATE MC-01.

CPL

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

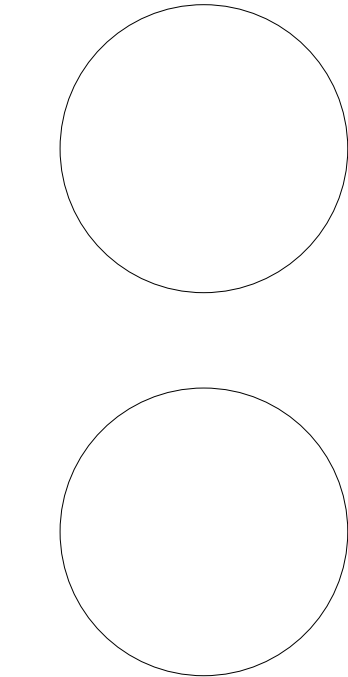
District Office Address
160 VAN WYCK RD. BLAUVELT, NY 10913

- SOUTH ORANGETOWN CSD**
- ☒ WILLIAM O. SCHAFER SED# 35-03-01-06-0-010-019
 - ☐ COTTAGE LANE ELEMENTARY SED# 35-03-01-06-0-010-022
 - ☐ TAPPAN ZEE HIGH SCHOOL SED# 35-03-01-06-0-004-002
 - ☐ 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
-----	------	-------------

PROFESSIONAL STAMPS



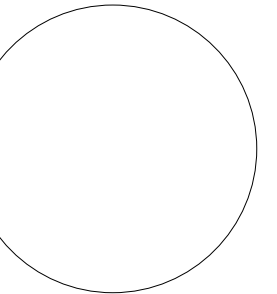
NEW YORK STATE EDUCATION STATEMENT

I, A VIOLATOR OF THE NEW YORK STATE EDUCATION LAW AND THE COMMISSIONER'S REGULATIONS FOR ANY PERSON, UNDER THE SUPERVISION OF A LICENSED ARCHITECT, ENGINEER OR LAND SURVEYOR, TO ADD ANY ITEM IN ANY WAY, OF ANY ITEM, BEARING THE SEAL OF AN ARCHITECT, ENGINEER OR LAND SURVEYOR, TO THE DRAWING, PLAN, SPEC, AND/OR THE NEW YORK STATE AND THE ARCHITECT, ENGINEER OR LAND SURVEYOR, THEIR SIGNATURE AND THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

SHEET INFORMATION

Issued	Scale
10/18/2023	1/8" = 1'-0"
Project Status	
BID DOCUMENT	
Drawn By	Checked By
KCM	JJM
Drawing Title	
ROOF HVAC DEMOLITION PLAN- AREA E	

Drawing Number
**WOS
H114**



KEY NOTES:

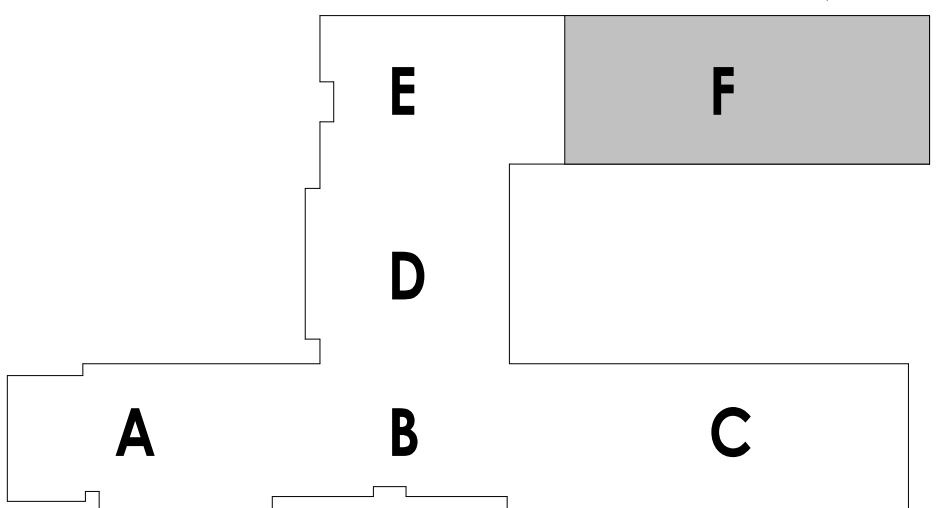
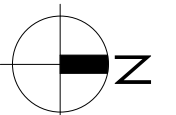
- ① REMOVE EXISTING EXHAUST FAN.
- ② REMOVE CONTROLS AND PREPARE EXISTING EQUIPMENT FOR NEW CONTROLS.
BID ALTERNATE MC-01.

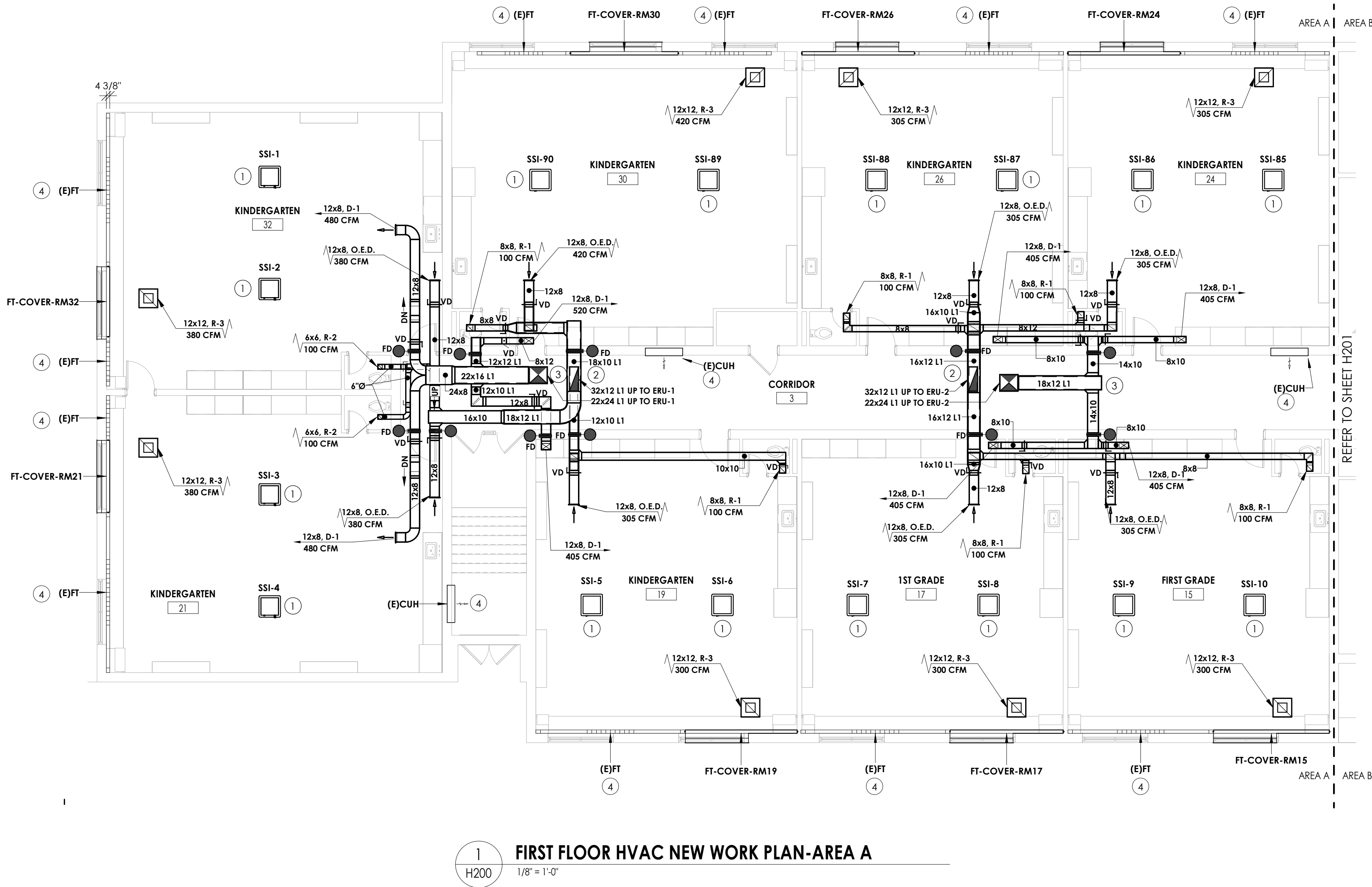
AREA E

AREA E

1 ROOF HVAC DEMOLITION PLAN- AREA F
H115 1/8" = 1'-0"

KEY PLAN:



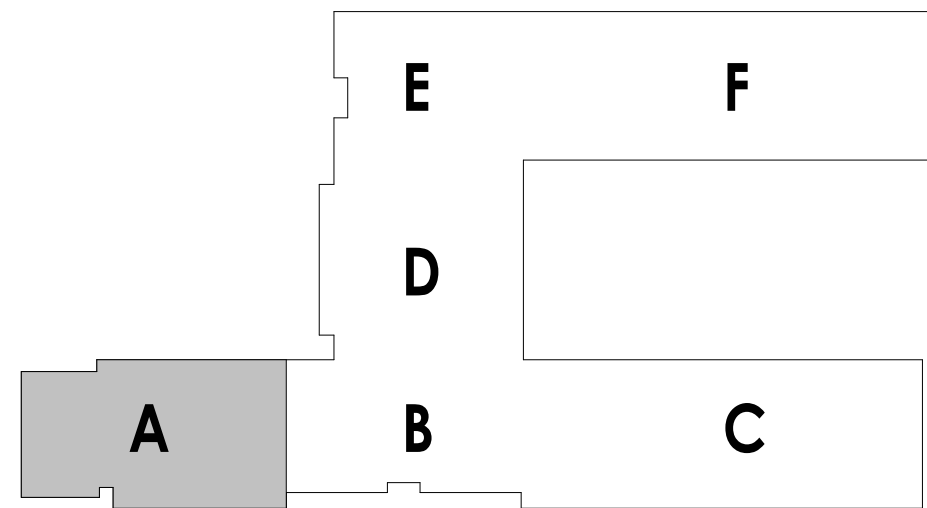


1 FIRST FLOOR HVAC NEW WORK PLAN-AREA A
H200 1/8" = 1'-0"

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 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:



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

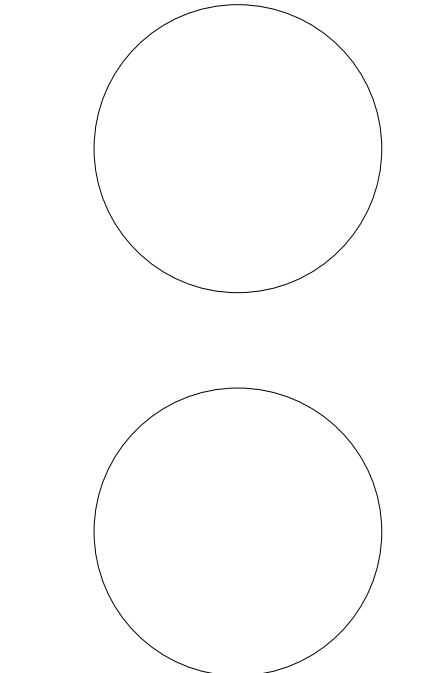
SOUTH ORANGETOWN CSD

- WILLIAM O. SCHAFER SED# 35-03-01-06-0-010-0219
- COTTAGE LANE ELEMENTARY SED# 35-03-01-06-0-010-022
- TAPPAN ZEE HIGH SCHOOL SED# 35-03-01-06-0-004-002
- 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
- 1245 OUTDOOR CLASSROOM SED# 35-03-01-06-7-035-001

PROJECT ISSUE & REVISION SCHEDULE

No. Date Description

PROFESSIONAL STAMPS



NEW YORK STATE EDUCATION DEPARTMENT
IF IS A VIOLATION OF THE 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 SUCH IN ANY WAY, IF ANY FROM BEARING THE SEAL OF AN ARCHITECT, ENGINEER OR LAND SURVEYOR, THE ATTESTING PART SHALL BE VOID TO THE EXTENT THAT THE SIGNATURE IS NOT BEING FOLLOWED BY THEIR SIGNATURE AND THE DATE OF SUCH ATTESTATION, AND A SPECIFIC DESCRIPTION OF THE VIOLATION.

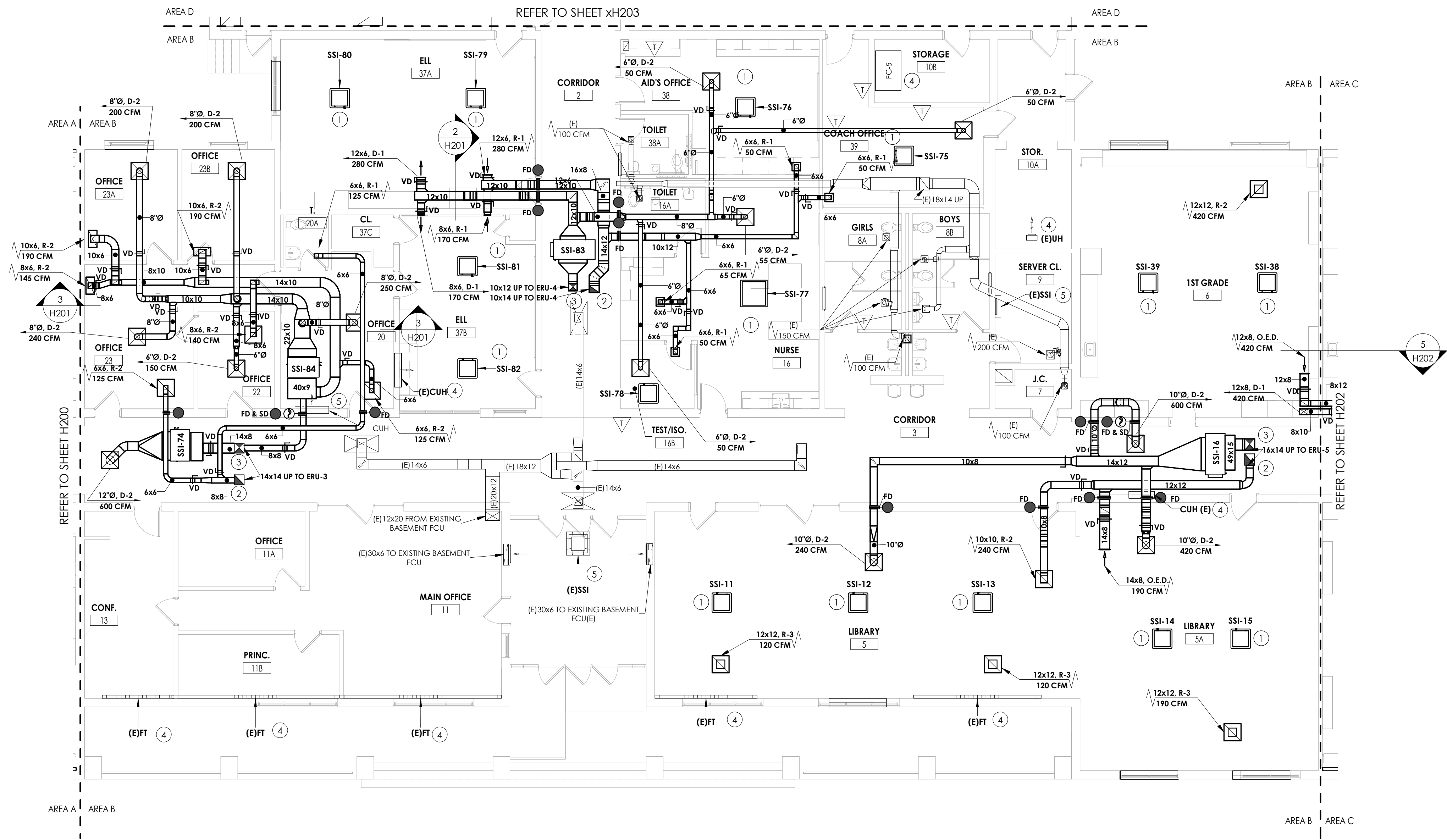
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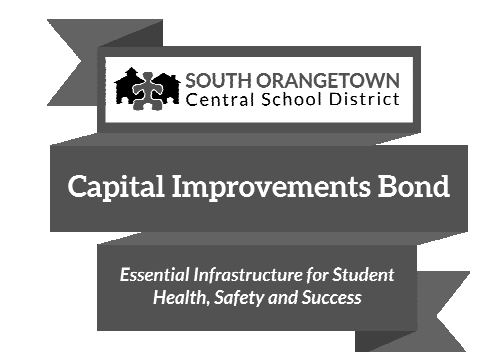
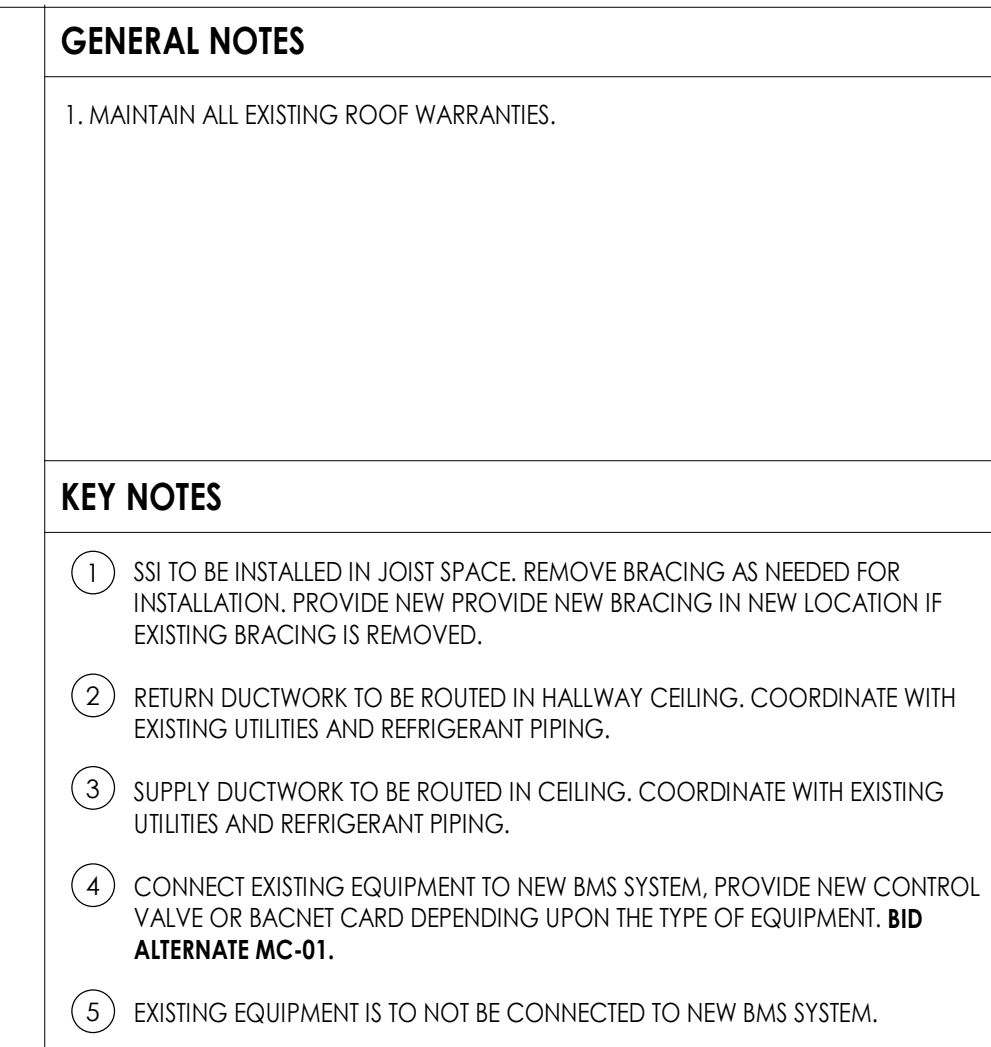
Issued
10/18/2023
Scale
1/8" = 1'-0"
Project Status
BID DOCUMENT
Drawn By
KCM
Checked By
JJM
Drawing Title
FIRST FLOOR HVAC NEW WORK
PLAN- AREA A

Drawing Number

WOS
H200

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PROJECT INFORMATION

Project Number
14457.20

Client Name
**SOUTH ORANGETOWN CENTRAL
SCHOOL DISTRICT**

Project Name
PHASE 1: 2022 BOND

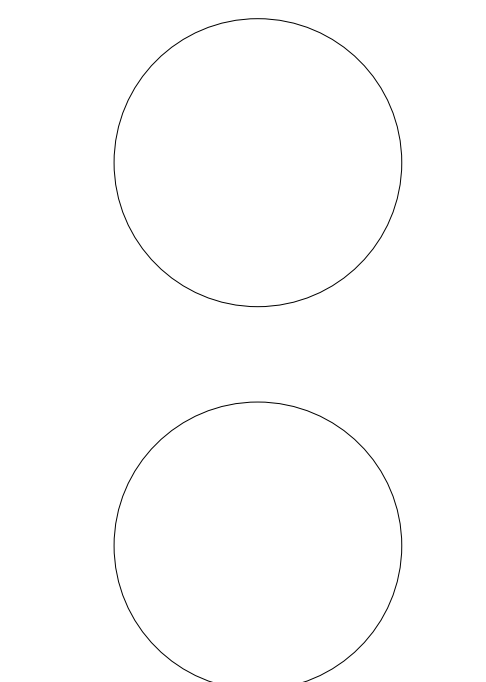
District Office Address
160 VAN WYCK RD. BLAUVELT, NY 10913

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# 50-03-01-06-0-006-032
- 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# 50-03-01-06-7-056-001
- CLE OUTDOOR CLASSROOM SED# 50-03-01-06-7-054-001
- THS OUTDOOR CLASSROOM SED# 50-03-01-06-7-055-001

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PROFESSIONAL STAMPS



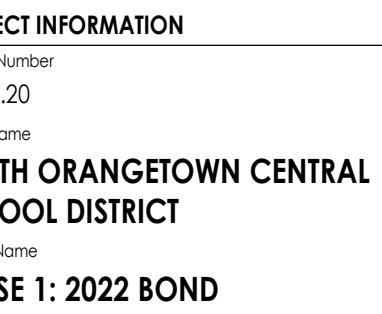
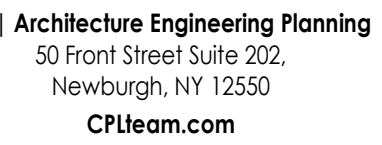
NEW YORK STATE EDUCATION STATEMENT

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

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

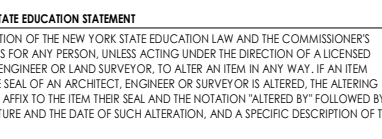
Drawing Number

WOS
H202



ORANGETOWN CSD
JAM O. SCHAEFER SED#: 50-03-01-06-0-012-019
TAGE LANE ELEMENTARY SED#: 50-03-01-06-0-010-022
JAN ZEE HIGH SCHOOL SED#: 50-03-01-06-0-006-032
JAM O. SCHAEFER S&L SED#: 50-03-01-06-0-012-020
TAGE LANE S&L SED#: 50-03-01-06-0-010-023
TAGE LANE LIBRARY S&L SED#: 50-03-01-06-0-028-002
OUTDOOR CLASSROOM SED#: 50-03-01-06-7-033-001
S OUTDOOR CLASSROOM SED#: 50-03-01-06-7-056-001
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PROFESSIONAL STAMPS

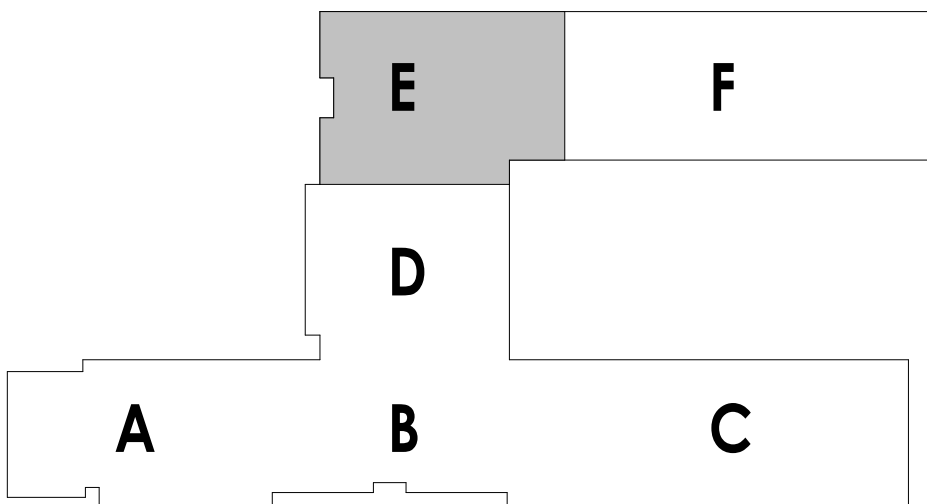


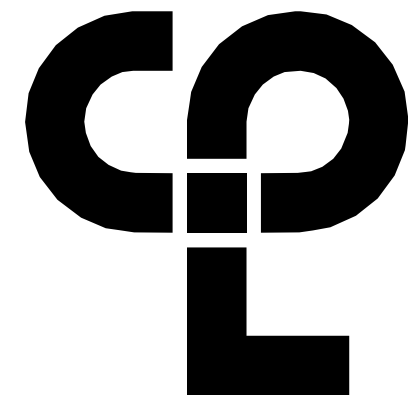
Number
WOS
H204

- 1 SS1 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 INSTALL 4" FINNED TUBE WITH DRAFT STOP WHERE INDICATED. PROVIDE WITH COVER.
- 6 CONNECT EXISTING EQUIPMENT TO NEW BMS SYSTEM. PROVIDE NEW CONTROL VALVE OR BACNET CARD DEPENDING UPON THE TYPE OF EQUIPMENT. **BID ALTERNATE MC-01.**



A circle with a horizontal radius and a vertical radius. The sector formed by the horizontal radius, the vertical radius, and the arc between them is shaded black. To the right of the circle is the letter Z .





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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

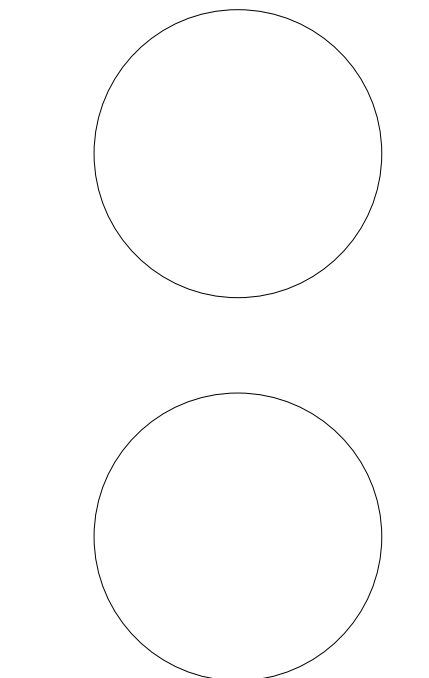
SOUTH ORANGETOWN CSD

- WILLIAM O. SCHAFER SED# 50-03-01-06-0-010-001
- COTTAGE LAKE ELEMENTARY SED# 50-03-01-06-0-010-002
- TAPPAN ZEE HIGH SCHOOL SED# 50-03-01-06-0-004-002
- WILLIAM O. SCHAFER SAL SED# 50-03-01-06-0-010-002
- COTTAGE LAKE SAL SED# 50-03-01-06-0-010-003
- COTTAGE LAKE LIBRARY SAL SED# 50-03-01-06-0-003-002
- WOS OUTDOOR CLASSROOM SED# 50-03-01-06-7-035-001
- WOS OUTDOOR CLASSROOM SED# 50-03-01-06-7-035-001
- CLE OUTDOOR CLASSROOM SED# 50-03-01-06-7-035-001
- 1795 OUTDOOR CLASSROOM SED# 50-03-01-06-7-035-001

PROJECT ISSUE & REVISION SCHEDULE

No. Date Description

PROFESSIONAL STAMPS



NEW YORK STATE EDUCATION STATUTE

IF A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND THE COMMISSIONER'S REGULATIONS FOR ANY REASON, THESE ACTS ARE UNDER THE DIRECTION OF A LICENSED ARCHITECT, ENGINEER OR LAND SURVEYOR TO ACT AS AN ATTORNEY IN A CIVIL ACTION, BEARING THE SEAL OF AN ARCHITECT, ENGINEER OR LAND SURVEYOR, THE ARCHITECT, ENGINEER OR LAND SURVEYOR SHALL BE RESPONSIBLE FOR THE VIOLATION OF THE STATUTE.

SHEET INFORMATION

Issued

10/18/2023

Project Status

BID DOCUMENT

Drawn By

KCM

Drawing Title

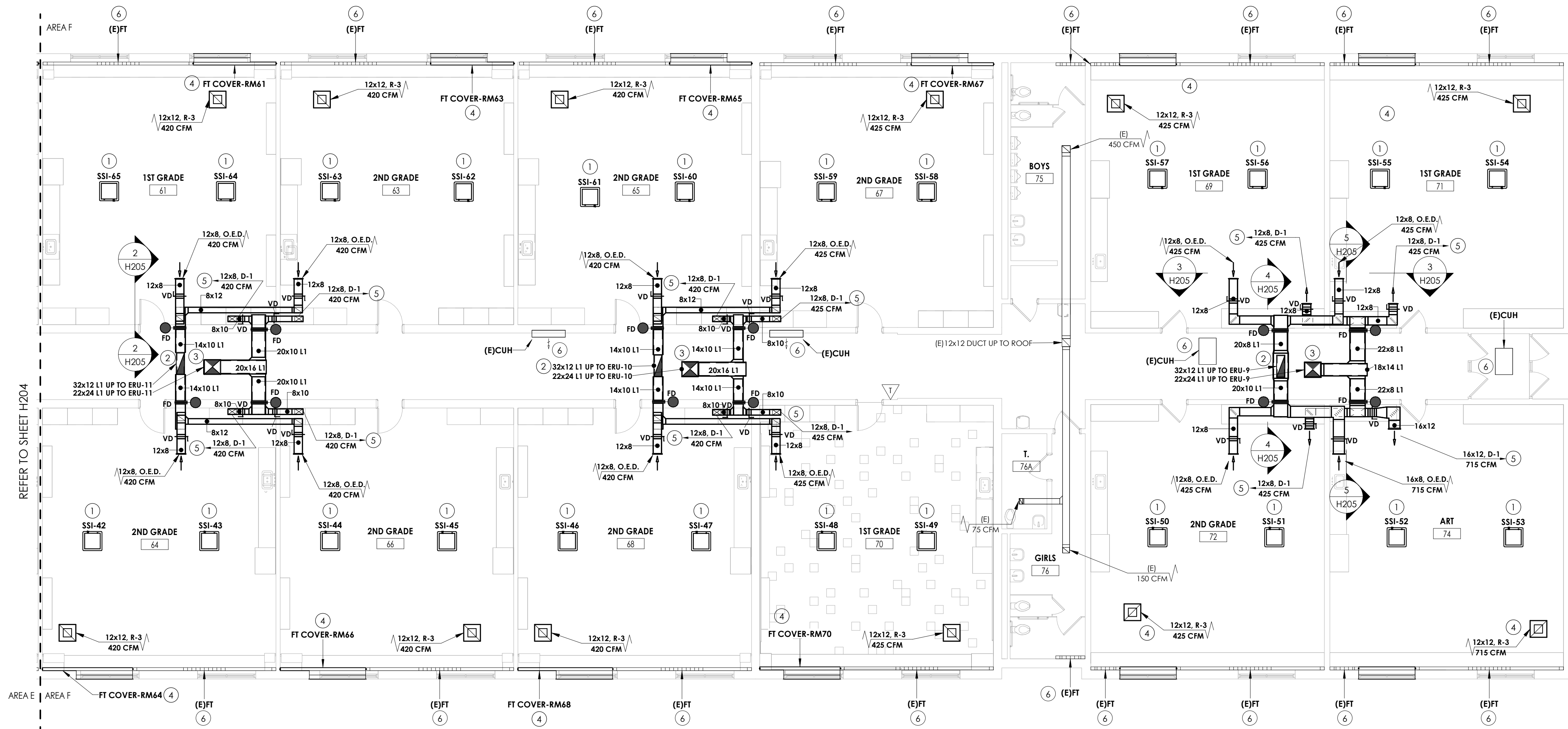
FIRST FLOOR HVAC NEW WORK PLAN- AREA F

Drawing Number

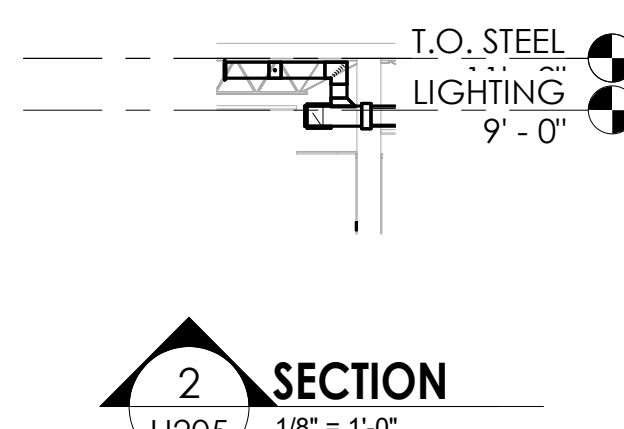
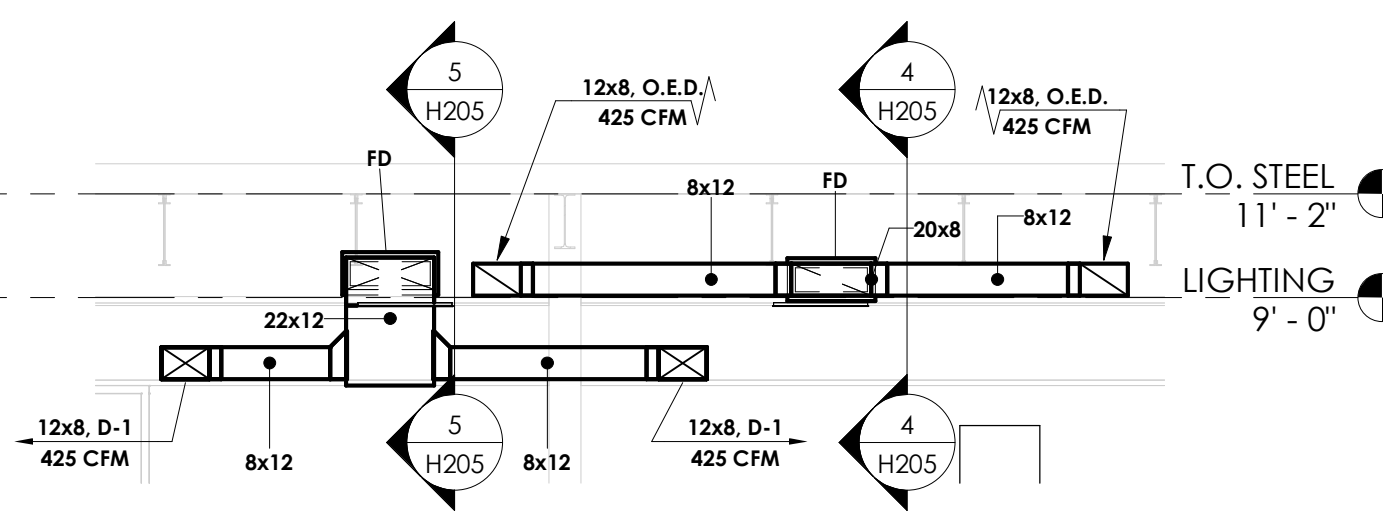
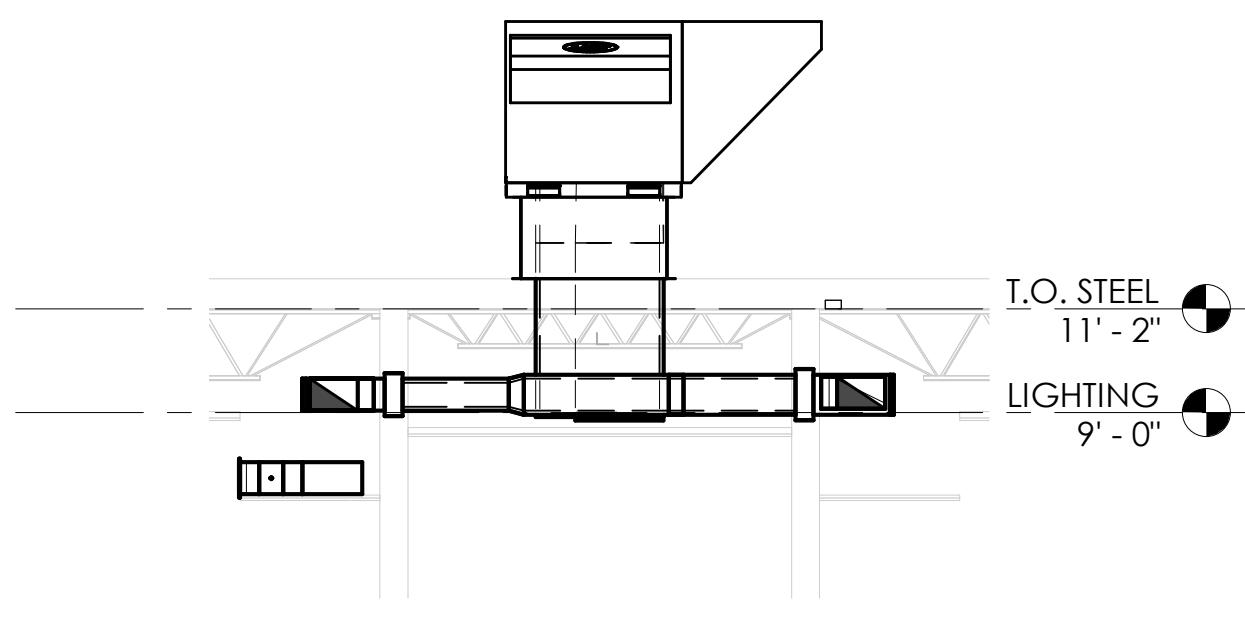
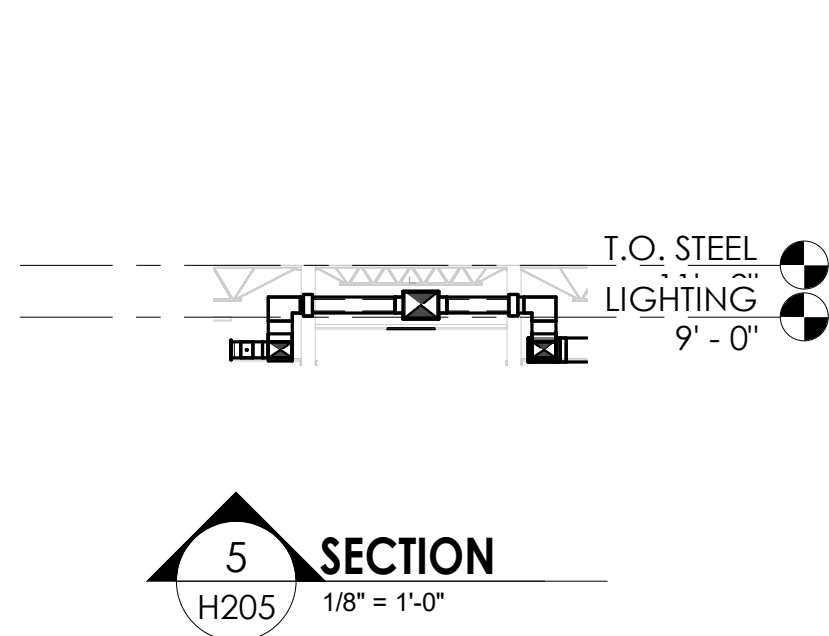
WOS
H205

KEY NOTES:

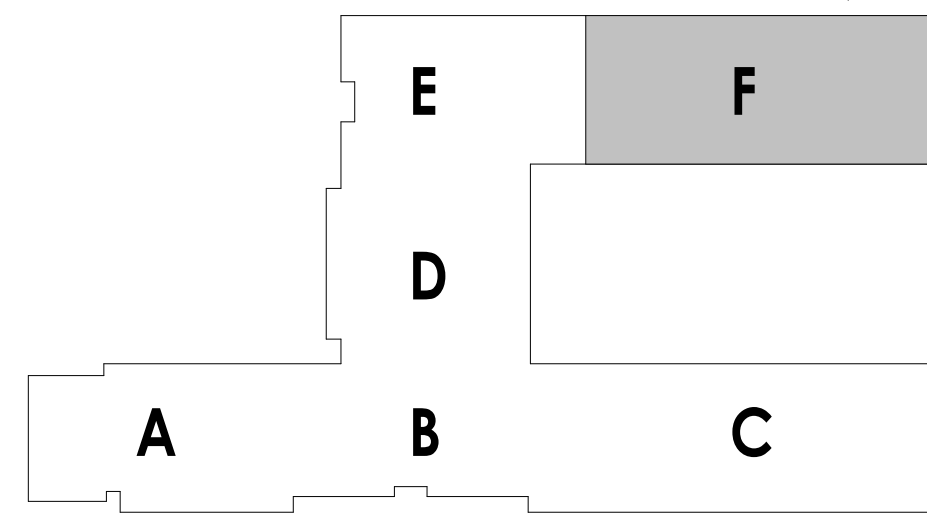
- SSI TO BE INSTALLED IN JOIST SPACE. REMOVE BRACING AS NEEDED FOR INSTALLATION. PROVIDE NEW PROVIDE NEW BRACING IN NEW LOCATION IF EXISTING BRACING IS REMOVED.
- RETURN DUCTWORK TO BE ROUTED IN HALLWAY CEILING. COORDINATE WITH EXISTING UTILITIES AND REFRIGERANT PIPING.
- SUPPLY DUCTWORK TO BE ROUTED IN CEILING. COORDINATE WITH EXISTING UTILITIES AND REFRIGERANT PIPING.
- INSTALL 4" FINNED TUBE WITH DRAFT STOP WHERE INDICATED. PROVIDE WITH COVER.
- SUPPLY DUCT TO RUN IN EXISTING SOFFIT.
- CONNECT EXISTING EQUIPMENT TO NEW BMS SYSTEM, PROVIDE NEW CONTROL VALVE OR BACNET CARD DEPENDING UPON THE TYPE OF EQUIPMENT. **BID ALTERNATE MC-01.**

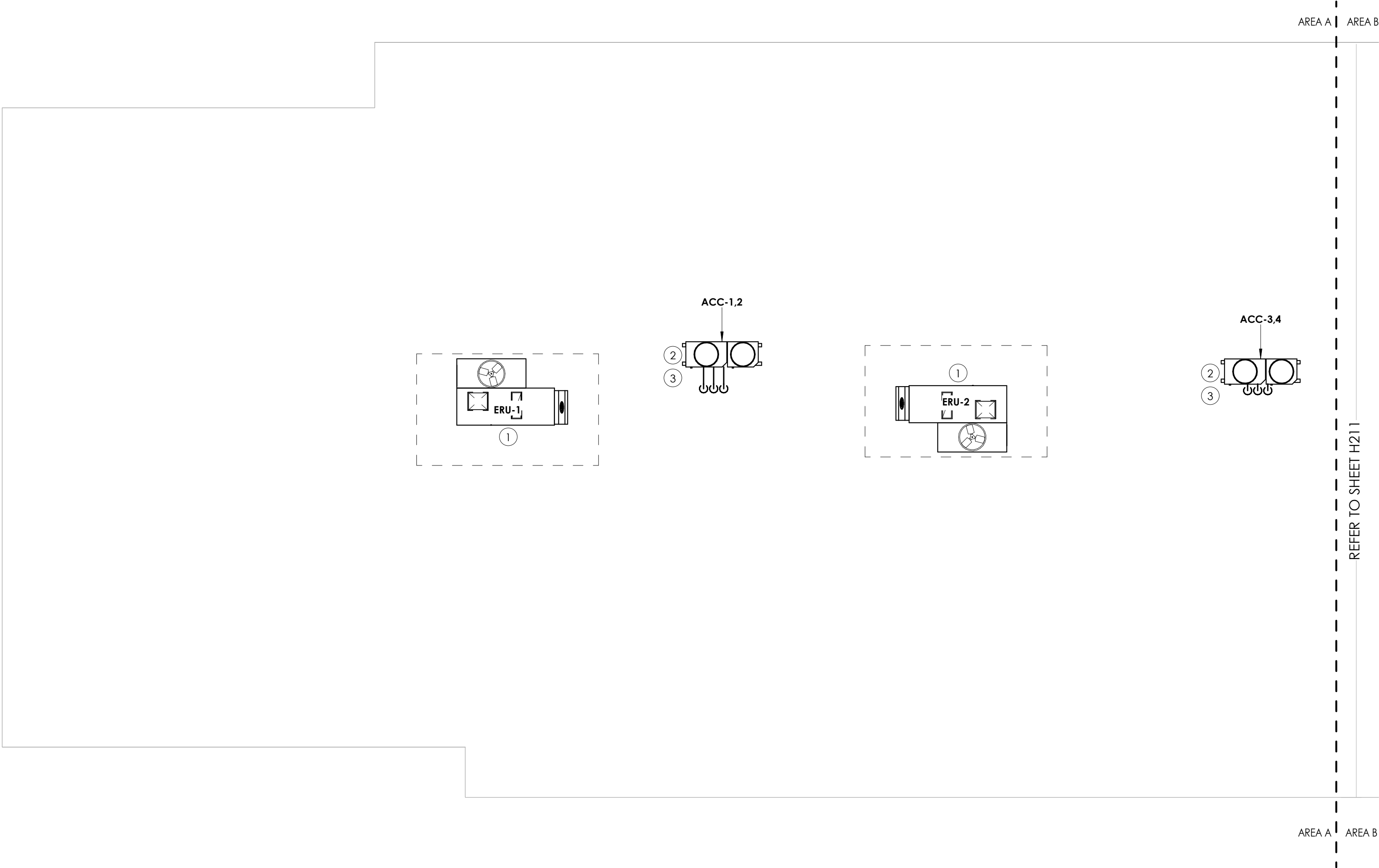


1 FIRST FLOOR HVAC NEW WORK PLAN-AREA F
1/8" = 1'-0"



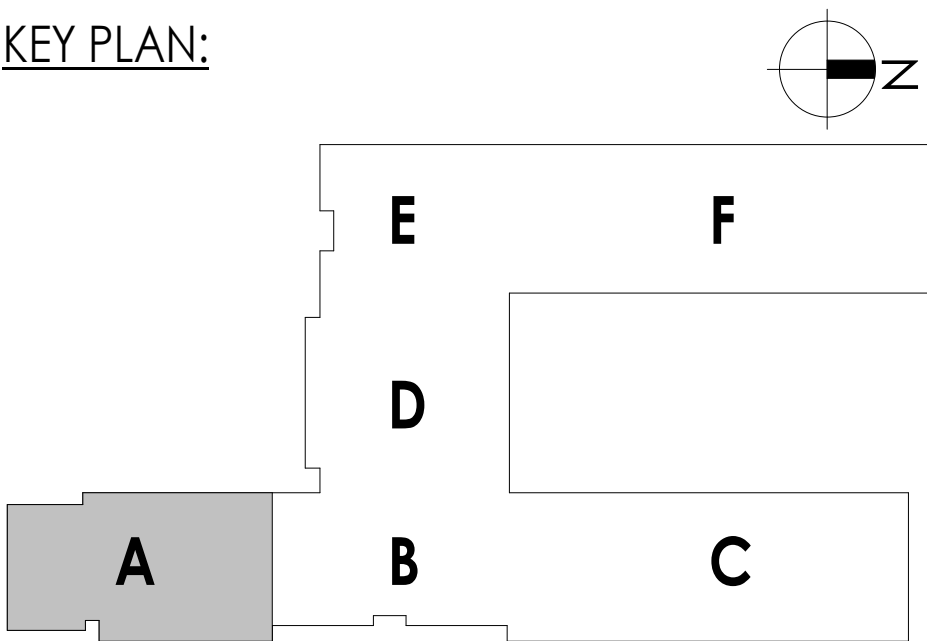
KEY PLAN:





1
H210
ROOF NEW WORK PLAN- AREA A
1/8" = 1'-0"

KEY PLAN:



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 MANUFACTURE'S INSTRUCTIONS.

CPL | Architecture Engineering Planning

50 Front Street Suite 202,
Newburgh, NY 12550
CPLearn.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#50-03-01-06-0-010-0019

COTTAGE LANE ELEMENTARY SED#50-03-01-06-0-010-0022

TAPPAN ZEE HIGH SCHOOL SED#50-03-01-06-0-004-002

WILLIAM O. SCHAFER SAL SED#50-03-01-06-0-010-0020

COTTAGE LANE SAL SED#50-03-01-06-0-010-0023

COTTAGE LANE LIBRARY SAL SED#50-03-01-06-8-003-002

WOS OUTDOOR CLASSROOM SED#50-03-01-06-7-035-001

SCONE OUTDOOR CLASSROOM SED#50-03-01-06-7-036-001

CLE OUTDOOR CLASSROOM SED#50-03-01-06-7-034-001

12HS OUTDOOR CLASSROOM SED#50-03-01-06-7-035-001

PROJECT ISSUE & REVISION SCHEDULE

No.

Date

Description

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 PERSON, UNDER THE SUPERVISION OF A LICENSED
ARCHITECT, ENGINEER OR LAND SURVEYOR, TO ALTER ANY ITEM IN ANY WAY, IN ANY FORM,
BEARING THE SEAL OF AN ARCHITECT, ENGINEER OR LAND SURVEYOR, IN THE ATTENDING
PART THEREOF, WITH THE NEW YORK SEAL AND THE SIGNATURE, HAVE BEEN FOLLOWING MY
TRUST AND FAITH AND THE DUTY OF SUCH ABANDON, AND A SPECIFIC DESCRIPTION OF THE
ALTERATION.

SHEET INFORMATION

Issued
10/18/2023

Scale
1/8" = 1'-0"

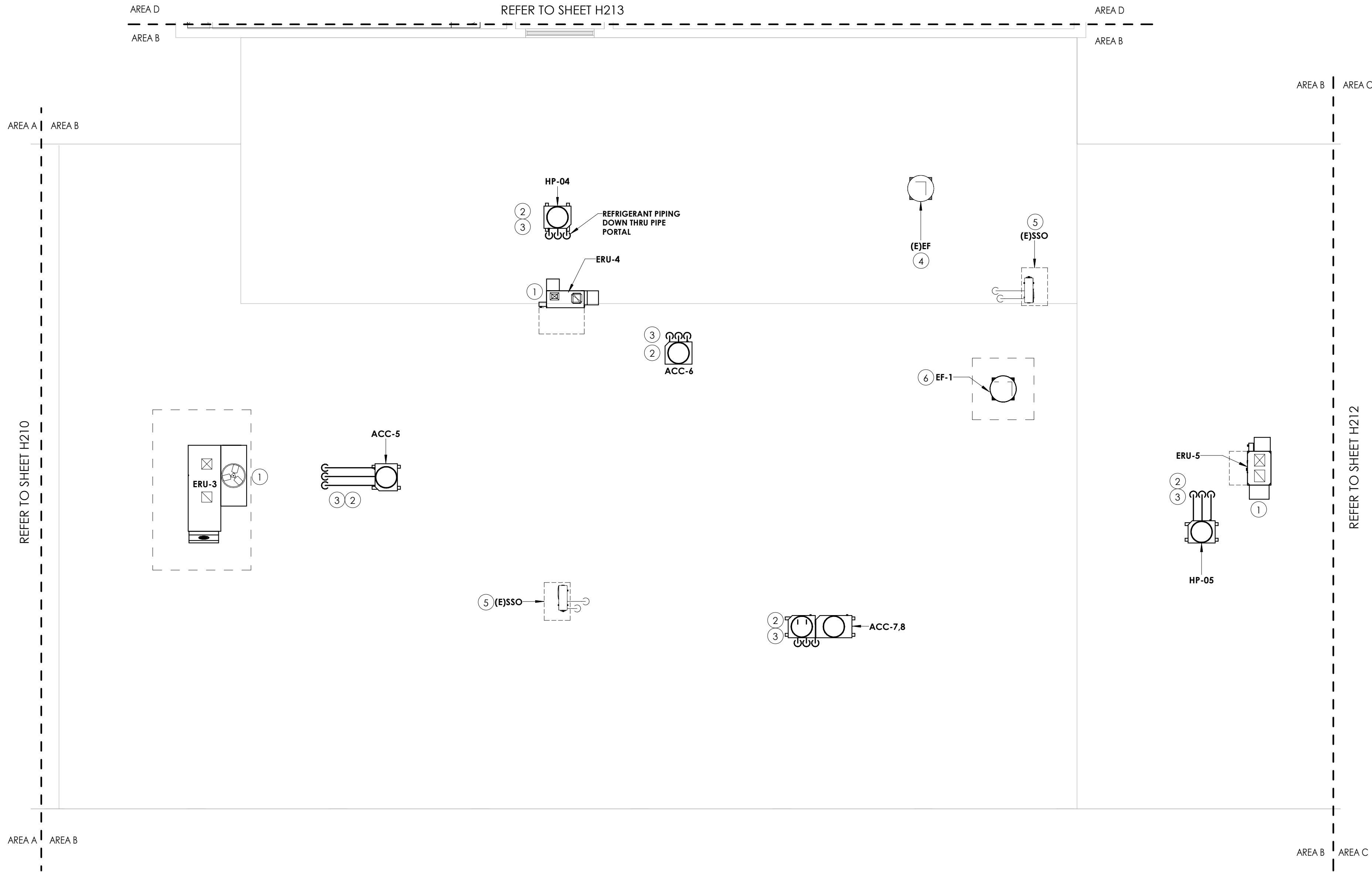
Project Status
BID DOCUMENT

Drawn By
KCM

Checked By
JJM

Drawing Title
ROOF HVAC NEW WORK
PLAN-AREA A

Drawing Number
WOS
H210



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

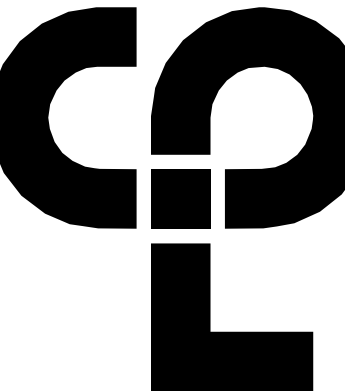
PROVIDE WITH 12" EQUIPMENT RAILS, VIBRATION INSULATION AND PIPE PORTAL.
- 3

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.



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SOUTH ORANGETOWN
Central School District



Capital Improvements Bond



Essential Infrastructure for Student
Health, Safety and Success

PROJECT INFORMATION

Project Number
14457.20

Client Name
SOUTH ORANGETOWN CENTRAL SCHOOL DISTRICT

Project Name
PHASE 1: 2022 BOND

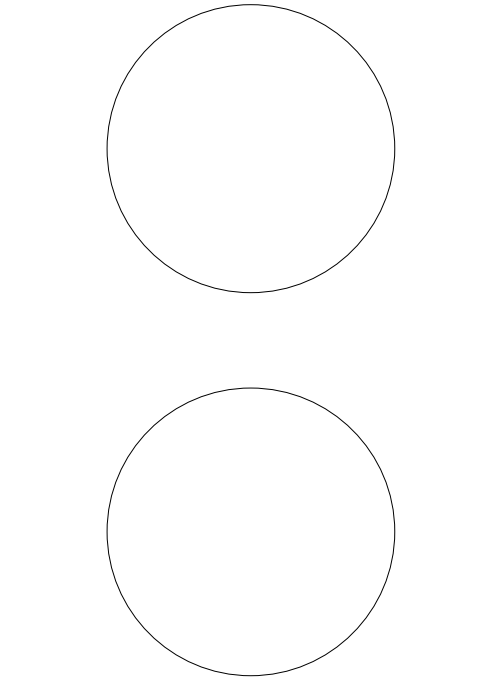
District Office Address
160 VAN WYCK RD. BLAUVELT, NY 10913

- 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#35-03-01-06-0-004-002
 - ☐ WILLIAM O. SCHAFER SAL SED#35-03-01-06-0-010-2-000
 - ☐ 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
 - ☐ 12HS OUTDOOR CLASSROOM SED#35-03-01-06-7-035-001

PROJECT ISSUE & REVISION SCHEDULE

No.	Date	Description
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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 ITA IN ANY WAY, IF AN ITA, BEARING THE SEAL OF AN ARCHITECT, ENGINEER OR LAND SURVEYOR, HAS ALLEGEDLY PERFORMED ANY OF THE FOLLOWING ACTS, THE PERSON SHALL BE HELD RESPONSIBLE FOR SUCH VIOLATION, AND A SPECIFIC DESCRIPTION OF THE VIOLATION:

SHEET INFORMATION

Issued
10/18/2023

Scale
1/8" = 1'-0"

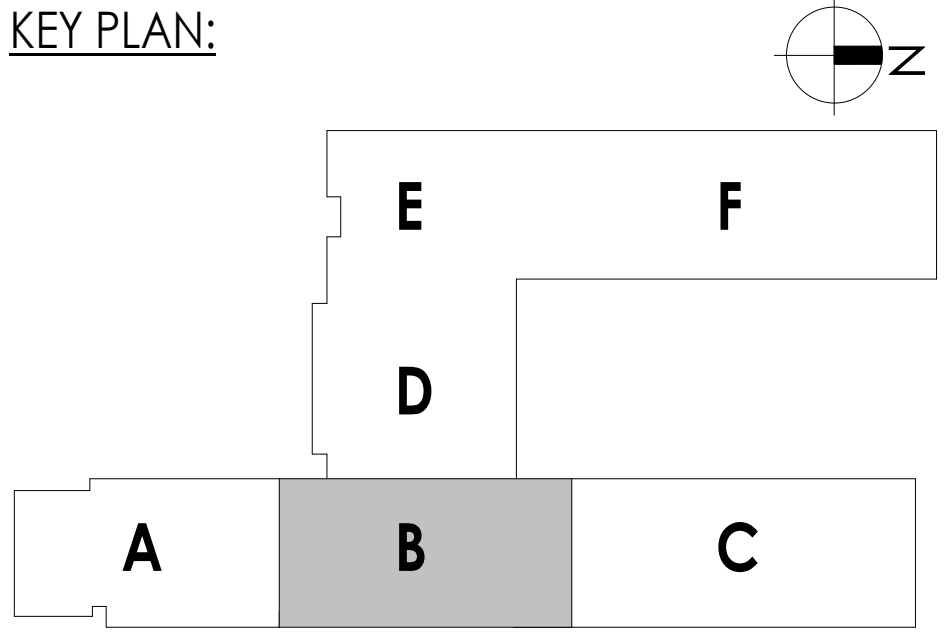
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BID DOCUMENT

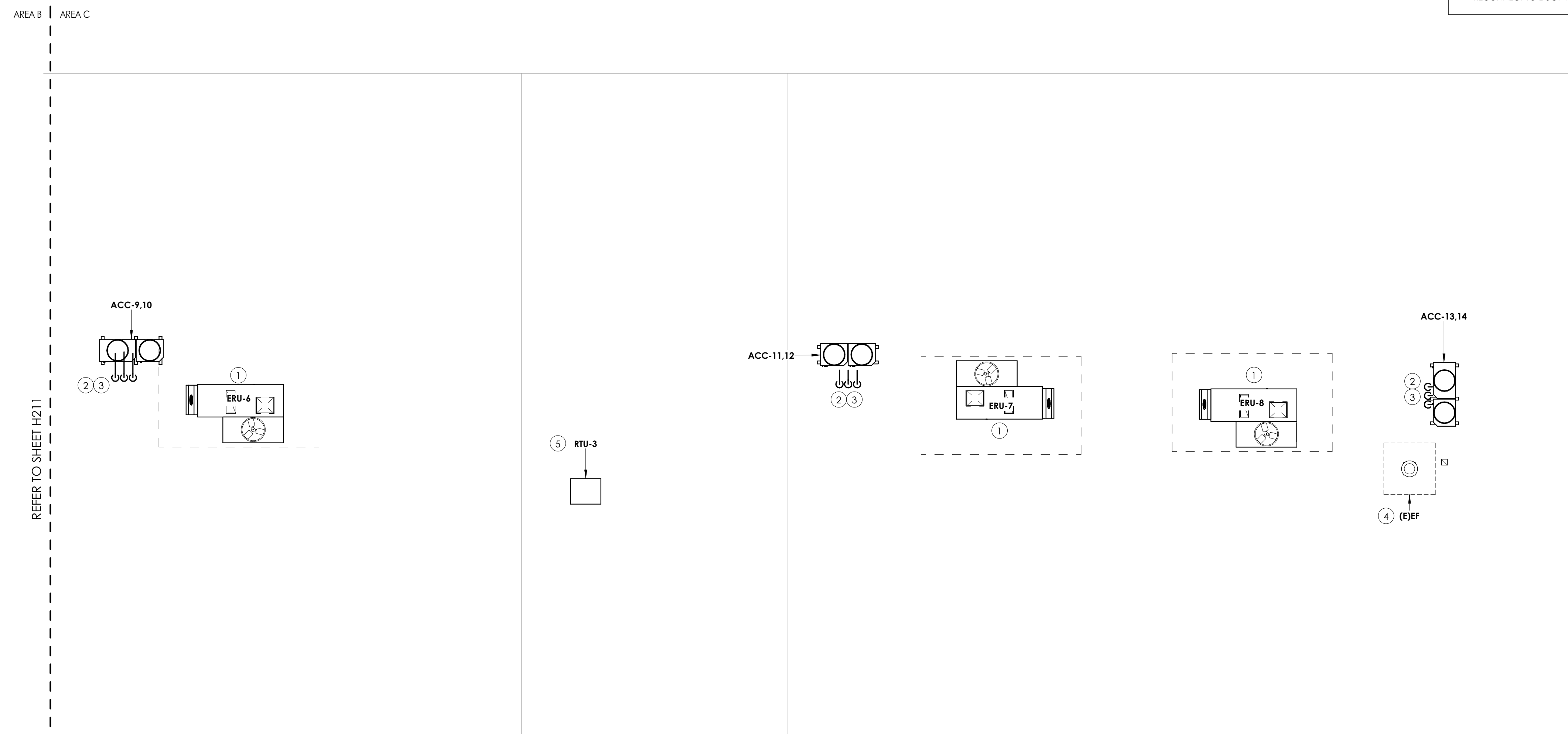
Drawn By
KCM

Checked By
JJM

Drawing Title
ROOF HVAC NEW WORK
PLAN-AREA B

Drawing Number
WOS
H211





REFER TO SHEET H211

AREA B | AREA C

AREA B | AREA C

AREA B | AREA C

1
H212

ROOF NEW WORK PLAN- AREA C

1/8" = 1'-0"

$$1/8' = 1'-0$$

GENERAL NOTES

1. MAINTAIN ALL EXISTING ROOF WARRANTIES.

KEY NOTES

- ① PROVIDE ERU UNIT ON INSULATED CURB WITH VIBRATION INSULATION.
- ② PROVIDE WITH 12" EQUIPMENT RAILS, VIBRATION INSULATION AND PIPE PORTAL.
- ③ ROUTE NEW RS/LR 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 PROVIDE RTU UNIT ON INSULATED CURB WITH VIBRATION INSULATION. RECONNECT TO DUCTWORK.

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

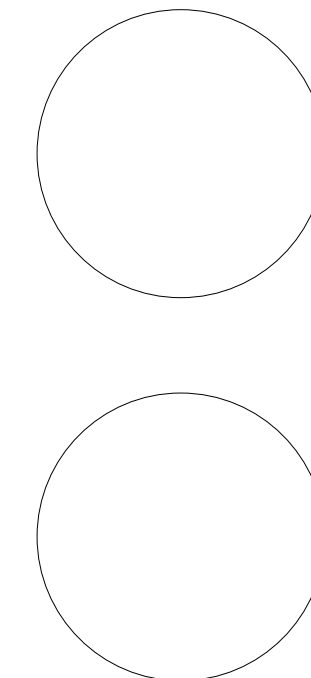
SOUTH ORANGETOWN CSD

- ☐ 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#: 50-03-01-06-0-006-032
☐ 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#: 50-03-01-06-0-023-003
☐ WOS OUTDOOR CLASSROOM SED#: 50-03-01-06-7-053-000
☐ 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#: 50-03-01-06-7-055-000

PROJECT ISSUE & REVISION SCHEDULE

No.	Date	Description
-----	------	-------------

PROFESSIONAL STAMPS



NEW YORK STATE EDUCATION STATEMENT

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SHEET INFORMATION

Issued	Scale
10/18/2023	1/8" = 1'-0"

Project Status

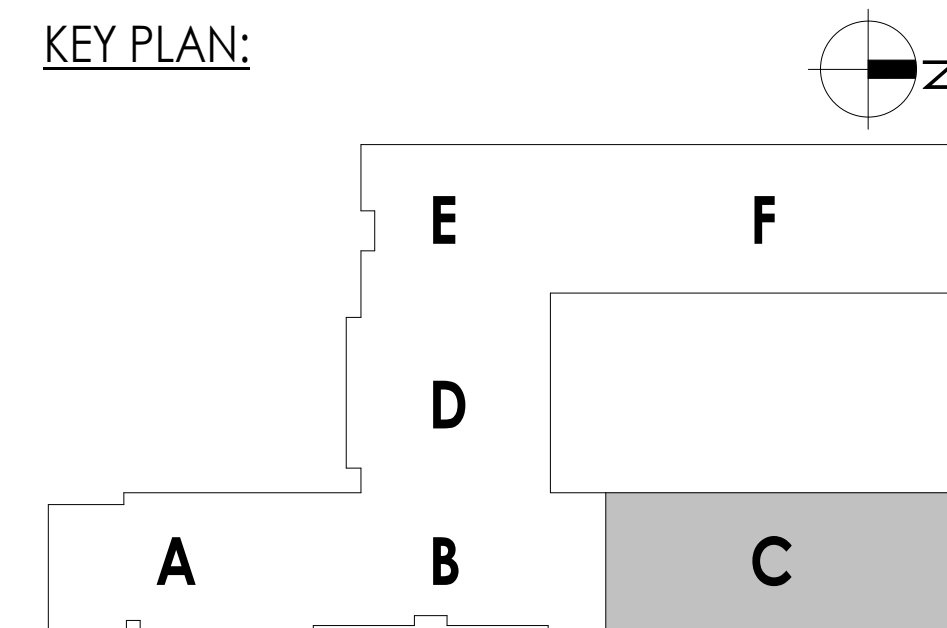
BID DOCUMENT

Drawn By	Checked By
KCM	JJM

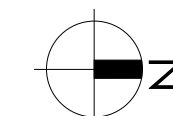
Drawing Title
ROOF HVAC NEW WORK
PLAN-AREA C

Drawing Number

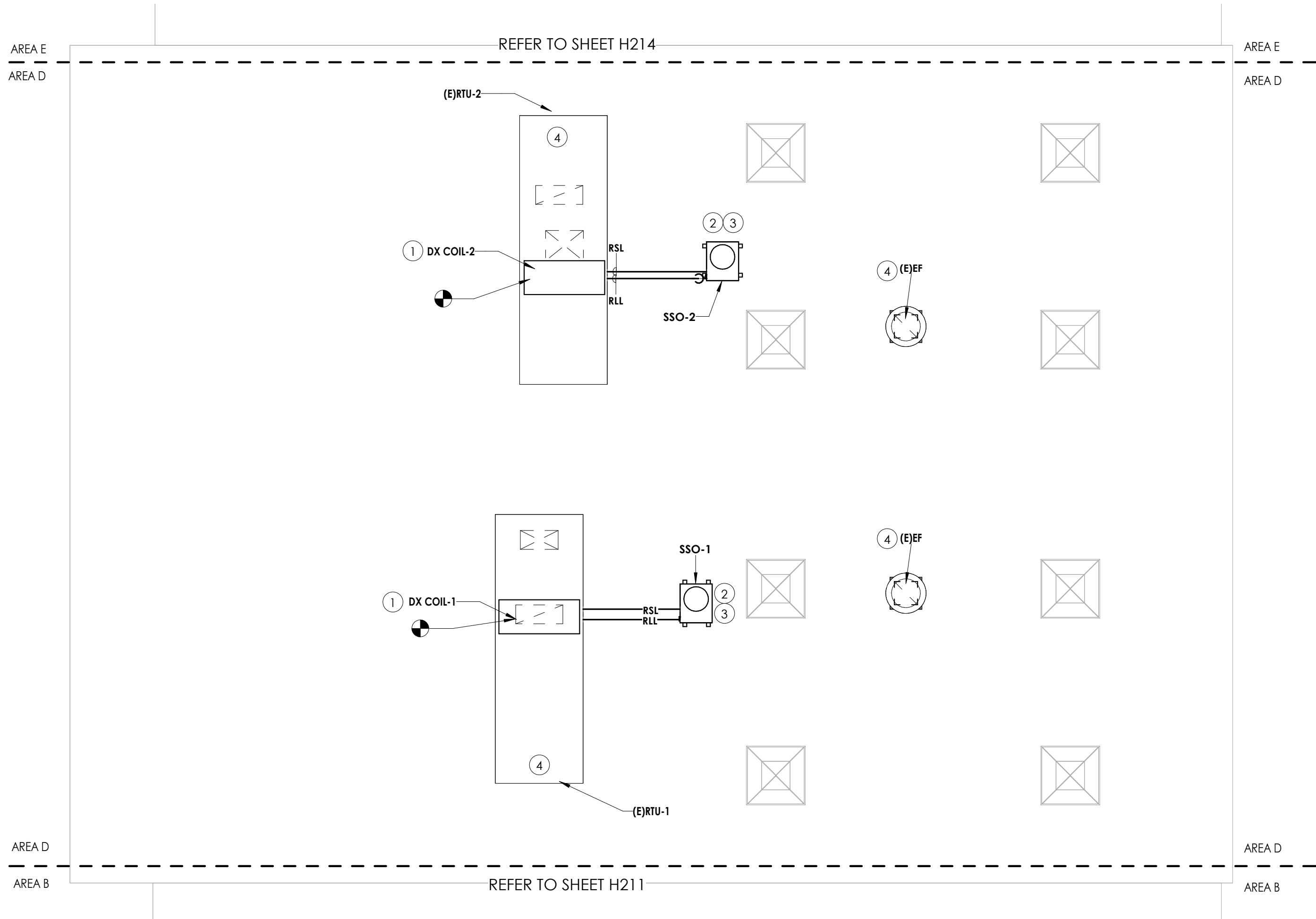
WOS
H212



KEY PLAN:



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1
H213
1/8" = 1'-0"

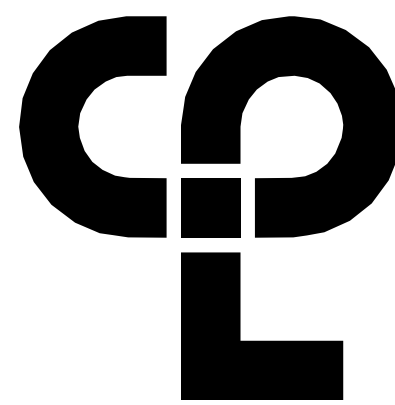
ROOF NEW WORK PLAN- AREA D

GENERAL NOTES

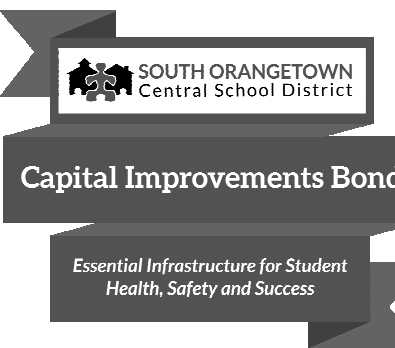
1. MAINTAIN ALL EXISTING ROOF WARRANTIES.

KEY NOTES

- ① PROVIDE DX COOLING COIL IN EXISTING UNIT. CONNECT TO NEW OUTDOOR CONDENSING UNIT. ENSURE UNIT REMAINS SEALED. REBALANCE ALL GRILLES & DIFFUSERS IN SPACES BELOW FROM THIS ADDITIONAL STATIC PRESSURE CAUSED BY NEW COIL. CONNECT NEW COOLING CONTROLS TO NEW DDC SYSTEM.
- ② PROVIDE WITH 12" EQUIPMENT RAILS AND VIBRATION INSULATION.
- ③ PROVIDE NEW OUTDOOR CONDENSING UNITS. 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.**



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Newburgh, NY 12550
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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

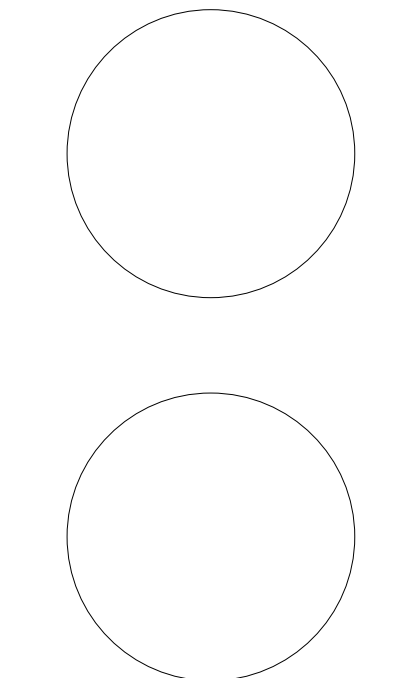
SOUTH ORANGETOWN CSD

- 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# 35-03-01-06-0-004-002
□ 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
□ TMS OUTDOOR CLASSROOM SED# 35-03-01-06-7-035-001

PROJECT ISSUE & REVISION SCHEDULE

No. Date Description

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 SUCH IN ANY WAY, IN ANY FORM, BEARING THE SEAL OF AN ARCHITECT, ENGINEER OR LAND SURVEYOR, THE ATTESTING PART SHALL VOID. I, THE SIGNER, HAVE NOT BEEN RECALLED BY THE STATE EDUCATION DEPARTMENT AND THE DATE OF SUCH ABANDON, AND A SPECIFIC DESCRIPTION OF THE ABANDON.

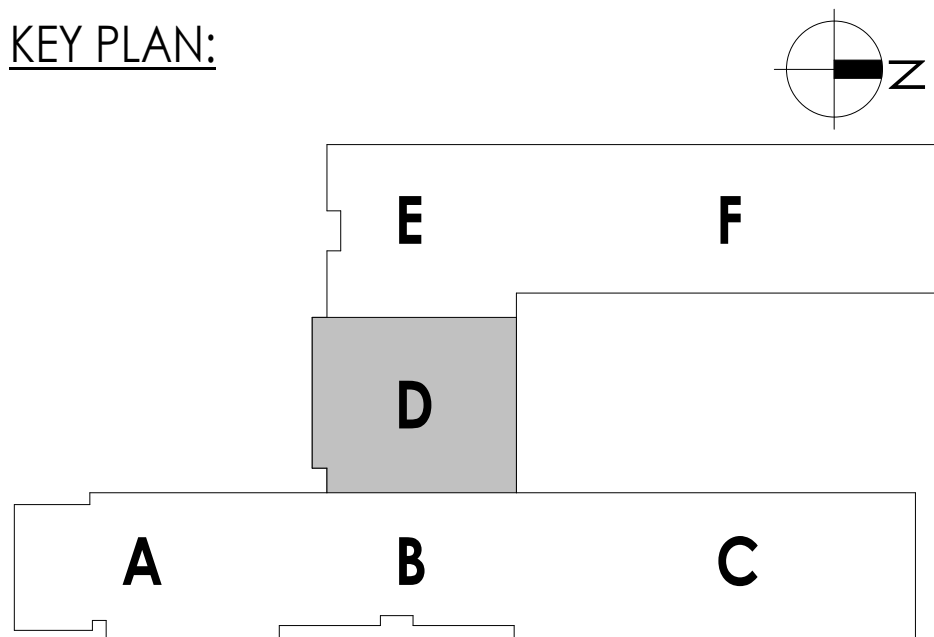
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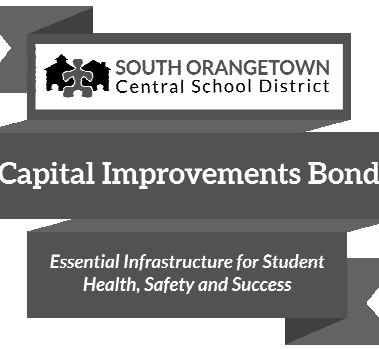
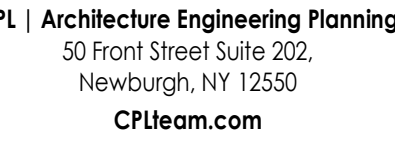
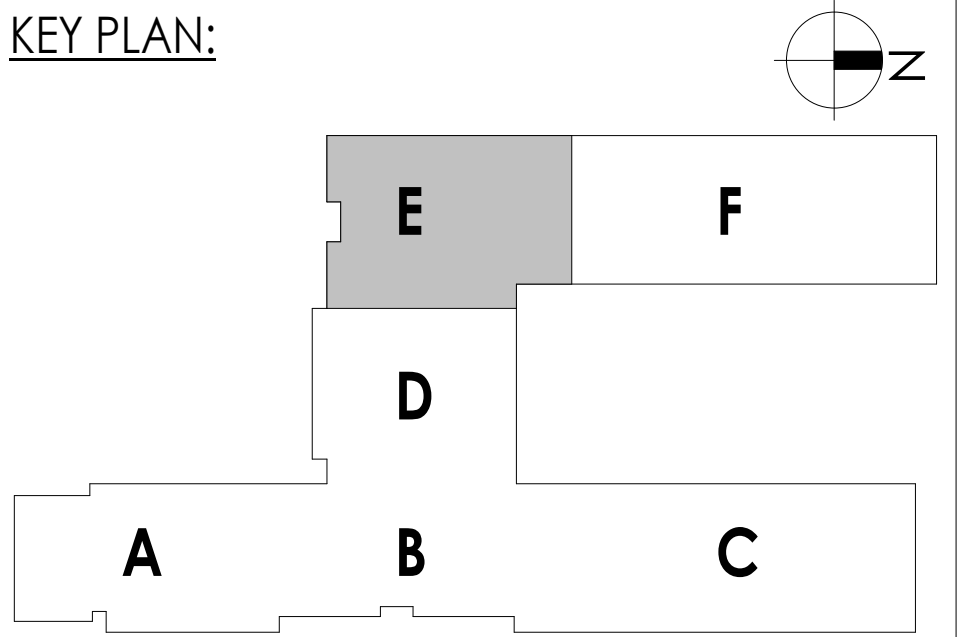
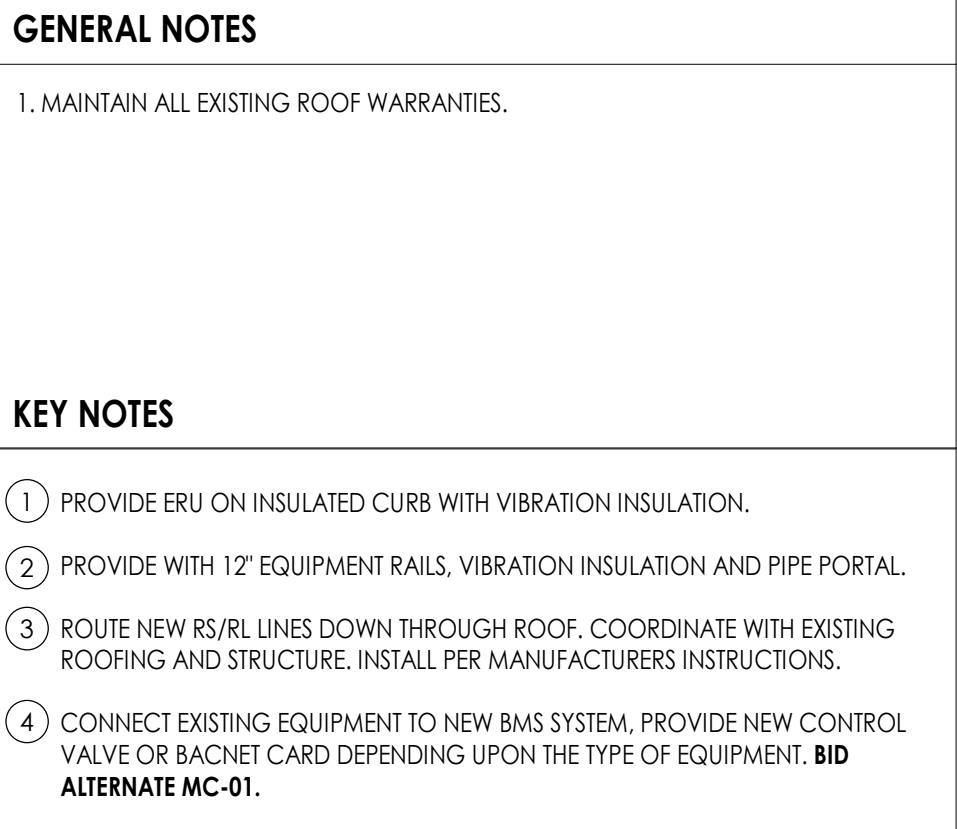
Issued
10/18/2023
Project Status
BID DOCUMENT
Drawn By
KCM
Checked By
JJM
Drawing Title
ROOF HVAC NEW WORK PLAN-AREA D

Drawing Number

**WOS
H213**

KEY PLAN:





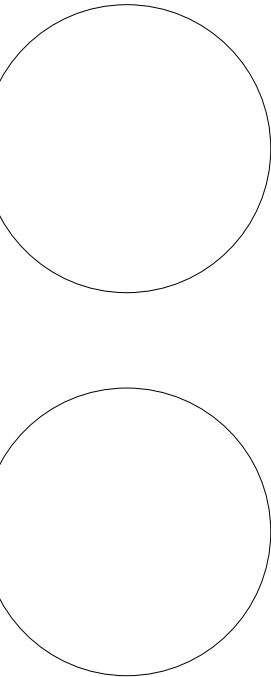
Project Number
057.20
Project Name
**SOUTH ORANGETOWN CENTRAL
SCHOOL DISTRICT**
Project Name
PAGE 1: 2022 BOND

TH ORANGETOWN CSD

- WILLIAM O. SCHAEFER SED#1: 50-03-01-06-0-012-019
COTTAGE LANE ELEMENTARY SED#1: 50-03-01-06-0-010-022
APPATAN ZEE HIGH SCHOOL SED#1: 50-03-01-06-0-006-032
WILLIAM O. SCHAEFER S&L SED#1: 50-03-01-06-0-012-020
COTTAGE LANE S&L SED#1: 50-03-01-06-0-010-023
COTTAGE LANE LIBRARY S&L SED#1: 50-03-01-06-8-023-022
OWS OUTDOOR CLASSROOM SED#1: 50-03-01-06-7-053-00
OWS OUTDOOR CLASSROOM SED#1: 50-03-01-06-7-056-01
CLE OUTDOOR CLASSROOM SED#1: 50-03-01-06-7-054-01
ZHS OUTDOOR CLASSROOM SED#1: 50-03-01-06-7-055-00

PROJECT ISSUE & REVISION SCHEDULE

PROFESSIONAL STAMPS



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 IS THE SEAL OF AN ARCHITECT, ENGINEER OR SURVEYOR IS ALTERED. THE ALTERING SHALL APPEAR TO THE ITEM THEIR SEAL AND THE NOTATION "ALTERED BY" FOLLOWED BY SIGNATURE AND THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

18/2023
Scale
1/8" = 1'-0"

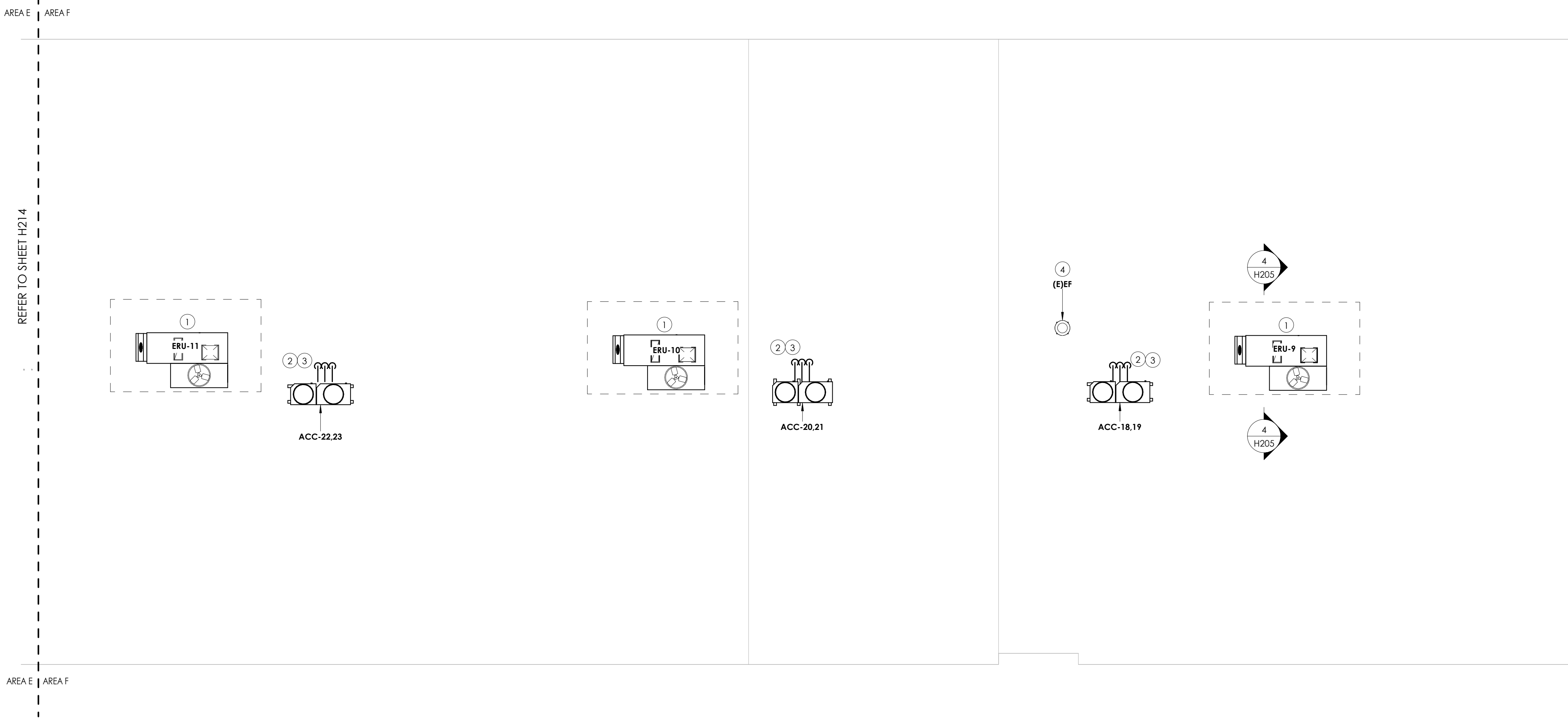
ct Status
DOCUMENT

on By
Checked By
JJM

ing Title
DOOF HVAC NEW WORK
AN-AREA E

wing Number

NOS
H214



1
H215
ROOF NEW WORK PLAN- AREA F
1/8" = 1'-0"

GENERAL NOTES

1. MAINTAIN ALL EXISTING ROOF WARRANTIES.

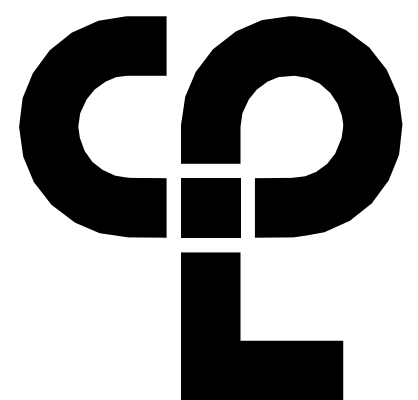
KEY NOTES

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 BAS SYSTEM. PROVIDE NEW CONTROL VALVE OR BAGNET CARD DEPENDING UPON THE TYPE OF EQUIPMENT. BID ALTERNATE MC-01.



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SOUTH ORANGETOWN
Central School District

Capital Improvements Bond

Essential Infrastructure for Student
Health, Safety and Success

PROJECT INFORMATION

Project Number
14457.20

Client Name
**SOUTH ORANGETOWN CENTRAL
SCHOOL DISTRICT**

Project Name
PHASE 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# 50-03-01-06-0-004-002
- ☐

WILLIAM O. SCHAFER SAL SED# 50-03-01-06-0-010-2-020
- ☐

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# 50-03-01-06-7-035-001
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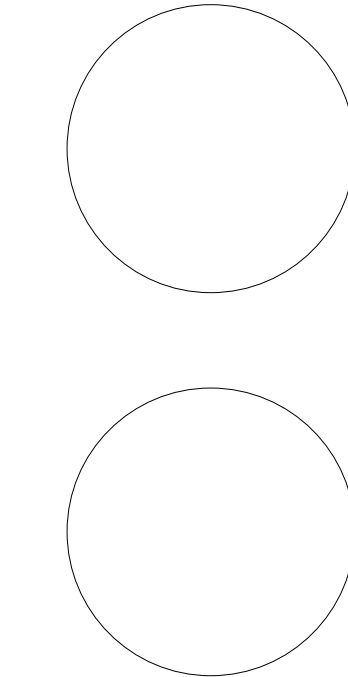
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- ☐

12HS OUTDOOR CLASSROOM SED# 50-03-01-06-7-035-001

PROJECT ISSUE & REVISION SCHEDULE

No.	Date	Description
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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 PERSON, UNDER ACTING UNDER THE DIRECTION OF A LICENSED
ARCHITECT, ENGINEER OR LAND SURVEYOR, TO ACT AS AN ITIN IN ANY WAY, IF ANY ITIN.
BEARING THE SEAL OF AN ARCHITECT, ENGINEER OR LAND SURVEYOR, BEING THE ATTORNEY,
PARTY SIGNING THIS TO THE NEW YORK STATE AND THE ARCHITECT, ENGINEER OR LAND SURVEYOR BY
THEIR SIGNATURE AND THE DATE OF SUCH ABANDON, AND A SPECIFIC DESCRIPTION OF THE
ABANDON.

SHEET INFORMATION

Issued
10/18/2023

Scale
1/8" = 1'-0"

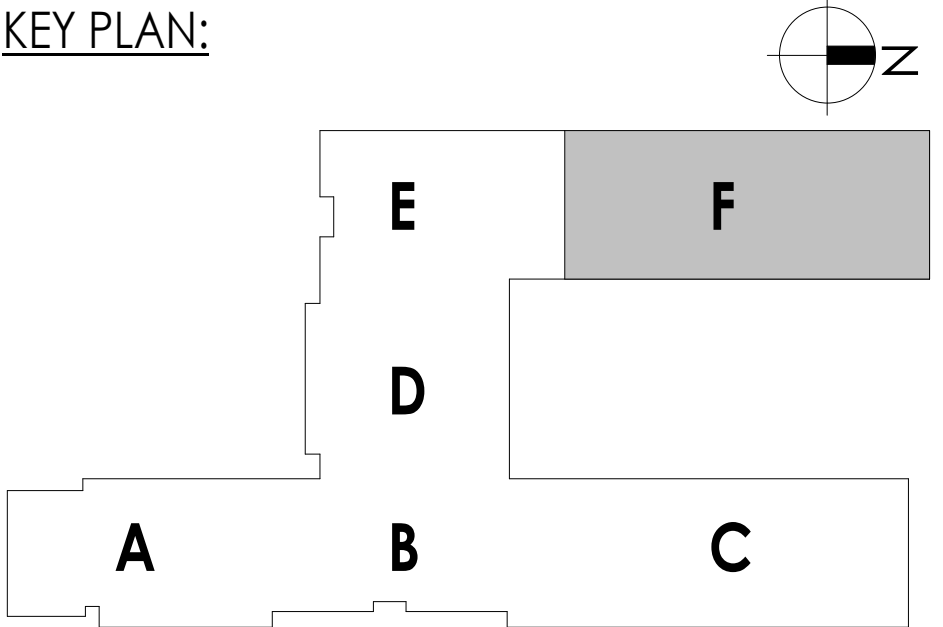
Project Status
BID DOCUMENT

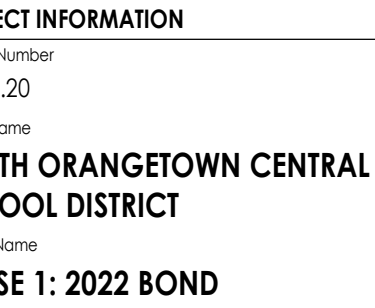
Drawn By
KCM

Checked By
JJM

Drawing Title
ROOF HVAC NEW WORK
PLAN-AREA F

Drawing Number
**WOS
H215**



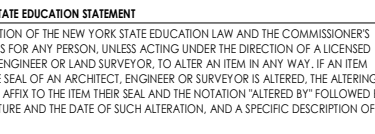


Office Address
AN WYCK RD. BLAUVELT, NY 10913

ORANGETOWN CSD
JAM O. SCHAEFER SED#: 50-03-01-06-0-012-019
TAGE LANE ELEMENTARY SED#: 50-03-01-06-0-010-022
PAN ZEE HIGH SCHOOL SED#: 50-03-01-06-0-006-032
JAM O. SCHAEFER S&L SED#: 50-03-01-06-0-012-020
TAGE LANE S&L SED#: 50-03-01-06-0-010-023
TAGE LANE LIBRARY S&L SED#: 50-03-01-06-8-025-002
OUTDOOR CLASSROOM SED#: 50-03-01-06-7-035-001
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EFFECT ISSUE & REVISION SCHEDULE	
Date	Description

PROFESSIONAL STAMPS

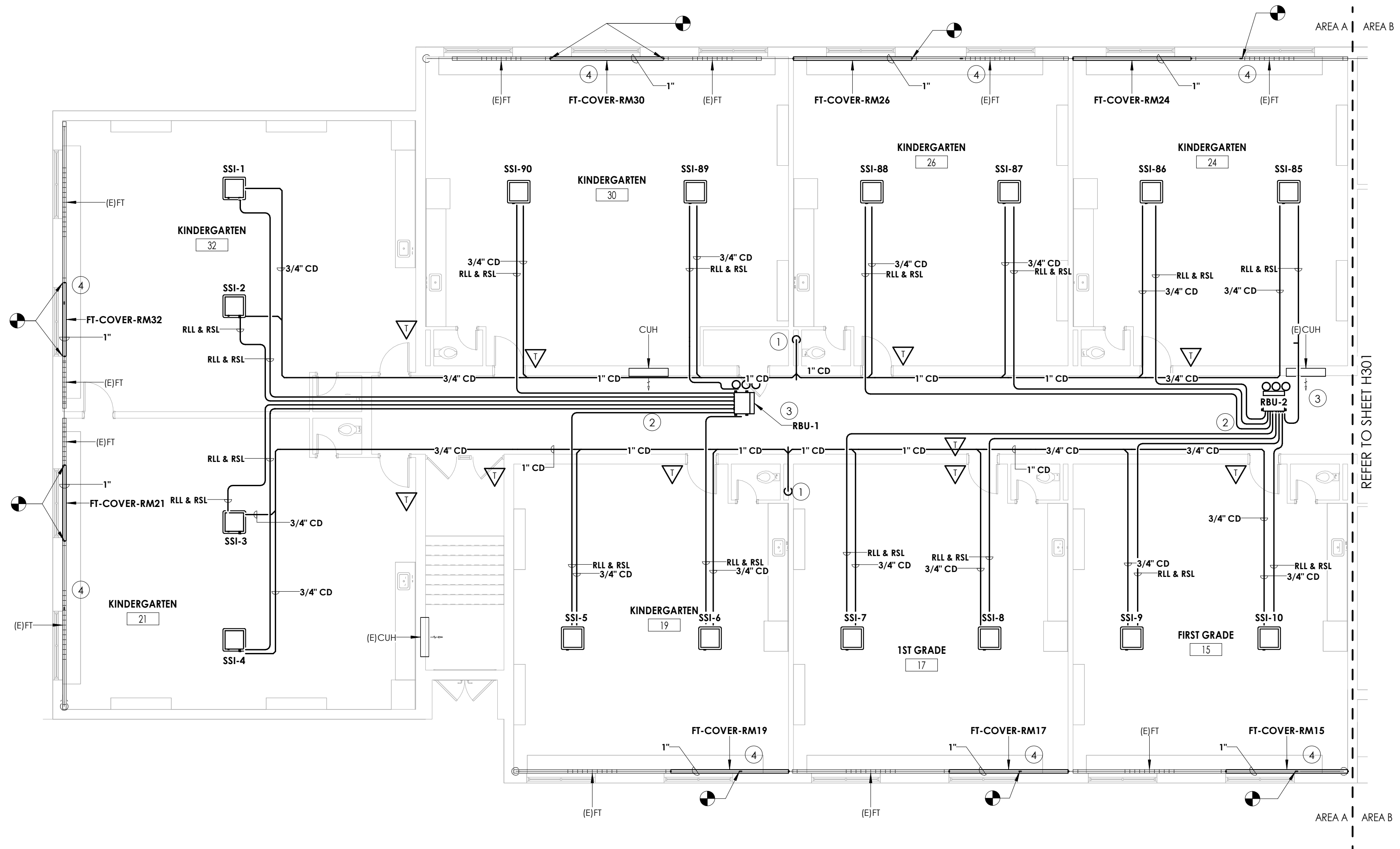


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Scale	1/8" = 1'-0"
Year	2023
Status	
DOCUMENT	
Checked By	JJM
Title	
FLOOR HVAC PIPING PLAN	
A A	

Number
WOS
H300

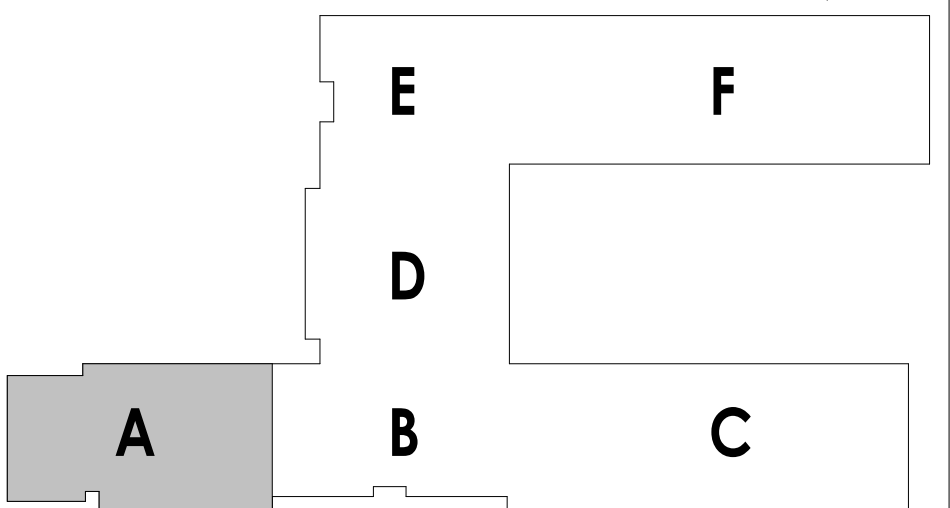
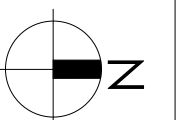
KEY NOTES:

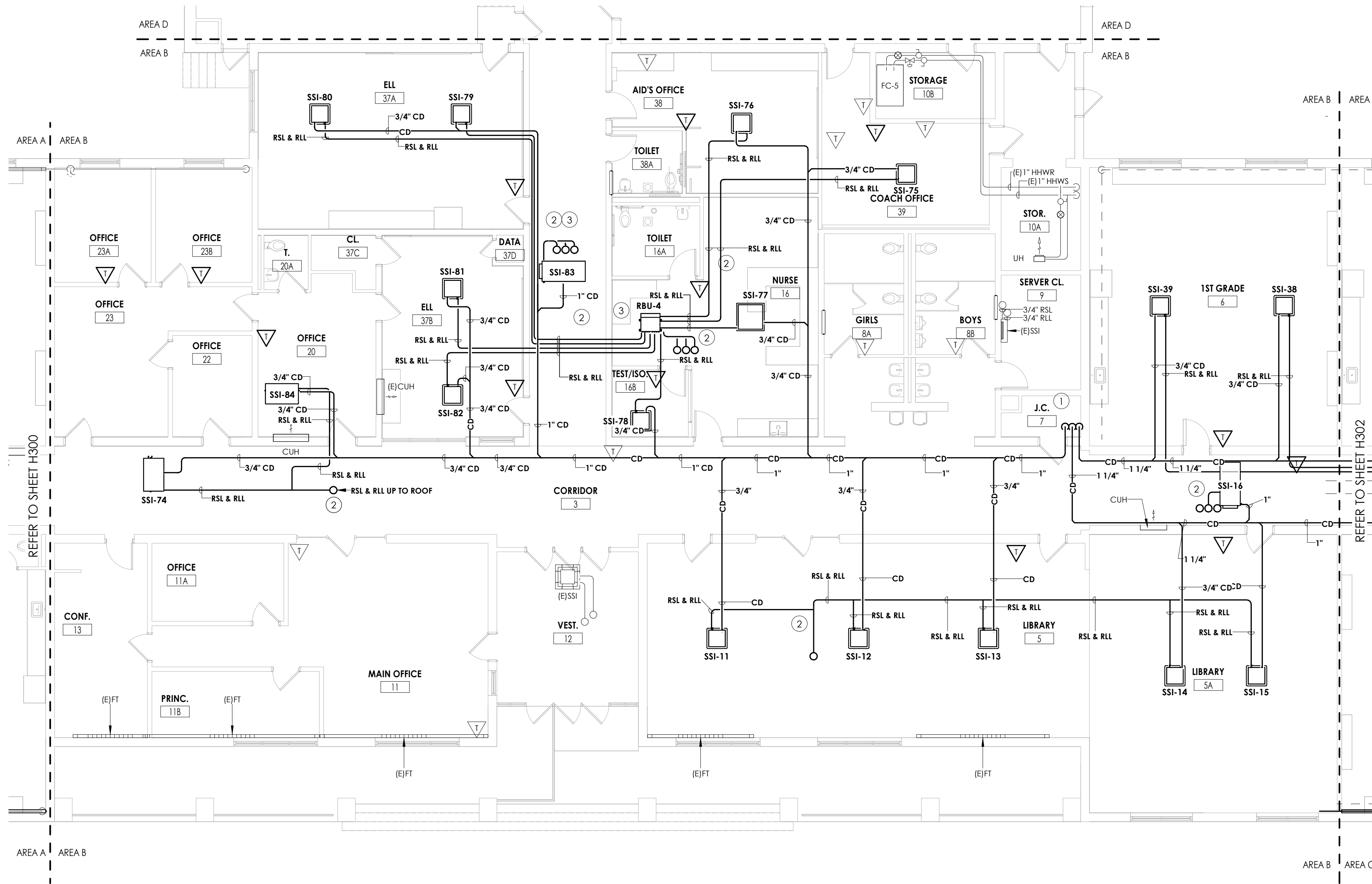
- ① EXTEND CONDENSATE PIPING TO SANITARY. PROVIDE WITH AN INDIRECT CONNECTION.
- ② PROVIDE PIPING SIZING AND ROUTING, REFER TO MANUFACTURER'S RECOMMENDATIONS.
- ③ PROVIDE BRANCH BOX. MOUNT UNIT AS HIGH AS POSSIBLE. COORDINATE PIPE ROUTING WITH DUCTWORK AND EXISTING STRUCTURE.
- ④ PROVIDE PIPING TO COMPLETE HEATING LOOP. FIELD VERIFY PIPE SIZE. PROVIDE COVER AND COORDINATE ENCLOSURE WITH CASEWORK.



1 HVAC PIPING PLAN-AREA A
H300 1/8" = 1'-0"

KEY PLAN:



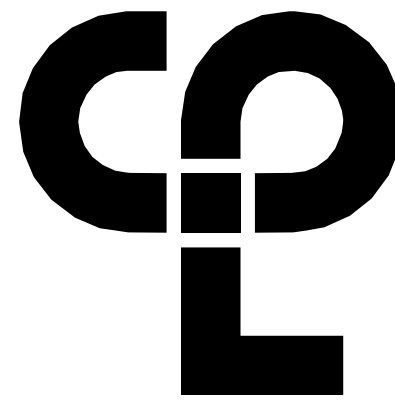
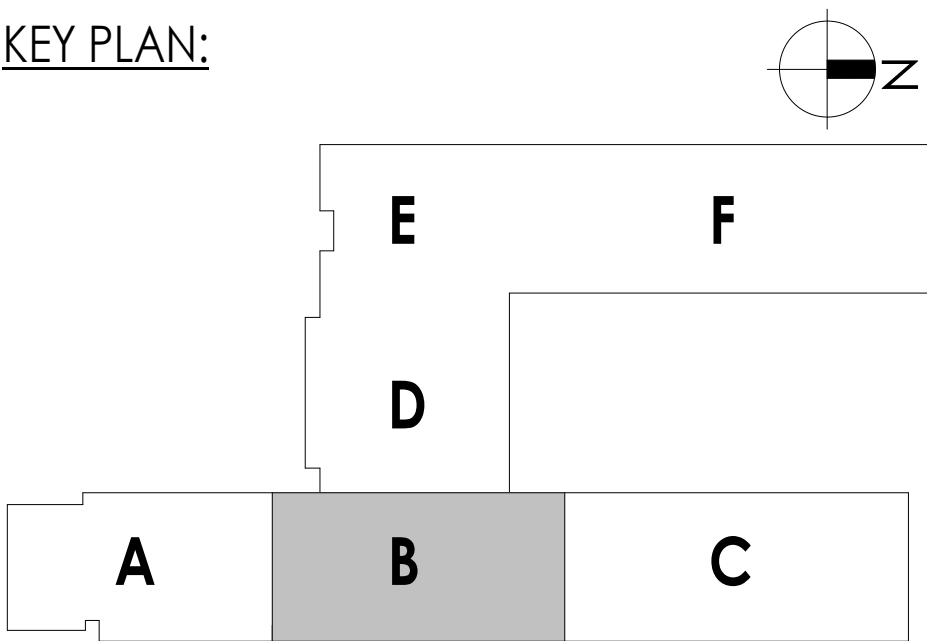


1
H301
HVAC PIPING PLAN-AREA B
1/8" = 1'-0"

KEY NOTES:

- 1 EXTEND CONDENSATE PIPING TO SANITARY. PROVIDE WITH AN INDIRECT CONNECTION.
- 2 PROVIDE PIPING SIZING AND ROUTING, REFER TO MANUFACTURER'S RECOMMENDATIONS.
- 3 PROVIDE BRANCH BOX. MOUNT UNIT AS HIGH AS POSSIBLE. COORDINATE PIPE ROUTING WITH DUCTWORK AND EXISTING STRUCTURE.

KEY PLAN:



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50 Front Street Suite 202,
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CPLteam.com



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

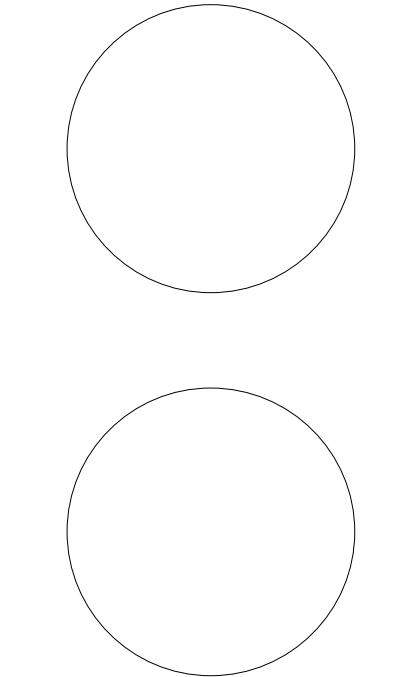
SOUTH ORANGETOWN CSD

- WILLIAM O. SCHAFER SED# 35-03-01-06-0-010-010
- COTTAGE LANE ELEMENTARY SED# 35-03-01-06-0-010-022
- TAPPAN ZEE HIGH SCHOOL SED# 35-03-01-06-0-004-002
- 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
- SCANS OUTDOOR CLASSROOM SED# 35-03-01-06-7-036-001
- CLE OUTDOOR CLASSROOM SED# 35-03-01-06-7-034-001
- 1245 OUTDOOR CLASSROOM SED# 35-03-01-06-7-035-001

PROJECT ISSUE & REVISION SCHEDULE

No. Date Description

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 ACTING UNDER THE DIRECTION 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, THE SIGNATURE, PRINT NAME AND THE NEW YORK SEAL AND THE SIGNATURE, PRINT NAME, PRINTED NAME, THEIR SIGNATURE AND THE DATE OF SUCH AVOIDANCE, AND A SPECIFIC DESCRIPTION OF THE AVOIDANCE.

SHEET INFORMATION

Issued

10/18/2023

Project Status

BID DOCUMENT

Drawn By

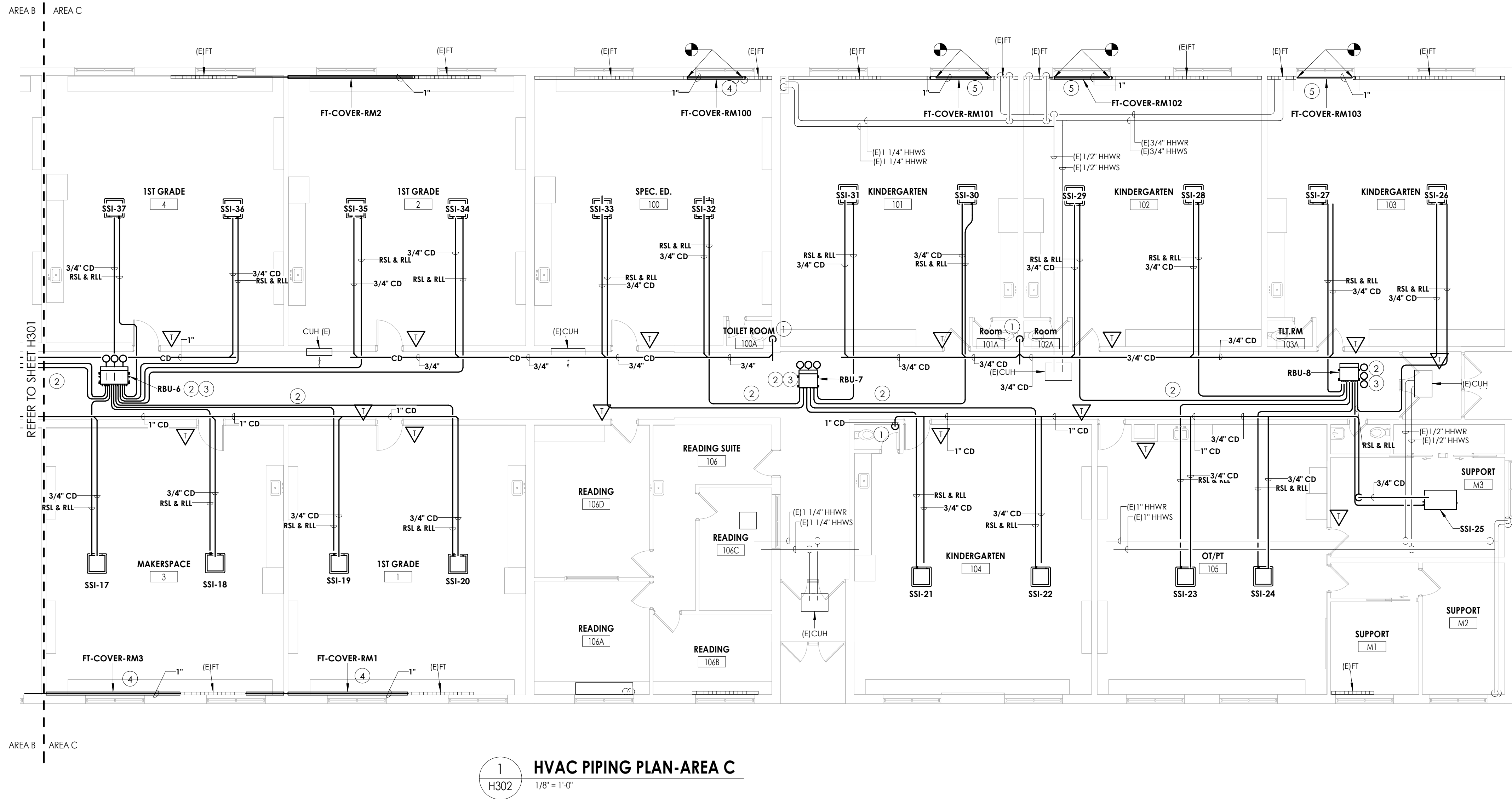
KCM

Drawing Title

FIRST FLOOR HVAC PIPING PLAN-
AREA B

Drawing Number

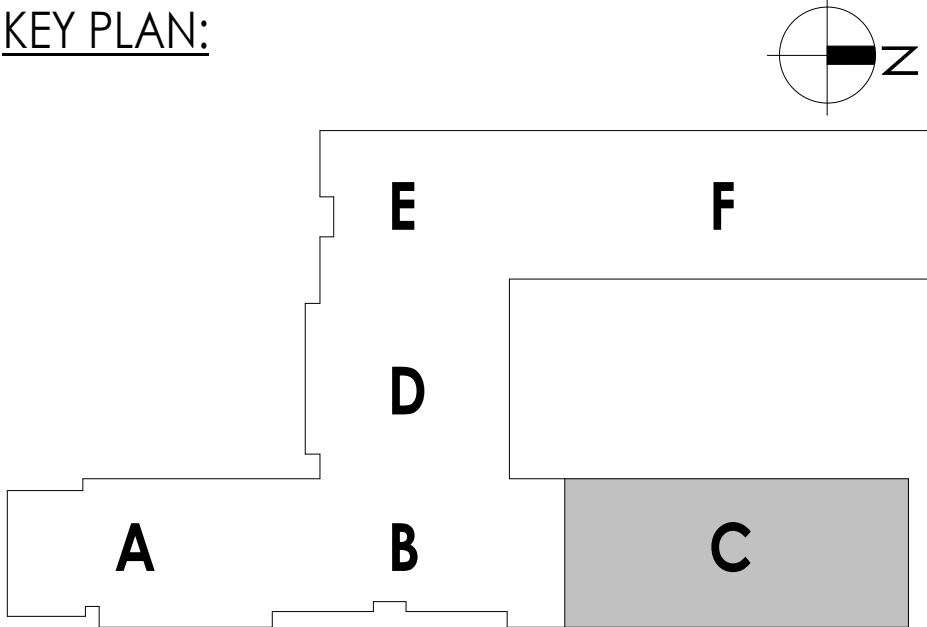
**WOS
H301**



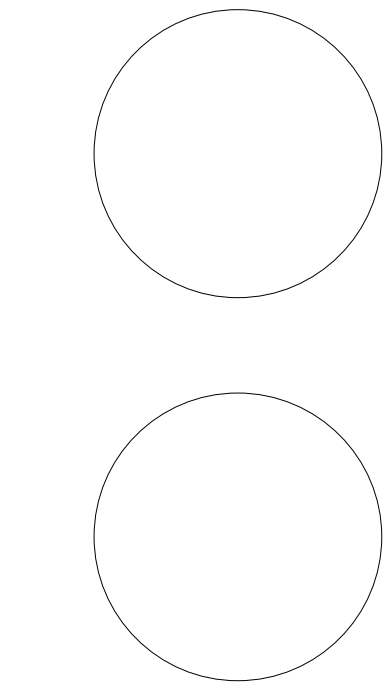
1
H302
HVAC PIPING PLAN-AREA C
1/8" = 1'-0"

- KEY NOTES:**
- 1 EXTEND CONDENSATE PIPING TO SANITARY. PROVIDE WITH AN INDIRECT CONNECTION.
 - 2 PROVIDE PIPING SIZING AND ROUTING, REFER TO MANUFACTURER'S RECOMMENDATIONS.
 - 3 PROVIDE BRANCH BOX. MOUNT UNIT AS HIGH AS POSSIBLE. COORDINATE PIPE ROUTING WITH DUCTWORK AND EXISTING STRUCTURE.
 - 4 PROVIDE PIPING TO COMPLETE HEATING LOOP. FIELD VERIFY PIPE SIZE. PROVIDE COVER AND COORDINATE ENCLOSURE WITH CASEWORK. **BID ALTERNATE MC-02: DO NOT PROVIDE COVER.**

KEY PLAN:

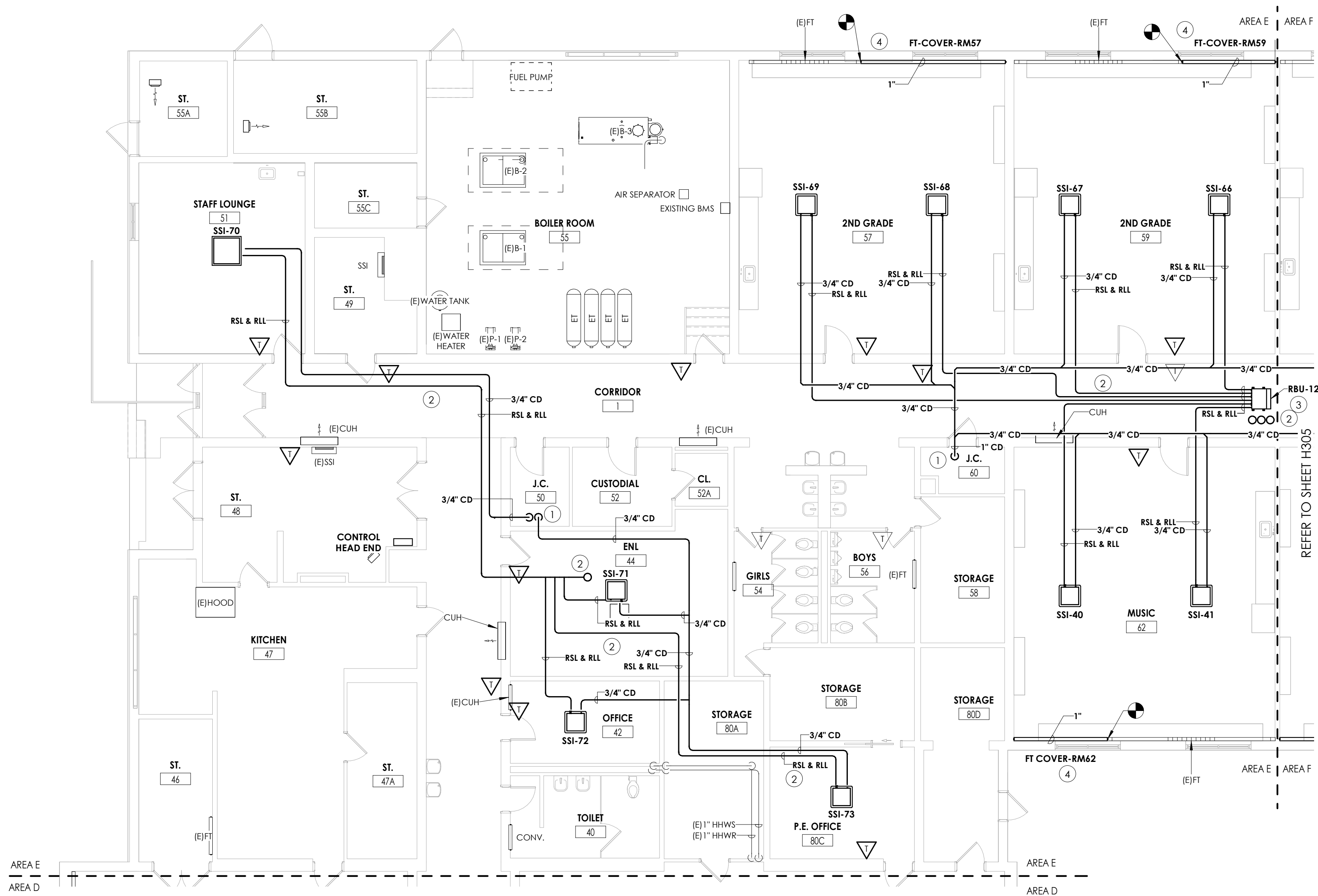


PROFESSIONAL STAMPS



NEW YORK STATE EDUCATION STATUTE
IT IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND THE COMMISSIONER'S REGULATIONS FOR ANY PERSON, UNDER ACTING UNDER THE DIRECTION OF A LICENSED ARCHITECT, ENGINEER OR LAND SURVEYOR, TO ALTER ANY ITEM IN ANY WAY, IF AN ITEM, BEARING THE SEAL OF AN ARCHITECT, ENGINEER OR LAND SURVEYOR, IS USED IN THE ATTENDING PLAN, SPEC, AND/OR THE NEW YORK STATE AND THE ARCHITECTURE, ENGINEERING OR LAND SURVEYING, THEIR SIGNATURE AND THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

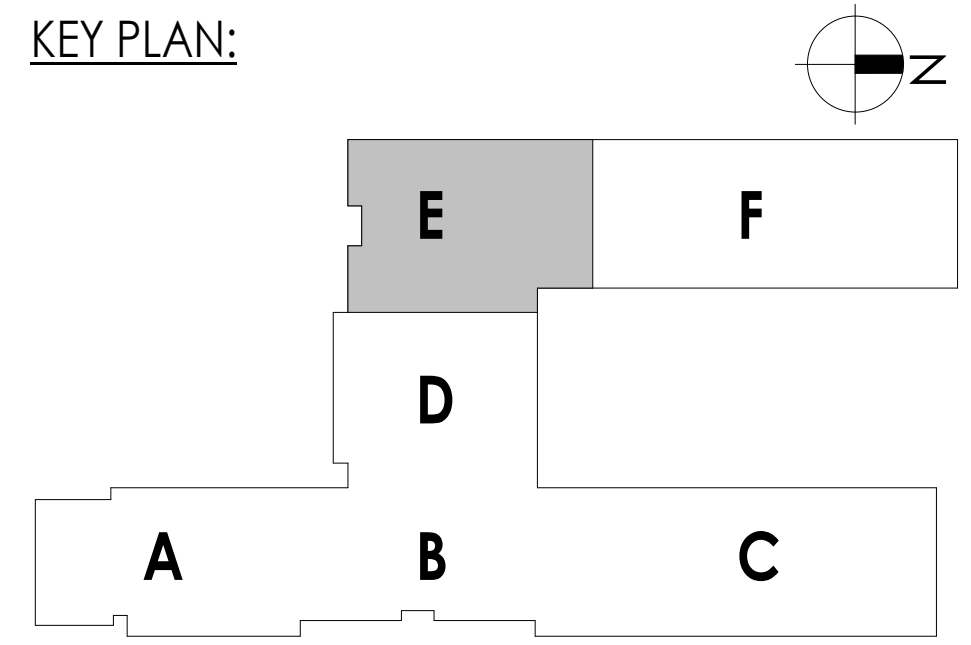
10/18/2023 9:51:38 AM <project location> REVIT PROJECT FILES ON BIM360



1
H304
1/8" = 1'-0"

HVAC PIPING PLAN-AREA E

- KEY NOTES:**
- 1 EXTEND CONDENSATE PIPING TO SANITARY. PROVIDE WITH AN INDIRECT CONNECTION.
 - 2 PROVIDE PIPING SIZING AND ROUTING. REFER TO MANUFACTURER'S RECOMMENDATIONS.
 - 3 PROVIDE BRANCH BOX. MOUNT UNIT AS HIGH AS POSSIBLE. COORDINATE PIPE ROUTING WITH DUCTWORK AND EXISTING STRUCTURE.
 - 4 PROVIDE PIPING TO COMPLETE HEATING LOOP. FIELD VERIFY PIPE SIZE. PROVIDE COVER AND COORDINATE ENCLOSURE WITH CASEWORK.



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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
SCHOOL DISTRICT**

Project Name
PHASE 1: 2022 BOND

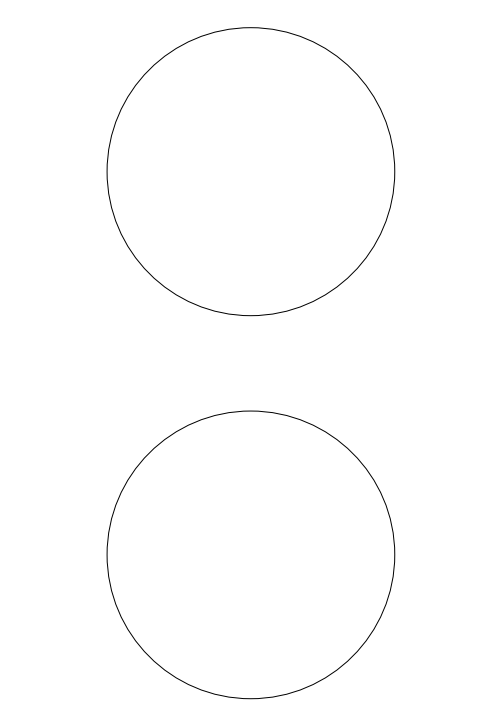
District Office Address
160 VAN WYCK RD. BLAUVELT, NY 10913

- 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# 35-03-01-06-0-004-032
 - 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
 - TMS OUTDOOR CLASSROOM SED# 35-03-01-06-7-035-001

PROJECT ISSUE & REVISION SCHEDULE

No.	Date	Description
-----	------	-------------

PROFESSIONAL STAMPS



NEW YORK STATE EDUCATION STATEMENT

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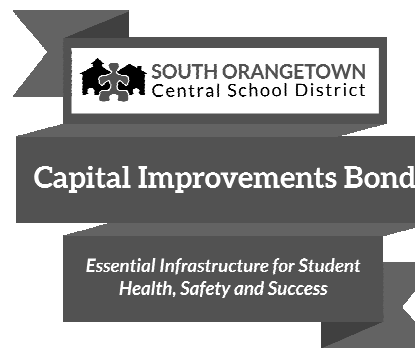
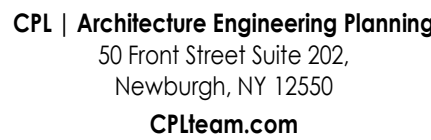
SHEET INFORMATION

Issued	Scale
10/18/2023	1/8" = 1'-0"
Project Status	
BID DOCUMENT	
Drawn By	Checked By
KCM	JJM
Drawing Title	
FIRST FLOOR HVAC PIPING PLAN- AREA E	

Drawing Number
**WOS
H304**



- ① EXTEND CONDENSATE PIPING TO SANITARY. PROVIDE WITH AN INDIRECT CONNECTION.
- ② PROVIDE PIPING SIZING AND ROUTING. REFER TO MANUFACTURER'S RECOMMENDATIONS.
- ③ PROVIDE BRANCH BOX, MOUNT UNIT AS HIGH AS POSSIBLE. COORDINATE PIPE ROUTING WITH DUCTWORK AND EXISTING STRUCTURE.
- ④ PROVIDE PIPING TO COMPLETE HEATING LOOP. FIELD VERIFY PIPE SIZE. PROVIDE COVER AND COORDINATE ENCLOSURE WITH CASEWORK. **BID ALTERNATE MC-02: DO NOT PROVIDE COVER.**



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

	WILLIAM O. SCHAEFER SED#:	50-03-01-06-0-012-019
	COTTAGE LANE ELEMENTARY SED#:	50-03-01-06-0-010-000
	TAPPAN TEE 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#:	50-03-01-06-0-023-022
	WOS OUTDOOR CLASSROOM SED#:	50-03-01-06-7-053-000
	SOWMS OUTDOOR CLASSROOM SED#:	50-03-01-06-7-056-000
	CLE OUTDOOR CLASSROOM SED#:	50-03-01-06-7-054-001
	THS OUTDOOR CLASSROOM SED#:	50-03-01-06-7-055-000

No.	Date	Description
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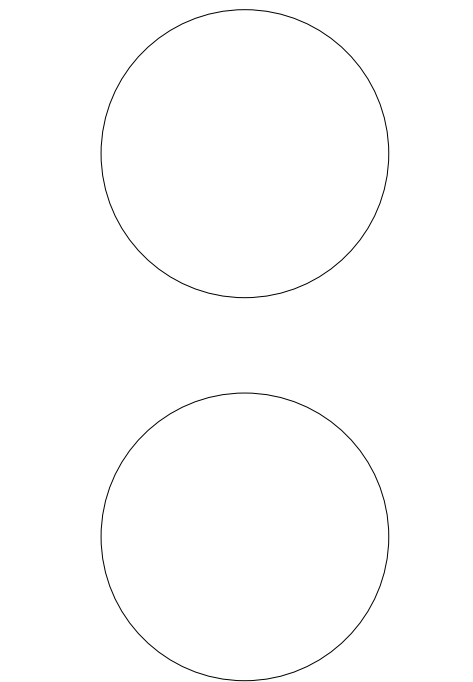
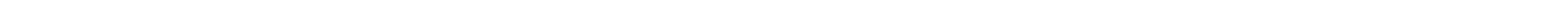
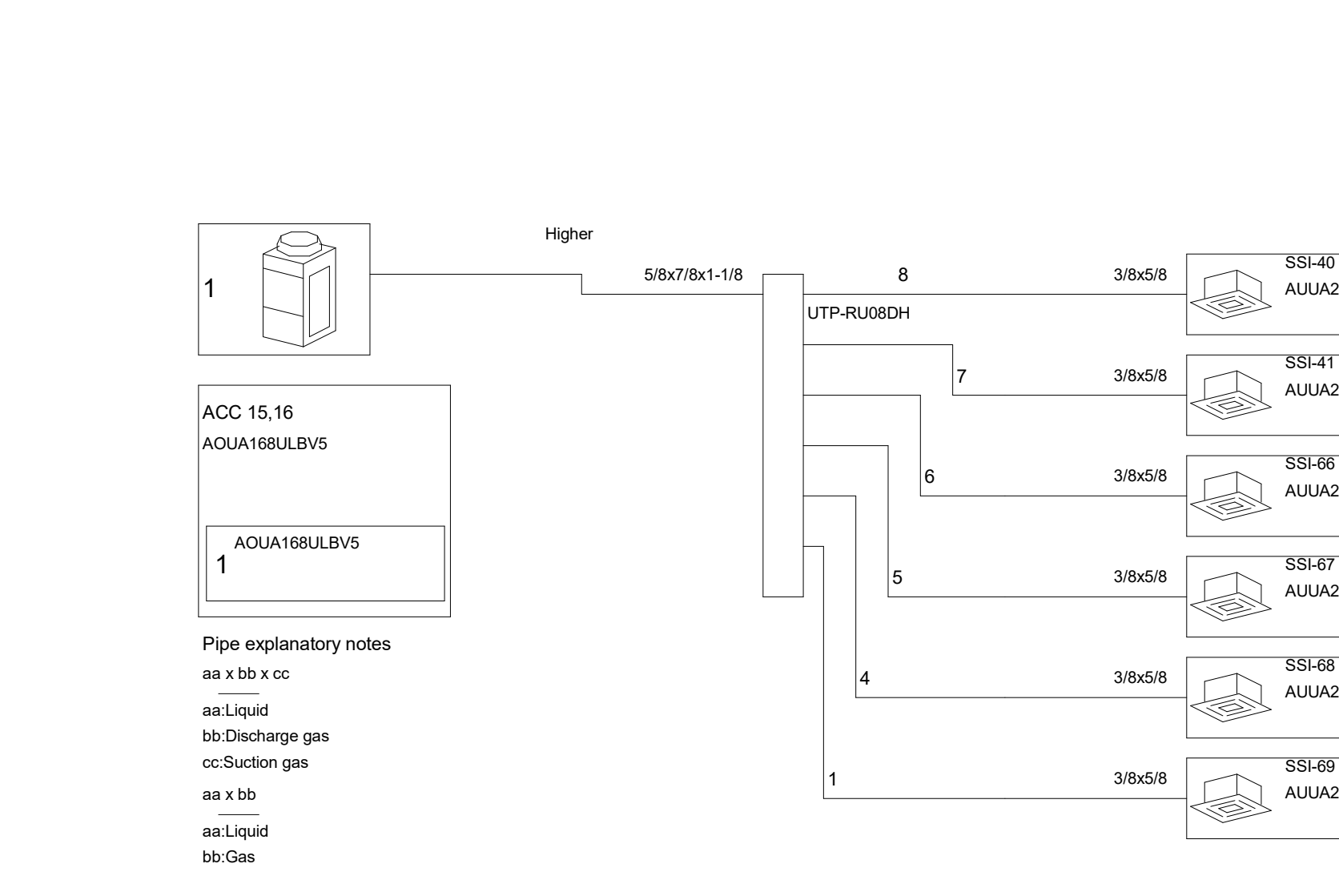
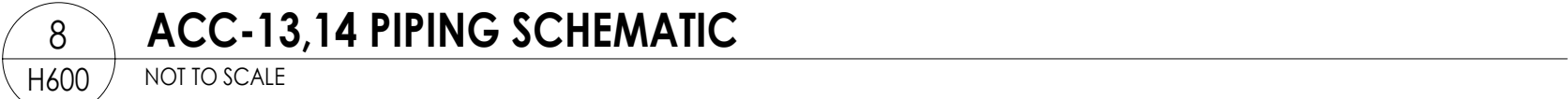
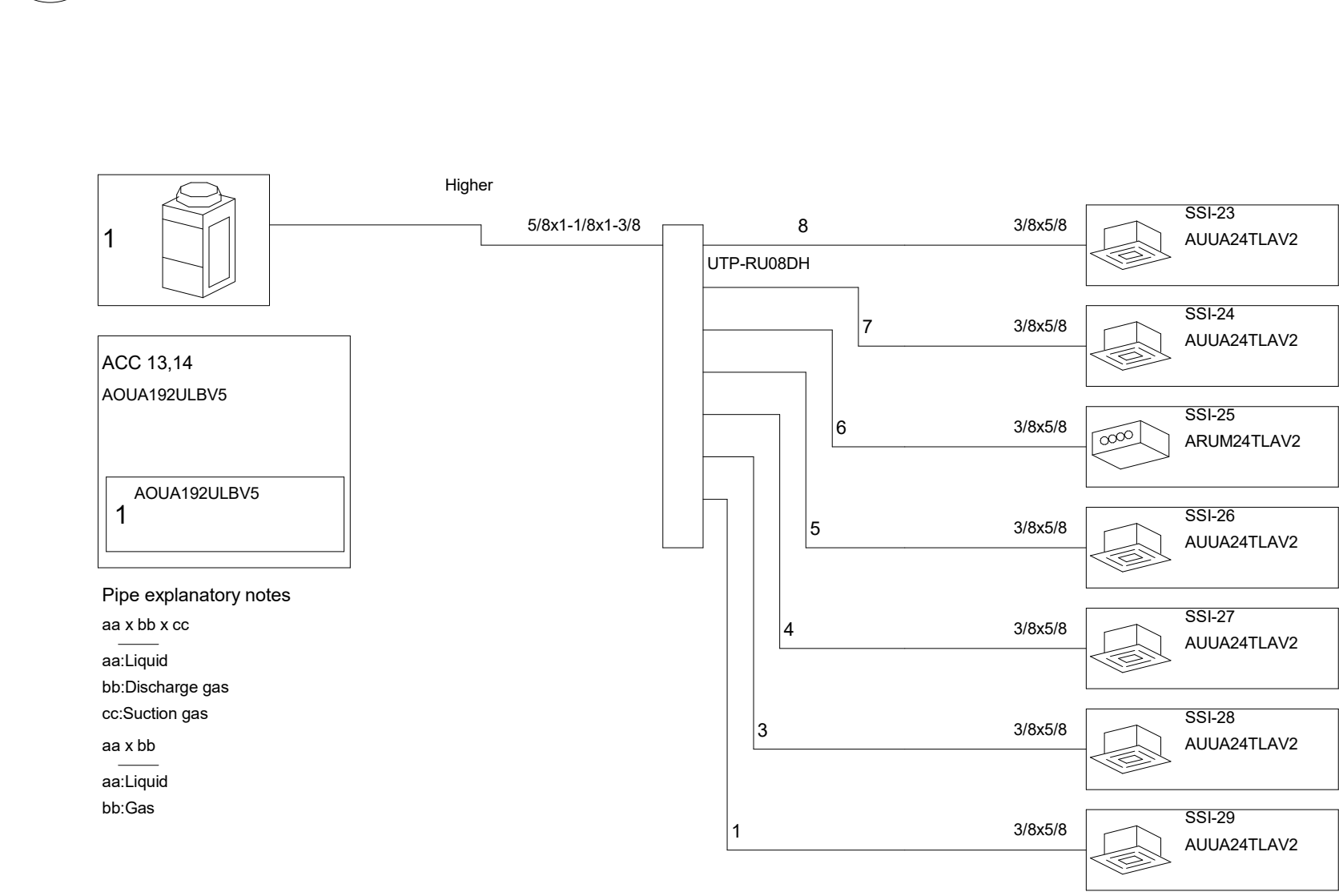
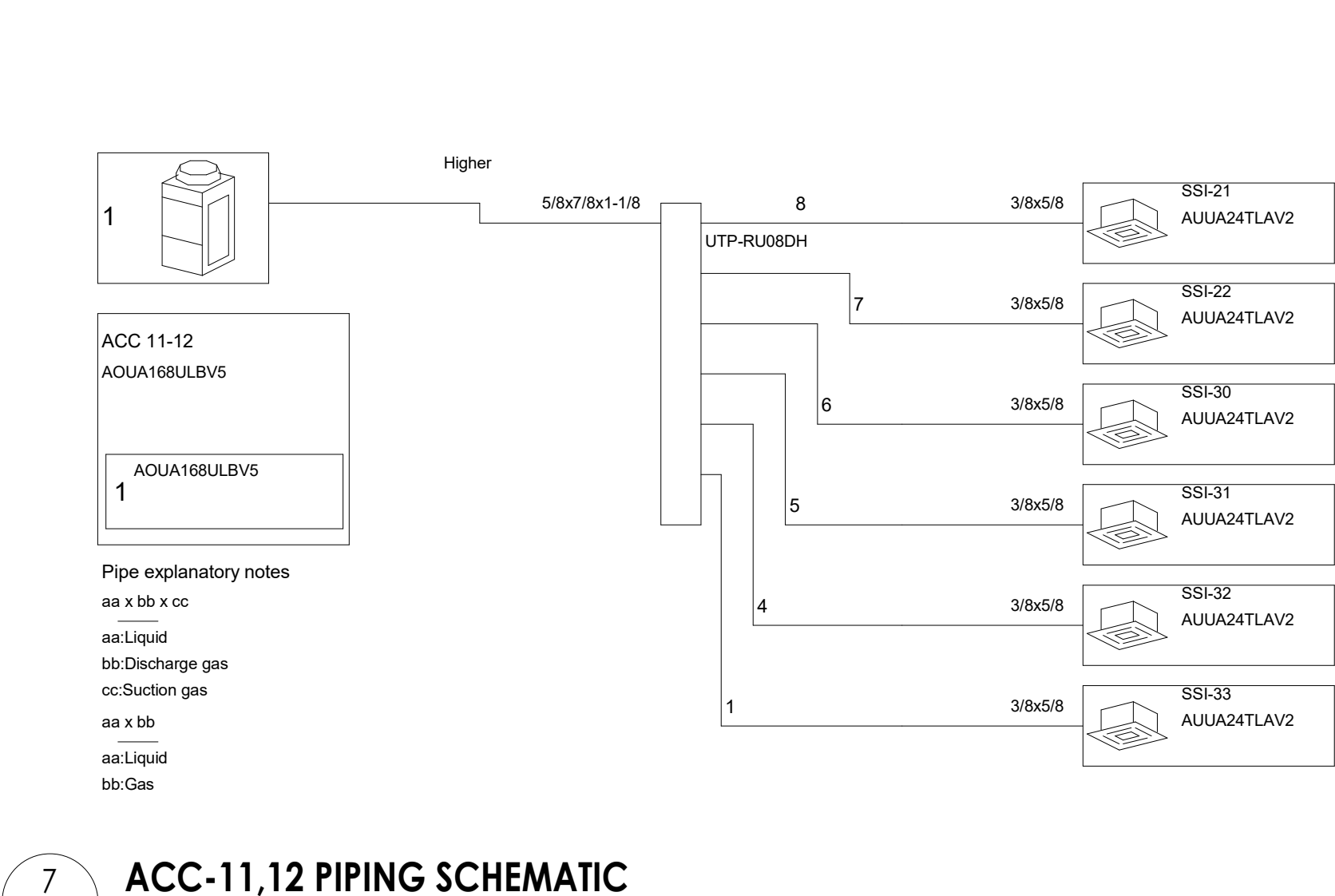
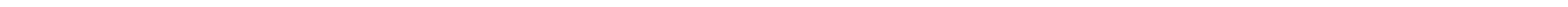
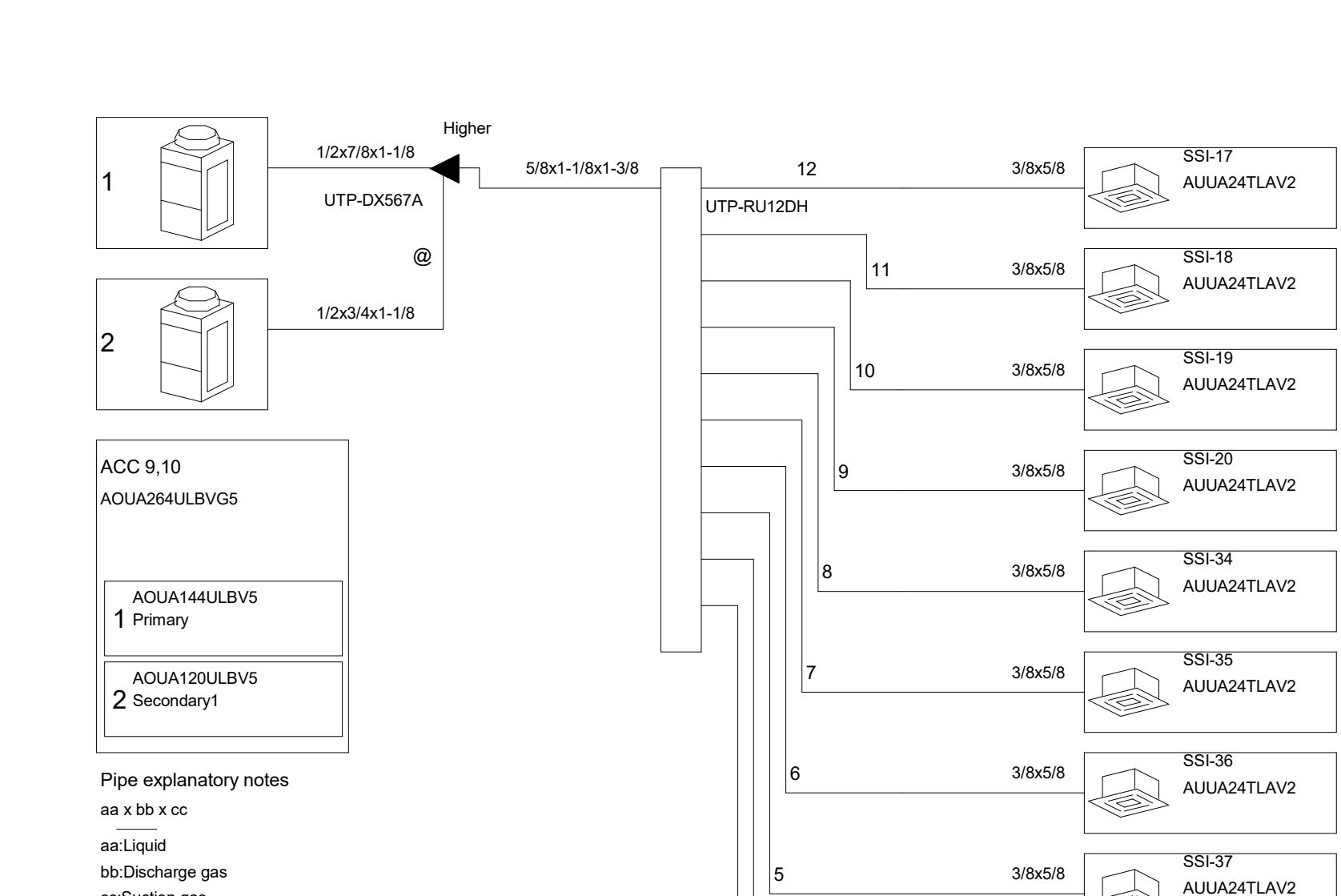
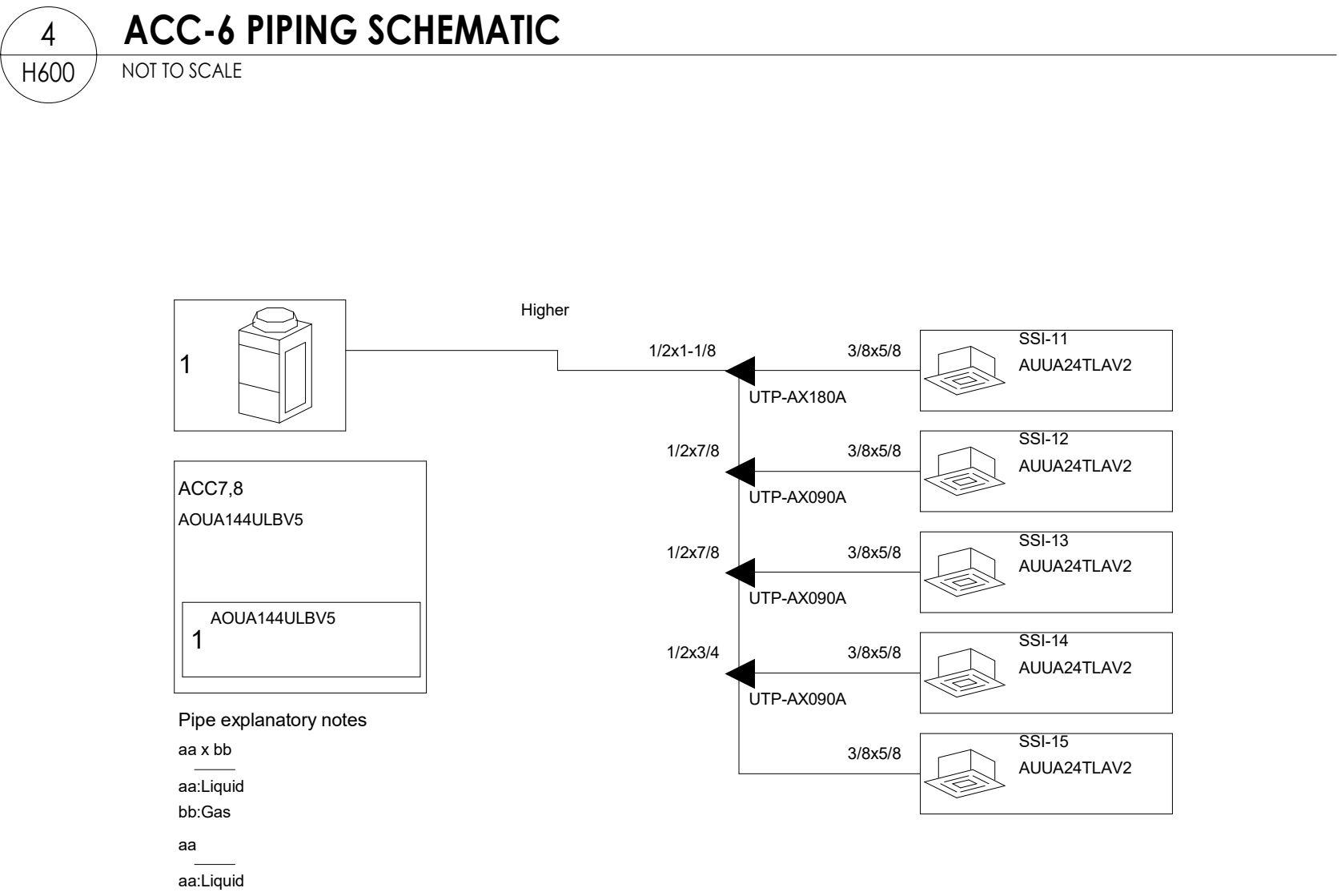
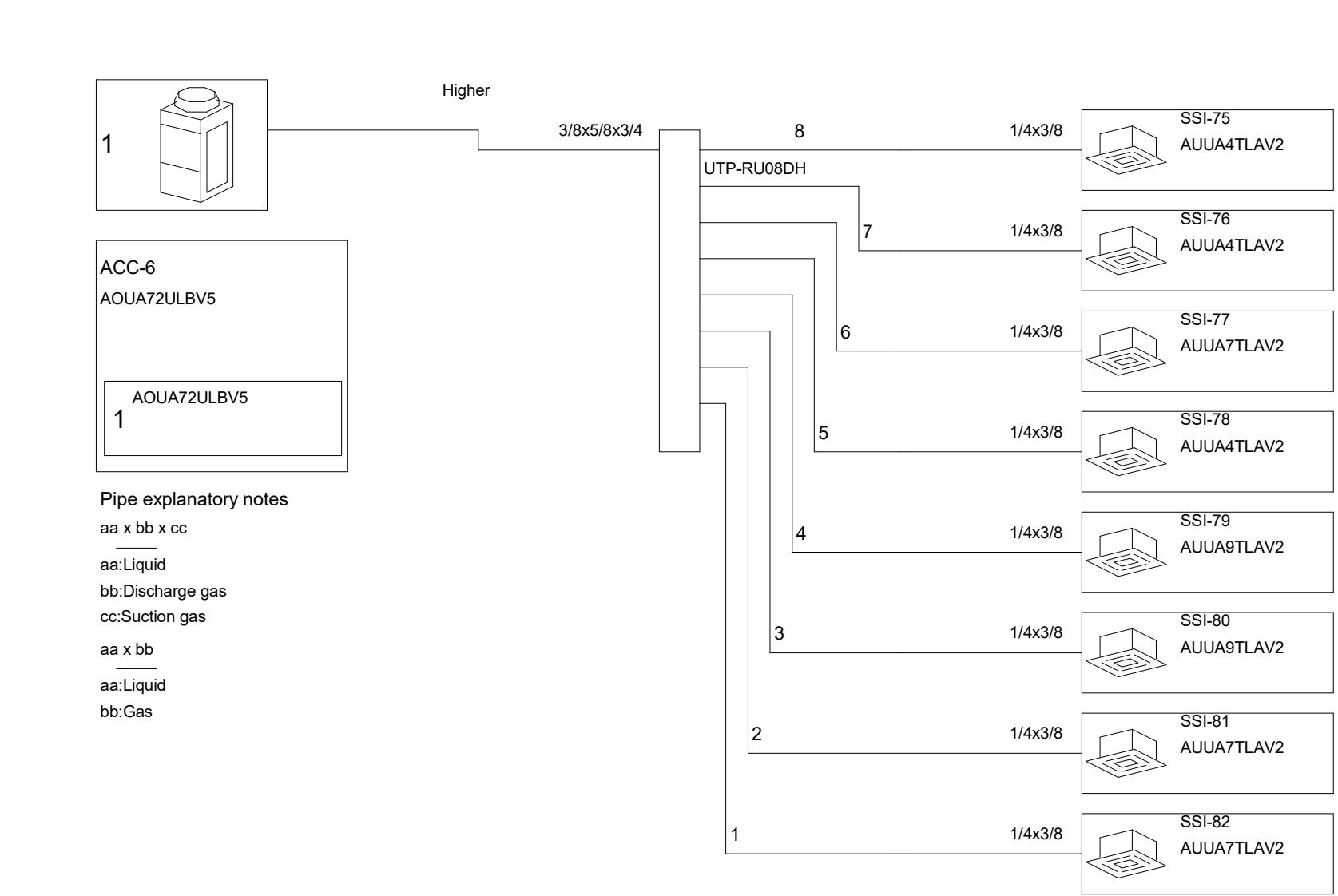
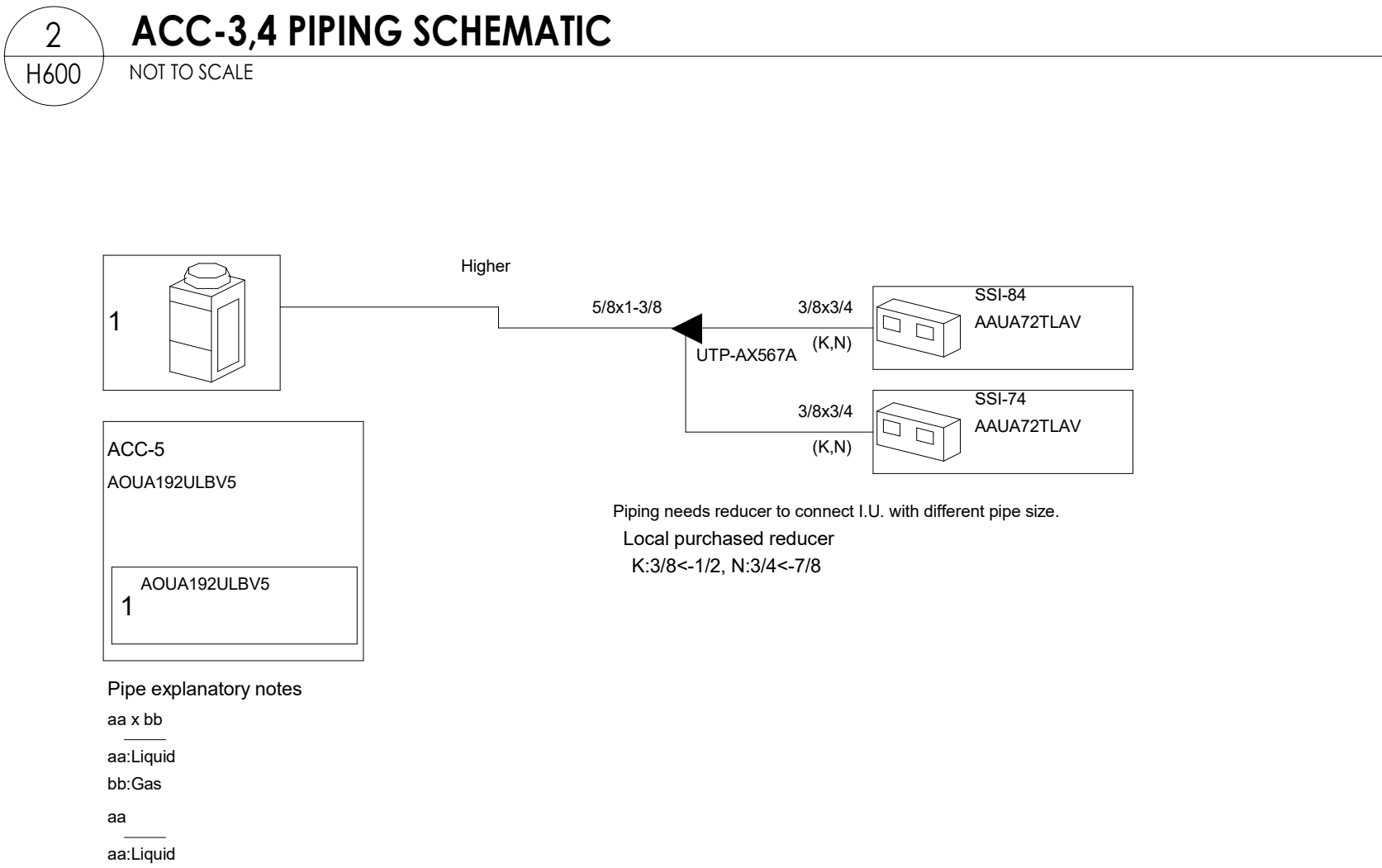
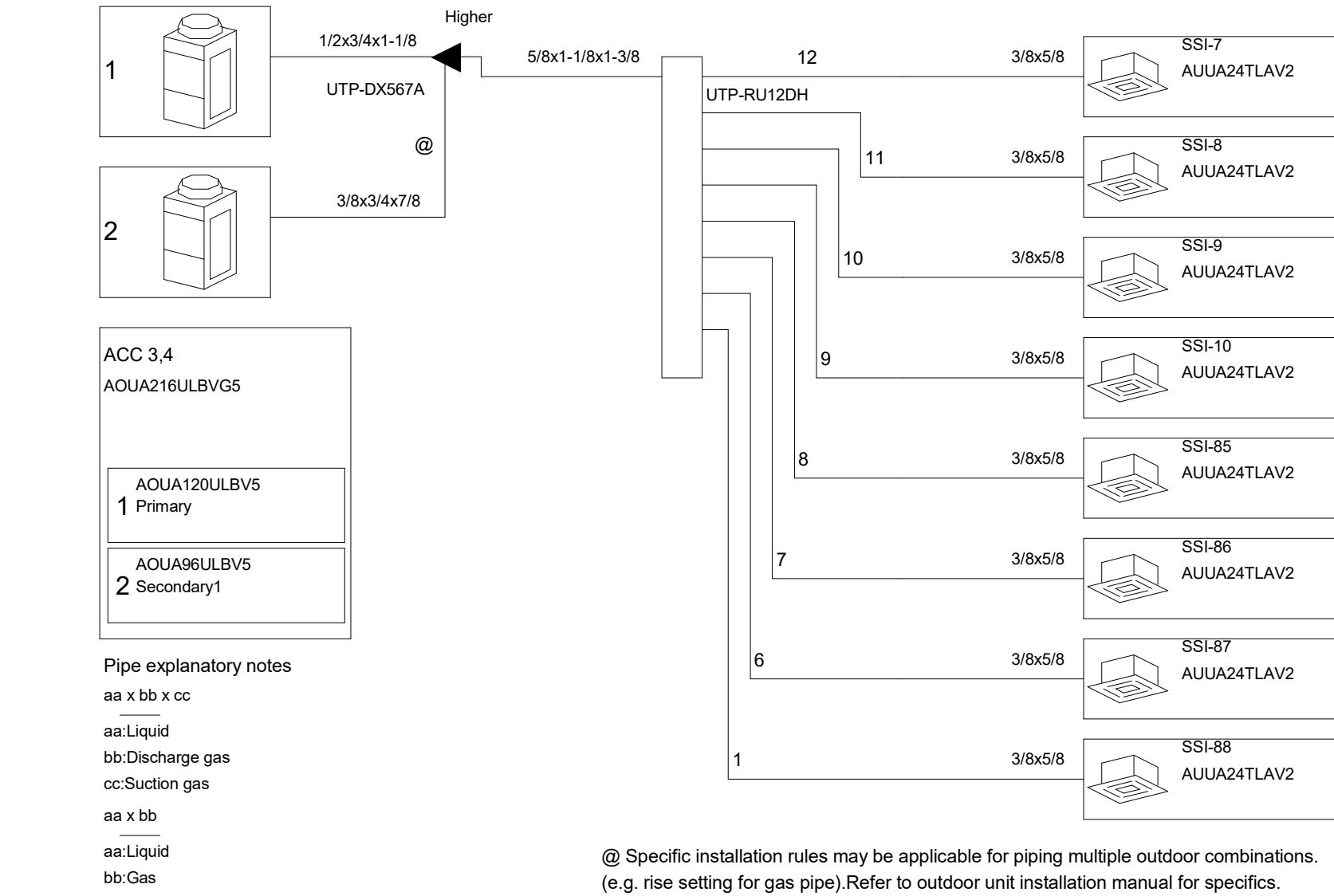
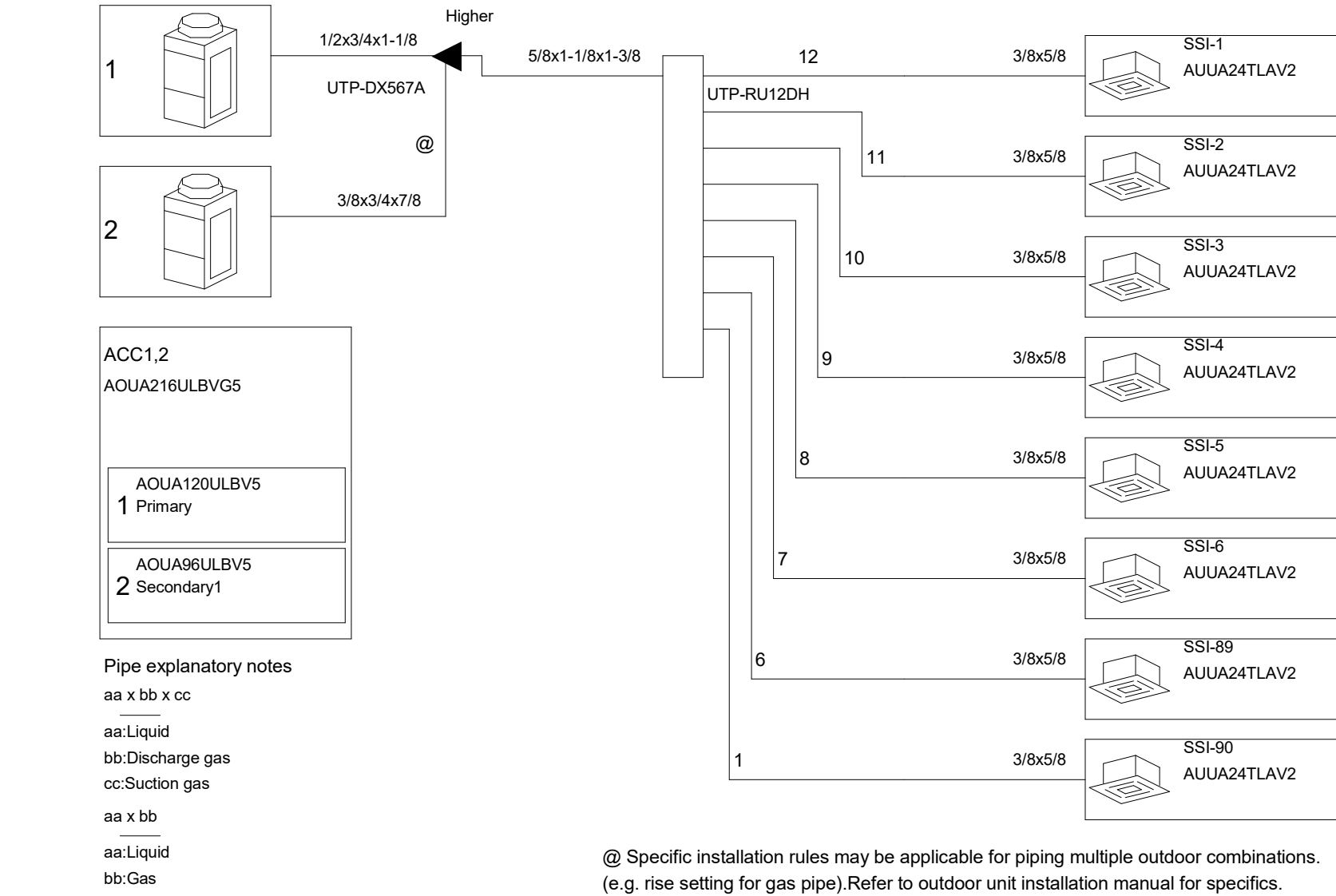
THIS IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND THE COMMISSIONERS' REGULATIONS FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED ARCHITECT, ENGINEER OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY, IF AN ITEM BEARING THE SEAL OF AN ARCHITECT, ENGINEER OR SURVEYOR IS ALTERED. THE 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.

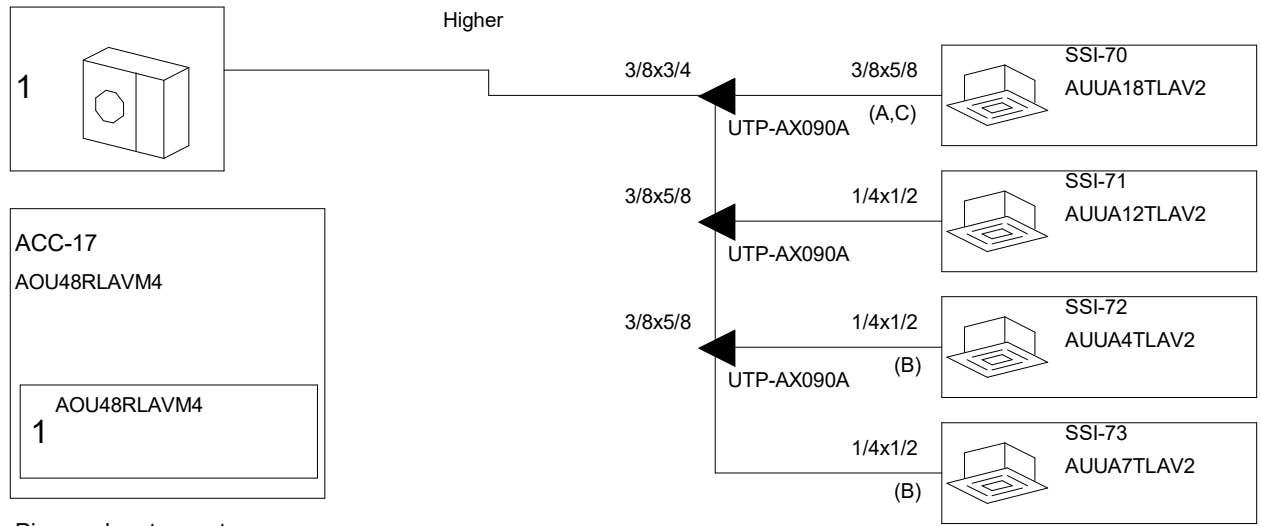
WOS
H305

KEY PLAN:

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

10/18/2023 5:51:48 AM c:\project\location> REVIT PROJECT FILES ON BIM360



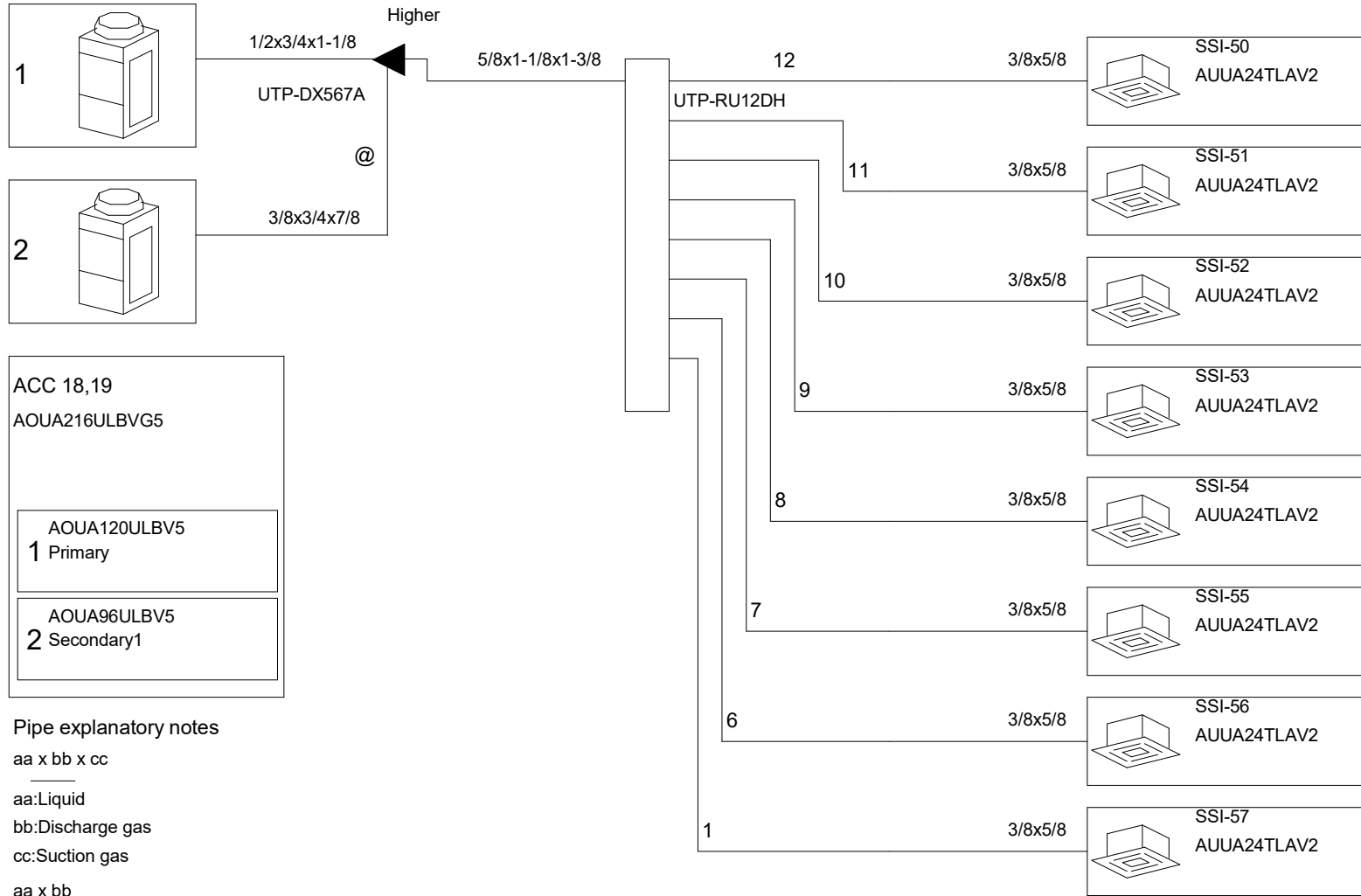


Pipe explanatory notes
aa x bb
aa:Liquid
bb:Gas
aa
aa:Liquid

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

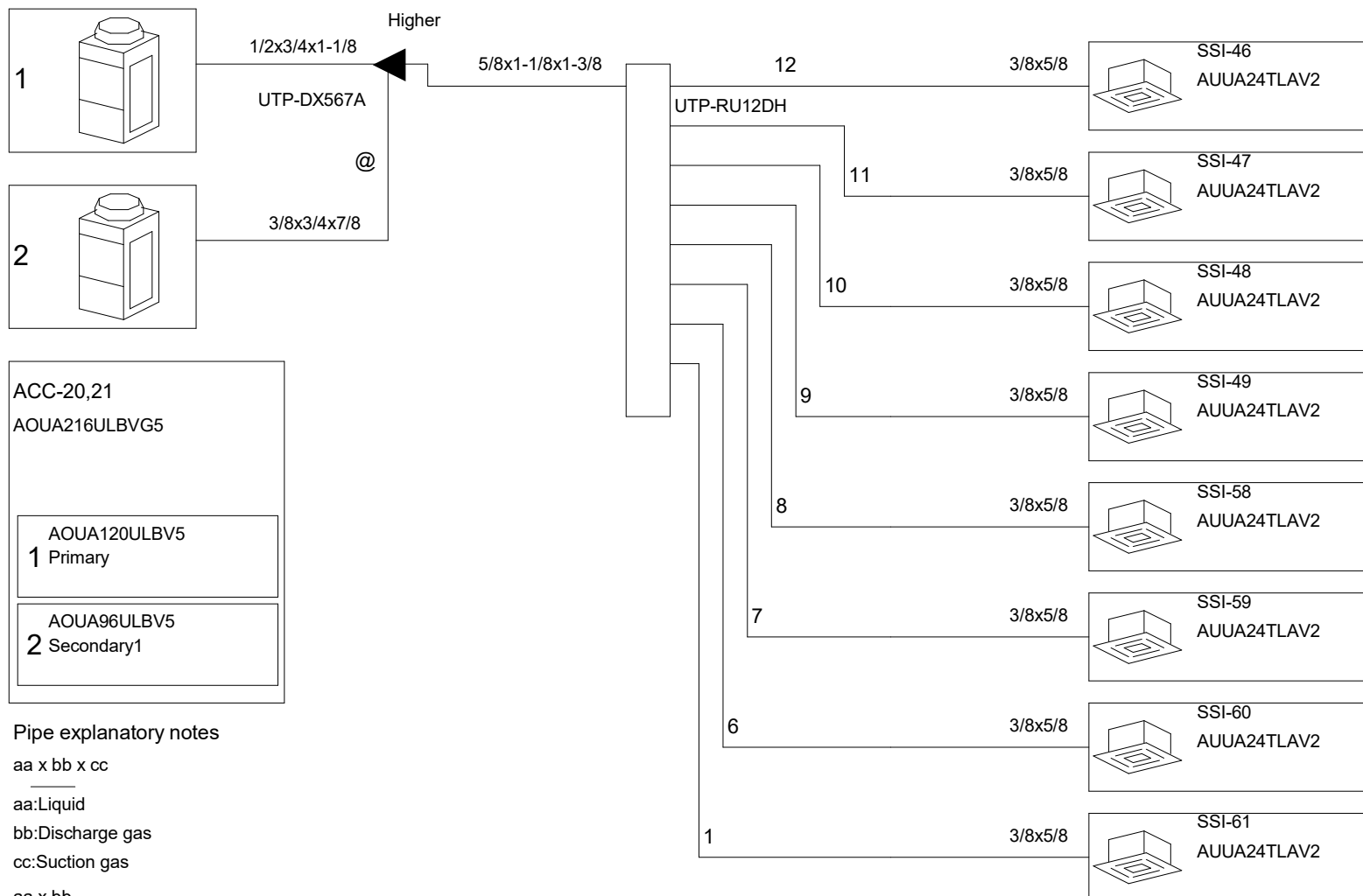


Pipe explanatory notes
aa x bb x cc
aa:Liquid
bb:Discharge gas
cc:Suction gas
aa x bb
aa:Liquid
bb:Gas

@ 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

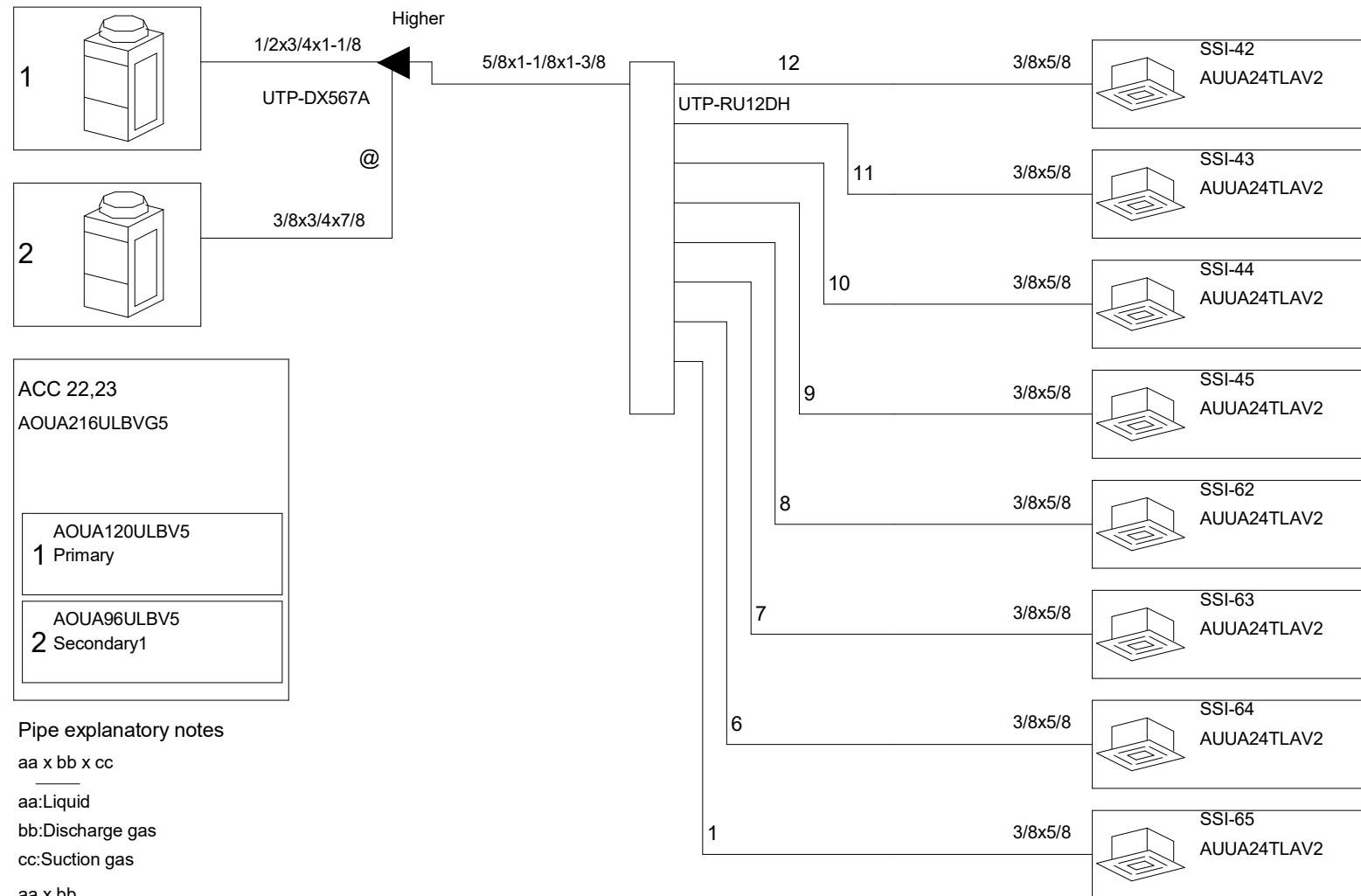


Pipe explanatory notes
aa x bb x cc
aa:Liquid
bb:Discharge gas
cc:Suction gas
aa x bb
aa:Liquid
bb:Gas

@ 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

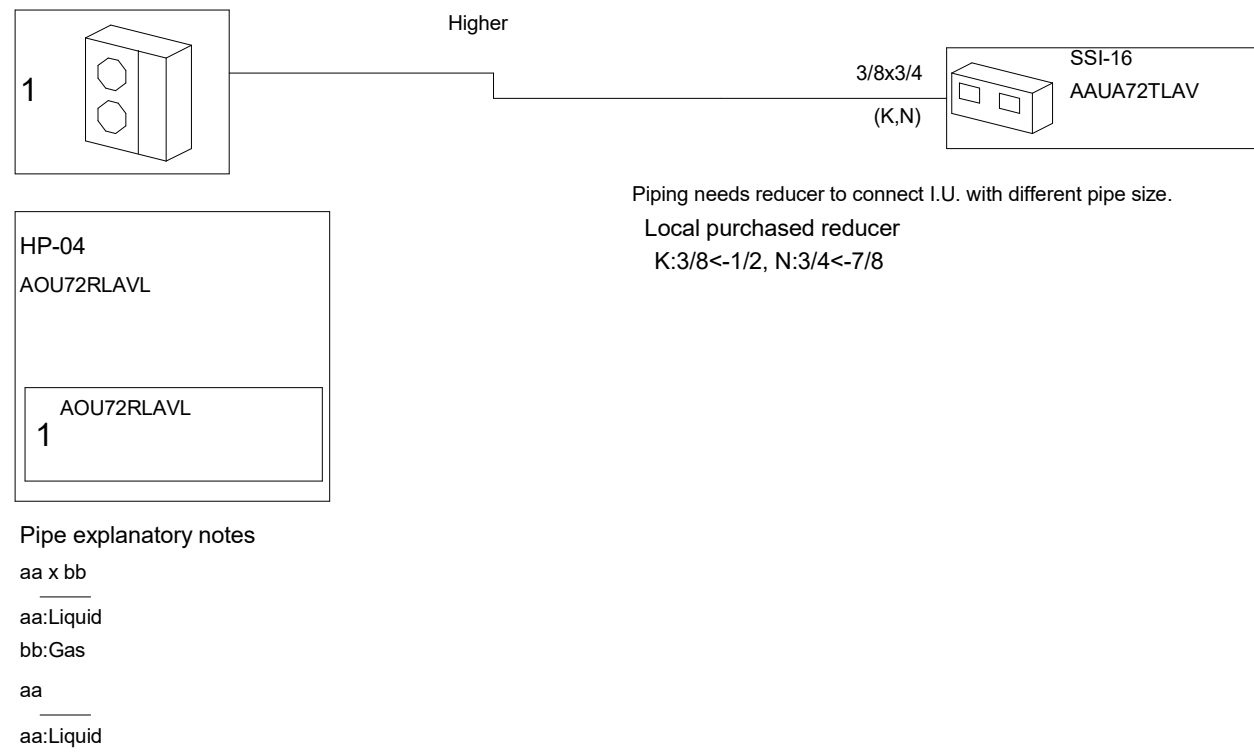


Pipe explanatory notes
aa x bb x cc
aa:Liquid
bb:Discharge gas
cc:Suction gas
aa x bb
aa:Liquid
bb:Gas

@ 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

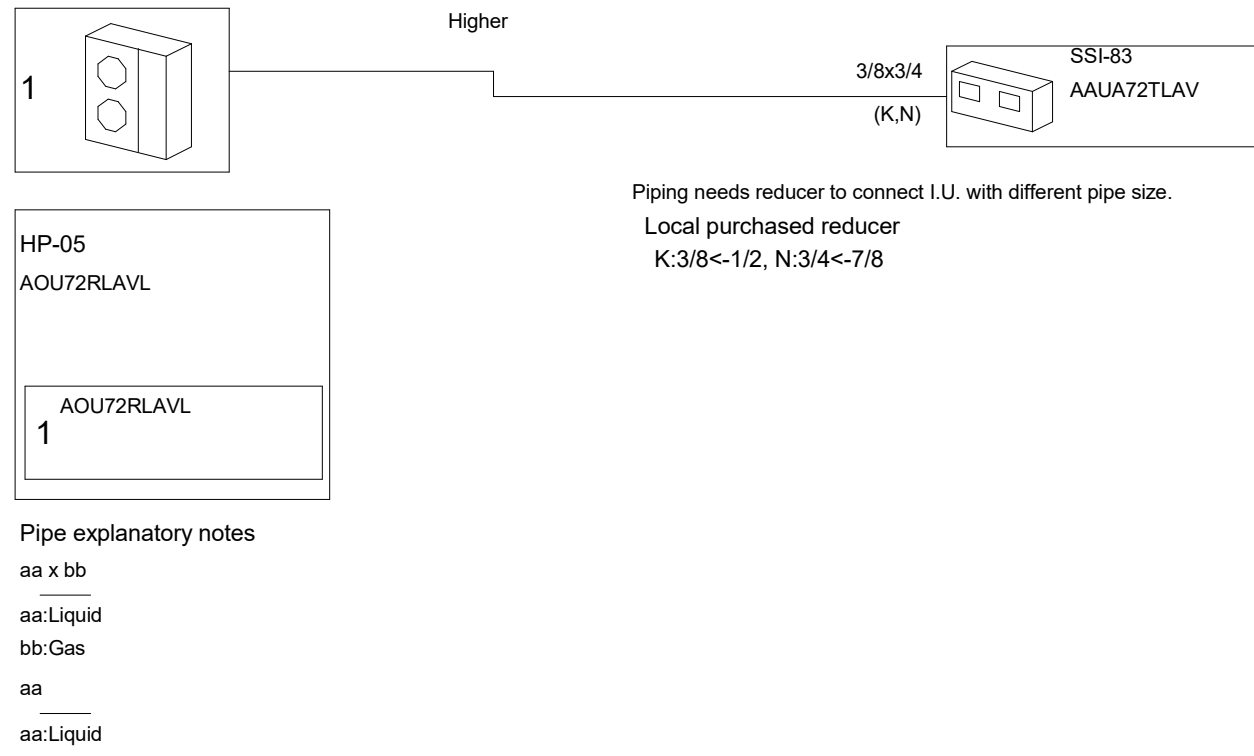


Pipe explanatory notes
aa x bb
aa:Liquid
bb:Gas
aa
aa:Liquid

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 ACC-24 PIPING SCHEMATIC

NOT TO SCALE

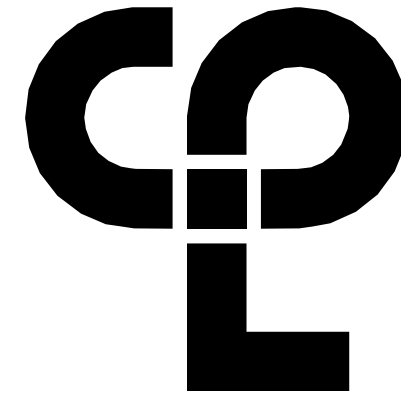


Pipe explanatory notes
aa x bb
aa:Liquid
bb:Gas
aa
aa:Liquid

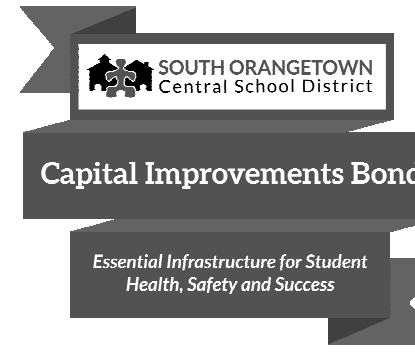
Piping needs reducer to connect I.U. with different pipe size.
Local purchased reducer
K:3/8<-1/2, N:3/4<-7/8

6 ACC-25 PIPING SCHEMATIC

NOT TO SCALE



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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

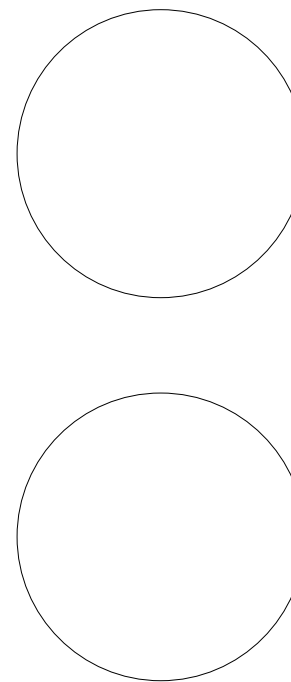
SOUTH ORANGETOWN CSD

- WILLIAM O. SCHAFER SED# 50-03-01-06-0-010-0219
- COTTAGE LANE ELEMENTARY SED# 50-03-01-06-0-010-022
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- 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# 50-03-01-06-7-055-001
- SCMS 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

PROFESSIONAL STAMPS



NEW YORK STATE EDUCATION STATEMENT
I, as a LICENSED PROFESSIONAL ENGINEER, HEREBY CERTIFY THAT THE DESIGN, CALCULATIONS, AND SPECIFICATIONS OF THE ABOVE PROJECT ARE THE RESULT OF MY OWN PERSONAL AND INDEPENDENT PROFESSIONAL JUDGMENT AND SKILL, AND THAT I AM NOT PROVIDING ANY SERVICES OR ASSISTANCE TO ANY OTHER PERSON OR ENTITY IN THE PERFORMANCE OF THE ABOVE PROJECT.

SHEET INFORMATION

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

Drawing Number

WOS
H601

10/18/2023 8:51:43 AM \\project location> REVIT PROJECT FILES ON BIM360

DX COIL SCHEDULE																	
TAG	LOCATION / SERVES	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 APO (IN WC)					
							DB	WB	DB	WB							
DX-1	ROOF / AUDITERIA	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
<u>NOTES:</u> 1. COORDINATE REFRIGERATION TYPE WITH CONDENSING UNIT 2. LOCATE IN EXISTING RTU, UPSTREAM OF SUPPLY FAN, DOWN STREAM FROM FILTERS.																	

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	762	642	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
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.						

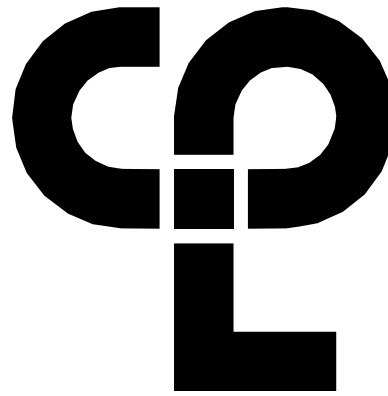
ENERGY RECOVERY UNIT SCHEDULE																						
MARK	LOCATION	AREA SERVED	SA/OA (CFM)	EA (CFM)	RA (CFM)	SUPPLY FAN				EXHAUST FAN				PRIMARY HEAT	SECONDARY HEAT	FROST CONTROL	OPERATING WEIGHT (LBS)	FILTERS	ELECTRICAL REQUIREMENTS			
						FAN TYPE	E.S.P. (IN. WC)	RPM	BHP	HP	FAN TYPE	E.S.P. (IN. WC)	RPM						BHP	HP	V/Ø/HZ	MCA
ERU-1	ROOF	A	1865	1945	1865	PLENUM	1.0	-	1.48	2	PLENUM	0.5	-	0.85	2	HEAT PUMP	ELECTRIC	YES	1554	MERV 8	97	
ERU-2	ROOF	A	1620	1700	1620	PLENUM	1.0	-	1.48	2	PLENUM	0.5	-	0.85	2	HEAT PUMP	ELECTRIC	YES	1554	MERV 8	97	
ERU-3	ROOF	B	1640	1720	1720	PLENUM	1.0	-	1.48	2	PLENUM	0.5	-	0.85	2	HEAT PUMP	ELECTRIC	YES	1554	MERV 8	97	
ERU-6	ROOF	C	2120	2200	2120	PLENUM	1.0	-	1.48	2	PLENUM	0.5	-	0.85	2	HEAT PUMP	ELECTRIC	YES	1554	MERV 8	97	
ERU-7	ROOF	C	1230	1310	1230	PLENUM	1.0	-	1.48	2	PLENUM	0.5	-	0.85	2	HEAT PUMP	ELECTRIC	YES	1554	MERV 8	97	
ERU-8	ROOF	C	1260	1340	1260	PLENUM	1.0	-	1.48	2	PLENUM	0.5	-	0.85	2	HEAT PUMP	ELECTRIC	YES	1554	MERV 8	97	
ERU-9	ROOF	F	1990	2070	1990	PLENUM	1.0	-	1.48	2	PLENUM	0.5	-	0.85	2	HEAT PUMP	ELECTRIC	YES	1554	MERV 8	97	
ERU-10	ROOF	F	1690	1770	1690	PLENUM	1.0	-	1.48	2	PLENUM	0.5	-	0.85	2	HEAT PUMP	ELECTRIC	YES	1554	MERV 8	97	
ERU-11	ROOF	F	1680	1760	1680	PLENUM	1.0	-	1.48	2	PLENUM	0.5	-	0.85	2	HEAT PUMP	ELECTRIC	YES	1554	MERV 8	97	
ERU-12	ROOF	E	1300	1380	1300	PLENUM	1.0	-	1.48	2	PLENUM	0.5	-	0.85	2	HEAT PUMP	ELECTRIC	YES	1554	MERV 8	97	
ERU-13	ROOF	E	2390	2470	2390	PLENUM	1.0	-	1.48	2	PLENUM	0.5	-	0.85	2	HEAT PUMP	ELECTRIC	YES	1554	MERV 8	97	

ENERGY RECOVERY UNIT SCHEDULE (PERFORMANCE)																				
MARK	WINTER CONDITIONS									SUMMER CONDITIONS									TYPICAL UNIT MFG & MODEL NO.	REMARKS:
	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	68	50	40.29	32.8	18.5	16.9	64.8	90	71	75	62	80.03	65.31	84.79	68.04	63.7	AAON RN-00780E609	1,2,3,4
ERU-2	-7	-8	68	50	40.29	32.77	18.46	16.93	64.8	90	71	75	62	80.03	65.31	84.79	68.04	63.7	AAON RN-00780E609	1,2,3,4
ERU-3	-7	-8	68	50	40.29	32.77	18.46	16.93	64.8	90	71	75	62	80.03	65.31	84.79	68.04	63.7	AAON RN-00780E609	1,2,3,4
ERU-6	-7	-8	68	50	40.29	32.77	18.46	16.93	64.8	90	71	75	62	80.03	65.31	84.79	68.04	63.7	AAON RN-00780E609	1,2,3,4
ERU-7	-7	-8	68	50	40.29	32.77	18.46	16.93	64.8	90	71	75	62	80.03	65.31	84.79	68.04	63.7	AAON RN-00780E609	1,2,3,4
ERU-8	-7	-8	68	50	40.29	32.77	18.46	16.93	64.8	90	71	75	62	80.03	65.31	84.79	68.04	63.7	AAON RN-00780E609	1,2,3,4
ERU-9	-7	-8	68	50	40.29	32.77	18.46	16.93	64.8	90	71	75	62	80.03	65.31	84.79	68.04	63.7	AAON RN-00780E609	1,2,3,4
ERU-10	-7	-8	68	50	40.29	32.77	18.46	16.93	64.8	90	71	75	62	80.03	65.31	84.79	68.04	63.7	AAON RN-00780E609	1,2,3,4
ERU-11	-7	-8	68	50	40.29	32.77	18.46	16.93	64.8	90	71	75	62	80.03	65.31	84.79	68.04	63.7	AAON RN-00780E609	1,2,3,4
ERU-12	-7	-8	68	50	40.29	32.77	18.46	16.93	64.8	90	71	75	62	80.03	65.31	84.79	68.04	63.7	AAON RN-00780E609	1,2,3,4
ERU-13	-7	-8	68	50	40.29	32.77	18.46	16.93	64.8	90	71	75	62	80.03	65.31	84.79	68.04	63.7	AAON RN-00780E609	1,2,3,4
REMARKS:	1. FRESH AIR AND EXHAUST DAMPERS. 2. TERMINAL STRIP FOR BMS CONTROL OF FAN AND DAMPERS. 3. DIRTY FILTER SENSORS. 4. PROVIDE WITH MINIMUM 10' DUCT LINER AND 2 ELBOW BEFORE OUTLETS. REFER TO PLANS.																			

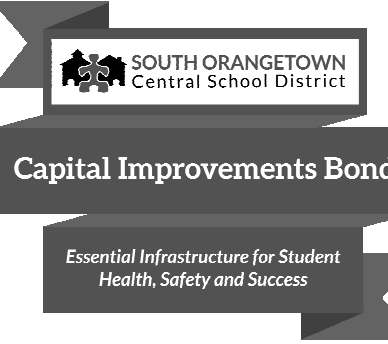
ERU (HEAT PUMP PERFORMANCE)							ERU (ELECTRIC HEATER)					
	EVAPORATOR					HEATING					POWER (KW)	
	TYPE	FINS PER INCH	ROWS	FACE VEL (FPM)	REF.	COMP QTY	AIR FLOW (CFM)	TOTAL CAPACITY (MBH)	EAT(F)	LAT(F)		OA TEMP(F)
ERU-1	AIR SOURCE	14	3	235.1	R-410A	1	1865	72	40.3	75.9	-7	21.0
ERU-2	AIR SOURCE	14	3	235.1	R-410A	1	1620	62	40.3	75.9	-7	18.3
ERU-3	AIR SOURCE	14	3	235.1	R-410A	1	1640	63	40.3	75.9	-7	18.5
ERU-6	AIR SOURCE	14	3	235.1	R-410A	1	2120	82	40.3	75.9	-7	23.9
ERU-7	AIR SOURCE	14	3	235.1	R-410A	1	1230	47	40.3	75.9	-7	13.9
ERU-8	AIR SOURCE	14	3	235.1	R-410A	1	1260	48	40.3	75.9	-7	14.2
ERU-9	AIR SOURCE	14	3	235.1	R-410A	1	1990	77	40.3	75.9	-7	22.4
ERU-10	AIR SOURCE	14	3	235.1	R-410A	1	1690	65	40.3	75.9	-7	19.0
ERU-11	AIR SOURCE	14	3	235.1	R-410A	1	1680	65	40.3	75.9	-7	18.9
ERU-12	AIR SOURCE	14	3	235.1	R-410A	1	1300	50	40.3	75.9	-7	14.6
ERU-13	AIR SOURCE	14	3	235.1	R-410A	1	2390	92	40.3	75.9	-7	26.9

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 ZONE OUTDOOR AIR (CFM)	ZONE OUTDOOR AIRFLOW (CFM)	ADJUSTED CFM
ROOM #	CLASSIFICATION		Vp2	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-36.37	425	888 SF	25	23	10.0	0.12	-	0.8	337	421	425
5	LIBRARY	SSI-11.12.13	240	1099 SF	10	11	5.0	0.12	-	0.8	337	234	240
5A	LIBRARY	SSI-14.15	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-88.69	425	898 SF	25	23	10.0	0.12	-	0.8	338	423	425
59	CLASSROOMS (5-8)	SSI-86.67	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
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	50	172 SF	-	0	-	0.06	-	0.8	10	13	50
106A	OFFICE SPACES	RTU-3	50	181 SF	5	1	5.0	0.06	-	0.8	16	20	50
106B	OFFICE SPACES	RTU-3	50	132 SF	5	1	5.0	0.06	-	0.8	13	17	50
106C	OFFICE SPACES	RTU-3	50	124 SF	5	1	5.0	0.06	-	0.8	12	16	50
106D	OFFICE SPACES	RTU-3	50	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	225	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	1,000	2472 SF	-	0	-	0.06	-	0.8	148	186	1000
2	CORRIDOR	ERU-13	1,000	1500 SF	-	0	-	0.06	-	0.8	90	113	1000
3	CORRIDOR	SSI-16	600	3830 SF	-	0	-	0.06	-	0.8	230	288	600
	CORRIDOR	SSI-7.4	600	3830 SF	-	0	-	0.06	-	0.8	230	288	600

ROOFTOP AIR CONDITIONING UNIT SCHEDULE																
TAG	LOCATION	SERVES	NOM. TONS	SUPPLY FAN			COOLING CAPACITY					ELECTRICAL			TYPICAL UNIT MFG & MODEL NO.	NOTES:
				CFM	OA CFM	RPM	ESP (IN. W.C.)	BHP / HP	TOTAL MBH	SENS MBH	EAT°F DB WB	AMB °F	FLA	VOLT/Ø	MCA	
RTU-3	ROOF	OFFICE AREA	8	3600	730	9142	1.25	2.7/3	121	95.6	78 64	95	46	208/3	54	AARON RN-010-8-0-EB09-EHN 1,2,3
NOTES: 1. 14" INSULATED CURB. EXTEND EXISTING CONTROLS TO NEW UNITS. JOHNSON CONTROLS FACILITY EXPLORER. 2. FACTORY MOUNTED AND WIRED DISCONNECT. 2" PREFILTER, 4" MERV 14 FILTER. 3. DOUBLE WAS, R-13 FOAM INSULATION.																



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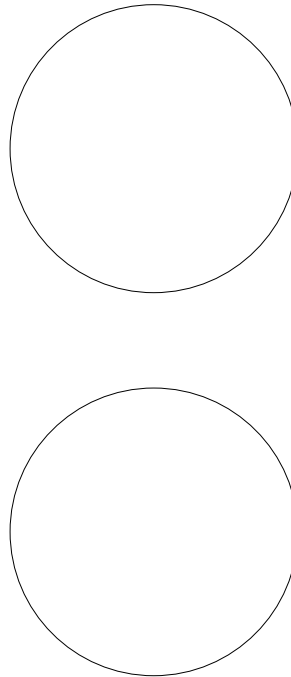
PROJECT INFORMATION
Project Number
14457.20
Client Name
SOUTH ORANGETOWN CENTRAL SCHOOL DISTRICT
Project Name
PHASE 1: 2022 BOND

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

SOUTH ORANGETOWN CSD
■ WILLIAM O. SCHAFER SED# 35-03-01-06-010-0219
□ 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# 35-03-01-06-010-020
□ COTTAGE LANE SAL SED# 35-03-01-06-010-023
□ COTTAGE LANE LIBRARY SAL SED# 35-03-01-06-023-002
□ WOS OUTDOOR CLASSROOM SED# 35-03-01-06-7155-001
□ BOWS OUTDOOR CLASSROOM SED# 35-03-01-06-7156-001
□ CLE OUTDOOR CLASSROOM SED# 35-03-01-06-7154-001
□ THS OUTDOOR CLASSROOM SED# 35-03-01-06-7155-001

PROJECT ISSUE & REVISION SCHEDULE
No. Date Description

PROFESSIONAL STAMPS



NEW YORK STATE EDUCATION STATUTES
IT IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND THE COMMISSIONER'S REGULATIONS FOR ANY PERSON, UNDER ACTING UNDER THE SUPERVISION OF A LICENSED ARCHITECT, ENGINEER OR LAND SURVEYOR, TO ACT AS SUCH IN ANY WAY, IF ANY, WITHOUT BEING THE SIGNATURE, SEAL OR EXPLICIT ENDORSEMENT OF SUCH PERSON, BEING THE SIGNATURE, SEAL OR EXPLICIT ENDORSEMENT OF SUCH PERSON, BEING THE SIGNATURE, SEAL OR EXPLICIT ENDORSEMENT OF SUCH PERSON, BEING THE SIGNATURE, SEAL OR EXPLICIT ENDORSEMENT OF SUCH PERSON.

SHEET INFORMATION
Issued
10/18/2023
Project Status
BID DOCUMENT
Drawn By
KCM
Drawing Title
MECHANICAL SCHEDULES
Scale
12" = 1'-0"
Checked By
JJM

Drawing Number

WOS
H902