

VERNON MULTIPURPOSE CENTER

INTERIOR REHABILITATION PROJECT

3436 N 27TH STREET - KANSAS CITY, KS

JUNE 27, 2025



2 PROJECT LOCATION

1" = 40'-0"

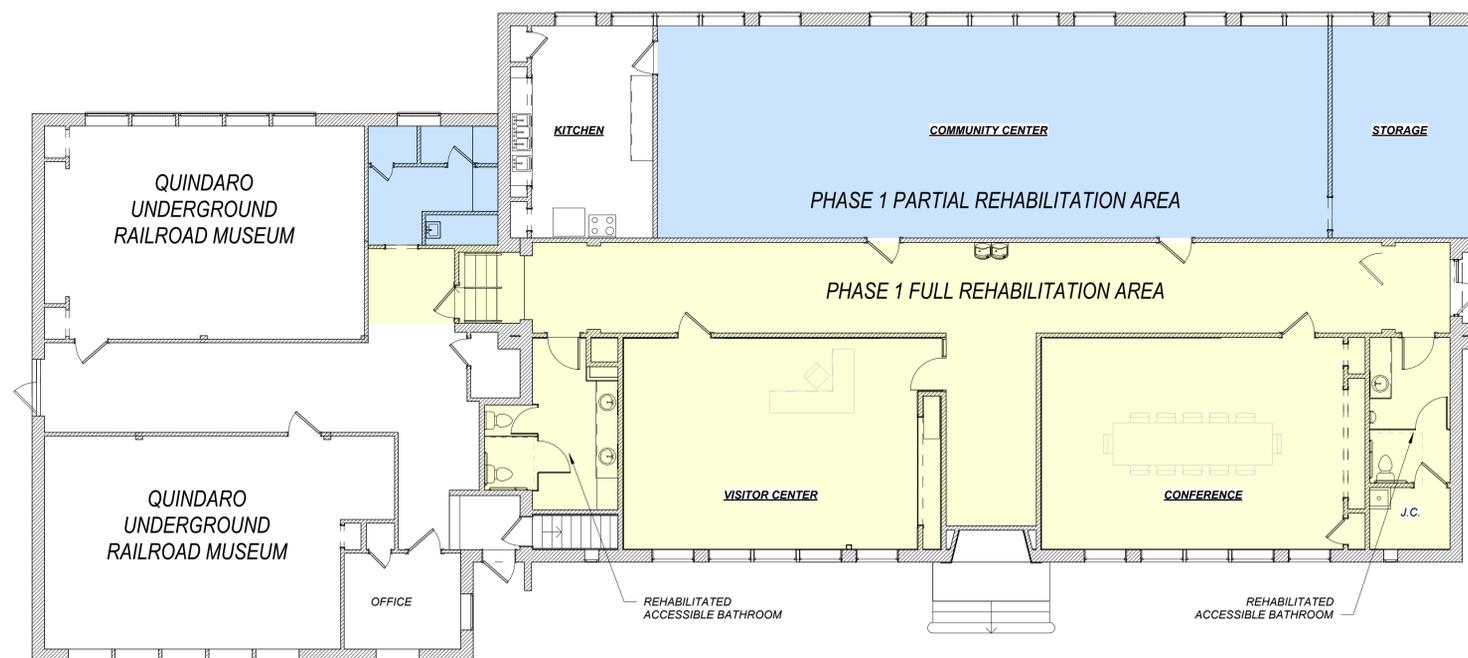
Hernly
ASSOCIATES, Inc.

ARCHITECTS
PRESERVATION CONSULTANTS
GRANT ADMINISTRATORS

ARCHITECT
HERNLY ASSOCIATES, INC.
1100 RHODE ISLAND STREET
LAWRENCE, KS 66044
P) 785-749-5806



MEP CONSULTANT
HUGHES CONSULTING
ENGINEERING, PA
920 MASSACHUSETTS STREET
LAWRENCE, KS 66044
P) 785-842-2292



| NO. | SHEET INDEX NAME | REVISION DATE |
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VERNON SCHOOL - INTERIOR REHABILITATION
PHASE 1
 3436 N 27TH STREET
 KANSAS CITY, KS 66104

Hernly
ASSOCIATES, Inc.

1100 Rhode Island
Lawrence, Kansas 66044
785 - 749 - 5806

COVERSHEET

Date: 6/27/2025
Drawn by: MEB
Checked by: SCH
Revisions:

1A0.0

**VERNON SCHOOL - INTERIOR REHABILITATION
PHASE 1**

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ARCHITECTURAL SITE
PLAN

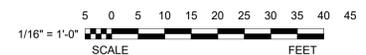
Date: 6/27/2025
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Revisions:

1A0.1



1 ARCHITECTURAL SITE PLAN

1/16" = 1'-0"



CODE REVIEW:

PROJECT NAME: VERNON MULTIPURPOSE CENTER - INTERIOR REHABILITATION PROJECT

PROJECT LOCATION: VERNON MULTIPURPOSE CENTER
3436 N 27TH STREET
KANSAS CITY, KS 66104

ARCHITECT: HERNLY ASSOCIATES, INC.
1100 RHODE ISLAND ST.
LAWRENCE, KANSAS 66044
P. 785-749-5806

GENERAL CONTRACTOR: TBD

BUILDING INSPECTION DEPT.: WYANDOTTE COUNTY, KS - PLANNING & URBAN DESIGN
CITY HALL
701 N 7TH ST, SUITE 423
KANSAS CITY, KS 66101

CODES/REGULATIONS UTILIZED:
2018 INTERNATIONAL BUILDING CODE
2018 INTERNATIONAL MECHANICAL CODE
2018 INTERNATIONAL FIRE CODE
2018 INTERNATIONAL PLUMBING CODE
2018 NFPA LIFE SAFETY CODE
2018 INTERNATIONAL ENERGY CONSERVATION COD
2018 INTERNATIONAL PROPERTY MAINTENANCE CODE
2017 NATIONAL ELECTRIC CODE

CONSTRUCTION: EXT: SOLID BRICK MASONRY (3 WYTHE) & CMU W/ BRICK VENEER;
INT: WOOD STUD WALLS W/ LATHE AND PLASTER

CONSTRUCTION TYPE: TYPE III-B (NON-SPRINKLED)

OCCUPANCY GROUPS: ASSEMBLY - GROUP A-3 (MUSEUM & COMMUNITY CENTER)

FIRE SPRINKLING: NONE

ALLOWABLE BUILDING HEIGHT: 2-STORY, 55 FEET (NON-SPRINKLED)

ACTUAL BUILDING HEIGHT: 1-STORY, 20 FEET

BASE ALLOWABLE BUILDING AREA: 9,500 S.F. (IBC TABLE 506.2) (A-3, NS, TYPE III-B CONSTRUCTION)

ALLOWABLE AREA CALCULATIONS:
506.3.2 MINIMUM FRONTAGE DISTANCE
 $W = (61'-9" \times 30' + 137'-11" \times 30' + 61'-9" \times 30' + 137'-11" \times 30') / 399.33$
 $W = 30$

506.3.3 AMOUNT OF INCREASE
 $I_p = [F/P - .25] W / 30$
 $I_p = [1 - .25] / 1$
 $I_p = .75$ OR 75%

SINGLE-OCCUPANCY, ONE-STORY BUILDINGS
 $I_p = (1290/1290 - 0.25)1 = 75\%$
NS (TABULAR ALLOWABLE AREA FACTOR FOR NONSPRINKLERED BUILDING) = 6,000 S.F.

$A_a = [9,500 + (9,500 \times 75\%)] = 16,625$ S.F.
 $A_a = 16,625$ S.F.

NET FLOOR AREA:

| | |
|-------------------------|--------------|
| CIRCULATION | - 1,587 S.F. |
| QUINDARO VISITOR CENTER | - 598 S.F. |
| VERNON COMMUNITY CENTER | - 1,259 S.F. |
| CONFERENCE ROOM | - 609 S.F. |
| KITCHEN | - 276 S.F. |
| STORAGE | - 271 S.F. |
| WOMENS | - 167 S.F. |
| MENS | - 111 S.F. |
| JANITOR | - 48 S.F. |
| QUINDARO MUSEUM | - 1,198 S.F. |
| BUSINESS | - 115 S.F. |
| STORAGE | - 171 S.F. |
| TOTAL NET FLOOR AREA | - 6,410 S.F. |

GROSS FLOOR AREA: TOTAL GROSS FLOOR AREA: - 6,488 S.F.
6,488 S.F. < 16,625 S.F. ALLOWED

TOTAL OCCUPANCY: 182 OCCUPANTS

EXITS REQUIRED: 2 EXITS

NUMBER OF EXITS PROVIDED: 1ST STORY = 4 EXITS
BASEMENT = 1 EXIT (1 EXIT REQUIRED - DOES NOT EXCEED 75'-0" COMMON PATH OF EGRESS)

REQUIRED EGRESS WIDTH: 2" X 182 = 36.4" REQUIRED AT EXTERIOR DOORS; 158" PROVIDED

MAXIMUM ALLOWABLE TRAVEL DISTANCE: 200 FEET NON-SPRINKLED

ACTUAL MAXIMUM TRAVEL DISTANCE: 71'-10"

FIRE SAFETY:

AUTOMATIC FIRE SPRINKLER: NONE

FIRE ALARM SYSTEM & SMOKE DETECTION: PROVIDED; SEE ELECTRICAL DRAWINGS

FIRE EXTINGUISHERS: 6a-10bc - PER PLAN - 75' MAX TRAVEL DISTANCE

EMERGENCY/EXIT LIGHTING: SEE ELECTRICAL DRAWINGS

SAFETY GLAZING: PROVIDE SAFETY GLAZING IN DOORS AND FIXED PANELS ADJACENT TO DOORS COMPLYING WITH 2018 IBC CHAPTER 24

PLUMBING REQUIREMENTS

FIXTURE FACTORS

| | |
|--------------------|--------------------|
| WATER CLOSETS | - 1:125 M / 1:65 F |
| LAVATORIES | - 1:200 |
| DRINKING FOUNTAINS | - 1:500 |
| OTHER | - 1 SERVICE SINK |

TOTAL OCCUPANCY: 182 PEOPLE

OCCUPANCY PER GENDER: 91 PER GENDER

FIXTURE CALCULATIONS

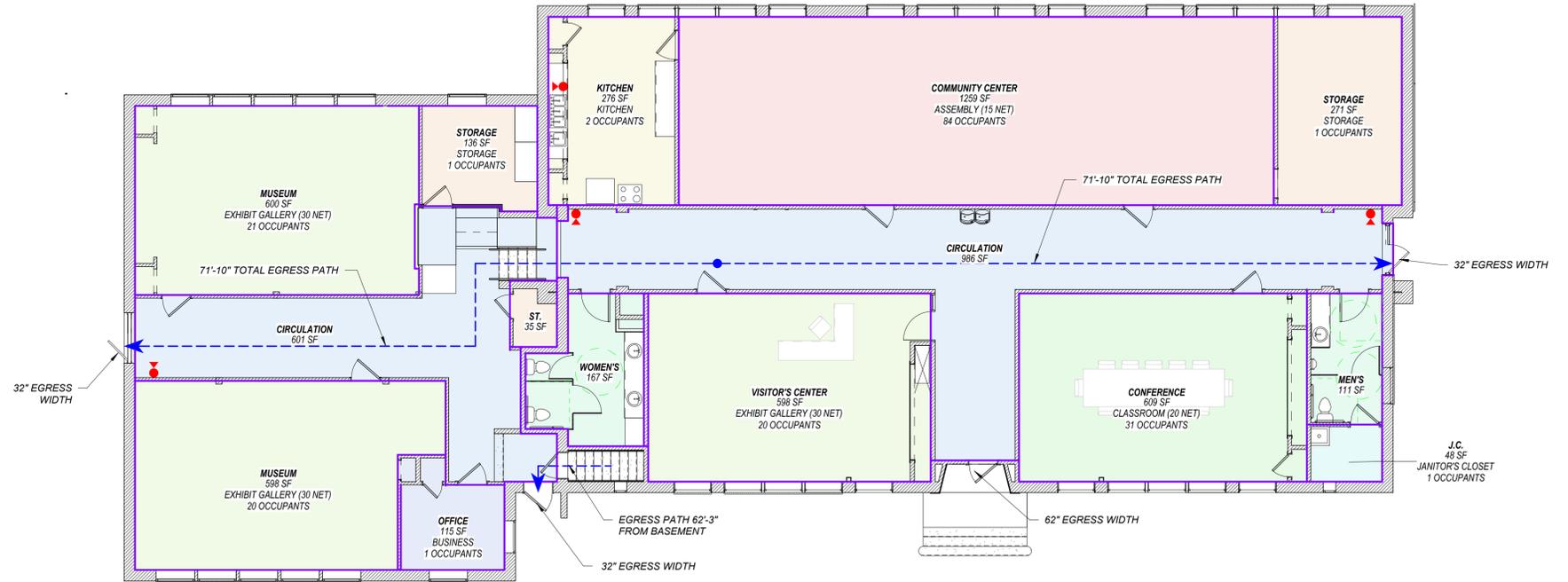
WATER CLOSETS: 91 / 125 = 1 (MALE); 2 PROVIDED
91 / 65 = 2 (FEMALE); 2 PROVIDED

LAVATORIES: 182 / 200 = 1; 2 PROVIDED

DRINKING FOUNTAINS: 182 / 500 = 1; 1 PROVIDED

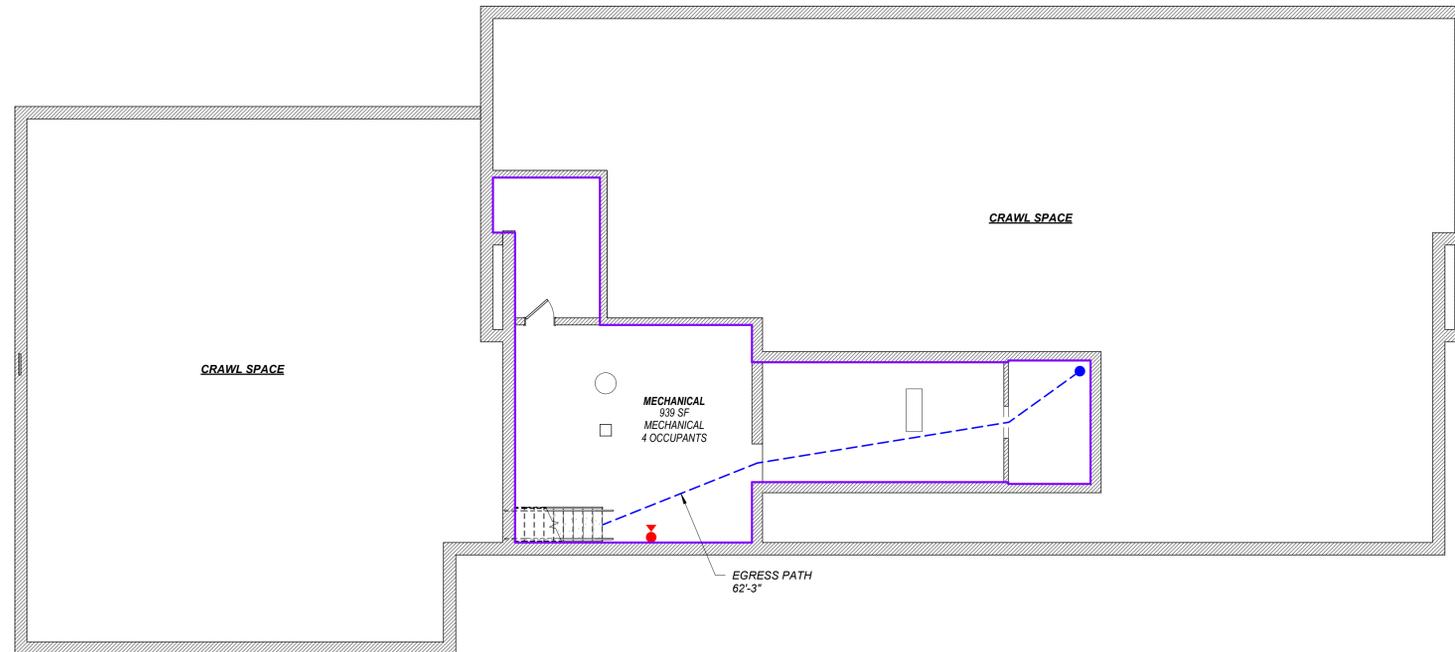
OTHER: 1 SERVICE SINK; 1 PROVIDED

ADA NOTE:
THIS SITE HAS BEEN DESIGNED WITHIN REASONABLE PROFESSIONAL EFFORTS TO COMPLY WITH THE PROVISIONS OF THE AMERICAN WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES (ADAAG) FOR BUILDINGS AND FACILITIES. APPENDIX A TO 28 CFR PART 36. NO WARRANTY IS GIVEN THAT THIS SITE COMPLIES WITH ALL INTERPRETATIONS OF SAID PROVISIONS.



1 1ST STORY

1/8" = 1'-0"



3 BASEMENT

1/8" = 1'-0"

2 CODE NOTES

12" = 1'-0"

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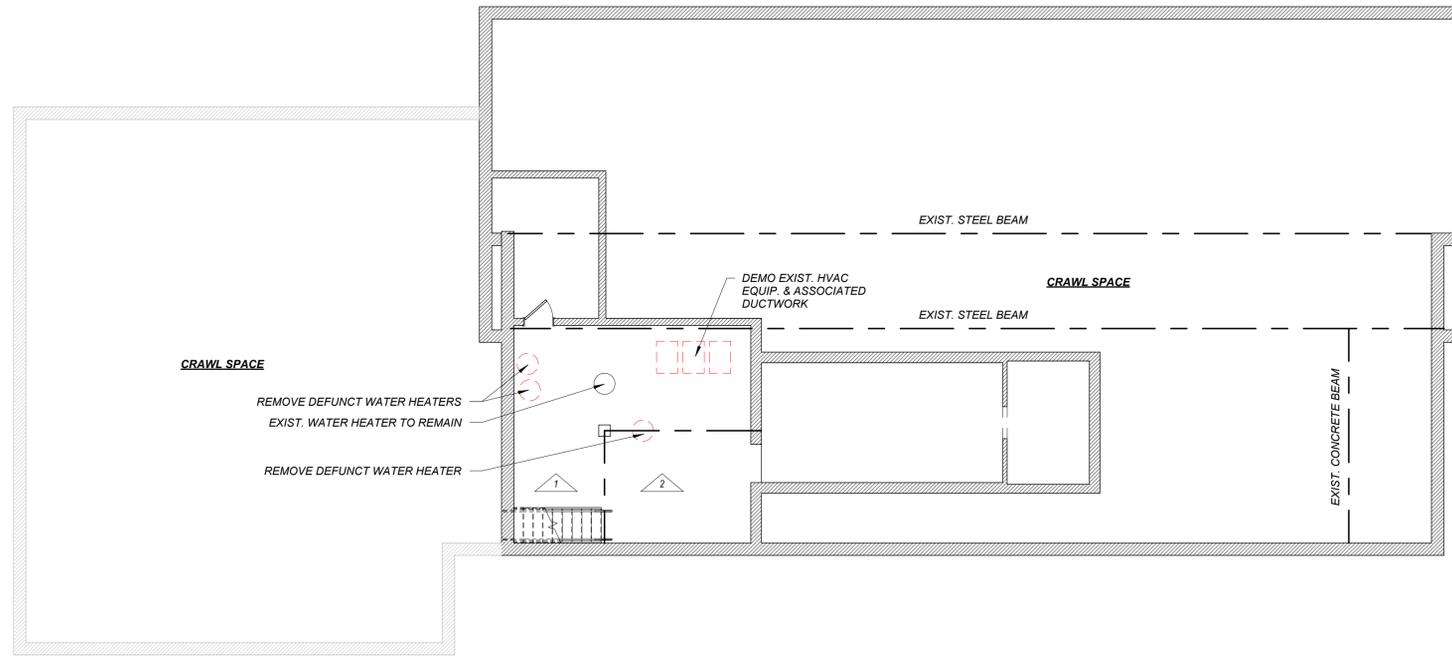


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CODE PLAN

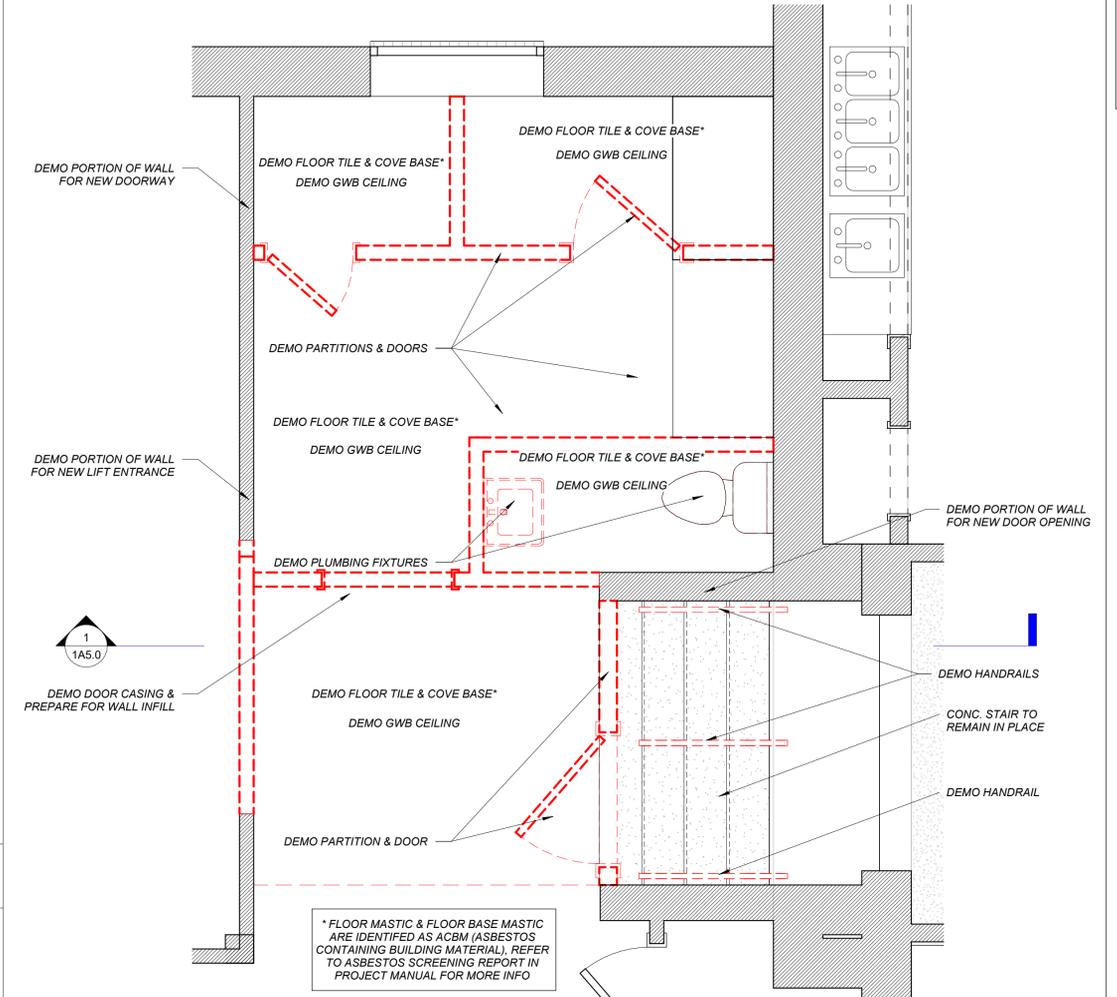
Date: 6/27/2025
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Checked by: SCH
Revisions:

1A0.2



1 DEMO PLAN - BASEMENT

1/8" = 1'-0"

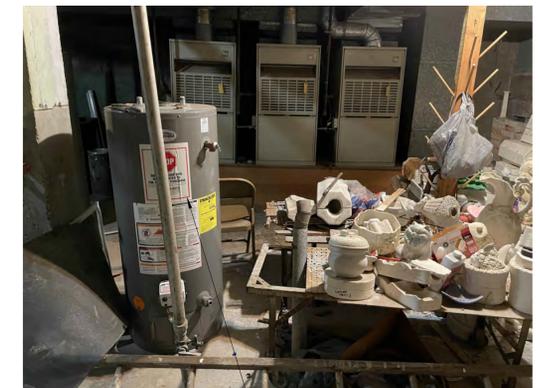


2 ALT 1 - DEMO PLAN

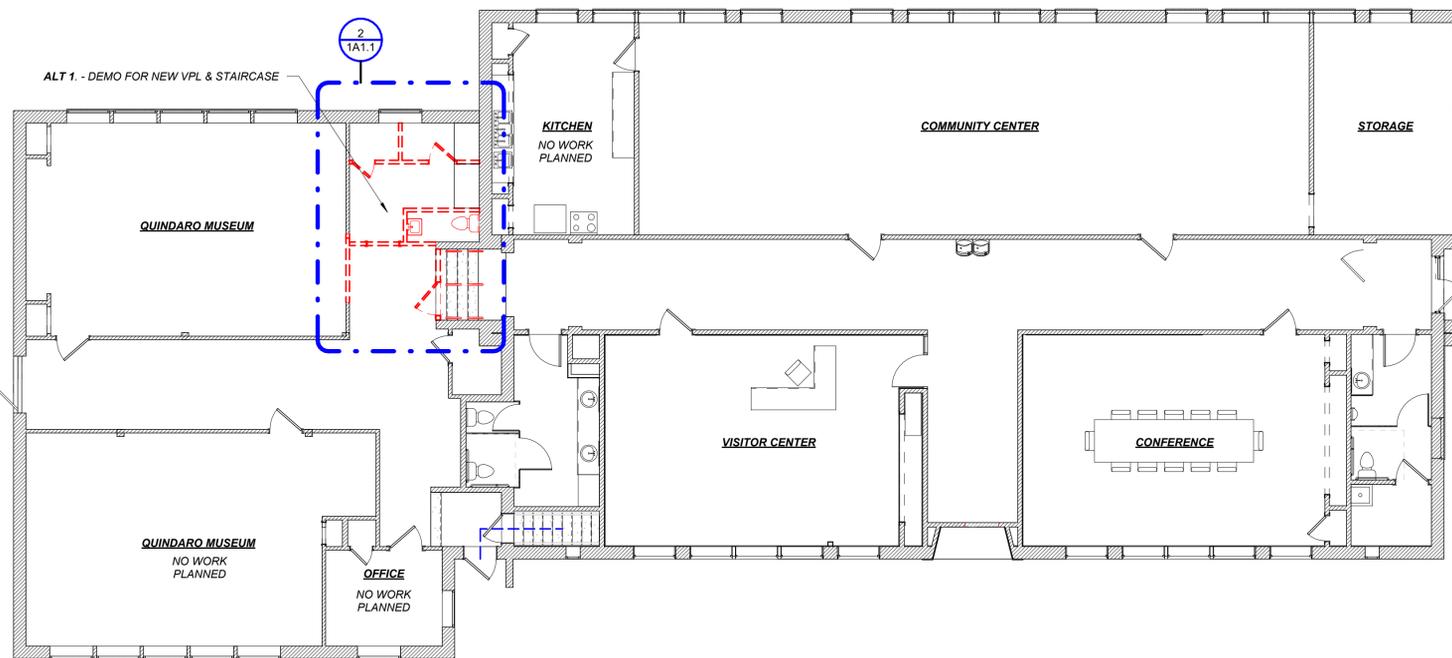
1/2" = 1'-0"



1. REMOVE DEFUNCT WATER HEATERS

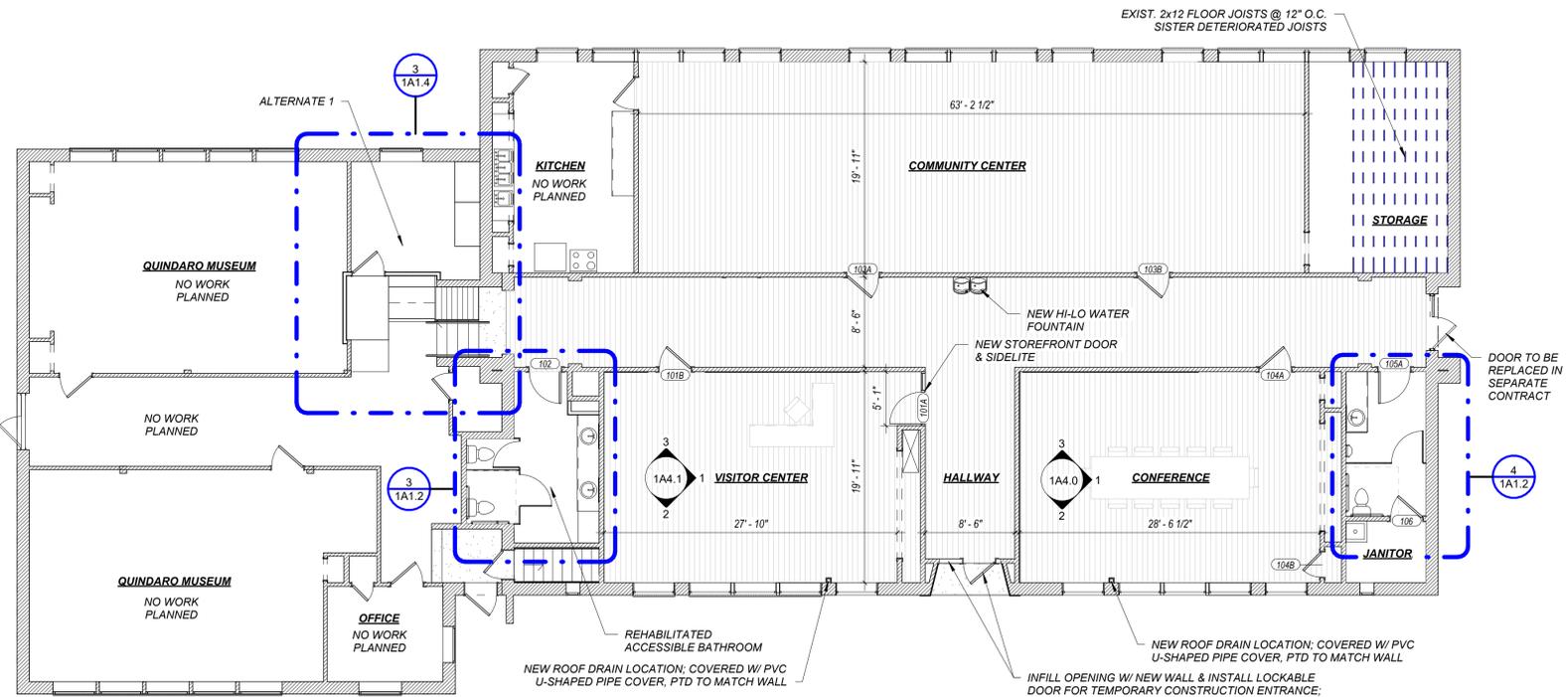


2. REMOVE DEFUNCT WATER HEATER

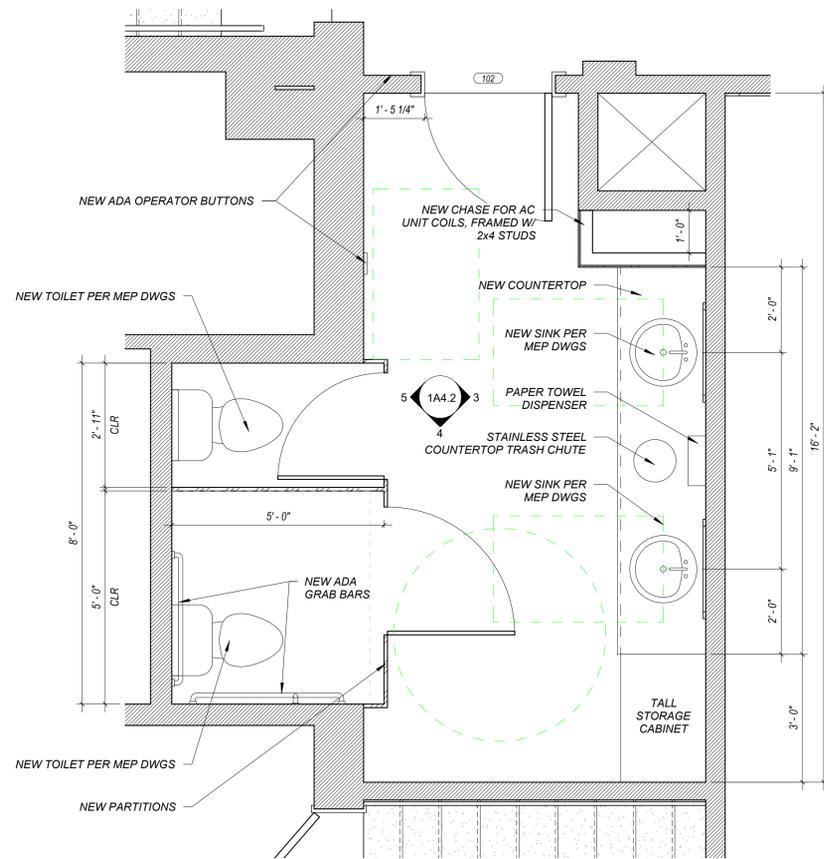


3 DEMO PLAN - 1ST STORY

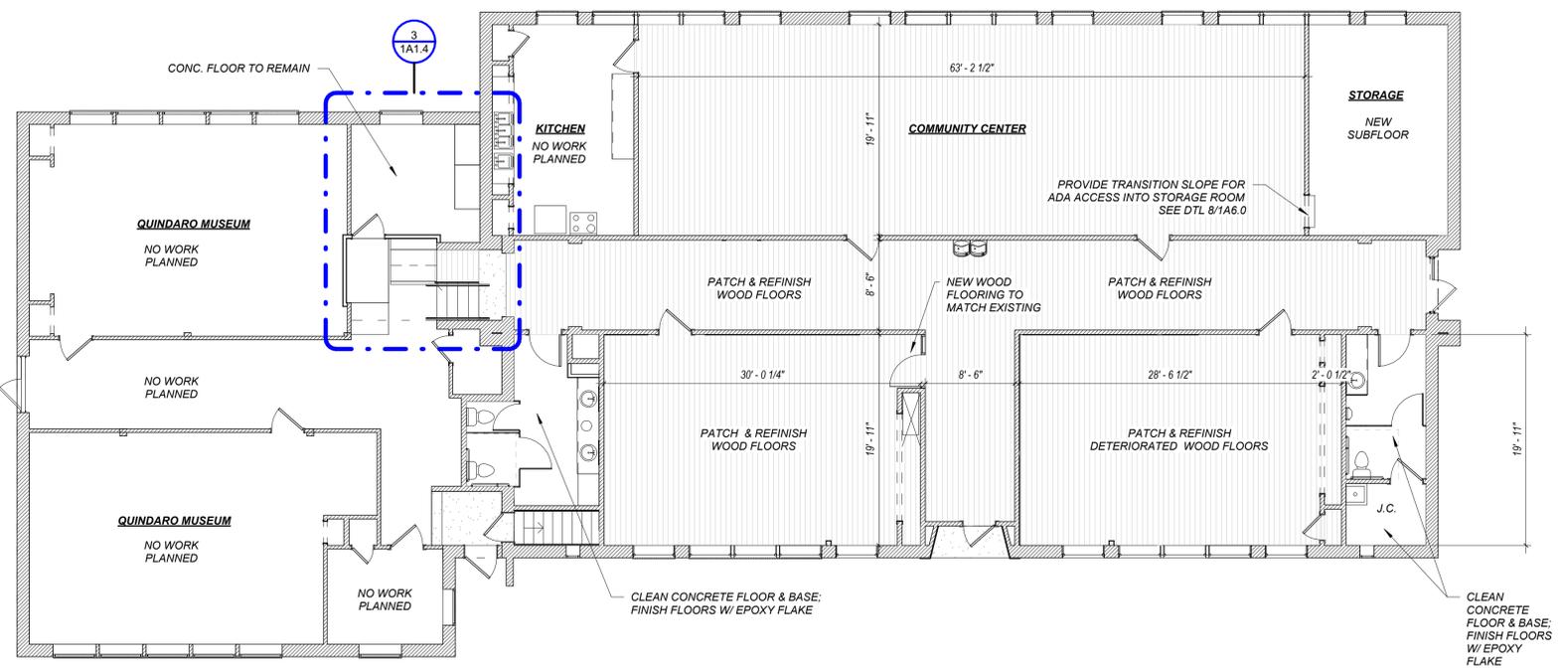
1/8" = 1'-0"



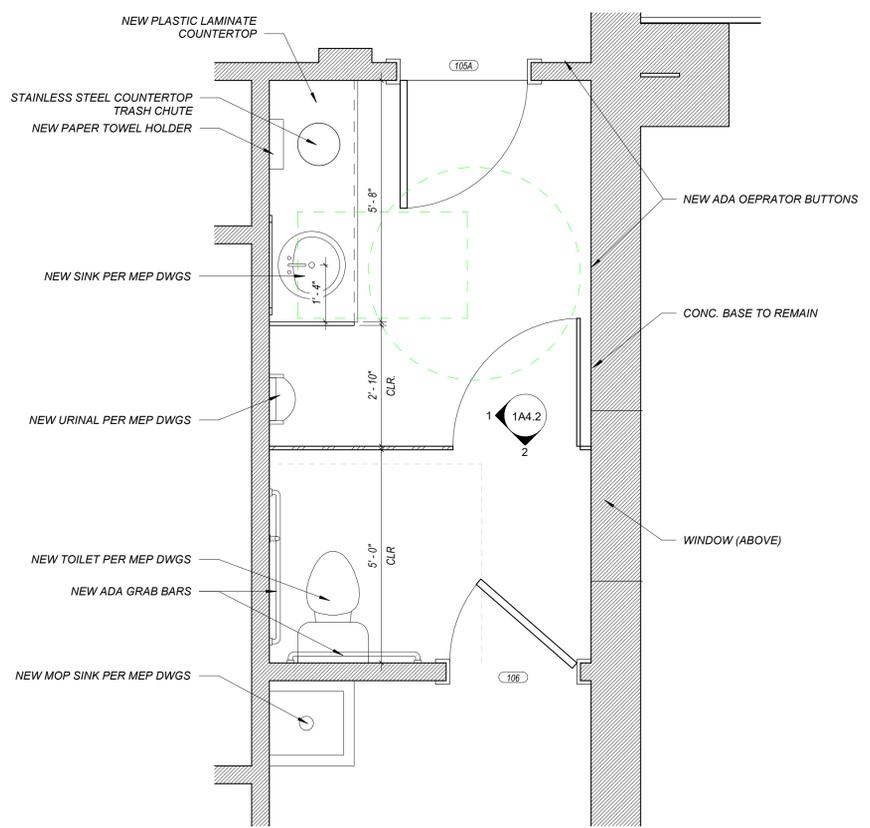
1 IMPROVEMENT PLAN - 1ST STORY
1/8" = 1'-0"



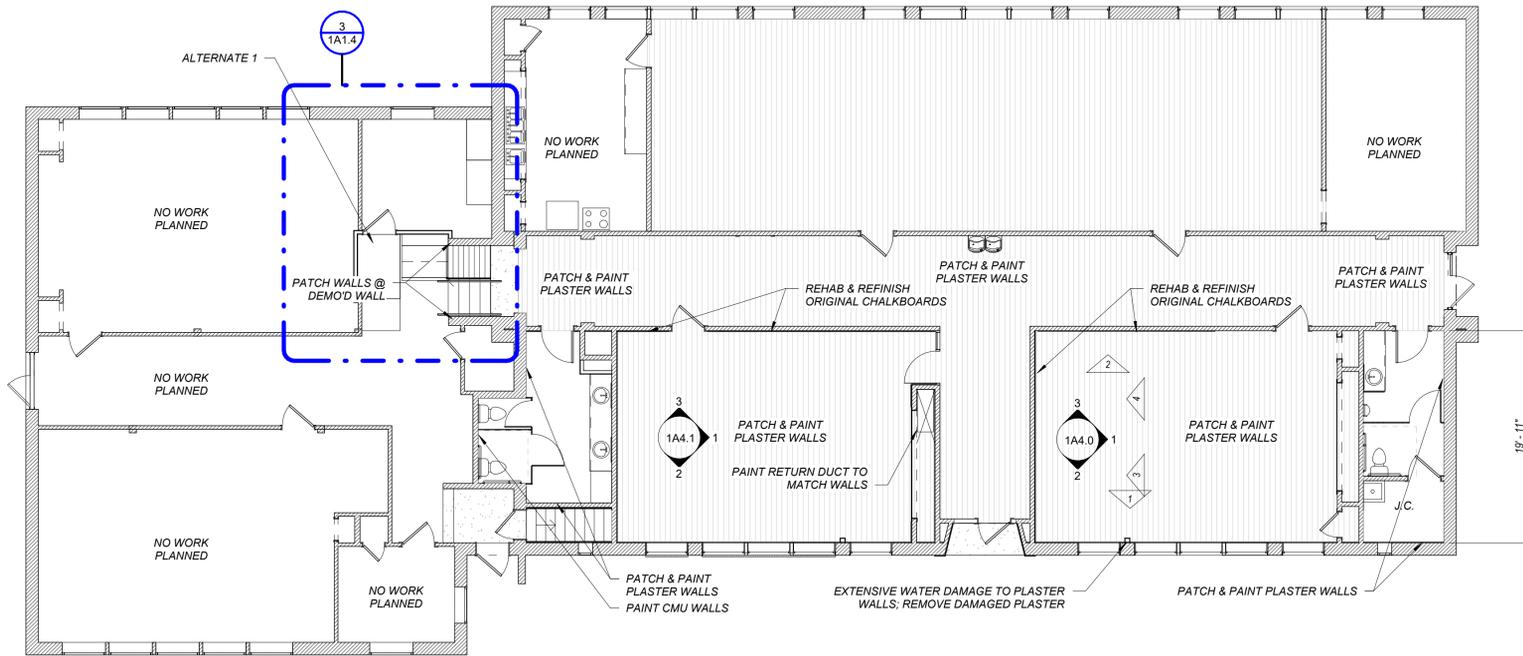
3 PHASE 1 - WOMEN'S BATHROOM
1/2" = 1'-0"



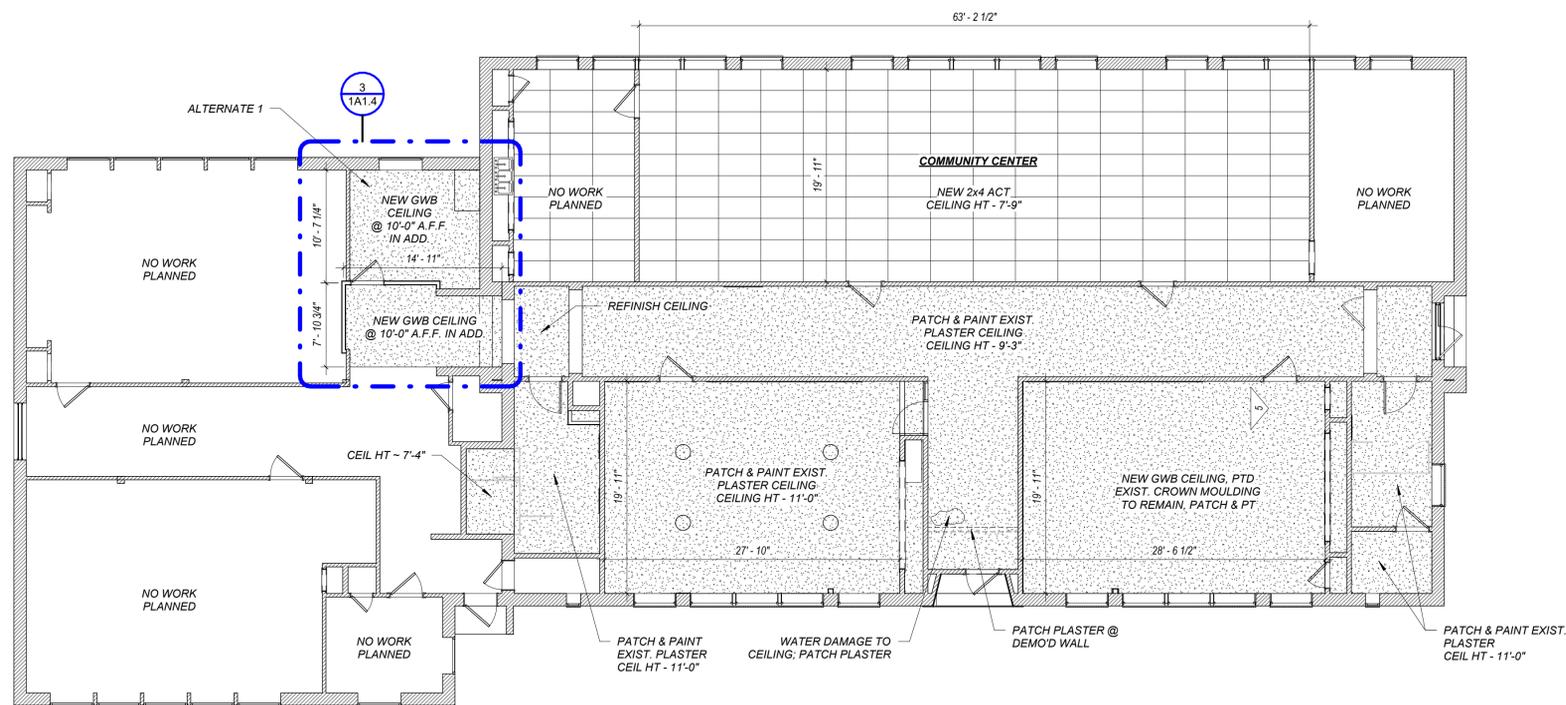
2 FLOORING REPAIR PLAN - 1ST STORY
1/8" = 1'-0"



4 MEN'S BATHROOM & JANITOR'S CLOSET
1/2" = 1'-0"



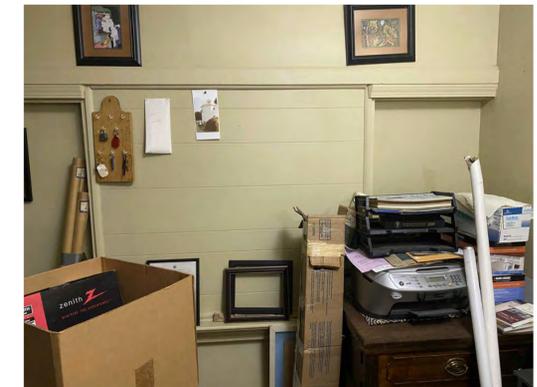
1 WALL FINISH REPAIR PLAN - 1ST STORY
1/8" = 1'-0"



2 CEILING FINISH REPAIR PLAN - 1ST STORY
1/8" = 1'-0"



1.



2.



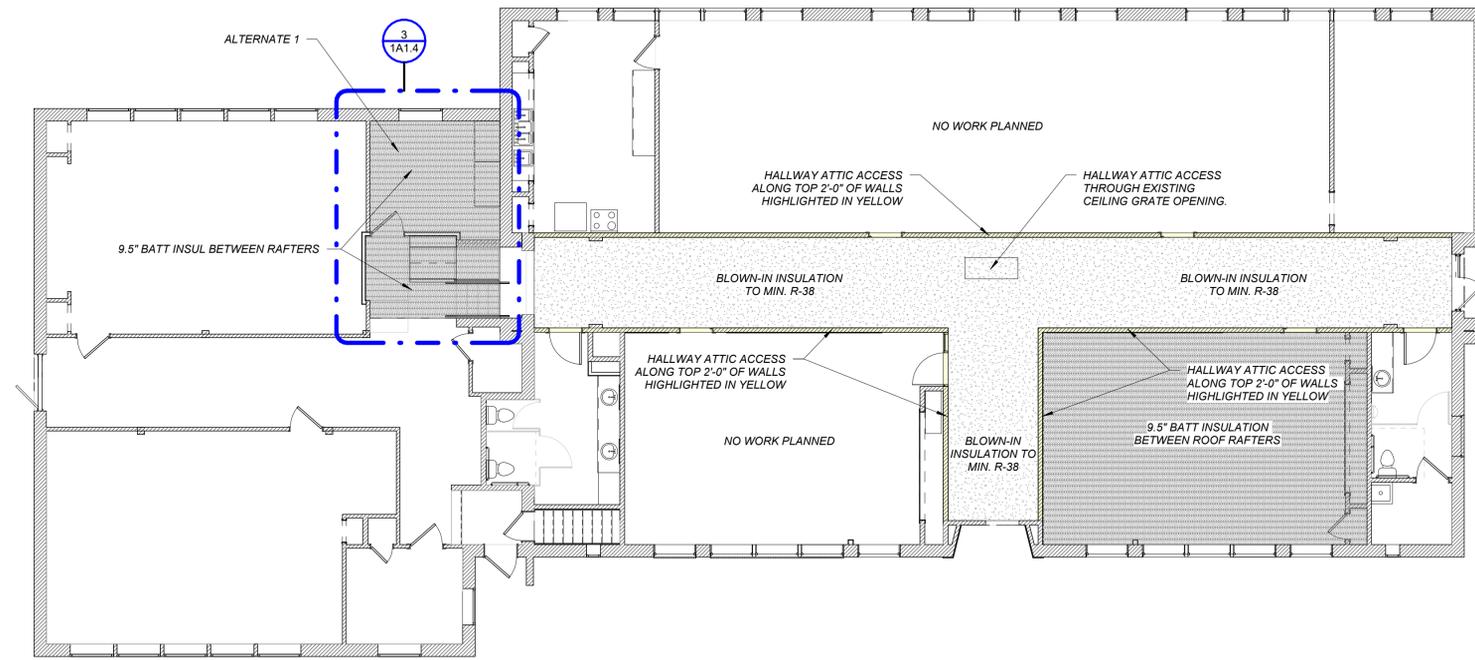
3.



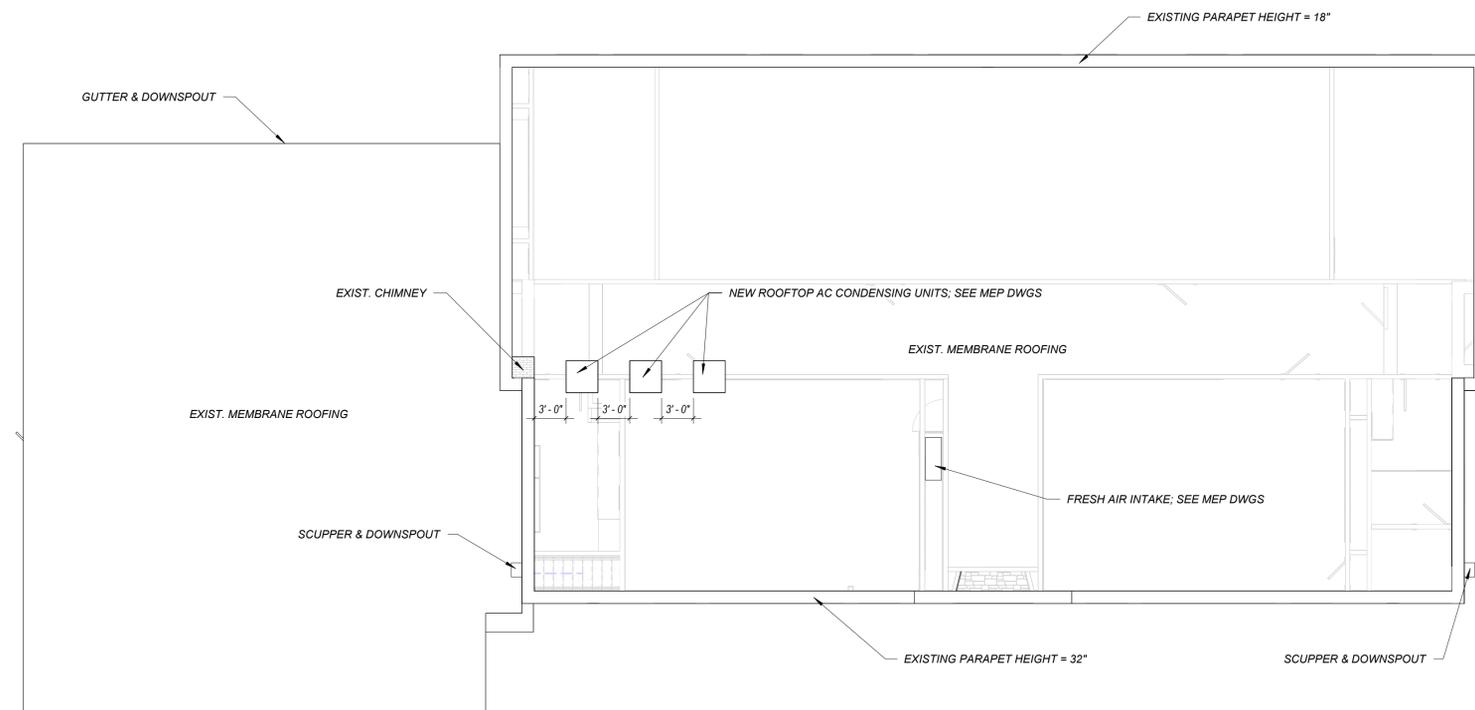
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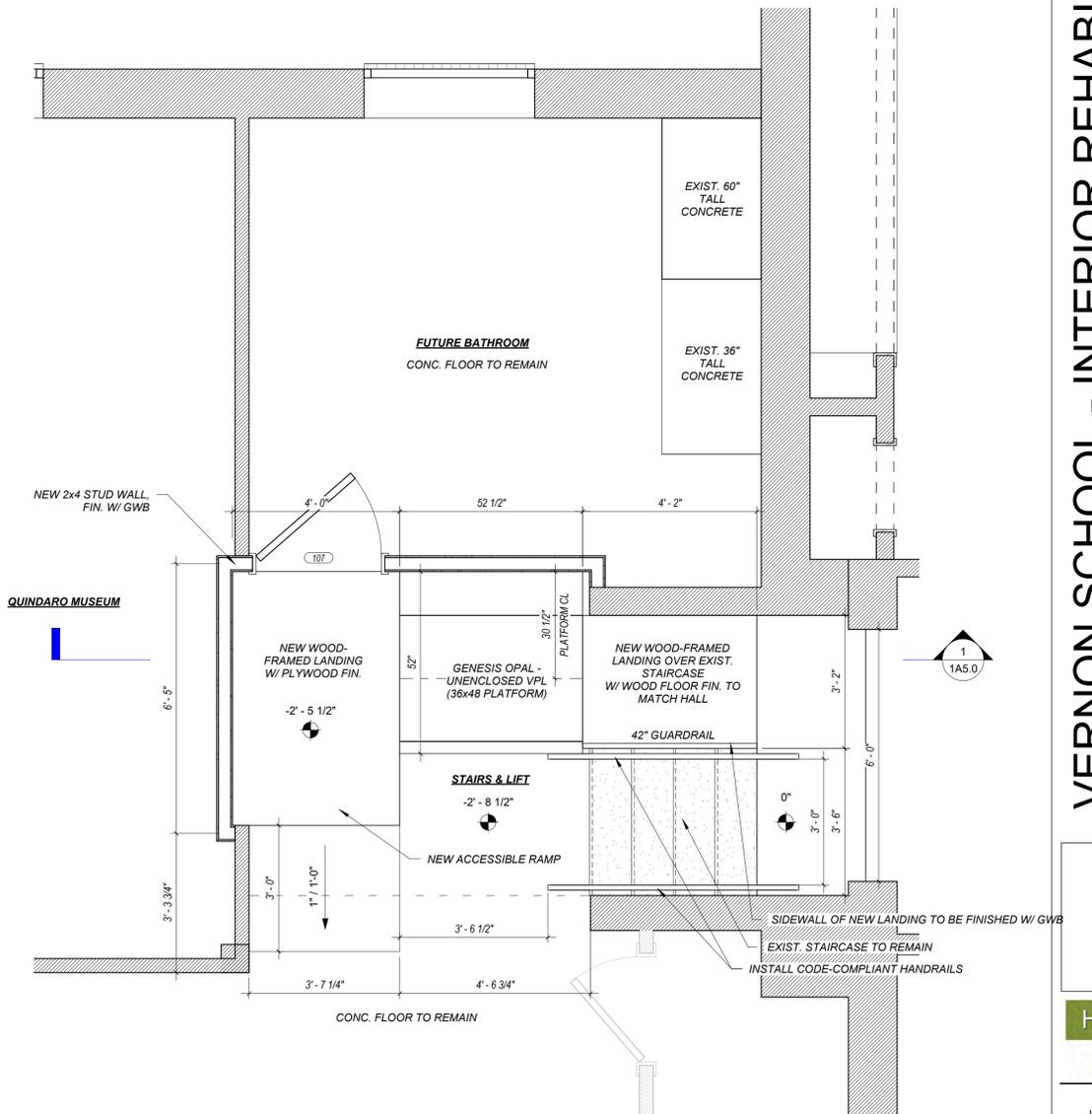
5. EXIST. CROWN MLDING



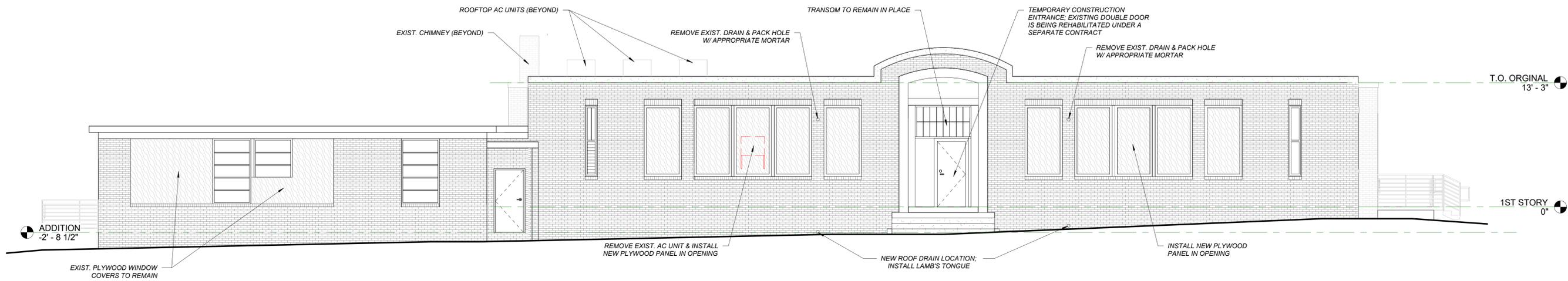
1 INSULATION PLAN - 1ST STORY
 1/8" = 1'-0"



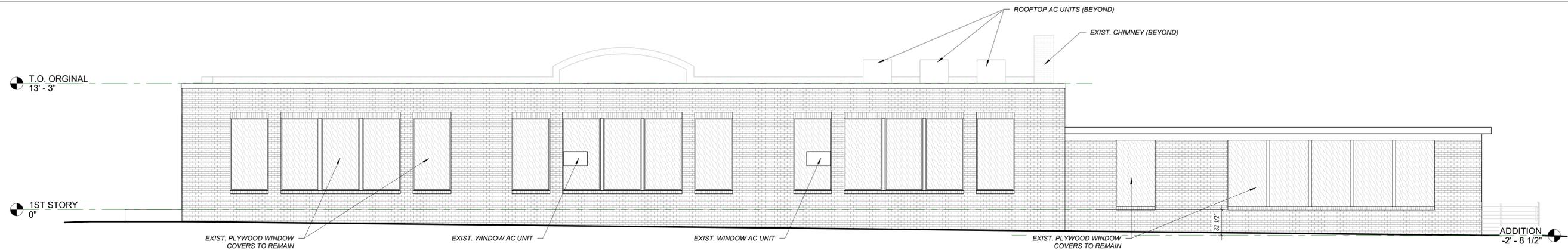
2 ROOF PLAN - PHASE 1
 1/8" = 1'-0"



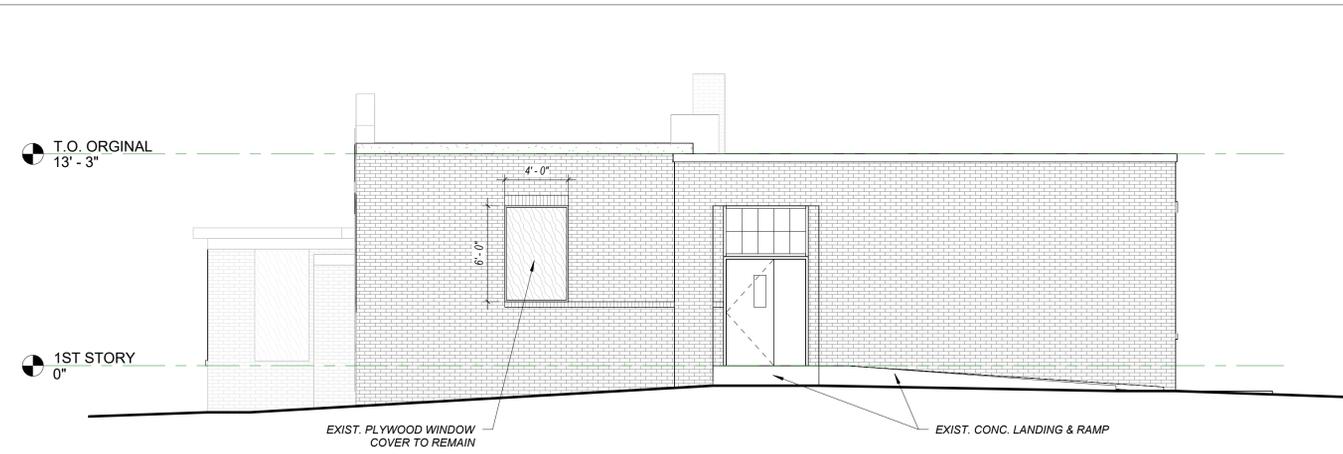
3 ALTERNATE 1
 1/2" = 1'-0"



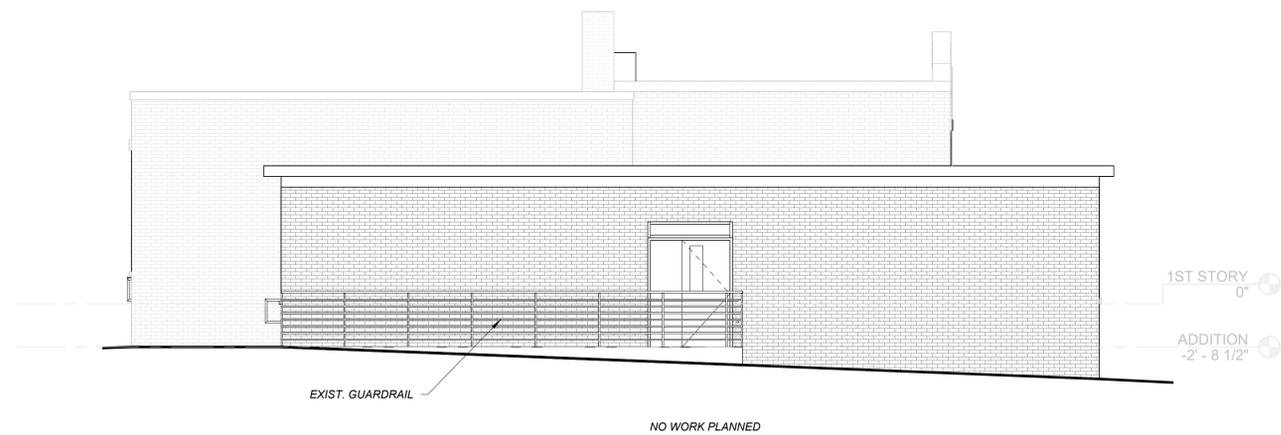
1 EAST ELEVATION
3/16" = 1'-0"



2 WEST ELEVATION
3/16" = 1'-0"



3 NORTH ELEVATION
3/16" = 1'-0"



4 SOUTH ELEVATION
3/16" = 1'-0"

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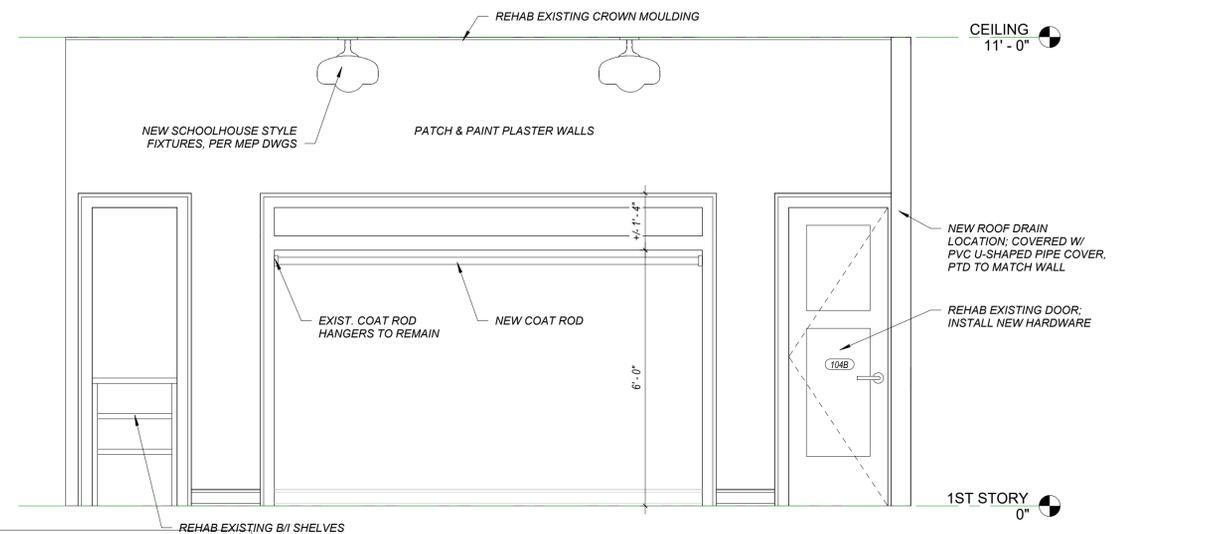
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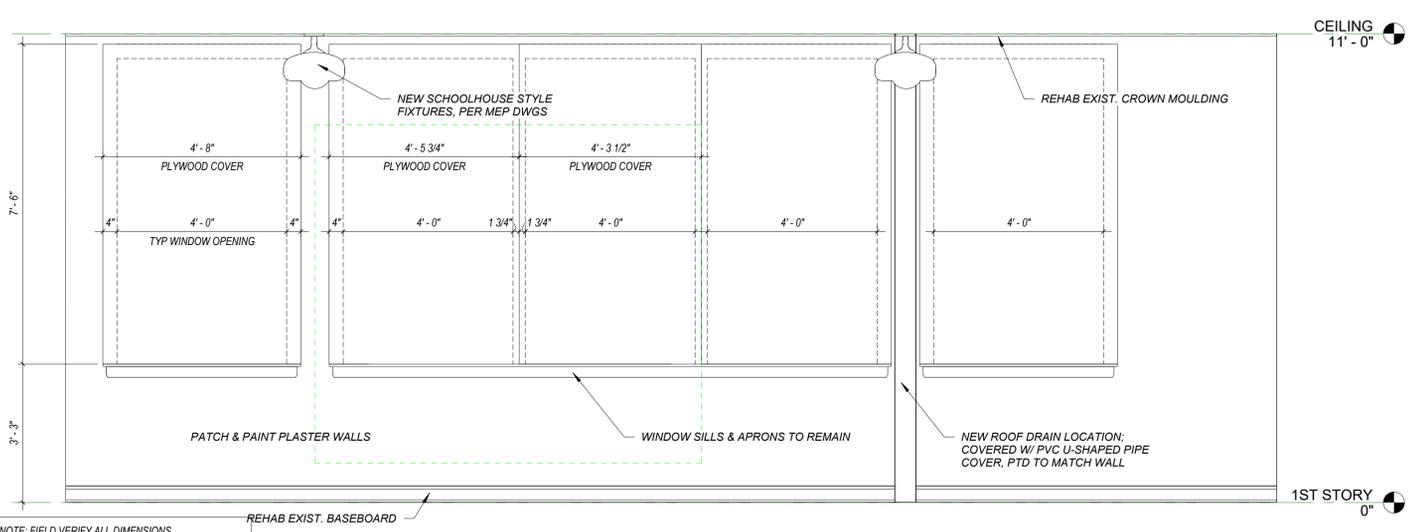
ELEVATIONS

Date: 6/27/2025
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Checked by: SCH
Revisions:

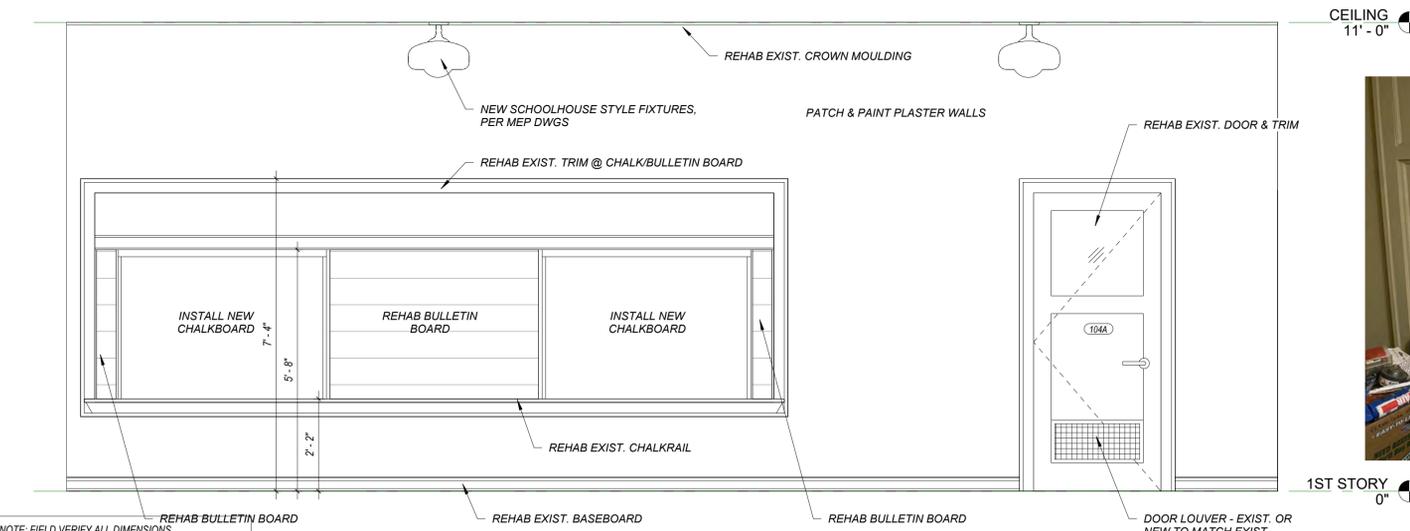
1A2.0



1 NORTHEAST CLASSROOM - NORTH ELEVATION
1/2" = 1'-0"



2 NORTHEAST CLASSROOM - EAST ELEVATION
1/2" = 1'-0"



3 NORTHEAST CLASSROOM - WEST ELEVATION
1/2" = 1'-0"

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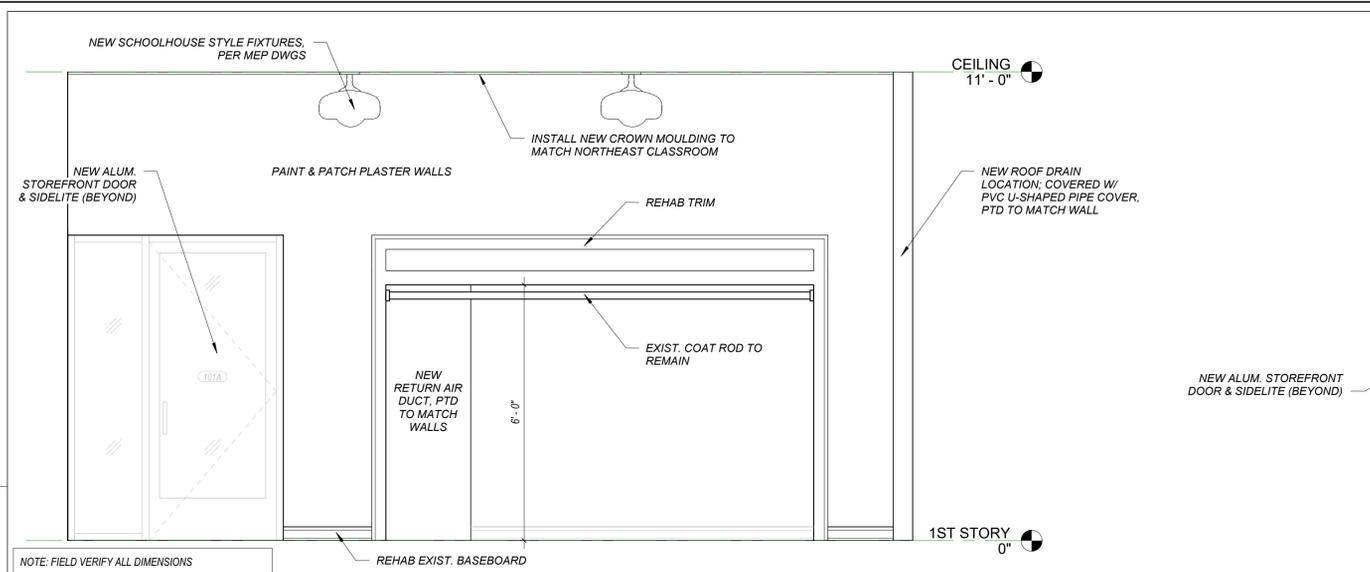


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INTERIOR ELEVATIONS

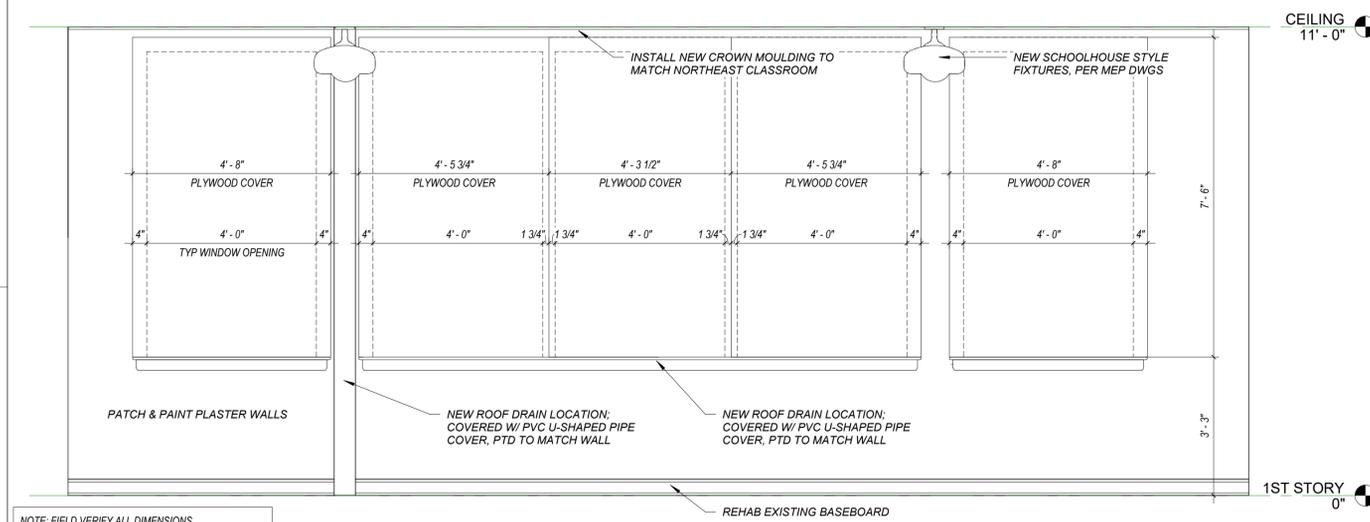
Date: 6/27/2025
Drawn by: Author
Checked by: SCH
Revisions:

1A4.0

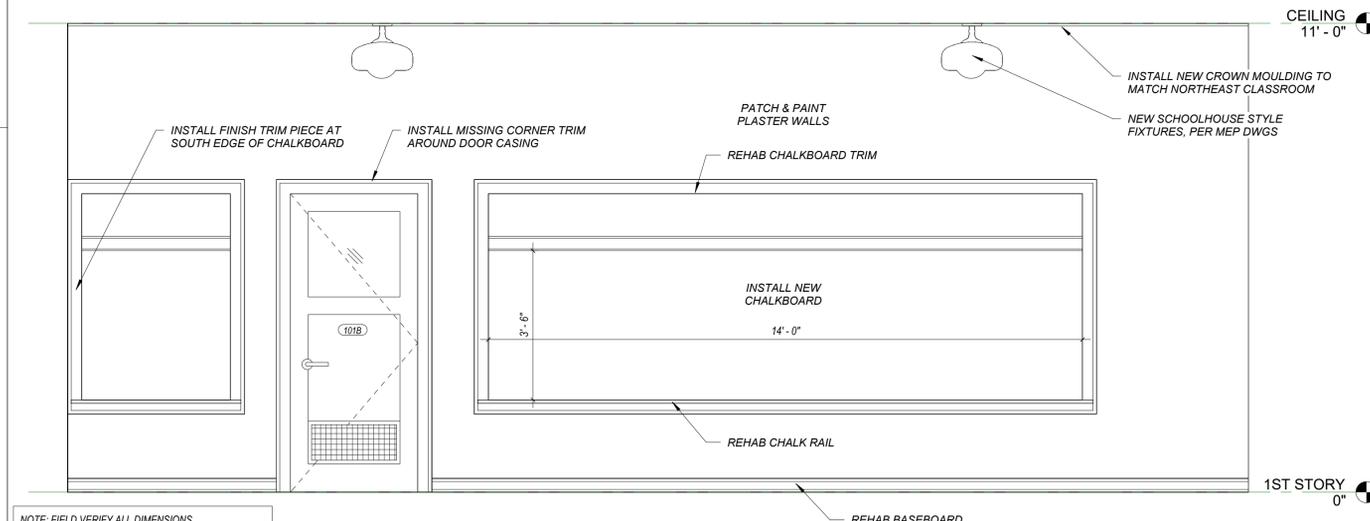


PATCH & PAINT PLASTER WALLS & CEILING
 REMOVE DOORS & ADDED MULLIONS

1 SOUTHEAST CLASSROOM - NORTH ELEVATION
 1/2" = 1'-0"



2 SOUTHEAST CLASSROOM - EAST ELEVATION
 1/2" = 1'-0"



DEMO PARTITION WALL

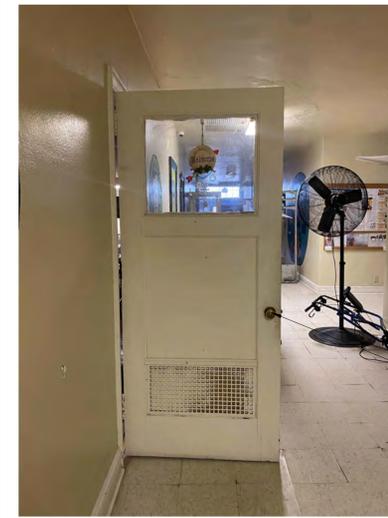
3 SOUTHEAST CLASSROOM - WEST ELEVATION
 1/2" = 1'-0"



101 B - VISITOR CENTER DOOR (NTS)



102 - WOMEN'S BATHROOM DOOR (NTS)



103 A - COMMUNITY ROOM DOOR (NTS)



103 B - COMMUNITY ROOM DOOR (NTS)



104A CONFERENCE ROOM DOOR (NTS)



105A MEN'S BATHROOM DOOR (NTS)



105 B - (NTS)

| DOOR SCHEDULE | | | | | | | | | | |
|---------------|-----------|-------|------------------|-------|--------|------------|----------------|------------------------|--|---|
| DOOR # | TYPE MARK | COUNT | LOCATION | SIZE | | FRAME TYPE | FRAME MATERIAL | DOOR MATERIAL | HARDWARE | COMMENTS |
| | | | | WIDTH | HEIGHT | | | | | |
| 101A | SGL | 1 | VISITOR CENTER | 3'-0" | 7'-0" | FLUSH | WOOD, PTD | WOOD, PTD w/ HALF-LITE | LEVER HANDLE, PASSAGE LATCH, ENTRANCE LOCKSET | NEW |
| 101B | SGL | 1 | VISITOR CENTER | 3'-0" | 7'-0" | FLUSH | WOOD, PTD | WOOD, PTD w/ HALF-LITE | LEVER HANDLE, PASSAGE LATCH, ENTRANCE LOCKSET | EXISTING, REMOVE PANEL OVER THE HALF-LITE AND INSTALL NEW GLASS |
| 102 | SGL | 1 | WOMEN'S | 3'-0" | 7'-0" | FLUSH | WOOD, PTD | WOOD, PTD | LEVER HANDLE, PASSAGE LATCH, CLOSER, ADA DOOR OPERATOR | EXISTING |
| 103A | SGL | 1 | COMMUNITY CENTER | 3'-0" | 7'-0" | FLUSH | WOOD, PTD | WOOD, PTD w/ HALF-LITE | LEVER HANDLE, PASSAGE LATCH, ENTRANCE LOCKSET | EXISTING, REMOVE ADDED BOTTOM PANEL TO EXPOSE DOOR LOUVER |
| 103B | SGL | 1 | COMMUNITY CENTER | 3'-0" | 7'-0" | FLUSH | WOOD, PTD | WOOD, PTD w/ HALF-LITE | LEVER HANDLE, PASSAGE LATCH, ENTRANCE LOCKSET | EXISTING, REMOVE ADDED BOTTOM PANEL TO EXPOSE DOOR LOUVER |
| 104A | SGL | 1 | CONFERENCE | 3'-0" | 7'-0" | FLUSH | WOOD, PTD | WOOD, PTD w/ HALF-LITE | LEVER HANDLE, PASSAGE LATCH, ENTRANCE LOCKSET | EXISTING, REMOVE ADDED BOTTOM PANEL TO EXPOSE DOOR LOUVER |
| 104B | SGL | 1 | CONFERENCE | 2'-4" | 7'-0" | FLUSH | WOOD, PTD | WOOD, PTD | LEVER HANDLE, PASSAGE LATCH, STORAGE LOCKSET | EXISTING |
| 105A | SGL | 1 | MEN'S BATHROOM | 3'-0" | 7'-0" | FLUSH | WOOD, PTD | WOOD, PTD | LEVER HANDLE, PASSAGE LATCH, CLOSER, ADA DOOR OPERATOR | EXISTING |
| 106 | SGL | 1 | JANITOR | 3'-0" | 7'-0" | FLUSH | WOOD, PTD | WOOD, PTD | LEVER HANDLE, PASSAGE LATCH, STORAGE LOCKSET | NEW |
| 107 | SGL | 1 | FUTURE BATHROOM | 3'-0" | 6'-8" | FLUSH | WOOD, PTD | WOOD, PTD | LEVER HANDLE, PASSAGE LATCH, STORAGE LOCKSET | NEW |

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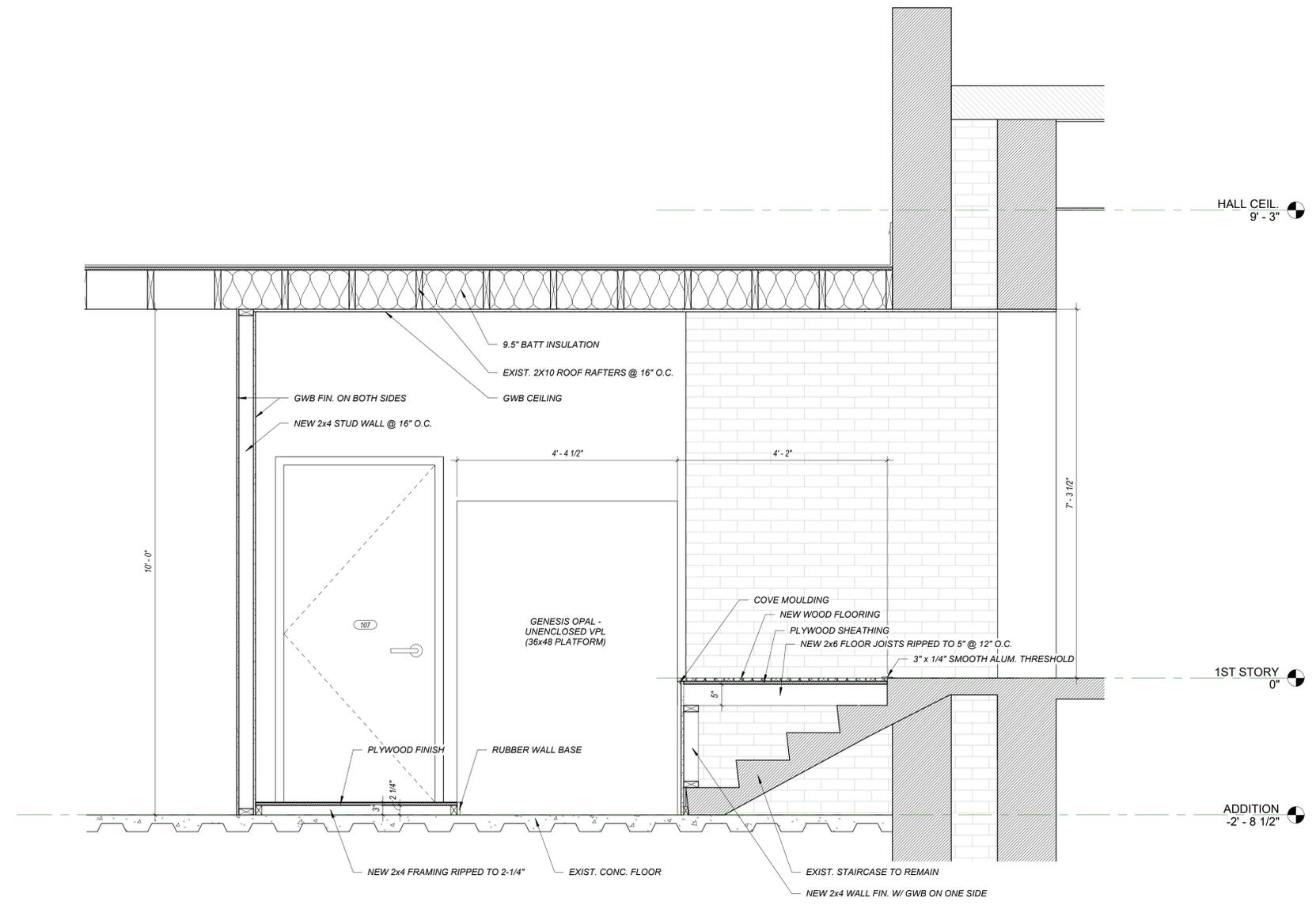


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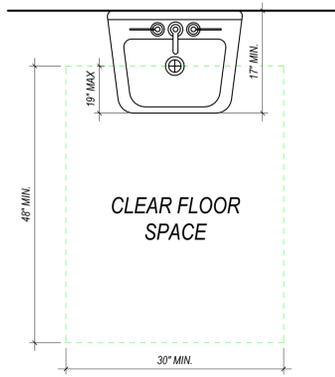
SECTIONS

Date: 6/27/2025
Drawn by: MEB
Checked by: SCH
Revisions:

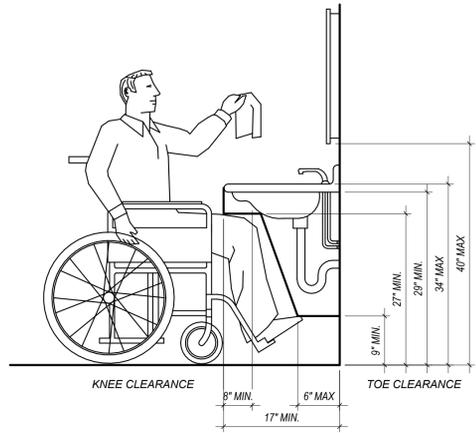
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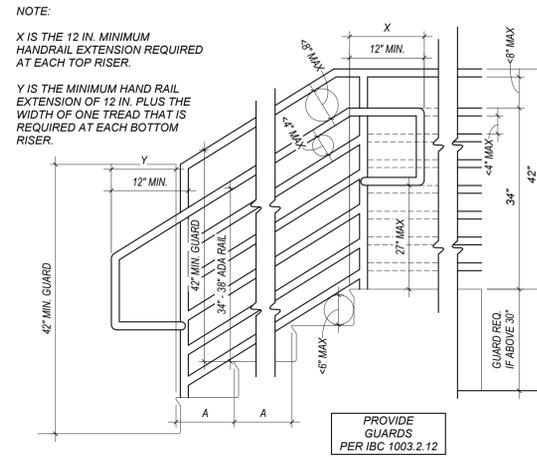
1 ALTERNATE 1 - SECTION 1
3/4" = 1'-0"



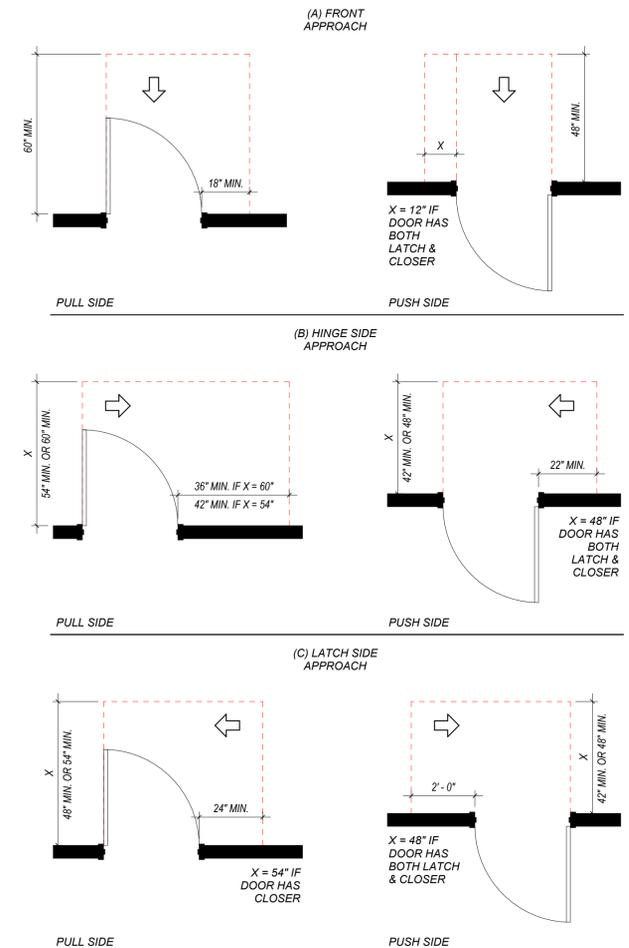
1 DET-LAV CLEARANCE
NOT TO SCALE



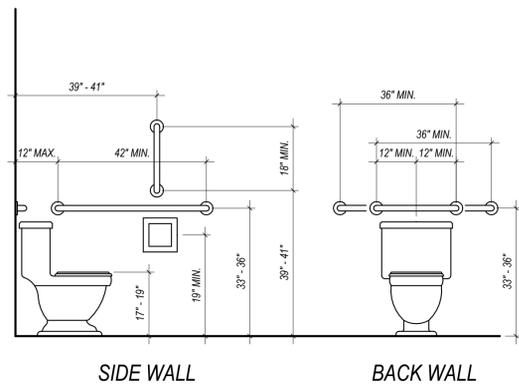
2 TYP. LAV. CLEARANCE
NOT TO SCALE



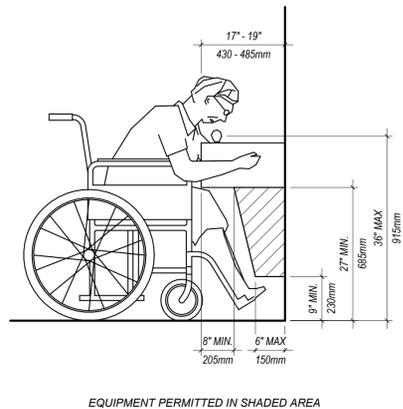
3 TYP. HANDRAIL & GUARDS
NOT TO SCALE



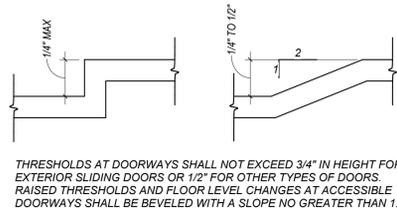
7 TYP. DOOR APPROACHES
NOT TO SCALE



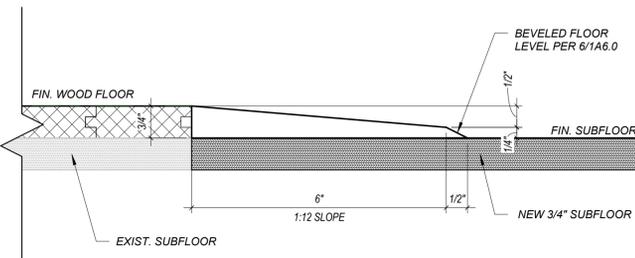
4 DET-TYP. GRAB BARS
NOT TO SCALE



5 TYP. DRINK. FOUNTAIN
NOT TO SCALE



6 FLOOR LEVEL CHANGES
NOT TO SCALE

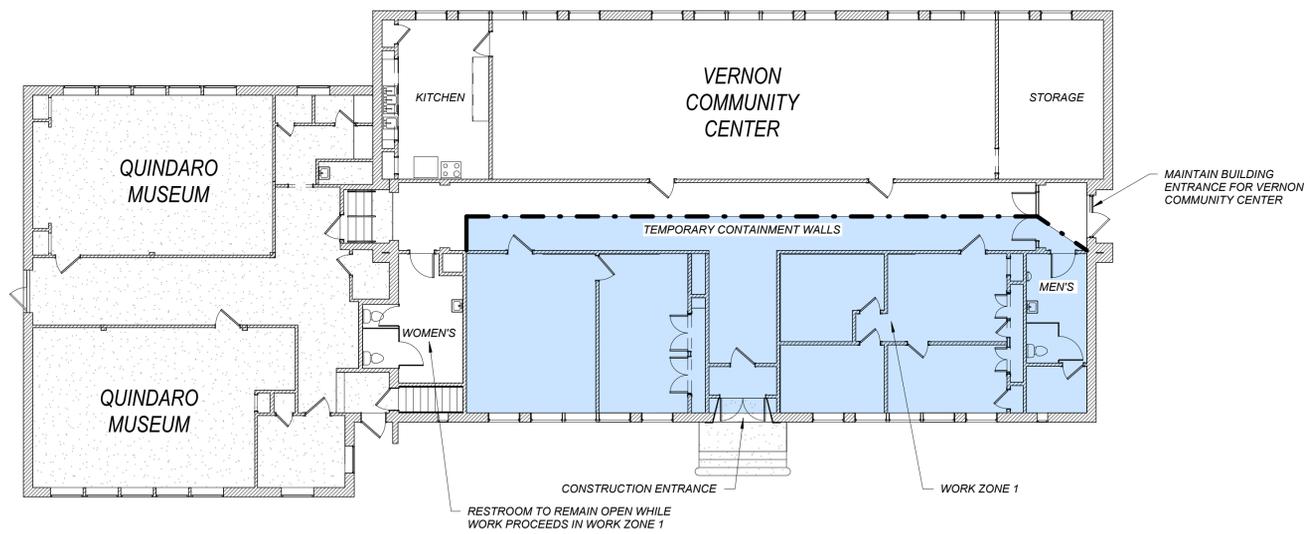


8 FLOOR LEVEL CHANGES @ STG
6" = 1'-0"

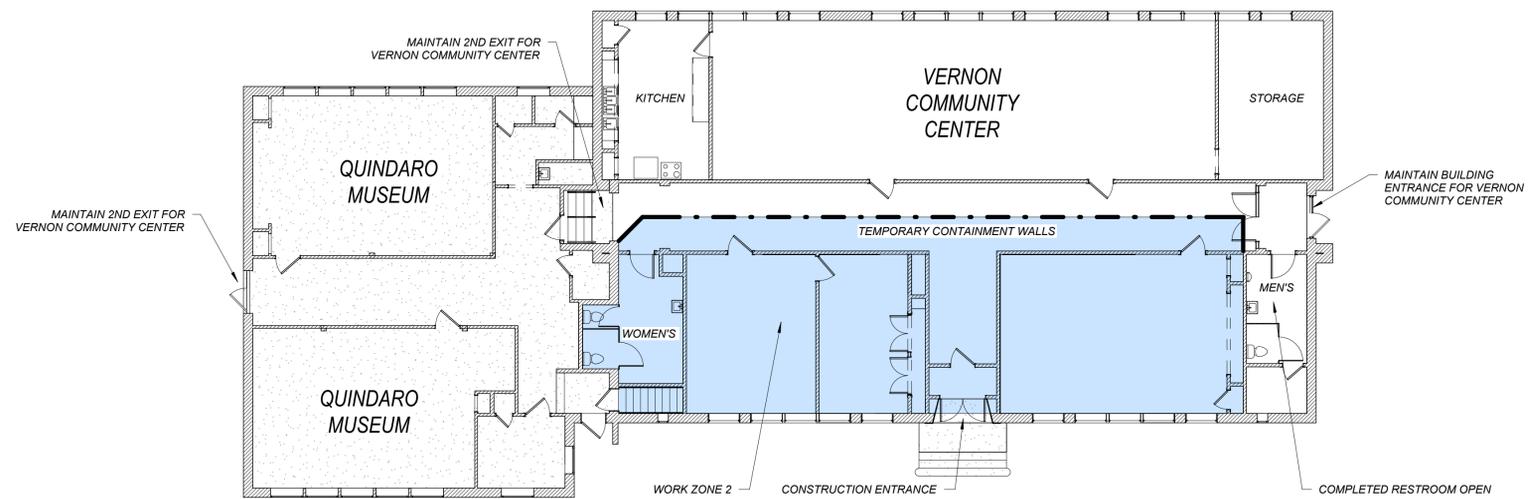
| FINISH SCHEDULE | | | | | | | |
|------------------|-------------|-----------------------------|----------------|---|-------------------------------|----------------|--|
| ROOM | ROOM NUMBER | WALL FINISH | FLOOR FINISH | BASE FINISH | CEILING FINISH | CEILING HEIGHT | |
| HALLWAY | 100 | PLASTER, PTD | WOOD | WOOD W/ SHOE, PTD | PLASTER, PTD W/ CROWN MOLDING | 9' - 3" | |
| VISITOR CENTER | 101 | PLASTER, PTD | WOOD | WOOD W/ SHOE, PTD | PLASTER, PTD W/ CROWN MOLDING | 11' - 0" | |
| WOMEN'S | 102 | PLASTER, PTD | EPOXY FLAKE | CONC. BASE & 6" RUBBER COVE | PLASTER, PTD | 11' - 0" | |
| COMMUNITY CENTER | 103 | NA | NA | NA | 2x4 ACT | 7' - 9" | |
| STORAGE | 103c | NA | 3/4" SUBFLOOR | NA | NA | 11' - 0" | |
| CONFERENCE | 104 | PLASTER, PTD | WOOD | WOOD W/ SHOE, PTD | GWB, PTD W/ CROWN MOLDING | 11' - 0" | |
| MEN'S BATHROOM | 105 | PLASTER, PTD & NEW GWB, PTD | EPOXY FLAKE | CONC. BASE TO REMAIN ON NORTH WALL, NEW 6" RUBBER COVE ON OTHER WALLS | PLASTER, PTD | 11' - 0" | |
| JANITOR | 106 | PLASTER, PTD & NEW GWB, PTD | EPOXY FLAKE | CONC. BASE TO REMAIN ON NORTH WALL, NEW 6" RUBBER COVE ON OTHER WALLS | PLASTER, PTD | 11' - 0" | |
| STAIRS & LIFT | 107 | CMU, PTD & NEW GWB, PTD | POLISHED CONC. | 6" RUBBER COVE | GWB, PTD | 10' - 0" | |
| FUTURE BATHROOM | 108 | CMU, PTD & NEW GWB, PTD | UNFIN. CONC. | NA | GWB, PTD | 10' - 0" | |



1 SITE CONSTRUCTION STAGING & FENCING PLAN
1/16" = 1'-0"



2 WORK ZONE 1A
3/32" = 1'-0"



3 WORK SEQUENCE 1B
3/32" = 1'-0"

**VERNON SCHOOL - INTERIOR REHABILITATION
PHASE 1**

3436 N 27TH STREET
KANSAS CITY, KS 66104

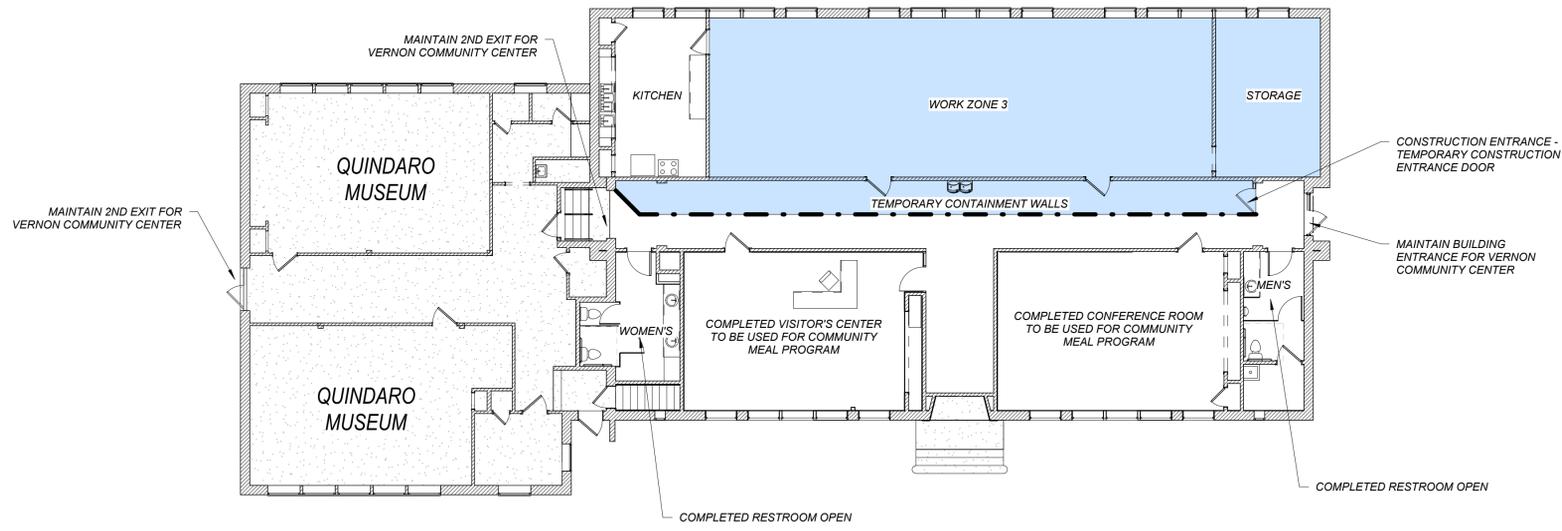


1100 Rhode Island
Lawrence, Kansas 66044
785 - 749 - 5806

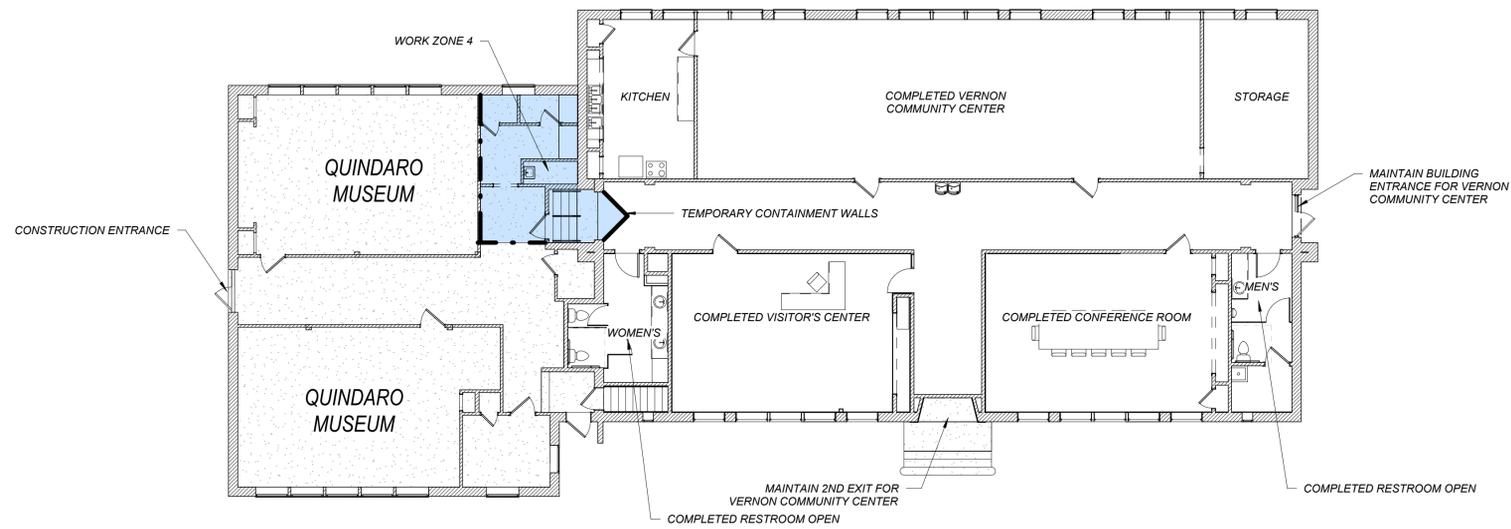
CONSTRUCTION STAGING & SEQUENCING

Date: 6/27/2025
Drawn by: MEB
Checked by: SCH
Revisions:

1C1.0



1 WORK ZONE 2
3/32" = 1'-0"



2 WORK ZONE 4
3/32" = 1'-0"

**VERNON SCHOOL - INTERIOR REHABILITATION
PHASE 1**

3436 N 27TH STREET
KANSAS CITY, KS 66104

Hernly
ASSOCIATES, P.C.
ARCHITECTS
PRESERVATION CONSULTANTS
GRANT ADMINISTRATORS

1100 Rhode Island
Lawrence, Kansas 66044
785 - 749 - 5806

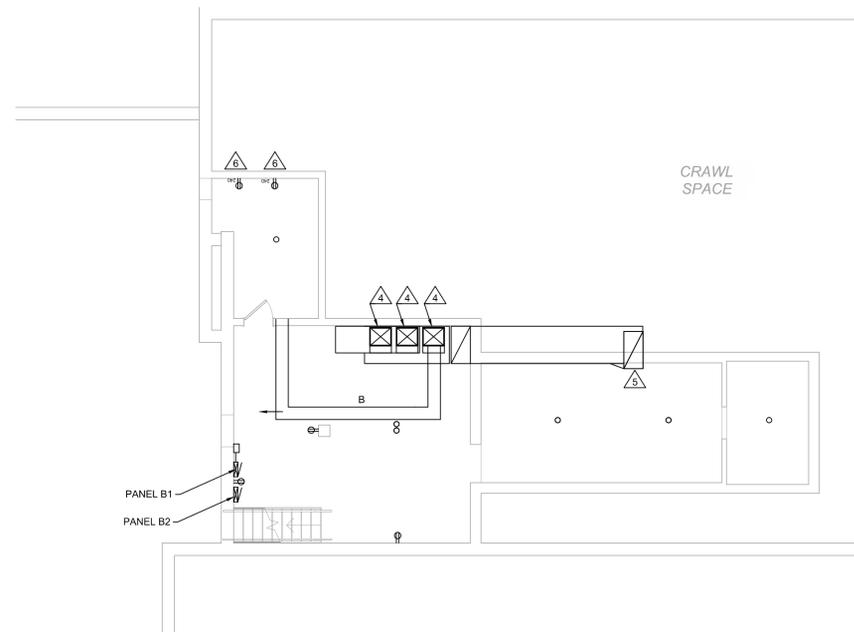
CONSTRUCTION
STAGING &
SEQUENCING

Date: 6/27/2025
Drawn by: Author
Checked by: SCH
Revisions:

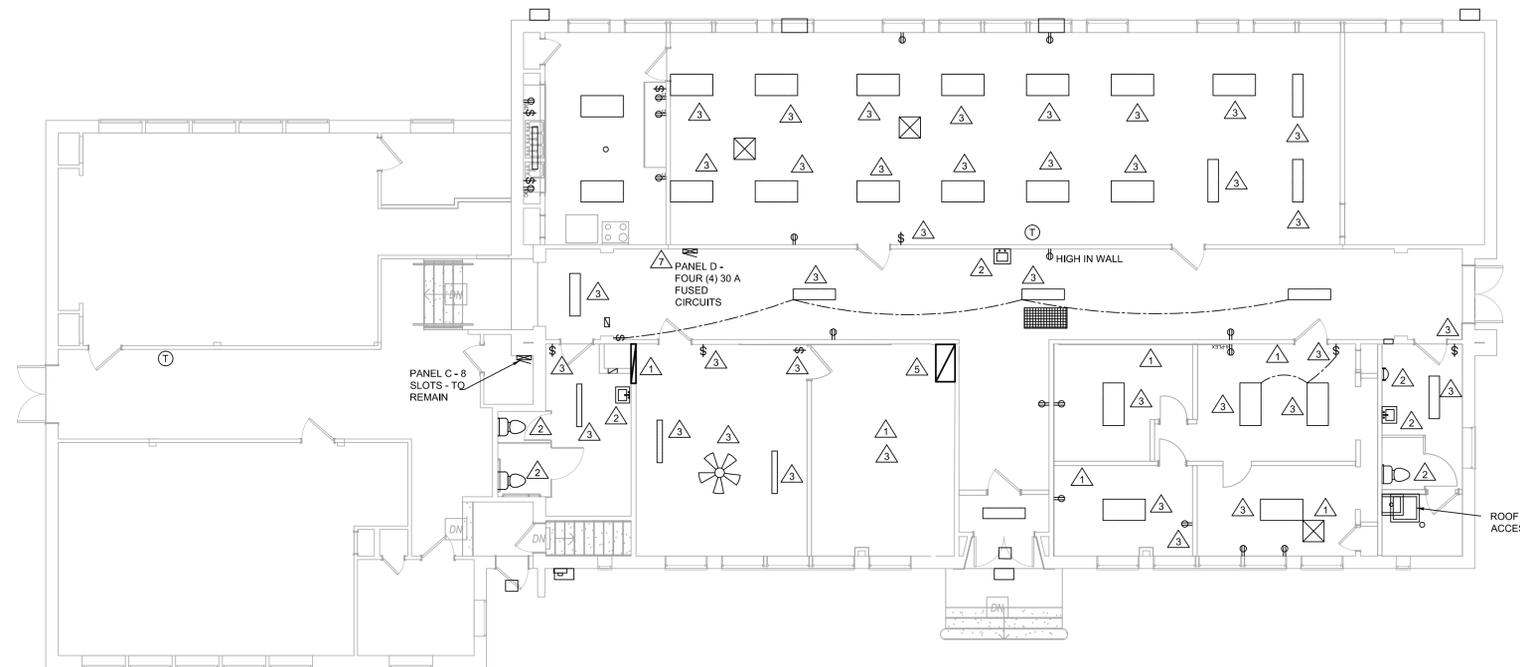
1C1.1

DEMOLITION NOTES: (THIS SHEET ONLY)

- △ REMOVE EXISTING DIFFUSERS AND ASSOCIATED DUCTWORK IN THIS AREA.
- △ REMOVE PLUMBING FIXTURES AND PROPERLY DISPOSE OF FIXTURES. SEE ARCHITECTURAL PLANS FOR WALL REMOVAL. CAP COLD AND HOT WATER LINES AND THE SANITARY SEWER AND VENT LINES FOR USE IN NEW CONFIGURATION.
- △ REMOVE ELECTRICAL RECEPTACLES, LIGHT SWITCHES, AND LIGHT FIXTURES AS NOTED AND PROPERLY DISPOSE OF. BRANCH WIRING SHALL BE REMOVED BACK TO THE NEAREST JUNCTION BOX OR THE ELECTRICAL DISTRIBUTION PANELS.
- △ DEMO EXISTING FURNACE'S AND PATCH RETURN DUCTWORK. SEE M2.0-1 & 2 FOR NEW CONFIGURATION.
- △ DEMO EXISTING RETURN DUCTWORK AND ASSOCIATED RETURN AIR GRILL. SEE M2.0-1 & 2 FOR NEW CONFIGURATION.
- △ REMOVE RECEPTACLES ASSOCIATED WITH KILNS. REMOVE ASSOCIATED WIRING.
- △ REMOVE PANEL. BECOMES A SPLICE BOX FOR CIRCUITS.



1 BASEMENT DEMO PLAN
 SCALE: 1/8" = 1'-0"



2 1ST FLOOR DEMO PLAN
 SCALE: 1/8" = 1'-0"

VERNON SCHOOL PHASE 1
 3436 N. 27TH STREET

| No. | Description | Date |
|-----|--------------|------------|
| 1 | PROGRESS SET | 05-30-2025 |
| 2 | REVIEW SET | 06-06-2025 |
| | | |
| | | |

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| Mechanical Series | M1.0 Schedules, General Notes & Mechanical Details M2.0 AHU Details, Mechanical Plan, Roof Mechanical |
| Plumbing Series | P1.0 Schedules & Plumbing Plan. |
| Electrical Series | E1.0 Panel Layout, Schedules and Elec. Riser E2.0 Lighting & Power Plan |

| Demo Plan | |
|-------------|------------|
| Date | 06-06-2025 |
| Drawn by | --- |
| Checked by | SCH |
| D1.0 | |
| Scale | AS NOTED |

| HEATING AND COOLING LOAD SUMMARY | | | | | |
|---|---------|--------------------|---------------|----------------------|-------|
| DESIGN CONDITIONS | | | | | |
| LOCATION: VERNON - COMMUNITY CENTER & KITCHEN | | WET BULB: 78°F | | DAILY RANGE: 20°F | |
| TOTAL CONDITIONED AREA: 1974 SF | | DESIGN MONTH: JULY | | DESIGN HOUR: 3:00 PM | |
| LAWRENCE, KS | | | | | |
| OUTDOOR DRY BULB | | INDOOR DRY BULB | | | |
| SUMMER | 95 | 75 | | | |
| WINTER | 10 | 70 | | | |
| HEAT LOSS/GAIN SUMMARY | | | | | |
| SF | U-VALUE | LOSS | SENSIBLE GAIN | LATENT GAIN | |
| WALLS | 1530 | 0.351 | 36270 | 14943 | |
| WINDOWS | 360 | 0.32 | 7788 | 25154 | |
| DOORS | 0 | 0.00 | 0 | 0 | |
| CEILINGS | 1974 | 0.065 | 8734 | 5342 | |
| FLOORS | 1974 | 0.035 | 3920 | 1195 | |
| INTERNAL LOADS | | | | 4437 | 20799 |
| INFILTRATION | | | | 0 | |
| VENTILATION | | | | 9832 | |
| SUBTOTAL | | 68976 | 60903 | 20799 | |
| TOTAL HEATING | | 88976 | | | Btuh |
| TOTAL COOLING | | 81702 | | | Btuh |

ADTEK SOFTWARE ACOA CERTIFIED MANUAL J RESIDENTIAL HEATING AND COOLING LOAD

| HEATING AND COOLING LOAD SUMMARY | | | | | |
|---|---------|--------------------|---------------|----------------------|-------|
| DESIGN CONDITIONS | | | | | |
| LOCATION: VERNON CONFERENCE ROOM & VISITORS CENTER & HALL | | WET BULB: 78°F | | DAILY RANGE: 20°F | |
| TOTAL CONDITIONED AREA: 2728 SF | | DESIGN MONTH: JULY | | DESIGN HOUR: 3:00 PM | |
| LAWRENCE, KS | | | | | |
| OUTDOOR DRY BULB | | INDOOR DRY BULB | | | |
| SUMMER | 95 | 75 | | | |
| WINTER | 10 | 70 | | | |
| HEAT LOSS/GAIN SUMMARY | | | | | |
| SF | U-VALUE | LOSS | SENSIBLE GAIN | LATENT GAIN | |
| WALLS | 1504 | 0.351 | 35654 | 14689 | |
| WINDOWS | 306 | 0.32 | 6619 | 16897 | |
| DOORS | 80 | 0.33 | 1786 | 868 | |
| CEILINGS | 2728 | 0.065 | 12070 | 7383 | |
| FLOORS | 2728 | 0.035 | 5417 | 1651 | |
| INTERNAL LOADS | | | | 6194 | 20472 |
| INFILTRATION | | | | 0 | |
| VENTILATION | | | | 8740 | |
| SUBTOTAL | | 90226 | 56422 | 20472 | |
| TOTAL HEATING | | 90226 | | | Btuh |
| TOTAL COOLING | | 76894 | | | Btuh |

ADTEK SOFTWARE ACOA CERTIFIED MANUAL J RESIDENTIAL HEATING AND COOLING LOAD

| HEATING AND COOLING LOAD SUMMARY | | | | | |
|----------------------------------|---------|--------------------|---------------|----------------------|-------|
| DESIGN CONDITIONS | | | | | |
| LOCATION: VERNON SCHOOL - MUSEUM | | WET BULB: 78°F | | DAILY RANGE: 20°F | |
| TOTAL CONDITIONED AREA: 2204 SF | | DESIGN MONTH: JULY | | DESIGN HOUR: 3:00 PM | |
| LAWRENCE, KS | | | | | |
| OUTDOOR DRY BULB | | INDOOR DRY BULB | | | |
| SUMMER | 95 | 75 | | | |
| WINTER | 10 | 70 | | | |
| HEAT LOSS/GAIN SUMMARY | | | | | |
| SF | U-VALUE | LOSS | SENSIBLE GAIN | LATENT GAIN | |
| WALLS | 1850 | 0.351 | 43868 | 18073 | |
| WINDOWS | 336 | 0.32 | 7258 | 15710 | |
| DOORS | 64 | 0.33 | 1429 | 694 | |
| CEILINGS | 2204 | 0.065 | 9751 | 5965 | |
| FLOORS | 2204 | 0.035 | 4377 | 1334 | |
| INTERNAL LOADS | | | | 8232 | 24283 |
| INFILTRATION | | | | 0 | |
| VENTILATION | | | | 9462 | |
| SUBTOTAL | | 97800 | 59490 | 24283 | |
| TOTAL HEATING | | 97800 | | | Btuh |
| TOTAL COOLING | | 83773 | | | Btuh |

ADTEK SOFTWARE ACOA CERTIFIED MANUAL J RESIDENTIAL HEATING AND COOLING LOAD

| REQUIRED MINIMUM OUTDOOR VENTILATION | | | | | | |
|---|--------------------------|---------|--------------------|---------------------|------------------|----------|
| INTERNATIONAL MECHANICAL CODE TABLE 403.3 | | | | | | |
| AREA DESCRIPTION | OCCUPANCY CLASSIFICATION | PERSONS | OUTDOOR CFM/PERSON | AREA SQUARE FOOTAGE | OUTDOOR CFM/S.F. | CFM USED |
| VERNON COMMUNITY CENTER | CONFERENCE ROOMS | 15 | 5 | 1,250 | 0.06 | 150 |
| CONFERENCE ROOM | CONFERENCE ROOMS | 15 | 5 | 588 | 0.06 | 110 |
| VISITOR CENTER | MAIN ENTRY LOBBIES | 6 | 5 | 590 | 0.06 | 65 |
| HALLWAY | CORRIDORS | | | 1,420 | 0.06 | 0 |
| NORTH UNDERGROUND RAILROAD MUSEUM | MUSEUMS/GALLERIES | 15 | 7.5 | 572 | 0.06 | 147 |
| SOUTH UNDERGROUND RAILROAD MUSEUM | MUSEUMS/GALLERIES | 15 | 7.5 | 594 | 0.06 | 148 |
| OFFICE | OFFICE SPACES | 1 | 5 | 95 | 0.06 | 11 |
| TOTAL | | | | | | 631 |

| HVAC EXHAUST FAN SCHEDULE | | | | | | | | | |
|---------------------------|----------------------------|-----|------|------|------------|-------|-------|---------------|-------------------------|
| MARK | MANUFACTURER AND MODEL NO. | CFM | ESP | RPM | ELECTRICAL | | | OPER WT (LBS) | REMARKS |
| | | | | | BLOWER HP | VOLTS | PHASE | | |
| EF-1 | PANASONIC FV-05-11VK2 | 82 | 0.25 | 1131 | 1/10 | 120 | 1 | 25 | VENT THROUGH ROOF |
| EF-2 | COOK INLINE MODEL GC-642 | 400 | 0.25 | 1500 | 1/5 | 120 | 1 | 26 | VENT RADON THROUGH ROOF |

| HVAC UNIT COMPRESSOR-CONDENSER SCHEDULE | | | | | | | | | | | |
|---|---|-------------------------------|----------------------------------|-----------------------|------------|-------|------|-----|---------------|---------|--|
| MARK | MANUFACTURER AND MODEL NO. | TOTAL COOLING CAPACITY (BTUH) | SENSIBLE COOLING CAPACITY (BTUH) | MIN. SPEED (TURNS/HR) | ELECTRICAL | | | | OPER WT (LBS) | REMARKS | |
| | | | | | VOLTS | PHASE | MCA | MOP | | | |
| AC-1 | GOODMAN COIL: CAPTA6030D3 CONDENSER: GLXS3BN6010 | 55,000 | 37,380 | 13.7 | 230 | 1 | 31.1 | 50 | 70 | 244 | |
| AC-2 | GOODMAN COIL: CAPTA6030D3 CONDENSER: GLXS3BN6010 | 55,000 | 37,380 | 13.7 | 230 | 1 | 31.1 | 50 | 70 | 244 | |
| AC-3 | GOODMAN COIL: CAPTA6030D3 CONDENSER: GLXS3BN6010 | 55,000 | 37,380 | 13.7 | 230 | 1 | 31.1 | 50 | 70 | 244 | |

| HVAC UNIT NATURAL GAS FURNACE SCHEDULE | | | | | | | | | | | | | |
|--|----------------------------|-----------------|-----|-----|------|------------------------|--------|------------|-------|------|-----|---------------|---------|
| MARK | MANUFACTURER AND MODEL NO. | AIR FLOWS (CFM) | | ESP | RPM | HEATING CAPACITY (MBH) | | ELECTRICAL | | | | OPER WT (LBS) | REMARKS |
| | | TOTAL | OA | | | INPUT | OUTPUT | VOLTS | PHASE | MCA | MOP | | |
| AHU-1 | GOODMAN GMV/C961205DN | 1800 | 150 | 1/2 | 1075 | 120 | 115.2 | 1 | 115 | 14.4 | 20 | 156 | |
| AHU-2 | GOODMAN GMV/C961205DN | 1800 | 175 | 1/2 | 1075 | 120 | 115.2 | 1 | 115 | 14.4 | 20 | 156 | |
| AHU-3 | GOODMAN GMV/C961205DN | 1800 | 300 | 1/2 | 1075 | 120 | 115.2 | 1 | 115 | 14.4 | 20 | 156 | |

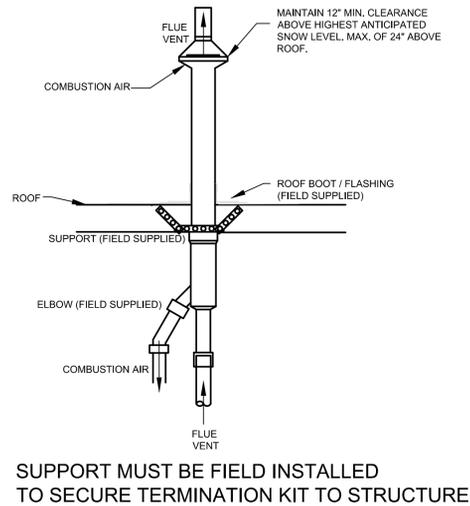
- GENERAL NOTES:**
- ALL WORK SHALL CONFORM TO THE LATEST ADOPTED VERSION OF THE INTERNATIONAL MECHANICAL CODE (IMC).
 - ALL DUCT CONSTRUCTION, GAUGES, METHODS OF HANGING AND SUPPORTING SHALL CONFORM TO THE LATEST SMACNA STANDARDS ANS CHAPTER 6 OF THE IMC.
 - ALL EXHAUST, RETURN, AND SUPPLY DUCTS SHALL BE CONSTRUCTED OF GALVANIZED SHEET METAL TO SMACNA 2" PRESSURE CLASS. ALL JOINTS AND SEAMS SHALL BE SEALED AIRTIGHT.
 - ALL ROUND EXHAUST, RETURN, AND SUPPLY DUCTS SHALL BE STANDARD GALVANIZED "SNAP - LOCK" PIPE WITH ALL CHANGES IN DIRECTION MADE VIA ADJUSTABLE ELBOWS. ALL JOINTS AND SEAMS SHALL BE SEALED AIRTIGHT.
 - PROVIDE LOW VELOCITY SINGLE WALL TURNING VANES CONSTRUCTED IN ACCORDANCE WITH SMACNA STANDARDS IN THE ELBOWS OF ALL RECTANGULAR DUCTWORK.
 - PROVIDE MANUAL DAMPERS WITH LOCKING QUADRANTS IN ALL LOCATIONS INDICATED OR REQUIRED TO BALANCE THE AIR SYSTEM.
 - COORDINATE THE LOCATION OF DUCTWORK WITH THE PLACEMENT OF THE LIGHT FIXTURES AND THE STRUCTURAL MEMBERS.
 - LINE ALL DUCTS WITH 1/2" INSULATION. (EXCLUDE EXHAUST AND DUCTS UNDER 10" IN DIAMETER OR 10" x 10" IN SIZE.) ALL DUCT DIMENSIONS GIVEN ON DRAWINGS ARE CLEAR INSIDE DIMENSIONS (W x D). PROVIDE 1" LINER FOR RETURN AIR DUCT BOOTS AND TRANSFER DUCTS.
 - THE CONTRACTOR SHALL VERIFY ALL STRUCTURAL CONDITIONS FOR THE CEILING SPACE AND EXACT DUCT ROUTE PRIOR TO FABRICATION. VERIFY IN THE FIELD EXACT ROUTING OF DUCTWORK TO ALLOW PROPER LOCATION OF LIGHTS AS SHOWN.
 - ANY FRESH AIR INTAKE SHALL BE SEPARATED FROM THE BUILDING EXHAUST, FLUES, OR PLUMBING VENTS AS REQUIRED BY LOCAL CODE.
 - INSTALLATION OF APPROVED HVAC UNITS MAY REQUIRE MODIFICATIONS TO DUCTWORK LAYOUT. VERIFY ALL REQUIRED CLEARANCES FOR OTHER MANUFACTURERS.
 - ANY FRAMING REQUIRED FOR DIFFUSER INSTALLATION IN HARD CEILINGS SHALL BE BY THE GENERAL CONTRACTOR.
 - ANY EQUIPMENT THAT IS SUBSTITUTED SHALL FIT IN THE SPACE PROVIDED, WITH ADEQUATE ROOM FOR SERVICING.
 - HVAC UNITS SHALL BE MOUNTED LEVEL.
 - FINAL HVAC SYSTEMS AND BALANCING SHALL BE PERFORMED BY THE OWNER'S INDEPENDENT AGENT. THE COMMISSIONING DOCUMENTS SHALL BE PROVIDED TO THE BUILDING OWNER'S AUTHORIZED AGENT WITHIN 90 DAYS OF THE DATE OF RECEIPT OF THE CERTIFICATE OF OCCUPANCY IN COMPLIANCE WITH 2018 IECC C408.2.5.
 - SUPPLY SPECIFIED EQUIPMENT OR APPROVED EQUAL.
 - FLUE VENTS SHALL TERMINATE NO LESS THAN 10' FROM THE NEAREST FRESH AIR INTAKE. FIELD VERIFY AND OFFSET AS REQUIRED.
 - CONTRACTOR SHALL REVIEW ALL EQUIPMENT NAME PLATES AND INSTALLATION REQUIREMENTS PRIOR TO DOING WORK. EQUIPMENT IS TO BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS.
 - INSULATE ALL DUCTWORK IN NON-CONDITIONED AREAS SUCH AS ATTICS AND CRAWL SPACES TO THE CURRENT ADOPTED VERSION OF IECC STANDARDS.
 - PROVIDE SUPPLY FAN DISABLING RELAY TO SHUT OFF COMPRESSOR UPON DETECTION OF CONDENSATE IN THE SECONDARY CONDENSATE DRAIN FOR ALL SPLIT-SYSTEMS.
 - VENTS AND EXHAUST SYSTEMS SHALL BE AT LEAST 3 FEET AWAY FROM ANY OPERABLE WINDOW, DOOR OR OTHER OPENING IN THE BUILDING.

HCE
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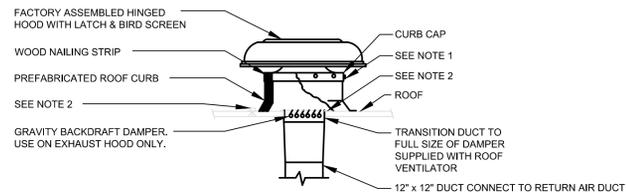
PHASE 1
VERNON SCHOOL
3436 N. 27TH STREET

1 MECHANICAL SCHEDULES AND CALCULATIONS

SCALE: NONE

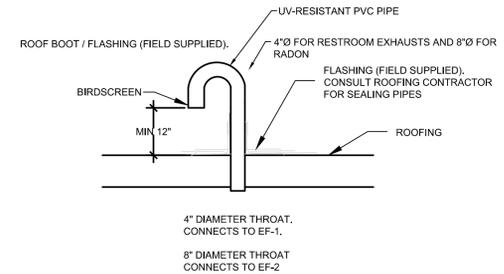


SUPPORT MUST BE FIELD INSTALLED TO SECURE TERMINATION KIT TO STRUCTURE



COOK MODEL 16PR OUTSIDE AIR INTAKE

- NOTES:
- SECURE HOOD TO WOOD NAILING STRIP WITH 3/8" (10mm) CADMIUM PLATED LAG BOLTS NOT OVER 12" (300mm) ON CENTER.
 - SECURE ROOF CURB, DUCTWORK, AND DAMPER TO ROOF WITH RUST RESISTANT BOLTS (METAL DECK & BAR JOIST ROOF)
 - SIZE OF DUCT THROUGH ROOF SHALL NOT BE LARGER THAN CURB SUPPLIED WITH HOOD



4" DIAMETER THROAT, CONNECTS TO EF-1.

8" DIAMETER THROAT CONNECTS TO EF-2

2 FLUE AND COMBUSTION AIR DETAIL

SCALE: NONE

3 FRESH AIR INTAKE

SCALE: NONE

4 DUCT THROUGH ROOF

SCALE: NONE

| No. | Description | Date |
|-----|--------------|------------|
| 1 | PROGRESS SET | 05-30-2025 |
| 2 | REVIEW SET | 06-06-2025 |

| Sheet Index | |
|--------------------------|--|
| Demolition Series | D1.0 MEP Demolition Plans |
| Mechanical Series | M1.0 Schedules, General Notes & Mechanical Details M2.0 AHU Details, Mechanical Plan, Roof Mechanical |
| Plumbing Series | P1.0 Schedules & Plumbing Plan. |
| Electrical Series | E1.0 Panel Layout, Schedules and Elec. Riser E2.0 Lighting & Power Plan |

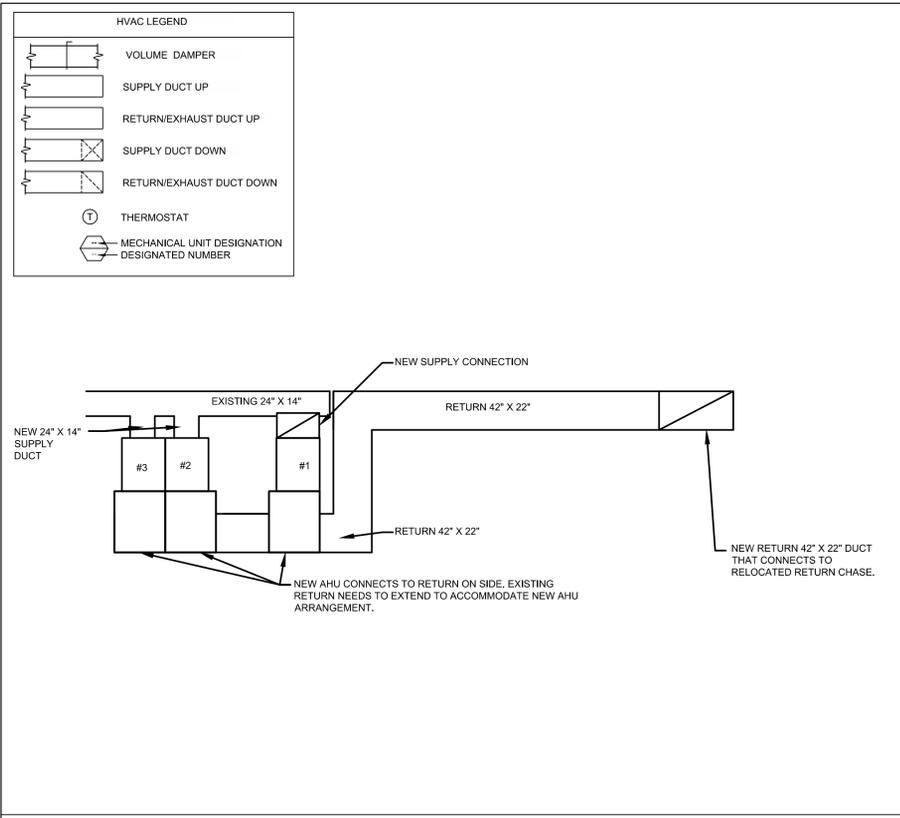
Schedules, General Notes & Details

| | |
|------------|------------|
| Date | 06-06-2025 |
| Drawn by | --- |
| Checked by | SCH |

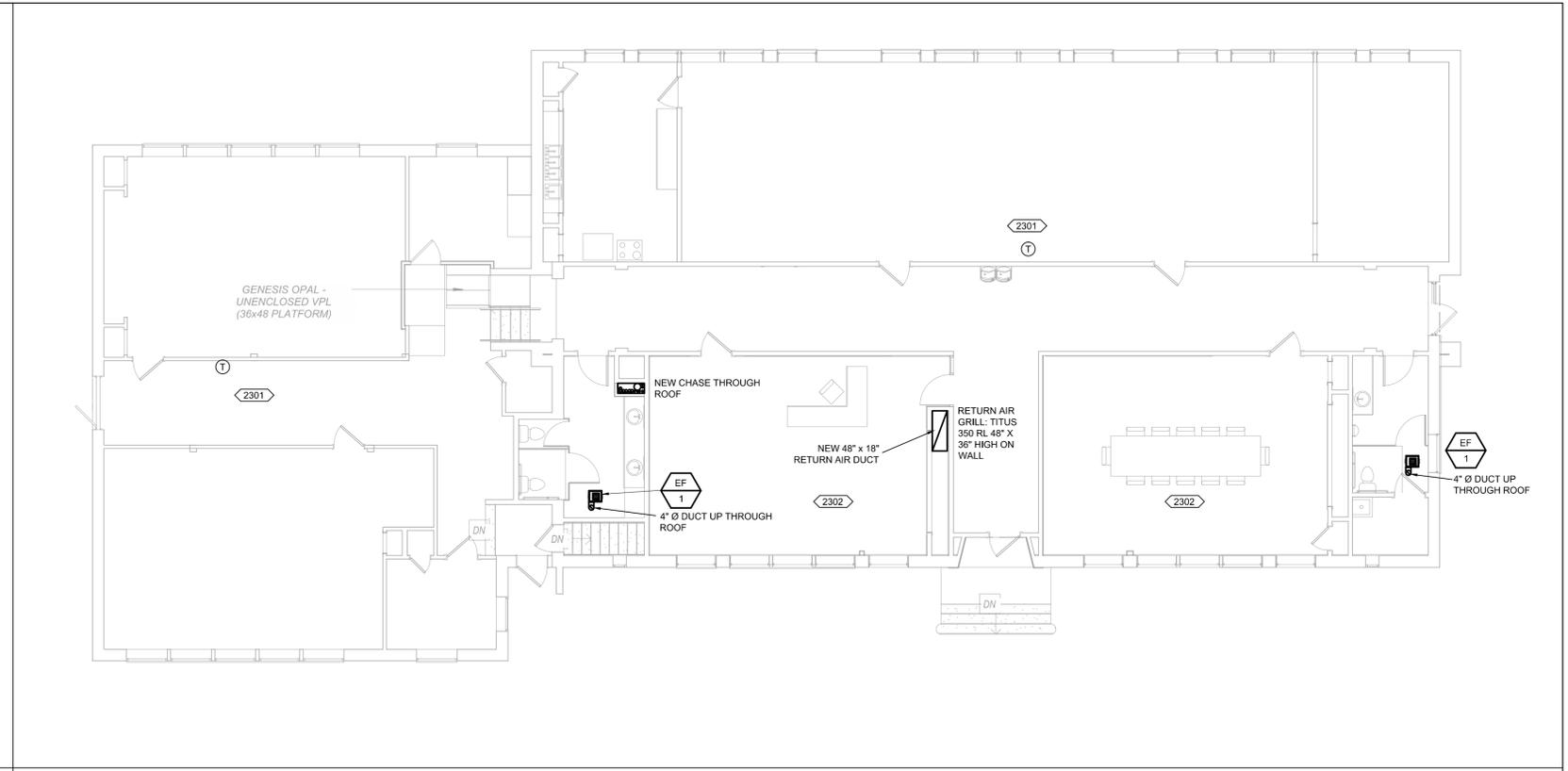
M1.0

Scale AS NOTED

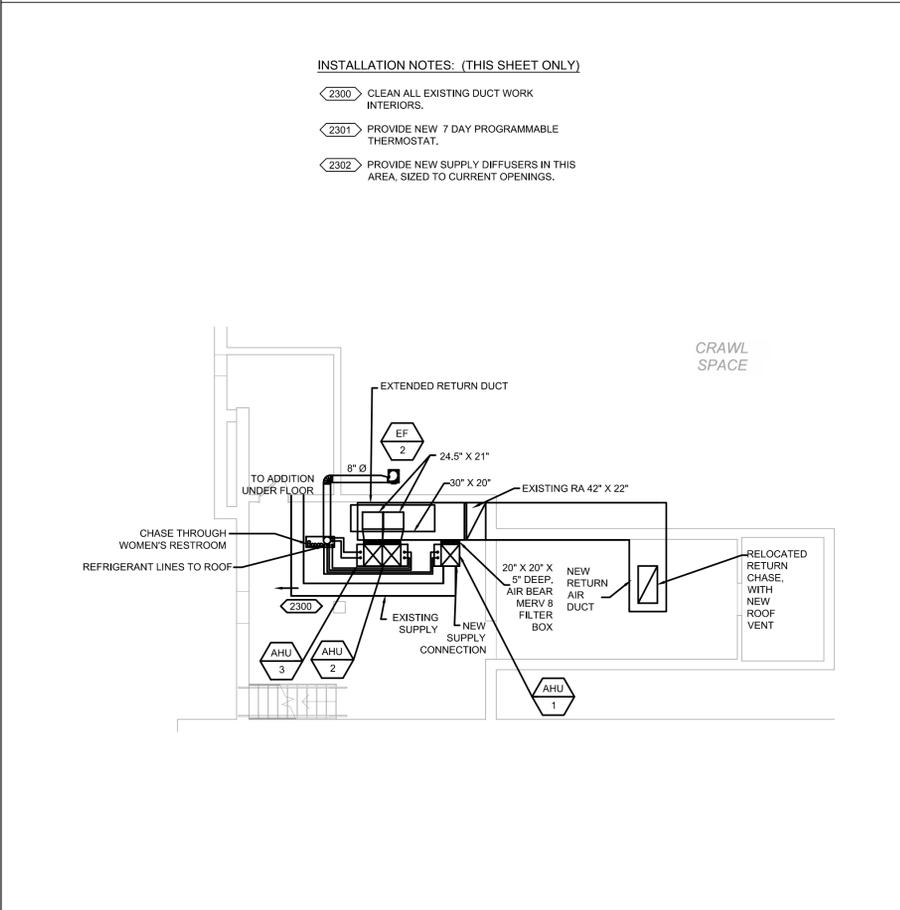
VERNON SCHOOL
PHASE 1
3436 N. 27TH STREET



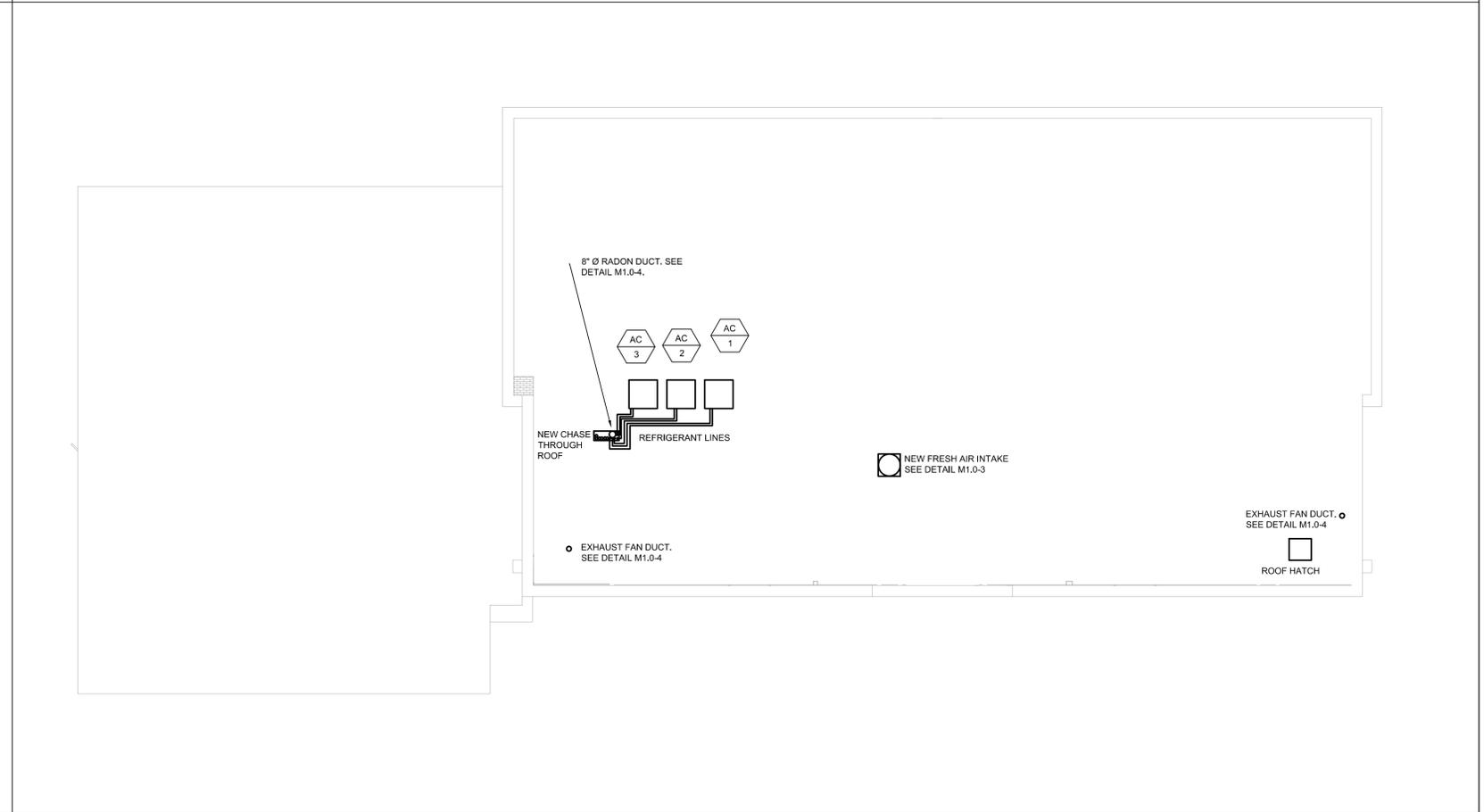
1 AHU ELEVATION DETAIL
 SCALE: 1/4" = 1'-0"



3 1ST FLOOR MECHANICAL PLAN
 SCALE: 1/8" = 1'-0"



2 BASEMENT MECHANICAL PLAN
 SCALE: 1/8" = 1'-0"



4 ROOF MECHANICAL PLAN
 SCALE: 1/8" = 1'-0"

| No. | Description | Date |
|-----|--------------|------------|
| 1 | PROGRESS SET | 05-30-2025 |
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Sheet Index

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 D1.0 MEP Demolition Plans

Mechanical Series
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 M2.0 AHU Details, Mechanical Plan, Roof Mechanical

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 P1.0 Schedules & Plumbing Plan.

Electrical Series
 E1.0 Panel Layout, Schedules and Elec. Riser
 E2.0 Lighting & Power Plan

AHU Elevation Detail
Mechanical Plan

Date: 06-06-2025
 Drawn by: ---
 Checked by: SCH

M2.0
 Scale: AS NOTED

INSTALLATION NOTES: (THIS SHEET ONLY)

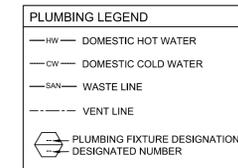
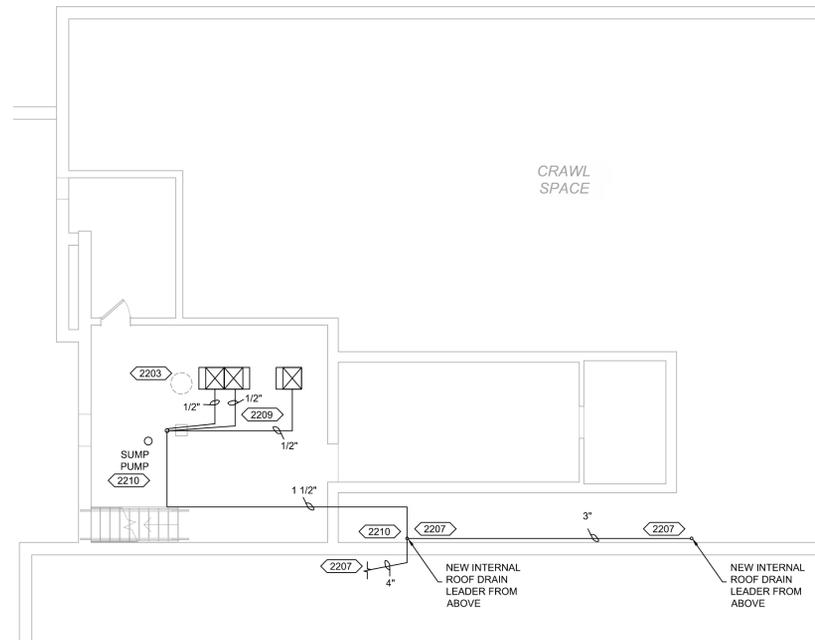
- 2200 NEW PLUMBING FIXTURES SHALL BE CONNECTED INTO 1/2" CW & 1/2" HW LINES FROM EXISTING PLUMBING FIXTURES. COORDINATE BEST LOCATION/ROUTING FOR CONNECTION IN THE FIELD.
- 2201 NEW PLUMBING FIXTURES SHALL BE CONNECTED TO EXISTING SANITARY WASTE AND VENT. SANITARY WASTE PIPE FOR NEW LAVATORY SHALL BE 2". SANITARY WASTE PIPE FOR THE WATER CLOSET AND MOP SINK SHALL BE 3" AND THE URINAL SHALL BE 2".
- 2203 EXISTING WATER HEATER SHALL REMAIN.
- 2204 FIELD VERIFY AND REMOVE GALVANIZED PIPING AND REPLACE WITH PEX-A.
- 2205 EXISTING ROOF DRAIN TO REMAIN AND SHALL BE CONNECTED TO NEW INTERNAL DRAIN LEADER.
- 2206 REMOVE EXISTING EXTERIOR DRAIN LEADER AND PATCH EXTERIOR BRICK. ROUTE NEW 3" INTERNAL DRAIN LEADER PIPE DOWN TO BASEMENT/CRAWLSPACE.
- 2207 FIELD VERIFY INTERNAL DRAIN LEADER PIPING AND CONNECT THE ROOF DRAINS. ONCE COMBINED CONNECT USING 4" DRAIN PIPE AND ROUTE TO EXISTING STORM DRAIN TO THE SOUTHEAST CORNER OF THE PROPERTY.
- 2208 INSTALL A U-SHAPED PVC TYPE PIPE COVER OVER THE ROOF DRAIN INTERNAL LEADER. THE COVER SHALL HAVE A MINIMUM DEPTH OF 4 INCHES AND A MINIMUM WIDTH OF 4 INCHES WITH A SURFACE THAT CAN BE PAINTED.
- 2209 ROUTE PRIMARY DX COIL CONDENSATE DRAIN LINES TO THE SUMP PUMP PIT IN THE BASEMENT. SECONDARY DRAIN SHALL BE CONNECTED TO FLOAT SWITCH THAT WILL DISABLE THE COMPRESSOR TO PREVENT FURTHER CONDENSATE DEVELOPMENT.
- 2210 SUMP PUMP DRAIN LINE SHALL BE REROUTED TO THE ROOF DRAIN LEADER. REVIEW AND REPAIR SUMP PUMP AS NEEDED.

GENERAL NOTES:

1. ALL NEW WORK SHALL CONFORM TO THE LATEST ADOPTED VERSION OF THE INTERNATIONAL PLUMBING CODE.
2. TYPE L HARD COPPER WITH 95/90 SOLDERED FITTINGS OR PRESS-CONNECT FITTINGS SHALL BE USED FOR ALL DOMESTIC WATER PIPING. PEX DOMESTIC WATER PIPING MAY BE USED WHERE ALLOWED BY CODE AND WHERE CONTRACTOR PROVIDES EVIDENCE OF TRAINING ON PEX PIPING INSTALLATION. PUSH-FIT FITTINGS SHALL CONFORM TO ASSE 1061 AND BE INSTALLED IN ACCORDANCE WITH MANUFACTURER INSTRUCTIONS.
3. STANDARD WEIGHT CENTRIFUGALLY CAST, CAST IRON DWV PIPE WITH "NO-HUB" FITTINGS AND JOINTS SHALL BE USED FOR SOIL, WASTE, AND VENT PIPING. STANDARD WEIGHT CENTRIFUGALLY CAST, CAST IRON DWV PIPE WITH "TY-SEAL" FITTINGS AND JOINTS SHALL BE USED FOR SOIL, WASTE, AND VENT PIPING BELOW GRADE. PVC DWV MAY BE USED WHERE ALLOWED BY CODE.
4. PIPE HANGERS SHALL BE DESIGNED FOR FERROUS, PLASTIC, AND COPPER PIPE WITH HANGER RODS IN DIAMETERS AS REQUIRED BY HANGERS. HANGER SPACING SHALL BE IN ACCORDANCE WITH THE INTERNATIONAL PLUMBING CODE.
5. DOMESTIC HOT AND COLD WATER LINES SHALL BE INSULATED WITH 1/2" THICK FIBERGLASS PREFORMED INSULATION WITH SELF-SEALING JOINTS. THE COLD WATER PIPING SYSTEM SHALL BE PROVIDED WITH A VAPOR BARRIER. PEX PIPING MAY BE INSTALLED WITHOUT INSULATION.
6. EXPOSED HANDICAPPED LAVATORY P-TRAPS AND SUPPLY FITTINGS SHALL BE INSULATED WITH PREFORMED FLEXIBLE CELLULAR INSULATION.
7. ALL PIPING SYSTEMS SHALL BE TESTED BEFORE COVERING AND CONCEALING IN THE PRESENCE OF THE OWNER OR THE OWNER'S REPRESENTATIVE. ALL LEAKS SHALL BE REPAIRED IN A SATISFACTORY MANNER.
8. TEST DOMESTIC WATER PIPING AT 100 PSI.
9. SOIL AND WASTE PIPE SHALL SLOPE 2% MINIMUM, UNLESS OTHERWISE NOTED OR REQUIRED BY CODE.
10. CONTRACTOR SHALL VERIFY THE LOCATION OF THE SANITARY SEWER AND SHALL REVISE THE SEWER SYSTEM AS REQUIRED.
11. ALL CLEANOUTS SHALL BE INSTALLED WHERE READILY ACCESSIBLE. THE CONTRACTOR SHALL COORDINATE ALL CLEANOUT LOCATIONS WITH EQUIPMENT, CABINETS, ETC. AND THE OWNER'S REPRESENTATIVE PRIOR TO ANY INSTALLATION.
12. INSTALL SHUT-OFF VALVES ON ALL HOT & COLD WATER LINES TO FIXTURE OR APPLIANCE. ALL EXPOSED WATER AND WASTE LINES TO BE CHROMED PLATED.
13. ALL VALVES, UNIONS, ETC. TO BE THE SAME SIZE AS THE PIPE UNLESS OTHERWISE INDICATED ON DRAWINGS.
14. PROVIDE WATER HAMMER ARRESTOR FOR WATER LINES AS REQUIRED BY CODE. THIS SHALL INCLUDE ALL FLUSH VALVE PLUMBING EQUIPMENT.
15. CONTRACTOR SHALL COORDINATE INSTALLATION OF PLUMBING WORK WITH ALL OTHER TRADES SO AS TO AVOID UNNECESSARY DELAY OF INTERFERENCES. CONTRACTOR TO REVIEW ARCHITECTURAL AND EQUIPMENT SHEETS.
16. SCHEDULE 40 STEEL PIPE WITH EITHER WELDED OR MALLEABLE SCREWED FITTINGS SHALL BE USED FOR ABOVE GRADE GAS PIPING. NO FLEXIBLE GAS PIPING WILL BE ALLOWED.

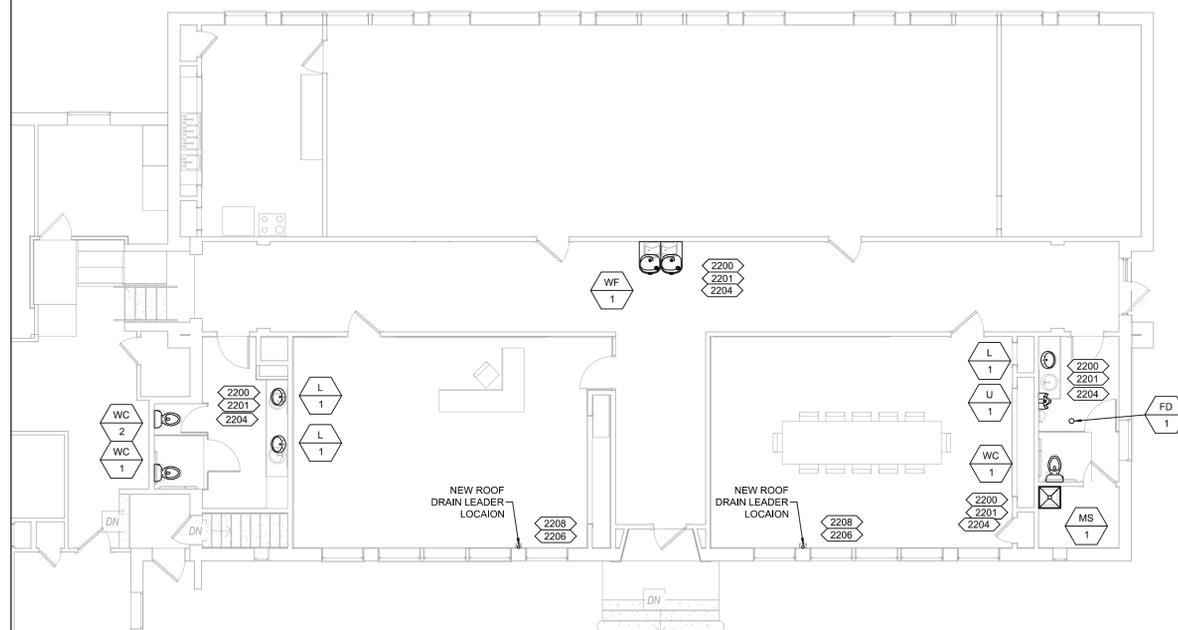
| PLUMBING FIXTURE SCHEDULE | | | | | | | | |
|---------------------------|----------------|---------------|------|------------|-----------|----------|-----------|---|
| ITEM | FIXTURE | SOIL OR WASTE | VENT | COLD WATER | HOT WATER | WASTE FU | SUPPLY FU | DESCRIPTION |
| WC 1 | WATER CLOSET | 3" | 2" | 1/2" | - | 4 | 5 | (HANDICAPPED); TOTO MS786124CEFG. 10 "DRAKE" TWO-PIECE FREE STANDING VITREOUS CHINA WITH ELONGATED BOWL, 17 5/8" HIGH BOWL, 1.28GPF, CHROME LEVER FLUSH, FLOOR MOUNTED. INSTALL WITH SS124 SOFT-CLOSE SEAT. EPA WATERSENSE. INSTALL PER ADA REQUIREMENTS W/ LEAVER ON WIDE SIDE OF ENCLOSURE. |
| WC 1 | WATER CLOSET | 3" | 2" | 1/2" | - | 4 | 5 | TOTO MS776124CSG (#01) "DRAKE" TWO-PIECE FREE STANDING VITREOUS CHINA WITH ELONGATED BOWL, 16" HIGH BOWL, 1.6GPF, CHROME PLATED LEVER FLUSH, FLOOR MOUNTED. INSTALL WITH SS124 SOFT-CLOSE SEAT. |
| U 1 | URINAL | 2" | 2" | 3/4" | - | 2 | 5 | (HANDICAPPED); KOHLER K-5016-ET-0 "DEXTER" VITREOUS CHINA SIPHON JET URINAL W/ 3/4" TOP SPUD. SLOAN #186-1 ONE GALLON FLUSH VALVE - ZURN Z-1222 FLOOR SUPPORTED CARRIER. MOUNT RIM AT 17" A.F.F. AND FLUSH VALE HANDLE NO MORE THAN 44" A.F.F. INSTALL TO MEET ADA REQUIREMENTS. |
| L 1 | LAVATORY | 2" | 2" | 1/2" | 1/2" | 1 | 2 | KOHLER K-2714-4-0 "BRYANT" 19" DIAMETER DROP-IN VITREOUS CHINA LAVATORY - DELTA 501 WF HGM HDF SINGLE LEVER FAUCET WITH .5 GPM FLOW RESTRICTOR AERATOR - OFFSET DRAIN W/ STRAINER - 3/8" CHROME PLATED SUPPLIES W/ WHEEL HANDLE STOPS - 1 1/4" CHROME PLATED BRASS "P" TRAP W/ CLEANOUT PLUG. |
| MS 1 | MOP SINK | 3" | 2" | 1/2" | 1/2" | 3 | 4 | FIAT MSB-2424 MOLDED STONE MOP BASIN W/ #302 COMBINATION DOME STRAINER & LINT BASKET. COLOR #219 - #830-AA CHROME PLATED SERVICE FAUCET W/ VACUUM BREAKER, INTEGRAL STOPS, WALL BRACE, PAIL HOOK, AND 3/4" HOSE THREADED ON SPOUT. |
| WF 1 | WATER FOUNTAIN | 2" | 2" | 1/2" | - | 1 | 1.0 | ELKAY MODEL: LZSTL8WSSP. BI-LEVEL BOTTLE FILLING STATION, FILTERED REFRIGERATED, LIGHT GRAY, ADA COMPLIANT. WITH CANE GUARD. |
| FD 1 | FLOOR DRAIN | 3" | 2" | - | - | 3 | - | ZURN LIGHT COMMERCIAL FULL METAL TOP GENERAL PURPOSE FLOOR DRAIN MODEL NUMBER FD2201-PVC-FMT. (ALTERNATE WADE NO. W-1331-1-5) |

PLUMBING CONTRACTOR SHALL SUBMIT PLUMBING FIXTURE INFORMATION PRIOR TO CONSTRUCTION. ONCE APPROVED, INFORMATION SHALL BE DISTRIBUTED TO ALL SUBCONTRACTORS

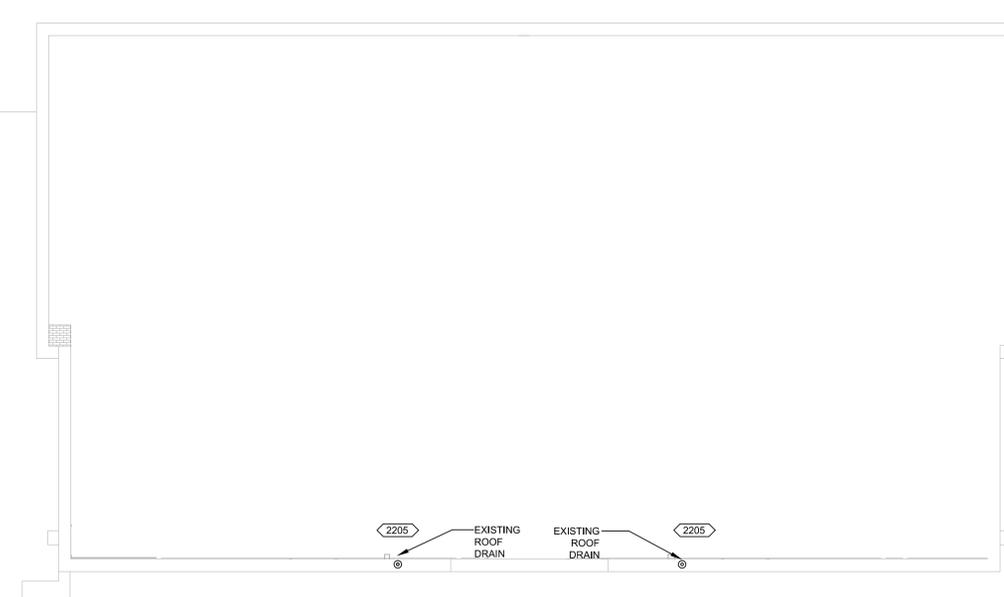


1 PLUMBING FIXTURE SCHEDULE
 SCALE: NONE

2 BASEMENT PLUMBING PLAN
 SCALE: 1/8" = 1'-0"



3 FIRST FLOOR PLUMBING PLAN
 SCALE: 1/8" = 1'-0"



4 FIRST FLOOR PLUMBING PLAN
 SCALE: 1/8" = 1'-0"

| No. | Description | Date |
|-----|--------------|------------|
| 1 | PROGRESS SET | 05-30-2025 |
| 2 | REVIEW SET | 06-06-2025 |

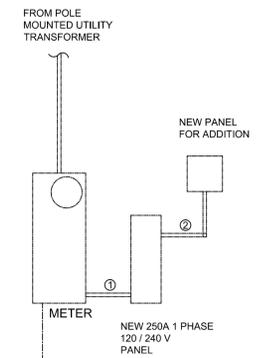
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| Plumbing Series | P1.0 Schedules & Plumbing Plan. |
| Electrical Series | E1.0 Panel Layout, Schedules and Elec. Riser E2.0 Lighting & Power Plan |

| General Notes | |
|-----------------------------------|------------|
| Fixture Schedule Plumbing Plan | |
| Date | 06-06-2025 |
| Drawn by | --- |
| Checked by | SCH |
| P1.0 | |
| Scale | AS NOTED |

- GENERAL NOTES:**
- ALL WORK SHALL CONFORM TO THE LATEST ADOPTED VERSION OF THE NATIONAL ELECTRICAL CODE (NEC).
 - ALL WIRING SHALL BE IN CONDUIT. METAL-CLAD CABLE MAY BE USED IF ALLOWED BY LOCAL JURISDICTION AND APPROVED BY OWNER.
 - CONDUIT SHALL BE EMT WITH COMPRESSION TYPE OR SCREW FITTINGS.
 - ALL FLEXIBLE METALLIC AND PVC CONDUIT WHERE ALLOWED BY LOCAL CODE IS TO BE PROVIDED WITH SEPARATE GROUND WIRE.
 - ALL POWER WIRES AND CABLES SHALL BE COPPER #12 AWG, UNLESS NOTED OTHERWISE OR REQUIRED BY THE MANUFACTURER OF THE CONNECTED DEVICE. WIRE SHALL BE CODE TYPE THWN/THHN, UNLESS OTHERWISE STATED.
 - ALL CIRCUITS SHALL HAVE SEPARATE NEUTRALS, THROUGHOUT THE ENTIRE CIRCUIT.
 - ALL SWITCHES SHALL BE RATED AT 20 AMPS UNLESS OTHERWISE STATED.
 - ALL OUTLETS SHALL BE RATED 15 AMPS. GROUND-FAULT CIRCUIT INTERRUPTER TYPE OUTLETS SHALL BE INSTALLED IN THOSE LOCATIONS AS REQUIRED BY THE NEC OR AS DESIGNATED ON THE DRAWINGS.
 - PROVIDE ALL OUTLET, LIGHTING FIXTURES, AND J-BOXES THROUGHOUT THE AREA IN ACCESSIBLE LOCATIONS. BOXES SHALL BE OF GALVANIZED KNOCK OUT TYPE WITH SCREW COVERS.
 - THE CONTRACTOR SHALL FURNISH AND INSTALL DISCONNECTS FOR HVAC EQUIPMENT.
 - REFER TO MECHANICAL DRAWINGS FOR THE LOCATION OF EXHAUST FANS AND HVAC EQUIPMENT. CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION OF ALL CONDUITS, J-BOXES, WIRING, DISCONNECT SWITCHES, AND THERMOSTAT J-BOXES.
 - SUPPLY SPECIFIED EQUIPMENT OR APPROVED EQUAL.
 - CONTRACTOR SHALL VERIFY ALL EQUIPMENT NAME PLATES AND INSTALLATION REQUIREMENTS PRIOR TO DOING WORK. EQUIPMENT IS TO BE INSTALLED PER MANUFACTURERS SPECIFICATIONS.
 - CLASSROOMS, MULTIPURPOSE ROOMS, OPEN OFFICE AREAS, ENCLOSED OFFICES, BREAKROOMS, RESTROOMS, STORAGE ROOMS, AND WAREHOUSE AREAS SHALL BE PROVIDED WITH OCCUPANT SENSOR CONTROLS PER IECC C405.2.1.
 - PROVIDE LIGHTING REDUCTION CONTROLS WITH MANUAL CONTROL THAT ALLOWS THE OCCUPANT TO REDUCE THE CONNECTED LIGHTING LOAD IN A UNIFORM PATTERN BY NOT LESS THAN 50% BY AN APPROVED METHOD PER IECC C405.2. EXCEPTIONS INCLUDE EMERGENCY AREAS, SECURITY AREAS, STAIRWAYS, EXIT PASSAGES, AND EMERGENCY EGRESS LIGHTING THAT IS NORMALLY OFF.
 - COMMISSIONING DOCUMENTS SHALL BE PROVIDED TO THE BUILDING OWNER OR OWNER'S AUTHORIZED AGENT WITHIN 90 DAYS OF THE DATE OF RECEIPT OF THE CERTIFICATE OF OCCUPANCY IN COMPLIANCE WITH 2018 IECC C408.3.2.

CONDUIT SCHEDULE:

| IDENTIFICATION NUMBER | CONDUIT | WIRING | GROUND |
|-----------------------|---------|--|--------|
| ① | 2" | 2 - 250 KCML CU 1 - 250 KCML CU NEUTRAL | # 4 CU |
| ② | 1" | 2 - # 4 CU 1 - # 4 CU NEUTRAL | # 6 CU |



MAIN DISCONNECT SHALL BE RATED AT 250 AMPS WITH 22,000 AMP SHORT CIRCUIT RATING. THIS IS BASED ON 75 KVA TRANSFORMER WITH A 2.5 IMPEDANCE AND 85' DISTANCE FROM TRANSFORMER TO DISCONNECT.

FAULT CURRENT CALCULATIONS:

THE AVAILABLE FAULT CURRENT FOR ELECTRICAL SERVICE SHALL BE INDICATED AS FOLLOWS (6-4-2025):
 250 AMP SERVICE - 7,370 SYMMETRICAL RMS AMPS

SAMPLE LABEL:

MAXIMUM AVAILABLE FAULT CURRENT:
 7,370 SYMMETRICAL RMS AMPERES
 DATE: 6-4-2025

ELECTRICAL LOAD CALCULATIONS

VERNON SCHOOL (7500 SF)

| RECEPTACLES: | 4,000 VA |
|---|------------------|
| 40 X 180 = | 7,200 |
| - X 1/2 = | - |
| TOTAL: | 7,200 VA |
| KITCHEN/EQUIPMENT: | 6,300 VA |
| HVAC SYSTEMS: | 23,112 VA |
| MOTORS/MISC: | 1,500 VA |
| TOTAL: (120/240 VOLT SINGLE PHASE) | 42,112 VA |
| 42112 / 240 = | 175 AMPS |

3/4" C W #10 CU GROUND TO WATER LINE, BUILDING STEEL STRUCTURE, CONCRETE ENCLOSED REBAR & GROUND RODS PER NEC ARTICLE #250-53a-f

1 ELECTRICAL LOAD CALCULATION AND RISER
 SCALE: NONE

INSTALLATION NOTES: (THIS SHEET ONLY)

2607 FIELD VERIFY EXISTING CIRCUITS AND MOVE TO NEW PANEL.

NEW ELECTRICAL PANEL: A
 (22,000 A.I.C.)

AVAILABLE FAULT CURRENT: 11318 SYMMETRICAL RMS AMPS
 ARC-FLASH WARNING: 31.3 cal/cm² AT 18 INCHES WORKING DISTANCE

VOLTAGE: 120/240V
 Phase: 1Ø kVA: 75
 MAIN: 250 A
 FEED: SEE CONDUIT SCHEDULE

| DESCRIPTION | LOCATION: BASEMENT WALL | | | | MOUNTING SURFACE | | | | |
|--|-------------------------|------|-----|-----|--|------|------|-----|-----|
| | VA | BRKR | CKT | BUS | DESCRIPTION | VA | BRKR | CKT | BUS |
| AC-1 | 3577 | 50 | 2 | 1 | AHU-1 (PREV. B2-9) | 1656 | - | 1 | 1 |
| AC-2 | 3577 | 50 | 2 | 5 | AHU-2 (PREV. B2-11) | 1656 | - | 3 | 3 |
| AC-3 | 3577 | 50 | 2 | 9 | AHU-3 (PREV. B1-18) | 1656 | - | 7 | 7 |
| GFI (PREV. B2-17) | 180 | 20 | 1 | 13 | COUNTER LIGHTS (PREV B2-20) | 360 | - | 8 | 1 |
| DISP FLOOR SINK (PREV. B2-19) | 750 | 20 | 1 | 15 | BASEMENT LIGHTS (PREV B1-20) | 180 | - | 10 | 1 |
| OUTLET (PREV. B1-5) | 180 | 20 | 1 | 17 | EXTERIOR LIGHTING (PREV B2-12) | 500 | - | 12 | 1 |
| SUMP PUMP PLUG, FURNACE LIGHT (PREV B1-13) | 500 | 20 | 1 | 19 | OUTSIDE LIGHTS (E., NE, NW) (PREV B2-14) | 175 | - | 14 | 1 |
| PLUGS UPSTAIRS (PREV. B1-15) | 720 | 20 | 1 | 21 | OUTSIDE LIGHTS (SE, SW) (PREV B2-16) | 175 | - | 16 | 1 |
| DRINKING WATER FOUNTAIN | 500 | 20 | 1 | 23 | REFRIGERATOR (PREV B2-18) | 1200 | - | 18 | 1 |
| NEW LIGHTING | 1200 | 20 | 1 | 25 | NEW LIFT | 1500 | - | 20 | 1 |
| RADON EXHAUST FAN | 1920 | 20 | 1 | 27 | 8 SLOT SUB-PANEL (C) | - | - | 22 | 2 |
| HALL RECEPTACLES | 540 | 20 | 1 | 29 | STOVE (PREV. B2-6,8) | 4500 | - | 26 | 2 |
| VISITORS CENTER RECEPT. | 1260 | 20 | 1 | 31 | VISITORS CENTER RECEPTACLES | 900 | 5 | 30 | 1 |
| CONFERENCE RECEPTACLES | 1260 | 20 | 1 | 33 | CONFERENCE RECEPTACLES | 900 | 5 | 32 | 1 |
| RESTROOM EXHAUST FANS | 500 | 20 | 1 | 35 | WEATHERPROOF ROOF RECEPTACLE | 180 | 1 | 34 | 1 |
| SPARE | - | 20 | 1 | 37 | SPARE | - | - | 36 | 1 |
| BLANK | - | 20 | 1 | 39 | BLANK | - | - | 38 | - |
| BLANK | - | 20 | 1 | 40 | BLANK | - | - | 40 | - |
| BLANK | - | 20 | 1 | 40 | BLANK | - | - | 42 | - |

WATTS: BUS A: 23818
 BUS B: 23052
 TOTAL WATTAGE: 46910

NEW CIRCUITS ARE BOLD

LIGHTING SCHEDULE

| FIXTURE | MANUFACTURER | CATALOG NUMBER | DESCRIPTION | LAMP | | | | MOUNTING | | | | HEIGHT | REMARKS | |
|---------|---------------|---|---|---------|-------|--------|-----------|----------|----------|---------|---------|--------|----------------|--|
| | | | | TYPE | WATTS | LUMENS | COLOR (K) | WALL | RECESSED | SURFACE | PENDANT | | | |
| A | LITHONIA | CPX2X4 3000LM 80 35K A12 MVOLT | 2X4 TROFFER LED FIXTURE - LAY IN AND SURFACE MOUNT | LED | 24.6 | 3180 | 3500 | | | X | X | | 7'-8" | |
| B | LITHONIA | CLX148 3000LM SEF FDL MVOLT 35K 80CRI | 1X4 STRIP LED FIXTURE - SURFACE MOUNT | LED | 18.5 | 2901 | 3500 | | | | X | | 9'-3" & 11'-0" | |
| C | LIVEX | AERO 19 1/4" WIDE BRONZE AND WHITE GLASS 2-LIGHT BATH LIGHT | VANITY LED - USES 2 60 WATT EQUIVALENT LED BULB | LED | 17 | 1400 | 3000 | X | | | | | 6'-6" | |
| D | HALO - COOPER | SLD61235 | SURFACE MOUNT LED FIXTURE. | LED | 8.5 | 648 | 3500 | | | | X | | 11'-0" | |
| E | REGENCY HILL | MINKA LAVERLY SCHOOLHOUSE STYLE 17 1/4" BRUSHED BRONZE | SEMI FLUSH MOUNT. USES 150 WATT EQUIVALENT LED BULB MEDIUM BASE A21 | LED | 22 | 2610 | 3000 | | | | X | | 11'-0" | |
| EXIT W | LITHONIA | LHQ LED R HO M6 120/277 | EXIT SIGN WITH EMERGENCY LIGHTS, HIGH OUTPUT BATTERY | LED | 4.3 | | | X | | X | | | 7'-6" | |
| X | LITHONIA | ELM2L | INTERIOR EMERGENCY LIGHTING UNIT | LED | 1.09 | | | X | | X | | | 7'-6" | |
| EXIT Y | LITHONIA | LQM S W 3 R 120/277 ELN | EXIT SIGN, ROUNDED EDGES, WITH BATTERY | RED LED | 0.05 | | | X | | X | | | 7'-6" | |
| Z | LITHONIA | AFF | EXTERIOR EMERGENCY LIGHTING UNIT | LED | 1.1 | | | X | | X | | | 7'-6" | |

LIGHT FIXTURES SHALL BE APPROVED BY THE OWNER OR OWNERS REPRESENTATIVE PRIOR TO ORDERING OR INSTALLATION

3 LIGHTING FIXTURE SCHEDULE
 SCALE: NONE

INTERIOR LIGHTING POWER DENSITY

| AREA DESCRIPTION | FIXTURE TYPE | FIXTURE LOAD (W) | QUANTITY OF FIXTURES | ACTUAL LOAD (W) | ALLOWED DENSITY (W / S.F.) | AREA OF SPACE (S.F.) | ALLOWED LOAD (W) |
|-------------------------|--------------|------------------|----------------------|-----------------|----------------------------|----------------------|------------------|
| MUSEUM RESTORATION AREA | A | 24.6 | 14 | 344.4 | 1.02 | 2584 | 2636 |
| | B | 18.5 | 7 | 129.5 | | | |
| | C | 17 | 3 | 51 | | | |
| | D | 8.5 | 26 | 221 | | | |
| | E | 22 | 12 | 264 | | | |
| TOTAL | | | | 1010 | | | 2636 |

2 NEW PANELBOARD LAYOUT
 SCALE: NONE

4 LIGHTING POWER DENSITY
 SCALE: NONE

Sheet Index

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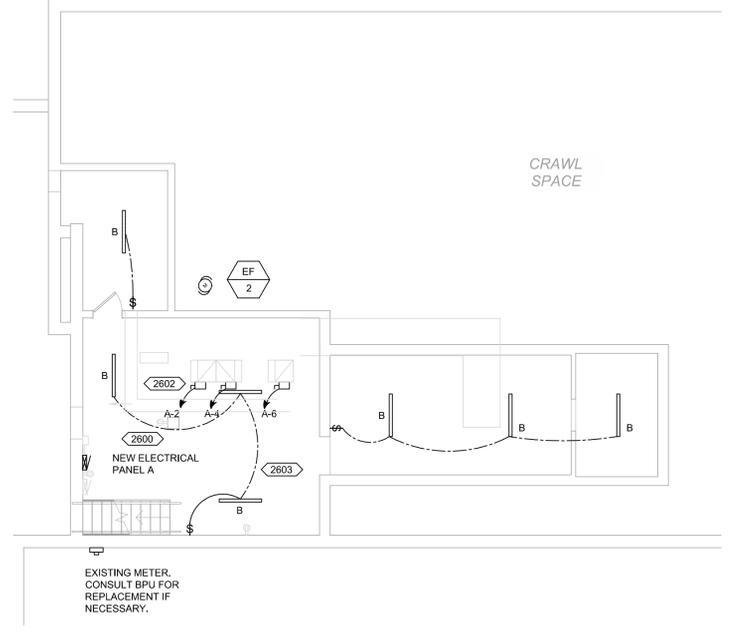
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- Demio Series**
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 - Mechanical Series**
M1.0 Schedules, General Notes & Mechanical Details
M2.0 AHU Details, Mechanical Plan, Roof Mechanical
 - Plumbing Series**
P1.0 Schedules & Plumbing Plan.
 - Electrical Series**
E1.0 Panel Layout, Schedules and Elec. Riser
E2.0 Lighting & Power Plan

INSTALLATION NOTES: (THIS SHEET ONLY)

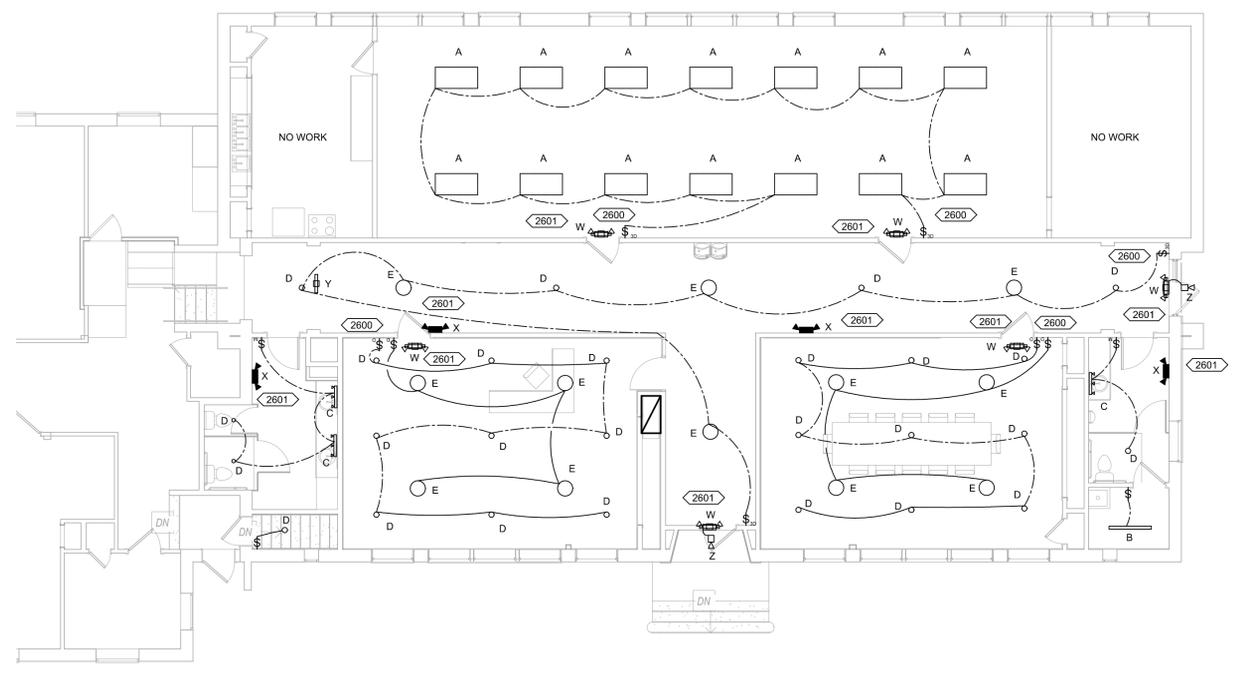
- 2600 LIGHTING SHALL BE CONTROLLED BY MOTION SENSORS AND DIMMERS.
- 2601 EMERGENCY LIGHTS AND EXIT SIGN LOCATIONS SHALL BE FIELD VERIFIED. EXTERIOR DUPLEX RECEPTACLE - MOUNT 24" A.F./A.F.G. - GFI AND WP
- 2602 DISCONNECTS FOR FURNACES SHALL BE ACCESSIBLE.
- 2603 CONTRACTOR SHALL INSPECT ALL EXISTING JUNCTION BOXES. VERIFY INTEGRITY, LABELING, AND COMPLIANCE WITH CURRENT CODE REQUIREMENTS. REPLACE DAMAGED COMPONENTS. SECURE LOOSE WIRING. AND UPDATE COVER PLATES AS NECESSARY TO ENSURE PROPER FUNCTIONALITY AND SAFETY.
- 2604 REMOVE SURFACE MOUNTED RECEPTACLES LOCATED WITHIN THE RENOVATED ROOMS AND ASSOCIATED CONDUIT/WIRING.
- 2605 REMOVE EXISTING RECEPTACLE AND ASSOCIATED WIRING, AND INSTALL NEW RECEPTACLE WITH NEW WIRING.
- 2606 PROVIDE A WEATHERPROOF RECEPTACLE WITHIN 25 FEET OF THE CONDENSERS.

HCE
 HUGHES CONSULTING ENGINEERING, PA
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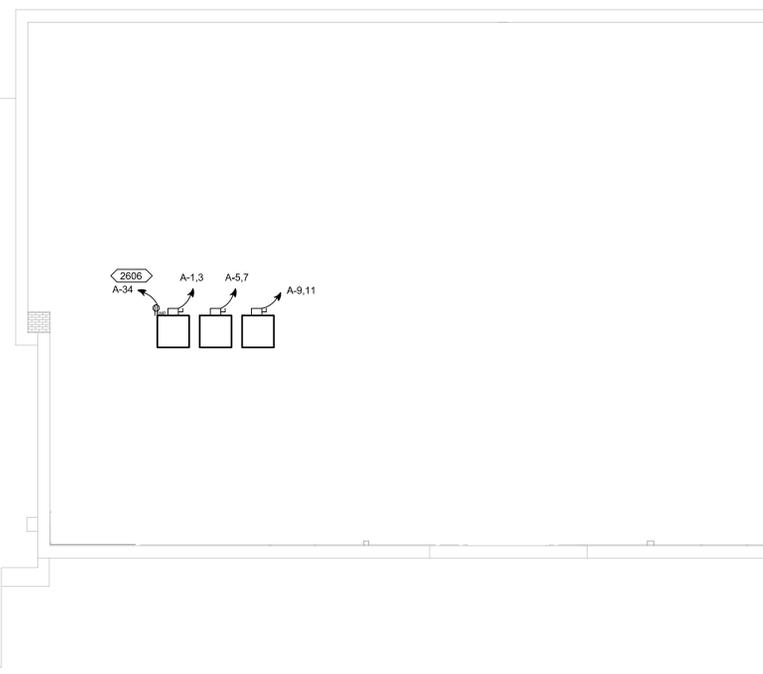
VERNON SCHOOL PHASE 1
 3436 N. 27TH STREET



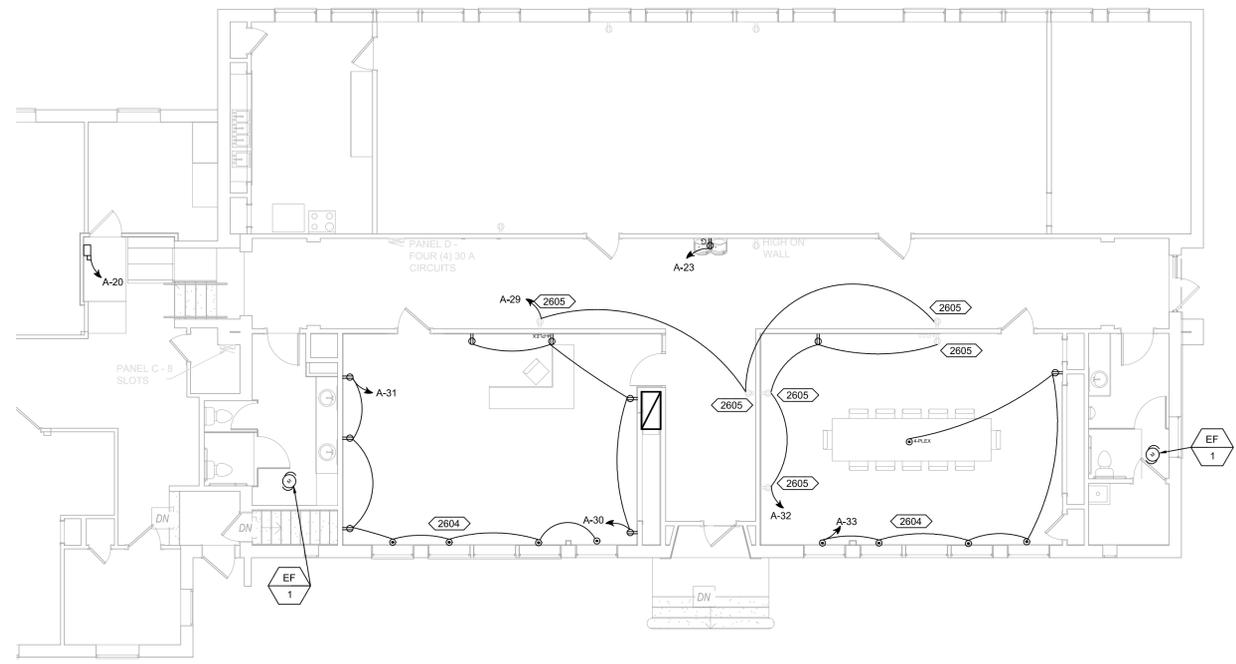
1 BASEMENT LIGHTING AND POWER PLAN
 SCALE: 1/8" = 1'-0"



3 1ST FLOOR LIGHTING
 SCALE: 1/8" = 1'-0"



2 ROOF ELECTRICAL PLAN
 SCALE: 1/8" = 1'-0"



4 1ST FLOOR POWER PLAN
 SCALE: 1/8" = 1'-0"

LIGHTING & POWER LEGEND:

- ⊕ STANDARD DUPLEX RECEPTACLE MOUNTED AT 18" TO CENTER ABOVE FINISHED FLOOR, (A.F.F.)
- ⊕ GROUND FAULT INTERRUPTER TYPE RECEPTACLE, LEVITON RGF15-WG OR EQUIVALENT - FOR USE IN BATHROOMS/RESTROOMS/KITCHEN, AND OTHER AREAS WHERE WATER IS PRESENT.
- ⊕ WEATHER RESISTANT GROUND FAULT INTERRUPTER TYPE RECEPTACLE WITH WEATHERPROOF BOX, LEVITON IJM1V-KRG OR EQUIVALENT - FOR USE OUTDOORS.
- ⊕ STANDARD QUAD/4-PLEX RECEPTACLE MOUNTED AT 18" TO CENTER ABOVE FINISHED FLOOR, (A.F.F.)
- ⊕ STANDARD DUPLEX RECEPTACLE MOUNTED IN FLOOR IN CONCRETE FLOOR BOX.
- ⊕ EQUIPMENT MOTOR
- ⊕ ELECTRICAL PANEL
- ⊕ DISCONNECT SWITCH
- ⊕ EXIT SIGN
- ⊕ EMERGENCY LIGHT (90° A.F.F.)
- ⊕ COMBINATION EMERGENCY LIGHT AND EXIT SIGN (90° A.F.F.)
- ⊕ REMOTE (STOOP) EMERGENCY LIGHT - FIXTURE TYPE
- ⊕ SURFACE MOUNT LED FIXTURE
- ⊕ 2' X 4' LED FIXTURE
- ⊕ STANDARD SWITCH (48" A.F.F.)
- ⊕ OCCUPANCY DIMMER (48" A.F.F.), SCL-153-IV OR EQUIVALENT.
- ⊕ OCCUPANCY DIMMER (48" A.F.F.), SCL-153-IV OR EQUIVALENT, 3-WAY

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 M2.0 AHU Details, Mechanical Plan, Roof Mechanical

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 P1.0 Schedules & Plumbing Plan.

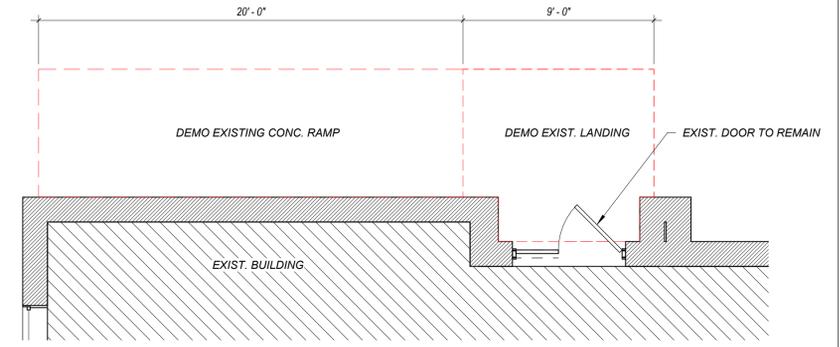
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 E2.0 Lighting & Power Plan

Lighting & Power Plan

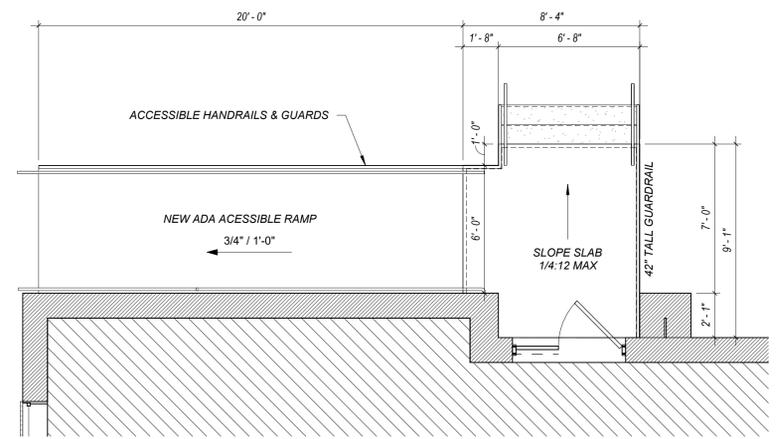
| | |
|-------------|------------|
| Date | 06-06-2025 |
| Drawn by | --- |
| Checked by | SCH |
| E2.0 | |
| Scale | AS NOTED |



1 ARCHITECTURAL SITE PLAN
1/16" = 1'-0"



2 EXIST RAMP & STAIRCASE - DEMO PLAN
1/4" = 1'-0"



3 NEW RAMP & STAIRCASE
1/4" = 1'-0"

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785 - 749 - 5806

SHEET INDEX - PHASE 2

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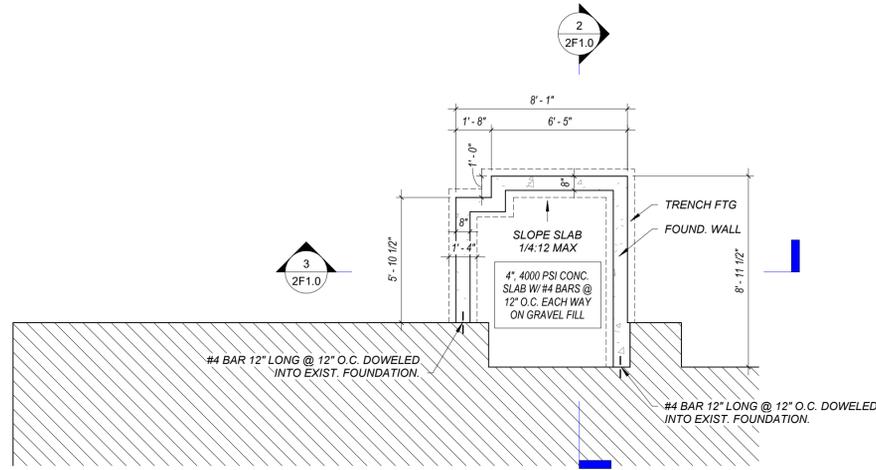
SITE PLAN

Date: 6/27/2025
Drawn by: MEB
Checked by: SCH
Revisions:

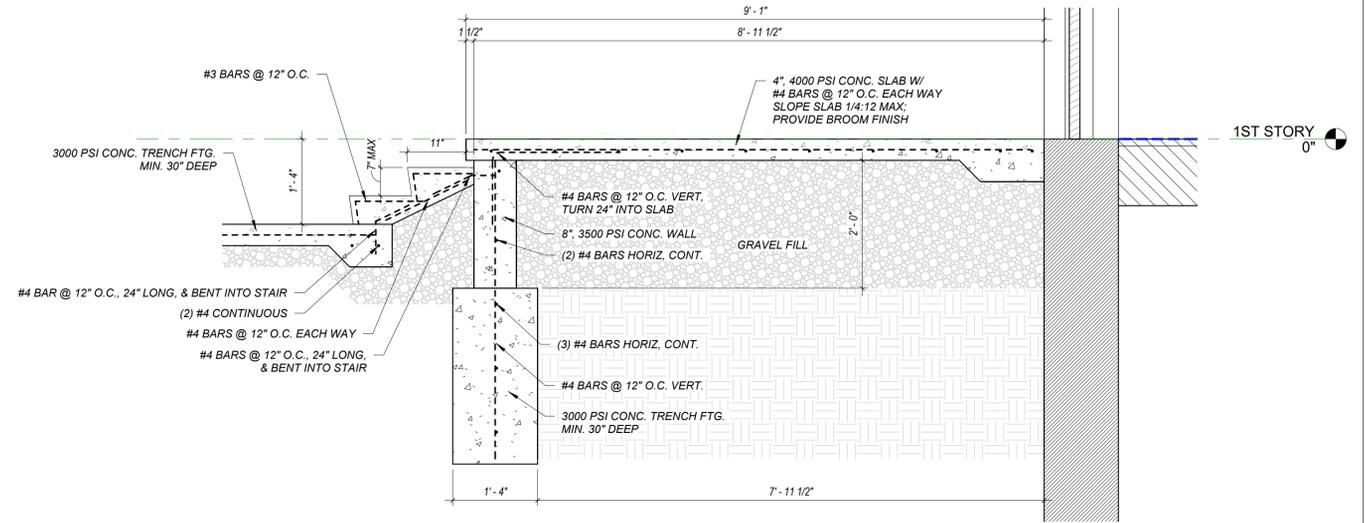
2A0.0

**VERNON SCHOOL - INTERIOR REHABILITATION
PHASE 2**

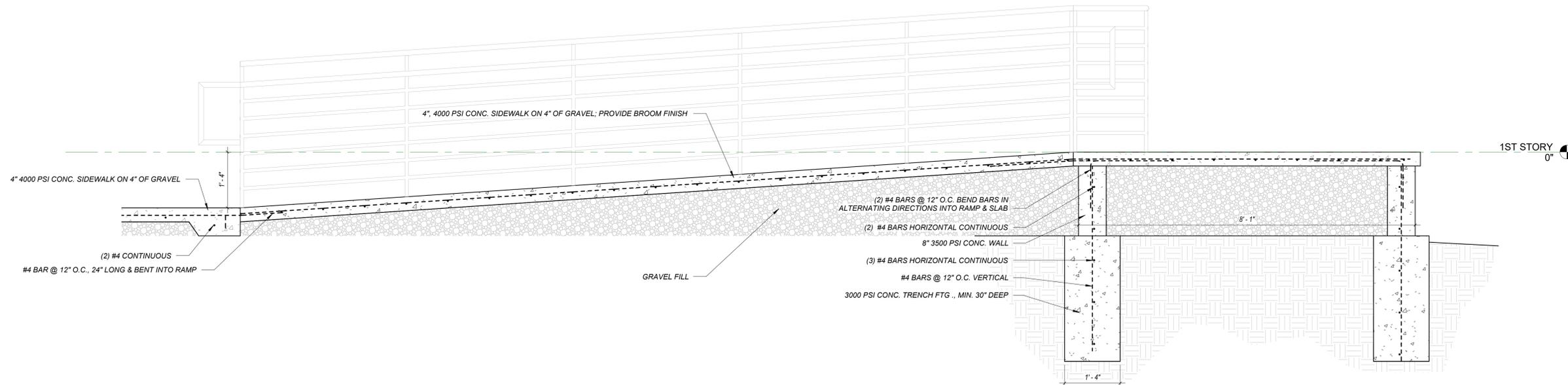
3436 N 27TH STREET
KANSAS CITY, KS 66104



1 NEW RAMP & STAIRCASE
1/4" = 1'-0"



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



3 SECTION 2
3/4" = 1'-0"

**VERNON SCHOOL - INTERIOR REHABILITATION
PHASE 2**

3436 N 27TH STREET
KANSAS CITY, KS 66104



1100 Rhode Island
Lawrence, Kansas 66044
785 - 749 - 5806

FOUNDATION PLANS &
DETAILS

Date: 6/27/2025
Drawn by: MEB
Checked by: SCH
Revisions:

2F1.0