

# Gymnasium Storage Addition & Improvements

## Bethany Town Hall

## Town of Bethany

**Paula Cofrancesco, First Selectwoman**

Town of Bethany, 40 Peck Road, Bethany, CT 06524

**Don Shea, Director of Public Works**

Town of Bethany, 755 Amity Road, Bethany, CT 06524

Prepared By

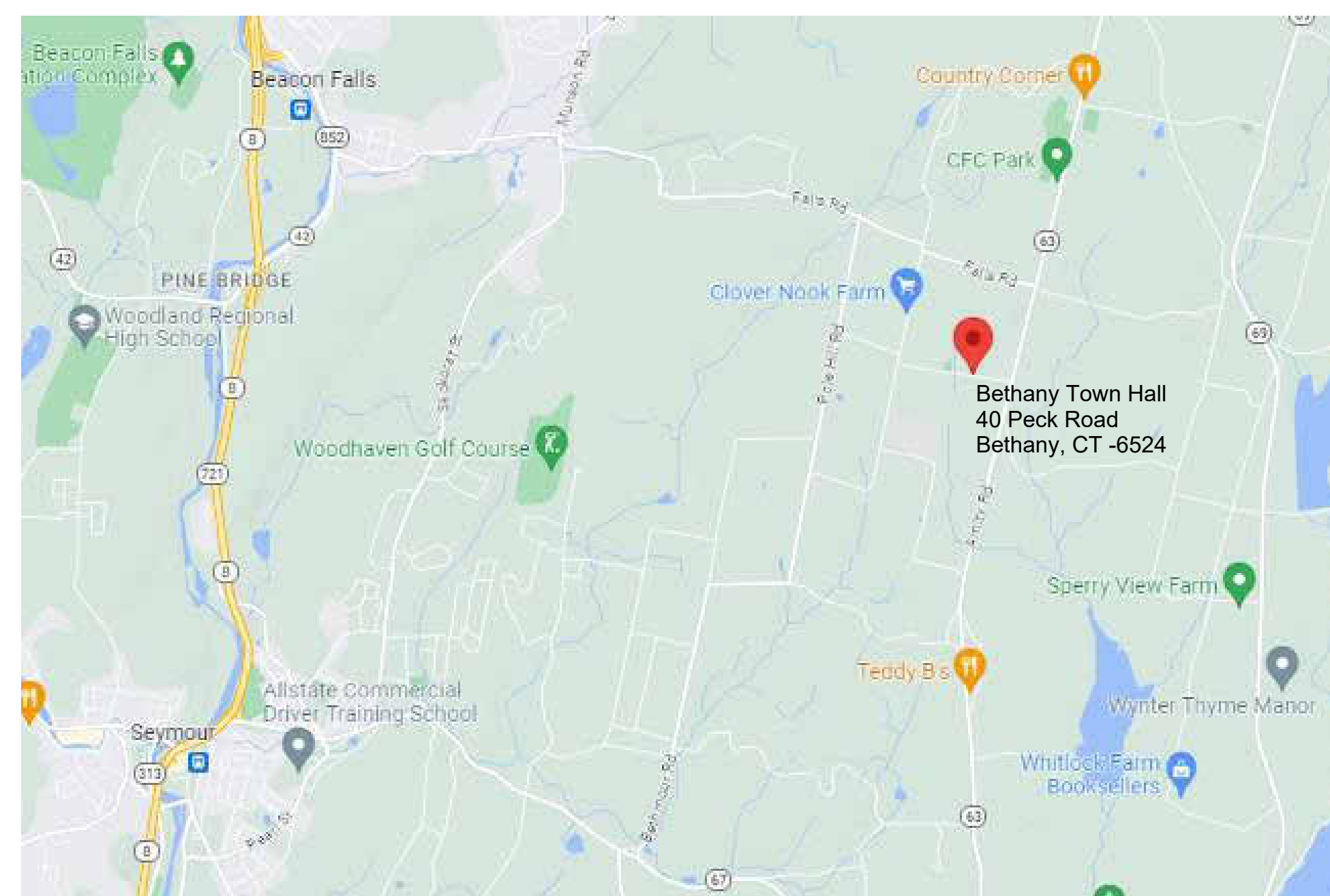
**O'Riordan Migani Architects LLC**

Architecture, Planning & Urban Design, 22 Bank Street, Seymour, CT 06483 P(203) 888-7667

**Innovative Engineering Services**

MEPFS + Structural Engineering, 33 North Plains Industrial Road, Wallingford, CT 06492 P(203) 467-4370

Location Map

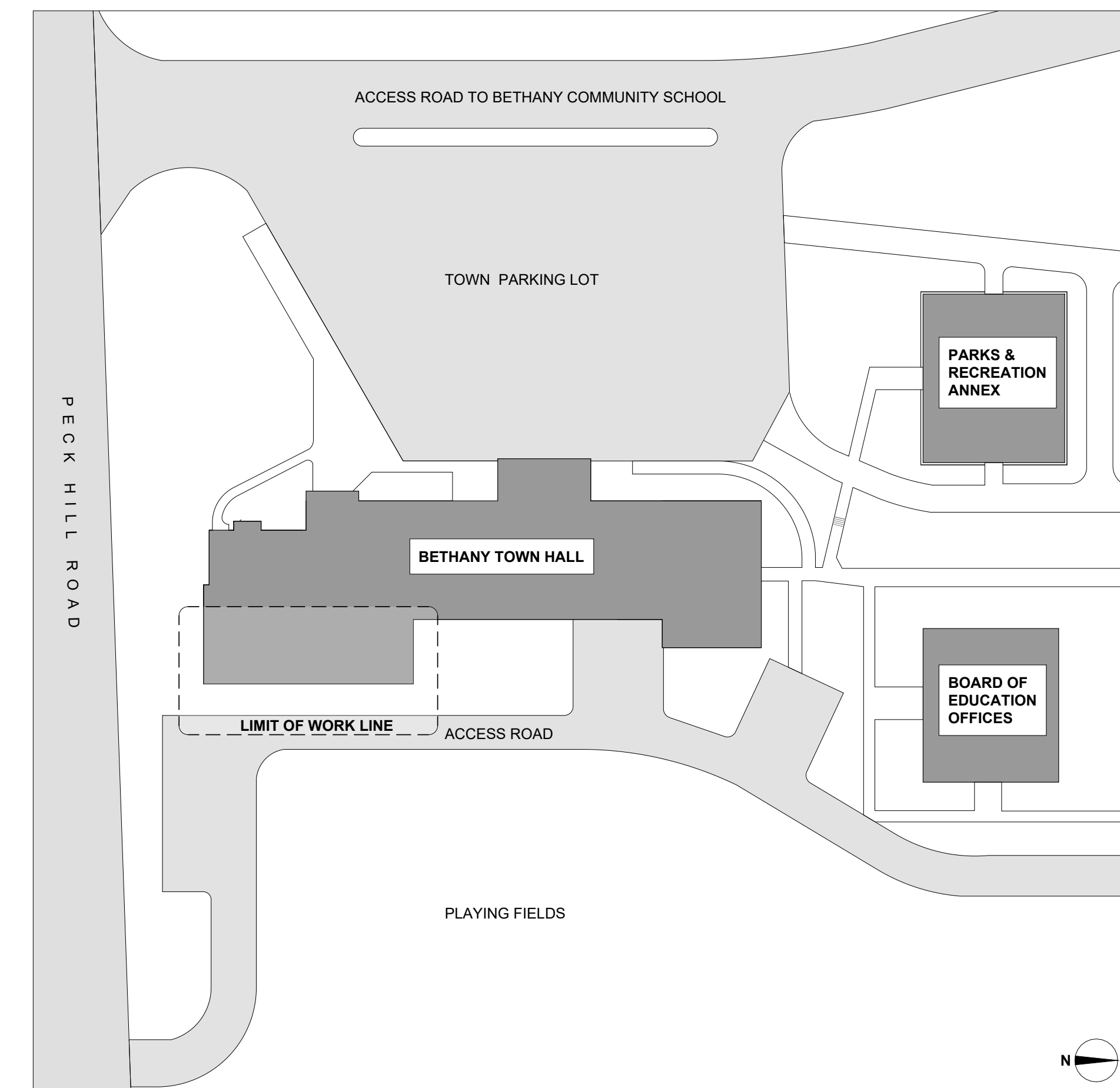


11-10-23

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### Reference Site Plan (Scale: 1"=50')



- GENERAL NOTES:**
- A. THIS PROJECT ENTAILS AN ADDITION AND RELATED IMPROVEMENTS TO THE GYMNASIUM IN THE BETHANY TOWN HALL LOCATED AT 40 PECK ROAD, BETHANY, CONNECTICUT 06524. THE OWNER REPRESENTATIVE AND CONSTRUCTION MANAGER FOR THE PROJECT IS DON SHEA, FACILITIES/PUBLIC WORKS MANAGER, TOWN OF BETHANY, PUBLIC WORKS TOWN GARAGE, 755 AMITY ROAD, BETHANY, CONNECTICUT 06524. P475 238-6986. [dshea@bethany-ct.com](mailto:dshea@bethany-ct.com)
  - B. THE CONSULTING ARCHITECT FOR THE PROJECT IS O'RIORDAN MIGANI ARCHITECTS LLC, 22 BANK STREET, SEYMOUR, CONNECTICUT 06483. THE PROJECT ARCHITECT IS JOSEPH MIGANI, AIA, C203 688 7985. [jm@omaarchitects.com](mailto:jm@omaarchitects.com)
  - C. THE DELIVERY PROFILE OF THIS PROJECT IS AS FOLLOWS:
    - a. THE ARCHITECT WILL PRODUCE A TECHNICAL SPECIFICATION OF THE WORK FOR PROCUREMENT.
    - b. THE CONSTRUCTION MANAGER/OWNER WILL COMPETITIVELY BUY OUT THE PROJECT FROM QUALIFIED TRADE SUBCONTRACTORS REQUIRED TO IMPLEMENT THE WORK.
    - c. THE ARCHITECT WILL PROVIDE ONGOING SUPPORT TO THE CONSTRUCTION MANAGER/OWNER IN THE FORM OF BID REVIEW, SHOP DRAWING REVIEW AND FIELD VISITS AS REQUIRED TO FACILITATE AND COMPLETE IMPLEMENTATION OF THE WORK.
  - D. BASE CONTRACT SCOPE OF WORK:
    - a. REMOVAL OF EXISTING EXTERIOR WOOD RAMP AND CONCRETE RAMP ON EAST ELEVATION OF GYMNASIUM.
    - b. REMOVAL OF EXISTING EXTERIOR CONCRETE RAMP ON EAST ELEVATION OF GYMNASIUM.
    - c. REMOVAL OF THE EXISTING DUMPSTER ENCLOSURE INCLUDING CONCRETE PAD AND EXTERIOR FENCING.
    - d. REMOVAL OF EXISTING ASPHALT DRIVEWAY AS REQUIRED FOR CONSTRUCTION OF ADDITION.
    - e. CONSTRUCTION OF A NEW STORAGE ROOM ADDITION.
    - f. DEMOLITION OF EXISTING HVAC SYSTEM IN GYMNASIUM.
    - g. INSTALLATION OF A NEW HVAC SYSTEM IN GYMNASIUM.
    - h. INSTALLATION OF ALUMINUM ROOF TOP HVAC SCREEN.
    - i. NEW MECHANICAL, ELECTRICAL, PLUMBING & FIRE SAFETY SYSTEMS IN THE GYMNASIUM RELATED TO THE STORAGE ROOM ADDITION.
    - j. NEW INTERIOR FINISHES IN THE RENOVATED GYMNASIUM SPACE AND NEW STORAGE ROOM ADDITION AS INDICATED IN THE DRAWINGS.
  - E. ADD ALTERNATE SCOPE OF WORK:
    1. INSTALLATION OF NEW CONCRETE LANDINGS AND STAIR WITH STEEL PIPE RAILINGS ON SOUTH SIDE OF NEW GYM STORAGE ROOM ADDITION.
    2. INSTALLATION OF NEW CONCRETE LANDINGS, STAIR AND RAMP WITH STEEL PIPE RAILINGS ON NORTH SIDE OF NEW GYM STORAGE ADDITION.
    3. CONSTRUCTION OF A NEW DUMPSTER ENCLOSURE AS INDICATED IN THE DRAWINGS.

OMA 23251





PROJECT: Gymnasium Storage Addition & Improvements  
Bethany Town Hall  
40 Peck Road, Bethany, CT 06424

#### DIV. 1 GENERAL REQUIREMENTS

##### OWNER REPRESENTATIVE

The owner representative and construction manager for the project is Don Shea, Facilities/Public Works Manager, Town of Bethany, Public Works, Town Garage, 755 Amily Road, Bethany, Connecticut 06524.  
P475 236-6966, email: [dshes@bethany-ct.com](mailto:dshes@bethany-ct.com).

##### PROJECT DELIVERY METHOD

The delivery profile of this project is as follows:

- The Architect will produce technical specifications and drawings of the work for procurement.
- The Owner will serve as the Construction Manager who will competitively buy out the project from qualified trade subcontractors required to implement the work.
- The Architect will provide ongoing support to the Construction Manager/Owner in the form of bid review, shop drawing review and field visits as required to facilitate and complete implementation of the work.

##### BASE CONTRACT SCOPE OF WORK

The base contract Scope of Work shall consist of the following:

- Removal of existing exterior wood ramp and concrete ramp on East Elevation of Gymnasium.
- Removal of existing exterior concrete ramp on East Elevation of Gymnasium.
- Removal of the existing dumpster enclosure including concrete pad and exterior fencing.
- Removal of existing asphalt driveway as required for construction of addition.
- Construction of a new storage room addition.
- Demolition of existing HVAC system in gymnasium.
- Installation of a new HVAC system in gymnasium.
- Installation of aluminum roof top HVAC screens.
- New mechanical, electrical, plumbing & fire safety systems in the gymnasium related to the storage room addition.
- New interior finishes in the renovated gymnasium space and new storage room addition as indicated in the drawings.

##### ADD ALTERNATE SCOPE OF WORK

Add Alternate Scope of Work items shall consist of the following:

- Installation of new concrete landings and stair with steel pipe railings on South side of new Gym Storage Room Addition.
- Installation of new concrete landings, stair and ramp with steel pipe railings on North side of new Gym Storage Addition.
- Construction of a new dumpster enclosure as indicated in the drawings.

##### OVERTIME

There are no requirements for overtime. Contractor shall schedule his forces and work so as to not interfere with the daily occupancy and operations of the College. Coordinate construction operations with the Agency Representative.

##### SPECIAL PROJECT PROCEDURES

Contractor shall perform the work required of this project in such a way so as not to interfere with the regular and on-going programs, services, and other functions of the College. Therefore, the construction schedule must be coordinated with the College schedule of programs and services, which may require work to be done on weekends and holidays and at other times when classes are not in session.

##### PRECONSTRUCTION CONFERENCE

The Architect will organize a Pre-construction Conference and notify the parties concerned.

##### SHOP DRAWINGS

- Details shall be large scale or full size.
- The Contractor shall review the Shop Drawings, stamp with his approval and submit them with reasonable promptness and in orderly sequence so as to cause no delay in his work or in the work of any subcontractor. Shop Drawings shall be identified for item, material and project number. The Contractor shall inform the Architect, in writing, of any deviation in the Shop Drawings from the requirements of the Contract Documents.
- The Architect will review and comment on Shop Drawings with reasonable promptness so as to cause no delay but only for conformance with the design concept of the project and with the information given in the Contract documents.
- The Architect's review of Shop Drawings does not relieve the Contractor of responsibility for deviations from the requirements of the Contract Documents.

Submittal Schedule: Provide submittals for the following materials, products or systems:

Concrete	Product Data
Asphalt	Product Data
Insulated CMU	Product Data
Exterior Brick & Mortar	Product Data (match existing)
Flashings	Product Data
Structural Wood Framing	Product Data
Structural Plywood Sheathing	Product Data
Exterior Trim (PVC)	Product Data
EPDM Roofing & Accessories	Product Data
HVAC Roof Screen	Product Data & Shop Drawings
Rain Gutter & Leader	Product Data
Hollow Metal Frames:	Product Data & Shop Drawings
Exterior Aluminum Doors	Product Data & Shop Drawings (Add Alternate)
Painted Steel Pipe Handrails	Product Data & Shop Drawings (Add Alternate)
Dumpster Enclosure & Pad	Product Data & Shop Drawings
Interior Wood Doors:	Product Data & Shop Drawings
Door Hardware:	Schedule, Product Data
Paint:	Product Data, Drawdowns

##### QUALITY CONTROL

- Comply with manufacturers' instructions and specifications for storage and use of their products.
- Comply with instructions in full detail, including each step in sequence. Should instructions conflict with Contract Documents, request clarification from the Engineer before proceeding.
- When specified, require manufacturer to provide qualified personnel to observe field conditions; installation; quality of workmanship; to test, adjust and balance equipment, as applicable.
- Where required by the Specifications, submit certificates to the Engineer, executed by a responsible officer of the manufacturer, warranting that product meets or exceeds specified requirements.
- When required by the Specifications, submit manufacturer's data sheets, including instructions and recommendations.

##### BARRIERS AND ENCLOSURES

- Provide barriers to prevent public entry into construction areas and to protect existing facilities from damage by construction operations.
- Provide barriers around trees and plants designated to remain. Protect against vehicular traffic, materials dumping, chemically injurious materials, puddling or running water.
- Provide temporary, insulated, weather tight closures at openings to the exterior to provide acceptable working conditions and protection for materials, and to prevent entry of unauthorized persons.
- Barriers and enclosures shall be in conformance with code requirements. Do not block egress from occupied buildings unless necessary to further the work of the Contract. In this case, secure the Agency's approval of an alternate egress plan.

##### PROTECTION

Protect buildings, equipment, furnishings, grounds and plantings from damage. Any damage shall be repaired or otherwise made good at no expense to the State.

Provide protective coverings and barricades to prevent damage or physical injury. The Contractor shall be held responsible for, and must make good at his own expense, any water or other type of damage due to improper coverings. Protect the public and building personnel from injury.

Provide temporary protection for installed products. Control traffic in immediate area to minimize damage.

Provide protective coverings for walls, projections, jams, sills and soffits of openings. Prohibit traffic and storage on waterproofed and roofed surfaces and on lawn and landscaped areas.

##### TEMPORARY CONTROLS

Consult with the Owner to determine any specific requirements for:

- Dust Control (construction and demolition).
- Noise Control.
- Fume Control.

##### FIELD OFFICES AND SHEDS

- The Owner will furnish a room for the contractor's use during construction if required. The contractor will be responsible for providing field office if required. The location shall be coordinated with the Owner.
- Storage sheds for tools, materials and equipment shall be weather tight with heat, lighting and ventilation for products requiring controlled conditions.
- Clean and repair damage caused by use of temporary facilities. Restore existing facilities used during construction to specify or to original condition.

##### INSPECTIONS AND TESTS

- All material and workmanship is subject to inspection, examination and test by the Owner, Architect or Engineer at any time during manufacture and/or construction and at any place where manufacture and/or construction is done. Laboratory tests, if required, shall be paid for by the Owner except when the test shows the work to be defective. The original failed test, and all other retesting related to it shall be made at the Contractor's expense. A minimum of 48 hours notice of the time of tests to be made at the site shall be given to all interested parties.
- Without additional charge, the Contractor shall promptly furnish facilities, labor and materials necessary to make tests. Tests shall be as directed or referenced in the specifications.
- If before final acceptance of the work, the Engineer considers it necessary to advisable to examine any portion of work, the Contractor shall furnish facilities, labor and materials for the examination. If the work is found to be defective or if any work has been covered without the approval or consent of the Engineer or Owner (whether or not it is found to be defective), the Contractor shall be liable for testing costs and the costs of correction, including labor, material, services of consultants, additional supervision and administrative costs.

##### PREVAILING WAGE RATES

Prevailing wage rates do not apply to this Project.

##### OWNER'S RIGHT TO WITHHOLD PAYMENTS

- The Owner may withhold a portion of any payment due the Contractor as may, in the judgment of the Owner, be necessary.
- To assure payment of just claims then due to any persons supplying labor or materials for the work.
- To protect the Owner from loss due to defective work not remedied.
- To protect the Owner from loss due to injury to persons or damage to the work or property of other contractors, subcontractors or others caused by the act or neglect of the Contractor or any of his subcontractors.
- The Owner retains the right to apply any amount he deems proper to satisfy claims or to secure such protection. The application of such moneys shall be deemed payments to the account of the contractor.

#### DIV. 2 EXISTING CONDITIONS

##### DEMOLITION

Remove and dispose of items and materials indicated. Do not use cutting torches for demolition work. Comply with all applicable regulations regarding disposal of construction debris. Provide dumpsters demolition and construction debris. Remove debris from work area daily. Do not use the Owner's trash receptacles and dumpsters.

Exterior - Remove existing exterior wood and concrete stairs, landings and ramps. Remove existing dumpster enclosure and slab.

Interior - Remove and salvage gym wall pads as required for performance of the work. Modify and reinstall same as required to accommodate new entry doors (2x) to new Gym Storage Room.

##### CUTTING, PATCHING & REPAIR

Protect existing materials, devices, fixtures, and equipment indicated to remain. Repair or replace any damaged items or surfaces to "as new" condition. Where new work adjoins existing, paint or refinish so that there is no visible difference between new and existing.

Saw cut and remove existing asphalt paving in driveway as required to accommodate performance of the work and as indicated on the drawings.

#### DIV. 3 CONCRETE

NEW FOUNDATION WALL, FOOTINGS & FLOOR SLAB (Base Contract)  
NEW CONCRETE STOOP, LANDINGS, STAIRS AND RAMPS (Add Alternate)

Install new foundation walls and footings and floor slab with as indicated on the drawings. Use 4,500 PSI concrete minimum. Provide plant mix documentation and slump tests with report from testing laboratory retained by the Contractor.

#### DIV. 4 MASONRY

NEW CMU & BRICK EXTERIOR WALL

Install new 8" x 16" x 8" CMU With air cavity and exterior brick veneer to match existing. Install with lateral steel Dur-O-Wall masonry reinforcement and anchors 16" O.C. (V) typical. Pin new CMU to existing masonry exterior gym wall with 12' long #5 steel reinforcing bar 16" O.C.(V) typical. Source product from single supplier. Use cementitious mortar color matched to existing building. Stain brick, if necessary, to match existing brick on exterior Gym wall. Provide thru-wall flashing at base of wall cavity with plastic weeps 24" O.C.(H). All CMU to have rigid insulation inserts in cores.

#### DIV. 5 METALS - NOT USED

#### DIV. 6 WOOD & PLASTICS

##### ROUGH CARPENTRY

Framing: PROVIDE 2x12 Douglas Fir structural grade framing joists with not less more than 8% moisture content. Install on pressured treated sill plate at top of wall location. Use Simson joist hangers at 2x12 double wall support ledger thru bolted to existing masonry gym wall.

#### DIV. 8 DOORS & WINDOWS

##### DOOR FRAMES, NON-RATED

###### Interior Standard Steel Door Frame

Location: New Storage Room (2x)  
Size: 6'-4" x 7'-0"  
Head/Jambs: 2-inches wide face  
Material: Uncoated steel sheet, minimum thickness of 0.053 inch (16 gage)  
Construction: Welded  
Finish: Shop primed and field painted

###### Aluminum Exterior Door Frame (2x)

Location: Replaces existing aluminum from Gymnasium to Exterior  
Size: 5'-4" x 7'-4" masonry opening  
Head/Jambs/Mullion: 2-inches wide  
Material: Naturally finished mill aluminum, minimum thickness to match existing but not less than 1mm.  
Construction: Knocked down  
Finish: Natural finished aluminum to match existing

##### DOORS

###### Door #1 & #2: Storage Room to Gymnasium

Description: New double leaf wood door in new hollow metal frame.  
Type: Solid-core, five-ply flush wood veneer-faced door for transparent finish. To match existing.  
Standard: AWI Quality Certification  
Size: 3'-0" x 7'-0" x 1-3/4"  
Perf. Grade: Standard  
Faces: Single-plywood veneer not less than 1/50 inch thick.  
Species: Match existing in building.  
Veneer: Book match between veneer leaves, balance match assembly of leaves on door faces.  
Edges: Same species as faces for exposed vertical edges, Architectural Woodwork Standards edge Type A.  
Core: Glued wood stave or WDMA I S 10 structural composite lumber.  
Construction: Five plies, hot-pressed bonded, with vertical and horizontal edging bonded to core, and with entire unit abrasive planed before veneering.  
Finish: Factory finish, clear conversion varnish, semi-gloss. Match finish on adjacent wood veneer doors in Gymnasium.  
Vision Panel: None.

###### Door #3: Gymnasium to Exterior (south side of addition)

Description: New exterior weather stripped aluminum door. with fixed sidelight  
Operation: Single Leaf  
Size: 3'-0" x 7'-0" x 1-3/4"  
Glazing: 3/4U laminated tempered glazing in gasketed aluminum frame.

###### Door #4: Gymnasium to Exterior (north side of addition)

Description: New exterior weather stripped aluminum door. with fixed sidelight  
Operation: Double unequal leaf.  
Size: 3'-0" x 7'-0" x 1-3/4" full leaf  
3'-0" x 7'-0" x 1-3/4" short leaf  
Glazing: 3/4U laminated tempered glazing in gasketed aluminum frame.

##### DOOR HARDWARE (submit shop drawing with manufacturer cut sheets)

- Set #1: Gymnasium to Storage Room Doors**
- 6 Hinges: Ives-Alegion 5BB1 full mortise, ball bearing, 4.5x4.5 inches, NRP
  - 2 Lockset: Arrow MLX Series Cylindrical Lockset, Sierra Lever, MLX 87 classroom function, finish US26D / 626, Grade 2, 10 year warranty. Locking mechanism shall be operated from exterior of room (Gymnasium side). Master key to building standard as directed by Owner. Provide top and bottom surface mounted throw bolt on fixed leaf.
  - 2 Kickplate: Ives-Alegion brass plate 0.050" thick, 9"x3/4", with countersunk mounting holes, 4 beveled edges, finish US26D / 626 (Satin Chrome)
  - 2 Stop: Ives-Alegion FS13 Dome Stop, with R14 Dome Stop Rise where needed to accommodate thresholds or floor level changes, finish US26D / 626 (Satin Chrome)
  - 6 Silencers: Ives-Alegion SR64 door silencer, color gray

###### Set #3: Gymnasium to Exterior Aluminum Storefront Door & Frame (single leaf with sidelight)

1 Assembly: Commercial manufactured unit with integral panic bar hardware, hinges, silencers, weatherstripping, door saddle and closer. Master key to building.

###### Set #4: Gymnasium to Exterior Aluminum Storefront Doors & Frame (double unequal leaf)

1 Assembly: Commercial manufactured unit with integral panic bar hardware, hinges, silencers, weatherstripping, door saddle and closer. Fixed leaf to have concealed top and bottom throw bolts. Master key to building.

#### DIV. 9 FINISHES

##### GYPSUM BOARD

Type: Interior, ASTM C1396, with moisture- and mold-resistant core and paper surfaces  
Thickness: 5/8"  
Long Edges: Tapered  
Mold Resistance: ASTM D3273, score of 10 as rated according to ASTM D3274.  
Manufacturers: American Gypsum  
CertainTeed Corporation  
Georgia-Pacific Gypsum LLC  
National Gypsum Company  
USG Corporation  
Interior Trim: Cornerbead, J-Bead, and L-Bead fabricated from galvanized or aluminum-coated steel sheet or rolled zinc  
Joint Tape: Paper  
Joint Compound: Drying-type, all-purpose compound applied in three coats  
Finish Level: 4 at panel surfaces that will be exposed to view  
Flooring: Clear seal finish concrete.

##### PAINT

Manufacturers: Benjamin Moore & Co.  
PPG Paints  
Sherwin Williams Company  
Colors: As selected by Architect from Benjamin Moore & Co.'s full range.  
Hollow Metal: Steel door and window frames, new and existing  
& Steel Lintels Prime Coat: New metal to be factory primed. Existing metal also requires primer.  
Intermediate Coat: Interior latex matching topcoat.  
Topcoat: Interior latex, gloss (MPI Gloss Level 5).  
Topcoat Product: Benjamin Moore, Ultra Spec HP D.T.M. Acrylic Enamel.

Gypsum Board Prime Coat: Latex primer sealer, interior.  
& CMU Prime Coat Product: Benjamin Moore Fresh Start Multi-Purpose Latex Primer.  
Intermediate Coat: Interior latex matching topcoat.  
Topcoat: Interior latex, semi-gloss (MPI Gloss Level 5).

##### DIV. 10 SPECIALTIES - not used

##### DIV. 11 APPLIANCE SCHEDULE not used

##### DIV. 12 FURNISHINGS not used

**REFER TO ENGINEERING DRAWINGS FOR DIV. 22 PLUMBING, DIV. 23 HVAC, & DIV. 26 ELECTRICAL**

job: OMA 23251

Date: 11-06-23

North Arrow

Stamp:

Drawing Title:

Scale:

Drawn: OMA

Revised: ---

North Arrow

Stamp:

Drawing Title:

General Notes & Specifications

Prepared By: O'Riordan Miganí Architects LLC  
22 Bank Street, Seymour, CT 06483 783.888.7687

Innovative Engineering Services, LLC  
13 North Plains Industrial Park, Wallingford, CT 06495 783.467.4340

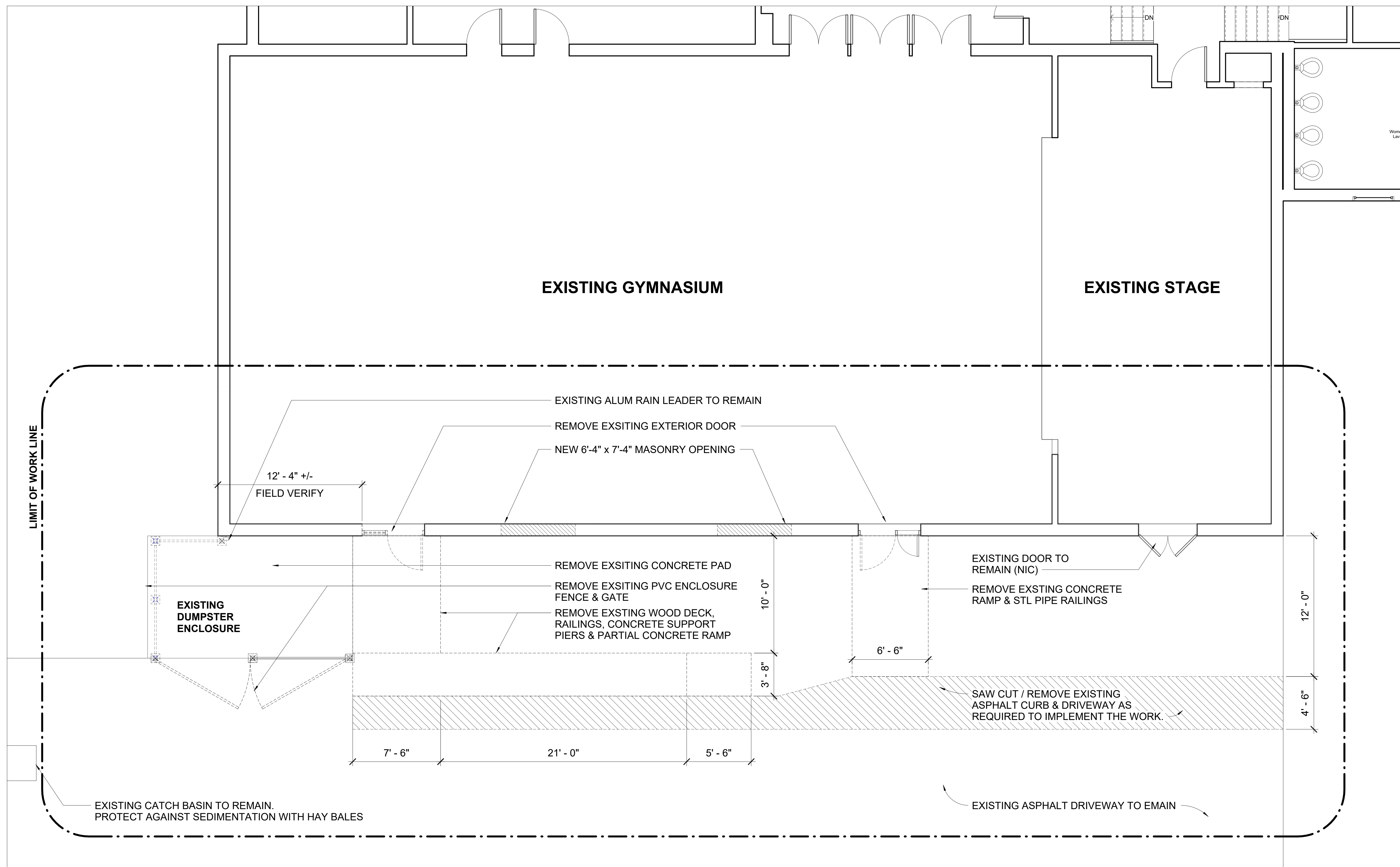
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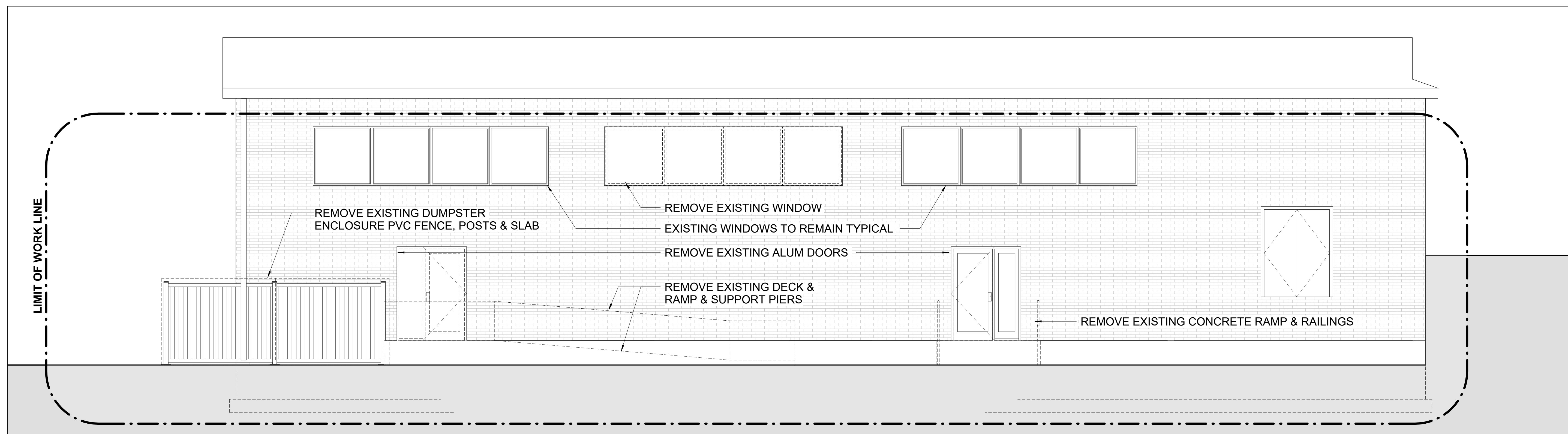
A001

Drawing Number:





1 Gym Addition Demolition Plan  
1/4" = 1'-0"



2 BTH East Elevation Copy 1  
1/4" = 1'-0"

Prepared By: O'Riordan Migan Architects LLC  
22 Bank Street, Seymour, CT 06483 P203.888.7867

Innovative Engineering Services, LLC  
13 North Plains Industrial Road, Wallingford, CT 06495 P203.467.4340

Job: OMA 23251  
Date: 11-06-23  
Scale: 1/4" = 1'-0"  
Drawn: OMA  
Checked: OMA

Revised: ---

Drawing Title: Demolition Plan & Elevation

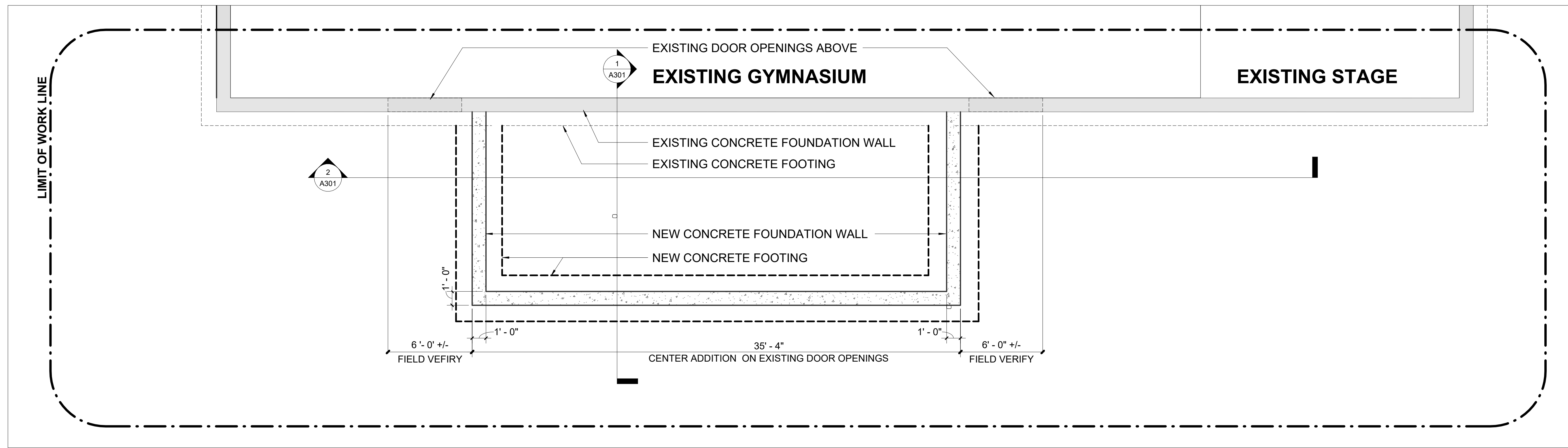
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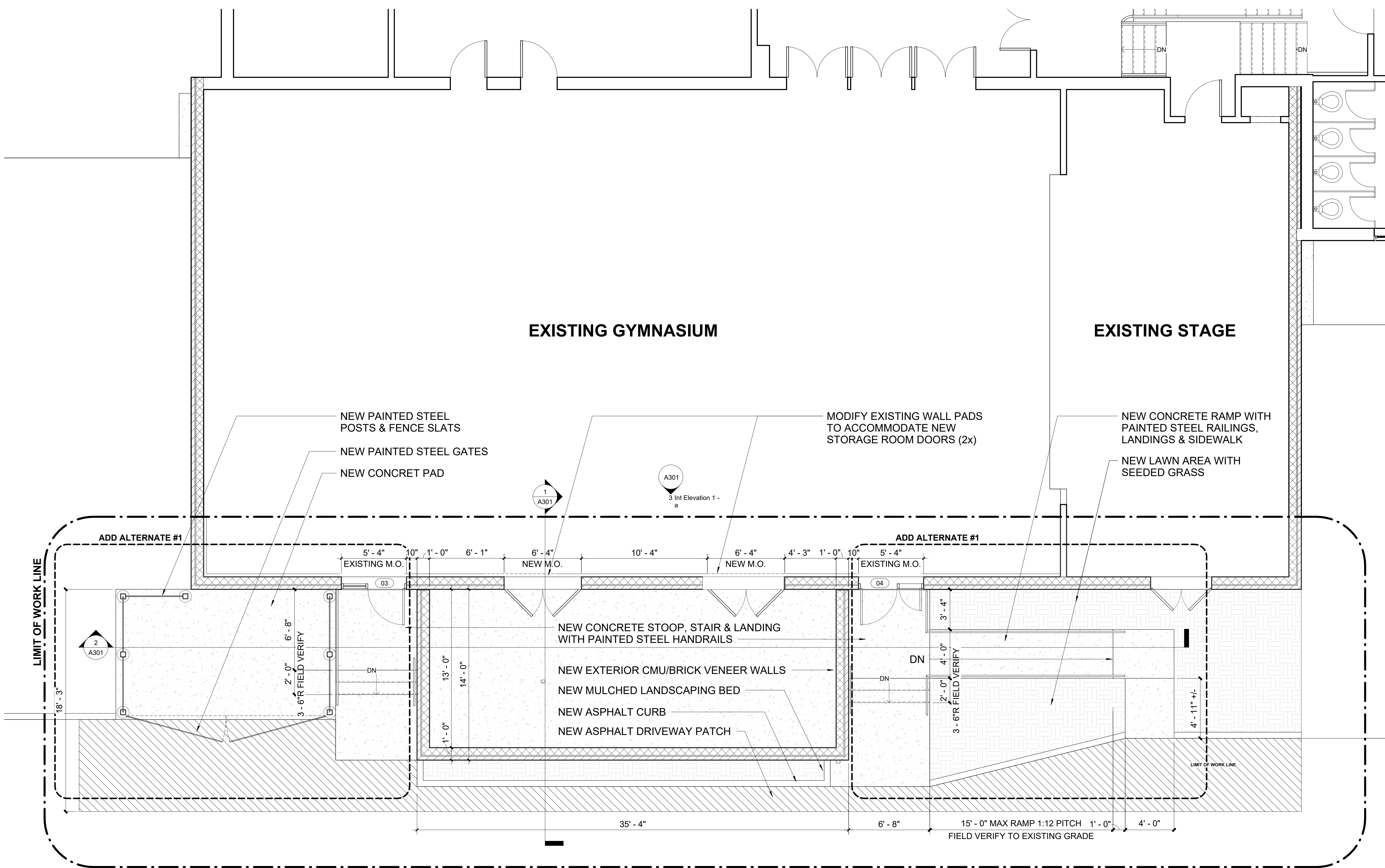
**Demolition Plan & Elevation**

Town of Bethany  
40 Peck Road, Bethany, CT 06524

**AD01**



1 Gym Addition Foundation Plan  
 1/4" = 1'-0"



2 Gym Addition Floor Plan  
 1/4" = 1'-0"

Job: OMA 23251  
 Date: 11-06-23  
 Scale: 1/4" = 1'-0"  
 Drawn: OMA  
 Checked: OMA

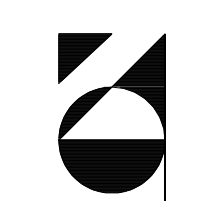
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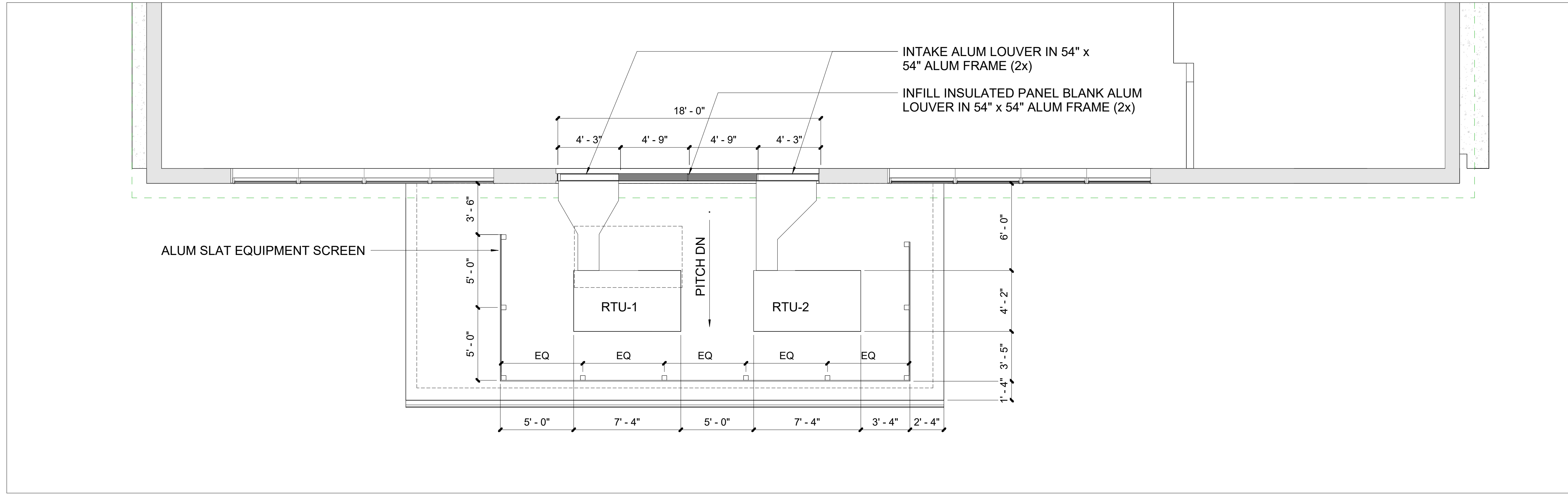
Drawing Number: **A101**

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 13 North Plains Industrial Road, Wallingford, CT 06495 P:203.467.4340

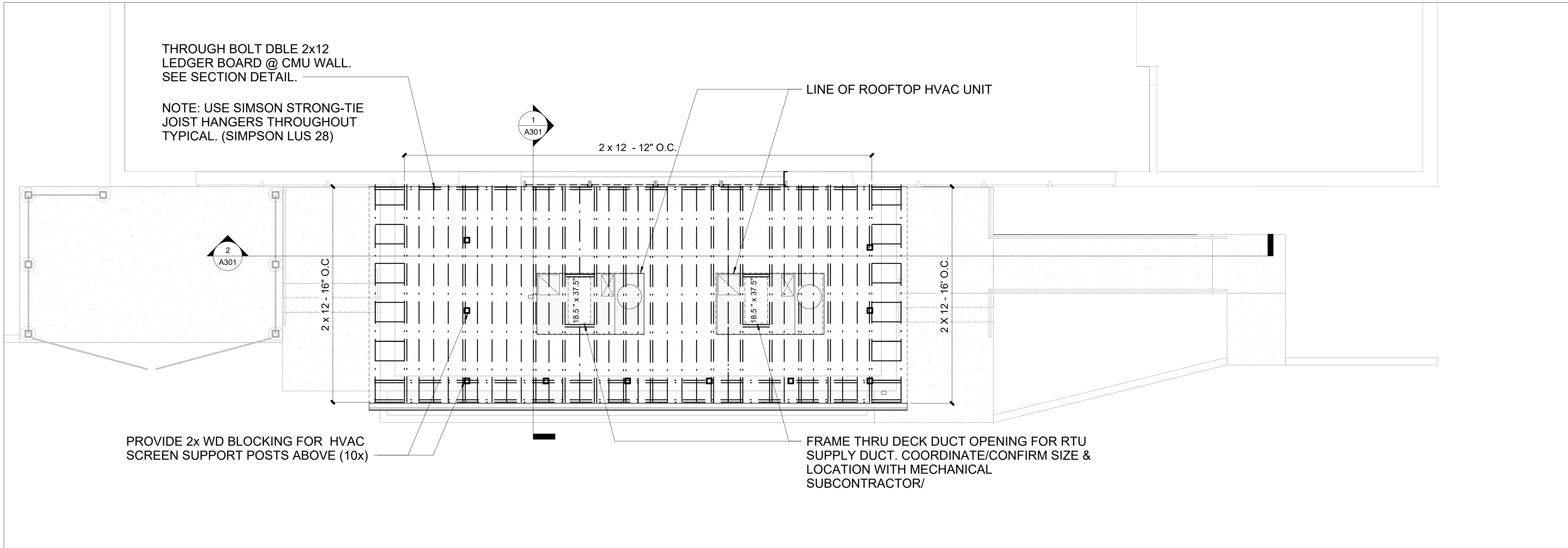
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Town of Bethany  
 40 Peck Road, Bethany, CT 06524





1 Gym Addition Roof Plan  
 1/4" = 1'-0"



2 Gym Addition Roof Framing Plan  
 1/4" = 1'-0"

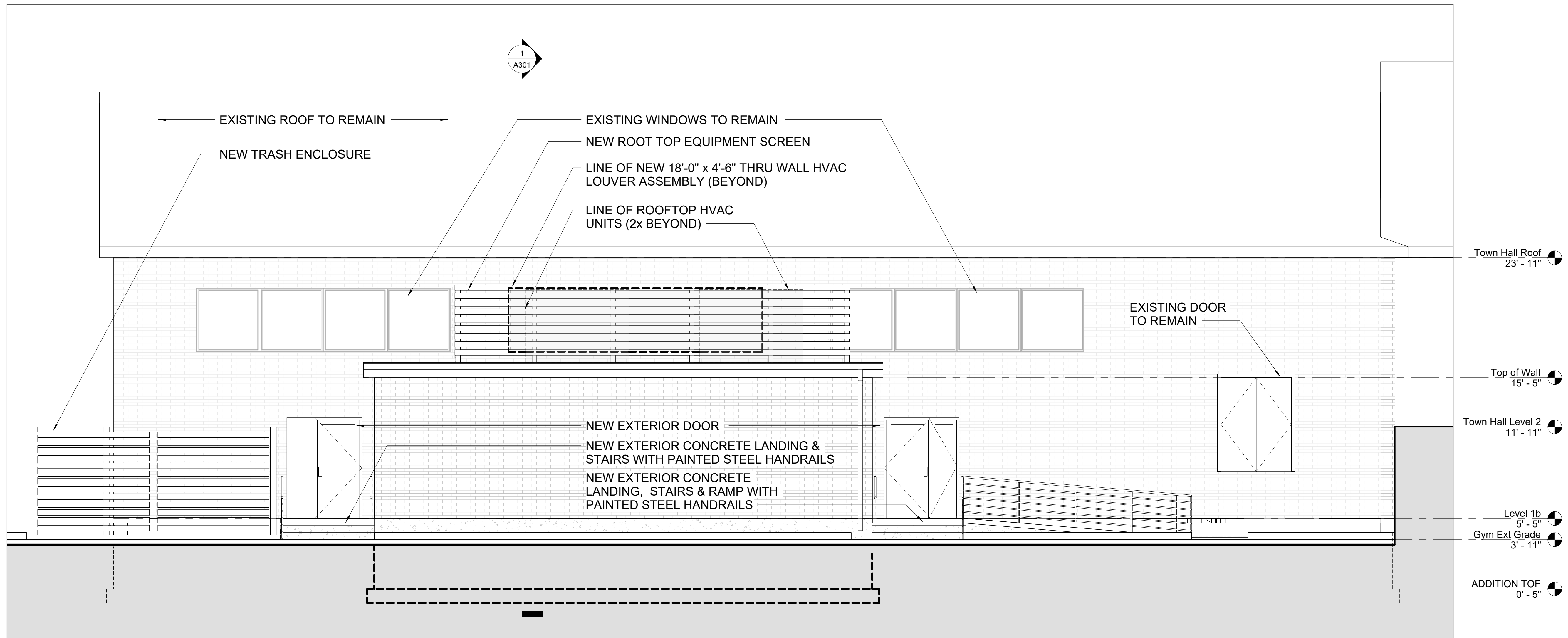
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 Date: 11-06-23  
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 Drawn: OMA  
 Checked: OMA

Drawing Number: A102  
 Drawing Title: Gym Addition Roof & Roof Framing Plan  
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 North Arrow: \_\_\_\_\_  
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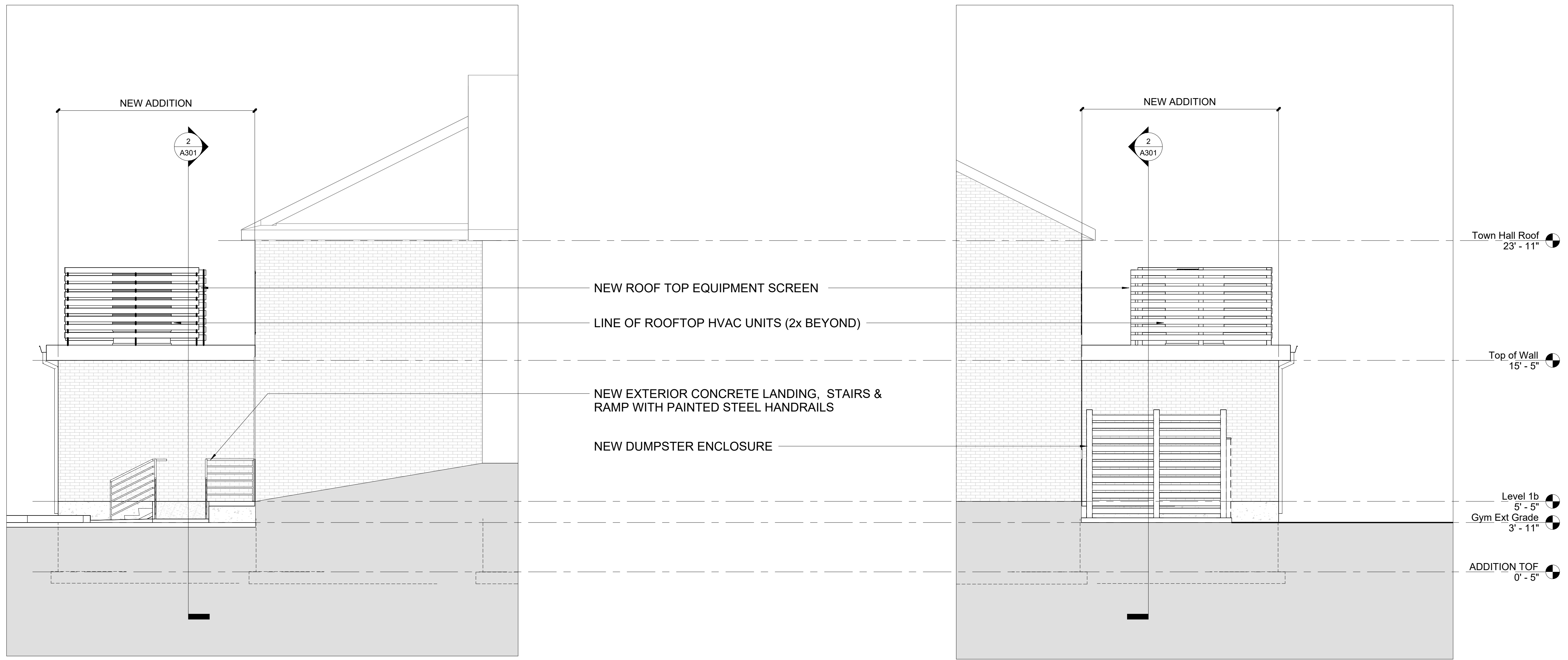
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Town of Bethany  
 40 Peck Road, Bethany, CT 06524





1 BTH East Elevation Copy 1 Copy 1  
1/4" = 1'-0"



2 BTH North Elevation Copy 1  
1/4" = 1'-0"

3 BTH South Elevation Copy 1  
1/4" = 1'-0"

Prepared By: **O'Riordan Migan Architects LLC**  
 22 Bank Street, Seymour, CT 06483 P203.888.7667  
**Innovative Engineering Services, LLC**  
 33 North Plains Industrial Road, Wallingford, CT 06495 P203.467.4340

Job: OMA 23251  
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 Scale: 1/4" = 1'-0"  
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Revised: ---

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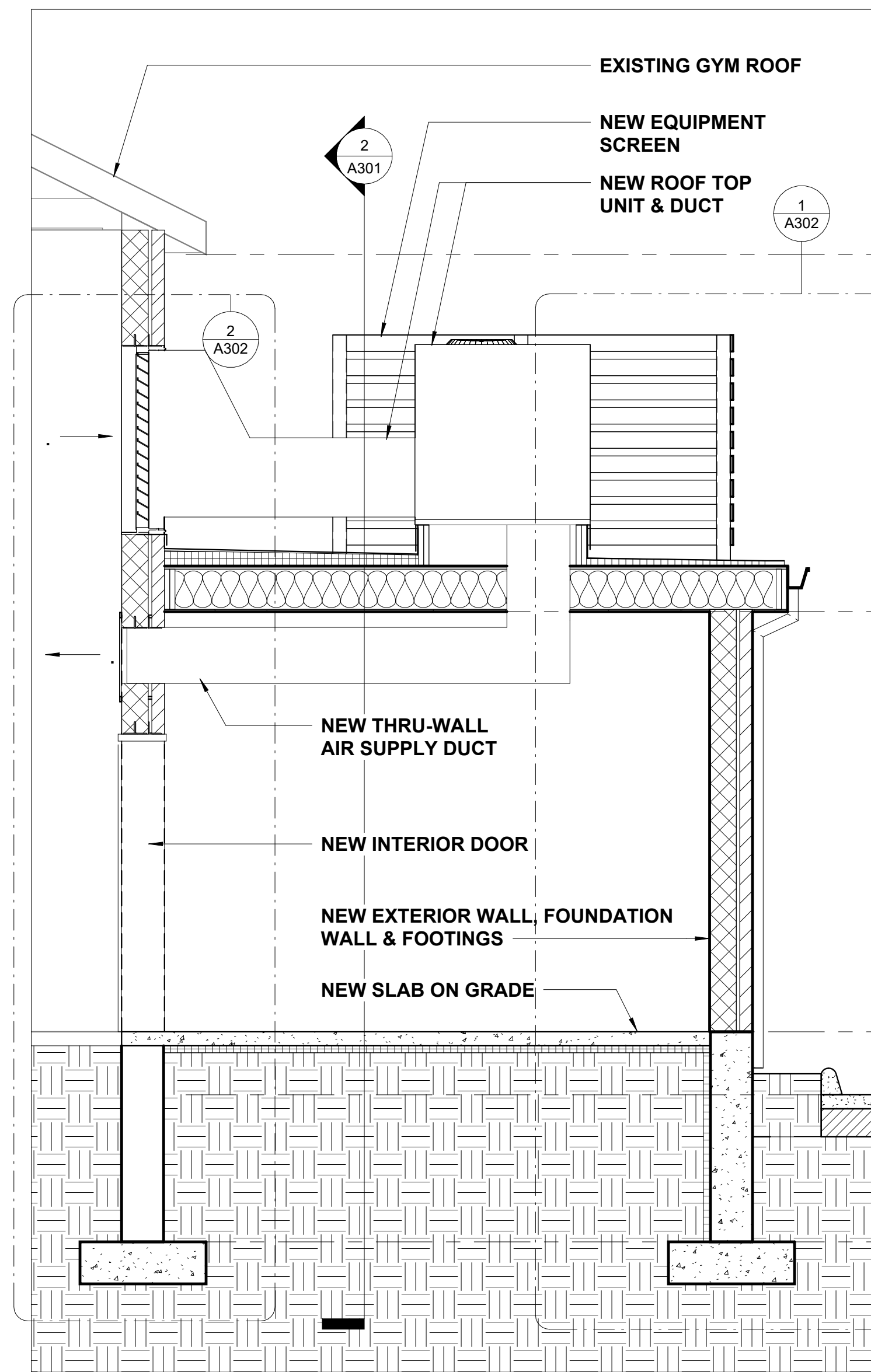
**Gym Addition Exterior Elevations**

Town of Bethany  
 40 Peck Road, Bethany, CT 06524

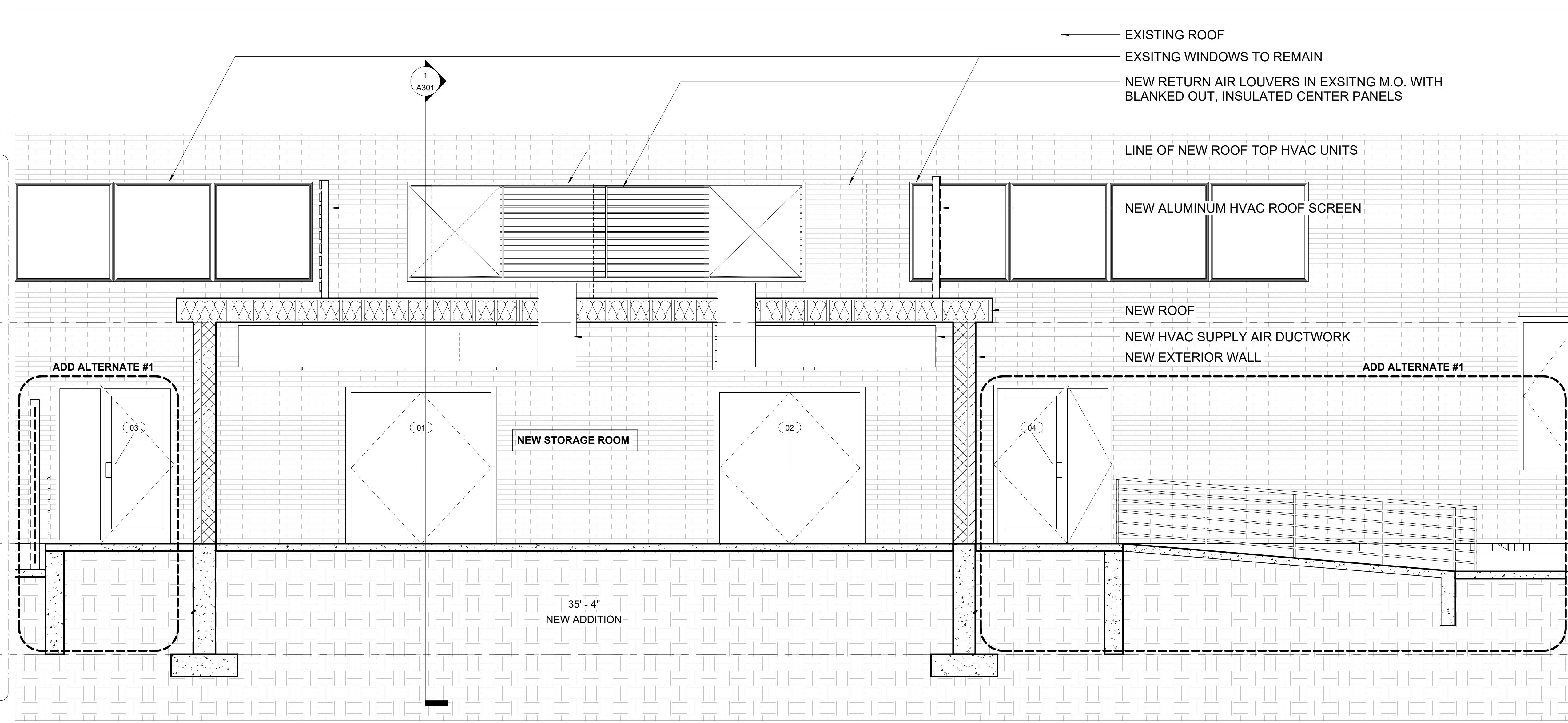
**A201**





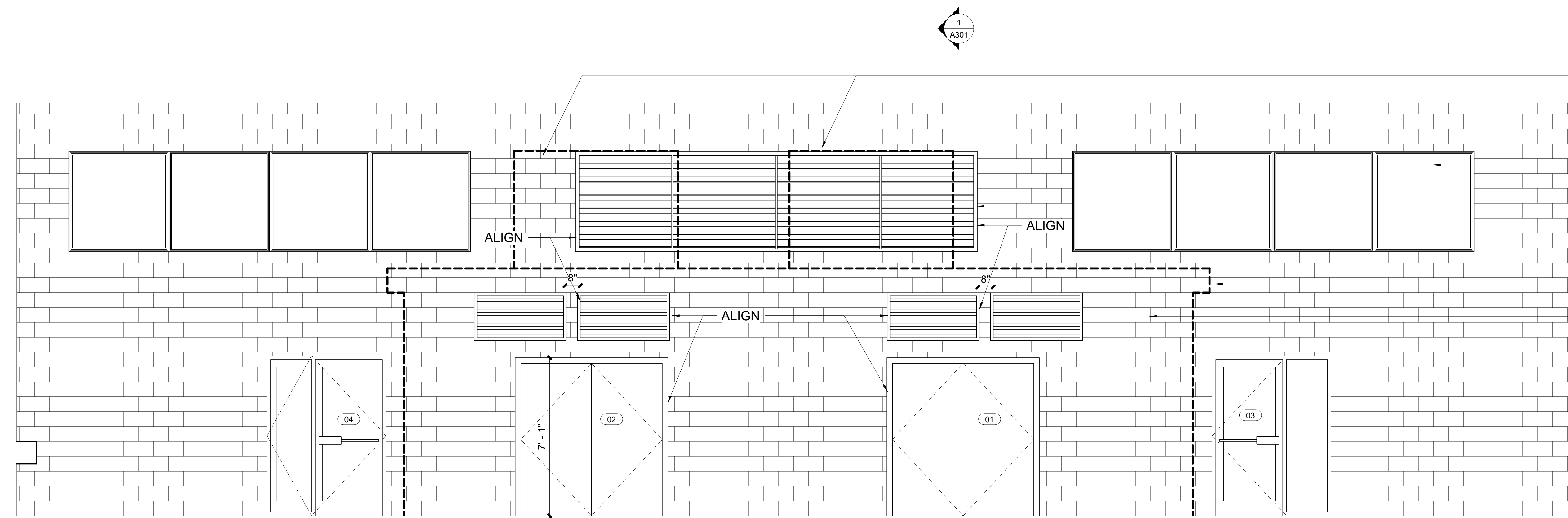


1 Section 1  
3/8" = 1'-0"



2 Section 2  
3/8" = 1'-0"

- Town Hall Roof  
23' - 11"
- Top of Wall  
15' - 5"
- Level 1b  
5' - 5"
- Gym Ext Grade  
3' - 11"
- ADDITION TOP  
0' - 5"



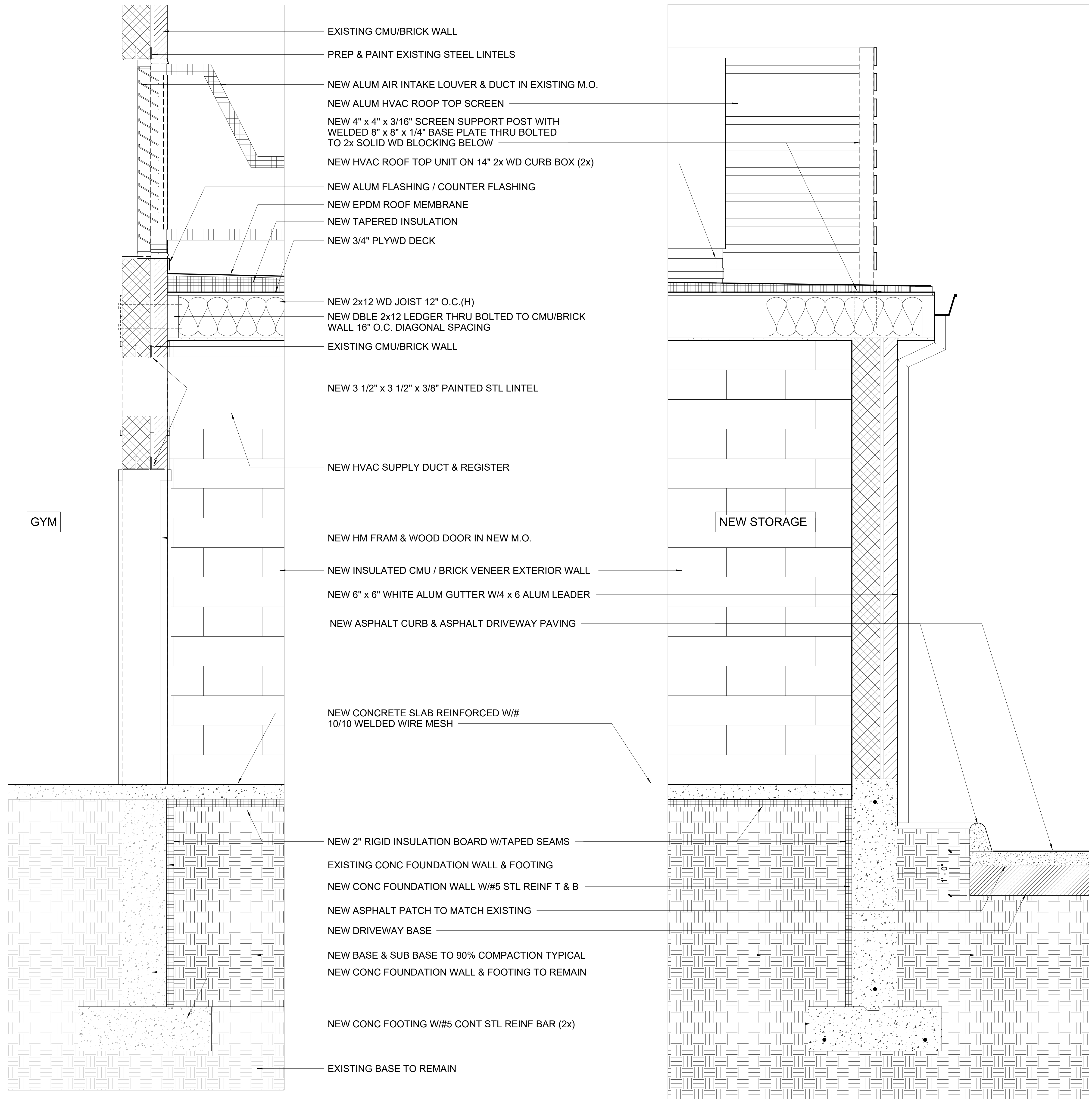
3 Int Elevation 1 - a  
3/8" = 1'-0"

- LINE OF NEW HVAC ROOF TOP UNITS BEYOND (2x)
- EXISTING CMU WALL
- EXISTING ALUM WINDOW TO REMAIN (2x)
- EXISTING ALUM FOUR PANEL AIR INTAKE LOUVER IN EXISTING M.O. BLANK OUT AND INSULATE TWO CENTER PANELS.
- LINE OF NEW STORAGE ROOM ADDITION BEYOND
- NEW ALUM AIR SUPPLY REGISTER (2x) IN NEW 16" x 120" M.O.

Prepared By: **O'Riordan Mignani Architects LLC**  
 22 Bank Street, Seymour, CT 06443 P:203.888.7867  
**Innovative Engineering Services, LLC**  
 13 North Plains Industrial Road, Wallingford, CT 06495 P:203.467.4340

**Sections & Details**  
 Town of Bethany  
 40 Peck Road, Bethany, CT 06524

Drawing Number: **A301**  
 Job: OMA 23251  
 Date: 11-06-23  
 Scale: 3/8" = 1'-0"  
 Drawn: OMA  
 Checked: OMA  
 Revised: ---

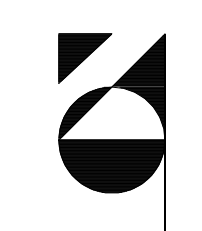


- EXISTING CMU/BRICK WALL
- PREP & PAINT EXISTING STEEL LINTELS
- NEW ALUM AIR INTAKE LOUVER & DUCT IN EXISTING M.O.
- NEW ALUM HVAC ROOF TOP SCREEN
- NEW 4" x 4" x 3/16" SCREEN SUPPORT POST WITH WELDED 8" x 8" x 1/4" BASE PLATE THRU BOLTED TO 2x SOLID WD BLOCKING BELOW
- NEW HVAC ROOF TOP UNIT ON 14" 2x WD CURB BOX (2x)
- NEW ALUM FLASHING / COUNTER FLASHING
- NEW EPDM ROOF MEMBRANE
- NEW TAPERED INSULATION
- NEW 3/4" PLYWD DECK
- NEW 2x12 WD JOIST 12" O.C.(H)
- NEW DBLE 2x12 LEDGER THRU BOLTED TO CMU/BRICK WALL 16" O.C. DIAGONAL SPACING
- EXISTING CMU/BRICK WALL
- NEW 3 1/2" x 3 1/2" x 3/8" PAINTED STL LINTEL
- NEW HVAC SUPPLY DUCT & REGISTER
- NEW HM FRAM & WOOD DOOR IN NEW M.O.
- NEW INSULATED CMU / BRICK VENEER EXTERIOR WALL
- NEW 6" x 6" WHITE ALUM GUTTER W/4 x 6 ALUM LEADER
- NEW ASPHALT CURB & ASPHALT DRIVEWAY PAVING
- NEW CONCRETE SLAB REINFORCED W/# 10/10 WELDED WIRE MESH
- NEW 2" RIGID INSULATION BOARD W/TAPED SEAMS
- EXISTING CONC FOUNDATION WALL & FOOTING
- NEW CONC FOUNDATION WALL W/#5 STL REINF T & B
- NEW ASPHALT PATCH TO MATCH EXISTING
- NEW DRIVEWAY BASE
- NEW BASE & SUB BASE TO 90% COMPACTION TYPICAL
- NEW CONC FOUNDATION WALL & FOOTING TO REMAIN
- NEW CONC FOOTING W/#5 CONT STL REINF BAR (2x)
- EXISTING BASE TO REMAIN

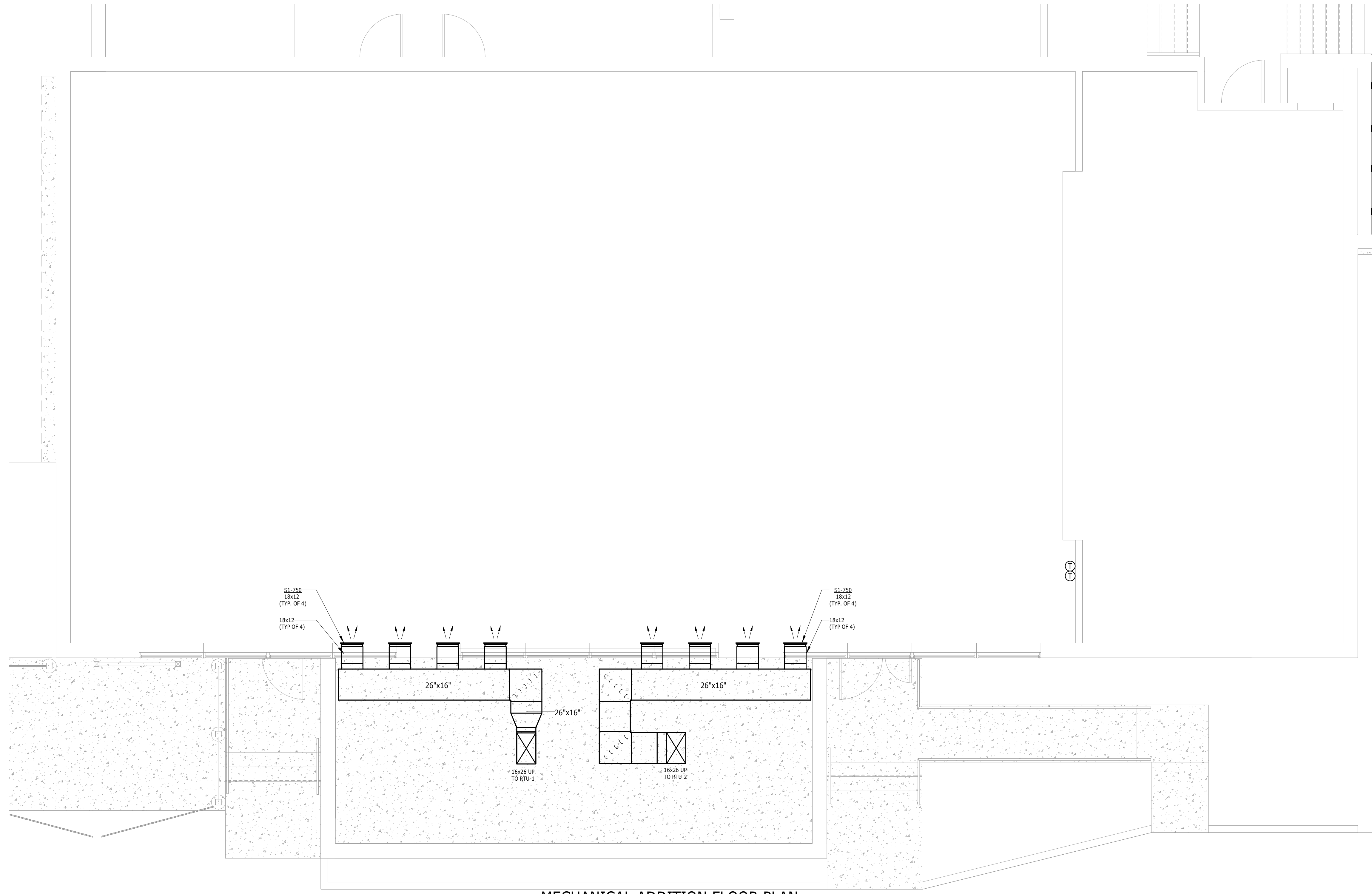
② Detail 1  
1" = 1'-0"

① Detail 0  
1" = 1'-0"

Drawing Number: \_\_\_\_\_  
 Job: OMA 23251  
 Date: 11-06-23  
 Scale: 1" = 1'-0"  
 Drawn: OMA  
 Checked: OMA  
 Revised: ---  
 North Arrow: \_\_\_\_\_  
 Stamp: \_\_\_\_\_  
 Drawing Title: **Building Details**  
 Prepared By: O'Riordan Mignani Architects LLC  
 22 Bank Street, Seymour, CT 06483 P:203.888.7687  
 Innovative Engineering Services, LLC  
 33 North Plains Industrial Road, Wallingford, CT 06491 P:203.467.4340  
 Town of Bethany  
 40 Peck Road, Bethany, CT 06524  
**A302**

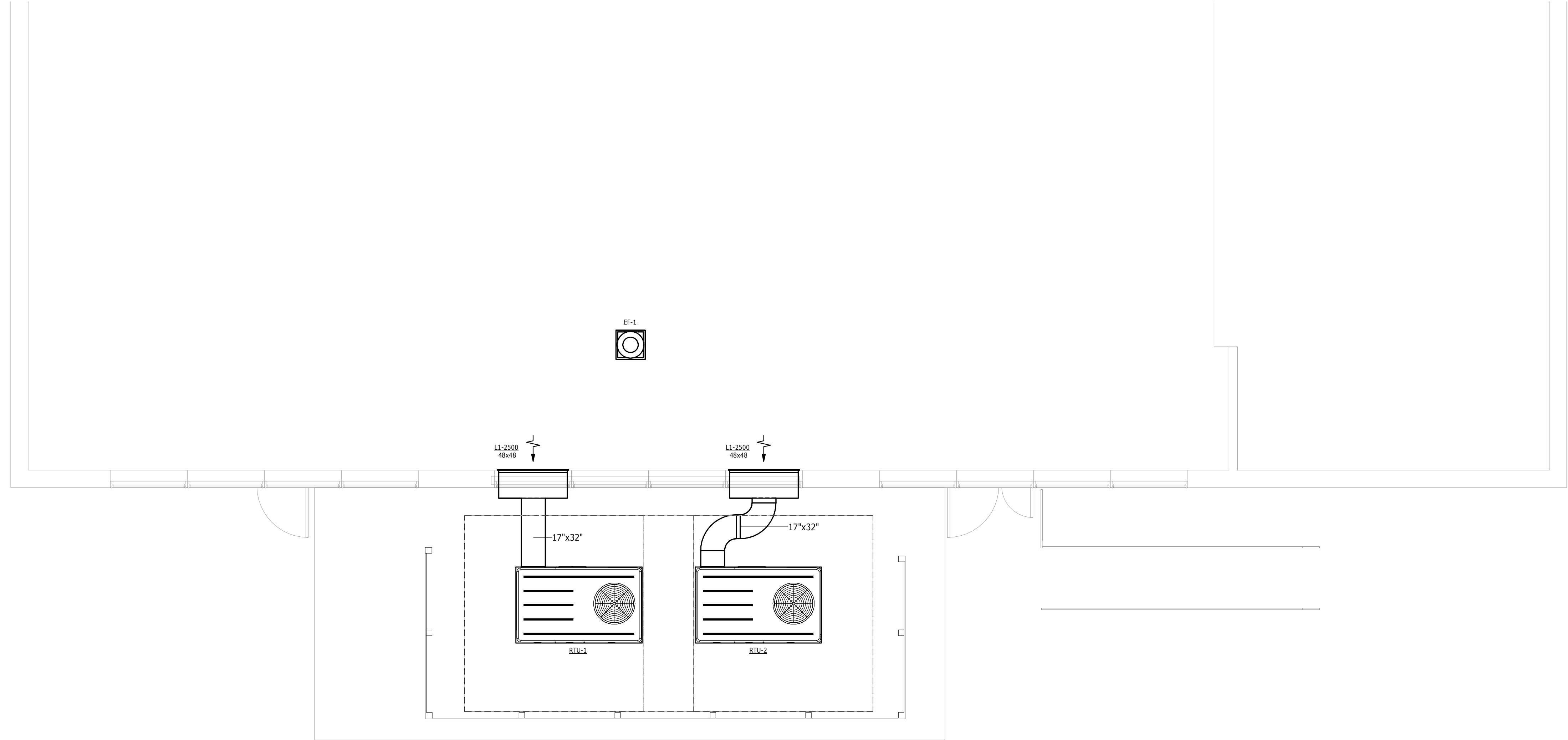






**MECHANICAL ADDITION FLOOR PLAN**

Scale: 1/4" = 1'-0"



**MECHANICAL ROOF PLAN**

Scale: 1/4" = 1'-0"

Job: OMA 23251 Date: 11-3-23 Drawing Number: M101

Scale: 1/4" = 1'-0" Drawn: IES

Revised: \* Checked: PJP

**GYM ADDITION MECHANICAL PLANS**

Prepared By:  
 O'Riordan Migani Architects LLC  
 22 Bank Street, Seymour, CT 06483 P202.888.7667  
 Innovative Engineering Services, LLC  
 13 North Plains Industrial Road, Wallingford, CT 06495 P203.467.4340

Town of Bethany  
 Town of Bethany, CT 06524



PACKAGED ROOFTOP UNIT SCHEDULE																										
GENERAL DATA				DX COIL DATA								GAS HEATING					FILTER DATA				ELECTRICAL DATA		NOTES			
SYMBOL	MANUFACTURER MODEL NUMBER	AREA SERVED	LOCATION	COOLING (CFM)	HEATING (CFM)	ESP (IN. H <sub>2</sub> O)	NOMINAL COOLING (TONS)	TOTAL COOLING (MBH)	SENSIBLE COOLING (MBH)	EAT DB/WB (DEG F)	LAT DB/WB (DEG F)	SUCTION TEMP (DEG F)	FACE VELOCITY (FPM)	TOTAL HEAT INPUT (MBH)	TOTAL HEAT OUTPUT (MBH)	AFLUE %	HEATING SOURCE	GAS PRESSURE (IN. H <sub>2</sub> O)	FILTER TYPE	EFFICIENCY	BHP	VOLT		PHASE	MINIMUM CIRCUIT AMPACITY	MOCP
RTU-1	TRANE DHC092H3RHA	GYM	ADDITION ROOF	3,000	3,000	1.5	7.5	91.9	70.4	80/67	56.39/56.33	45	500	200	162	81%	PROPANE	7"	2" PLEATED MERV 13	30%	1.40	208	3	114 A	125 A	1,2,3,4,5
RTU-2	TRANE DHC092H3RHA	GYM	ADDITION ROOF	3,000	3,000	1.5	7.5	91.9	70.4	80/67	56.39/56.33	45	500	200	162	81%	PROPANE	7"	2" PLEATED MERV 13	30%	1.40	208	3	114 A	125 A	1,2,3,5

NOTES:  
1. PROVIDE NEMA 3R DISCONNECT SWITCH.  
2. PROVIDE DUCT SMOKE DETECTOR IN SUPPLY AND RETURN AIRSTREAM.  
3. PROVIDE PROPANE CONVERSION KIT.  
4. PROVIDE 120V CONVENIENCE OUTLET (POWERED BY ELECTRICAL CONTRACTOR).  
5. PROVIDE 14" HIGH FACTORY ROOF CURB.

FAN SCHEDULE														
SYMBOL	MANUFACTURER MODEL NUMBER	LOCATION	SERVING	TYPE	AIR FLOW CFM	ESP IN. WS.	FAN RPM	DRIVE	CONTROL	BHP (W)	HP (W)	ELECTRICAL V-PH-RPM	SONES (LWA)	NOTES
EF-1	LOREN COOK ACED101C17DEC	GYM ROOF	GYM	ROOF DOWNBLAST	500	0.375"	1300	DIRECT	TIMECLOCK	0.18	1/4	120-1-1725	6.9	1,2

NOTES:  
1. PROVIDE FACTORY SLOPED ROOF CURB WITH SELF-ACTING BACKDRAFT DAMPER.  
2. PROVIDE DISCONNECT SWITCH.

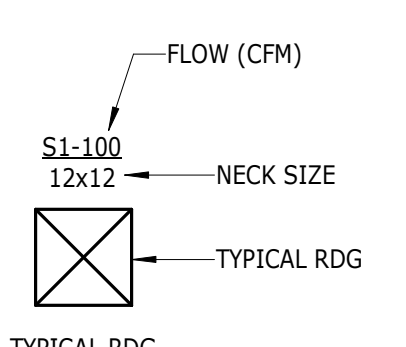
LOUVER SCHEDULE										
SYMBOL	MANUFACTURER MODEL NUMBER	SYSTEM SERVED	AIRFLOW (CFM)	MAXIMUM VELOCITY (FPM)	AIR P.D. (IN. WG)	NOMINAL WIDTH (IN.)	NOMINAL HEIGHT (IN.)	MINIMUM FREE AREA (SQ. FT.)	MAXIMUM WATER PENETRATION (OZ./SQ. FT.)	NOTES
L-1	RUISKIN ELF375DX	EXHAUST	2500	750	0.05"	48"	48"	8.58	0.01 @ 873 FPM	1,2

NOTES:  
1. ALUMINUM CONSTRUCTION, WEATHER RESISTANT, DRAINAGE BLADES.  
2. COLOR/FINISH SHALL BE SELECTED BY ARCHITECT.

GRILLE, DIFFUSER AND REGISTER SCHEDULE								
SYMBOL	MANUFACTURER MODEL NUMBER	DUTY	TYPE	BORDER TYPE	CONSTRUCTION			NOTES
					OBD	FRAME	BLADES	
S1	TTTUS 300RS-HD	SUPPLY	S.W.	-	STEEL	STEEL	STEEL	-

TYPES:  
S.W. - SIDE WALL

NOTES:  
1. SQUARE TO ROUND TRANSITION.  
2. OPPOSED BLADE DAMPER.  
3. DOUBLE DEFLECTION.  
4. FACE VELOCITY 600 FPM MAX.  
5. 40° DEFLECTION (FIXED).  
6. 40° DEFLECTION (FULLY ADJUSTABLE).  
7. NC LEVEL NOT TO EXCEED 25.  
8. INSULATED PLENUM BOOT.  
9. HINGED CORE WITH 1" DISPOSABLE FILTER.



**MECHANICAL GENERAL NOTES**

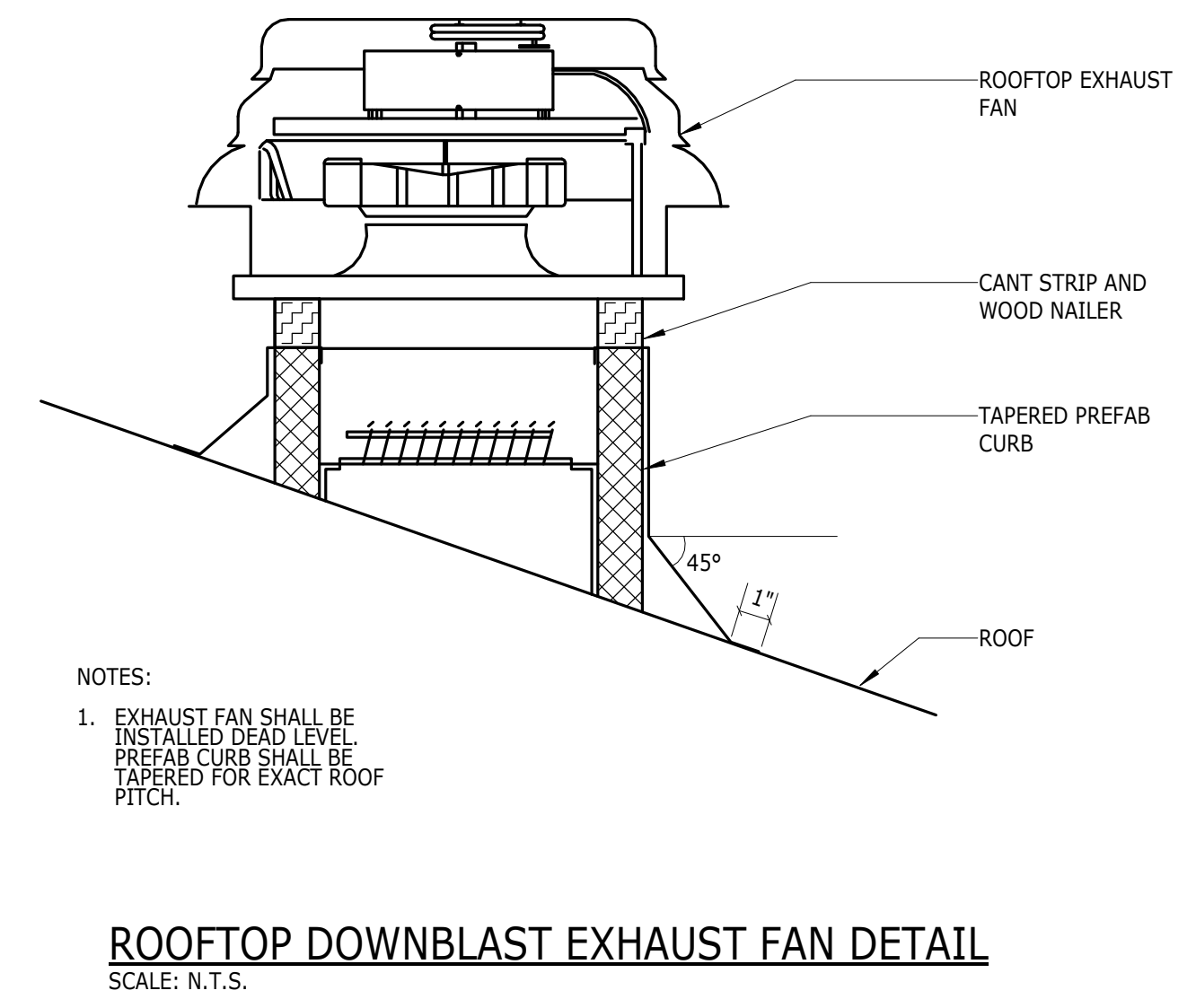
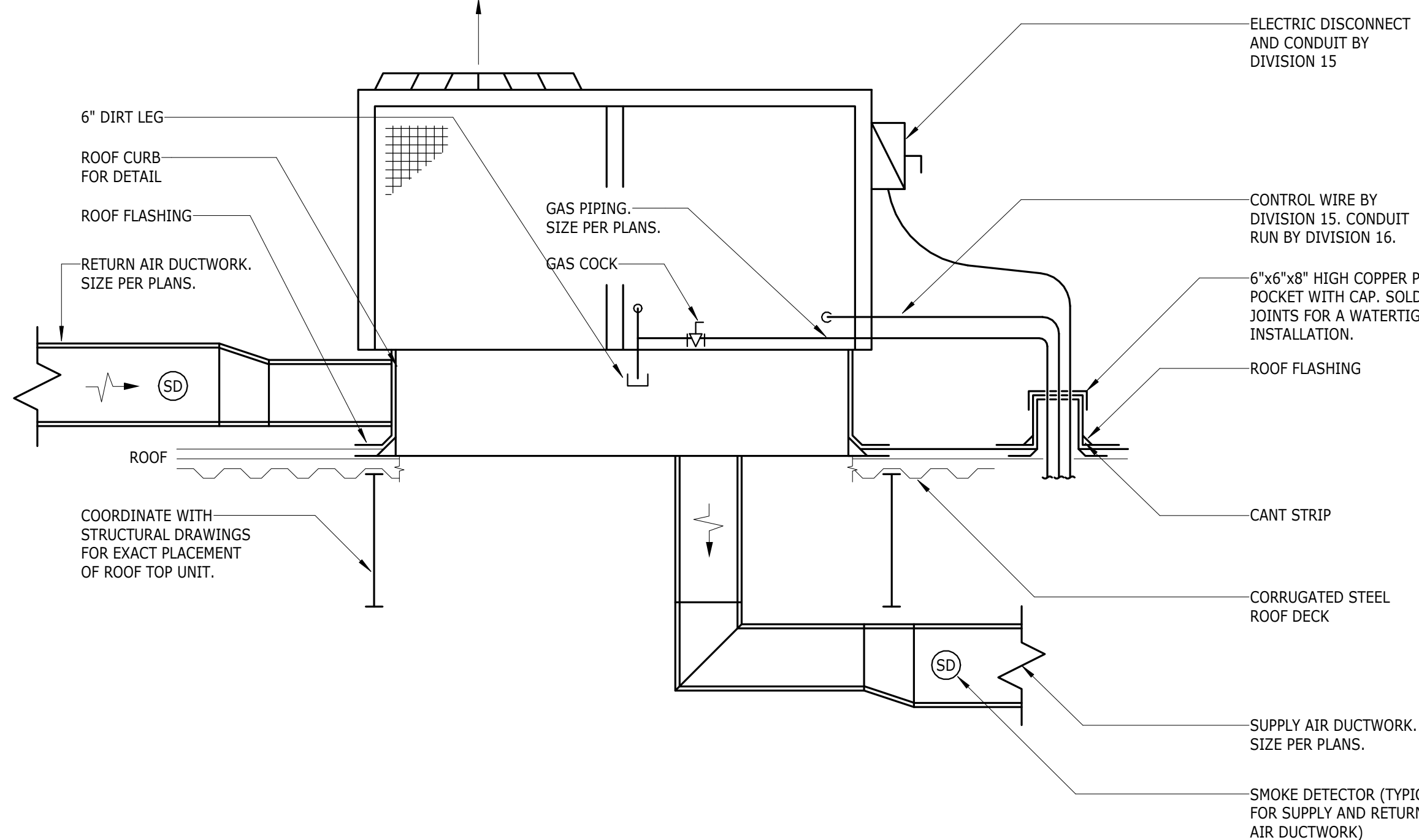
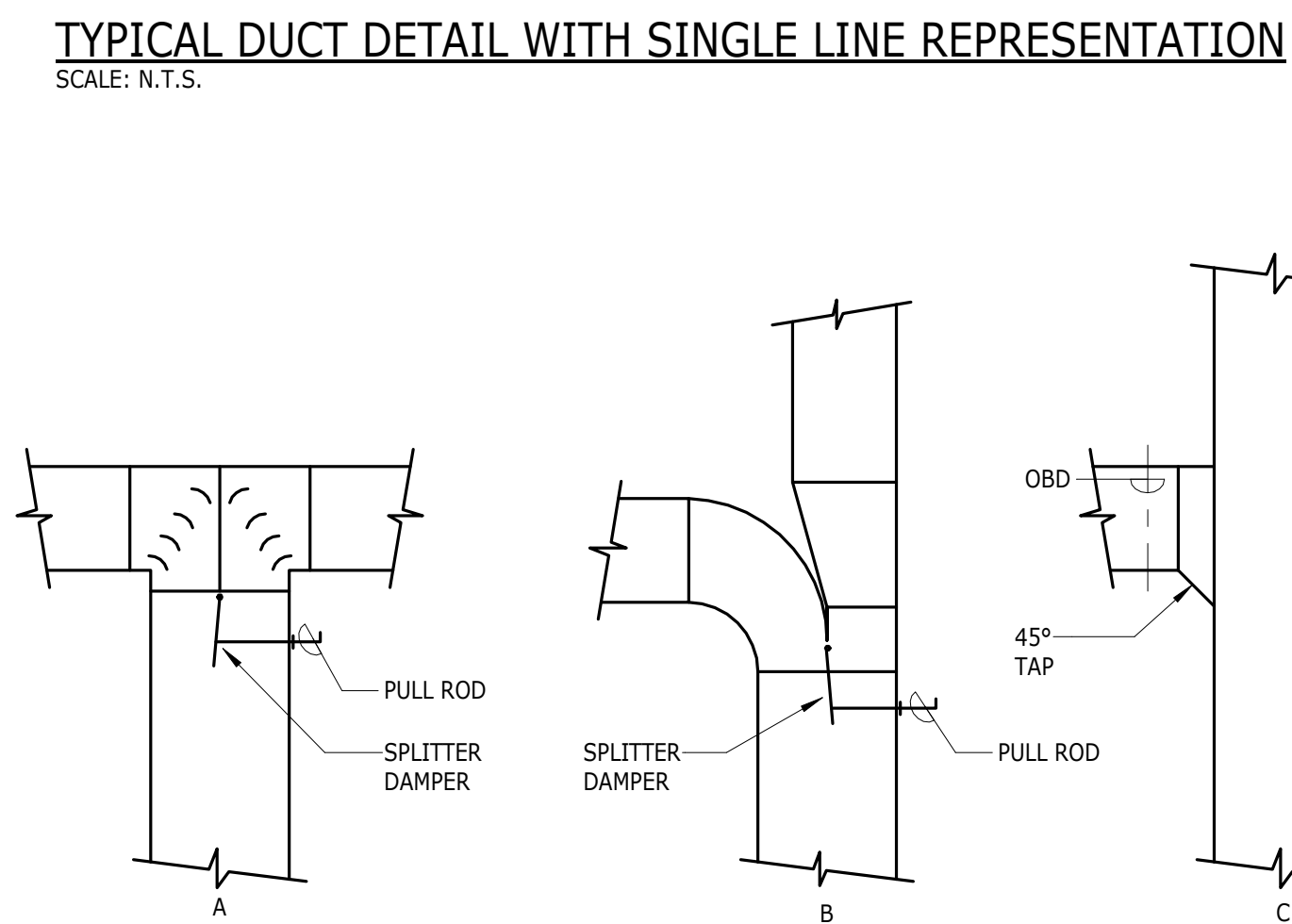
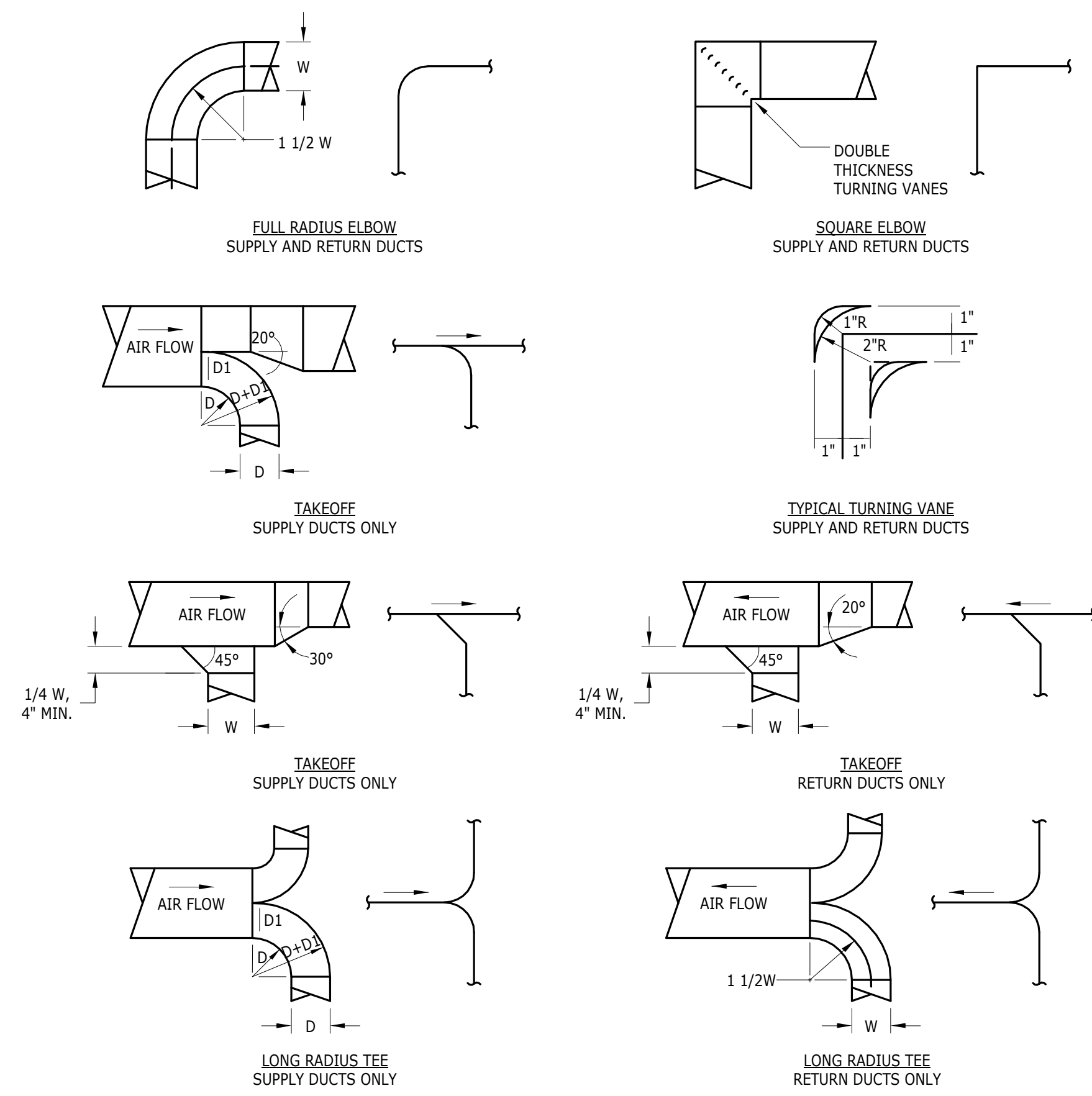
- THESE GENERAL NOTES ARE APPLICABLE TO ALL MECHANICAL DRAWINGS.
- DRAWINGS ARE DIAGNOSTIC AND SHOW GENERAL INTENT OF WORK. SEE DETAILS, SCHEDULES AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- MECHANICAL CONTRACTOR MUST REVIEW DRAWINGS OF THE OTHER TRADES AS PART OF THIS CONTRACT FOR ADDITIONAL WORK REQUIRED AND OR COORDINATION OF HIS WORK FOR OPERATIONS OR CONNECTIONS TO OTHER SYSTEMS.

**ABBREVIATIONS**

AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
AMB	AMBIENT
AMP	AMPERE (AMP, AMPS)
BAL	BALANCE
BTU	BRITISH THERMAL UNIT
CFM	CAPACITY
CFM	CUBIC FEET PER MINUTE
CHWS	CHILLED WATER SUPPLY
CHWR	CHILLED WATER RETURN
CLG	COOLING
CU	CONDENSING UNIT
EAT	ENTERING AIR TEMPERATURE
EF	EXHAUST FAN
ESP	EXTERNAL STATIC PRESSURE
ET	EXPANSION TANK
EWT	ENTERING WATER TEMPERATURE
EXH	EXHAUST
°F	DEGREES FAHRENHEIT
FC	FLEXIBLE CONNECTION
FD	FIRE DAMPER
FPM	FEET PER MINUTE
FT	FEET
FTR	FIN TUBE RADIATION
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
H-I	HUMIDIFIER
HWC	HOT WATER COIL
HP	HORSE POWER
HTR	HEATING RETURN (HOT WATER)
HTS	HEATING SUPPLY (HOT WATER)
HTG	HEATING
Hz	FREQUENCY
IN.	INCH
IN. WG	INCHES WATER GAUGE
LAT	LEAVING AIR TEMPERATURE
LBS	POUNDS
LBS/HR	POUNDS PER HOUR
LWT	LEAVING WATER TEMPERATURE
MBH	BTU PER HOUR (THOUSAND)
N.T.S.	NOT TO SCALE
O.A.	OUTSIDE AIR
OED	OPEN END DUCT
P-1	PUMP
PD	PRESSURE DROP
PH	PHASE
PSI	POUNDS PER SQUARE INCH
RDG	REGISTER DIFFUSER GRILLE
RET	RETURN
RET	RELATIVE HUMIDITY
RPM	ROTATIONS PER MINUTE
SP-1	SUMP PUMP
SQ. FT.	SQUARE FEET
SUP	SUPPLY
T&P	TEMPERATURE & PRESSURE RELIEF VALVE
TYP	TYPICAL
UH	UNIT HEATER
UON	UNLESS OTHERWISE NOTED
VD	VOLUME DAMPER
VIF	VERIFY IN FIELD
WB	WET BULB
WP	WORKING PRESSURE
ZC	ZONE CONTROLLER
ZV	ZONE VALVE

**MECHANICAL LEGEND**

	DIFFUSER/GRILLE - SUPPLY
	GRILLE/REGISTER - RETURN
	GRILLE/REGISTER - EXHAUST
	ROUND DUCT UP
	ROUND DUCT DN
	SIDEWALL GRILLE/REGISTER - SUPPLY/RETURN/EXHAUST
	AIR FLOW DIRECTION INDICATOR - SUPPLY
	AIR FLOW DIRECTION INDICATOR - RETURN
	DUCT RISER - SUPPLY/COMBUSTION AIR
	DUCT DROP - SUPPLY/COMBUSTION AIR
	DUCT RISER - RETURN/EXHAUST
	DUCT DROP - RETURN/EXHAUST
	THERMOSTAT
	VOLUME DAMPER
	MOTORIZED DAMPER
	REDUCER
	HOT WATER SUPPLY - HEATING
	HOT WATER RETURN - HEATING
	CHILLED WATER SUPPLY
	CHILLED WATER RETURN
	CONDENSATE WASTE
	GAS (NATURAL OR LPG)
	DIRECTION OF FLOW
	PIPE DOWN
	PIPE DROP
	PIPE RISE
	PLUGGED OR CAPPED PIPE
	STRAINER - Y TYPE
	UNION
	BALANCING VALVE
	BALL VALVE
	CHECK VALVE
	GAS VALVE (BALL OR PLUG)
	GAS PRESSURE REGULATOR



Job: OMA 23251  
Date: 11-3-23  
Scale: N.T.S.  
Drawn: IES  
Checked: PJP

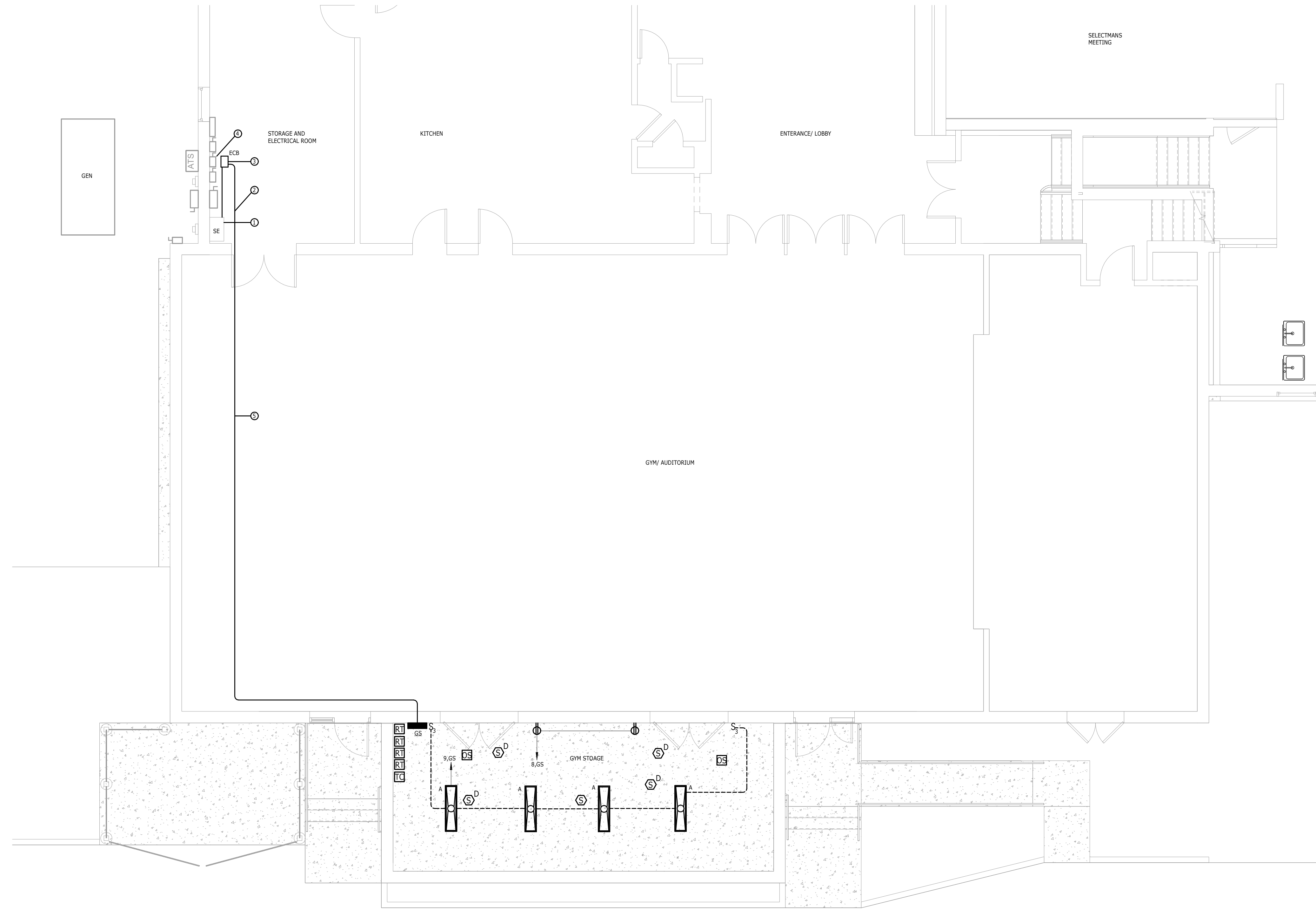
Prepared By: O'Riordan Migan Architects LLC  
22 Bank Street, Seymour, CT 06483 732.888.7867  
Innovative Engineering Services, LLC  
13 North Plains Industrial Road, Wallingford, CT 06495 732.467.4340

**GYM ADDITION MECHANICAL NOTES, LEGENDS, AND SCHEDULES**  
Town of Bethany  
Town of Bethany, CT 06524

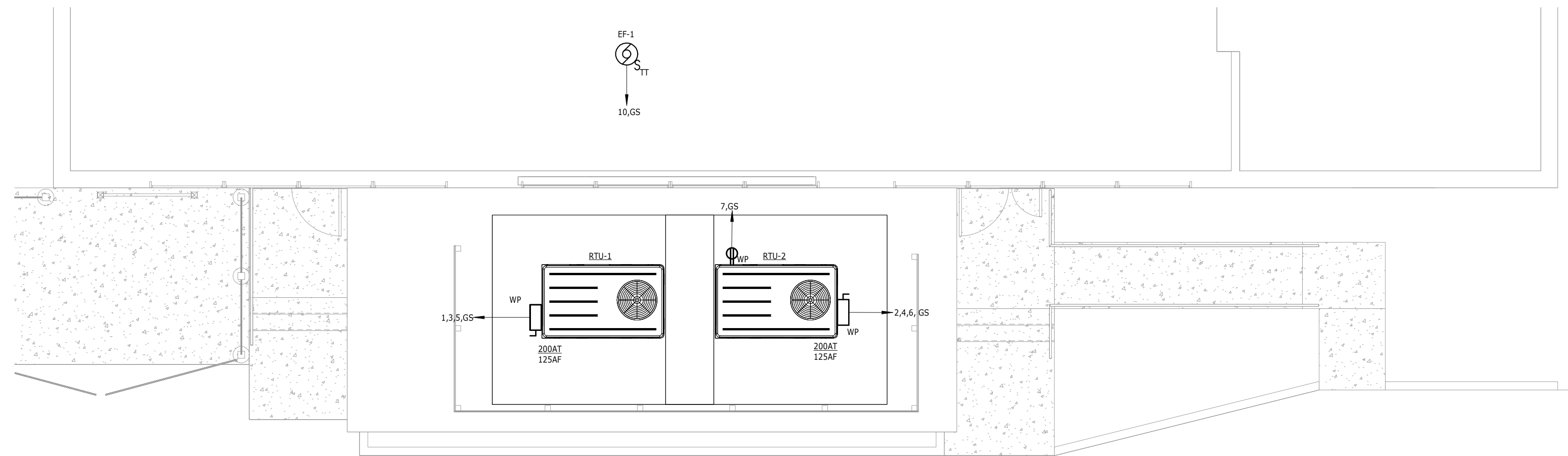
Drawing Number: M200







**ELECTRICAL ADDITION FLOOR PLAN**  
Scale: 3/16" = 1'-0"



**ELECTRICAL ROOF PLAN**  
Scale: 3/16" = 1'-0"

- | DRAWING NOTES |  |
|---------------|--|
| ①             | EXISTING 208Y/120V, 3 PHASE, 4 WIRE 400A SERVICE ENTRANCE CABINET.                       |
| ②             | 3 1/2" C, 4# 350 KCMIL, 1#4G.  |
| ③             | NEW 3P 300A ENCLOSED C.B.  |
| ④             | EXISTING ABANDONED METER SOCKET ENCLOSURE, JUNCTION BOX, CONDUIT & WIRING TO BE POWERED. |
| ⑤             | 3 1/2" C, 4#350 KCMIL, #4G, ROUTE IN ATTIC SPACE, EXACT ROUTING TO BE FIELD VERIFIED.    |

Drawing Number: <b>E101</b>	Job: OMA 23251 Scale: As indicated Drawn: IES Checked: PJP	Date: 11-3-23 Revised: *	North Arrow: 	Stamp: 	Drawing Title: <b>GYM ADDITION ELECTRICAL PLANS</b> Town of Bethany Town of Bethany, CT 06524	Prepared By: O'Riordan Migani Architects LLC 22 Bank Street, Seymour, CT 06483 P202.888.7667 Innovative Engineering Services, LLC 13 North Plains Industrial Road, Wallingford, CT 06495 P203.467.4340	
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CKT. NO.	CKT. BKR.		DESCRIPTION	WIRE & CONDUIT	KVA	A			KVA	WIRE & CONDUIT	DESCRIPTION	CKT. BKR.		CKT. NO.
	TRIP AMPS	POLES				A	B	C				POLES	TRIP AMPS	
1	125	3	RTU-1	2" C, 4#1 #6G	13.7	27.4			13.7	2" C, 4#1 #6G	RTU-2	3	125	2
3	-	-		-	13.7			27.4	13.7	-	-	-	-	4
5	-	-		-	13.7			27.4	13.7	-	-	-	-	6
7	20	1	RECEPTACLE (ROOF)	3/4" C, 2#12, #12G	0.2	0.6			0.4	3/4" C, 2#12, #12G	RECEPTACLE (STORAGE)	1	20	8
9	20	1	LIGHTING (STORAGE)	3/4" C, 2#12, #12G	0.2		0.4		0.2	3/4" C, 2#12, #12G	EF-1 (ROOF)	1	20	10
11	20	1	SPARE	-	0.0			0.0	0.0	-	SPARE	1	20	12
13	20	1	SPARE	-	0.0	0.0			0.0	-	SPARE	1	20	14
15	20	1	SPARE	-	0.0		0.0		0.0	-	SPARE	1	20	16
17	20	1	SPARE	-	0.0			0.0	0.0	-	SPACE	1	-	18
19	-	1	SPACE	-	0.0	0.0			0.0	-	SPACE	1	-	20
21	-	1	SPACE	-	0.0		0.0		0.0	-	SPACE	1	-	22
23	-	1	SPACE	-	0.0			0.0	0.0	-	SPACE	1	-	24
TOTALS PER PHASE						28.0	27.8	27.4				1	-	
GRAND TOTAL						83.2								

ELECTRICAL LEGEND	
SYMBOL	DESCRIPTION
S <sub>3</sub>	THREE WAY TOGGLE SWITCH
S <sub>TT</sub>	MANUAL MOTOR STARTER WITH THERMAL OVERLOAD PROTECTION
Φ	DUPLEX RECEPTACLE (TAMPER RESISTANT)
□	EXISTING PANELBOARD/LOAD CENTER
■	208Y/120V PANEL
Ⓜ	REVENUE METER
—	CONDUIT AND WIRE
-----	CONDUIT AND WIRE, SWITCHED
→	HOMERUN TO PANELBOARD, NUMBER/LETTERS INDICATE CIRCUIT AND PANELBOARD TERMINATION UNLESS OTHERWISE NOTED
Ⓜ	MOTOR
OS	OCCUPANCY SENSOR
TC	TIME CLOCK SWITCH
S <sup>D</sup>	FIRE ALARM SMOKE DETECTOR
S <sup>D</sup>	FIRE ALARM DUCT SMOKE DETECTOR
RT	FIRE ALARM REMOTE TEST SWITCH

LIGHT FIXTURE SCHEDULE	
LIGHTING FIXTURE TYPE	
MANUFACTURER .....	LITHONIA LIGHTING
CATALOG NO .....	BLWP4-48L-ADSM-120-EZ1-LP835
FIXTURE DESCRIPTION .....	LOW PROFILE LED WRAPAROUND
VOLTAGE .....	120
LAMP & DESIGNATION .....	40 WATT, 5137 LUMENS, 3500K
DRIVER .....	ELECTRONIC
MOUNTING .....	SURFACE
HOUSING .....	ALUMINUM
LENS/LOUVER .....	VOLUMETRIC
REMARKS .....	-

- ### GENERAL NOTES
- THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WORK REQUIRED FOR A COMPLETE, FULLY OPERABLE INSTALLATION. ALL WORK TO BE DONE IN ACCORDANCE WITH THE LATEST APPROVED ISSUE OF THE NFPA 70, NATIONAL ELECTRIC CODE (NEC) AND APPLICABLE LOCAL CODES.
  - THIS IS AN EXISTING BUILDING. WITH AN EXISTING SERVICE, THE ELECTRICAL CONTRACTOR SHALL VISIT THE SITE PRIOR TO SUBMITTING A BID TO ASCERTAIN FIELD CONDITIONS AS THEY EXIST AND JUDGE THEIR EFFECT ON THE WORK TO BE DONE. NO ALLOWANCE WILL BE MADE FOR FAILURE TO VISIT THE JOB SITE AND MAKE THIS DETERMINATION.
  - THE DRAWINGS SHOW THE GENERAL LAYOUT AND SOME OF THE DETAIL, BUT THEY DO NOT SHOW EVERY FITTING, BEND, ... ETC. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL SUCH MATERIALS TO MAKE A COMPLETE INSTALLATION.
  - DO NOT SCALE DRAWINGS; ACTUAL FIELD MEASUREMENTS AND DIMENSIONS TAKE PRECEDENCE IN ALL CASES.
  - ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE STANDARD GENERAL CONDITIONS OF THE CONSTRUCTION CONTRACT, AIA DOCUMENT 201, LATEST EDITION.
  - ELECTRICAL CONTRACTOR SHALL INSTALL ALL EQUIPMENT IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS AND OR REQUIREMENTS FOR PROPER OPERATION AND MAINTENANCE.
  - ELECTRICAL CONTRACTOR SHALL GIVE OWNER 10 DAYS ADVANCE NOTICE OF SHUTDOWNS. SHUTDOWNS TO BE KEPT TO A MINIMUM. AT NO TIME SHALL THE BUILDING/SPACE BE LEFT WITHOUT COMMERCIAL POWER IN FULL OPERATING ORDER.
  - ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR TESTING OF ALL PHASES OF THE WORK AND TO DEMONSTRATE TO OWNER THAT THE EQUIPMENT IS IN FULL OPERATING ORDER.
  - ELECTRICAL CONTRACTOR SHALL RESTORE ALL AREAS DISTURBED TO THEIR ORIGINAL CONDITION. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ALL CUTTING, PATCHING, PAINTING, CLEAN-UP, ELECTRICAL DEBRIS REMOVAL AND GENERAL COORDINATION OF THE WORK EFFORT AS REQUIRED FOR THE INSTALLATION OF THE ELECTRICAL ITEMS OF WORK.
  - THE TERM "PROVIDE" SHALL MEAN TO FURNISH AND INSTALL IN COMPLETE WORKING ORDER.
  - THE SCOPE OF WORK IS AS SHOWN ON THE PLANS AND DETAILED IN THE SPECIFICATIONS.
  - ALL THE WIRE SIZES ARE BASED ON COPPER, ALUMINUM IS NOT TO BE USED.
  - ALL WIRING METHODS ARE TO BE IN ACCORDANCE WITH THE CURRENT ISSUE OF THE NATIONAL ELECTRICAL CODE, AND APPLICABLE LOCAL CODES. ALL WIRING IS TO BE IN CONDUIT, UNLESS SPECIFICALLY NOTED OTHERWISE. ALL WIRING IS TO BE CONCEALED.
  - PROVIDE INDEPENDENT SEISMIC SUPPORT OF ALL ELECTRICAL EQUIPMENT PER IBC CODE.
  - ELECTRICAL CONTRACTOR SHALL SECURE ALL PERMITS AND PAY FOR ALL REQUIRED FEES, INCLUDING ALL UTILITY FEES.
  - ELECTRICAL CONTRACTOR SHALL WARRANT AND GUARANTEE ALL MATERIALS AND WORKMANSHIP FOR A PERIOD OF ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE BY THE OWNER.
  - ELECTRICAL CONTRACTOR SHALL PROVIDE PROOF OF LIABILITY AND PROPERTY INSURANCE TO THE OWNER, ALL DEDUCTIBLES SHALL BE PAID FOR BY THE ELECTRICAL CONTRACTOR IN THE EVENT OF A CLAIM.
  - PERSONNEL SAFETY IS OF PRIME IMPORTANCE. NO HAZARDOUS CONDITION MUST BE ALLOWED. EVERY CARE MUST BE TAKEN TO PROTECT CONSTRUCTION AND OTHER PERSONNEL. CLEANUP IS TO BE DONE ON A DAILY BASIS. ELECTRICAL CONTRACTOR TO REMOVE AND DISPOSE OF REFUSE FROM SITE.
  - ELECTRICAL CONTRACTOR SHALL PROVIDE SHOP DRAWINGS FOR APPROVAL FOR ALL LIGHTING FIXTURES, PANELS, SWITCHES, RECEPTACLES, ... ETC.
  - ELECTRICAL CONTRACTOR TO VERIFY LIGHTING FIXTURE MOUNTING REQUIREMENTS FOR VARIOUS CEILING TYPES AND ORDER APPROPRIATE HARDWARE.
  - REMOVAL OF EXISTING ELECTRICAL EQUIPMENT, PANELS, SWITCHES, RECEPTACLES, CONDUIT, WIRE TIME CLOCKS, EMERGENCY LIGHTING UNITS, FIXTURES, ... ETC., ARE A PART OF THE SCOPE OF WORK. ALL UNUSED ELECTRICALS SHALL BE REMOVED AS MUCH AS POSSIBLE. THE ELECTRICAL PLANS DO NOT SHOW ALL OF THE ELECTRICAL REMOVAL WORK. PROVIDE TEMPORARY EXTENSION OF SYSTEMS THAT ARE TO BE REPLACED SO THAT CRITICAL SYSTEMS MAY BE KEPT IN PARTIAL OPERATION DURING THE CONSTRUCTION EFFORT.
  - COORDINATE EXACT PLACEMENT OF EQUIPMENT WITH ARCHITECTURAL AND MECHANICAL PLANS, MAKE FIELD ADJUSTMENTS AS REQUIRED TO AVOID CONFLICTS, VERIFY WITH OWNER.
  - ASBESTOS, "TRANSITE" OR UNKNOWN MATERIAL ENCOUNTERED DURING THE CONSTRUCTION SUSPECTED TO BE ASBESTOS SHALL BE BROUGHT TO THE ATTENTION OF OWNER FOR DISPOSITION. STOP ALL WORK AND CONTACT OWNER IMMEDIATELY IN THIS EVENT.
  - ELECTRICAL CONTRACTOR TO COORDINATE WITH ARCHITECTURAL AND MECHANICAL CONTRACTOR FOR ITEMS SUPPLIED BY THE MECHANICAL/OTHER DIVISIONS BUT INSTALLED BY THE ELECTRICAL CONTRACTOR. ELECTRICAL CONTRACTOR TO REVIEW ALL THE PLANS FOR THE PROJECT FOR ELECTRICAL WORK.
  - ELECTRICAL CONTRACTOR TO VERIFY ALL EQUIPMENT POWER NEEDS WITH THE ACTUAL SHOP DRAWINGS FOR THE EQUIPMENT TO BE USED, PRIOR TO STARTING ANY ELECTRICAL WORK.
  - ALL ELECTRICAL PENETRATIONS TO BE FIREPROOFED TO MAINTAIN INTEGRITY OF FIRE WALLS/FLOORS/CEILING.
  - PROVIDE LAMICOID NAMEPLATES FOR ALL ELECTRICAL DISTRIBUTION AND DISCONNECT EQUIPMENT.
  - THE DISPOSAL OF ALL UNUSED EXISTING ELECTRICAL EQUIPMENT REMOVED IS A PART OF THE SCOPE OF WORK. THE ELECTRICAL CONTRACTOR SHALL DISPOSE OF ALL SUCH EQUIPMENT, INCLUDING HAZARDOUS PCB CONTAINING BALLASTS, IN A MANNER CONSISTENT WITH STATE OF CT. DEPARTMENT OF ENVIRONMENTAL PROTECTION REGULATIONS, CURRENT ISSUE.
  - SHARED NEUTRALS ARE NOT TO BE USED. PROVIDE SEPARATE NEUTRALS FOR ALL CIRCUITS.
  - PRIOR TO SUBMISSION OF BIDS GIVE WRITTEN NOTICE TO ARCHITECT AND ENGINEER OF ANY MATERIAL OR APPARATUS THAT IS INADEQUATE, UNSUITABLE FOR THE USE, IN VIOLATION OF LAWS, ORDINANCES, RULES, CODES OR ANY REGULATIONS OF AUTHORITIES HAVING JURISDICTION OR ANY NECESSARY ITEMS OF WORK THAT HAS BEEN OMITTED. CONTRACTOR AFFIRMS THAT ABSENT SUCH NOTICE, ALL SYSTEMS WILL FUNCTION SATISFACTORILY WITHOUT ADDITIONAL EXTRA COMPENSATION.
  - ALL PART NUMBERS ARE PROVIDED FOR THE CONVENIENCE OF THE CONTRACTOR. THEY ARE NOT TO BE CONSIDERED THE COMPLETE SPECIFICATION OF THE PRODUCT. THE PART NUMBER AND DESCRIPTION WILL BE THE COMPLETE SPECIFICATION. IN THE EVENT OF A DISCREPANCY BETWEEN THE TWO, THE MORE STRINGENT, MORE COSTLY FEATURE/PERFORMANCE WILL BE REQUIRED.
  - FOR ALL ROOFTOP OR GRADE LEVEL HVAC EQUIPMENT, THE ELECTRICAL CONTRACTOR SHALL SUPPLY A GFCI WP, 20A RECEPTACLE FOR EQUIPMENT SERVICING. ALL DISCONNECT SWITCHES ARE TO BE HEAVY DUTY, FUSED, WEATHER PROOF (WP) DEVICES.
  - ALL WIRING IN AIR PLENUM CEILING SHALL BE TEFLON COATED AND RATED FOR USE WITHIN THE PLENUM.
  - NO LOW VOLTAGE WIRING SHALL BE PERMITTED IN THE SAME RACEWAY AS POWER WIRING.
  - PROVIDE DRAG LINES IN ALL EMPTY RACEWAYS.
  - CIRCUIT NUMBERS ARE INDICATED FOR INTENT ONLY. THE ELECTRICAL CONTRACTOR SHALL ADJUST ACCORDINGLY IN THE FIELD, TO BALANCE CIRCUITS EVENLY ON ALL PHASES.
  - REFER TO ARCHITECTURAL DRAWINGS FOR THE EXACT LOCATION AND MOUNTING HEIGHTS OF ALL DEVICES AND OUTLETS.
  - FOR ALL WALL/CEILING BOXES FOR DATA COMMUNICATIONS PROVIDE 3/4" C EMPTY CONDUITS TO HUNG CEILING OR OTHER ACCESSIBLE SPACE. INSTALL A DRAG WIRE.
  - PROVIDE UPDATED DIRECTORY OF EACH AND EVERY EXISTING PANELBOARD/LOAD CENTER AFFECTED BY THIS ALTERATION.
  - MINIMUM CONDUCTOR SIZE FOR A FULLY LOADED 20A CIRCUIT, UNLESS OTHERWISE NOTED, SHALL BE #12 FOR ALL BRANCH CIRCUIT RUNS UP TO THE FIRST OUTLET, OVER 60 FEET, #10; OVER 105 FEET, #8; INCREASE CONDUIT SIZE TO SUIT.
  - ELECTRICAL CONTRACTOR TO VERIFY LOADS, SETTINGS, OVERCURRENT PROTECTION... ETC TO INSURE COMPATIBILITY OF EQUIPMENT.
  - DISCONNECT SWITCHES AND CIRCUIT BREAKER USED AS SWITCHES SHALL BE INSTALLED IN ACCORDANCE WITH ALL LOCAL CODES AND THE LATEST VERSION OF THE NATIONAL ELECTRICAL CODE "NEC" SECTION 404.8. ALL DISCONNECT SWITCHES AND CIRCUIT BREAKERS SHALL BE LOCATED SO THAT THEY MAY BE OPERATED FROM A READILY ACCESSIBLE PLACE. THEY SHALL BE INSTALLED SUCH THAT THE CENTER OF THE GRIP OF THE OPERATING HANDLE OF THE SWITCH OR CIRCUIT BREAKER, WHEN IN ITS HIGHEST POSITION, IS NOT MORE THAN 6'-7" ABOVE THE FLOOR OR WORKING PLATFORM
  - ALL DISCONNECT SWITCHES AND CIRCUIT BREAKER SHALL BE INSTALLED IN ACCORDANCE WITH ALL LOCAL CODES AND THE LATEST VERSION OF THE NATIONAL ELECTRICAL CODE "NEC" SECTION 110.26 TABLE 110.26(A)(1).
  - ALL NEW FIRE ALARM DEVICES SHALL MATCH THE EXISTING BUILDING STANDARD MANUFACTURER. THE FIRE ALARM SYSTEM'S SOFTWARE AND DISPLAY SHALL BE UPGRADED AS REQUIRED WITH NEW ROOM NAMES AND FLOOR PLAN LAYOUT. THE FIRE ALARM SYSTEM SHALL BE TESTED UPON COMPLETION OF ALL NEW AND/OR RELOCATED FIRE ALARM DEVICES ACCORDING TO [NFPA72 14.4.1.2.1.4] WHEN CHANGES ARE MADE TO SITE SPECIFIC SOFTWARE, THE FOLLOWING SHALL APPLY:
    - ALL FUNCTIONS KNOWN TO BE AFFECTED BY THE CHANGE, OR IDENTIFIED BY A MEANS THAT INDICATES CHANGES, SHALL BE 100 PERCENT TESTED.
    - IN ADDITION, 10 PERCENT OF INITIATING DEVICES THAT ARE NOT DIRECTLY AFFECTED BY THE CHANGE, UP TO A MAXIMUM OF 50 DEVICES, ALSO SHALL BE TESTED AND CORRECT SYSTEM OPERATION SHALL BE VERIFIED.
    - A REVISED RECORD OF COMPLETION IN ACCORDANCE WITH 10.18.2.1 SHALL BE PREPARED TO REFLECT THESE CHANGES.
  - IN ADDITION TO THE REQUIREMENTS SHOWN FOR LOW VOLTAGE EQUIPMENT AND RACEWAYS, THE ELECTRICIAN SHALL CARRY AN ALLOWANCE FOR FINAL COORDINATION AND INSTALLATION OF ALL RACEWAYS AND SLEEVES REQUIRED TO FACILITATE THE LOW VOLTAGE CONSULTANT WORK.

Job: OMA 23251

Scale: 1/2" = 1'-0"

Drawn: IES

Checked: PJP

Date: 11-3-23

Revised: \*

Stamp:

North Arrow:

Drawing Number:

E102

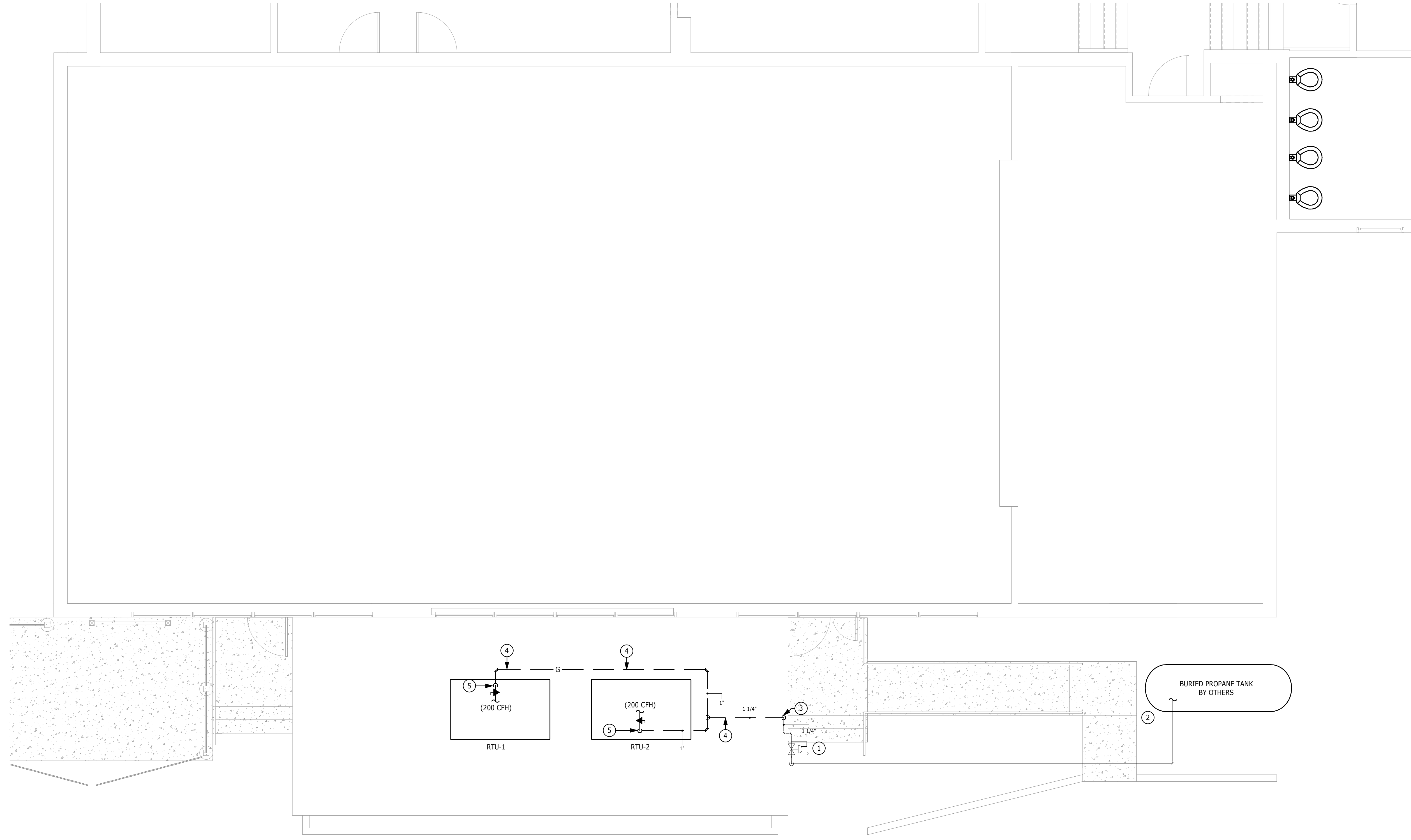
Prepared By: **O'Riordan Migan Architects LLC**  
 22 Bank Street, Seymour, CT 06483 732.688.7687

Innovative Engineering Services, LLC  
 13 North Plains Industrial Road, Wallingford, CT 06495 732.677.4340

**GYM ADDITION ELECTRICAL NOTES, SCHEDULES, LEGENDS**  
 Town of Bethany  
 Town of Bethany, CT 06524







**PLUMBING ADDITION FLOOR PLAN**

Scale: 1/4" = 1'-0"

- PLUMBING DRAWING NOTES**
- 1 PROpane PRESSURE REDUCING VALVE MOUNTED ABOVE GRADE ON EXTERIOR WALL BY PROPANE VENDOR COMPANY. PROPANE REQUIRED SHALL BE 400 CFH @ 45" - 14" W.C.
  - 2 APPROXIMATE LOCATION OF PROPANE UNDERGROUND PIPING, AND TANK BY PROPANE VENDOR COMPANY.
  - 3 1-1/4" PROPANE UP WITHIN EXTERIOR WALL.
  - 4 PROVIDE PROPANE GAS PIPING BELOW ROOF IN SPACE BELOW.
  - 5 PROVIDE 1" PROPANE GAS PIPING FROM SPACE BELOW UP INSIDE OF RTU. COORDINATE FINAL CONNECTIONS WITH HVAC CONTRACTOR.

Drawing Number: <b>P101</b>	Job: OMA 23251 Date: 11-3-23	North Arrow: 	Stamp: <hr style="border: 1px solid black;"/>	Drawing Title: <b>GYM ADDITION PLUMBING PLANS</b>	Prepared By: O'Riordan Migani Architects LLC 22 Bank Street, Seymour, CT 06483 P202.888.7667 Innovative Engineering Services, LLC 13 North Plains Industrial Road, Wallingford, CT 06495 P203.467.4340
Scale: 1/4" = 1'-0" Drawn: IES Checked: PJP		Reviser: Approver <hr style="border: 1px solid black;"/> <hr style="border: 1px solid black;"/>		Town of Bethany Town of Bethany, CT 06524	



