



Architectural Review Board

Town Hall, 110 Myrtle Avenue
Westport, CT 06880
Westportct.gov
Telephone (203) 341-1184

Submission Date: August 12, 2026

Accela Record Number: ARB-26-00004

Address of proposed work: 1849 Post Road East

Property PID#: I09118000

Zoning District:

Owner: Fin Max Realty LLC

Phone:

Address: 163 Old Field Road, Fairfield

E-mail:

Agent/Contractor (*if different*): Thomas Kane

Phone: 203-257-2998

Address:

E-mail: tjkbuilders@gmail.com

Narrative:

Renovation and addition to existing building located at 1849 Post Road E, Westport, CT 06880

Removing the rear section of the building, verifying the structure of the foundation, repairing if any is necessary.

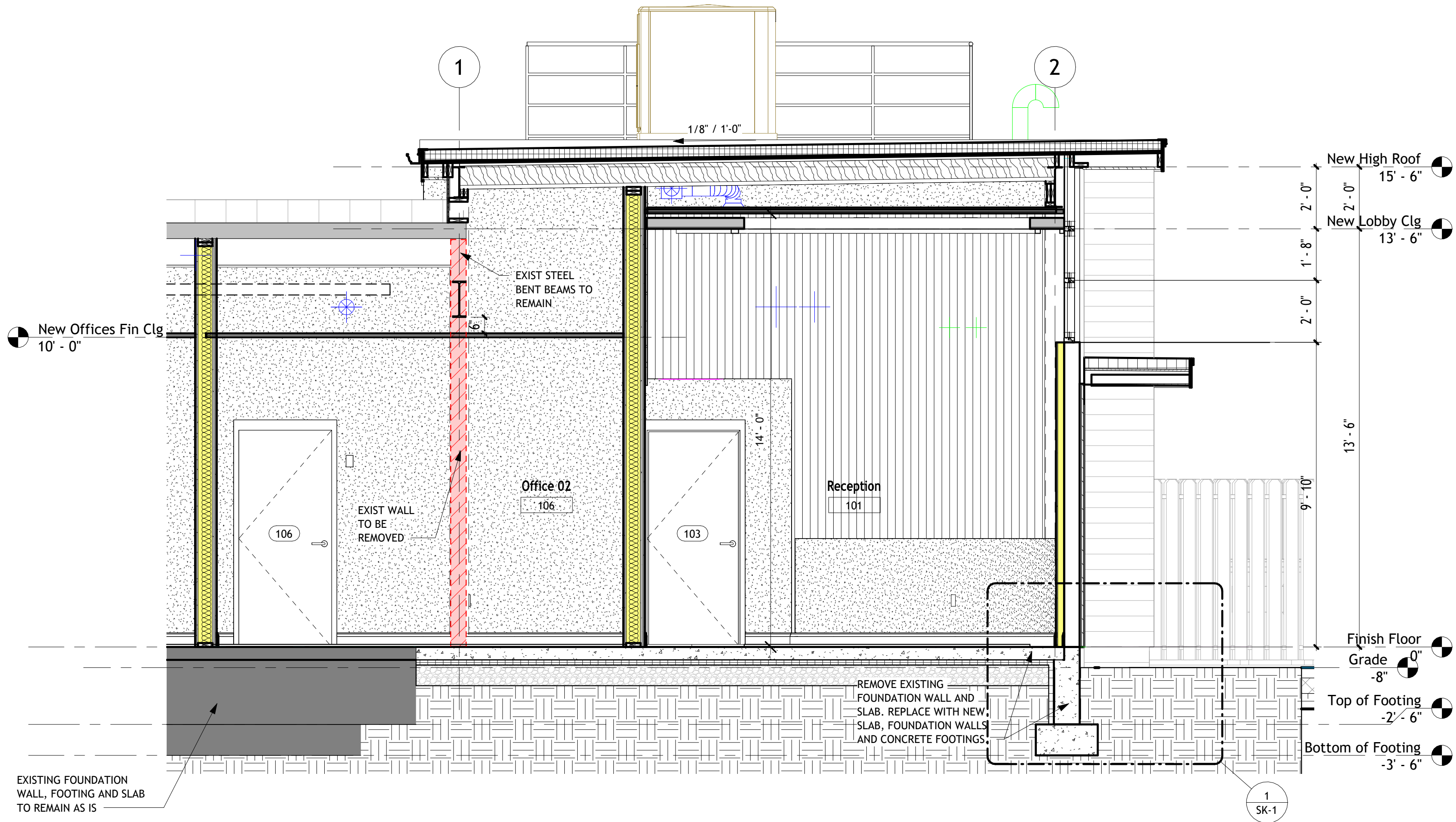
Constructing a new one story addition to the rear of the building for professional office use.

Exterior siding, roof, windows, trims, fascias', soffits, moldings are all identified on the architectural plans

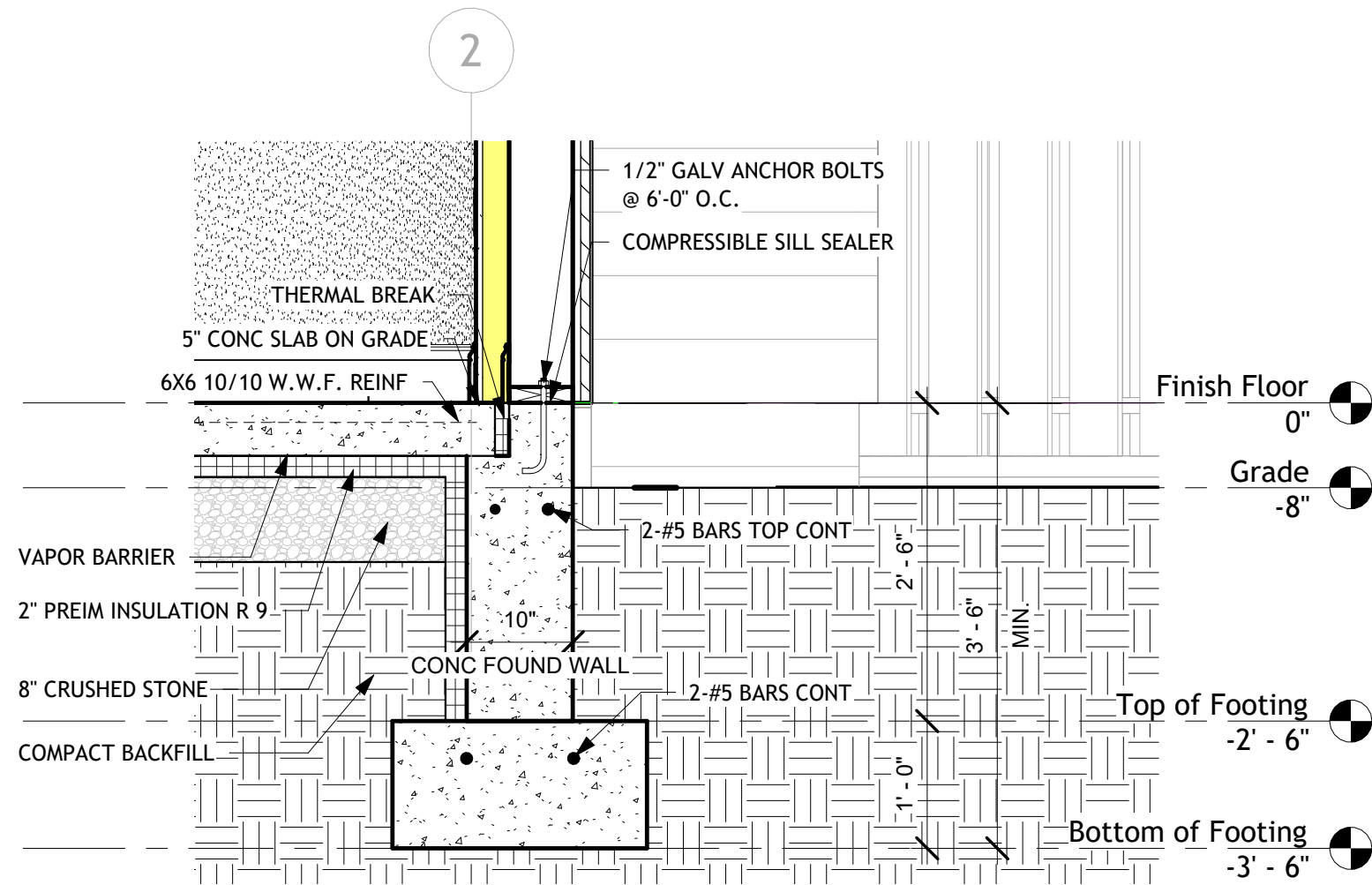
Interior to be framed and finished as shown on plans for professional office use. The existing restaurant (Shake Shack) to remain untouched

All mechanicals to be done to code with the necessary condensers and electrical panels to be placed to meet code and compliance with all departments and recommendations.

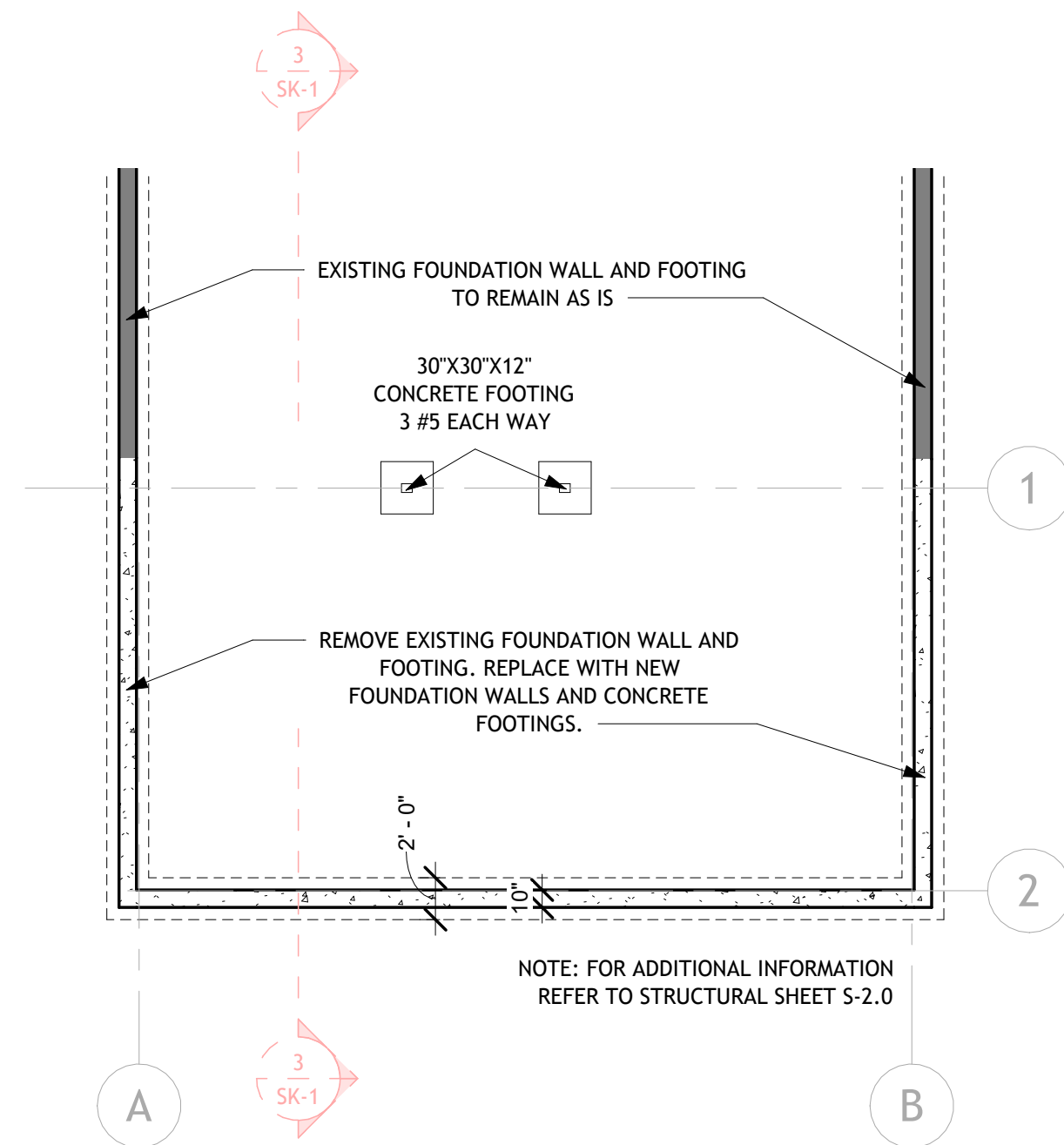
Interior and exterior finishes are identified on attached plans



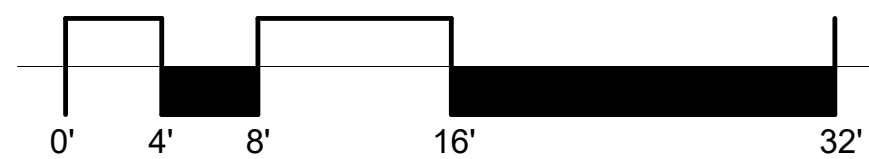
Section 9 Copy 1
3/8" = 1'-0"



Section 9 Copy 1 - Callout 1
3/4" = 1'-0"



Top of Footing
1/8" = 1'-0"



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Do not scale these drawings. Under no circumstance should these drawings be scaled for lengths, areas, distances or for any other purposes to determine quantities. If dimensions are in question, the contractor shall be responsible for obtaining clarification. Wiles Architects is not responsible for inconsistencies in scale due to printing, plotting and/or digital reproduction.

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Wellness Center

1849 Post Road East Westport CT

Professional Seal:



wiles + Architects
Wiles + Architects, LLC
257 Naugatuck Ave
Milford, CT 06460
ph: 203.366.6003
f: 203.583.3557
www.wilesarch.com

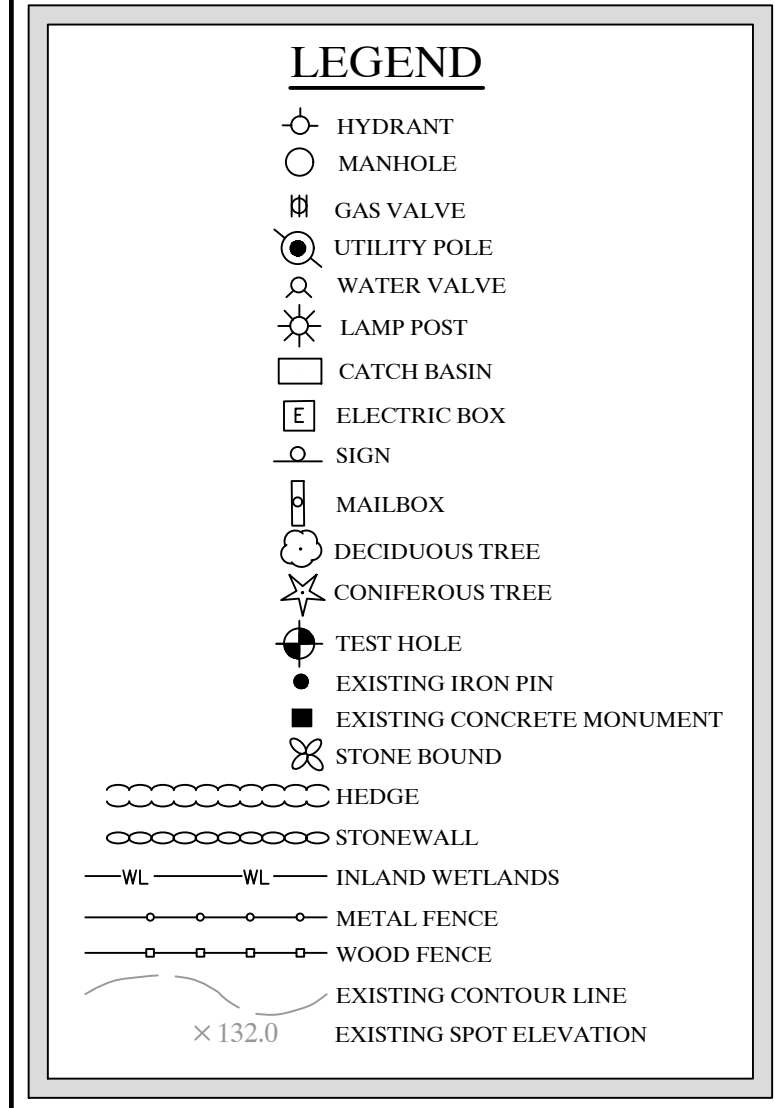
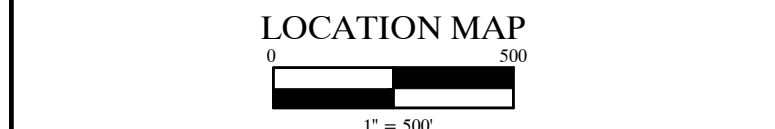
No.	Description	Date

Foundation Plan and Section

Project number	24-140
Date	04.24.2026
Drawn by	Author
Checked by	Checker
	Designer

SK-1

Scale As indicated



Michael S. Shevlin, Jr. PLS #

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HD-12

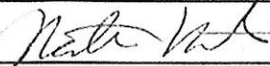
SUMMARY OF FEE SCHEDULE
CONSERVATION DEPARTMENT AND COMMISSION
 (AS TAKEN FROM APPENDIX C OF THE WESTPORT TOWN CODE)
 EFFECTIVE July 1, 2025

RECEIVED

MAY 05 2026

PROJECT LOCATION: **1849 Post Road East** PROJECT: **Addition**

**TOWN OF WESTPORT
CONSERVATION DEPARTMENT**

Authorized Dept. Signature:  Date: **4/23/26**

TOTAL FEE: **\$ 2,860.00**

I. ACTIVITY FEES

SINGLE FAMILY RESIDENCE

New Single Family Residence (Addition > 1,000 sq. ft. is considered a new residence)	\$1,750	
Residential Addition (>500 & < 1,000 sq. ft.)	\$1,200	
Residential Addition (<500 sq. ft.)	\$750	
ADU (1,000 sq. ft. or less)	\$1,200	
Septic Replacement/Repair (included in new construction)	\$500	
Sewer Line Installation	\$300	
Demolition of Structures	\$200	

MULTI-FAMILY RESIDENTIAL

New Subdivision	\$750 / lot	
New Multi-Family Single Structure	\$5,000	
New Multi-Family Multiple Structures	\$2,500 and \$750 / unit	
Demolition of Structures	\$500 / structure	

INDUSTRIAL/COMMERCIAL

New Commercial, Institutional, Educational, or Non-Res Structure	\$3,500 / building	
Additions, Renovations, Site Work	\$2,000 / building or activity	2000
A/C, Generator, Equipment Pad	\$500 / activity	
Demolition of Structures	\$750 / building	

WATERBODY/WATERCOURSE

Docks	\$1,000	
Marinas	\$3,000	
In Water Disturbance, Dredging, Seawall (each activity)	\$2,500	

OTHER ACTIVITIES (per project)

Garage, Barn, or Accessory Structure (i.e. pool house or cabana)	\$600	
Swimming Pool	\$1,250	
Sport or Tennis Court	\$1,000	
Driveway/Driveway Addition over 200 sq. ft.	\$500	
Road Installation	\$1,500	
Other Land Disturbance (i.e. patios, hot tubs, grading, retaining walls, etc.)	\$400	
Other Projects: decks, porches, pergolas, fences, sheds, a/c units, generators, test pits, remediation, soil borings, stormwater detention/drainage, ust's	\$250	

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CONSERVATION DEPARTMENT AND COMMISSION
 (AS TAKEN FROM APPENDIX C OF THE WESTPORT TOWN CODE)
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II. CORRECTIVE ACTION PERMITS

Work without a permit or work exceeding the original permit	2X Activity Fees	
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III. PERMIT MODIFICATIONS/EXTENSIONS/TRANSFERS

Modify/Extension/Withdraw & Resubmit	25% of original base permit fee	
Transfer of Ownership	\$500	

***FEES FOR OUTSIDE CONSULTANTS:** See Section 2-56.

IV. CEASE AND DESIST AND CONFORMANCE ORDERS

For violations pursuant to the Inland Wetlands and Watercourses Regulations of the Town of Westport, Connecticut: See Section 30-123.
 For violations pursuant to the Waterway Protection Line Ordinance: See Ch. 30, Art. IV.

V. AMENDMENTS

Map Amendment: Up to 3 acres	\$1,000	
Map Amendment: 3.01 or greater	\$1,000 + \$350 per acre > 3 ac	
Request for amendment to regulations	\$750 + \$45 for legal ad	
Landscape Plan Review	\$100	

VII. ADMINISTRATIVE FEES

State Fee (IWW applications only)	\$60	60
Process Fee — Includes Pre-application meetings, Legal Notices, Inspections — for application greater than \$1,000	\$800	800
Commission Review Fee	\$500	

VIII. BOND MANAGEMENT FEE

Staff level bonds.	\$100	
Conservation Commission bonds.	\$300	

TOTAL: \$ 2,860.00

0575

2,860.00

4/30/2026

2,860.00

YOUR RECEIPT
THANK YOU
CALL AGAIN

Town of Westport
Conservation Department
(203)341-1170

REG 05-06-2026 10:50
000009

1 ACTIVITY FEE	\$2,000.00
1 STATE FEE	\$60.00
1 PROCESS FEE	\$800.00
TL	\$2,860.00
CHECK	\$2,860.00



WESTPORT

MONARCH HOLDING CO, LLC
Town of Westport Conservation

Fieldpoint Private Che 1849 Post Rd E- Bond

Wellness Center

1849 Post Road East Westport CT

PROJECT STATUS:

Construction Documents

SCOPE OF WORK:

- WELLNESS CENTER INTERIOR RENOVATIONS:
8 PRIVATE SOUND RESISTANT THERAPIST OFFICE
- COMMON AREA FOR STAFF
 - TOILETS FOR THERAPIST AND CLIENTS
 - WAITING AREA FOR CLIENTS
 - SEPARATE CLIENT ENTRANCE AND EXITS
 - AESTHETIC SHOULD BE CLEAN CRISP “HAPPY” FEEL
 - SOUND TRANSMISSION OF PARAMOUNT IMPORTANCE
 - HVAC SYSTEM SHALL BE QUIET. CONTROLS SHALL BE BY ZONE NOT INDIVIDUAL OFFICES
 - EXTERIOR EXISTING FENESTRATION CAN BE ALTERED IF NEEDED

PROJECT TEAM:

Architect

Wiles+Architects, LLC
257 Naugatuck Avenue,
Milford, CT 06460
203-366-6003

Owner

Phoenix Surgical
mark@phoenixsurgical.net
203-232-1600

Structural

Mekael Engineering &
Consulting LLC
59 Amity Road, Suite 8
New Haven, CT 06515
(203)684-8134 ext 102

M.E.P.

Perspective Engineering &
Consulting
Peter@PEC-MEP.com
8 High Tor Road
New City , NY 10956

Site

The Huntington Company, LLClinLS.com"
Mike@ShevlinLS.com
203.218.5840 (Ext. 113)
303 Linwood Avenue-Suite 2C
Fairfield, CT

PROJECT DATA

FLOOR AREA

AREA	EXISTING	PROPOSED	TOTAL
REAR PORTION	2,879.25 SF	0 SF	NO CHANGE

VICINITY MAP:



SHEET LIST

Sheet List			
Sheet Number	Sheet Name	Sheet Order	Discipline
INFO			
G000	Cover	0	INFO
G001	General Notes	0	INFO
G002	Abbreviations	0	INFO
G003	ADA Mounting Heights	0	INFO
G004	Accessibility Notes	0	INFO
G005	Egress Plan & Code Sheet	0	INFO
G006	Partition Details	0	INFO
SITE PLAN			
1/1	Existing - Zoning Location Survey	1	SITE PLAN
1/1.	Proposed - Zoning Location Survey	1	SITE PLAN
DEMOLITION			
D101	Demolition Plans	2	DEMOLITION
D201	Demolition Exterior Elevations	2	DEMOLITION
ARCHITECTURAL			
A101	Floor Plans	3	ARCHITECTURAL
A102	Reflected Ceiling Plan	3	ARCHITECTURAL
A103	Roof Plan	3	ARCHITECTURAL
A201	Building Elevations	3	ARCHITECTURAL
A202	Building Elevations	3	ARCHITECTURAL
A203	Interior Elevations - Reception & Public Restrooms	3	ARCHITECTURAL
A204	Interior Elevations - Corridor	3	ARCHITECTURAL
A205	Interior Elevations - Staff Common Space	3	ARCHITECTURAL
A301	Building Sections	3	ARCHITECTURAL
A302	Building Sections	3	ARCHITECTURAL
A401	Wall Sections	3	ARCHITECTURAL
A501	Schedule & Details	3	ARCHITECTURAL
A502	Flooring Details - Corridor	3	ARCHITECTURAL
A503	Flooring Details - Reception	3	ARCHITECTURAL
STRUCTURAL			
S-1.0	General Notes & Typical Details	4	STRUCTURAL
S-2.0	Floor Plan	4	STRUCTURAL
S-3.0	Typical Details	4	STRUCTURAL
MECHANICAL			
M-001	Mechanical Cover Sheet	5	MECHANICAL
M-002	Mechanical General Notes	5	MECHANICAL
M-003	Mechanical General Notes	5	MECHANICAL
M-101	Mechanical Floor Plan	5	MECHANICAL
M-200	Mechanical Details	5	MECHANICAL
M-201	Mechanical Details	5	MECHANICAL
M-202	Mechanical Details	5	MECHANICAL
M-301	Mechanical Schedules	5	MECHANICAL
M-401	Mechanical Specifications	5	MECHANICAL
ELECTRICAL			
E-001	Electrical Cover Sheet	6	ELECTRICAL
E-101	Electrical Power Plan	6	ELECTRICAL
E-201	Electrical Lighting Plan	6	ELECTRICAL
E-301	Electrical Power Riser Diagram	6	ELECTRICAL
E-401	Electrical Details	6	ELECTRICAL
E-402	Electrical Details	6	ELECTRICAL
E-501	Electrical Legend	6	ELECTRICAL
E-601	Fire Alarm Specifications	6	ELECTRICAL
E-701	Electrical Specifications	6	ELECTRICAL
E-702	Electrical Specifications 2	6	ELECTRICAL
PLUMBING			
P001	Plumbing Cover Sheet & Schedules	7	PLUMBING
P100	Plumbing Plans	7	PLUMBING
P200	Plumbing Details	7	PLUMBING
P202	Plumbing Details	7	PLUMBING
P300	Plumbing Riser Diagrams	7	PLUMBING
P400	Plumbing Specifications	7	PLUMBING
Grand total: 53			

03.11.2026



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	General Construction Notes General Requirements 1. All construction shall comply with the latest editions of applicable codes, including but not limited to the International Building Code (IBC), local building ordinances, fire codes, and accessibility standards. 2. Contractor shall verify all dimensions, elevations, and conditions on site prior to starting any work. Any discrepancies shall be reported to the architect/engineer for clarification. 3. Do not scale drawings. Use figured dimensions only. If dimensions are missing or unclear, contact the design team for clarification. 4. Contractor is responsible for the coordination of all trades and shall ensure that all work is properly integrated and sequenced. 5. Maintain a clean and safe job site at all times. All debris shall be removed regularly and disposed of in accordance with local regulations. 6. All materials shall be new and of commercial-grade quality, unless otherwise noted. Substitutions must be approved in writing by the architect or owner. 7. All work shall be performed by qualified personnel in accordance with industry standards and best practices. 8. Temporary facilities and protections (e.g., fencing, signage, barriers) shall be provided as necessary to protect the public, workers, and adjacent properties. 9. Contractor shall obtain and pay for all required permits, inspections, and approvals. 10. All utility connections and disconnections shall be coordinated with the appropriate utility providers and performed per their requirements. 11. Contractor shall provide shop drawings, product data, and samples for review and approval. 12. All penetrations through fire-rated assemblies shall be sealed with approved firestop systems in accordance with UL listings and local codes. 13. Contractor shall maintain access to existing businesses and public areas during construction unless otherwise approved. 14. All work disturbed during construction shall be restored to its original or better condition. 15. Final cleaning and touch-up work shall be completed prior to final inspection and occupancy. Code Compliance - All work shall conform to the latest adopted editions of the International Building Code (IBC), local zoning ordinances, and fire safety regulations. - Contractor shall obtain and post all required permits before commencing work. 2. Site Conditions - Contractor shall verify all existing site conditions and dimensions prior to construction. - Any discrepancies between drawings and actual conditions shall be reported to the architect/engineer immediately. 3. Coordination - Coordinate all work with utility companies, local inspectors, and adjacent property owners as needed. - Contractor is responsible for coordinating all trades to avoid conflicts and ensure timely completion. 4. Safety and Cleanliness - Maintain a clean and safe job site at all times. Debris shall be removed daily. - Provide temporary barriers and signage to protect the public and adjacent businesses. 5. Materials and Workmanship - All materials shall be new and of commercial-grade quality unless noted otherwise. - Workmanship shall meet or exceed industry standards and manufacturer recommendations. 6. Accessibility - All entrances, restrooms, and public areas shall comply with ADA and local accessibility codes.	7. Mechanical, Electrical, and Plumbing (MEP) 8. Fire Protection 9. Inspections and Testing 10. Closeout Accessibility Notes Architectural General Notes Division 2 Selective Demolition General - All demolition work shall comply with the latest editions of the International Building Code (IBC), OSHA regulations, and local building ordinances. - The contractor shall verify all existing conditions and dimensions on site prior to beginning demolition. - Selective demolition shall be limited to the areas indicated on the drawings. Do not remove or disturb any elements not specifically identified for demolition. 2. Protection - Protect all existing construction, finishes, utilities, and equipment designated to remain. - Provide temporary barriers, dust partitions, and signage to separate demolition areas from occupied or active construction zones. - Protect adjacent properties, public areas, and building occupants from noise, dust, and debris. 3. Utilities - Disconnect, cap, or reroute all utilities (electrical, plumbing, HVAC, fire protection) serving areas to be demolished prior to starting work. - Coordinate utility shutdowns with the owner and local utility providers. - Clearly mark all active utilities to remain and protect them from damage. 4. Hazardous Materials - If hazardous materials (e.g., asbestos, lead paint, mold) are suspected or encountered, stop work and notify the owner immediately.	2. Take concrete cylinder samples for compressive strength testing per ASTM C31 and C39. 8. Finishes - Slabs shall receive the finish specified in the drawings (e.g., troweled, broom, or exposed aggregate). Division 4 Masonry General - All masonry work shall comply with the latest editions of the International Building Code (IBC) and TMS 402/602 (Building Code Requirements and Specification for Masonry Structures). - Verify all dimensions, locations, and conditions in the field prior to starting masonry work. - Coordinate masonry work with structural, architectural, and MEP drawings. 2. Materials - Concrete masonry units (CMU) shall conform to ASTM C90, Grade N, Type 1, with a minimum compressive strength of 1,900 psi. - Clay brick shall conform to ASTM C216, Grade SW, Type FBS unless otherwise specified. - Mortar shall conform to ASTM C270, Type S or M as specified, mixed in accordance with manufacturer's instructions. - Grout shall conform to ASTM C476 and be used where reinforced masonry is required. 3. Installation - Masonry units shall be laid plumb, level, and true to line with uniform joints. - All head and bed joints shall be fully filled with mortar. - Too joints to a concave finish unless otherwise noted. - Cold or hot weather protection shall be provided per TMS 602 requirements. 4. Reinforcement and Grouting - Reinforcing bars shall conform to ASTM A615, Grade 60, and be placed per structural drawings. - Vertical reinforcement shall be tied to horizontal reinforcement and properly supported prior to grouting. - Grout fills shall not exceed 5 feet unless high lift grouting is specified and permitted. - Clear all grout spaces of debris before placing grout. 5. Flashing and Moisture Control - Provide flashing and weep holes at all base courses, shell angles, and above openings to direct moisture to the exterior. - Install through-wall flashing and drip edges as detailed. - Use damp-proofing or water-repellent admixtures where specified. 6. Tolerances - Masonry construction tolerances shall comply with ACI 530.1/TMS 602. - Maximum variation from plumb: 1/4" in 10 feet, 1/2" in 20 feet. - Maximum variation from level: 1/8" in 10 feet, 1/4" in 20 feet. 7. Cleaning and Protection - Protect masonry from staining during construction. Remove mortar smears and clean masonry using approved methods. - Do not use acid cleaning on clay brick unless specifically approved. - Protect completed masonry from weather and damage until project completion. Division 5 - Metals General Requirements - All structural work shall conform to the latest editions of applicable codes, including the International Building Code (IBC) and referenced standards (e.g., AISC, ASCE). - Structural drawings shall be used in conjunction with architectural, civil, mechanical, and electrical drawings. Any discrepancies shall be brought to the attention of the structural engineer before proceeding.	4. Foundation insulation (e.g., slab edge or perimeter wall) shall be installed per energy code and protected from physical damage and moisture. 7. Coordination - Coordinate insulation installation with mechanical, electrical, and plumbing trades to avoid conflicts and ensure continuous thermal and air barriers. - Penetrations through insulated assemblies shall be sealed to maintain air and thermal integrity. Roofing General Notes 1. General - All roofing work shall comply with the latest editions of the International Building Code (IBC), local building codes, and manufacturer's installation instructions. - Verify all roof slopes, penetrations, and drainage conditions prior to installation. - Coordinate roofing work with mechanical, electrical, and plumbing trades for all rooftop equipment and penetrations. 2. Materials - Roofing system shall be as specified (e.g., TPO, EPDM, modified bitumen, or metal roofing) and suitable for the building's occupancy and climate zone. - All roofing materials shall be new, UL-listed, and approved for commercial use. - Insulation shall meet or exceed the minimum R-value required by the International Energy Conservation Code (IECC). 3. Substrate Preparation - Roof deck shall be clean, dry, and free of debris, oil, or sharp objects before roofing installation. - Verify that all fasteners, joints, and substrate conditions are secure and meet manufacturer's requirements. 4. Installation - Roofing membrane shall be installed in accordance with the manufacturer's specifications, including overlaps, adhesives, and fastening patterns. - Provide crickets, saddles, and tapered insulation to ensure positive drainage to roof drains or scuppers. - All penetrations shall be properly flashed and sealed using compatible materials. 5. Flashing and Edge Conditions - Install metal edge flashing, counterflashing, and coping caps as detailed and per ANSI/SPRI ES-1 standards. - Flashing shall extend a minimum of 8" vertically at parapets and curbs unless otherwise noted. - All joints in flashing and metal work shall be sealed watertight. 6. Drainage - Roof shall be sloped to drain with no standing water deeper than 1/2" remaining 48 hours after rainfall. - Roof drains, scuppers, and overflow drains shall be installed per code and coordinated with plumbing drawings. 7. Protection and Warranty - Protect completed roofing from damage during construction. Any damaged areas shall be repaired or replaced at no cost to the owner. - Provide a minimum 20-year manufacturer's warranty and a 2-year contractor workmanship warranty, unless otherwise specified. 8. Safety - Contractor shall follow all OSHA safety requirements for fall protection and rooftop work. - Temporary tie-offs and safety anchors shall be installed as needed during construction. Siding General Notes - Small Commercial Projects 1. General - All siding work shall comply with the latest editions of the International Building Code (IBC) and local building codes. - Verify all siding types, locations, and transitions with architectural elevations and wall sections prior to installation. - Contractor shall coordinate siding installation with windows, doors, flashing, and other exterior elements.	2. Replace any damaged or defective components at no additional cost to the owner. Division 9 Finishes Flooring General Notes - Small Commercial Projects 1. General - All flooring work shall comply with the latest editions of the International Building Code (IBC), ADA accessibility standards, and manufacturer's installation guidelines. - Verify all flooring types, patterns, transitions, and locations with the floor finish schedule and architectural plans prior to installation. 2. Materials - Flooring materials shall be commercial-grade and include one or more of the following as specified: - Vinyl Composition Tile (VCT) - Luxury Vinyl Tile (LVT) - Ceramic or Porcelain Tile - Carpet Tile - Polished Concrete - Engineered Wood or Laminate - All materials, underlayments, and accessories shall be compatible with the flooring system and approved by the manufacturer. 3. Substrate Preparation - Substrates shall be clean, dry, level, and free of dust, oil, or contaminants before flooring installation. - Moisture and pH testing shall be performed on concrete slabs per manufacturer's requirements. - Leveling compounds or patching materials shall be used where necessary to meet flatness tolerances. 4. Installation - Flooring shall be installed by qualified personnel in accordance with manufacturer's instructions and industry standards. - Layout shall be pre-approved and aligned with room geometry and architectural features. - Expansion joints and control joints shall be honored and detailed per specifications. 5. Transitions and Trim - Provide appropriate transition strips between different flooring materials and at door thresholds. - All transitions shall be ADA-compliant, smooth, and securely fastened. - Baseboards, reducers, and edge trims shall be installed as specified. 6. Protection and Cleaning - Protect installed flooring from damage by other trades during construction. - Clean all flooring surfaces per manufacturer's recommendations prior to final inspection. - Replace any damaged or defective flooring at no additional cost to the owner. 7. Coordination - Coordinate flooring installation with floor-mounted fixtures, casework, door clearances, and floor outlets. - Ensure proper sequencing with other trades to avoid rework or damage. Wall Finishes General Notes 1. General - All wall finishes shall comply with the latest editions of the International Building Code (IBC), ADA standards, and manufacturer's installation guidelines. - Verify all wall finish types, locations, and transitions with the finish schedule, interior elevations, and architectural plans before installation. 2. Materials - Wall finishes may include: - Paint (latex, epoxy, or low-VOC) - Ceramic or porcelain tile - Vinyl wallcovering - Wood or composite paneling - Decorative plaster or textured coatings - All materials shall be commercial-grade, durable, and suitable for the intended use and environment. 3. Surface Preparation - Substrates shall be clean, dry, smooth, and free of dust, oil, or contaminants. - All joints, fasteners, and imperfections shall be patched and sanded as required to achieve a uniform surface. - Primer or bonding agents shall be applied where required by the finish manufacturer. 4. Installation - Wall finishes shall be installed by qualified personnel in accordance with manufacturer's instructions and industry standards. - Tile and panel systems shall be installed with appropriate adhesives, grout, and fasteners. - Paint shall be applied in the number of coats and sheen levels specified, with uniform coverage and no visible defects. 5. Transitions and Trim - Provide appropriate edge trims, corner guards, and baseboards at all transitions and terminations. - All transitions between different wall finishes shall be clean, level, and aligned with architectural intent. 6. Moisture and Impact Resistance - In wet or high-traffic areas, use moisture-resistant finishes such as tile, FRP panels, or epoxy coatings. - Provide wall protection (e.g., chair rails, crash rails) where indicated or required by occupancy type. 7. Coordination - Coordinate wall finishes with MEP penetrations, casework, fixtures, and signage. - Ensure backing or blocking is provided for wall-mounted elements prior to finish installation. 8. Cleaning and Protection - Protect all wall finishes from damage during construction. - Clean all surfaces per manufacturer's recommendations prior to final inspection. - Touch-up or replace any damaged or defective finishes at no additional cost to the owner. Painting General Notes 1. General - All painting work shall comply with the latest editions of the International Building Code (IBC) and manufacturer's specifications. - Verify all surfaces, colors, and finishes with the finish schedule, interior elevations, and architectural drawings prior to beginning work. - All paint and coatings shall be low-VOC and suitable for commercial interior and exterior applications. 2. Surface Preparation - All surfaces to be painted shall be clean, dry, and free of dirt, grease, oil, rust, and other contaminants. - Patch and sand all holes, cracks, and surface imperfections to achieve a smooth, uniform substrate. - Apply primer to all new or bare surfaces and where required by the paint manufacturer. 3. Materials - Paints and coatings shall be commercial grade and from an approved manufacturer. - Use the specified number of coats and sheen levels (e.g., flat, eggshell, semi-gloss) as indicated in the finish schedule. - All materials shall be delivered in original, unopened containers with manufacturer's labels intact. 4. Application - Apply paint using brush, roller, or spray methods as appropriate for the surface and product. - Maintain uniform coverage and color consistency across all surfaces.	2. All penetrations through rated assemblies shall be firestopped per UL-listed systems. 3. Provide fire extinguishers in accessible and clearly marked locations. 4. Coordinate fire alarm devices with architectural finishes and ceiling layouts. Submit shop drawings for fire protection systems for review and approval. Site Work General Notes - Small Commercial Projects 1. All site work shall comply with local municipal codes, zoning ordinances, and environmental regulations. 2. Contractor shall verify all existing site conditions, including utilities, grades, and property boundaries, prior to beginning work. 3. Erosion and sediment control measures shall be installed and maintained throughout construction per approved plans and local requirements. 4. All grading shall ensure positive drainage away from buildings and toward approved stormwater management systems. 5. Contractor shall protect existing trees, landscaping, and utilities designated to remain. 6. All disturbed areas shall be stabilized with topsoil and seed, sod, or other approved ground cover upon completion. 7. Utility trenching and backfilling shall be performed per utility provider standards and compacted to prevent settlement. 8. All new utility connections (water, sewer, gas, electric, telecom) shall be coordinated with local utility companies and inspected as required. 9. Paving subgrade shall be compacted to 95% Standard Proctor Density and proof-rolled prior to placement of base and asphalt layers. 10. Sidewalks, curbs, and ramps shall be constructed per ADA standards and local accessibility codes. 11. Contractor shall maintain safe access to adjacent properties and public rights-of-way during construction. 12. All site signage, striping, and lighting shall be installed per approved plans and local regulation Civil/Site General Notes 1. All site work shall comply with local zoning and environmental regulations. 2. Contractor shall provide erosion and sediment control measures throughout construction. 3. All grading shall ensure positive drainage away from structures. 4. Utility connections shall be coordinated with local utility providers. 5. All disturbed areas shall be stabilized with topsoil and seed or sod upon completion.

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General Notes

Project number	24-140
Date	03.11.2026
Drawn by	Author
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	Designer

G001

Scale

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ABBREVIATIONS

&	AND	N	NORTH
<	ANGLE	NIC	NOT IN CONTRACT
@	AT	NO	NUMBER
A/C	AIR CONDITIONING	NOM	NOMINAL
ADA	AMERICANS WITH DISABILITIES ACT	NPS	NOT IN PROJECT SCOPE
ADJ	ADJACENT	NTS	NOT TO SCALE
AFF	ABOVE FINISHED FLOOR	OA	OVERALL
ALUM	ALUMINUM	OC	ON CENTER
BUR	BUILT UP ROOFING	OD	OUTSIDE DIAMETER
BW	BOTH WAYS	OPG	OPENING
CB	CATCH BASIN	OPH	OPPOSITE HAND
CK-BD	CHALK BOARD	OPP	OPPOSITE
CF	CUBIC FOOT		
CI	CAST IRON	PA	PUBLIC ADDRESS
CIRC	CIRCUMFERENCE	PCF	POUNDS PER CUBIC FOOT
CJ	CONTROL JOINT	PERF	PERFORATE
CMU	CONCRETE MASONRY UNIT	PER	PERIMETER
CO	CLEAN-OUT	PLAM	PLASTIC LAMINATE
COL	COLUMN	PLF	POUNDS PER LINEAL FOOT
CONC	CONCRETE	PROP	PROPERTY
CONT	CONTINUOUS	PSF	POUNDS PER SQUARE FOOT
CPT	CARPET	PSI	POUNDS PER SQUARE INCH
CT	CERAMIC TILE	PVC	POLYVINYL CHLORIDE
CTR	CENTER		
CYD	CUBIC YARD		

D	DRAIN	R	RISER
DEMO	DEMOLISH	RAD	RADIUS
DF	DRINKING FOUNTAIN	RCP	REFLECTED CEILING PLAN
DH	DOUBLE HUNG	RD	ROOF DRAIN
DIA	DIAMETER	REF	REFERENCE
DIM	DIMENSION		
DIV	DIVISION	REINF	REINFORCE
DS	DOWNSPOUT	REV	REVISION
DTL	DETAIL	RM	ROOM
DWG	DRAWING	RO	ROUGH OPENING

EA	EACH	SCH	SCHEDULE
EF	EACH FACE	SF	SQUARE FEET
EJ	EXPANSION JOUNT	SIM	SIMILAR
EL	ELEVATION	SQ	SQUARE
ELEC	ELECTRIC	ST-STL	STAINLESS STEEL
ELEV	ELEVATOR	STD	STANDARD
ENC	ENCLOSE	STOR	STORAGE
EQ	EQUAL	SUSP	SUSPENDED
EQP	EQUIPMENT	SY	SQUARE YARD
EST	ESTIMATE	SYM	SYMMETRICAL
EX	EXISTING		
EX	EXISTING	T	TREAD
EXT	EXTERIOR	T&G	TONGUE AND GROOVE

FA	FIRE ALARM	TEL	TELEPHONE
FB	FIRE BLANKET	THK	THICK
FD	FLOOR DRAIN	TK-BD	TACKBOARD
FE	FIRE EXTINGUISHER	TOS	TOP OF STEEL
FEC	FIRE EXTINGUISHER CABINET	TSL	TOP OF SLAB
FFE	FINISHED FLOOR ELEVATION	TV	TELEVISION
FHC	FIRE HOSE CABINET	TW	TOP OF WALL
FIN	FINISHED	TYP	TYPICAL
FND	FOUNDATION		
FTG	FOOTING	UNF	UNFINISHED
FWP	FABRIC WRAPPED PANEL	UON	UNLESS OTHERWISE NOTED

GA	GAUGE	VERT	VERTICAL
GALV	GALVANIZED	VIF	VERIFY IN FIELD
GB	GRAB BAR		
GFRC	GLASS FIBER REINFORCED CONCRETE	W/	WITH
GFRG	GLASS FIBER REINFORCED GYPSUM	WC	WATER CLOSET
GL	GLASS	W/O	WITHOUT
GPBD	GYPSUM BOARD	WP	WORKING POINT
GR	GRADE	WWF	WELDED WIRE FABRIC
GRD	GROUND		

HB	HOSE BIB
HM	HOLLOW METAL
HOR	HORIZONTAL
HP	HIGH POINT
HT	HEIGHT
HVAC	HEAT/ VENT/ AIR COND

ID	INSIDE DIAMETER
IN	INCHES
INT	INTERIOR

JT	JOINT
----	-------

LAV	LAVATORY
LP	LOW POINT
LVR	LOUVER

MAX	MAXIMUM
MECH	MECHANICAL
MEP	MECHANICAL/ELECTRICAL/PLUMBING
MFR	MANUFACTURER
MH	MANHOLE
MIN	MINIMUM
MISC	MISCELLANEOUS
MK-BD	MARKERBOARD
MO	MASONRY OPENING
MTL	METAL
MWK	MILLWORK

LINE TYPES

	CENTER LINE
	BREAK LINE
	HIDDEN LINE
	EXISTING CONSTRUCTION
	REMOVALS
	NEW CONSTRUCTION

WALL INFILL LEGEND

	NEW C.M.U. INFILL TO TO MATCH EXIST. CONST.
	NEW C.M.U. & BRICK INFILL TO MATCH EXIST. CONST.
	NEW C.M.U. & BRICK INFILL WITH 2" RIGID INSULATION IN A 4" WALL CAVITY TO MATCH EXISTING CONSTRUCTION
	RECESSED FIRE EXTINGUISHER CABINET
	SEMI-RECESSED FIRE EXTINGUISHER CABINET

MATERIALS LEGEND

	CONCRETE
	CONCRETE MASONRY UNIT
	BRICK
	STONE
	METAL
	COMPACTED GRAVEL
	CRUSHED STONE
	UNDISTURBED SOIL
	PLYWOOD (SMALL SCALE)
	TILE
	WOOD FRAMING THROUGH MEMBER
	WOOD FRAMING INTERRUPTED MEMBER
	FINISHED WOOD
	BATT INSULATION
	ACOUSTICAL INSULATION
	RIGID INSULATION

DRAWING SYMBOLS

	MATCH LINE
	GRAPHIC SCALE IN FEET
	EXTERIOR ELEVATION KEY
	BUILDING SECTION KEY
	WALL SECTION KEY
	DETAIL SECTION KEY
	DETAIL SECTION KEY (ALTERNATE)
	EXISTING COLUMN GRID LINE
	NEW COLUMN GRID LINE
	WALL TYPE KEY
	EXISTING FLOOR ELEVATION
	NEW FLOOR ELEVATION
	SPOT GRADE
	REVISION KEY (USED WITH CLOUD)
	GRAPHICS & SIGNAGE
	MILLWORK REFERENCE
	ROOM NUMBER
	DOOR NUMBER
	DOOR NUMBER (ALTERNATE)
	INTERIOR ELEVATION KEY
	PLAN DETAIL KEY

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Abbreviations

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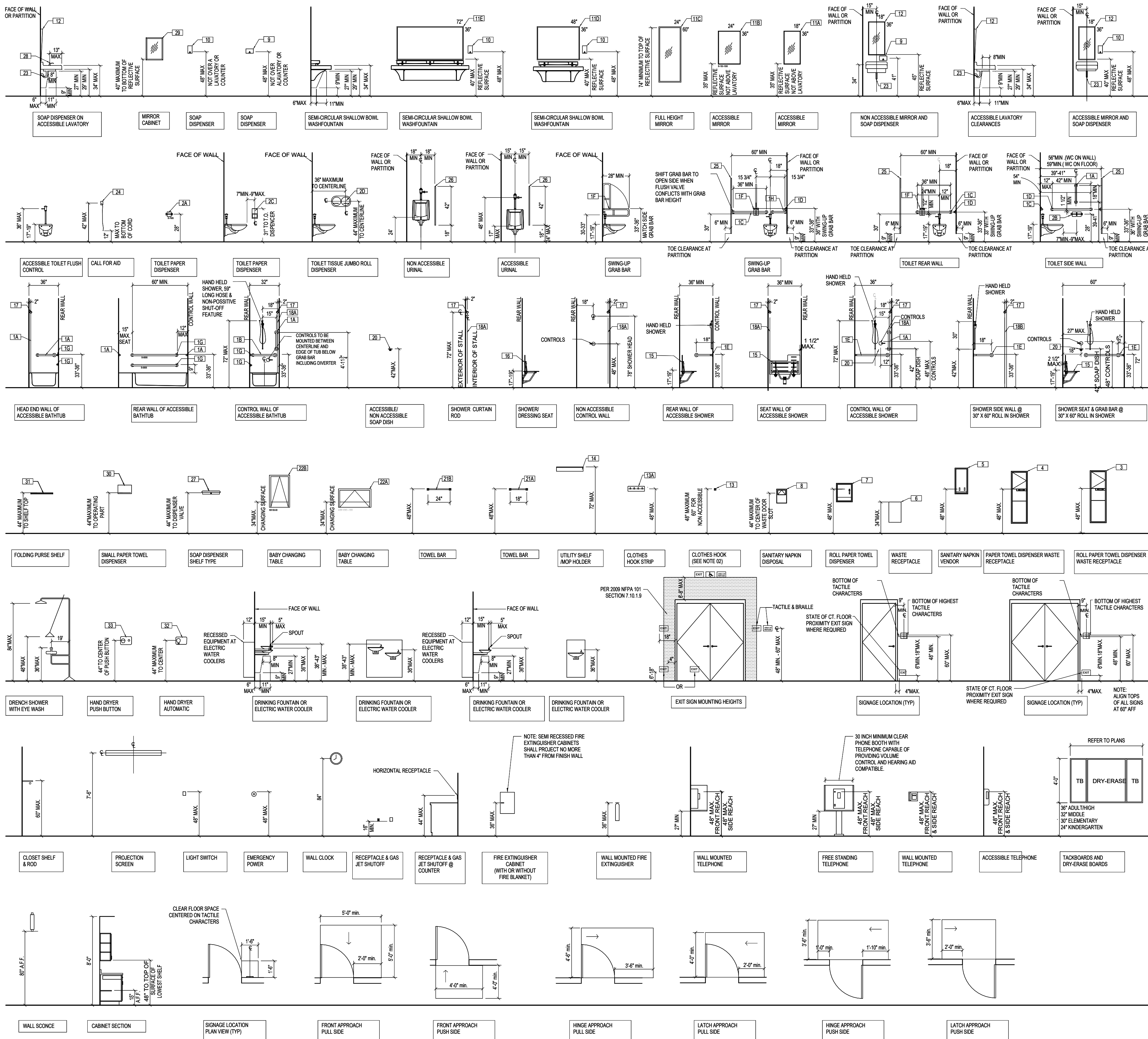
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Scale 12" = 1'-0"

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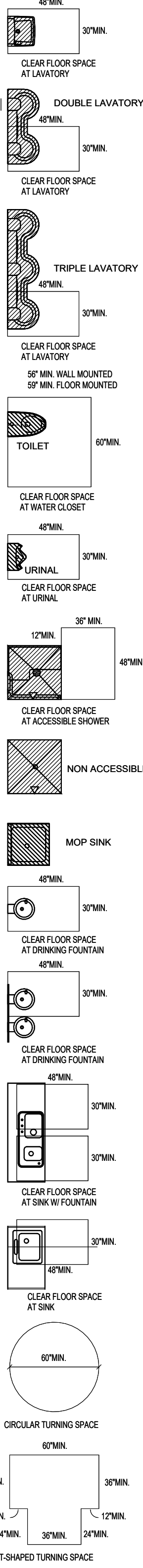
MOUNTING HEIGHTS FOR ADULTS



TOILET ACCESSORIES

- 1A 18" GRAB BAR
- 1B 24" GRAB BAR
- 1C 36" GRAB BAR
- 1D 42" GRAB BAR
- 1E WALL SHOWER BAR
- 1F SWING-UP GRAB BAR
- 1G 48" GRAB BAR
- 1H 12" GRAB BAR
- 2A TOILET TISSUE DISPENSER SINGLE
- 2B TOILET TISSUE DISPENSER MULTI
- 2C TOILET TISSUE DISPENSER MULTI
- 2D TOILET TISSUE DISPENSER JUMBO
- 3 ROLL PAPER TOWEL DISPENSER/WASTE
- 4 PAPER TOWEL DISPENSER/WASTE
- 5 SANITARY NAPKIN DISPENSER
- 6 WASTE RECEPTACLE
- 7 ROLL PAPER TOWEL DISPENSER
- 8 SANITARY NAPKIN DISPOSAL UNIT
- 9 SOAP DISPENSER
- 10 SOAP DISPENSER
- 11A MIRROR, 18"x36"
- 11B MIRROR, 24"x36"
- 11C MIRROR, 24"x60"
- 11D MIRROR, 48"x36"
- 11E MIRROR, 72"x36"
- 12 TILT MIRROR, 18"x36"
- 13 CLOTHES HOOK
- 13A CLOTHES HOOK STRIP
- 14 UTILITY SHELF/MOP HOLDER
- 15 FOLDING SHOWER SEAT
- 16 SHOWER/RESEATING SEAT
- 17 SHOWER CURTAIN ROD
- 18A VINYL SHOWER CURTAIN, 42"W
- 18B VINYL SHOWER CURTAIN, 70"W
- 19 SHOWER CURTAIN HOOK
- 20 SOAP DISH
- 21A 16" TOWEL BAR
- 21B 24" TOWEL BAR
- 22A BABY CHANGING TABLE HORIZONTAL
- 22B BABY CHANGING TABLE VERTICAL
- 23 DRAIN/SUPPLY INSULATION
- 24 CALL FOR AID
- 25 TOILET PARTITION (SEE NOTE 01)
- 26 URINAL SCREEN
- 27 SOAP DISPENSER SHELF TYPE
- 28 SOAP DISPENSER ON COUNTER
- 29 MIRROR CABINET
- 31 FOLDING PURSE SHELF
- 32 HAND DRYER AUTOMATIC
- 33 HAND DRYER PUSH BUTTON

LEGEND



NOTES

- WASTE AND HOT WATER PIPING TO BE INSULATED AT ACCESSIBLE LAVATORIES AND SINKS
 - ADULT FLUSH CONTROLS FOR WATER CLOSETS AND URINALS SHALL BE MOUNTED NO MORE THAN 44" AFF. AND SHALL BE MOUNTED ON THE WIDE SIDE OF THE TOILET STALL
 - ADULT MOUNTING HEIGHT FOR ALL OPERATING PARTS OF MISCELLANEOUS ADULT ACCESSORIES IS 15" A.F.F. MIN. AND 48" A.F.F. MAX. (FIRE ALARMS, SECURITY, THERMOSTATS, ETC.)
 - PROVIDE CONCEALED SOLID BLOCKING IN STUD WALLS FOR ACCESSORY MOUNTING.
 - REFER TO PLANS AND ELEVATIONS FOR REQUIRED ACCESSORIES.
 - ACCESSIBLE STALL MUST HAVE A SELF CLOSING DOOR MECHANISM AND A PULL HANDLE ON THE INSIDE AND ON THE OUTSIDE OF THE DOOR, AROUND THE LATCH AREA.
 - GRAB BARS MUST BE MOUNTED TO THE CENTER LINE OF DIMENSIONS SHOWN
- NOTE:
NOT ALL FIXTURES AND / OR ACCESSORIES MAY BE APPLICABLE TO THIS PROJECT BUT SHOWN FOR COORDINATION PURPOSES, ALLOWING FOR REFERENCE WHERE / WHEN NEEDED.

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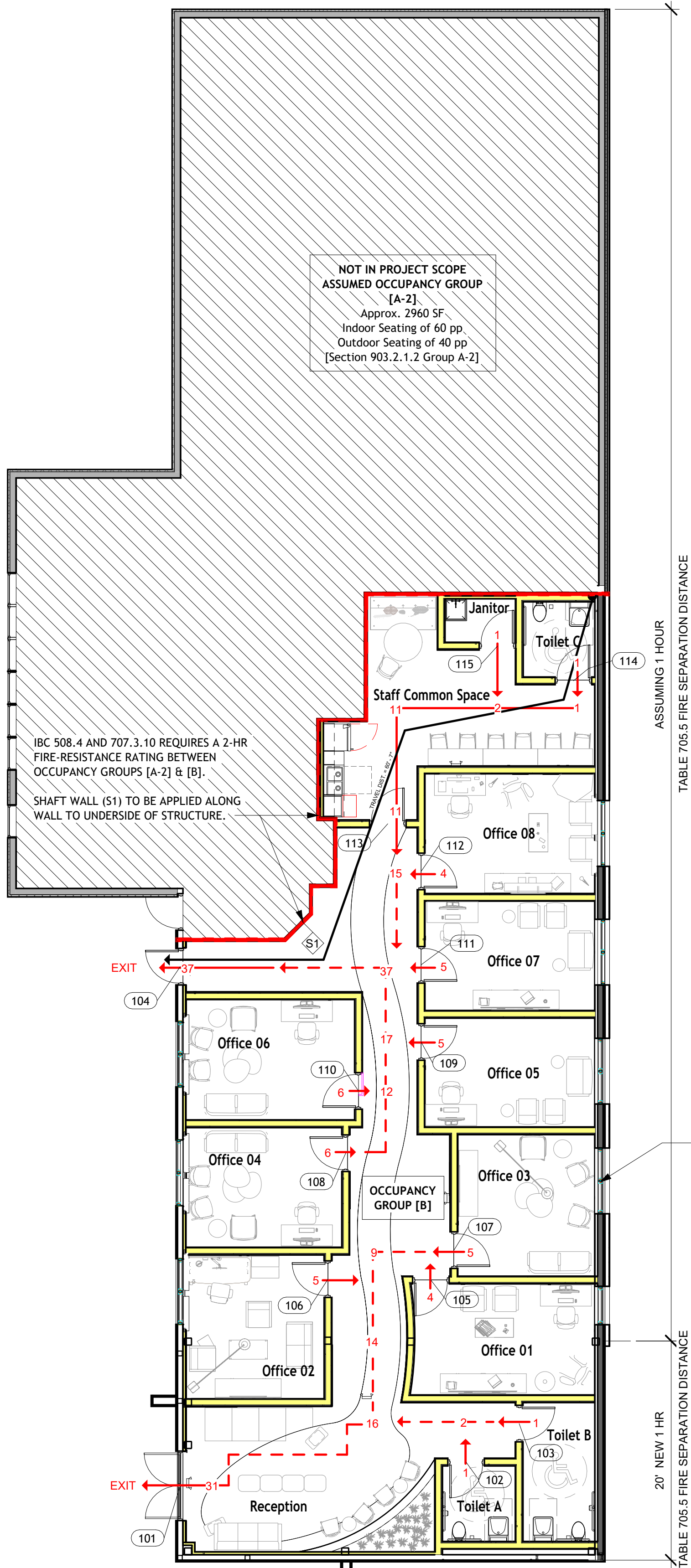
ADA Mounting Heights

Project number	24-140
Date	03.11.2026
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G003

Scale 3/16" = 1'-0"

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NOT IN PROJECT SCOPE
ASSUMED OCCUPANCY GROUP
[A-2]
Approx. 2960 SF
Indoor Seating of 60 pp
Outdoor Seating of 40 pp
[Section 903.2.1.2 Group A-2]

IBC 508.4 AND 707.3.10 REQUIRES A 2-HR
FIRE-RESISTANCE RATING BETWEEN
OCCUPANCY GROUPS [A-2] & [B].

SHAFT WALL (S1) TO BE APPLIED ALONG
WALL TO UNDERSIDE OF STRUCTURE.

TABLE 705.6 FIRE SEPARATION DISTANCE
ASSUMING 1 HOUR

TABLE 705.5 FIRE SEPARATION DISTANCE
20' NEW 1 HR

Egress Plan Room Occupancy Load				
Room Number	Name	Area	Occupant Load (Table 1004.5)	Occupant Load (Furniture Layout)
101	Reception	307 SF	307/15 = 21	15
102	Toilet A	46 SF	N/A = 1	1
103	Toilet B	83 SF	N/A = 1	1
104	Corridor	454 SF	N/A	N/A
105	Office 01	168 SF	168/150 = 2	4
106	Office 02	167 SF	167/150 = 2	5
107	Office 03	162 SF	162/150 = 2	5
108	Office 04	156 SF	156/150 = 2	6
109	Office 05	154 SF	154/150 = 2	5
110	Office 06	171 SF	171/150 = 2	6
111	Office 07	155 SF	155/150 = 2	5
112	Office 08	169 SF	169/150 = 2	4
113	Staff Common Space	287 SF	287/15 = 20	9
114	Toilet C	45 SF	N/A = 1	1
115	Janitor	26 SF	N/A = 1	1

EGRESS SUMMARY
NOTE: THE FURNITURE LAYOUT ESTABLISHES THAT OCCUPANT LOAD THAT WILL BE USED, RATHER THAN THE NUMBERS DERIVED FROM TABLE 1004.5.

Total Occupant Load: 68

TABLE 705.8 MAXIMUM AREA OF EXTERIOR WALL OPENINGS BASED ON
FIRE SEPARATION DISTANCE AND DEGREE OF OPENING PROTECTION
FOR A FIRE SEPARATION DISTANCE BETWEEN 5 TO LESS THAN 10 IN AN
UNPROTECTED, NON-SPRINKLERED BUILDING THE ALLOWABLE AREA IS
10%. THE ENTIRE WEST WALL IS 1,771.22 SF TOTAL. THE WINDOWS AT THE
PROPOSED PORTION OF GROUP B IS 165.03 SF. THE PERCENTAGE IS 9.3%.

Egress Plan Door Occupancy			
Door Number	Allowable Occupancy Load	Occupancy Load	
101	360	31	
102	180	1	
103	180	1	
104	180	37	
105	180	4	
106	180	5	
107	180	5	
108	180	6	
109	180	5	
110	180	6	
111	180	5	
112	180	4	
113	180	11	
114	180	1	
115	180	1	

② Code Diagram
3/64" = 1'-0"

INTERNATIONAL EXISTING BUILDING CODE (IEBC) - CHAPTER 3 - 301.3.2 WORK AREA COMPLIANCE METHOD	
IEBC - CHAPTER 6 CLASSIFICATION OF WORK	
☐	SECTION 602.1 - LEVEL 1 SCOPE LEVEL 1 ALTERATIONS INCLUDE THE REMOVAL AND REPLACEMENT OR THE COVERING OF EXISTING MATERIALS, ELEMENTS, EQUIPMENT OR FIXTURES USING NEW MATERIALS. ELEMENTS, EQUIPMENT OR FIXTURES THAT SERVE THE SAME PURPOSE.
☒	SECTION 603.1 - LEVEL 2 SCOPE LEVEL 2 ALTERATIONS INCLUDE THE ADDITION OR ELIMINATION OF ANY DOOR OR WINDOW, THE RECONFIGURATION OR EXTENSION OF ANY SYSTEM, OR THE INSTALLATION OF ANY ADDITIONAL EQUIPMENT, AND SHALL APPLY WHERE THE WORK AREA IS EQUAL TO OR LESS THAN 50 PERCENT OF THE BUILDING AREA.
☐	SECTION 604.1 - LEVEL 3 SCOPE LEVEL 3 ALTERATIONS APPLY WHERE THE WORK AREA EXCEEDS 50 PERCENT OF THE BUILDING AREA.
NOTE: ALL ALTERATIONS AND NEW CONSTRUCTION WITH-IN THIS BUILDING SHALL COMPLY WITH THE WORK AREA COMPLIANCE METHOD - ALTERATION LEVEL 2	

BUILDING CODE INFORMATION

2022 Connecticut State Building Code

2021 International Building Code
2017 ICC/ANSI A117.1 Accessible and Usable Buildings and Facilities
2021 International Existing Building Code
2021 International Plumbing Code
2021 International Mechanical Code
2021 International Energy Conservation Code
2020 NFPA 70, National Electrical Code,of the National Fire Protection Association
2021 International Residential Code of the International Code Council, Inc.

2022 State of Connecticut Building Code
Amendments to the 2021 International Building Code
Amendments to the ICC/ANSI A117.1 - 2017
Amendments to the 2021 International Existing Building Code
Amendments to the 2021 International Plumbing Code
Amendments to the 2021 International Mechanical Code
Amendments to the 2021 International Energy Conservation Code
Amendments to the 2020 NFPA 70, National Electrical Code
Amendments to the 2021 International Residential Code

PROJECT SCOPE

INTERIOR RENOVATION & CHANGE OF OCCUPANCY

PROJECT DESCRIPTION	
YEAR CONSTRUCTED	1970
FIRST FLOOR TOTAL SF:	2,879.25 SF (REAR PORTION)
CONSTRUCTION TYPE	II-B
MIXED CONSTRUCTION	NO
SPRINKLERS	NO

IBC CHAPTER 3 OCCUPANCY CLASSIFICATION AND USE		
OCCUPANCY USE (REAR)	ORIGINAL	PROPOSED
	GYM (GROUP A-3)	PROFESSIONAL SERVICES - THERAPY (GROUP B)
NOTE: THIS BUILDING IS A MIXED OCCUPANCY. WORK AREA IN THE REAR PORTION OF BUILDING ONLY. FRONT PORTION IS A RESTAURANT (A-2) TO REMAINS AS IS (NO CHANGE).		

ALLOWABLE HEIGHT	ALLOWABLE	INCREASE FOR SPRINKLERS	SHOW ON PLANS	CODE REFERENCE
CONSTRUCTION TYPE		II-B		TABLE 601
BUILDING HEIGHT	75	N/A	17' - 0 3/8"	TABLE 504.3
BUILDING HEIGHT IN STORIES	3	N/A	1	TABLE 504.4
BUILDING AREA PER FLOOR	23,000 SF	N/A	5,839.25 SF	TABLE 506.2

NOTE: THE TOTAL OCCUPIABLE BUILDING AREA FOR THE ENTIRE BUILDING IS APPROXIMATELY 5,839.25 SF. SQUARE FOOTAGE SHOWN ON THE CIVIL PLANS SHALL GOVERN IN THE EVENT OF A DISCREPANCY. REFER TO THE CIVIL PLANS FOR THE COMPLETE BUILDING LAYOUT AND FINAL TOTAL SQUARE FOOTAGE.

NOTE: ALLOWABLE AREA DETERMINATION (IBC SECTION 506.2).
THIS BUILDING CONTAINS MIXED OCCUPANCIES. THE FRONT PORTION OF THE BUILDING REMAINS A RESTAURANT (GROUP A-2) WITH NO CHANGE IN USE. THE REAR PORTION IS PROPOSED TO CHANGE TO PROFESSIONAL SERVICES/THERAPY (GROUP B). PER IBC TABLE 506.2, THE MAXIMUM ALLOWABLE AREA FOR A TYPE IIB BUILDING IS 9,500 SF FOR GROUP A-2 OCCUPANCY AND 23,000 SF FOR GROUP B OCCUPANCY.

BUILDING ELEMENT	FIRE SEPARATION DISTANCE (FT)	RATING		CODE REFERENCE
		REQ'D	PROVIDED	
PRIMARY STRUCTURAL FRAME		0	0	TABLE 601
BEARING WALLS				
EXTERIOR		0	0	
INTERIOR		0	0	
NON-BEARING WALLS & PARTITION				TABLE 705.5
INTERIOR		0	0	
FLOOR CONSTRUCTION & ASSOCIATED SECONDARY MEMBERS		0	0	
ROOF CONSTRUCTION & SECONDARY MEMBERS		0	0	
STRUCTURAL FRAME, INCLUDING COLUMNS, GIRDERS, TRUSSES		0	0	
EXTERIOR WALLS				
NORTH	$X \leq 30$	0	0	
EAST	$10 \leq X < 30$	0	0	
SOUTH	$X \geq 30$	0	0	
WEST	$5 \leq X < 10$	1	1	
SHAFT ENCLOSURE - EXIT		N/A		
SHAFT ENCLOSURE - OTHERS		N/A		
SMOKE BARRIER SEPARATIONS		N/A		
TENANT SPARATION		2	0	
INCIDENTAL USE SEPARATION		0	0	

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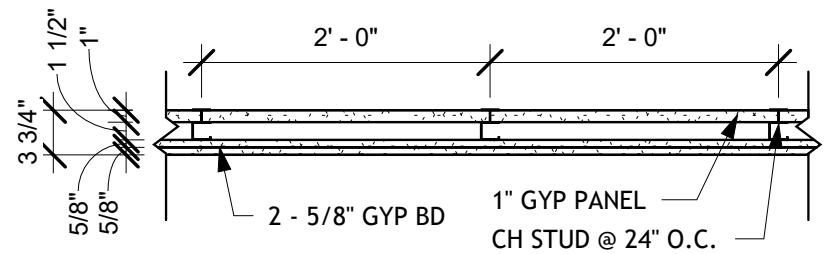
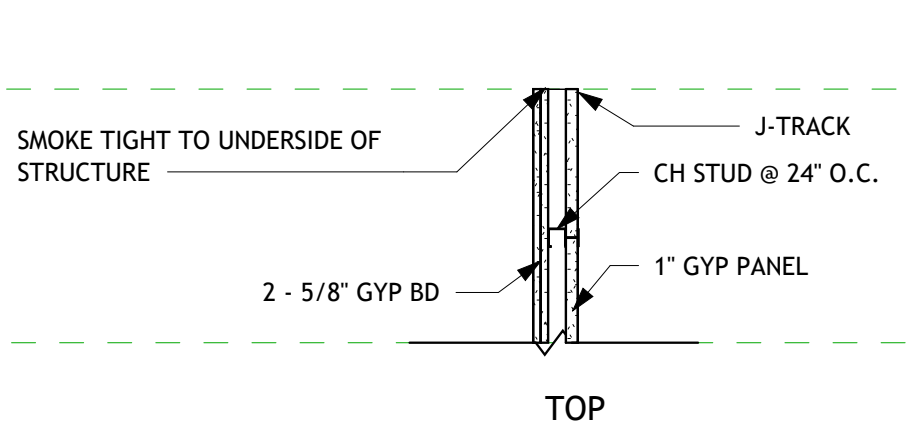
Egress Plan & Code Sheet

Project number	24-140
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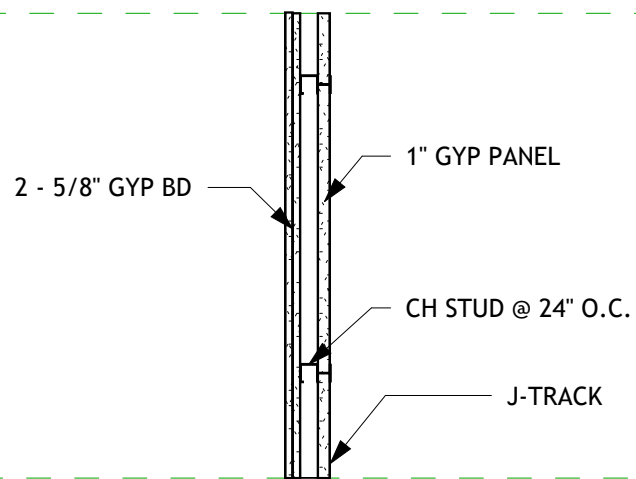
G005

Scale As indicated

WALLS



PLAN

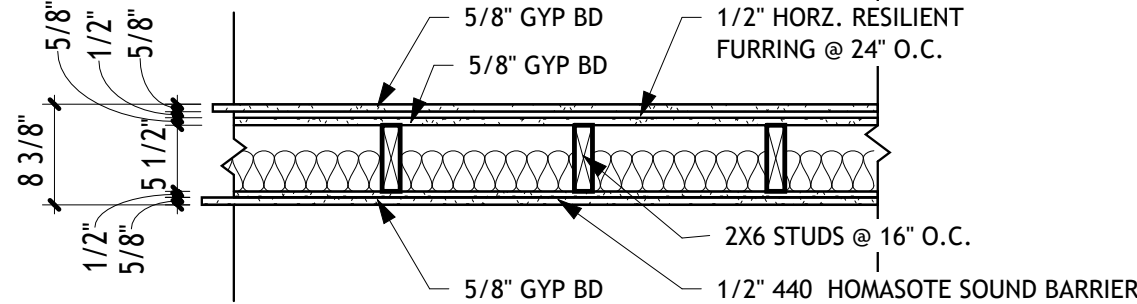
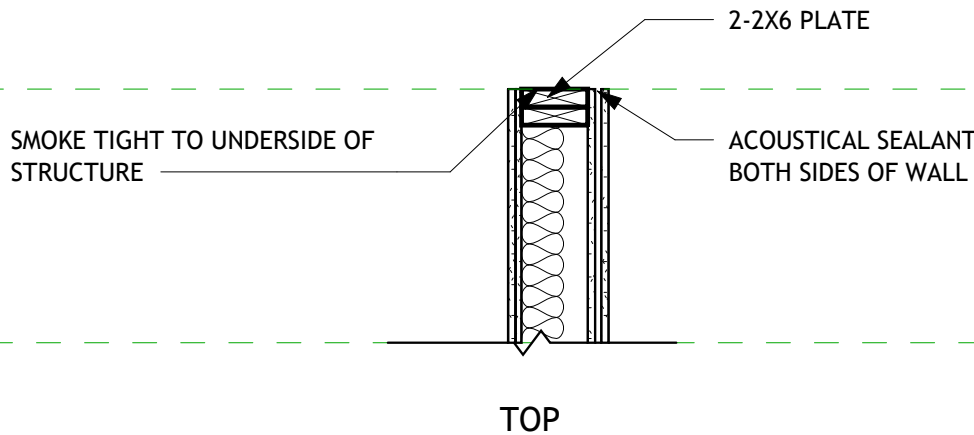


SECTION

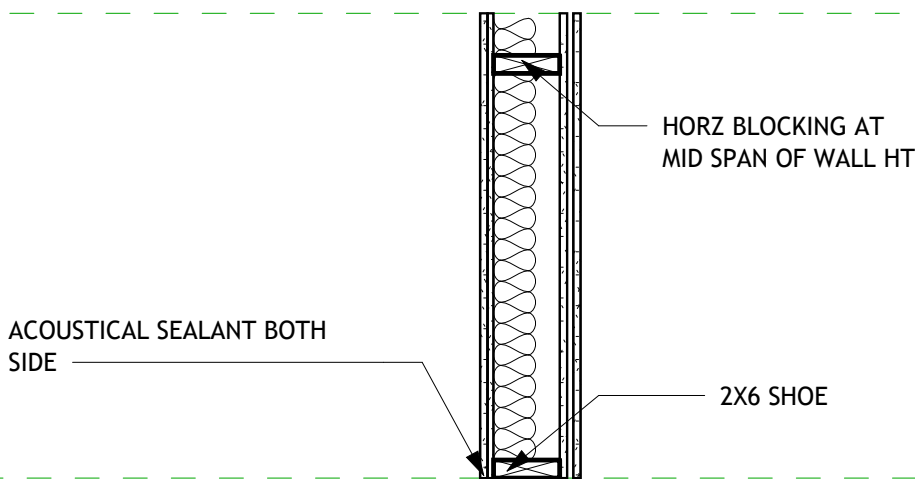
S1

SHAFT WALL

UL U415 UL System B	
FIRE RATING:	2 HOUR
STC RATING:	37
SOUND TEST:	USG-170526
SYSTEM THICKNESS:	3-3/4"
LOCATION:	INTERIOR
FRAMING TYPE:	STEEL STUD



PLAN

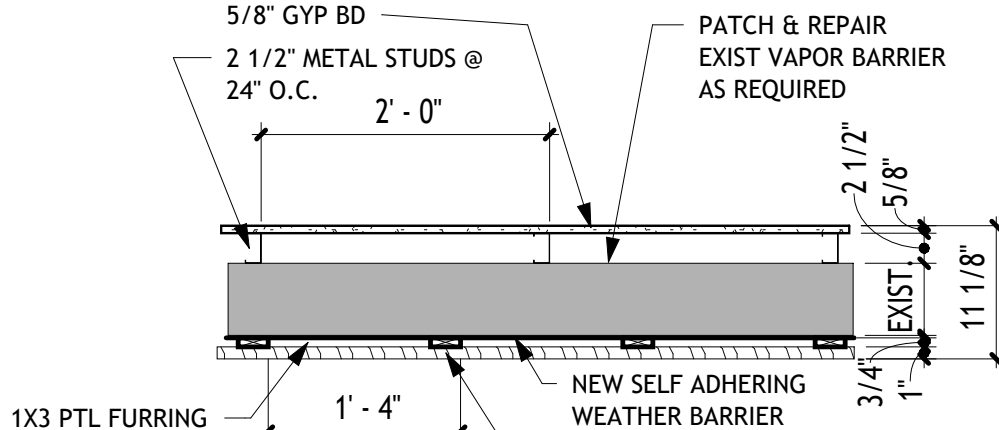
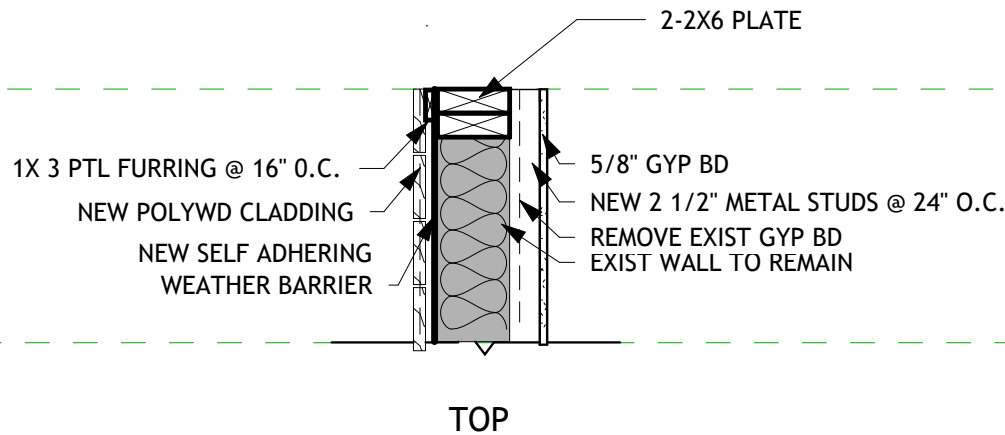


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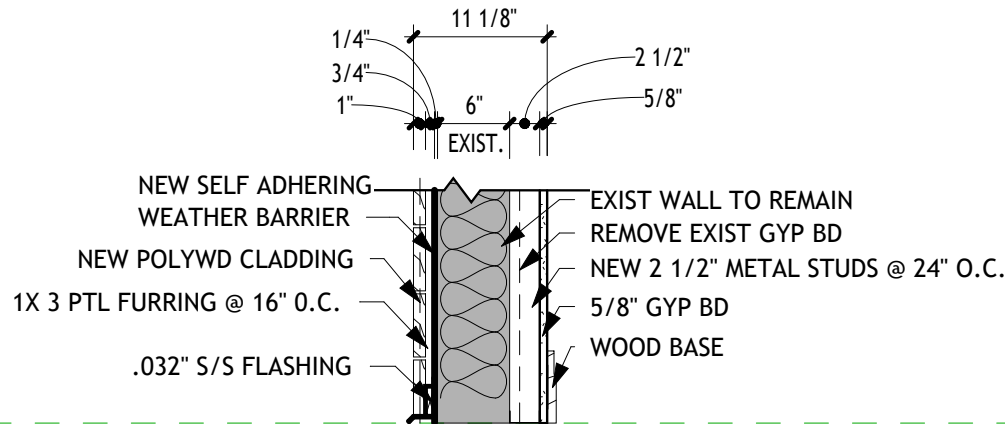
P0

TYPICAL INTERIOR WALL

DESIGN NO. U301	
FIRE RATING:	Non Rated
STC RATING:	Min STC 60
UL TEST:	U301
SYSTEM THICKNESS:	8 3/8"
LOCATION:	INTERIOR
FRAMING TYPE:	WOOD STUD



PLAN



SECTION

EX

EXTERIOR FRAME SIDING WALL

DESIGN NO.	
SOUND TEST:	N/A
SYSTEM THICKNESS:	EXIST
LOCATION:	EXTERIOR
FRAMING TYPE:	WOOD / METAL STUD

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Partition Details

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	Designer

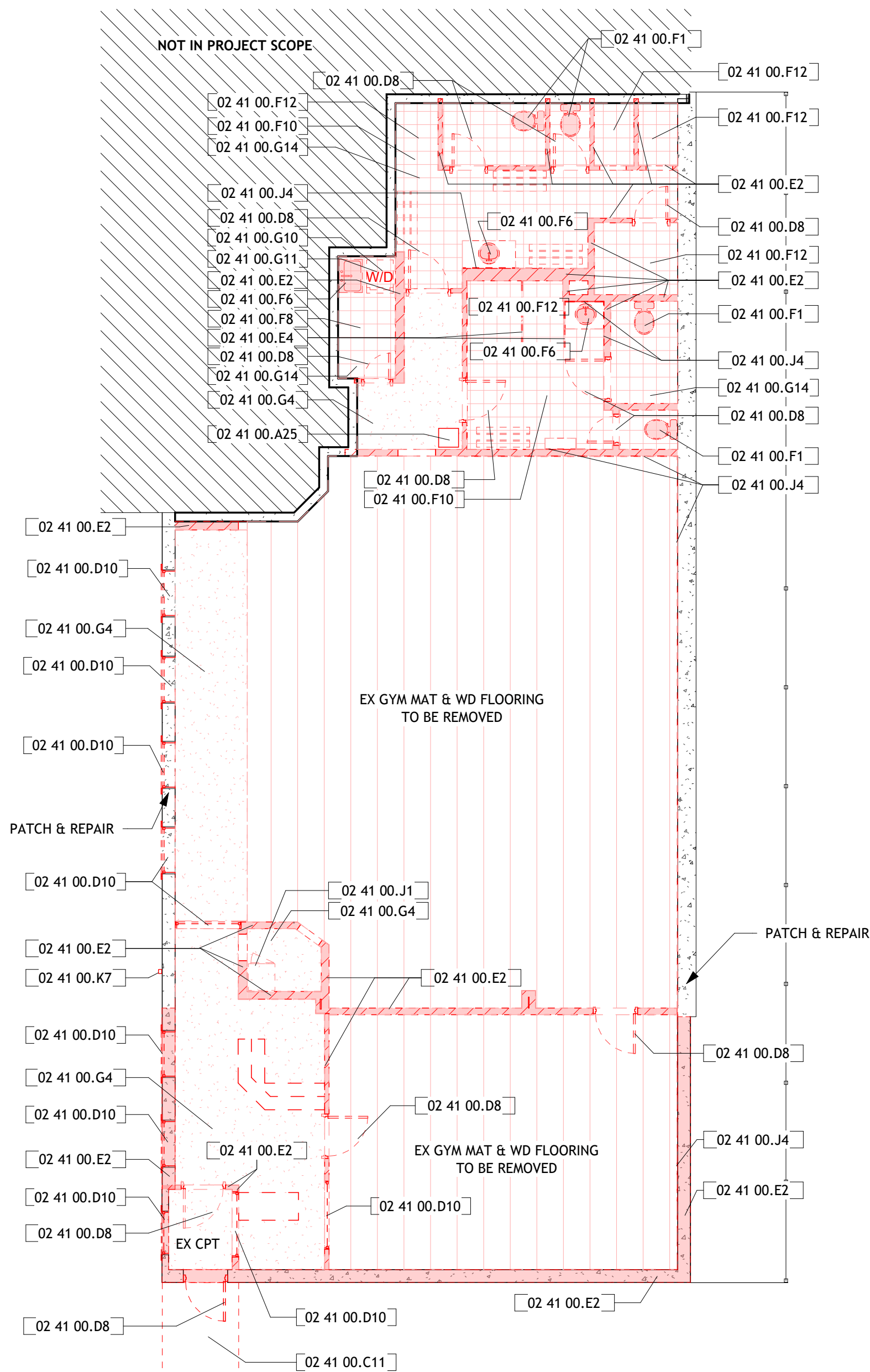
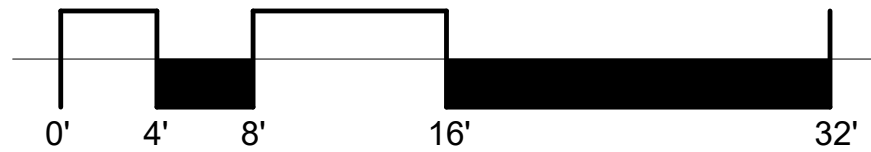
G006

Scale 3/4" = 1'-0"

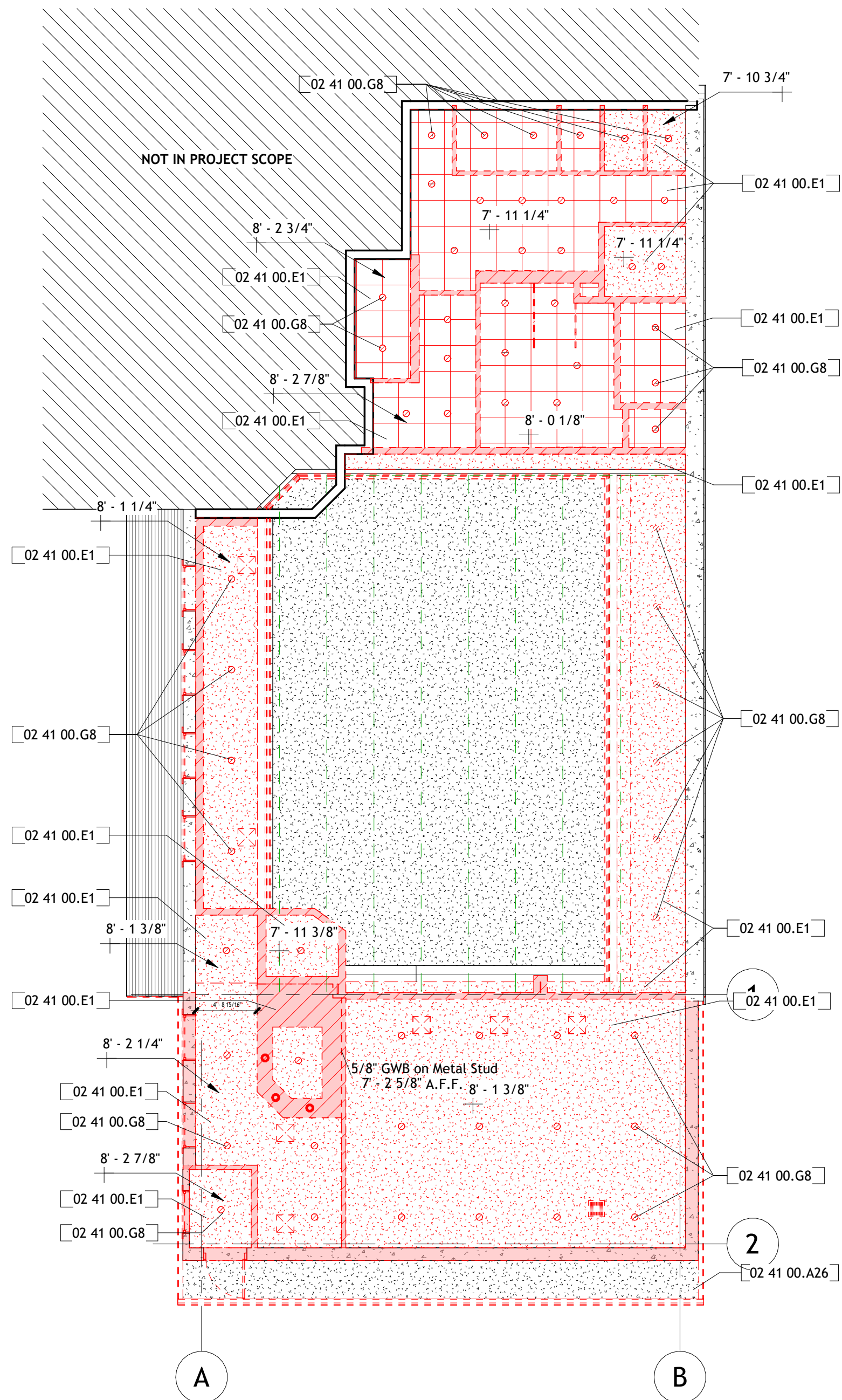
1. ALL EXISTING EXTERIOR DOORS AND WINDOWS ARE SHOWN IN APPROXIMATE LOCATIONS. CONTRACTORS MUST VERIFY ALL EXISTING DOOR AND WINDOW LOCATIONS AND REPORT ANY DISCREPANCIES TO THE ARCHITECT PRIOR TO COMMENCEMENT OF WORK.
2. ALL EXISTING CEILING LIGHTING FIXTURES ARE TO BE ASSUMED AS OPERATIONAL AND SHALL BE REMOVED AS DIRECTED BY THE OWNERS. CONTRACTORS MUST VERIFY THE QUANTITY AND LOCATIONS OF ALL EXISTING CEILING LIGHTING FIXTURES. ANY DISCREPANCIES FOUND MUST BE REPORTED TO THE ARCHITECT.
3. IF ANY DISCREPANCY IS FOUND IN ANY PORTION OF THIS SET OF PLANS TO THE EXISTING BUILDING AND THE NEW CONSTRUCTION WORK. CONTRACTOR SHALL REPORT ALL AND ANY DISCREPANCIES.
4. ALL EXISTING FF&E SHALL BE REMOVED AS DIRECTED BY THE OWNERS.
5. BEFORE DEMOLITION, CONTRACTORS MUST CONFIRM IN FIELD FOR ANY STRUCTURAL SUPPORTS OR DUCK CHASES THAT MAY RESIDE IN THE WALL. ANY DISCREPANCIES FOUND MUST BE REPORTED TO THE ARCHITECT.

Keynote Legend	
Key Value	Keynote Text
02 41 00.A25	Remove Exist Lockers & Base
02 41 00.A26	Remove Exist Roof Assembly
02 41 00.C11	Concrete Ramp To Be Removed
02 41 00.D08	Door And Frame To Be Removed
02 41 00.D10	Window And Frame To Be Removed
02 41 00.E1	Ceiling To Be Removed
02 41 00.E2	Wall To Be Removed
02 41 00.E4	Partition To Be Removed
02 41 00.F1	Toilet To Be Removed
02 41 00.F6	Sink & Fixtures To Be Removed
02 41 00.F8	Shelves To Be Removed
02 41 00.F10	Toilet Accessories To Be Removed
02 41 00.F12	Shower To Be Removed
02 41 00.G4	Carpet To Be Removed
02 41 00.G8	Light Fixture To Be Removed
02 41 00.G10	Washing Machine To Be Removed
02 41 00.G11	Dryer To Be Removed
02 41 00.G14	Ceramic Tile to Be Removed
02 41 00.J1	Refrigerator To Be Removed
02 41 00.J4	Mirror To Be Removed
02 41 00.K7	Rain Water Leader To Be Removed

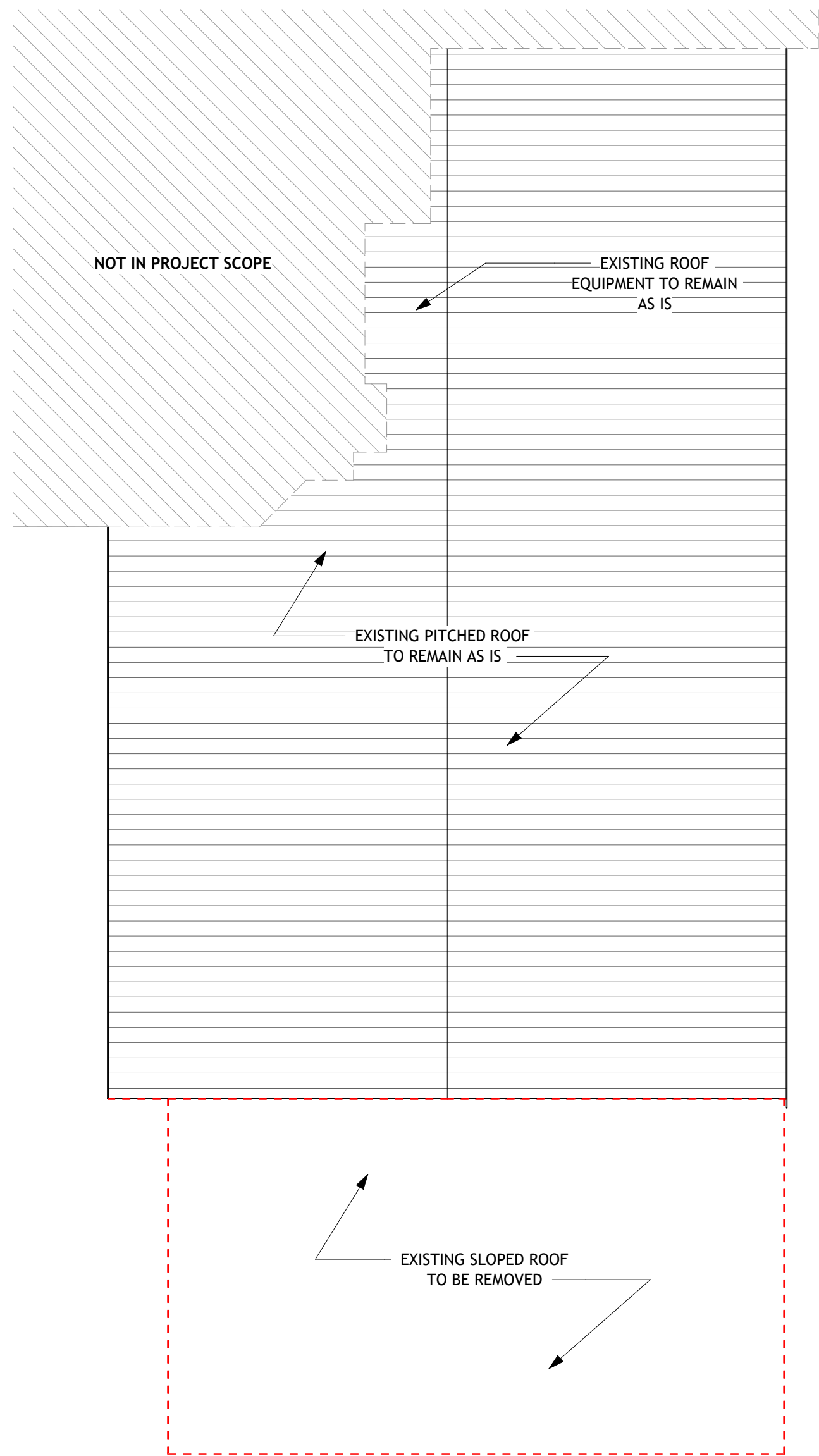
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1 First Floor Architectural Plan - DEMO
1/8" = 1'-0"



First Floor Architectural Ceiling Plan -
 DEMO
 1/8" = 1'-0"



3 Roof Plan
1/8" = 1'-0"

Wellness Center

1849 Post Road East Westport CT

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Milford, CT 06460
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f: 203.583.3557
www.wilesarch.com

[illegible]

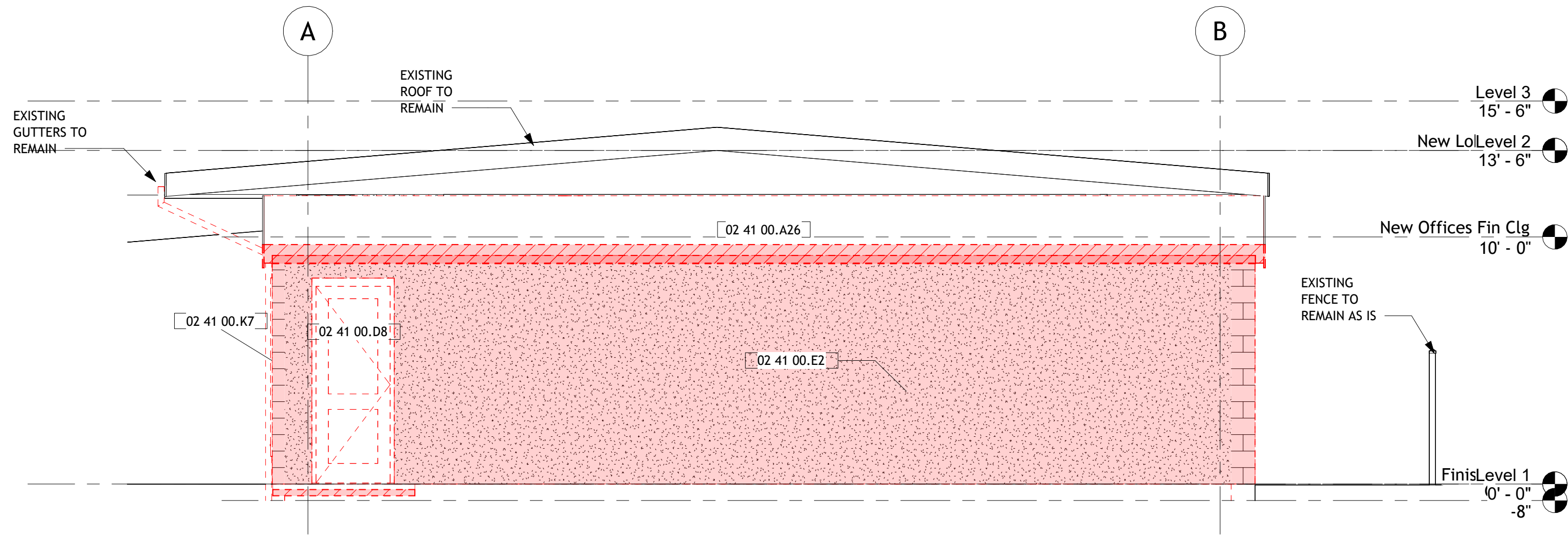
Demolition Plans

Project number	24-140
Date	03.11.2026
Drawn by	Author
Checked by	Checker
	Designer

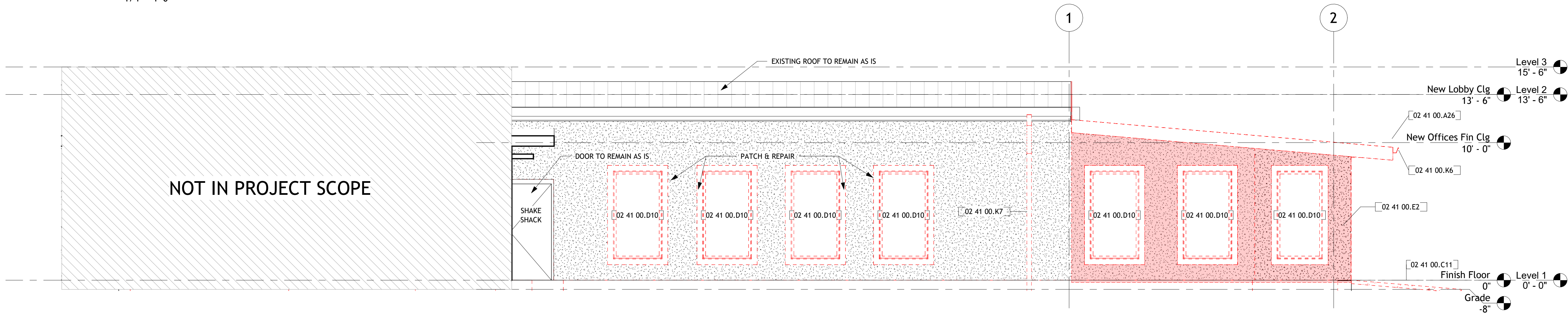
D101

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

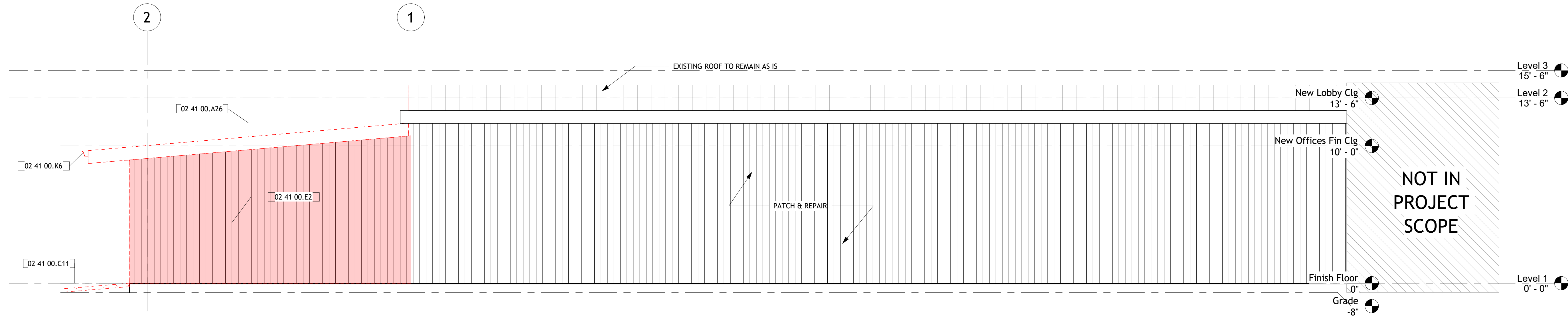
C:\Users\georgj\Documents\Wellness Center- 2026 _daniel\aNW2P6.rvt



2 North Architectural Building Elevation
1/4" = 1'-0"



1 East Architectural Building Elevation
1/4" = 1'-0"



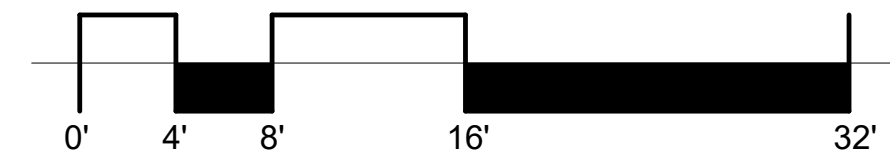
3 Existing - West
1/4" = 1'-0"

GENERAL DEMOLITION - NOTES

1. ALL EXISTING EXTERIOR DOORS AND WINDOWS ARE SHOWN IN APPROXIMATE LOCATIONS. CONTRACTORS MUST VERIFY ALL EXISTING DOOR AND WINDOW LOCATIONS AND REPORT ANY DISCREPANCIES TO THE ARCHITECT PRIOR TO COMMENCEMENT OF WORK.
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Keynote Legend

Key Value	Keynote Text
02 41 00.A26	Remove Exist Roof Assembly
02 41 00.C11	Concrete Ramp To Be Removed
02 41 00.D8	Door And Frame To Be Removed
02 41 00.D10	Window And Frame To Be Removed
02 41 00.E2	Wall To Be Removed
02 41 00.K6	Gutter To Be Removed
02 41 00.K7	Rain Water Leader To Be Removed



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No.	Description	Date

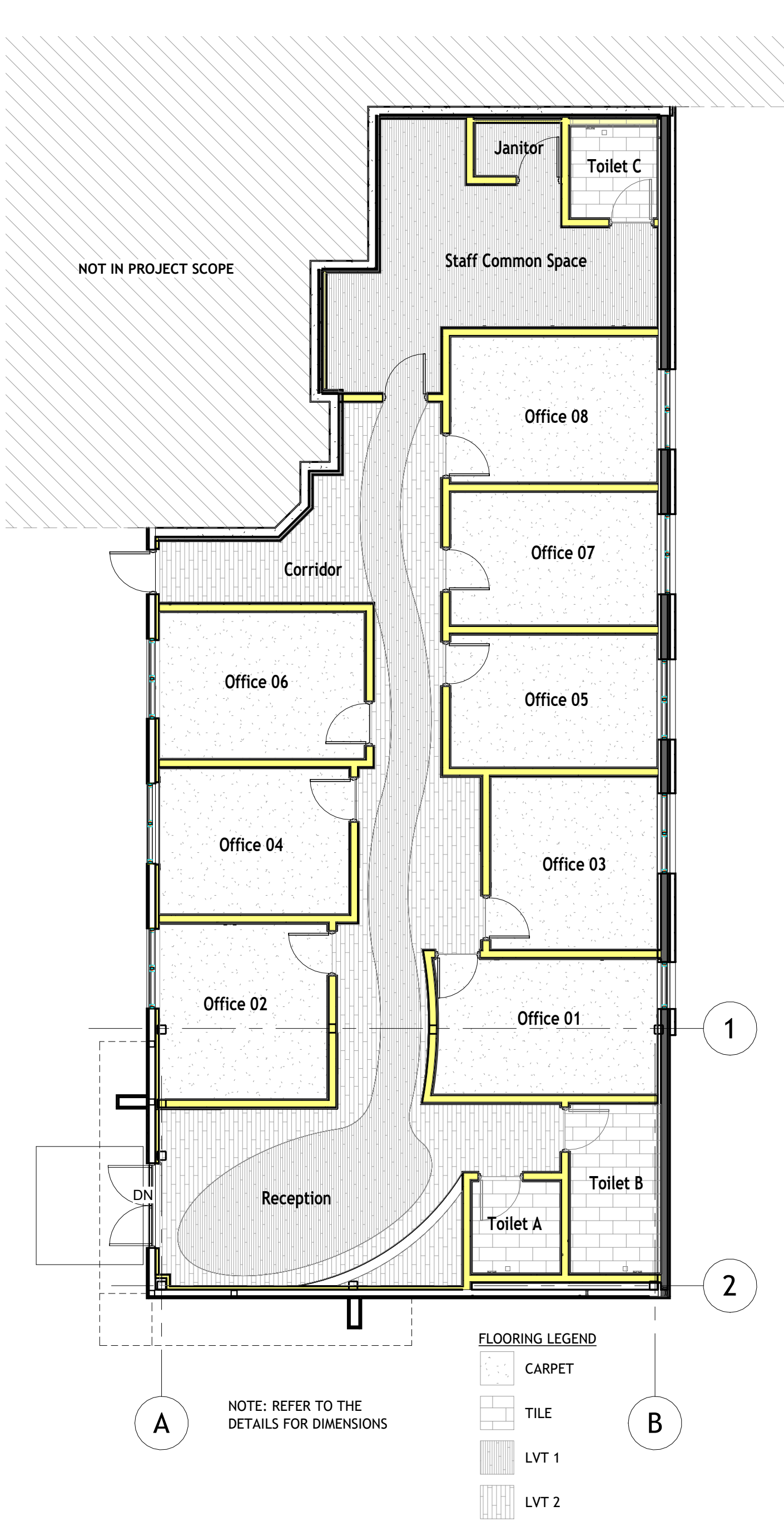
Demolition Exterior Elevations

Project number	24-140
Date	03.11.2026
Drawn by	Author
Checked by	Checker
	Designer

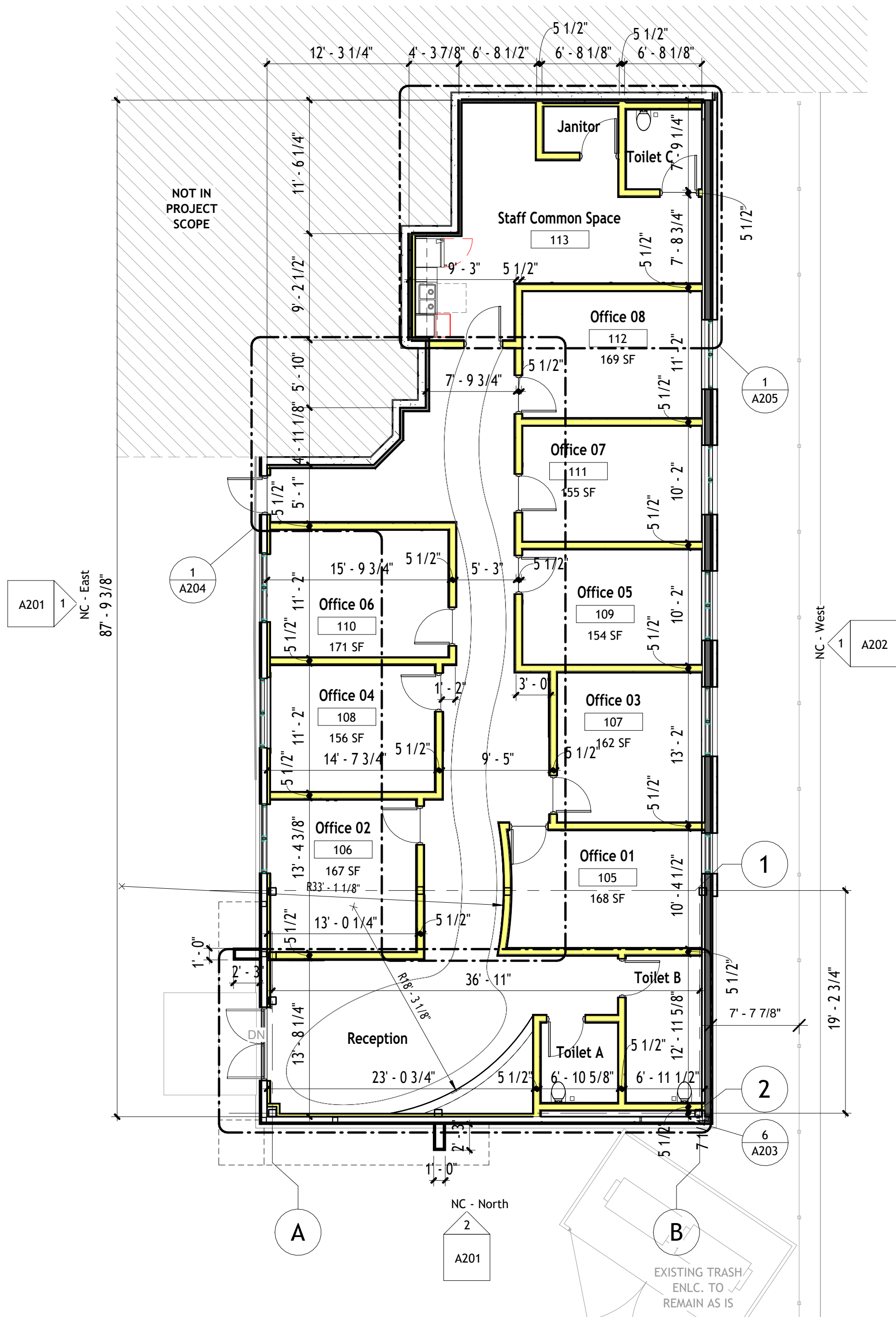
D201

Scale 1/4" = 1'-0"

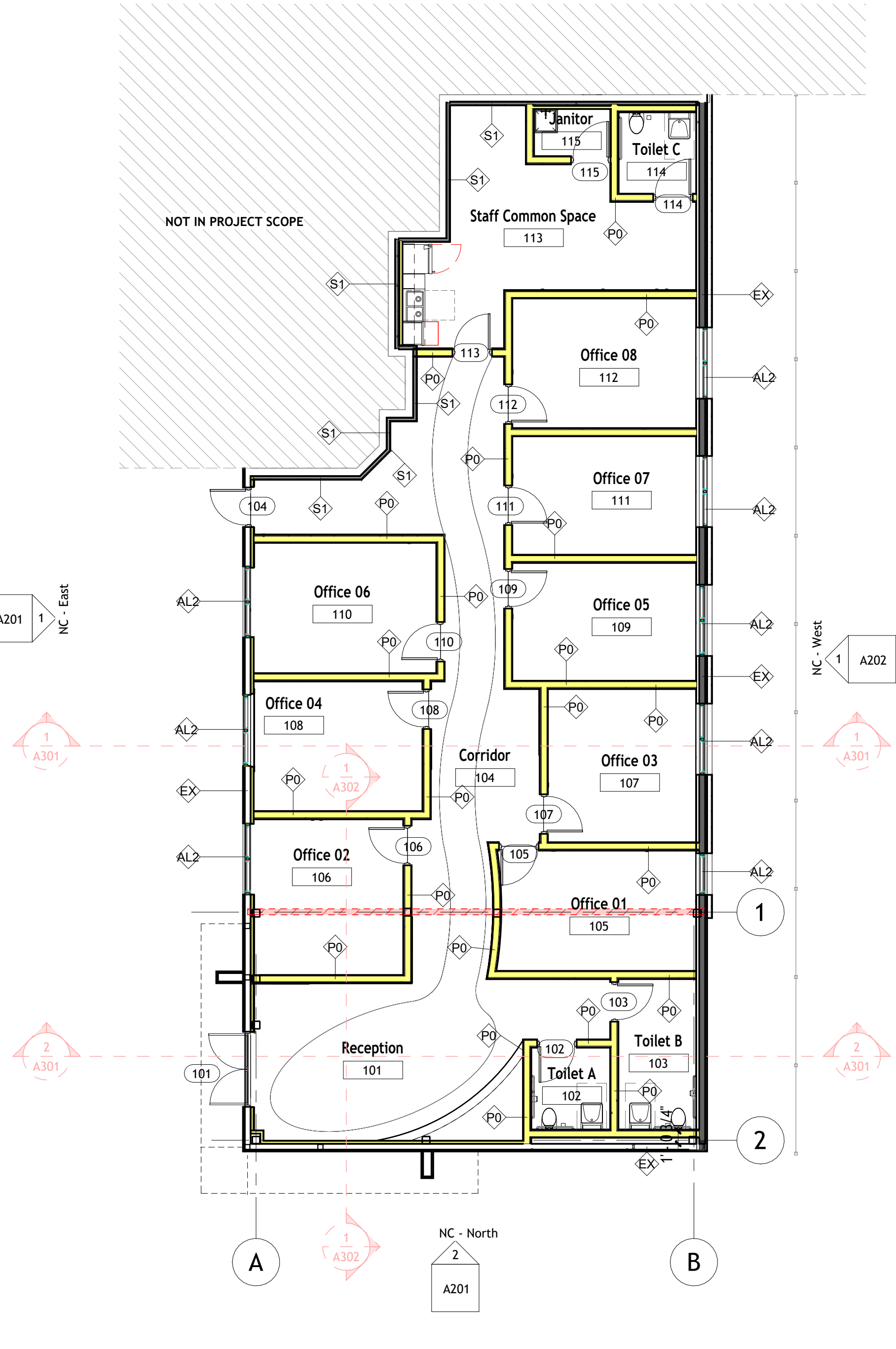
PRINTED: 3/3/2026 4:09:31 PM



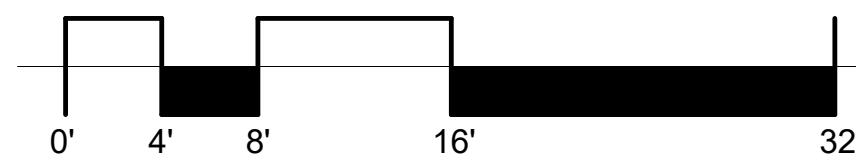
3 Floor Finish Plan
1/8" = 1'-0"



2 New Construction Dimension Plan
1/8" = 1'-0"



1 New Construction Plan
1/8" = 1'-0"



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f: 203.583.3557
www.wilesarch.com

No.	Description	Date

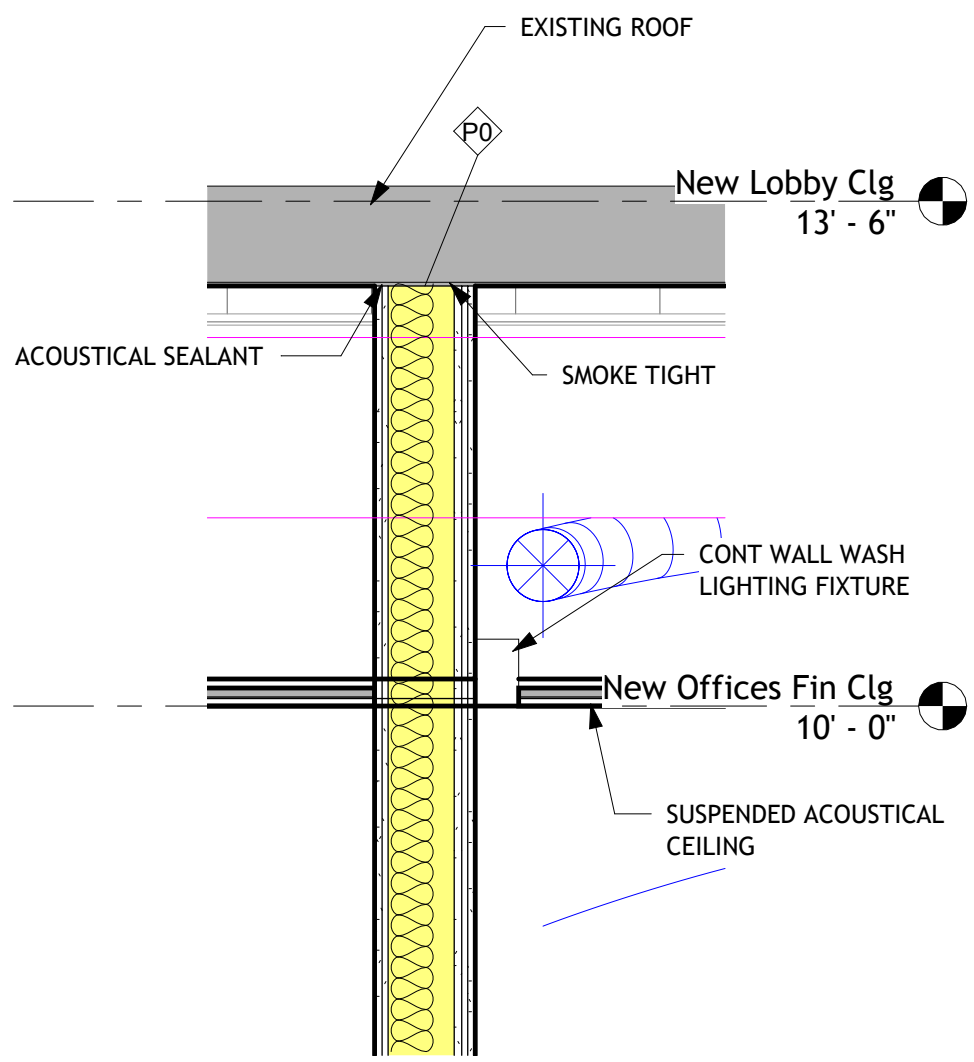
Floor Plans

Project number	24-140
Date	03.11.2026
Drawn by	Author
Checked by	Checker
	Designer

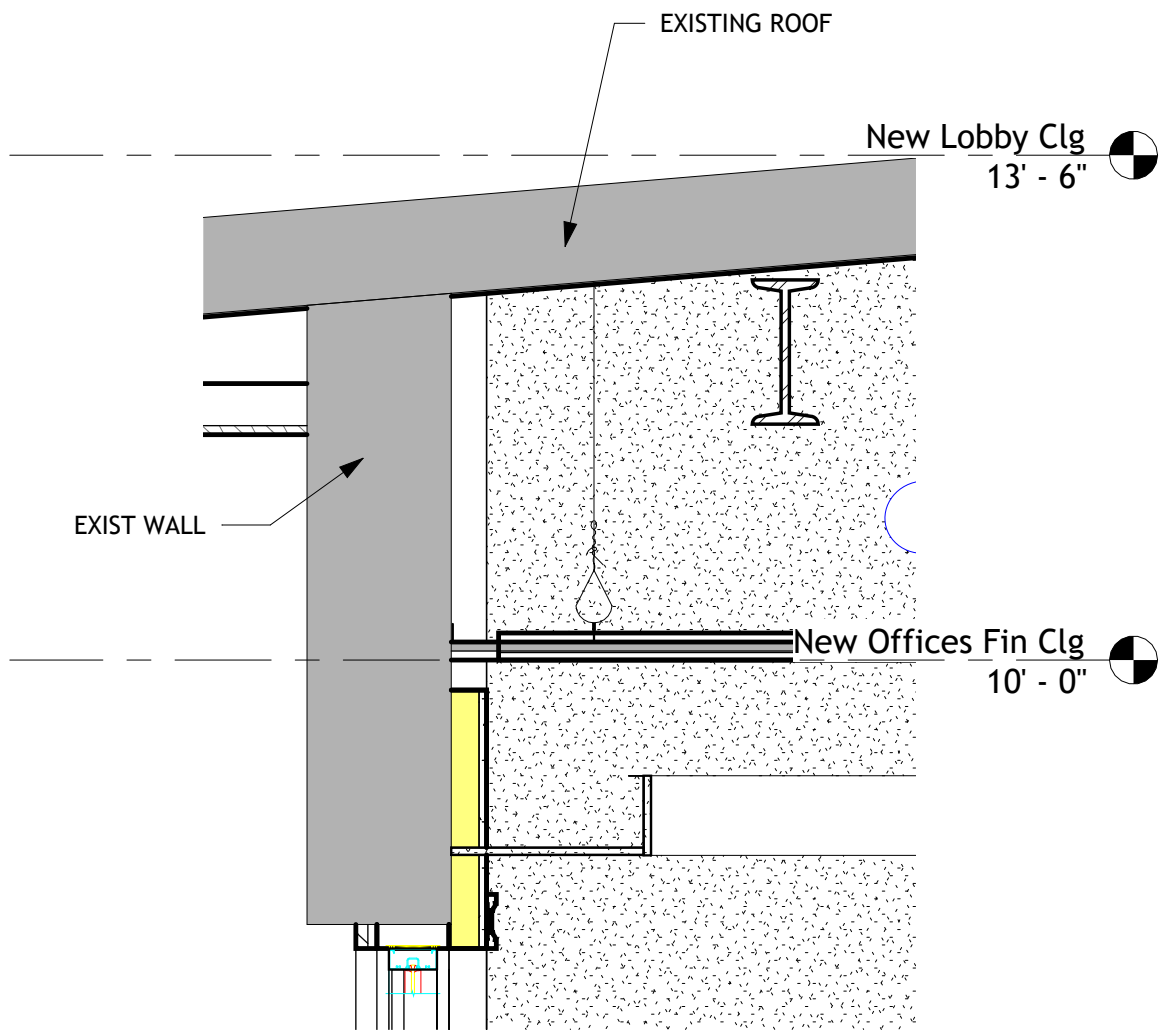
A101

Scale 1/8" = 1'-0"

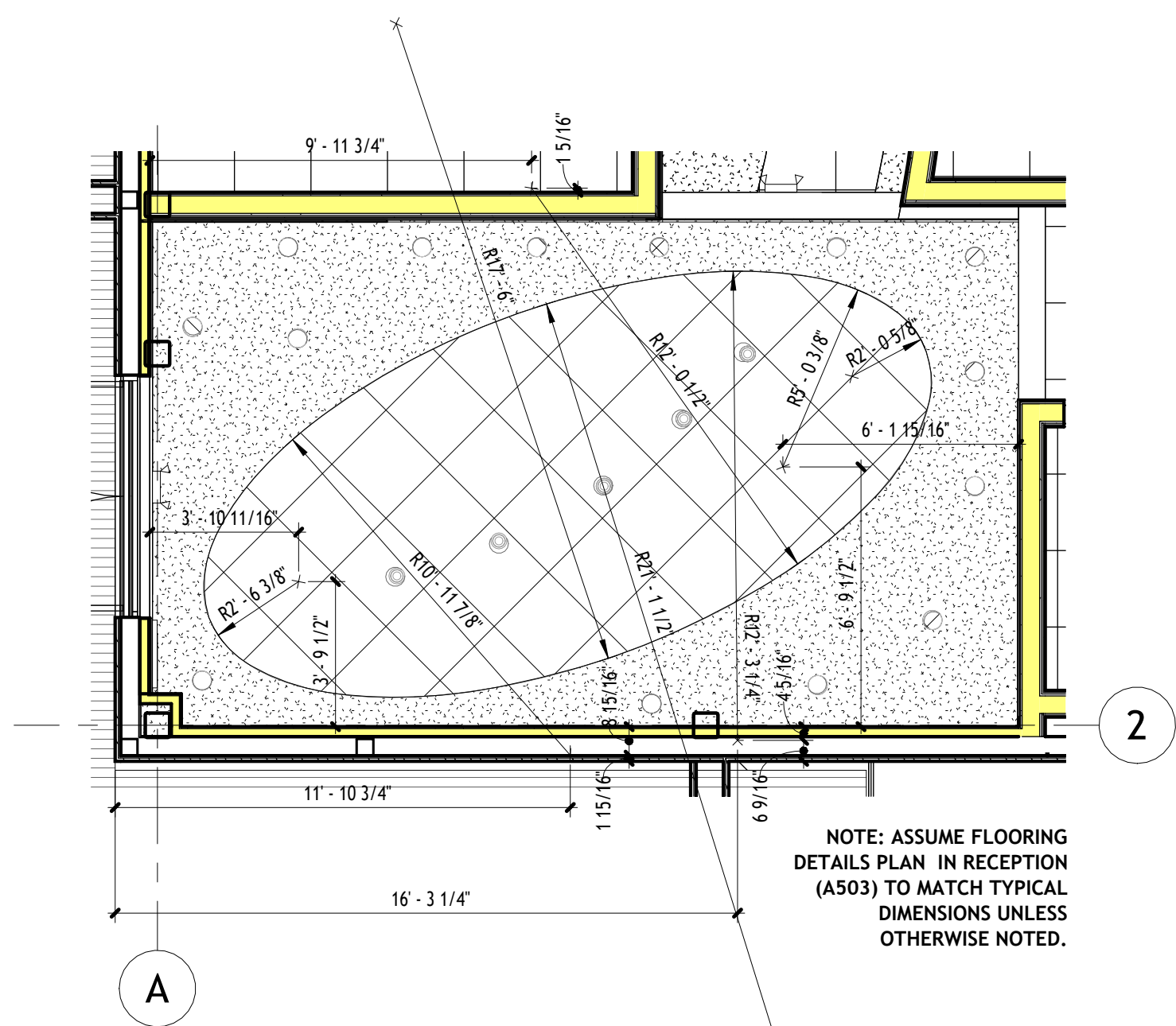
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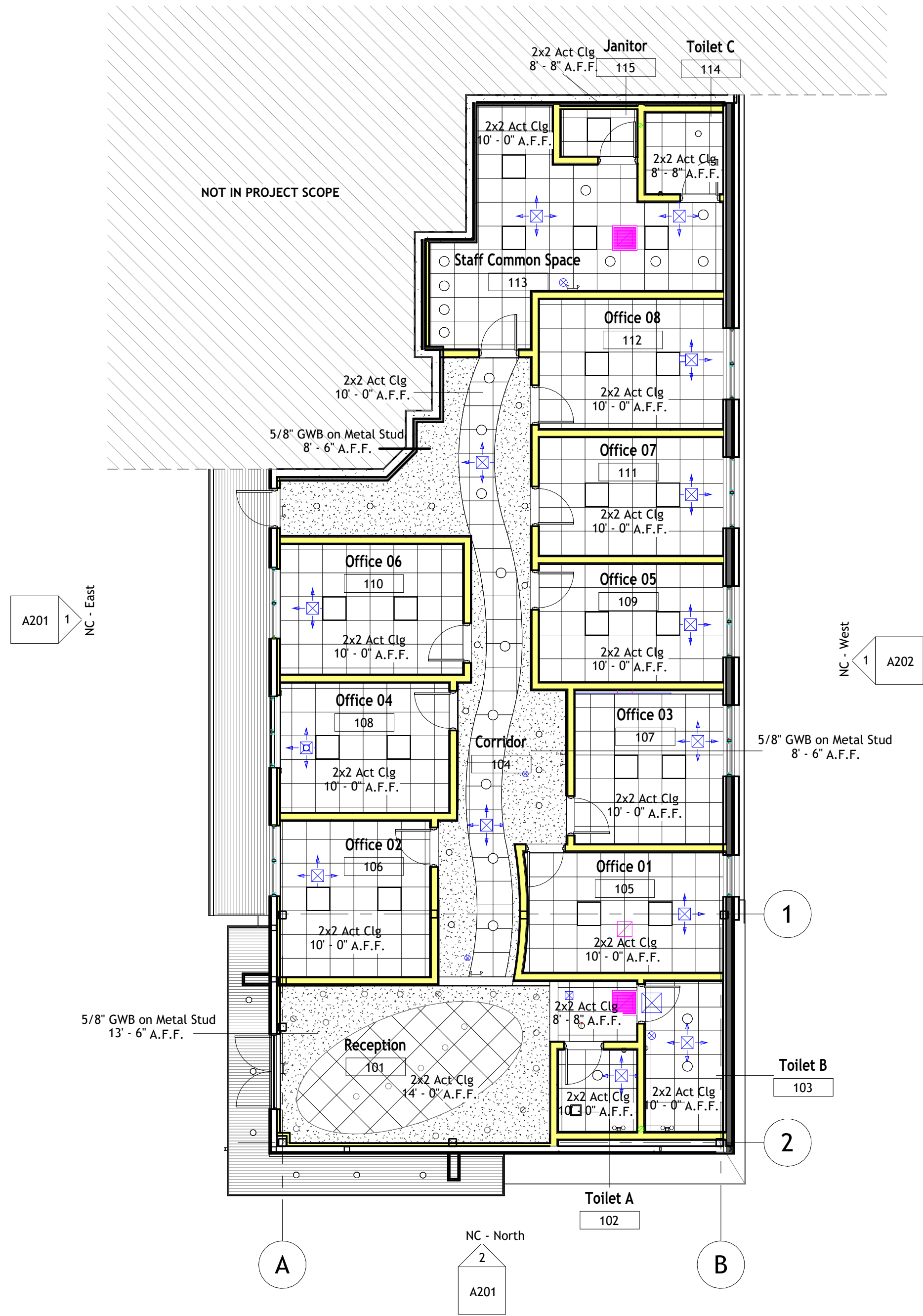
4 Wall Wash Lighting Option
3/4" = 1'-0"



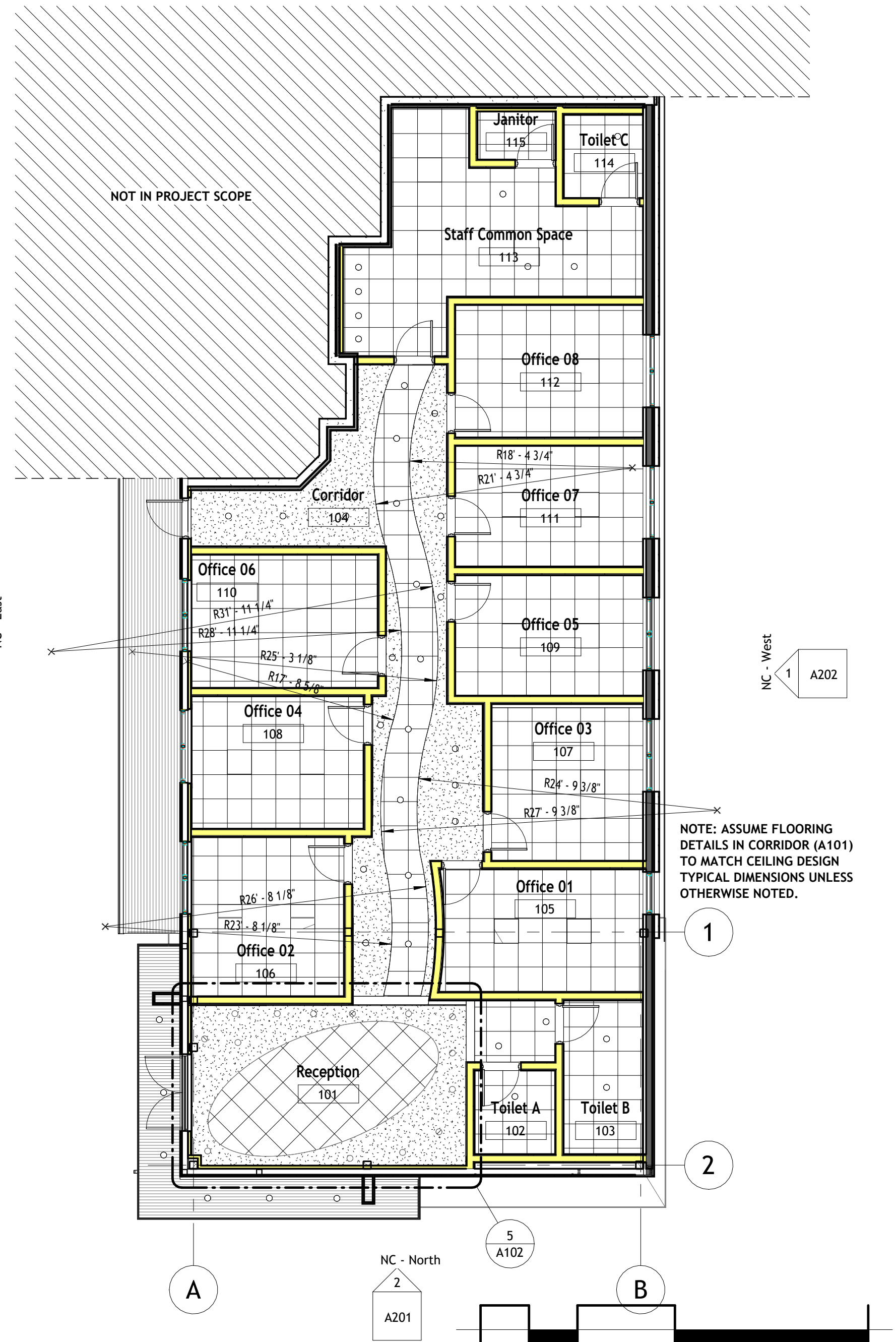
3 Cove Lighting Option
3/4" = 1'-0"



5 NEW CONSTRUCTION RCP DIM. - Reception
1/4" = 1'-0"



1 New Construction Reflected Ceiling Plan
1/8" = 1'-0"



2 New Construction Reflected Ceiling Plan
1/8" = 1'-0"

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No.	Description	Date

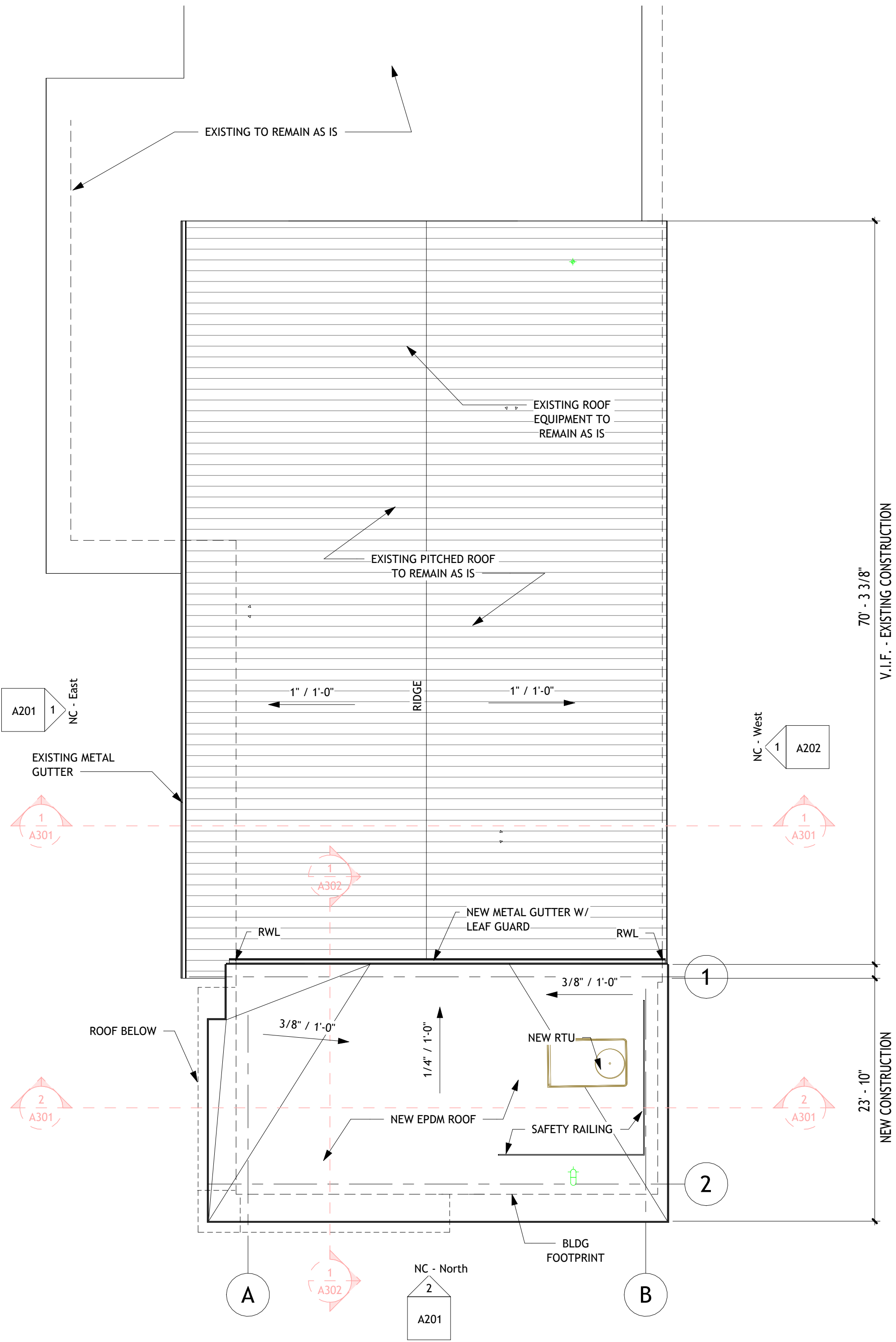
Reflected Ceiling Plan

Project number	24-140
Date	03.11.2026
Drawn by	Author
Checked by	Checker
	Designer

A102

Scale As indicated

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1 Roof Plan
1/8" = 1'-0"

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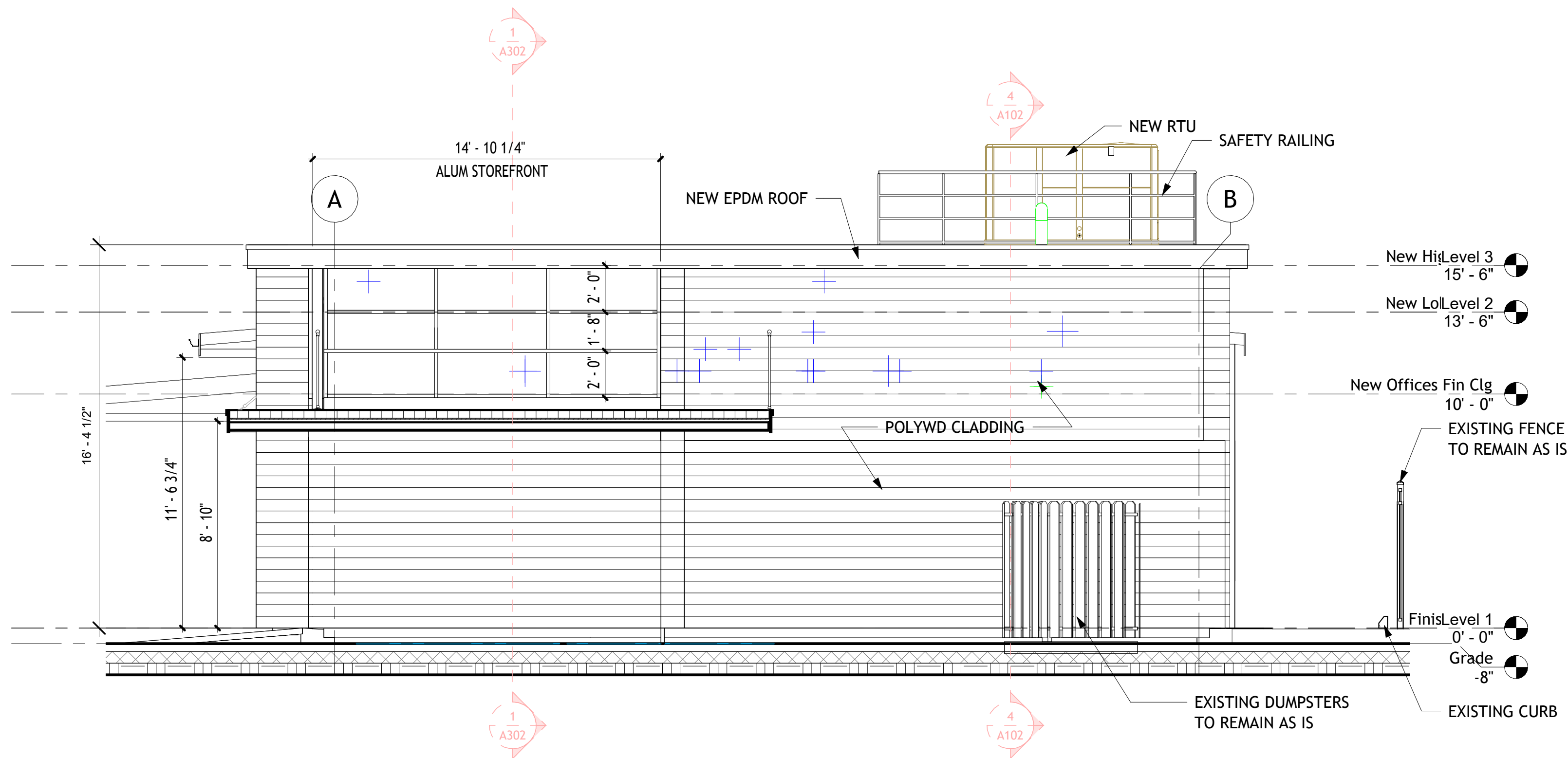
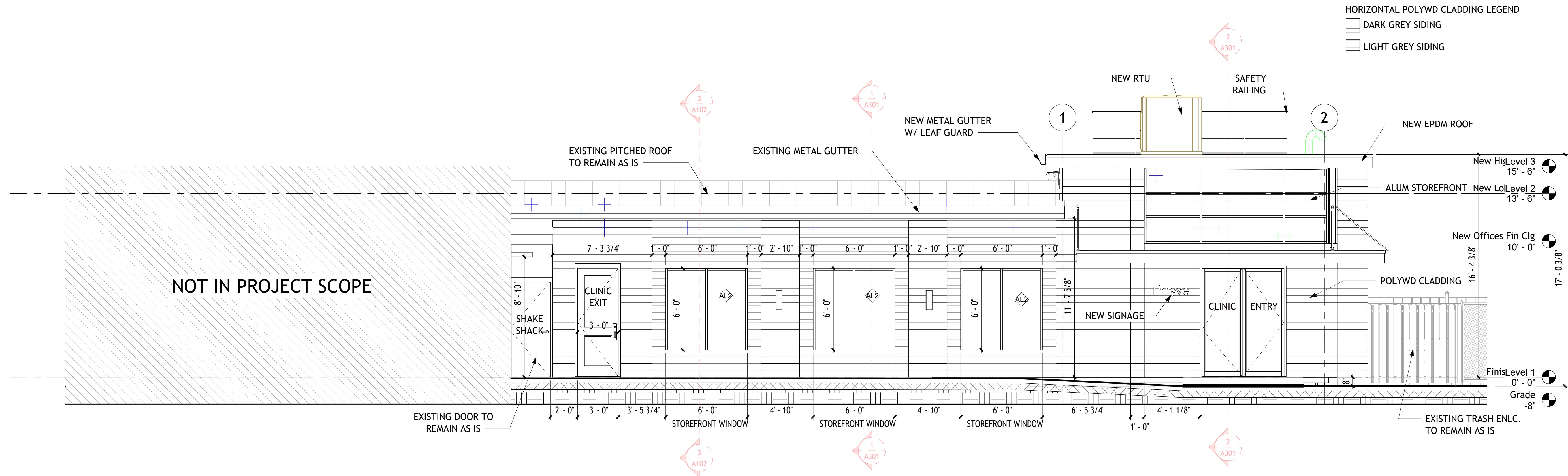
No.	Description	Date

Roof Plan

Project number	24-140
Date	03.11.2026
Drawn by	Author
Checked by	Checker
	Designer

A103

Scale 1/8" = 1'-0"



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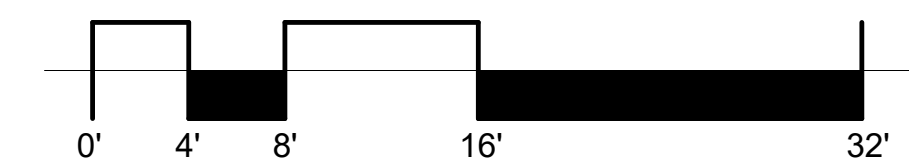
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Building Elevations

Project number	24-140
Date	03.11.2026
Drawn by	Author
Checked by	Checker
	Designer

A201

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



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Level 1
0' - 0"

	DARK GREY SIDING
--	------------------

EXISTING PITCHED ROOF
____ _ TO REMAIN AS IS

NEW METAL GUTTER
W/ LEAF GUARD

NEW RTU



2

SAFETY RAILING

NEW EPDM ROOF

 New High Roof

 New Lobby Clg
121 611

 New Offices Fin Clg
10' - 0"

 **Finish Floor**

1 NC - West
1/4" = 1'-0"

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Designer

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

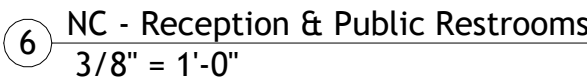
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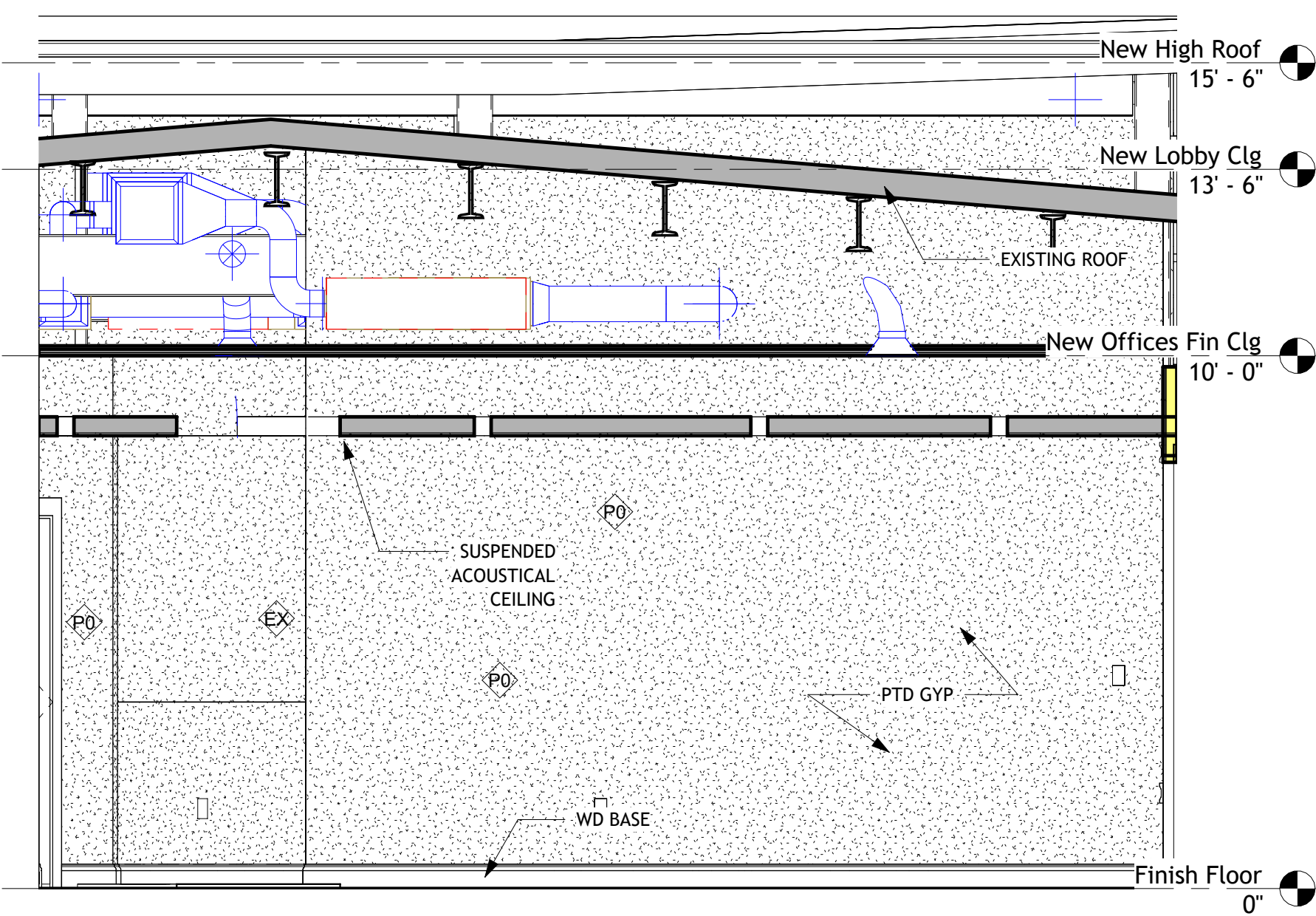
Project number	24-140
Date	03.11.2026
Drawn by	Author
Checked by	Checker
	Designer

Scale $3/8" = 1'-0"$

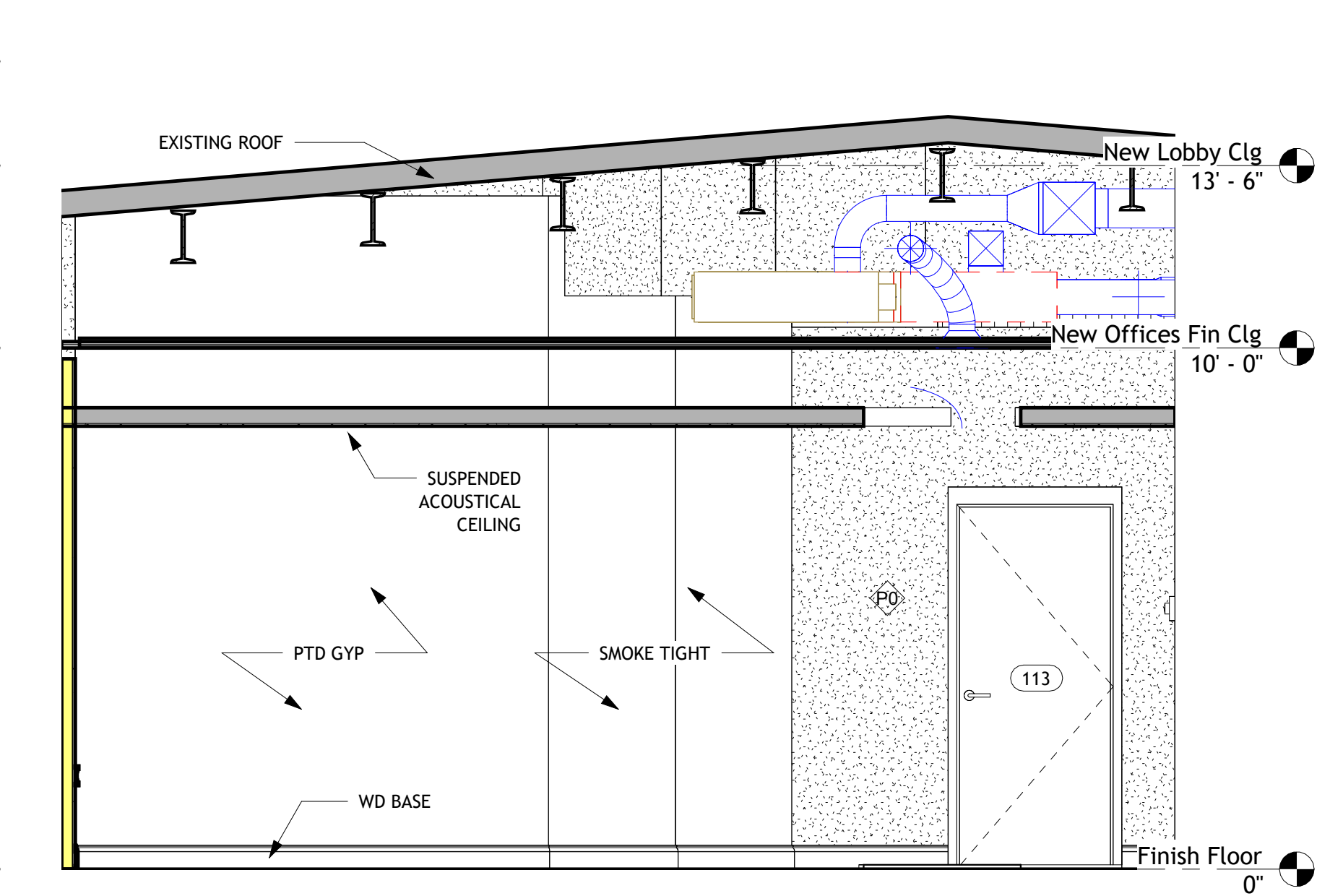


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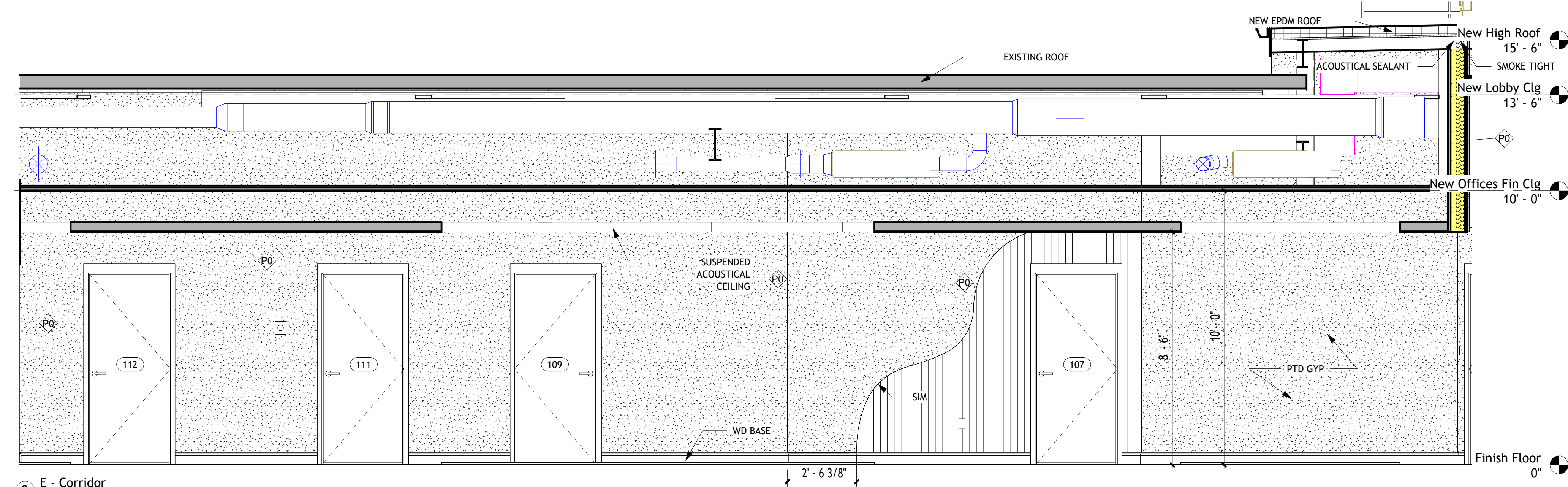
C:\Users\georg\Documents\Documents\Wellness Center-2026_daniellaNW2P6.rvt



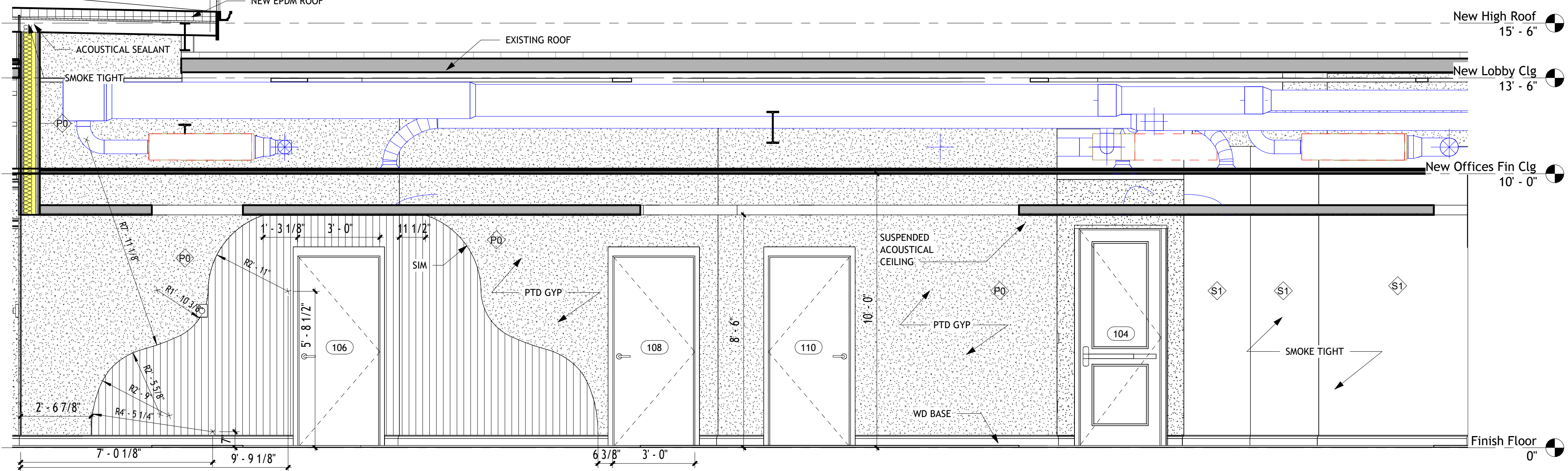
4 S - Corridor
3/8" = 1'-0"



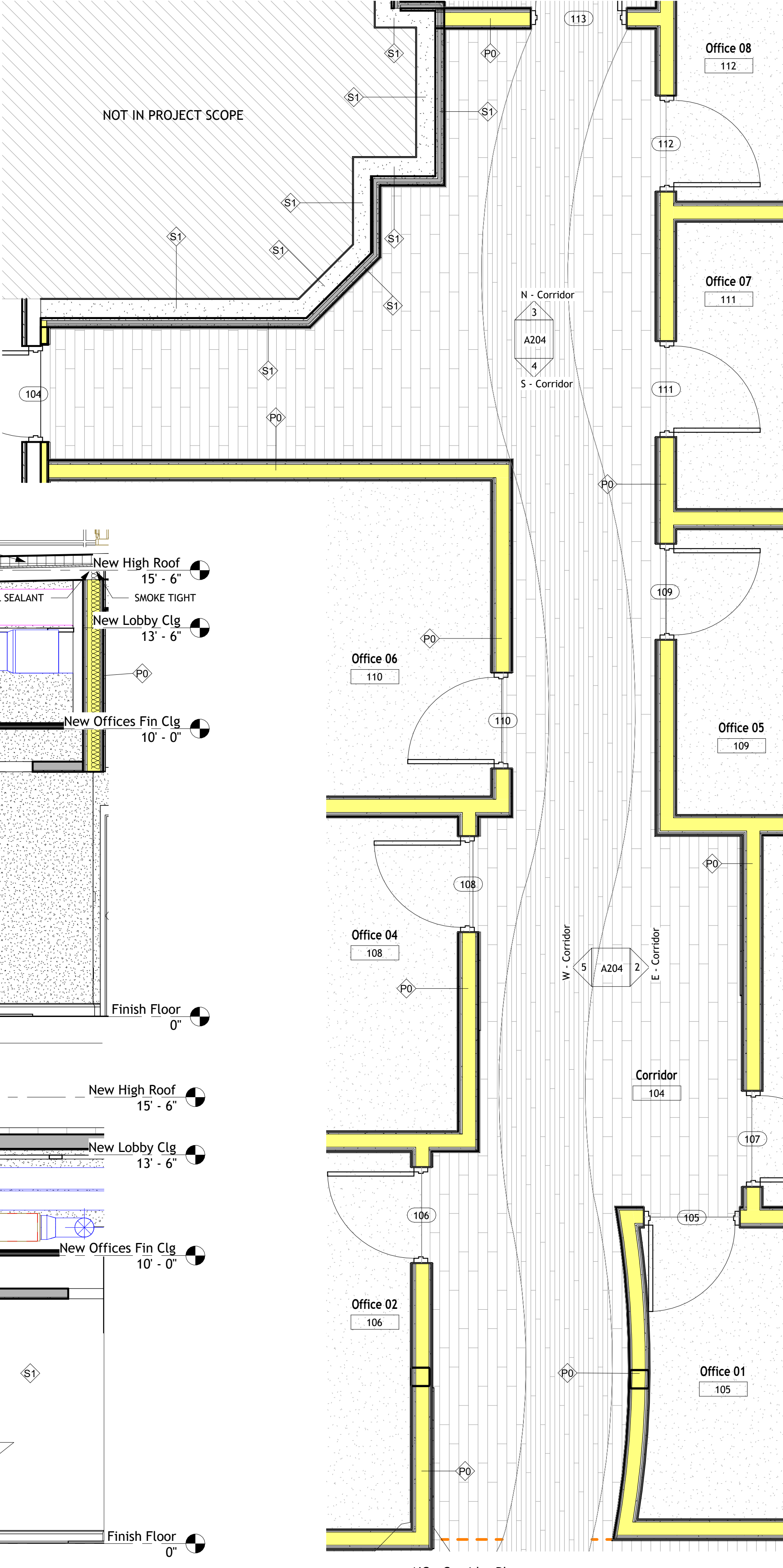
3 N - Corridor
3/8" = 1'-0"



2 E - Corridor
3/8" = 1'-0"



5 W - Corridor
3/8" = 1'-0"



1 NC - Corridor Plan
3/8" = 1'-0"

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No.	Description	Date

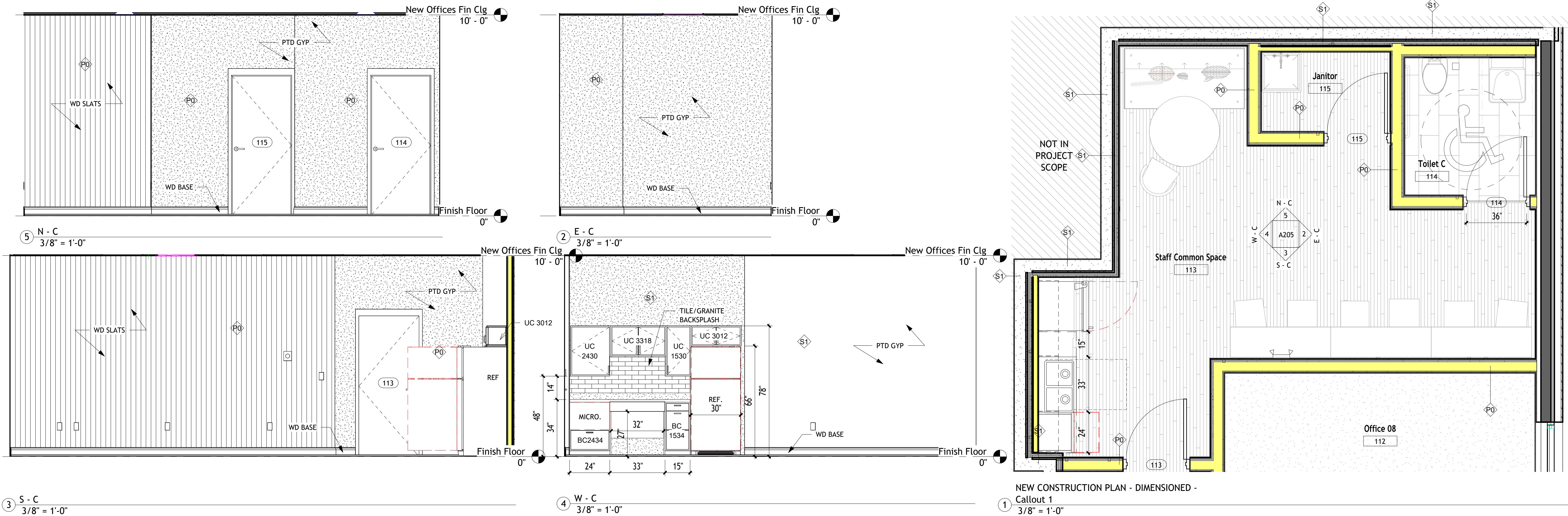
Interior Elevations - Corridor

Project number	24-140
Date	03.11.2026
Drawn by	Author
Checked by	Checker
	Designer

A204

Scale 3/8" = 1'-0"

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No.	Description	Date

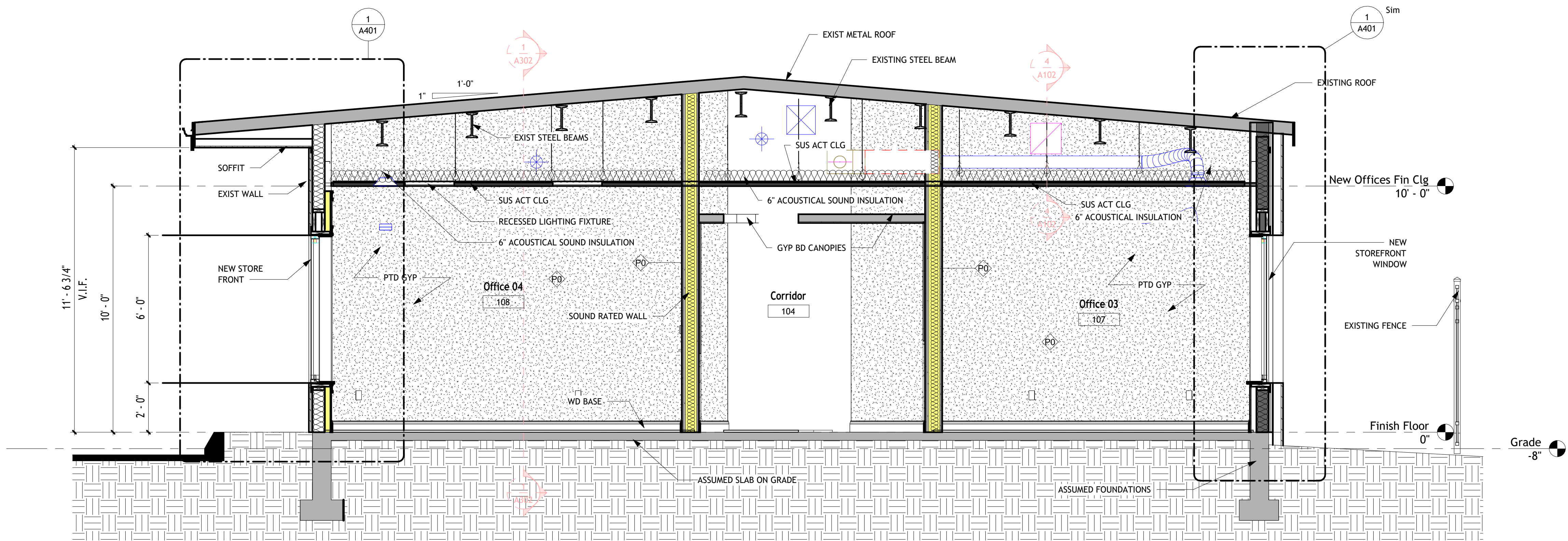
Interior Elevations - Staff Common Space

Project number	24-140
Date	03.11.2026
Drawn by	Author
Checked by	Checker
	Designer

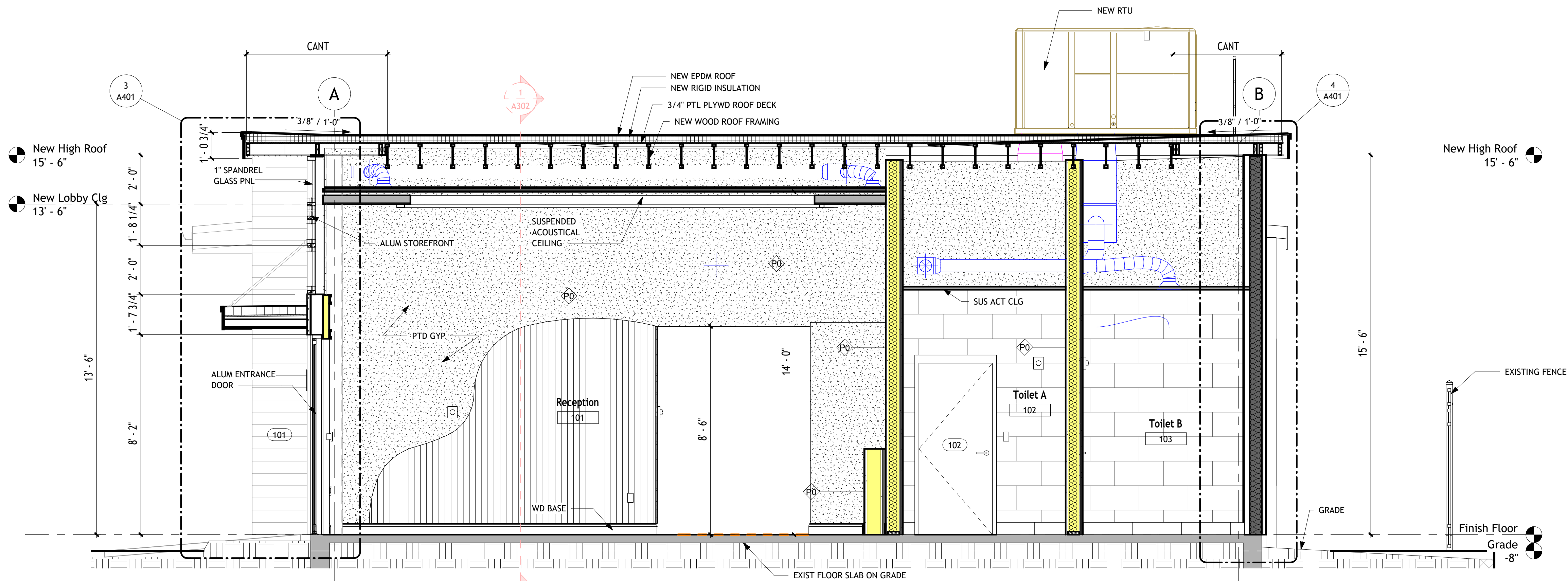
A205

Scale	3/8" = 1'-0"
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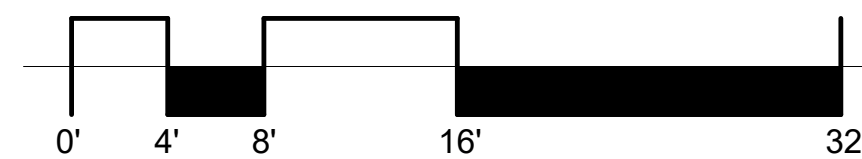
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1 Section 7
3/8" = 1'-0"



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



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No.	Description	Date

Building Sections

Project number	24-140
Date	03.11.2026
Drawn by	Author
Checked by	Checker
	Designer

A301

Scale 3/8" = 1'-0"

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1849 Post Road East Westport CT

Professional Seal:



wiles
+ Architects

Wiles + Architects, LLC
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No.	Description	Date

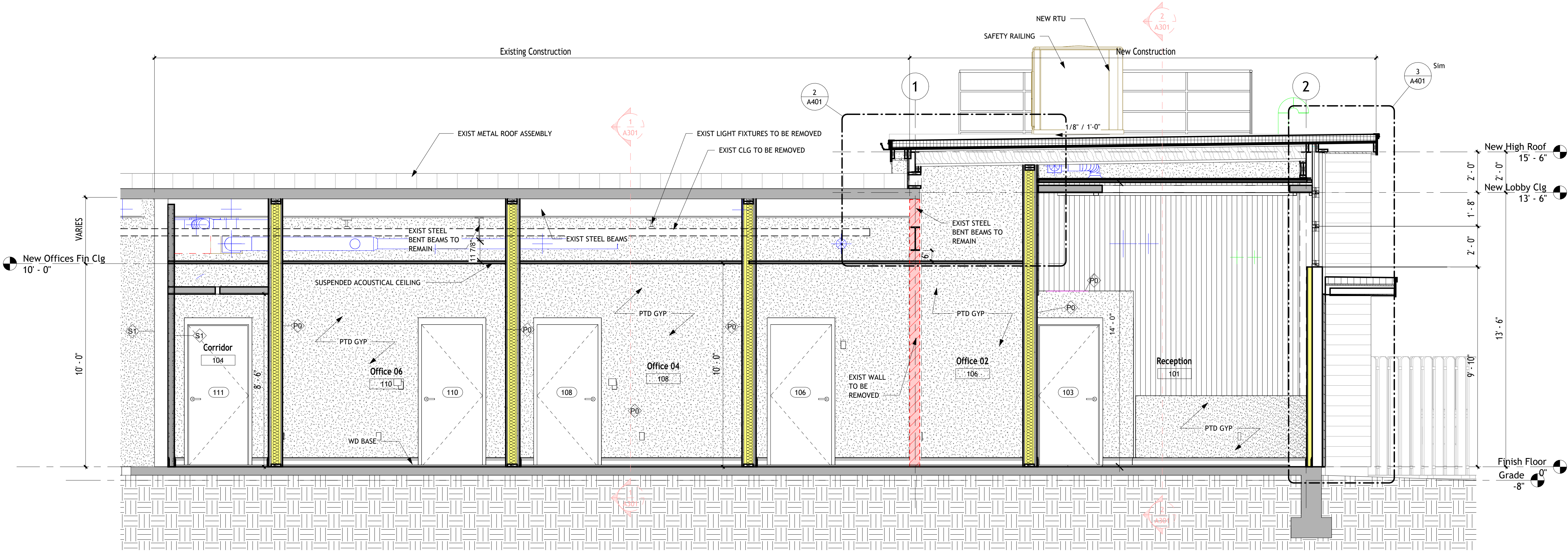
Building Sections

Project number	24-140
Date	03.11.2026
Drawn by	Author
Checked by	Checker
	Designer

A302

Scale 3/8" = 1'-0"

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1 Section 9
3/8" = 1'-0"

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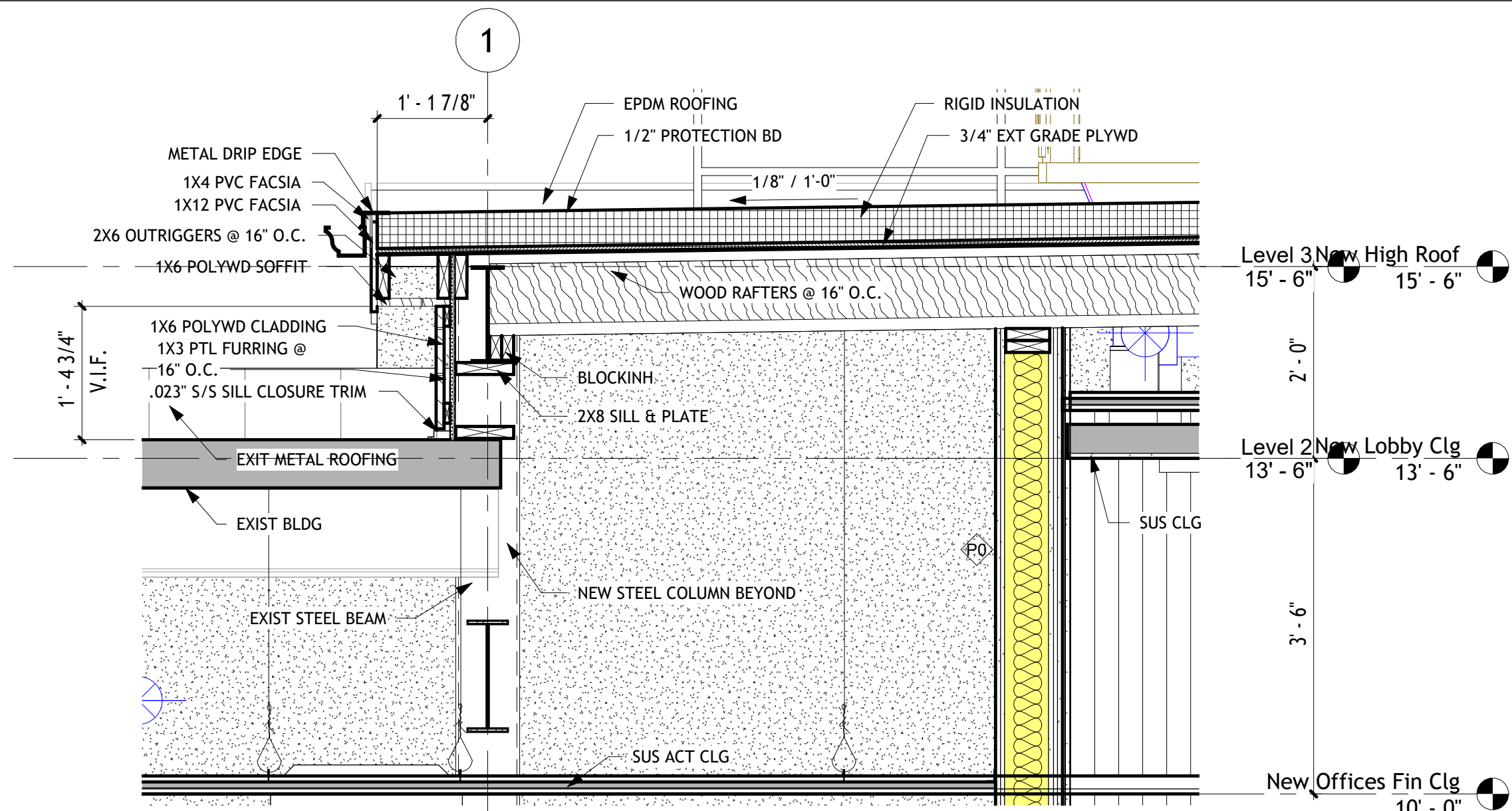
Wall Sections

Project number	24-140
Date	03.11.2026
Drawn by	Author
Checked by	Checker
	Designer

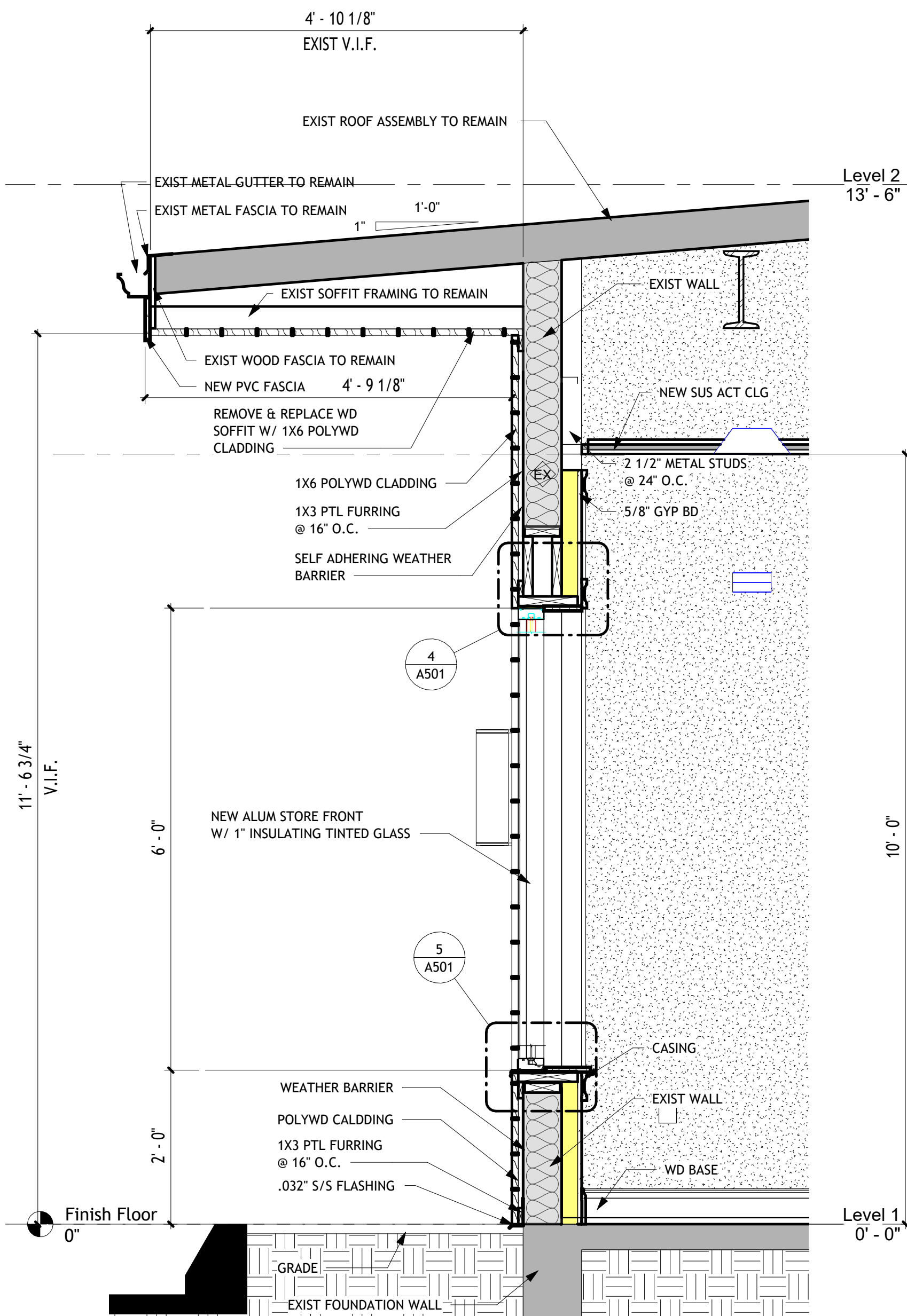
A401

Scale 3/4" = 1'-0"

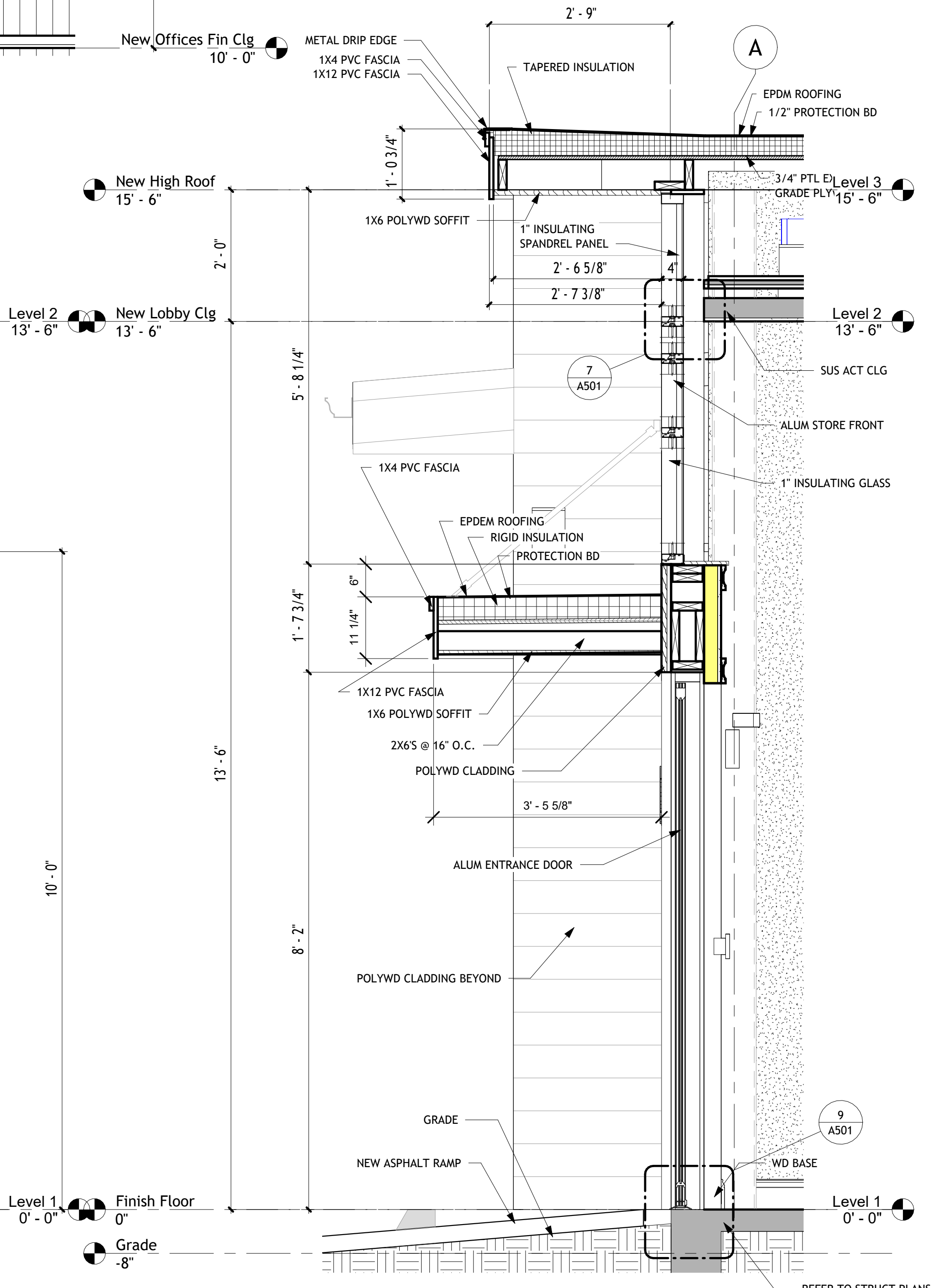
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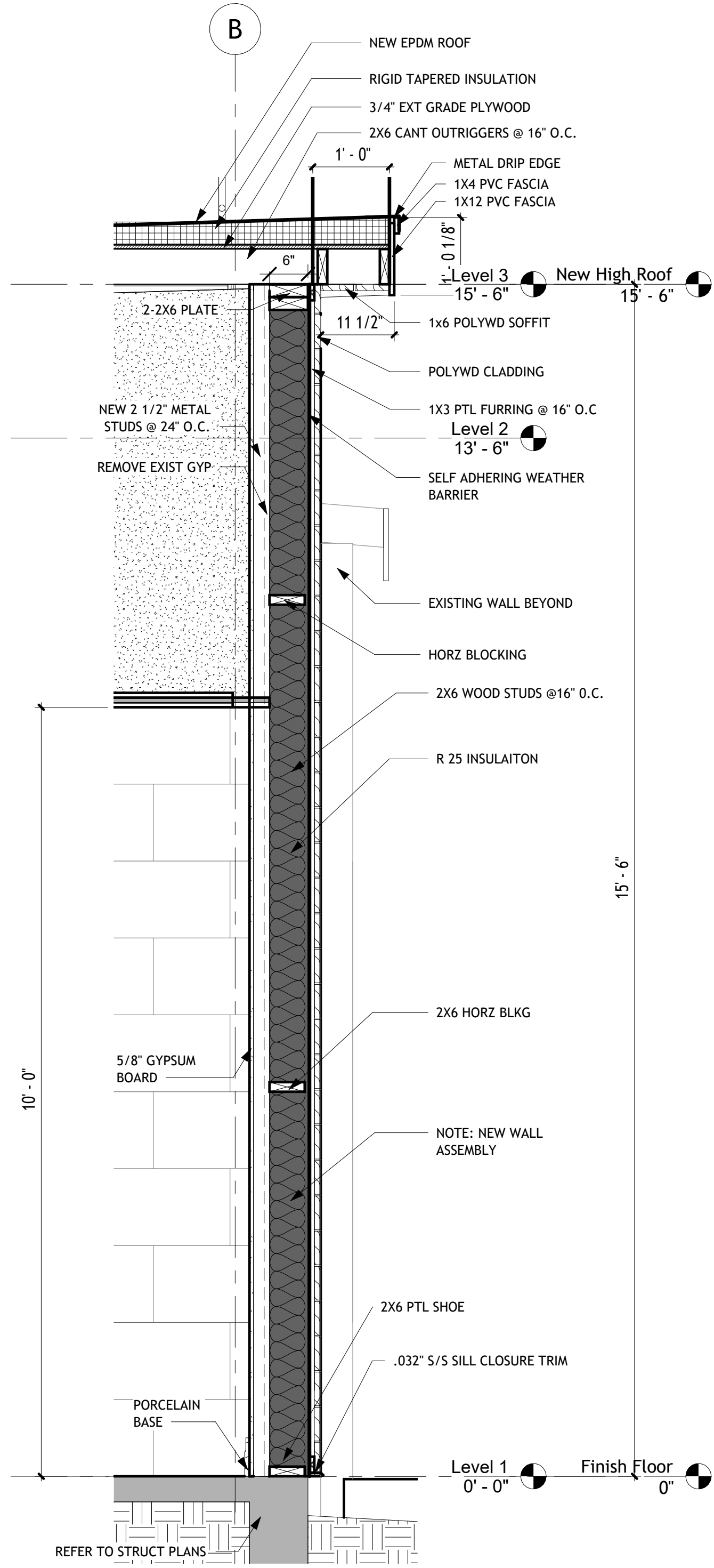
Section 9 - Callout 1
3/4" = 1'-0"



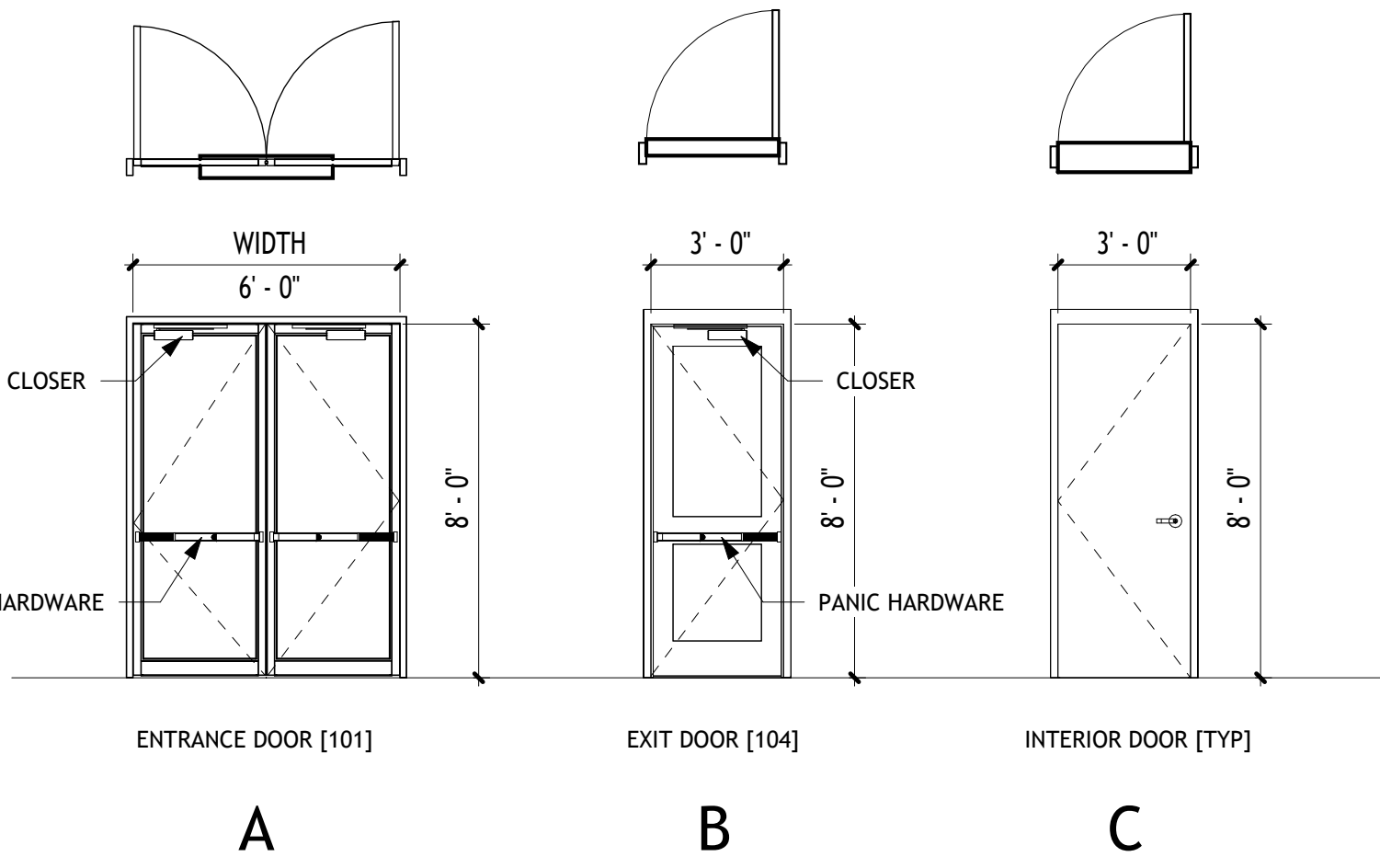
Section 7 - Callout 1
3/4" = 1'-0"



Section 8 - Callout 1
3/4" = 1'-0"

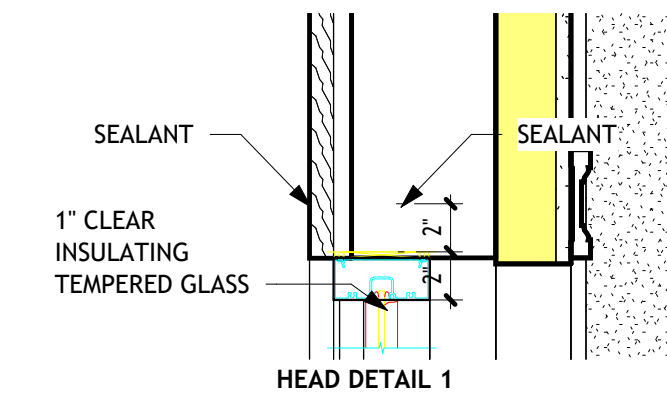


Section 8 - Callout 2
3/4" = 1'-0"

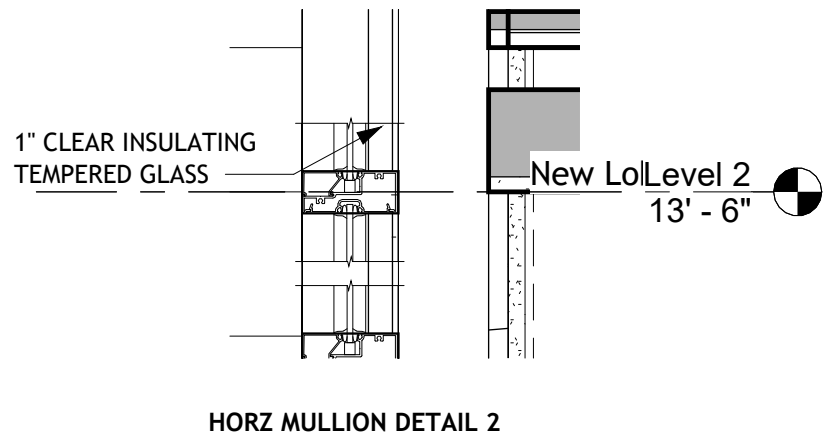


Door Schedule
1/4" = 1'-0"

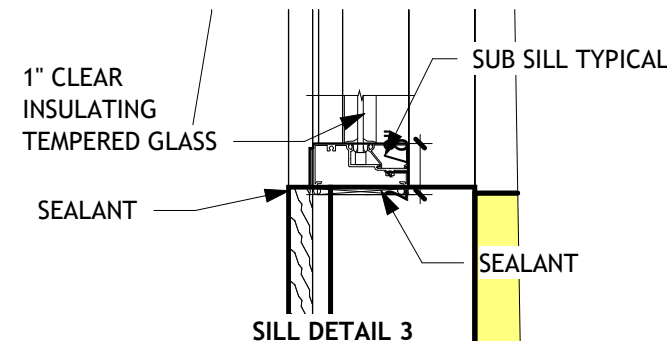
Door Schedule																		
Door		Door					Frame						Fire Rating Label		Hardware			
		Size			Material	Finish	Material	STC Rating	Finish	Head	Jamb	Sill			Function	From Room: Number		
Mark	Type Mark	Width	Height	Thickness														
101	A	3' - 0"	8' - 0"	1 3/4"	Alum	Factory Finished	Alum		Factory Finished	Weather seal	Weather Seal	ADA Alum	0	Yes	Panic Device	101		
102	C	3' - 0"	7' - 0"	1 3/4"	Wood	Factory Finished	Wood		Painted			ADA Marble Saddle		Yes	F8	101		
103	C	3' - 0"	7' - 0"	1 3/4"	Wood	Factory Finished	Wood		Painted			ADA Marble Saddle		Yes	F8	101	1	
104	B	3' - 0"	8' - 0"	1 3/4"	Wood	Factory Finished	Wood	50	Factory Finished	Weather seal	Sound Seal	Sound Seal	0	Yes	F8	104		
105	C	3' - 0"	7' - 0"	1 3/4"	Wood	Factory Finished	Wood	50	Painted	Sound Seal	Sound Seal	Sound Seal		Yes	F8	104		
106	C	3' - 0"	7' - 0"	1 3/4"	Wood	Factory Finished	Wood	50	Painted	Sound Seal	Sound Seal	Sound Seal		Yes	F8	104		
107	C	3' - 0"	7' - 0"	1 3/4"	Wood	Factory Finished	Wood	50	Painted	Sound Seal	Sound Seal	Sound Seal		Yes	F8	104		
108	C	3' - 0"	7' - 0"	1 3/4"	Wood	Factory Finished	Wood	50	Painted	Sound Seal	Sound Seal	Sound Seal		Yes	F8	104		
109	C	3' - 0"	7' - 0"	1 3/4"	Wood	Factory Finished	Wood	50	Painted	Sound Seal	Sound Seal	Sound Seal		Yes	F8	104		
110	C	3' - 0"	7' - 0"	1 3/4"	Wood	Factory Finished	Wood	50	Painted	Sound Seal	Sound Seal	Sound Seal		Yes	F8	104		
111	C	3' - 0"	7' - 0"	1 3/4"	Wood	Factory Finished	Wood	50	Painted	Sound Seal	Sound Seal	Sound Seal		Yes	F8	104		
112	C	3' - 0"	7' - 0"	1 3/4"	Wood	Factory Finished	Wood	50	Painted	Sound Seal	Sound Seal	Sound Seal		Yes	F8	104		
113	C	3' - 0"	7' - 0"	1 3/4"	Wood	Factory Finished	Wood	50	Painted	Sound Seal	Sound Seal	Sound Seal		Yes	F8	104		
114	C	3' - 0"	7' - 0"	1 3/4"	Wood	Factory Finished	Wood		Painted			ADA Marble Saddle		Yes	F8	114		
115	C	3' - 0"	7' - 0"	1 3/4"	Wood	Factory Finished	Wood		Painted			Vinyl Saddle		Yes	F7	113		



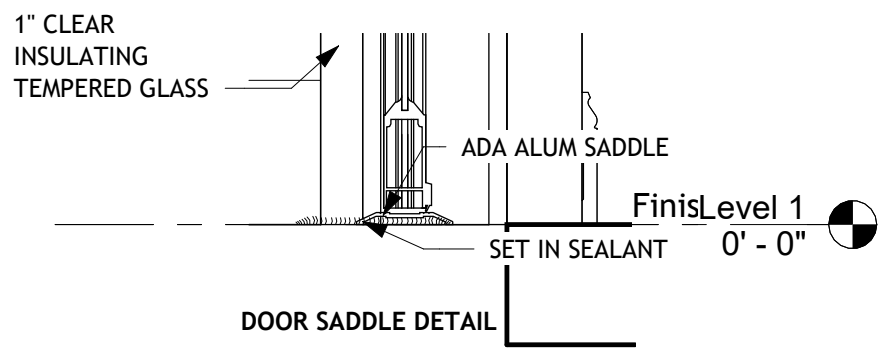
Section 7 - Callout 1 - Callout 1
1 1/2" = 1'-0"



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



Section 7 - Callout 1 - Callout 2
1 1/2" = 1'-0"



Section 8 - Callout 1 - Callout 4
1 1/2" = 1'-0"

Room Finish Schedule

Room Number	Room Name	Area	Floor Finish	Base Finish	North Wall	East Wall	South Wall	West Wall	Ceiling Finish	Ceiling Height	Comments
101	Reception	307 SF	LVT	Wood	PTD GYP - BM OC-65/ACOUSTICAL WOOD SLATS	PTD GYP - BM OC-65/ACOUSTICAL WOOD SLATS	PTD GYP - BM OC-65	PTD GYP - BM OC-65	2x2 ACT/5/8" GWB on METAL STUD		REFER TO CEILING PLAN
102	Toilet A	46 SF	Porcelain Tile	Poreclain Tile	12 x 24 PORCELAIN TILE	12 x 24 PORCELAIN TILE	12 x 24 PORCELAIN TILE	12 x 24 PORCELAIN TILE	2x2 ACT	8' - 8"	
103	Toilet B	83 SF	Porcelain Tile	Poreclain Tile	12 x 24 PORCELAIN TILE	12 x 24 PORCELAIN TILE	12 x 24 PORCELAIN TILE	12 x 24 PORCELAIN TILE	2x2 ACT	8' - 8"	
104	Corridor	454 SF	LVT	Wood	PTD GYP - BM OC-65	PTD GYP - BM OC-65/ACOUSTICAL WOOD SLATS	PTD GYP - BM OC-65	PTD GYP - BM OC-65/ACOUSTICAL WOOD SLATS	2x2 ACT/5/8" GWB on METAL STUD		REFER TO CEILING PLAN
105	Office 01	168 SF	Carpet Tile	Wood	PTD GYP - BM OC-65	PTD GYP - BM OC-65	PTD GYP - BM OC-65	PTD GYP - BM OC-65	2x2 ACT	10' - 0"	
106	Office 02	167 SF	Carpet Tile	Wood	PTD GYP - BM OC-65	PTD GYP - BM OC-65	PTD GYP - BM OC-65	PTD GYP - BM OC-65	2x2 ACT	10' - 0"	
107	Office 03	162 SF	Carpet Tile	Wood	PTD GYP - BM OC-65	PTD GYP - BM OC-65	PTD GYP - BM OC-65	PTD GYP - BM OC-65	2x2 ACT	10' - 0"	
108	Office 04	156 SF	Carpet Tile	Wood	PTD GYP - BM OC-65	PTD GYP - BM OC-65	PTD GYP - BM OC-65	PTD GYP - BM OC-65	2x2 ACT	10' - 0"	
109	Office 05	154 SF	Carpet Tile	Wood	PTD GYP - BM OC-65	PTD GYP - BM OC-65	PTD GYP - BM OC-65	PTD GYP - BM OC-65	2x2 ACT	10' - 0"	
110	Office 06	171 SF	Carpet Tile	Wood	PTD GYP - BM OC-65	PTD GYP - BM OC-65	PTD GYP - BM OC-65	PTD GYP - BM OC-65	2x2 ACT	10' - 0"	
111	Office 07	155 SF	Carpet Tile	Wood	PTD GYP - BM OC-65	PTD GYP - BM OC-65	PTD GYP - BM OC-65	PTD GYP - BM OC-65	2x2 ACT	10' - 0"	
112	Office 08	169 SF	Carpet Tile	Wood	PTD GYP - BM OC-65	PTD GYP - BM OC-65	PTD GYP - BM OC-65	PTD GYP - BM OC-65	2x2 ACT	10' - 0"	
113	Staff Common Space	287 SF	LVT	Wood	PTD GYP - BM OC-65/ACOUSTICAL WOOD SLATS	PTD GYP - BM OC-65	PTD GYP - BM OC-65/ACOUSTICAL WOOD SLATS	PTD GYP - BM OC-65	2x2 ACT	10' - 0"	
114	Toilet C	45 SF	Porcelain Tile	Poreclain Tile	12 x 24 PORCELAIN TILE	12 x 24 PORCELAIN TILE	12 x 24 PORCELAIN TILE	12 x 24 PORCELAIN TILE	2x2 ACT	8' - 8"	
115	Janitor	26 SF	LVT	Vinyl Cove Base	PTD GYP - BM OC-65	PTD GYP - BM OC-65	PTD GYP - BM OC-65	PTD GYP - BM OC-65	2x2 ACT	8' - 8"	

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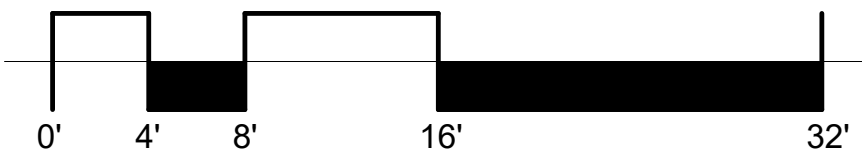
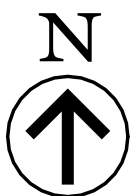
No.	Description	Date

Schedule & Details

Project number	24-140
Date	03.11.2026
Drawn by	Author
Checked by	Checker
	Designer

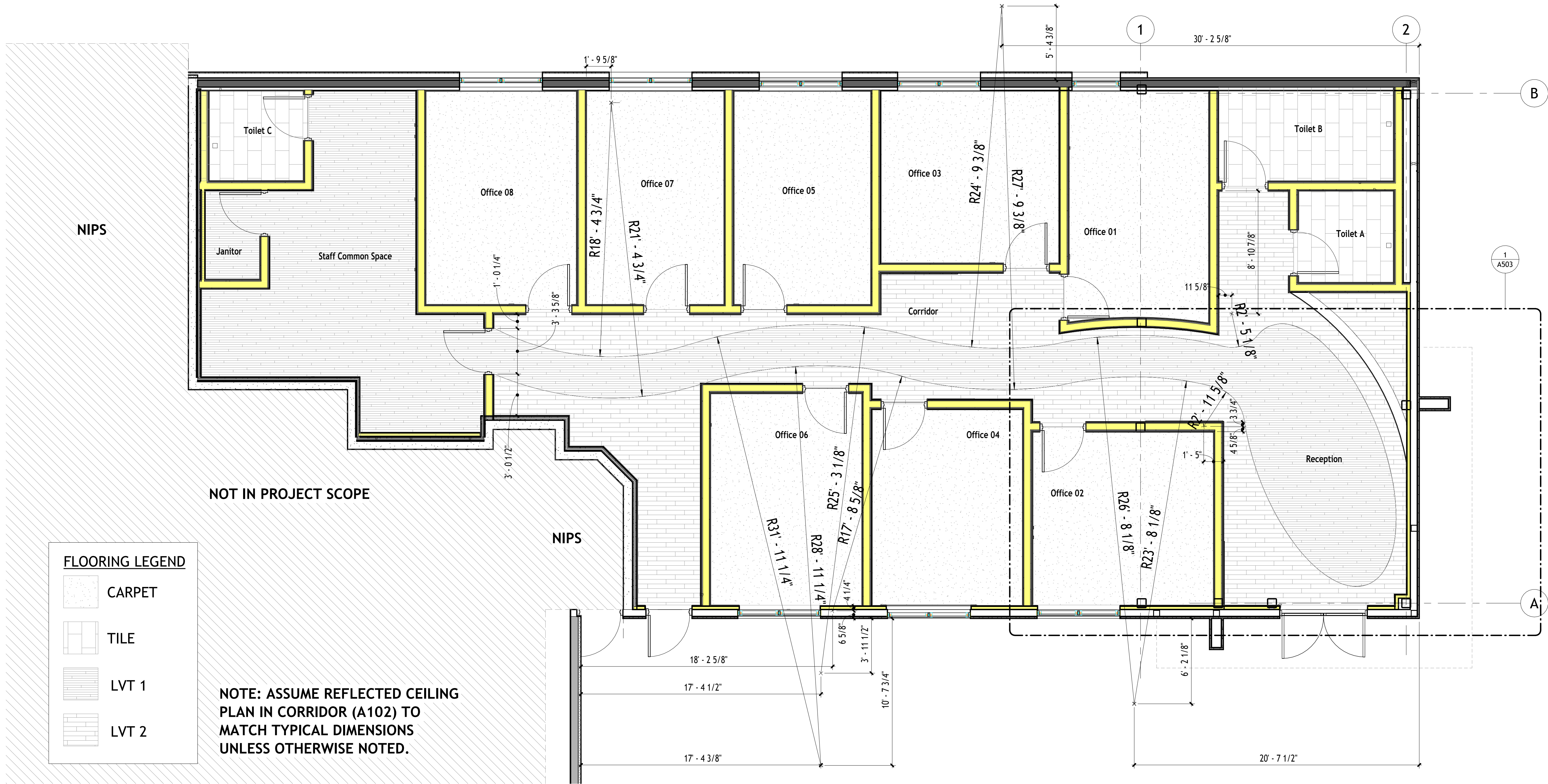
A501

Scale As indicated



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① Enlarged Dimensioned Floor Finish Plan
1/4" = 1'-0"

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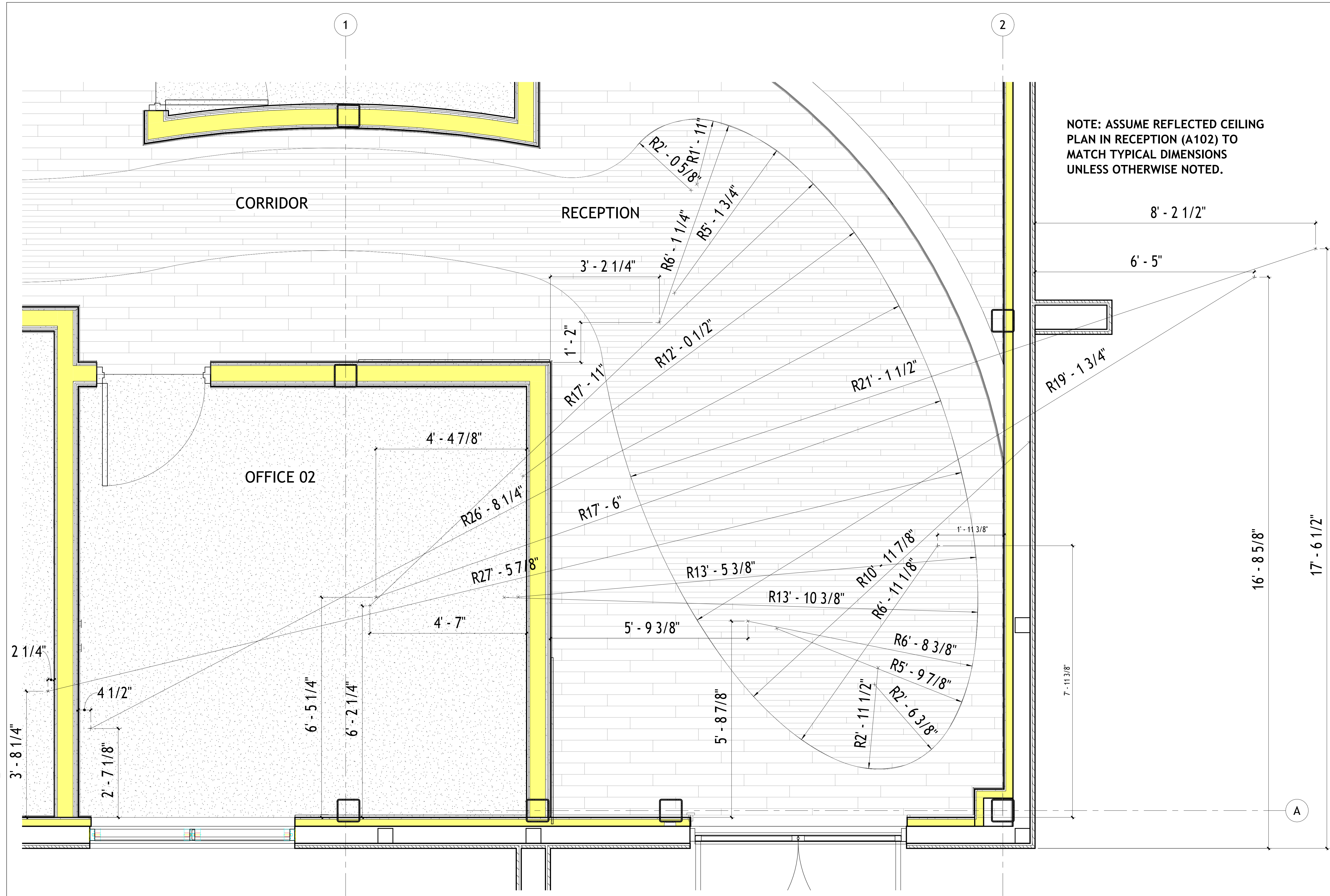
Flooring Details - Corridor

Project number	24-140
Date	03.11.2026
Drawn by	Author
Checked by	Checker
	Designer

A502

Scale 1/4" = 1'-0"

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① Reception Flooring Dimension
3/4" = 1'-0"

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No.	Description	Date

Flooring Details - Reception

Project number 24-140
Date 03.11.2026
Drawn by Author
Checked by Checker
Designer

A503

Scale 3/4" = 1'-0"

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1. THIS PROJECT HAS BEEN DESIGNED USING 2022 CONNECTICUT BUILDING CODE.
2. THE LOADS THAT HAVE BEEN USED IN THE STRUCTURAL DESIGN INCLUDE THE FOLLOWING:

SNOW LOAD:

GROUND SNOW LOAD	Pg	30 PSF
SNOW EXPOSURE CATEGORY	Ce	0.9
THERMAL FACTOR	Ct	1.0
IMPORTANCE FACTOR	Is	1.0
FLAT ROOF SNOW LOAD	Pf=0.7xCeCtIsXpPg	= 30 PSF
SNOW DRIFT CONDITIONS IN ACCORDANCE WITH THE GOVERNING CODE.		

WIND LOAD:

ULTIMATE WIND SPEED 120 MPH, EXPOSURE B, IMPORTANCE FACTOR 1.0.
DESIGN WIND PRESSURE FOR COMPONENT AND CLADDING IN ACCORDANCE WITH
SECTION R301. SEE TABLES R301.2(2) & R301.2(3) FOR WIND LOAD AND HEIGHT
ADJUSTING FACTOR.

3. THE GENERAL CONTRACTOR SHALL VERIFY THE SIZE AND LOCATION OF ALL ARCHITECTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL OPENINGS (COORDINATE WITH APPLICABLE TRADES). THE CONTRACTOR SHALL PROVIDE FOR ALL OPENINGS, ANY DEVIATION FROM OPENINGS SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION FOR APPROVAL PRIOR TO CONSTRUCTION.
4. THE CONTRACTOR SHALL REPORT TO ARCHITECT FOR ELEVATIONS NOT SHOWN AND FOR EXACT LOCATIONS OF ALL ARCHITECTURAL DETAILS. THE CONTRACTOR SHALL COMPARE THE STRUCTURAL AND ARCHITECTURAL DRAWINGS AND REPORT ANY DISCREPANCIES TO THE ENGINEER PRIOR TO COMPLETION OF THE SHOP DRAWINGS.
5. THE GENERAL CONTRACTOR SHALL VERIFY ALL DIMENSIONS SHOWN ON THE STRUCTURAL DRAWINGS WITH THE ARCHITECTURAL DRAWINGS BEFORE CONSTRUCTION AND NOTIFY THE ARCHITECT OF ANY DISCREPANCIES OR INDETERMINACIES BEFORE PROCEEDING WITH CONSTRUCTION.
6. THE CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS AT THE SITE AND SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES BETWEEN THE ACTUAL CONDITIONS AND INFORMATION SHOWN ON THE DRAWINGS BEFORE PROCEEDING WITH THE WORK.
7. COMPLETE SHOP DRAWINGS AS REQUIRED FOR THE STRUCTURAL WORK SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW PRIOR TO COMMENCEMENT OF CONSTRUCTION. IN ACCORDANCE WITH THE SPECIFICATION, SUCH REVIEW BY THE ENGINEER DOES NOT RELIEVE THE CONTRACTOR OF FULL RESPONSIBILITY FOR CORRECT FABRICATION AND CONSTRUCTION OF THE WORK. ALLOW (10) BUSINESS DAYS FOR REVIEW FROM THE TIME SUBMITTALS ARE RECEIVED IN OUR OFFICE. THE STRUCTURAL ENGINEER SHALL NOT BE RESPONSIBLE FOR MATERIALS PURCHASED PRIOR TO REVIEW OF SHOP DRAWINGS.
8. ANY DEVIATION FROM, ADDITION TO, SUBSTITUTION FOR, OR MODIFICATION TO THE STRUCTURE OR ANY PART OF THE STRUCTURE IDENTIFIED ON THESE DRAWINGS SHALL BE SUBMITTED IN WRITING TO THE ENGINEER FOR REVIEW. SHOP DRAWINGS THAT ARE SUBMITTED FOR REVIEW DO NOT CONSTITUTE "IN-WRITING" UNLESS IT IS CLEARLY NOTED THAT SPECIFIC CHANGES ARE BEING SUGGESTED.
9. THE STRUCTURAL DRAWINGS ARE NOT TO BE SCALED FOR DETERMINATION OF QUANTITIES, LENGTHS, OR FIT OF MATERIALS.
10. THE STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE METHODS OF CONSTRUCTION UNLESS SO STATED OR NOTED. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE WORKMEN AND OTHER PERSONS DURING CONSTRUCTION.
11. THE CONTRACTOR SHALL PROVIDE TEMPORARY ERECTION BRACING AND SHORING OF ALL STRUCTURAL WORK AS REQUIRED FOR STABILITY OF THE STRUCTURE DURING ALL PHASES OF CONSTRUCTION. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY CONDITION WHICH, IN HIS OPINION, MIGHT ENDANGER THE STABILITY OF THE STRUCTURE OR CAUSE DISTRESS IN THE STRUCTURE.
12. CONSTRUCTION MATERIAL SHALL NOT BE STORED ON FLOORS IN EXCESS OF THE DESIGN LIVE LOADS WHICH ARE INDICATED ON THE DRAWINGS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENFORCE THIS REQUIREMENT. IMPACT SHALL BE AVOIDED WHEN PLACING MATERIALS ON FLOORS OR ROOFS.

2. FOOTINGS SHALL BEAR ON SOIL WITH A NET ALLOWABLE BEARING PRESSURE OF 4000 PSF. EXCAVATION FOR FOUNDATIONS SHALL BE TAKEN TO FIRM UNDISTURBED SOIL, DRY AND FREE FROM FROST OR LOOSE MATERIALS. EXCAVATIONS SHALL BE INSPECTED AND APPROVED BY THE GEOTECHNICAL ENGINEER PRIOR TO PLACING CONCRETE. CONTRACTOR TO PROVIDE TEMPORARY PROTECTION AS REQUIRED FOR FOUNDATIONS EXPOSED TO WATER OR FREEZING.
3. IF ROCK IS ENCOUNTERED AT/OR ABOVE THE PROPOSED BOTTOM ELEVATION OF THE FOOTING. ROCK NEEDS TO BE OVER EXCAVATED DOWN TO MINIMUM OF 8 INCHES BELOW THE PROPOSED BOTTOM ELEVATION OF THE FOOTING TO ALLOW INSTALLATION OF 8 INCH THICK LAYER OF CRUSHED STONE, THE ROCK SURFACE SHALL BE RELATIVELY EVEN WITH EXCAVATED ROCK SURFACE ELEVATION NOT VARYING BY MORE THAN TWO (2) INCHES.
4. BACK FILL BELOW GRADE SHALL BE GRANULAR, FREE DRAINING, STRUCTURALLY SOUND, FREE FROM DELETERIOUS AND ORGANIC MATERIAL, AND MEETING THE GRADATION RECOMMENDED BY THE GEOTECHNICAL ENGINEER. SUCH FILL SHALL BE PLACED IN NO MORE THAN (12) INCH THICK LIFTS, IN THE LOOSE STATE, AND COMPACTED TO NO LESS THAN 95% OF ITS MAXIMUM DRY DENSITY, AS DETERMINED BY MODIFIED PROCTOR DENSITY TEST.
5. ALL FOOTINGS MUST BEAR A MINIMUM OF (42) INCHES BELOW FINISH GRADE.
6. A QUALIFIED SOIL TECHNICIAN SHALL PERFORM SUFFICIENT IN PLACE DENSITY TESTS DURING FILL OPERATIONS TO VERIFY THAT PROPER LEVELS OF COMPACTION ARE ATTAINED AND THE FOOTINGS ARE BEARING ON THE PROPER MATERIALS.
7. CONCRETE FOR SLAB ON GRADE SHALL BE PLACED OVER 2 INCHES CLEAN UNIFORM SAND, A CONTINUOUS 10 MIL POLYETHYLENE MOISTURE BARRIER OVER 4 INCHES LAYER OF CLEAN UNIFORM SAND, ALL SEAMS SHALL BE LAPPED 12 INCHES AND TAPED.
8. THE CONTRACTOR SHALL SUBMIT DRAWINGS SHOWING THE PROPOSED CONTROL AND CONSTRUCTION JOINTS FOR ALL WALLS FOR REVIEW PRIOR TO POURING ANY CONCRETE. THIS INCLUDES WALLS, TOPPING AND SLAB ON GRADE. JOINTS IN CONCRETE FOUNDATION WALLS SHALL BE LOCATED SO THAT NO SINGLE POUR IS LONGER THAN 40 FEET. A JOINT SHALL BE LOCATED WITHIN 3'-0" FROM ANY CORNER.

1. ALL CONCRETE WORK SHALL BE IN ACCORDANCE OF THE LATEST EDITION OF ACI 318 " BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE".
2. ALL CONCRETE EXPOSED TO EARTH OR WEATHER SHALL HAVE 4% - 6% ENTRAINED AIR.
3. REINFORCING STEEL SHALL CONFORM TO ASTM A-615, WELDED WIRE FABRIC SHALL CONFORM TO ASTM A-185, GRADE 65, AND SHALL BE SUPPLIED IN SHEETS ONLY. WELDED REINFORCEMENT SHALL CONFORM TO ASTM A706.
4. REINFORCEMENT SHALL BE FABRICATED BY THE CONTRACTOR AND ALL ACCESSORIES, CHAIRS, SPACER BARS, SUPPORTS REQUIRED TO SECURE THE REINFORCEMENT SHALL BE FURNISHED PRIOR TO CONCRETE PLACEMENT.
5. CLASS "B" TENSION LAP SPLICES, HOOKS AND BENDS IN REINFORCING SHALL CONFORM TO ACI 318 UNLESS OTHERWISE INDICATED ON THE DRAWINGS.
6. ALL CONCRETE SHALL BE NORMAL WEIGHT, READY MIX, AND SHALL DEVELOP MINIMUM STRENGTH AT 28 DAYS AS FOLLOWS:

FOUNDATION	3000 PSI
WALLS	3000 PSI
SLAB ON GRADE	4000 PSI
7. NO CALCIUM CHLORIDE OR ADMIXTURE CONTAINING MORE THAN 1% CHLORIDE BY WEIGHT OF ADMIXTURE SHALL BE USED IN CONCRETE.
8. ALL KEYS IN CONCRETE WALLS SHALL BE 2"x4" UNLESS NOTED OTHERWISE.
9. PROVIDE CLEAR CONCRETE COVER TO REINFORCEMENT AS FOLLOWS:

FOOTING (AGAINST EARTH)	3"
COLUMN & PIERS (VERTICAL BARS)	2"
WALLS INTERIOR FACE	3/4"
WALLS EXTERIOR FACE	#5& SMALLER 1 1/2"
WALLS INTERIOR FACE	#6& LARGER 2"
SLAB INTERIOR	3/4"
SLAB EXTERIOR	1 1/2"
SLAB ON GRADE	1/3 X THK FROM TOP SURFACE.
10. MAXIMUM ALLOWABLE SLUMP FOR CONCRETE SHALL NOT EXCEED 4".

1. ALL MASONRY WORK SHALL CONFORM TO THE " BUILDING CODE REQUIREMENTS OF MASONRY STRUCTURE" (ACI 530-02/ ASCE 5-02).
2. ALL CONCRETE MASONRY UNITS (CMU) SHALL CONFORM TO ASTM C90, GRADE N-1, WITH AN INDIVIDUAL COMPRESSIVE STRENGTH OF 2400 PSI.
3. MORTAR SHALL BE TYPE M OR S AND CONFORM TO ASTM C270.
4. GROUT SHALL CONFORM TO ASTM C476 WITH MINIMUM COMPRESSIVE STRENGTH OF 2500 PSI, IN ACCORDANCE WITH THE PROVISIONS OF ASTM C1019.
5. REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60. WELDED REINFORCING BARS SHALL CONFORM TO ASTM A706.
6. HORIZONTAL JOINT REINFORCING SHALL BE TRUSS TYPE, AND SHALL CONFORM TO ASTM A82, FY = 70 KSI.
7. WHERE IT IS NOT INDICATED ON THE DRAWINGS PROVIDE MINIMUM REINFORCEMENT AS FOLLOWS:
 6" AND 8" CMU WALL - # 5 @ 48" O.C. VERTICAL, # 9 TRUSS TYPE @ 16" O.C. HORIZONTAL.
 10" AND 12" CMU WALL - # 6 @ 48" O.C. VERTICAL, 3/16 TRUSS TYPE @ 16" O.C. HORIZONTAL.
8. PROVIDE CONTINUOUS BOND BEAM WITH MINIMUM 2#5 AT, TOP OF FOUNDATION WALLS, EACH FLOOR LEVEL AND TOP OF PARAPETS.
9. INSTALL PROPER BAR SPACERS TO SECURE VERTICAL BARS AND MAINTAIN POSITION.
10. PLACE GROUT IN LOW LIFTS OF (5) FEET MAXIMUM. CONSOLIDATE EACH LIFT BY MECHANICAL VIBRATOR.

11. ALL CMU WALLS SHALL BE BRACED AT THE TOP UNLESS BRACED HORIZONTALLY BY COLUMNS OR INTERSECTING WALLS AT A MAXIMUM SPACING OF 11 FEET FOR 4" WALLS, 17 FEET FOR 6" WALLS, 23 FEET FOR 8" WALLS AND 33 FEET FOR 12" WALLS.
12. MINIMUM DEVELOPMENT LENGTH AND SPLICE LENGTH OF REINFORCING BARS SHALL BE 48" DIAMETER.
13. CELLS CONTAINING REINFORCING BARS AND ALL CELLS BELOW GRADE SHALL BE GROUTED SOLID.
14. ALL BOLTS AND ANCHORS SHALL BE SOLIDLY EMBEDDED IN MORTAR OR GROUT. IF BOND BEAM IS NOT LOCATED AT BOLT OR ANCHOR ELEVATION, PROVIDE LATH AND FILL LOCALLY TO PROVIDE SUBSTRATE FOR BOLT OR ANCHOR.
15. THE FOLLOWING STEPS ARE TO BE TAKEN WHEN LAYING MASONRY IN THE TEMPERATURES STATED BELOW:
 - 40° -32° F (MEAN DAILY AIR TEMPERATURE)
 - HEAT MIXING WATER AND AGGREGATE TO 70° F.
 - PROTECT MASONRY FROM RAIN AND SNOW FOR 24 HOURS.
 - 32° -20° F (MEAN DAILY AIR TEMPERATURE)
 - HEAT MIXING WATER AND AGGREGATE TO 70° F.
 - PROVIDE WIND BREAKS FOR WIND VELOCITY IN EXCESS OF 15 MPH.
 - COVER MASONRY WITH INSULATING BLANKET FOR 24 HOURS.
 - PROVIDE HEAT SOURCES ON BOTH SIDE OF MASONRY CONSTRUCTION.
 - BELOW 20° F (MEAN DAILY AIR TEMPERATURE)
 - HEAT MIXING WATER AND AGGREGATE TO 70° F.
 - PROVIDE ENCLOSURE AND HEAT TO MAINTAIN 40° F MINIMUM TEMPERATURE.
 - TEMPERATURE OF MASONRY UNITS MUST BE 40° MINIMUM WHEN LAID.
 - MAINTAIN MASONRY ABOVE 40° F FOR 24 HOURS BY ENCLOSURES AND SUPPLEMENTAL HEAT.
16. CELLS CONTAINING REINFORCING BARS AND CELLS BELOW GRADE SHALL BE GROUTED SOLID.

1. STRUCTURAL STEEL SHALL BE NEW AND SHALL CONFORM TO THE LATEST EDITION OF AISC "SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDING".
2. STRUCTURAL STEEL MISC. (L, C, ETC.) SHALL CONFORM TO ASTM A36.
STRUCTURAL STEEL ROLLED WIDE FLANGE SHALL CONFORM TO ASTM A992, GRADE 50.
STRUCTURAL STEEL FABRICATING SHALL CONFORM TO ASTM A500, GRADE B.
STRUCTURAL STEEL PIPES SHALL CONFORM TO ASTM A53, GRADE B.
3. ALL SHOP AND FIELD WELDS SHALL BE MADE BY CERTIFIED WELDERS, AND SHALL CONFORM TO AWS D1.1 "STRUCTURAL WELDING STEEL CODE".
4. ELECTRODES FOR ALL SHOP AND FIELD WELDS SHALL CONFORM TO AWS E70 SERIES.
5. SPLICING OF STRUCTURAL MEMBERS WERE NOT DETAILED ON THE DRAWINGS IS PROHIBITED WITHOUT PRIOR APPROVAL OF THE STRUCTURAL ENGINEER.
6. USE LARGER OF 1/4" FILLET WELDS OR MINIMUM SIZE PER AISC REQUIREMENTS WHERE NO WELD SIZE IS SHOWN ON THE DRAWINGS.
7. PROVIDE 1/4" CLOSURE PLATES WITH FULL SEAL WELD FOR ALL TUBE OR PIPE HOLLOW STEEL SECTIONS, UNLESS NOTED OTHERWISE ON THE DRAWINGS.
8. ALL GROUT FOR BASE PLATES AND ANCHOR BOLTS SHALL BE NON-SHRINK TYPE WITH A MINIMUM ULTIMATE COMPRESSIVE STRENGTH OF 5000 PSI AT 28 DAYS.
9. PENETRATIONS THROUGH STRUCTURAL STEEL MEMBERS WILL NOT BE ALLOWED UNLESS INDICATED ON THE STRUCTURAL DRAWINGS OR ACCEPTED BY THE ENGINEER.
10. MINIMUM CONNECTION PLATE THICKNESS SHALL BE 3/8", UNLESS OTHERWISE INDICATED ON THE DRAWINGS.
11. SPLICING OF THE STRUCTURAL MEMBERS NOT DETAILED ON THE DRAWINGS IS NOT ALLOWED UNLESS PER APPROVED BY THE STRUCTURAL ENGINEER.
12. ALL STRUCTURAL STEEL, BASE PLATES AND TOPS OF ANCHOR BOLTS TO BE EXPOSED TO SOIL OR TO BE ENCASED IN CONCRETE SHALL BE COATED WITH MINIMUM OF 20 MIL THICKNESS OF AN APPROVED COAL TAR EPOXY.
13. ALL COLUMN BASE PLATES SHALL HAVE A MINIMUM OF ANCHOR BOLTS.
-GRAVITY COLUMN BASE PLATES ANCHOR BOLTS SHALL CONFORM TO ASTM F1554 GRADE 36.
-MOMENT AND BRACED FRAME COLUMN BASE PLATES ANCHOR BOLTS SHALL CONFORM TO ASTM F 1554 GRADE 55 (75 KSI TENSILE STRENGTH).
14. THE STRUCTURAL CONNECTIONS, AS SHOWN - ON THE DRAWINGS, ARE SCHEMATIC ONLY AND ARE INTENDED TO DEFINE THE SPATIAL RELATIONSHIP BETWEEN MEMBERS. THE DESIGN OF ALL CONNECTIONS NOT SPECIFICALLY, AND COMPLETELY DETAILED ON THE STRUCTURAL DRAWINGS SHALL BE DESIGNED BY A REGISTERED PROFESSIONAL ENGINEER IN THE STATE OF CONNECTICUT. MOMENT CONNECTIONS SHALL BE DESIGNED TO DEVELOP FULL MOMENT CAPACITY OF THE ELEMENTS CONNECTED, UNLESS SPECIFIC MOMENT IS INDICATED ON THE DRAWINGS.
15. ALL FRAMED BEAM CONNECTIONS SHALL BE MADE USING DOUBLE WEB ANGLES.
16. THE FOLLOWING MINIMUM NUMBER OF BOLT ROWS SHALL BE USED:
10" OR LESS 2 ROWS
12" TO 14" 3 ROWS
16" TO 18" 4 ROWS
21" TO 24" 5 ROWS
17. ALL STEEL BEAMS SHALL BE ERECTED WITH NATURAL CAMBER UP.
18. ALL EXTERIOR STEEL EXPOSED TO WEATHER, INCLUDING LINTELS, SHALL BE GALVANIZED.
19. ALL HIGH STRENGTH BOLTS SHALL CONFORM TO THE CURRENT SPECIFICATIONS FOR STRUCTURAL JOINTS USING ASTM A490 BOLTS AS ENDORSED BY AISC. ALL BEAM TO COLUMN CONNECTIONS SHALL BE MADE WITH HIGH STRENGTH BOLTS AND SHALL BE FULLY TENSIONED. ALL OTHER HIGH STRENGTH BOLTED CONNECTIONS MAY BE SNUG TIGHT UNLESS NOTED AS SLIP CRITICAL OR TENSION CONTROLLED ON DRAWINGS.
20. AFTER FABRICATION, ALL STEEL SHALL RECEIVE A SHOP COAT OF PAINT, EXCEPT FOR THE FOLLOWING:
-MEMBERS ENCASED IN CONCRETE OR SPRAY FIRE PROOFED.
-AREAS WITHIN 2' OF FIELD WELDS.
-CONTACT SURFACES OF HIGH STRENGTH BOLTED FRICTION TYPE CONNECTIONS.
-MILLED SURFACES.
21. STRUCTURAL STEEL FABRICATOR SHALL BE APPROVED PER SECTION 1704.2 OF THE CONNECTICUT BUILDING CODE.

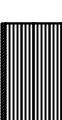
1. ALL STRUCTURAL FRAMING SHALL BE DOUGLAS FIR-LARCH VISUALLY GRADED AS FOLLOW:
 2" THICK - 4" WIDE CONSTRUCTION (Fb = 1000 PSI, E=1,600,000 PSI)
 2" TO 4" THICK - 5" WIDER NO. 2 OR BETTER (Fb = 1000 PSI, E=1,600,000 PSI)
 5" & THICKER - 5" & WIDER NO. 1 OR BETTER (Fb = 1200 PSI, E=1,600,000 PSI)
2. PROVIDE 2X CROSS BRIDGING NOT OVER 7'-0" ON CENTER FOR ALL WOOD JOISTS WHERE DEPTH IS EQUAL TO OR MORE THAN 5 TIMES THICKNESS, AND 2X BLOCKING BETWEEN JOISTS AT SUPPORT. STANDARD GRADE LUMBER MAY BE USED FOR BRIDGING, BLOCKING AND WALL STUDS.
3. PROVIDE 2X MID HEIGHT BRIDGING BETWEEN WALL STUDS.
4. PROVIDE SOLID BLOCKING BETWEEN PARTITIONS UNDER ALL LOAD BEARING PARTITIONS RUNNING PERPENDICULAR TO JOISTS. PROVIDE 2X JOIST JOISTS UNDER PARTITIONS RUNNING PARALLEL TO JOISTS.
5. PROVIDE WOOD STIFFENERS BOTH SIDES OF TJ AT ALL SUPPORTS.
6. TIMBER CONNECTORS CALLED FOR ON THE DRAWINGS ARE AS MANUFACTURED BY THE SIMPSON COMPANY. CONNECTORS BY OTHER MANUFACTURERS MAY BE USED IF THE LOAD CAPACITY IS EQUAL TO OR GREATER THAN THE CONNECTOR SPECIFIED. USE MANUFACTURER'S FURNISHED NAILS AND BOLTS.
7. SHEATHING FOR ROOF AND WALLS SHALL BE APA GRADE TRADEMARK C-0 INTERIOR WITH EXTERIOR GLUE AND SHALL CONFORM TO AMERICAN PLYWOOD ASSOCIATION STANDARD (PSI), LATEST EDITION.
8. FASTEN ALL WOOD MEMBERS WITH COMMON NAILS ACCORDING TO THE BUILDING CODE.

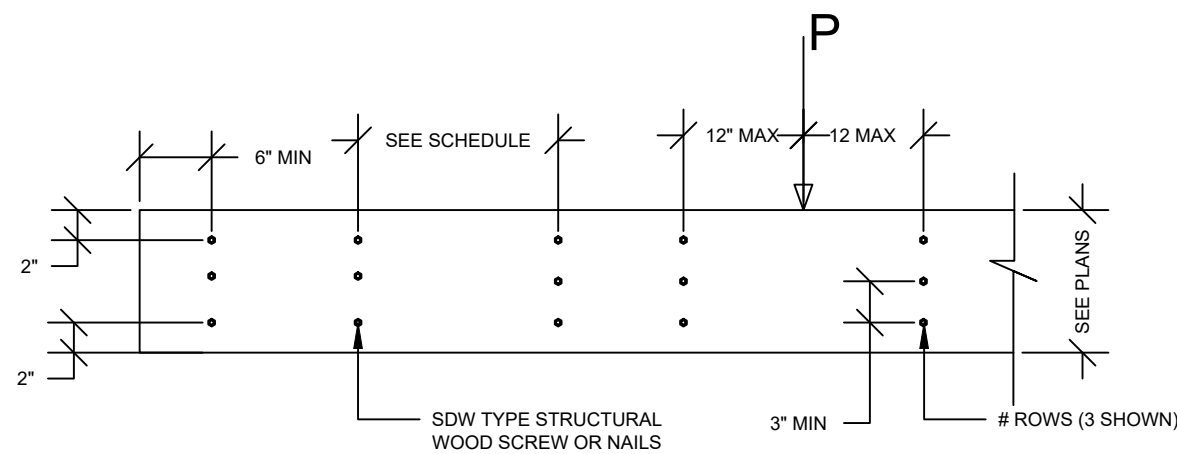
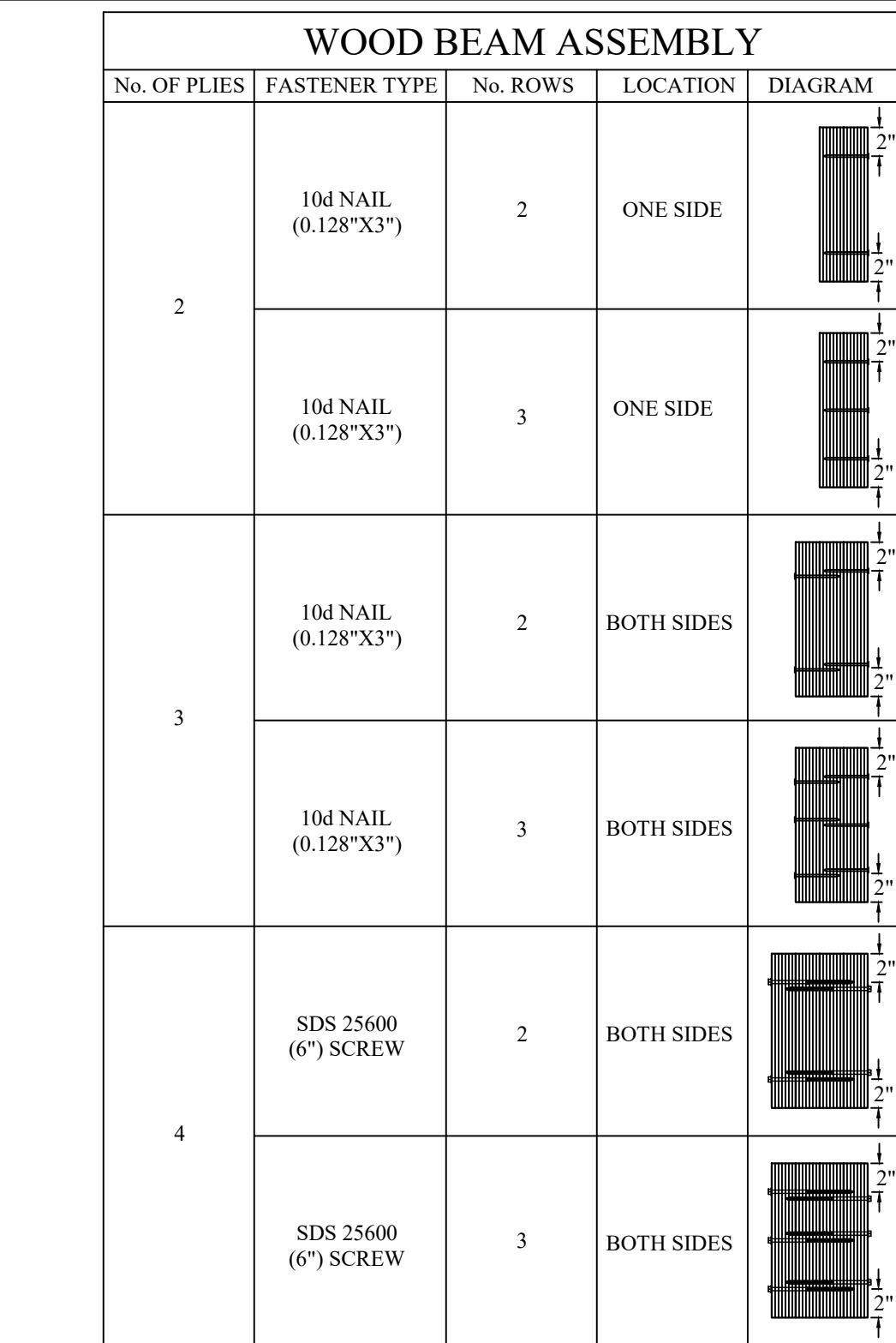
1. LAMINATED VENEER LUMBER CALLED OUT ON THE PLANS ARE TRADEMARK MICROLAM AS PRODUCED BY THE TRU-JOIST CORPORATION. LAMINATED VENEER LUMBER PRODUCED BY OTHER MANUFACTURERS MAY BE USED PROVIDED THE SAME RATED STRESSES AND MEMBER SIZES EQUAL OR EXCEED THOSE SHOWN ON THE PLANS, AND PRIOR APPROVAL IS GIVEN BY THE ENGINEER.
2. ALL LAMINATED VENEER LUMBER SHALL BE DESIGNED AND MANUFACTURED TO THE STANDARDS SET FORTH IN THE NER-126 REPORT.
3. ALL VENEERS SHALL BE DOUGLAS-FIR OF 1/10" OR 1/8" THICKNESS AND SHALL BE LAMINATED IN A CONTINUOUS PRESS WITH ALL GRAIN PARALLEL WITH THE LENGTH OF THE MEMBER.
4. ALLOWABLE UNIT STRESSES REQUIRED OR DRY CONDITIONS OF USE FOR VENEER LAMINATED LUMBER SHALL BE AS FOLLOWS:

BENDING	2600 PSI
COMPRESSION PARALLEL TO GRAIN	2460 PSI
HORIZONTAL SHEAR	285 PSI
COMPRESSION PERPENDICULAR TO GRAIN	750 PSI
5. LAMINATED VENEER LUMBER MEMBER SIZES SHOWN ARE NET; OTHER MEMBER SIZES ARE NOMINAL.
6. LEAD HOLES FOR LAG SCREWS SHALL BE BORED AS FOLLOWS:
 - A) THE CLEARANCE HOLE FOR THE SHANK SHALL HAVE THE SAME DIAMETER AS THE SHANK, AND THE SAME DEPTH OF PENETRATION AS THE LENGTH OF UNTHREADED SHANK.
 - B) THE LEAD HOLE FOR THE THREADED PORTION SHALL HAVE A DIAMETER EQUAL TO 50% TO 75% OF THE SHANK DIAMETER AND A LENGTH EQUAL TO AT LEAST THE LENGTH OF THE THREADED PORTION. THE LARGER PERCENTILE IN EACH RANGE SHALL APPLY TO LAG SCREWS OF GREATER DIAMETERS.

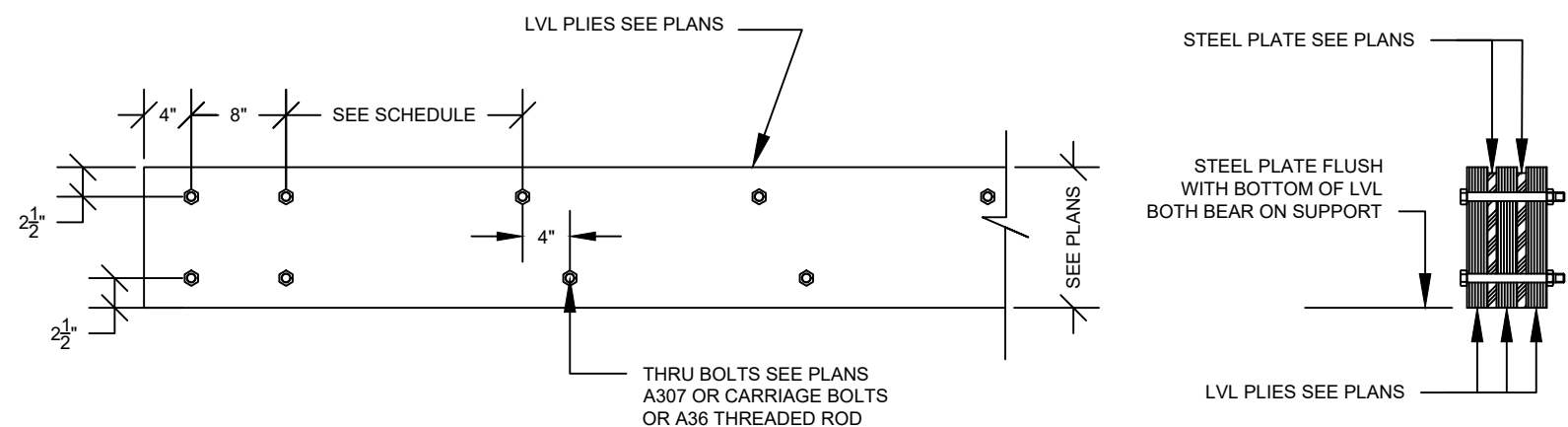
ALL EXISTING MEMBERS AND CONDITION
NEED TO BE FIELD VERIFIED AND THE DESIGN
SHALL BE RECONSIDERED ACCORDINGLY

ALL HEADER POSTS ARE JACK STUDS,
KING STUDS ARE ADDITIONAL

HEADER ASSEMBLY		
2X4 WALL CONSTRUCTION	(2)2X4 + $\frac{1}{2}$ " PLYWOOD	
	(2)2X6 + $\frac{1}{2}$ " PLYWOOD	
	(2)2X8 + $\frac{1}{2}$ " PLYWOOD	
	(2)2X10 + $\frac{1}{2}$ " PLYWOOD	
	(2)2X12 + $\frac{1}{2}$ " PLYWOOD	
	(3) $\frac{1}{2}$ "X 7 $\frac{1}{2}$ " 2.0 LVL	
	(3) $\frac{1}{2}$ "X 9 $\frac{1}{2}$ " 2.0 LVL	
	(3) $\frac{1}{2}$ "X 11 $\frac{1}{2}$ " 2.0 LVL	
	(3) $\frac{1}{2}$ "X 11 $\frac{1}{2}$ " 2.0 LVL	
	(3) $\frac{1}{2}$ "X 14" 2.0 LVL	
(3) $\frac{1}{2}$ "X 16" 2.0 LVL		
(3) $\frac{1}{2}$ "X 18" 2.0 LVL		
(3) $\frac{1}{2}$ "X 20" 2.0 LVL		
(3) $\frac{1}{2}$ "X 22" 2.0 LVL		
(3) $\frac{1}{2}$ "X 24" 2.0 LVL		
2X6 WALL CONSTRUCTION	(3)2X4 + (2) $\frac{1}{2}$ " PLYWOOD	
	(3)2X6 + (2) $\frac{1}{2}$ " PLYWOOD	
	(3)2X8 + (2) $\frac{1}{2}$ " PLYWOOD	
	(3)2X10 + (2) $\frac{1}{2}$ " PLYWOOD	
	(3)2X12 + (2) $\frac{1}{2}$ " PLYWOOD	
	(3) $\frac{1}{2}$ "X 7 $\frac{1}{2}$ " 2.0 LVL + $\frac{1}{2}$ " PLYWOOD	
	(3) $\frac{1}{2}$ "X 9 $\frac{1}{2}$ " 2.0 LVL + $\frac{1}{2}$ " PLYWOOD	
	(3) $\frac{1}{2}$ "X 11 $\frac{1}{2}$ " 2.0 LVL + $\frac{1}{2}$ " PLYWOOD	
	(3) $\frac{1}{2}$ "X 11 $\frac{1}{2}$ " 2.0 LVL + $\frac{1}{2}$ " PLYWOOD	
	(3) $\frac{1}{2}$ "X 14" 2.0 LVL + $\frac{1}{2}$ " PLYWOOD	
(3) $\frac{1}{2}$ "X 16" 2.0 LVL + $\frac{1}{2}$ " PLYWOOD		
(3) $\frac{1}{2}$ "X 18" 2.0 LVL + $\frac{1}{2}$ " PLYWOOD		
(3) $\frac{1}{2}$ "X 20" 2.0 LVL + $\frac{1}{2}$ " PLYWOOD		
(3) $\frac{1}{2}$ "X 22" 2.0 LVL + $\frac{1}{2}$ " PLYWOOD		
(3) $\frac{1}{2}$ "X 24" 2.0 LVL + $\frac{1}{2}$ " PLYWOOD		



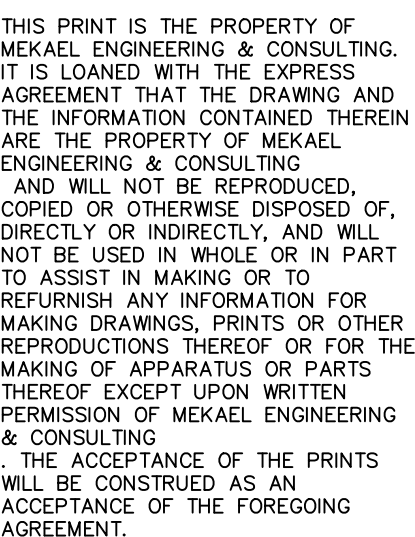
(1) _____ N.T.S



N.T.S

POST SCHEDULE	
P-1	(2)2X4
P-2	(3)2X4
P-3	(4)2X4
P-4	(2)2X6
P-5	(3)2X6
P-6	(4)2X6
P-7	$3\frac{1}{2}"X3\frac{1}{2}"$ 1.8E PSL
P-8	$3\frac{1}{2}"X3\frac{1}{2}"$ 1.8E PSL
P-9	$3\frac{1}{2}"X7"$ 1.8E PSL
P-10	$5\frac{1}{4}"X3\frac{1}{2}"$ 1.8E PSL
P-11	$5\frac{1}{4}"X7"$ 1.8E PSL
P-12	7"X7" 1.8E PSL
P-13	HSS 4"X4"X $\frac{1}{8}"$

LEGEND	
B-XX	BEAM
BP-XX	BASE PLATE
C-XX	STEEL COLUMN CAP
HB-XX	HIP BEAM
HD-XX	HEADER
J-XX	FLOOR JOIST
N.S.V.	NON-STRUCTURAL VALLEY
RB-XX	RIDGE BEAM
RBD-XX	RIDGE BOARD
RJ-XX	ROOF JOIST
P-XX	POST
PFA	POST FROM ABOVE
VB-XX	VALLEY BEAM
FH-XX	FACE MOUNT HANGER
V.I.F	VERIFY IN FIELD
	MOMENT CONNECTION



		
		
		
		
		
		
		
		
		
		
	5 MAR 2026	PERMIT SET
	4 FEB 2026	REVISED PLAN
NO.	DATE	REVISION
ISSUE/REVISION		

PROJECT NAME

WELLNESS CENTER
1849 POST ROAD EAST
WESTPORT , CT

PROJECT NUMBER

183ST25

DRAWING TITLE	
GENERAL NOTES & TYPICAL DETAILS	
SCALE	DRAWN BY
AS NOTED	FM
DATE	CHECKED BY
22-JAN-2026	FM
DRAWING NUMBER	
S-1.0	



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△	5 MAR.2026	PERMIT SET
△	4 FEB.2026	REVISED PLAN
NO.	DATE	REVISION
ISSUE/REVISION		

PROJECT NAME

WELLNESS CENTER
1849 POST ROAD EAST
WESTPORT , CT

PROJECT NUMBER
183ST25

DRAWING TITLE	
FLOOR PLAN	
SCALE AS NOTED	DRAWN BY FM
DATE 22-JAN-2026	CHECKED BY FM
DRAWING NUMBER	

S-2.0



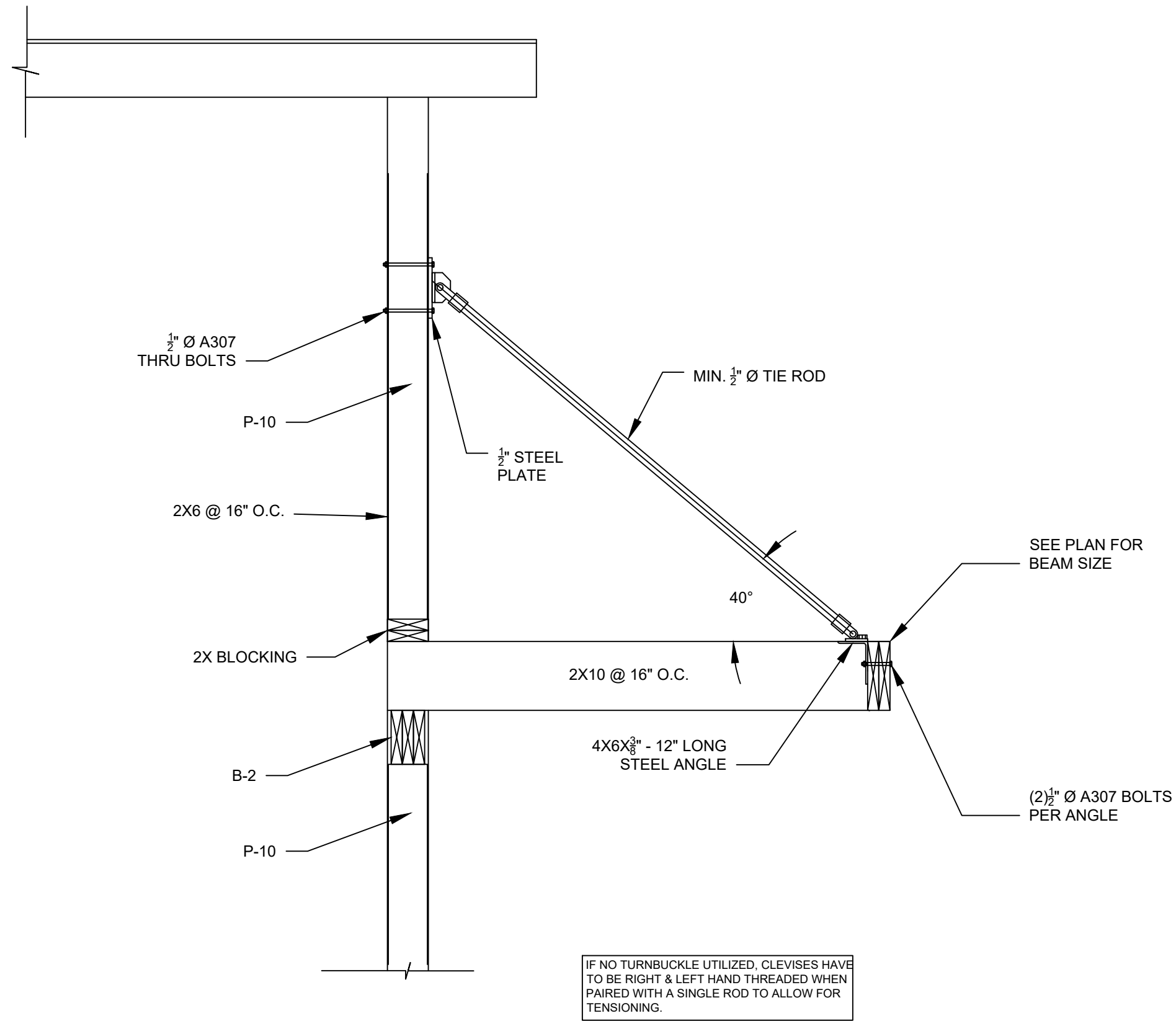
MEMBER No.	SIZE
J-1	11 $\frac{7}{8}$ " TJI 560 @16" O.C.
J-2	11 $\frac{7}{8}$ " TJI 110 @16" O.C.
J-3	2X10 DF @ 16" O.C.

MEMBER No.	SIZE
HD-1	(3)2X12 DF #1

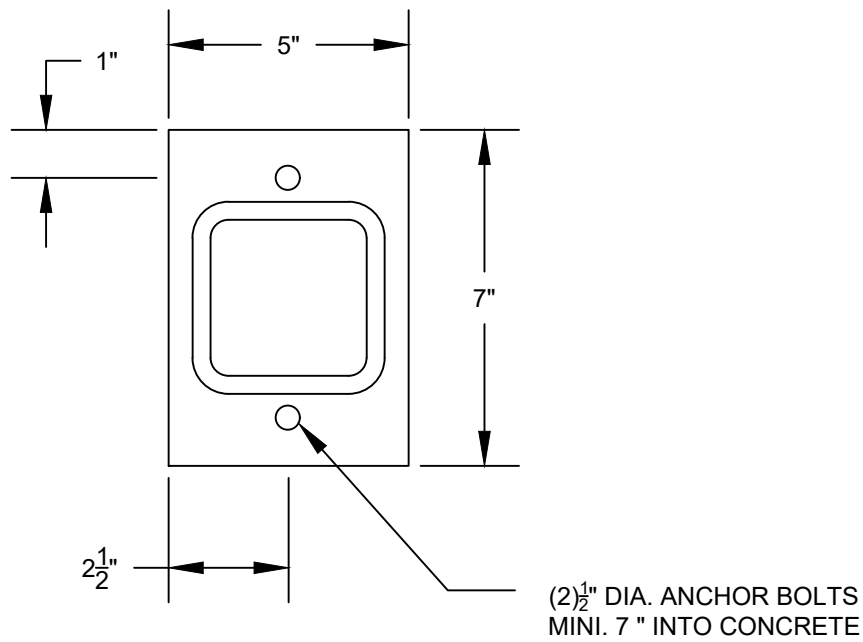
MEMBER No.	SIZE
B-1	W12X53 (A992) ASTM STEEL
B-2	(4)1 $\frac{3}{4}$ "X1 $\frac{1}{8}$ " 2.0E LVL W/(2) ROWS OF SDS25600 SCREWS @ 24" O.C. BOTH SIDES
B-3	(3)1 $\frac{3}{4}$ "X9 $\frac{1}{4}$ " 2.0E LVL W/(2) ROWS OF 10d NAILS @ 12" O.C. BOTH SIDES
B-4	(3)2X10 DF #1
B-5	(3)1 $\frac{3}{4}$ "X9 $\frac{1}{4}$ " 2.0E LVL W/(2) ROWS OF 10d NAILS @ 12" O.C. BOTH SIDES

SHEAR WALL SCHEDULE								
	1	2	3	4	5	6	7	8
TYPE	SHEATHING	EDGE NAILING	BLOCKED DIAPHRAM	FIELD NAILING	ANCHOR BOLTS	HOLD DOWN AT BOUNDARIES	BOUNDARIES STUDS	STRAPPING AROUND OPENINGS
SW-1	(1) SIDED 1/2" STRUCTURAL WOOD PANELS	8d @ 6" O.C. (0.131 X 2 1/2")	YES	8d @ 12" O.C. (0.131 X 2 1/2")		HDU4 W/ SB5/8 x24 EMBEDMENT 18"	(2) 2X6	NO

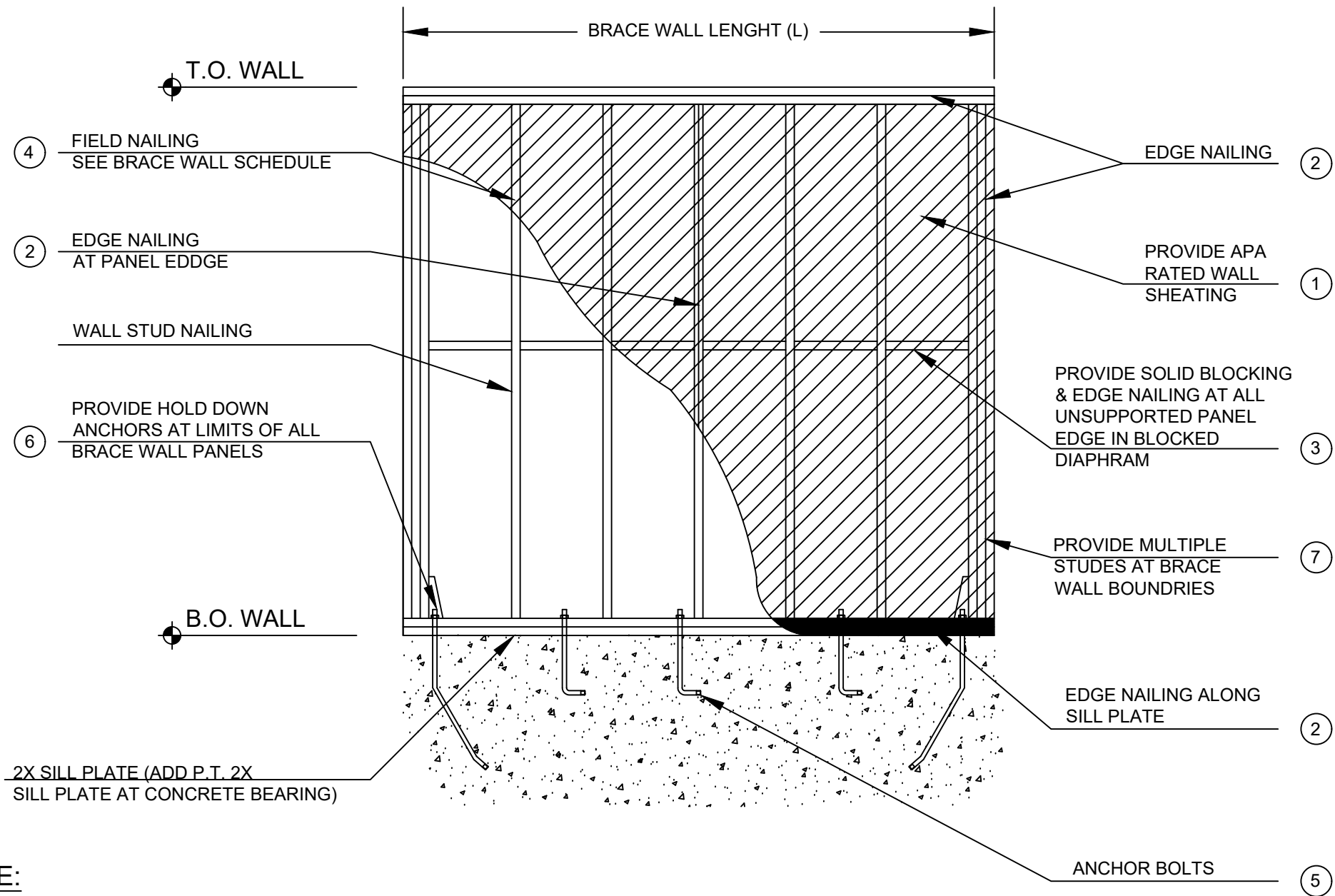
P-1	(2)2X4
P-2	(3)2X4
P-3	(4)2X4
P-4	(2)2X6
P-5	(3)2X6
P-6	(4)2X6
P-7	$3\frac{1}{2}''\text{X}3\frac{1}{2}''$ 1.8E PSL
P-8	$3\frac{1}{2}''\text{X}5\frac{1}{4}''$ 1.8E PSL
P-9	$3\frac{1}{2}''\text{X}7''$ 1.8E PSL
P-10	$5\frac{1}{4}''\text{X}5\frac{1}{4}''$ 1.8E PSL
P-11	$5\frac{1}{4}''\text{X}7''$ 1.8E PSL
P-12	$7''\text{X}7''$ 1.8E PSL
P-13	HSS $4''\text{X}4''\text{X}\frac{1}{8}''$



1 CANOPY CROSS SECTION
Scale: 3/4" = 1'



2 BP-01 (7"X5"X1/2") BASEPLATE
Scale: 3"=1'-0"



NOTE:
OPENINGS NOT SHOWN FOR CLARITY, SEE
"TYPICAL OPENING IN BRACE WALLS"

3 TYPICAL ONE STORY BRACE WALL SECTION DETAIL
SCALE : 1/2" =1'-0"



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NO.	DATE	REVISION

ISSUE/REVISION

PROJECT NAME

WELLNESS CENTER
1849 POST ROAD EAST
WESTPORT , CT

PROJECT NUMBER

183ST25

DRAWING TITLE

TYPICAL DETAILS

SCALE	DRAWN BY
AS NOTED	FM
DATE	CHECKED BY
22-JAN-2026	FM

DRAWING NUMBER

S-3.0

MECHANICAL SYMBOLS - GENERAL	
	NEW PIPING, DUCTWORK, OR EQUIPMENT
	EXISTING PIPING, DUCTWORK, OR EQUIPMENT TO REMAIN
	EXISTING PIPING, DUCTWORK, OR EQUIPMENT TO BE REMOVED
	NEW EQUIPMENT
	EXISTING EQUIPMENT TO BE REMOVED
	EXISTING EQUIPMENT TO REMAIN
	EXISTING EQUIPMENT TO BE REMOVED AND RELOCATED
	RELOCATED POSITION OF EXISTING EQUIPMENT
	CONTINUATION FOR DUCTWORK OR PIPING
	TYPE OF EQUIPMENT (AIR HANDLING UNIT) UNIT NUMBER (2ND AIR HANDLER ON THE 3RD FLOOR)
	POINT OF CONNECTION (OF NEW WORK TO EXISTING WORK)
	POINT OF DISCONNECTION (TO REMOVE AND PATCH EXISTING WORK)
	DRAWING NOTE TAG
	REVISION SYMBOL
	SECTION DESIGNATION ON DRAWING WHERE SECTION IS CUT A - SECTION DESIGNATION B - DRAWING NO.
	THERMOSTAT OR TEMPERATURE SENSOR TO BE WALL OR DUCT MOUNTED.REFER TO PLANS FOR LOCATION.
	SPEED CONTROLLER
	HIGH TEMPERATURE SENSOR. REFER TO PLANS FOR LOCATION.
	HUMIDISTAT OR HUMIDITY SENSOR TO BE WALL OR DUCT MOUNTED. REFER TO PLANS FOR LOCATION.
	ELECTRIC ON/OFF THERMALLY PROTECTED SWITCH WITH PILOT LIGHT
	SMOKE DETECTOR
	DUCT MOUNTED SMOKE DETECTOR
	EMERGENCY BREAK GLASS SWITCH FOR EQUIPMENT SHUTDOWN
	CARBON DIOXIDE OCCUPANCY DETECTOR
	CARBON MONOXIDE DETECTOR
	LEAK DETECTOR
	TIME CLOCK
	THERMOSTAT/SENSOR WIRING FROM SENSING DEVICE TO CONTROLLED DEVICE
	AIRFLOW MEASURING STATION
	STATIC PRESSURE SENSOR
	STARTER / DISCONNECT SWITCH
	STARTER
	DISCONNECT

MECHANICAL SYMBOLS - DUCTWORK		
		DUCT SIZE (FIRST FIGURE INDICATES HORIZONTAL SIZE)
		ROUND DUCT DIAMETER
		SUPPLY DUCT UP
		SUPPLY DUCT DOWN
		RETURN OR EXHAUST DUCT UP
		RETURN OR EXHAUST DUCT DOWN
		ACOUSTICAL LINING IN DUCT
		TRANSITION FROM RECTANGULAR TO ROUND OR OVAL DUCT
		ACCESS DOOR IN DUCT
		SLOPING RISE IN DUCT IN DIRECTION OF ARROW
		SLOPING DROP IN DUCT IN DIRECTION OF ARROW
		MITERED ELBOW WITH TURNING VANES
		RADIUS ELBOW (INNER RADIUS = WIDTH)
		DUCT SPLIT
		90° BRANCH TAP (USE 45° BOOT, OR CONICAL TAP FOR BRANCH SERVING A SINGLE DIFFUSER/REGISTER ONLY)
		45° BRANCH TAP
		SPLIT (SUPPLY) OR CONVERGENCE (RETURN/EXHAUST) RADIUS ELBOW TYPE
		SPLIT (SUPPLY) OR CONVERGENCE (RETURN/EXHAUST) MITERED ELBOW TYPE WITH TURNING VANES
		SPLIT (SUPPLY) OR CONVERGENCE (RETURN/EXHAUST) BULLHEAD TYPE
		OFFSET (WITH RADIUS ELBOWS)
		SUPPLY REGISTER
		RETURN OR EXHAUST REGISTER
		VOLUME DAMPER
		FIRE DAMPER W/DUCT ACCESS DOOR (FD/AD)
		MOTORIZED DAMPER W/DUCT ACCESS DOOR
		COMBINATION FIRE/SMOKE DAMPER W/DUCT ACCESS DOOR
		SMOKE DAMPER W/DUCT ACCESS DOOR
		FLEXIBLE CONNECTION
		FLEXIBLE DUCT
		SUPPLY SIDEWALL LINEAR DIFFUSER (W/SHEET METAL PLENUM W/1" LINING & BRANCH CONN FOR EVERY 4' OF LINEAR DIFFUSER)
		MODULAR LINEAR DIFFUSER WITH PLENUM

MECHANICAL SYMBOLS - DUCTWORK (CONTINUED)		
		BRANCH TAKEOFF TO CEILING DIFFUSER/REGISTER
	SUPPLY CEILING DIFFUSER (4-WAY BLOW)	
	SUPPLY CEILING DIFFUSER (3-WAY BLOW)	
	SUPPLY CEILING DIFFUSER (2-WAY BLOW)	
	SUPPLY CEILING DIFFUSER (1-WAY BLOW)	
	RETURN CEILING GRILLE OR REGISTER	
	TERMINAL BOX (CV, VAV, FP). DESIGNATION INDICATES TYPE, BOX SIZE,AND CFM. QUANTITY (REFER TO SCHEDULES).	
	TERMINAL BOX WITH REHEAT COIL (CV, VAV, FP). DESIGNATION INDICATESTYPE, BOX SIZE AND CFM. QUANTITY	
	DOOR LOUVER	
	UNDERCUT DOOR	
	COIL HC=HEATING COIL CC=COOLING COIL PHC=PREHEAT COIL	
	TRANSFER GRILLES ON BOTH SIDES OF WALL/PARTITION AND SQ. FT. OPENING SIZE	
	TRANSFER OPENING IN WALL/PARTITION AND SQ. FT. OPENING SIZE	
	FAN (RISER)	
	CEILING MOUNTED INLINE EXHAUST FAN (WITH FLEX CONNECTION AT INLET& OUTLET)	

CONNECTICUT STATE CODES & STANDARDS

- 2022 CONNECTICUT STATE BUILDING CODE
- 2023 NATIONAL ELECTRICAL CODE (NFPA-70)
- 2021 INTERNATIONAL BUILDING CODE WITH AMENDMENTS
- 2021 INTERNATIONAL PLUMBING CODE WITH AMENDMENTS
- 2021 INTERNATIONAL MECHANICAL CODE WITH AMENDMENTS
- 2021 INTERNATIONAL FUEL GAS CODE WITH AMENDMENTS
- 2021 INTERNATIONAL FIRE CODE WITH AMENDMENTS
- LOCAL FIRE DEPARTMENT/FIRE MARSHAL
- ALL OTHER LOCAL AUTHORITIES HAVING JURISDICTION

CONNECTICUT STATE ENERGY CODES

- 2021 INTERNATIONAL ENERGY CONSERVATION CODE WITH AMENDMENTS

REFERENCE STANDARDS

APPLICABLE REFERENCE STANDARDS SHALL BE AS REFERENCED BY ALL STATE AND LOCAL CODES. THE LIST BELOW IS FOR QUICK REFERENCE AND DOES NOT INCLUDE ALL APPLICABLE REFERENCE STANDARDS.

- 2019 NFPA 13 - STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS
- 2019 NFPA 14 - STANDARD FOR THE INSTALLATION OF STANDPIPE AND HOSE SYSTEMS
- 2019 NFPA 20 - STANDARD FOR THE INSTALLATION OF STATIONARY PUMPS FOR FIRE PROTECTION
- 2023 NFPA 70 - NATIONAL ELECTRICAL CODE
- 2019 NFPA 72 - NATIONAL FIRE ALARM AND SIGNALING CODE
- 2021 NFPA 101- LIFE SAFETY CODE

MECHANICAL DRAWINGS LIST

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M-001	MECHANICAL COVER SHEET
M-002	MECHANICAL GENERAL NOTES
M-003	MECHANICAL GENERAL NOTES
M-101	MECHANICAL FLOOR PLAN
M-200	MECHANICAL DETAILS
M-201	MECHANICAL DETAILS
M-202	MECHANICAL DETAILS
M-301	MECHANICAL SCHEDULES
M-401	MECHANICAL SPECIFICATIONS

MECHANICAL ABBREVIATIONS	
ACU	AIR CONDITIONING UNIT
AD	ACCESS DOOR
AHU	AIR HANDLING UNIT
ATC	AUTOMATIC TEMPERATURE CONTROL
B(500)	DIFFUSER TYPE - REFER TO SCHEDULE
BMS	BUILDING MANAGEMENT SYSTEM
BTU	BRITISH THERMAL UNIT
CC	COOLING COIL
CFM	CUBIC FEET PER MINUTE
CG	CEILING GRILLE
CHWP	CHILLED WATER PUMP
CP	CONDENSATE PUMP
CR	CEILING REGISTER
CUH	CABINET UNIT HEATER
CV	CONSTANT VOLUME
CWP	CONDENSER WATER PUMP
DC	DRY COOLER
DX	DIRECT EXPANSION
E	EXISTING
EAT	ENTERING AIR TEMPERATURE
EF	EXHAUST FAN
EG	EXHAUST GRILLE
ER	EXISTING EQUIPMENT TO REMOVED
ERR	EXISTING EQUIPMENT TO REMOVED AND RELOCATED
EW	ENTER WATER TEMPERATURE
FXC	FLEXIBLE CONNECTION
FC	FAN COIL
FD	FIRE DAMPER WITH ACCESS DOOR
FLA	FULL LOAD AMPS
FPI	FIN PER INCH
FTR	FIN TUBE RADIATION
GPM	GALLONS PER MINUTE
GX	GENERAL EXHAUST
HWP	HOT WATER PUMP
HX	HEAT EXCHANGER
HZ	HERTZ
IU	INDUCTION UNIT
KW	KILOWATT
KX	KITCHEN EXHAUST
LAT	LEAVING AIR TEMPERATURE
MBH	THOUSAND BTU PER HOUR
MCA	MINIMUM CIRCUIT AMPS
MD	MOTORIZED DAMPER
NC	NORMALLY CLOSED
NIC	NOT IN CONTRACT
NK	NECK SIZE
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OAI	OUTSIDE AIR INTAKE
OED	OPEN END DUCT
PPH	POUNDS PER HOUR
PH	PHASE
PSI	POUND PER SQUARE INCH
PSIA	POUNDS PER SQUARE INCH ABSOLUTE
PSIG	POUNDS PER SQUARE INCH GAUGE
RE	RELOCATED POSITION OF EXISTING EQUIPMENT
RF	RETURN FAN
SD	SMOKE DETECTOR
TD	TRANSFER DUCT
TAO	TRANSFER AIR OPENING
TR	TOP REGISTER
TX	TOILET EXHAUST
TYP	TYPICAL
VN	VENT
V	VOLTS
VAV	VARIABLE AIR VOLUME
VD	VOLUME DAMPER
VFD	VARIABLE FREQUENCY DRIVE
WMS	WIRE MESH SCREEN



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#	Description	Date
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Project Location:

Wellness Center

1849 Post Rd E
Westport, CT 06880

Project Number 26-01071

Designed By PA

Checked By PA

Issued for:

PERMIT

Sheet Title:

MECHANICAL COVER
SHEET

Sheet Number:

M-001

MECHANICAL GENERAL NOTES	
1.	THESE DRAWINGS ARE GENERALLY DIAGRAMMATIC AND ARE INTENDED TO CONVEY THE SCOPE OF WORK AS WELL AS INDICATE GENERAL ARRANGEMENT OF EQUIPMENT, DUCTWORK AND PIPING. THE CONTRACTOR SHALL ADHERE TO THESE DRAWINGS AS CLOSELY AS POSSIBLE. HOWEVER, THE RIGHT IS RESERVED TO VARY THE RUNS OF DUCTWORK AND PIPING AND TO MAKE OFFSETS, WHERE NECESSARY, TO ACCOMMODATE CONDITIONS ARISING AT THE JOB SITE. THE CONTRACTOR SHALL PREPARE SHOP DRAWINGS TO BE SUBMITTED TO THE ENGINEER FOR APPROVAL. NO WORK SHALL BE PERFORMED PRIOR TO RECEIPT OF EQUIPMENT, DUCTWORK, AND PIPING FABRICATION SHOP DRAWING APPROVAL.
2.	THE DRAWINGS AND SPECIFICATIONS SHALL BE INTERPRETED SO AS TO REQUIRE THE MOST SUBSTANTIAL AND COMPREHENSIVE PERFORMANCE OF THE WORK, CONSISTENT WITH THE INTENT AND REQUIREMENTS OF THE CONTRACT DOCUMENTS, AND SUCH WORK SHALL BE PERFORMED BY THE CONTRACTOR WITHOUT EXTRA COST TO THE OWNER. IN THE CASE OF A DISCREPANCY WITHIN THE CONTRACT DOCUMENTS, THE WORST CASE OR HIGHEST COST SHALL APPLY FOR BIDDING PURPOSES. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCY VIA RFI PRIOR TO PERFORMING THE ASSOCIATED WORK.
3.	ANY MATERIAL, WORK, OR INCIDENTAL ACCESSORIES OR MINOR DETAILS NOT SHOWN BUT NECESSARY TO MAKE THE WORK COMPLETE IN ALL RESPECTS AND READY FOR OPERATION, EVEN IF NOT PARTICULARLY SHOWN ON THE DRAWINGS, SHALL BE PROVIDED BY THE CONTRACTOR WITHOUT ADDITIONAL EXPENSE TO THE OWNER.
4.	DUCT SIZES SHOWN ON DRAWINGS ARE CLEAR INSIDE DIMENSIONS. WHERE ACOUSTICALLY LINED DUCT IS SPECIFIED, OUTER DUCT DIMENSIONS SHALL BE INCREASED TO ACCOMMODATE LINING.
5.	WHERE WORK IS INDICATED TO BE BY OTHER CONTRACTORS, FOR EXAMPLE: "BY GENERAL CONSTRUCTION CONTRACTOR", THIS WORK IS NOT IN THE HVAC/MECHANICAL CONTRACT. EACH CONTRACTOR WILL BE RESPONSIBLE FOR CLOSE COORDINATION WITH OTHER CONTRACTORS' WORK.
6.	REFER TO APPROPRIATE SPECIFICATION SECTION FOR EQUIPMENT SELECTION PARAMETERS WHERE DRAWINGS DO NOT CONTAIN EQUIPMENT SCHEDULES.
7.	FOR AIR SYSTEMS, THE MECHANICAL CONTRACTOR SHALL INCLUDE IN BID PRICING SUPPLYING AND INSTALLING BRANCH VOLUME DAMPERS FOR ALL SUPPLY, RETURN, AND EXHAUST BRANCH DUCTWORK, REGARDLESS IF VOLUME DAMPERS ARE NOT SHOWN IN CONTRACT DOCUMENTS. ALL VOLUME DAMPERS SHALL BE ADJUSTABLE HANDLE TYPE FOR LAY-IN ACCESSIBLE CEILING OR CABLE OPERATED FOR CONCEALED TYPE OF CEILING. ALL BRANCH DUCT VOLUME DAMPERS SERVING DIFFUSERS IN GYPSUM BOARD CEILINGS (OR OTHERWISE INACCESSIBLE) SHALL BE REMOTELY (CORD OR CABLE) OPERABLE THROUGH THE FACE OF THE DIFFUSER.
8.	INSTALL THERMOSTATS, FAN SPEED CONTROLLERS, AND OTHER ROOM OCCUPANT ADJUSTABLE CONTROL DEVICES 4'-0" ABOVE FINISHED FLOOR OR AS DIRECTED OTHERWISE BY ARCHITECT. COORDINATE EXACT LOCATIONS WITH THE ARCHITECTURAL PLANS. DEVICE COLORS TO BE SELECTED BY THE ARCHITECT. MANUFACTURER'S LOGO SHALL NOT BE EXPOSED.
9.	AC UNITS SHOWN ON DRAWINGS ARE SCHEMATIC. SEE AC UNIT DETAIL ON DETAIL SHEET FOR ACTUAL TYPICAL ARRANGEMENT REQUIRED.
10.	WHERE PIPING CONNECTIONS FOR EQUIPMENT SUCH AS PUMPS, AC UNITS, COILS, ETC. DIFFER FROM THE LINE SIZE PIPING, IT SHALL BE THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR TO FURNISH AND INSTALL THE NECESSARY REDUCER/EXPANDER FITTINGS TO ENABLE CONNECTION BETWEEN THE PIPING SYSTEM AND THE EQUIPMENT.
11.	PROVIDE UL LISTED AND LABELED FIRE DAMPERS AT ALL DUCT PENETRATIONS THROUGH FIRE RATED WALLS AND FLOORS, REGARDLESS IF FIRE DAMPERS ARE NOT SHOWN IN CONTRACT DOCUMENTS. PROVIDE 1-1/2 HOUR RATED FIRE DAMPERS AT WALLS/FLOORS WITH 2 HOUR OR LESS RATING. PROVIDE 3 HOUR RATED FIRE DAMPERS AT WALLS/FLOORS WITH 3 HOUR OR MORE RATING. ALL FIRE DAMPERS SHALL BE TYPE "B" WITH SHUTTER OUT OF AIRSTREAM AND SHALL BE RATED FOR DYNAMIC AIRFLOW CONDITIONS 2,000 FT/MIN AND 4.0 IN-WC. PROVIDE ACCESS DOORS IN DUCTWORK, 18"x18" UNLESS OTHERWISE NOTED. COORDINATE WITH GENERAL CONTRACTOR FOR LOCATIONS AND SIZES OF ACCESS DOORS IN GENERAL CONSTRUCTION.
12.	PROVIDE FIRESTOPPING FOR ALL DUCT AND PIPE PENETRATIONS THROUGH FIRE RATED PARTITIONS.
13.	THE MECHANICAL CONTRACTOR SHALL INCLUDE IN BID PRICING SUPPLYING AND INSTALLING THERMOSTATS FOR ANY EQUIPMENT THAT REQUIRES CONTROL, SUCH AS VAV BOXES, FCU, FANS, HEATERS, FINNED TUBE RADIATION, RTU'S, ETC., REGARDLESS IF THERMOSTATS ARE NOT SHOWN IN CONTRACT DOCUMENTS. ALL THERMOSTATS SHALL BE DIRECT DIGITAL PROGRAMMABLE TYPE, UNLESS OTHERWISE NOTED. PROVIDE ONE THERMOSTAT FOR EACH FAN COIL UNIT, FAN UNIT, VAV, FPB, ENTRANCE HEATER, BASEBOARD RADIATION, ETC. THERMOSTAT LOCATIONS SHALL BE AS SHOWN ON PLANS AND/OR WHERE DIRECTED AND APPROVED BY THE ARCHITECT AND ENGINEER.
14.	BORDER TYPES AND METHOD OF ATTACHMENT FOR ALL DIFFUSERS, GRILLES, AND REGISTERS SHALL BE COORDINATED WITH THE ARCHITECTURAL CEILING DETAILS AND SPECIFICATIONS.
15.	REFER TO SPECIFICATIONS FOR ACOUSTIC LINING REQUIREMENTS NOT SHOWN ON THE DRAWINGS.
16.	THE MECHANICAL CONTRACTOR SHALL INCLUDE IN BID PRICING SUPPLYING AND INSTALLING CONDENSATE PIPING FOR ALL COOLING TYPE EQUIPMENT REGARDLESS IF CONDENSATE PIPING IS NOT SHOWN IN CONTRACT DOCUMENTS. ALL CONDENSATE PIPING SHALL BE INSULATED AND ROUTED TO NEAREST DRAIN OR JANITORS CLOSET. IF NO CONDENSATE PIPING IS SHOWN, CONTRACTOR MUST REQUEST CONDENSATE PIPING ROUTING THRU RFI PROCESS DURING BIDDING.
17.	GENERAL NOTES, SYMBOLS, ABBREVIATIONS, AND DETAILS ARE APPLICABLE TO ALL HVAC/MECHANICAL DRAWINGS.

MECHANICAL GENERAL NOTES	
18.	RELOCATE EXISTING WORK THAT INTERFERES WITH WORK OF THIS CONTRACT.
19.	COORDINATE THIS WORK WITH THAT OF OTHER TRADES.
20.	DIMENSIONS SHOWN ON PLAN ARE HORIZONTAL. DIMENSIONS SHOWN IN ELEVATION ARE VERTICAL, EXCEPT IN WAY OF STRUCTURAL STEEL, DIMENSIONS ARE MEASURED PERPENDICULAR TO FLANGE.
21.	PRODUCT INSTALLATION SHALL ADHERE TO MANUFACTURERS' RECOMMENDATIONS.
22.	PROVIDE ACCESS PANELS IN DUCTWORK IN ACCORDANCE WITH MANUFACTURERS' RECOMMENDATIONS FOR ALL CONCEALED EQUIPMENT THAT REQUIRES PERIODIC SERVICE, INCLUDING AIR CONDITIONING UNITS, FANS, CONDENSATE PUMPS, FIRE DAMPERS, COMBINATION FIRE/SMOKE DAMPERS, AND DUCT MOUNTED SMOKE DETECTORS. COORDINATE WITH GENERAL CONTRACTOR FOR LOCATIONS AND SIZES OF ACCESS DOORS IN GENERAL CONSTRUCTION.
23.	PROVIDE HANGERS, INSERTS, ANCHORS, SUPPLEMENTAL STEEL & SUPPORTS AS REQUIRED TO SUPPORT DUCTWORK, PIPING AND EQUIPMENT FROM STRUCTURE.
24.	SCHEDULE WORK OF THIS SECTION TO AVOID INTERFERING WITH EXISTING OPERATIONS IN THE FACILITY.
25.	COORDINATE ALL ROOF PENETRATIONS WITH THE WORK OF OTHER SECTIONS AND WITH FLASHING REQUIREMENTS. COORDINATE ALL ROOF PENETRATION LOCATIONS WITH THE OWNER/LANDLORD. NOTIFY THE OWNER/LANDLORD PRIOR TO STARTING WORK AND VERIFY COMPLIANCE WITH BOND AND WARRANTY OF THE ROOF.
26.	RUN DUCTS AND PIPING CONCEALED, UNLESS OTHERWISE SPECIFIED, AND CLEAR OF CEILING INSERTS.
27.	PROVIDE CLEARANCE IN FRONT OF ALL ELECTRIC CONTROL PANELS PER N.E.C. AND EQUIPMENT MANUFACTURERS' REQUIREMENTS.
28.	ALL MOTOR STARTERS FOR HVAC EQUIPMENT SHALL BE FURNISHED BY THE MECHANICAL CONTRACTOR AND INSTALLED/WIRED BY THE ELECTRICAL CONTRACTOR, UNLESS OTHERWISE NOTED.
29.	ALL DISCONNECT SWITCHES FOR HVAC EQUIPMENT SHALL BE FURNISHED, INSTALLED, AND WIRED BY THE ELECTRICAL CONTRACTOR, UNLESS INTEGRAL TO HVAC EQUIPMENT OR OTHERWISE NOTED.
30.	USE FLAT TRANSVERSE SEAM FOR DUCTWORK WHERE SPACE AVAILABLE DICTATES.
31.	BRANCH DUCTS TO INDIVIDUAL DIFFUSERS AND REGISTERS SHALL BE THE SAME SIZE AS THE DIFFUSER OR REGISTER NECK, UNLESS OTHERWISE NOTED.
32.	ALL DUCTWORK AND PIPING SHALL BE INSTALLED TIGHT TO BOTTOM OF STRUCTURAL MEMBERS UNLESS OTHERWISE NOTED OR ABSOLUTELY REQUIRED BY FIELD CONDITIONS.
33.	DO NOT INSTALL DUCTWORK OR PIPING DIRECTLY UNDER AND PARALLEL TO THE WEB OF STRUCTURAL MEMBERS. OFFSET IN ORDER TO ALLOW FUTURE DUCTWORK AND PIPING TO CROSS OVER IN BETWEEN STRUCTURAL MEMBERS.
34.	BRANCH DUCTS TO INDIVIDUAL DIFFUSERS AND REGISTERS SHALL BE PROVIDED WITH VOLUME DAMPERS, WHETHER OR NOT THE VOLUME DAMPERS ARE SHOWN ON PLAN.
35.	VOLUME DAMPERS LOCATED ABOVE INACCESSIBLE CEILINGS SHALL BE CABLE OPERATED TYPE, WITH CABLE OPERATORS LOCATED IN ACCESSIBLE LOCATIONS AND CLEARLY LABELED FOR DIFFUSER OR REGISTER SERVED.
36.	CONDENSATE DRAIN (CD) AND CONDENSATE PUMP DISCHARGE (PD) PIPING SHALL BE RIGID COPPER, TYPE L, MINIMUM 3/4" NOMINAL PIPE SIZE, BRAZED OR SOLDERED, WITH 1" INSULATION, UNLESS OTHERWISE NOTED ON DRAWINGS.
37.	NEW HVAC AIR EQUIPMENT MAY BE USED BY CONTRACTORS DURING CONSTRUCTION FOR TEMPORARY HEATING, COOLING, AND VENTILATION, ONLY UNDER THE FOLLOWING CONDITIONS: 37.1. CONTRACTOR TO PROVIDE TEMPORARY FILTERS IN EACH UNIT DURING CONSTRUCTION, WHICH SHALL BE REPLACED WITH NEW CLEAN FILTERS AFTER GENERAL CONSTRUCTION IS COMPLETED. 37.2. CONTRACTOR TO PROVIDE FILTER FABRIC AT ALL RETURN AND EXHAUST REGISTERS, GRILLES, AND OPENINGS DURING CONSTRUCTION. 37.3. THE WARRANTY PERIOD FOR ALL EQUIPMENT SHALL NOT BEGIN UNTIL CONSTRUCTION IS COMPLETED. IF THE EQUIPMENT MANUFACTURER'S WARRANTY PERIOD BEGINS WHILE THE UNIT USED DURING CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH EXTENDING THE WARRANTY TO PROVIDE THE FULL PERIOD OF COVERAGE TO THE OWNER. 37.4. IF NEW PERMANENT HVAC AIR EQUIPMENT INSTALLED UNDER THIS PROJECT WILL NOT BE OPERATED BY THE CONTRACTOR DURING CONSTRUCTION, ALL OPEN OR INCOMPLETE DUCTWORK SHALL BE CAPPED AIRTIGHT WITH WITH HEAVY POLYETHYLENE PLASTIC. AFTER THE INSTALLATION OF DUCTWORK, REGISTERS, GRILLES, AND DIFFUSERS, THE CONTRACTOR SHALL BLANK OFF ALL REGISTERS, GRILLES, AND DIFFUSERS WITH HEAVY POLYETHYLENE PLASTIC AND TAPE AIR TIGHT, IN AREAS THAT ARE UNDER CONSTRUCTION, UNTIL WORK IS COMPLETE IN THOSE AREAS. 37.5. IF THE ABOVE CONDITIONS ARE NOT MET, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ANY NECESSARY TEMPORARY HEATING, COOLING, AND VENTILATION EQUIPMENT, DUCTWORK, CONTROLS, PIPING, AND POWER AT HIS OWN EXPENSE. 37.6. IF PERMANENT HVAC EQUIPMENT IS USED DURING CONSTRUCTION BUT NOT PROPERLY PROTECTED AS DESCRIBED ABOVE, THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING OUT DUST AND DEBRIS FROM DUCTWORK AND EQUIPMENT, AS WELL AS ANY NECESSARY REPAIR OR REPLACEMENT OF DAMAGED EQUIPMENT AT HIS OWN EXPENSE. 37.7. WHEN GENERAL CONSTRUCTION IS COMPLETE, VACUUM CLEAN ALL DIFFUSERS, REGISTERS, GRILLES, AND HVAC EQUIPMENT IN THE PROJECT AREA OR SERVING THE PROJECT AREA. REMOVE ANY CONSTRUCTION DEBRIS.

MECHANICAL GENERAL NOTES	
38.	DRAWINGS ARE DIAGRAMMATIC, THEREFORE DETERMINE EXACT LOCATIONS OF SYSTEMS AND COMPONENTS IN FIELD.
39.	COORDINATE WORK OF THIS SECTION WITH THAT OF OTHER SECTIONS.
40.	READ SPECIFICATIONS FOR REQUIREMENTS PERTAINING TO THESE DOCUMENTS.
41.	RUN ALL PIPING CONCEALED ALONG THE PATH INDICATED ON THESE DRAWINGS. ALL PIPING SHALL BE INSTALLED ABOVE CEILINGS AND COORDINATED WITH ARCH. DWGS.
42.	ALL WORK SHALL BE COORDINATED WITH ALL TRADES INVOLVED. OFFSETS IN PIPING SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE OWNER.
43.	VERIFY ALL EQUIPMENT CONNECTIONS WITH MANUFACTURER'S CERTIFIED DRAWINGS.
44.	ACCESS PANELS SHALL BE PROVIDED AT ALL LOCATIONS REQUIRED TO CLEAN FINS, ACCESS HEATERS, VALVES AND ALL CONCEALED MECHANICAL EQUIPMENT.
45.	SUPPORT ALL EQUIPMENT & PIPING FROM BLDG. STRUCTURE TO PROVIDE A VIBRATION FREE INSTALLATION. NOTIFY ARCHITECT AND ENGINEER OF ALL WEIGHTS AND METHODS OF SUPPORT.
46.	ALL MATERIALS AND EQUIPMENT SHALL BE NEW.
47.	INSULATE PIPING AS SPECIFIED. PERFORM TESTS SPECIFIED BEFORE INSULATING.
48.	ALL MOTORS SUPPLIED SHALL BE PREMIUM EFFICIENCY IN AGREEMENT WITH ELECTRIC COMPANY REQUIREMENTS.
49.	COORDINATE ALL HVAC WORK AND EQUIPMENT WITH STRUCTURAL MEMBERS, FIRE PROTECTION PIPING, PLUMBING PIPING, LIGHT FIXTURES, ELECTRICAL EQUIPMENT AND OWNER'S EQUIPMENT.
50.	COORDINATE WITH THE ARCHITECTURAL DRAWINGS AS TO THE SIZE AND LOCATION OF ANY ARCHITECTURAL ACCESS DOORS REQUIRED FOR ANY CONCEALED HVAC DEVICE. PROVIDE ACCESS DOOR AT ALL FIRE AND SMOKE DAMPERS (FD/SD).
51.	ALL MECHANICAL WORK SHALL BE DONE IN A NEAT, WORKMANLIKE MANNER, ACCORDING TO ALL STANDARDS & CODES WHICH ARE APPLICABLE, ALL WORK SHALL BE DONE IN ACCORDANCE W/ ALL LOCAL, STATE & FEDERAL CODES HAVING JURISDICTION.
52.	GUARANTEE: THE MECHANICAL CONTRACTOR SHALL GUARANTEE ALL DUCTWORK & EQUIPMENT, ETC. TO BE FREE OF DEFECTS FOR A PERIOD OF ONE YEAR FROM DATE OF ACCEPTANCE BY THE OWNER. ALL DEFECTS SHALL BE REPAIRED DURING THIS PERIOD WITH NO ADDITIONAL COST TO THE OWNER.
53.	WORKMANSHIP: ONLY THE BEST WORKMANSHIP DONE IN ACCORDANCE WITH PRESENT STANDARDS WILL BE ACCEPTABLE. ANY WORK INSTALLED & ADJUDGED TO BE BELOW STANDARDS SHALL BE REMOVED & REPLACED AT THE CONTRACTORS EXPENSE.
54.	PROVIDE ALL MATERIALS AND LABOR NECESSARY TO INSTALL A FULLY FUNCTIONING SYSTEM AS SHOWN ON THESE DRAWINGS.
55.	ALL THERMOSTATS, CONTROLS, ETC. SHALL BE MOUNTED NO MORE THAN 48" ABOVE FINISHED FLOOR.
56.	THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND INSTALLING ALL TEMPERATURE CONTROLS.
57.	PROVIDE FIRE STOP MATERIAL WHERE REQUIRED. PROVIDE IN ALL WALLS AND CEILINGS AFTER WORK IS COMPLETE. FIRE STOPPING MATERIAL SHOULD BE FURNISHED AND INSTALLED BY THE MECHANICAL CONTRACTOR.
58.	PROVIDE FLEXIBLE DUCT CONNECTIONS ON ALL AIR HANDLING UNITS AND EXHAUST FANS. PROVIDE VIBRATION ISOLATION ON ALL EQUIPMENT.
59.	WHERE PIPES ARE NOT INDICATED TO BE IN ARCH. ENCLOSURE (ON ARCH. DWGS.) PROVIDE MATCHING PIPE/VALVE COVERS.
60.	ALL DUCTWORK SHALL BE CONSTRUCTED, SUPPORTED AND INSTALLED PER SMACNA.
61.	WHERE CEILING TYPE IS AN INACCESSIBLE TYPE (I.E. SHEETROCK), PROVIDE VOLUME DAMPER AS SHOWN IN DETAIL SHEET.
62.	COORDINATE ALL WALL ROOF PENETRATIONS WITH STRUCTURAL DRAWINGS AND ROOF STRUCTURE. LOCATIONS SHOWN ARE APPROXIMATE AND SHOULD BE VERIFIED IN FIELD AND ADJUSTED AS REQUIRED.
63.	MECHANICAL CONTRACTOR SHALL PROVIDE SHOP DRAWINGS OF MECHANICAL LAYOUTS BASED ON ACTUAL FIELD CONDITIONS.
64.	RUN ALL DUCTWORK, PIPING, MECHANICAL EQUIPMENT AS TIGHT AS POSSIBLE TO STRUCTURAL FRAMING AND DECKING.



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#	Description	Date

Project Location:

Wellness Center

1849 Post Rd E

Westport, CT 06880

Project Number	26-01071
Designed By	PA
Checked By	PA
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Sheet Title:

MECHANICAL GENERAL NOTES

Sheet Number:

M-002

3/4/2026 4:32:30 PM

MECHANICAL GENERAL NOTES

DUCTWORK - SHEET METAL

1. CERTAIN ITEMS SUCH AS RISES AND DROPS IN DUCTWORK.ACCESS DOORS, VOLUME DAMPERS, ETC., ARE INDICATED ON THE CONTRACT DOCUMENT DRAWINGS FOR CLARITY FOR A SPECIFIC LOCATION REQUIREMENT AND SHALL NOT BE INTERPRETED AS THE EXTENT OF THE REQUIREMENTS FOR THESE ITEMS.
2. CONTRACTOR TO CHECK AND CORRECT ANY AND ALL DEFICIENCIES IN EXISTING DUCTS. ALL NEW DUCTWORK WILL COMPLY WITH THE LATEST SMACNA GUIDELINES AND CONFORM WITH REQUIREMENTS OF THE LATEST HANDBOOKS PUBLISHED BY ASHRAE.
3. PROVIDE VOLUME DAMPER AT EACH TAP TO MAIN DUCT AND WHERE NECESSARY TO PROPERLY BALANCE SYSTEM.
4. SUPPLY AND RETURN DUCTWORK 20' FROM ALL AC UNITS SHALL BE LINED WITH 1.5" ACOUSTICAL LINING.
5. RE-INSULATE ALL DUCTWORK AND PIPING IN WHICH INSULATION HAS BEEN REMOVED OR DAMAGED WITH INSULATION EQUAL TO THE EXISTING INSULATION.
6. CONTRACTOR SHALL SUPPLY AND INSTALL ALL NECESSARY SUPPLY DIFFUSERS AND RETURN AIR REGISTERS WHERE INDICATED ON THE DRAWING. COORDINATE LOCATION OF DIFFUSERS AND REGISTERS WITH REFLECTED CEILING PLAN.
7. IN CORRIDORS WHERE CEILING SPEAKERS AND AIR DIFFUSERS ARE INDICATED BETWEEN THE SAME LIGHT FIXTURES, INSTALL BOTH DEVICES AT THE QUARTER POINTS BETWEEN THE FIXTURES.
8. UNLESS OTHERWISE SHOWN, LOCATE ALL ROOM THERMOSTATS 4'0" (CENTER LINE) ABOVE THE FINISHED FLOOR. NOTIFY THE ENGINEER OF ANY ROOMS WHERE THE PRECEDING LOCATION CANNOT BE MAINTAINED OR WHERE THERE IS A QUESTION ON LOCATION.
9. ALL DUCTWORK SHALL CLEAR DOORS AND WINDOWS.
10. ALL DUCTWORK DIMENSIONS, AS SHOWN ON THE DRAWINGS, ARE INTERNAL CLEAR DIMENSIONS AND DUCT SIZE SHALL BE INCREASED TO COMPENSATE FOR DUCT LINING THICKNESS.
11. PROVIDE ALL 90 DEGREE SQUARE ELBOWS WITH DOUBLE RADIUS TURNING VANES UNLESS OTHERWISE INDICATED. ELBOWS IN DISHWASHER, KITCHEN, AND LAUNDRY EXHAUSTS SHALL BE OF UN-VANED SMOOTH RADIUS CONSTRUCTION WITH A RADIUS EQUAL TO 1-1/2 TIMES THE WIDTH OF THE DUCT. PROVIDE ACCESS DOORS UPSTREAM OF ALL ELBOWS WITH TURNING VANES.
12. COORDINATE DIFFUSER, REGISTER, AND GRILL LOCATIONS WITH ARCHITECTURAL REFLECTED CEILING PLANS, LIGHTING, AND OTHER CEILING ITEMS AND MAKE MINOR DUCT MODIFICATIONS TO SUIT.
13. ALL AIR HANDLING UNITS SHALL OPERATE WITHOUT MOISTURE CARRYOVER.
14. LOCATE ALL MECHANICAL EQUIPMENT (SINGLE DUCT,CONSTANT VOLUME, UNIT HEATERS, ETC.) FOR UNOBSTRUCTED ACCESS TO UNIT ACCESS PANELS, CONTROLS, AND VALVING.
15. PROVIDE FLEXIBLE CONNECTIONS IN ALL DUCTWORK SYSTEMS (SUPPLY, RETURN, AND EXHAUST) CONNECTED TO AIR HANDLING UNITS, FANS, AND OTHER EQUIPMENT THAT REQUIRE VIBRATION ISOLATION. FLEXIBLE CONNECTIONS SHALL BE PROVIDED AT THE POINT OF CONNECTION TO THE EQUIPMENT UNLESS OTHERWISE INDICATED.
16. UNLESS OTHERWISE NOTED, ALL DUCTWORK IS OVERHEAD, TIGHT TO THE UNDERSIDE OF THE STRUCTURE, WITH SPACE FOR INSULATION IF NEEDED.
17. ALL DUCTWORK SHALL BE COORDINATED WITH ALL TRADES INVOLVED. OFFSETS IN DUCTS, INCLUDING DIVIDED DUCTS AND TRANSITIONS AROUND OBSTRUCTIONS, SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE OWNER.
18. PROVIDE ACCESS DOORS IN DUCTWORK TO PROVIDE ACCESS FOR ALL SMOKE DETECTORS, FIRE DAMPERS, SMOKE DAMPERS, VOLUME DAMPERS, HUMIDIFIERS, COILS, AND OTHER ITEMS LOCATED IN THE DUCTWORK THAT REQUIRE SERVICE AND/OR INSPECTION.
19. PROVIDE ACCESS DOORS IN DUCTWORK FOR THE OPERATION, ADJUSTMENT, AND MAINTENANCE OF ALL FANS, VALVES, AND MECHANICAL EQUIPMENT.
20. ALL DUCTS SHALL BE GROUNDED ACROSS FLEXIBLE CONNECTIONS WITH FLEXIBLE COPPER GROUNDING STRAPS. GROUNDING STRAPS SHALL BE BOLTED OR SOLDERED TO BOTH THE EQUIPMENT AND THE DUCT.
21. SMOKE DETECTORS SHALL BE FURNISHED AND WIRED BY THE ELECTRICAL CONTRACTOR THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR MOUNTING THE SMOKE DETECTOR IN DUCTWORK AS SHOWN ON THE DRAWINGS AND IN ACCORDANCE WITH THE MANUFACTURER'S PRINTED INSTRUCTIONS.
22. TERMINATE GAS VENTS FOR GAS APPLIANCES A MINIMUM OF 30 IN. ABOVE THE ROOF WITH RAIN CAP
23. EXTERIOR LOUVERS ARE INDICATED FOR LOCATION AND PERFORMANCE ONLY.
24. EXCEPT AS OTHERWISE SHOWN OR NOTED, ALL DUCTWORK AND OTHER SHEET METAL WORK SHALL BE GALVANIZED SHEET STEEL AND SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITION OF SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION, INC. DUCT CONSTRUCTION STANDARDS, PRESSURE CLASSIFICATION 2 IN. W.G.
25. VOLUME DAMPERS: GALVANIZED STEEL, PER SMACNA "LOW VELOCITY MANUAL," EXCEPT PROVIDE BEARING AT ONE END OF DAMPER ROD AND QUADRANT, WITH LEVER AND LOCKSCREW AT OTHER ENO. FOR INSULATED DUCTS, QUADRANTS MOUNTED ON COLLAR TO CLEAR INSULATION. INSTALL WITH LEVERS ACCESSIBLE

MECHANICAL GENERAL NOTES

26. ACCESS DOORS: INSULATED OR UNINSULATED, SAME AS DUCT
 - A. PROVIDE MINIMUM 20 IN. X 20 IN. (OR EQUIVALENT) ON ALL DUCTS, UNLESS OTHERWISE APPROVED, AT FIRE DAMPERS, AND AT ALL DUCT ACCESSORIES SUCH AS HUMIDIFIERS, DUCT SMOKE DETECTORS, AUTO DAMPERS, AND LOUVERS.
 - B. ACCESS DOORS SHALL BE LOCATED AT THE BOTTOM OF THE DUCT OR ON THE SIDE, AND NOT MORE THAN 16 INCHES FROM THE DUCT ACCESSORY THAT IT SERVES (FIRE DAMPER, FSD, ETC.).
 - C. WHERE DUCT SIZE DOES NOT PERMIT A 20 IN. X 20 IN. (OR EQUIVALENT AREA) ACCESS DOOR, THE ACCESS DOOR SHALL BE FABRICATED OF AN AREA EQUIVALENT TO A 20 IN. X 20 IN. WITH THE SMALLER DIMENSION BEING 2 INCHES SMALLER THAN THE DUCT SIZE WHERE IT WILL BE LOCATED, AND LOCATED NOT LESS THAN 1" FROM ANY DUCT EDGE
 - D. FOR DUCTS WHICH LARGEST DIMENSION IS 12 INCHES (WIDTH AND/OR HEIGHT), IT IS PERMISSIBLE TO PROVIDE A 10 IN. X 10 IN. (OR EQUIVALENT AREA) ACCESS DOOR LOCATED AT THE BOTTOM OR THE SIDE OF THE DUCT.
 - E. ALL ACCESS DOORS TO BE HINGED, WITH LATCH SIMILAR TO VENTLOCK NO. 100.
27. FLEXIBLE CONNECTIONS: NEOPRENE-COATED GLASS FABRIC, 30 OZ PER SQ YD WITH SEWED AND CEMENTED SEAMS, SIMILAR TO VENT FABRICS. PROVIDE WITH METAL COLLARS. ALLOW MINIMUM MOVEMENT OF 1 IN.
28. TURNING VANES: GALVANIZED STEEL SMALL DOUBLE-THICKNESS VANES WITH 2 IN. INSIDE RADIUS.
29. FIRE DAMPERS: UL LISTED, GALVANIZED STEEL CONSTRUCTION, MULTIBLADED TYPE, SPRING LOADED, EQUIPPED WITH FUSIBLE LINK, CONFORMING TO NFPA STANDARD 90A. SIMILAR TO AIR BALANCE MODEL 319-P, RATED AS REQUIRED.
30. DUCTWORK FOR AREAS WITH HIGH HUMIDITY SHALL BE ALUMINUM FABRICATED ONE GAGE LARGER THAN GALVANIZED FOR THE SAME PRESSURE CLASSIFICATION. THESE DUCTS INCLUDE SHOWERS, OUTDOOR AIR INTAKE, HUMIDIFIERS, ETC.
31. ALL DUCT DIMENSIONS INDICATED ON PLANS ARE INSIDE CLEAR DIMENSIONS.
32. AUTOMATIC DAMPERS: COMPLETE WITH LINKAGE AND ELECTRIC OPERATOR. OPPOSED BLADE DAMPER OR GALVANIZED STEEL MIN. 4 IN., MAX. 8 IN. WIDE WITH COMPRESSIBLE EDGE SEALS TO PREVENT LEAKAGE. FACTORY-ASSEMBLE STEEL LINKAGE AND SHAFT WITH NYLON OR OIL-IMPREGNATED BRONZE BEARINGS. MOTOR WITH SUFFICIENT POWER TO LIMIT LEAKAGE TO 10 CFM PER SQ FT. LINKAGE TO WITHSTAND LOAD EQUAL TO TWICE MAXIMUM OPERATING FORCE WITHOUT DEFLECTION. DAMPER MOUNTED IN WELDED STEEL CHANNEL FRAME.
33. WIRE MESH SCREEN (WMS): NO. 16 USSG, 3/4 SQUARE MESH, 1 IN. WIDE GALVANIZED STEEL ENCLOSING FRAME. FLANGED DUCT OPENING TO RECEIVE FRAME.

TESTING AND BALANCING

1. AIR BALANCING SHALL BE ACCOMPLISHED BY ADJUSTMENT OF FANS AND BRANCH DAMPERS FOR MAJOR ADJUSTMENTS. ADJUSTMENT OF TERMINAL DAMPERS AND DEVICES SHALL BE FOR TRIM OR MINOR ADJUSTMENT ONLY. THIS SHALL BE DONE TO PERMIT THE LEAST NOISE GENERATION IN THE TERMINAL AREAS AND UTILIZE MINIMUM FAN ENERGY.
2. UPON COMPLETION OF THE INSTALLATION, THE CONTRACTOR SHALL REBALANCE ANY EXISTING PORTIONS OF AIR DISTRIBUTION SYSTEM AND WATER DISTRIBUTION SYSTEM AFFECTED BY THE RENOVATION AND ALSO BALANCE ALL NEW WORK.
3. THE CONTRACTOR SHALL PROVIDE ALL LABOR, PRESSURE GAUGES, FLOW METERS, SCAVES, AND BELTS REQUIRED TO BALANCE SYSTEMS.
4. BALANCING REPORT SHALL BE PROVIDED ON MSC-TYPE FORMS.
5. FANS, AIR HANDLING UNITS, PUMPS, AND COILS SHALL BE BALANCED TO WITHIN + 5% OF THEIR DESIGN CAPACITIES. ALL OTHER AIR AND WATER QUANTITIES SHALL BE BALANCED TO WITHIN + 10% OF THE DESIGN QUANTITIES.
6. BALANCING AND TESTING SHALL BE PERFORMED AND SUPERVISED BY ONE OF THE FOLLOWING INDEPENDENT FIRMS SPECIALIZING IN TESTING AND BALANCING:
 - A. INDEPENDENT TESTING AND BALANCING, INC.
 - B. AIR CONDITIONING TEST AND BALANCING CORP.
 - C. CFM TESTING AND BALANCING CO.
7. THE PERFORMANCE AND CAPACITY OF ALL SYSTEMS AND EQUIPMENT TO BE DEMONSTRATED BY THE CONTRACTOR.
8. AFTER OCCUPANCY OF THE SPACE, AND APPROVAL OF THE BALANCE REPORTS, THE AIR BALANCE COMPANY SHALL RETURN TO PROVIDE COMFORT BALANCE SERVICES. THE AIR BALANCE COMPANY SHALL ADJUST VOLUME DAMPERS AND VAV TERMINAL UNITS MAXIMUM AND MINIMUM SETTINGS IN RESPONSE TO THE OCCUPANTS REQUIREMENTS. ALLOW ONE HALF DAY MINIMUM PER FLOOR AND UP TO THREE DAYS ON SITE FOR COMFORT BALANCE SERVICES.

MECHANICAL GENERAL NOTES				
AIR OUTLETS				
1. MARGIN TYPES, COLORS, FINISH AND METHODS OF ATTACHMENT FOR ALL DIFFUSERS, GRILLES AND REGISTERS SHALL BE COORDINATED WITH ARCHITECTURAL CEILING AND WALL DETAILS AND SPECIFICATIONS.				
2. FRAME TYPE SUITABLE FOR MOUNTING IN CEILING OR WALL CONSTRUCTION AS INDICATED ON ARCHITECTURAL PLANS				
3. EXACT LOCATION OF ALL AIR OUTLETS AS PER ARCHITECTURAL PLANS				
4. SUITABLE FOR OPERATION AT 20% EXCESS AND 20% LESS THAN NOTED CAPACITY FOR CONSTANT VOLUME SYSTEMS. MANUFACTURER RESPONSIBLE FOR EXAMINING APPLICATION OF EACH OUTLET AND GUARANTEE THAT EACH WILL PROVIDE REQUIRED NC LEVELS AND COMFORT SPACE CONDITIONS WITHOUT DRAFTS THROUGHOUT OPERATING RANGE.				
5. ALL REGISTERS AND DIFFUSERS SHALL BE PROVIDED WITH OPPOSED BLADE VOLUME DAMPERS. DAMPER OPERATING LEVERS SHALL BE ACCESSIBLE AT THE FACE OF AIR OUTLETS.				
6. LINEAR DIFFUSERS: EXTRUDED ALUMINUM CONSTRUCTION, NATURAL ANODIZED FINISH, REMOVABLE CORE, AIR DEFLECTION VANE AND CABLE DAMPER IN EACH BRANCH TAP WITH 3 FT CABLE TO DIFFUSER FACE.				
7. SQUARE DIFFUSERS: DIFFUSERS SHALL BE STEEL CONSTRUCTION .				
8. REGISTERS AND GRILLES:				
a. DUCTED RETURN AND EXHAUST REGISTERS: STEEL CONSTRUCTION WITH VOLUME DAMPER.				
b. FREE RETURN AND EXHAUST REGISTERS IN APARTMENT: STEEL CONSTRUCTION WITHOUT VOLUME DAMPER.				
c. SUPPLY REGISTERS: ALUMINUM CONSTRUCTION ADJUSTABLE DOUBLE DEFLECTION ALUMINUM AIRFOIL LOUVERS, WITH VOLUME DAMPER. PROVIDE AIR EQUALIZING DEFLECTOR WHERE REGISTER COLLAR DUCT IS LESS THAN 2 FT LONG.				
d. TRANSFER GRILLES: STEEL CONSTRUCTION WITHOUT VOLUME DAM				
INSULATION - GENERAL REQUIREMENTS				
ALL INSULATION MATERIALS, INCLUDING JACKETS, FACING, ADHESIVE, COATINGS, AND ACCESSORIES ARE TO BE FIRE HAZARD RATED AND LISTED BY UL USING STEINER TUNNEL TEST METHOD FOR FIRE HAZARD CLASSIFICATION OF BUILDING MATERIALS, STANDARD UL 723 (ASTM E-84), (ASA A2.5-1963). FLAME SPREAD: MAXIMUM 25. FUEL CONTRIBUTED AND SMOKE DEVELOPED: MAXIMUM 50. FLAME PROOFING TREATMENTS SUBJECT TO DETERIORATION FROM MOISTURE OR HUMIDITY ARE NOT ACCEPTABLE.				
DEFINITIONS:				
1.EXPOSED: INDOOR DUCTS, PIPING OR EQUIPMENT LOCATED IN MECHANICAL EQUIPMENT ROOMS AND IN AREAS WHICH WILL BE VISIBLE WITHOUT REMOVING CEILINGS OR OPENING ACCESS PANELS.				
2.CONCEALED: INDOOR DUCTS, PIPING OR EQUIPMENT WHICH IS NOT EXPOSED.				
3.OUTDOOR: DUCTS, PIPING OR EQUIPMENT WHICH IS EXPOSED TO THE WEATHER.				
DUCTWORK INSULATION				
INSULATE ALL DUCTWORK IN ACCORDANCE WITH INSULATION SCHEDULE EXCEPT AS OTHERWISE NOTED.				
	INSULATION SCHEDULE - DUCTWORK			
SERVICE	LOCATION	THICKNES	STYPE	FINISH
SUPP/RET	CONCEALED	1.5"	D-1	VAPORSEAL
INTAKE	ALL	2"	D-1	VAPORSEAL
SUPP/RET	EXPOSED	1.5"	D-1	VAPORSEAL
NON-INSULATED DUCTWORK:				
1.WHERE SOUND LINING IS OF MINIMUM THICKNESS SPECIFIED FOR INSULATION.				
2.AIR CONDITIONING RETURN AIR DUCTWORK EXPOSED IN AIR CONDITIONED SPACES AND INSTALLED IN HUNG CEILINGS WHERE SPACE IMMEDIATELY ABOVE AND BELOW ARE BOTH AIR CONDITIONED.				
MATERIAL:				
1.TYPE 0-1: MINIMUM 1-LB DENSITY FIBERGLASS BLANKET, MAXIMUM 0.28 K-FACTOR AT 75 ADEG F MEAN TEMPERATURE WITH FACTORY-APPLIED FOIL-SKRIM-KRAFT FACING SIMILAR TO MANVILLE MICROLITE.				
2.TYPE 0-2: 3 LB. FIBERGLASS BOARD. THE MAXIMUM K FACTOR SHALL BE 0.23 AT 75 DEG F MEAN TEMPERATURE WITH A MINIMUM DENSITY OF 3 LB. THE INSULATION SHALL BE PROVIDED WITH A FACTORY-APPLIED ALL PURPOSE OR ALL SERVICE FACING. THE INSULATION SHALL BE EQUAL TO MANVILLE TYPE 814 SPIN-GLAS AP.				
3.TYPE 0-3: MINIMUM 6 LB FIBERGLASS BOARD. MAXIMUM 0.22 K-FACTOR AT 75 DEG F MEAN TEMPERATURE WITH FACTORY APPLIED ALL PURPOSE OR ALL SERVICE FACING. SIMILAR TO MANVILLE 817 SPIN-GLAS AP				
INSTALLATION:				
1. FIBERGLASS BLANKET: 2 IN. LAP STRIPS AT ALL SEAMS. SECURE BOTTOM OF ALL DUCTS OVER 24 IN. WIDE WITH MIN. 2 ROWS OF WELD PINS 12 IN. ON CENTER. SECURE ALL SEAMS WITH FOIL VAPOR BARRIER TAPE ANO VAPORSEAL ADHESIVE.				
2. FIBERGLASS BOARD: SEAL JOINTS AND BREAKS IN FACING WITH 3 IN. WIDE TAPE TO MATCH FACING AND ADHERE WITH VAPOR SEAL ADHESIVE. APPLY 5 IN. WIDE TAPE AT CORNERS, WELD PINS ON TOP, SIDES AND BOTTOM.				



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Wellness Center

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Westport, CT 06880

Designed By: _____

Checked By _____ P. _____

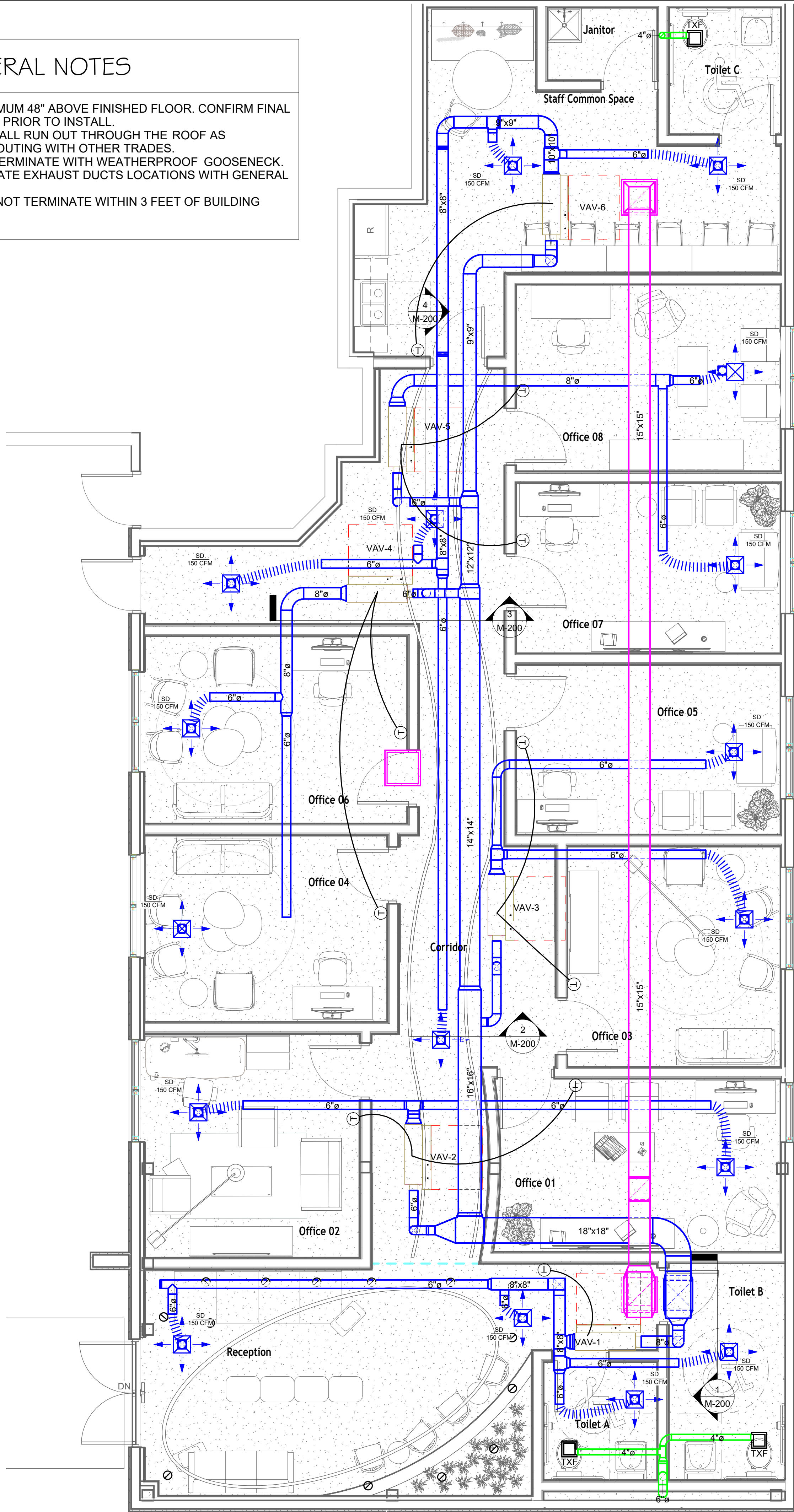
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MECHANICAL GENERAL NOTES

M-003

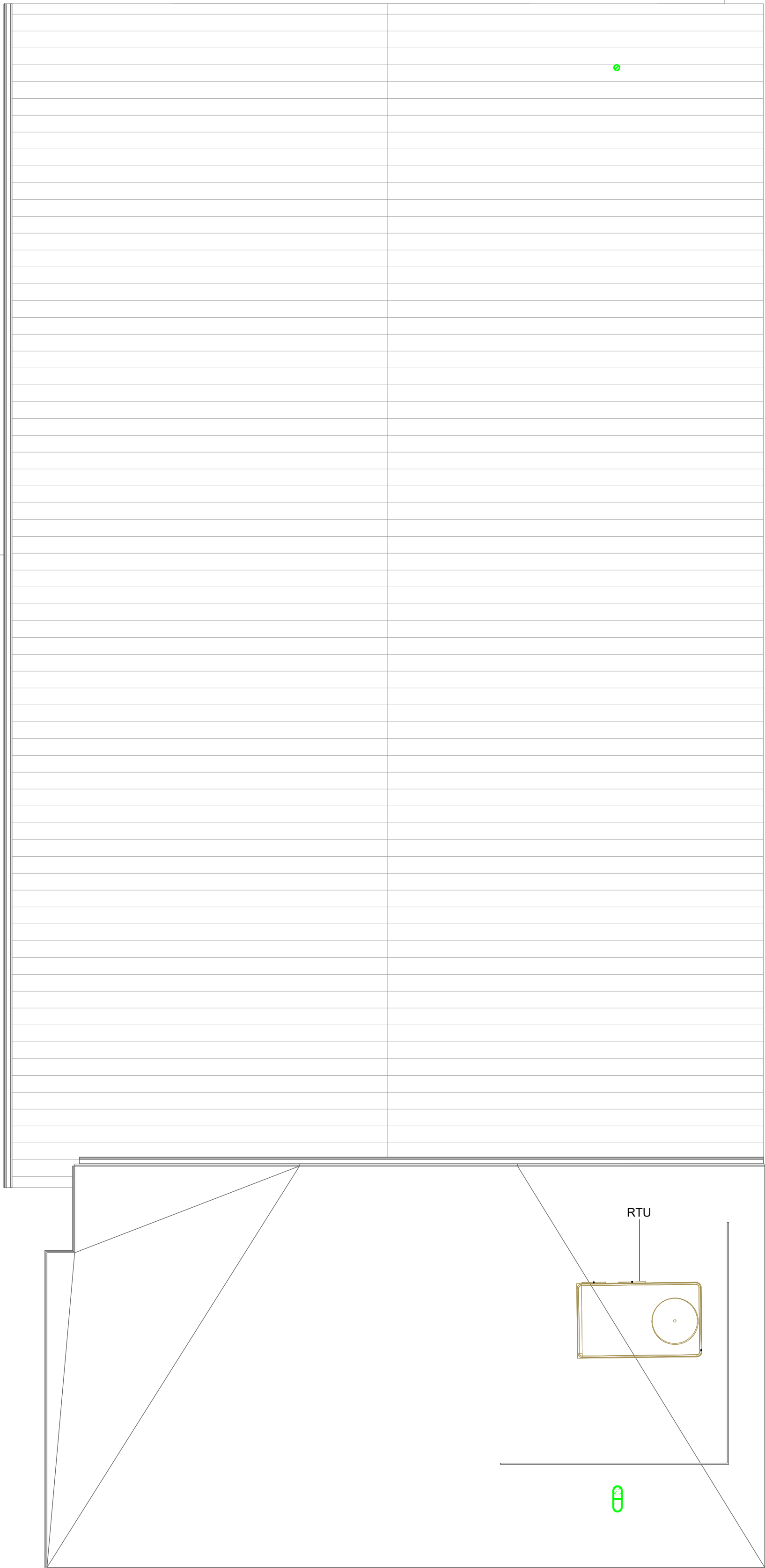
GENERAL NOTES

1. INSTALL THERMOSTAT MINIMUM 48" ABOVE FINISHED FLOOR. CONFIRM FINAL LOCATION WITH ARCHITECT PRIOR TO INSTALL.
2. TOILET EXHAUST DUCTS SHALL RUN OUT THROUGH THE ROOF AS INDICATED. COORDINATE ROUTING WITH OTHER TRADES.
3. ALL EXHAUST DUCT MUST TERMINATE WITH WEATHERPROOF GOOSENECK. CONTRACTOR TO COORDINATE EXHAUST DUCTS LOCATIONS WITH GENERAL CONTRACTOR IN FIELD.
4. ALL EXHAUST DUCT SHALL NOT TERMINATE WITHIN 3 FEET OF BUILDING OPENINGS.



1 MECHANICAL FIRST FLOOR PLAN
1/4" = 1'-0"

2 MECHANICAL ROOF PLAN
3/16" = 1'-0"



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Sheet Title:

MECHANICAL FLOOR
PLAN

Sheet Number:

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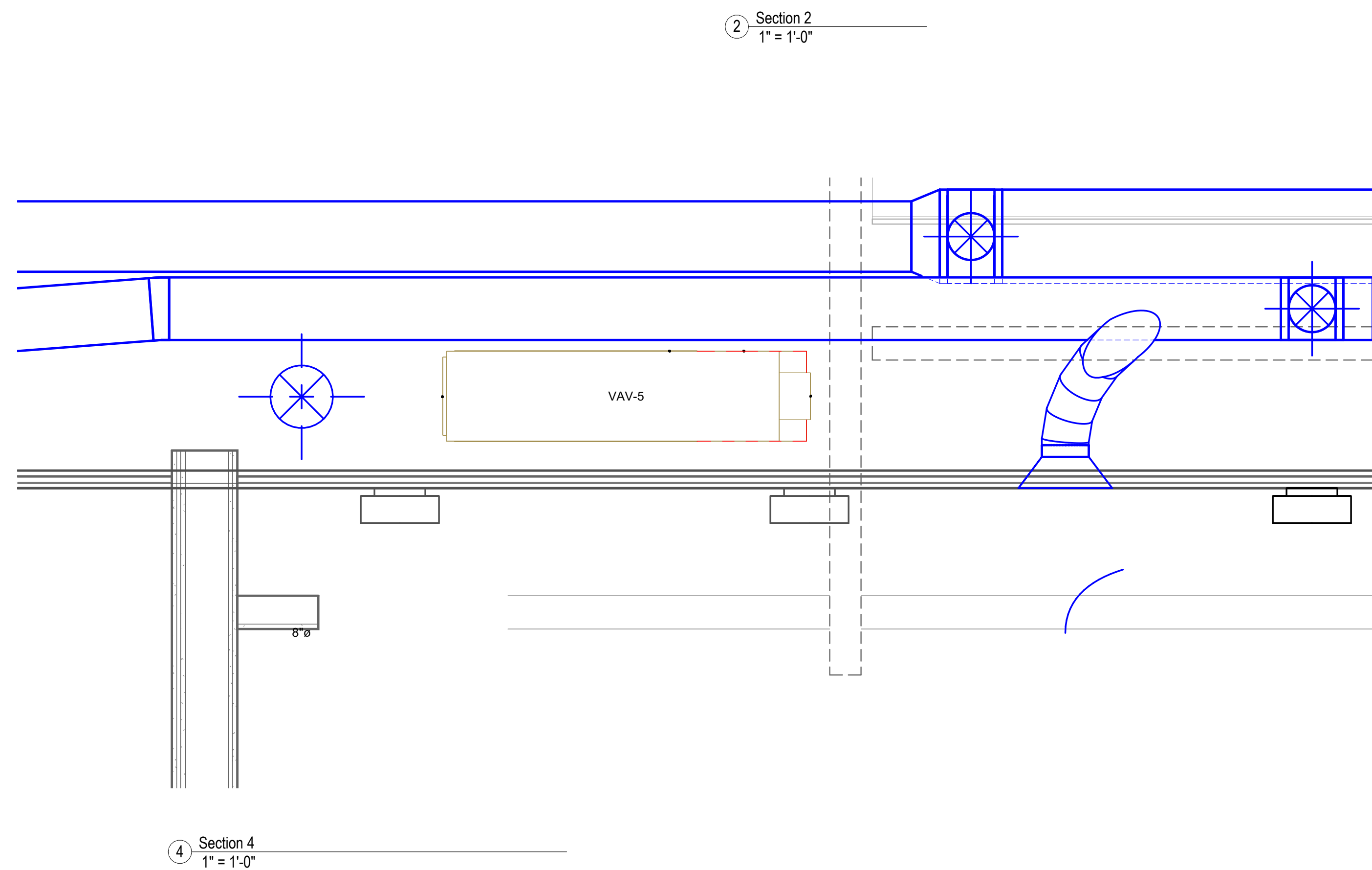
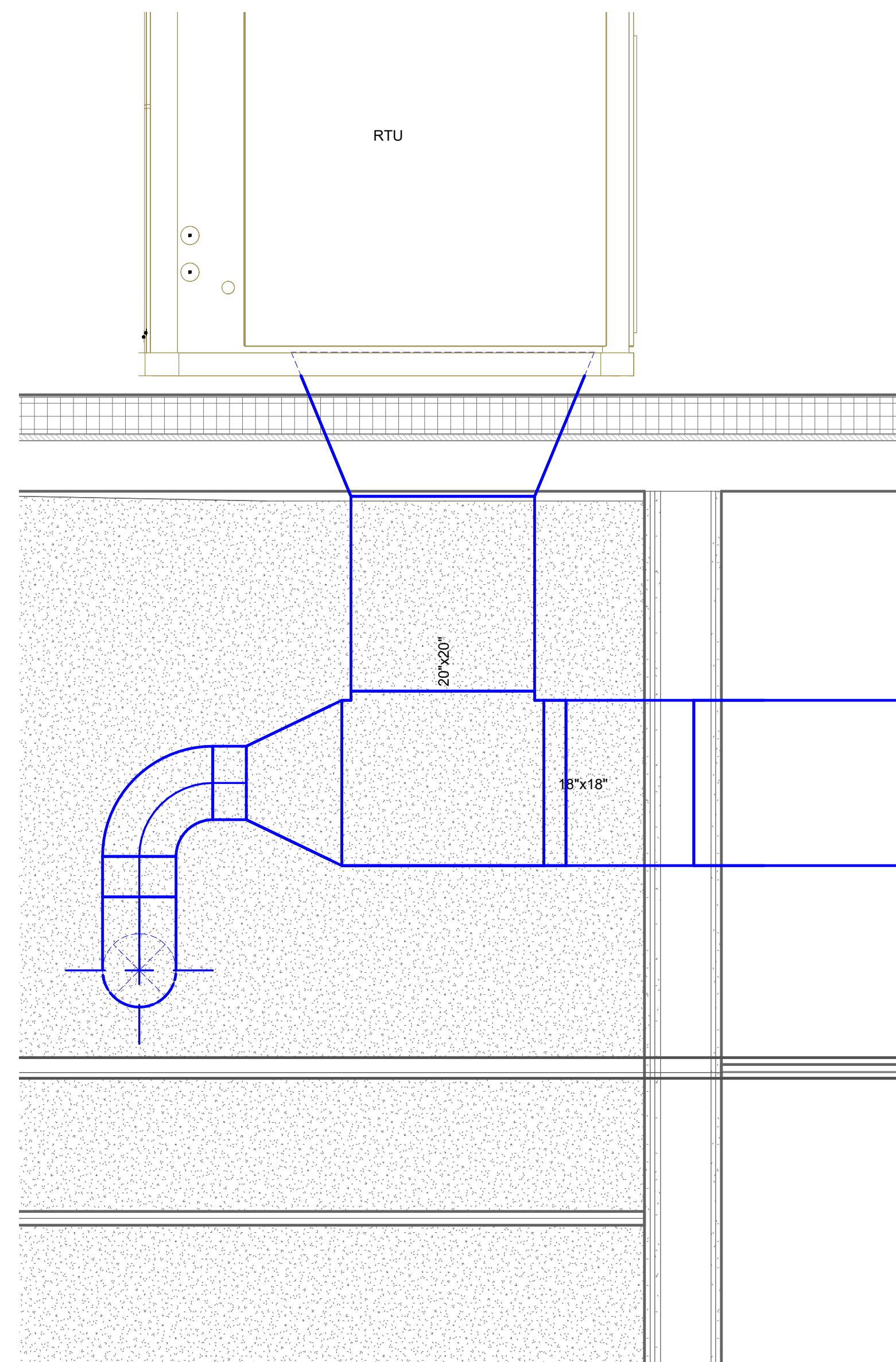
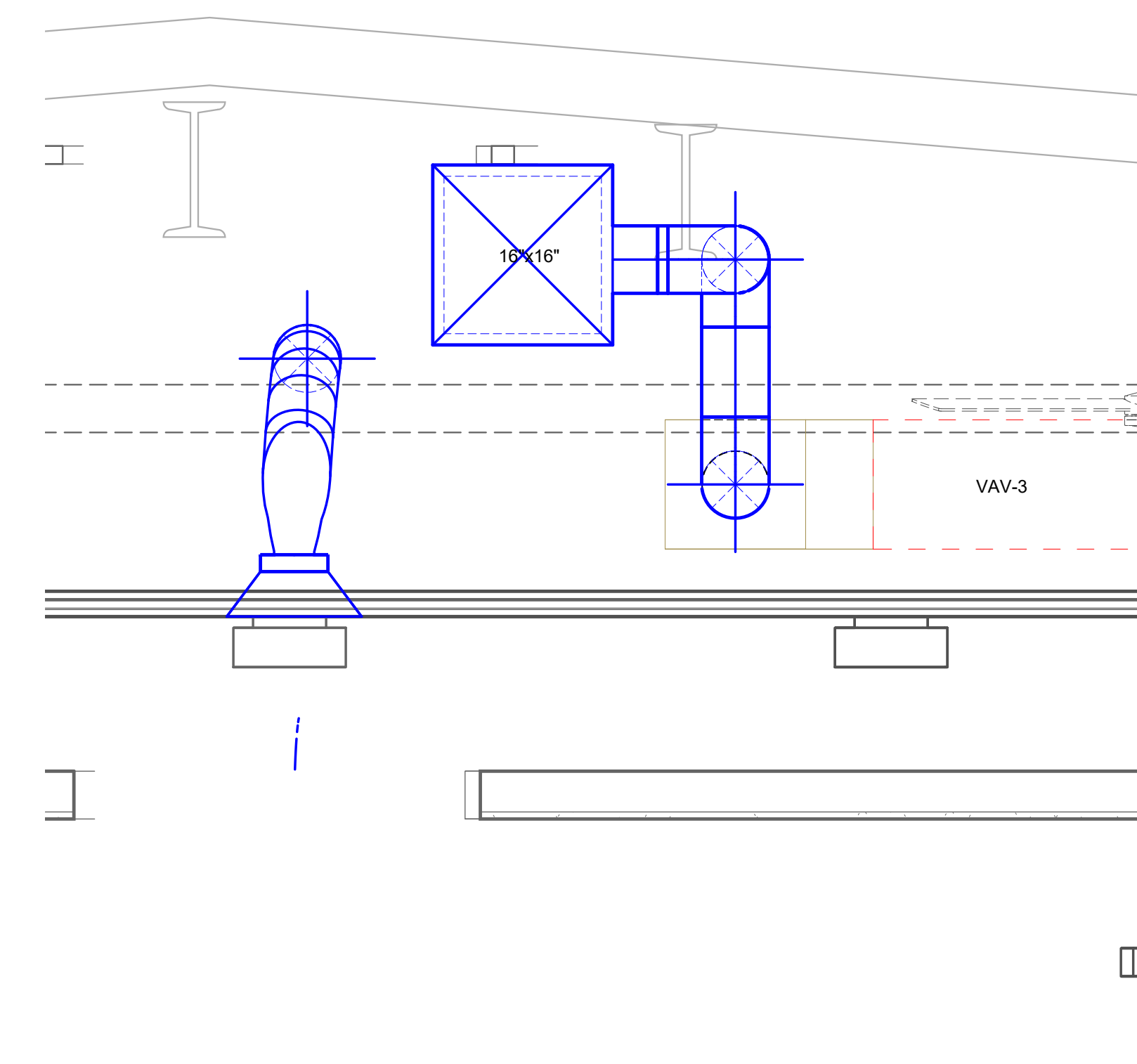
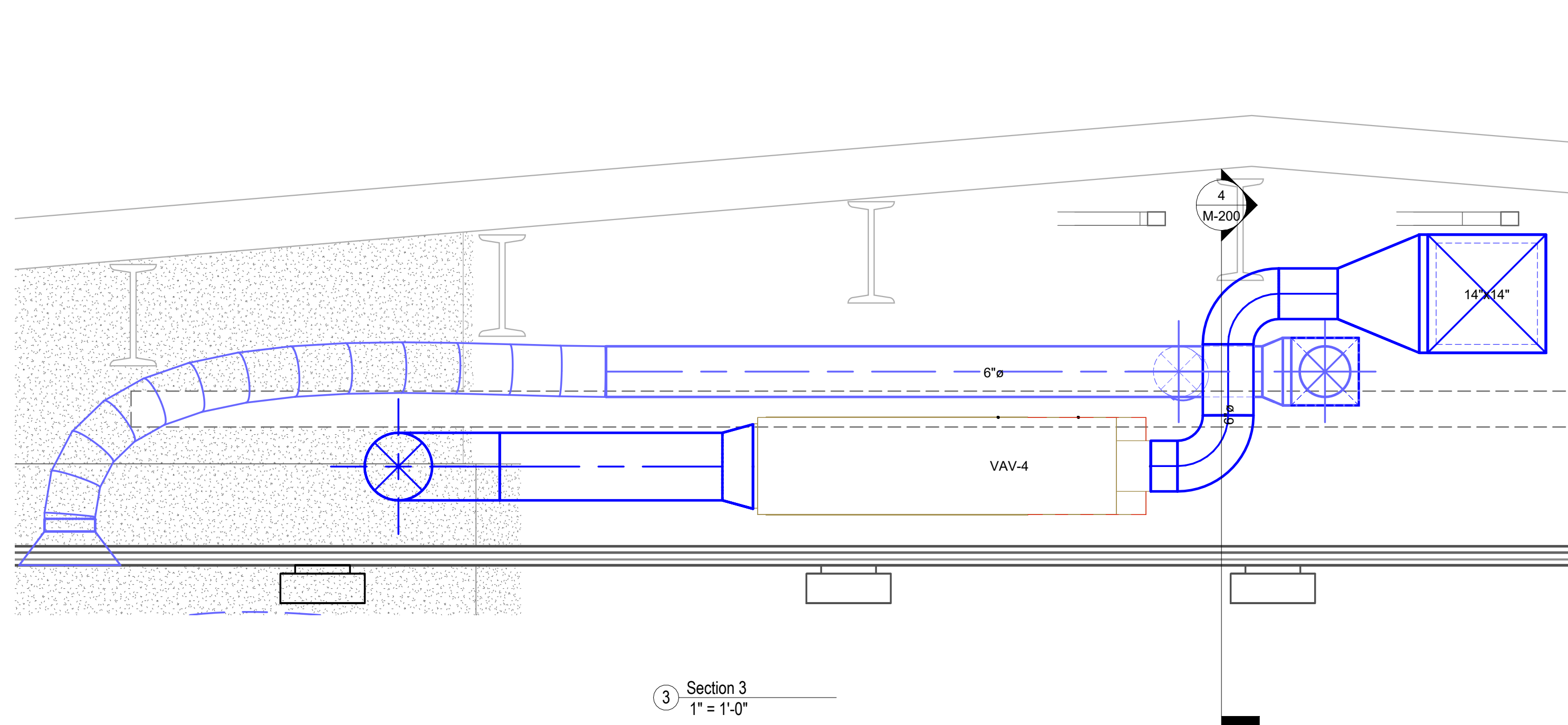
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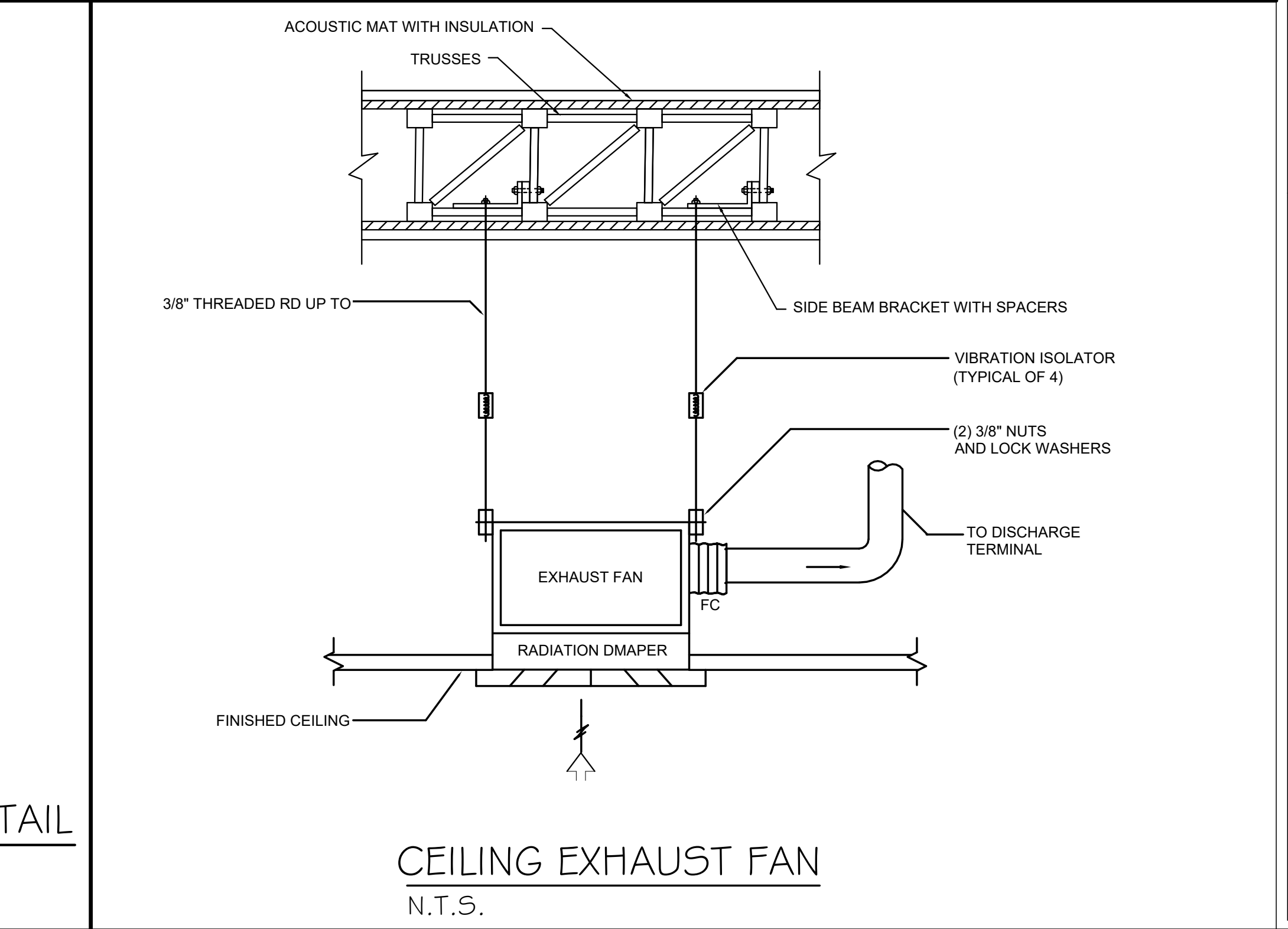
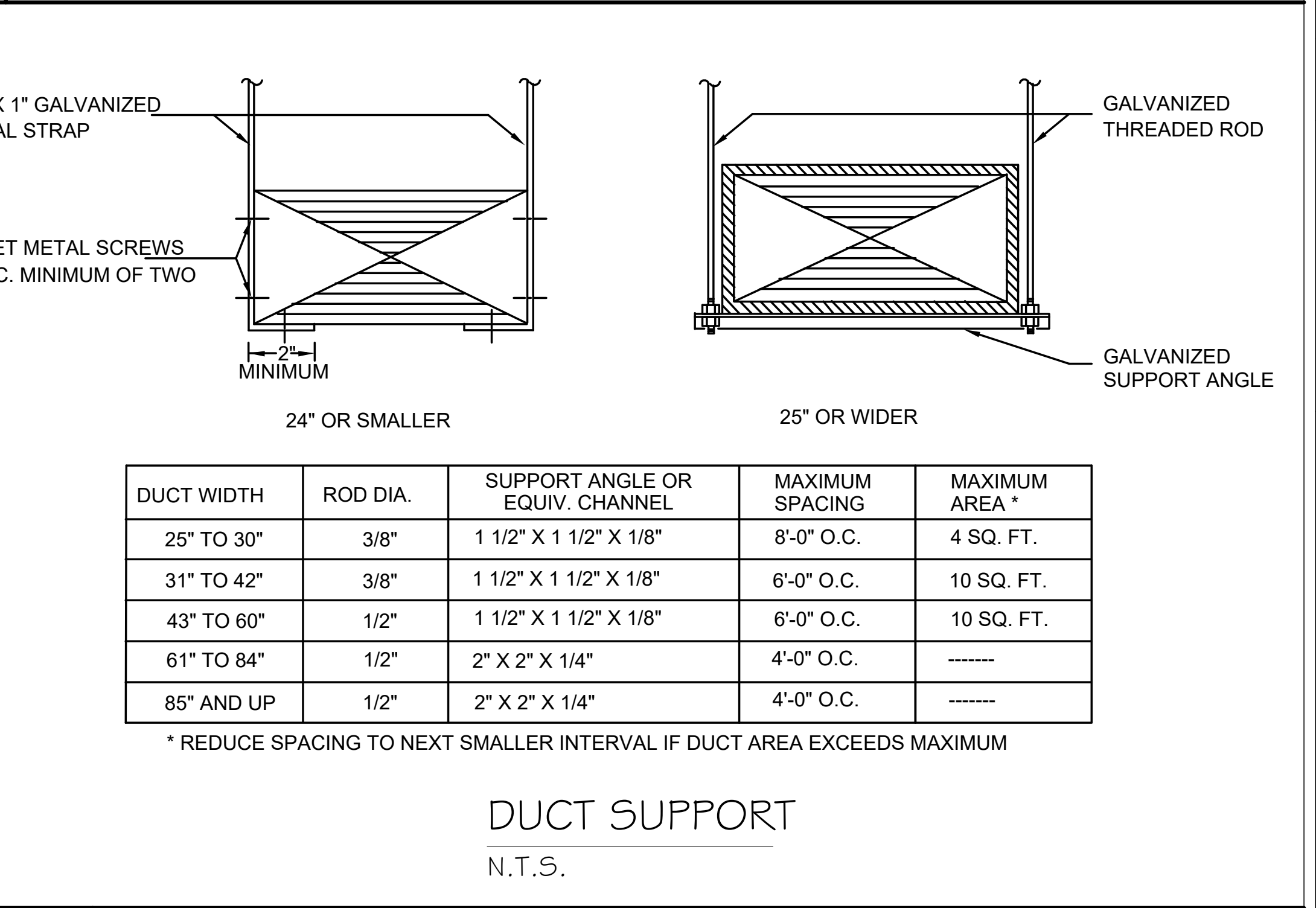
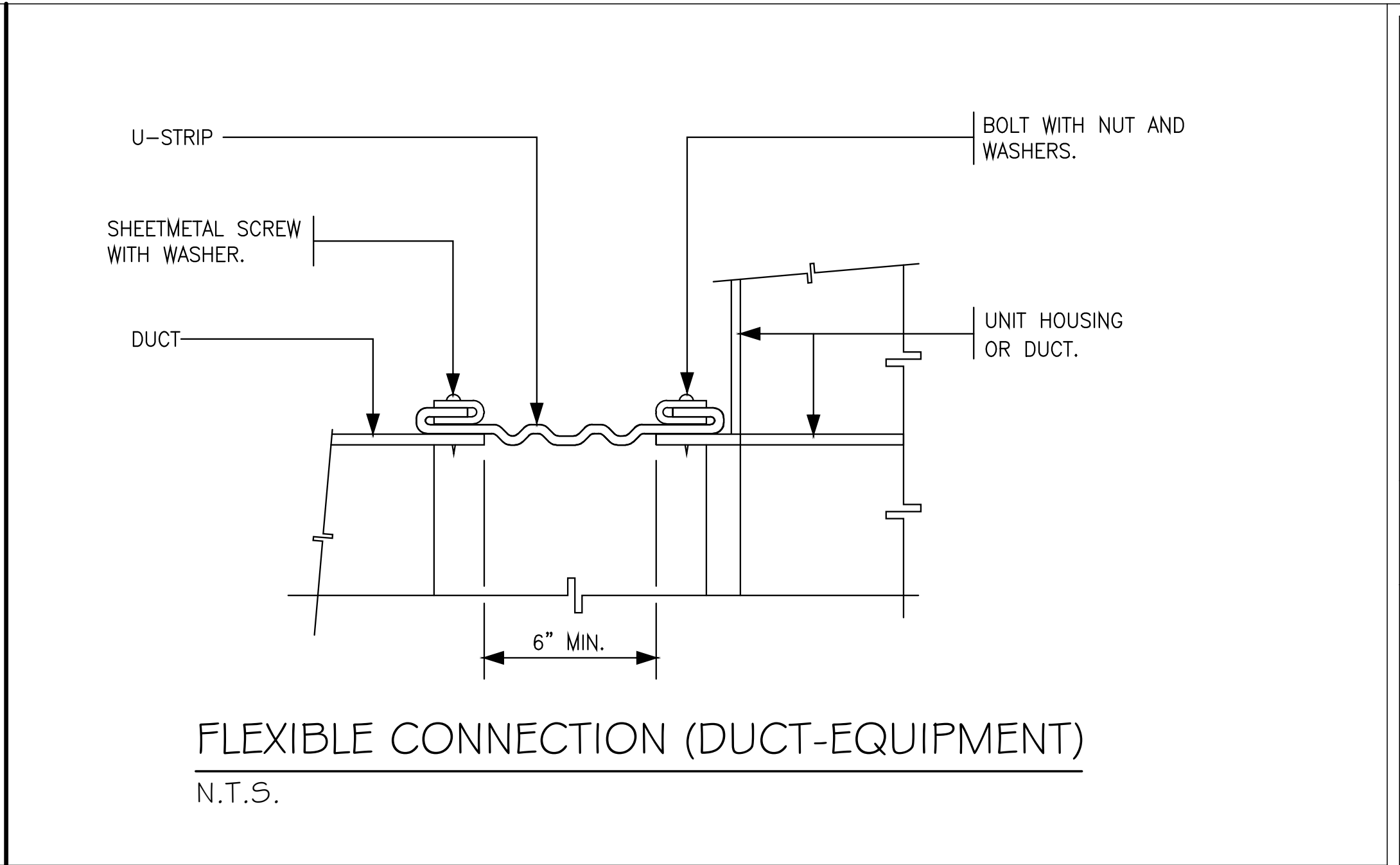
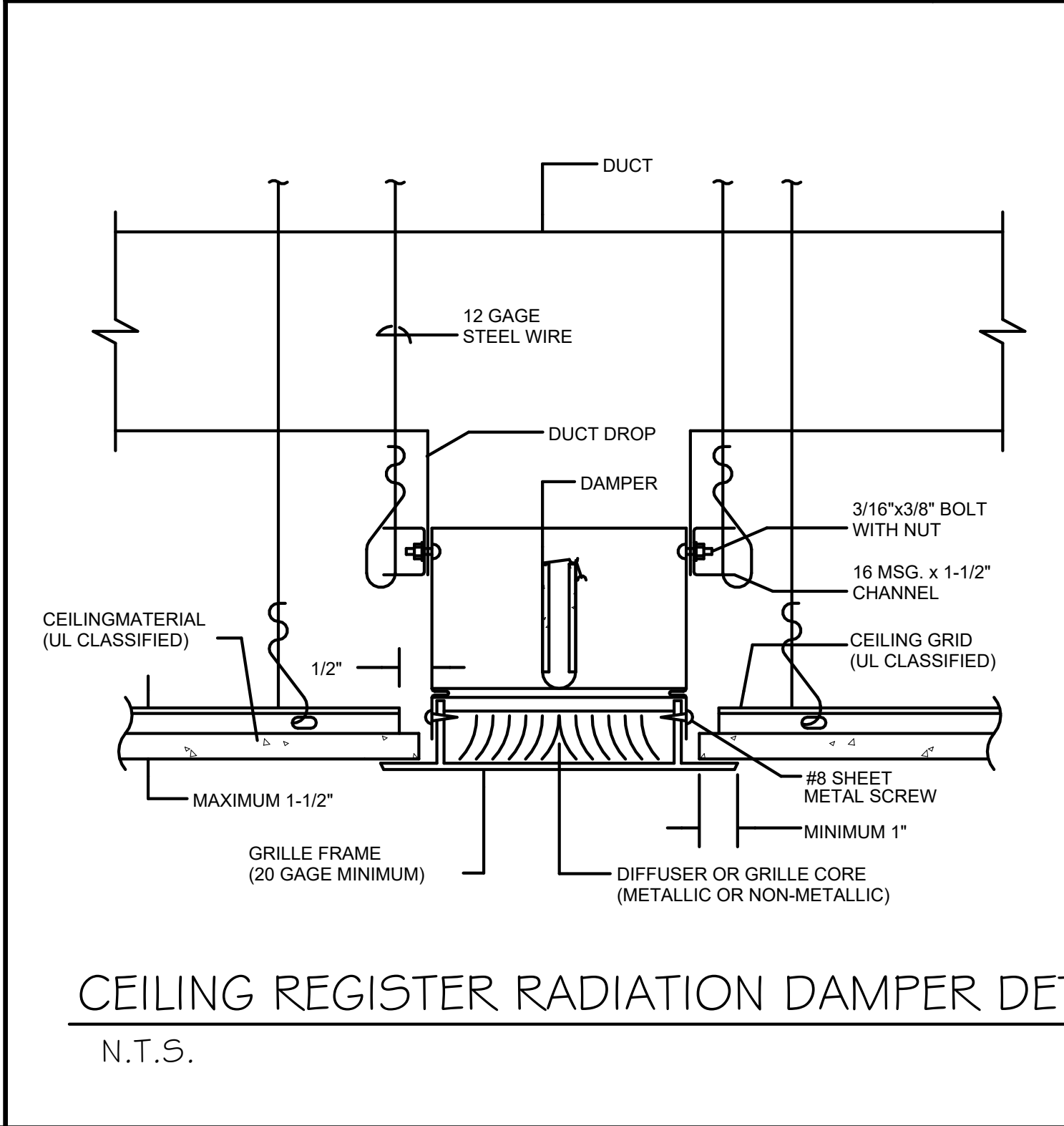
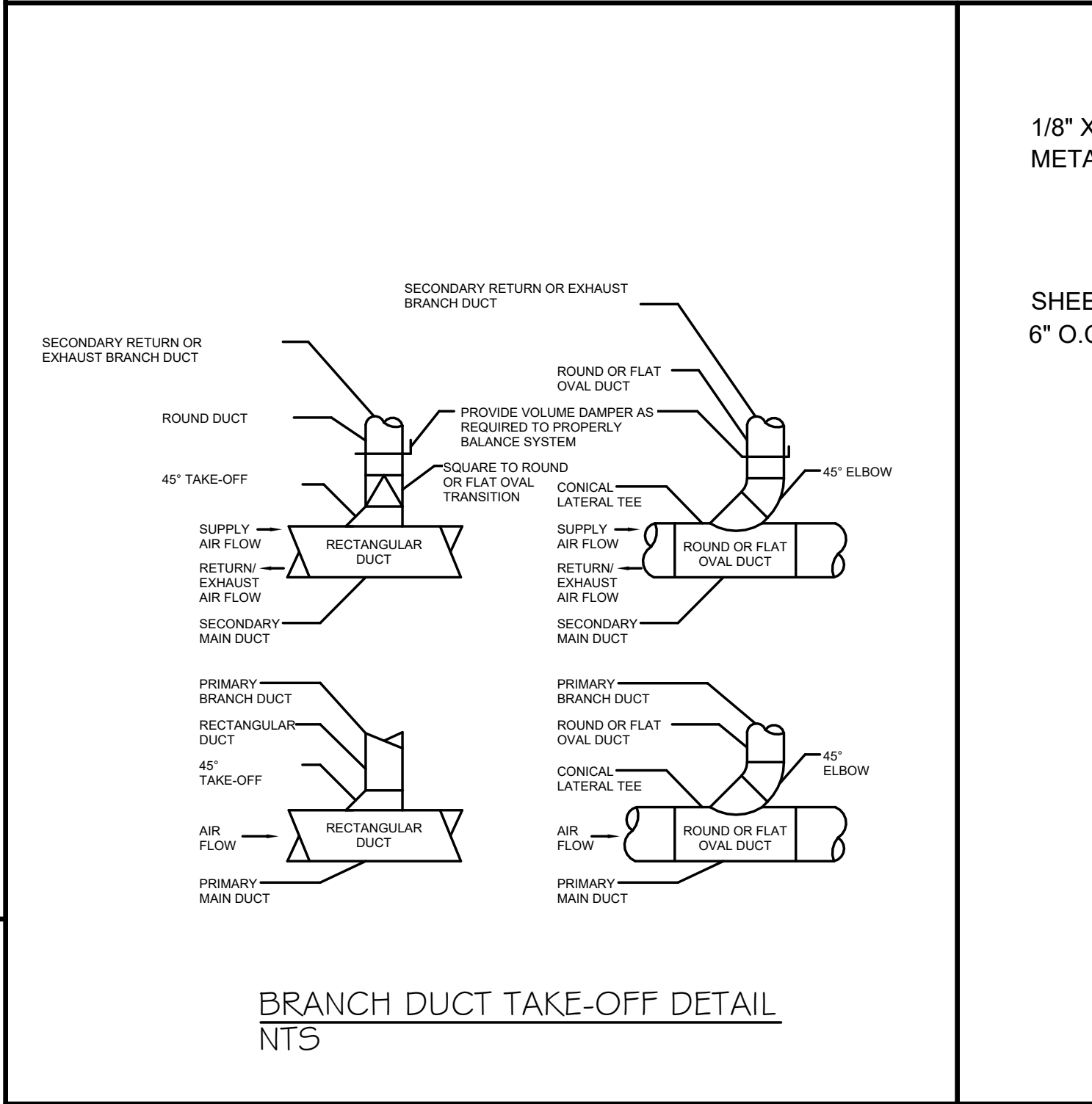
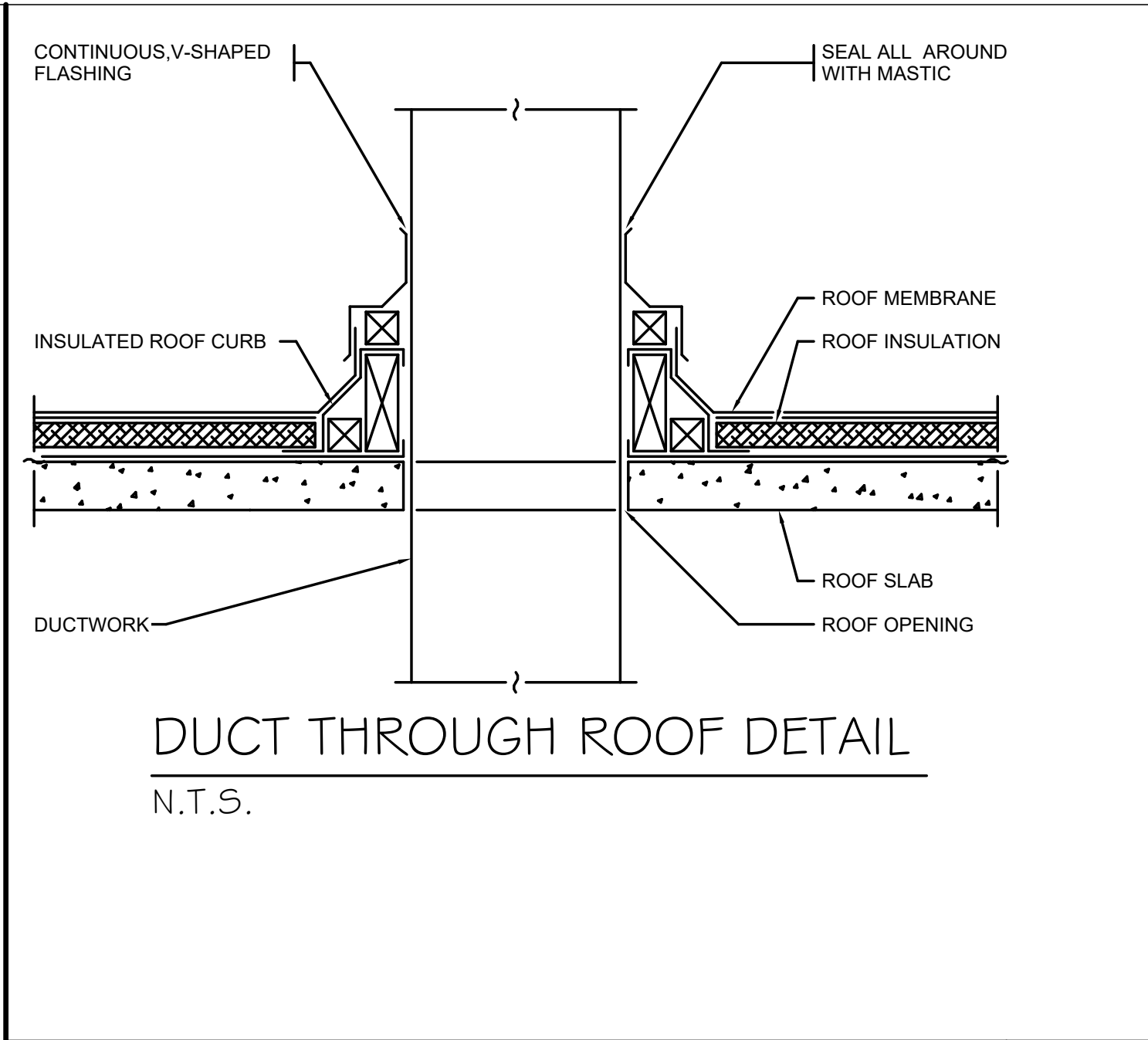
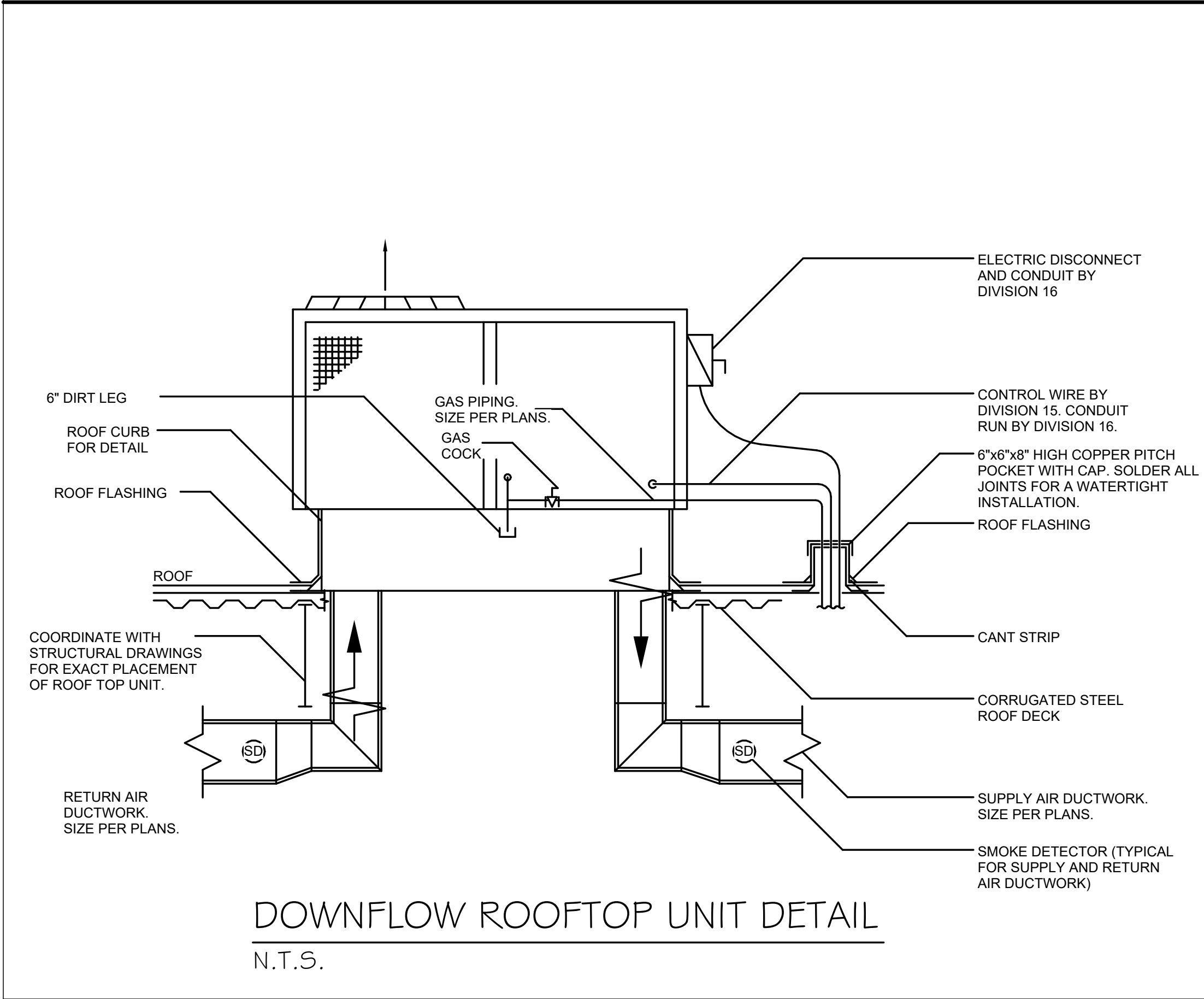
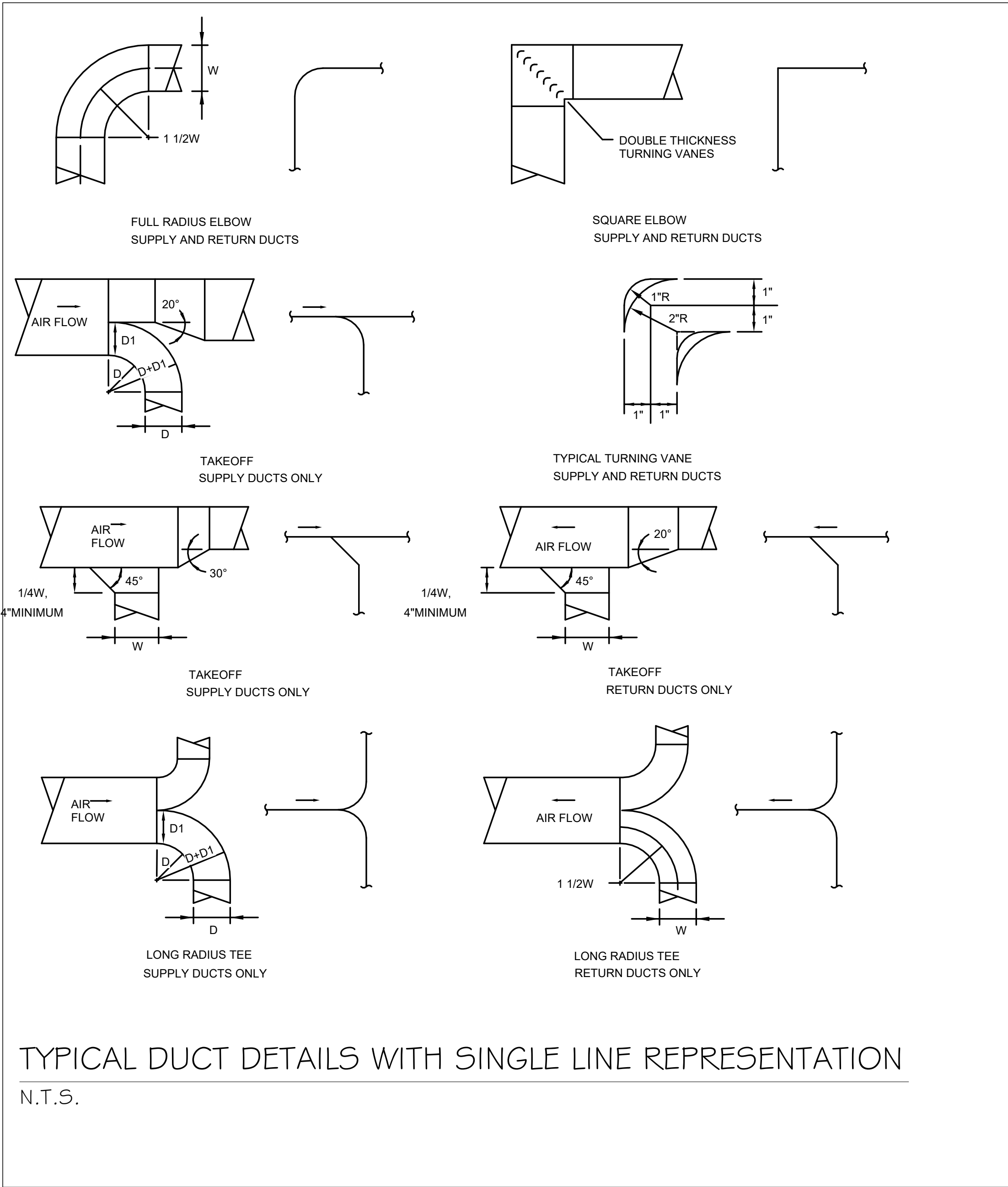
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Project Location:

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Project Number 26-01071

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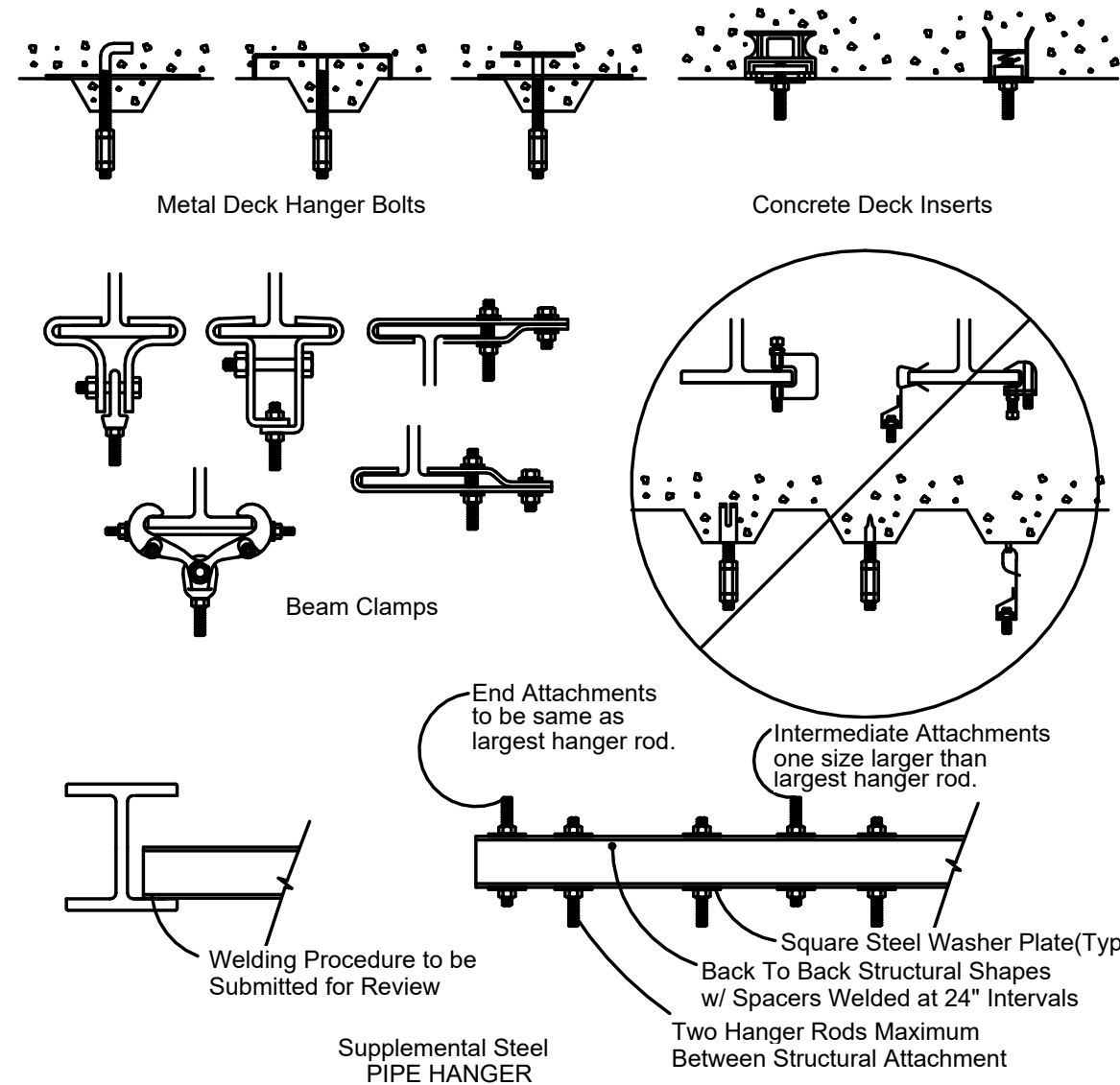
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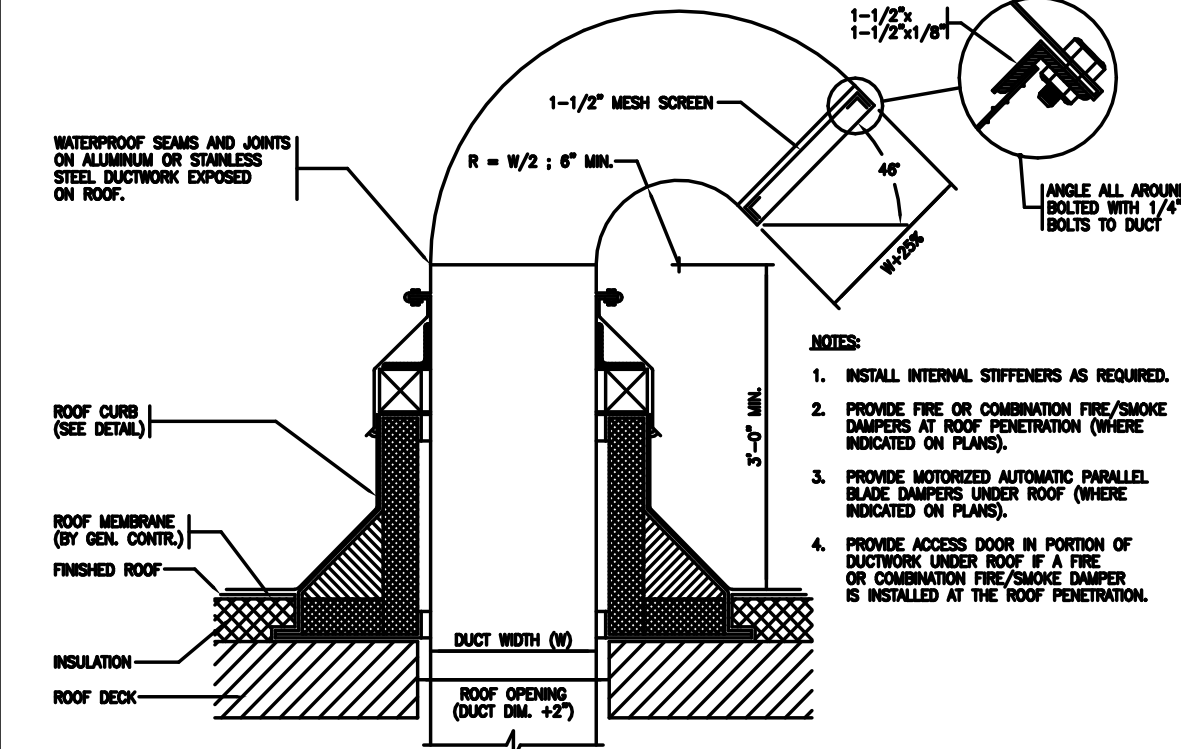
M-201



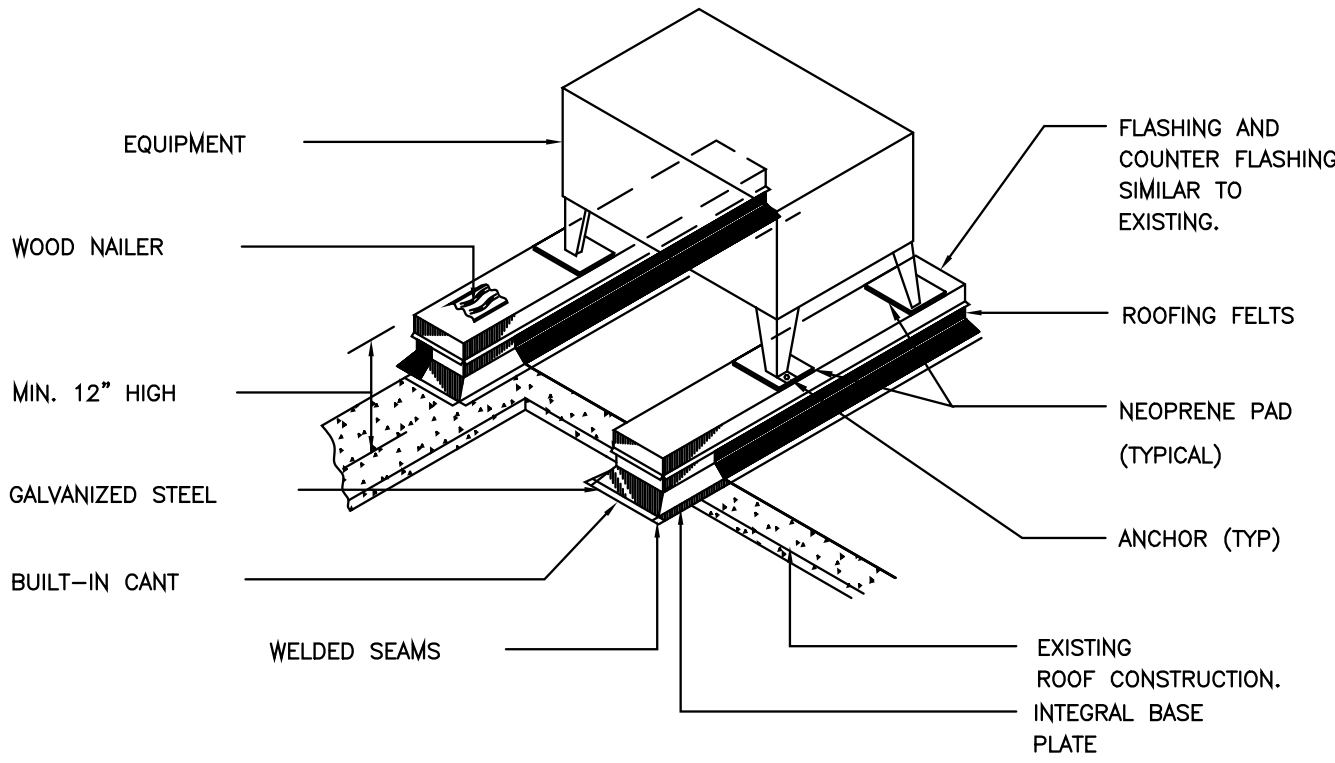
HANGER SCHEDULE		
PIPE SIZE	ROD SIZE	MAX. SPACING
up to 1 1/4"	3/8" DIA.	8" Steel
up to 1 1/4"	3/8" DIA.	6" Copper & Brass
1 1/2" & 2"	3/8" DIA.	10"
2 1/2" & 3"	1/2" DIA.	10"
4" & 5"	5/8" DIA.	10"
6"	3/4" DIA.	10"
8", 10", 12"	7/8" DIA.	10"
14" & 16"	1" DIA.	10"
18"	1 1/8" DIA.	10"

ATTACHMENT DETAIL

N.T.S.



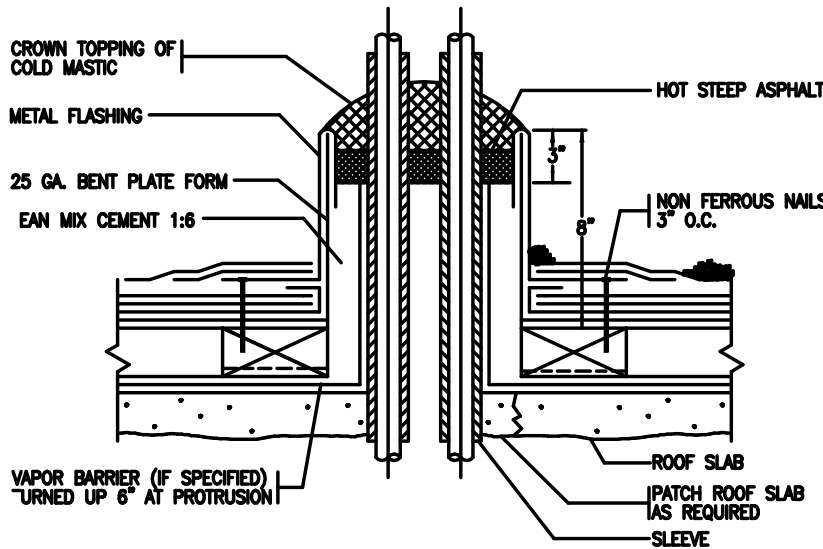
GOOSENECK INSTALLATION



EQUIPMENT SUPPORT ROOF CURB

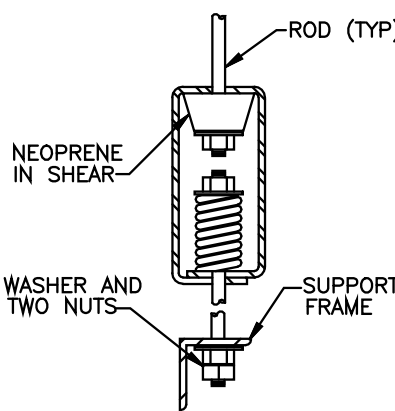
N.T.S.

CAMBRIDGEPORT ROOF CURB MANUFACTURER TO INSTALL ACOUSTICAL PANELS WITHIN STANDARD ROOF CURBS OR SPRING ISOLATION CURBS AS SPECIFIED.



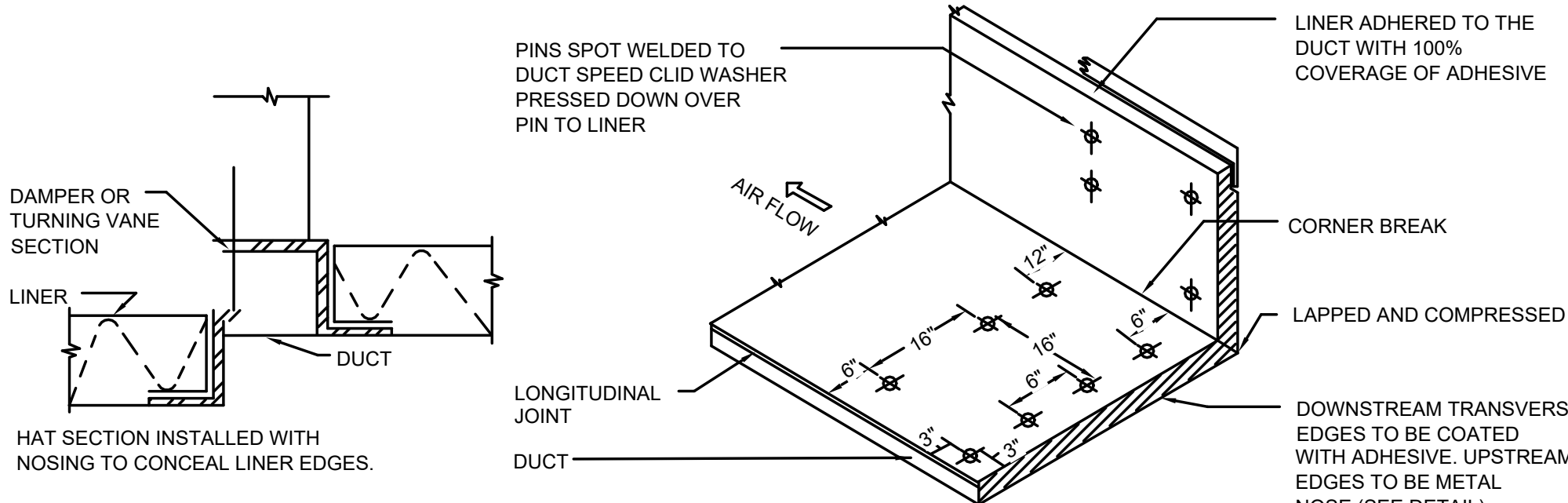
PIPING THROUGH ROOF

NOT TO SCALE

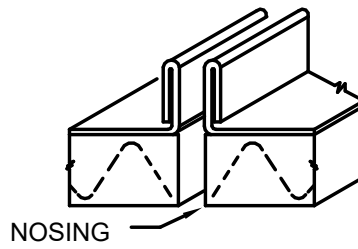


VIBRATION ISOLATOR

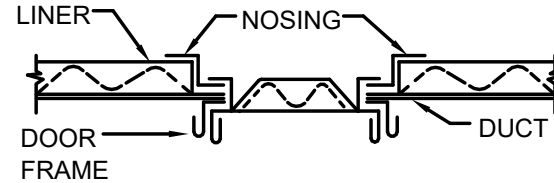
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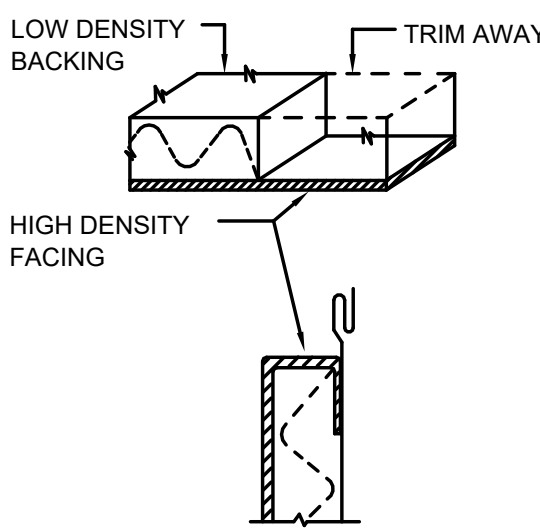
DETAIL AT DAMPERS AND TURNING VANES



NOTE: ENTERING, BUTTING & TRAILING EDGES OF LINER AT TRANSVERSE JOINTS TO BE COVERED BY NOSING



ACCESS DOOR NOSING DETAIL



NOTE: FOLD OVER HIGH DENSITY FACING ON ALL LONGITUDINAL JOINTS & SECURE WITH MECH. FASTENERS

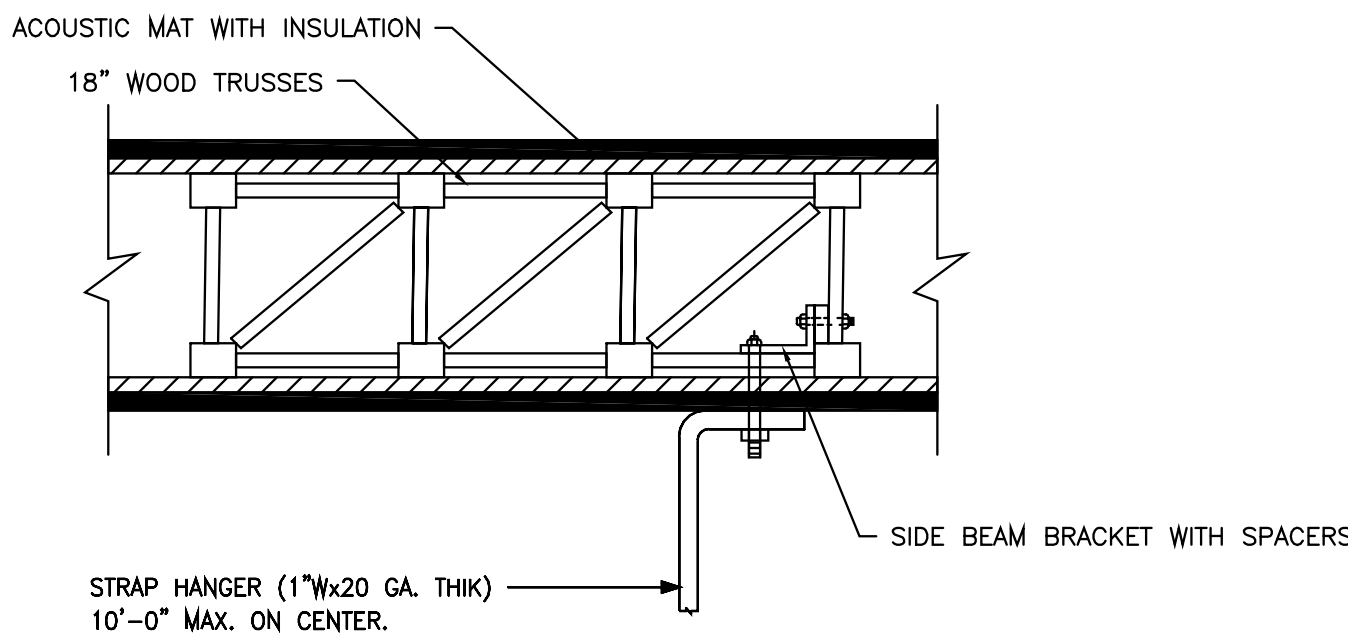
LONGITUDINAL JOINT DETAIL

GENERAL NOTES:

- NOSING ATTACHED TO DUCT BY RIVETS, SCREWS OR WELDS. 48", SAME GAUGE AS DUCT

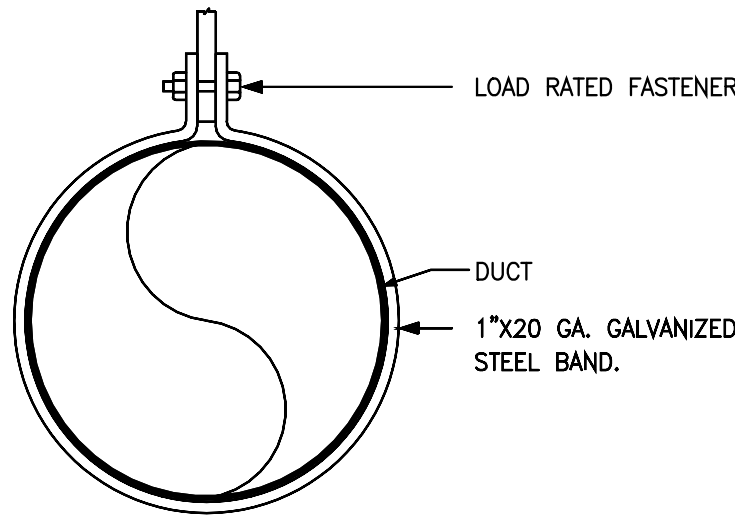
TRANSVERSE JOINT DETAIL ACOUSTICAL DUCT LINER DETAIL

N.T.S.



NOTES :

- DUCT CONSTRUCTION SHALL CONFORM TO LOW PRESSURE MATCHA CONSTR. STD.
- DUCTS SHALL BE FABRICATED WITH LONGITUDINAL SEAMS.
- PROVIDE ONE PRIME-COAT PAINT FOR ROUND DUCTS INSTALLED IN EXPOSED AREAS.



DUCT MOUNTED DUCT SUPPORT ROUND

N.T.S.



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Project Number 26-01071

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M-202

DX / GAS ROOFTOP UNIT SCHEDULE																						
Tag no.	SERVICES	Unit Size	Airflow Data		Cooling Capacity				Heating Data				Electrical Characteristics				Refrigerant	ECONOMIZER	Weight lbs	Manufacturer	Model no	Remarks
			NOMINAL CFM	ESP (IN.W.G)	Total MBH	Sensible MBH	EAT DB/WB	LAT DB/WB	Fuel type	Output MBH	EAT (°F)	LAT (°F)	Volts	Phase	MCA	MOCp						
RTU	Wellness Center	6 TON	2550	1.742	79.54	65.61	76.5/63.5	52.73/52.6	NATURAL GAS	150	47.4	90.66	208	3	38	50	R-454B	Y	1106	Trane	YSK072A3SBH**H4D0A1B1000	1 THRU 15
NOTES: 1. Provide factory mount disconnect switch 2. Provide premium efficiency motors 3. Provide with modulating hot gas 4. Provide digital scroll compressors 5. Provide powered convenience outlet 6. R-410A refrigerant factory charge 7. Provide unit with VFD for balancing 8. Provide compressor acoustic covers 9. Low leakage outdoor air dampers 10. Provide stainless steel heat exchanger 11. Provide stainless steel condensate drain pan and connection 12. Provide manufacturer recommended stand alone controller 13. Unit must be occupied by economizer 14. Unit shall be installed and commissioned by by factory authorized and trained representative. 15. Provide with1 years parts warranty and 1 year labor warranty CAMBRIDGEPORT ROOF CURB MANUFACTURER TO INSTALL ACOUSTICAL PANELS WITHIN STANDARD ROOF CURBS OR SPRING ISOLATION CURBS AS SPECIFIED. FOR ADDITIONAL SOUND ATTENUATION. PROVIDE DUCT SILENCERS AS REQUIRED.																						

VARIABLE AIR VOLUME BOX SCHEDULE								
TAG	SERVE	CFM	INLET...	ELECTRICAL			MANUFACTURER / MODEL	REMARKS
				VOLT/PHASE/HZ	MCA	MOCp		
VAV-1	TOILET A/B - RECEPTION	800	8	208/1/60	21.63	30	TRANE / VCEF08	1,2,3,4,5
VAV-2	OFFICE 1&2	400	6	208/1/60	12.02	20	TRANE / VCEF06	1,2,3,4,5
VAV-3	OFFICE 3&5	400	6	208/1/60	12.02	20	TRANE / VCEF06	1,2,3,4,5
VAV-4	OFFICE 4&6	400	6	208/1/60	12.02	20	TRANE / VCEF06	1,2,3,4,5
VAV-5	OFFICE 7&8	400	6	208/1/60	12.02	20	TRANE / VCEF06	1,2,3,4,5
VAV-6	COR & STAFF	800	8	208/1/60	21.63	30	TRANE / VCEF08	1,2,3,4,5
NOTES: 1. UNIT SHALL BE EQUIPPED WITH DDC CONTROLLER AND 24V TRANSFORMER COMPATIBLE WITH BUILDING CONTROLS, COORDINATE WITH THE CONTROLS CONTRACTOR. 2. UNIT SHALL BE EQUIPPED WITH THERMOSTAT AND CONTROL WIRING, 3. PROVIDE 10 FEET DUCTWORK DOWNSTREAM OF VAV BOX SHALL BE PROVIDED WITH 1" THICK ACOUSTICAL LINING. 4. UNIT SHALL BE MOUNTED FROM THE TOP CHORD OF STRUCTURE WITH VIBRATION ELIMINATORS. 5. PROVIDE MINIMUM 5'-0" OF STRAIGHT DUCT LENGTH AT THE INLET OF EACH BOX.								

FAN SCHEDULE											
TAG NO.	SERVES	AIRFLOW (CFM)	TYPE	ELECTRICAL DATA				SONES	MANUFACTURER	MODEL	REMARKS
				W	V	PH	Hz				
TXF	BATHROOM	50	CEILING FAN	17.9	120	1	60	0.4	PANASONIC	FV-0510VS1	1,2,3,4
NOTES: 1. Provide with factory mounted disconnect switch. 2. Provide fan with backdraft damper. 3. Fan to be connected and controlled by area OS. 4.Provide with hangers and supports with vibration isolators.											



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#	Description	Date

Project Location:

Wellness Center
1849 Post Rd E
Westport, CT 06880

Project Number26-01071

Designed ByPA

Checked ByPA

Issued for:

PERMIT

Sheet Title:
MECHANICAL SCHEDULES

Sheet Number:
M-301

3/4/2026 4:32:49 PM

MECHANICAL (HVAC) SPECIFICATIONS		SECTION 4 - PENETRATION FIRE-STOPPING		SECTION 7 - TESTING, ADJUSTING, AND BALANCING FOR HVAC		11.4 FINISH:	
SECTION 1 - NOTICE TO BIDDERS		4.1 QUALITY ASSURANCE		7.1 SUMMARY		A. TYPE F-1: FITTING COVER, MOLDED WHITE PVC JACKET, UL CLASS 1, MAX PERMEANCE 0.05 SIMILAR TO MANVILLE ZESTRON.	
1.1 BIDDERS REPRESENTATIONS		4.2 PENETRATION FIRESTOPPING		7.2 QUALITY ASSURANCE		B. TYPE F-2: WHITE VAPOR BARRIER COATING WITH10X10 OR 20X20 MESH WHITE GLASS, POLYESTER OR NYLON CLOTH REINFORCING MEMBRANE, MIN 31 MIL ORY FILM THICKNESS, SIMILAR TO FOSTER TITE-FIT, UL LABEL.	
A. THE BIDDER BY MAKING A BID REPRESENTS THAT THE BIDDER HAS READ AND UNDERSTANDS THE BIDDING DOCUMENTS, TO THE EXTENT THAT SUCH DOCUMENTATION RELATES TO THE WORK FOR WHICH THE BID IS SUBMITTED, AND FOR OTHER PORTIONS OF THE PROJECT, IF ANY, BEING BID CONCURRENTLY OR PRESENTLY UNDER CONSTRUCTION.		A. PENETRATIONS IN FIRE-RESISTANCE-RATED WALLS : F-RATINGS PER ASTM E 814 OR UL 1479.		A. THE CONTRACTOR SHALL PROCURE THE SERVICES OF A TESTING, ADJUSTING AND BALANCING (TAB) SPECIALIST WHO SPECIALIZES IN HEATING, VENTILATION AND AIR CONDITIONING SYSTEMS. THE TAB AGENT SHALL HAVE THE FOLLOWING QUALIFICATIONS: AABC, NEBB OR TABB CERTIFIED.		C. TYPE F-4: ALUMINUM JACKETING WITH MIN 0.016 IN. WALL THICKNESS AND LONGITUDINAL JOINTS WITH LOCK SEAMS.	
B. THE BID IS MADE IN COMPLIANCE WITH THE BIDDING DOCUMENTS.		B. PENETRATIONS IN HORIZONTAL ASSEMBLIES: F-AND T-RATINGS PER ASTM E 814 OR UL 1479 .		7.3 EXECUTION		D. TYPE F-6: WHITE FINISHING AND INSULATING CEMENT APPLIED OVER HEXAGONAL WIRE MESH. CEMENT SIMILAR TO KEENE SUPERSLICK.	
C. THE SPECIFICATIONS AND DRAWINGS ARE INTENDED TO SERVE JOINTLY AS A BASIS FOR THE BIDDER TO SUBMIT A CONTRACT PRICE FOR THE MATERIAL AND LABOR.		C.PENETRATIONS IN SMOKE BARRIERS: L-RATINGS PER UL 1479.		A. THE TAB SPECIALIST SHALL PERFORM FLOW MEASUREMENTS OF ALL NEW AIR AND HYDRONIC SYSTEMS AS LISTED ABOVE IN THE PROJECT SCOPE. A REPORT OF THESE MEASUREMENTS, INDICATING ANY AND ALL DEFICIENCIES SHALL BE SUBMITTED FOR OWNER REVIEW.		11.5 INSTALLATION:	
D. SHOULD CONFLICTS OR DISCREPANCIES OCCUR WITHIN THE BIDDING DOCUMENTS, THE ITEM OR ITEMS IN DISPUTE THAT REPRESENT THE GREATER COST SHALL PREVAIL IN THE FINAL BID.		D.W-RATINGS: PER UL 1479.		B. THE REPORT SHALL INDICATE A SCHEMATIC DIAGRAM INDICATING LOCATIONS OF ALL EQUIPMENT TESTED AND MEASUREMENT LOCATIONS		A. BEFORE APPLYING INSULATION ALL PRESSURE AND LEAK TESTS SHALL BE COMPLETED AND APPROVED.	
E. THE BID IS BASED UPON THE MATERIALS, EQUIPMENT AND SYSTEMS REQUIRED BY THE BIDDING DOCUMENTS WITHOUT EXCEPTION.		4.3 INSTALLATION		C. PRIOR TO FINAL INSPECTION OF THE WORK, THE TAB SPECIALIST SHALL BALANCE ALL SYSTEMS AS INDICATED ABOVE TO THE REQUIREMENTS OF THE DESIGN.		B. ALL INSULATION SHALL BE BUTTED FIRMLY TOGETHER, PROVIDE 2 IN. LAMP STRIPS AT ALL SEAMS SECURED WITH ADHESIVE. USE VAPOR BARRIER TAPE AND VAPORSEAL ADHESIVE WHERE REQUIRED. STAPLES NOT PERMITTED. REFRIGERANT PIPING INSULATION SHALL HAVE MITERED FITTINGS.	
1.2 EXISTING CONDITIONS AND COORDINATION		A. IDENTIFICATION: PREPRINTED METAL OR PLASTIC LABELS.		D. THE CONTRACTOR SHALL HAVE FURNISH AND INSTALL ALL ADDITIONAL BALANCING EQUIPMENT, PRESSURE TAPS, GAUGES AND OTHER EQUIPMENT AS REQUIRED FOR A PROPERLY BALANCED SYSTEM AT NO ADDITIONAL COST TO THE OWNER. SUCH ADDITIONAL EQUIPMENT SHALL ADHERE IN STRICT ACCORDANCE WITH THE RESPECTIVE EQUIPMENT MANUFACTURER'S RECOMMENDATIONS.		C. ALL INSULATION AND VAPOR BARRIERS SHALL BECONTINUOUS PASSING THROUGH SLEEVES, HANGERS, ETC., OR OTHER OPENINGS. PROVIDE SADDLES OR SHIELDS FOR PROTECTION AT ALL HANGINGS.	
A. THE BIDDER HAS VISITED THE SITE. BECOME FAMILIAR WITH LOCAL CONDITIONS UNDER WHICH THE WORK IS TO BE PERFORMED AND HAS CORRELATED THE BIDDER'S PERSONAL OBSERVATIONS WITH THE REQUIREMENTS OF THE PROPOSED BIDDING DOCUMENTS.		4.5 THROUGH-PENETRATION FIRESTOP SYSTEM SCHEDULE		E. THE CONTRACTOR SHALL HAVE THE TESTING AND BALANCING SPECIALIST COORDINATE ALL WORK WITH THE BUILDING MANAGER. THE TESTING AND BALANCING WORK SHALL NOT CONFLICT WITH OTHER WORK SO AS TO MAINTAIN COMPLETION WITHIN THE SPECIFIED TIME.		D. INSULATION FOR STRAINERS OR OTHER FITTINGS OR ACCESSORIES REQUIRING SERVICING OR INSPECTION SHALL HAVE INSULATION REMOVABLE AND REPLACEABLE WITHOUT DAMAGE	
B. THE BIDDER SHALL PROPOSE COORDINATION OF WORK SUCH THAT CONFLICTS WITH OTHER TRADES AND SPACE ALLOCATIONS ARE AVOIDED.		WHERE UL-CCLASSIFIED SYSTEMS ARE INDICATED, THEY REFER TO SYSTEM NUMBERS IN UL'S "FIRE RESISTANCE DIRECTORY" UNDER PRODUCT CATEGORY XHEZ.		F. ALL INSTRUMENTS USED FOR TAB SHALL BE MAINTAINED IN GOOD WORKING CONDITION AND ACCURATELY CALIBRATED.		11.6 FINISH:	
1.3 RESPONSIBILITIES		FOR THE FOLLOWING SYSTEMS: METALLIC AND NON-METALLIC PIPES, CONDUIT, OR TUBING, ELECTRICAL CABLES, CABLE TRAYS WITH ELECTRIC CABLES, MISCELLANEOUS ELECTRICAL PENETRANTS, INSULATED PIPES, GROUPINGS OF PENETRANTS, USE ON OR MORE THE FOLLOWING MATERIALS:		G. TOLERANCES: PLUS OR MINUS 5 PERCENT OF DESIGN VALUES.		A. THE SUPPLY OF HEATING AND COOLING ENERGY TO EACH ZONE SHALL BE INDIVIDUALLY CONTROLLED BY THERMOSTATIC CONTROLS RESPONDING TO TEMPERATURE WITHIN THE ZONE.	
A. THE BIDDER UNDERSTANDS THAT ANY CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR THE TIMELY COMPLETION AND ACCEPTANCE OF THEIR WORK AND THAT ANY ITEMS DAMAGED, LOST OR STOLEN DURING TIME OF CONSTRUCTION SHALL BE REPAIRED OR REPLACED WITHOUT ANY ADDITIONAL COST TO THE OWNER.		a. LATEX SEALANT b. SILICONE SEALANT c. INTUMESCENT PUTTY d. MORTAR e. SILICONE FOAM f. PILLOWS/BAGS g. INTUMESCENT WRAP STRIPS h. INTUMESCENT COMPOSITE SHEET		H. INSPECTIONS: RANDOM CHECKS BY OWNER OR ARCHITECT TO VERIFY FINAL TESTING, ADJUSTING, AND BALANCING REPORT.		A WHERE USED TO CONTROL BOTH HEATING AND COOLING, ZONE THERMOSTATIC CONTROLS SHALL BE CAPABLE OF PROVIDING A TEMPERATURE RANGE OR DEAD BAND OF AT LEAST 5°F WITHIN WHICH THE SUPPLY OF HEATING AND COOLING ENERGY TO THE ZONE IS SHUT OFF OR REDUCED TO A MINIMUM.	
B. THE BIDDER UNDERSTANDS THAT ANY PROPOSED WORK IN OCCUPIED TENANT SPACES SHALL BE PERFORMED DURING TIMES OF NON-TENANT OCCUPANCY OR AS SCHEDULED OR DIRECTED BY THE BUILDING MANAGER.		SECTION 5 - SLEEVE SANDS LEEVEE SFOR HVAC PIPING		I. ADDITIONAL TESTS: RANDOM TESTS WITHIN 90 DAYS OF COMPLETING TABTO VERIFY BALANCE CONDITIONS AND SEASONAL TESTS.		12.2 DEAD BAND:	
C. THE BIDDER UNDERSTANDS THAT ANY PROPOSED SHUT-DOWN OF EXISTING SYSTEMS DURING CONSTRUCTION SHALL BE PRE-ARRANGED WITH THE BUILDING MANAGER AND THAT SUCH SHUT-DOWNS ARE TO BE KEPT TO A MINIMUM.		5.1 SLEEVE SEAL SYSTEMS		SECTION 8 - DUCT INSULATION		12.3 SETBACK CONTROLS:	
2.1 WORKMANSHIPS		A. ALL WORK SHALL BE FREE FROM DEFECTS IN MATERIALS AND WORKMANSHIP FOR A PERIOD OF ONE YEAR FROM DATE OF FINAL ACCEPTANCE		8.1 QUALITY ASSURANCE		A HEATING SYSTEMS LOCATED IN CLIMATE ZONES 2-8 SHALL BE EQUIPPED WITH CONTROLS THAT HAVE THE CAPABILITY TO AUTOMATICALLY RESTART AND TEMPORARILY OPERATE THE SYSTEM AS REQUIRED TO MAINTAIN ZONE TEMPERATURES ABOVE A HEATING SETPOINT ADJUSTABLE DOWN TO 55T OR LOWER. COOLING SYSTEMS LOCATED IN CLIMATE ZONES 1B, 28, AND 38 SHALL BE EQUIPPED WITH CONTROLS THAT HAVE THE CAPABILITY TO AUTOMATICALLY RESTART AND TEMPORARILY OPERATE THE SYSTEM AS REQUIRED TO MAINTAIN ZONE TEMPERATURES BELOW A COOLING SETPOINT ADJUSTABLE UP TO 90°F OR HIGHER OR TO PREVENT HIGH SPACE HUMIDITY LEVELS.	
B. ALL DEFECTS WHICH DEVELOP OR ARE DISCOVERED WITHIN THIS PERIOD SHALL BE REPAIRED BY THE CONTRACTOR TO THE SATISFACTION OF THE ARCHITECT OR BUILDING MANAGER AT NO ADDITIONAL COST TO THE OWNER.		A. FIELD-ASSEMBLED, MODULAR SEALING-ELEMENT UNIT FOR FILLING ANNULAR SPACE BETWEEN PIPING AND SLEEVE. 1. SEALING ELEMENTS: EPDM RUBBER OR NBR. 2. PRESSURE PLATES: CARBON STEEL, PLASTIC, STAINLESS STEEL. 3. CONNECTING BOLTS AND NUTS: CARBON STEEL WITH CORROSION-RESISTANT COATING, STAINLESS STEEL		8.2 SOUND (ACOUSTIC) INSULATION		12.4 AUTOMATIC SHUTDOWN:	
C. UPON COMPLETION OF THE WORK THE CONTRACTOR SHALL REMOVE FROM THE SITE, ALL TOOLS, DEMOLISHED APPLIANCES AND ANY SURPLUS MATERIAL.		5.2 SLEEVE SEAL FITTINGS		A. PROVIDE INTERNAL SOUND INSULATION IN ALL DUCTS WITHIN 10'-0" OF THE DISCHARGE OF THE PACKAGED DX/GAS UNITS AND WHERE INDICATED ON THE DRAWINGS. THE DUCTWORK SHALL BE LINED WITH JOHNS MANVILLE PERMACOTE UNACOUSTIC, THICKNESS, UNLESS SPECIFIED OTHERWISE, SHALL BE 1". LINER SHALL BE APPLIED TO DUCT IN STRICT ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS AND SMACNA GUIDELINES, LATEST EDITION. WHERE SOUND INSULATION IS INDICATED, DUCTWORK SIZES DENOTED ARE THE INSIDE DIMENSIONS AFTER THE INSULATION HAS BEEN INSTALLED. PROVIDE LINED DUCTWORK WITH EXTERNAL INSULATION TO MAINTAIN R-VALUE AS INDICATED BELOW.		A HVAC SYSTEMS SHALL BE EQUIPPED WITH AT LEAST ONE OF THE FOLLOWING: CONTROLS THAT CAN START AND STOP THE SYSTEM UNDER DIFFERENT TIME SCHEDULES FOR SEVEN DIFFERENT DAY-TYPES PER WEEK, ARE CAPABLE OF RETAINING PROGRAMMING AND TIME SETTING DURING LOSS OF POWER FOR A PERIOD OF AT LEAST TEN HOURS, AND INCLUDE AN ACCESSIBLE MANUAL OVERRIDE, OR EQUIVALENT FUNCTION, THAT ALLOWS TEMPORARY OPERATION OF THE SYSTEM FOR UP TO TWO HOURS.	
2.2 CODE COMPLIANCE		A. MANUFACTURED PLASTIC, SLEEVE-TYPE, PLASTIC OR RUBBER WATER-STOP ASSEMBLY MADE FOR IMBEDDING IN CONCRETE SLAB OR WALL.		8.3 THERMAL INSULATION		A WHERE HEATING AND COOLING TO A ZONE ARE CONTROLLED BY SEPARATE ZONE THERMOSTATIC CONTROLS LOCATED WITHIN THE ZONE, MEANS (SUCH AS LIMIT SWITCHES, MECHANICAL STOPS, OR FOR DDC SYSTEMS, SOFTWARE PROGRAMMING) SHALL BE PROVIDED TO PREVENT THE HEATING SETPOINT FROM EXCEEDING THE COOLING SETPOINT MINUS ANY APPLICABLE PROPORTIONAL BAND.	
A. ALL WORK SHALL MEET ALL STATE AND LOCAL CODES HAVING JURISDICTION.		5.3 GROUT		A. COVER ALL CONCEALED UNLINED SUPPLY AIR AND OUTSIDE AIR DUCTWORK WITH FIBERGLASS DUCT WRAP HAVING A MIN. R-12, EQUAL TO JOHNS MANVILLE R-SERIES MICROLITE WITH F.R.G. VAPOR BARRIER. ALL SUPPLY DUCTS, LOCATED IN ATTIC SHALL BE INSULATED TO MINIMUM R-8. COVER ALL EXPOSED UNLINED SUPPLY AIR AND OUTSIDE AIR DUCTWORK WITH RIGID FIBERGLASS BOARD INSULATION HAVING MIN. R-6. PROVIDE ALL TAPE, MASTICS, SEALANTS, MOUNTING PINS, AND ETC. TO INSTALL INSULATION AS RECOMMENDED BY THE MANUFACTURER.		12.6 HEAT PUMP SUPPLEMENTARY HEAT:	
SECTION 3 - REQUIRED DOCUMENTS		5.4 SLEEVE AND SLEEVE SEAL SCHEDULE		8.4 THERMAL INSULATION SCHEDULE		A HEAT PUMPS HAVING SUPPLEMENTARY ELECTRIC RESISTANCE HEAT SHALL HAVE CONTROLS THAT, EXCEPT DURING DEFROST, PREVENT SUPPLEMENTARY HEAT OPERATION WHERE THE HEAT PUMP CAN PROVIDE THE HEATING LOAD.	
3.1 SHOP DRAWINGS		A. USE SLEEVES AND SLEEVE SEALS FOR THE FOLLOWING PIPING-PENETRATION APPLICATIONS: 1. INTERIOR PARTITIONS: a. PIPING SMALLER THAN NPS 6 (DN 150): GALVANIZED-STEEL-PIPE SLEEVES; PVC-PIPE SLEEVES b. PIPING NPS 6 (DN 150) AND LARGER: GALVANIZED-STEEL-SHEET SLEEVES.		A. INSULATE DUCTS IN COMPLIANCE WITH THE INTERNATIONAL ENERGY CONSERVATION CODE. COMMERCIAL DUCTWORK SHALL BE INSULATED TO R-8 WHEN IN UNCONDITIONED SPACES AND R-8 WHEN LOCATED OUTSIDE THE BUILDING. COMMERCIAL DUCTWORK IN CONDITIONED SPACES DOES NOT REQUIRE INSULATION. RESIDENTIAL DUCTS OUTSIDE THE BUILDING ENVELOPE SHALL BE INSULATED TO A MINIMUM OF R-8. RESIDENTIAL DUCTWORK INSIDE THE BUILDINGS THERMAL ENVELOPE DOES NOT REQUIRE INSULATION. ALL EXTERIOR DUCTS TO BE INSULATED TO A MINIMUM OR R-8.		SECTION 13 - SEQUENCE OF OPERATION	
A. PRIOR TO DELIVERY TO THE JOB SITE, BUT SUFFICIENTLY IN ADVANCE OF REQUIREMENTS NECESSARY TO ALLOW ENGINEER AMPLE TIME FOR REVIEW, CONTRACTOR SHALL SUBMIT FOR APPROVAL INDICATE ON EACH SUBMISSION:		2. DESIGN SUPPORTS FOR MULTIPLE PIPES CAPABLE OF SUPPORTING COMBINED WEIGHT OF SUPPORTED SYSTEMS, SYSTEM CONTENTS, AND TEST WATER.		8.5 DUCT SEALING		A. PROVIDE ALL TEMPERATURE, OPERATION AND SAFETY CONTROLS, LOW VOLTAGE CONTROL WIRING, HARDWARE, SOFTWARE, AND ACCESSORIES NECESSARY TO ACHIEVE A FULLY OPERATIONAL HVAC CONTROL SYSTEM. POWER WIRING SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR.	
1.PROJECT NAME AND LOCATION 2.ARCHITECT AND ENGINEER 3.ITEM IDENTIFICATION 4.APPROVAL STAMP OF PRIME CONTRACTOR		3. DESIGN SEISMIC-RESTRAINT HANGERS AND SUPPORTS FOR PIPING AND EQUIPMENT AND OBTAIN APPROVAL FROM AUTHORITIES HAVING JURISDICTION		A. SEAL ALL DUCTWORK IN COMPLIANCE WITH THE INTERNATIONAL ENERGY CONSERVATION CODE .		13.1 ENERGY RECOVERY UNIT (ERV):	
B. ALL DUCTWORK SHOP DRAWINGS AND COORDINATION DRAWINGS SHALL BE SUBMITTED ON 3/8 IN SCALE DRAWINGS AND SHALL INCLUDE LOCATIONS AND SIZES OF EXISTING EQUIPMENT ALONG WITH NEW WORK. DRAWINGS SHALL INDICATE LOCATIONS OF HANGERS, SUPPORTS, EXPANSION JOINTS, GUIDES, ANCHORS AND ANCHOR LOADS.		C. PIPE HANGING AND SUPPORTING - PIPING SHALL NOT BE SUPPORTED BY OTHER PIPING, BUT SHALL BE SUPPORTED WITH PIPE HANGERS SUITABLE FOR THE SIZE OF PIPE AND PROPER STRENGTH AND QUALITY AT PROPER INTERVALS SO THAT THE PIPING CANNOT BE MOVED ACCIDENTALLY FROM THE INSTALLED POSITION AS FOLLOWS:		B. COMMERCIAL DUCTS, SEAL ALL LONGITUDINAL AND TRANSVERSE JOINTS, SEAMS AND CONNECTIONS.		A. THE ERV SHALL RUN CONTINUOUSLY. THE SUPPLY FAN SHALL RUN CONTINUOUSLY AND MODULATE TO MAINTAIN DISCHARGE PRESSURE SETPOINT, THE EXHAUST FAN SHALL RUN CONTINUOUSLY, OUTDOOR/EXHAUST DAMPER SHALL MODULATE OPEN AND THE DX COOLING AND DIRECT GAS FIRED HEATING SYSTEM SHALL RUN TO MAINTAIN DISCHARGE SETPOINT (70°F ADJ).	
C. COORDINATION DRAWINGS SHALL INDICATE ALL MEP EQUIPMENT, DUCTS AND PIPES AND PERTINENT ARCHITECTURAL ITEMS. MOUNTING HEIGHTS SHALL BE NOTED.		D. DUCT HANGING AND SUPPORTING - DUCTWORK SHALL NOT BE SUPPORTED BY OTHER DUCTWORK OR PIPING, BUT SHALL BE SUPPORTED WITH HANGERS OF TYPE AND AT SPACINGS AS PER SMACNA STANDARDS.		C. ALL DUCT RETURN REGISTERS SHALL HAVE AN OPPOSED BLADE DAMPER UNLESS OTHERWISE NOTED.		B. SMOKE DETECTOR: WHEN SMOKE IS DETECTED BY SMOKE DETECTOR, THE UNIT WILL SHUTOFF AND ALARM SIGNAL SHALL BE TRANSMITTED TO THE FIRE ALARM SYSTEM. THE OUTSIDE/EXHAUST AIR DAMPER SHALL CLOSE AND THE SUPPLY/EXHAUST FANS ASSOCIATED WITH THE UNIT SHALL BE TURNED OFF.	
D. SUBMIT SHOP DRAWINGS FOR THE FOLLOWING:		PROVIDE CLEVIS HANGERS AT CENTER OF CENTER SPACING (UNLESS OTHERWISE NOTED)		SECTION 11: PIPING INSULATION		13.2 VRF SPLIT SYSTEM HEAT PUMPS HP/SHPCU/S:	
1.DUCTWORK LAYOUT, SHEET METAL DETAILS/STANDARDS 2. PIPING SHOP DRAWINGS 3.COORDINATION DRAWINGS		1/2 INCH PIPE OR TUBING 6 FEET 3/4 INCH OR 1 INCH PIPE OR TUBING 8 FEET 1-1/4 INCH OR LARGER (HORIZONTAL) 10 FEET 1-1/4 INCH OR LARGER (VERTICAL) EVERY FLOOR LEVEL		11.1 INSULATE ALL PIPING IN ACCORDANCE WITH INSULATION SCHEDULE EXCEPT AS OTHERWISE NOTED.		A. THE SYSTEMS SHALL ENABLE TO START/STOP VIA ITS DEDICATED WALL MOUNTED DIGITAL PROGRAMMABLE CONTROLLER. DURING "ON" MODE THE ASSOCIATED THERMOSTAT SHALL ENERGIZE THE COMPRESSOR AND SUPPLY FAN TO MAINTAIN ROOM SET POINT OF 75°F ADJUSTABLE.	
3.2 SUBMITTALS		12 INCH PIPE OR TUBING 6 FEET 3/4 INCH OR 1 INCH PIPE OR TUBING 8 FEET 1-1/4 INCH OR LARGER (HORIZONTAL) 10 FEET 1-1/4 INCH OR LARGER (VERTICAL) EVERY FLOOR LEVEL		11.2 PIPING, VALVES AND FITTINGS TO BE INSULATED:		B. UNITS SHALL SHUT OFF UPON SAFETY FLOW SWITCH LEVEL IS ACTIVATED.	
A. WITHIN 60 DAYS, EQUIPMENT SUBMITTALS OF ALL PROPOSED MECHANICAL AND ANCILLARY EQUIPMENT INCLUDING ALL ACCESSORIES SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW. ALL PERTINENT MODELS, SIZES, ACCESSORIES AND CHOICES SHALL BE CLEARLY CHECKED, PRINTED OR OTHERWISE INDICATED ON THE SUBMITTALS.		6.2 SUBMITTALS		A. LOW TEMPERATURE PIPING SYSTEMS - 0 TO 60 DEG F INCLUDING: 1. CONDENSATE DRAIN PIPING.		13.3 ELECTRIC HEATERS (EH/HS, EHW/HS, EK/HS):	
B. INDICATE ON EACH SUBMISSION: 1. PROJECT NAME AND LOCATION 2. ARCHITECT AND ENGINEER 3. ITEM IDENTIFICATION 4. APPROVAL STAMP OF PRIME CONTRACTOR		A. SHOP DRAWINGS: SIGNED AND SEALED BY A PROFESSIONAL ENGINEER.		B. PROTECTIVE COVERINGS SHALL BE INSTALLED ON AREAS OF INSULATION THAT ARE EXPOSED TO WEATHER OR SUBJECT TO MECHANICAL DAMAGE. THE PROTECTIVE COVERING SHALL BE: 1. ARMA-CHEK SILVER MULTI-LAYER LAMINATE OF ALUMINUM, COATED WITH A UV PROTECTIVE FILM AND BACKED WITH A FLEXIBLE PVC FILM. THE MATERIAL SHOULD BE ADHERED WITH ARMAFLEX 520 ADHESIVE OR EQUIVALENT, AND ALL JOINTS AND SEAMS SECURED WITH ARMA-CHEK SILVER TAPE. INSTALLATION SHALL BE IN ALL CASES TO THE MANUFACTURER'S RECOMMENDATIONS. OR 2. HIGH DENSITY RUBBER CLADDING OF THE ARMA-CHEK R" TYPE BONDED USING AN APPROPRIATE FULL CONTACT ADHESIVE WITH A MINIMUM 50 MM OVERLAP AT ALL BUTT JOINTS AND LONGITUDINAL SEAMS. A WEATHER-PROOF MASTIC SEALANT SHALL BE APPLIED OVER ALL SEAMS AND JOINTS. ALL MATERIAL SHALL BE OVERLAPPED AND STAGGERED IN SUCH A WAY AS TO ENSURE A WATERSHED IS ALWAYS PROVIDED. INSTALLATION SHALL BE IN ALL CASES TO THE MANUFACTURER'S RECOMMENDATIONS. ALL EXCESS ADHESIVE VISIBLE ON THE SURFACE OF THE COMPLETED ASSEMBLY SHALL BE REMOVED USING AN APPROPRIATE CLEANING MATERIAL. OR 3. METAL CLADDING, COMPRISED OF COATED SHEET METAL, WITH ALL EXTERNAL JOINTS AND FIXING MADE WEATHER-PROOF WITH SILICONE SEALANT.		A. THE ELECTRIC HEATER SHALL ENABLE START/STOP BY ITS DEDICATED THERMOSTAT AND RUN TO MAINTAIN SPACE SETPOINT.	
C. SUBMIT SUBMITTALS ON THE FOLLOWING: 1. DUCT MATERIALS 2. DUCTWORK SPECIALTIES 3. DUCTWORK INSULATORS 4. AIR OUTLETS (RIGID) 5. HEATING EQUIPMENT 6. AIR CONDITIONING EQUIPMENT 7. FANS 8. CONTROLS 9. HYDRONIC SYSTEMS BALANCING REPORTS 10. AIR SYSTEMS BALANCING REPORTS		6.3 QUALITY ASSURANCE		11.3 MATERIAL:		13.4 AIR CURTAIN UNIT (ACU/S):	
A. WITHIN 90 DAYS, UPON COMPLETION OF THE WORK, A RECORD DRAWING SHALL BE SUBMITTED TO THE OWNER DEPICTING ALL SUBSEQUENT CHANGES, ADDITIONS AND OR CORRECTIONS TO THE CONTRACT DRAWINGS AND OR CONTRACT SCOPE MADE DURING CONSTRUCTION. THIS DRAWING SHALL REPRESENT A COMPLETE RECORD OF THE WORK INSTALLED.		A. AWS D1.1/D1.1M, "STRUCTURAL WELDING CODE - STEEL"		A. TYPE P-1: MIN 4 LB DENSITY MOLDED FIBERGLASS, MAX 0.24 K-FACTOR AT 75 DEG F MEAN TEMPERATURE WITH FACTORY-APPLIED FIRE-RETARDANT FOIL-SKRIM-KRAFT FACING. ALL SERVICE JACKET: SIMILAR TO OWENS-CORNING 650 ASJ.		A. THE UNIT SHALL START/STOP BY ITS DEDICATED INTELLISWITCH DIGITAL CONTROLLER PLUS MODE INCLUDING ASSOCIATED INTERFACE WITH DOOR SWITCH (SET SPEED), THERMOSTAT, ELECTRIC HEATER/LOW FAN SPEED.	
3.4 EQUIPMENT OPERATING INSTRUCTIONS		6.4 COMPONENTS		B. TYPE P-3: MIN 4 LB DENSITY MOLDED FIBERGLASS FITTING, MAX 0.23 K-FACTOR AT 75 DEG F MEAN TEMPERATURE SIMILAR TO EPOUX HAMFAB MOLDED FITTINGS.		SECTION 12: THERMOSTATIC CONTROLS:	
A. WITHIN 90 DAYS, ON COMPLETION AND ACCEPTANCE OF WORK, THIS CONTRACTOR SHALL FURNISH WRITTEN INSTRUCTIONS, EQUIPMENT MANUALS AND DEMONSTRATE TO THE OWNER THE PROPER OPERATION AND MAINTENANCE OF ALL EQUIPMENT AND APPARATUS FURNISHED UNDER THIS CONTRACT.		A. METAL PIPE HANGERS AND SUPPORTS: CARBON OR STAINLESS STEEL . B. TRAPEZE PIPE HANGERS: CARBON OR STAINLESS STEEL C. FIBERGLASS PIPE HANGERS: CLEVIS, CENTURY COMPOSITES, COOPER B-LINE D. METAL FRAMING SYSTEMS: MFMA MANUFACTURER. E. FIBERGLASS STRUT SYSTEMS: COOPER B-LINE F. THERMAL-HANGER SHIELD INSERTS. G. FASTENER SYSTEMS: POWDER-ACTUATED FASTENERS OR MECHANICAL-EXPANSION ANCHORS H. PIPE STANDS: COMPACT, LOW TYPE, SINGLE PIPE, HIGH TYPE, SINGLE PIPE, HIGH TYPE, MULTIPLE PIPES, CURB-MOUNTED TYPE I. EQUIPMENT SUPPORTS .		B. ALL DUCTWORK SHALL BE CONSTRUCTED TO SMACNA 2" WG DESIGN AND NOT LESS THAN THE FOLLOWING STANDARDS:		A. THE SUPPLY OF HEATING AND COOLING ENERGY TO EACH ZONE SHALL BE INDIVIDUALLY CONTROLLED BY THERMOSTATIC CONTROLS RESPONDING TO TEMPERATURE WITHIN THE ZONE.	
B. THESE INSTRUCTIONS SHALL BE TYPED ON 8-1/2 IN. X 11 IN. PAPER AND BOUND IN THREE-RING BINDERS WITH CLEAR ACETATE COVERS. THE CONTRACTOR SHALL GIVE THREE COPIES OF THE INSTRUCTIONS TO THE OWNER AND ONE ELECTRONIC COPY TO THE ENGINEER.		9.2 CONSTRUCTION		1. DUCTWORK SHALL BE TRANSVERSELY JOINTED BY CONNECTING SEAMS OF COMPANION ANGLES, FORMED FROM 1-1/8x1-1/2"x1/8" GALVANIZED ANGLES, TACK-WELDED OR RIVETED TO THE DUCT. THE ANGLE FRAME SHALL BE CONTINUOUSLY FLANGED UP INTO UPRIGHT OF ANGLE AND EACH CORNER SHALL BE FILLED IN AND GROUND SMOOTH. JOINTS SHALL BE GASKETED WITH 1/8" THICK REINFORCED GASKET, OVERLAPPED AT CORNERS, GASKET SIMILAR TO 3M-1202 OR APPROVED EQUAL.		C. TYPE P-4: MIN 1 LB DENSITY FIBERGLASS FITTING INSERTS, MAX 0.27 K-FACTOR AT 75 DEG F MEAN TEMPERATURE SIMILAR TO MANVILLE H-LO TEMP INSULATION INSERTS.	
C. THE INSTRUCTION BOOKLET SHALL BE ORGANIZED IN SECTIONS, WITH ONE SECTION PER SYSTEM. THE COVER OF THE INSTRUCTION BOOKLET SHALL BEAR THE NAME, ADDRESS AND PHONE NUMBER OF THE PROJECT, ARCHITECT, ENGINEER, MECHANICAL CONTRACTOR AND SUBCONTRACTORS.		A. EACH DUCT SYSTEM SHALL BE CONSTRUCTED FOR THE SPECIFIC SMACNA DUCT PRESSURE CLASSIFICATIONS SHOWN ON THE CONTRACT DRAWINGS. WHERE NO PRESSURE CLASSES ARE SPECIFIED BY THE DESIGNER, THE SMACNA 2-1/2 INCH WG PRESSURE CLASS IS THE BASIS OF COMPLIANCE WITH THESE STANDARDS, REGARDLESS OF THE VELOCITY IN THE DUCT.		D. TYPE P-6: MIN 6 LB MOLDED FOAMED PLASTIC, MAXIMUM 0.27 K-FACTOR AT 75 DEG F MEAN TEMPERATURE, MAX 0.17 PERMEANCE, SIMILAR TO ARMISTRONG ARMAFLEX II.		12.5 SETPOINT OVERLAP RESTRICTION:	



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#	Description	Date
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Wellness Center

1849 Post Rd E
Westport, CT 06880

Project Location:

Project Number	26-01071
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Designed By	PA
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Checked By	PA
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Issued for:

PERMIT

Sheet Title:

MECHANICAL
SPECIFICATIONS

Sheet Number:

M-401

ABBREVIATIONS	
A	AMPERES
AFF	ABOVE FINISHED FLOOR
ANN	FIRE ALARM ANNUNCIATOR
BC	BATTERY CHARGER
BH	BLOCK HEATER
C	CONDUIT
C/B	CIRCUIT BREAKER
CKT	CIRCUIT
COFF	COFFEE MAKER
CRD	CORD REEL DROP CABLE ON EACH LOCATION
CS	CONTROL STATION FOR OVERHEAD DOOR
D	DRYER
DED	DEDICATED
D/W	DISHWASHER
EC	ELECTRICAL CONTRACTOR
EW	ELECTRIC WATER COOLER
EW	ELECTRIC WATER HEATER
FA	FIRE ALARM REMOTE ANNUNCIATOR PANEL
FA	FIRE ALARM CONTROL PANEL
GD	GEAR DRYER
GW	GEAR WASHER
HT, HT CONT.	HEAT TRACE, HEAT TRACE CONTROLLER
INC.	INCANDESCENT LIGHTING FIXTURE (DEMO DWGS ONLY)
JB	JUNCTION BOX
M/B	MAIN BREAKER
M1	UTILITY REVENUE METER
MFP	UTILITY REVENUE METER
MLO	MAIN LUG ONLY
MIC	MICROWAVE
MTD	MOUNTED
N.I.C.	NOT IN CONTRACT OR SCOPE OF WORK
NL	NEW LOCATION
PNL	PANELBOARD
PROJ	PROJECTOR
PR	PRINTER/PLOTTER/COPIER/FAX/SCANNER
REC	RECEPTACLE
REF	REFRIGERATOR
SLC	POLYCARBONATE SECURITY COVER
TC	TIME CLOCK
UCR	UNDER COUNTER REFRIGERATOR
U.O.N.	UNLESS OTHERWISE NOTED
WG	WIRE GUARD
WM	WASHING MACHINE
WP	WEATHERPROOF/WATER PROOF

CONNECTICUT STATE CODES & STANDARDS	
2022 CONNECTICUT STATE BUILDING CODE 2020 NATIONAL ELECTRICAL CODE (NFPA-70) 2021 INTERNATIONAL BUILDING CODE WITH AMENDMENTS 2021 INTERNATIONAL PLUMBING CODE WITH AMENDMENTS 2021 INTERNATIONAL MECHANICAL CODE WITH AMENDMENTS 2021 INTERNATIONAL FUEL GAS CODE WITH AMENDMENTS 2021 INTERNATIONAL FIRE CODE WITH AMENDMENTS - LOCAL FIRE DEPARTMENT/FIRE MARSHAL - ALL OTHER LOCAL AUTHORITIES HAVING JURISDICTION	
CONNECTICUT STATE ENERGY CODES	
2021 INTERNATIONAL ENERGY CONSERVATION CODE WITH AMENDMENTS	
REFERENCE STANDARDS	
APPLICABLE REFERENCE STANDARDS SHALL BE AS REFERENCED BY ALL STATE AND LOCAL CODES. THE LIST BELOW IS FOR QUICK REFERENCE AND DOES NOT INCLUDE ALL APPLICABLE REFERENCE STANDARDS. 2019 NFPA 13 - STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS 2019 NFPA 14 - STANDARD FOR THE INSTALLATION OF STANDPIPE AND HOSE SYSTEMS 2019 NFPA 20 - STANDARD FOR THE INSTALLATION OF STATIONARY PUMPS FOR FIRE PROTECTION 2020 NFPA 70 - NATIONAL ELECTRICAL CODE 2019 NFPA 72 - NATIONAL FIRE ALARM AND SIGNALING CODE 2021 NFPA 101- LIFE SAFETY CODE	

ELECTRICAL GENERAL NOTES	
1.	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 NEC (2017) AND APPLICABLE LOCAL CODES.
2.	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.
3.	DO NOT SCALE DRAWINGS; ACTUAL FIELD MEASUREMENTS AND DIMENSIONS TAKE PRECEDENCE IN ALL CASES.
4.	ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE STANDARD GENERAL CONDITIONS OF THE CONSTRUCTION CONTRACT, AIA DOCUMENT, LATEST EDITION.
5.	ELECTRICAL CONTRACTOR SHALL INSTALL ALL EQUIPMENT IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS AND OR REQUIREMENTS FOR PROPER OPERATION AND MAINTENANCE.
6.	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.
7.	THE TERM "PROVIDE" SHALL MEAN TO FURNISH AND INSTALL IN COMPLETE WORKING ORDER.
8.	THE SCOPE OF WORK IS AS SHOWN ON THE PLANS AND DETAILED IN THE SPECIFICATIONS.
9.	ALL THE WIRE SIZES ARE BASED ON COPPER, ALUMINUM IS NOT TO BE USED.
10.	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.
11.	PROVIDE INDEPENDENT SEISMIC SUPPORT OF ALL ELECTRICAL EQUIPMENT PER IBC CODE.
12.	ELECTRICAL CONTRACTOR SHALL SECURE ALL PERMITS AND PAY FOR ALL REQUIRED FEES, INCLUDING ALL UTILITY FEES.
13.	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.
14.	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.
15.	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.
16.	ELECTRICAL CONTRACTOR SHALL PROVIDE SHOP DRAWINGS FOR APPROVAL FOR ALL LIGHTING FIXTURES, PANELS, SWITCHES, RECEPTACLES, ... ETC.
17.	ELECTRICAL CONTRACTOR TO VERIFY LIGHTING FIXTURE MOUNTING REQUIREMENTS FOR VARIOUS CEILING TYPES AND ORDER APPROPRIATE HARDWARE.
18.	COORDINATE EXACT PLACEMENT OF EQUIPMENT WITH ARCHITECTURAL AND MECHANICAL PLANS, MAKE FIELD ADJUSTMENTS AS REQUIRED TO AVOID CONFLICTS, VERIFY WITH OWNER.
19.	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.
20.	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.
21.	ALL ELECTRONIC BALLASTS AND LED DRIVERS TO BE HPF AND HAVE THE LOWEST POSSIBLE ENERGY CONSUMPTION FOR THE SPECIFIED LAMP.
22.	ALL ELECTRICAL PENETRATIONS TO BE FIREPROOFED TO MAINTAIN INTEGRITY OF FIRE WALLS/FLOORS/CEILINGS.
23.	PROVIDE LAMICOID NAMEPLATES FOR ALL ELECTRICAL DISTRIBUTION AND DISCONNECT EQUIPMENT.
24.	SHARED NEUTRALS ARE NOT TO BE USED. PROVIDE SEPARATE NEUTRALS FOR ALL CIRCUITS.
25.	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.
26.	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.
27.	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.
28.	RISER DIAGRAMS ARE PROVIDED TO SHOW DIAGRAMMATIC GENERAL WIRING REQUIREMENTS. WIRING IS TO BE PROVIDED FOR THE PARTICULAR VENDOR/SYSTEM APPROVED FOR THE PROJECT. ALL WIRING IS TO BE CONCEALED.
29.	NO LOW VOLTAGE WIRING SHALL BE PERMITTED IN THE SAME RACEWAY AS POWER WIRING.
30.	EMERGENCY SERVICES SHALL BE RUN IN SEPARATE RACEWAYS FROM ALL OTHER SYSTEMS.
31.	PROVIDE DRAG LINES IN ALL EMPTY RACEWAYS.
32.	CIRCUIT NUMBERS ARE INDICATED FOR INTENT ONLY. THE ELECTRICAL CONTRACTOR SHALL ADJUST ACCORDINGLY IN THE FIELD, TO BALANCE CIRCUITS EVENLY ON ALL PHASES.
33.	REFER TO ARCHITECTURAL DRAWINGS FOR THE EXACT LOCATION AND MOUNTING HEIGHTS OF ALL DEVICES AND OUTLETS.
34.	CONTRACTOR TO PROVIDE ALL COORDINATION FOR UTILITY SERVICES FOR THE PROJECT. THIS INCLUDES POWER UTILITY, TELEPHONE COMPANY AND CABLE TV OPERATOR.
35.	CONTRACTOR TO PROVIDE ALL TEMPORARY POWER FOR THE PROJECT. PROVIDE ALL UTILITY COMPANY COORDINATION FOR ALL SERVICES.
36.	FOR ALL FLOOR/WALL/CEILING BOXES FOR DATA COMMUNICATIONS, CARD READERS AND INTERCOM SYSTEM PROVIDE EMPTY CONDUIT WITH DRAG LINE TO HUNG CEILING OR OTHER ACCESSIBLE SPACE. REFER TO ELECTRICAL LEGEND FOR CONDUIT SIZE.
37.	ELECTRICAL CONTRACTOR SHALL PAY ANY ADDITIONAL COST FOR THE UTILITY WORK ASSOCIATED WITH THE PROJECT.
38.	PROVIDE DIRECTORY FOR EACH AND EVERY PANELBOARD/LOAD CENTER.
39.	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.
40.	ELECTRICAL CONTRACTOR TO VERIFY LOADS, SETTINGS, OVERCURRENT PROTECTION.. ETC TO INSURE COMPATIBILITY OF EQUIPMENT.
41.	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
42.	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).
43.	ALL RECEPTACLES MOUNTED BACK TO BACK ON FIRE RATED PARTITIONS SHALL HAVE A MINIMUM SEPARATION OF 24" AND WITHIN A SEPARATE STUD CAVITY.

ELECTRICAL DRAWINGS LIST	
Sheet Number	Sheet Name
E-001	ELECTRICAL COVER SHEET
E-101	ELECTRICAL POWER PLAN
E-201	ELECTRICAL LIGHTING PLAN
E-301	ELECTRICAL POWER RISER DIAGRAM
E-401	ELECTRICAL DETAILS
E-402	ELECTRICAL DETAILS
E-501	ELECTRICAL LEGEND
E-601	FIRE ALARM SPECIFICATIONS
E-701	ELECTRICAL SPECIFICATIONS
E-702	ELECTRICAL SPECIFICATIONS 2

SINGLE PHASE FEEDER SCHEDULE				
CONDUCTORS (1 PH, 2W) WITH GROUND	CONDUIT SIZE	CONDUCTORS (1 PH, 3W) WITH GROUND	CONDUIT SIZE	OVERCURRENT RATING (2-POLE)
2#12 & 1#12G	3/4"	3#12 & 1#12G	3/4"	15A
2#12 & 1#12G	3/4"	3#12 & 1#12G	3/4"	20A
2#10 & 1#10G	3/4"	3#10 & 1#10G	3/4"	25A
2#10 & 1#10G	3/4"	3#10 & 1#10G	3/4"	30A
2#8 & 1#10G	3/4"	3#8 & 1#10G	3/4"	35A
2#8 & 1#10G	3/4"	3#8 & 1#10G	3/4"	40A
2#6 & 1#10G	3/4"	3#6 & 1#10G	1"	45A
2#6 & 1#10G	3/4"	3#6 & 1#10G	1"	50A
2#4 & 1#10G	1"	3#4 & 1#10G	1"	60A
2#4 & 1#8G	1"	3#4 & 1#8G	1"	70A
2#3 & 1#8G	1 1/4"	3#3 & 1#8G	1 1/4"	80A
2#2 & 1#8G	1 1/4"	3#2 & 1#8G	1 1/4"	90A
2#1 & 1#8G	1 1/4"	3#1 & 1#8G	1 1/2"	100A
-	-	3#1 & 1#6G	1 1/2"	110A
-	-	3#1/0 & 1#6G	1 1/2"	125A
-	-	3#1/0 & 1#6G	2"	150A
-	-	3#2/0 & 1#6G	2"	175A
-	-	3#3/0 & 1#6G	2"	200A
-	-	3#4/0 & 1#4G	2 1/2"	225A
-	-	3#250KCMIL & 1#4G	2 1/2"	250A
-	-	3#350KCMIL & 1#4G	3"	300A
-	-	3#500KCMIL & 1#3G	3"	350A
-	-	3#500KCMIL & 1#3G	3 1/2"	400A
-	-	(2)3#4/0 & 1#2G	(2) 3"	450A
-	-	(2)3#250KCMIL & 1#2G	(2) 3"	500A
-	-	(2)3#350KCMIL & 1#1G	(2) 3"	600A
NOTES: 1. UNLESS OTHERWISE INDICATED, CONDUCTOR SIZING SHALL MATCH THE SIZE INDICATED ABOVE FOR THE APPLICABLE OVER CURRENT DEVICE. PROVIDE LARGER CIRCUIT WHERE INDICATED. 2. PROVIDE MINIMUM SIZE CONDUIT INDICATED IN THE SPECIFICATIONS OR ON THE DRAWINGS. 3. PROVIDE A 4-WIRE CIRCUIT UNLESS DEVICE SERVED DOES NOT HAVE PROVISIONS FOR A NEUTRAL. 4. MINIMUM SIZE CONDUIT UNDERGROUND IS 4 INCH EXCEPT FOR SITE BRANCH CIRCUITS SUCH AS LIGHTING AND MISCELLANEOUS POWER AND SYSTEMS WHICH SHALL BE A MINIMUM OF 1 INCH. 5. PROVIDE TYPE OF RACEWAY OR CABLE AS INDICATED IN THE SPECIFICATIONS OR ON THE PLANS. 6. REFER TO MOTOR CIRCUIT SCHEDULE AND/OR DRAWINGS FOR CONDUCTOR AND CONDUIT SIZE REQUIREMENTS FOR MOTOR LOADS. * DISTANCE SHALL BE FIELD VERIFIED FOR VOLTAGE DROP				

THREE PHASE FEEDER SCHEDULE			
CIRCUIT BREAKER	CONDUCTOR (THWN/THHN) (3 PH, 3W) WITH GROUND	CONDUCTOR (THWN/THHN) (3 PH, 4W) WITH GROUND	CONDUIT SIZE
20,25 AMP	3 #12 & 1 #12 GND	4 #12 & 1 #12 GND	3/4"
30,35 AMP	3 #10 & 1 #10 GND	4 #10 & 1 #10 GND	3/4"
40,45,50 AMP	3 #8 & 1 #10 GND	4 #8 & 1 #10 GND	1"
60 AMP	3 #6 & 1 #10 GND	4 #6 & 1 #10 GND	1"
70,80 AMP	3 #4 & 1 #8 GND	4 #4 & 1 #8 GND	1 1/4"
90,100 AMP	3 #3 & 1 #8 GND	4 #3 & 1 #8 GND	1 1/2"
125 AMP	3 #1 & 1 #6 GND	4 #1 & 1 #6 GND	2"
150 AMP	3 #1/0 & 1 #6 GND	4 #1/0 & 1 #6 GND	2"
175 AMP	3 #2/0 & 1 #6 GND	4 #2/0 & 1 #6 GND	2"
200 AMP	3 #3/0 & 1 #6 GND	4 #3/0 & 1 #6 GND	2 1/2"
225 AMP	3 #4/0 & 1 #4 GND	4 #4/0 & 1 #4 GND	2 1/2"
250 AMP	3 #250kcmil & 1 #4 GND	4 #250kcmil & 1 #4 GND	3"
300 AMP	3 #350kcmil & 1 #4 GND	4 #350kcmil & 1 #4 GND	3 1/2"
400 AMP	(2 SETS) @ 3 #3/0 & 1 #3 GND	(2 SETS) @ 4 #3/0 & 1 #3 GND	(2) 2 1/2"
500 AMP	(2 SETS) @ 3 #250kcmil & 1 #2 GND	(2 SETS) @ 4 #250kcmil & 1 #2 GND	(2) 3"
600 AMP	(2 SETS) @ 3 #350kcmil & 1 #1 GND	(2 SETS) @ 4 #350kcmil & 1 #1 GND	(2) 4"
800 AMP	(3 SETS) @ 3 #300kcmil & 1 #1/0 GND	(3 SETS) @ 4 #300kcmil & 1 #1/0 GND	(3) 4"
NOTES: 1. ALL VALUES BASED ON COPPER CONDUCTORS 2. FEEDERS. UPGRADE WIRE TO MAINTAIN MAXIMUM OF 2% VOLTAGE DROP. BRANCH CIRCUITS UPGRADE WIRE TO MAINTAIN MAXIMUM OF 3% VOLTAGE DROP. 3. NUMBER OF WIRES SHALL BE DETERMINED WITH EQUIPMENT ELECTRICAL NAMEPLATECHARACTERISTICS. 4. WHERE NEUTRALS ARE REQUIRED, IT SHALL MATCH FEEDER CONDUCTOR SIZE. 5. USE CONDUCTOR (THWN/THHN) (3PH, 3W) WITH GROUND PRIMARY FEEDER FOR TRANSFORMERS.			



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Project Location:

Wellness Center

1849 Post Rd E

Westport, CT 06880

Project Number: 26-01071

Designed By: PA

Checked By: PA

Issued for:

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Sheet Title:

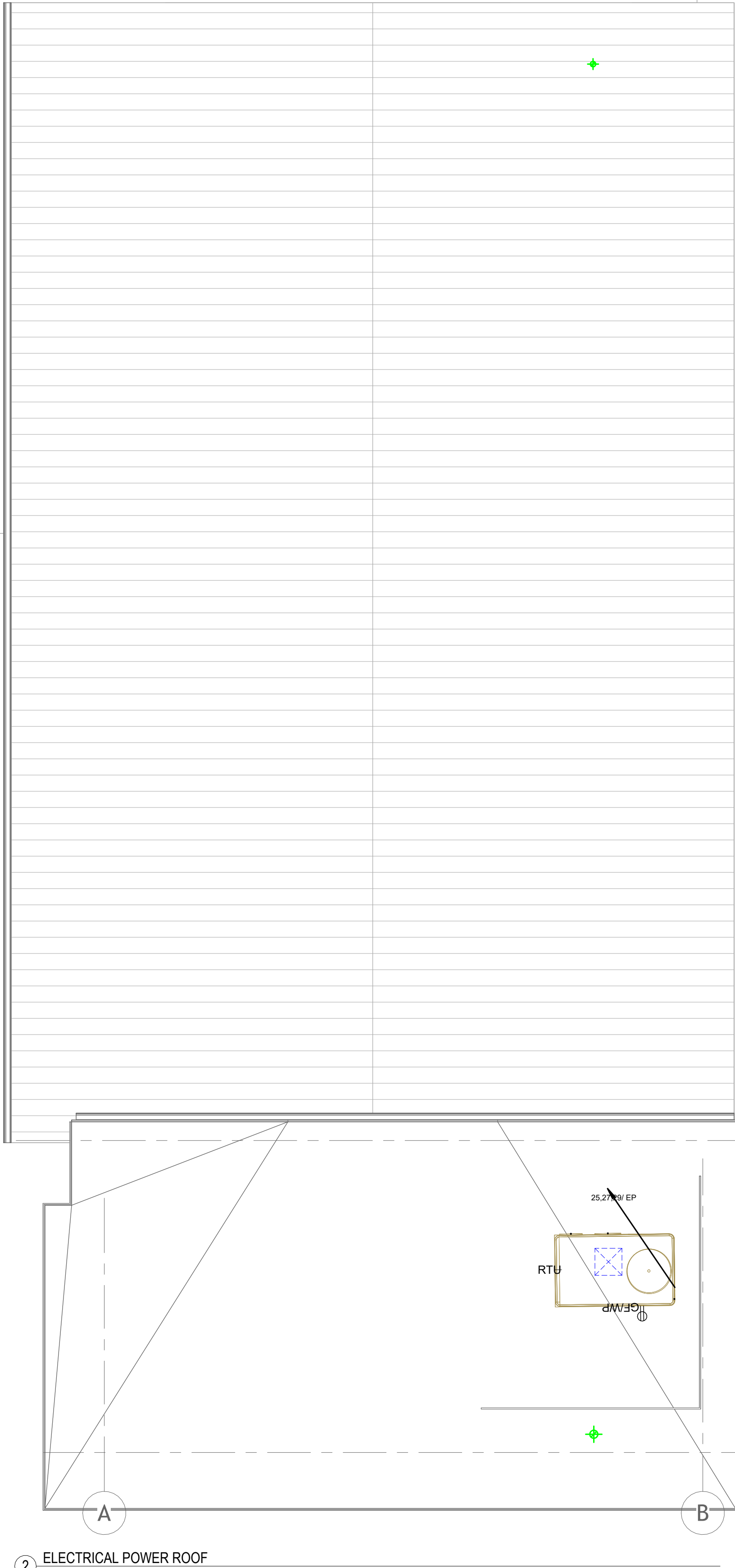
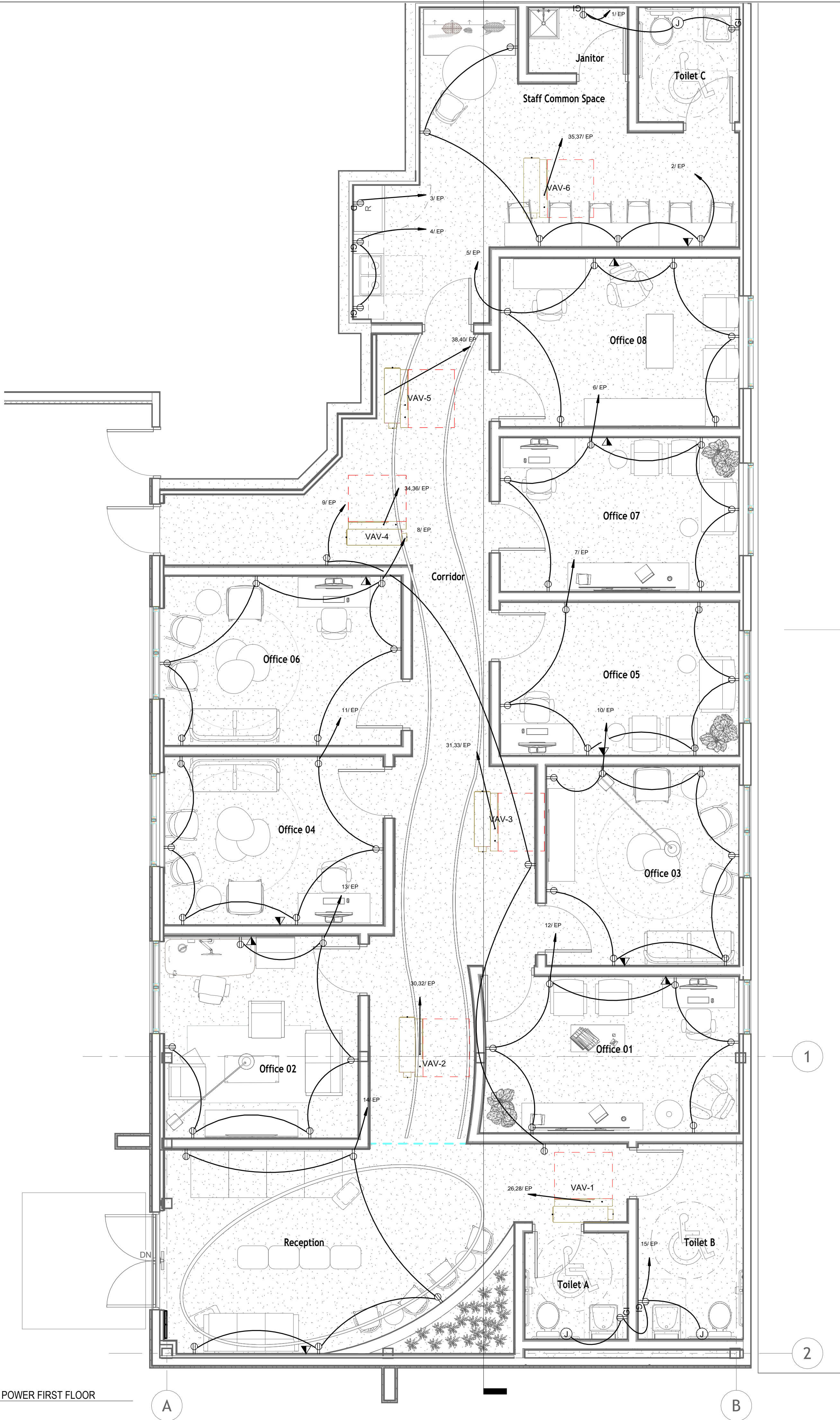
ELECTRICAL COVER SHEET

Sheet Number:

E-001

NOTES:

1. ALL CIRCUITRY SHOWN IS DIAGRAMMATIC AND IS ONLY TO BE USED AS A GUIDE. CONTRACTOR SHALL FIELD VERIFY EXACT CIRCUIT NUMBER.
2. REFER TO MECHANICAL AND PLUMBING DRAWING FOR THE EXACT LOCATION OF MECHANICAL AND PLUMBING EQUIPMENT PRIOR TO INSTALLATION.
3. ELECTRICAL CONTRACTOR SHALL INSTALL 3/4" EMPTY CONDUIT SYSTEM FSD, THERMOSTATS & AV EQUIPMENT INCLUDING A WALL MOUNTED 1900 BOX FOR THERMOSTAT MOUNTING. COORDINATE WITH RESPECTIVE TRADE VENDOR.
4. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH MECHANICAL CONTRACTOR & ARCHITECT FOR THE THERMOSTAT LOCATIONS. REFER TO MECHANICAL DRAWINGS FOR DETAILS.
5. REFER TO MECHANICAL SPECIFICATIONS FOR WIRING AND POWER REQUIREMENTS.
6. ELECTRICAL CONTRACTOR SHALL PROVIDE POWER AND HEAT TRACE FOR ALL EXPOSED, INSULATED DOMESTIC WATER PIPING AND ALL EXPOSED SANITARY TRAPS. AREA REFER TO PLUMBING PLANS FOR LOCATIONS AND SIZES OF PIPING. COORDINATE WITH PLUMBING CONTRACTOR.
7. FIRE ALARM CONTRACTOR SHALL PROVIDE MONITOR MODULES FOR ALL TAMPER, COORDINATE WITH FIRE PROTECTION PLANS.
8. FUTURE HANDICAPPED DWELLING UNITS SHALL BE FITTED WITH FIRE ALARM HORN/STROBE UNIT IN LIVING AREA AND FIRE ALARM STROBE UNIT IN EACH BEDROOM.
9. REFER TO LIGHTING FIXTURE SCHEDULE ON SHEET E-601 FOR LIGHTING SPECIFICATIONS. REFER TO DETAIL ON SHEET E-501 FOR INFORMATION ON EXTERIOR LIGHTING CONTROLS.
10. ALL WIRING TO BE TYPE NM CABLE; SER CABLE TO UNIT LOAD CENTERS.
11. ALL BRANCH CIRCUITS FOR KITCHEN RECEPTACLES SHALL BE GROUND FAULT/ARC FAULT.
12. EXHAUST FANS SUPPLIED BY MECHANICAL CONTRACTOR.
13. SMOKE ALARMS SHALL BE INTERCONNECTED AND POWERED BY LOAD CENTER. ALL SMOKE ALARMS SHALL BE BATTERY BACK-UP.
- 14.



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Project Location:

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Westport, CT 06880

Project Number 26-01071

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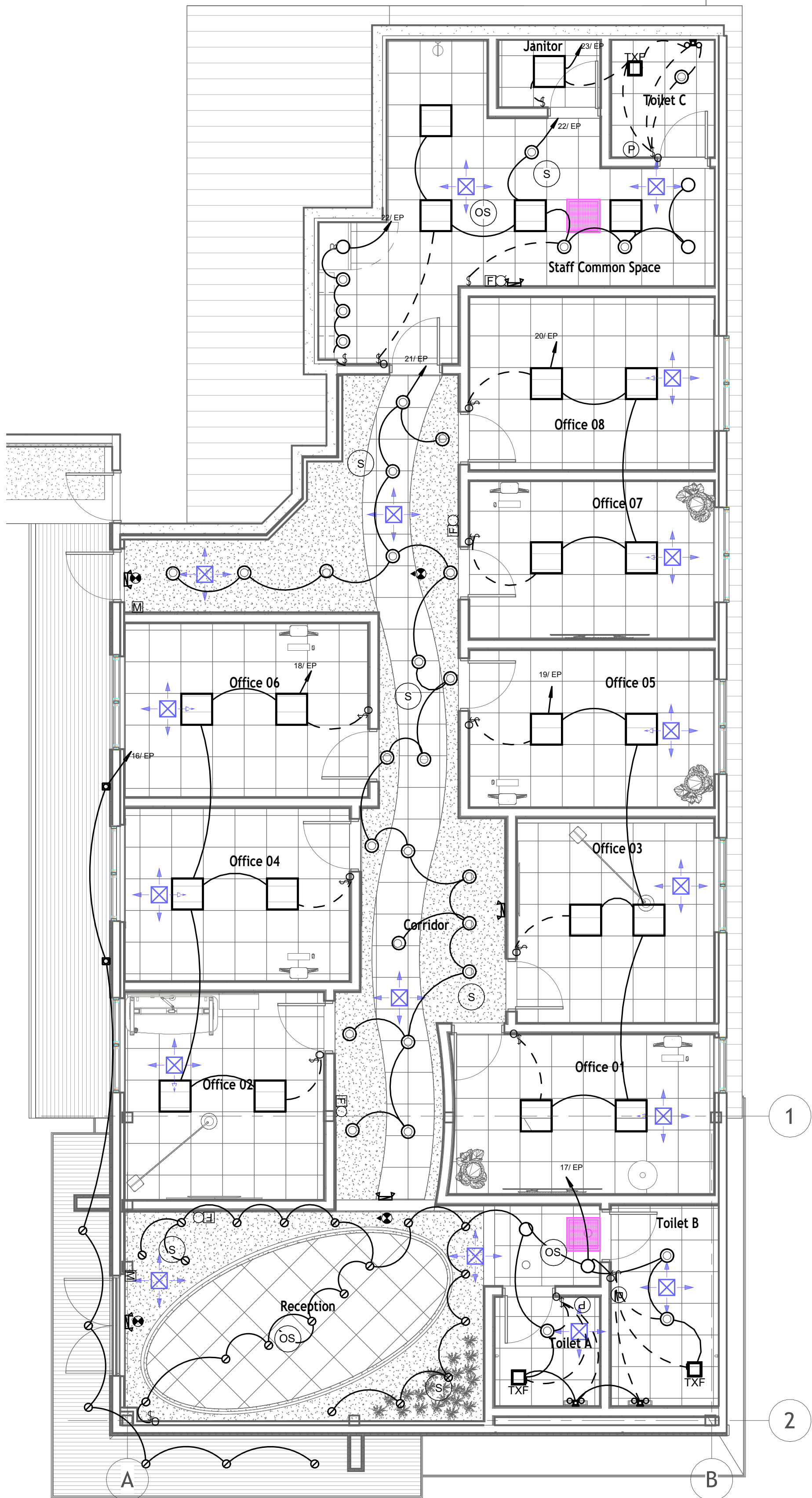
ELECTRICAL POWER PLAN

Sheet Number:

E-101

NOTES:

- CONTRACTOR TO FURNISH & INSTALL MINIMUM #10 AWG FOR BRANCH CIRCUIT WIRING TO LIGHTING FIXTURES.
- ELECTRICAL CONTRACTOR AND GENERAL CONTRACTOR TO PERFORM EMERGENCY LIGHTING TEST AFTER INSTALLATION WITNESSED BY OWNER REPRESENTATIVE.
- ALL LIGHTING CONTROL SYSTEM(S) SHALL BE TESTED BY A MANUFACTURER TRAINED TECHNICIAN IN THE PRESENCE OF THE OWNER REPRESENTATIVE.
- FURNISH & INSTALL WALL MOUNTED BATTERY PACK . CONNECT BATTERY PACKS AHEAD OF THE LIGHTING CONTROL SWITCH OR DEVICE SERVING THAT AREA UNLESS OTHERWISE NOTED., EMERGENCY BATTERY PACKS SHALL BE FED VIA NEAREST UNSTITCHED LIGHTING CIRCUITRY. (TAP AHEAD OF LIGHTING CONTROL CIRCUIT OR HOTLEG).
- ALL LIGHTING SHALL BE WIRED TO PANEL AS NOTED. REFER TO RESPECTIVE FLOOR PANEL SCHEDULE.
- COORDINATE WITH ARCHITECTURAL DRAWINGS FOR LIGHTING FIXTURES AND SENSOR LOCATIONS.
- ALL LIGHTING FIXTURES SHALL BE CONNECTED TO DESIGNATED LIGHTING PANEL UNLESS OTHERWISE NOTED.
- CIRCUITING IS DIAGRAMMATIC, CONTRACTOR TO DETERMINE AVAILABLE CIRCUITS SEE SCHEDULE.
- OCCUPANCY SENSORS:
 - CONTRACTOR SHALL BE RESPONSIBLE FOR THE COORDINATION OF THE APPROPRIATE OCCUPANCY & VACANCY SENSOR DEVICE FOR THE GIVEN VOLTAGE AND MAXIMUM/MINIMUM LOAD CONDITION.
 - EXACT LOCATION OF SENSOR SHALL BE COORDINATED BY THE CONTRACTOR FOR OPTIMUM COVERAGE. CONTRACTOR SHALL INSTALL FIELD-OF-VIEW TEMPLATES, AS REQUIRED, TO MASK THE VIEWING LENS TO PREVENT FALSE TRIGGERING FOR AUTO-ON OPERATION.
 - FINAL LOCATION OF ALL WALL OR CEILING MOUNTED SENSORS SHALL BE COORDINATED WITH MANUFACTURER INSTALLATION DRAWING AND APPROVED SHOP DRAWINGS.
 - ELECTRICAL CONTRACTOR TO COORDINATE INSTALLATION WITH THE APPROVED LIGHTING FIXTURE SUBMITTAL AND LIGHTING CONTROLS APPROVED SHOP DRAWINGS PRIOR TO INSTALLING ANY LIGHTING CONTROLS .
- WIRE EXIT LIGHTS TO A DEDICATED 20A CIRCUIT REFER TO PANEL SCHEDULE FOR CIRCUITING REQUIREMENTS.
- COORDINATE EXACT LOCATION/MOUNTING OF LIGHTING FIXTURES AND LIGHTING CONTROL DEVICES WITH ARCHITECT.
- CONTRACTOR TO MOUNT LIGHTING FIXTURES FROM UNISTRUT SYSTEM IF NECESSARY , WHERE THERE ARE ANY CONFLICTS WITH DUCT WORK OR OTHER. COORDINATE WITH ARCHITECT FOR APPROVAL.
- COORDINATE EXACT LOCATION OF ALL CEILING SENSORS WITH LIGHTING CONTROLS MANUFACTURER.



1 ELECTRICAL LIGHTING FIRST FLOOR
3/16" = 1'-0"



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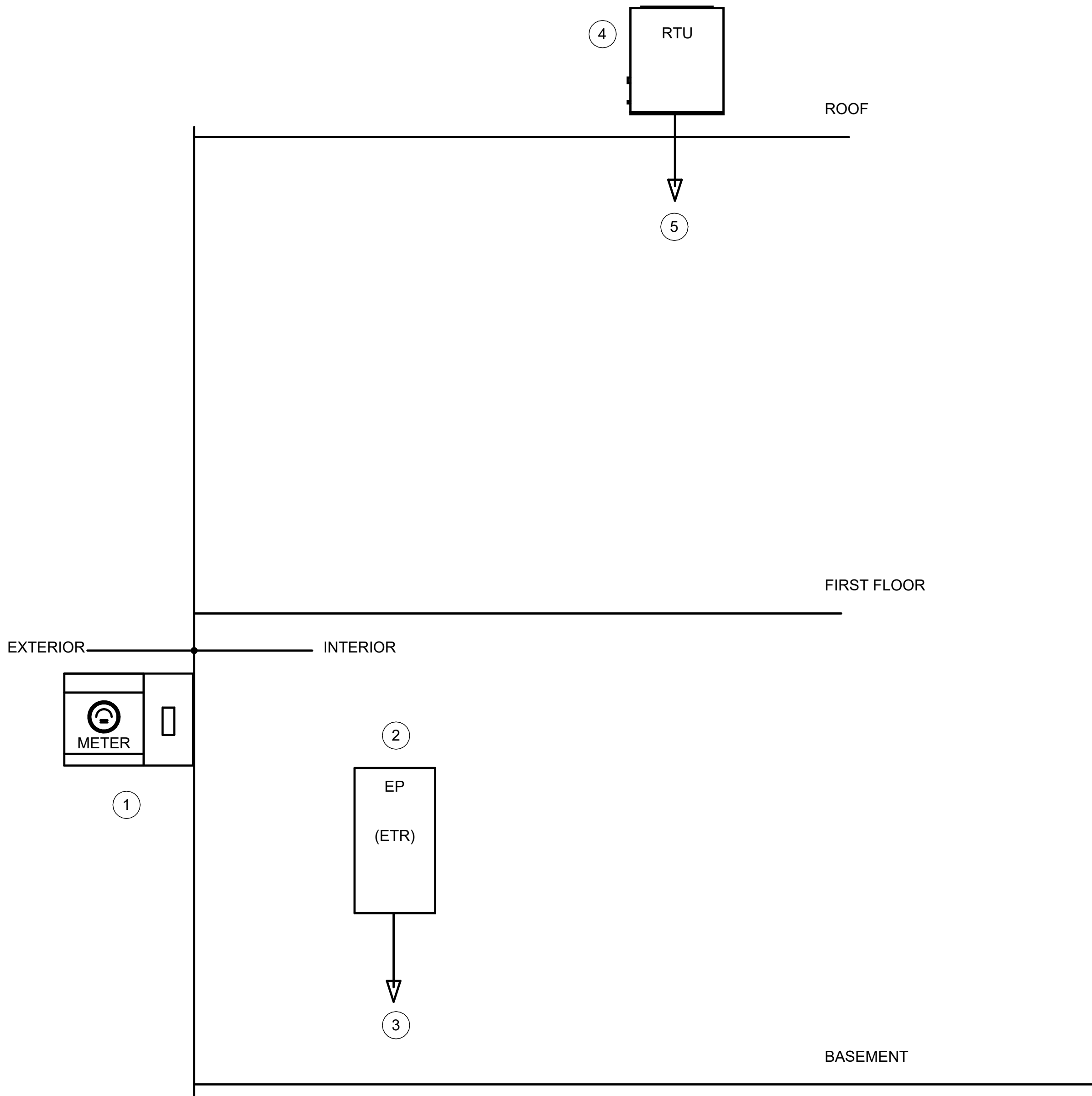
Sheet Title:

ELECTRICAL LIGHTING
PLAN

Sheet Number:

E-201

ELECTRICAL RISER DIAGRAM NOTES	
KEYNOTE NUMBER	DESCRIPTION
1	EXISTING ELECTRICAL METER TO REMAIN
2	EXISTING 400 AMP 3 PHASE 4 WIRE PANEL TO REMAIN
3	EXISTING TO REMAIN FEED FROM DESIGNATED METER
4	NEW 6T ROOF TOP UNIT
5	NEW CONDUCTOR TO EP (ETR 400 AMP) TO BE WIRE ACCORDING TO MANUFACTURER RECOMMENDATION



ELECTRICAL POWER RISER DIAGRAM
N.T.S.

Branch Panel: EP													
Location: Janitor 115				Volts: 120/208 Wye				A.I.C. Rating:					
Supply From:				Phases: 3				Mains Type:					
Mounting: Recessed				Wires: 4				Mains Rating: 150 A					
Enclosure: Type 1								MCB Rating: 150 A					
Notes:													
CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	Receptacle-JAN/TC	20 A	1	360 VA	900 VA					1	20 A	Receptacle-STAFF CS	2
3	Receptacle-REF	20 A	1			180 VA	360 VA			1	20 A	Receptacle-KIT	4
5	Receptacle-O8	20 A	1					1080...	1080...	1	20 A	Receptacle-O7	6
7	Receptacle-O5	20 A	1	1080...	1080...					1	20 A	Receptacle-O6	8
9	Receptacle-COR	20 A	1			540 VA	1260...			1	20 A	Receptacle-O3	10
11	Receptacle-O4	20 A	1					1080...	1080...	1	20 A	Receptacle-O1	12
13	Receptacle-O2	20 A	1	1080...	900 VA					1	20 A	Receptacle-REC	14
15	Receptacle-TA/TB	20 A	1			360 VA	166 VA			1	20 A	Lighting - EXTERIOR	16
17	Lighting- FRONT	20 A	1					1092...	240 VA	1	20 A	Lighting-O2-4-6	18
19	Lighting-O1-3-5	20 A	1	240 VA	160 VA					1	20 A	Lighting-O7-8	20
21	Lighting-COR	20 A	1			880 VA	520 VA			1	20 A	Lighting-STAFF CS	22
23	Lighting-BACK	20 A	1					244 VA	20 VA	1	20 A	exit signs	24
25	RTU	50 A	3	4567...	2250...					2	30 A	VAV-1	26
27	--	--	--			4567...	2250...			--	--	--	28
29	--	--	--					4567...	1250...	2	20 A	VAV-2	30
31	VAV-3	20 A	2	1250...	1250...					--	--	--	32
33	--	--	--			1250...	1250...			2	20 A	VAV-4	34
35	VAV-6	30 A	2					2250...	1250...	--	--	--	36
37	--	--	--	2250...	1250...					2	20 A	VAV-5	38
39	Spare	20 A	1			0 VA	1250...			--	--	--	40
41													42
Total Load:				18597 VA		14767 VA		15197 VA					
Total Amps:				156 A		123 A		127 A					
Legend:													
Load Classification		Connected Load		Demand Factor		Estimated Demand		Panel Totals					
HVAC		32700 VA		100.00%		32700 VA							
Lighting - Exterior		108 VA		125.00%		135 VA		Total Conn. Load: 48558 VA					
Other		0 VA		0.00%		0 VA		Total Est. Demand: 47374 VA					
Receptacle		12420 VA		90.26%		11210 VA		Total Conn.: 135 A					
Power		0 VA		0.00%		0 VA		Total Est. Demand: 131 A					
Lighting		3447 VA		100.00%		3447 VA							
Notes:													



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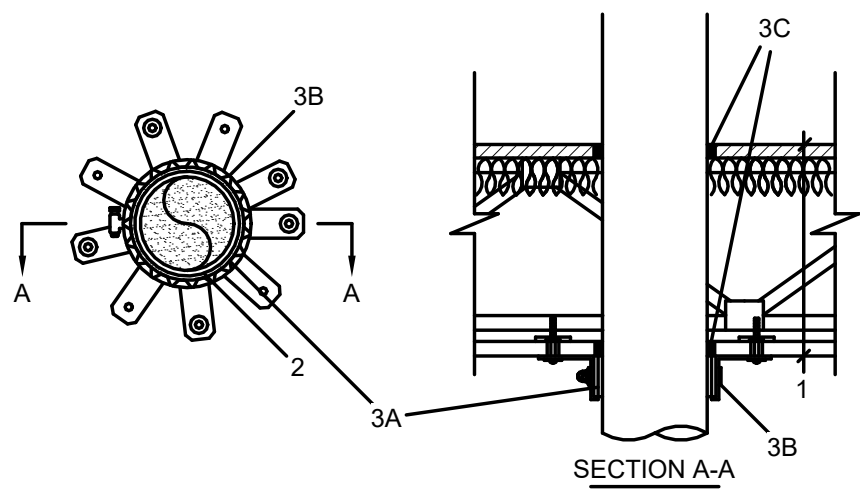
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Sheet Title:

ELECTRICAL POWER
RISER DIAGRAM

Sheet Number:

E-301

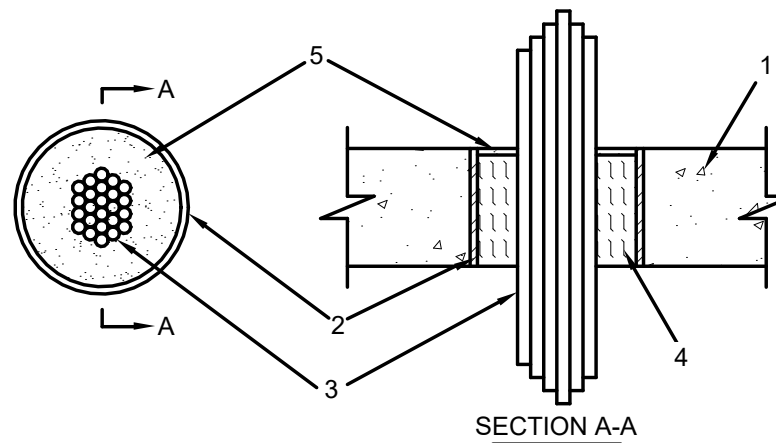


- FLOOR-CEILING ASSEMBLY -- 1 HR FIRE-RATED TRUSSED LUMBER JOIST FLOOR-CEILING ASSEMBLY.
- THROUGH PENETRANTS -- ONE NONMETALLIC PIPE OR CONDUIT TO BE INSTALLED CONCENTRICALLY OR ECCENTRICALLY WITHIN THE FIRESTOP SYSTEM. ANNULAR SPACE BETWEEN PIPE OR CONDUIT AND EDGE OF OPENING TO BE MIN 0 IN. (POINT CONTACT) AND MAX 1/2 IN. PIPE OR CONDUIT TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF FLOOR-CEILING ASSEMBLY. THE FOLLOWING TYPES AND SIZES OF NONMETALLIC PIPES OR CONDUITS MAY BE USED:
A. POLYVINYL CHLORIDE (PVC) PIPE -- NOM 4 IN. DIAM (OR SMALLER) SCHEDULE 40 SOLID OR CELLULAR CORE PVC PIPE FOR USE IN CLOSED (PROCESS OR SUPPLY) OR VENTED (DRAIN, WASTE OR VENT) PIPING SYSTEMS.
B. CHLORINATED POLYVINYL CHLORIDE (CPVC) PIPE -- NOM 4 IN. DIAM (OR SMALLER) SDR13.5 CPVC PIPE FOR USE IN CLOSED (PROCESS OR SUPPLY) PIPING SYSTEMS.
- FIRESTOP SYSTEM -- THE FIRESTOP SYSTEM SHALL CONSIST OF THE FOLLOWING:
A. FILL, VOID OR CAVITY MATERIAL* - WRAP STRIP -- NOM 3/16 IN. THICK BY 1-3/4 IN. WIDE INTUMESCENT WRAP STRIP. LAYERS OF WRAP STRIP CONTINUOUSLY WRAPPED AROUND THE PIPE AND HELD IN PLACE WITH TAPE. WRAP STRIP BUTTED TIGHTLY AGAINST SURFACE OF CEILING. HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC -- CP648-E W4581-3/4" WRAP STRIP.
B. STEEL COLLAR -- COLLAR FABRICATED FROM COILS OF PRECUT MIN 0.017 IN. THICK (NO. 28 MSG) GALV STEEL AVAILABLE FROM THE SEALANT MANUFACTURER. COLLAR SHALL BE NOM 1-3/4 IN. DEEP WITH 1 IN. WIDE BY 2 IN. LONG ANCHORS TABS ON 2 IN. CENTERS FOR SECUREMENT TO FLOOR/CEILING ASSEMBLY. THE OPPOSITE SIDE INCORPORATES RETAINER TABS, 1/2 IN. WIDE BY 3/16 IN. LONG, PREBENT TOWARD THE PIPE SURFACE. COLLAR SHALL BE TIGHTLY WRAPPED OVER THE WRAP STRIP, OVERLAPPING MIN. 1 IN AT SEAM, A NOM 1/2 IN. WIDE STAINLESS STEEL HOSE CLAMP SHALL BE SECURED TO THE COLLAR AT ITS MID-HEIGHT. EVERY OTHER ANCHOR TAB OF COLLAR SECURED TO GYPSUM CEILING WITH 1/4 IN. DIAMETER BY 1-1/2 IN. LONG STEEL TOGGLE BOLTS IN CONJUNCTION WITH 1/4 IN BY 3/4 IN DIAMETER STEEL WASHERS.
C. FILL, VOID OR CAVITY MATERIALS*-SEALANT -- MIN 5/8 IN. THICKNESS OF FILL MATERIAL APPLIED WITHIN THE ANNULUS, FLUSH WITH THE BOTTOM SURFACE OF THE GYPSUM BOARD CEILING. MIN 5/8 IN. THICKNESS OF FILL MATERIAL APPLIED WITHIN THE ANNULUS, FLUSH WITH THE TOP SURFACE OF THE FLOOR.
- FIRESTOP SYSTEM -- (OPTIONAL, NOT SHOWN) AS AN OPTION TO ITEM 3, THE FIRESTOP SYSTEM SHALL CONSIST OF THE FOLLOWING:
A. FIRESTOP DEVICES -- GALV STEEL COLLAR LINED WITH AN INTUMESCENT MATERIAL SIZED TO FIT THE SPECIFIC DIAM OF PIPE SHALL BE INSTALLED IN ACCORDANCE WITH THE ACCOMPANYING INSTALLATION INSTRUCTIONS. COLLAR TO BE INSTALLED AND LATCHED AROUND THE PIPE AND SECURED TO THE GYPSUM BOARD CEILING WITH 1/4 IN. DIAM BY 1-1/2 IN. LONG STEEL TOGGLE BOLTS WITH 3/4 IN. DIAM STEEL WASHERS THROUGH HANGER TABS PROVIDED. HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC -- CP 643 50/1.5"N, CP 643 63/2"N, CP 643 90/3"N OR CP 643 110/4"N FIRESTOP COLLAR.
B. FILL, VOID OR CAVITY MATERIALS*-SEALANT -- MIN 5/8 IN. THICKNESS OF FILL MATERIAL APPLIED WITHIN THE ANNULUS, FLUSH WITH THE BOTTOM SURFACE OF THE GYPSUM BOARD CEILING. MIN 5/8 IN. THICKNESS OF FILL MATERIAL APPLIED WITHIN THE ANNULUS, FLUSH WITH THE TOP SURFACE OF THE FLOOR.

DETAIL OF ELECTRICAL PENETRATIONS THROUGH 1 HR WOOD

TRUSS FLOOR ASSEMBLIES UL/cUL SYSTEM NO. F-C-2232

N.T.S.

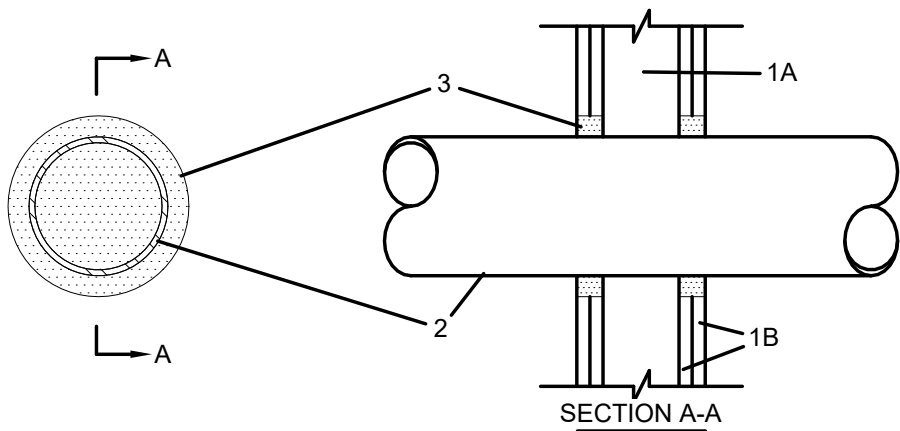


- FLOOR OR WALL ASSEMBLY -- MIN 4-1/2 IN. THICK REINFORCED CONCRETE FLOOR OR UL CLASSIFIED CONCRETE BLOCKS*, MAX DIAMETER OF OPENING IS 6 IN.
- STEEL SLEEVE -- (OPTIONAL) -- NOM 6 IN. (152 MM) DIAM (OR SMALLER) SCHEDULE 40 (OR HEAVIER) STEEL PIPE CAST OR GROUTED INTO FLOOR OR WALL ASSEMBLY, FLUSH WITH FLOOR OR WALL SURFACES.
- CABLES -- AGGREGATE CROSS-SECTIONAL AREA OF CABLES IN OPENING TO BE MAX 45 PERCENT OF THE AGGREGATE CROSS-SECTIONAL AREA OF THE OPENING. CABLES TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF FLOOR OR WALL ASSEMBLY. ANY COMBINATION OF THE FOLLOWING TYPES AND SIZES OF METALLIC CONDUCTOR OR FIBER OPTIC CABLE MAY BE USED:
A. MAX 500 KCMIL SINGLE COPPER CONNECTOR POWER CABLE WITH THERMOPLASTIC INSULATION AND POLYVINYL CHLORIDE (PVC) JACKET.
B. MAX 300 PAIR NO. 24 AWG COPPER CONDUCTOR TELECOMMUNICATION CABLES WITH POLYVINYL CHLORIDE (PVC) INSULATION AND JACKET MATERIAL.
C. MAX 7/C COPPER CONDUCTOR NO. 12 AWG MULTICONDUCTOR POWER AND CONTROL CABLES WITH POLYVINYL CHLORIDE (PVC) OR CROSS-LINKED POLYETHYLENE (XLPE) INSULATION AND PVC JACKET.
D. MULTIPLE FIBER OPTICAL COMMUNICATION CABLES JACKETED WITH PVC AND HAVING A MAX OUTSIDE DIAM OF 1/2 IN. (13 MM).
E. MAX 3/C COPPER CONDUCTOR NO. 12 AWG WITH BARE ALUMINUM GROUND, POLYVINYL CHLORIDE (PVC) INSULATED STEEL METAL-CLAD CABLE.
F. MAX 3/C WITH GROUND 2/0 AWG COPPER CONDUCTOR SER CABLE WITH CROSS-LINKED POLYETHYLENE (XLPE) INSULATION AND POLYVINYL CHLORIDE (PVC) JACKET.
G. RG/U COAXIAL CABLE WITH POLYETHYLENE (PE) INSULATION AND POLYVINYL CHLORIDE (PVC) JACKET HAVING A MAX OUTSIDE DIAMETER OF 1/2 IN. (13 MM)
H. FIRE RESISTIVE CABLES* - MAX 1-1/4 IN. (32 MM) DIAM SINGLE CONDUCTOR OR MULTI CONDUCTOR TYPE MI CABLE. A MIN 1/8 IN. (3 MM) SEPARATION SHALL BE MAINTAINED BETWEEN ALL CABLES AND ANY OTHER TYPES OF CABLE. TYPES OF CABLES, PACKING MATERIALS OF MIN 4-1/4 IN. (108 MM) THICKNESS OF MIN 4 PCF (64 KG/M3) MINERAL WOOL BATT INSULATION FIRMLY PACKED INTO OPENING AS A PERMANENT FORM. PACKING MATERIAL TO BE RECESSED FROM TOP SURFACE OF FLOOR TO ACCOMMODATE THE REQUIRED THICKNESS OF FILL MATERIAL.
- FILL, VOID OR CAVITY MATERIAL* -- SEALANT -- MIN 1/4 IN. (6.4 MM) THICKNESS OF FILL MATERIAL APPLIED WITHIN THE ANNULUS, FLUSH WITH TOP SURFACE OF FLOOR OR WITH BOTH SURFACES OF WALL.

DETAIL OF ELECTRICAL PENETRATIONS THROUGH 2 # 3 HR

CONCRETE # CMU ASSEMBLIES UL/cUL SYSTEM NO. C-AJ-3216

N.T.S.

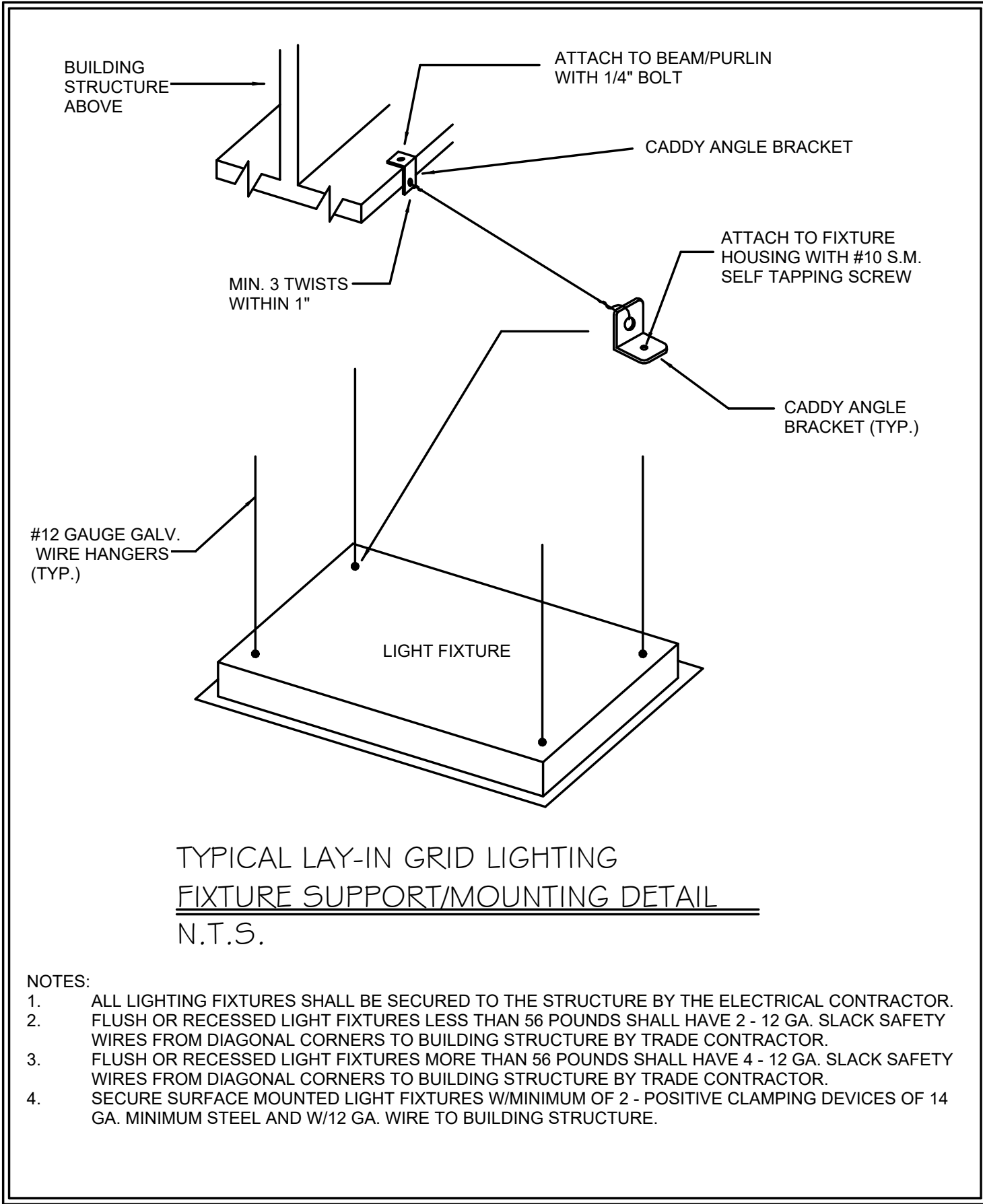


- WALL ASSEMBLY -- FOR 1 OR 2 HR FIRE-RATED GYPSUM BOARD/STUD WALL ASSEMBLY.
- THROUGH PENETRANTS -- ONE METALLIC PIPE, CONDUIT OR TUBING TO BE INSTALLED EITHER CONCENTRICALLY OR ECCENTRICALLY WITHIN THE FIRESTOP SYSTEM. THE ANNULAR SPACE SHALL BE MIN 0 IN. TO MAX 2-1/4 IN. PIPE MAY BE INSTALLED WITH CONTINUOUS POINT CONTACT. PIPE, CONDUIT OR TUBING RIGIDLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY. THE FOLLOWING TYPES AND SIZES OF METALLIC PIPES, CONDUIT OR TUBING MAY BE USED:
A. STEEL PIPE -- NOM 30 IN DIAM (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL PIPE.
B. IRON PIPE -- NOM 30 IN DIAM (OR SMALLER) CAST OR DUCTILE IRON PIPE.
C. CONDUIT -- NOM 4 IN DIAM (OR SMALLER) STEEL ELECTRICAL METALLIC TUBING OR 6 IN. DIAM STEEL CONDUIT.
D. COPPER TUBING -- NOM 6 IN. DIAM (OR SMALLER) TYPE L (OR HEAVIER) COPPER TUBING.
E. COPPER PIPE -- NOM 6 IN. DIAM (OR SMALLER) REGULAR (OR HEAVIER) COPPER PIPE.
- FILL, VOID OR CAVITY MATERIAL* -- SEALANT -- MIN 5/8 IN. THICKNESS OF FILL MATERIAL APPLIED WITHIN THE ANNULUS, FLUSH WITH BOTH SURFACES OF WALL AT THE POINT OF CONTINUOUS CONTACT LOCATIONS BETWEEN PIPE AND WALL. A MIN 1/2 IN. DIAMETER BEAD OF FILL MATERIAL SHALL BE APPLIED AT THE PIPE WALL INTERFACE ON BOTH SURFACES OF WALL.

DETAIL OF ELECTRICAL PENETRATIONS THROUGH 1 # 2 HR

WOOD FRAME ASSEMBLIES UL/cUL SYSTEM NO. F-C-1059

N.T.S.



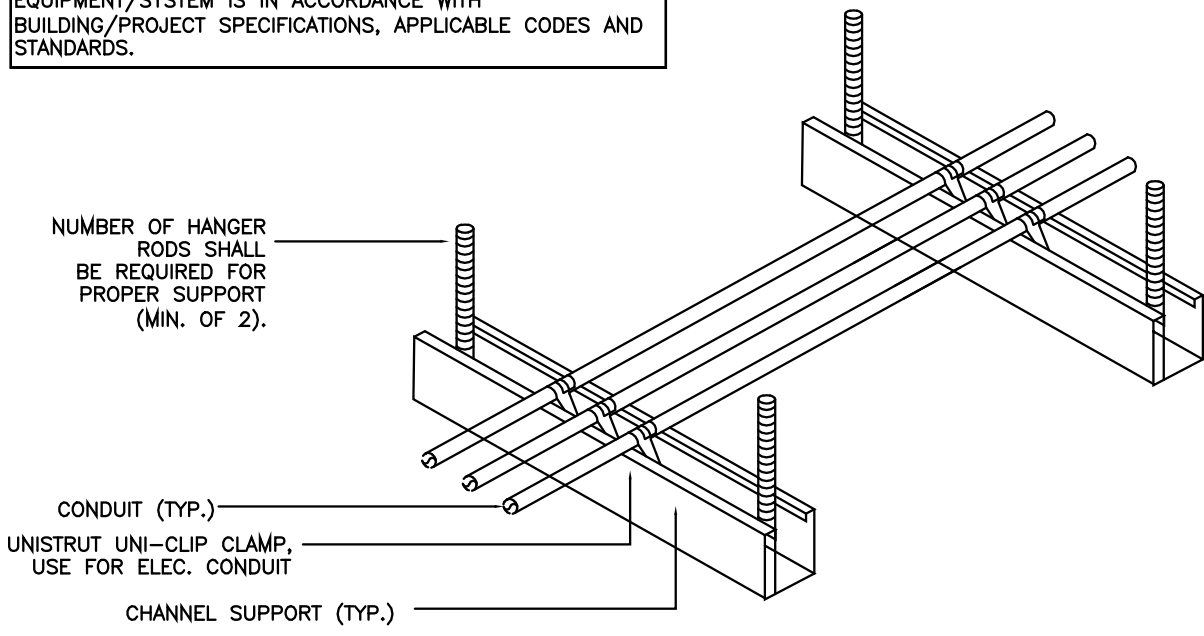
TYPICAL LAY-IN GRID LIGHTING FIXTURE SUPPORT/MOUNTING DETAIL

N.T.S.

- NOTES:
- ALL LIGHTING FIXTURES SHALL BE SECURED TO THE STRUCTURE BY THE ELECTRICAL CONTRACTOR.
 - FLUSH OR RECESSED LIGHT FIXTURES LESS THAN 56 POUNDS SHALL HAVE 2 - 12 GA. SLACK SAFETY WIRES FROM DIAGONAL CORNERS TO BUILDING STRUCTURE BY TRADE CONTRACTOR.
 - FLUSH OR RECESSED LIGHT FIXTURES MORE THAN 56 POUNDS SHALL HAVE 4 - 12 GA. SLACK SAFETY WIRES FROM DIAGONAL CORNERS TO BUILDING STRUCTURE BY TRADE CONTRACTOR.
 - SECURE SURFACE MOUNTED LIGHT FIXTURES W/MINIMUM OF 2 - POSITIVE CLAMPING DEVICES OF 14 GA. MINIMUM STEEL AND W/12 GA. WIRE TO BUILDING STRUCTURE.

1. 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 NEC AND APPLICABLE LOCAL CODES.

NOTE:
THIS INFORMATION MAY NOT CONTAIN ALL DETAILS REQUIRED FOR CONSTRUCTION. APPROPRIATE MODIFICATION MAY BE REQUIRED TO ENSURE SUITABILITY OF THESE DRAWINGS FOR THE SPECIFIC APPLICATION. IT IS THE USER'S RESPONSIBILITY TO ENSURE INSTALLATION OF THE EQUIPMENT/SYSTEM IS IN ACCORDANCE WITH BUILDING/PROJECT SPECIFICATIONS, APPLICABLE CODES AND STANDARDS.

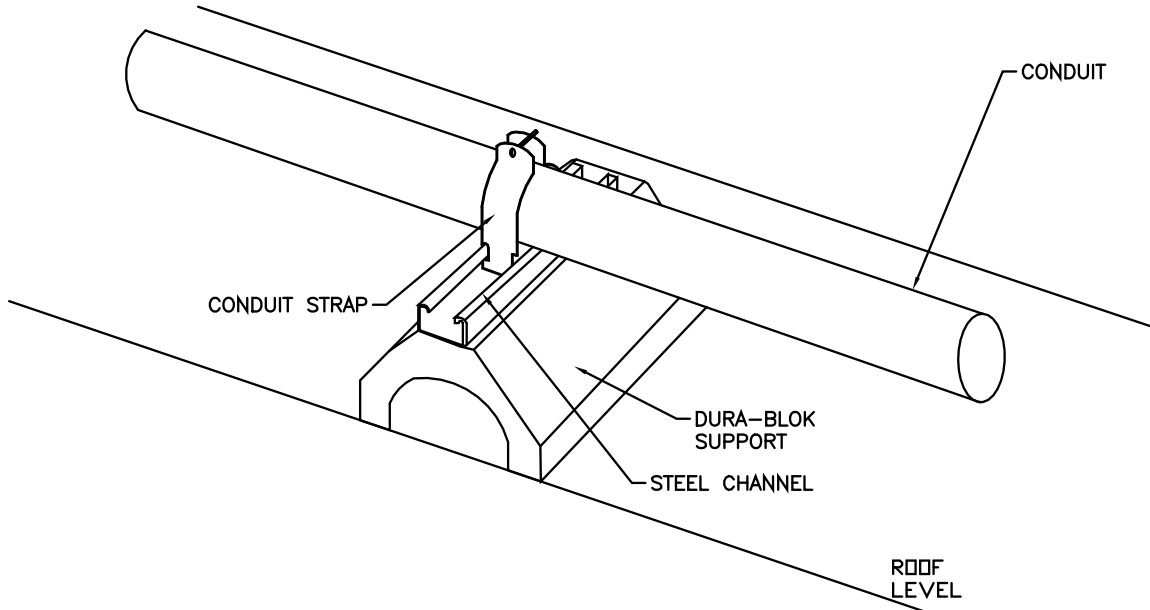


NOTES:

- ALL CONDUIT MAY BE COMBINED ON SAME SUPPORT CHANNEL WHERE PRACTICAL.
- SUPPORT CHANNEL LENGTH SHALL NOT BE DETERMINED UNTIL ALL PIPING, CONDUIT, ETC. TO BE SUPPORTED IS COORDINATED.
- SUPPORT CHANNEL SPACING SHALL BE NO MORE THAN 10'-0".
- UNISTRUT AND CONDUIT INSTALLATION MAY BE REVERSED.

CONDUIT SUPPORT

N.T.S.



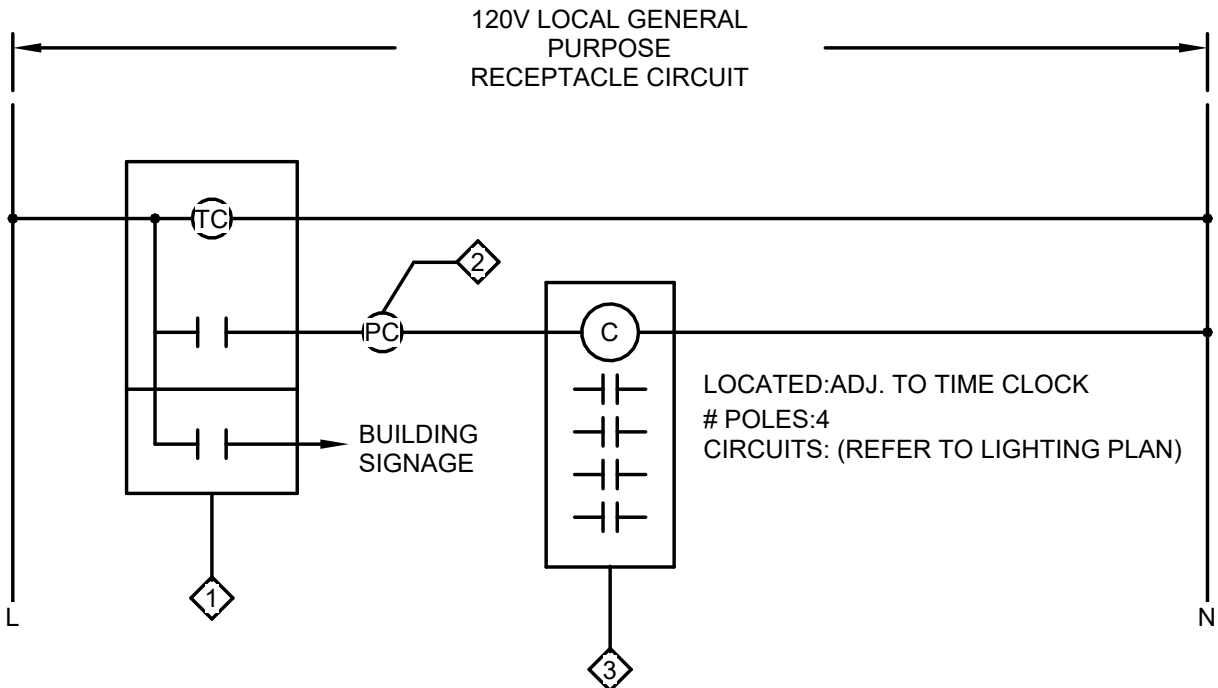
NOTES:

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- SUPPORT CHANNEL LENGTH SHALL NOT BE DETERMINED UNTIL ALL PIPING, CONDUIT, ETC. TO BE SUPPORTED IS COORDINATED.
- SUPPORT CHANNEL SPACING SHALL BE NO MORE THAN 10'-0".

CONDUIT SUPPORT ON ROOF

N.T.S.

EXTERIOR LIGHTING CONTROLS LEGEND			
TAG	MODEL NO.	DESCRIPTION	NOTES
①	TORK DZS200BP OR EQUIVALENT INTERMATIC OR SQUARE D	DIGITAL PROGRAMMABLE TIME CLOCK 24HR, 7DAY 365DAY, SEASONAL SCHEDULING, 99 ON/OFF POINTS, PERMANENT SCHEDULE RETENTION ON POWER LOSS, POWER OUTAGE BACKUP, AUTOMATIC LEAP YEAR AND DAYLIGHT SAVINGS TIME ADJ., MECHANICALLY HELD CONTACTS, MULTI VOLTAGE INPUT.	1,2
②	TORK 2100 SERIES OR EQUIVALENT INTERMATIC OR SQUARE D	PHOTOCELL 1800W, 15A, -40 DEG. TO 140 DEG., SOLID STATE SPST, DRY CONTACT, LIGHT LEVEL RANGE 1.5 TO 10fc W/ADJUSTMENT, TIME DELAY 15 SEC. MINIMUM	3
③	ASCO 917 SERIES WITH 2 WIRE CONTROL OPTION OR EQUIVALENT GE OR SQUARED	CONTACTOR ELECTRICALLY OPERATED, MECHANICALLY HELD, 20A LIGHTING CONTACTOR. CONTROL VOLTAGE AS LISTED, FROM LOCAL GENERAL PURPOSE RECEPTACLE CIRCUIT.	4
NOTES: 1. TIMECLOCK SHALL BE PROGRAMMED TO TURN SITE LIGHTING ON AT DUSK (VIA PHOTOCELL) AND OFF AT 10 P.M. DAILY AS PER TOWN ZONING REQUIREMENTS. 2. LOCATE TIME CLOCK ADJACENT TO ELECTRICAL PANEL. 3. PHOTOCELL TO BE LOCATED ON NORTHERN EXPOSURE. 4. SEE CONTACTOR DIAGRAM FOR VOLTAGE AND NUMBER OF POLES.			



EXTERIOR LIGHTING CONTROLS

N.T.S.



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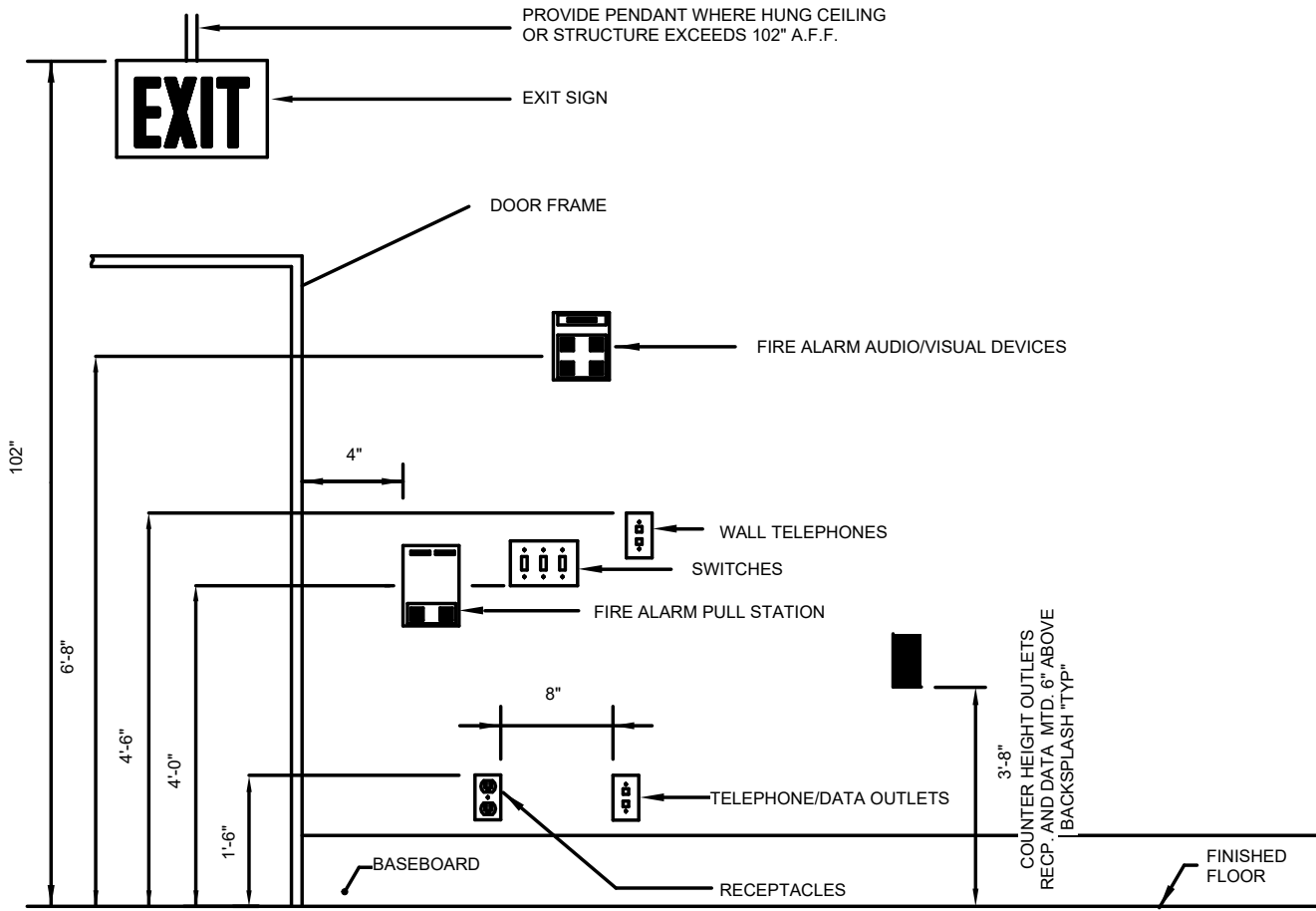
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Sheet Title:

ELECTRICAL DETAILS

Sheet Number:

E-401



NOTE:
THE LOCATION OF WALL OUTLETS IS DIRECTLY RELATED TO THE FURNITURE LOCATION. SPECIAL ATTENTION SHALL BE GIVEN TO LOCATING OUTLETS PER THIS DETAIL. DO NOT INSTALL OUTLETS BACK TO BACK.

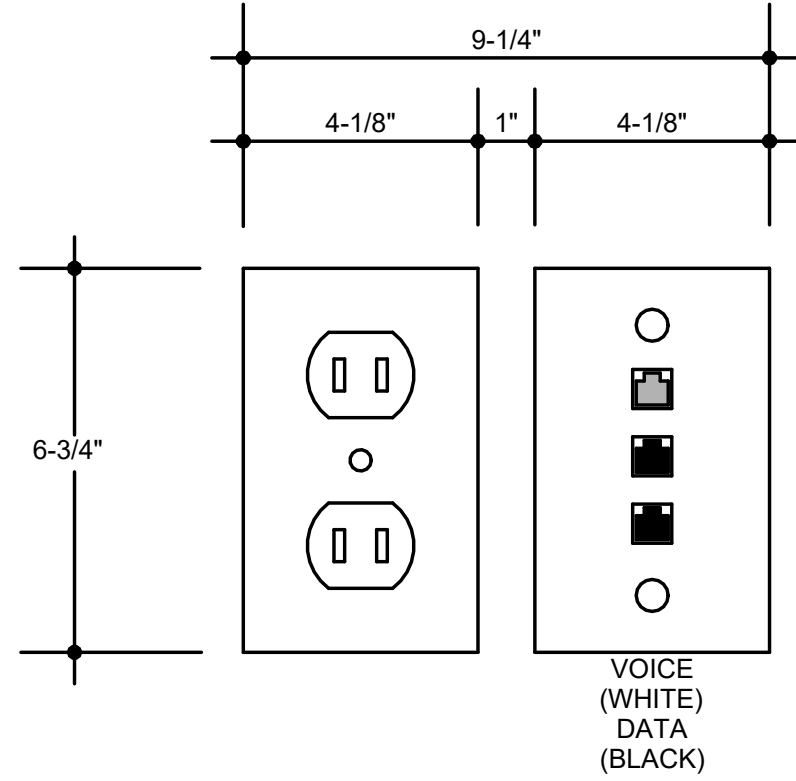
MOUNTING HEIGHTS

RECEPTACLE	18" AFF TO TOP OF THE BOX "TYP"
LIGHT SWITCHES	48" AFF TO TOP OF THE BOX "TYP"
CLOCK OUTLETS	7'-6" AFF "TYP"
FA STROBES	7'-6" AFF "TYP"
PULL STATION	48" AFF TO TOP OF THE BOX "TYP"
PANELBOARDS	6'-7" MAXIMUM HEIGHT TO THE CENTER OF THE GRIP OF THE OPERATING HANDLE OF THE SWITCH OR C/B, IN ITS HIGHEST POSITION, AFF, PER NEC "240.24 (A)", "TYP"

NOTE:
1-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 NEC AND APPLICABLE LOCAL CODES.
2-ALL MOUNTING HEIGHTS SHALL BE MEASURED FROM FINISHED FLOOR TO CENTERLINE OF DEVICE EXCEPT EXIT SIGNS.
3-DEVICES SHALL BE INSTALLED ON A COMMON VERTICAL CENTERLINE WHEREVER POSSIBLE.
4-WHERE SWITCHES AS SHOWN ON WINDOW SIDE. SWITCHES SHALL BE INSTALLED ON DOOR JAM UNLESS INSTRUCTED OTHERWISE BY OWNER/ARCHITECT.

TYPICAL DEVICE MOUNTING HEIGHT DETAIL

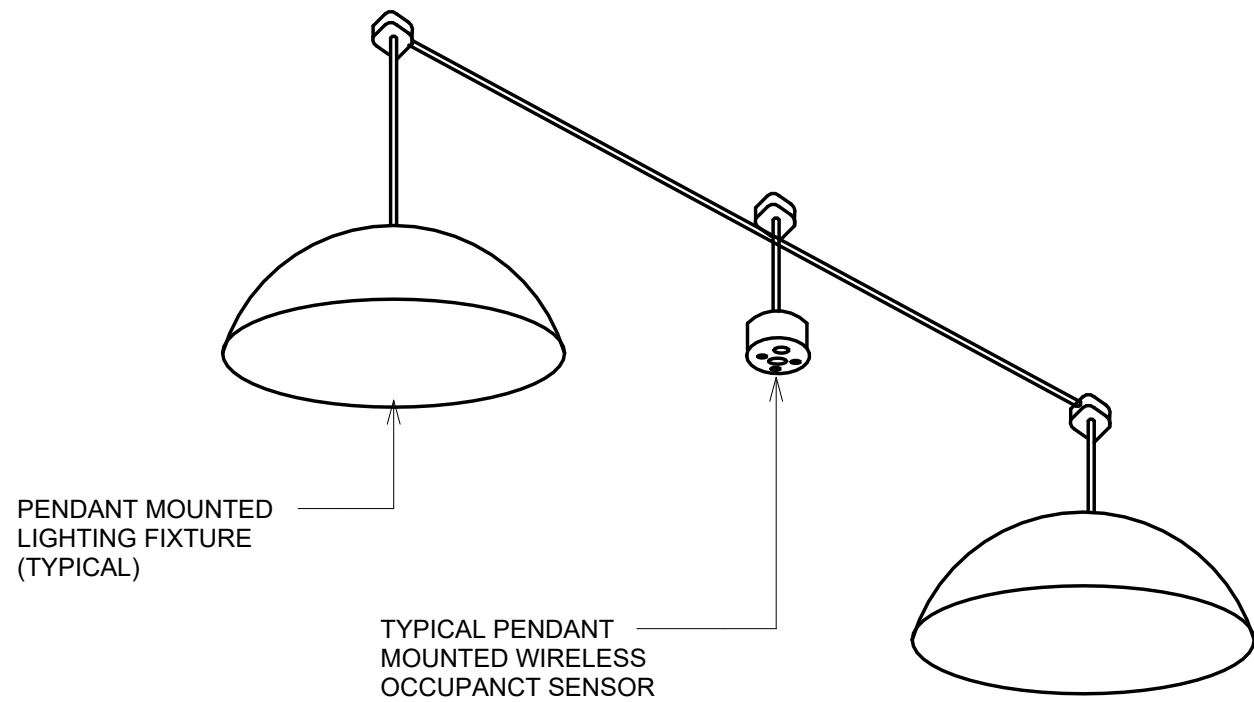
(TYP. ALL OUTLETS UNLESS OTHERWISE NOTED.)



WALL OUTLET DETAIL

N.T.S.

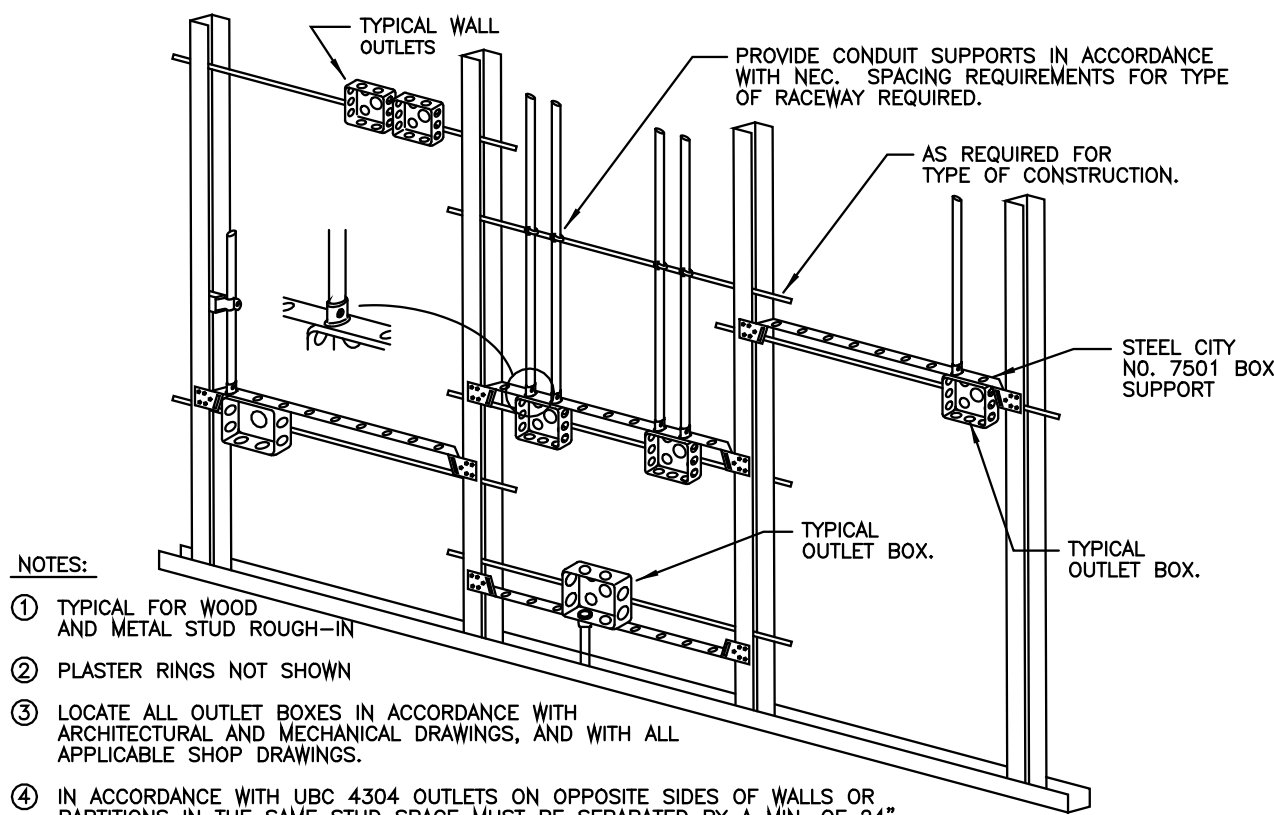
DETAIL NOTES:
1. DATA AND VOICE OUTLETS INDICATED ADJACENT TO EACH OTHER SHALL SHARE A COMMON BACKBOX AND FACE PLATE AS INDICATED.



TYPICAL PENDANT MOUNTED OCCUPANCY SENSOR DIAGRAM

N.T.S.

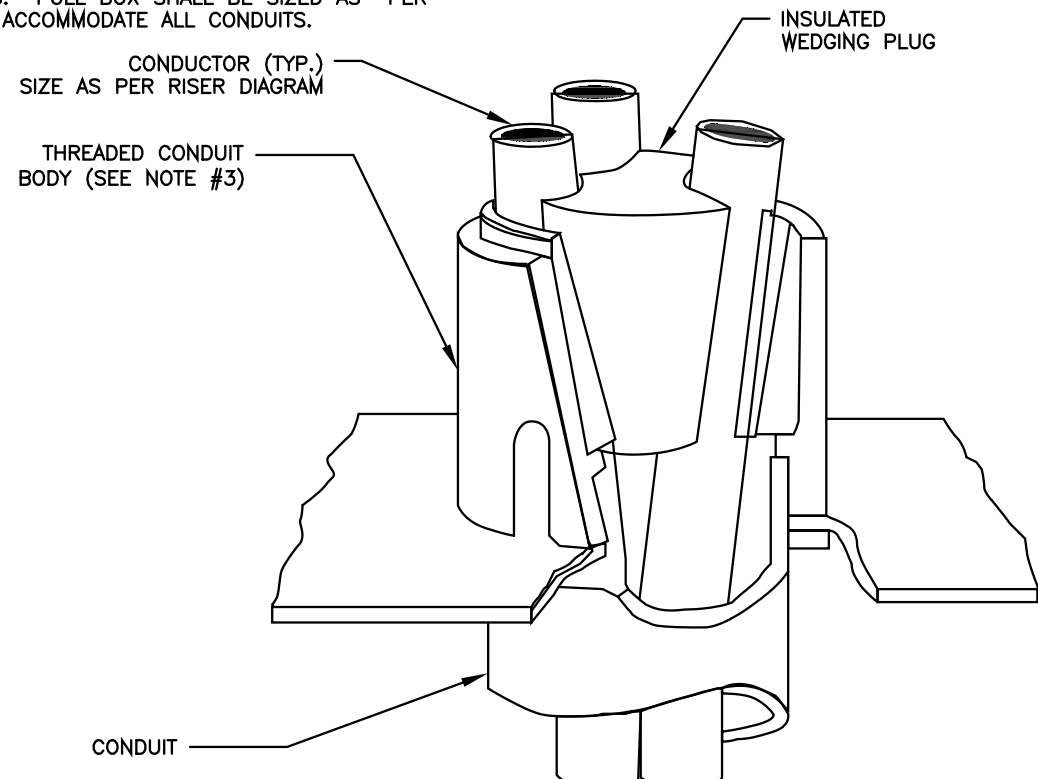
- NOTES:
- OCCUPANCY SENSOR SHALL BE MOUNTED AT LEAST 2' BELOW THE LOWEST PENDANT HUNG DUCT OR PIPING WHERE REQUIRED. FINAL MOUNTING HEIGHT TO BE DETERMINED IN FIELD.
 - IN AREAS WHERE THERE ARE NO OBSTRUCTIONS IN THE CEILING, THE WIRELESS SENSORS MAY BE INSTALLED TO THE UNDERSIDE OF THE CEILING.



TYPICAL ROUGH-IN REQUIREMENTS

N.T.S.

- NOTES:
- ALL CONDUCTORS IN VERTICAL RACEWAYS SHALL BE SUPPORTED IN ACCORDANCE WITH ARTICLE 300.19 OF NEC. CABLE SUPPORTS SHALL BE LOCATED AT THE INTERVALS REQUIRED BY THE NEC.
 - CABLE SUPPORT SYSTEM SHALL BE AS MANUFACTURED BY O-Z GEDNEY WITH POZI-GRIP "S-STYLE" WEDGING PLUG OR APPROVED EQUAL.
 - FOR THREADLESS CONDUIT (RIGID, IMC OR EMT), ATTACH CONDUIT BODY TO MALE THREADS OF A SET SCREW OR COMPRESSION CONNECT, AS PERMITTED BY SPECIFICATIONS.
 - PROVIDE PULL BOX AT EACH LOCATION OF CABLE SUPPORTS. PULL BOX SHALL BE SIZED AS PER CODE TO ACCOMMODATE ALL CONDUITS.



VERTICAL CABLE SUPPORT

N.T.S.



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Project Location:

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1849 Post Rd E
Westport, CT 06880

Project Number 26-01071

Designed By PA

Checked By PA

Issued for:

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Sheet Title:

ELECTRICAL DETAILS

Sheet Number:

E-402

ELECTRICAL LEGEND

POWER & LIGHTING		COMMUNICATION	
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
WP/SB WP D GI CTR 42 E	125V, 20A NEMA 5-20R DUPLEX RECEPTACLE WP/SB = WEATHERPROOF IN SECURE BOX WP = WEATHERPROOF D= DEDICATED GI = GROUND FAULT CIRCUIT INTERRUPTER CTR = COUNTER TOP # = MOUNTING HEIGHT (18" A.F.F. UNLESS OTHERWISE NOTED) E = EXISTING TO REMAIN		DATA OUTLET AND RACEWAY, TWO GANG BACKBOX WITH 1" CONDUIT SUBBED INTO AN ACCESSIBLE CEILING, PROVIDE WITH NYLON PULL STRING.
	125V, 20A NEMA 5-20R DUPLEX RECEPTACLE CEILING MOUNTED		COMBINATION TELEPHONE/DATA OUTLET AND RACEWAY, TWO GANG BACKBOX WITH 2 - 1" CONDUIT STUBBED INTO AN ACCESSIBLE CEILING, PROVIDE WITH NYLON PULL STRING.
			TELEPHONE OUTLET AND RACEWAY, TWO GANG BACKBOX WITH 1" CONDUIT STUBBED INTO AN ACCESSIBLE CEILING, PROVIDE WITH NYLON PULL STRING.
			CATV OUTLET AND RACEWAY, TWO GANG BACKBOX WITH 1" CONDUIT STUBBED INTO AN ACCESSIBLE CEILING, PROVIDE WITH NYLON PULL STRING.
	220V, 20A NEMA 14-30R RECEPTACLE (DRYER)		
	220V, 20A NEMA 14-50R RECEPTACLE (RANGE)		
	DISCONNECT SWITCH (WP = WEATHERPROOF)		
	FUSED DISCONNECT SWITCH (WP = WEATHERPROOF)		
	RECESSED LOAD CENTER PANEL - SQUARE 'D' SNAP IN BREAKERS		
	SURFACE MOUNTED POWER PANEL - SQUARE 'D' SNAP IN BREAKERS		
	BRANCH CIRCUIT HOMERUN, LETTERS INDICATE PANEL DESIGNATION AND NUMBERS INDICATE CIRCUIT NUMBER.		
	SINGLE POLE SWITCH		
	3-WAY SWITCH		
	KEYED SINGLE POLE SWITCH		
	DIMMERED SWITCH		
	OCCUPANCY SENSOR SWITCH		
	JUNCTION BOX		
	OCCUPATION SENSOR		
	DAY LIGHT SENSOR		
	BATHROOM EXHAUST FAN (BY MECHANICAL CONTRACTOR)		
	KITCHEN EXHAUST FAN (BY MECHANICAL CONTRACTOR)		

ELECTRICAL SYMBOL LEGEND NOTES:

"GF or GFI" - "GROUND FAULT INTERRUPTER RECEPTACLE"
IN ADDITION TO ALL LOCATIONS INDICATED ON THE ELECTRICAL PLANS THE ELECTRICAL CONTRACTOR SHALL PROVIDE A "GROUND FAULT INTERRUPTER RECEPTACLE" AT ALL LOCATIONS WITHIN 6' OF SINK AND AS REQUIRED PER THE NATIONAL ELECTRIC CODE.

LIGHTING FIXTURE SCHEDULE

	LED 2'x2' DROP-IN LIGHT FIXTURE (TBD BY ELECTRICIAN/OWNER)		TWIN HEAD EMERGENCY LIGHT PHILIPS CHLORIDE NICAD SURFACE MOUNT EMERGENCY LIGHT MODEL# CTX6N12WCSWD
	LED 6" RECESSED DOWN LIGHT (TBD BY ELECTRICIAN/OWNER)		EDGE LIT LED EXIT LIGHT LITHONIA LIGHTING EDG ALUMINUM LED EMERGENCY EXIT SIGN MODEL# EDG-1-R-EL-M6
	LED 6" RECESSED EXTERIOR LIGHT (TBD BY ELECTRICIAN/OWNER)		FL5324D-3000K 120V 17W 25.5" 3000K 1450 LM TO BE DETERMINED BY OWNER
NOTES:			
1. COORDINATE WITH PROJECT ARCHITECT FOR FIXTURE COLOR AND OTHER LIGHTING DETAILS OR LOCATIONS.			
2. ALL LIGHT FIXTURES WITHIN DWELLING UNITS SHALL HAVE LED LAMPS.			
3. ALL EXIT SIGNS AND EMERGENCY LIGHTING SHALL BE NOT LESS THAN ONE FOOT CANDLE AT THE WALKING SURFACE.			



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Project Number	26-01071
Designed By	PA
Checked By	PA

Issued for:

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Sheet Title:

ELECTRICAL LEGEND

Sheet Number:

E-501

FIRE ALARM SPECIFICATIONS

FIRE ALARM SYSTEM

PART 1 - GENERAL

1.01 GENERAL REQUIREMENTS

A. THE ENTIRE SYSTEM SHALL BE INSTALLED WITH AESTHETICS IN MIND. ALL CONTROL PANELS AND REMOTE ANNUNCIATORS INSTALLED IN PUBLIC SPACES SHALL BE SEMI-FLUSH MOUNTED WITH NO EXPOSED CONDUIT OR CABLE TRAYS.

1.02 SCOPE

A. THE WORK COVERED BY THIS SECTION OF THE SPECIFICATION SHALL INCLUDE ALL LABOR, EQUIPMENT, MATERIALS AND SERVICES TO EXPAND AND SUPPLEMENT THE NEW FIRE ALARM SYSTEM FURNISH AND INSTALL A COMPLETE FIRE ALARM SYSTEM OF THE ADDRESSABLE, NON-CODED TYPE. IT SHALL BE COMPLETE WITH ALL NECESSARY HARDWARE TO EXPAND UPON THE NEW SYSTEM AND REPROGRAM TO THE PARAMETERS HEREIN IT SHALL BE COMPLETE WITH ALL NECESSARY HARDWARE, SOFTWARE AND MEMORY SPECIFICALLY TAILORED FOR THIS INSTALLATION. IT SHALL BE POSSIBLE TO PERMANENTLY MODIFY THE SOFTWARE ON SITE BY USING A PLUG-IN PROGRAMMER.

1.04 PRODUCTS

A. ALL PRODUCTS USED SHALL BE OF A SINGLE MANUFACTURER. SUBMISSION OF NOTIFICATION APPLIANCES, AUXILIARY RELAYS, OR DOCUMENTATION FROM OTHER THAN A SINGLE MANUFACTURER SHALL NOT BE ACCEPTABLE AND WILL BE GROUNDS FOR IMMEDIATE DISAPPROVAL WITHOUT COMMENT.

2.01 FIRE ALARM SYSTEM SEQUENCE OF OPERATION

A. THE SYSTEM SHALL IDENTIFY ANY OFF NORMAL CONDITION AND LOG EACH CONDITION INTO THE SYSTEM DATABASE AS AN EVENT.

1. THE SYSTEM SHALL DISPLAY THE FIRST EVENT OF THE HIGHEST PRIORITY BY TYPE, (ALARM, SUPERVISORY, TROUBLE, AND MONITOR)

2. THE SYSTEM SHALL HAVE A LABELED COLOR CODED INDICATOR FOR EACH TYPE OF EVENT.

3. FOR EACH EVENT, THE DISPLAY SHALL INCLUDE THE CURRENT TIME, THE TOTAL NUMBER OF EVENTS, THE TYPE OF EVENT, THE TIME THE EVENT OCCURRED AND UP TO A 40 CHARACTER CUSTOM USER DESCRIPTION.

4. NEW ALARM, SUPERVISORY, OR TROUBLE EVENTS SHALL SOUND A SILENCING AUDIBLE SIGNAL AT THE CONTROL PANEL.

B. OPERATION OF ANY ALARM INITIATING DEVICE SHALL AUTOMATICALLY:

1. UPDATE THE CONTROL/DISPLAY AS DESCRIBED ABOVE (B.1.)

2. SOUND ALL AUDIBLE APPLIANCES (IN A PRE-RECORDED VOICE MESSAGE IF APPLICABLE).

3. ACTIVATE ALL STROBE APPLIANCES THROUGHOUT THE FACILITY. ALL STROBE APPLIANCES THROUGHOUT THE FACILITY SHALL BE SYNCHRONIZED WHERE ANY TWO ARE IN A COMMON VIEW. VISUAL DEVICES SHALL BE RESET PERTAINING TO DEPRESSING "SILENCE" AT THE FACP.

4. OPERATE CONTROL RELAY CONTACTS TO SHUTDOWN ALL HVAC UNITS SERVING THE FLOOR OF ALARM INITIATION.

5. OPERATE CONTROL RELAY CONTACTS TO RELEASE ALL MAGNETICALLY HELD SMOKE DOORS THROUGHOUT THE BUILDING.

6. VISUALLY ANNUNCIATE THE INDIVIDUAL POINT OF ALARM ON ALL REMOTE ANNUNCIATOR PANELS. THE VISUAL INDICATION SHALL REMAIN ON UNTIL THE ALARM CONDITION IS RESET TO NORMAL.

7. TRANSMIT AN ALARM CONDITION, VIA THE INTEGRAL CENTRAL STATION COMMUNICATOR, TO CENTRAL STATION/LOCAL FIRE DEPARTMENT (AS REQUIRED BY THE AHJ).

C. ACTIVATION OF A SPRINKLER SUPERVISORY INITIATING DEVICE SHALL: (IF APPLICABLE)

1. UPDATE THE CONTROL/DISPLAY AS DESCRIBED ABOVE (B.1.)

2. TRANSMIT A SUPERVISORY CONDITION, VIA THE INTEGRAL CENTRAL STATION COMMUNICATOR, TO CENTRAL STATION/LOCAL FIRE DEPARTMENT (AS REQUIRED BY THE AHJ).

3. VISUALLY ANNUNCIATE THE INDIVIDUAL POINT OF ALARM ON ALL REMOTE ANNUNCIATOR PANELS. THE VISUAL INDICATION SHALL REMAIN ON UNTIL THE ALARM CONDITION IS RESET TO NORMAL.

D. THE ENTIRE FIRE ALARM SYSTEM WIRING SHALL BE ELECTRICALLY SUPERVISED TO AUTOMATICALLY DETECT AND REPORT TROUBLE CONDITIONS TO THE FIRE ALARM CONTROL PANEL. ANY OPENS, GROUNDS OR DISARRANGEMENT OF SYSTEM WIRING AND SHORTS ACROSS ALARM SIGNALING WIRING SHALL AUTOMATICALLY:

1. UPDATE THE CONTROL/DISPLAY AS DESCRIBED ABOVE (B.1.)

2. TRANSMIT A TROUBLE CONDITION, VIA THE INTEGRAL CENTRAL STATION COMMUNICATOR, TO CENTRAL STATION/LOCAL FIRE DEPARTMENT (AS REQUIRED BY THE AHJ).

3. VISUALLY AND AUDIBLY ANNUNCIATE A GENERAL TROUBLE CONDITION, ON THE REMOTE ANNUNCIATOR PANELS. THE VISUAL INDICATION SHALL REMAIN ON UNTIL THE TROUBLE CONDITION IS REPAIRED.

2.02 COMPONENTS

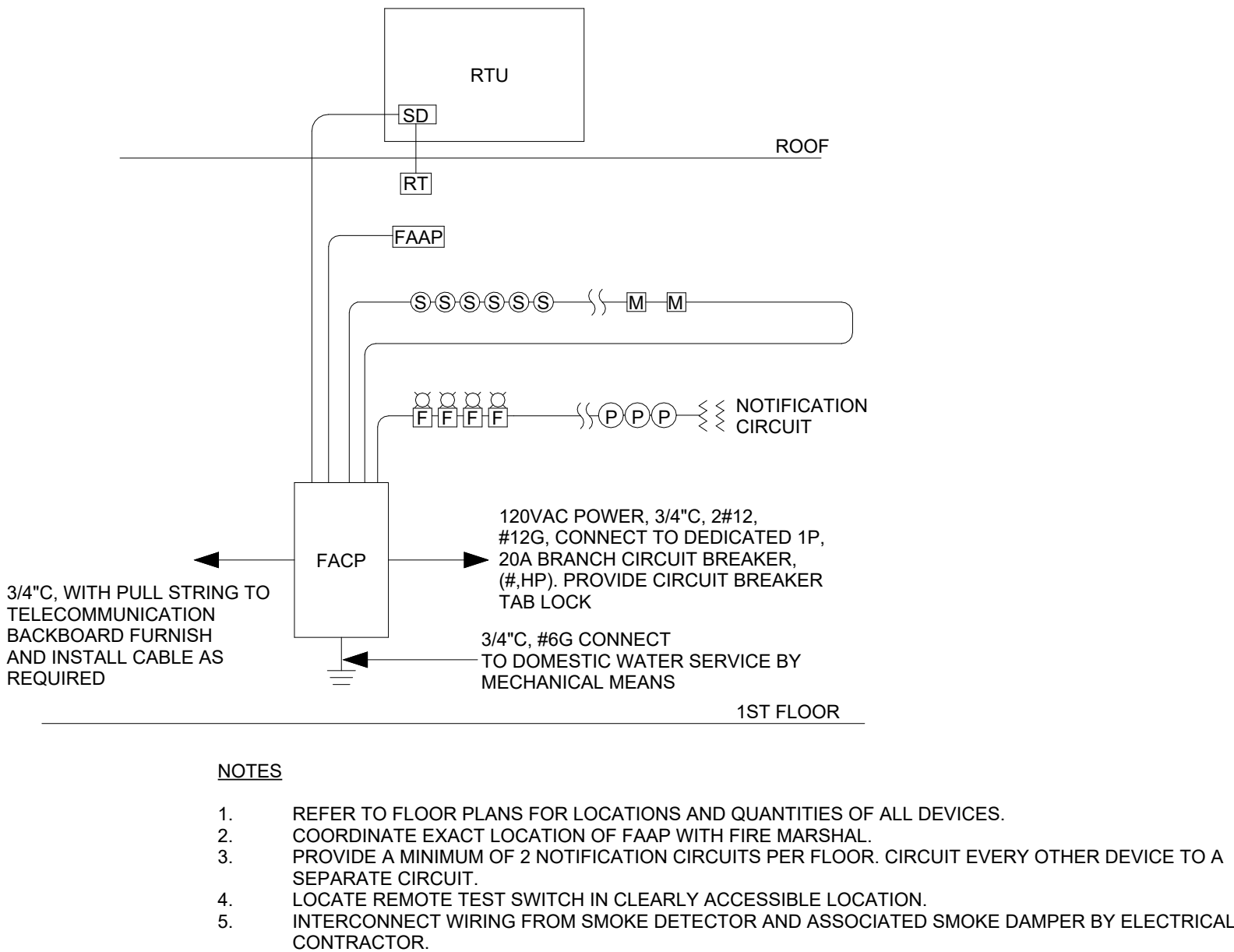
A. INTELLIGENT DEVICES-GENERAL

EACH REMOTE DEVICE SHALL HAVE A MICROPROCESSOR WITH NON-VOLATILE MEMORY TO SUPPORT ITS FUNCTIONALITY AND SERVICEABILITY. EACH DEVICE SHALL BE CAPABLE OF ELECTRONIC ADDRESSING, EITHER AUTOMATICALLY OR APPLICATION PROGRAMMED ASSIGNED, TO SUPPORT PHYSICAL/ELECTRICAL MAPPING AND SUPERVISION BY LOCATION. SETTING A DEVICE'S ADDRESS BY PHYSICAL MEANS SHALL NOT BE NECESSARY.

- B. INTELLIGENT DETECTORS-GENERAL
- THE SYSTEM INTELLIGENT DETECTORS SHALL BE CAPABLE OF FULL DIGITAL COMMUNICATIONS USING BOTH BROADCAST AND POLLING PROTOCOL. EACH DETECTOR SHALL HAVE AN INTEGRAL MICROPROCESSOR CAPABLE OF MAKING ALARM DECISIONS BASED ON FIRE PARAMETER INFORMATION STORED IN THE DETECTOR HEAD. EACH SMOKE DETECTOR SHALL BE CAPABLE OF TRANSMITTING PRE-ALARM AND ALARM SIGNALS IN ADDITION TO THE NORMAL, TROUBLE AND NEED CLEANING INFORMATION. EACH DETECTOR MICROPROCESSOR SHALL CONTINUALLY MONITOR THE ENVIRONMENTAL IMPACT OF TEMPERATURE, HUMIDITY, OTHER CONTAMINATES AS WELL AS DETECTOR AGING.
- C. MISCELLANEOUS DEVICES: FIXED TEMPERATURE/RATE OF RISE HEAT DETECTOR, PHOTOELECTRIC SMOKE DETECTOR, STANDARD DETECTOR MOUNTING BASES, DUCT DETECTOR HOUSING, MONITOR MODULE, WATER FLOW/TAMPER MODULE, MANUAL PULL STATION.
- D. NOTIFICATION APPLIANCES-GENERAL
- ALL APPLIANCES SHALL BE UL LISTED FOR FIRE PROTECTIVE SERVICE.
- ALL STROBE APPLIANCES OR COMBINATION APPLIANCES WITH STROBES SHALL BE CAPABLE OF PROVIDING THE "EQUIVALENT FACILITATION" WHICH IS ALLOWED UNDER THE AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES (ADA(AG)), AND SHALL BE UL 1971, AND ULC S528 LISTED.
- E. STROBES: STROBES SHALL PROVIDE SYNCHRONIZED FLASH OUTPUTS. STROBE OUTPUT SHALL BE FIELD SELECTABLE AS INDICATED ON THE DRAWINGS IN ONE OF THE FOLLOWING INTENSITY LEVELS: 15CD, 30CD, 75CD, 110CD OR 177CD.
- F. SPEAKERS AND SPEAKER STROBES: SPEAKERS SHALL PROVIDE POWER TAPS AT 1/4W, 1/2W, 1W, AND 2W. SPEAKERS SHALL PROVIDE UL CONFIRMED 90 DBA SOUND OUTPUT AT 2W. SPEAKERS WITH A STROBE, THE OUTPUT SHALL BE FIELD SELECTABLE AS INDICATED ON THE DRAWINGS IN ONE OF THE FOLLOWING INTENSITY LEVELS: 15CD, 30CD, 75CD, 110CD OR 177CD.
- G. MISCELLANEOUS DEVICES: ELECTROMAGNETIC DOOR HOLDERS.
- PART III - EXECUTION
- 3.01 INSTALLATION
- A. THE ENTIRE SYSTEM SHALL BE INSTALLED IN A WORKMANLIKE MANNER, IN ACCORDANCE WITH APPROVED MANUFACTURERS WIRING DIAGRAM. THE CONTRACTOR SHALL FURNISH ALL CONDUIT, WIRING, OUTLET BOXES, JUNCTION BOXES, CABINETS AND SIMILAR DEVICES NECESSARY FOR THE COMPLETE INSTALLATION. ALL WIRING SHALL BE OF THE TYPE RECOMMENDED BY THE MANUFACTURER, APPROVED BY THE LOCAL FIRE DEPARTMENT AND SPECIFIED WITH IN.
- B. END OF LINE RESISTORS SHALL BE FURNISHED AS REQUIRED FOR MOUNTING AS DIRECTED BY THE MANUFACTURER. DEVICES CONTAINING END-OF-LINE RESISTORS SHALL BE APPROPRIATELY LABELED. DEVICES SHOULD BE LABELED SO REMOVAL OF THE DEVICE IS NOT REQUIRED TO IDENTIFY THE EOL DEVICE.
- C. ALL MANUAL PULL STATIONS SHALL BE MOUNTED 48 INCHES ABOVE THE FINISHED FLOOR, AS MEASURED TO THE HANDLE.
- D. ALL AUDIO/VISUAL DEVICES SHALL BE MOUNTED NO LESS THAN 6 INCHES FROM THE CEILING. ALL AUDIO/VISUAL DEVICES SHALL HAVE LEXAN COVERS IN ALL AREAS.
- E. NO AREA SMOKE DETECTORS SHALL BE MOUNTED WITHIN 36 INCHES OF ANY HVAC SUPPLY, RETURN AIR REGISTER OR LIGHTING FIXTURE.
- F. NO AREA SMOKE OR HEAT DETECTOR SHALL BE MOUNTED WITHIN 12 INCHES OF ANY WALL.
- G. ALL MECHANICAL ROOMS, BOILER ROOMS, GYMNASIUMS, WIRING CLOSETS, CUSTODIAN ROOMS, ATTIC SPACES, ETC. OR AREAS WITH NO HUNG CEILINGS SHALL BE PIPED WITH 3/4" CONDUIT. ALL DEVICE PLENUM RATED WIRING SHALL BE MECHANICALLY PROTECTED WITH CONDUIT.
- H. ALL JUNCTION BOX COVERS SHALL BE PAINTED FEDERAL SAFETY RED AND LABELED FIRE ALARM SYSTEM ONLY IN BLACK LETTERS.
- I. FIRE ALARM SYSTEM WIRING SHALL NOT CO-MINGLE WITH ANY OTHER SYSTEM WIRING IN THE FACILITY.
- J. AUXILIARY RELAYS SHALL BE APPROPRIATELY LABELED TO INDICATE "FIRE ALARM SYSTEM" AND THEIR SPECIFIC FUNCTION (I.E. FAN S-1 SHUTDOWN).
- K. ALL FIRE ALARM WIRING SHALL BE CONTINUOUS AND UNSPLICED. TERMINATIONS SHALL ONLY OCCUR AT FIRE ALARM DEVICES OR CONTROL PANEL ENCLOSURES UNDER TERMINAL SCREWS. ALL OTHER SPLICING METHODS ARE SPECIFICALLY DISALLOWED. (I.E. PLASTIC WIRE NUTS)
- L. ALL FIRE ALARM WIRING SHALL BE INSTALLED USING A DEDICATED SYSTEM OF SUPPORTS (I.E. BRIDLE RINGS). FIRE ALARM WIRING SHALL NOT BE BUNDLED OR STRAPPED TO EXISTING CONDUIT, PIPE OR WIRE IN THE FACILITY.
- M. TEMPORAL HORN STROBES, G1RF-HOV SERIES
- THE HORN/STROBE SHALL PROVIDE AN AUDIBLE OUTPUT MAXIMUM DECIBELS of 110 dBA AT 10 FT. STROBES SHALL PROVIDE SYNCHRONIZED FLASH OUTPUTS. THE STROBE OUTPUT SHALL BE 75CD OR AS INDICATED ON THE DRAWINGS. THE HORN SHALL HAVE A SELECTABLE STEADY OR SYNCHRONIZED TEMPORAL OUTPUT.
- N. REMOTE RELAYS, MULTI-VOLTAGE CONTROL RELAYS, MR-100 SERIES
- PROVIDE REMOTE CONTROL RELAYS CONNECTED TO SUPERVISED ANCILLARY CIRCUITS FOR CONTROL OF FANS, DAMPERS, DOOR RELEASES, ETC. RELAY CONTACT RATINGS SHALL BE SPDT AND RATED FOR 10 AMPERES AT 115 VAC. A SINGLE RELAY MAY BE ENERGIZED FROM A VOLTAGE SOURCE OF 24 VDC, 24 VAC, 115 VAC, OR 230 VAC. A RED LED SHALL INDICATE THE RELAY IS ENERGIZED. A METAL ENCLOSURE SHALL BE PROVIDED.
- O. ELECTROMAGNETIC DOOR HOLDERS-GENERAL
- ELECTROMAGNETIC DOOR HOLDERS SUBMITTED FOR USE MUST HAVE WRITTEN PROOF OF THEIR COMPATIBILITY FOR THE PURPOSES INTENDED. SUCH PROOF SHALL BE IN THE FORM OF DOCUMENTATION FROM ALL MANUFACTURERS THAT CLEARLY STATES THAT THEIR EQUIPMENT (AS SUBMITTED) IS 100% COMPATIBLE WITH EACH OTHER FOR THE PURPOSES INTENDED.

FIRE ALARM LEGEND

SYMBOL	DESCRIPTION
[FACP]	FIRE ALARM CONTROL PANEL
[FAAP]	FIRE ALARM REMOTE ANNUNCIATOR PANEL
[S ^B H ^B CO ^B B]	DWELLING UNIT FIRE ALARM SMOKE DETECTOR, HEAT DETECTOR, CARBON MONOXIDE DETECTOR WITH SOUNDER BASE (120V w/9V BATTERY BACK-UP)
[S]	FIRE ALARM SMOKE DETECTOR
[CO]	CARBON MONOXIDE DETECTOR
[S/C]	COMBINATION SMOKE/CARBON MONOXIDE DETECTOR
[H]	FIRE ALARM THERMAL DETECTOR
[S EL]	FIRE ALARM DUCT SMOKE DETECTOR ELEVATOR RECALL
[H EL]	FIRE ALARM THERMAL DETECTOR, ELEVATOR SHUNT TRIP
[SD]	FIRE ALARM DUCT SMOKE DETECTOR WITH REMOTE TEST SWITCH
[RT]	FIRE ALARM REMOTE TEST SWITCH
[SD]	FIRE ALARM SMOKE DAMPER
[M]	FIRE ALARM MANUAL PULL STATION
[M]	FIRE ALARM MAGNETIC DOOR HOLDER
[F] []	FIRE ALARM HORN/STROBE UNIT
[P]	FIRE ALARM STROBE ONLY UNIT
[] []	FIRE ALARM HORN ONLY UNIT
[TS]	SPRINKLER TAMPER SWITCH
[PS]	SPRINKLER PRESSURE SWITCH
[FS]	SPRINKLER WATER FLOW SWITCH
[EXP]	EXPANDER PANEL



① TYPICAL FIRE ALARM RISER DIAGRAM
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Designed By PA

Checked By PA

Issued for:

PERMIT

Sheet Title:

FIRE ALARM
SPECIFICATIONS

Sheet Number:

E-601

PART 1 - GENERAL PROVISIONS FOR ELECTRICAL WORK

REFERENCES

THIS SECTION COVERS THE GENERAL REQUIREMENTS FOR ELECTRICAL WORK; EXAMINE ALL CONTRACT DRAWINGS AND ALL OTHER SECTIONS OF THE SPECIFICATIONS FOR ADDITIONAL WORK RELATED TO THE WORK OF THIS DIVISION.

DEFINITIONS

'PROVIDE' - TO FURNISH, INSTALL AND CONNECT UP COMPLETE AND READY FOR SAFE AND REGULAR OPERATION OF PARTICULAR WORK REFERRED TO UNLESS, SPECIFICALLY OTHERWISE NOTED.

'INSTALL' - TO ERECT, MOUNT AND CONNECT COMPLETE WITH RELATED ACCESSORIES.

'WORK' - LABOR, MATERIALS, EQUIPMENT, APPARATUS, CONTROLS, ACCESSORIES AND OTHER ITEMS REQUIRED FOR PROPER AND COMPLETE INSTALLATION.

'WIRING' - RACEWAY, FITTINGS, WIRE, BOXES, MOUNTING HARDWARE AND RELATED ITEMS.

'CONCEALED' - EMBEDDED IN MASONRY OR OTHER CONSTRUCTION CAVITY, INSTALLED IN FURRED SPACES, WITHIN DOUBLE PARTITIONS OR HUNG CEILINGS.

'SIMILAR OR 'EQUAL' - EQUAL MATERIALS, WEIGHT, SIZE, DESIGN AND EFFICIENCY OF SPECIFIED PRODUCT.

'CONTRACTOR' - THE ELECTRICAL CONTRACTOR.

'NOTED' - AS INDICATED ON THE DRAWINGS AND/OR SPECIFICATIONS.

SCOPE

THIS WORK SHALL CONSIST OF THE FURNISHINGS OF ALL LABOR, MATERIALS AND SERVICES REQUIRED COMPLETE, READY FOR CORRECT OPERATION FOR ALL ELECTRICAL WORK CALL FOR BY THE ACCOMPANYING DRAWINGS AND SPECIFICATIONS. ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE, STATE AND LOCAL CODES.

THE DATA INDICATED IN THESE DRAWINGS AND SPECIFICATIONS ARE AS EXACT AS COULD BE SECURED. BUT THEIR ABSOLUTE ACCURACY IS NOT GUARANTEED. DO NOT SCALE DRAWINGS. EXACT LOCATIONS, DISTANCES, LEVELS AND OTHER CONDITIONS WILL BE GOVERNED BY THE BUILDING. USE THE DRAWINGS AND SPECIFICATIONS FOR GUIDANCE AND SECURE THE ENGINEER'S APPROVAL OF CHANGES IN LOCATIONS. CIRCUITS, WHERE SHOWN ON AN ELECTRICAL DRAWINGS, ARE SO INDICATED PRIMARILY FOR THE PURPOSE OF INDICATING THE GENERAL CIRCUIT PLAN AND DO NOT NECESSARILY INDICATE THE EXACT LOCATION OF ROUTING OF THE RACEWAYS UNLESS SPECIFICALLY INDICATED. CIRCUITS SHALL BE RUN IN SUIT CONDITIONS CONSIDERING STRUCTURAL FEATURES, OTHER TRADES, CONSTRUCTION METHODS AND GOOD INSTALLATION PRACTICE.

BEFORE SUBMITTING A BID, THE CONTRACTOR SHALL VISIT THE SITE AND BECOME THOROUGHLY FAMILIAR WITH ALL EXISTING CONDITIONS UNDER WHICH THE WORK AND WORK OF OTHER TRADES WILL BE INSTALLED. THIS CONTRACT INCLUDES ALL NECESSARY OFFSETS, TRANSITIONS, MODIFICATIONS AND RELOCATION REQUIRED TO INSTALL ALL NEW EQUIPMENT IN NEW OR EXISTING SPACES. CONTRACTOR SHALL INCLUDE ANY MODIFICATIONS REQUIRED IN EXISTING ELECTRICAL EQUIPMENT FOR INSTALLATION OF NEW ELECTRICAL EQUIPMENT AND NEW EQUIPMENT OF OTHER TRADES. (LIGHTING FIXTURES, DEVICES, CONDUIT WIRING, ETC.) ALL NEW AND EXISTING EQUIPMENT AND SYSTEMS SHALL BE FULLY OPERATIONAL UNDER THIS CONTRACT BEFORE THE PROJECT IS CONSIDERED COMPLETE. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY ASSUMPTIONS THAT ARE MADE, ANY OMISSIONS OR ERRORS MADE AS A RESULT OF FAILURE TO VISIT THE SITE AND BECOME THOROUGHLY FAMILIAR WITH THE EXISTING CONDITIONS AND THE CONTRACT DOCUMENTS OF ALL TRADES.

CODES, REGULATIONS AND STANDARDS

ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE FOLLOWING APPROVED CODES:

STATE DEMOLITION CODE
STATE BUILDING CODE
STATE FIRE SAFETY CODE
LOCAL BUILDING CODE
IBC - INTERNATIONAL BUILDING CODE
NFPA - NATIONAL FIRE PROTECTION CODE
ANSI - AMERICAN NATIONAL STANDARDS INSTITUTE
ASTM - AMERICAN SOCIETY FOR TESTING AND MATERIALS
OSHA - OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
U.L. - UNDERWRITERS LABORATORIES
NFPA 101 - LIFE SAFETY CODE
NFPA 70 - NATIONAL ELECTRICAL CODE
NFPA 72 - NATIONAL FIRE ALARM CODE
EPA - ENVIRONMENTAL PROTECTION AGENCY
IEEE - INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS
NEMA - NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
IECC - INTERNATIONAL ENERGY CONSERVATION CODE

PERMITS, FEES AND INSPECTIONS

THE CONTRACTOR SHALL GIVE ALL NECESSARY NOTICES, OBTAIN ALL PERMITS, PAY FOR ALL GOVERNMENT, STATE SALES TAXES AND APPLICABLE FEES. THE CONTRACTOR SHALL FILE ALL DRAWINGS, COMPLETE ALL DOCUMENTS AND OBTAIN ALL NECESSARY APPROVALS FROM THE PROPER AUTHORITY OR AGENCY HAVING JURISDICTION. OBTAIN ALL REQUIRED CERTIFICATES OF INSPECTION COVERING WORK. THE CONTRACTOR SHALL SEE THAT ALL REQUIRED INSPECTIONS AND TESTS ARE MADE AND SHALL COOPERATE TO MAKE THESE TESTS AS THOROUGH AND AS READILY MADE AS POSSIBLE.

MATERIALS AND WORKMANSHIP

ALL MATERIALS AND APPARATUS REQUIRED FOR THE WORK, EXCEPT AS OTHERWISE SPECIFIED, SHALL BE NEW AND OF FIRST-CLASS QUALITY. IT SHALL BE FURNISHED, DELIVERED, ERECTED, CONNECTED, FINISHED IN EVERY DETAIL AND SO SELECTED AND ARRANGED AS TO FIT PROPERLY INTO THE BUILDING SPACES. WHERE NO SPECIFIC KIND OR QUALITY MATERIAL IS GIVEN, A FIRST-CLASS STANDARD ARTICLE AS ACCEPTED BY THE ENGINEER SHALL BE FURNISHED.

ALL EQUIPMENT AND MATERIALS SHALL BE SPECIFICATION GRADE AND BEAR THE UNDERWRITER'S LABEL. NO SUBSTITUTE OR ALTERNATE EQUIPMENT, MATERIAL, ETC. WILL BE CONSIDERED FOR THIS PROJECT.

ALL WORK SHALL BE OF A QUALITY CONSISTENT WITH GOOD TRADE PRACTICE AND SHALL BE INSTALLED IN A NEAT, WORKMANLIKE MANNER. THE ENGINEER/OWNER RESERVES THE RIGHT TO REJECT ANY WORK WHICH, IN HIS OPINION, HAS BEEN INSTALLED IN A SUBSTANDARD, DANGEROUS OR IN A UNSERVICEABLE MANNER. THE CONTRACTOR SHALL REPLACE REJECTED WORK IN A SATISFACTORY MANNER AT NO EXTRA COST TO THE OWNER.

GUARANTEES

ALL WORKMANSHIP AND MATERIALS SHALL BE FULLY GUARANTEED FOR A PERIOD OF ONE YEAR AFTER ACCEPTANCE OF THE ENTIRE INSTALLATION COVERED BY THIS CONTRACT. SHOULD ANY DEFECTS OCCUR DURING THE GUARANTEED PERIOD, THE CONTRACTOR SHALL REPAIR AND/OR REPLACE ALL DEFECTIVE EQUIPMENT, MATERIAL AND/OR WORK AT NO EXTRA CHARGE TO THE OWNER.

RECORD DRAWINGS

MAINTAIN, AT THE JOB SITE, A SET OF ELECTRICAL DRAWINGS INDICATING ALL CHANGES IN LOCATION AND CIRCUITING OF THE EQUIPMENT, PANELS, DEVICES, ETC. FROM THE ORIGINAL LAYOUT. CLEARLY MARK IN RED ALL CHANGES ON THE DRAWINGS. AT THE COMPLETION OF THE PROJECT THE CONTRACTOR SHALL TURN OVER THE RECORD DRAWINGS TO THE ENGINEER/OWNER.

COORDINATION

ALL WORK SHALL BE COORDINATED AND CARRIED OUT IN CONJUNCTION WITH ALL TRADES AND FULL COORDINATION DRAWINGS SHALL BE CREATED IN ORDER THAT ALL WORK MAY PROCEED WITH A MINIMUM OF DELAY AND INTERFERENCE.

SHOP DRAWINGS

SUBMIT ELECTRONIC PDF FORMAT OR EIGHT (8) COPIES FOR REVIEW, DETAILED SHOP DRAWINGS OF ALL EQUIPMENT AND MATERIAL SPECIFIED. THE CONTRACTOR SHALL REVIEW ALL SHOP DRAWINGS PRIOR TO SUBMISSION TO THE ENGINEER FOR REVIEW. NO MATERIAL OR EQUIPMENT MAY BE DELIVERED TO THE JOB SITE OR INSTALLED UNTIL CONTRACTOR HAS IN THEIR POSSESSION, APPROVED SHOP DRAWINGS FOR THE PARTICULAR MATERIAL OR EQUIPMENT. SHOP DRAWINGS SHALL BE SPECIFIC WITH ITEMS SUBMITTED FOR APPROVAL CLEARLY IDENTIFIED.

THE FOLLOWING IS A LIST OF ELECTRICAL ITEMS THAT MUST BE SUBMITTED FOR REVIEW:

- a. SERVICE ENTRANCE CABINET
- b. PANELBOARDS
- c. LOAD CENTERS
- d. METER CENTERS
- e. SAFETY/DISCONNECT SWITCHES
- f. CIRCUIT BREAKERS
- g. LIGHTING
- h. FUSES
- i. CONDUIT, WIRE AND CABLE
- j. FIRE ALARM EQUIPMENT
- k. DEVICES (RECEPTACLES, TOGGLE SWITCHES, ETC.)

OPERATING INSTRUCTIONS

THE CONTRACTOR SHALL FURNISH TO THE ENGINEER, FOUR (4) COMPLETE BOUND SETS OF TYPEWRITTEN OR BLUEPRINTED INSTRUCTIONS FOR OPERATING AND MAINTAINING ALL SYSTEMS AND EQUIPMENT INCLUDED IN THIS DIVISION. MANUFACTURER'S ADVERTISING LITERATURE OR CATALOGS WILL NOT BE ACCEPTABLE FOR OPERATING AND MAINTENANCE INSTRUCTIONS.

THE CONTRACTOR, IN THE ABOVE-MENTIONED INSTRUCTIONS, SHALL INCLUDE THE MAINTENANCE SCHEDULE FOR THE PRINCIPAL ITEMS OF EQUIPMENT FURNISHED UNDER THIS DIVISION.

AN AUTHORIZED MANUFACTURER'S REPRESENTATIVE SHALL ATTEST IN WRITING THAT HIS EQUIPMENT HAS BEEN PROPERLY INSTALLED PRIOR TO STARTUP. THESE LETTERS WILL BE BOUND INTO OPERATING AND MAINTENANCE BOOKS.

EQUIPMENT PROTECTION

PROPERLY AND COMPLETELY PROTECT AGAINST ALL DAMAGE, ALL APPARATUS, EQUIPMENT, ETC., INCLUDED IN THIS CONTRACT. THE CONTRACTOR WILL BE HELD RESPONSIBLE FOR ANY DAMAGE TO FURNISHED APPARATUS, EQUIPMENT, ETC., UNTIL FINAL ACCEPTANCE.

PROPERTY PROTECTION

THE CONTRACTOR SHALL TAKE WHATEVER MEANS NECESSARY AND/OR REQUIRED TO PROTECT OWNER'S PROPERTY WITHIN THE WORKING AREAS FROM DUST, DEBRIS AND OTHER MATTER GENERATED BY THE WORK. NO WORK SHALL COMMENCE IN AREAS WHERE PROTECTION IS REQUIRED UNTIL APPROVAL HAS BEEN GIVEN TO THE CONTRACTOR BY THE OWNER.

MANUFACTURER'S INSTRUCTION

INSTALL ALL EQUIPMENT IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS OR REQUIREMENTS FOR PROPER OPERATION AND MAINTENANCE.

EQUIPMENT PAINTING AND CLEANING

THOROUGHLY CLEAN ALL ELECTRICAL EQUIPMENT DEVICES AND ENCLOSURES UPON COMPLETION OF ALL WORK. REPAINT ANY EQUIPMENT WHOSE FINISH IS DAMAGED OR RUSTED. MATCH MANUFACTURER'S ORIGINAL FINISH.

DEMOLITION/REMOVAL AND RECONNECTION

BEFORE SUBMITTING A BID, THE CONTRACTOR SHALL VISIT THE SITE AND BECOME THOROUGHLY FAMILIAR WITH ALL EXISTING CONDITIONS UNDER WHICH HIS WORK WILL BE INSTALLED.

ALL EXISTING ACTIVE CIRCUITS WHICH FEED EQUIPMENT OR DEVICES THAT ARE TO REMAIN, SHALL BE MAINTAINED IN SERVICE AND SHALL BE PERMANENTLY REFD.

ALL ITEMS BEING REMOVED SHALL REMAIN THE PROPERTY OF THE CONTRACTOR AND REMOVED FROM THE SITE UNLESS OTHERWISE INDICATED. EQUIPMENT AND DEVICES THE OWNER DOES NOT WISH TO RETAIN SHALL BECOME THE PROPERTY OF THIS CONTRACTOR AND SHALL BE REMOVED FROM THE SITE.

ALL MATERIAL CHOSEN TO BE RETAINED BY THE OWNER SHALL BE DELIVERED BY THE CONTRACTOR TO SUCH POINT AS DESIGNATED BY THE OWNER.

MATERIAL TO BE REUSED SHALL BE CAREFULLY REMOVED AND STORED AND SHALL BE REINSTALLED IN AS-FOUND CONDITION EXCEPT AS OTHERWISE INDICATED ON THE PLANS. DAMAGE OR LOSS OF MATERIAL TO BE REUSED SHALL BE THE CONTRACTOR'S RESPONSIBILITY AND SHALL BE REPAIRED OR REPLACED WITH THE EQUIVALENT MATERIAL ACCEPTABLE BY THE OWNER.

DISCONNECT AND REMOVE ALL EXISTING ELECTRICAL WORK IN CONTRACT AREA AS INDICATED ON DRAWINGS.

ALL WIRING AND CABLING SHALL BE REMOVED BACK TO ORIGINATION PANEL, UNLESS OTHERWISE INDICATED.

CONTRACTOR SHALL KEEP PREMISES FREE FROM ACCUMULATION OF WASTE MATERIAL AND RUBBISH, AND AT COMPLETION OF WORK DAY, SHALL REMOVE ALL RUBBISH AND IMPLEMENTS TO A DESIGNATED LOCATION. IF AVAILABLE, LEAVING WORK AREAS BROOM CLEAN. UNUSED OUTLET BOXES AND PLASTER RINGS SHALL BE PROVIDED WITH BLANK COVER PLATES AND MATCH DEVICE PLATES WITHIN THE ROOM.

PENETRATION SEALANT

ALL PENETRATIONS SHALL BE SEALED WITH 3M INTUMESCENT FIRE BARRIER PENETRATION SEALANT, APPLIED PER MANUFACTURER'S AND U.L. GUIDELINES.

CUTTING, PATCHING, REPAIRING AND PAINTING

THE GENERAL CONTRACTOR SHALL PERFORM ALL CUTTING, PATCHING, REPAIRING AND PAINTING FOR ALL ELECTRICAL ITEMS AND EQUIPMENT CALLED FOR UNDER THIS CONTRACT.

FIRE STOPS AND SEALS

PENETRATIONS THROUGH FIRE-RATED WALLS, CEILING OR FLOORS IN WHICH CABLES OR CONDUITS PASS SHALL BE FILLED SOLIDLY BY U.L. APPROVED FIRE-STOP MATERIALS, CLASSIFIED FOR AN HOUR RATING EQUAL TO THE FIRE RATING OF THE WALL, CEILING OR FLOOR. PROVIDE TO 3M BRAND FIRE BARRIER CP25WB CAULK OR APPROVED EQUIVALENT.

SEALING BUSHINGS SHALL BE USED ON CONDUIT AND CABLE ENDS TO EFFECTIVELY PREVENT THE INTRUSION OF WATER, A DAMP OR CORROSIVE ATMOSPHERE, DRAFT OR DUST.

ACCESS PANELS

THE CONTRACTOR SHALL FURNISH AND INSTALL ACCESS PANELS AND DOORS AS REQUIRED FOR ACCESS TO INACCESSIBLE PULLBOXES, JUNCTION BOXES AND OTHER SPECIALTIES.

THE CONTRACTOR SHALL COORDINATE THE LOCATIONS OF ACCESS PANELS AND DOORS WITH THE GENERAL CONTRACTOR AND OTHER TRADES. FINAL LOCATIONS SHALL BE SUBJECT TO THE APPROVAL OF THE ARCHITECT.

INTERRUPTION OF EXISTING SERVICES

PRIOR TO PERFORMING WORK REQUIRING INTERRUPTION OF EXISTING SERVICES, THE CONTRACTOR SHALL SECURE FROM THE OWNER, APPROVAL OF THE PROPOSED OPERATION. (48 HOURS IN ADVANCE) WORK SHALL BE ARRANGED FOR CONTINUOUS PERFORMANCE. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY LABOR, INCLUDING OVERTIME, OF REQUIRED, TO ASSURE THAT THE EXISTING OPERATING SERVICES WILL BE SHUT DOWN ONLY DURING THE TIME ACTUALLY REQUIRED TO MAKE NECESSARY CONNECTIONS.

TEMPORARY LIGHT AND POWER

FURNISH AND INSTALL TEMPORARY ELECTRICAL SERVICE OF SUFFICIENT SIZE FOR POWER AND LIGHTING USE BY ALL TRADE CONTRACTORS DURING THE COURSE OF CONSTRUCTION. ALL TEMPORARY WORK SHALL BE DONE IN COMPLIANCE WITH ALL APPLICABLE ARTICLES IN THE NATIONAL ELECTRICAL CODE, O.S.H.A. AND WITH ALL REQUIREMENTS OF ANY AUTHORITY HAVING JURISDICTION OVER THE WORK. PROVIDE TEMPORARY POWER CONNECTION TO A CONSTRUCTION TRAILER. THE LOCATION OF THE TRAILER IS TO BE DETERMINED ON SITE. PROVIDE FEEDER TO TRAILER OF SUFFICIENT SIZE TO POWER HEATING, AIR CONDITIONING, GENERAL POWER AND LIGHTING.

PART 2 - PRODUCTS

DESCRIPTION

ALL MATERIALS AND EQUIPMENT PROVIDED UNDER THIS SECTION SHALL BE NEW, FIRST GRADE, BEST OF THEIR RESPECTIVE KINDS AND IN NO WAY SHALL THEY BE LESS THAN THE QUALITY AND INTENT SET FOURTH UNDER THIS SECTION. THEY SHALL MEET THE REQUIREMENTS OF ALL STANDARDS SET UP TO GOVERN THE MANUFACTURER OF ELECTRICAL MATERIALS AND COMPLY WITH ALL APPLICABLE CODES AND STANDARDS.

WIRE

CONDUCTORS SHALL BE U.L. LISTED, 600 VOLTS, 90 DEG. C., SINGLE CONDUCTOR TYPE THWN/THHN, 98% CONDUCTIVITY, ANNEALED UNCOATED COPPER WITH PVC INSULATION COVERED WITH NYLON SHEATH JACKET. TESTED IN ACCORDANCE WITH THE REQUIREMENTS OF UNDERWRITERS LABORATORIES STANDARD 83. WIRE SHALL BE IDENTIFIED BY SURFACE MARKING INDICATING MANUFACTURER'S IDENTIFICATION CONDUCTOR SIZE AND METAL. VOLTAGE RATING, U.L. SYMBOL AND TYPE DESIGNATION. CONDUCTORS SHALL BE STRANDED. MINIMUM SIZE SHALL BE #12 AWG UNLESS OTHERWISE INDICATED. MANUFACTURED BY ROME CABLE, TRIANGLE WIRE & CABLE, GENERAL CABLE OR ESSEX WIRE & CABLE.

RIGID GALVANIZED STEEL CONDUIT (RGS)

RIGID STEEL CONDUIT SHALL BE FULL WEIGHT, HEAVY WALL STEEL PIPE WITH GALVANIZED PROTECTIVE COATING. MANUFACTURED BY TRIANGLE WIRE AND CABLE, ALLIED TUBE AND CONDUIT, REPUBLIC OR STEELDUCT. CONDUIT FITTINGS SHALL BE MALLEABLE IRON, CADMIUM PLATED WITH FULL THREADED HUBS.

RIGID POLYVINYL CHLORIDE CONDUIT (PVC)

RIGID POLYVINYL CHLORIDE CONDUIT SHALL BE TYPE DB, SCHEDULE 40, SUNLIGHT RESISTANT, RATED OR USE WITH 90 DEGREES C. CONDUCTORS, U.L. RATED. ALL PVC CONDUIT AND FITTINGS SHALL BE SOLVENT WELDED. MANUFACTURED BY CARLON, ELECTRI-FLEX OR PLASTILINE.

ELECTRIC METALLIC TUBING (EMT)

ELECTRICAL METALLIC TUBING SHALL BE GALVANIZED THIN WALL STEEL CONDUIT. MANUFACTURED BY TRIANGLE WIRE AND CABLE, ALLIED TUBE AND CONDUIT, REPUBLIC OR STEELDUCT. THE CONNECTORS AND COUPLINGS SHALL BE HEAVY DUTY, STEEL-ZINC PLATED, SET SCREW TYPE.

FLEXIBLE METALLIC CONDUIT (FMC)

FLEXIBLE METALLIC CONDUIT SHALL BE OF HEAVY GALVANIZED SHEET METAL STRIP IN INTERLOCKED CONSTRUCTION. MANUFACTURED BY TRIANGLE WIRE AND CABLE, AMERICAN FLEXIBLE CONDUIT OR ELECTRIC-FLEX. THE CONNECTORS SHALL BE SQUEEZE TYPE MALLEABLE IRON, CADMIUM PLATED.

LIQUID-TIGHT FLEXIBLE METAL CONDUIT (LFMC)

LIQUID-TIGHT FLEXIBLE CONDUIT SHALL BE CONSTRUCTED OF HEAVY GALVANIZED SHEET METAL STRIP, SPIRALLY-WOUND INTERLOCK CONSTRUCTION WITH AN EXTRUDED POLYVINYL GRAY JACKET. CONDUIT SHALL BE U.L. LABELED AND CONFORMED TO THE APPLICATION AND ENVIRONMENT IN WHICH IT WILL BE USED. ALL CONNECTIONS, COUPLINGS AND FITTINGS SHALL BE OF HIGH QUALITY STEEL-ZINC RATED TYPE SPECIFICALLY DESIGNED FOR THIS PURPOSE. MANUFACTURED BY O/Z GEDNEY OR ELECTRI-FLEX.

SERVICE ENTRANCE CONDUCTORS (FOR APARTMENT UNITS ONLY)

TYPE SE STYLE THREE CONDUCTOR INSULATED, ROUND TYPE CABLE FOR ABOVE GROUND AND INDOOR USE. U.L. RATED, 600V, 3 CONDUCTOR WITH GROUND (ALUMINUM CONDUCTORS), BLACK CROSS-LINKED POLYETHYLENE (XLPE) INSULATION WITH A GRAY POLYVINYL CHLORIDE (PVC) JACKET MANUFACTURED BY SORAL OR ESSEX.

NON-METALIC SHEATHED CABLE (NM-B)

CABLE SHALL BE U.L. LISTED, 600V, 90 DEG. C., ANNEALED SOFT COPPER CONDUCTORS. CONDUCTOR INSULATION IS 90 DEG. C., RATED POLYVINYL CHLORIDE (PVC) WITH NYLON JACKET. CABLE JACKET IS COLOR COATED FOR QUICK IDENTIFICATION. WHITE-14 AWG, YELLOW-12 AWG, ORANGE-10 AWG, AND BLACK-8 AWG AND 6 AWG. MANUFACTURED BY SOUTHWIRE OR ESSEX.

METAL CLAD CABLE (MC)

METAL CLAD CABLE SHALL BE INTERLOCKING GALVANIZED STEEL ARMOR CONSTRUCTION. COLOR CODED THERMOPLASTIC/NYLON INSULATION THHN, 90 DEGREE C., 600 VOLTS. COPPER CONDUCTORS AND INTERNAL INSULATED EQUIPMENT COPPER GROUND CONDUCTOR. MARKER TAPE AND CABLE TAPE OVER MINIMUM SIZE #12 AWG UNLESS OTHERWISE INDICATED. MANUFACTURED BY AMERICAN FLEXIBLE CONDUIT, TRIANGLE WIRE AND CABLE, GENERAL CABLE OR STANDARD CABLE.

FITTINGS

CONDUIT BODIES FOR RIGID GALVANIZED STEEL CONDUIT (RGS) SHALL BE MALLEABLE IRON-ZINC PLATED WITH TAPERED HUBS AND GASKETED ALUMINUM COVER.

CONDUIT BODIES FOR ELECTRICAL METALLIC TUBING (EMT) SHALL BE CAST ALUMINUM-ALUMINUM ENAMEL FINISH WITH SET SCREW HUBS AND ALUMINUM COVER.

INSULATION BUSHINGS SHALL BE HIGH IMPACT THERMOPLASTIC PHENOLIC WITH 150 DEG. C. UL TEMPERATURE RATING.

INSULATED GROUNDING BUSHINGS SHALL BE MALLEABLE IRON ZINC PLATED WITH MOLDED ON PHENOLIC INSULATION AND LAY-IN GROUNDING LUG.

CONDUIT LOCKNUTS SHALL BE HEAVY NUT STOCK STEEL-ZINC PLATED.

OFFSET NIPPLES SHALL BE MALLEABLE IRON ZINC PLATED WITH RIGID CONDUIT THREADING AND 3/4" OFFSET.

CONNECTORS AND COUPLINGS FOR ELECTRICAL METALLIC TUBING (EMT) SHALL BE HEAVY STEEL-ZINC PLATED WITH PRE-SET/PRE-SHAKED SET SCREWS.

CONDUIT STRAPS SHALL BE SNAP-TYPE, DOUBLE RIBBED STEEL-ZINC PLATED.

METAL CLAD CABLE AND FLEXIBLE METALLIC CONDUIT CONNECTORS SHALL BE MALLEABLE IRON-ZINC PLATED, MALE HUB THREADS WITH LOCKNUT.

ARMORED CABLE CONNECTOR SHALL BE MALLEABLE IRON-ZINC PLATED, MALE HUB THREADS WITH LOCKNUT.

CONDUIT FITTINGS SHALL BE MANUFACTURED BY O/Z GEDNEY, CROUSE-HINDS OR APPLETON.

SUPPORT FITTINGS

SUPPORT CHANNEL SHALL BE ROLL-FORMED #12 GAUGE STEEL, SOLID BASE OR BOLT HOLE BASE - HOT DIP GALVANIZED FINISH. COMPLETE WITH ANGLE FITTINGS, SPRING NUTS, CONDUIT SUPPORTS, 3/8" OR 1/2" THREADED RODS (SIZE REQUIRED FOR LOAD), ETC.

CABLE TIES

CABLE TIES SHALL BE FABRICATED OF ONE-PIECE HALLAR WITH NO METAL PARTS. MANUFACTURED BY BURNDY, T&B, PANDUIT OR BLACKBURN.

FUSES

FUSES SHALL NOT BE INSTALLED UNTIL EQUIPMENT IS READY TO BE ENERGIZED. THIS MEASURE PREVENTS FUSE DAMAGE DURING SHIPMENT OF THE EQUIPMENT FROM THE MANUFACTURER TO THE JOB SITE.

ALL FUSES SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR. FUSES SHALL BE OF THE SAME MANUFACTURER, COPPER BUSSMAN, FERRAZ SHAWMUT OR LITTLEFUSE. FUSE TYPES DESCRIBE BELOW SHALL BE U.L. LISTED DUAL ELEMENT TIME DELAY TYPE.

CIRCUIT 0 TO 600 AMPERE SHALL BE PROTECTED BY DUAL ELEMENT, TIME DELAY, CURRENT LIMITING FUSES WITH AN INTERRUPTING RATING OF 200,000 A.I.C. U.L. LISTED CLASS 'RK1'.

MOTOR CIRCUITS SHALL BE PROTECTED BY DUAL ELEMENT, TIME DELAY, CURRENT LIMITING FUSES WITH AN INTERRUPTING RATING OF 200,000 A.I.C. U.L. LISTED CLASS 'RK1'.

FUSES SHALL HAVE VOLTAGE RATING BASED ON DISTRIBUTION REQUIREMENT SYSTEMS.

OUTLET BOXES

OUTLET BOXES SHALL BE GALVANIZED STEEL, FLUSH OR SURFACE MOUNTED AND OF PROPER TYPE AND SIZE AS REQUIRED FOR THE PARTICULAR APPLICATION. SIZE AND TYPE DICTATED BY THE NUMBER OF DEVICES, NUMBER OF CONDUCTORS AND WIRING METHOD UTILIZED. BOXES SHALL BE ADEQUATE SIZE FOR THE INSTALLATION OF CONDUCTORS WITHOUT EXCESSIVE BENDING OR CRIMPING OF THE CONDUCTORS AND DAMAGING OF CONDUCTOR INSULATION. MANUFACTURED BY STEEL CITY OR RACO.

OUTLET BOXES SHALL BE SECURED FIRMLY IN PLACE TO THE BUILDING STRUCTURE AND SET TRUE AND SQUARE. PROVIDE SUITABLE MEANS TO SUPPORT OUTLET BOX TO TAKE THE WEIGHT OF THE LIGHTING FIXTURE OR DEVICE. OUTLET BOXED OR BOX EXTENSION RINGS SHALL BE SET FLUSH TO THE FINISHED WALL OR CEILING. BOXES MUST BE ATTACHED THAT THEY WILL NOT 'ROCK', 'SHIFT' OR 'MOVE IN AND OUT' WHEN DEVICES ARE USED. IN NO CASE SHALL BOXES BE INSTALLED BACK-TO-BACK IN A COMMON WALL DIVIDING TWO SPACES.

WHERE MORE THAN ONE OUTLET IS SHOWN OR SPECIFIED TO BE THE SAME ELEVATION OR ONE ABOVE THE OTHER, ALIGN THEM EXACTLY ON CENTER LINES HORIZONTALLY OR VERTICALLY.

MULTIPLE SWITCHES SHOWN AT ONE LOCATION SHALL BE INSTALLED GANGED TOGETHER UNDER ONE WALL PLATE. SWITCHES SHALL BE ARRANGED IN AN ORDER APPROPRIATE TO THE LOCATIONS OF LIGHTING FIXTURE BEING CONTROLLED.

MULTI-OUTLET RACEWAY

SEE DRAWINGS FOR TYPE AND SIZE. MANUFACTURED BY WIREMOLD.

MAIN SERVICE ENTRANCE CABINET

REFER TO ONE-LINE POWER RISER AND NOTES FOR REQUIREMENTS.

THE SERVICE ENTRANCE SHALL HAVE A CONTINUOUS CURRENT RATING OF 400 AMPERES AT 208Y/120V, THREE (3) PHASE, FOUR (4) WIRE, 60 CYCLE WITH A SHORT CIRCUIT RATING OF 69.5 KAIC RMS SYMMETRICAL OR AS INDICATED ON SCHEDULES. U.L. LISTED AND LABELED FOR SERVICE ENTRANCE. WALL MOUNTED TAMPER-PROOF ENCLOSURE WITH ANSI-61 LIGHT GRAY PAINT FINISH. FRONT ACCESSIBLE CABLE TERMINATORS. ALL BUS CONDUCTORS SHALL BE TIN PLATED ALUMINUM. 400A (FUSIBLE SWITCH) MAIN DEVICE. UTILITY. CURRENT TRANSFORMER COMPARTMENT INCLUDES FRONT HINGED COVER WITH PROVISION FOR LOCK WIRE SEALING AND BAR TYPE CURRENT TRANSFORMER MOUNTING. PROVIDE PULL SECTION WIRE COMPARTMENT. MANUFACTURED BY GENERAL ELECTRIC, SIEMENS, SQUARE 'D', CUTLER HAMMER. REFER TO PLANS FOR ADDITIONAL REQUIREMENTS.

PANELBOARDS

PANELBOARDS SHALL BE THE COMBINATION THERMAL/MAGNETIC CIRCUIT BREAKER TYPE, 3 PHASE, 4 WIRE WITH THE NUMBER OF BRANCH CIRCUITS AS INDICATED ON THE SCHEDULES. PROVIDE WITH FULLY RATED HARD-DRAWN COPPER, 98 PERCENT CONDUCTIVE PHASE AND GROUND BUS. LUGS SIZE TO ACCOMMODATE WIRE QUALITY AND SIZES. PANELS SHALL BE U.L. LISTED. DOOR-IN-DOOR DESIGN. BOXES SHALL BE CORROSION RESISTANT. ZINC FINISH GALVANIZED. FRONTS SHALL BE REINFORCED STEEL POWDER FINISH PAINTED LIGHT GRAY (ANSI-61) AND SHALL BE EQUIPPED WITH CONCEALED HINGES AND CONCEALED TRIM ADJUSTING SCREWS. DIRECTORY CARD HOLDERS SHALL BE CORROSION-PROOF VALOX WITH RETRACTABLE LATCH, KEYED ALIKE. PHASE BUS SHALL BE SEQUENCED AND FULLY INSULATED. RATINGS SHALL BE DISPLAYED ON THE DEAD FRONT SHIELD AND TOTALLY VISIBLE WITH THE DOOR OPEN. REFER TO SCHEDULES FOR OTHER REQUIREMENTS.



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Stamp



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#	Description	Date
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Project Location:

Wellness Center

1849 Post Rd E
Westport, CT 06880

Project Number	26-01071
Designed By	PA
Checked By	PA

Issued for:

PERMIT

Sheet Title:

ELECTRICAL
SPECIFICATIONS

Sheet Number:

E-701

CIRCUIT BREAKERS

BRANCH CIRCUIT BREAKERS SHALL BE QUICK-MAKE, QUICK-BREAK, BOLT-IN THERMAL MAGNETIC TYPE WITH VISIBLE CURRENT RATING AND TRIP POSITION. MANUFACTURED BY GENERAL ELECTRIC, SIEMENS, SQUARE 'D' OR CUTLER HAMMER. REFER TO SCHEDULES FOR ARC RATING.

ALL MULTI-POLE BREAKERS SHALL BE EQUIPPED WITH HANDLE TIES FOR MULTI-POLE USE.

LOAD CENTER PANELS

LOAD CENTERS SHALL BE THE COMBINATION THERMALMAGNETIC CIRCUIT BREAKER TYPE, 1 PHASE, 3 WIRE, SOLID NEUTRAL WITH THE NUMBER OF BRANCH CIRCUITS AS INDICATED ON THE DRAWINGS. COPPER GROUND BUS AND LUGS SIZED TO ACCOMMODATE WIRE SIZES. PANELS SHALL BE U.L. LISTED. BOXES SHALL BE CORROSION RESISTANT, ZINC FINISHED GALVANIZED. FRONTS SHALL BE REINFORCED STEEL POWDER FINISH PAINTED LIGHT GRAY (ANSI-61) AND BE EQUIPPED WITH CONCEALED HINGES AND CONCEALED TRIM ADJUSTING SCREWS. DIRECTORY CARD HOLDERS SHALL BE CLEAR LEXAN PERMANENTLY MOUNTED TO THE FRONT DOOR AND DOOR LOCK SHALL BE CORROSION PROOF VALOX WITH RETRACTABLE LATCH. BUS BARS SHALL BE SEQUENCED WITH PHASES FULLY INSULATED. [COPPER] [ALUMINUM], MINIMUM AIC RATING SHALL BE INDICATED ON THE SCHEDULES. CIRCUIT BREAKERS SHALL BE PLUG-IN TYPE. PANELBOARD RATINGS SHALL BE DISPLAYED ON THE DEAD FRONT SHIELD AND TOTALLY VISIBLE WITH THE DOOR OPEN. MANUFACTURED BY GENERAL ELECTRIC, SIEMENS, SQUARE 'D', OR CUTLER HAMMER.

PHASE SEQUENCE AND BALANCING

MAINTAIN CORRECT PHASE SEQUENCE OF ALL FEEDERS AND CIRCUITS WITH PHASE IDENTIFICATION THROUGHOUT THE ENTIRE SYSTEM. BALANCING ALL FEEDERS AND CIRCUITS TO WITHIN 10 PERCENT.

SAFETY/DISCONNECT SWITCHES

DISCONNECT/SAFETY SWITCHES SHALL BE MOTOR RATED, METAL ENCLOSED, INTERLOCKING, FUSIBLE OR NONFUSED AS INDICATED. HEAVY DUTY TYPE, WITH APPROPRIATE VOLTAGE RATINGS, QUICK-MAKE, QUICK-BREAK MECHANISMS, SOLID NEUTRAL AND U.L. LISTED. SWITCHES SHALL HAVE PROPER TYPE METAL ENCLOSURES, STANDARD, WEATHERPROOF, DUSTPROOF, ETC., TO SUIT THEIR SPECIFIC LOCATIONS. MANUFACTURED BY GENERAL ELECTRIC, SIEMENS, SQUARE 'D', OR CUTLER HAMMER.

COMBINATION MOTOR STARTERS

FURNISH AND INSTALL COMBINATION MOTOR STARTER, NEMA SIZE 3R, RATED FOR (208 VOLT), 3 PHASE, (NON-FUSED, FUSED, THERMAL MAGNETIC CIRCUIT BREAKER, MOTOR CIRCUIT PROTECTOR), FULL VOLTAGE, NON-REVERSING, MELTING ALLOY OVERLOADS, HAND-OFF-AUTO SWITCH AND AUXILIARY CONTACTS. MANUFACTURED BY GENERAL ELECTRIC, SIEMENS, SQUARE D OR ALLEN BRADLEY.

MANUAL MOTORS

FURNISH AND INSTALL FRACTIONAL HORSEPOWER MANUAL MOTOR STARTERS WITH ON-OFF CONTROL, THERMAL OVERLOAD RELAY AND PILOT LIGHTS. MANUFACTURED BY GENERAL ELECTRIC, SIEMENS, SQUARE 'D', OR ALLEN BRADLEY.

	GENERAL ELECTRIC	SQUARE 'D'	ALLEN BRADLEY	SIEMENS
1 POLE, SURFACE	CR101Y11	2510FG1P	600-TAX4	SMFFG1P
2 POLE, SURFACE	CR101H11	2510FG2P	600-TAX5	SMFFG2P

JUNCTION BOXES, PULLBOXES AND WIREWAYS

JUNCTION BOXES, PULLBOXES AND WIREWAYS SHALL BE OF PROPER TYPE AND SIZES AS REQUIRED. CODE GAUGE, GALVANIZED STEEL WITH KNOCKOUTS AND FLANGES TO RECEIVE THE COVERS. COVERS SHALL BE FLAT, OF THE SAME MATERIAL AS THE BOX AND FASTENED TO THE BOX WITH MACHINE SCREWS. MANUFACTURED BY HOFFMAN, SQUARE 'D', OR LEE PRODUCTS.

BACKBOARDS

BACKBOARDS SHALL BE FIRE RETARDANT, HICKSON CO. (DRI-CON) 3/4 INCH TYPE AS PLYWOOD OF SUFFICIENT SIZE FOR MOUNTING OF SPECIFIED EQUIPMENT. PAINT ALL SIDES WITH TWO (2) COATS OF FIRE-RETARDENT GRAY ENAMEL PAINT.

GROUND RODS

GROUND RODS SHALL BE HIGH STRENGTH STEEL CORE WITH ELECTROLYTIC ALLY BONDED COPPER JACKET. GROUND RODS SHALL CONFORM TO THE REQUIREMENTS OF THE U.I. SPEC. NO. 467 (ANSI C-33.8-1972). MINIMUM SIZE SHALL BE 5/8 INCH DIAMETER BY EIGHT (8) FT. UNLESS OTHERWISE INDICATED. LENGTH MANUFACTURED BY ERICO, BLACKBURN PRODUCTS, ANIXTER, OR GAVIN.

WIRING DEVICES

ALL DEVICES SHALL BE COMMERCIAL SPECIFICATION GRADE, U.L. LISTED, SELF-GROUNDING, GROUND LUG, SIDE/BACK WIRED. COLOR SHALL BE SELECTED BY ARCHITECT OR OWNER UNLESS OTHERWISE INDICATED. MANUFACTURED BY HUBBELL, LEVITON, OR PASS & SEYMOUR.

DEVICES COLOR SHALL BE SELECTED BY ARCHITECT OR OWNER UNLESS OTHERWISE INDICATED FOR NORMAL POWER CIRCUITS AND RED FOR EMERGENCY POWER CIRCUITS.

RECEPTACLES THAT HAVE A POWER FEED THRU (FEED IN - FEED OUT) ARRANGEMENT SHALL BE PIGTAILED. FEED THRU FEATURE ON DUPLEX RECEPTACLES USE IS NOT ACCEPTABLE.

SWITCHES: 20A 120/277V	HUBBELL	LEVITON	PASS & SEYMOUR
SINGLE POLE SWITCH	CSB120	CSB1-20	CSB20AC1
DOUBLE POLE SWITCH	CSB220	CSB2-20	CSB20AC2
THREE-WAY SWITCH	CSB320	CSB3-20	CSB20AC3
FOUR-WAY SWITCH	CSB420	CSB4-20	CSB20AC4
SINGLE POLE SWITCH & PILOT	HBL1221PLC	1221-LHC	PS20AC1-CPL
		(IND. SEPC)	(CLEAR COLOR)
SINGLE POLE KEY SWITCH	HBL1221L	1221-2L	20AC1-L
SINGLE POLE DOOR SWITCH	-	-	1200
SINGLE POLE TIMER SWITCH	DT1277W	-	97251
CANOPY DOOR SWITCH	-	-	1205
RECEPTACLES: 20A 125V	HUBBELL	LEVITON	PASS & SEYMOUR
DUPLEX RECEPTACLE	BR20	5362	CRB5362
DUPLEX RECEPTACLE - GFCI	GF20 AL	7899	2095

ALL INSTALLED RECEPTACLES UNDER THIS PROJECT SHALL BE TESTED AND CERTIFIED AS PER JOINT COMMISSION CERTIFICATION REQUIREMENTS. THE CONTRACTOR SHALL UTILIZE HOSPITAL FURNISHED EQUIPMENT TO PERFORM REQUIRED TESTING. CONSULT WITH FACILITIES ENGINEER FOR REQUIREMENTS.

WALL PLATES FOR SWITCHES AND RECEPTACLES SHALL BE SMOOTH THERMOPLASTIC OR NYLON IN FURNISHED AREAS. COLOR TO MATCH DEVICES. MANUFACTURED BY HUBBELL OR LEVITON.

WALL PLATES FOR SWITCHES AND RECEPTACLES SHALL BE STAMPED STEEL FOR FURNISHED AREAS. MANUFACTURED BY HUBBELL.

WALL PLATES FOR SWITCHES AND RECEPTACLES SHALL HAVE PANELBOARD AND CIRCUIT DESIGNATION ENGRAVED AT TOP OF PLATE. WALL PLATES FOR SWITCHES AND RECEPTACLES SHALL BE STAINLESS STEEL 302/304. MANUFACTURED BY HUBBELL OR LEVITON. NYLON PLATES ARE NOT ACCEPTABLE.

RECEPTACLES LOCATED IN WET LOCATIONS SHALL BE INSTALLED WITH AN OUTLET ENCLOSURE CLEARLY MARKED 'SUITABLE FOR WET LOCATIONS WHILE IN USE'. THERE MUST BE A GASKET BETWEEN THE COVER AND THE BASE TO ASSURE A PROPER SEAL. THE ENCLOSURE MUST EMPLOY STAINLESS STEEL MOUNTING HARDWARE AND BE CONSTRUCTED OF IMPACT RESISTANT POLYCARBONATE. THE OUTLET ENCLOSURE SHALL BE U.L. LISTED. MANUFACTURED BY HUBBELL, OR APPROVED EQUAL.

OCCUPANCY SENSORS

OCCUPANCY SENSOR SWITCHES SHALL BE RATED FOR 120/277 VOLT AND BE CAPABLE OF SWITCHING ZERO TO 600 WAns OF ELECTRONIC BALLAST LOADS WITH TIME DELAY SETINGS FROM 30 SECONDS TO 20 MINUTES. SENSOR SWITCHING RELAY SHALL BE TV-5 RATED OR HIGHER. MANUFACTURED BY SENSOR SWITCH, INC., WATT-STOPPER OR HUBBELL. COLOR SELECTED BY ARCHITECT.

	HUBBELL	SENSOR SWITCH, INC.	WATT-STOPPER
WALL SWITCH	ADT1227I	WSD-PDT	DW-100
LARGE AREA WALL SWITCH	WS1277	LWS-PDT	
CEILING MOUNTED SENSOR	ADT1000C	CMPTD10	
RELAY	CU300A		DT-300

LIGHTING FIXTURES

FURNISH AND INSTALL ALL LIGHTING FIXTURES AS SPECIFIED ON THE SCHEDULES, COMPLETE WITH ALL ACCESSORIES, LOUVERS, LAMPS AND MOUNTING HARDWARE. PROVIDE LAMPS FOR ALL FIXTURES OF WATTAGES AND TYPES INDICATED.

FURNISH AND INSTALL NEW LAMPS DURING THE COURSE OF CONSTRUCTION UP TO AND INCLUDING THE DATE OF FINAL COMPLETION OF THE PROJECT.

CLEAN AND REMOVE ALL PAINT, STICKERS, DIRT, SMUDGES AND FINGERPRINTS FROM LIGHTING FIXTURES AFTER FINAL BUILDING CLEAN-UP.

LAY-IN TROFFERS AND PENDANT LIGHT FIXTURES SHALL HAVE A 12 GAUGE SAFETY WIRE FASTENED FROM BUILDING STRUCTURE TO ALL FIXTURE CORNERS.

RECESSED DOWNLIGHTS SHALL BE SUPPORTED TO THE BUILDING STRUCTURE USING CHANNEL AND BAR HANGERS. A 12-GAUGE SAFETY WIRE SHALL BE FASTENED FROM BUILDING STRUCTURE TO FIXTURE AT TWO LOCATIONS OPPOSITE FROM EACH OTHER.

EMERGENCY LIGHTING AND EXIT LIGHTING SYSTEM

FURNISH AND INSTALL WHERE SHOWN ON PLANS, A SYSTEM OF UNITS SO ARRANGED THAT IN CASE OF POWER FAILURE, THESE LIGHTS WILL AUTOMATICALLY ILLUMINATE THE EGRESS AND EXIT AREAS. UNIT SHALL BE U.L. LISTED AND SHALL MEET THE REQUIREMENTS OF THE N.E.C., N.F.P.A. 101 LIFE SAFETY CODE. CONNECT EMERGENCY LIGHTING AND EXIT SIGNAGE TO LOCAL LIGHTING BRANCH CIRCUIT AHEAD OF SWITCHING DEVICE (CONSTANT POWER).

POWER AND CONTROL WIRING

FURNISH AND INSTALL ALL POWER WIRING, CONTROL WIRING (120VAC), CONDUIT AND FITTINGS FOR ALL PLUMBING, HEATING AND VENTILATING AND AIR CONDITIONING EQUIPMENT AND FINAL CONNECTIONS. MANUAL MOTOR STARTERS SHALL BE FURNISHED, INSTALLED AND WIRED BY THE ELECTRICAL CONTRACTOR. EVERY MOTOR SHALL BE PROVIDED WITH RUNNING OVERLOAD PROTECTION. UPON COMPLETION OF WORK, CHECK OUT EACH ITEM. ITEMS TO BE CHECKED ARE VOLTAGE, ROTATION AND OVERLOAD PROTECTION.

PART 3 - EXECUTION

INSTALLATION

ALL WORK, MATERIALS AND MANNER OF INSTALLING SAME SHALL BE IN STRICT ACCORDANCE WITH THE LATEST REQUIREMENTS OF THE NATIONAL ELECTRIC CODE.

ALL CONDUIT AND WIRING SHALL BE INSTALLED CONCEALED UNLESS OTHERWISE NOTED.

WIRING IN UNFINISHED AREAS SHALL BE INSTALLED EXPOSED USING EMT OR RGS CONDUIT.

WIRING IN FINISHED AREAS SHALL BE INSTALLED IN WIREMOLD RACEWAY.

RACEWAYS

RACEWAYS, ENCLOSURES AND BOXES SHALL BE MECHANICALLY JOINED TO FORM A CONTINUOUS ELECTRICAL PATH.

THE CONTRACTOR SHALL PROVIDE APPROVED TYPE PULL BOXES AS REQUIRED.

MINIMUM SIZE CONDUIT SHALL BE 3/4" UNLESS OTHERWISE NOTED.

FURNISH NYLON PULL STRINGS IN ALL EMPTY CONDUIT RUNS.

FURNISH LOCKNUTS AND BUSHINGS FOR ALL CONDUIT TERMINATIONS IN ALL OUTLET BOXES, PANELS, PULL BOXES, CONDUIT STUBS, ETC.

RIGID GALVANIZED STEEL CONDUIT (RGS) SHALL BE USED FOR WIRING IN THE FOLLOWING LOCATIONS:

- SERVICE POLE RISERS
- BURIED UNDER GRADE FOR SERVICE ENTRANCE CONDUCTORS
- WITHIN CONCRETE SLABS
- EXPOSED TO MOISTURE AND MECHANICAL DAMAGE
- EXTERIOR INSTALLATIONS

ELECTRICAL METALLIC TUBING (EMT) SHALL BE USED FOR CONCEALED AND EXPOSED WIRING IN DRY LOCATIONS AS FOLLOWS:

- INTERIOR PANEL FEEDERS
- INTERIOR LIGHTING, RECEPTACLE AND POWER BRANCH CIRCUIT WIRING

RIGID POLYVINYL CHLORIDE (PVC) SHALL BE USED FOR WIRING IN THE FOLLOWING LOCATIONS:

- BURIED UNDER GRADE FOR SERVICE ENTRANCE PRIMARY AND SECONDARY CONDUCTORS.
- LIGHTING AND POWER BRANCH CIRCUIT WIRING BURIED UNDER GRADE
- BELOW CONCRETE SLABS
- EXPOSURE TO MOISTURE

EXTERIOR FEEDERS SHALL BE INSTALLED IN RGS CONDUIT.

ALL CONDUIT SHALL BE INSTALLED IN PARALLEL AND PERPENDICULAR TO THE BUILDING LINES.

ALL CONDUIT SHALL BE SUPPORTED USING CADMIUM PLATED CONDUIT STRAPS AND HANGERS.

SEPARATE CONDUIT SYSTEMS SHALL BE INSTALLED FOR NORMAL AND EMERGENCY POWER.

WIRING

PROVIDE WIRING TO ALL OUTLETS, EQUIPMENT, APPARATUS AND OTHER SPECIALTIES UNDER THIS DIVISION THAT WHICH FURNISHED OR PROVIDED UNDER OTHER DIVISIONS OR BY THE OWNER.

THE TERM 'WIRING' SHALL BE CONSIDERED TO BE COMPRISED OF THE CONDUIT, CONDUCTORS, CONNECTIONS, ETC.

ALL WIRING ON DRAWINGS IS SIZED FOR TYPE THWN/THHN COPPER CONDUCTORS.

MINIMUM SIZE WIRE SHALL BE #12 UNLESS OTHERWISE INDICATED. ALL WIRING SHALL BE COLOR CODED.

EXERCISE CAUTION IN PULLING CONDUCTORS INTO RACEWAYS SO AS NOT TO DAMAGE THE INSULATION. CABLE PULLING LUBRICANT SHALL BE USED TO ASSIST IN PULLING.

CONDUCTOR WITHIN PANELBOARDS, JUNCTION BOXES, TROUGHS AND OTHER EQUIPMENT WHERE CONCENTRATIONS OF CONDUCTORS ARE ENCLOSED, SHALL BE NEATLY ARRANGED AND TIED WITH CABLE TIES.

CIRCUITS SHALL BE SO CONNECTED TO THE PANELBOARDS THAT THE TOTAL LOAD IS DISTRIBUTED AS NEATLY AS POSSIBLE, EQUALLY BETWEEN EACH LINE AND NEUTRAL. 10% WILL BE CONSIDERED A REASONABLE AND ALLOWABLE UNBALANCE.

BRANCH CIRCUIT WIRING FOR SWITCHES, RECEPTACLES, DEVICES AND LIGHTING IN DRYWALL CONSTRUCTION AND ACCESSIBLE HUNG CEILING SPACE, HOME-RUN CIRCUIT SHALL BE INSTALLED WITHIN EMT RACEWAY, BRANCH WIRING WITHIN PARTITIONS SHALL BE IN METAL SHEATHED 'MC' TYPE CABLE. CABLE SHALL BE SUPPORTED FROM STRUCTURE 4' O.C. WITH APPROVED CABLE SUPPORTS. PROVIDE APPROPRIATE GROMMETS FOR HORIZONTAL RUNS IN METAL STUD PARTITIONS. CABLE SHALL NOT LAY ON CEILING STRUCTURE OR TILES. PROVIDE ANTI-SHORT BUSHINGS (RED HEAD) UNDER ARMOR JACKET AT TERMINATIONS.

COMMON NEUTRAL FOR MULTIPLE BRANCH CIRCUITS IS NOT ACCEPTABLE. PROVIDE SEPARATE NEUTRAL FOR EACH BRANCH CIRCUIT.

WIRING IN OUTLET BOXES, JUNCTION BOXES, CABINET PANELBOARDS OR EQUIPMENT SHALL HAVE A MINIMUM OF EIGHT (8") INCHES LENGTH LEADS FOR CONNECTING WIRING DEVICES TO MAKE UP CIRCUIT SPLICES.

PROVIDE FLEXIBLE METAL CONDUIT FOR DRY TYPE TRANSFORMER CONNECTIONS. LENGTH OF FLEXIBLE METAL CONDUIT DO NOT EXCEED THREE FEET (3').

INSTALL COPPER GREEN INSULATED GROUNDING CONDUCTOR IN ALL CONDUITS AND RACEWAYS.

SPLICING

SPLICING SHALL BE DONE WITH INSULATED OR NON-INSULATED CONNECTORS OF APPROPRIATE TYPES AND CURRENT-CARRYING CAPACITY. NON-INSULATED CONNECTORS SHALL BE WRAPPED WITH INSULATING TAPE TO THE THICKNESS OF THE INSULATION OF THE CONDUCTORS BEING SPLICED. ELECTRICAL TAPE SHALL BE 3M OR SUPER 88 SCOTCH VINYL FLAME-RETARDANT , COLD AND WEATHER RESISTANT.

SPLICES FOR CONDUCTORS, SIZES #10 AWG OR SMALLER SHALL BE MADE WITH U.L. LISTED SPRING-TYPE CONNECTORS OR APPROPRIATE CURRENT CARRYING CAPACITY.

SPLICES, TAPS AND TERMINALS FOR CONDUCTORS #8 AWG OR LARGER SHALL BE MADE WITH U.L. LISTED BOLTED PRESSURE CONNECTORS OF BRONZE OR COPPER CONSTRUCTION, OF APPROPRIATE CURRENT CARRYING CAPACITY. EQUAL TO QIZ GEDENY, BURNDY OR BLACKBURN.

CONDUCTOR IDENTIFICATION

CONDUCTORS #8 AWG AND SMALLER SHALL HAVE A COLOR-CODED INSULATION.

CONDUCTORS #6 AWG AND LARGER SHALL BE IDENTIFIED WITH TAPES APPLIED NEAR THE ENDS OF THE CONDUCTORS.

FEEDERS AND BRANCH CIRCUIT CONDUCTORS SHALL BE IDENTIFIED FOR PHASE ROTATION.

208/120V/3PH

PHASE A	BLACK
PHASE B	RED
PHASE C	BLUE
NEUTRAL	WHITE
GROUND	GREEN

ALL FEEDERS, MAINS AND BRANCH CIRCUIT CONDUCTORS SHALL BE TAGGED AT BOTH ENDS WITH WIRE MARKERS IN ALL PANELS, MOTOR CONTROLS, JUNCTION BOXES, OUTLET BOXES AND DEVICE BOXES.

IDENTIFICATION

FURNISH AND INSTALL NAMEPLATES FOR ALL ELECTRICAL EQUIPMENT, IDENTIFYING ITEMS BY NAME, FUNCTION AND/OR CONTROL.

IDENTIFYING NAMEPLATES SHALL BE LAMINATED, PLASTIC TYPE, CONSISTING OF TWO BLACK PLASTIC SHEETS WITH ONE WHITE PLASTIC SHEET BONDED TO AND BETWEEN THE TWO OUTER BLACK SHEETS AND HAVING THE LETTERS ENGRAVED IN ONE BLACK TO THE DEPTH OF THE WHITE PLASTIC. FASTEN NAMEPLATES TO EQUIPMENT WITH SUITABLE ADHESIVES OR STAINLESS STEEL SCREWS.

ALL PANELS SHALL HAVE TYPEWRITTEN CIRCUIT DIRECTORIES IDENTIFYING ALL BRANCH CIRCUITS. PROVIDE ADDITIONAL COPY OF COMPLETE UPDATED PANEL DIRECTORY TO FACILITY ENGINEERING.

USE PLASTIC-COATED WIRE MARKERS OF THE SELF-ADHESIVE, WRAPAROUND TYPE WITH PERMANENT FACTORY-PRINTED NUMBER, LETTERS AND SYMBOLS.

WIRE MARKERS SHALL BE SECURELY ATTACHED AT BOTH ENDS, IDENTIFYING PANEL AND CIRCUIT BREAKER NUMBERS.

ALL CONDUCTORS SHALL BE PERMANENTLY TAGGED AT TIME OF INSTALLATION. LABELS SHALL BE EQUAL TO T&B, PANDUIT OR IDEAL.

GROUNDING

ALL ELECTRICAL WORK SHALL BE GROUNDED AND BONDED IN FULL CONFORMANCE WITH THE LATEST APPROVED EDITION OF THE NATIONAL ELECTRICAL CODE AND LOCAL REQUIREMENTS.

ALL ELECTRICAL EQUIPMENT, TRANSFORMERS, PANELBOARD ENCLOSURES, MOTOR FRAMES, SAFETY SWITCHES, METAL ENCLOSURES, ELECTRICAL DEVICE CLOSURES AND ALL OTHER EQUIPMENT SHALL BE MADE TO FORM A CONTINUOUS CONDUCTING, GROUND PATH OF LOW IMPEDANCE FOR GROUND FAULT CIRCUITS AND OPERATION OF THE CIRCUIT PROTECTIVE DEVICES WITHIN EACH CIRCUIT.

PROVIDE GROUNDING CONDUCTOR IN ALL RACEWAYS.

GROUND CONNECTIONS WITH THE GROUNDING CONDUCTORS SHALL BE MADE AT EACH OUTLET BOX, LIGHTING FIXTURE, MOTOR AND OTHER EQUIPMENT COMPONENTS BY MEANS OF A POSITIVELY SECURED GROUNDING CLAMP, SCREW OR CLIP. CONNECTIONS TO GROUNDING RODS, OTHER GROUNDING ELECTRODE CONDUCTORS SHALL BE MADE WITH CADWELL TYPE, EXOTHERMIC WELD PROCESS UNLESS OTHERWISE NOTED. CONNECTIONS TO PIPES SHALL BE MADE WITH APPROVED BRONZE OR BRASS CLAMPS.

BONDING SHALL BE PROVIDED TO ASSURE ELECTRICAL CONTINUITY AND THE CAPACITY TO SAFELY CONDUCT ANY FAULT CURRENT LIKELY TO BE IMPOSED.

ALL DEVICES (SWITCHES, RECEPTACLES, ETC.), SHALL BE GROUNDED TO CONDUIT SYSTEM WITH SIX (6") INCH SOLID COPPER #12 AWG INSULATED WIRE (GREEN) CONNECTED TO GROUND SCREW IN DEVICE AND FASTENED TO BACKBOX WITH 10-32x3/8" SLOTTED HEXAGON HEAD WASHER FACE GROUND WITH GREEN EYE FINISH.

VOICE/DATA SYSTEM

FURNISH OUTLET BOXES, RACEWAYS AND PLATES FOR THE VOICE/DATA SYSTEMS.

ALL WORK RELATED TO THE VOICE/DATA SYSTEM SHALL CONFORM TO THE REQUIREMENTS OF TIA/EIA TELECOMMUNICATION BUILDING WIRING STANDARDS AND BICSI TELECOMMUNICATION DISTRIBUTION STANDARDS.

INSTALL 3' SERVICE LOOPS AT BOTH ENDS OF EACH CABLE.

INSTALL ALL LOW VOLTAGE CABLE ON J-HOOKS (CADDY CAT64 OR EQUIVALENT) ABOVE HUNG CEILING SPACE APPROXIMATELY 4' ON CENTER, OR CLOSER AS REQUIRED TO PREVENT CABLES FROM CONTACTING CEILING GRID, DUCT PIPES, CONDUITS, STRUCTURE, ETC. PROVIDE 4" CONDUIT FOR CABLE PATHWAY REQUIREMENTS SPANNING AREAS WHERE THERE IS NO HUNG CEILING. PROVIDE ALL J-HOOKS, CONDUITS, SUPPORTS, ETC. FOR A COMPLETE LOW VOLTAGE CABLING RACEWAY SYSTEM.

SEISMIC RESTRAINT

SEISMIC LATERAL RESTRAINTS DESIGNED TO RESIST HORIZONTAL MOVEMENT IN ANY DIRECTIONS SHALL BE INSTALLED IN ALL SUSPENDED CONDUITS 2-1/2 INCHES IN DIAMETER OR GREATER. QUANTITY AND LOCATION OF THE LATERAL RESTRAINTS SHALL BE BASED ON THE CONDUIT SYSTEM LAYOUT AND IN GENERAL, SHALL BE INSTALLED AT CONDUIT BENDS, JUNCTION BOXES AND APPROXIMATELY EVERY 20 FEET ALONG CONDUIT RUNS. SEISMIC LATERAL RESTRAINTS ARE NOT REQUIRED FOR ANY PIPING SUSPENDED BY INDIVIDUAL HANGERS 12 INCHES OR LESS IN LENGTH FROM TOP OF PIPING TO THE BOTTOM OF THE SUPPORT FOR THE HANGER.

END OF ELECTRICAL SPECIFICATIONS



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Stamp



THIS DRAWING IS THE PROPERTY OF THE ENGINEER. IT HAS BEEN SPECIFICALLY PREPARED FOR THE OWNER FOR THIS PROJECT AT THIS SITE AND IS NOT TO BE USED FOR ANY OTHER PURPOSE, LOCATION OR OWNER WITHOUT WRITTEN CONSENT OF THE ENGINEER.

#	Description	Date
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Project Location:

Wellness Center

1849 Post Rd E
Westport, CT 06880

Project Number	26-01071
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Designed By	PA
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Checked By	PA
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Issued for:

PERMIT

Sheet Title:

ELECTRICAL
SPECIFICATIONS 2

Sheet Number:

E-702

FIXTURE CONNECTION SCHEDULE						
FIXTURE	TAG	SAN	VENT	CW	HW	NOTES
WATER CLOSET	WC	3"	1 1/2"	1/2"	–	1, 2
LAVATORY	LV	1 1/2"	1 1/2"	1/2"	1/2"	1, 2
TUB/SHOWER	BT	2"	1 1/2"	1/2"	1/2"	1, 2
SHOWER	SH	2"	1 1/2"	1/2"	1/2"	1, 2
KITCHEN SINK	KS	2"	1 1/2"	1/2"	1/2"	1, 2, 3, 4
LAUNDRY BOX	LB	2"	1 1/2"	1/2"	1/2"	1, 2, 5
NOTES: 1. PROVIDE CHROME PLATED STOP VALVES ON COLD AND HOT WATER SUPPLY LINES. 2. ALL FIXTURES AND APPLIANCES SHALL BE AS SPECIFIED BY ARCHITECT. 3. PROVIDE 1/2" HW WITH BALL VALVE & 1" DRAIN TO DISHWASHER. 4. PROVIDE AAV ON KITCHEN SINK LOCATED IN ISLAND. 5. PROVIDE WASHING MACHINE BOX WITH AUTO SHUT–OFF, WATTS OR EQUAL.						

WATER HEATER SCHEDULE												
TAG	MANUFACTURER MODEL NUMBER	TYPE	LOCATION	VOLUME (GAL)	NATURAL GAS SUPPLY PRESSURE (IN W.C.)	GAS PIPE SIZE	OPERATING WATER PRESSURE (PSI)	HW TEMP. (DEG °F)	INPUT DATA	UEF	RECOVERY (@ 67° RISE)	NOTES
HWH	NAVEN NPE–210S	GAS–FIRED TANKLESS	CLG. SPACE ABOVE TOILET ROOMS 114 & 103	–	8" – 13"	3/4"	150	120.0	19,900–180,000 (BTU MIN–MAX)	0.93	5.2 GPM	1–9
GENERAL NOTES: 1. WATER HEATERS ARE BASED ON MANUFACTURER AND MODEL NUMBER INDICATED. 2. EQUIVALENT WATER HEATERS MADE BY OTHER SPECIFIED MANUFACTURERS ARE SUBJECT TO REVIEW AND ACCEPTANCE BY ENGINEER. 3. WATER HEATERS MUST COMPLY WITH ASHRAE STANDARD 90.				4. INSTALL UNITS PER MANUFACTURERS RECOMMENDATIONS. 5. PROVIDE BRONZE SHUT–OFF (BALL) VALVES. 6. PROVIDE WITH EXPANSION TANK, AND CONDENSATE DRAIN AS INDICATED. 7. PROVIDE EXHAUST AND INTAKE VENTING TO EXTERIOR WALL. SIZE BASED ON LENGTH. 8. PROVIDE CONCENTRIC TERMINATION FITTING AND NEUTRALIZING KIT. 9. REFER TO DETAIL FOR ADDITIONAL INFORMATION.								

PIPE PENETRATON / SLEEVE SCHEDULE						
INSULATED DOMESTIC COLD WATER, HOT WATER AND HOT WATER RECIRCULATION PIPING			UNINSULATED SANITARY WASTE VENT STORM AND GAS PIPING			
PIPE DIAMETER	WALL / FLOOR SLEEVE DIAMETER	BEAM OPENING DIAMETER	PIPE DIAMETER	WALL / FLOOR SLEEVE DIAMETER	BEAM OPENING DIAMETER	
1/2" & 3/4"	3"	4"	1 1/2"	3"	3"	
1"	4"	4 1/2"	2"	4"	3 1/2"	
1 1/4"	4"	5"	2 1/2"	4"	4"	
1 1/2"	4"	5"	3"	5"	4 1/2"	
2" & 2 1/2"	5"	6"	4"	6"	5 1/2"	
3"	6"	6 1/2"	5"	8"	6 1/2"	
4"	8"	7 1/2"	6"	8"	7 1/2"	
5"	8"	8 1/2"	8"	10"	9 1/2"	
6"	10"	9 1/2"				

PIPE, FITTING AND JOINT MATERIALS SCHEDULE					
PIPING SYSTEM	LOCATION	SIZE	PIPE SPECIFICATION	FITTING SPECIFICATION	JOINT SPECIFICATION
SANITARY/WASTE	ALL	ALL	SCHEDULE 40 SOLID–CORE POLYVINYL CHLORIDE (PVC)	SCHEDULE 40 SOLID–CORE POLYVINYL CHLORIDE (PVC) WITH SOLVENT CEMENT WELD ENDS	SOLVENT CEMENT WELDED
VENT	ALL	ALL	SCHEDULE 40 SOLID–CORE POLYVINYL CHLORIDE (PVC)	SCHEDULE 40 SOLID–CORE POLYVINYL CHLORIDE (PVC) WITH SOLVENT CEMENT WELD ENDS	SOLVENT CEMENT WELDED
INDIRECT WASTE	ABOVE GROUND	ALL	SCHEDULE 40 SOLID–CORE POLYVINYL CHLORIDE (PVC)	SCHEDULE 40 SOLID–CORE POLYVINYL CHLORIDE (PVC) WITH SOLVENT CEMENT WELD ENDS	SOLVENT CEMENT WELDED
COLD WATER HOT WATER	CRAWL SPACE	ALL	HARD DRAWN SEAMLESS COPPER TUBING, TYPE "L"	WROUGHT COPPER FITTINGS CONFORMING TO ANSI B16.22	SOLDER JOINTS COPPER ALLOY GRADE WITH ZERO LEAD SOLDER FLUX OR COPPER PRESS–CONNECT JOINT.
	ABOVE GROUND/ RISERS	ALL	HARD DRAWN SEAMLESS COPPER TUBING, TYPE "L"	WROUGHT COPPER FITTINGS CONFORMING TO ANSI B16.22	SOLDER JOINTS COPPER ALLOY GRADE WITH ZERO LEAD SOLDER FLUX OR COPPER PRESS–CONNECT JOINT.
	ABOVE GROUND DWELLING UNIT DISTRIBUTION	ALL	CROSSLINKED POLYETHYLENE TUBING (PEX–C)	BRASS WITH BARBED ENDS	PINCHLOCK CLAMPS
GAS	ALL	ALL	SCHEDULE 40 BLACK STEEL CONFORMING TO ASTM A53	MALLEABLE IRON CONFORMING TO ASTM B16.3	THREADED

ABBREVIATIONS LIST			
(NOT ALL ABBREVIATIONS SHOWN ARE NECESSARILY USED ON THIS PROJECT)			
AD	ACCESS DOOR	LB	LAUNDRY BOX
BLDG	BUILDING	LV	LAVATORY
CO	CLEANOUT	MS	MOP SINK
CLG	CEILING	N/A	NOT APPLICABLE
CONN	CONNECT / CONNECTION	NTS	NOT TO SCALE
CW	DOMESTIC COLD WATER	PRV	PRESSURE REDUCING VALVE
DN	DOWN (PENETRATES FLOOR SLAB)	PW	PUMPED WASTE
DPCO	CLEANOUT DECKPLATE	PSI	POUNDS PER SQUARE INCH
DR	DRAIN	S	SANITARY/SOIL
DW	DISHWASHER	SH	SHOWER
DWG	DRAWING	ST	STORM
F	FIRE SERVICE	TYP	TYPICAL
FD	FLOOR DRAIN	UON	UNLESS OTHERWISE NOTED
FL	FLOOR	UP	UP (PENETRATES FLOOR SLAB)
G	GAS	V	VENT
GAL	GALLONS	VB	VACUUM BREAKER
GPM	GALLONS PER MINUTE	VIF	VERIFY IN FIELD
GPH	GALLONS PER HOUR	VTR	VENT THROUGH ROOF
HB	HOSE BIBB	WV	WET VENT
HW	DOMESTIC HOT WATER	WC	WATER CLOSET
IW	INDIRECT WASTE	WHA	WATER HAMMER ARRESTER
KS	KITCHEN SINK		

CONNECTICUT STATE CODES AND STANDARDS
2022 CONNECTICUT STATE BUILDING CODE 2018 SUPPLEMENT TO CONNECTICUT BUILDING CODE 2021 INTERNATIONAL BUILDING CODE 2021 INTERNATIONAL PLUMBING CODE 2021 INTERNATIONAL FUEL GAS CODE 2021 INTERNATIONAL MECHANICAL CODE 2020 NATIONAL ELECTRICAL CODE (NFPA 70) - LOCAL FIRE DEPARTMENT/FIRE MARSHALL - ALL OTHER LOCAL AUTHORITIES HAVING JURISDICTION
CONNECTICUT STATE ENERGY CODE
2021 INTERNATIONAL ENERGY CONSERVATION CODE
REFERENCE STANDARDS
APPLICABLE REFERENCE STANDARDS SHALL BE REFERENCED BY ALL STATE AND LOCAL CODES. THE LIST BELOW IS FOR QUICK REFERENCE AND DOES NOT INCLUDE ALL APPLICABLE REFERENCE STANDARDS. 2019 NFPA 13 – STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS 2019 NFPA 14 – STANDARD FOR THE INSTALLATION OF STANDPIPE AND HOSE SYSTEMS 2021 NFPA 54 – NATIONAL FUEL GAS CODE 2020 NFPA 70 – NATIONAL ELECTRICAL CODE 2019 NFPA 72 NATIONAL FIRE ALARM AND SIGNALING CODE

PLUMBING GENERAL NOTES
1. THESE GENERAL NOTES ARE APPLICABLE TO ALL PLUMBING DRAWINGS.
2. DRAWINGS ARE DIAGRAMMATIC AND SHOW GENERAL INTENT OF WORK, SEE DETAILS, SCHEDULES AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
3. PLUMBING 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.
4. THE PLUMBING CONTRACTOR IS RESPONSIBLE FOR PROVIDING AND INSTALLING ALL SERVICES TO HVAC EQUIPMENT INCLUDING BUT NOT LIMITED TO: CONDENSATE PIPING, COLD WATER SUPPLY PIPING, DRAINS, AND CONNECTIONS TO AIR HANDLING UNITS, FAN COIL UNITS, ETC. ALSO, DEVICES REQUIRED INCLUDE BACKFLOW PREVENTERS, REGULATORS, UNIONS, TRAPS, AND SHUT–OFF VALVES REQUIRED FOR THIS EQUIPMENT. REFER TO HVAC DRAWINGS FOR ADDITIONAL INFORMATION AND COORDINATION.
5. THE PLUMBING CONTRACTOR SHALL PROVIDE PIPE EXPANSION JOINTS ON PIPING PASSING THRU ALL BUILDING EXPANSION JOINT LOCATIONS AS REQUIRED PER BUILDING CODES WHETHER OR NOT SHOWN ON DRAWINGS. REVIEW ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR EXACT BUILDING EXPANSION JOINT LOCATIONS AND EXPANSION DIMENSIONS.
6. THE PLUMBING CONTRACTOR SHALL INSTALL ALL PIPING EQUIPMENT AND ACCESSORIES IN ACCORDANCE WITH THE LATEST STATE BUILDING CODE AND LOCAL AUTHORITIES HAVING JURISDICTION. COORDINATION BETWEEN TRADES IS REQUIRED TO INSURE COMPLIANCE WITH THE GOVERNING CODES.

PLUMBING LEGEND	
(NOT ALL SYMBOLS SHOWN ARE NECESSARILY USED ON THIS PROJECT)	
	SANITARY
	SANITARY PIPING BELOW SLAB
	STORM PIPING
	VENT PIPING
	COLD WATER SUPPLY
	HOT WATER SUPPLY
	GAS PIPING
	CONTINUES
	PIPE DOWN/DROP
	PIPE UP/RISE
	PIPE TEE DN/DROP
	TRAP
	REDUCER
	FLEX CONNECTION
	FULL PORT SHUT–OFF VALVE
	DOUBLE CHECK VALVE
	3–WAY MIXING VALVE
	GATE VALVE
	GAS SHUT–OFF VALVE
	GAS PRESSURE REDUCING VALVE
	FLOOR DRAIN
	HOSE BIBB
	CLEANOUT
	CONNECT TO EXISTING

PLUMBING PIPING NOTES
1. ALL HORIZONTAL VENT PIPING SHALL BE 1 1/2" MINIMUM. ALL VENT PIPING ROOF PENETRATIONS SHALL BE 3" IN DIAMETER AND 18" ABOVE ROOF SURFACE.
2. HEAT TRACE ALL SANITARY TRAPS LOCATED BELOW FLOOR. COORDINATE WITH ELECTRICAL CONTRACTOR.
3. INSTALL PROTECTIVE METAL CASING AROUND ALL GAS PIPING LOCATED INSIDE WALL CAVITY. COORDINATE WITH GENERAL CONTRACTOR.
4. REFER TO DRAWING P200 SERIES FOR PLUMBING DETAILS.
5. REFER TO GAS RISER DIAGRAM FOR PIPING DETAILS FROM RISER TO GAS FIRED EQUIPMENT.
6. REFER TO SANITARY RISER DIAGRAMS FOR SANITARY AND VENT PIPING DETAILS TO FIXTURES..
7. REFER TO FIXTURE ROUGHING SCHEDULE FOR PIPE SIZES TO EACH FIXTURE.
8. ALL EXPOSED PIPING SHALL INCLUDE ESCUTCHEONS AT EACH WALL AND FLOOR PENETRATION.
9. PLUMBING CONTRACTOR SHALL PROVIDE AND INSTALL SHUT–OFF VALVE AND BACKFLOW PREVENTION DEVICE ON ALL CW CONNECTIONS TO HOSE BIBBS, DRINKING FOUNTAIN, APPLIANCES AND ALL OTHER DEVICES AS REQUIRED BY CODE.
10. REFER TO MANUFACTURER'S INSTALLATION MANUAL FOR EQUIPMENT AND APPLIANCES' PIPE CONNECTION SPECIFICATIONS AND PIPING, VALVE AND FITTING CONFIGURATION.

PLUMBING DRAWING LIST	
SHEET NUMBER	SHEET TITLE
P–001	PLUMBING COVER SHEET & SCHEDULES
P–100	PLUMBING PLANS
P–200	PLUMBING DETAILS
P–201	PLUMBING DETAILS
P–300	PLUMBING RISER DIAGRAMS
P–400	PLUMBING SPECIFICATIONS

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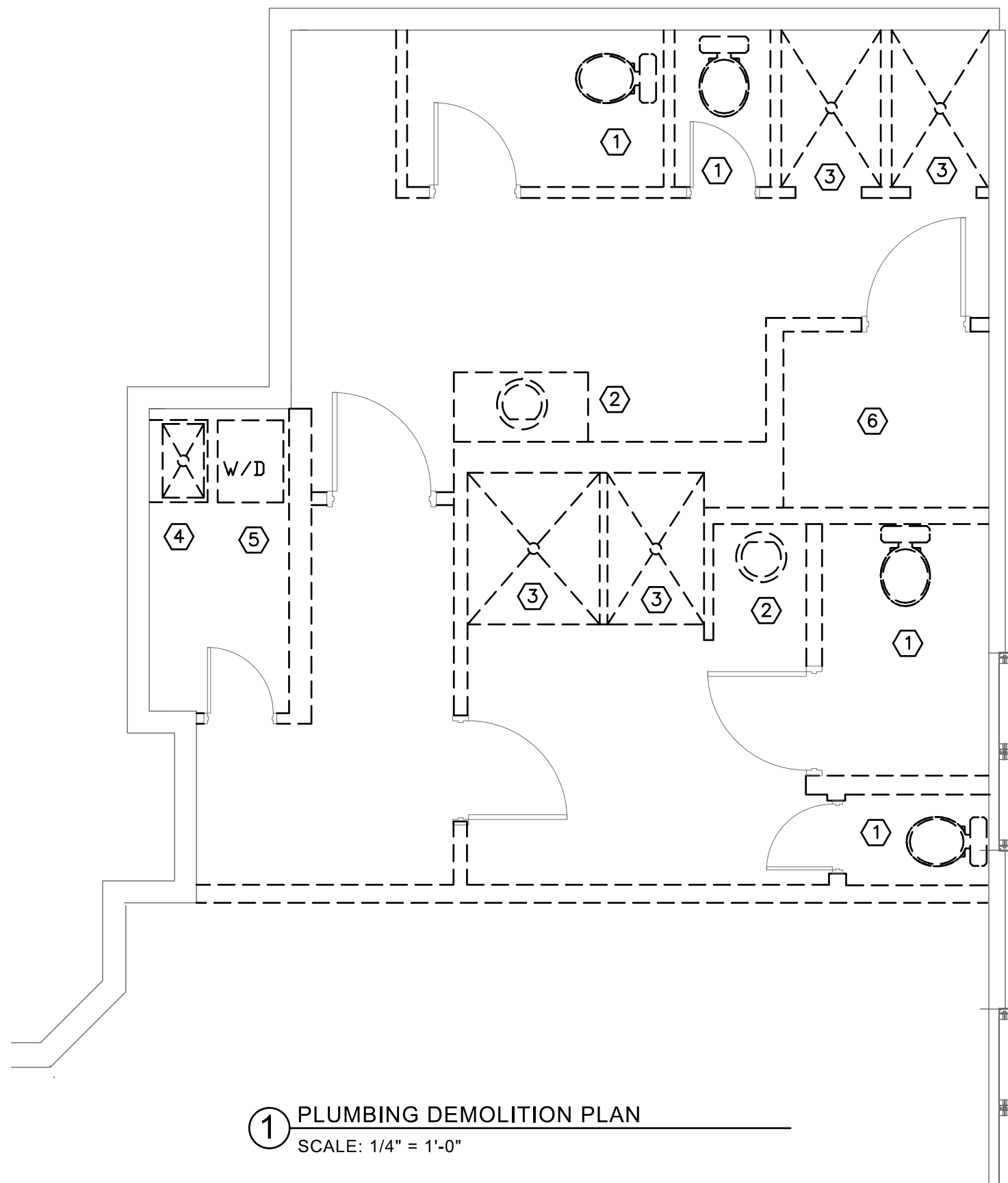
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PLUMBING
COVER SHEET
& SCHEDULES

Sheet Number:

P-001

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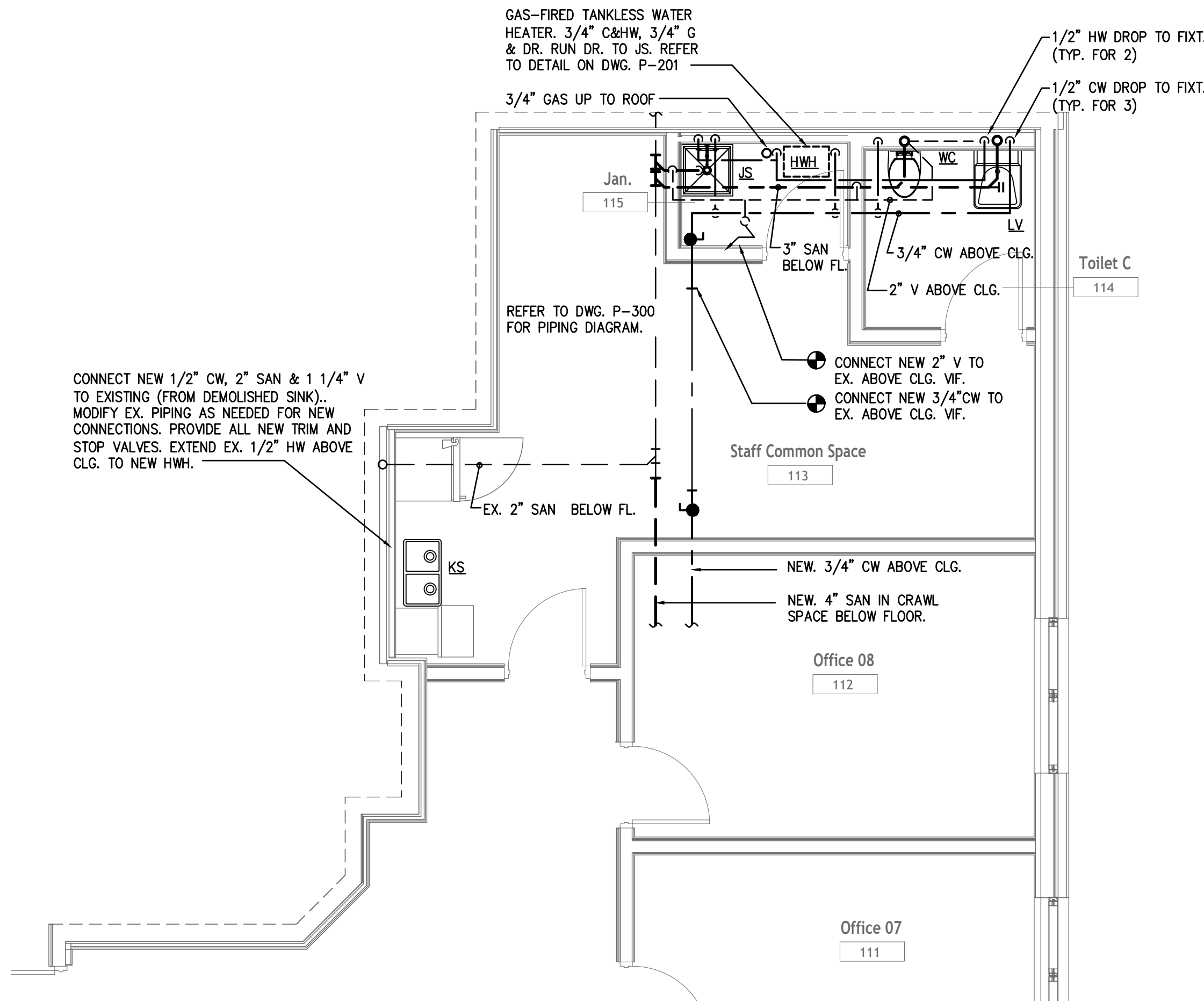
1 PLUMBING DEMOLITION PLAN
SCALE: 1/4" = 1'-0"

PLUMBING DEMOLITION CODED NOTES:

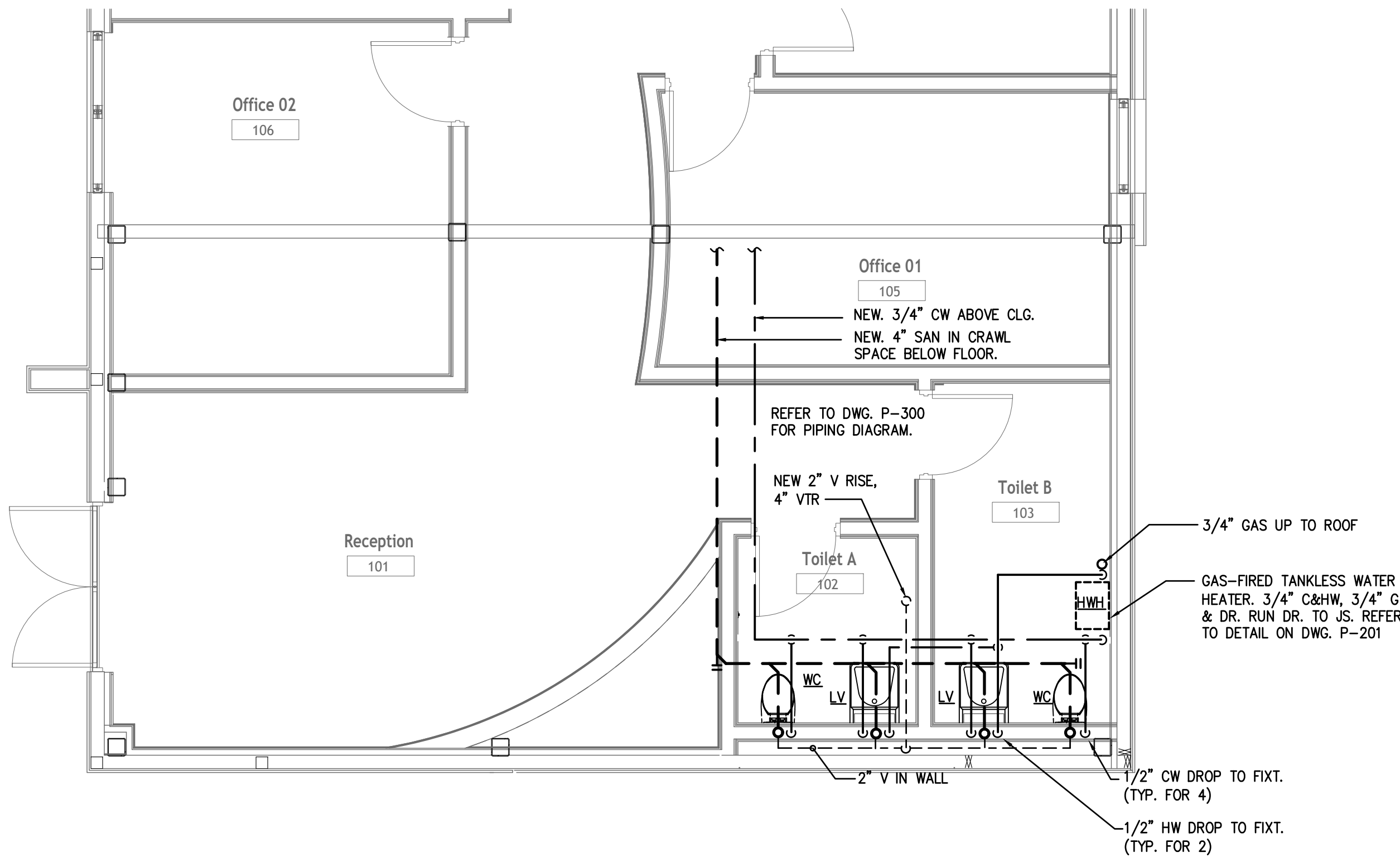
- 1 DISCONNECT, REMOVE AND PROPERLY DISPOSE OF EXISTING WATER CLOSET AND ALL ASSOCIATED TRIM. RETAIN ALL ASSOCIATED CW, SAN, & VENT PIPING FOR NEW WATER CLOSET.
- 2 DISCONNECT, REMOVE AND PROPERLY DISPOSE OF EXISTING LAVATORY AND ALL ASSOCIATED TRIM. RETAIN ALL ASSOCIATED CW, HW, SAN, & VENT PIPING FOR NEW LAVATORY.
- 3 DISCONNECT, REMOVE AND PROPERLY DISPOSE OF EXISTING SHOWER DRAIN, VALVE AND ALL TRIM. RETAIN ALL ASSOCIATED CW, HW, SAN, & VENT PIPING FOR NEW SHOWER..
- 4 DISCONNECT, REMOVE AND PROPERLY DISPOSE OF EXISTING KITCHEN SINK AND ALL ASSOCIATED TRIM. DISCONNECT CW FROM REF. REMOVAL OF APPLIANCES BY OTHERS. REMOVE ALL ASSOCIATED CW, HW, SAN, & VENT PIPING AND CAP (UON).
- 5 DISCONNECT WATER PIPING FROM WASHER. REMOVE DRAIN AND ALL ASSOCIATED TRIM. REMOVE ALL ASSOCIATED SAN, & VENT PIPING AND CAP (UON). REMOVAL OF WASHER BY OTHERS.
- 6 DISCONNECT, REMOVE AND PROPERLY DISPOSE OF EXISTING WATER HEATER AND ALL ASSOCIATED TRIM. VERIFY LOCATION IN FIELD

PLUMBING DEMOLITION NOTES:

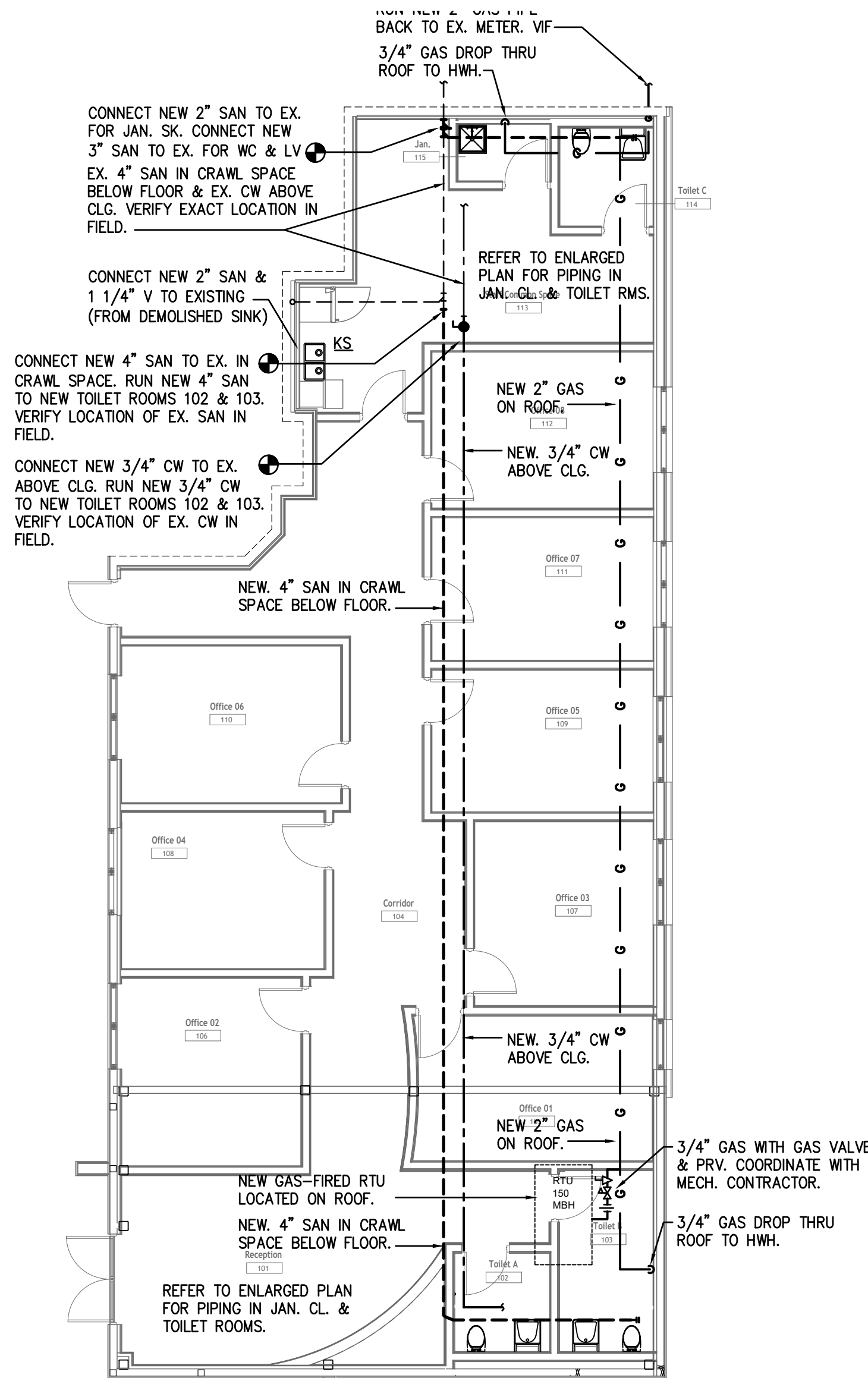
1. ALL PIPE HANGERS, FIXTURE CARRIERS AND SUPPORTS ASSOCIATED WITH DEMOLISHED PLUMBING FIXTURES AND PIPING SHALL BE REMOVED AS PART OF DEMOLITION.
2. ALL DEMOLISHED MATERIALS SHALL BE REMOVED FROM SITE AND OR DISCARDED IN DUMPSTERS PROVIDED BY GENERAL CONTRACTOR (UNLESS OTHERWISE NOTED).



2 ENLARGED PLUMBING PLAN - JAN. CL. & TOILET ROOM 114
SCALE: 1/4" = 1'-0"



3 ENLARGED PLUMBING PLAN - TOILET ROOMS 102 & 103
SCALE: 1/4" = 1'-0"



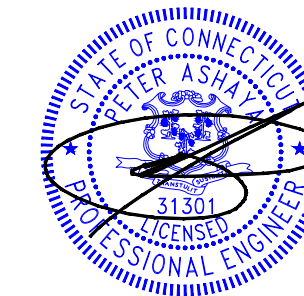
4 PLUMBING FLOOR PLAN
SCALE: 1/8" = 1'-0"



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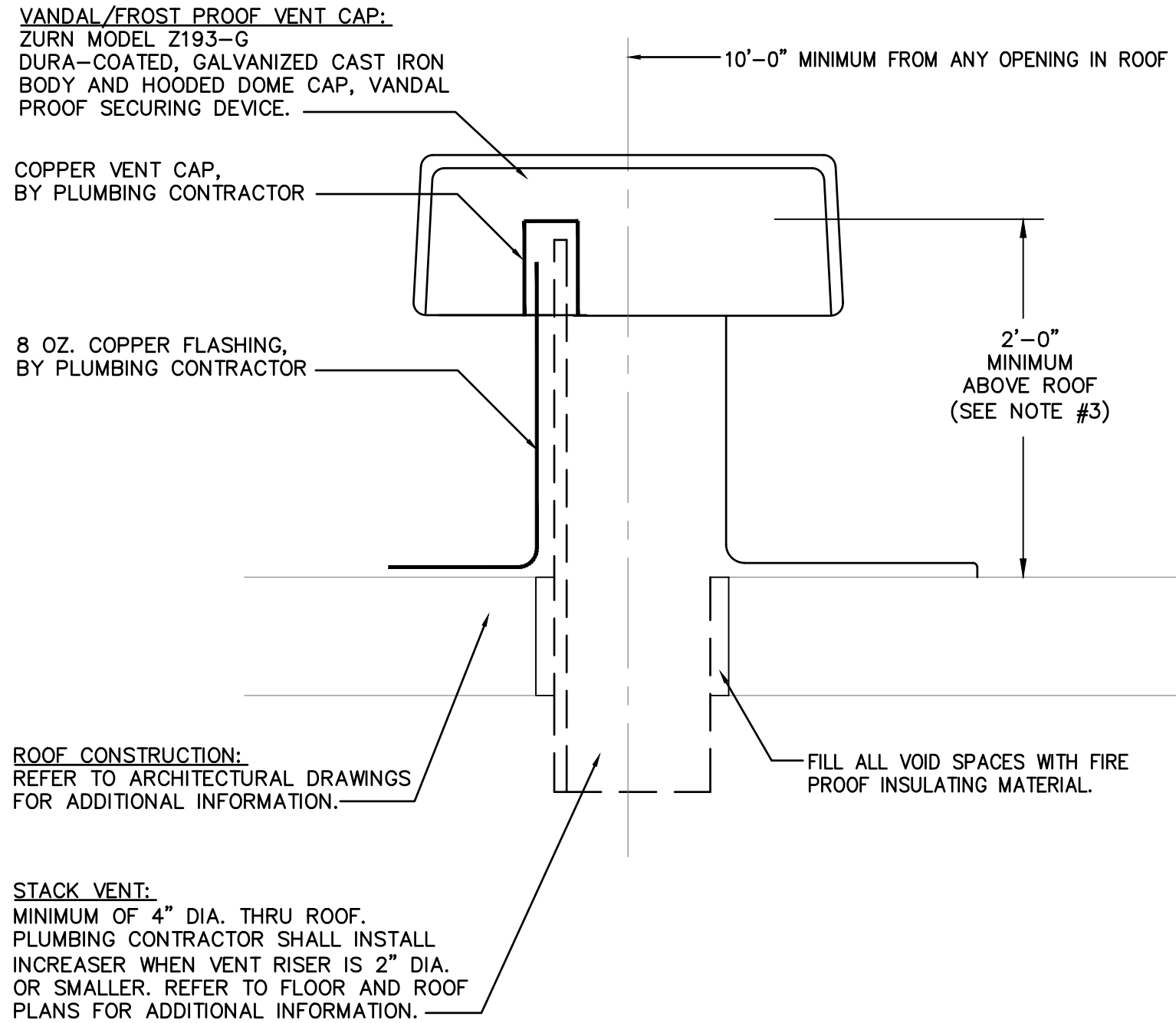
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Sheet Title:

PLUMBING
PLANS

Sheet Number:

P-100

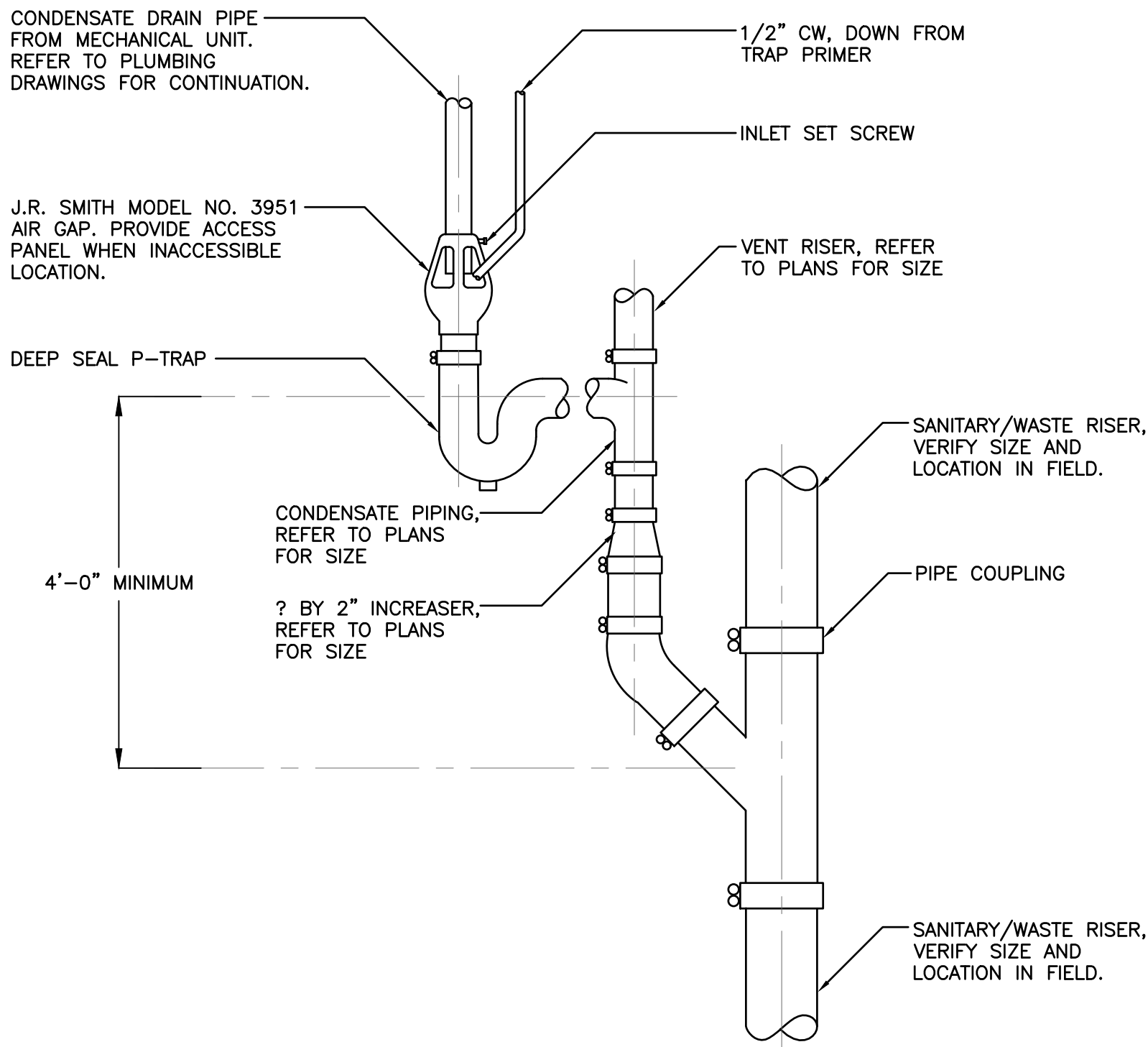


STACK VENT NOTES:

- ALL VENT RISERS SHALL BE OFFSET AS REQUIRED TO CLEAR ROOF STRUCTURE, DUCTWORK, OR MECHANICAL EQUIPMENT ON ROOF.
- PLUMBING CONTRACTOR SHALL COORDINATE FINAL VENT RISER LOCATIONS WITH OTHER TRADES WORK IN THE FIELD.
- THE MINIMUM TERMINATION HEIGHT MUST BE DETERMINED BY THE LOCAL AUTHORITY HAVING JURISDICTION BASED ON ITS SNOW FALL RATES. THE TERMINAL HEIGHT SHOULD BE NO LESS THAN 18 INCHES ABOVE THE ROOF TO PROTECT THE TERMINAL FROM BEING BLOCKED BY SNOW AND ALLOW SUFFICIENT LENGTH OF PIPE FOR PROPER ROOF FLASHING.
- VENT PIPE SHALL BE TEN FEET MINIMUM FROM ANY BUILDING OPENING OR FRESH AIR INTAKE, ONE FOOT MINIMUM HORIZONTALLY FROM ANY VERTICAL SURFACE AND 18 INCHES MINIMUM HORIZONTALLY FROM PARAPET, EXPANSION JOINT AND EQUIPMENT CURBS.

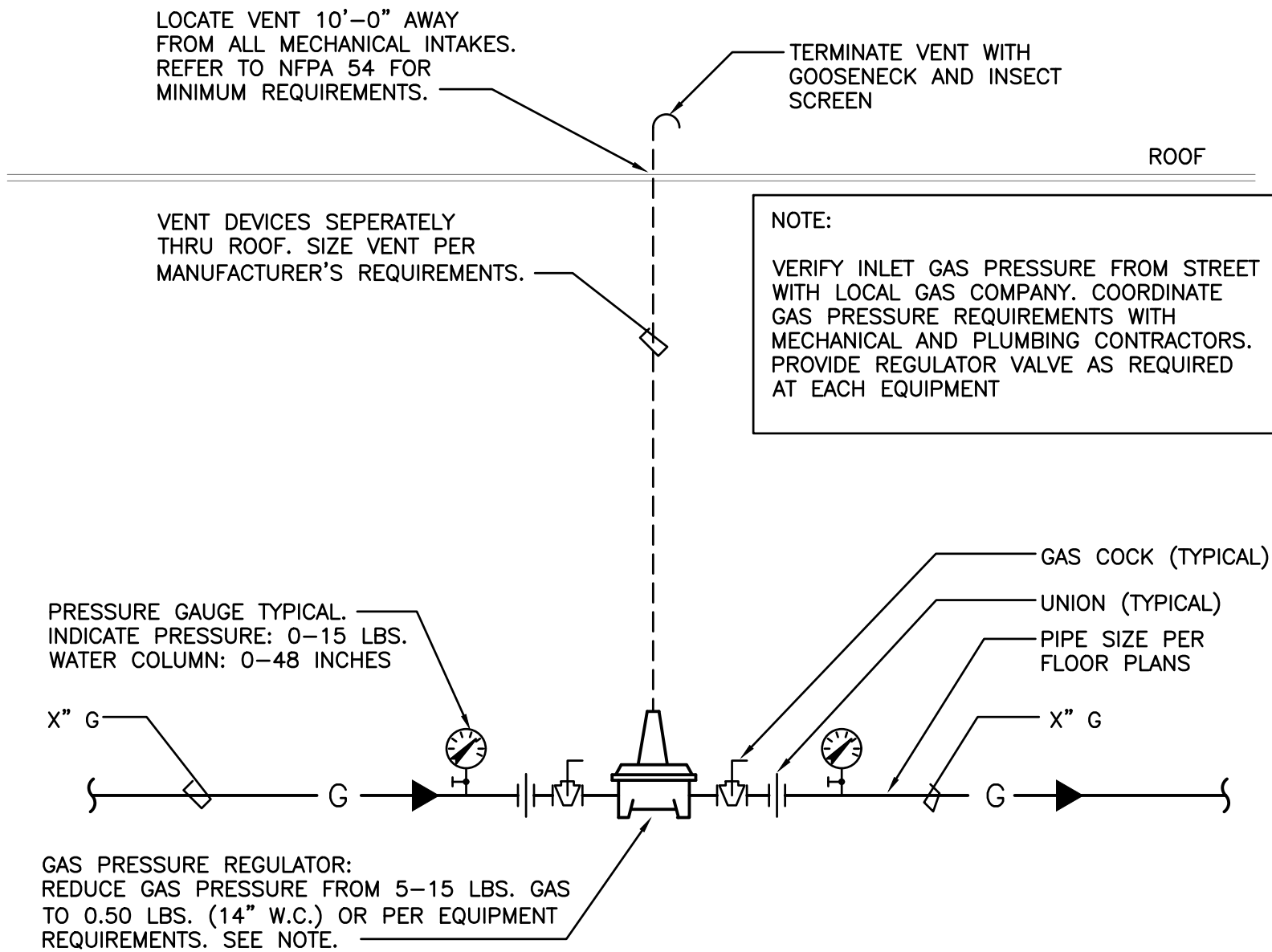
TYPICAL VENT STACK FLASHING DETAIL - FLAT ROOF

SCALE: N.T.S.



TYPICAL CONDENSATE DRAIN TO SANITARY/WASTE RISER DETAIL

SCALE: N.T.S.



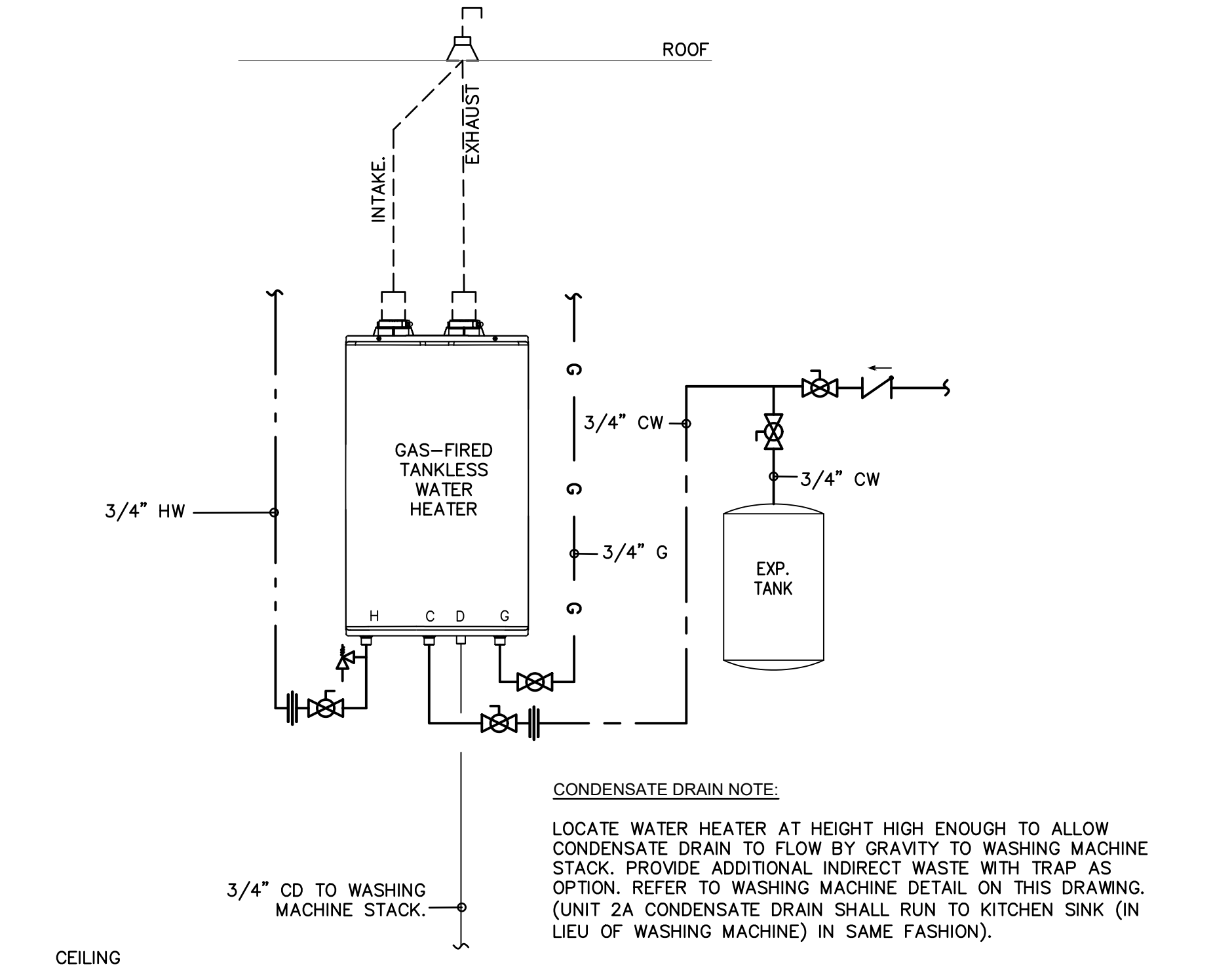
NOTE:

(TO BE USED IF HIGH PRESSURE IS RUN TO ROOF.)

GAS PRESSURE REGULATOR SHALL BE "TRACPIPE" MODEL# FGP-REG-3 W/ INTEGRAL VENT LIMITER. REDUCE GAS PRESSURE FROM 2 P.S.I. TO EQUIPMENT REQUIREMENTS (4" - 14" W.C.)

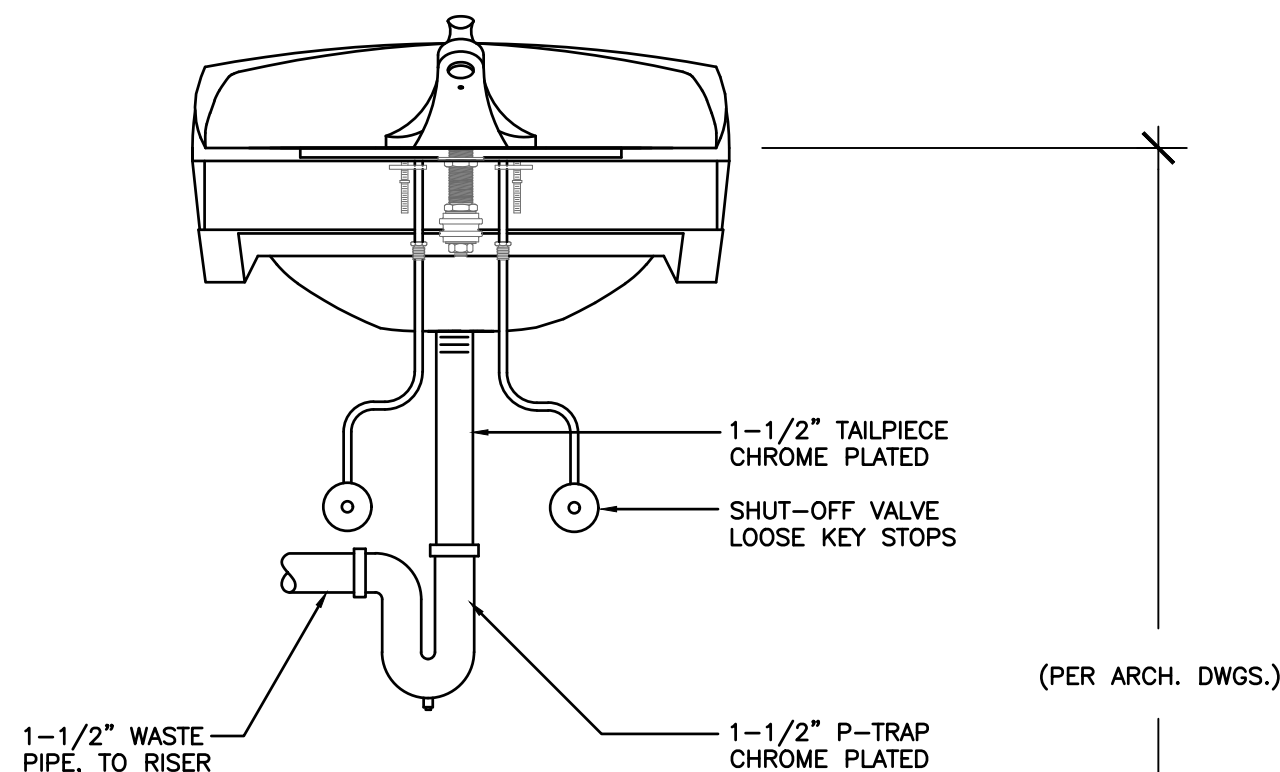
TYPICAL GAS PRESSURE REGULATOR INSTALLATION DETAIL

SCALE: N.T.S.



TANKLESS HOT WATER HEATER WITH EXPANSION TANK PIPING SCHEMATIC

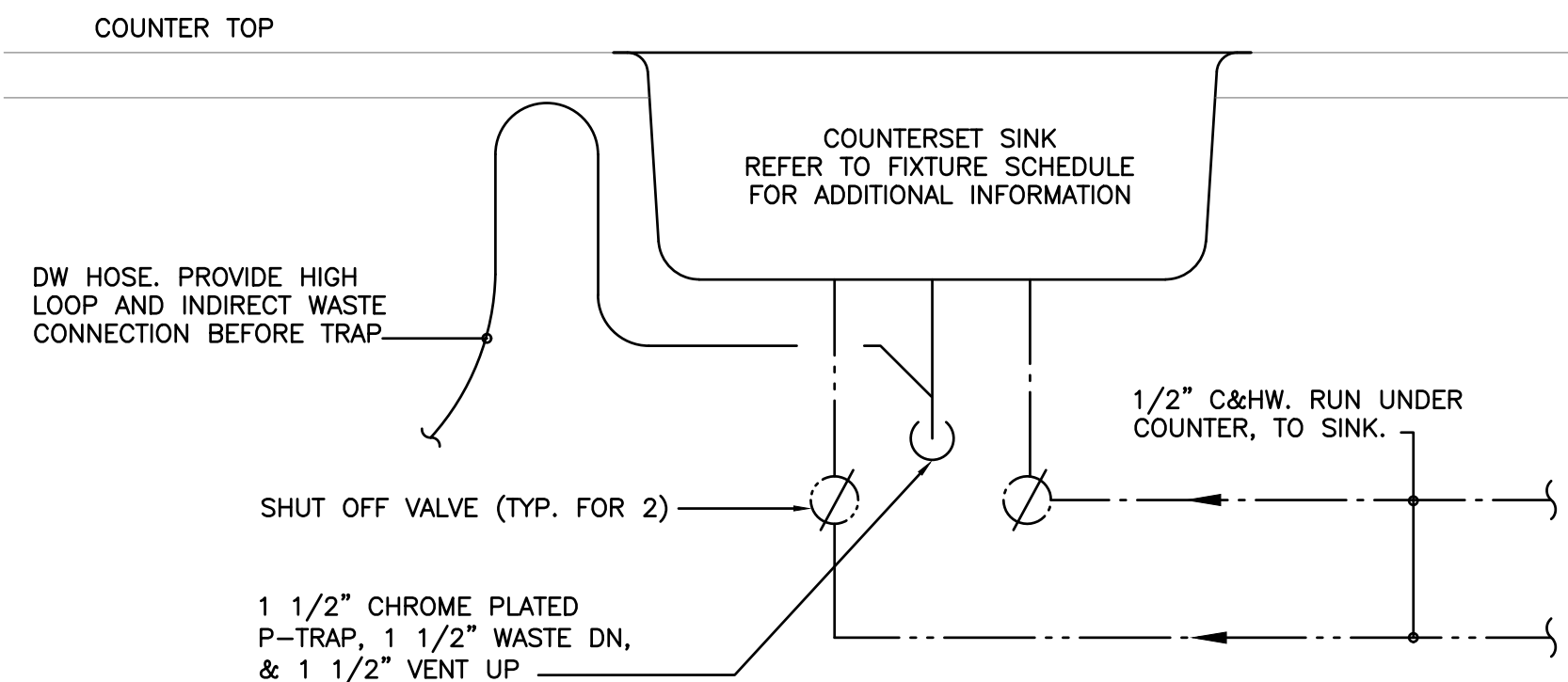
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FINISHED FLOOR

TYPICAL LAVATORY PIPING INSTALLATION DETAIL

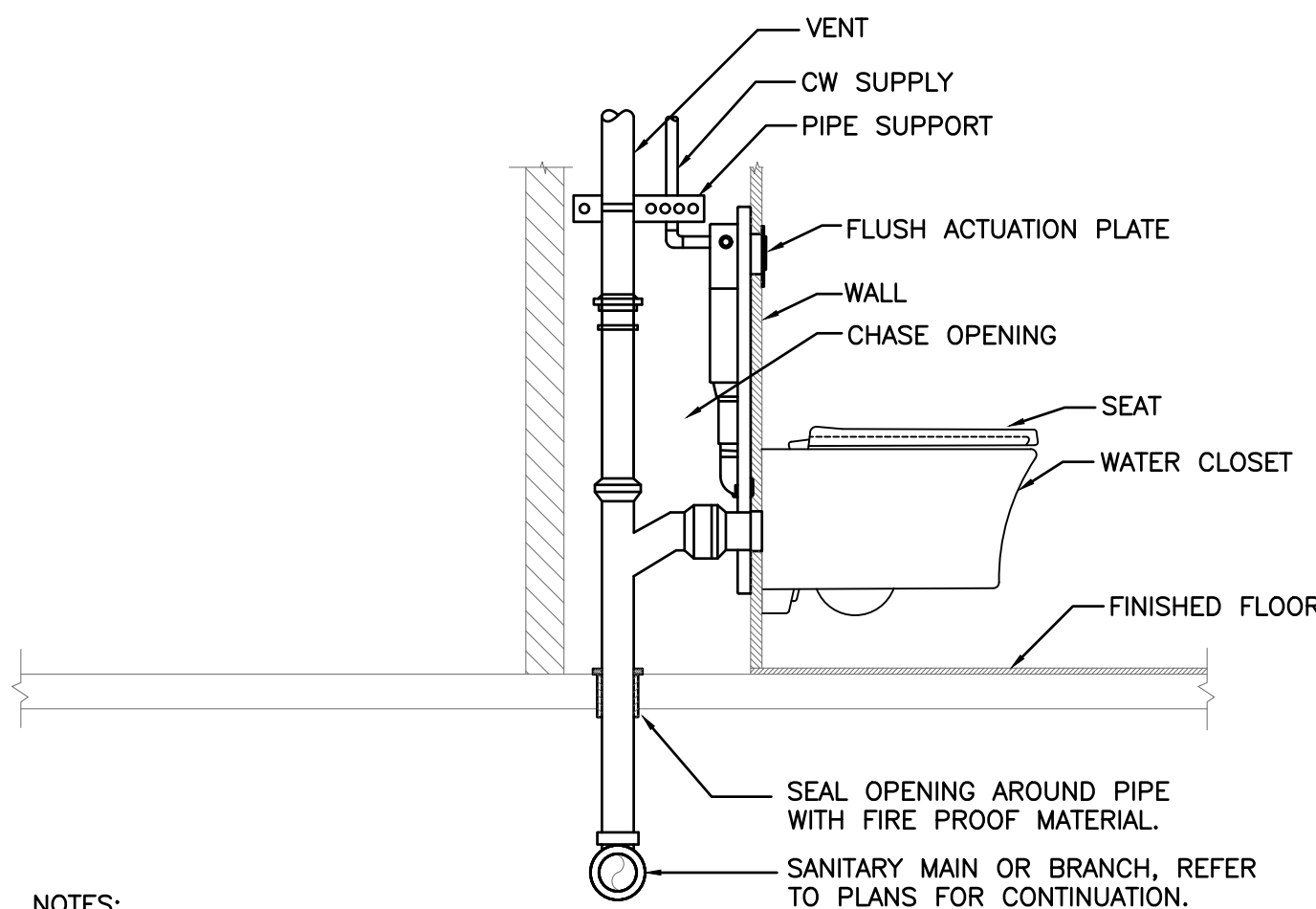
SCALE: N.T.S.



FINISHED FLOOR

TYPICAL KITCHEN SINK PIPING INSTALLATION DETAIL

SCALE: N.T.S.



NOTES:

- FOR CONTINUATION OF PIPING,
REFER TO PLANS.
- MINIMUM CHASE SPACE SHOWN
MUST BE CLEAR SPACE. NO STEEL,
STUDS, OR OTHER IMPEDIMENTS CAN
BE INSTALLED IN THIS SPACE.

SIDE ELEVATION

TYPICAL WATER CLOSET INSTALLATION DETAIL

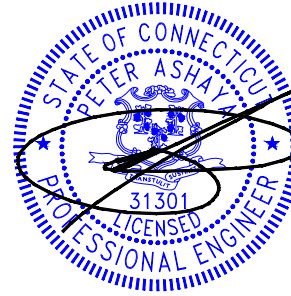
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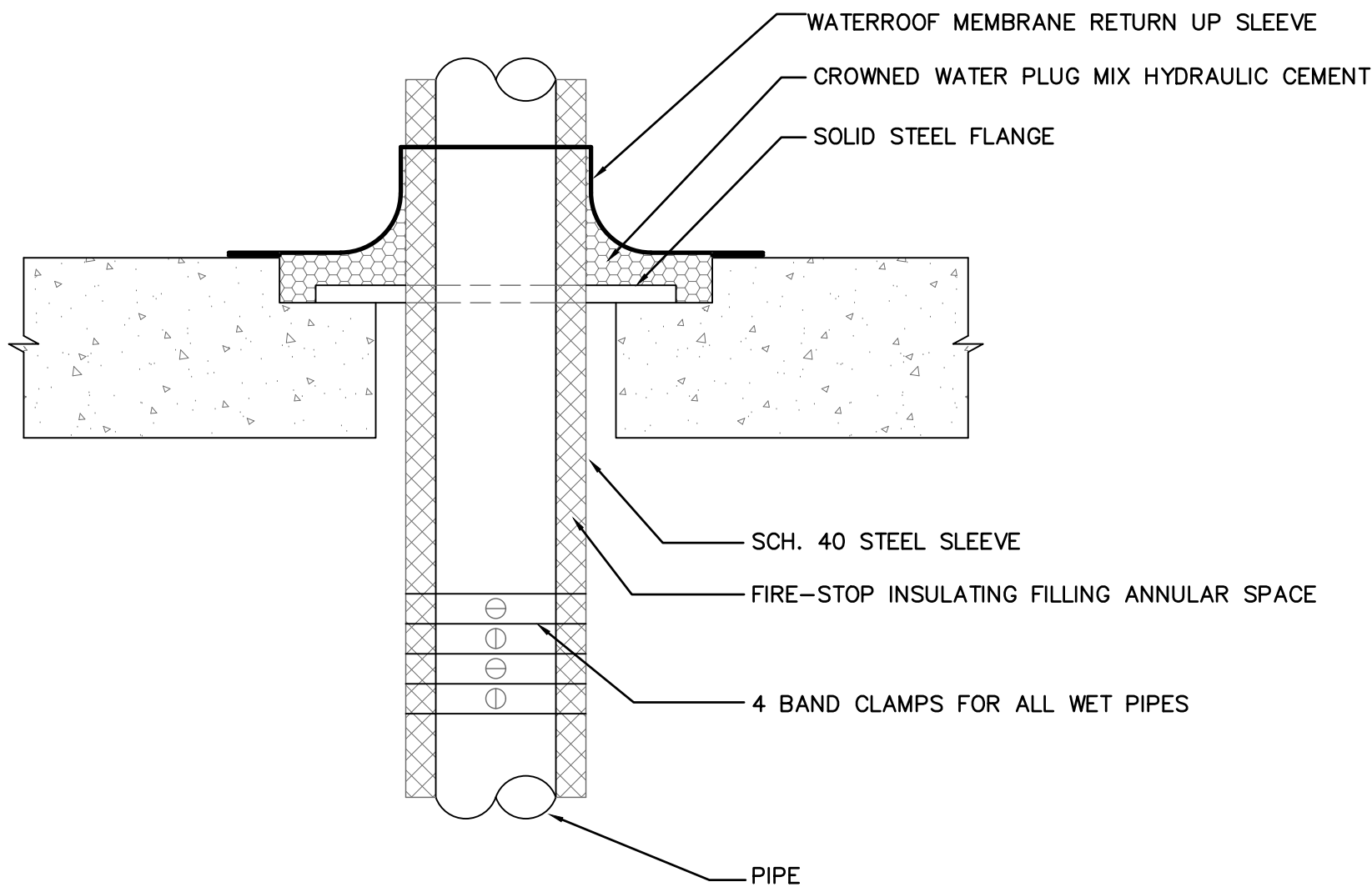
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Sheet Title:

PLUMBING
DETAILS

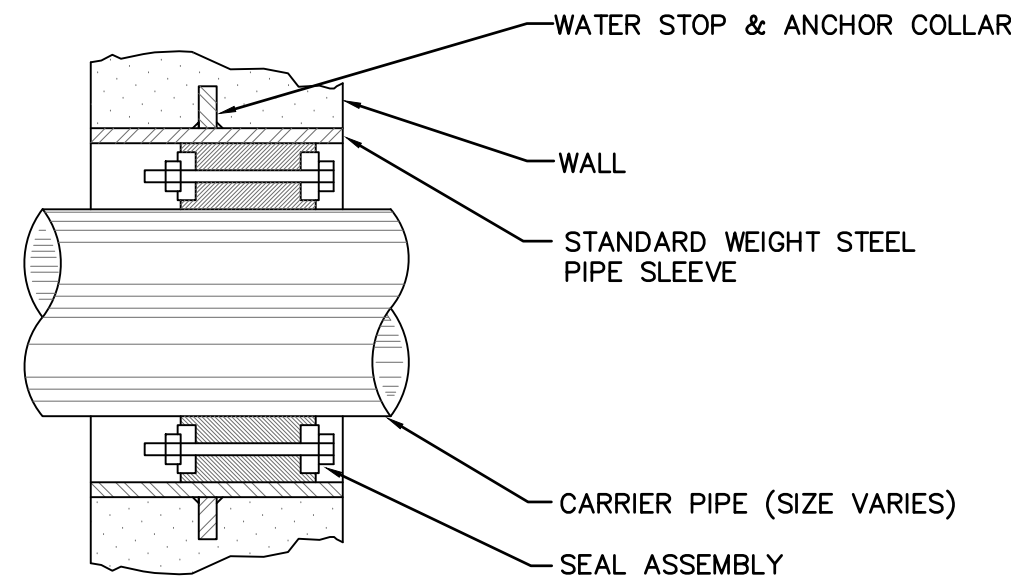
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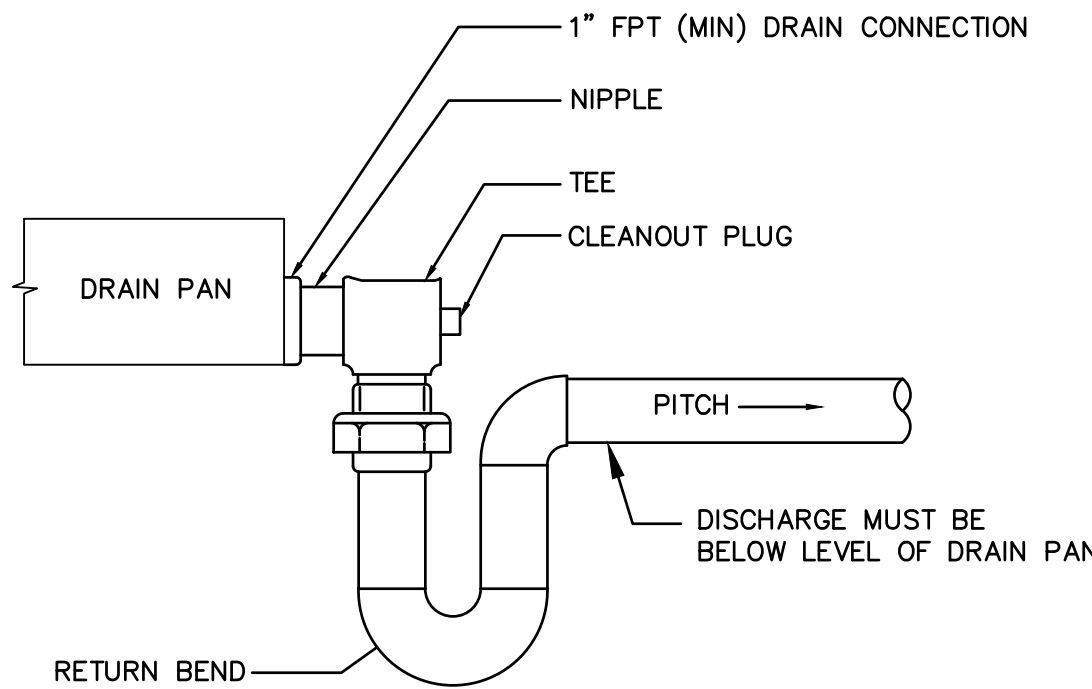
WATERPROOFING SLEEVE DETAIL

SCALE: N.T.S.



WATERTIGHT SLEEVE DETAIL

SCALE: N.T.S.

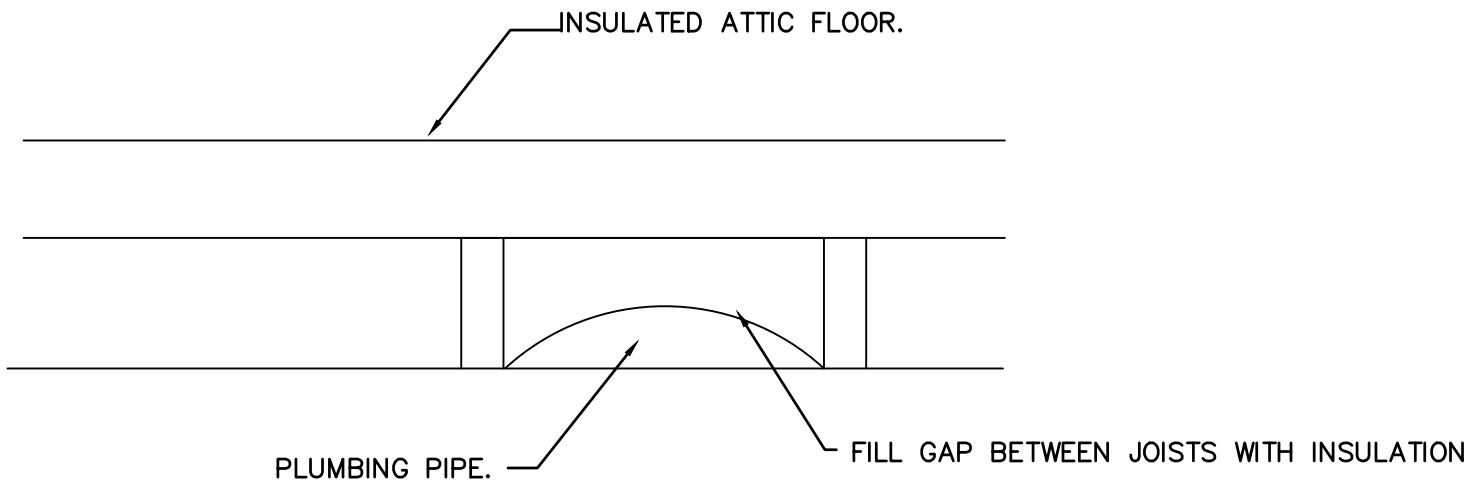


NOTES:

1. ADD STRUCTURAL STEEL TO RAISE BOTTOM OF THE UNIT TO ACCOMMODATE DROP AND TRAP HEIGHT.
2. PITCH DRAIN FOR PROPER RUN-OFF AND DISCHARGE TO APPROVED RECEPTACLE
3. SUPPORT DRAIN LINES TO PREVENT SAG AND CONDENSATE OVERFLOW.
4. MANUALLY PRIME FILL TRAP BEFORE START UP TO FORM INITIAL DRAIN SEAL.
5. PROVIDE PUMP AS NEEDED. VERIFY CEILING HEIGHT AND LENGTH OF DRAIN PIPE TO POINT OF DISCHARGE.

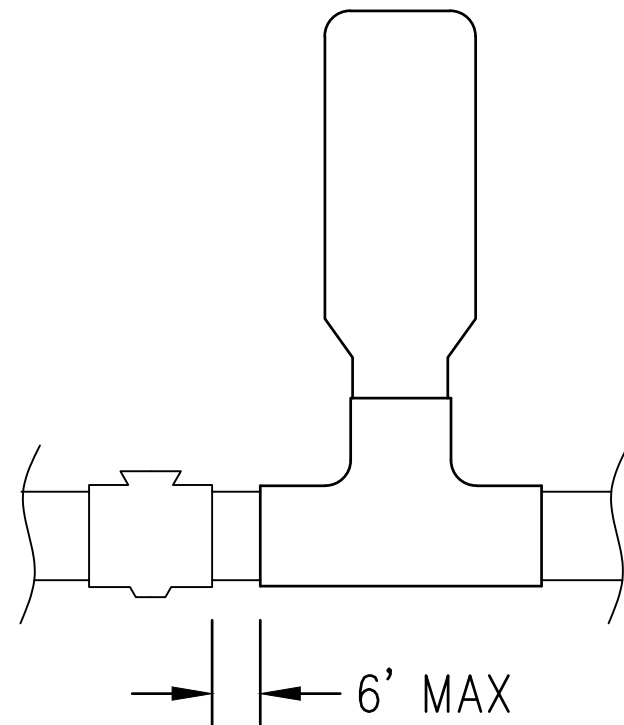
TYPICAL CONDENSATE DRAIN DETAIL

SCALE: N.T.S.



WATER PIPING INSULATION DETAIL IN CEILING JOISTS

SCALE: N.T.S.



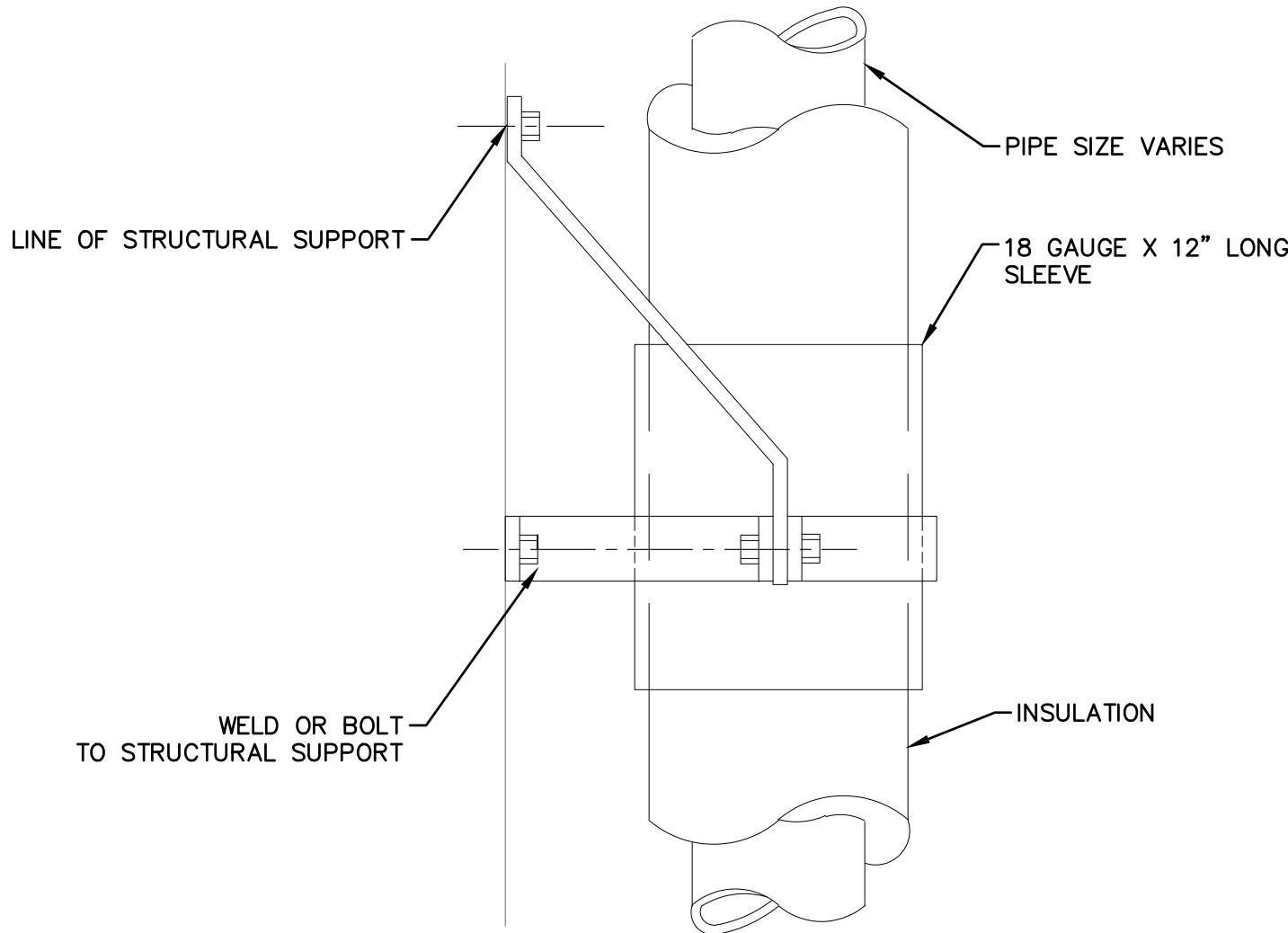
WATER HAMMER ARRESTOR SCHEDULE						
J.R. SMITH/HYDROTROL #	5005	5010	5020	5030	5040	5050
P.D.I. SYMBOLS	A	B	C	D	E	F
FIXTURE UNIT RATING	1-11	12-32	33-60	61-113	114-154	155-330

EXAMPLE:
COLD WATER BRANCH = 26 F.U. = JR. SMITH #5010 HYDROTROL
HOT WATER BRANCH = 6 F.U. = JR. SMITH #5005 HYDROTROL

NOTE:
WHEN HORIZONTAL BRANCH PIPING EXCEEDS 20' IN LENGTH, AN ADDITIONAL ARRESTOR SHALL BE USED.

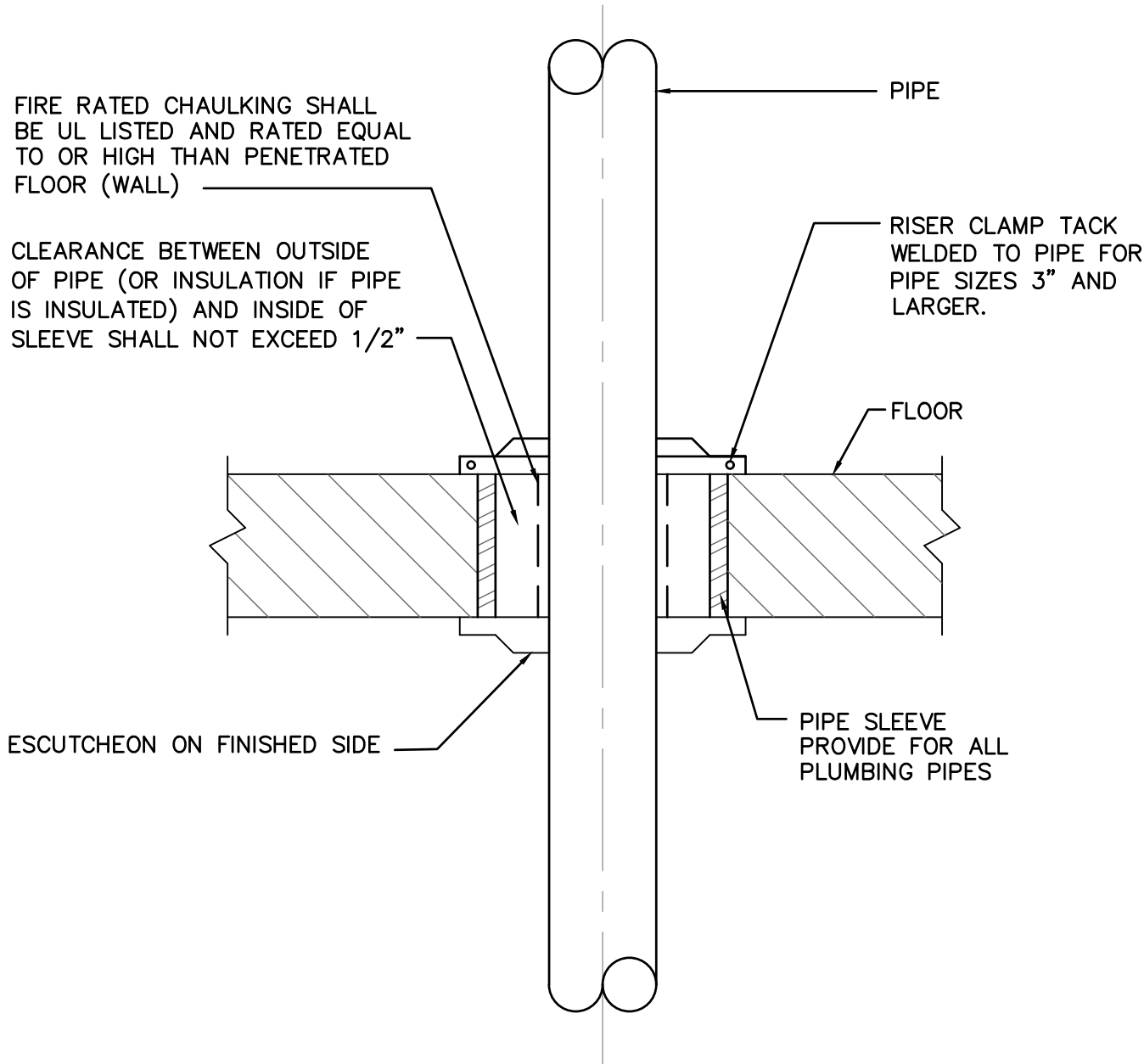
WATER HAMMER ARRESTOR INSTALLATION DETAIL

NOT TO SCALE



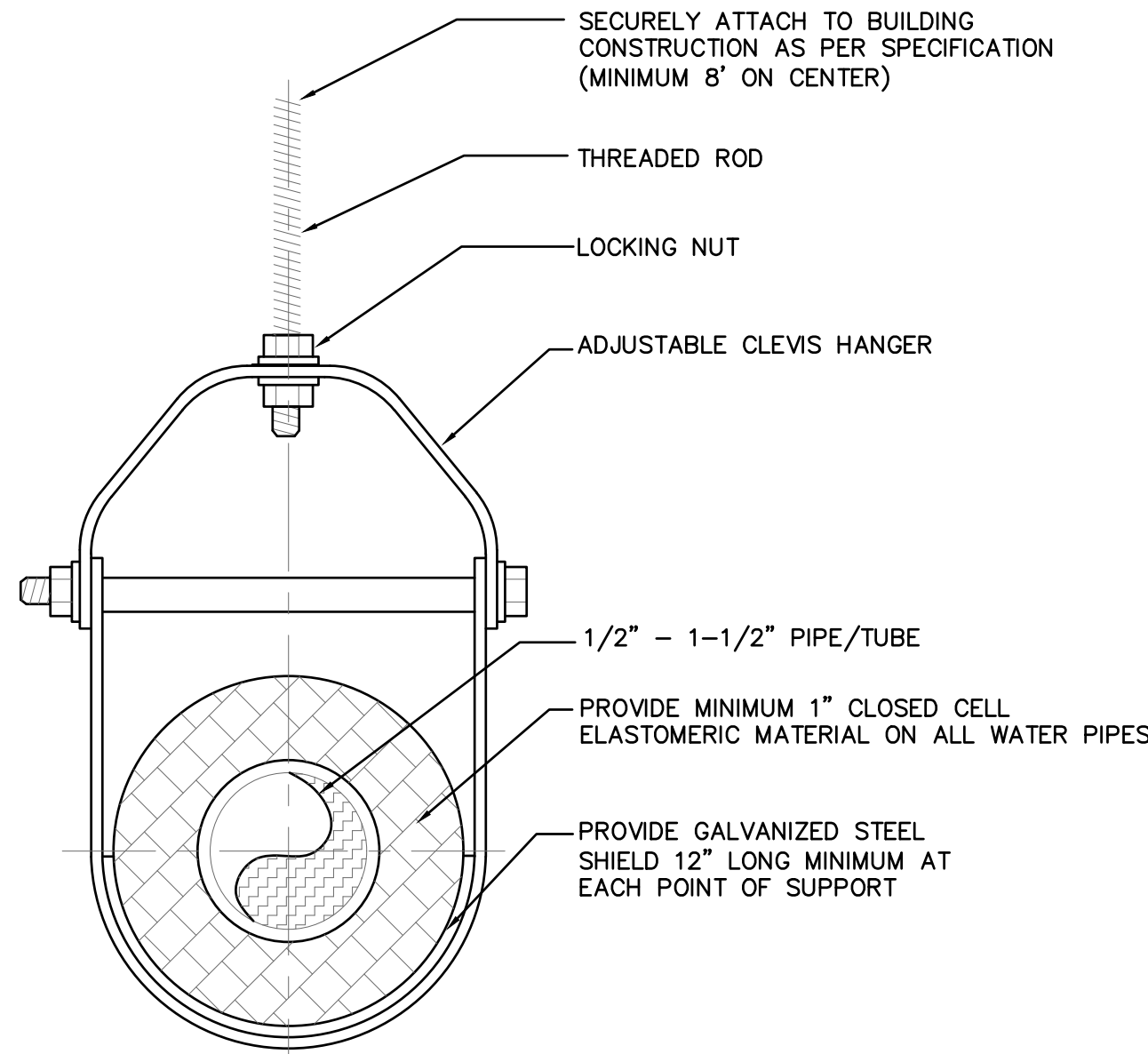
DETAIL OF VERTICAL PIPE GUIDE

SCALE: N.T.S.



PIPE PENETRATION DETAIL

SCALE: N.T.S.



NOTE: CLEVIS TYPE PIPE HANGER SHALL BE USED ON ALL PIPING 3" AND SMALLER.

HANGER ROD SCHEDULE		HANGER ROD SPACING	
PIPE SIZE	ROD SIZE	PIPE SIZE	MAX. ALLOWABLE SPACING
UP TO 2"	3/8" DIA.	1"	7'
2 1/2" THRU 3"	1/2" DIA.	1 1/4"	8'
		1 1/2"	9'
		2"	10'
		2 1/2"	10'
		3"	10'

CLEVIS HANGER DETAIL

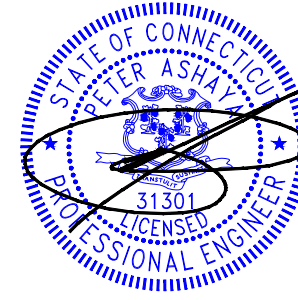
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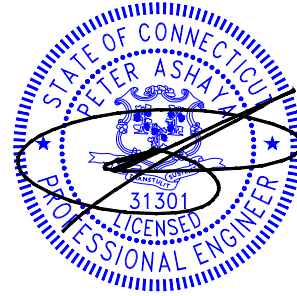
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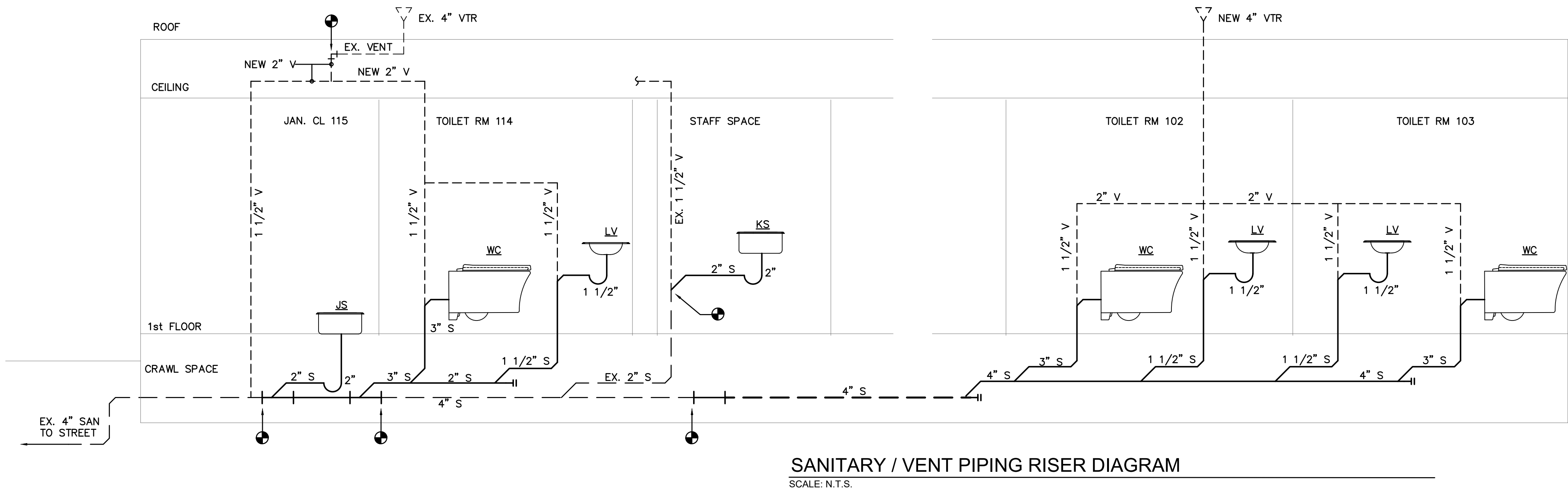
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PLUMBING
RISER DIAGRAMS

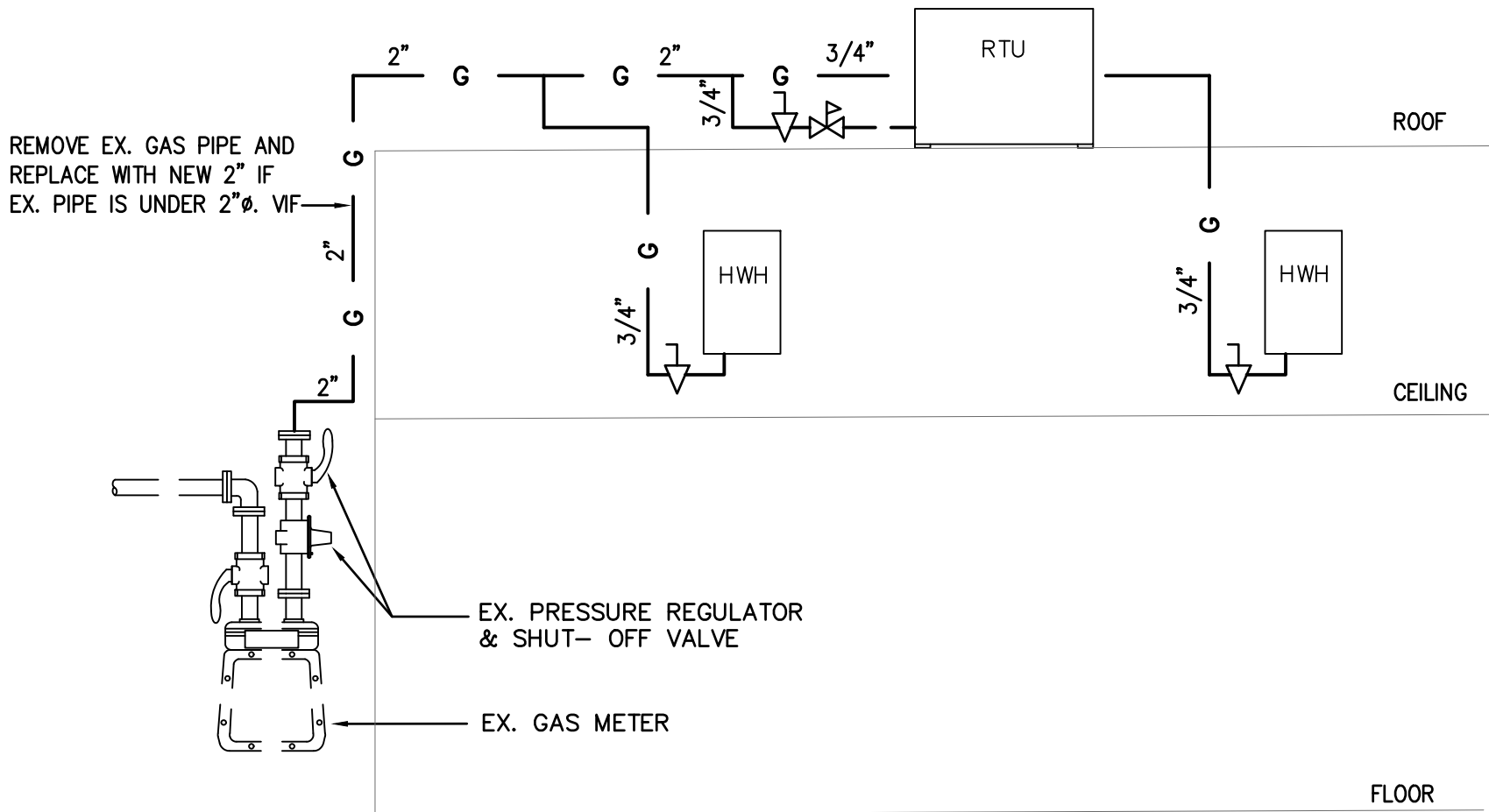
Sheet Number:

P-300



GAS PIPING NOTES:

1. THE PLUMBING CONTRACTOR SHALL VERIFY INCOMING GAS PRESSURE WITH GAS UTILITY COMPANY.
2. THE PLUMBING CONTRACTOR SHALL MEASURE AND VERIFY THE FOLLOWING CORRECT GAS PRESSURE AT EACH GAS-FIRED EQUIPMENT WHEN ALL ARE FIRING. INLET PRESSURE SHALL BE 7"-14" W.C. NATURAL GAS.
3. CONTRACTOR TO PROVIDE DIRT & CONDENSATE DRIP LEGS IN GAS PIPING AT ALL EQUIPMENT.
4. NO GAS PIPING SHALL PENETRATE ANY FIRE CHASE OR HVAC PLENUM OR DUCT WORK.
5. NATURAL GAS PIPING SHALL BE SCHEDULE 40, BLACK STEEL PIPING CONFORMING TO ASTM A53 OR A120. FITTINGS SHALL BE MALLEABLE IRON WITH THREADED CONNECTIONS CONFORMING TO ASTM B16.3.
6. PLUMBING CONTRACTOR SHALL FURNISH & INSTALL ALL GAS PIPING INCLUDING FINAL CONNECTIONS. COORDINATE WITH MECHANICAL CONTRACTORS FOR LOCATIONS AND CONNECTION DETAILS.
7. DO NOT PRESSURE CHECK GAS LINES WHEN HOOKED UP TO EQUIPMENT. (EXCESSIVE PRESSURE WILL DAMAGE GAS VALVES, PRESSURE REGULATORS AND MANUAL SHUTOFF VALVES.) FINAL LEAK TESTING FROM SHUTOFF TO EQUIPMENT TO BE DONE UNDER NORMAL PRESSURE WITH SOAP/WATER SOLUTION AFTER GAS PIPING IS CONNECTED.
8. ALL GAS PIPE SIZES AND FLOW CALCULATIONS ARE BASED UPON A NATURAL GAS QUALITY OF 1000 BTU PER CUBIC FT. OF GAS DELIVERED. PIPE SIZES AND FLOW CALCULATIONS MAY HAVE TO BE REVISED IF QUALITY VARIES SIGNIFICANTLY FROM THIS VALUE.
9. GAS PRESSURE REGULATOR SHALL BE SINGLE STAGE AND SUITABLE FOR NATURAL GAS. REGULATORS SHALL HAVE STEEL JACKET, CORROSION-RESISTANT COMPONENTS AND ELEVATION COMPENSATOR. END CONNECTIONS SHALL BE THREADED FOR REGULATORS 2" AND SMALLER.
10. GAS PIPING SHALL BE MARKED WITH AN APPROVED PERMANENT IDENTIFICATION PER SECTION 401.7 OF THE 2015 IFGC.
11. GAS PIPING SHALL BE BONDED IN ACCORDANCE WITH NFPA 70 NATIONAL ELECTRICAL CODE ARTICLE 250.104(B). PROVIDE BONDING CLAMPS FOR ALL STEEL NATURAL GAS PIPING FITTINGS AS REQUIRED. BONDING CLAMPS SHALL BE ATTACHED TO CSST FITTINGS OR TO A BLACK PIPE COMPONENT (PIPE OR FITTING) WITHIN THE GAS PIPING SYSTEM; THE CORRUGATED STAINLESS STEEL PORTION OF THE GAS PIPING SYSTEM SHALL NOT BE USED AS THE BONDING ATTACHMENT POINT.



GAS PIPE CONNECTION AND LOAD SCHEDULE			
NAME	LOCATION	LOAD IN CFH	PIPE CONNECTION
RTU	ROOF	150	3/4"
WATER HEATER	RM 114	180	3/4"
WATER HEATER	RM 103	180	3/4"
LENGTH: 250'		TOTAL CFH: 510	PIPE SIZE: 2"
NOTES: PROVIDE PRV AND SHUT-OFF VALVE ON ALL GAS-FIRED EQUIPMENT.			

GAS PIPING RISER DIAGRAM
SCALE: N.T.S.

PLUMBING SPECIFICATIONS

PART 1. GENERAL

1.1 REQUIREMENTS

- A. THE PLUMBING CONTRACTOR SHALL BE A LICENSED, AUTHORIZED INSTALLER OF PLUMBING SYSTEMS AND SHALL HAVE HAD A MINIMUM OF FIVE YEARS EXPERIENCE IN THE INSTALLATION OF COMMERCIAL PLUMBING CONSTRUCTION.
- B. BEFORE SUBMITTING HIS BID, THE PLUMBING CONTRACTOR SHALL VISIT THE SITE AND SHALL FULLY FAMILIARIZE HIMSELF WITH THE EXISTING PIPING AND LAYOUT OF THE EXISTING BUILDING STRUCTURE. CONTRACTOR SHALL PERFORM THIS PRIOR TO SUBMITTING HIS PROPOSAL. SUBMISSION OF A PROPOSAL SHALL BE CONSTRUED AS EVIDENCE THAT SUCH AN EXAMINATION HAS BEEN MADE, AND LATER CLAIMS WILL NOT BE RECOGNIZED FOR EXTRA LABOR, EQUIPMENT OR MATERIALS REQUIRED BECAUSE OF DIFFICULTIES ENCOUNTERED WHICH COULD HAVE BEEN FORESEEN HAD SUCH AN EXAMINATION BEEN MADE.
- C. UPON REVIEW OF PLUMBING DRAWINGS, PRIOR TO SUBMITTING HIS PROPOSAL, THE PLUMBING CONTRACTOR SHALL INFORM THE ARCHITECT AND/OR ENGINEER OF ANY DISCREPANCIES OR REQUEST CLARIFICATION IN WRITING, IF NECESSARY, CONCERNING THE INTENT OF THE PLANS AND SPECIFICATIONS TO PROVIDE A COMPLETE PLUMBING INSTALLATION. LATER CLAIMS WILL NOT BE RECOGNIZED FOR EXTRA LABOR, EQUIPMENT OR MATERIALS SHOULD SUCH PROCEDURE NOT BE FOLLOWED.
- D. THE SCHEDULING OF THE PLUMBING WORK SHALL BE COORDINATED WITH THE BUILDING OWNER, THE OTHER CONTRACTORS AND THE CLIENT.
- E. BUILDING SERVICES SHALL BE MAINTAINED WHILE WORK IS BEING INSTALLED.
- F. NECESSARY SHUT-DOWNS OF BASE BUILDING PLUMBING SYSTEM MUST BE COORDINATED WITH THE BUILDING OWNER AND CLIENT. SHUT-DOWNS OF BASE BUILDINGS SYSTEMS SHALL TAKE PLACE AFTER OR BEFORE NORMAL BUSINESS HOURS AND SHALL BE CONSIDERED OVERTIME WORK.

1.2 SCOPE OF WORK

- A. PROVIDE MATERIALS, LABOR, EQUIPMENT AND SERVICES NECESSARY TO FURNISH, DELIVER AND INSTALL ALL WORK SHOWN ON DRAWING AND SPECIFIED HEREIN AND/OR REQUIRED BY JOB CONDITIONS.
- B. INSTALL COLD WATER, HOT WATER, SANITARY AND VENT PIPING TO FIXTURES AS SPECIFIED BY ARCHITECT AND SHOWN HEREIN. MODIFY EXISTING SERVICES AS REQUIRED. REFER TO ARCHITECTURAL DRAWINGS FOR FIXTURE TYPES AND EQUIPMENT SUPPLIED BY OTHERS.
- C. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS. ALL WORK REQUIRED TO ACCOMMODATE EXISTING CONDITIONS SHALL BE INCLUDED IN SCOPE. THE CONTRACTOR SHALL VERIFY SIZES AND LOCATIONS OF ALL EXISTING PIPING.
- D. THE CONTRACTOR SHALL PERFORM ALL CUTTING, DEMOLISHING, REMOVAL, DISPOSAL, PATCHING, SEALING, RESTORATION AND ALL ELSE REQUIRED TO COMPLETE THE PLUMBING INSTALLATION. ACCURATELY LAY OUT WORK FOR WHICH CUTTING IS REQUIRED, SO AS TO AVOID UNNECESSARY LARGE OPENINGS. CUTTING OF BEAMS, JOIST, FLOORS OR WALLS OF THE BUILDING WILL NOT BE PERMITTED EXCEPT AFTER RECEIVING APPROVAL OF THE BUILDING OWNER.
- E. CONTRACTOR SHALL INFORM ENGINEER IMMEDIATELY UPON DISCOVERY OF ANY ASBESTOS OR OTHER HAZARDOUS MATERIAL THAT WILL BE DISTURBED DUE TO THIS WORK.
- F. ALL WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH THE LATEST EDITION OF THE STATE & LOCAL BUILDING CODES, THE CONSTRUCTION POLICIES AND GENERAL BUILDING RULES OF THE BUILDING OWNER INCLUDING, BUT NOT LIMITED TO, USE OF ELEVATOR, DUMPSTER, DRILLING, AND WORK WITHIN OTHER TENANT'S SPACE, ETC, AND ALL OTHER AUTHORITIES HAVING JURISDICTION. UNLESS OTHERWISE SPECIFIED, THE MOST RECENT VERSIONS OF THE FOLLOWING CODES AND STANDARDS APPLY AND ARE MADE A PART OF THIS SPECIFICATIONS:
- a. INTERNATIONAL CODE COUNCIL (ICC)
 - b. CONNECTICUT STATE CODES
 - c. AMERICAN SOCIETY OF MECHANICAL ENGINEERS (ASME)
 - d. AMERICAN NATIONAL STANDARD INSTITUTE (ANSI)
 - e. AMERICAN WELDING SOCIETY (AWS)
 - f. AMERICAN SOCIETY OF TESTING AND MATERIAL (ASTM)
 - g. AMERICAN WATER WORKS ASSOCIATION (AWWA)
 - h. CAST IRON SOIL PIPE INSTITUTE (CISPI)
 - i. NSF INTERNATIONAL (NSF)
 - j. UNDERWRITERS LABORATORIES (UL)
- F. COORDINATE WORK WITH THE EXISTING CONDITIONS AND THE WORK OF ELECTRICAL, MECHANICAL AND GENERAL CONTRACTORS.
- G. THESE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL LOCATION OF WORK. SCALED DIMENSIONS SHALL NOT BE USED. ANY DIMENSIONS NOT SHOWN SHALL BE OBTAINED FROM THE ARCHITECTURAL DRAWINGS. FOR EXACT LOCATIONS, MOUNTING HEIGHTS, ETC., REFER TO ARCHITECTURAL DRAWINGS AND DETAILS. ALL LOCATIONS, CONNECTIONS AND DIMENSIONS SHALL BE FIELD VERIFIED.
- H. PROPERLY REMOVE AND DISPOSE OF ALL PLUMBING DEMOLITION MATERIALS FROM SITE.
- I. CONTRACTOR SHALL NOTIFY OWNER'S REPRESENTATIVE IF HE ENCOUNTERS ANY MATERIAL SUSPECTED OF CONTAINING ASBESTOS.

1.3 SHOP DRAWINGS AND SUBMITTALS

- A. SHOP DRAWINGS OF THE FOLLOWING (5 COPIES) SHALL BE SUBMITTED TO THE OWNER PROJECT REPRESENTATIVE FOR APPROVAL PRIOR TO INSTALLATION:
- 1. PIPING MATERIALS, JOINTS AND FITTINGS.
 - 2. PLUMBING FIXTURES, SUPPORTS AND TRIM.
 - 3. VALVES.
 - 4. DIMENSIONAL PIPING LAYOUT, COORDINATED WITH ALL OTHER TRADES.
 - 5. VALVE TAGS AND NAME PLATES WITH SCHEDULE AND LOCATION.
 - 6. PIPE HANGERS
 - 7. EQUIPMENT AND MATERIALS SPECIFIED HEREIN UNDER SECTION 2.5
- B. REPRODUCIBLE RECORD DRAWINGS IN AUTOCAD FORMAT SHOWING ALL WORK SHALL BE SUBMITTED TO THE OWNER AT THE COMPLETION OF THE WORK.
- 1.4 BUILDING DEPARTMENT FILING, PERMITS AND CERTIFICATES
- A. THE PLUMBING CONTRACTOR SHALL FILE ALL REQUIRED DRAWINGS, SPECIFICATIONS AND DOCUMENTS REQUIRED WITH LOCAL AUTHORITIES TO OBTAIN ALL PERMITS AND APPROVALS.
- B. THE PLUMBING CONTRACTOR SHALL ARRANGE FOR INSPECTIONS AND TESTS OF ANY AND ALL PARTS OF THE WORK AS REQUIRED BY LOCAL AUTHORITIES AND BE RESPONSIBLE FOR OBTAINING FINAL APPROVALS.
- C. THE PLUMBING CONTRACTOR SHALL PAY ALL FEES, CHARGES AND TAXES REQUIRED TO OBTAIN PERMITS, INSPECTIONS AND CERTIFICATES.

PART 2. PRODUCTS

2.1 PIPE MATERIALS

- A. REFER TO SCHEDULE ON DWG. P001 FOR PIPE MATERIALS.

B. GAS PIPING:

1. ALL GAS PIPING SHALL BE CSST AND SHALL BE LISTED BY CSA INTERNATIONAL TO THE PERFORMANCE REQUIREMENTS OF ANSI LC 1 / CSA 6.26. THE CONDUCTIVE JACKET SHALL MEET THE REQUIREMENTS OF ANSI LC 1 / CSA 6.26, PART 5.16.
2. PIPING: CSST TUBING SHALL BE 300 SERIES STAINLESS STEEL STRIP CONFORMING TO ASTM A240 RATED FOR25 PSI AND HAVE AN ELEVATED PRESSURE RATING OF 125G FOR SIZES UP TO 1 1/4" AND 25G FOR 1 1/2" AND 2". TUBING SHALL NOT BE SUBJECTED TO HEAT TREATING OR ANNEALING AFTER THE CORRUGATION FORMING OPERATION.
3. JACKET: CSST JACKET SHALL BE AN EXTRUDED FIRE-- RETARDED ENGINEERED POLYMER. CONDUCTIVE JACKET SHALLCONFORM TO ASTM E--84 (UL723) FLAME SPREAD RATING NOT TO EXCEED 25 AND ASTM E--84 (UL723)SMOKE DENSITY RATING SHALL NOT EXCEED 50.
4. FITTINGS: CSST FITTINGS SHALL BE MADE OF YELLOW BRASS AND BE TESTED AND LISTED BY CSA INTERNATIONAL FOR USE IN CONCEALED LOCATIONS. BRASS FITTINGS SHALL NOT CONTAIN GASKETS OR O--RINGS TO FACILITATE THE SEAL BETWEEN THE TUBING AND THE FITTING.TERMINATION MOUNT FITTINGS ARE TO BE USED FOR THE TUBING AT ALL STUB--OUT POINTS.
5. REGULATORS: REGULATORS SHALL BE LISTED TO A RECOGNIZED NATIONAL STANDARD FOR PRESSURE REGULATORS. LINE PRESSURE REGULATORS LISTED TO ANSI Z21.80 AND EQUIPPED WITH A VENT LIMITER DO NOT REQUIRE A VENT LINE TO BE RUN OUTDOORS.
6. PROTECTION: STRIKER PLATES SHALL BE USED WHERE NECESSARY AND MARKED WITH THE SYMBOL OF THE MANUFACTURER AND CSA INTERNATIONAL. STRIKER PLATES SHALL BE MADE FROM CARBON STEEL, HEAT TREATED TO >RB75 AND <RB85.
7. IDENTIFICATION: CSST SHALL BE MARKED WITH THE MANUFACTURER'S NAME OR SYMBOL, APPROVING AGENCIES, PRESSURE RATING AND MANUFACTURING DATE CODE. THE PIPING SYSTEM SHALL BE MARKED BY THE MANUFACTURER WITH THE WORD "GAS" IN BLACK LETTERS EVERY TWO FEET.
8. ELECTRICAL BONDING: FLEXIBLE GAS PIPING SHALL BE BONDED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE NFPA 70 ARTICLE 250.104 AND THE NATIONAL GAS CODE NFPA 54.
9. SEISMIC PERFORMANCE: CSST FLEXIBLE GAS PIPING MUST BE LISTED BY ICC FOR SEISMIC PERFORMANCE.
- C. ALL EXPOSED PIPING SHALL BE CHROME PLATED CAST BRASS.
- 2.2 VALVES
- VALVES
- A. CHECK VALVES: 2 INCHES AND SMALLER: MSS SP 80, CLASS 300, BRONZE BODY AND CAP, BRONZE SEAT, BRASS DISC, SOLDER ENDS, MILWAUKEE VALVE CO. MODEL # 1509.
- B. BALL VALVES: 2 INCHES AND SMALLER: MSS SP 110, 600 PSI WOG, TWO PIECE BRONZE BODY, LEAD FREE, TYPE 316 STAINLESS STEEL BALL, FULL PORT, TEFLON SEATS, STAINLESS STEEL BLOW-OUT PROOF STEM, SOLDER ENDS WITH LEVER HANDLE, MILWAUKEE VALVE COMPANY MODEL #UPBA450S.
- C. GATE VALVES: 2 INCHES AND SMALLER: MSS SP 80, CLASS 300, BRONZE BODY, BRONZE TRIM, LEAD FREE, THREADED BONNET, NON-RISING STEM, HAND--WHEEL, INSIDE SCREW, SOLID WEDGE DISC, SOLDER ENDS, MILWAUKEE VALVE COMPANY MODEL # UP115.
- D. THERMOSTATIC MIXING VALVE: TEMP CONTROL THERMOSTATIC CONTROLLER WITH SWIVEL ACTION CHECK STOPS, REMOVABLE CARTRIDGE WITH STRAINER, STAINLESS STEEL PISTON AND LIQUID FILLED MOTOR WITH BELLOWS MOUNTED OUT OF WATER, ROUGH BRASS FINISH
- E. REDUCED PRESSURE BACKFLOW PREVENTERS: ANSI/ASSE 1013, AWWA C506; TWO INDEPENDENTLY OPERATING, SPRING LOADED CHECK VALVES; DIAPHRAGM TYPE DIFFERENTIAL PRESSURE RELIEF VALVE LOCATED BETWEEN CHECK VALVES; TEST COCKS, WATTS 909 OR EQUAL.
- F. PLUG VALVES: 2 INCHES AND SMALLER: MSS SP 78, CLASS 300, SEMI--STEEL CONSTRUCTION, RECTANGULAR PORT, FULL PIPE AREA, PRESSURE LUBRICATED, TEFLON PACKING, THREADED ENDS. FURNISH ONE PLUG VALVE WRENCH FOR EVERY TEN PLUG--VALVES WITH MINIMUM OF ONE WRENCH.
- G. PLUG VALVES 2--1/2 INCHES AND LARGER: MSS SP 78, CLASS 300, SEMI--STEEL CONSTRUCTION, RECTANGULAR PORT, FULL PIPE AREA, PRESSURE LUBRICATED, TEFLON PACKING, FLANGED ENDS. FURNISH WRENCH--OPERATED.
- H. ALL VALVES AND SPECIALTIES SHALL BE SO PLACED AS TO PERMIT EASY OPERATION AND ACCESS. PROVIDE ACCESS DOOR FOR ALL VALVES LOCATED ABOVE INACCESSIBLE CEILINGS.
- I. ACCESS DOOR SHALL BE 20 GAUGE GALVANIZED FORMED DOOR PANEL, 26 GAUGE GALVANIZED FRAME AND SIZED ACCORDINGLY. DOOR SHALL HAVE CONCEALED HINGE AND SCREWDRIVER SLOT CAM LATCH. DOOR SHALL HAVE BAKED--ON POWDER COAT FINISH. DOOR SHALL BE ACUDOR MODEL DW--5040 OR APPROVED EQUAL. ACCESS DOORS LOCATED IN FIRE RATED CEILINGS SHALL BE ACUDOR FW--5050--DW OR APPROVED EQUAL.
- J. ALL DOMESTIC SERVICE VALVES SHALL BE LEAD--FREE, 2 PIECE FULL PORT 600 PSI BRONZE BALL VALVES WITH REINFORCED RTFE SEATS, CHROME PLATED BRASS BALL, BRASS STEM AND LEVER HANDLE WITH SOLDER OR THREADED ENDS. PROVIDE 3" STEM EXTENSIONS ON VALVES LOCATED ON INSULATED PIPES. CONFORMS TO MS--SP--110, NSF/ANSI 61 AND NSF/ANSI 372.
- K. WATER STOPS, SUPPLIES, P--TRAPS, DRAINS AND STRAINER AND ALL EXPOSED PIPING FOR FIXTURES SHALL BE CHROME PLATED CAST BRASS, AS MANUFACTURED BY MCGUIRE.
- L. ALL COLD AND HOT WATER CONNECTIONS TO FIXTURES SHALL HAVE WATER HAMMER ARRESTORS. ANSI A112.26.1; WROUGHT COPPER SHELL AND HYDRO--PNEUMATIC CUSHION AND TRIPLE O--RING SEALED PISTON. JOSAM 75002--S SERIES.
- M. TRAP PRIMER SHALL BE PISTON OPERATED AND MACHINED BRASS. MODEL P2--500 AS MANUFACTURED BY PPP, INC. TRAP PRIMER SHALL BE INSTALLED AT 12" AFF (MINIMUM).
- N. LEAD FREE DOUBLE CHECK VALVE SHALL BE COPPER SILICON ALLOY CONSTRUCTION AND SHALL BE FURNISHED WITH DOUBLE UNIONS. ASSE 1024, MODEL LF7R AS MANUFACTURED BY WATTS REGULATOR COMPANY. DCV SHALL BE INSTALLED ON ALL PANTRY EQUIPMENT REQUIRING A CW SUPPLY CONNECTION.

- D. THERMOSTATIC MIXING VALVE: TEMP CONTROL THERMOSTATIC CONTROLLER WITH SWIVEL ACTION CHECK STOPS, REMOVABLE CARTRIDGE WITH STRAINER, STAINLESS STEEL PISTON AND LIQUID FILLED MOTOR WITH BELLOWS MOUNTED OUT OF WATER, ROUGH BRASS FINISH
- E. REDUCED PRESSURE BACKFLOW PREVENTERS: ANSI/ASSE 1013, AWWA C506; TWO INDEPENDENTLY OPERATING, SPRING LOADED CHECK VALVES; DIAPHRAGM TYPE DIFFERENTIAL PRESSURE RELIEF VALVE LOCATED BETWEEN CHECK VALVES; TEST COCKS, WATTS 909 OR EQUAL.
- F. PLUG VALVES: 2 INCHES AND SMALLER: MSS SP 78, CLASS 300, SEMI--STEEL CONSTRUCTION, RECTANGULAR PORT, FULL PIPE AREA, PRESSURE LUBRICATED, TEFLON PACKING, THREADED ENDS. FURNISH ONE PLUG VALVE WRENCH FOR EVERY TEN PLUG--VALVES WITH MINIMUM OF ONE WRENCH.
- G. PLUG VALVES 2--1/2 INCHES AND LARGER: MSS SP 78, CLASS 300, SEMI--STEEL CONSTRUCTION, RECTANGULAR PORT, FULL PIPE AREA, PRESSURE LUBRICATED, TEFLON PACKING, FLANGED ENDS. FURNISH WRENCH--OPERATED.
- H. ALL VALVES AND SPECIALTIES SHALL BE SO PLACED AS TO PERMIT EASY OPERATION AND ACCESS. PROVIDE ACCESS DOOR FOR ALL VALVES LOCATED ABOVE INACCESSIBLE CEILINGS.
- I. ACCESS DOOR SHALL BE 20 GAUGE GALVANIZED FORMED DOOR PANEL, 26 GAUGE GALVANIZED FRAME AND SIZED ACCORDINGLY. DOOR SHALL HAVE CONCEALED HINGE AND SCREWDRIVER SLOT CAM LATCH. DOOR SHALL HAVE BAKED--ON POWDER COAT FINISH. DOOR SHALL BE ACUDOR MODEL DW--5040 OR APPROVED EQUAL. ACCESS DOORS LOCATED IN FIRE RATED CEILINGS SHALL BE ACUDOR FW--5050--DW OR APPROVED EQUAL.
- J. ALL DOMESTIC SERVICE VALVES SHALL BE LEAD--FREE, 2 PIECE FULL PORT 600 PSI BRONZE BALL VALVES WITH REINFORCED RTFE SEATS, CHROME PLATED BRASS BALL, BRASS STEM AND LEVER HANDLE WITH SOLDER OR THREADED ENDS. PROVIDE 3" STEM EXTENSIONS ON VALVES LOCATED ON INSULATED PIPES. CONFORMS TO MS--SP--110, NSF/ANSI 61 AND NSF/ANSI 372.
- K. WATER STOPS, SUPPLIES, P--TRAPS, DRAINS AND STRAINER AND ALL EXPOSED PIPING FOR FIXTURES SHALL BE CHROME PLATED CAST BRASS, AS MANUFACTURED BY MCGUIRE.
- L. ALL COLD AND HOT WATER CONNECTIONS TO FIXTURES SHALL HAVE WATER HAMMER ARRESTORS. ANSI A112.26.1; WROUGHT COPPER SHELL AND HYDRO--PNEUMATIC CUSHION AND TRIPLE O--RING SEALED PISTON. JOSAM 75002--S SERIES.
- M. TRAP PRIMER SHALL BE PISTON OPERATED AND MACHINED BRASS. MODEL P2--500 AS MANUFACTURED BY PPP, INC. TRAP PRIMER SHALL BE INSTALLED AT 12" AFF (MINIMUM).
- N. LEAD FREE DOUBLE CHECK VALVE SHALL BE COPPER SILICON ALLOY CONSTRUCTION AND SHALL BE FURNISHED WITH DOUBLE UNIONS. ASSE 1024, MODEL LF7R AS MANUFACTURED BY WATTS REGULATOR COMPANY. DCV SHALL BE INSTALLED ON ALL PANTRY EQUIPMENT REQUIRING A CW SUPPLY CONNECTION.

2.3 INSULATION

- A. ALL HOT AND COLD WATER AND HORIZONTAL STORM PIPING SHALL BE INSULATED WITH 1" PREMOLDED 2 PIECE 3.5 LB HEAVY DENSITY FIBERGLASS PIPE INSULATION, UL RATED NON--COMBUSTIBLE WITH ALL SERVICE JACKET. ON VALVES AND FITTINGS USE 1" PREFORMED FIBERGLASS FITTING UNDER PVC FITTING COVERS AND SEAL PVC COVER SEAMS WITH 1" VAPOR BARRIER GLASS MESH ADHESIVE TAPE. SELF--SEALING LAP SHALL BE STAPLED AFTER SEALING AT 3" O.C. INTERVALS. INSULATION MATERIAL SHALL HAVE A FLAME SPREAD RATING OF 25 OR LESS AND A SMOKE DEVELOPED RATING OF 50 OR LESS AND FUEL CONTRIBUTION OF 50 OR LESS AS REQUIRED BY NFPA 255.

- B. INSULATE ALL COLD AND HOT WATER AND PVC PIPING IN RETURN AIR PLENUMS. PIPE COVERING AND INSULATION SHALL BE OWENS--CORNING, JOHNS--MANVILLE, KNAUFF OR APPROVED EQUAL 1/2" THICK MOLDED FIBERGLASS SECTIONAL PIPE INSULATION WITH FACTORY APPLIED VAPOR BARRIER JACKET. ALL RAW EDGES SHALL BE COATED WITH 30--35 SEALANT. FLANGES AND VALVES SHALL BE PROVIDED WITH OVERSIZED INSULATION AS REQUIRED. FITTINGS SHALL BE ONE PIECE FITTING COVERS WITH FIBERGLASS INSERTS RATED FOR 25/50 SMOKE AND FLAME GENERATION. GALVANIZED STEEL SHIELDS SHALL BE PROVIDED AT HANGERS AND INSULATION AND HANGERS SHALL BE NON--COMPRESSIBLE. ALL INSULATION SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- C. EXPOSED SUPPLY AND DRAIN PIPING LOCATED UNDER ADA FIXTURES SHALL BE INSULATED WITH ANTIMICROBIAL MOLDED VINYL UNDERSINK SAFETY COVERS. LAV--GUARD2 (BY TRU--BRO) OR APPROVED EQUAL.

2.4 HANGERS

- A. PROVIDE NECESSARY STRUCTURAL MEMBERS, HANGERS AND SUPPORTS OF APPROVED DESIGN AND IN COMPLIANCE WITH LOCAL AND STATE CODES THE STANDARDS OF THE ANSI MSS--SP--58 AND MSS--SP--69 TO KEEP PIPING IN PROPER ALIGNMENT AND PREVENT TRANSMISSION OF INJURIOUS THRUST AND VIBRATIONS. ALL HANGERS AND SUPPORTS SHALL BE CAPABLE OF SCREW ADJUSTMENT AFTER PIPING IS ERECTED. ALL HANGERS SHALL BE UL AND FM LISTED.ALL SPRINKLER PIPING SHALL BE SUBSTANTIALLY SUPPORTED AND SHALL COMPLY WITH THE STANDARDS OF THE NATIONAL FIRE PROTECTION ASSOCIATION FOR THE INSTALLATION OF SPRINKLER SYSTEMS AND AS REQUIRED BY LOCAL AND STATE CODES.
- B. HANGERS AND THEIR COMPONENTS SHALL BE CARBON STEEL. COPPER PIPE HANGERS SHALL BE COPPER PLATED. HANGERS SHALL BE ADJUSTABLE, FLAT IRON TYPE OR CLEVIS TYPE.

PIPE HANGER MATERIAL STANDARDS:

- BOLTING -- ASTM A307, GRADE A
CAST IRON -- ASTM A48, GRADE 30
FORGOINGS -- AST. A521, GRADE CA
MALLEABLE IRON -- ASTM A47, ASTM A197
STEEL -- ASTM A36, ASTM A569, ASTM A570
STEEL PIPE -- ASTM A53, ASTM A120
STEEL ROD -- ASTM A36, ASTM A575
- C. PIPING OR HANGERS SHALL BE SUBSTANTIALLY SUPPORTED FROM THE BUILDING STRUCTURE. COLD AND HOT WATER PIPING OR HANGERS MUST SUPPORT THE ADDED LOAD OF THE WATER PLUS A MINIMUM OF 250 LBS., APPLIED AT THE POINT OF HANGING.
- D. PIPING OR HANGERS SHALL NOT BE USED TO SUPPORT NON--SYSTEM COMPONENTS.
- E. PIPING SHALL BE SUPPORTED INDEPENDENTLY OF THE CEILING SHEATHING.
- F. WHEN PIPING IS INSTALLED BELOW DUCTWORK, PIPING SHALL BE SUBSTANTIALLY SUPPORTED FROM THE BUILDING'S STRUCTURE, NOT FROM THE DUCTWORK.
- G. HANGERS SHALL BE ANVL FIGURE NO. 69 OR EQUAL.
- H. PIPE RISER CLAMPS FOR VERTICAL PIPE SHALL BE ANVL FIG. 60.
- I. PIPE HANGERS SHALL BE SUMNER SYSTEM OR EQUAL.
- J. PIPING SHALL BE SUPPORTED AT THE FOLLOWING INTERVALS AND AS REQUIRED TO PREVENT SAGGING OR SWAYING:

1. CROSS--LINKED POLYETHYLENE (PEX) PIPING SUPPORTS, MAXIMUM SPACING:
- | PEX PIPING | HORIZONTAL
32 INCHES | VERTICAL
10 FEET |
|---|-------------------------|---------------------|
| FOR SIZES 2 INCHES AND SMALLER, A GUIDE SHALL BE INSTALLED MIDWAY BETWEEN REQUIRED VERTICAL SUPPORTS. SUCH GUIDES SHALL PREVENT PIPE MOVEMENT IN A DIRECTION PERPENDICULAR TO THE AXIS OF THE PIPE. | | |
2. POLYVINYL CHLORIDE (PVC) PIPING SUPPORTS, MAXIMUM SPACING:
- | PVC PIPING | HORIZONTAL
4 FEET | VERTICAL
10 FEET |
|--|----------------------|---------------------|
| FOR SIZES 2 INCHES AND SMALLER, A GUIDE SHALL BE INSTALLED MIDWAY BETWEEN REQUIRED VERTICAL SUPPORTS. SUCH GUIDES SHALL PREVENT PIPE MOVEMENT IN A DIRECTION PERPENDICULAR TO THE AXIS OF THE PIPE.CAST IRON PIPING SHALL BE SUPPORTED AT 5'--0" INTERVAL AND AT EACH CHANGE IN DIRECTION. | | |
| PIPING 1 1/4" AND SMALLER SHALL BE SUPPORTED AT 6'--0" INTERVALS. PIPING 1 1/2" AND LARGER SHALL BE SUPPORTED AT 10'--0" INTERVALS. | | |
- F. PROVIDE NEOPRENE PAD BETWEEN PIPE AND ANY CLAMPS OR BRACES ON ALL WATER SUPPLY ATTACHMENTS TO WALL STUDS TO PROVIDE RESILIENCY.
- G. PROVIDE RIGID INSULATION SADDLE AT ALL HANGER LOCATIONS FOR INSULATED PIPES. SADDLE SHALL BE A 180 DEGREE SECTION OF 1" POLYURETHANE FOAM, ALUMINUM FACED, WATERPROOF JACKET EXTENDING AROUND A 180 DEGREE SECTION OF GALVANIZED METAL SHIELD. SHIELD AND SADDLE SHALL BE BONED INTO A SINGLE UNIT. TOP SECTION OF INSULATION SHALL BE AS SPECIFIED HEREIN.

- H. ALL HANGERS AND CLAMPS FOR BARE COPPER PIPE OR TUBING SHALL BE COPPER CLAD.
- I. INSERTS FOR HANGERS SHALL BE DRILLED, NOT SHOT, INTO STRUCTURE.
- J. INSTALL SEISMIC MOUNTING AND BRACING ON ALL EQUIPMENT, PIPING, ETC. MOUNTING AND BRACING SHALL BE IN ACCORDANCE WITH STATE AND LOCAL REQUIREMENTS.

2.5 PIPING IDENTIFICATION

- A. CONSPICUOUSLY IDENTIFY NEW PIPING WITH SELF--ADHERING VINYL PLASTIC COLOR BANDS AND PIPE MARKERS IMPRINTED WITH LEGEND, BASED ON ANSO A13.1 "SCHEME FOR THE IDENTIFICATION OF PIPING SYSTEMS".
- B. APPLY LEGENDS TO FEED AND CROSS MAIN PIPING ADJACENT TO CHANGES IN DIRECTION WHERE PIPES PASS THROUGH WALLS OR FLOORS, AT INTERVALS NOT EXCEEDING 40 FEET IN STRAIGHT PIPING RUNS, AND ADJACENT TO CROSS MAIN CONNECTIONS WITH FEED MAIN.
- MINIMUM LETTER SIZE:
- 1/2" FOR PIPING 3/4" TO 1--1/4" OD
3/4" FOR PIPING 1--1/2" TO 2" OD
1--1/4" FOR PIPING 2--1/2" TO 6" OD
- MINIMUM COLOR BAND WIDTH:
- 8" FOR PIPING 3/4" TO 2" OD
12" FOR PIPING 2--1/2" TO 6" OD

2.6 IDENTIFICATION SIGNS

- A. PROVIDE ENAMELED STEEL IDENTIFICATION SIGNS FOR ALL NEW ALARM DEVICES AND ALL NEW CONTROL, DRAIN AND TEST VALVES.

2.7 EQUIPMENT

- A. REFER TO SCHEDULES ON DWG. P001

2.8 FIXTURES

- A. REFER TO ARCHITECTURAL SPECIFICATIONS FOR PLUMBING FIXTURES AND TRIM.
- B. CARRIERS FOR WALL HUNG WATER CLOSETS SHALL CONFORM TO ASME A112.6.1M. CARRIERS SHALL BE WATTS, MODELS ISCA, INDUSTRY STANDARD ADJUSTABLE CARRIERS. THIN WALL MODELS SHALL BE USED WHENEVER APPLICABLE, OR APPROVED EQUAL.
- C. CARRIERS FOR WALL HUNG LAVATORIES SHALL BE WATTS CA--431 FLOOR MOUNTED PLATE TYPE CARRIER OR CA--432 WALL MOUNTED CONCEALED ARMS ADJUSTABLE CARRIER OR APPROVED EQUAL. PROVIDE PROPER BLOCKING FOR WALL MOUNTED CARRIER.

PART 3. EXECUTION

3.1. INSTALLATION

- A. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR DELIVERY AND SAFE STORAGE OF THE REQUIRED MATERIALS AND EQUIPMENT. ANY MATERIALS AND EQUIPMENT DAMAGED DURING DELIVERY, STORAGE OR HANDLING SHALL BE REPLACED AT NO COST TO THE OWNER.
- B. CONTRACTOR SHALL PROVIDE NECESSARY CONNECTIONS TO FIXTURES.
- C. THIS CONTRACTOR SHALL THOROUGHLY BRUSH AND CLEAN UP WORK. REMOVE ALL DEBRIS FROM SITE. INTERIOR AND EXTERIOR OF NEW PIPING SHALL BE CLEANED OF DIRT, RUST, GREASE AND OTHER FOREIGN MATTER TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE OR ENGINEER.
1. THE INTERIOR OF THE PIPE SHALL BE CLEANED AS FOLLOWS: THE SYSTEM SHALL BE FLUSHED WITH CLEAN WATER UNTIL NO DIRTY WATER APPEARS AT POINTS OF OUTLET.
- D. PROVIDE AND INSTALL FIXTURES AS SPECIFIED BY ARCHITECT. MOUNTING HEIGHTS SHALL BE AS SPECIFIED BY ARCHITECT.
1. SET FIXTURES LEVEL AND SQUARE WITH RELATION TO FINISHED FLOOR AND WALL LINES.
2. PROVIDE ONE PIECE CAST BRASS CHROMIUM PLATED ESCUTCHEON WITH SET SCREWS.
3. SPACES BETWEEN PLUMBING FIXTURES, FLOORS, WALLS OR COUNTERS SHALL BE SEALED WITH A WATERPROOF SEALANT TO PREVENT WATER SEEPAGE.
- E. WHERE PIPE PENETRATES WALLS, PARTITIONS OR SLABS, PROVIDE SCHEDULE 40 GALVANIZED STEEL SLEEVES WITH AN INTERNAL DIAMETER AT LEAST 2 PIPE SIZES LARGER THAN OUTSIDE DIAMETER OF THE PIPE. SECURELY FASTEN SLEEVES AND GROUT WITH CEMENT. FLOOR SLEEVES SHALL PROJECT 1" ABOVE FINISHED FLOOR.
- F. ALL PIPE PENETRATIONS THROUGH NEW AND EXISTING STRUCTURE SHALL BE SEALED WITH SEALANT OF FIRE RETARDANT EQUAL IN RATING TO THE STRUCTURE PENETRATED. SEALANT SHALL EXTEND THE FULL THICKNESS OF STRUCTURE.
- G. ALL DRAINAGE PIPING SHALL BE INSTALLED RUN AT A UNIFORM GRADE OF AT LEAST 1/8" PER FOOT, UNLESS OTHERWISE INDICATED. RUN AS STRAIGHT AS POSSIBLE AND SHALL HAVE EASY BENDS WITH LONG TURN FITTINGS.
- H. PROVIDE DIELECTRIC FITTINGS AT THE JOINING OF ALL DISSIMILAR METALS.

3.2 TESTS AND INSPECTIONS

- A. THE PLUMBING SYSTEMS (WATER, WASTE & VENT, STORM AND GAS SYSTEMS) SHALL BE INSPECTED AND TESTED IN ACCORDANCE WITH THE REQUIREMENTS OF THE LOCAL AND STATE BUILDING CODES.
- B. ALL PIPING EXCEPT DRAINAGE PIPING, INCLUDING VALVES, FITTINGS AND JOINTS HYDROSTATICALLY AT A PRESSURE EQUAL TO 1--1/2 TIMES THE RATED PRESSURE, BUT NO LESS THAN 100 PSIG FOR A MINIMUM OF TWO HOURS. BLANK OFF OR REMOVE ALL ELEMENTS OR EQUIPMENT WHICH MAY BE DAMAGED BY THE PRESSURE. OPEN BUT DO NOT BACK--SEAL VALVES. INSPECT ALL JOINTS AND CONNECTIONS.TEST DRAINAGE PIPING HYDROSTATICALLY UNDER A 10 FOOT MINIMUM HEAD OF WATER WITH NO HEAD DROP FOR TWO HOURS OR IN ACCORDANCE WITH THE REQUIREMENTS OF THE AUTHORITIES HAVING JURISDICTION.
- C. REPAIR ALL LEAKS, DEFECTS OR DAMAGE REVEALED BY THE TESTING AND RE--TEST SYSTEM.
- D. CONTRACTOR SHALL BE RESPONSIBLE FOR ARRANGING AND COORDINATING PROGRESS TESTING AND INSPECTIONS WITH THE OWNER'S REPRESENTATIVE AND LOCAL PLUMBING INSPECTOR. A MINIMUM 72 HOURS NOTICE SHALL BE PROVIDED FOR THE INSPECTION.
- E. CONSTRUCTION SHALL BE SCHEDULED TO ALLOW REQUIRED PLUMBING INSPECTIONS TO TAKE PLACE. ROOFS, CEILINGS, EXTERIOR WALLS, INTERIOR WALLS, FLOORS, FOUNDATIONS, BASEMENTS AND ANY OTHER CONSTRUCTION SHALL NOT BE COVERED OR ENCLOSED UNTIL REQUIRED INSPECTIONS ARE COMPLETED AND THE LOCAL PLUMBING INSPECTOR INDICATES THAT SUCH COVERING OR ENCLOSURE MAY PROCEED.
- F. WHERE AN INSPECTION OR TEST FAILS, THE CORRECTION MUST BE MADE AT NO ADDITIONAL COST TO OWNER AND RE--INSPECTED BY THE PLUMBING INSPECTOR UNTIL IT COMPLIES.

3.3 WARRANTY

- A. THE CONTRACTOR SHALL WARRANTY ALL WORK FOR A PERIOD OF 12 MONTHS FROM FINAL ACCEPTANCE BY OWNER. DURING THIS WARRANTY PERIOD, CONTRACTOR SHALL RESPOND TO ALL CALLS FOR SERVICE AND REPAIRS REQUIRED BY THE OWNER. CONTRACTOR SHALL INSTALL ALL REPLACEMENT PARTS AND MATERIALS AT NO COST TO OWNER.

WATER AND GAS SERVICE NOTES

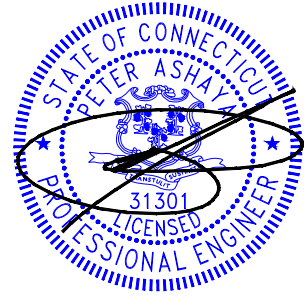
1. ALL GAS AND WATER SERVICE PIPING SHALL BE INSTALLED PER LOCAL, STATE AND NFPA CODES, AGA AND AWWA STANDARDS AND LOCAL UTILITY COMPANY SPECIFICATIONS.
2. ALL EXCAVATION AND BACKFILL REQUIRED FOR THE INSTALLATION OF WATER AND GAS SERVICE SHALL BE PERFORMED BY THE SITE CONTRACTOR. COORDINATE SCHEDULE IN FIELD WITH SITE CONTRACTOR.
3. ALL WATER PIPING SHALL BE BURIED A MIN. DEPTH OF 3'-- 6" OR AS PER LOCAL CODE.
4. GAS SERVICE PIPING FROM THE MAIN TO THE METER SHALL BE PROVIDED BY THE LOCAL GAS UTILITY CO., FROM THE METER TO BUILDING DISTRIBUTION SYSTEM SHALL BE PROVIDED BY THE PLUMBING CONTRACTOR.
5. ALL CHARGES, FEES, ETC. REQUESTED BY THE LOCAL GAS UTILITY CO. FOR THE INSTALLATION OF THE GAS SERVICE SHALL BE PAID FOR BY THE PLUMBING CONTRACTOR.
6. ALL CHARGES, FEES, ETC. REQUESTED BY LOCAL WATER UTILITY COMPANY FOR THE INSTALLATION OF THE WATER SERVICE SHALL BE PAID FOR BY THE PLUMBING CONTRACTOR.
7. WATER METER SHALL BE INSTALLED IN ACCORDANCE WITH STATE AND LOCAL CODES AND LOCAL WATER UTILITY COMPANY SPECIFICATIONS. A SERVICE PIPE SIZE BUILDING SHUT--OFF VALVE SHALL BE PROVIDED AND INSTALLED BY PLUMBING CONTRACTOR DIRECTLY INSIDE BUILDING, PRIOR TO METER.
8. A WATER COMPANY APPROVED BACKFLOW PREVENTION DEVICE SHALL BE PROVIDED AND INSTALLED BY PLUMBING CONTRACTOR. DEVICE SHALL BE INSTALLED ON WATER PIPE DIRECTLY AFTER METER. PLUMBING CONTRACTOR SHALL PROVIDE ALL REQUIRED INDIRECT DRAINAGE ASSOCIATED WITH BFD. INDIRECT DRAIN TERMINATION SHALL BE VIA ADEQUATELY SIZED BUILDING FLOOR DRAIN OR PIPE DRAIN TO EXTERIOR, 12" ABOVE GRADE.
9. PLUMBING CONTRACTOR SHALL SCHEDULE ALL REQUIRED INSPECTIONS FOR UTILITY SERVICES AND PROVIDE RESULTS TO OWNER REPRESENTATIVE. ALL FAILED INSPECTIONS SHALL BE CORRECTED BY CONTRACTOR AT NO ADDITIONAL COST TO OWNER.



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#	Description	Date

Project Location:

Wellness Center

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Westport, CT 06880

Project Number	26-01071
Designed By	PM
Checked By	PA

Issued for:

PERMIT

Sheet Title:

PLUMBING
SPECIFICATIONS

Sheet Number:

P-400