LAVATORY LONG/LENGTH

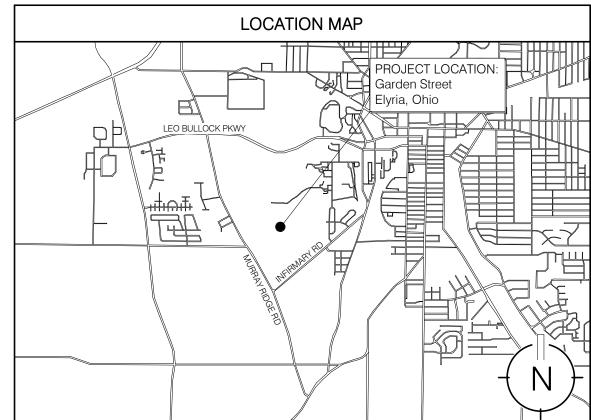
LEFT HAND

PROJECT DESCRIPTION

Public Safety Training Facility Range Building

City of Elyria

Garden Street Elyria, Ohio 44035 For Construction



PROJECT DESCRIPTION

The Scope of Work proposed as a part of this submittal includes a single-story range building with ammunition storage, weapons cleaning, offices, classrooms, multi-purpose space.

GENERAL PROJECT NOTES

The work shall conform to all applicable local, state, and national codes. Field verify existing conditions prior to performing any demolition, fabrication, or

construction work.

- Dimensions are to finished surfaces (not rough framing) except where noted
- All dimensions and elevations noted as "(REF)" are for reference only and shall be field verified by the contractor prior to using them for any demolition, or construction
- Contractor shall review and become familiar with all existing conditions prior to commencing work. Any conditions not documented on these drawings or observed to be different than those shown on these drawings are to be reported to the architect / engineer and owner prior to commencing the work.
- Contractor shall submit all not already submitted permit documents, qualifications, etc. and be responsible for all fees associated with permits, utility extensions, tapinspections, etc. The architect/engineer shall submit construction documents for owner's review and permit plan review; however, the contractor will be responsible for obtaining the permits, and all associated permit and inspection costs / fees. The contractor shall be responsible for removal of all debris resulting from
- construction work on this project.
- All contractors are responsible for familiarizing themselves with the entire set of contract documents. Trades work may be shown in various locations on various sheets of the drawing set.
- Hazardous materials in the work area will be abated by the owner prior to construction. If a contractor encounters any materials believed to be hazardous, immediately stop work and notify the owner, general contractor, and architect. Do not resume work in the area in question until the area has been properly assessed.
- Fire suppression contractors shall provide certified fire suppression drawings and hydraulic calculations to the authority having jurisdiction. The local fire official shall have the opportunity to review the construction documents.

SHEET NUMBER	SHEET NAME	SHEET ISSUE DATE	CURRENT REVISION
T1.00	Title Sheet	11.07.2024	А
G1.00	Code Compliance and Energy Compliance	11.07.2024	А
G1.01	Life Safety Plan	11.07.2024	А
G2.00	Phase One Site Plan	11.07.2024	А
A0.00	Typical Wall Assemblies	11.07.2024	А
A1.00	Floor Plan	11.07.2024	А
A1.10	Reflected Ceiling Plan	11.07.2024	А
A1.11	Finish Floor Plan	11.07.2024	А
A1.20	Enlarged Floor Plans	11.07.2024	А
A2.00	Roof Plan	11.07.2024	А
A3.00	Exterior Elevations	11.07.2024	А
A4.00	Building Sections	11.07.2024	Α
A5.00	Wall Sections	11.07.2024	А
A6.00	Interior Elevations	11.07.2024	Α
A7.01	Details	09.26.2024	
A7.02	Details	09.26.2024	
A7.03	Details	11.07.2024	Α
A8.00	Schedules	11.07.2024	А
S0.00	General Notes	09.26.2024	
S0.10	Diagrams & Schedules	09.26.2024	
S1.00	Foundation Plan	09.26.2024	
S1.20	Roof Framing Plan	09.26.2024	
S2.00	Foundation Details & Sections	09.26.2024	
S3.00	Framing Details & Sections	09.26.2024	
S5.00	Typical Masonry Details	09.26.2024	
P0.00	Plumbing Symbols, Notes & Abbreviations	09.26.2024	
P1.00	Below Ground Plumbing Plan	11.07.2024	А
P1.01	First Floor Plumbing Plan	11.07.2024	А
P2.00	Plumbing Details and Diagrams	09.26.2024	
P3.00	Plumbing Schedules	09.26.2024	
P4.00	Isometric Plumbing Plans	11.07.2024	А
M0.00	Mechanical Symbols, Notes & Abbreviations	11.07.2024	А
M1.01	First Floor Mechanical Plan	11.07.2024	А
M1.02	Roof Mechanical Plan	09.26.2024	
M2.00	Mechanical Details and Diagrams	09.26.2024	
M3.00	Mechanical Schedules	11.07.2024	А
E0.00	Electrical Symbols, Notes & Abbreviations	09.26.2024	
E0.01	Electrical Site Plan	09.26.2024	
E1.01	Lighting Plan	11.07.2024	А
E2.01	Power Plan	11.07.2024	Α
E3.01	Systems Plan	09.26.2024	
E5.00	Electrical Details and Diagrams	09.26.2024	
E6.00	Electrical One-Line Diagram & Panel Schedules	09.26.2024	

CIVIL STRUCTURAL MEP **ARCHITECT** CLIENT CONSTRUCTION MANAGER

City of Elyria 131 Court Street Elyria, Ohio 44035 Bill Forthofer wforthofer@cityofelyria.org 440-326-1444

CENTERLINE

DIAMETER

1101 Auburn Avenue Cleveland, Ohio 44113 Aaron Mitchell aaron@sixmocompanies.com 216 - 767 - 5400 (ext. 104)

Triumph 1101 Auburn Avenue Cleveland, Ohio 44113 Brandon Haberl bhaberl@triumphservices.com 216 - 767 - 5400 (ext. 114)

Sixmo Architecture 1101 Auburn Avenue Cleveland, Ohio 44113 Graham Post gpost@sixmoarchitecture.com 216-767-5400

COMPANY NAME (TO BE DETERMINED) STREET ADDRESS CITY, STATE ZIP **CONTACT NAME** PHONE NUMBER

City of Elyria 131 Court Street Elyria, Ohio 44035 Kathryn McKillips kmckillips@cityofelyria.org 440-326-1444

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City of Elyria

131 Court St - Suite 101 Elyria, Ohio 44035

Project:

Public Safety Training Facility Range Building

Elyria, Ohio 44035

Revisions:

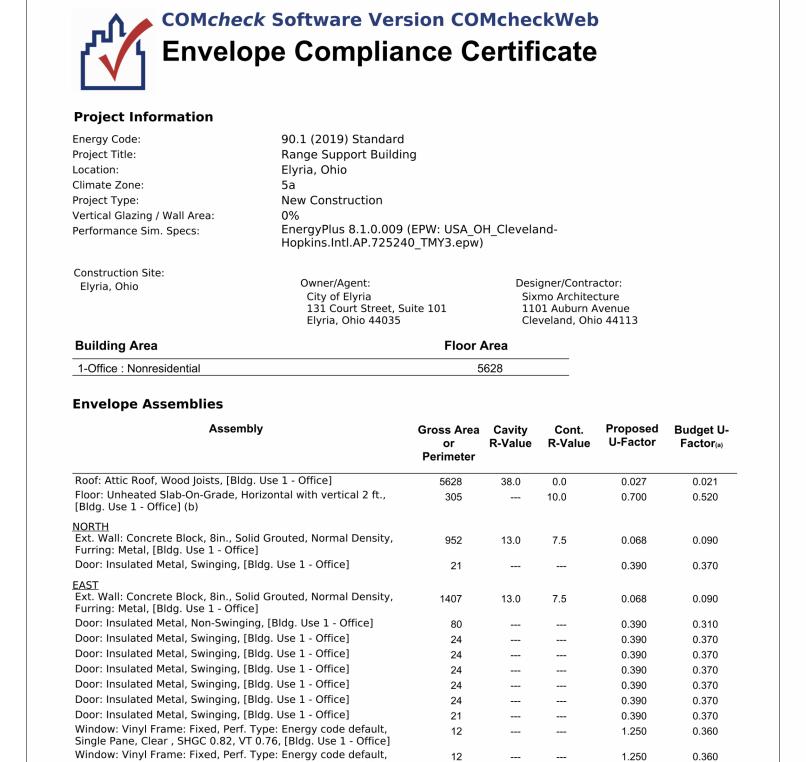
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Title Sheet

Applicable Codes: B - Business Actual Area: Table 508.4.

CODE COMPLIANCE 2024 Ohio Building Code (OBC) Interior Finishes – OBC Chapter 8 Plumbing Fixtures - OBC Chapter 29 2024 Ohio Plumbing Code (OPC) 2024 Ohio Mechanical Code (OMC) Interior Wall and Ceiling Finish Requirements: Table 2902.1 The Minimum number of required plumbing fixtures are as follows: 2023 National Electric Code (NEC) Interior exit stairs, ramps, and passageways: Class A 2017 ICC A.117.1 (ADA) Corridors: Class B Occupant Occupant Water Closets Lavatories Drinking Service ASHRAE 90.1-2019 Rooms and Enclosed Spaces: Class C Type Load Male Female Male Female Fountain Sink Fire Protection Systems - OBC Chapter 9 General Building Information: 1 per 25 for first 50, 1 per 50 remainder 1 per 80 remainder 1 per 100 1 Building Area: 5,628 GSF Building is not fully sprinklered. Group H Ammo Storage rooms to be sprinklered per Occupant Load: 106 OBC 415.3 and 415.4 and NFPA 495. Water Closets Lavatories Classroom: 42 @ 50 per = 0.84 Classroom: 42 @ 50 per = 0.84 Use and Occupancy Classification - OBC Chapter 3 Building is not equipped with a fire alarm system per OBC 907.2.2. Group H Ammo Office: 9 @ 25 per = 0.36 Office: 9 @ 40 per = 0.22 Storage rooms to be equipped with a manual emergency alarm system per OBC Storage: 2 @ 100 per = 0.02 Storage: 2 @ 100 per = 0.02 415.5.1 with alarm initiating devices outside each interior exit access door. Separated Occupancies Total Required = 1.22 = 2 Total Required = 1.08 = **2** H-3 - High Hazard Portable fire extinguishers are to be provided and maintained in accordance to **Drinking Fountain** Classroom: 84 @ 100 per = 0.84 General Building Heights and Areas – OBC Chapter 5 Office: 18 @ 100 per = 0.18 Means of Egress – OBC Chapter 10 Storage: 4 @ 100 per = 0.04 9,000 sf (OBC Allowable Area - OBC Table 506.2) Allowable Area: Occupant Load = 106 A 2 stories (OBC Allowable Height - OBC Table 504.4) Allowable Height: 40 feet (OBC Allowable Height - OBC Table 504.3) 5,628 square feet Maximum Common Path of Egress Travel Distance shall be 100 feet in Men's WC/Urinal Actual Height: 1 Stories / 20 feet spaces with one exit or exit access doorway. Women's WC Men's Lav Allowable 9,000 sf 5,228 sf Maximum Occupant Load shall be 49 for spaces with one exit or exit access Women's Lav 2 stories 1 story Drinking Fountain 40 ft 40 ft Service Sink Table 1017.2: Exit Access Travel Distance = 200 feet (without sprinkler system) <u>H-3</u>: 5,000 sf 400 sf *Water Dispensers provided per OPC 410.4 1 story 1 story 40 ft 40 ft 1020.4 Dead end corridors shall not exceed 20 feet. H-3 occupancy shall be separated from B occupancy by a 2-hr rated fire barrier per Accessibility - OBC Chapter 11 Types of Construction – OBC Chapter 6 1109.2 Each toilet room shall be accessible. At least one of each fixture, element, control, or dispenser in each accessible toilet room and bathing room shall be Construction Type: 5B accessible. Where there is one urinal provided in a toilet room, the urinal is not Table 601: Fire Resistance Rating Requirements for Building Elements required to be accessible. Primary Structural Frame 0 Hours 0 Hours Exterior Bearing Walls 1109.2.2 At least 5% of the total number of compartments shall be wheelchair Interior Bearing Walls 0 Hours accessible. Interior Non-Bearing Walls & Partitions 0 Hours 1109.2.3 At least 5%, but not less than one, lavatory shall be accessible. Floor Construction and Secondary Members 0 Hours Roof Construction and Secondary Members 0 Hours 1109.3 Where sinks are provided, at least 5% but not less than one provided in Fire and Smoke Protection Features – OBC Chapter 7 accessible spaces shall be accessible. Table 705.5: Exterior Walls Based on Fire Separation Distance ANSI117.1-2009 606.2 Exception 1: A parallel approach shall be permitted to a X < 5'1 Hour kitchen sink in a space where a cook top or conventional range is not 1 Hour 5' <u><</u> X < 10' provided. 0 Hours 10' <u><</u> X < 30' X <u>></u> 30' 0 Hours 1109.4 Where kitchens and kitchenettes are provided in accessible spaces or rooms, they shall be accessible.



0.068

13.0

0.090

Report date: 06/06/24

Page 1 of 9

Single Pane, Clear , SHGC 0.82, VT 0.76, [Bldg. Use 1 - Office]

Ext. Wall: Concrete Block, 8in., Solid Grouted, Normal Density,

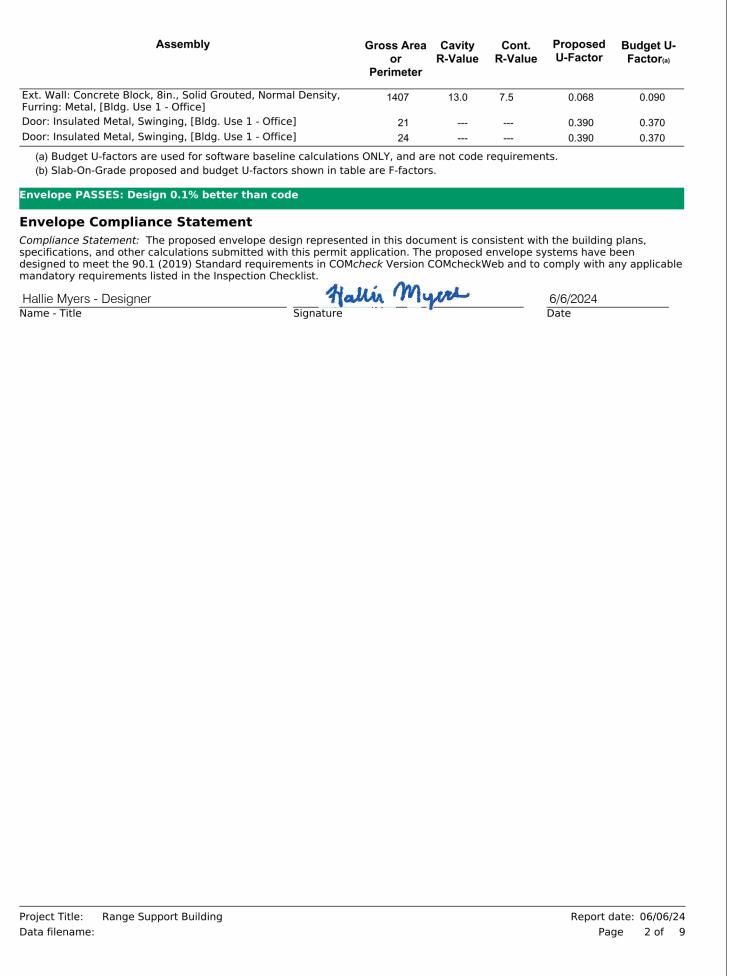
Door: Insulated Metal, Non-Swinging, [Bldg. Use 1 - Office]

Furring: Metal, [Bldg. Use 1 - Office]

Project Title: Range Support Building

WEST

Data filename:





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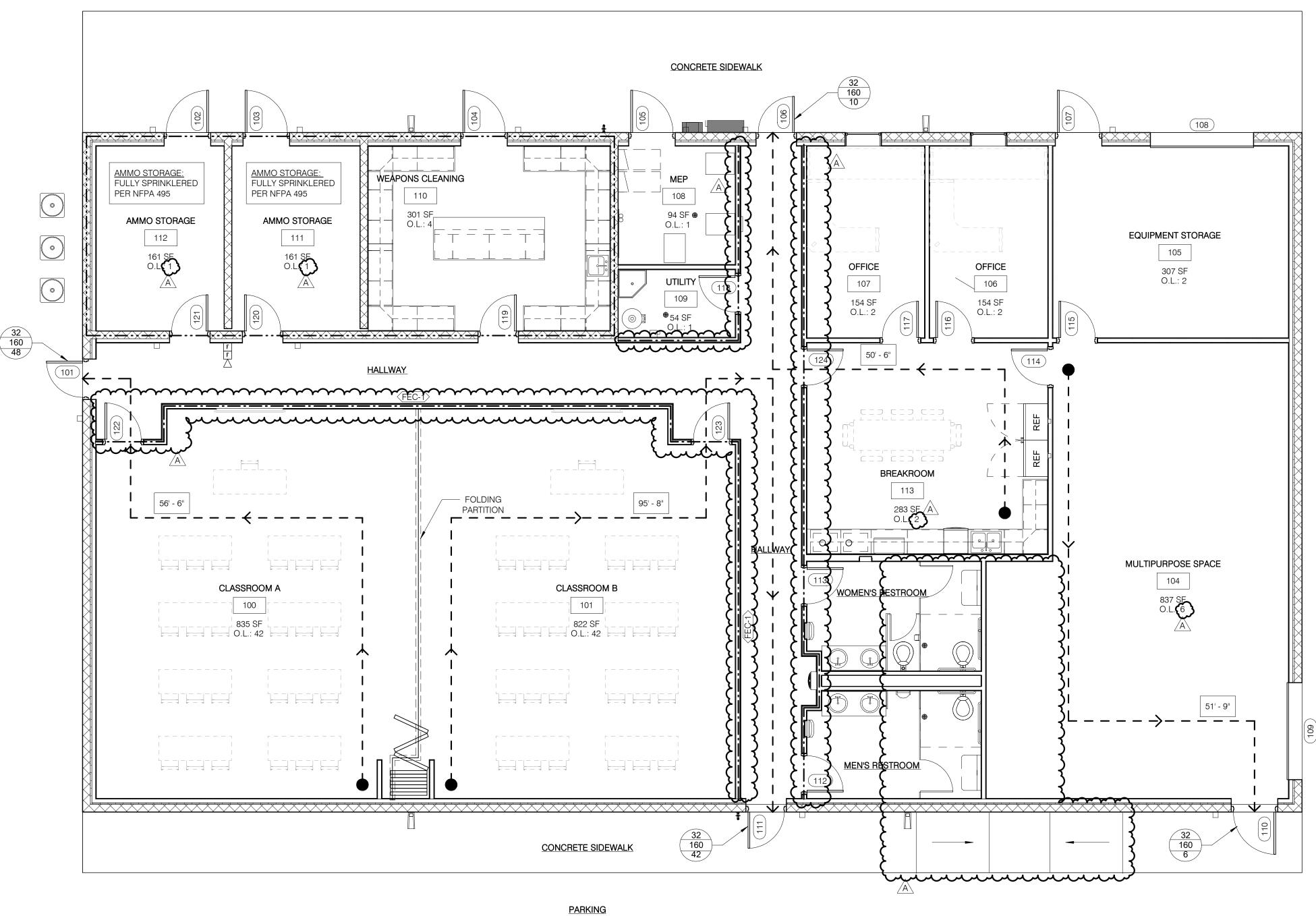
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Code Compliance and Energy Compliance

RANGE



A1 LIFE SAFETY PLAN

G1.01 3/16" = 1'-0"

EGRESS LEGEND

WALL-MOUNTED, SEMI-RECESSED FIRE EXTINGUISHER CABINET & EXTINGUISHER WITH HANDLE @ 42" A.F.F. - MULTIPURPOSE



INDICATES CLEAR WIDTH OF EGRESS DOOR (INCHES) ## MAXIMUM EXIT CAPACITY OF EGRESS DOOR (OCCUPANTS) ## ACTUAL EXIT CAPACITY OF EGRESS DOOR (OCCUPANTS)

INDICATES 1-HOUR FIRE-RATED BARRIER

INDICATES MAXIMUM TRAVEL DISTANCE W/

INDICATES 2-HOUR FIRE-RATED BARRIER

250' DISTANCE INDICATED



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Public Safety **Training Facility** Range Building

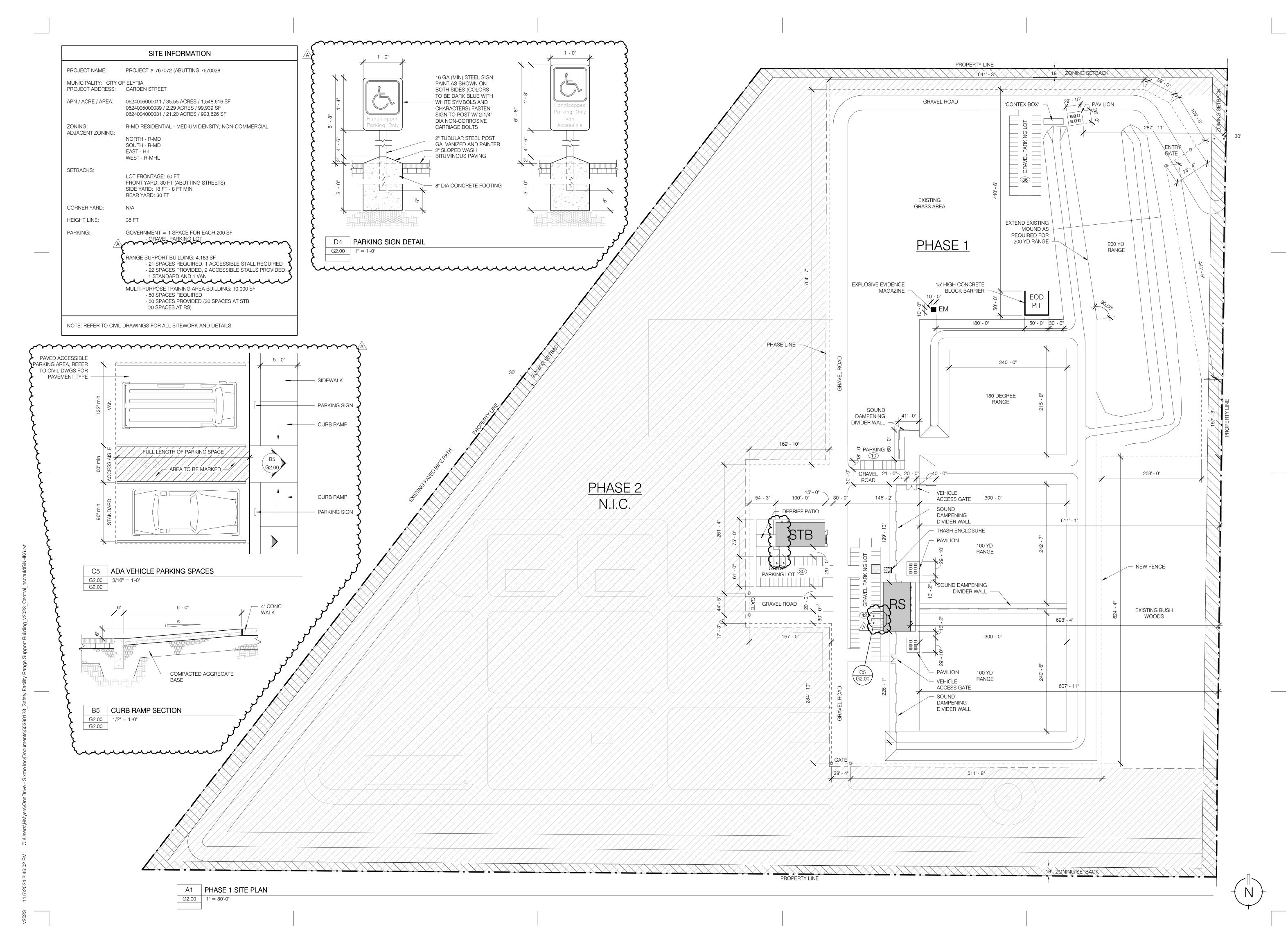
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Life Safety Plan





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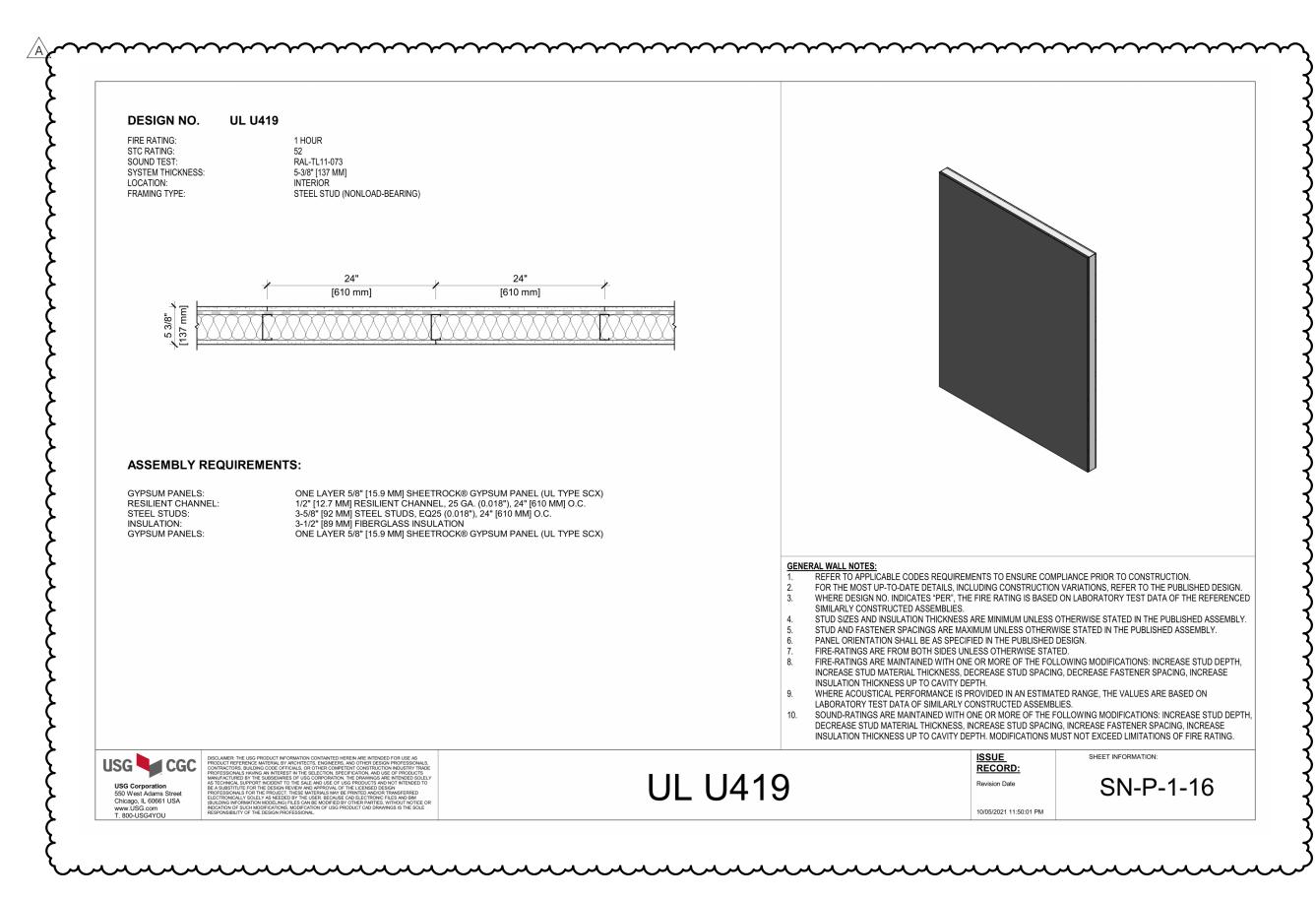
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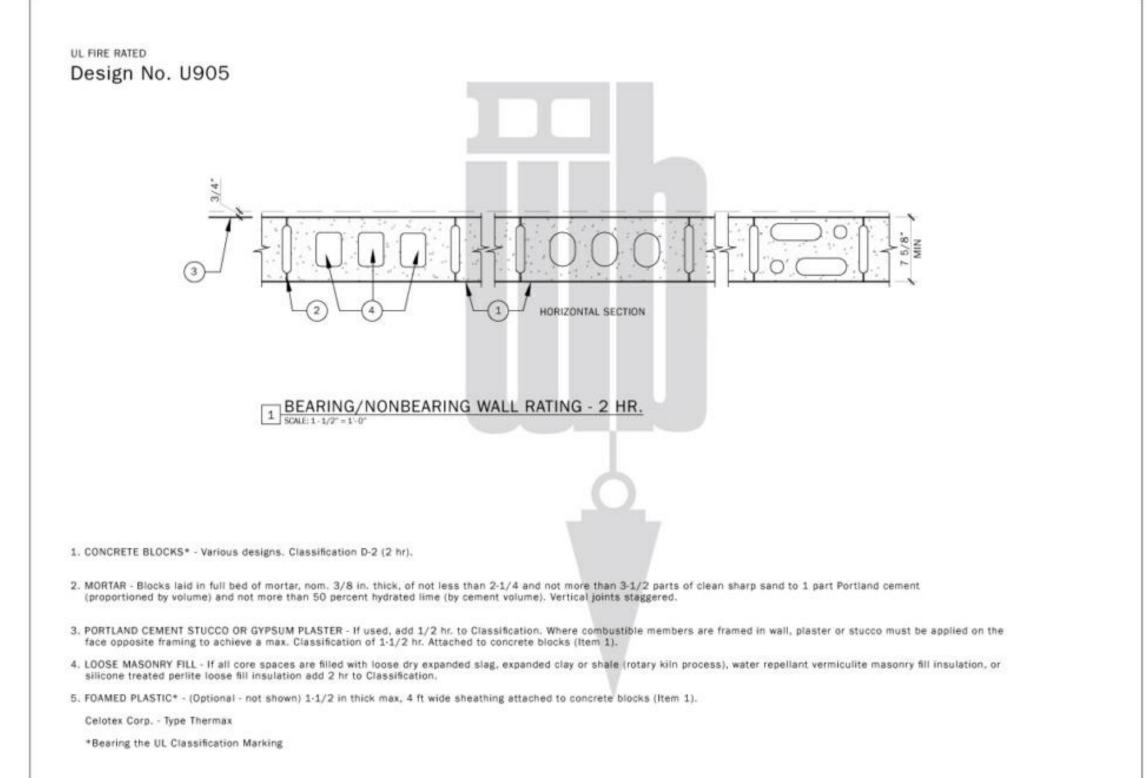
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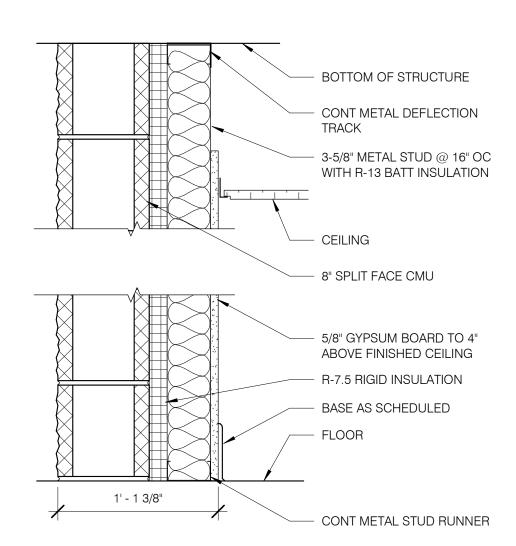
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Phase One Site Plan

G2.00



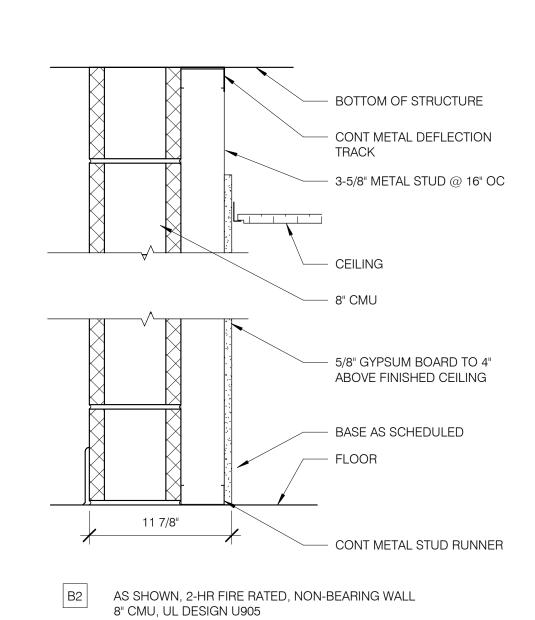


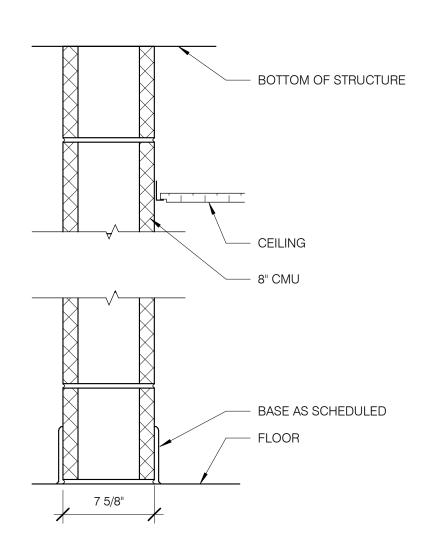


- AS SHOWN, NON-FIRE RATED, BEARING WALL
- AS SHOWN, 2-HR FIRE RATED, BEARING WALL 8" CMU, UL DESIGN U905

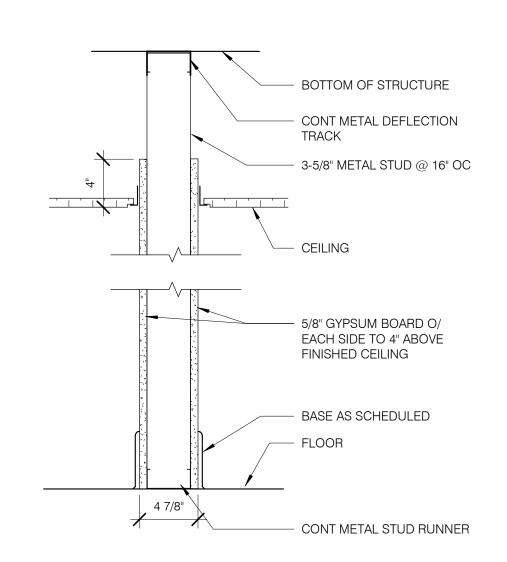
A5 TYPICAL WALL TYPES

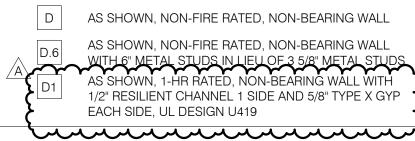
A0.00 1 1/2" = 1'-0"

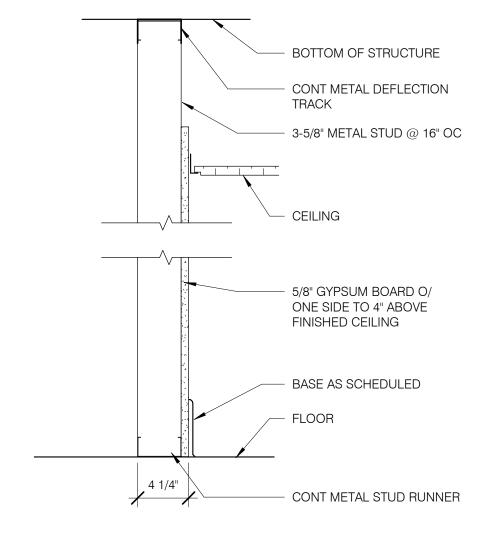




- C AS SHOWN, NON-FIRE RATED, NON-BEARING WALL
- C2 AS SHOWN, 2-HR FIRE RATED, NON-BEARING WALL 8" CMU, UL DESIGN U905







E AS SHOWN, NON-FIRE RATED, NON-BEARING WALL

EIXMO ARCHITECTURE

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POST

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Expiration Date 12/31/2025

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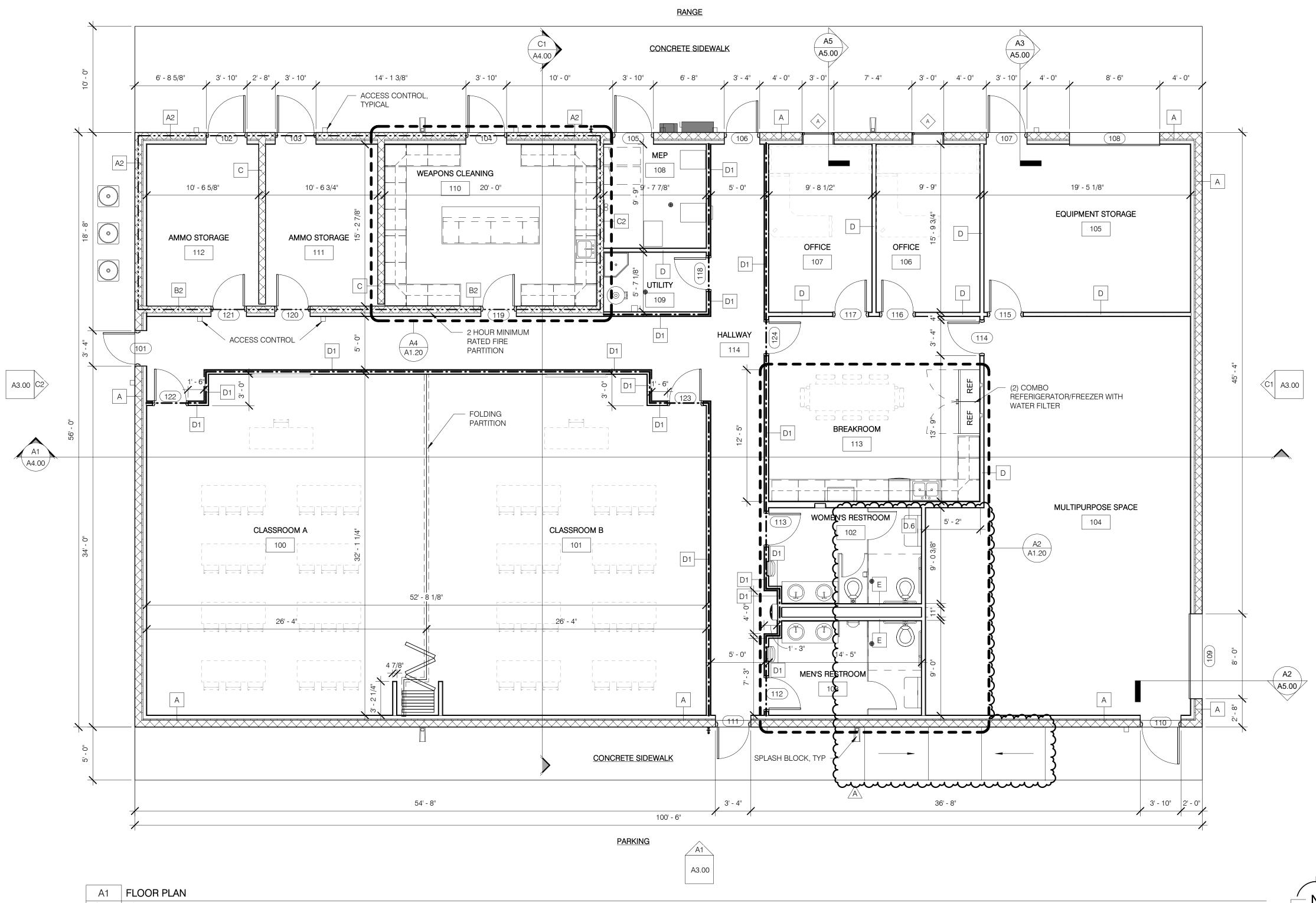
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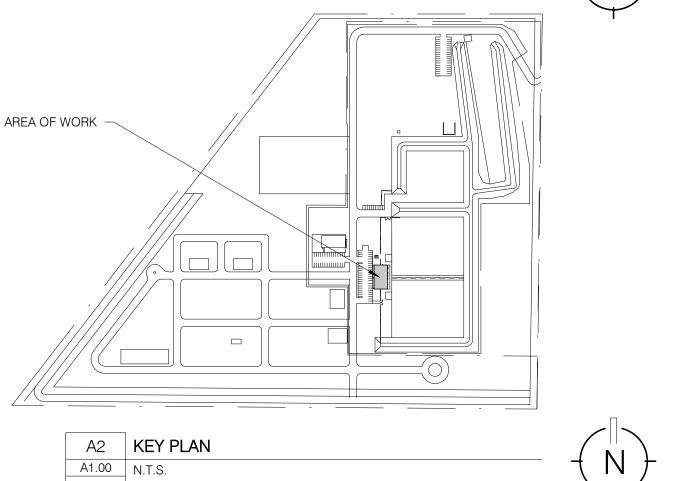
Typical Wall Assemblies

A0.00





A1.00 3/16" = 1'-0"



FLOOR PLAN GENERAL NOTES

- 1. FINISHED FLOOR ELEVATION OF 0'-0".
- EXTERIOR WALL DIMENSIONS ARE TO FACE OF MASONRY.
- INTERIOR WALL DIMENSIONS ARE TO FINISHED FACE, EXCEPT WHERE NOTED OTHERWISE.
- REFER TO ENLARGED PLANS FOR ADDITIONAL NOTES, DETAILS,
- REFER TO INTERIOR AND EXTERIOR ELEVATONS FOR ADDITIONAL NOTES, DETAILS, AND DIMENSIONS.
- FIELD VERIFICATION OF ALL EXISTING CONDITIONS AND DIMENSIONS IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR. CONTRACTOR TO NOTIFY THE ARCHITECT OF ANY DISCREPANCIES IMMEDIATELY.
- 7. ALL NEW WALL TYPES ARE TO BE TYPE A , UNLESS NOTED OTHERWISE.
- 8. SECURITY AND ACCESS CONTROL TO BE PROVIDED AND INSTALLED BY OWNER.
- 9. ALL FURNITURE TO BE FURNISHED AND INSTALLED BY OWNER, UNLESS NOTED OTHERWISE. ALL EQUIPMENT IN WEAPONS CLEANING TO BE FURNISHED AND INSTALLED BY OWNER.



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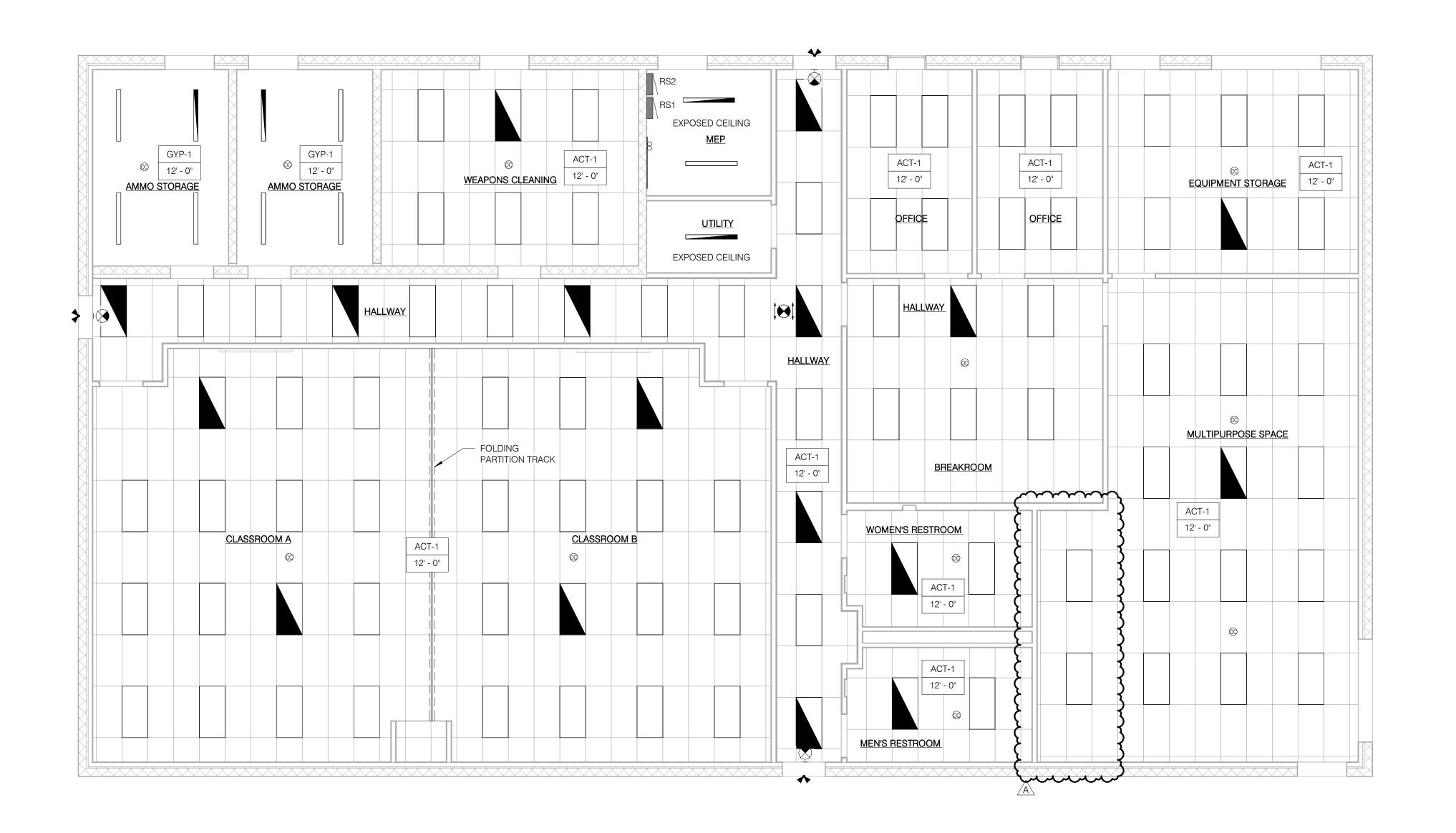
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Floor Plan



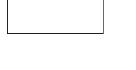
REFLECTED CEILING PLAN GENERAL NOTES

- 1. CEILING GRIDS TO BE CENTERED IN ROOMS, UNLESS NOTED OTHERWISE.
- 2. ALL LIGHTS, SPRINKLER HEADS AND CEILING MOUNTED DEVICES ARE TO BE CENTERED IN THE CEILING TILE, UNLESS NOTED OTHERWISE.
- 3. REFER TO FINISH LEGEND AND SCHEDULE FOR CEILING MATERIAL

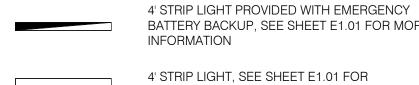
REFLECTED CEILING PLAN LEGEND



TROFFER LIGHT PROVIDED WITH EMERGENCY BATTERY BACKUP, SEE SHEET E1.01 FOR MORE INFORMATION



TROFFER LIGHT, SEE SHEET E1.01 FOR MORE INFORMATION



BATTERY BACKUP, SEE SHEET E1.01 FOR MORE INFORMATION 4' STRIP LIGHT, SEE SHEET E1.01 FOR



MORE INFORMATION

OCCUPANCY SENSOR



EXIT SIGN, SEE ELECTRICAL



DUAL HEAD REMOTE EGRESS FIXTURE, SEE ELECTRICAL





SUPPLY DIFFUSER, SEE MECHANICAL



CEILING TYPES

ACT-1 2x4 ACOUSTIC TILE CEILING - WATER REPELLENT AND WASHABLE

GYP-1 3/8" WIRE MESH GYPSUM BOARD



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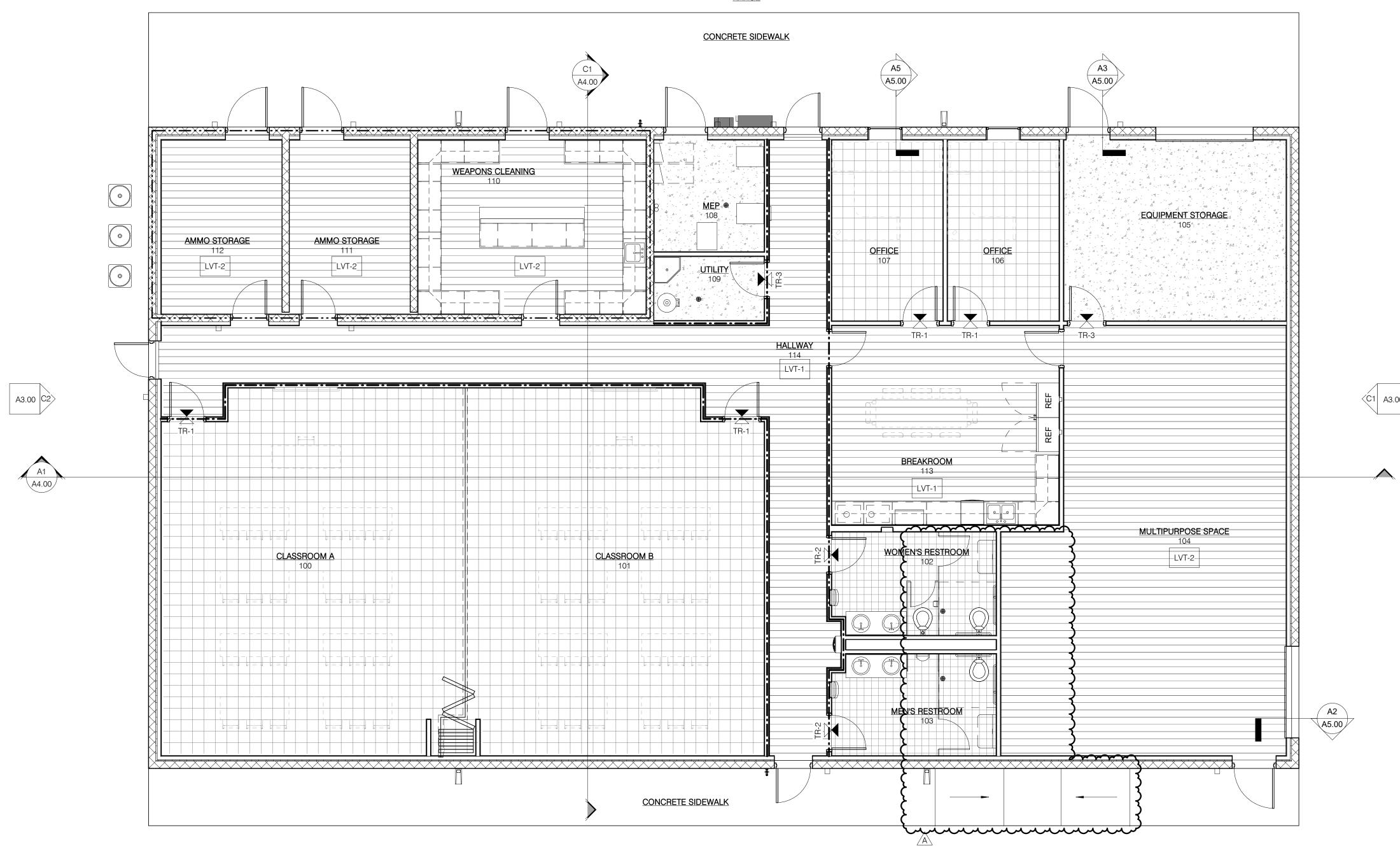
Reflected Ceiling

A1 REFLECTED CEILING PLAN

A1.10 3/16" = 1'-0"



RANGE



<u>PARKING</u>



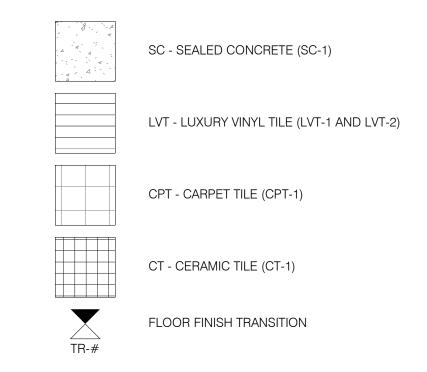
A1 FINISH FLOOR PLAN

A1.11 3/16" = 1'-0"

FINISH FLOOR PLAN GENERAL NOTES

- 1. MANUFACTURER'S RECOMMENDED INSTALLATION METHODS AND MATERIALS FOR ALL FINISHES SHALL BE USED.
- 2. SUBCONTRACTOR SHALL ENDEAVOR TO ORDER FINISH MATERIALS IN A TIMELY MANNER TO ENSURE AVAILABILITY. SUBCONTRACTOR SHALL IMMEDIATELY NOTIFY THE ARCHITECT IF A SPECIFIED FINISH BECOMES UNAVAILABLE.
- 3. ALL CARPET TO CONFORM TO OBC CRITICAL RADIANCE FLUX OF CLASS I, 0.45 WATTS PER SQ CENTIMETER OR GREATER.
- 4. CLEAN ALL CARPET AND OTHER FINISH SURFACES FOLLOWING COMPLETION OF INSTALLATION/CONSTRUCTION.
- 5. SEE FINISH PLANS AND SCHEDULE FOR FLOOR FINISH LOCATIONS.
- PROVIDE AND INSTALL TRANSITION STRIPS FOR ALL LOCATIONS WITH FLOORING CHANGES IN WHICH THE THICKNESS OF THE MATERIAL VARIES GREATER THAN 1/4" UNLESS NOTED OTHERWISE. SUBCONTRACTOR TO CONFIRM SIZES BASED ON FLOORING. ALL TRANSITIONS SHALL BE ADA COMPLIANT AND INSTALLED AT CENTER LINE OF DOORS.
- ALL GYPSUM BOARD WALLS AND CEILING TO HAVE ORANGE PEEL FINISH.
- 8. ALL FLOORING GRID PATTERN TO BE CENTERED IN ROOM, UNLESS NOTED OTHERWISE.
- 9. FLOORING TO EXTEND UNDER SHELVING, APPLIANCES AND BASE CABINETRY.

FINISH FLOOR PLAN LEGEND





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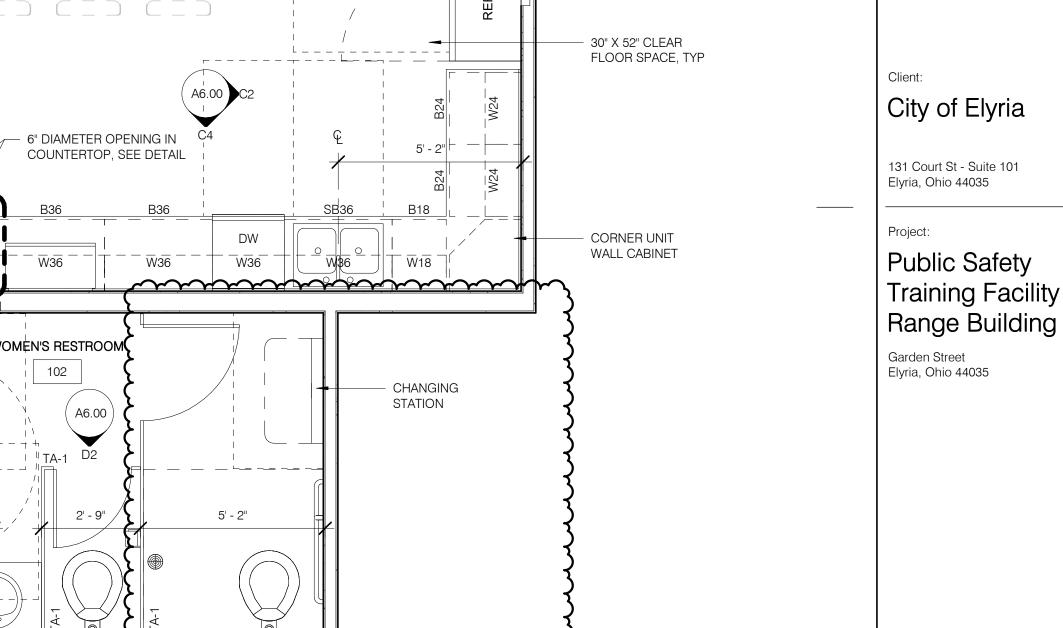
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Finish Floor Plan

_ A1.11

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- CHANGING

STATION

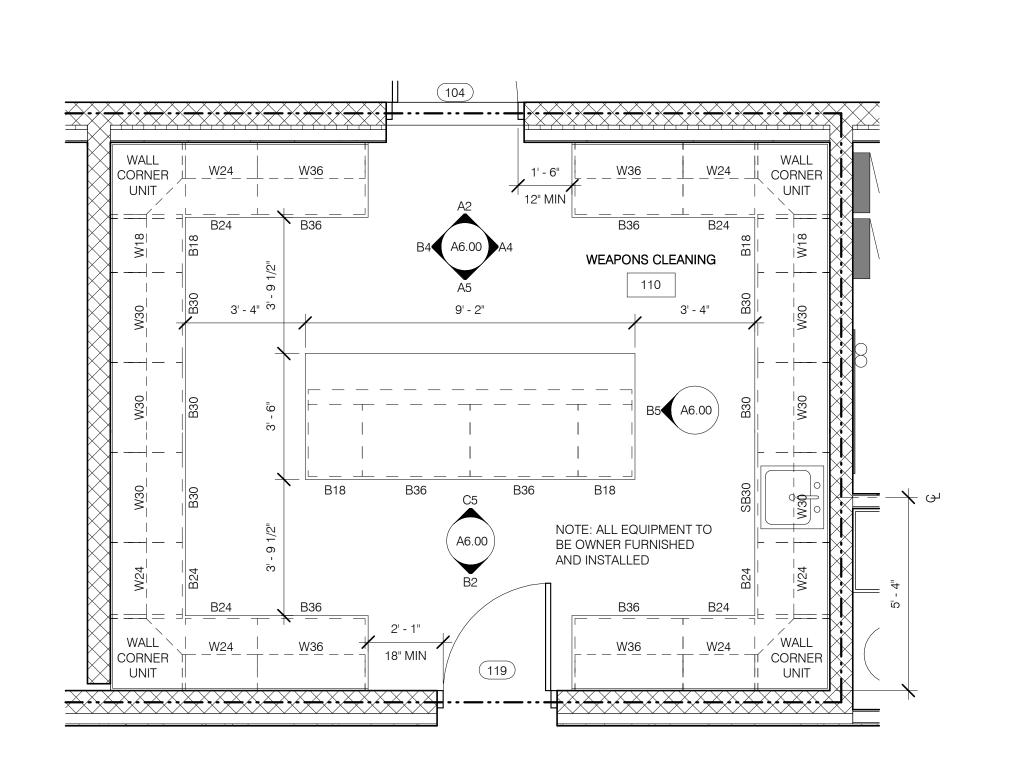
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Enlarged Floor Plans



A2 RESTROOMS AND BREAKROOM ENLARGED PLAN

W36

WOMEN'S RESTROOM

102

. □ TA-1 D2

MEN'S RESTROOM

103

FILLER AS REQUIRED,

RECESSED SANITARY NAPKIN DISPENSER -

67" TURNING RADIUS

SPACE, TYP -

/ RECEPTACLE

FILLER

30" X 52" CLEAR FLOOR

SEMI-RECESSED COMBO PAPER TOWEL DISPENSER

WALL MOUNTED BOTTLE

30" X 52" CLEAR FLOOR

SEMI-RECESSED COMBO PAPER TOWEL DISPENSER

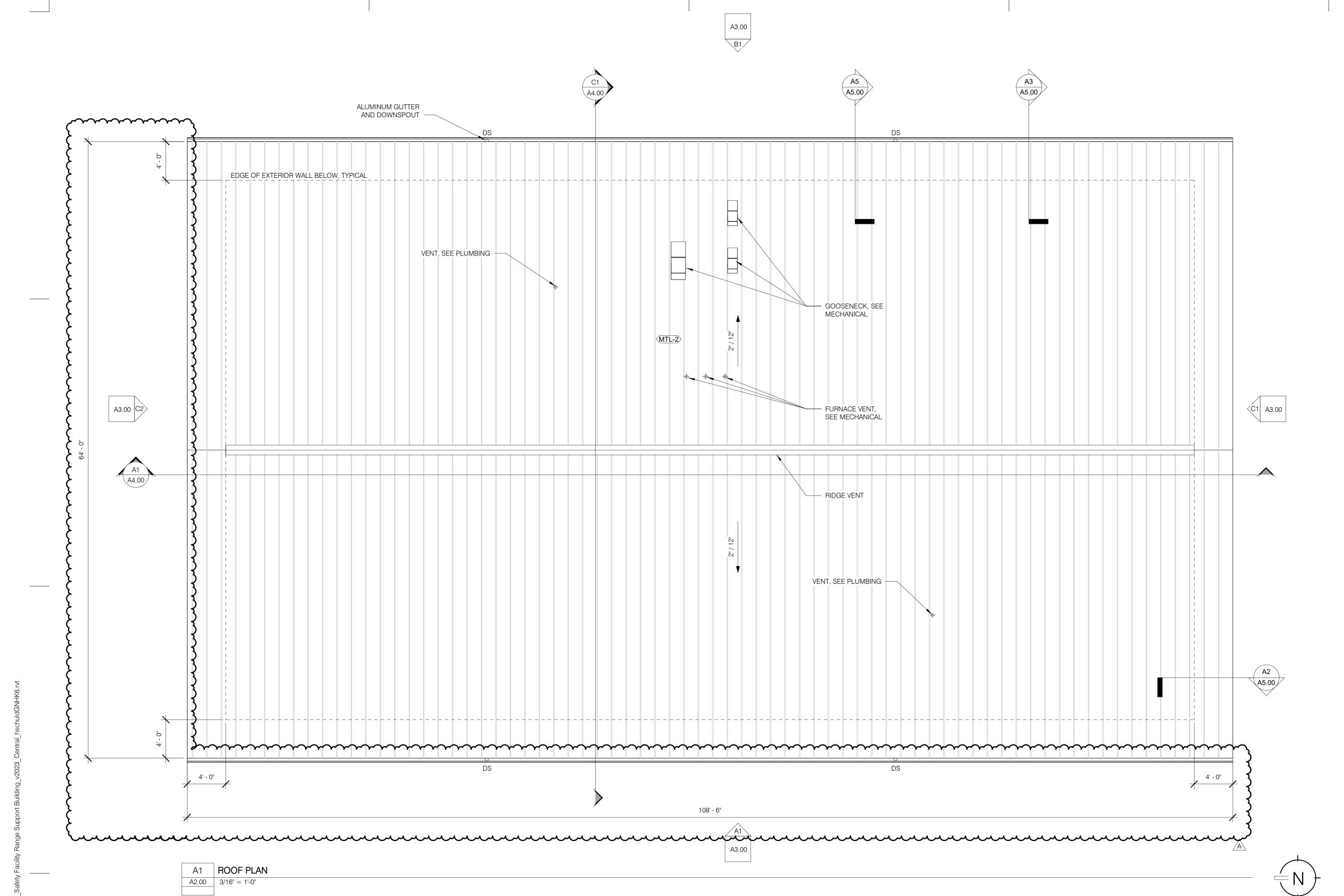
SPACE, TYP

/ RECEPTACLE

67" TURNING RADIUS -

SCRIBE TO WALL

A4 WEAPONS CLEANING ENLARGED PLAN A1.20 A1.00



ROOF PLAN GENERAL NOTES

- CONTRACTOR IS RESPONSIBLE FOR POSITIVE DRAINAGE AROUND EQUIPMENT AND PENETRATIONS.
- 2. PROVIDE WALKWAY PADS AROUND ALL REGULARLY SERVICED EQUIPMENT TO ROOF ACCESS POINT.
- 3. VENT THRU ROOF (VTR) SHALL BE A MIN. 10'-0" AWAY FROM OUTSIDE AIR INTAKE OPENINGS.
- 4. ATTICS SHALL BE VENTILATED WITH INTAKE VENTS AT OR NEAR THE SOFFIT WITH A MIN. NET FREE AREA OF 8 SQ.IN. PER LINEAR FOOT AND RIDGE VENTS WITH A MIN. NET FREE AREA OF 15 SQ IN. PER LINEAR FOOT.

ROOF ASSEMBLY TYPES

MTL-2 STANDING SEAM METAL ROOF O/ SELF ADHERED SHEET AIR AND VAPOR BARRIER, O/ 3/4" EXTERIOR RATED OSB SHEATHING O/ PRE-ENGINEERED WOOD TRUSSES. PROVIDE ICE AND WATER GUARD FROM FASCIA TO 2'-0" FROM INSIDE FACE OF WALL.



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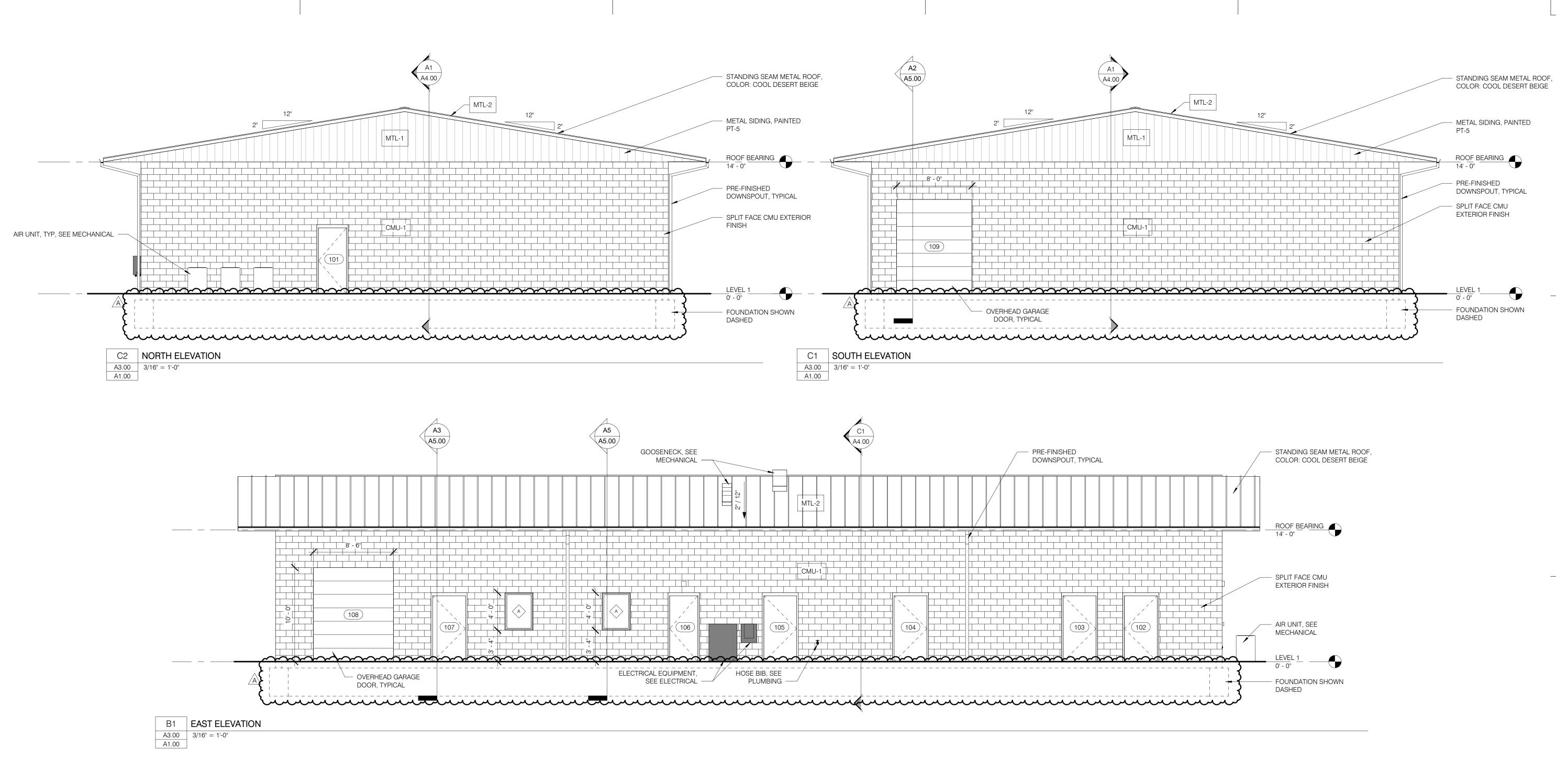
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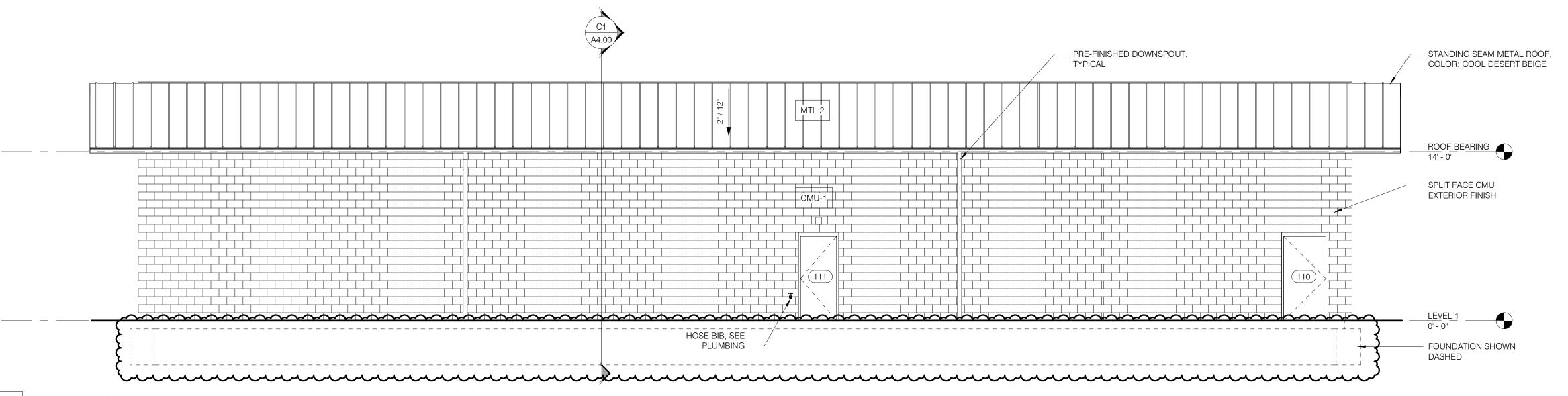
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Roof Plan

A2.00





A1 WEST ELEVATION
A3.00
A1.00

3/16" = 1'-0"

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Project:

Public Safety **Training Facility** Range Building

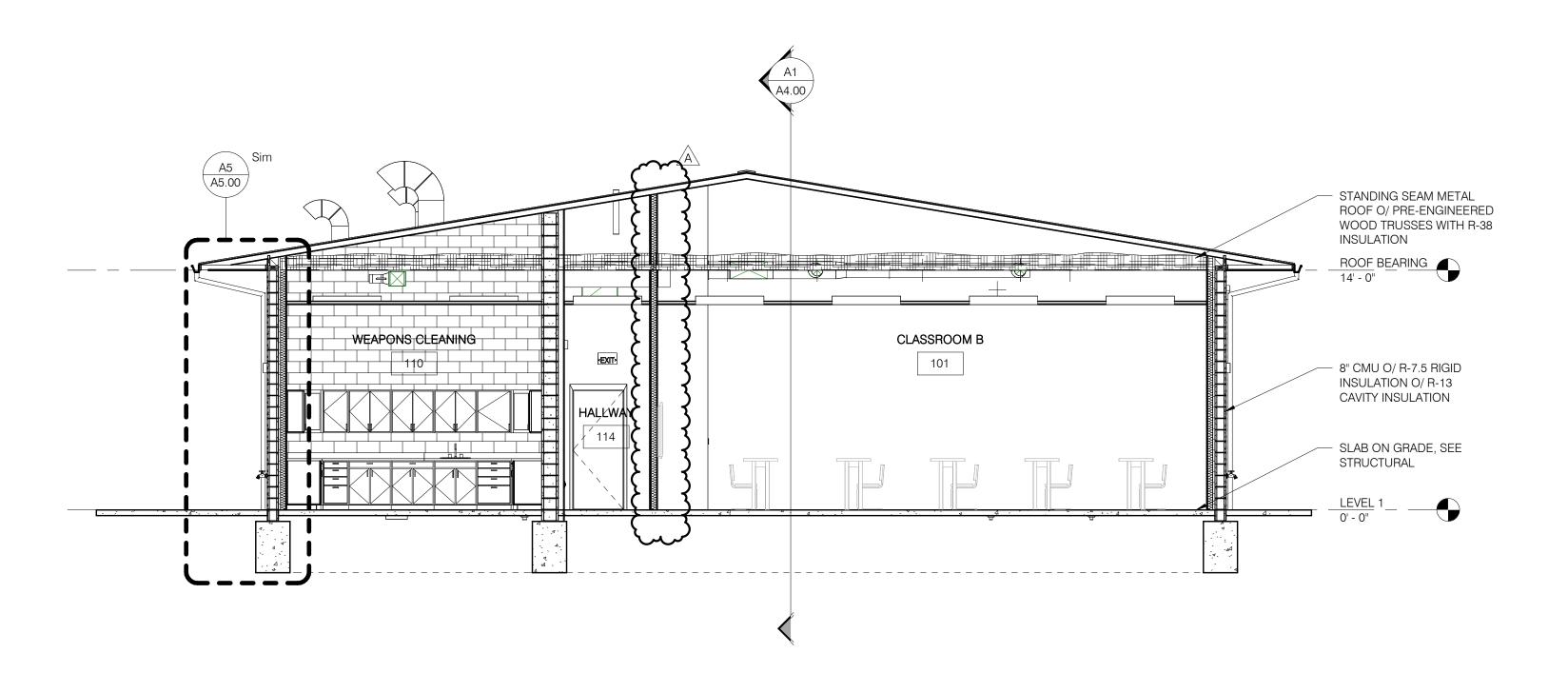
Garden Street Elyria, Ohio 44035

Revisions:

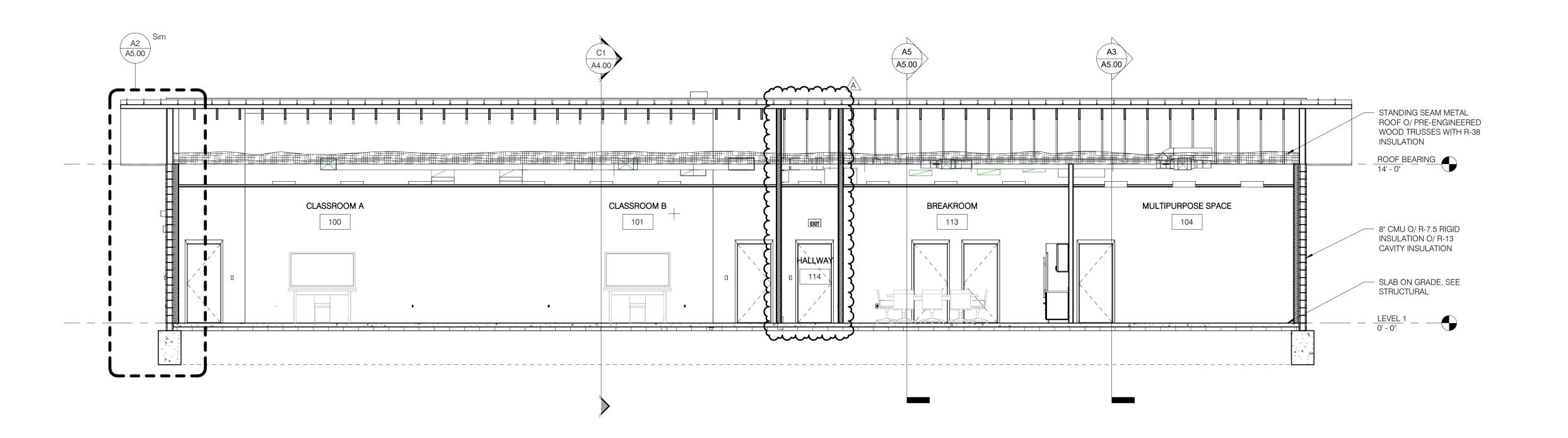
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Project Number: 5039 01 23 Drawn by: GLP Checked by: Copyright:

Exterior Elevations



C1 CROSS SECTION A4.00 3/16" = 1'-0" A1.00



A1 BUILDING SECTION

A4.00 3/16" = 1'-0"

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City of Elyria

131 Court St - Suite 101 Elyria, Ohio 44035

Project:

Public Safety **Training Facility** Range Building

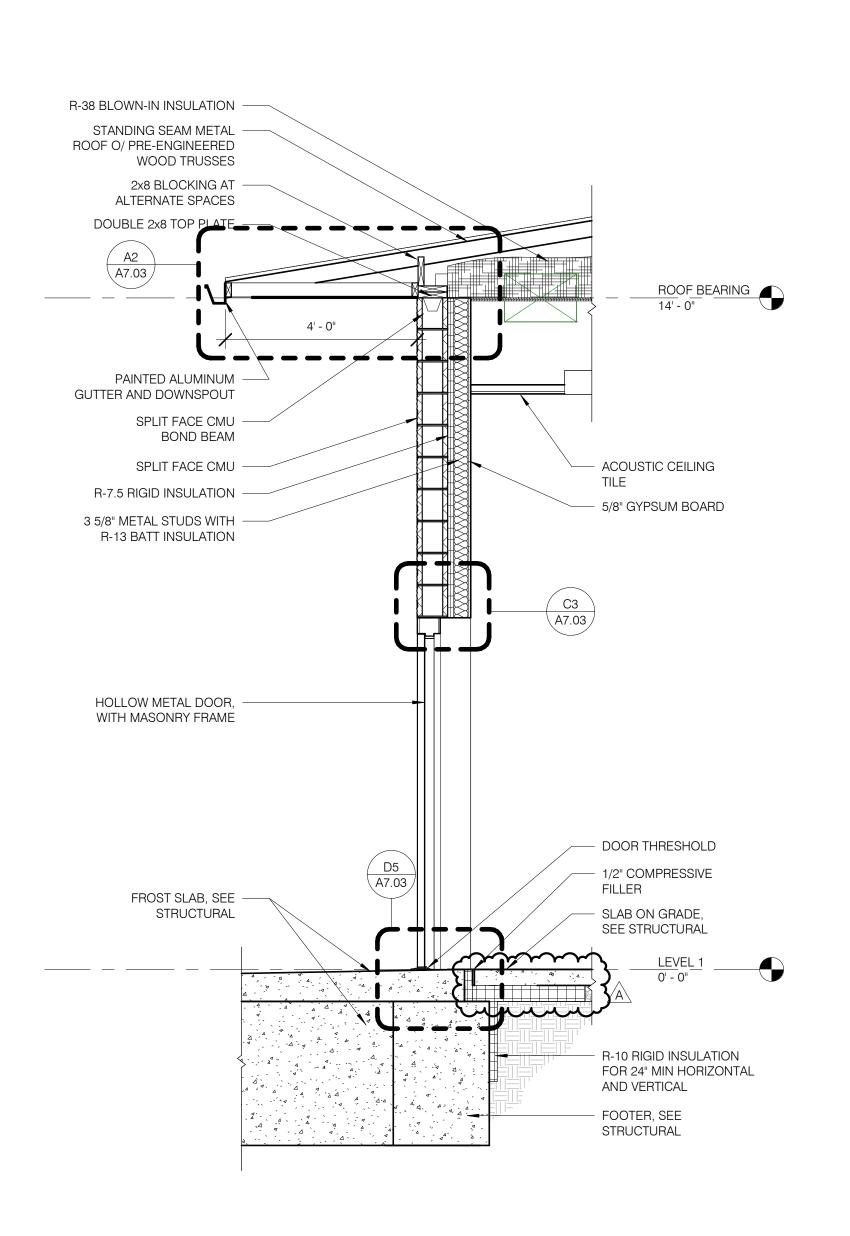
Garden Street Elyria, Ohio 44035

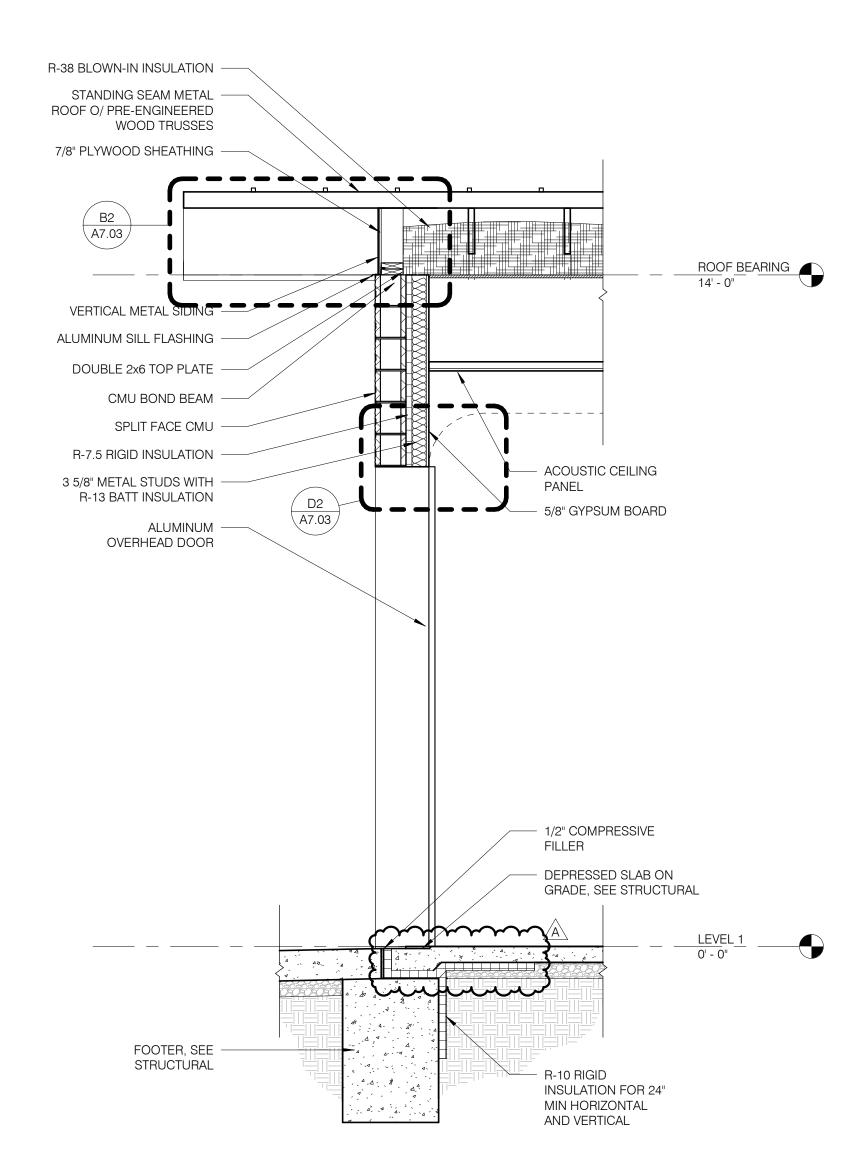
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Building Sections





A5 WALL SECTION @ WINDOW

A3 TYPICAL WALL SECTION

A5.00
A1.00

A5.00
A1.00

A2 WALL SECTION @ OVERHEAD DOOR

ARCHITECTURE

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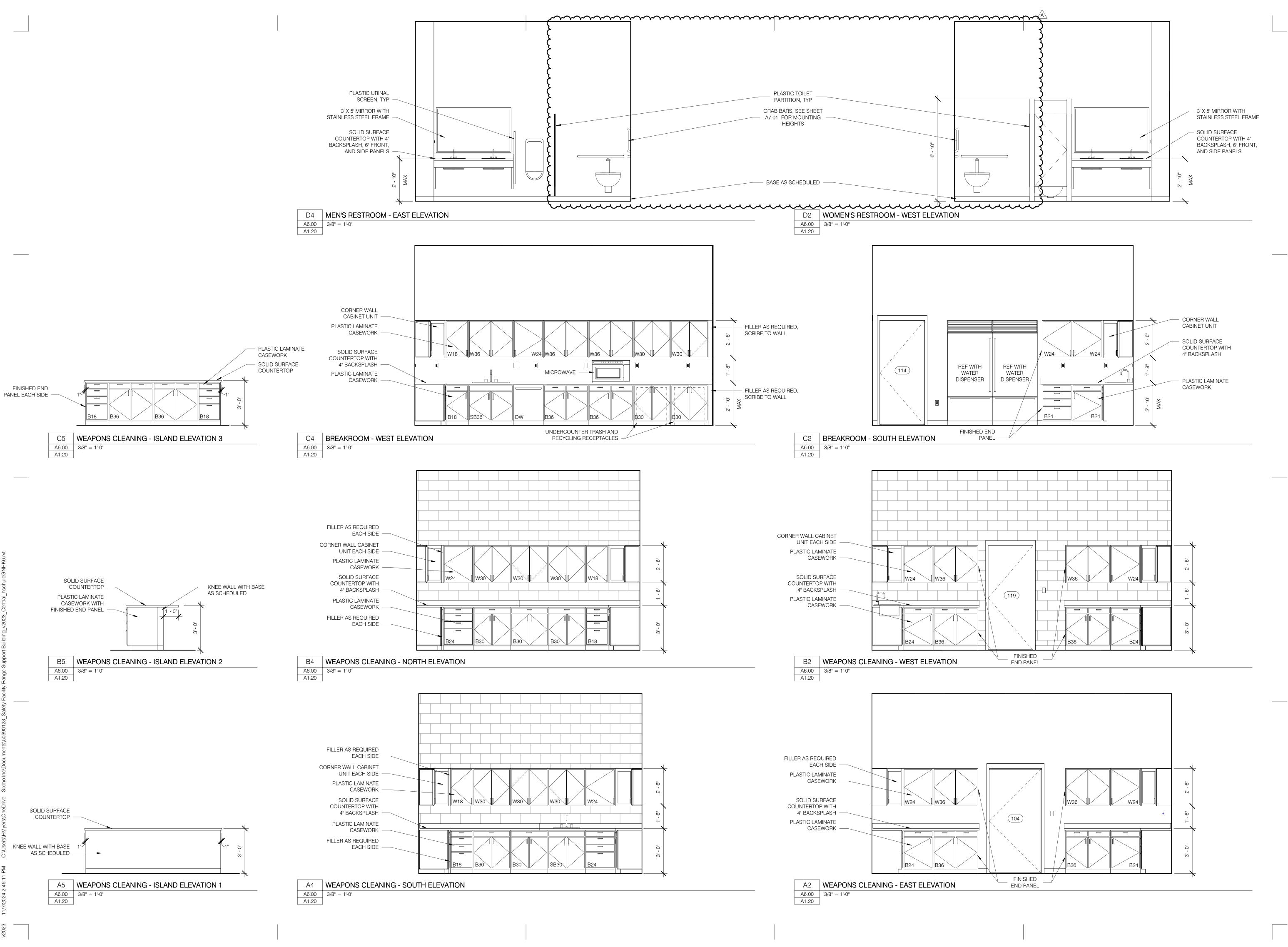
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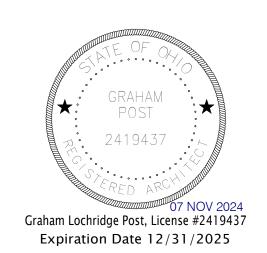
Wall Sections

A5.0C





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Public Safety Training Facility Range Building

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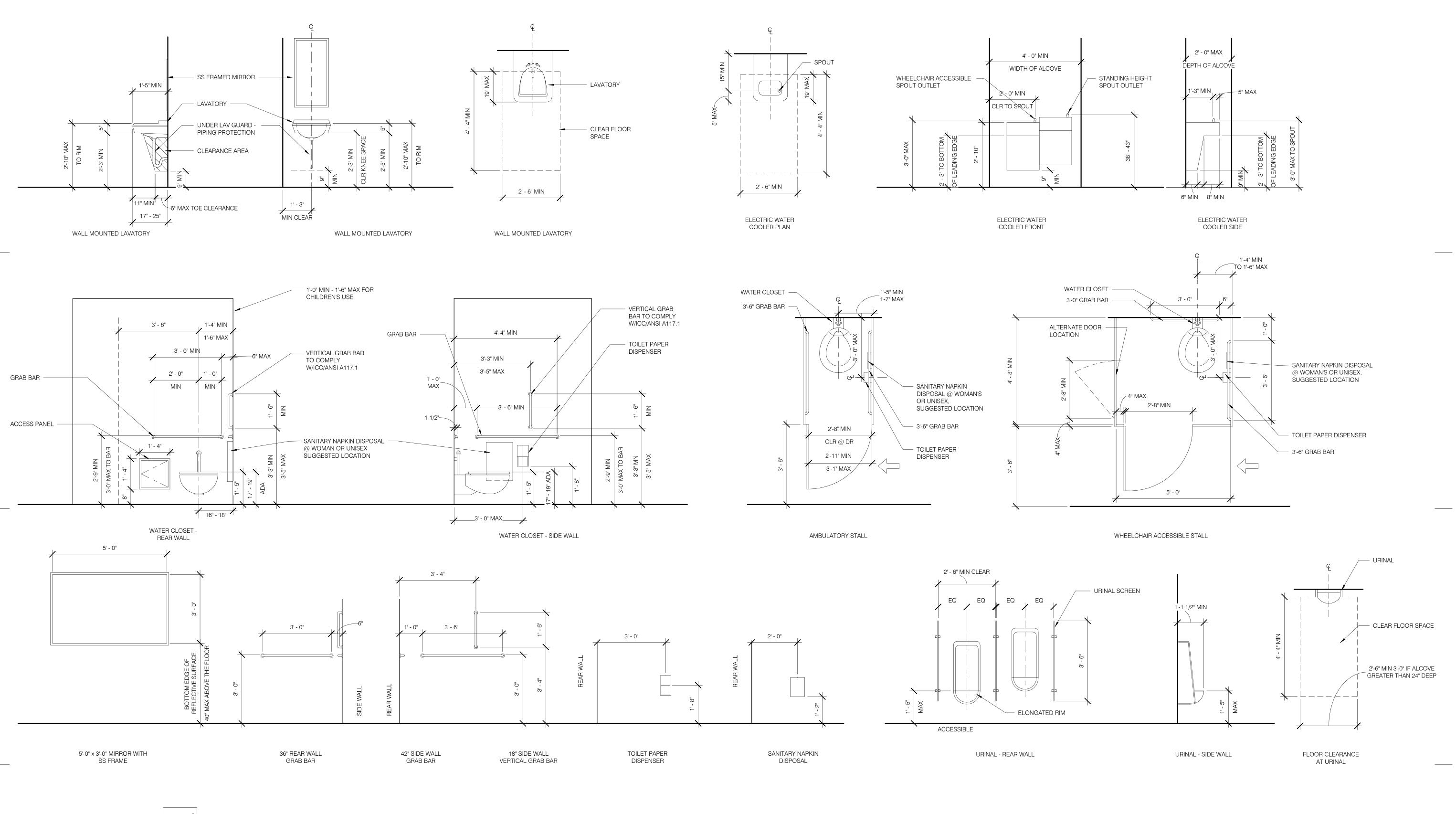
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Interior Elevations



SOAP DISPENSER

SANITARY NAPKIN AND TAMPON VENDOR - FREE

SANITARY NAPKIN AND TAMPON

VENDOR - COIN OPERATED

COMBINATION PAPER TOWEL DISPENSER/ WASTE RECEPTACLE

BABY CHANGING

STATION



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Range Building

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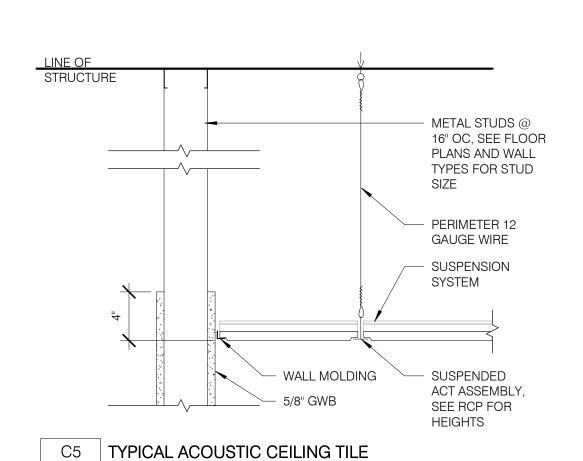
Revisions:

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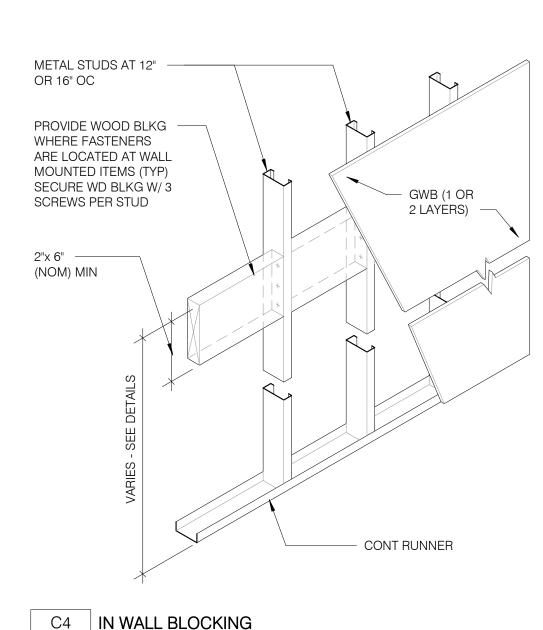
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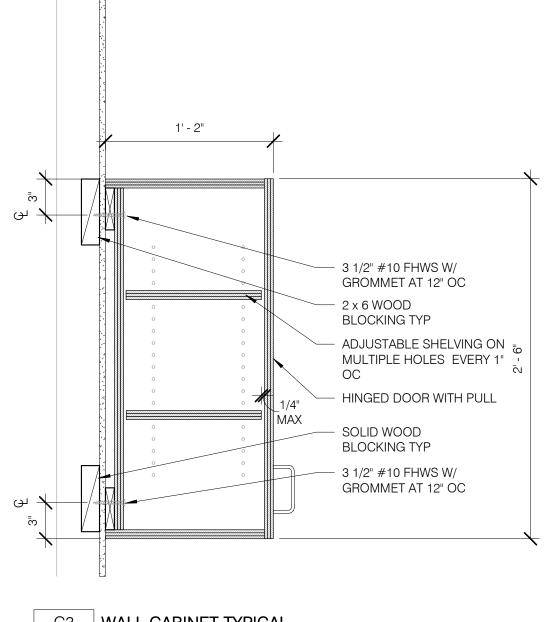
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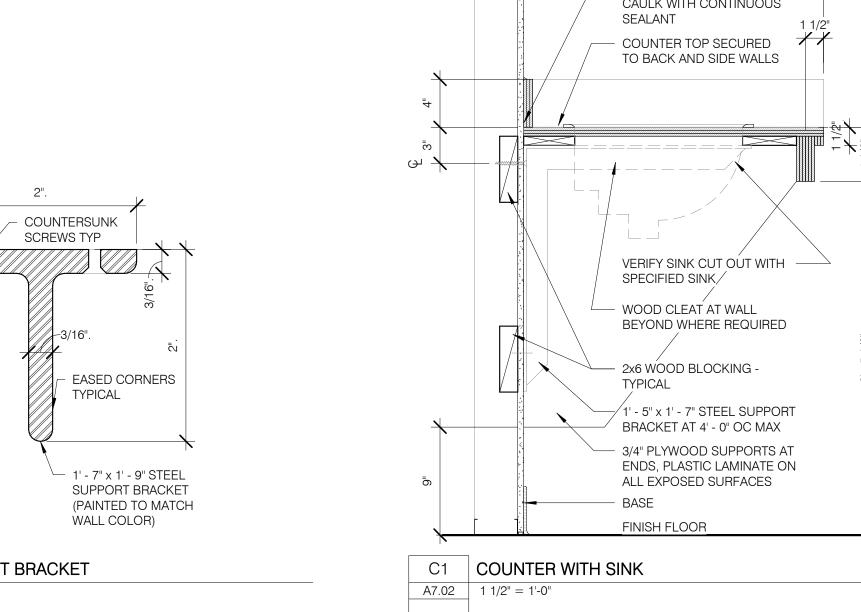
A7.01



A7.02 1 1/2" = 1'-0"







C3 A7.02

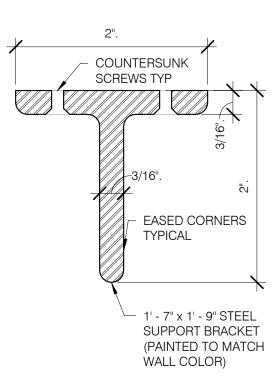
A2 A7.02

A7.02 3/4" = 1'-0"

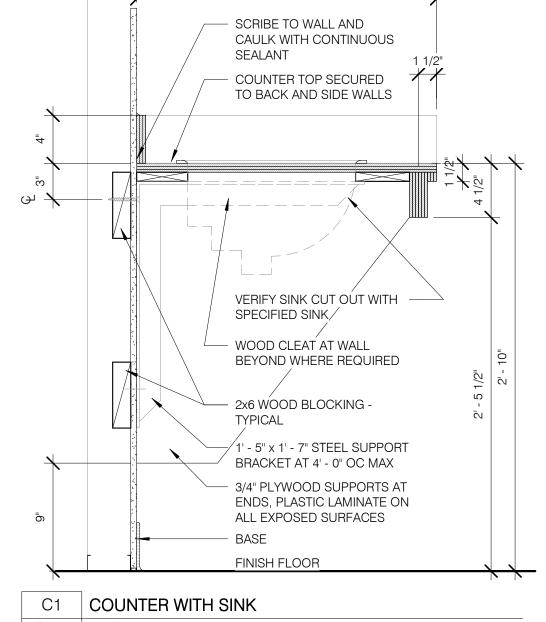
A1 BASE AND WALL CABINET











2' - 1"



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Graham Lochridge Post, License #2419437

Expiration Date 12/31/2025

07 NOV 2024

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Training Facility Range Building

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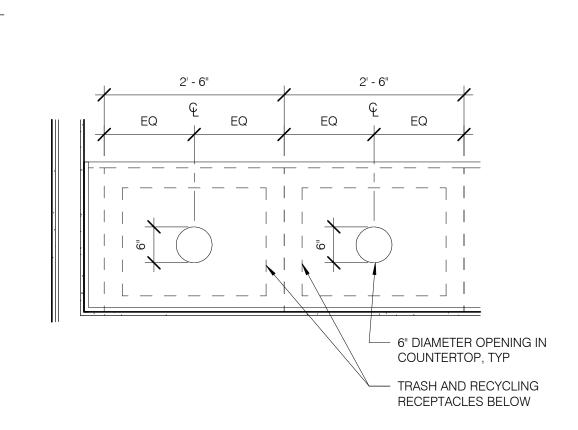
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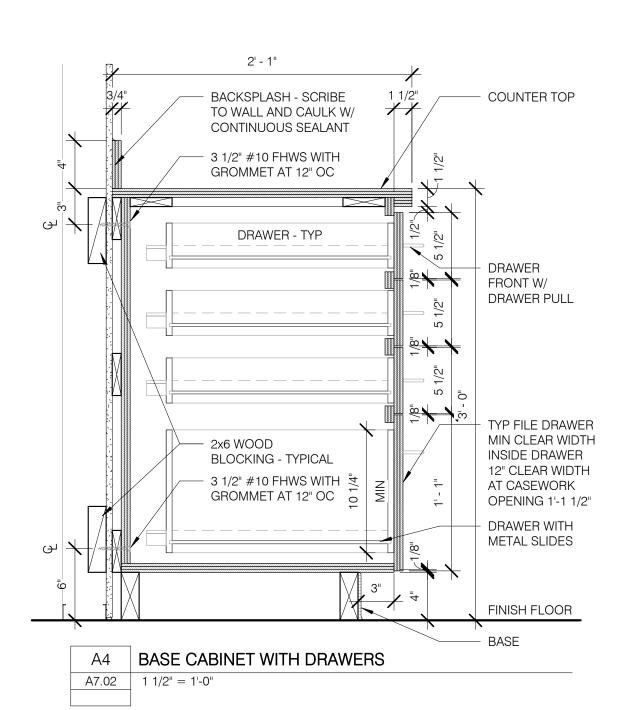
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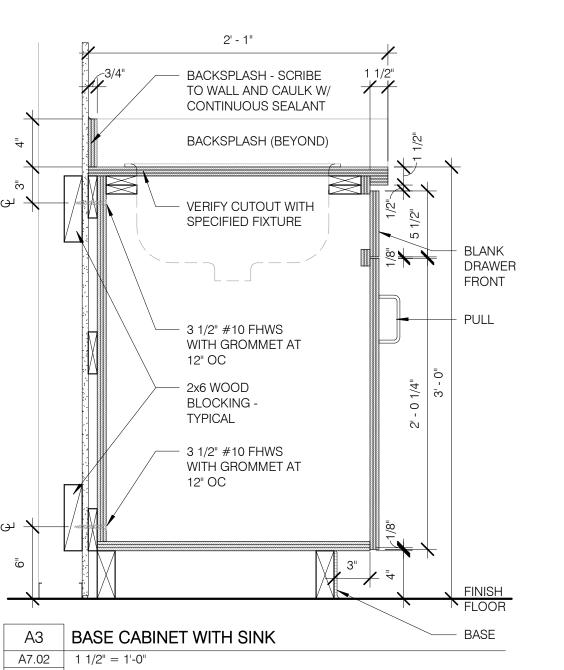
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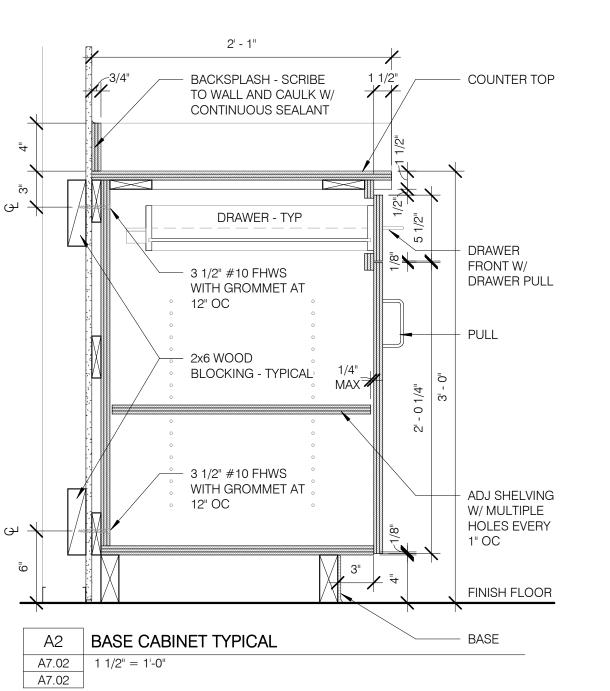
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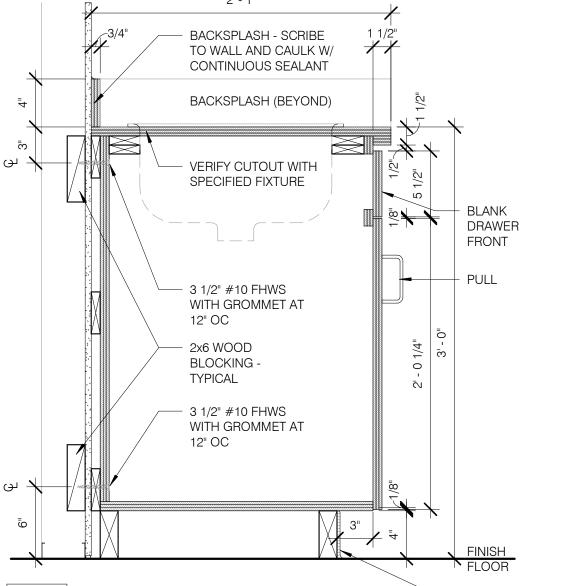


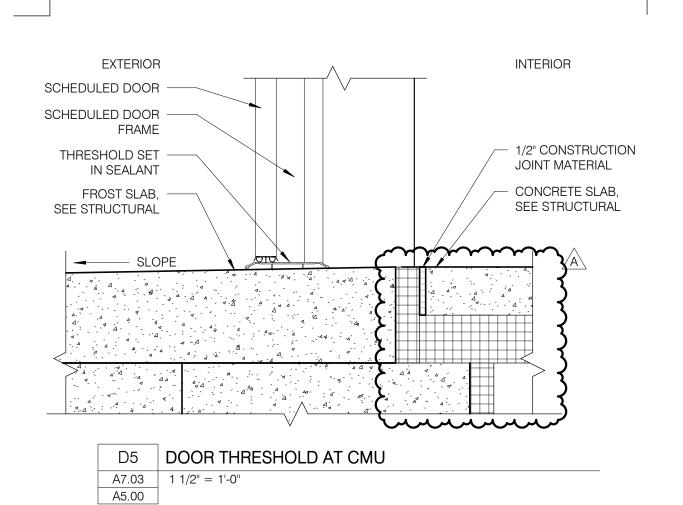


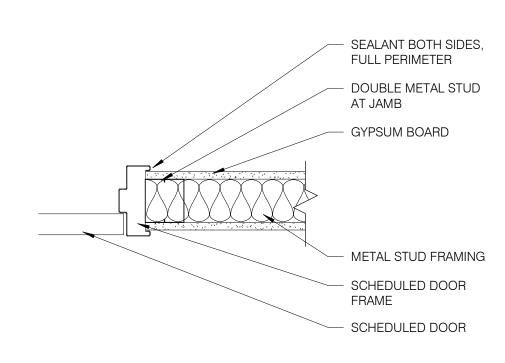


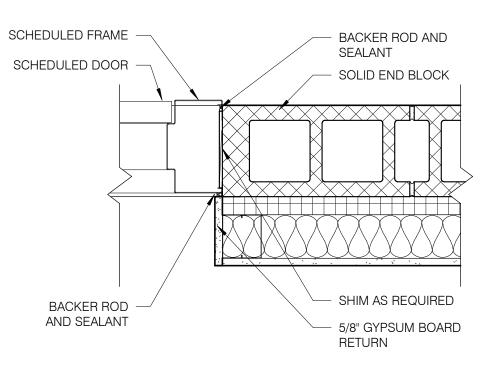


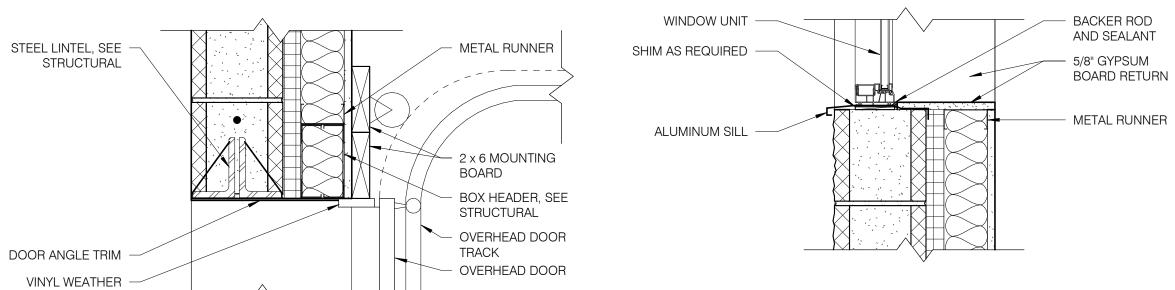


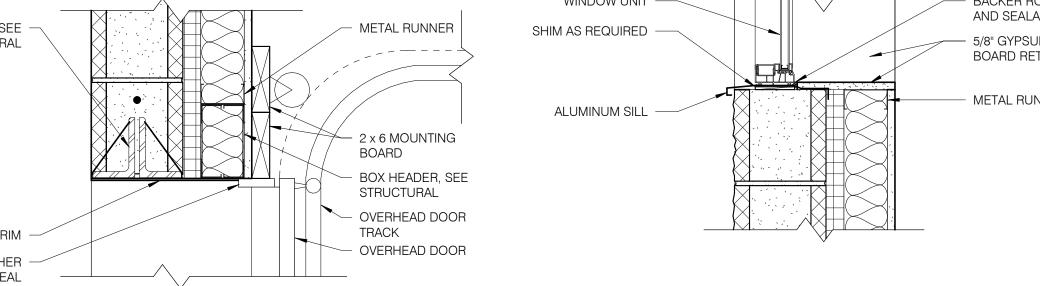


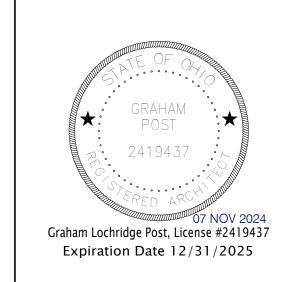












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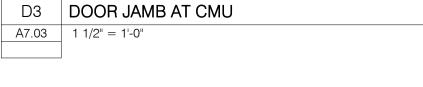
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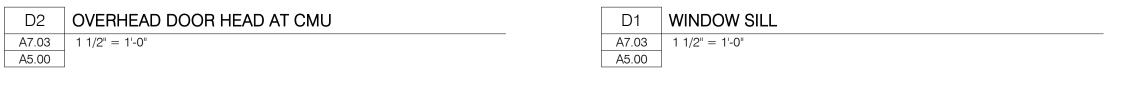
Training Facility

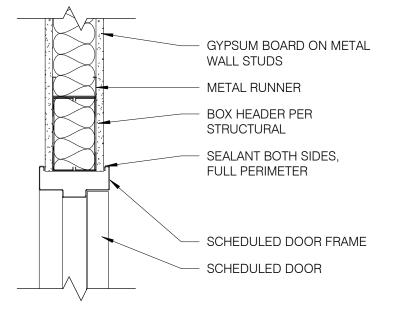
Range Building

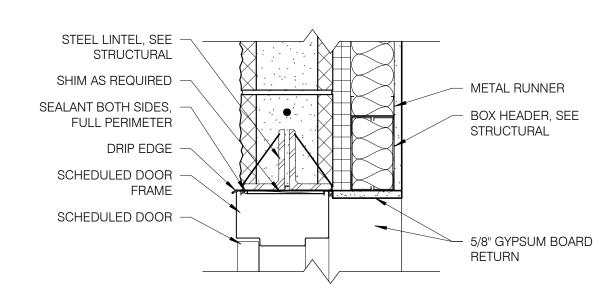
Project:

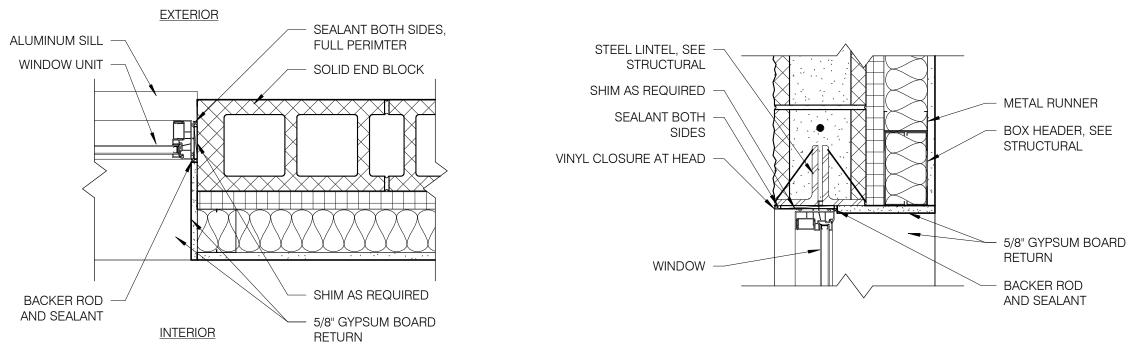


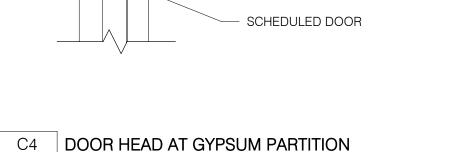












DIVIDER PANEL

METAL SPACER

U-SHAPED CHANNEL

5/8" GYP BD TYPE 'X'

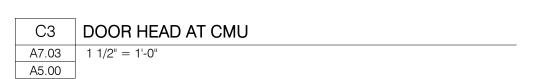
ANCHOR PLATE ATTACH

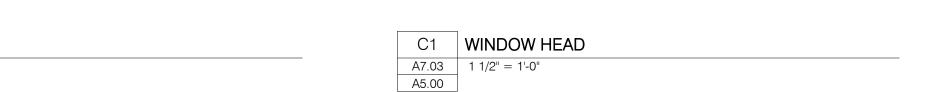
TO MIN OF 3 STUDS TYP

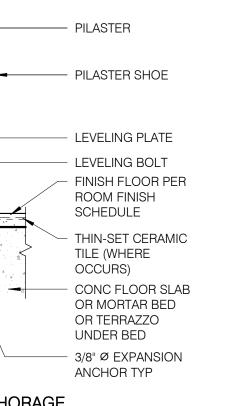
METAL STUDS @ 16" OC

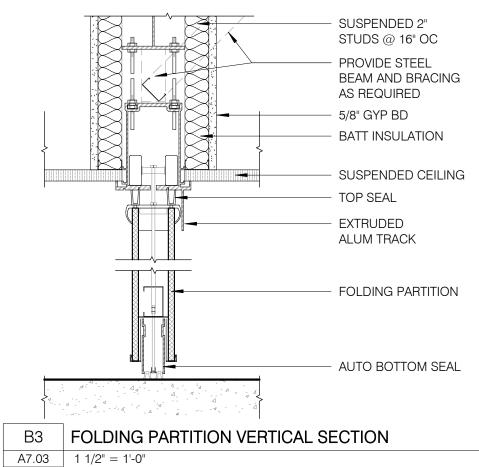
4" x 16 GA METAL

A7.03 1 1/2" = 1'-0"









A3.3 A7.03 A7.03

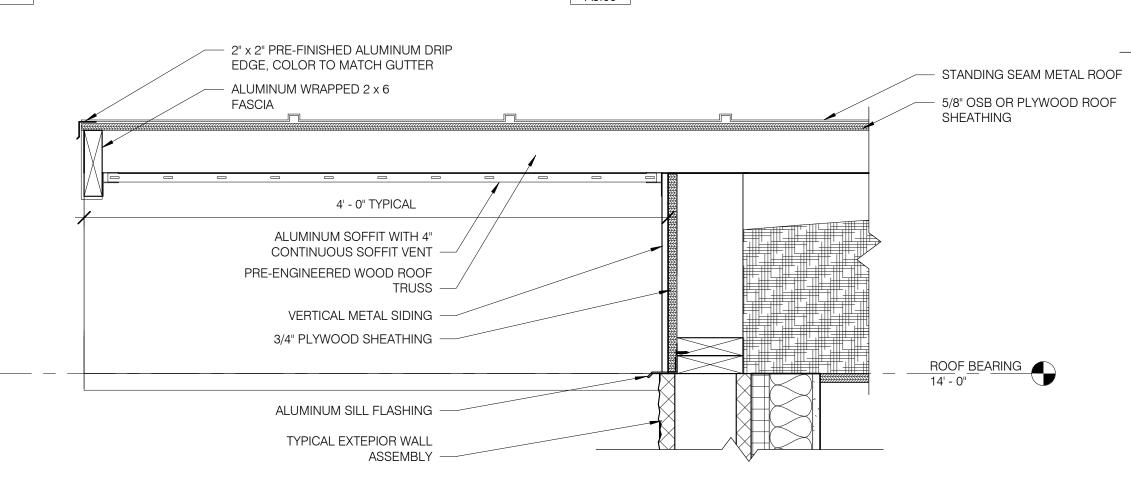
A3.1

A7.03

A3.2 A7.03

A3 FOLDING PARTITION PLAN

A7.03 1 1/2" = 1'-0"





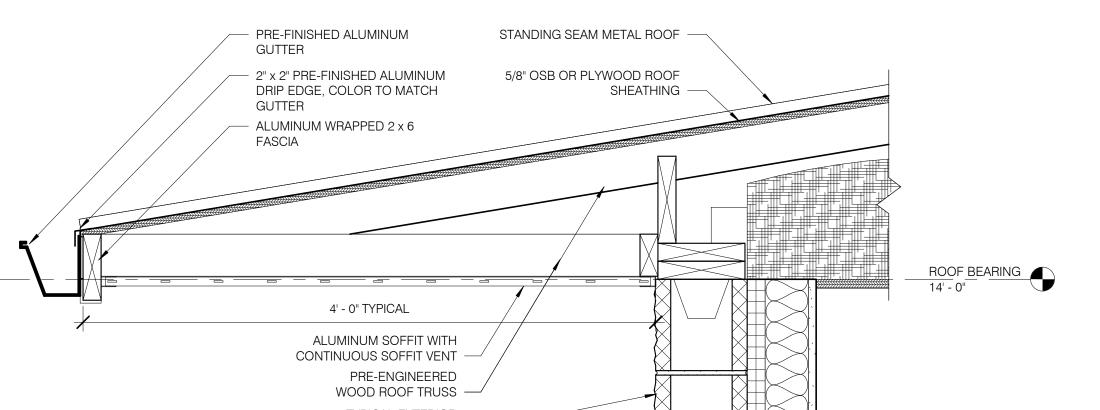


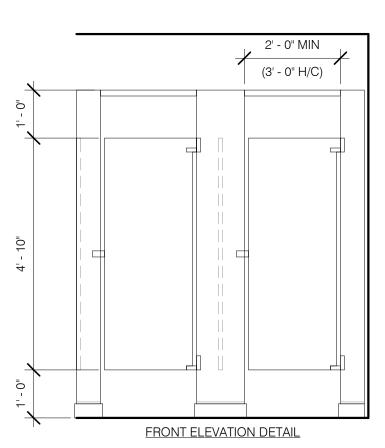
C2 WINDOW JAMB

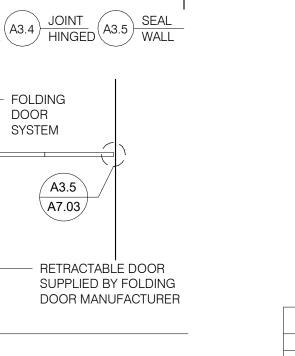
B2 **TYPICAL GABLE**

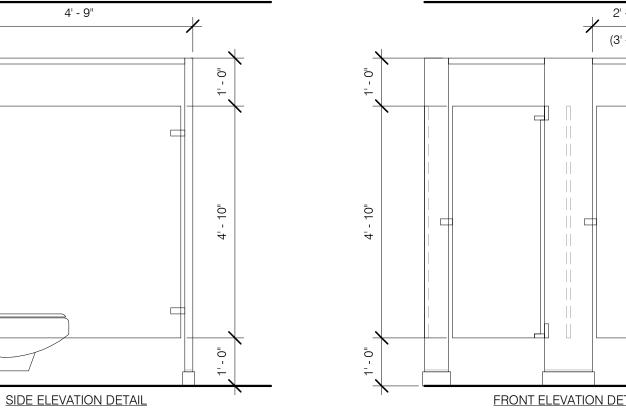
A7.03 1 1/2" = 1'-0"

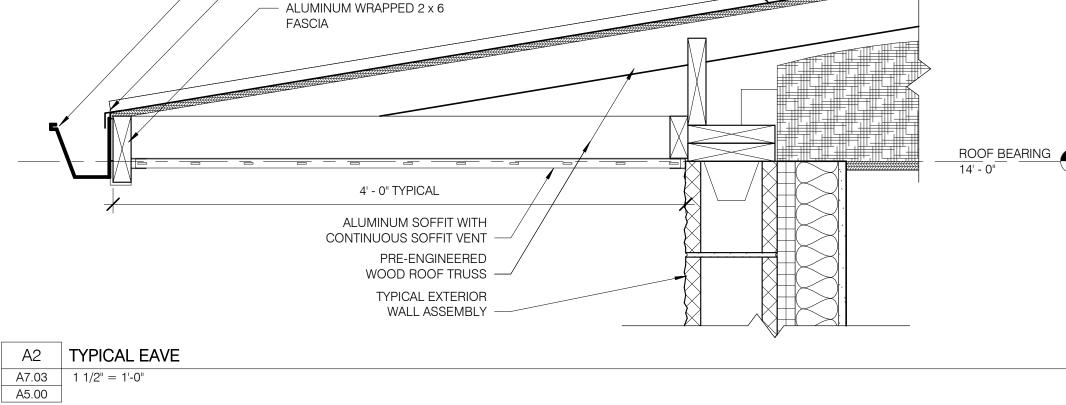
A7.03 1 1/2" = 1'-0"











A5 TOILET PARTITION - FLOOR MOUNTED / WALL BRACED A7.03 1/2" = 1'-0"

Details

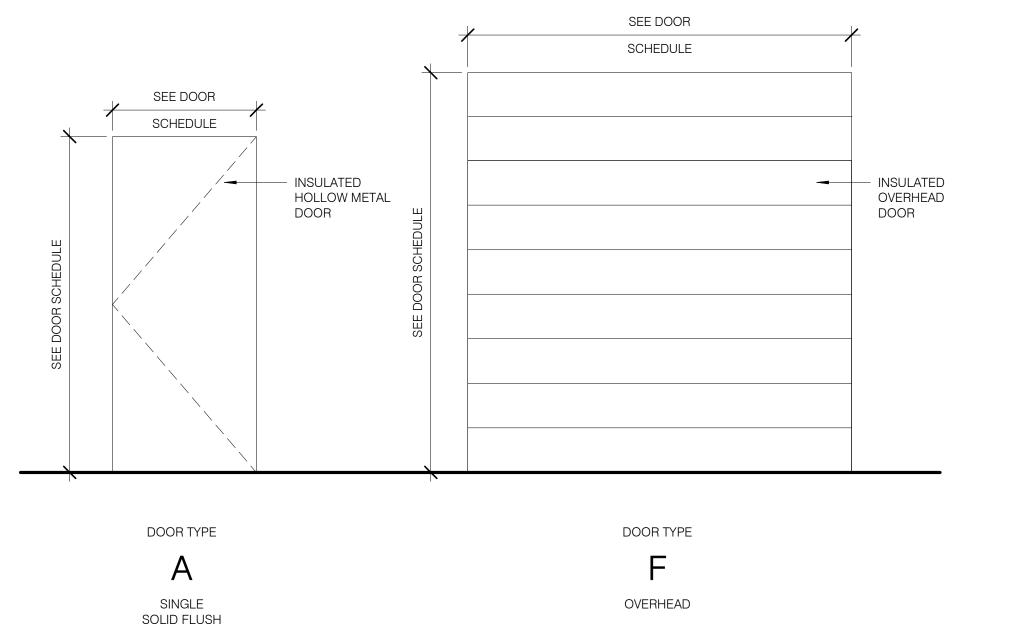
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HLM

GLP

2024



SCHEDULE

SCHEDULE

SCHEDULE

SCHEDULE

SCHEDULE

SCHEDULE

SCHEDULE

F1
HOLLOW METAL

FRAME TYPE

2" HEAD

FRAME TYPE

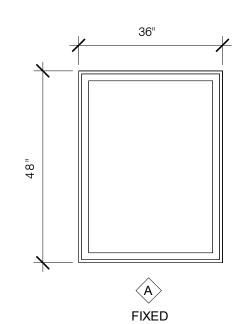
F2

HOLLOW METAL

4" HEAD

D5 DOOR AND FRAME TYPES

A8.00 1/2" = 1'-0"



WINDOW NOTES:

EXTERIOR FINISHES:

PT-5

<u>CMU</u>

CMU-1

1. ALL WINDOWS TO BE DOUBLE PANE LOW-E GLAZING.

SHERWIN WILLIAMS, COLOR: SW 6328

FIREWEED (METAL SIDING)

CONCRETE MASONRY UNIT

COLOR: SANDSTONE

FINISH LEGEND EXTERIOR

METAL PANEL

AC BUILDING PRODUCTS, METAL SIDING, COLOR: PAINTED PT-5

AC BUILDING PRODUCTS, STANDING

SEAM METAL PANEL, COLOR: DESERT

MINIMUM U-FACTOR 0.30, TYP.
 SIZES NOTED ARE ACTUAL.

C5 **WINDOW TYPE**A8.00 1/2" = 1'-0"

	FINISH LEGI	END INTERIO	DR
FLOOR:		WALLS:	
<u>CPT</u>	CARPET TILE	<u>PT</u>	PAINT
CPT-1	MANNINGTON, COLOR: SENSORY WEAVE, GAUNTLET GRAY, SIZE: 12" x 12" INSTALL: 3 VERTICAL ASHLAR	PT-1	SHERWIN WILLIAMS, COLOR: SW 7029 AGREEABLE GRAY
CT	CERAMIC FLOOR TILE	PT-2	SHERWIN WILLIAMS, COLOR: SW 7005 PURE WHITE
CT-1	DALTILE, 24" x 12" FLOOR TILE, COLOR: HAUT MONDE, EMPIRE BLACK	PT-3	SHERWIN WILLIAMS, COLOR: 7031 MEGA GREIGE
<u>LVT</u>	LUXURY VINYL TILE	PT-4	SHERWIN WILLIAMS, COLOR: SW 7674 PEPPERCORN (DOORS AND FRAMES)
LVT-1	MANNINGTON, COLOR: SPACIA STONE, JULEP		
LVT-2	MANNINGTON, COLOR: SPACIA STONE,	BASE:	
	MONUMENT CONCRETE	<u>RB</u>	RESILIENT BASE
<u>SC</u>	SEALED CONCRETE	RB-1	JOHNSONITE, 4" HIGH COVE BASE, COLOR: CHARCOAL
SC-1	H+C CONCRETE SEALER, CLEAR WET LOOK, WATER-BASED	<u>CTB</u>	CERAMIC TILE BASE
<u>TR</u>	FLOORING TRANSITION	CTB-1	DALTILE, UNIVERSAL TRIM, 2" x 2" MB-5B, COLOR: HAUT MONDE, EMPIRE
TR-1	LVT - CPT TRANSITION MANNINGTON 720 FUSION TRANSITION STRIP, COLOR: TO BE SELECTED FROM MANUFACTURER'S FULL STANDARD COLOR LINE	CASEWORK	BLACK
TR-2	LVT - CT TRANSITION	<u>PLAM</u>	PLASTIC LAMINATE
=	SCHLUTER RENO-RAMP 3/8", COLOR: TO BE SELECTED FROM MANUFACTURER'S	PLAM-1	WILSONART, COLOR: 8226K-79 DERING FOREST
	FULL STANDARD COLOR LINE	PLAM-2	WILSONART, COLOR: Y0856 EVERGREEN
TR-2	LVT - SC TRANSITION JOHNSONITE REDUCER RRS-XX-D,	PLAM-3	WILSONART, COLOR: 7850 BEIGEWOOD (COUNTERTOP ALTERNATE)
	COLOR: TO BE SELECTED FROM MANUFACTURER'S FULL STANDARD	<u>SS</u>	SOLID SURFACE
CEILING:	COLOR LINE	SS-1	WILSONART, COLOR: 9115GS ZEN GREY
<u>ACT</u>	ACOUSTICAL CEILING TILE	<u>TA</u>	TOILET PARTITIONS
ACT-1	ARMSTRONG, SCHOOL ZONE FINE FISSURED WITH HUMIGUARD PLUS, 24"x48"x3/4" SQUARE LAY-IN TILE # 1714, 15/16" PRELUDE XL SUSPENSION SYSTEM	TA-1	GENERAL PARTITIONS, FLOOR MOUNTED, OVERHEAD BRACED, COLOR: TO BE SELECTED FROM MANUFACTURER'S FULL STANDARD COLOR LINE
<u>PT</u>	PAINT	TA-2	GENERAL PARTITIONS, URINAL SCREENS, COLOR: TO BE SELECTED
PT-6	SHERWIN WILLIAMS, COLOR: SW 7007 CEILING BRIGHT WHITE (GYP. CEILINGS AND EXPOSED STRUCTURE)		FROM MANUFACTURER'S FULL STANDARD COLOR LINE

	FRAME		FRAME			DOOR			NG	OPENII
NOTES	MATERIAL	TYPE	HEIGHT	WIDTH	MATERIAL	TYPE	FIRE RATING	DOOR NUMBER		
HARDWARE SET 1.0, SEE SPECIFICATIONS	HM	F2	7' - 0"	3' - 0"	НМ	А	NONE	101		
HARDWARE SET 2.0, SEE SPECIFICATIONS	HM	F2	7' - 0"	3' - 6"	НМ	Α	90 MIN	102		
HARDWARE SET 2.0, SEE SPECIFICATIONS	HM	F2	7' - 0"	3' - 6"	НМ	Α	90 MIN	103		
HARDWARE SET 2.0, SEE SPECIFICATIONS	HM	F2	7' - 0"	3' - 6"	НМ	Α	90 MIN	104		
HARDWARE SET 2.0, SEE SPECIFICATIONS	HM	F2	7' - 0"	3' - 6"	НМ	Α	NONE	105		
HARDWARE SET 1.0, SEE SPECIFICATIONS	HM	F2	7' - 0"	3' - 0"	НМ	Α	NONE	106		
HARDWARE SET 2.0, SEE SPECIFICATIONS	HM	F2	7' - 0"	3' - 6"	НМ	Α	NONE	107		
HARDWARE SET 11.0, SEE SPECIFICATIONS	-	-	10' - 0"	8' - 6"	STL	F	NONE	108		
HARDWARE SET 11.0, SEE SPECIFICATIONS	-	-	10' - 0"	8' - 0"	STL	F	NONE	109		
HARDWARE SET 1.0, SEE SPECIFICATIONS	HM	F2	7' - 0"	3' - 6"	НМ	А	NONE	110		
HARDWARE SET 1.0, SEE SPECIFICATIONS	HM	F2	7' - 0"	3' - 0"	НМ	Α	NONE	111 A		
HARDWARE SET 10.0, SEE SPECIFICATIONS	HM	F1	7' - 0"	3' - 0"	НМ	А	45 MIN)	112		
HARDWARE SET 10.0, SEE SPECIFICATIONS	HM	F1	7' - 0"	3' - 0"	НМ	Α	45 MIN	113		
HARDWARE SET 8.0, SEE SPECIFICATIONS	HM	F1	7' - 0"	3' - 0"	НМ	А	NONE	114		
HARDWARE SET 4.0, SEE SPECIFICATIONS	HM	F1	7' - 0"	3' - 0"	НМ	Α	NONE	115		
HARDWARE SET 5.0, SEE SPECIFICATIONS	HM	F1	7' - 0"	3' - 0"	НМ	Α	NONE	116		
HARDWARE SET 5.0, SEE SPECIFICATIONS	HM	F1	7' - 0"	3' - 0"	НМ	А	NONE	117 A		
HARDWARE SET 6.0, SEE SPECIFICATIONS	HM	F1	7' - 0"	3' - 0"	HM	Α	45 MÍN 3	118		
HARDWARE SET 9.0, SEE SPECIFICATIONS	НМ	F1	7' - 0"	3' - 0"	НМ	Α	90 MIN	119		
HARDWARE SET 7.0, SEE SPECIFICATIONS	HM	F1	7' - 0"	3' - 0"	HM	А	90 MIN	120		
HARDWARE SET 7.0, SEE SPECIFICATIONS	НМ	F1	7' - 0"	3' - 0"	НМ	Α	90 MIN	121		
HARDWARE SET 3.0, SEE SPECIFICATIONS	НМ	F1	7' - 0"	3' - 0"	НМ	А	45 MIN	122		
HARDWARE SET 3.0, SEE SPECIFICATIONS	HM	F1_	7' - 0"	3' - 0"	HM		45 MIN	123		
HARDWARE SET 3.0, SEE SPECIFICATIONS		~\ \	10-12-4	ٮڮڹۣڰ	THE MAN	$oldsymbol{\psi}_{oldsymbol{\psi}}$	45 MIN	~		

NOTES:

CONTRACTOR TO FIELD VERIFY ALL DOOR OPENING DIMENSIONS.
 CARD READERS TO BE PROVIDED AND INSTALLED BY OWNER.

3. REFER TO SPECS FOR DOOR HARDWARE.

REFER TO SPECS FOR DOOR HARDWARE.
 CORES AND KEYING TO BE PROVIDED BY OWNER.

5. REFER TO FINISH LEGEND FOR DOOR AND FRAME FINISHES.6. DOOR FRAMES TO BE PAINTED TO MATCH ADJACENT WALL.

7. DOOR AND ROOM SIGNAGE TO BE PROVIDED BY OWNER.

INTERIOR FINISH SCHEDULE								
ROOM NO.	ROOM NAME	FLOOR FINISH	BASE FINISH	WALL FINISH	CEILING FINISH	CABINET	COUNTERTOP	NOTES
100	CLASSROOM A	CPT-1	RB-1	PT-1	ACT-1	-	-	
101	CLASSROOM B	CPT-1	RB-1	PT-1	ACT-1	-	-	
102	WOMEN'S RESTROOM	CT-1	CTB-1	PT-3	ACT-1	-	SS-1	
103	MEN'S RESTROOM	CT-1	CTB-1	PT-3	ACT-1	-	SS-1	
104	MULTIPURPOSE SPACE	LVT-2	RB-1	PT-1	ACT-1	-	-	
105	EQUIPMENT STORAGE	SC-1	RB-1	PT-2	ACT-1	-	-	
106	OFFICE	CPT-1	RB-1	PT-1	ACT-1	-	-	
107	OFFICE	CPT-1	RB-1	PT-1	ACT-1	-	-	
108	MEP	SC-1	RB-1	PT-2	-	-	-	
109	UTILITY	SC-1	RB-1	PT-2	-	-	-	
110	WEAPONS CLEANING	LVT-2	RB-1	PT-1	ACT-1	PLAM-1	SS-1	
111	AMMO STORAGE	LVT-2	RB-1	PT-1	GWB-1	-	-	IMPACT RESISTANT GWB CEILING WITH WIRE MESH, PT-5
112	AMMO STORAGE	LVT-2	RB-1	PT-1	GWB-1	-	-	IMPACT RESISTANT GWB CEILING WITH WIRE MESH, PT-5
113	BREAKROOM	LVT-1	RB-1	PT-2	ACT-1	PLAM-2	SS-1	PLAM-3 COUNTERTOP ALTERNATE
114	HALLWAY	LVT-1	RB-1	PT-1	ACT-1	-	-	

	TOILET ACCESSORY SCHEDULE					
TYPE	DESCRIPTION	SIZE	MATERIAL AND FINISH	BASIS OF DESIGN	ADDITIONAL INFORMATION	
1	MIRROR W/ S.S. FRAME	36" x 60"	STAINLESS STEEL ANGLE FRAME	AMERICAN SPECIALTIES 0600-6036	MANUFACTURER'S STANDARD CORNERS	
2	36" S.S. GRAB BAR	1-1/4" Ø	STAINLESS STEEL, 18 GA; SMOOTH, NO. 4 FINISH (SATIN) ON ENDS AND SLIP-RESISTANT TEXTURE IN GRIP AREA	AMERICAN SPECIALTIES 164	MOUNTING: FLANGES WITH CONCEALED FASTENERS	
3	42" S.S. GRAB BAR	1-1/4" Ø	STAINLESS STEEL, 18 GA; SMOOTH, NO. 4 FINISH (SATIN) ON ENDS AND SLIP-RESISTANT TEXTURE IN GRIP AREA	AMERICAN SPECIALTIES 167	MOUNTING: FLANGES WITH CONCEALED FASTENERS	
4	18" VERTICAL S.S. GRAB BAR	1-1/4" Ø	STAINLESS STEEL, 18 GA; SMOOTH, NO. 4 FINISH (SATIN) ON ENDS AND SLIP-RESISTANT TEXTURE IN GRIP AREA	AMERICAN SPECIALTIES 159	MOUNTING: FLANGES WITH CONCEALED FASTENERS	
5	S.S. TOILET PAPER DISPENSER - DOUBLE ROLL	6" x 12" x 6 1/2"	STAINLESS STEEL, NO. 4 FINISH (SATIN)	AMERICAN SPECIALTIES 0030	CAPACITY: UP TO 5-1/4" Ø TISSUE ROLLS	
6	S.S. COMBINATION TOWEL DISPENSER/WASTE RECEPTACLE	12 GAL	STAINLESS STEEL, NO. 4 FINISH (SATIN)	AMERICAN SPECIALTIES 0469-9	SURFACE MOUNTED; CAPACITY: 800 MULTI-FOLD PAPER TOWELS	
7	S.S. SOAP DISPENSER	40 OZ.	STAINLESS STEEL, NO. 4 FINISH (SATIN)	AMERICAN SPECIALTIES 0345	SURFACE MOUNTED; LIQUID SOAP FORM	
8	SANITARY NAPKIN DISPOSAL	1-1.5 GAL	STAINLESS STEEL, NO. 4 FINISH (SATIN)	AMERICAN SPECIALTIES 0473-A	SURFACE MOUNTED	
9	INSULATED PIPE WRAP		ANTIMICROBIAL, MOLDED PLASTIC, WHITE	TRUBRO LAV GUARD	ALLOW SERVICE ACCESS WITHOUT REMOVING COVERINGS	
10	ACCESS PANEL	16" x 16"	FATORY PRIMED, FIELD PAINTED	ACUDOR DW-5040	FLUSH ACCESS DOOR WITH CONCEALED FLANGES; CYLINDER LOCK	
11	BABY CHANGING STATION	50 LB CAPACITY	FUNGUS AND BACTERIA-RESISTANT PLASTIC	AMERICAN SPECIALTIES 9014	SURFACE MOUNTED, HORIZONTAL	

NOTE: ALL TOILET ACCESSORIES SHALL BE FROM A SINGLE SOURCE MANUFACTURER WHEN POSSIBLE.

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City of Elyria

131 Court St - Suite 101 Elyria, Ohio 44035

Project:

Public Safety Training Facility Range Building

Garden Street Elyria, Ohio 44035

Revisions:

A 11.07.2024 ADDENDUM A 0 09.26.2024 For Construction

Project Number: 5039 01 23
Drawn by: HLM
Checked by: GLP
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Schedules

A8.00

A. STRUCTURAL DESIGN

CODE | 2024 OHIO BUILDING CODE (OBC)

THERMAL FACTOR(Ct)

LIVE LOADS: ROOF:	20 PSF (REDUCIBLE)
ROOF SNOW LOADS:	
DESIGN UNIFORM ROOF SNOW LOAD	20.0 PSF
FLAT ROOF SNOW LOAD(Pf)	14.0 PSF
GROUND SNOW LOAD (Pg)	20.0 PSF
IMPORTANCE FACTOR (I)	1.0
SNOW EXPOSURE FACTOR (Ce)	1.0

STRUCTURAL ROOF MEMBERS DESIGNED FOR UNBALANCED LOAD CONDITIONS AS DETERMINED PER ASCE 7

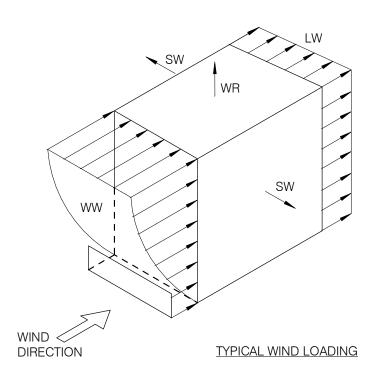
WIND DESIGN DATA

DATA.	
ULTIMATE WIND SPEED	115 MPH
RISK CATEGORY	II
MEAN ROOF HT (H)	18.7 FT
EXPOSURE CATEGORY	С
ENCLOSURE CLASSIF.	ENCLOSED BUILDING
INTERNAL PRESSURE COEF.	+/-0.18
DIRECTIONALITY (Kd)	0.85

1.0

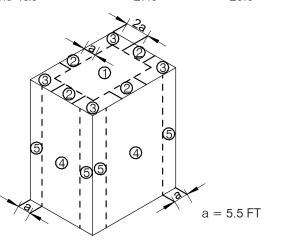
ULTIMATE MWFRS (PSF):

				WINDWARD WALL		COMBINED WW+LW
Z	Kz	Kzt	qzGCp	w/+qiGCpi	w/-qhGCpi	
0 TO 15'	0.85	1.00	16.6	12.0	21.2	27.5
18.7 FT	0.89	1.00	17.4	12.8	22.0	28.3
23.3 FT	0.93	1.00	18.2	13.6	22.8	29.1



COMPONENT AND CLADDING WIND PRESSURES (ULTIMATE LOADS):

		Su	ırface Pressure (ps	sf)
Roof	Area	10 sf	50sf	100 sf
	Negative Zone 1	-27.6	-25.8	-25.1
	Negative Zone 2	-48.1	-39.2	-35.3
	Negative Zone 3	-71.1	-60.4	-55.8
	Positive Zone 1	17.4	16.0	16.0
	Positive Zone 2&3	17.4	16.0	16.0
	Overhang Zone 2	-56.3	-56.3	-56.3
	Overhang Zone 3	-94.7	-73.2	-64.0
Wall	Area	10 sf	100 sf	500 sf
	Negative Zone 4	-29.9	-25.9	-23.0
	Negative Zone 5	-36.8	-28.7	-23.0
	Positive Zone 4&5	27.6	23.6	20.7



EARTHQUAKE DESIGN DATA: RISK CATEGORY:

RESPONSE MODIFICATION

ANALYSIS PROCEDURE:

DESIGN BASE SHEAR (V):

SEISMIC RESPONSE COEF. (Cs):

FACTOR, (R):

```
IMPORTANCE FACTOR (I):
MAPPED SPECTRAL RESPONSE ACCELERATION
                                0.133
                                0.055
                                C (PER GEOTECH REPORT)
SITE CLASS
SPECTRAL RESPONSE COEFFICIENT
                                0.106
                                0.062
SEISMIC DESIGN CATEGORY:
BASIC STRUCTURAL SYSTEM:
                                BEARING WALL SYSTEMS
                                INTERMEDIATE REINFORCED MASONRY SHEAR
SEISMIC RESISTING SYSTEM:
```

0.027

0.027W

EQUIV LATERAL-FORCE

B. GENERAL

- CONTRACTOR SHALL FIELD VERIFY ALL EXISTING DIMENSIONS AND EXISTING CONSTRUCTION PRIOR TO DEMOLITION, FABRICATION, AND CONSTRUCTION.
- THE STRUCTURE IS DESIGNED TO BE SELF-SUPPORTING AND STABLE AFTER IT IS FULLY COMPLETED. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO DETERMINE ERECTION PROCEDURES AND SEQUENCES AND ENSURE THE SAFETY OF THE CONSTRUCTION PERSONNEL, BUILDING AND ITS COMPONENT PARTS DURING ERECTION. THIS INCLUDES THE ADDITION OF WHATEVER SHORING, TEMPORARY BRACING, ETC. (BEYOND THAT DEPICTED HEREIN) THAT MAY BE NECESSARY.
- THE CONTRACTOR SHALL PERFORM ALL CONSTRUCTION ACTIVITIES FOR THE PROJECT IN A MANNER AND SEQUENCE THAT IS BASED ON ACCEPTED INDUSTRY STANDARDS THAT RECOGNIZE THE INTERACTION OF THE COMPONENTS THAT COMPRISE THE STRUCTURE WITHOUT CAUSING DISTRESS, UNANTICIPATED MOVEMENTS OR IRREGULAR LOAD PATHS AS A RESULT OF THE CONSTRUCTION MEANS AND METHODS EMPLOYED.
- THE CONTRACTOR SHALL NOTIFY THE OWNER IMMEDIATELY OF ANY INCONSISTENCIES BETWEEN THE DRAWINGS AND THE FIELD CONDITIONS THAT COULD AFFECT THE CONSTRUCTION.
- THE CONTRACTOR SHALL AT ALL TIMES KEEP THE WORK AREA AND SURROUNDING PREMISES FREE OF WASTE, SURPLUS MATERIALS, RUBBISH, AND DEBRIS RESULTING FROM THE WORK.
- MATERIALS AND EQUIPMENT NECESSARY TO COMPLETE THE WORK SHALL BE STORED AT OWNER DESIGNATED LOCATION(S).
- MATERIAL REMOVED AS PART OF ANY DEMOLITION WORK SHALL BE REMOVED AND DISPOSED OF LEGALLY OFF-SITE, UNLESS OTHERWISE DIRECTED BY THE OWNER.
- WHERE CONFLICTS ARISE BETWEEN NOTES, DRAWINGS, OR SPECIFICATIONS; THE CONTRACTOR SHALL NOT PROCEED WITH THE AFFECTED WORK UNTIL THE STRUCTURAL ENGINEER ISSUES A CLARIFICATION.

C. BUILDING PAD PREPARATION

- ALL TREES, BRUSH, ROOTS, TOPSOIL, RUBBLE, ORGANICALLY CONTAMINATED, OR OTHERWISE OBJECTIONABLE MATERIALS ENCOUNTERED ARE TO BE REMOVED FROM STRUCTURAL AREAS OF THE SITE.
- SUBGRADE SECTORS WHICH WILL EXIST IN CUT AND THOSE WHICH AREA TO SUPPORT FILL STRUCTURES ARE TO BE PROOF ROLLED. AREA EXHIBITING INSTABILITY ARE TO BE UNDERCUT AND BACKFILLED ON A LIFT-BY-LIFT BASIS WITH EACH LIFT CAREFULLY COMPACTED.
- IF UNSTABLE SUBGRADE SECTORS CANNOT BE STABILIZED BY EXCAVATION AND RE-COMPACTION, THEN CRUSHED STONE OR SIMILAR COARSE AGGREGATE MATERIALS SHALL BE ROLLED INTO THE SUBGRADE UNTIL A FIRM SUBGRADE REACTION IS ACHIEVED.
- ENGINEERED FILL SHALL BE DETERMINED BY A SOILS LABORATORY AND MATERIALS ARE TO BE PLACED IN LIFTS NOT EXCEEDING 8 INCHES IN LOOSE MEASURED THICKNESS. EACH LIFT IS TO BE COMPACTED WITHIN 2% OF THE OPTIMUM MOISTURE CONTENT AS FOLLOWS (UNLESS DIRECTED OTHERWISE BY GEOTECHNICAL REPORT):

SLAB ON GRADE: FOOTING BEARING ON FILL: MINIMUM OF 98% MAXIMUM DENSITY BY ASTM D696 MINIMUM OF 98% MAXIMUM DENSITY BY ASTM D696

THE EARTHWORK PROGRAM SHOULD BE CONDUCTED UNDER THE SUPERVISION OF A SOILS LABORATORY. THE IN-PLACE DENSITIES ACHIEVED ARE TO BE VERIFIED BY FIELD TESTING.

D. FOUNDATIONS

- FOUNDATION DESIGN BASED ON NET ALLOWABLE BEARING PRESSURE OF 3000 PSF ON UNDISTURBED SOIL OR ENGINEERED FILL, PER GEOTECHNICAL INVESTIGATION REPORT BY CTL ENGINEERING, 3085 INTERSTATE PARKWAY, BRUNSWICK, OH 44212; (330)-220-8900, REPORT DATED DECEMBER 4, 2020. BEARING PRESSURE IS TO BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO PLACEMENT OF FOUNDATIONS.
- CONTRACTOR SHALL BECOME FAMILIAR WITH THE GEOTECHNICAL REPORT PRIOR TO BUILDING PAD PREPARATION, EXCAVATION, AND CONSTRUCTION OF FOUNDATIONS. WHERE ANY CONFLICTS OCCUR BETWEEN THE SOILS REPORT AND THE DRAWINGS THE CONTRACTOR SHALL NOT PROCEED WITH THE AFFECTED WORK UNTIL THE STRUCTURAL ENGINEER ISSUES A CLARIFICATION.
- INUNDATION AND LONG TERM EXPOSURE OF BEARING SURFACES WHICH WILL RESULT IN DETERIORATION OF BEARING FORMATIONS SHALL BE PREVENTED. FOOTINGS SHALL BE PLACED IMMEDIATELY FOLLOWING FOOTING EXCAVATIONS AND BEARING SURFACE
- ALL FILL MATERIALS SHALL BE ENGINEERED STRUCTURAL FILL FREE OF ORGANIC CONTAMINANTS AND OTHER DELETERIOUS MATTER.
- THE CONTRACTOR SHALL NOTIFY THE STRUCTURAL ENGINEER OF ANY UNUSUAL SOIL
- PRIOR TO THE START OF EXCAVATIONS THE CONTRACTOR SHALL MEET WITH THE OWNER TO DETERMINE THE LOCATION OF ANY EXISTING UNDERGROUND UTILITIES OR STRUCTURES.
- WHERE FOOTINGS ARE IN CLOSE PROXIMITY OF SEWERS, DRAINS, UNDERGROUND CONDUITS AND FLOOR PIPES; BOTTOM OF ALL FOOTINGS SHALL BE AT OR BELOW INVERT ELEVATIONS OF ELEMENTS. SEE TYPICAL FOUNDATION DETAIL.
- ALL EXTERIOR SPREAD AND CONTINUOUS FOOTINGS SHALL BEAR A MINIMUM OF 3'-6" BELOW THE FINAL EXTERIOR GRADE TO PROVIDE ADEQUATE FROST PROTECTION.
- ALL INTERIOR SPREAD AND CONTINUOUS FOOTINGS SHALL BEAR A MINIMUM OF 3'-6" BELOW THE FINISHED FLOOR ELEVATION TO PROVIDE ADEQUATE BEARING.

E. CONCRETE

PERIOD

CONCRETE WORK SHALL CONFORM WITH THE LATEST EDITION OF THE FOLLOWING ACI CODES:

ACI 301 SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS ACI 305R HOT WEATHER CONCRETING COLD WEATHER CONCRETING ACI 306 ACI 318 BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE ACI 117 STANDARD SPECIFICATION TOLERANCES

FOR CONCRETE CONSTRUCTION AND MATERIALS CONCRETE SHALL DEVELOP THE FOLLOWING MINIMUM COMPRESSIVE STRENGTHS IN A 28 DAY

FOOTINGS AND ALL OTHER CONCRETE NOT NOTED 3000 PSI (MAX AGGR = 1 1/4") INTERIOR SLAB ON GRADE 4000 PSI (MAX AGGR = 1 1/4") EXTERIOR CONCRETE EXPOSED TO WEATHER OR VULNERABLE DEICERS 4500 PSI (MAX AGGR = 1 1/4")

- PROVIDE 6% AIR ENTRAINMENT (+/- 1.5%) IN ALL CONCRETE EXPOSED TO WEATHER OR VULNERABLE DEICERS.
- MAXIMUM ALLOWABLE WATER/CEMENT (w/cm) RATIO FOR FOOTINGS IS 0.55. SLAB ON GRADE WORK IS 0.45. ALL OTHER CONCRETE WORK IS 0.50.
- GROUT UNDER BASE PLATES SHALL BE 1" THICK NON-SHRINK NON-METALLIC UNLESS NOTED
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING AND INSTALLING ANCHOR BOLTS, CLIPS, INSERTS, CONNECTION PLATES, SLEEVES, SLOTS AND OTHER REQUIRED ITEMS IN ACCORDANCE WITH THE CONTRACT DRAWINGS AND IN COOPERATION WITH THE OTHER TRADES PRIOR TO PLACING THE CONCRETE.
- REINFORCING BARS SHALL MEET THE REQUIREMENTS OF ASTM A615, GRADE 60 (60,000 PSI).
- WELDED WIRE FABRIC SHALL MEET THE REQUIREMENTS OF ASTM A1064. (FLAT SHEETS ONLY).
- BARS SHALL BE CLEANED, TAGGED, FABRICATED AND PLACED IN ACCORDANCE WITH ACI 318 FOR THE YEAR REFERENCED BY THE BUILDING CODE NOTED.
- BAR SPLICES SHALL BE STAGGERED, LAP TYPE CONFORMING TO THE REQUIREMENTS OF ACI
- 318 FOR THE YEAR REFERENCED BY THE BUILDING CODE NOTED, UNLESS NOTED OTHERWISE. DETAILED SHOP DRAWINGS SHALL BE SUBMITTED TO THE CONSTRUCTION MANAGER "FOR
- REVIEW" (NOT APPROVAL) PRIOR TO FABRICATION.
- EMBEDMENT DEPTH OF DOWELS SHALL BE THE TENSION DEVELOPMENT LENGTH (Ld) IN ACCORDANCE WITH ACI 318 FOR THE YEAR REFERENCED BY THE BUILDING CODE NOTED.
- NO TACK WELDING OF REINFORCING IN THE FIELD WILL BE PERMITTED UNLESS NOTED OTHERWISE.

F. MASONRY

- ALL MASONRY MATERIALS AND CONSTRUCTION SHALL COMPLY WITH THE REQUIREMENTS OF ACI 530, LATEST EDITION.
- CONCRETE MASONRY UNITS SHALL BE NORMAL WEIGHT HOLLOW CORE UNITS LAID IN RUNNING BOND CONFORMING TO ASTM C90 WITH MINIMUM 2000 PSI NET AREA COMPRESSIVE STRENGTH AND f'm = 2000 PSI.
- GROUT SHALL CONFORM TO ASTM C476 WITH A MINIMUM 2000 PSI 28 DAY COMPRESSIVE STRENGTH.
- MORTAR SHALL BE TYPE M OR S CONFORMING TO ASTM C270 WITH A MINIMUM 1800 PSI COMPRESSIVE STRENGTH FOR ALL LOAD-BEARING, EXTERIOR, AND REINFORCED WALLS.
- PROVIDE 9 GAGE STANDARD LADDER WIRE JOINT REINFORCING CONFORMING TO ASTM A951 AT EVERY OTHER COURSE OF BLOCK.
- REINFORCING STEEL SHALL BE GRADE 60 CONFORMING TO ASTM A615. LAP BARS 52 BAR
- DIAMETERS (U.N.O.)
- 7. LAY MASONRY UNITS WITH FULL MORTAR BEDDING ON HORIZONTAL AND VERTICAL FACES.

ALL CORNERS ARE TO BE TIED IN MASONRY BOND.

G. MASONRY STEEL LINTEL SCHEDULE

1. FOR 4" BRICK VENEER AND WALLS 8" OR THICKER:

OPENING WIDTHS UP TO 4'-0" USE L31/2 x 31/2 x 5/16 ANGLE. OPENING WIDTHS OVER 4'-0" AND UP TO 5'-0" USE L4 x 31/2 x 5/16 LLV. OPENING WIDTHS OVER 5'-0" AND UP TO 6'-0" USE L5 x 31/2 x 5/16 LLV. OPENING WIDTHS OVER 6'-0" AND UP TO 8'-0" USE L6 x 31/2 x 5/16 LLV. OPENING WIDTHS GREATER THAN 8'-0" SEE PLANS.

- USE ONE ANGLE FOR EACH 4" WYTHE OF MASONRY.
- ALL LINTELS SHALL HAVE A BEARING AT EACH END OF 1 INCH PER FOOT OF OPENINGS WITH A
- ALL LINTELS SHALL BEAR ON 16" SOLID MASONRY EXTENDING 16" BEYOND END OF LINTEL.
- ALL EXTERIOR LINTELS AND EXPOSED EXTERIOR BOTTOM LINTEL PLATES SHALL BE

GALVANIZED; LINTELS SHALL BE GALVANIZED AFTER FABRICATION.

H. TIMBER TRUSS DESIGN CRITERIA

TOP CHORD

DEAD LOAD LIVE LOAD SEE STRUCTURAL DESIGN NOTES THIS DRAWING

BOTTOM CHORD 10 PSF DEAD LOAD MAXIMUM TRUSS **DEAD WEIGHT** 15 PLF

- SUBMIT TRUSS DESIGN DRAWINGS AND CALCULATIONS STAMPED BY AN ENGINEER REGISTERED IN THE GOVERNING JURISDICTION. MINIMUM LUMBER TYPE FOR TRUSSES SHALL BE MSR w/ Fb = 1,200PSI AND E = 1,200,000PSI.
- ROOF TRUSSES AND BRIDGING/BRACING SHALL BE DESIGNED TO RESIST A NET ALLOWABLE UPLIFT LOAD RESULTING FROM THE LOAD COMBINATION (0.6DL-0.6WL) OF 9.0 PSF AT PERIMETER (MARKED BY DISTANCE 'a' ON WIND LOAD DIAGRAM) AND 5.0 PSF ELSEWHERE.
- IN ADDITION TO LOAD CASES SHOWN ABOVE, THE TRUSSES SHALL BE DESIGNED IN CONJUNCTION WITH TRANSIENT LOADING INDICATED ON THIS DRAWING.
- TEMPORARY AND PERMANENT BRIDGING OF WOOD TRUSSES SHALL BE PROVIDED IN ACCORDANCE WITH THE TRUSS PLATE INSTITUTE, INC. PUBLICATION, "HIB-91, BRACING WOOD TRUSSES" COMMENTARY AND RECOMMENDATIONS". TEMPORARY BRIDGING SHALL BE FURNISHED AS REQUIRED TO MAINTAIN STABILITY, SPACING, AND TO PREVENT BUCKLING DURING ERECTION. THE FOLLOWING MINIMUM PERMANENT BRIDGING SHALL BE PROVIDED"
- BOTTOM CHORD: CONT HORIZ 2x4 @ 8'-0" OC FOR ROOF TRUSSES. PROVIDE HORIZ DIAGONAL BRIDGING @ 45 DEGREE ANGLE AT ENDS OF BUILDING AND @ 20'-0" INTERVALS
- WEB MEMBER BRIDGING: CONT HORIZ BRIDGING @ 12'-0" O.C.FOR ROOF TRUSSES. PROVIDED VERTICAL DIAGONAL BRIDGING @ 45 DEGREE ANGLE AT ENDS OF BUILDING AND @ 20'-0" INTERVALS THROUGHOUT.
- THE TOTAL LOAD DEFLECTION OF ROOF JOISTS SHALL BE LIMITED TO = SPAN/180 THE LIVE LOAD DEFLECTION OF ROOF JOISTS SHALL BE LIMITED TO = SPAN/240

THE TOTAL LOAD DEFLECTION OF FLOOR JOISTS SHALL BE LIMITED TO = SPAN/240 THE LIVE LOAD DEFLECTION OF FLOOR JOISTS SHALL BE LIMITED TO = SPAN/360

ADDITIONAL LOADS SHALL BE SUSPENDED FROM TRUSS CHORDS ONLY. HANGING LOADS MUST BE ATTACHED TO TRUSS PER TYPICAL TRUSS REINFORCING DETAIL PROVIDED ON THIS SET OF

J. STRUCTURAL DEFERRED SUBMITTALS

- DEFERRED SUBMITTALS SHALL CONFORM TO CHAPTER 17 OF THE GOVERNING BUILDING
- THE FOLLOWING ARE STRUCTURAL DEFERRED SUBMITTAL ITEMS: TIMBER TRUSSES
- THE SUBMITTALS SHALL INCLUDE BUT SHALL NOT BE LIMITED TO LAYOUT DRAWING, ANY NECESSARY SECTIONS AND/OR DETAILS, AND DESIGN CALCULATIONS STAMPED AND SIGNED BY A PROFESSIONAL ENGINEER LICENSED IN THE GOVERNING STATE.
- SUBMITTAL DOCUMENTS FOR DEFERRED SUBMITTAL ITEMS SHALL BE SUBMITTED TO THE ARCHITECT OR ENGINEER OF RECORD FOR REVIEW PRIOR TO SUBMISSION TO THE BUILDING
- TEN WORKING DAYS SHALL BE ALLOWED FOR THE ARCHITECT OR THE ENGINEER TO REVIEW EACH DEFERRED SUBMITTAL.
- THE DEFERRED SUBMITTAL ITEMS SHALL NOT BE INSTALLED UNTIL THEIR DESIGN AND SUBMITTAL DOCUMENTS HAVE BEEN APPROVED BY THE BUILDING OFFICIAL.
- 7. DEFERRED SUBMITTALS SHALL BE MADE FAR ENOUGH IN ADVANCE SUCH THAT NO DELAY IN CONSTRUCTION OCCURS

K. SPECIAL INSPECTION

- A REGISTERED ENGINEER OR TEST AGENCY WITH EXPERIENCED TECHNICIANS UNDER THE DIRECT SUPERVISION OF A REGISTERED ENGINEER TO PERFORM THE DUTIES OF THE SPECIAL INSPECTOR SHALL BE EMPLOYED. THE SPECIAL INSPECTOR SHALL BE A REGISTERED DEPUTY INSPECTOR & SHALL MEET ALL OTHER QUALIFICATIONS AS STATED IN THE GOVERNING CODE.
- THE SPECIAL INSPECTOR SHALL OBSERVE THE WORK ASSIGNED FOR THE CONFORMANCE WITH THE APPROVED DESIGN DRAWINGS AND SPECIFICATION, AND THE FOLLOWING TABLE:

<u>ITEM</u>	SPECIAL	INSPECTION REQUIRED	CODE SECTION
FABRICATION CONCRETE CO	NCTDLICTION	YES* YES	1704.2.5 1705.3
WOOD CONSTR		NO	1705.3 1705.5
SOIL		YES	1705.6
WIND RESISTAN	NCE	NO	1705.11
SEISMIC RESIST	TANCE	NO	1705.12

*SPECIAL INSPECTION IS NOT REQUIRED WHERE THE WORK IS DONE ON THE PREMISES OF A FABRICATOR REGISTERED AND APPROVED TO PERFORM SUCH WORK WITHOUT SPECIAL INSPECTIONS PER SECTION 1704.2.5.1 OF THE GOVERNING CODE.

- THE SPECIAL INSPECTOR SHALL FURNISH INSPECTION REPORTS TO THE BUILDING OFFICAL, THE ENGINEER OR ARCHITECT OF RECORD, AND OTHER DESIGNED PERSONS. ALL DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION, THEN, IF UNCORRECTED, TO THE PROPER DESIGN AUTHORITY AND TO THE BUILDING OFFICAL.
- THE SPECIAL INSPECTOR SHALL SUBMIT A FINAL SIGNED REPORT STATING WHETHER THE WORK REQUIRING SPECIAL INSPECTIONS, TO THE BEST OF THE INSPECTORS KNOWLEDGE, WAS IN CONFORMANCE WITH THE APPROVED PLANS AND SPECIFICATIONS AND THE APPLICABLE WORKMANSHIP PROVISION OF THE GOVERNING BUILDING CODE. REPORTS SHALL COMPLY WITH THE REQUIREMENTS OF SECTION 1704.2.4 OF THE GOVERNING BUILDING CODE.

. ABBREVIATIONS

BLK	BLOCKING	FOW	FACE OF WALL
BM	BEAM	FS	FAR SIDE
B.N.	BOUNDARY NAILING		(OR FOOTING STEP)
BOTT	BOTTOM	(FV)	FIELD VERIFY
BRG	BEARING	GA	GAGE
BTWN	BETWEEN	HD	HEADER
CJ	CONTROL JOINT	HR	HANDRAIL
	(OR CONSTRUCTION JOINT)	LG	LONG
COL	COLUMN	LT	LIGHT
COM	COMMON	NS	NEAR SIDE
CONC	CONCRETE	PL	PLATE
CONN	CONNECTION	PLCS	PLACES
CONT	CONTINOUS/CONTINUITY	(P.T.)	PRESSURE TREATED
(E)	EXISTING	REF	REFERENCE
EA	EACH	REQ'D	REQUIRED
EF	EACH FACE	SCH'D	SCHEDULE
EL	ELEVATION	STL	STEEL
E.N.	EDGE NAILING	T&B	TOP AND BOTTOM
EW	EACH WAY	THD	THREADED
EQUIP	EQUIPMENT	TYP	TYPICAL
FDTN	FOUNDATION	UNO	UNLESS NOTED OTHERWISE
FLG	FLANGE	WD	WOOD
F.N.	FIELD NAILING	WP	WORK POINT
FOS	FACE OF SHEATHING	WWF	WELDED WIRE FABRIC



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City of Elyria

131 Court St - Suite 101 Elyria, Ohio 44035

Project:

Public Safety Training Facil Range Building

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Revisions:

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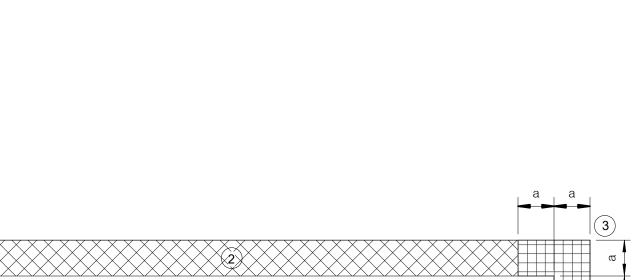
5039 01 23 Project Number: Drawn by: DLS DJC Checked by: Copyright: 2024

General Notes

 FOOTING SCHEDULE

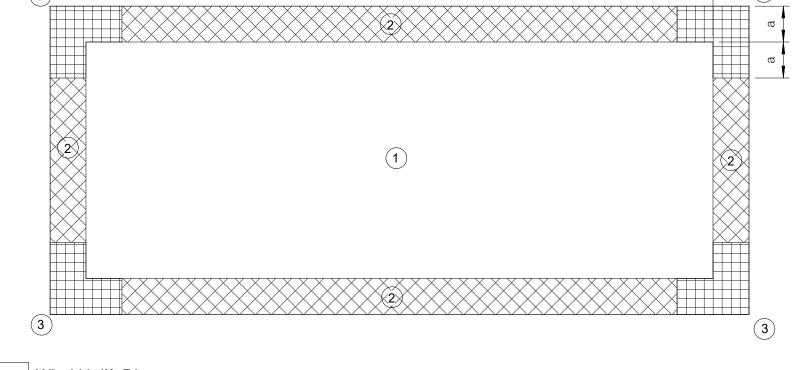
 MARK
 FTG SIZE (L x W x D)
 FTG REINFORCING

 WF2.0
 CONT. x 2'-0" x 3'-0"
 (3) #5 T&B CONT.



NET UPLIFT

-21.6 PSF



1 Wind Uplift Diagram
S0.10 3/4" = 1'-0"

GROSS WIND PRESSURE

ZONE 1: +17.4 PSF / -27.6 PSF

ZONE 2: +17.4 PSF / -48.1 PSF

ARCHITECTURE

Cleveland | Zanesville | Marietta

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Diagrams & Schedules

SO.10

PLAN NOTES

- 1. FOR GENERAL NOTES SEE DRAWING S0.00.
- 2. FOR TYPICAL FOUNDATION DETAILS SEE DRAWING S2.00.
- 3. T/SLAB AT FIRST FLOOR = 100'-0" (REFERENCE ELEVATION VARIES, SEE CIVIL).
- 4. ALL SLAB ON GRADE CONSTRUCTION SHALL BE 4" THICK SLAB-ON-GRADE REINF. w/ 6x6-W2.1xW2.1 WWF OVER 10 MIL POLY VAPOR RETARDER OVER 6" OF WELL COMPACTED GRANULAR MATERIAL ON WELL COMPACTED SUB-GRADE. CONTRACTION JOINTS SHALL BE SPACED @ 10'-0" OC MAX.
- CONTRACTION JOINTS (CJ) SHALL BE SAWN AS SOON AS POSSIBLE. TIMING OF SAW CUTS SHALL BE PER THE CONCRETE CONTRACTOR'S EXPERIENCE AND EMPLOYED MEANS AND METHODS. PROVIDE JOINT SEALER POST SAWCUT.
- CONSTRUCTION JOINT MAY REPLACE A CONTRACTION JOINT.

CONSTRUCTION JOINTS SHALL BE PROVIDED AT THE END OF ANY SINGLE POUR. A

- 7. FOR WALL OPENINGS AND ADDITIONAL DIMENSIONS SEE ARCHITECTURAL DRAWINGS.
- 8. FOOTING DESIGNATION IS AS FOLLOWS:

WFX.X DENOTES WALL FOOTING
TSX.X DENOTES THICKENED SLAB
SEE SHEET S0.10 FOR FOOTING SCHEDULE

10. PROVIDE (1) #4 x 4'-0" BAR PLACED 1" DOWN FROM T/SLAB FROM FACE OF ALL RE-ENTRANT CORNERS.



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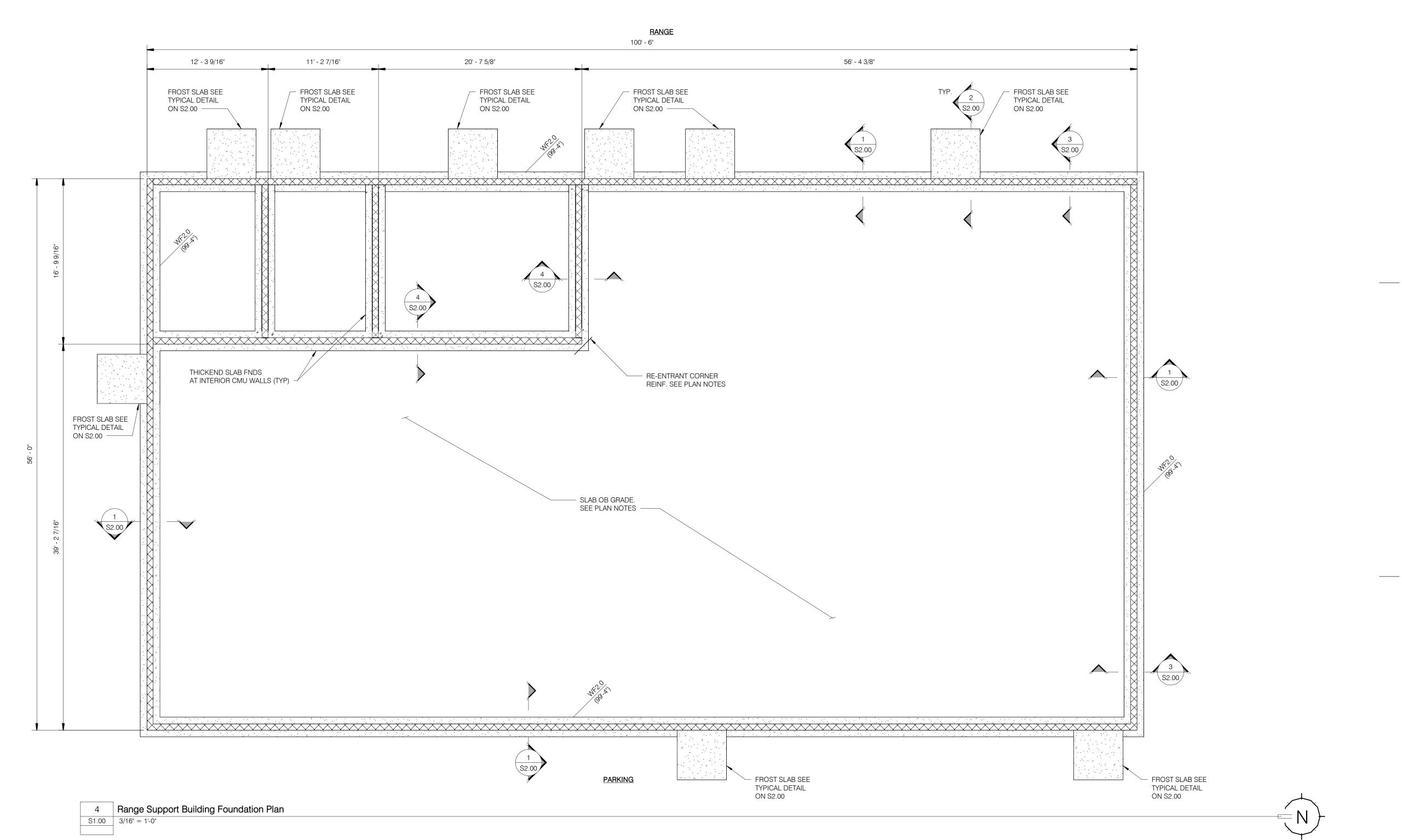
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Foundation Plan

S1.00



PLAN NOTES

- 1. FOR GENERAL NOTES SEE DRAWING S0.00.
- 2. FOR TYPICAL FRAMING DETAILS SEE DRAWING S3.00.
- 3. SEE FOUNDATION PLAN FOR DIMENSIONS.
- 4. SEE OVERALL SITE PLAN FOR BUILDING ORIENTATION RELATIVE TO NORTH.
- 5. SEE PLAN FOR TRUSS BEARING ELEVATIONS.
- 6. SEE PLAN FOR T/WALL ELEVATIONS.
- ROOF SHEATHING SHALL BE 5/8" APA-RATED SHEATHING (32/16) W/ 8d NAILS @ 6" OC AT ALL PANEL EDGES (E.N.) AND 6" OC AT INTERMEDIATE PANEL SUPPORTS (F.N.), BLOCKED (UNO).
- 8. L-X DENOTES LOOSE LINTEL HEADER, SEE DRAWING S0.00 FOR HEADER SCHEDULE.



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Public Safety

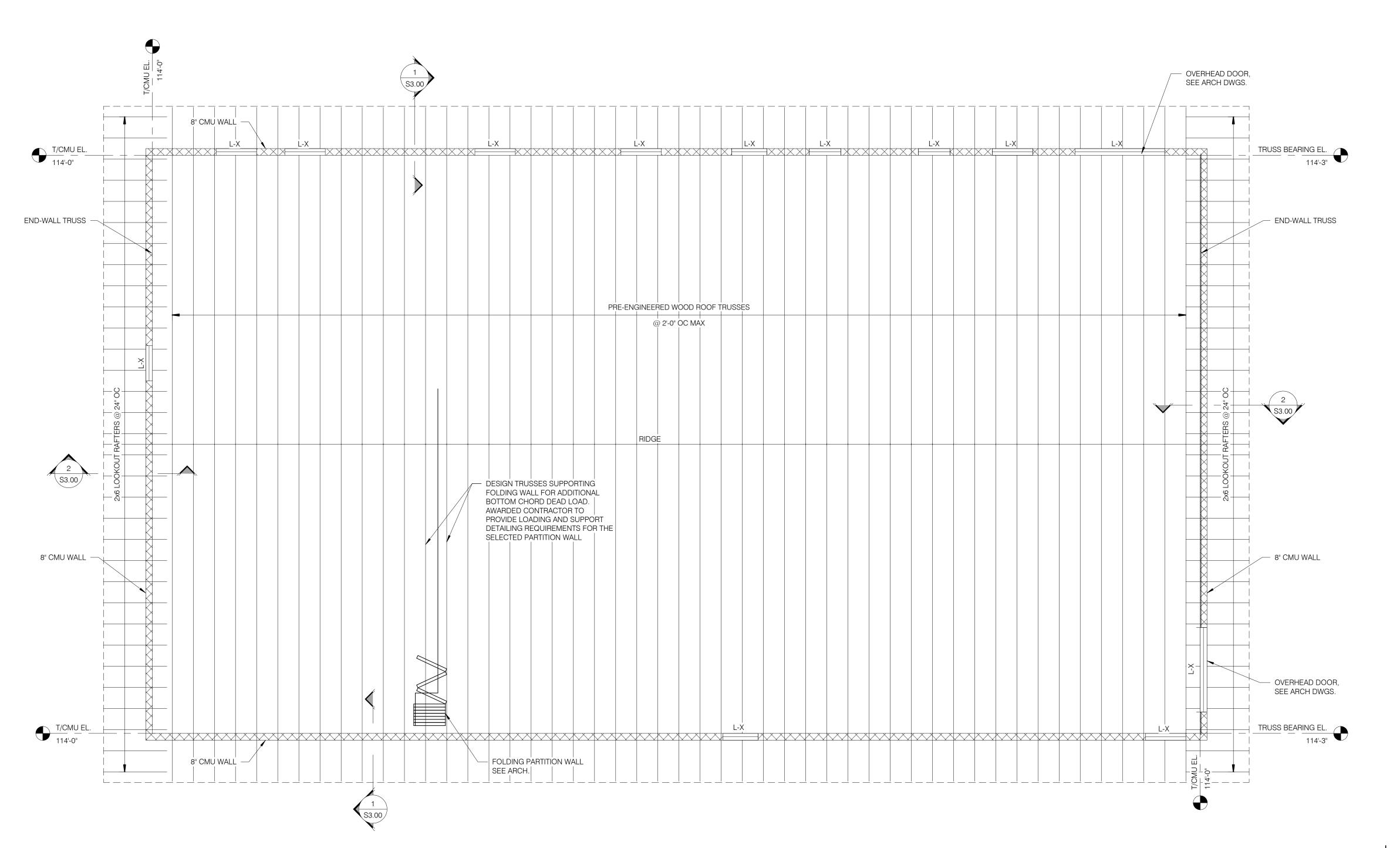
Garden Street Elyria, Ohio 44035

Training Facility

Range Building

Project:





1 Range Support Building Roof Framing Plan

S1.20 3/16" = 1'-0"

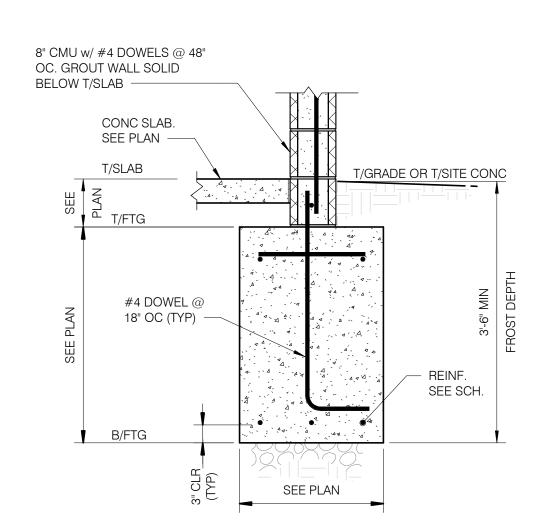
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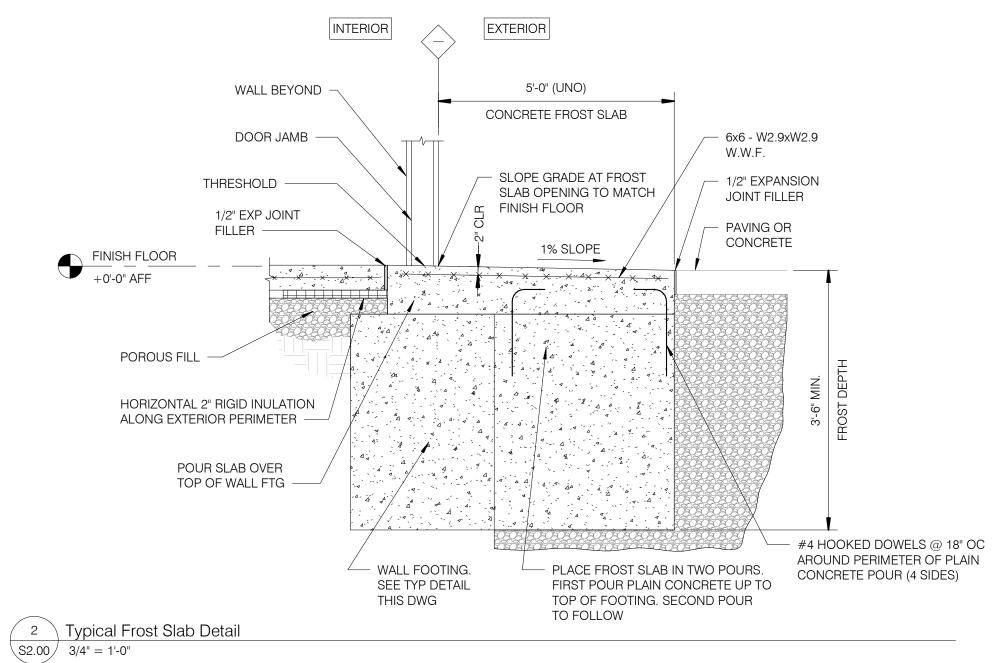
DLS DJC Checked by: 2024 Copyright:

Revisions:

Roof Framing Plan

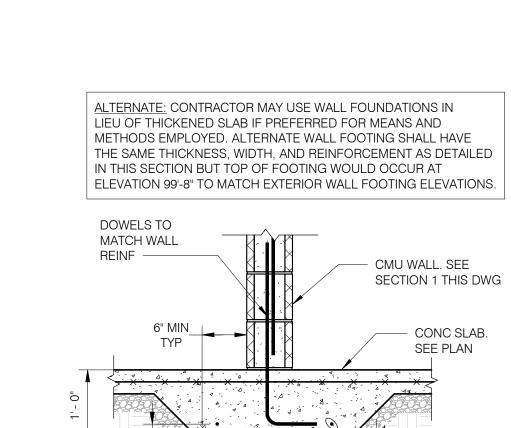






COORDINATE THRESHOLD LOCATIONS WITH ARCHITECT WALL BEYOND -SLAB ON GRADE BY OTHERS — BREAKER (TYP) SITE CONC. SEE CIVIL FINISH FLOOR +0'-0" AFF W WALL FTG. SEE SECT 1 ON S2.00 -SEE PLAN

3 Overhead Door Threshold Detail S2.00 3/4" = 1'-0"



Typical Thickened Slab at Non-Bearing Interior Wall Footing

3/4" = 1'-0"

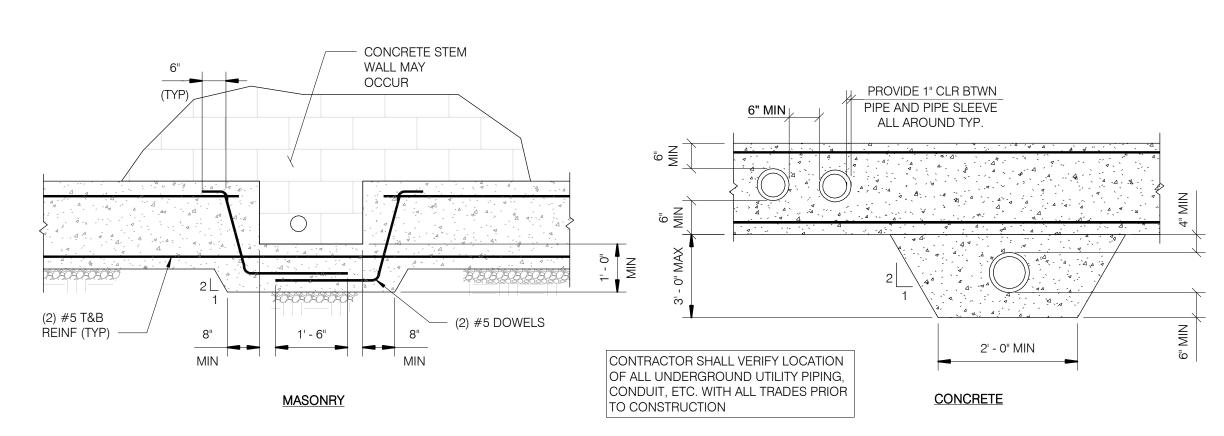
- CONC SLAB.

SEE PLAN

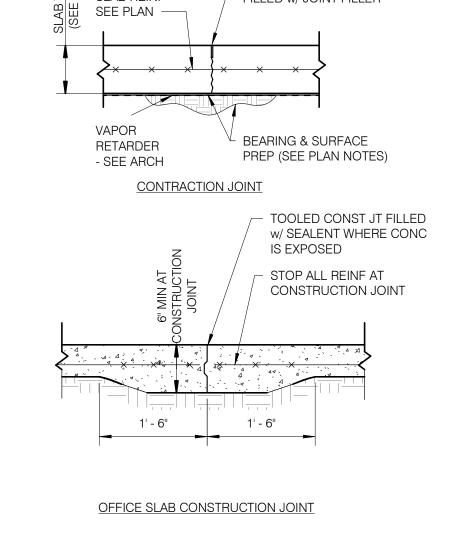
(2) #4 CONT

VAPOR RETARDER

(SEE ARCH)



5 Typical Utility Line Penetration Detail S2.00 1/2" = 1'-0"



- (1/4")x(T/4") SAW CUT FILLED w/ JOINT FILLER

6 Typical Slab On Grade Detail S2.00 NONE

SLAB REINF -

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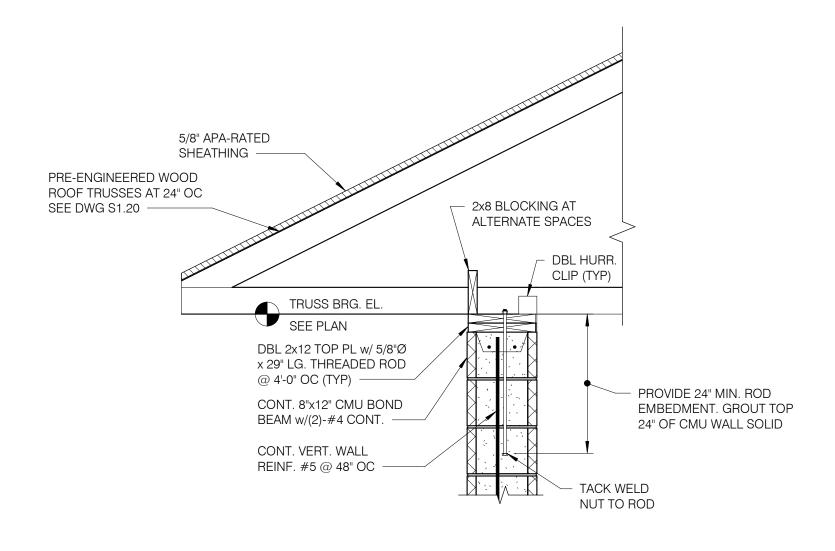
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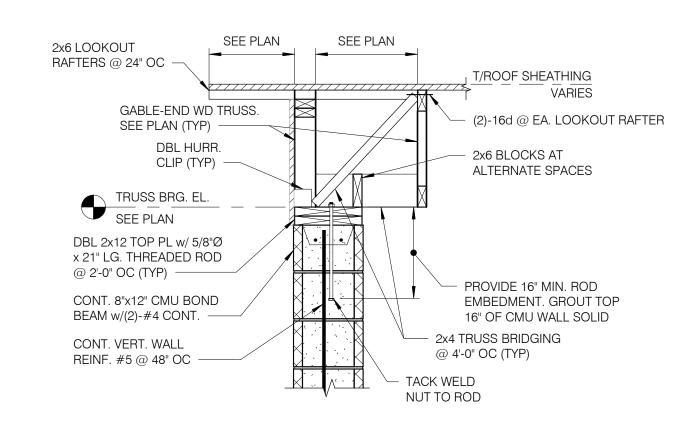
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Foundation Details & Sections



1 Section S3.00 3/4" = 1'-0"



2 Section S3.00 3/4" = 1'-0" Cleveland | Zanesville | Marietta

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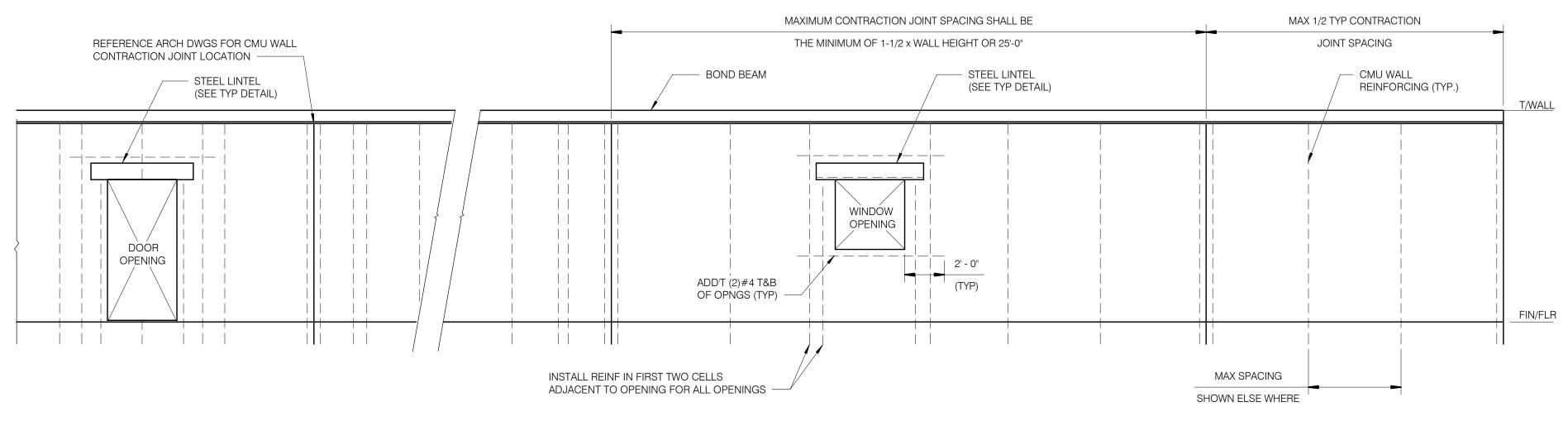
Revisions:

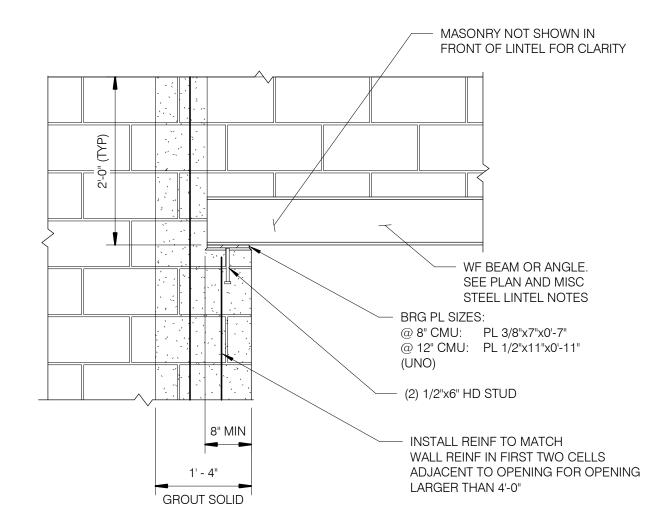
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Framing Details & Sections

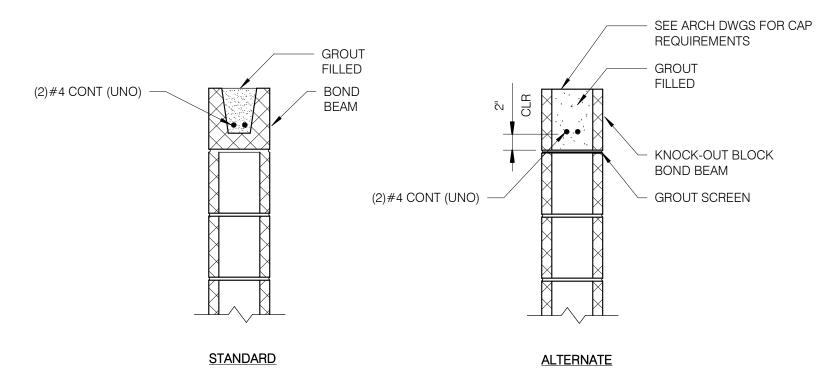
S3.00

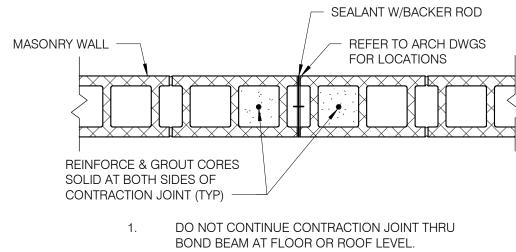




1 Typical CMU Wall Reinforcing Detail S5.00 1/4" = 1'-0"

2 Typical Beam Bearing Detail S5.00 3/4" = 1'-0"





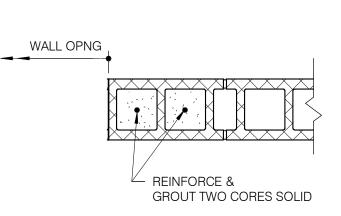
AT CONTRACTION JOINTS.

SCORE MASONRY AT T/WALL BOND BEAM.
REINFORCEMENT IN BOND BEAM TO BE
CONTINUOUS ACROSS CONTRACTION JOINT.
DISCONTINUE HORIZONTAL JOINT REINFORCING

12'-0" OF CORNERS, AND SPACED NOT TO EXCEED 25'-0" OC

CONTRACTION JOINTS SHALL BE PLACED WITHIN





3 Typical Bond Beam Detail S5.00 1" = 1'-0"

4 MASONRY CONTRACTION JOINT DETAIL S5.00 SCALE: NONE

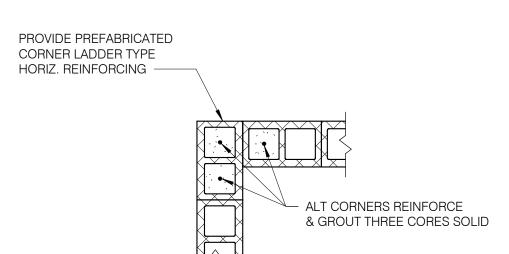
5 Typical Steel Lintel Detail
S5.00 1" = 1'-0"

/ WALL OPNG REINF.

WALL SYSTEM
THICKNESS

LINTEL SEE SCH'D ON S0.10

6 Typical Wall Opng Detail
S5.00 1" = 1'-0"



7 CMU Corner Detail

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Typical Masonry Details

\$5.00



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Garden Street

Elyria, Ohio 44035

	BREVIATIONS	PLUMBING SYMBOLS	GENE	RAL NOTES
(ALL ABB) AG	REVIATIONS ARE NOT NECESSARILY USED) ABOVE GRADE		1. THE WORK	SHALL CONFORM TO ALL APPLICABLE LOCAL, STATE AND CODES.
ADD ADDL ADJ	ADDENDUM ADDITIONAL ADJUSTABLE	——— EXISTING PLUMBING ——— NEW PLUMBING		FY EXISTING CONDITIONS PRIOR TO PERFORMING ANY ON, FABRICATION, OR CONSTRUCTION WORK.
AFF AFG ALT	ABOVE FINISH FLOOR ABOVE FINISH GRADE ALTERNATE	© CONNECT NEW TO EXISTING. VERIFY FIELD CONDITIONS.	3. ALL DIMEN	SIONS AND ELEVATIONS NOTED AS "(REF)" ARE FOR E ONLY AND SHALL BE FIELD VERIFIED BY THE
BFF BFG	BELOW FINISH FLOOR BELOW FINISH GRADE	CIRCUIT SETTER		OR PRIOR TO USING THEM FOR ANY CONSTRUCTION
BG	BELOW GRADE	BALL VALVE OR SHUT-OFF VALVE		OR SHALL REVIEW AND BECOME FAMILIAR WITH ALL
CA CO	COMPRESSED AIR CLEANOUT	SPRING CHECK VALVE		CONDITIONS PRIOR TO COMMENCING WORK. ANY NS NOT DOCUMENTED ON THESE DRAWINGS OR OBSERVED
CO2 COL	CARBON DIOXIDE COLUMN	PRESSURE REDUCING VALVE (PRV)		ERENT THAN THOSE SHOWN ON THESE DRAWINGS ARE TO FED TO THE ENGINEER AND OWNER PRIOR TO
CONT	COLOMN CONTINUATION COLD WATER	RPZ VALVE OR BACKFLOW PREVENTER	COMMENC	ING THE WORK.
DN	DOWN	P HAMMER ARRESTOR (PISTON TYPE)	SUBMIT ALI	OR SHALL CONTACT LOCAL UTILITIES AS REQUIRED. L NOT PRIOR SUBMITTED PERMIT DOCUMENTS,
DW	DISHWASHER	► HAMMER ARRESTOR (BELLOWS TYPE)	ASSOCIATE	TIONS, ETC. AND BE RESPONSIBLE FOR ALL FEES ED WITH PERMITS, UTILITY EXTENSIONS, TAP-INSPECTIONS,
EC EQ	ELECTRICAL CONTRACTOR EQUAL	—▶ PIPE REDUCER FITTING	OWNER'S F	ENGINEER SHALL SUBMIT CONSTRUCTION DOCUMENTS FOR REVIEW AND PERMIT PLAN REVIEW; HOWEVER, THE TOR WILL BE RESPONSIBLE FOR OBTAINING THE PERMITS,
FCO FD	FLOOR CLEANOUT FLOOR DRAIN	E END CAP		SSOCIATED PERMIT AND INSPECTION COSTS/FEES.
FLR FT	FLOOR FOOT, FEET FURNACE	PIPE CONNECTION	DEBRIS RE	RACTOR SHALL BE RESPONSIBLE FOR REMOVAL OF ALL SULTING FROM DEMOLITION AND/OR CONSTRUCTION WORK
•		FLOW DIRECTION ARROW	ON THIS PF	ROJECT.
G GAL GC	GAS GALLON GENERAL CONTRACTOR	PIPING ELBOW DOWN	SCHEDULE	CONTRACTOR IS RESPONSIBLE TO COORDINATE AND ETHEIR WORK WITH THE GENERAL CONTRACTOR AND ALL NTRACTORS WHOSE WORK WILL BE AFFECTED BY THEIR
GD GPM	GARBAGE DISPOSAL GALLONS PER MINUTE	•— PIPING ELBOW UP OR PIPING RISER UP & DOWN	WORK.	NTRACTORS WHOSE WORK WILL BE AFFECTED BY THEIR
GW HW	GREASY WASTE HOT WATER	PIPING TEE DOWN		T THE SITE BY CONSTRUCTION PERSONNEL SHALL BE THE LOCATIONS DESIGNATED BY THE OWNER/OWNER'S
HWR	HOT WATER RETURN	PIPING TEE UP OR PIPING RISER UP & DOWN	REPRESEN	
IE	INVERT ELEVATION	•── HOSE BIB OR WALL HYDRANT	LINET	YPE LEGEND
LA LP	LABORATORY AIR LIQUID PROPANE	M FLOW METER		SANITARY - SAN
MA	MEDICAL AIR	PRESSURE REGULATOR	_	SANITARY BELOW GRADE- SAN
MANUF MC	MANUFACTURER MECHANICAL CONTRACTOR			VENT - V
MECH MIN	MECHANICAL MINIMUM	CIRCULATING PUMP (HOT WATER RETURN)		— — — NATURAL GAS - NG — — — HOT WATER - HW
MV	MEDICAL VACUUM	NEW TO EXISTING PIPE CONNECTION		HOT WATER RETURN - HWR
N NG	NITROGEN NATURAL GAS	# KEYNOTE SYMBOL		COLD WATER - CW
NPCW NPHW NTS	NON POTABLE COLD WATER NON POTABLE HOT WATER NOT TO SCALE	REVISION MARK		
O2	OXYGEN	FIRESTOP SCHEDULE		
OS	OPEN SITE DRAIN	PENETRATION	RATING	U.L. SYSTEM
PC PLBG	PLUMBING CONTRACTOR PLUMBING	INSULATED METAL PIPE THROUGH GYPSUM BOARD	1 OR 2 HOUR	HILTI UL #WL5029 OR APPROVED EQUAL
PRES	PRESSURE	INSULATED METAL PIPE THROUGH MASONRY/CONCRETE	2 HOUR	HILTI UL #CAJ5091 OR APPROVED EQUAL
QTY	QUANTITY	INSULATED METAL PIPE THROUGH POURED CONCRETE FLOOR SLAB	2 HOUR	HILTI UL #CAJ5091 OR APPROVED EQUAL
REG RO	REGULATOR REVERSE OSMOSIS	METAL PIPE THROUGH GYPSUM BOARD METAL PIPE THROUGH MASONRY/CONCRETE	1 OR 2 HOUR 2 HOUR	HILTI UL #WL1054 OR APPROVED EQUAL HILTI UL #CAJ1291 OR APPROVED EQUAL
SAN	SANITARY	METAL PIPE THROUGH POURED CONCRETE FLOOR SLAB	3 HOUR	HILTI UL #FA1017 OR APPROVED EQUAL
SCH	SCHEDULE	PLASTIC PIPE THROUGH GYPSUM BOARD	1 OR 2 HOUR	HILTI UL #WL2078 OR APPROVED EQUAL
SCW SHW	SOFT COLD WATER SOFT HOT WATER	PLASTIC PIPE THROUGH MASONRY/CONCRETE	2 HOUR	HILTI UL #CAJ2271 OR APPROVED EQUAL
SPEC SS	SPECIFICATIONS STAINLESS STEEL	PLASTIC PIPE THROUGH POURED CONCRETE FLOOR SLAB	3 HOUR	HILTI UL #FA2054 OR APPROVED EQUAL
TEMP TW TYP	TEMPORARY TEPID WATER TYPICAL UNLESS NOTED OTHERWISE	NOTES: 1. FIRESTOP ASSEMBLY TYPE SHALL BE DETERMINED BY THE WALL OR FLOOR, IN ACCORDANCE WITH ASTM E814. FIRE RATING OF THE ASSEMBLY SHALL BE 2. ACCEPTABLE FIRE BARRIER PRODUCTS: HILTI 'FS-ONE', NELSON 'FLAMESEAI 3. IF REQUESTED, THE CONTRACTOR SHALL SHOW PROOF OF COMPLIANCE B THE ARCHITECT/ENGINEER.	EQUIVALENT TO THE V L' OR APPROVED EQUA	VALL OR FLOOR/CEILING ASSEMBLY RATING. AL AS MANUFACTURED BY 3M.
V VTR	VENT VENT THRU ROOF			
W/ W/O WA WCO WC WC	WITH WITHOUT WASTE ANESTHESIA WALL CLEANOUT WATER CLOSET WATER COLUMN			

EXISTING

Plumbing Sheet List Sheet Number | Sheet Name | Discipline Order Plumbing Symbols, Notes 4 - PLUMBING & Abbreviations Below Ground 4 - PLUMBING Plumbing Plan First Floor 4 - PLUMBING Plumbing Plan P2.00 Plumbing 4 - PLUMBING Details and Diagrams 4 - PLUMBING Plumbing Schedules Isometric 4 - PLUMBING Plumbing Plans



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Garden Street Elyria, Ohio 44035

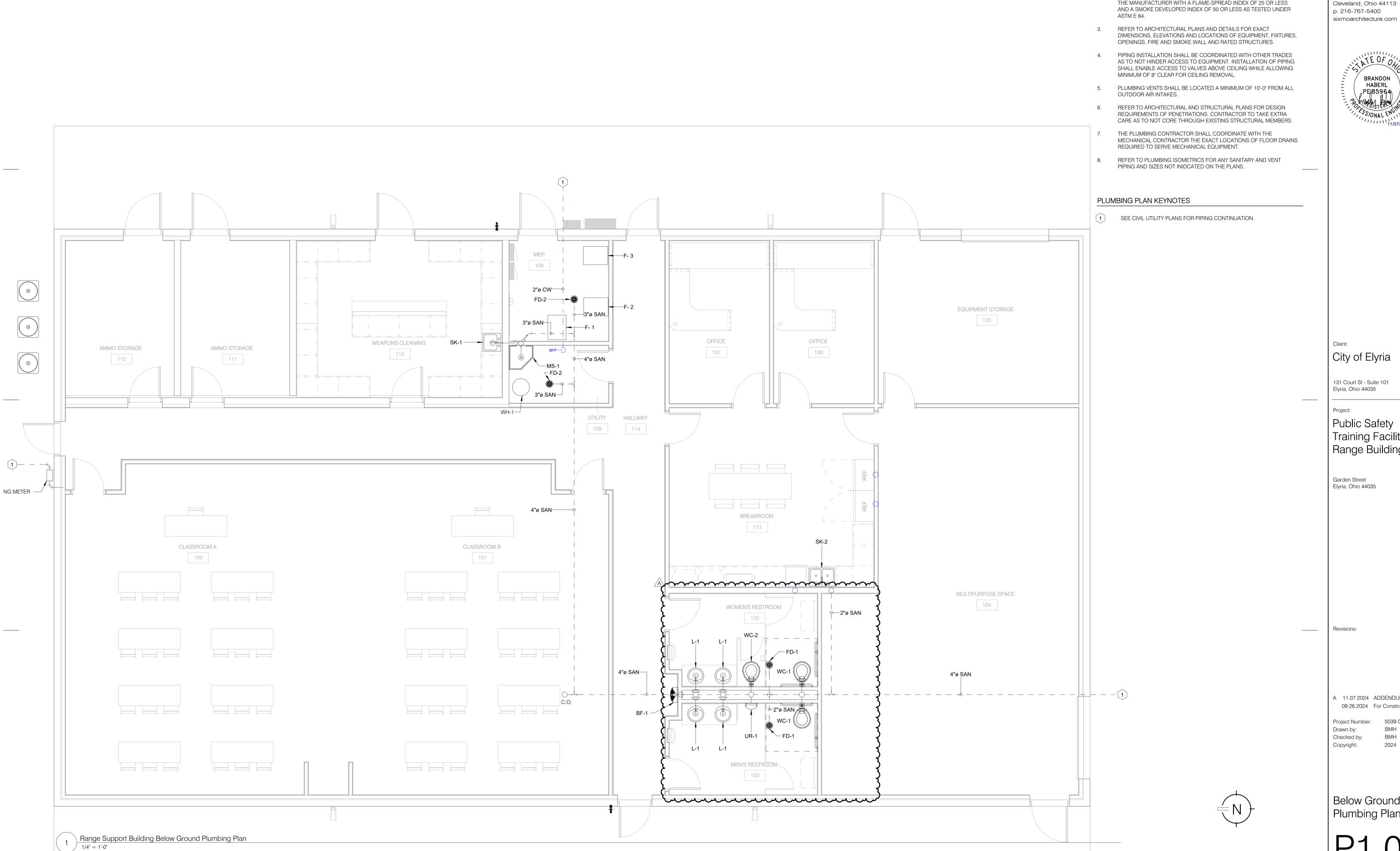
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Plumbing Symbols, Notes & Abbreviations

PO.00



PLUMBING GENERAL NOTES

- 1. THE PLUMBING CONTRACTOR SHALL COORDINATE FINAL ELECTRICAL REQUIREMENTS OF EQUIPMENT PRIOR TO ORDERING.
- 2. PVC PIPING SHALL NOT BE ALLOWED WITHIN A RETURN AIR PLENUM. ALL PIPING UTILIZED IN A RETURN AIR PLENUM IS TO BE LABELED BY THE MANUFACTURER WITH A FLAME-SPREAD INDEX OF 25 OR LESS



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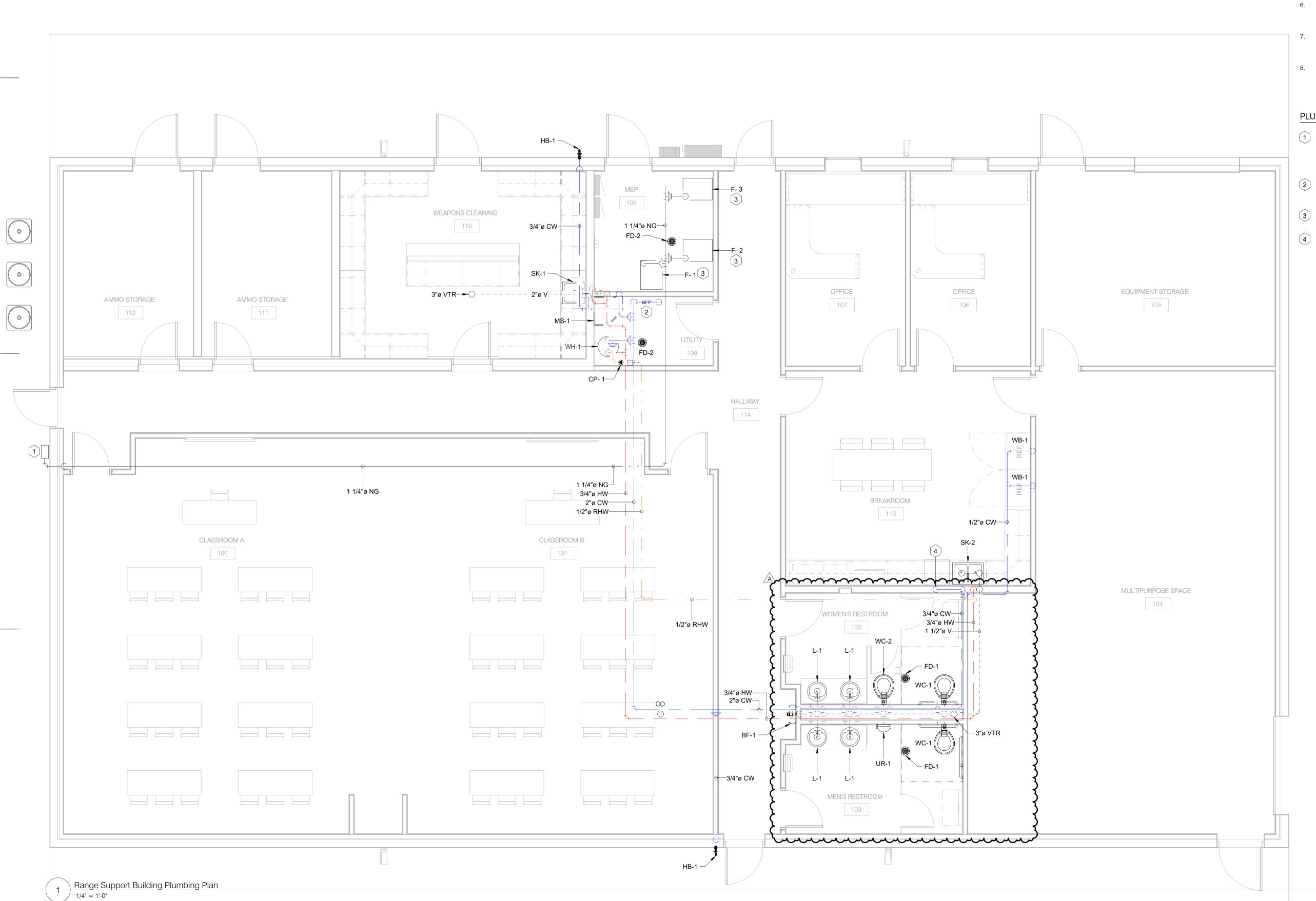
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Below Ground Plumbing Plan



PLUMBING GENERAL NOTES

- 1. THE PLUMBING CONTRACTOR SHALL COORDINATE FINAL ELECTRICAL REQUIREMENTS OF EQUIPMENT PRIOR TO ORDERING.
- 2. PVC PIPING SHALL NOT BE ALLOWED WITHIN A RETURN AIR PLENUM. ALL PIPING UTILIZED IN A RETURN AIR PLENUM IS TO BE LABELED BY THE MANUFACTURER WITH A FLAME-SPREAD INDEX OF 25 OR LESS AND A SMOKE DEVELOPED INDEX OF 50 OR LESS AS TESTED UNDER ASTM E 84.
- REFER TO ARCHITECTURAL PLANS AND DETAILS FOR EXACT DIMENSIONS, ELEVATIONS AND LOCATIONS OF EQUIPMENT, FIXTURES, OPENINGS, FIRE AND SMOKE WALL AND RATED STRUCTURES.
- 4. PIPING INSTALLATION SHALL BE COORDINATED WITH OTHER TRADES AS TO NOT HINDER ACCESS TO EQUIPMENT. INSTALLATION OF PIPING SHALL ENABLE ACCESS TO VALVES ABOVE CEILING WHILE ALLOWING MINIMUM OF 8" CLEAR FOR CEILING REMOVAL.
- 5. PLUMBING VENTS SHALL BE LOCATED A MINIMUM OF 10'-0" FROM ALL OUTDOOR AIR INTAKES.
- 6. REFER TO ARCHITECTURAL AND STRUCTURAL PLANS FOR DESIGN REQUIREMENTS OF PENETRATIONS. CONTRACTOR TO TAKE EXTRA CARE AS TO NOT CORE THROUGH EXISTING STRUCTURAL MEMBERS.
- THE PLUMBING CONTRACTOR SHALL COORDINATE WITH THE MECHANICAL CONTRACTOR THE EXACT LOCATIONS OF FLOOR DRAINS REQUIRED TO SERVE MECHANICAL EQUIPMENT.
- REFER TO PLUMBING ISOMETRICS FOR ANY SANITARY AND VENT PIPING AND SIZES NOT INIDCATED ON THE PLANS.

PLUMBING PLAN KEYNOTES

- PROVIDE NATURAL GAS METER AND APPURTENANCES PER LOCAL GAS COMPANY. ROUTE PIPING FROM METER INTO BUILDING THROUGH WEATHERPROOF SLEEVE ABOVE BUILDING FOUNDATION. SEE CIVIL UTILITY PLANS FOR UNDERGROUND PIPING CONTINUATION.
- PROVIDE DOMESTIC WATER METER AND APPURTENANCES PER LOCAL WATER COMPANY. PROVIDE ASSE 1013 BACKFLOW PREVENTER. ROUTE ASSE 1013 DRAIN TO ADJACENT MOP SINK.
- PROVIDE 3/4" NATURAL GAS PIPING TO FURNACE. PROVIDE ISOLATION VALVE, DIRT LEG AND UNION. (80 MBH)
- EXTEND 1/2" DOMESTIC WATER LINE UNDER CABINETS TO COFFEE MAKER AND TERMINATE WITH WATTS SD-3 VACUUM BREAKER.



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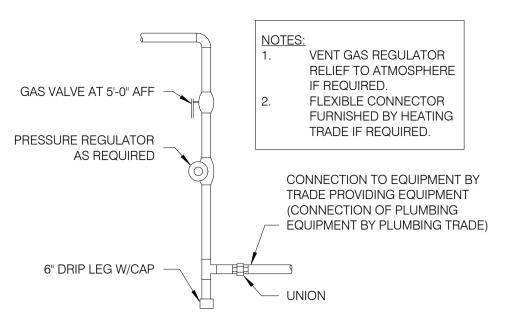
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First Floor Plumbing Plan

P1.01

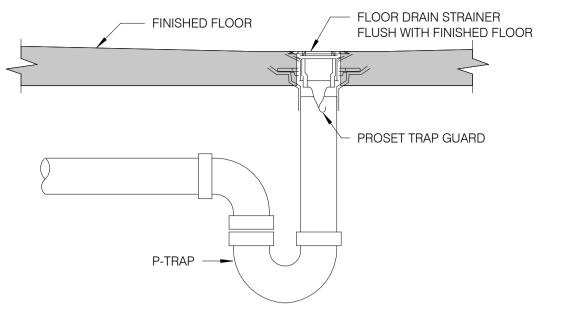
4 Wall Cleanout Detail

P2.00 NO SCALE



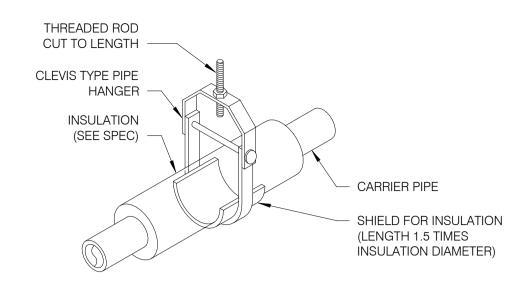
3 Typical Gas Connection Detail

P2.00 NO SCALE



2 Floor Drain Detail

P2.00 NO SCALE



Clevis Type Pipe Hanger Detail

P2.00 NO SCALE

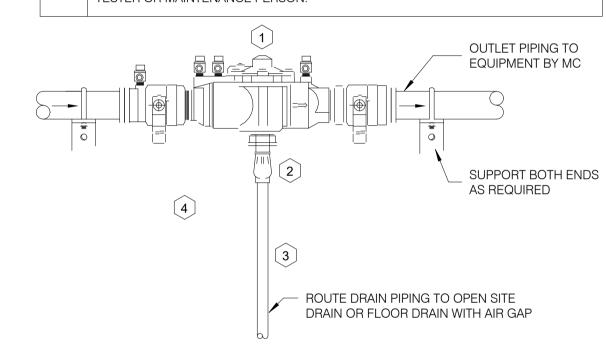
DETAIL KEYNOTES

PROVIDE ADEQUATE CLEARANCE ABOVE THE UNIT FOR THE OPERATION OF VALVES AROUND THE UNIT FOR REPAIR AND TESTING.

[2] THE AIR GAP FITTING SHALL BE PROVIDED WITH THE BACKFLOW PREVENTER.

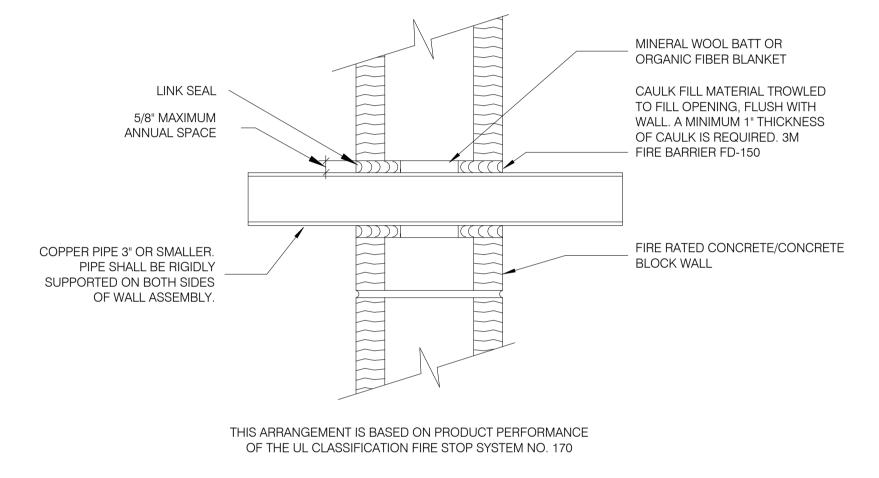
FOR ONE BACKFLOW PREVENTER, THE MINIMUM DRAIN PIPING SIZEIS THE SAME 3 | FOR ONE BACKFLOW PREVENTER PORT SIZE.

A BACKFLOW PREVENTER INSTALLED HORIZONTALLY MORE THAN 5 FT. ABOVE THE [4] | FLOOR SHALL BE PROVIDED WITH A PLATFORM CAPABLE OF SUPPORTING A TESTER OR MAINTENANCE PERSON.



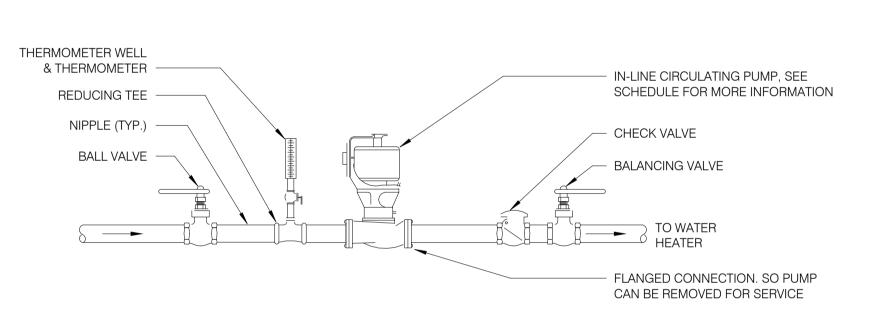
7 Reduced Pressure Backflow Preventer Detail

P2.00 NO SCALE



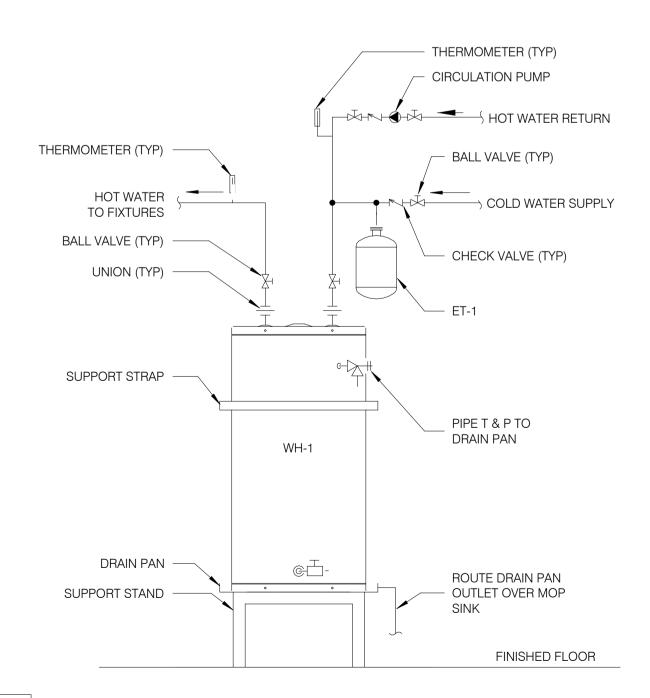
6 Rated Penetration for Piping Through Conc. Wall

P2.00 NO SCALE

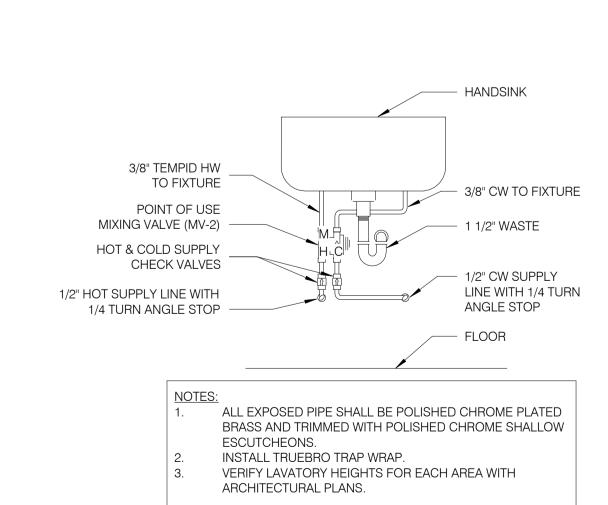


5 Hot Water Recirculation Pump Detail

P2.00 NO SCALE



9 Electric Water Heater Detail P2.00 NO SCALE



8 Point of Use Mixing Valve Detail P2.00 NO SCALE

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Plumbing Details and Diagrams

NG LOAD SCHEDULE **EQUIPMENT TYPE FURNACE** 80 **FURNACE** 80 **FURNACE** TOTAL CONNECTED LOAD 240 (CFH) ESTIMATED DEVELOPED LENGTH (FT) 125

1. NATURAL GAS PIPE SIZING BASED ON 2018 INTERNATIONAL FUEL GAS CODE, SECTION 402.4.2 'BRANCH LENGTH METHOD' AND TABLE 402.4 FOR SCHEDULE 40 METALLIC PIPE.

REQUESTED NATURAL GAS

PRESSURE*

2. CONTRACTOR SHALL INSTALL GAS METER, PRESSURE REGULATOR, AND ALL ASSOCIATED VALVING AS PER THE LOCAL NATURAL GAS COMPANY REQUIREMENTS.

7 IN WC

3. OWNER IS REQUIRED TO SUBMIT FINAL APPLICATION TO NATURAL GAS UTILITY FOR SERVICE. OWNER/CONTRACTOR SHALL NOTIFY ARCHITECT AND ENGINEER IMMEDIATELY IF THERE IS AN ISSUE WITH THE REQUESTED SERVICE.

*THE ABOVE REQUESTED PRESSURE INDICATED IS FOR THE AFTER METER HOUSELINE.

PLUMBING FIXTURE SCHEDULE

TAG	FIXTURE	MANUFACTURER	MODEL	MOUNT	COLD	HOT	WASTE	VENT	DESCRIPTION	NOTES
L-1	UNDERMOUNT LAVATORY (ADA)	SLOAN	SS-3001	UNDER	-	-	1-1/2"	1-1/2"	ADA COMPLIANT INSTALLATION, 16-1/2" X 19-1/2" X 7-1/5" VITREOUS CHINA WALL UNDERMOUNT OVAL LAVATORY. PROVIDE WITH ALL MOUNTING HARDWARE. PROVIDE WITH P-TRAP, TAILPIECE, ANGLE VALVES AND TRUEBRO ADA LAV GUARD.	1,2
	FAUCET	SLOAN	EBF-650	DECK	1/2"	1/2"	-	-	ADA COMPLIANT, DECK MOUNTED, BATTERY POWERED SENSOR FAUCET. 0.5 GPM. PROVIDE WITH ASSE 1070 BELOW DECK THERMOSTATIC MIXING VALVE SIMILAR TO SLOAN MIX-135-A.	1,2,3
SK-1	SINK	ELKAY	DLR221910PD	DROP IN	-	-	1-1/2"	1-1/2"	22"x19-1/2"x10-1/8" SINGLE BOWL, 18 GAUGE 304 STAINLESS STEEL, CENTER DRAIN, DROP IN, PROVIDE WITH ALL MOUNTING HARDWARE. PROVIDE WITH P-TRAP, TAILPIECE AND ANGLE VALVES	1,2
	FAUCET	ELKAY	LKD232SBH5C	DECK	1/2"	1/2"	-	-	8" CENTERSET CONCEALED DECK MOUNT FAUCET WITH GOOSENECK SPOUT AND 4" LEVER HANDLES + STOP CHROME. 1.5 GPM.	1,2
SK-2	SINK	ELKAY	LRAD292265PD	DROP IN	-	-	1-1/2"	1-1/2"	29"x22"x6-1/2" DOUBLE BOWL, 18 GAUGE 304 STAINLESS STEEL, REAR CENTER DRAIN, DROP IN, PROVIDE WITH ALL MOUNTING HARDWARE. PROVIDE WITH P-TRAP, TAILPIECE AND ANGLE VALVES. PROVIDE WITH 1/2 HP DISPOSAL EQUAL TO INSINKERATOR BADGER 5.	1,2
	FAUCET	ELKAY	LK6000	DECK	1/2"	1/2"	-	-	SINGLE HOLE DECK MOUNT KITCHEN FACUET WITH PULLDOWN SPRAY. FORWARD ONLY LEVER HANDLE. 1.5 GPM.	1,2
WC-1	ADA WATER CLOSET	SLOAN	ST-2459	WALL	1"	-	4"	2"	ADA COMPLIANT INSTALLATION, VITREOUS CHINA WALL MOUNTED WATER CLOSET. 1.28 GPF, ELONGATED BOWL, 1-1/2" IPS TOP SPUD INLET. PROVIDE WITH BEMIS 1955CT OPEN FRONT TOILET SEAT. PROVIDE WITH SLOAN G2 8111-1.28 BATTERY POWERED FLUSHOMETER.	1,2
WC-2	WATER CLOSET	SLOAN	ST-2459	WALL	1"	-	4"	2"	STANDARD INSTALLATION, VITREOUS CHINA WALL MOUNTED WATER CLOSET. 1.28 GPF, ELONGATED BOWL, 1-1/2" IPS TOP SPUD INLET. PROVIDE WITH BEMIS 1955CT OPEN FRONT TOILET SEAT. PROVIDE WITH SLOAN G2 8111-1.28 BATTERY POWERED FLUSHOMETER.	1,2
UR-1	URINAL	SLOAN	SU-7009	WALL	3/4"	-	2"	1-1/2"	ADA COMPLIANT INSTALLATION, VITREOUS CHINA WALL MOUNTED WASH DOWN URINAL. 0.125 GPF, INTEGRAL FLUSHING RIM, 3/4" IPS TOP SPUD INLET. PROVIDE WITH SLOAN ECOS 8186-0.125 BATTERY POWERED FLUSHOMETER.	1,2
FD-1	EMERGENCY FLOOR DRAIN	ZURN	Z5XX	FLOOR	-	-	2"	-	DUCO-COATED CAST IRON BODY WITH GALVANIZED STEEL COVER, VANDAL PROOF, PROVIDE WITH ZURN MODEL Z1072 ASSE 1072 TRAP SEAL DEVICE	1
FD-2	FLOOR DRAIN	ZURN	Z5XX	FLOOR	1	-	3"	-	DUCO-COATED CAST IRON BODY WITH GALVANIZED STEEL COVER, VANDAL PROOF, PROVIDE WITH ZURN MODEL Z1072 ASSE 1072 TRAP SEAL DEVICE	1
WB-1	REFRIGERATOR WALL BOX	OATEY	37703	-	3/8"	-	-	-	ICE MAKER/REFRIGERATOR WALL SUPPLY BOX WITH HAMMER ARRESTOR AND VALVE.	1
MS-1	MOP SINK	FIAT	MSB 2424	FLOOR	3/4"	3/4"	3"	1-1/2"	MOLDED STONE. PROVIDE WITH 830-AA SERVICE FAUCET-CHROME PLATED WITH VACUUM BREAKER, INTEGRAL STOPS, ADJUSTABLE WALL BRACE, PAIL HOOK AND 3/4" HOSE THREAD ON SPOUT	1
BF-1	BOTTLE FILLER	ELKAY	LZ8WSSSMC	WALL	1/2"	-	1-1/2"	1-1/2"	REFRIGERATED SURFACE MOUNT BOTTLE FILLING STATION. FILTERED, 8 GALLONS PER HOUR CHILLING CAPACITY. 115V/1PH/60HZ. INSTALL PER ADA REQUIREMENTS.	1,2
CO-1	INTERIOR CLEANOUT	ZURN	ZS14XX	WALL/FLOOR	-	-	SEE PLANS	SEE PLANS	DUCO-COATED CAST IRON BODY WITH STAINLESS STEEL COVER, VANDAL PROOF	1
CO-2	EXTERIOR CLEANOUT	EAST JORDAN	#3675	FLOOR	-	-	SEE PLANS	SEE PLANS	CLEANOUT BOX AND HEAVY DUTY COVER ENGRAVE LID SANITARY OR STORM. FLUSH RISER CAPPED WITH DOUBLE GASKETED CAP.	1
MV-1	MIXING VALVE	SLOAN	MIX-135-A	-	1/2"	1/2"	-	-	LEAD FREE, UNDER SINK THERMOSTATIC MIXING VALVE, DUAL CHECK VALVES, INTEGRAL STRAINER	1
HB-1	HOSE BIBB	MIFAB	MHY-20-WC	WALL	3/4"	-	-	-	LEAD FREE, NON-FREEZE WALL HYDRANT WITH NICKEL BRONZE BOX. KEY OPERATED, INTEGRAL VACUUM BREAKER. FINAL SELECTION TO BE APPROVED BY OWNER.	1

NOTES:

1. ACCEPTABLE MANUFACTURERS: KOHLER, AMERICAN STANDARD, SLOAN, CHICAGO FAUCETS, TOTO, WATTS, STERLING, MOEN, ZURN

2. UNIT TO CONFORM TO ICC/ANSI A 117.1 - 2009. 3. PROVIDE ASSE 1070 COMPLIANT THERMOSTATIC MIXING VALVE.

ELECTRIC DOMESTIC WATER HEATER SCHEDULE PRESSURE RELIEF (PSIG) RECOVER @ 90 DEG RISE (GPH) WEIGHT FULL (LBS) MANUFACTURER MODEL GALLONS UEF PH SIZE (Ø"xH") NOTES WATTAGE **AO SMITH** DEL-40 38 0.92 6KW 150 23"x32" 500

1. ALTERNATE MANUFACTURERS SHALL BE APPROVED BY OWNER AND ENGINEER. 2. PROVIDE WITH FLOOR STAND AND DRAIN PAN. ROUTE DRAIN TO MOP SINK.

E)	EXPANSION TANK SCHEDULE										
MARK	LOCATION	GALLONS	MANUFACTURER & MODEL NUMBER	FULL WEIGHT (LBS)	NOTES						
ET-1	ET-1 MECHANICAL ROOM 2 WESSELS T-5 - 1										
NOTES:											

1. ACCEPTABLE MANUFACTURERS: AMTROL, ARMSTRONG, BELL & GOSSETT, TACO, THRUSH.

HC	HOT WATER RECIRCULATION PUMP SCHEDULE															
1	I LOCATION I OVOTEM I PUMP I FLOW I HEAD I SHIFT OF					MAXIMUM			MOTOR			PUM	MP SIZE	WEIGHT	MANUFACTURER &	Notes
TAG	LOCATION SYSTEM		TYPE	(GPM)	(FT)	SHUT OFF HEAD (FT)	VOLTS/□	AMPS	НР	ВНР	RPM	SUCTION (IN)	DISCHARGE (IN)	(LBS)	MODEL NO.	NOTES
CP-1	SEE PLANS	HOT WATER RETURN	INLINE	3	14	15	115/1	1	1/25	-	3250	3/4	3/4	8	TACO 008	1,2
NOTES	S:												_			

I. PROVIDE WITH AQUASTAT. 2. FURNISHED AND INSTALLED BY PC. WIRED BY EC.

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City of Elyria

131 Court St - Suite 101 Elyria, Ohio 44035

Project: Public Safety Training Facility Range Building

Garden Street Elyria, Ohio 44035

Revisions:

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Plumbing Schedules



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Project Number: 503
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Isometric Plumbing Plans

P4.00

1 Waste and Vent Isome

11/6/2024 2:26:22 PM C:\Users\bhaber\\OneDrive - Sixmo Inc\Documents\50390123_Safety Facility Range Support Building_v2023_Central_bhaberIRSBQN.rvt

MECHANICAL SYMBOLS **ABBREVIATIONS** GENERAL NOTES (ALL SYMBOLS SHOWN ARE NOT NECESSARILY USED ON THE DRAWINGS) (ALL ABBREVIATIONS ARE NOT NECESSARILY USED) THE WORK SHALL CONFORM TO ALL APPLICABLE LOCAL, STATE AND AABC ASSOCIATED AIR BALANCE COUNCIL NATIONAL CODES. ASHRAE AMERICAN SOCIETY OF HEATING, ----- EXISTING HVAC REFRIGERATING, & AIR CONDITION FIELD VERIFY EXISTING CONDITIONS PRIOR TO PERFORMING ANY **ENGINEERS** DEMOLITION, FABRICATION, OR CONSTRUCTION WORK. ----- NEW HVAC ASTM AMERICAN SOCIETY FOR TESTING AND MATERIALS ALL DIMENSIONS AND ELEVATIONS NOTED AS "(REF)" ARE FOR CONNECT NEW TO EXISTING. VERIFY FIELD CONDITIONS. REFERENCE ONLY AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR CFM CUBIC FEET PER MINUTE PRIOR TO USING THEM FOR ANY CONSTRUCTION ACTIVITIES. ROUND SUPPLY DIFFUSER DORØ CONTRACTOR SHALL REVIEW AND BECOME FAMILIAR WITH ALL DIAMETER EXISTING CONDITIONS PRIOR TO COMMENCING WORK. ANY DN DOWN EΑ EXHAUST AIR CONDITIONS NOT DOCUMENTED ON THESE DRAWINGS OR OBSERVED SQUARE SUPPLY DIFFUSER TO BE DIFFERENT THAN THOSE SHOWN ON THESE DRAWINGS ARE TO FG FLOOR GRILLE BE REPORTED TO THE ENGINEER AND OWNER PRIOR TO COMMENCING SQUARE SUPPLY DIFFUSER WITH BLANK OFF THE WORK. **HVAC** HEATING, VENTILATION, & AIR CONDITIONING CONTRACTOR SHALL CONTACT LOCAL UTILITIES AS REQUIRED. SUBMIT SQUARE RETURN GRILLE ALL NOT PRIOR SUBMITTED PERMIT DOCUMENTS, QUALIFICATIONS, **IECC** INTERNATIONAL ENERGY CONSERVATION ETC. AND BE RESPONSIBLE FOR ALL FEES ASSOCIATED WITH PERMITS, SQUARE EXHAUST GRILLE CODE UTILITY EXTENSIONS, TAP-INSPECTIONS, ETC. THE ENGINEER SHALL SUBMIT CONSTRUCTION DOCUMENTS FOR OWNER'S REVIEW AND MAXIMUM MANUAL BALANCE DAMPER PERMIT PLAN REVIEW; HOWEVER, THE CONTRACTOR WILL BE MINIMUM EFFICIENCY REPORTING MERV RESPONSIBLE FOR OBTAINING THE PERMITS, AND ALL ASSOCIATED PERMIT AND INSPECTION COSTS/FEES. **THERMOSTAT** NEBB NATIONAL ENVIRONMENTAL BALANCING 6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL OF ALL CARBON DIOXIDE SENSOR NATIONAL ELECTRIC CODE DEBRIS RESULTING FROM DEMOLITION AND/OR CONSTRUCTION WORK NFPA NATIONAL FIRE PROTECTION ON THIS PROJECT. **ASSOCIATION** KEYNOTE SYMBOL NATURAL GAS EACH SUB-CONTRACTOR IS RESPONSIBLE TO COORDINATE AND NPT NATIONAL PIPE THREAD SCHEDULE THEIR WORK WITH THE GENERAL CONTRACTOR AND ALL OTHER CONTRACTORS WHOSE WORK WILL BE AFFECTED BY THEIR **REVISION MARK OUTSIDE AIR** OCC OCCUPANCY OHIO PARKING AT THE SITE BY CONSTRUCTION PERSONNEL SHALL BE AIRFLOW DIRECTION OHIO MECHANICAL CODE LIMITED TO THE LOCATIONS DESIGNATED BY THE OWNER/OWNER'S OCCUPATIONAL SAFETY AND HEALTH REPRESENTATIVE. **ADMINISTRATION** → CONTINUATION PCF POUND-FORCE PER CUBIC FOOT POLYVINYL CHLORIDE **RADIUS RETURN AIR** REF REFERENCE REQ REQUIRED SUPPLY AIR

SAN

SCH

WG

SANITARY WASTE

SUPPLY DIFFUSER SQUARE FEET

SMACNA SHEET METAL AND AIR CONDITIONING

CONTRACTORS NATIONAL ASSOCIATION

UNDERWRITERS LABORATORIES

SCHEDULE

ULTRAVIOLET

WATER GAUGE



Mechanical Sheet List

Mechanical Symbols, Notes & Abbreviations

First Floor Mechanical Plan

Mechanical Schedules

Mechanical Details and Diagrams



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Mechanical
Symbols, Notes &
Abbreviations

MO.00

MECHANICAL GENERAL NOTES

- THE MECHANICAL CONTRACTOR SHALL COORDINATE FINAL ELECTRICAL REQUIREMENTS OF EQUIPMENT PRIOR TO ORDERING.
- PVC PIPING SHALL NOT BE ALLOWED WITHIN A RETURN AIR PLENUM. ALL PIPING UTILIZED IN A RETURN AIR PLENUM IS TO BE LABELED BY THE MANUFACTURER WITH A FLAME-SPREAD INDEX OF 25 OR LESS AND A SMOKE DEVELOPED INDEX OF 50 OR LESS AS TESTED UNDER ASTM E 84.
- REFER TO ARCHITECTURAL PLANS AND DETAILS FOR EXACT DIMENSIONS, ELEVATIONS AND LOCATIONS OF EQUIPMENT, FIXTURES, OPENINGS, FIRE AND SMOKE WALL AND RATED STRUCTURES.
- DUCTWORK AND PIPING INSTALLATION SHALL BE COORDINATED WITH OTHER TRADES AS TO NOT HINDER ACCESS TO EQUIPMENT. INSTALLATION OF PIPING SHALL ENABLE ACCESS TO VALVES ABOVE CEILING WHILE ALLOWING MINIMUM OF 8" CLEAR FOR CEILING REMOVAL.
- RETURN AIR DUCTWORK EXTENDING FROM EQUIPMENT SERVING A RETURN AIR PLENUM SHALL BE INTERNALLY INSULATED WITH 1/2" DUCT LINER FOR THE ENTIRE LENGTH OF THE DUCT FROM THE UNIT TO THE OUTLET.
- REFER TO ARCHITECTURAL AND STRUCTURAL PLANS FOR DESIGN REQUIREMENTS OF PENETRATIONS.
- EXPOSED SUPPLY AIR DUCTWORK WITHIN FINISHED SPACES SHALL BE INTERNALLY INSULATED PER THE SPECIFICATIONS. DUCTWORK SIZE SHOWN IS FREE AREA DIMENSION REQUIRED OF DUCTWORK.
- THE MECHANICAL CONTRACTOR SHALL COORDINATE WITH THE PLUMBING CONTRACTOR THE EXACT LOCATIONS OF FLOOR DRAINS REQUIRED TO SERVE MECHANICAL EQUIPMENT.

MECHANICAL PLAN KEYNOTES

- EXTEND EXHAUST DUCT THROUGH WALL AND TERMINATE WITH SEIHO MODEL SX OR EQUAL ALUMINUM VENT LOUVER. SEE PLANS FOR DUCT INLET SIZE.
- INSTALL FURNACE PER MANUFACTURERS RECOMMENDATIONS. PROVIDE PRIMARY AND SECONDARY CONDENSATE AND ROUTE TO FLOOR DRAIN. PROVIDE FURNACE ECONOMIZER SIMILAR TO MICROMETL CUBE WITH INTEGRAL CONTROLS. ROUTE OUTSIDE AIR DUCT UP THROUGH ROOF AND PROVIDE GOOSENECK. PROVIDE FLUE AND COMBUSTION AIR VENT OUT THROUGH ROOF.
- CONDENSING UNIT TO BE MOUNTED LEVEL IN ALL DIRECTIONS ON ROOF WITH EQUIPMENT STAND. EXTEND RL/RS LINES THROUGH WALL WITH SLEEVE AND SEAL WEATHERTIGHT. RL./RS LINES SHALL BE SIZED PER MANUFACTURERS RECOMMENDATIONS.
- PROVIDE 1-1/2 HOUR FIRE DAMPER AT 2 HOUR WALL PENETRATION.

1-1/2 HOUR FIRE DAMPER AT WALL PENETRATION.

- EXTEND FULL SIZE RETURN AIR DUCT OUT TO RETURN AIR PLENUM. COVER RETURN AIR DUCT OPENING WITH WELDED WIRE MESH. $\overbrace{\hspace{1cm}}$
 - PROVIDE 1-1/2 HOUR FIRE DAMPER AT 1 HOUR WALL PENETRATION.

PROVIDE 24X18 RETURN AIR PATH THROUGH RATED WALL. PROVIDE



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First Floor Mechanical Plan

1 Mechanical Plan

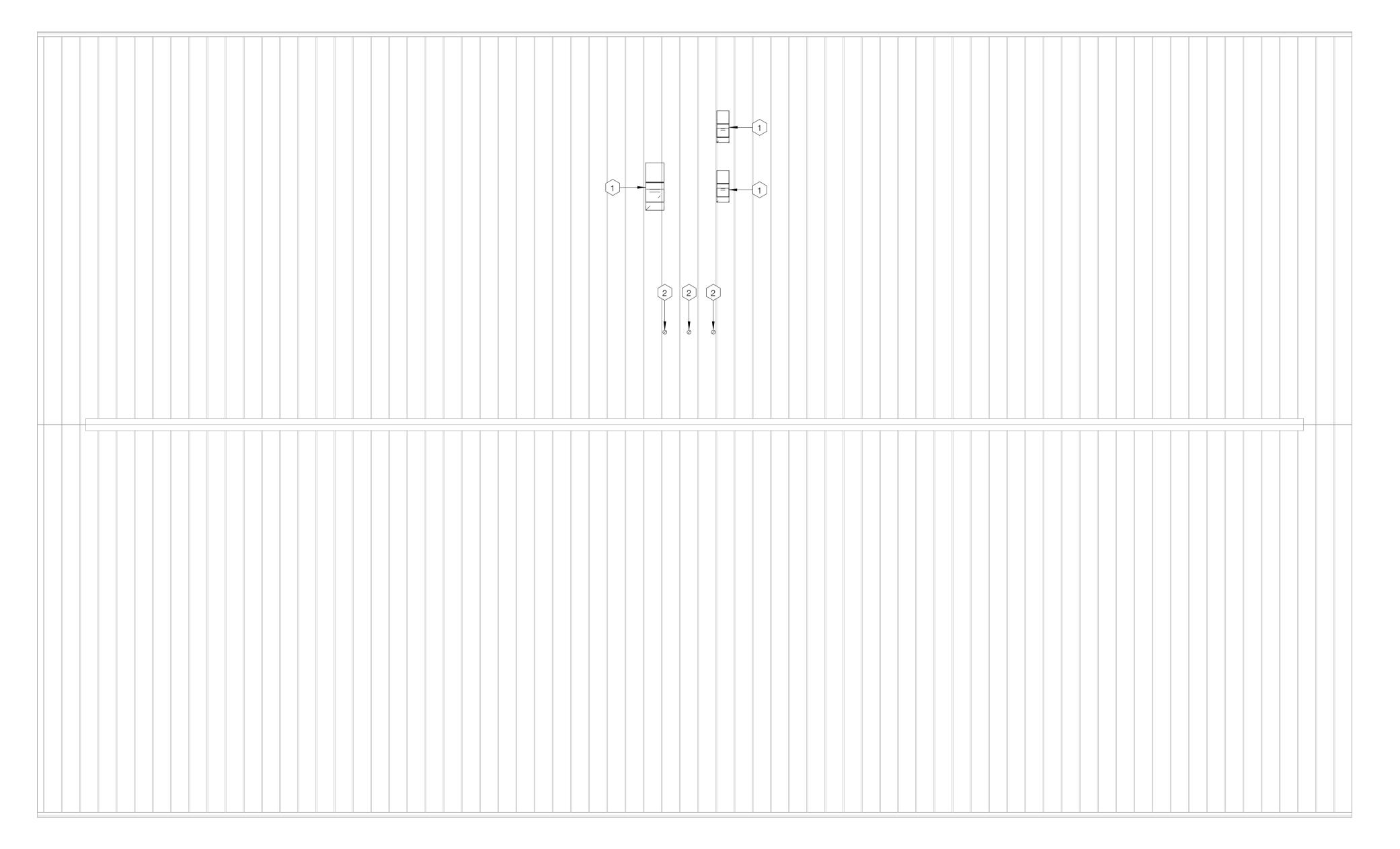
M1.01 1/4" = 1'-0"

MECHANICAL GENERAL NOTES

- 1. THE MECHANICAL CONTRACTOR SHALL COORDINATE FINAL ELECTRICAL REQUIREMENTS OF EQUIPMENT PRIOR TO ORDERING.
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- 3. REFER TO ARCHITECTURAL PLANS AND DETAILS FOR EXACT DIMENSIONS, ELEVATIONS AND LOCATIONS OF EQUIPMENT, FIXTURES, OPENINGS, FIRE AND SMOKE WALL AND RATED STRUCTURES.
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- 5. RETURN AIR DUCTWORK EXTENDING FROM EQUIPMENT SERVING A RETURN AIR PLENUM SHALL BE INTERNALLY INSULATED WITH 1/2" DUCT LINER FOR THE ENTIRE LENGTH OF THE DUCT FROM THE UNIT TO THE OUTLET.
- 6. REFER TO ARCHITECTURAL AND STRUCTURAL PLANS FOR DESIGN REQUIREMENTS OF PENETRATIONS.
- 7. EXPOSED SUPPLY AIR DUCTWORK WITHIN FINISHED SPACES SHALL BE INTERNALLY INSULATED PER THE SPECIFICATIONS. DUCTWORK SIZE SHOWN IS FREE AREA DIMENSION REQUIRED OF DUCTWORK.
- 8. THE MECHANICAL CONTRACTOR SHALL COORDINATE WITH THE PLUMBING CONTRACTOR THE EXACT LOCATIONS OF FLOOR DRAINS REQUIRED TO SERVE MECHANICAL EQUIPMENT.

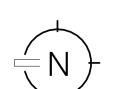
MECHANICAL PLAN KEYNOTES

- ROUTE OUTSIDE AIR DUCT UP THROUGH ROOF TERMINATE WITH GOOSENECK. OUTSIDE AIR DUCT SHALL BE MINIMUM OF 10'-0" AWAY FROM ANY EXHAUSTS, FLUES OR OR PLUMBING VENTS.
- 2 TENTATIVE LOCAITON OF FURNACE CONCENTRIC VENT.



1 Roof Mechanical Plan

M1.02 3/16" =





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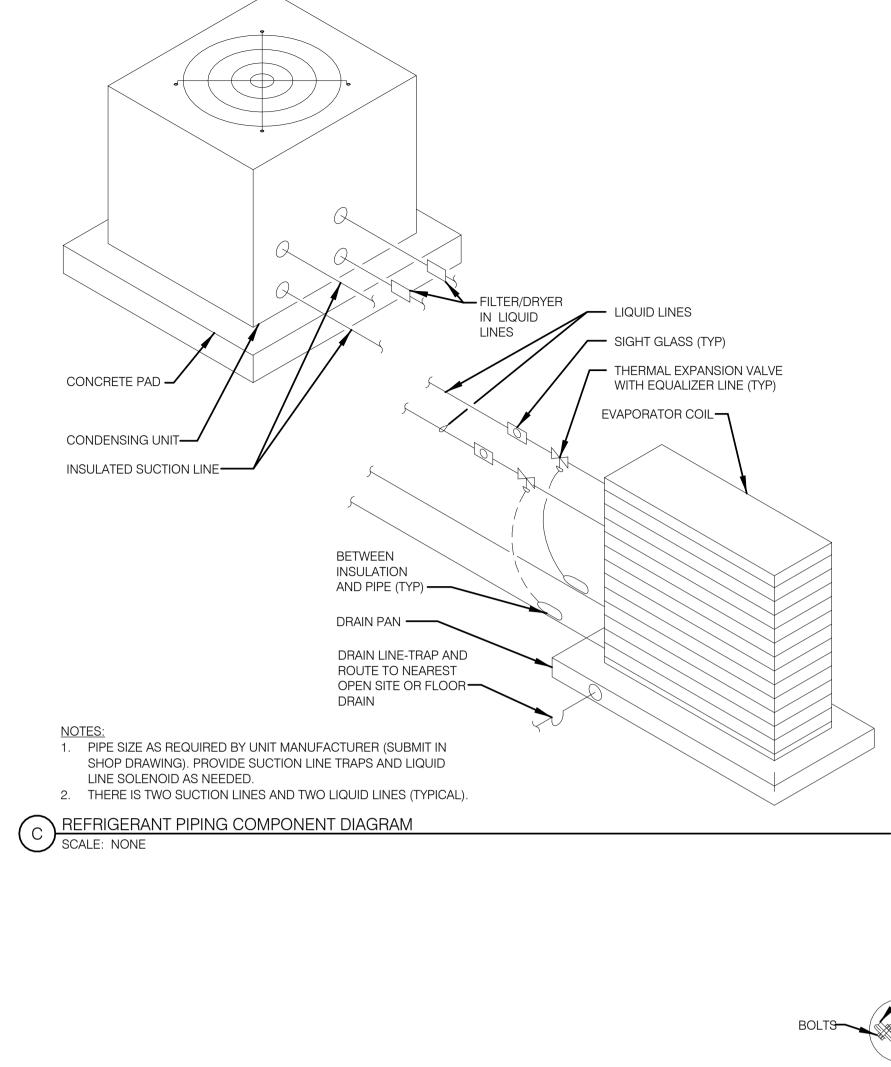
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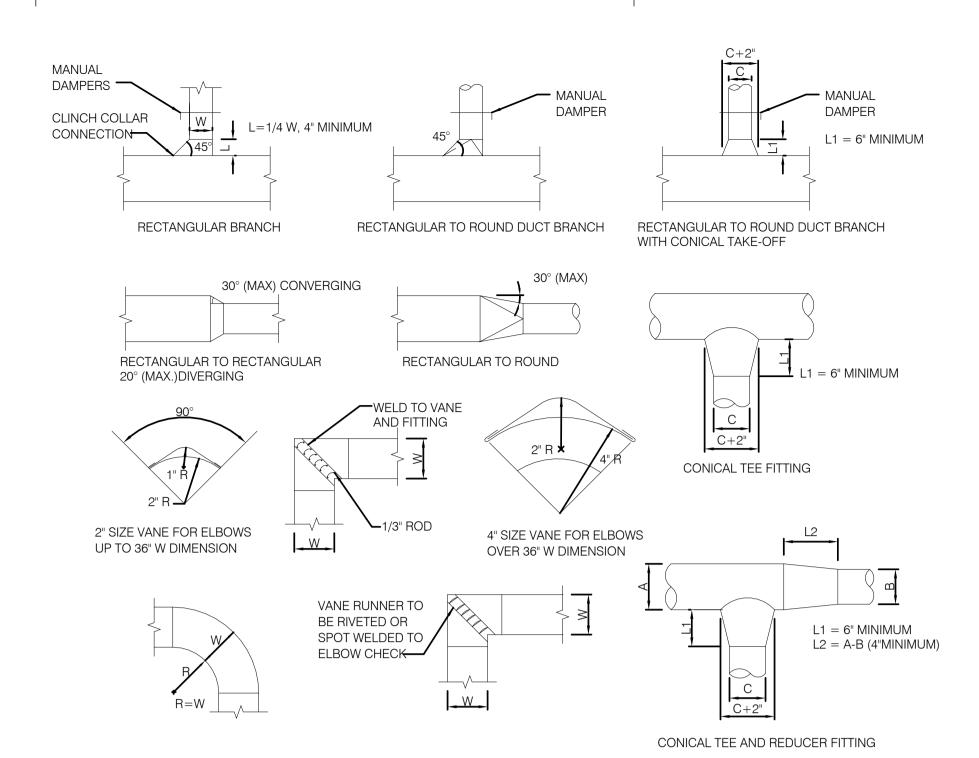
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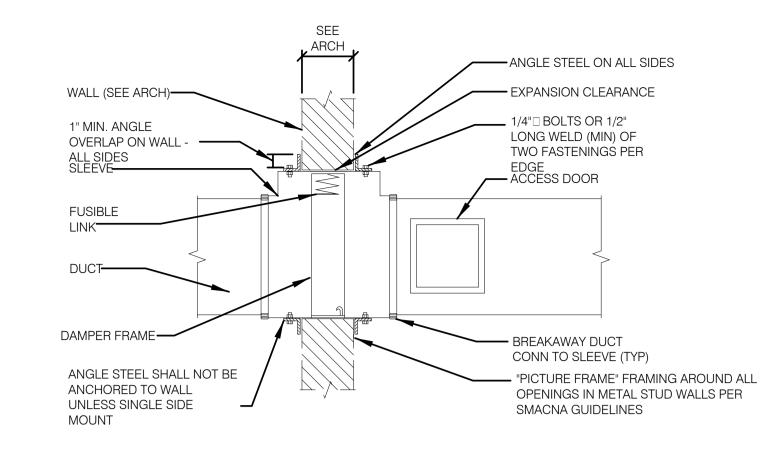
Roof Mechanical

M1.02





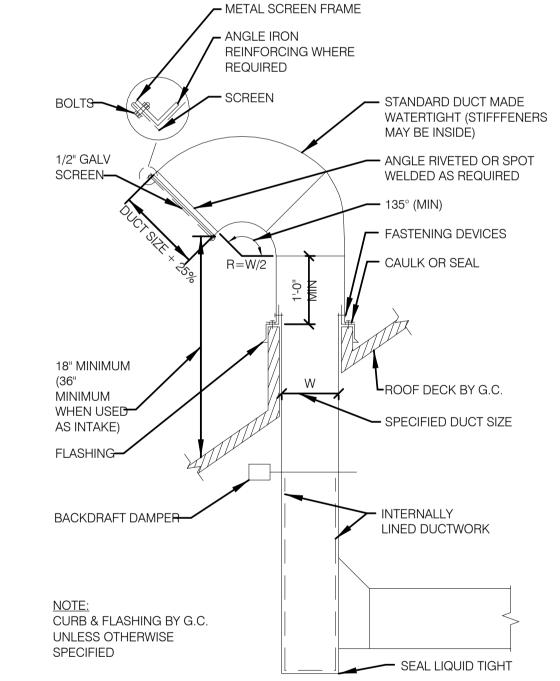


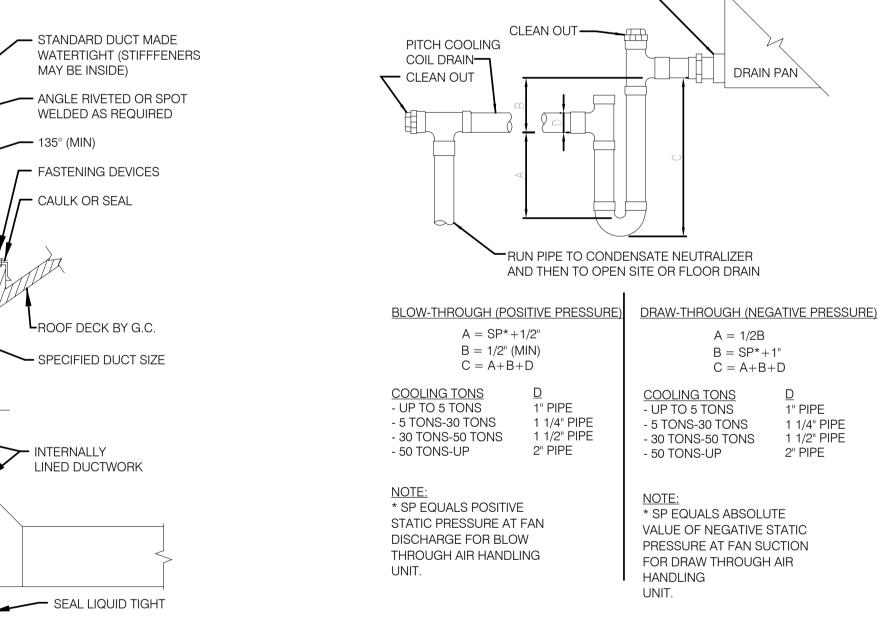


WALL SLE	EEVES			
DUCT DIMENSION	MINIMUM GAUGE	ANGLE STI	EEL & FASTENER D	IMENSIONS
0-12"	26	LENGTH	MINIMUM ANGLE SIZE	FASTENER LOCATION
13-30"	24	0-48"	1 1/2" x 1 1/2" x 1/8"	8" ON CENTER
31-54"	22	49-96"	2" x 2" x 1/8"	6" ON CENTER
55-84"	20	96" AND OVER	2 1/2" x 2 1/2" x 3/16"	6" ON CENTER
85" AND UP	18			

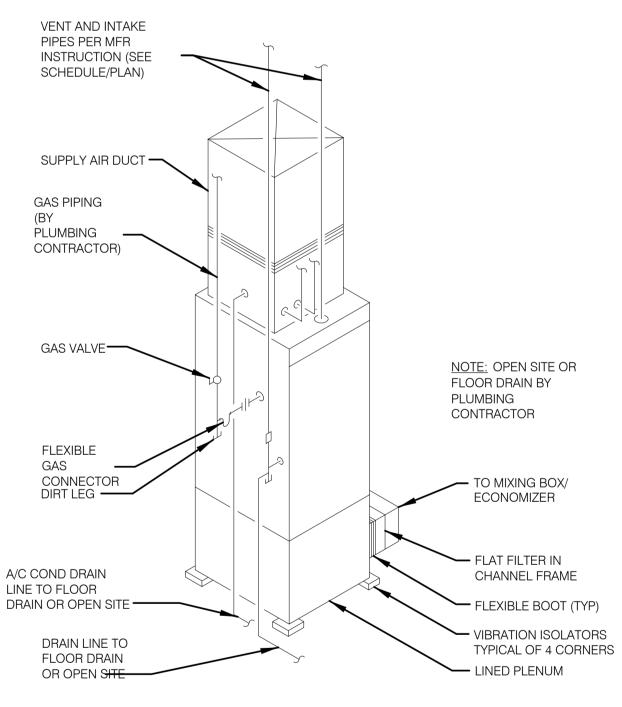
- 1. DAMPERS ARE TO BE INSTALLED IN STRICT ACCORDANCE WITH THE U.L. REQUIREMENTS. VERTICAL DAMPER SHOWN - HORIZONTAL INSTALLATION SIMILAR EXCEPT WITH SPRING LOADED DAMPER.
- 3. PRODUCT TO MEET REQUIREMENTS SET IN UL LISTING 555. ALL DAMPERS TO BE DYNAMIC TESTED. 4. DAMPERS SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S INSTALLATION REQUIREMENTS.
- 5. STEEL ANGLES AROUND DAMPER SHALL OVERLAP "PICTURE FRAME" IN WALL STUDS BY A MINIMUM OF 1". 6. CONTRACTOR TO TEST DAMPERS IN PLACE AND RECORD RESULTS FOR SUBMITTAL TO ENGINEER.



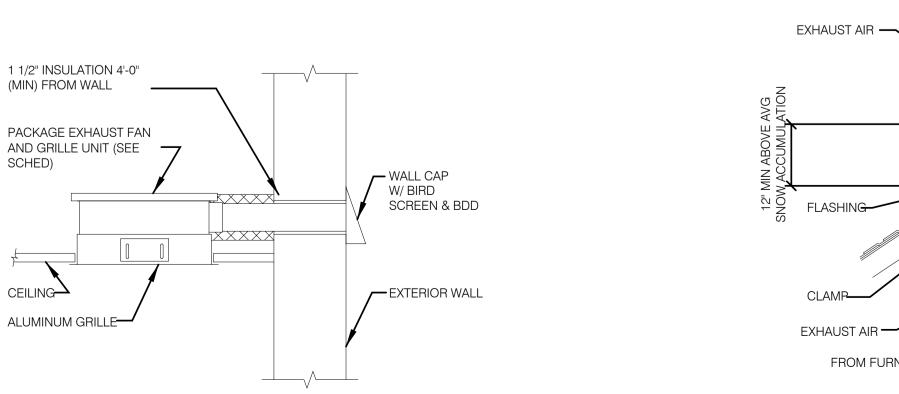


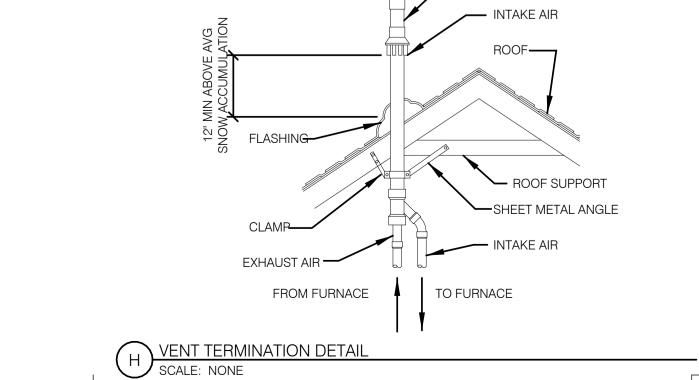


DRAIN NIPPLE—









and Diagrams

— MC TO PAINT ENTIRE

ASSEMBLY ABOVE ROOF LINE TO MATCH ROOF COLOR

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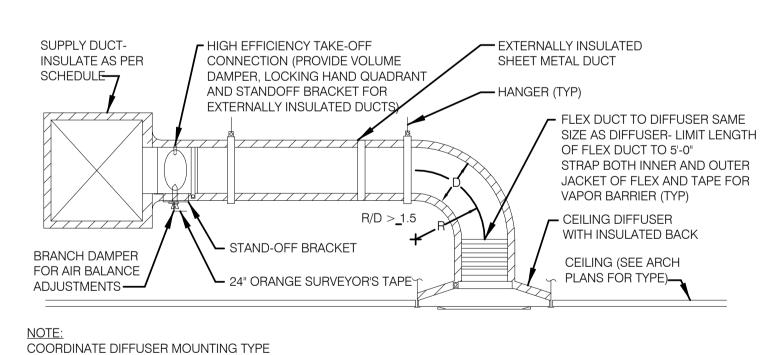
Elyria, Ohio 44035

Project:

Garden Street

Revisions:

Elyria, Ohio 44035



WITH CEILING

CEILING DIFFUSER DETAIL SCALE: NONE

HANGER (TYP) — FULL SIZE OPEN-ENDED DUCT **VERTICAL** CORRIDOR DUCT SIZE = CEILING GRILLE SIZE PLENUM RETURN GRIL PARTITON WALL—

J RETURN/TRANSFER GRILLE DETAIL SCALE: NONE

CEILING EXHAUST FAN DETAIL SCALĘ: NONE

SCHED)

NATURAL GAS FURNACE SCHEDULE

TAG	SERVES		OUTPUT	CAPACITY	TEMP	NOMINAL	TOTAL	EXTERNAL	BLOWER			ECTRICA	۸L		WEIGHT	MANUFACTURER & MODEL NO.	NOTES
IAG	SERVES	MBH	MBH	STAGES	RISE	COOLING TONS	CFM	SP (IN)	MOTOR (HP)	VOLTS	PHASE	HZ	AMPS	MCA	WEIGHT	MANOTACTONEN & MODEL NO.	NOTES
F-1	SEE PLANS	100	96	2	49.2	5	1800	0.5	1	115	1	60	-	13.7	260	CARRIER 59TN6B	1-11
F-2	SEE PLANS	80	78	2	51.3	4	1400	0.5	1	115	1	60	-	13.6	260	CARRIER 59TN6B	1-11
F-3	SEE PLANS	80	78	2	51.3	4	1400	0.5	1	115	1	60	-	13.6	260	CARRIER 59TN6B	1-11
LOTEO																	

- ACCEPTABLE MANUFACTURERS: CARRIER, BRYANT, JCI, LENNOX, RUUD, TRANE.
 PROVIDE WITH DOUBLE WALL INSULATED CABINET AND CASED EVAPORATOR COIL.
- 3. PROVIDE 7-DAY PROGRAMMABLE, AUTO-CHANGEOVER, DIGITAL THERMOSTAT.
- 4. PROVIDE MERV-6 AIR FILTER.
- 5. PROVIDE THERMAL EXPANSION VALVE.
- 6. PROVIDE WITH LITTLE GIANT MODEL 'ACS-2' OVERFLOW CONDENSATE SWITCH.
- PROVIDE WITH PVC FLUE AND INTAKE PIPING. PROVIDE CONCENTRIC TERMINATION KIT.
 EXTEND 1" CONDENSATE FROM FLUE CONDENSATE DRAIN LINES (WITH P-TRAP) TO ADJACENT DRAIN. PROVIDE FLUE CONDENSATE WITH ACID NEUTRALIZATION KIT.
- 9. EC TO PROVIDE AND INSTALL DISCONNECT SWITCH.
- 10. UNIT SHALL BE ASHRAE 90.1 COMPLIANT. 11. PROVIDE UNIT WITH MICROMETL MIXING BOX CUBE WITH INTEGRAL ENTHALPY CONTROLLER.

		CONDENION	THALLOL	SCHEDULE
Π	COLLED	CONDENSI	NG UINII	

	AIT COOLLD CONDLINGING ONL COLLDOLL																			
TAG	UNITS	SYSTEM	NOMINAL	TOTAL	SENS.	SEER	DEEDIG		CON	DENSE	R FAN			ELE	CTRI	CAL		WEIGHT	MANUFACTURER & MODEL NO.	NOTES
TAG	UNITS	STSTEIN	TONS	(MBH)	(MBH)	AT ARI	REFRIG.	TYPE	CFM	RPM	AMPS	MOTOR HP	VOLTS	PHASE	HZ	AMPS	MCA	WEIGHT	MANOPACTORER & MODEL NO.	NOTES
CU-1	SEE PLANS	F-1	5	60	43	17	PURON	PROP	-	-	-	-	208	1	60	-	27.8	323	CARRIER 24ACB	1-8
CU-2	SEE PLANS	F-2	4	47.5	34.3	17	PURON	PROP	-	-	-	-	208	1	60	-	27.8	277	CARRIER 24ACB	1-8
CU-3	SEE PLANS	F-2	4	47.5	34.3	17	PURON	PROP	-	-	-	-	208	1	60	-	27.8	277	CARRIER 24ACB	1-8

- 1. ACCEPTABLE MANUFACTURERS: CARRIER, BRYANT, JCI, LENNOX, RUUD, TRANE.
- 2. PROVIDE WITH HI/LO PRESSURE CONTROL, CONDENSER COIL HAIL GUARDS, AND CRANKCASE HEATER.
- 3. MOUNT ON DIVERSITECH MODEL 'ACB' OR EQUAL EQUIPMENT PLATFORM WITH VIBRATION ISOLATOR PADS.
- 4. PROVIDE WITH 2-STAGE COMPRESSOR AND COMPRESSOR FAN.
- 5. PROVIDE WITH COMPLETE REFRIGERANT LINESET SIZED BY MANUFACTURER.
- 6. E.C. TO PROVIDE AND INSTALL DISCONNECT SWITCH.
- 7. UNIT SHALL BE ASHRAE 90.1 COMPLIANT.
- 8. UNIT SHALL BE SAME MANUFACTURER AS PAIRED INDOOR UNIT.

EXHAUST FAN SCHEDULE

	TAC	LOCATION	SYSTEM	CFM	ESP	RPM	DUD		ELECTRICAL	-	BDD	DBIVE	FAN	WEIGHT	MANUFACTURER &	NOTES
\wedge	TAG	LOCATION	SISIEM SISIEM	CFIVI	ESP	RPIVI	BHP	VOLIS/Ø	WATTS	ACCE -	BDD	DRIVE	TYPE	(LBS)	MODEL NO.	NOTES
\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	EF-1	RR	GENERAL EXHAUST	150	.5	1050	-	120 / 1	128	15	YES	DIRECT	CABINET	10	GREENHECK SP-B150	1-3
ζ	EF-2	RR	GENERAL EXHAUST	150	.5	1050	-	120 / 1	128	15	YES	DIRECT	CABINET	10	GREENHECK SP-B150	1-3
			LOCATION UTILITY		س ح.5	773	سي	120/1				DIRECT	CABINET		GREENHECK SP-LP0511-1	سپيب

- 1. ACCEPTABLE MANUFACTURERS: BROAN-NUTONE, GREENHECK, LOREN COOK, PANASONIC.
- 2. PROVIDE WITH VIBRATION ISOLATORS, INTEGRAL DISCONNECT SWITCH AND BACKDRAFT DAMPER.
- 3. UNIT SHALL BE CONTROLLED BY SWITCH.

GRILLE, REGISTER, AND DIFFUSER SCHEDULE

DESCRIPTION	MATERIAL	FINISH	MAX NOISE CRITERIA	MANUFACTURER & MODEL NO.	NOTES							
24X24, ALUMINUM PLAQUE DIFFUSER, SEE PLANS FOR NECK SIZE	ALUMINUM	NOTE 2	25	TITUS OMNI-AA	1							
12X12, ALUMINUM PLAQUE DIFFUSER, SEE PLANS FOR NECK SIZE	ALUMINUM	NOTE 2	25	TITUS OMNI-AA	1							
24X24, EGGCRATE RETURN GRILLE 1/2"X1/2"X1/2" CORES	ALUMINUM	NOTE 2	25	TITUS 50F	1							
24X24, EGGCRATE RETURN GRILLE 1/2"X1/2"X1/2" CORES, PROVIDE WITH RETURN AIR CANOPY	ALUMINUM	NOTE 2	25	TITUS 50F	1							
24X6, EGGCRATE RETURN GRILLE 1/2"X1/2"X1/2" CORES	ALUMINUM	NOTE 2	25	TITUS 50F	1							
	24X24, ALUMINUM PLAQUE DIFFUSER, SEE PLANS FOR NECK SIZE 12X12, ALUMINUM PLAQUE DIFFUSER, SEE PLANS FOR NECK SIZE 24X24, EGGCRATE RETURN GRILLE 1/2"X1/2"X1/2" CORES 24X24, EGGCRATE RETURN GRILLE 1/2"X1/2"X1/2" CORES, PROVIDE WITH RETURN AIR CANOPY 24X6, EGGCRATE RETURN GRILLE	24X24, ALUMINUM PLAQUE DIFFUSER, SEE PLANS FOR NECK SIZE 12X12, ALUMINUM PLAQUE DIFFUSER, SEE PLANS FOR NECK SIZE ALUMINUM 24X24, EGGCRATE RETURN GRILLE 1/2"X1/2"X1/2" CORES 24X24, EGGCRATE RETURN GRILLE 1/2"X1/2"X1/2" CORES, PROVIDE WITH RETURN AIR CANOPY 24X6, EGGCRATE RETURN GRILLE 24X6, EGGCRATE RETURN GRILLE	24X24, ALUMINUM PLAQUE DIFFUSER, SEE PLANS FOR NECK SIZE 12X12, ALUMINUM PLAQUE DIFFUSER, SEE PLANS FOR NECK SIZE ALUMINUM NOTE 2 24X24, EGGCRATE RETURN GRILLE 1/2"X1/2"X1/2" CORES ALUMINUM NOTE 2 24X24, EGGCRATE RETURN GRILLE 1/2"X1/2"X1/2" CORES, PROVIDE WITH RETURN AIR CANOPY 24X6, EGGCRATE RETURN GRILLE 1/2"X1/2"X1/2" CORES, PROVIDE WITH RETURN AIR CANOPY 24X6, EGGCRATE RETURN GRILLE ALUMINUM NOTE 2	DESCRIPTION MATERIAL FINISH CRITERIA 24X24, ALUMINUM PLAQUE DIFFUSER, SEE PLANS FOR NECK SIZE ALUMINUM NOTE 2 12X12, ALUMINUM PLAQUE DIFFUSER, SEE PLANS FOR NECK SIZE ALUMINUM NOTE 2 24X24, EGGCRATE RETURN GRILLE 1/2"X1/2"X1/2"X1/2" CORES ALUMINUM NOTE 2 25 ALUMINUM NOTE 2 25 ALUMINUM NOTE 2 25 24X24, EGGCRATE RETURN GRILLE 1/2"X1/2"X1/2" CORES, PROVIDE WITH RETURN AIR CANOPY ALUMINUM NOTE 2 25 ALUMINUM NOTE 2 25	DESCRIPTION MATERIAL FINISH CRITERIA MODEL NO. 24X24, ALUMINUM PLAQUE DIFFUSER, SEE PLANS FOR NECK SIZE ALUMINUM NOTE 2 25 TITUS OMNI-AA 12X12, ALUMINUM PLAQUE DIFFUSER, SEE PLANS FOR NECK SIZE ALUMINUM NOTE 2 25 TITUS OMNI-AA 24X24, EGGCRATE RETURN GRILLE 1/2"X1/2"X1/2" CORES ALUMINUM NOTE 2 25 TITUS 50F ALUMINUM NOTE 2 25 TITUS 50F 24X24, EGGCRATE RETURN GRILLE 1/2"X1/2"X1/2" CORES, PROVIDE WITH RETURN AIR CANOPY ALUMINUM NOTE 2 25 TITUS 50F 24X6, EGGCRATE RETURN GRILLE ALUMINUM NOTE 2 25 TITUS 50F							

1. ACCEPTABLE MANUFACTURERS: TITUS, PRICE, ANEMOSTAT, HART & COOLEY, KRUEGER, TUTTLE & BAILEY. 2. SHALL BE COLOR #2 BRITISH WHITE.

Revisions:

A 11.07.2024 ADDENDUM A 09.26.2024 For Construction

Cleveland | Zanesville | Marietta

1101 Auburn Avenue Cleveland, Ohio 44113 p. 216-767-5400 sixmoarchitecture.com

City of Elyria

131 Court St - Suite 101

Public Safety

Training Facility Range Building

Elyria, Ohio 44035

Project:

Garden Street Elyria, Ohio 44035

Project Number: 5039 01 23 Copyright:

Mechanical Schedules

ELECTRICAL	SYMBOL LEGEND
SYMBOL	DESCRIPTION
	PANELBOARD SURFACE MOUNTED 6'-6" TO TOP. SEE PANEL SCHEDULES AND ONE-LINE DIAGRAM.
	CONDUIT WITH WIRING RUN CONCEALED IN OR ABOVE CEILING OR WALL, OR RUN EXPOSED IN UNFINISHED AREAS. CROSS HATCHING INDICATES NUMBER OF CONDUCTORS (#12 AWG - MINIMUM). PROVIDE A CODESIZED GROUND WIRE IN ALL CONDUITS IN ADDITION TO THE CONDUCTORS SHOWN.
	CONDUIT WITH WIRING RUN CONCEALED BELOW FLOOR. CROSS HATCHING INDICATES NUMBER OF CONDUCTORS (#12 AWG - MINIMUM). PROVIDE A CODE-SIZED GROUND WIRE IN ALL CONDUITS IN ADDITION TO THE CONDUCTORS SHOWN.
	RECEPTACLE NOTES AND DESIGNATIONS: RATED 125V, 20A UON MOUNTED AT 18" AFF UON
	+##" MOUNTED AT ##" AC INSTALLED 8" ABOVE COUNTERTOP C RECESSED MOUNTED FLUSH IN FINISHED CEILING, RECEPTACLE AND FACEPLATE FINISH TO MATCH CEILING FINISH
	GFI GROUND FAULT INTERRUPTING TYPE H HORIZONTAL IG ISOLATED GROUND T TAMPER RESISTANT LISTED UC BELOW COUNTER
	USB DUPLEX RECEPTACLE WITH (1) USB TYPE A AND (1) USB TYPE C PORTS
	WP WEATHER RESISTANT LISTED WITH DIE-CAST ALUMINUM "WHILE IN-USE COVER"
	DR DRYER - 30A - 250V GROUNDING TYPE SIMPLEX RECEPTACLE MOUNTED 4'-0" AFF, UNLESS NOTED OTHERWISE. VERIFY EXACT MOUNTING HEIGHT AND LOCATION OF DEVICE WITH DRYER MANUFACTURER'S INSTALLATION INSTRUCTIONS PRIOR TO ROUGH-IN. FURNISH AND INSTALL MATCHING CORD AND PLUG. DS DISPOSAL - 20A - 125V GROUNDING TYPE DUPLEX RECEPTACLE
	MOUNTED AT 18" AFF WITHIN CABINET WITH CONTROL SWITCH LOCATED 6" ABOVE THE TOP OF THE COUNTER. FURNISH AND INSTALL MATCHING CORD AND PLUG. COORDINATE LOCATIONS OF DEVICES WITH INTERIOR ELEVATIONS INDICATED ON ARCHITECTURAL PLANS. WIRED TO GFCI TYPE BREAKER.
	DW DISHWASHER - 20A - 125V GFI TYPE INSTALLED WITHIN CABINET BELOW SINK.
	FG FRIDGE - 20A - 125V RECETACLE INSTALLED 5'-0" AFF. WIRED TO GFCI TYPE BREAKER. MW/AC MICROWAVE - 20A - 125V RECETACLE INSTALLED 8" ABOVE
	COUNTERTOP. WIRE TO GFCI TYPE BREAKER. MW/C MICROWAVE - 20A - 125V RECETACLE INSTALLED WITHIN CABINET +/-90" AFF. BOTTOM, LEFT CORNER OF RECEPTACLE TO ALIGN WITH BOTTOM, LEFT CORNER OF CABINET. WIRE TO GFCI TYPE BREAKER.
	WS WASHING MACHINE - 20A - 125V GFI TYPE RECEPTACLE INSTALLED AT 4'-0" AFF
Ф	20A - 125V GROUNDING TYPE DUPLEX RECEPTACLE MOUNTED 18" AFF TO CENTER OF BOX, UNLESS NOTED OTHERWISE.
#	20A - 125V GROUNDING TYPE QUADRAPLEX RECEPTACLE MOUNTED 18" AFF TO CENTER OF BOX, UNLESS NOTED OTHERWISE.
\$	LIGHT SWITCH NOTES AND DESIGNATIONS: • RATED 120/277V 20A LION

RATED 120/277V, 20A UON

THREE POLE TOGGLE SWITCH

OCCUPANCY SENSOR SWITCH

FAN CONTROL AND LIGHT DIMMER

120V/277V OCCUPANCY SENSING SWITCH CEILING MOUNTED,

UNLESS NOTED OTHERWISE. SUBSCRIPT DELINIATES LIGHTING

TELEVISION OUTLET MOUNTED 60" AFF TO CENTER OF BOX, UNLESS

NOTED OTHERWISE. PROVIDE 3/4"HDPE WITH PULLWIRE FROM J-BOX

FIRE ALARM AUDIO/VISUAL (HORN/STROBE) NOTIFICATION APPLIANCE

WALL MOUNTED AT THE LESSOR OF 80" AFF TO BOTTOM OR 6" BELOW

WITH SINGLE GANG PLASTER RING TO ACCESSIBLE ASSOCIATED

TELEPHONE CLOSET. FURNISH AND INSTALL CONDUIT BUSHINGS.

FIRE ALARM MANUAL PULL STATION MOUNTED 48" AFF TO TOP.

FOUR POLE TOGGLE SWITCH

VACANCY SENSOR SWITCH

HORIZONTAL

CONTROL ZONE

FINISHED CEILING.

SHOP DRAWINGS.

 \circ

MOUNTED AT 48" AFF TO CENTERLINE OF DEVICE UON

NO SUBSCRIPT INDICATES SINGLE POLE SWITCH

REQUIREMENTS WITH ASSOCIATED FIXTURE TYPE.

SWITCHES SHALL BE GANGED TOGETHER WHERE APPLICABLE

SUBSCRIPT 'D' INDICATES DIMMING AND MAY BE COMBINED

E.C. SHALL DERATE GANGED SWITCHES PER MANUFACTURER

WITH OTHER SWITCH TYPE SUBSCRIPTS. COORDINATE DIMMING

LOWERCASE SUBSCRIPTS INDICATE LIGHTING CONTROL ZONE.

ELECTRICAL DEMOLITION NOTES

- THESE DRAWINGS ARE DIAGRAMMATIC ONLY AND ARE TO BE USED AS A GUIDELINE ONLY FOR THE SCOPE OF DEMOLITION WORK. THE CONTRACTOR SHALL VISIT THE PROJECT SITE DURING THE BID PHASE TO VERIFY THE EXACT CONDITIONS AND SCOPE OF WORK REQUIRED FOR A COMPLETE AND INCLUSIVE DEMOLITION PACKAGE.
- THE CONTRACTOR SHALL BE HELD TO HAVE EXAMINED THE PREMISES AND SITE SO AS TO COMPARE THEM WITH THE CONTRACT DOCUMENTS AND TO HAVE SATISFIED HIMSELF AS TO THE CONDITIONS OF THE PREMISES, THE SITE, ANY OBSTRUCTIONS, THE ACTUAL LEVELS, ACCESS PANELS, AND ALL OTHER EXISTING CONDITIONS. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN THE FIELD, SHALL CHECK LOCATION OF AND CONNECTION TO EXISTING FACILITIES, AND SHALL ASSUME ALL RESPONSIBILITY FOR SAME. IT SHALL BE THE ELECTRICAL CONTRACTOR'S RESPONSIBILITY TO LOCATE ALL EXISTING UTILITIES IN WORK AREA PRIOR TO INITIATION OF DEMOLITION ACTIVITIES. BEGINNING OF DEMOLITION SHALL SIGNIFY CONTRACTORS ACCEPTANCE OF EXISTING CONDITIONS AND THE COST OF REWORKING ANY EXISTING SYSTEMS DUE TO CONFLICTS WITH EXISTING CONDITIONS SHALL BE PAID BY CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE FOR ALL REQUIRED DEMOLITION WHETHER SHOWN ON THE PLANS OR NOT.
- THE CONTRACTOR SHALL COORDINATE WITH THE TENANT AND/OR BUILDING MANAGEMENT ALL INTERRUPTION OF ELECTRICAL SERVICES WITHIN THE
- TENANT SPACE AND/OR BUILDING. THE CONTRACTOR SHALL COORDINATE WITH THE ARCHITECTURAL. MECHANICAL HVAC, AND PLUMBING DEMOLITION DRAWINGS FOR ALL EQUIPMENT BEING DEMOLISHED, AND SHALL DISCONNECT AND REMOVE COMPLETE THE ELECTRICAL SERVICES TO ALL EQUIPMENT AND WIRING DEVICES. DEMOLITION DRAWINGS OF ALL DISCIPLINES MUST BE CHECKED AND ALL ASSOCIATED ELECTRICAL DEVICES OF EQUIPMENT REMOVED BY OTHERS MUST BE REMOVED.
- ALL EXISTING LUMINAIRES AND ASSOCIATED CONTROLS, ELECTRICAL EQUIPMENT, WIRING DEVICES, FIRE ALARM DEVICES, ETC. NOT INDICATED ON THIS PLAN SHALL BE EXISTING TO REMAIN, UNLESS SPECIFICALLY NOTED OTHERWISE. FOR ALL RENOVATION/REMOLDING WORK, INCLUDING ALL AREAS OF NO OR MINIMAL WORK, EXISTING ELECTRICAL SERVICES SHALL BE MAINTAINED TO LUMINAIRES, EQUIPMENT, WIRING DEVICES, ETC. (POWER, LIGHTING, ETC.), THAT ARE REQUIRED TO BE MAINTAINED. THE CONTRACTOR SHALL BE RESPONSIBLE TO MAINTAIN THESE SERVICES, EQUIPMENT, WIRING DEVICES THAT ARE EXISTING TO REMAIN, WHETHER OR NOT INDICATED ON THE
- DISCONNECT AND REMOVE ALL EXISTING ELECTRICAL EQUIPMENT, WIRING DEVICES, TELECOM DEVICES, BLANK COVER PLATES, ETC. LOCATED IN WALLS/PARTITIONS LABELED AS "TO BE REMOVED". REMOVE ALL EXISTING BRANCH CIRCUITING (CONDUCTORS AND CONDUIT) BACK TO LAST ACTIVE DEVICE (OR SOURCE IF NO ACTIVE DEVICES REMAIN).
- ALL ELECTRICAL LUMINAIRES, EQUIPMENT, WIRING DEVICES. TELECOMMUNICATIONS VOICE/DATA CABLING, ETC. SHALL BE REMOVED COMPLETE, BACK TO SOURCE, (PANELBOARD, TERMINAL BOARDS, ETC.), INCLUDING ALL BRANCH CIRCUITING, (CONDUCTORS AND CONDUIT), FEEDERS, SUPPORTS, JUNCTION BOXES, PULL BOXES, ETC.
- PROVIDE AND MAINTAIN TEMPORARY ELECTRICAL SERVICES, SUCH AS LIGHTING AND POWER IN ALL AREAS OF DEMOLITION AND SURROUNDING AREAS NOT IN DEMOLITION FOR THE DURATION OF THE PROJECT. COORDINATE ALL TEMPORARY ELECTRICAL SERVICES WITH OWNER'S SITE REPRESENTATIVE AND/OR LOCAL ELECTRIC UTILITY.
- EQUIPMENT AND WIRING DEVICES INDICATED AS (RL) EXISTING TO BE RELOCATED. SHALL BE STORED FOR RE-USE AND RELOCATED TO NEW LOCATION AS INDICATED ON NEW PLAN DRAWINGS. DEVICES SHALL BE CLEANED, LUMINAIRES RE-LAMPED PER SPECIFICATIONS, AND BALLAST
- REPLACED WHERE FOUND TO BE INOPERABLE. EXISTING FIRE ALARM DEVICES THAT ARE LABELED (E) - EXISTING TO REMAIN, SHALL BE PROTECTED FROM CONSTRUCTION DAMAGE AND DIRT. THE FIRE ALARM SYSTEM SHALL BE KEPT OPERABLE DURING CONSTRUCTION. ANY CIRCUITS FEEDING THROUGH EQUIPMENT OR DEVICES THAT ARE BEING DEMOLISHED, REWORKED, OR RELOCATED, AND FEEDING OTHER
- EQUIPMENT/DEVICES THAT REMAIN ARE TO BE MAINTAINED. ALL CUTTING AND PATCHING OF WALLS, CEILINGS, OR FLOORS THAT ARE DISTURBED BY DEMOLITION SHALL BE RETURNED TO THEIR ORIGINAL CONDITION. REFER TO THE ARCHITECTURAL DOCUMENTS FOR EXACT SPECIFICATION REQUIREMENTS. PATCH FLOOR TO ORIGINAL CONSTRUCTION SPECIFICATIONS AND U.L. FIRE RATING LISTINGS FOR ALL FLOOR MOUNTED DEVICES SUCH AS FLOOR BOXES, (FIRE RATED) POKE-THROUGHS, ETC. WHICH
- HAVE BEEN REMOVED ALL EQUIPMENT AND/OR DEVICES THAT ARE REMOVED AND NOT RE-USED SHALL BE TURNED OVER TO THE TENANT AND/OR BUILDING MANAGEMENT OR DISPOSED OF PER THEIR DIRECTION. MATERIAL OF NO SALVAGEABLE VALUE INCLUDING CONDUIT, WIRE AND TRASH RESULTING FROM THE DEMOLITION WORK SHALL BE REMOVED BY THE ELECTRICAL CONTRACTOR PROMPTLY FROM THE JOB SITE AND PROPERLY DISPOSED OF IN A LEGAL MANNER. NO BURNING
- SHALL BE PERMITTED ON THE SITE. IT SHALL BE THE ELECTRICAL CONTRACTOR'S RESPONSIBILITY TO CONDUCT ALL DEMOLITION IN ACCORDANCE WITH OSHA, EPA, AND ALL OTHER APPLICABLE CODES AND REGULATIONS FOR TYPE OF WORK.
- ANY AND ALL ABANDONED CONDUIT AND/OR WIRING FOUND DURING DEMOLITION SHALL BE REMOVED BY THE ELECTRICAL CONTRACTOR AT NO ADDITIONAL EXPENSE.
- REMOVE ALL ELECTRICAL EQUIPMENT, DEVICES, BOXES, CONDUIT AND WIRE IN THE AREA OF NEW CONSTRUCTION UNLESS OTHERWISE NOTED. CONDUIT, WIRE AND ELECTRIC DEVICES WHICH MAY PASS THRU THE AREA OF NEW CONSTRUCTION AND/OR MAY BE AFFECTED BY DEMOLITION SHALL REMAIN OR. IF REQUIRED, SHALL BE RE-WORKED TO KEEP THOSE ITEMS OPERATIONAL. AREAS AND SERVICES ADJACENT TO DEMOLITION AREAS SHALL BE PROTECTED FROM THE DEMOLITION PROCESS. PROTECTIVE MEASURES SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR FOR ALL ELECTRICAL
- WORK AND SHALL BE MAINTAINED CONTINUOUSLY UNTIL DEMOLITION IS COMPLETED. ALL DEMOLITION AND MATERIAL REMOVAL OPERATIONS SHALL BE CAREFULLY AND SAFELY CARRIED OUT. ELECTRICAL CONTRACTOR SHALL BE TOTALLY
- RESPONSIBLE FOR HIS SAFE PRACTICES AND OPERATIONS. PROTECTIVE MEASURES SHALL BE TAKEN DURING DEMOLITION TO KEEP THE INTERIOR OF THE REMAINING BUILDING WEATHERTIGHT. ANY OPENINGS IN THE BUILDING SHELL RESULTING FROM THE DEMOLITION PROCESS SHALL BE
- PROMPTLY SEALED. ANY ITEM INTENDED TO BE REMOVED BUT NOT SHOWN SHALL BE VERIFIED AND REMOVED BY THE ELECTRICAL CONTRACTOR AT NO ADDITIONAL COST.ALL EXISTING CONDUITS PENETRATING FLOORS OR WALLS NOT REQUIRED TO BE REMOVED AND ALL NEW CONDUITS SHALL BE SEALED WITH FIRESTOPPING
- SEALANT. SHIFT AND REROUTE (IF REQUIRED) ANY EXISTING CONDUIT WHICH MAY INTERFERE WITH NEW CONSTRUCTION. ALL DEVICES REMAINING MUST BE LEFT IN A CLEAN AND OPERATING CONDITION.
- ALL BELOW SLAB CONDUIT BEING ABANDONED SHALL BE CUT FLUSH WITH FLOOR AFTER CONDUCTOR REMOVAL AND GROUTED FLUSH WITH FINISHED
- FLOOR. ALL DEMOLITION WORK SHALL BE PERFORMED IN AN ORDERLY FASHION
- WITHOUT ANY DAMAGE TO EXISTING STRUCTURE AND SYSTEMS. EC SHALL FURNISH AND INSTALL ADDITIONAL CONDUIT AND WIRE AS REQUIRED AND EXTEND EXISTING CIRCUITING TO FIXTURES AND DEVICES WHICH REMAIN BUT WHICH MAY BE AFFECTED BY EXISTING FIXTURES AND DEVICES BEING REMOVED AND/OR RELOCATED. FULL EXTENT OF WORK REQUIRED SHALL BE FIELD VERIFIED.

ELECTRICAL GENERAL NOTES

- ELECTRICAL DRAWINGS ARE GENERALLY DIAGRAMMATIC, ARE INTENDED TO CONVEY THE SCOPE OF WORK, AND INDICATE GENERAL ARRANGEMENT OF LIGHTING FIXTURES, DEVICES, CONTROLS, ELECTRICAL FIXTURES, MOTORS, PANELBOARDS, EQUIPMENT, ETC. THE LOCATIONS OF ALL ITEMS SHOWN ON ELECTRICAL DRAWINGS OR CALLED FOR IN THE SPECIFICATIONS THAT ARE NOT EXPLICITLY FIXED BY DIMENSIONS ARE APPROXIMATE. THE EXACT LOCATIONS NECESSARY TO SECURE THE BEST CONDITIONS AND RESULTS MUST BE DETERMINED AT THE PROJECT. ALL LOCATIONS OF WORK EXPOSED TO VIEW ARE SUBJECT TO APPROVAL OF THE ARCHITECT PRIOR TO ROUGH-INS.
- ALL DEVICES, EQUIPMENT, FIXTURES, ETC., MUST BE GROUNDED BY USE OF A PROPERLY SIZED GROUNDING CONDUCTOR. MECHANICAL/ELECTRICAL BONDS OF THE METALLIC RACEWAY SYSTEM SHALL ALSO BE MAINTAINED. REFER TO MECHANICAL, PLUMBING, AND FIRE PROTECTION PLANS FOR EXACT
- LOCATION OF MECHANICAL AND PLUMBING EQUIPMENT. COORDINATE LOCATION OF DISCONNECT SWITCH ASSOCIATED WITH EACH PIECE OF EQUIPMENT WITH RESPECTIVE CONTRACTOR AND INSTALL IN ACCORDANCE
- REFER TO DIVISION 15 (21, 22 & 23) SPECIFICATIONS, HVAC, PLUMBING & FIRE PROTECTION PLANS FOR ADDITIONAL ELECTRICAL WORK REQUIREMENTS & COORDINATION.
- ALL RECEPTACLES SHOWN BACK-TO-BACK IN WALLS SHALL BE SEPARATED HORIZONTALLY BY 8" MINIMUM.
- WHERE OPEN WIRING METHODS FOR LOW VOLTAGE SYSTEMS ARE PERMITTED BY THE CONTRACT DOCUMENTS, OWNER AND LOCAL AUTHORITY, THE CABLE/CONDUCTOR INSULATION SHALL BE RATED PER NEC FOR ENVIRONMENT (I.E. PLENUM RATED, ETC.) BEING INSTALLED.
- BRANCH CIRCUIT CONDUCTOR SIZES (& CONDUITS) SHALL BE INCREASED FROM THOSE INDICATED ON THE PLANS TO PREVENT EXCESSIVE VOLTAGE DROP. BRANCH CIRCUITS SHALL BE INSTALLED WITH WIRES OF SUFFICIENT SIZE SO THAT VOLTAGE DROP BETWEEN THE PANEL & THE LOADS DO NOT EXCEED A LIMIT OF 3%.
- REGARDLESS OF THE TEMPERATURE RATING OF THE CONDUCTOR INSULATION. ALL CONDUCTOR AMPACITY RATINGS FOR THIS PROJECT SHALL BE DETERMINED FROM THE 75°C CONDUCTOR TEMPERATURE RATINGS INDICATED IN THE NEC TABLES. WHERE EQUIPMENT OR DEVICES ARE PROVIDED WITH TERMINALS/LUGS RATED FOR 60°C, THE AMPACITY RATING OF THE 75°C CONDUCTOR SHALL BE LIMITED TO ITS ASSOCIATED 60°C RATING AS INDICATED IN THE NEC TABLES. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE TO INCREASE THE CONDUCTORS AND CONDUIT SIZE AS REQUIRED.
- ALL 120V AND 277V BRANCH CIRCUITS SHALL BE PROVIDED WITH SEPARATE NEUTRAL CONDUCTORS. SHARED NEUTRALS WILL NOT BE PERMITTED FOR MULTI-CIRCUIT INSTALLATIONS. WHERE MULTIPLE CIRCUITS ARE RUN IN A COMMON RACEWAY, THE AMPACITY OF THE CONDUCTORS SHALL BE PROPERLY DERATED & CONDUIT SHALL BE SIZED PER CODE. UNDER NO CIRCUMSTANCES SHALL MORE THAN SIX (6) CURRENT CARRYING CONDUCTORS BE RUN IN A SINGLE CONDUIT. REFERENCE NEC ARTICLE AND TABLE 310.15(B)(3)(a).
- #250.122. IN ADDITION, WHERE AN ISOLATED, INSULATED GROUND IS REQUIRED, A SEPARATE GROUND CONDUCTOR WITH GREEN INSULATION SHALL BE RUN FROM THE PANEL GROUND BUS TO THE ISOLATED GROUND CONNECTION OF THE DEVICE. IN NO CASE SHALL THE SYSTEM GROUND (CONDUCTOR & ASSOCIATED OUTLET BOXES, CONDUIT & BUILDING STEEL) BE ALLOWED TO CONTACT THE ISOLATED GROUND (CONDUCTOR & DEVICE). WHERE CIRCUIT CONDUCTORS ARE INCREASED IN SIZE FOR ANY REASON (I.E. VOLTAGE DROP, DERATING, ETC.), THE GROUND CONDUCTOR SIZE SHALL BE INCREASED PROPORTIONATELY (ACCORDING TO CIRCULAR MIL AREA) FROM
- PROTECTION, SPECIAL SYSTEMS AND OWNER EQUIPMENT BEING FURNISHED BY OTHERS SHALL BE REVIEWED AND COORDINATED WITH OTHER TRADES PRIOR TO ROUGH-IN. OBTAIN EQUIPMENT SHOP DRAWINGS FROM INSTALLER/SUPPLIER/CONTRACTOR/OWNER FURNISHING EQUIPMENT. AS REQUIRED, FOR REVIEW AND COORDINATION. CONTACT ARCHITECT/ENGINEER WITH ANY DISCREPANCIES FOUND BETWEEN CONSTRUCTION DRAWINGS AND EQUIPMENT BEING FURNISHED PRIOR TO ROUGH-IN.
- THE ELECTRICAL CONTRACTOR SHALL FURNISH ALL ACCESS PANELS, AS REQUIRED FOR SERVICING AND TESTING, FOR EQUIPMENT AND/OR DEVICES FURNISHED UNDER HIS CONTRACT. THE GENERAL CONTRACTOR SHALL INSTALL ACCESS PANELS. THE ELECTRICAL CONTRACTOR SHALL COORDINATE THE SIZE AND LOCATION OF EACH ACCESS PANEL WITH THE ARCHITECT AND
- ELECTRICAL CONTRACTOR SHALL INCLUDE IN HIS BID ALL CUTTING, TRENCHING AND PATCHING ASSOCIATED WITH THE ELECTRICAL INSTALLATION. ALL PENETRATIONS IN OR THROUGH FIRE RATED ASSEMBLIES ASSOCIATED
- WITH THE ELECTRICAL INSTALLATION SHALL BE FIRE-STOPPED USING A UL APPROVED METHOD. FURNISH AND INSTALL UL LISTED FIRE RATED MATERIALS AND EQUIPMENT SUCH AS BOXES, PUDDY PADS, ENDOTHERMIC MAT, LIGHT FIXTURES WITH RATED ENCLOSURES, ETC... TO COMPLY WITH CODE FOR PROJECT CONDITIONS. FURNISH AND INSTALL SLEEVES, WHERE REQUIRED. UL APPROVED METHOD FOR FIRE STOPPING SHALL MEET OR EXCEED FIRE RATING OF STRUCTURE BEING PENETRATED. REFERENCE ARCHITECTURAL PLANS FOR
- ALL ELECTRICAL EQUIPMENT AND DEVICES FOR THIS PROJECT MUST BE UL LISTED. DEVICES, EQUIPMENT, SYSTEMS SHALL BE INSTALLED PER N.E.C. REQUIREMENTS AND MANUFACTURER'S INSTRUCTIONS.
- SHALL BE RATED TO COMPLY WITH NEC PER THE APPLICATION. WHERE MOUNTED WITHIN A FIRE RATED WALL OR STRUCTURE, FURNISH AND INSTALL UL APPROVED FIRE STOPPING ASSEMBLIES AND MATERIALS TO MAINTAIN TO INSTALL A SURFACE MOUNTED DEVICE, CONSULT ARCHITECT/ENGINEER FOR APPROVAL PRIOR TO INSTALLATION
- SHALL BE CONCEALED FROM SIGHT WITHIN THE BUILDING CONSTRUCTION UNLESS OTHERWISE NOTED. THE CONDUIT, CABLES, RACEWAYS AND PATHWAYS BEING FURNISHED SHALL BE RATED TO COMPLY WITH NEC PER THE APPLICATION. WHEN THERE IS NO AVAILABLE OPTION BUT TO INSTALL A VISIBLE CONDUIT, CABLE, RACEWAY OR PATHWAY, CONSULT ARCHITECT/ENGINEER FOR APPROVAL PRIOR TO INSTALLATION.
- THE NATIONAL ELECTRICAL CODE. FOR EXISTING INSTALLATIONS, THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE TO REPLACE AND/OR REWORK EXISTING CONDUIT AND/OR CABLING THAT IS NOT IN COMPLIANCE
- WITH THIS REQUIREMENT. CONTRACTOR SHALL FIELD VERIFY SLAB ON GRADE FLOOR CONSTRUCTION TYPE PRIOR TO CUTTING. UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR CUT A STRUCTURAL FLOOR SLAB THICKER THAN FOUR (4") INCHES WITHOUT PRIOR WRITTEN APPROVAL FROM ENGINEER OF RECORD. NOTIFY ENGINEER OF RECORD OF ANY SLAB THICKNESS GREATER THAN FOUR (4") INCHES PRIOR TO PROCEEDING WITH ANY SAW CUTTING.
- ANY AND ALL "BUILDING STANDARDS" AND/OR "BUILDING" SPECIFICATIONS"

BE CONSIDERED AN INTEGRAL PART OF THESE DOCUMENTS AND THE CONTRACTOR SHALL BE RESPONSIBLE TO OBTAIN A COPY OF THESE DOCUMENTS AND COMPLY WITH ALL REQUIREMENTS AND STANDARDS

ELECTRICAL APPREVIATIONS

ELECTRICAL ABBREVIATIONS							
A A/C ADA AFCI AFF AFG AIC AL ANSI ARCH AUX AWG A/V	AMPERES, AMPERAGE AIR CONDITIONING AMERICANS WITH DISABILITIES ACT ARC FAULT CURRENT INTERRUPTER ABOVE FINISHED FLOOR ABOVE FINAL GRADE AVAILABLE INTERRUPTING CURRENT ALUMINUM AMERICAN NAT'L STANDARDS INSTITUTE ARCHITECT, ARCHITECTURAL AUXILIARY AMERICAN WIRE GAUGE AUDIO/VISUAL						
BD BKR BLDG	BUS DUCT BREAKER BUILDING						
°C C C/B CKT CLG CRI CT	CELSIUS DEGREES CONDUIT CIRCUIT BREAKER CIRCUIT CEILING COLOR RENDERING INDEX CURRENT TRANSFORMER COPPER						
dB	DECIBEL						

DISC,DS DISCONNECT SWITCH DRAWING ELECTRICAL CONTRACTOR EXHAUST FAN

FIRE ALARM CONTROL PANEL

INTERNATIONAL BUILDING CODE

ISOLATED GROUND

KILOVOLT-AMPS

KILOWATT-HOUR

LIGHT EMITTING DIODE

MECHANICAL CONTRACTOR

MINIMUM CIRCUIT AMPACITY

MECHANICAL, ELECTRICAL, PLUMBING

MAXIMUM OVERCURRENT PROTECTION

MAIN CIRCUIT BREAKER

MANUFACTURER

MISCELL ANEOUS

NOT APPLICABLE

NORMALLY CLOSED

NOT IN CONTRACT

NORMALLY OPEN

OHIO BUILDING CODE

PLUMBING CONTRACTOR

REFLECTED CEILING PLAN

REMOVE AND RELOCATE

RIGID GALVANIZED STEEL

SERVICE ENTRANCE RATED

SQUARE FOOT, SQUARE FEET

UNDERWRITERS LABORATORIES, INC.

POLYVINYL CHLORIDE

NOT TO SCALE

ON CENTER

OVERHEAD

PHASE

QUANTITY

RECEPTACLE

REMOVE EXISTING

ROOFTOP UNIT

REQUIRED

REVISION

THROUGH

TYPICAL

UNDERCOUNTER

UNIVERSAL SERIAL BUS

UNLESS OTHERWISE NOTED

UNINTERRUPTED POWER SUPPLY

UNDERGROUND

VOLT-AMPERE

WITH

VOLTS, VOLTAGE WATT, WATTS

WEATHERPROOF

TRANSFORMER

NATIONAL ELECTRICAL CODE

NATIONAL ELECTRICAL MFR'S ASSOC.

NATIONAL FIRE PROTECTION ASSOC.

OCCUPATIONAL SAFETY & HEALTH ADMIN.

KILOWATTS

LIGHTING

MAXIMUM

MINIMUM

MOUNTED

ETR **EXISTING TO REMAIN** ELECTRICAL METALLIC TUBING EXISTING **EXTERIOR** FAHRENHEIT DEGREES FIRE ALARM

FACP

KVA

KWH

LTG

MAX

MCB

MEP

MFR

MIN

MTD

NEC

NEMA

NFPA

NTS

OSHA

PH.Ø

QTY

REQ'D

RTU

SF

T/C,TC

THRU

UG

USB

UON

UPS

XFMR

FARA FIRE ALARM REMOTE ANNUNCIATOR FPC FIRE PUMP CONTROL PANEL FOOT, FEET GENERAL CONTRACTOR ALL CONDUITS SHALL CONTAIN A GROUND CONDUCTOR SIZED PER NEC TABLE GFI,GFCI GROUND FAULT CIRCUIT INTERRUPTER **HORSEPOWER** HVAC HEATING, VENTILATING, & A/C

- THE SIZE REQUIRED BY NEC TABLE #250.122. ELECTRICAL INSTALLATION REQUIREMENTS FOR ALL HVAC, PLUMBING, FIRE
- GENERAL CONTRACTOR PRIOR TO ROUGH-IN.
- NO CONDUIT, BOXES, WIRING, OR CABLES SHALL BE INSTALLED WITHIN 1 1/2" OF THE LOWEST POINT OF THE UNDERSIDE OF THE ROOF DECKING, NOR SHALL THEY BE INSTALLED CONCEALED WITHIN METAL-CORRUGATED ROOF DECKING. FOR EXISTING INSTALLATIONS, THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE TO REPLACE AND/OR REWORK EXISTING CONDUIT, BOXES.
- WIRING, AND CABLING THAT IS NOT IN COMPLIANCE WITH THIS REQUIREMENT.
- THE DESIGN INTENT IS ALL DEVICES SHALL BE RECESSED MOUNTED, UNLESS OTHERWISE NOTED. THE DEVICE BACK-BOX AND RACEWAY BEING FURNISHED RATING OF WALL OR STRUCTURE. WHEN THERE IS NO AVAILABLE OPTION BUT
- THE DESIGN INTENT IS ALL CONDUIT, CABLES, RACEWAYS AND PATHWAYS
- ALL CONDUIT AND CABLING SHALL BE PROPERLY SUPPORTED AS REQUIRED BY
- IN OTHER THAN DWELLING UNITS, ALL 125-VOLT THROUGH 250-VOLT RECEPTACLES SUPPLIED BY SINGLE PHASE BRANCH CIRCUITS RATED 150 VOLTS OR LESS TO GROUND, 50 AMPERES OR LESS, AND ALL RECEPTACLES SUPPLIED BY THREE PHASE BRANCH CIRCUITS RATED 150 VOLTS OR LESS TO GROUND, 100 AMPERES OR LESS, INSTALLED IN LOCATIONS IDENTIFIED IN 210-8(B) SHALL HAVE GROUND-FAULT CIRCUIT-INTERRUPTER PROTECTION FOR PERSONNEL. WHERE DEVICE IS READILY ACCESSIBLE, THE DEVICE SHALL BE PROVIDED WITH INTEGRAL GROUND FAULT PROTECTION. WHERE DEVICE IS NOT READILY ACCESSIBLE AND/OR NOT AVAILABLE WITH INTEGRAL GROUND FAULT PROTECTION, THE BRANCH CIRCUIT BREAKER SERVING THE DEVICE(S) SHALL BE GROUND FAULT TYPE.

CONTAINED WITHIN.

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City of Elyria

Project:

Public Safety Training Facilit Range Building

Garden Street Elyria, Ohio 44035

Revisions:

09.26.2024 For Construction

Project Number: 5039 01 23 ACG Drawn by: ACG Checked by: Copyright: 2024

Electrical Symbols, **Abbreviations**

ELECTRICAL GENERAL NOTES

- A. REFERENCE ARCHITECTURAL, MECHANICAL AND PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION. COORDINATE ELECTRICAL WORK WITH OTHER TRADES.
- B. WHERE THE UTILITY TRANSFORMER, SWITCHING AND/OR METERING EQUIPMENT SHALL BE INSTALLED PAD-MOUNTED IN A PAVED AREA ACCESSIBLE TO VEHICULAR TRAFFIC, THE ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL CONCRETE FILLED BOLLARDS AROUND ALL SUCH ELECTRICAL EQUIPMENT. PROVIDE BOLLARDS AT ALL ACCESSIBLE CORNERS OF EQUIPMENT WITH ADDITIONAL BOLLARDS IN BETWEEN AS REQUIRED FOR A MAXIMUM SPACING OF 4'-0" ON CENTER. VERIFY EXACT LOCATION OF BOLLARDS WITH ENGINEER AND ARCHITECT PRIOR TO INSTALLATION. MAINTAIN ALL REQUIRED CLEARANCE AND ACCESS REQUIREMENTS PER POWER COMPANY, CODE AND LOCAL AUTHORITY HAVING JURISDICTION.
- C. MINIMUM UNDERGROUND CONDUIT SIZE SHALL BE 1 INCH, UNLESS OTHERWISE NOTED.
- D. TELEPHONE, DATA, CABLE TV, AND ELECTRIC UTILITY DUCT BANKS SHALL BE INSTALLED PER RESPECTIVE UTILITY COMPANY/PROVIDER'S REQUIREMENTS.
- E. CAP ALL CONDUIT STUBS AND MARK ENDS WITH IRON PINS.
- F. PROVIDE PULL-WIRE IN ALL DUCT BANKS.
- G. PROVIDE METALLIC MARKING TAPE OVER ALL DUCTS/DUCTBANKS.
- TOP OF ELECTRICAL DUCT BANK SHALL BE A MINIMUM OF 36" BELOW FINISHED GRADE, TOP OF TELEPHONE, DATA, CABLE TV (COMMUNICATIONS) DUCT BANKS SHALL BE A MINIMUM OF 24" BELOW FINISHED GRADE, UNLESS OTHERWISE REQUIRED BY RESPECTIVE UTILITY COMPANIES.
- CONCRETE ENCASE DUCT BANKS AND/OR CONDUIT WHERE ROUTED UNDER DRIVEWAYS, ROADWAYS OR PARKING AREAS.
- J. COORDINATE ROUTING AND INSTALLATION OF PROPOSED ELECTRIC PRIMARY, ELECTRIC SECONDARY, AND COMMUNICATION DUCTBANKS. COORDINATE PATHS, DEPTHS AND CONFIGURATIONS TO MAINTAIN CODE REQUIRED DEPTHS FROM TOP OF DUCTBANK TO FINISHED GRADE WHERE DUCTBANKS CROSS PATHS.
- K. CONTRACTORS SHALL RETURN THE EXISTING AREAS BACK TO ITS ORIGINAL CONDITION WHERE NEW WORK IS TO BE PERFORMED IN EXISTING AREAS TO REMAIN.
- L. REFERENCE CIVIL UTILITY PLANS FOR SITE UTILITY DESIGN INFORMATION. COORDINATE WORK WITH OTHER TRADES.
- M. CONTRACTOR SHALL OBTAIN THE SERVICES OF A LICENSED SURVEYOR TO IDENTIFY, COORDINATE AND RECORD EXACT LOCATIONS OF UNDERGROUND UTILITIES. RECORD DRAWINGS (HARD COPIES AND ELECTRONIC CAD FILES) SHALL BE PROVIDED TO OWNER.
- N. CONTRACTOR SHALL INCLUDE ALL TRENCHING AND BACKFILLING ASSOCIATED WITH ELECTRICAL WORK IN BID.
- O. WHERE DEVICES AND EQUIPMENT ARE SUBJECT TO WATER AND OR MOISTURE, THE DEVICE OR ASSOCIATED CIRCUIT SHALL BE GFI PROTECTED. EQUIPMENT ENCLOSURES SHALL BE NEMA 3R RATED AT A MINIMUM.
- P. COORDINATE FINAL LOCATION OF ALL ELECTRICAL DEVICES AND EQUIPMENT WITHIN LANDSCAPED AND HARDSCAPED AREAS WITH ARCHITECTURAL DRAWINGS PRIOR TO INSTALLATION.
- Q. REFER TO ELECTRICAL ONE-LINE DIAGRAM FOR CONDUIT SIZES AND QUANTITIES ASSOCIATED WITH THE UNDERGROUND PRIMARY AND SECONDARY SERVICE LATERAL DUCT BANKS.
- R. ALL CONDUIT IN UNDERGROUND DUCT BANKS SHALL BE SUPPORTED WITH BASE AND INTERMEDIATE DUCT SPACERS.
- S. ELECTRICAL CONTRACTOR SHALL BACKFILL ALL ELECTRICAL TRENCHES USING CLEAN FILL MATERIAL FREE OF ORGANIC CONTAMINATIONS AND OTHER DELETERIOUS MATTER. PLACE BACKFILL MATERIAL IN 8" THICK LAYERS WITH EACH LIFT COMPACTED AT NEAR OPTIMUM MOISTURE CONTENT. COMPACT LIFTS TO ACHIEVE A MINIMUM IN PLACE DENSITY OF 95% OF THE MAXIMUM DENSITY AS DETERMINED BY ASTM D698.
- T. ELECTRICAL CONTRACTOR SHALL COORDINATE LOCATION OF EASEMENTS, UNDERGROUND UTILITIES, AND DRAINAGE PRIOR TO TRENCHING OR AUGERING FOR POLE BASE (TYPICAL).





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Drawn by: ACG
Checked by: ACG
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Electrical Site Plan

EO.01

Range Support Building Lighting Plan

GENERAL NOTES:

1. ALL ELECTRICAL ROOMS, TECHNOLOGY/DATA CLOSETS, EXIT STAIRWELLS, AND ELEVATOR EQUIPMENT ROOMS. UNDER NO CIRCUMSTANCES SHALL PIPING, DUCTWORK, OR EQUIPMENT BE INSTALLED IN OR ROUTED THROUGH THESE ROOMS OR AREAS EXCEPT FOR BRANCH PIPING OR DUCTWORK SPECIFICALLY SERVING THE ROOM OR AREA. DEDICATED SPACE SHALL EXTEND VERTICALLY FROM FLOOR TO STRUCTURAL CEILING.

2. REFERENCE ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION RELATED TO THE ELECTRICAL INSTALLATION. COORDINATE LIGHT FIXTURE LOCATIONS AND MOUNTING OPTIONS WITH CEILING TYPE BEING INSTALLED.

3. ARCHITECTURAL DRAWINGS HAVE PRIORITY OVER MEP DRAWINGS WITH REGARD TO LOCATIONS OF ALL VISIBLE ELEMENTS AND DEVICES. COORDINATE EXACT DEVICE LOCATION WITH ARCHITECTURAL DRAWINGS.

4. REFERENCE MECHANICAL, PLUMBING, FIRE PROTECTION DRAWINGS FOR ADDITIONAL INFORMATION. COORDINATE ELECTRICAL CONDUIT, WIRE, LIGHT FIXTURE AND EQUIPMENT LOCATIONS WITH MECHANICAL, PLUMBING AND FIRE PROTECTION EQUIPMENT.

5. WHERE EMERGENCY AND EXIT FIXTURES WITH AN INTEGRAL BATTERY PACK ARE USED, WIRE FIXTURES AHEAD OF ALL SWITCHING ON CIRCUIT INDICATED. EMERGENCY BATTERY BALLAST'S ASSOCIATED WITH THE LIGHT FIXTURES SHALL BE WIRED FOR SWITCHED OPERATION, UNLESS INDICATED OTHERWISE. PROVIDE AN ADDITIONAL HOT WIRE TO EMERGENCY BALLAST FOR SWITCHED OPERATION.

6. WHERE STANDARD LIGHT FIXTURES ARE USED FOR EMERGENCY LIGHTING POWERED FROM GENERATOR CIRCUITS, WIRE FIXTURES TO ALLOW FOR SWITCHED OPERATION, UNLESS OTHERWISE NOTED. PROVIDE THE REQUIRED LIGHTING CONTROL EQUIPMENT AND/OR DEVICES THAT ARE UL 924 LISTED TO ENABLE FIXTURES WIRED TO EMERGENCY POWER CIRCUITS TO OPERATE AT FULL RATED LUMEN OUTPUT.

7. LIGHT FIXTURES DESIGNATED AS NIGHT LIGHTS (NL) SHALL BE WIRED FOR 24 HOUR OPERATION (NON-SWITCHED).

FURNISH AND INSTALL OCCUPANCY AND DAYLIGHT SENSORS PER MANUFACTURER'S RECOMMENDATIONS. COORDINATE WITH THE G.C., OWNER AND/OR OWNER'S REPRESENTATIVE TO COMMISSION AND ADJUST THE SETTINGS OF EACH SENSOR.

PROVIDE TEMPORARY POWER AND TEMPORARY EMERGENCY, EXIT AND GENERAL LIGHTING FOR ALL AREAS OF CONSTRUCTION AS REQUIRED. COORDINATE REQUIREMENTS WITH GENERAL CONTRACTOR.

10. PRIOR TO ROUGH-IN COORDINATE EXACT POWER REQUIREMENTS AND LOW VOLTAGE ROUGH-IN REQUIREMENTS FOR EQUIPMENT AND SYSTEMS FURNISHED BY THE OWNER.

11. COORDINATE SCHEDULE WITH G.C. AND OWNER 'S REPRESENTATIVE TO CORE DRILL AND SAW CUT FLOOR SLABS FOR INSTALLATION OF FLOOR BOXES. ASSUME CORING AND SAW CUTTING OF SLABS IS TO OCCUR DURING NON-BUSINESS HOURS.

2. NEW CONDUIT/RACEWAY BEING INSTALLED SHALL BE CONCEALED WITHIN NEW AND EXISTING CONSTRUCTION. WHERE REQUIRED, INSTALL MC CABLE IN EXISTING STUD WALLS AND INSTALL SURFACE MOUNTED RACEWAY ON EXISTING BLOCK WALLS. WHEN THERE IS NO AVAILABLE OPTION BUT TO SURFACE MOUNT A VISIBLE CONDUIT/ RACEWAY, CONSULT ARCHITECT/ENGINEER FOR APPROVAL PRIOR TO INSTALLATION.

13. ALL EXISTING UNUSED WIRE, CABLING, CONDUIT AND EQUIPMENT SHALL BE REMOVED COMPLETE.

4. REFERENCE DEMOLITION NOTES, DRAWING E0.00.

5. ALL LOW VOLTAGE CABLING AND WIRING LOCATED OUTSIDE OF TENANT'S LEASED SPACE SHALL BE INSTALLED IN RIGID CONDUIT.

6. WHEN MULTIPLE DEVICES ARE ADJACENT TO EACH OTHER, GANG DEVICES TOGETHER WITHIN COMMON COVERPLATE.

A R C H I T E C T U R E

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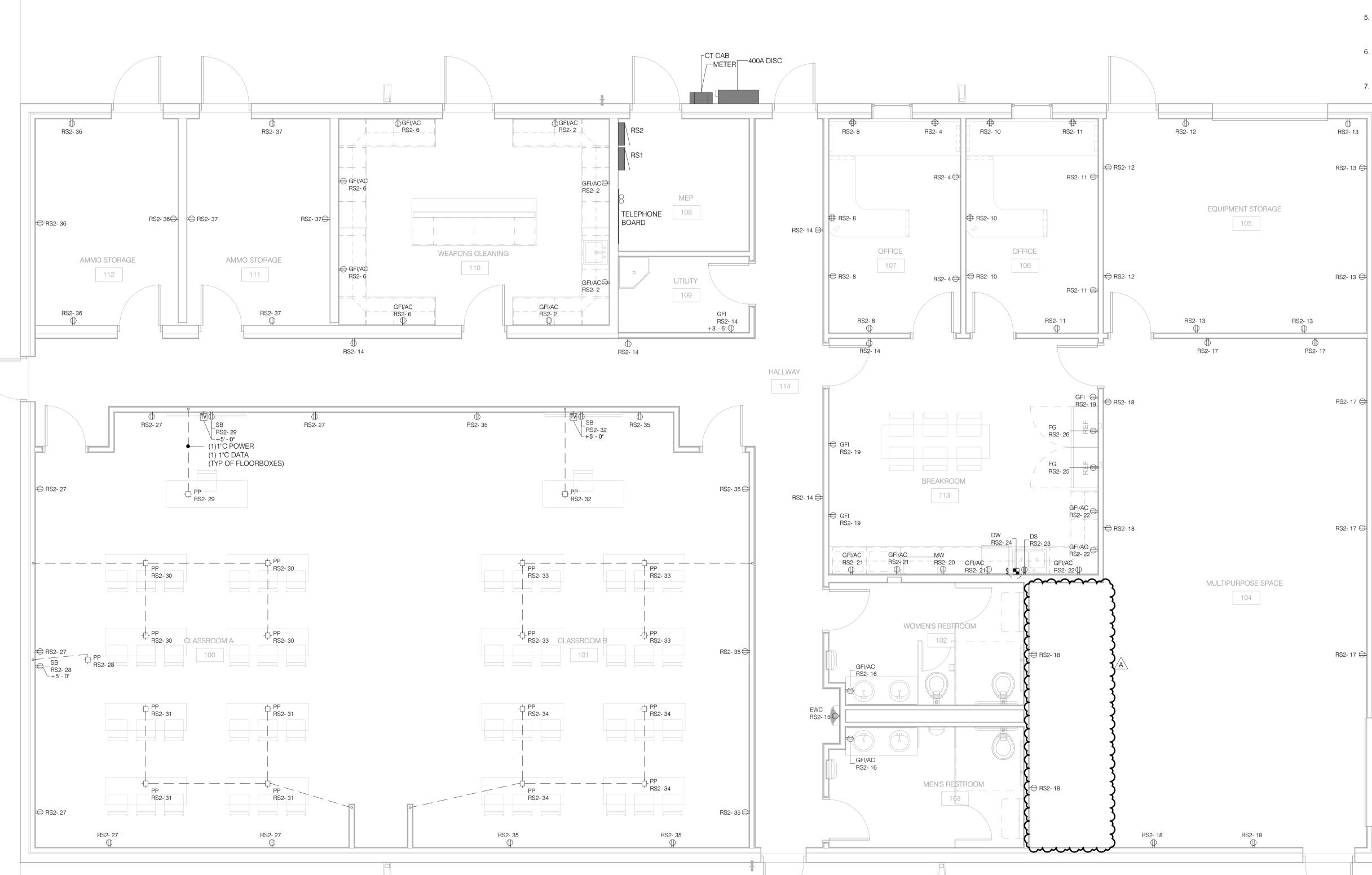
Lighting Plan

E1.01

POWER GENERAL NOTES:

1. ALL ELECTRICAL ROOMS, TECHNOLOGY/DATA CLOSETS, EXIT STAIRWELLS, AND ELEVATOR EQUIPMENT ROOMS. UNDER NO CIRCUMSTANCES SHALL PIPING, DUCTWORK, OR EQUIPMENT BE INSTALLED IN OR ROUTED THROUGH THESE ROOMS OR AREAS EXCEPT FOR BRANCH PIPING OR DUCTWORK SPECIFICALLY SERVING THE ROOM OR AREA. DEDICATED SPACE SHALL EXTEND VERTICALLY FROM FLOOR TO STRUCTURAL CEILING.

- REFERENCE ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION RELATED TO THE ELECTRICAL INSTALLATION. COORDINATE DEVICE LOCATIONS WITH FURNITURE AND EQUIPMENT BEING PROVIDED.
- ARCHITECTURAL DRAWINGS HAVE PRIORITY OVER MEP DRAWINGS WITH REGARD TO LOCATIONS OF ALL VISIBLE ELEMENTS AND DEVICES. COORDINATE EXACT DEVICE LOCATIONS WITH DIMENSIONS INDICATED ON ARCHITECTURAL DRAWINGS. REFERENCE ARCHITECTURAL ELEVATIONS AND TYPICAL DEVICE MOUNTING DETAILS AND NOTES.
- REFERENCE MECHANICAL AND PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION. COORDINATE ELECTRICAL CONDUIT, WIRE, LIGHT FIXTURES, DEVICES AND EQUIPMENT LOCATIONS WITH MECHANICAL AND PLUMBING EQUIPMENT.
- 5. PRIOR TO ROUGH-IN, COORDINATE EXACT POWER REQUIREMENTS AND LOW VOLTAGE ROUGH-IN REQUIREMENTS FOR ALL EQUIPMENT AND SYSTEMS BEING FURNISHED BY OWNER AND OTHER TRADES.
- PROVIDE TEMPORARY POWER AND TEMPORARY, EMERGENCY, EXIT AND GENERAL LIGHTING FOR AREAS OF CONSTRUCTION, AS REQUIRED
- 7. WHEN MULTIPLE DEVICES ARE ADJACENT TO EACH OTHER, GANG DEVICES TOGETHER WITHIN COMMON COVERPLATE.



1 Range Support Building Level 1 Power Plan

1/4" = 1'-0"

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Power Plan

POWER GENERAL NOTES:

- 1. ALL ELECTRICAL ROOMS, TECHNOLOGY/DATA CLOSETS, EXIT STAIRWELLS, AND ELEVATOR EQUIPMENT ROOMS. UNDER NO CIRCUMSTANCES SHALL PIPING, DUCTWORK, OR EQUIPMENT BE INSTALLED IN OR ROUTED THROUGH THESE ROOMS OR AREAS EXCEPT FOR BRANCH PIPING OR DUCTWORK SPECIFICALLY SERVING THE ROOM OR AREA. DEDICATED SPACE SHALL EXTEND VERTICALLY FROM FLOOR TO STRUCTURAL CEILING.
- 2. REFERENCE ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION RELATED TO THE ELECTRICAL INSTALLATION. COORDINATE DEVICE LOCATIONS WITH FURNITURE AND EQUIPMENT BEING PROVIDED.
- 3. ARCHITECTURAL DRAWINGS HAVE PRIORITY OVER MEP DRAWINGS WITH REGARD TO LOCATIONS OF ALL VISIBLE ELEMENTS AND DEVICES. COORDINATE EXACT DEVICE LOCATIONS WITH DIMENSIONS INDICATED ON ARCHITECTURAL DRAWINGS. REFERENCE ARCHITECTURAL ELEVATIONS AND TYPICAL DEVICE MOUNTING DETAILS AND NOTES.
- REFERENCE MECHANICAL AND PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION. COORDINATE ELECTRICAL CONDUIT, WIRE, LIGHT FIXTURES, DEVICES AND EQUIPMENT LOCATIONS WITH MECHANICAL AND PLUMBING EQUIPMENT.
- 5. PRIOR TO ROUGH-IN, COORDINATE EXACT POWER REQUIREMENTS AND LOW VOLTAGE ROUGH-IN REQUIREMENTS FOR ALL EQUIPMENT AND SYSTEMS BEING FURNISHED BY OWNER AND OTHER TRADES.
- AND GENERAL LIGHTING FOR AREAS OF CONSTRUCTION, AS **REQUIRED**
- 7. WHEN MULTIPLE DEVICES ARE ADJACENT TO EACH OTHER, GANG DEVICES TOGETHER WITHIN COMMON COVERPLATE.

CODED NOTES: |##|

- PROVIDE MANUAL EMERGENCY ALARM SYSTEM PER OBC 415.5.1 WITH ALARM INITIATING DEVICES OUTSIDE EACH INTERIOR EXIT ACCESS
- 2. GATE CONTROL CIRCUIT, REFERENCE E0.01 ELECTRICAL SITE PLAN.

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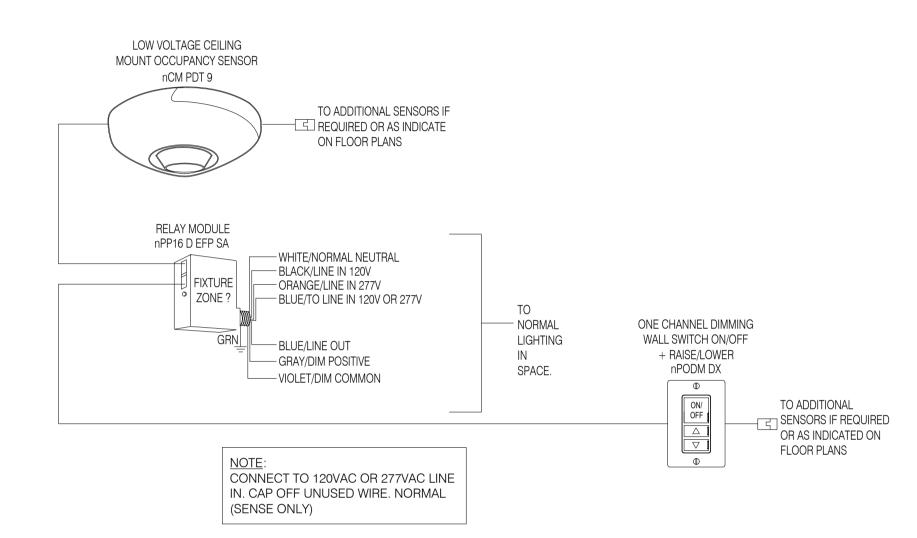
Systems Plan



1 Range Support Building Level 1 Systems Plan

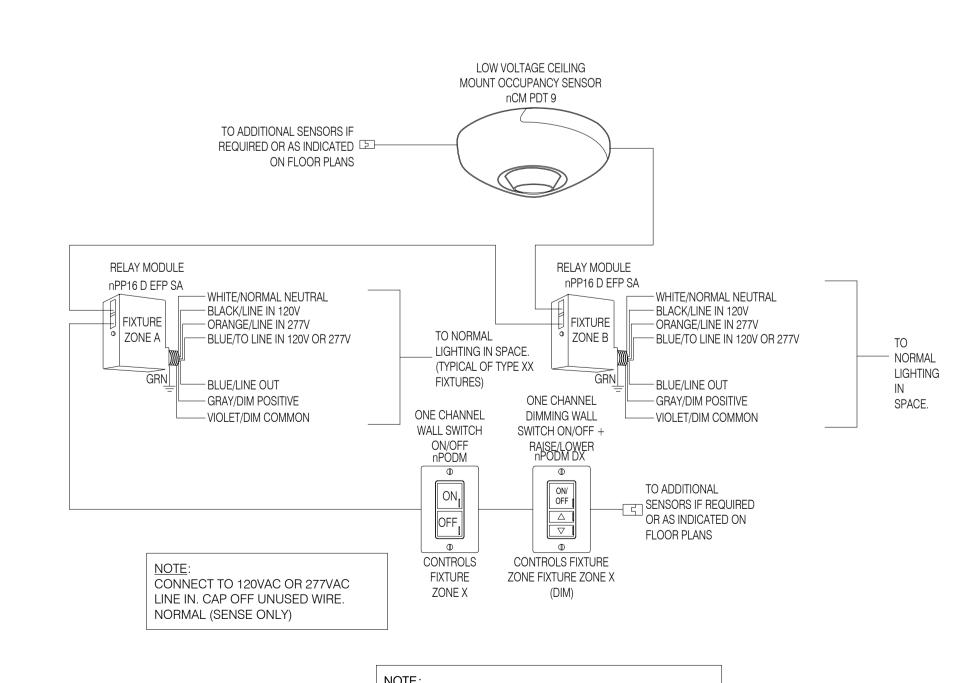
1/4" = 1'-0"

										MECHANICAL EQUIPMENT EL	ECTRICAL CONNECTIONS SCHEDULE
		I VOLTAG	DLIAC			MOC	LOAD		01/7	r I	
TYPE		VOLTAG E	PHAS	LOAD	MCA	MOC	C LOAD HP CLASSIFICATIO	N PANEL	CK1	CONNECTION	FEEDER SIZE COMMENTS
CU	1	208 V	1	5782		0 A	Motor		- "	NEMA 3R 30A/2P DISCONNECT	(2)#10 & (10#10 GND
				VA						SWITCH	IN 3/4"C
CU	2	208 V	1	5782	28 A	0 A	Motor			NEMA 3R 30A/2P DISCONNECT	(2)#10 & (10#10 GND
				VA						SWITCH	IN 3/4"C
CU	3	208 V	1	5782	28 A	0 A	Motor			NEMA 3R 30A/2P DISCONNECT	(2)#10 & (10#10 GND
				VA						SWITCH	IN 3/4"C
EF	1	120 V	1	62 VA	1 A	15 A	Motor	RS2	3	DIRECT	(2)#12 & (1)#12 GND CONNECT TO LOCAL LIGHTSWITCH IN 3/4"C
EF	2	120 V	1	62 VA	1 A	15 A	Motor	RS2	3	DIRECT	(2)#12 & (1)#12 GND CONNECT TO LOCAL LIGHTSWITCH IN 3/4"C
	_					ļ	+ +				
EF	3	120 V	1	17 VA	0 A	15 A	Motor	RS2	7	DIRECT	(2)#12 & (1)#12 GND CONNECT TO LOCAL LIGHTSWITCH IN 3/4"C
F	1	120 V	1	1644	14 A	20 A	Motor	RS1	3	NEMA 1 30A/1P FUSED	(2)#12 & (1)#12 GND PROVIDE PATHWAY TO REMOTE THERMOSTAT
				VA						DISCONNECT	IN 3/4"C
F	2	120 V	1	1632	14 A	20 A	Motor	RS1	4	NEMA 1 30A/1P FUSED	(2)#12 & (1)#12 GND PROVIDE PATHWAY TO REMOTE THERMOSTAT
				VA						DISCONNECT	IN 3/4"C
F	3	120 V	1	1632	14 A	20 A	Motor	RS1	5	NEMA 1 30A/1P FUSED	(2)#12 & (1)#12 GND PROVIDE PATHWAY TO REMOTE THERMOSTAT
				VA						DISCONNECT	IN 3/4"C
WH	1	208 V	1	6000	36 A	40 A	Misc. Power	RS1	13,1	NEMA 1 60A/1P FUSED	(2)#8 & (1)#10 GND IN
				VA					5	DISCONNECT	3/4"C
	•	'	•				,	'	'	·	'

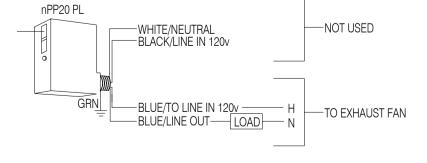


MANUAL ON / AUTOMATIC OFF (30 MINUTE TIME DELAY)

E_TYPICAL OFFICE LC E5.00 1/4" = 1'-0"



MANUAL ON / AUTOMATIC OFF (30 MINUTE TIME DELAY)



EXHAUST FAN ON / OFF BASED ON LIGHTING CONTROL SYSTEM TIME OF DAY SCHEDULE

2 EXHAUST FAN CONTROL DIAGRAM E5.00 1/4" = 1'-0"

RELAY

MODULE

MULTIZONE LIGHTING CONTROL

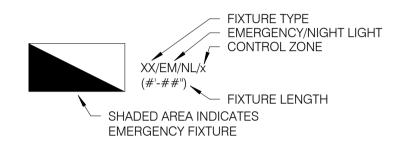
E5.00 1/4" = 1'-0"

LIGHTING FIXTURE SCHEDULE COLOR FINISH TYPE LOAD VOLTAGE NO. TYPE LUMENS TEMP CRI MANUFACTURER CATALOG NUMBER DESCRIPTION CBT24-75CS *ELL10 | 2X4' BACKLIT TROFFER WITH SWITCHABLE LUMENS. PROVIDE WITH EMERGENCY BATTERYWHITE |A4 | 65 VA | 120 V LED 5500 3500 K | 80 | CURRENT BACKUP WHERE 'EM' IS INDICATED ON PLANS. DUAL HEAD REMOTE EGRESS FIXTURE COMPASS LIGHTING CWRD 1 VA | 120 V EX 2 VA 120 V 0 K COMPASS LIGHTING CERRC THERMOPLASTIC EXIT SIGN WITH RED LETTERS AND CHEVRONS. NI-CAD BATTERY WITH WHITE REMOTE CAPACITY AND SELF TEST/DIAGNOSTIC BUTTON. COORDINATE QUANTITY OF FACES, CHEVRON ARROWS AND MOUNTING WITH DRAWINGS. 3500 K | 80 | CURRENT MPS 4 40 MW F W ED 4' LINEAR SUSPENDED STRIP WITH FLAT LENS AND MEDIUM DISTRIBUTION. PROVIDE WITH WHITE 42 VA 120 V LED | 3600 CHAIN MOUNTING KIT. PROVIDE WITH EMERGENCY BATTERY BACKUP WHERE 'EM' IS INDICATED ON PLANS.

LIGHTING FIXTURE SCHEDULE NOTES:

- LUMINAIRE INDICATED IN SCHEDULE IS BASIS OF DESIGN. CONTRACTOR MAY SUBMIT ALTERNATE, EQUIVALENT OR BETTER, FIXTURES FOR REVIEW BY OWNER, ARCHITECT AND ENGINEER. FOR ANY LUMINAIRES SUBMITTED OTHER THAN BASIS OF DESIGN LUMINAIRES, A POINT-BY-POINT PHOTOMETRIC PLAN SHALL BE PROVIDED FOR THE PROPOSED LUMINAIRE AS PART OF THE SHOP DRAWING SUBMITTAL. POINT-BY-POINT CALCULATIONS SHALL FOLLOW IESNA RECOMMENDED PRACTICES AND INCLUDE LIGHT LOSS FACTOR (LLF) USED FOR ALL LUMINAIRE TYPES, SURFACE REFLECTANCES, AVERAGE FOOTCANDLE LEVEL, MINIMUM FOOTCANDLE LEVEL(S), AND MAXIMUM-TO-MINIMUM RATIO FOR ALL AREAS WHERE ALTERNATE PROPOSED LUMINAIRE IS TO BE INSTALLED (ONE CALCULATION FOR TYPICAL AREAS IS ACCEPTABLE.
- ALL LUMINAIRES SHALL BE IN ACCORDANCE AND SHALL CONFORM TO THE CONTENTS OF THE LUMINAIRE SCHEDULE AND ALL PROVISIONS OF THE CONTRACT DOCUMENTS. THE ELECTRICAL CONTRACTOR SHALL VERIFY ALL CEILINGS TYPES, LUMINAIRE COLORS, LENGTHS, TRIMS, FINISHES, MOUNTING HARDWARE, CONFIGURATIONS AND HEIGHTS OF SUSPENDED LUMINAIRES, ETC. WITH ARCHITECT PRIOR TO ANY ROUGH-INS AND PLACING FINAL PURCHASE ORDERS.
- VERIFY FINAL LUMINAIRE LOCATIONS WITH OTHER CEILING MOUNTED EQUIPMENT SUCH AS DIFFUSERS, FIRE ALARM DEVICES, SPEAKERS, ETC. WITH ARCHITECTURAL RCP (REFLECTED CEILING PLANS).
- VERIFY EXACT HEIGHT AND LOCATIONS OF ALL WALL MOUNTED AND PENDANT/CABLE MOUNTED LUMINAIRES WITH ARCHITECTURAL ELEVATIONS PRIOR TO ANY ROUGH-IN. LUMINAIRES SHALL NOT BE SUPPORTED FROM SUSPENDED CEILING SUPPORTS UNLESS ADDITIONAL CEILING FRAMING AND SUPPORTS ARE ADDED BY THE CEILING CONTRACTOR ACCORDING TO
- MANUFACTURER'S RECOMMENDATIONS, U.L. LISTINGS, AND ANY APPLICABLE STATE OR LOCAL CODES.
- CONNECTIONS TO RECESSED LUMINAIRES SHALL BE MADE WITH MINIMUM 1/2" FLEXIBLE METAL CONDUIT (FMC) FROM FIXTURE TO OUTLET BOX. LENGTH OF FMC SHALL NOT EXCEED 6'. AT THE CONCLUSION OF THE WORK, EACH LUMINAIRE MUST BE CLEANED PER MANUFACTURER'S INSTRUCTIONS, EQUIPPED WITH THE PROPER TYPE, NUMBER OF LAMPS, INCLUDING KELVIN TEMPERATURE AND WATTAGE, AND ALL IN GOOD OPERATING CONDITION.
- FINAL COLOR SELECTION BY ARCHITECT/OWNER AT FIXTURE SUBMITTAL.
- 10. LENSED FIXTURES SHALL HAVE A MINIMUM OF 0.125" THICK ACRYLIC LENS UNLESS OTHERWISE NOTED.

LIGHTING FIXTURE LEGEND



	LIGHTING CONTROL PANEL - LCP1										
LCP	ZONE	RELAY #	DESCRIPTION	SWITCH	ON/OFF	PANEL	CKT	TYPE	DIMMING		
LCP	1	1	HALLWAY	OR	TC/TC	RS2	9	A4	0-10V		
LCP	1	2	BREAKROOM	b	OC/OC	RS2	9	A4	0-10V		
LCP	1	3	CLASSROOM A	а	OC/OC	RS2	1	A4	0-10V		
LCP	1	4	CLASSROOM B	С	OC/OC	RS2	1	A4	0-10V		
LCP	1	5	CLASSROOM A BACK	С	OC/OC	RS2	1	A4	0-10V		
LCP	1	7	MULTIPURPOS E SPACE		OC/OC	RS2	5	A4	0-10V		

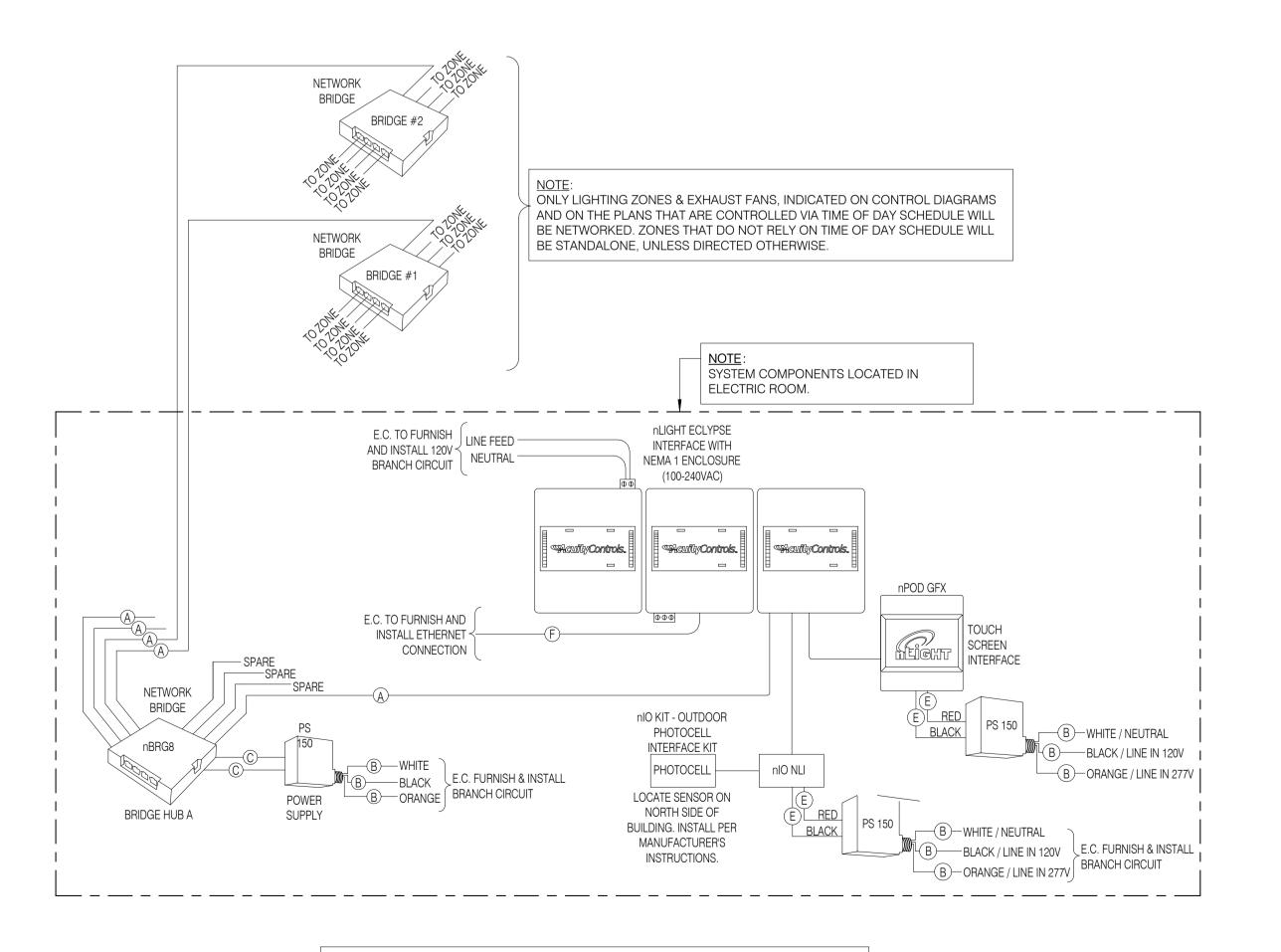


DIAGRAM SHOWS GENERAL INTENT ONLY. E.C. SHALL PROVIDE QUANTITY & TYPES OF DEVICES AND NETWORK BRIDGES AS REQUIRED TO ACCOMODATE FUNCTIONALITY & NUMBER OF ZONES SHOWN ON PLANS.

4 LIGHTING CONTROL NETWORK BACKBONE DIAGRAM (ACUITY BRANDS nLIGHT CONTROLS)

E5.00 1/4" = 1'-0"



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Electrical Details and Diagrams

Mains Type: MLO Mains Rating: 400 A Mounting: SURFACE Wires: 4 Enclosure: NEMA 1 Bus Rating: 400 A

Notes	СКТ	Circuit Description	Trip	Poles	Load Class		A		В	C		Load Class	Poles	Trip	Circuit Description	СКТ	Notes
	1	REC - TELE BOARD	20	1	R	0.4	0.4					R	1	20	REC - TELE BOARD	2	
	3	F-1	20	1	М			1.6	1.6			М	1	20	F-2	4	
	5	F-3	20	1	М					1.6	2.9	М	2	30	CU-1	6	
	7	CU-2	30	2	М	2.9	2.9									8	
	9							2.9	2.9			М	2	30	CU-3	10	
	11	GATE CONTROL	20	1	Χ					0.5	2.9					12	
	13	WH-1	40	2	X	3.0	0.5					X	1	20	GATE CONTROL	14	
	15							3.0	0.5			X	1	20	GATE CONTROL	16	
	17	SPARE	20	1						0.0	0.2	R	1	20	REC - EXTERIOR	18	
	19	SPARE	20	1		0.0	0.0						1	20	SPARE	20	
	21	SPARE	20	1				0.0	0.0				1	20	SPARE	22	
	23	SPARE	20	1						0.0	0.0		1	20	SPARE	24	
	25	SPARE	20	1		0.0	0.0						1	20	SPARE	26	
	27	SPARE	20	1				0.0	0.0				1	20	SPARE	28	
	29	SPARE	20	1						0.0	0.0		1	20	SPARE	30	
	31	SPARE	20	1		0.0	0.0						1	20	SPARE	32	
	33	SPARE	20	1				0.0	0.0				1	20	SPARE	34	
	35	SPARE	20	1						0.0	0.0		1	20	SPARE	36	
	37	SPARE	20	1		0.0	0.0						1	20	SPARE	38	
	39	SPARE	20	1				0.0	0.0				1	20	SPARE	40	
	41	SPARE	20	1						0.0	0.0		1	20	SPARE	42	
		·			VA:	21	543	20	582	200)84						

Amps: 180 172 167

100.00%

100.00%

100.00%

69.12%

NEC Demand Factor Estimated Demand

6164 VA

22396 VA

7500 VA

18075 VA

Panel Totals

Estimated Demand Load: 54135 VA

Connected Current: 173 A

Estimated Demand Current: 150 A

Connected Load: 62210 VA

Notes	СКТ	Circuit Description	Trip	Poles	Load Class	,	Д	E	3	C)	Load Class	Poles	Trip	Circuit Description	СКТ	Notes
9	1	LTG - 100,101	20	1	L	2.0	0.7					R	1	20	REC -110	2	
9	3	LTG - 102,103	20	1	M; L			0.4	0.7			R	1	20	REC - 107	4	
9	5	LTG - 104,105,106,107	20	1	L					1.8	0.7	R	1	20	REC - 110	6	
9	7	LTG - 108-112	20	1	M; L	0.7	1.1					R	1	20	REC - 107	8	
9	9	LTG - 113,114	20	1	L			1.5	0.9			R	1	20	REC - 106	10	
	11	REC - 106	20	1	R					0.9	0.5	R	1	20	REC - 105	12	
	13	REC - 105	20	1	R	0.9	1.1					R	1	20	REC - 114	14	
3	15	EWC - 114	20	1	R			0.1	0.4			R	1	20	REC - 102,103	16	
	17	REC - 104	20	1	R					0.9	1.1	R	1	20	REC - 104	18	
	19	REC - 113	20	1	R	0.5	1.2					R	1	20	REC - 114 MW	20	
	21	REC - 113	20	1	R			0.5	0.5			R	1	20	REC - 113	22	
	23	REC - 113 DS	20	1	R					1.2	1.8	R	1	20	REC - 113 DW	24	
	25	REC - 113 FG	20	1	R	0.8	0.8					R	1	20	REC - 113 FG	26	
	27	REC - 100	20	1	R			1.3	0.3			R	1	20	REC - 100 SB	28	
	29	REC - 100 SB	20	1	R					0.3	0.7	R	1	20	REC - 100 FB	30	
	31	REC - 100 FB	20	1	R	0.7	0.3					R	1	20	REC - 101 SB	32	
	33	REC - 101 FB	20	1	R			0.7	0.7			R	1	20	REC - 101 FB	34	
	35	REC - 10	20	1	R					1.3	0.7	R	1	20	REC - 112	36	
	37	REC - 111	20	1	R	0.7	0.0						1	20	SPARE	38	
	39	SPARE	20	1				0.0	0.0				1	20	SPARE	40	
	41	SPARE	20	1						0.0	0.0		1	20	SPARE	42	
					VA:		541		24	119							
					Amps:	1	01	6	7	10)4						

Estimated Demand

6164 VA

141 VA

17625 VA

NEC Demand Factor

100.00%

100.00%

69.80%

Volts: 120/208 Wye

Phases: 3

Wires: 4

· ·				
		PANFI	BOARD NOTE	-S
		1 / 11 1 -		

PANELBOARD DESIGNATION: RS2

Location: MEP 108

Mounting: SURFACE

Enclosure: NEMA 1

Supply From: RS1

_OA	D CLASS	IFICATION	ON AB	BREVIA	ATIONS:
A C EL H HVAC K L M R	APPLIANCE COOLING ELEVATOR HEATING HVAC KITCHEN LIGHTING MOTOR RECEPTACLE				

Connected Load

6164 VA

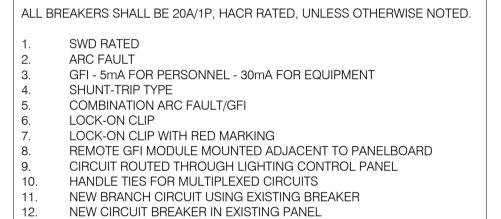
141 VA

25250 VA

Load Classification

Motor

Receptacle



A.I.C. Rating: 22K AIC; PER STUDY

Panel Totals

Estimated Demand Load: 23930 VA

Connected Current: 88 A

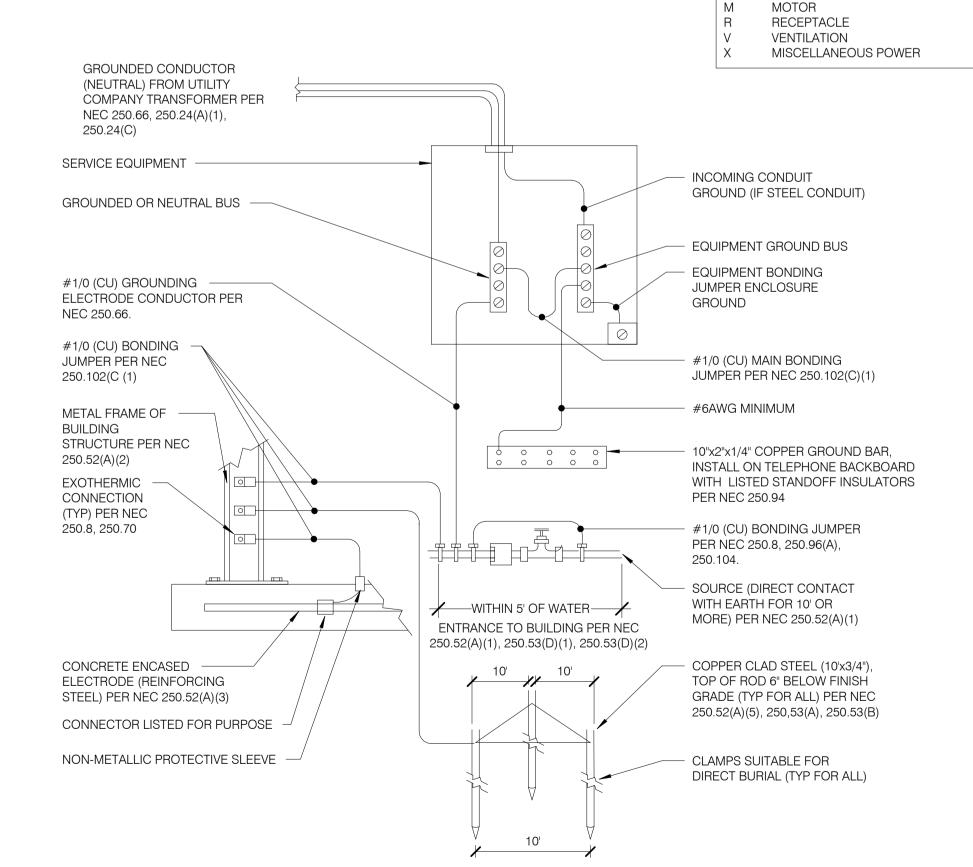
Estimated Demand Current: 66 A

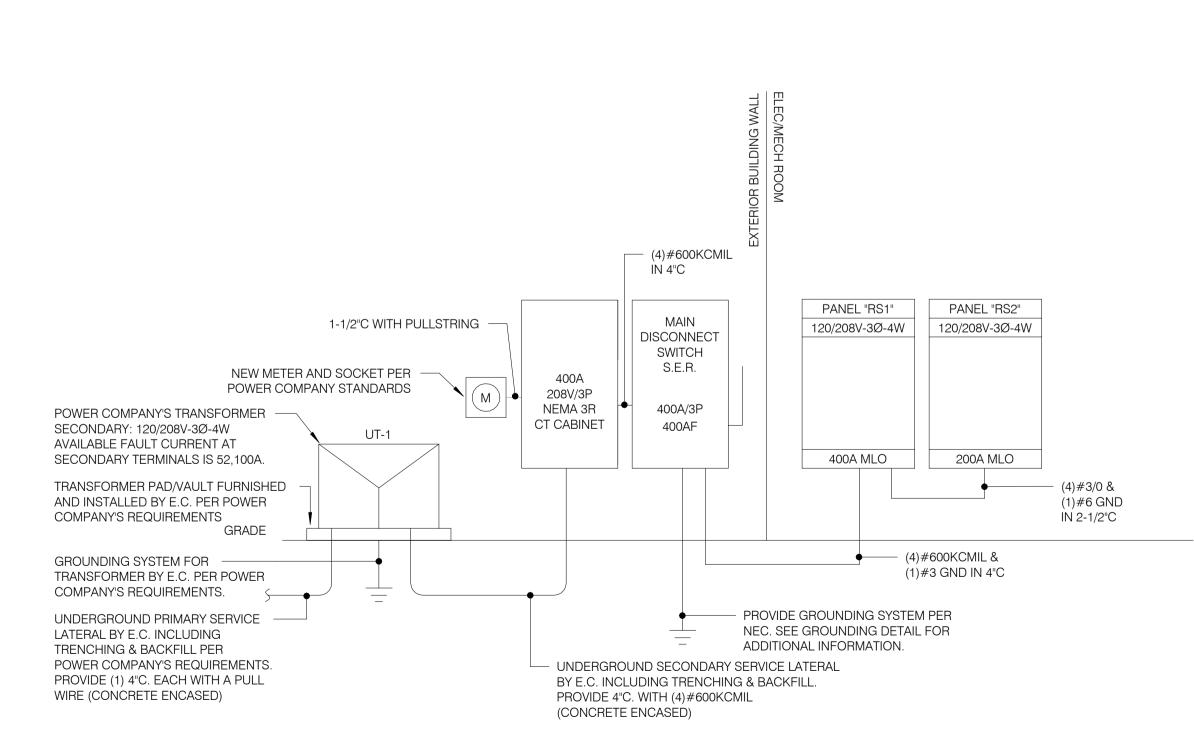
Connected Load: 31555 VA

Mains Type: MLO

Mains Rating: 200 A

Bus Rating: 200 A





Grounding & Bonding Detail

Load Classification

Misc. Power

Receptacle

Connected Load

6164 VA

22396 VA

7500 VA

26150 VA

∖ One-Line Diagram

FEEDER NOTES

- 1. ALL FEEDER AND BRANCH CIRCUIT CONDUCTORS INDICATED ON THE PLANS AND ONE-LINE DIAGRAM ARE BASED UPON THE USE OF COPPER CONDUCTORS, UNLESS NOTED OTHERWISE. "(AL)" - WITHIN THE FEEDER SIZE INDICATES ALUMINUM CONDUCTORS SPECIFIED.
- IF APPROVED FOR USE BY THE OWNER, THE CONTRACTOR MAY FURNISH AND INSTALL ALUMINUM CONDUCTORS FOR THE FOLLOWING:
 - SECONDARY ELECTRIC SERVICE LATERALS
- FEEDERS RATED 100A AND LARGER. ALL FEEDERS AND BRANCH CIRCUIT CONDUTORS SHALL BE COPPER,
- UNLESS OTHERWISE INDICATED. ALUMINUM CONDUCTORS ARE PROHIBITED FROM BEING USED TO SERVE ANY EQUIPMENT THAT SPECIFICALLY CALLS FOR THE USE OF
- COPPER CONDUCTORS OR PROHIBITS THE USE OF ALUMINUM CONDUCTORS WITHIN THE EQUIPMENTS' RESPECTIVE WRITTEN INSTALLATION INSTRUCTIONS.
- ALUMINUM FEEDER SIZES, INDICATED ON PLANS AND ONE-LINE DIAGRAM, ARE BASED ON STABILOY TYPE XHHW-2 COMPACT STRANDED ALUMINUM CONDUCTORS (AA-8000 SERIES ALUMINUM
- ALL LUG TERMINATIONS ASSOCIATED WITH ALUMINUM CONDUCTORS SHALL BE "HI-PRESS" COMPRESSION TYPE AS MANUFACTURED PER THE ELECTRICAL DISTRIBUTION EQUIPMENT MANUFACTURER'S WRITTEN INSTRUCTIONS FOR THE INSTALLATION OF COMPRESSION CONNECTIONS.
- ELECTRICAL DISTRIBUTION EQUIPMENT AND OVERCURRENT DEVICES (NEW OR EXISTING) SHALL BE MANUFACTURED (NEW) OR MODIFIED IN FIELD (EXISTING) USING AN APPROVED MANUFACTURER'S KIT TO ACCEPT THE APPROPRIATELY RATED, QUANTITY, TYPE AND SIZE OF COMPRESSION LUGS FOR THE INSTALLATION OF THE ALUMINUM CONDUCTORS BEING FURNISHED AND INSTALLED.
- WHERE RECOMMENDED BY WIRE AND/OR TERMINATION MANUFACTURERS, FURNISH AND INSTALL OXIDE INHIBITOR AT TERMINATIONS.
- THE GROUNDING ELECTRODE SYSTEM SHALL UTILIZE COPPER CONDUCTORS.
- IF ALUMINUM CONDUCTORS ARE UTILIZED, BASED ON THE ABOVE CRITERIA, THE ALUMINUM CONDUCTOR SIZES BEING FURNISHED SHALL BE INCREASED TO MEET OR EXCEED THE RATINGS OF THE SPECIFIED COPPER FEEDER CHARACTERISTICS, SUCH AS AMPERAGE AND VOLTAGE DROP. THE CONDUIT, ASSOCIATED WITH EACH OF THE FURNISHED ALUMINUM FEEDERS, SHALL ALSO BE INCREASED IN SIZE TO COMPLY WITH CODE FOR THE QUANTITY AND SIZE OF ALUMINUM CONDUCTORS BEING UTILIZED. THE SHORT CIRCUIT RATINGS OF THE ELECTRICAL DISTRIBUTION EQUIPMENT SHALL BE INCREASED, AS REQUIRED, TO ACCOMMODATE THE HIGHER AVAILABLE SHORT CIRCUIT RATING AT THE RESPECTIVE EQUIPMENT'S TERMINALS DUE TO ALUMINUM CONDUCTORS BEING UTILIZED.

ONE-LINE DIAGRAM NOTES

- THE ELECTRICAL CONTRACTOR SHALL VERIFY ALL POWER COMPANY REQUIREMENTS PRIOR TO BIDDING & INCLUDE THE COST OF ALL ASSOCIATED LABOR, MATERIALS, & CHARGES IN THEIR BID.
- THE ELECTRICAL CONTRACTOR SHALL VERIFY THE AVAILABLE FAULT CURRENT WITH THE UTILITY COMPANY PRIOR TO BIDDING AND PROVIDE EQUIPMENT RATED ACCORDINGLY. SUBMIT FAULT
- CONDUCTORS SHALL BE COPPER, UNLESS NOTED OTHERWISE

CURRENT CALCULATIONS WITH SHOP DRAWING SUBMITTAL.

- ALL BUSSING SHALL BE COPPER.
- GROUNDING ELECTRODE SYSTEM CONDUCTORS SHALL BE
- PROVIDE FULL LENGTH VERTICAL BUSSING IN ALL SWITCHBOARDS, DISTRIBUTION PANELS & PANELBOARDS.
- PROVIDE FULL SIZE HORIZONTAL BUSSING IN ALL SWITCHBOARDS.
- ALL CIRCUIT BREAKERS SHALL BE BOLT-ON TYPE. ALL WALL-MOUNTED EQUIPMENT SHALL BE MOUNTED ON 3/4" FIRE RATED BACKBOARD.
- ALL FLOOR-MOUNTED EQUIPMENT SHALL BE MOUNTED ON 4" HIGH CONCRETE HOUSEKEEPING PAD.
- 10. DRY TYPE TRANSFORMERS SHALL BE GROUNDED TO THE BUILDING GROUNDING ELECTRODE SYSTEM PER NEC.
- 11. EXTERIOR MOUNTED ELECTRICAL EQUIPMENT SHALL BE NEMA 3R RATED AND BE FURNISHED WITH HEATERS, THERMOSTAT AND DISCONNECTING MEANS INTEGRAL TO EQUIPMENT.
- PROVIDE NAMEPLATES INDICATING EQUIPMENT DESIGNATION AND DESIGNATION OF SOURCE SUPPLYING THE DISCONNECTING MEANS FOR ALL SWITCHBOARDS, DISTRIBUTION PANELS, PANELBOARDS, ENCLOSURES AND ELECTRICAL CABINETS, ACCESS DOORS/PANELS FOR CONCEALED ELECTRICAL EQUIPMENT, ENCLOSED SWITCHES/CIRCUIT BREAKERS/CONTROLLERS, POWER-TRANSFER DEVICES, PUSH-BUTTONS, CONTACTORS, LIGHTING CONTROL SYSTEMS, INVERTERS, GENERATORS, UPS, MONITORING EQUIPMENT, STARTERS, DISCONNECT SWITCHES, METER SOCKETS, RELAYS, TRANSFORMERS, AND JUNCTION BOXES GREATER THAN 4 11/16" SQUARE. PROVIDE NAMEPLATES ON BRANCH SWITCHES/BREAKERS OF SWITCHBOARDS AND DISTRIBUTION PANELS. NAMEPLATES SHALL BE ENGRAVED LAMACOID, 5/32" LETTERS CENTERED AT TOP OF PANEL AND SECURED WITH ADHESIVE TYPE FASTENERS. NORMAL POWER SHALL BE LABELED WITH WHITE BACKGROUND. BLACK LETTERS: EMERGENCY POWER AND MAIN SERVICE NAMEPLATE DISCONNECTS WITH RED BACKGROUND, WHITE LETTERING.
- COORDINATE SPACE WITH ALL OTHER TRADES TO MAINTAIN ALL CODE-REQUIRED CLEARANCES.
- REFER TO ELECTRICAL SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
- THE ELECTRICAL CONTRACTOR SHALL PROVIDE FINAL SETTINGS REQUIRED FOR ALL ADJUSTABLE/ELECTRONIC TYPE CIRCUIT BREAKERS WITH LONGTIME, SHORT TIME, GF, INSTANTANEOUS ETC. THE ELECTRICAL CONTRACTOR SHALL PROVIDE FINAL COORDINATION STUDY.
- PROPER CLEARANCE MUST BE MAINTAINED ABOUT ELECTRICAL EQUIPMENT PER NEC. FIELD VERIFY EXACT MOUNTING SPACE AVAILABLE IN ELECTRICAL ROOM / AREA PRIOR TO INSTALLATION OF ELECTRICAL EQUIPMENT.
- 17. ELECTRICAL CONTRACTOR SHALL BALANCE PANELS AND ELECTRICAL EQUIPMENT TO $\pm 10\%$ BETWEEN PHASES; A/B, B/C, A/C
- REGARDLESS OF CIRCUITING INDICATED. 18. HVAC CIRCUIT BREAKERS TO BE "HACR" TYPE WHERE REQUIRED BY
- 19. FEEDER ROUTING IS DIAGRAMMATIC ONLY. ACTUAL ROUTING OF FEEDERS (OVERHEAD OR UNDERGROUND) IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.

EQUIPMENT NAMEPLATE PER NEC.

- 20. PROVIDE ARC ENERGY REDUCTION AS APPLICABLE: WHERE BREAKERS ARE UTILIZED WITHIN ELECTRICAL DISTRIBUTION EQUIPMENT, THE ELECTRICAL CONTRACTOR SHALL PROVIDE BREAKERS EQUIPPED WITH ADJUSTABLE INSTANTANEOUS TRIP SETTING TO COMPLY WITH NEC 240.87 ARC ENERGY REDUCTION. THE ADJUSTABLE INSTANTANEOUS TRIP SETTING OPTION SHALL BE PROVIDED WHERE THE HIGHEST CONTINUOUS TRIP SETTING FOR
 - CIRCUIT BREAKER IS RATED OR CAN BE ADJUSTED IS 1200A OR HIGHER. WHERE FUSES ARE UTILIZED WITHIN ELECTRICAL DISTRIBUTION EQUIPMENT. THE ELECTRICAL CONTRACTOR SHALL PROVIDE FUSES EQUIPPED WITH CLEARING TIME OF 0.7 SECONDS OR LESS AT AVAILABLE ARCING CURRENT TO COMPLY WITH NEC 240.67 ARC ENERGY REDUCTION. THIS SHALL BE PROVIDED WHERE THE FUSE IS RATED AT 1200A

WHICH THE ACTUAL OVERCURRENT DEVICE INSTALLED IN A

- OR HIGHER. PROVIDE PERFORMANCE TESTING PER NEC FOR ARC ENERGY REDUCTION SYSTEM. ENGAGE A FACTORY AUTHORIZED SERVICE REPRESENTATIVE TO PERFORM TESTING AND PROVIDE REQUIRED DOCUMENTATION. PROVIDE COPY OF TESTING AND DOCUMENTATION TO EOR
- AND LOCAL AHJ. THE ELECTRICAL CONTRACTOR SHALL COMPLY WITH NEC ARTICLE 110.16 FOR LABELING OF PANELS FOR ARC FLASH HAZARD WARNING AS WELL AS FOLLOWING REQUIRED SAFETY PRECAUTIONS WHEN SERVICING OR MAINTAINING ELECTRICAL EQUIPMENT.
 - PROVIDE SURGE-PROTECTIVE DEVICE (SPD) FOR ALL DWELLING UNIT SERVICES. INSTALLATION SHALL COMPLY WITH NEC 230.67.



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City of Elyria

131 Court St - Suite 101 Elyria, Ohio 44035

Project:

Public Safety Training Facility Range Building

Garden Street Elyria, Ohio 44035

Revisions:

09.26.2024 For Construction

5039 01 23 Project Number: ACG Drawn by: ACG Checked by: 2024 Copyright:

Electrical One-Line Diagram & Panel Schedules