

		//ATIONIO			
ABBREVIATIONS					
A AB AFF ALUM AV	AMPERE ANCHOR BOLT ABOVE FINISH FLOOR ALUMINUM AUDIO VISUAL	MO MASY MAX MECH MEP	MASONRY OPENING MASONRY MAXIMUM MECHANICAL MECHANICAL, ELECRTICAL, & PLUMBING		
B/ B/DECK BD BLDG BOTT	BOTTOM OF BOTTOM OF DECK BOARD BUILDING BOTTOM BEAM	MFR MIN MO MTL	MANUFACTURER MINIMUM MASONRY OPENING METAL		
		NFPA	NOT IN CONTRACT NATIONAL FIRE PROTECTION ASSOCIATION		
CAB CFM CLG CLR CMU COL CONC CONT CPT	CABINE I CUBIC FEET PER MINUTE CEILING CLEAR CONCRETE MASONRY UNIT COLUMN CONCRETE CONTINUOUS CARPET	O/ OC OZ OA OBC OCC OPP	OVER/OVER ON CENTER OUNCE OUTSIDE AIR OHIO BUILDING CODE OCCUPANT(S) OPPOSITE		
DS DEMO DIA DN DR DWG	DOWNSPOUT DEMOLITION/DEMOLISH DIAMETER DOWN DOOR DRAWING	PT PERIM PERF PLAM PLYWD PR PSF	PRESSURE TREATED PERIMETER PERFORATED PLASTIC LAMINATE PLYWOOD PAIR POUNDS PER SQUARE		
ETR EA ELEV	EXISTING TO REMAIN EACH ELEVATION	PTD PVC	PAINTED POLYVINYL CHLORIDE		
EMT EQ EXIST EXT	ELECTRICAL METALLIC TUBING EQUAL EXISTING EXTERIOR	(R) RO RAG RD REF	RELOCATE ROUGH OPENING RETURN AIR GRILLE ROAD REFERENCE		
FD FE FFE FRP	FLOOR DRAIN FIRE EXTINGUISHER FINISH FLOOR ELEVATION FIBERGLASS REINFORCED	REQ'D RH RM RTU	REQUIRED/REQUIREMENTS RIGHT HAND ROOM ROOF TOP UNIT		
FRT FT FTG FWY	FIRE RETARDANT TREATED FEET/FOOT FOOTING FREEWAY	SS SAG SAN SCHED SF	STAINLESS STEEL SUPPLY AIR GRILLE SANITARY SCHEDULE SQUARE FOOT/SQUARE		
GA GAL GALV GFCI	GAUGE GALLON GALVANIZED GROUND-FAULT CIRCUIT	SIM SS STL STRUCT	SIMILAR STAINLESS STEEL STEEL STRUCTURE/ STRUCTURAL		
GWB GYP	INTERRUPTER GYPSUM WALL BOARD GYPSUM	T/ TYP	TOP OF TYPICAL		
H HDPE	HIGH HIGH DENSITY POLYETHYLENE	UL UNO	UNDERWRITERS LABORATORIES UNLESS NOTED OTHERWISE		
HM HORIZ HR HSS	HOLLOW METAL HORIZONTAL HOUR HOLLOW STEEL SECTION	V VB VIF	VOLT VAPOR BARRIER VERIFY IN FIELD		
ICC	INTERNATIONAL CODE	VERI VTR	VENT THROUGH ROOF		
IECC INSUL	INTERNATIONAL ENERGY CONSERVATION CODE INSULATION	W W/ WD	WIDE WITH WOOD		
LAV LG LH	LAVATORY LONG/LENGTH LEFT HAND	WWF @ ଜୁ Ø	WELDED WIRE FABRIC AT CENTERLINE DIAMETER		



CIVIL

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

STRUCTURAL

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

PROJECT DESCRIPTION

FOR

Public Safety Training Facility Multi-Purpose Training Area

City of Elyria AT

Garden Street Elyria, Ohio 44035 For Construction



MEP

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

Triumph

ARCHITECT

Sixmo Architecture 1101 Auburn Avenue Cleveland, Ohio 44113 Graham Post gpost@sixmoarchitecture.com 216-767-5400 (ext. 113)

STREET ADDRESS CITY, STATE ZIP CONTACT NAME EMAIL PHONE NUMBER

PROJECT DESCRIPTION

The Scope of Work proposed as a part of this submittal includes a 2-story pre-engineered metal building for training/simulation with simulated ammunition.

BID ALTERNATE

GC TO PROVIDE BID ALTERNATE OPTIONS FOR 144' OF RAMP FROM LEVEL 1 TO LEVEL 2 OPTION A -Internal Wood Ramp - 144' length of 1:12 slope with handrails and level landings every 30'-0" of run. OPTION B -External Metal Ramp - 144' length of 1:12 slope with handrails and level landings every 30'-0" of run. around perimeter of building

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 2.
- construction work. Dimensions are to finished surfaces (not rough framing) except where noted
- otherwise.
- 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 activities.
- 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 9. 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 10. hydraulic calculations to the authority having jurisdiction. The local fire official shall have the opportunity to review the construction documents.

HEET NUMBER	SHEET NAME	SHEET ISSUE DATE	CURRENT
T1.00	Title Sheet	11.07.2024	A
G1.00	Code Compliance and Energy Compliance	11.07.2024	A
G1.01	Life Safety Plan	11.07.2024	A
G2.00	Phase One Site Plan	11.07.2024	A
A1.00	First Floor Plan	11.07.2024	A
A1.10	Second Floor Plan	11.07.2024	A
A1.20	Reflected Ceiling Plans	11.07.2024	A
A2.00	Roof Plan	11.07.2024	A
A3.00	Exterior Elevations	11.07.2024	A
A3.10	Exterior Elevations Continued	11.07.2024	A
A4.00	Building Sections	11.07.2024	A
A5.00	Wall Sections	11.07.2024	A
A7.01	Details	11.07.2024	A
A7.02	Details	11.07.2024	Α
A7.03	Details	11.07.2024	A
S0.00	General Notes	09.26.2024	
S0.10	Diagrams & Schedules	09.26.2024	
S1 00	Foundation Plan	11 07 2024	Α
S2 00	Foundation Details & Sections	09 26 2024	
S5.00	Typical Masonry Details	09 26 2024	
\sim	Plumbing Symbols Notes &	11 07 2024	Α
P0.00	Abbreviations	11.07.2021	
P1.01	Multi-Purpose Training Area First Floor Plumbing Plan	11.07.2024	A
P1.02	Multi-Purpose Training Area Second Floor Plumbing Plan	11.07.2024	A
P2.00	Plumbing Details and Diagrams	11.07.2024	A
P3.00	Plumbing Schedules	11.07.2024	A
M0.00	Mechanical Symbols, Notes & Abbreviations	11.07.2024	A
M1.01	Multi-Purpose Training Area First Floor Mechanical Plan	11.07.2024	A
M1.02	Multi-Purpose Training Area Second Floor Mechanical Plan	11.07.2024	A
M2.00	Mechanical Details and Diagrams	11.07.2024	A
M3.00	Mechanical Schedules	11.07.2024	A
E0.00	Electrical Symbols, Notes & Abbreviations	09.26.2024	
E1.01	Multi-Purpose Training Area First Floor Lighting Plan	11.07.2024	A
E1.02	Multi-Purpose Training Area Second Floor Lighting Plan	11.07.2024	A
E2.01	Multi-Purpose Training Area First Floor Power Plan	11.07.2024	A
E2.02	Multi-Purpose Training Area Second Floor Power Plan	09.26.2024	
E5.00	Electrical Details and Diagrams	11.07.2024	A
E6.00	Electrical One-Line Diagram & Panel Schedules	11.07.2024	A



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07 NOV 2024 Graham Lochridge Post, License #2419437 Expiration Date 12/31/2025

City of Elyria

131 Court St - Suite 101

Elyria, Ohio 44035

Project:

Public Safety **Training Facility** Multi-Purpose **Training Area**

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: Checked by: Copyright:

HLM GLP 2024

CONSTRUCTION MANAGER

COMPANY NAME (TO BE DETERMINED)

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

CLIENT

Title Sheet



2023 11/7/2024 3:11:53 PM C:\Users\HMyers\OneDrive - Sixmo Inc\Documents\50390123_Safety Facility Simunitions Training Building_v2023_Central_hschuldGNHK6.rvt

CODE COMPLIANCE

Applicable Codes: 2024 (2024 (2024 (2023 N 2017 I ASHR,	Ohio Building Code (OBC) Ohio Plumbing Code (OPC) Ohio Mechanical Code (OMC) National Electric Code (NEC) CC A.117.1 (ADA) AE 90.1-2019		Interior Finishes – OBC Chapter 8 Interior Wall and Ceiling Finish Requirements: Interior exit stairs, ramps, and passageways: Class A Corridors: Class B Rooms and Enclosed Spaces: Class C
General Building Information:			Fire Protection Systems – OBC Chapter 9
Ruilding Aroa: 10.000 G	SE		Building is not fully sprinklered.
Occupant Load.			Building is not equipped with a fire alarm system per OBC 907.2.2.
Use and Occupancy Classificat	tion – OBC Chapter 3		Magna of Egraphic ORC Chapter 10
B - Business			
			Occupant Load = 62
General Building Heights and A Allowable Area: Allowable Height: Actual Area: Actual Height: Frontage Increase Factor 9,000 sf x 0.5 Total allowable area Types of Construction – OBC C Construction Type: 5B Table 601: Fire Resistar Primary Structu Exterior Bearing Interior Non-Be Floor Construct Roof Construct Table 705.5: Exterior Wa X < 5' $5' \le X$ $10' \le$ $X \ge 30$	Areas – OBC Chapter 5 9,000 sf (OBC Allowable Area - 2 stories (OBC Allowable Height 40 feet (OBC Allowable Height - 10,000 square feet 2 Stories / 40 feet or OBC Table 506.3.3 = 4,500 sf = 13,500 sf Chapter 6 hce Rating Requirements for Building aring Walls 9 Wall	OBC Table 506.2) - OBC Table 504.4) - OBC Table 504.3) ng Elements 0 Hours 0 Hours	 Table 1006.2.1: Maximum Common Path of Egress Travel Distance shall be 75 feet spaces with one exit or exit access doorway. Maximum Occupant Load shall be 49 for spaces with one exit or ex doorway. Table 1017.2: Exit Access Travel Distance = 200 feet (without sprinkler syste 1020.4 Dead end corridors shall not exceed 20 feet. Accessibility - OBC Chapter 11 1109.2 Each toilet room shall be accessible. At least one of each fixture, ele control, or dispenser in each accessible toilet room and bathing room shall accessible. Where there is one urinal provided in a toilet room, the urinal is required to be accessible. 1109.2.2 At least 5% of the total number of compartments shall be wheelcha accessible. 1109.2.3 At least 5%, but not less than one, lavatory shall be accessible. 1109.3 Where sinks are provided, at least 5% but not less than one provided accessible spaces shall be accessible. ANSI117.1-2009 606.2 Exception 1: A parallel approach shall be pekitchen sink in a space where a cook top or conventional range is n provided. 1109.4 Where kitchens and kitchenettes are provided in accessible spaces of they shall be accessible.

Project Information						
Energy Code: Project Title: Location: Climate Zone: Project Type: Vertical Glazing / Wall Area: Performance Sim. Specs:	90.1 (2019) Standard Simunitions Building Elyria, Ohio 5a New Construction 0% EnergyPlus 8.1.0.009 Hopkins.Intl.AP.72524	(EPW: USA_O 0_TMY3.epw)	H_Clevela	ind-		
Construction Site: Elyria, Ohio 44035	Owner/Agent: City of Elyria 131 Court Street, Su Elyria, Ohio 44035	uite 101	Desi Six 110 Cle	gner/Contra mo Architec 01 Auburn A veland, Ohi	ictor: ture venue o 44113	
Building Area		Floor /	Area			
1-Office : Nonresidential		5	000			
Assemb	ly	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	Proposed U-Factor	Budget U- Factor _(a)
Roof: Metal Building, Standing Sea Thermal Blocks (c), [Bldg. Use 1 - (Floor: Unheated Slab-On-Grade, Ho [Bldg. Use 1 - Office] (b)	m, Liner System with Dffice] prizontal with vertical 2 ft.,	5000 295	49.0	0.0 10.0	0.026 0.700	0.037 0.520
NORTH Ext. Wall: Metal Building Wall, Sing cavity, thermal block at girt), [Bldg Window: Metal Frame: Fixed, Perf. Double Pane with Low-E, Clear , SH 1 - Office]	le Layer Mineral Fiber (in J. Use 1 - Office] Type: Energy code default, IGC 0.68, VT 0.66, [Bldg. Use	2120 32	30.0	0.0	0.052 0.900	0.050 0.360
EAST Ext. Wall: Metal Building Wall, Sing cavity, thermal block at girt), [Bldg Door: Insulated Metal, Swinging, [E	le Layer Mineral Fiber (in J. Use 1 - Office] Bldg. Use 1 - Office]	1180 21	30.0	0.0	0.052	0.050
<u>SOUTH</u> Ext. Wall: Metal Building Wall, Sing cavity, thermal block at girt), [Bldg Door: Insulated Metal, Swinging, [F	le Layer Mineral Fiber (in J. Use 1 - Office]	21 2120 21	30.0	0.0	0.052	0.050
WEST Ext. Wall: Metal Building Wall, Sing cavity, thermal block at girt), [Bldg	le Layer Mineral Fiber (in J. Use 1 - Office]	1180	30.0	0.0	0.052	0.050
(a) Budget U-factors are used fo (b) Slab-On-Grade proposed and	ig, [Bidg. Use Ι - Οπice] r software baseline calculation: budget U-factors shown in tab	64 s ONLY, and an le are F-factors	e not code s.	 requiremen	0.390 ts.	0.310

2. be 75 feet in e exit or exit access inkler system) fixture, element,	Plumbing Fixtures - OBC Chapter 29 Table 2902.1 The Minimum number of required plumbing fixtures are as follows: <u>Occupant</u> <u>Water Closets</u> <u>Lavatories</u> <u>Drinking</u> <u>Service</u> <u>Sink</u> B 62 1 per 25 for first 50. 1 per 40 for first 80. 1 per 100 1 Water Closets Lavatories 0 firce: 31 @ per 25 2 Office: 31 @ per 40 = Mater Closets Lavatories 0 firce: 31 @ per 25 2 Office: 31 @ per 40 = Drinking Fountains Office: 31 @ per 25 = 2 Office: 31 @ per 40 = Office: 31 @ per 25 = 2 Office: 31 @ per 40 = = Mater Closets Lavatories Office: 31 @ per 40 = = Office: 31 @ per 25 = 2 Office: 31 @ per 40 = = Mater Closets Lavatories Office: 31 @ per 40 = = Office: 31 @ per 25 = 2 Unisex** > Unisex** > Office: 31 @ per 20 = 1	Cleveland Zanesville Marietta 1101 Auburn Avenue Cleveland, Ohio 44113 p. 216-767-5400 sixmoarchitecture.com
(c) Thermal spacer bloc purlins. (c) Thermal spacer bloc purlins.	ck with minimum R-3.5 must be installed above the purlin/batt, and the roof deck secured to the gn 0.2% better than code the proposed envelope design represented in this document is consistent with the building plans. Calculations submitted with this permit applicable isclusions submitted with this permit application. The proposed envelope systems have been (2019) Standard requirements in COMcheck Version COMcheckWeb and to comply with any applicable (2019) Standard requirements in COMcheck Version COMcheckWeb and to comply with any applicable (2019) Standard requirements in COMcheck Version COMcheckWeb and to comply with any applicable (2019) Standard requirements in COMcheck Version COMcheckWeb and to comply with any applicable (2019) Standard requirements in COMcheck Version COMcheckWeb and to comply with any applicable (2019) Standard requirements in COMcheck Version COMcheckWeb and to comply with any applicable (2019) Standard requirements in COMcheck Version COMcheckWeb and to comply with any applicable (2019) Standard requirements in COMcheck Version COMcheckWeb and to comply with any applicable (2019) Standard requirements in COMcheck Version COMcheckWeb and to comply with any applicable (2010) Standard requirements in COMcheck Version COMcheckWeb and to comply with any applicable (2010) Standard requirements in COMcheck Version COMcheckWeb and to comply with any applicable (2010) Standard requirements in COMcheck Version COMcheckWeb and to comply with any applicable (2010) Standard requirements in COMcheck Version COMcheckWeb and to comply with any applicable (2010) Standard requirements in COMcheck Version COMcheckWeb and to comply with any applicable (2010) Standard requirements in COMcheck Version COMcheckWeb and to comply with any applicable (2010) Standard requirements in COMcheck Version COMcheckWeb and to comply with any applicable (2010) Standard requirements in COMcheck Version COMcheckWeb and to comply with any applicable (2010) Standard requirements in COMcheck Version COMcheckWeb and to c	Client: City of Elyria 131 Court St - Suite 101 Elyria, Ohio 44035 Project: Public Safety Training Facility Multi-Purpose Training Area Garden Street Elyria, Ohio 44035
		Revisions: A 11.07.2024 ADDENDUMA 09.26.2024 For Construction Project Number: 5039 01 23 Drawn by: HLM Checked by: GLP Copyright: 2024
Project Title: Simunition Data filename:	ns Building Report date: 06/07/24 Page 2 of 9	Code Compliance and Energy Compliance











A3.00

G1.01 1/8" = 1'-0"



EGRESS LEGEND

FEC-1

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)



200'

INDICATES 2-HOUR FIRE-RATED BARRIER

INDICATES MAXIMUM TRAVEL DISTANCE W/ _ _ DISTANCE INDICATED



1101 Auburn Avenue Cleveland, Ohio 44113 p. 216-767-5400 sixmoarchitecture.com GRAHAM POST 2419437 ¹¹¹¹⁰07 NOV 2024 Graham Lochridge Post, License #2419437 Expiration Date 12/31/2025 Client: City of Elyria 131 Court St - Suite 101 Elyria, Ohio 44035 Project: Public Safety Training Facility Multi-Purpose Training Area Garden Street Elyria, Ohio 44035 Revisions: A 11.07.2024 ADDENDUM A 09.26.2024 For Construction Project Number: 5039 01 23 HLM GLP Drawn by: Checked by: 2024 Copyright:











FLOOR PLAN GENERAL NOTES

- 1. FINISHED FLOOR ELEVATION OF 0'-0".
- EXTERIOR WALL DIMENSIONS ARE TO FACE OF SHEATHING.
- INTERIOR WALL DIMENSIONS ARE TO FINISHED FACE, EXCEPT 3 WHERE NOTED OTHERWISE.
- REFER TO ENLARGED PLANS FOR ADDITIONAL NOTES, DETAILS, 4. AND DIMENSIONS.
- REFER TO EXTERIOR ELEVATONS FOR ADDITIONAL NOTES, 5. DETAILS, AND DIMENSIONS.
- 6. 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.



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ient:		

City of Elyria

131 Court St - Suite 101 Elyria, Ohio 44035

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Public Safety **Training Facility** Multi-Purpose Training Area

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Project Number: 5039 01 23 HLM GLP 2024

First Floor Plan





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





A2 KEY PLAN A1.10 N.T.S.

FLOOR PLAN GENERAL NOTES

- 1. FINISHED FLOOR ELEVATION OF 0'-0".
- EXTERIOR WALL DIMENSIONS ARE TO FACE OF SHEATHING. 2.
- INTERIOR WALL DIMENSIONS ARE TO FINISHED FACE, EXCEPT З. WHERE NOTED OTHERWISE.
- REFER TO ENLARGED PLANS FOR ADDITIONAL NOTES, DETAILS, AND DIMENSIONS. 4.
- REFER TO EXTERIOR ELEVATONS FOR ADDITIONAL NOTES, 5. DETAILS, AND DIMENSIONS.
- FIELD VERIFICATION OF ALL EXISTING CONDITIONS AND 6. 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.

 \searrow

A3.00



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Client: City of Elyria

131 Court St - Suite 101

Elyria, Ohio 44035

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Public Safety Training Facility Multi-Purpose Training Area

Garden Street Elyria, Ohio 44035

Revisions:

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Second Floor Plan















Garden Street Elyria, Ohio 44035

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Reflected Ceiling Plans







A1 ROOF PLAN A2.00 3/16" = 1'-0"

A3.10 C1/

ROOF PLAN GENERAL NOTES

- 1. 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.
- ATTICS SHALL BE VENTILATED WITH INTAKE VENTS AT OR NEAR THE 4. 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

 \wedge

(MTL-2) METAL ROOF O/ METAL ROOF STRUCTURE PER PEMB MANUFACTURER. PROVIDE ICE AND WATER GUARD FROM FASCIA TO 2'-0" FROM INSIDE FACE OF WALL.



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City	of	Elyria

131 Court St - Suite 101 Elyria, Ohio 44035

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Public Safety **Training Facility** Multi-Purpose Training Area

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Roof Plan









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131 Court St - Suite 101 Elyria, Ohio 44035

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Exterior Elevations







Exterior Elevations Continued









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	GEIXMO A R C H I T E C T U R E
	1101 Auburn Avenue Cleveland, Ohio 44113 p. 216-767-5400 sixmoarchitecture.com
	GRAHAM POST 2419437 CRED ARCHING OT NOV 2024 Graham Lochridge Post, License #2419437 Expiration Date 12/31/2025
	Client: City of Elyria
	131 Court St - Suite 101 Elyria, Ohio 44035
R-49 MIN INSULATION	 Project: Public Safety Training Facility Multi-Purpose Training Area
ROOF BEARING 22' - 0"	Garden Street Elyria, Ohio 44035
R-30 MIN INSULATION 4" CONCRETE FLOOR OVER METAL STRUCTURE BY PEMB MANUFACTURER LEVEL 2	
$\begin{array}{c} 12^{4} - 0^{4} \\ \hline \\ A2 \\ \hline \\ A5.00 \end{array}$	
SLAB ON GRADE, SEE STRUCTURAL LEVEL 1	 Revisions:
	A11.07.2024ADDENDUM A09.26.2024For ConstructionProject Number:5039 01 23Drawn by:HLMChecked by:GLPCopyright:2024
	Building Sections
	A4.00



DOOR

WIDTH

3' - 0"

3' - 0"

8' - 0"

3' - 0"

3' - 0"

3' - 0"

METAL DOOR

A7.02

A3 STAIR B ENLARGED PLAN A7.02 A1.00 3/8" = 1'-0"

A. STRUCTURAL DESIGN

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 2 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 5. FREE OF WASTE, SURPLUS MATERIALS, RUBBISH, AND DEBRIS RESULTING FROM THE WORK.
- MATERIALS AND EQUIPMENT NECESSARY TO COMPLETE THE WORK SHALL BE STORED AT 6 OWNER DESIGNATED LOCATION(S).
- MATERIAL REMOVED AS PART OF ANY DEMOLITION WORK SHALL BE REMOVED AND DISPOSED 7 OF LEGALLY OFF-SITE, UNLESS OTHERWISE DIRECTED BY THE OWNER.
- WHERE CONFLICTS ARISE BETWEEN NOTES, DRAWINGS, OR SPECIFICATIONS; THE 8. 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 2 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: MINIMUM OF 98% MAXIMUM DENSITY BY ASTM D696 MINIMUM OF 98% MAXIMUM DENSITY BY ASTM D696 FOOTING BEARING ON FILL:
- 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 З. DETERIORATION OF BEARING FORMATIONS SHALL BE PREVENTED. FOOTINGS SHALL BE PLACED IMMEDIATELY FOLLOWING FOOTING EXCAVATIONS AND BEARING SURFACE INSPECTION.
- 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 CONDITIONS.
- DETERMINE THE LOCATION OF ANY EXISTING UNDERGROUND UTILITIES OR STRUCTURES.
- OF ELEMENTS. SEE TYPICAL FOUNDATION DETAIL.
- THE FINAL EXTERIOR GRADE TO PROVIDE ADEQUATE FROST PROTECTION.
- THE FINISHED FLOOR ELEVATION TO PROVIDE ADEQUATE BEARING.

E. CONCRETE

ACI 301	 SPECIFICATIONS
	CONCRETE FOR I
ACI 305R	 HOT WEATHER C
ACI 306	 COLD WEATHER
ACI 318	 BUILDING CODE
	STRUCTURAL CO
ACI 117	 STANDARD SPEC
	FOR CONCRETE

E. CONCRETE CONT.

4

CONCRETE SHALL DEVELOP THE FOLLOWING PERIOD	G MINIMUM COMPR	ESSIVE STRENGTHS IN A 28 DAY
FOOTINGS AND ALL OTHER		
CONCRETE NOT NOTED		$3000 \text{ PSI} (\text{MAX AGGR} = 1 1/4^{\circ})$
INTERIOR SLAB ON GRADE		4000 PSI (MAX AGGR = 1 1/4")

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.

EXTERIOR CONCRETE EXPOSED

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 5 OTHERWISE.
- 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 10.
- 318 FOR THE YEAR REFERENCED BY THE BUILDING CODE NOTED, UNLESS NOTED OTHERWISE.
- DETAILED SHOP DRAWINGS SHALL BE SUBMITTED TO THE CONSTRUCTION MANAGER "FOR 11. REVIEW" (NOT APPROVAL) PRIOR TO FABRICATION.
- EMBEDMENT DEPTH OF DOWELS SHALL BE THE TENSION DEVELOPMENT LENGTH (Ld) IN 12. ACCORDANCE WITH ACI 318 FOR THE YEAR REFERENCED BY THE BUILDING CODE NOTED.
- 13. NO TACK WELDING OF REINFORCING IN THE FIELD WILL BE PERMITTED UNLESS NOTED OTHERWISE.

F. MASONRY

7

- 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 2 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 З. STRFNGTH.
- 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 6 DIAMETERS (U.N.O.)
- 7. LAY MASONRY UNITS WITH FULL MORTAR BEDDING ON HORIZONTAL AND VERTICAL FACES.
- 8. ALL CORNERS ARE TO BE TIED IN MASONRY BOND.

G. PRE-ENGINEERED METAL BUILDING NOTES

- THE ENTIRE PRE-ENGINEERED METAL BUILDING SYSTEM SHALL BE DESIGNED BY THE METAL BUILDING MANUFACTURER IN CONFORMANCE WITH THE PROVISIONS OF THE REFERENCED BUILDING CODE AND THE "LOW-RISE BUILDING SYSTEMS MANUAL" PUBLISHED BY THE METAL BUILDING MANUFACTURERS ASSOCIATION. WHERE THESE CRITERIA CONFLICT, THE MORE STRINGENT CRITERION SHALL APPLY.
- IT IS THE PRE-ENGINEERED METAL BUILDING MANUFACTUER'S RESPONSIBILITY TO DESIGN THE COMPLETE BUILDING SYSTEM (STEEL FRAMING, ANCHOR BOLTS, PURLINS, GIRTS, BRACINGS, CONNECTIONS, ROOFING, WALL PANELS, COMPONENTS, ATTACHMENTS, ETC.). THE MANUFACTURER SHALL SUBMIT A CERTIFICATION LETTER BEARING THE SEAL OF A LICENSED PROFESSIONAL ENGINEER, REGISTERED IN THE STATE HAVING JURISDICTION. STATING THAT THE BUILDING SYSTEM DESIGN MEETS THE INDICATED CODE, PERFORMANCE, AND LOADING REQUIREMENTS.
- THE PRE-ENGINEERED METAL BUILDING MANUFACTURER SHALL BE CERTIFIED BY THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC), CATEGORY MB. THE MANUFACTURER SHALL MEET THE EXCEPTIONS NOTED IN THE SPECIAL INSPECTIONS FABRICATION SECTION, WHICH SPECIFIES QUALITY CONTROL REQUIREMENTS OF THE MANUFACTURER PERTAINING TO SPECIAL INSPECTIONS.
- THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OF THE ENTIRE METAL BUILDING SYSTEM FOR REVIEW. THE CONTRACTOR SHALL ALSO SUBMIT A COMPLETE STRUCTURAL DESIGN ANALYSIS OF THE BUILDING SYSTEM, FOR RECORD PURPOSES ONLY. THE SHOP DRAWING SUBMITTAL SHALL INCLUDE ALL ANCHOR BOLT REQUIREMENTS AND FOUNDATION REACTIONS. ALL SHOP DRAWING AND CALCULATION SUBMITTALS SHALL BEAR THE SEAL OF A LICENSED PROFESSIONAL ENGINEER REGISTERED IN THE STATE HAVING JURISDICTION.
- THE PRE-ENGINEERING METAL BUILDING MANUFACTURER SHALL PROVIDE ALL GIRTS, PURLINS, AND OTHER COMPONENTS REQUIRED FOR A COMPLETE STRUCTURAL SYSTEM. ALL WALL SYSTEMS, SUCH AS METAL STUDS, STOREFRONTS, ETC. SHALL BE SUPPORTED BY THE METAL BUILDING SYSTEM. ALLOWABLE DEFLECTIONS OF COMPONENTS SHALL BE IN ACCORDANCE WITH THE REFERENCED BUILDING CODE.
- THE SIZE, NUMBER, GRIP LENGTH ABOVE BEARING CONCRETE ELEVATION, AND PLACEMENT PATTERN OF ALL ANCHOR BOLTS SHALL BE DETERMINED BY THE PRE-ENGINEERED METAL BUILDING MANUFACTURER. ANCHOR BOLT EMBEDMENT LENGTHS ARE INDICATED ON THE STRUCTURAL DRAWINGS. ANCHOR BOLT LENGTHS SHALL BE DETERMINED BY THE CONTRACTOR BASED ON FOUNDATION AND PRE-ENGINEERING METAL BUILDING DRAWINGS.
- THE METAL BUILDING ERECTOR SHALL PROVIDE ALL TEMPORARY GUYING AND BRACING. SEE GENERAL NOTES.
- UNLESS OTHERWISE NOTED OR SPECIFIED, ALL STEEL MEMBERS SHALL BE CLEANED AND PAINTED IN ACCORDANCE WITH THE MANUFACTURER'S STANDARD PROCEDURES.

2.	THE FOLL S P
3.	THE SUBN NECESSA BY A PRO
4.	SUBMITTA ARCHITEC OFFICIAL.
5.	TEN WOR EACH DEF
6.	THE DEFE SUBMITTA
7	DEEEBBE

J. SPECIAL INSPECTION

ITEM FABRICAT CONCRET WOOD CO SOIL WIND RES SEISMIC F

3

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.

K. ABBREVIATIONS

BLK ΒM B.N. BOTT BRG BTWN CJ COL COM CONC CONN CONT FA FF F.N. ΕW EQUIP FDTN FLG FΝ FOS

PRIOR TO THE START OF EXCAVATIONS THE CONTRACTOR SHALL MEET WITH THE OWNER TO 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 ALL EXTERIOR SPREAD AND CONTINUOUS FOOTINGS SHALL BEAR A MINIMUM OF #'-#" BELOW ALL INTERIOR SPREAD AND CONTINUOUS FOOTINGS SHALL BEAR A MINIMUM OF #'-#" BELOW CONCRETE WORK SHALL CONFORM WITH THE LATEST EDITION OF THE FOLLOWING ACI CODES: FOR STRUCTURAL BUILDINGS ONCRETING CONCRETING REQUIREMENTS FOR NCRFTF IFICATION TOLERANCES CONSTRUCTION AND MATERIALS

H. STRUCTURAL DEFERRED SUBMITTALS

1. DEFERRED SUBMITTALS SHALL CONFORM TO CHAPTER 17 OF THE GOVERNING BUILDING

LOWING ARE STRUCTURAL DEFERRED SUBMITTAL ITEMS: STEEL STAIRS

PRE-ENGINEERED METAL BUILDING FRAMING

MITTALS SHALL INCLUDE BUT SHALL NOT BE LIMITED TO LAYOUT DRAWING, ANY ARY SECTIONS AND/OR DETAILS. AND DESIGN CALCULATIONS STAMPED AND SIGNED FESSIONAL ENGINEER LICENSED IN THE GOVERNING STATE.

AL DOCUMENTS FOR DEFERRED SUBMITTAL ITEMS SHALL BE SUBMITTED TO THE CT OR ENGINEER OF RECORD FOR REVIEW PRIOR TO SUBMISSION TO THE BUILDING

RKING DAYS SHALL BE ALLOWED FOR THE ARCHITECT OR THE ENGINEER TO REVIEW FERRED SUBMITTAL.

ERRED SUBMITTAL ITEMS SHALL NOT BE INSTALLED UNTIL THEIR DESIGN AND AL DOCUMENTS HAVE BEEN APPROVED BY THE BUILDING OFFICIAL.

DEFERRED SUBMITTALS SHALL BE MADE FAR ENOUGH IN ADVANCE SUCH THAT NO DELAY IN CONSTRUCTION OCCURS.

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:

SPECIAL	CODE SECTIO	
FION	YES*	1704.2.5
TE CONSTRUCTION	YES	1705.3
ONSTRUCTION	NO	1705.5
	YES	1705.6
SISTANCE	NO	1705.11
RESISTANCE	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.

LOCKING	FOW
EAM	FS
OTTOM	(FV)
EARING	GA
ETWEEN	HD
ONTROL JOINT	HR
OR CONSTRUCTION JOINT)	LG
OLUMN	LT
OMMON	NS
ONCRETE	PL
ONNECTION	PLCS
ONTINOUS/CONTINUITY	(P.T.)
KISTING	BEE
ACH	REQ'D
ACH FACE	SCH'D
LEVATION DGE NAILING ACH WAY	T&B THD
QUIPMENT	TYP
DUNDATION	UNO
_ANGE	WD
ELD NAILING	WP
ACE OF SHEATHING	WWF

FACE OF WALL FAR SIDE (OR FOOTING STEP) FIELD VERIFY GAGE HEADER HANDRAIL LONG LIGHT NEAR SIDE PLATE PLACES PRESSURE TREATED REFERENCE REQUIRED SCHEDULE STEEL TOP AND BOTTOM THREADED TYPICAL UNLESS NOTED OTHERWISE WOOD WORK POINT WELDED WIRE FABRIC

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City of Elyria

131 Court St - Suite 101 Elyria, Ohio 44035

Project:

Public Safety Training Facilit Multi-Purpose **Training Area**

Garden Street Elyria, Ohio 44035

Revisions:

09.26.2024 For Construction Project Number:

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General Notes

ZONE 1: +18.8 PSF / -29.8 PSF ZONE 2: +17.1 PSF / -51.9 PSF ZONE 3: +16.0 PSF / -76.7 PSF h = 26.7FT a = 5.0FT

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Diagrams & Schedules

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.				
F5.0	5'-0" x 5'-0" x 3'-0"	(6) #5 EW T&B				
F7.0	7'-0" x 7'-0" x 3'-0"	(8) #5 EW T&B				

GROSS WIND PRESSURE

-28.6 PSF -50.7 PSF -75.5 PSF

NET UPLIFT

7 TYPICAL HAIRPIN DETAIL S2.00 NONE

- CONTINUOUS ACROSS CONTRACTION JOINT. DISCONTINUE HORIZONTAL JOINT REINFORCING З.
- AT CONTRACTION JOINTS. CONTRACTION JOINTS SHALL BE PLACED WITHIN 12'-0" OF CORNERS, AND SPACED NOT TO EXCEED 25'-0" OC 4.

2 MASONRY CONTRACTION JOINT DETAIL S5.00 SCALE: NONE

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Typical Masonry Details

PROVIDE PREFABRICATED CORNER LADDER TYPE HORIZ. REINFORCING

4 CMU Corner Detail \$5.00 3/4" = 1'-0"

ABBREVIATIONS (ALL ABBREVIATIONS ARE NOT NECESSARILY USED)

ABOVE GRADE

ADDENDUM

ADDITIONAL

ADJUSTABLE

ALTERNATE

BELOW GRADE

CLEANOUT

COLUMN

DOWN

EQUAL

FLOOR

FURNACE

COMPRESSED AIR

CARBON DIOXIDE

CONTINUATION

COLD WATER

DISHWASHER

ELECTRICAL CONTRACTOR

FLOOR CLEANOUT

FLOOR DRAIN

FOOT, FEET

ABOVE FINISH FLOOR

ABOVE FINISH GRADE

BELOW FINISH FLOOR

BELOW FINISH GRADE

AG

ADD

ADDL

ADJ AFF

AFG

ALT

BFF

BFG

BG

CA

CO

CO2 COL

CONT CW

DN

DW

EC

EQ

FCO

FD

FLR

FT

F

VTR

W/

W/O

WA

WC

WC

Х

PLUMBING SYMBOLS
(ALL SYMBOLS SHOWN ARE NOT NECESSARILY USED ON THE DRAWINGS)

		1 1.	THE WORK SHALL CONFORM T
	EXISTING PLUMBING		NATIONAL CODES.
	NEW PLUMBING	2.	DEMOLITION, FABRICATION, OF
Ø	CONNECT NEW TO EXISTING. VERIFY FIELD CONDITIONS.	З.	ALL DIMENSIONS AND ELEVATIONS AND ELEVATIONS AND SHALL
— # —	CIRCUIT SETTER		CONTRACTOR PRIOR TO USING ACTIVITIES.
—₩—	BALL VALVE OR SHUT-OFF VALVE	4.	CONTRACTOR SHALL REVIEW A
<u>N</u>	SPRING CHECK VALVE		EXISTING CONDITIONS PRIOR T CONDITIONS NOT DOCUMENTE
—×—	PRESSURE REDUCING VALVE (PRV)		TO BE DIFFERENT THAN THOSE BE REPORTED TO THE ENGINE
	RPZ VALVE OR BACKFLOW PREVENTER		COMMENCING THE WORK.
P	HAMMER ARRESTOR (PISTON TYPE)	5.	SUBMIT ALL NOT PRIOR SUBMIT
ø	HAMMER ARRESTOR (BELLOWS TYPE)		ASSOCIATED WITH PERMITS, U FTC, THE ENGINEER SHALL SU
→	PIPE REDUCER FITTING		OWNER'S REVIEW AND PERMIT CONTRACTOR WILL BE RESPON
E	END CAP		AND ALL ASSOCIATED PERMIT
_	PIPE CONNECTION	6.	THE CONTRACTOR SHALL BE R DEBRIS RESULTING FROM DEM
	FLOW DIRECTION ARROW		ON THIS PROJECT.
e——	PIPING ELBOW DOWN	7.	SCHEDULE THEIR WORK WITH
•—	PIPING ELBOW UP OR PIPING RISER UP & DOWN		WORK.
	PIPING TEE DOWN	8.	PARKING AT THE SITE BY CONS LIMITED TO THE LOCATIONS DE
— •—	PIPING TEE UP OR PIPING RISER UP & DOWN		
⊶ +	HOSE BIB OR WALL HYDRANT		
0	FLOW METER		
®	PRESSURE REGULATOR		
۲	CIRCULATING PUMP (HOT WATER RETURN)		
	NEW TO EXISTING PIPE CONNECTION		
#	KEYNOTE SYMBOL		
Λ	REVISION MARK		
FIRES	TOP SCHEDULE	<u>. </u>	

PENETRATION	RATING	U.L. SYSTEM
INSULATED METAL PIPE THROUGH GYPSUM BOARD	1 OR 2 HOUR	HILTI UL #WL5029 OR APPROVED EQUAL
INSULATED METAL PIPE THROUGH MASONRY/CONCRETE	2 HOUR	HILTI UL #CAJ5091 OR APPROVED EQUAL
INSULATED METAL PIPE THROUGH POURED CONCRETE FLOOR SLAB	2 HOUR	HILTI UL #CAJ5091 OR APPROVED EQUAL
METAL PIPE THROUGH GYPSUM BOARD	1 OR 2 HOUR	HILTI UL #WL1054 OR APPROVED EQUAL
METAL PIPE THROUGH MASONRY/CONCRETE	2 HOUR	HILTI UL #CAJ1291 OR APPROVED EQUAL
METAL PIPE THROUGH POURED CONCRETE FLOOR SLAB	3 HOUR	HILTI UL #FA1017 OR APPROVED EQUAL
PLASTIC PIPE THROUGH GYPSUM BOARD	1 OR 2 HOUR	HILTI UL #WL2078 OR APPROVED EQUAL
PLASTIC PIPE THROUGH MASONRY/CONCRETE	2 HOUR	HILTI UL #CAJ2271 OR APPROVED EQUAL
PLASTIC PIPE THROUGH POURED CONCRETE FLOOR SLAB	3 HOUR	HILTI UL #FA2054 OR APPROVED EQUAL

NOTES: . FIRESTOP ASSEMBLY TYPE SHALL BE DETERMINED BY THE WALL OR FLOOR/CEILING ASSEMBLY AND PENETRATION TYPE AND SHALL BE UL LISTED AND TESTED IN ACCORDANCE WITH ASTM E814. FIRE RATING OF THE ASSEMBLY SHALL BE EQUIVALENT TO THE WALL OR FLOOR/CEILING ASSEMBLY RATING. 2. ACCEPTABLE FIRE BARRIER PRODUCTS: HILTI 'FS-ONE', NELSON 'FLAMESEAL' OR APPROVED EQUAL AS MANUFACTURED BY 3M. 3. IF REQUESTED, THE CONTRACTOR SHALL SHOW PROOF OF COMPLIANCE BY PROVIDING THE APPROPRIATE UL FIRESTOPPING SYSTEM NUMBER TO THE AHJ OR THE ARCHITECT/ENGINEER.

G GAL GC GD GPM GW	GAS GALLON GENERAL CONTRACTOR GARBAGE DISPOSAL GALLONS PER MINUTE GREASY WASTE
HW HWR	HOT WATER HOT WATER RETURN
IE	INVERT ELEVATION
LA LP	LABORATORY AIR LIQUID PROPANE
MA MANUF MC MECH MIN MV	MEDICAL AIR MANUFACTURER MECHANICAL CONTRACTOR MECHANICAL MINIMUM MEDICAL VACUUM
N NG NPCW NPHW NTS	NITROGEN NATURAL GAS NON POTABLE COLD WATER NON POTABLE HOT WATER NOT TO SCALE
O2 OS	OXYGEN OPEN SITE DRAIN
PC PLBG PRES	PLUMBING CONTRACTOR PLUMBING PRESSURE
QTY	QUANTITY
REG RO	REGULATOR REVERSE OSMOSIS
SAN SCH SCW SHW SPEC SS	SANITARY SCHEDULE SOFT COLD WATER SOFT HOT WATER SPECIFICATIONS STAINLESS STEEL
TEMP TW	TEMPORARY TEPID WATER

TYP TYPICAL UNO UNLESS NOTED OTHERWISE VENT

VENT THRU ROOF WITH WITHOUT WASTE ANESTHESIA WCO WALL CLEANOUT

WATER CLOSET WATER COLUMN EXISTING

GENERAL NOTES

- L CONFORM TO ALL APPLICABLE LOCAL,
- STING CONDITIONS PRIOR TO PERFORMING ANY BRICATION, OR CONSTRUCTION WORK.
- AND ELEVATIONS NOTED AS "(REF)" ARE FOR Y AND SHALL BE FIELD VERIFIED BY THE RIOR TO USING THEM FOR ANY CONSTRUCTION
- HALL REVIEW AND BECOME FAMILIAR WITH ALL TIONS PRIOR TO COMMENCING WORK. ANY T DOCUMENTED ON THESE DRAWINGS OR OBSERVED T THAN THOSE SHOWN ON THESE DRAWINGS ARE TO D THE ENGINEER AND OWNER PRIOR TO HE WORK.
- HALL CONTACT LOCAL UTILITIES AS REQUIRED. PRIOR SUBMITTED PERMIT DOCUMENTS, , ETC. AND BE RESPONSIBLE FOR ALL FEES TH PERMITS, UTILITY EXTENSIONS, TAP-INSPECTIONS, EER SHALL SUBMIT CONSTRUCTION DOCUMENTS FOR V AND PERMIT PLAN REVIEW; HOWEVER, THE ILL BE RESPONSIBLE FOR OBTAINING THE PERMITS, ATED PERMIT AND INSPECTION COSTS/FEES.
- OR SHALL BE RESPONSIBLE FOR REMOVAL OF ALL NG FROM DEMOLITION AND/OR CONSTRUCTION WORK
- RACTOR IS RESPONSIBLE TO COORDINATE AND R WORK WITH THE GENERAL CONTRACTOR AND ALL CTORS WHOSE WORK WILL BE AFFECTED BY THEIR
- SITE BY CONSTRUCTION PERSONNEL SHALL BE LOCATIONS DESIGNATED BY THE OWNER/OWNER'S

- _____

E LEGEND

SANITARY - SAN SANITARY BELOW GRADE- SAN ----- VENT - V NATURAL GAS - NG — — HOT WATER - HW HOT WATER RETURN - HWR - COLD WATER - CW

EQUAL

EQUAL EQUAL QUAL EQUAL QUAL QUAL EQUAL

PLUMBING DRAWING INDEX SHEET NUMBER SHEET NAME P0.00 Plumbing Symbols, Notes & Abbreviations P1.01 Multi-Purpose Training Area First Floor Plumbing Plan Multi-Purpose Training Area Second Floor Plumbing Plan P1.02 P2.00 Plumbing Details and Diagrams P3.00 Plumbing Schedules

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Revisions:

A 11.07.2024 ADDENDUM A 09.26.2024 For Construction

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Project Number: 5039 01 23 BMH BMH 2024

- 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.
- 3. 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.
- REFER TO ARCHITECTURAL AND STRUCTURAL PLANS FOR DESIGN REQUIREMENTS OF PENETRATIONS. CONTRACTOR TO TAKE EXTRA CARE AS TO NOT CORE THROUGH EXISTING STRUCTURAL MEMBERS.
- 7. THE PLUMBING CONTRACTOR SHALL COORDINATE WITH THE MECHANICAL CONTRACTOR THE EXACT LOCATIONS OF FLOOR DRAINS REQUIRED TO SERVE MECHANICAL EQUIPMENT.
- 8. REFER TO PLUMBING ISOMETRICS FOR ANY SANITARY AND VENT PIPING AND SIZES NOT INIDCATED ON THE PLANS.

PLUMBING PLAN KEYNOTES

- 1 PROVIDE 3/4" NATURAL GAS PIPING TO EACH FURNACE. PROVIDE ISOLATION VALVE, REGULATOR (IF REQUIRED), DIRT LEG AND UNION. (60 MBH)
- 2 PROVIDE NATURAL GAS METER AND APPURTENANCES PER LOCAL GAS COMPANY. ROUTE PIPING FROM METER INTO BUILDING THROUGH WEATHERPROOF SLEEVE ABOVE BUILDING FOUNDATION. CEE CIVIL UTILITY PLANS FOR UNDERGROUND PIPING CONTINUATION.
- SEE CIVIL UTILITY PLANS FOR 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.

1101 Auburn Avenue Cleveland, Ohio 44113 p. 216-767-5400 sixmoarchitecture.com N'STATE OF O. BRANDON HABERL PE485964 /ONA 11/07/2024 _____ Client: City of Elyria 131 Court St - Suite 101 Elyria, Ohio 44035 -----Project: Public Safety Training Facility Multi-Purpose Training Area Garden Street Elyria, Ohio 44035 Revisions: _____ A 11.07.2024 ADDENDUM A 09.26.2024 For Construction 5039 01 23 Project Number: BMH Drawn by: BMH Checked by: 2024 Copyright: Multi-Purpose Training Area First Floor Plumbing Plan

E

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.
- 7. THE PLUMBING CONTRACTOR SHALL COORDINATE WITH THE MECHANICAL CONTRACTOR THE EXACT LOCATIONS OF FLOOR DRAINS REQUIRED TO SERVE MECHANICAL EQUIPMENT.
- 8. REFER TO PLUMBING ISOMETRICS FOR ANY SANITARY AND VENT PIPING AND SIZES NOT INIDCATED ON THE PLANS.

PLUMBING PLAN KEYNOTES

E

- 1 PROVIDE 3/4" NATURAL GAS PIPING TO EACH FURNACE. PROVIDE ISOLATION VALVE, REGULATOR (IF REQUIRED), DIRT LEG AND UNION. (80 MBH)
- 2 ROUTE NEW VTR UP THROUGH ROOF. COORDINATE EXACT LOCATION AND PENETRATION WITH PEMB ROOF CONTRACTOR.
- 3 ALL EXPOSED VENT PIPING SHALL BE CAST IRON.

	Training Area Second Floor Plumbing Plan
	A 11.07.2024 ADDENDUM A 09.26.2024 For Construction Project Number: 5039 01 23 Drawn by: BMH Checked by: BMH Copyright: 2024
	 Revisions:
	Training Facility Multi-Purpose Training Area Garden Street Elyria, Ohio 44035
	 131 Court St - Suite 101 Elyria, Ohio 44035 Project: Public Safety
	^{Client:} City of Elyria
)F	
E. D),	
AND	
OR TOR H	11/07/2024
0'-0"	BRANDON HABERL PEA85964 SS/ONAL ENG
I AIR M IS E- ED	1101 Auburn Avenue Cleveland, Ohio 44113 p. 216-767-5400 sixmoarchitecture.com

NG LOAD SCHEDULE

TAG	LOAD (CFH)				
F-1	60				
F-2	FURNACE	60			
F-3	FURNACE	80			
F-3	F-3 FURNACE				
	TOTAL CONNECTED LOAD (CFH)	280			
ES	TIMATED DEVELOPED LENGTH (FT)	50			
REQUESTED NATURAL GAS 7 IN WC PRESSURE* 7 IN WC					
NOTES: 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.					
2. CONTRACTOR SHALL INSTALL GAS METER, PRESSURE REGULATOR, AND ALL ASSOCIATED VALVING AS PER THE LOCAL NATURAL GAS COMPANY REQUIREMENTS.					

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	WALL MOUNT LAVATORY (ADA)	SLOAN	SS-3003	WALL	-	-	1-1/2"	1-1/2"	ADA COMPLIANT INSTALLATION, 18-1/4" X 20-3/4" X 12-1/4" VITREOUS CHINA WALLMOUNT RECTANGULAR 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
WC-1	ADA WATER CLOSET	SLOAN	WETS-8029	FLOOR	1/2"	-	4"	2"	ADA COMPLIANT INSTALLATION, VITREOUS CHINA FLOOR MOUNTED WATER CLOSET. 1.28 GPF, ELONGATED BOWL, TANK STYLE INLET. PROVIDE WITH BEMIS 1955CT OPEN FRONT TOILET SEAT. CONTRACTOR SHALL COORDINATE LEFT OR RIGHT FLUSH HANDLE	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	-	-	3"	-	DUCO-COATED CAST IRON BODY WITH GALVANIZED STEEL COVER, VANDAL PROOF, PROVIDE WITH ZURN MODEL Z1072 ASSE 1072 TRAP SEAL DEVICE	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

					•••	•						
TAG	MANUFACTURER	MODEL	GALLONS	UEF	RECOVER @ 90 DEG RISE (GPH)	MAX WATTAGE	V	PH	PRESSURE RELIEF (PSIG)	SIZE (Ø"xH")	WEIGHT FULL (LBS)	NOTES
WH-1	AO SMITH	DEL-10	10	NA	27	2.5KW	240	1	150	18"x19"	150	1,2
NOTES												

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

E	EXPANSION TANK SCHEDULE								
MARK	LOCATION	GALLONS	MANUFACTURER & MODEL NUMBER	FULL WEIG					
ET-1	ET-1 MECHANICAL ROOM 2 WESSELS T-5 -								
NOTES: 1. ACCEPTABLE MANUFACTURERS: AMTROL, ARMSTRONG, BELL & GOSSETT, TACO, THRUSH.									

HT (LBS)	NOTES
	1

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Client:

City of Elyria

131 Court St - Suite 101 Elyria, Ohio 44035

Project:

Public Safety Training Facility Multi-Purpose Training Area

Garden Street Elyria, Ohio 44035

Revisions:

A 11.07.2024 ADDENDUM A 09.26.2024 For Construction

Drawn by: Checked by: Copyright:

Project Number: 5039 01 23 BMH BMH 2024

(ALL ABBRI	REVIATIONS EVIATIONS ARE NOT NECESSARILY USED)	(ALL SYMBOI	HANICAL SY LS SHOWN ARE NOT NECESSA
AABC ASHRAE ASTM	ASSOCIATED AIR BALANCE COUNCIL AMERICAN SOCIETY OF HEATING, REFRIGERATING, & AIR CONDITION ENGINEERS AMERICAN SOCIETY FOR TESTING AND MATERIALS		EXISTING HVAC NEW HVAC
CFM	CUBIC FEET PER MINUTE	0	CONNECT NEW TO EXISTING
D OR Ø DN EA	DIAMETER DOWN EXHAUST AIR	© ⊠	ROUND SUPPLY DIFFUSER
FG	FLOOR GRILLE		SQUARE SUPPLY DIFFUSER V
HVAC	HEATING, VENTILATION, & AIR CONDITIONING		SQUARE RETURN GRILLE
IECC	INTERNATIONAL ENERGY CONSERVATION CODE	\bowtie	SQUARE EXHAUST GRILLE
MAX MERV	MAXIMUM MINIMUM EFFICIENCY REPORTING	1 🚽	MANUAL BALANCE DAMPER
NEBB NEC NFPA ASSOCIATIO NG	NATIONAL ENVIRONMENTAL BALANCING BUREAU NATIONAL ELECTRIC CODE NATIONAL FIRE PROTECTION ON NATURAL GAS	© © 1	THERMOSTAT CARBON DIOXIDE SENSOR KEYNOTE SYMBOL
OA OCC OH OMC OSHA	OUTSIDE AIR OCCUPANCY OHIO OHIO MECHANICAL CODE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION	<u>∧</u> . →-	REVISION MARK AIRFLOW DIRECTION CONTINUATION
PCF PVC	POUND-FORCE PER CUBIC FOOT POLYVINYL CHLORIDE		
R RA REF REQ	RADIUS RETURN AIR REFERENCE REQUIRED		
SA SAN SCH SD SF SMACNA	SUPPLY AIR SANITARY WASTE SCHEDULE SUPPLY DIFFUSER SQUARE FEET SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION		
UL UV	UNDERWRITERS LABORATORIES ULTRAVIOLET		
WG	WATER GAUGE		

Project Information Energy Code: Project Title: Location:

Elyria, Ohio 5a

Heating: 1 each - Central Furnace, Gas, Capacity = 60 kBtu/h

Construction Site:

Climate Zone:

Project Type:

Simunitions Building

90.1 (2019) Standard

Elyria, Ohio 44035

New Construction

Mechanical Systems List Quantity System Type & Description

1 F-1A (Single Zone):

Owner/Agent: City of Elyria

131 Court Street, Suite 101

Fan System: F-1 and F-2 -- Compliance (Motor nameplate HP and fan efficiency method) : Passes

Elyria, Ohio 44035

Proposed Efficiency = 96.00% Et, Required Efficiency: 80.00 % Et (or 80% AFUE)

Cooling: 1 each - Split System, Capacity = 36 kBtu/h, Air-Cooled Condenser Proposed Efficiency = 17.00 SEER2, Required Efficiency = 13.40 SEER2 Proposed Part Load Efficiency = 0.00, Required Part Load Efficiency = 0.00

Designer/Contractor: Sixmo Architecture 1101 Auburn Avenue Cleveland, Ohio 44113

Name - Title

1 F-1B (Single Zone): Heating: 1 each - Central Furnace, Gas, Capacity = 60 kBtu/h Proposed Efficiency = 96.00% Et, Required Efficiency: 80.00 % Et (or 80% AFUE) Cooling: 1 each - Split System, Capacity = 36 kBtu/h, Air-Cooled Condenser Proposed Efficiency = 17.00 SEER2, Required Efficiency = 13.40 SEER2 Proposed Part Load Efficiency = 0.00, Required Part Load Efficiency = 0.00Fan System: F-1 and F-2 -- Compliance (Motor nameplate HP and fan efficiency method) : Passes

F-1 and F-2 Supply, Constant Volume, 1200 CFM, 0.5 motor nameplate hp, 1.00 fan energy index , fan exception:

F-1 and F-2 Supply, Constant Volume, 1200 CFM, 0.5 motor nameplate hp, 1.00 fan energy index , fan exception: Single fan < 1 HP or < 0.89 kW

1 F-2A (Single Zone):

Single fan < 1 HP or < 0.89 kW

Heating: 1 each - Central Furnace, Gas, Capacity = 80 kBtu/h Proposed Efficiency = 96.00% Et, Required Efficiency: 80.00 % Et (or 80% AFUE)

Cooling: 1 each - Split System, Capacity = 48 kBtu/h, Air-Cooled Condenser Proposed Efficiency = 17.00 SEER2, Required Efficiency = 13.40 SEER2

Proposed Part Load Efficiency = 0.00, Required Part Load Efficiency = 0.00Fan System: F-3 AND F-4 -- Compliance (Motor nameplate HP and fan efficiency method) : Passes

F-3 AND F-4 Supply, Constant Volume, 1400 CFM, 1.0 motor nameplate hp, 1.00 fan energy index

F-2B (Single Zone):

Heating: 1 each - Central Furnace, Gas, Capacity = 80 kBtu/h Proposed Efficiency = 96.00% Et, Required Efficiency: 80.00 % Et (or 80% AFUE)

Cooling: 1 each - Split System, Capacity = 48 kBtu/h, Air-Cooled Condenser

Proposed Efficiency = 17.00 SEER2, Required Efficiency = 13.40 SEER2 Proposed Part Load Efficiency = 0.00, Required Part Load Efficiency = 0.00

Fan System: F-3 AND F-4 -- Compliance (Motor nameplate HP and fan efficiency method) : Passes

F-3 AND F-4 Supply, Constant Volume, 1400 CFM, 1.0 motor nameplate hp, 1.00 fan energy index

Project Title: Simunitions Building Data filename:

1

Report date: 11/06/24 Page 5 of 18 Data filename:

MECHANICAL GENERAL NOTES

- 1. THE MECHANICAL CONTRACTOR SHALL COORDINATE FINAL ELECTRICAL REQUIREMENTS OF EQUIPMENT PRIOR TO ORDERING.
- 2. REFER TO ARCHITECTURAL PLANS AND DETAILS FOR EXACT DIMENSIONS, ELEVATIONS AND LOCATIONS OF EQUIPMENT, FIXTURES, OPENINGS, FIRE AND SMOKE WALL AND RATED STRUCTURES.
- 3. 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.
- 4. 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.
- 5. REFER TO ARCHITECTURAL AND STRUCTURAL PLANS FOR DESIGN REQUIREMENTS OF PENETRATIONS.

MECHANICAL PLAN KEYNOTES

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N'STATE OF O.

BRANDON

HABERL

PE485964

11/07/2024

MECHANICAL GENERAL NOTES

- 1. THE MECHANICAL CONTRACTOR SHALL COORDINATE FINAL ELECTRICAL REQUIREMENTS OF EQUIPMENT PRIOR TO ORDERING.
- 2. REFER TO ARCHITECTURAL PLANS AND DETAILS FOR EXACT DIMENSIONS, ELEVATIONS AND LOCATIONS OF EQUIPMENT, FIXTURES, OPENINGS, FIRE AND SMOKE WALL AND RATED STRUCTURES.
- 3. 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.
- 4. 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.
- 5. REFER TO ARCHITECTURAL AND STRUCTURAL PLANS FOR DESIGN REQUIREMENTS OF PENETRATIONS.

	MECH	IANICAL PLAN KEYNOTES	 11/07/2024
E	1	INSTALL FURNACE PER MANUFACTURERS RECOMMENDATIONS. ROUTE FURNACE FLUE AND COMBUSTION AIR PIPING UP THROUGH ROOF AND TERMINATE WITH CONCENTRIC VENT. PROVIDE FURNACE WITH MIXING BOX/ECONOMIZER SIMILAR TO MICROMETL CUBE WITH INTEGRAL CONTROLS	
Á		SEE PLUMBING PLANS FOR NATURAL GAS PIPING.	
	$\left\{ \overset{\sim}{3}\right\}$	PROVIDE PRIMARY AND SECONDARY CONDENSATE AND	
		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.	
			Client:
			City of Elyria
			131 Court St - Suite 101 Elyria, Ohio 44035
	~		Project: Public Safety Training Facility Multi-Purpose Training Area
			Garden Street Elyria, Ohio 44035
		Image:	
			 Revisions:
			A 11.07.2024 ADDENDUM A
			Project Number: 5039 01 23 Drawn by: BMH Checked by: BMH Copyright: 2024
		(N)-	Multi-Purpose Training Area Second Floor Mechanical Plan
		\sim	$N/1 \cap$

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Cleveland, Ohio 44113

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SCALE: NONE

NOTES:

REQUIRED (TOP AND BOTTOM) FOR ACTUAL CONSTRUCTION

1. BIRD SCREEN FOR OUTSIDE AIR INTAKE LOUVER TO BE REMOVABLE OR 2. DBCT MAY ATTACH TO BOTTOM OF FRAME IF LOUVER IS DRAINABLE.

- ROOF SUPPORT

NA	NATURAL GAS FURNACE SCHEDULE																
TAG	SERVES	INPUT MBH	OUTPUT MBH	CAPACITY STAGES	TEMP RISE	NOMINAL COOLING TONS	TOTAL CFM	EXTERNAL SP (IN)	BLOWER MOTOR (HP)	VOLTS	EL PHASE	ECTRIC/ HZ	AL AMPS	MCA	WEIGHT	MANUFACTURER & MODEL NO.	NOTES
F-1A	SEE PLANS	60	58	2	44.5	3	1200	0.5	1/2	115	1	60	-	9.3	200	CARRIER 59TN6B	1-11
F-1B	SEE PLANS	60	58	2	44.5	3	1200	0.5	1/2	115	1	60	-	9.3	200	CARRIER 59TN6B	1-11
F-2A	SEE PLANS	80	78	2	51.3	4	1400	0.5	1	115	1	60	-	13.6	260	CARRIER 59TN6B	1-11
F-2B	SEE PLANS	80	78	2	51.3	4	1400	0.5	1	115	1	60	-	13.6	260	CARRIER 59TN6B	1-11

NOTES:

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 EXTERIOR. PROVIDE FLUE CONDENSATE WITH ACID NEUTRALIZATION KIT. PROVIDE HEAT TRACE PIPING AND INSULATION OVER ANY EXTERIOR CONDENSATE PIPING AND PIPING WHERE POTENTIAL FOR FREEZING EXISTS.
- 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.

AIR COOLED CONDENSING UNIT SCHEDULE																				
тас		OVOTEM	NOMINAL	TOTAL	SENS.	SEER			CON	DENSE	R FAN			ELE	CTRIC	CAL		WEICUT		NOTES
TAG	UNITS	STOTEIN	TONS	(MBH)	(MBH)	AT ARI	REFRIG.	TYPE	CFM	RPM	AMPS	MOTOR HP	VOLTS	PHASE	ΗZ	AMPS	MCA	WEIGHT	MANUFACTORER & MODEL NO.	NOTES
CU-1A	SEE PLANS	F-1A	3	35.8	27.2	17	PURON	PROP	-	-	-	-	208	1	60	-	19.8	216	CARRIER 24ACB	1-8
CU-1B	SEE PLANS	F-1B	3	35.8	27.2	17	PURON	PROP	-	-	-	-	208	1	60	-	19.8	216	CARRIER 24ACB	1-8
CU-2A	SEE PLANS	F-2A	4	47.5	34.3	17	PURON	PROP	-	-	-	-	208	1	60	-	27.8	277	CARRIER 24ACB	1-8
CU-2B	SEE PLANS	F-2B	4	47.5	34.3	17	PURON	PROP	-	-	-	-	208	1	60	-	27.8	277	CARRIER 24ACB	1-8

NOTES:

- ACCEPTABLE MANUFACTURERS: CARRIER, BRYANT, JCI, LENNOX, RUUD, TRANE.
- PROVIDE WITH HI/LO PRESSURE CONTROL, CONDENSER COIL HAIL GUARDS, AND CRANKCASE HEATER.
- MOUNT ON DIVERSITECH MODEL 'ACB' OR EQUAL EQUIPMENT PLATFORM WITH VIBRATION ISOLATOR PADS. 4. PROVIDE WITH 2-STAGE COMPRESSOR AND COMPRESSOR FAN.
- 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.

	TAG	DESCRIPTION	MATERIAL	FINISH	MAX NOISE CRITERIA	MANUFACTURER & MODEL NO.	NOTES
Â	SG-1	12X4, DIRECT SPIRAL DUCT MOUNTED DOUBLE DEFLECTION SUPPLY		NOTE 2	25	TITUS US300FL	
<u> </u>	SD-1	12X12, ALUMINUM PLAQUE DIFFUSER, SEE PLANS FOR NECK SIZE	ALUMINUM	NOTE 2	25	TITUS OMNI-AA	1
C	RG-1	24X16 STEEL RETURN GRILLE, 3/4" BLADE SPACING, 35 DEGREE DEFLECTION, BLADES PARALLEL TO LONG DIMENSION	STEEL	NOTE 2	25	TITUS 350 RL	
	NOTES: 1. ACCEPTABL 2. SHALL BE C	E MANUFACTURERS: TITUS, PRICE, ANEMOSTAT, HART & COOLEY, KRUEGER, TUTTLI OLOR #2 BRITISH WHITE.	E & BAILEY.				

TAG	DESCRIPTION	MATERIAL	VOLUME (CFM)	FREE AREA VELOCITY (FPM)	FREE AREA (SQ.FT)	MANUFACTURER & MODEL NO.	NOTES	
IL-1A	16 W X 20 H LOUVER FOR F-1A VENTILATION AIR	ALUMINUM	250	336	0.7	GREENHECK ESD-635-16X20	1-4	
IL-1B	16 W X 20 H LOUVER FOR F-1B VENTILATION AIR	ALUMINUM	250	336	0.7	GREENHECK ESD-635-16X20	1-4	
IL-2A	16 W X 20 H LOUVER FOR F-2A VENTILATION AIR	ALUMINUM	250	336	0.7	GREENHECK ESD-635-16X20	1-4	
IL-2B	16 W X 20 H LOUVER FOR F-2B VENTILATION AIR	ALUMINUM	250	336	0.7	GREENHECK ESD-635-20X16	1-4	
NOTES								

1. ACCEPTABLE MANUFACTURERS: TITUS, PRICE, ANEMOSTAT, HART & COOLEY, KRUEGER, TUTTLE & BAILEY. 2. PROVIDE WITH BIRD SCREEN. 3. PROVIDE WITH MOTORIZED DAMPER AND INTERLOCK WITH CORRESPONDING FURNACE.

4. LOUVER SHALL BE DRAINABLE.

	TAUS		EDUL												
TAG		SYSTEM	CEM	EGD		рир		ELECTRICAL				FAN	WEIGHT	MANUFACTURER &	NOTES
TAG	LUCATION			EOF			VOLTS/Ø	WATTS	MOCP		DINVE	TYPE	(LBS)	MODEL NO.	NOILS
EF-1	RR	GENERAL EXHAUST	75	.5	773	-	120 / 1	17	15	YES	DIRECT	CABINET	16	GREENHECK SP-LP0511-1	1-3
EF-2	RR	GENERAL EXHAUST	75	.5	773	-	120 / 1	17	15	YES	DIRECT	CABINET	16	GREENHECK SP-LP0511-1	1-3
EF-3	RR	UTILITY	75	.5	773	-	120 / 1	17	15	YES	DIRECT	CABINET	16	GREENHECK SP-LP0511-1	1-3

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.

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

Client: City of Elyria

131 Court St - Suite 101 Elyria, Ohio 44035

Project:

Public Safety Training Facility Multi-Purpose Training Area

Garden Street Elyria, Ohio 44035

Revisions:

A 11.07.2024 ADDENDUM A 09.26.2024 For Construction

Drawn by: Checked by: Copyright:

Mechanical Schedules

Project Number: 5039 01 23 BMH BMH 2024

ELECTRICAL SYMBOL LEGEND

SYMBOL	
	PANELBOARD SURFACE N SCHEDULES AND ONE-LIN
+	CONDUIT WITH WIRING RU OR RUN EXPOSED IN UNF NUMBER OF CONDUCTOF SIZED GROUND WIRE IN A CONDUCTORS SHOWN. CONDUIT WITH WIRING RU HATCHING INDICATES NU PROVIDE A CODE-SIZED G THE CONDUCTORS SHOW
	RECEPTACLE NOTES AND • RATED 125V, 20A • MOUNTED AT 18"
	+##"MOUNTED AT ##ACINSTALLED 8" ABOCRECESSED MOUNRECEPTACLE ANDFINISHGFIGROUND FAULT IHHORIZONTALIGISOLATED GROUNTTAMPER RESISTAUCBELOW COUNTEFUSBDUPLEX RECEPTAPORTSWPWEATHER RESISTIN-USE COVER"
\bigoplus	20A - 125V GROUNDING T CENTER OF BOX, UNLESS
\oplus	20A - 125V GROUNDING T AFF TO CENTER OF BOX,
\$	LIGHT SWITCH NOTES AN RATED 120/277V, MOUNTED AT 48' SWITCHES SHALL E.C. SHALL DERA SHOP DRAWINGS BASIS OF DESIGN NO SUBSCRIPT IN SUBSCRIPT 'D' INE WITH OTHER SWIT REQUIREMENTS N LOWERCASE SUB
	3 THREE POLE TOG 4 FOUR POLE TOG OC OCCUPANCY SEN VS VACANCY SENSO F FAN CONTROL AN H HORIZONTAL OR OVERRIDE SWITC KOR KEYED OVERRIDE SWEEP OFF ALL LIGHTING
	DISCONNECT SWITCH - TY

DESCRIPTION MOUNTED 6-6" TO TOP. SEE PANEL NE DIAGRAM. UN CONCEALED IN OR ABOVE CEILING OR WALL, FINISHED AREAS. CROSS HATCHING INDICATES RS (#12 AWG - MINIMUM), PROVIDE A CODE- ALL CONDUITS IN ADDITION TO THE UN CONCEALED BELOW FLOOR. CROSS MBER OF CONDUCTORS (#12 AWG - MINIMUM), GROUND WIRE IN ALL CONDUITS IN ADDITION TO W. DESIGNATIONS: UON "" OVE COUNTERTOP NTED FLUSH IN FINISHED CEILING, D FACEPLATE FINISH TO MATCH CEILING D FACEPLATE FINISH TO MATCH CEILING D FACEPLATE FINISH TO MATCH CEILING INTERRUPTING TYPE ND NT LISTED R ACLE WITH (1) USB TYPE A AND (1) USB TYPE C TANT LISTED WITH DIE-CAST ALUMINUM "WHILE YPE DUPLEX RECEPTACLE MOUNTED 18" AFF TO S NOTED OTHERWISE. '' PUE QUADRAPLEX RECEPTACLE MOUNTED 18" AFF TO S NOTED OTHERWISE. '' PUE QUADRAPLEX RECEPTACLE MOUNTED 18" AFF TO S NOTED OTHERWISE. '' PUE QUADRAPLEX RECEPTACLE MOUNTED 18" UNLESS NOTED OTHERWISE. '' PUE GUADRAPLEX RECEPTACLE MOUNTED 18" '' H ASSOCIATED FIXTURE TYPE. SCRIPTS INDICATE LIGHTING CONTROL ZONE. '' GUE SWITCH '' SOR SWITCH '' SWITCH ND LIGHT DIMMER '' '' PUE AND RATING AS INDICATED ON PLANS '' YPE DUPLEX RECEPTACLE MOUNTED TO '' '' PUE AND RATING AS INDICATED ON PLANS '' '' '' '' PUE AND RATING AS INDICATED ON PLANS '' '' '' '' '' '' '' '' '' '	DESCRIPTION MOUNTED 6-6" TO TOP. SEE PANEL NE DIAGRAM. UN CONCEALED IN OR ABOYE CEILING OR WALL, FINISHED AREAS, CROSS HATCHING INDICATES RS (#12 AWG - MINIMUM), PROVIDE A CODE- ALL CONDUITS IN ADDITION TO THE UN CONCEALED BELOW FLOOR. CROSS MBER OF CONDUCTORS (#12 AWG - MINIMUM), GROUND WIRE IN ALL CONDUITS IN ADDITION TO VN. DESIGNATIONS: UN CONTERTOP VIED FLUSH IN FINISHED CEILING, D FACEPLATE FINISH TO MATCH CEILING TO CONTENT NUTED NITH ON THE AAND (1) USB TYPE C ADD TO FORTHERWISE TO CENTERLINE OF DEVICE UON TO CENTERLINE OF DEVICE UON TO CENTERLINE OF DEVICE UON TO CENTERLINE OF DEVICE UNN TO E GANGED TOGETHER WHERE APPLICABLE. 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ELECTRICAL DEMOLITION NOTES

1.	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.
2.	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 OF NOT
3.	THE CONTRACTOR SHALL COORDINATE WITH THE TENANT AND/OR BUILDING MANAGEMENT ALL INTERRUPTION OF ELECTRICAL SERVICES WITHIN THE TENANT SPACE AND/OR BUILDING.
4.	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
5	MUST BE REMOVED.
0.	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
6	SHALL BE RESPONSIBLE TO MAINTAIN THESE SERVICES, EQUIPMENT, WIRING DEVICES THAT ARE EXISTING TO REMAIN, WHETHER OR NOT INDICATED ON THE PLANS.
0.	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
7	DEVICE (OR SOURCE IF NO ACTIVE DEVICES REMAIN).
	TELECOMMUNICATIONS VOICE/DATA CABLING, ETC. SHALL BE REMOVED COMPLETE, BACK TO SOURCE, (PANELBOARD, TERMINAL BOARDS, ETC.), INCLUDING ALL BRANCH CIRCUITING. (CONDUCTORS AND CONDUIT). FEEDERS
8	SUPPORTS, JUNCTION BOXES, PULL BOXES, ETC. PROVIDE AND MAINTAIN TEMPORARY ELECTRICAL SERVICES, SUCH AS LIGHTING
0.	AND POWER IN ALL AREAS OF DEMOLITION AND SURROUNDING AREAS NOT IN DEMOLITION FOR THE DURATION OF THE PROJECT. COORDINATE ALL
0	AND/OR LOCAL ELECTRIC UTILITY.
9.	RELOCATED, SHALL BE STORED FOR RE-USE AND RELOCATED TO NEW LOCATION AS INDICATED ON NEW PLAN DRAWINGS. DEVICES SHALL BE
10.	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
11.	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
12.	EQUIPMENT/DEVICES THAT REMAIN ARE TO BE MAINTAINED. ALL CUTTING AND PATCHING OF WALLS, CEILINGS, OR FLOORS THAT ARE DISTUBBED BY DEMOLITION SHALL BE BETLIBNED 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
13.	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
	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
14.	SHALL BE PERMITTED ON THE SITE. IT SHALL BE THE ELECTRICAL CONTRACTOR'S RESPONSIBILITY TO CONDUCT
15	ALL DEMOLITION IN ACCORDANCE WITH OSHA, EPA, AND ALL OTHER APPLICABLE CODES AND REGULATIONS FOR TYPE OF WORK.
15.	ANY AND ALL ABANDONED CONDUIT AND/OR WIRING FOUND DURING DEMOLITION SHALL BE REMOVED BY THE ELECTRICAL CONTRACTOR AT NO ADDITIONAL EXPENSE.
16.	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,
17.	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
18.	ALL DEMOLITION AND MATERIAL REMOVAL OPERATIONS SHALL BE CAREFULLY
19.	RESPONSIBLE FOR HIS SAFE PRACTICES AND OPERATIONS. PROTECTIVE MEASURES SHALL BE TAKEN DURING DEMOLITION TO KEEP THE
20	BUILDING SHELL RESULTING FROM THE DEMOLITION PROCESS SHALL BE PROMPTLY SEALED.
20.	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 SEAL ANT
21.	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.
22.	ALL BELOW SLAB CONDUIT BEING ABANDONED SHALL BE CUT FLUSH WITH FLOOR AFTER CONDUCTOR REMOVAL AND GROUTED FLUSH WITH FINISHED FLOOR.
23. 24	ALL DEMOLITION WORK SHALL BE PERFORMED IN AN ORDERLY FASHION WITHOUT ANY DAMAGE TO EXISTING STRUCTURE AND SYSTEMS. EC. SHALL FURNISH AND INISTALL ADDITIONAL CONDULT AND WIPE AS DECUMPED.
∠+.	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 GENERA CONVEY THE SCOPE OF WORK, AND LIGHTING FIXTURES, DEVICES, CONT PANELBOARDS, EQUIPMENT, ETC. TH ELECTRICAL DRAWINGS OR CALLED EXPLICITLY FIXED BY DIMENSIONS AF NECESSARY TO SECURE THE BEST CO DETERMINED AT THE PROJECT. ALL L ARE SUBJECT TO APPROVAL OF THE ALL DEVICES, EQUIPMENT, FIXTURES, PROPERLY SIZED GROUNDING COND OF THE METALLIC RACEWAY SYSTEM REFER TO MECHANICAL, PLUMBING, LOCATION OF MECHANICAL AND PLU LOCATION OF DISCONNECT SWITCH EQUIPMENT WITH RESPECTIVE CONTR
- WITH THE NEC. REFER TO DIVISION 15 (21, 22 & 23) SF PROTECTION PLANS FOR ADDITIONAL COORDINATION.
- ALL RECEPTACLES SHOWN BACK-TO-I HORIZONTALLY BY 8" MINIMUM.
- WHERE OPEN WIRING METHODS FOR BY THE CONTRACT DOCUMENTS, OW CABLE/CONDUCTOR INSULATION SHA
- (I.E. PLENUM RATED, ETC.) BEING INS BRANCH CIRCUIT CONDUCTOR SIZES FROM THOSE INDICATED ON THE PLA DROP. BRANCH CIRCUITS SHALL BE I SO THAT VOLTAGE DROP BETWEEN T LIMIT OF 3%.
- REGARDLESS OF THE TEMPERATURE ALL CONDUCTOR AMPACITY RATINGS DETERMINED FROM THE 75°C CONDL IN THE NEC TABLES. WHERE EQUIPME TERMINALS/LUGS RATED FOR 60°C, T CONDUCTOR SHALL BE LIMITED TO I IN THE NEC TABLES. THE ELECTRICAL INCREASE THE CONDUCTORS AND C ALL 120V AND 277V BRANCH CIRCUITS NEUTRAL CONDUCTORS. SHARED NE MULTI-CIRCUIT INSTALLATIONS. WHE COMMON RACEWAY, THE AMPACITY
- DERATED & CONDUIT SHALL BE SIZE SHALL MORE THAN SIX (6) CURRENT SINGLE CONDUIT. REFERENCE NEC A 10. ALL CONDUITS SHALL CONTAIN A GR #250.122. IN ADDITION, WHERE AN IS
- REQUIRED, A SEPARATE GROUND CC BE RUN FROM THE PANEL GROUND I CONNECTION OF THE DEVICE. IN NO (CONDUCTOR & ASSOCIATED OUTLE ALLOWED TO CONTACT THE ISOLATE WHERE CIRCUIT CONDUCTORS ARE II VOLTAGE DROP, DERATING, ETC.), TH INCREASED PROPORTIONATELY (ACC THE SIZE REQUIRED BY NEC TABLE #2 ELECTRICAL INSTALLATION REQUIREM
- PROTECTION, SPECIAL SYSTEMS AND BY OTHERS SHALL BE REVIEWED AND PRIOR TO ROUGH-IN. OBTAIN EQUIP INSTALLER/SUPPLIER/CONTRACTOR/C REQUIRED, FOR REVIEW AND COORE WITH ANY DISCREPANCIES FOUND BE EQUIPMENT BEING FURNISHED PRIOF 12. THE ELECTRICAL CONTRACTOR SHAL REQUIRED FOR SERVICING AND TEST
- FURNISHED UNDER HIS CONTRACT. INSTALL ACCESS PANELS. THE ELECT THE SIZE AND LOCATION OF EACH AC GENERAL CONTRACTOR PRIOR TO RO ELECTRICAL CONTRACTOR SHALL INC 13. AND PATCHING ASSOCIATED WITH TH 14. ALL PENETRATIONS IN OR THROUGH WITH THE ELECTRICAL INSTALLATION
- APPROVED METHOD. FURNISH AND IN AND EQUIPMENT SUCH AS BOXES, PL FIXTURES WITH RATED ENCLOSURES PROJECT CONDITIONS. FURNISH AND APPROVED METHOD FOR FIRE STOPF OF STRUCTURE BEING PENETRATED. FIRE RATED STRUCTURES.
- NO CONDUIT, BOXES, WIRING, OR CAR 15. OF THE LOWEST POINT OF THE UNDER THEY BE INSTALLED CONCEALED WIT FOR EXISTING INSTALLATIONS, THE E RESPONSIBLE TO REPLACE AND/OR I WIRING, AND CABLING THAT IS NOT IN ALL ELECTRICAL EQUIPMENT AND DE 16. LISTED. DEVICES, EQUIPMENT, SYST REQUIREMENTS AND MANUFACTURE 17. THE DESIGN INTENT IS ALL DEVICES OTHERWISE NOTED. THE DEVICE BAC SHALL BE RATED TO COMPLY WITH N MOUNTED WITHIN A FIRE RATED WAL UL APPROVED FIRE STOPPING ASSEM RATING OF WALL OR STRUCTURE. WH TO INSTALL A SURFACE MOUNTED DE FOR APPROVAL PRIOR TO INSTALLAT 18. THE DESIGN INTENT IS ALL CONDUIT, SHALL BE CONCEALED FROM SIGHT UNLESS OTHERWISE NOTED. THE CO PATHWAYS BEING FURNISHED SHALL APPLICATION. WHEN THERE IS NO AV CONDUIT, CABLE, RACEWAY OR PATH APPROVAL PRIOR TO INSTALLATION.
- ALL CONDUIT AND CABLING SHALL BI 19. THE NATIONAL ELECTRICAL CODE. F ELECTRICAL CONTRACTOR SHALL BE REWORK EXISTING CONDUIT AND/OR WITH THIS REQUIREMENT. CONTRACTOR SHALL FIELD VERIFY SI 20. TYPE PRIOR TO CUTTING. UNDER NO
- CONTRACTOR CUT A STRUCTURAL F INCHES WITHOUT PRIOR WRITTEN AP NOTIFY ENGINEER OF RECORD OF AN (4") INCHES PRIOR TO PROCEEDING V IN OTHER THAN DWELLING UNITS, AL RECEPTACLES SUPPLIED BY SINGLE OR LESS TO GROUND, 50 AMPERES (BY THREE PHASE BRANCH CIRCUITS 100 AMPERES OR LESS, INSTALLED IN HAVE GROUND-FAULT CIRCUIT-INTER WHERE DEVICE IS READILY ACCESSIB INTEGRAL GROUND FAULT PROTECT ACCESSIBLE AND/OR NOT AVAILABLE PROTECTION, THE BRANCH CIRCUIT BE GROUND FAULT TYPE.

21.

22.

- ANY AND ALL "BUILDING STANDARDS" SHALL BE CONSIDERED AN INTEGRAL PART OF THESE DOCUMENTS AND THE
- DOCUMENTS AND COMPLY WITH ALL REQUIREMENTS AND STANDARDS CONTAINED WITHIN.

ALLY DIAGRAMMATIC, ARE INTENDED TO INDICATE GENERAL ARRANGEMENT OF	
ROLS, ELECTRICAL FIXTURES, MOTORS, IE LOCATIONS OF ALL ITEMS SHOWN ON	
FOR IN THE SPECIFICATIONS THAT ARE NOT RE APPROXIMATE. THE EXACT LOCATIONS	
ONDITIONS AND RESULTS MUST BE OCATIONS OF WORK EXPOSED TO VIEW	
, ETC., MUST BE GROUNDED BY USE OF A	
SHALL ALSO BE MAINTAINED. AND FIRE PROTECTION PLANS FOR EXACT	
IMBING EQUIPMENT. COORDINATE ASSOCIATED WITH EACH PIECE OF	
RACTOR AND INSTALL IN ACCORDANCE	
PECIFICATIONS, HVAC, PLUMBING & FIRE L ELECTRICAL WORK REQUIREMENTS &	
-BACK IN WALLS SHALL BE SEPARATED	
LOW VOLTAGE SYSTEMS ARE PERMITTED	
ALL BE RATED PER NEC FOR ENVIRONMENT	
ANS TO PREVENT EXCESSIVE VOLTAGE	
THE PANEL & THE LOADS DO NOT EXCEED A	
RATING OF THE CONDUCTOR INSULATION, S FOR THIS PROJECT SHALL BE	
JCTOR TEMPERATURE RATINGS INDICATED ENT OR DEVICES ARE PROVIDED WITH	
HE AMPACITY RATING OF THE 75°C IS ASSOCIATED 60°C RATING AS INDICATED CONTRACTOR SHALL BE RESPONSIBLE TO	
ONDUIT SIZE AS REQUIRED. S SHALL BE PROVIDED WITH SEPARATE	
EUTRALS WILL NOT BE PERMITTED FOR ERE MULTIPLE CIRCUITS ARE RUN IN A	
OF THE CONDUCTORS SHALL BE PROPERLY D PER CODE. UNDER NO CIRCUMSTANCES	
ARTICLE AND TABLE 310.15(B)(3)(a).	
OLATED, INSULATED GROUND IS DNDUCTOR WITH GREEN INSULATION SHALL	
BUS TO THE ISOLATED GROUND CASE SHALL THE SYSTEM GROUND	
T BOXES, CONDUIT & BUILDING STEEL) BE D GROUND (CONDUCTOR & DEVICE).	
INCREASED IN SIZE FOR ANY REASON (I.E. IE GROUND CONDUCTOR SIZE SHALL BE CORDING TO CIRCULAR MIL AREA) FROM	
250.122. MENTS FOR ALL HVAC, PLUMBING, FIRE	
OOWNER EQUIPMENT BEING FURNISHED OCOORDINATED WITH OTHER TRADES	
MENT SHOP DRAWINGS FROM OWNER FURNISHING EQUIPMENT, AS	
ETWEEN CONSTRUCTION DRAWINGS AND R TO ROUGH-IN.	
L FURNISH ALL ACCESS PANELS, AS ING, FOR EQUIPMENT AND/OR DEVICES	
THE GENERAL CONTRACTOR SHALL	
OUGH-IN. CLUDE IN HIS BID ALL CUTTING, TRENCHING	
HE ELECTRICAL INSTALLATION. FIRE RATED ASSEMBLIES ASSOCIATED	
I SHALL BE FIRE-STOPPED USING A UL NSTALL UL LISTED FIRE RATED MATERIALS	
, ETC TO COMPLY WITH CODE FOR NINSTALL SI FEVES, WHERE BEQUIRED, UI	
PING SHALL MEET OR EXCEED FIRE RATING REFERENCE ARCHITECTURAL PLANS FOR	
BLES SHALL BE INSTALLED WITHIN 1 1/2"	
HIN METAL-CORRUGATED ROOF DECKING. HIN METAL-CORRUGATED ROOF DECKING.	
REWORK EXISTING CONDUIT, BOXES, N COMPLIANCE WITH THIS REQUIREMENT.	
EVICES FOR THIS PROJECT MUST BE UL EMS SHALL BE INSTALLED PER N.E.C.	
R'S INSTRUCTIONS. SHALL BE RECESSED MOUNTED, UNLESS XK BOX AND RACEWAY BEING EURNISHED	
EC PER THE APPLICATION. WHERE L OR STRUCTURE, FURNISH AND INSTALL	
IBLIES AND MATERIALS TO MAINTAIN HEN THERE IS NO AVAILABLE OPTION BUT	
EVICE, CONSULT ARCHITECT/ENGINEER	
WITHIN THE BUILDING CONSTRUCTION,	
BE RATED TO COMPLY WITH NEC PER THE AILABLE OPTION BUT TO INSTALL A VISIBLE	
HWAY, CONSULT ARCHITECT/ENGINEER FOR	
E PROPERLY SUPPORTED AS REQUIRED BY OR EXISTING INSTALLATIONS, THE RESPONSIBLE TO BEDLACE AND/OR	
CABLING THAT IS NOT IN COMPLIANCE	
LAB ON GRADE FLOOR CONSTRUCTION CIRCUMSTANCES SHALL THE	
LOUR SLAB THICKER THAN FOUR (4") PROVAL FROM ENGINEER OF RECORD. NY SLAB THICKNESS GREATED THAN FOUR	
WITH ANY SAW CUTTING. L 125-VOLT THROUGH 250-VOLT	
PHASE BRANCH CIRCUITS RATED 150 VOLTS DR LESS, AND ALL RECEPTACLES SUPPLIED	
RATED 150 VOLTS OR LESS TO GROUND , I LOCATIONS IDENTIFIED IN 210-8(B) SHALL	
NOTIER PROTECTION FOR PERSONNEL. BLE, THE DEVICE SHALL BE PROVIDED WITH ON, WHERE DEVICE IS NOT READILY	
WITH INTEGRAL GROUND FAULT BREAKER SERVING THE DEVICE(S) SHALL	
" AND/OR "BUILDING" SPECIFICATIONS"	

CONTRACTOR SHALL BE RESPONSIBLE TO OBTAIN A COPY OF THESE

ELECTRICA	L ABBREVIATIONS
A	AMPERES, AMPERAGE
A/C	AIR CONDITIONING
ADA	AMERICANS WITH DISABILITIES ACT
AFCI	ARC FAULT CURRENT INTERRUPTER
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINAL GRADE
AIC	AVAILABLE INTERRUPTING CURRENT
AL	ALUMINUM
ANSI	AMERICAN NAT'L STANDARDS INSTITUTE
ARCH	ARCHITECT, ARCHITECTURAL
AUX	AUXILIARY
AWG	AMERICAN WIRE GAUGE
A/V	AUDIO/VISUAL
BD	BUS DUCT
BKR	BREAKER
BLDG	BUILDING
°C	CELSIUS DEGREES
C	CONDUIT
C/B	CIRCUIT BREAKER
CKT	CIRCUIT
CLG	CEILING
CRI	COLOR RENDERING INDEX
CT	CURRENT TRANSFORMER
CU	COPPER
dB	DECIBEL
DISC,DS	DISCONNECT SWITCH
DWG	DRAWING
EC	ELECTRICAL CONTRACTOR
EF	EXHAUST FAN
ETR	EXISTING TO REMAIN
EMT	ELECTRICAL METALLIC TUBING
EX	EXISTING
EXT	EXTERIOR
°F	FAHRENHEIT DEGREES
FA	FIRE ALARM
FACP	FIRE ALARM CONTROL PANEL
FARA	FIRE ALARM REMOTE ANNUNCIATOR
FPC	FIRE PUMP CONTROL PANEL
FT	FOOT, FEET
GND	GROUND
GC	GENERAL CONTRACTOR
GFI,GFCI	GROUND FAULT CIRCUIT INTERRUPTER
HP	HORSEPOWER
HVAC	HEATING, VENTILATING, & A/C
IBC	INTERNATIONAL BUILDING CODE
IG	ISOLATED GROUND
KVA	KILOVOLT-AMPS
KW	KILOWATTS
KWH	KILOWATT-HOUR
LED	LIGHT EMITTING DIODE
LTG	LIGHTING
MAX	MAXIMUM
MC	MECHANICAL CONTRACTOR
MCA	MINIMUM CIRCUIT AMPACITY
MCB	MAIN CIRCUIT BREAKER
MEP	MECHANICAL, ELECTRICAL, PLUMBING
MFR	MANUFACTURER
MIN	MINIMUM
MISC	MISCELLANEOUS
MOCP	MAXIMUM OVERCURRENT PROTECTION
MTD	MOUNTED
N/A	NOT APPLICABLE
N.C.	NORMALLY CLOSED
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MFR'S ASSOC.
NFPA	NATIONAL FIRE PROTECTION ASSOC.
NIC	NOT IN CONTRACT
N.O.	NORMALLY OPEN
NTS	NOT TO SCALE
O/C	ON CENTER
O/H	OVERHEAD
OBC	OHIO BUILDING CODE
OSHA	OCCUPATIONAL SAFETY & HEALTH ADMIN.
P	POLE
PC	PLUMBING CONTRACTOR
PH,Ø	PHASE
PNL	PANEL
PVC	POLYVINYL CHLORIDE
RCP	REFLECTED CEILING PLAN
REC	RECEPTACLE
RL	REMOVE AND RELOCATE
REQ'D	REQUIRED
REV	REVISION
RM	REMOVE EXISTING
RGS	RIGID GALVANIZED STEEL
RM	ROOM
RTU	ROOFTOP UNIT
SER	SERVICE ENTRANCE RATED
SF	SQUARE FOOT, SQUARE FEET
T/C,TC	TIME CLOCK
THRU	THROUGH
TYP	TYPICAL
UC	UNDERCOUNTER
UG	UNDERGROUND
UL	UNDERWRITERS LABORATORIES, INC.
USB	UNIVERSAL SERIAL BUS
UON	UNLESS OTHERWISE NOTED
UPS	UNINTERRUPTED POWER SUPPLY
VA	VOLT-AMPERE
V	VOLTS, VOLTAGE
W	WATT, WATTS
W/	WITH
WP	WEATHERPROOF
XFMR	TRANSFORMER

Client: City of Elyria 131 Court St - Suite 101 Elyria, Ohio 44035 Project: Public Safety Training Facility Multi-Purpose **Training Area** Garden Street Elyria, Ohio 44035 Revisions: 09.26.2024 For Construction 5039 01 23 Project Number: Drawn by: ACG ACG Checked by: Copyright: 2024

Electrical Symbols, Notes & Abbreviations

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ST- 30 🕀

ST- 30 🕀

ST- 30 🕀

ST- 30 🖨

() ST- 38

- 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 2. RELATED TO THE ELECTRICAL INSTALLATION. COORDINATE DEVICE LOCATIONS WITH FURNITURE AND EQUIPMENT BEING PROVIDED.
- ARCHITECTURAL DRAWINGS HAVE PRIORITY OVER MEP DRAWINGS WITH З. 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 4. INFORMATION. COORDINATE ELECTRICAL CONDUIT, WIRE, LIGHT FIXTURES, DEVICES AND EQUIPMENT LOCATIONS WITH MECHANICAL AND PLUMBING EQUIPMENT.
- PRIOR TO ROUGH-IN, COORDINATE EXACT POWER REQUIREMENTS AND 5. 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 6. GENERAL LIGHTING FOR AREAS OF CONSTRUCTION, AS REQUIRED
 - WHEN MULTIPLE DEVICES ARE ADJACENT TO EACH OTHER, GANG DEVICES TOGETHER WITHIN COMMON COVERPLATE. _____

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

^{Client:} City of Elyria	
131 Court St - Suite 101 Elyria, Ohio 44035	
Project: Public Safety Training Facilit Multi-Purpose Training Area	У
Garden Street Elyria, Ohio 44035	
 Revisions:	
09.26.2024 Ear Constru	uctio
Project Number: 5039 0 Drawn by: ACG Checked by: ACG Copyright: 2024	1 23

Multi-Purpose Training Area Second Floor Power Plan

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										MECHA	NICAL EQUIPMENT ELECTRICAL CONNECTIONS SCHED	JLE								LIGHTING	G FIXTURE SCHEDULE	
				AGE		MCA								COMMENTS			LAMP(S)					
CU	1A 1	208 \	/ 1	41 A	118 VA	20 A	25 A	Motor	BIFICATION	ST	1.3 NEMA 3R 30A/2P DISCONNECT SWITCH	(2)#10 & (1)#10 GND IN 3/4"C		CONNENTS	TY	PE LOAD E	NO. TYPE S	TEMP CF	RI MANUFACTURER	CATALOG NUMBER	DESCRIPTION	FINISH
CU	1B	208 \	/ 1	41	118 VA	20 A	25 A	Motor		ST :	5,7 NEMA 3R 30A/2P DISCONNECT SWITCH	(2)#10 & (1)#10 GND IN 3/4"C			A	42 VA 120 V	LED 6000	4000 K 80	ORACLE LIGHTING	4 OV1R LED 6000L	4' VANDAL RESISTANT LINEAR STRIP. MOUNT TO UNISTRUT.	WHITE
CU	2A	208 \	′ 1	57	782 VA	28 A	30 A	Motor		ST 9	9,11 NEMA 3R 30A/2P DISCONNECT SWITCH	(2)#10 & (1)#10 GND IN 3/4"C								DIM10 MVOLT 40K 85		
	2B	208			782-VA	28 A_	30	Motor		Stand	18.15 NEMA3B-804/8P. DISCONDECT SWITCH	- (2)#10.8-(1)#10.6ND-N.244"6-	<u></u>				\sim	\sim				$\gamma \gamma $
EF	1	120 \	/ 1	62	2 VA	17 A	15 A	Motor	~ ~ ~ ~ ~	ST	31 DIRECT	(2)#12 & (1)#12 GND IN 3/4"C IN	NTERLOCK TO L	OCAL LIGHTING CONTROL		65 VA 120 V	LED 5500	3500 K 80	CURRENT	CBT24-75CS *ELL10	2X4' BACKLIT TROFFER WITH SWITCHABLE LUMENS. PROVIDE WITH EMERGENCY BATTERY	WHITE
ς EF	2	120 \	/ 1	62	2 VA	17 A	15 A	Motor		ST :	31 DIRECT	(2)#12 & (1)#12 GND IN 3/4"C IN	NTERLOCK TO L	OCAL LIGHTING CONTROL		man	man man		- And Marker	had and and and	Aughter and the first and the standard and a	man
C FF	3	120\	/ 1	62	2 VA	17 A	15 A	Motor		ST :	31 DIRECT	(2)#12 & (1)#12 GND IN 3/4"C IN	NTERLOCK TO L	OCAL LIGHTING CONTROL	AVV	472 VAT 120 V		4000 K 80				
لمتحر	i.	1201	- h		THE VA	A	man a		m	- -	MARKAN SOA PLUSED DISCONNECT	12)#128(1)#12GNB1N3/40 PP	ROUDEPATH	AT AND WIRE TO REMOTE THERMOSTAT	·					*O-FMG-I FD		
F	1B	120 \	′ 1	11	116 VA	9 A	15 A	Motor		ST	19 NEMA 1 30A/1P FUSED DISCONNECT	(2)#12 & (1)#12 GND IN 3/4"C PF	ROVIDE PATHW	AY AND WIRE TO REMOTE THERMOSTAT	ER	1 VA 120 V	2 LED	0 K -	COMPASS LIGHTING	CWRD	DUAL HEAD REMOTE EGRESS FIXTURE	GREY
F	2A	120 \	/ 1	16	632 VA	14 A	20 A	Motor		ST 2	21 NEMA 1 30A/1P FUSED DISCONNECT	(2)#12 & (1)#12 GND IN 3/4"C PF	PROVIDE PATHW	AY AND WIRE TO REMOTE THERMOSTAT	EX	2 VA 120 V	LED	ОК	COMPASS LIGHTING	CERRC	THERMOPLASTIC EXIT SIGN WITH RED LETTERS AND CHEVRONS, NI-CAD BATTERY WITH REMO	OTE WHITE
E	Bo-	1201			632×A	140		Motor		St -	28 - NEMA-1 399/18 EUSED DISGONNEGT	19)#18 8-11#12 GNDHN 244"C PF	POVIDE PAILAN	AXAND WHEETO DEMOTETHERMOSIAT							CAPACITY AND SELF TEST/DIAGNOSTIC BUTTON. COORDINATE QUANTITY OF FACES. CHEVRO	ON
W H	1	208 \	Y Y Y Y	25		12 A	15 A	Misc Po		ST Y	33 35 NEMA 1 304/2P EUSED DISCONNECT SWITCH	$(2) \pm 12 \& (1) \pm 12 \text{ GND IN } 3/4^{"C}$									ARROWS AND MOUNTING WITH DRAWINGS.	
X	1	200	'		500 VA				WEI		ELISE SIZE PER NAMERI ATE DETAIL	$(2)^{\#}$ 12 Q (1) [#] 12 Q (10) 10 3/4 C			G	42 VA 120 V	LED 3600	3500 K 80	CUBBENT	MPS 4 40 MW F W FD	4' LINEAR SUSPENDED STRIP WITH ELAT LENS AND MEDIUM DISTRIBUTION. PROVIDE WITH CH	HAIN WHITE
۲ ک	m		u		m	m	سس	h	·····	سر		hunn	mm	hummun						U *ELL14 CSHC	MOUNTING KIT. PROVIDE WITH EMERGENCY BATTERY BACKUP WHERE 'EM' IS INDICATED ON PLANS.	

LIGHTING FIXTURE SCHEDULE NOTES:

1. 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. 2.

THE ELECTRICAL CONTRACTOR SHALL VERIFY ALL CEILINGS TYPES, LUMINAIRE COLORS, LENGTHS, TRIMS, FINISHES, MOUNTING HARDWARE, CONFIGURATIONS AND HEIGHTS OF SUSPENDED LUMINAIRES, ETC. З. 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).

- 4. 5.
- 6.
- 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'. 7.
- 8. AND WATTAGE, AND ALL IN GOOD OPERATING CONDITION.
- FINAL COLOR SELECTION BY ARCHITECT/OWNER AT FIXTURE SUBMITTAL. 9.

10. LENSED FIXTURES SHALL HAVE A MINIMUM OF 0.125" THICK ACRYLIC LENS UNLESS OTHERWISE NOTED.

LIGHTING FIXTURE LEGEND

- FIXTURE TYPE - EMERGENCY/NIGHT LIGHT - CONTROL ZONE XX/EM/NL/x (#'-##") FIXTURE LENGTH - SHADED AREA INDICATES EMERGENCY FIXTURE

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

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

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

Client: City of Elyria

131 Court St - Suite 101 Elyria, Ohio 44035

Project:

Public Safety Training Facility Multi-Purpose Training Area

Garden Street Elyria, Ohio 44035

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Electrical Details and Diagrams

LOAD CLASSIFICATION ABBREVIATIONS:

А	APPLIANCE
С	COOLING
EL	ELEVATOR
Н	HEATING
HVAC	HVAC
K	KITCHEN
L	LIGHTING
М	MOTOR
R	RECEPTACLE
V	VENTILATION
Х	MISCELLANEOUS POWER

GROUND (IF STEEL CONDUIT) EQUIPMENT GROUND BUS

- EQUIPMENT BONDING JUMPER ENCLOSURE GROUND

#2 (CU) MAIN BONDING JUMPER PER NEC 250.102(C)(1) #6AWG MINIMUM

10"x2"x1/4" COPPER GROUND BAR, INSTALL ON TELEPHONE BACKBOARD WITH LISTED STANDOFF INSULATORS PER NEC 250.94

#2 (CU) BONDING JUMPER PER NEC 250.8, 250.96(A), 250.104.

SOURCE (DIRECT CONTACT WITH EARTH FOR 10' OR MORE) PER NEC 250.52(A)(1)

COPPER CLAD STEEL (10'x3/4"), TOP OF ROD 6" BELOW FINISH GRADE (TYP FOR ALL) PER NEC 250.52(A)(5), 250,53(A), 250.53(B)

CLAMPS SUITABLE FOR DIRECT BURIAL (TYP FOR ALL)

Grounding & Bonding Detail 12" = 1'-0"

GROUNDED CONDUCTOR

(NEUTRAL) FROM UTILITY

		La Suppl Ma En	ocation: TRAI ly From: ounting: SUR closure: NEM Notes:	NING / FACE IA 3R	AREA 1	01		Ph	Volts: ases: Wires:	120/2 3 4	08 Wy	e		A. N Ma	I.C. R Jains ains R Bus R	ating: 22K AIC; PER STU Type: MLO ating: 200 A ating: 200 A	JDY		
Notes	СКТ	Circuit	Description	Trip	Poles	Load Class		4	E	3	c	;	Load Class	Poles	Trip	Circuit Description	СКТ	Notes	
	1	CU-1A		25	2	М	2.1	0.7					L	1	20	LTG - 1ST FLOOR	2		
	3								2.1	0.8			L	1	20	LTG - 1ST FLOOR	4		
	5	CU-1B		25	2	М					2.1	0.9	L	1	20	LTG - 2ND FLOOR	6		
	7						2.1	0.7					L	1	20	LTG - 2ND FLOOR	8		
	9	CU-2A		30	2	М			2.9	0.5			R	1	20	REC - 1ST FLOOR	10		
	11										2.9	0.7	R	1	20	REC - 1ST FLOOR	12		
	13	CU-2B		30	2	М	2.9	0.7					R	1	20	REC - 1ST FLOOR	14		
	15								2.9	0.7			R	1	20	REC - 1ST FLOOR	16		
	17	F-1A		15	1	М					1.1	0.5	R	1	20	REC - 1ST FLOOR	18		
	19	F-1B		15	1	М	1.1	0.7					R	1	20	REC - 1ST FLOOR	20		
	21	F-2A		20	1	М			1.6	0.7			R	1	20	REC - 1ST FL CEILING	22		
	23	F-2B		20	1	М					1.6	0.7	R	1	20	REC - 1ST FL CEILING	24		
_	25	AEC - EX	TERIOR	_20_	1	R	0.2	0.5					R	1	20	REC - 2ND FLOOR	26		
	27	EWC		20		R	\sim	\sim	0.1	0.7			R	1	20	REC - 2ND FLOOR	28		
	29	REC-RES	TROOM	20	1	R					0.5	0.7	R	1	20	REC - 2ND FLOOR	30		
	31	LTG-RES	TROOMS	20	1	M; L	0.6	0.7				1	R	1	20	REC - 2ND FLOOR	32		
く	3 3	WH-1	m	20	$\frac{1}{2}$	n de la	\sim	\mathcal{M}	مرم 1.3	0.9			R	1	20	REC - 2ND FLOOR	34		
	35										1.3	0.7	R	1	20	REC - 2ND FLOOR	36		
	37	SPARE		20	1		0.0	0.7					R	1	20	REC - 2ND FL CEILING	38		
	39	SPARF		20	1				0.0	0.7			R	1	20	REC - 2ND FL CFILING	40		
	41	SPARE		20	1				0.0		0.0	0.0		1	20	SPARE	42		
					•	VA:	13	665	159	969	137	71							
_	_		_	_		Amps:	1	14	10	33	11	5]	_					
.oad C	Classi	fication	Connecte	ed Load			D ema	nd Fa	ctor	Estir	nated	Dema	and	Panel Totals					
ighting			3441	VA			100.0	0%			3441	VA							
lotor			25484	1 VA			100.0	0%			25484	I VA			C	Connected Load: 43404	VA		
1isc. F	ower	-	2500	VA			100.0	00%			2500	VA		Esti	mated	Demand Load: 42414	VA		
(ecep	tacle		11980) VA			91.7	4%			10990) VA			Cor	nnected Current: 120 A			

FEEDER NOTES

- 1. ALL FEEDER AND BRANCH CIRCUIT CONDUCTO PLANS AND ONE-LINE DIAGRAM ARE BASED UP COPPER CONDUCTORS, UNLESS NOTED OTHER THE FEEDER SIZE INDICATES ALUMINUM CONDU IF APPROVED FOR USE BY THE OWNER, THE CO FURNISH AND INSTALL ALUMINUM CONDUCTOF
- FOLLOWING: SECONDARY ELECTRIC SERVICE LATERA Α 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 ALLOY).
- 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 9.
- CONDUCTORS. IF ALUMINUM CONDUCTORS ARE UTILIZED. BASED ON THE ABOVE 10.
- 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.

PANELBOARD NOTES:

ALL BREAKERS SHALL BE 20A/1P, HACR RATED, UNLESS OTHERWISE NOTED.

- SWD RATED ARC FAULT
- GFI 5mA FOR PERSONNEL 30mA FOR EQUIPMENT
- SHUNT-TRIP TYPE COMBINATION ARC FAULT/GFI
- LOCK-ON CLIP
- LOCK-ON CLIP WITH RED MARKING REMOTE GFI MODULE MOUNTED ADJACENT TO PANELBOARD
- CIRCUIT ROUTED THROUGH LIGHTING CONTROL PANEL HANDLE TIES FOR MULTIPLEXED CIRCUITS 10.
- NEW BRANCH CIRCUIT USING EXISTING BREAKEF
- NEW CIRCUIT BREAKER IN EXISTING PANEL 12.

One-Line Diagram 12" = 1'-0"

ONE-LINE DIAGRAM NOTES

RS INDICATED ON THE ON THE USE OF RWISE. "(AL)" - WITHIN UCTORS SPECIFIED. INTRACTOR MAY
RS FOR THE
ALS

2

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6.

7.

- 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
- CURRENT CALCULATIONS WITH SHOP DRAWING SUBMITTAL. CONDUCTORS SHALL BE COPPER, UNLESS NOTED OTHERWISE.

THE ELECTRICAL CONTRACTOR SHALL VERIFY ALL POWER

- 4. ALL BUSSING SHALL BE COPPER.
- GROUNDING ELECTRODE SYSTEM CONDUCTORS SHALL BE 5. COPPER.
- 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-8. MOUNTED EQUIPMENT SHALL BE MOUNTED ON 3/4" FIRE RATED BACKBOARD.
- ALL FLOOR-MOUNTED EQUIPMENT SHALL BE MOUNTED ON 4" HIGH 9. 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.
- 12. 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 13. CODE-REQUIRED CLEARANCES.
- REFER TO ELECTRICAL SPECIFICATIONS FOR ADDITIONAL 14. REQUIREMENTS.
- THE ELECTRICAL CONTRACTOR SHALL PROVIDE FINAL SETTINGS 15. 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 16. 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 EQUIPMENT NAMEPLATE PER NEC.
- FEEDER ROUTING IS DIAGRAMMATIC ONLY. ACTUAL ROUTING OF 19. FEEDERS (OVERHEAD OR UNDERGROUND) IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.
- 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 WHICH THE ACTUAL OVERCURRENT DEVICE INSTALLED IN A 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 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 D. 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

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Public Safety Training Facility Multi-Purpose **Training Area**

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Electrical One-Line Diagram & Panel Schedules

