LOCATION PLAN PROJECT LOCATION Silvercreek Russell Township Veterinary Clinic Police Department United States Postal Service Exclusive Pilates John Anthony of Novelty NEO Institute Of Functional Medicine Edgewood Auto Body north bloomfield garadge Kitchen on the Corner Russell Township

BUILDING INFORMATION | LIFE SAFETY PLANS

ADDRESS: 14810 CHILICOTHE RD NOVELTY, OH 44092

BUILDING AREA: 15,679 SF 938 SF AREA OF WORK

USE GROUP: S-1/B (UNCHANGED)

18 OCCUPANTS (50 SF/OCC) OCCUPANCY:

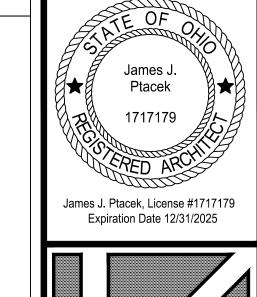
CONSTRUCTION TYPE: 2B (UNCHANGED) NUMBER OF STORIES: 1 (UNCHANGED) SPRINKLED: YES (UNCHANGED) **EXISTING (UNCHANGED)** ROOF LIVE LOADS: EXISTING (UNCHANGED) FLOOR LIVE LOADS:

CODE INFORMATION BUILDING CODE: OHIO BUILDING CODE 2024 MECHANICAL CODE:

OHIO MECHANICAL CODE NFPA 70-2023 **ELECTRICAL CODE: OHIO PLUMBING CODE 2024**

PLUMBING CODE: STRUCTURAL CODE: ASCE 7 2018 **ENERGY CODE:** ASHRAE 90.1 2019; 2021 IECC LIFE SAFETY CODE: OHIO FIRE CODE 2024 ACCESSIBILITY CODE: 2024 OBC CHAPTER 11 ICC A117.1 2009

SCOPE OF WORK DEMOLITION OF EXISTING LOCKERS AND DORMS. REWORK DORMS AND LOCKERS TO NEW LAYOUT





LARSEN ARCHITECTS

12815 DETROIT AVE. LAKEWOOD, OHIO 44107 216-221-2350

PROJECT NO: 24136

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PERMIT:

REVISION 1:

CHECKED BY: JP

GENERAL NOTES

14810 CHILICOTHE RD.

SCALE: NOT TO SCALE

BIDDERS ARE TO VISIT THE SITE AND FAMILIARIZE THEMSELVES WITH EXISTING SITE AND SATISFY THEMSELVES AS TO THE NATURE AND SCOPE OF THE WORK. THE BASE BID SHALL BE AS REQUIRED BY STATE AND LOCAL CODES WHETHER INDICATED OR NOT ON PROJECT DOCUMENTS. THE SUBMISSION OF A BID WILL BE EVIDENCE THAT SUCH AN EXAMINATION AND COMPLIANCE WITH GOVERNING CODES/REQUIREMENTS HAS BEEN MADE. LATER CLAIMS FOR LABOR, EQUIPMENT OR MATERIALS REQUIRED, OR FOR DIFFICULTIES ENCOUNTERED WHICH COULD HAVE BEEN FORESEEN HAD AN EXAMINATION AND CODE REQUIREMENTS/REVIEW BEEN MADE, WILL NOT BE ALLOWED.

BUILDING LOCATION PLAN,

LIMIT USE OF THE PREMISES TO WORK IN AREAS INDICATED. CONFINE OPERATIONS TO AREAS WITHIN CONTRACT LIMITS INDICATED. DO NOT DISTURB PORTIONS OF THE SITE BEYOND THE AREAS IN WHICH THE WORK IS INDICATED.

THE TYPE OF CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF ALL APPLICABLE BUILDING CODES (STATE AND LOCAL) INCLUDING AMENDMENTS AND HEALTH DEPARTMENT REGULATIONS.

CHECK DIMENSIONS AND CONDITIONS IN THE FIELD ALL DIMENSIONS AND CONDITIONS OF THIS JOB SHALL BE FIELD CHECKED BY THE CONTRACTOR DOING THE WORK. ANY DISCREPANCIES SHALL BE REPORTED TO THE OWNER AND ARCHITECT PRIOR TO THE START OF CONSTRUCTION. COSTS DUE TO FAILURE OF REPORTING THESE DISCREPANCIES WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.

CONTRACTOR SHALL STATE IN THE BID PROPOSAL THE AMOUNT TO BE ADDED OR DEDUCTED FROM THE BASE BID FOR EACH OF THE ALTERNATES IF ACCEPTED BY THE OWNER. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO MAKE CERTAIN HIS SUBCONTRACTORS UNDERSTAND THE SCOPE OF EACH ALTERNATE AND TO ASSEMBLE VARIOUS SUBMISSIONS, SUBSTITUTIONS AND ADDITIONS IN SUCH A MANNER THAT THE ADDITION FOR EACH ALTERNATE TAKES ACCOUNT ALL THE TIME AFFECTED, INCLUDING ADDITIONAL WORK IN ONE TRADE NECESSITATED BY ADDITIONS, DEDUCTIONS SUBSTITUTIONS IN ANOTHER'S WORK. NO CONSIDERATION WILL BE GIVEN TO ANY CLAIM FOR EXTRA MONEY ARISING FROM THE CONTRACTOR'S FAILURE TO PROPERLY EXERCISE HIS RESPONSIBILITIES.

THESE DRAWINGS ARE INTENDED TO DESCRIBE AND PROVIDE A FINISHED PIECE OF WORK. THE CONTRACTOR SHALL UNDERSTAND THAT THE WORK HEREIN DESCRIBED SHALL BE COMPLETE IN EVERY DETAIL, NOT WITHSTANDING THAT EVERY ITEM NECESSARILY INVOLVED, IS NOT SPECIFICALLY MENTIONED. THE CONTRACTOR WILL BE HELD TO PROVIDE ALL LABOR AND MATERIALS NECESSARY FOR THE ENTIRE COMPLETION OF THE WORK INTENDED AND DESIRED, AND SHALL NOT AVAIL THEMSELVES OF ANY MANIFESTLY UNINTENTIONAL ERRORS OR OMISSION SHOULD SUCH EXIST SHOULD ANY ERROR OR INCONSISTENCY APPEAR IN THE DRAWINGS, THE CONTRACTOR, BEFORE PROCEEDING WITH THE WORK, SHALL MAKE THEM KNOWN TO LARSEN ARCHITECTS, IN WRITING, FOR PROPER ADJUSTMENT, AND IN NO CASE, SHALL PROCEED WITH THE WORK IN UNCERTAINTY SHOULD ANY DISPUTE ARISE AS TO THE QUALITY OR FITNESS OF MATERIALS OR WORKMANSHIP OR INTERPRETATION OF THE PLANS, THE DECISION WILL REST WITH THE OWNER AND LARSEN ARCHITECTS.

ALL WORK DONE AND ALL MATERIALS FURNISHED SHALL BE IN STRICT ACCORDANCE WITH THESE DRAWINGS AND WHAT IS USUAL, CUSTOMARY, AND STANDARD PRACTICE II CONSTRUCTION OF SIMILAR TYPE. THE CONTRACTOR SHALL GIVE PERSONAL SUPERVISION TO THE WORK, USING THE BEST SKILL AND ATTENTION. THE WORKERS SHALL BE THE PERSONAL REPRESENTATIVE OF THE CONTRACTOR AND ALL DIRECTIONS GIVEN BY THEM SHALL BE AS BINDING AS IF GIVEN BY THE CONTRACTOR.

FINAL ACCEPTANCE: BEFORE REQUESTING INSPECTION FOR CERTIFICATION FOR THE FINAL PAYMENT, THE FOLLOWING MUST BE COMPLETE: SUBMIT FINAL PAYMENT REQUEST WITH WAIVERS OF LIEN. SUBMIT A FINAL STATEMENT, ACCOUNTING FOR CHANGES TO THE CONTRACT SUM. SUBMIT EVIDENCE OF CONTINUING INSURANCE COVERAGE COMPLYING WITH INSURANCE REQUIREMENTS.

THE CONTRACTOR SHALL AT ALL TIMES KEEP THE PREMISES FREE FROM ACCUMULATIONS OF WASTE AND INFLAMMABLE MATERIAL OR RUBBISH CAUSED BY HIS EMPLOYEES AND OTHERS DURING THE PROGRESS OF THE WORK. AT THE COMPLETION OF THE WORK AND BEFORE FINAL ACCEPTANCE, THE CONTRACTOR SHALL, AT HIS OWN EXPENSE, CLEAN AWAY AND REMOVE FROM THE PREMISES ALL DEBRIS, RUBBISH, TOOLS, SCAFFOLDING, SURPLUS MATERIALS, AND EXCESS DEMOLISHED MATERIAL DUE TO HIS OPERATION, AND SHALL LEAVE THE PREMISES AND THE WORK IN PERFECT ORDER AND REPAIR, AND THE WORK SITE BROOM CLEAN AND READY TO USE.

THE CONTRACTOR SHALL PRESENT THE BUILDING TO THE OWNER FOR ACCEPTANCE, CLEAN AND READY FOR OCCUPANCY. ALL GLASS SHALL BE CLEANED AND POLISHED; FLOORS SWEPT BROOM CLEAN, CARPETS VACUUMED. FIXTURES WASHED, WITH ALL LABELS REMOVED, AND EXTERIOR HAND RAKED FREE OF TRASH AND DEBRIS.

COSTS FOR BUILDING PERMITS, LANDFILL TAXES, USE TAX, SALES TAX AND OTHER CHARGES RELATIVE TO CONSTRUCTION OF THIS PROJECT SHALL BE INCLUDED IN THE CONTRACT PRICE.

THESE DOCUMENTS DO NOT INCLUDE THE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY, SAFETY, CARE OF ADJACENT PROPERTIES DURING CONSTRUCTION, COMPLIANCE WITH STATE AND FEDERAL REGULATIONS REGARDING SAFETY, IS AND SHALL BE, THE CONTRACTOR'S RESPONSIBILITY.

THE GENERAL CONTRACTOR SHALL TAKE CARE DURING DEMOLITION & EXCAVATION OF ANY EXISTING UTILITIES. THE NEW UTILITIES (TYING INTO EXISTING STUBBED OUT UTILITIES AS REQUIRED), WILL BE SUPPLIED AND INSTALLED BY THE GENERAL CONTRACTOR OR THEIR SUB

CONTRACTOR IS RESPONSIBLE FOR ANY REPAIR TO EXISTING CONDITIONS, FINISH'S, EQUIPMENT, ETC. AS REQUIRED DUE TO NEW WORK.

CONTRACTOR IS RESPONSIBLE FOR PROJECT SCHEDULE. ANY ADDITIONAL WORK REQUIRED TO MEET THE SCHEDULE INCLUDING OVERTIME, PREMIUM TIME AND OUT OF SEQUENCE WORK IS NOT SUBJECT TO ADDITIONAL FEES.

CONTACT INFORMATION

OWNER: **RUSSELL TOWNSHIP** 8501 KINSMAN RD. P.O. BOX 522 NOVELTY, OH 44072

ARCHITECT: LARSEN ARCHITECTS 12815 DETROIT AVENUE LAKEWOOD, OH 44107 216-221-2350 FAX: 216-221-5670 WWW.LARSENARCHITECTS.COM CONTACT: JIM "JP" PTACEK JPTACEK@LARSENARCHITECTS.COM

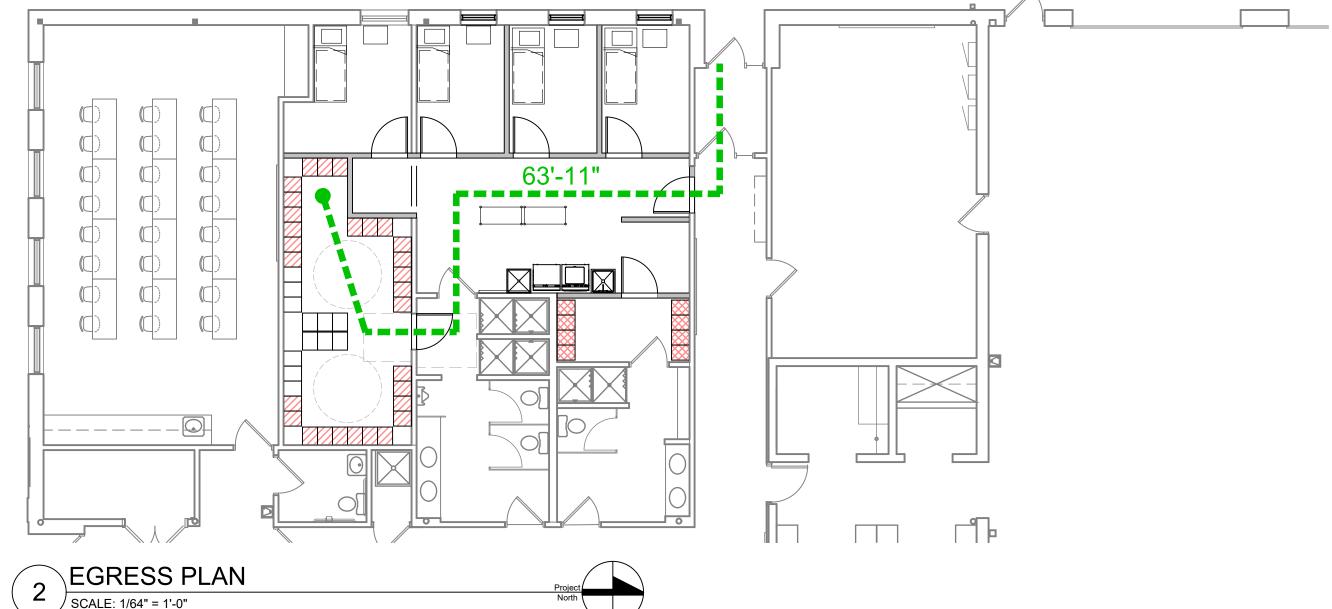
MEP ENGINEER:

TEL:

ELEMENTAL ENGINEERING, LLC 4648 EAST MAPLE AVENUE GENEVA. OH 44041

MOBILE: 216.390.1301 FAX: 440.466.4025 CONTACT: sgala@elementaleng.net

440.466.0087



AREA OF WORK

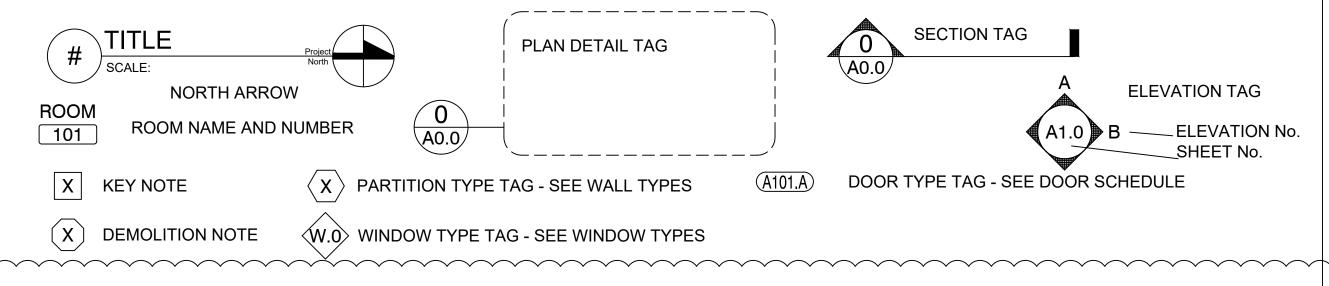
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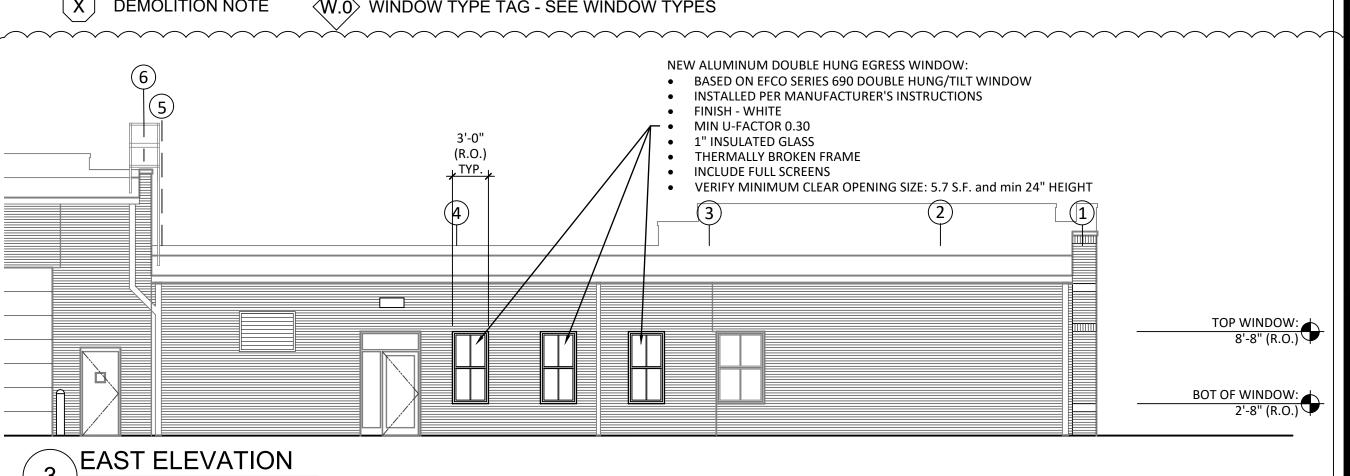
SYMBOL LEGEND

SCALE: 1/8" = 1'-0"

KEY PLAN

SCALE: 1/16" = 1'-0"





HE CONTRACTOR AGREES THAT LARSEN RCHITECTS SHALL BE THE FINAL ETERMINER OF THE SCOPE & INTENT OF THE CONTRACTOR SHALL VERIFY ALL ITE AND NOTIFY THE ARCHITECTS OF ANY CREPANCIES OR OMISSIONS BEFORE

NNING OR FABRICATING ANY WORK SUBSTITUTIONS ARE PERMITTED UNLES PROVED BY THE ARCHITECT PRIOR TO BIL NY WORK PERFORMED IN CONFLICT WITH HE CONTRACT DOCUMENTS OR ANY CODE EQUIREMENTS SHALL BE CORRECTED BY

HE CONTRACTOR AT HIS OWN EXPENSE OTES & DETAILS ON DRAWINGS SHALL TA ECEDENCE OVER GENERAL NOTES AND YPICAL DETAILS. ANY DUPLICATION OR MODIFICATION IS ORBIDDEN WITHOUT PRIOR WRITTEN IISSION FROM LARSEN ARCHITECTS

SHEET NUMBER

TITLE SHEET

stevegala24@gmail.com for **Google** drive transfers

DRAWING SHEETS

GENERAL G1.0 COVER SHEET

ADA ACESSIBILITY DETAILS

D1.0 DEMOLITION PLANS

ARCHITECTURAL A1.0 CONSTRUCTION PLANS

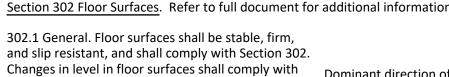
MECHANICAL | PLUMBING M0.1 LEGENDS & SCHEDULES M1.0 DEMO & NEW PLANS

M2.0 SPECIFICATIONS

E1.1 ELECTRICAL PLANS

ANSI Chapter 3 - Building Blocks

For full text of this chapter, see https://bit.ly/A117-3



302.2 Carpet. See full A117.1 text for Carpet requirements. See Figure 302.2.

302.3 Openings. See full A117.1 text for

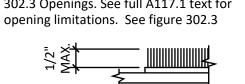
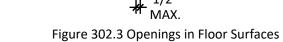
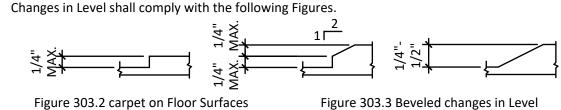


Figure 302.2 Carpet on floor surfaces



Dominant direction of

Section 303 Changes in Level. Refer to full document

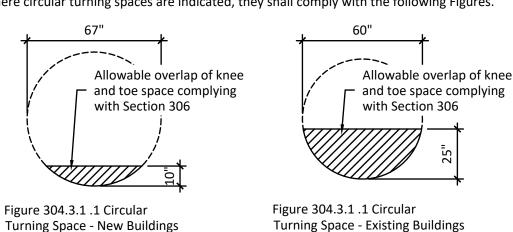


Section 304 Turning Space. Refer to full document

Turning Spaces shall comply with the following Figures

304.3.1 Circular Turning Spaces.

Where circular turning spaces are indicated, they shall comply with the following Figures.



304.3.2.1 T-Shaped Turning Spaces - New Buildings.

Turning Space - New Buildings

Where T-shaped turning spaces are indicated, they shall comply with 304.3.2.1 or 304.3.2.2 below

304.3.2.1.1 Turning spaces shall be permitted to include knee and toe space complying with Section 306 in either the base or one arm of the turning space (shown shaded below)

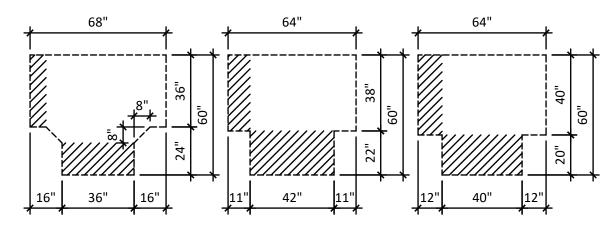


Figure 304.3.2.1(A) Option 1 Figure 304.3.2.1(B) Option 2 Figure 304.3.2.1(C) Option 3

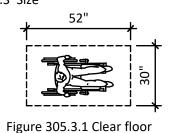
304.3.2.2 T-Shaped Turning Spaces - Existing Buildings

304.3.2.2.1 Turning spaces shall be permitted to include knee and toe space complying with Section 306 in either the base or one arm of the turning space (shown shaded below).

Section 305 Clear Floor Space. Refer to full

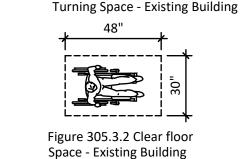
Turning Spaces shall be provided and shall be the size indicated below.

305.3 Size



Space - New Building

305.7 Acoves.



36"

Figure 304.3.2.2 T-Shaped

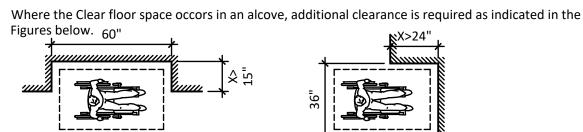
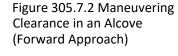
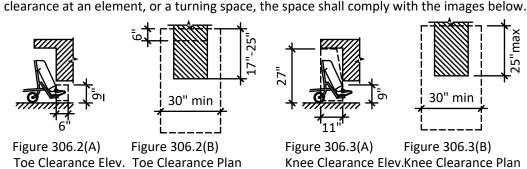


Figure 305.7.1 Maneuvering Clearance in an Alcove (Parallel Approach)



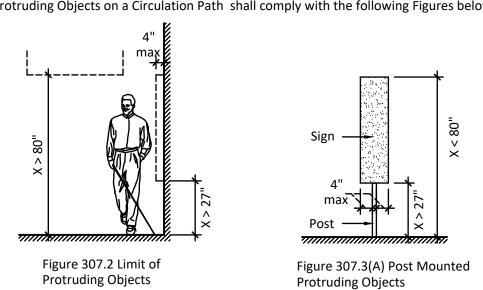
Section 306 Knee and Toe Clearance. Refer to full document

Where space beneath an element is included as part of the clear floor space at an element,



Section 307 Protruding Objects. Refer to full document

Protruding Objects on a Circulation Path shall comply with the following Figures below



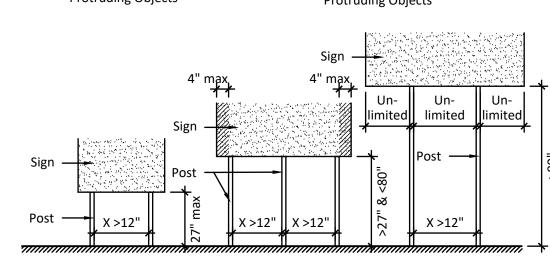


Figure 307.3(B) Post Mounted Protruding Objects

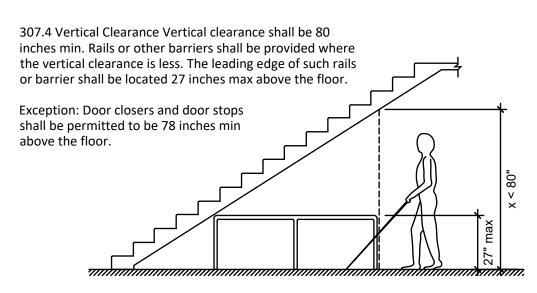
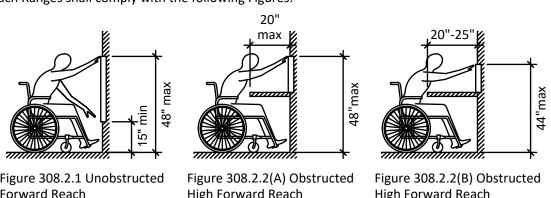


Figure 307.4 Reduced Vertical Clearance

Section 308 Reach Ranges. Refer to full document

Reach Ranges shall comply with the following Figures.



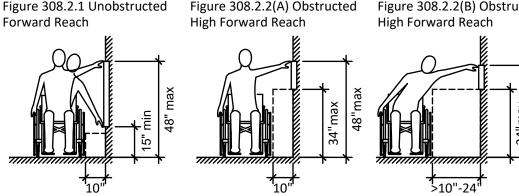


Figure 308.3.1 Unobstructed Figure 308.3.2(A) Obstructed Figure 308.3.2(B) Obstructed High Side Reach

ANSI Chapter 4 - Accessible Routes

For full text of this chapter, see https://bit.ly/A117-4

Section 402 Accessible Routes. Refer to full document for additional information.

402.2 Accessible routes shall consist of one or more of the following components: walking surfaces with a running slope not steeper than 1:20, doors and doorways, gates, ramps, curb ramps excluding the flared sides, blended transitions, elevators and platform lifts. All components of an accessible route shall comply with the applicable portions of A117.1.

High Side Reach

402.3 Revolving doors, revolving gates and turnstiles shall not be part of an accessible route.

Section 403 Walking Surfaces. Refer to full document

Figure 403.5.1(A) Clear Width of an

Accessible Route - New Buildings - Interior

403.3 Slope. The running slope of walking surfaes shall not be steeper than 1:20. The cross slope shall not be steeper than 1:48.

403.5.1 The clear width of an interior accessible route shall be 36 inches min. The clear width of an

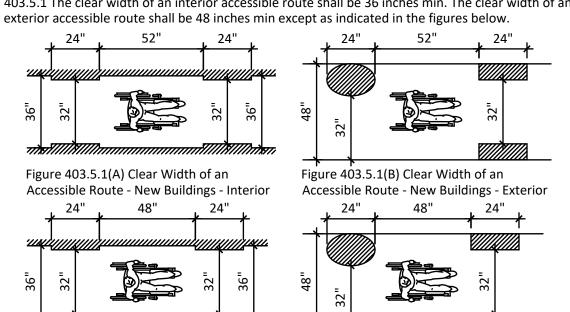
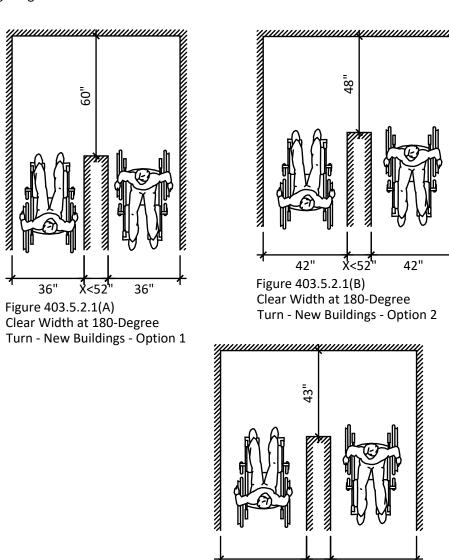


Figure 403.5.1(B) Clear Width of an

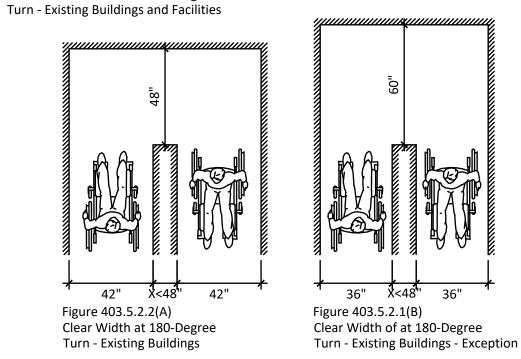
Accessible Route - New Buildings - Exterior

403.5.2.1 Clear Width at 180-degree Turn - New Buildings. Where an accessible route makes a 180-degree turn around an object that is less than 52 inches in width, the clear widths approaching the turn, during the turn and leaving the turn, shall comply with one of the following images.

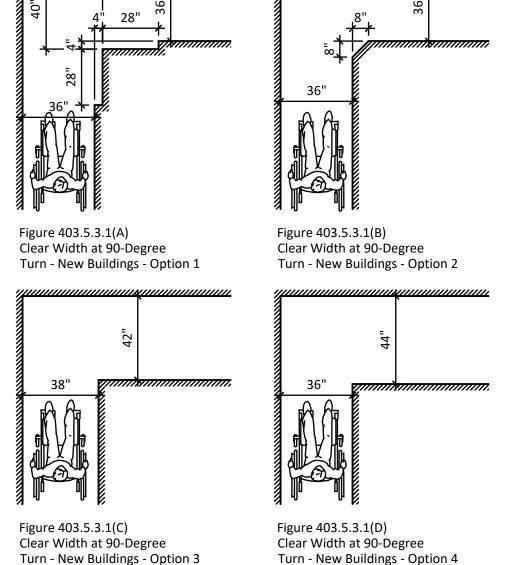


X<52"

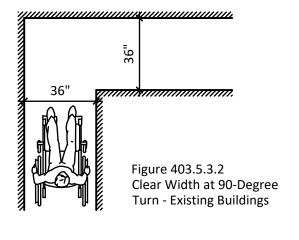
Figure 403.5.2.1(C) Clear Width at 180-Degree Turn - New Buildings - Option 3 403.5.2.2 Clear Width at 180-degree



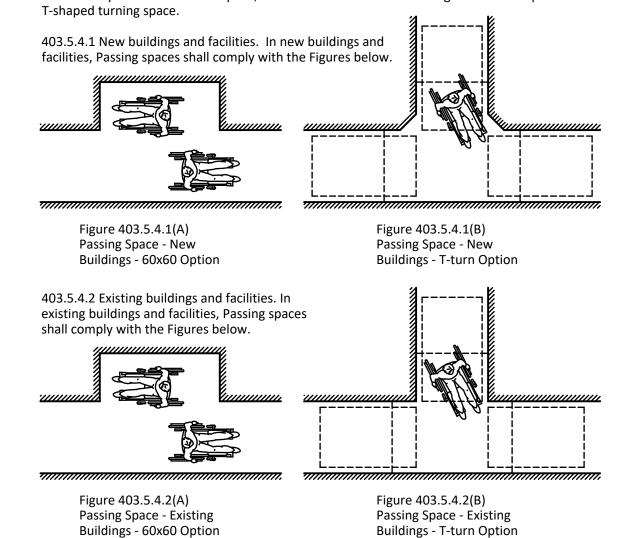
403.5.3.1 Clear Width at 90-degree Turn - New Buildings and Facilities. In new buildings, where an accessible route makes a 90-degree turn, the clear widths approaching and leaving the turn shall meet the dimensions indicated in the figures below.



403.5.3.2 Clear Width at 90-degree Turn - Existing Buildings and Facilities. In existing buildings, where an accessible route makes a 90-degree turn, the clear widths approaching and leaving the turn shall meet the dimensions indicated in the figure below.



403.5.4 Passing Space. An accessible route with a clear width less than 60 inches shall provide passing spaces at intervals of 200 feet maximum. Passing spaces shall be either a 60-inch minimum by 60-inch minimum space, or an intersection of two walking surfaces that provide a



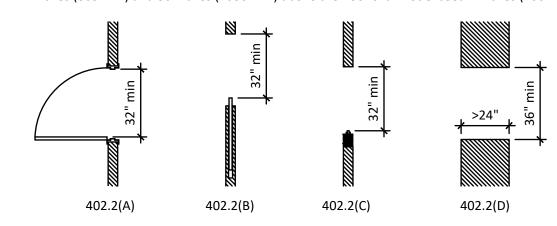
Section 404 Doors, Doorways, and Gates. Refer to full document

404.1 General. Doors, doorways and gates that are part of an accessible route shall comply with Section 404 except Doors, doorways and gates designed to be operated only by security personnel shall not be required to comply with Sections 404.2.3, 404.2.6, 404.2.7, 404.2.8, 404.3.1, 404.3.2, 404.3.4, 404.3.7 and 404.3.8.

404.2 Manual doors, doorways and manual gates. Manual doors, doorways and manual gates intended for user passage shall comply with Section 404.2.

404.2.1 Double-leaf doors and gates. At least one of the active leaves of doorways with two leaves shall comply with Sections 404.2.2 and 404.2.3.

404.2.2 Clear width. Doorways shall have a clear opening width of 32 inches (815 mm) minimum. Clear opening width of doorways with swinging doors shall be measured between the face of door and stop, with the door open 90 degrees. Openings more than 24 inches (610 mm) in depth at doors and doorways without doors shall provide a clear opening width of 36 inches (915 mm) minimum. There shall be no projections into the clear opening width lower than 34 inches (865 mm) above the floor. Projections into the clear opening width between 34 inches (865 mm) and 80 inches (2030 mm) above the floor shall not exceed 4 inches (100 mm).

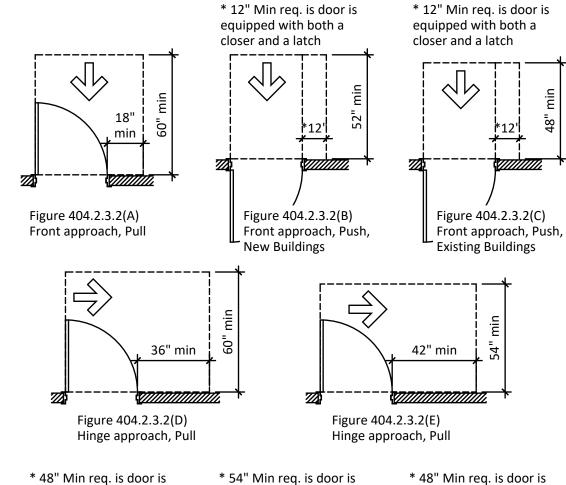


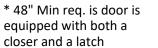
Figure(s) 402.2 Clear Width of Doorways

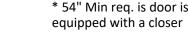
404.2.3 Maneuvering clearances. Minimum maneuvering clearances at doors and gates shall comply with Section 404.2.3. Maneuvering clearances shall include the full clear opening width of the doorway and the required latch-side or hinge-side clearance.

404.2.3.1 Floor surface. The floor surface within the maneuvering clearances shall have a slope not steeper than 1:48 and shall comply with Section 302.

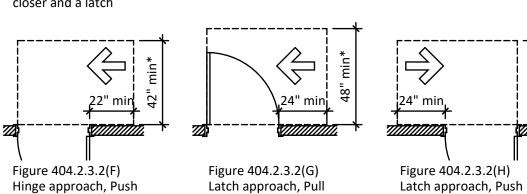
404.2.3.2 Swinging doors and gates. Swinging doors and gates shall have maneuvering clearances complying with Figures 404.2.3.2(A-H)



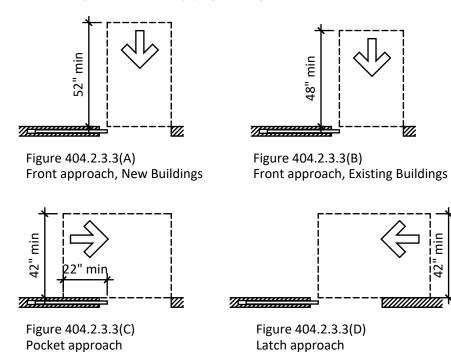




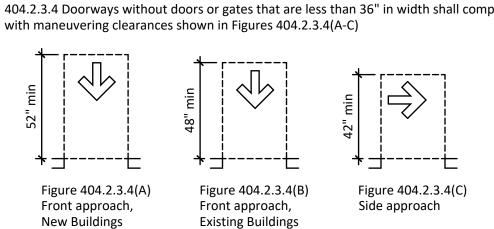
* 48" Min req. is door is equipped with a closer



404.2.3.3 Sliding and Folding Doors. Sliding and Folding Doors shall maintain Maneuvering Clearances complying with Figures 404.2.3.3(A-D)

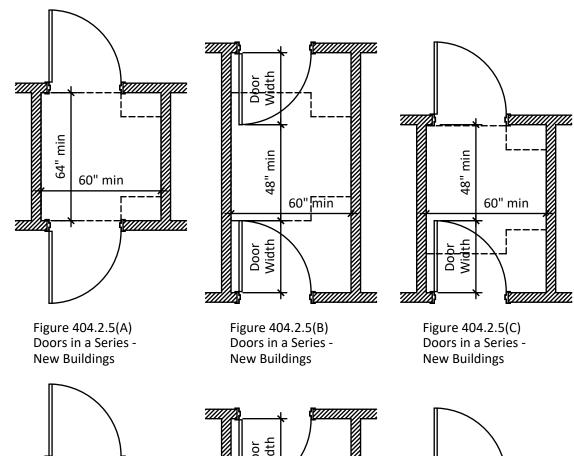


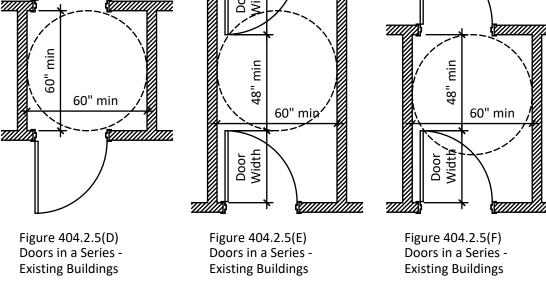
404.2.3.4 Doorways without doors or gates that are less than 36" in width shall comply



404.2.3.5 Recessed doors and gates. Where any obstruction within 18 inches of the latch side of a doorway projects more than 8 inches beyond the face of the door or gate, measured perpendicular to the face of the door or gate, maneuvering clearances for a forward approach shall be provided.

404.2.5 Two doors or gates in series. Distance between two hinged or pivoted doors or gates in series shall be 48 inches minimum plus the width of any door or gate swinging into the space. The space between the doors and gates shall provide a turning space. See Figures 404.2.3.5(A-F)





404.2.6 Door and gate hardware. Handles, pulls, latches, locks and other operable parts on doors and gates shall have a shape that is easy to grasp with one hand and does not require tight grasping, pinching or twisting of the wrist to operate. The operational force to retract latches or disengage devices that hold the door or gate in a closed position shall be as follows: 1; Hardware operation by a forward, pushing or pulling motion: 15 pounds maximum and 2; Hardware operation by a rotational motion: 28 inch-pounds maximum.

404.2.6.1 Hardware height. Operable parts of such hardware shall be 34 inches minimum and 48 inches maximum above the floor. Where sliding doors are in the fully open position, operating hardware shall be exposed and usable from both sides.

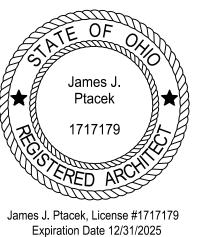
404.2.7 Closing speed. Door and gate closing speed shall comply with 404.2.7.

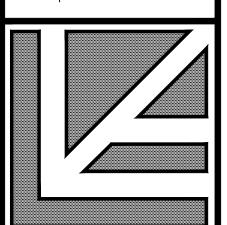
404.2.7.1 Door and gate closers. Door and gate closers shall be adjusted so that from an open position of 90 degrees, the time required to move the door or gate to an open position of 12 degrees shall be 5 seconds minimum.

404.2.7.2 Spring hinges. Door and gate spring hinges shall be adjusted so that from an open position of 70 degrees, the door or gate shall move to the closed position in 1.5 seconds

404.2.8 Door and gate opening force. Fire doors and doors or gates required to be equipped with panic hardware, break away features or other factors requiring higher opening force for safety reasons shall have the minimum opening force allowable in scoping provisions adopted by the appropriate administrative authority. For other doors or gates, the force for pushing or pulling open doors or gates shall be as follows:

1. Interior hinged door: 5.0 pounds maximum. 2. Sliding or folding door: 5.0 pounds maximum.





LARSEN **ARCHITECTS**

> LAKEWOOD, OHIO 44107 216-221-2350

12815 DETROIT AVE.

PROJECT NO: 24136

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DRAWN BY: BB CHECKED BY: JP

ISSUE PERMIT: 2025.08.29 **REVISION 1:** 2025.10.31

THE CONTRACTOR AGREES THAT LARSEN

RCHITECTS SHALL BE THE FINAL TERMINER OF THE SCOPE & INTENT OF THESE DRAWINGS.

THE CONTRACTOR SHALL VERIFY ALL SITE AND NOTIFY THE ARCHITECTS OF ANY DISCREPANCIES OR OMISSIONS BEFORE EGINNING OR FABRICATING ANY WORK

> NO SUBSTITUTIONS ARE PERMITTED UNLES APPROVED BY THE ARCHITECT PRIOR TO BIL

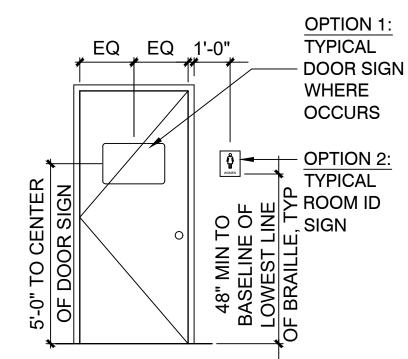
NY WORK PERFORMED IN CONFLICT WITH THE CONTRACT DOCUMENTS OR ANY CODE REQUIREMENTS SHALL BE CORRECTED BY THE CONTRACTOR AT HIS OWN EXPENSE NOTES & DETAILS ON DRAWINGS SHALL TAK

RECEDENCE OVER GENERAL NOTES AND

TYPICAL DETAILS. ANY DUPLICATION OR MODIFICATION IS ORBIDDEN WITHOUT PRIOR WRITTEN PERMISSION FROM LARSEN ARCHITECTS

SHEET NUMBER

ACCESIBILITY SHEET



NOTES:

- 1. DOOR SIGN: SHALL BE CENTERED ON DOOR & MOUNTED 60" ABOVE THE FLOOR (W/ADHESIVE ONLY CAULK EDGES W/CLEAR SILICONE) @ THE CENTER OF THE SIGN.
- 2. ROOM SIGN: RAISED & BRAILLED CHARACTERS & PICTORIAL SYMBOL SIGNS (PICTOGRAMS). LETTERS & NUMERALS SHALL BE RAISED 1/32", UPPERCASE, SANS SERIF OR SIMPLE SERIF TYPE, & SHALL BE ACCOMPANIED WITH GRADE 2 BRAILLE. RAISED CHARACTERS SHALL BE 5/8" HIGH MIN, 2" HIGH MAX.
- 3. FINISH CONTRAST: THE CHARACTERS & BACKGROUND OF SIGNS SHALL BE EGGSHELL, MATTE, OR OTHER NON-GLARE FINISH.

3 TYPICAL ADA COMPLIANT SIGN DETAILS
SCALE: N.T.S

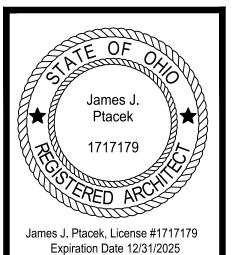
DEMOLITION KEY NOTES

- CB REMOVE EXISTING ELEVATED CMU LOCKER BASE CONST., LEVEL TO EXISTING CONCRETE FLOOR. PREPARE EXPOSED SUBSTRATE TO RECEIVE NEW FLOOR FINISH.
- CE REMOVE CEILING GRID AS NECESSARY FOR NEW WALLS
- D REMOVE EXISTING DOOR
- W REMOVE WALL WHERE INDICATED ON PLAN.
 COORDINATE WITH NEW WORK
- REMOVE PORTION OF WALL SYSTEM AT WINDOW LOCATIONS. SHORE NEW WINDOW OPENING AS NEEDED IN PREPARATION FOR NEW LINTELS.
- FN REMOVE FURNITURE. CONFIRM WITH OWNER IF IT IS TO BE DISPOSED OF OR SAVED.
- CA CAREFULLY REMOVE CABINETRY AND SAVE FOR REUSE. STORE PER OWNER'S INSTRUCTION.

- L RELOCATE EXISTING LIGHT FIXTURE TO NEW LOCATION
- M REMOVE/REWORK EXISTING
 DIFFUSERS/RETURNS PER NEW CEILING PLAN
 2/A1.0. SEE HVAC PLAN
- PL REWORK EXISTING PLUMBING TO CONNECT AT NEW EQUIP LOCATIONS. SEE PLUMBING DRAWINGS.
- RE RELOCATE EXISTING EQUIPMENT TO NEW LOCATION. SEE PROPOSED PLAN FOR LOCATION. CONFIRM WITH OWNER.
- SL REMOVE PORTION OF EXISTING SLAB AS REQUIRED TO INSTALL NEW PLUMBING FIXTURES

NOTE: REMOVE EXISTING FINISHES IN AREA OF WORK. SEE NEW FINISH SCHEDULE ON SHEET A1.0

INDICATES WALL PARTITION DEMOLITION

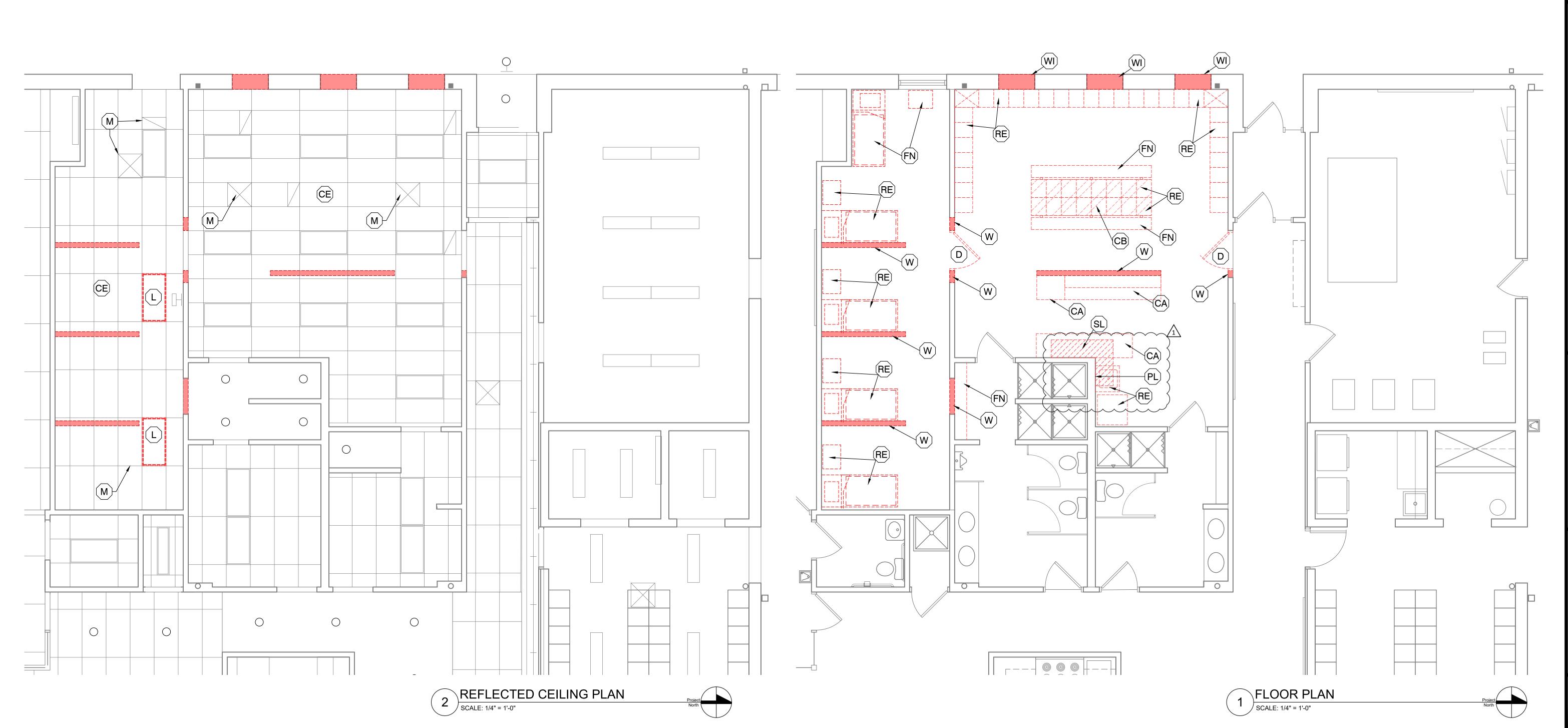




ARCHITECTS

12815 DETROIT AVE. LAKEWOOD, OHIO 44107 216-221-2350

PROJECT NO: 24136



FIRE DEPTARTMENT

RUSSELL TOWNSHIP FIRE DEPT.

14810 CHILICOTHE RD.

NOVELTY, OH 44072

DRAWN BY: BB
CHECKED BY: JP
ISSUE

PERMIT: 2025.08.29
REVISION 1: 2025.10.31

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SHEET NUMBER

D1.0
DEMOLITION PLAN

KEY NOTES — EXTEND GYP. BOARD ON ONE SIDE TO STRONG-TIE "HTC4" UNDERSIDE OF ROOF **ROOM FINISHES:** DOOR SCHEDULE AND HARDWARE NEW CALL INDICATOR LIGHT BY OWNER. CONDUIT AND JUNCTION BOX BY E.C. STRUCT. MEMBER OR STUD SPANNING CONT. TOP PLATE BOTTOM CHORD @ 4'-0" O.C. **GENERAL NOTES: HARDWARE SETS:** LATERAL - CONT. 2X FIRESTOPPING AT EXTENT OF FINISHES LISTED BELOW APPLY TO ALL AREAS WITHIN BRACING TO BACKUP (TYP) PROVIDE ONE(1) DOMESTIC SPRINKLER HEAD IN STRUCT. ABOVE THE PROJECT SCOPE. METAL STUD PARTITION TYPE: EACH SLEEPING ROOM. SEE MEP DWG **100A | 101A | 102A | 103A:** ROOMS A, B, C & D @ 4-0" O.C. , FINISHES ARE SPECIFIED AS A BASIS-OF-DESIGN, AND - 1-1/2 PR HINGES MAY BE SUBSTITUTED WITH EQUAL ALTERNATES. ADA / ANSI 117.1 COMPLIANT WALL MOUNTED 1/2" GYP BD, 1/2" - ADA COMPLIANT SURFACE CLOSER BASED ON EFCO SERIES 690 DOUBLE HUNG/TILT SPACING: 16" O.C. CEMENT BOARD OR 5 5 PENDING APPROVAL BY THE ARCHITECT. TACTILE EXIT SIGN - 1 WALL STOP STUD GUAGE: PLYWOOD BACK • ALL SUBSTRATES RECEIVING NEW FINISHES SHALL BE LOAD BEARING: 18 GASKETING EACH SIDE AS WALL MOUNTED SIGN TO INDICATE: MAXIMUM 18 OCCUPANTS • INSTALLED PER MANUFACTURER'SINSTRUCTIONS CLG AS PREPARED AS REQUIRED BY THE MANUFACTURER. NON-LOAD BEARING: 20 INDICATED ON FINISH SCHEDULED - THRESHOLD (ADA COMPLIANT) FINISH - WHITE SCHED (TILE BEHIND **OCCUPANTS** - ADA COMPLIANT PRIVACY LOCKSET (always allows • MIN U-FACTOR 0.30 HOODS, EXTEND 18" WOOD STUD PARTITION TYPE: **FLOORING** MIN. PAST HOODS). security and free egress). ALL PARTITIONS TYPE 'A' UNLESS 1" INSULATED GLASS JOHNSONITE SOLID COLOR RUBBER FLOOR TILE, NOTED OTHERWISE NEW WIRE SHELVES PROVIDED BY OWNER - 42x18x54 THERMALLY BROKEN FRAME TEXTURE: FLAGSTONE **104A:** COMMON ROOM INCLUDE FULL SCREENS A'' = 2x4COLOR: SELECTED BY ARCHITECT FROM EM NEW EMERGENCY LIGHTING AND EXIT SIGN - 20 MIN. RATED DOOR AND FRAME "A1"= 2x4 W/ SOUND BATT INS. VERIFY MINIMUM CLEAR OPENING SIZE: 5.7 S.F. (24" BOTTOM 12" QE MFR'S FULL LINE "B" = 2x6- 1-1/2 PR HINGES **CLEAR HEIGHT OPENING)** BACKUP TO BE "B1"= 2x6 W/ SOUND BATT INS. **WALL BASE** - ADA COMPLIANT SURFACE CLOSER CEMENT BOARD AT NEW WINDOW OPENINGS, PROVIDE NEW 4x4x3/8" SCHEDULED "C" = 2x8 RELOCATED LIGHTS - SEE ELECT. DWG. JOHNSONITE BASE WORKS THERMOSET RUBBEF - MIN. 1/2" - 1 WALL STOP "C1"= 2x8 W/ SOUND BATT INS. STEEL ANGLE LINTEL FOR BRICK WITH 6" BEARING EA. ABOVE SLAB (TYPE **TS**) - GASKETING SIDE. PROVIDE L-HEADER (OR EQUAL) FOR STUD HEIGHT: 4" *EQUIVALENT LIGHT GAUGE METAL STUDS ALSO ACCEPTABLE LO LOCKERS - THRESHOLD (ADA COMPLIANT) GROUTED SOLID FRAMING AT NEW OPENING. PROVIDE SOLID ANCHOR TO MATCH EXISTING AS CLOSE AS - ADA COMPLIANT STORE ROOM LOCKSET (always INTERIOR PARTITION TO STRUCTURAL JAMBS. MAINTAIN CAVITY AIR SPACE. POSSIBLE FROM MFR'S FULL LINE STUD SPACING: 16" O.C. **NOTE**: PROVIDE CONCEALED STRUCTURAL WALL unlocked from egress side). PROVIDE CONT. FLASHING AND WEEP HOLES. **WALL PAINT** SCALE: 3/4" = 1'-0" BLOCKING AT ALL LOCKER LOACTIONS. SHERWIN WILLIAMS ZERO V.O.C. INTERIOR REWORKED SUPPLY / DRAIN. PROVIDE LAUNDRY **105A:** MEN'S LOCKER ROOM LATEX PAINT BOX AT 48" A.F.F. SEE PLUMBING DRAWINGS NEW FULL HEIGHT FLOOR MOUNTED METAL - 1-1/2 PR HINGES ONE PRIMER COAT (Promar 200) LOCKERS BY PENKO PRODUCTS OR EQUAL. - ADA / ANSI 117.1 COMPLIANT SURFACE CLOSER E3 REWORKED ELECTRICAL FOR LAUNDRY **GENERAL DOOR NOTES:** TWO FINISH COATS (SuperPaint) CONTACT: ADAM LEMKE (757) 814-3088; GASKETING FINISH: EGGSHELL Adam.Lemke@pencoproducts.com ADA COMPLIANT STORE ROOM LEVER LATCH ELECTRICAL DRAWINGS. COLOR: SELECTED BY ARCHITECT **CEILINGS:** MATCH NEW DOOR, FRAME & HARDWARE FINISHES TO RELOCATED EXISTING FULL HEIGHT LOCKERS, **106A: WOMEN'S LOCKER ROOM** MB NEW WALL MOUNTED BROOM / MOP HOLDER AS CLEAN AND REUSE EXISTING ACT CEILING AND FLOOR MOUNTED - 1-1/2 PR HINGES **EXISTING ADJACENT INSTALLATIONS** SELECTED BY OWNER. SUSPENSION GRID. BRACE AND REINFORCE ADA / ANSI 117.1 COMPLIANT SURFACE CLOSER GRID, AS REQUIRED, AROUND NEW WALL VERIFY ALL NEW HARDWARE KEYING REQUIREMENTS RELOCATED EXISTING SHORT HEIGHT LOCKERS, - 1 WALL STOP INDICATES NEW WALL PARTITION SEE 3/A1.0 LOCATIONS. WALL MOUNTED, OPEN BELOW WITH OWNERSHIP GASKETING THRESHOLD (ADA COMPLIANT) ADA COMPLIANT STORE ROOM LOCKSET (always 7'-6" 7'-6' unlocked from egress side). WS \bigcirc CL CL **ROOM A ROOM B** ROOM C ROOM D 102 CL [101] 103 CL (101A) (103A) 100A 102A COMMON E1 104 /+/ 104A 5'-8" EXISTING WIFI BROAD-CASTER TO REMAIN **LOCKERS** 105 24'. WOMEN'S

NEW MECHANICAL DIFFUSERS - SEE MECH. DWG. FOR DUCTWORK MODIFICATIONS RE RELOCATED EQUIPMENT NEW RECESSED CEILING MOUNTED SPEAKER BY OWNER. CONDUIT AND JUNCTION BOX BY E.C. WS NEW ALUMINUM DOUBLE HUNG EGRESS WINDOW:

LOCKERS

(NOTE: RELOCATE EXISTING SIGNAGE)

FLOOR PLAN

5'-9

James J. Ptacek 1717179 FRED James J. Ptacek, License #1717179

Expiration Date 12/31/2025

LARSEN **ARCHITECTS**

EQUPMENT. PLACE OUTLETS AT 48" AFF. SEE 12815 DETROIT AVE. LAKEWOOD, OHIO 44107 216-221-2350

 $\underline{/1}$

CONTRACTOR TO VERIFY

ELECTRICAL AND FIRE PANEL LOCATIONS FOR

WORK THAT REQUIRES

PANEL ACCESS. SEE **ELECTRICAL DRAWINGS**

MECHANICAL

ROOM

120

 $\sim\sim\sim\sim$

PROJECT NO: 24136

Ш FIR $\overline{\geq}$ NSHIP THE RD 44072 ШD

DRAWN BY: BB CHECKED BY: JP

IRE

PERMIT: 2025.08.29 REVISION 1: 2025.10.31

RUSSELL 14810 CHI NOVELTY,

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PROPOSED PLAN

10'-8"

 \bigcirc

NOTE: BRACE EXISTING ACT CEILING GRID ON EACH SIDE OF NEW WALL PARTITIONS,

EXTENDING TO STRUCTURAL DECK. SEE DETAIL 3/A1.0

REFLECTED CEILING PLAN

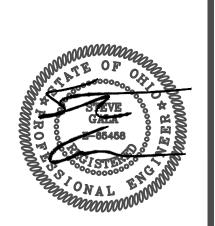
HVAC LEGEND ABBREVIATION DESCRIPTION return or exhaust duct supply duct turning vanes volume damper ___ existing ductwork <u>____</u> existing ductwork to be removed **Z**____S 3 sensor _UCD → undercut door airflow direction indicates square duct 12" wide by 4" tall 12/4 indicated an 8" round duct connect to existing cte exhaust grille exhaust air 69 electrical contractor exhaust fan existing to remain mechanical contractor mc outside air plumbing contractor return air remove existing rex supply grille or diffuser supply air 82 typical typ typical of three typ-3

-77 -	1,7,51841 81 1111 88						
PLUMBING LEGEND							
ABBREVIATION	DESCRIPTION						
── ₩──	shut off valve						
	existing piping						
	existing piping to be removed						
E	remove to point and cap						
	remove to point for reconnection						
CO •	clean out at floor						
	floor drain/sink						
	branch piping off bottom						
─	branch piping off top						
6	pipe drop						
	pipe rise						
———CW———	cold water piping						
——G——	7-14" water column pressure gas piping						
——НW——	hot water piping						
SAN	sanitary sewer piping						
— — SAN— —	sanitary sewer piping below floor						
V	vent piping						
cte	connect to existing						
CM	cold water (domestic)						
dn	down						
ec	electrical contractor						
etr	existing to remain						
hw	hot water (domestic)						
	lavatory						
lb	laundry box						
lt	laundry tub						
mb	mop basin						
mc	mechanical contractor						
рс	plumbing contractor						
гех	remove existing						
typ	typical						
tур-3	typical of three						

	PLUMBING FIXTURE SCHEDULE								
_	designation	description	mounting	hw	CW	san	vent	model	fixture
	b-l	laundry box	wall	1/2"	1/2"	2"	1-1/2"	oatey quadtro single lever washing machine outlet box, single lever hammer ball valve, 2" drain, faceplate, side brackets, 3.4"x3.8" tall (3.73" beep)	
	lt-1	laundry tub	floor	1/2"	1/2"	1-1/2"	1-1/2"	florestone model 20fm, one piece molded tub, heavy duty legs, integral molded drain, soap dish, 20 gallon capacity, 20"x24"x35"	faucet: chrome plated brass, deck mounted, 4" centers, 6" tubular swing spout, 3" vr lever handles, garden hose threaded outlet, delta commercial 27c4363
	mb-l	mop basin	floor	1/2"	1/2"	3"	1-1/2"	florestone model 80/81/82/83, one piece terrazzo, 12" deep, 32"x32", integral molded cast brass drain with strainer, provide model fitting project application	faucet: chrome plated brass, wall mounted threaded spout, bucket hook, vacuum breaker, wall brace, cast brass 4" vr lever handles, delta commercial 28c8182

remarks

- 1. refer to specifications.
- refer to acchitectural plans for all mounting heights.
 all plumbing fixtures shall have final approval by owner.
 provide all stops, escutcheons, traps, hangers, etc. for complete working installation.
 connection sizes are as designated unless indicated other wise on plans.





12815 DETROIT AVE, LAKEWOOD, OHIO 44107 216-221-2350

PROJECT No: 25118

TARTMENT WNSHIP FIRE DEP

2025.08.29 2025.10.31

DRAWN BY: CHECKED BY:

Issued for Permit:

Permit:

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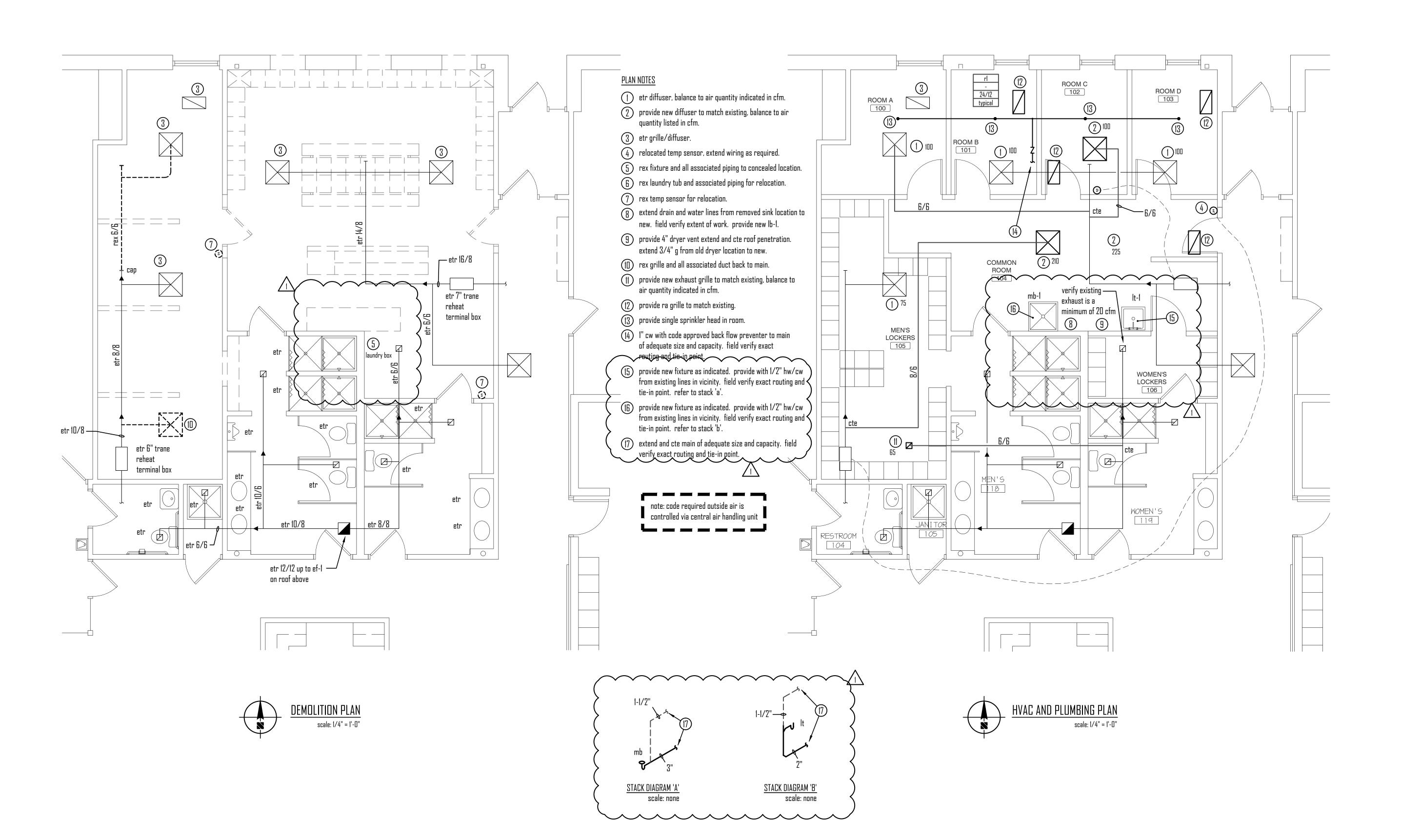
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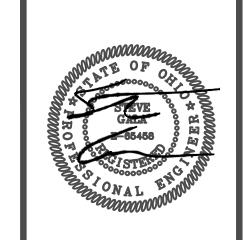
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SHEET NUMBER

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elemental engineering Ilc







12815 DETROIT AVE, LAKEWOOD, OHIO 44107 216-221-2350

PROJECT No: 25118

ARTMENT
ASHIP FIRE DEP

DRAWN BY: CHECKED BY:

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DEMO & NEW PLANS

SECTION 15010 - GENERAL PROVISIONS

Part 1 General

1.1 Description

- a. the provisions of the instructions to bidders, general conditions, supplementary conditions, alternates, addendas and division I are a part of this specification. electrical, architectural, structural and all other drawings as well as the specifications for all the divisions are a part of the contract documents. all drawings and specifications are intended to be supplementary to each other.
- documents are provided for the negotiation of a guaranteed maximum price. as such, they are not considered to be complete or all inclusive. provide all materials, equipment, components, services, controls, wiring, tools, power, transportation. hoisting, permits, labor, etc. as required for a complete and operational facility whether these components and labor may not be indicated or implied. items implied or omitted, but necessary, to make all systems complete and workable shall be understood to be part of the work.
- c. each contractor shall coordinate with the building owner as to individual building standards and requirements. individual contractors shall include any additional items or change of design to meet or exceed building standards and requirements.
- the contractor shall be responsible for coordinating all equipment locations, components and connections prior to setting of equipment or accessories. changes arising due to lack of coordination or knowledge of field conditions shall be corrected at the contractor's expense. extra costs that may arise as a result of deviation from contract drawing to avoid interference's shall be considered a field condition. no additional compensation shall be allowed. interferences shall be immediately brought to the architect/engineer's attention.
- visit the work site during the bidding period and become familiar with the conditions affecting the installation. submission of a proposal shall presume knowledge of such conditions and no additional compensation shall be allowed where extra labor or materials are required.
 - f. items and such labeled as "by others" shall become the responsibility of the general contractor. the general contractor shall then be responsible to coordinate the work such that it is accounted for in the bid to the client. If no general contractor exists then it shall become the responsibility of the trade whose equipment/work/installation is affected most by it.
 - . it is the purpose of the drawings to indicate the approximate location of all equipment, piping, etc. determine exact locations of equipment and arrange work accordingly. the right is reserved to effect reasonable changes in the location of equipment, piping, etc., up to the time of roughing-in, without additional cost to the owner. in addition, this contractor shall coordinate his work with all other trades and utilities before commencing such work.

1.2 Permits and Code

- a. secure and pay for permits and inspections required for the work. make payments to all public utilities SECTION 15050 BASIC MATERIALS AND METHODS for work required by the utility, including tap-in fees. it is the contractor's responsibility to make all contacts with the proper utilities and perform all application requirements to obtain any service.
- install work in accordance with all applicable provisions of local and state codes, as well as the nfpa as 1.1 Pipe and Fittings interpreted by the local authority having jurisdiction. comply with the latest editions of ashrae and smacna standards.

Part 2 Execution

2.1 Equipment and Material

- warrant that equipment and all work is installed in accordance with good engineering practice and that all equipment will meet the requirements specified. guarantee against defects in workmanship and materials; provide labor and repair or replace any defective work, material or equipment within one year from date of formal written acceptance by the owner.
- base bids upon the specified products or listed alternatives. the drawings and specifications are based on the products specified by type, model and size and thus establish minimum qualities which substitutes must meet to qualify for review. verbal requests or approvals shall not be binding on the architect, engineer or owner. should materials and equipment other than those specified be proposed, submit a written request for substitutions to the architect in accordance with division 1 requirements. indicate any additions or deductions to the contract price. the contractor is to bear the cost of any approved changes for installation and shall coordinate this change with all other trades.
- equipment and materials used on this project shall be new and ul labeled (as required) for the
- install and connect equipment, services and materials in accordance with the best engineering practice and with various manufacturers written instructions and recommendations. where manufacturers written instructions and engineered drawings differ in the method of installation, the contractor shall inform the engineer of such discrepancy prior to the start of such work. furnish and install complete auxiliary piping, valves, water seals, electric connections, supports, safety devices, etc., recommended by manufacturer for proper installation.

2.2 Field Requirements

- a. plan work to permit the carrying on of normal business functions unless specified otherwise on drawings. any service shutdowns that may be required shall be scheduled through the owner and shall be done at a time as directed by the owner. no additional compensation shall be allowed for these shutdown periods even though premium-time work may be required. provide temporary service to equipment or systems that cannot be shutdown, as determined by owner. provide a minimum of one week's notice to the owner before any service shutdown is scheduled.
- at all times keep premises and building in neat and orderly condition; follow explicitly any instructions of architect in regard to storing of materials, protective measures and disposing of debris.
- provide all cutting and patching in existing construction as necessary for installation of this work. have cutting done by skilled mechanics in the trade. this shall be done carefully as to not injure any of the structure, as little material as possible will be removed. in no case shall reinforced steel be cut without 1.2 written permission from the architect. building and surface damage shall be repaired, replaced and/or restored to the original condition before the completion of the project and before final acceptance by
- any core drilling or cutting of fire rated floors, shafts and walls shall be fire stopped prior to finish patching. all penetrations shall be sealed in accordance with ul fire resistance directory, volume ii, and shall be rated to match the fire rating of the floors, shafts or walls penetrated. contractor shall coordinate with architects floor plans for all fire rated walls/floors/ceilings/shafts/etc and provide all materials to properly fire rate each penetration. no additional compensation shall be rewarded for lack
- e. all cutting, patching, sealing, etc. of roofing system shall be performed by mechanics skilled in the trade, utilizing industry proven and accepted methods of construction. verify with building owner prior to the start of work if a warranty is still in effect for the roof system. if such warranty is still in effect the contractor shall be required to coordinate with the company carrying the warranty to maintain said warranty.
- any discrepancies between what is shown on the drawings and what is actually in the field shall be brought to the architect's attention before the contractor is to proceed with that portion of the work.

- certificates of inspection shall be delivered free of charge to the architect by this contractor before final payment, showing that all work and materials under this contract do fully meet the requirements and approval of the inspection department of the proper authority. no extra compensation will be allowed for any changes necessary for code compliance regardless of the installation shown on the drawings or specified herein.
- where a return air plenum exist, materials exposed within that return air plenums shall be noncombustible or shall have a flame spread index of not more than 25 and a smoke-developed index of not more than 50 when tested in accordance with astm e 84.

2.3 Testing and Balancing

- test piping for leaks; repair leaks in copper tubing by sweating out joints, thoroughly cleaning both tube and fitting, and resoldering; correct leaks in screwed joints by replacing thread or fitting or both. provide chemical cleaning for all piping systems with approved detergent.
- provide services of a certified a.a.b.c. test agency. conduct all tests in accordance with associated air balance council standards. test and adjust air handling system to within ten percent of design requirements. provide three copies of the balance report when finished. one for the owner and two shall be submitted to the architect.

2.4 Record Drawings

- keep one complete set of the contract working drawings on the project site on which the contractor shall record any deviations or changes from such contract drawings made during construction. after the project is completed, record sets of drawings shall be delivered to the architect in good condition, as a permanent record of the installation as constructed.
- record drawings shall be utilized only for such and shall be kept clean and undamaged.

2.5 Renovation Project

- a. demolition of existing equipment is a part of this work and shall be performed such that new work as indicated may be installed.
- all occupied areas of building shall remain free from odors, fumes, dust and smoke generated from installation of material and equipment. provide temporary ventilation and/or filtration systems of sufficient size and quantity to ensure complete removal of all airborne contaminants generated. provide temporary partitions and air seals to prevent the migration of airborne contaminants from unoccupied areas to occupied areas.
- within areas being renovated, where plastic piping already exists in return air paths or plenums, it shall be replaced or encased with code approved material. materials exposed within that return air plenums shall be non combustible or shall have aflame spread index of not more than 25 and a smoke-developed index of not more than 50 when tested in accordance with astm e 84.

- domestic water type 'l' hard copper or wirsbo aquapex tube or equal that meets astm f876 and f877, and is certified to nsf standards 14 and 61. underground piping shall be type 'k' hard drawn seamless copper tube (astm b88).
- natural gas schedule 40 black steel. (interior), schedule 40 black steel pvc coated (exterior). all gas piping materials, components, installation, inspection, and purging shall be in full conformance with afpa 54 "national gas code" and the international fuel gas code. contractor shall also utilize tracpipe flexible gas piping by omega flex (interior) or tracpipe ps (underground).
- fittings for gas piping: 150 wsp malleable iron screwed fittings through 4 inch size, factory formed welding fittings for sizes over 4 inch. all gas piping materials, components, installation, inspection, and purging shall be in full conformance with nfpa 54 "national gas code" and the international fuel gas code. fittings for tracpipe shall be as approved by manufacturer.
- fittings for copper pipe: wrot copper solder joint type with 95-5 solder, except for refrigerant piping where silver brazing alloy shall be used.
- soil, waste, vent, and drain piping (above ground interior) no-hub cast iron pipe and fittings. provide neoprene gasket (astm c-564) and stainless steel clamp assembly (astm a-888), 3 inches wide for pipe 1-1/2 to 4 inches, 4 inches wide for pipe sizes 5 to 10 inches and 5-5/8 inches for pipe sizes 12 and 15 1.3 Ductwork inches. shields shall be type 304 stainless steel and have a minimum thickness of 0.015 inches. provide worm drive clamps of type 304 stainless steel. clamp-all products model hi-torg 125 and hi-torg 80. where permissible by code, schedule 40 pvc solid core dwv (astm d 2665) may be substituted for above soil, waste, vent and drain piping. all piping located within the confined walls of a kitchen including under floor sanitary to a distance of twenty feet downstream shall not be pvc.
- building sewers and drains "underground" storm and sanitary sewers to 5'-0" outside building walls shall be service weight cast iron, bell and spigot, soil pipe, and fittings. provide neoprene gasket (astm c-564) and stainless steel clamp assembly (astm a-888), 3 inches wide for pipe 1-1/2 to 4 inches, 4 inches wide for pipe sizes 5 to 10 inches and 5-5/8 inches for pipe sizes 12 and 15 inches. shields shall be type 304 stainless steel and have a minimum thickness of 0.024 inches. provide worm drive clamps of type 304 stainless steel. clamp-all products model hi-torq 125. where permissible by code, schedule 40 pvc solid core dwv (astm d 2665) may be substituted for underground soil, waste, and storm piping.
- plastic piping shall not be installed in areas being used as return air plenums or paths. in areas being renovated where plastic piping already exists in return air plenums or paths, it shall be replaced or encased by code approved material.
- grooved or mechanically sealed "engineered" piping systems shall be permissible at the engineers discretion. written approval shall be obtained prior to start of work with the requesting contractor providing a written statement indicating type, make and manufacturer of system, increase or decrease in project cost and any effect on the project timeline.

- all valves shall be of the same manufacturer where possible and shall be as manufactured by grinnell, milwaukee, nibco, stockham, hammond or watts. all valves shall be of domestic manufacturer.
- shutoff valve in water piping two inch and smaller: bronze ball valve, minimum 150 psig swp, 600 wog, milwaukee ba-150 or approved equal. valves used for balancing shall be equipped with memory stop. pvc valve shall be full port all pvc construction with 150 psi working pressure at 73 degrees fahrenheit water temperature with a maximum service temperature of 140 degrees fahrenheit, socket or threaded ends, epdm seals, nibco 4660 series, watts or approved equal.
- shutoff valve for natural gas piping two inch and smaller: ball valve, 150 psi wsp, 600 psig wog, csa and ul rating for natural gas, full port, full flow, bronze body, stainless steel ball and stem, ptfe seat and seal, 2.3 Piping watts model b6000 series or approved equal.

a. provide unions at all equipment, specialty connections and where indicated on plans for ease of maintenance and removal.

1.4 Dielectric Fittings

a. provide dielectric connections between copper and ferrous metal piping materials in all systems.

1.5 Inserts, Hangers, Supports and Sleeves

a. provide inserts into concrete construction for proper support of work.

- provide all inserts, hangers, anchors, rollers, double lock nut, threaded rod, turnbuckles, saddles, insulation protectors, guides and all other miscellaneous specialties to properly support and retain piping, ductwork, conduits and equipment; to control expansion, contraction, anchorage, drainage and prevent sway and vibration. piping shall be so supported as not to place a strain on valves or equipment. 1.1 Fixtures
- trapeze support may be utilized for multiple pipe runs.
- d. do not support work from another divisions or same work.
- hanger spacing shall be per code or manufacturer's requirements, which ever is more stringent.
- provide added structural steel angles, channels or plates where support is required between building

structural steel spans. attach such by welding, bolting or anchors.

- where pipes pass through masonry or concrete walls, provide machine cut steel pipe sleeve 1 inch larger than outside diameter of pipe. where floors or walls are core drilled, steel sleeves are not required. where pipes are insulated provide a sleeve large enough for insulation to pass thru. pipe shall be <u>centered in sleeve.</u>
- h. provide fire stopping where pipes pass thru fire rated structure so as to maintain fire rating of

Part 2 Execution

2.1 General

- where utilizing tracpipe flexible gas piping by omega flex, the contractor shall be responsible for the complete redesign of distribution system. including but not limited to pipe sizes, gas pressures, piping runs, and clearance coordination. provide pressure regulators where required and install system per manufacturer's recommendations. all equipment connection details shall be adhered to as shown on drawings.
- install valves such that their operation is easily accessible. ball valves with handles in the open position shall be pointing in the direction of flow.
- provide pipe caps or plugs as required to keep dirt, dust and debris from entering pipe and equipment.
- I. arrange piping to maintain service and maintenance clearances of all equipment.

SECTION 15250 - INSULATION

Part 1 Products

1.1 General

- all insulation material (insulation, iackets, adhesives, cements, mastics, sealers coatinos and finishes) shall have composite fire and smoke hazard ratings as tested under procedure astm e-84, nfpa 255 and ul 723, not exceeding a flame spread rating of 25 and smoke developed rating of 50.
- provide insulation products as manufactured by owens-corning, armstrong or knauf. adhesives shall be 2.1 General benjamin foster or equal.

the following pipe systems shall be insulated with owens-corning fiberglass 25: asj/ssl-11 heavy density pipe insulation. thickness of insulation shall be as noted.

<u>service</u>	pipe size	insulation thickness	
domestic cold water	all sizes	1/2"	
domestic hot water	2" and smaller	["	

- within a return air plenum system, insulate concealed supply air ductwork, outdoor air intake ductwork and roof drain sumps with owens-corning all service faced duct wrap type 100, 1-1/2" thick.
- ductwork located within an attic space shall be insulated with owens-corning all service duct wrap, type 75, 3 inch thick, r-10. ductwork with interior lining shall be insulated with owens-corning all service faced duct wrap, type 100, 2" thick.

Part 2 Execution

- a. install all products in accordance with manufacturer's written instruction, recommendations, and this specification. the workmanship shall be first class and all joints shall be made tight, smooth and even.
- b. all insulation shall be installed over clean dry surfaces. insulation must be dry and in good condition. wet or damaged insulation will not be acceptable. no insulation shall be applied prior to installation of heat trace tape, painting, or pressure test completion of the respective piping systems.
- install all insulation continuous thru all wall, ceiling and countertop openings, sleeves, pipe hangers, etc. except through fire rated wall and floors. where insulation is exposed to moisture or damage it shall be adequately protected.

2.2 Ductwork

- faced duct wrap shall be wrap tightly around ductwork with all joints overlapped a minimum of two inches. adhere insulation to sheet metal with four inch strips of insulation bonding adhesive at a minimum of even eight inches. ductwork wider than twenty four inches, insulation along the bottom edge 2.3 Sanitary/Storm Drainage and Vent Piping shall be additionally secured with mechanical fasteners at less than every eighteen inches. tape all penetrations, punctures or tears in facing with kraft tape.
- rigid insulation shall be secured to ductwork by impaling insulation onto welded pins located at a maximum of every twelve inches. secure utilizing self locking caps. seal all insulation joints with five inch wide pressure sensitive joint sealing tape.

2.4 Renovation Project

- insulate valve bonnets, unions, strainers on domestic water, chilled water, and refrigerant piping.
- insulate all valves and fitting to match adjacent piping.
- where existing asbestos insulation is discovered or suspected notify the building owner immediately so it

- can be removed under a separate "asbestos removal contract" direct with the owner
- repair existing pipe, duct and equipment insulation where removed; to make new connections, to add temperature controls, or where damaged by new construction. insulation shall be the same as specified

SECTION 15410 - PLUMBING FIXTURES

Part 1 Products

- a. for fixture specification refer to drawings. listed model number and manufacturer for each individual item shall be the basis of design and determine standard of quality whether each requirement is indicated or not.
- provide all required components for proper and complete operation of fixtures.

Part 2 Execution

2.1 Installation

- a. provide all stops, traps, escutcheons, connections, flush valves, carriers, etc., for all fixtures as necessary to complete the installation of each fixture, whether such items are listed or not.
- b. contractor shall coordinate fixture rough-in dimensions with gc.
- c. refer to architectural plans for all mounting heights.
- d. clean all fixtures removing stains, labels, packing material, etc..

SECTION 15430 - PLUMBING PIPING AND EQUIPMENT

Part 1 Products

Water Hammer Arrestor

a. water shock absorbers to be furnished and installed on all domestic waterlines where required per the 2.2 Damper plumbing code or where indicated on drawings. locate and size absorbers at locations recommended by manufacturer. pdi approved and listed, asse 1010 approved. watts series 15 or approved equal.

1.2 Gas Pressure Regulator

a. spring loaded, general purpose, self-operating service regulator which includes an internal relief type diaphragm assembly and vent valve. as a code b31.8 for temperatures from minus twenty degrees fahrenheit to 160 degrees fahrenheit. spring case vent with removable cover. internal relief out of spring case for exhaust of excessive outlet pressure. cast iron body, aluminum case, nitrile rubber o-rings disc and diaphragm, composition gaskets.

1.3 Additional Items

a. listed model number and manufacturer for each individual item shall be the basis of design and determine standard of quality whether each requirement is indicated or not.

Part 2 Execution

- a. the pipe runs shown are approximate and diagrammatic in nature. exact location to be determined by this contractor to suit field conditions. conceal all piping in walls, pipe chases, above ceilings, below grade, etc. unless indicated otherwise.
- the plumbing contractor to verify the locations and elevations of all existing utilities at the tie in points in coordination with the general contractor. should the new system arrangement need to be reconfigured in order to tie into the existing conditions, the plumber shall do so at his expense in order to make a functional system.
- all piping, fittings and equipment to be new.
- for additional plumbing equipment refer to drawings.

2.2 Domestic Water Supply

- install water pipes and equipment as indicated on drawings with hot and cold water supplies to all fixtures and equipment. final connection to all plumbing equipment by pc. pitch all water piping to drainage points, provide hose end drain valves at such points.
- provide water hammer arrestor at all quick closing valve locations. (ie washing machine, dishwasher, ice machine, etc..)
- c. provide pressure reducing valves for all specialized equipment as required.
- d. contractor shall provide back flow prevention devices for dishwashers, ice makers, washing machines, coffee makers, etc., and where required by code. assembly shall be as approved by code and manufactured by the watts regulator company. models sd-3, n9, 7, or approved equal.
- e. new or repaired potable water systems shall be purged of deleterious material and disinfected prior to use, per plumbing code requirements.
- water supply sterilization shall be that as prescribed by the health authority or water purveyor having jurisdiction. in the absence of a prescribed method and a chlorinated municipal water supply the procedure shall be as described. flush out system first then hold solution of 50 ppm of chlorine in the 3.3 Grilles and Diffusers system water for a period of 24 hours. drain system then flush again. after flushing again, chlorine residual shall not be in excess of 0.5 ppm at widely spaced check points. chlorination procedures shall conform to awwa c651 or awwa c652 specifications and be acceptable to the local health department. repeat chlorination, if necessary, until acceptable.
- connect to existing water main as indicated on plan. exact location to be determined in field.

- a. all drainage piping 2-1/2 inch or less shall be sloped at a minimum pitch of 1/4 inch per foot where piping 3 inch or larger shall be sloped at a minimum pitch of 1/8 inch per foot or per plumbing code table 704.1. all horizontal vent piping shall be sloped back toward plumbing fixture being served.
- run all drainage and vent piping as direct as possible. actual location of drains, soil, waste, and storm piping shall meet the various building conditions. do any work necessary to conceal piping or clear piping and ductwork of other trades.

2.4 Natural Gas Piping

- c. provide service and connect to all equipment requiring natural gas within project scope. install a full size dirt leg with a minimum length of four inches, shutoff valve and union prior to all equipment and reduction to equipment connection size.
- provide pressure reducing valve and vent where required.

e. connect to existing gas service at meter. provide new meter if required by utility company. coordinate exact location in field. verify with utility company if main from street to building is adequate to support new load. provide new main if not adequate.

SECTION 15800 - AIR DISTRIBUTION

Part 1 Materials

1.1 General Ductwork

- a. the contractor shall construct ductwork/plenums such that they meet or exceed the most stringent requirements between the mechanical code and the latest edition of smacna standards.
- b. exposed round ductwork in architecturally sensitive areas shall be constructed of a four ply spiral lock seam with smooth interior. larger diameters shall incorporate corrugations to increase rigidity. where ductwork is to be painted, construct duct from paint grip phosphorous coated steel.

1.2 Flexible Ductwork

- a. type 3b r8 insulated for supply and return air ducts from low to high pressure applications.
- b. type ni-35 non-insulated for exhaust ducts from low to high pressure applications.
- c. class 1 air duct, mechanical lock, none adhesive, ul 181, flame spread rating of 25 or less, smoke developed rating of 50 or less, r-8.0.
- d. as manufactured by flexmaster or equal as manufactured by Atko.

Part 2 Equipment

2.1 Grille and Diffuser

- a. provide with factory applied white powder coated finish, unless noted otherwise.
- b. as manufactured by price industries or titus are acceptable.

- a. provide manual volume dampers where indicated on drawings or where necessary to properly balance air flow. provide damper at take-off from main serving individual grilles, diffusers or outlets and where main duct splits to serve multiple outlets from each leg of the split.
- provide remote control damper for all volume dampers installed in inaccessible locations and all required accessories. as manufactured by young regulators, walsh pulsator, metropolitan air technologies, or zipset systems.

2.3 Miscellaneous

a. any equipment not included within specifications, minimum design characteristics shall be based upon unit or model scheduled or indicated on drawing. It remains at the engineers discretion as to what is considered an equal.

Part 3 Execution

3.1 General

- a. furnish and install all materials, rigging, transportation, installation, etc., to provide, a complete and operable heating, ventilating and air conditioning system.
- b. all equipment shall be installed in a neat and workmanlike manner, according to manufacturer's recommendation and good practice. all work is to be coordinated with other trades prior to the start of
- install all equipment requiring an electrical connection in such a manner so that proper clearance is
- provided for servicing per national electrical code. d. contractor shall be responsible for rebalancing all existing equipment to connected air quantity, provide service to existing equipment to ensure proper operation. include new belts and filters. clean units and
- heat exchangers. straighten all coil fins and check operation. e. materials shall be in new and in perfect condition when installed, and be protected from injury until final acceptance of the system. interior of all ducts to be smooth, air tight, and free from obstruction with

continuously sealed joints. 3.2 Ductwork

- a. construct all joints and seams in ducts airtight; rework poorly made joints, splits, and visible holes at corners, etc., or install new pieces of ductwork. where excessive pulsating of ductwork or plenum
- b. branch connections shall be 45 degree entry for rectangular and round ducts, straight taps are not
- permitted. conical tees are acceptable in round branch take-off from round duct mains. c. all seams shall be sealed with ec-800 cement or similar.

housing is found, add additional stiffeners.

d. duct run out size shall be the same as the air inlet/outlet connection size unless noted otherwise.

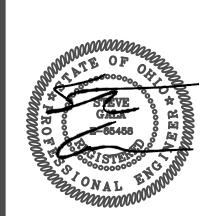
e. rigid sheet metal ductwork is required at all wall penetrations, flexible ductwork shall not be used in

exposed locations.

a. refer to architectural reflected ceiling plan for ceiling construction and exact location of air distribution

3.4 Miscellaneous

a. all equipment or materials not specified, contractor shall install per manufacturer's recommendations and provide all required components to make a complete working system.





12815 DETROIT AVE, LAKEWOOD, OHIO 44107 216-221-2350

PROJECT No: 25118

ME П S О Ш

DRAWN BY:

2025.08.29

2025.10.31

CHECKED BY:

<u>ISSUE</u>

Permit:

Permit:

Issued for

THE CONTRACTOR AGREES THAT LARSEN ARCHITECTS SHALL BE THE FINAL DETERMINER OF THE SCOPE & INTENT OF

SITE AND NOTIFY THE ARCHITECTS OF AN' BEGINNING OR FABRICATING ANY WORK.

THE CONTRACTOR SHALL VERIFY ALL

THESE DRAWINGS.

NO SUBSTITUTIONS ARE PERMITTED UNLESS APPROVED BY THE ARCHITECT PRIOR TO BID ACCEPTANCE. ANY WORK PERFORMED IN CONFLICT WITH THE CONTRACT DOCUMENTS OR ANY CODE REQUIREMENTS SHALL BE CORRECTED BY THE CONTRACTOR AT HIS OWN EXPENSE.

NOTES & DETAILS ON DRAWINGS SHALL TAK

PRECEDENCE OVER GENERAL NOTES AND PROPERTY.

SHEET NUMBER

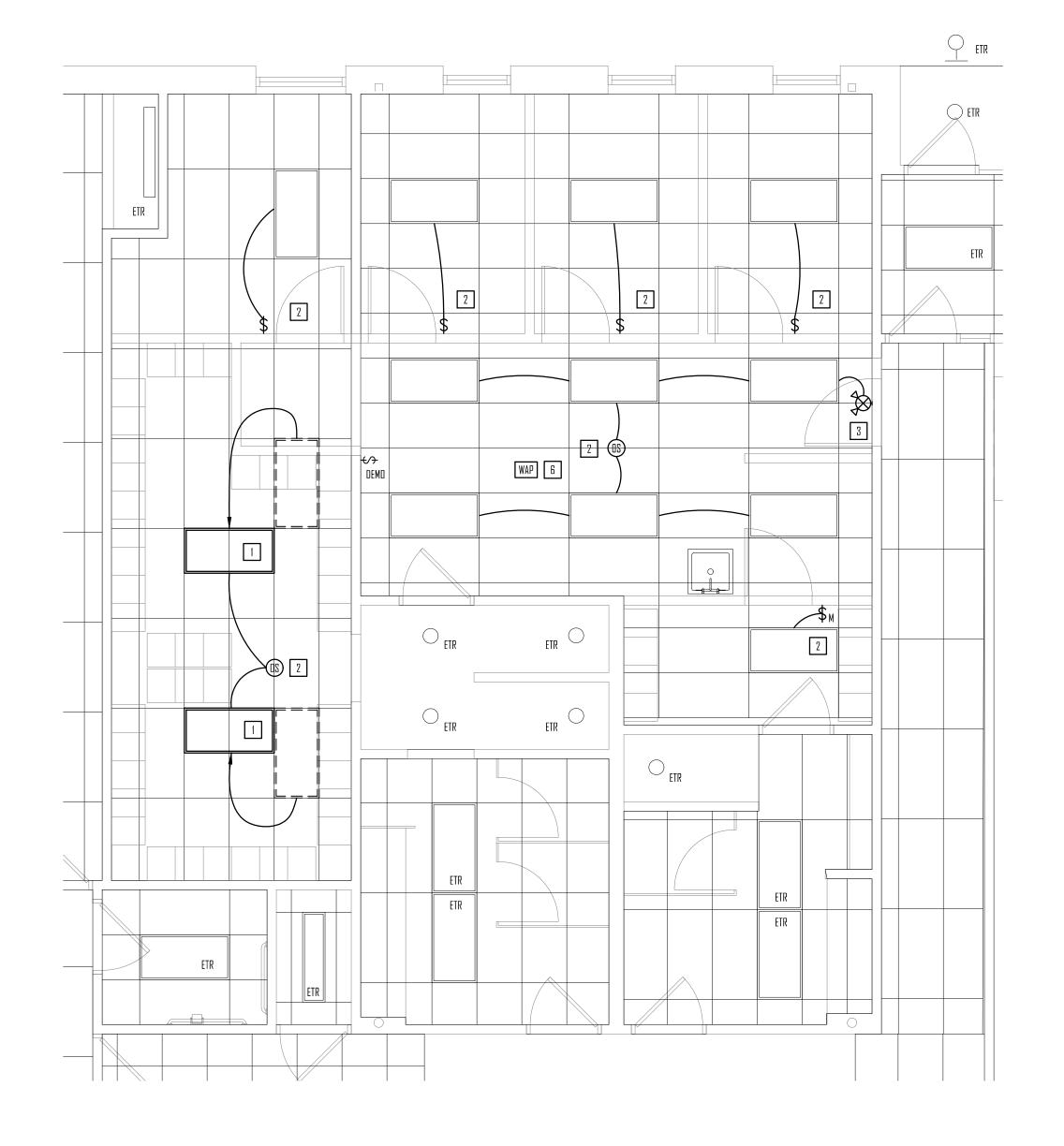
ANY DUPLICATION OR MODIFICATION IS FORBIDDEN WITHOUT PRIOR WRITTEN PERMISSION FROM LARSEN ARCHITECTS.

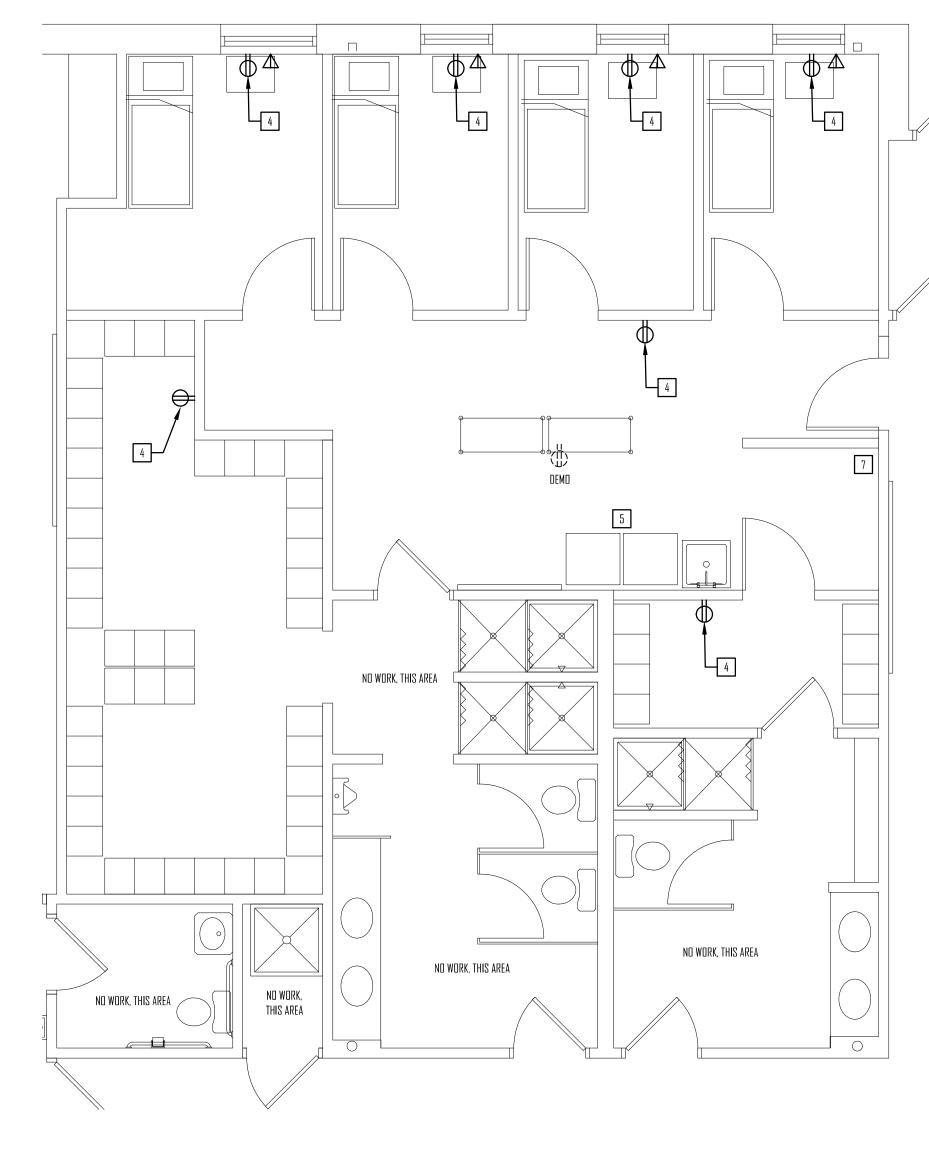


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ELECTRICAL SPECIFICATIONS

- 1. THE GENERAL CONDITIONS OF THE CONTRACT, THE SUPPLEMENTARY CONDITIONS AND ALL THE SECTIONS OF DIVISION 1, TOGETHER WITH THE FOLLOWING SPECIFICATIONS ARE A PART OF THE CONTRACT FOR THE WORK COVERED HEREIN. PROVIDE AS-BUILT DRAWINGS.
- 2. GUARANTEE ALL MATERIAL AND LABOR FOR ONE YEAR FROM DATE OF PROJECT ACCEPTANCE BY OWNER. REPAIR ALL DEFECTIVE MATERIAL AT NO CHARGE DURING GUARANTEE PERIOD.
- THE ELECTRICAL CONTRACTOR SHALL VISIT THE SITE TO FAMILIARIZE HIMSELF WITH EXISTING CONDITIONS. NO ADDITIONAL COMPENSATION SHALL BE AWARDED WHERE EXTRA LABOR OR MATERIAL ARE REQUIRED BECAUSE OF UNFAMILIARITY.
- 4. ELECTRICAL WORK SHALL BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE, ALL APPLICABLE FEDERAL, STATE AND LOCAL CODES AND ORDINANCES. THE ELECTRICAL CONTRACTOR SHALL SECURE AND PAY FOR ALL PERMITS AND INSPECTIONS REQUIRED TO PERFORM THE ELECTRICAL WORK. 5. THE DRAWINGS INDICATE DIAGRAMMATICALLY THE LOCATION OF ELECTRICAL DEVICES, EQUIPMENT AND
- FIXTURES, AND THE METHOD OF CONNECTION. THE DRAWINGS DO NOT INDICATE EVERY CONNECTION IN DETAIL OR ALL FITTINGS FOR A COMPLETE SYSTEM. MATERIAL OR LABOR WHICH IS NOT INDICATED ON THE DRAWINGS OR INCLUDED IN THE SPECIFICATIONS, BUT IS ABSOLUTELY NECESSARY TO COMPLETE THE WORK,
- 6. BRING CONFLICTS TO THE ATTENTION OF THE ARCHITECT FOR RESOLUTION BEFORE SIGNING THE CONTRACT OR PROCEEDING WITH THE WORK. FAILURE TO NOTIFY THE ARCHITECT IN WRITING WILL CAUSE THE ARCHITECT'S INTERPRETATION OF THE CONTRACT DOCUMENTS TO BE FINAL.
- 7. THE ELECTRICAL CONTRACTOR SHALL REFER TO PLANS AND SPECIFICATIONS OF THE OTHER TRADES FOR ELECTRICAL WORK PERTAINING TO THE INSTALLATION OF OTHER TRADES. COORDINATE WITH THE GENERAL CONTRACTOR AND OTHER SUBCONTRACTORS TO RESOLVE INTERFERENCE'S WITHOUT ADDITIONAL COST TO
- 8. THE SCOPE OF WORK SHALL INCLUDE BUT NOT BE LIMITED TO: A) BRANCH CIRCUIT PANEL BOARDS, FEEDERS, CONDUIT, BRANCH CIRCUITS, OUTLETS AND WIRING. B) MOUNTING HARDWARE, CONDUIT & WIRING.
- C) GROUNDING OF ALL SYSTEMS AND EQUIPMENT. 9. ALL EQUIPMENT AND MATERIAL SHALL BE NEW AND BEAR UL LABELS AND LISTINGS. THE PHRASE "PROVIDED BY" WITHIN THE CONSTRUCTION DOCUMENTS SHALL EXPLICITLY REPRESENT "FURNISHED AND INSTALLED
- 10. SUBMIT SHOP DRAWINGS FOR ALL EQUIPMENT PRIOR TO ORDERING FOR THE PROJECT WITH CONTRACTOR REVIEW STAMP AND SIGNATURE.
- II. COORDINATE WORK WITH THE OTHER TRADES FOR SPACE REQUIREMENTS, DISCREPANCIES OR CONFLICT OF WORK. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR CUTTING AND PATCHING REQUIRED FOR THE INSTALLATION OF THE ELECTRICAL WORK. VERIFY EXACT LOCATIONS OF DEVICES WITH ARCHITECT PRIOR
- 12. CONDUIT SHALL BE E.M.T. WITH SET SCREW FITTINGS CONCEALED ABOVE GRADE. CONDUIT SUPPORTS, FASTENERS, ETC. SHALL BE GALVANIZED AND CORROSION RESISTANT. SUPPORT CONDUIT FROM BUILDING STRUCTURE ONLY, DO NOT USE CEILING HANGER WIRES OR ROOF DECK FOR SUPPORT. THE USE OF PERFORATED METAL STRAPS IS NOT PERMITTED ON THE PROJECT. INSTALL PULL WIRES IN EMPTY OR FUTURE USE CONDUITS. TYPE MC CABLE MAY BE USED FOR BRANCH CIRCUIT WIRING WHERE PERMITTED BY AUTHORITY HAVING JURISDICTION. HOWEVER, RUNS TO PANEL BOARDS SHALL BE E.M.T. ABSOLUTELY NO PVC SHALL BE PERMITTED ABOVE FLOOR LINE WITHIN BUILDING. TYPE NM CABLE IS NOT PERMITTED ON THE PROJECT. OUTLET BOXES IN DRY LOCATIONS SHALL BE GALVANIZED STEEL TYPE, 1-1/2" DEEP MINIMUM, SINGLE OR GANG STYLE OF SIZE TO ACCOMMODATE DEVICES NOTED. BOXES SHALL BE EQUIPPED WITH PLASTER RINGS AS NECESSARY.
- 13. FIRE STOP ALL FIRE RATED WALL PENETRATIONS PER UL APPROVED METHOD, SUCH AS RTV FOAM (NON-DELETERIOUS). RACEWAY PASSING FROM THE INTERIOR TO THE EXTERIOR OF THE BUILDING SHALL BE FILLED WITH AN APPROVED MATERIAL TO PREVENT THE CIRCULATION OF WARM AIR TO A COLDER SECTION OF
- 14. WIRE SHALL HAVE SOLID OR STRANDED COPPER CONDUCTORS FOR #10 AND #12 WIRE AND STRANDED COPPER CONDUCTORS FOR WIRE #8 AND LARGER. WIRE SHALL HAVE GOOVOLT THHN/THWN INSULATION. MINIMUM SIZE WIRE SHALL BE #12 AWG. TAG ALL CONDUCTORS AT TERMINATIONS AT JUNCTION BOXES WITH BRADY LABELS. TORQUE TERMINATION'S PER MANUFACTURER'S RECOMMENDATIONS.
- 15. PANEL DIRECTORIES SHALL BE TYPED. PROVIDE AND INSTALL ENGRAVED PHENOLIC NAME PLATES FOR MOTOR STARTERS, PANEL BOARDS, SAFETY SWITCHES, ETC.
- IG. TEST WIRING SYSTEMS FOR SHORTS AND GROUNDS PRIOR TO ENERGIZING CIRCUITS.
- CONNECT ALL HVAC EQUIPMENT PER APPROVED MANUFACTURER'S DRAWINGS.
- 18. GROUNDING OF EQUIPMENT AND DEVICES SHALL COMPLY WITH N.E.C. ARTICLE 250 AND AUTHORITY HAVING JURISDICTION. PROVIDE AND INSTALL A SEPARATE EQUIPMENT GROUNDING CONDUCTOR IN ALL CONDUITS. THE ELECTRICAL CONTRACTOR IS CAUTIONED THAT THE BUILDING IS OCCUPIED AND WORK SHALL NOT
- INTERFERE WITH THE NORMAL OPERATION OF THE BUILDING AND ITS TENANTS. THE PROJECT SHALL BE MANNED AT ALL TIMES BY A COMPETENT FOREMAN.
- 20. ALL NEW OR MODIFIED EGRESS EMERGENCY LIGHTING SHALL BE WIRED INTO LOCAL LIGHTING CIRCUIT, AHEAD OF ANY SWITCH OR CONTROL.
- 21. FOR MEDICAL CARE FACILITIES (IF APPLICABLE) : ELECTRICAL CONTRACTOR SHALL COORDINATE 'PATIENT CARE SPACES'. BRANCH CIRCUITS IN THESE DESIGNATED ARES SHALL BE WIRED PER THE STRICT REDUNDANT GROUNDING BRANCH CIRCUIT REQUIREMENTS PER NEC 517.13. THE RECEPTACLES ARE TO BE HOSPITAL GRADE. ALL RECEPTACLES IN OTHER AREAS (INCLUDING BUT NOT LIMITED TO: OFFICES, WAITING ROOMS, TOILET ROOMS, BREAK ROOMS AND CORRIDORS) SHALL BE TAMPER PROOF TYPE.









ELECTRICAL POWER PLAN

ELECTRICAL ABBREVIATIONS

ACU AIR CONDITIONING UNIT G. GROUND HVAC HEATING, VENTILATING, AIR CONDITIONING CONTRACTOR AF AMP FUSE

AFF ABOVE FINISHED FLOOR MAU MAKE-UP AIR UNIT

MCA MINIMUM CIRCUIT AMPERAGE AFG ABOVE FINISHED GRADE MCB MAIN CIRCUIT BREAKER AHU AIR HANDLING UNIT MLO MAIN LUG ONLY ATS AUTOMATIC TRANSFER SWITCH

MOD MOTOR OPERATED DAMPER C. CONDUIT MOP MAXIMUM OVERLOAD PROTECTION CU CONDENSING UNIT DS DISCONNECT SWITCH NL NIGHT LIGHT DWH DOMESTIC WATER HEATER PC PHOTOCELL

EBB ELECTRIC BASE BOARD RLA RATED LOAD AMPS E.C. ELECTRICAL CONTRACTOR RP RECIRCULATION PUMP EF EXHAUST FAN RTH RADIANT TUBE HEATER EH ELECTRIC HEATER RTU ROOF TOP UNIT

ERV ENERGY RECOVERY VENTILATOR ST SHUNT TRIP ETR EXISTING TO REMAIN UG UNDERGROUND UH UNIT HEATER EWC ELECTRIC WATER COOLER EX EXISTING UND UNLESS NOTED OTHERWISE

WP WEATHER PROOF

F FURNACE

ELECTRICAL SYMBOL LEGEND

J SQUARE JUNCTION BOX WITH FLUSH COVER

DUPLEX RECEPTACLE - VERIFY MOUNTING HEIGHT IN FIELD QUADRUPLEX RECEPTACLE - VERIFY MOUNTING HEIGHT IN FIELD

DUPLEX RECEPTACLE - CEILING MOUNTED OR 6" ABOVE WINDOW COMBINATION DATA & VOICE - MOUNTED +18" AFF (UND) WITH A MINIMUM 1 1/2" C (COORDINATE WITH LOW-VOLTAGE/DATA CONTRACTOR) FROM THE BOX TO ABOVE THE ACCESSIBLE CEILING WITH A PROTECTIVE BUSHING AT THE TERMINATION POINT. SECURE AND SUPORT THE CONDUIT PER NEC REQUIREMENTS. SWITCH – SINGLE POLE

└─M - MOTION SENSOR (WITH MANUAL OVERRIDE) D - DIMMER

ELECTRICAL PANEL - SURFACE MOUNTED

A-1 SAME AS ABOVE, HOME RUN AND WIRING OMITTED FOR CLARITY

||| 3 WIRES, 1 NEUTRAL

— — — — BELOW FLOOR CONDUIT

A-1 HOME RUN, PANEL AND CIRCUIT NUMBER. 2-#12, #12G., 3/4" C. TO A 20A-IP C/B TYPICALLY

|||| 4 wires, 1 neutral

S "RUN CONTINUES" INDICATION WAP WIRELESS ACCESS POINT

ELECTRICAL PLAN KEYED NOTES

RELOCATE EXISTING LIGHT AS SHOWN; LIGHT(S) TO REMAIN ON EXISTING BRANCH CIRCUIT.

2 E.C. TO REWIRE EXISTING/RELOCATED LIGHT(S) FOR NEW CONTROL(S) AS SHOWN; LIGHT(S) TO REMAIN ON EXISTING BRANCH CIRCUIT.

3 NEW EMERGENCY LIGHT/EXIT SIGN COMBO, MATCH EXISTING. WIRE INTO LOCAL LIGHT CIRCUIT AHEAD OF ANY SWITCH OR

RELOCATE EXISTING OUTLET AS SHOWN (MADE AVAILABLE VIA DEMOLITION). E.C. TO INTERCEPT EXISTING CIRCUIT ABOVE CEILING AND EXTEND CABLE AND CONDUIT AS REQUIRED TO NEW LOCATION. COORDINATE AND VERIFY IN FIELD. IF NO OUTLET IS AVAILABLE FOR RELOCATION, E.C. SHALL PROVIDE NEW AS SHOWN AND WIRE INTO EXISTING LOCAL RECEPTACLE CIRCUIT (VERIFY CIRCUIT CAPACITY) OR WIRE NEW 2 - #12, #12 G., 3/4" C. TO A NEW (OR EXISTING SPARE) 20A-IP C/B IN EXISTING LOCAL ELECTRICAL PANEL. COORDINATE MOUNTING AND BOX TYPE IN FIELD; A SHALLOW BOX MAY NEED TO BE USED ON EXISTING MASONRY WALLS.

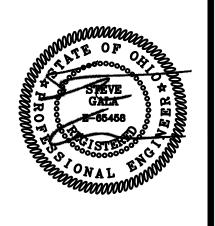
T RELOCATED WASHER AND DRYER: E.C. SHALL INTERCEPT EXISTING CIRCUITS ABOVE CEILING AND EXTEND CONDUIT AND CONDUCTORS AS REQUIRED TO NEW LOCATION SHOWN. E.C. SHALL PROVIDE OUTLETS TO MATCH THE EXISTING INSTALLATION CONDITIONS PRIOR TO DEMOLITION.

6 EXISTING WIFI EXTENDER IN CEILING TO REMAIN.

7 REMOVE/RELOCATE EXISTING PHONE CONNECTION, THERMOSTAT AND POWER RECEPTAGLE. COORDINATE LOW VOLTAGE WITH CONTRACTOR IN FIELD AND MECHANICAL DRAWINGS. VERIFY NEW LOCATIONS IN FIELD WITH OWNER.



elemental engineering llc





ARCHITECTS 12815 DETROIT AVE,

LAKEWOOD, OHIO 44107

216-221-2350

PROJECT No: 25118

DRAWN BY: CHECKED BY: EE

<u>ISSUE</u> Issued for

2025.08.29 Permit:

THE CONTRACTOR AGREES THAT LARSEN ARCHITECTS SHALL BE THE FINAL

DETERMINER OF THE SCOPE & INTENT OF THESE DRAWINGS. THE CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS AT THE JOB

SITE AND NOTIFY THE ARCHITECTS OF ANY DISCREPANCIES OR OMISSIONS BEFORE BEGINNING OR FABRICATING ANY WORK.

NO SUBSTITUTIONS ARE PERMITTED UNLESS APPROVED BY THE ARCHITECT PRIOR TO BID ACCEPTANCE.

ANY WORK PERFORMED IN CONFLICT WITH THE CONTRACT DOCUMENTS OR ANY CODE REQUIREMENTS SHALL BE CORRECTED BY THE CONTRACTOR AT HIS OWN EXPENSE. NOTES & DETAILS ON DRAWINGS SHALL TAK

RECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS. ANY DUPLICATION OR MODIFICATION IS

PERMISSION FROM LARSEN ARCHITECTS. SHEET NUMBER

ELECTRICAL PLANS