



# NEW OUTLAW ATTITUDE BBQ RESTAURANT

at 215 West Front Street, Napoleon, Ohio

Designed by:

# Virtual Design Studios

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Drawing Date  
March 24, 2018  
Issued for:  
02-27-18 Client Review  
03-24-18 Final Review

New Restaurant for  
Outlaw Attitude BBQ



215 West Front St.,  
Napoleon, Ohio

VDS No.: 170827

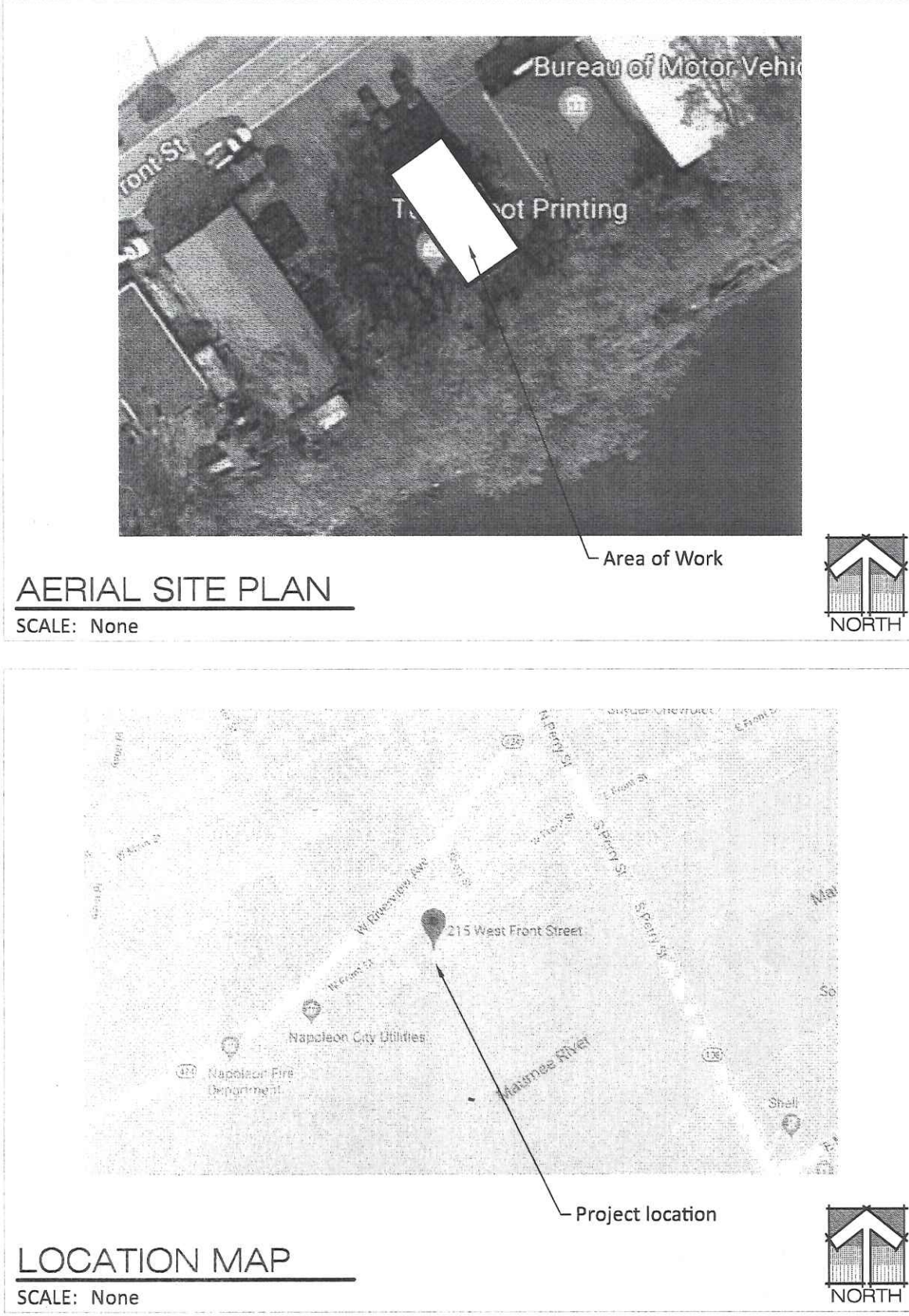
WALL LEGEND	
	Wall Type Designation
Acoustically Rated Walls	
	Wall Type Designation
1-Hour Fire Rated Walls	
	Wall Type Designation
2-Hour Fire Rated Walls	
	Wall Type Designation
3-Hour Fire Rated Walls	
	Wall Type Designation
4-Hour Fire Rated Walls	
	Wall Type Designation
Non-Rated Walls	
	Wall Type Designation

SYMBOL LEGEND	
	Section Designation
	Sheet Number
Sections	
	Detail Designation
	Sheet Number
Details	
	Elevation Designation
	Sheet Number
Elevations	
	Window Designation
Windows	
	Door Designation
Doors	
	Wall Type Designation
Walls	
	Room Name
ROOM	
	Room Number
Rooms	
	Keynote Designation
Keynotes	
	Revision Designation
Revisions	
	Revision Cloud

ARCHITECTURAL NOTES:	
1. The Contractor shall visit the Job Site and become familiarized with all existing conditions which may affect the Bid. No Allowances will be made after the Bid for existing conditions or the Contractor's failure to verify existing conditions.	
2. The Contractor shall Guarantee all materials and workmanship furnished under this Contract for a period of One Year from the Date of Final Acceptance of Work of this Contract by the Owner. Any defects developing within this period, traceable to materials or workmanship performed hereunder, shall be made good at the expense of the Contractor. The Contractor shall accept and fully understand this provision prior to Contract being awarded, as no claim for extra compensation will be allowed for correction of faulty work or defective materials. Any time during the construction period, Owner's Representatives retain the right to require the Contractor to remove and reinstall any equipment or materials not following the standards as presented herein or on the Drawings without cost to the Owner or his Representatives.	
3. Provide 6 sets of Shop Drawings for all equipment to the Architect for approval, prior to ordering. Equipment installed without approval shall be subject to rejection and replacement at Contractor's expense.	
4. The Contractor must be experienced in this type of installation. No allowances will be made after the bid for failure to provide installation per national standards and/or local codes.	

ACCESSIBILITY NOTES:	
1. Changes in Floor Finish Level between 2" high and 12" high maximum shall be made by a means of a Transition Strip with a slope not beveled and not steeper than 1:2 at all Doors.	
2. Provide Lever Handle type Hardware Sets unless noted otherwise.	
3. Hardware for all doors shall be mounted no higher than 48" above finished floor.	
4. The bottom 12" of Doors shall have a smooth and uninterrupted surface.	
5. Door Closers shall be adjusted so that from an open position of 90°, the time required to move the door to an open position of 12° will be 5 seconds minimum.	
6. Maximum interior opening force shall not exceed 5 lbs.	

DESIGN-BUILD WARNING:	
1. These Drawings have been prepared as Design-Build Drawings and are solely intended for the commissioning Contractor. Use without authorization by the Architect is illegal and strictly prohibited.	
2. The Contractor is responsible for all materials and methods used for construction.	



SCOPE OF WORK:	
1. Scope includes a Change of Use with interior alterations to create a new Restaurant.	
2. There is a Change of Use or Occupancy.	
3. There is a MODIFICATION in the Means of Egress.	
4. There is a MODIFICATION in the Means of Egress.	
5. There is a change in the Occupant Load.	

STRUCTURAL LOADS	
Floor Live Load:	100 PSF
Floor Dead Load:	10 PSF
Roof Live Load:	20 PSF
Roof Dead Load:	10 PSF
Ground Snow Load:	20 PSF
Snow Exposure Factor:	0.9 / B
Snow Importance Factor:	1.0
Basic Wind Speed:	90 MPH
Wind Importance Factor:	1.0
Wind Exposure Category:	B
Seismic Use Group:	I
Site Class:	D

DRAWING INDEX	
<b>General:</b>	
G.1	Project Title Sheet
G.2	Code Compliance - Life Safety Plan
G.3	Accessibility Details
<b>Demolition:</b>	
D.1	Overall Demolition Plan and Notes
<b>Foundation:</b>	
F.1	Foundation Plan and Notes
<b>Structural:</b>	
S.1	Overall Deck and Ramp Framing Plan
S.1	Overall Roof Framing Plan
<b>Architectural:</b>	
A.1	Overall Architectural Plan and Notes
A.2	Exterior Elevations and Details
A.3	Exterior Elevations and Details
A.4	Sections and Details
A.5	Overall Ceiling Plan and Details
A.6	Specifications
<b>Mechanical:</b>	
M.1	Overall Mechanical Plan and Notes
M.2	Details
<b>Electrical:</b>	
E.1	Overall Electrical Floor Plan
E.2	Overall Electrical Ceiling Plan
<b>Plumbing:</b>	
P.1	Overall Plumbing Floor Plan and Notes
P.2	Isometric and Details

TYPE OF WORK:	
New Building:	
Building Addition:	
New Firewall Separation:	X
Alteration:	X
Change of Use:	X

BLDG CLASSIFICATION:	
Single / Mixed Use:	Single
Classification(s):	A-2

BUILDING LIMITATIONS:	
Number of Stories:	1
Height Limits (ft):	40
Area Limits (sf):	6,000
<b>Modifications:</b>	
• Auto-Fire Suppression:	No
• Stories Adjustments:	-
• Height Adjustments (ft):	-
• Area Adjustments (sf):	-
• Street Frontage (sf):	1,500
<b>Allowable Stories:</b>	
Allowable Height (ft):	40
Allowable Area (sf):	7,500
<b>Actual Stories:</b>	
Actual Height (ft):	20
Actual Area (sf):	2,137

CONSTRUCTION TYPE:	
Construction Type:	VB
<b>Structural Frame (hr):</b>	
Load Bearing Walls	0
• Exterior (hr):	0
• Interior (hr):	0
<b>Non-Load Bearing Walls</b>	
• Exterior (hr):	0
• Interior (hr):	0
Floors incl. Structure (hr):	0
Roof incl. Structure (hr):	0

01060 REGULATORY REQUIREMENTS	
1. Work to be performed, the materials and equipment furnished under these Contract Documents shall be in strict conformity in every respect with the latest editions of the following governing Codes, rules or Regulations, or Standards as most recently amended.	
a. Americans with Disabilities Act 2010	
b. State Fire Marshal	
c. The National Electric Code 2017	
d. State Board of Health & OSHA Regulations	
e. National Fire Protection Association (NFPA)	
f. Ohio Building Code 2017 (IBC)	
g. ICC / ANSI A117 Accessibility Code 2009	
2. Nothing in these Plans or Specifications is to be construed to permit work not conforming to these codes.	
3. Whenever an ASTM designation is herein referred to, it shall mean the particular edition of the publication of the American Society for Testing Materials.	
4. Whenever a Referenced Standard or Manufacturer's instruction is noted in these Contract Documents, it shall be interpreted as a requirement of these Documents.	

Signature:  
Date:  
Richard Livechi, ARA, NCARB  
License #: 9812  
Expires: 12/31/2019  
Virtual Design Studios  
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P: 419-304-8554 E: VirtualDesignStudios.net





CODE - LIFE SAFETY  
KEYNOTES:

- Note: The Accessible Means of Egress from the Dining area includes the Deck Stairs but not the Ramp.
- A. Existing Wall assembly to remain, typical.
- B. Existing Door assembly to remain, typical.
- C. Existing Window assembly to remain, typical.
- D. New Wall assembly - see Architectural Drawings for additional information, typical.
- E. New Door assembly - see Architectural Drawings for additional information, typical.
- F. New Window assembly - see Architectural Drawings for additional information, typical.
- G. New Accessible Counters/ Casework - see Architectural Drawings for additional information, typical.
- H. New Accessible Plumbing Fixtures assembly - see Plumbing Drawings for additional information, typical.
- I. New Service Sink - see Plumbing Drawings for additional information, typical.
- J. New Dining Furniture by Tenant.
- K. New Kitchen Equipment by Tenant.
- L. New Exit Light with Emergency Lights - see Electrical Drawings for additional information, typical.
- M. New Emergency Light - see Electrical Drawings for additional information, typical.
- N. New Hot Water Heater - see Plumbing Drawings for additional information, typical.
- O. Existing Natural Gas Meter to remain, typical.
- P. Existing Electrical Service to be upgraded - see Electrical Drawings for additional information, typical.
- Q. Existing Stair to remain, typical.
- R. Smoker by Tenant.

EGRESS DATA

Occupant Load:  
Use Group: A-2  
Total Occupant Load: 51

Travel Length:  
Automatic Fire Suppression: No  
Allowable Distance: 200'

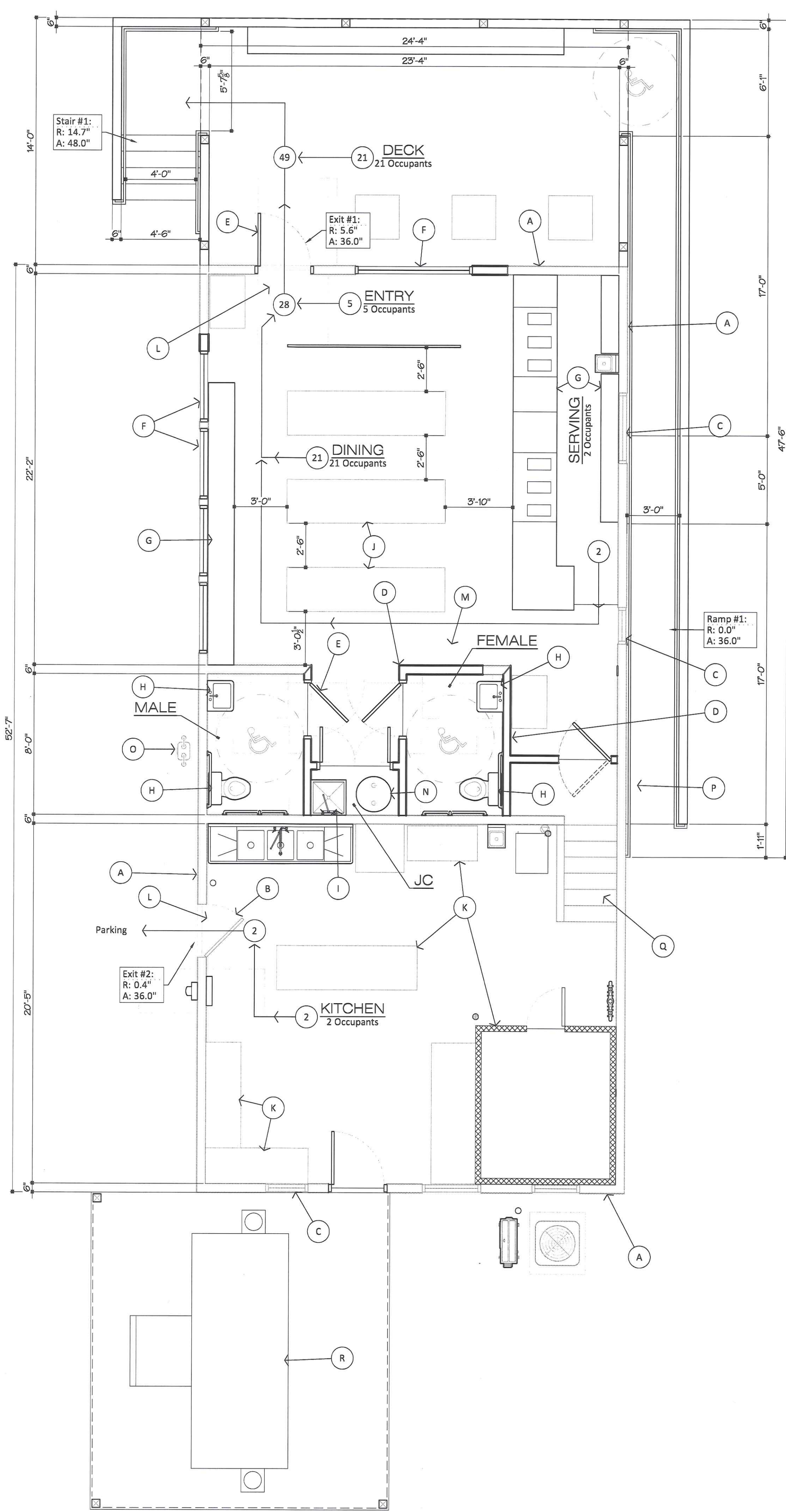
Egress Widths:  
Required Egress Width per Occupant  
Automatic Fire Suppression: No  
Stairs: 0.3"  
Doors, Corridors and Ramps: 0.2"  
Minimum Required Widths: 44"

EGRESS LEGEND

Direction of Egress  
X - Number of Occupants traveling through Opening.  
R: XX" - Denotes the Required Width for Occupants traveling through Openings.  
A: XX" - Denotes Actual Opening Width Provided.

DIMENSIONS:

1. Contractor to verify all dimensions prior to the start of the Project and adjust items as necessary to achieve the intent of the Construction Documents. Major discrepancies should be reported to the Architect.



LIFE SAFETY - CODE COMPLIANCE PLAN  
SCALE: 1/4" = 1'-0"

PROJECT SQUARE  
FOOTAGE

Construction Area: 2,137 SF

FINISH CLASS:

Use Group: A-2  
Auto-Fire Suppression: No  
Vertical Exits: A  
Exit Corridors: A  
Rooms and Spaces: B

ACCESSIBILITY NOTES:

1. Changes in Floor Finish Level between 1/4" high and 1 1/4" high maximum shall be made by a means of a Transition Strip with a slope not beveled and not steeper than 1:2 at all Doors.
2. Provide Lever Handle type Hardware Sets unless noted otherwise.
3. Hardware for all doors shall be mounted no higher than 48" above finished floor.
4. The bottom 12" of Doors shall have a smooth and uninterrupted surface.
5. Door Closers shall be adjusted so that from an open position of 90°, the time required to move the door to an open position of 12° will be 5 seconds minimum.
6. Maximum interior opening force shall not exceed 5 lbs.

GENERAL NOTES

1. The intent of the Contract Documents is the finished work shall be complete. Drawings show major work; small items not shown shall be included as necessary to provide a fully complete installation.
2. Exact conditions, dimensions and locations must be verified at the site by the Contractor before proceeding with work.
3. All work to conform to all applicable Codes.
4. All Finish Materials (carpet, wall coverings, etc.) must be in compliance with all Codes having jurisdiction.
5. The Contractor will apply and pay for Permits and Inspections required for this Project. The Contractor and Subcontractors shall comply with all local rules and requirements.

PLUMBING FIXTURE COUNT:

Use or Occupancy	Male Toilets	Male Lavatory	Female Toilets	Female Lavatory	Drinking Fountains	Service Sink
Restaurant	1	1	1	1	Exempt	1
Total Required:	1	1	1	1	Exempt	1
Total Provided:	1	1	1	1	Exempt	1

- Notes:
1. Quantities are calculated on the Design Occupant Load of each area and per Chapter 29 of the Building Code and the Plumbing Code.
2. Urinals may be substituted up to half of the required Water Closets per the Plumbing Code.
3. A Water Cooler is exempted with a Restaurant use as permitted by the Plumbing Code exceptions.
4. All Lavatories with public access will be equipped with a Temperature Limiting Device conforming to ASSE 1070 unless otherwise noted.

FIRE EXTINGUISHERS:

- Portable Fire Extinguishers shall be installed in the following locations per the Building and Fire Codes:
1. Within 30 feet of Commercial Cooking Equipment.
2. In areas where Flammable or Combustible Liquids are stored, used or dispensed.
3. On each Floor of structures under construction in accordance with the Fire Code.
4. Where required by the Fire Code.
5. Special-Hazard areas, such as Laboratories, Computer Rooms and Generator Rooms.
6. Portable Fire Extinguishers shall be selected, installed and maintained per NFPA 10.

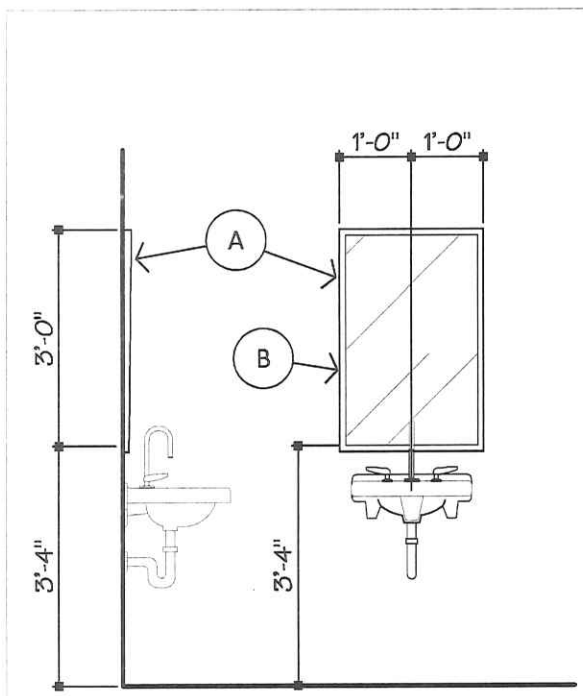
FINISH NOTES:

1. All walls shall be primed and painted on all visible surfaces. Paint color by Owner/Tenant from standard commercial grade from Manufacturer's standard selections.
2. All rooms receiving new carpet to conform to local Building Code requirements. Carpet style and color by Owner/Tenant from standard commercial grade from Manufacturer's standard selections.
3. Acoustical ceiling system shall conform to local Building Code requirements. Ceiling selection by Owner/Tenant from standard commercial grade from Manufacturer's standard selections.
4. All finishes shall be installed per Manufacturer's instructions and shall meet or exceed Building Code requirements.

ARCHITECTURAL  
NOTES

1. Insulate Drain and Hot Water pipes under lavatories and sinks.
2. All Glazing subject to Human Impact shall conform to "Safety Glazing" standards.
3. All Faucets shall be Lever action and conform to Accessibility standards.
4. Toilet Room Floors shall have non-absorbent Flooring and shall be extended up walls 6". Toilet Room Walls shall be finished with non-absorbent Finish to 4'-0" minimum above finish floor.
5. All Identification Signage shall be raised Sans Serif Lettering and will be accompanied with Grade 2 Braille. Pictorial / International Signs shall be 6" high minimum Graphic proportioned per Accessibility Standards. Identification, Directional and Information Signs shall have a non-glare finish and characters shall contrast with the background.
6. All Carpet, Tile and Sheet Vinyl shall be securely attached. Carpet shall have no pad and a Level Loop, Textured Loop or Level Cut Pile. The maximum Pile thickness shall be 1/2". Exposed edges of the Carpet shall be fastened to the floor surface and have trim along the entire length of the exposed edge.

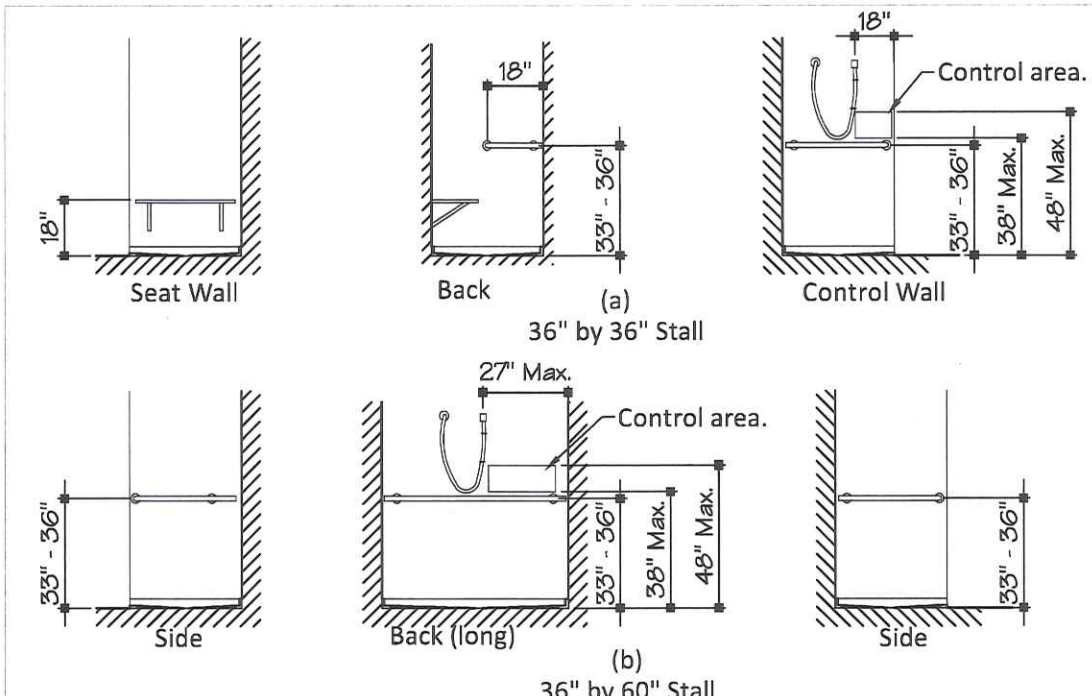




- KEYNOTES:**
- A. Provide and install Accessible Mirror assembly per Manufacturer's Instructions.
  - B. Center mirror over Lavatory, typical.

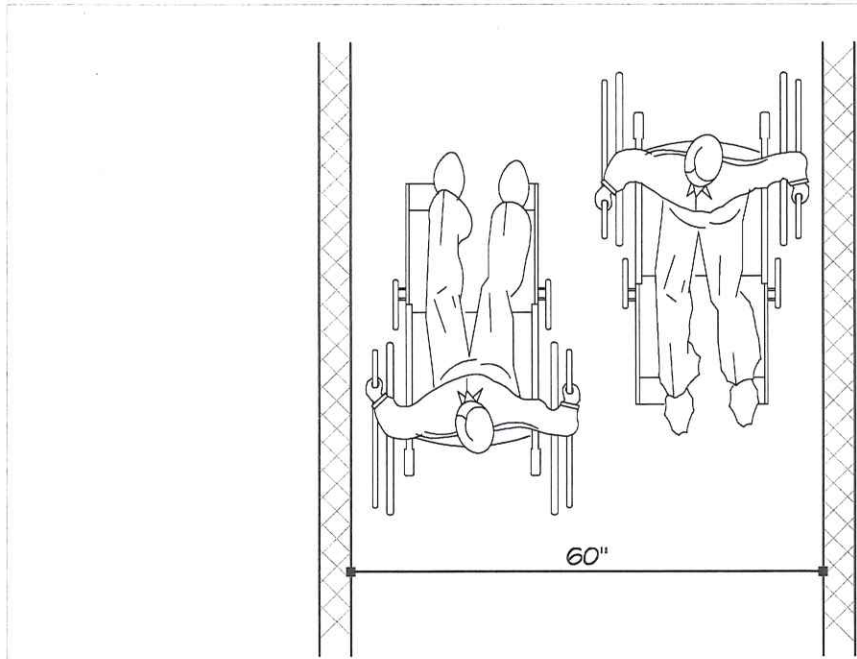
**ACCESSIBLE MIRROR DETAIL**

SCALE: 3/8" = 1'-0"



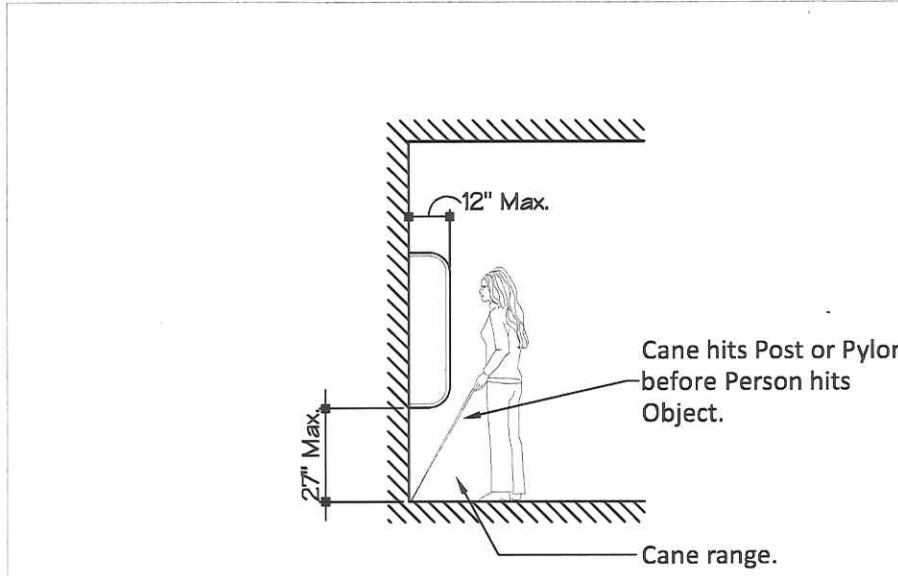
**ACCESSIBLE SHOWER DETAIL**

SCALE: NONE



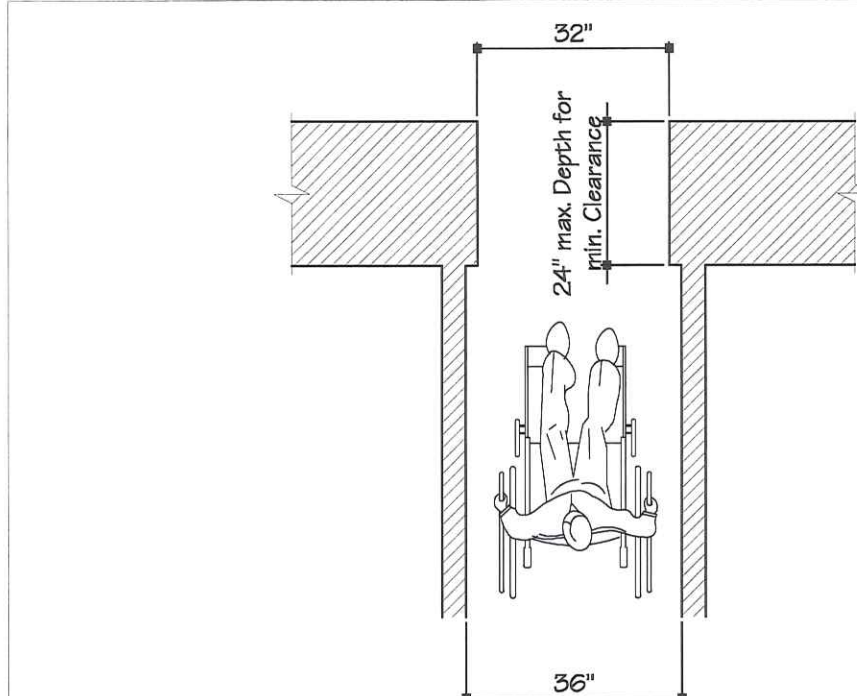
**WHEELCHAIR MINIMUM CLEARANCE**

SCALE: NONE



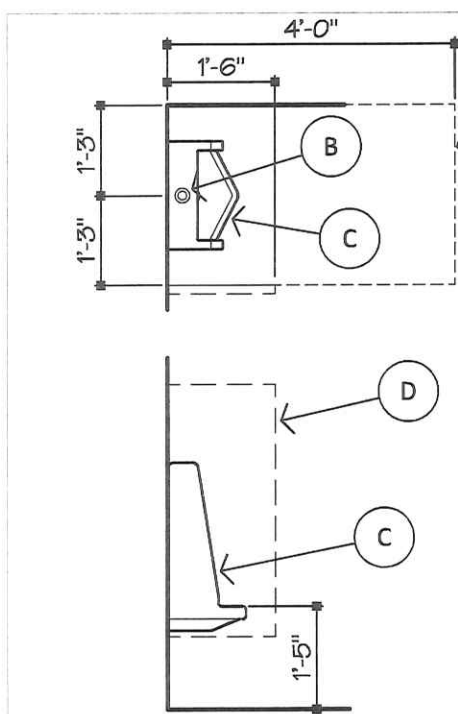
**PROTRUDING OBJECT CLEARANCES**

SCALE: NONE



**MINIMUM ACCESSIBLE CLEARANCE**

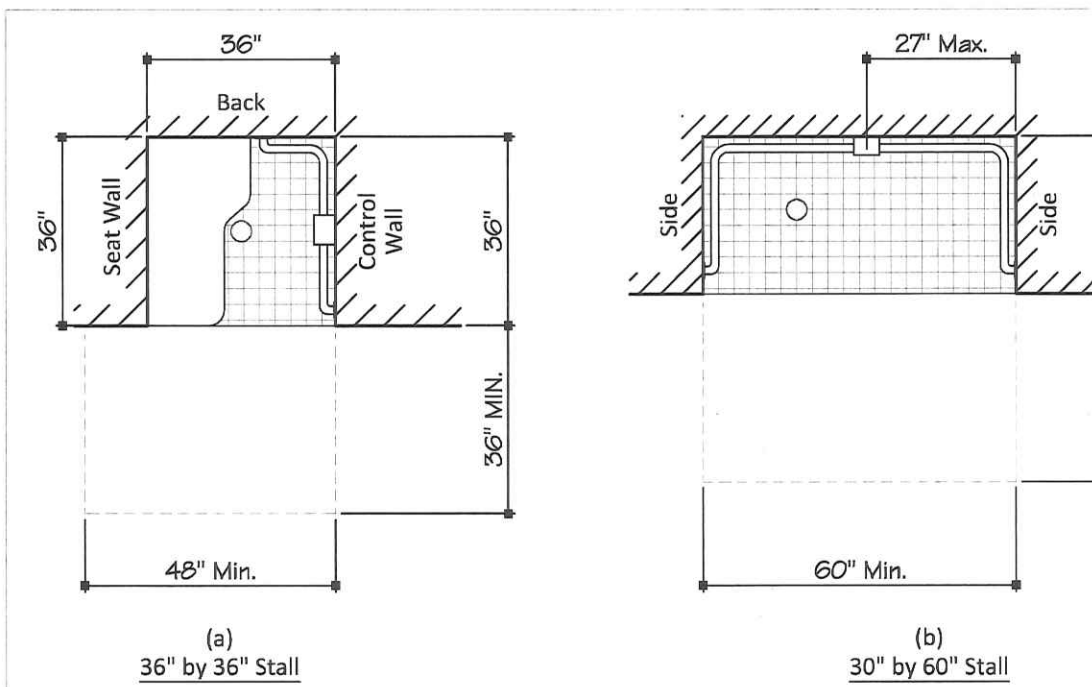
SCALE: None



- KEYNOTES:**
- A. Required Clear Floor Area.
  - B. Provide and install Accessible Flushing Device per Manufacturer's Instructions.
  - C. Provide and install Accessible Urinal assembly per Manufacturer's Instructions.
  - D. Urinal Partition - where shown on Drawings.

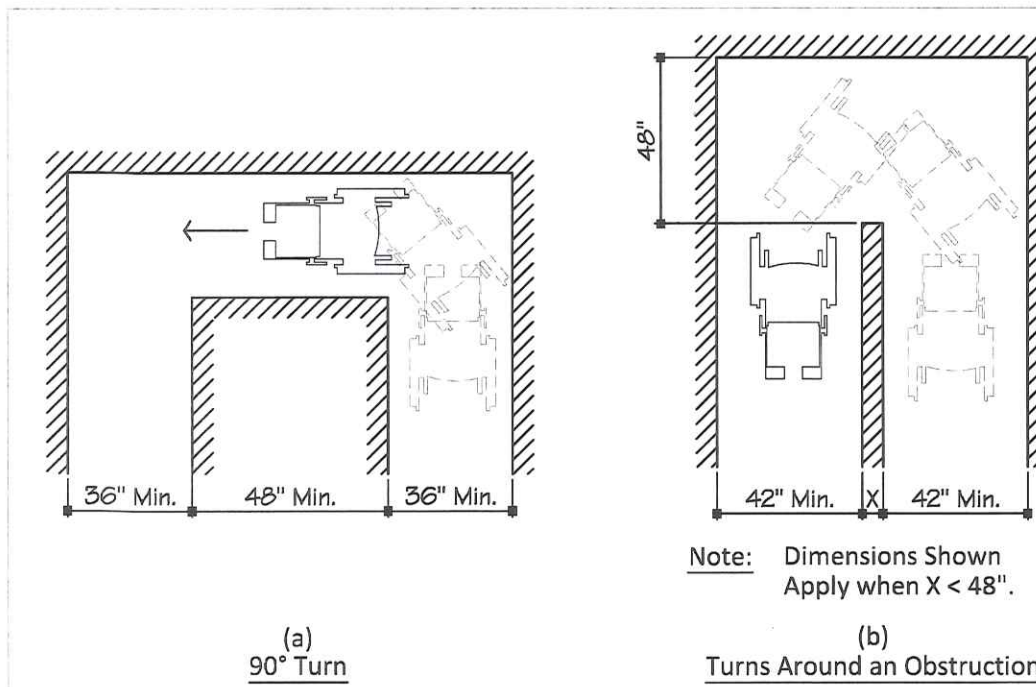
**ACCESSIBLE URINAL DETAIL**

SCALE: 3/8" = 1'-0"



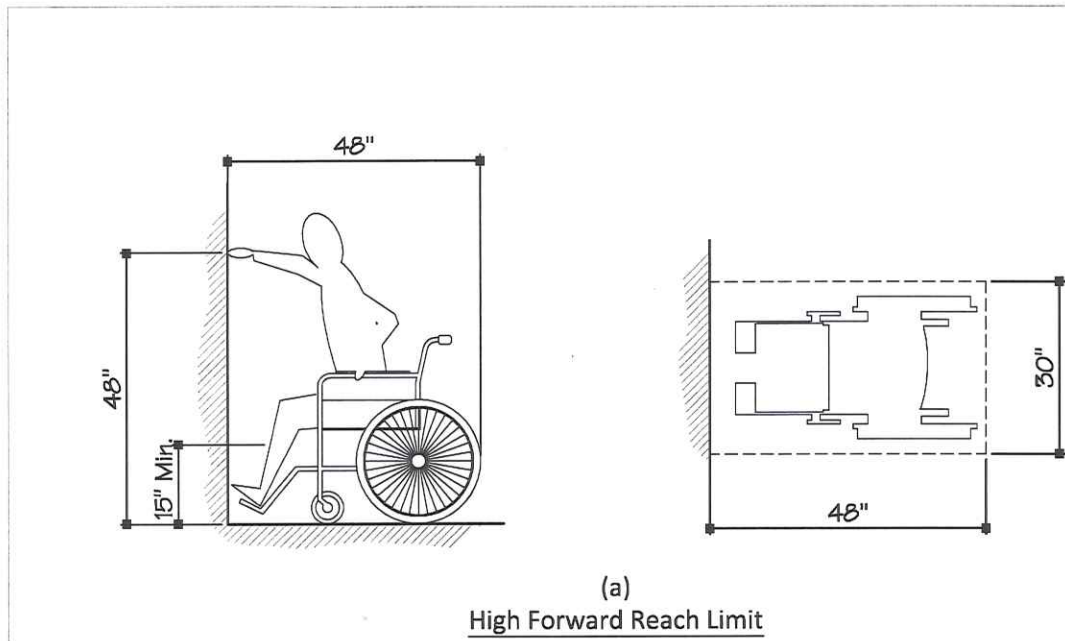
**ACCESSIBLE SHOWER DETAIL**

SCALE: NONE

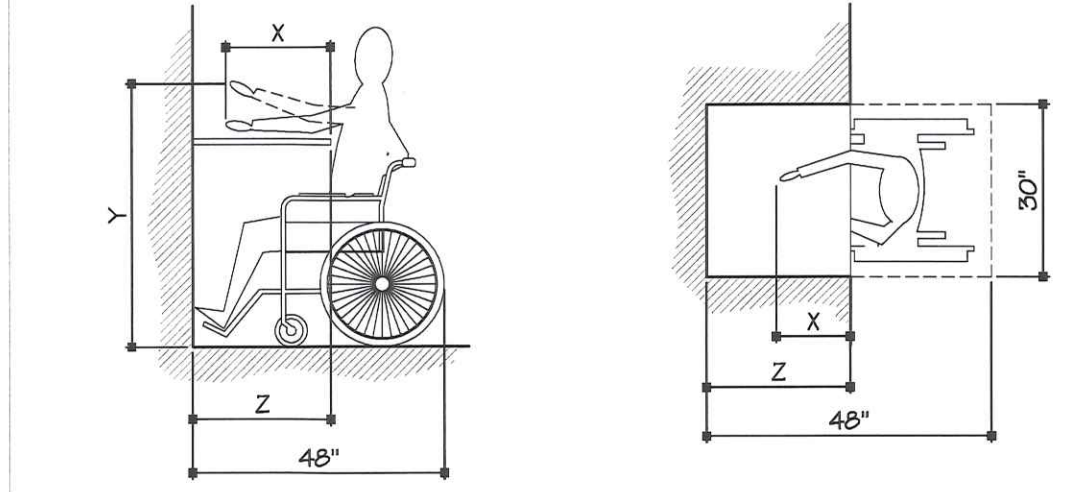


**ACCESSIBLE TURNING DETAIL**

SCALE: NONE

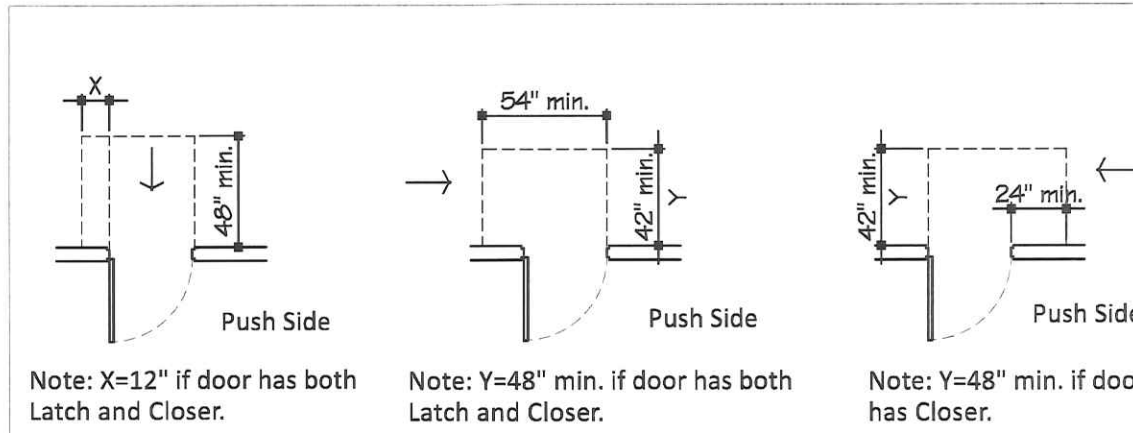


**High Forward Reach Limit**



Note: X shall be  $\leq 25"$ ; Z shall be  $> X$ . When  $X \leq 20"$ , then Y shall be 48" Max. When X is 20" - 25", then Y shall be 44" Max.

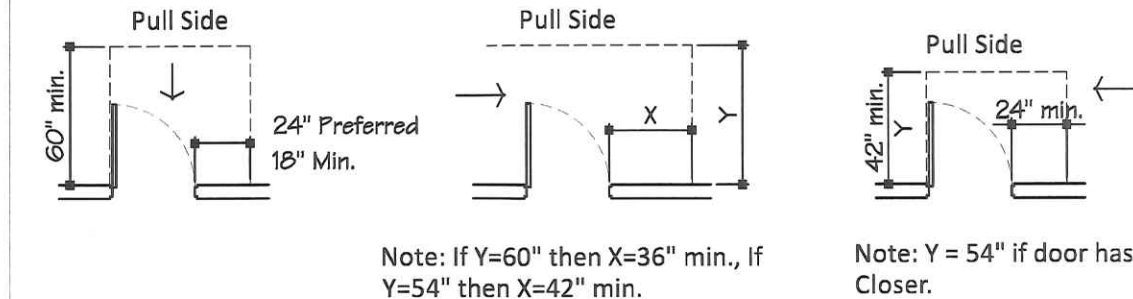
**Maximum Forward Reach over an Obstruction**



Note: X=12" if door has both Latch and Closer.

Note: Y=48" min. if door has both Latch and Closer.

Note: Y=48" min. if door has Closer.



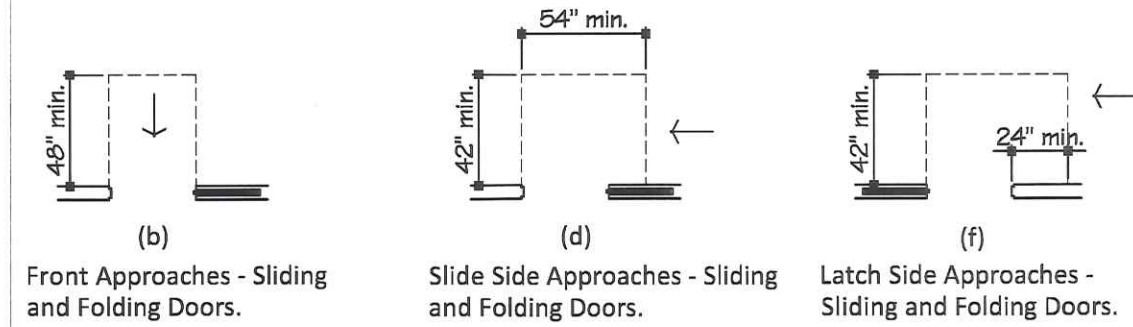
Note: If Y=60" then X=36" min., if Y=54" then X=42" min.

Note: Y=54" if door has Closer.

**Front Approaches - Swinging Doors.**

**Hinge Side Approaches - Swinging Doors.**

**Latch Side Approaches - Swinging Doors.**



**Front Approaches - Sliding and Folding Doors.**

**Slide Side Approaches - Sliding and Folding Doors.**

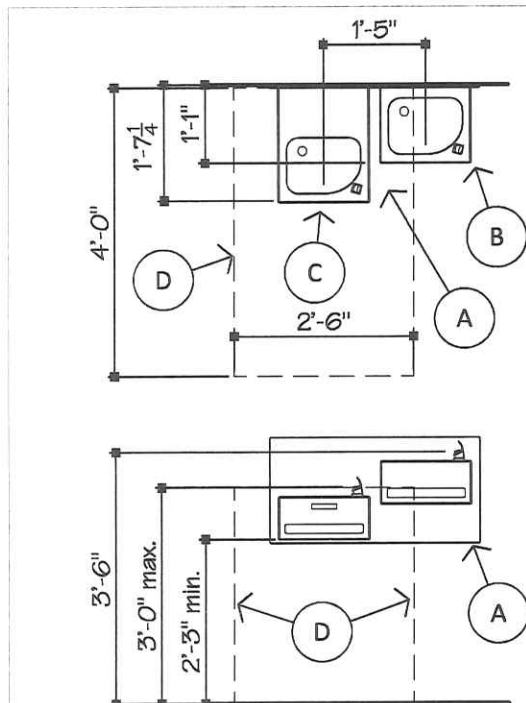
**Latch Side Approaches - Sliding and Folding Doors.**

Note: All doors in Alcoves shall comply with the clearances for Front Approaches.

Direction of Approach

**ACCESSIBLE DOOR CLEARANCES DETAIL**

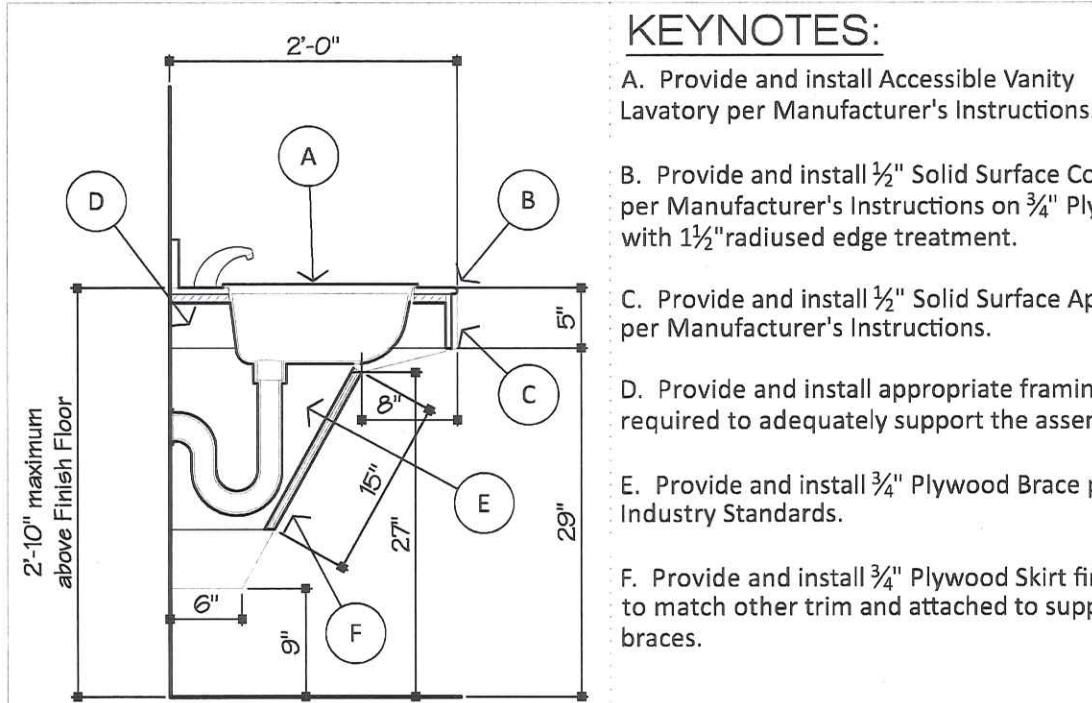
SCALE: None



- KEYNOTES:**
- A. Provide and install Accessible Electric Water Cooler (EWC) assembly per Manufacturer's Instructions - see Plumbing drawings for additional information.
  - B. High Fountain.
  - C. Low Fountain.
  - D. Required Clear Floor Area.

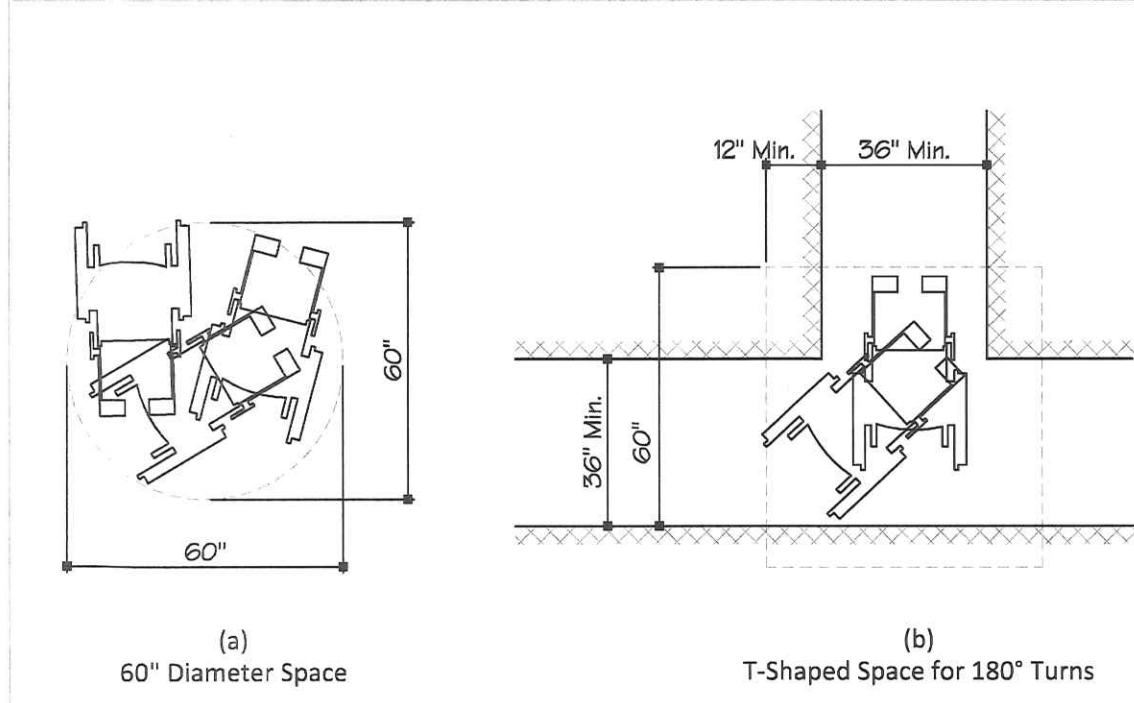
**ACCESSIBLE ELECTRIC WATER COOLER DETAIL**

SCALE: 3/8" = 1'-0"



**ACCESSIBLE COUNTER LAVATORY**

SCALE: 3/4" = 1'-0"

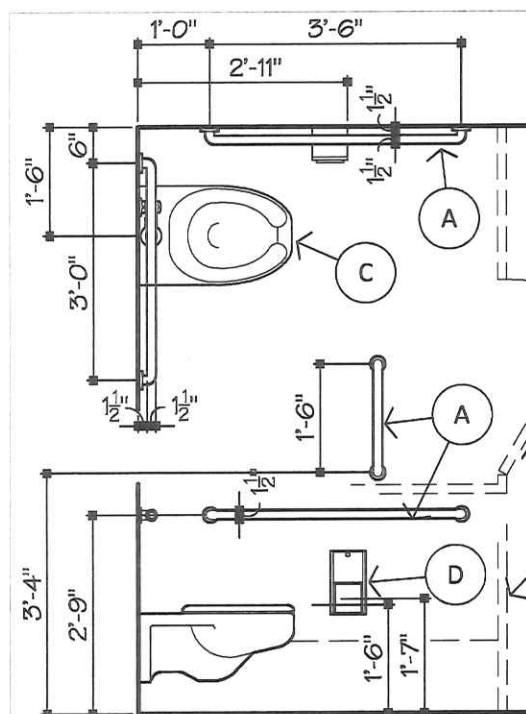


**ACCESSIBLE TURNING DETAIL**

SCALE: NONE

**ACCESSIBLE REACH DETAIL**

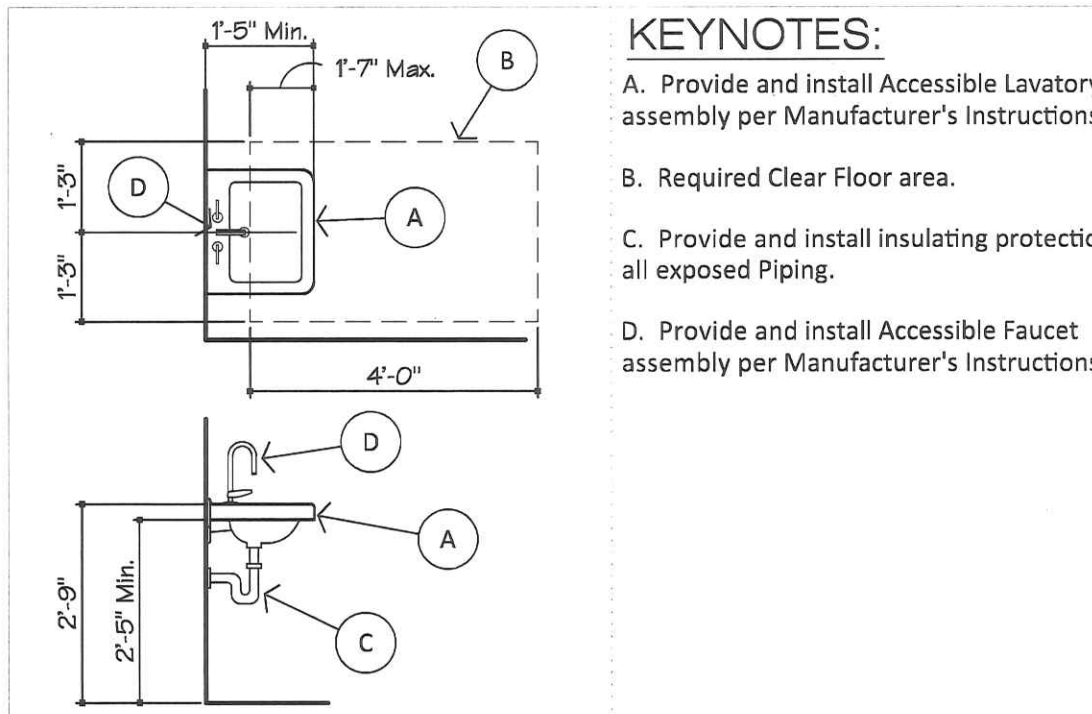
SCALE: NONE



- KEYNOTES:**
- A. Provide and install 1 1/2" diameter Grab Bar per Manufacturer's Instructions, typical.
  - B. Toilet Partition where shown on Plans.
  - C. Provide and install Approved Accessible Toilet Assembly per Manufacturer's Instructions, typical.
  - D. Provide and install Toilet Paper Dispenser per Manufacturer's Instructions, typical.

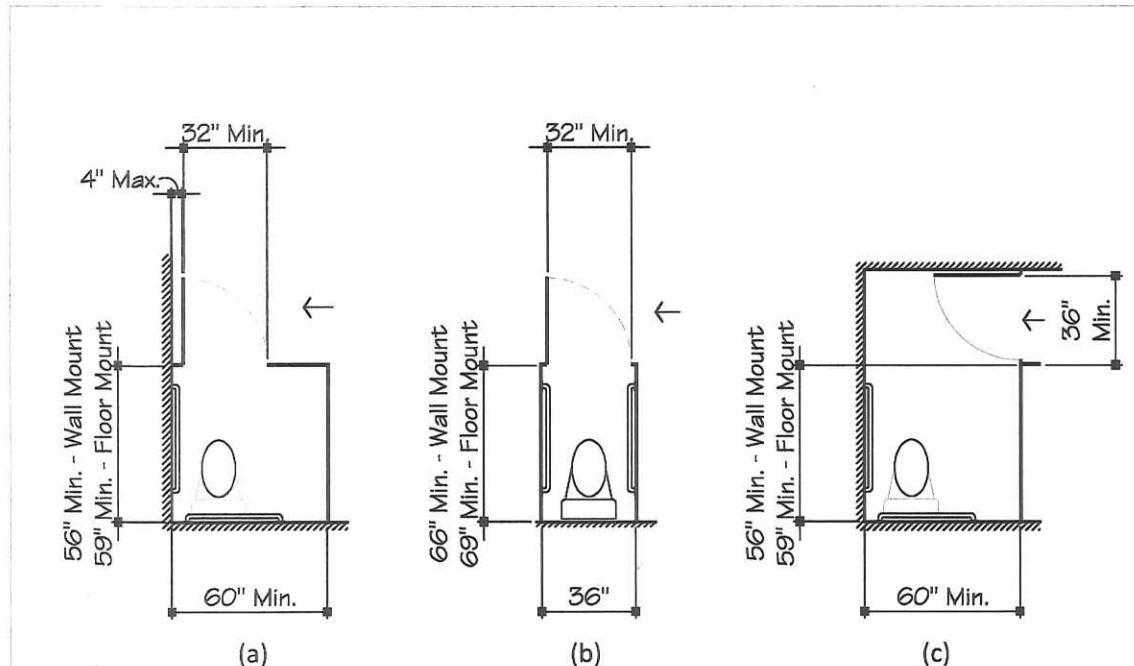
**ACCESSIBLE WATER CLOSET DETAIL**

SCALE: 3/8" = 1'-0"



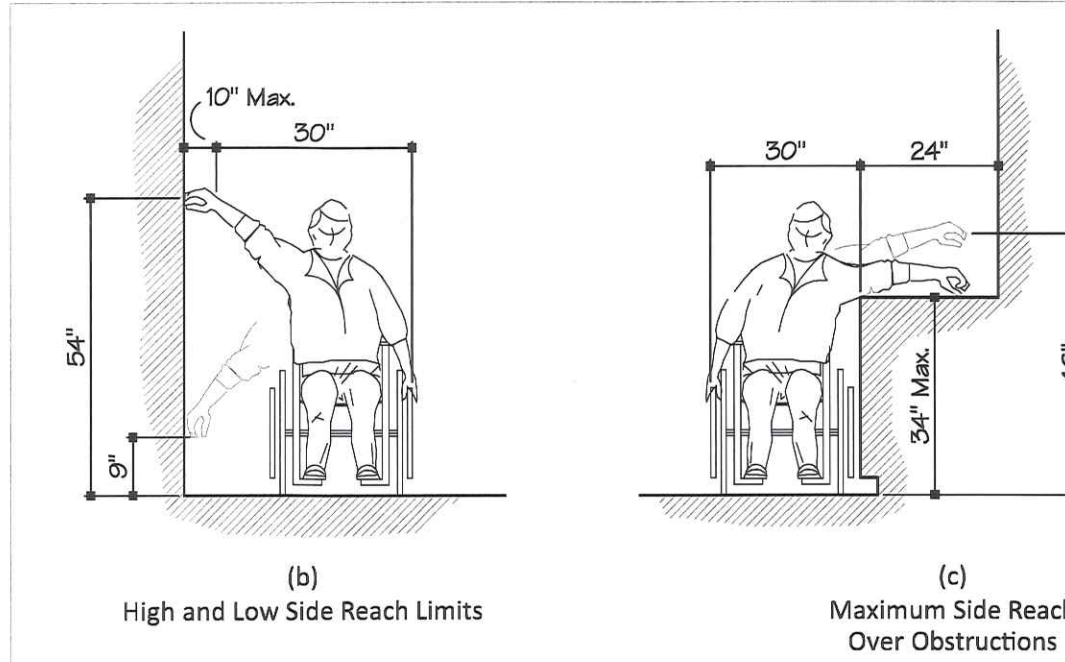
**ACCESSIBLE LAVATORY DETAIL**

SCALE: 3/8" = 1'-0"



**ACCESSIBLE TOILET STALLS**

SCALE: NONE

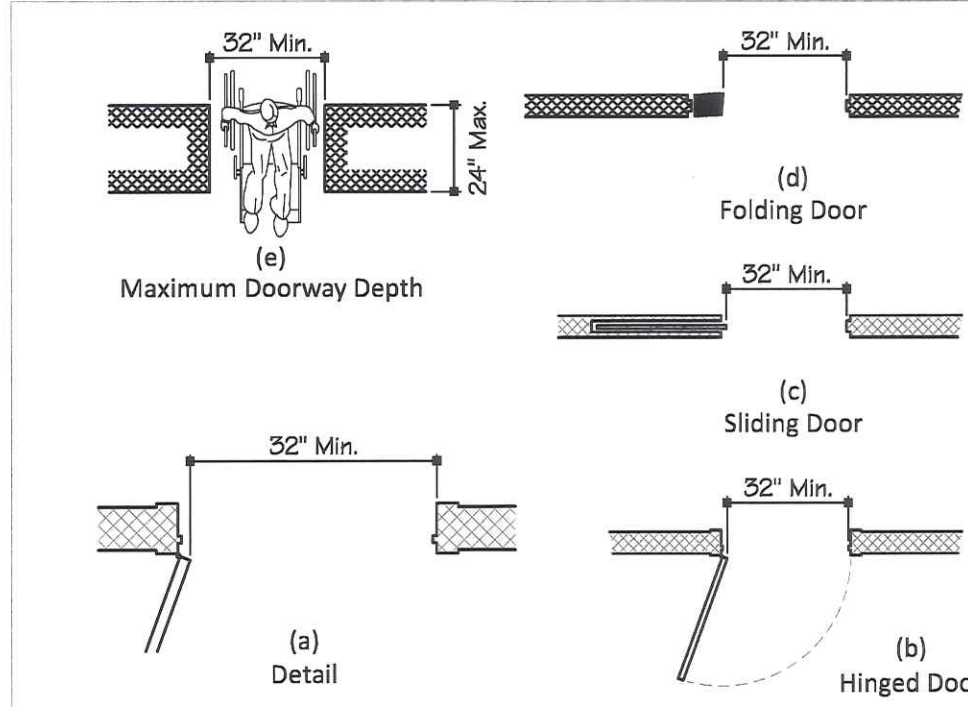


**High and Low Side Reach Limits**

**Maximum Side Reach Over Obstructions**

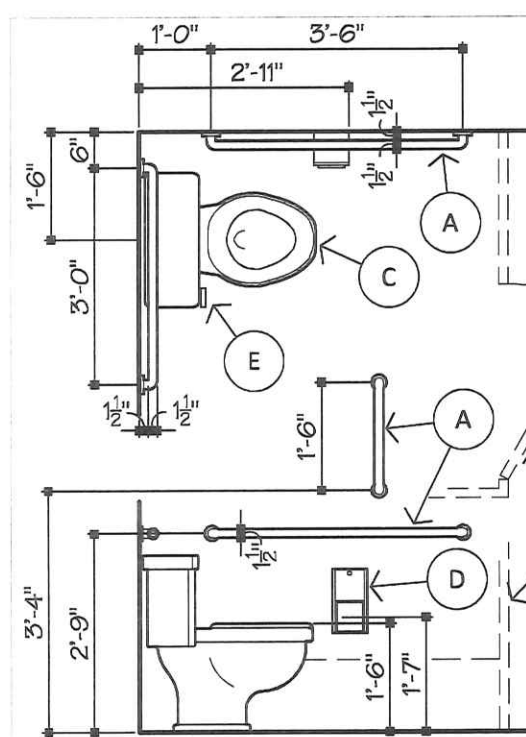
**ACCESSIBLE REACH LIMITS**

SCALE: NONE



**ACCESSIBLE DOOR CLEARANCES**

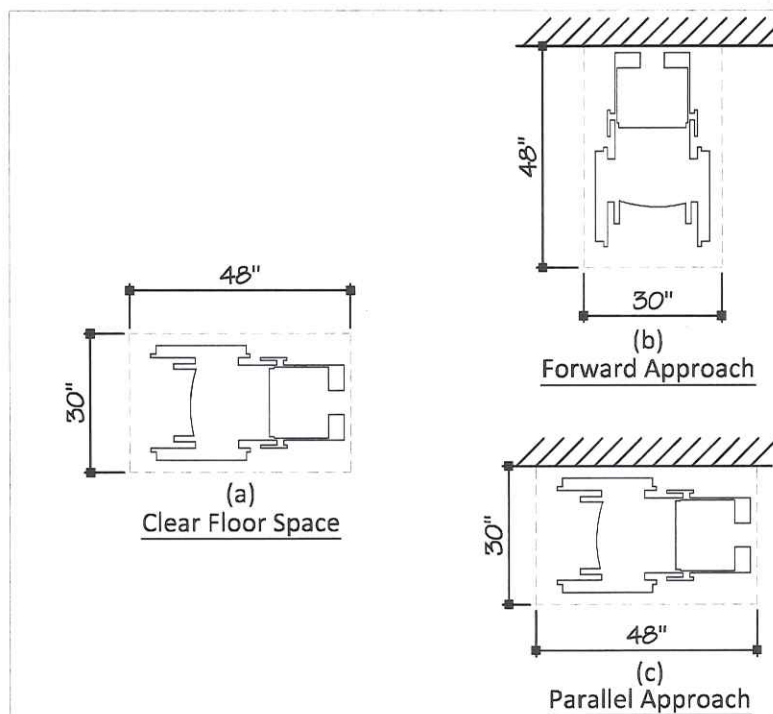
SCALE: None



- KEYNOTES:**
- A. Provide and install 1 1/2" diameter Grab Bar per Manufacturer's Instructions.
  - B. Toilet Partition where shown on Plans.
  - C. Provide and install Accessible Water Closet assembly per Manufacturer's Instructions.
  - D. Provide and install Toilet Paper Dispenser per Manufacturer's Instructions.
  - E. Flush Control.

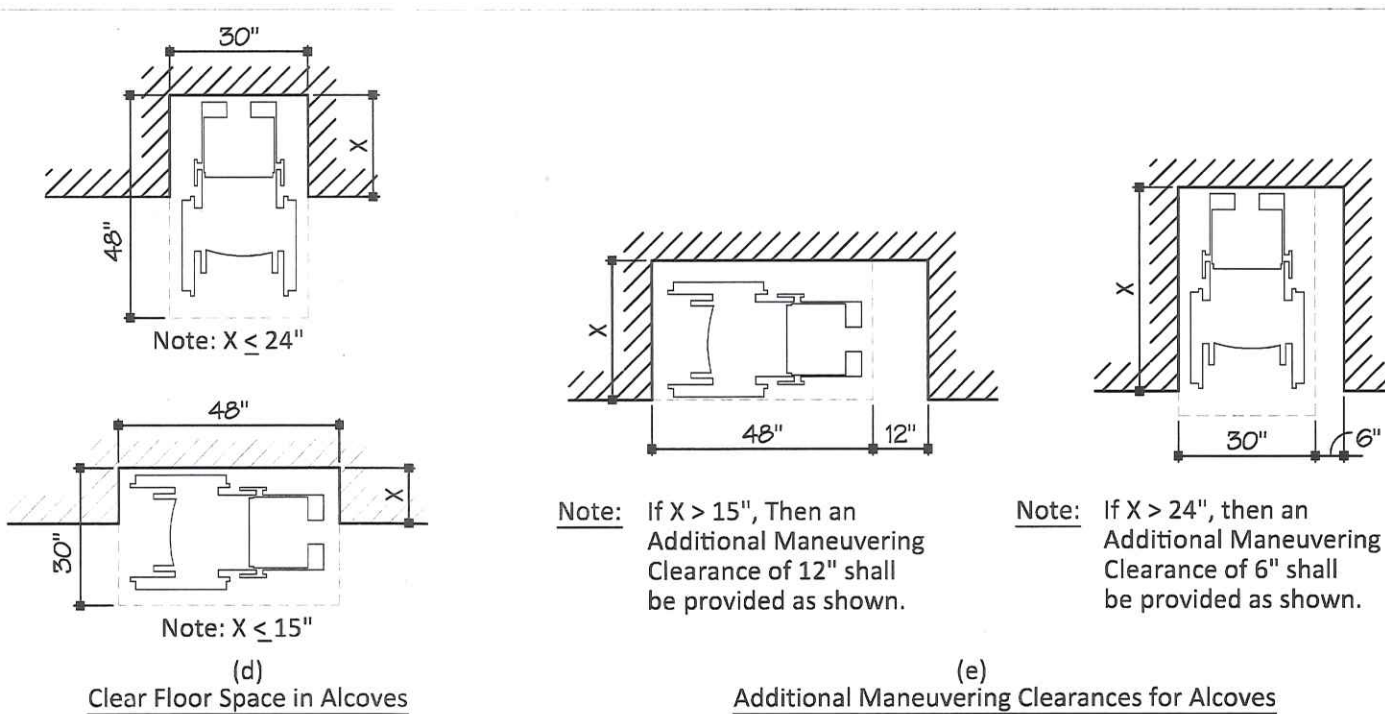
**ACCESSIBLE WATER CLOSET DETAIL**

SCALE: 3/8" = 1'-0"

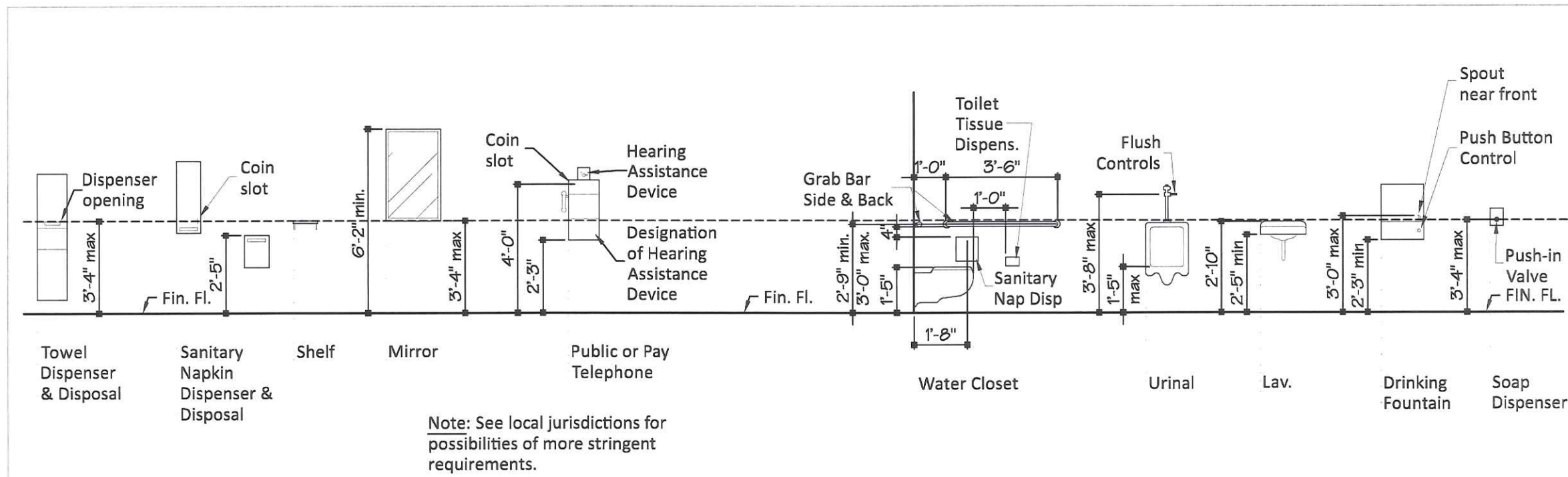


**WHEELCHAIR CLEAR FLOOR SPACE**

SCALE: NONE



**Clear Floor Space in Alcoves**



**ACCESSIBLE MOUNTING HEIGHTS FOR FIXTURES AND ACCESSORIES**

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

New Restaurant for  
Outlaw Attitude BBQ



215 West Front St.,  
Napoleon, Ohio

VDS No.: 170827

Signature:  
Date:  
Richard Livecchi, AIA, NCARB  
License # 9812  
Expires: 12/31/2019







## FOUNDATION PLAN KEYNOTES:

A. Provide and install round Concrete Piers - extend Piers to 2" minimum above Grade, typical.

B. Existing Foundation Wall to remain, typical.

C. New exterior grade Deck Posts to be centered in Concrete Pier, typical.

D. Provide and install Reinforced 4" air-entrained Concrete Floor Slab over 4" minimum Compacted Fill at ½" below finish floor sloped to drain away from the Building, typical.

E. Repair existing Concrete Floor Slab in Kitchen area as necessary for new Flooring - see Room Finish Schedule for additional information.

## FOUNDATION NOTES:

1. Interior Concrete Floor Slab shall be Reinforced Concrete with 6x6 #10 gauge Welded Wire Fabric (WWF) over 4" Granular Fill over 6 mil Vapor Barrier over 4" minimum Compacted porous Fill.

2. Exterior Concrete Slab shall be air-entrained Fiber-Reinforced Concrete over 4" minimum Compacted porous Fill.

3. Crosshatched areas designate areas below top of Foundation Wall for Supported Slabs /Brick Ledges.

4. Garage slab shall slope towards the Overhead Door openings for drainage.

5. All concrete Footings for walls, columns, and piers shall have 12" minimum thickness.

6. The following criteria is used for selecting Footing Sizes:

Concrete Strength: 3000 psi  
Soil Capacity: 2000 psf

7. All Grades outside of Foundation Walls shall slope away from the walls to form positive site drainage.

## DIMENSIONS:

1. Contractor to verify all dimensions prior to the start of the Project and adjust items as necessary to achieve the Intent of the Construction Documents. Major discrepancies should be reported to the Architect.

## CONCRETE:

1. Concrete work shall conform to the "Specifications for Structural Concrete for Buildings", ACI 301 including all modifications.

2. Concrete shall be controlled Stone, Gravel or Slag to test at least 3000 psi in Standard Cylinder Test at 28 days and have not less than 5½ sacks of Cement per Cubic Yard of Concrete and not over 6½ Gallons of Water per sack of Cement. Maximum Slump shall be 4".

3. Scream and float Slab to bring surface to the required level. Steel trowel Slab to produce a smooth hard surface.

4. Curing Compound to conform to ASTM C-309, Type 1, which contains no wax.

5. Reinforcing Mesh shall be ¾" long Fibers added at a rate of one pound per Cubic Yard of Concrete.

## KEYNOTES:

A. Provide and install Expansion Material per Manufacturer's Instructions level with the Slab, typical.

B. Provide and install Reinforced Concrete Slab per Industry Standards, typical.

C. Provide and install #4 Bars horizontal @ 24" o.c. or approved method.

D. Compacted Granular Fill, typical.

## KEYNOTES:

A. Sawcut Control Joint and fill with joint filler where exposed (used subfloor filler at Tile and Carpet locations), typical.

B. Provide and install Reinforced Concrete Slab per Industry Standards, typical.

C. Compacted Granular Fill, typical.

## 03200 REINFORCING STEEL

1. All Concrete shall be reinforced and fabricated in accordance with CRSI "Manual of Standard Practice".

2. Reinforcement Steel shall be new deformed, intermediate grade Steel, conforming to ASTM A-615 grade, 40.

3. Deformation shall conform to ASTM A-305, except ¾" bars.

4. Welded Wire Fabric shall conform to ASTM A-185.

5. Tie Wire shall be annealed copper-bearing steelwire, at least 16 gauge.

6. All Reinforcing shall be new, clean free from oil, dirt, loose mill scale, excessive rust, mortar, or other coatings that would destroy or reduce the bond.

7. The bending and placing of all Reinforcement shall conform to the "Manual of Standard Practice" of the American Concrete Institute. Bends shall be made around a pin having a diameter of not less than four times the bar diameter for the other bars except for bars larger than 1" which shall be eight times the bar diameter. Bars shall be bent cold.

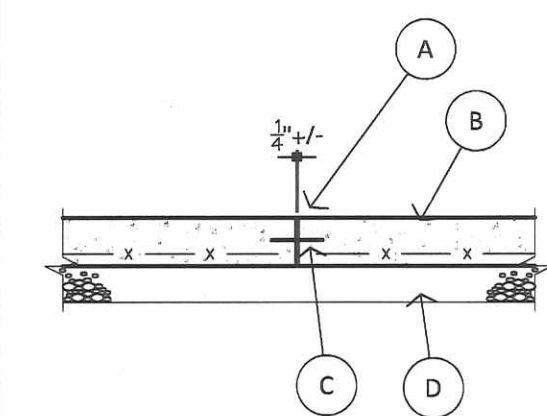
8. Reinforcing shall be accurately place in accordance with the Drawings and shall be securely tied in position with at least No. 16

gauge annealed wire at all bar intersections. Metal chairs and bolsters shall be used to hold all steel above the form bottoms at the proper distance. Metal spacers shall be used to secure the proper spacing of the steel. Precast concrete blocks shall be used to support reinforcing steel off the ground footings and off the soffit of concrete exposed to weather. The clear distance between parallel bars shall not be less than 1½ times the bar diameter, but in no case less than 1½" nor less than 1½ times the maximum size of course aggregate.

9. Unless otherwise shown or noted, cover to reinforcing bars shall be as follows:

- When placed against ground: 3" min.
- When placed against form at ground condition: 2" min.
- All other conditions: 1½" min.

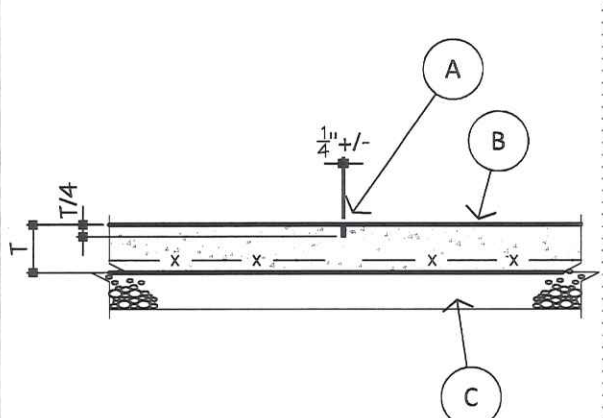
10. Splices shall be made with a lap of at least 30 bar diameter (40 diameters in masonry) unless noted otherwise. The bars shall be place in contact and wired not less than the minimum clear distance to the other bars and to the surface of the Concrete. In general, stagger splices at least 4'-0". Splice wire mesh with a lap at least the dimension of the mesh +2".



(CCJ)

## CONCRETE CONSTRUCTION JOINT

SCALE: 3/8" = 1'-0"



(CJ)

## CONCRETE CONTROL JOINT

SCALE: 3/8" = 1'-0"

## 03300 CAST-IN-PLACE CONCRETE

1. All Concrete work shall be done in accordance with the latest edition of the ACI Code and the ACI "Manual of Concrete Practice".

2. Obtain information and instructions from other trades and suppliers in ample time to schedule and embedment into concrete with other trades, install all sleeves and/or block-outs as may required.

3. Cement shall be standard brand, domestic Portland Cement conforming to ASTM C-150 Type V. Total alkali content not to exceed six-tenths (6/10) of one percent.

4. Aggregates shall conform to ASTM C-33.

5. Water shall be potable type.

6. Curing Compound shall conform to ASTM C-109. The compound shall not be of wax base and shall not impair in any way the application of Floor Coverings.

7. Liquid Sealer Hardener shall be an approved water clear, non-yellowing sealer hardener guaranteed for three years by the Manufacturer. Two coat application.

8. Vapor Barrier shall be 6 mil "Visqueen" polyethylene film. Lap side seams a minimum of 6".

9. Concrete Maximum Slump shall be in conformance with ASTM C-143, and as follows:

Concrete Cast on Metal Deck.....3" max  
Precast Wall Panels.....4" max  
All other concrete.....4" max

10. Grout shall be composed of one (1) volume

of Portland Cement and three (3) volumes of fine aggregate and only enough water to make the mixture flow under its own weight.

11. Do not use Grout or Drypack that has been mixed longer than thirty (30) minutes.

12. Conform to ACI 318.63 for embedded conduits and piping, except as modified by Drawings. Contractor shall carefully check with all other trades before completing forms and placing concrete, to determine that all embedded items are in place. Contractor shall set all miscellaneous anchors, bolts, ties, dowels, plates, etc., necessary to complete work as detailed, except as modified herein before. See that all embedded items are clean and free from any coating which would reduce their bond.

13. Forms shall be constructed of Wood built true to line and grade, mortar tight, and sufficiently rigid to prevent excessive deflection between supports. The arrangement and construction of all anchorages, sleeves, inserts, bolts, conduits, or other devices shall be installed prior to the placing of Concrete.

14. All Exposed Concrete shall be formed with ¾" (minimum) Douglas Fir "plyform" placed with the grain of the outer plys in the direction of the span. The supporting studs or joists shall be spaced not more than twelve inches (12") center to center. The surfaces of the forms, shall be smooth and free from irregularities. Wall form panels shall be placed with their long dimension horizontal and so as to form continuous horizontal joints. All exposed sharp corners shall be formed with ¾" chamfers or fillets.

15. Form ties or bolts shall be used to fasten the forms. The shall be of sufficient strength and

number to prevent spreading of the forms. They shall be of such type that they can be entirely removed or cut back on inch (1") or more from the finished concrete surface. Wire ties will not be permitted.

16. Forms shall be coated with a non-staining form oil applied shortly before the concrete is placed, but prior to placing the Reinforcement.

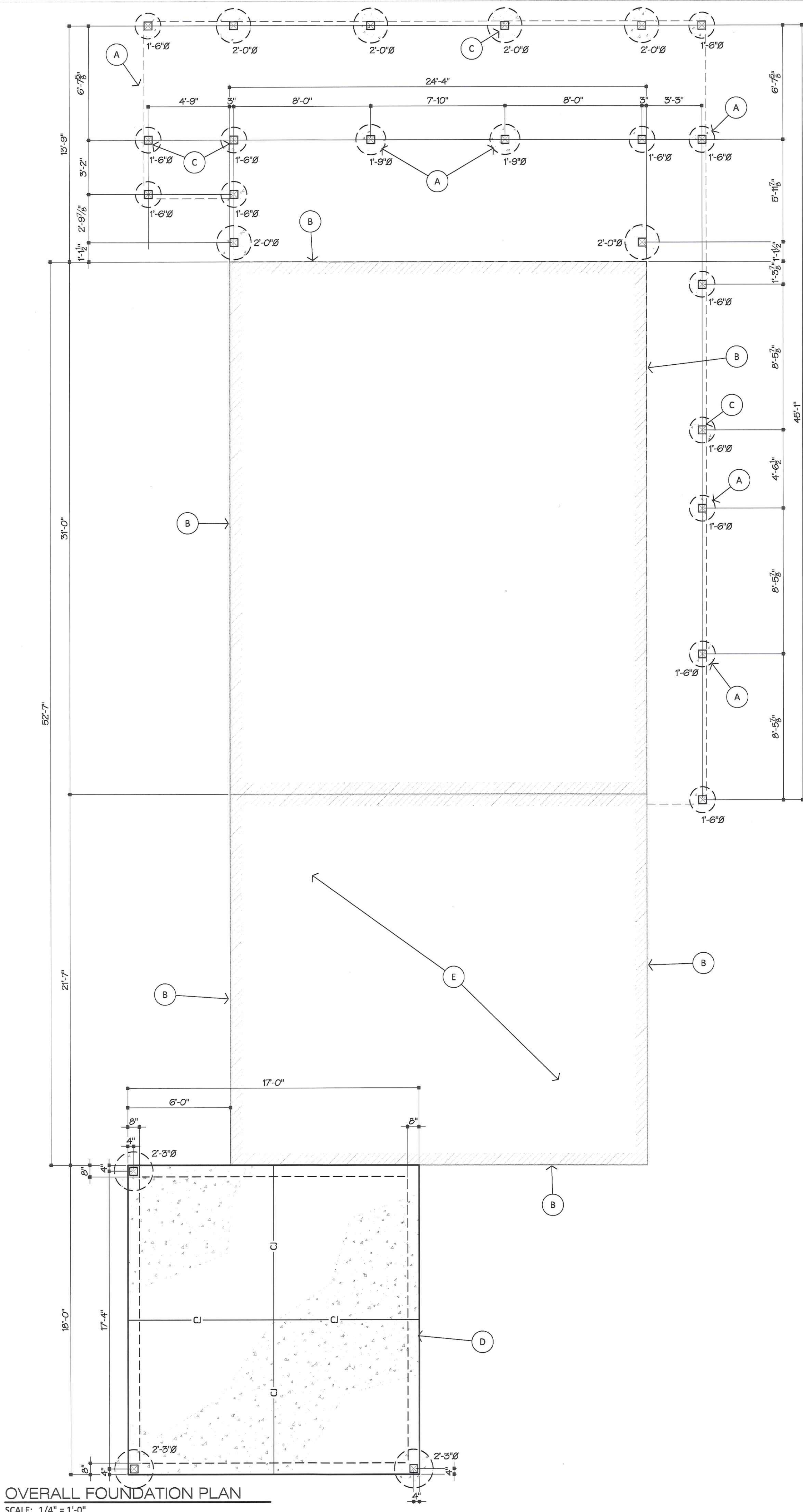
17. All dirt, chips, sawdust, nails and other foreign matter shall be completely removed from the forms before concrete is placed. Forms previously used shall be thoroughly cleaned of all dirt, mortar and other foreign matter before being reused.

18. The forms shall not be removed until the concrete has sufficiently hardened to permit their removal with safety. All removal shall be accomplished in such a manner as to prevent injury.

19. Concrete shall be delivered to the point of placing so as not to fall vertically more than 4 feet, and shall be deposited so that the surface is kept horizontal and level, a minimum amount being allowed to flow from one portion to another. Deposit concrete in forms as nearly as possible in its final location. Under no circumstances allow concrete to be deposited which partially hardened.

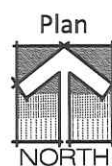
20. Vibrate concrete internally (not thru form) supplement with hand rodding. Provide one vibrator per 30 cubic yards of concrete being placed. Keep stand-by unit at job, ready for use.

21. Concrete shall not be placed on frozen ground, nor shall it be mixed or placed while the atmospheric temperature is below 35° F., unless

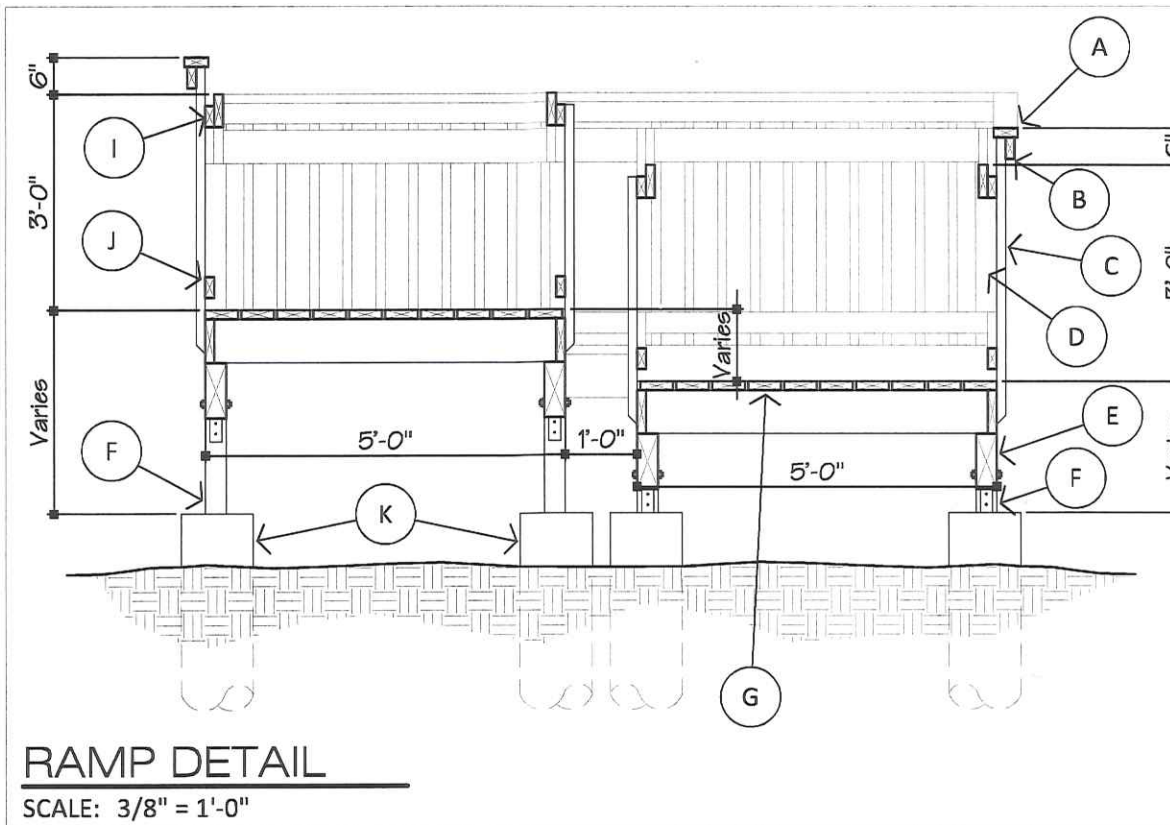


## OVERALL FOUNDATION PLAN

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

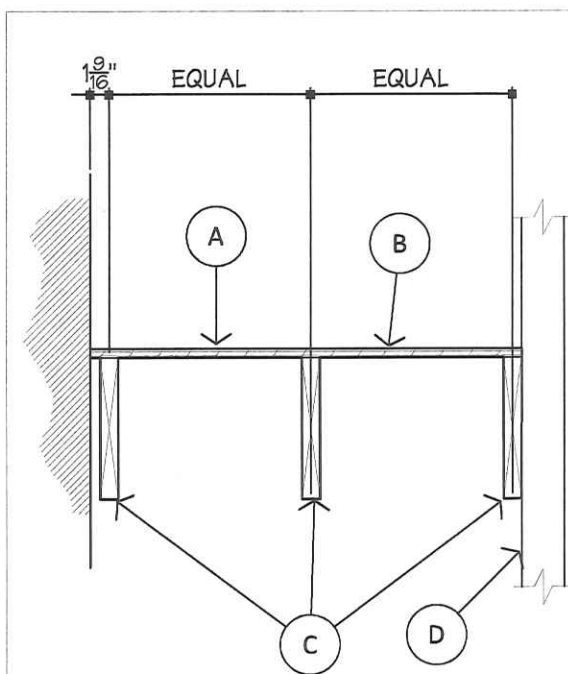






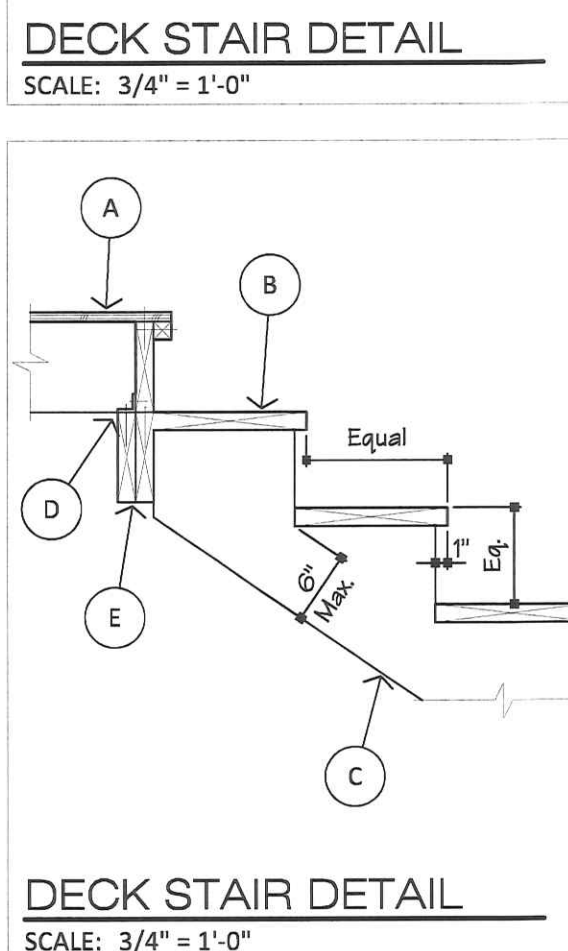
#### KEYNOTES:

- Cut 2x6 Exterior Grade Guard Rail.
- 2x4 Exterior Grade Wood.
- 2x2's @ 4"o.c. screwed with 2 screws top and bottom - use Exterior Grade Wood.
- 4x4 Exterior Grade Wood Post.
- 4x10 Beam or Approved Equal support held by Simpson EPC 68 Post Cap with (2) 3/8" Ø Bolts into Post and (1) 3/8" Ø Bolt into Beam.
- Simpson CB 88 Column Base.
- 2x6's or 5-Quarters Boards @ 6"o.c.
- 2x8's @ 24"o.c. framed with 2x8 rough sawn transition Boards - see Plans.
- 2x6 Handrail with 2x4 backer screwed attached to supports top and bottom.
- 2x4 Exterior Grade Wood Edge Protection.
- Concrete Piers @ 12"o.c. each side of Ramp and Landings to extend to 4'-0" minimum below Grade.



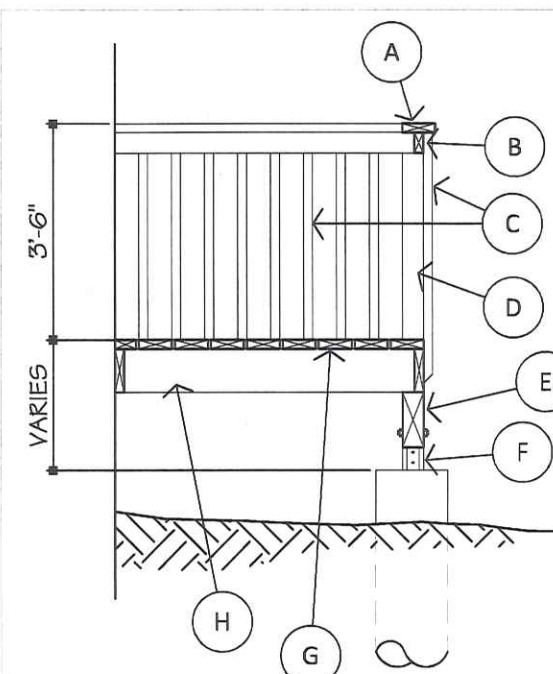
#### KEYNOTES:

- Exterior Grade Wood Decking, typical.
  - Provide and install 2x Exterior Grade Treads per Manufacturer's Instructions, typical.
  - Provide and install 2x Exterior Grade Stringers per Manufacturer's Instructions, typical.
  - Post or Support.
- Note: See Drawings for Riser Heights and Tread Lengths, typical.



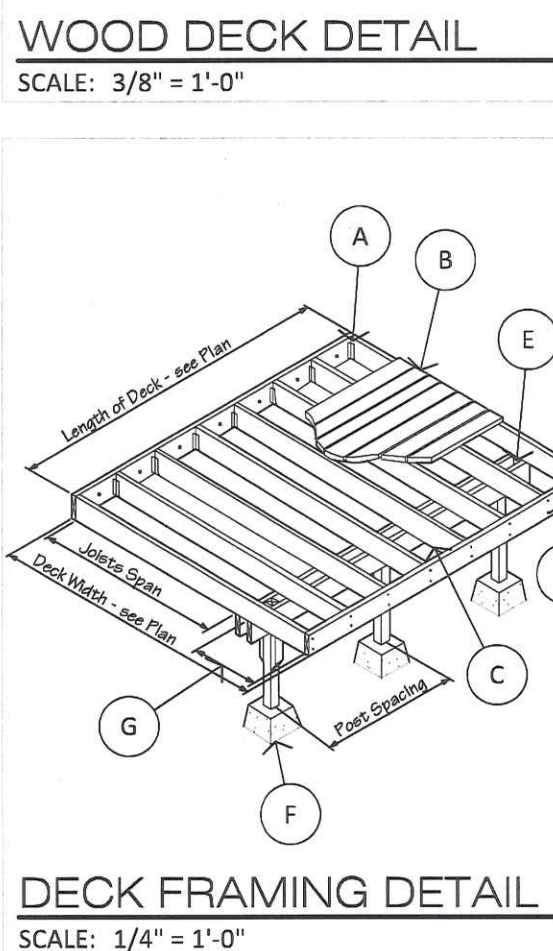
#### KEYNOTES:

- Exterior Grade Wood Decking, typical.
  - Provide and install 2x Exterior Grade Treads per Manufacturer's Instructions, typical.
  - Provide and install 2x Exterior Grade Stringers per Manufacturer's Instructions, typical.
  - Provide and install Simpson A35 @ 24"o.c. per Manufacturer's Instructions, typical.
  - Wood Framing.
- Note: See Drawings for Riser Heights and Tread Lengths, typical.



#### KEYNOTES:

- Provide and install 2x6 Exterior Grade Guard Rail, continuous.
- Provide and install 1x4 Exterior Grade Wood.
- Provide and install Exterior Grade Wood 2x2's @ 4"o.c. screwed with 2 screws top and bottom, typical.
- Provide and install 4x4 Exterior Grade Wood Post.
- Provide and install 4x10 Beam or Approved Equal support held by Simpson EPC 68 Post Cap with (2) 3/8" Ø Bolts into Post and (1) 3/8" Ø Bolt into Beam.
- Simpson CB 88 Column Base.
- 2x6's or 5-Quarters Board @ 6"o.c., typical.
- 2x8's @ 24"o.c. Framed with 2x8 rough sawn transition boards, typical - see Plans.



#### KEYNOTES:

- Provide and install Framing Angle or Joist Hanger per Manufacturer's Instructions, typical.
- Provide and install Decking per Manufacturer's Instructions- screw attached, typical.
- Provide and install Joists per Manufacturer's Instructions, typical.
- Provide and install Rim Joist per Manufacturer's Instructions, typical.
- Double Joist or Stringer Beam.
- Provide and install Pier Block per Manufacturer's Instructions and where permitted by the Local Jurisdiction, typical.
- Cantilever - see Plan.

#### 06150 CARPENTRY

1. Use adequate numbers of skilled workmen who are thoroughly trained and experienced in the necessary crafts and who are completely familiar with the specified requirements and the methods needed for proper performance of the Work of this Section.

2. Identify Plywood as to species, grade, and glue type by the Stamp of the American Plywood Association. Identify other materials of this Section by the appropriate Stamp of the approved agency.

3. Provide materials in the quantities needed for the Work shown on the Drawings, and meeting or exceeding the following standards of quality. Lumber shall be Douglas Fir grade stamped as follows unless otherwise noted:

- 2x4 studs, blocking, bridging, stripping, ceiling and floor joists and rafters: No. 1
- 2x6 and larger floor (or platform) joists: No. 1
- 2x6 and larger studs, blocking, bridging, joists and rafters: No. 2
- 3x4 or 4x4 posts and headers: No. 2
- 4x6 & larger beams, posts & studs: No. 1
- Sills: 2x6 and larger - No. 2 Pressure Treated Douglas Fir or Hem Fir 2x4 - No. 1 Pressure Treated Douglas Fir or Hem Fir.

4. All lumber incorporated in the permanent work shall be kiln dried to a maximum moisture content of fifteen percent (15%).

5. Plywood shall be Douglas Fir conforming to U.S. Product Standard P.S. (latest edition). Each sheet shall be grade marked by the American Plywood Association as follows:

- Roof Sheathing: CD
- Exterior Exposed Wall Sheathing: A-C
- Exterior Concealed Wall Sheathing: "Structural 1", C-D

6. Light-gauge fasteners, including joist hangers, clips, etc., shall be manufactured by the Simpson Company, or equal.

7. Power Driven Fasteners shall be "Ramset", "Hilti" or equal and shall be used only where

indicated on the Plans but not closer to the edge of any concrete than recommended by the manufacturer nor in any event closer than 6 inches.

8. Insulating Building Board shall be one-half inch (1/2") thick building board, square edges as manufactured by Celotex Corporation. Sheets shall be 4'x 8' applied vertically.

9. Produce joints which are tight, and well nailed, with members assembled in accordance with the Drawings and with pertinent Codes.

10. Select individual pieces so that knots and obvious defects will not interfere with placing bolts or proper nailing, and will allow making of proper connections. Cut out and discard defects which render a piece unable to serve its intended function. Lumber may be rejected, whether or not it has been installed, for excessive warp, twist, bow, crook, mildew, fungus, or mold, as well as for improper cutting and fitting.

11. Make bearings full unless otherwise indicated on the drawings.

12. Install blocking as required to support items of finish and to cut off concealed draft openings, both vertical and horizontal, between ceiling and floor areas.

13. On framing members to receive a finished surface, align the finish subsurface to vary not more than 1/8" from the plane of surfaces of adjacent furring and framing members.

14. Place plywood with face grain perpendicular to supports and continuously over at least two supports, except where otherwise shown on the Drawings. Center joints accurately over supports, unless otherwise shown on the Drawings.

15. In horizontal plywood diaphragms, no panel less than 24 inches wide shall be used. In vertical plywood diaphragms, no panel less than 12 inches wide shall be used.

16. For nailing conditions provide penetration

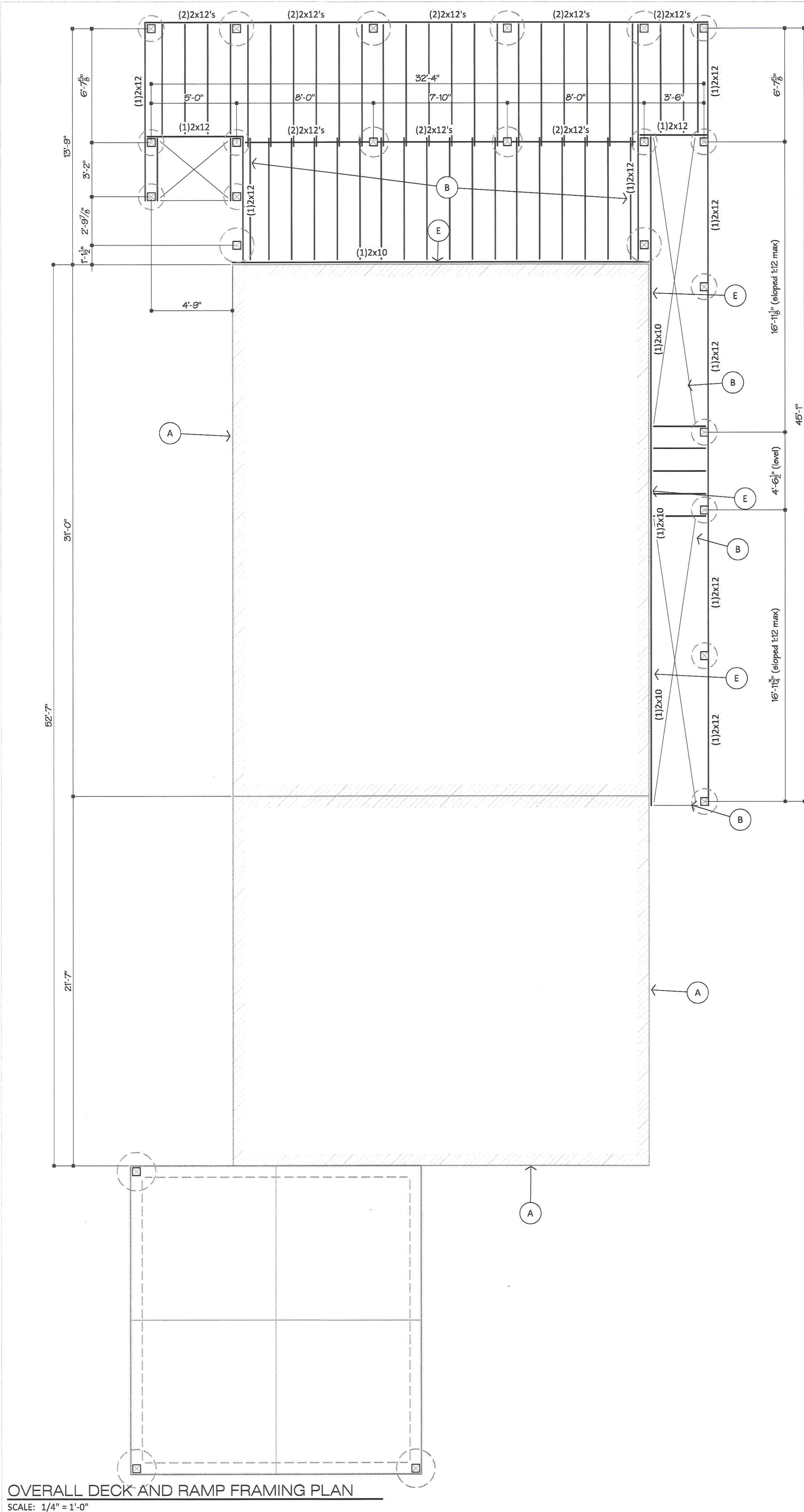
into the piece receiving the point of not less than 1/2 the length of the nail or spike, provided, however, that 16d nails may be used to connect two pieces of 2 inch (nominal) thickness. Use nails driven perpendicular to the grain in lieu of toenails unless specifically detailed otherwise.

17. Prebore where nails would otherwise split wood. Remove split members and replace with members complying with the specified requirements. Nail dimensions shall be in accordance with CIBO STD 25-17.

18. Holes for bolts shall be bored true to line and one-thirty-seconds of an inch (1/32") larger in diameter than the bolt except that bolt holes in sills may be 1/16" larger in unfinished unless otherwise noted. Standard cut washers shall be installed under bolt heads and nuts that would otherwise bear on wood surfaces. Bolts and washers shall be furnished by the Contractor and installed by this contractor. Lag screws shall be screwed and not driven into predrilled holes. The predrilled holes shall be 0.75 times the diameter of the screws.

19. Keep the premises in a neat, safe, and orderly condition at all times during execution of this portion of the Work, free from accumulation of sawdust, cut-ends, and debris.

20. All Doors, Windows and Casework Hardware shall be installed so that they may operate freely but not loosely, without sticking or binding, without hinge-bound conditions and with all Hardware properly adjusted and functioning. All millwork shall be neatly installed with any necessary bolting and scribing. No hammer tracks shall be allowed. All trim shall be put on in full lengths without piecing except where the use of single lengths would be impracticable or impossible. In general, but end (where pieced) shall be beveled. All exterior angles shall be mitered and the interior angles of the molded parts coped. All nails shall be set for putty. Anchor securely to wall and floor.



#### STRUCTURAL KEYNOTES:

A. Existing Walls to remain, typical.

B. Provide and install new Exterior Grade 2x8 Wood Floor Joists per Industry Standards, typical.

C. Provide and install new Exterior Grade 5/4 Board Wood Decking per Industry Standards, typical.

Note: Top of Decking shall be 1/2" below Finish Floor, typical.

Note: Field verify elevations for proper Stair and Ramp sizing.

D. Location of Concrete Piers below - see Foundation Drawing for additional information, typical.

E. Provide and install Exterior Grade 2x10 Ledger Board per Industry Standards and connect to the existing Foundation Wall with 1/2" Masonry/ Concrete Lag Bolts @ 16"o.c. or approved equal, typical.

#### FLOOR JOISTS

1. All Floor Joist sizes and spans are based on the Tables from SPRUCE-PINE-FIR TABLE 6/7A

2. The following criteria is used for selecting Floor Joists:

Lumber Type: Spruce-Pine-Fir  
Lumber Grade: No. 2  
Live Load: 100 PSF  
Dead Load: 10 PSF  
Deflection: L/360

3. Contractor to provide Connections for Joists, Beams, and Bearing Walls per Code requirements.

4. Beams and Headers designated on the Drawings supporting Structural Loads are Microlams (TrusJoist/MacMillan) unless noted otherwise.

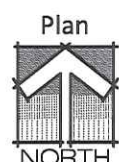
5. Beams and Headers not designated on Drawings shall be (2) 2x12's properly secured unless noted otherwise.

6. Beams and Headers shall have a minimum of (2) secured Wall Studs at each end unless noted otherwise.

7. Provide double Floor Joist beneath or adjacent to walls running parallel with the Floor Joists.

#### DIMENSIONS:

1. Contractor to verify all dimensions prior to the start of the Project and adjust items as necessary to achieve the intent of the Construction Documents. Major discrepancies should be reported to the Architect.







## STRUCTURAL KEYNOTES:

A. Existing Walls to remain, typical.

B. Provide and install new Pre-Engineered Wood Trusses per Manufacturer's Instructions, typical.

C. Provide and install new Exterior Grade Roof Sheathing per Manufacturer's Instructions and rated for 24" spans, typical.

D. Location of Column Posts - see Floor Framing and Foundation Drawing for additional information, typical.

E. Provide and install Exterior Grade 2x10 Ledger Board per Industry Standards and connect to the existing Wall with 1/2" Lag Bolts @ 16" o.c. or approved equal, typical.

## STRUCTURAL LOADS

Floor Live Load: 100 PSF  
Floor Dead Load: 10 PSF

Roof Live Load: 20 PSF  
Roof Dead Load: 10 PSF  
Ground Snow Load: 20 PSF  
Snow Exposure Factor: 0.9 / B  
Snow Importance Factor: 1.0

Basic Wind Speed: 90 MPH  
Wind Importance Factor: 1.0  
Wind Exposure Category: B

Seismic Use Group: I  
Site Class: D

## DIMENSIONS:

1. Contractor to verify all dimensions prior to the start of the Project and adjust items as necessary to achieve the intent of the Construction Documents. Major discrepancies should be reported to the Architect.

## WOOD TRUSSES

Pre-Engineered Wood Truss Construction Documents shall be prepared and Sealed by a Registered Structural Engineer and shall be approved by the Building Official prior to installation. Documents shall include the following information:

- Slope or depth, span and spacing.
- Location of joints.
- Required Bearing widths.
- Design Loads.
- Top Chord Live Load (including Snow Loads).
- Top Chord Dead Load.
- Bottom Chord Live Load.
- Bottom Chord Dead Load.
- Concentrated Loads.
- Wind and Earthquake Loads.
- Adjustments to Lumber and Metal Connector Plate Design Value(s).
- Reaction Forces.
- Metal Connector Plate type, size, thickness or gauge.
- Lumber sizes, species and grades.

- Connection requirements for Truss to Truss Girders; Truss Ply to Ply; and filed species.
- Deflection ratio.
- Axial compression forces in Truss Members.
- Permanent member bracing locations.

Truss Shop Drawings shall be included with the Truss shipment.

## 06300 PREFABRICATED OPEN WEB TRUSSES

1. Provide Prefabricated Trusses where shown on the Drawings, as specified herein, and as needed for a complete and proper installation, including accessory items such as shaped and/or notched plates, drawings load transfer blocks, bridging clips and nails for bearing clip connections.

2. Use adequate numbers of skilled workmen who are thoroughly trained and experienced in the necessary crafts and who are completely familiar with the specified requirements and the methods needed for proper performance of the Work of this section.

3. Lumber defects such as wane or knots occurring in the connector Plate Area must not affect more than ten percent of required Plate Area or number of effective teeth required for each truss member. Connector Plates shall be applied to both faces of truss at each joint, and should provide firm even contact between the plate and the wood. All wood members shall be accurately cut and fabricated so that all members have good bearing and all completed truss units are uniform. See Truss Plate Institute Quality Control Manual QCM-77 for other special requirements.

4. Shop Drawings and Calculations shall be prepared and signed by a state registered Structural Engineer and shall be submitted for review prior to fabrication. Submit to Building Department for approval.

5. Design shall be by the Manufacturer for the specific conditions and Structural Loads required by the Building Code.

6. Chords/Members shall be stress rated Douglas Fir as required by the design calculations. Maximum moisture content - 16%. Each piece shall be grade stamped. (Struct 1 min. grade).

7. All Connector Plates shall be a minimum thickness of 0.036" and shall be manufactured from Steel meeting the requirements of ASTM A446 Grade A, and shall be hot dipped galvanized according to ASTM A525, coating designation G60.

8. All trusses must be securely braced both during erection and after permanent installation in a building in accordance with Bracing Wood Trusses: Commentary and Recommendations (BWT-76) as published by the Truss Plate Institute. Erection bracing shall hold trusses straight and plumb and in safe condition until decking and permanent truss bracing has been fastened forming a structurally sound roof framing system. All erection and permanent bracing shall be installed and all trusses permanently fastened before application of any loads. Permanent structural cross bracing to ensure overall rigidity of the roof system shall be in accordance with Manufacturer. See Truss Design Drawings for any additional special bracing requirements. Materials used in bracing are to be furnished by the Truss Manufacturer. See Plans for minimum bridging requirements.

## ROOF TRUSSES

1. All Roof Trusses shall have Shop Drawings submitted and approved by the local Building Department prior to installation.

2. The following Criteria is used for Trusses:

Lumber Type: Spruce-Pine-Fir  
Lumber Grade: No. 2  
Live Load: 40 PSF  
Dead Load: 15 PSF  
Deflection: L/240

3. Contractor shall provide connections for Rafters, Beams, and Bearing Walls per Code requirements.

4. Beams and Headers are typically designated on the Drawings. Beams and Headers not designated on the Drawings shall be (2) 2x12's.

5. Beams and Headers shall have a minimum of (2) secured Wall Studs at each end unless noted otherwise.

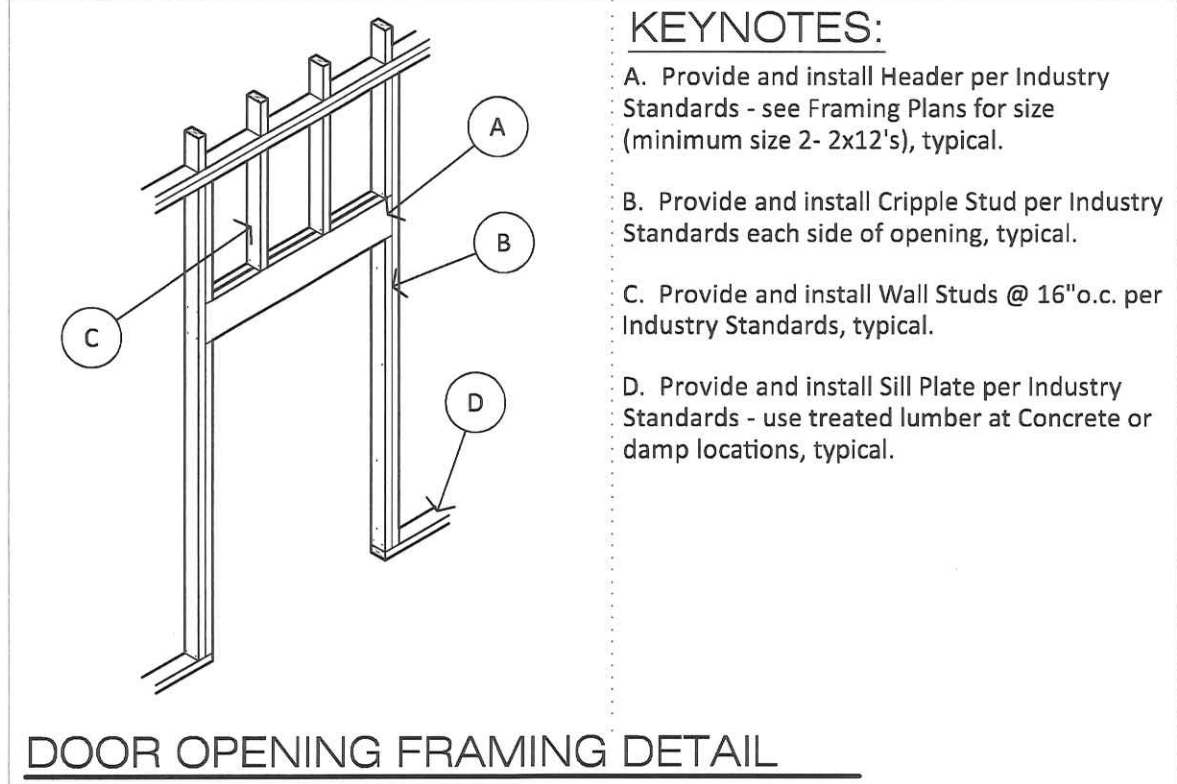
## WOOD COLUMNS

1. The following criteria is used for selecting Posts:

Lumber Type: Spruce-Pine-Fir  
Lumber Grade: No. 2

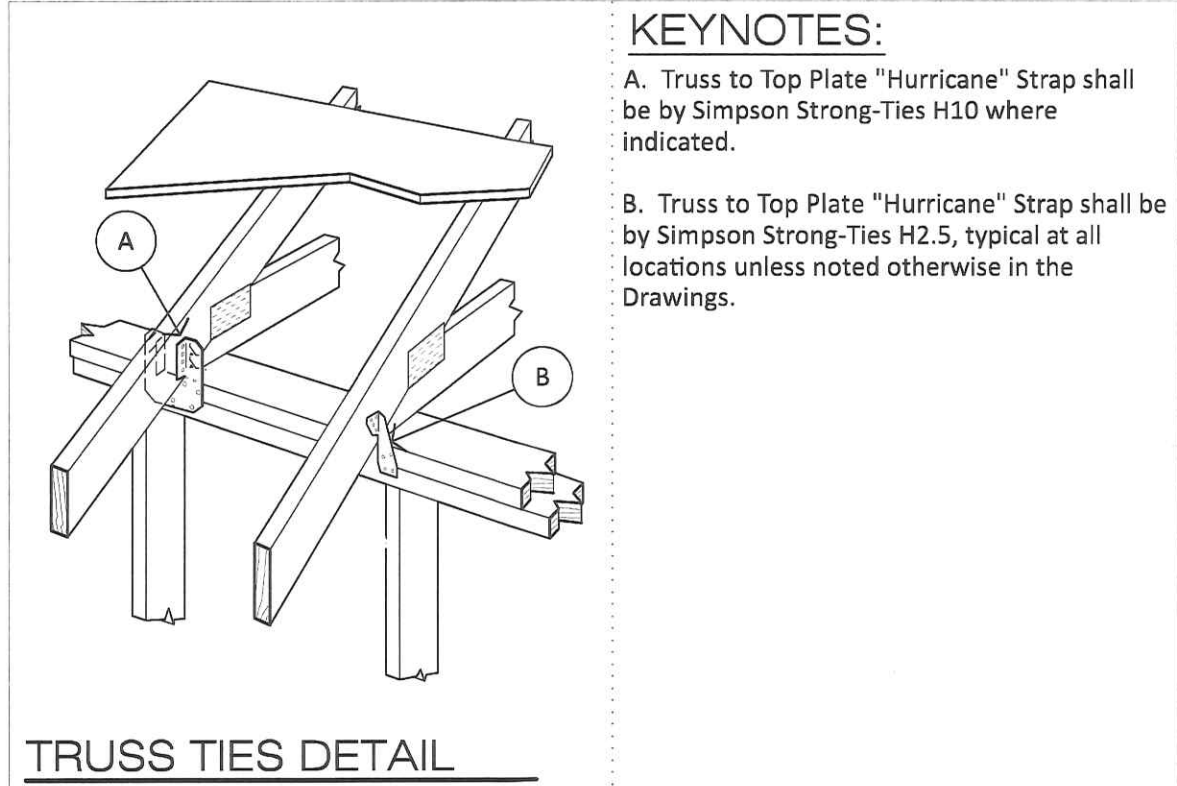
2. Contractor to provide Connections for Rafters, Beams, and Walls per Code Requirements.

3. Beams and Headers shall have minimum of (2) secured Wall Studs at ends unless noted otherwise.



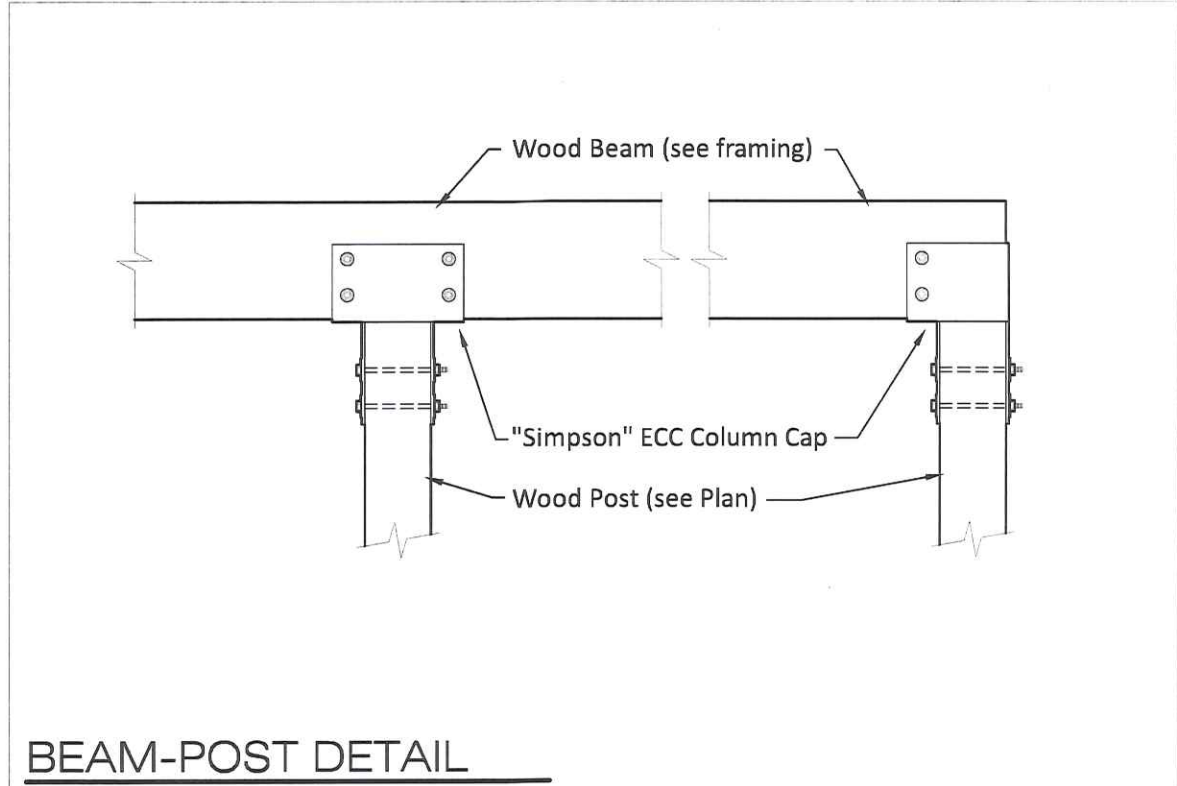
DOOR OPENING FRAMING DETAIL

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



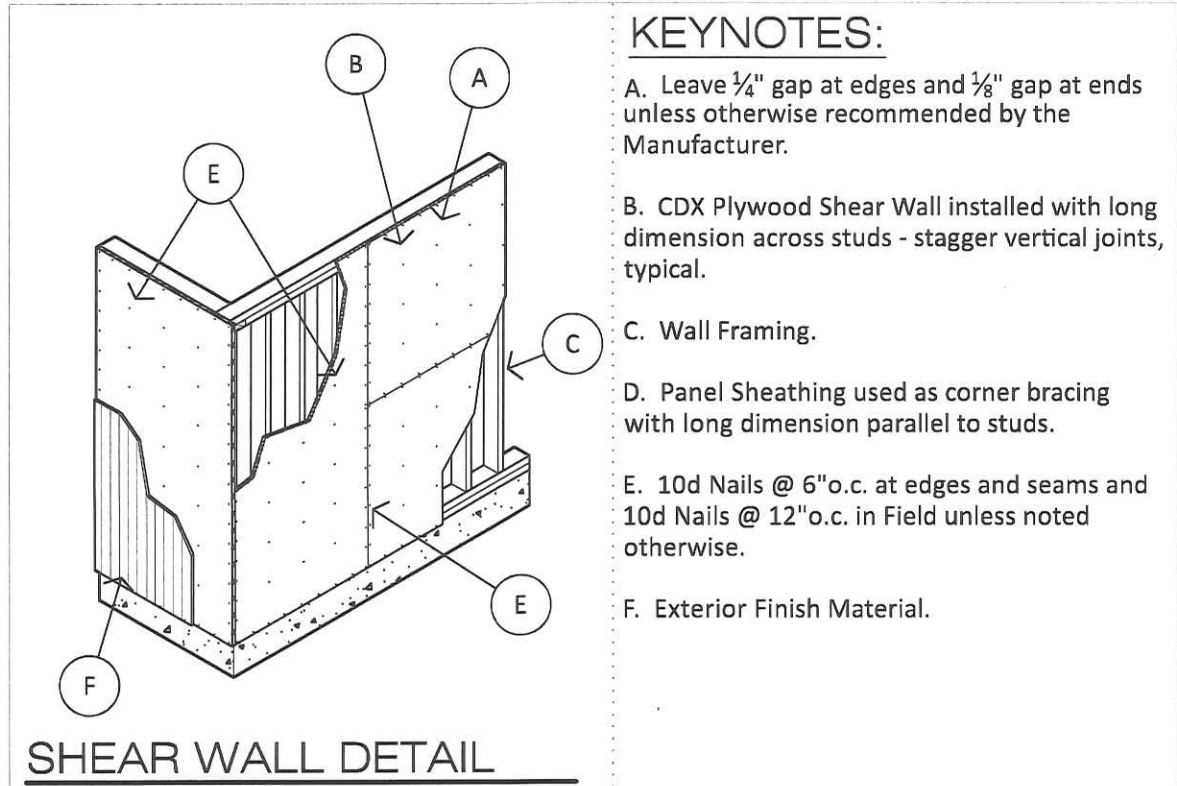
TRUSS TIES DETAIL

SCALE: None



BEAM-POST DETAIL

SCALE: 3/4" = 1'-0"



SHEAR WALL DETAIL

SCALE: None

## KEYNOTES:

A. Provide and install Header per Industry Standards - see Framing Plans for size (minimum size 2- 2x12's), typical.

B. Provide and install Cripple Stud per Industry Standards each side of opening, typical.

C. Provide and install Wall Studs @ 16" o.c. per Industry Standards, typical.

D. Provide and install Sill Plate per Industry Standards - use treated lumber at Concrete or damp locations, typical.

## KEYNOTES:

A. Truss to Top Plate "Hurricane" Strap shall be by Simpson Strong-Ties H10 where indicated.

B. Truss to Top Plate "Hurricane" Strap shall be by Simpson Strong-Ties H2.5, typical at all locations unless noted otherwise in the Drawings.

## KEYNOTES:

A. Leave 1/4" gap at edges and 1/8" gap at ends unless otherwise recommended by the Manufacturer.

B. CDX Plywood Shear Wall installed with long dimension across studs - stagger vertical joints, typical.

C. Wall Framing.

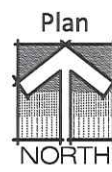
D. Panel Sheathing used as corner bracing with long dimension parallel to studs.

E. 10d Nails @ 8" o.c. at edges and seams and 10d Nails @ 12" o.c. in field unless noted otherwise.

F. Exterior Finish Material.

OVERALL ROOF FRAMING PLAN

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







## ARCHITECTURAL KEYNOTES:

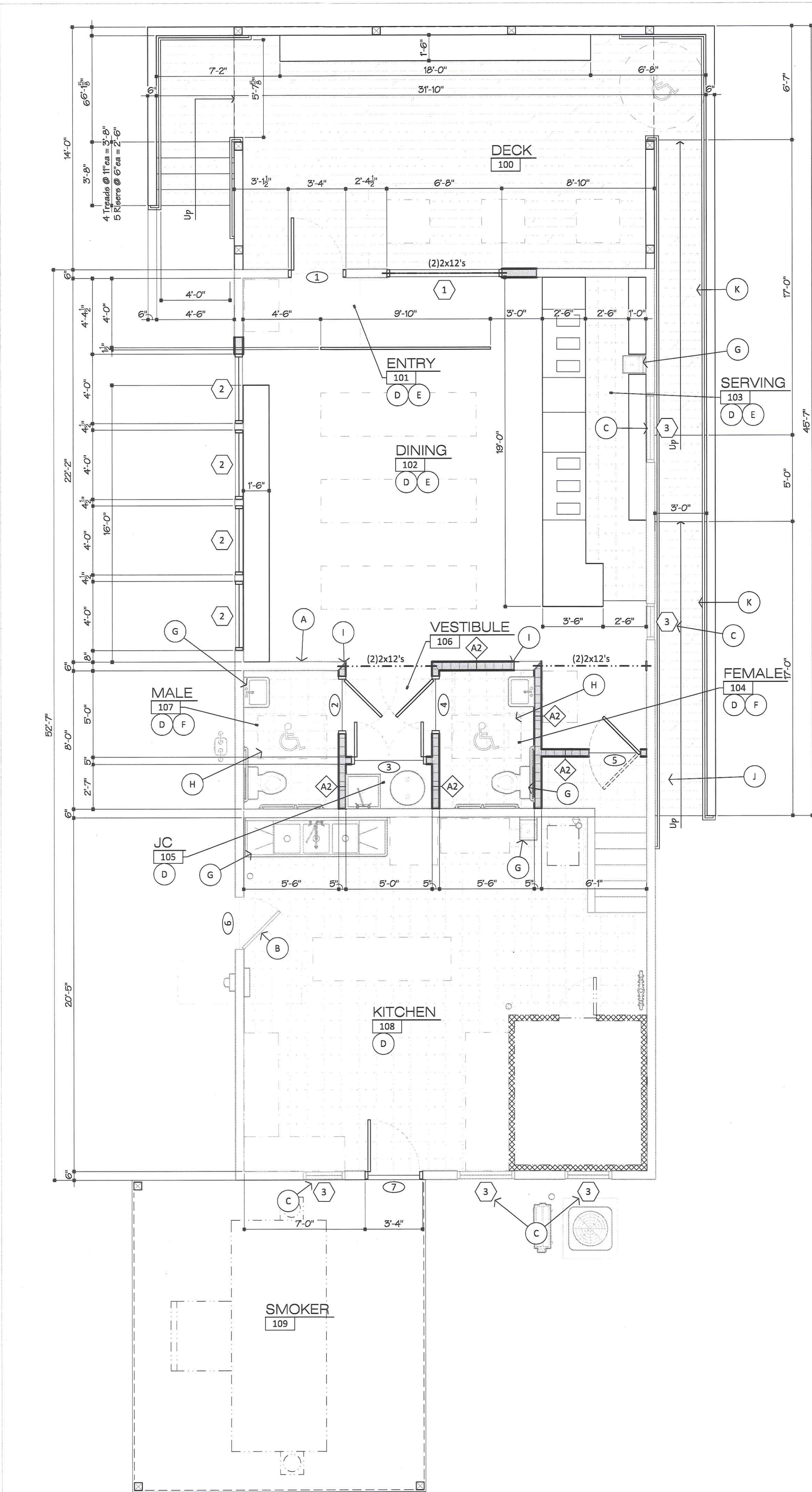
- Existing Wall assembly to remain - patch and repair as necessary for new Finishes, typical.
- Existing Door assembly to remain - verify working condition and repair as necessary, typical.
- Existing Window assembly to remain - verify condition, water-tightness, and repair as necessary.
- Prepare area for new Room Finish - see Room Finish Schedule for additional information, typical.
- Existing area to remain with "Open" ceiling - see Electrical Drawings for Lighting information, typical.
- Provide and install new Acoustical Ceiling Tile system per Manufacturer's Instruction at 8'-0" A.F.F. minimum - see Mechanical and Electrical Drawings for additional information, typical.
- Provide and install new Plumbing Fixture per Manufacturer's Instructions - see Plumbing Drawings for additional information, typical.
- Required Clear Floor Area for Accessibility for Toilet Rooms, typical.
- Align Wood Studs of new Wall with existing Studs, typical.
- Existing Electrical Service location to remain - modify as necessary for new recessed application.
- Provide and install new Accessible Ramp per Industry Standards and the Accessibility Code with Exterior Grade Lumber - field verify elevations and adjust Ramp length accordingly, typical.

## SYMBOL NOTES:

- See Window Schedule on sheet a.1 for additional window information.
- See Door Schedule on sheet a.1 for additional door information.
- See Wall Type Details on sheet a.1 for wall assemblies and ratings data.
- See Room Schedule on sheet a.1 for wall assemblies and ratings data.

## DIMENSIONS:

- Contractor to verify all dimensions prior to the start of the Project and adjust items as necessary to achieve the intent of the Construction Documents. Major discrepancies should be reported to the Architect.



OVERALL ARCHITECTURAL FLOOR PLAN  
SCALE: 1/4" = 1'-0"

## FLOOR PLAN NOTES:

- All ceiling heights shall be existing unless noted otherwise.
- See corresponding Framing Plan for Structural Data including Rafters, Beams, Joists, Headers, Columns, etc.
- See Plan Drawings for Window Designations and Manufacturer.
- All Interior Items including, but not limited to, Cabinets, Finishes, Fixtures, etc. shall be coordinated with the Contractor and the Contractor's allowances.
- All Exterior Walls shall be 5-1/2" and Interior Walls shall be 3-1/2" unless noted otherwise.

## GENERAL NOTES:

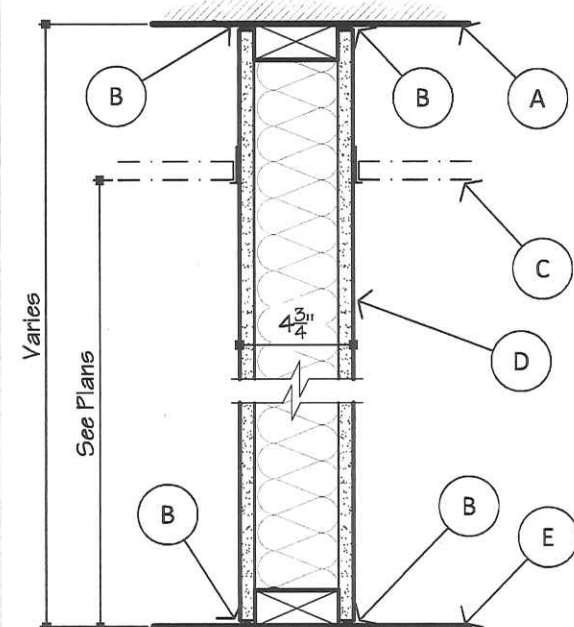
- The intent of the Contract Documents is the finished work shall be complete. Drawings show major work; small items not shown shall be included as necessary to provide a fully complete installation.
- Exact conditions, dimensions and locations must be verified at the site by the Contractor before proceeding with work.
- All work to conform to all applicable Codes.
- All Finish Materials (carpet, wall coverings, etc.) must be in compliance with all Codes having jurisdiction.
- The Contractor will apply and pay for Permits and Inspections required for this Project. The Contractor and Subcontractors shall comply with all local rules and requirements.

## NOTES:

- Door Type Details with Hardware and Door Details are located on Sheet A.5.
- Window Type Details and Window Details are located on Sheet A.2.

## KEYNOTES:

- Line of Structure/ Sheathing above, typical.
- Acoustical Sealant, typical.
- Suspended Ceiling assembly where indicated in the Drawings, typical.
- Provide and install one layer 5/8" Gypsum Board screw attached to each side 2x4 Wood Studs @ 16" o.c. with Sound Attenuation Blankets per Manufacturer's Instructions, typical.
- Line of floor below, typical.



## WALL TYPE - A2

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

Fire Rating: 0  
STC Rating: 35 NGC 2403

## ROOM FINISH SCHEDULE:

- All Walls shall be primed and painted on all visible surfaces. Paint color by Owner from standard commercial grade from Manufacturer's Standard Selections.
- All Rooms receiving new Carpet shall conform to local Building Code requirements. Carpet style and color by Owner from standard commercial grade from Manufacturer's Standard Selections.
- Acoustical Ceiling Tile system shall conform to local Building Code requirements. Ceiling selection by Owner from standard commercial grade from Manufacturer's Standard Selections.
- All Finishes shall be installed per Manufacturer's Instructions and shall meet or exceed local Building Code and Accessibility requirements.

## SCHEDULE:

No.	Name	Ctg	North	South	East	West	Base	Floor	Misc
100	Deck	C7	-	W2	-	-	-	F4	
101	Entry	C7	W2	-	W2	W2	B2	F5	
102	Dining	C7	-	W2	W2	W2	B2	F5	
103	Serving	C7	W2	W2	-	W2	B2	F3	
104	Female Toilet	C2	W3	W3	W3	W3	B2	F3	
105	Janitor's Closet	C4	W3	W3	W3	W3	B2	F4	
106	Vestibule	C2	-	W2	W2	W2	B2	F5	
107	Male Toilet	C2	W3	W3	W3	W3	B2	F3	
108	Kitchen	C3	W3	W3	W3	W3	B2	F3	
109	Smoker	C7	W2	-	-	-	-	F4	

## LEGEND:

Ceilings:	Base:	Notes/ Comments:
C1 - Existing to remain	B1 - Existing to remain	
C2 - Acoustical Ceiling Tile	B2 - Vinyl/ Rubber Base	
C3 - Gypsum Board	B3 - Wood	
C4 - Open / Exposed	B4 - Ceramic Tile	
C5 - Paint	B5 - None	
C6 - Other (see Drawings)	B6 - Other (see Drawings)	
C7 - Perforated Metal Siding		

Walls:	Floors:
W1 - Existing to remain	F1 - Existing to remain
W2 - Paint	F2 - Carpet
W3 - Fiberglass Reinforced Panels (FRP)	F3 - Vinyl Composition Tile
W4 - Ceramic Tile	F4 - Exposed
W5 - No finish	F5 - Polished Concrete
W6 - Other (see Drawings)	F6 - Other (see Drawings)

## WINDOW SCHEDULE

### Notes:

- Windows shall be of durable grade from Manufacturer's Standard Selections, Pre-Finished where applicable, and free of any damages.
- Window Hardware shall be consistent in appearance and from Manufacturer's Standard Selections and Finishes. Finish to be selected by Owner.
- All Window Assemblies and Hardware shall meet or exceed State and Local Code Requirements including the Americans with Disabilities Act.

## SCHEDULE:

No.	Manufacturer	Model	Type	Head	Jamb	Sill
1	Kawneer or equal	6'-8"w x 4'-0"h	AL-1	H-2	J-2	S-2
2	Kawneer or equal	4'-0"w x 4'-0"h	AL-2	H-2	J-2	S-2

## LEGEND:

AW-Awing	FDR - French Doors
CA-Casement	PIC - Picture / Fixed
DH-Double Hung	SL - Sliding Doors

## COMMENTS/ NOTES:

## DOOR SCHEDULE:

### Notes:

- Doors shall be Commercial Grade from Manufacturer's standard selections, prefinished where applicable, and free of any damages and include all required Hardware.
- Door Hardware shall be consistent in appearance, ADA Compliant and from Manufacturer's standard selections and finishes. Finish shall be selected by the Owner.
- All Doors, Frames, Assemblies, and Hardware shall meet or exceed State and Local Code requirements including Building Code egress requirements and Americans with Disabilities Act.

## SCHEDULE:

No.	Door Type	Head	Jamb	Sill	Remarks
1	FG-8	-	-	-	Fit into existing opening - modify as opening as necessary
2	WD-4	H-2	J-2	S-6	
3	WD-20	H-2	J-2	-	
4	WD-4	H-2	J-2	S-6	
5	HM-19	H-2	J-2	-	
6	Existing to remain	-	-	-	
7	HM-1	-	-	-	

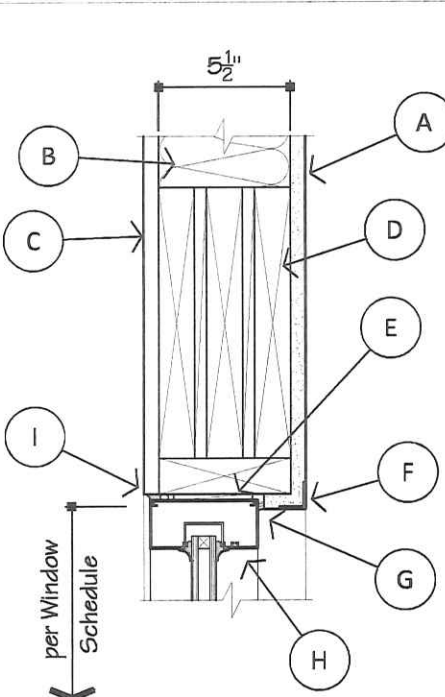
## LEGEND:

"BF" - Bifold Door	"HM" - Hollow Metal	"SD" - Vertical Strip Door
"F" - Flush Door	"OH" - Overhead Door	"SH" - Fire Shutter Door
"FG" - Full Glass Door	"PNL" - Panel Door	"SL" - Sliding Door
"HG" - Half Glass Door	"R" - Fire Rated Door	"WD" - Wood Door

### Notes:

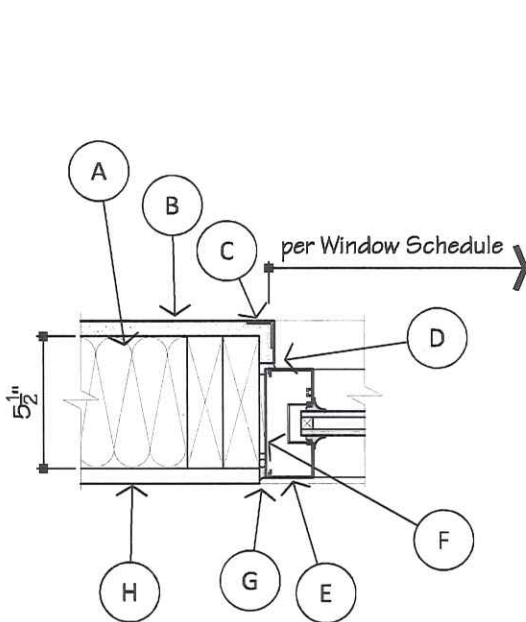
- If required by the Building Code or by the Owner, Hardware Sets may include one or more of the following: Closers, Master Keying, Weather Stripping, Hinges, Thresholds, etc. All Hardware Sets shall be complete for the proper functioning of the Door.



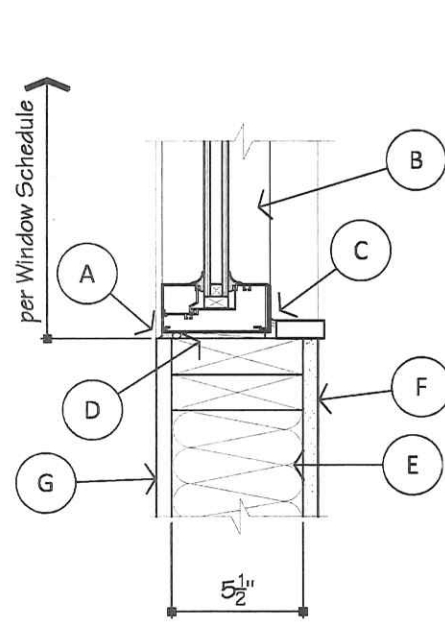


- KEYNOTES:**
- A. Provide and install Gypsum Board per Manufacturer's Instructions.
  - B. Provide and install Full Batt Insulation per Manufacturer's Instructions.
  - C. Provide and install Exterior Sheathing per Manufacturer's Instructions.
  - D. Provide and install (3) 2x12 Stud Header with spacers as required.
  - E. 3/4" Shim space, typical.
  - F. Provide and install Corner Bead per Manufacturer's Instructions, typical.
  - G. Caulking, typical.
  - H. Provide and install Thermally Broken Aluminum Framing per Manufacturer's Instructions with Insulating Glazing assembly.
  - I. Sealant, typical.

**WINDOW HEAD DETAIL - H-2**  
SCALE: 1-1/2" = 1'-0"

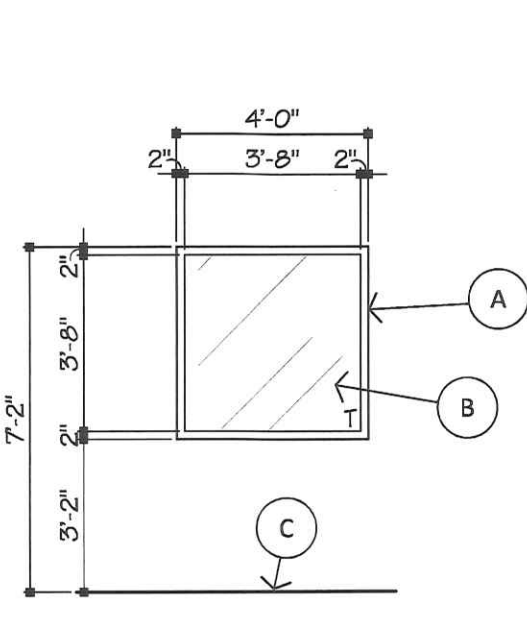


**WINDOW JAMB DETAIL - J-2**  
SCALE: 1-1/2" = 1'-0"



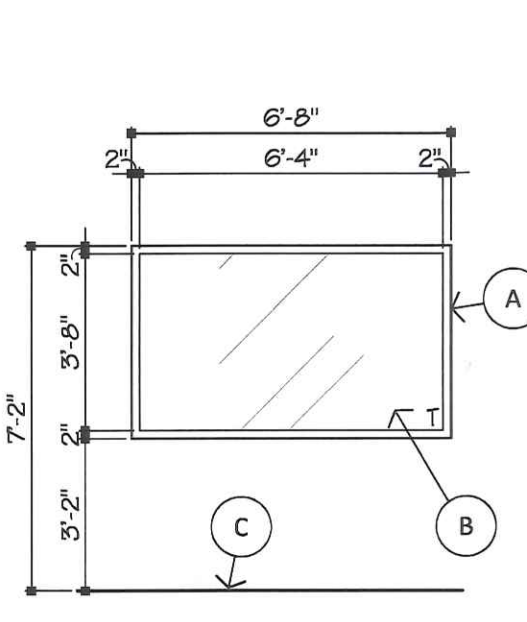
**WINDOW SILL DETAIL - S-2**  
SCALE: 1-1/2" = 1'-0"

- KEYNOTES:**
- A. Sealant, typical.
  - B. Provide and install Thermally Broken Aluminum Framing per Manufacturer's Instructions with Insulating Glazing assembly.
  - C. Caulking, typical.
  - D. 3/4" Shim space, typical.
  - E. Provide and install Full Batt Insulation Blankets per Manufacturer's Instructions as noted in Sections.
  - F. Provide and install Gypsum Board per Manufacturer's Instructions - width as noted in Wall Detail.
  - G. Provide and install Exterior Sheathing per Manufacturer's Instructions.



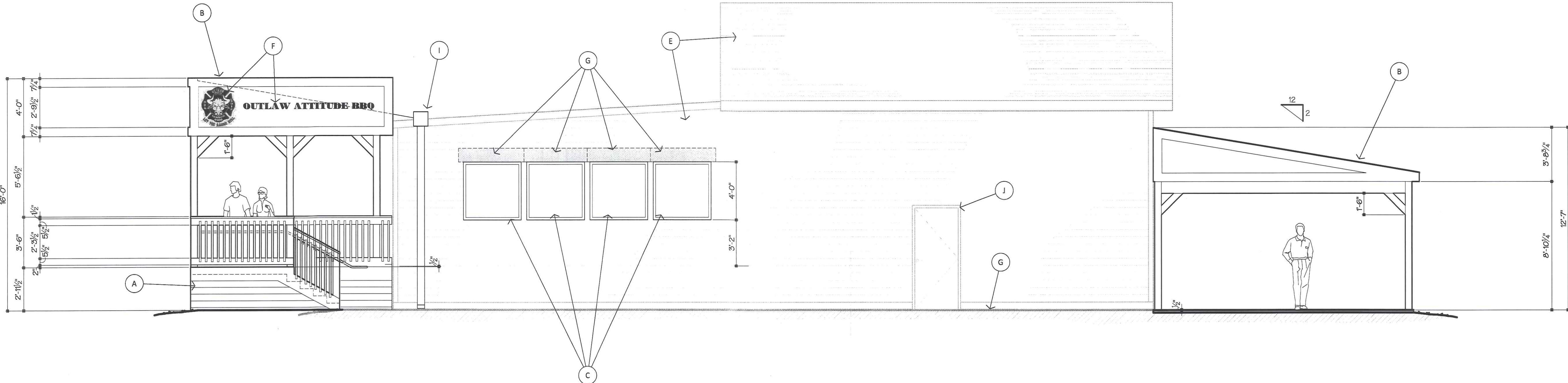
**WINDOW TYPE - AL-2**  
SCALE: 1/4" = 1'-0"  
Fire Rating: ..... None  
Use: ..... Exterior

- KEYNOTES:**
- A. Provide and install Pre-Finished thermally broken Aluminum Framing per Manufacturer's Instructions - finish selected by Owner.
  - B. Provide and install Nominal 1" Insulating Glazing Units per Manufacturer's Instructions - verify tinting with Owner. Provide Safety Glazing in all units where required by the Building Code.
  - C. Finish Floor.



**WINDOW TYPE - AL-1**  
SCALE: 1/4" = 1'-0"  
Fire Rating: ..... None  
Use: ..... Exterior

- KEYNOTES:**
- A. Provide and install Pre-Finished thermally broken Aluminum Framing per Manufacturer's Instructions - finish selected by Owner.
  - B. Provide and install Nominal 1" Insulating Glazing Units per Manufacturer's Instructions - verify tinting with Owner. Provide Safety Glazing in all units where required by the Building Code.
  - C. Finish Floor.



**EAST EXTERIOR ELEVATION**  
SCALE: 1/4" = 1'-0"

**08520 ALUMINUM WINDOWS**

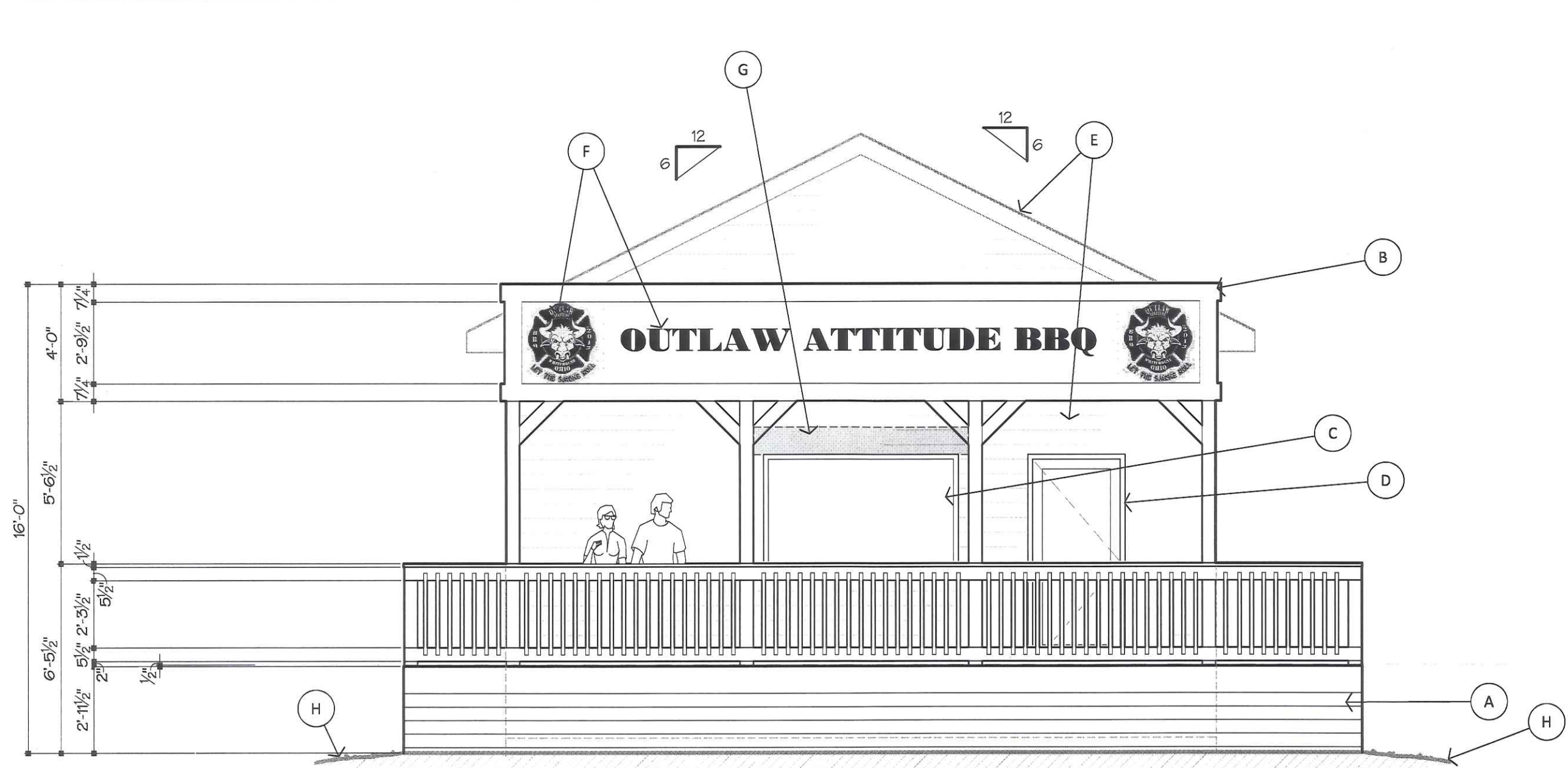
- Use adequate numbers of skilled workmen who are thoroughly trained and experienced in the necessary crafts and who are completely familiar with the specified requirements and the methods needed for proper performance of the Work of this section.
- System to provide for expansions and contraction within system components caused by a cycling temperature range of 170° F without causing detrimental effects to system or components.
- Design and size members to withstand Dead Loads and Live Loads caused by pressure and suction of Wind as calculated in accordance with the Building Code.
- Limit mullion deflection to 1/160, or flexure limit of glass with full recovery of glazing materials, whichever is less.
- Drain water entering joints, condensation occurring in glazing channels, or migrating moisture occurring within system, to exterior.
- Limit air infiltration through assembly to 0.06 cu. Ft./min./sq. Ft. of assembly surface area, measured at a reference differential pressure across assembly of 0.3 inches water gauge as measured in accordance with ANSI/ASTM E283.
- Upon completion of this portion of the Work, and as a condition of its acceptance, deliver to the Owner two copies of a written Warranty agreeing to replace work of this section which fails due to defective materials or workmanship within three (3) years after date of Substantial Completion as defined in the General Conditions.
- Provide Aluminum Windows in the dimensions and arrangements shown on the Drawings. Framing shall be standard products of Kawneer Company, Inc., or Approved Equal. Extrusions shall be TRIFAB 450 6063-T5 alloy and temper (ASTM B221 alloy 10A-T5) for non-insulating units and TRIFAB 451T 6063-T5 alloy and temper (ASTM B221 alloy 10A-T5) for insulating units. Finish shall be an Architectural class anodic coating with color conforming to Aluminum Association Standard AA-M12 C22 A42/44. Color shall be as noted on Drawings.
- Use concealed fasteners to the maximum extent practicable.
- Provide hairline fit at the joints, with smooth continuity of line and accurate relation of planes and angles. Securely fasten.
- Furnish Manufacturer's Recommended vinyl or neoprene glazing channels for installation. Color black.
- Provide Caulking as indicated or required to make work of this Section watertight and properly finished, including the joint between frames and adjoining construction. Color to match framing.
- Coordinate as required with other trades to assure proper and adequate provision in the Work of those trades for interface with the work of this section. Make measurements as required in the field to assure proper fit.
- Install the work of this section in strict accordance with the original Design, pertinent requirements of Governmental Agencies having Jurisdiction, and the Manufacturer's Recommended Installation Procedures, anchoring all components firmly into position for long life.
- Wash down exposed surfaces using a solution of mild detergent in warm water, applied with soft, clean wiping cloths. Take care to remove dirt from corners. Wipe surfaces clean. Remove excess sealant by moderate use of solvent acceptable to Sealant Manufacturer.

**07200 BUILDING INSULATION:**

- Thermal Insulation shall be incombustible Batts, with paper on one side. Insulation shall have a minimum "R" Value for insulation as noted on Plans. Kraft face all thermal insulation.
- Sound Insulation Batts shall be incombustible Glass Fiber thickness as noted on the Drawings.
- Fasteners shall be non-corrosive type as recommended by Insulation Manufacturer.
- The exterior skin of building pipes, conduit, ducts, wires and etc., shall be fill tight with Expansion Foam, fill with final layer of Caulking in each side of wall.

**DIMENSIONS:**

- Contractor to verify all dimensions prior to the start of the Project and adjust items as necessary to achieve the intent of the Construction Documents. Major discrepancies should be reported to the Architect.
- Much of the existing Building sizes, dimensions, and construction methods are assumed based on typical standard construction practices so Contractor should be prepared for adjustments.



**NORTH EXTERIOR ELEVATION**  
SCALE: 1/4" = 1'-0"

**EXTERIOR ELEVATION KEYNOTES**

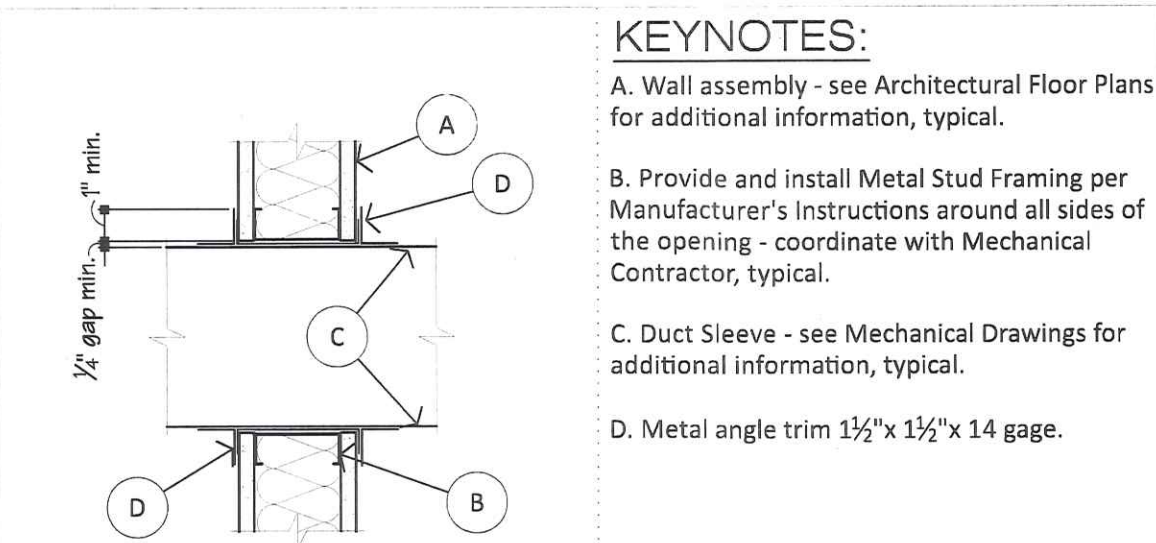
- A. Provide and install new Wood Deck assembly per Industry Standards with Exterior Grade Lumber - see Sections for additional information, typical.
- B. Provide and install new Wood Roof assembly per Industry Standards - see Sections for additional information, typical.
- C. Provide and install new insulating Window assembly per Manufacturer's Instructions, typical.
- D. Replace existing Door assembly with new Full Glass Entry Door assembly - adjust existing opening as necessary, typical.
- E. Existing Building to remain - make modifications as necessary to complete the Design Intent, typical.
- F. Signage by Tenant, typical.
- G. Provide and install new Lintel for modified Window Opening - see Architectural Floor Plan for size, typical.
- H. Existing Grade, typical.



	Earth or Fill		Gypsum Board
	Concrete		Batt Insulation
	Compacted Fill		Acoustical Insulation
	Shingle Roof		Finished Wood
	Plywood		Asphalt Paving

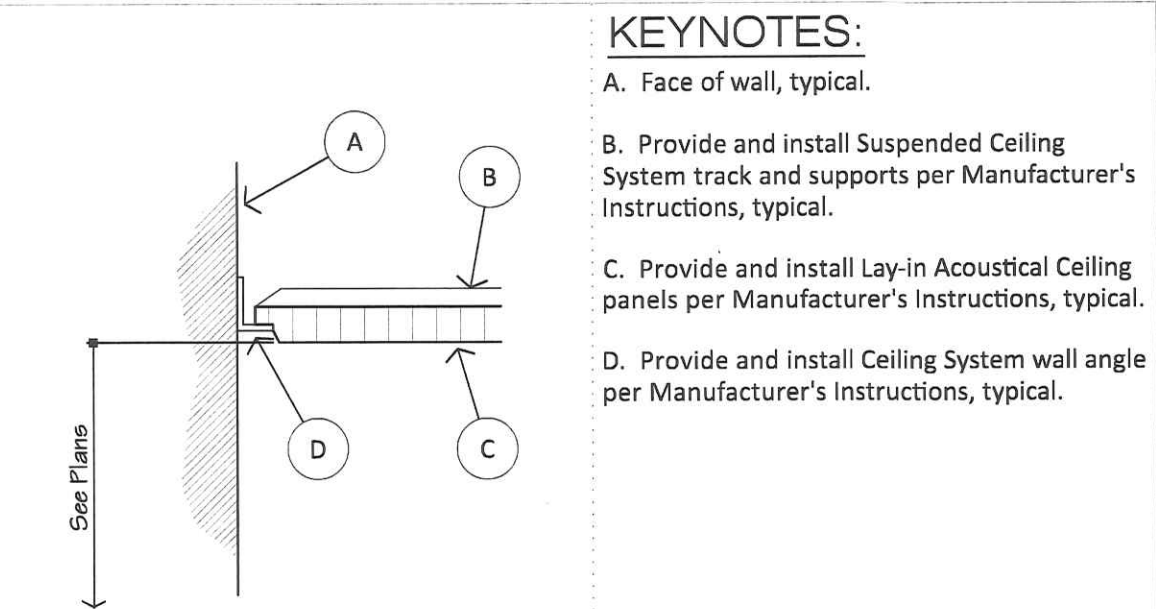
#### MATERIALS LEGEND

SCALE: NONE



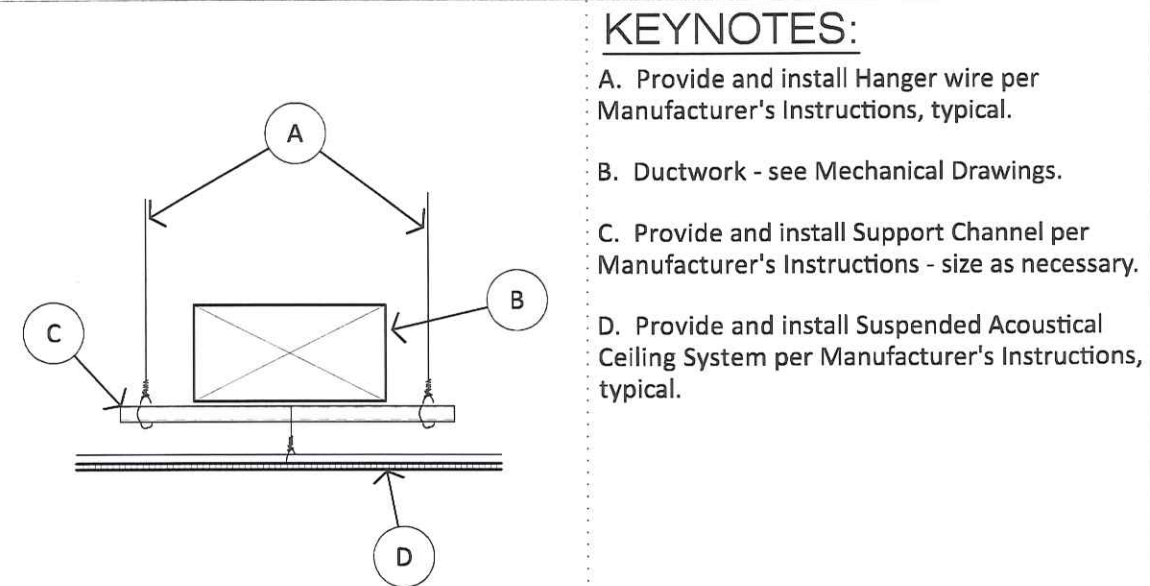
#### DUCT THROUGH WALL DETAIL

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



#### SUSPENDED CEILING DETAIL

SCALE: 3" = 1'-0"



#### SUSPENDED CEILING DETAIL

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

#### DIMENSIONS:

1. Contractor to verify all dimensions prior to the start of the Project and adjust items as necessary to achieve the intent of the Construction Documents. Major discrepancies should be reported to the Architect.
2. Much of the existing Building sizes, dimensions, and construction methods are assumed based on typical standard construction practices so Contractor should be prepared for adjustments.

#### EXTERIOR ELEVATION

##### KEYNOTES

A. Provide and install new Wood Deck and Ramp assembly per Industry Standards with Exterior Grade Lumber - see Sections for additional information, typical.

*Note:* All Exterior Grade Lumber to be stained/painted - colors selected by Tenant.

B. Provide and install new Wood Roof assembly per Industry Standards - see Sections for additional information, typical.

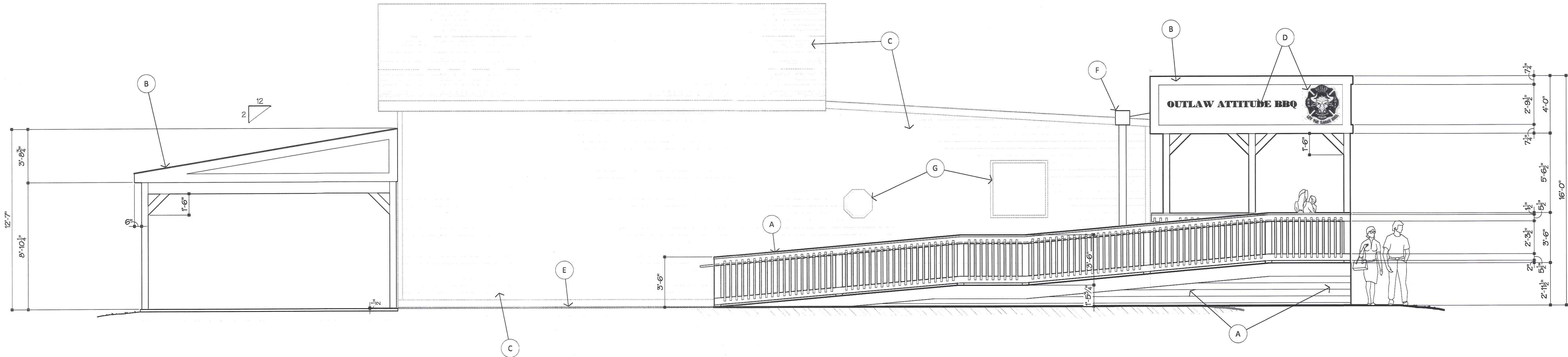
C. Existing Building to remain - make modifications as necessary to complete the Design Intent, typical.

D. Signage by Tenant, typical.

E. Existing Grade, typical.

F. Provide and install new Scupper with Downspout per Industry Standards on East and West Elevations for Roof Drainage, typical.

G. Existing Window to remain, typical.



#### WEST EXTERIOR ELEVATION

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

#### HOLLOW METAL FRAMES

1. Frames shall be formed from not less than #16 gauge cold rolled steel as made by Steelcraft or approved equal. See Door Schedule for ratings and requirements.
2. Provide a minimum of three (3) adjustable anchors at each jamb. Frames shall have three rubber bumpers per strike jamb, two per double door head frame.
3. Frames shall be substantially reinforced to receive all butts, strikes, checks, closers and other hardware. Provide boxes in back of strikes and mortises to receive butts.
4. Provide steel angle clips at jambs for bolting frames to floor slabs.
5. Factory prime coat frames with two (2) coats baked-on rust-inhibitive paint. Back paint all frames. Caulk around all frames as required to seal frame to wall.

#### 08211 FLUSH WOOD DOORS

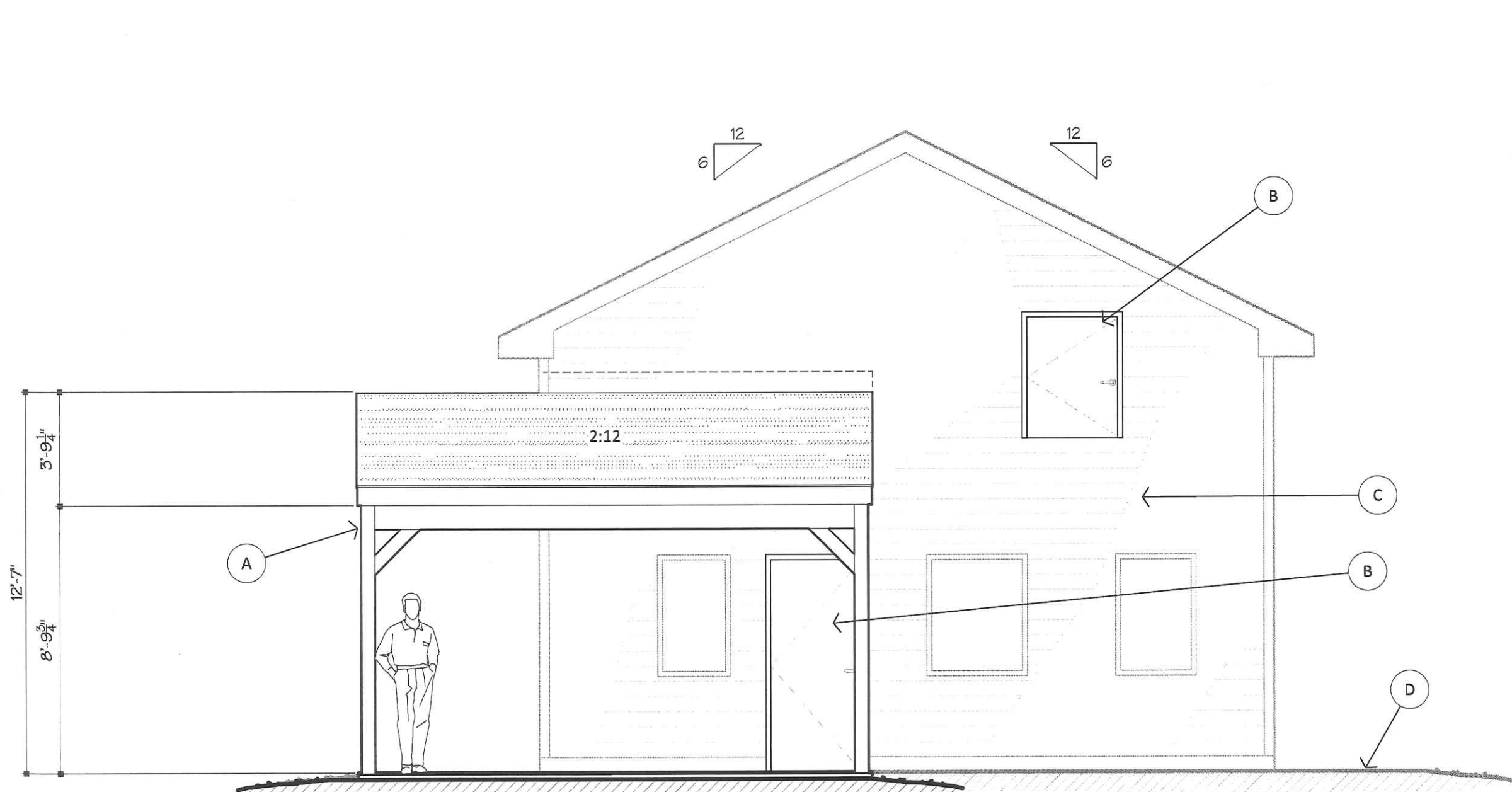
1. Deliver doors to site after plaster and cement are dry, and after the Building has reached average prevailing humidity of its locality.
2. Seal all four edges of unfinished doors when delivered to the Job Site.
3. Solid Core flush doors shall be Custom Grade wood doors, 2 year warranty.
4. Fire Rated doors shall be Custom Grade wood doors, 2 year warranty (NWMA Guarantee) UL label attached thereto.
5. Louvers shall be approved factory finished stationary types to indicated sizes, minimum 18 gauge steel blades and straddle type frames. Joints welded and smooth. Finish: One (1) coat primer. Install louvers at door factory or mill.
6. Openings in doors for View Lites, where indicated on the Drawings shall be metal framed in accordance with Door Manufacturer's standard.
7. Install doors to operate freely but not loosely, free of hinge bound conditions, sticking adjusted and in functioning order. Door clearance at lock and hanging stiles, not to exceed 1/8" and bottom clearance not more than 3/8" except where otherwise specifically noted on Door Schedules or as required by Code; fitted and hung free from rattling when in latched position.
8. Accurately fit opening for which intended. Cutting more than 1" in either height or width to fit smaller openings will not be permitted. Install louvers in doors where scheduled, and use clamp type frame to secure in place.
9. Receive and retain custody of Finish Hardware furnished for the Work of this section under Finish Hardware section of the Specifications and install per recommendations of its Manufacturer.

#### 07270 FIRESTOPPING

1. References:
  - ASTM E-814: Fire Tests of Through - Penetration Firestops.
  - UL 1479: Fire Tests of Through - Penetration Firestops.
  - UL 1990 Fire Resistive Directory: Through - Penetration Firestops Systems (XHEZ), and Fill, Void or Cavity Materials (XHHW).
2. Firestopping shall be a Material, or combination of Materials, to retain the integrity of Time-Rated Construction by maintaining an effective barrier against the Spread of Flame, Smoke and Gases. It shall be used in specific locations as follows:
  - Duct, Cable, Conduit and Piping penetrations through floor slab and through Time-Rated Partitions or Fire Walls.
  - Openings between floor slabs and curtain walls, including inside Hollow curtain walls at the floor slab.
  - Openings and penetrations in Time-Rated Partitions or Fire Walls containing fire doors.
  - Locations where specifically shown on the Drawings or where specified in other sections of the Project.
3. Submit Manufacturer's Product Data, Letter of Certification, or Certified Laboratory Test Report that the material or combination of materials meet the requirements specified in ASTM E-814 and are so classified in UL's Building Materials Directory.
4. Materials shall meet and be acceptable for use by the Building Code and State Fire Marshal.
5. Materials shall meet the requirements of NFPA 101 - Life Safety Code and NFPA 70 - National Electrical Code.

#### 06240 PLASTIC LAMINATE

1. Submit Manufacturer's Specifications and other data needed to demonstrate compliance with the specified requirements, Samples of the full range of colors and patterns available in each of the specified grades from the proposed Manufacturer, and Manufacturer's recommended methods of installation which will become the basis for acceptance or rejection of actual installation procedures used on the Work.
2. Acceptable manufacturers: Wilsonart (Division of Ralph Wilson Plastics) Nevamar Corporation Micarta (Division of Westinghouse Electric Corporation)
3. Colors, patterns, and textured finish shall be selected by the Owner from standard colors and finishes of the Approved Manufacturer. Allow for multiple colors.
4. Install the approved Laminated Plastic in strict accordance with the Manufacturer's Recommendations as approved by the Architect.



#### SOUTH EXTERIOR ELEVATION

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

#### EXTERIOR ELEVATION

##### KEYNOTES

A. Provide and install new Wood Roof assembly per Industry Standards with Exterior Grade Lumber - see Sections for additional information, typical.

*Note:* All Exterior Grade Lumber to be stained/painted - colors selected by Tenant.

B. Provide and install new insulating Door assembly per Manufacturer's Instructions, typical.

C. Existing Building to remain - make modifications as necessary to complete the Design Intent, typical.

D. Existing Grade, typical.

New Restaurant for  
Outlaw Attitude BBQ



215 West Front St.,  
Napoleon, Ohio

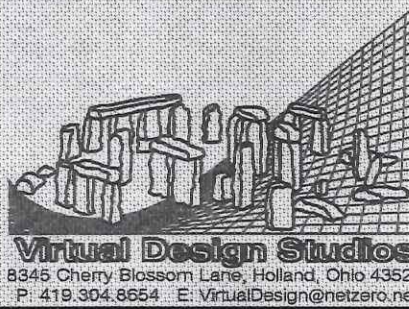
VDS No.: 170827

Date:

Signature:

Date:

Richard Livecchi, AIA, NCARB  
License # 9812  
Expires: 12/31/2019





#### FIRE EXTINGUISHERS:

Portable Fire Extinguishers shall be installed in the following locations per the Building and Fire Codes:

1. Within 30 feet of Commercial Cooking Equipment.
2. In areas where Flammable or Combustible Liquids are stored, used or dispensed.
3. On each Floor of structures under construction in accordance with the Fire Code.
4. Where required by the Fire Code.
5. Special-Hazard areas, such as Laboratories, Computer Rooms and Generator Rooms.
6. Portable Fire Extinguishers shall be selected, installed and maintained per NFPA 10.

#### FINISH NOTES:

1. All walls shall be primed and painted on all visible surfaces. Paint color by Owner/Tenant from standard commercial grade from Manufacturer's standard selections.
2. All rooms receiving new carpet to conform to local Building Code requirements. Carpet style and color by Owner/Tenant from standard commercial grade from Manufacturer's standard selections.
3. Acoustical ceiling system shall conform to local Building Code requirements. Ceiling selection by Owner/Tenant from standard commercial grade from Manufacturer's standard selections.
4. All finishes shall be installed per Manufacturer's Instructions and shall meet or exceed Building Code requirements.

#### POLISHED CONCRETE NOTES:

1. Grind Concrete surface with a Planetary Three Disk, 32" Grinding-Polishing Machine with a power rating of 480v 3 phase, connected to a large Dust Collector.
2. Grind Concrete with 9 Metal-Bonding Diamonds to open wear layer, meeting Owners objectives and removing Embedded Adhesive. Suggest 30 Grit Metal-Bond Diamonds.
3. Follow Trade Guidelines by using a progression of finer grit Metal-Bond Diamond passes to achieve a smoother Concrete surface after each pass. Suggest three additional passes Metal-Bond Diamond passes.
4. Apply Consolideck is with a low pressure sprayer @ 400-500 sf/gal. refer to application guidelines from Manufacturer.
5. Begin Polishing Concrete with 12, 100-200 Grit Resin-Bond Diamonds.
6. Follow Trade Guidelines by using a progression of finer grit Resin-Bond Diamond passes.
7. Clean Concrete surface with a walk or ride on Auto Scrubber.
8. Apply Consolideck is Guard with a low pressure sprayer @ 1500 sf/gal. refer to application guidelines from Manufacturer.
9. Final Polish with 12/3000 Grit Resin-Bond Diamond pads.
10. Clean Work area.

#### 09250 GYPSUM WALLBOARD

1. Provide and install all Gypsum Wallboard including Draftstops and accessory trim, (screw installation). Provide all materials and equipment and perform all operations required to complete Gypsum Drywall portion of the Work. Tape and cement joints, and fasteners where required for painter's finish and/or indicated Fire Rating.
2. Gypsum Wallboard shall be Gold Bond or United State Gypsum or equal. Thickness and type as noted. Provide U.L. Rated board and treatment where rated construction indicated.
3. Metal Trim and Corner Beads shall be electro-galvanized steel with taping flanger as manufactured or recommended by Gypsum Wallboard Manufacturer, with corner beads at all outside corners and "L" shaped trim members where abutting work of other trades. Flanges shall be free from dirt or grease or other matter that may affect bond of joint treatment or decoration.
4. Joint and Finishing Cement and joint tape, as manufactured or approved by Manufacturer of Gypsum Wallboard.
5. Caulking Compound: Permanently non-hardening type supplied by or recommended by Wallboard Manufacturer.
6. Work shall be performed in accordance with the American Standard Specifications for the Application and Finishing of Gypsum Wallboard latest edition and the Wallboard Manufacturer's Recommendations.
7. Attach all Wallboard by drywall screw method. Joints of Gypboard occurring on opposite sides of framing members shall be staggered.
8. External corners of Gypboard shall receive specified metal trim. Edges abutting dissimilar materials and elsewhere as indicated shall terminate in casing beads which shall be suttered with caulking material and pressed into place to provide fully filled joint between wallboard bead and adjacent material.

#### 08800 GLAZING

1. For all Glass provide the type and thickness shown on the Drawings or specified herein.
2. Plate or Float Glass: Comply with Fed Spec DD-G-451, Type I, Class 1, Quality Q3.2. Where Plate Glass is called for, Plate Glass or Float Glass may be used.
3. Sheet Glass: Provide Type II, Class 1, Quality Q5.
4. Clear Wire Glass: Provide Type III, Class 1, Kind A, Form 1, with pattern M3 Wire Mesh where shown or required. Shall have S.F.M. listing.
5. Tempered Glass: Provide Tempered or Heat-Strengthened Glass where indicated on the Drawings, and elsewhere as required by Governmental Agencies having Jurisdiction.
6. Fully Tempered Glass shall comply with Fed Spec DD-G-1403 and ANSI 297.1. Use flat frame tempering process WITHOUT the use of tongs. Permit minimum warpage practicable.
7. Heat Strengthened Glass shall comply with Fed Spec DD-G-1403. Strengthen by the Manufacturer's standard heat-treating process, increasing flexural strength. Permit minimum warpage practicable.
8. Where shown on the Drawings, provide 3/4" polished Plate Glass or Float Glass mirror with frame in the dimension and arrangement indicated. (See Toilet Accessory Schedule for more information).
9. Clean glazing channels, stops and rabbets to receive the glazing materials, making free from obstructions and deleterious substances which might impair the Work. Remove protective coatings which might fail in adhesion or interfere with bond of Sealants. Comply with Manufacturer's instructions for final wiping of surfaces immediately prior to application of primer and glazing compounds or tapes. Prime surfaces to receive glazing compounds in accordance with Manufacturers Recommendations.
10. Install Glass so distortion waves, if present, run in the horizontal direction.
11. Locate Setting Blocks at sills one quarter of the width of the glass in from each end of the glass, unless otherwise recommended by the Glass Manufacturer. Use blocks of proper size to support the Glass in accordance with the Manufacturer's Recommendations.
12. Provide spacers for all Glass sizes larger than 50 inches, to separate Glass from stops; except where continuous glazing gaskets or felts are provided. Locate spacers no more than 24" apart, and no closer than 12" to a corner. Place spacers opposite one another. Make bite of spacer on glass 3/4" or more. Set Glass in a manner which produces the greatest possible degree of uniformity in appearance.
13. Miter-cut and seal the joints of glazing gaskets in accordance with the Manufacturer's Recommendations, to provide watertight and airtight seal at corners and other locations where joints are required.

#### 08710 FINISH HARDWARE

1. Furnish Trim attachments and fastenings, specified or otherwise required, for proper and complete installation. Deliver to the Job Site those items of Finish Hardware scheduled to be installed at the job site; and deliver to other points of installation those items of Finish Hardware scheduled to be factory installed. The Hardware Supplier shall furnish all Finish Hardware required for the Work and not furnished under another Section. Where specific hardware is not indicated, provide the same Hardware required for similar doors elsewhere in the Building.
2. Provide an allowance of \$350 per door leaf (material cost only), installation shall be Base Bid.
3. Furnish necessary screws, bolts, and other fasteners of suitable size and type to anchor the Hardware in position for long life under hard use. Provide fasteners which harmonize with the hardware as to finish and material.
4. Where Butts are required to swing 180°, furnish Butts of sufficient throw to clear the trim.
5. Furnish Silencers for Door Frames at the rate of three per single door and two per leaf for pair of doors; except weatherstripped doors and doors with light seals or sound seals.
6. All Hardware must be Handicapped Accessibility Approved for use all areas. The following items are a partial list of items:
  - All Locksets shall be Lever type.
  - Exterior Door Closers: 8.5# operating force
  - Interior Door Closers: 5.0# operating force; 15.0# Fire Doors.
  - Fire Doors: 15.0# operating force
  - Hand-activated Hardware shall be mounted at 34" to 38" above finish floor.
7. Factory Key, Masterkey, and Grand-Masterkey locks and cylinders as directed in consultation with the Owner and property management. Furnish three keys for each lock, twelve Masterkeys for each set, and three Grand-Masterkeys. Factory stamp permanent keys, "DO NOT DUPLICATE". Identify permanent keys with tags, and send direct to the Owner by registered mail or receipted personal delivery.
8. For each of the required items of Finish Hardware, provide from the specified Manufacturer or from an approved substitute.
  - Stanley Hardware
  - Von Duprin, Inc.
  - Schlage Lock Co.
  - Norton Door Closer
  - Builders Brass Works
  - Rockwood Pemko Mfg.
  - Quality Hardware

#### ACOUSTICAL CEILINGS:

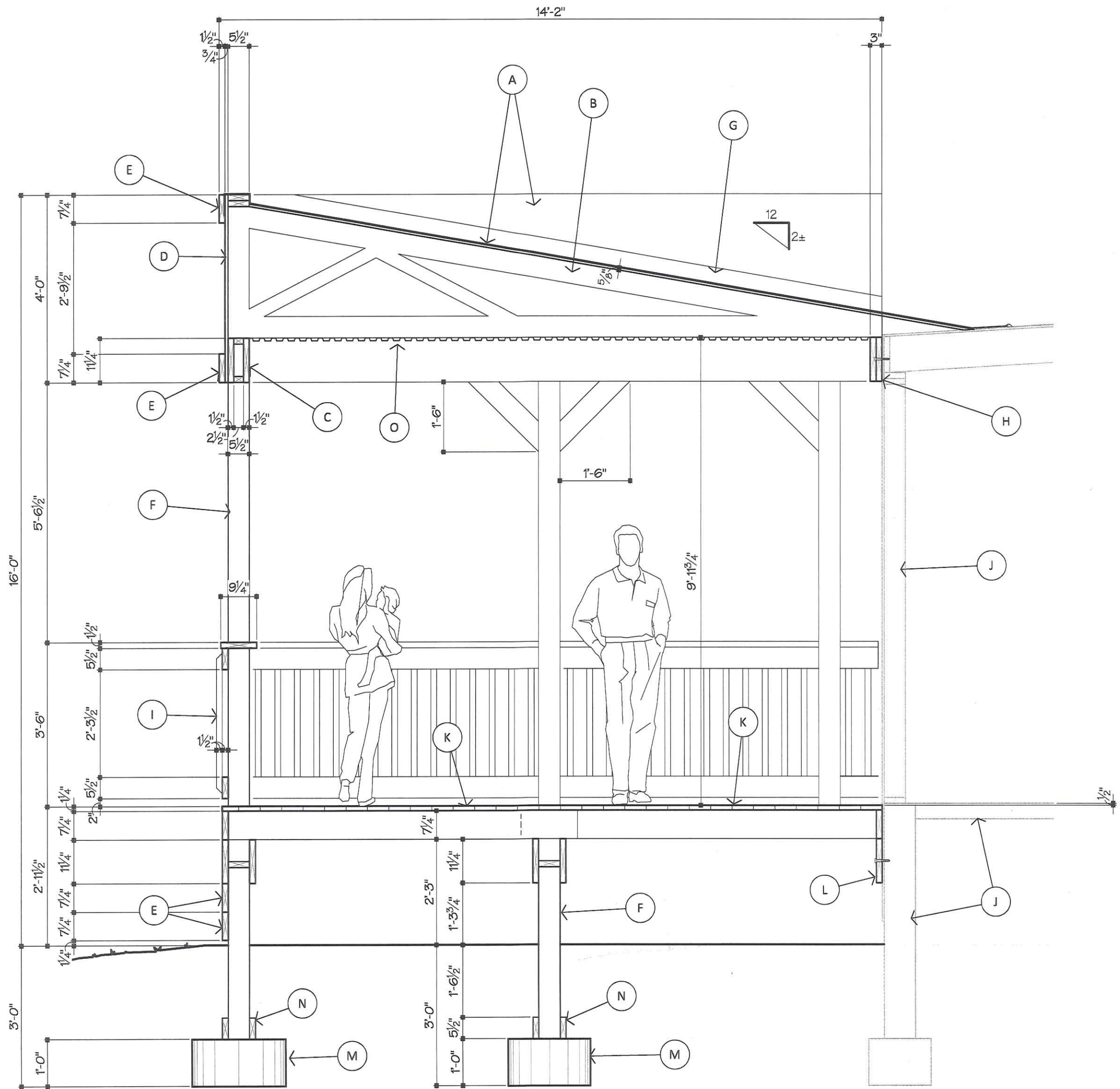
1. Furnish and install new Heavy Duty T-Bar suspension system: steel, baked white enamel, med weight rigid grid system.
2. New Ceiling Tile shall be Fiberglass Washable unperforated film faced 'Shasta' as made by Armstrong, size as shown on the Drawings in High Moisture areas or Kitchens.
3. New Ceiling Tile shall be USG 'Auratone Shadowline' #506SL with Tegular Edges or Approved Equal.
4. Suspend new Ceiling with #12 galvanized wire hangers. Install a hanger at corners of all light fixtures. Grid to be mounted level and centered in room, unless noted otherwise.

#### DIMENSIONS:

1. Contractor to verify all dimensions prior to the start of the Project and adjust items as necessary to achieve the intent of the Construction Documents. Major discrepancies should be reported to the Architect.
2. Much of the existing Building sizes, dimensions, and construction methods are assumed based on typical standard construction practices so Contractor should be prepared for adjustments.

#### SECTION KEYNOTES:

- A. Provide and install new Rubber Membrane Roofing directly adhered per Manufacturer's instructions over Roof Sheathing, typical.
- B. Provide and install new Pre-Engineered Wood Trusses per Manufacturer's instructions @ 24" o.c. - see Roof Framing Plan for additional information, typical.
- C. Provide and install new Wood Beam per Industry Standards with spacers to "box" the appearance - see Roof Framing Plan for additional information, typical.
- D. Provide and install new 3/4" Exterior Grade Plywood per Industry Standards over Trusses, typical.
- E. Provide and install new Wood Trim per Industry Standards, typical.
- F. Provide and install new Wood Post per Industry Standards - see Roof and Deck Framing Plans for additional information, typical.
- G. Membrane Flashing at vertical surface.
- H. Provide and install Wood Beam per Industry Standards and connect to the existing Wall with 1/2" Lag Bolts @ 16" o.c. or approved equal, typical.
- I. Provide and install 2x2 Wood Spindles in Railing to comply with spacing requirements for Guards in the Building Code, typical.
- J. Existing construction to remain except where modified, typical.
- K. Provide and install new 5/4 Board Decking per Manufacturer's instructions over Floor Joists - see Deck Framing Plan for additional information, typical.
- L. Provide and install Exterior Grade 2x12 Ledger Board per Industry Standards and connect to the existing Foundation Wall with 1/2" Masonry/Concrete Lag Bolts @ 16" o.c. or approved equal, typical.
- M. Foundation System - see Foundation Drawings for additional information.
- N. Provide and install new 2x6 by 1'-0" long fastened at the base of each Post for uplift, typical.
- O. Provide and install Perforated Metal Soffit material per Manufacturer's instructions over Trusses, typical.

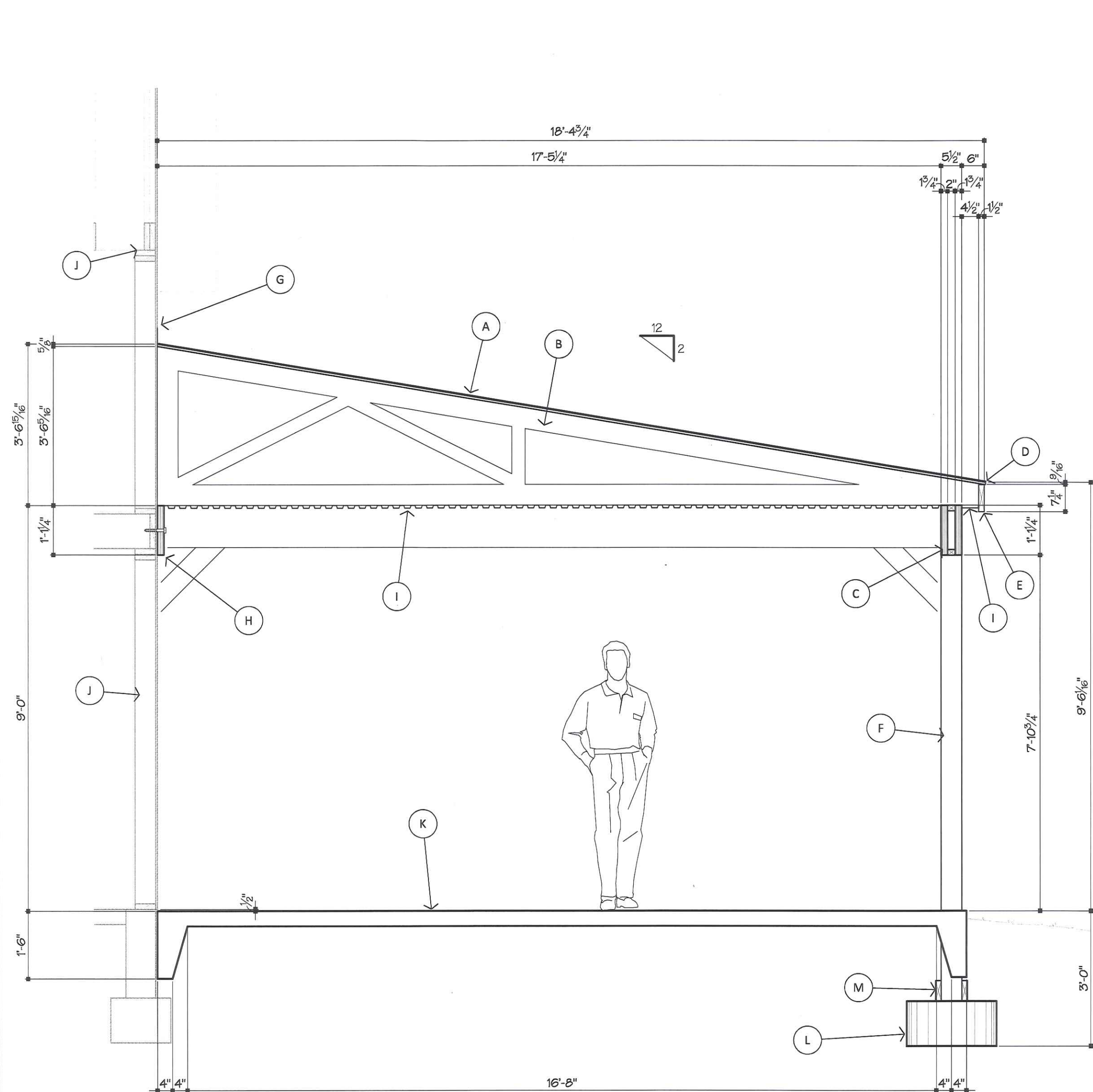


FRONT DECK SECTION

402

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

A.1



REAR SMOKER SECTION

401

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

A.1

#### New Restaurant for Outlaw Attitude BBQ



215 West Front St.,  
Napoleon, Ohio

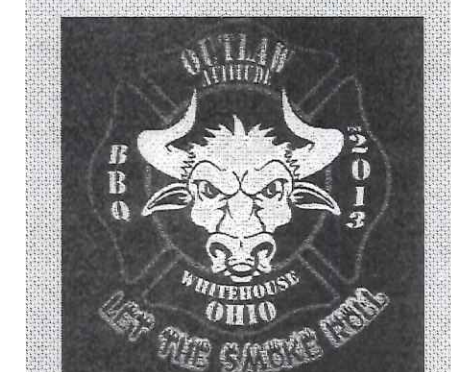
VDS No.: 170827

See:  
Signature:  
Date:

Richard Livecchi, ARA, NCARB  
License #: 9812  
Expires: 12/31/2019







# REFLECTED CEILING PLAN KEYNOTES:

- A. Provide and install new Acoustical Ceiling System per Manufacturer's Instruction at 8'-0" above finish floor, typical.
- B. Provide and install new Perforated Metal Soffit/ Siding per Manufacturer's Instruction at underside of Trusses, typical.
- C. Provide and install new Perforated Metal Soffit/ Siding per Manufacturer's Instruction at underside of existing Roof Rafters - existing Rafters slope toward front of Building, typical.
- D. Repair or replace existing Ceiling with Painted Gypsum Board at underside of existing Floor Joists, typical.
- E. Electrical Light Fixtures - see Electrical Drawings for additional information, typical.
- F. Ventilation Diffusers and Grilles - see Mechanical Drawings for additional information, typical.
- G. Exposed Ductwork to be painted, typical.

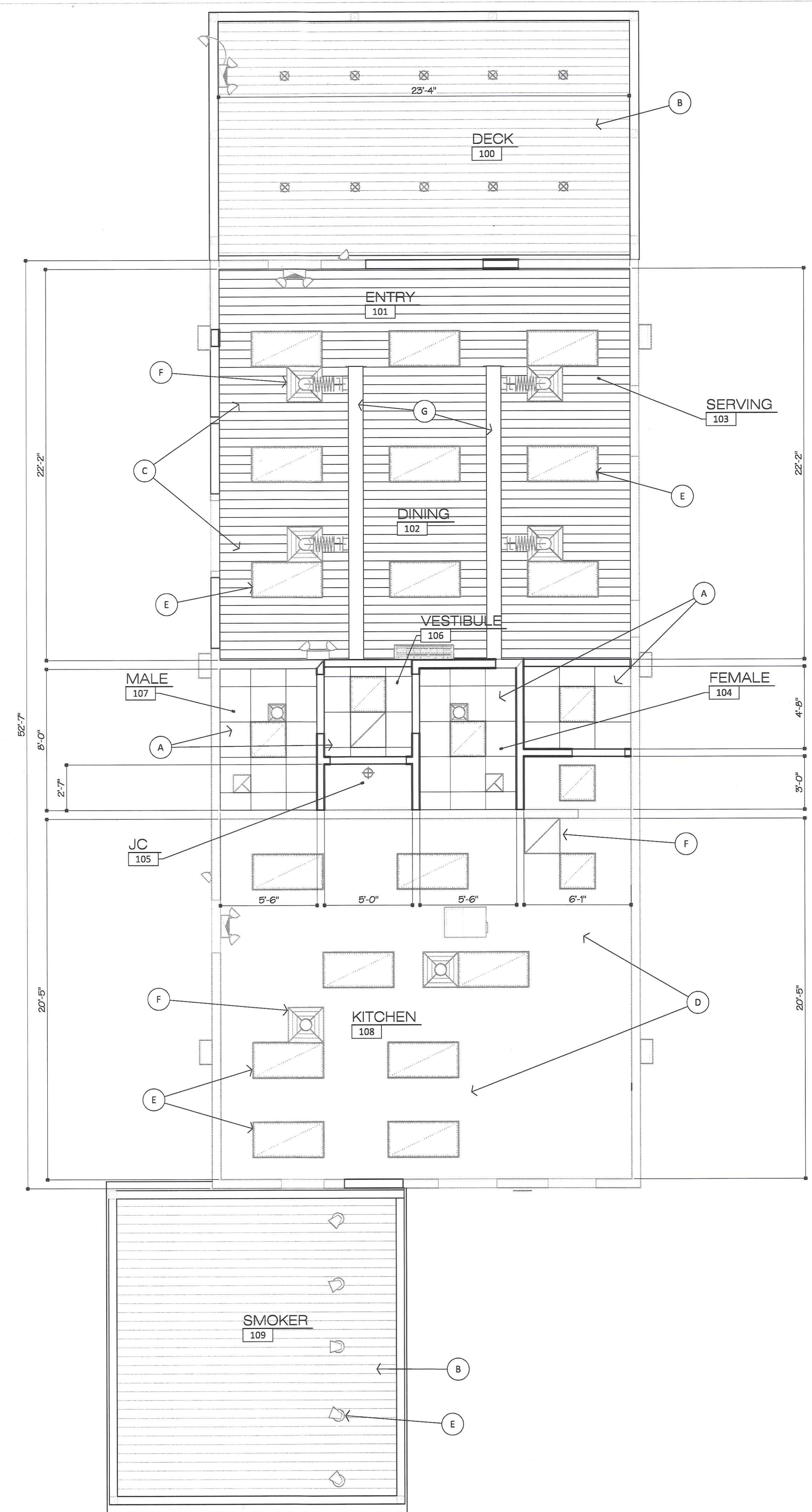
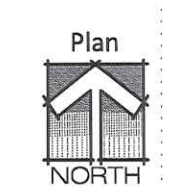
## CEILING LEGEND

- |         |   |
|---------|---|
| 2' x 4' | Suspended Acoustical Ceiling System. Verify any pipe, conduit or ductwork that will interfere with the ceiling system or light fixtures and modify appropriately. Any existing supports, hangers, etc. interfering shall be removed or reworked as part of the base bid work. |
| 2' x 2' | Mechanical Supply Air Grille - see Mechanical Drawings  |
|         | Mechanical Return Air Grille - see Mechanical Drawings  |
| +       | Sprinkler Head, center head in ceiling tile.  |
|         | Recessed Light Fixture - see Electrical Drawings  |
| ⊙       | Smoke Detector  |
| ⊗       | Exit Light  |
| □       | Speaker   |

Note: Ceiling trapeze suspension may be required in areas of large ducts, verify with Mechanical & Electrical for sizes. Coordinate locations of grid, grilles, lights etc. prior to installation.

## DIMENSIONS:

1. Contractor to verify all dimensions prior to the start of the Project and adjust items as necessary to achieve the intent of the Construction Documents. Major discrepancies should be reported to the Architect.



OVERALL ARCHITECTURAL CEILING PLAN  
SCALE: 1/4" = 1'-0"

## KEYNOTES:

- A. Provide and install Insulating Hollow Door Frame per Manufacturer's Instructions, typical.
- B. Provide and install Flush Hollow Metal Door per Manufacturer's Instructions - Finish selected by Owner, typical.
- C. Provide and install Accessible Exit Signage per Manufacturer's Instructions (Interior).
- Hardware:  
1 - Accessible Lever Lockset  
1 - Accessible Threshold  
1 1/2 Pair - Heavy Duty Hinges  
1 - Accessible Closer  
1 - Door stop  
Weather stripping

Fire Rating: ..... None  
Use: ..... Exterior Entry

## KEYNOTES:

- A. Provide and install Hollow Metal Door Frame per Manufacturer's Instructions, typical.
- B. Provide and install Double-acting Flush Metal Kitchen Door per Manufacturer's Instructions, typical.
- Hardware:  
Hardware provided by Manufacturer

Fire Rating: ..... None  
Use: ..... Interior Kitchen

## KEYNOTES:

- A. Provide and install Hollow Metal Frame per Manufacturer's Instructions - Finish selected by Owner.
- B. Provide and install Wood Door per Manufacturer's Instructions - Finish selected by Owner.
- Hardware:  
2 - Accessible Passage Set  
3 Pair - Heavy Duty Hinges  
2 - Door Stop

Fire Rating: ..... None  
Use: ..... Interior Closet

## KEYNOTES:

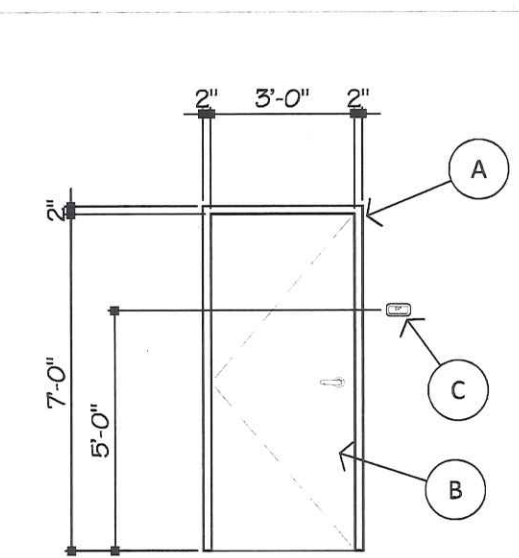
- A. Provide and install Hollow Metal Frame per Manufacturer's Instructions.
- B. Provide and install Flush Wood Door per Manufacturer's Instructions - Finish selected by Owner.
- C. Provide and install Accessible Identification Signage per Manufacturer's Instructions.
- Hardware:  
1 - Accessible Privacy Lockset  
1 1/2 Pair - Heavy Duty Hinges  
1 - Door Stop
- Accessible Transition where necessary.

Fire Rating: ..... None  
Use: ..... Interior Private Toilet

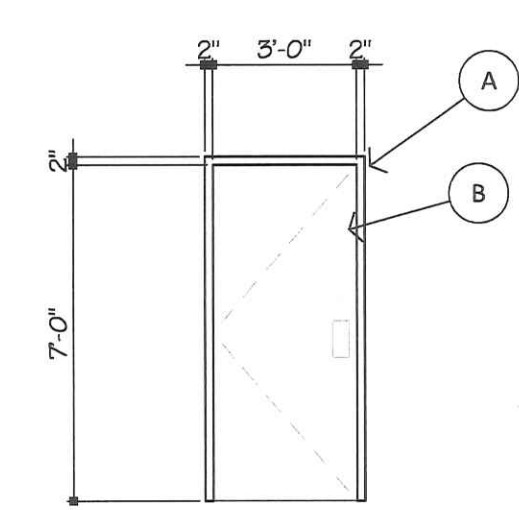
## KEYNOTES:

- A. Provide and install Pre-Finished Aluminum Insulating Door Frame per Manufacturer's Instructions.
- B. Provide and install Full Glass Door per Manufacturer's Instructions with Insulating Safety Glazing - Finish selected by Owner.
- C. Provide and install Accessible Exit Signage per Manufacturer's Instructions (Interior).
- Hardware:  
1 - Accessible Panic Exit Device  
1 - Operational Lever Handle (entry side)  
1 1/2 Pair - Heavy Duty Hinges  
1 - Door Stop  
1 - Accessible Closer  
1 - Accessible Threshold  
Weather Seals

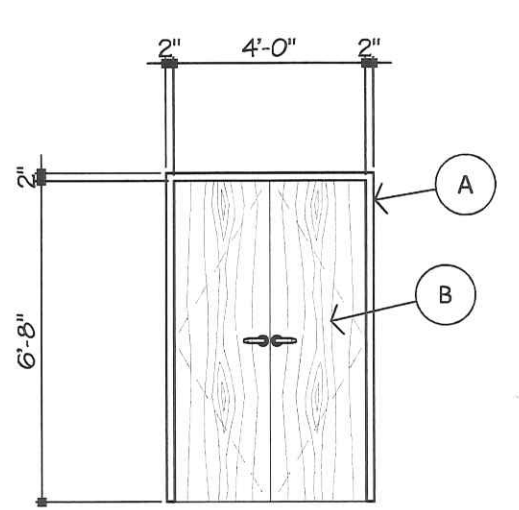
Fire Rating: ..... None  
Use: ..... Exterior Entry



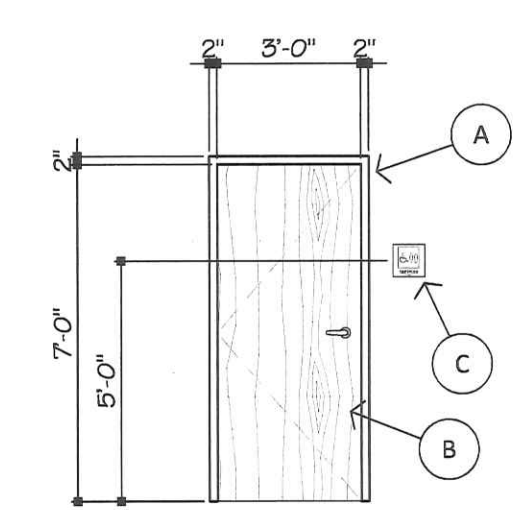
DOOR TYPE - HM-1  
SCALE: 1/4" = 1'-0"



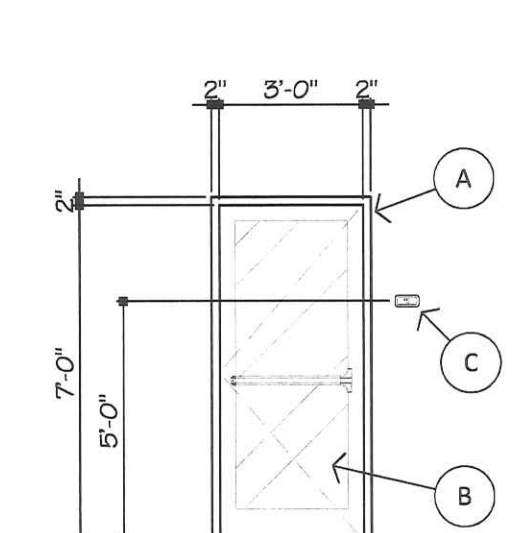
DOOR TYPE - HM-19  
SCALE: 1/4" = 1'-0"



DOOR TYPE - WD-20  
SCALE: 1/4" = 1'-0"



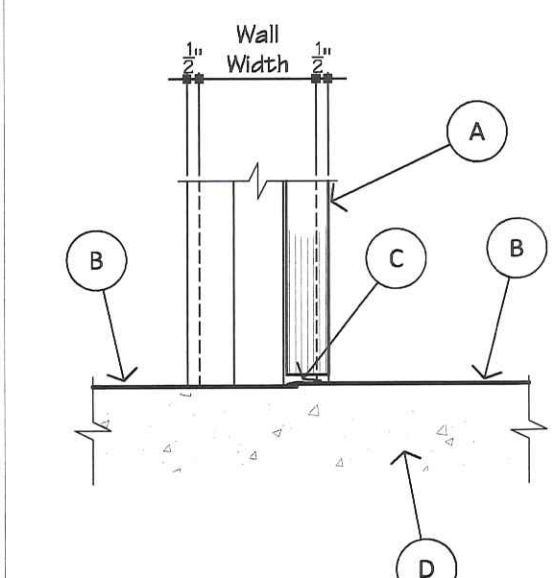
DOOR TYPE - WD-4  
SCALE: 1/4" = 1'-0"



DOOR TYPE - FG-8  
SCALE: 1/4" = 1'-0"

## KEYNOTES:

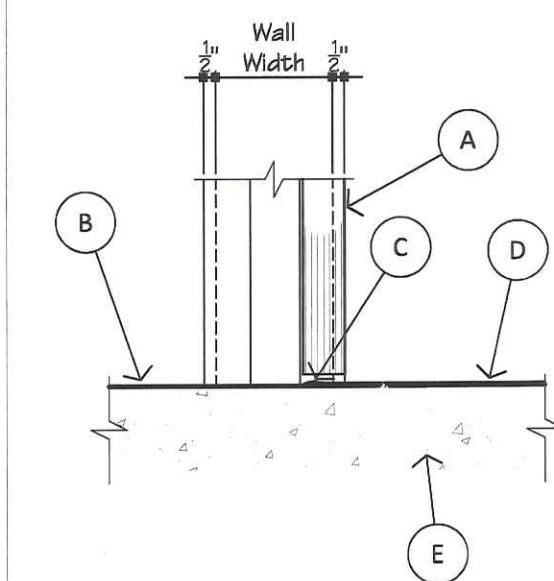
- A. Door per Schedule.
- B. Exposed Concrete - see Room Finish Schedule for additional information.
- C. Provide and install Transition Strip per Manufacturer's Instructions beneath Door (if needed).
- D. Flooring Substrate.



DOOR SILL DETAIL - S-7  
SCALE: 1-1/2" = 1'-0"

## KEYNOTES:

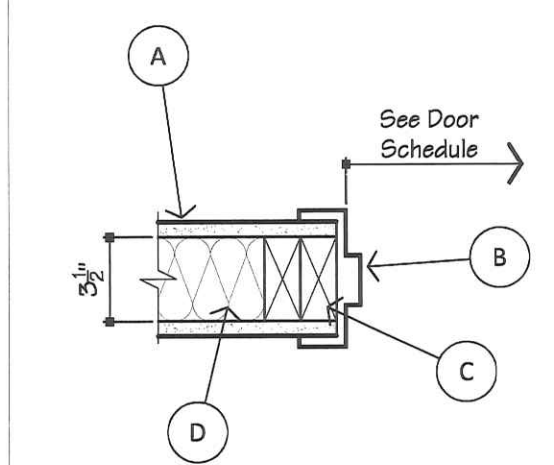
- A. Door per Schedule.
- B. Exposed Concrete - see Room Finish Schedule for additional information.
- C. Provide and install Transition Strip per Manufacturer's Instructions beneath Door.
- D. Provide and install Vinyl Composition Tile (VCT) Flooring per Manufacturer's Instructions - see Room Finish Schedule for additional information.
- E. Flooring Substrate.



DOOR SILL DETAIL - S-6  
SCALE: 1-1/2" = 1'-0"

## KEYNOTES:

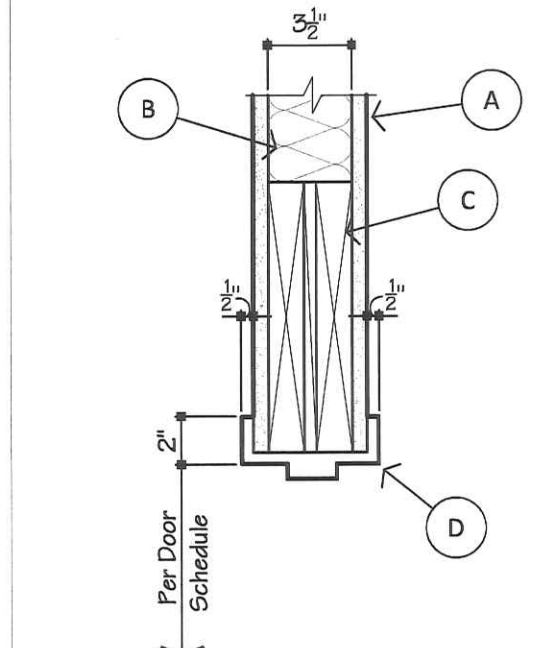
- A. Provide and install Gypsum Board per Manufacturer's Instructions - see Wall Type detail for thickness, typical.
- B. Provide and install Hollow Metal Frame per Manufacturer's Instructions - finish selected by Owner, typical.
- C. Provide and install (2) 2x4's Studs as required per Industry Standards, typical.
- D. Provide and install Sound Attenuation Fire Blankets per Manufacturer's Instructions where noted in Wall Type detail, typical.



DOOR JAMB DETAIL - J-2  
SCALE: 1-1/2" = 1'-0"

## KEYNOTES:

- A. Provide and install Gypsum Board per Manufacturer's Instructions - width as noted in Wall Detail, typical.
- B. Provide and install Sound Attenuation Fire Blankets per Manufacturer's Instructions as noted in Wall Detail, typical.
- C. Provide and install (2) 2x12 Header per Industry Standards with spacer as required.
- D. Provide and install Hollow Metal Door Frame Assembly per Manufacturer's Instructions - finish to be selected by Owner, typical.



DOOR HEAD DETAIL - H-2  
SCALE: 1-1/2" = 1'-0"





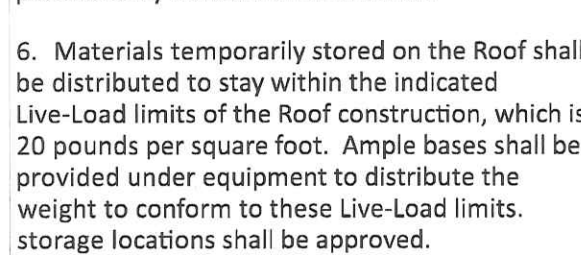
**Note:** Verify exact mounting location with local Fire Department Representative.



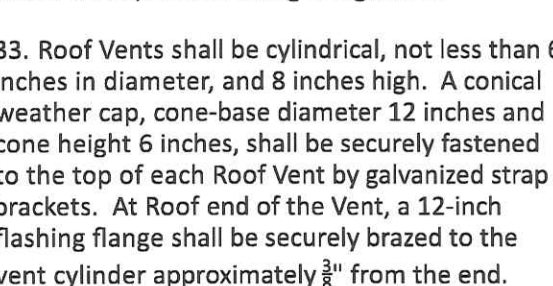
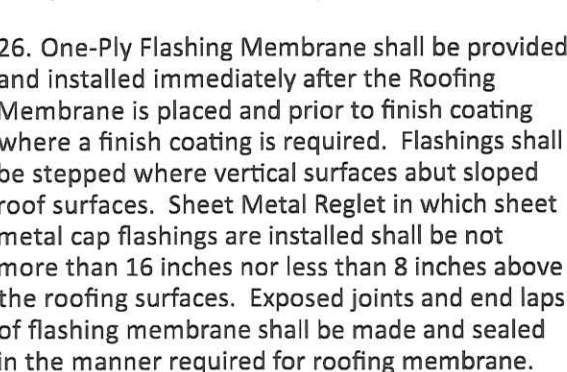
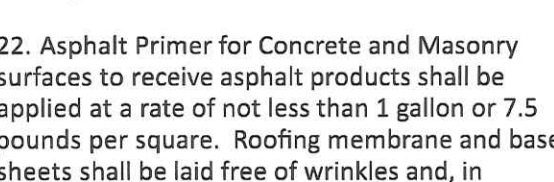
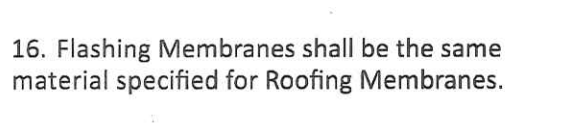
F. Provide and install Wood Blocking per Industry Standards (Fire Retardant where required), typical.



**Note:** Sign to be located either centered on the door or immediately adjacent on the latch side of the door.



1. Rubber base shall be 4" high Cove Base in areas scheduled to receive base. Color to be selected from Manufacturer's Standard Selections.



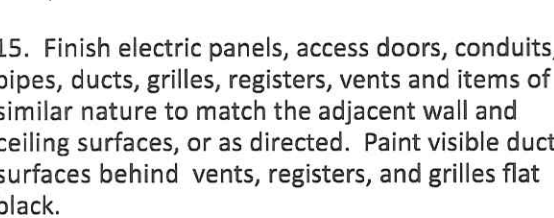
**Note:** Sign to be located either centered on the door or immediately adjacent on the latch side of the door.



D. Letter style to be Helvetica Medium, all upper case, letter size to be 5/8" minimum.



7. Provide undercoat paint produced by the same Manufacturer as the finish coat. Use only the thinners recommended by the Paint Manufacturer, and use only to the recommended limits. Insofar as practicable, use undercoat, finish coat, and thinner material as parts of a unified system of paint finish.



8. Verify that substrate is smooth, level, at required finish elevation, and without more than  $\frac{1}{8}$ " in 10'-0" variation from level or slopes shown on the Drawings. Prior to laying materials, broom clean or vacuum the surfaces to be covered, and inspect the subfloors surfaces to be covered.





## MECHANICAL PLAN KEYNOTES:

- Provide and install new Ductwork per Manufacturer's Instructions and SMACNA Standards, typical.
- Provide and install Supply Air Diffusers per Manufacturer's Instructions and balance to CFM listed on the Drawing, typical.
- Ductwork is exposed in this area, typical.
- Provide and install Return Air Grille per Manufacturer's Instructions and duct back to Unit (NO Plenum Return), typical.
- No Work in this Area.
- Provide and install new Exhaust Fan and Ductwork with cap per Manufacturer's Instructions, typical.
- Provide and install new Fresh Air Intake Louver with cap and Ductwork per Manufacturer's Instructions, typical.
- Existing Condensing Units to remain and be reworked as necessary for new Tenant, typical.
- Run Ductwork in Mechanical Room and drop down through Ceiling for Diffusers, typical above Kitchen.
- Provide and install new Ductless Mini-Split System per Manufacturer's Instructions, typical.
- Light Fixtures - see Electrical Drawings for additional information, typical.

## DIMENSIONS:

- Contractor to verify all dimensions prior to the start of the Project and adjust items as necessary to achieve the intent of the Construction Documents. Major discrepancies should be reported to the Architect.

## EQUIPMENT NOTES:

F-1 - Existing Furnace is Bard DCH065D36B, 65,000 Btu, Natural Gas, 115V, 6.0A, 15A minimum capacity.

AC-1 - Existing Condensing Unit is York HIDE036S06C, 35,600 Btu, 230V, 17.6A, 20.4A minimum capacity.

MS-1 - American Standard 4TXK1624 Ductless Mini-Split Air Conditioner, 230V, 10.2 FLA, 22,000 Btu, 16 SEER.

## MECHANICAL NOTES

- Provide spin in Dampers at all Branch Connections.
- All Mechanical Equipment locations to comply with the Mechanical Code, typical.
- Coordinate exact Diffuser and Grille locations with Electrical Contractor, typical.
- The maximum length of any Flex Duct shall not exceed 5 feet, typical.
- Locate Ducts below Building Insulation, typical.
- All Flex Duct to be UL Class 1, Thermaflex Type KM or Approved Equal, typical.
- Provide 1/2" Liner in Supply and Return Duct work within 5 feet of AHU, typical.
- All outside Air Intakes shall be minimum 10 feet from any Exhaust or Plumbing Vents, typical.
- Extend PVC Drain to the nearest Floor Drain or Service Sink or as shown on the Drawings.
- All new Ductwork to be constructed and installed in accordance with the latest Editions of the ASHRAE Guide and SMACNA Standards, typical.
- Ductwork, Ducts shall be either Galvanized Sheet Metal or 1" thick Fiberboard Duct. Ducts shall conform to the dimensions on the Drawing where possible.
- All Ducts shall be substantially supported with Hangers on minimum 8' centers. Sheet Metal Duct shall be in accordance with the following schedule:

	up to 12" max width	26 gauge steel
13" to 30" max. width	24 gauge steel	
31" to 60" max. width	22 gauge steel	
- Contractor shall make a thorough test of each Supply, Return and Exhaust System to assure proper air flow.
- All Ductwork shall be installed per Latest SMACNA Manual for low pressure design.
- All Insulation, Material Coverings and Adhesives Vapor Barriers and Tapes shall conform to NFPA 90A Flame Spread Classification not to exceed 25 and Smoke Development not to exceed 50.
- Provide 1/2" Interior Duct Liner as indicated on drawings.
- The Exhaust Ducts must terminate 10 feet horizontally from or 3 feet above all Air Intakes, typical.
- Exhaust Ducts shall be 26 gauge Galvanized Steel, typical.
- All factory-made Duct must be Class "0" or Class "1", typical.

## GRILLE, REGISTER & DIFFUSER SCHEDULE

General	Units	A	B	C	G 16x6	G 20x14
Mark	Dwg Tag	A	B	C	G 16x6	G 20x14
Location	Location	Exposed	Ceiling	Ceiling	Ceiling	Ceiling
Device	System	Diffuser	Diffuser	Register	Grille	Grille
Type	System	Surface	Susp.	Surface	Surface	Surface
Service	System	Supply	Supply	Supply	Return	Return
Damper	Y/N	In duct	In duct	In duct	N	N
Construction	Stl./Alum	Steel	Steel	Steel	Steel	Steel
Factory Finish	Descript.	Paint	Paint	Paint	Paint	Paint
Color	Std./Cust.	Std.	Std.	Std.	Std.	Std.
Manufacturer	name	H&C	H&C	H&C	H&C	H&C
Model	name	TBD	TBD	TBD	TBD	TBD

Performance	Max CFM	300	50	200	1200	400
Airflow	inches wg	0.12	0.12	0.11	0.04	0.05
Static Pressure	FPM	500	100	500	1400	500
Max. Velocity	NC	10.0	10.0	10.0	10.0	10.0
Sound Level						

Physical						
• Neck Size	inches	10 rnd	4 rnd	8 rnd	20x10	12x10
• Face Size	inches	12x12	6x6	12x12	-	-
• Panel Size	inches	24x24	12x12	24x24	24x24	24x24
• Pattern	Descript.	See Dwg	See Dwg	See Dwg	See Dwg	See Dwg

## EXHAUST FAN SPECIFICATION

### Centrifugal Exhaust Fan

General	Unit	EF-1	EF-2
Mark	Dwg Tag	EF-1	EF-2
Location	Room	Male T.R.	Female T.R.
Type	System	Ceiling	Ceiling
Drive	System	Direct	Direct
Control	System	Light switch	Light switch
Weight	lb.	12	12

Performance	CFM	75	75
Airflow	Inches wg	0.75	0.25
Static Pressure	RPM	540	540
Fan Speed	BHP	77W	77W
Power Consum	Sones	2.0	2.0
Sound Rating			

Electrical	V/Cyc/HZ	120/1/60	120/1/60
Voltage	HP	77W	77W
Motor Size	RPM	540	540
Motor Speed			

Accessories	Y/N	Y	Y
Disconnect	Y/N	Y	Y
Roof Curb Ht.	Inches	14	14
DB Damper	Y/N	Y	Y
Motor Damper	Y/N	N	N
Ceiling Grille	Y/N	Y	Y
Birdscreen	Y/N	Y	Y
Wall Cap	Y/N	N	N
Speed Control	Y/N	Y	Y

## HVAC GENERAL NOTES & SPECIFICATIONS

### Basic Materials & Methods

- Ball Valves: Brass, full port with Lever Handle.
- Control Valves: Furnished by Equipment Manufacturer.
- Labels: Stenciled Letters and Arrows with Black Paint.
- Sleeves: PVC Pipe or Sheet Metal.
- Fire-Rated Penetrations: Seal with Material approved by local authority.

### Piping Systems

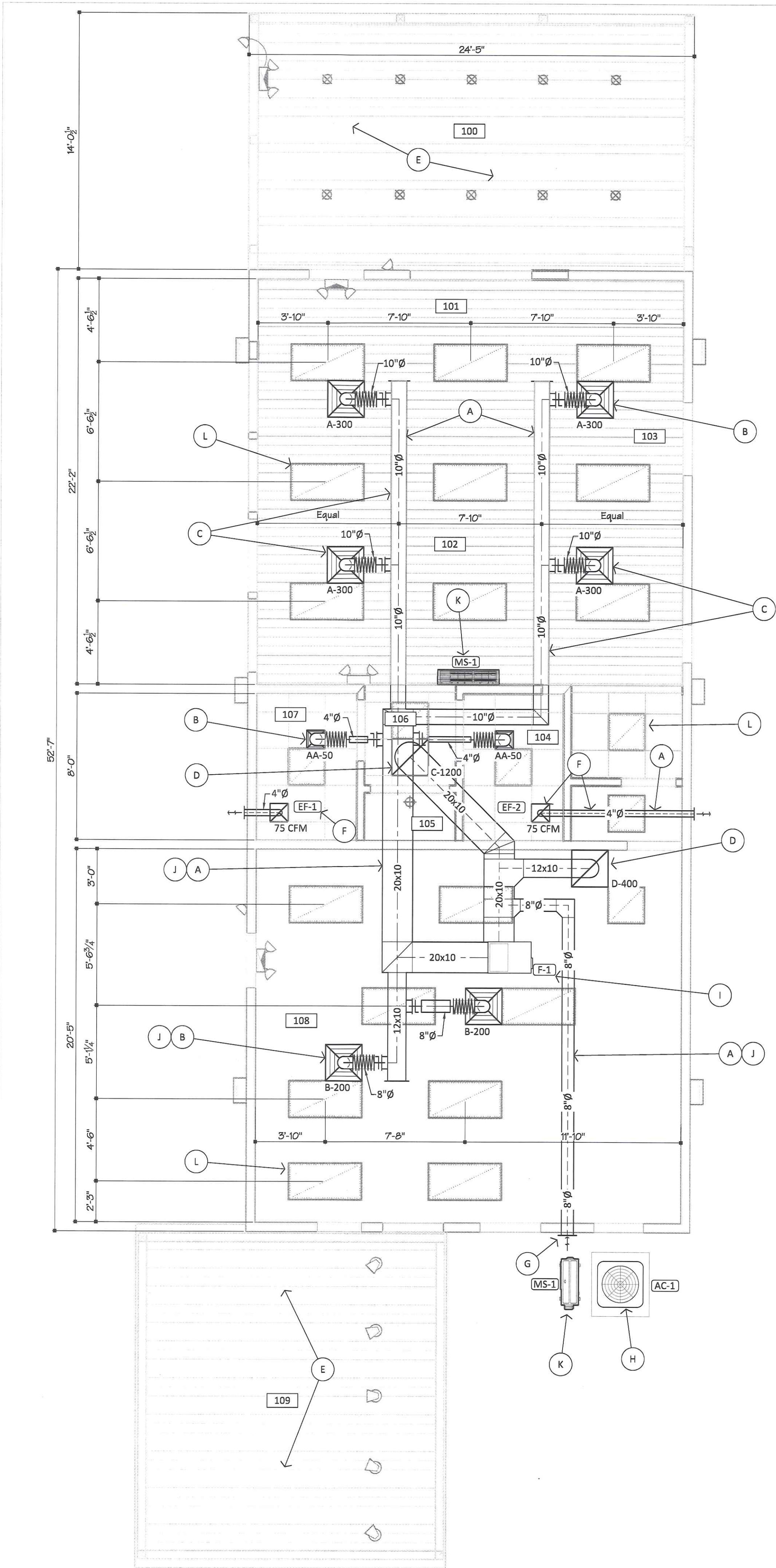
- Condensate Drains: Sch. 40 PVC - Per Mfg.
- Combustion Air/Flue: Sch. 40 PVC/CPVC - Per Mfg.
- Refrigeration Piping: Type ACR Copper or equivalent.

### Insulation

- Condenser Water Supply: 1" thick Fiberglass with jacket, PVC fitting covers.
- Rectangular Supply Ducts: 1.5" thick Fiberglass, blanket/foil on concealed.
- Rectangular Return Ducts: 1 1/2" thick Fiberglass, blanket/foil on exposed.
- Rectangular Exhaust Ducts: 0.5" / 1.5 lb. coated Duct Liner.
- Rectangular Exhaust Ducts: 0.5" / 1.5 lb. coated Duct Liner.
- Round Supply Ducts: 1.5" thick Fiberglass, blanket/foil on concealed.
- Refrigeration Piping: 3/4" Thick Closed-cell w/ sealant on outdoors.
- Rnd./Rect. Outside Air Ducts: 2" Thick Fiberglass, blanket/foil on exposed.
- Round Supply/EA Ducts: 1.5" Thick Fiberglass, blanket/foil on concealed.

### Ductwork Systems

- Rectangular Supply Ducts: SMACNA Gauge Schedule Galvanized Steel.
- Rectangular Return Ducts: SMACNA Gauge Schedule Galvanized Steel.
- Rectangular Exhaust Ducts: SMACNA Gauge Schedule Galvanized Steel.
- Round Supply Ducts (exposed): SMACNA Gauge Schedule Galvanized Steel - spiral.
- Round Supply Ducts (conceal): SMACNA Gauge Schedule Galvanized Steel.
- Rnd SA/EA Ducts (conceal): SMACNA gauge schedule Galvanized steel.
- Round Flue Pipe: Type "B" Doublewall or per Appliance recomm.
- Insulated Flexible Ducts: Wire-supported, limited to 5 foot total length.
- Duct Sizing: Drawing Sizes are net free area.
- Volume Dampers (balancing): Stamped Steel with quadrants or round spin-in.
- Control Dampers: Aluminum Airfoil, low-leak with seals, American Warming model "VC-28".
- Louvers: Exterior Aluminum, 45 degrees blades, birdscreen, Kynar finish, American Warming model "LE-31".
- Supply Diffusers: Ceiling Aluminum, louvered face with panel, white finish, Tuttle & Bailey model "AM".
- Return Grilles: Ceiling Aluminum, 45 degrees blades, white finish, Tuttle & Bailey model "A70D".
- Exhaust Grilles: Ceiling Aluminum, 45 degrees blades, white finish, Tuttle & Bailey model "A70D".
- Return Grilles: Wall Heavy-Duty Steel, 45 degrees blades, aluminum finish, Tuttle & Bailey model "A70D".
- Supply Registers: Duct/Wall Aluminum, double deflection with dampers, white, Tuttle & Bailey model "A54".
- Fire Dampers: as shown Type B or C, Horiz/Vert w/ Access doors - 2 HR

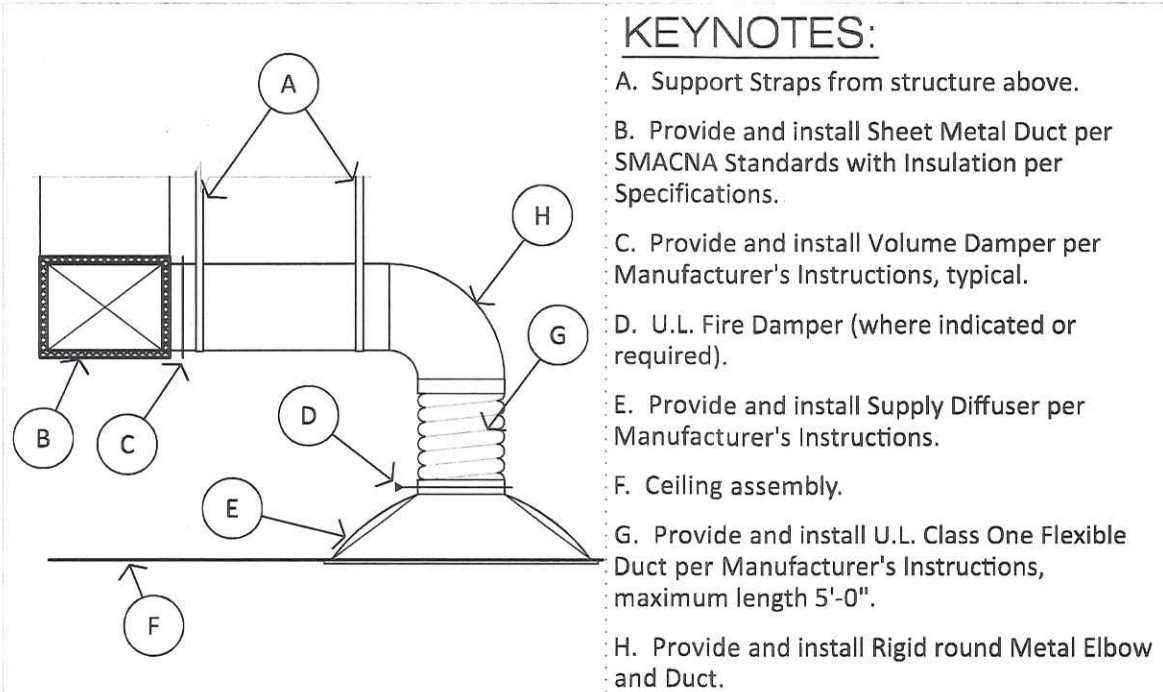


## OVERALL MECHANICAL FLOOR PLAN

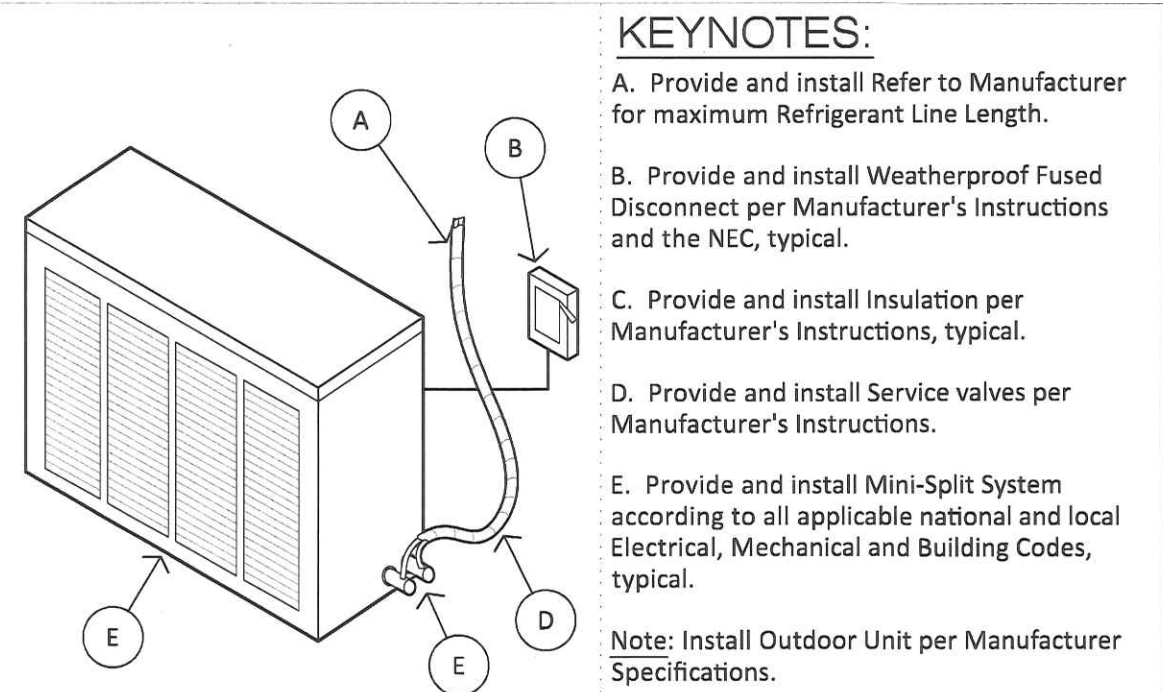
SCALE: 1/4" = 1'-0"



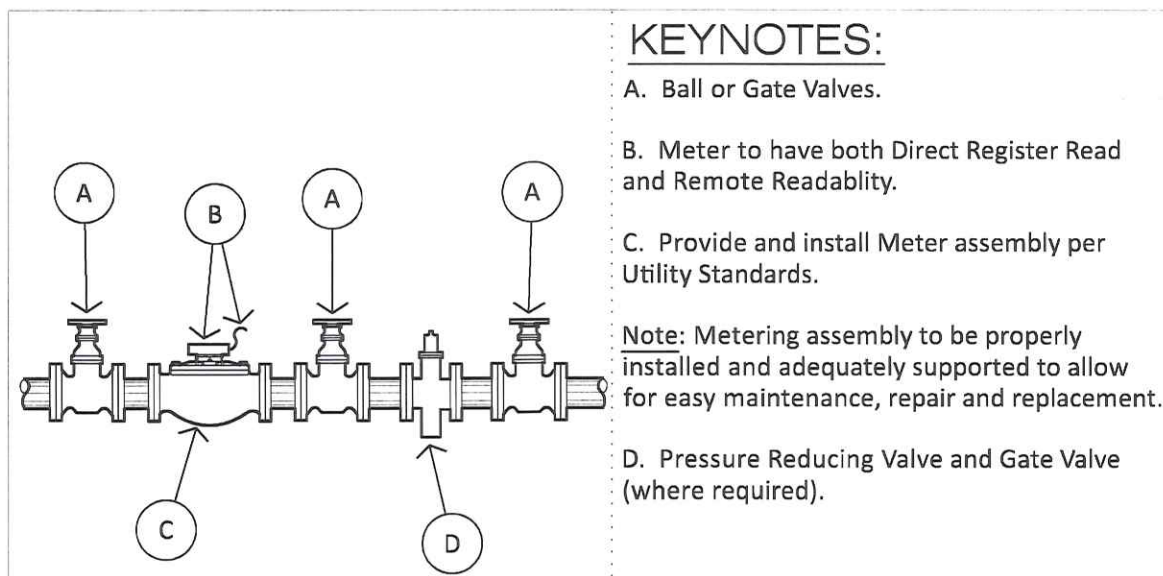




**DUCTWORK INSTALLATION DETAIL**  
SCALE: 1/2" = 1'-0"

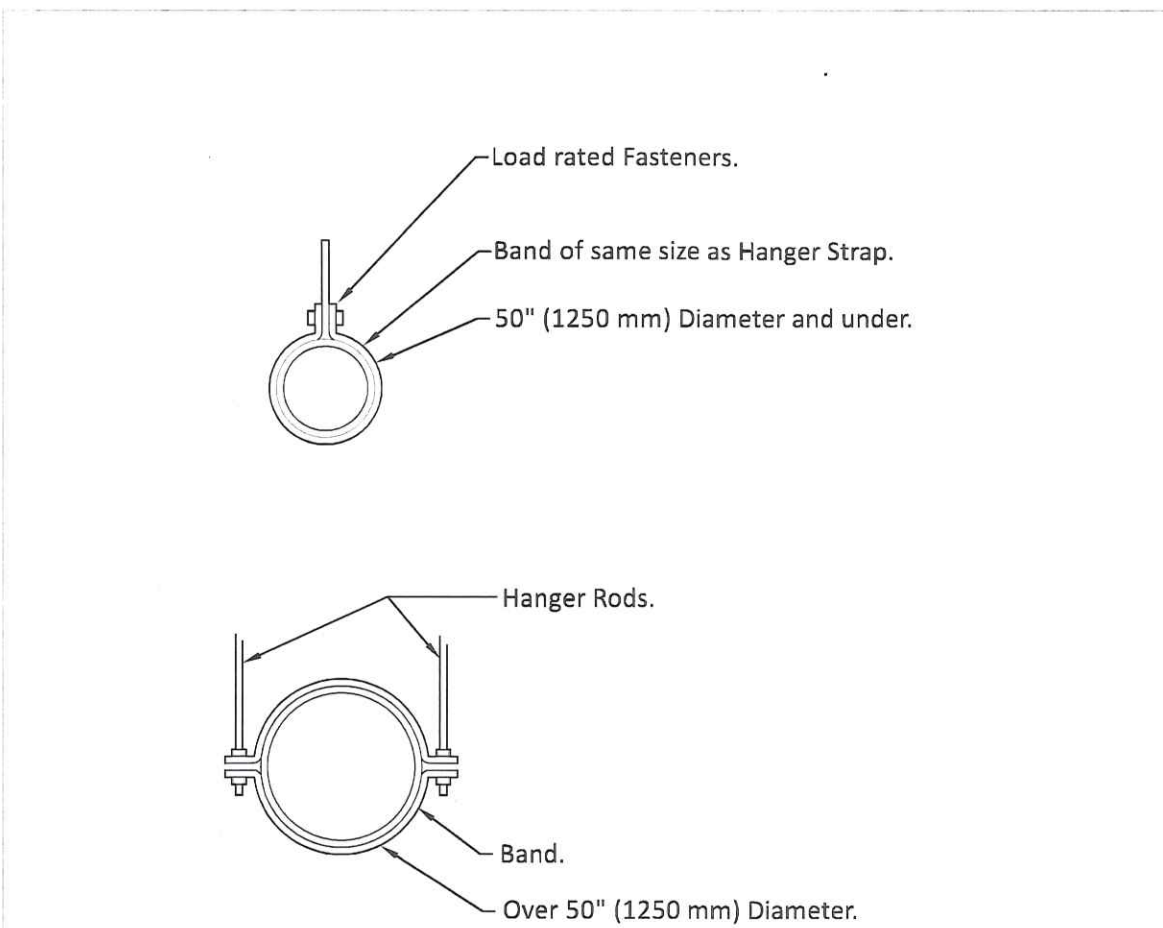


**DUCTLESS MINI-SPLIT OUTDOOR UNIT**  
SCALE: None



**WATER METER DETAIL**  
SCALE: None

Note: For 2" or less Service.

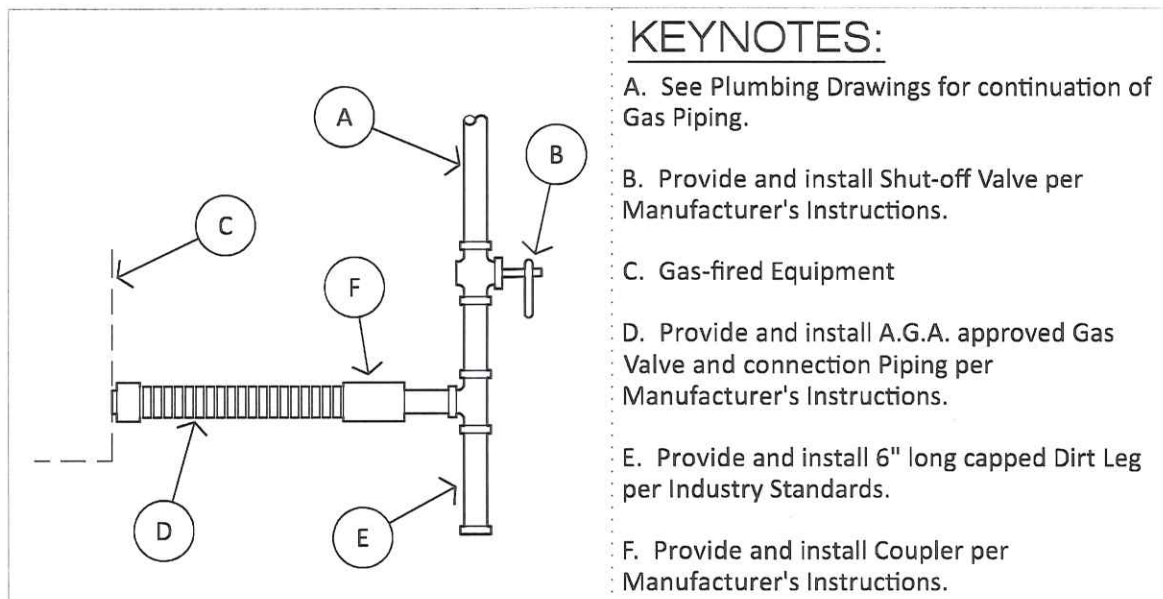


Hanger Straps or Rods				
Max. Duct Dia. In. (mm)	Quantity / Size In. (mm)	Max. Load Lbs. (Kg)	Max. Spacing Ft. (m)	
26 (650)	One 1 (25) x 22 Ga Strap	260 (119)	12 (3.7)	
36 (900)	One 1 (25) x 18 Ga Strap	420 (190)	12 (3.7)	
50 (1250)	One 1 (25) x 16 Ga Strap	700 (317)	12 (3.7)	
60 (1500)	Two 3/8" (10) Dia. Rods	1320 (598)	12 (3.7)	
84 (2100)	Two 1/2" (13) Dia. Rods	2500 (1133)	12 (3.7)	

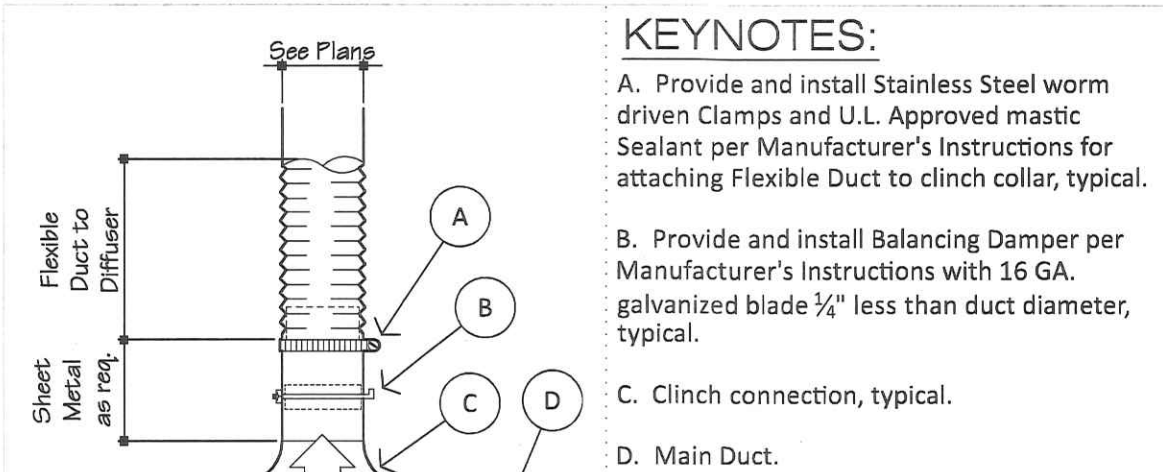
**Notes:**

- 1.Tabulated data from SMACNA allows for Duct Reinforcing and Insulation, but no external Loads.

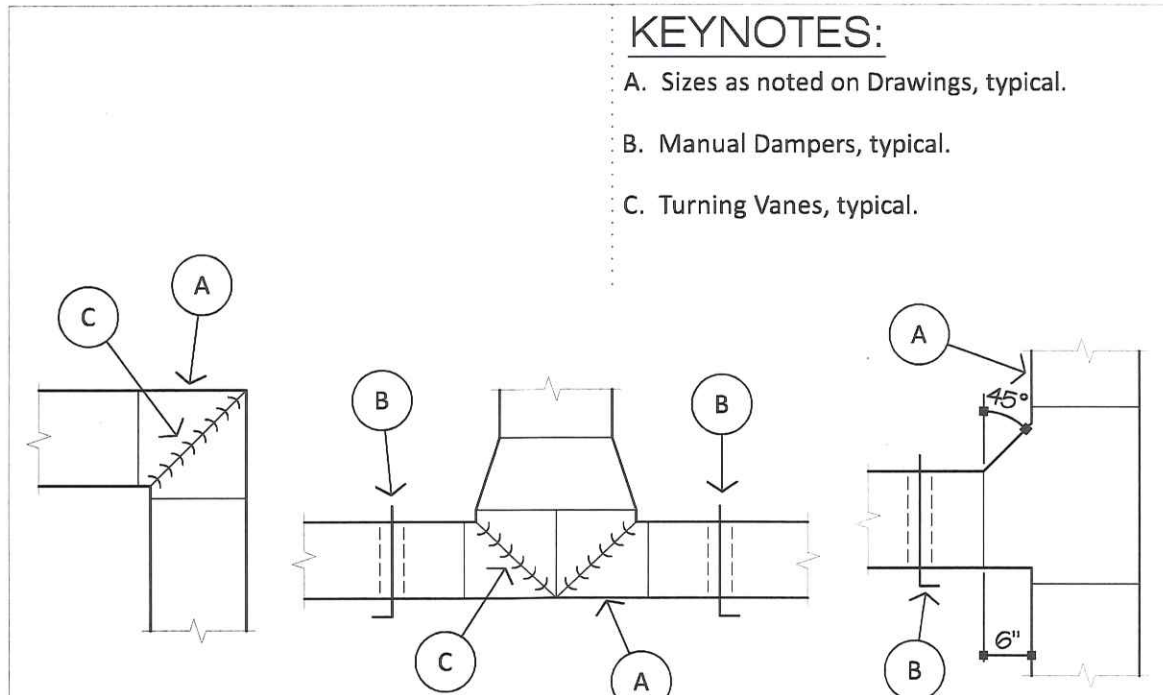
**ROUND DUCT HANGER DETAIL**  
SCALE: None



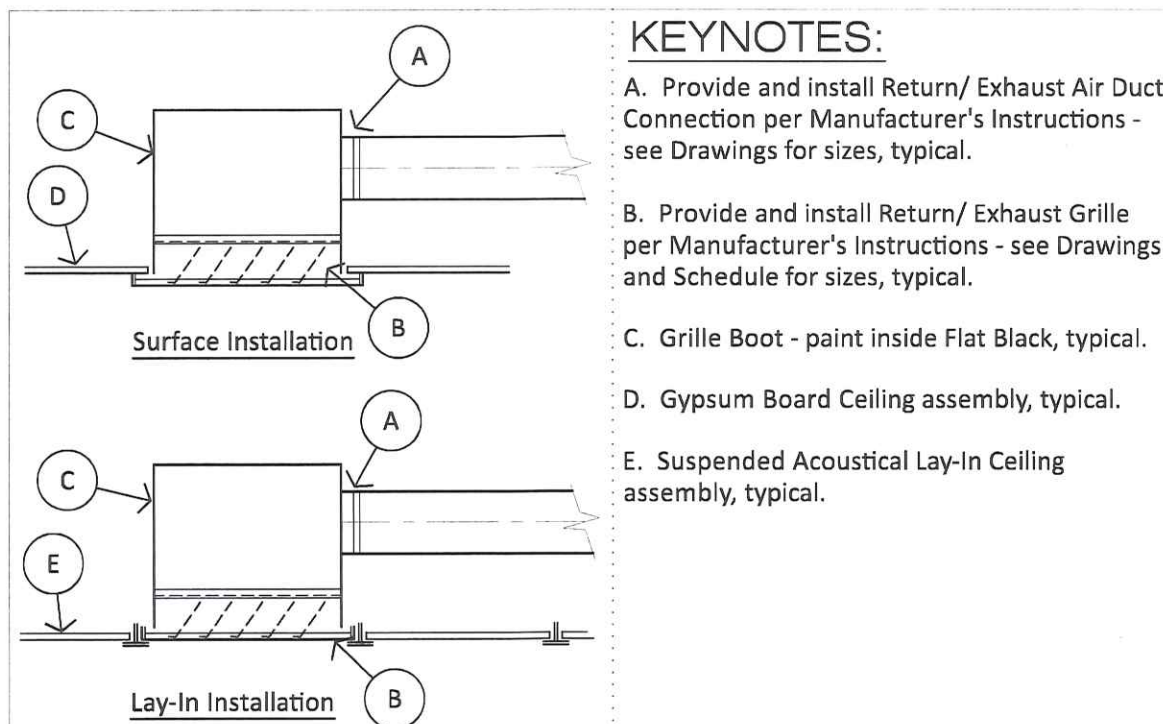
**NATURAL GAS CONNECTION DETAIL**  
SCALE: None



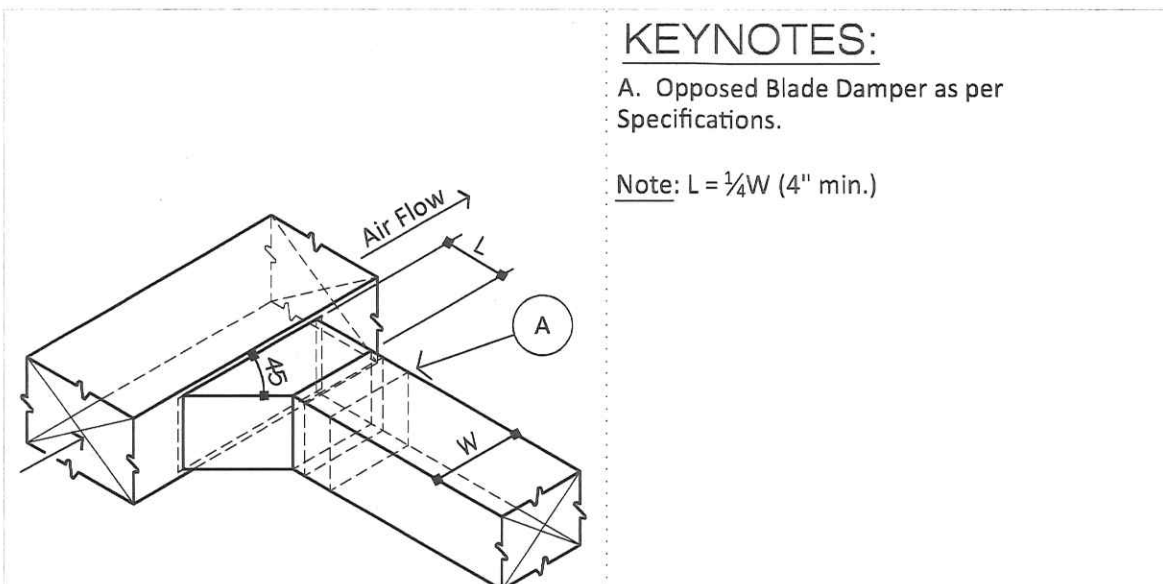
**FLEX DUCT CONNECTION**  
SCALE: None



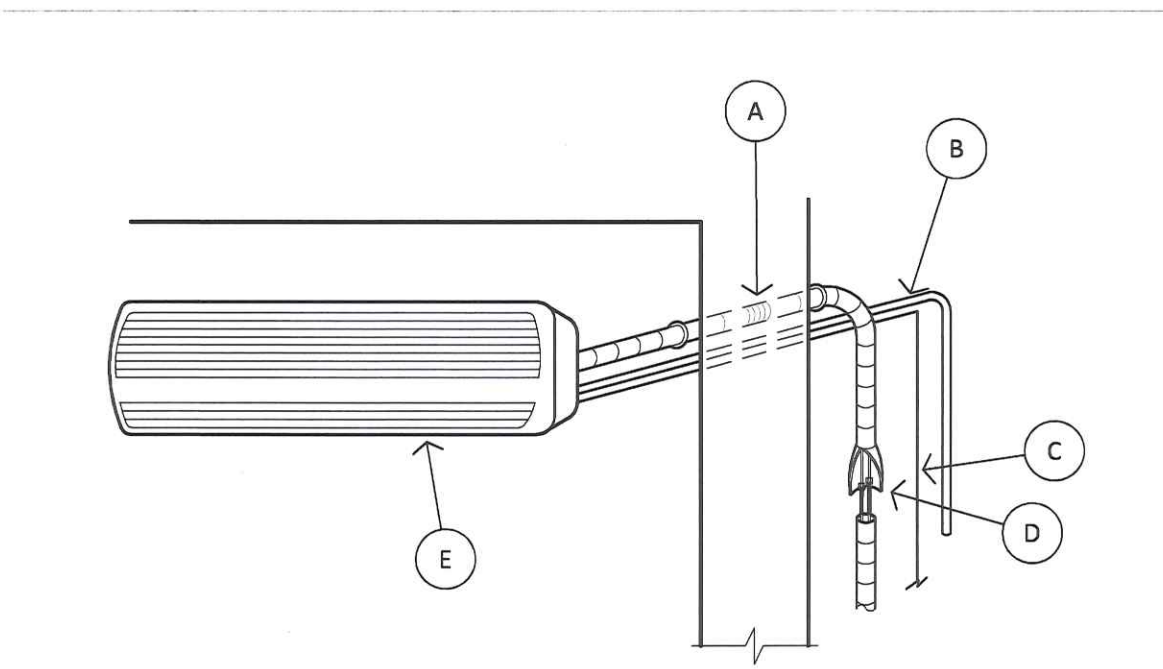
**DUCT TRANSITIONS**  
SCALE: None



**TYPICAL RETURN/ EXHAUST AIR INLET DETAIL**  
SCALE: None



**BRANCH TAKE OFF**  
SCALE: None



**DUCTLESS SPLIT SYSTEM INDOOR UNIT**  
SCALE: None

## 15000 MECHANICAL

### Statement of Intent of Intent

1. The Contract Documents have been prepared to represent, as closely as possible, actual conditions and new installations incorporated with these existing conditions to provide a complete, operating and balanced H.V.A.C. system.

2. Based on the nature (retrofit) of the Project, condition of the existing Facility and the conditions under which the Work is being performed, the Contract Drawings are to be utilized as guidelines only for equipment locations, pipe and duct routing, penetration locations, etc.

3. The Mechanical Contractor assumes complete responsibility for all installation requirements as well as the following aspects of the construction which may not be clearly defined within the Construction Documents:

- Maintain the Structural Integrity of the existing Building, including structural supports for Mechanical Equipment, Units for exterior and Interior wall Penetrations.

- Maintain the Weather Protection integrity of the existing Facility, including Roofing Systems and exterior Wall construction.

- Removing and/or re-routing existing systems within the Building as required to facilitate installation of new systems.

- Installation of Fire and/or Smoke Separation Devices (fire dampers, pipe seals, etc.) as required by national, state and local codes.

- Maintain the integrity of all existing systems indicated to remain in service, including all piping and air systems.

- Access Doors and/or Panels to completed installations, including routine maintenance and filter access and fire and balancing damper access.

5. Coordinate all service (Gas, Heating, Cooling, Electric, etc.) Interruptions a minimum of (7) days prior to actual Interruption.

### H.V.A.C. Scope of WorkScope of Work

1. Provide and install all Mechanical items identified on the Drawings, in the Specifications and as required for a complete, operating and balanced H.V.A.C. system. Existing equipment, piping, duct and controls should be removed, shall be removed and not abandoned.

2. Comply with all Federal, State and local codes, and including, but not limited to, the following:

- NFPA 9090 - Air Conditioning and Ventilating Systems
- ASME - American Society of Mechanical Engineers
- ARI - American Refrigeration Institute
- SMACNA - Sheet Metal and Air Conditioning Contractor's National Association
- ASHRAE - American Society of Heating, Refrigeration and Air Conditioning Engineers
- ASTM - American Society for Testing and Materials

- ANSI - American National Standards Institute
- AGA - American Gas Association
- UL 8181 - Underwriters Laboratories, Inc.
- NEC - National Electric Code
- AMCA - Air Movement and Control Association, Inc.

8. The work includes, but is not limited to:

- Installation of new supply, return and exhaust Ductwork, including balancing Dampers, Supports and Hangers.
- Installation of new H.V.A.C. systems.
- Air outlet and inlet devices.
- Thermal insulation.
- Cutting and patching of existing Walls/ Ceilings for installation of new equipment/ ductwork.
- Automatic Temperature Controls including all low voltage Wiring.
- Testing, cleaning, adjusting and placing into operation all systems and equipment defined in this portion of the Specifications.

### Submittals

1. The H.V.A.C. Contractor shall submit, for review, eight (8) copies of proposed Product Data for all major components of the H.V.A.C. Work. Provide submittal information including not less than, information scheduled and specified within the Contract Documents.

2. After review, the Architect/ Engineer will return all but one copy of the submittals each with one of the following notice of action:

- "No Exception Taken" - indicates final unrestricted release.
- "Note Markings" - indicates final release dependent on compliance with notations made and re-submittal (if requested).
- "Rejected" - submit alternate selection.
- "Comments Attached" - Indicates additional comments have been provided in some additional format.

### Products

1. The Manufacturers listed in the Equipment Schedules are included as a basis of design. Submittal of alternate Manufacturers of similar equipment is subject to approval.

### Air Outlets and InletsOutlets and Inlets

1. Provide Air Outlets and Inlets as defined in the Mechanical Equipment Schedules and in these Specifications and as indicated on the Contract Drawings.

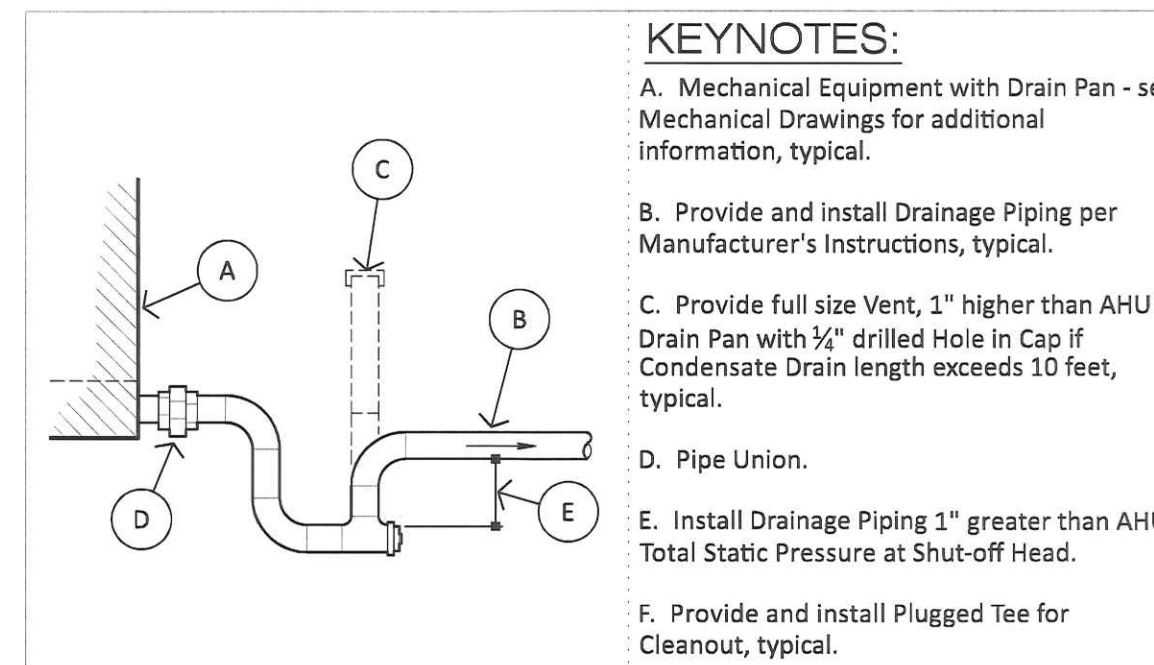
2. Grilles, Registers and Diffusers to be factory assembled devices, constructed completely of Extruded Aluminum and engineered specifically for the application listed in the Mechanical Equipment Schedules. Provide devices with Front Directional Louvers or Perforated Plate, Opposed Blade Volume Damper, Manufacturers standard white finish, appropriate frame for installation into adjacent construction.

3. Provide the following accessories as shown or required for proper installation; operating keys, radiation type fire damper with fusible link, square-to-round transitions, etc.

## KEYNOTES:

- A. Provide and install Wall Hole Sleeve per Manufacturer's Instructions, typical.
- B. Provide and install Drain Line per Manufacturer's Instructions (insulate in unconditioned space), typical.
- C. Provide and install Power and Control Wiring per Manufacturer's Instructions, typical.
- D. Provide and install Refrigerant line flared connection per Manufacturer's Instructions, typical.
- E. Provide and install Fan Coil Unit mounted indoors per Manufacturer Specifications.

Note: Refer to Manufacturer for Minimum Installation Clearances.



**CONDENSATE DRAIN DETAIL**  
SCALE: None

- Knock down style, full perimeter Curb.
- Refrigerant: R-410a

4. Install Units in compliance with Manufacturer's Published Instructions, level and plumb.

5. The equipment Manufacturer shall be responsible for all check, test, and start-up operations.

6. Manufacturers shall be AAO, Carrier, Trane, or York.

### Exhaust FansFans

1. Provide Exhaust Fans as defined in the Mechanical Equipment Schedules and as indicated on the Contract Drawings.

2. Fan shall be wall-mounted Centrifugal Type constructed of a minimum 18-gauge Galvanized Steel with integral duct collars. Motor shall be heavy duty type with permanently lubricated sealed ball bearings.

3. Manufacturers shall be Cook, Acme, or Greenheck.

### Insulation

1. Provide Fiberglass Insulation as defined in these Specifications and as indicated on the Contract Drawings.
2. Provide field applied external Fiberglass Insulating systems in all applications listed below. Provide insulating systems engineered specifically for the application shown on the Contract Drawings:

- All interior concealed Supply and Return Air Ductwork; 1½" thick, foil faced blanket.
- All interior exposed Supply and Return Air Ductwork; 1½" thick, rigid.
- All Supply and Return Air Ductwork located in unconditioned areas; 2" thick, foil faced blanket.

3. Provide reinforced fiberglass tape and lagging adhesive as needed to complete the installation.

4. Install Insulation in compliance with referenced and appropriate standards. Support and fasten securely to listed assemblies. Do not insulate pre-insulated flexible ductwork, flexible equipment connections, access doors and name plates.

5. Manufacturers shall be Owens-Corning or Schuller.

### Automatic Temperature ControlsTemperature Controls

1. Provide Automatic Temperature Control systems as defined in these Specifications and as outlined in the Sequence(s) of Operation located on the Contract Drawings.

2. Provide all factory assembled and tested electric/ electronic Temperature Control components required for a complete functioning control system, including; low and line voltage wiring, interlock wiring, control devices (dampers, actuators, sensors, etc.),

thermostats, etc.

3. Provide Control System(s) which operate as "Stand-Alone".

4. Install Temperature Control systems according to Manufacturers Published Instructions and accepted professional practice. Install temperature control Wiring in EMT conduit.

### Testing, Adjusting and Balancing

1. Contractor shall employ the services of a qualified Balancing Contractor to perform testing, adjusting and balancing procedures for all new and required existing Mechanical systems defined in these Specifications and indicated on the Contract Drawings.

2. Install defined Mechanical systems in cooperation with the Balancing Contractor. Provide to properly balance the specified Mechanical systems. Access door locations are to be coordinated with additional balancing devices and/or system modifications as required, including additional access doors, with other devices, fixtures, features, etc. and approved by Architect.

3. Balance all specified air systems to within +/- 5% capacities defined at air outlets and inlets. Observe and record air capacities of air moving equipment, as well as electrical characteristics to confirm readings. Clearly define, in writing, and submit to the Owner all areas of concern or low capacity.

4. Rebalance existing systems as defined while maintaining capacities at existing air inlets and outlets.

5. Tabulate all balance results in pre-approved format and present to the Owner in a timely manner.

### Execution and Miscellaneous Provisions

1. Install all systems and equipment based on fundamental engineering and construction principles and in conformance with all applicable codes, standards and ordinances.
2. Provide (1) year Warranty on all labor and materials.
3. Provide an additional (4) years, parts only, on all refrigeration compressors.

4. The Mechanical Contractor is responsible for all Permits and Fees required for his Work.

5. The Mechanical Contractor shall provide As-Built Drawings of the completed Mechanical Work. Detail all equipment locations, concealed installation, maintenance and inspection access etc.

6. Provide (4) Operation and Maintenance Manuals consisting of all submitted data, all equipment requiring periodic maintenance, contact name and current telephone number for major equipment, final "signed-off" permits. Present Operation and Maintenance Manuals upon completion of Project, each in it's own 3-ring binder.

New Restaurant for  
Outlaw Attitude BBQ



215 West Front St.,  
Napoleon, Ohio

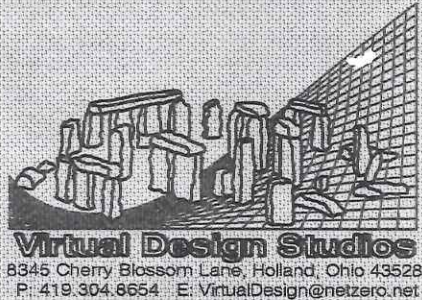
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Signature:

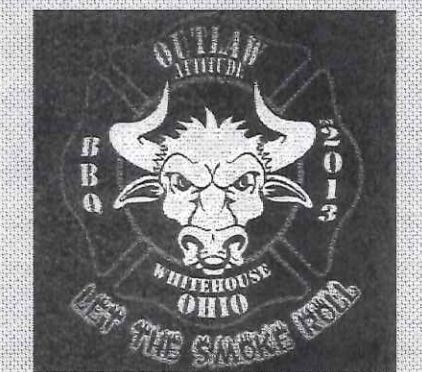
Date:

Richard Livecchi, ARA, NCARB  
License #: 9812  
Expires: 12/31/2019



Virtual Design Studios  
8345 Cherry Blossom Lane, Holland, Ohio 43020  
P: 419.304.6564 E: VirtualDesignStudios.net





## ELECTRICAL POWER KEYNOTES:

A. Provide and install new Meter per Utility direction - verify location with utility prior to installation.

B. Existing Electrical Service to be removed completely.

C. Provide and install new Service Panel (PP-1) per Manufacturer's Instructions, typical.

**Note:** Contractor shall verify Fault Current requirements prior to installing new Service Panel and provide properly rated Panel.

D. Provide and install Telephone Back Board to be Plywood mechanically fastened to existing wall with proper Grounding and Bonding - verify location with Owner, typical.

E. Provide and install Disconnect Switch per Manufacturer's Instructions for Cooler/ Freezer, typical.

F. Provide and install Junction Box for Dishwasher - verify requirements, location, and mounting height with Owner prior to installation, typical.

G. Provide and install 2 Pole Switch for Garbage Disposal per Manufacturer's Instructions, typical.

H. Provide and install Disconnect Switch per Manufacturer's Instructions for Mini-Split System, typical.

I. Existing Disconnect and Feeder to be reused as much as possible for existing Condensing Unit.

J. Provide and install 120V Power Receptacle per Manufacturer's Instructions, typical.

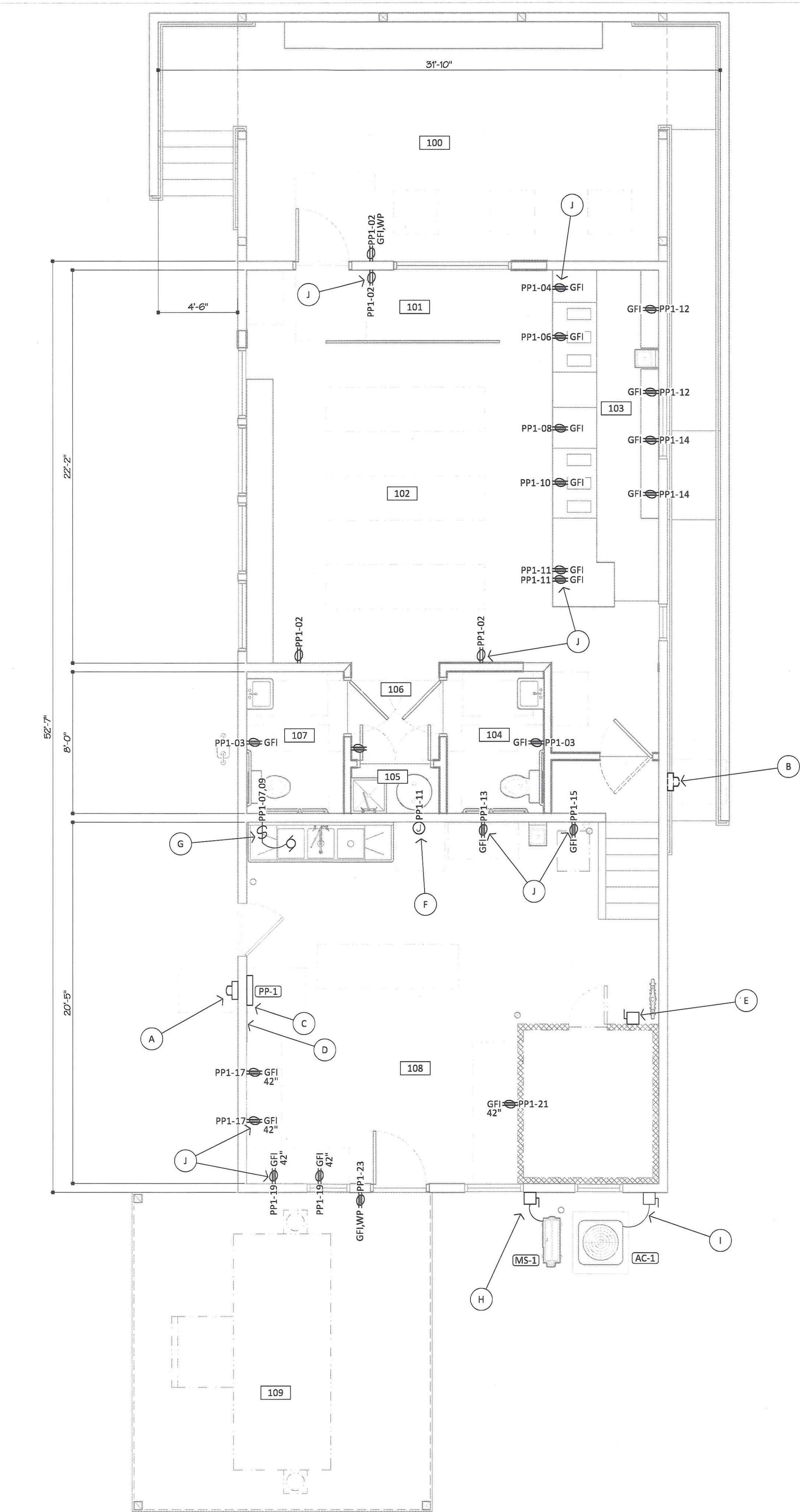
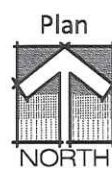
**Note:** All Power Receptacles in the Kitchen and Food Preparation area shall be GFCI per the National Electric Code (NEC).

## ELECTRICAL LEGEND

- 1x2 - 120V Fluorescent Light Fixture
- 2x2 - 120V Fluorescent Light Fixture
- 1x4 - 120V Fluorescent Light Fixture
- 2x4 - 120V Fluorescent Light Fixture
- 12" diameter Recessed Light Fixture
- Exit Sign
- Smoke Detector
- 1x1 Intercom/Speaker
- 12" diam Intercom/Speaker
- 2 headed Emergency Light with 90 minute battery
- 120V Track Lighting
- Single Pole Wall Switch
- 3-Way Wall Switch
- 120V Receptacle
- Telephone Receptacle
- Data/ Computer Receptacle.

## DIMENSIONS:

1. Contractor to verify all dimensions prior to the start of the Project and adjust items as necessary to achieve the intent of the Construction Documents. Major discrepancies should be reported to the Architect.



## OVERALL ELECTRICAL FLOOR PLAN

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

## ELECTRICAL NOTES:

1. Electrical Work shall comply with requirements of National Electrical Code, National Electrical Safety Code of Bureau of Standards, State Building Rules and Regulations and local ordinances, and such other statutory provisions that pertain to this class of Work.

2. Contractor shall guarantee this installation against defects in equipment and/ or workmanship for a period of twelve (12) months from Date of Final Acceptance.

3. Contractor shall visit the Site and examine the premises and shall fully inform himself as to the conditions under which Work is to be done. Failure to do so shall not relieve the Contractor of the responsibility for the full performance of the Contract, nor will extra Compensation be allowed for conditions disclosed after bid opening.

4. Contractor shall provide all materials necessary for proper execution of the Work. All materials shall be new and best of their respective kinds for use intended. Material shall be approved by U.L. Inc. of National Board of Underwriters.

5. Conductors for Power shall be 600 Volt stranded Copper THHN/ THW no. 12 AWG minimum Conduit shall be 1/2" EMT minimum.

6. Contractor shall obtain all necessary Electrical Permits and Certificates of Inspection for construction.

7. Workmanship shall be in accordance with the best practices of the Trade. Electrical Work shall be installed by Journeyman Electricians, under

the direct supervision of a competent Foreman. At no time shall Electrical Work be installed by Apprentice electricians or laborers without the immediate, on the job supervision of a Journeyman Electrician.

8. Contractor shall coordinate his Work with Building Owner and other Trades. Contractor shall do all cutting, fitting and patching that may be required.

9. Electrical Work shall be concealed from view. Exposed Raceways where noted in finished areas shall be run as inconspicuously as possible, i.e. tight to corners, etc.

10. Electrical Contractor shall coordinate all Power Wiring, Safety Disconnect Means, Motor Control and Control Wiring for Mechanical Equipment with the Mechanical Contractor. Locate switches in accordance with the N.E.C.

11. All Circuit Breakers used to feed Mechanical Equipment shall be "HACR" type.

12. Electrical Contractor shall provide Grounding per NEC Article 250.

13. All Penetrations, etc. thru Fire/ Smoke related Partitions or Assemblies shall comply with OBC Chapter 7.

14. Fire Alarm System shall be designed, submitted and installed by a State Licensed and Approved Contractor.

## ELECTRICAL NOTES

1. All Wiring shall be #12 Wire minimum where new Wiring is required.

2. All new Wiring and Devices shall meet or exceed the National Electric Codes (NEC) and Building Code.

3. All new Wiring shall extend from appropriate termination points such as Breakers, Junction Boxes, and the like.

4. All Telecommunications Wiring shall be Category 5 Cable minimum extending back to appropriate termination location.

5. Ground Fault Circuit Interrupt (GFCI) Receptacles or Overcurrent Devices shall be placed where required by the NEC such as outdoors, near sinks, etc.

6. Arc Fault Circuit Interrupt (AFCI) Receptacles or Overcurrent Devices shall be placed where required by the NEC such as living rooms, dining rooms, bedrooms, etc.

7. Tamper Resistant Receptacles shall be installed where required by the NEC.

## 16100 ELECTRICAL

1. This portion of the work includes the furnishing of all labor and materials for the complete wiring system to outlets and all equipment shown on the Drawings or covered by the Specifications. The scope includes complete system of service wiring, conduit, feeders and equipment for telephone services. Complete system of branch circuit wiring, conduit and distribution equipment, lights, receptacles and power. Furnish and install lighting panelboards, lamps, lighting fixtures, wall convenience outlets. All hangers, anchors, sleeves, chases and supports for fixtures and all equipment. Furnish, install and connect wire, conduit and switches, etc. required for equipment covered by other sections of these Specifications. In all excavating and backfill as required for electrical work, provide yellow detection tape -12" all trenches beyond building. Also include the patching and repair of all work modified or damaged by the installation under this contract including access panels, terminal cabinets and backboards.

2. Provide a temporary construction power system that is adequate for this Project. Coordinate requirements and details with the General Contractor. All 120 and 20A receptacles shall be GFCI.

3. All outlets boxes shall be standard one or two piece galvanized knock-out boxes. All outlet box covers, rings or other fittings shall be standard galvanized. No outlet box shall be smaller than four inches (4") square and 1 1/2" deep except in concrete block construction where concrete block boxes are approved. Any unused boxes shall be equipped with a cover plate.

4. Furnish and install 20A, 125 volt, 3 wire grounding type duplex receptacle outlets as indicated on drawings. Device color to be Ivory in light colored walls and Brown in dark colored walls, unless directed otherwise by the Owner.

5. Furnish and install flush tumbler type switches, quiet type 120/277V AC controlling wall and ceiling lighting outlets as indicated on the drawings. Switches color to be Ivory in light colored walls and Brown in dark colored walls

and shall match color of receptacles in same room.

6. All feeder and branch circuit wiring conductors shall be type THHN or TH copper, unless otherwise noted. Number 12 AWG gauge wire shall be the smallest gauge wire used, except for signal circuits which shall be as shown on plans or as specified under other sections of these specifications. All wire #8 AWG gauge or larger shall be stranded.

7. All neutral conductors shall be of the same size as the phase conductors, same feeders or branch circuits.

8. Splices on all wire less than 8 gauge shall be with insulated "Scotchlock", or equal, coil spring connectors. Wire-nuts without coil spring connectors will not be permitted.

9. This Contractor shall furnish and install all lighting fixtures and lamps as indicated on the Electrical Drawings and in accordance with these specifications. All fixtures shall be securely anchored to the building's structure to reduce possible chance of their falling. Continuous runs of fixtures shall be installed straight and true.

10. Motor Disconnects shall be fused switch with dual element fuses and shall be UL listed and shall have external operating handles. Provide disconnects for all motors if not provided by others.

11. A concealed conduit system shall be installed for all interior wiring in floors, in attic, in walls and partitions and below slab on grade. Conduit shall be true and plumb and with the minimum number of bends. Conduit installed in masonry walls shall be rigid steel galvanized conduit.

12. The joints in all conduits installed under concrete slabs on the ground, exposed to weather, shall be made liquid and gas tight. All underground conduit shall be to a depth of not less than 24" below finish grade. Two or more conduit runs installed in a common trench shall be separated by at least four inches (4"). Electrical conduit runs installed in a common

trench to be separated horizontally from other utilities by at least twelve inches (12").

13. All conduits where they enter panel boxes, pull boxes, or outlet boxes shall be anchored with galvanized locknuts and bushings, one (1) locknut inside and one (1) locknut outside on end of conduit. Bushing shall be plastic where conductors are #4 or larger.

14. Conduit 1" and above to have plastic insulated grounding bushings.

15. All empty conduit shall be equipped with a nylon pull cord continuous from outlet to outlet.

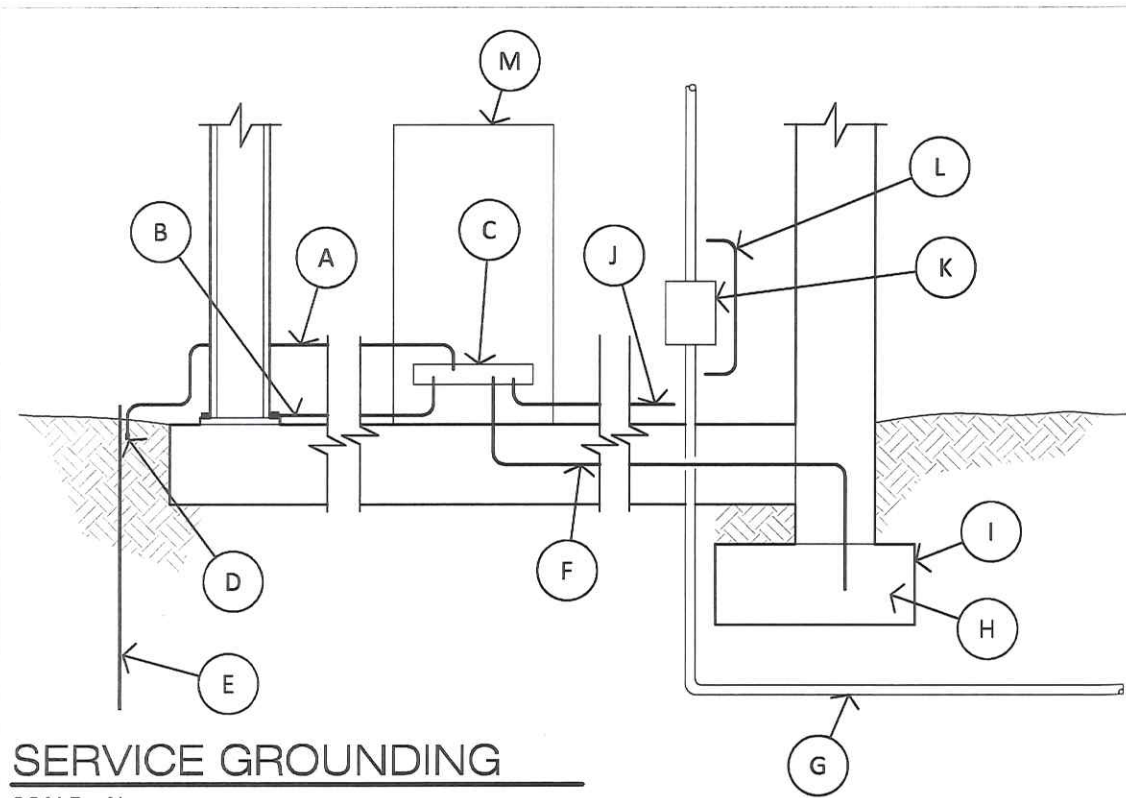
16. Flexible conduit will be permitted for connecting lighting fixtures to junction boxes in suspended ceilings with lay-in type ceiling panels.

17. No conduit smaller than 1/2 inch electrical trade size shall be used.

18. Where light fixtures, conduit, cabinets, or boxes penetrate fire rated construction, provide a rated enclosure or fire stop. Rating of enclosure or fire stop shall match the construction penetrated. Verify location of fire rated areas with Architectural Drawings.

19. The Mechanical Contractor shall furnish equipment such as motors, starters, etc. However, the Electrical Contractor shall be responsible for furnishing disconnect switches, conduits, wire, fittings, connections, etc. for powering the devices.

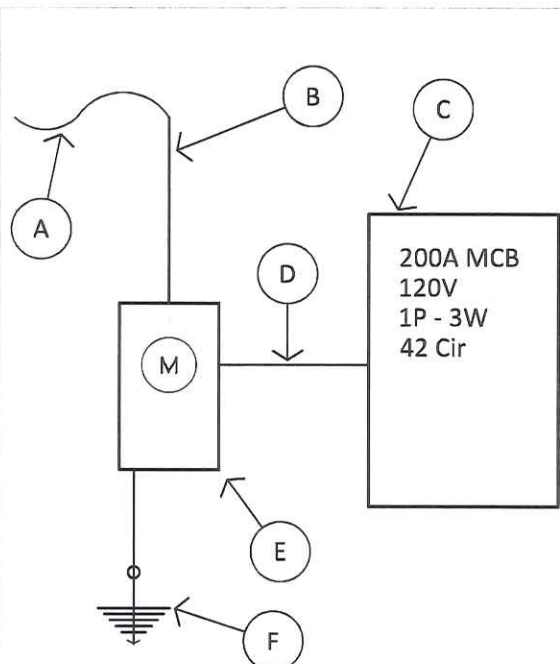




**SERVICE GROUNDING**  
SCALE: None

**KEYNOTES:**

- A. Ground Rod Grounding Electrode Conductor.
- B. Steel Grounding Electrode Conductor.
- C. Neutral Bus.
- D. Bolted connection.
- E. 10'-0" x 3/4" Copper Clad Ground Rod.
- F. Reinforcing steel Grounding Electrode conductor bare.
- G. Metallic Water Main 10'-0" minimum length.
- H. Rebar 20'-0" minimum length.
- I. Thermite Weld with Sphalium coating.
- J. Water Service Grounding Electrode Conductors.
- K. Water meter.
- L. Bonding Jumper bolted connections.
- M. Service Entrance Equipment.



**ONE LINE DIAGRAM**  
SCALE: None

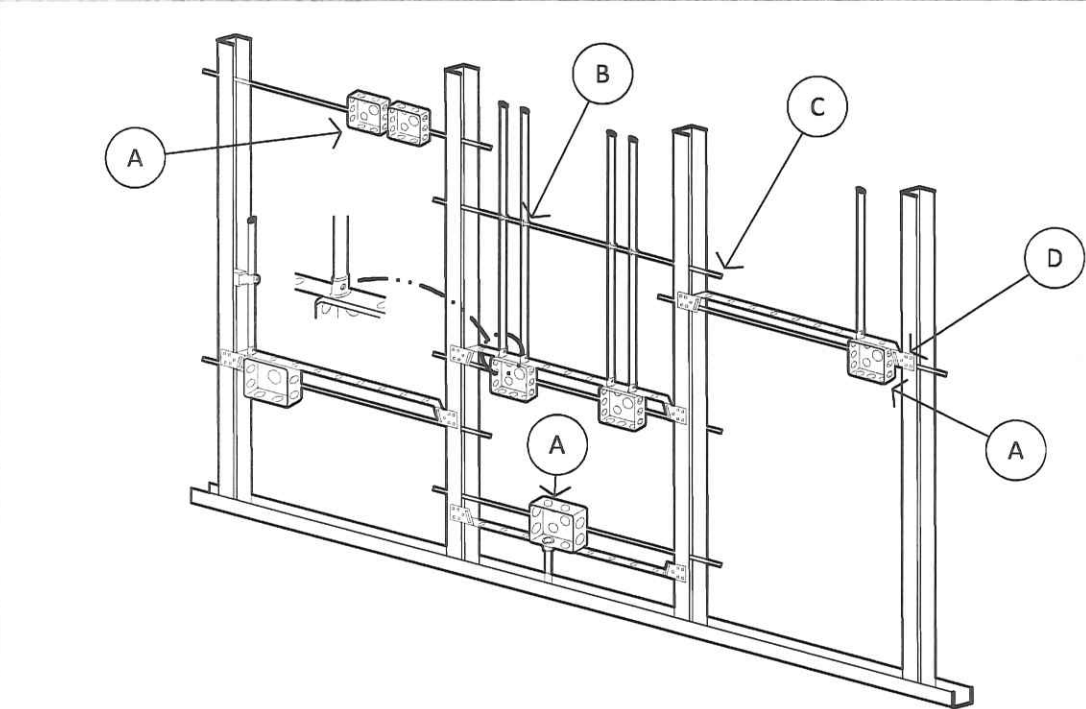
**KEYNOTES:**

- A. Existing overhead Service Conductor per Utility Company to remain.
- B. Provide and install 3#3/0 CU - 2°C per Industry Standards (per Utility).
- C. Provide and install Main Service Distribution Panel per Manufacturer's Instructions.
- D. Provide and install 2 #3/0 CU & 1 #1/0 G - 2°C to MDP per Industry Standards.
- E. Meter (Point of Demarcation).
- F. Grounding per NEC Article 225.

**ELECTRICAL FIXTURE SCHEDULE**

Note: All Fixtures are to be approved by the Client prior to ordering. Alternatives may be offered by the Contractor provided the proposed alternative is equal in quality and performance and approved by the Client.

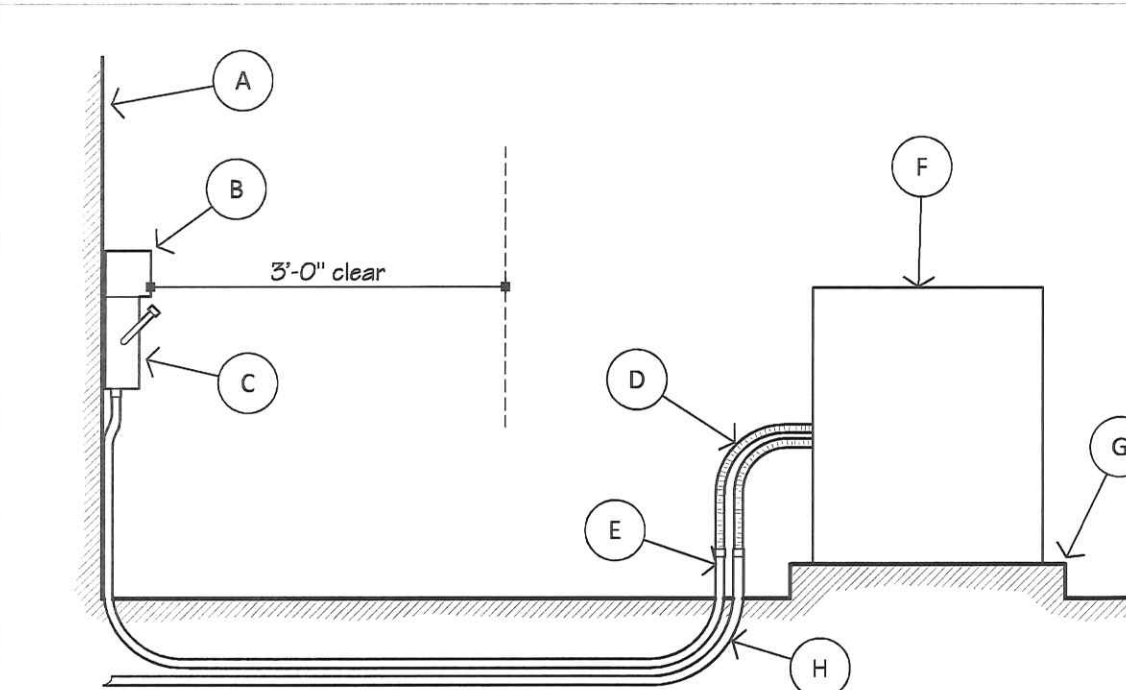
Symbol	Description	Voltage
DS-1 □ (WP)	Disconnect Switch, Amps per Circuit or Manufacturer's Specification for connected device, Water Protected (WP) as noted on Drawings, Square D or Approved Equal.	Dwg
EM-1 ⬆	Emergency Egress Lighting Fixture with 90 minute battery backup, with Remote Exterior Head where shown on the Plans, Lithonia ELM 2 55B or Approved Equal.	120v
EX-3 ⬆	Combination Emergency/Exit Egress Lighting Fixture with 90 minute battery backup, with Remote Exterior Head where shown on Plans, Lithonia LHQM 1R ELN HO or Approved Equal.	120/277v
LED-3 □	2x2 LED 55 Watts Lay-in or suspended Light Fixture, Lithonia or Approved Equal.	120v
LED-2 ⊗	Suspended LED Fixture, 40W Lamp, wired to Switch, selected by Owner.	120v
J-1 J	Junction Box, compatible with Wiring Methods being used, Accessible per NEC.	
LED-1 □	2x4 LED 55 Watts Lay-in or suspended Light Fixture, Lithonia or Approved Equal.	120v
MTR-1 p	Electrical Service Meter, coordinate with Local Utility, water protected (WP), Square D or Approved Equal.	Dwg
PNL-1 □	Service Panel with Service Disconnect Switch, 42 Circuits, surface mounted, coordinate with Local Utility, Square D or Approved Equal.	Dwg
PR-1 ⊕	Power Receptacle, grounded, MH = 18" A.F.F. unless noted otherwise, #12 Wire minimum.	120v
PR-2 ⊕ GFI (WP)	Power Receptacle, Ground Fault Circuit Interrupter (GFI), grounded, MH = 18" A.F.F. unless noted otherwise, #12 Wire minimum.	120v
RH-1 ⬆	Remote Head Emergency Egress Lighting Fixture, Lithonia #ELA-NX-HO606 or Approved Equal.	120v
SW-1 ⊕	Single Pole Switch, 20A, Grounded, MH = 48" A.F.F. unless noted otherwise, #12 Wire minimum.	120v 277v
SW-3 ⊕	Switch, three-way wiring, 15A or 20A, grounded, MH = 48" A.F.F. unless noted otherwise, #12 Wire minimum.	120v 277v
WP-4 □	Exterior Wall-Pak Fixture with Photocell, LED, wall mounted. Lithonia TWS-LED-50K-120V-PE or Approved Equal.	120v



**TYPICAL ROUGH-IN REQUIREMENTS**  
SCALE: None

**KEYNOTES:**

- A. Provide and install Wall Outlets Boxes per Manufacturer's Instructions, typical.
- Note: Locate all Outlet Boxes in accordance with Architectural and Mechanical Drawings.
- B. Provide and install Conduit Supports per Manufacturer's Instructions and in accordance with NEC. Spacing requirements for type of Raceway required.
- C. As required for Type of Construction.
- D. Provide and install Box Support per Manufacturer's Instructions, typical.
- Note: Typical for Wood and Metal Stud Rough-in.
- Note: in accordance with the Building and Electrical Codes, Outlets on opposite sides of Walls or Partitions in the same Stud Space must be separated by a minimum of 24" horizontal distance.



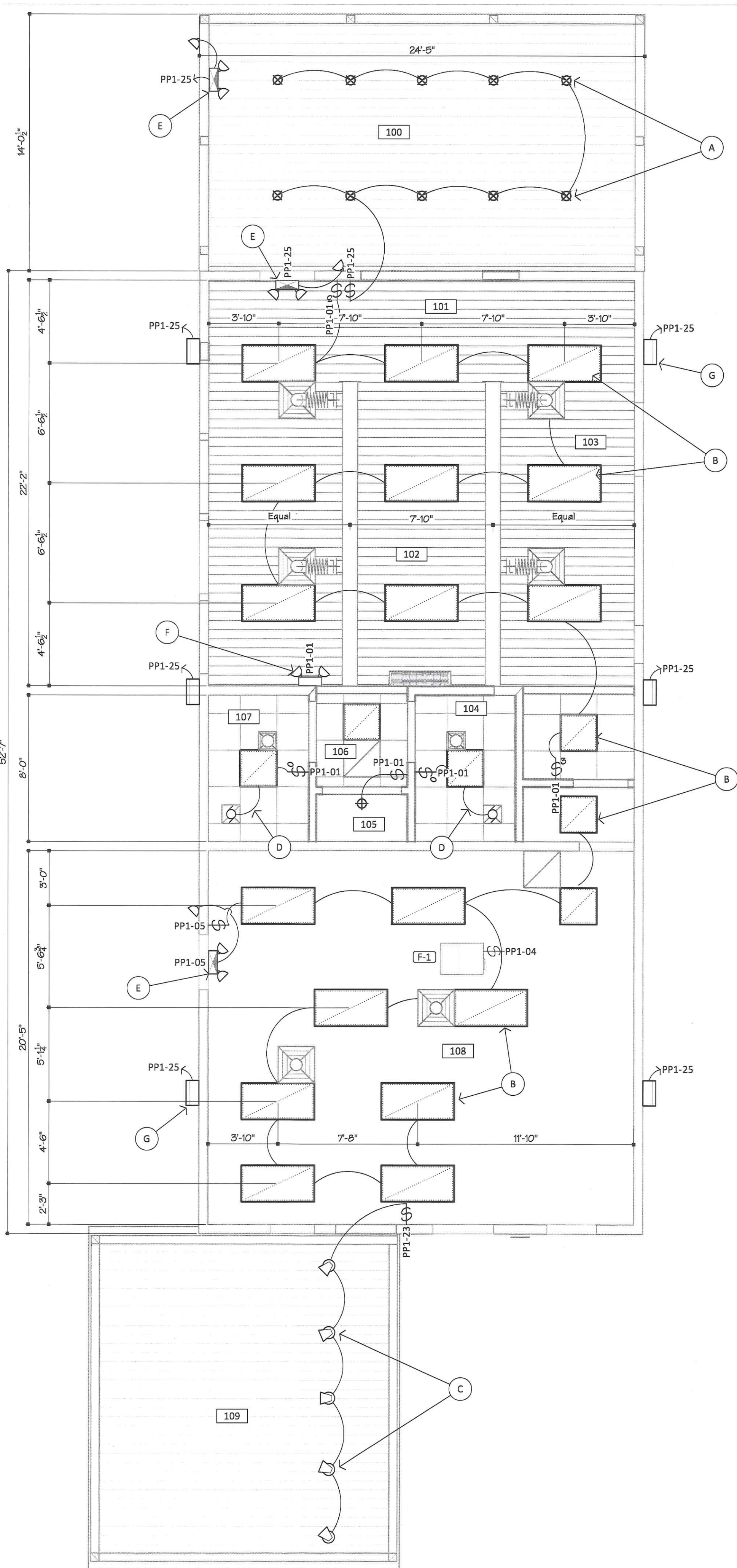
**CONDENSING UNIT CONDUIT DETAIL**  
SCALE: None

**KEYNOTES:**

- A. Building Exterior.
- B. Provide and install 6"x 6" Rain-Tight Wire Way per Manufacturer's Instructions, typical.
- C. Provide and install Disconnect Switch per Manufacturer's Instructions, typical.
- D. Provide and install Liquid-Tight Flex Conduit per Manufacturer's Instructions - 3'-0" maximum length.
- E. Provide and install Approved Underground Conduit per Manufacturer's Instructions, typical.
- F. Condensing Unit - see Mechanical Drawings for additional information, typical.
- G. Concrete Slab.
- H. Provide and install Separate Control Conduit per Manufacturer's Instructions, typical.

NEMA RATING: <input checked="" type="checkbox"/> 1 <input type="checkbox"/> 3R				PANEL NAME: PP-1				VOLTAGE: 120/240V 1P,3W							
SERVICE RATED: <input type="checkbox"/>				LOCATION: ROOM 108				A.I.C. RATING: 14,000A							
200% NEUTRAL BUS: <input type="checkbox"/>				MOUNTING: SURFACE				MAIN C.B. SIZE: 200A							
ISOLATED GND BUS: <input type="checkbox"/>								BUS SIZE: 225A							
OUTLETS				DESCRIPTION				OUTLETS							
CL	CO	REC	MS	PH	A	PH	B	C.B.	A	PH	B	CL	CO	REC	MS
1					770			1	20	20	1	360			2
3							540	1	20	30	1	2000			4
5					550			1	20	20	1	1500			6
7						1800	2	20	20	1		720			8
9					1800			2	20	20	1	420			10
11						1400	1	20	20	1		360			12
13					360			1	20	20	1	360			14
15						1800	1	20	20	1		1600			16
17					360			1	20	20	1	600			18
19						360	1	20	20	1		1400			20
21					360			1	20	30	2	2200			22
23						455	1	20	30	2		2200			24
25					600			1	20	30	2	2200			26
27						550	1	20	30	2		2200			28
29							1	20	20	1					30
31							1	20	20	1					32
33							1	20	20	1					34
35							1	20	20	1					36
37							1	20	20	1		Spare			38
39							1	20	20	1		Spare			40
41							1	20	20	1		Spare			42
REFERENCE NOTES: (SEE DESCRIPTION):				SUBTOTAL CONNECTED LOAD (VA)				12,440		17,385		TOTAL CONNECTED LOAD: 29.8 KVA			
(1) Controlled via lighting control system/panel.				CONTINUOUS LOAD ADDITION (VA)				0		0					
(2) Provide separate neutral for each of these circuits.				25% LARGEST MOTOR ADDER (VA)											
(3)				TOTAL CONNECTED LOAD (VA)				12,440		17,385		TOTAL DEMAND LOAD: 29.8 KVA			
(4)				TOTAL LINE CURRENT (A)				103.7		144.9		MAXIMUM CURRENT: 144.9 A			

**PANEL SCHEDULE PP-1**  
SCALE: 1/4" = 1'-0"



**OVERALL ELECTRICAL CEILING PLAN**  
SCALE: 1/4" = 1'-0"

**ELECTRICAL LIGHTING KEYNOTES:**

- A. Provide and install new suspended LED Fixture per Manufacturer's Instructions - Fixture to be selected by Tenant, typical.
- B. Provide and install new surface mounted LED Light Fixture per Manufacturer's Instructions - Fixture to be selected by Tenant, typical.
- C. Provide and install new surface mounted LED Spot Light Fixture per Manufacturer's Instructions - Fixture to be selected by Tenant, typical.
- D. Wire new Exhaust Fan with Light Switch so both operate when switch is activated, typical.
- E. Provide and install new Emergency-Exit Light per Manufacturer's Instructions and wire before any Switching on local Circuit, typical.
- E. Provide and install new Emergency Light per Manufacturer's Instructions and wire before any Switching on local Circuit, typical.
- G. Provide and install new LED Wall Pak Fixture per Manufacturer's Instructions - Fixture to be selected by Tenant, typical.

**ELECTRICAL LEGEND**

- 1x2 - 120V LED Light Fixture
- 2x2 - 120V LED Light Fixture
- 1x4 - 120V LED Light Fixture
- 2x4 - 120V LED Light Fixture
- 12" diameter Recessed Light Fixture
- Exit Sign
- Smoke Detector
- 1x1 Intercom/Speaker
- 12" diam Intercom/Speaker
- 2 headed Emergency Light with 90 minute battery
- 120V Track Lighting
- Single Pole Wall Switch
- 3-Way Wall Switch
- 120V Receptacle
- Telephone Receptacle
- Data/ Computer Receptacle.

**DIMENSIONS:**

- 1. Contractor to verify all dimensions prior to the start of the Project and adjust items as necessary to achieve the intent of the Construction Documents. Major discrepancies should be reported to the Architect.



PLUMBING LEGEND:

—	Domestic Cold Water Piping
—	Domestic Hot Water Piping
—	Domestic Hot Water Return Piping
—	Natural Gas Piping
—	Sanitary Vent Piping
—	Sanitary Piping below Floor
—	Sanitary Piping above Floor
—	Grease Piping below Floor
—	Condensate Drain
—	Flow Direction

FCO	Floor Cleanout
COTG	Cleanout to Grade
WCO	Wall Cleanout
A.F.F.	Above Finished Floor
F.F.E.	Finished Floor Elevation
I.E.	Invert Elevation
P.C.	Plumbing Contractor
G.C.	General Contractor

—	Union
—	Shutoff Valve
—	Check Valve
—	3-Way Mixing Valve
—	Backflow Preventer
—	Globe Valve
—	Butterfly Valve
—	Gas Plug Cock
—	Plug Valve
—	2-Way Control Valve
—	Pressure Reducing Valve
—	Solenoid Valve
—	Strainer
—	Strainer with Blowdown
—	Pump

—	Piping Elbow down
—	Piping Elbow up
—	Piping Tee down
—	Piping Tee up
—	Hose Bibb
—	Freezeproof Wall Hydrant
—	Trap Primer
—	Vent thru Roof
—	Fire Riser
—	Pressure Gauge
—	Thermometer with Range
—	Safety or Relief Valve

PLUMBING NOTES:

- For Cleanout Cover types for various Floor Finishes, refer to Plumbing Fixture Schedule.
- All cutting and patching of Walls, Floors, Ceilings, etc., is to be completed by the Plumbing Contractor unless otherwise noted.
- All Pipes passing through Walls and Floors shall have Pipe Sleeves. In mechanical equipment rooms, etc., and areas where there are Floor Drains, the Plumbing Contractor shall install a 3" thick Concrete Curb encasing the Sleeves at the Floor.
- Plumbing Piping passing through above grade Floors and Fire Rated Walls must be grouted to close openings or voids around Pipe, or the Openings or Voids shall be packed and sealed with Fireproofing material.
- Connect Gas Lines to Gas Fired Equipment with Gas Cock Valve, Dirt Leg and Union.
- Exposed Piping in Toilet Rooms, Kitchens and similar finished areas shall be Chrome plated or have Stainless Steel Sleeves.
- Where Valves, Water Hammer Arrestors (WHA) and Trap Primers are installed in chases or concealed areas, provide Access Door for servicing.
- At all Trap Primers, install Shutoff Valve in branch line to Trap Primer. Branch line to Trap Primer shall be off top of main. Water line shall be insulated as for other Cold Water Piping.
- Insulate above grade Floor Drain Traps and Sanitary Piping for minimum 30 feet receiving discharge from Air Conditioning Equipment or other Cold Water discharge.
- At Handicapped Lavatories and Sinks, Insulate the Hot and Cold Water Supplies and Trap and Drain.
- At Handicapped Water Closets, Flush Valve Handle or Trip Lever is to be installed to wide side of Fixture.

PLUMBING NOTES:

- Soil, Waste, and Vent Piping inside buildings and under concrete shall be standard weight, coated Cast Iron or PVC solid pipe.
- Sewer Piping not under the building or concrete may be Vitreous Clay tile or PVC piping.
- Vent Piping and Drain Piping above floors, sizes 3" and larger shall be standard weight Cast Iron or PVC. Piping 2½" and smaller located 6" or more above the building floor shall be standard weight Galvanized Steel Pipe or PVC.
- Water Piping shall be Type I Copper with copper fittings or PEX piping.
- Gas Pipe shall be schedule 40 black steel pipe.
- Fixture stops shall be American Standard, Kohler, or equal.
- Pipe hangers and supports shall be ring type, with ¾" hanger rods, unistrut and "V" support.
- Fixtures are American Standard, Kohler, or approved equal.
- All Vent Pipes passing through roof shall extend minimum 7" above the roof line and shall be flashed with 4 pound lead peened in top of vent.
- Install Cleanouts in all drainage lines, where shown or required by code.
- Lines must have a uniform continuous fall to the point of connection with existing sewer and should be ¼" per foot, unless otherwise shown on the Drawings.
- All horizontal vent lines shall pitch up to the vent stack at ¼" per foot minimum. Vents shall be ganged wherever possible.

PIPE SCHEDULE:

Size	Purpose
¾" Supply	Supplying Water to Lavatories (Hot and Cold lines), Tank Water Closets, and Drinking Fountains from supply Main.
¾" Supply	Supplying Water to Urinals from supply Main.
2" Drain	Sanitary Pipe from Lavatories and Urinals to Sanitary Main. Contractor to provide proper slope per Codes.
3" Drain	Sanitary Pipe from Water Closets to Sanitary Main. Contractor to provide proper slope per Codes.
1½" Vent	Vent Pipe from Lavatories, Urinals, and Water Closets to main Vent line.
1½" + Supply	Main supply Water Line - see Drawings for sizes.
4" Drain	Main Sanitary drain line - see Drawings for sizes.
2" Vent	Main Vent line - see Drawings for sizes.

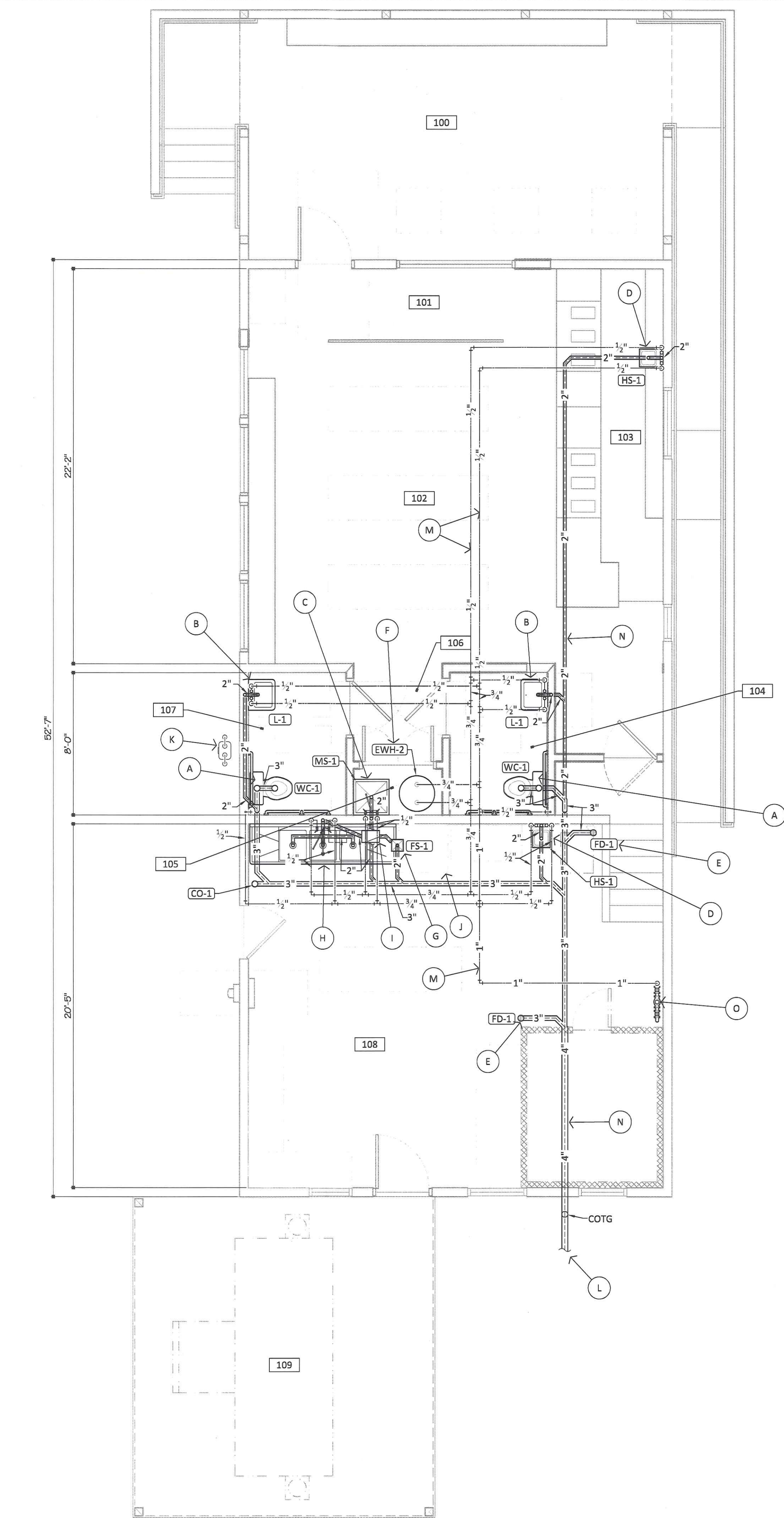
PLUMBING FIXTURE SCHEDULE:

Note: All Plumbing Fixture shall be installed per Manufacturer's Instructions, the Accessibility Code (where applicable) and the Plumbing Code.

Symbol	Description	CW	HW	San	Vent
CO-1	3" Cast Iron body with round heavy duty Bronze Grate.	-	-	3"	-
EW-2	UL 20 gallon Electric, 120v/1p/60hz, 1.5 kw, suitable for Wall Mounting with T/P Safety Valve, Tank Drain fitting, Thermostat.	1"	1"	-	-
FD-1	3" Cast Iron body with round Heavy Duty Bronze Grate and ½" Trap Primer Connection.	½"	-	3"	-
MS-1	24"x 24" Poly-Formed Floor Basin (Mop Sink) with stainless steel Drain, polished Chrome-Plated service sink Fitting with Lever Handles, ¾" threaded Hose Connection, flexible hose connection fitting, vacuum breaker. Stainless steel Utility Mounting Device: Pail Hook, Broom/Mop Holder.	½"	½"	3"	1½"
L-1	Wall Hung, self-rimming, 20"x17", ADA Approved Lavatory, white vitreous china, front Overflow with pop-up Drain, 4" center Faucet holes, polished chrome ADA Approved Faucet, ceramic disc valve cartridge, 4" Spout with laminar flow outlet. Stops - ½" chrome plated with flexible risers and Lever Handles, and Protective P-Trap Cover.	½"	½"	1½"	1½"
FS-1	8"x 8" Poly-Formed Basin with drain and trap primer as required.	-	-	2"	1½"
WC-1	Floor set, Tank type Water Closet, ADA Approved, Elongated bowl, white vitreous china, 1½" top spud, 1.6 GPF, white solid plastic Elongated open front Seat with self-sustaining stainless steel Check Hinges.	1"	-	4"	2"

Notes:

- Provide Ball Valves at all Fixture Connections, Brass, full port with Lever Handles.
- Insulate all Supply Lines with ½" thick Fiberglass with jacket, PVC Fitting covers.
- Provide Sleeves where Pipes penetrate walls, seal openings.
- Provide Labels with Stenciled Letters and Arrows with black paint.



OVERALL PLUMBING FLOOR PLAN

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

PLUMBING PLAN

KEYNOTES:

- Provide and install new Accessible Water Closet per Manufacturer's Instructions and the Accessibility Code, typical.
- Provide and install new Accessible Lavatory per Manufacturer's Instructions and the Accessibility Code, typical.
- Provide and install new Service Sink per Manufacturer's Instructions, typical.
- Provide and install new Hand Sink per Manufacturer's Instructions and the Health Code, typical.
- Provide and install new Floor Drain per Manufacturer's Instructions, typical.
- Provide and install new Hot Water Tank per Manufacturer's Instructions - extend pressure relief piping to empty into Service Sink, typical.
- Provide and install new Floor Sink per Manufacturer's Instructions and the Health Code, typical.
- Provide and install new 3 Compartment Sink per Manufacturer's Instructions and the Health Code, typical.
- Provide and install new floor mounted Grease Trap per Manufacturer's Instructions and the Health Code, typical.
- Provide necessary piping to have the Dishwasher to discharge indirectly into the Floor Sink.
- Existing Gas Meter to remain, typical.
- Connect new Sanitary Piping into the existing Sanitary Sewer - field verify location, typical.
- Provide and install new Domestic Water Piping per Manufacturer's Instructions and the Plumbing Code, typical.
- Provide and install new Domestic Sanitary Piping per Manufacturer's Instructions and the Plumbing Code, typical.

Note: Contractor has the option of modifying the piping layout as needed to avoid conflicts and existing conditions, typical.

O. Relocated existing Water Meter - field verify location.

RPZ BACKFLOW w/ EXPANSION TANK, BR.

DIMENSIONS:

- Contractor to verify all dimensions prior to the start of the Project and adjust items as necessary to achieve the intent of the Construction Documents. Major discrepancies should be reported to the Architect.



New Restaurant for  
Outlaw Attitude BBQ



215 West Front St.,  
Napoleon, Ohio

VDS No.: 170827

Signature: Richard Livecchi, AIA, NCARB  
Date: Expires: 12/31/2019



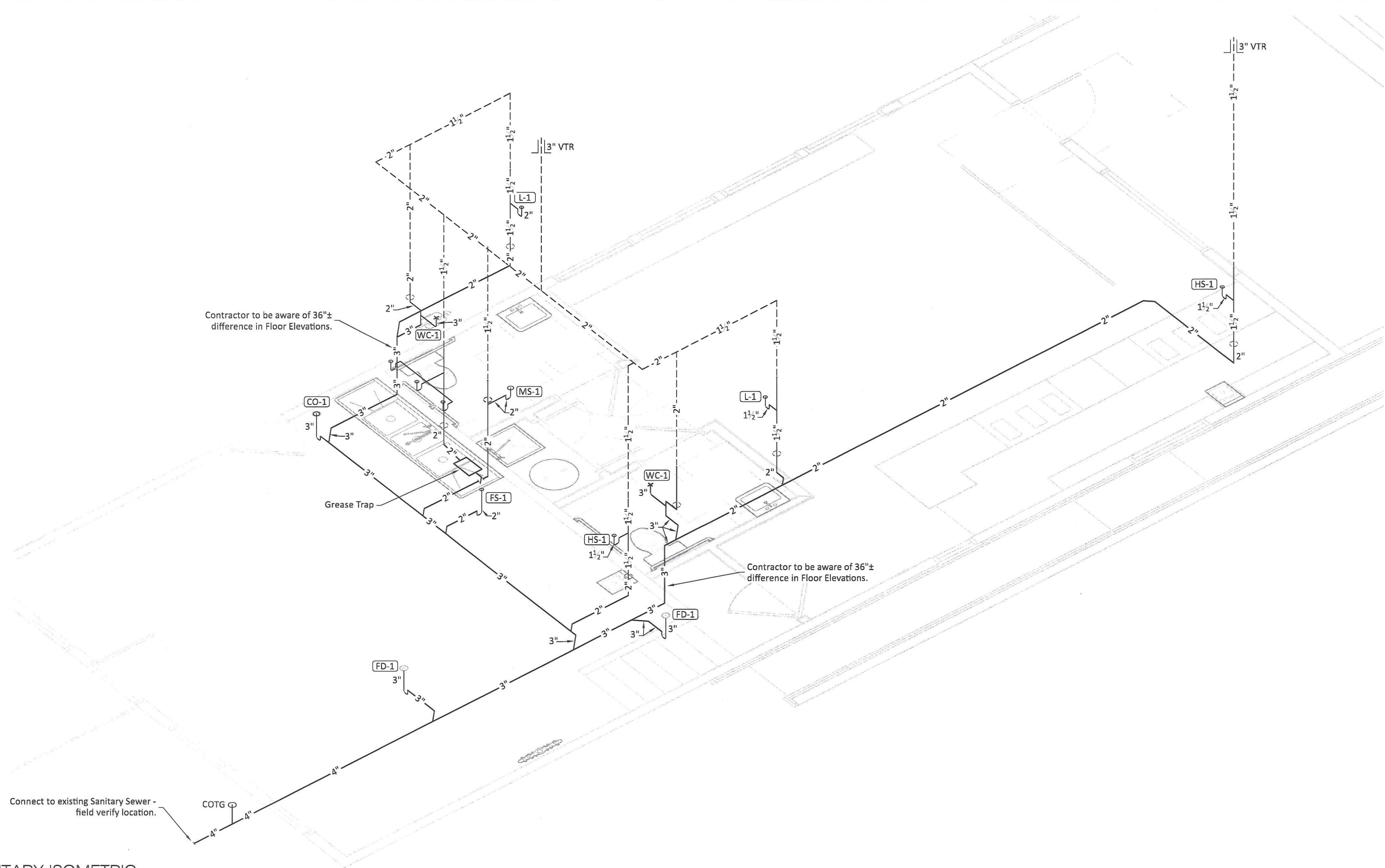


New Restaurant for  
Outlaw Attitude BBQ

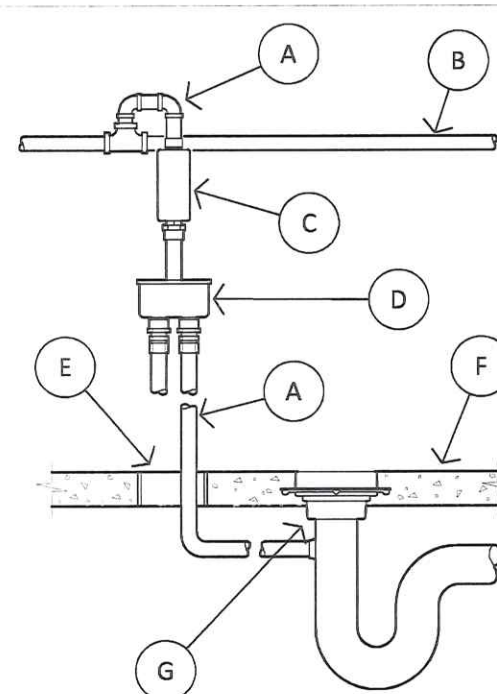


215 West Front St.,  
Napoleon, Ohio

VDS No.: 170827



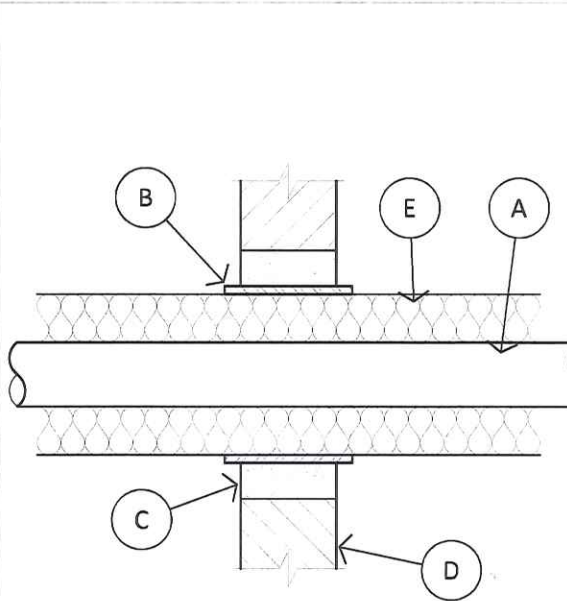
SANITARY ISOMETRIC  
SCALE: None



TRAP PRIMER DETAIL  
SCALE: None

KEYNOTES:

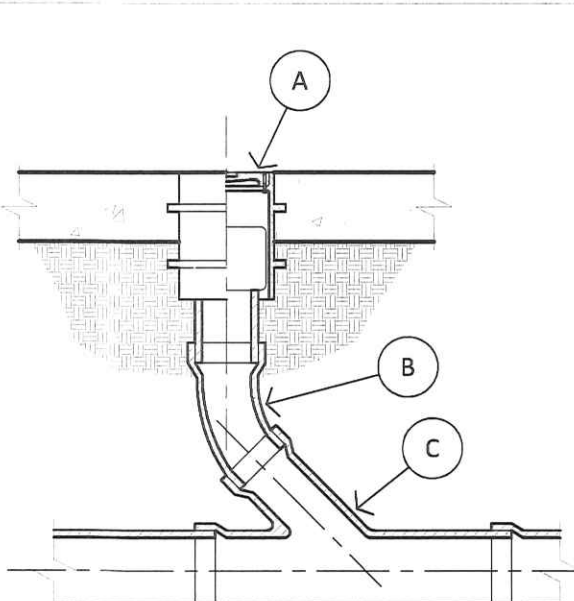
- Provide and install 1/2" Trap Primer supply per Manufacturer's Instructions, typical.
- Domestic water line.
- Provide and install Trap Primer Valve per Manufacturer's Instructions, typical.
- Provide and install Distribution unit per Manufacturer's Instructions, for up to five separate traps.
- Sleeve through Slab, typical.
- Floor Slab, typical.
- Floor Drain assembly, typical.



PIPE PENETRATION DETAIL  
SCALE: None

KEYNOTES:

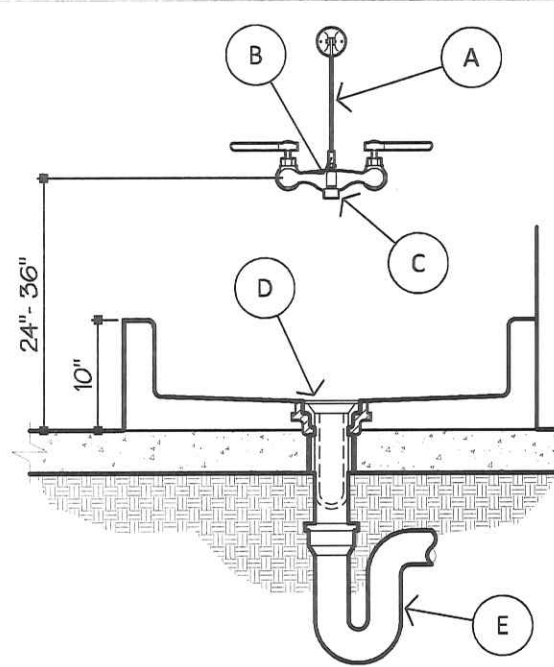
- Insulated Piping - see Mechanical Drawings for additional information, typical.
- Provide and install Pipe Sleeve per Manufacturer's Instructions, typical.
- Sleeve shall be grouted or plastered into Wall, typical.
- Wall assembly, typical.
- Pipe Insulation shall run through Sleeve and Wall assemblies, typical.



SANITARY CLEANOUT DETAIL  
SCALE: None

KEYNOTES:

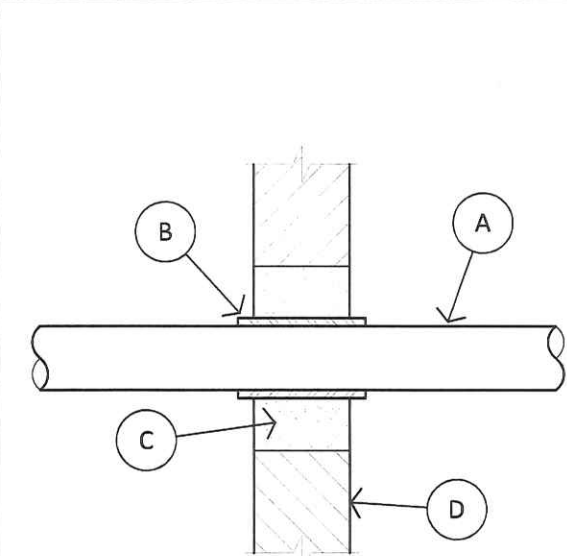
- Provide and install Round flanged Cleanout under Concrete to be standard weight, coated Cast Iron Solid Pipe with bell and spigot fittings with neoprene compression joints or hubless fittings with neoprene gaskets and stainless steel shield and clamps and approved ABS piping with ABS fittings. All Cast Iron Pipe shall bear the cast iron label of the Cast Iron Institute. Sewer piping not under the Building or Concrete may be Vitreous Clay Tile. PVC piping with the proper listing and schedule is permitted to be substitute for Cast Iron or Vitreous Clay.
- Provide and install 1/8 bend Soil Pipe per Manufacturer's Instructions.
- Provide and install Y Branch Soil Pipe per Manufacturer's Instructions.



FLOOR SERVICE SINK DETAIL  
SCALE: None

KEYNOTES:

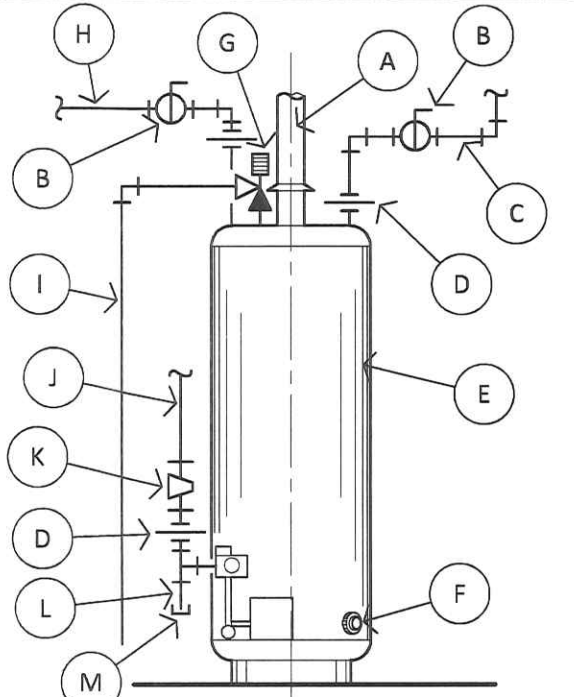
- Spout brace.
- Provide and install Spout per Manufacturer's Instructions with hose end and pailhook.
- Provide and install Service Faucet per Manufacturer's Instructions with vacuum breaker.
- Provide and install Drain per Manufacturer's Instructions.
- Provide and install 3"Ø Trap per Industry Standards.



PIPE PENETRATION DETAIL  
SCALE: None

KEYNOTES:

- Un-Insulated Piping - see Mechanical Drawings for additional information, typical.
- Provide and install Pipe Sleeve per Manufacturer's Instructions, typical.
- Sleeve shall be grouted or plastered into Wall, typical.
- Wall assembly, typical.



GAS WATER HEATER DETAIL  
SCALE: None

KEYNOTES:

- Metal Flue per Manufacturer's Specifications.
- Ball or Gate Valve.
- Domestic Cold Water (DCW) Inlet.
- Dielectric Union.
- Water Heater.
- Drain Valve with Hose End.
- Temperature - Pressure Relief Valve.
- Domestic Hot Water (DHW) Outlet.
- Relief pipe.
- Gas Supply Inlet.
- Shut-Off Cock.
- Dirt leg.
- Pipe cap.

15001 PLUMBING

- Soil, Waste and Vent Piping inside Building and under Concrete to be standard weight, coated Cast Iron Solid Pipe with bell and spigot fittings with neoprene compression joints or hubless fittings with neoprene gaskets and stainless steel shield and clamps and approved ABS piping with ABS fittings. All Cast Iron Pipe shall bear the cast iron label of the Cast Iron Institute. Sewer piping not under the Building or Concrete may be Vitreous Clay Tile. PVC piping with the proper listing and schedule is permitted to be substitute for Cast Iron or Vitreous Clay.
- Vent Piping and Drain Piping above floors, sizes 3" and larger shall be standard weight Cast Iron, bell and spigot, pipe and fittings with lead and oakum joints or approved ABS piping with ABS fittings. Vent Piping and Drain Piping 2 1/2" and smaller located 6" or more above Building floor shall be standard weight Galvanized Steel Pipe with Cast Iron semi-recessed drainage fittings or approved ABS piping.
- Water Piping shall be type L Copper with copper fittings. All exposed piping appurtenant to fixtures shall be chrome plated brass fittings, copper fittings. All exposed piping appurtenant to fixtures shall be chrome plated brass fittings. Protect underground pipe per 1.2 T.
- Gas Piping shall be Schedule 40 Black Steel Pipe with black malleable, banded 150 pound fittings or tube turn, or equal, welding fittings. Protect underground pipe per 4.0 T.
- Escutcheons shall be chrome plated brass with set screws.
- Flashing shall be 4 pound lead.
- Fixture stops shall be American Standard, Kohler, or equal.
- Unions shall be right and left couplings for fuel gas except that ground joint unions may be used at fixture connections.
- Cleanouts shall be Zurn, or Approved Equal.
- Water Valves for steel piping.

	Gate 2" & Less	Gate 2 1/2" & Over	Globe All	Check 2 1/2" & Less
Crane	438	461	7	37
Jenkins	370	326	106A	92A
Walworth	4	719-F	95	406
Kennedy	427	058	89	440

Furnish "T" handle wrench for underground valves.

- Gas Valves shall be square head Brass Cocks with check, Crane #254, or Equal. Furnish each valve with operation wrench, "T" handle wrench for underground lines.
- Pipe Hangers and Supports shall be ring type, with 3/8" hanger rods, UniStrut and "V" support. Spacing of hangers and supports shall not exceed 6'-0" for 1/2" pipe, 8'-0" for 3/4" and 1" pipe and 10'-0" for pipe 1 1/4" and larger, and same shall be provided around pipe at hanger clamps.
- Sleeves shall be standard weight pipe or 24 gauge galvanized iron. Greater in diameter by 1" than the pipe. Any insulation or pipe protection on either side of the wall shall be carried through the sleeve.
- Fixtures are American Standard, Kohler, or Approved Equal. One (1) Manufacturer shall be used throughout, unless noted otherwise on the Drawings. Water Heater shall be as indicated on Drawings and equipped with a combination temperature-pressure relief valve having a capacity not less than the input capacity of the heater.
- Pipe Insulation for all hot water piping shall be insulated with standard thick sectional pipe covering with integral fire retardant Jacket, per Title 24, 1" Insulation minimum R 4.0 min. up to 2 1/2", 1 1/2" @ 2 1/2" and larger.
- Pipe lines shall be constructed of full length sections of pipe as specified. No short sections shall be used except where length of runs require less than one full length of pipe. Short sections, where permitted, shall be fabricated from

dimensions taken at the site. Springing or forcing piping into place will not be permitted. Piping shall be installed in such a manner as to prevent any undue strain on the equipment. Joints shall be smooth and unobstructed inside, and cut pipe ends shall be thoroughly reamed to remove all burrs. Each length of pipe and each fitting shall be carefully inspected and all obstructions removed prior to fabrication. Screwed joints shall be made tight with tongs and wrenches. Any leaky connection shall be remade with new materials. The use of thread cement or caulking to make joints tight is absolutely prohibited. Air chambers shall be installed in a vertical position at the end of each run of water piping serving a fixture or group of fixtures. Water connections to all equipment shall be full size of the connection up to the fixture stop or shut-off. Exposed fixture stops, piping and/or tubing, supplies, waste piping and traps in finished rooms shall be heavily chrome plated.

17. Rough-in shall proceed as rapidly as the general construction will permit an shall be complete and tested before any plastering or other work is started. Work shall be fitted to the available space and shall be accurately roughed in. Each piece of equipment and run of piping shall be anchored to structural supports to resist a lateral force of 50% of the equipment and/or piping operating weight.

18. All Vent Pipes passing through Roof shall extend at least seven inches (7") above the Roof line and shall be flashed and counter-flashed with four (4) pound lead peaked in top of vent. Install cleanouts in all drainage lines, where shown or required by Code, and in addition at each change in direction and at intervals not to exceed one hundred (100) feet in horizontal runs. All cleanouts must be extended as specified. Lines must have a uniform continuous fall to the point of connection with existing sewer and in general, this should be one-quarter (1/4) inch per foot, unless otherwise shown on the Drawings. All Sewer mains and branches shall be set to grade by instrument. Vent Pipe below grade shall be Cast Iron Soil Pipe or appropriate PVC piping. All horizontal Vent lines shall pitch up to the vent stack at a minimum of 1/4" per foot. Vent Piping

- shall be graded for proper ventilation and to allow piping to free itself quickly of condensation of water. Vents shall be ganged wherever possible.
- Wall-hung fixtures shall be securely attached to a 3/4" thick by 6" wide Steel Plate which shall extend to at least one (1) stud beyond the first and last fixture mounting point. Plate shall be drilled and tapped at time of installation of fixture. Fixture hanger or arm shall be supported free of finished wall by means of jam nuts. For wood construction, studs shall be notched and steel plate set flush with the surface. Plates shall be securely bolted to each stud crossed by two (2) 1/2" Steel Bolts on 4" centers with 3/4" minimum 1 1/2" backup plates. For steel construction, plates shall be securely welded to each stud crossed by a continuous vertical fillet weld of size as stud thickness. Fixtures with back, specified with supporting arms, shall in addition to the above specified plates, have fixture hangers securely attached to wood backing.
  - Floor-type Water Closets shall be set on slotted Cast Iron floor flanges with impregnated gas gasket and shall be held in place with 3/8" solid brass bolts. Putty will not be permitted for this joint.
  - Piping supporting flush valves or Hose Bibbs shall be securely strapped to the Building Structure at each valve to prevent displacement through manual pressure applied to the valve.
  - Water and Drain Connections shall be provided for each piece of equipment requiring same as indicated on the Drawings. Gas Connections shall be provided for all gas fired heating equipment indicated on Drawings.