

GENERAL NOTES:

1. THE CONTRACTOR SHALL INDEMNIFY THE OWNER AGAINST ALL DAMAGES, LOSSES, AND EXPENSES, INCLUDING ATTORNEY'S FEES, ARISING FROM EVENTS ASSOCIATED WITH THE WORK PERFORMED UNDER THE CONTRACT FOR THIS PROJECT.
2. THE CONTRACTOR AND/OR SUB-CONTRACTORS SHALL WARRANT ALL WORK FOR A PERIOD OF ONE YEAR FOLLOWING THE COMPLETION OF THE PROJECT. THE WARRANTY SHALL COVER DEFECTS IN MATERIALS, EQUIPMENT, COMPONENTS, AND WORKMANSHIP SHALL BE CORRECTED AT NO FURTHER COST TO THE OWNER DURING THE ONE YEAR WARRANTY PERIOD.
3. AT THE OWNER'S OPTION, A WARRANTY INSPECTION SHALL BE CONDUCTED BY THE OWNER OR AN INDEPENDENT THIRD PARTY AT THE END OF THE WARRANTY PERIOD. FOR THE PURPOSE OF DETERMINING ANY WARRANTY WORK THAT MAY BE REQUIRED, THE CONTRACTOR SHALL BE PRESENT DURING THIS INSPECTION IF REQUESTED BY THE OWNER.
4. THE CONTRACTOR SHALL PAY FOR ALL REPORTS, LICENSES, FEES, AND THE LIKE THAT MAY BE REQUIRED BY THE VARIOUS AUTHORITIES HAVING JURISDICTION OVER THIS PROJECT BE THE CITY, COUNTY, STATE OR FEDERAL.
5. THE OWNER SHALL FILE A NOTICE OF CONTEMPERMENT PRIOR TO THE COMMENCEMENT OF THE PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND PROVIDE SURETIES OR LENT FOR ALL PAYMENT REQUESTS PRIOR TO DISBURSEMENT OF ANY FUNDS.
6. ANY AND ALL DISPUTES ARISING FROM EVENTS ASSOCIATED WITH THE PROJECT SHALL BE FIRST ATTEMPTED TO BE RESOLVED THROUGH BINDING ARBITRATION.
7. ALL WORK SHALL BE IN ACCORDANCE WITH APPLICABLE CODES AND LOCAL REGULATIONS INCLUDING APPLICABLE ENERGY EFFICIENCY STANDARDS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND PROVIDE SURETIES OR LENT FOR ALL PAYMENT REQUESTS PRIOR TO DISBURSEMENT OF ANY FUNDS.
8. ALL INSULATION SHALL BE LEFT EXPOSED AND ALL LABELS BY THE BUILDING OFFICIAL.
9. ALL WOOD IN CONTACT WITH CONCRETE OR MASONRY SHALL BE PRESERVE TREATED.

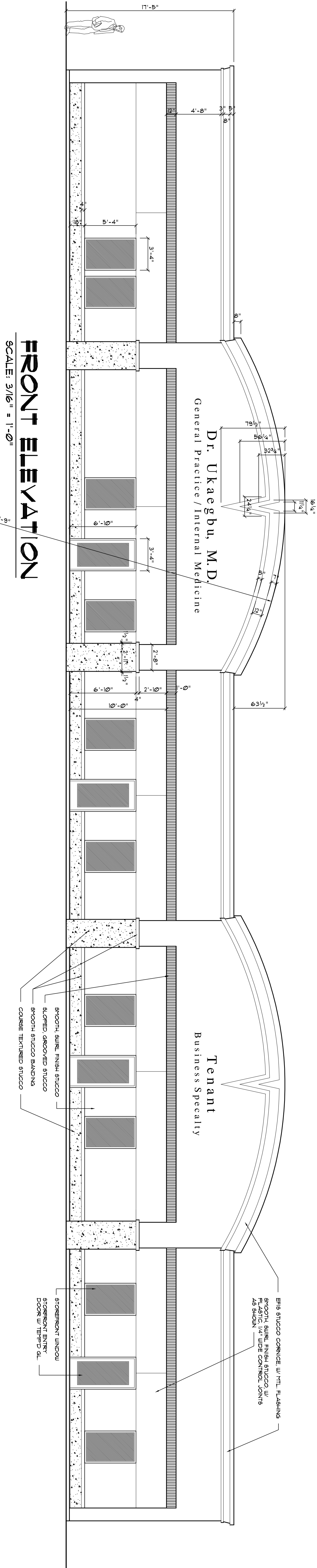
GENERAL HVAC NOTES:

1. SUB-CONTRACTORS PROVIDING HVAC INSTALLATION SHALL BE SUBJECT TO THE PROVISIONS OF NOTES 1 THRU 6, GENERAL NOTES 6/01A.
2. HVAC SUB-CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS, TOOLS, AND EQUIPMENT TO INSTALL A COMPLETE & OPERATING HVAC SYSTEM.
3. HVAC SYSTEM SHALL BE AS DETAILLED IN THE PLANS, (IF INCLUDED), OR SHALL BE AS DIRECTED BY THE OWNER IN COMPLIANCE WITH THE HVAC SUB-CONTRACTOR.
4. HVAC SUB-CONTRACTOR SHALL FURNISH SHOP DRAWINGS FOR DUCTWORK, CONDENSING UNIT & AIR HANDLER EXHAUST FANS AND AIR DEVICES.
5. IT IS THE HVAC SUB-CONTRACTOR'S RESPONSIBILITY TO COMPLY WITH NFPA-90A AND ALL APPLICABLE CODES.
6. FLEXIBLE DUCT SHALL BE FULLY ANNEALED, CORROGATED ALUMINUM, LISTED FOR USE IN RESIDENTIAL APPLICATIONS, AND SHALL BE LISTED SHEET METAL DUCT SHALL BE LINED WITH 1/4" FIBERGLASS INSULATION. ALL FIBERGLASS DUCT SHALL BE FOLDED, R2/260 DUCTWORK, ALL EXHAUST AND OUTSIDE AIR DUCT SHALL BE GALVANIZED SHEET METAL DUCTWORK, INSTALLED IN ACCORDANCE WITH THE HVAC SUB-CONTRACTOR AND SMOKE STANDARDS.
8. ALL AIR DEVICES SHALL BE OF ALUMINUM CONSTRUCTION FOR WALL AND CEILING APPLICATIONS AND STEEL CONSTRUCTION IN FLOOR APPLICATIONS. ACCEPTABLE MANUFACTURERS SHALL BE TITUS, APLIQUINE, MALCOLMART, HART & COOLE OR AS DIRECTED BY THE OWNER.
9. IF REQUIRED BY THE OWNER, THE HVAC SUB-CONTRACTOR SHALL SUPPLY A TEST AND BALANCE REPORT IN ACCORDANCE WITH AIR BALANCE COUNCIL STANDARDS, SIGN AND SEALED BY A REGISTERED ENGINEER.
10. HVAC SUB-CONTRACTOR SHALL SUPPLY ALL CONTRACTORS, RELAYS, AND THERMOSTATS. THE ELECTRICAL SUB-CONTRACTOR SHALL PROVIDE ALL SWITCHES, DISCONNECTS & CONTROL WIRING. THERMOSTATS SHALL BE APPROVED BY THE EQUIPMENT MANUFACTURER.
11. ALL DUCT SIZES INDICATED IN THE PLANS (IF INCLUDED) ARE NET INSIDE DIMENSIONS.
12. ALL EQUIPMENT SHALL BE FULLY WARRANTED FOR 1 YEAR AND THE COMPRESSORS SHALL BE WARRANTED 5 YEARS FROM DATE OF FINAL ACCEPTANCE BY THE OWNER.
13. ALL WORK IN THIS TRADE SHALL BE COORDINATED WITH ALL OTHER TRADES SO AS TO AVOID CONFLICTS OR HINDERANCE TO COMPLETION OF THE JOB.
14. CONDENSATE DRAIN PIPING SHALL BE INSULATED WITH 1/2" THICK AERMALEX INSULATION.
15. FILTERS SHALL BE DISPOSABLE TYPE AND HAVE INITIAL SHAPE WEIGHT RESISTANCE OF 10% AND A CLEAN PRESSURE DROP OF 0.15 INCHES WATER COLUMN. PROVIDE 2 SETS ONE DURING CONSTRUCTION AND ONE FOR USE AT FINAL ACCEPTANCE.
16. HVAC SUB-CONTRACTORS SHALL PROVIDE & INSTALL ALL NECESSARY OFFSETS, TRANSITIONS & BENDS REQUIRED TO INSTALL A COMPLETE SYSTEM AT NO ADDITIONAL COST TO THE OWNER.
17. IT IS THE RESPONSIBILITY OF THE HVAC SUB-CONTRACTOR TO COORDINATE LOCATION OF CEILING DIFFUSERS, GRILLES AND REGISTER ELEMENTS.
18. COORDINATE WITH THE ELECTRICAL PARTICIPARILY ELECTRICAL NOTE 18.01 TO ADOPTER SUITABLE TYPES OF BREAKERS, SWITCHES AND WORK.

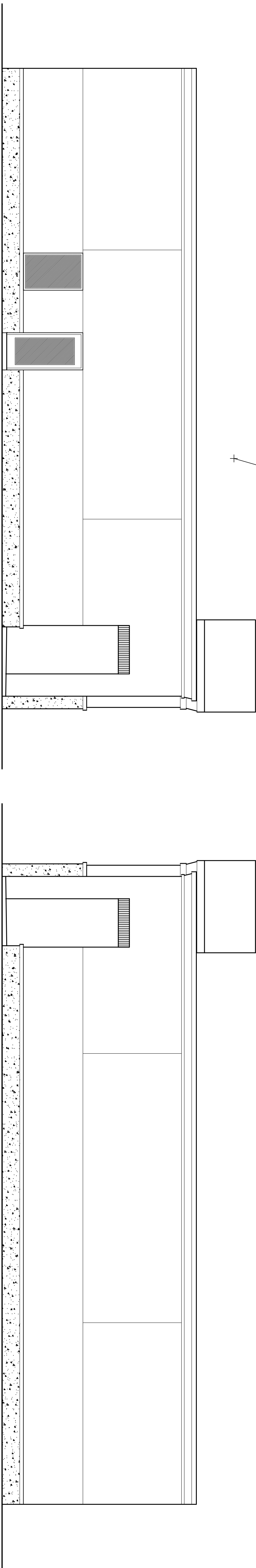
GENERAL MILLWORK NOTES:

1. MILLWORK SUB-CONTRACTOR PROVIDING CASEWORK, MILLWORK, OR THE LIKE FOR THIS PROJECT SHALL BE SUBJECT TO THE PROVISIONS OF NOTES 1 THRU 6 OF THE GENERAL NOTES, THIS SHEET.
2. SCOPE OF WORK INCLUDES, BUT IS NOT LIMITED TO THE FOLLOWING: FABRICATION AND DELIVERY OF MILLWORK SHOWN IN THE DRAWINGS, DRAWING 18.01, 18.02, 18.03, 18.04, 18.05, 18.06, 18.07, 18.08, 18.09, 18.10, 18.11, 18.12, 18.13, 18.14, 18.15, 18.16, 18.17, 18.18, 18.19, 18.20, 18.21, 18.22, 18.23, 18.24, 18.25, 18.26, 18.27, 18.28, 18.29, 18.30, 18.31, 18.32, 18.33, 18.34, 18.35, 18.36, 18.37, 18.38, 18.39, 18.40, 18.41, 18.42, 18.43, 18.44, 18.45, 18.46, 18.47, 18.48, 18.49, 18.50, 18.51, 18.52, 18.53, 18.54, 18.55, 18.56, 18.57, 18.58, 18.59, 18.60, 18.61, 18.62, 18.63, 18.64, 18.65, 18.66, 18.67, 18.68, 18.69, 18.70, 18.71, 18.72, 18.73, 18.74, 18.75, 18.76, 18.77, 18.78, 18.79, 18.80, 18.81, 18.82, 18.83, 18.84, 18.85, 18.86, 18.87, 18.88, 18.89, 18.90, 18.91, 18.92, 18.93, 18.94, 18.95, 18.96, 18.97, 18.98, 18.99, 19.00, 19.01, 19.02, 19.03, 19.04, 19.05, 19.06, 19.07, 19.08, 19.09, 19.10, 19.11, 19.12, 19.13, 19.14, 19.15, 19.16, 19.17, 19.18, 19.19, 19.20, 19.21, 19.22, 19.23, 19.24, 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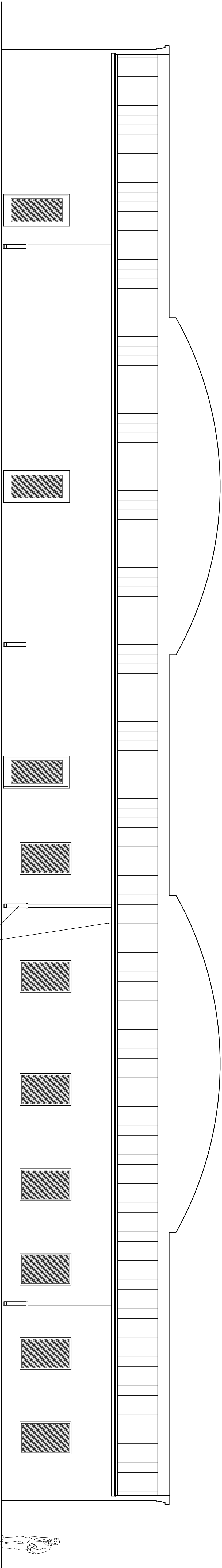




**FRONT ELEVATION**  
SCALE: 3/16" = 1'-0"



**RIGHT SIDE ELEVATION**  
SCALE: 3/16" = 1'-0"



**REAR ELEVATION**  
SCALE: 3/16" = 1'-0"



[illegible]

# POUNCE

SCALE: 3/16" = 1'-0"

**GRAPHIC SCALE**

**Floor Plan Notes:**

CABINETS, COUNTERS, SHELVES AND THE LITE SHOWN ON THIS PLAN SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE STANDARDS OF QUALITY AS OUTLINED IN THE NOTES TO THE SPECIFICATIONS. ALL MATERIALS AND FINISHES TO BE SUCH FURNISHES, HARDWARE AND FINISHES AS DIRECTED BY THE OWNER. THE PLAN VIEWS INDICATED ARE FOR GENERAL LOCATION AND EXTENT OF THE WORK. UNLESS DETAILED ALL OTHER PHYSICAL CHARACTERISTICS SHALL BE AS DIRECTED BY THE OWNER.

NOTE: PROVIDE 3/16" BACKING AT ALL OVERHEAD CABINET LOCATIONS, FLUSH WITH FACE OF FRAMING - TOP OF BACKING TO BE 1" OFF AFF.

PROVIDE 2X6 BACKING AT ALL OVERHEAD CABINET LOCATIONS, FLUSH WITH FACE OF FRAMING - TOP OF BACKING TO BE 1'-0" A.F.F.

ALL OTHER INFORMATION  
DIRECTED BY THE OWNER

09	FILE #HLLVNG0701EN AS PROVIDED BY THE OWNER
10	PROVIDE KEY LOCKING DOOR HARDWARE
11	H/C TOILET LAVATORY AND GRIP RAIL PER ADA STDS
12	SPECIFY RANGER EQUIPMENT.
13	5/8 SINK W/ PLUMBING ACCESSORIES
14	FIBERGLASS SHOWER UNIT W/ PLUMBING ACCESSORIES
15	GENERATOR BY OWNER

## GENERAL INTERIOR FINISH SCHEDULE

## OFFICE FLOOR AREA:

OFFICE FLOOR AREA:  
CARPET AND PAD, PATTERN & COLOR AS PER THE OWNER OR  
LAMINATE STRIP WOOD - SEE QUINER FOR CHANGES

## R/R FLOOR AREA:

RR FLOOR AREA: SHEET VINYL OR THINSET TILE, PATTERN & COLOR AS SELECTED BY THE OWNER

PASSAGEWAY FLOOR AREA:

PASSAGEWAY FLOOR AREA: BY THE OWNER

**ROOM FLOOR AREA:**

ROOM FLOOR AREA: BY THE OWNER - SEE OWNER FOR CHANGES

THE UNIVERSITY OF CHICAGO

TABLE 6  
FUEL OILS BURNED AND BURNED 2 COATS 1 ATTEMPTED BURN

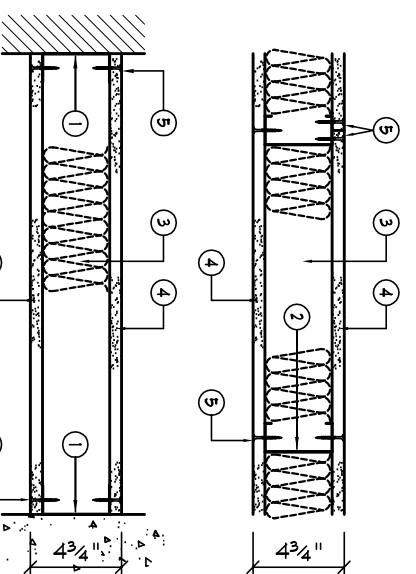
MAIN CELLING:  
A5 PER REFLECTED CELLING PLAN

APPLIED FINISHES:  
APPLIED FINISHED TO G/LB. I.e: SPRAY, KNOCK-DOWN, SKIP-TROWEL

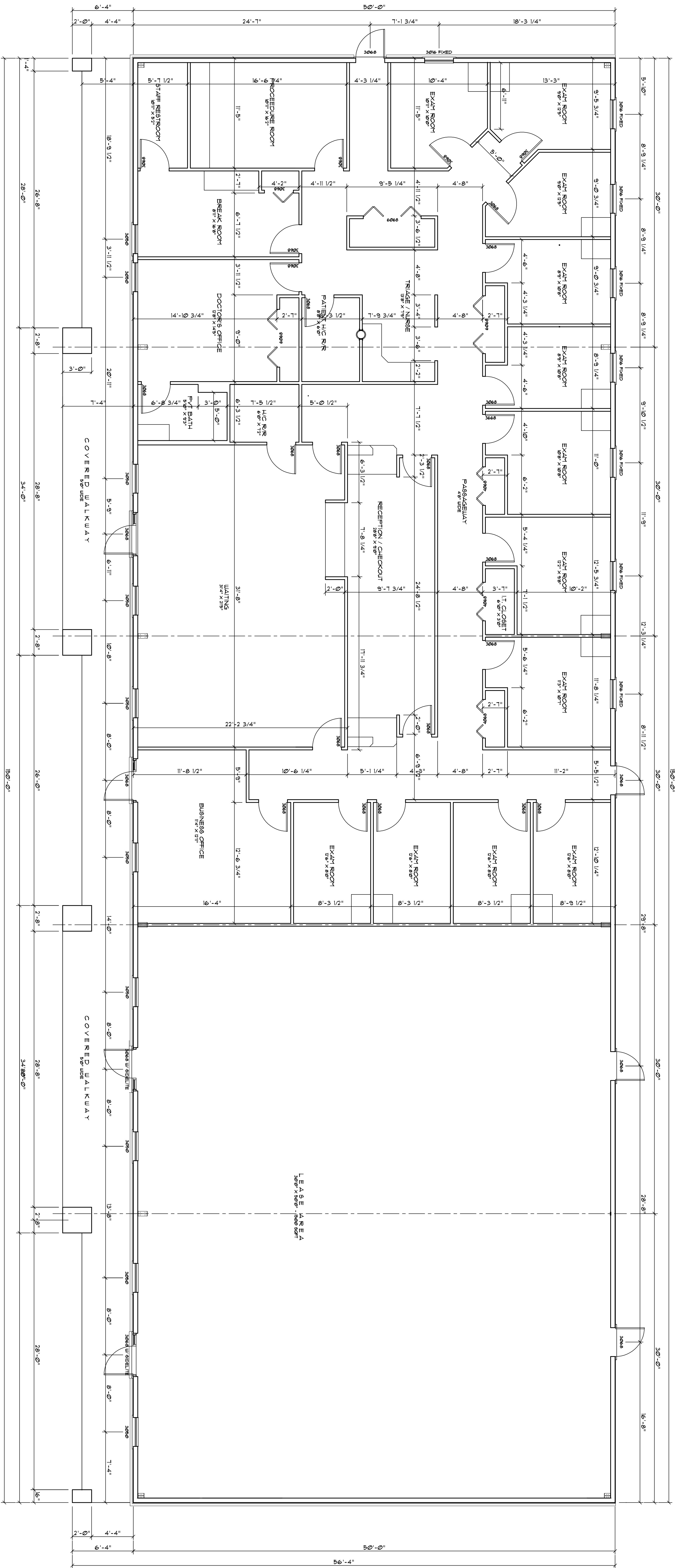
**CABINETS:**  
AS SELECTED BY THE OWNER MINIMUM API GRADE: "CUSTOM" - A  
COST APPROX \$200,000.00. SEE ALSO OTHER TENDERS FOR OTHER MATERIALS.

Design No. U465

Nonbearing Wall Rating-1 Hr.

[illegible]





## DIMENSION PLAN

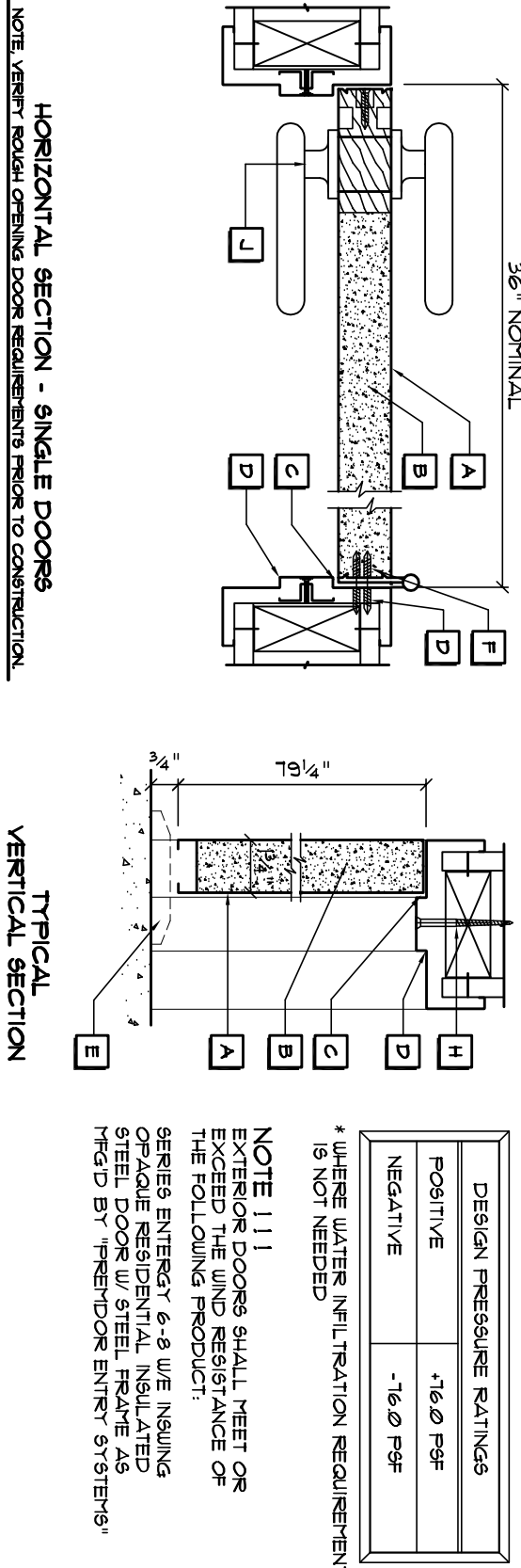
SCALE: 3/16" = 1'-0"

HEIGHT DIMENSIONS:  
REFER TO SHEET A1 FOR VERTICAL DIMENSIONS

GRAPHIC SCALE

## Interior Door Details

SCALE: NONE



DESIGN PRESSURE RATINGS	
POSITIVE	16.0 PSF
NEGATIVE	16.0 PSF
* WHERE WATER INFILTRATION REQUIREMENT IS NOT NEEDED	

- Door Notes**
- A FIBERGLASS VENEER SKIN (OR EQUAL)
  - B SOLID CORE
  - C COMPRESSION BATTERS
  - D STEEL HEAD / JAMB - PAINTED 1 COATS
  - E ALUMINUM THRESHOLD w/ WEATHER SEAL
  - F #6-14 X 1/2" PH18 (4) SCREWS PER HINGE INTO DOOR
  - G #6-14 X 1/2" PH18 (4) SCREWS PER HINGE INTO JAMB
  - H #6 X 7" FULLS (1) SCREWS THROUGH HEAD INTO SILLER
  - I DOOR HARDWARE AS SELECTED BY OWNER
  - J

- NOTE**  
ALL WOOD STAIN GRADE SWING DOORS SHALL BE RED OAK (VENEER NOTED ON)
- NOTE**  
ALL WOOD STAIN GRADE BI-DOORS SHALL BE CLEAR PINE - NO FINGER JOINTS
- NOTE**  
ALL PAINT GRADE VERTICAL JAMBS SHALL BE PAINTED IN FACTORY FINISH W/ DENTS OR BLENDING
- NOTE**  
ALL PAINT GRADE VERTICAL DOORS SHALL BE PER TYPE STYLES, W/ FACTORY FINISH W/ DENTS OR BLENDING - TYPICAL TYPE "E" THROUGH TYPE "I"
- NOTE**  
ALL WOOD DOORS MAY BE FACTORY FINISHED WITH STAIN AND VARNISH
- NOTE**  
ALL PAINT GRADE DOORS AND FRAMES SHALL BE FINISHED W/ 2 COATS
- NOTE**  
FACTORY FINISH W/ DENTS OR BLENDING

Celebrating  
49 Years of Service

□ □ □ □

1972 - 2021

N.P. Geisler, Architect  
AR0007005

DATE: 02 SEP 2021  
COMA: 2K2110  
SHEET: P.1  
1 OF 2

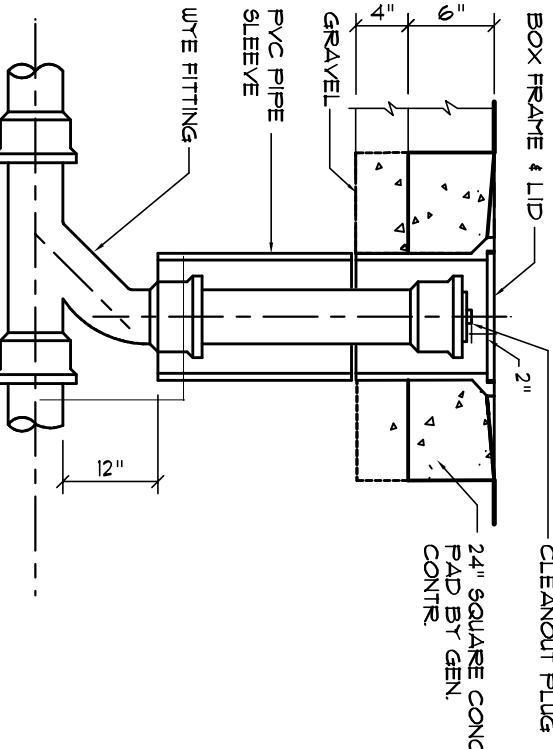
SCALE: 3/16" = 1'-0"

PLUMBING CONTRACTOR SHALL PREPARE "A5-BULL T" SHOP DRAWINGS INDICATING ALL PLUMBING WORK INCLUDING ALL PLUMBING LINE LOCATIONS AND RISER DIAGRAM - CONTR SHALL PROVIDE 1 COPY OF A5-BULL T DUGS TO OWNER AND 1 COPY TO THE PERMIT ISSUING AUTHORITY.

1 1/2"	_____	PIPING/PIPE 5/16"	URIN. - 4 RU	URINAL
1 1/2"	_____	PIPING/PIPE 5/16"	TUB - 2 RU	BATH TUB
2"	_____	PIPING/PIPE 5/16"	SHOW. - 2 RU	SHOWER
3"	_____	PIPING/PIPE 5/16"	SINK - 2 RU	SINGLE BASIN SINK
4"	_____	PIPING 5/16" x 0.075" LF - 180' RU	DBL SINK - 2 RU	DOUBLE BASIN SINK
5"	_____	PIPING 5/16" x 0.075" LF - 350' RU	TRISINK - 3 RU	TRIPLE BASIN SINK
6"	_____	PIPING 5/16" x 0.075" LF - 100' RU	BAR - 1 RU	BAR SINK
1 1/2" LV	_____	1 1/2" LOOP VENT	DWASH - 2 RU	DISHWASHER
2" LV	_____	2" LOOP VENT	ELIC - 1 RU	ELECTRIC WATER COOLER
2" VV	_____	2" VENT	TRAY - 2 RU	LAUNDRY TRAY (SINK)
2" VTR	_____	2" VENT THRU ROOF	WASH. - 3 RU	WASHING MACHINE
3" VTR	_____	3" VENT THRU ROOF	CUL - 4 RU	CAN WASH
COTD	_____	CLEANOUT TO GRADE	2" FLD. - 3 RU	2" FLOOR DRAIN
CO.	_____	CLEANOUT	3" FLD. - 6 RU	3" FLOOR DRAIN
WC.	_____	WALL CLEANOUT	3" FLO. - 6 RU	3" FLOOR SINK
WC.	_____	FLOOR CLEANOUT	MOP - 3 RU	MOP SINK
LAV. - 1 RU	_____	LAVATORY	ELH	ELECTRIC WATER HEATER
W.C. - 4 RU	_____	WATER CLOSET (TOILET)	GWH	GAS WATER HEATER
BID. - 2 RU	_____	BIDET	H.B.	HOT WATER BIBB
			TO SAN. DISP.	TO SANITARY DISPOSAL

[illegible]

NO. 10 BEAULT

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**NOT TO SCALE**





PLUMBING SPECIFICATIONS

- A. It is the intent of these specifications to define the work and material installed by a Plumbing Contractor. However, it is not intended to define a subcontract between the Owner and Contractor. The Contractor shall be responsible for the selection of the General Contractor, and any questions regarding scope of work shall be directed to the General Contractor.
- B. Work shall include all labor, materials, fixtures, equipment, tools and services necessary for the installation of the plumbing system, including but not limited to the following:
- C. Drawings and Specifications shall be understood to cover, according to their intent and meaning, all work and materials to be furnished and installed in accordance with the drawings and specifications. The Contractor shall be responsible for the complete and proper operation of any system shall be provided by contractor or subcontractor for E. Before submitting a bid, the Plumbing Contractor is to coordinate with the utility company to ascertain, in detail, the division of work and the extent of performance to be provided by the Contractor.
- F. All work shall be performed or installed in strict accordance with Standard Plumbing Code and applicable rules, regulations and codes of local, state and federal governments having jurisdiction over the work.
- G. Fees for permits, inspections, patent use, royalties, etc. shall be paid by the contractor.
- H. Furnish all equipment and personnel and conduct all tests required to secure the approval of the installation.
- I. Any repairs or changes required to secure the approval of the installation shall be done at no additional expense to the Owner.
- J. All work shall be installed in accordance with the appropriate codes and satisfy the local authority having jurisdiction.
- K. Upon completion of each part of the mechanical system, the contractor shall demonstrate to the Engineer that each item on that system is installed with proper covers, gaskets, controls, etc. and that all are in proper working order.
- L. Actual conditions are to be put on the drawings in red on a daily basis so the drawings will continuously show locations and routings of piping, ducts, gages, equipment, valves, and any equipment specified on the drawings or in these specifications.
- M. All product shall be current model for which replacement parts are available.
- N. Acceptable manufacturers are listed; additional manufacturers may require approval for their product up to 10 days in advance of bid. Engineer may require supplemental drawings and product data shall be submitted by the subcontractor, and all.
- O. Shop drawings shall be submitted to the Engineer for review and approval.
- P. The Engineer may require one additional and one replacement subcontract.
- Q. Shop drawings shall be submitted to the Engineer for review and approval.
- R. Job conditions shall be inspected to determine prior to bidding in the following manner:
1. Site visit to determine:
- a. How and where materials will be delivered and stored.
- b. Special problems encountered during construction.
- c. Examine all Contract Drawings and Specifications to determine:
- d. How construction or work will affect the work of this trades.
- e. Failure to determine existing conditions or nature of construction will not be considered as installation.
- f. Contract Drawings show the arrangements and sizes of principal apparatus and devices to be provided under the Contract and connection thereto. These shall be determined by the Contractor.
- g. Dimensions of work as indicated on Plans are not guaranteed to be as-built dimensions.
- h. No measurements shall be taken from Drawings and used as definite dimensions.
- i. Layout of equipment, as shown on the plans, shall be checked and exact location determined by dimension if equipment approved by the Architect.
- j. Consult the Drawings for all dimensions, locations of partitions, sizes of structural members, etc.
- k. Do not make final layouts until shop or equipment drawings are approved and job conditions verified.
- l. Excavation and Backfill:
1. Contractor shall coordinate with General Contractor to determine the extent of his work regarding excavation and backfill.
2. Rough-in:
- a. Contractor shall rough-in for all equipment, fixtures, etc. in building.
- b. Determine in advance the location and size of all openings and clearances necessary for proper installation of all work and have openings and clearances made.
- c. Install provisions for rigging and supports of mechanical work and equipment work as general construction progresses.
- d. Rough-in openings in masonry or stud walls shall be cut, not broken or chiseled out.
- e. All openings in masonry or stud walls shall be finished with concrete or masonry with studs or masonry walls shall be finished with concrete or masonry.
- f. Subject to high water conditions shall be installed water-tight.
3. Coordination:
- a. Coordination coordinated between all Contractor, Subcontractors, installers, suppliers, trades, etc. to:
- b. Determine the nature and extent of the work of others.
- c. Maintain minimum headroom and clearances.
- d. Any interference which develops or is foreseen and cannot be resolved by the affected trades, etc. shall be handled as follows:
- e. Additional compensation will be allowed for any relocation, etc.
- f. Continue work only on other portions of the work which are not in conflict with the Architect immediately.
- g. Architect's decision shall be final as to any relocation, resulting removal, etc.
- h. No additional compensation will be allowed for removal, relocation, repairs or alterations.
- i. Clear away all debris, surplus materials, etc., resulting from work on operations, leaving job and equipment in clean first-class condition.
- j. Where factory finish is provided on equipment, all matted or damaged surfaces shall be replaced with new material.
- k. All plumbing fixtures shall be thoroughly cleaned of all plaster, stickers, rust, stain, and other foreign matter, and be left ready for use.
- l. Surfaces of all floor drains, cleanouts and other equipment shall be cleaned and left in first-class condition.

CHARONATION OF DOMESTIC WATER LINES

- A. Dissection of all water piping which shall carry potable water or any other piping connected thereto which is not separated by a backflow preventer.
- B. Dissection shall be done either in the form of hydrocarbon solution or in the form of C. After completion of all tests, replacement, and repairs, all water supply systems shall be thoroughly flushed with water to remove sediment and/or debris.
- D. Begin dissection only after flushing system.
- E. Dissection shall be done in a manner which will not damage the piping or equipment and allowed to stand for twenty-four hours or as required by local authorities whichever is greater.
- F. During operation all valves and equipment shall be operated to insure that chlorine is distributed throughout the system.
- G. Following dissection all treated water shall be flushed from the system through its extremities until the quality of water delivered is comparable with the quality of the public water supply and satisfactory to the public health authority having jurisdiction.
- H. Dissection shall be done in a manner which will not damage the piping or equipment and allowed to stand for twenty-four hours or as required by local authorities whichever is greater.
- I. Samples shall be taken only from taps located and installed in such a manner that they will not contaminate any contamination, hydrants or through unregulated hoses.
- J. If dissection and flushing has been repeated three times and water quality cannot be maintained, the Architect shall have the authority to require discontinuity of the piping as he deems necessary to determine the cause of contamination.
- K. Dissection and flushing shall be repeated upon reassembly of the piping.
- L. Dissection, flushing and testing shall be repeated upon reassembly of the piping.

PIPE AND FITTINGS

- A. Refer to "PIPEING SCHEDULE" on drawings.
- B. Pipe hangers in direct contact with copper shall be copper or lead plated or of an approved dielectric material.
- C. Inspection for Underground Piping:
1. Complete excavation to determine if piping is in place.
2. Excavation which would interfere with drainage system installation.
3. Begin work only when conditions are satisfactory.
4. Examine areas to receive piping for:
- a. Obstructions.
- b. Work to be done prior to other construction.
5. Begin work only when conditions are corrected satisfactorily.
- E. Installation of Underground Piping
1. Excavation:
- a. Excavate trenches of sufficient width for proper installation of pipes, conduits, and valves.
- b. Sheet and brace trenches as necessary to protect workmen and adjacent structures.
- c. Comply with current OSHA standards.
2. Final grading of trench:
- a. Perform final grading of trench bottom by hand tools carry machine excavation only to such depth that soil bearing for pipes will not be exceeded.
- b. Grade bottom of trenches evenly to insure uniform bearing for all piping.
- c. Cut holes as necessary for joint taking.
- d. Keep trenches free from water until construction is in progress.
- e. Machine excavation shall be held a sufficient distance from foundations and footings.
- f. Provide and maintain barricades and temporary bridges around excavations and footings.
- g. Provide and maintain adequate safety lighting in same trench if they are 18 inches or more above the existing line.
- h. Trenches shall be backfilled with compacted material.
- i. Minimum trench depth for water piping shall be 24 inches.
- j. Backfill same type material specified for the inside building to 8 feet outside building.
- k. Backfill for all sewer lines shall be placed in accordance with manufacturer's printed instructions.
- l. Backfill trenches only after piping has been installed.
- m. The backfill below paved areas and walls shall be brought to within 6 inches of finished grade and the remaining six inches shall be backfilled with clean topsoil.
- n. The backfill below sodded or seeded areas shall be brought to within 6 inches of finished grade the remaining six inches shall be backfilled with a. Provide and place any additional fill material from off the site as may be required for backfill.
- F. Installation of Above-Ground Piping
1. Support piping as specified in Section B-994 for permanent installation.
2. Piping to prevent injury to personnel or damage to equipment or materials.
3. Run exposed piping true and level.
4. Run vertical exposed piping plumb.
5. Run exposed piping with as few elbows and bends as possible.
6. Install concealed pipes close to building's structure to keep running to a minimum.
7. Slope water piping 1 inch in 40 feet and arrange to drain at low points.
8. Concealed systems, equip low points with 3/4 inch drain valves and hose nipples.
- COPPER PIPE
1. Domestic water supply above grade or slab
2. Joints
3. Joints
4. Solder using lead-free solder and non-corrosive flux
5. Solder fittings prohibited.
6. Water Supply Below Grade or Under Slab (Larger than 3/4")
1. Type K hard drawn copper tubing
2. Solder using silver solder or "Sil-Fos"
3. Fittings
4. Wrought copper or cast brass
5. Fittings
6. Plastic pipe and fittings
7. Plastic pipe and fittings
8. Vent piping (above grade)
1. Piping shall be PVC
2. Polyvinyl Chloride (PVC) - ASTM D-1784-60T
3. Type I grade 1
4. Pipes shall bear NSF seal and ASTM designation
5. Joints
6. Soldered joints using adhesive per manufacturer's recommendations
7. Fittings
8. PVC - ASTM D-1665-63
9. ABS - ASTM D-1665-63
10. Polypropylene (Below Grade)
1. Schedule 80
2. Type I grade 1
3. Pipes shall bear NSF seal and ASTM designation
4. Bonded joints using adhesive per manufacturer's recommendations
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