

		MBING FIXTURE SCHEDULE				
TAG	FIXTURE	Н	С	w	v	DESCRIPTION
S-1	SINGLE COMPARTMENT SINK UNDERMOUNT, ACCESSIBLE	1/2"	1/2"	2"	2"	KOHLER #K-5479-5U, ENAMELED CAST IRON 5-1/4" DEEP UNDER-MOUNT SIN DRAIN OPENING TO BE IN THE CENTER REAR LOCATION. KOHLER MAZZ #K-R CHROME FINISH, STRAINER AND P-TRAP. ADA INSULATION PACKAGE.

NOTES:

1. ALL FIXTURES SHALL MEET LOW WATER CONSUMPTION REQUIREMENTS.

2. PROVIDE STOPS AT ALL FIXTURES.

3. ACCESSIBLE FIXTURES SHALL BE MOUNTED AND INSTALLED PER TAS

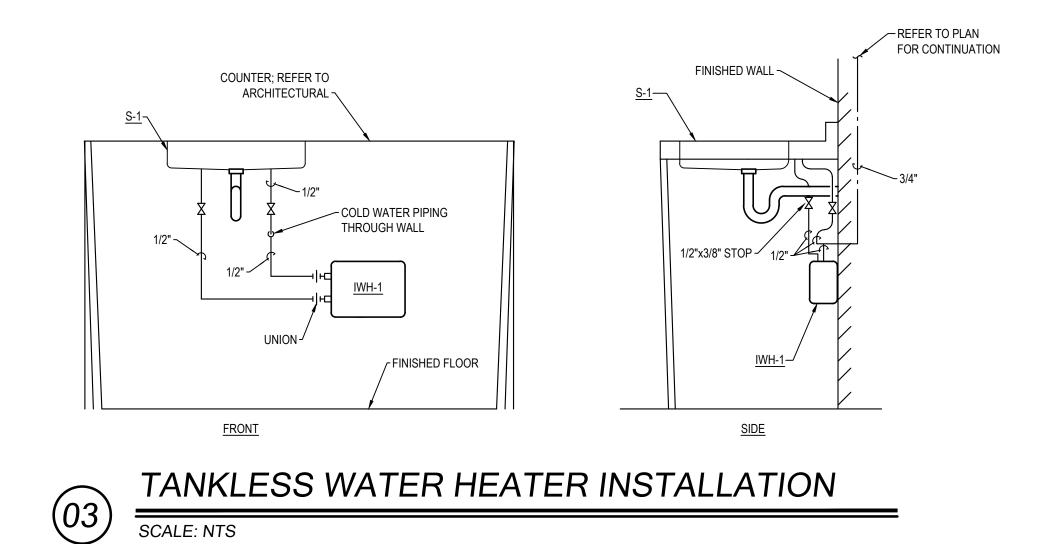
PROVIDE TRUE-BRO "LAV-GUARD" INSULATION KIT FOR EXPOSED PIPING AT ALL ACCESSIBLE SINKS AND LAVS.

V			HEATER	WAIERI	1253 I	IAN	
U	MANUFACTURER	<i>I</i> IP. RISE, °F	WATER TEN	VOLTS / PHASE	INPUT (kW)	ROOM LOCATION	TAG
TYPE	& MODEL NUMBER	1.5 GPM	1.0 GPM				i/ O
GA	CHRONOMITE M-40/208-MM	38	57	208/1	8.32	BREAK ROOM	IWH-1
КV							
VC							IOTES:

THERMOSTATIC MIXING VALVE

MARK	LOCATION	DISCHARGE TEMPERATURE (°F)	FLOW RATE (GPM)	PRESSURE DROP (PSI)	MANUFACTURER & MODEL NUMBER
TMV-1	103A-STORAGE	110.0	3.5	5	LEONARD #270-LF

WATER HEATER					
UNIT NUMBER					
TYPE					
GALLONS					
KW (SINGLE	ELEMENT)				
VOLTS / PHA	SE				
AMPS					
RECOVERY	@ 100° RISE				
MANUFACTURER					
MODEL NUM	/BER				
REMARKS					
<u>NOTES:</u>					
1.	PROVIDE SHUTOFF COLD WATER LINE.				
2.	PROVIDE EXPANSIOI AMTROL ST-5.				



SCALE: NTS

1. THE WORK COVERED UNDER THIS SECTION CONSISTS OF FURNISHING ALL LABOR, EQUIPMENT, MATERIALS AND PERFORMING ALL OPERATIONS IN CONNECTION WITH A COMPLETE, HYDRAULICALLY DESIGNED, WET AUTOMATIC FIRE SPRINKLER SYSTEM AS SPECIFIED, FOR THE ENTIRE PROJECT. THE WORK SHALL INCLUDE, BUT NOT BE LIMITED TO THE

A. COMPLETE DESIGN AND WORKING DRAWINGS MEETING APPLICABLE REQUIREMENTS.

2. THE FIRE PROTECTION SYSTEM SHALL MEET ALL APPLICABLE REQUIREMENTS OF THE CITY FIRE DEPARTMENT. THE SYSTEM SHALL COMPLY WITH ALL APPLICABLE CITY, STATE, AND NATIONAL CODES AND ORDINANCES, AND THE CODES. ORDINANCES AND REGULATIONS OF ALL OTHER RULING AUTHORITIES HAVING JURISDICTION, INCLUDING, BUT NOT

NFPA 13, INSTALLATION OF SPRINKLER SYSTEMS

3. CONTRACTOR SHALL ARRANGE SPRINKLER HEADS REFERENCED TO ROOM CENTERLINES AND AXES TO ESTABLISH A PATTERN COMPLIMENTARY TO THE FINISHED CEILING. COORDINATE EXACT HEAD LOCATION AND PIPE ROUTING WITH THE

4. SPRINKLER PIPING SHALL BE CONCEALED TO THE EXTENT POSSIBLE IN ALL BUT STRICTLY MECHANICAL UTILITY AREAS. ALL LAYOUTS OF SPRINKLER PIPING SHALL BE REVIEWED BY AND COORDINATED WITH THE ARCHITECT. FINAL APPROVAL OF PIPING LAYOUT, HEAD PLACEMENT, ETC. SHALL BE BY ARCHITECT. ALL EXPOSED PIPING AND FITTINGS SHALL BE PAINTED TO MATCH ADJACENT WALL OR CEILING SURFACE AS DIRECTED BY THE ARCHITECT.

5. SPRINKLER HEADS SHALL BE SEMI-RECESSED TYPE, CHROME FINISH IN AREAS WITH FINISHED CEILINGS WHERE PIPING CAN BE CONCEALED. SPRINKLER HEADS IN EXPOSED AREAS SHALL BE STANDARD CHROME FINISH, SIDE WALL, PENDANT

6. ALL THREADED PIPING SHALL BE SCHEDULE 40 BLACK STEEL. THE MINIMUM THIN WALL PIPING ALLOWED SHALL BE SCHEDULE 40 FOR PIPE UP TO 2" AND SCHEDULE 10 FOR PIPE OVER 2". ALL THIN WALL PIPING SHALL BE JOINED USING ROLLED GROOVES WITH COUPLINGS. IF ALLOWED BY LOCAL CODES, OTHER TYPES OF PIPING MAY BE USED, BUT ONLY THOSE LISTED FOR FIRE SPRINKLER SERVICE.

7. FURNISH AND INSTALL ALL VALVES AND ACCESSORIES REQUIRED BY AUTHORITY HAVING JURISDICTION.

8. SYSTEM TEST AND DRAIN VALVES SHALL BE COORDINATED WITH THE OWNER BY SPECIFICALLY CALLING TO THE OWNER'S ATTENTION THE LOCATION OF THESE SYSTEMS.

9. SYSTEM SHALL BE THOROUGHLY CLEANED BY FLUSHING OUT WITH WATER UNTIL IT IS FREE FROM SAND, OIL, OR OTHER FOREIGN MATTER, PRIOR TO THE INSTALLATION OF HEADS AND ORIFICES.

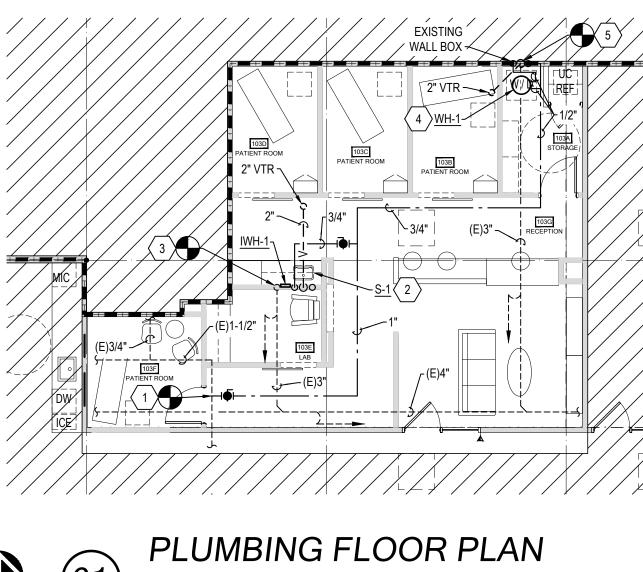
DRAWINGS AND SECURE THE APPROVAL OF THE OWNER AND ARCHITECT. ON APPROVAL OF THE OWNER AND ARCHITECT, THE CONTRACTOR SHALL PREPARE DETAILED WORKING DRAWINGS FOR THE SYSTEM AND SECURE THE APPROVALS OF THE LOCAL FIRE MARSHAL, THE OWNER'S INSURANCE CARRIER, AND ANY OTHER APPROVALS REQUIRED. A COPY OF THE APPROVAL LETTERS SHALL BE DELIVERED TO THE ARCHITECT PRIOR TO COMMENCING WORK.

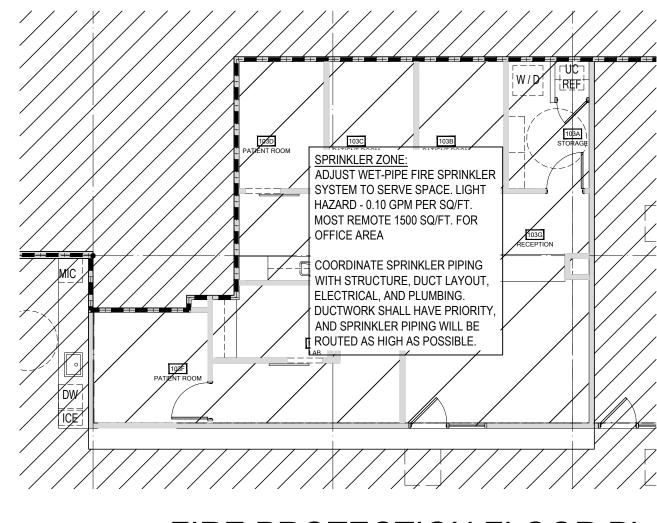
11. UPON COMPLETION OF THE WORK, THE CONTRACTOR SHALL PREPARE A LETTER OF GUARANTEE, WHICH SHALL GUARANTEE THE WORK AGAINST DEFECTS IN MATERIALS AND INSTALLATION AS OUTLINED UNDER THE GENERAL CONDITIONS. SECURE THE APPROVAL OR SEAL OF THE STATE RATING BUREAU AND PROVIDE THIS DOCUMENT TO THE

12. THE FIRE PROTECTION PIPING SYSTEM SHALL BE HYDRAULICALLY CALCULATED BASED UPON 90 PERCENT RESIDUAL PRESSURE AVAILABLE PER A CONTRACTOR-PROVIDED FLOW TEST AT SITE. THE BUILDING IS LIGHT HAZARD AND THE HYDRAULIC CALCULATIONS SHALL BE BASED UPON 0.10 GPM/SQFT MOST REMOTE 1,500 SQ.FT. USING NFPA 13,

13. THE ARCHITECT SHALL HAVE THE FINAL AUTHORITY OVER ROUTING OF SPRINKLER RISER PIPING, SPRINKLER HEAD LOCATIONS, ETC. THE DESIGN OF THE AUTOMATIC FIRE SPRINKLER SYSTEM SHALL BE CAREFULLY COORDINATED WITH THE ARCHITECT PRIOR TO SUBMISSION OF SHOP DRAWINGS AND SYSTEM INSTALLATION.

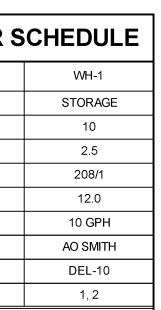
NK WITH WHITE FINISH AND THREEE OVERSIZED FAUCET HOLE: R72511-SD PULL-DOWN KITCHEN SINK FAUCET WITH POLISHEE





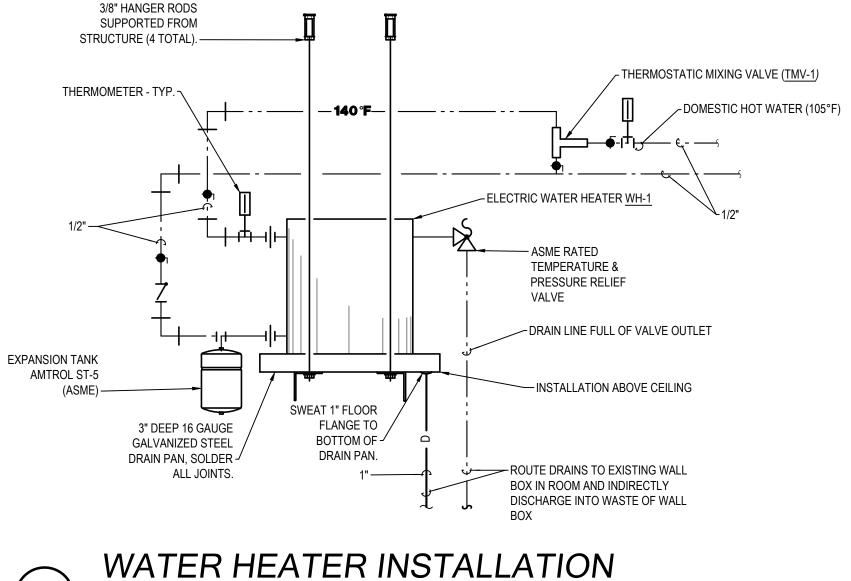


SCALE: 1/8" = 1'-0"



VALVE ON HOT AND

ION TANK EQUAL TO





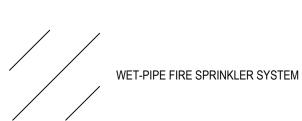
FIRE PROTECTION FLOOR PLAN

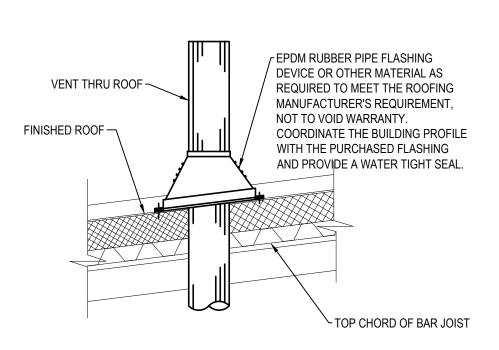
NOTES BY SYMBOL: "(#)"

- 1. CONNECT NEW COLD WATER PIPING TO EXISTING WATER PIPING. SIZED AS SHOWN. 2. ROUTE 3/4" COLD WATER PIPING DOWN IN WALL. BRANCH 1/2" COLD WATER PIPING TO SINK AND CONNECT. BRANCH 1/2" COLD WATER PIPING TO TANKLESS WATER HEATER BELOW SINK AND CONNECT. ROUTE 1/2" HOT WATER PIPING FROM TANKLESS WATER HEATER AND CONNECT TO SINK. REFER TO DETAIL 3 OF THIS SHEET FOR TANKLESS WATER HEATER INSTALLATION DETAIL. ROUTE 2" VENT PIPING UP IN WALL FROM
- SINK AND CONTINUE AS SHOWN. ROUTE 2" WASTE PIPING DOWN FROM SINK. 3. ROUTE 2" WASTE PIPING DOWN FROM SINK AND CONNECT TO EXISTING 3" WASTE PIPE STUB IN FLOOR. 4. PROVIDE AND INSTALL WATER HEATER AT A HEIGHT OF 9'-0" ABOVE FINISHED FLOOR, ABOVE THE
- WASHER/DRYER STACK (BY OWNER). REFER TO DETAIL 4 OF THIS SHEET FOR WATER HEATER INSTALLATION DETAIL.
- 5. ROUTE 1/2" COLD WATER PIPING AND 1/2" HOT WATER PIPING DOWN IN WALL AND CONNECT TO EXISTING WALL BOX. ROUTE 2" VENT UP FROM EXISTING WALL BOX AND CONTINUE AS SHOWN.

PLUMBING LEGEND					
	COLD WATER				
	HOT WATER (110°F HW)				
	WASTE (SANITARY SEWER)				
V	VENT (SANITARY SEWER)				
F	FIRE PROTECTION PIPE				
	EXISTING UTILITY				
X	GATE VALVE				
i Ģ i	BALL VALVE				
	CHECK VALVE				
	STRAINER				
	UNION				
3	CAP END OF LINE				
e	RISER DOWN				
o	RISER UP				
II	PLUG CLEANOUT				
- _	DIRECTION OF FLOW				
	DIRECTION OF PITCH (DOWN)				
Р	THERMOMETER				
•	NEW TO EXISTING CONNECTION				
со	CLEANOUT				
FCO	FLOOR CLEANOUT				
WCO	WALL CLEANOUT				
VTR	VENT THRU ROOF				
AFF	ABOVE FINISHED FLOOR				
EA	EACH				
(E)	EXISTING				

FIRE PROTECTION LEGEND







VENT THROUGH ROOF DETAIL

SCALE: NTS

(05)

6300 Ridglea Place, Suite 700 Fort Worth, TX 76116 mail@bhbinc.com • 817.338.1277 • bhbinc.com TBPE Firm #44 • TBPLS FIRM #10011300 BHB PROJECT # 2017.013.095





17211.00

01.12.2018 P1.0

PLUMBING AND FIRE PROTECTION **FLOOR PLANS**

SM Approved

Drawn

\wedge	
$\overline{\Delta}$	
\bigtriangleup ——	
\overleftrightarrow —	
<u> </u>	
\Leftrightarrow —	
Δ	
☆	
\overleftrightarrow —	
$\overline{\lambda}$	
\bigtriangleup	
No. Date	Revision



11

S





