

PLUMBING SYMBOLS (NOT ALL SYMBOLS USED)

ABBREVIATIONS:

AFF/AFG	ABOVE FINISHED FLOOR/GRADE
AHJ	AUTHORITY HAVING JURISDICTION
AS	ANGLE STOP
BFP	BACKFLOW PREVENTER
CO	CLEANOUT
ETR	EXISTING TO REMAIN
FPC	FIRE PROTECTION CONTRACTOR
FFCO/FGCO	FLUSH FLOOR/GRADE CLEANOUT
FSEC	FOOD SERVICE EQUIPMENT CONTRACTOR
GC	GENERAL CONTRACTOR
IW	INDIRECT WASTE
OC	ON CENTERS
MC	MECHANICAL CONTRACTOR
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
PC	PLUMBING CONTRACTOR
ROUGH-IN	ROUGH-IN
TP	TYPICAL
VTR	VENT THRU ROOF
WCO	WALL CLEANOUT

LINE TYPES:

---	COLD WATER
---	HOT WATER
---	SANITARY
---	WASTE
---	VENT
---	CONDENSATE DRAIN LINE
---	FIRE PROTECTION
---	GAS

PIPE SYMBOLS:

○	BALL VALVE
○	GATE VALVE IN RISE
○	RISE & FALL IN PIPE
○	CLEAN OUT
○	FLOOR DRAIN
○	CONNECT TO EXISTING
○	PLUMBING PLAN NOTE
○	PLUMBING RISER MARKER
○	DETAIL NUMBER AND SHEET.

REVISIONS	DATE
ISSUE FOR CLIENT, LANDLORD AND PERMIT	11/01/2017
ISSUE FOR PERMIT	11/07/2017

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 BY: ROBERT G. LYON & ASSOCIATES, INC.

VANS
 "OFF THE WALL" SINCE 1966
 VANS #522
 AVENTURA MALL
 19501 BISCAYNE BLVD
 SPACE #31
 AVENTURA, FL 33180

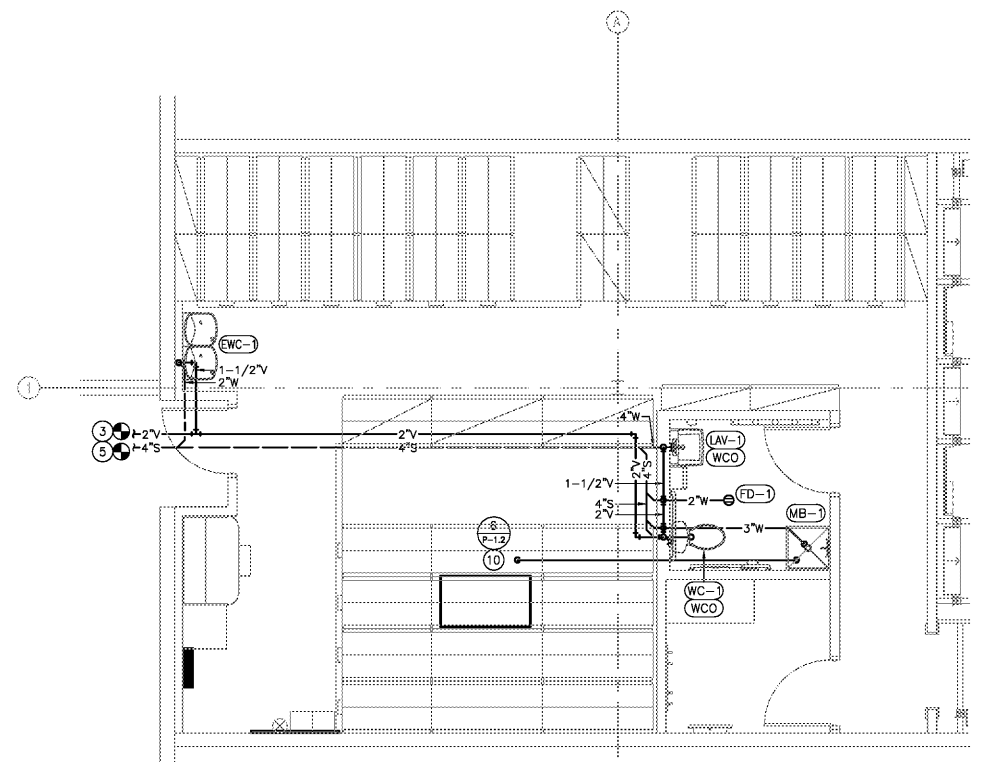
PLUMBING
 PLANS AND
 RISER DIAGRAMS

DRAWN BY
 HEI
 CHECKED BY
 HEI
 JOB NUMBER

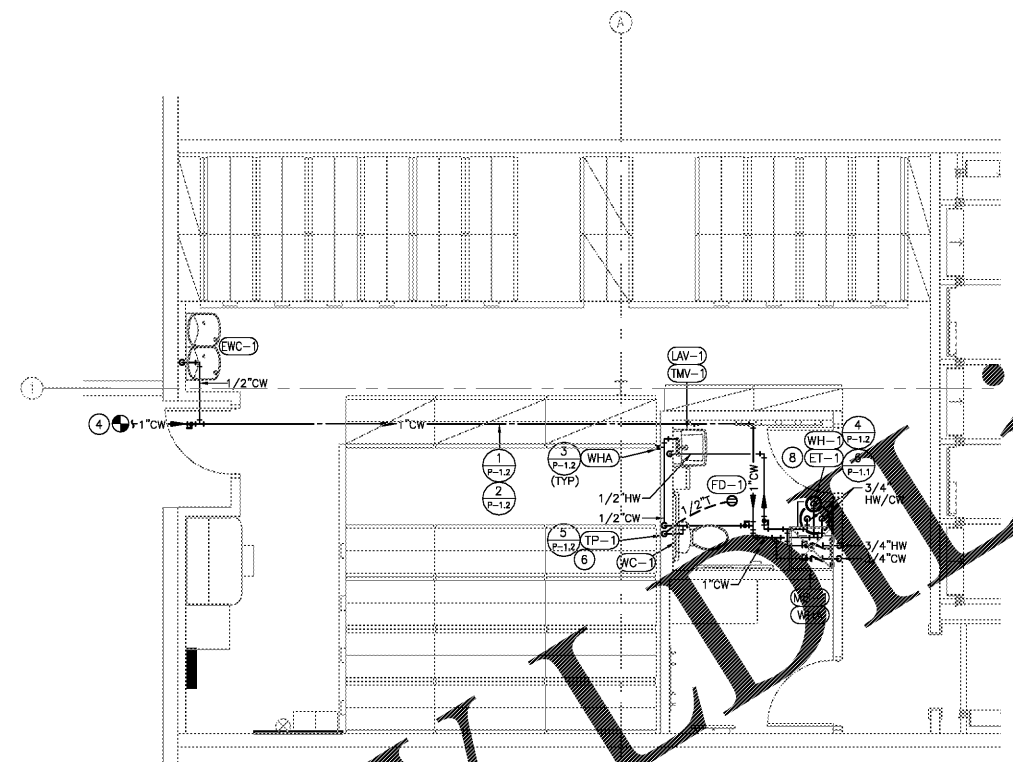
17182-522

SHEET NAME
 P-1.1

HENDERSON ENGINEERS
 8345 LENEVA DRIVE, SUITE 300
 LENOVA, KS 66214
 TEL (913) 742-5000 FAX (913) 742-5001
 WWW.HENDERSONENGINEERS.COM
 1750003858
 FL CERTIFICATE OF AUTHORIZATION # EB 7606
 EXPIRES 02/28/19



2 DWV PLAN
 SCALE: 1/4"=1'-0"



DOMESTIC WATER SERVICE

BASIS OF DESIGN FOR THE DOMESTIC WATER DISTRIBUTION, SIZING, AND PLUMBING FIXTURE SELECTION AS SHOWN IN THESE DOCUMENTS ARE BASED UPON A MINIMUM AVAILABLE WATER SERVICE PRESSURE OF 20 PSI AT THE POINT OF CONNECTION TO THE LANDLORD WATER SERVICE PIPING. SHOULD AVAILABLE DOMESTIC WATER PRESSURE BE LESS THAN 20 PSI, AT MINIMUM 14 GPM, THEN OWNER SHALL BE RESPONSIBLE FOR PROVIDING A DOMESTIC WATER BOOSTER PUMP SYSTEM. SHOULD AVAILABLE DOMESTIC WATER PRESSURE BE GREATER THAN 80 PSI, THEN OWNER SHALL BE RESPONSIBLE FOR PROVIDING A PRESSURE REDUCING VALVE TO REDUCE DOMESTIC WATER DISTRIBUTION PRESSURES BELOW 80 PSI.

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

PLAN NOTES:

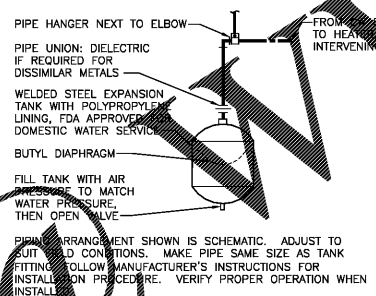
- DEMO EXISTING FIXTURE AND ASSOCIATED PIPING BACK TO ACTIVE MAIN OR AS INDICATED ON DRAWINGS. PROVIDE CAP AT EXISTING PIPING TO REMAIN. PATCH OPENINGS IN FLOORS OR WALLS TO MATCH ADJACENT.
- DEMO EXISTING WATER HEATER AND ASSOCIATED ACCESSORIES AND PIPING BACK TO ACTIVE MAIN OR AS INDICATED ON DRAWINGS. PROVIDE CAP AT EXISTING PIPING TO REMAIN.
- CONNECT NEW 2" VENT PIPE TO EXISTING 2" VENT PIPE. FIELD VERIFY EXACT LOCATION AND MAKE NECESSARY CONNECTIONS AS REQUIRED.
- CONNECT NEW 1" COLD WATER PIPE TO EXISTING WATER SUPPLY. FIELD VERIFY EXACT LOCATION AND MAKE NECESSARY CONNECTIONS AS REQUIRED.
- CONNECT NEW 2" SANITARY PIPE TO EXISTING 4" SANITARY PIPE. FIELD VERIFY EXACT LOCATION AND MAKE NECESSARY CONNECTIONS AS REQUIRED.
- PROVIDE TRAP PRIMER PER TRAP PRIMER DETAIL.
- PROVIDE WATER HEATER PER WATER HEATER ON PLATFORM DETAIL.
- PROVIDE EXPANSION TANK PER EXPANSION TANK DETAIL.
- EXTEND WATER HEATER DRAIN PAN AND TAP RELIEF VALVE INDIVIDUALLY TO WOP BASIN PER INDIRECT DRAIN DETAIL.
- CONNECT TO HVAC EQUIPMENT PER CONDENSATE DRAIN DETAIL.

RESTROOM WALL PENETRATIONS

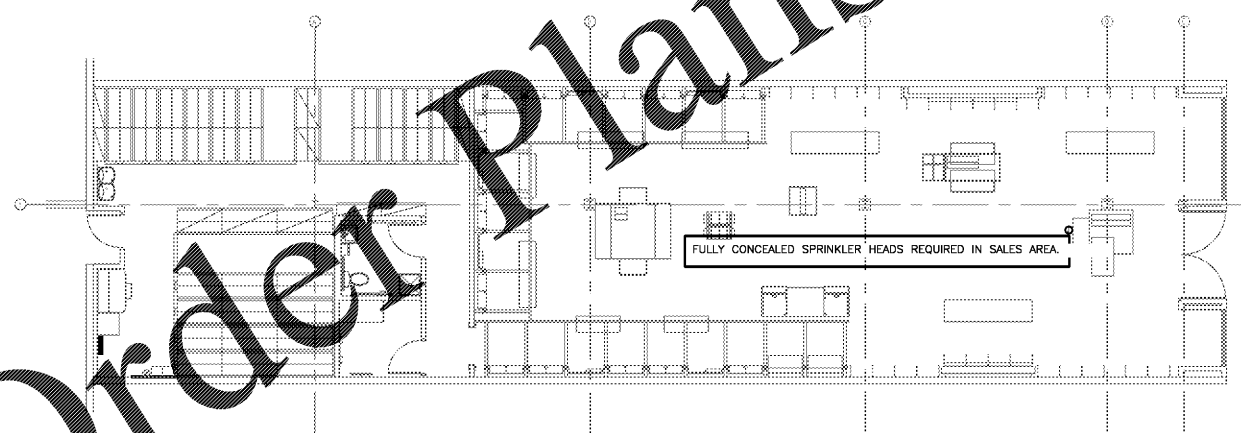
ANY ACCESS PANELS, CLEANOUTS, ETC. LOCATED INSIDE THE RESTROOM SHALL BE MOUNTED AT A HEIGHT SO THE TRIM OR ESCUTCHEONS WILL BE 4" ABOVE FINISHED FLOOR MINIMUM TO CLEAR THE BASE AND TRIM. THIS WILL HAVE TO BE TAKEN INTO CONSIDERATION AT ROUGH-IN.

FIRE PROTECTION CRITERIA

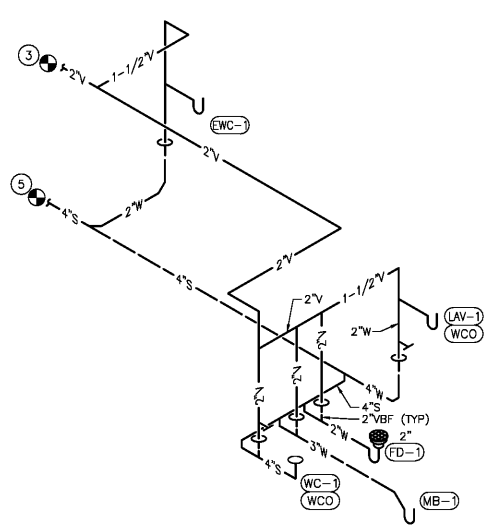
THIS SPACE IS CURRENTLY SERVED BY AN AUTOMATIC WET PIPE FIRE SPRINKLER SYSTEM. CONTRACTOR SHALL BE RESPONSIBLE FOR THE MODIFICATION OF THE EXISTING FIRE SPRINKLER SYSTEM IN ACCORDANCE WITH NFPA REQUIREMENTS. PROVIDE ALL THE MATERIALS AND LABOR REQUIRED FOR COMPLETE INSTALLATION. SYSTEM MODIFICATIONS SHALL BE DESIGNED UNDER THE SUPERVISION OF A LICENSED PROFESSIONAL ENGINEER, AND CONTRACTOR SHALL PREPARE ALL REQUIRED SIGNED/SEALED DRAWINGS, CALCULATIONS, AND SHALL OBTAIN APPROVAL OF ALL STATE, LOCAL, AND INSURANCE UNDERWRITING AUTHORITIES. THE SPRINKLER SYSTEM SHALL BE TESTED UNDER PRESSURE BY CONTRACTOR, AND INSPECTED AND APPROVED BY LOCAL FIRE MARSHAL, PRIOR TO ACCEPTANCE BY OWNER.



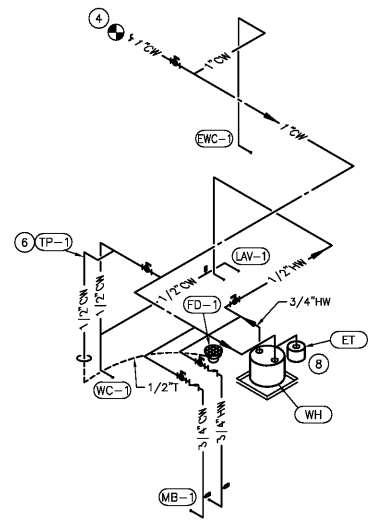
6 SMALL EXPANSION TANK
 NO SCALE



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



4 DWV RISER
 NTS



5 WATER RISER
 NTS

Order Plans