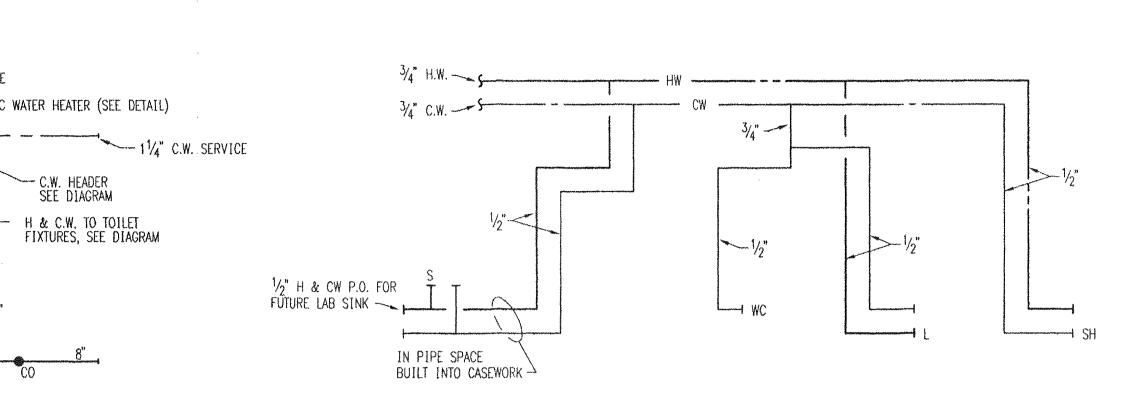
## GENERAL PLUMBING NOTES

- 1. SEE PLOT/SITE PLAN FOR THE EXTENT OF ALL PIPING LEAVING AND ENTERING BUILDING.
- 2. SANITARY PIPING TO BE CAST IRON OR SCHEDULE 40 PVC TO AT LEAST 5'-0" BEYOND BUILDING WALL UNLESS INDICATED OTHERWISE.
- 3. MAKE PROPER H & CW, W, V, ETC. PIPING CONNECTIONS TO ALL FIXTURES AND EQUIPMENT EVEN THOUGH ALL BRANCH MAINS. ELBOWS AND CONNECTIONS ARE NOT SHOWN.
- 4. CHECK WITH ARCHITECTURAL WORKING DRAWINGS BEFORE
- ROUGHING-IN PLUMBING FIXTURES.
- 5. SLOPES AND INVERT ELEVATIONS OF SEWERS, MANHOLES, SEPTIC TANKS, ETC., SHALL BE ESTABLISHED AND VERIFIED BY PLUMBING CONTRACTOR BEFORE ANY PIPING IS INSTALLED IN ORDER THAT PROPER SLOPES WILL BE MAINTAINED AND NECESSARY INVERT ELEVATIONS OBTAINED.
- 6. COORDINATE THE LOCATION OF ALL PIPING WITH LIGHTING FIXTURES, DUCT, GRILLES, HEATING, PIPING, ETC...
- 7. MAKE 1/2" CONNECTIONS TO TANK TYPE WC'S. 1/2"H & CW TO LAVS AND SHOWERS, 1/2"CW TO EWC'S AND 3/4"H & CW TO SERVICE SINKS.
- 8. ALL CUTOFF VALVES, SHOCK ABSORBERS, ETC. SHALL BE ACCESSIBLE THROUGH AN ACCESS DOOR OR THROUGH LAY-IN CEILING, PROVIDE ACCESS DOOR WHERE REQUIRED.
- 9. FURNISH DEEP SEAL P-TRAPS, ON ALL FLOOR DRAINS NOT EQUIPPED WITH A TRAP PRIMER.
- 10. ALL VENTS THRU THE ROOF SHALL BE A MINIMUM OF 20'-0" AWAY FROM AC UNITS OR OTHER FRESH AIR INTAKES.

PLUMBING FIXTURE SCHEDULE				
NAME	DESCRIPTION	MOUNTING HEIGHT		
WC	VITREOUS CHINA, FLOOR MOUNTED WATER CLOSET, FLUSH VALVE, 1.6 GAL PER FLUSH	161/2" FLOOR TO RIM		
L	20"x18" VITREOUS CHINA LAVATORY	29" FLOOR TO BOTTOM OF APRON		
SH	36"x36" SHOWER WITH BALANCED PRESSURE CONTROL VALVE	72" TO G OF SHOWER ARM		
SC	FREEZE-PROOF SILLCOCK	MOUNTED 2'-0" ABV FIN GRADE		
SS	SERVICE SINK	MOUNTED 2'-4" FLOOR TO RIM		
S	SINK	COUNTER MOUNTED		

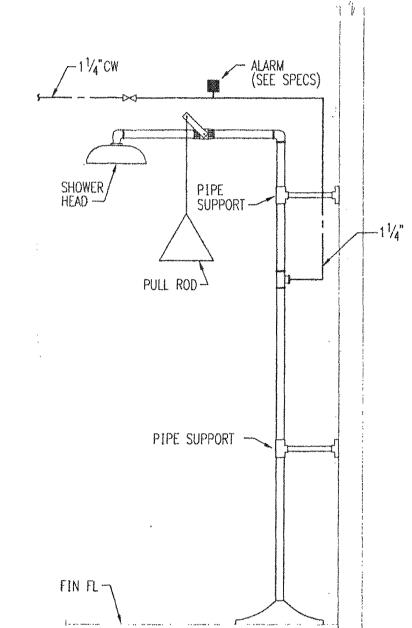
4"W&V DN TO	SERVICE SINK " SC		White page 47 - 4 . A delice - A page 50	
4" VIR SA	LOADING & LOADING & UNLOADING		ELEC ROOM	Ε
	THRU TRUSSES 3/4		ELECTRI 11/4" 8	C WATER HEATER (SEE DETAIL)  11/4" C.V  C.W. HEADER SEE DIAGRAM
	4" FD-C	SH SH	4" FD-A	H & C.W. TO TOILET FIXTURES, SEE DIAGRAM
	CO 4" — 8"	2"-	2"W&V 4" 2"VTR	8"
4" FD-B	8"	LAB		2"W&V, OFFSET VENT INTO WALL SEE DETAIL
	8" FD-C	4" FD-A		CAP WASTE FOR FUTURE LAB SINK

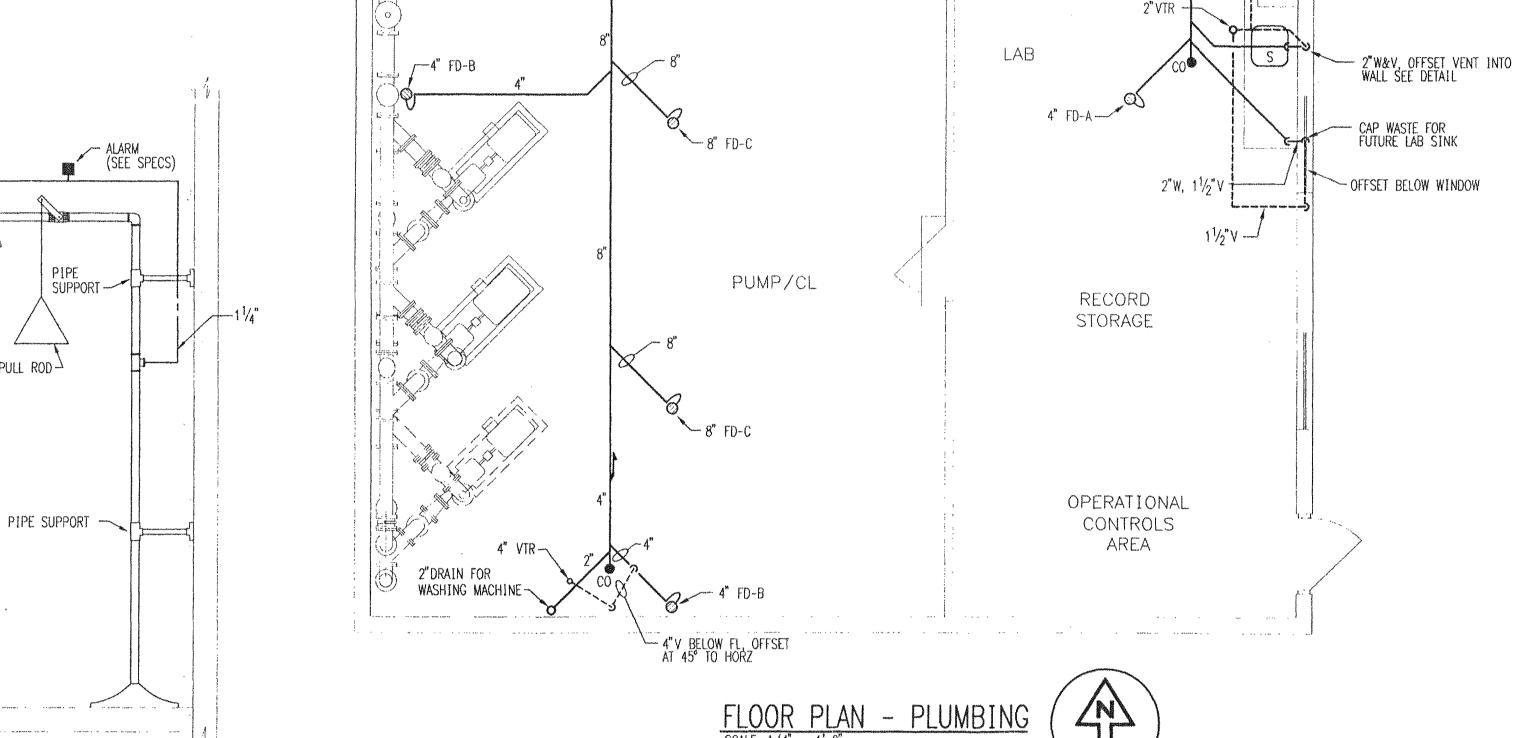


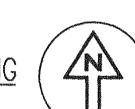
HOT AND COLD WATER DIAGRAM

## PLUMBING LEGEND SYMBOLS AND ABBREVIATIONS COLD WATER HOT WATER 45/MMS franciscoccustomer 445 445 approxipation processors SANITARY SOIL & WASTE SANITARY VENT desire which settle within which cause drives states within which drives which contain highly DIRECTION OF SLOPE DOWN DIRECTION OF FLOW CUTOFF VALVE (IN PLAN) CUTOFF VALVE (IN VERTICAL) ——**⊙**≯-CV SHOCK ABSORBER STRAINER \_\_\_\_\_ TEPID WATER merinal consecution designates. M. retainment execution and consecution of the consecutio TEPID WATER RETURN BEL - BELOW P & T - PRESSURE & CO - CLEAN-OUT TEMPERATURE - CUTOFF VALVE COLD WATER SA - SHOCK ABSORBER EWC - ELECTRIC WATER COOLER SC - SILL COCK FD - FLOOR DRAIN - HOSE BIBB - VENT HW - HOT WATER VTR - VENT-THRU-ROOF W - WASTE L - LAVATORY PRV - PRESSURE WC - WATER CLOSET

REDUCING VALVE

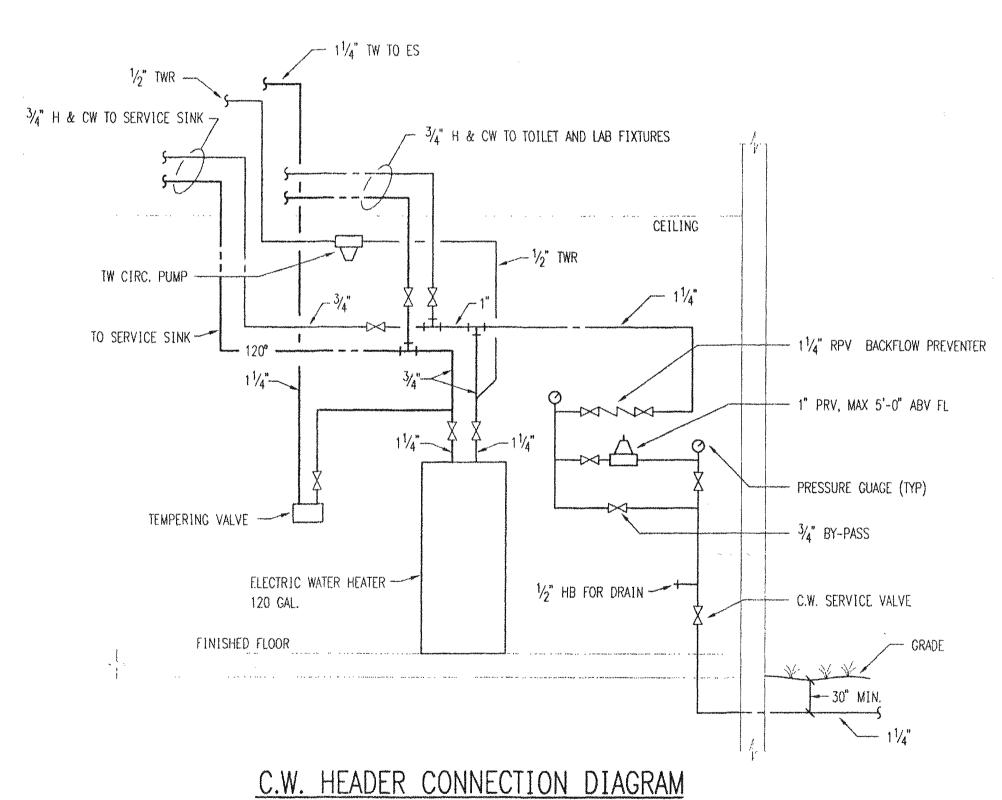




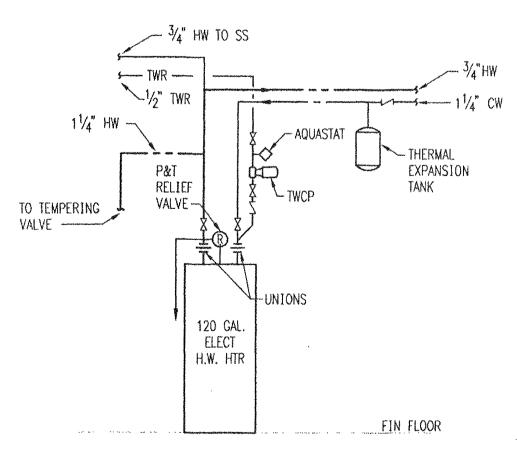


FLOOR PLAN - PLUMBING
SCALE: 1/4" = 1'-0"

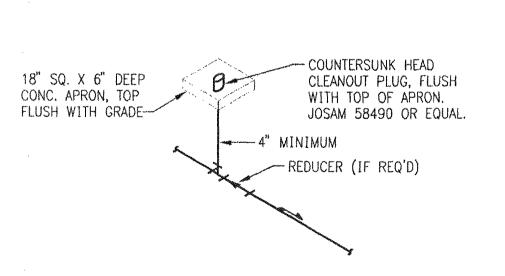




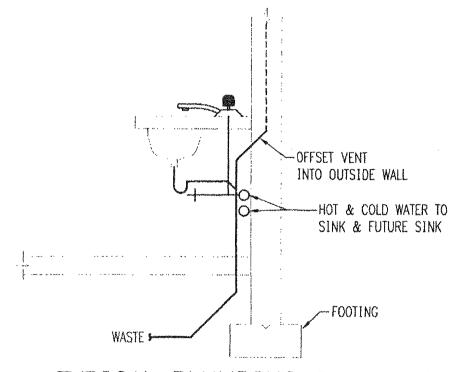
CONNECTIONS AT EMERGENCY SHOWER



DETAIL OF CONNECTIONS TO ELECTRIC WATER HEATER



DETAIL OF CLEANOUTS IN OUTSIDE SANITARY SEWER



TYPICAL PLUMBING CONNECTIONS TO LABORATORY EQUIPMENT



Approved

JBO

## WHITESCARVER, HURD & OBENCHAIN, INC.

4932 FRONTAGE ROAD NW ROANOKE, VIRGINIA 24019

CONSULTING ENGINEERS

17 of 19

COMM: 99110 CHK: RJG GREENFIELD SEE PLAN SDR CHLORINATION FACILITY Designed JUNE 1999 RJG PROJECT: 97075 Checked PLUMBING RJG

IGINEERING CONCEPTS, INC.