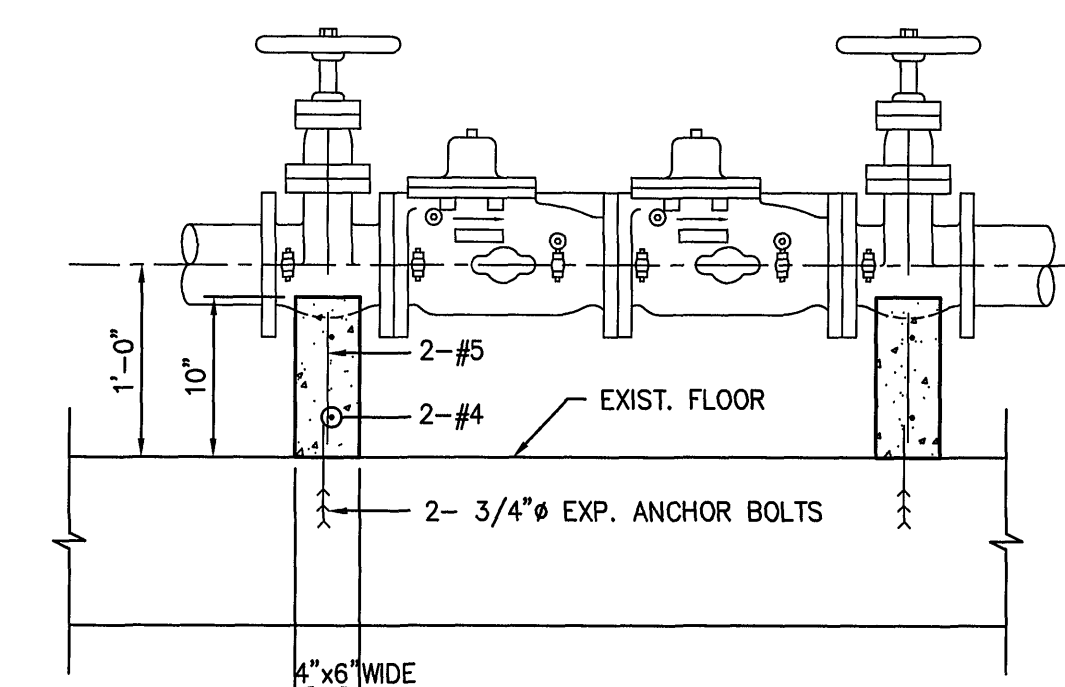
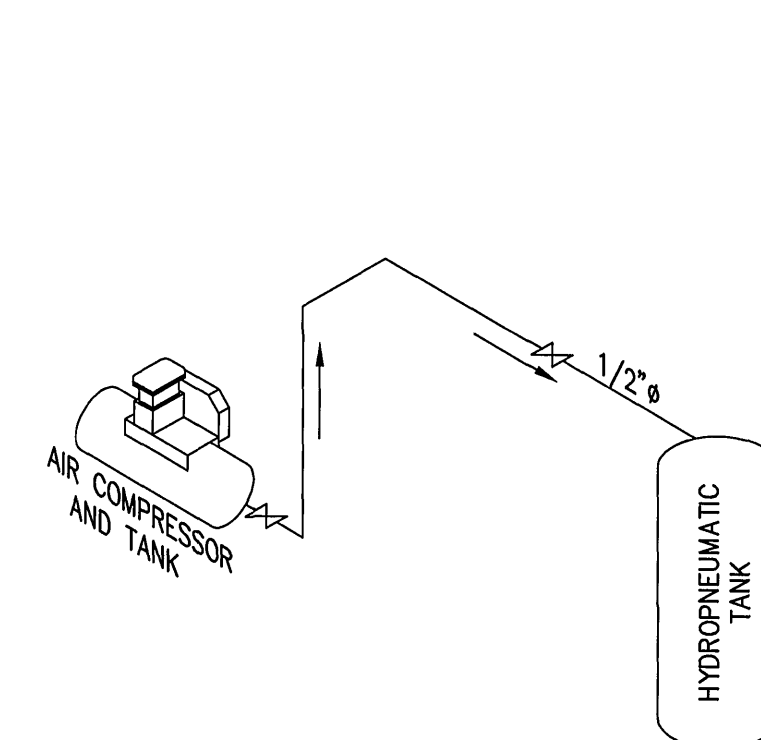
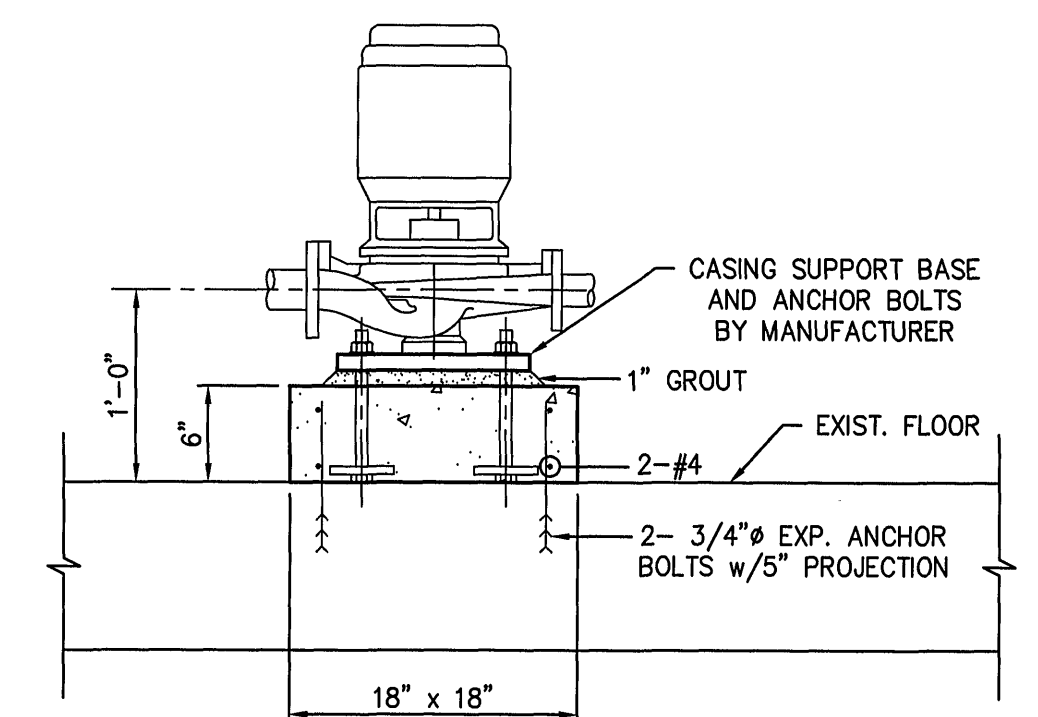


TYPICAL PIPE SUPPORT DETAILS
SCALE: 1" = 1'-0"

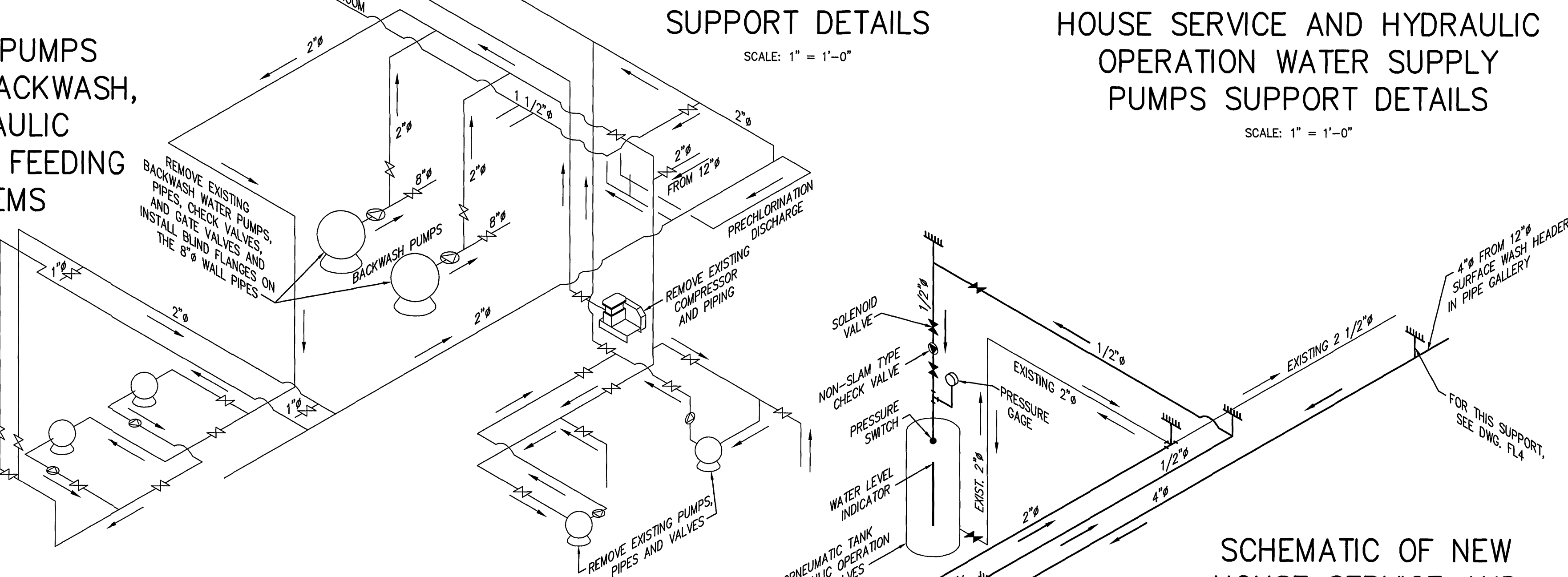
SCHEMATIC OF EXISTING PUMPS AND PIPING SYSTEM FOR BACKWASH, HOUSE SERVICE, HYDRAULIC OPERATION AND CHEMICAL FEEDING WATER SUPPLY SYSTEMS



3" BACKFLOW PREVENTER SUPPORT DETAILS
SCALE: 1" = 1'-0"



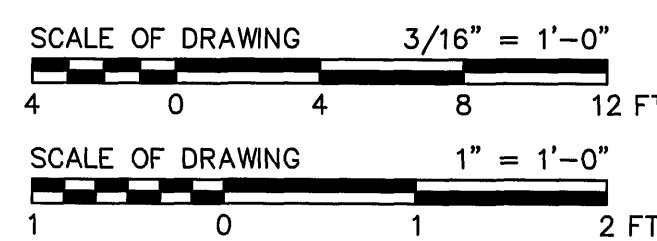
HOUSE SERVICE AND HYDRAULIC OPERATION WATER SUPPLY PUMPS SUPPORT DETAILS
SCALE: 1" = 1'-0"



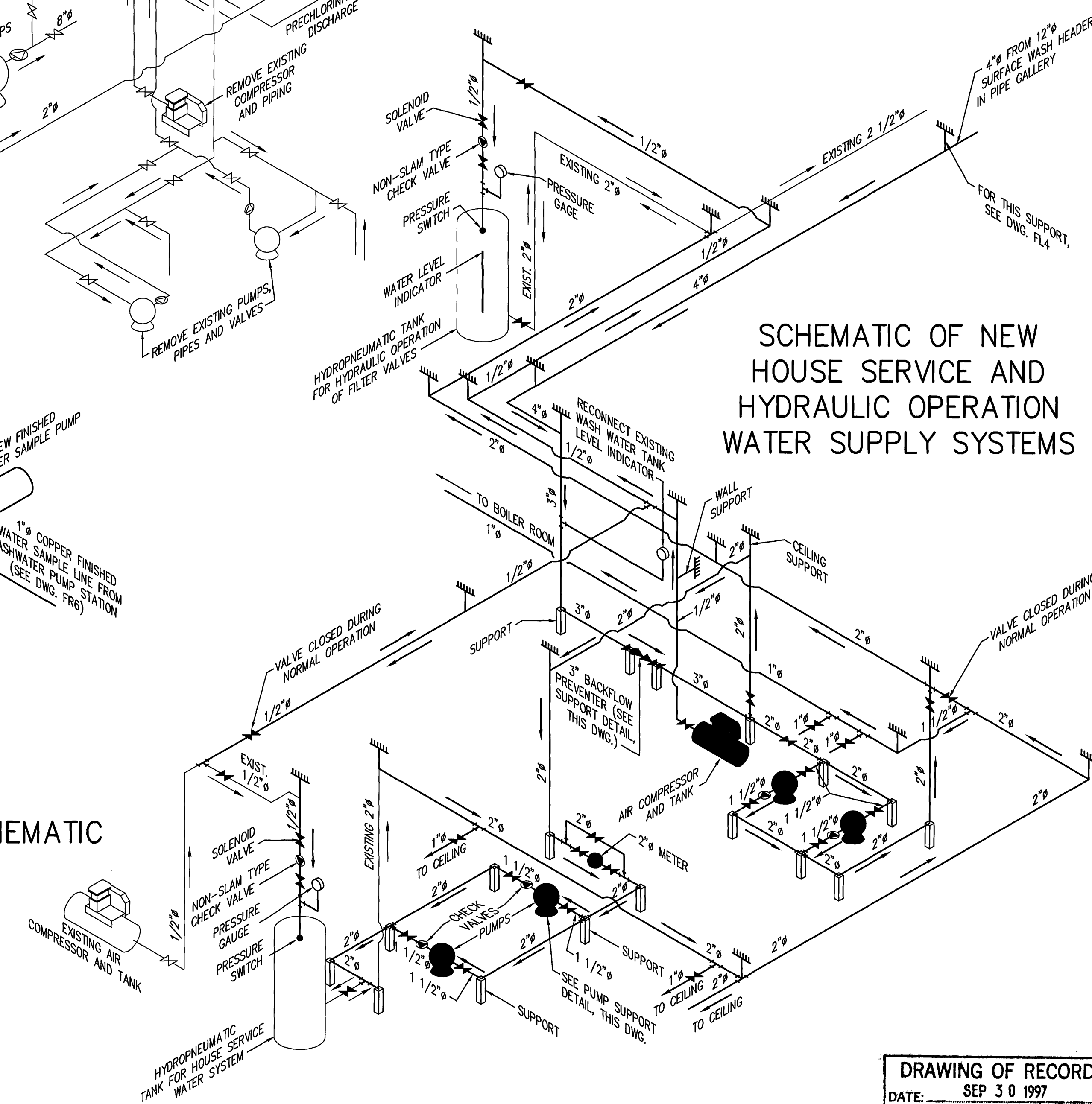
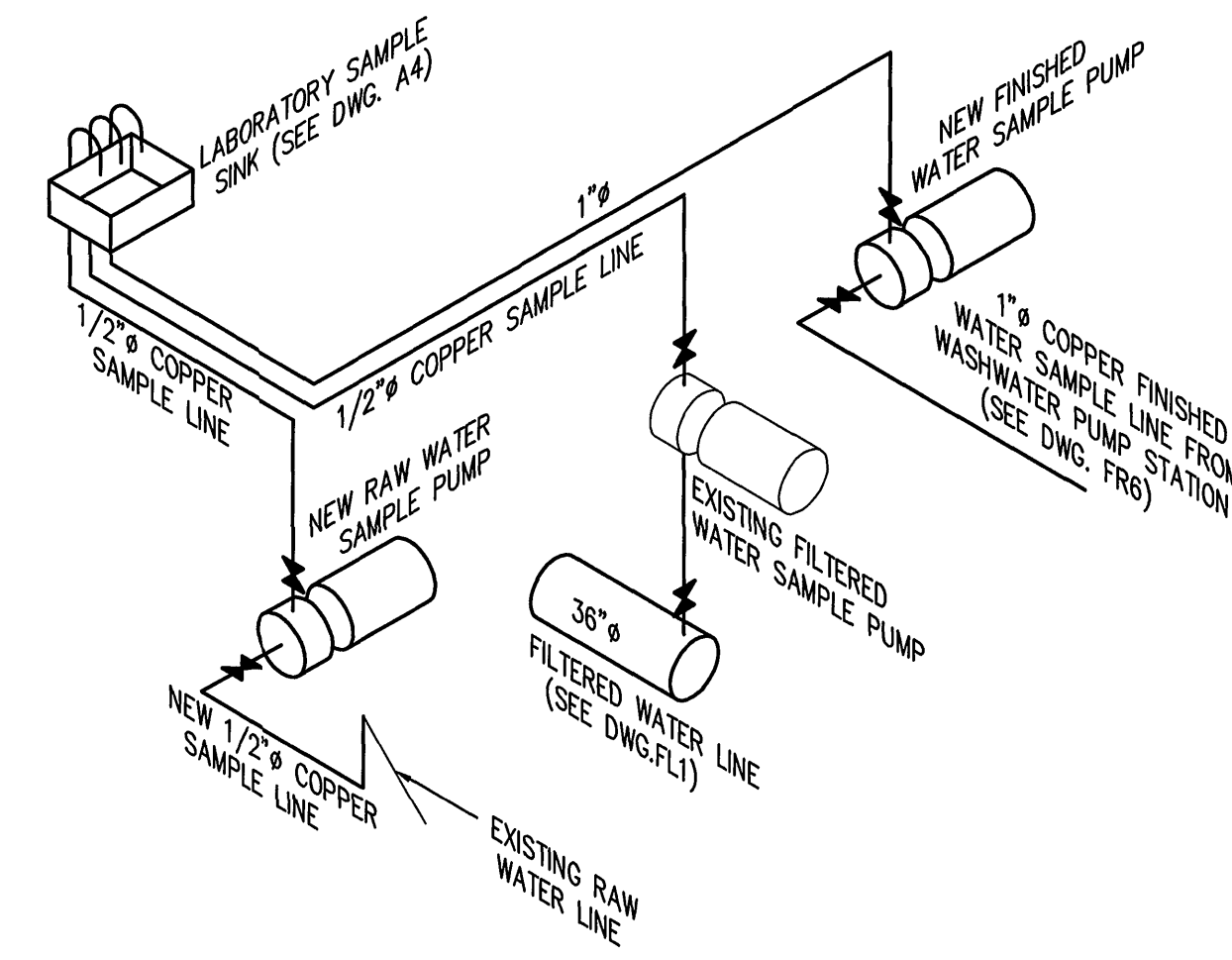
SCHEMATIC OF NEW HOUSE SERVICE AND HYDRAULIC OPERATION WATER SUPPLY SYSTEMS

GENERAL NOTES


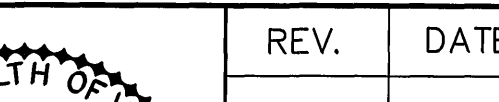
1. EXACT LOCATION OF PUMPS, AIR COMPRESSOR AND PIPES SHALL BE APPROVED BY OWNER AND ENGINEER.
2. CONTRACTOR SHALL FURNISH AND INSTALL ALL PUMPS, AIR COMPRESSOR/TANK, METER, VALVES, FITTINGS, AND PERFORM ALL OTHER WORKS INDICATED IN THIS SCHEMATIC IN ACCORDANCE WITH THE SPECIFICATION.
3. CONTRACTOR SHALL SEAL ALL FLOOR AND WALL OPENINGS AFTER REMOVAL OF PUMPS AND PIPES AND RESTORE FLOOR AND WALL TILES, MATCHING COLOR AND PATTERN OF EXISTING FLOOR AND WALL TILES.
4. CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL ABANDONED PIPES AND PUMPS AND FLANGE OR PLUG ALL DISCONNECTIONS.
5. CONTRACTOR SHALL TRANSFER ALL HOUSE SERVICE AND HYDRAULIC OPERATION WATER SUPPLY CONNECTIONS ON ABANDONED LINES TO NEW HOUSE SERVICE AND HYDRAULIC OPERATION LINES.
6. ALL VALVES SHOWN ON THIS SCHEMATIC LESS THAN 3" ARE TO BE BALL VALVES (BRONZE/BRASS) EXCEPT AS NOTED. VALVES 3" AND LARGER ARE TO BE GLOBE VALVES.
7. ALL LINES SHOWN ON THIS SCHEMATIC LESS THAN 3" ARE TO BE COPPER.
8. CEILING SUPPORTS FOR WATER LINES: GRINNELL FIG. 65.
9. CEILING AND WALL SUPPORTS FOR PNEUMATIC LINES: GRINNELL FIG. CT-124.



SAMPLE WATER SYSTEM SCHEMATIC



DRAWING OF RECORD
DATE: SEP 30 1997

MATTERN & CRAIG CONSULTING ENGINEERS • SURVEYORS ROANOKE VIRGINIA	DESIGNED: R.S.T.C. W.G.N.			REV.	DATE	DESCRIPTION	BY	APP.	CARVINS COVE FILTER PLANT IMPROVEMENTS – PHASE I ROANOKE, VIRGINIA	DATE JUNE 1992	
	DRAWN: L.M.J.										COMM. NO. 9130
	CHECKED: Y.T.L.										SHEET FL7
ALVORD, BURDICK & HOWSON ENGINEERS CHICAGO									HOUSE SERVICE WATER & HYDRAULIC CONTROL WATER SYSTEM		