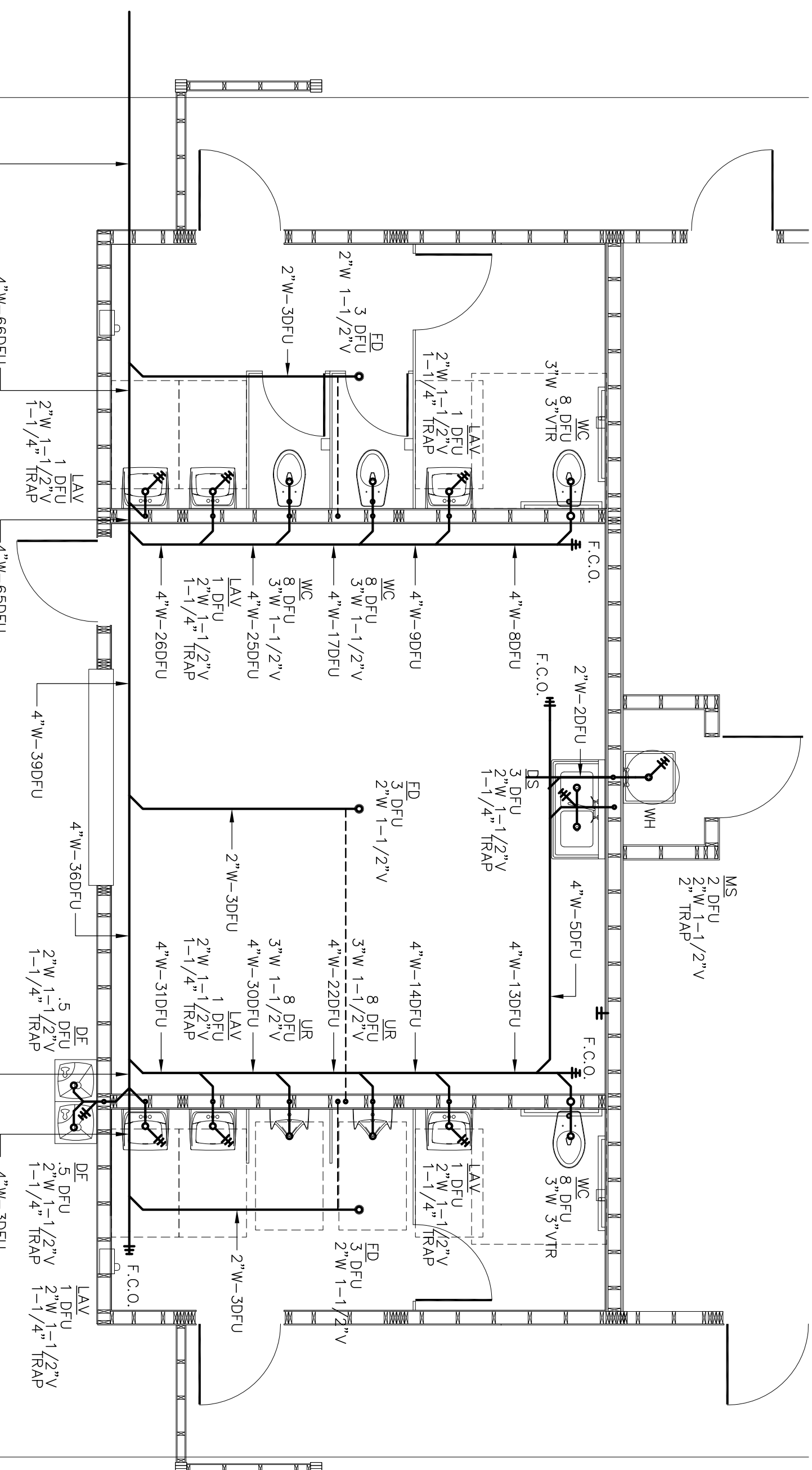
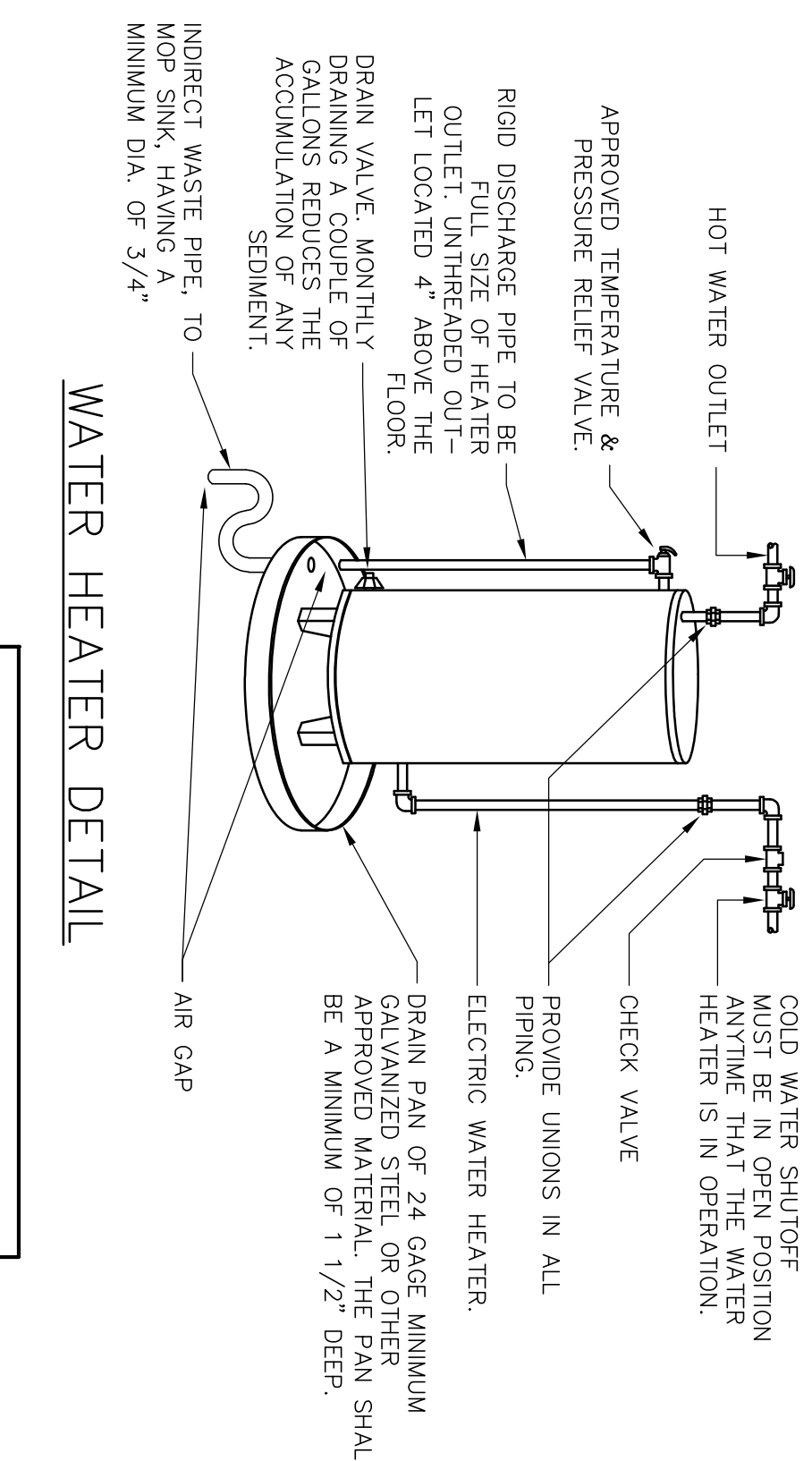


**PLUMBING SUPPLY PLAN**  
SCALE: 1/4" = 1'-0"

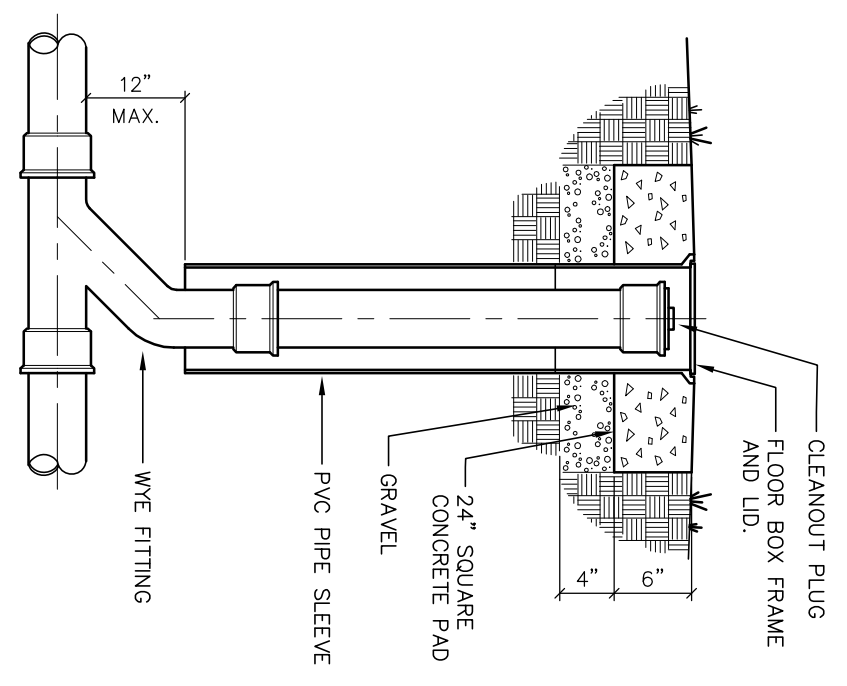


**PLUMBING WASTE PLAN**  
SCALE: 1/4" = 1'-0"

**NOTE: MAXIMUM HOLE SIZE THROUGH STUDS FOR HORIZONTAL VENT PIPING TO BE 2 1/4" Ø, CENTERED IN STUD.**



**WATER HEATER DETAIL**  
ALL HOT WATER PIPING SHALL BE INSULATED WITH A MINIMUM 1/2" PIPE INSULATION



**EXTERIOR CLEANOUT DETAIL**

**NOTE:** THE 2" WATER SERVICE SIZE IS BASED UPON A BUILDING WATER DEMAND OF 99 GPM WITH A MINIMUM PRESSURE OF 55 PSI AT THE CITY MAIN A MAXIMUM LIFT OF 10' BETWEEN THE CITY MAIN & THE WATER METER AND A DISTANCE BETWEEN THE CITY MAIN & THE WATER METER OF 320'. THIS THIS EQUATES TO 23.73 PSI OF PRESSURE LOSS FROM THE CITY WATER MAIN UP TO THE WATER METER. IF THE DISTANCE BETWEEN CITY MAIN & THE WATER METER IS IN EXCESS OF 320' OR IF THE LIFT IS IN EXCESS OF 10' CONTACT RCP SHELTERS, INC.

**PLUMBING NOTES & SPECIFICATIONS**

PLUMBING CONTRACTOR TO PROVIDE A COMPLETE WORKING PLUMBING SYSTEM WITH ALL PERMITS, LABOR, & MATERIALS TO CONFORM W/ APPLICABLE STATE & LOCAL CODES, THE AMERICANS WITH DISABILITIES ACT (ADA), & WITH PROPER PLUMBING PRACTICES.

**MATERIALS TO BE:**  
 BUILDING SEWER: PVC  
 WATER SERVICE: COPPER TYPE "K"  
 INTERIOR DISTRIBUTION: COPPER TYPE "L"

ALL BRANCH LINES & EACH FIXTURE TO BE VALVED. PROVIDE GATE VALVE ON EACH SIDE OF WATER METER, & INSTALL W/ UNIONS TO FACILITATE EASE OF REMOVAL.

ALL WASTE LINES TO BE PITCHED AT 1/4" PER 1'-0". ALL WASTE LINES BELOW SLAB TO BE 2" MINIMUM.

WALL MOUNTED LAVATORIES TO BE SUPPORTED W/ AN ANSI APPROVED CARRIER LOCATED WITHIN THE WALL & HAVING CONCEALED ARMS.

ANY SOLDER USED IN DOMESTIC WATER SUPPLY PIPING SHALL BE OF A 95/5 (TIN-ANTIMONY), OR A 95.5/4/0.5 (TIN-COPPER-SILVER) COMPOSITION.

LAVATORY OUTLET DEVICES TO BE OF THE SELF CLOSING TYPE TO LIMIT THE FLOW TO A MAXIMUM OF 1.0 GALLON AFTER ACTIVATION.

MAXIMUM FLOW RATES FOR OTHER FIXTURES SHALL BE:  
 WATER CLOSETS: 1.6 GAL. PER FLUSH, SIPHONIC, FUSHOMETER VALVE URINAL: 1 GAL. PER FLUSH, FUSH VALVE

**WATER SUPPLY CALCULATIONS**

Job # 7380	Job / Address RCP Shelter, Boiling Springs, PA	55.00	PSI
Initial R.V.		15.00	PSI
MINIMUM AVAILABLE PRESSURE AT WATER MAIN / PRESSURE TANK		0.30	PSI
HIGHEST PRESSURE REQUIRED AT ANY FIXTURE		1.12	in.
SIZE OF METER (O.A. I.D.)		2.77	PSI
OTHER			PSI
PRESSURE LOSS AT WATER HEATER, WATER SOFTENER, ETC.			PSI
Difference in elevation from main or external pressure tank to building control valve	10.00	0.434	PSI
Difference in elevation between the building control valve and the controlling fixture	3.00	0.434	PSI
<b>TOTAL PRESSURE LOSS</b>		<b>31.29</b>	<b>PSI</b>
<b>AVAILABLE PRESSURE REMAINING FOR FRICTION LOSS</b>		<b>31.29</b>	<b>PSI</b>

**LEGEND**

C.O.	CLEAN OUT
DF	DRINKING FOUNTAIN (N.I.C.)
DS	DOUBLE SINK (N.I.C.)
F.C.O.	FLOOR CLEAN OUT - ZURN Z1400K (N.I.C.)
FD	FLOOR DRAIN - SLOUX CHIEF FINISH LINE ADJUSTABLE (N.I.C.)
HB	1/2" KEVED HOSE BIBB - WOODFORD MODEL 65 (N.I.C.)
LAV	LAVATORY (DUAL TEMP FAUCET)
MS	MOP SINK - MUSTEE MODEL 62M (N.I.C.)
VTR	VENT THRU ROOF
WC	WATER CLOSET (1" FLUSH VALVE - SIPHONIC ACTION)
WH	WATER HEATER - 30 GAL. ELECTRIC WITH 3000 WATT, NON-SIMULTANEOUS ELEMENTS (N.I.C.)
W.C.O.	WALL CLEAN OUT - ZURN Z1446 (N.I.C.)

PIPE SECTION	PIPE TYPE	FLOW THROUGH SECTION (gpm)	LENGTH OF SECTION (ft)	PIPE SIZE (INCHES)	EQUIV. LG. OF FITTINGS (100 FT.)	TOTAL EQUIV. LG. (100 FT.)	FRICTION LOSS / 100' (PSI)	FRICTION LOSS (PSI)
Service	K	320.00	2.000	160.00	4.80	3.97617	19.08661	
aa	L	59.00	1.00	2.000	0.50	0.02	3.04698	0.04570
ab	L	45.00	4.00	2.000	2.00	1.84602	0.11076	
bc	L	40.00	5.00	1.500	2.50	5.70892	0.42817	
cd	L	38.00	3.00	1.500	1.50	5.19209	0.23364	
de	L	31.00	3.00	1.250	1.50	8.29563	0.37330	
ef	L	5.00	3.00	0.500	1.50	17.08983	0.78810	
g	L	3.00	3.00	0.500	1.50	6.63412	0.28954	
gh	L	1.00	3.00	0.500	1.50	0.86918	0.03911	
hi	L	51.00	9.00	2.000	4.50	0.14	2.32701	0.31415
ij	L	50.00	2.00	2.000	1.00	0.03	2.24330	0.08730
jk	L	50.00	3.00	2.000	1.50	0.05	2.24330	0.10095
kl	L	49.00	9.00	2.000	4.50	0.14	2.16100	0.29174
lm	L	45.00	5.00	2.000	2.50	0.08	1.84602	0.13945
mn	L	44.00	3.00	2.000	1.50	0.05	1.77084	0.07969
no	L	38.00	3.00	1.500	1.50	0.05	5.19209	0.23364
op	L	4.00	3.00	0.500	1.50	0.05	11.29589	0.50831
pq	L	2.00	3.00	0.500	1.50	0.05	3.13339	0.14100
qr	L	2.00	3.00	0.500	1.50	0.05	3.13339	0.14100
rs	L	4.00	9.00	0.500	4.50	0.14	11.29589	1.52494
st	L	6.00	18.00	0.750	9.00	0.27	4.05171	1.09365
tu	L	8.00	14.00	0.750	7.00	0.21	6.89892	1.44875
uv	L	8.00	3.00	0.750	1.50	0.05	6.89892	0.31045
wv	L	6.00	14.00	0.750	7.00	0.21	4.05171	0.85098
xw	L	4.00	9.00	0.500	4.50	0.14	11.29589	1.52494
yz	L	2.00	3.00	0.500	1.50	0.05	3.13339	0.14100

Total pressure loss due to pipe friction, from water source to controlling fixture: **30.29407**  
 Pressure remaining after calculated friction, static and residual losses: **0.99393**

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**LW-G50100-03-ENC-3FSC**  
 COMMUNITY PARK  
 BOILING SPRINGS, PA

PROJ. NO.: 08-289  
 DRAWN: RUV 11-12-08  
 CHECKED: RUV 3-24-09  
 REVISIONS:  
 REV. 1: RUV 4-28-09  
 REV. 2: RUV 4-28-09  
 REV. 3:  
 REV. 4:  
 CADD NO.: 7380 P1  
 EIC JOB NO.: 7380 R V  
 SHEET NO.: 6 OF 8

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