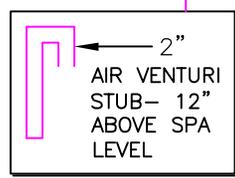
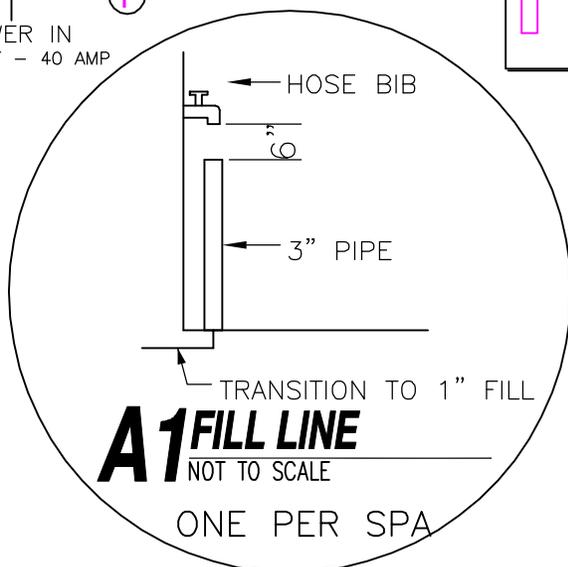


- A. Hayward SP-1084 commercially approved skimmer
- B. Two Hayward 9"X9" suction inlet grates
- C. Hydro-air re-circulation returns 10-5100
- D. A/P Spa Bright light, 100 watt @ 120 v
- E. Jacuzzi 3/4hp pump 230v, 20 amp
- F. Jacuzzi 2hp pump 230v, 20 amp
- G. Jacuzzi CFR-150 cartridge filter
- H. Purex Minimax 150 000 btu. gas heater
- I. Compool control center LX 80
- J. Hayward chlorinator
- K. Flow meter



ALL DIMENSIONS SUBJECT TO 1/4" TOLERANCES

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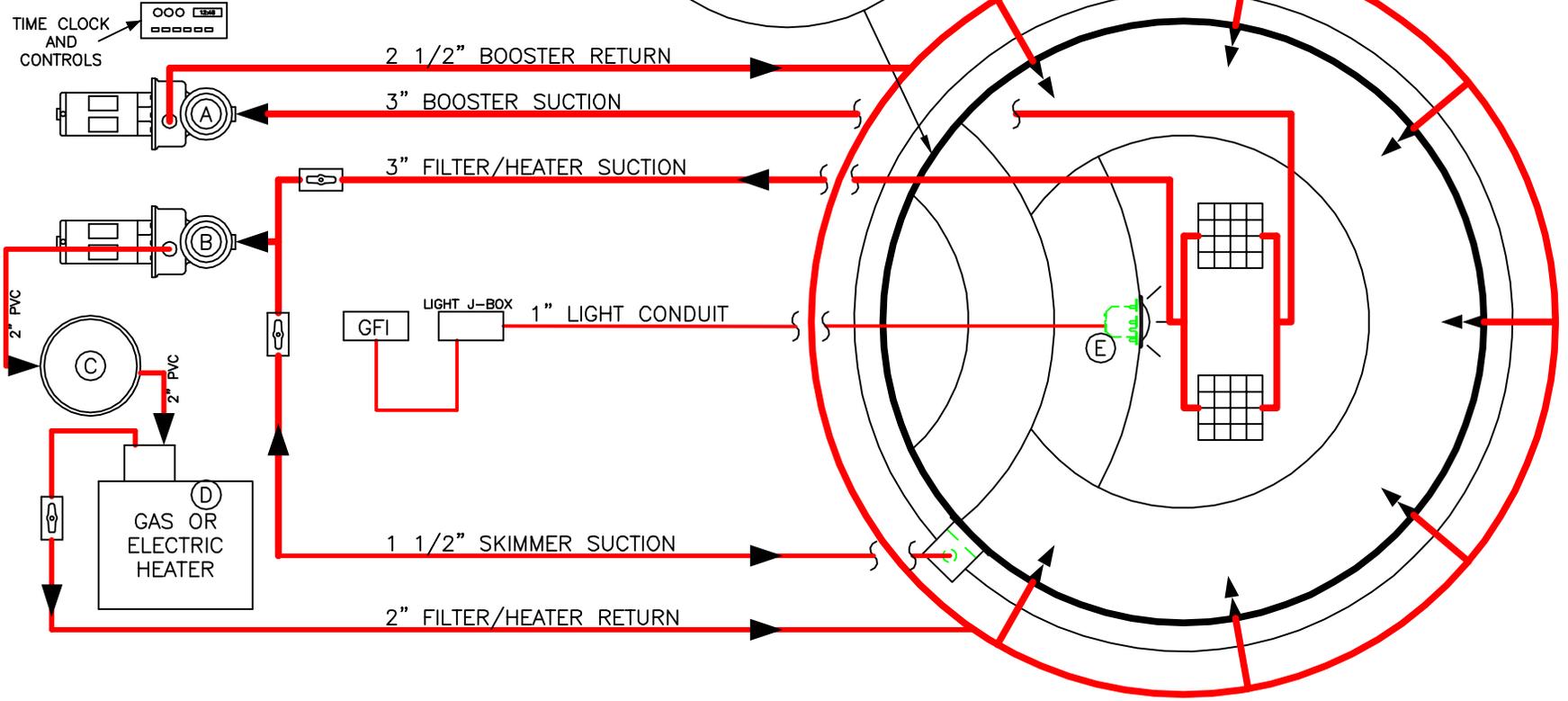
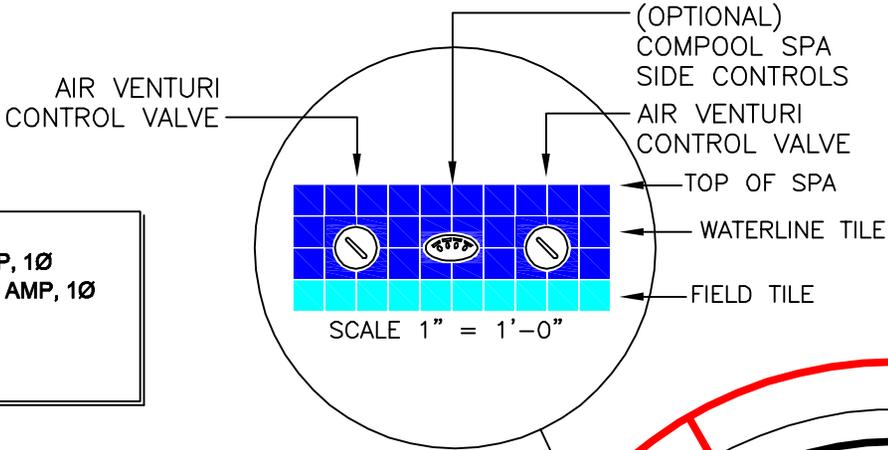


SIZE A	DWG TYPE PLUMBING 1	DWG NO. PLUMBING DETAILS	REV 0
SCALE 1/2" = 1'	DATE 4/13/2007	SHEET PAGE 1 OF 1	

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NOTE:
 LIGHT J-BOX MUST
 TERMINATE A MIN. OF 12
 INCHES ABOVE SPA

LEGEND:
 A PENTAIR 2HP WHISPER-FLO 230V, 20 AMP, 1Ø
 B PENTAIR 1-1/2 HP WHISPER-FLO 230V, 20 AMP, 1Ø
 C PENTAIR CARTRIDGE FILTER 200 SQ FT
 D GAS OR ELECTRIC HEATER
 E SPA LIGHT 120V, 100W



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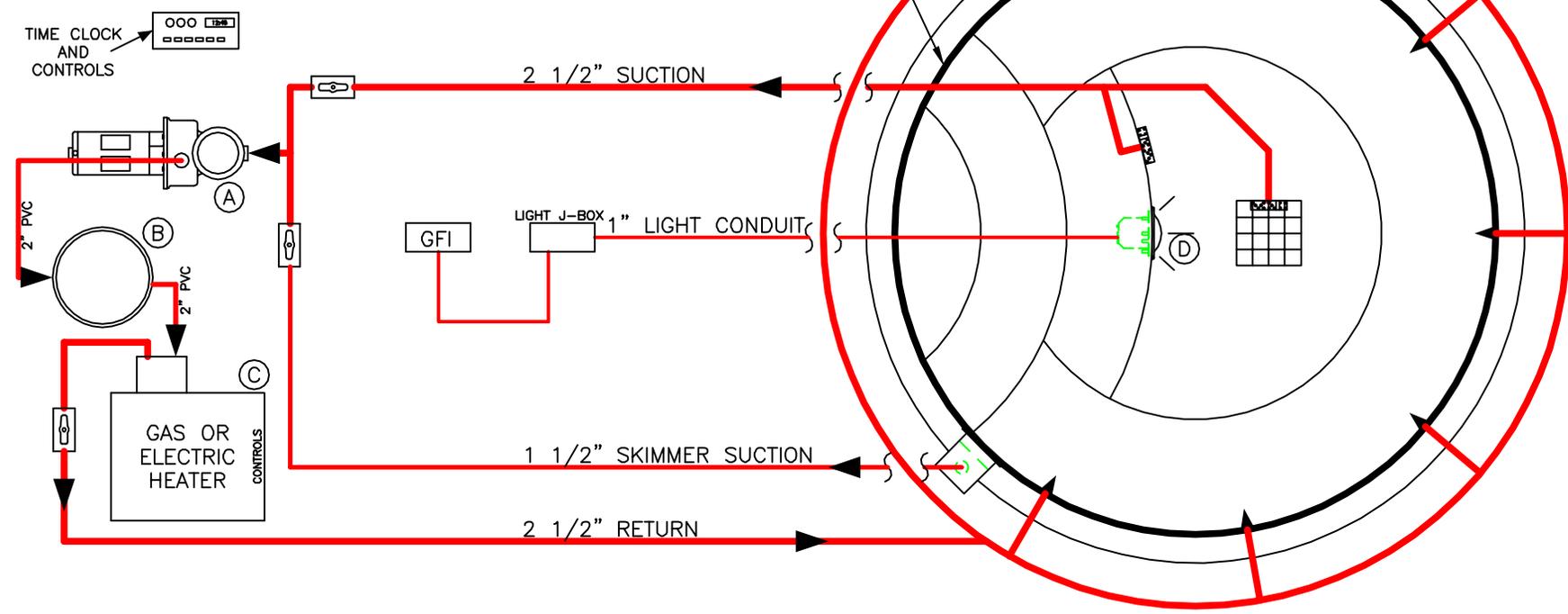
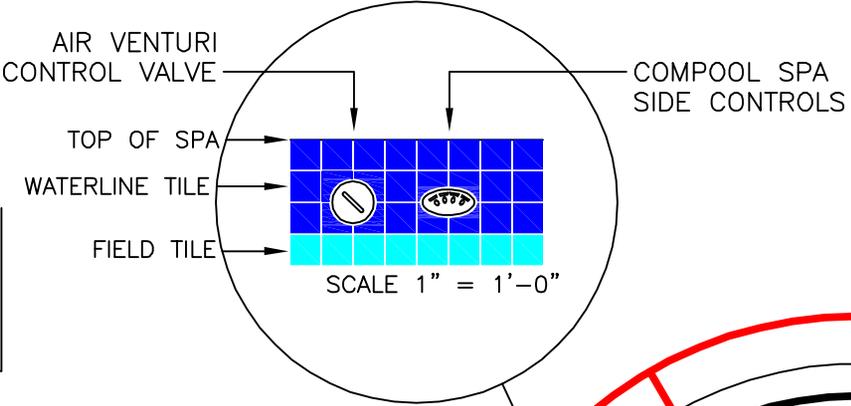
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SIZE A	DWG TYPE PLUMBING 2	DWG NO. PLUMBING	REV 0
SCALE 1/2" = 1'		DATE 4/13/2007	SHEET PAGE 1 OF 1

NOTE:
 LIGHT J-BOX MUST
 TERMINATE A MIN. OF 12
 INCHES ABOVE SPA

LEGEND:
 A PENTAIR 2HP WHISPER-FLO 230V, 20 AMP
 B PENTAIR CARTRIDGE FILTER 150 SQ FT
 C GAS OR ELECTRIC HEATER
 D SPA LIGHT 120V, 100W

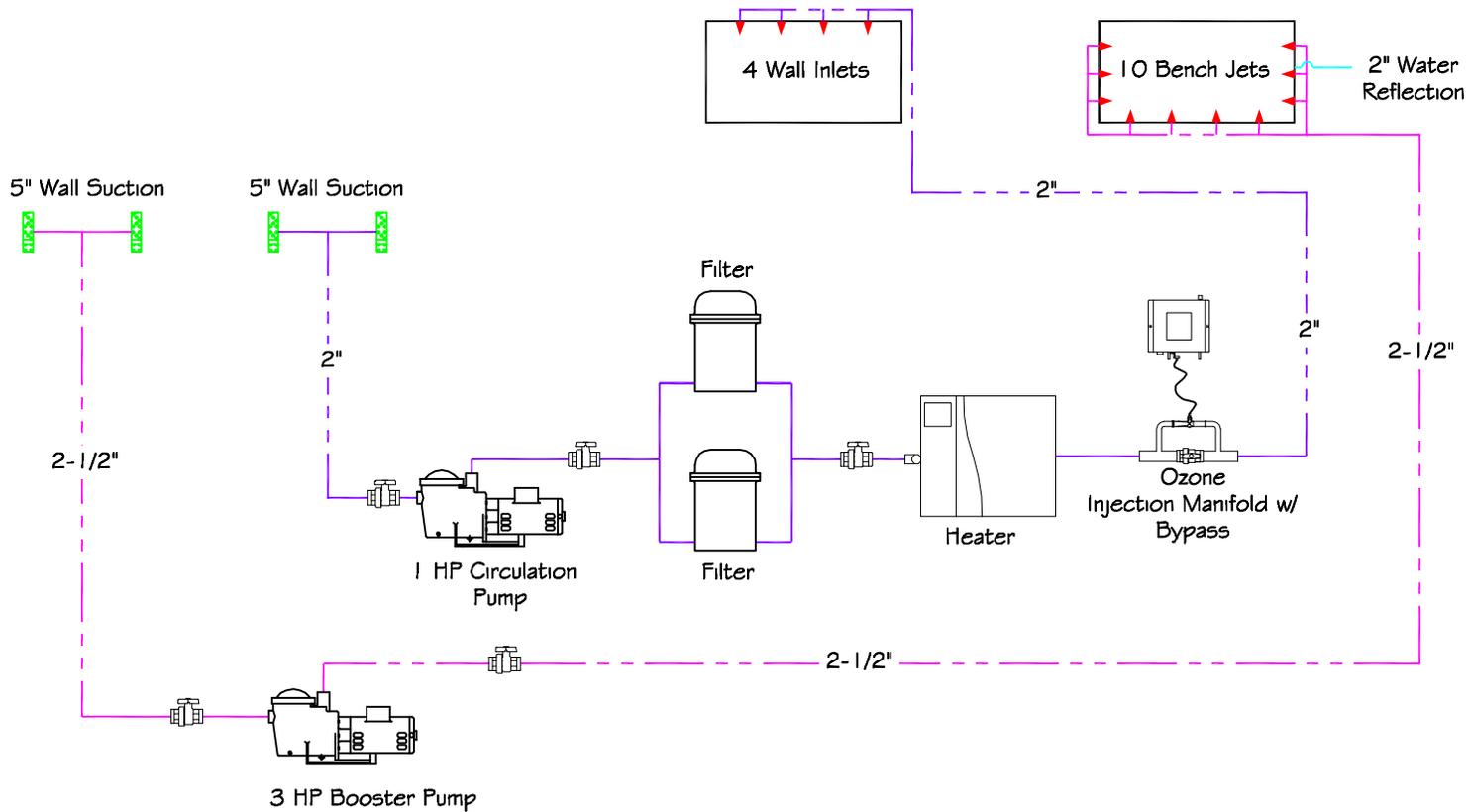


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SIZE A	DWG TYPE PLUMBING 3	DWG NO. PLUMBING	REV 0
SCALE 1/2" = 1'	DATE 4/13/2007	SHEET PAGE 1 OF 1	



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SIZE
A

DWG TYPE
PLUMBING SCHEMATIC

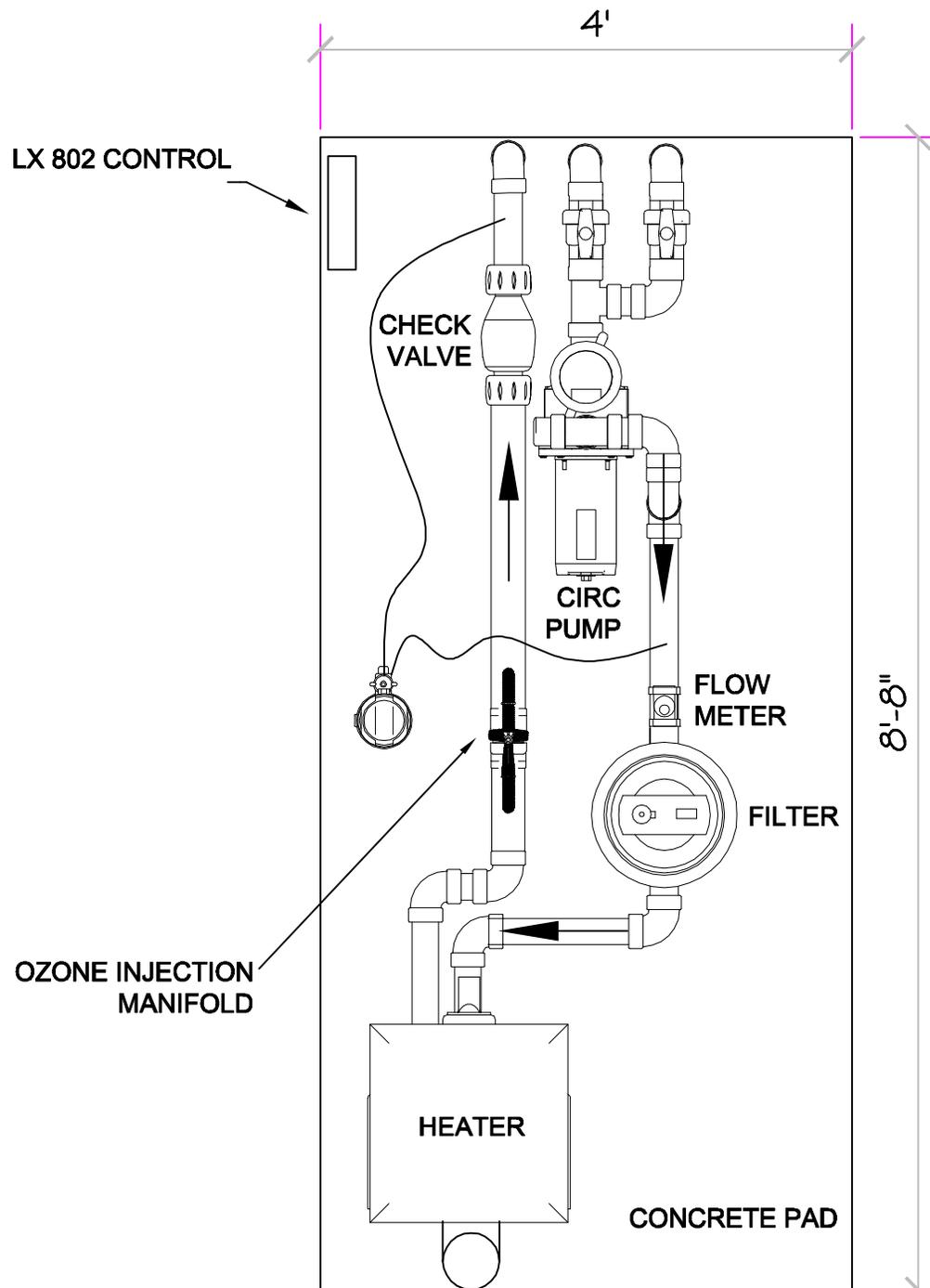
DWG NO.
PLUMBING

REV
0

SCALE 1/2" = 1'

DATE 6/11/2007

SHEET PAGE 1 OF 1



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SIZE DWG TYPE

A

PLUMBING LAYOUT

DWG NO.

PLUMBING

REV

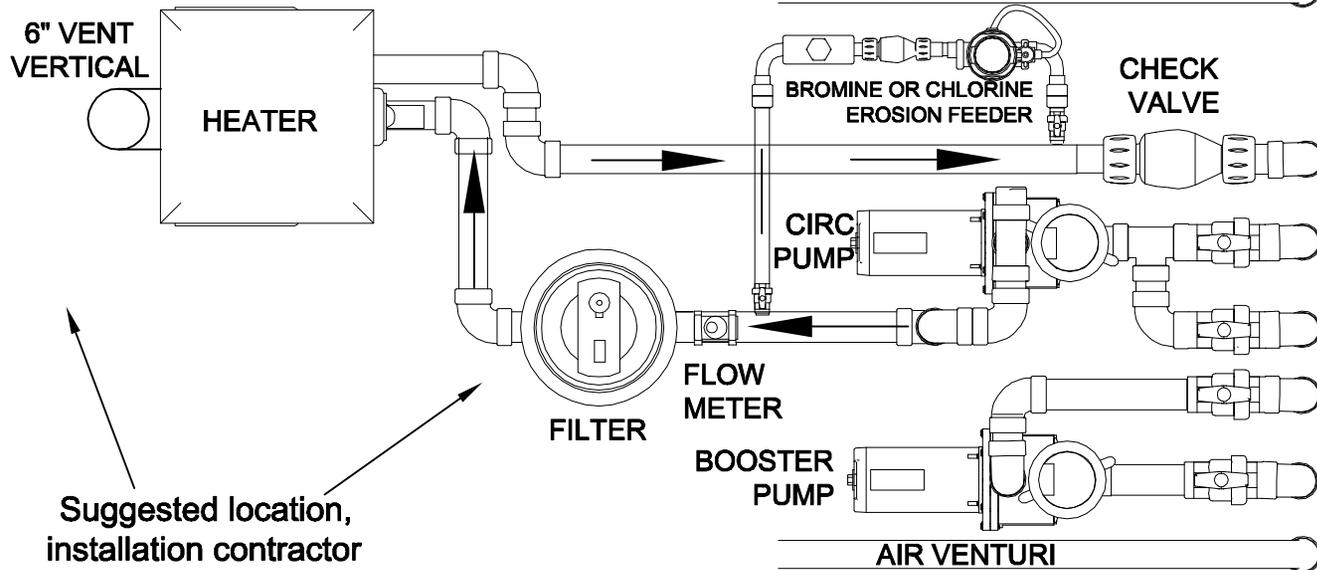
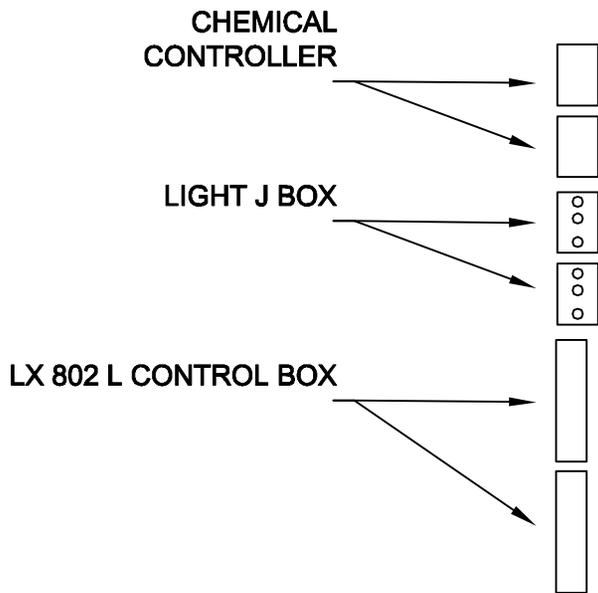
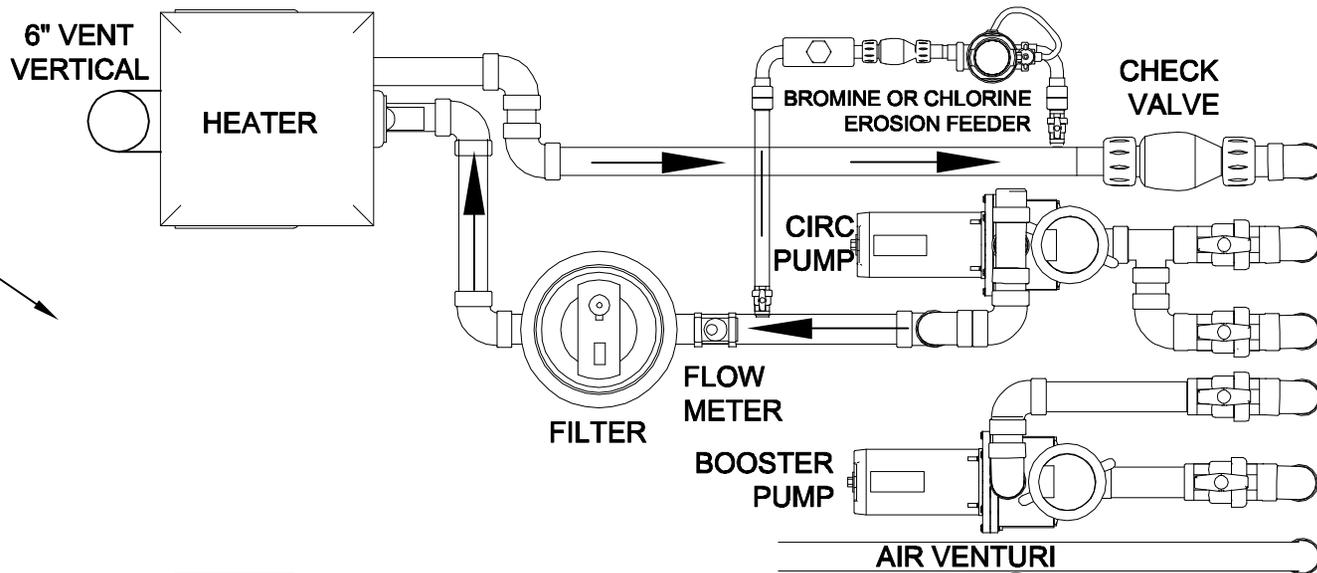
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SCALE 3/4" = 1'

DATE 6/11/2007

SHEET PAGE 1 OF 1

Note:
 Conceptual schematic of
 spa equipment placement.
 Code and Mechanical
 compliance to be
 authorized by engineer.



Suggested location,
 installation contractor
 responsible for code
 compliance.

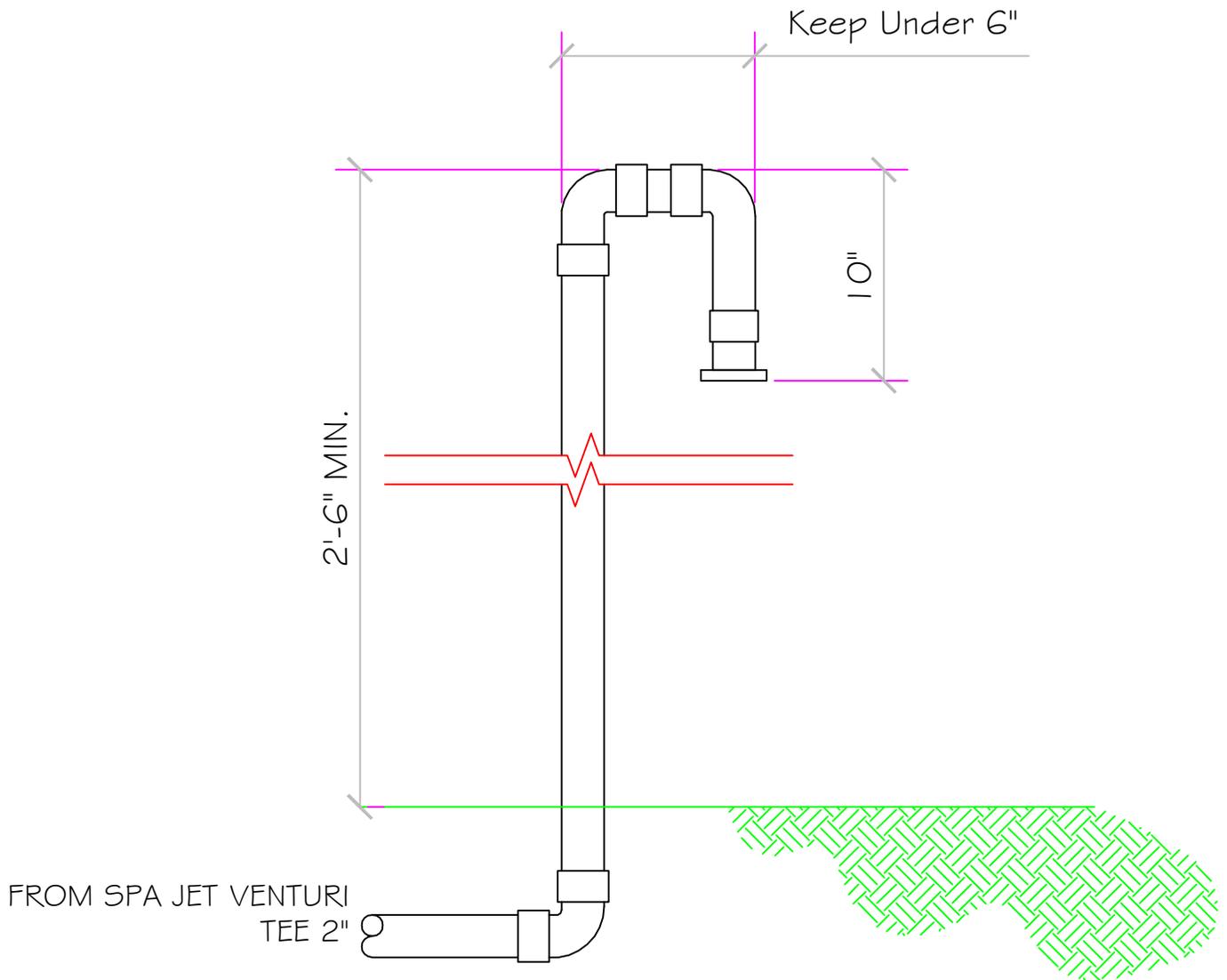
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SIZE	DWG TYPE	DWG NO.	REV
	A PLUMBING LAYOUT (2)	PLUMBING	0
SCALE	DATE	SHEET	PAGE
3/4" = 1'	6/11/2007	PAGE 1 OF 1	



AIR SUPPLY LOOP DETAIL

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SIZE
A

DWG TYPE
AIR SUPPLY DETAIL

DWG NO.
PLUMBING DETAILS

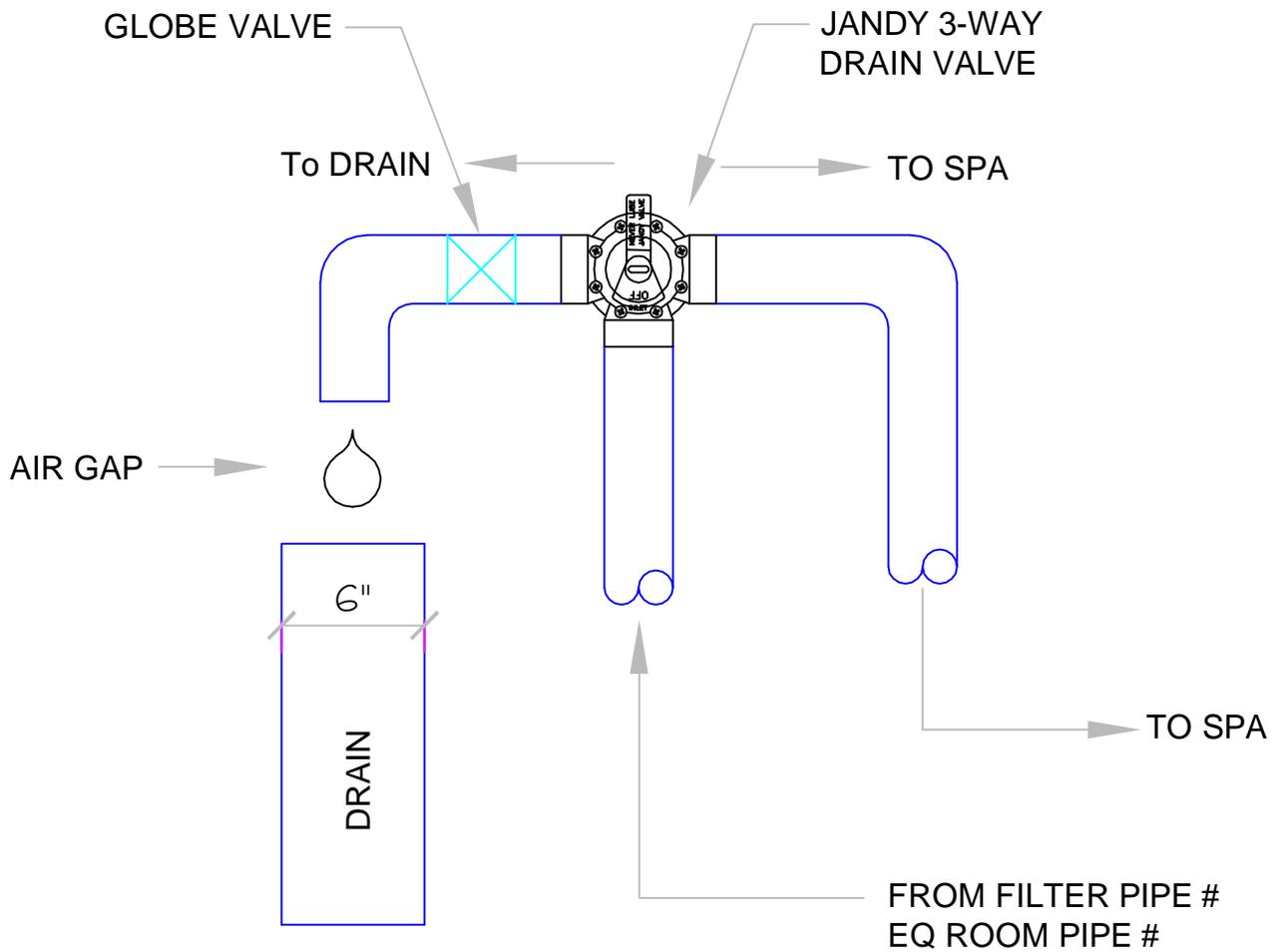
REV
0

SCALE 1 1/2" = 1'

DATE 4/9/2007

SHEET PAGE 1 OF 1

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SIZE
A

DWG TYPE

DRAIN VALVE

DWG NO.

PLUMBING DETAILS

REV

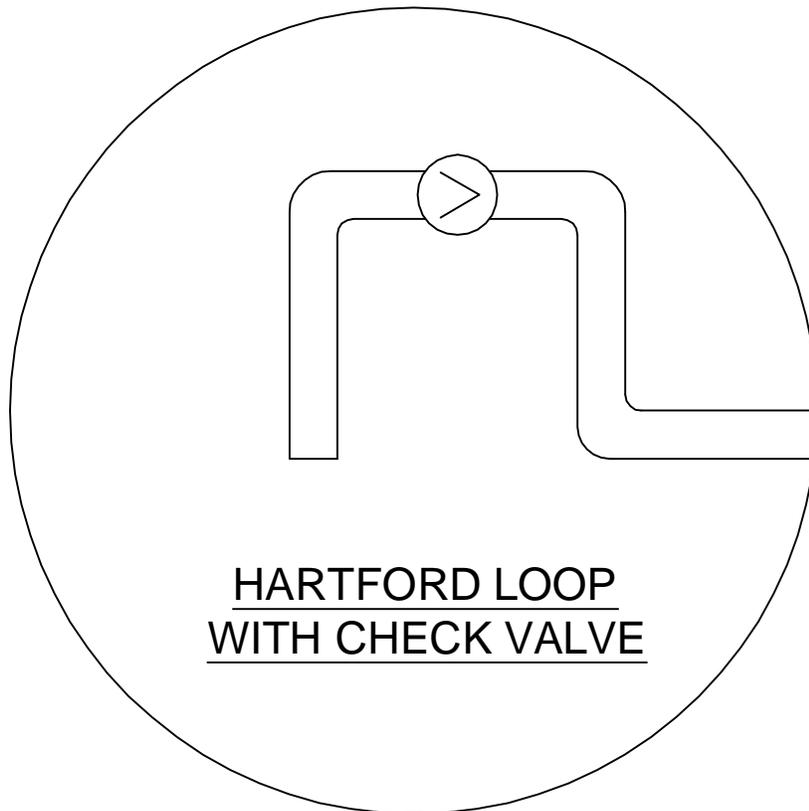
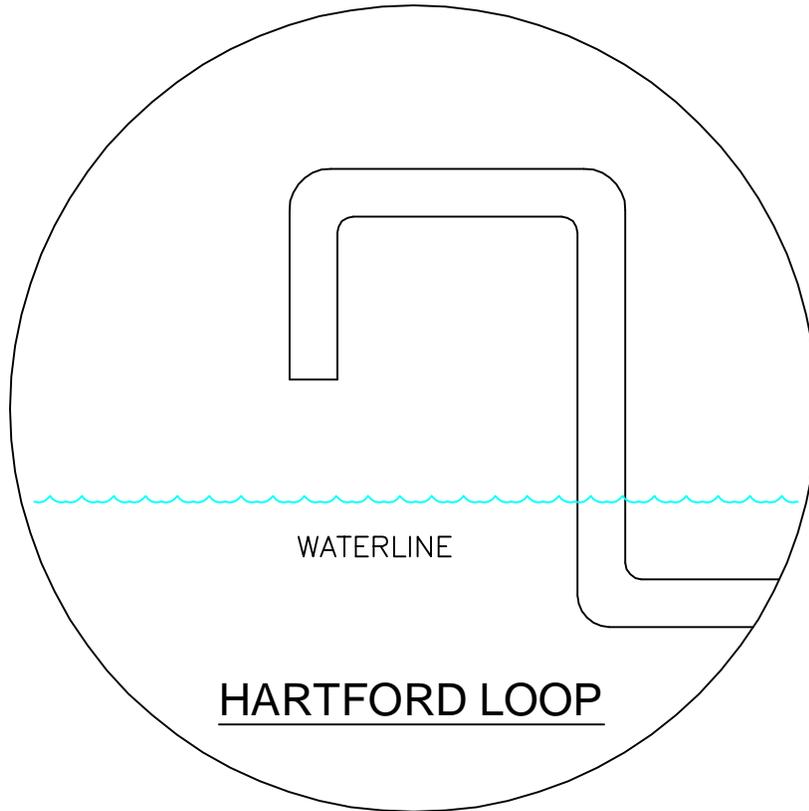
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SCALE 1 1/2" = 1'

DATE 4/9/2007

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SIZE
A

DWG TYPE
HARTFORD LOOP

DWG NO.
PLUMBING DETAILS

REV
0

SCALE

N/A

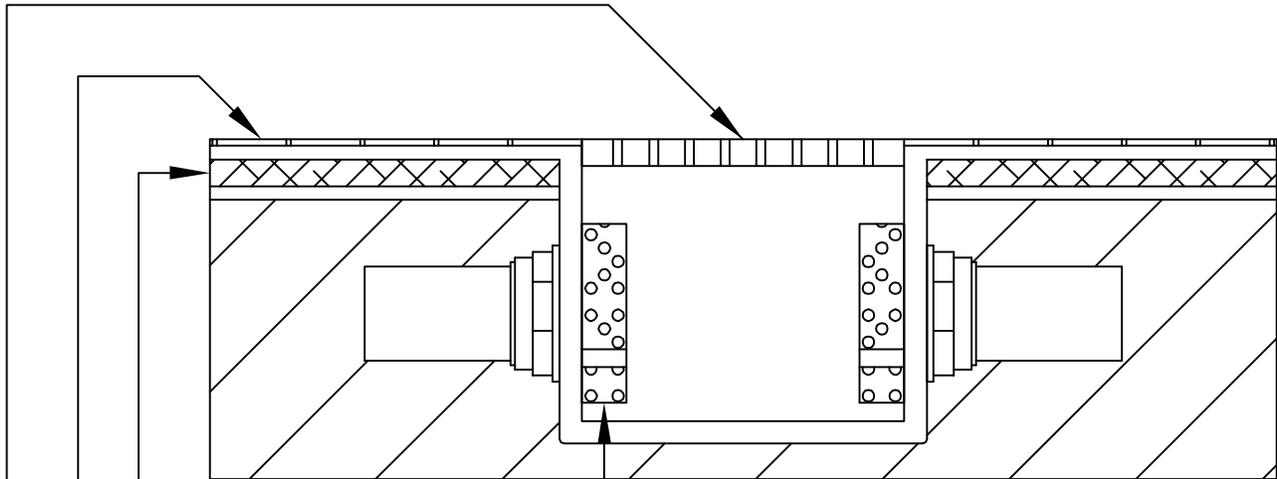
DATE

4/9/2007

SHEET

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SUCTIONS 5" HI-FLOW 8.39 SQ. IN. OPEN AREA (MAX. 4 PER BOX)
 COMPLIES W/ ANSI CODE A112.19

FIBERGLASS SKID: TREATED 4X8 DF, ENCASED IN 1/4" FIBERGLASS

FIBERGLASS SHELL: CORE COMPOSED OF 1' CDX PLYWOOD

TILE

MAIN DRAIN GRATE OPTIONS:

9" X 9" FRAME, 49 INCHES OPEN AREA, 299 GPM @ 1 1/2 FT/SEC

12" X 12" FRAME, 85 INCHES OPEN AREA, 401 GPM @ 1 1/2 FT/SEC

18" X 18" FRAME, 196 INCHES OPEN AREA, 918 GPM @ 1 1/2 FT/SEC

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SIZE
A

DWG TYPE

MAIN DRAIN

DWG NO.

PLUMBING DETAILS

REV

0

SCALE 1 1/2" = 1'

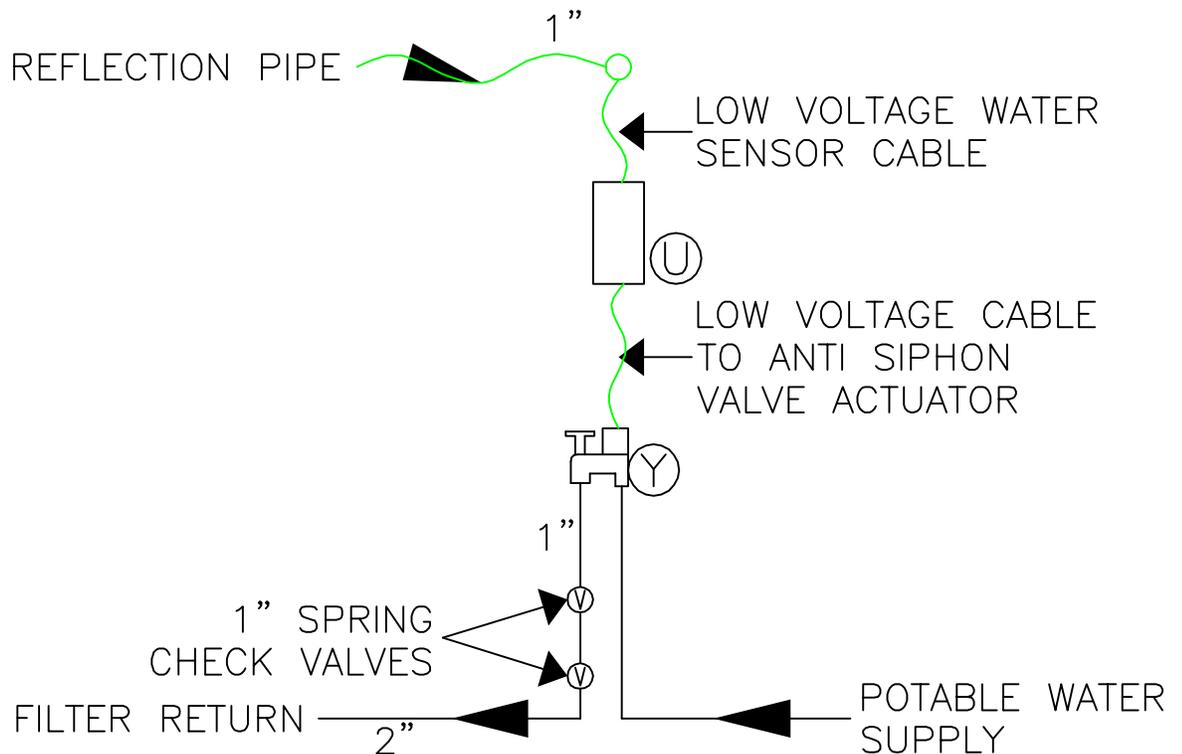
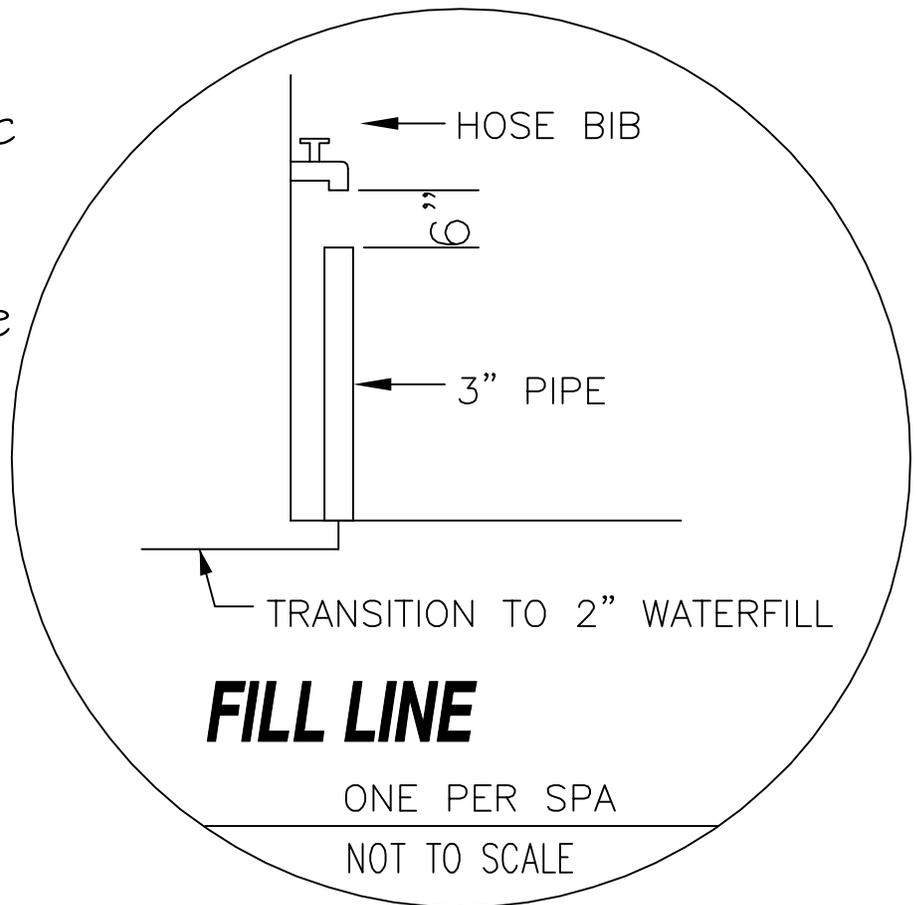
DATE 4/9/2007

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Note:

Conceptual schematic of spa equipment placement. Code and Mechanical compliance to be authorized by engineer.



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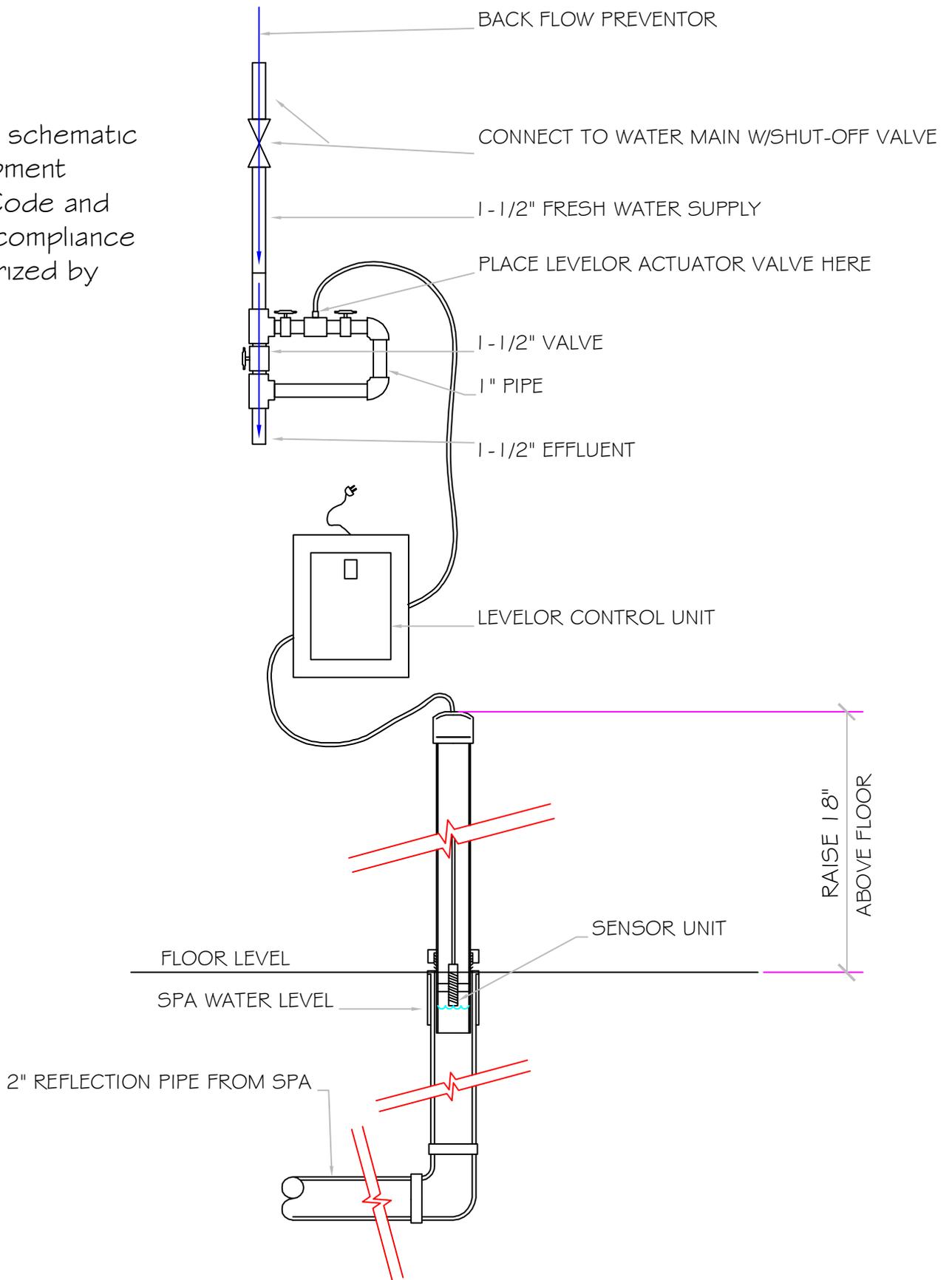


SIZE A	DWG TYPE WATER FILL DETAIL	DWG NO. PLUMBING DETAILS	REV 0
SCALE N/A	DATE 6/20/2007	SHEET PAGE 1 OF 1	

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WATER LEVEL CONTROL

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SIZE
A

DWG TYPE

H2O LEVEL CONTROL

DWG NO.

PLUMBING DETAILS

REV

0

SCALE

N/A

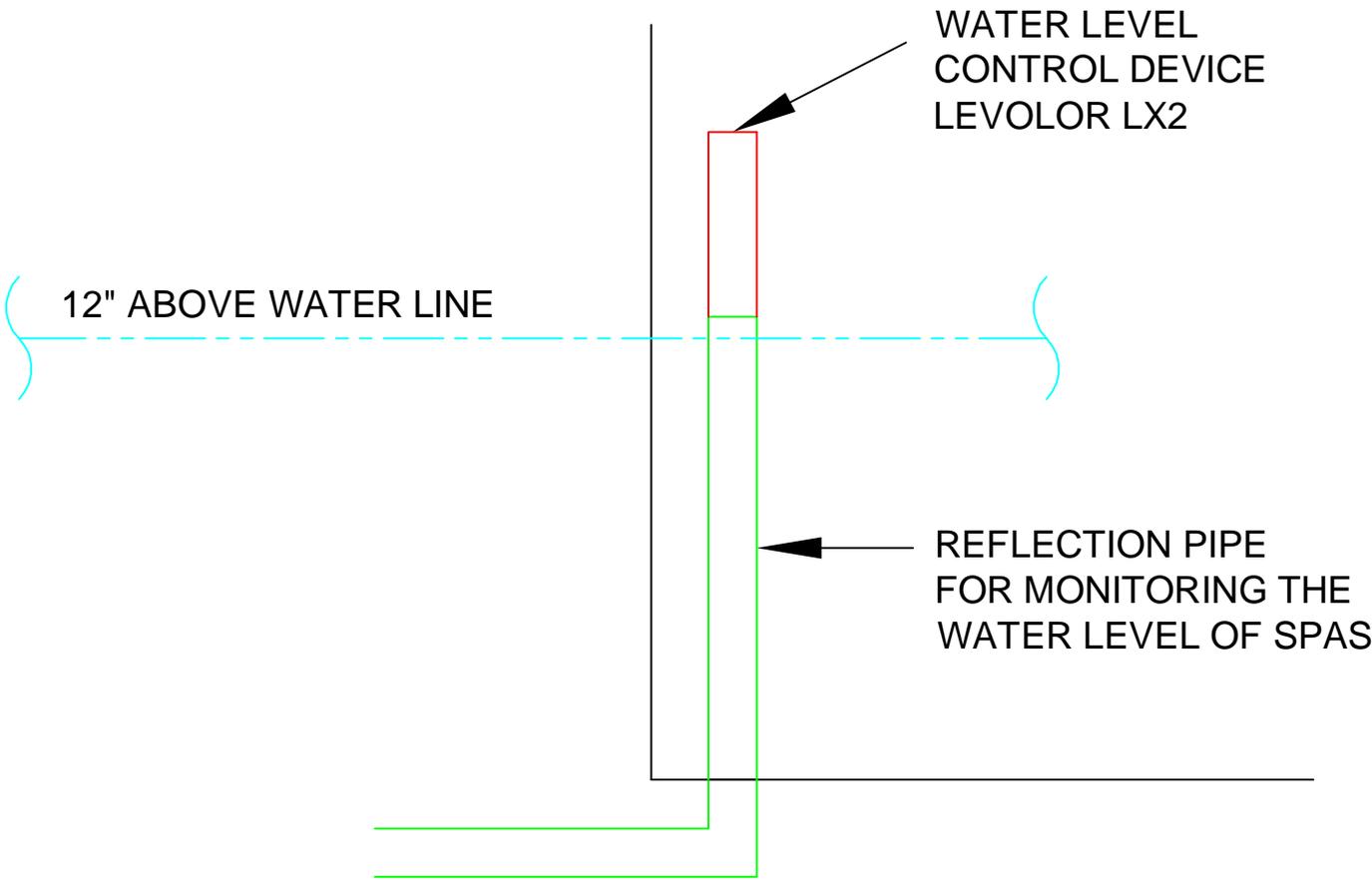
DATE

6/20/2007

SHEET

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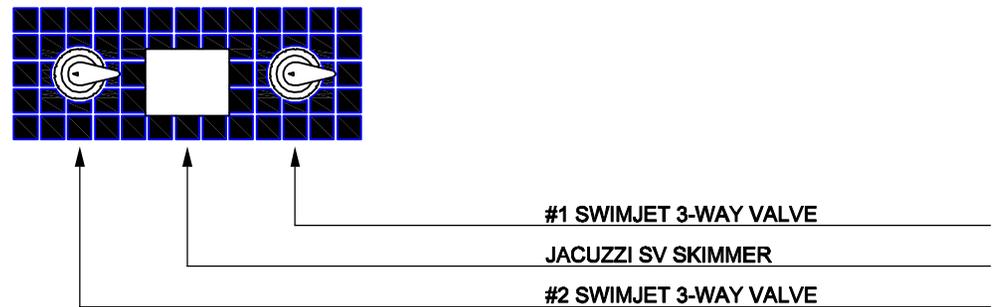
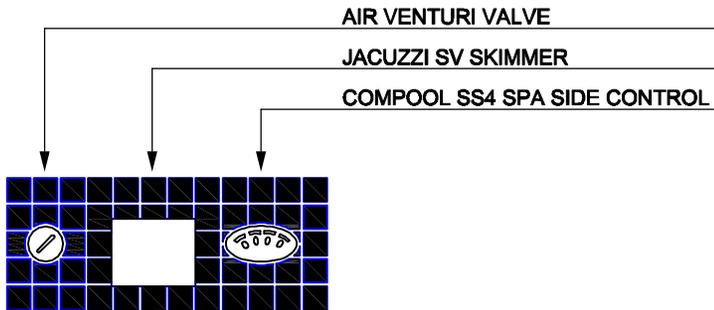
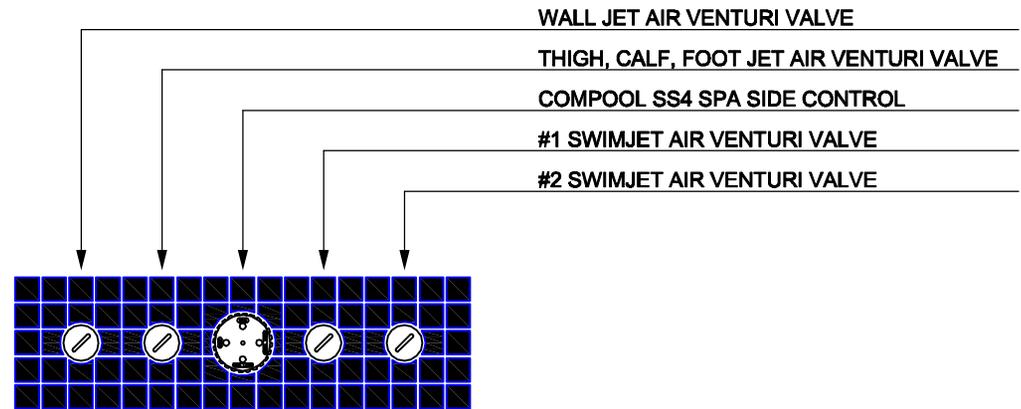
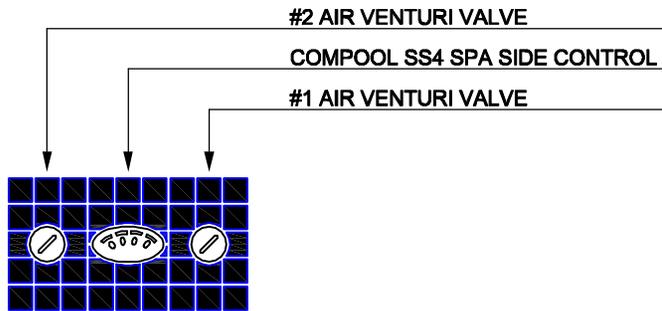
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SIZE A	DWG TYPE H2O LEVEL DETAIL	DWG NO. PLUMBING DETAILS	REV 0
SCALE N/A	DATE 4/9/2007	SHEET PAGE 1 OF 1	

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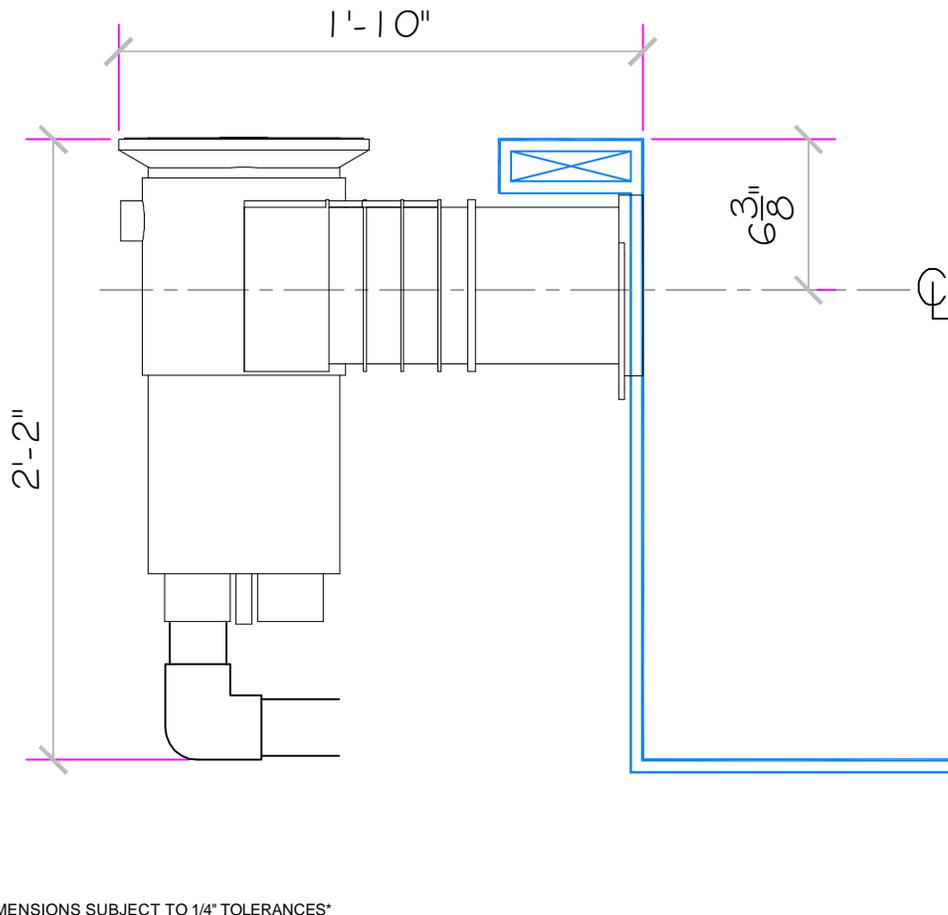
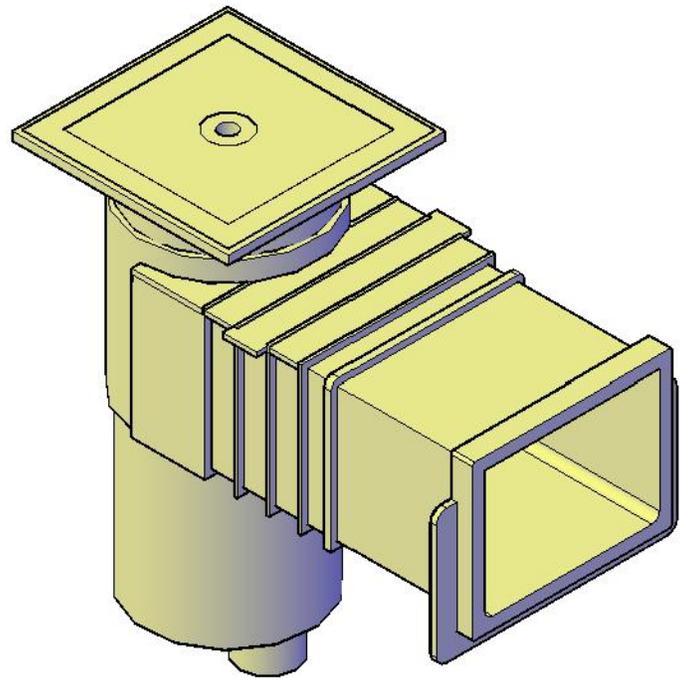
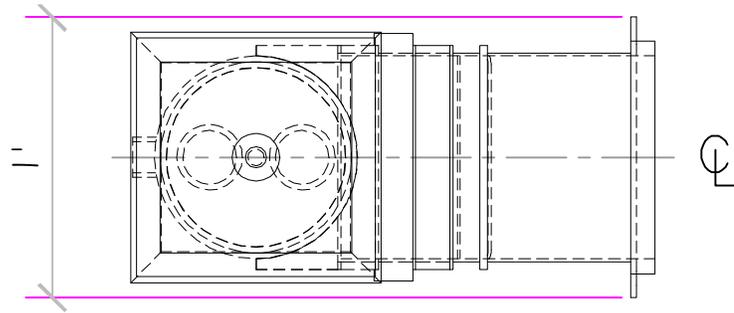
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SIZE A	DWG TYPE WL CONTROLS	DWG NO. PLUMBING DETAILS	REV 0
SCALE N/A	DATE 4/9/2007	SHEET PAGE 1 OF 1	



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SIZE
A

DWG TYPE

SKIMMER

DWG NO.

PLUMBING DETAILS

REV

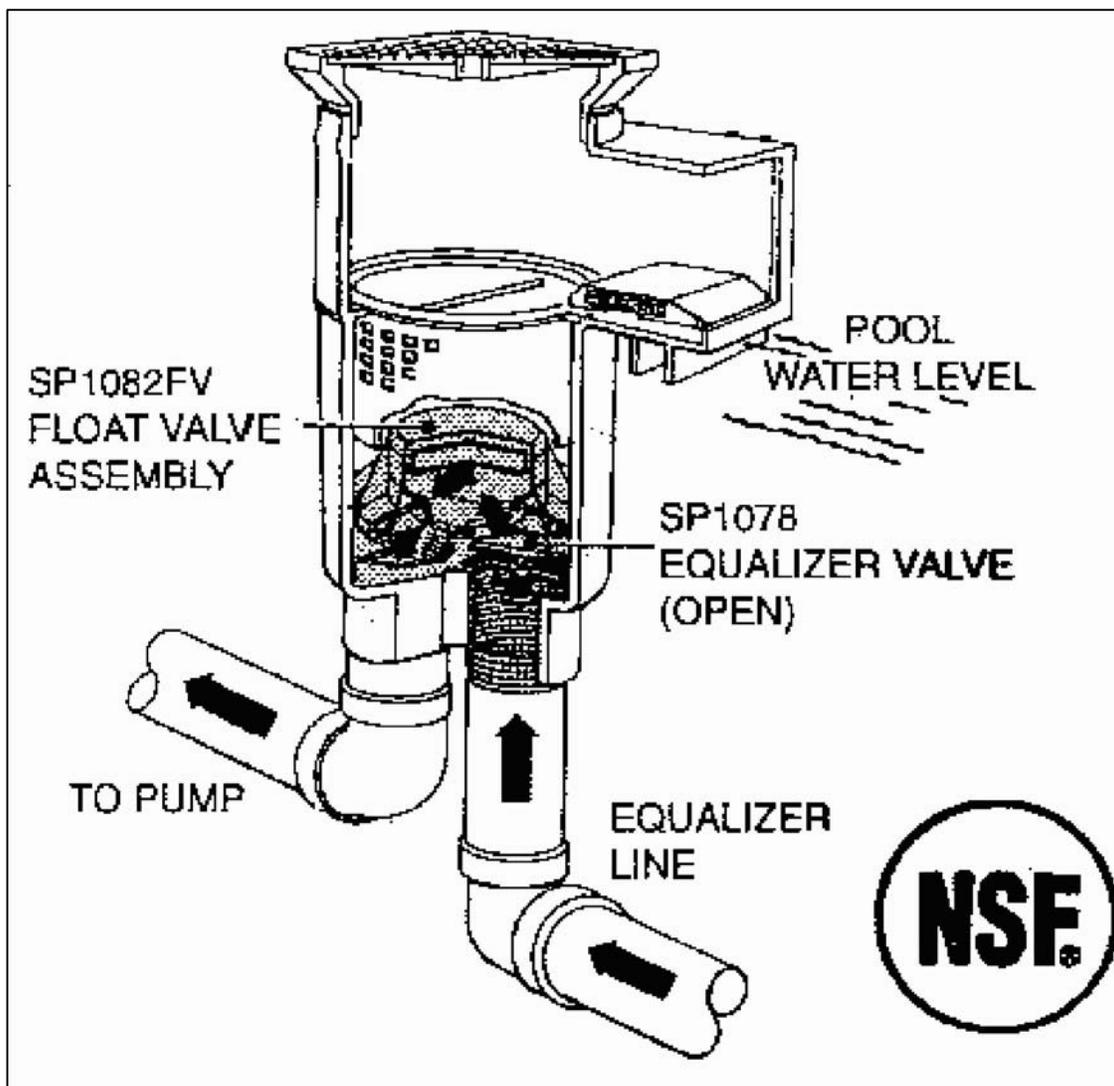
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SCALE 1 1/2" = 1'

DATE 4/9/2007

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SP1084FVE-SKIMMER WITH EQUALIZER VALVE AND FLOAT VALVE ASSEMBLY

A. EQUALIZER-Model SP1078 Equalizer Valve Assembly installs over front port, and is used in conjunction with the SP1082FV Float Valve Assembly. If water level drops below skimmer opening, or if skimmer flow is obstructed, the float will automatically snap shut and the equalizer valve will open. This diverts all flow to the pump from the equalizer line and prevents airlock in the pump- When the pump is shut off, and the water level condition is corrected, the float will rise and the equalizer valve will close, allowing normal skimming operation when the pump is restarted.

B. TO VACUUM Select one convenient skimmer and remove cover. Fill vacuum hose with water and insert onto SP1106 or SP1107 Skim-Vac (not supplied with skimmer) over basket vacuum-plate (not supplied with skimmer). Place Skim-Vac through skimmer opening and over skimmer basket. Turn circulating pump on and proceed with vacuuming. Throttle downflow from other skimmer(s) until desired suction is obtained through vacuum hose.

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SIZE
A

DWG TYPE

SKIMMER (2)

DWG NO.

PLUMBING DETAILS

REV

0

SCALE

N/A

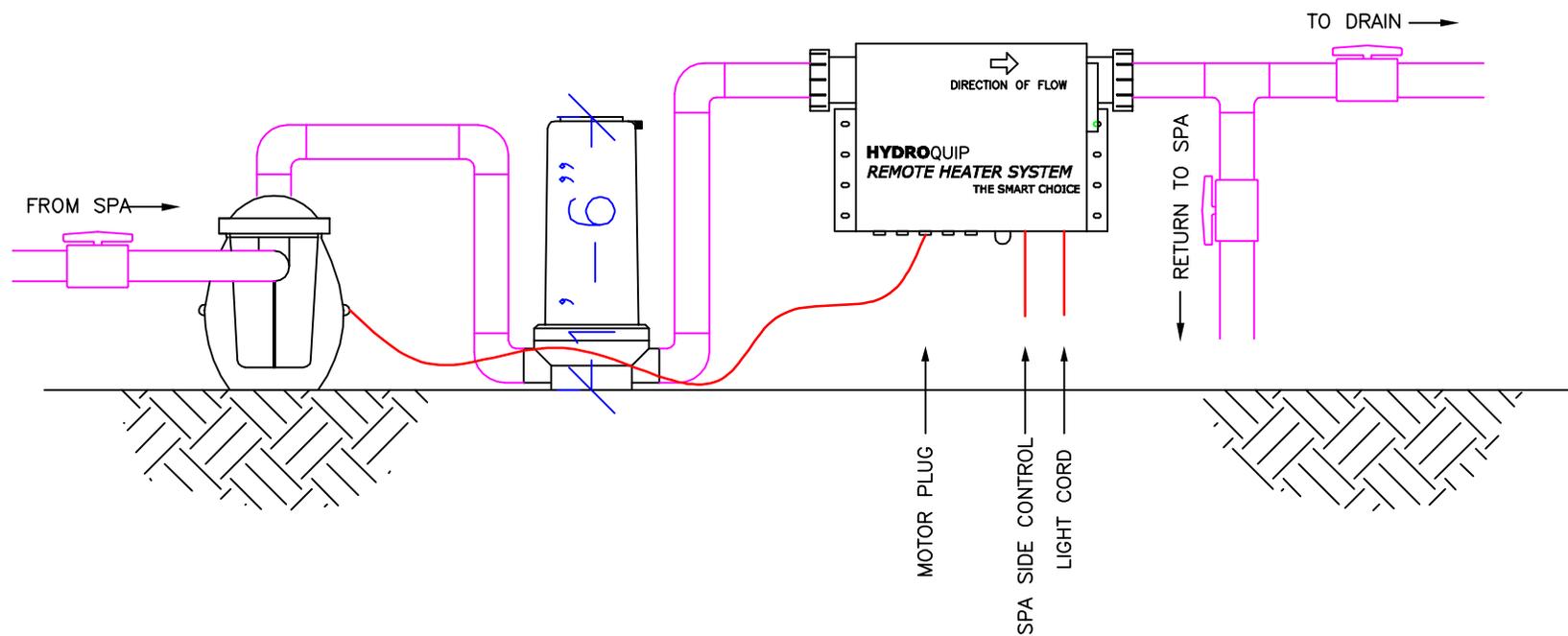
DATE

4/9/2007

SHEET

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SIZE A	DWG TYPE Electric Heater Section	DWG NO. PLUMBING	REV 0
SCALE 1" = 1'		DATE 4/9/2007	SHEET PAGE 1 OF 1

PVC SCHEDULE 40

Pipe Size	6 FPS	8 FPS	10 FPS
1"	16	22	27
1 1/2"	38	51	64
2"	63	84	105
2 1/2"	90	119	149
3"	138	184	230
4"	238	317	397
6"	540	720	900

ALL SPA SUCTION FLOW RATES
MAXIMUM FOR PIPE SIZE

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SIZE
A

DWG TYPE
Pipe Schedule

DWG NO.
PLUMBING DETAILS

REV
0

SCALE N/A

DATE 4/9/2007

SHEET PAGE 1 OF 1

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