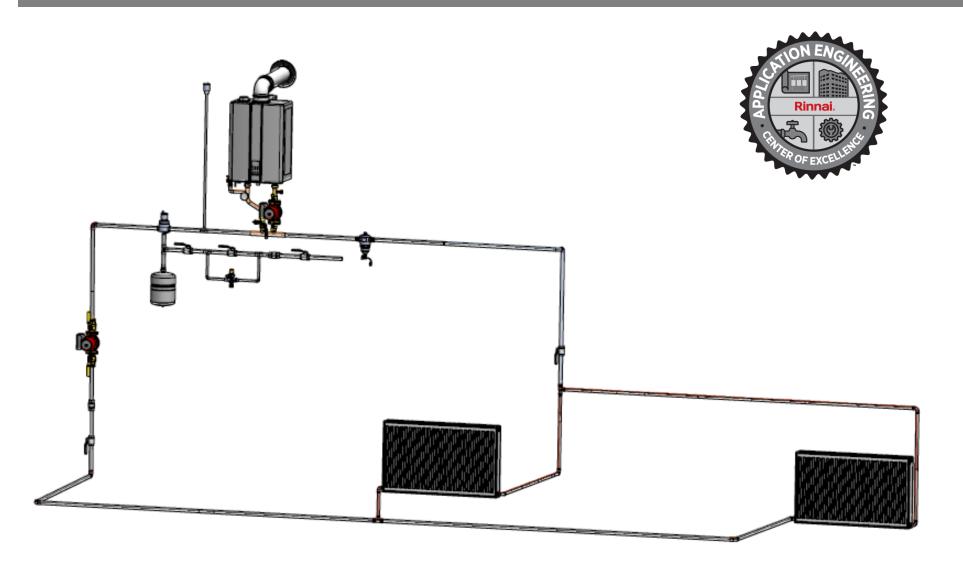
Rinnai_®

I-Series System Application Drawings

For Rinnai I-Series Condensing Boilers



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Overview

About this Document

This document contains application engineering drawings for the Rinnai I-Series Condensing Boiler. For more information on the I-Series Condensing Boiler, visit rinnai.us.

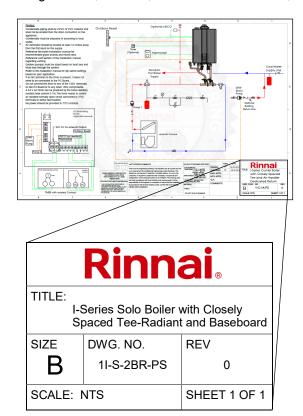
Abbreviations

Listed below are abbreviations used throughout this document.

Α	Air Handler
В	Baseboard
BR	Baseboard and Radiant
ST	Buffer Tank
CR	Cast Iron Radiator
С	Combi
СМ	Crossover Mode
HX	Heat Exchanger
ı	Indirect Tank
LLH	Low Loss Header
XX	Zone Not Specified
0	Oxygen Permeable Piping
PR	Panel Radiator
Р	Pool Heating
PS	Primary/Secondary
R	Radiant
S	Solo
SH	Space Heating
SM	Snow Melt
ZV	Zone Valve

Engineering Drawing Overview

The bottom, right corner of each drawing contains document information such as title, drawing number, revision, total number of sheets, and more.



Contact

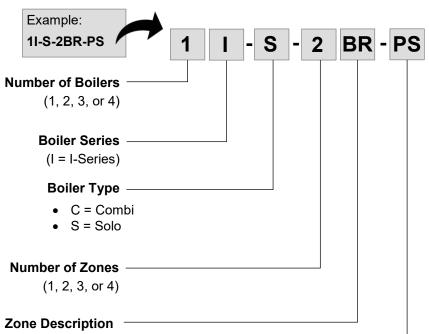
For questions about this document, contact Rinnai's Application Engineering Center of Excellence:

Phone: 1-800-621-9419

E-mail: engineering@rinnai.us

Drawing Number Nomenclature

Boiler Drawing Number

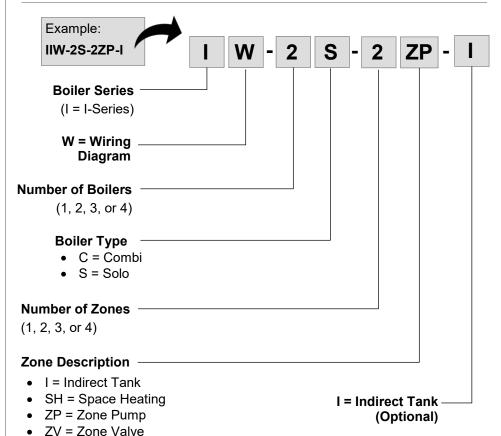


- A = Air Handler B = Baseboard
- BR = Baseboard and Radiant
- CM = Crossover Mode
- CR = Cast Iron Radiator
- HX = Heat Exchanger
- I = Indirect Tank
- O = Oxygen Permeable Piping
- P = Pool Heating
- PR = Panel Radiator
- R = Radiant
- SH = Space Heating
- SM = Snow Melt
- ST = Buffer Tank
- XX = Zone Not Specified
- ZP = Zone Pump
- ZV = Zone Valve

Hydraulic Separation Method

- LLH = Low Loss Header
- PS = Primary/Secondary

Wiring Drawing Number





Condensate piping shall be CPVC or PVC material and shall not be smaller than the drain connection on the appliance.

Condensate must be disposed of according to local codes.

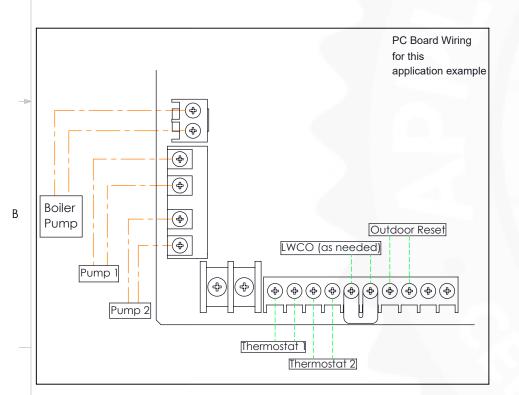
Air eliminator should be located at least 12 inches away from the first bend on the supply.

Reference the boiler installation manual for recommended glycol brands and mixed ratio.

Reference vent section of the installation

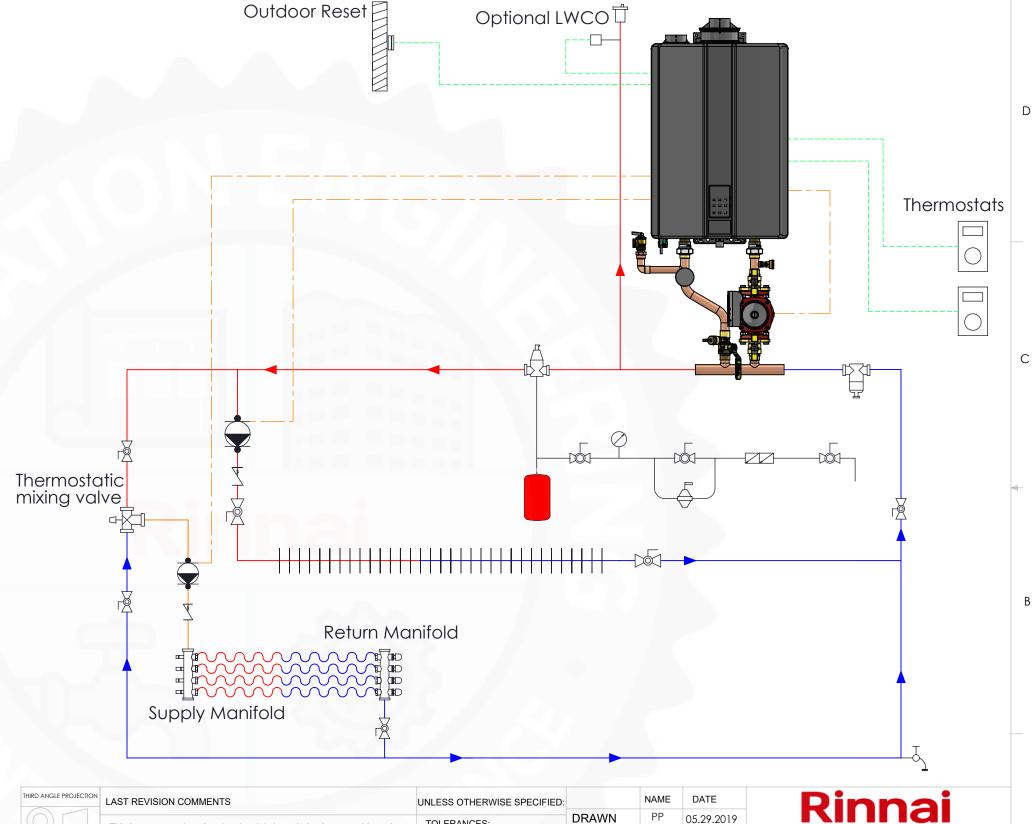
manual regarding venting. The maximum amperage for the boiler

pump is 2 Amps. System pump(s) must be sized based on heat loss and head loss through the system.



Boiler Pump Recommendation:

0.01 -1	Pump Model				
Model	Grundfos	Taco	Bell & Gossett	Armstrong	
i060S	UPS 15-42	007-IFC	NRF-25	ASTRO 230CI	
i090S	UPS 15-42	007-IFC	NRF-25	ASTRO 230CI	
i120S	UPS 15-58	008-IFC	NRF-25	ASTRO 230CI	
i150S	UPS 26-99	0011-IFC	N/A	ASTRO 280CI	



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DRAWN TOLERANCES: Sheet Metal X.XX = ±0.030 X.XXX = ±0.010 Fraction = ±1/32 Angle = ±1.0° MACHINED X.XXX = ±0.005 CHECKED ENG APPR. MFG APPR. Angle = $\pm 0.010^{\circ}$ INTERPRET GEOMETRIC TOLERANCING PER: Q.A. COMMENTS:

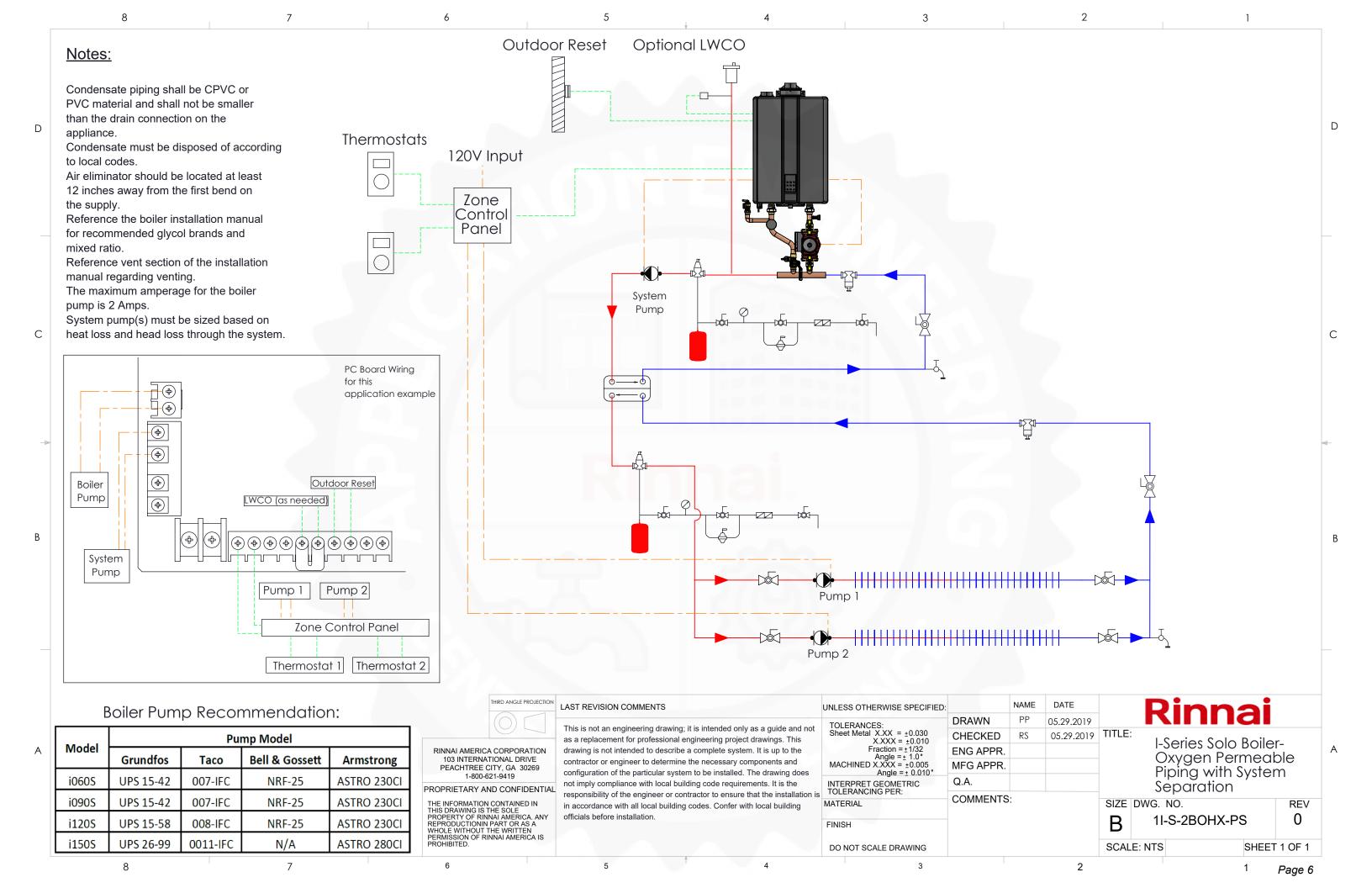
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05.29.2019 05.29.2019 TITLE:

I-Series Solo Boiler with Closely Spaced Tee - Radiant and Baseboard

SIZE DWG. NO.

REV 0 1I-S-2BR-PS SCALE: NTS SHEET 1 OF 1



Notes:

Condensate piping shall be CPVC or PVC material and shall not be smaller than the drain connection on the appliance.

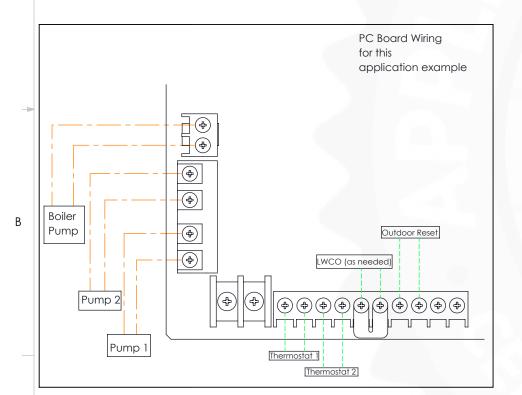
Condensate must be disposed of according to local codes.

Air eliminator should be located at least 12 inches away from the first bend on the supply.

Reference the boiler installation manual for recommended glycol brands and mixed ratio.

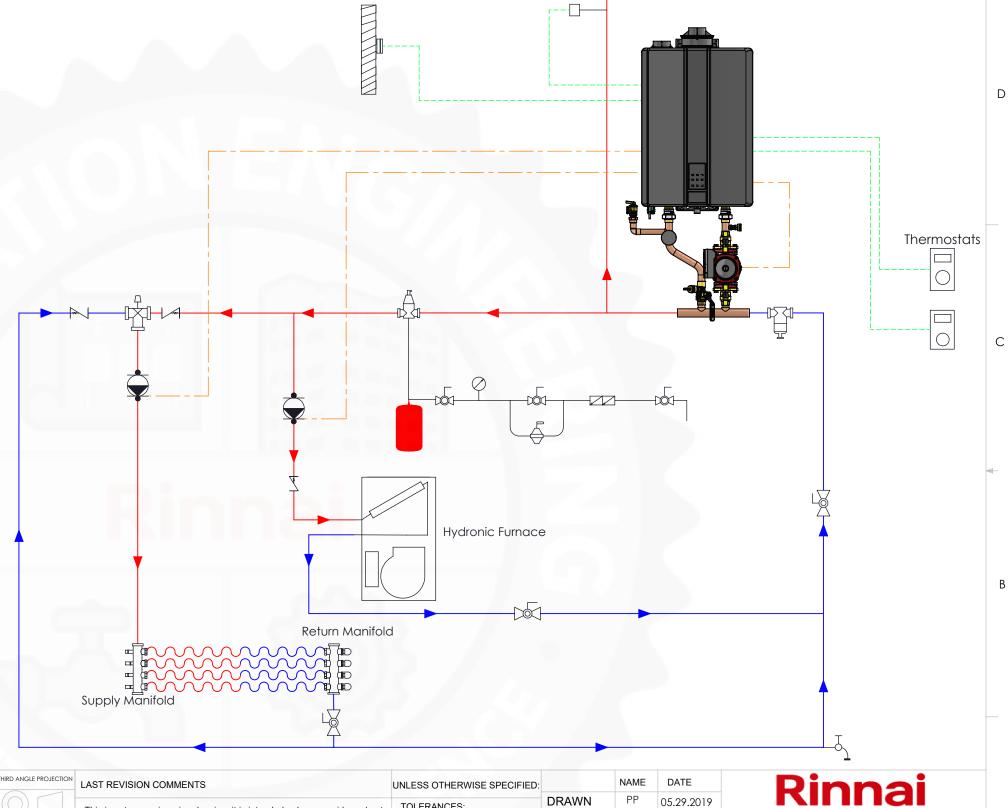
Reference vent section of the installation manual regarding venting.

The maximum amperage for the boiler pump is 2 Amps.



Boiler Pump Recommendation:

_					
0.0 -			Pui	mp Model	
L	Model	Grundfos	Taco	Bell & Gossett	Armstrong
	i060S	UPS 15-42	007-IFC	NRF-25	ASTRO 230CI
I	i090S	UPS 15-42	007-IFC	NRF-25	ASTRO 230CI
	i120S	UPS 15-58	008-IFC	NRF-25	ASTRO 230CI
	i150S	UPS 26-99	0011-IFC	N/A	ASTRO 280CI



Optional LWCO

Outdoor Reset

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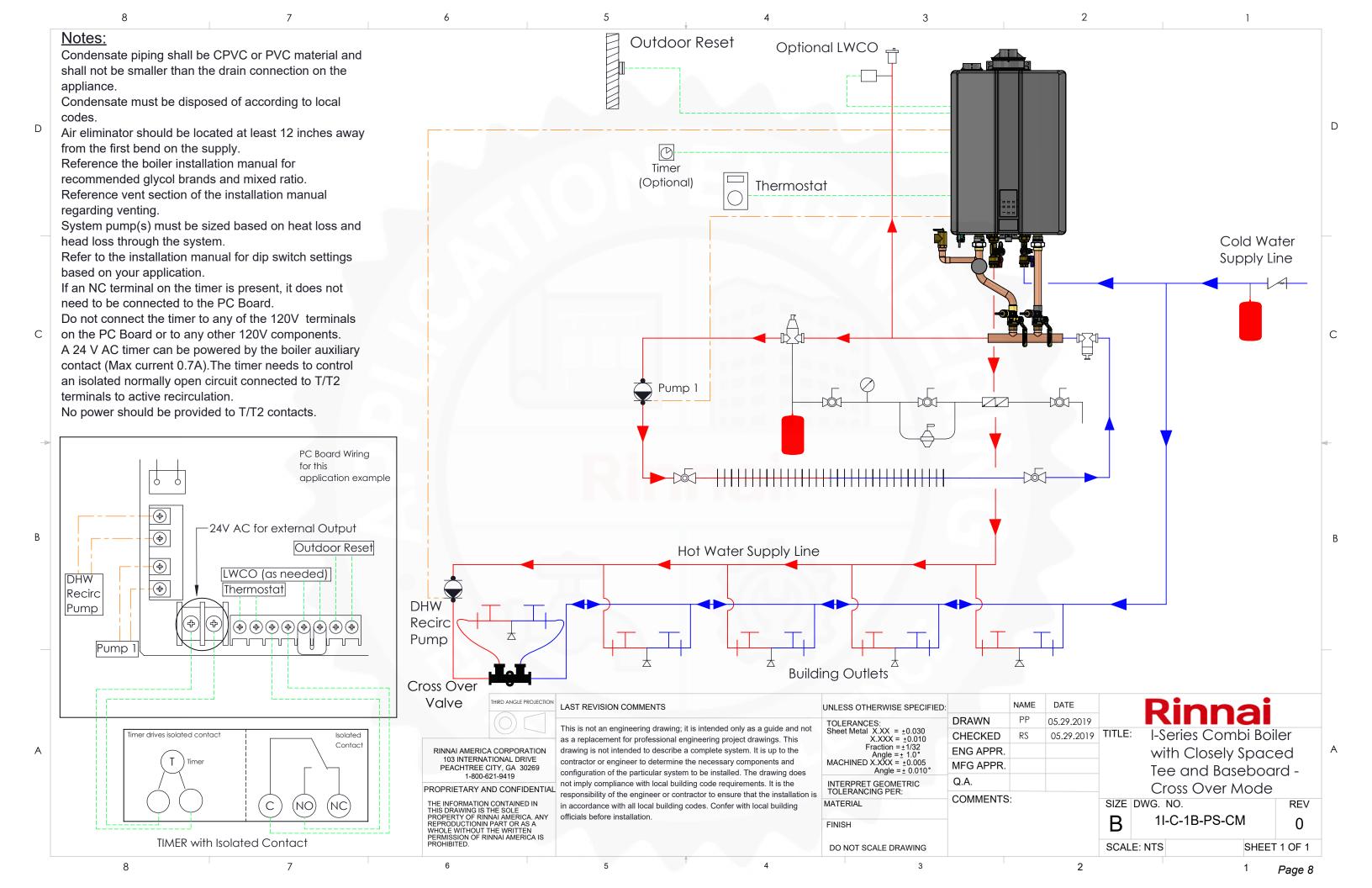
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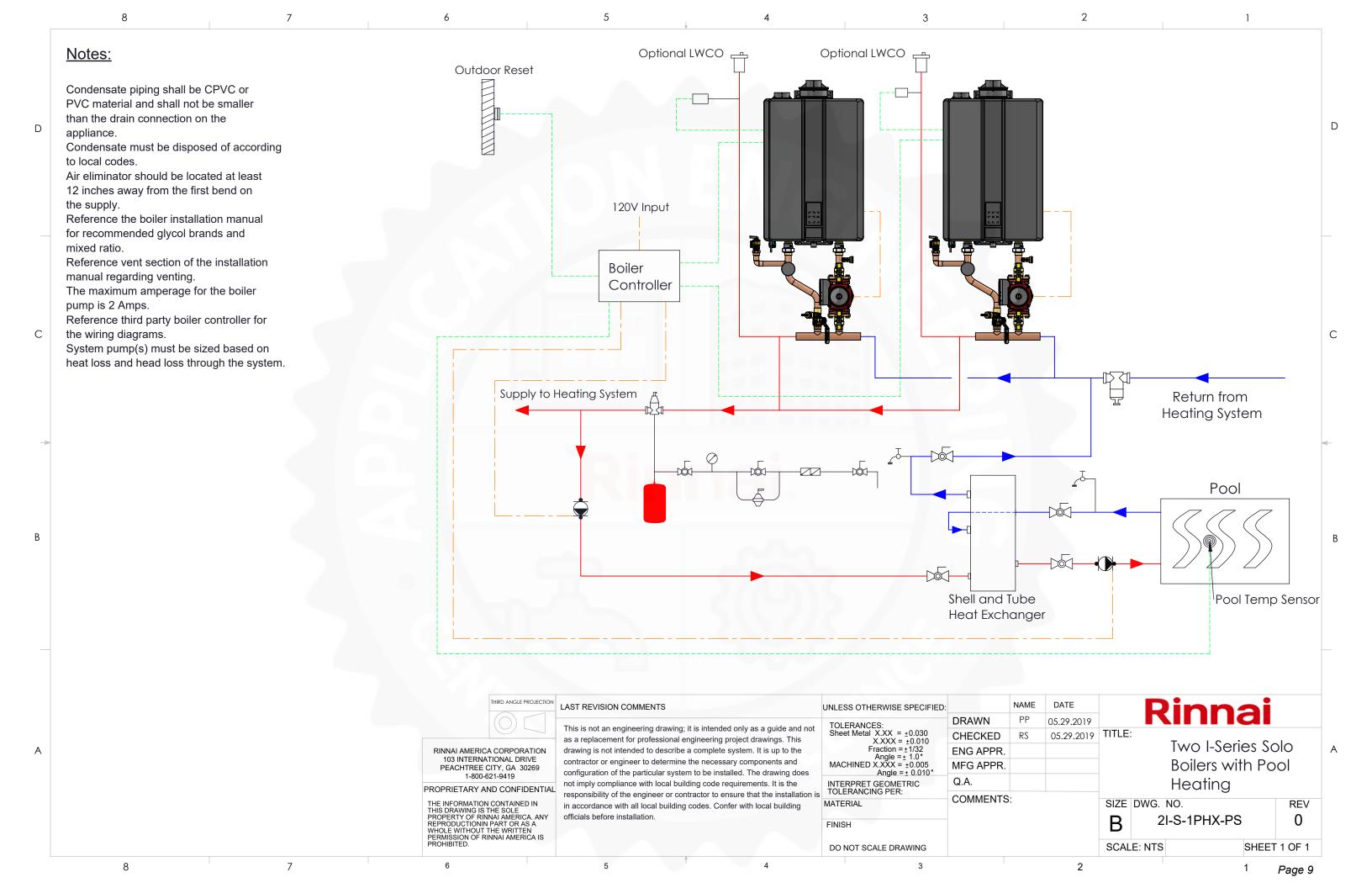
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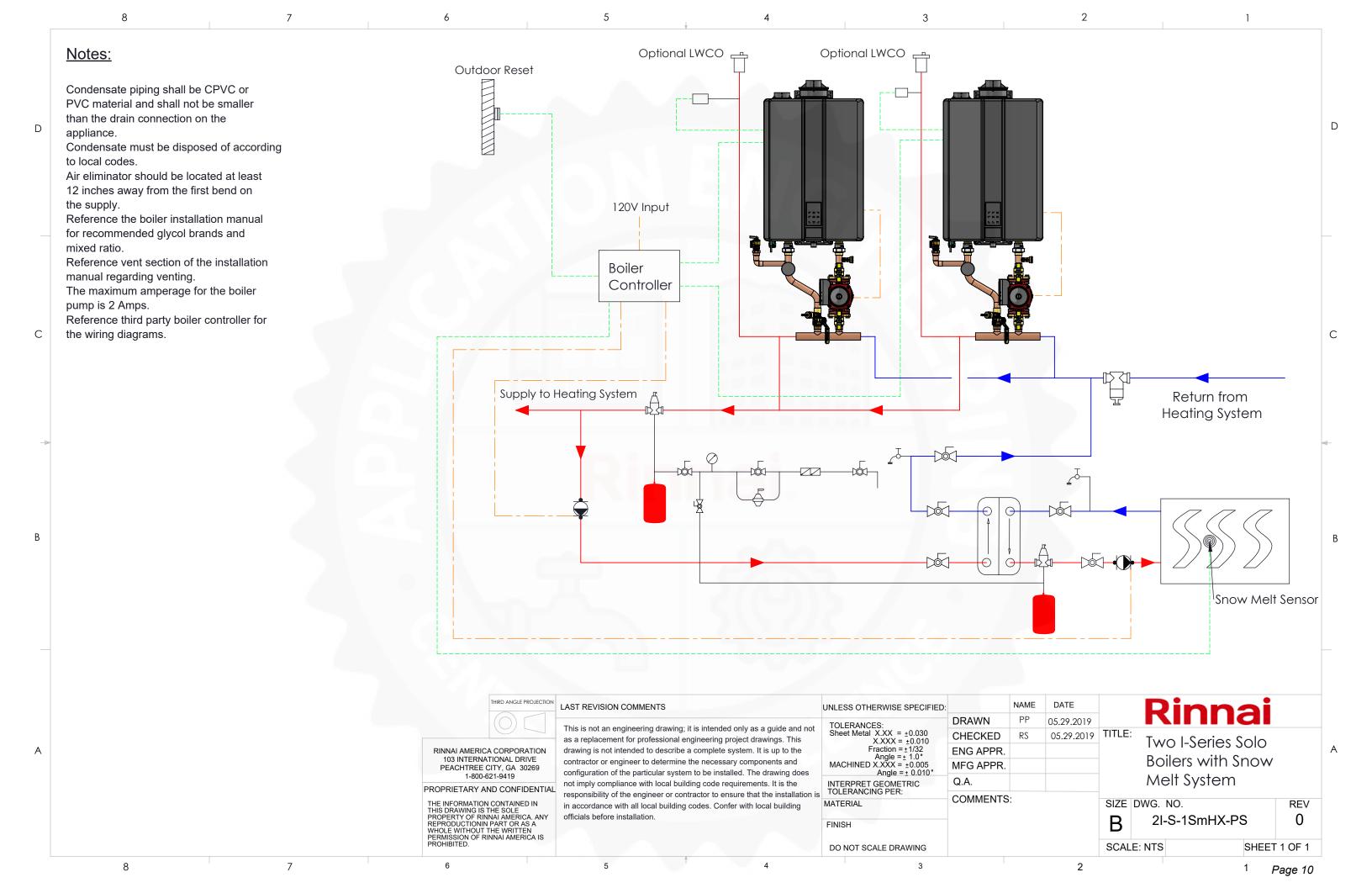
I-Series Solo Boiler with Closely Spaced Tee - Air Handler and Radiant Floor Heating

SIZE DWG. NO.

REV 1I-S-2AR-PS SCALE: NTS SHEET 1 OF 1









Condensate piping shall be CPVC or PVC material and shall not be smaller than the drain connection on the appliance.

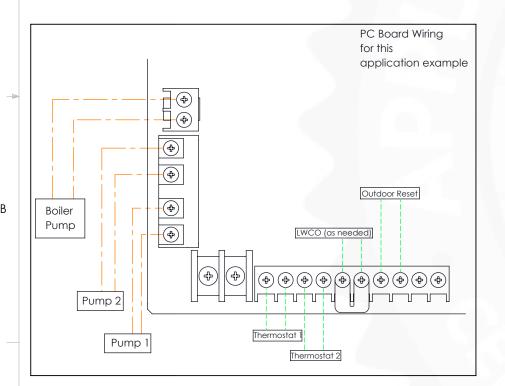
Condensate must be disposed of according to local codes.

Air eliminator should be located at least 12 inches away from the first bend on the supply.

Reference the boiler installation manual for recommended glycol brands and mixed ratio.

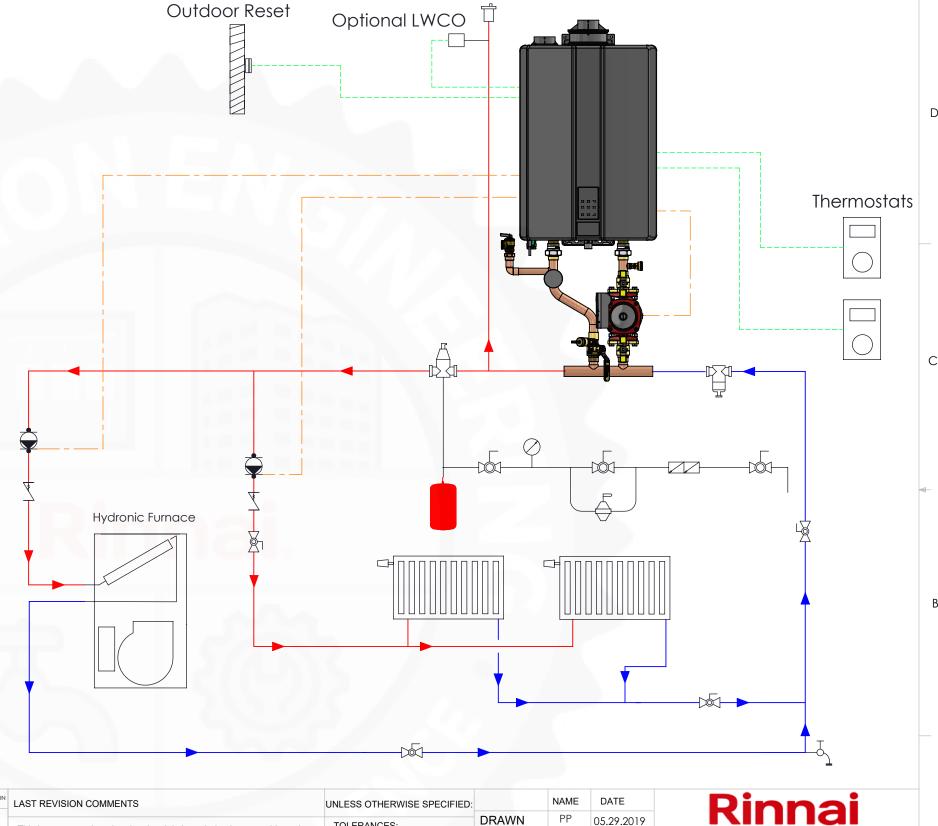
Reference vent section of the installation manual regarding venting.

The maximum amperage for the boiler pump is 2 Amps.



Boiler Pump Recommendation:

	Pump Model			
Model	Grundfos	Taco	Bell & Gossett	Armstrong
i060S	UPS 15-42	007-IFC	NRF-25	ASTRO 230CI
i090S	UPS 15-42	007-IFC	NRF-25	ASTRO 230CI
i120S	UPS 15-58	008-IFC	NRF-25	ASTRO 230CI
i150S	UPS 26-99	0011-IFC	N/A	ASTRO 280CI



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TOLERANCES:
Sheet Metal X.XX = ±0.030
X.XXX = ±0.010
Fraction = ±1/32
Angle = ± 1.0°
MACHINED X.XXX = ±0.005
Angle = ± 0.010°
INTERPRET GEOMETRIC
TOLERANCING PER:
MATERIAL

FINISH

DRAWN
CHECKED
ENG APPR.
MFG APPR.
Q.A.
COMMENTS:

DO NOT SCALE DRAWING

RAWN PP 05.29.2019
HECKED RS 05.29.2019
NG APPR.
IFG APPR.

A.A.

I-Series Solo Boiler with Closely Spaced Tee - Air Handler

and Panel Radiator
SIZE DWG. NO.

SCALE: NTS

B 1I-S-2APR-PS

7

Page 11

SHEET 1 OF 1

REV

0



Condensate piping shall be CPVC or PVC material and shall not be smaller than the drain connection on the appliance.

Condensate must be disposed of according to local codes.

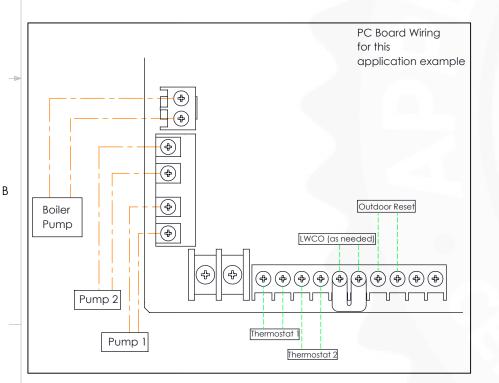
Air eliminator should be located at least 12 inches away from the first bend on the supply.

Reference the boiler installation manual for recommended glycol brands and mixed ratio.

Reference vent section of the installation manual regarding venting.

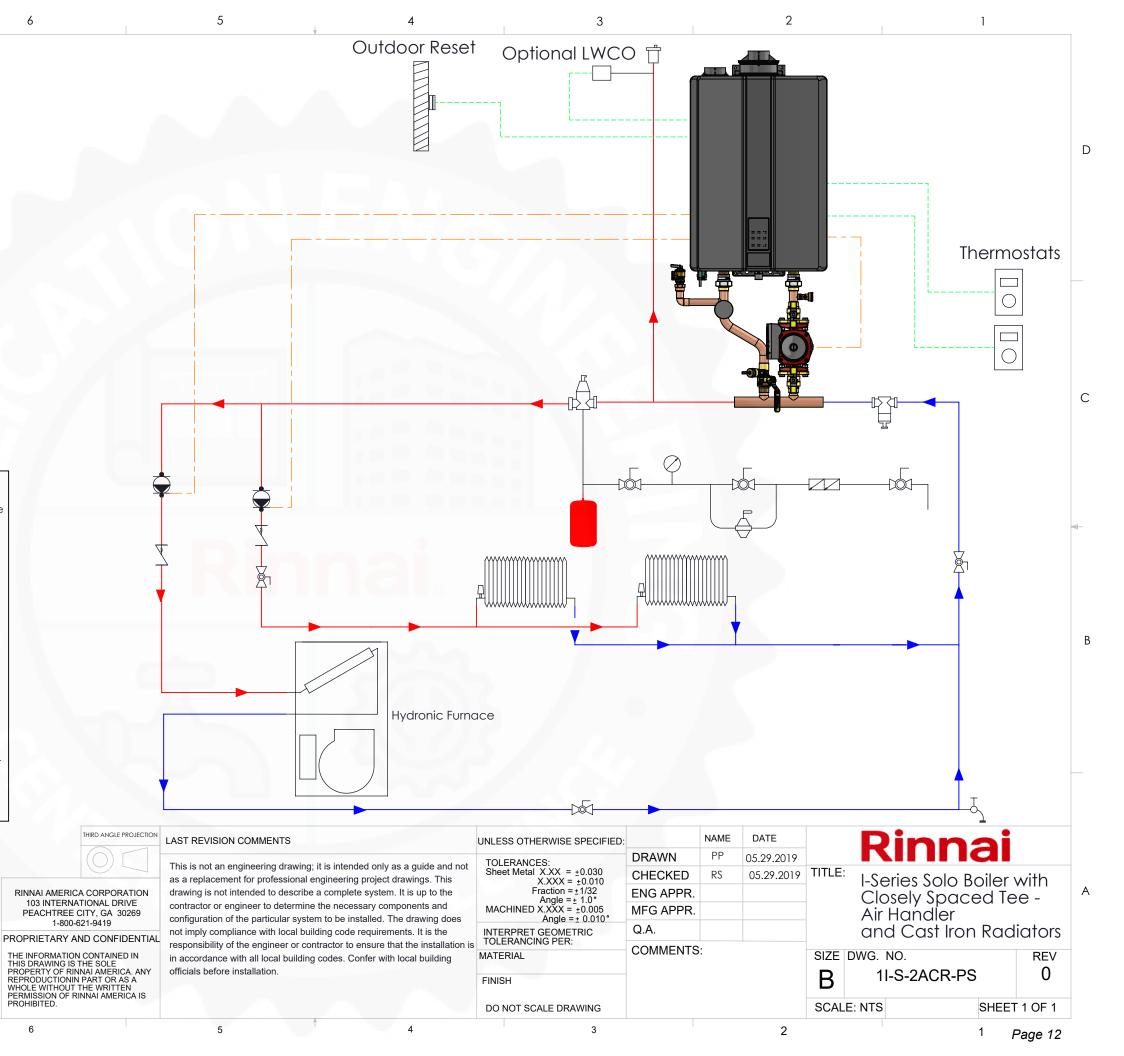
The maximum amperage for the boiler pump is 2 Amps.

System pump(s) must be sized based on heat loss and head loss through the system.



Boiler Pump Recommendation:

Madal	Pump Model			
Model	Grundfos	Taco	Bell & Gossett	Armstrong
i060S	UPS 15-42	007-IFC	NRF-25	ASTRO 230CI
i090S	UPS 15-42	007-IFC	NRF-25	ASTRO 230CI
i120S	UPS 15-58	008-IFC	NRF-25	ASTRO 230CI
i150S	UPS 26-99	0011-IFC	N/A	ASTRO 280CI



from the first bend on the supply.

Reference the boiler installation manual for recommended glycol brands and mixed ratio.

Reference vent section of the installation manual regarding venting.

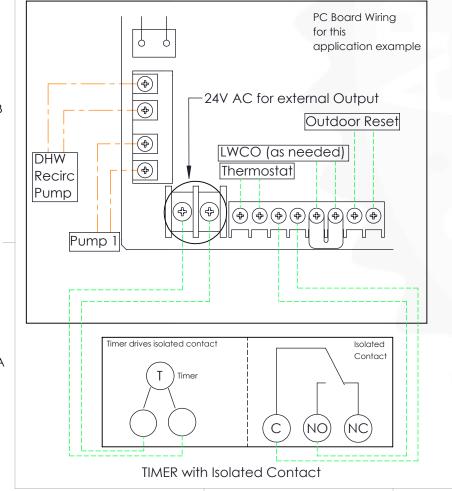
System pump(s) must be sized based on heat loss and head loss through the system.

Refer to the installation manual for dip switch settings based on your application.

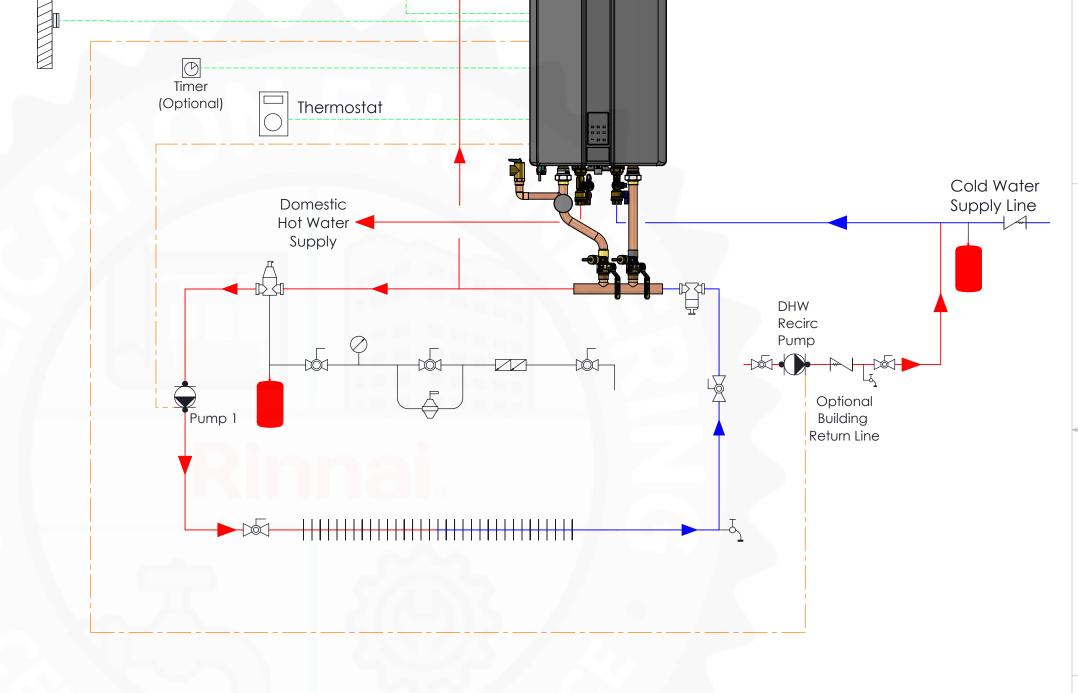
If an NC terminal on the timer is present, it does not need to be connected to the PC Board.

Do not connect the timer to any of the 120V terminals on the PC Board or to any other 120V components. A 24 V AC timer can be powered by the boiler auxiliary contact (Max current 0.7A). The timer needs to control an isolated normally open circuit connected to T/T2 terminals to active recirculation.

No power should be provided to T/T2 contacts.



8



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NAME DATE UNLESS OTHERWISE SPECIFIED: **DRAWN** 05.29.2019 05.29.2019 TITLE: CHECKED ENG APPR. MFG APPR. Q.A. COMMENTS:

I-Series Combi Boiler with Closely Spaced Tee and Baseboard -

Dedicated Return SIZE DWG. NO.

1I-C-1B-PS

SHEET 1 OF 1

REV

0

Page 13

Angle = ± 0.010

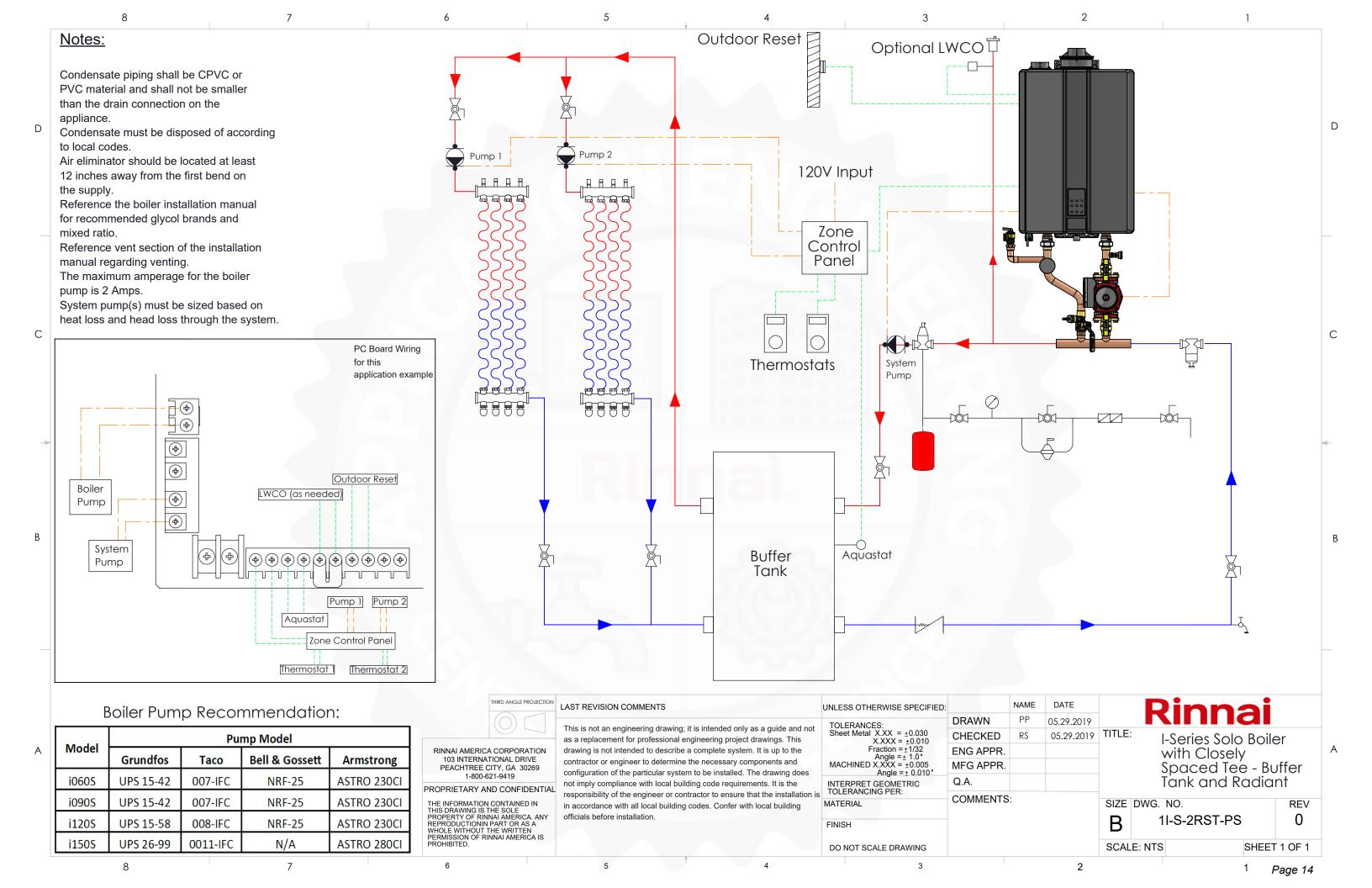
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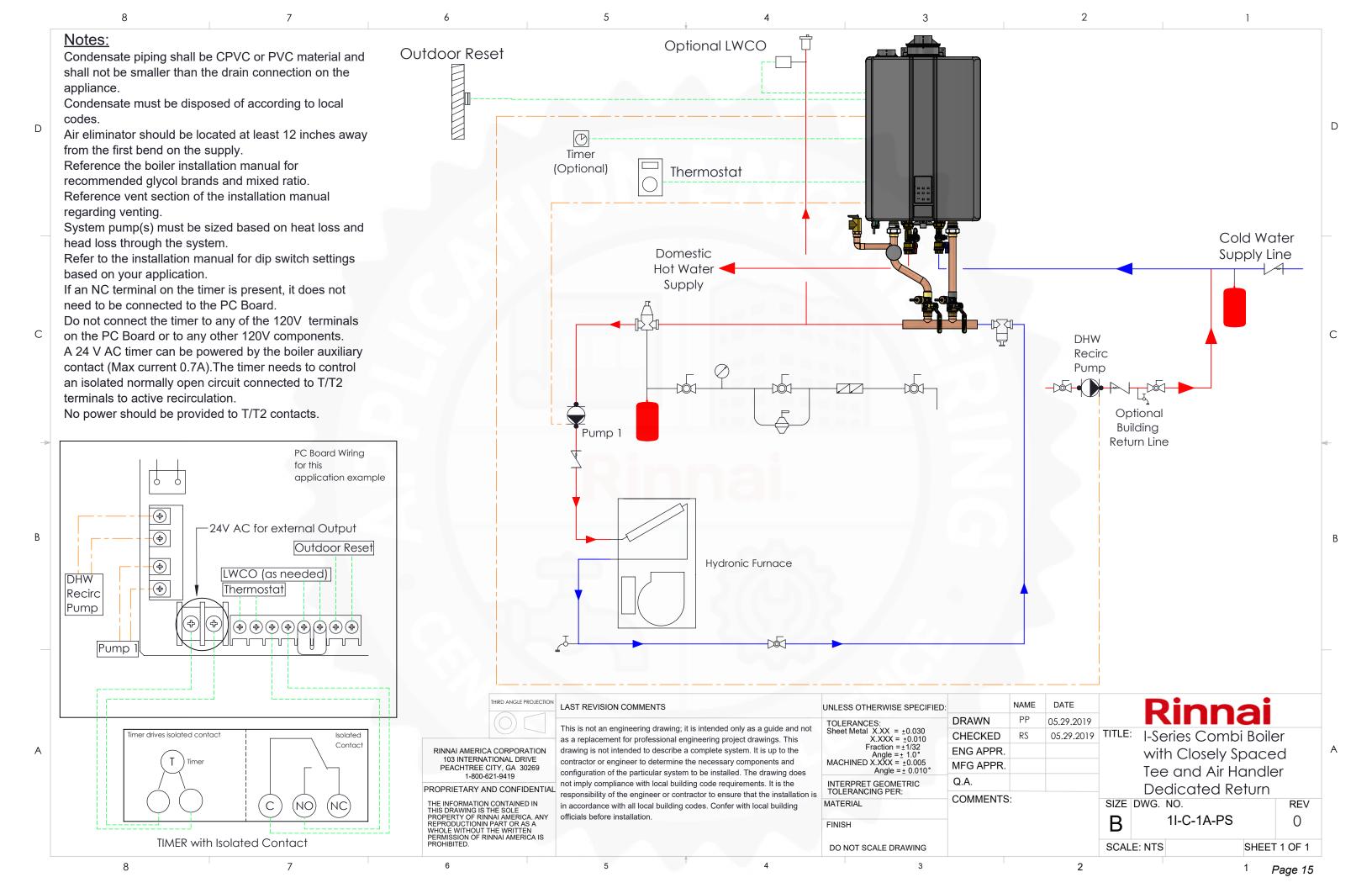
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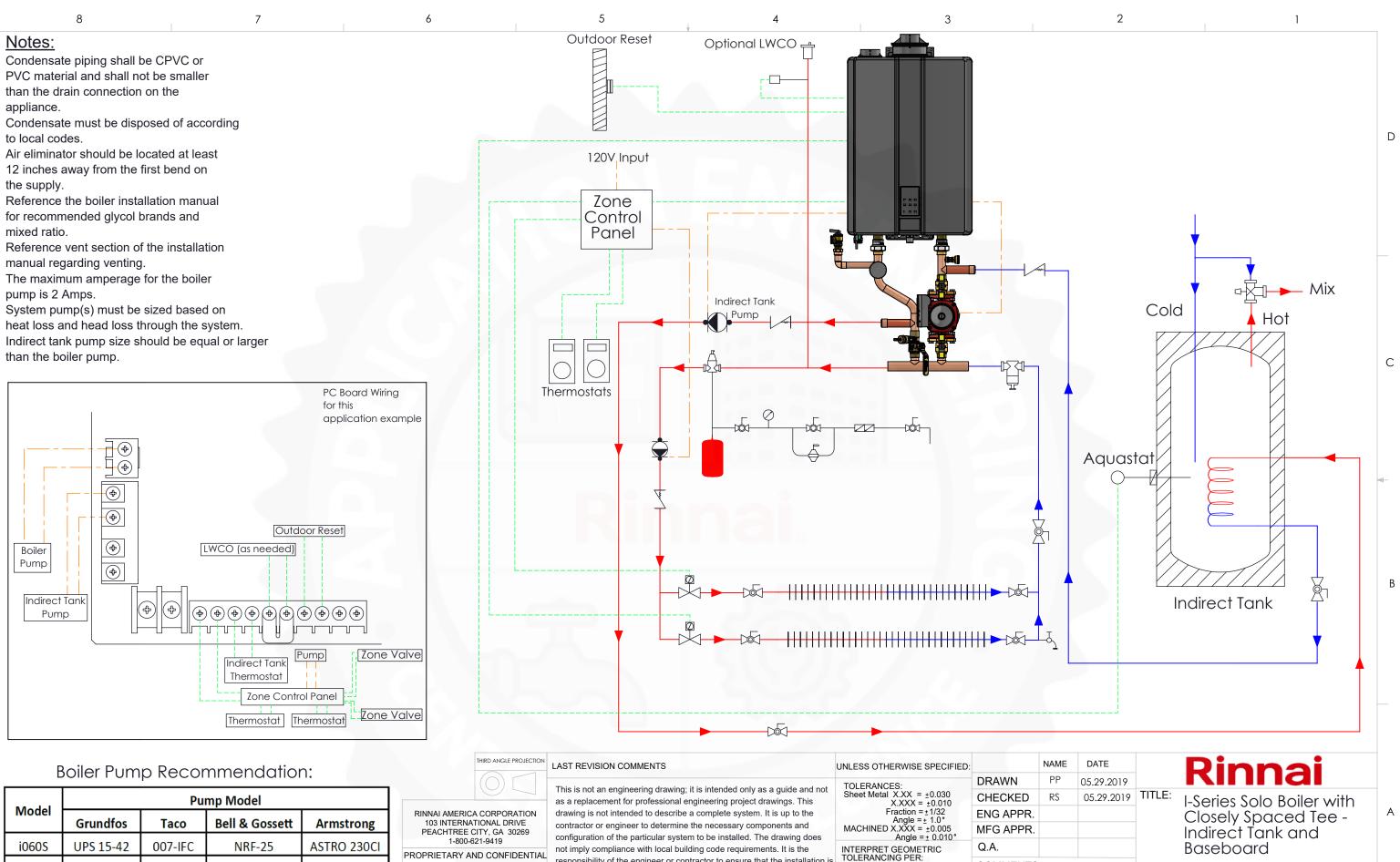
DO NOT SCALE DRAWING

SCALE: NTS

2







Madal	Pump Model			
Model	Grundfos	Taco	Bell & Gossett	Armstrong
i060S	UPS 15-42	007-IFC	NRF-25	ASTRO 230CI
i090S	i090S UPS 15-42	007-IFC	NRF-25	ASTRO 230CI
i120S	UPS 15-58	008-IFC	NRF-25	ASTRO 230CI
i150S	UPS 26-99	0011-IFC	N/A	ASTRO 280CI

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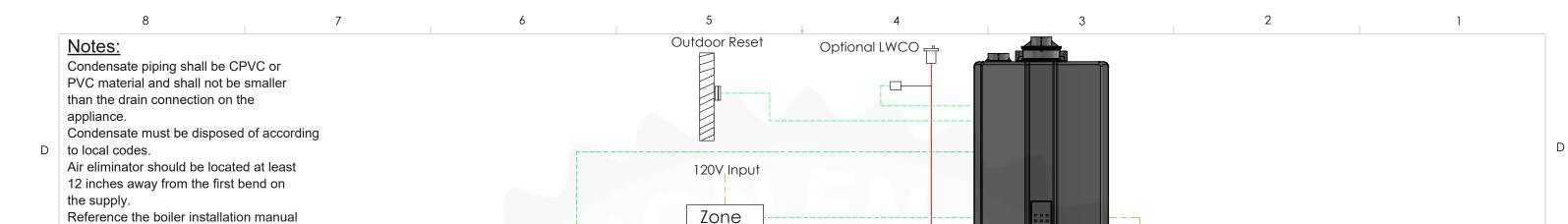
not imply compliance with local building code requirements. It is the responsibility of the engineer or contractor to ensure that the installation is MATERIAL in accordance with all local building codes. Confer with local building officials before installation. FINISH

Q.A. COMMENTS:

DO NOT SCALE DRAWING

Baseboard

SIZE DWG. NO. REV 1I-S-3BI-PS 0 SCALE: NTS SHEET 2 OF 2



Indirect Tank

— Mix

Hot

Indirect Tank

Rinnai

Indirect Tank and

1I-S-2BI-PS

Baseboard

SIZE DWG. NO.

SCALE: NTS

I-Series Solo Boiler with

REV

0

SHEET 2 OF 2

Page 17

Closely Spaced Tee -

Cold

Aauastat

NAME

DRAWN

CHECKED

ENG APPR.

MFG APPR.

COMMENTS:

Q.A.

UNLESS OTHERWISE SPECIFIED:

Sheet Metal X.XX = ±0.030 X.XXX = ±0.010

Fraction = ±1/32 Angle = ± 1.0° MACHINED X.XXX = ±0.005

INTERPRET GEOMETRIC TOLERANCING PER:

DO NOT SCALE DRAWING

Angle = $\pm 0.010^{\circ}$

TOLERANCES:

MATERIAL

FINISH

DATE

05.29.2019

05.29.2019 TITLE:

Control

Panel

LAST REVISION COMMENTS

officials before installation.

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PEACHTREE CITY, GA 30269

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in accordance with all local building codes. Confer with local building

configuration of the particular system to be installed. The drawing does

responsibility of the engineer or contractor to ensure that the installation is

Thermostat

for recommended glycol brands and

manual regarding venting.

Reference vent section of the installation

System pump(s) must be sized based on

heat loss and head loss through the system. Indirect tank pump size should be equal or larger

•

(

4

4

4

Grundfos

UPS 15-42

UPS 15-42

UPS 15-58

UPS 26-99

8

PC Board Wiring

application example

for this

Outdoor Reset

Pump

Zone Valve

Armstrong

ASTRO 230CI

ASTRO 230CI

ASTRO 230CI

ASTRO 280CI

Zone Control Panel

LWCO (as needed)

Indirect Tank Thermostat

Thermostat

Bell & Gossett

NRF-25

NRF-25

NRF-25

N/A

Pump Model

Boiler Pump Recommendation:

Taco

007-IFC

007-IFC

008-IFC

0011-IFC

The maximum amperage for the boiler

mixed ratio.

Boiler Pump

Model

i060S

i090S

i120S

i150S

Indirect Tank

Pump

pump is 2 Amps.

than the boiler pump.



120V Input

Zone

Control

Panel

Thermostats

Indirect Tank

PVC material and shall not be smaller than the drain connection on the appliance.

Condensate must be disposed of according to local codes.

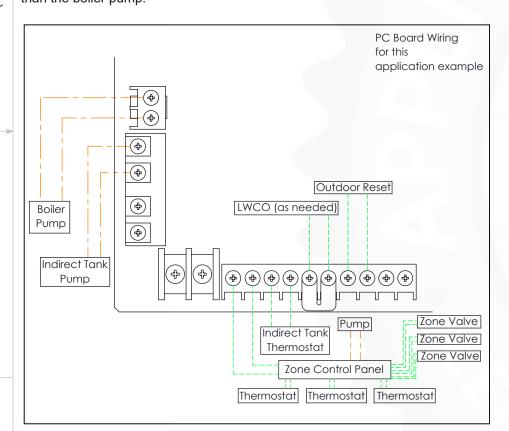
Air eliminator should be located at least 12 inches away from the first bend on the supply.

Reference the boiler installation manual for recommanded glycol brands and mixed ratio.

Referance vent section of the installation manual regarding venting.

The maximum amperage for the boiler pump is 2 Amps.

System pump(s) must be sized based on heat loss and head loss through the system. Indirect tank pump size should be equal or larger than the boiler pump.



Boiler Pump Recommendation:

	Pump Model			
Model	Grundfos	Taco	Bell & Gossett	Armstrong
i060S	UPS 15-42	007-IFC	NRF-25	ASTRO 230CI
i090S	UPS 15-42	007-IFC	NRF-25	ASTRO 230CI
i120S	UPS 15-58	008-IFC	NRF-25	ASTRO 230CI
i150S	UPS 26-99	0011-IFC	N/A	ASTRO 280CI

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UNLESS OTHERWISE SPECIFIED:

MFG APPR. COMMENTS:

Rinnai 05.29.2019 05.29.2019 TITLE: I-Series Solo Boiler with

Cold

Aauastat

Closely Spaced Tee -Indirect Tank and Baseboard

Indirect Tank

SIZE DWG. NO.

REV 0 1I-S-4BI-PS SCALE: NTS SHEET 2 OF 2

DO NOT SCALE DRAWING

— Mix

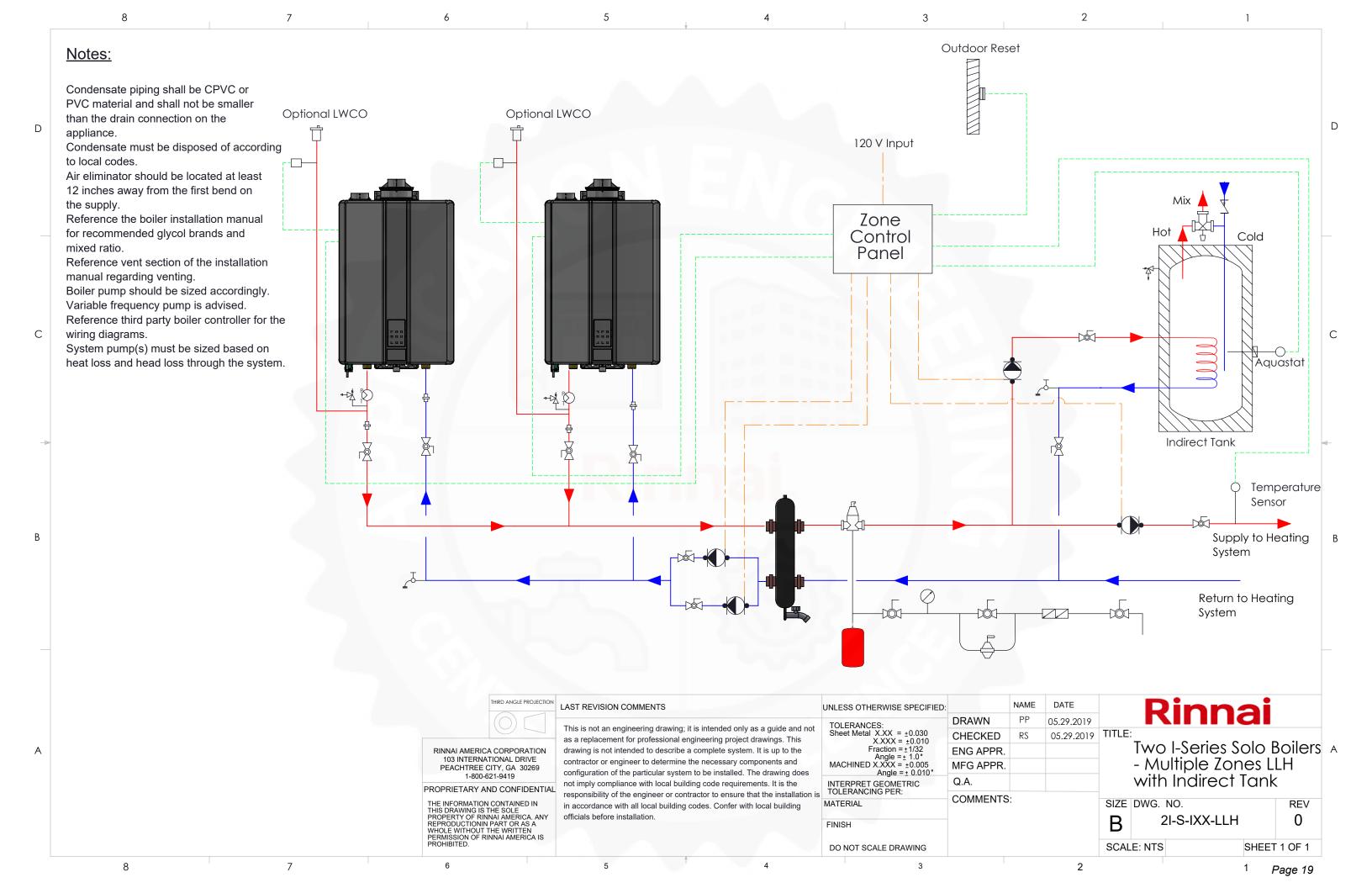
Hot

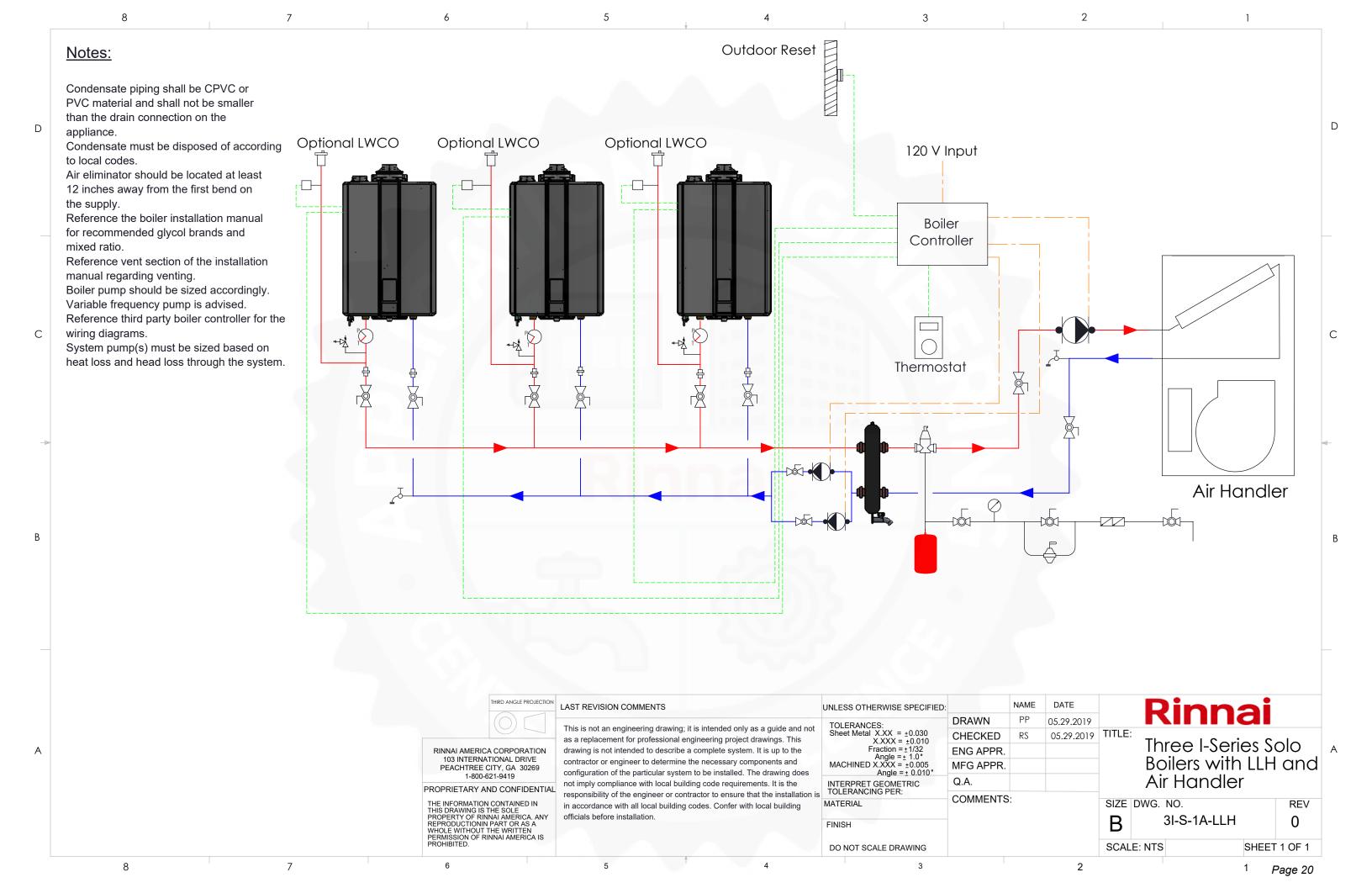
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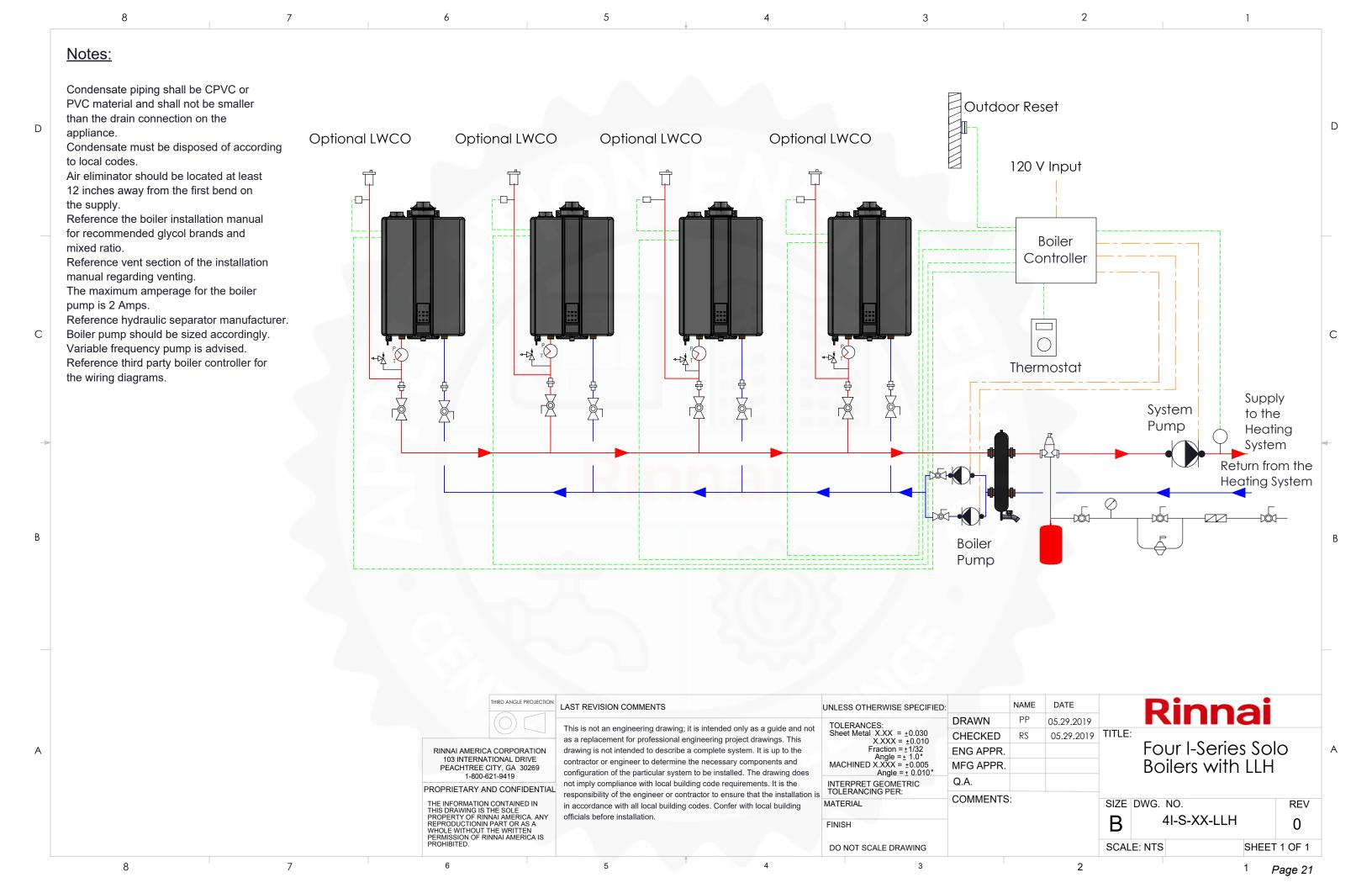
Page 18

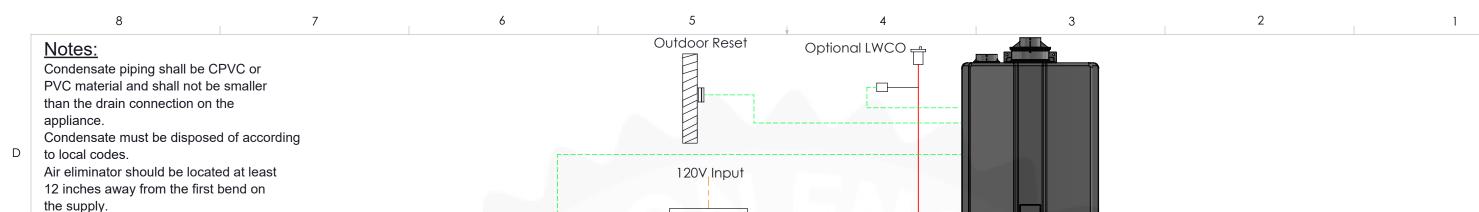
NAME

DATE









Indirect tank pump size should be equal or larger than the boiler pump. PC Board Wiring for this application example **-(** 4 Outdoor Reset 4 LWCO (as needed) Boiler Pump 4 Indirect Tank Pump Pump Indirect Tank Thermostat Zone Control Panel Thermostat

Reference the boiler installation manual

Reference vent section of the installation

System pump(s) must be sized based on

heat loss and head loss through the system.

The maximum amperage for the boiler

for recommended glycol brands and

manual regarding venting.

mixed ratio.

pump is 2 Amps.

Zone Control Panel — Mix Indirect Tank Pump Cold Hot **Thermostat** Aquastat Indirect Tank Hydronic Furnace

UNLESS OTHERWISE SPECIFIED:

DO NOT SCALE DRAWING

Boiler Pump Recommendation:

	Madal		Pui	mp Model	
	Model	Grundfos	Taco	Bell & Gossett	Armstrong
	i060S	UPS 15-42	007-IFC	NRF-25	ASTRO 230CI
	i090S	UPS 15-42	007-IFC	NRF-25	ASTRO 230CI
	i120S	UPS 15-58	008-IFC	NRF-25	ASTRO 230CI
	i150S	UPS 26-99	0011-IFC	N/A	ASTRO 280CI

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TOLERANCES: Sheet Metal X.XX = ±0.030 X.XXX = ±0.010 Fraction = ±1/32 Angle = ±1.0° MACHINED X.XXX = ±0.005 This is not an engineering drawing; it is intended only as a guide and not as a replacement for professional engineering project drawings. This drawing is not intended to describe a complete system. It is up to the contractor or engineer to determine the necessary components and configuration of the particular system to be installed. The drawing does INTERPRET GEOMETRIC TOLERANCING PER: not imply compliance with local building code requirements. It is the responsibility of the engineer or contractor to ensure that the installation is MATERIAL in accordance with all local building codes. Confer with local building officials before installation. FINISH

LAST REVISION COMMENTS

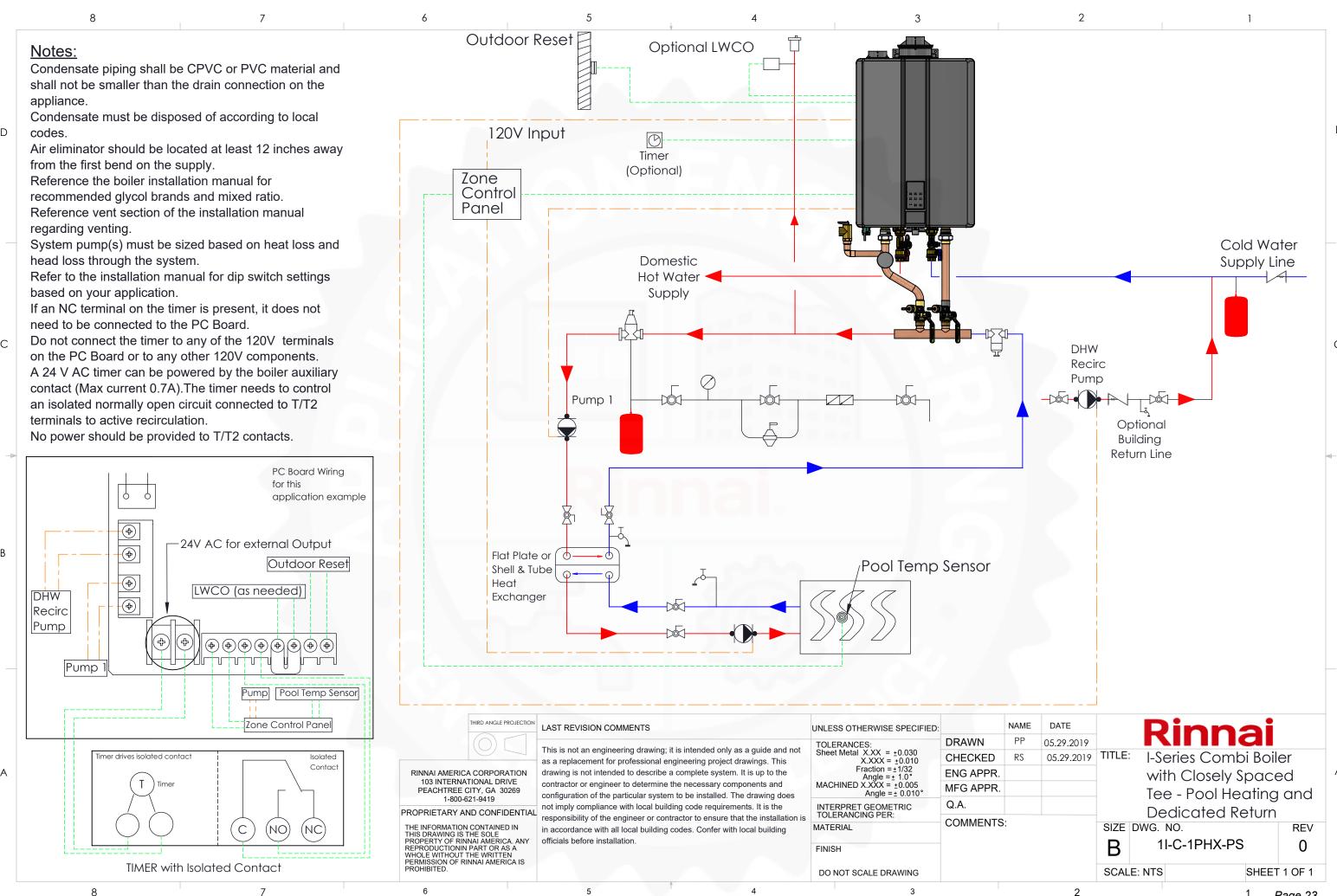
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NAME

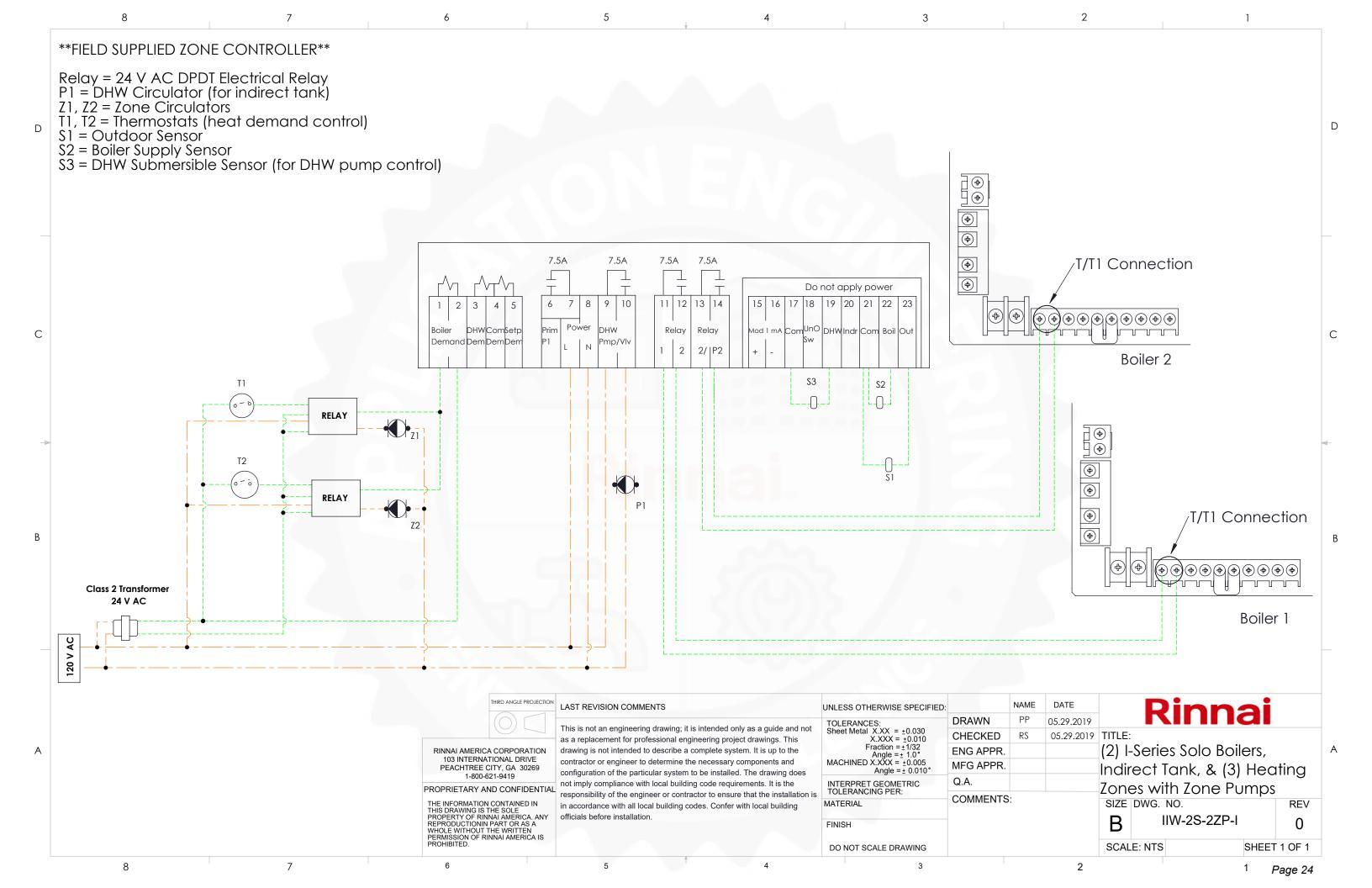
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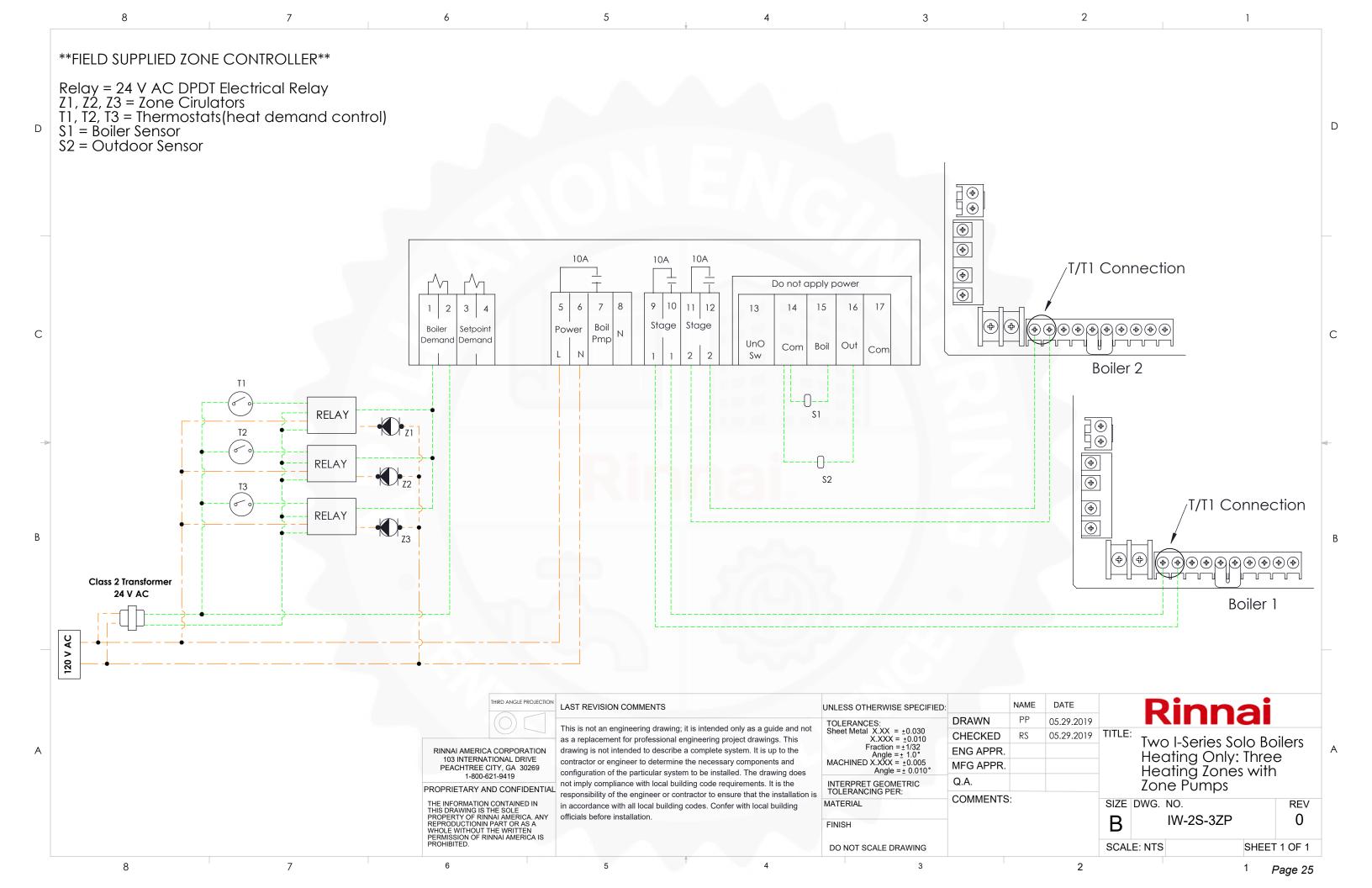
Rinnai 05.29.2019 05.29.2019 TITLE: I-Series Solo Boiler with Closely Spaced Tee - Indirect Tank and Air Handler

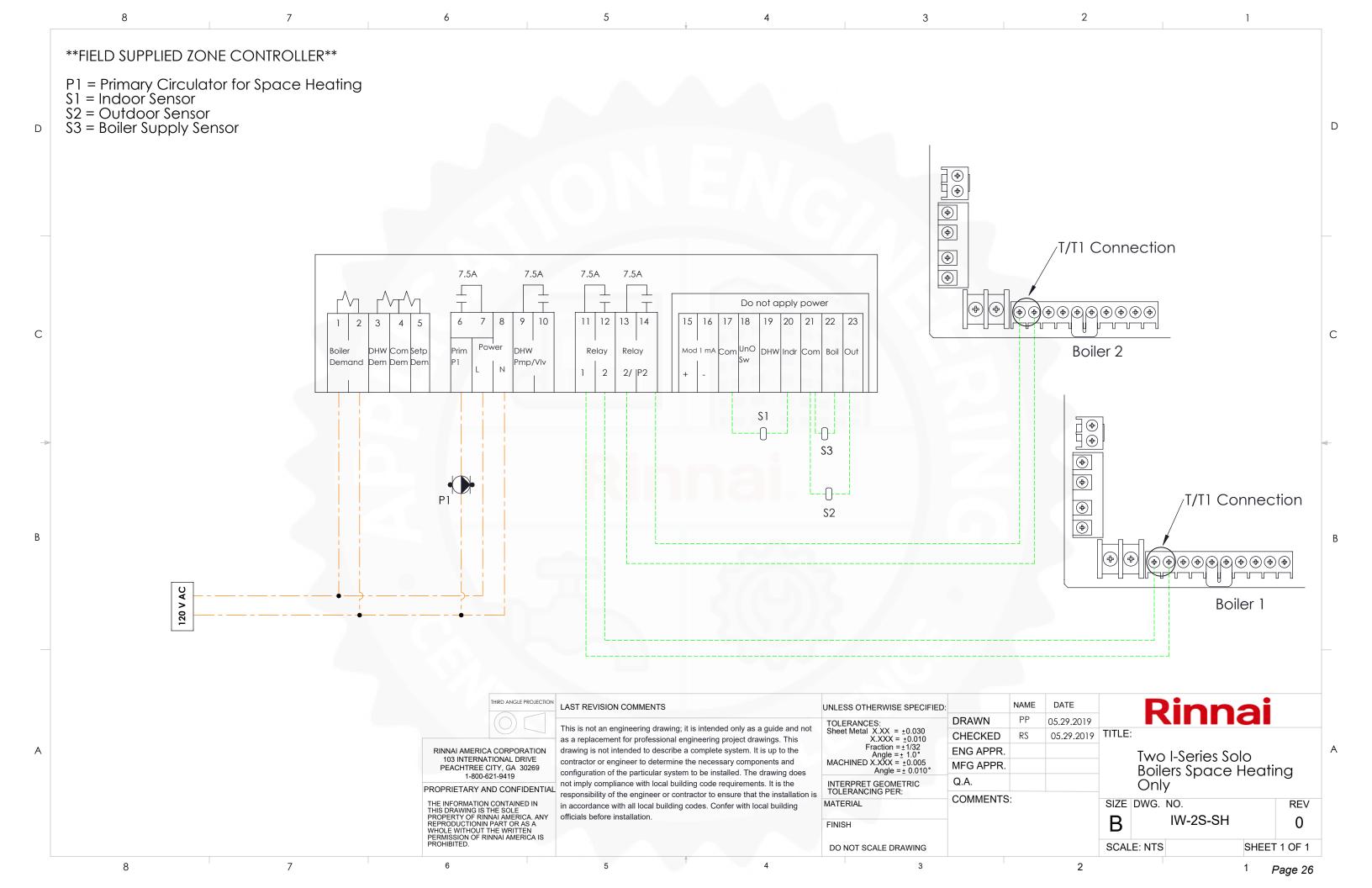
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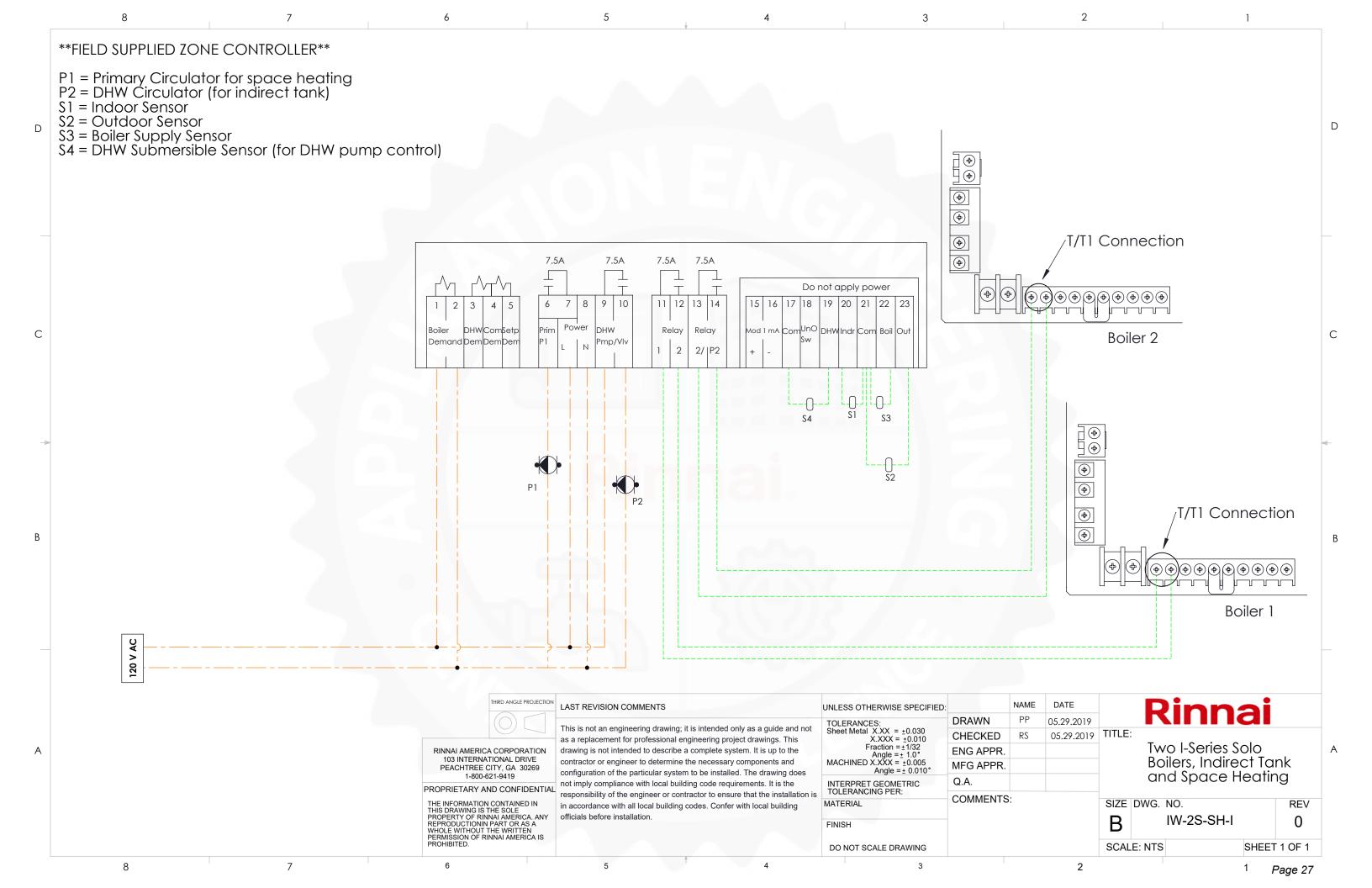


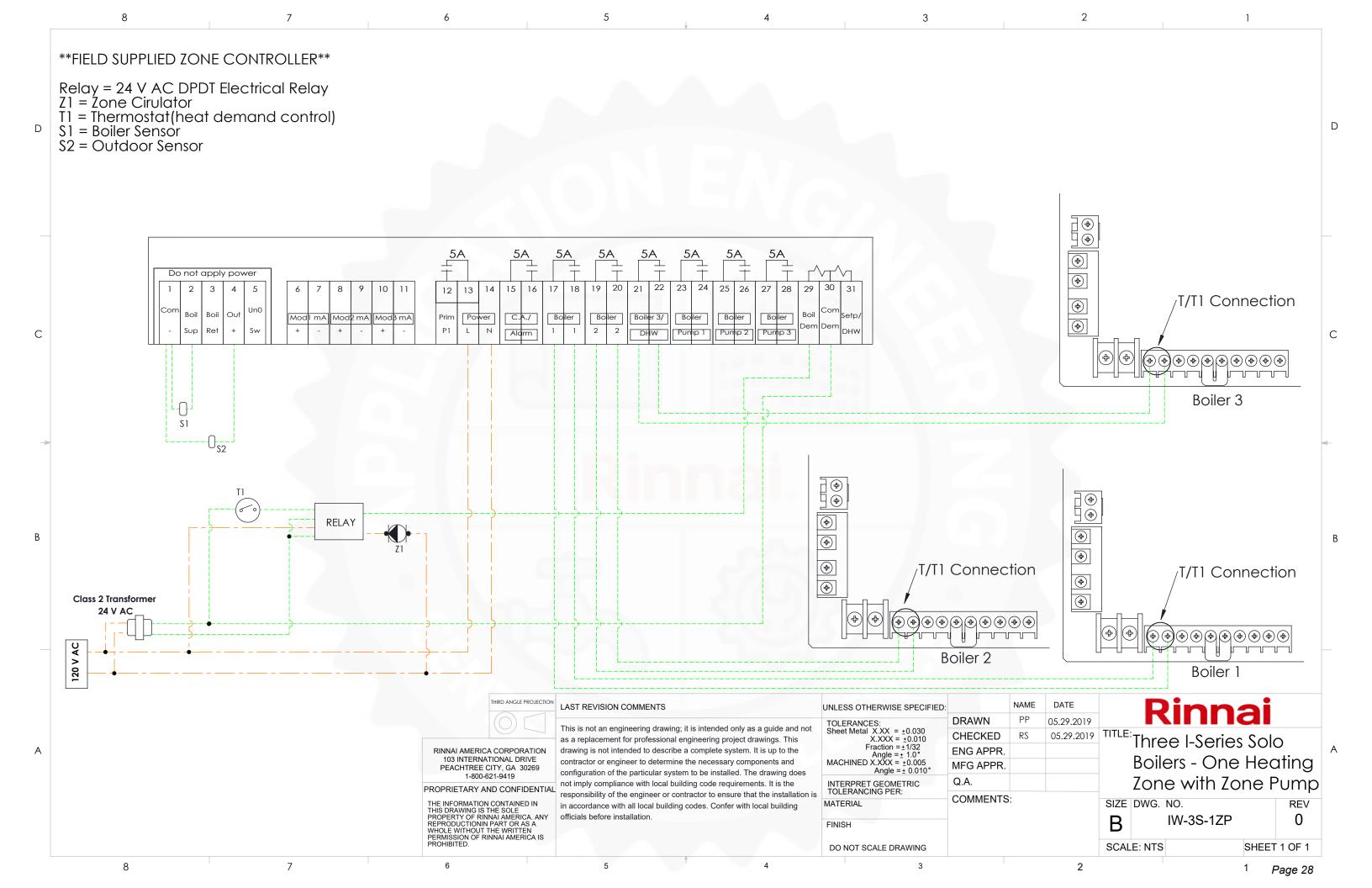
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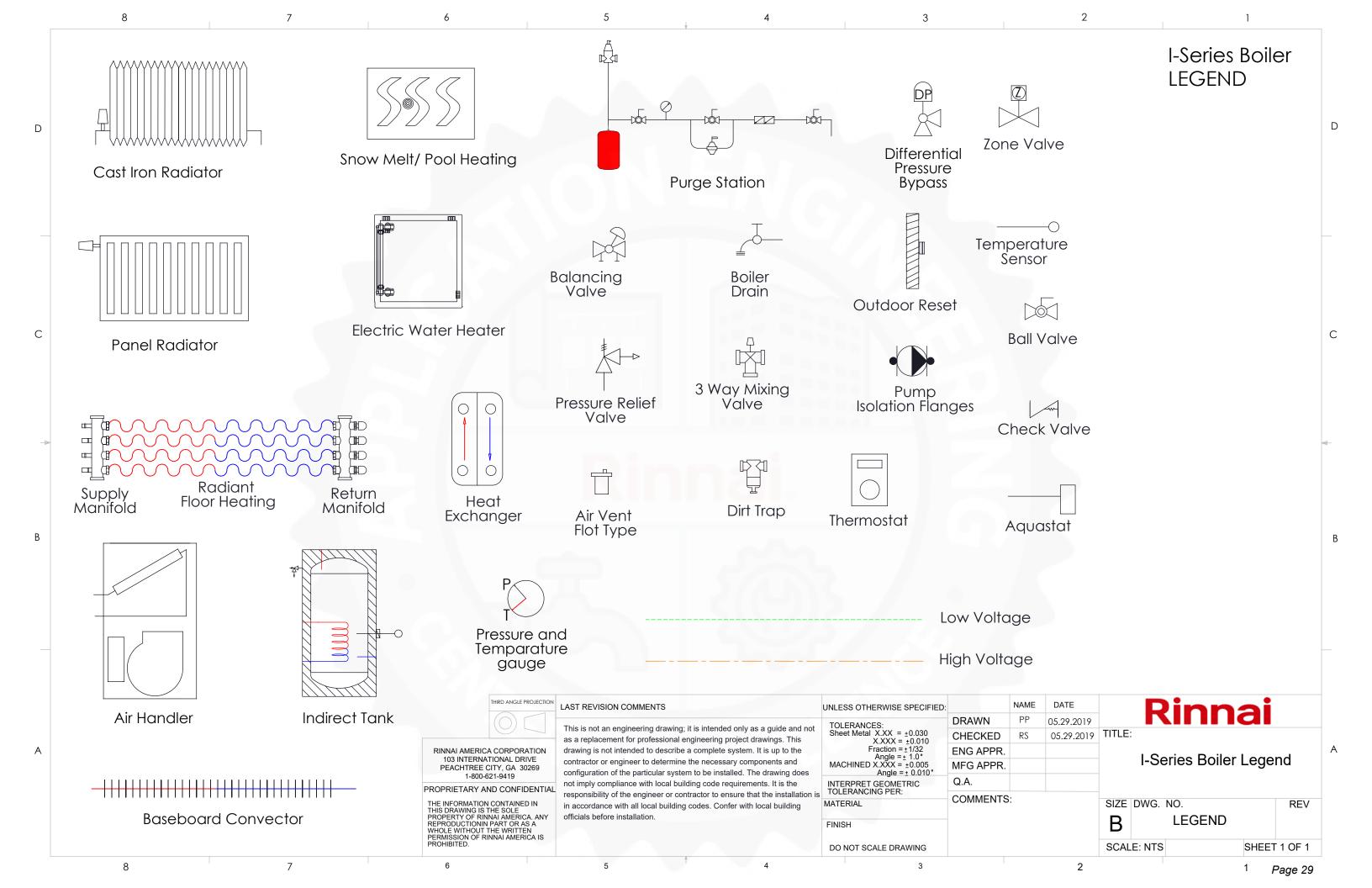












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