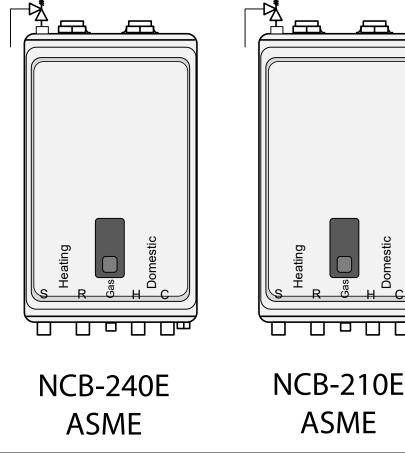
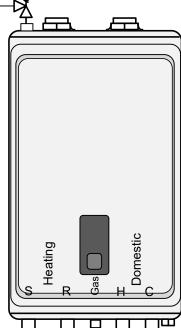
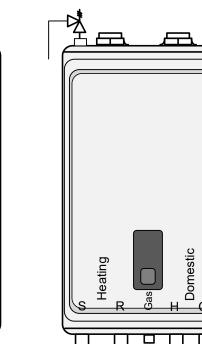
## **NCB-E Series Application Drawings**



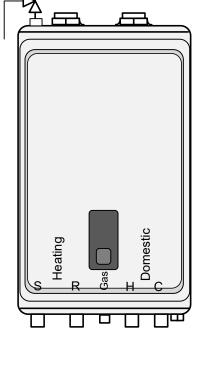


ASME



**NCB-180E** 

**ASME** 



**NCB-150E** ASME

Circulator

Expansion

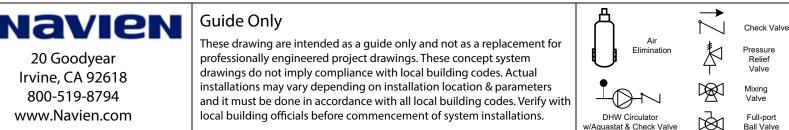
Tank

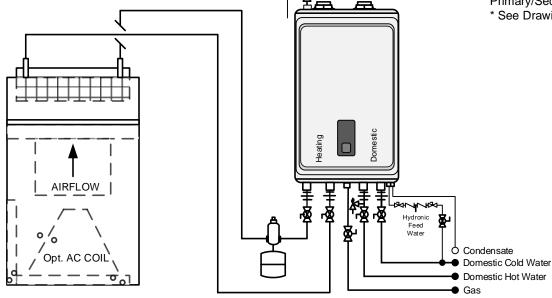
Aquastat

Ъ

Backflow

Prevento





## Installation Notes:

1. 100' Total Maximum Boiler-Side Piping Connection Length Allowed. (NCB-E Circulator-Sp 3, High)

2. Boiler-Side Pipe Length Exceeding 100' Total or a 50MBTUH Coil Output or More Requires Primary/Secondary Piping Configuration with Separate System Circulator.

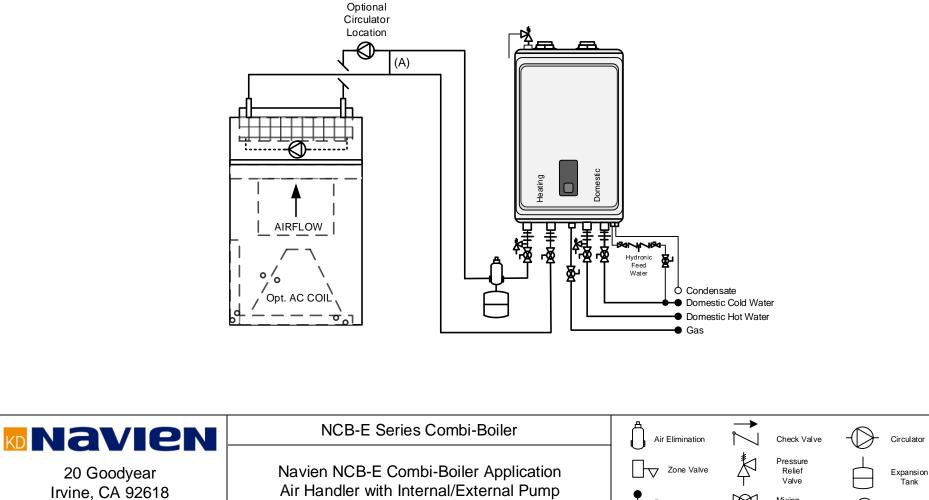
3. Air Handlers with Internal or External Circulator Requires Crossover Pipe at A/H Unit or CH Unit to Complete Primary/Secondary Configuration\*. \* See Drawing NCB-E-AHU-P-BF01

Navien	NCB-E Series Combi-Boiler			Air Elimination	$\uparrow$	Check Valve	e - Circulator
20 Goodyear Irvine, CA 92618 800-519-8794	Navien NCB-E Combi Boiler Application with Air Handler - Direct Connection				Pressure Relief Valve Mixing Valve	Expansion Tank T Aquastat	
www.navien.com	Drawn By: <b>B.F.</b>	NCB-E-AHU-BF01	February 9, 2016	DHW Circulator w/Aquastat & Check Valve	Ŵ	Full-port Ball Valve	Backflow Preventor

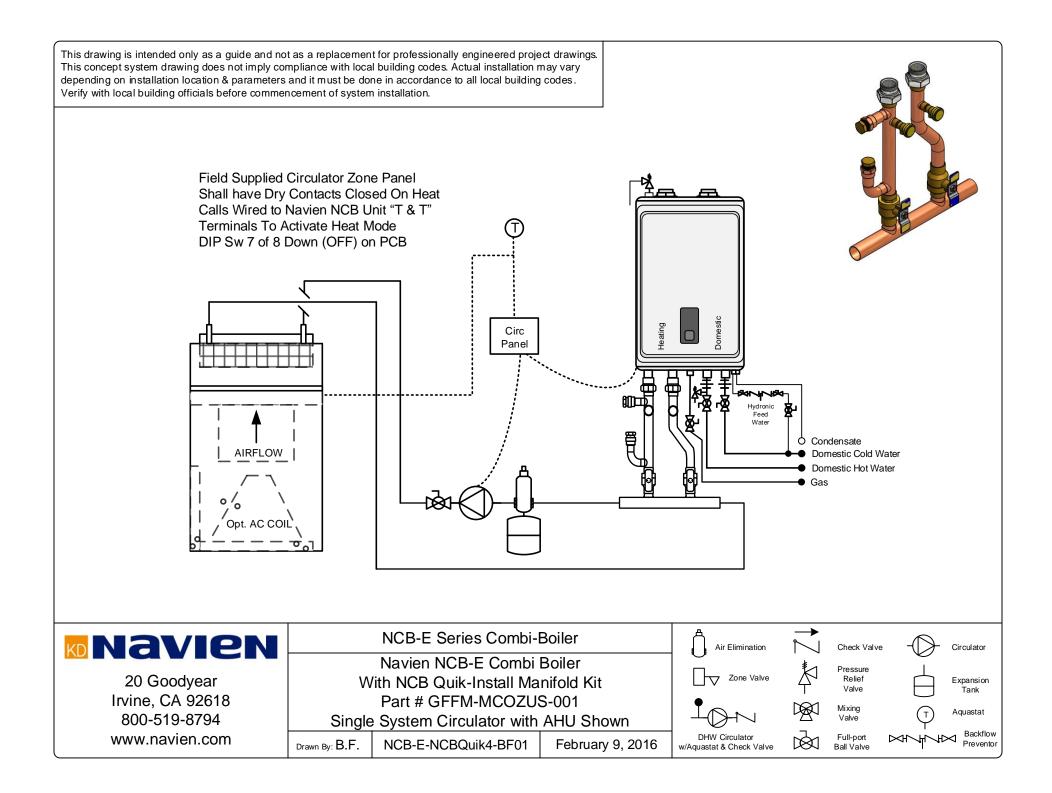
## Installation Notes:

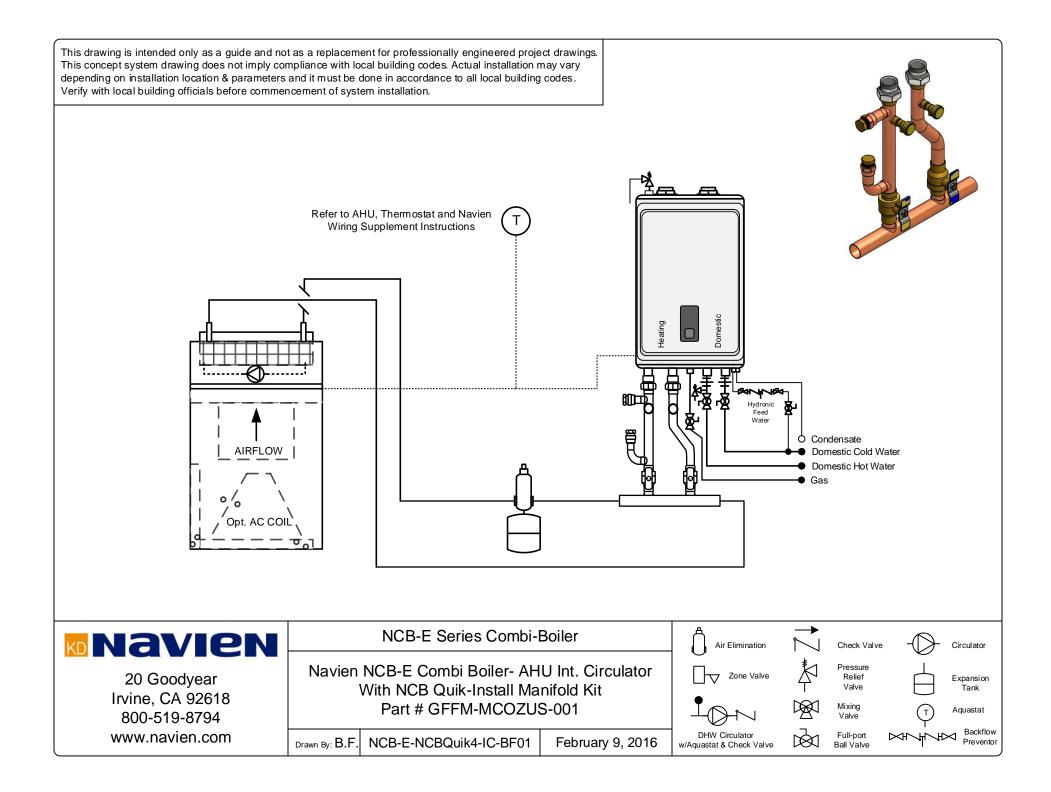
1. 200' Total Maximum Boiler-Side Piping Connection Length Allowed. (NCB-E Circulator-Sp 3, High)

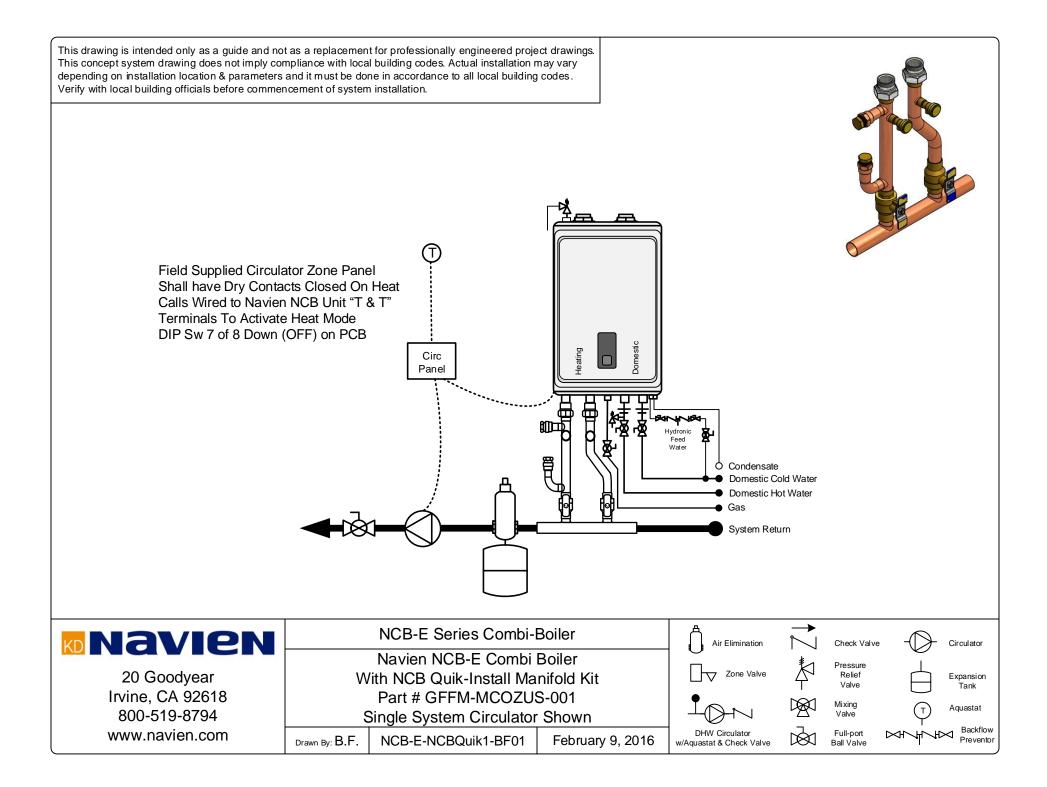
2. Boiler-Side Pipe Length Exceeding 200' Total or a 50MBTUH Coil Output or More Requires Primary/Secondary Piping Configuration (A) with A/H connection the tertiary secondary.

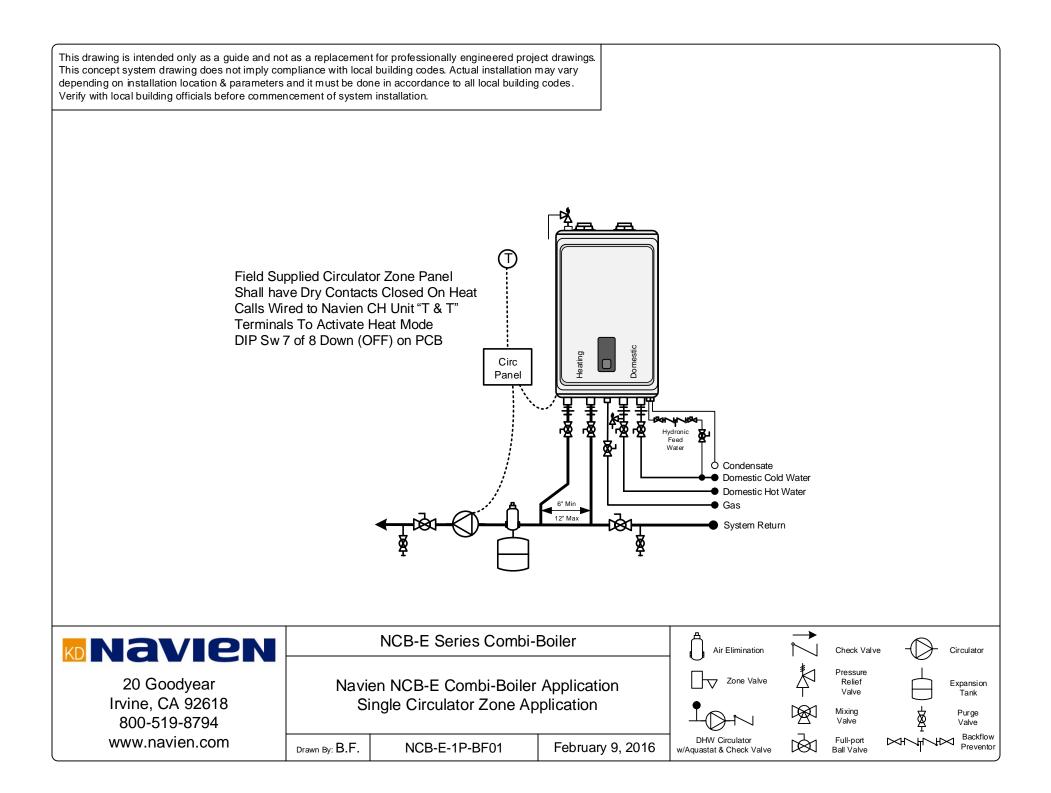


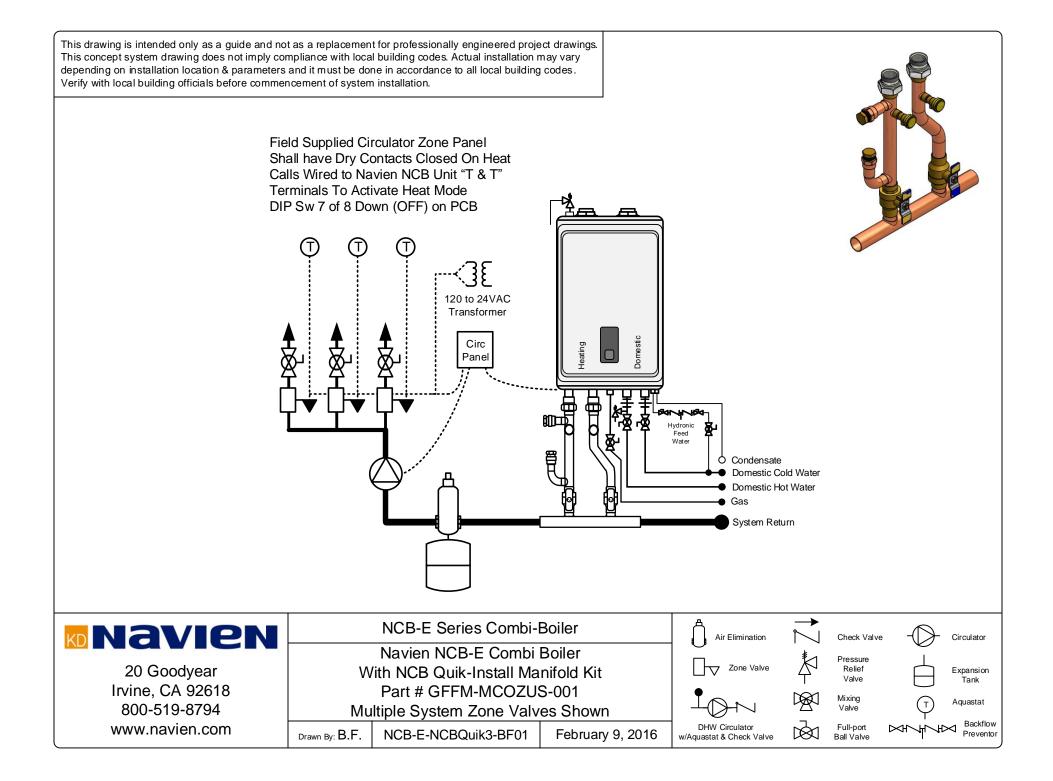
Mixing Aquastat 800-519-8794 Valve Backflow www.navien.com DHW Circulator Full-port ₩ ЪЧ NCB-E-AHU-P-BF01 February 9, 2016 D\$1 Drawn By: B.F. Preventor w/Aquastat & Check Valve Ball Valve

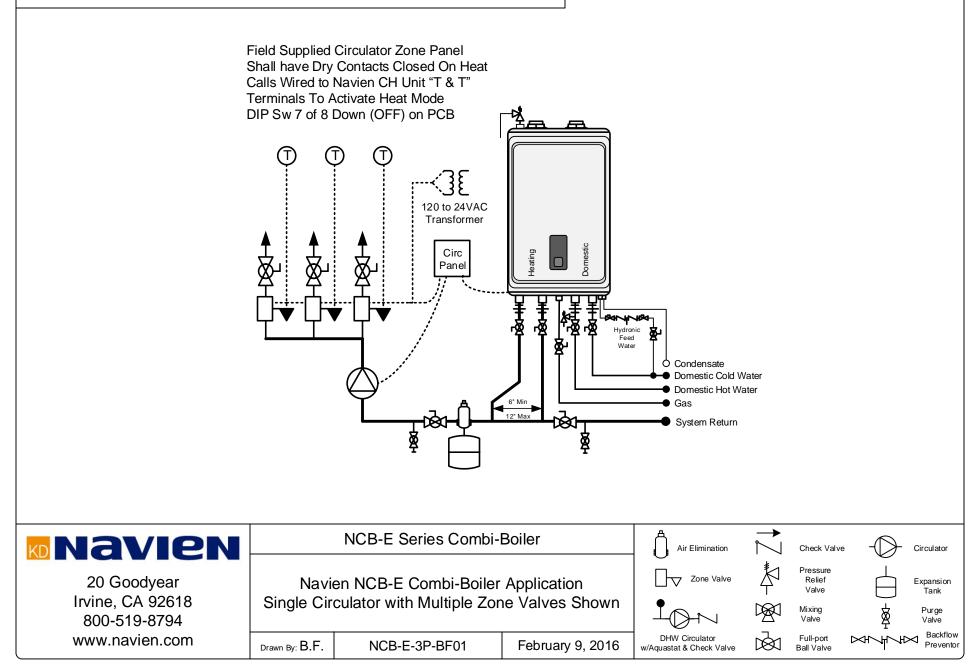


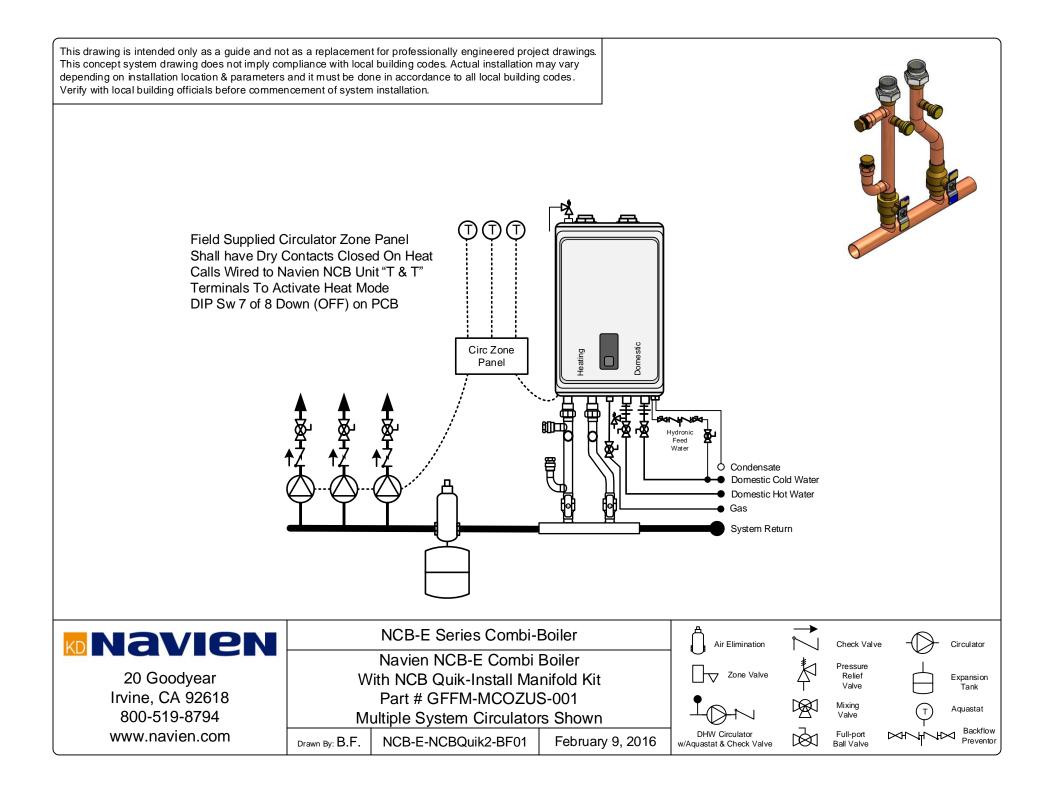


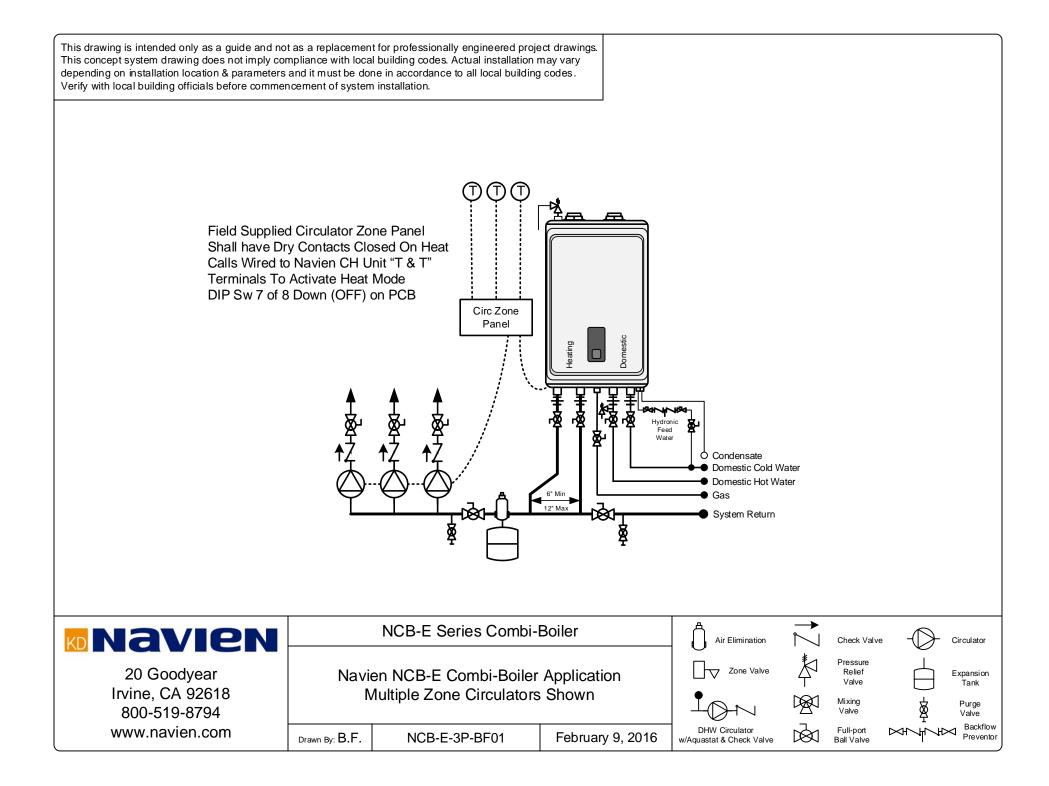




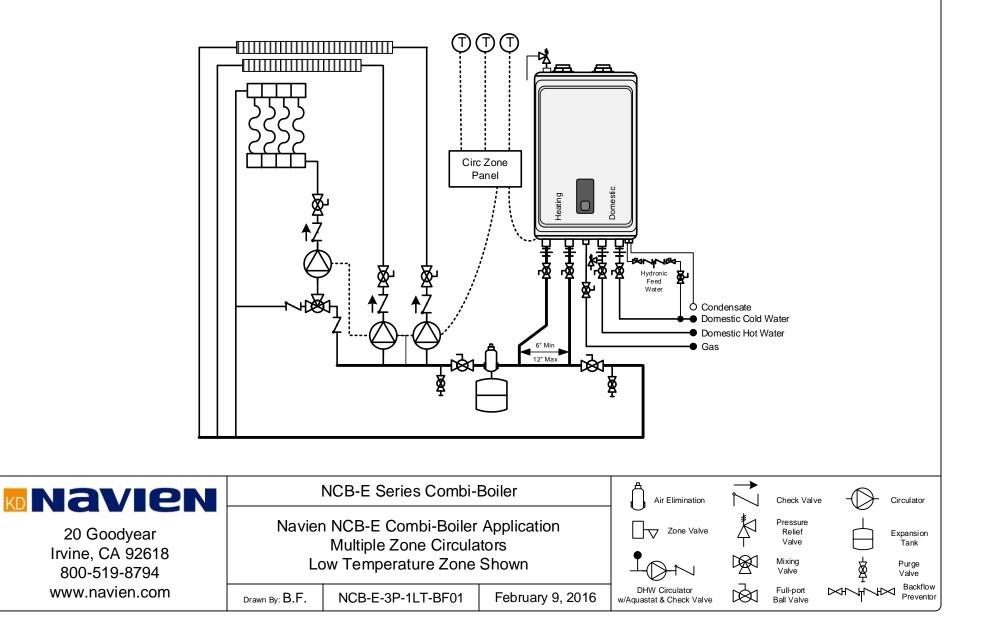






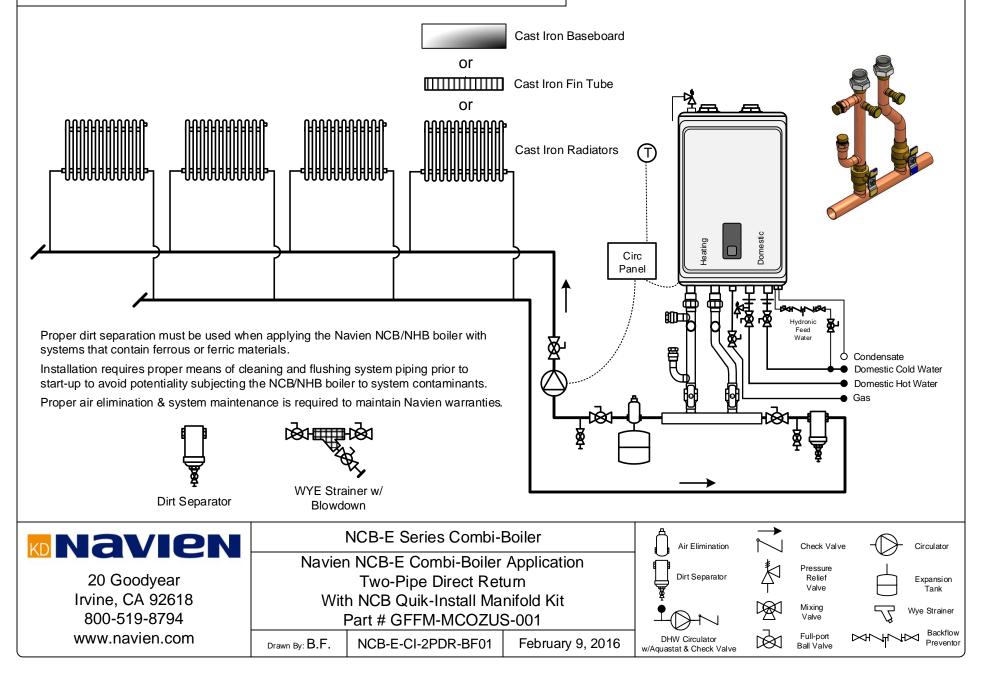


Field Supplied Circulator Zone Panel Shall have Dry Contacts Closed On Heat Calls Wired to Navien CH Unit "T & T" Terminals To Activate Heat Mode DIP Sw 7 of 8 Down (OFF) on PCB



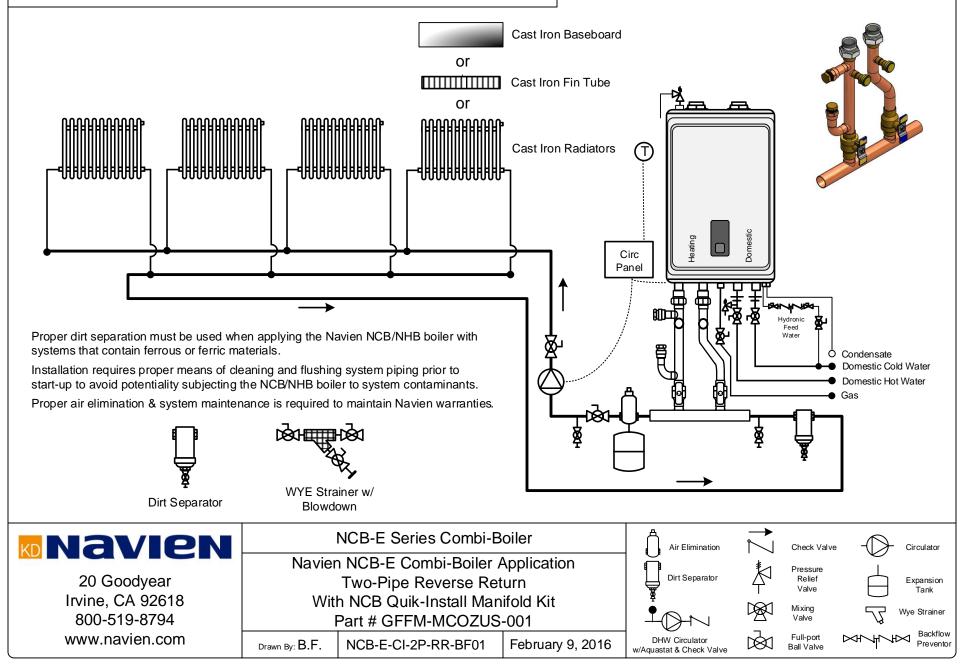
Field Supplied Circulator Zone Panel Shall have Dry Contacts Closed On Heat Calls Wired to Navien CH Unit

"T & T" Terminals To Activate Heat Mode DIP Sw 7 of 8 Down (OFF) on PCB



Field Supplied Circulator Zone Panel

Shall have Dry Contacts Closed On Heat Calls Wired to Navien CH Unit "T & T" Terminals To Activate Heat Mode DIP Sw 7 of 8 Down (OFF) on PCB



Field Supplied Circulator Zone Panel Shall have Dry Contacts Closed On Heat Calls Wired to Navien CH Unit "T & T" Terminals To Activate Heat Mode DIP Sw 7 of 8 Down (OFF) on PCB

