

2.0 EA

•4" ST TEE

## **GENERAL NOTES:**

ONO UNDERGROUND BUILDING DRAIN PIPING SHALL BE INSTALLI UNTIL BUILDING SEWERS ARE BROUGHT TO THE BUILDING AND IN ELEVATIONS VERIFIED. COSTS INCURRED FOR FAILURE TO DO SO SHALL BE THE CONTRACTOR'S RESPONSIBILITY.

## **KEYNOTES:**

- 1/2" HOT AND COLD WATER DOWN WALL TO TB
  RETHERMALIZER. PROVIDE SHUT-OFF VALVE OUTSIDE OF WALL
  FOR CONNECTION TO RETHERMALIZER.
- 8 1/2" SOFT WATER TO REVERSE OSMOSIS FILTER P-315 AND 1/2"

- (32) OWNER FURNISHED OIL PUMPING SYSTEM. INSTALL PUMP AND ROUTE 3/4" SCH. 40 BLACK STEEL PIPE AND 1509 FITTINGS TO OIL TANKIN MECHANICAL SPACE ALL PIPINS ASHALL BE PITCHED TO THE OIL TANK AT 1/2" MINIMUM PER FOOT. ALL PIPING SHALL BE INSULATED WITH 1" THICK INSULATION FROM FRYER TO GREASE TANK IN CEILING SPACE.
- 13 INSTALL 2" SCH. 40 BLACK STEEL PIPE & OWNER FURNISHED INSTALL 2 SCH-90 BEACK STEEL THE OCCUPIED TO WHISH FRADE. ALL PIPING SHALL BE PITCHED TO THE OIL TANK AT 1/8" MINIMUM PER FOOT. ALL PIPING SHALL BE INSULATED WITH 1" THICK INSULATION FROM FRYER TO GREASE TRUCK CONNECTION.
- 15) 3/4" DN ALONG WALL TO WATER FILTER S-286. SEE DETAIL

Always a Better Plan

100 Camelot Drive Fond du Lac, WI 54935 920-926-9800 excelengineer.com

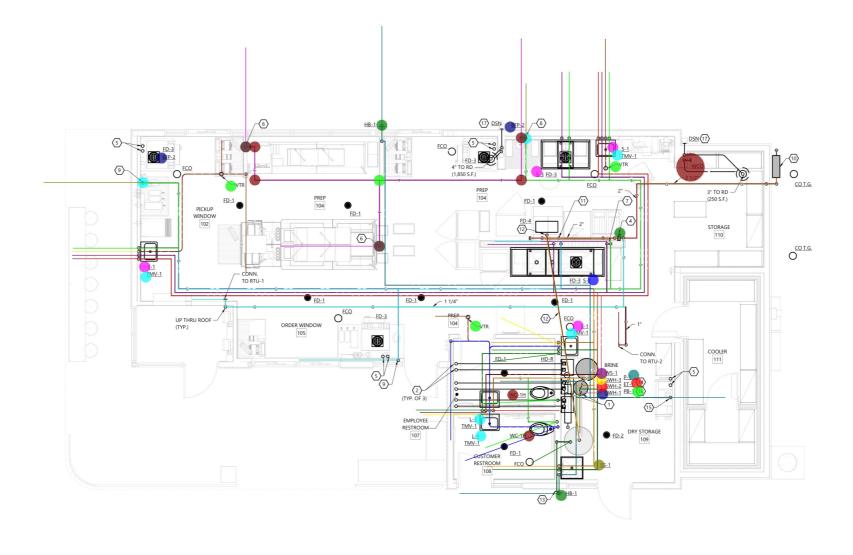
PROJECT INFORMATION

- BLACK RIVER BELLS IWAY • LA PORTE, IN 46350 **NEW BUILDING FOR** TACO BELL - BI E. LINCOLNWAY

FEB. 2, 2024

JOB NUMBER 240006400

SHEET NUMBER **P1.U** 





## **GENERAL NOTES:**

NO UNDERGROUND BUILDING DRAIN PIPING SHALL BE INSTALLED UNTIL BUILDING SEWERS ARE BROUGHT TO THE BUILDING AND INVERTIEURATIONS VERIFIED. COSTS INCURRED FOR FAILURE TO DO SO SHALL BE THE CONTRACTOR'S RESPONSIBILITY.

●INSTALL CLEANOUTS AT STACKS WHICH PENETRATE THE LOWEST FLOOR LEVEL 28" AFF UNLESS NOTED OTHERWISE.

●P.C. SHALL VERIFY RIM ELEVATION OF SANITARY MANHOLE UPSTREAM OF BUILDING SEWER CONNECTION TO THE MAIN IS BELOW FLOOR ELEVATION OF TENANT BUILDING. IF RIM IS ABOVE FLOOR ELEVATION, PROVIDE PRICE TO ADD A BACKWATER VALVE AND NOTIFY

•SEE ARCHITECTUAL S1 SHEETS FOR FLOOR DRAIN RIM ELEVATIONS.

●SLOPE ALL ST/OFD PIPING AT 1/8"/FT UNLESS NOTED OTHERWISE.

## **KEYNOTES:**

SEE WATER METER/ SOFTENER/ HEATER PIPING DETAIL FOR CONTINUATION.

PROVIDE CAST IRON P-TRAP AND PIPING 10' DOWNSTREAM OF RETHERMALIZER.

(5) BUNDLED SYRUP LINES TO BEVERAGE DISPENSERS S-285 AND FILTERED WATER LINES TO ICE MAKERS S-513 AND FROZEN BEVERAGE DISPENSER S-739.

(6) 1/4" FILTERED WATER LINE DN IN UTILITY CHASE OF DRY PRODUCT LINE. PROVIDE SHUT-OFF VALVE ON FW PIPING IN CEILING NEAR CHASE. (7) 1/2" HOT AND COLD WATER DOWN WALL TO TB RETHERMALIZER. PROVIDE SHUT-OFF VALVE OUTSIDE OF WALL FOR CONNECTION TO RETHERMALIZER.

(8) 1/2" SOFT WATER TO REVERSE OSMOSIS FILTER P-315 AND 1/2" FILTERED FROM REVERSE OSMOSIS FILTER. PROVIDE SHUT-OFF VALVE ON SOFT PIPE PRIOR TO CONNECTION TO FILTER.

1/2" SOFT WATER. CONNECT TO WATER FILTER FOR BUNN POD BREWER P-147. PROVIDE SHUT-OFF VALVE PRIOR TO CONNECTION TO THE WATER FILTER.

 $\begin{tabular}{ll} \hline \end{tabular} \begin{tabular}{ll} GAS SERVICE BY UTILITY PROVIDER. REQUIRED PRESSURE SHALL BE <math>7^*$  W.C.

OWNER FURNISHED OIL PUMPING SYSTEM. INSTALL PUMP AND ROUTE 3/4" SCH. 40 BLACK STEEL PIPE AND 1509 FITTINGS TO OIL TANK IN MECHANICAL SPACE ALL PIPING SAHALL BE PITCHED TO THE OIL TANK AT 1/2" MINIMUM PER FOOT. ALL PIPING SHALL BE INSULATED WITH 1" THICK INSULATION FROM FRYER TO GREASE TANK IN CEILING SPACE.

[3] INSTALL 2" SCH. 40 BLACK STEEL PIPE & OWNER FURNISHED PUMP TRUCK CONNECTION AT 48" ABOVE FINISH GRADE. ALL PIPING SHALL BE PITCHED TO THE OIL TANK AT 1/8" MINIMUM PER FOOT. ALL PIPING SHALL BE INSULATED WITH 1" THICK INSULATION FROM FRYER TO GREASE TRUCK CONNECTION.

(15) 3/4" DN ALONG WALL TO WATER FILTER S-286. SEE DETAIL 11/P3.2.

17 INSTALL DOWNSPOUT NOZZLE AT 18" A.F.F.

GAS LOAD SUMMA		
ITEM	MBH INPUT	REQUIRED PRESSURE (
RTU-1	180	7" W.C.
RTU-2	180	7" W.C.
RETHERMALIZER	110	7" W.C.
DOUBLE FRYER	150	7" W.C.
GWH-1	199	7" W.C.
GWH-2	199	7" W.C.
GWH-3	199	7" W.C.
TOTAL	1,217	
GRAND TOTAL	1,217	
- GAS PRESSUR	E AT ME	TER = 7" W.C.

SHEET DATES FEB. 2, 2024

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PROJECT INFORMATION

NEW BUILDING FOR:

TACO BELL - BLACK RIVER BELLS

E. LINCOLNWAY • LA PORTE, IN 46350

JOB NUMBER 240006400

> SHEET NUMBER P1.1

PLUMBING FIRST FLOOR PLAN

1/4" Filtered Water Piping	64.8 FT
Shutt Off Valve	4.0 EA
🔄 1/2" Soft Cold Water	20.2 FT
🔄 1" Soft Cold Water	64.1 FT
🔄 3/4" Soft Cold Water	93.9 FT
🔄 1 1/4" Soft Cold Water	3.0 FT
🛅 1 1/2" Soft Cold Water	52.5 FT
🔄 1/2" Soft Cold Water	6.0 FT
<u>I</u> 3/4" HW	113.2 FT
<u>I</u> 1" HW	8.8 FT
<u>I</u> 1/2" HW	56.0 FT
🔄 3/4" HWR	80.3 FT
🔄 1" HWR	14.5 FT
🔄 1/2" HWR	19.9 FT
<u>□</u> 3/4" CW	94.8 FT
🔄 3" Vent Piping	45.5 FT
-3" VTR	3.0 EA
🔄 1 1/2" Vent Piping	18.1 FT
🔄 2" Vent Piping	41.9 FT
•S-1	3.0 EA
•L-1	2.0 EA
•WC-1H	2.0 EA
:• HB-1	2.0 EA
• SS-1	1.0 EA
GWH-1	1.0 EA
<b>:</b> • GWH-2	1.0 EA
• GWH-3	1.0 EA
• WS-1	1.0 EA
•P-1	1.0 EA
• ET-1	1.0 EA
•PB-1	1.0 EA
• S-2	1.0 EA
•S-3	1.0 EA
🔄 1 1/4" Gas Piping	46.1 FT
🛅 1" Gas Piping	7.1 FT
🔄 2" Gas Piping	14.6 FT
🔄 2 1/2" Gas Piping	13.2 FT
:• Emergency Gas Shutt Off Valve	1.0 EA
• 1/4" FW TÉE	1.0 EA
:• 1/4" FW Elbow	6.0 EA
<b>: •</b> TMV-1	3.0 EA
• Wall Cleanout	1.0 EA

2" Sch 40 Black Steel Pipe

BFP-2

3/4" Sch 40 Black Steel Oil Pipe

9.8 FT

18.9 FT

2.0 EA

**GENERAL NOTES:** 

SEE FLOOR PLANS AND FIXTURE UNIT SCHEDULE FOR RUNOUT TRAP SIZE TO FIXTURE.



PROJECT INFORMATION

NEW BUILDING FOR:

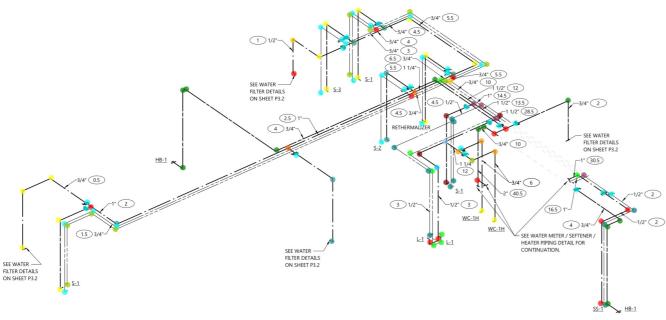
L - BLACK RIVER BELLS
INWAY • LA PORTE, IN 46350

TACO BELL - BI E. LINCOLNWAY

SHEET DATES FEB. 2, 2024 SHEET ISSUE

JOB NUMBER 240006400

SHEET NUMBER **P2.0** 



**WATER ISOMETRIC** 

2.23 PSIG/100'
3.3 PSIG
0.9 PSIG
1 PSIG
13 PSIG
34.9 PSIG
35 PSIG
69.9 PSIG

| WSFU | Copper | Flush | Size | tank | valve | 1/2 | 5.0 | NP | 3/4 | 16.5 | 4.0 | 1.1/4 | 58.0 | 15.0 | 1.1/2 | 107.0 | 37.0 | 2.1/2 | 469.0 | 356.0 | 3 | 752.0 | 698.0 | 4 | 1792.0 | 1792.0 | 1792.0 |

Flush valve NP 4.0 5.5 8.0 19.0 73.0 255.0

Flush Flush valve tank valve tank

0 FT
14.64 PSIG/100'
0.0 PSIG
4EESE MELTER
1EP 104
8 PSIG
3 FEET
11 PSIG
3 PSIG
46.6 PSIG
80 FEET
120 FEET
120 FEET

0.0 FT

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NAN EA

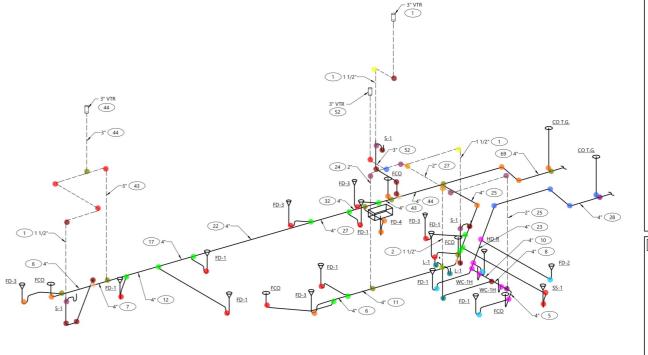
3.0 EA

1.0 EA

1.0 EA



**FIXTURE UNITS** 



WASTE AND VENT ISOMETRIC

• 1"x1/2" HWR TEE • 3/4" HW TEE •1"x3/4" HW TEE • 1"x1/2" HW TEE • 3/4" CW Elbow

1 1/2" Soft Cold Water

1 1/2" Vent Piping

3" Vent Piping

• 4" GW TEE

•2" GW TEE

•4"x2" GW TEE

•4"x3" GW TEE

•4" GW Elbow

•3" GW Elbow

•2" GW Elbow

•4"x3" SA TEE

•4"x2" SA TEE

•2" SA Elbow

•3" SA Elbow

• 4" SA Elbow

•3" V Elbow

•2" V Elbow

•3"x1 1/2" V Elbow

•1 1/2" V Elbow • 3" V TEE

•2"x1 1/2" V TEE

• 3/4" Soft Cold Elbow

• 1/2" Soft Cold Elbow

1 1/2" Soft Cold Elbow

1 1/4" Soft Cold Elbow

1" Soft Cold Elbow

3/4" Soft Cold TEE

•1 1/2" Soft Cold TEE

1 1/4" Soft Cold TEE

1" Soft Cold TEE

•3/4" HW Elbow

• 1/2" HW Elbow

3/4" HWR Elbow

• 1/2" HWR Elbow

•3/4" CW TEE

Shutt Off Valve

1"x3/4" HWR TEE

• 1"x1/2" Soft Cold TEE

• 1 1/4"x1 1/2" Soft Cold TEE

• 3/4"x1 1/4" Soft Cold TEE

1"x3/4" Soft Cold TEE

•3/4"x1/2" Soft Cold Elbow

1 1/2"x1/2" Soft Cold Elbow

• 1 1/4"x3/4" Soft Cold Elbow

1 1/4"x1 1/2"x3/4" Soft Cold TEE

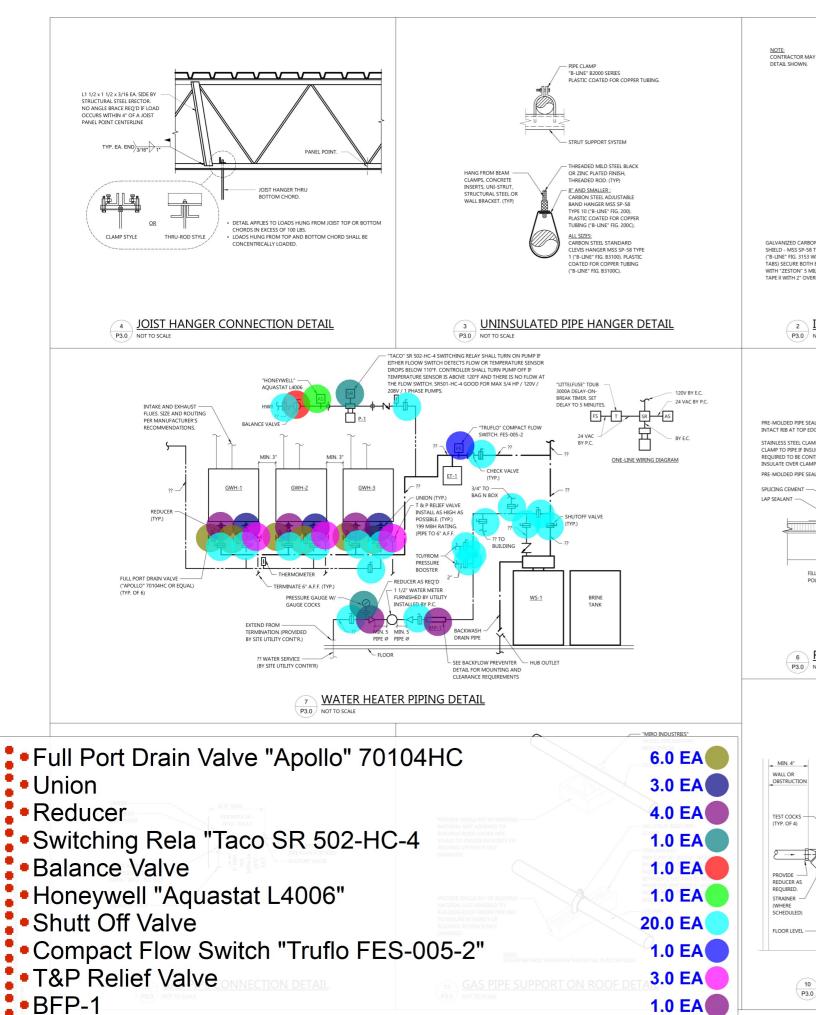
• 3"x2" V TEE

•4" SA TEE

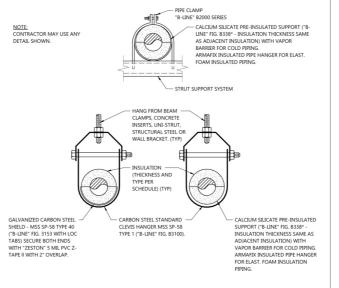
•2" SA TEE

13/4" HWR 1" 1WR

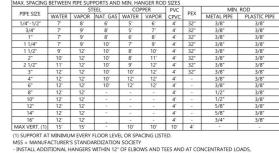
PLUMBING ISOMETRICS AND SCHEDULES



Pressure Guage w/ Gauge Cocks

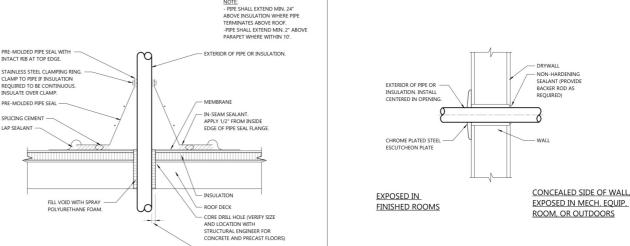


**INSULATED PIPE HANGER DETAIL** 

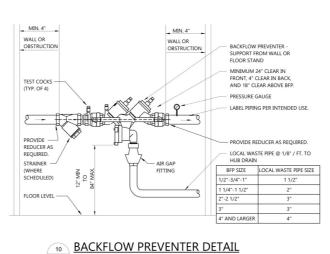


ROD DIA.	MAX LOAD (1)	
3/8"	600#	1
1/2"	1,100#	1
5/8"	1,800#	1
3/4"	2,700#	1

PIPE SUPPORT AND HANGER ROD SCHEDULE



PIPE PENETRATION THRU STUD WALL



1.0 EA

**ROOF PIPE BOOT PENETRATION DETAIL** 

9 TMV-1 DETAIL
NOT TO SCALE

JOB NUMBER 240006400

P3.0

**PLUMBING DETAILS** 

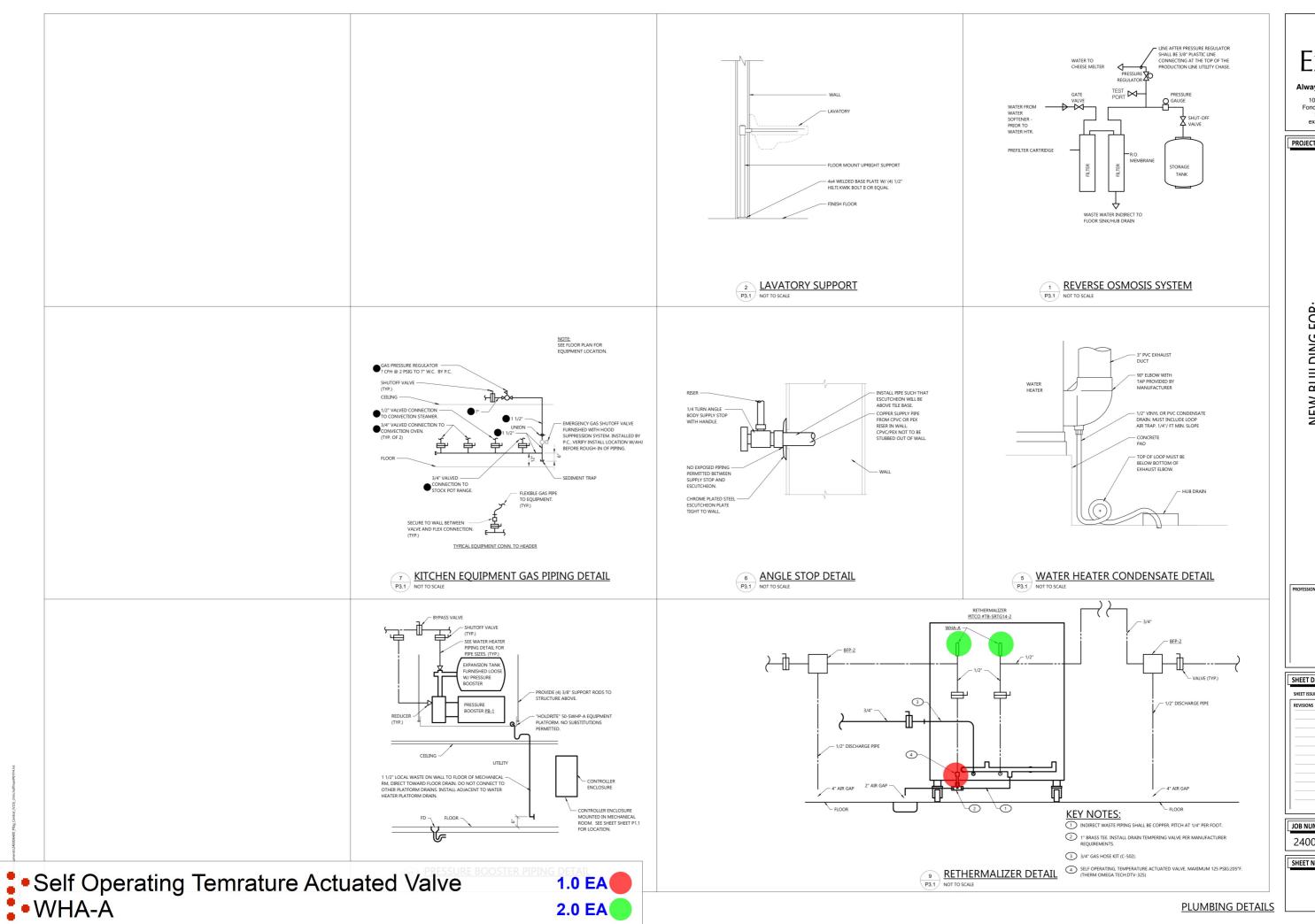


PROJECT INFORMATION

ACK RIVER BELLS LA PORTE, IN 46350 **BUILDING FOR** 图 **FACO BELL - B**|
E. LINCOLNWAY NEW

SHEET ISSUE	FEB. 2, 202
REVISIONS	

SHEET NUMBER



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NEW BUILDING FOR:

TACO BELL - BLACK RIVER BELLS

E. LINCOLNWAY • LA PORTE, IN 46350

SHEET DATES

FEB. 2, 2024

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