

MAINS AND RISERS

120 GPM SYSTEM TOTAL 60 GPM PER SIDE
12.92 FT. DF HD. COMMON W/RISER
1.81 FT. HD. 3" NEAR CHILLER
9 FT. HD. CHILLERS
3 FT. HD. FITTINGS

PUMP: 120 GPM @ 27 FT. HD.

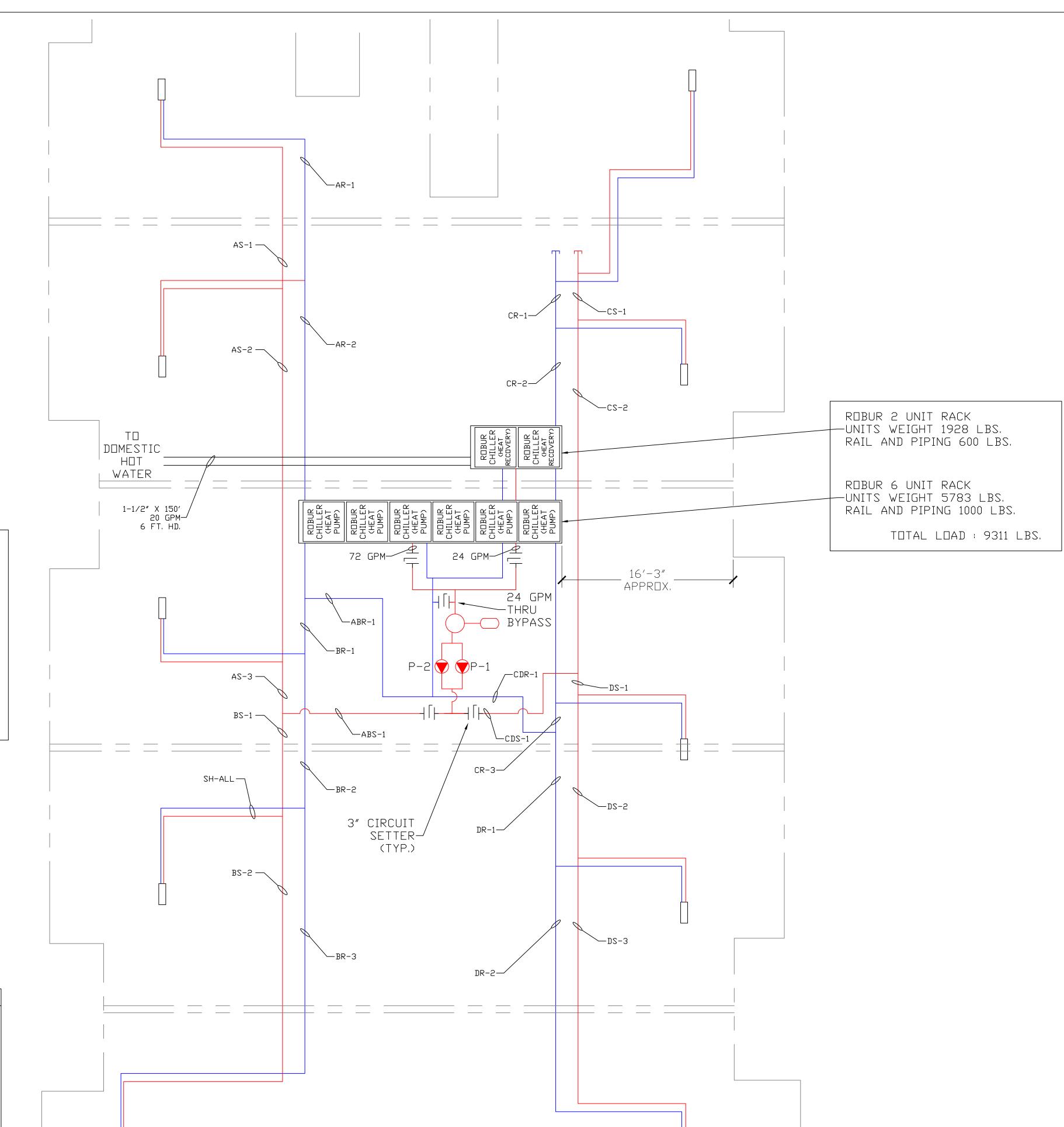
CHILLER SKID(S) (GAL.) RISER CAPACITY (GAL.) 100.0 SYSTEM PIPING CAP. (GAL.) 72.0 TDTAL : 200.0

PIPING PLAN

 $\overline{\text{SCALE: } 3/16" = 1'-0" (APPROX.)}$

| PIP | ING SYMB | OLS LEGEND | |
|-----------------------|-----------------------|---------------------|------------|
| MIXING VALVE | H C | EXPANSION TANK | |
| DIVERTING VALVE | AB | BY-PASS VALVE | - |
| PRESSURE REDUCE VALVE | $\bigoplus_{i=1}^{n}$ | DRAIN VALVE | 1 |
| PUMP | | THERMOMETER | |
| CHECK VALVE | - \ - | GAUGE | \bigcirc |
| UNIONS | ⊣ ⊢ | BALL VALVE | -1>-1- |
| CIRCUIT SETTER | 4[+ | AIR SEPARATOR | |
| ZONE VALVE | \bowtie | BACK FLOW PREVENTER | 1 |
| FLOWGARD VALVE | | AIR VENT | |
| | NΩ | <u> </u> ΓΕS: | • |

* MAX PIPE SPACING TO BE 12 INCHES OR 4 PIPE DIAMETERS APART OR WHICH EVER IS LESS.



SOUTH WING PIPING

| | Sout | h Wing Pipin | g Schedul | e | |
|--------------|------------------|--------------|-----------|-------------------|-----------------------|
| Pipe Section | Pipe Size (Inch) | Length (Ft) | GPM | Velocity (Ft/Sec) | PD (Ft) |
| ABS-1 | 2.5 | 16 | 60 | 4.05 | 0.39 |
| AS-1 | 1.25 | 14 | 12 | 3.07 | 0.47 |
| AS-2 | 1.25 | 36 | 24 | 6.15 | 4.19 |
| | | | | | |
| AS-3 | 1.5 | 5 | 36 | 6.52 | 0.52 |
| AR-1 | 1.5 | 14 | 12 | 2.17 | 0.21 |
| AR-2 | 1.5 | 30 | 24 | 4.35 | 1.52 |
| ABR-1 | 2.5 | 22 | 60 | 4.05 | 0.54 |
| SH-ALL | 1.5 | 150 | 12 | 3.07 | 5.09 |
| NEAR CHILLER | 3 | 50 | 120 | 5.68 | 1.81 |
| CHILLERS | | | | | 9.00 |
| FITTINGS | | | | | 3.00 |
| | | | | TOTAL | 26.73 |
| ABS-1 | 2.5 | 16 | 60 | 4.05 | 0.39 |
| BS-1 | 1.5 | 10 | 24 | 4.35 | 0.51 |
| BS-2 | 1.5 | 25 | 12 | 2.17 | 0.37 |
| BR-1 | 1.5 | 6 | 36 | 6.52 | 0.63 |
| BR-2 | 1.5 | 15 | 24 | 4.35 | 0.76 |
| BR-3 | 1.5 | 25 | 12 | 2.17 | 0.70 |
| ABR-1 | 2.5 | | | | 0.54 |
| | | | 60 | | |
| SH-ALL | 1.5 | 150 | 12 | 3.07 | 5.09 |
| NEAR CHILLER | 3 | 50 | 120 | 5.68 | 1.81 |
| CHILLERS | | | | | 9.00 |
| FITTINGS | | | | TOTAL | 3.00 22.4 6 |
| CDS-1 | 2.5 | 16 | 60 | 4.05 | 0.39 |
| CS-1 | 1.5 | 5 | 12 | 2.17 | 0.07 |
| CS-2 | 1.5 | 34 | 24 | 4.35 | 1.72 |
| CR-1 | 1.5 | | 12 | 2.17 | 0.07 |
| | | | 24 | | |
| CR-2 | 1.5 | | | 4.35 | 1.83 |
| CR-3 | 1.5 | | 36 | | 0.31 |
| CDR-1 | 2.5 | | 60 | 4.05 | 0.37 |
| SH-ALL | 1.5 | | 12 | 3.07 | 5.09 |
| NEAR CHILLER | 3 | 50 | 120 | 5.68 | 1.81 |
| CHILLERS | | | | | 9.00 |
| FITTINGS | | | | | 3.00 |
| | | | | TOTAL | 23.67 |
| CDS-1 | 2.5 | 16 | 60 | 4.05 | 0.39 |
| DS-1 | 1.5 | 2 | 36 | 6.52 | 0.21 |
| DS-2 | 1.5 | 16 | 24 | 4.35 | 0.81 |
| DS-3 | 1.5 | | 12 | 2.17 | 0.36 |
| DR-1 | 1.5 | | 24 | 4.35 | 0.66 |
| DR-2 | 1.5 | | 12 | 2.17 | 0.36 |
| CDR-1 | 2.5 | | 60 | | 0.37 |
| SH-ALL | 1.5 | | 12 | | 5.09 |
| NEAR CHILLER | 3 | | 120 | | 1.81 |
| CHILLERS | | 30 | 120 | 3.08 | 9.00 |
| FITTINGS | | | | | 3.00 |
| LILIUNGS | | | | | 3.00 |

APT FOREST A

PARK

PERFORMANCE engineering group

DRAWN BY: Gordon Faustich REVIEWED BY: APPROVED BY: **ISSUED FOR** 09/15/16 SUBMITTAL

09/22/16 REARRANGED
PIPING

09/27/16 PIPING

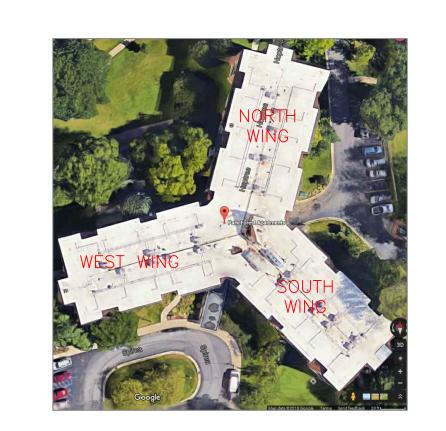
10/06/16 REMOVED REV RET

SUPPLY PIPING | 11/03/16 | REVISED PIPING | 11/08/16 | REVISED | CONTROLS |

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16-009P_E_ PARK FOREST





MAINS AND RISERS

120 GPM SYSTEM TOTAL 60 GPM PER SIDE 12.96 FT. OF HD. COMMON W/RISER 1.3 FT. HD. 3" NEAR CHILLER 9 FT. HD. CHILLERS 3 FT. HD. FITTINGS

PUMP: 120 GPM @ 27 FT. HD.

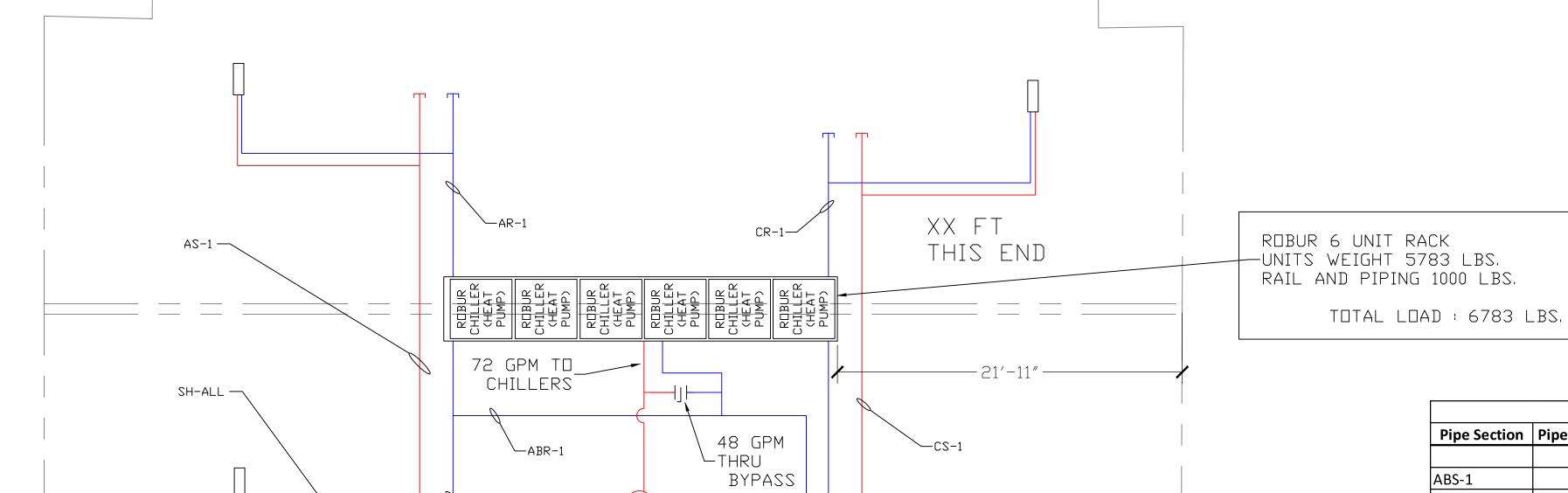
CHILLER SKID(S) (GAL.) RISER CAPACITY (GAL.) 100.0 SYSTEM PIPING CAP. (GAL.) 82.0 TOTAL : 203.0

PIPING PLAN

 $\overline{\text{SCALE: } 3/16" = 1'-0" (APPROX.)}$

| PIPING SYMBOLS LEGEND | | | | |
|-----------------------|--------------|---------------------|----------|--|
| MIXING VALVE | H C | EXPANSION TANK | | |
| DIVERTING VALVE | AB AB | BY-PASS VALVE | → | |
| PRESSURE REDUCE VALVE | \triangle | DRAIN VALVE | T | |
| PUMP | | THERMOMETER | | |
| CHECK VALVE | - ^- | GAUGE | \$ | |
| UNIONS | - ⊢ | BALL VALVE | -D | |
| CIRCUIT SETTER | 4[+ | AIR SEPARATOR | | |
| ZONE VALVE | \bowtie | BACK FLOW PREVENTER | | |
| FLOWGARD VALVE | | AIR VENT | ¢ | |

* MAX PIPE SPACING TO BE 12 INCHES OR 4 PIPE DIAMETERS APART OR WHICH EVER IS LESS.



3" CIRCUIT

CR-3-

DR-2-

NORTH WING PIPING

__DS-1

(TYP.)

CDR-1-

B2-5 ____

| Pipe Section | Pipe Size (Inch) | h Wing Pipir | GPM | Velocity (Ft/Sec) | PD (Ft) |
|-----------------------|--------------------|--------------|-------|-------------------|-----------------------|
| Pipe Section | Pipe Size (IIICII) | Length (Ft) | GPIVI | velocity (Ft/Sec) | PD (FL) |
| ABS-1 | 2.5 | 12 | 60 | 4.05 | 0.29 |
| ABS-2 | 2.3 | 25 | 60 | 6.28 | 1.74 |
| AS-1 | 1.25 | | 12 | 3.07 | 0.85 |
| AS-2 | 1.25 | | 24 | 6.15 | 2.92 |
| AS-3 | 1.5 | | 36 | 6.52 | 0.31 |
| AR-1 | 2 | 17 | 12 | 1.26 | 0.07 |
| ABR-1 | 2.5 | | 60 | 4.05 | 0.07 |
| SH-ALL | 1.25 | | 12 | 3.07 | 5.09 |
| NEAR CHILLER | 3 | 35 | 120 | 5.68 | 1.26 |
| CHILLERS | 3 | 33 | 120 | 3.06 | 9.00 |
| | | | | | |
| FITTINGS | | | | TOTAL | 3.00 24.9 4 |
| | | | | IOIAL | 24.3- |
| ABS-1 | 2.5 | 12 | 60 | 4.05 | 0.29 |
| ABS-2 | 2 | 25 | 60 | 6.28 | 1.74 |
| BS-1 | 1.5 | | 24 | 4.35 | 0.76 |
| BS-2 | 1.5 | 25 | 12 | 2.17 | 0.37 |
| BR-1 | 2.5 | 9 | 48 | 5.02 | 0.42 |
| BR-2 | 2 | 25 | 36 | 3.77 | 0.70 |
| BR-3 | 2 | 15 | 24 | 2.51 | 0.20 |
| BR-4 | 2 | | 12 | 1.26 | 0.10 |
| ABR-1 | 2.5 | | 60 | 4.05 | 0.42 |
| SH-ALL | 1.25 | | 12 | 3.07 | 5.09 |
| NEAR CHILLER | 3 | 35 | 120 | 5.68 | 1.26 |
| CHILLERS | <u> </u> | 33 | 120 | 3.08 | 9.00 |
| FITTINGS | | | | | 3.00 |
| FITTINGS | | | | TOTAL | 23.35 |
| | | | | TOTAL | 23.3. |
| CDS-1 | 2.5 | 12 | 60 | 4.05 | 0.29 |
| CS-1 | 1.5 | | 12 | 2.17 | 0.37 |
| CS-2 | 1.5 | | 24 | 4.35 | 0.37 |
| CR-1 | 1.5 | | 36 | + | 0.2 |
| CR-2 | 1.25 | | 24 | 6.15 | 2.79 |
| CR-3 | | | 24 | 6.15 | |
| CDR-1 | 1.5 | | | | 0.23 |
| | 1.25 | 30 | 60 | 6.28 | 2.09 |
| SH-ALL | 1.25 | | 120 | 3.07 | 5.09 |
| NEAR CHILLER CHILLERS | 3 | 35 | 120 | 5.68 | 1.26 |
| FITTINGS | | | | | 9.00 |
| כטאוווועט | | | | TOTAL | 3.00 24.74 |
| | | | | IOIAL | 24.74 |
| CDS-1 | 2.5 | 12 | 60 | 4.05 | 0.29 |
| DS-1 | 1.5 | 17 | 36 | 6.52 | 1.78 |
| DS-2 | 1.5 | | | | 1.27 |
| DS-3 | 1.5 | | 12 | 2.17 | 0.18 |
| DR-1 | 1.5 | | 36 | | 2.09 |
| DR-2 | 1.5 | | 12 | 2.17 | 0.18 |
| CDR-1 | 2 | | 60 | 6.28 | 2.09 |
| SH-ALL | 1.25 | | 12 | 3.07 | 5.09 |
| NEAR CHILLER | 3 | 35 | 120 | 5.68 | 1.26 |
| CHILLERS | 3 | 33 | 120 | 3.08 | 9.00 |
| FITTINGS | | | | | 3.00 |
| CDMILLL | I | | | | 5.00 |

APT

FOREST A PARK

PERFORMANCE engineering group DRAWN BY: Gordon Faustich REVIEWED BY:

APPROVED BY:

ISSUED FOR 09/15/16 SUBMITTAL

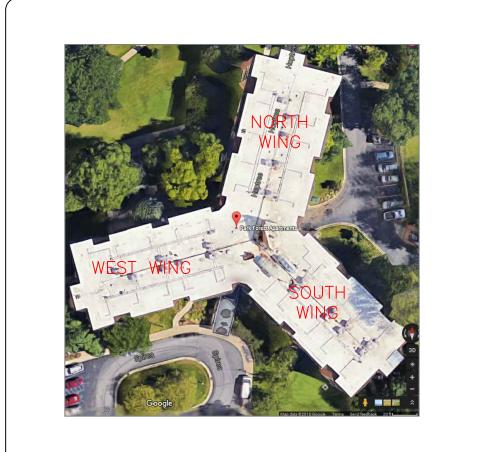
09/22/16 REARRANGED
PIPING

09/27/16 UPDATED TO
FIELD CHANGES

10/06/16 REMOVED REV RET
SUPPLY PIPING

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MAINS AND RISERS

120 GPM SYSTEM TOTAL 60 GPM PER SIDE 13.36 FT. OF HD. COMMON W/RISER 1.81 FT. HD. 3" NEAR CHILLER 9 FT. HD. CHILLERS 3 FT. HD. FITTINGS

<u>PUMP: 120 GPM @ 27 FT. HD.</u>

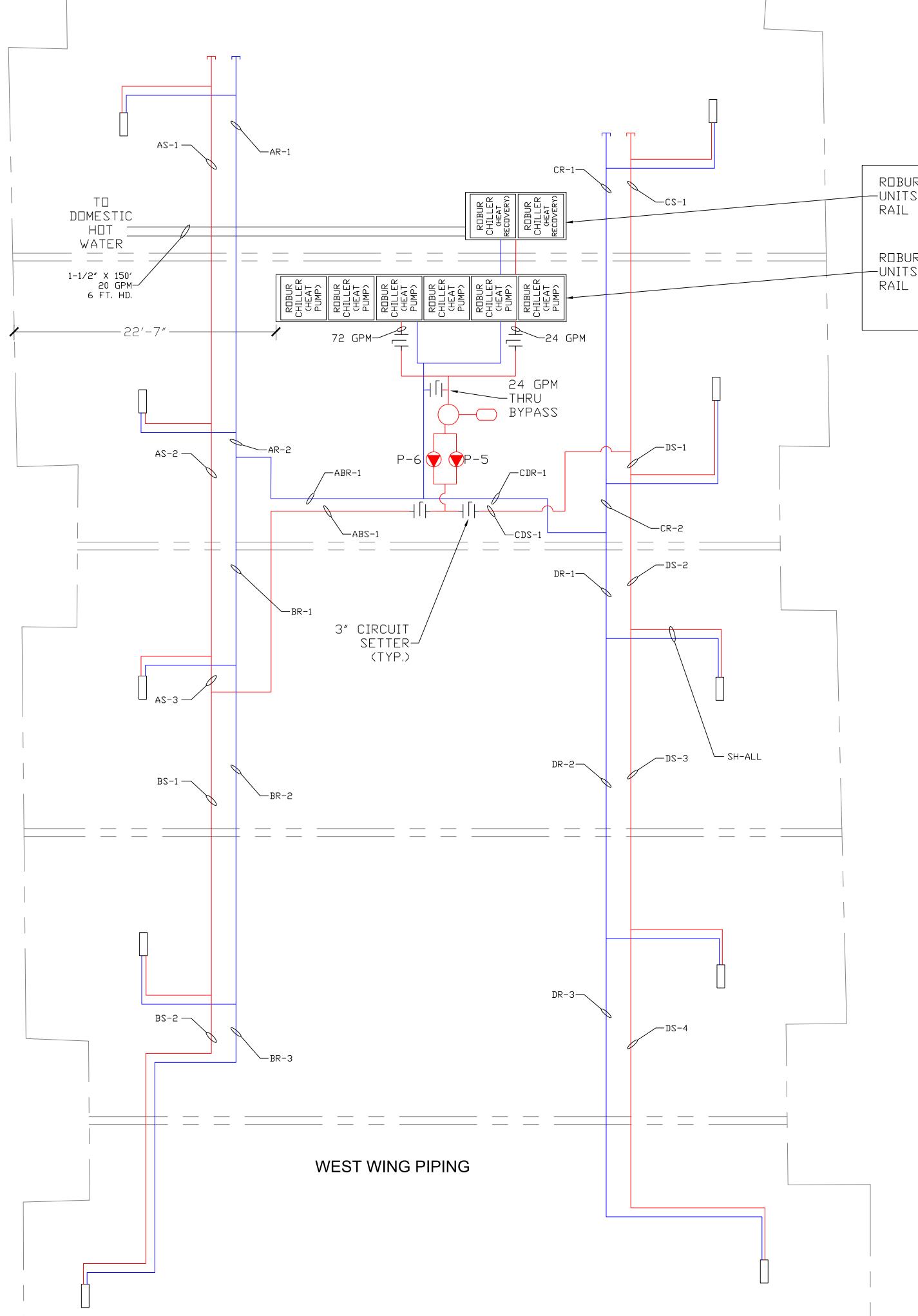
CHILLER SKID(S) (GAL.) RISER CAPACITY (GAL.) 100.0 SYSTEM PIPING CAP. (GAL.) 97.0 TOTAL : 225.0

PIPING PLAN

 $\overline{\text{SCALE: } 3/16" = 1'-0" (APPROX.)}$

| MIXING VALVE | H C | EXPANSION TANK | |
|-----------------------|------------------|---------------------|------------|
| DIVERTING VALVE | AB | BY-PASS VALVE | - ↓ |
| PRESSURE REDUCE VALVE | \triangle | DRAIN VALVE | T |
| PUMP | | THERMOMETER | |
| CHECK VALVE | - \ - | GAUGE | (|
| UNIONS | ⊣ ⊢ | BALL VALVE | → |
| CIRCUIT SETTER | 4[F | AIR SEPARATOR | |
| ZONE VALVE | \triangleright | BACK FLOW PREVENTER | 1 |
| FLOWGARD VALVE | | AIR VENT | ٩ |

* MAX PIPE SPACING TO BE 12 INCHES OR 4 PIPE DIAMETERS APART OR WHICH EVER IS LESS.



ROBUR 2 UNIT RACK —UNITS WEIGHT 1928 LBS. RAIL AND PIPING 600 LBS.

ROBUR 6 UNIT RACK -UNITS WEIGHT 5783 LBS. RAIL AND PIPING 1000 LBS.

TOTAL LOAD : 9311 LBS.

| | | t Wing Pipin | | | |
|---|---|---|---|--|---|
| Pipe Section | Pipe Size (Inch) | Length (Ft) | GPM | Velocity (Ft/Sec) | PD (Ft) |
| ABS-1 | 2.5 | 33 | 60 | 4.05 | 0.85 |
| AS-1 | 1.25 | 30 | 12 | 3.07 | 1.02 |
| AS-2 | 1.25 | 20 | 24 | 6.15 | 2.33 |
| AS-3 | 1.5 | 3 | 36 | 6.52 | 0.31 |
| AR-1 | 1.5 | 30 | 12 | 2.17 | 0.44 |
| AR-2 | 1.5 | 3 | 24 | 4.35 | 0.15 |
| ABR-1 | 2.5 | 20 | 60 | 4.05 | 0.49 |
| SH-ALL | 1.5 | 150 | 12 | 3.07 | 5.09 |
| NEAR CHILLER | 3 | 50 | 120 | 5.68 | 1.81 |
| CHILLERS | <u> </u> | 30 | 120 | 3.00 | 9.00 |
| FITTINGS | | | | | 3.00 |
| FITTINGS | | | | TOTAL | 24.49 |
| | | | | IOIAL | 24.43 |
| ABS-1 | 2.5 | 33 | 60 | 4.05 | 0.85 |
| BS-1 | 1.5 | 26 | 24 | 4.35 | 1.32 |
| BS-2 | 1.5 | 5 | 12 | 2.17 | 0.07 |
| BR-1 | 1.5 | 18 | 36 | 6.52 | 1.88 |
| BR-2 | 1.25 | 30 | 24 | 6.15 | 3.49 |
| BR-3 | 1.25 | 5 | 12 | 3.07 | 0.17 |
| ABR-1 | 2.5 | 20 | | | 0.49 |
| SH-ALL | 1.5 | 150 | 12 | 3.07 | 5.09 |
| NEAR CHILLER | 3 | 50 | 120 | 5.68 | 1.81 |
| CHILLERS | | 30 | 120 | 3.00 | 9.00 |
| FITTINGS | | | | | 3.00 |
| | | | | TOTAL | 27.17 |
| | | | | 101712 | 27.127 |
| | | | | | |
| CDS-1 | 2.5 | 23 | 60 | 4.05 | 0.56 |
| CS-1 | 2 | 25 | 12 | 1.26 | 0.10 |
| CR-1 | 2 | 27 | 12 | 1.26 | 0.11 |
| CR-2 | 2 | 4 | 24 | 2.51 | 0.05 |
| CDR-1 | 2.5 | 19 | 60 | 4.05 | 0.46 |
| CDK-1 | 2.5 | | | | |
| SH-ALL | 1.5 | 150 | 12 | 3.07 | 5.09 |
| | | | | 3.07 5.68 | |
| SH-ALL | 1.5 | 150 | 12 | | 1.81 |
| SH-ALL NEAR CHILLER | 1.5 | 150 | 12 | | 1.81 9.00 |
| SH-ALL NEAR CHILLER CHILLERS | 1.5 | 150 | 12 | | 1.81 9.00 3.00 |
| SH-ALL NEAR CHILLER CHILLERS FITTINGS | 1.5 | 150 50 | 12 120 | 5.68 TOTAL | 1.81 9.00 3.00 20.19 |
| SH-ALL NEAR CHILLER CHILLERS FITTINGS CDS-1 | 1.5 3 2.5 | 150 50 23 | 12 120 60 | 5.68 TOTAL 4.05 | 1.81 9.00 3.00 20.19 |
| SH-ALL NEAR CHILLER CHILLERS FITTINGS CDS-1 DS-1 | 1.5 3 2.5 2 | 150 50 23 2 | 12 120 60 48 | 5.68 TOTAL 4.05 5.02 | 1.81 9.00 3.00 20.19 0.56 0.01 |
| SH-ALL NEAR CHILLER CHILLERS FITTINGS CDS-1 DS-1 DS-2 | 1.5 3 2.5 2 | 150 50 23 2 14 | 12 120 60 48 36 | 5.68 TOTAL 4.05 5.02 3.77 | 1.81 9.00 3.00 20.19 0.56 0.01 0.39 |
| SH-ALL NEAR CHILLER CHILLERS FITTINGS CDS-1 DS-1 DS-2 DS-3 | 1.5 3 2.5 2 2 2 | 150 50 23 2 14 26 | 12 120 60 48 36 24 | 5.68 TOTAL 4.05 5.02 3.77 2.51 | 1.81 9.00 3.00 20.19 0.56 0.01 0.39 |
| SH-ALL NEAR CHILLER CHILLERS FITTINGS CDS-1 DS-1 DS-2 DS-3 DS-4 | 1.5 3 2.5 2 2 2 2 | 150 50 23 2 14 26 24 | 12 120 60 48 36 24 12 | 5.68 TOTAL 4.05 5.02 3.77 2.51 1.26 | 1.81 9.00 3.00 20.19 0.56 0.01 0.39 0.35 |
| SH-ALL NEAR CHILLER CHILLERS FITTINGS CDS-1 DS-1 DS-2 DS-3 DS-4 DR-1 | 1.5 3 2.5 2 2 2 2 2 | 150 50 23 2 14 26 24 9 | 12 120 60 48 36 24 12 36 | 5.68 TOTAL 4.05 5.02 3.77 2.51 1.26 3.77 | 1.81 9.00 3.00 20.19 0.56 0.01 0.39 0.10 0.25 |
| SH-ALL NEAR CHILLER CHILLERS FITTINGS CDS-1 DS-1 DS-2 DS-3 DS-4 DR-1 DR-2 | 1.5 3 2.5 2 2 2 2 2 2 | 150 50 23 2 14 26 24 9 26 | 12 120 60 48 36 24 12 36 24 | 5.68 TOTAL 4.05 5.02 3.77 2.51 1.26 3.77 2.51 | 1.81 9.00 3.00 20.19 0.56 0.01 0.39 0.10 0.25 0.35 |
| SH-ALL NEAR CHILLER CHILLERS FITTINGS CDS-1 DS-1 DS-2 DS-3 DS-4 DR-1 DR-2 DR-3 | 1.5 3 2.5 2 2 2 2 2 2 2 | 150 50 23 2 14 26 24 9 26 24 | 12 120 60 48 36 24 12 36 24 12 | 5.68 TOTAL 4.05 5.02 3.77 2.51 1.26 3.77 2.51 1.26 | 1.81 9.00 3.00 20.19 0.56 0.01 0.39 0.10 0.25 0.10 |
| SH-ALL NEAR CHILLER CHILLERS FITTINGS CDS-1 DS-1 DS-2 DS-3 DS-4 DR-1 DR-2 DR-3 CDR-1 | 1.5 3 2.5 2 2 2 2 2 2 2 2 2 2 | 150 50 23 2 14 26 24 9 26 24 19 | 12 120 60 48 36 24 12 36 24 12 60 | 5.68 TOTAL 4.05 5.02 3.77 2.51 1.26 3.77 2.51 1.26 4.05 | 5.09 1.81 9.00 3.00 20.19 0.56 0.01 0.39 0.35 0.10 0.46 |
| SH-ALL NEAR CHILLER CHILLERS FITTINGS CDS-1 DS-1 DS-2 DS-3 DS-4 DR-1 DR-2 DR-3 CDR-1 SH-ALL | 1.5 3 2.5 2 2 2 2 2 2 2 2 2 1.5 | 150 50 23 2 14 26 24 9 26 24 19 | 12 120 60 48 36 24 12 36 24 12 60 12 | 5.68 TOTAL 4.05 5.02 3.77 2.51 1.26 3.77 2.51 1.26 4.05 3.07 | 1.81 9.00 3.00 20.19 0.56 0.01 0.39 0.35 0.10 0.25 0.35 0.10 0.46 5.09 |
| SH-ALL NEAR CHILLER CHILLERS FITTINGS CDS-1 DS-1 DS-2 DS-3 DS-4 DR-1 DR-2 DR-3 CDR-1 SH-ALL NEAR CHILLER | 1.5 3 2.5 2 2 2 2 2 2 2 2 2 2 | 150 50 23 2 14 26 24 9 26 24 19 | 12 120 60 48 36 24 12 36 24 12 60 | 5.68 TOTAL 4.05 5.02 3.77 2.51 1.26 3.77 2.51 1.26 4.05 | 1.81 9.00 3.00 20.19 0.56 0.01 0.39 0.35 0.10 0.46 5.09 1.81 |
| SH-ALL NEAR CHILLER CHILLERS FITTINGS CDS-1 DS-1 DS-2 DS-3 DS-4 DR-1 DR-2 DR-3 CDR-1 SH-ALL | 1.5 3 2.5 2 2 2 2 2 2 2 2 2 1.5 | 150 50 23 2 14 26 24 9 26 24 19 | 12 120 60 48 36 24 12 36 24 12 60 12 | 5.68 TOTAL 4.05 5.02 3.77 2.51 1.26 3.77 2.51 1.26 4.05 3.07 | 1.81 9.00 3.00 20.19 0.56 0.01 0.39 0.10 0.25 0.35 0.10 0.46 5.09 |

APT

FOREST A PARK

DRAWN BY: Gordon Faustich REVIEWED BY: APPROVED BY: **ISSUED FOR**

09/15/16 SUBMITTAL

09/22/16 REARRANGED
PIPING

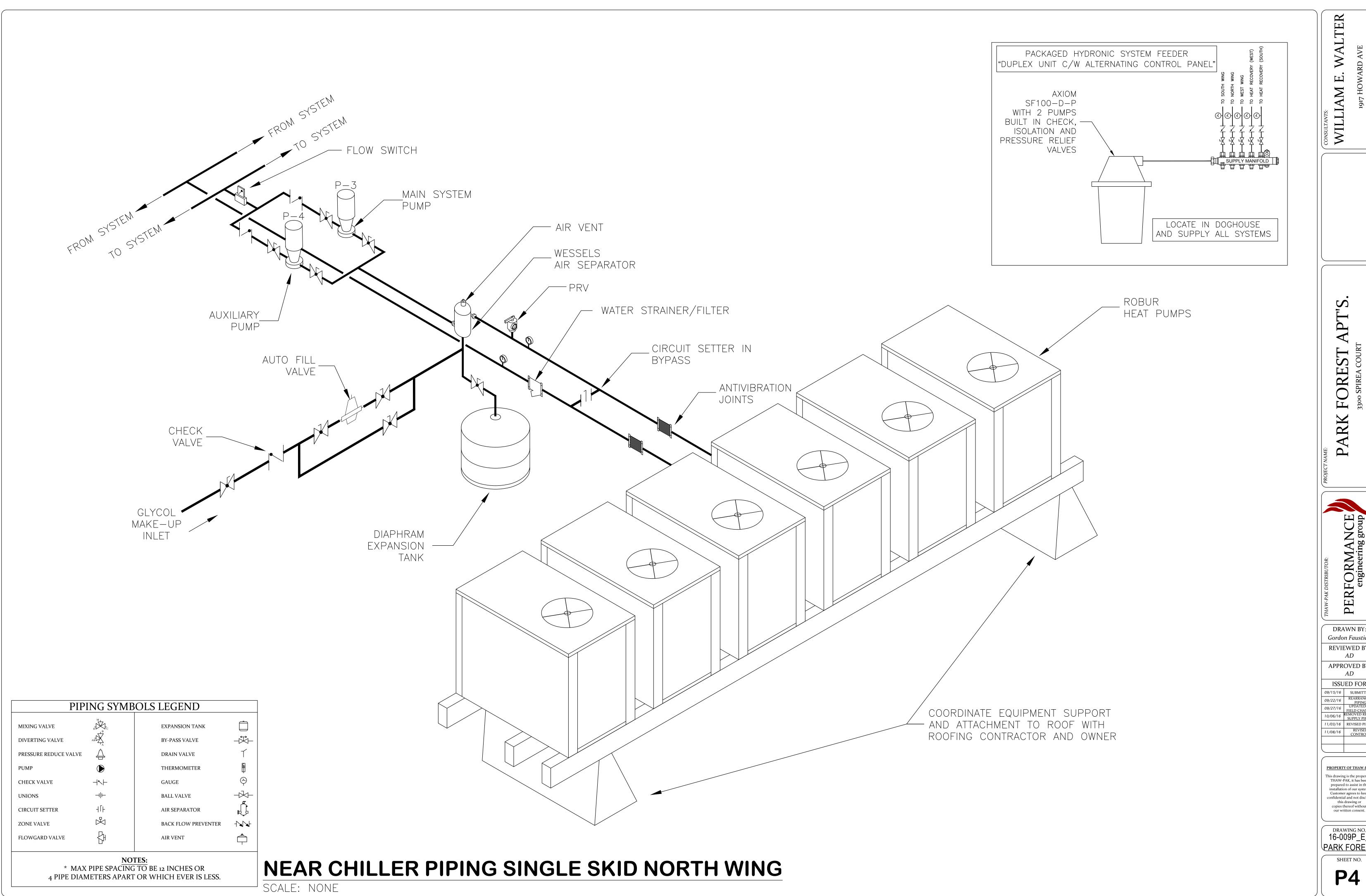
09/27/16 PIPING

10/06/16 REMOVED REV RET

SUPPLY PIPING | 11/03/16 | REVISED PIPING | 11/08/16 | REVISED | CONTROLS |

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16-009P_E_ PARK FOREST



APT" FOREST A

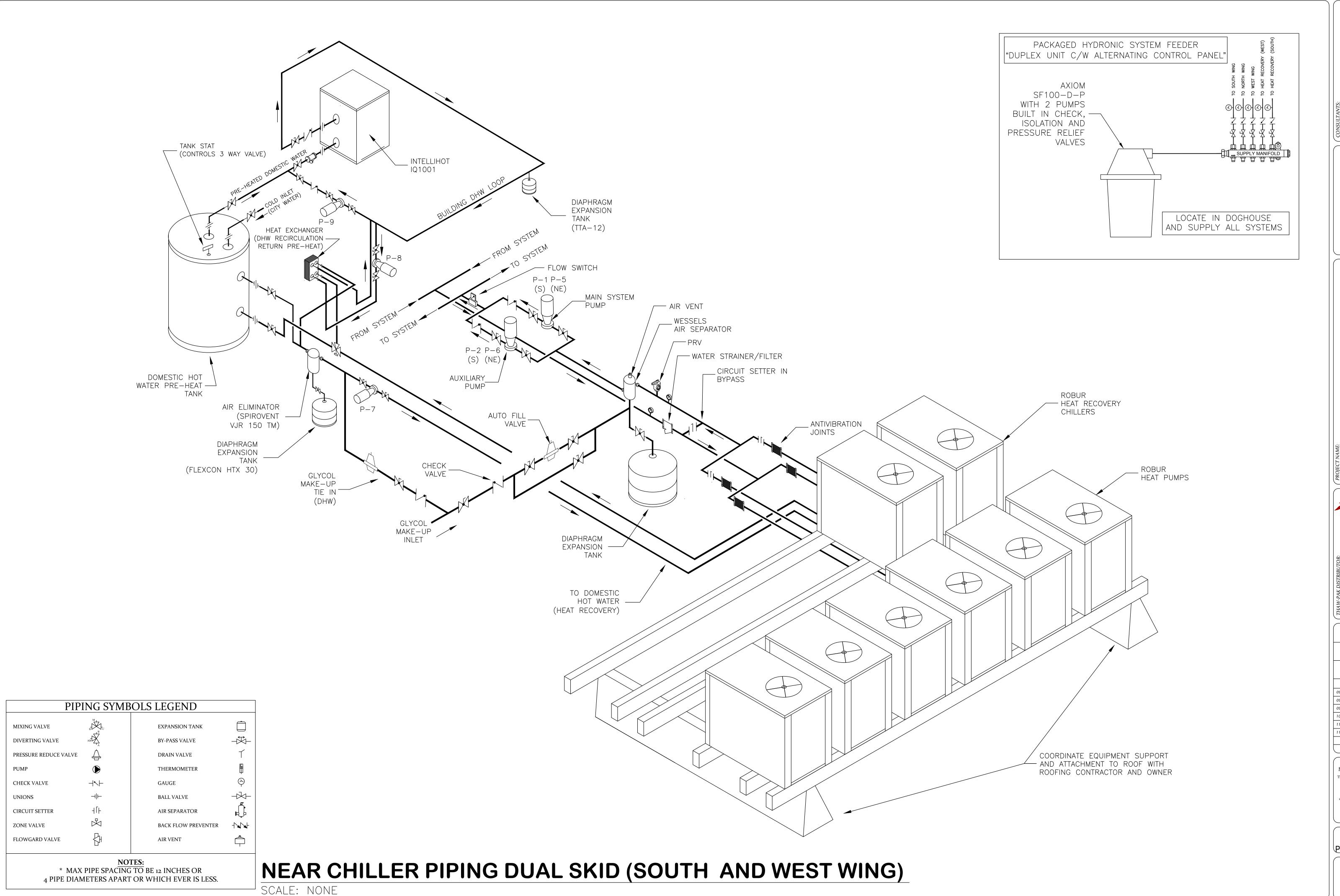
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APPROVED BY:

ISSUED FOR

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16-009P_E_ PARK FOREST



WILLIAM E. WALTEI

WILLIAM E. WALTEI

1917 HOWARD AVE

FLINT

MICHIGA

ST APT'S.

PARK FOREST APT
3300 SPIREA COURT

PERFORMANCE engineering group

DRAWN BY:
Gordon Faustich
REVIEWED BY:
AD

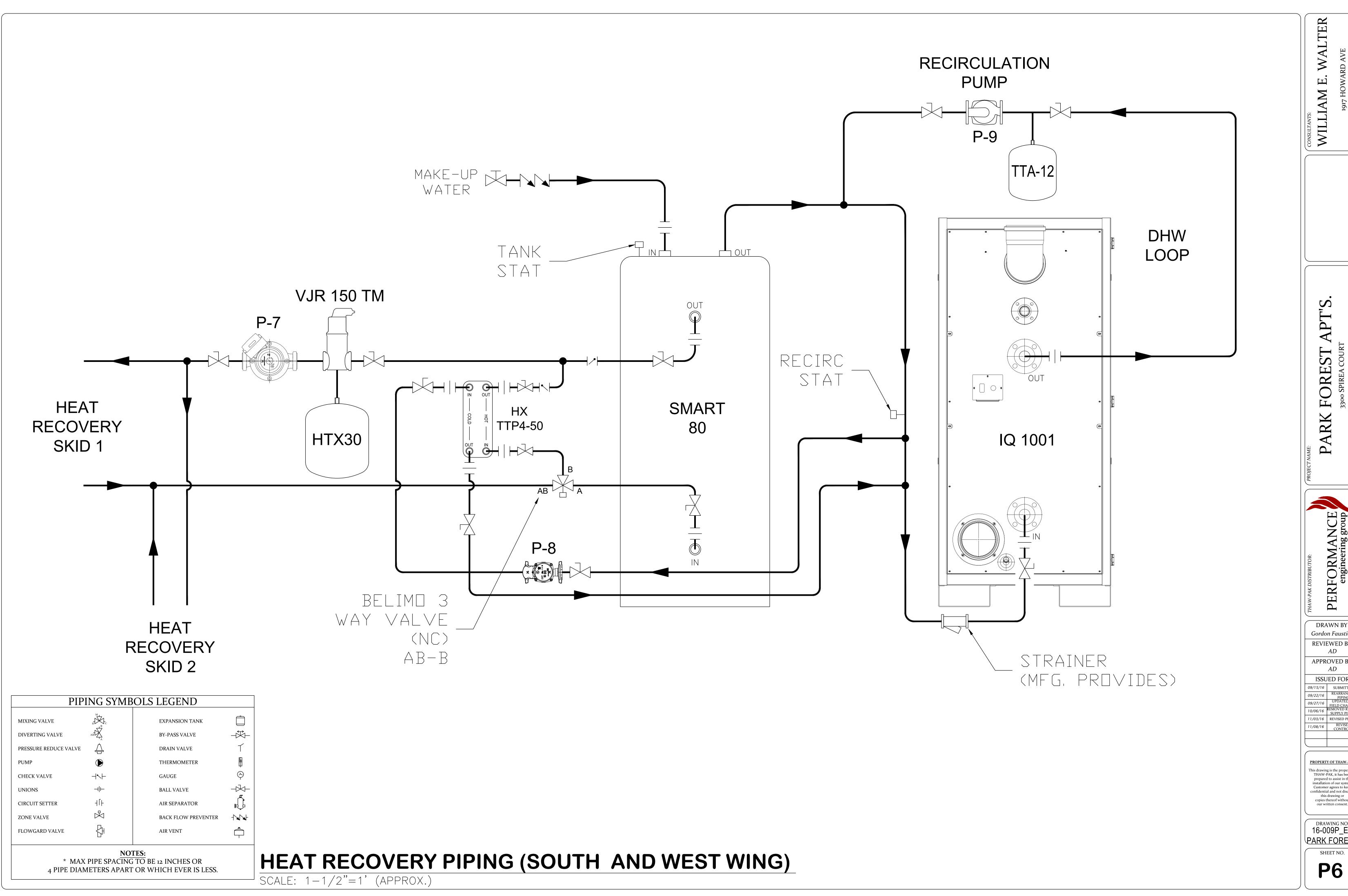
APPROVED BY:
AD

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prepared to assist in the
installation of our system.
Customer agrees to keep
confidential and not disclose
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copies thereof without
our written consent.

DRAWING NO. 16-009P_E_ PARK FOREST

SHEET NO.



DRAWN BY: Gordon Faustich REVIEWED BY:

APPROVED BY: **ISSUED FOR**

09/15/16 SUBMITTAL

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