

City Of Bend Approval Stamp:

KEYED NOTES:

1. CONNECT (N)2-1/2"HWS/HWR (GLYCOL) TO (E)2"HWS/HWR (GLYCOL) MAINS.
2. (E)SMP-1 WITH NEW 7.6" IMPELLARS.
3. CONNECT (N)2"HWS/HWR TO (E) MAINS.
4. RELOCATED CHEM FEEDER FOR (E)BOILER SYSTEM, SEE 6/M6.03 FOR DETAIL.
5. CONNECT (N)3/4"HWS/HWR TO (E)MAINS AND ROUTE TO RELOCATED CHEM FEEDER.

DESIGN CONDITIONS:	
OSA	5 degree F
Wind Speed	10 mph
Surface Temp	38 degree F
Propylene Glycol	45 %
Supply Temperature	132 degree F

hePEX tubing
3/4", 9" on center


ZONE A	Installation Area (sqft)	BTUH/sqft	Total Btuh	Amt of Tubing (ft) (area x 1.33)	# of loops @300' / loop	Active Loop Length (ft)	Total Loop Length (25ft leader length)	GPM/loop (0.0083gpm/ft) @ gpm per loop	Pressure Loss (ft2/loop)	Head Loss Per Loop (ft H2O)	MANIFOLD LOCATION
LOOP 1	200	136	27200	266	1	266	291	2.4	0.04	12	ZONE A
LOOP 2	200	136	27200	266	1	266	291	2.4	0.04	12	
LOOP 3	200	136	27200	266	1	266	291	2.4	0.04	12	
LOOP 4	200	136	27200	266	1	266	291	2.4	0.04	12	
LOOP 5	200	136	27200	266	1	266	291	2.4	0.04	12	
TOTAL	1000		136000	1330	5		1455	12.1			


ZONE F2	Installation Area (sqft)	8TUH/sqft	Total Btuh	Amt of Tubing (area x 1.33)	# of loops @300' of loop	Active Loop Length (ft)	Total Loop Length (25ft leader length)	GPM/loop (0.0083gpm/ft @ 1 gpm per loop)	Pressure Loss (ft20ft)	Head Loss per loop (ft H2O)	MANIFOLD LOCATION
LOOP 1		136	28560	279	1	279	304	2.6	0.042	1.3	ZONE F2
	TOTAL	210	136	28560	279	1	304	2.6	0.042	1.3	

CONTRACTOR TO PROVIDE A FULL SUBMITTAL PACKAGE INCLUDING THE PEX PIPING LOOP LAYOUT FOR THE SNOW MELT ZONE.



CONTRACTOR SHALL FLUSH ALL SNOW MELT
PIPING AND REFILL THE SYSTEM WITH
A 45% MIXTURE OF NOT TOXIC
POLYPROPYLENE ANTIFREEZE
(WITH CORROSION INHIBITOR)
PROVIDING FREEZE PROTECTION
TO -16F AND BURST PROTECTION TO -51F.

— SEE ~~M6.02~~ ⁴ FOR HE-1, PUMP, AND
SNOW MELT PIPING DETAIL IN
BOILER ROOM.


SEE  M6.03 FOR STEM WALL
PENETRATION DETAIL.

NEW SNOW-MELT ZONE
VALVE BOX "ZONE A".
SEE  FOR DETAIL.


— AREA OF NEW SNOW MELT AREA: ZONE A

SEE  

1-1/2" HWS/HWR
PRE-INSULATED PEX
BURIED BELOW GRADE.
COORDINATE ROUTING WITH
(E)LANDSCAPING.

SEE 

1" HWS/HWR
PRE-INSULATED PEX
BURIED BELOW GRADE.
COORDINATE ROUTING WITH
(E)LANDSCAPING.

NEW SNOW-MELT ZONE
VALVE BOX FOR "ZONE F2"
SEE  FOR DETAIL.

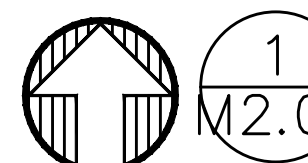
- HWS/HWR DN THRU SLAB
TO TUNNEL FOR BUILDING
A SERVICE.

(E)2* SMS/SMR
TO (F)ZONE F

(E)HWS/HWR TO BUILDING
F SERVICE

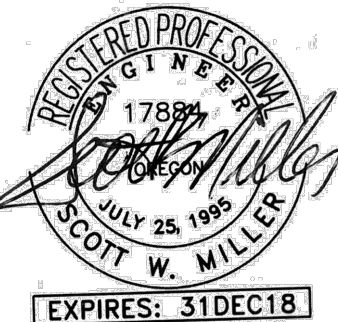
(E) SNOW MELT
AREA (ZONE F).

— (E)SNOW-MELT ZONE F
VAULT.



MECHANICAL SNOW MELT SYSTEM

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M2.01

BLRB ARCHITECTS, P.S.