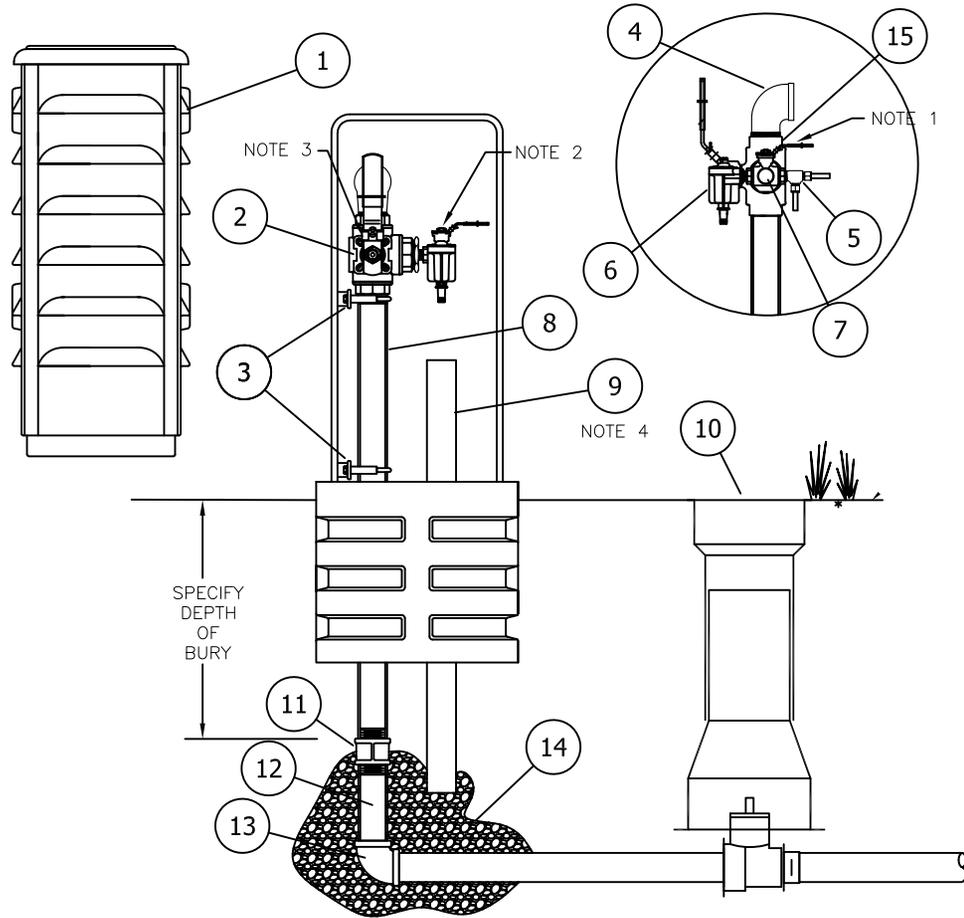


#82 FREEZE PROOF HYDRANT



ITEM	ITEM / DESCRIPTION	BY OTHERS	OPTIONAL
1	UV RESISTANT LOCKABLE LID		
2	2" 3-WAY S.S. BALL VALVE		
3	MOUNTING BRACKET		
4	2" NPT S.S. DISCHARGE		
5	S.S. SAMPLING POINT		
6	FREEZE PROTECTION VALVE		
7	1/2" 3-WAY S.S. BALL VALVE		
8	2" S.S. WATERWAY		
9	3" min. PVC DRAIN	X	
10	VALVE BOX	X	
11	2" S.S. COUPLING	X	X
12	2" S.S. NIPPLE	X	X
13	2" S.S. ELBOW	X	X
14	1" CLEAN ROCK	X	
15	THREAD 10-32 DRAIN HOLE		

LAYOUT NOTES:

- 1.) 3-WAY SAMPLING VALVE SHOWN IN THE FREEZE PROTECTION POSITION.
- 2.) 3-WAY SAMPLING VALVE SHOWN IN THE SAMPLING POSITION.
- 3.) MAIN 2" 3-WAY BLOW-OFF VALVE SHOWN IN THE FREEZE PROTECTION POSITION.
- 4.) A DRAIN SHALL BE INSTALLED TO ALLOW THE FREEZE PROTECTION VALVE TO DRAIN BELOW THE FROST LINE.
 - @ 20°F - APPROXIMATELY 13 GALLONS PER DAY
 - @ -10°F - APPROXIMATELY 42 GALLONS PER DAY

THE EXACT AMOUNT OF WATER DISPENSED DEPENDS ON AMBIENT AIR TEMPERATURE, MAKE UP WATER TEMPERATURE, AND DURATION OF COLD SPELL.

The #82 Freeze Proof Sampling Station shall be a standard 60" bury, with a 2" MIP inlet and a 2" NPT threaded discharge. A 1/2" Stainless Steel T compression shall be located before the discharge to allow for sampling. A 2" Stainless Steel Ball Valve shall control the flow of water for the main discharge. The unit shall be fully enclosed in a UV resistant lockable cover and when opened, the station shall require no key for operation. All water flow must be thru Stainless Steel and all operational parts shall be serviceable from above ground without any digging. A temperature activated water relief valve shall maintain a controlled water temperature within the waterway by opening the valve port when the water temperature reaches 43°F and remain open until warmer water reaches the port, thus creating a non freezing environment. The freeze proof cycle shall repeat as often as necessary to prevent freezing..

Unit model # shall be 82 as manufactured by Kupferle Foundry Company, St. Louis MO (1-800-231-3990), or approved equal.



VILLAGE OF WHEELING
ENGINEERING DIVISION
2 COMMUNITY BOULEVARD
WHEELING, IL 60090
WWW.WHEELINGIL.GOV

WATER SAMPLING STATION

VILLAGE OF WHEELING
SPECIFICATIONS AND DETAILS
FILE LOCATION
T:ENGINEERINGSTANDARDS

REVISIONS
K.A.G. 12-11-18 AUTOCAD FILE
K.A.G. 1-9-20 REVISED MODEL #

DETAIL NO.

W-5