



COMMUNITY DEVELOPMENT AND SERVICES BUILDING AND FIRE SAFETY FIRE SAFETY ENGINEERING

240 Water Street, P.O. Box 95050, Henderson NV 89009-5050
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Fire Pump Plan Review Checklist

GENERAL INFORMATION:

1. Plan Reviewer's Name: _____ Date: _____
2. Date of Plan: _____ Last Revision: _____ Date of Revision: _____
3. NICET Level: I II III IV or P.E. Name: _____
4. General Comments: _____
5. City of Henderson General Notes: Y N
6. Pump GPM rating, Head (pressure), are provided: Y N
7. Copy of the factory pump test curve is provided: Y N
8. Complete material submittals are provided (including fire pump): Y N
9. Plan view and cross-sectional views of installed equipment are provided: Y N
10. Equipment symbol legend is provided: Y N
11. Room Dimensions are provided: Y N
12. Driver, pump, and controller manufacturer, respective models, and driver type are specified: Y N

(Check an answer. Space is provided at the end of each section for written comments and explanations.)

SITE PLAN:

- 1.1 Underground piping plan provided: N/A Y N
- 1.2 Witnessed flow test included or HGL no more than 6 months old: Y N
- 1.3 North arrow shown correctly on all drawings: Y N
- 1.4 Graphic scale shown correctly on all drawings: Y N
- 1.5 Fire Department Connection (FDC) location is acceptable: N/A Y N
- 1.6 Exterior horn/strobe is provided at the FDC or riser room: N/A Y N
- 1.7 Post Indicator Valve (PIV) is located at least 5 ft. from the building: N/A Y N
- 1.8 Test header shown on the exterior wall: Y N

COMMENTS / EXPLANATIONS:

PUMP ROOM or BUILDING:

- 2.1 Fire pump room shall be 2 hour construction: Y N
- 2.2 Fire pump building shall be separated from the protected building by 50 ft.: Y N
- 2.3 Fire pump room and/or building protected with a fire sprinkler system: Y N
- 2.4 Source of heat to maintain 40°F(hard wired for electrically powered devices): Y N
- 2.5 Fire pump and/or building shall be provided with a floor drain. Y N
- 2.6 Provision shall be made for ventilation of fire pump room or house: Y N
- 2.7 Combustion air calculations provided (diesel powered fire pumps): Y N
- 2.8 Artificial light provided: Y N

COMMENTS / EXPLANATIONS:

SUCTION PIPING:

- 3.1 Proper size: Y N
- 3.2 OS & Y valve is located in the suction piping: Y N
- 3.3 No other valve except an OS&Y valve is within 50 ft of pump suction flange: Y N
- 3.4 Elbows in the proper orientation or more than 10 pipe diameters away from suction flange: Y N
- 3.5 Eccentric reducer (if needed) installed correctly: Y N
- 3.6 Pump by-pass: Y N
- 3.7 Liquid filled pressure gage shown on the suction side of the pump : Y N
- 3.8 Circulation relief valve shown: Y N

COMMENTS / EXPLANATIONS:

DISCHARGE PIPING:

- 4.1 Proper size: Y N
- 4.2 Liquid filled pressure gage shown on the discharge side of the pump : Y N
- 4.3 Listed check valve: Y N
- 4.4 Listed discharge isolation valve (system side of check valve): Y N
- 4.5 Test header valve supervised in the closed position (note on drawing): Y N
- 4.6 Pressure relief valve (when required) is located between the discharge flange and check valve: Y N
- 4.7 Pressure relief valve shall discharge back into suction side of pump or other approved location: Y N

(Per City of Henderson Waste Water Municipal Code 14.14.020)

COMMENTS / EXPLANATIONS:

WATER FLOW TEST DEVICES:

- 5.1 Proper number of 2½” hose valves installed on test header: Y N
- 5.2 Test header piping of the proper size: Y N
- 5.3 Flow meter installed per the manufacturer’s instructions: N/A Y N
- 5.4 Proper size of flow meter: N/A Y N

COMMENTS / EXPLANATIONS:

JOCKEY PUMP:

- 6.1 Jockey pump bypasses fire pump: Y N
- 6.2 Separated and dedicated sensing line for the jockey pump: Y N
- 6.3 Sensing lines ½” diameter and of brass, copper, or stainless steel piping: Y N
- 6.4 No shut off valves in the sensing lines: Y N
- 6.5 Suction and discharge valves shall be indicating: Y N
- 6.6 Check valve in discharge line: Y N

COMMENTS / EXPLANATIONS:

ELECTRIC DRIVE FOR FIRE PUMPS:

- 6.11 Service connection dedicated to the fire pump installation: Y N
- 6.12 One disconnecting means for overcurrent protection installed to fire pump controller: Y N
- 6.13 Fire pump disconnecting means located remote from building disconnecting means: Y N
- 6.14 Y N
- 6.15 Y N
- 6.16 Y N
- 6.17 Alternate source of power provided: Y N
- 6.18 Maximum velocity does not exceed 32 feet per second: Y N
- 6.19 Gridded system(s) is (are) "peaked": N/A Y N
- 6.20 Grid "flow diagram" showing quantities and directions of flow is included: N/A Y N
- 6.21 Additional fixed flow(s) is (are) added at the proper location(s): N/A Y N

COMMENTS / EXPLANATIONS:

Signature(s) / Date(s): _____
