

SECTION XXXX

PANEL INTAKE SCREENS (Sample Specification)

PART 1. GENERAL

1.1 SUMMARY

- A. Provide intake panel screen(s) as specified herein and as shown on the drawings.

1.2 RELATED SECTIONS

- A. Section XXXX – Submittals

1.3 SUBMITTALS

- A. Submit in accordance per Section XXXX.
- B. Submit shop drawings, manufactures data and literature in accordance with Section XXXX prior to manufacturing screens.
- C. Panel Screens: Submit drawings showing screen length, width, depth, slot opening, materials of construction and assembly weight.

1.3 WARRANTY

- A. Manufacturing Warranty Period: One year from acceptance and furnish owner items found to be defective within the one year period.

1.4 QUALITY ASSURANCE

- A. Panel Screen: Screens shall be manufactured by an ISO 9000 Certified company, fabricated by ASME Section IX Certified welders and the manufacture shall provide evidence of experience in having supplied at least five assemblies of similar designs which have been in successful service for at least three years.

PART 2. PRODUCTS

2.1 INTAKE SCREEN

- A. Manufacturer: Hendrick Screen Company, P.O. Box 22075, Owensboro, Kentucky 42304-2075, (270) 685-5138, fax (270) 685-1729.
- B. Construction: Panel Screen shall be of Hendrick resistance welded V-wire screen construction with the specified slot opening. The V-wires shall be spaced apart during manufacture via resistance welding each wire at every intersection to the support members which run perpendicular to the wires. The inlet slots shall widen inwardly from the screen surface to minimize the chance of debris entrapment in the screen openings.
- C. Strength: Screen shall withstand a differential hydrostatic pressure of 625 pounds per square foot or 10 feet of water differential load. Design stress when determining strength shall be two thirds of material yield strength. Strength calculations verifying compliance with these criteria shall be provided upon request.
- D. Wire and Slot: The surface wire shall be Hendrick Screen Co. No. 90 Profile Bar. The screen slot opening shall be 0.069 inches. The open area for this slot opening shall be 43 %. Slot size shall be controlled and continuously monitored during manufacture. The slot openings shall have a standard deviation of no greater than 0.005 inch throughout the assembly.
- E. Capacity: The panel screen capacity shall be 1400 GPM at a average local through slot velocity, due to water removal not to exceed 0.5 feet per second. At the design flow rate, the pressure drop through the surface of the clean screen shall not exceed 0.1 psi. Hydraulic calculation verifying compliance to these criteria shall be provided upon request.

END OF SECTION