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SAMPLE SPECIFICATION

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DynaSeal

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SOIL REMEDIATION VACUUM PUMP SYSTEM.

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The system shall be designed to offer _____Acfm @ _____"Hg_v.

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Vacuum Pump: The Vacuum System shall be a Travaini *DynaSeal* unit capable to operate with no water or external cooling device other than the packaged air cooled unit up to 110 deg F ambient. Only systems with a closed loop oil sealed air cooled designs will be considered. The pump shall be of cast iron construction with a stainless steel shaft. Shaft Sealing shall be with single face mechanical seals, packed glands are not acceptable. The pump shall be of the monoblock design up to 20HP to facilitate flange mounting to a standard nema C-face motor. Motor mounted units with the impeller mounted on the motor shaft are not acceptable. The pump shall be a flat port plate design, and capable to handle water and vapor carried over in the suction from the process. Conical design and rotary screw pumps are not acceptable.

*Knock-Out Separator/Reservoir: The pump shall pull vapors and ground water into a _____ gallon separator/reservoir with a minimum capacity of 80 gallons manufactured in carbon steel, with an option of hot dipped galvanizing or epoxy coating. The reservoir shall include a sight level indicator and Three level switches which will sense high or low levels in the reservoir and operate a liquid transfer pump. (*Recommended on inlet side of vacuum pump for ground water separation)

Liquid Transfer pump: The pump shall be of the end suction design motor mounted centrifugal pump with a minimum material requirement of cast iron with bronze impeller. The pump suction line shall include a basket type strainer with a fine mesh screen to filter out most impurities from the process.

Control Panel: Optional

A skid mounted control panel shall be furnished with NEMA 4 enclosure and include the following as a minimum.

- Full voltage magnetic starter for both the vacuum pump and removal pump complete with thermal overload protection.
- 110 volt control circuit transformer
- stop/start buttons
- running lights

All components shall be mounted and piped on a common skid.

Optional : Explosion proof motors and controls will be provided on applications requiring Class-1 GR-D or Nema-7 locations.

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