# **ELEVATOR SUMP PUMP SYSTEM**

The contractor shall furnish and install a ParkUSA EleVader Model ELV-XX complete pump, separator, and control and ystem as shown on the drawings. Pump(s) shall be provided for each elevator hoistway.

The system shall be capable of pumping all water & fluids automatically from the elevator pit as required by ASME ATT.1/CSA PA4 Safety Code for Elevators and Escalators, 2007, Section 2.2.2.1 me, peytem shall function automatically to remove water and fluids from the pit automatically without any human intervention. Systems that do not remove all

pit prior to discharge into the public sanitary sewer as required. Pumping into the storm sewer is not permitted. Systems that do not remove the oil will not be accepted. il-water separator or equivalent protection shall be used to treat oily wastewater automatically from the elevato

FLOOR

SHUT OFF VALVE VALVE VALVE

SHUT OFF

SUMP

ELEVATOR HOISTWAY

ELEVATOR HOISTWAY #2

ELEVATOR HOISTWAY

PUMP CONTROL
PANEL W/ HIGH
PANEL ALARMS

—TO BLDG BAS

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applied of SORM ig Jul 1011, sound win a per haven received and applied of SORM ig Jul 1011, sound win a per haven received production. Refer bump shill be constructed and treated on meet Jul 725 shanders and shall include thermite given the water level covering only 50% of the most creating and shall be operating when the construction of their continuously of their continuously of their continuously or intermitently as required by the on off float switch control. The pump shall have a size 1.14° minimum discharge connection. The motor housing and fattering both sall be constructed of 304 Stainless See and have endoor central cests. The pump shall have a semi-open, more dagging (orders impelie and shall be designed for floor mounting complete with support legs.) abmersible sump pump is located in the sump area of the elevator (refer to plan drawings). The sump pump shall be erfelded in the Schedule, heavy dealy submersible type, scabile of pumping warler, deaffeld in the schedule, heavy dealy submersible type, scabile of pumping warler, deaffeld and oil at an inhimum singly of Schedule (2.2.5) (2000 GPH a.) (2

grade. Refer the schedule for capacity and size requirements. The separator unit is related outdoors buried below depending on the quantity of levelue or latest to the schedule for capacity and size requirements. The separator unit is nest from \$10 to 200 GPM, depending on the quantity of levelues or latest to the several, \$2000. The collivator separator shall be a pre-engineered enhanced grant's generator graphe of treating waterwater discharge free of periodic mylorizations, concentration of less than 100 parts are million. Operating grape of the influent 4.07 to 380° and wherein at temperature from 19° to 340° in growing or produce to elicitative control of the control of the schedule of th

## Control System

control system shall coasts of float sensors and a single control panel (REMA AX weatherpoof) that is wall mated ear the elevator shaft. The control panel shall be constructed and tested to meet ULGSS and advands and shall toused in a weatherpoof VEMA AX electrical entrolouse with a writing lemminal strip for field writing to the z-Box in

## control panel shall have the following functions:

a. Operates the sump pump, "On/Off" depending on shaft water levels. The panel shall have a "Hand-Off-Auto" switch, a "Pump Rum" light, and auxiliary contacts for a BAS system.

Indicates "Sump High Level" of the elevator shaft. In the event of pump malfunction, the panel shall have a "Sump High Level" Illuminated red light and high decibel warning horn, a "Silence" switch and auxiliary dry contacts for BAS

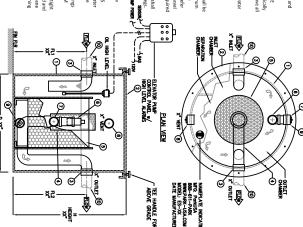
dry contacts for BAS system. NOTE: The presence of oil DOES NOT prevent the pump from operating. Indicates "High Oil Level" of the separator. In the event of a high accumulation of oil in the separator, the panel nall have a "Separator High Level" illuminated red light & high decibel warning horn, a "Silence" switch, and auxiliary

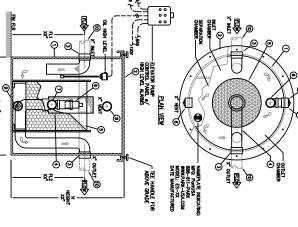
he panel also includes a separate over-current relay and field aljustable motor overload having a range of 5 to 5 mps, factory set at 8 mps, for this pump application. The control juned is fall have a combination manual is a factor of the part of must be factory set for automatic overload restart.

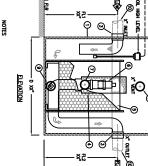
control system shall include there field dijustable from switches located in this sump; Pump Off. Pump On, and in Level. Provide a factory previned NEMA 6P water tight junction box with a din all mounted wring terminal strip, which is provided to the pump and floats into a NEMA 6P junction box. All cables between the pump and voide factory installed wring of pump and floats more and NEMA 6P junction box. All cables cheween the pump and control to the pump and pump and the pump and pump and the pump and the

## ptable Manufacturers:

ParkUSA Elevader System, 888-611-PARK, <u>www.Park-USA.com</u> or Engineered pre-approved equal, provided all of the specifications are met.







| STATE | STAT

150 15" 11/2"1750 1.0 230/1 OR 230/480/3
200 15" 2" 1750 1.5 230/1 OR 230/480/3
SEE ABONE FOR PUMP(5) SELECTION SEE ABOVE FOR PUMP(S) SELECTION

(3) ELEVATOR SUMP SYSTEM SCHEDULE

SYSTEM SCHEDULE

RSIBLE PUMP DATA

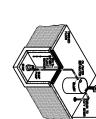
115/1 115/1 OR 230/1

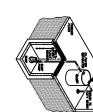
NOT TO SCALE (BELOW GRADE SEPARATOR)

- NOTES

  (1) SEPARATOR BASIN WITH INTERIOR/EXTERIOR
  EPOXY FINISH
- ASTITE REMOVABLE STEEL ACCESS COMER #/
  MOPPHINE MANCEL, SECURED #/ SE BOLTS
  AND GLADIEST HANGLES
   Z, 3' OR 4" MPT STEEL FILL OFF.G
   AL/STEP-ALOW AUTOMATIC SHIT-OFF VALVE
  AT GUILET PRING
- (5) OLEOPHILLIC COALESCING PLATE PACK TO SEPARATE OIL & SOLIDS
- (a) \* ADJISTABLE SOMMEN
   (b) 2\* ONL DAMN HET FULL CHIG W/ PLUG
   (c) 2\* ORDINA HET HALF CHIG W/ PLUG
   (d) 2\* ORDINA HET HALF CHIG W/ PLUG
   (d) PERMG BY ORDINS
- (2) ELEVATOR SEPARATOR DETAIL (2) NOT TO SCALE

# ParkUSA EleVader Sump /5g





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DATE :	ORDER #:	ENGINEER :	CUSTOMER :

DATE 4-10-16 DRN ENG DWG. ELVS-3H-DD ➤ 7

PUMP CURVE 100 150 Flow Rate (GPM)

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PROJECT :

DAIL

Elevator Sump System— Three (3) Hoistway Model ELVS