







PUMP CONTROLLER/ALARM DESIGN & NOTES

THE PUMP & CONTOLLES/ALAMA ARE BASE ON THE FOLLOWING CRITERIA:
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PIUMP DUSIN POINT 25 GPM @ 107 FT. OF HEAD

THIS IS A SIMPLEX SYSTEM - THE PUMP IS A GOULDS - FILTERED EFFLUENT PUMP MODEL.
20ESIO221, 1.0 HP, SINGLE PIASE WITH A FLOW RANGE OF 6-28 GPM, MAX, HEAD AT 20
GPM IS 170 FT. A EQUAL PUMP MAY BE APPROVED BY THE DISSION RIGHTING.

A EFFLUENT FILTER MUST BE INSTALLED ON THE OUTLET DRAIN OF THE SEPTIC TANK, PRIOR TO ANY EFFLUENT ENTERING THE PUMP CHAMBER. PROVIDE AN ACCESS PORT ABOVE THE FILTER FOR EASE OF FILTER REMOVAL, CLEANING AND REPLACEMENT.

THE CONTROL PANEL AND SWITCHES SHALL BE A SIE RHOMBUS MODEL NEX1046437, FOR A SIMPLEX VOLUME DOSED SYSTEM. SINGLE PHASE, NEMA 4X ENCLOSURE WITH PADLOCKABLE LATCH, HIGH LEVEL ALARM HORN AND LIGHT, AND ON, OFF AND HIGH LEVEL ALARM FLOAT SWITCHES.

PLUMBING/INSTALLATION NOTES

THE FORCE MAIN IS TO BE 2" PVC PRESSURE PIPE RATED AT MIN. 160 PSI. WITH A MINIMUM COVER OF 24" BELOW FINISHED GRADE

THE CHECK VALVE IS TO BE A 2" BRASS BALL CHECK VALVE, PRESSURE RATED AT MIN. 150 PSI, TEMPERATURE RATED AT 180" F.

HE SHUT OFF VALVE IS TO BE A FULL PORT BRASS BALL VALVE WITH A HANDLE LEVER.

ALL GRAVITY LINES TO BE SCHEDULE 40 PVC.

PLUMBING TO BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITION OF THE VIRGINIA UNIFORM STATEWIDE BUILDING CODE (USBC) AND THE VIRGINIA PLUMBING CODE.

ELECTRICAL/INSTALLATION NOTES

THE PANEL BOX AND CONTROLLER/ALARM ARE TO BE MOUNTED ON A UNISTRUT CHANNELS & A 4"x4" STEEL POST NEAR THE PUMP CHAMBER OUT OF THE RANGE OF VEHICULAR TRAFFIC.

THE CONTROLLER/ALARM AND THE PUMP REQUIRE SEPARATE AND DEDICATED CIRCUITS.

NO SPLICES ALLOWED UNDERGROUND OR IN THE PUMP STATION FOR ELECTRICAL SERVICE OR FLOATS.

FOLLOW MANUFACTURERS INSTRUCTIONS FOR INSTALLATION OF CONTROLLER, ALARM AND FLOAT SWITCHES.

ELECTRICAL WIRING TO BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITION OF THE VIRGINIA UNIFORM STATEWIDE BUILDING CODE (USBC) AND THE VIRGINIA ELECTRICAL CODE.

ELECTRICAL WIRING TO BE A MINIMUM OF 24" BELOW GRADE IN A 2" SCH40 PVC CONDUIT.

DATE: June 26, 2

HUGHES PASSOCIATES TECTS & ENGINEERS FINGS WE SAY I ROAMOGE, VIRGINA 24035

EQUIPMENT ARCHIT

JAMES RIVER EQUIPN
74 TAYLORS ROAD BOONES MILL,

NEW

DRAWN BY: <u>x</u>

SEPTIC SYSTEM PLAN & DETAILS



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