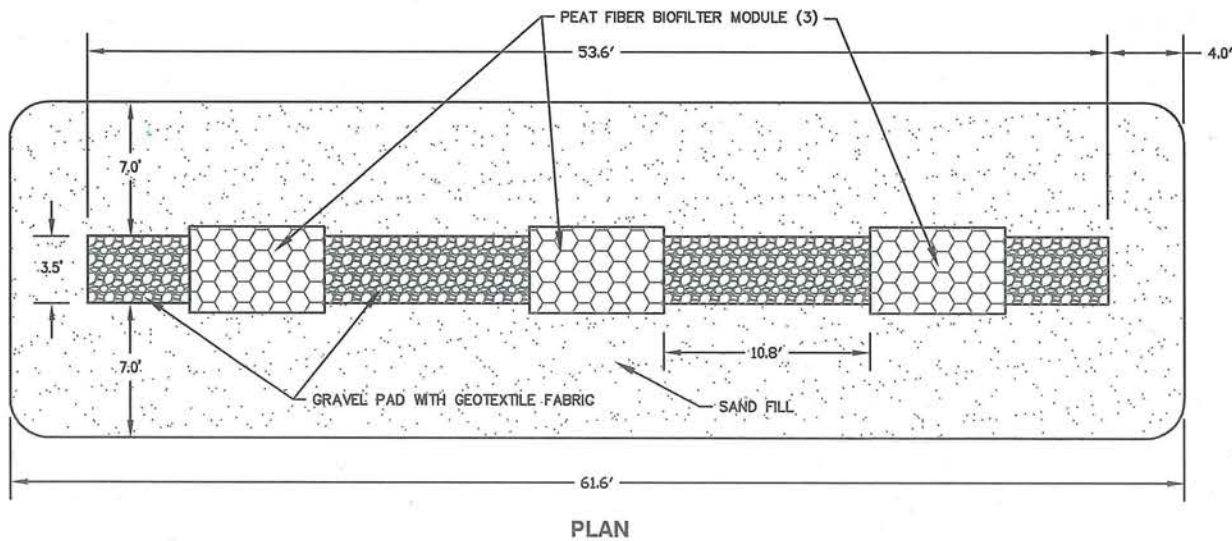
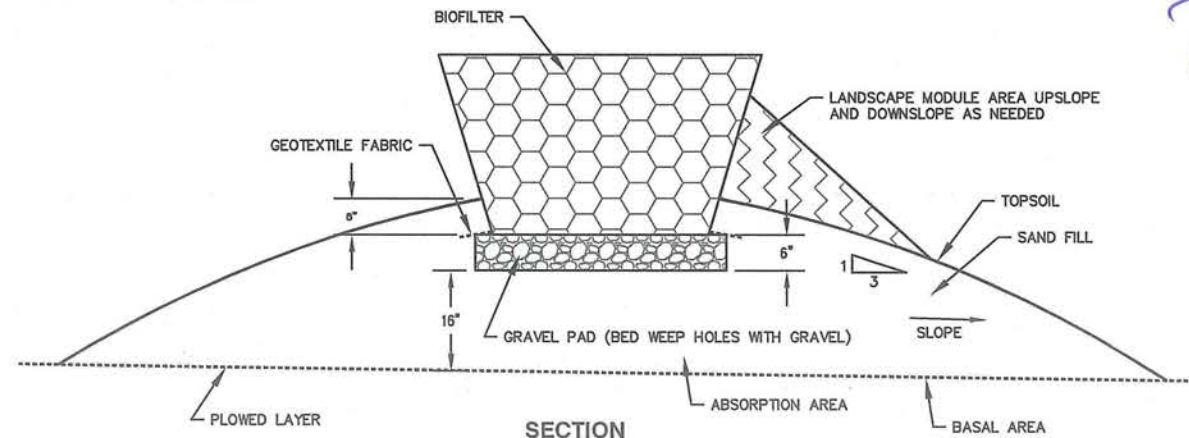


\\LE-PROJECT\PROJECTS\140204-020 CAD CIVIL\140204-020 MODOT SEPTIC.DWG
LAYOUT: 1
XREF DWG1: NONE
XREF DWG2: NONE
XREF DWG3: NONE
XREF DWG4: NONE
BY: JCARTER
DATE: 4/30/2015

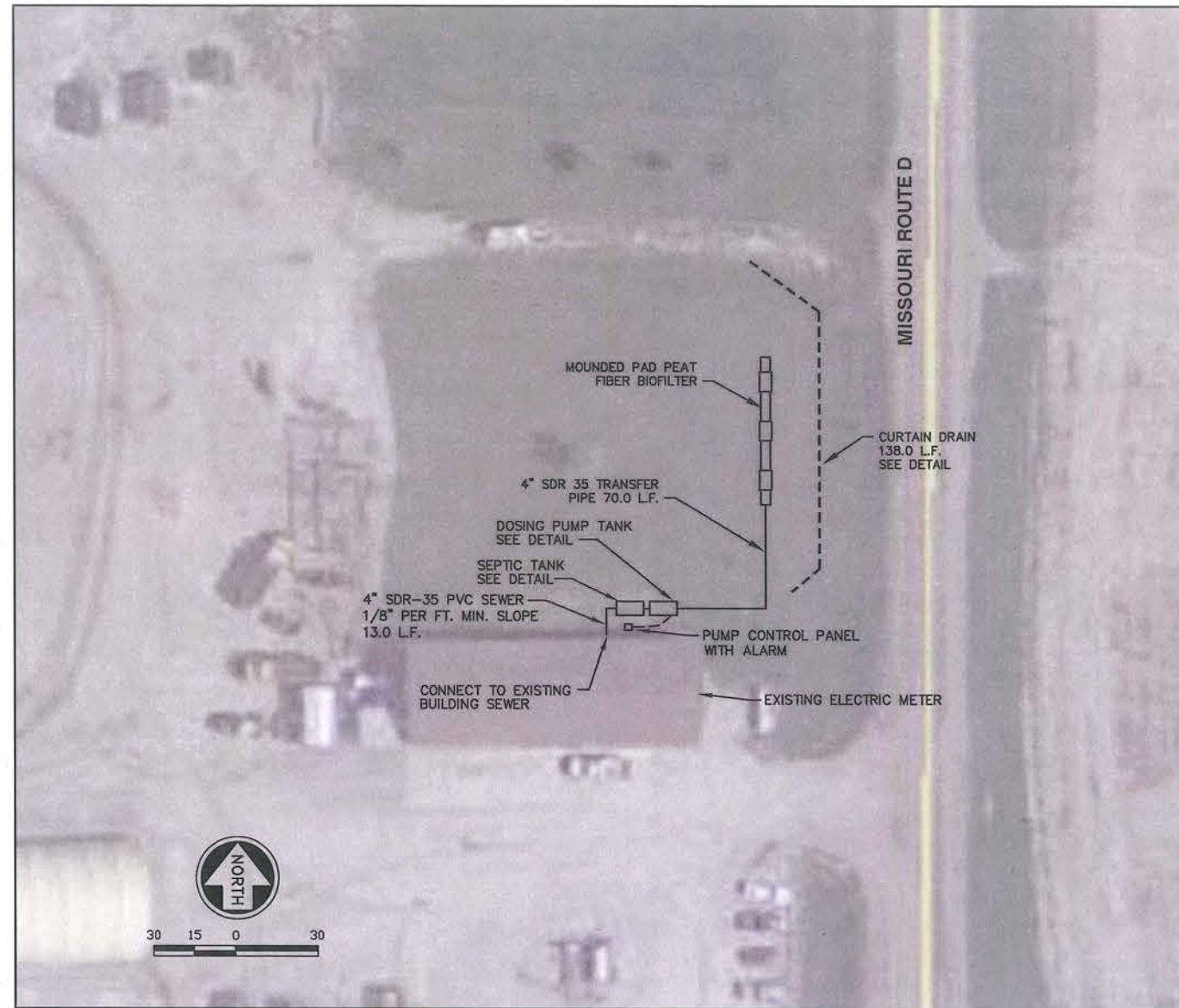


PLAN

MOUND SYSTEM DETAIL
NOT TO SCALE



SECTION



SEPTIC SYSTEM SITE PLAN

NOTES:

- SEWER DOSING PUMP SHALL BE AN ENGINEERED DEMAND DOSED PUMP PACKAGE AND SHALL INCLUDE PUMP, FLOAT SWITCHES ASSEMBLY, DISCHARGE ASSEMBLY, DISTRIBUTION VALVE AND PUMP CONTROL PANEL WITH HIGH WATER ALARM. PUMP PACKAGE SHALL INCLUDE A PUMP CAPABLE OF PUMPING 36 GPM AT 23 FT. TDH. USE LIBERTY PUMP MODEL 287 OR APPROVED EQUAL.
- EXISTING ELECTRIC SERVICE IS LOCATED ON EAST END OF BUILDING. PUMP REQUIRES SINGLE PHASE, 240 VOLT POWER.
- PLACE SHUTOFF VALVE AND CHECK VALVE IN PUMP TANK, ACCESSIBLE FROM THE SURFACE.
- DISPERSAL THROUGH MOUND SYSTEM SHALL BE BY PROGRAMMABLE DOSING TIMER. DOSING TO BE AS RECOMMENDED BY SYSTEM MANUFACTURER.
- SAND SHALL CONFORM TO ASTM C33 OR AS REQUIRED BY MANUFACTURER.

DESIGN NOTES:

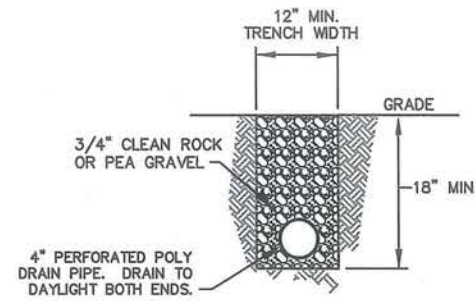
MAINTENANCE BUILDING/OFFICE
15 EMPLOYEES AT 25 GPD EACH
MAXIMUM TOTAL FLOW PER DAY= 375 GALLONS

ONE 1500 GALLON SEPTIC TANK= 1500 GALLONS
375 GALLONS PER DAY= 4 DAYS = 96 HOURS
MINIMUM DETENTION TIME

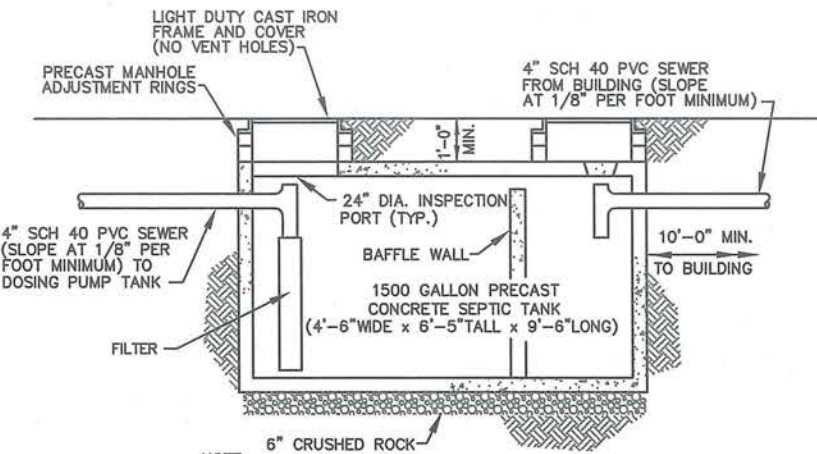
INDICATION OF HIGH WATER TABLE AT 12" DEPTH
CONVENTIONAL LEACHFIELD NOT APPROPRIATE.

SYSTEM SHALL BE TYPE A ANUA MOUNDED PAD
SYSTEM WITH PROGRAMMABLE DOSING TIMER,
INSTALLED PER ANUA DESIGN AND INSTALLATION
MANUAL, OR APPROVED EQUAL.

SOIL LOADING RATE= .05 GALLONS PER DAY/
PER SQ. FT. AT 12 INCHES DEPTH

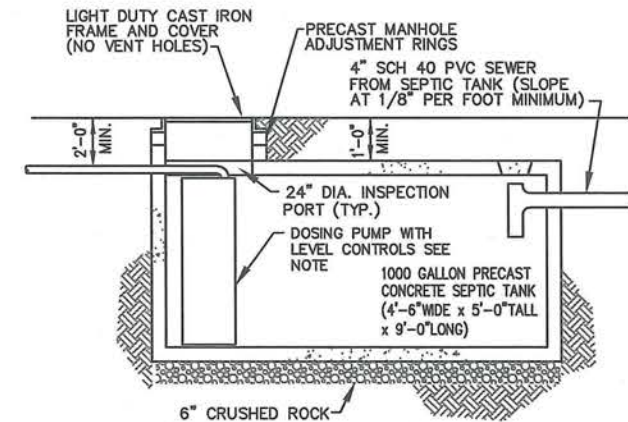


CURTAIN DRAIN DETAIL
NOT TO SCALE



NOTE:
PRECAST CONCRETE SEPTIC TANKS SHALL BE
S.I. PRECAST (SUHOR INDUSTRIES) 1500 GALLON
TWO CHAMBER SEPTIC TANK" OR EQUAL

SEPTIC TANK DETAIL
NOT TO SCALE



NOTE:
PRECAST CONCRETE SEPTIC TANKS SHALL BE
S.I. PRECAST (SUHOR INDUSTRIES) 1000 GALLON
ONE CHAMBER SEPTIC TANK" OR EQUAL

DOSING PUMP TANK DETAIL
NOT TO SCALE



WILLIAMSBURG, MO. MODOT FACILITY
SEPTIC SYSTEM IMPROVEMENTS

ONSITE PLAN AND DETAILS

140204-020
SHEET NO.
1 OF 1

SHAFER, KLINE & WARREN, INC.
107 Butler Street, Macon, MO 63552-1628
660/385-6441 FAX: 660/385-6614

OFFICE LOCATIONS:
Columbia, MO
Hennepin, MN
Lenexa, KS
Macon, MO
North Kansas City, MO
Tulsa, OK

CIVIL ENGINEERS ELECTRICAL ENGINEERS MECHANICAL ENGINEERS LANDSCAPE ARCHITECTS LAND SURVEYORS LAND PLANNERS

Designed By: PW

Drawn By: DAB

Checked By: PW

Issue Date:

5

4

3

2

NO.

DATE

REVISIONS

BY

JOC

JOC

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JOC

PRW

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