GENERAL NOTES
1. THE DRAWINGS DEPICTED HEREIN REPRESENT PRELIMINARY LAYOUTS OF A WASTEWATER TREATMENT SYSTEM CAPABLE OF TREATING THE DOMESTIC WASTE CONSTITUENTS NOTED IN TABLE 1.
2. ECOPOD REACTOR BOX SHALL BE CONSTRUCTED OF AISI 304/304L STAINLESS STEEL.
3. TANK MATERIAL SHALL BE SINGLE WALL FIBERGLASS REINFORCED PLASTIC (FRP) PER ASTM D4097.
4. BLOWERS, WEIRS, CONTROL PANELS, AND VARIOUS SMALL PARTS WILL BE SHIPPED UNASSEMBLED AND SECURELY PACKAGED, TO BE INSTALLED BY CONTRACTOR.
5. SEE INSTALLATION GUIDE FOR INSTALLATION DETAILS.
6. CONTACT AN IWT/DELTA REPRESENTATIVE REGARDING DEVIATIONS FROM THESE STANDARDS.

TABLE 1
PROCESS PARAMETERS
DELTA E400D BOD ONLY

PARAMETER	MINIMUM	MAXIMUM
AVERAGE DAILY FLOW	-	4,000 GPD
PEAK DAILY FLOW	-	6,000 GPD
INFLUENT BOD_5	-	10 LB/DAY
AIR TEMPERATURE	-	115 °F
WATER TEMPERATURE	68 °F	68 °F
RELATIVE HUMIDITY	10%	90%
SITE ELEVATION	0 FT AMSL	3,000 FT AMSL

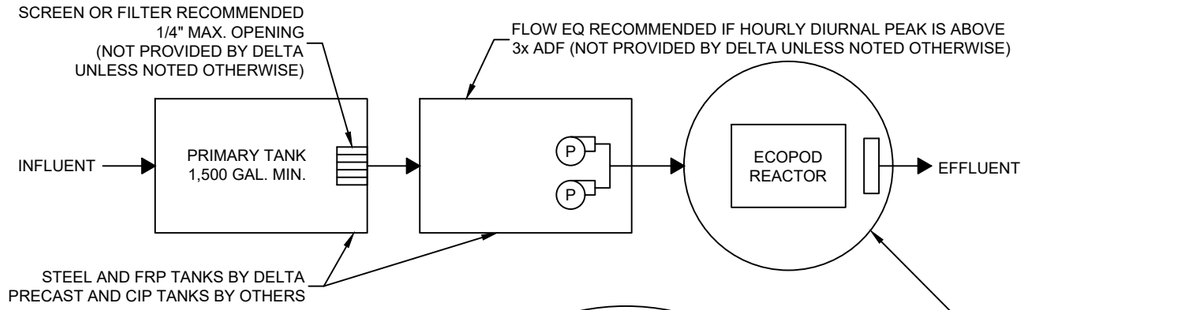
TABLE 2
AIR DEMAND

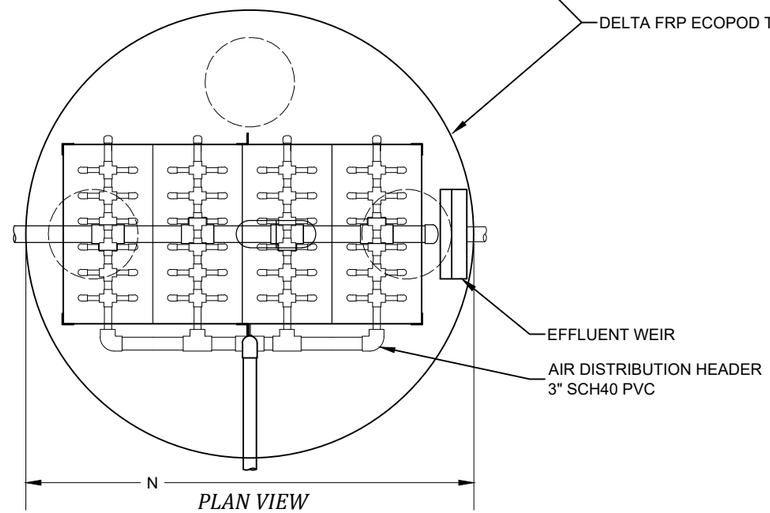
PARAMETER	UP TO 1,000 FT AMSL	1,000 TO 3,000 FT AMSL
STANDARD AIRFLOW	49 SCFM	56 SCFM
SITE AIR REQUIREMENT	55 ICFM	68 ICFM
BLOWER INLET AIR	67 ICFM	67 ICFM
AIR HEADER SIZE	3 IN	3 IN
MIN. TANK VENT X-SECT. AREA	27.6 IN^2 1 EA 6"	27.6 IN^2 1 EA 6"
BLOWER SELECTION	FPZ SCL K04-MS	FPZ SCL K04-MS[3]
NOISE LEVEL	65.0 dB(A)	65.0 dB(A)
AIR TEMPERATURE RISE[1]	41 F (22.8 C)	41 F (22.8 C)
BLOWER INLET DIAMETER	1.5 IN NPT	1.5 IN NPT
BLOWER OUTLET DIAMETER	1.5 IN NPT	1.5 IN NPT
MOTOR POWER RATING[2]	2 HP	2 HP
OPERATING POWER	1.1 KW	1.1 KW

1. REVIEW BLOWER DISCHARGE AIR TEMPERATURE WHEN SPECIFYING AIR MAIN PIPING MATERIAL.
2. REVIEW BLOWER MANUFACTURER CUTSHEETS FOR ADDITIONAL ELECTRICAL INFORMATION.
3. USE ALTERNATIVE BLOWER GARDNER DENVER 2L ON HIGH ELEVATION RANGE IF REQUIRED. SEE CALCULATIONS FOR DETAILS.

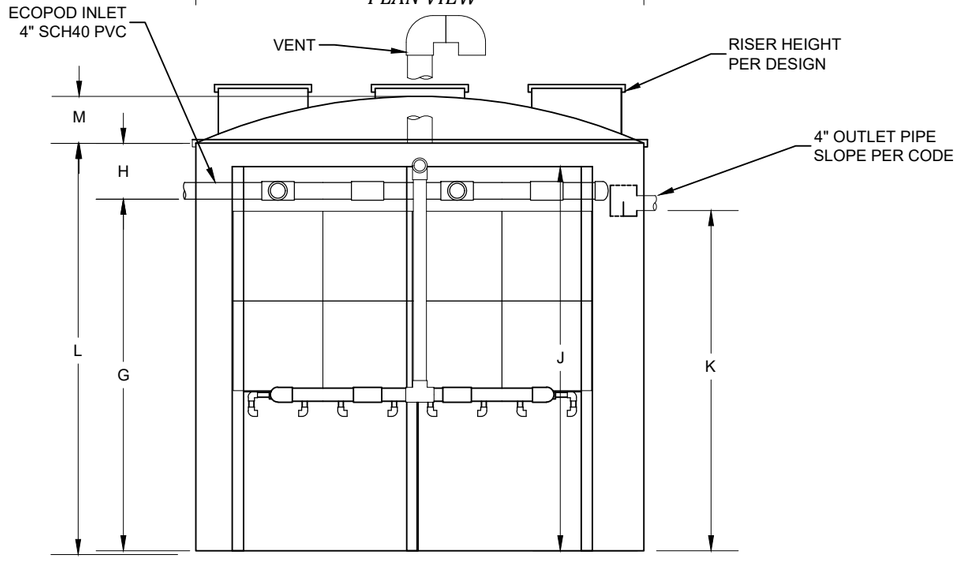
TABLE 3
STANDARD EQUIPMENT LIST

DESCRIPTION	QTY	MAKE	MODEL
ECOPOD REACTOR	1	DELTA	E400D
BLOWER	1	FPZ	PER TABLE 2
CONTROL PANEL	1	DELTA	PER DESIGN
24" S.S. EFFLUENT WEIR	1	DELTA	TROUGH-3.0





PLAN VIEW



ELEVATION VIEW

TABLE 4 (NOT APPLICABLE)
MINIMUM ECOPOD REACTOR DIMENSIONS

SITE ELEVATION		LAYOUT ID	A OVERALL LENGTH		B OVERALL WIDTH		B1 AIR HEADER CL DIM	
FT	M		IN	CM	IN	CM	IN	CM
INTENTIONALLY LEFT BLANK.								

TABLE 5 (NOT APPLICABLE)
RECOMMENDED ECOPOD TANK INTERIOR ENVELOPE DIMENSIONS

DIMENSION	IN	CM
C VESSEL FRONT SPACE		
D VESSEL REAR SPACE		
E AIR HEADER SIDE INSIDE SPACE		
F NO HEADER SIDE INSIDE SPACE		
INTENTIONALLY LEFT BLANK.		

TABLE 6
REQUIRED ECOPOD TANK INTERIOR ENVELOPE MINIMUM DIMENSIONS

DIMENSION	IN	CM
G INLET INVERT	92	234
H PLENUM SPACE ABOVE INLET INVERT	10	25
J MEDIA REACTOR HEIGHT	101	257
K OUTLET INVERT	89	226

1. ONE (1 EA.) INLET AND ONE (1 EA.) OUTLET ACCESS RISER REQUIRED, 24" DIA MINIMUM.
2. ONE (1 EA.) SLUDGE REMOVAL ACCESS RISER RECOMMENDED, 24" DIA. MINIMUM.

TABLE 7
VC ECOPOD TANK EXTERIOR DIMENSIONS

DIMENSION	IN	CM
L = G + H TANK WALL HEIGHT	102	259
M TANK DOME HEIGHT	12	30
N TANK DIAMETER[1]	102	305
1. PIPE PENETRATIONS EXTEND 3 IN. FROM TANK WALL		

NO.	DATE	INITIALS	DESCRIPTION

Delta Treatment Systems, LLC

DELTA ECOPOD E400D-VC
STANDARD DESIGN FOR BOD REDUCTION

GENERAL ARRANGEMENT

HORIZ. SCALE	PROJECT NO.
N/A	N/A
VERT. SCALE	DATE
N/A	07/20/2021
DRAWN BY	DESIGNED BY
CGK	AOB
DRAWING NO.	SHEET NO.
C1.0	01 of 01