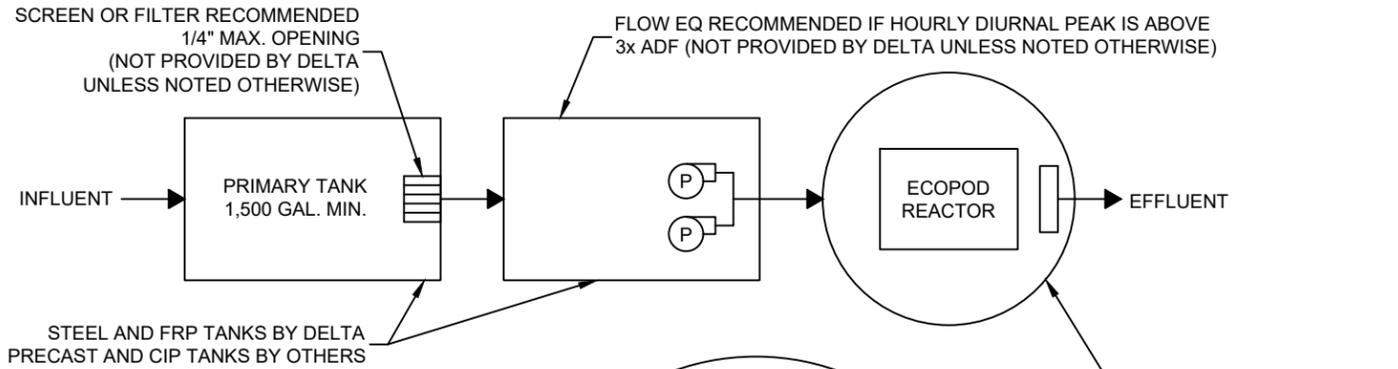


- GENERAL NOTES
- THE DRAWINGS DEPICTED HEREIN REPRESENT PRELIMINARY LAYOUTS OF A WASTEWATER TREATMENT SYSTEM CAPABLE OF TREATING THE DOMESTIC WASTE CONSTITUENTS NOTED IN TABLE 1.
 - ECOPOD REACTOR BOX SHALL BE CONSTRUCTED OF AISI 304/304L STAINLESS STEEL.
 - TANK MATERIAL SHALL BE SINGLE WALL FIBERGLASS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



**TABLE 1
PROCESS PARAMETERS
DELTA E300D BOD ONLY**

PARAMETER	MINIMUM	MAXIMUM
AVERAGE DAILY FLOW	-	3,000 GPD
PEAK DAILY FLOW	-	4,500 GPD
INFLUENT BOD ₅	-	7.5 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	36 SCFM	42 SCFM
SITE AIR REQUIREMENT	41 ICFM	51 ICFM
BLOWER INLET AIR	51 ICFM	51 ICFM
AIR HEADER SIZE	3 IN	3 IN
MIN. TANK VENT X-SECT. AREA	21 IN ² 2 EA 4" OR 1 EA 6"	21 IN ² 2 EA 4" OR 1 EA 6"
BLOWER SELECTION	FPZ SCL R30-MD	FPZ SCL R30-MD
NOISE LEVEL	72.2 dB(A)	72.2 dB(A)
AIR TEMPERATURE RISE ¹	29 F (16.1 C)	29 F (16.1 C)
BLOWER INLET DIAMETER	1.25 IN NPT	1.25 IN NPT
BLOWER OUTLET DIAMETER	1.25 IN NPT	1.25 IN NPT
MOTOR POWER RATING ²	2 HP	2 HP
OPERATING POWER	0.92 KW	0.92 KW

1. REVIEW BLOWER DISCHARGE AIR TEMPERATURE WHEN SPECIFYING AIR MAIN PIPING MATERIAL.
2. REVIEW BLOWER MANUFACTURER CUTSHEETS FOR ADDITIONAL ELECTRICAL INFORMATION.

**TABLE 3
STANDARD EQUIPMENT LIST**

DESCRIPTION	QTY	MAKE	MODEL
ECOPOD REACTOR	1	DELTA	E300D
BLOWER	1	FPZ	PER TABLE 2
CONTROL PANEL	1	DELTA	PER DESIGN
24" S.S. EFFLUENT WEIR	1	DELTA	TROUGH-3.0

**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**

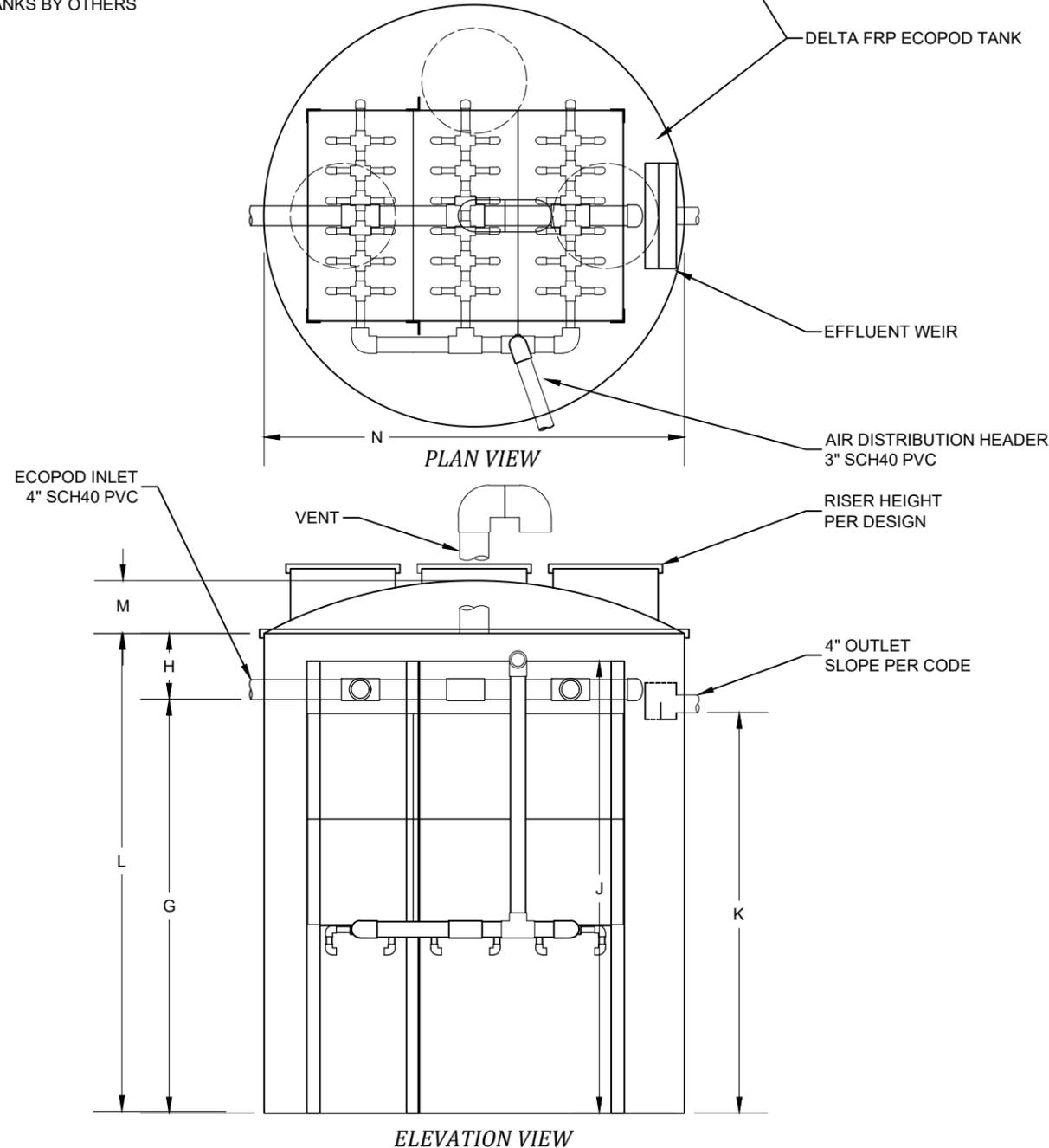
DIMENSION	IN	CM
G INLET INVERT	92	234
H PLENUM SPACE ABOVE INLET INVERT	10	25
J MEDIA REACTOR HEIGHT	101	257
K OUTLET INVERT	89	226

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	96	244

1. PIPE PENETRATIONS EXTEND 3 IN. FROM TANK WALL



NO.	DATE	INITIALS	DESCRIPTION


Delta Treatment Systems, LLC
 An Infiltrator Water Technologies Company

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**DELTA ECOPOD E300D-VC
STANDARD DESIGN FOR BOD REDUCTION**

GENERAL ARRANGEMENT

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

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