

- 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 OPTIONS:
 - CARBON STEEL PER ASTM A36 w/COATING PER DELTA STANDARDS,
 - FIBERGLASS REINFORCED PLASTIC (FRP) (NOT ALL MODELS),
 - PRECAST CONCRETE PER ENGINEER OF RECORD REQUIREMENTS, BY OTHERS,
 - CAST-IN-PLACE CONCRETE PER ENGINEER OF RECORD REQUIREMENTS, BY OTHERS.
 - BLOWERS, WEIRS, CONTROL PANELS, AND VARIOUS SMALL PARTS WILL BE SHIPPED UNASSEMBLED AND SECURELY PACKAGED, TO BE INSTALLED BY CONTRACTOR.
 - SEE INSTALLATION GUIDE FOR INSTALLATION DETAILS.
 - CONTACT AN IWT/DELTA REPRESENTATIVE REGARDING DEVIATIONS FROM THESE STANDARDS.

**TABLE 1
PROCESS PARAMETERS
DELTA E800D BOD ONLY**

PARAMETER	MINIMUM	MAXIMUM
AVERAGE DAILY FLOW	-	8,000 GPD
PEAK DAILY FLOW	-	12,000 GPD
INFLUENT BOD ₅	-	20 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

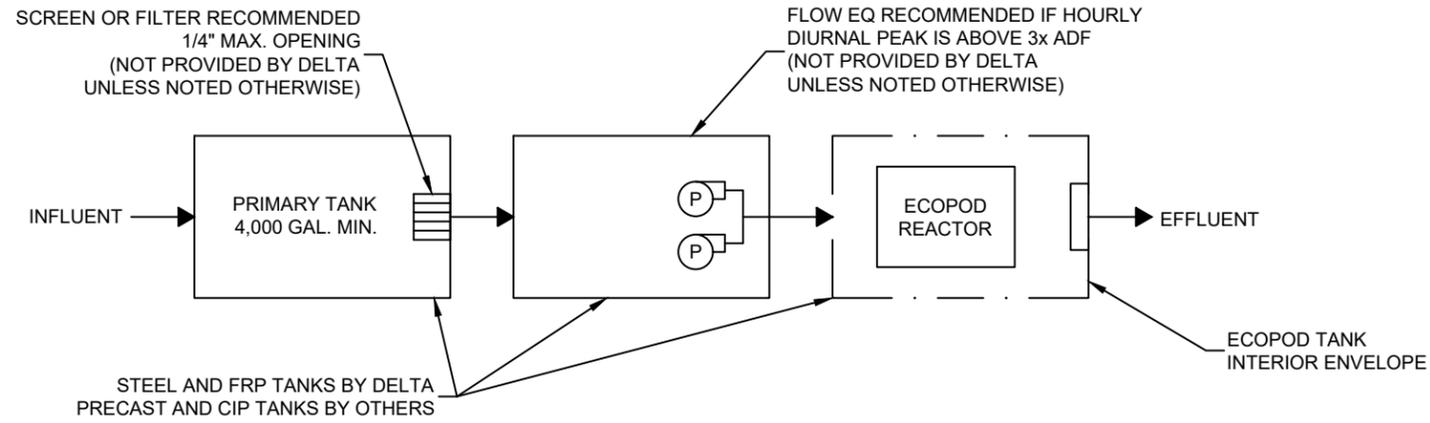
**TABLE 2
AIR DEMAND**

PARAMETER	UP TO 1,000 FT AMSL	1,000 TO 3,000 FT AMSL
STANDARD AIRFLOW	97 SCFM	113 SCFM
SITE AIR REQUIREMENT	109 ICFM	136 ICFM
BLOWER INLET AIR	116 ICFM	169 ICFM
AIR HEADER SIZE	3 IN	3 IN
MIN. TANK VENT X-SECT. AREA	47.7 IN ² 2 EA 6" OR 1 EA 8"	69.5 IN ² 2 EA 8" OR 1 EA 10"
BLOWER SELECTION	FPZ SCL K05-MS	FPZ SCL K06-MS
NOISE LEVEL	70.8 dB(A)	73.3 dB(A)
AIR TEMPERATURE RISE ¹	33 F (18.3 C)	32 F (17.8 C)
BLOWER INLET DIAMETER	2 IN NPT	2 IN NPT
BLOWER OUTLET DIAMETER	2 IN NPT	2 IN NPT
MOTOR POWER RATING ²	3 HP	4 HP
OPERATING POWER	1.7 KW	2.6 KW

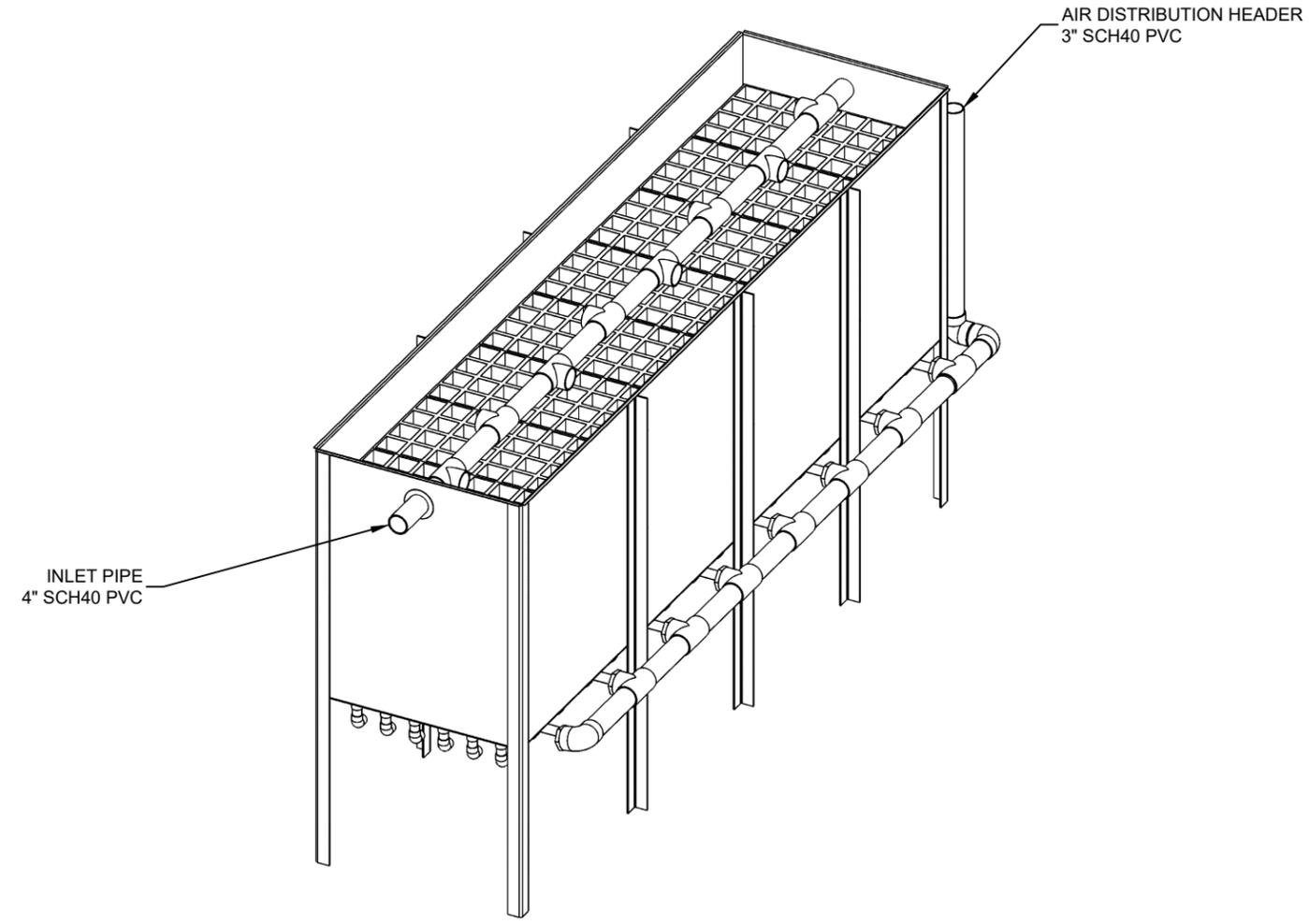
1. REVIEW BLOWER DISCHARGE AIR TEMPERATURE WHEN SPECIFYING AIR MAIN PIPING MATERIAL.
2. REVIEW BLOWER MANUFACTURER CUTSHEETS FOR ADDITIONAL ELECTRICAL INFORMATION.

**TABLE 3
STANDARD EQUIPMENT LIST**

DESCRIPTION	QTY	MAKE	MODEL
ECOPOD REACTOR	1	DELTA	E800D
BLOWER	1	FPZ	PER TABLE 2
CONTROL PANEL	1	DELTA	PER DESIGN
24" S.S. EFFLUENT WEIR	1	DELTA	TROUGH-3.0



TYPICAL PROCESS DIAGRAM



ECOPOD REACTOR LAYOUT 1

NO.	DATE	INITIALS	DESCRIPTION
A	10/12/21	AOB	ADDED TRIMETRIC VIEW

delta treatment systems
An Infiltrator Water Technologies Company

Delta Treatment Systems, LLC

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**DELTA ECOPOD E800D
STANDARD DESIGN FOR BOD REDUCTION**

**GENERAL ARRANGEMENT
DESIGN OVERVIEW**

HORIZ. SCALE	PROJECT NO.
N/A	N/A
VERT. SCALE	DATE
N/A	02/11/2021
DRAWN BY	DESIGNED BY
CGK	AOB
DRAWING NO.	SHEET NO.
C1.0	01 of 02

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- GENERAL NOTES
1. ECOPOD REACTOR BOX SHALL BE CONSTRUCTED OF AISI 304/304L STAINLESS STEEL.
 2. TANK MATERIAL OPTIONS:
 - 2.1. CARBON STEEL PER ASTM A36 w/COATING PER DELTA STANDARDS.
 - 2.2. FIBERGLASS REINFORCED PLASTIC (FRP) (NOT ALL MODELS).
 - 2.3. PRECAST CONCRETE PER ENGINEER OF RECORD REQUIREMENTS, BY OTHERS.
 - 2.4. CAST-IN-PLACE CONCRETE PER ENGINEER OF RECORD REQUIREMENTS, BY OTHERS.
 3. SEE INSTALLATION GUIDE FOR INSTALLATION DETAILS.
 4. CONTACT AN IWT/DELTA REPRESENTATIVE REGARDING DEVIATIONS FROM THESE STANDARDS.

SITE ELEVATION		LAYOUT ID	REACTOR WEIGHT		A OVERALL LENGTH		B OVERALL WIDTH		B1 AIR HEADER CL DIM	
FT	M		LB	KG	IN	CM	IN	CM	IN	CM
0-3,000	0-914	1	2,030	922	202	514	59	150	32	82
0-3,000	0-914	2	1,700	770	117	298	107	272	56	143
0-3,000	0-914	3	1,940	881	154	392	83	211	44	112

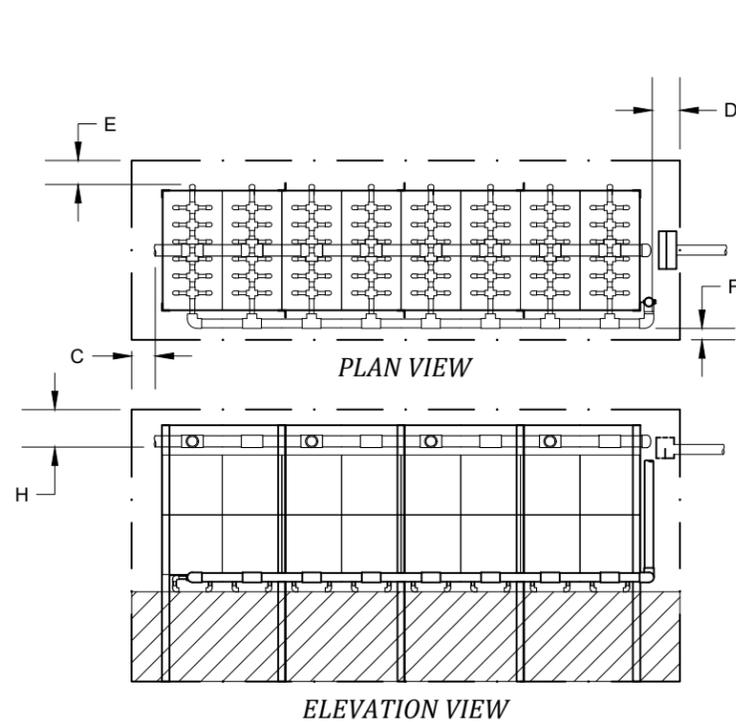
1. SOME REACTOR LAYOUTS NOT AVAILABLE IN FIBERGLASS TANKS. CONTACT AN IWT/DELTA REPRESENTATIVE FOR DETAILS.

DIMENSION	IN	CM
C VESSEL FRONT SPACE	12	30
D VESSEL REAR SPACE	18	46
E AIR HEADER SIDE INSIDE SPACE	6	15
F NO HEADER SIDE INSIDE SPACE	6	15

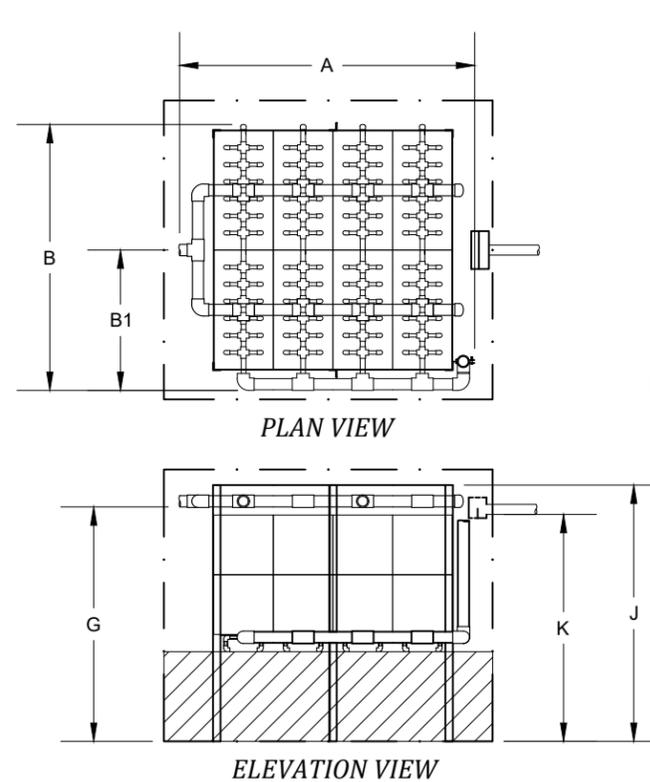
1. ADDITIONAL ACCESS HATCHES RECOMMENDED FOR SOLIDS REMOVAL ALONG VESSEL SIDES.

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

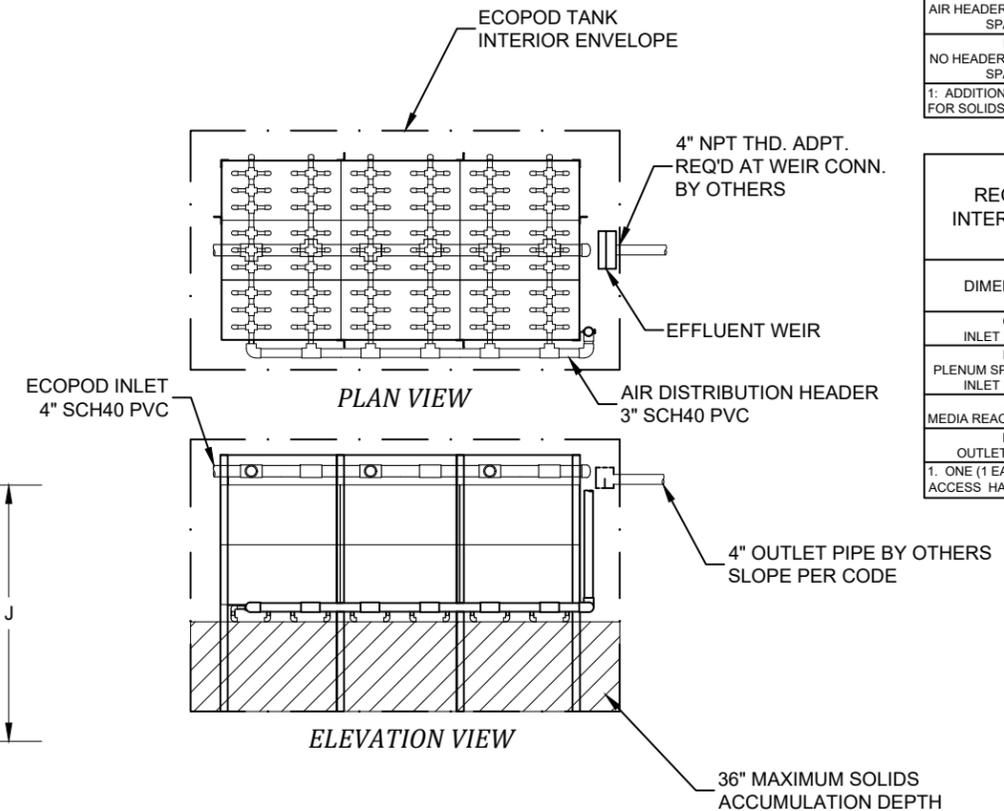
1. ONE (1 EA.) INLET AND ONE (1 EA.) OUTLET ACCESS HATCH REQUIRED, 24" DIA MINIMUM.



LAYOUT 1



LAYOUT 2



LAYOUT 3

NO.	DATE	INITIALS	DESCRIPTION


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DELTA ECOPOD E800D
STANDARD DESIGN FOR BOD REDUCTION

GENERAL ARRANGEMENT
LAYOUT DIMENSIONS

HORIZ. SCALE	PROJECT NO.
N/A	N/A
VERT. SCALE	DATE
N/A	05/19/2021
DRAWN BY	DESIGNED BY
CGK	AOB
DRAWING NO.	SHEET NO.
C1.1	02 of 02

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