

- 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 HIGH DENSITY POLYETHYLENE (HDPE) OR 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 E400S BOD ONLY

PARAMETER	MINIMUM	MAXIMUM
AVERAGE DAILY FLOW	-	4,000 GPD
PEAK DAILY FLOW	-	6,000 GPD
INFLUENT BOD <sub>5</sub>	-	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

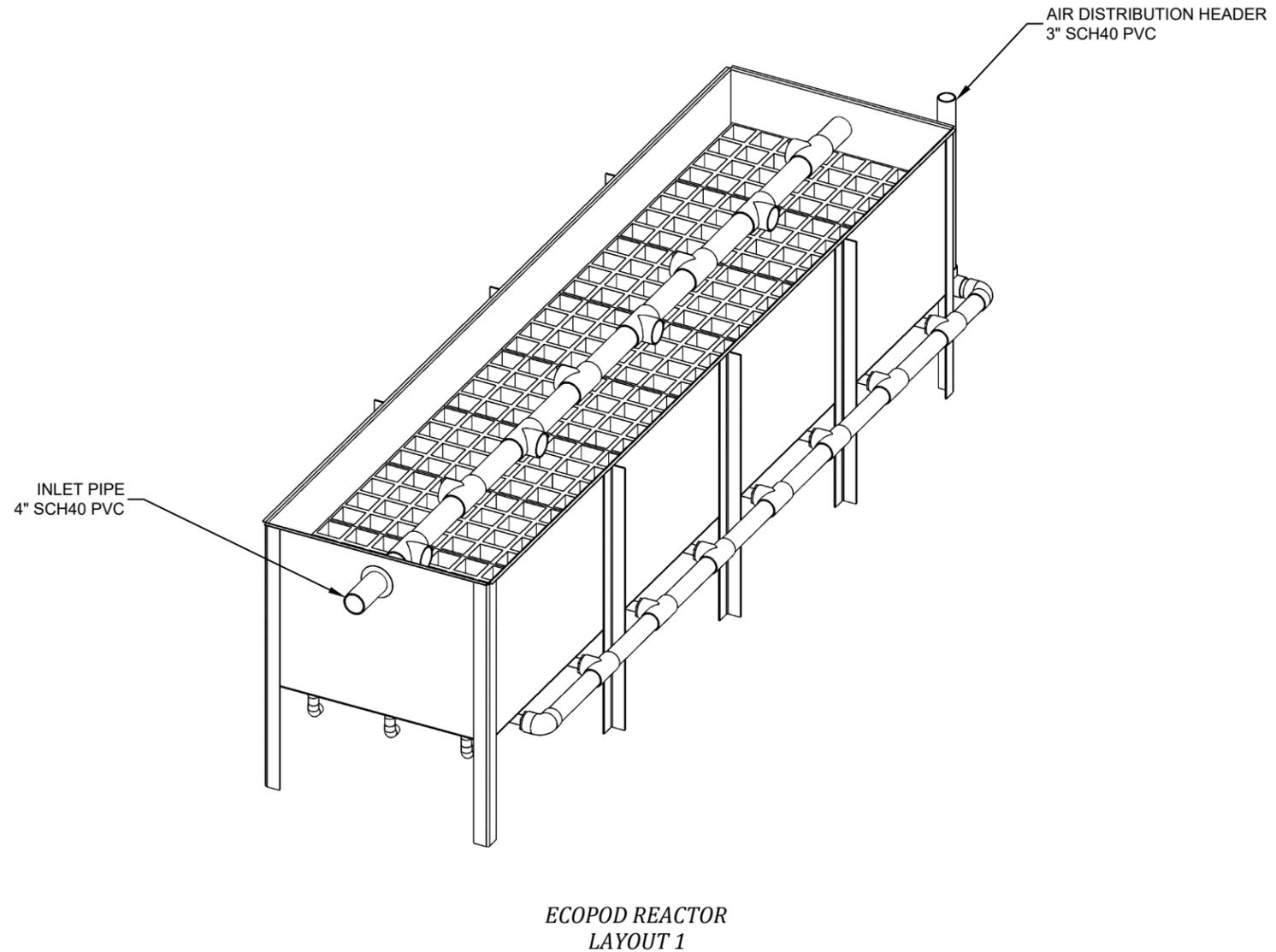
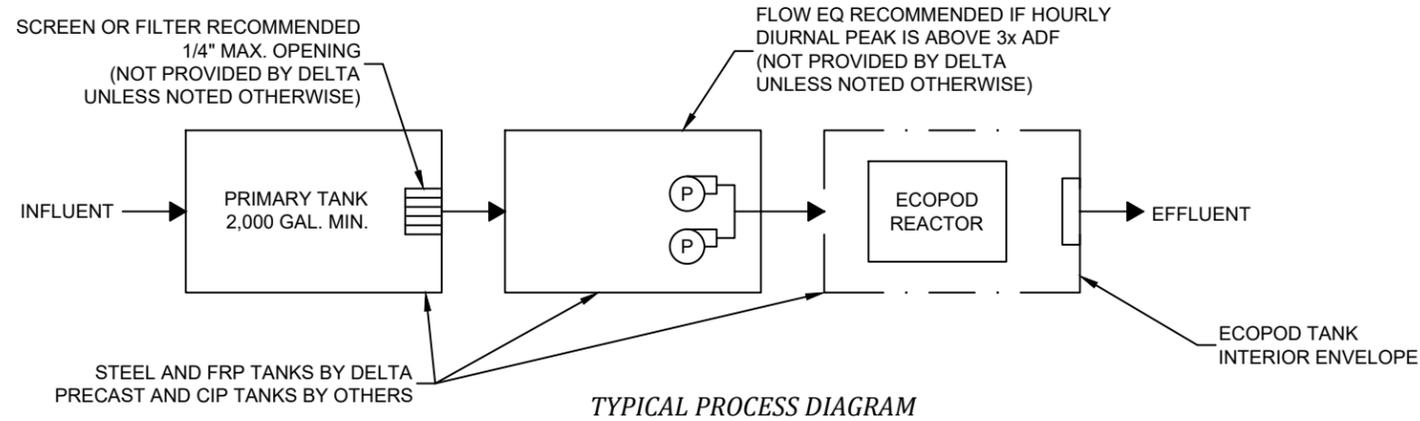
TABLE 2  
AIR DEMAND

PARAMETER	UP TO 1,000 FT AMSL	1,000 TO 3,000 FT AMSL
STANDARD AIRFLOW	88 SCFM	102 SCFM
SITE AIR REQUIREMENT	99 ICFM	123 ICFM
BLOWER INLET AIR	130 ICFM	130 ICFM
AIR HEADER SIZE	3 IN	3 IN
MIN. TANK VENT X-SECT. AREA	53.5 IN <sup>2</sup> 2 EA 6" OR 1 EA 10"	53.5 IN <sup>2</sup> 2 EA 6" OR 1 EA 10"
BLOWER SELECTION	FPZ SCL K05-MS	FPZ SCL K05-MS
NOISE LEVEL	70.5 dB(A)	70.5 dB(A)
AIR TEMPERATURE RISE <sup>1</sup>	21 F (11.7 C)	21 F (11.7 C)
BLOWER INLET DIAMETER	2 IN NPT	2 IN NPT
BLOWER OUTLET DIAMETER	2 IN NPT	2 IN NPT
MOTOR POWER RATING <sup>2</sup>	2 HP	2 HP
OPERATING POWER	1.2 KW	1.2 KW

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

TABLE 3  
STANDARD EQUIPMENT LIST

DESCRIPTION	QTY	MAKE	MODEL
ECOPOD REACTOR	1	DELTA	E400S
BLOWER	1	FPZ	PER TABLE 2
CONTROL PANEL	1	DELTA	PER DESIGN
24" S.S. EFFLUENT WEIR	1	DELTA	TROUGH-3.0



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


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 An Infiltrator Water Technologies Company

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**DELTA ECOPOD E400S**  
**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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SITE ELEVATION		REACTOR MATERIAL	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	HDPE	1			217	552	60	153	33	84
0-3,000	0-914	SS	1	1,170	531	202	514	59	150	32	82
0-3,000	0-914	SS	2	980	445	117	298	107	272	56	143
0-3,000	0-914	SS	3	1,170	531	154	392	83	211	44	112

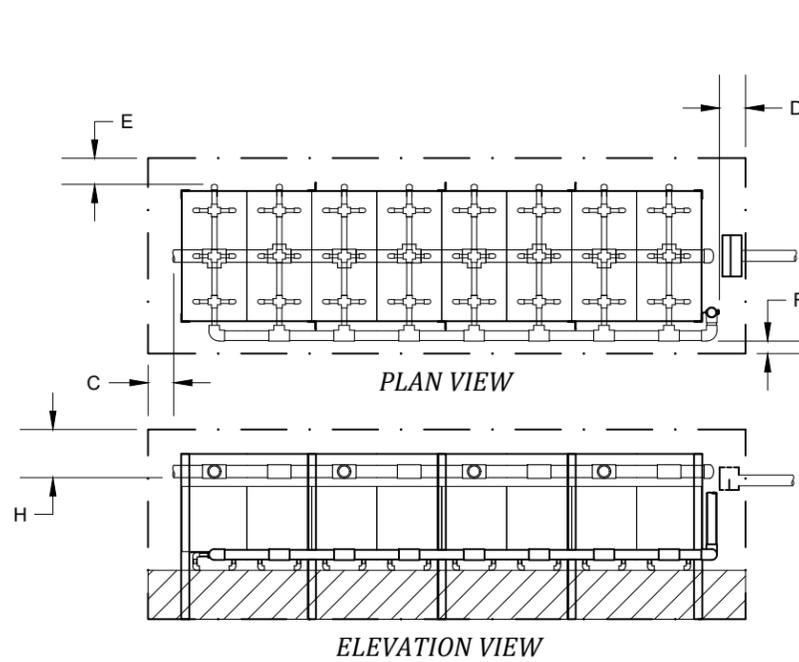
1. SOME REACTOR LAYOUTS NOT AVAILABLE IN FIBERGLASS TANKS. CONTACT AN IWT/DELTA REPRESENTATIVE FOR DETAILS.

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

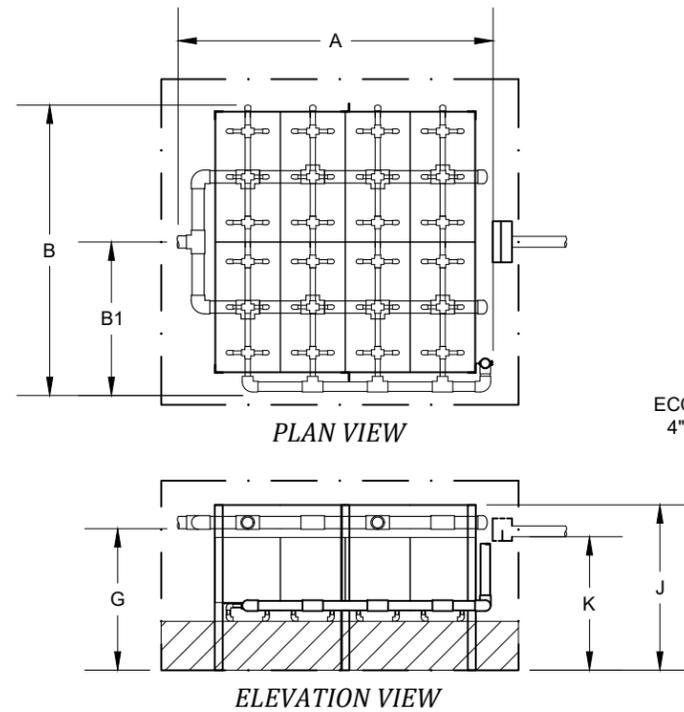
1. ADDITIONAL ACCESS HATCHES RECOMMENDED FOR SOLIDS REMOVAL ALONG VESSEL SIDES.

DIMENSION	IN	CM
G INLET INVERT	50	127
H PLENUM SPACE ABOVE INLET INVERT	10	25
J MEDIA REACTOR HEIGHT	59	150
K OUTLET INVERT	47	119

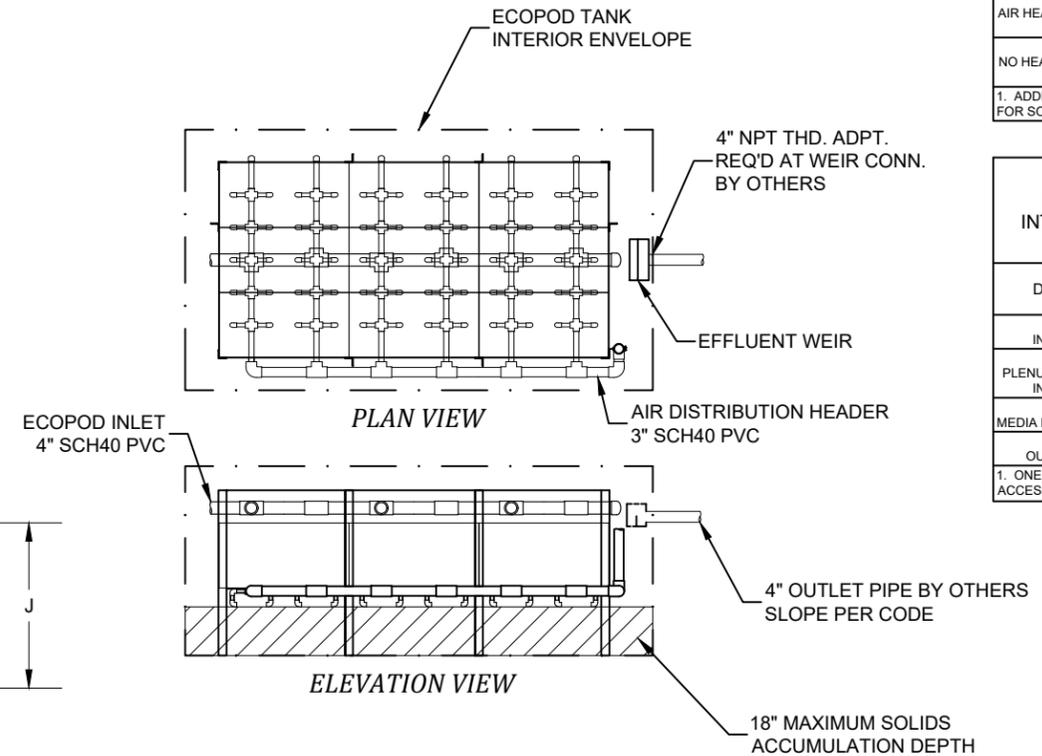
1. ONE (1 EA.) INLET AND ONE (1 EA.) OUTLET ACCESS HATCH REQUIRED, 24" DIA MINIMUM.



LAYOUT 1



LAYOUT 2



LAYOUT 3

NO.	DATE	INITIALS	DESCRIPTION


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**DELTA ECOPOD E400S**  
**STANDARD DESIGN FOR BOD REDUCTION**

**GENERAL ARRANGEMENT**  
**LAYOUT DIMENSIONS**

HORIZ. SCALE N/A	PROJECT NO. N/A
VERT. SCALE N/A	DATE 05/17/2021
DRAWN BY CGK	DESIGNED BY AOB
DRAWING NO. C1.1	SHEET NO. 02 of 02

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