

ENVIROSERVER - ES SERIES ES4.5

PRIMARY AND SECONDARY WASTEWATER TREATMENT DEVICE USING BOTH FIXED FILM AND SUSPENDED GROWTH WITH MULTI-STAGE AEROBIC PROCESS. TANK CAPACITIES LISTED ARE FOR STANDARD UNITS

DESIGN TREATMENT CAPACITY (gpd)	
TOTAL TANK CAPACITY (gal)	
TOTAL LENGTH	
DIAMETER (in.)	
INLET HEIGHT (in.)	
OUTLET HEIGHT (in.)	

	1 AFFON JND HOU	SO DRIVE ISE, NV 89706		
· · ·		[1(877)473-78 SEPTEC.COM		
	NO	ΓES		
		IAMBERS SHOULD NE		
GROUND 2. RISERS A	WATER COND	CIALLY IN HIGH ITIONS APTERS NOT SUPPLIED		
3. PLUMBIN TANK TO	MICROSEPTEC			
PLUMBI THAN 4F	NG FOR ANY B T	VIDE ADDITIONAL URIAL DEPTH GREATE		
NOT LIM OTHER E	IITED TO: BURI EXTERNAL LOA	CTERISTICS INCLUDING AL DEPTH, TRAFFIC O ADING, SEASONAL		
SHOULD		SOIL CHARACTERISTIC ED WITH A LOCAL DES TALLATION		
	IGNED TANK E	BURIAL DEPTH IS 2FT 1 YOND THAT RANGE M		
BE ANAI 7. COVER T	LYZED BY A LO TO BE A MINIM	OCAL DESIGN ENGINE		
ALONG S 9. GEOLOG	SIDES AND BOT	TOM OF TANK CHNICAL ENGINEER T RS AND TEXTILE FILT		
ARE REQ	UIRED. F SOIL SLOPE	CUT PER LOCAL CODE		
11. VERTICA APPROV	AL CUT FOR FII ED BY LOCAL	LL HEIGHT CAN BE DO CODE OR SOIL ENGINE CH ENGINEER SHOULI		
DETERM	INE IF CORROS BE USED IN AI	CH ENGINEER SHOULI SIVE RESISTANT MATE NY STEEL PARTS EXPO		
DRAWN:	DATE:	JOB NUMBER		
DRAWN: AJM	DATE: 2/10/21	JOB NUMBER ES4.5		
AJM	2/10/21	ES4.5 /ISION:		
	2/10/21 REV	ES4.5		
AJM	2/10/21 REV DATE:	ES4.5 /ISION:		
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SHEET NUMBER:

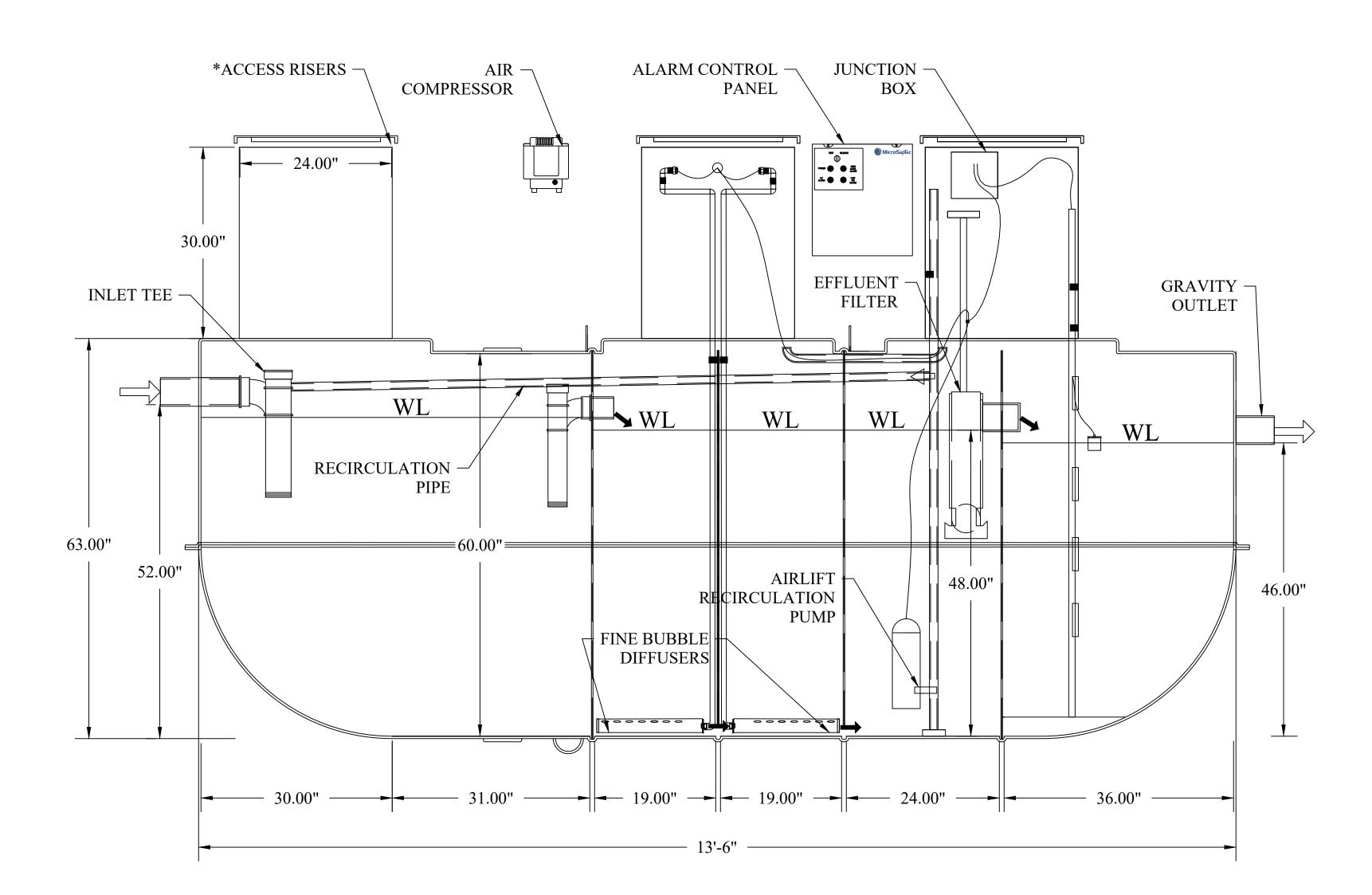
1 OF 1

S C A L E 1"=1'-0"

450	
1500	
13'-6'	1
60	
52	
46	

ENVIROSERVER - ES SERIES ES4.5-GRAV/SOL-MST

DESCRIPTION:



ES4.5 CHAMBER VOLUMES				
PRIMARY SETTLINGAERATION 1AERATION 2CLARIFIERPUMP CHAMBER				PUMP CHAMBER
564	200	200	252	268

NOTES:

*MATERIALS NOT SUPPLIED BY MICROSEPTEC

TANK LAYOUT (ELEVATION VIEW)

PRIMARY AND SECONDARY WASTEWATER TREATMENT DEVICE USING BOTH FIXED FILM AND SUSPENDED GROWTH WITH MULTI-STAGE AEROBIC PROCESS. TANK CAPACITIES LISTED ARE FOR STANDARD UNITS

450	DESIGN TREATMENT CAPACITY (gpd)	
1500	TOTAL TANK CAPACITY (gal)	
13'-6"	TOTAL LENGTH	
60	DIAMETER (in.)	
52	INLET HEIGHT (in.)	
46	OUTLET HEIGHT (in.)	
15	BIOMEDIA VOLUME (cu.ft.)	
2-EDI FINE BUBBLE	AIR DIFFUSER	
HIBLOW 100LL	AIR COMPRESSOR	
SOLENOID	RECIRCULATION CONTROL	
MCPR-G	ALARM CONTROL PANEL	
OPTIONAL	TELEMETRY	
•		



	Місг	oSepTec
MOU 1(877)-4	JND HOU SEPTIC	SO DRIVE JSE, NV 89706 [1(877)473-7842] DSEPTEC.COM
	NO	TES
BE PUMI GROUNI 2. RISERS A MICROS 3. PLUMBI TANK TO 4. CONTRA PLUMBI THAN 4F 5. SITE-SPE NOT LIM OTHER F GROUNI SHOULD ENGINEI TANK BURIAL 6. THE DES ANY TAI BE ANAI 7. COVER T 8. ENGINEI ALONG 3 9. GEOLOG DETERM ARE REC 10. DEPTH C SOIL REI 11. VERTICA APPROV 12. GEOLOG DETERM	PED DRY, ESPE DWATER CONE AND RISER AD. EPTEC NG DIMENSION D INVERT OF IN CTOR TO PRO NG FOR ANY B T ECIFIC CHARAG ITED TO: BUR EXTERNAL LOA DWATER, AND D BE CONFIRME ER BEFORE INS CONFIRME ER BEFORE INS CONFIRME EN BUSED TANK I NK BURIED BE LYZED BY A LOC FO BE A MINIM ERED BACKFIL SIDES AND BO OUIRED. DF SOIL SLOPE PORT AL CUT FOR FIL ED BY LOCAL GIST OR GEOTE INE IF CORRO D BE USED IN A	APTERS NOT SUPPLIED BY NS FROM OUTSIDE EDGE OF NLET AND OUTLET VIDE ADDITIONAL SURIAL DEPTH GREATER CTERISTICS INCLUDING BU IAL DEPTH, TRAFFIC OR ADING, SEASONAL SOIL CHARACTERISTICS ED WITH A LOCAL DESIGN STALLATION BURIAL DEPTH IS 2FT TO 61 YOND THAT RANGE MUST OCAL DESIGN ENGINEER
DRAWN:	DATE:	JOB NUMBER:

REVISION:	DATE: BY:	DESCRIPTION:

SITE INFORMATION:

ES 4.5 ENVIROSERVER ADVANCED WASEWATER TREATMENT SYSTEM

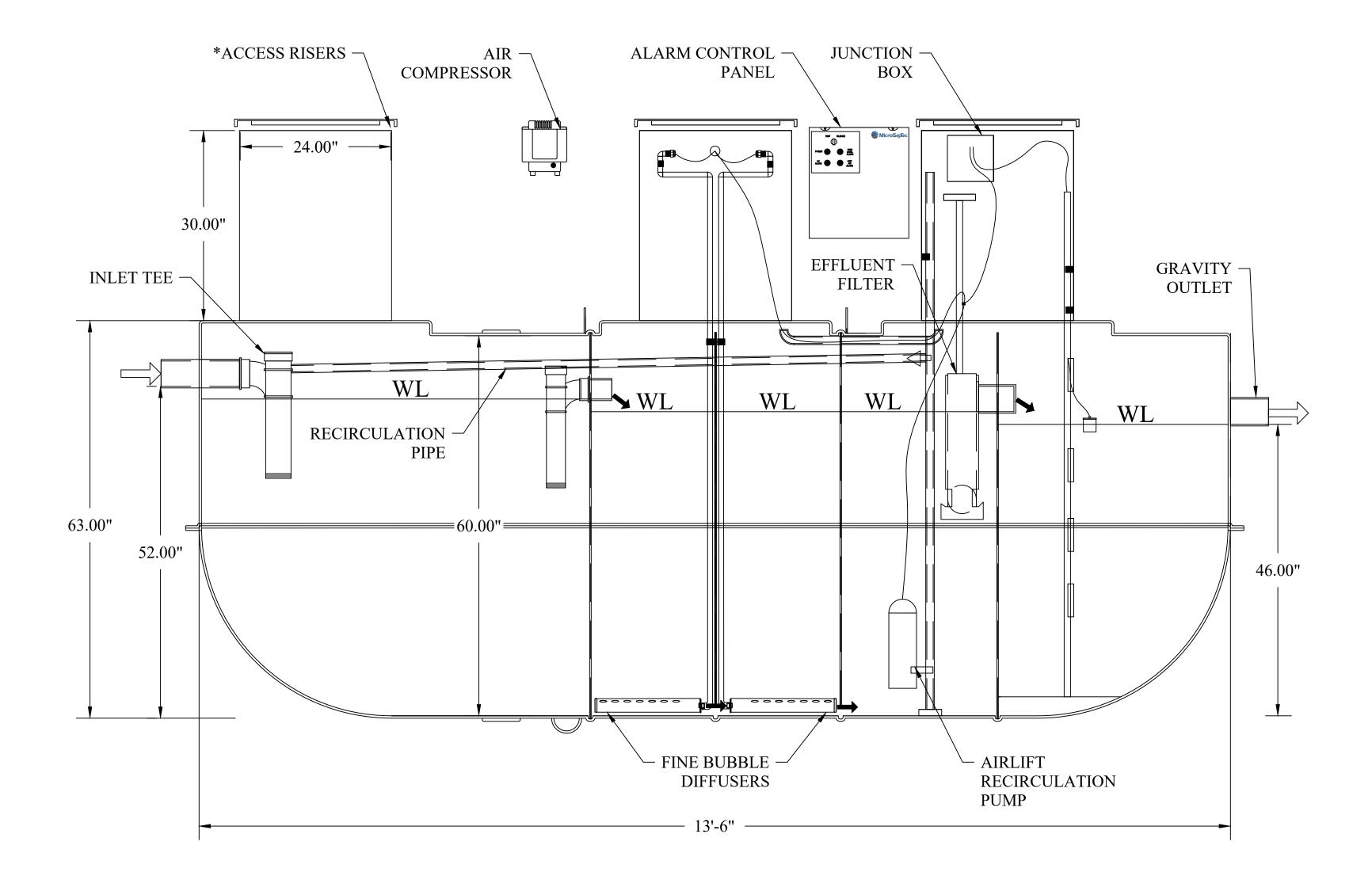
SHEET TITLE:

ES4.5-GRAV/SOL-MST

SHEET NUMBER:

S C A L E	
1"=1'-0"	





NOTES:

*MATERIALS NOT SUPPLIED BY MICROSEPTEC

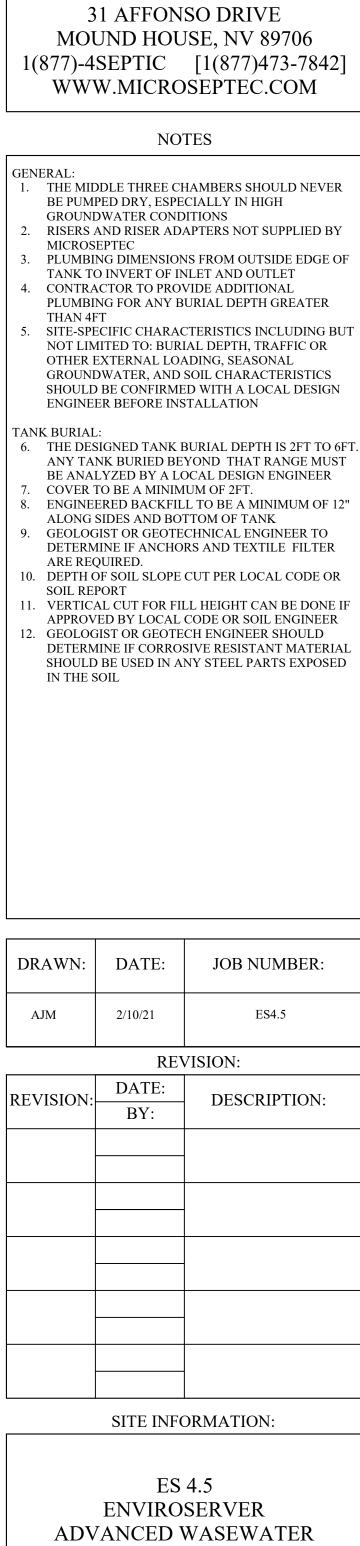
TANK LAYOUT (ELEVATION VIEW)

ENVIROSERVER - ES SERIES ES4.5-GR

PRIMARY AND SECONDARY WASTEWATER TREATMENT DEVICE USING BOTH FIXED FILM AND S WITH MULTI-STAGE AEROBIC PROCESS. TANK CAPACITIES LISTED ARE FOR STANDARD UNITS

DESIGN TREATMENT CAPACITY (gpd)	
TOTAL TANK CAPACITY (gal)	
TOTAL LENGTH	
DIAMETER (in.)	
INLET HEIGHT (in.)	
OUTLET HEIGHT (in.)	
BIOMEDIA VOLUME (cu.ft.)	
AIR DIFFUSER	
AIR COMPRESSOR	
RECIRCULATION CONTROL	
ALARM CONTROL PANEL	
TELEMETRY	

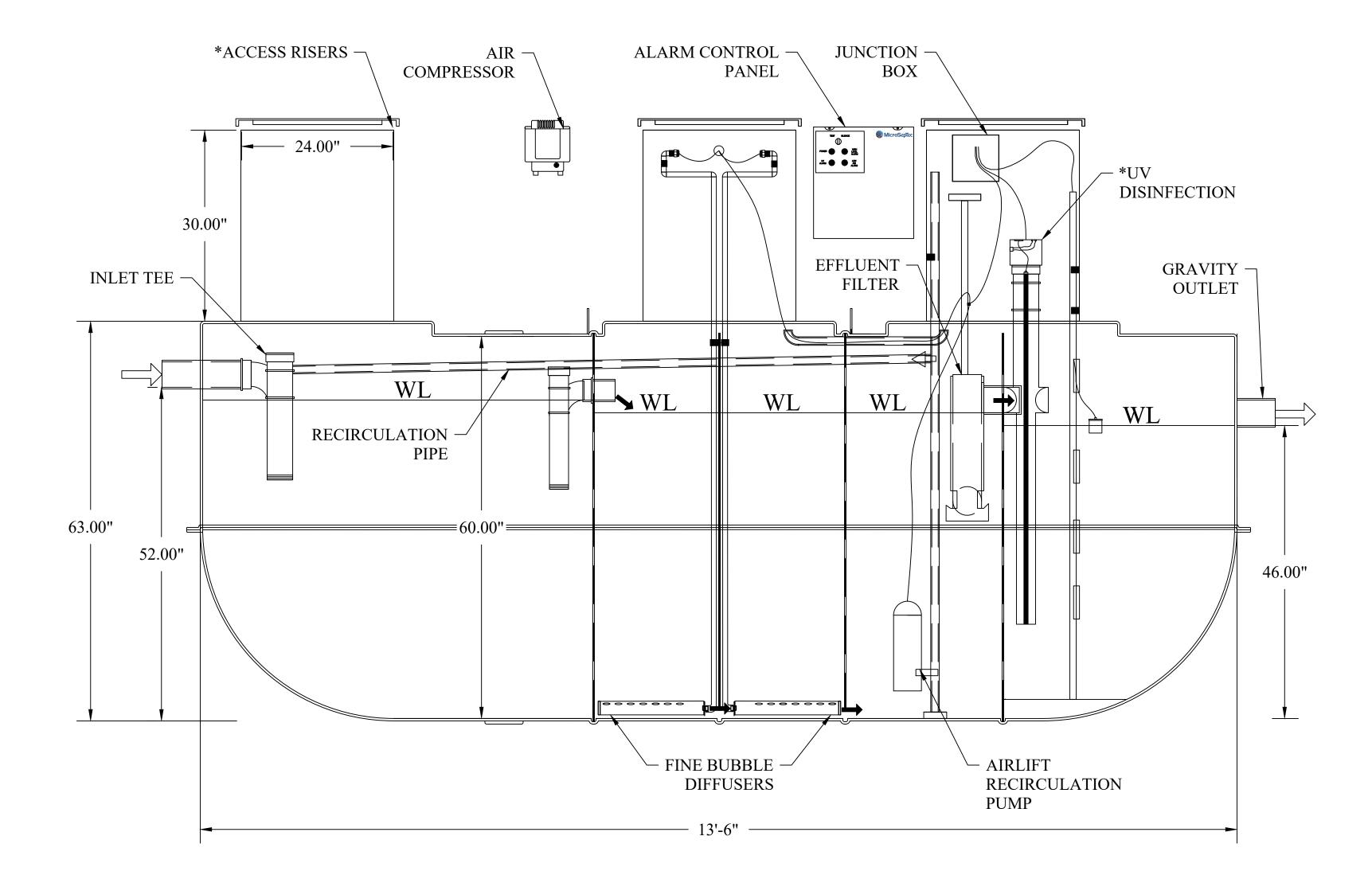
AV/SOL	3 MO 1(877)-4	1 AFFON UND HOU SEPTIC	SO DRIVE JSE, NV 89706 [1(877)473-7842] DSEPTEC.COM
SUSPENDED GROWTH		NO	TES
SUSPENDED UKUWIH	BE PUM GROUNI 2. RISERS MICROS 3. PLUMBI TANK TO 4. CONTRA PLUMBI THAN 4I 5. SITE-SPI NOT LIN OTHER I GROUNI SHOULD ENGINE TANK BURIAL 6. THE DES ANY TA BE ANA 7. COVER 7 8. ENGINE	PED DRY, ESPE DWATER COND AND RISER AD. EPTEC NG DIMENSION O INVERT OF IN ACTOR TO PRO' NG FOR ANY B ST ECIFIC CHARAC MITED TO: BURI EXTERNAL LOA DWATER, AND D BE CONFIRME ER BEFORE INS .: SIGNED TANK I NK BURIED BE LYZED BY A LO TO BE A MINIM ERED BACKFIL	APTERS NOT SUPPLIED BY NS FROM OUTSIDE EDGE OF NLET AND OUTLET VIDE ADDITIONAL URIAL DEPTH GREATER CTERISTICS INCLUDING BUT IAL DEPTH, TRAFFIC OR ADING, SEASONAL SOIL CHARACTERISTICS ED WITH A LOCAL DESIGN STALLATION BURIAL DEPTH IS 2FT TO 6FT YOND THAT RANGE MUST DCAL DESIGN ENGINEER IUM OF 2FT. L TO BE A MINIMUM OF 12"
) 450) 1500 H 13'-6") 60) 60) 52) 46) 15 & 2-EDI FINE BUBBLE & HIBLOW 100LL SOLENOID MCPP G	9. GEOLOC DETERM ARE REC 10. DEPTH (SOIL RE 11. VERTIC, APPROV 12. GEOLOC DETERM	GIST OR GEOTE MINE IF ANCHO QUIRED. DF SOIL SLOPE PORT AL CUT FOR FII YED BY LOCAL GIST OR GEOTE MINE IF CORROS D BE USED IN A	TTOM OF TANK CHNICAL ENGINEER TO RS AND TEXTILE FILTER CUT PER LOCAL CODE OR LL HEIGHT CAN BE DONE IF CODE OR SOIL ENGINEER CH ENGINEER SHOULD SIVE RESISTANT MATERIAL NY STEEL PARTS EXPOSED
MCPR-G C OPTIONAL	DRAWN:	DATE:	JOB NUMBER:
	AJM	2/10/21	ES4.5
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		SHEE	T TITLE:
		ES4.5-GR	RAV/SOL
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<u>SCALE</u> 1"=1'-0" 1		1 C) F 1



ENVIROSERVER - ES SERIES ES4.5-GRAV/SOL/UV

DESCRIPTION:

PRIMARY AND SECONDARY WASTEWATER TREATMENT DEVICE USING BOTH FIXED FILM AND SUSPENDED GROWTH WITH MULTI-STAGE AEROBIC PROCESS. TANK CAPACITIES LISTED ARE FOR STANDARD UNITS



NOTES:

*MATERIALS NOT SUPPLIED BY MICROSEPTEC

TANK LAYOUT (ELEVATION VIEW)

450
1500
13'-6"
60
52
46
15
2-EDI FINE BUBBLE
HIBLOW 100LL
SOLENOID
MCPR-G
OPTIONAL
SALCOR 3G



31 AFFONSO DRIVE MOUND HOUSE, NV 89706 1(877)-4SEPTIC [1(877)473-7842 WWW.MICROSEPTEC.COM NOTES GENERAL: 1 THE MIDDLE THREE CHAMBERS SHOULD NEVEL BE PUMPED DRY, ESPECIALLY IN HIGH GROUNDWATER CONDITIONS 2. RISERS AND RISER ADAPTERS NOT SUPPLIED BY MICROSEPTEC 3. PLUMBING DIMENSIONS FROM OUTSIDE EDGE OF TANK TO INVERT OF INLET AND OUTLET 4. CONTRACTOR TO PROVIDE ADDITIONAL PLUMBING FOR ANY BURIAL DEPTH GREATER THAN 4FT 5. SITE-SPECIFIC CHARACTERISTICS INCLUDING B NOT LIMITED TO: BURIAL DEPTH, TRAFFIC OR OTHER EXTERNAL LOADING, SEASONAL GROUNDWATER, AND SOIL CHARACTERISTICS SHOULD BE CONFIRMED WITH A LOCAL DESIGN ENGINEER BEFORE INSTALLATION TANK BURIAL THAN BURIAL DEPTH IS 2FT TO OF ANY TANK BURIED BEYOND THAT RANGE MUS BE ANALYZED BY A LOCAL DESIGN ENGINEER COVER TO BE A MINIMUM OF 2FT. 8. ENGINEERED BACKFILL TO BE A MINIMUM OF 1A ALONG SIDES AND BOTTOM OF TANK 9. GEOLOGIST OR GEOTECHNICAL ENGINEER TO DETERMINE IF ANCHORS AND TEXTILE FILTER ARE REQUIRED. 10. DEPTH OF SOIL SLOPE CUT PER LOCAL CODE OF SOIL REPORT SUPPOYED BY LOCAL CODE OR SOIL ENGINEER 11. VERTICAL CUT FOR FILL HEIGHT CAN BE DONE APPROVED BY LOCAL CODE OR SOIL ENGINEER		Місг	oSepTeo
GENERAL: 1. THE MIDDLE THREE CHAMBERS SHOULD NEVEL BE PUMPED DRY, ESPECIALLY IN HIGH GROUNDWATER CONDITIONS 2. RISERS AND RISER ADAPTERS NOT SUPPLIED BY MICROSEPTEC 3. PLUMBING DIMENSIONS FROM OUTSIDE EDGE (TANK TO INVERT OF INLET AND OUTLET 4. CONTRACTOR TO PROVIDE ADDITIONAL PLUMBING FOR ANY BURIAL DEPTH GREATER THAN 4FT 5. SITE-SPECIFIC CHARACTERISTICS INCLUDING B NOT LIMITED TO: BURIAL DEPTH, TRAFFIC OR OTHER EXTERNAL LOADING, SEASONAL GROUNDWATER, AND SOIL CHARACTERISTICS SHOULD BE CONFIRMED WITH A LOCAL DESIGN ENGINEER BEFORE INSTALLATION TANK BURIAL: 6. THE DESIGNED TANK BURIAL DEPTH IS 2FT TO 0 ANY TANK BURIED BEYOND THAT RANGE MUS BE ANALYZED BY A LOCAL DESIGN ENGINEER 7. COVER TO BE A MINIMUM OF 2FT. 8. ENGINEERED BACKFILL TO BE A MINIMUM OF 1 ALONG SIDES AND BOTTOM OF TANK 9. GEOLOGIST OR GEOTECHNICAL ENGINEER TO DETERMINE IF ANCHORS AND TEXTILE FILTER ARE REQUIRED. 10. DEPTH OF SOIL SLOPE CUT PER LOCAL CODE OF SOIL REPORT 11. VERTICAL CUT FOR FILL HEIGHT CAN BE DONE APPROVED BY LOCAL CODE OR SOIL ENGINEER 12. GEOLOGIST OR GEOTECH ENGINEER SHOULD DETERMINE IF CORROSIVE RESISTANT MATERI SHOULD BE USED IN ANY STEEL PARTS EXPOSE IN THE SOIL 12. GEOLOGIST OR GEOTECH ENGINEER SHOULD DETERMINE IF CORROSIVE RESISTANT MATERIL SHOULD BE USED IN ANY STEEL PARTS EXPOSE IN THE SOIL	MO 1(877)-4	UND HOU SEPTIC	JSE, NV 89706 [1(877)473-7842
1. THE MIDDLE THREE CHAMBERS SHOULD NEVEL BE PUMPED DRY, ESPECIALLY IN HIGH GROUNDWATER CONDITIONS 2. RISERS AND RISER ADAPTERS NOT SUPPLIED BY MICROSEPTEC 3. PLUMBING DIMENSIONS FROM OUTSIDE EDGE OF TANK TO INVERT OF INLET AND OUTLET 4. CONTRACTOR TO PROVIDE ADDITIONAL PLUMBING FOR ANY BURIAL DEPTH GREATER THAN 4FT 5. SITE-SPECIFIC CHARACTERISTICS INCLUDING B NOT LIMITED TO: BURIAL DEPTH, TRAFFIC OR OTHER EXTERNAL LOADING, SEASONAL GROUNDWATER, AND SOIL CHARACTERISTICS SHOULD BE CONFIRMED WITH A LOCAL DESIGN ENGINEER BEFORE INSTALLATION TANK BURIAL: 6. THE DESIGNED TANK BURIAL DEPTH IS 2FT TO O ANY TANK BURIED BEYOND THAT RANGE MUS BE ANALYZED BY A LOCAL DESIGN ENGINEER 7. COVER TO BE A MINIMUM OF 2FT. 8. ENGINEERED BACKFILL TO BE A MINIMUM OF 1 ALONG SIDES AND BOTTOM OF TANK 9. GEOLOGIST OR GEOTECHNICAL ENGINEER TO DETERMINE IF ANCHORS AND TEXTILE FILTER ARE REQUIRED. 10. DEPTH OF SOIL SLOPE CUT PER LOCAL CODE OF SOIL REPORT 11. VERTICAL CUT FOR FILL HEIGHT CAN BE DONE APPROVED BY LOCAL CODE OR SOIL ENGINEER 12. GEOLOGIST OR GEOTECH ENGINEER SHOULD DETERMINE IF CORROSIVE RESISTANT MATERL SHOULD BE USED IN ANY STEEL PARTS EXPOSE IN THE SOIL		NO	TES
	BE PUM GROUNI 2. RISERS MICROS 3. PLUMBI TANK T 4. CONTRA PLUMBI THAN 41 5. SITE-SPI NOT LIM OTHER 1 GROUNI SHOULI ENGINE TANK BURIAI 6. THE DES ANY TA BE ANA 7. COVER 1 8. ENGINE ALONG 9. GEOLOO DETERM ARE RE 10. DEPTH O SOIL RE 11. VERTIC APPROV 12. GEOLOO DETERM SHOULI	PED DRY, ESPE DWATER COND AND RISER AD. SEPTEC ING DIMENSION O INVERT OF IN ACTOR TO PRO' ING FOR ANY B FT ECIFIC CHARAG MITED TO: BUR EXTERNAL LOA DWATER, AND D BE CONFIRME ER BEFORE INS L: SIGNED TANK H NK BURIED BE LYZED BY A LO TO BE A MINIM ERED BACKFIL SIDES AND BO' GIST OR GEOTE MINE IF ANCHO QUIRED. OF SOIL SLOPE PORT AL CUT FOR FII /ED BY LOCAL GIST OR GEOTE MINE IF CORROS D BE USED IN A	CIALLY IN HIGH MITIONS APTERS NOT SUPPLIED BY AS FROM OUTSIDE EDGE O VLET AND OUTLET VIDE ADDITIONAL URIAL DEPTH GREATER CTERISTICS INCLUDING B IAL DEPTH, TRAFFIC OR ADING, SEASONAL SOIL CHARACTERISTICS ED WITH A LOCAL DESIGN STALLATION BURIAL DEPTH IS 2FT TO G YOND THAT RANGE MUS OCAL DESIGN ENGINEER UM OF 2FT. L TO BE A MINIMUM OF 1 ITOM OF TANK CHNICAL ENGINEER TO RS AND TEXTILE FILTER CUT PER LOCAL CODE OF CL HEIGHT CAN BE DONE CODE OR SOIL ENGINEER CH ENGINEER SHOULD SIVE RESISTANT MATERLY
AJM 2/10/21 ES4.5	DRAWN:	DATE:	JOB NUMBER:
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	REVISION:	DATE:	DESCRIPTION:

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	BY:	DESCIULTION.
		,J

SITE INFORMATION:

ES 4.5 ENVIROSERVER ADVANCED WASEWATER TREATMENT SYSTEM

SHEET TITLE:

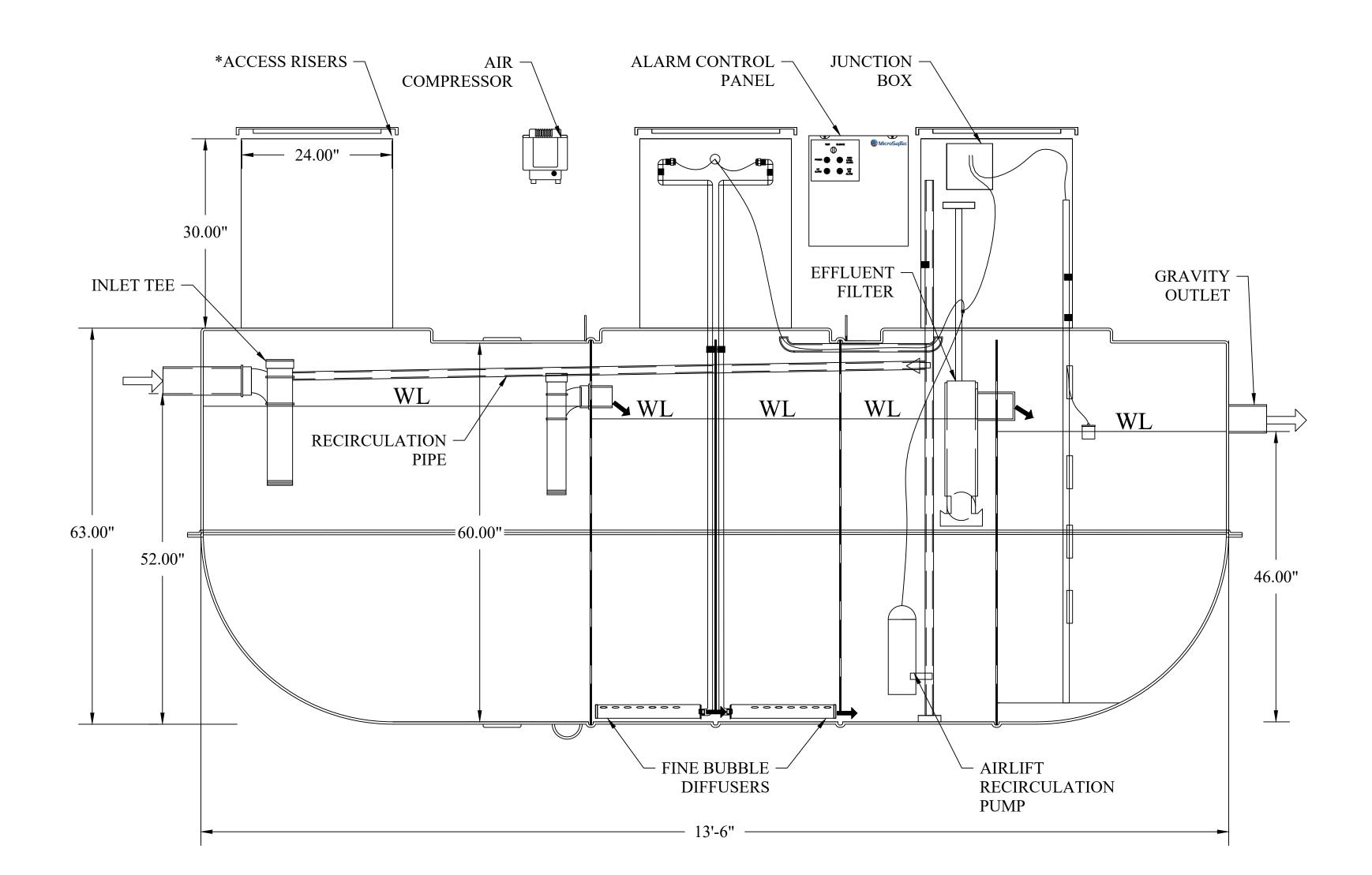
ES4.5-GRAV/SOL/UV

SHEET NUMBER:

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1"=1'-0"	-





NOTES:

*MATERIALS NOT SUPPLIED BY MICROSEPTEC

TANK LAYOUT (ELEVATION VIEW)

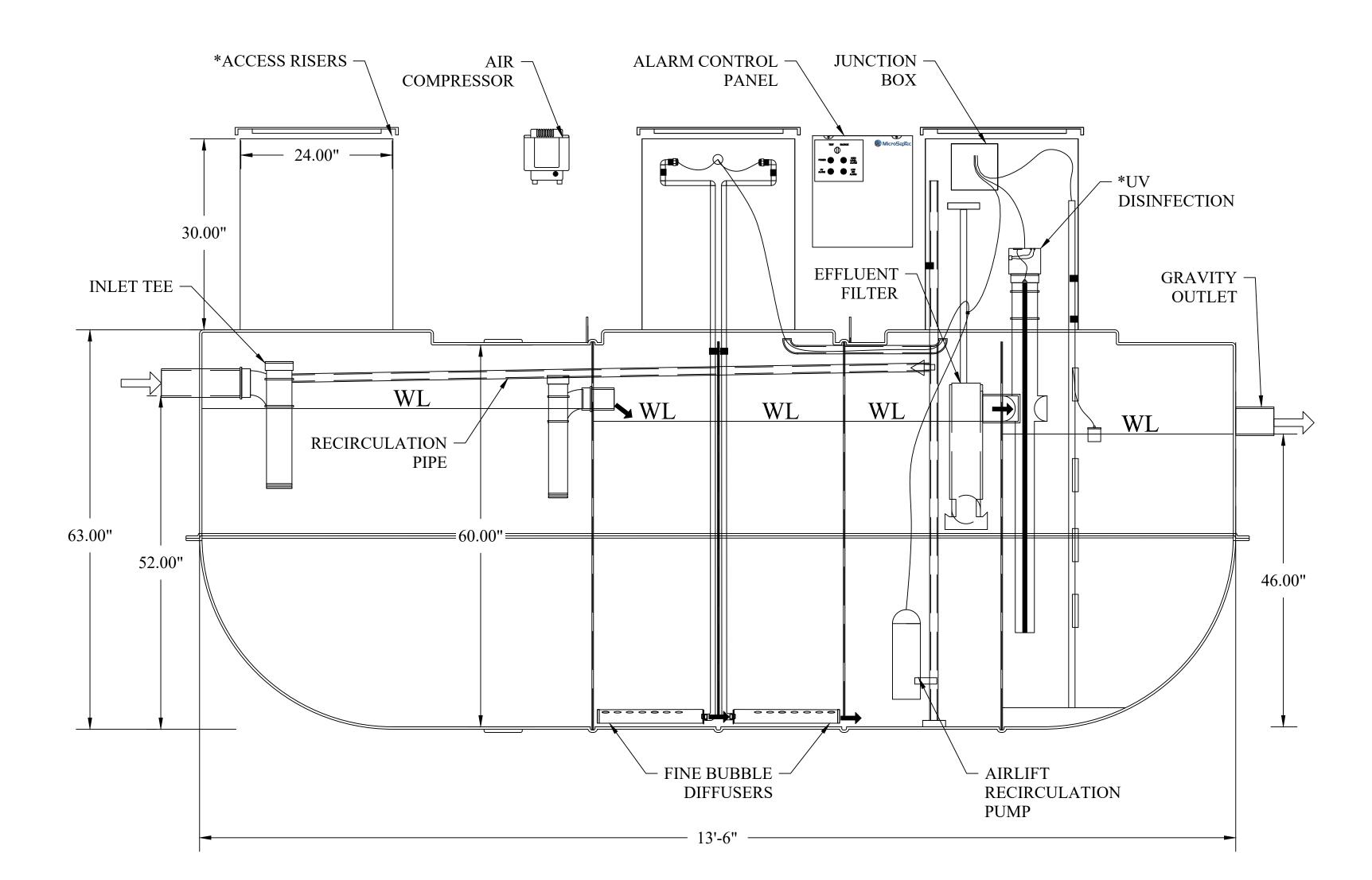
ENVIROSERVER - ES SERIES ES4.5-GR

PRIMARY AND SECONDARY WASTEWATER TREATMENT DEVICE USING BOTH FIXED FILM AND WITH MULTI-STAGE AEROBIC PROCESS. TANK CAPACITIES LISTED ARE FOR STANDARD UNITS

DESIGN TREATMENT CAPACITY (gpd)TOTAL TANK CAPACITY (gal)TOTAL LENGTHDIAMETER (in.)INLET HEIGHT (in.)OUTLET HEIGHT (in.)BIOMEDIA VOLUME (cu.ft.)AIR DIFFUSERAIR COMPRESSORRECIRCULATION CONTROLALARM CONTROL PANELTELEMETRY		
TOTAL LENGTH DIAMETER (in.) INLET HEIGHT (in.) OUTLET HEIGHT (in.) BIOMEDIA VOLUME (cu.ft.) AIR DIFFUSER AIR COMPRESSOR RECIRCULATION CONTROL ALARM CONTROL PANEL	DESIGN TREATMENT CAPACITY (gpd)	
DIAMETER (in.) INLET HEIGHT (in.) OUTLET HEIGHT (in.) BIOMEDIA VOLUME (cu.ft.) AIR DIFFUSER AIR COMPRESSOR RECIRCULATION CONTROL ALARM CONTROL PANEL	TOTAL TANK CAPACITY (gal)	
INLET HEIGHT (in.) OUTLET HEIGHT (in.) BIOMEDIA VOLUME (cu.ft.) AIR DIFFUSER AIR COMPRESSOR RECIRCULATION CONTROL ALARM CONTROL PANEL	TOTAL LENGTH	
OUTLET HEIGHT (in.)BIOMEDIA VOLUME (cu.ft.)AIR DIFFUSERAIR COMPRESSORRECIRCULATION CONTROLALARM CONTROL PANEL	DIAMETER (in.)	
BIOMEDIA VOLUME (cu.ft.) AIR DIFFUSER AIR COMPRESSOR RECIRCULATION CONTROL ALARM CONTROL PANEL	INLET HEIGHT (in.)	
AIR DIFFUSER AIR COMPRESSOR RECIRCULATION CONTROL ALARM CONTROL PANEL	OUTLET HEIGHT (in.)	
AIR COMPRESSOR RECIRCULATION CONTROL ALARM CONTROL PANEL	BIOMEDIA VOLUME (cu.ft.)	
RECIRCULATION CONTROL ALARM CONTROL PANEL	AIR DIFFUSER	
ALARM CONTROL PANEL	AIR COMPRESSOR	
	RECIRCULATION CONTROL	
TELEMETRY	ALARM CONTROL PANEL	
	TELEMETRY	

AV/NV	3 MO 1(877)-4	1 AFFON UND HOU SEPTIC	SO DRIVE USE, NV 89706 [1(877)473-7842] DSEPTEC.COM
SUSPENDED GROWTH		NO	TES
SUSPENDED UKO W III	BE PUM GROUNI 2. RISERS MICROS 3. PLUMBI TANK TO 4. CONTRA PLUMBI THAN 4H 5. SITE-SPI NOT LIM OTHER I GROUNI SHOULD	PED DRY, ESPE DWATER COND AND RISER AD SEPTEC NG DIMENSION O INVERT OF IN ACTOR TO PROV NG FOR ANY B FT ECIFIC CHARAC MITED TO: BUR EXTERNAL LOA DWATER, AND	APTERS NOT SUPPLIED BY NS FROM OUTSIDE EDGE OF NLET AND OUTLET VIDE ADDITIONAL URIAL DEPTH GREATER CTERISTICS INCLUDING BUT IAL DEPTH, TRAFFIC OR ADING, SEASONAL SOIL CHARACTERISTICS ED WITH A LOCAL DESIGN
d) 450 l) 1500 H 13'-6" a) 60 b) 52 a) 46 b) 15 R 2-EDI FINE BUBBLE R HIBLOW 100LL L NEEDLE VALVE L MCP-G	ANY TA BE ANA 7. COVER 8. ENGINE ALONG 9. GEOLOO DETERM ARE REC 10. DEPTH O SOIL RE 11. VERTICA APPROV 12. GEOLOO DETERM	SIGNED TANK H NK BURIED BE LYZED BY A LO TO BE A MINIM ERED BACKFIL SIDES AND BO GIST OR GEOTE (INE IF ANCHO QUIRED. DF SOIL SLOPE PORT AL CUT FOR FII (ED BY LOCAL GIST OR GEOTE (INE IF CORROS) DE USED IN A	BURIAL DEPTH IS 2FT TO 6FT. YOND THAT RANGE MUST OCAL DESIGN ENGINEER UM OF 2FT. L TO BE A MINIMUM OF 12" ITOM OF TANK CHNICAL ENGINEER TO RS AND TEXTILE FILTER CUT PER LOCAL CODE OR LL HEIGHT CAN BE DONE IF CODE OR SOIL ENGINEER CH ENGINEER SHOULD SIVE RESISTANT MATERIAL NY STEEL PARTS EXPOSED
Y OPTIONAL	DRAWN:	DATE:	JOB NUMBER:
	AJM	2/10/21	ES4.5
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<u>SCALE</u> 1"=1'-0" 1			NUMBER: DF 1





NOTES:

*MATERIALS NOT SUPPLIED BY MICROSEPTEC

TANK LAYOUT (ELEVATION VIEW)

ENVIROSERVER - ES SERIES ES4.5-GRAV/NV/UV

PRIMARY AND SECONDARY WASTEWATER TREATMENT DEVICE USING BOTH FIXED FILM AND SUSPENDED GROWTH WITH MULTI-STAGE AEROBIC PROCESS. TANK CAPACITIES LISTED ARE FOR STANDARD UNITS

DESIGN TREATMENT CAPACITY (gpd)	450
TOTAL TANK CAPACITY (gal)	1500
TOTAL LENGTH	13'-6"
DIAMETER (in.)	60
INLET HEIGHT (in.)	52
OUTLET HEIGHT (in.)	46
BIOMEDIA VOLUME (cu.ft.)	15
AIR DIFFUSER	2-EDI FINE BUBBLE
AIR COMPRESSOR	HIBLOW 100LL
RECIRCULATION CONTROL	NEEDLE VALVE
ALARM CONTROL PANEL	MCP-G
TELEMETRY	OPTIONAL
DISINFECTION	SALCOR 3G



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3 MOU 1(877)-4	1 AFFON UND HOU SEPTIC	SO DRIVE SE, NV 89706 [1(877)473-7842 SEPTEC.COM
	NO	ΓES
BE PUM GROUNI 2. RISERS J MICROS 3. PLUMBI TANK TO 4. CONTRA PLUMBI THAN 4H 5. SITE-SPH NOT LIM OTHER I GROUNI SHOULD ENGINE TANK BURIAL 6. THE DES ANY TA BE ANAI 7. COVER 7 8. ENGINE ALONG 9. GEOLOC DETERM ARE REC 10. DEPTH C SOIL REI 11. VERTICJ APPROV 12. GEOLOC DETERM	PED DRY, ESPE DWATER COND AND RISER ADA EPTEC NG DIMENSION O INVERT OF IN ACTOR TO PROV NG FOR ANY B ST ECIFIC CHARAC (IITED TO: BURI EXTERNAL LOA DWATER, AND D BE CONFIRME ER BEFORE INS D BE CONFIRME ER BEFORE INS SIGNED TANK F NK BURIED BE LYZED BY A LO TO BE A MINIM ERED BACKFIL SIDES AND BO GIST OR GEOTE (INE IF ANCHO) QUIRED. DF SOIL SLOPE PORT AL CUT FOR FII (ED BY LOCAL GIST OR GEOTE (INE IF CORROS) D BE USED IN AND	APTERS NOT SUPPLIED B IS FROM OUTSIDE EDGE ILET AND OUTLET VIDE ADDITIONAL URIAL DEPTH GREATER CTERISTICS INCLUDING H AL DEPTH, TRAFFIC OR ADING, SEASONAL SOIL CHARACTERISTICS D WITH A LOCAL DESIG TALLATION BURIAL DEPTH IS 2FT TO YOND THAT RANGE MUS DCAL DESIGN ENGINEER
DRAWN:	DATE:	JOB NUMBER:
DRAWN: AJM	DATE: 2/10/21	JOB NUMBER: ES4.5
	2/10/21 REV	
	2/10/21	ES4.5
AJM	2/10/21 REV DATE:	ES4.5 /ISION:

SITE INFORMATION:

ES 4.5 ENVIROSERVER ADVANCED WASEWATER TREATMENT SYSTEM

SHEET TITLE:

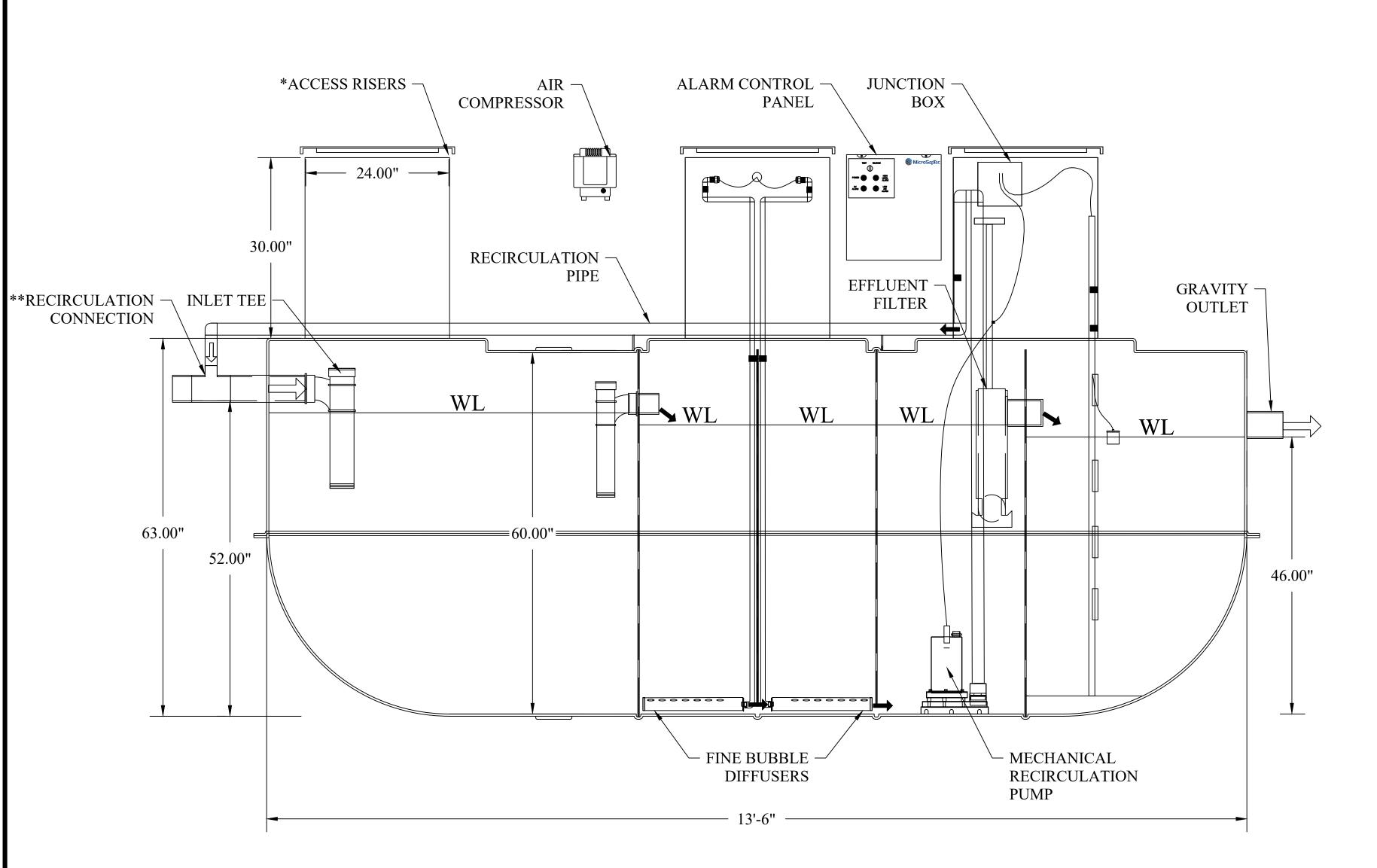
ES4.5-GRAV/NV/UV

SHEET NUMBER:

S C A L E 1"=1'-0"

*MATERIALS NOT SUPPLIED BY MICROSEPTEC **RECIRCULATION CONNECTION MUST BE LOCATED AT A MINIMUM OF 3FT FROM THE TANK

NOTES:



DESCRIPTION:

PRIMARY AND SECONDARY WASTEWATER TREATMENT DEVICE USING BOTH FIXED FILM AND WITH MULTI-STAGE AEROBIC PROCESS. TANK CAPACITIES LISTED ARE FOR STANDARD UNITS

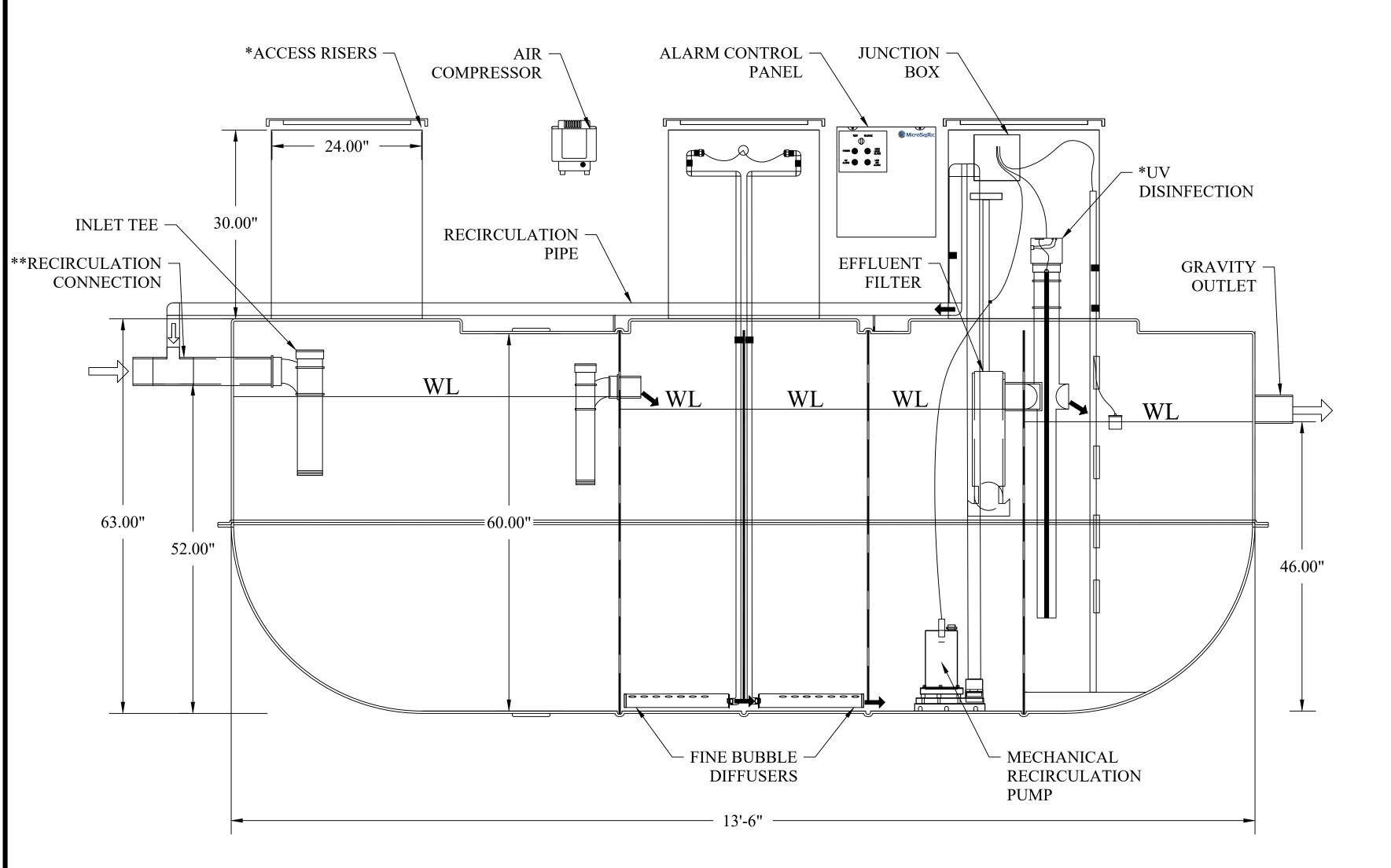
ENVIROSERVER - ES SERIES ES4.5-GR

DESIGN TREATMENT CAPACITY (gpd)
TOTAL TANK CAPACITY (gal)
TOTAL LENGTH
DIAMETER (in.)
INLET HEIGHT (in.)
OUTLET HEIGHT (in.)
BIOMEDIA VOLUME (cu.ft.)
AIR DIFFUSER
AIR COMPRESSOR
RECIRCULATION CONTROL
ALARM CONTROL PANEL
TELEMETRY

R	AV/MRP		3 MOU 1(877)-4	1 AFFON JND HOU SEPTIC	SO DRIVE SE, NV 89706 [1(877)473-7842] SEPTEC.COM
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ENVIROSERVER - ES SERIES ES4.5-GRAV/MRP/UV

DESCRIPTION:



NOTES:

*MATERIALS NOT SUPPLIED BY MICROSEPTEC **RECIRCULATION CONNECTION MUST BE LOCATED AT A MINIMUM OF 3FT FROM THE TANK

TANK LAYOUT (ELEVATION VIEW)

PRIMARY AND SECONDARY WASTEWATER TREATMENT DEVICE USING BOTH FIXED FILM AND SUSPENDED GROWTH WITH MULTI-STAGE AEROBIC PROCESS. TANK CAPACITIES LISTED ARE FOR STANDARD UNITS

450
1500
13'-6"
60
52
46
15
2-EDI FINE BUBBLE
HIBLOW 100LL
MECHANICAL
MCPR-G
OPTIONAL
SALCOR 3G

MicroSepTec
31 AFFONSO DRIVE MOUND HOUSE, NV 89706 1(877)-4SEPTIC [1(877)473-7842] WWW.MICROSEPTEC.COM
NOTES
 GENERAL: 1. THE MIDDLE THREE CHAMBERS SHOULD NEVER BE PUMPED DRY, ESPECIALLY IN HIGH GROUNDWATER CONDITIONS 2. RISERS AND RISER ADAPTERS NOT SUPPLIED BY MICROSEPTEC 3. PLUMBING DIMENSIONS FROM OUTSIDE EDGE OF TANK TO INVERT OF INLET AND OUTLET
 CONTRACTOR TO PROVIDE ADDITIONAL PLUMBING FOR ANY BURIAL DEPTH GREATER THAN 4FT SITE-SPECIFIC CHARACTERISTICS INCLUDING BUT NOT LIMITED TO: BURIAL DEPTH, TRAFFIC OR OTHER EXTERNAL LOADING, SEASONAL GROUNDWATER, AND SOIL CHARACTERISTICS
SHOULD BE CONFIRMED WITH A LOCAL DESIGN ENGINEER BEFORE INSTALLATION TANK BURIAL: 6. THE DESIGNED TANK BURIAL DEPTH IS 2FT TO 6FT. ANY TANK BURIED BEYOND THAT RANGE MUST
 BE ANALYZED BY A LOCAL DESIGN ENGINEER COVER TO BE A MINIMUM OF 2FT. ENGINEERED BACKFILL TO BE A MINIMUM OF 12" ALONG SIDES AND BOTTOM OF TANK GEOLOGIST OR GEOTECHNICAL ENGINEER TO DETERMINE IF ANCHORS AND TEXTILE FILTER ARE REQUIRED.
 DEPTH OF SOIL SLOPE CUT PER LOCAL CODE OR SOIL REPORT VERTICAL CUT FOR FILL HEIGHT CAN BE DONE IF APPROVED BY LOCAL CODE OR SOIL ENGINEER GEOLOGIST OR GEOTECH ENGINEER SHOULD DETERMINE IF CORROSIVE RESISTANT MATERIAL SHOULD BE USED IN ANY STEEL PARTS EXPOSED
IN THE SOIL

DRAWN:	DATE:	JOB NUMBER:	
AJM	2/10/21	ES4.5	
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REVISION:	DATE:	DESCRIPTION:	
	BY:	DESCRIPTION.	

SITE INFORMATION:

ES 4.5 ENVIROSERVER ADVANCED WASEWATER TREATMENT SYSTEM

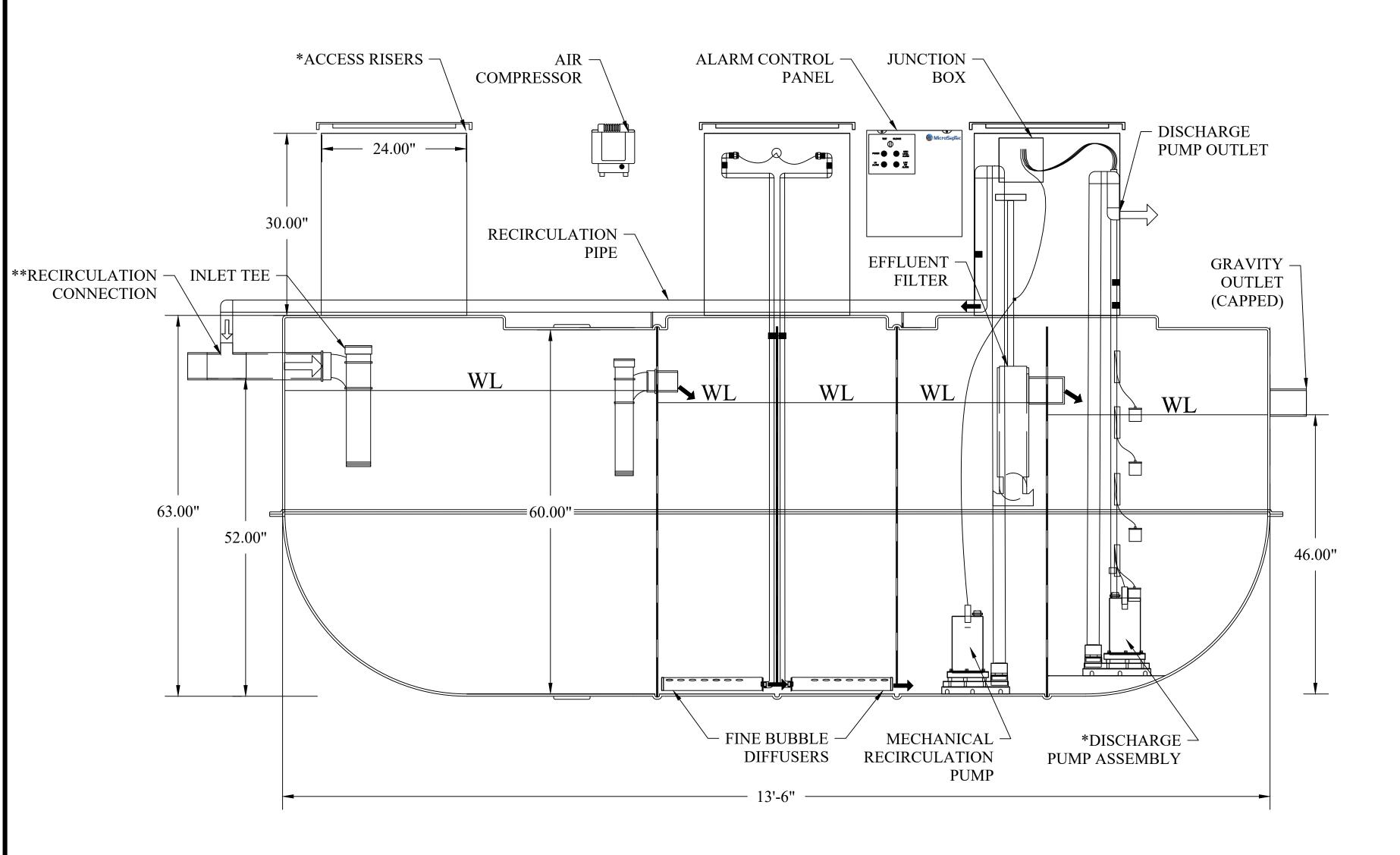
SHEET TITLE:

ES4.5-GRAV/MRP/UV

SHEET NUMBER:

S C A L E 1"=1'-0"





NOTES:

*MATERIALS NOT SUPPLIED BY MICROSEPTEC **RECIRCULATION CONNECTION MUST BE LOCATED AT A MINIMUM OF 3FT FROM THE TANK

TANK LAYOUT (ELEVATION VIEW)

ENVIROSERVER - ES SERIES ES4.5-PUMP/MRP

PRIMARY AND SECONDARY WASTEWATER TREATMENT DEVICE USING BOTH FIXED FILM AND SUS WITH MULTI-STAGE AEROBIC PROCESS. TANK CAPACITIES LISTED ARE FOR STANDARD UNITS

DESIGN TREATMENT CAPACITY (gpd)	
TOTAL TANK CAPACITY (gal)	
TOTAL LENGTH	
DIAMETER (in.)	
INLET HEIGHT (in.)	
OUTLET HEIGHT (in.)	
BIOMEDIA VOLUME (cu.ft.)	
AIR DIFFUSER	
AIR COMPRESSOR	
RECIRCULATION CONTROL	
ALARM CONTROL PANEL	
TELEMETRY	
DISCHARGE PUMP	ļ

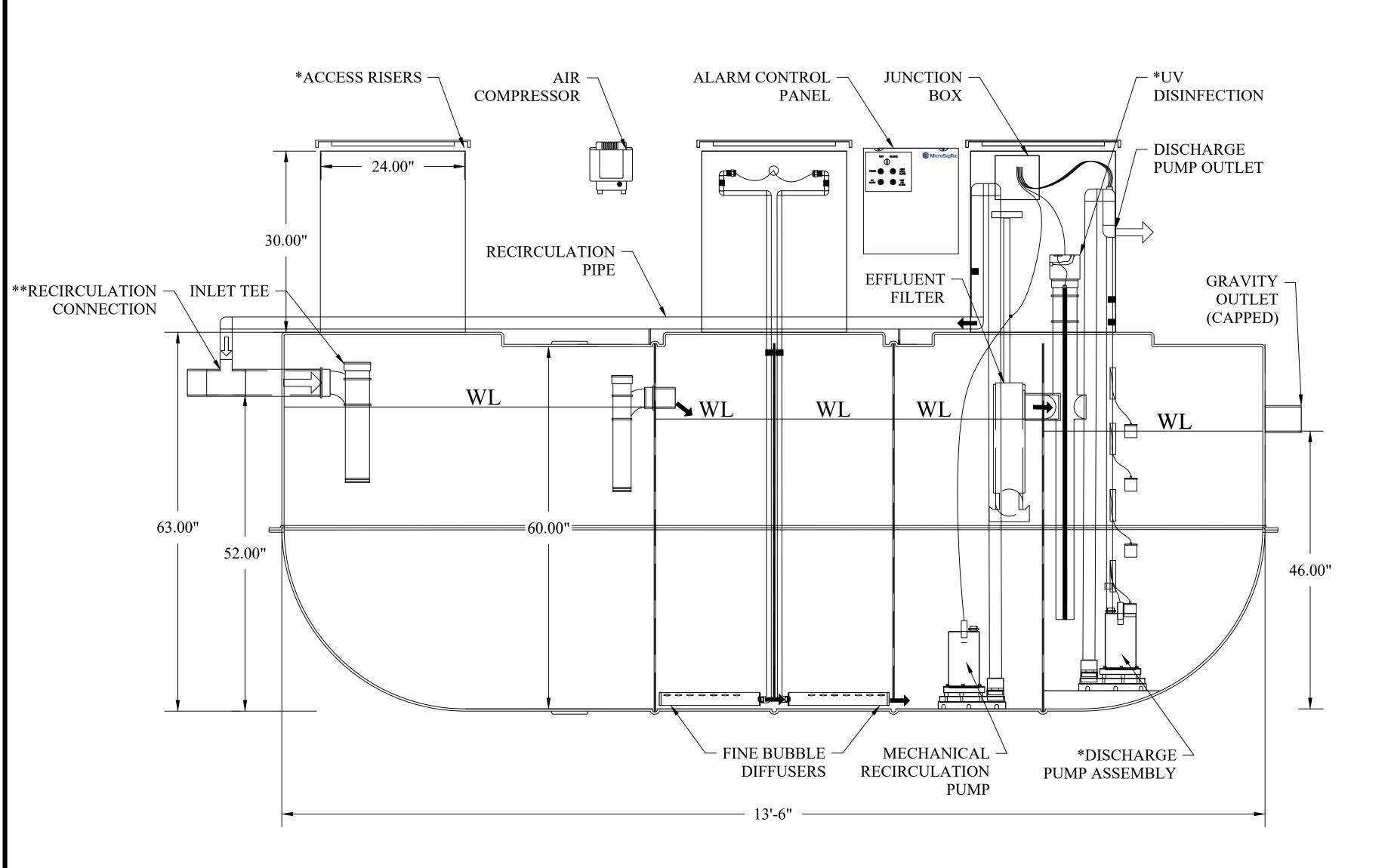
/IP//NIKP	MOU 1(877)-4	JND HOU SEPTIC	SO DRIVE JSE, NV 89706 [1(877)473-7842] DSEPTEC.COM
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46			
15 2-EDI FINE BUBBLE			
HIBLOW 100LL			
MECHANICAL			
MCPR-DP			
OPTIONAL	DRAWN:	DATE:	JOB NUMBER:
SIMPLEX OR DUPLEX	AJM	2/10/21	ES4.5
		REV	 VISION:
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		SITE INFO	DRMATION:
		ENVIRO ANCED V	4.5 SERVER WASEWATER NT SYSTEM
		SHEE	T TITLE:
		ES4.5-PU	MP/MRP
		SHEET	NUMBER:
SCALE 1		1 C	D F 1
1"=1'-0"			

MicroSepTec

TANK LAYOUT (ELEVATION VIEW)

*MATERIALS NOT SUPPLIED BY MICROSEPTEC **RECIRCULATION CONNECTION MUST BE LOCATED AT A MINIMUM OF 3FT FROM THE TANK

NOTES:



ENVIROSERVER - ES SERIES ES4.5-PUMP/MRP/UV

DESCRIPTION:

PRIMARY AND SECONDARY WASTEWATER TREATMENT DEVICE USING BOTH FIXED FILM AND SUSPENDED GROWTH WITH MULTI-STAGE AEROBIC PROCESS. TANK CAPACITIES LISTED ARE FOR STANDARD UNITS

DESIGN TREATMENT CAPACITY (gpd)	450
TOTAL TANK CAPACITY (gal)	1500
TOTAL LENGTH	13'-6"
DIAMETER (in.)	60
INLET HEIGHT (in.)	52
OUTLET HEIGHT (in.)	46
BIOMEDIA VOLUME (cu.ft.)	15
AIR DIFFUSER	2-EDI FINE BUBBLE
AIR COMPRESSOR	HIBLOW 100LL
RECIRCULATION CONTROL	MECHANICAL
ALARM CONTROL PANEL	MCPR-DP
TELEMETRY	OPTIONAL
DISCHARGE PUMP	SIMPLEX OR DUPLEX
DISINFECTION	SALCOR 3G

		OSEPTEC
_		SO DRIVE JSE, NV 89706
1(877)-4	SEPTIC	[1(877)473-7842
WWV	W.MICRO	SEPTEC.COM
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BE PUMI GROUNE 2. RISERS A MICROSS 3. PLUMBIN TANK TO 4. CONTRA PLUMBIN THAN 4F 5. SITE-SPE NOT LIM OTHER E GROUNE SHOULD ENGINEI TANK BURIAL 6. THE DES ANY TAN BE ANAI 7. COVER T 8. ENGINEI ALONG S 9. GEOLOG DETERM ARE REQ 10. DEPTH O SOIL REI 11. VERTICA	PED DRY, ESPE DWATER COND AND RISER AD. EPTEC NG DIMENSION D INVERT OF IN CTOR TO PROV NG FOR ANY B T CCIFIC CHARAC IITED TO: BURI EXTERNAL LOA DWATER, AND BE CONFIRME ER BEFORE INS COMPACTION OF CONFIRME ER BEFORE INS COMPACTION OF CONFIRME ER BEFORE INS COMPACTION OF CONFIL SIDES AND BO SIDES AND BO COMPACTION OF CONFIL SIDES AND BO COMPACTION OF CONFIL SIDES AND BO COMPACTION OF CONFIL SIDES AND BO CONT AL CUT FOR FIL ED BY LOCAL	APTERS NOT SUPPLIED BY IS FROM OUTSIDE EDGE C NLET AND OUTLET VIDE ADDITIONAL URIAL DEPTH GREATER CTERISTICS INCLUDING B IAL DEPTH, TRAFFIC OR ADING, SEASONAL SOIL CHARACTERISTICS ED WITH A LOCAL DESIGN STALLATION BURIAL DEPTH IS 2FT TO 6 YOND THAT RANGE MUS DCAL DESIGN ENGINEER
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12. GEOLOG DETERM SHOULD IN THE S	IINE IF CORROS	CH ENGINEER SHOULD SIVE RESISTANT MATERL NY STEEL PARTS EXPOSE
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SITE INFORMATION: ES 4.5 ENVIROSERVER

ENVIROSERVER ADVANCED WASEWATER TREATMENT SYSTEM

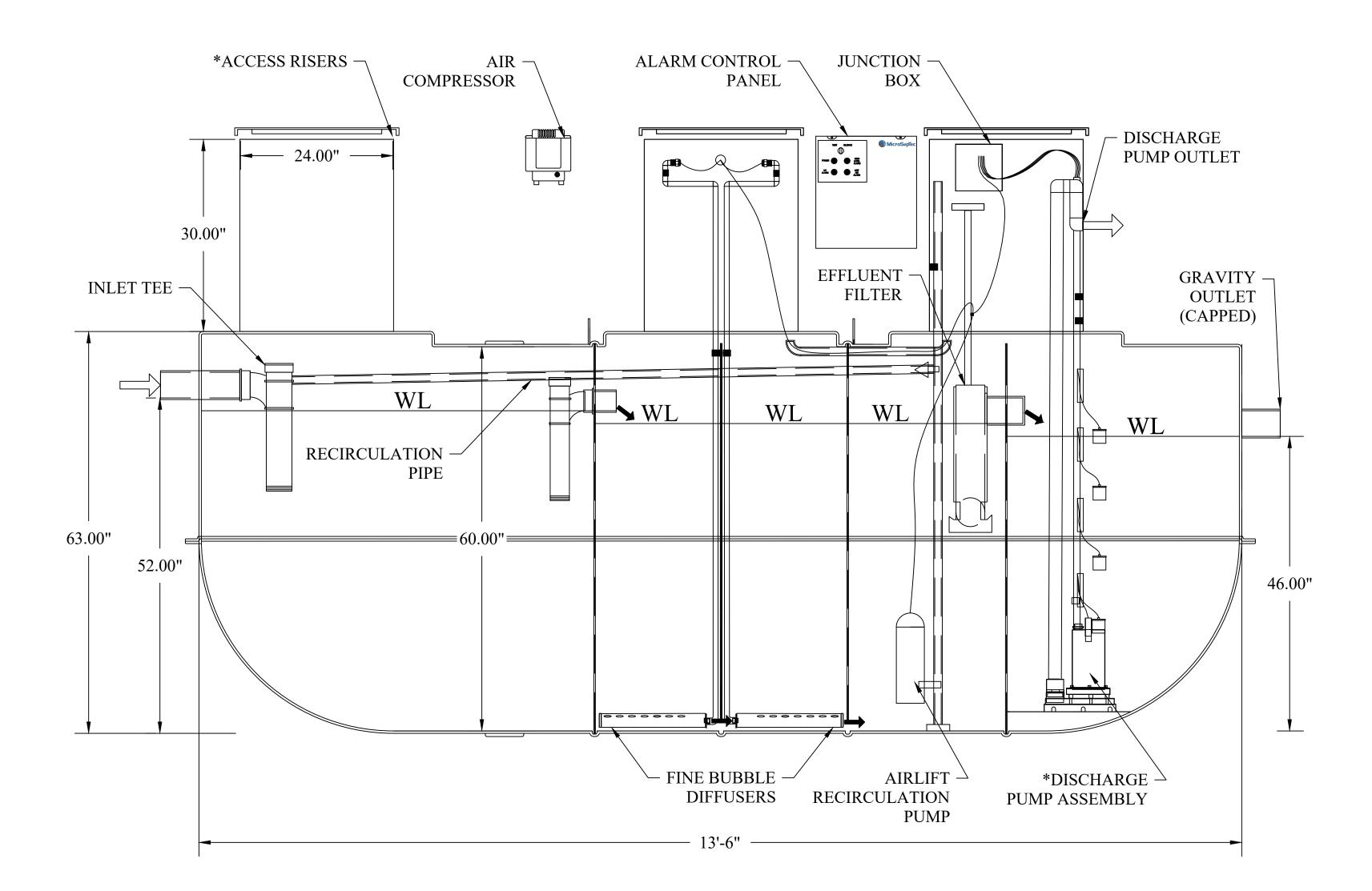
SHEET TITLE:

ES4.5-PUMP/MRP/UV

SHEET NUMBER:

S C A L E	
1"=1'-0"	





NOTES:

*MATERIALS NOT SUPPLIED BY MICROSEPTEC

TANK LAYOUT (ELEVATION VIEW)

ENVIROSERVER - ES SERIES ES4.5-PUN

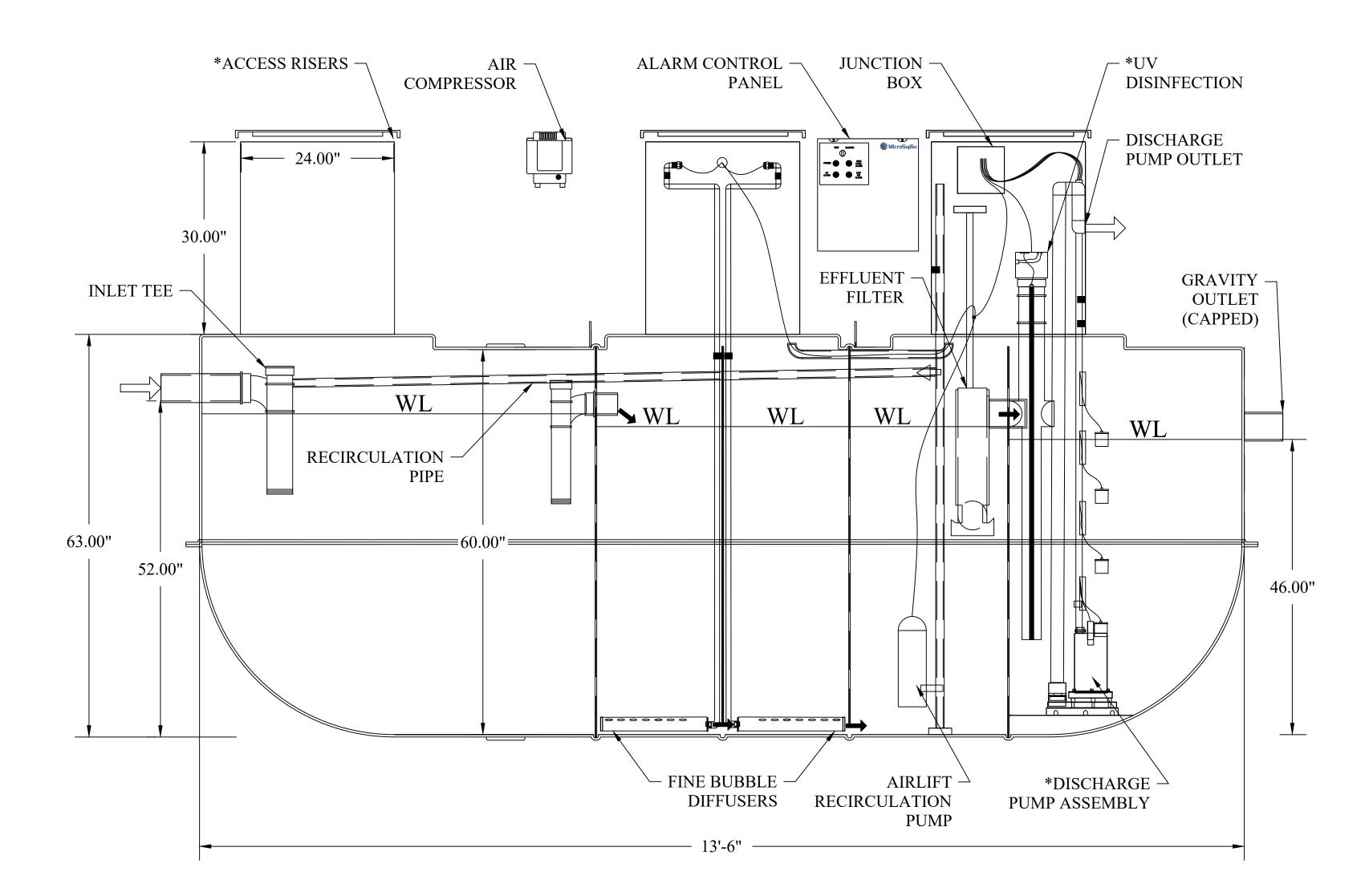
PRIMARY AND SECONDARY WASTEWATER TREATMENT DEVICE USING BOTH FIXED FILM AND SU WITH MULTI-STAGE AEROBIC PROCESS. TANK CAPACITIES LISTED ARE FOR STANDARD UNITS

DESIGN TREATMENT CAPACITY (gpd)
TOTAL TANK CAPACITY (gal)
TOTAL LENGTH
DIAMETER (in.)
INLET HEIGHT (in.)
OUTLET HEIGHT (in.)
BIOMEDIA VOLUME (cu.ft.)
AIR DIFFUSER
AIR COMPRESSOR
RECIRCULATION CONTROL
ALARM CONTROL PANEL
TELEMETRY
DISCHARGE PUMP

MP/SOI		3 MOU 1(877)-4	1 AFFON JND HOU SEPTIC	SO DRIVE USE, NV 89706 [1(877)473-7842] DSEPTEC.COM
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MCPR-DPOPTIONAL		DRAWN:	DATE:	JOB NUMBER:
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			SITE INFO	DRMATION:
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ENVIROSERVER - ES SERIES ES4.5-PUMI

DESCRIPTION:



NOTES:

*MATERIALS NOT SUPPLIED BY MICROSEPTEC

TANK LAYOUT (ELEVATION VIEW)

PRIMARY AND SECONDARY WASTEWATER TREATMENT DEVICE USING BOTH FIXED FILM AND SUSPENDED GROWTH WITH MULTI-STAGE AEROBIC PROCESS. TANK CAPACITIES LISTED ARE FOR STANDARD UNITS

DESIGN TREATMENT CAPACITY (gpd)	450
TOTAL TANK CAPACITY (gal)	1500
TOTAL LENGTH	13'-6"
DIAMETER (in.)	60
INLET HEIGHT (in.)	52
OUTLET HEIGHT (in.)	46
BIOMEDIA VOLUME (cu.ft.)	15
AIR DIFFUSER	2-EDI FINE BUBBLE
AIR COMPRESSOR	HIBLOW 100LL
RECIRCULATION CONTROL	SOLENOID
ALARM CONTROL PANEL	MCPR-DP
TELEMETRY	OPTIONAL
DISCHARGE PUMP	SIMPLEX OR DUPLEX
DISINFECTION	SALCOR 3G

P/SO]	L/UV

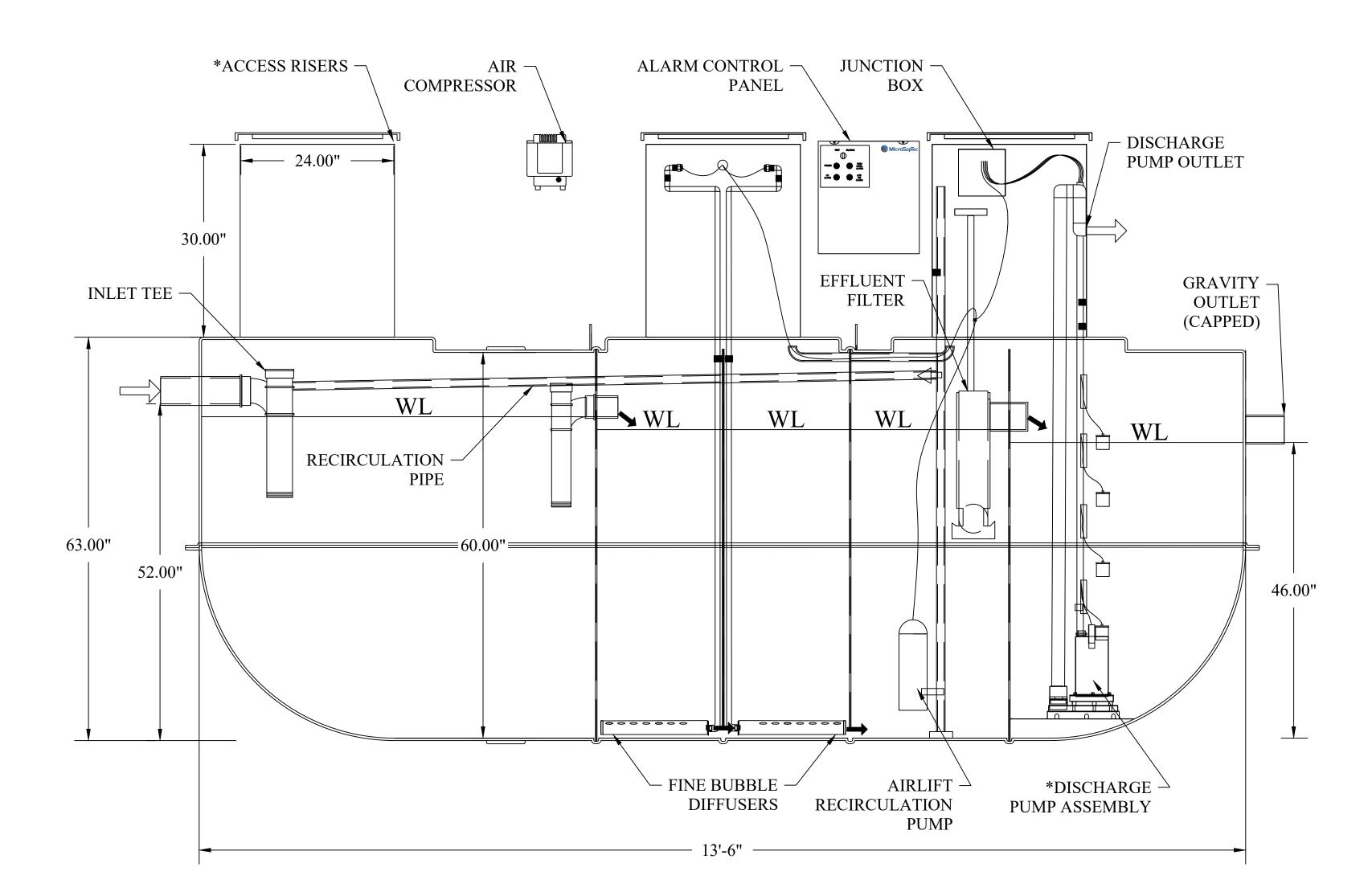
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	UND HOU	JSE, NV 89706
· · · ·		[1(877)473-784 SEPTEC.COM
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SOIL RE	PORT	CUT PER LOCAL CODE
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SHEET NUMBER:

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1"=1'-0"	





NOTES:

*MATERIALS NOT SUPPLIED BY MICROSEPTEC

TANK LAYOUT (ELEVATION VIEW)

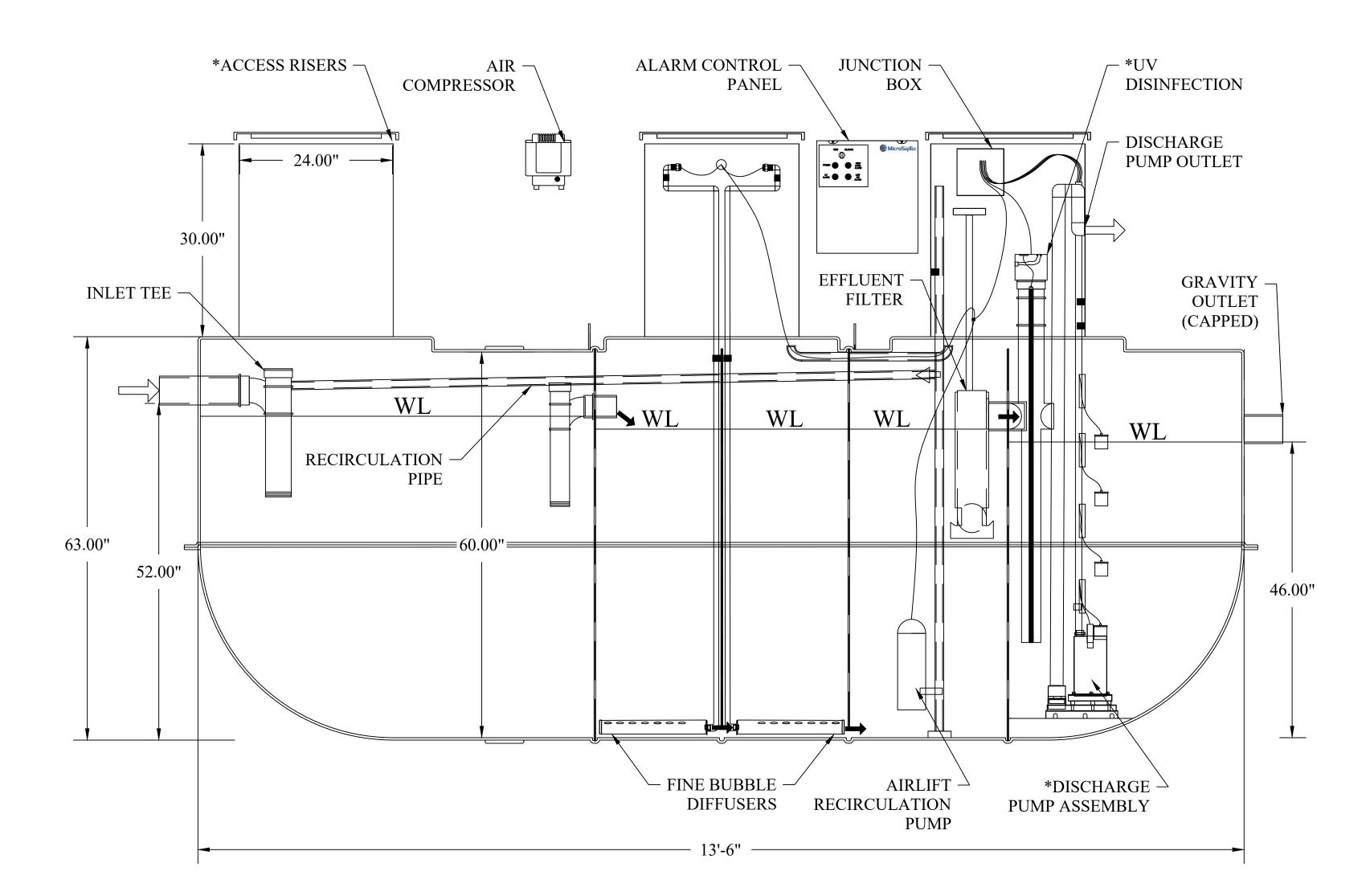
ENVIROSERVER - ES SERIES ES4.5-PU

PRIMARY AND SECONDARY WASTEWATER TREATMENT DEVICE USING BOTH FIXED FILM AND SU WITH MULTI-STAGE AEROBIC PROCESS. TANK CAPACITIES LISTED ARE FOR STANDARD UNITS

DESIGN TREATMENT CAPACITY (gpd)
TOTAL TANK CAPACITY (gal)
TOTAL LENGTH
DIAMETER (in.)
INLET HEIGHT (in.)
OUTLET HEIGHT (in.)
BIOMEDIA VOLUME (cu.ft.)
AIR DIFFUSER
AIR COMPRESSOR
RECIRCULATION CONTROL
ALARM CONTROL PANEL
TELEMETRY
DISCHARGE PUMP

MP/NV	3 MOU 1(877)-4	1 AFFON UND HOU SEPTIC	SO DRIVE USE, NV 89706 [1(877)473-7842] DSEPTEC.COM
SUSPENDED GROWTH	BE PUMI GROUNI 2. RISERS A MICROS 3. PLUMBI TANK TO 4. CONTRA PLUMBI THAN 4F 5. SITE-SPF NOT LIM OTHER F GROUNI SHOULD ENGINE	DDLE THREE CH PED DRY, ESPE DWATER COND AND RISER AD EPTEC NG DIMENSION O INVERT OF IN ACTOR TO PROV NG FOR ANY B T ECIFIC CHARAC MITED TO: BUR EXTERNAL LOA DWATER, AND D BE CONFIRME ER BEFORE INS 2:	APTERS NOT SUPPLIED BY NS FROM OUTSIDE EDGE OF NLET AND OUTLET VIDE ADDITIONAL URIAL DEPTH GREATER CTERISTICS INCLUDING BUT IAL DEPTH, TRAFFIC OR ADING, SEASONAL SOIL CHARACTERISTICS ED WITH A LOCAL DESIGN
 450 1500 13'-6" 60 52 46 15 2-EDI FINE BUBBLE HIBLOW 100LL NEEDLE VALVE 	BE ANAL 7. COVER 7 8. ENGINE ALONG 9. GEOLOC DETERM ARE REC 10. DEPTH C SOIL REL 11. VERTICA APPROV 12. GEOLOC DETERM	LYZED BY A LO TO BE A MINIM ERED BACKFIL SIDES AND BO GIST OR GEOTE INE IF ANCHO QUIRED. DF SOIL SLOPE PORT AL CUT FOR FII ED BY LOCAL GIST OR GEOTE INE IF CORROS D BE USED IN A	YOND THAT RANGE MUST DCAL DESIGN ENGINEER IUM OF 2FT. L TO BE A MINIMUM OF 12" TTOM OF TANK CHNICAL ENGINEER TO RS AND TEXTILE FILTER CUT PER LOCAL CODE OR LL HEIGHT CAN BE DONE IF CODE OR SOIL ENGINEER CH ENGINEER SHOULD SIVE RESISTANT MATERIAL NY STEEL PARTS EXPOSED
L MCPR-DP Z OPTIONAL	DRAWN:	DATE:	JOB NUMBER:
P SIMPLEX OR DUPLEX	AJM	2/10/21	ES4.5
		REV DATE:	VISION:
	REVISION:	BY:	DESCRIPTION:
		SITE INFO	ORMATION:
	ES 4.5 ENVIROSERVER ADVANCED WASEWATER TREATMENT SYSTEM SHEET TITLE:		SERVER WASEWATER
		ES4.5-PU	
		SHEET	NUMBER:
$\frac{SCALE}{1''=1' 0''}$		1 C) F 1
1"=1'-0" I			





NOTES:

*MATERIALS NOT SUPPLIED BY MICROSEPTEC

TANK LAYOUT (ELEVATION VIEW)

ENVIROSERVER - ES SERIES ES4.5-PUM

PRIMARY AND SECONDARY WASTEWATER TREATMENT DEVICE USING BOTH FIXED FILM AND SUS WITH MULTI-STAGE AEROBIC PROCESS. TANK CAPACITIES LISTED ARE FOR STANDARD UNITS

DESIGN TREATMENT CAPACITY (gpd)	450
TOTAL TANK CAPACITY (gal)	1500
TOTAL LENGTH	13'-6"
DIAMETER (in.)	60
INLET HEIGHT (in.)	52
OUTLET HEIGHT (in.)	46
BIOMEDIA VOLUME (cu.ft.)	15
AIR DIFFUSER	2-EDI FINE BUBBLE
AIR COMPRESSOR	HIBLOW 100LL
RECIRCULATION CONTROL	NEEDLE VALVE
ALARM CONTROL PANEL	MCPR-DP
TELEMETRY	OPTIONAL
DISCHARGE PUMP	SIMPLEX OR DUPLEX
DISINFECTION	SALCOR 3G

/IP/NV/UV	
SPENDED GROWTH	

		oSepte
MOU 1(877)-4	JND HOU SEPTIC	SO DRIVE JSE, NV 89706 [1(877)473-7842] DSEPTEC.COM
	NO	TES
BE PUMI GROUNE 2. RISERS A MICROS 3. PLUMBIT TANK TO 4. CONTRA PLUMBIT THAN 4F 5. SITE-SPE NOT LIM OTHER F GROUNE SHOULD	PED DRY, ESPE DWATER COND AND RISER AD EPTEC NG DIMENSION D INVERT OF IN CTOR TO PROV NG FOR ANY B T ECIFIC CHARAC IITED TO: BUR EXTERNAL LOA DWATER, AND	APTERS NOT SUPPLIED BY IS FROM OUTSIDE EDGE O ILET AND OUTLET VIDE ADDITIONAL URIAL DEPTH GREATER CTERISTICS INCLUDING BU IAL DEPTH, TRAFFIC OR ADING, SEASONAL SOIL CHARACTERISTICS ID WITH A LOCAL DESIGN
ANY TAI BE ANAI 7. COVER 7 8. ENGINE ALONG 9 9. GEOLOG DETERM ARE REC 10. DEPTH C SOIL REI 11. VERTICA APPROV 12. GEOLOG DETERM	GIGNED TANK H NK BURIED BE LYZED BY A LO FO BE A MINIM ERED BACKFIL SIDES AND BO GIST OR GEOTE UINE IF ANCHO QUIRED. DF SOIL SLOPE PORT AL CUT FOR FII ED BY LOCAL HST OR GEOTE UNE IF CORROS DE USED IN A	BURIAL DEPTH IS 2FT TO 6 YOND THAT RANGE MUST OCAL DESIGN ENGINEER UM OF 2FT. L TO BE A MINIMUM OF 12 FTOM OF TANK CHNICAL ENGINEER TO RS AND TEXTILE FILTER CUT PER LOCAL CODE OR LL HEIGHT CAN BE DONE I CODE OR SOIL ENGINEER CH ENGINEER SHOULD SIVE RESISTANT MATERIA NY STEEL PARTS EXPOSEI
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	ES ENVIRO	

SHEET TITLE:

ES4.5-PUMP/NV/UV

SHEET NUMBER:

1 OF 1

S C A L E	
1"=1'-0"	