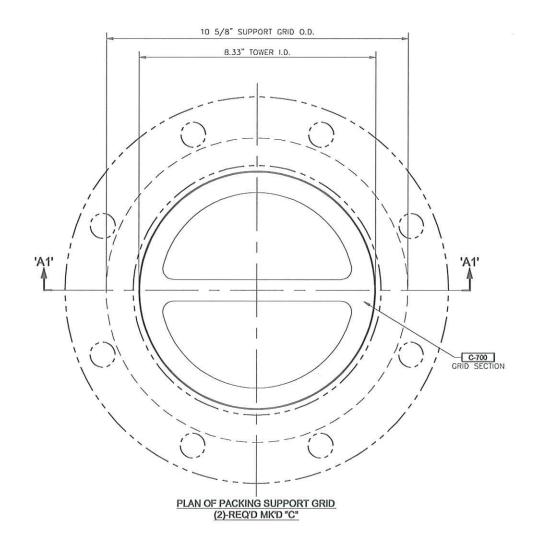
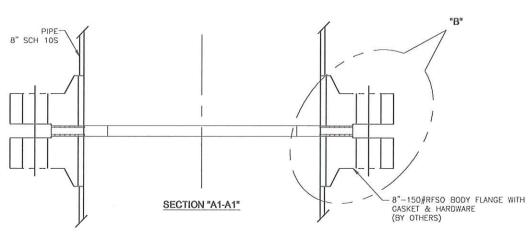
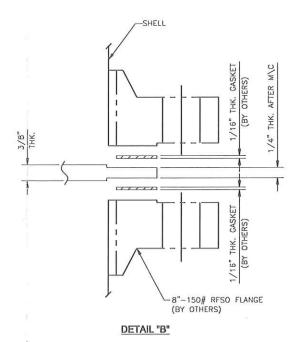


DDCE Confidential









### NOTES

- NOTES

  1. TOWER MANHOLE 1.0. ACTUAL: 8.33"

  2. PARTS SUPPLIED BY KOCH-GOLISCH ARE IDENTIFIED BY MARK # (E.G. A-301) ENCLOSED AS SHOWN [A-301].

  3. BOLTING ASSEMBLIES ARE ENCLOSED THUS: QUANTITY PER TRAY. ASSEMBLY NUMBER

  101 /1010R

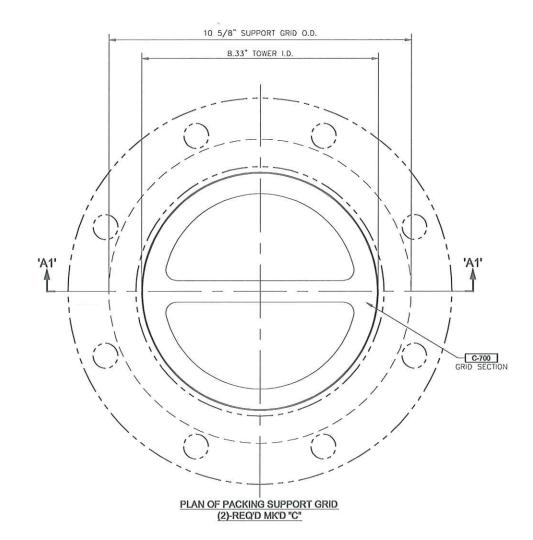
  4. DIMENSIONS ARE GIVEN IN: INCHES

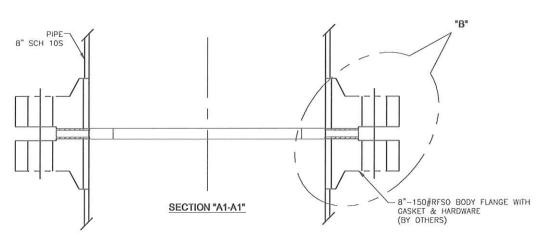
  5. ANY MODIFICATIONS BY CUSTOWER OR ANY THIRD PARTY TO THE EQUIPMENT SHOWN ON THIS DRAWING WITHOUT THE PRIOR WRITTEN APPROVAL OF KOCH-GLITSCH WILL VOID ALL EXPRESSED AND IMPLIED WARRANTIES, INCLUDING ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR PURPOSE.

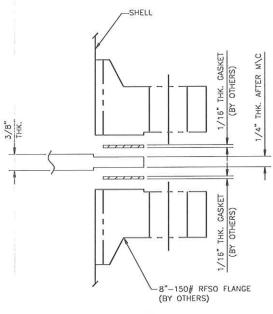
# REFERENCE DRAWINGS DRAWING 979201-D000 FOR VESSEL ARRANGEMENT.

EQUIPMENT DESCRIPTION DESCRIPTION REMARKS BELOW BED #1 & 2 PACKING SUPPORT GRID CHG.BY/DATE APPVD
VDG
04 Aug 09 MTG
MNS
17 Aug 09 MTG DESCRIPTION OF REVISION APPROVED FOR FABRICATION. CUSTOMER'S IDENTIFICATION

		CUSTOMER'S IDENTIFICATION 12	200
LIST OF M	ATERIAL	PURCHASED BY: DUPONT DANISCO CELLULOSIC, ITASCA,IL. P.O. NO.: DDCE11-0050	(T)
DESCRIPTION	TYPE & THICKNESS	USER: DUPONT DANISCO CELLULOSIC ETHL   PLANT SITE: VONORE, TN	ž
GRID SECTION	304L - 3/8" THK (BEFORE M/C)	SPEC. NO: KOCH GLITSCH REFERENCE: TOWER SERVICE: COLUMN # 3 PLANT SECTION:	3
=		M.KOCH-GLITSCH KOCH-GLITSCH	ኞ
-		MASS TRANSFER TECHNOLOGY	
_		DRAWN RY: MNS DATE: OR Jul 09	0
=		CHECK BY: SMM DATE: 10 Jul 09 SALES ORDER NO.: 979201 PART NO.: 97920103 PROCESS: MTG DATE: 10 Jul 09 WORK ORDER NO.: 8071138	3
-		DRAWING ISSUE TOWER I.D. TOWER NO.	Į
-		APPROVED FOR CERTIFIED FINAL 8.33" V4210(1) FABRICATION: AS FABRICATED: DWG. NO.: 979201-D003	S
-	-	RY: MTC RY:	Ż







### DETAIL "B"

### NOTES

- NOTES

  1. TOWER MANHOLE I.D. ACTUAL: B.33"

  2. PARTS SUPPLIED BY KOCH-GUITSCH ARE IDENTIFIED BY MARK # (E.G. A-301) ENCLOSED AS SHOWN [A-301].

  3. BOLTING ASSEMBLIES ARE ENCLOSED THUS: QUANTITY PER TRAY. ASSEMBLY NUMBER

  101 /1010R

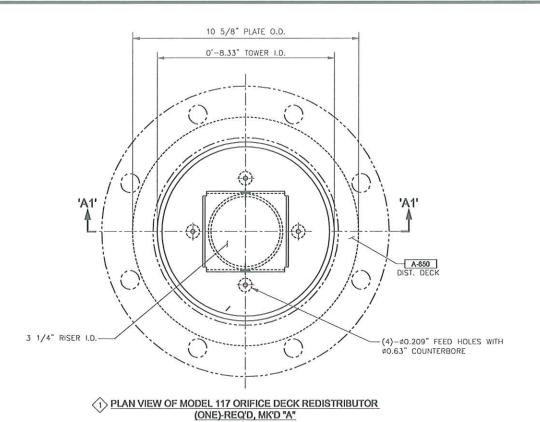
  4. DIMENSIONS ARE GIVEN IN: INCHES

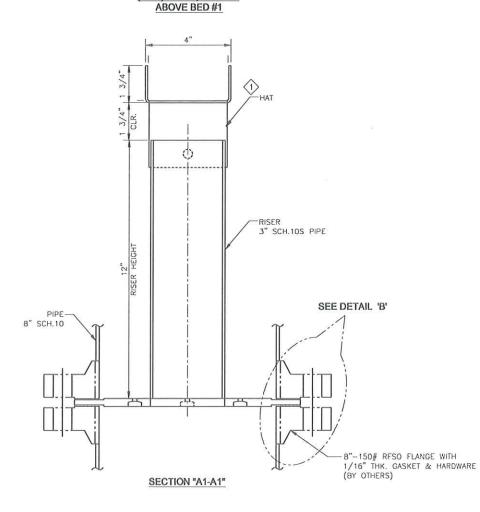
  5. ANY MODIFICATIONS BY CUSTOWER OR ANY THIRD PARTY TO THE EQUIPMENT SHOWN ON THIS DRAWING WITHOUT THE PRIOR WRITTEN APPROVAL OF KOCH-GLITSCH WILL VOID ALL EXPRESSED AND IMPLIED WARRANTIES, INCLUDING ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR PURPOSE.

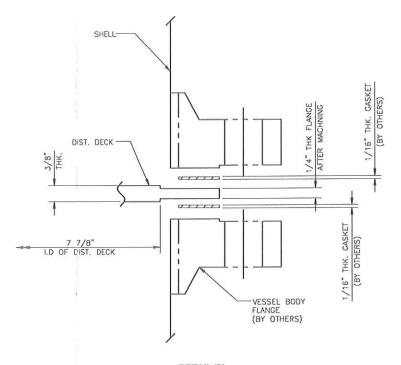
PRAWING 979201-D000 FOR VESSEL ARRANGEMENT.

QUAN	ITEM	DESCRIPTION	RE	MARKS	
2	С	PACKING SUPPORT GRID	BELOW	BED #1 &	2
•	(•)/	•		•	
NO.		DESCRIPTION OF REVISION		CHG.BY/DATE	APPVD
		RKED.		VDG	MTG

		00010	W F I O I D F I		0 11
LIST OF M	ATERIAL		T DANISCO CELLULO: 1-0050	SIC, ITASCA,IL.	
DESCRIPTION	TYPE & THICKNESS	USER: DUPONT DANISCO (	CELLULOSIC ETHL PLAN	T SITE: VONORE, T	N A
GRID SECTION	304L = 3/8" THK (BEFORE M/C)	SPEC. NO: KOCH GLITSO TOWER SERVICE: COLUMN		RENCE: T SECTION:	ADY
-		KC.KOCH-	GLITSCH	KOCH-G	
-		MASS TRANSFER	RTECHNOLOGY	WICHITA,	KS, USA
=			DATE: 08 Jul 09	PACKING SUP	
-			DATE: 10 Jul 09 DATE: 10 Jul 09	SALES ORDER NO. : PART NO. : WORK ORDER NO. :	979201 97920103 8071138
-		DRAWING	ISSUE	TOWER I.D. 8.33"	TOWER NO. V4210(1)
=		APPROVED FOR FABRICATION:	CERTIFIED FINAL AS FABRICATED:	DWG. NO.: 97920	
-		BY: MTG DATE: 17 Aug 09	BY: - DATE: -	SHT. 1 OF 1	REV. 🕸







DETAIL 'B'

THE DISTRIBUTOR HOLES ARE 0.209"IN DIAMETER. THE CUSTOMER SHOULD TAKE CORRECTIVE ACTION TO ELIMINATE SOLIDS ACCUMULATION IN THE PROCESS. INTERNAL FILTER SCREENS HAVE NOT BEEN INCLUDED, PARALLEL FILTERS ARE RECOMMENDED IN EXTERNAL FEED / REFLUX LINES TO PROTECT AGAINST DISTRIBUTOR BLOCKAGE. KOCH-GLITSCH SUGGESTS THAT 0.012" MAXIMUM OPENINGS BE USED FOR FILTER MESH, BUT ASSUMES NO RESPONSIBILITY FOR RECOMMENDING OR DESIGNING FILTERS. SHOULD SOLIDS ACCUMULATION IMPAIR THE PERFORMANCE OF THE DISTRIBUTOR(S), KOCH-GLITSCH'S PERFORMANCE WARRANTY WILL BE VOIDED. REFER TO KOCH-GLITSCH'S TERMS AND CONDITIONS CONCERNING RESPONSIBILITY FOR PROCESS CLEANLINESS.

#### NOTES

- NOTES

  1. TOWER MANHOLE I.D. ACTUAL: 8.33"

  2. PARTS SUPPLIED BY KOCH-GLISCH ARE IDENTIFIED BY MARK # (E.G. A-301) ENCLOSED AS SHOWN [A-301].

  3. BOLTING ASSEMBLES ARE ENCLOSED THUS:
  QUANTITY PER TRYY. ASSEMBLY NUMBER

  1. DIMENSIONS ARE GIVEN IN: INCHES

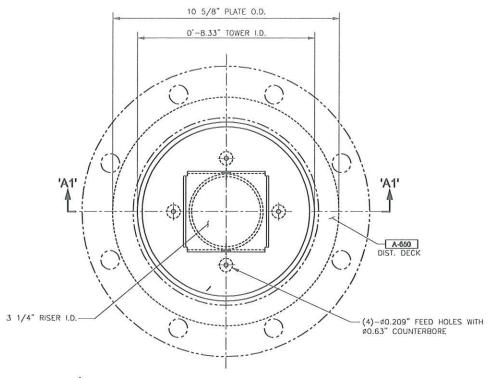
  5. ANY MODIFICATIONS BY CUSTOMER OR ANY THIRD PARTY TO THE EQUIPMENT SHOWN ON THIS DRAWING WITHOUT THE PRIOR WRITTEN APPROVAL OF KOCH-GLISCH WILL VOID ALL EXPRESSED AND IMPLIED WARRANTIES, INCLUDING ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR PURPOSE.

PREFERENCE DRAWINGS

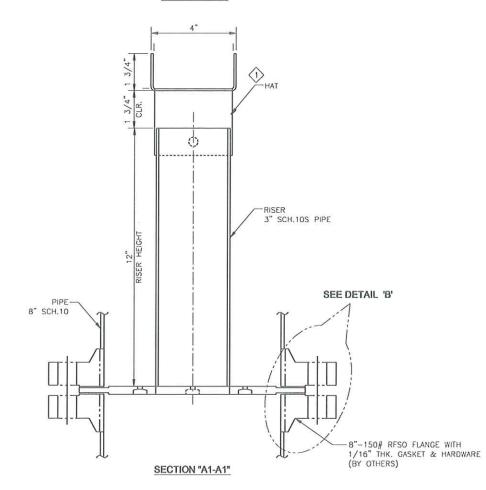
DRAWING 979201-D000 FOR VESSEL ARRANGEMENT.

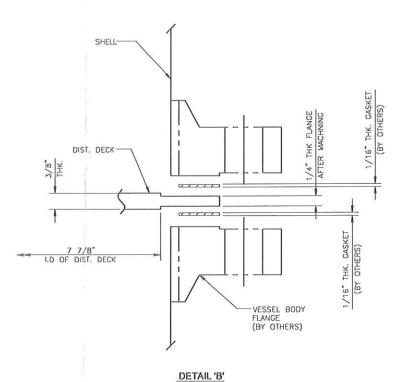
		DISTRIBUTOR FLOW	RATE	S	
MAXIN	MUM	1.43 GPM		- M^3	/HR
DESIG	SN	1.43 GPM		- M^3	/HR
MINIM	MUM.	0.71 GPM		- M^3	HR
		EQUIPMENT DESCR	IPTION	1	
QUAN	ITEM	DESCRIPTION	RE	MARKS	
1	Α	1)117 ORIFICE DECK REDISTRIBUTOR	ABOV	E BED #1	
=	-	_		_	
NO.		DESCRIPTION OF REVISION		CHC.BY/DATE	APPV0
VI-	10.75.00.100.100	MARKED. FOR FABRICATION.		VDG 04 Aug D9 MNS 17 Aug 09	MTG MTG

		CUST	OMER'S IDE	NTIFICATI	O N	DEEN PR
LIST OF M	ATERIAL		ONT DANISCO CELLUL	OSIC, ITASCA,IL.		
LIST OF M			E11-0050			D
DESCRIPTION	TYPE & THICKNESS	USER: DUPONT DANISCO		INT SITE: VONORE, T	N Z	Z
DIST, DECK	304L = 3/8" THK	SPEC. NO: KOCH GLIT		ERENCE:	<u>\</u>	<b>⋝</b>
RISER	304L - (AS NOTED)	TOWER SERVICE: COLUN	MN #3 [PLA	NT SECTION:		21
HAT (1)	304L = 12 GA		01 12001	KOCH-G	LITSCH	Þ١
_		ike.Koch	-GLITSCI			<b>5</b> 1
-		MASS TRANSES	ER TECHNOLOGY	WICHITA,	KS, USA	=1
-		© 2009 KOCH-GUTSCH, LP. ALL		MODEL: 11		<b>동</b> I
_	- u -		DATE: 08 Jul 09	ORIFICE DECK R	EDISTRIBUTOR S	21
=		DRAWN BY: VDG	TA Charles	SALES ORDER NO. :	979201	-
2		CHECK BY: SMM	DATE: 15 Jul 09	PART NO. :	97920101	51
-		PROCESS: MTG	DATE 15 Jul 09	WORK ORDER NO. :	8071136	-11
-		DRAWIN	NG ISSUE	TOWER I.D.	TOWER NO.	<del>7</del> 1
×		APPROVED FOR	CERTIFIED FINAL	0'-8.33"	V4210 (1)	_
-		FABRICATION:	AS FABRICATED:	DWG. NO.: 97920	1-D001	n
=	<u> </u>	BY: MTG	BY: -			Z
-	× <del>11</del>	DATE: 17 Aug 09	DATE: -	SHT. 1 OF 1	REV. 🔷 =	_



PLAN VIEW OF MODEL 117 ORIFICE DECK REDISTRIBUTOR (ONE)-REQ'D, MK'D "A" ABOVE BED #1





THE DISTRIBUTOR HOLES ARE 0.209"IN DAMETER. THE CUSTOWER SHOULD TAKE CORRECTIVE ACTION TO ELIMINATE SOLIDS ACCUMULATION IN THE PROCESS. INTERNAL FILTER SCREENS HAVE NOT BEEN INCLUDED. PARALLEL FILTERS ARE RECOMMENDED IN EXTERNAL FEED / REFLUX INES TO PROTECT AGAINST DISTRIBUTOR BLOCKAGE. KOCH-GUISCH SUGGESTS THAT 0.012" MAXIMUM OPENINGS BE USED FOR FILTER WESH, BUT ASSUMES NO RESPONSIBILITY FOR RECOMMENDING OR DESIGNING FILTERS. SHOULD SOLIDS ACCUMULATION IMPAIR THE PERFORMANCE OF THE DISTRIBUTORIS), KOCH-GLITISCH'S PERFORMANCE WARRANTY WILL BE VOIDED. REFER TO KOCH-GLITISCH'S TERMS AND CONDITIONS CONCERNING RESPONSIBILITY FOR PROCESS CLEANLINESS.

#### NOTES

- NOTES

  1. TOWER WANHOLE I.D. ACTUAL: 8.33"

  2. PARTS SUPPLIED BY KOCH-GLISCH ARE IDENTIFIED BY MARK # (E.G. A-301) ENCLOSED AS SHOWN [A-301].

  3. BOLTING ASSEMBLES ARE ENCLOSED THUS:
  QUANTITY PER TRAYA. ASSEMBLY NUMBER

  101 /1010R

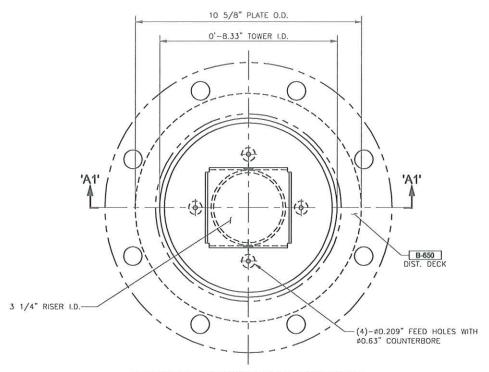
  4. DIMENSIONS ARE GIVEN IN: INCHES
  5. ANY MODIFICATIONS BY CUSTOMER OR ANY THIRD PARTY TO THE EQUIPMENT SHOWN ON THIS DRAWING WITHOUT THE PRIOR WRITTEN APPROVAL OF KOCH-GLISCH WILL VOID ALL EXPRESSED AND MPLIED WARRANTIES, INCLUDING ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR PURPOSE.

PREFERENCE DRAWINGS

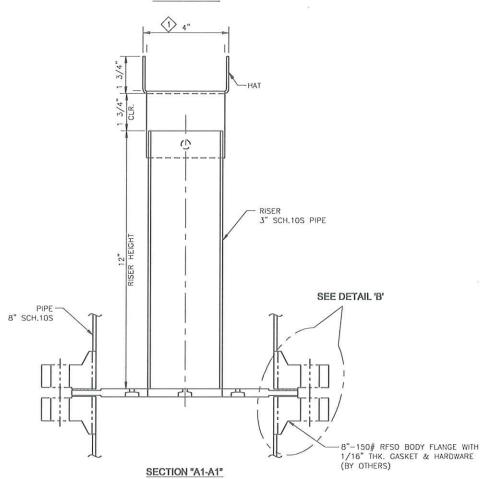
DRAWING 979201-D000 FOR VESSEL ARRANGEMENT.

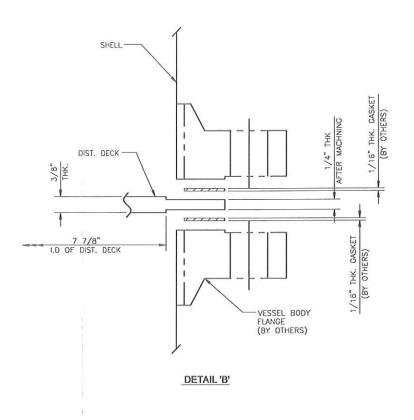
	DI	STRIBUTOR	FLOW	RATES	3	
MAXIN	MUM	1.43 G	PM		- M^3	/HR
DESIG	N .	1.43 G	PM		- M^3	HR
MINIM	UM	0.71 G	PM		- M^3	HR
	E	QUIPMENT D	ESCRI	PTION		
QUAN	ITEM _	DESCRIPTION		REA	MARKS	
1	A (1)	117 ORIFICE DECK RED	ISTRIBUTOR	ABOVE	BED #1	
-	- ~	=				
NO.		DESCRIPTION OF RE	VISION		CHG.BY/DATE	APPVI
<b>VI-</b>	ISED AS MARY			1	VDG 04 Aug 09 MNS 17 Aug 09	MTG MTG
	CUS	TOMER'S ID	ENTIF	ICATIO	NC	

1107 07 1		PURCHASED BY: DUP	ONT DANISCO CELL	LULOSIC, ITASCA,IL.	P
LIST OF M	ATERIAL	P.O. NO.: DDC	E11-0050		
DESCRIPTION	TYPE & THICKNESS	USER: DUPONT DANISCO	CELLULOSIC ETHL	PLANT SITE: VONORE	E, TN
DIST. DECK	304L - 3/8" THK	SPEC. NO: KOCH GLIT		REFERENCE:	
RISER	304L - (AS NOTED)	TOWER SERVICE: COLUM	MN #3	PLANT SECTION:	
HAT (1)	304L - 12 GA			WILL KOCH	GLITSCH
		KOCH	-GLI LSU	n I'''ll en	TA, KS, USA
=		MASS TRANSFE	R TECHNOLO		IA, NJ, UJA
-		© 2009 KOCH-GUTSCH, LP. ALL		MODEL:	117
-		DOAWN DV. VDC	DATE: 08 Jul 0	ORIFICE DEC	K REDISTRIBUTOR
		DRAWN BY: VDG		SALES ORDER NO.	: 979201
-		CHECK BY: SMM PROCESS: MTG	7	PART NO. :	97920101
-			DITTEL STREET	month onder the	
_		DRAWIN	NG ISSUE	TOWER I.D.	
-		APPROVED FOR	CERTIFIED FINAL	0'-8.33"	V4210 (1)
<del>=</del>		FABRICATION:	AS FABRICATED:	DWG. NO.: 979	9201-D001
-	-	BY: MTG	BY: -		
-	_	DATE: 17 Aug 09	DATE: -	SHT. 1 OF	1 REV. 🕸



## PLAN VIEW OF 117 ORIFICE DECK REDISTRIBUTOR (ONE)-REQ'D, MK'D "B" ABOVE BED #2





THE DISTRIBUTOR HOLES ARE 0.209"IN DIAMETER. THE CUSTOMER SHOULD TAKE CORRECTIVE ACTION TO ELIMINATE SOLIDS ACCUMULATION IN THE PROCESS. INTERNAL FILTER SCREENS HAVE NOT BEEN INCLUDED. PARALLEL FILTERS ARE RECOMMENDED IN EXTERNAL FEED / REFLUX LINES TO PROTECT AGAINST DISTRIBUTOR BLOCKAGE. KOCH-GUITSCH SUGGESTS THAT 0.12" MAXIMUM OPENINGS BE USED FOR FILTER MESH, BUT ASSUMES NO RESPONSIBILITY FOR RECOMMENDING OR DESIGNING FILTERS. SHOULD SOUDS ACCUMULATION IMPAIR THE PERFORMANCE OF THE DISTRIBUTOR(S), KOCH-GLITSCH'S PERFORMANCE WARRANTY WILL BE VOIDED. REFER TO KOCH-GLITSCH'S TERMS AND CONDITIONS CONCERNING RESPONSIBILITY FOR PROCESS CLEANLINESS.

### NOTES

NOTES

1. TOWER MANHOLE I.D. ACTUAL: 8.33"

2. PARTS SUPPLIED BY KOCH-GLITSCH ARE IDENTIFIED BY MARK # (E.G. A-301) ENCLOSED AS SHOWN [A-301].

3. BOLTING ASSEMBLIES ARE ENCLOSED THUS: QUANTITY PER TRAY. ASSEMBLY NUMBER (101 1010R)

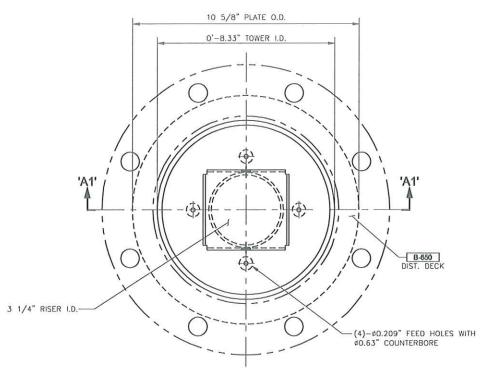
4. DIMENSIONS ARE GIVEN IN: INCHES

5. ANY MODIFICATIONS BY CUSTOMER OR ANY THIRD PARTY TO THE EQUIPMENT SHOWN ON THIS DRAWING WITHOUT THE PRIOR WRITTEN APPROVAL OF KOCH-GLITSCH WILL VOID ALL EXPRESSED AND IMPLIED WARRANTIES, INCLUDING ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR PURPOSE. OR FITNESS FOR PURPOSE.

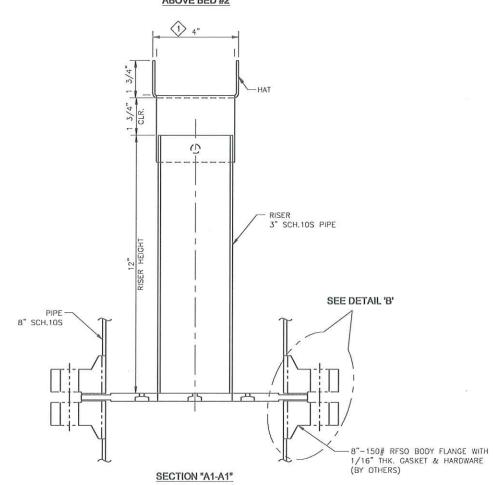
REFERENCE DRAWINGS DRAWING 979201-D000 FOR VESSEL ARRANGEMENT.

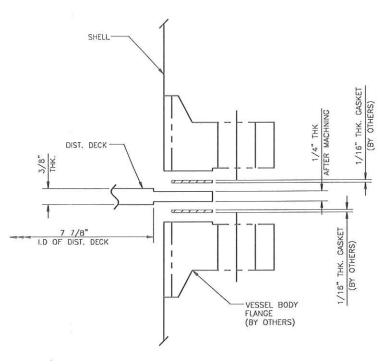
		DISTRIBUTOR	FLOW	RATES	3	
MAXIN	MUM	2.01 GI	PM .		- M^;	3/HR
DESIC	SN	2.01 G	PM		- M^.	3/HR
MINIM	IUM	1.01 G	PM .		- M^:	3/HR
		EQUIPMENT D	ESCRI	PTION		
QUAN	ITEM	DESCRIPTION		REA	MARKS	
1	В	117 REDISTRIBUT	117 REDISTRIBUTOR ABOV		BOVE BED #2	
-	-	<del></del>	#4		-	
NO.		DESCRIPTION OF RE	VISION		CHG.BY/DATE	APPVD
<b>VI-</b>		MARKED. FOR FABRICATION.			VDG 04 Aug 09 MNS 17 Aug 09	MTG MTG
	С	USTOMER'S ID	ENTIF	ICATIO	N C	

		000	O	
LIST OF M	MATERIAL		ONT DANISCO CELLULO E11-0050	OSIC, ITASCA,IL.
DESCRIPTION	TYPE & THICKNESS	USER: DUPONT DANISCO	The state of the s	NT SITE: VONORE TO
DIST. DECK	304L - 3/8" THK.	SPEC. NO: KOCH GLIT TOWER SERVICE: COLU		ERENCE: NT SECTION:
RISER	304L - (AS NOTED)	TOWER SERVICE: COLU	MN #3 IPLA	NI SECTION
HAT	304L = 12 GA	TH MOCH	CHITCOL	KOCH-GLITSCH
-		Me. Kuch	-GLITSCH	WICHITA, KS, USA
		MASS TRANSFI	ER TECHNOLOGY	STD.
<del>=</del> 3		© 2009 KOCH-GLITSCH, LP. ALL	RICHTS RESERVED	MODEL: 117
		DRAWN BY: SVR	DATE: 09 Jul 09	ORIFICE DECK REDISTRIBUTOR
		CHECK BY: SMM	DATE: 15 Jul 09	SALES ORDER NO. : 979201 PART NO. : 97920102
-		PROCESS: MTG	DATE: 15 Jul 09	WORK ORDER NO. : 8071137
		DRAWI	NG ISSUE	TOWER I.D. TOWER NO.
	1 : : : :	APPROVED FOR	CERTIFIED FINAL	0'-8.33" V4210 (1)
		FABRICATION:	AS FABRICATED:	DWG. NO.: 979201-D002
_,		BY: MTG	BY: -	Decree of the second se
_		DATE: 17 Aug 09	DATE: -	SHT. 1 OF 1 REV. 🗇



PLAN VIEW OF 117 ORIFICE DECK REDISTRIBUTOR (ONE)-REQ'D, MK'D "B" ABOVE BED #2





DETAIL 'B'

THE DISTRIBUTOR HOLES ARE 0.209"IN DIAMETER. THE CUSTOMER SHOULD TAKE CORRECTIVE ACTION TO ELIMINATE SOLIDS ACCUMULATION IN THE PROCESS. INTERNAL FILTER SCREENS HAVE NOT BEEN INCLUDED, PARALLEL FILTERS ARE RECOMMENDED IN EXTERNAL FEED / REFLUX LINES TO PROTECT AGAINST DISTRIBUTOR BLOCKAGE, KOCH-GUTSCH SUGGESTS THAT 0.012" MAXIMUM OPENINGS BE USED FOR FILTER MESH, BUT ASSUMES NO RESPONSIBILITY FOR RECOMMENDING OR DESIGNING FILTERS. SHOULD SOLIDS ACCUMULATION IMPAIR THE PERFORMANCE OF THE DISTRIBUTOR(S), KOCH-GLITSCH'S PERFORMANCE WARRANTY WILL BE VOIDED. REFER TO KOCH-GLITSCH'S TERMS AND CONDITIONS CONCERNING RESPONSIBILITY FOR PROCESS CLEANLINESS.

#### NOTES

(101 JOUNE)

4. DIMENSIONS ARE GIVEN IN: INCHES

5. ANY MODIFICATIONS BY CUSTOMER OR ANY THIRD PARTY
TO THE EQUIPMENT SHOWN ON THIS DRAWING WITHOUT
THE PRIOR WRITTEN APPROVAL OF KOCH-GLISCH WILL
VOID ALL EXPRESSED AND IMPLIED WARRANTIES,
INCLUDING ANY IMPLIED WARRANTIES OF MERCHANTABILITY
OR FITNESS FOR PURPOSE.

DRAWING 979201-D000 FOR VESSEL ARRANGEMENT.

		DISTRIBUTOR FLO	
MAXIN	MUN	2.01 GPM	- M^3/HR
DESIG	N	2.01 GPM	- M^3/HR
MINIM	UM	1.01 GPM	- M^3/HR
		EQUIPMENT DES	CRIPTION
QUAN	ITEM	DESCRIPTION	REMARKS
1	В	117 REDISTRIBUTOR	ABOVE BED #2
-	-		(***
NO.		DESCRIPTION OF REVISION	CHG.BY/DATE APPV
<b>VI-</b>		MARKED. FOR FABRICATION.	04 Aug 09 MTG MNS 17 Aug 09 MTG
X		USTOMER'S IDEN'	

		0001	OMENOIDEN	
LIST OF M	ATERIAL		ONT DANISCO CELLULO	SIC, ITASCA,L.
LIST OF N	MAILKIAL	P.O. NO.: DDC	E11-0050	and the same of th
DESCRIPTION	TYPE & THICKNESS	USER: DUPONT DANISCO		SITE: VONORE, TN
DIST. DECK	304L = 3/8" THK.	SPEC. NO: KOCH GLIT		RENCE:
RISER	304L - (AS NOTED)	TOWER SERVICE: COLU	MN #3 PLAN	SECTION:
HAT	304L = 12 GA	144 140011		KOCH-GLITSCH
-		Ke. Kuch	-GLITSCH	WICHITA, KS, USA
=		MASS TRANSFI	ER TECHNOLOGY	menna, ka, dan
-		@ 2009 KOCH-GLITSCH, LP. ALL		MODEL: 117
=		DRAWN BY: SVR	DATE: 109 Jul 09	ORIFICE DECK REDISTRIBUTOR
		CHECK BY: SMM	DATE: 15 Jul 09	SALES ORDER NO.: 979201
-		PROCESS: MTG		PART NO. : 97920102
=			Diffe:	WORK ORDER NO.: 8071137
-		DRAWII	NG ISSUE	TOWER I.D. TOWER NO.
=		APPROVED FOR	CERTIFIED FINAL	0'-8.33" V4210 (1)
		FABRICATION:	AS FABRICATED:	DWG. NO.: 979201-D002
-	-	BY: MTG	BY: -	
		DATE: 17 Aug 00	DATE: -	SHT. 1 OF 1 REV. 🕸