

SECTION -	C
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			BILL OF MATERIALS		
	4"	& 6" DIP LIN	E FROM INFLUENT METER & VALVE VAULT TO SCREEN BU (DWG #: M-100, M-102 & M-103)	JILDING INLET	
TAG#	QTY	SIZE	DESCRIPTION	ACTUAL LENGTH	NOTES
A27	1	6"	PE X PE PIPE CL 52 / CL / AC	6'- 9 7/8"	
A28	1	6"	MJ 45 DEGREE BEND - C153 / CL / SC	CC = 0'-3" X 0'-3"	BID LINE # 422
A29	1	6"	PE X PE PIPE CL 52 / CL / AC	7'- 8 3/8"	
A30	1	6"	MJ 90 DEGREE BEND - C153 / CL / SC	CC = 0'-5" X 0'-5"	BID LINE # 421
A31	1	6"	PE X FLG WALL SPOOL W/ 1'-0" FROM FLG SEEP RING BC	2'- 10"	
A31A	1	6"	FLG X FLG PIPE - TN140 PRIMER	7'- 7 5/8"	
A32	1	6" X 4"	FLG CONCENTRIC REDUCER - C110 / CL / TNEMEC SERIES TN140 PRIME	LL = 9.00"	BID LINE # 6
A33	2	4" X 4"	FLG TEE - C110 / CL / TN140 PRIMER	CC = 0'-6.50" X 0'-6.50"	BID LINE # 7

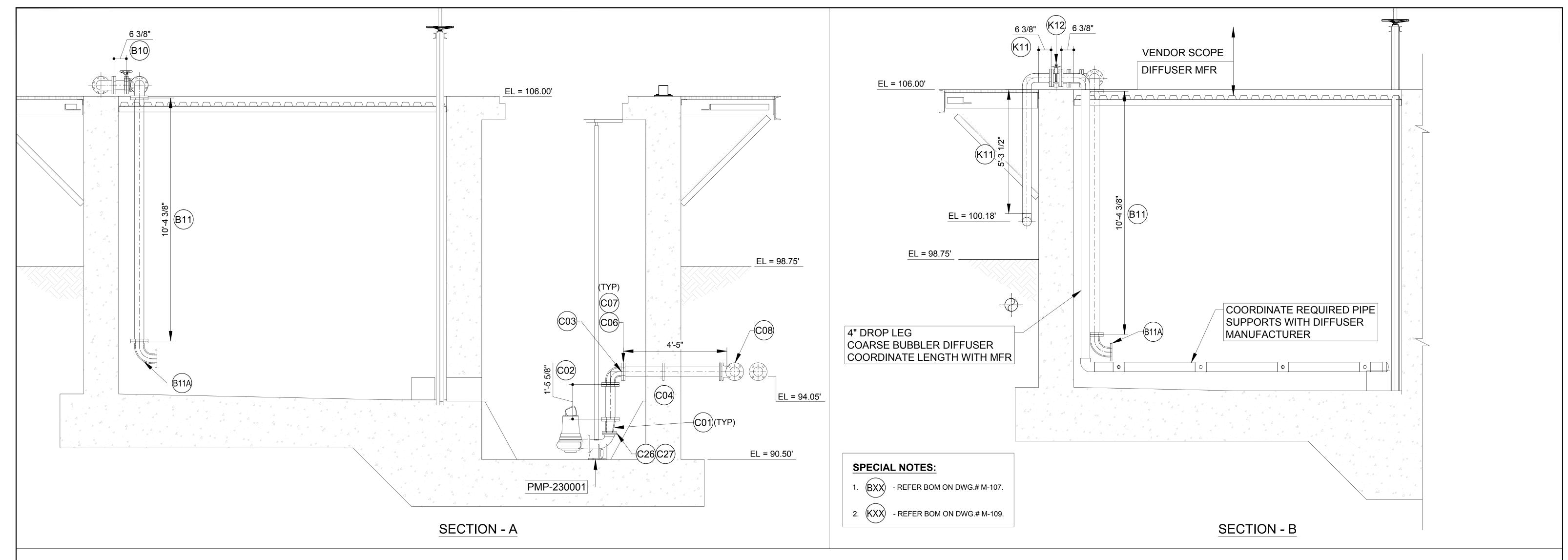
A34	1	4"	FLG PLUG VALVE W/ HANDWHEEL (NICKLE SEATS INLIEU OF SST, STEM IS DI INLIEU OF SS)	LL = 9.00"	BID LINE #8
A35	1	4"	BLIND FLANGE W/ 2" FLUSH CONNECTION C-110 / CL / TN140 PRIMER		
A36	2	6"	1/16" FULL FACE RED RUBBER GASKET, 150#		BID LINE # 18
A37	2	6"	PLATED BOLT & NUT KIT, A307 GRADE A, (8EA 3/4" X 3-1/4" BOLT WITH NUT		BID LINE # 17
A38	5	4"	1/16" FULL FACE RED RUBBER GASKET, 150#		BID LINE # 21
A39	3	4"	PLATED BOLT & NUT KIT, A307 GRADE A, (8EA 5/8" X 3" BOLT WITH NUT)		BID LINE # 19
A40	2	4"	SET 4" ZP BOLT AND NUT FOR FLG PLUG VALVE		BID LINE # 20

1. AXX - REFER BOM ON DWG.# M-101

2. BXX - REFER BOM ON DWG.# M-107

3. KXX - REFER BOM ON DWG.# M-109

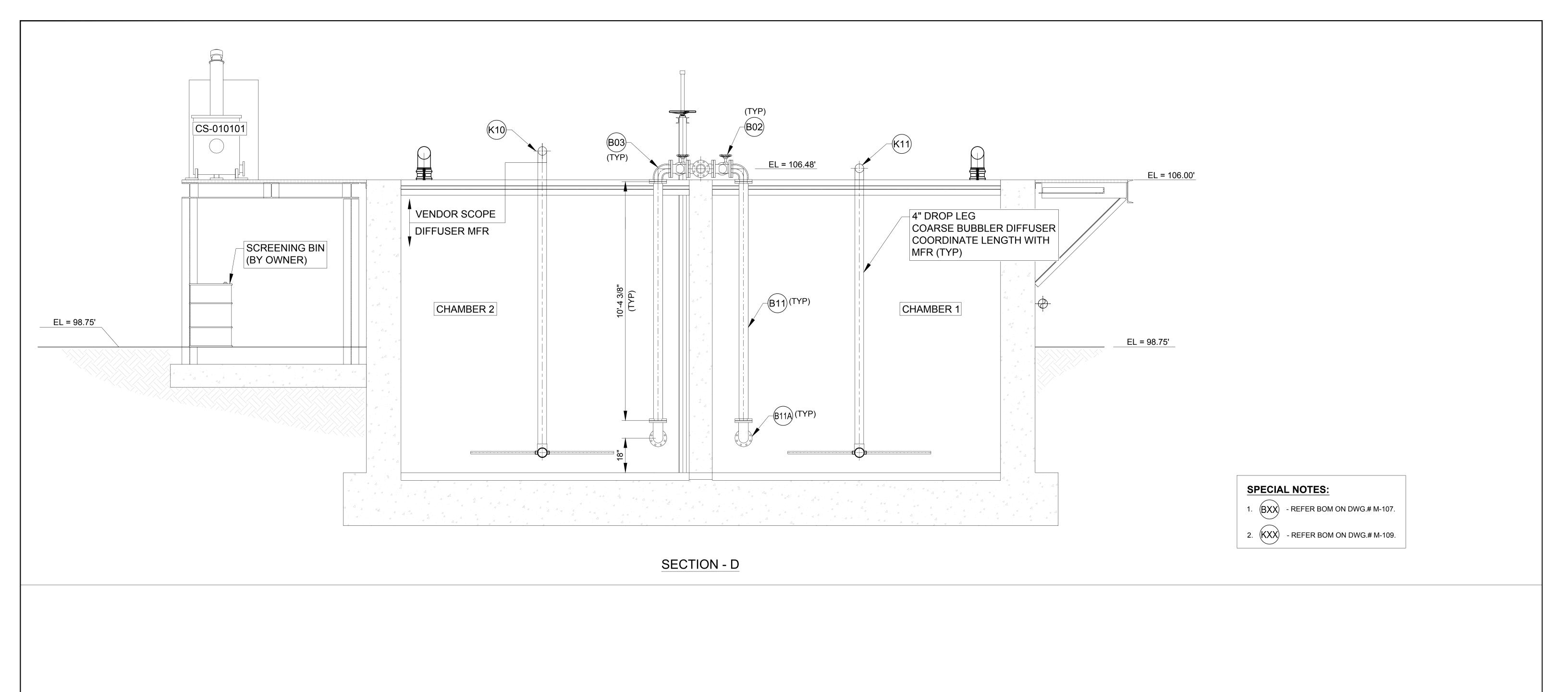
OWNER:-	ENGINEER:-	DISCLAIMER RJ Barnes and Associates has prepared these layout drawings and material lists in accordance with our interpretation of the project drawings and specifications that were provided. Approval of these drawings and material lists constitute acceptance of our interpretation of material requirements for the subject job. Please check the drawings and material lists carefully to					
		insure they are correct for your project. If corrections need to be made, please mark one set of the drawings in a	B	DRAWING REVISED AS PER COMMENTS	ST	RJB	08/24/2024
		contrasting color and return them to this office with your comments. No material shown in these drawings should be released for manufacture	À	DRAWING REVISED AS PER COMMENTS	ST	RJB	06/24/2024
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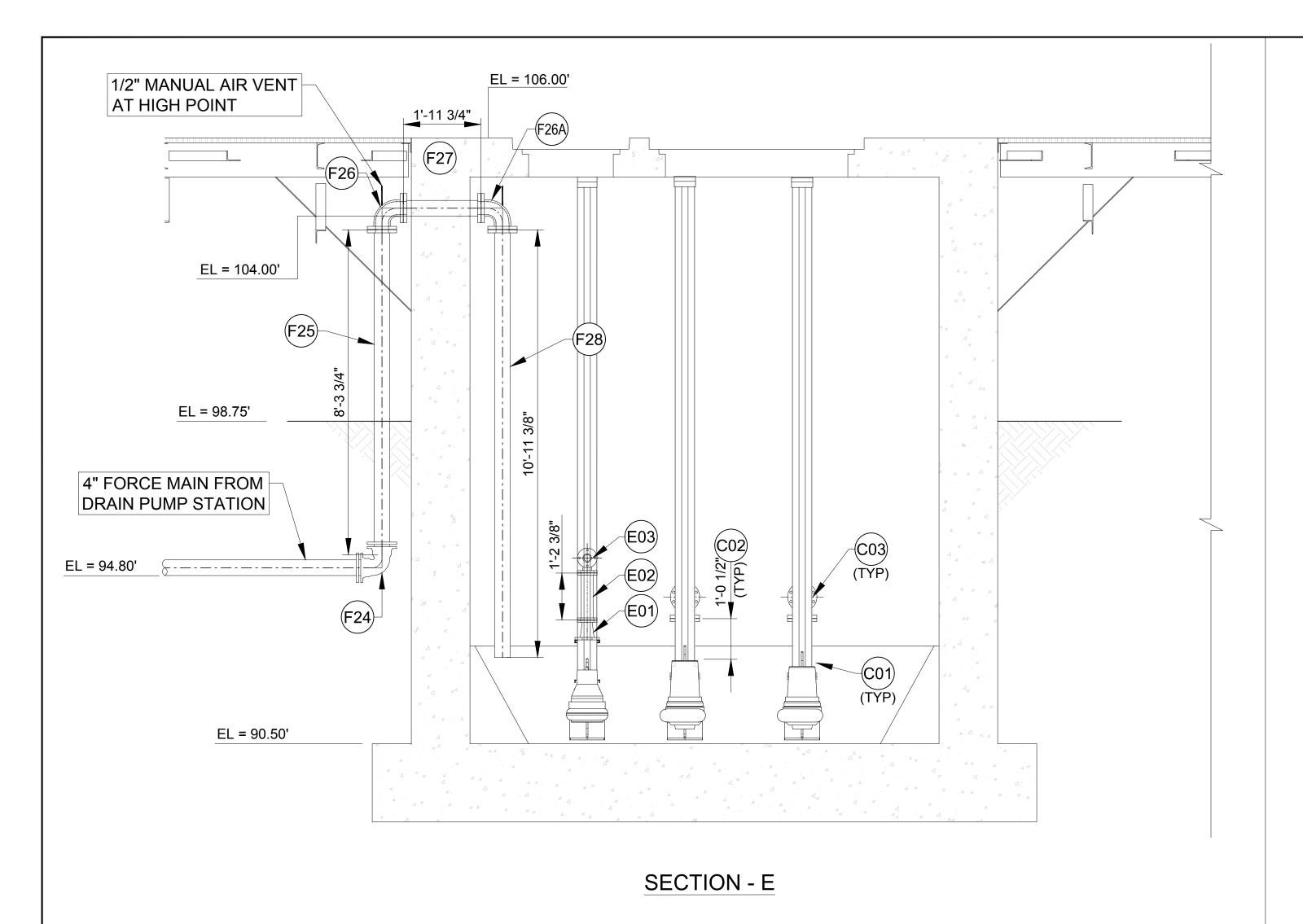
OWNER:			ENGINEER:		DIOOL	A IN AED					
C09	1	4"	PE X PE PIPE CL 52 / CL / AC	10'-1"	BID LINE # 378	C20A	1	4"	FCA501 FLANGE COUPLING ADAPTER SHOPCOAT STD B&N SBR GASKET 4.81 ROMAC		
C08	4	4"	MJ 90 DEGREE BEND - C153 / CL / SC	CC = 0'-4" X 0'-4"	BID LINE # 380	C20	1	4"	FLG X PE PIPE - TN140 PRIMER	1'- 3 7/8"	
C07	6	4"	1/16" FULL FACE RED RUBBER GASKET, 150#		BID LINE # 45	C19	1	4"	FLG WYE - C110 / CL / TN140 PRIMER	CC = 1'-0" X 0'-3"	BID LINE # 52
C06	6	4"	PLATED BOLT & NUT KIT, A307 GRADE A, (8EA 5/8" X 3" BOLT WITH NUT)			C18	1	4"	FLG X FLG PIPE - TN140 PRIMER	1'- 10"	BID LINE # 53
C05	1	4"	FLG X PE PIPE W/ 3" SEEP RING, 20.50" FROM FACE OF FLG TN140 PRIMER	5'- 5"	BID LINE # 43	C17	1	4"	FLG X FLG PIPE - TN140 PRIMER	2'- 2 1/8"	BID LINE # 54
C04	1	4"	FLG X PE PIPE W/ 3" SEEP RING, 20.50" FROM FACE OF FLG TN140 PRIMER	4'- 5"	BID LINE # 43	C16	1	4"	FLG 45 DEGREE BEND - C110 / CL / TN140 PRIMER	CC = 0'-4" X 0'-4"	BID LINE # 55
C03	2	4"	FLG 90 DEGREE BEND - C110 / CL / TN140 PRIMER	CC = 0'-6 1/2" X 0'-6 1/2"	BID LINE # 41	C15	2	4"	FLG PLUG VALVE W/GO AND HANDWHEEL	LL = 9.00"	
C02	2	4"	FLG X FLG PIPE - TN140 PRIMER	1'- 5 5/8"	BID LINE # 42	C14	2	4"	FLG CHECK VALVE W/ LEVER AND WEIGHT	LL = 13.00"	BID LINE # 56
C01	2	4" X 3"	FLG ECCENTRIC REDUCER - C110 / CL / TN140 PRIMER	LL = 7.00"		C13	1	4"	PE X FLG PIPE W/ 1/4" NPT TAP FOR PRESSURE GAUGE, TN140 PRIMER	4'- 4 1/2"	BID LINE # 57 & 58
TAG#	QTY	SIZE	DESCRIPTION	ACTUAL LENGTH	NOTES	C12	1	4"	PE X FLG PIPE W/ 1/4" NPT TAP FOR PRESSURE GAUGE, TN140 PRIMER	5'- 4 1/2"	BID LINE # 57 & 58
	4'	" DIP LINE FF	ROM EQ. TANK PUMPS DISCHARGE CONNECT TO MBR BU (DWG #: M-100, M-102 & M-104)	ILDING INLET		C11	8	4"	WEDGE ACTION MJ KIT FOR DI PIPE W/BOLTS, WEDGE ACTION GLAND & GASKET		BID LINE # 382
			BILL OF MATERIALS			C10	1	4"	PE X PE PIPE CL 52 / CL / AC	10'-7"	BID LINE # 378

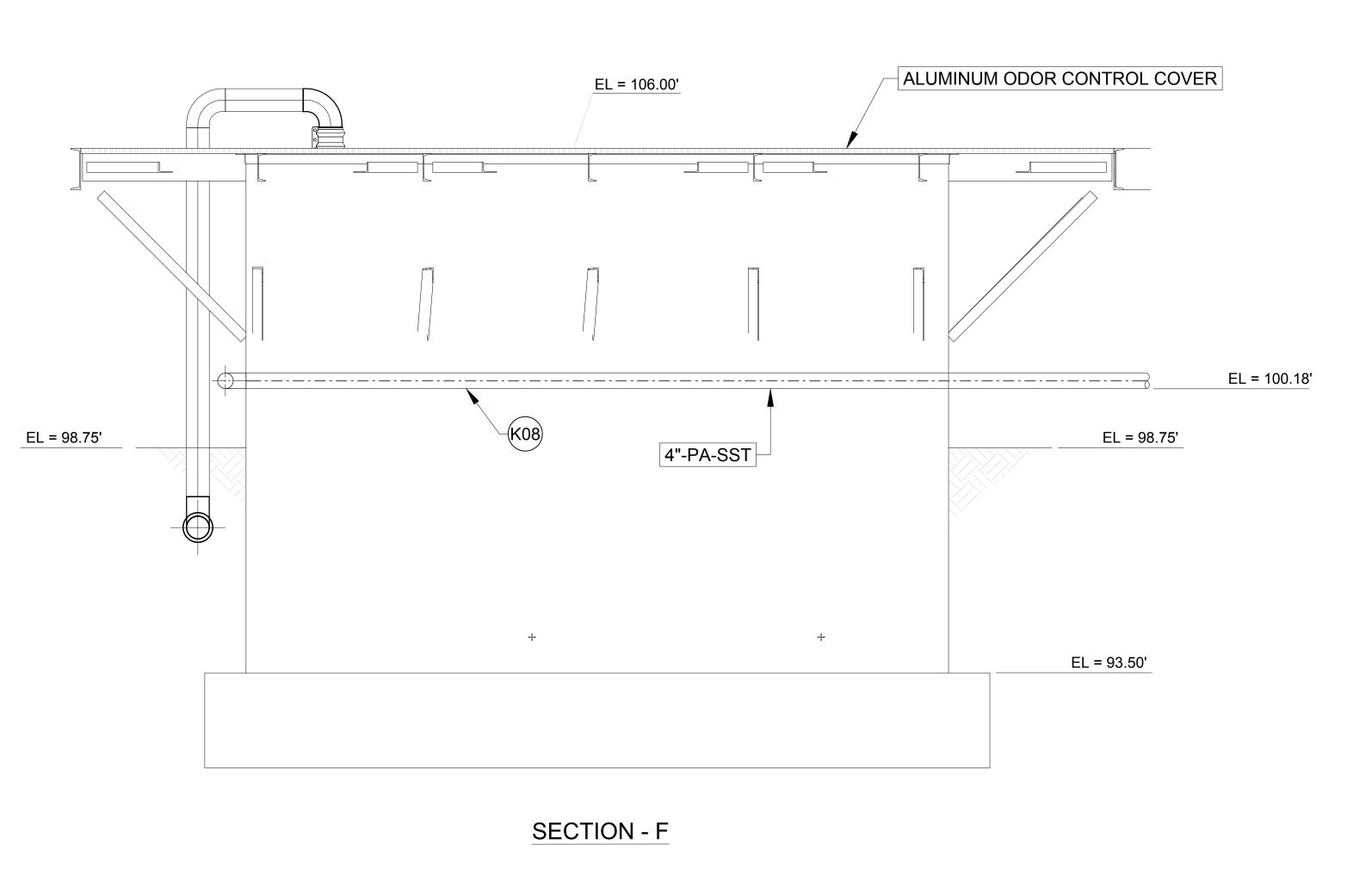
C21	1	1	4"	FLG MAG METER (BY-OTHERS)	LL = 9.84"	BID LINE # 50
C22	1	1	4"	FLG X PE PIPE - TN140 PRIMER	2'- 7 1/2"	BID LINE # 49
C23	6	6	4"	SET 4" ZP BOLT AND NUT (FOR FLG PLUG AND CHECK VALVE)		BID LINE # 60
C24	6	6	4"	PLATED BOLT & NUT KIT, A307 GRADE A, (8EA 5/8" X 3" BOLT WITH NUT)		BID LINE # 59
C25	12	12	4"	1/16" FULL FACE RED RUBBER GASKET, 150#		
C26	2	2	3"	PLATED BOLT & NUT KIT, A307 GRADE A, (8EA 5/8" X 3" BOLT WITH NUT)		
C27	2	2	3"	1/16" FULL FACE RED RUBBER GASKET, 150#		
C28	3	3	4"	4" DI THROUGH 8" CORE (WWLS-410-S 7 LINKS PER SET) - BY OTHERS		
C27	2	2	3"	BOLT WITH NUT) 1/16" FULL FACE RED RUBBER GASKET, 150# 4" DI THROUGH 8" CORE (WWLS-410-S 7 LINKS PER		

OWNER:-	ENGINEER:-	DISCLAIMER RJ Barnes and Associates has prepared these layout drawings and material						R. J. Barnes & Associates, 1442 S 500 E - STE 300, American Fork,
		lists in accordance with our interpretation of the project drawings and specifications that were provided. Approval of these drawings and material lists constitute acceptance of our interpretation of material requirements						
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			BILL OF MATERIALS		
			4" VENT LINE FROM DRAIN PUMP STATION (DWG #: M-100 & M-110)		
J01	1	4"	PE X FLG PIPE - TN140 PRIMER	1'- 4 1/2"	
J02	1	4"	PE X PE 304L SCH10S A778 PIPE, 2- 4" 90 DEGREE BEND, 1 -150# FF SO FLG	1'-6"	
J03	1	4"	1/8" FULL FACE GASKET, NEOPRENE, 150#		
J04	1	4"	SET 4" 304SS BOLT AND NUT		
	1- 1/2"	, 2" & 6" INF L	INE FROM EQ. TANK OUTLET CONNECT TO MBR TREAT (DWG #: M-100, M-102, M-106 & M-108)	MENT PLANT INLET	
TAG#	QTY	SIZE	DESCRIPTION	ACTUAL LENGTH	NOTES
E01	1	3" X 2"	FLG CONCENTRIC REDUCER - C110 / CL / TNEMEC SERIES TN140 PRIME	LL = 6.00"	
E02	1	2"	FLG X FLG PIPE - TN140 PRIMER	1'- 2 3/8"	
E03	1	2"	FLG 90 DEGREE BEND - C110 / CL / TN140 PRIMER	CC = 0'- 4 1/2" X 0'- 4 1/2"	

E04	1	2" X 1-1/2"	FLG CONCENTRIC REDUCER - C110 / CL / TNEMEC SERIES TN140 PRIME	LL = 5.50"	
		1-1/2"	SCH 80 IPS PVC PIPE W/SEEP RING, 90 DEGREE SOC	6'- 2 7/8"	
E05	1	4"	4" DIA WALL SLEEVE W/ LINK SEAL & SEEP RING CENTERED	1'-6"	
E06	1	1-1/2"	SCH 80 IPS PVC PIPE, 90 DEGREE SOC	12'- 1 5/8"	
E07	1	1-1/2"	SCH 80 IPS PVC SOC X FLG PIPE W/ PRESSURE GAUGE	6'- 1 1/2"	
E08	1	1-1/2"	SPEARS GRAY PVC TRUE UNION BALL CHECK VALVE 2000 INDUSTRIAL SOCKET OR FIPT EPDM 235PSI #4529-015	LL = 6.75"	BID LINE #
E09	1	1-1/2"	SCH 80 IPS FLG X PVC SOC PIPE	1'- 8 1/8"	
E10	1	1-1/2"	PVC GREY UTILITY BALL VALVE SOC X SOC EPDM 150PSI BLUE HANLDE #2622-015G SPEARS	LL = 4.75"	BID LINE #
E11	1	1-1/2"	SCH 80 IPS PVC SOC X FLG PIPE	0'- 11 5/8"	
E12	1	1-1/2"	MAG METER	LL = 7.87"	BID LINE #

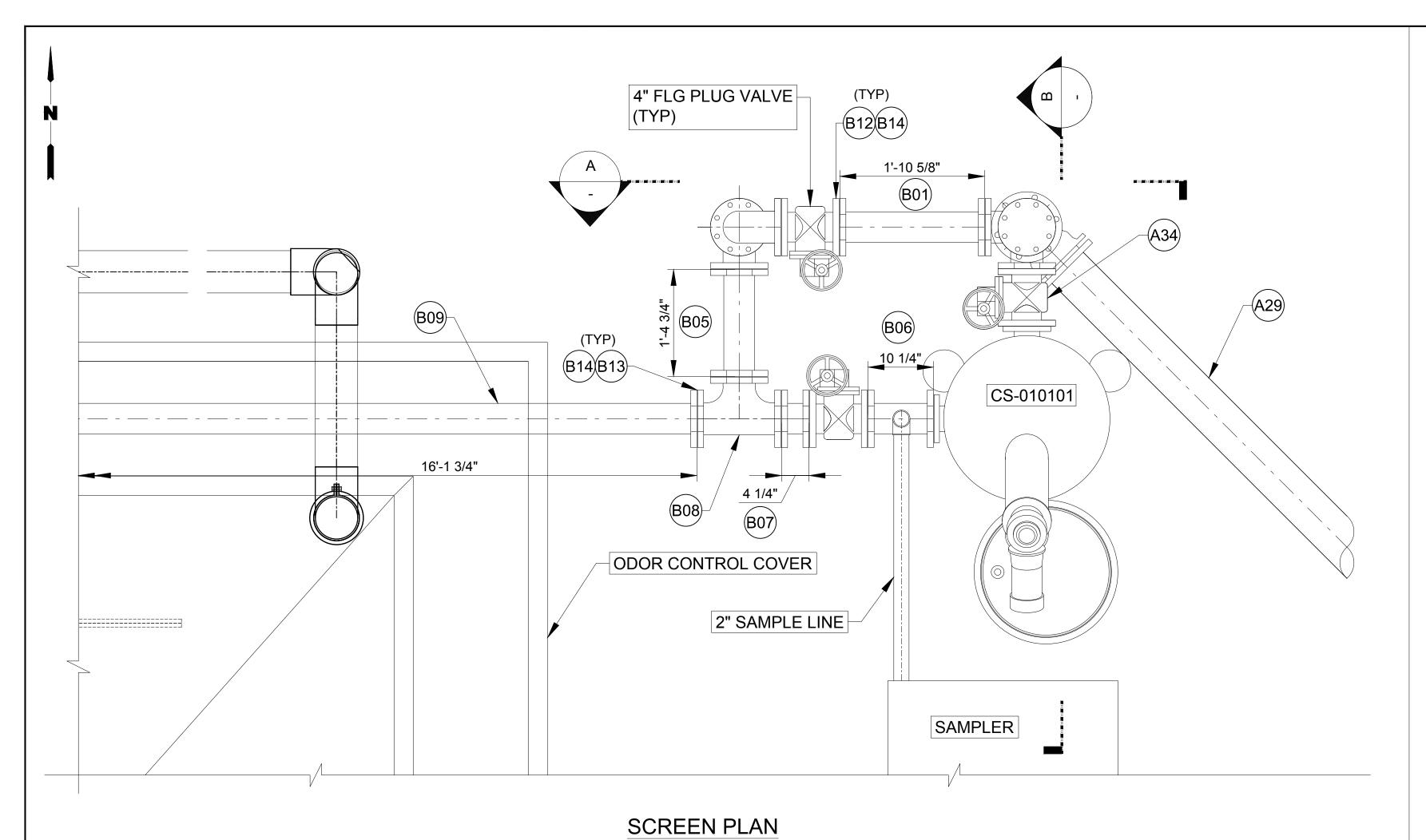
SPECIAL NOTES:

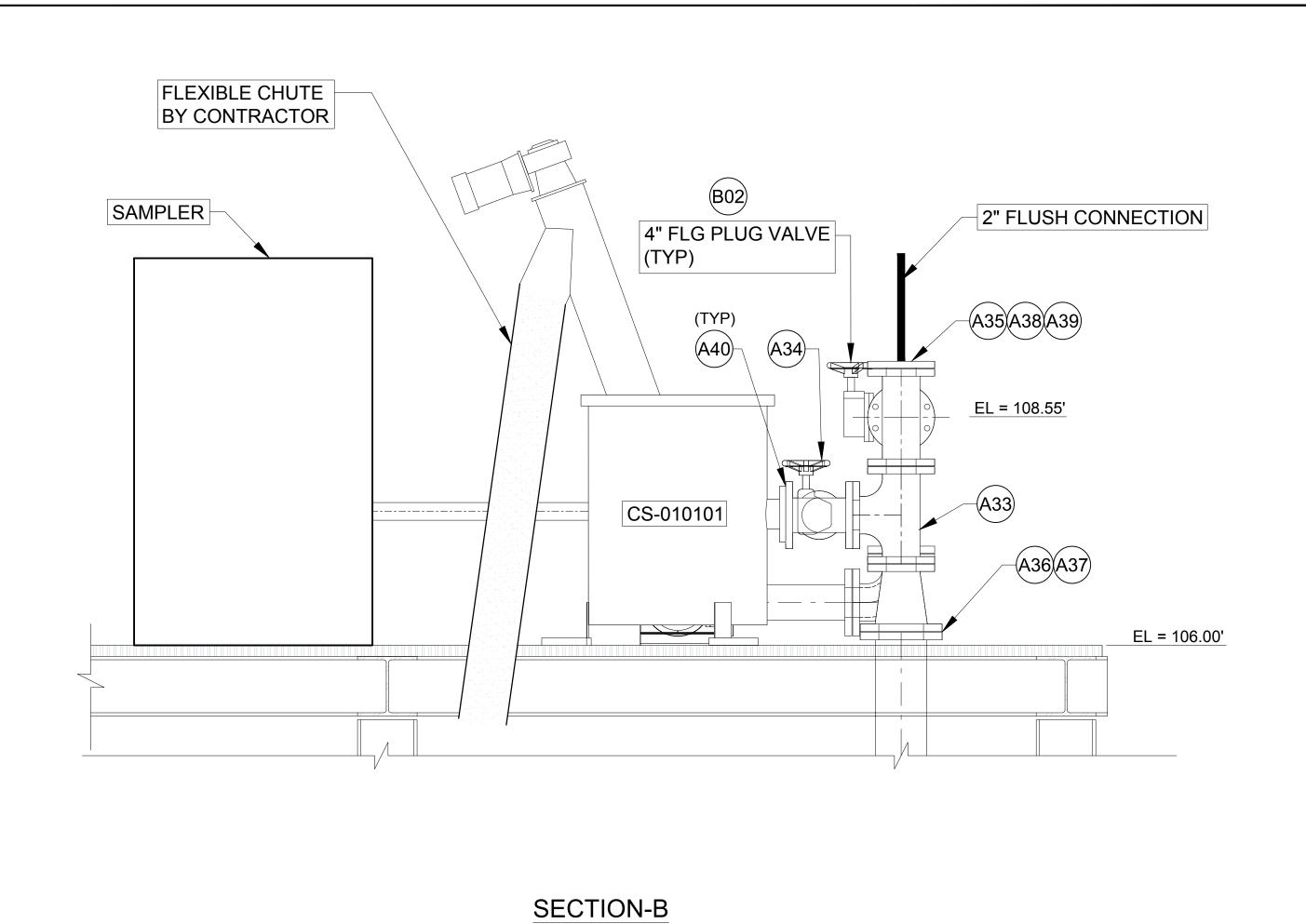
1. CXX - REFER BOM ON DWG.# M-104

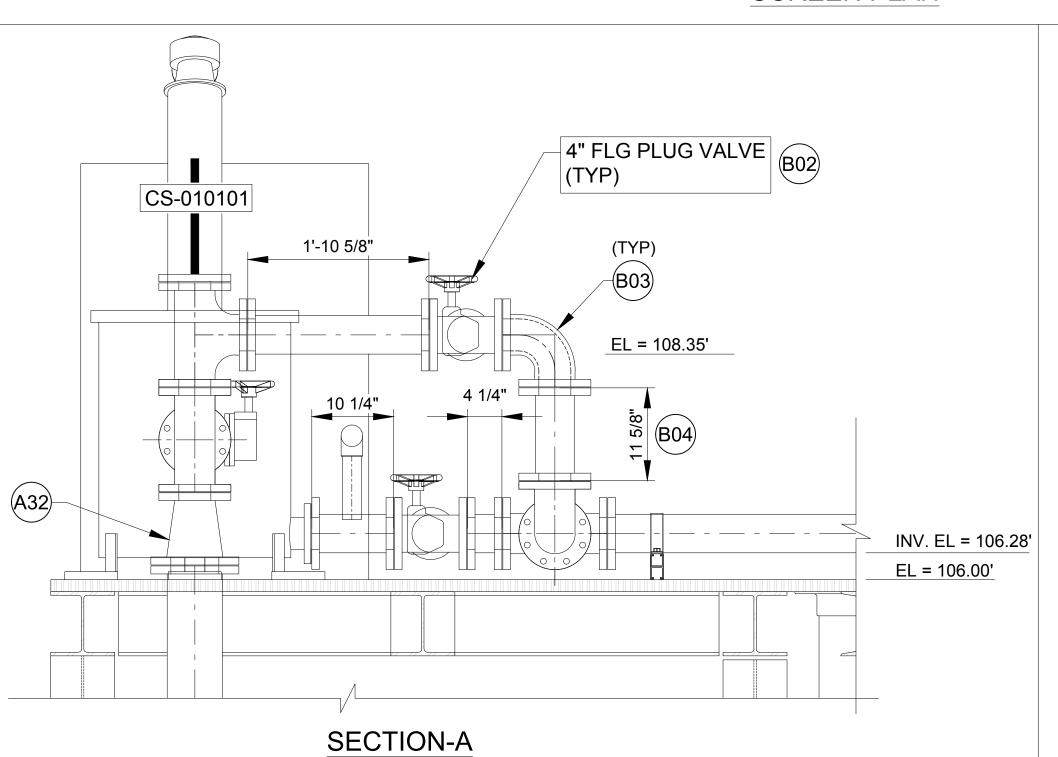
2. FXX - REFER BOM ON DWG.# M-102 & 110

3. KXX - REFER BOM ON DWG.# M-109

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			BILL OF MATERIALS		
	4" (& 6" DIP LIN	E FROM SCREEN BUILDING OUTLET CONNECT TO CHAM (DWG #: M-100, M-102, M-103 & M-107)	BER 1 & 2 INLET	
TAG#	QTY	SIZE DESCRIPTION		ACTUAL LENGTH	NOTES
B01	1	4"	FLG X FLG PIPE - TN140 PRIMER	1'- 10 5/8"	BID LINE # 10
B02	4	4"	FLG PLUG VALVE W/ HANDWHEEL (NICKLE SEATS INLIEU OF SST, STEM IS DI INLIEU OF SS)	LL = 9.00"	BID LINE # 8
B03	5	4"	FLG 90 DEGREE BEND - C110 / CL / TN140 PRIMER	CC = 0'-8" X 0'-8"	BID LINE #
B04	1	4"	FLG X FLG PIPE - TN140 PRIMER	0'- 11 5/8"	BID LINE # 14
B05	1	4"	FLG X FLG PIPE - TN140 PRIMER	1'- 4 3/4"	BID LINE # 12
B06	1	4"	4.80 X 2" IP 202S SADDLE WITH STAINLESS STRAPS 4.50 - 4.80 ROMAC	0'- 10 1/4"	BID LINE # 15
B07	1	4"	FLG X FLG PIPE - TN140 PRIMER	0'- 4 1/4"	BID LINE # 13
B08	2	4" X 4"	FLG TEE - C110 / CL / TN140 PRIMER	CC = 0'-6.50" X 0'-6.50"	BID LINE # 7
B09	1	4"	FLG X FLG PIPE - TN140 PRIMER	16'- 1 3/4"	

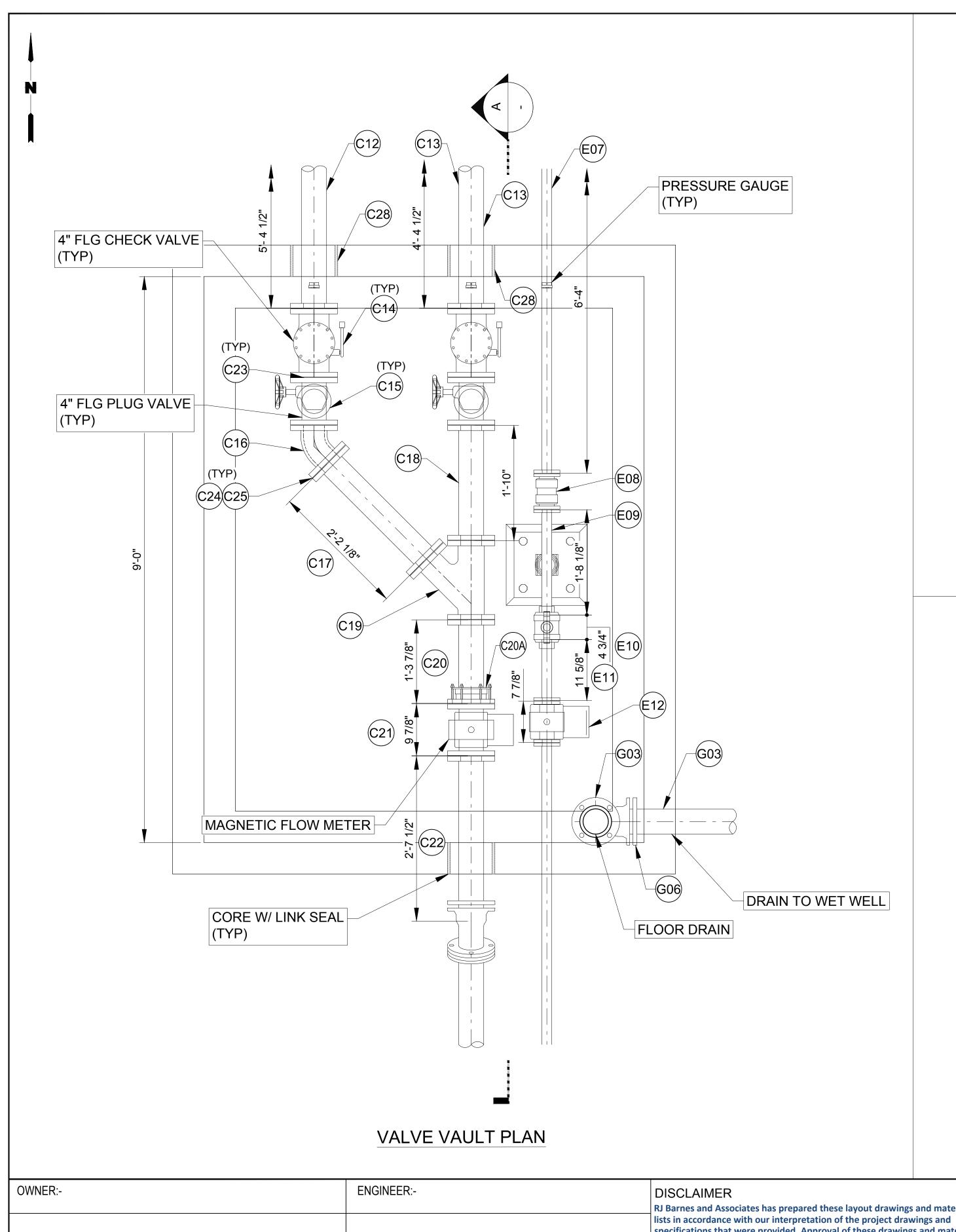
1	4"	FLG X FLG PIPE - TN140 PRIMER	0'- 6 3/8"	
2	4"	FLG X PE PIPE - TN140 PRIMER	10'- 4 3/8"	
2	4"	FLG 90 DEGREE L.R BEND - C110 / CL / TN140 PRIMER	CC = 0'-9" X	
8	4"	SET 4" ZP BOLT AND NUT FOR FLG PLUG VALVE		BID LINE # 20
13	4"	PLATED BOLT & NUT KIT, A307 GRADE A, (8EA 5/8" X 3" BOLT WITH NUT)		BID LINE # 19
21	4"	1/16" FULL FACE RED RUBBER GASKET, 150#		BID LINE # 21
	2 2 8	2 4" 2 4" 8 4" 13 4"	2 4" FLG X PE PIPE - TN140 PRIMER 2 4" FLG 90 DEGREE L.R BEND - C110 / CL / TN140 PRIMER 8 4" SET 4" ZP BOLT AND NUT FOR FLG PLUG VALVE 13 4" PLATED BOLT & NUT KIT, A307 GRADE A, (8EA 5/8" X 3" BOLT WITH NUT)	2 4" FLG X PE PIPE - TN140 PRIMER 10'- 4 3/8" 2 4" FLG 90 DEGREE L.R BEND - C110 / CL / TN140 PRIMER CC = 0'-9" X 0'-9" 8 4" SET 4" ZP BOLT AND NUT FOR FLG PLUG VALVE 13 4" PLATED BOLT & NUT KIT, A307 GRADE A, (8EA 5/8" X 3" BOLT WITH NUT)

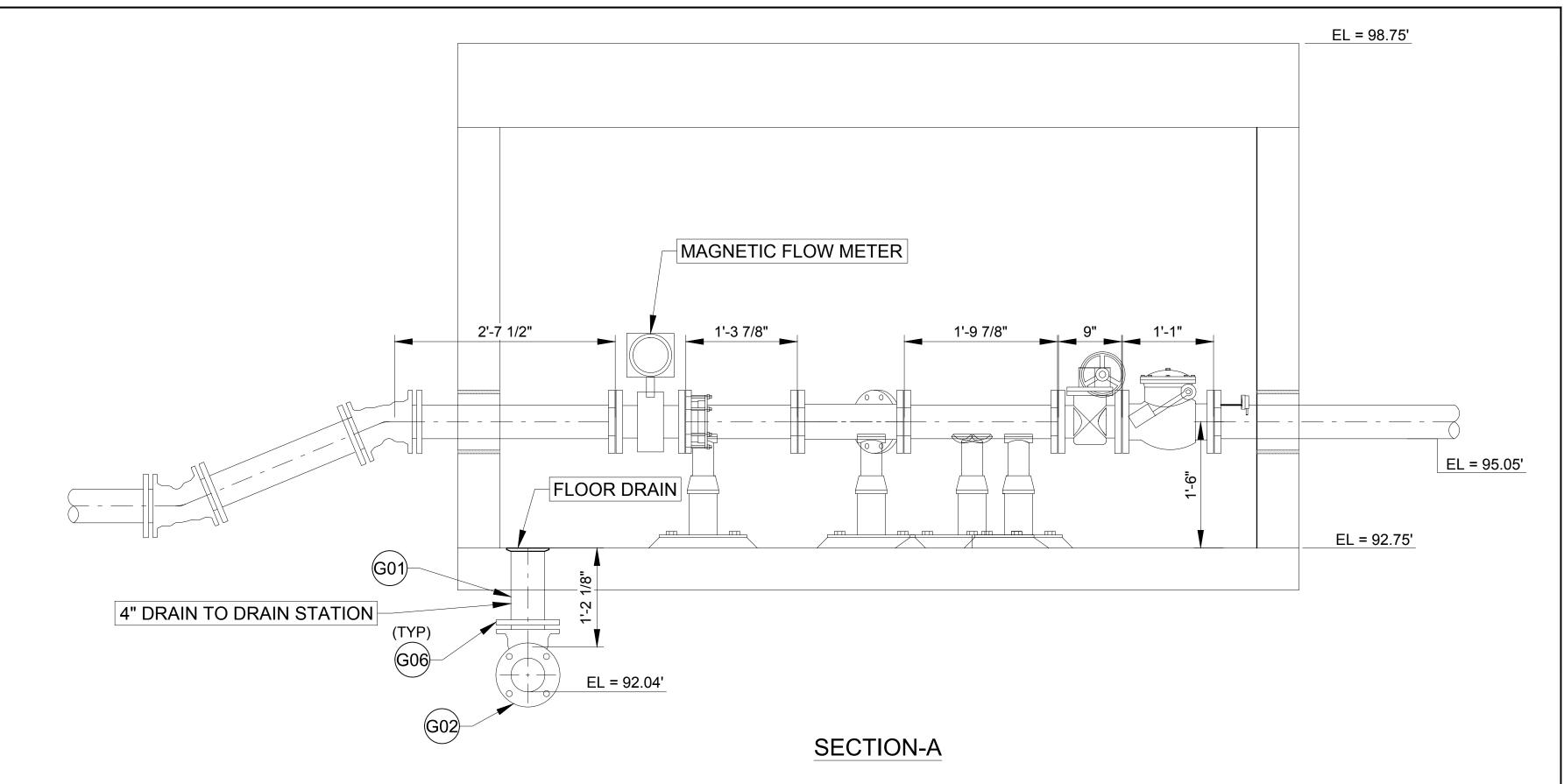
SPECIAL NOTE:

1. AXX - REFER BOM ON DWG.# M-101 & 103

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			BILL OF MATERIALS			
4" DIP LINE FROM EQ TRANSFER VALVE VAULT CONNECT TO DRAIN PUMP STATION INLET (DWG #: M-100, M-108 & M-109)						
G01	1	4"	PE X PE PIPE CL 52 / CL / AC	1'-2 1/8"		
G02	1	4"	MJ 90 DEGREE BEND - C153 / CL / AC	CC = 0'-4" X 0'-4"	BID LINE #	
G03	2	4"	PE X TYTON CL52 CL / AC	18' - 2 7/8"	BID LINE #	
G04	1	4"	PE X PE PIPE CL 52 / CL / AC	11'-5 1/4"		
G05	1	4"	MJ LONG SOLID SLEEVE - C153 / CL / AC		BID LINE #	
G06	4	4"	COMPACT BODY MJ ACCESSORIES KIT COMPLETE WITH GLAND, GASKET AND (4) 3/4" X 3-1/2" T-BOLTS		BID LINE #	

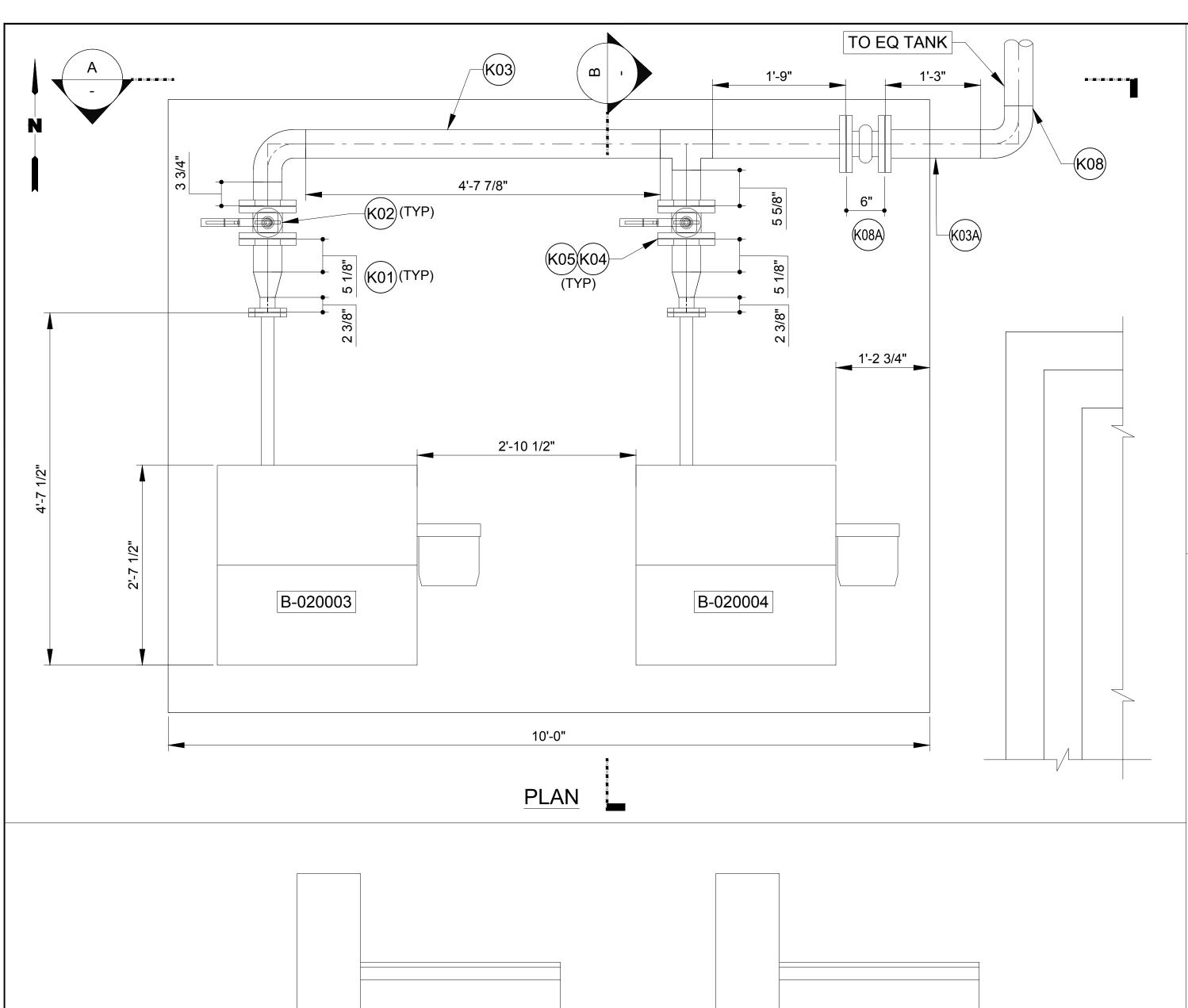
SPECIAL NOTES:

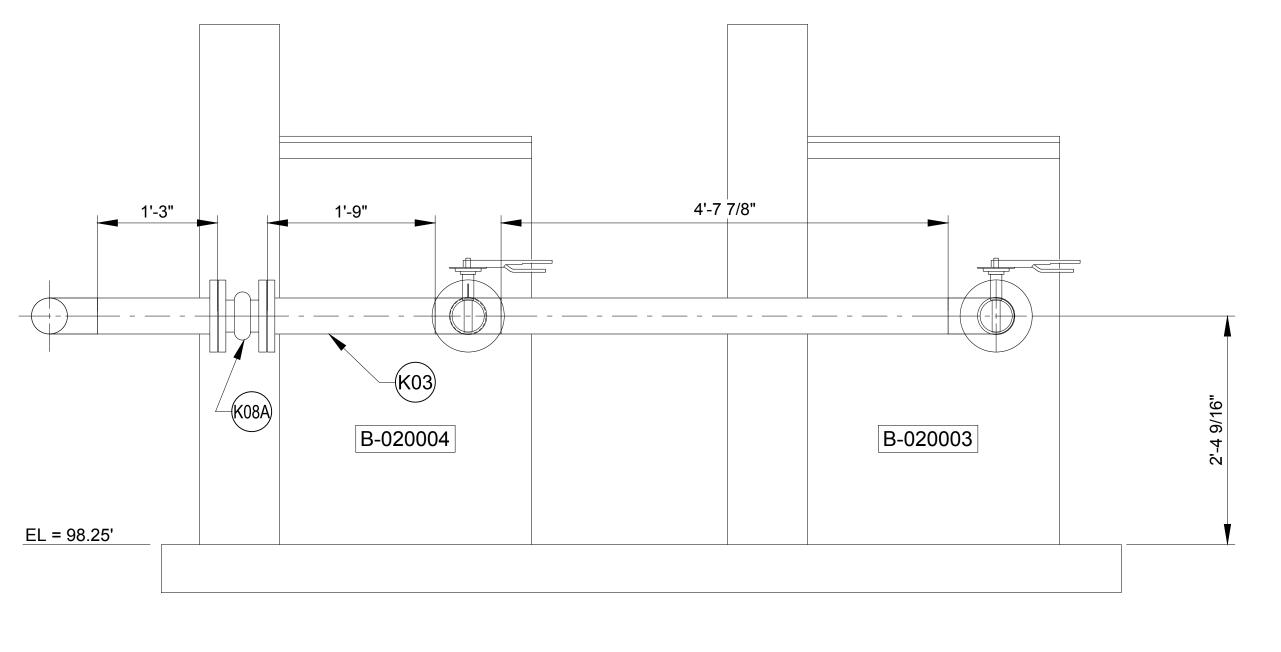
1. CXX - REFER BOM ON DWG.# M-104.

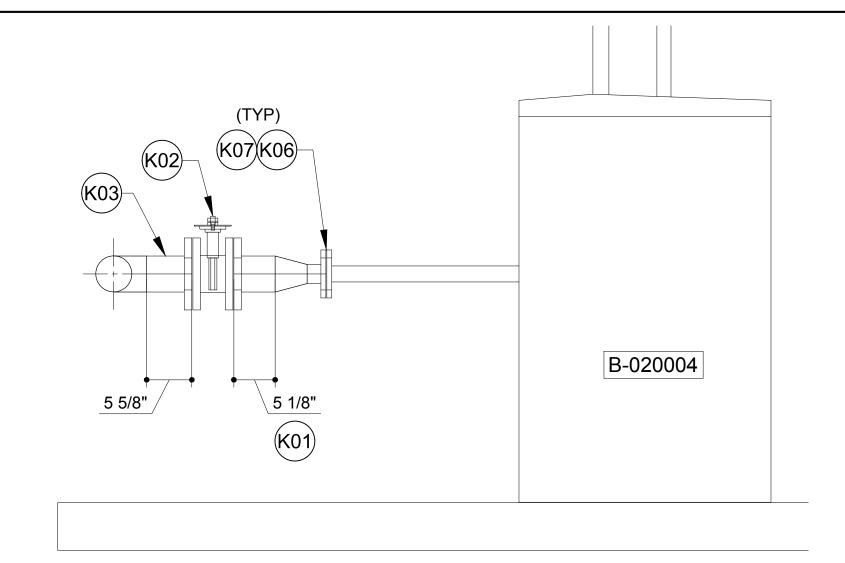
2. EXX - REFER BOM ON DWG.# M-106.

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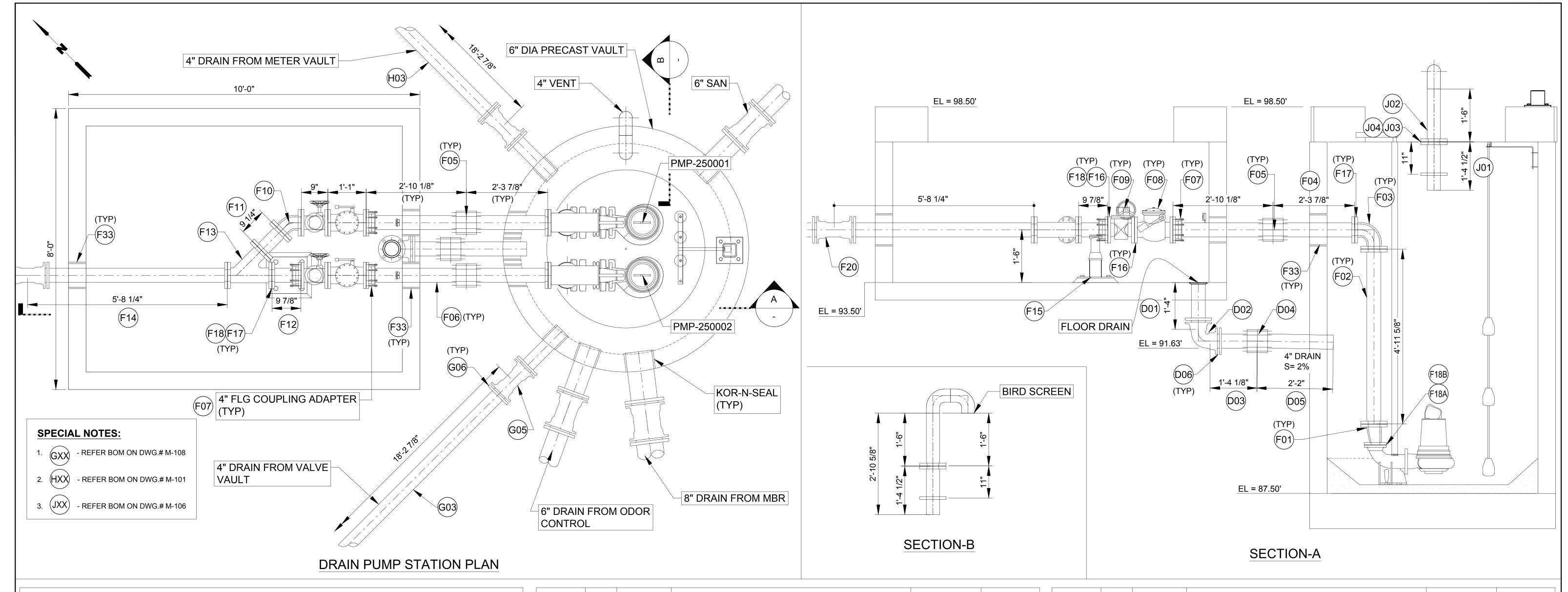


SECTION-B

			BILL OF MATERIALS		
		2" & 4"	SST LINE FROM BLOWER DISCHARGE CONNECT TO EQ. TAI (DWG #: M-100, M-102, M-103 & M-109)	NK INLET	
TAG#	QTY	SIZE	DESCRIPTION	ACTUAL LENGTH	NOTES
K01	2	2" / 4"	304L SCH10S A778 CONCENTRIC REDUCER, 1- 4" 150# FF SO FLG, 1 -2" 150# FF SO FLG, 0'- 5 1/8" 4" PIPE, 0'- 2 3/8" 2" PIPE		BID LINE #8
K02	2	4"	FLG BUTTERFLY VALVE W/ LEVER. AWWA C504. CLASS 250B, 125LB FLANGE.	LL = 5.00"	BID LINE #8
K03	1	4"	304L SCH10S ASTM A778 AS WELDED GRADE MANIFOLD. 1 -90 DEG ELL, 1 -4" TEE, 3 -150# FF SO FLG.	6'- 8 5/8"	
K03A	1	4"	304L SCH10S ASTM A778 AS WELDED GRADE MANIFOLD. 1 -90 DEG ELL, 1 -150# FF SO FLG.	1'- 3"	
K04	4	4"	SET 4" 304SS A320/320M GRADE B8M BOLTS AND A194 GRADE 8M NUTS (FOR FLG AWWA C504 BFV)		BID LINE #8
K04A	4	4"	SET 4" 304SS A320/320M GRADE B8M BOLTS AND A194 GRADE 8M NUTS		
K05	8	4"	1/8" FULL FACE GASKET, EPDM, 150#		
K06	2	2"	SET 2" 304SS A320/320M GRD B8M BOLTS & A194 GRD 8M HEX NUTS		BID LINE #8
K07	2	2"	1/8" FF EPDM FLANGE GASKET		BID LINE #8
K08	1	4"	PE X FLG 304L SCH10S A778 PIPE, 1 -150# FF SO FLG.	27'- 6 1/8"	
K08A	2	4"	FLG EXPANSION JOINT	LL = 6.00"	
K08B	1	4"	FLG X PE 304L SCH10S A778 PIPE, 1 -150# FF SO FLG.	1'- 6"	
K09	1	4"	304L SCH10S ASTM A778 AS WELDED GRADE MANIFOLD. 2 -90 DEG ELL, 1 -4" TEE.	20'- 6 1/4"	
K10	1	4"	304L SCH10S ASTM A778 AS WELDED GRADE MANIFOLD. 2 -90 DEG ELL, 2 -150# FF SO FLG	6'- 11 3/4"	
K11	1	4"	304L SCH10S ASTM A778 AS WELDED GRADE MANIFOLD. 2 -90 DEG ELL, 2 -150# FF SO FLG	6'- 4 1/4"	
K12	2	4"	FLG BUTTERFLY VALVE W/ LEVER. AWWA C504. CLASS 250B, 125LB FLANGE.	LL = 5.00"	
K13	4	4"	SET 4" 304SS BOLT AND NUT FOR FLG BUTTERFLY VALVE		BID LINE # 2
K14	4	4"	1/8" FULL FACE GASKET, NEOPRENE, 150#		BID LINE # 2

SECTION-A					
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			BILL OF MATERIALS		
		4" DIP LINE	FROM EQ TRANSFER VALVE VAULT TO DRAIN PUMP STA (DWG #: M-100, M-108 & M-110)	TION INLET	
TAG#	QTY	SIZE	DESCRIPTION	ACTUAL LENGTH	NOTES
D01	1	4"	PE X PE PIPE CL 52 / CL / AC	1'- 4"	BID LINE # 108
D02	1	4"	MJ 90 DEGREE BEND - C153 / CL / AC	CC = 0'-4" X 0'-4"	BID LINE # 109
D03	1	4"	PE X PE PIPE CL 52 / CL / AC	1'- 4 1/8"	BID LINE # 108
D04	1	4"	FLEXIBLE COUPLING		
D05	1	4"	PE X PE PIPE CL 52 / CL / AC	2'- 2"	BID LINE # 108
D06	4	4"	COMPACT BODY MJ ACCESSORIES KIT COMPLETE WITH GLAND, GASKET AND (4) 3/4" X 3-1/2" T-BOLTS		BID LINE # 111
		4	DIP LINE FROM DRAIN PUMP STATION TO EQ TANK INLE (DWG #: M-100 & M-110)	T	

F01	2	4" X 3"	FLG ECCENTRIC REDUCER - C110 / CL / TN140 PRIMER	LL = 7.00"	
F02	2	4"	FLG X FLG PIPE - TN140 PRIMER	4'- 11 5/8"	BID LINE # 93
F03	2	4"	FLG 90 DEGREE BEND - C110 / CL / TN140 PRIMER	CC = 0'-6 1/2" X 0'-6 1/2"	BID LINE # 94
F04	2	4"	FLG X PE PIPE - TN140 PRIMER	2'- 3 7/8"	BID LINE # 95
F05	2	4"	FLEXIBLE COUPLING		
F06	2	4"	PE X PE PIPE W/ 1/2" IPT TAP FOR PRESSURE GAUGE TN140 PRIMER	2'- 10 1/8"	BID LINE # 97 & 98
F07	3	4"	FCA501 FLANGE COUPLING ADAPTER SHOPCOAT STD B&N SBR GASKET 4.81 ROMAC		BID LINE # 99
F08	2	4"	FLG CHECK VALVE W/ LEVER AND WEIGHT	LL = 13.00"	BID LINE # 100
F09	2	4"	FLG PLUG VALVE W/ HANDWHEEL	LL = 9.00"	BID LINE # 101
F10	1	4"	FLG 45 DEGREE BEND - C110 / CL / TN140 PRIMER	CC = 0'-4" X 0'-4"	BID LINE # 102
F11	1	4"	FLG X FLG PIPE - TN140 PRIMER	0'- 9 1/4"	BID LINE # 103

F12	1	4"	FLG X PE PIPE - TN140 PRIMER	0'- 9 7/8"	
F13	1	4"	FLG WYE - C110 / CL / TN140 PRIMER	CC = 1'-0" X 0'-3"	BID LINE # 104
F14	1	4"	FLG X PE PIPE TN140 PRIMER	5'- 8 1/4"	BID LINE # 105
F15	1	4"	ADJ FLANGE SUPPORT ZINC PLATED #S89 STANDON		BID LINE # 106
F16	6	4"	A325 BOLT AND NUT (FOR FLG PLUG AND CHECK VALVE)		BID LINE # 120 & 121
F17	10	4"	SET 4" 316SS F593 BOLT, F594 NUT MARKING F593F & 594F.		BID LINE # 118
F18	16	4"	1/16" FULL FACE RED RUBBER GASKET, 150#		BID LINE # 119
F18A	2	3"	SET 3" 316SS F593 BOLT, F594 NUT MARKING F593F & 594F.		
F18B	2	3"	1/16" FULL FACE RED RUBBER GASKET, 150#		
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OWNER:-	ENGINEER:-	DISCLAIMER RJ Barnes and Associates has prepared these layout drawings and material lists in accordance with our interpretation of the project drawings and specifications that were provided. Approval of these drawings and material		
		lists constitute acceptance of our interpretation of material requirements for the subject job. Please check the drawings and material lists carefully to insure they are correct for your project.	B DRAWING REVISED AS PER COMMENTS	ST RJB 08/24/2024
		If corrections need to be made, please mark one set of the drawings in a contrasting color and return them to this office with your comments. No material shown in these drawings should be released for manufacture	DRAWING REVISED AS PER COMMENTS A DRAWING REVISED AS PER COMMENTS	ST RJB 06/24/2024 ST RJB 06/24/2024
		without written approval from the end customer.	REV PARTICULARS	BY APP'D DATE