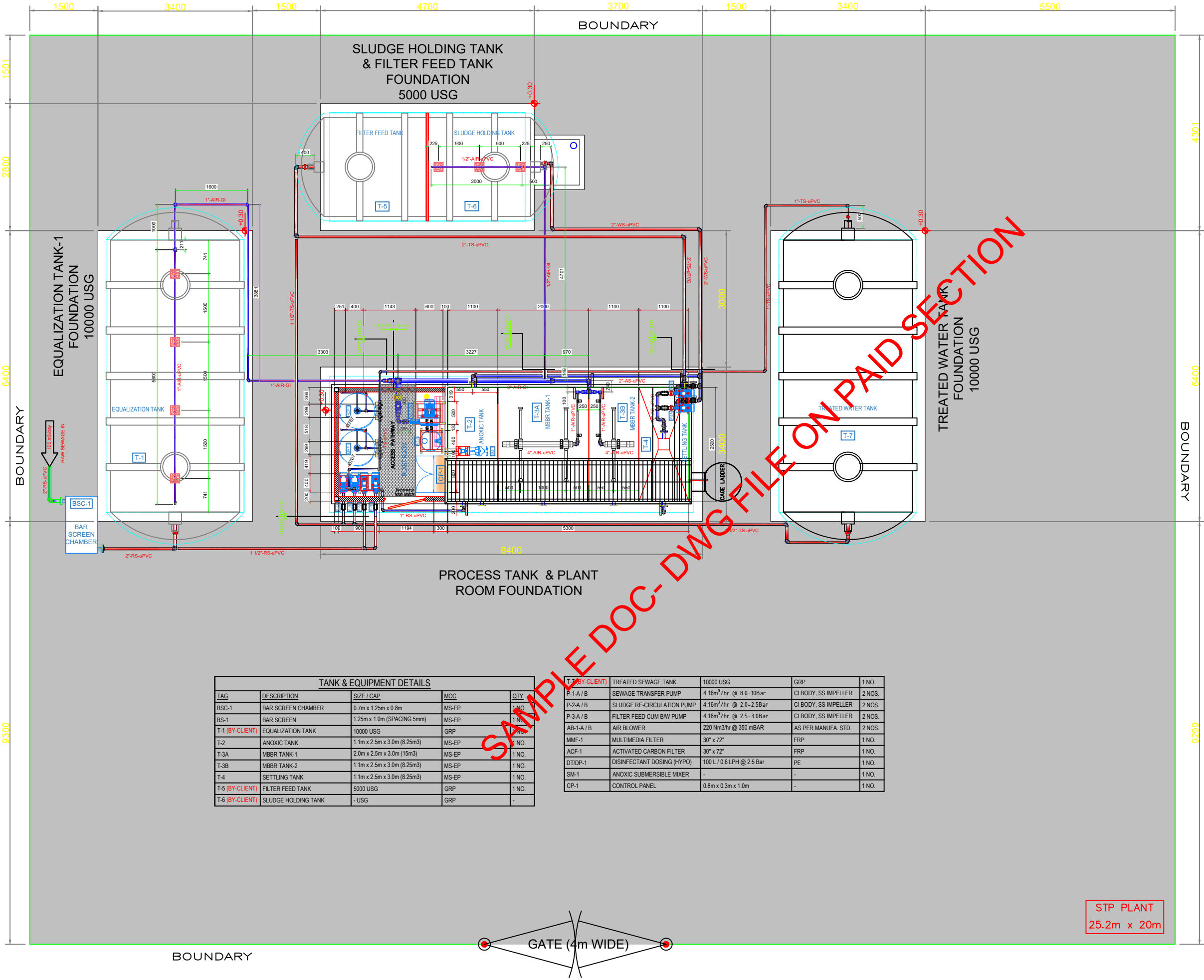


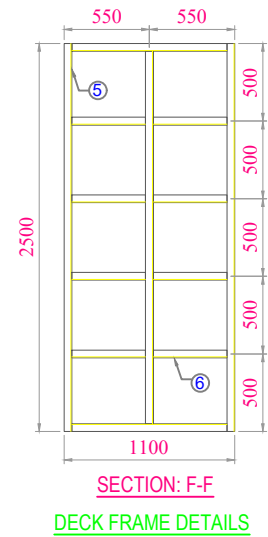
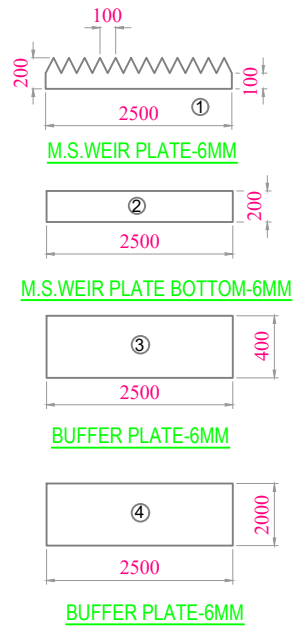


TANK & EQUIPMENT DETAILS				
TAG	DESCRIPTION	SIZE / CAP	MOC	QTY
BSC-1	BAR SCREEN CHAMBER	0.7m x 1.25m x 0.8m	MS-EP	1 NO.
BS-1	BAR SCREEN	1.25m x 1.0m (SPACING 5mm)	MS-EP	1 NO.
T-1 (BY-CLIENT)	EQUALIZATION TANK	10000 USG	GRP	1 NO.
T-2	ANOXIC TANK	1.1m x 2.5m x 3.0m (8.25m ³)	MS-EP	1 NO.
T-3A	MBBR TANK-1	2.0m x 2.5m x 3.0m (15m ³)	MS-EP	1 NO.
T-3B	MBBR TANK-2	1.1m x 2.5m x 3.0m (8.25m ³)	MS-EP	1 NO.
T-4	SETTLING TANK	1.1m x 2.5m x 3.0m (8.25m ³)	MS-EP	1 NO.
T-5 (BY-CLIENT)	FILTER FEED TANK	5000 USG	GRP	1 NO.
T-6 (BY-CLIENT)	SLUDGE HOLDING TANK	- USG	GRP	-

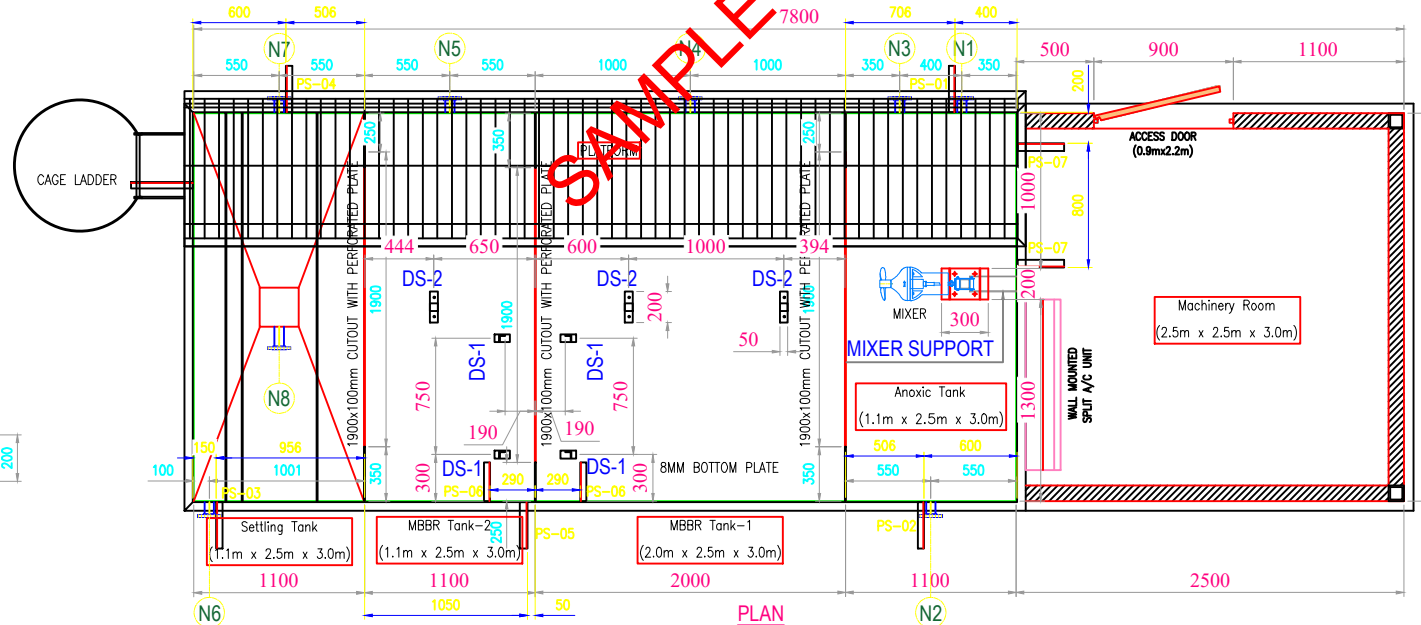
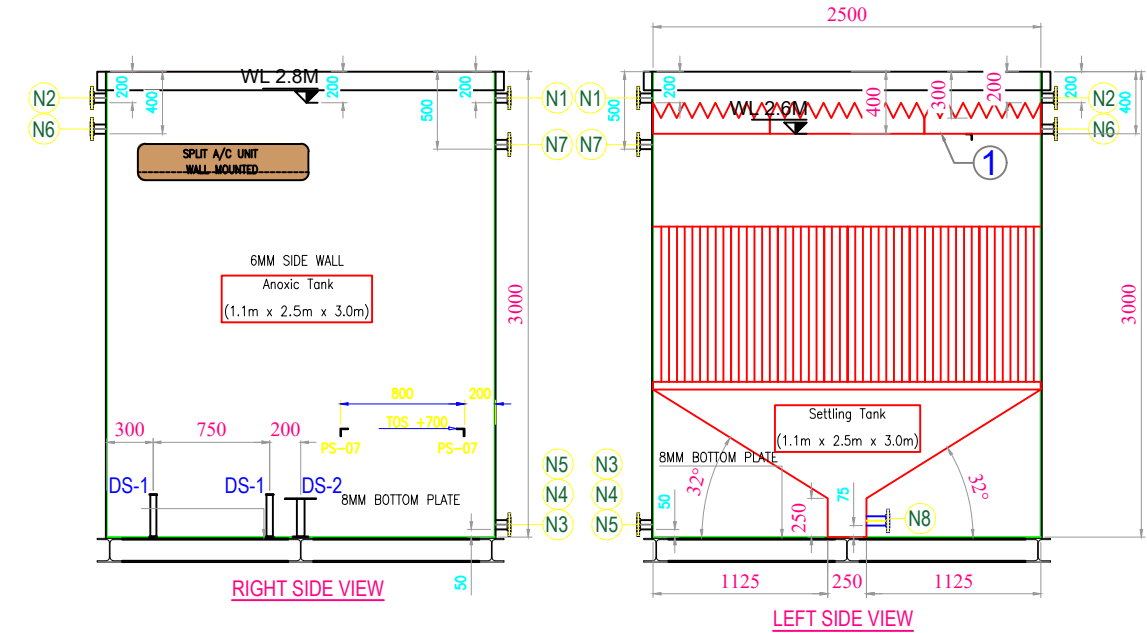
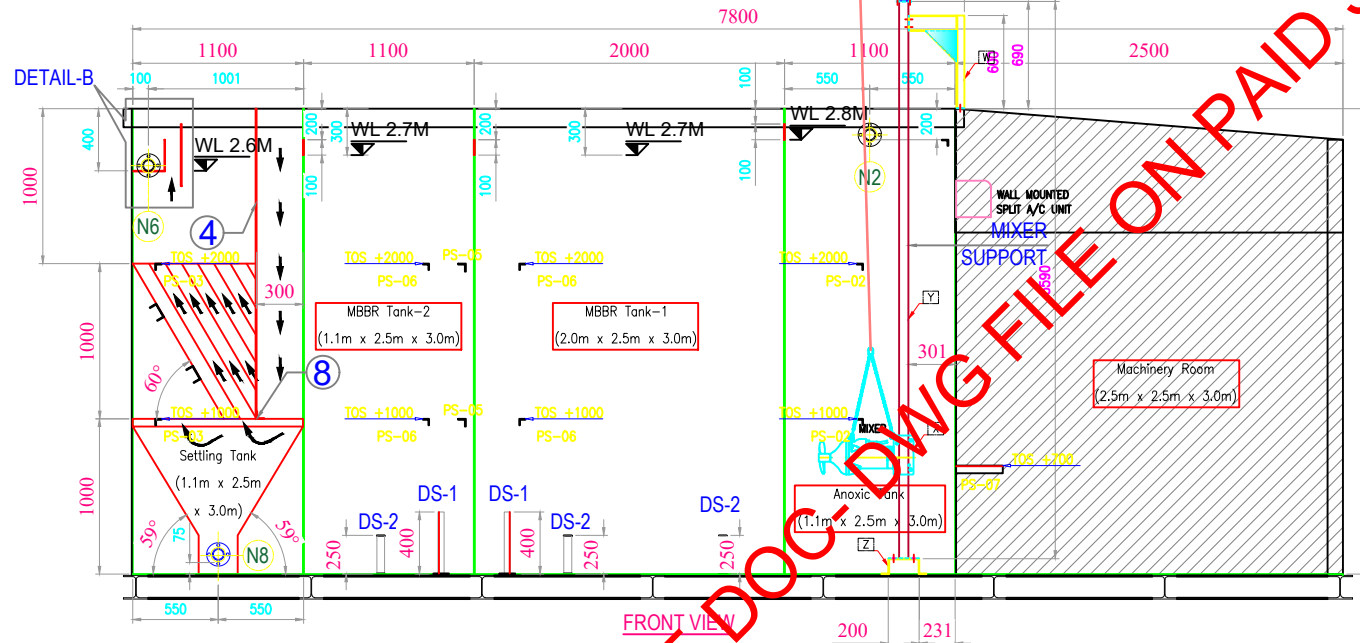
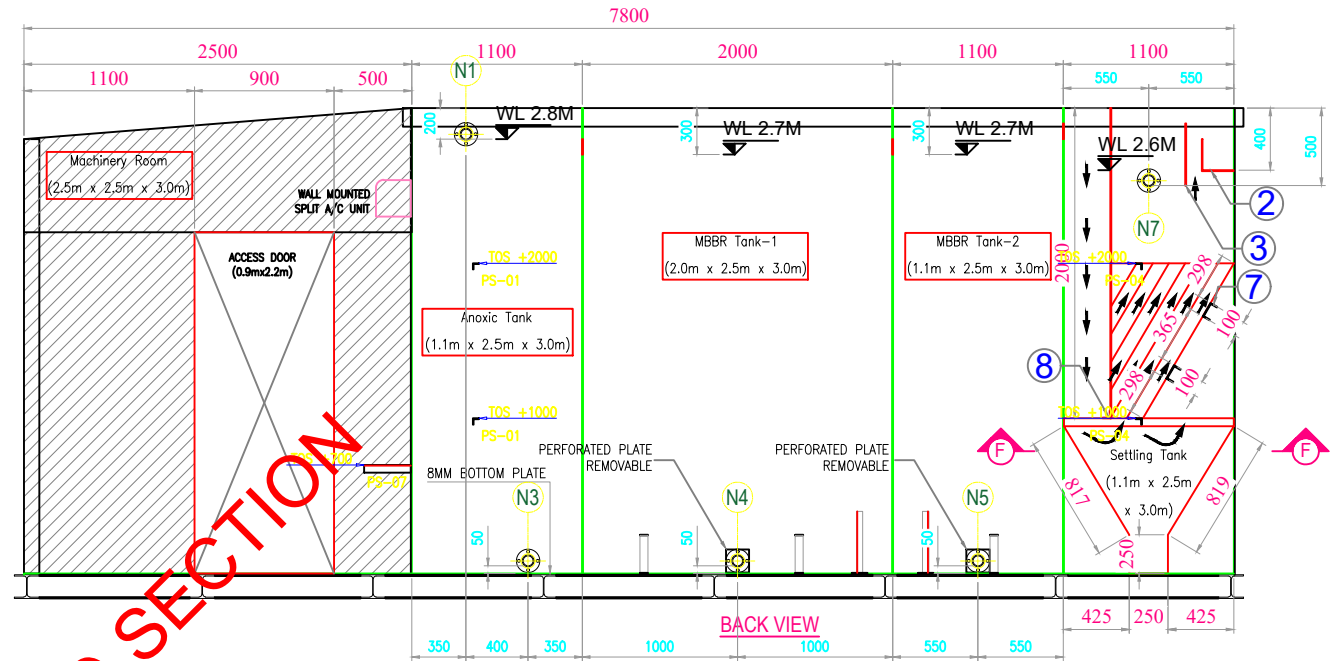
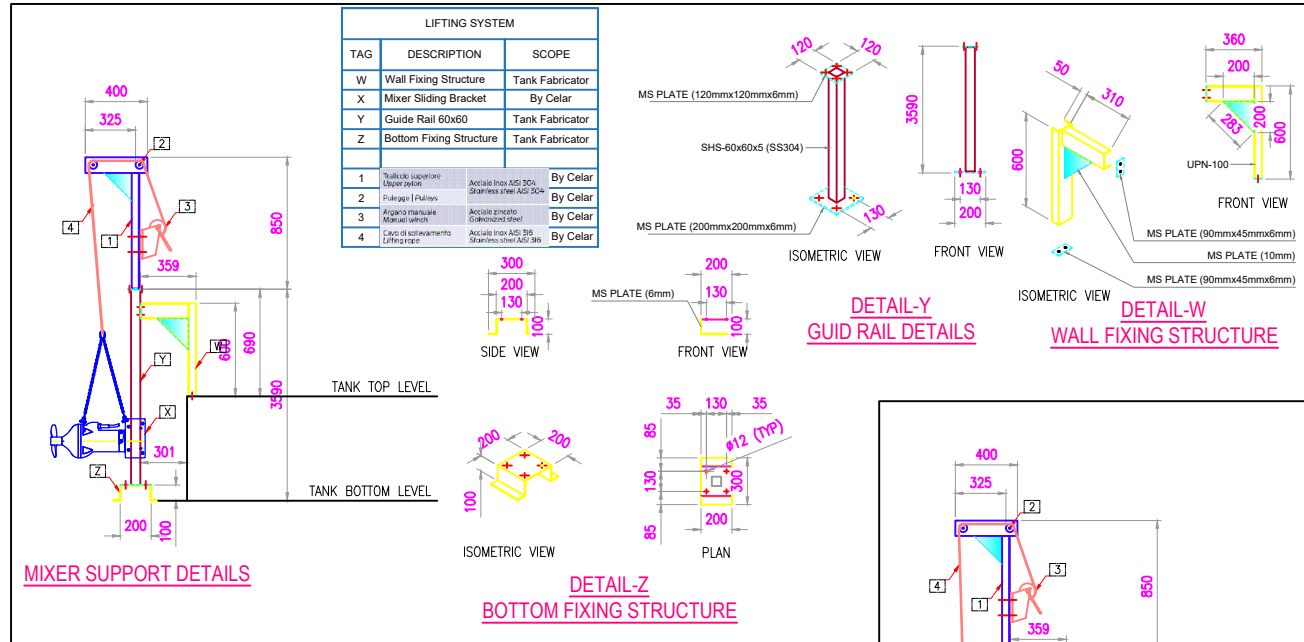
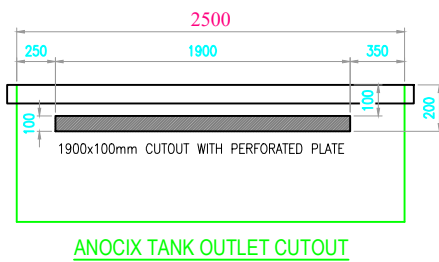
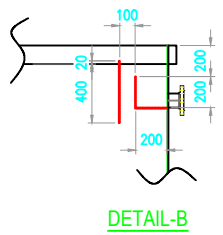
T-7 (BY-CLIENT)	TREATED SEWAGE TANK	10000 USG	GRP	1 NO.
P-1-A / B	SEWAGE TRANSFER PUMP	4.16m ³ /hr @ 8.0-10Bar	CI BODY, SS IMPELLER	2 NOS.
P-2-A / B	SLUDGE RE-CIRCULATION PUMP	4.16m ³ /hr @ 2.0-2.5Bar	CI BODY, SS IMPELLER	2 NOS.
P-3-A / B	FILTER FEED CUM B/W PUMP	4.16m ³ /hr @ 2.5-3.0Bar	CI BODY, SS IMPELLER	2 NOS.
AB-1-A / B	AIR BLOWER	220 Nm ³ /hr @ 350 mBar	AS PER MANUFA. STD.	2 NOS.
MMF-1	MULTIMEDIA FILTER	30" x 72"	FRP	1 NO.
ACF-1	ACTIVATED CARBON FILTER	30" x 72"	FRP	1 NO.
DT/DP-1	DISINFECTANT DOSING (HYPO)	100 L / 0.6 LPH @ 2.5 Bar	PE	1 NO.
SM-1	ANOXIC SUBMERSIBLE MIXER	-	-	1 NO.
CP-1	CONTROL PANEL	0.8m x 0.3m x 1.0m	-	1 NO.



STP PLANT
25.2m x 20m



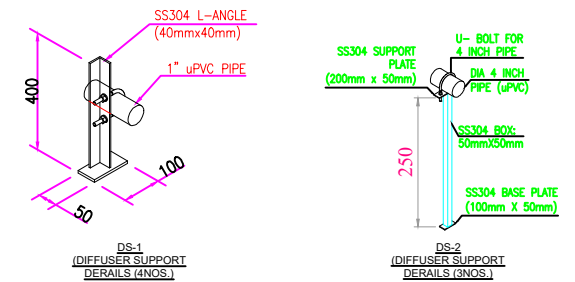
(SHOULD BE PROVIDE SUPPORT FOR DECK
FRAME ON INSIDE OF THE TANK)

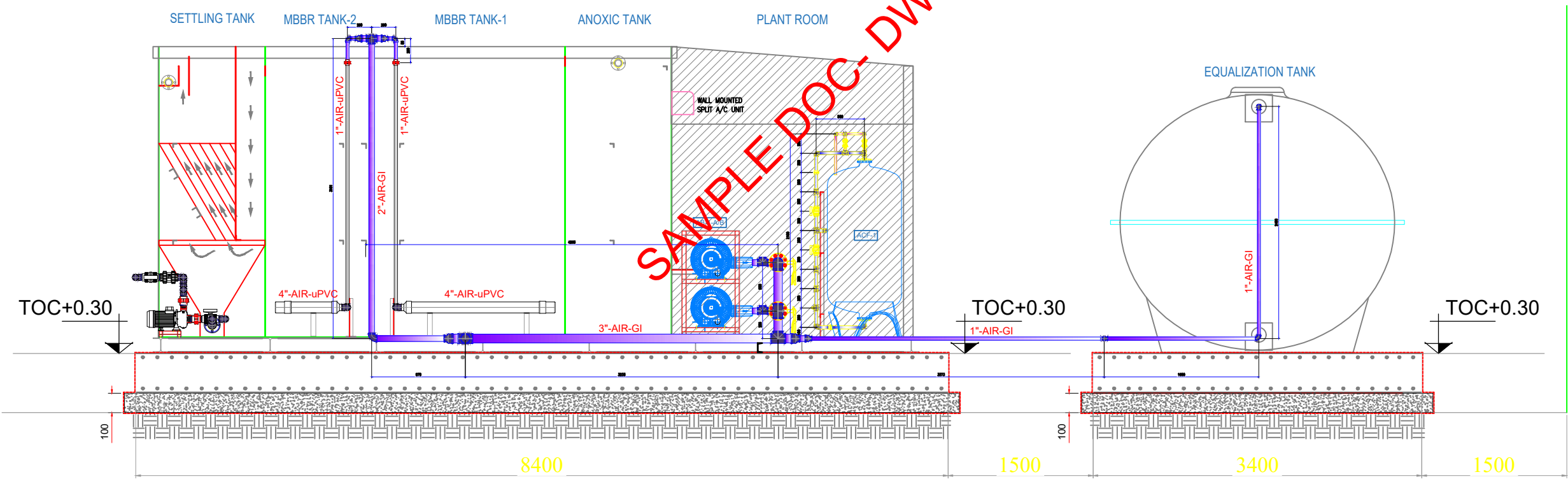
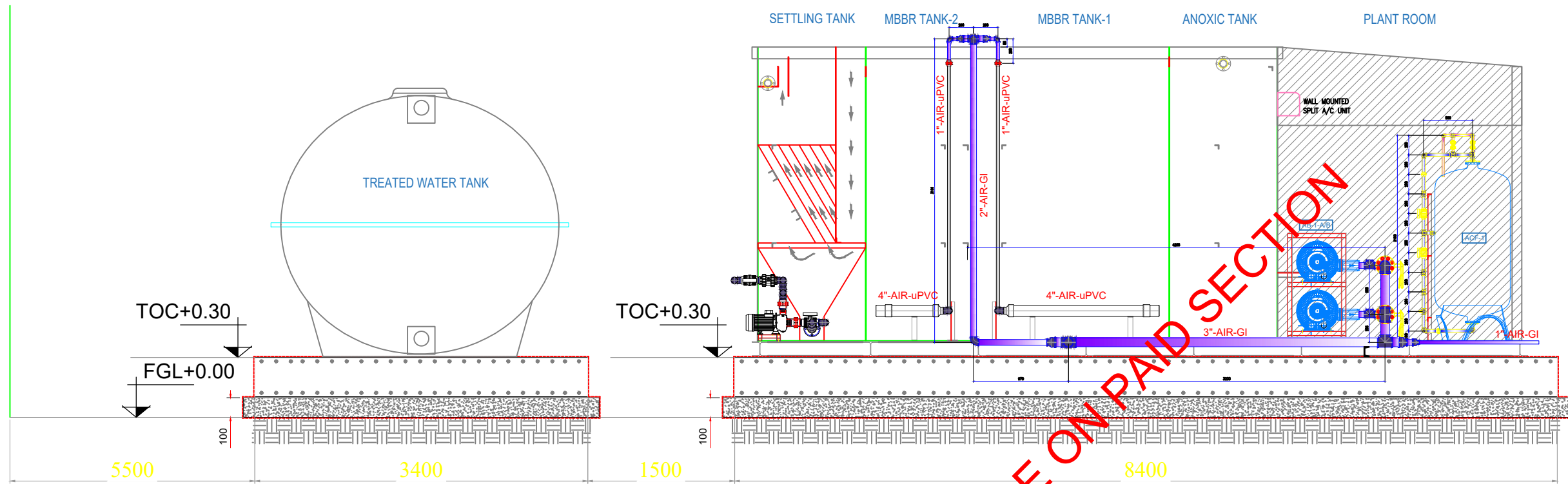


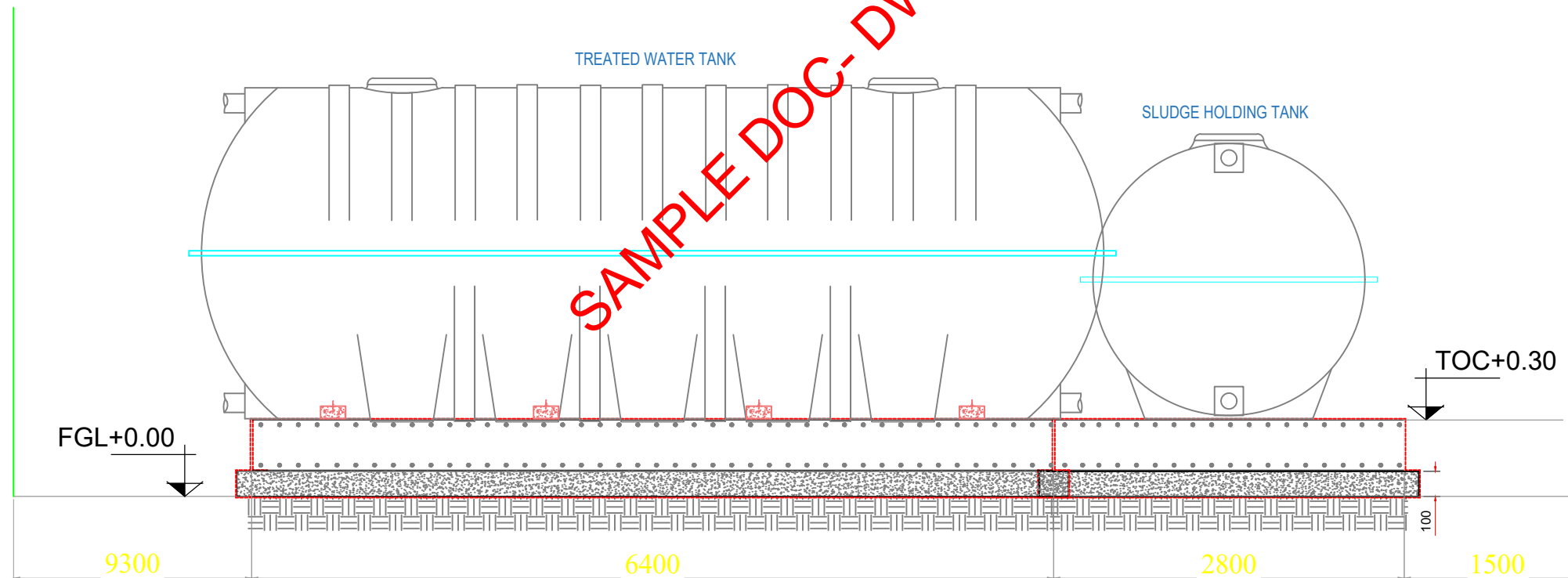
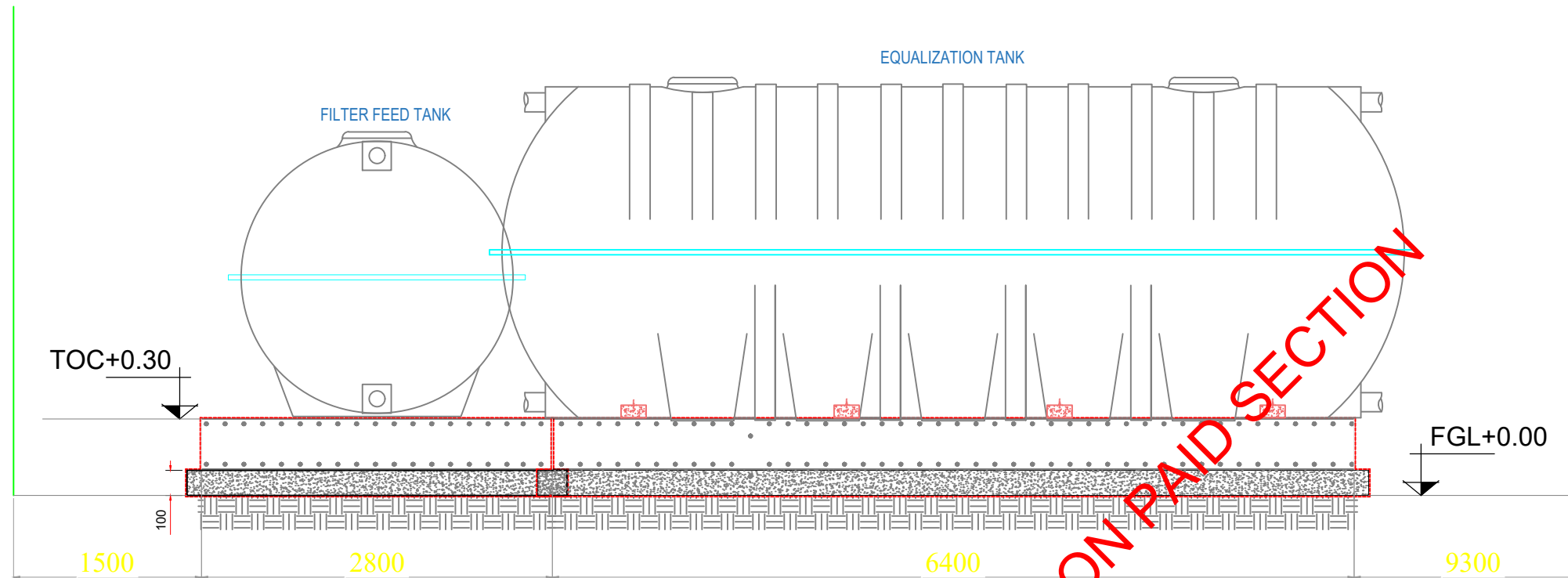
NOZZLE	FLANGE (SORF CLASS 150)	QTY	PROJECTION	ELEVATION (BOP)
N1	2" ANOXIC TANK INLET	1 NO	100 mm	+2800
N2	2" ANOXIC TANK SLUDGE RE-CIRCULATION	1 NO	100 mm	+2800
N3	2" ANOXIC TANK DRAIN	1 NO	100 mm	+50
N4	2" MBBR TANK-1 DRAIN	1 NO	100 mm	+50
N5	2" MBBR TANK-2 DRAIN	1 NO	100 mm	+50
N6	2" SETTLING TANK OUTLET	1 NO	100 mm	+2600
N7	2" SETTLING SCUM REMOVAL	1 NO	100 mm	+2500
N8	2" SETTLING TANK DRAIN	1 NO	150 mm	+75

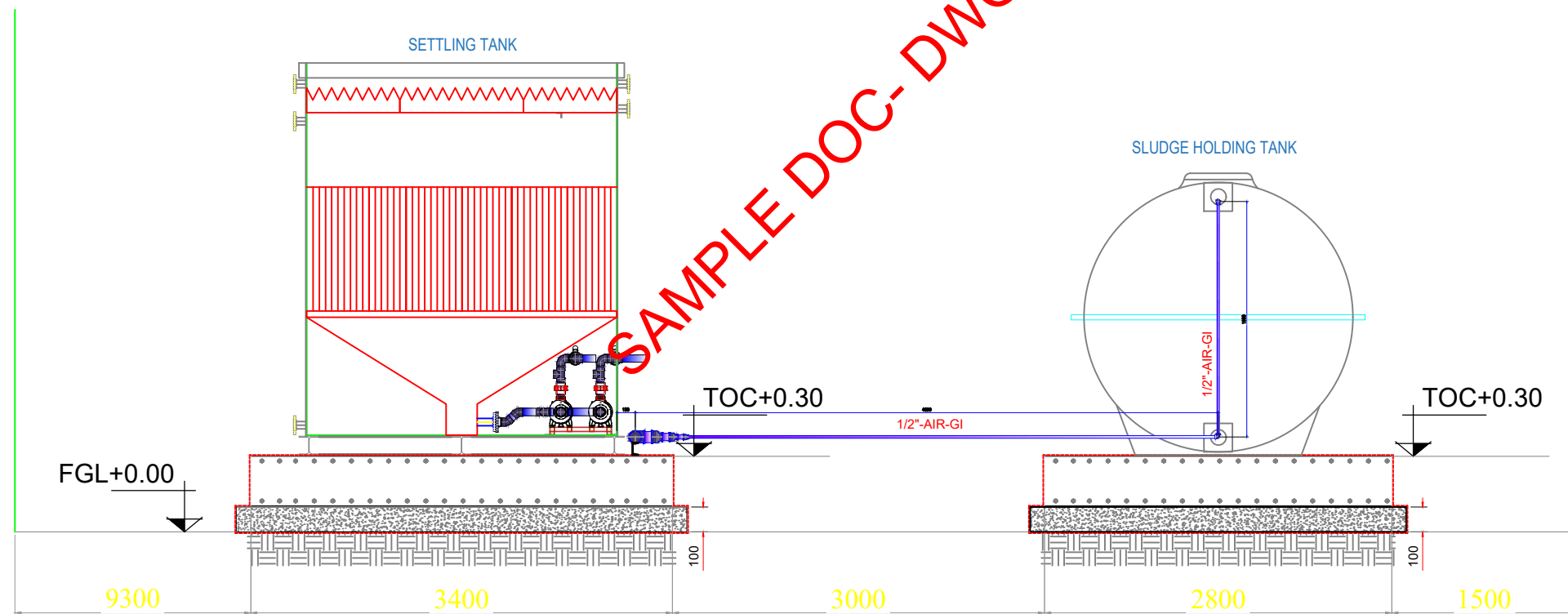
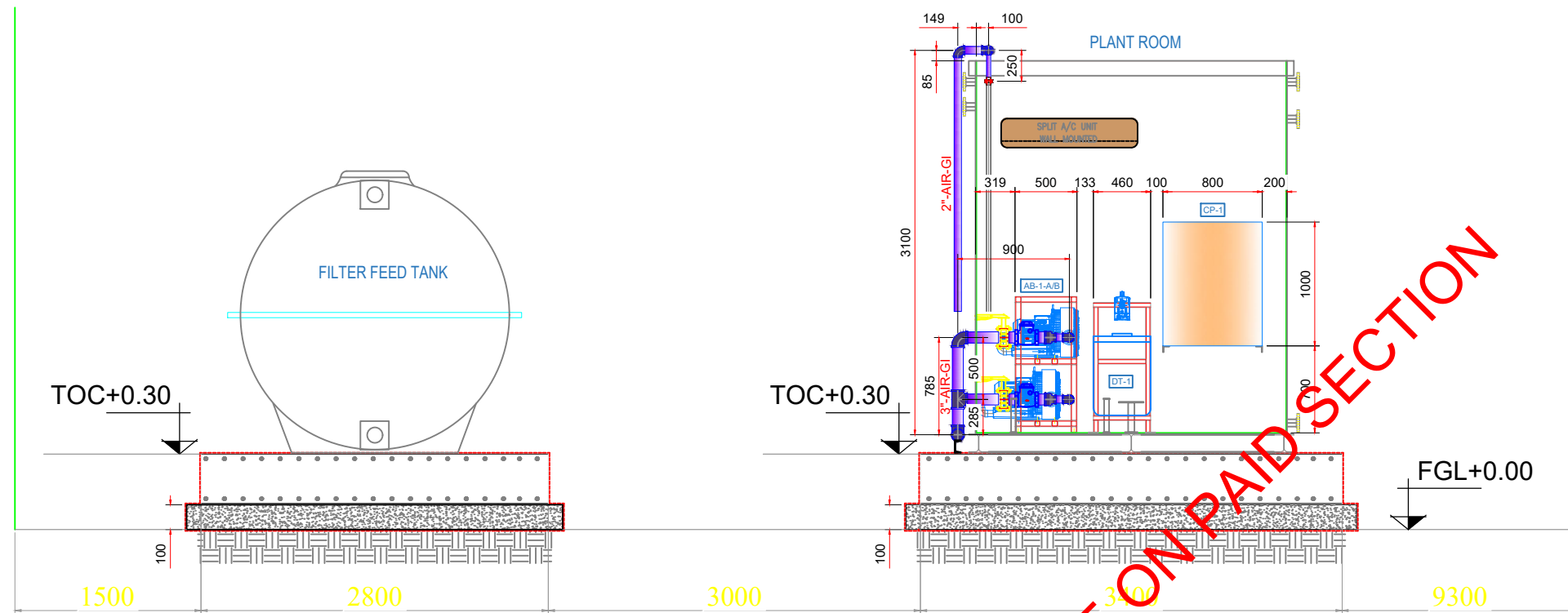
TAG	SUPPORT LOCATION	ELEVATION (BOP)	TYPE OF SUPPORT	LENGTH	QTY
PS-01	Anoxic tank inlet (uPVC Pipe-1")	+2000, +1000	1" Angle (40x40x5)	300mm	2 NOS
PS-02	Anoxic tank Re-circulation (uPVC Pipe-2")	+2000, +1000	1" Angle (40x40x5)	300mm	2 NOS
PS-03	Settling tank outlet (uPVC Pipe-2")	+2000, +1000	1" Angle (40x40x5)	300mm	2 NOS
PS-04	Settling tank scum (uPVC Pipe-2")	+2000, +1000	1" Angle (40x40x5)	300mm	2 NOS
PS-05	Air blower (GI Pipe-2")	+2000, +1000 (Tank Outside)	1" Angle (50x50x5)	300mm	2 NOS
PS-06	Air blower (uPVC Pipe-1")	+2000, +1000 (Tank Inside)	1" Angle (40x40x5)	250mm	4 NOS
PS-07	Control Panel	+700	1" Angle (50x50x5)	300mm	2 NOS

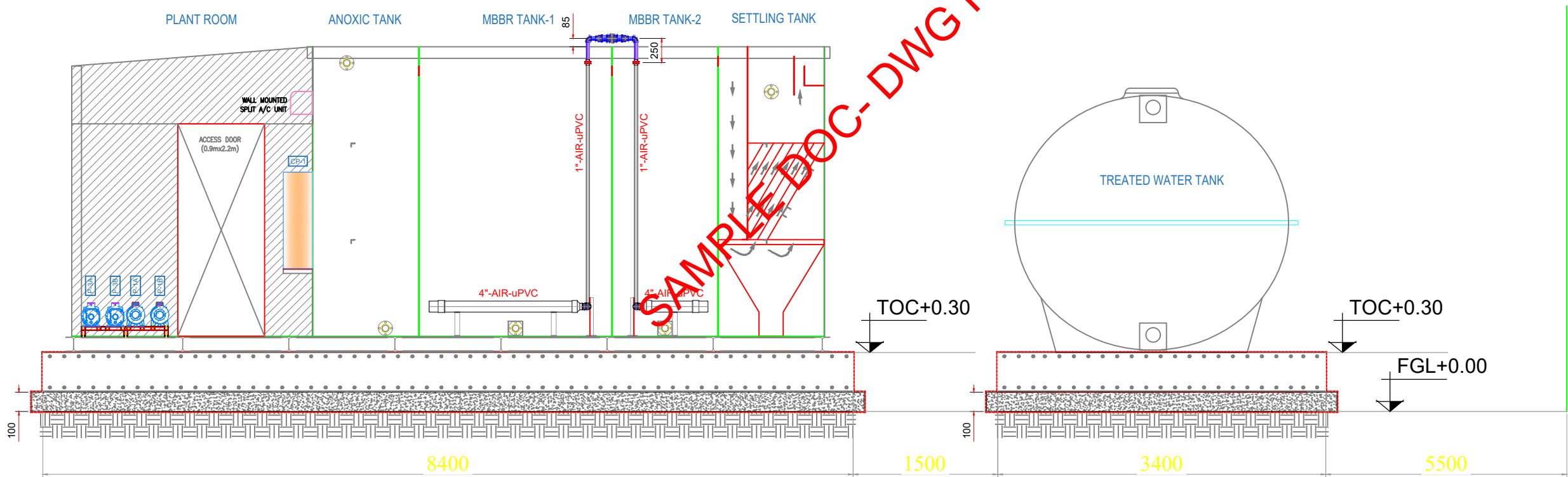
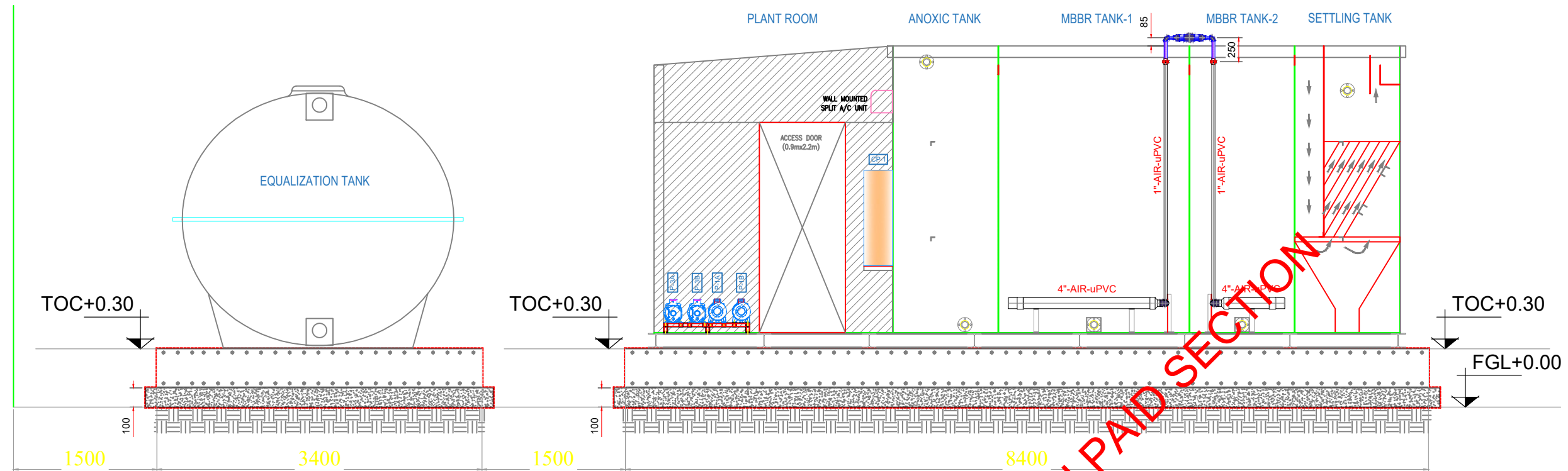
SL. NO.	DESCRIPTION	QTY	MATERIAL
1	WEIR PLATE PL-6X200X2500	1 NO	ASTM A36
2	WEIR PLATE BOTTOM PL-6X200X2500	1 NO	ASTM A36
3	BUFFER PLATE PL-6X400X2500	1 NO	ASTM A36
4	BUFFER PLATE PL-6X200X2500	1 NO	ASTM A36
5	ANGLE-L50X50X5-2500	3 NOS	ASTM A36
6	ANGLE-L50X50X5-1100	6 NOS	ASTM A36
7	CHANNEL-UPN-100-2500	2 NOS	ASTM A36
8	ANGLE-L50X50X5-2000	1 NO	ASTM A36











TAG	T-5 (BY CLIENT)
DESCRIPTION	FILTER FEED TANK
CAPACITY	5000 USG
MOC	GRP
QUANTITY	1NO.
SIZE	Ø 2.4m x Length 5.7m

TAG	P-3-A / B (CM 10-2)
DESCRIPTION	FILTER FEED PUMP/BACK WASH PUMP
CAPACITY	4.16 m3/hr @ 2.5-3.0 Bar
MOC	BODY CI, IMPELLER SS
QUANTITY	2NOS. 1 DUTY + 1 STANDBY
MAKE	GRUNDFOS / EQUIVALENT

TAG	MMF-1 (MANUAL)
DESCRIPTION	MULTI MEDIA FILTER
FLOW	4.16 m3/h (30" x 72")
MOC	FRP
QUANTITY	1 NO.
MAKE	AVENTURA

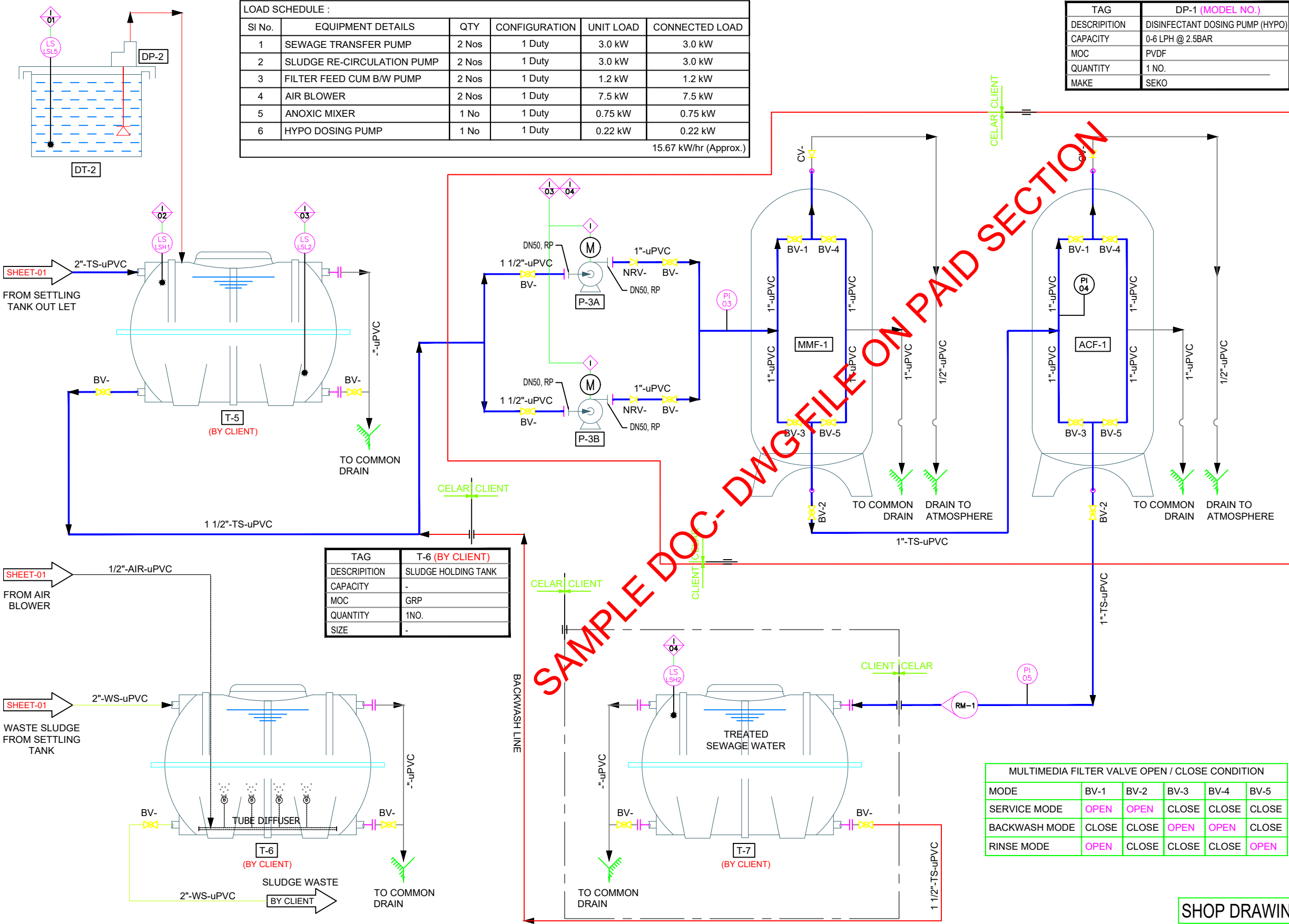
TAG	ACF-1 (MANUAL)
DESCRIPTION	ACTIVATED MEDIA FILTER
FLOW	4.16 m3/h (30" x 72")
MOC	FRP
QUANTITY	1 NO.
MAKE	AVENTURA

TAG	T-7 (BY CLIENT)
DESCRIPTION	TREATED WATER TANK
CAPACITY	10000 USG (40 m3)
MOC	GRP
QUANTITY	1NO.
SIZE	Ø 3.0m x Length 7.4m

TAG	DT-1
DESCRIPTION	DISINFECTANT DOSING TANK (HYPO)
CAPACITY	100 L
MOC	PE
QUANTITY	1 NO.
MAKE	SEKO

TAG	DP-1 (MODEL NO.)
DESCRIPTION	DISINFECTANT DOSING PUMP (HYPO)
CAPACITY	0-6 LPH @ 2.5BAR
MOC	PVDF
QUANTITY	1 NO.
MAKE	SEKO

LOAD SCHEDULE :					
SI No.	EQUIPMENT DETAILS	QTY	CONFIGURATION	UNIT LOAD	CONNECTED LOAD
1	SEWAGE TRANSFER PUMP	2 Nos	1 Duty	3.0 kW	3.0 kW
2	SLUDGE RE-CIRCULATION PUMP	2 Nos	1 Duty	3.0 kW	3.0 kW
3	FILTER FEED CUM B/W PUMP	2 Nos	1 Duty	1.2 kW	1.2 kW
4	AIR BLOWER	2 Nos	1 Duty	7.5 kW	7.5 kW
5	ANOXIC MIXER	1 No	1 Duty	0.75 kW	0.75 kW
6	HYPO DOSING PUMP	1 No	1 Duty	0.22 kW	0.22 kW
15.67 kW/hr (Approx.)					



MULTIMEDIA FILTER VALVE OPEN / CLOSE CONDITION					
MODE	BV-1	BV-2	BV-3	BV-4	BV-5
SERVICE MODE	OPEN	OPEN	CLOSE	CLOSE	CLOSE
BACKWASH MODE	CLOSE	CLOSE	OPEN	OPEN	CLOSE
RINSE MODE	OPEN	CLOSE	CLOSE	CLOSE	OPEN

SHOP DRAWING

TAG	BS-1
DESCRIPTION	BAR SCREEN
SPACING	10mm
MOC	MSEP
QUANTITY	1NO.
SIZE	1.25m x 1.0m

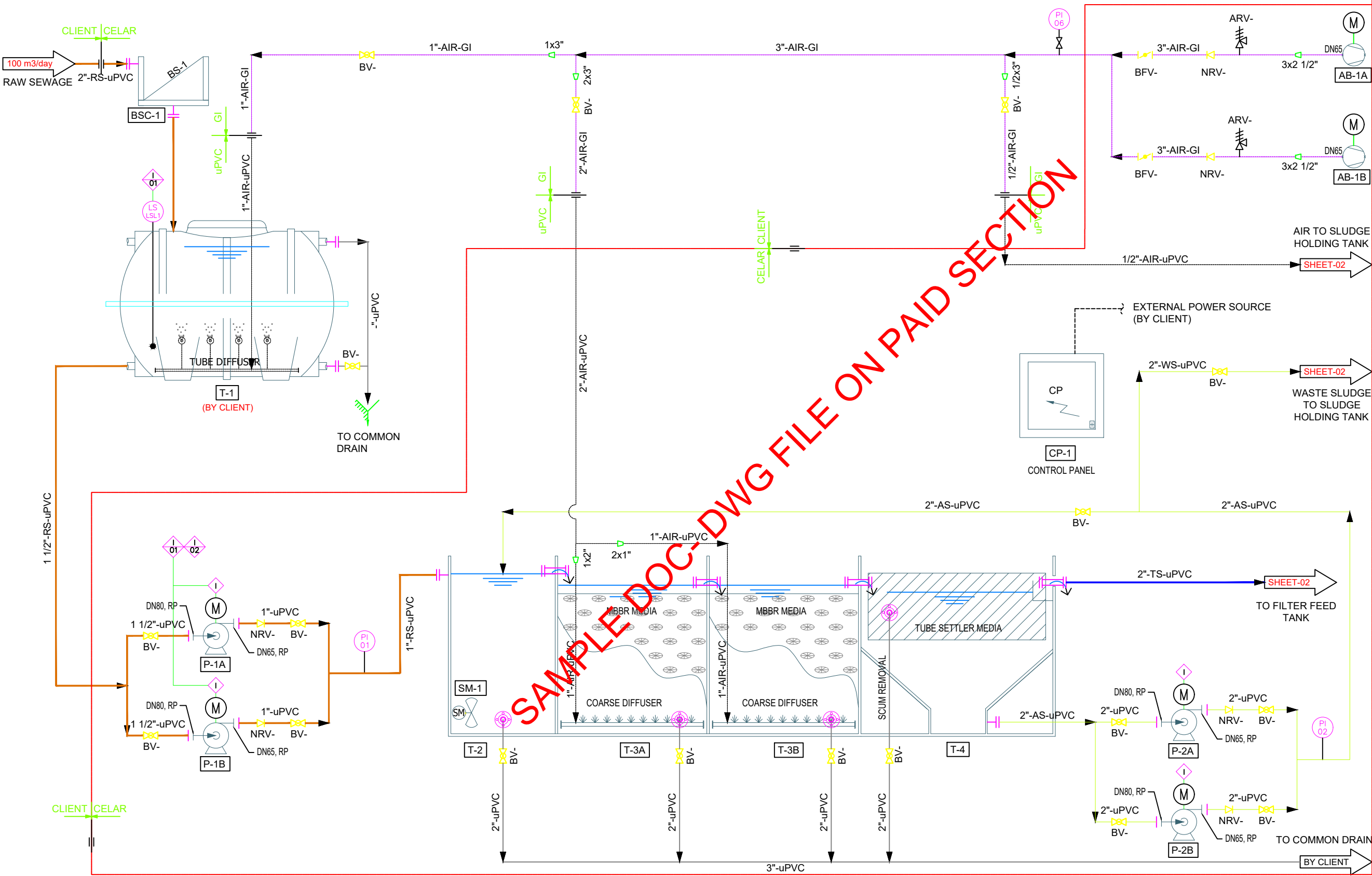
TAG	BSC-1
DESCRIPTION	BAR SCREEN CHAMBER
MOC	MSEP
QUANTITY	1 No.
CAPACITY	0.48 m3
DIMENSION	0.7m x 1.25m x 0.8m

TAG	T-1 (BY CLIENT)
DESCRIPTION	EQUALIZATION TANK
CAPACITY	10000 USG (40 m3)
MOC	GRP
QUANTITY	1NO.
SIZE	Ø 3.0m x Length 7.4m

TAG	P-1-A / B (DWO 400)
DESCRIPTION	SEWAGE TRANSFER PUMP
CAPACITY	4.16 m3/hr @ 1.5-2 Bar
MOC	BODY CI, IMPELLER SS
QUANTITY	2NOS. 1 DUTY + 1 STANDBY
MAKE	EBARA / EQUIVALENT

TAG	T-2
DESCRIPTION	ANOXIC TANK
CAPACITY	8.25 m3/hr
MOC	MS-EP
QUANTITY	1NO.
SIZE	1.1m x 2.5m x 3.0m

TAG	T-3A
DESCRIPTION	MBBR TANK-1
CAPACITY	15 m3
MOC	MS-EP
QUANTITY	1NO.
SIZE	2.0m x 2.5m x 3.0m



TAG	T-3B
DESCRIPTION	MBBR TANK-2
CAPACITY	8.25 m3
MOC	MS-EP
QUANTITY	1NO.
SIZE	1.1m x 2.5m x 3.0m

TAG	T-4
DESCRIPTION	SETTLING TANK
CAPACITY	8.25 m3
MOC	MS-EP
QUANTITY	1NO.
SIZE	1.1m x 2.5m x 3.0m

TAG	P-2-A / B (DWO 400)
DESCRIPTION	SLUDGE RE-CIRCULATION PUMP
CAPACITY	4.16 m3/hr @ 1.5-2.0 Bar
MOC	BODY CI, IMPELLER SS
QUANTITY	2NOS. 1 DUTY + 1 STANDBY
MAKE	EBARA / EQUIVALENT

TAG	AB-1-A / B (BL62000207500)
DESCRIPTION	AIR BLOWERS (EQT+AERATION+SHT)
CAPACITY	220 Nm3/hr @ 350 mBAR
MOC	AS PER MANUFACTURER STD.
QUANTITY	2NOS. 1 DUTY + 1 STANDBY
MAKE	SEKO

TAG	SM-1 (MX-gi 21.08.4)
DESCRIPTION	ANOXIC SUBMERSIBLE MIXER
QUANTITY	1NOS. 1 DUTY
MOC	AS PER MANUFACTURER STD.
MAKE	SCM

SHOP DRAWING

FLWSHEET SYMBOLS

VALVES SYMBOLS

INSTRUMENT SYMBOLS

MECHANICAL SYMBOLS

EQUIPMENT

PIPE LINE/PIPING

GENERAL

PIPING IDENTIFICATION

ABBREVIATION (GENERAL)

A/G - ABOVE GROUND	RE - REFERENCE ELECTRODE
B/G - BELOW GROUND	RO - RESTRICTION ORIFICE
CC - CORROSION COUPON	RV - RELIEF VALVE
CK - CASTELLOC KEYED VALVE	SC - SAMPLE CONNECTION
D - DRAIN	SCR - SCREWED CONNECTION
EL - ELEVATION	SP - SET POINT
FB - FULL BORE	TSO - TIGHT SHUT OFF
FO - FLUSHING OUT	UC - UTILITY CONNECTION
GO - GEAR OPERATED	V - VENT
HC - HOSE CONNECTION	CS - CARBON STEEL
IH - INSPECTION HOLE	PE - POLY ETHYLENE
LC - LOCKED CLOSED	PP - POLY PROPYLENE
LO - LOCKED OPEN	GRE - GLASS REINFORCED EPOXY
M - MOTOR	SS - STAINLESS STEEL
MH - MAN HOLE	SS - CARBON STEEL WITH 3MM CORROSION ALLOWANCE
MOV - MOTOR OPERATED VALVE	CSID(PE) - CARBON STEEL WITH 1MM CORROSION ALLOWANCE & POLYETHYLENE LINED
NC - NORMALLY CLOSED	
NMF - NORMALLY NO FLOW	
NO - NORMALLY OPEN	
PVV - PRESSURE VACUUM VALVE	

INSTRUMENT IDENTIFICATION AND NUMBERING SYSTEM

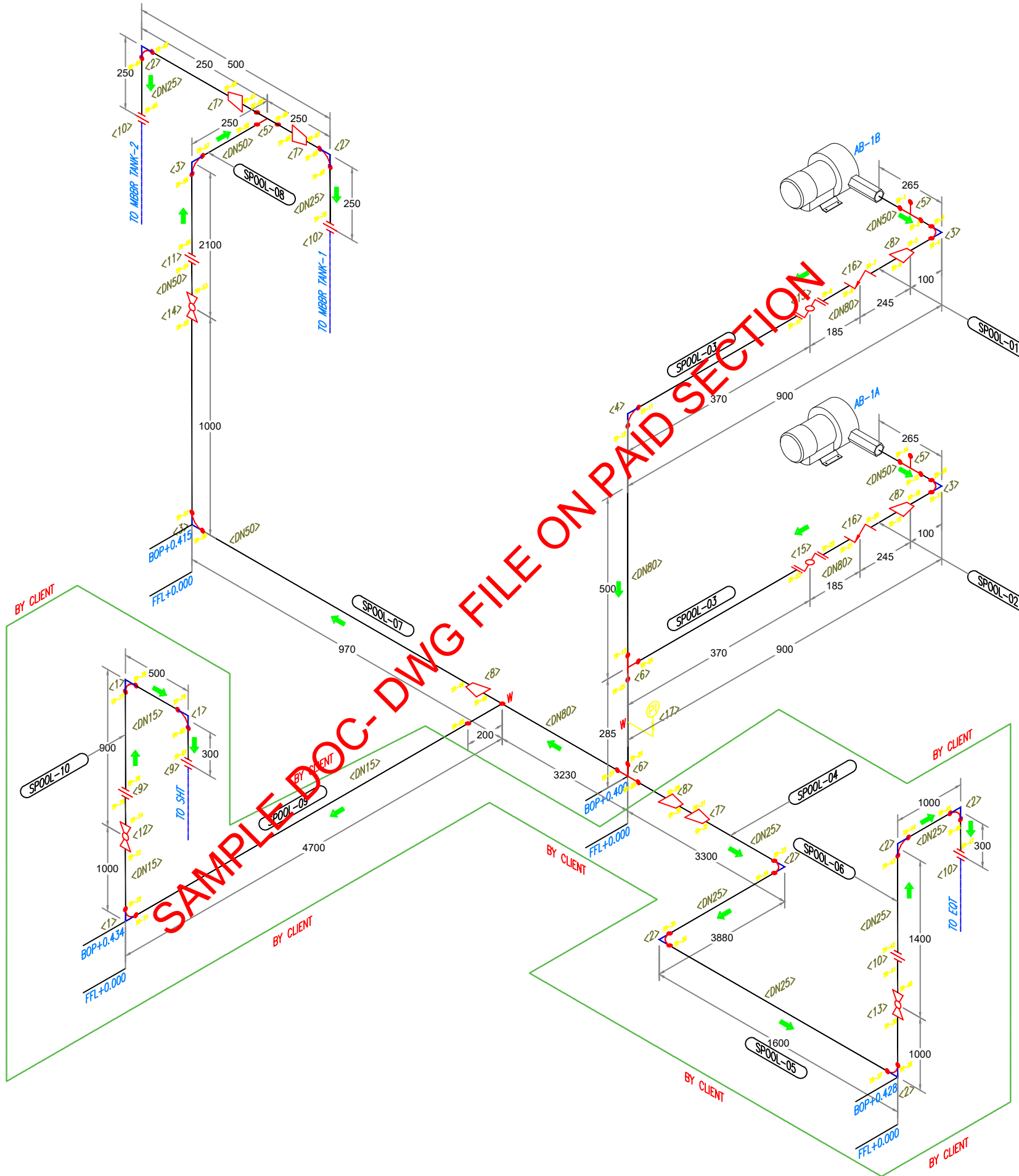
PROPERTY MEASURED	INSTRUMENT FUNCTIONS											
	PROPERTY MEASURED	TRANS-MITTER	INDICATOR	STATUS DISPLAY	RECORDING	CONTROL LINE	INTER-LOCKING	INTER-LOCKING	INTER-LOCKING	INTER-LOCKING	INTER-LOCKING	INTER-LOCKING
DESCRIPTION	F	FT	I	B	R	C	Q	S	Z	A		
FLOW	F	FT	I	B	R	C	Q	S	Z	A		
HAND	H	HT	I	B	R	C	Q	S	Z	A		
LEVEL	L	LT	I	B	R	C	Q	S	Z	A		
PRESSURE	P	PT	I	B	R	C	Q	S	Z	A		
PRESSURE DIFFERENTIAL	PD	PDT	PDI	PDR	PDC	PDS	PDZ	PDA				
QUALITY ANALYSIS OR CONCENTRATION	Q	QT	QI	QB	QR	QC	QS	QZ	QA			
SPEED	S	ST	SI	SB	SR	SC	SS	SZ	SA			
TEMPERATURE	T	TT	TI	TB	TR	TC	TS	TZ	TA			
MOVEMENT/DEPLACEMENT	G	GT	GI	GB	GR			GZ				
WEIGHT, MASS OR LOAD	W	WT	WI	WB	WR	WC	WS	WZ	WA			
ANY OTHER PROPERTY	X	XT	XI	XB	XR	XC	XZ		XA			
MULTI VARIABLE	U											
COMPUTING FUNCTION	Y											

NOTES

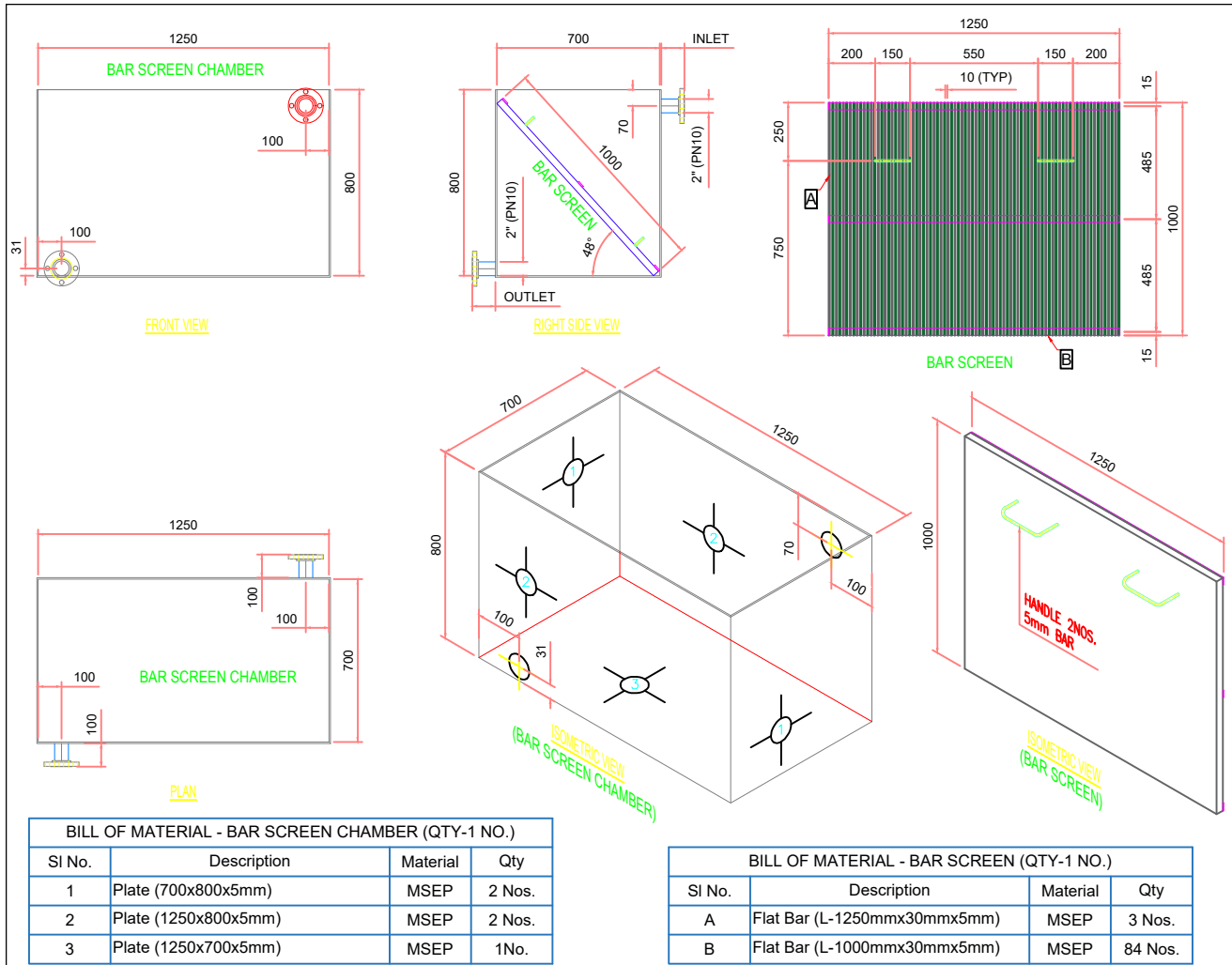
- INSTRUMENTS ARE NUMBERED SEQUENTIALLY ACCORDING TO THE PROPERTY MEASURED (FIRST LETTER CODE)
- SEPARATE GROUPS ARE TO BE FORMED BY:
 - PRIMARY FLOW ELEMENTS
 - PRESSURE POINT (WITH ELEMENT)
 - LOCAL PRESSURE GAUGES
 - PRESSURE POINT (WITHOUT ELEMENT)
 - TEMPERATURE POINT (THERMOWELLS WITH ELEMENT)
 - LOCAL TEMPERATURE INDICATORS
 - TEMPERATURE POINT (THERMOWELLS WITHOUT ELEMENT)
- INDICATE NEXT TO CIRCLE, HIGH (H), HIGH HIGH (HH), LOW(L), LOW LOW(LL), OPEN(O), CLOSE(C) FUNCTION
- HAND OPERATION-MANUAL LOADER HC -KEY SWITCH HBS(HBZ) -PUSH BUTTON HS(HZ)
- ANY OTHER PROPERTY -X- INDICATE NEXT TO CIRCLE PROPERTY OF MEASUREMENT (a) OR FUNCTION (b)
 - (a) EVACUATION ALARM
 - (b) BY-PASS

SHOP DRAWING

SP00L-01 TO SP00L-10
NO. OF WELD 02
NO. OF THREADED 81

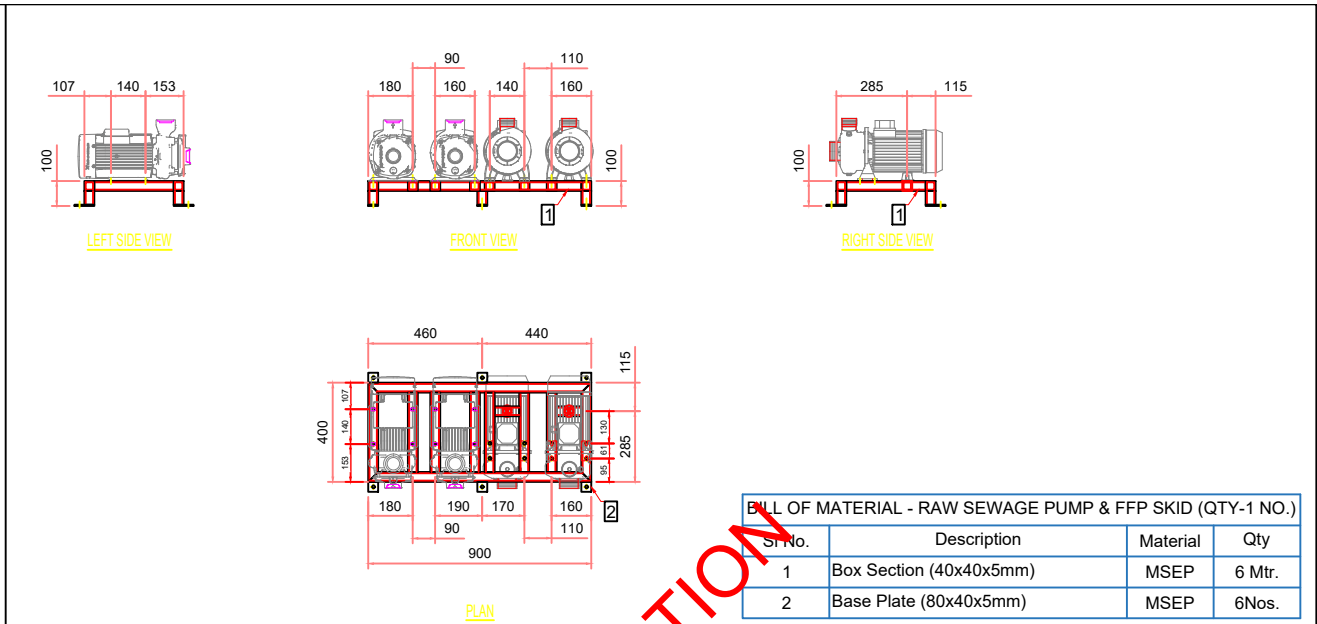


BILL OF MATERIALS						
ID	QTY	UNITS	SIZE (NBS)	SCH/CLASS	MOC	DESCRIPTION
PIPE						
DN25	1000	mm	1"	10	GI	PIPE
DN50	4500	mm	2"	10	GI	PIPE
DN80	6000	mm	3"	10	GI	PIPE
FITTINGS						
2	2	NOS	1"	10	GI	ELL 90°
3	4	NOS	2"	10	GI	ELL 90°
4	1	NO	3"	10	GI	ELL 90°
5	3	NOS	2"	10	GI	EQUAL TEE
6	2	NOS	3"	10	GI	EQUAL TEE
7	2	NOS	2 x 1"	10	GI	REDUCER
8	3	NOS	3 x 2"	10	GI	REDUCER
10	2	NOS	1"	10	SS304	UNION
11	1	NO	2"	10	SS304	UNION
FLANGES						
—	4	NOS	3"	150	MS	FLANGE
VALVES						
14	1	NO	2"	—	—	BALL VALVE
15	2	NOS	3"	—	—	BUTTERFLY VALVE
16	2	NOS	3"	—	—	NON RETURN VALVE
—	2	NOS	2"	—	—	PRESSURE RELIEF VAVLE
INSTRUMENT						
17	1	NO	—	—	—	PRESSURE GAUGE
FASTENERS						
—	8	NOS	M16		SS304	STUD BOLT SET (90mm L)
—	4	NOS	3"	—	—	GASKET

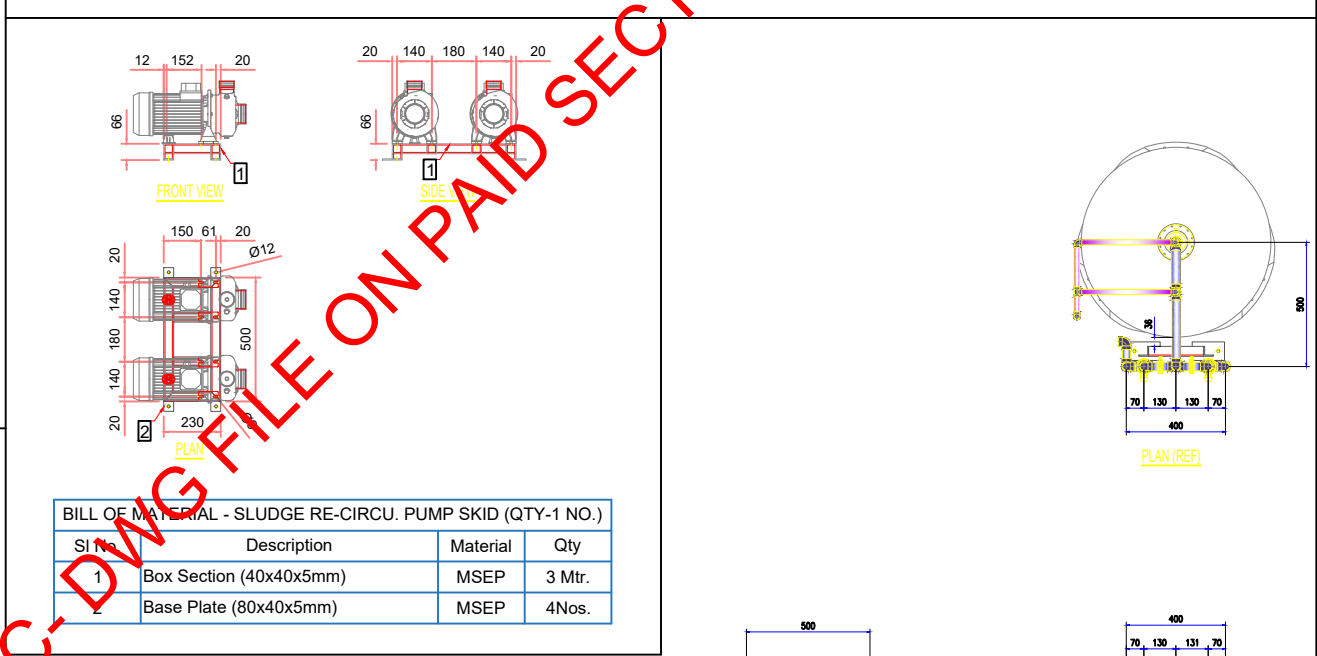


BILL OF MATERIAL - BAR SCREEN CHAMBER (QTY-1 NO.)			
SI No.	Description	Material	Qty
1	Plate (700x800x5mm)	MSEP	2 Nos.
2	Plate (1250x800x5mm)	MSEP	2 Nos.
3	Plate (1250x700x5mm)	MSEP	1No.

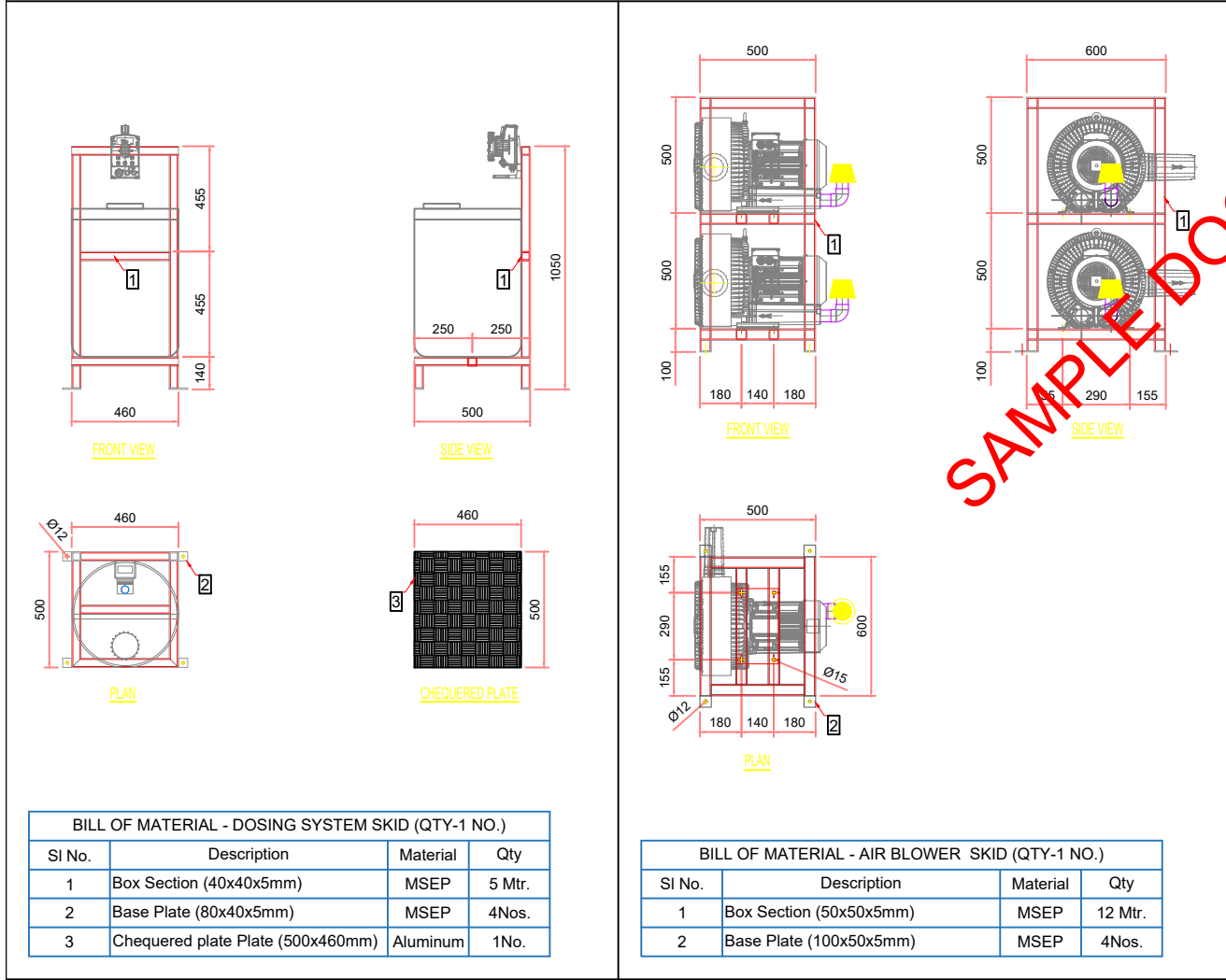
BILL OF MATERIAL - BAR SCREEN (QTY-1 NO.)			
SI No.	Description	Material	Qty
A	Flat Bar (L-1250mmx30mmx5mm)	MSEP	3 Nos.
B	Flat Bar (L-1000mmx30mmx5mm)	MSEP	84 Nos.



BILL OF MATERIAL - RAW SEWAGE PUMP & FFP SKID (QTY-1 NO.)			
SI No.	Description	Material	Qty
1	Box Section (40x40x5mm)	MSEP	6 Mtr.
2	Base Plate (80x40x5mm)	MSEP	6Nos.

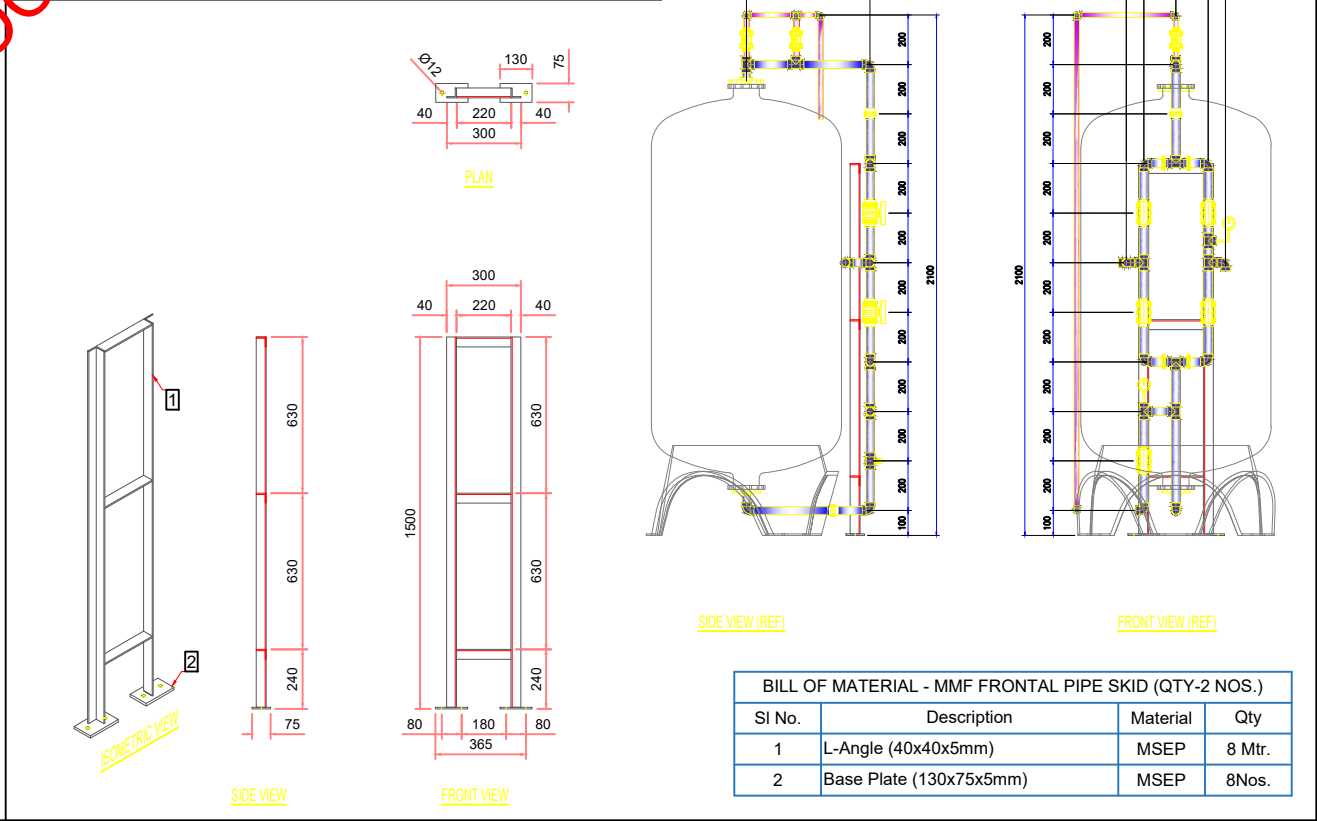


BILL OF MATERIAL - SLUDGE RE-CIRCU. PUMP SKID (QTY-1 NO.)			
SI No.	Description	Material	Qty
1	Box Section (40x40x5mm)	MSEP	3 Mtr.
	Base Plate (80x40x5mm)	MSEP	4Nos.

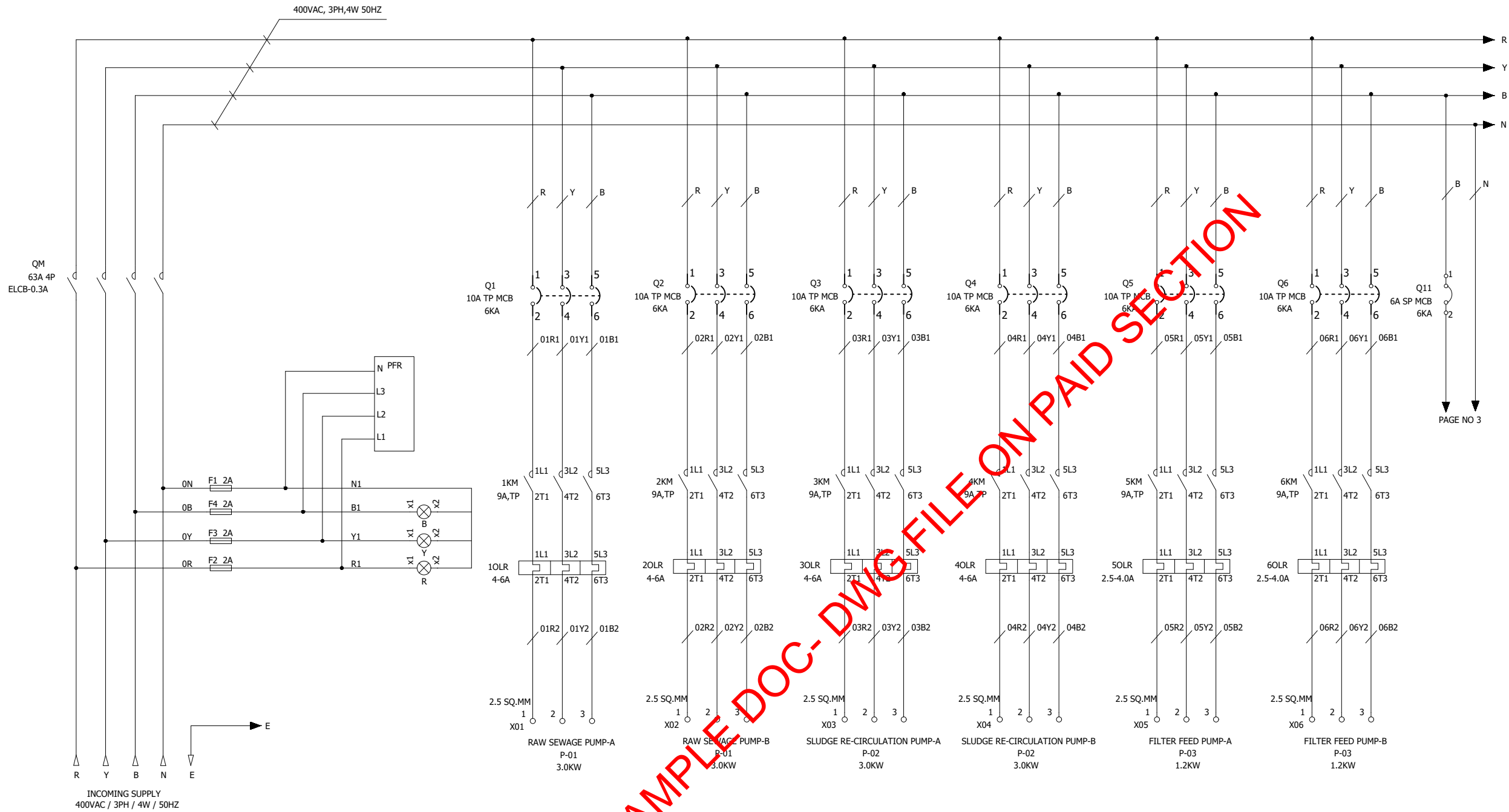


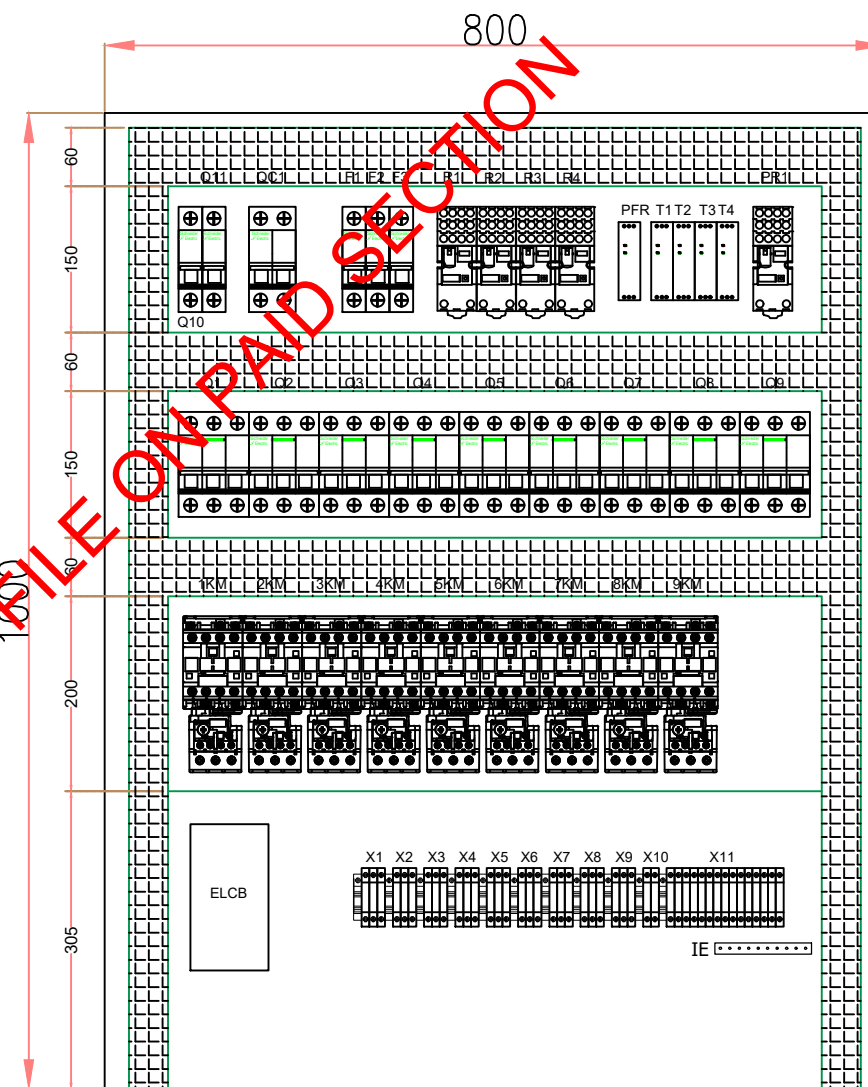
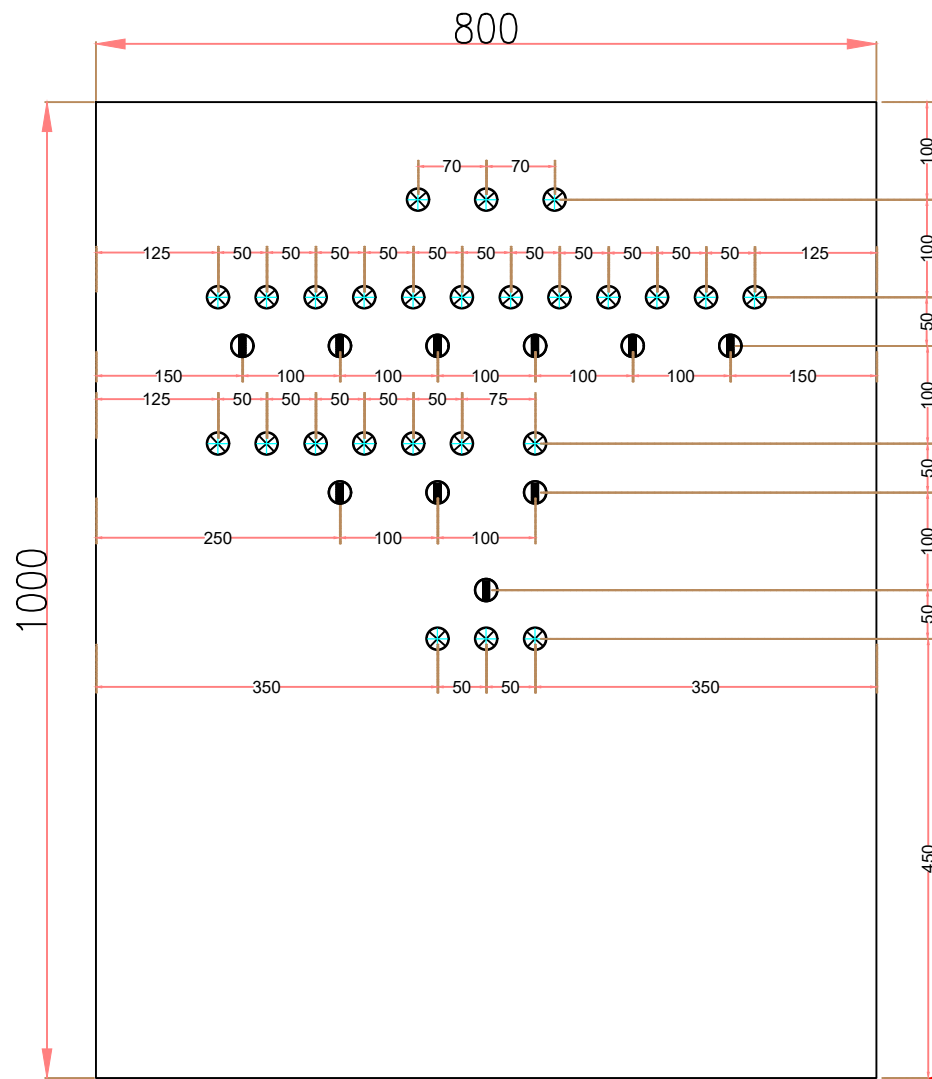
BILL OF MATERIAL - DOSING SYSTEM SKID (QTY-1 NO.)			
SI No.	Description	Material	Qty
1	Box Section (40x40x5mm)	MSEP	5 Mtr.
2	Base Plate (80x40x5mm)	MSEP	4Nos.
3	Chequered plate Plate (500x460mm)	Aluminum	1No.

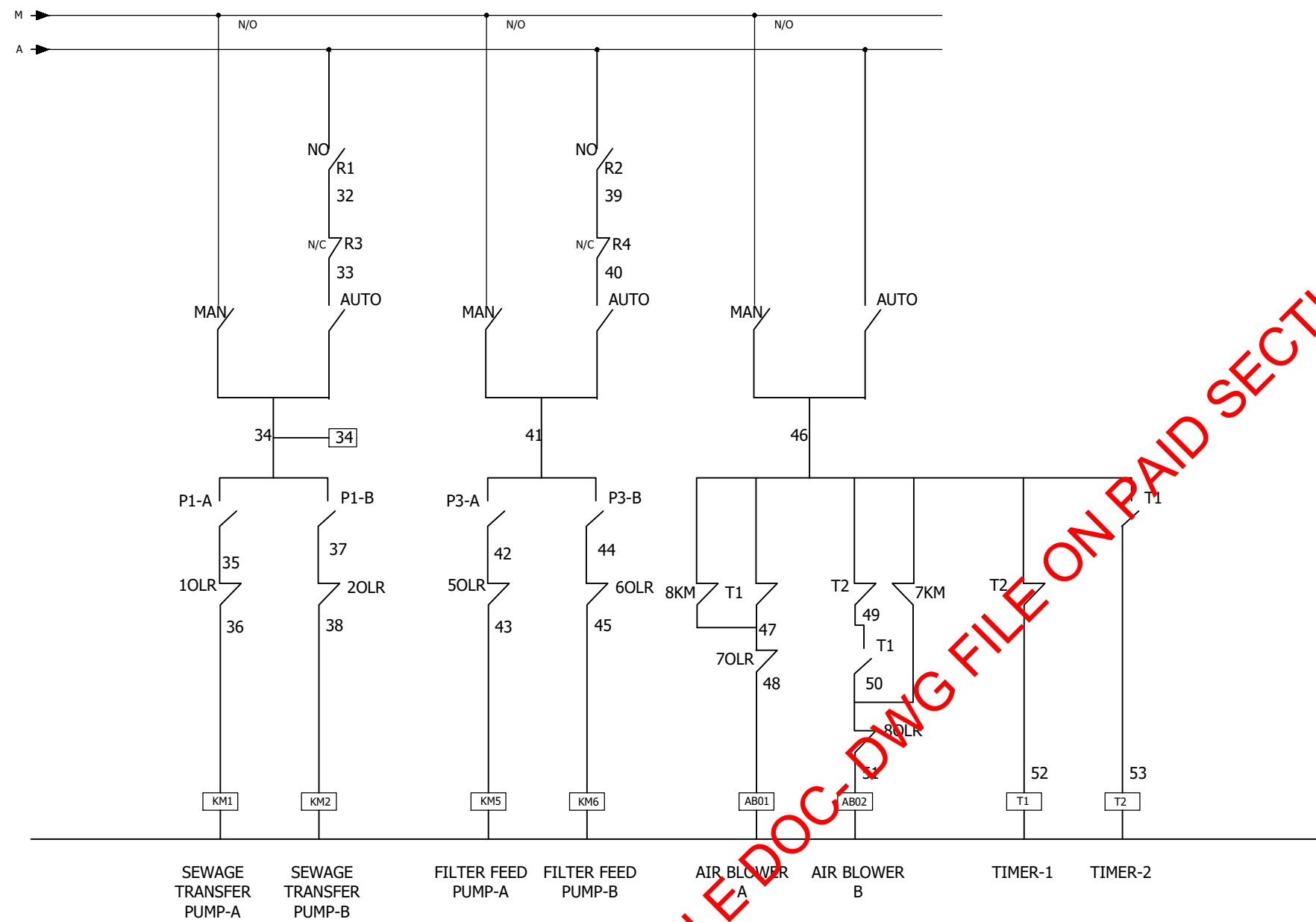
BILL OF MATERIAL - AIR BLOWER SKID (QTY-1 NO.)			
SI No.	Description	Material	Qty
1	Box Section (50x50x5mm)	MSEP	12 Mtr.
2	Base Plate (100x50x5mm)	MSEP	4Nos.

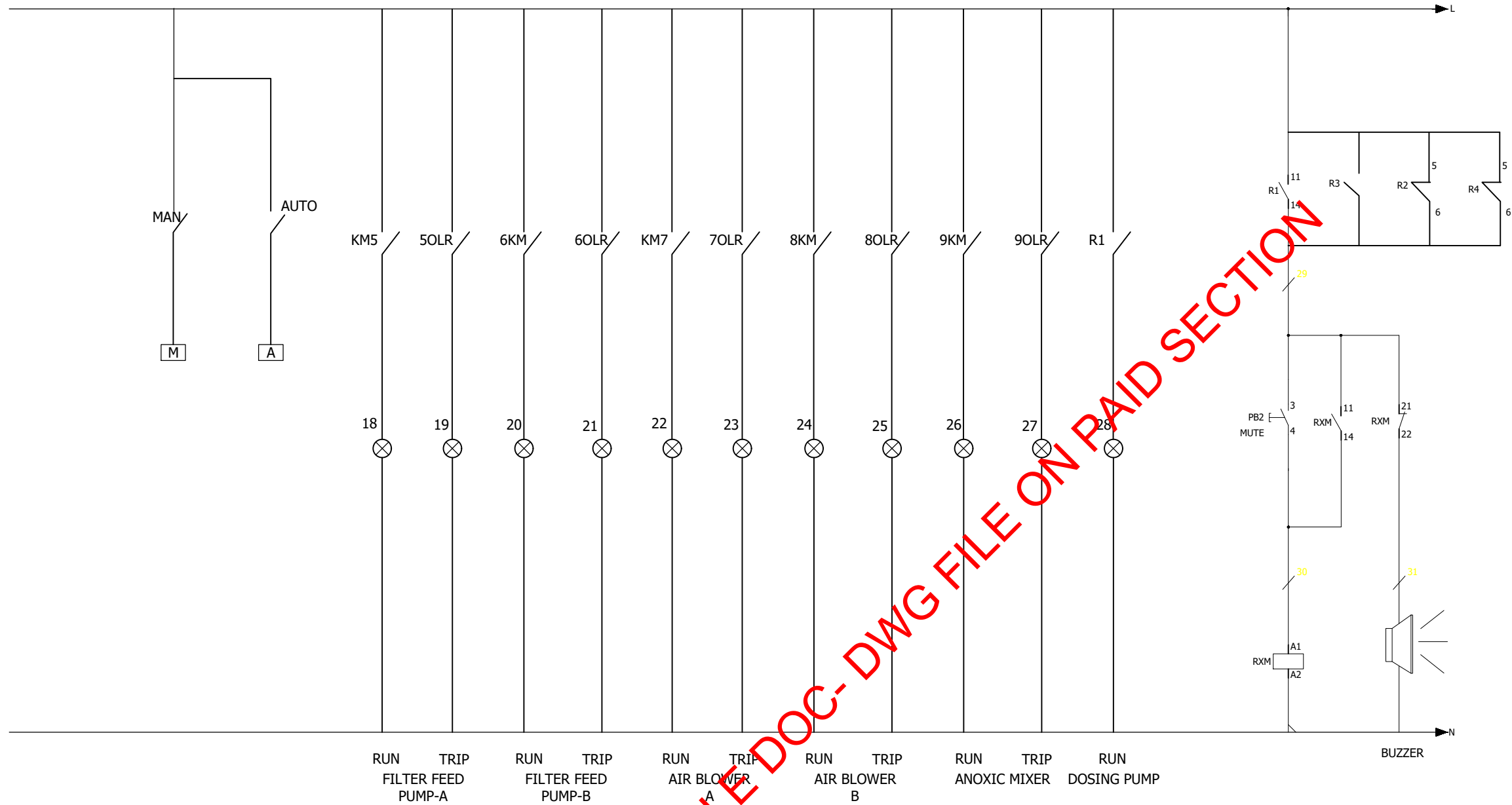


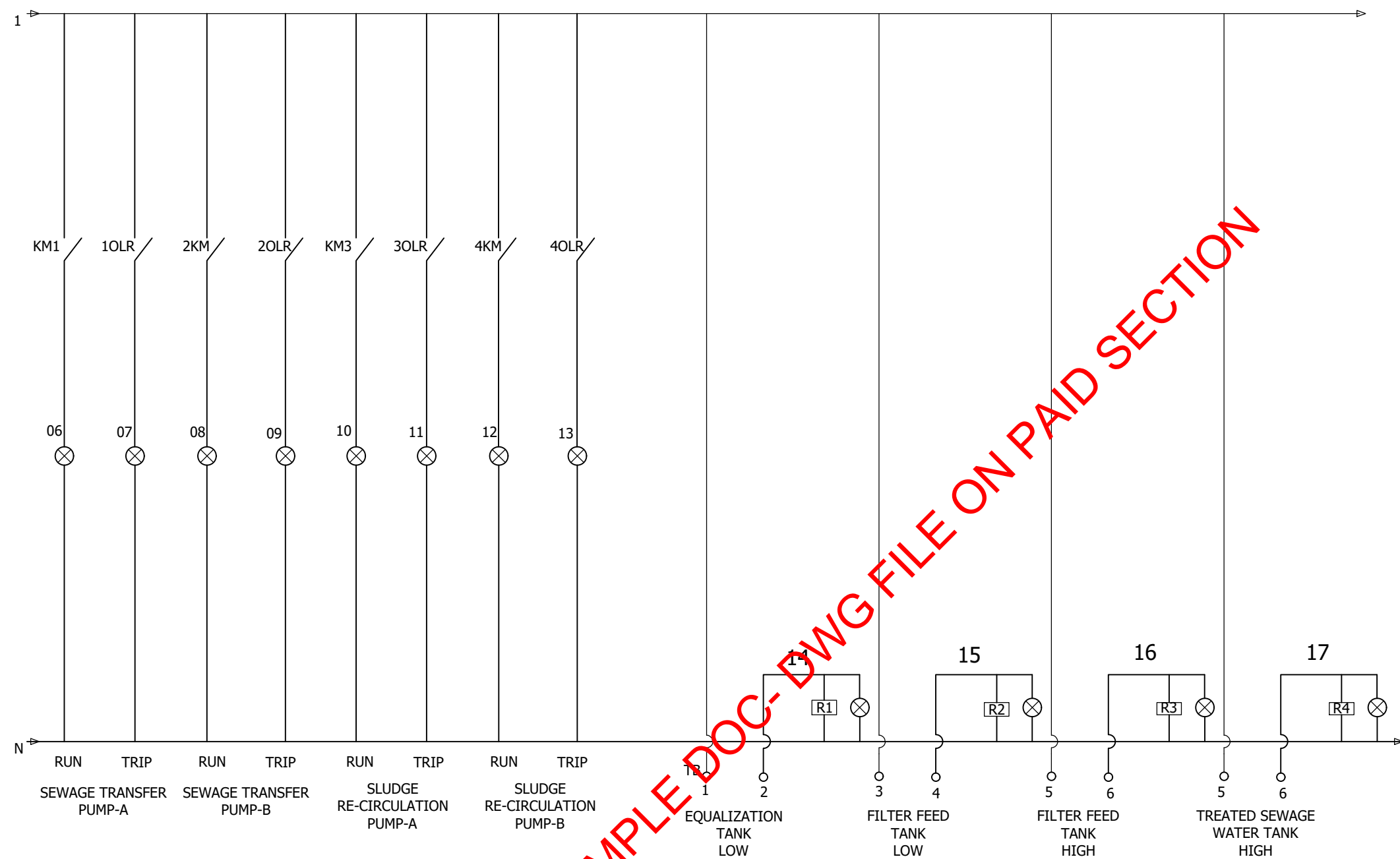
BILL OF MATERIAL - MMF FRONTAL PIPE SKID (QTY-2 NOS.)			
SI No.	Description	Material	Qty
1	L-Angle (40x40x5mm)	MSEP	8 Mtr.
2	Base Plate (130x75x5mm)	MSEP	8Nos.

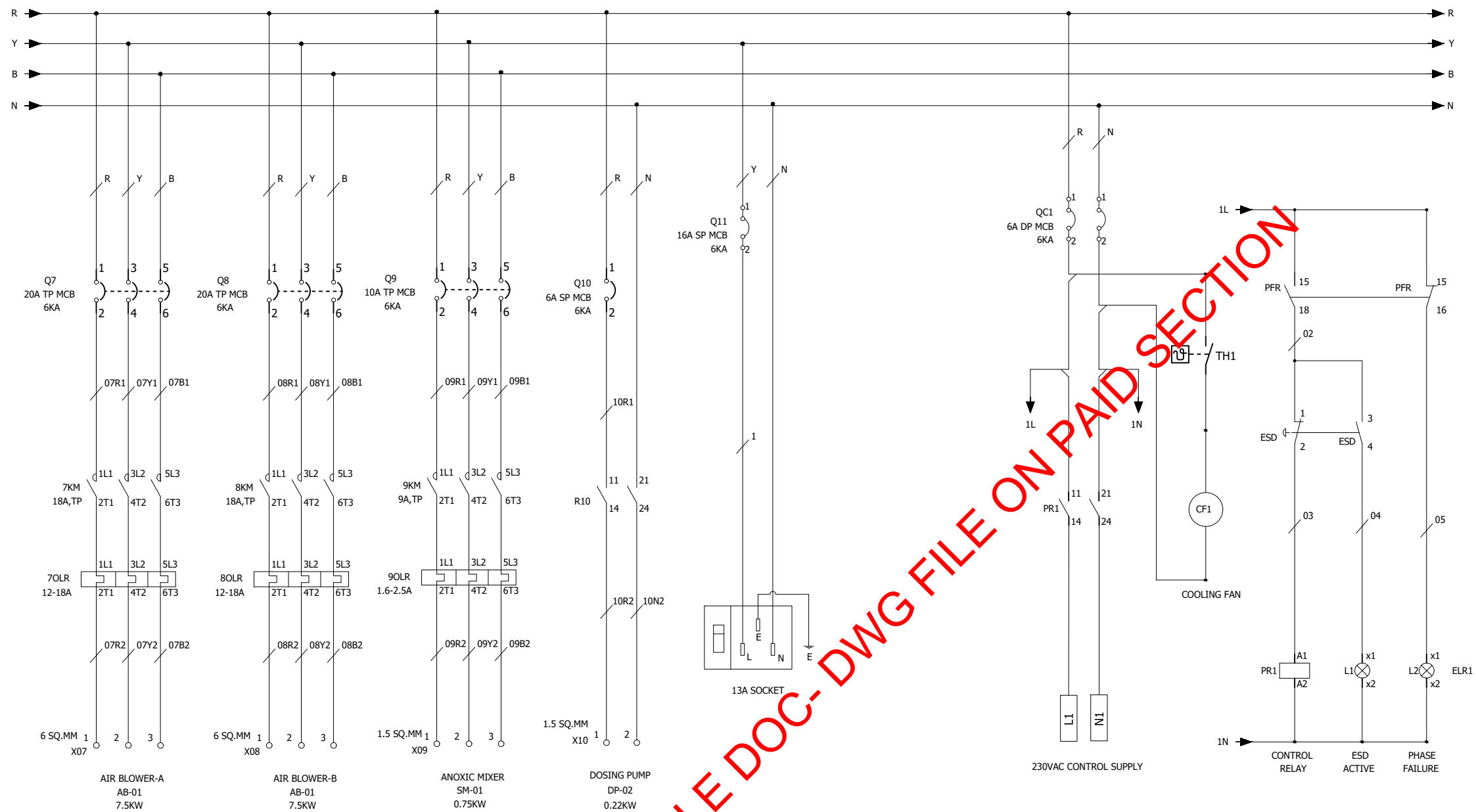












SAMPLE DOC- DWG FILE ON PAID SECTION