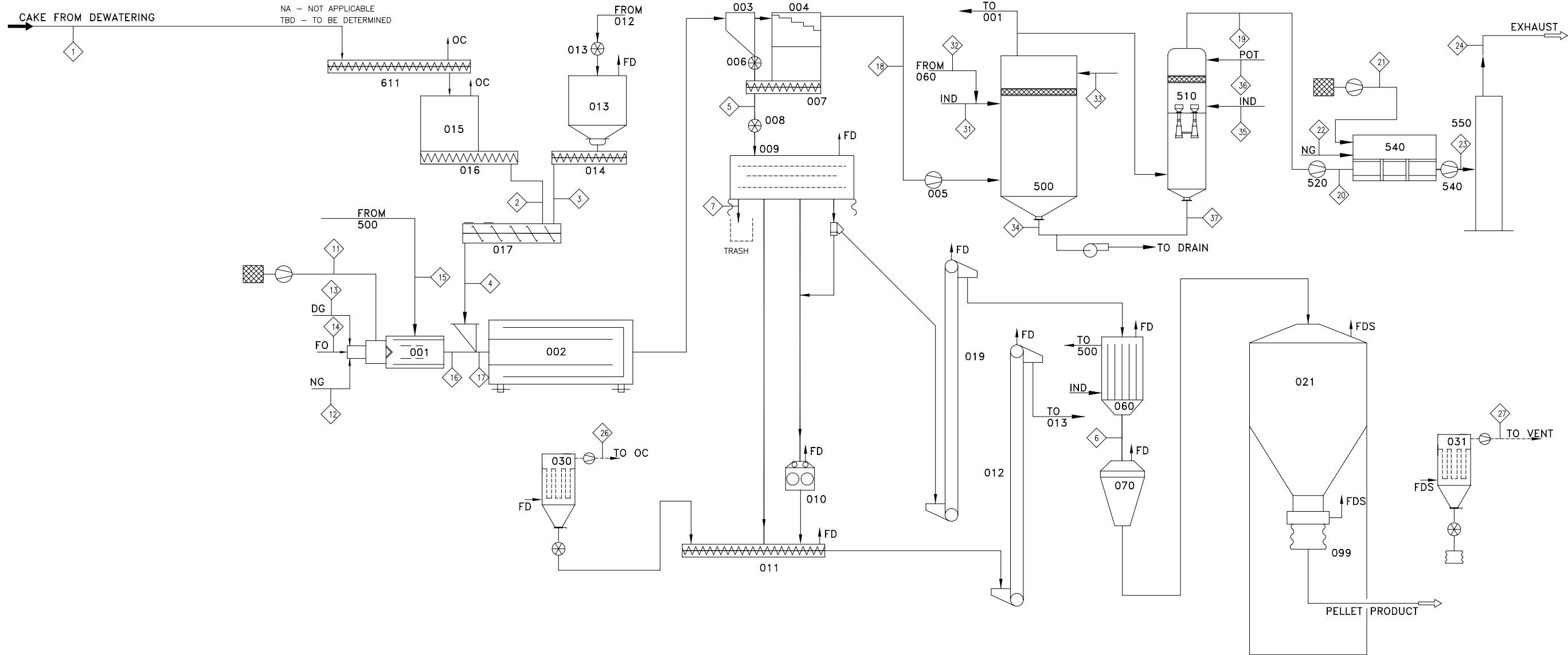


TAG NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37			
DESCRIPTION		Cake from Dewatering	Wet Cake	Recycle Material	Dryer Feed	Dried Solids	Pellet Product	Trash Product				Comb. Air	Natural Gas	Digester Gas	Fuel Oil	Circulating Gas	Leak air	Process Gas	Process Gas	Process Gas	Process Gas	Comb. Air	Natural Gas	Process Gas	Process Gas		Aspiration air	Aspiration air				Cooling Water	Cooling Water	Cooling Water	Cooling Water	Cooling Water	Cooling Water	Cooling Water		
MASS FLOW	LBS./HR		2,248	25,556	36,800	27,934	2,187	1				10,049	554			40,461	4,060	55,125	63,925	14,206	14,206	346	19	14,571	14,571		8,296	8,664				127,256	18,169	7,506	161,788	12,288	7,506	20,195		
VOL. FLOW	ACFM											2,320	202			10,464	937	33,229	20,012	3,544	3,544	80	7	4,255	4,255		2,000	2,000												
TEMPERATURE	°F		70	155	114	161	99	155								125	85	903	200	113	113	85	60	210	210		115	85												
SOLIDS CONTENT	%DS		20.0%	92.0%	70.0%	92.0%	92.0%	92.0%																																

Design Conditions		Utilities Per Dryer Train	
Client	Stamford, CT	Natural Gas (Therms/H)	146(10% contingency)
Dryer	DDS-40	Digester Gas (Therms/H)	NA
No. of Dryers	1	Fuel Oil (GPH)	NA
Cake Solids %DS	20%	Plant Water (GPM)	370(10% contingency)
Evaporation lbs/hr	8,800	Plant Water Temp, °F	75
Fuels	NG	Potable Water (GPM)	TBD
Operation	24/5	Electricity (kWH)	TBD

001	Furnace	009	Screen	017	Mixer	500	Saturator	IND	Plant Water
002	DDS Drum	010	Crusher	019	Bucket Elevator	510	Venturi Scrubber	NA	Not Applicable
003	Preseparator	011	Screw Conveyor	021	Product Silo	520	Venturi Fan	NG	Natural Gas
004	Polycyclone	012	Bucket Elevator	030	Fugitive Dust System	540	RTO	POT	Potable
005	Main ID Fan	013	Recycle Bin	031	Silo Fugitive Dust	550	Stack	TBD	To Be Determined
006	Rotary Valve	014	Feed Conveyor	060	Pellet Cooler	600	Nitrogen System		
007	Screw Conveyor	015	Cake Bin	070	Transporter	620	Pellet Oiling System		
008	Rotary Valve	016	Cake Feed	099	Loading Spout				



DATE	REV	DESCRIPTION
06/05/06	0	FOR FINAL REVIEW/BUILDING PERMIT

DRAWN BY: DAN  
 CHECKED BY:  
 APPROVED BY:  
 SCALE: NONE  
 FILE: 1524-P1002  
 SIZE:

CITY OF STAMFORD CONNECTICUT  
 SOLIDS DRYING PROJECT  
 PROCESS DIAGRAM  
 MASS BALANCE 20%  
 PROJECT NUMBER: 1524  
 DRAWING NUMBER: PI-002  
 SHEET 1 OF 1

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