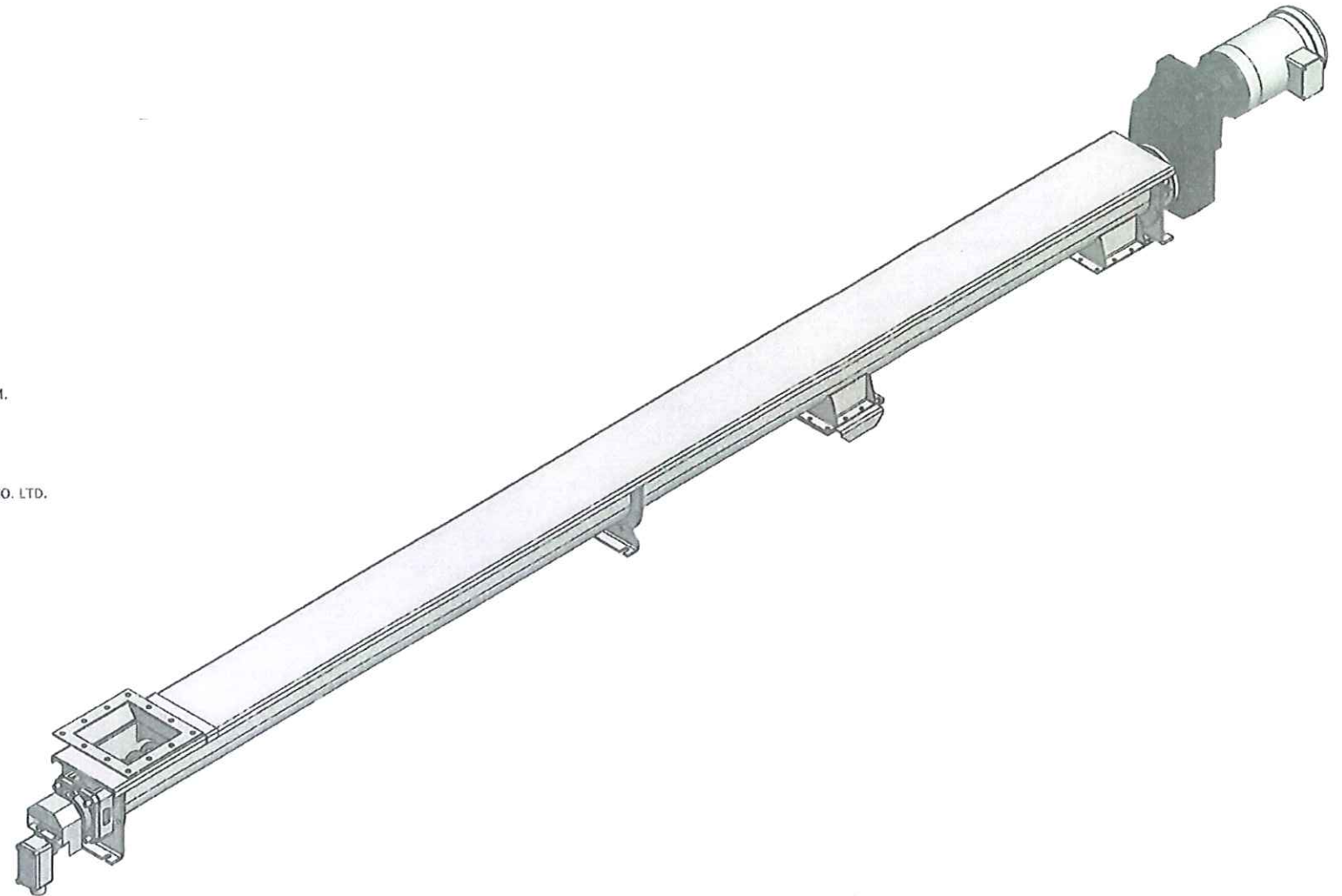



GENERAL NOTES:

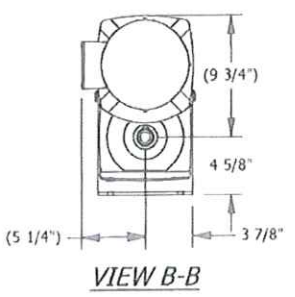
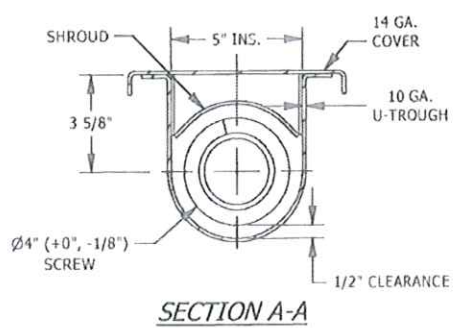
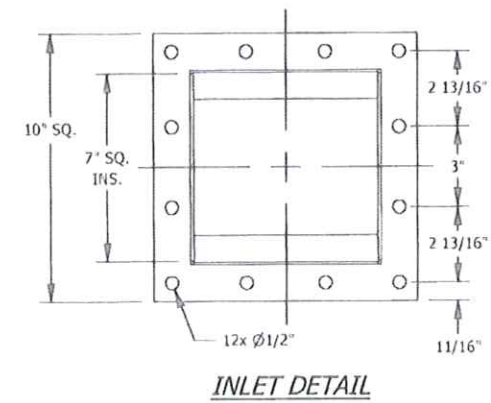
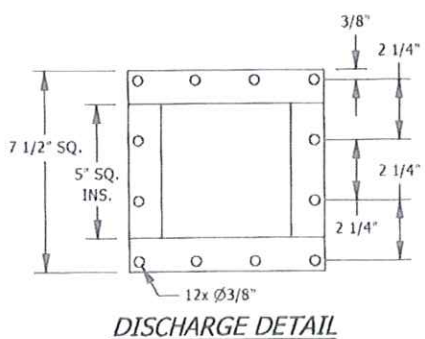
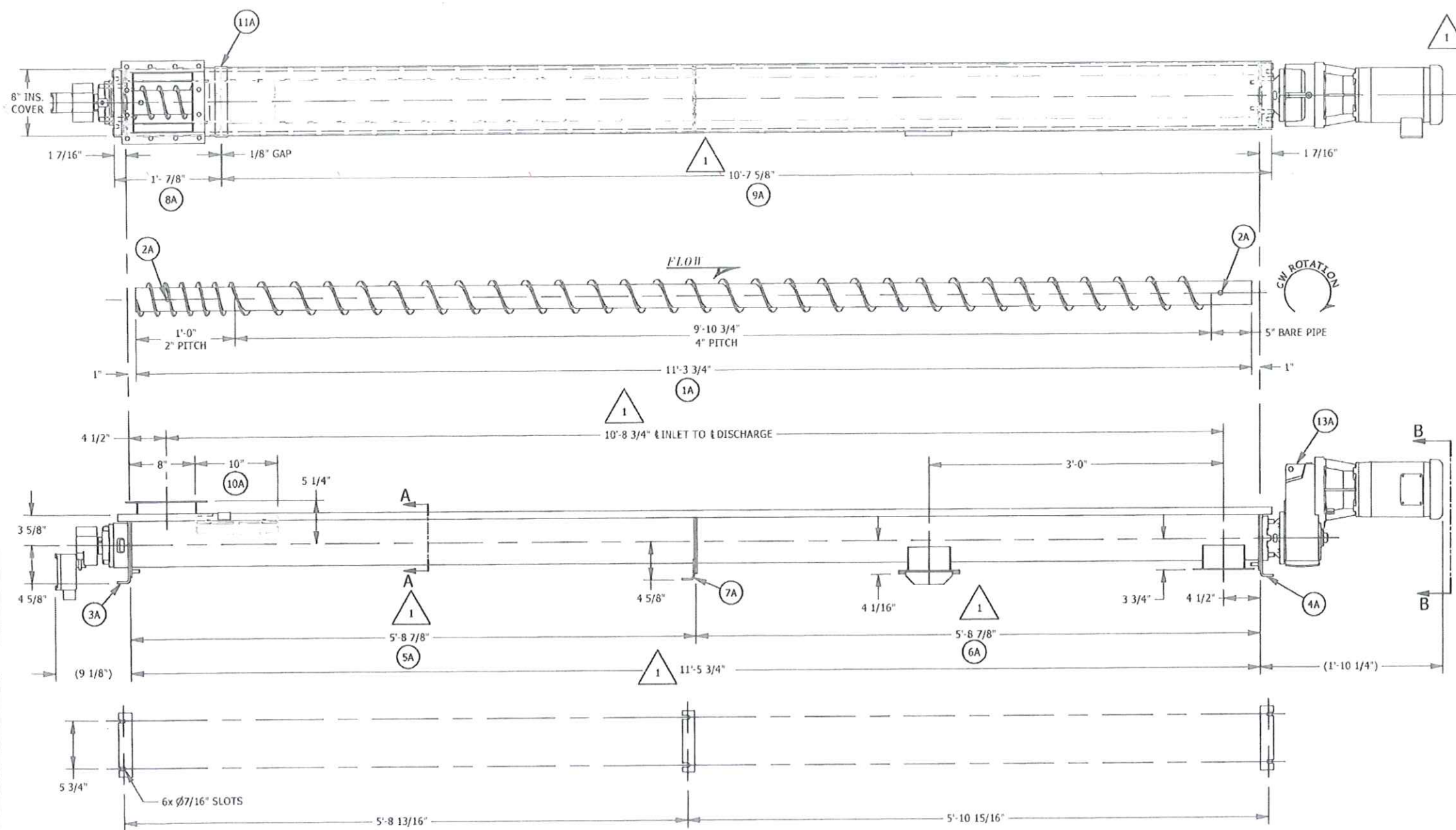
- 1- SHOP ASSEMBLED; MATCH MARK AND KNOCK DOWN ONLY AS REQUIRED TO SHIP.
- 2- FINISH REQUIREMENTS:
 - A- SCREW ASSEMBLY: KWS INDUSTRIAL FINISH 1
WELD: WELD SPATTER AND SLAG REMOVED, 40-50 GRIT FINISH, PITS AND CREVICES PERMISSIBLE (CEMA II)
FLIGHT SURFACE: MILL FINISH, NO GRINDING ON STEEL SURFACES
PIPE: MILL FINISH, NO GRINDING ON STEEL SURFACES
BEAD BLAST SCREW ASSEMBLY TO UNIFORM FINISH
 - B- TROUGH ASSEMBLY: INTERIOR AND EXTERIOR. KWS INDUSTRIAL FINISH 1T
WELD: SPATTER AND SLAG REMOVED, 40-50 GRIT FINISH, PITS AND CREVICES PERMISSIBLE (CEMA II)
TROUGH SURFACE: MILL FINISH, NO GRINDING ON STEEL SURFACES
- 3- PAINT AS FOLLOWS: UNPAINTED EXTERIOR CARBON STEEL SURFACES ONLY
 - A- SURFACE PREPARATION: HAND TOOL CLEAN PER SSPC-SP2
 - B- FINISH COAT: KWS GREY ENAMEL, 2-3 MILS MINIMUM DFT
 - C- ALL BEARINGS, SEALS, DRIVE COMPONENTS AND OTHER PURCHASED COMPONENTS WILL BE FURNISHED WITH MANUFACTURERS STANDARD PAINT SYSTEM. SAFETY GUARDS TO BE SAFETY YELLOW.
- 4- DO NOT PAINT SCREWS.
- 5- DESIGN PARAMETERS:
 - A- DESIGN TEMPERATURE: OTHER: 200° F MAX.
 - B- DESIGN PRESSURE: ATMOSPHERIC
- 6- TAG AS FOLLOWS:
 - A- TAG: 4IN. X 6IN X 1/32IN THK ALUMINUM
 - B- LOCATION: AT DRIVE END IN CLEARLY VISIBLE LOCATION
 - C- LETTERING: 3/16 IN. MINIMUM HEIGHT
 - D- INFORMATION: KWS STANDARD
- 7- EQUIPMENT SUPPLIED BY KWS MEETS ALL APPLICABLE OSHA REQUIREMENTS. THE OWNER OR END USER IS RESPONSIBLE FOR PROVIDING PROPER GUARDING OF ROTATING SHAFTS IN THEIR FACILITY BASED ON THE LOCATION OF THE EQUIPMENT AND THE POTENTIAL FOR A HAZARD.
- 8- THE GEAR REDUCER BREATHERS MUST BE CHECKED IN THE FIELD AFTER INSTALLATION FOR PROPER ORIENTATION AND OPERATION. THE BREATHER ACTS AS A CHECK-VALVE TO ALLOW THE REDUCER TO DISSIPATE INTERNAL PRESSURE AND SHOULD BE LOCATED ON THE TOP OF THE REDUCER. ANY BLOCKAGE OF THE BREATHER MUST BE REMOVED BEFORE OPERATING THE EQUIPMENT.
- 9- THIS EQUIPMENT IS BEING SHIPPED WITHOUT OIL IN THE DRIVE REDUCER. IT IS THE RESPONSIBILITY OF THE CUSTOMER TO ADD PROPER LUBRICATION PRIOR TO THE OPERATION OF THIS EQUIPMENT.
- 10- EQUIPMENT IS DESIGNED TO START UNDER UPSET CONDITIONS (100% TROUGH LOADING). DELIVERY RATE UNDER UPSET CONDITIONS WILL BE 6.8 CFH. AT 17 RPM.
- 11- FEEDER ASSEMBLY IS SIZED TO HANDLE A MAXIMUM MATERIAL HEAD LOAD OF 10 FT.
- 12- AC VARIABLE FREQUENCY DRIVE (VFD) TO BE SUPPLIED BY OTHERS. VFD MUST BE SIZED FOR AT LEAST 2 TIMES FULL-LOAD AMPS OF MOTOR TO ALLOW FOR HIGH INRUSH OF CURRENT DURING SCREW FEEDER STARTING. VFD MUST BE PROGRAMMED FOR FULL TORQUE WITH LEAST AMOUNT OF DELAY AT START UP. VFD SOFT-START FEATURE MUST BE DISABLED. PLEASE REFER TO CEMA ENGINEERING STANDARD 351-2007. FOR MORE INFORMATION CONTACT KWS MANUFACTURING CO. LTD.



FULL RELEASE 1/29/13

TAG#: PROJECT #81822			KWS MANUFACTURING CO., LTD. 3041 CONVEYOR DRIVE BURLESON, TX 76028 Phone: (817) 295-2247 Fax: (817) 447-8528 Website: www.kwsmf.com Email: sales@kwsmf.com			
WEIGHT: 400 LBS.			4" DIA. SCREW FEEDER GENERAL NOTES			
CUSTOMER	SHIP TO:	DESIGNER	P.M.	CHECKED BY	CREATION DATE	DRAWING NO.
STEDMAN MACHINE COMPANY INNOVATIVE PROCESSING SOLUTION 129 FRANKLIN ST. AURORA, IN 47001	T.B.D.	JDC	DE	[Signature]	11/7/2012	0086424-A1

106967



Parts List			
ITEM	QTY	*	DESCRIPTION
A	ONE		4" DIA. X 11'-5 3/4" LG. SCREW FEEDER TO METER 5 CFH OF 43.7 PCF FLOOD FED PREGELATINIZED CORN STARCH AT APPROXIMATELY 95% TROUGH LOADING. SHOP ASSEMBLED AND CONSISTING OF:
1A	1		SPL, 4" (+0", -1/8") DIA. X 3/16" THK. (304SS) X VARIABLE PITCH X 11'-3 3/4" LG. RIGHT HAND, HELICOID SCREW (PURCHASED FLIGHTING), SKIP WELDED TO A 2 1/2" SCH 40 PIPE (304SS). FIRST 1'-0" TO BE 2" PITCH. FOLLOWED BY 9'-10 3/4" OF 4" PITCH. BUSHED AND DRILLED BOTH ENDS FOR A 1 1/2" DIA. 2-BOLT COUPLING. DISCHARGE END TO HAVE 5" OF BARE PIPE.
2A	4		CB112-212, 1/2" DIA. X 3 1/2" LG. (C.S.) (GRADE 5) COUPLING BOLT AND LOCKNUT.
3A	1		TEFO4112U-SWPSBB-T250, 4" DIA. X 1 1/2" DIA. X 1/4" THK. (C.S.) U-TROUGH END STUDDED FOR SEAL AND BEARING AND WITH FOOT, FITTED WITH:
	1		WPS112-L, 1 1/2" DIA. (C.S.) WASTE PACK SEAL WITH LIP SEAL AND WASTE PACKING.
	1	*	EBF112-BB, 1 1/2" DIA. BALL BEARING FLANGE UNIT.
	1		ES112-BB-WPS, 1 1/2" DIA. X 10 1/2" LG. (C-1045) 2-BOLT END SHAFT DRILL & TAP 10-32 UNF X 1/2" DEEP FOR SPEED SWITCH.
	1		SCP2000, ELECTRO SENSOR/ZERO SPEED SWITCH, NEMA 7 & 9, RATED FOR CLASS 1, DIV. 2, GROUP C & CLASS 2, DIV. 2, GROUP F W/ MOUNTING PLT.
4A	1		TEFO4112U-S-T250, 4" DIA. X 1 1/2" DIA. X 1/4" THK. (C.S.) U-TROUGH END WITH FOOT, FITTED WITH: (STUDDER FOR SCREW CONVEYOR DRIVE.)
5A	1		TUF410, 4" DIA. X 10GA. (C.S.) X 5'-8 7/8" LG. FORMED FLANGE U-TROUGH WITH 3/16" THK. (C.S.) PLATE END FLANGES.
6A	1		TUF410, 4" DIA. X 10GA. (C.S.) X 5'-8 7/8" LG. FORMED FLANGE U-TROUGH WITH 3/16" THK. (C.S.) PLATE END FLANGES. FITTED WITH:
	1		DSP4GAUP-TGA-HS, 5" INS. SQ. X 12 GA. DISCHARGE SPOUT WITH HAND SLIDE.
	1		DSP4GAUP-TGA, 5" INS. SQ. X 12 GA. DISCHARGE SPOUT.
7A	1		FT4, 4" X 3/16" THK. (C.S.) FLANGED FOOT.
8A	1		COV410U-FL, 4" X 10GA. (C.S.) X 1'-0 7/8" LG. FLANGED COVER FOR U-TROUGH BOLTED ON APPROX. 6 CENTERS.
	1		SPL, 7" X 5" X 10 GA. (C.S.) INLET TRANSITION (PER DETAIL).
9A	1		COV414U-FL, 4" X 14GA. (C.S.) X 10'-7 5/8" LG. FLANGED COVER FOR U-TROUGH BOLTED ON APPROX. 12" CENTERS.
10A	1		COV4GAU-SH, 4" X 12 GA. (C.S.) X 10" LG. SHROUD WITH BATTEN BAR.
11A	1		BBS414, 4" X 14GA. (C.S.) X 1 1/2" WIDE BOLTED BUTTSTRAP FOR U-TROUGH
12A	LOT		3/16" THK. NITRILE BLEND (IV1) COVER GASKET, SILICONE FOR FLANGE GASKET, AND ZINC PLATED CARBON STEEL ASSEMBLY BOLTS.
13A	ONE		3/4 HP 17 RPM CLASS II SCREW CONVEYOR DRIVE MOUNTED @ 12 O'CLOCK BY KWS AND CONSISTING OF:
	1		SK2282SCP-80LH/4 CLASS II REDUCER WITH C-FACE ADAPTOR 56 TC, RATIO 109.8:1, POSITION M1, WITH 1.4375" DIA HOLLOW BORE, SCREW CONVEYOR ADAPTER, FIXING ELEMENT, SHAFT KEYS AND WITH 1 1/2" DIA. DRIVE SHAFT.
	1		3/4 HP 1750 RPM 3/60/230-460V C-FACE MOTOR 56TC MOTOR WITH EXPLOSION PROOF AND INVERTER DUTY (20:1 TURNDOWN) CLASS II DIVISION II GROUP F
		*	ASTERISK DENOTES RECOMMENDED SPARE PARTS

REFERENCE DRAWING 0086424-A1 FOR GENERAL NOTES

TAG#: L-503 PROJECT #81822	SHIP TO: T.B.D.
WEIGHT: 400 LBS.	
CUSTOMER STEDMAN MACHINE COMPANY INNOVATIVE PROCESSING SOLUTION 129 FRANKLIN ST. AURORA, IN 47001	

KWS Design Engineering Manufacturing

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BURLESON, TX 76028
Phone: (817) 295-2247
Fax: (817) 447-8528
Website: www.kwsmf.com
Email: sales@kwsmf.com

4" DIA. SCREW FEEDER

FULL RELEASE 1/29/13

REV	DATE	DESIGNER	DESCRIPTION
1	1/28/13	DLE	CHANGES PER CUSTOMER APPROVAL
			REVISIONS

DESIGNER JDC	P.A.L. DE	CHECKED BY E	CREATION DATE 11/7/2012	DRAWING NO. 0086424-A
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#106967