

PIDE Professional Design Engineers
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May 20, 2016

Dakota Plains Ag Center 41055 282nd St. Parkston, SD 57366

Re:

Dakota Plains AG Facility

Utica, SD

Sirs,

Please see our responses below to the questions in the Interrogatories and Requests that you provided us dated May 13th, 2016.

- 2906.5HP, 2,280KW 5.a. 504.07KW
- 5.b 473.71KW 5.c
- 444.47KW 5.d. 582.63KW
- 5.e. 158.9KW
- 5.f. 4.48KW
- 5.g. 49.74KW, Maint. Bldg. – 10.5KW, Office/Scale House – 42KW
- 6.a. 481.69KW
- 6.b 468.11KW
- 6.c 426.68KW
- 6.d. 578.15KW
- 6.e. 158.19KW
- 6.f. 4.48KW
- 6.g. 49.74KW, Maint. Bldg. – 8KW, Office/Scale House – 25KW
- The electrical loads and controls system were reviewed. We determined that there are loads that are interlocked so that they cannot be operated together and these were removed for items 6.a. thru 6.f.. The design of the facility is such that it is capable of operating at full capacity to maximize the intake, processing shipping of grain. There a multitude of variables that make it impossible to determine an accurate demand beyond a full load condition. The maintenance

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building and the office/scale house loads were diversified as allowed by the national electrical code.

- 8. There are some motorized gates that are interlocked so that only one gate can be operated at once time. These are the loads that were removed from the totals listed in #5 and listed in #6.
- 9. It is our opinion that trying to determine electrical demands on a monthly basis would not be practical as there are too many variables to provide you with an accurate demand over the course of a year.
- 10. See answer in #9.
- 11. See answer in #9.

We do not have the information to respond to answers to #12 thru #15.

If questions, please feel free to contact me (605) 941-3337.

Sincerely,

Dan E. Mutschelknaus, P.E. Professional Design Engineers

PRELIMINARY MOTOR AND DEVICE LIST Owner: Dakota Plains Ag Center, LLC Location: Utica, SD **Project Number** Date: December 4, 2015 Revision: N REV DESCRIPTION- Concrete 6-pack, (4) Interstice Bins Rev. MANUFACTU P.O SUPPLYOUTPUT 1/10 CFM on concrete 6-pack & 1 Ground Pile & a MODEL No. & SIZE NUMBER QTY DESIGN/ CAPACITY/ CONSTRUCTION HP Del 8 PREFIX -RER VOLTS SIGNAL NO 10.000 BPH dryer system Add **RECEIVING & DISTRIBUTION** Capacities listed are based upon Whole Grains up to 60 lbs/bu SYSTEM TRUCK RECEIVING PIT #1 - 40,000 BPH Truck Receiving pit grate, 12'-0" wide x 26'-0' long SB - 101A Carbon steel construction, painted grate. Dust baffles below receiving grate. Rail Reveiving pit grate, 3'-6" wide x 4'-0' long grate. SB 101B Carbon steel construction, painted 40,000 BPH, 650 FPM max, Drive Shaft 165.52 RPM, single Falk 5207JR09 Truck & Rail Receiving & Ground Pile Transfer Belt HiRoller Model 42 HiLife Class 2 HTD reducer Belt drive at head, Manual take-up at tail, conveyor is BC 101 Conveyor horizontal. Premium efficient motor, 1750 RPM, EXP with 1.15 SF. 440V/3PH/60HZ, Electric motor for belt HiRoller 30.0 BC - 101.01 suitable for Class II Group G Div I area classification, located at head. Gate is operated with an electric XP actuator. HD dust-tight construction w/ 11'-0" long x 3'-2" wide Electric proportioning ladder gate for Truck Rec'g Pit HiRoller cam followers and lined through out with 1/4" thick ceramic liner. Full open & FPG - 101.10 ladder gate full closed gate operation as well as metering control with potentiometer. XV - 101.11 HiRoller Linear Actuator 230/460V/3PH 1.0 1 Electric Actuator ZSC HiRoller 101.12 1 Position Switch Closed Model 11 Go Switch ZSO 101.13 1 Position Switch Open HiRoller Model 11 Go Switch HiRoller Model 11 Go Switch ZSC - 101.14 1 Position Switch Closed Position Switch Open HiRoller Model 11 ZSO 101.15 1 Go Switch 4-20 ma ZT 1 HiRoller 101.16 % Meter Potentiomete XV - 101.30 1 Actuator for two-way head discharge HiRoller Linear Actuator 230/460V/3PH 10 ZSC - 101.31 Position Switch Closed HiRoller Model 11 Go Switch 1 HiRoller Model 11 ZSO - 101.32 Position Switch Open Go Switch - 101.33 1 Position Switch Closed HiRoller Model 11 ZSC Go Switch ZSO 101.34 1 Position Switch Open HiRoller Model 11 Go Switch TE - 101.40 1 Bearing temp sensor on Tail pulley bearing By Electrician NEMA 9 TE - 101.41 1 Bearing temp sensor on Tail pulley bearing By Electrician NEMA 9 TE - 101.42 1 Bearing temp sensor on Head pulley bearing By Electrician NEMA 9 TE - 101.43 1 Bearing temp sensor on Head pulley bearing By Electrician NFMA 9 NEMA 9 BAS 101.50 1 Belt alignment sensor at Tail By Electrician BAS 101.51 Belt alignment sensor at Tail By Electrician NEMA 9 - 101.52 1 By Electrician NFMA 9 BAS Belt alignment sensor at Head By Electrician NEMA 9 BAS -101.53 Belt alignment sensor at Head 1 SSL - 101.60 Motion Sensor at Tail Shaft By Electrician NEMA 9 Motion sensor on boot shaft for HOA SSL - 101.61 1 By Electrician NFMA 9 101.70 Discharge Pressure Plug Switch HiRoller Binatrol Model GX LSH Plug Switch located in discharge head section - 101.71 Discharge Pressure Plug Switch HiRoller Binatrol Model GX LSH Plug Switch located in discharge head section CT - 101.80 1 Current Transformer By Electrician 4-20mA TRUCK RECEIVING PIT #2 - 20,000 BPH Truck Receiving pit grate, 12'-0" wide x 26'-0' long HCC SB - 200 1 Carbon steel construction, painted grate. Dust baffles below receiving grate. 20,000 BPH, 700 FPM max, Drive Shaft 178.25 RPM, single Falk 5203JR09

Model 30 HiRoller

Class 2 HTD reducer Belt drive at head, Manual take-up at tail, conveyor is horizontal.

Premium efficient motor, 1750 RPM, EXP with 1.15 SF, 440V/3PH/60HZ,

suitable for Class II Group G Div I area classification, located at head.

20.0

HiRoller

HiRoller

201

BC

201.01

Truck Receiving Belt Conveyor

Electric motor for belt

Owner: Dakota Plains Ag Center, LLC

Location: Utica, SD

Project Number

Date: December 4, 2015

					the state of the second second second second			Revision	, N		
Del &	REV NO.	PREFIX - NUM	MBER	QTY	DESCRIPTION- Concrete 6-pack, (4) Interstice Bins 1/10 CFM on concrete 6-pack & 1 Ground Pile & a 10,000 BPH dryer system	MANUFACTU RER	P.O .#	MODEL No. & SIZE	DESIGN/ CAPACITY/ CONSTRUCTION	НР	OUTPUT
		EPG - 201.	.10	1	Electric proportioning ladder gate for Truck Rec'g Pit	HiRoller		11'-0" long x 3'-2" wide ladder gate	Gate is operated with an electric XP actuator. HD dust-tight construction w/ cam followers and lined through out with 1/4" thick ceramic liner. Full open & full closed gate operation as well as metering control with potentiometer.		
		XV - 201.		1	Electric Actuator	HiRoller		Linear Actuator	230/460V/3PH	1.0	
Rev	N	ZSC - 201.		1	Position Switch Closed	HiRoller		Model 11	Go Switch		
Rev	N	ZSO - 201.		1	Position Switch Open	HiRoller		Model 11	Go Switch		
Add	N	ZSC - 201.		1	Position Switch Closed	HiRoller		Model 11	Go Switch		
Add	N	ZSO - 201.		1	Position Switch Open	HiRoller		Model 11	Go Switch		
		ZT - 201.		1	% Meter	HiRoller			Potentiometer	NEW STR	4-20 ma
		XV - 201.		1	Actuator for two-way head discharge	HiRoller		Linear Actuator	230/460V/3PH	1.0	
Rev	N	ZSC - 201.	.31	1	Position Switch Closed	HiRoller		Model 11	Go Switch		
Rev	N	ZSO - 201.	.32	1	Position Switch Open	HiRoller		Model 11	Go Switch		
Rev	N	ZSC - 201.	.33	1	Position Switch Closed	HiRoller		Model 11	Go Switch		
Rev	N	ZSO - 201.	.34	1	Position Switch Open	HiRoller		Model 11	Go Switch		
		TE - 201.	.40	1	Bearing temp sensor on Tail pulley bearing	By Electrician			NEMA 9	THE DESIGNATION OF THE PERSON	
		TE - 201.	.41	1	Bearing temp sensor on Tail pulley bearing	By Electrician			NEMA 9		
		TE - 201.	.42	1	Bearing temp sensor on Head pulley bearing	By Electrician			NEMA 9		
		TE - 201.	.43	1	Bearing temp sensor on Head pulley bearing	By Electrician			NEMA 9		
		BAS - 201.	.50	1	Belt alignment sensor at Tail	By Electrician			NEMA 9		
		BAS - 201.	.51	1	Belt alignment sensor at Tail	By Electrician			NEMA 9		
		BAS - 201.		1	Belt alignment sensor at Head	By Electrician			NEMA 9	EVERITOR	
		BAS - 201.		1	Belt alignment sensor at Head	By Electrician			NEMA 9		
		SSL - 201.		1	Motion Sensor at Tail Shaft	By Electrician			NEMA 9		
	\neg	SSL - 201.		1	Motion sensor on boot shaft for HOA	By Electrician			NEMA 9		
	\neg	LSH - 201.		1	Discharge Pressure Plug Switch	HiRoller		Binatrol Model GX	Plug Switch located in discharge head section	10.45	
	\neg	LSH - 201.		1	Discharge Pressure Plug Switch	HiRoller		Binatrol Model GX	Plug Switch located in discharge head section	THE ROTTERS	
	\neg	CT - 201.		1	Current Transformer	By Electrician				VALUE OF STREET	4-20mA
		BE - 202		1	Receiving Bucket Elevator	Intersystems		GE4838	20,000 BPH, 683 FPM max, 53.2 RPM, Class V Falk M155VR3-A-32.584:1 drive at head, screw take-up at boot, shovel pockets, inlet, boot & head section lined w/ 1/4" ceramic,explosion panels, 48" dia. pulleys & mechanical belt splice. R&P Cleanout Gates in boot section. Designed for Whole Grains.		
		BE - 202.	200	1	Electric Motor for Bucket Elevator	нсс			Premium efficent motor, 1750 RPM, TEFC with 1.15 SF. 460V/3PH/60HZ, located at head.	200.0	
		TE - 202.		1	Bearing temp sensor on Boot pulley bearing	By Electrician			NEMA 9		
		TE - 202.	.11	1	Bearing temp sensor on Boot pulley bearing	By Electrician			NEMA 9		
		TE 202.		1	Bearing temp sensor on Head pulley bearing	By Electrician			NEMA 9		
		TE - 202.		1	Bearing temp sensor on Head pulley bearing	By Electrician			NEMA 9	A STATE OF	
Rev	N	BAS - 202.		1	Belt alignment sensor at Boot Upside	By Electrician			NEMA 9	Section 1	
Rev	N	BAS - 202.		1	Belt alignment sensor at Boot Upside	By Electrician			NEMA 9		
Add	N	BAS - 202.		1	Belt alignment sensor at Boot Downside	By Electrician			NEMA 9		
Add	N	BAS - 202.		1	Belt alignment sensor at Boot Downside	By Electrician			NEMA 9		
Rev	N	BAS - 202.		1	Belt alignment sensor at Head Upside	By Electrician			NEMA 9		
Rev	N	BAS - 202.		1	Belt alignment sensor at Head Upside	By Electrician			NEMA 9	1200000	
Add	N	BAS - 202.	.26	1	Belt alignment sensor at Head Downside	By Electrician			NEMA 9	The same of the sa	
Add	N	BAS - 202.		1	Belt alignment sensor at Head Downside	By Electrician			NEMA 9		
		SSL - 202.	.30	1	Motion sensor on boot shaft	By Electrician			NEMA 9		
		LSH - 202	.40	1	Discharge plug sensor	Intersystems		BinMaster 65DFHT DBDT	Plug Switch located in discharge spout	STEEL STEEL	
Rev	N	MG - 202	.50	1	Manual Magnet with Position Open Switch	Intersystems		SMC06-29"		Wall Market	
Add	N	ZSC - 202		1	Position Switch Closed	Intersystems			NEMA 9 Limit Switch		
Rev	N	ZSO - 202		1	Position Switch Open	Intersystems			NEMA 9 Limit Switch		
		CT - 202		1	Current Transformer	By Electrician					4-20mA
milené			0.000							TO THE	
Rev	N	EOV - 203		1	Electric Two-Way Slide Gate Valve	нсс		18" sq. 'K' style, 45 deg.	20,000 BPH, Each gate is operated with an electric actuator. HD dust-tight construction w/ cam followers and lined through out with 1/4" thick Ceramic liner. Full open & full closed gate operation.		
Rev	N	XV - 203.		1	Electric Andco Actuator	HCC	-	Linear Actuator	230/460V/3PH	1.0	
Rev	N	ZSC - 203.	.11	1	Position Switch Closed	HCC			Go Switch	209 (V-1)	

Owner: Dakota Plains Ag Center, LLC

Location: Utica, SD

Project Number

Date: December 4, 2015

Rev, Del & NO. Rev N Add N Rev N Rev N		- NU	MBER		DESCRIPTION- Concrete 6-pack, (4) Interstice Bins							
Rev N	750		MBER	QTY	1/10 CFM on concrete 6-pack & 1 Ground Pile & a 10,000 BPH dryer system	MANUFACTU RER	P.O . #	MODEL No. & SIZE	DESIGN/ CAPACITY/ CONSTRUCTION	HP		OUTPUT SIGNAL
Rev N		- 203	3.12	1	Position Switch Open	HCC			Go Switch			
	XV	- 203	3.13	1	Electric Andco Actuator	HCC		Linear Actuator	230/460V/3PH	1.0		
Rev N	ZSC	- 203	3.14	1	Position Switch Closed	HCC			Go Switch			
CEST USIN	ZSO	- 203	3.15	1	Position Switch Open	HCC			Go Switch			
	E STATE	and the	SILTER	San Shift		The state of					医 图标题	BUREN
Rev N	EOV	- 204	4	1	Electric Two-Way Slide Gate Valve	нсс		18" sq. 'K' style, 45 deg.	20,000 BPH, Each gate is operated with an electric actuator. HD dust-tight construction w/ cam followers and lined through out with 1/4" thick Ceramic liner. Full open & full closed gate operation.			
Rev N	XV	- 204	4.10	1	Electric Andco Actuator	HCC		Linear Actuator	230/460V/3PH	1.0		
Rev N	ZSC	- 204	4.11	1	Position Switch Closed	HCC			Go Switch			
Rev N	ZSO	- 204	4.12	1	Position Switch Open	HCC			Go Switch	A Short		
Add N	XV	- 204	4.13		Electric Andco Actuator	HCC		Linear Actuator	230/460V/3PH	1.0		
Rev N	ZSC		4.14	1	Position Switch Closed	HCC			Go Switch			
Rev N	ZSO		4.15	1	Position Switch Open	HCC			Go Switch			
1,01	200		1.10		Total Control		1000			The second	R SURVEY	1000
Add N	EOV	- 205		1	Electric Two-Way Slide Gate Valve	нсс		18" sq. 'K' style, 45 deg.	20,000 BPH, Each gate is operated with an electric actuator. HD dust-tight construction w/ cam followers and lined through out with 1/4" thick Ceramic liner. Full open & full closed gate operation.			
Add N	XV		5.10	1	Electric Andco Actuator	HCC		Linear Actuator	230/460V/3PH	1.0		
Add N	ZSC	- 205	5.11	1	Position Switch Closed	HCC			Go Switch			
Add N	ZSO	- 205	5.12	1	Position Switch Open	HCC			Go Switch			
Add N	XV	- 205	5.13		Electric Andco Actuator	HCC		Linear Actuator	230/460V/3PH	1.0		
Add N	ZSC	- 205	5.14	1	Position Switch Closed	HCC			Go Switch	State Williams		
Add N	ZSO		5.15	1	Position Switch Open	HCC			Go Switch			
COLUMN TOWNS				Description of the last			1500				No. of the last of	12000
	SP	- 206	6	1	Drag Scalper ·	Ferrell-Ross		Model FMDS-6025	20,000 BPH, Designed for Whole Grains,	Sec. 1-15		
									Premium efficent motor, 1750 RPM, TEFC with 1.15 SF. 460V/3PH/60HZ,	The Later		
	SP	- 206	6.01	1	Electric Motor for Scalper	Ferrell-Ross			located at head.	10.0		
Rev N	EOV	- 207			Electric Two-Way Slide Gate Valve	нсс		18" sq. 'K' style, 45 deg.	20,000 BPH, Each gate is operated with an electric actuator. HD dust-tight construction w/ cam followers and lined through out with 1/4" thick Ceramic liner. Full open & full closed gate operation.			
Rev N	XV		7.10	1	Electric Andco Actuator	HCC	_	Linear Actuator	230/460V/3PH	1.0		
Rev N	ZSC		7.11	1	Position Switch Closed	HCC			Go Switch			
Rev N	ZSO		7.12	1	Position Switch Open	HCC			Go Switch			
Add N	XV		7.13		Electric Andco Actuator	HCC		Linear Actuator	230/460V/3PH	1.0		
Rev N	ZSC		7.14	1	Position Switch Closed	HCC			Go Switch	A HOLE		
Rev N	ZSO	- 207	7.15	1	Position Switch Open	HCC			Go Switch			
	DC	- 20	8	1	Concrete Silos Distribution Drag Conveyor	Intersystems		EMC2526-P	20,000 BPH, 137 FPM max, final drive RPM 26.73, single Falk 5507J Class 2 HTD Belt drive at head, Manual take-up at tail, designed for whole grains, conveyor is horizontal			
	DC	- 208	8.01	1	Electric motor for conveyor	нсс			Premium efficient motor, 1750 RPM, XP with 1.15 SF. 480V/3PH/60HZ, located at head.	50.0		
	EG		8.05	1	Electric gate for Head Discharge	Intersystems		_	Gate is operated with an electric motor. HD dust-tight construction w/ cam followers and lined through out with 1/4" thick AR liner. Full open & full closed gate operation.			
	XV	- 208	8.06	1	Electric motor	Intersystems			230/460V/3PH	0.3		
	ZSC	- 208	8.07	1	Position Switch Closed	Intersystems			Limit Switch	THE REAL PROPERTY.		
	ZSO		8.08	1	Position Switch Open	Intersystems			Limit Switch			
	TE		8.10	1	Bearing temp sensor on Head bearing	By Electrician			NEMA 9			
	TE		8.11	1	Bearing temp sensor on Head bearing	By Electrician			NEMA 9	(10)11		
	TE		8.12	1	Bearing temp sensor on Tail bearing	By Electrician			NEMA 9	I THE PERSON		
	TE		8.13	1	Bearing temp sensor on Tail bearing	By Electrician	-		NEMA 9	4		
Rev N	LSH		8.14	1	Plug switch on Head section	Intersystems	1		Go Switch			
	SSL		8.15	1	Motion Sensor at Tail Shaft	By Electrician	1		NEMA 9			
	TS		8.16	1	Slack chain detector switch	Intersystems	1		NEMA 9	STATE OF THE STATE		
	CT		8.17	1	Current Transformer	By Electrician	\vdash		THE THE TOTAL CONTRACT OF THE TOTAL CONTRACT	No. of Parties	_	4-20mA

Owner: Dakota Plains Ag Center, LLC

Location: Utica, SD

Project Number

Date: December 4, 2015

									938809 000-0-0-20				
Rev, RE Del & . Add No	.	PREFIX	-	NUMBER	QTY	DESCRIPTION- Concrete 6-pack, (4) Interstice Bins 1/10 CFM on concrete 6-pack & 1 Ground Pile & a 10,000 BPH dryer system	MANUFACTU RER	P.C	MODEL No. & SIZE	DESIGN/ CAPACITY/ CONSTRUCTION	НР		OUTPU SIGNAL
		EG	-	208.20	1	Electric gate for Intermediate Discharge	Intersystems			Gate is operated with an electric motor. HD dust-tight construction w/ cam followers and lined through out with 1/4" thick AR liner. Full open & full closed gate operation.			
		XV	-	208.21	1	Electric motor	Intersystems			230/460V/3PH	0.3		
		ZSC	-	208.22	1	Position Switch Closed	Intersystems			Limit Switch			
		ZSO	-	208.23	1	Position Switch Open	Intersystems			Limit Switch	TO VILLE		
		EG	-	208.30	1	Electric gate for Intermediate Discharge	Intersystems			Gate is operated with an electric motor. HD dust-tight construction w/ cam followers and lined through out with 1/4" thick AR liner. Full open & full closed gate operation.			
		XV	-	208.31	1	Electric motor	Intersystems			230/460V/3PH	0.3		
		ZSC	-	208.32	1	Position Switch Closed	Intersystems			Limit Switch			
		ZSO	-	208.33	1	Position Switch Open	Intersystems			Limit Switch	6.Depth		
		EG	-	208.40	1	Electric gate for Intermediate Discharge	Intersystems			Gate is operated with an electric motor. HD dust-tight construction w/ cam followers and lined through out with 1/4" thick AR liner. Full open & full closed gate operation.			
		XV	-	208.41	1	Electric motor	Intersystems			230/460V/3PH	0.3		
		ZSC	-	208.42	1	Position Switch Closed	Intersystems			Limit Switch			
			-	208.43	1	Position Switch Open	Intersystems			Limit Switch			
		EG	-	208.50	1	Electric gate for Intermediate Discharge	Intersystems			Gate is operated with an electric motor. HD dust-tight construction w/ cam followers and lined through out with 1/4" thick AR liner. Full open & full closed gate operation.			
		XV	-	208.51	1	Electric motor	Intersystems			230/460V/3PH	0.3		
			-	208.52	1	Position Switch Closed	Intersystems			Limit Switch			
		ZSO	-	208.53	1	Position Switch Open	Intersystems			Limit Switch			
			-	208.60	1	Electric gate for Intermediate Discharge	Intersystems			Gate is operated with an electric motor. HD dust-tight construction w/ cam followers and lined through out with 1/4" thick AR liner. Full open & full closed gate operation.			
		XV	-	208.61	1	Electric motor	Intersystems			230/460V/3PH	0.3		
		ZSC	-	208.62	1	Position Switch Closed	Intersystems			Limit Switch			
		ZSO	-	208.63	1	Position Switch Open	Intersystems			Limit Switch	district the		
		EG	-	208.70	1	Electric gate for Intermediate Discharge	Intersystems			Gate is operated with an electric motor. HD dust-tight construction w/ cam followers and lined through out with 1/4" thick AR liner. Full open & full closed gate operation.			
		XV	-	208.71	1	Electric motor	Intersystems			230/460V/3PH	0.3		
		ZSC	-	208.72	1	Position Switch Closed	Intersystems			Limit Switch			
		ZSO	-	208.73	1	Position Switch Open	Intersystems			Limit Switch	E dink		
			•	208.80	1	Electric gate for Intermediate Discharge	Intersystems			Gate is operated with an electric motor. HD dust-tight construction w/ cam followers and lined through out with 1/4" thick AR liner. Full open & full closed gate operation.			
			-	208.81	1	Electric motor	Intersystems	1		230/460V/3PH	0.3		
			-	208.82	1	Position Switch Closed	Intersystems	-	-	Limit Switch			
		ZSO EG	-	208.83	1	Position Switch Open Electric gate for Intermediate Discharge	Intersystems Intersystems			Limit Switch Gate is operated with an electric motor. HD dust-tight construction w/ cam followers and lined through out with 1/4" thick AR liner. Full open & full closed gate operation.			
	-	XV	-	208.91	1	Electric motor	Intersystems			230/460V/3PH	0.3		
	\neg		-	208.92	1	Position Switch Closed	Intersystems	1		Limit Switch	0,0		
	\neg		-	208.93	1	Position Switch Open	Intersystems	1		Limit Switch			
		EG	-	208.95	1	Electric gate for Intermediate Discharge	Intersystems			Gate is operated with an electric motor. HD dust-tight construction w/ cam followers and lined through out with 1/4" thick AR liner. Full open & full closed gate operation.			
		XV	-	208.96	1	Electric motor	Intersystems			230/460V/3PH	0.3		
				208.97	1	Position Switch Closed	Intersystems			Limit Switch			
			-	208.98	1	Position Switch Open	Intersystems			Limit Switch			
TO THE		DIVALIE		THE STATE OF	E STATE				WILLIAM THE PARTY OF		AT MARKET NA	Tubba .	CONT. NO.
	\dashv					TRUCK RECEIVING PIT #3 - 20,000 BPH		F					
-	-				1	THE PROPERTY OF THE PROPERTY O		1	1				1
		н	-	300	1	Truck Receiving pit grate , 11'-0" wide x 26'-0' long grate. Dust baffles below receiving grate.				Carbon steel construction, painted			

Owner: Dakota Plains Ag Center, LLC

Location: Utica, SD

Project Number

Date: December 4, 2015

								Revision:	, N			
Del &	REV NO.	PREFIX -	NUMBER	QTY	DESCRIPTION- Concrete 6-pack, (4) Interstice Bins 1/10 CFM on concrete 6-pack & 1 Ground Pile & a 10,000 BPH dryer system	MANUFACTU RER	P.O .#	MODEL No. & SIZE	DESIGN/ CAPACITY/ CONSTRUCTION	НР		OUTPUT
	1											SIN 8 Y
		BC -	301	1	Truck Receiving Belt Conveyor	HiRoller		Model 30 HiRoller	20,000 BPH, 700 FPM max, Drive Shaft 178.25 RPM, single Falk 5115JR09 Class 2 HTD reducer Belt drive at head, Manual take-up at tail, conveyor is horizontal.			
		BC -	301.01	1	Electric motor for belt	HiRoller			Premium efficient motor, 1750 RPM, EXP with 1.15 SF. 440V/3PH/60HZ, suitable for Class II Group G Div I area classification, located at head.	15.0		
		EPG -	301.10	1	Electric proportioning ladder gate for Truck Rec'g Pit	HiRoller		11'-0" long x 3'-2" wide ladder gate	Gate is operated with an electric XP actuator. HD dust-tight construction w/ cam followers and lined through out with 1/4" thick ceramic liner. Full open & full closed gate operation as well as metering control with potentiometer.			
		XV -		1	Electric Actuator	HiRoller		Linear Actuator	230/460V/3PH	1.0		
Rev	N	ZSC -		1	Position Switch Closed	HiRoller		Model 11	Go Switch			
Rev	N	ZSO -		1	Position Switch Open	HiRoller		Model 11	Go Switch			
Add	N	ZSC -		1	Position Switch Closed	HiRoller		Model 11	Go Switch			
Add	N	ZSO -		1	Position Switch Open	HiRoller		Model 11	Go Switch			
		ZT -		1	% Meter	HiRoller			Potentiometer	PE STEELS		4-20 ma
		XV -		1	Actuator for two-way head discharge	HiRoller		Linear Actuator	230/460V/3PH	1.0		
Rev	N	ZSC -		1	Position Switch Closed	HiRoller	\vdash	Model 11	Go Switch			
Rev	N	ZSO -		1	Position Switch Open	HiRoller	Н	Model 11	Go Switch			
Rev	N	ZSC -		1	Position Switch Closed	HiRoller	Н	Model 11	Go Switch			
Rev	N	ZSO - TE -		1	Position Switch Open	HiRoller By Electrician	\vdash	Model 11	Go Switch NEMA 9			
	\vdash	TE -		1	Bearing temp sensor on Tail pulley bearing Bearing temp sensor on Tail pulley bearing	By Electrician	\vdash		NEMA 9			
		TE -		1	Bearing temp sensor on Head pulley bearing	By Electrician	\vdash		NEMA 9	And the second		
	\vdash	TE -		1	Bearing temp sensor on Head pulley bearing	By Electrician	\vdash		NEMA 9			
_		BAS -		1	Belt alignment sensor at Tail	By Electrician	\vdash		NEMA 9			
		BAS -		1	Belt alignment sensor at Tail	By Electrician	\vdash		NEMA 9			
-	\blacksquare	BAS -		1	Belt alignment sensor at Head	By Electrician	\vdash		NEMA 9		_	
	\Box	BAS -		1	Belt alignment sensor at Head	By Electrician			NEMA 9			
	\Box	SSL -		1	Motion Sensor at Tail Shaft	By Electrician			NEMA 9			
	\Box	SSL -		1	Motion sensor on boot shaft for HOA	By Electrician			NEMA 9			
		LSH -		1	Discharge Pressure Plug Switch	HiRoller		Binatrol Model GX	Plug Switch located in discharge head section			
			004.00	1	Discharge Pressure Plug Switch	HiRoller		Binatrol Model GX	Plug Switch located in discharge head section			
		LSH -	301.80		Constant Transferred					STATE OF THE PARTY	-	4-20mA
		LSH - CT -		1	Current Transformer	By Electrician	11 1				1	
94	1979				Current Transformer	By Electrician					Salahan.	AT LOUVE
			301.90		Receiving Bucket Elevator	Intersystems		GE4838	20,000 BPH, 683 FPM max, 53.2 RPM, Class V Falk M155VR3-A-32.584:1 drive at head, screw take-up at boot, shovel pockets, inlet, boot & head section lined w/ 1/4" ceramic, explosion panels, 48" dia. pulleys & mechanical belt splice. R&P Cleanout Gates in boot section. Designed for Whole Grains.			
		BE -	301.90 302 302.01	1	Receiving Bucket Elevator Electric Motor for Bucket Elevator	Intersystems		GE4838	drive at head, screw take-up at boot, shovel pockets, inlet, boot & head section lined w/ 1/4" ceramic, explosion panels, 48" dia. pulleys & mechanical belt splice. R&P Cleanout Gates in boot section. Designed for Whole Grains. Premium efficent motor, 1750 RPM, TEFC with 1.15 SF. 460V/3PH/60HZ, located at head.	200.0		
		BE -	301.90 302 302.01 302.10	1 1 1 1	Receiving Bucket Elevator Electric Motor for Bucket Elevator Bearing temp sensor on Boot pulley bearing	Intersystems HCC By Electrician		GE4838	drive at head, screw take-up at boot, shovel pockets, inlet, boot & head section lined w/ 1/4" ceramic,explosion panels, 48" dia. pulleys & mechanical belt splice. R&P Cleanout Gates in boot section. Designed for Whole Grains. Premium efficent motor, 1750 RPM, TEFC with 1.15 SF. 460V/3PH/60HZ, located at head. NEMA 9	200.0		
		BE - TE - TE -	301.90 302 302.01 302.10 302.11	1 1 1 1 1	Receiving Bucket Elevator Electric Motor for Bucket Elevator Bearing temp sensor on Boot pulley bearing Bearing temp sensor on Boot pulley bearing	Intersystems HCC By Electrician By Electrician		GE4838	drive at head, screw take-up at boot, shovel pockets, inlet, boot & head section lined w/ 1/4" ceramic, explosion panels, 48" dia. pulleys & mechanical belt splice. R&P Cleanout Gates in boot section. Designed for Whole Grains. Premium efficent motor, 1750 RPM, TEFC with 1.15 SF. 460V/3PH/60HZ, located at head. NEMA 9 NEMA 9	200.0		
		BE - BE - TE - TE -	301.90 302 302.01 302.10 302.11 302.12	1 1 1 1 1 1 1	Receiving Bucket Elevator Electric Motor for Bucket Elevator Bearing temp sensor on Boot pulley bearing Bearing temp sensor on Boot pulley bearing Bearing temp sensor on Head pulley bearing	Intersystems HCC By Electrician By Electrician By Electrician		GE4838	drive at head, screw take-up at boot, shovel pockets, inlet, boot & head section lined w/ 1/4" ceramic, explosion panels, 48" dia. pulleys & mechanical belt splice. R&P Cleanout Gates in boot section. Designed for Whole Grains. Premium efficent motor, 1750 RPM, TEFC with 1.15 SF. 460V/3PH/60HZ, located at head. NEMA 9 NEMA 9 NEMA 9	200.0		
		BE - BE - TE - TE - TE - TE - TE - TE -	301.90 302.01 302.10 302.11 302.12 302.13	1 1 1 1 1 1 1 1	Receiving Bucket Elevator Electric Motor for Bucket Elevator Bearing temp sensor on Boot pulley bearing Bearing temp sensor on Boot pulley bearing Bearing temp sensor on Head pulley bearing Bearing temp sensor on Head pulley bearing	Intersystems HCC By Electrician By Electrician By Electrician By Electrician		GE4838	drive at head, screw take-up at boot, shovel pockets, inlet, boot & head section lined w/ 1/4" ceramic,explosion panels, 48" dia. pulleys & mechanical belt splice. R&P Cleanout Gates in boot section. Designed for Whole Grains. Premium efficent motor, 1750 RPM, TEFC with 1.15 SF. 460V/3PH/60HZ, located at head. NEMA 9 NEMA 9 NEMA 9 NEMA 9	200.0		
Rev	N	BE - BE - TE - TE - TE - TE - BAS -	301.90 302.01 302.10 302.11 302.12 302.13 302.20	1 1 1 1 1 1 1 1 1	Receiving Bucket Elevator Electric Motor for Bucket Elevator Bearing temp sensor on Boot pulley bearing Bearing temp sensor on Boot pulley bearing Bearing temp sensor on Head pulley bearing Bearing temp sensor on Head pulley bearing Belt alignment sensor at Boot Upside	Intersystems HCC By Electrician By Electrician By Electrician By Electrician By Electrician		GE4838	drive at head, screw take-up at boot, shovel pockets, inlet, boot & head section lined w/ 1/4" ceramic, explosion panels, 48" dia. pulleys & mechanical belt splice. R&P Cleanout Gates in boot section. Designed for Whole Grains. Premium efficent motor, 1750 RPM, TEFC with 1.15 SF. 460V/3PH/60HZ, located at head. NEMA 9 NEMA 9 NEMA 9 NEMA 9 NEMA 9	200.0		
Rev		BE - BE - TE - TE - TE - TE - BAS - BAS -	302.01 302.10 302.11 302.12 302.13 302.20 302.21	1 1 1 1 1 1 1 1 1	Receiving Bucket Elevator Electric Motor for Bucket Elevator Bearing temp sensor on Boot pulley bearing Bearing temp sensor on Boot pulley bearing Bearing temp sensor on Head pulley bearing Bearing temp sensor on Head pulley bearing Belt alignment sensor at Boot Upside Belt alignment sensor at Boot Upside	HCC By Electrician		GE4838	drive at head, screw take-up at boot, shovel pockets, inlet, boot & head section lined w/ 1/4" ceramic, explosion panels, 48" dia. pulleys & mechanical belt splice. R&P Cleanout Gates in boot section. Designed for Whole Grains. Premium efficent motor, 1750 RPM, TEFC with 1.15 SF. 460V/3PH/60HZ, located at head. NEMA 9 NEMA 9 NEMA 9 NEMA 9 NEMA 9 NEMA 9	200.0		
Add	N	BE - BE - TE - TE - TE - TE - BAS - BAS - BAS -	302.01 302.10 302.11 302.12 302.13 302.20 302.21 302.21	1 1 1 1 1 1 1 1 1 1 1	Receiving Bucket Elevator Electric Motor for Bucket Elevator Bearing temp sensor on Boot pulley bearing Bearing temp sensor on Boot pulley bearing Bearing temp sensor on Head pulley bearing Bearing temp sensor on Head pulley bearing Belt alignment sensor at Boot Upside Belt alignment sensor at Boot Upside Belt alignment sensor at Boot Upside	Intersystems HCC By Electrician		GE4838	drive at head, screw take-up at boot, shovel pockets, inlet, boot & head section lined w/ 1/4" ceramic, explosion panels, 48" dia. pulleys & mechanical belt splice. R&P Cleanout Gates in boot section. Designed for Whole Grains. Premium efficent motor, 1750 RPM, TEFC with 1.15 SF. 460V/3PH/60HZ, tocated at head. NEMA 9	200.0		
Add Add	N	BE - BE - TE - TE - TE - TE - BAS - BAS - BAS - BAS -	301.90 302.01 302.10 302.11 302.12 302.13 302.20 302.21 302.22 302.23	1 1 1 1 1 1 1 1 1 1 1	Receiving Bucket Elevator Electric Motor for Bucket Elevator Bearing temp sensor on Boot pulley bearing Bearing temp sensor on Boot pulley bearing Bearing temp sensor on Head pulley bearing Bearing temp sensor on Head pulley bearing Belt alignment sensor at Boot Upside Belt alignment sensor at Boot Downside Belt alignment sensor at Boot Downside	Intersystems HCC By Electrician		GE4838	drive at head, screw take-up at boot, shovel pockets, inlet, boot & head section lined w/ 1/4" ceramic, explosion panels, 48" dia. pulleys & mechanical belt splice. R&P Cleanout Gates in boot section. Designed for Whole Grains. Premium efficent motor, 1750 RPM, TEFC with 1.15 SF. 460V/3PH/60HZ, located at head. NEMA 9	200.0		
Add Add Rev	N N	BE - BE - TE - TE - TE - TE - BAS - BAS - BAS - BAS - BAS -	301.90 302.01 302.10 302.11 302.12 302.13 302.20 302.21 302.22 302.23 302.24	1 1 1 1 1 1 1 1 1 1 1 1	Receiving Bucket Elevator Electric Motor for Bucket Elevator Bearing temp sensor on Boot pulley bearing Bearing temp sensor on Boot pulley bearing Bearing temp sensor on Head pulley bearing Bearing temp sensor on Head pulley bearing Belt alignment sensor at Boot Upside Belt alignment sensor at Boot Upside Belt alignment sensor at Boot Downside Belt alignment sensor at Boot Downside Belt alignment sensor at Head Upside	Intersystems HCC By Electrician		GE4838	drive at head, screw take-up at boot, shovel pockets, inlet, boot & head section lined w/ 1/4" ceramic, explosion panels, 48" dia. pulleys & mechanical belt splice. R&P Cleanout Gates in boot section. Designed for Whole Grains. Premium efficent motor, 1750 RPM, TEFC with 1.15 SF. 460V/3PH/60HZ, located at head. NEMA 9	200.0		
Add Add Rev Rev	N N N	BE - BE - TE - TE - TE - BAS - BAS - BAS - BAS - BAS - BAS -	302.01 302.10 302.11 302.12 302.13 302.20 302.21 302.22 302.23 302.24 302.24	1 1 1 1 1 1 1 1 1 1 1 1 1 1	Receiving Bucket Elevator Electric Motor for Bucket Elevator Bearing temp sensor on Boot pulley bearing Bearing temp sensor on Boot pulley bearing Bearing temp sensor on Head pulley bearing Bearing temp sensor on Head pulley bearing Belt alignment sensor at Boot Upside Belt alignment sensor at Boot Upside Belt alignment sensor at Boot Downside Belt alignment sensor at Boot Downside Belt alignment sensor at Head Upside Belt alignment sensor at Head Upside Belt alignment sensor at Head Upside	Intersystems HCC By Electrician		GE4838	drive at head, screw take-up at boot, shovel pockets, inlet, boot & head section lined w/ 1/4" ceramic, explosion panels, 48" dia. pulleys & mechanical belt splice. R&P Cleanout Gates in boot section. Designed for Whole Grains. Premium efficent motor, 1750 RPM, TEFC with 1.15 SF. 460V/3PH/60HZ, located at head. NEMA 9	200.0		
Add Add Rev Rev Add	N N N N	BE - BE - TE - TE - TE - BAS - BAS - BAS - BAS - BAS - BAS -	301.90 302.01 302.10 302.11 302.12 302.23 302.22 302.23 302.24 302.25 302.26	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Receiving Bucket Elevator Electric Motor for Bucket Elevator Bearing temp sensor on Boot pulley bearing Bearing temp sensor on Boot pulley bearing Bearing temp sensor on Head pulley bearing Bearing temp sensor on Head pulley bearing Belt alignment sensor at Boot Upside Belt alignment sensor at Boot Upside Belt alignment sensor at Boot Downside Belt alignment sensor at Head Upside	Intersystems HCC By Electrician		GE4838	drive at head, screw take-up at boot, shovel pockets, inlet, boot & head section lined w/ 1/4" ceramic, explosion panels, 48" dia. pulleys & mechanical belt splice. R&P Cleanout Gates in boot section. Designed for Whole Grains. Premium efficent motor, 1750 RPM, TEFC with 1.15 SF. 460V/3PH/60HZ, located at head. NEMA 9	200.0		
Add Add Rev Rev	N N N N	BE - BE - TE - TE - TE - TE - BAS -	301.90 302.01 302.10 302.11 302.12 302.23 302.21 302.23 302.24 302.25 302.26 302.27	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Receiving Bucket Elevator Electric Motor for Bucket Elevator Bearing temp sensor on Boot pulley bearing Bearing temp sensor on Boot pulley bearing Bearing temp sensor on Head pulley bearing Bearing temp sensor on Head pulley bearing Belt alignment sensor at Boot Upside Belt alignment sensor at Boot Upside Belt alignment sensor at Boot Downside Belt alignment sensor at Boot Downside Belt alignment sensor at Head Upside Belt alignment sensor at Head Upside Belt alignment sensor at Head Downside	Intersystems HCC By Electrician		GE4838	drive at head, screw take-up at boot, shovel pockets, inlet, boot & head section lined w/ 1/4" ceramic, explosion panels, 48" dia. pulleys & mechanical belt splice. R&P Cleanout Gates in boot section. Designed for Whole Grains. Premium efficent motor, 1750 RPM, TEFC with 1.15 SF. 460V/3PH/60HZ, located at head. NEMA 9	200.0		
Add Add Rev Rev Add	N N N N	BE - BE - TE - TE - TE - BAS - BAS - BAS - BAS - BAS - BAS - SSL -	301.90 302.01 302.10 302.11 302.12 302.23 302.21 302.22 302.23 302.24 302.25 302.26 302.27 302.30	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Receiving Bucket Elevator Electric Motor for Bucket Elevator Bearing temp sensor on Boot pulley bearing Bearing temp sensor on Boot pulley bearing Bearing temp sensor on Head pulley bearing Bearing temp sensor on Head pulley bearing Belt alignment sensor at Boot Upside Belt alignment sensor at Boot Upside Belt alignment sensor at Boot Downside Belt alignment sensor at Boot Downside Belt alignment sensor at Head Upside Belt alignment sensor at Head Upside Belt alignment sensor at Head Downside Motion sensor on boot shaft	Intersystems HCC By Electrician			drive at head, screw take-up at boot, shovel pockets, inlet, boot & head section lined wi 1/4" ceramic, explosion panels, 48" dia. pulleys & mechanical belt splice. R&P Cleanout Gates in boot section. Designed for Whole Grains. Premium efficent motor, 1750 RPM, TEFC with 1.15 SF. 460V/3PH/60HZ, located at head. NEMA 9	200.0		
Add Add Rev Rev Add	N N N N	BE - BE - TE - TE - TE - BAS -	301.90 302.01 302.10 302.11 302.12 302.13 302.20 302.21 302.22 302.23 302.24 302.25 302.26 302.27 302.30 302.40	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Receiving Bucket Elevator Electric Motor for Bucket Elevator Bearing temp sensor on Boot pulley bearing Bearing temp sensor on Boot pulley bearing Bearing temp sensor on Head pulley bearing Bearing temp sensor on Head pulley bearing Belt alignment sensor at Boot Upside Belt alignment sensor at Boot Downside Belt alignment sensor at Boot Downside Belt alignment sensor at Head Upside Belt alignment sensor at Head Downside Belt alignment sensor at Head Downside Belt alignment sensor at Head Downside Boots and the sensor at Head Downside Motion sensor on boot shaft Discharge plug sensor	Intersystems HCC By Electrician Intersystems			drive at head, screw take-up at boot, shovel pockets, inlet, boot & head section lined w/ 1/4" ceramic, explosion panels, 48" dia. pulleys & mechanical belt splice. R&P Cleanout Gates in boot section. Designed for Whole Grains. Premium efficent motor, 1750 RPM, TEFC with 1.15 SF. 460V/3PH/60HZ, located at head. NEMA 9	200.0		
Add Rev Rev Add Add	N N N N N	BE - BE - TE - TE - TE - BAS -	301.90 302.01 302.10 302.11 302.12 302.23 302.22 302.23 302.24 302.25 302.26 302.27 302.30 302.40 302.50	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Receiving Bucket Elevator Electric Motor for Bucket Elevator Bearing temp sensor on Boot pulley bearing Bearing temp sensor on Boot pulley bearing Bearing temp sensor on Head pulley bearing Bearing temp sensor on Head pulley bearing Belt alignment sensor at Boot Upside Belt alignment sensor at Boot Upside Belt alignment sensor at Boot Downside Belt alignment sensor at Head Upside Belt alignment sensor at Head Downside Motion sensor on boot shaft Discharge plug sensor Manual Magnet	Intersystems HCC By Electrician Intersystems Intersystems			drive at head, screw take-up at boot, shovel pockets, inlet, boot & head section lined wi 1/4" ceramic, explosion panels, 48" dia. pulleys & mechanical belt splice. R&P Cleanout Gates in boot section. Designed for Whole Grains. Premium efficent motor, 1750 RPM, TEFC with 1.15 SF. 460V/3PH/60HZ, located at head. NEMA 9	200.0		
Add Add Rev Rev Add	N N N N	BE - BE - TE - TE - TE - BAS -	301.90 302.01 302.10 302.11 302.12 302.13 302.20 302.21 302.25 302.24 302.25 302.26 302.27 302.30 302.40 302.50 302.51	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Receiving Bucket Elevator Electric Motor for Bucket Elevator Bearing temp sensor on Boot pulley bearing Bearing temp sensor on Boot pulley bearing Bearing temp sensor on Head pulley bearing Bearing temp sensor on Head pulley bearing Belt alignment sensor at Boot Upside Belt alignment sensor at Boot Downside Belt alignment sensor at Boot Downside Belt alignment sensor at Head Upside Belt alignment sensor at Head Downside Belt alignment sensor at Head Downside Belt alignment sensor at Head Downside Boots and the sensor at Head Downside Motion sensor on boot shaft Discharge plug sensor	Intersystems HCC By Electrician Intersystems			drive at head, screw take-up at boot, shovel pockets, inlet, boot & head section lined wi 1/4" ceramic, explosion panels, 48" dia. pulleys & mechanical belt splice. R&P Cleanout Gates in boot section. Designed for Whole Grains. Premium efficent motor, 1750 RPM, TEFC with 1.15 SF. 460V/3PH/60HZ, located at head. NEMA 9	200.0		

Owner: Dakota Plains Ag Center, LLC

Location: Utica, SD

Project Number

Date: December 4, 2015

1								Revision				
Rev, Del & Add	REV NO.	PREFIX	- NUMBER	QTY	DESCRIPTION- Concrete 6-pack, (4) Interstice Bins 1/10 CFM on concrete 6-pack & 1 Ground Pile & a 10,000 BPH dryer system	MANUFACTU RER	P.O .#	MODEL No. & SIZE	DESIGN/ CAPACITY/ CONSTRUCTION	НР		OUTPUT
Add	N	EOV	- 303	1	Electric Two-Way Slide Gate Valve	HCC		18" sq. 'K' style, 45 deg.	20,000 BPH, Each gate is operated with an electric actuator. HD dust-tight construction w/ cam followers and lined through out with 1/4" thick Ceramic liner. Full open & full closed gate operation.			
Add	N	XV	- 303.10	1	Electric Andco Actuator	HCC		Linear Actuator	230/460V/3PH	1.0		
Add	N		- 303.11	1	Position Switch Closed	HCC			Go Switch			
Add	N	ZSO	- 303.12	1	Position Switch Open	HCC	\Box		Go Switch			
Add	N		- 303.13		Electric Andco Actuator	HCC		Linear Actuator	230/460V/3PH	1.0		
Add	N		- 303.14	1	Position Switch Closed	HCC			Go Switch			
Add	N	ZSO	- 303.15	1	Position Switch Open	HCC			Go Switch	NEW COLE		
Add	N	EOV		1	Electric Two-Way Slide Gate Valve	нсс		18" sq. 'K' style, 45 deg.	20,000 BPH, Each gate is operated with an electric actuator. HD dust-tight construction w/ cam followers and lined through out with 1/4" thick Ceramic liner. Full open & full closed gate operation.			
Add	N		- 304.10	1	Electric Andco Actuator	HCC		Linear Actuator	230/460V/3PH	1.0		
Add	N		- 304.11	1	Position Switch Closed	HCC			Go Switch			
Add	N		- 304.12	1	Position Switch Open	HCC			Go Switch			
Add			- 304.13		Electric Andco Actuator	HCC		Linear Actuator	230/460V/3PH	1.0		
Add	N		- 304.14	1	Position Switch Closed	HCC	Ш		Go Switch			
Add	N	ZSO	- 304.15	1	Position Switch Open	HCC			Go Switch			
02700	MAN S			-		Interespetator	(1000)	PC-20000	Consoling Consoling CO 000 PDM Internal Pro Page			DE L
	-		- 305	1	Gravity Screener	Intersystems	\vdash	PC-20000	Screening Capacity 20,000 BPH Internal By-Pass			
		GS	- 305.01	1	Manual internal bypass	Intersystems	10000					
		SP	- 306	1	Drag Scalper	Ferrell-Ross	-	Model FMDS-6025	20,000 BPH, Designed for Whole Grains,			HALL DO
	-							Wodel FWD3-0025	Premium efficent motor, 1750 RPM, TEFC with 1.15 SF. 460V/3PH/60HZ,		-	
		SP	- 306.01	1	Electric Motor for Scalper	Ferrell-Ross			located at head.	10.0		
Rev	N		- 307	1	Electric Two-Way Slide Gate Valve	нсс		18" sq. 'K' style, 45 deg.	20,000 BPH, Each gate is operated with an electric actuator. HD dust-tight construction w/ cam followers and lined through out with 1/4" thick Ceramic liner. Full open & full closed gate operation.			
Rev	N		- 307.10	1	Electric Andco Actuator	HCC	_	Linear Actuator	230/460V/3PH	1.0		
Rev	N		- 307.11 - 307.12	1	Position Switch Closed	HCC	-		Go Switch Go Switch			
Rev	N		- 307.12 - 307.13	+-	Position Switch Open Electric Andco Actuator	HCC	-	Linear Actuator	230/460V/3PH	1.0	-	
Rev	N		- 307.13	1	Position Switch Closed	HCC	-	Linear Actuator	Go Switch	1.0	-	
Rev	N		- 307.14	1	Position Switch Open	HCC	-		Go Switch		 	
IZGA	IN.	230	- 307.13		1 Osition Switch Open	1100	TP TK				THE RESERVE	(BOHR)
		DC	- 308	1	Concrete Silos Distribution Drag Conveyor	Intersystems		EMC2526-P	20,000 BPH, 137 FPM max, final drive RPM 26.73, single Falk 5507J Class 2 HTD Belt drive at head, Manual take-up at tail, designed for whole grains, conveyor is horizontal			
		DC	- 308.01	1	Electric motor for conveyor	нсс			Premium efficient motor, 1750 RPM, XP with 1.15 SF. 480V/3PH/60HZ, located at head.	50.0		
		EG	- 308.05	1	Electric gate for Head Discharge	Intersystems			Gate is operated with an electric motor. HD dust-tight construction w/ cam followers and lined through out with 1/4" thick AR liner. Full open & full closed gate operation.			
			- 308.06	1	Electric motor	Intersystems			230/460V/3PH	0.3		
			- 308.07	1	Position Switch Closed	Intersystems			Limit Switch	A Design		
			- 308.08	1	Position Switch Open	Intersystems	<u> </u>		Limit Switch			
			- 308.10	1	Bearing temp sensor on Head bearing	By Electrician	_		NEMA 9			
			- 308.11	1	Bearing temp sensor on Head bearing	By Electrician	⊩		NEMA 9			
	\vdash	TE	308.12	1	Bearing temp sensor on Tail bearing	By Electrician	-		NEMA 9		-	-
-			- 308.13	1	Bearing temp sensor on Tail bearing	By Electrician	-		NEMA 9		-	-
Kev	N		- 308.14	1	Plug switch on Head section	Intersystems	₩		Go Switch			-
	\vdash		- 308.15	1	Motion Sensor at Tail Shaft	By Electrician	\vdash		NEMA 9			-
			- 308.16 - 308.17	1	Slack chain detector switch Current Transformer	Intersystems By Electrician	-		INCIVIA 9			4-20mA
			- 308.17	1	Electric gate for Intermediate Discharge	Intersystems			Gate is operated with an electric motor. HD dust-tight construction w/ cam followers and lined through out with 1/4" thick AR liner. Full open & full closed gate operation.			4-20INA

Owner: Dakota Plains Ag Center, LLC

Location: Utica, SD

Project Number

Date: December 4, 2015

Rev, REV el & . Add NO.	PREFIX - NUM		TY	DESCRIPTION- Concrete 6-pack, (4) Interstice Bins 1/10 CFM on concrete 6-pack & 1 Ground Pile & a 10,000 BPH dryer system	MANUFACTU RER	P.O .#	MODEL No. & SIZE	DESIGN/ CAPACITY/ CONSTRUCTION	НР	SUPPLY VOLTS	OUTPU
	XV - 308.2	1	1	Electric motor	Intersystems			230/460V/3PH	0.3		
	ZSC - 308.2	2	1	Position Switch Closed	Intersystems			Limit Switch			
	ZSO - 308.2	3	1	Position Switch Open	Intersystems			Limit Switch	TO NAME OF		
	EG - 308.3	30	1	Electric gate for Intermediate Discharge	Intersystems			Gate is operated with an electric motor. HD dust-tight construction w/ cam followers and lined through out with 1/4" thick AR liner. Full open & full closed gate operation.			
	XV - 308.3	1	1	Electric motor	Intersystems			230/460V/3PH	0.3		
	ZSC - 308.3		1	Position Switch Closed	Intersystems			Limit Switch	No. of the last		
	ZSO - 308.3		1	Position Switch Open	Intersystems			Limit Switch			
	EG - 308.4		1	Electric gate for Intermediate Discharge	Intersystems			Gate is operated with an electric motor. HD dust-tight construction w/ cam followers and lined through out with 1/4" thick AR liner. Full open & full closed gate operation.			
	XV - 308.4	11	1	Electric motor	Intersystems			230/460V/3PH	0.3		
	ZSC - 308.4	2	1	Position Switch Closed	Intersystems			Limit Switch			
	ZSO - 308.4		1	Position Switch Open	Intersystems			Limit Switch			
	EG - 308.5		1	Electric gate for Intermediate Discharge	Intersystems			Gate is operated with an electric motor. HD dust-tight construction w/ cam followers and lined through out with 1/4" thick AR liner. Full open & full closed gate operation.			
	XV - 308.5	51	1	Electric motor	Intersystems			230/460V/3PH	0.3		
	ZSC - 308.5		1	Position Switch Closed	Intersystems			Limit Switch			
\neg	ZSO - 308.5		1	Position Switch Open	Intersystems			Limit Switch			
	EG - 308.6	50	1	Electric gate for Intermediate Discharge	Intersystems			Gate is operated with an electric motor. HD dust-tight construction w/ cam followers and lined through out with 1/4" thick AR liner. Full open & full closed gate operation.			
	XV - 308.6		1	Electric motor	Intersystems	_		230/460V/3PH	0.3		
	ZSC - 308.6		1	Position Switch Closed	Intersystems			Limit Switch			
	ZSO - 308.6	63	1	Position Switch Open	Intersystems			Limit Switch			
	EG - 308.7	70	1	Electric gate for Intermediate Discharge	Intersystems			Gate is operated with an electric motor. HD dust-tight construction w/ cam followers and lined through out with 1/4" thick AR liner. Full open & full closed gate operation.			
	XV - 308.7	71	1	Electric motor	Intersystems			230/460V/3PH	0.3		
	ZSC - 308.7	72	1	Position Switch Closed	Intersystems			Limit Switch			
	ZSO - 308.7	73	1	Position Switch Open	Intersystems			Limit Switch			
	EG - 308.8		1	Electric gate for Intermediate Discharge	Intersystems			Gate is operated with an electric motor. HD dust-tight construction w/ cam followers and lined through out with 1/4" thick AR liner. Full open & full closed gate operation.			
	XV - 308.8		1	Electric motor	Intersystems			230/460V/3PH	0.3		
	ZSC - 308.8	32	1	Position Switch Closed	Intersystems			Limit Switch			
	ZSO - 308.8	33	1	Position Switch Open	Intersystems			Limit Switch	The section		
	EG - 308.9	90	1	Electric gate for Intermediate Discharge	Intersystems			Gate is operated with an electric motor. HD dust-tight construction w/ cam followers and lined through out with 1/4" thick AR liner. Full open & full closed gate operation.			
	XV - 308.9		1	Electric motor	Intersystems			230/460V/3PH	0.3		
	ZSC - 308.9	92	1	Position Switch Closed	Intersystems			Limit Switch	BALES I		
	ZSO - 308.9	93	1	Position Switch Open	Intersystems			Limit Switch			
	EG - 308.9	95	1	Electric gate for Intermediate Discharge	Intersystems			Gate is operated with an electric motor. HD dust-tight construction w/ cam followers and lined through out with 1/4" thick AR liner. Full open & full closed gate operation.			
	XV - 308.9	96	1	Electric motor	Intersystems			230/460V/3PH	0.3		
	ZSC - 308.9		1	Position Switch Closed	Intersystems			Limit Switch			
	ZSO - 308.9		1	Position Switch Open	Intersystems			Limit Switch	Section 1		1
154	200 000.		-	T COMOT CHICK OPEN	mitore) eternic						925,000
	BC - 500		1	Ground Pile Distribution Belt Conveyor	HiRoller		Model 42 HiLife	40,000 BPH, 650 FPM max, Drive Shaft 118.23 RPM, single Falk 5307JR14 Class 2 HTD reducer Belt drive at head, Manual take-up at tail, conveyor is horizontal.			
	BC - 500.0		1	Electric motor for belt	HCC By Electrician			Premium efficient motor, 1750 RPM, EXP with 1.15 SF. 440V/3PH/60HZ, located at head.	60.0		
_	TE - 500.		1	Bearing temp sensor on Tail pulley bearing	By Electrician	1	-	NEMA 9			-
	TE - 500.		1	Bearing temp sensor on Tail pulley bearing	By Electrician	-		NEMA 9	-		
11	TE - 500.	12	1	Bearing temp sensor on Head pulley bearing	By Electrician			NEMA 9			

Owner: Dakota Plains Ag Center, LLC

Location: Utica, SD Project Number

Date: December 4, 2015

								Revision				
Del &	REV NO.	PREFIX -		QTY	DESCRIPTION- Concrete 6-pack, (4) Interstice Bins 1/10 CFM on concrete 6-pack & 1 Ground Pile & a 10,000 BPH dryer system	MANUFACTU RER	P.O . #	MODEL No. & SIZE	DESIGN/ CAPACITY/ CONSTRUCTION	НР	SUPPLY VOLTS	OUTPU SIGNAI
		TE -		1	Bearing temp sensor on Head pulley bearing	By Electrician			NEMA 9			
		BAS -	500.20	1	Belt alignment sensor at Tail	By Electrician			NEMA 9	MARE THE		
		BAS -	500.21	1	Belt alignment sensor at Tail	By Electrician		_	NEMA 9			
		BAS -		1	Belt alignment sensor at Head	By Electrician			NEMA 9	The same of		
		BAS -		1	Belt alignment sensor at Head	By Electrician			NEMA 9			
-		SSL -		1	Motion Sensor at Tail Shaft	By Electrician			NEMA 9		1	
-	\vdash	SSL -		1	Motion sensor on boot shaft for HOA	By Electrician	-		NEMA 9			
_	\vdash	LSH -		1	Discharge Pressure Plug Switch	HiRoller	1	Binatrol Model GX	Plug Switch located in discharge head section	10 TO		
	\vdash	CT -		1	Current Transformer	By Electrician	\vdash	Birlati of Woder GX	riag Switch located in discharge nead section		-	4-20mA
	10000000	CI -	300.30	-	Current Hansionner	by Liectrician						4-201117
					Grain Storage				Capacities listed are based upon Whole Grains up to 60 lbs/bu			
		SS -	101	1	Whole Grain Concrete Storage Silo #101	HCC	B/E	42ft Dia. x 140ft Tall	170,000 Maximum "usable" Bushel Capacity based on Whole Grains and		05-00-0	90 n
							-		includes 6% adder for compaction factor.			
		LSH -		1	High level switch	By Electrician			Point level control - Stop feed source & initiate shut down sequence			
		LT	101.02	1	Smart Bob	By Electrician			Level Indicator	T. 707 12	1	
Rev	N	RE -		4	Gravity Vent	Airlanco		24" dia				
		RE -	101.11	1	Roof Exhauster #1	Airlanco		24"	230/460V/3PH/60HZ - Explosion Proof	2.0		
		RE -		1	Roof Exhauster #2	Airlanco		24"	230/460V/3PH/60HZ - Explosion Proof	2.0		
		SS -		1	Concrete Aeration/Unloading Package	Airlanco	1	Luft Kanals	Aeration/Unloading Package - 1/10th CFM per BU aeration for Corn			
		FA -		1	Fan with motor	Airlanco	1		230V/460V/3PH/60HZ	60.0		
		EPG -		1	Electric proportioning gate for Center Reclaim Discharge	нсс		24" square	Gate is operated with an electric XP actuator. HD dust-tight construction w/ cam followers and lined through out with 1/4" thick ceramic liner. Full open & full closed gate operation as well as metering control with potentiometer.			
		XV -	101.31	1	Electric Actuator	HCC	1	Linear Actuator	230/460V/3PH	0.5		
		ZSC -		1	Position Switch Closed	HCC	1		Proximity sensor			
	-	ZSO -		1	Position Switch Open	HCC	\vdash		Proximity sensor			
-		ZT -		1	% Meter	HCC	╫		Potentiometer			4-20 ma
	-	TC -		1	Temperature Monitoring Cable System	By Electrician	╫─		Potentionietei		-	4-20 IIIa
		EPG -	101.50	1	Electric proportioning gate for Side Tap Discharge to BE-605 Receiving Leg	нсс		18" square	Gate is operated with an electric actuator. HD dust-tight construction w/ cam followers and lined through out with 1/4" thick ceramic liner. Full open & full closed gate operation as well as metering control with potentiometer.			
		XV -		1	Electric Actuator	HCC		Linear Actuator	230/460V/3PH	0.5		
		ZSC -	101.52	1	Position Switch Closed	HCC						
		ZSO -	101.53	1	Position Switch Open	HCC				Water NEW		
		ZT -	101.54	1	% Meter	HCC			Potentiometer			4-20 ma
		EPG -	101.60	1	Electric proportioning gate for Side Tap Discharge to BC-700 Wet Belt Conveyor	нсс		18" square	Gate is operated with an electric actuator. HD dust-tight construction w/ cam followers and lined through out with 1/4" thick ceramic liner. Full open & full closed gate operation as well as metering control with potentiometer.			
		XV -		1	Electric Actuator	HCC		Linear Actuator	230/460V/3PH	0.5		
		ZSC -	101.62	1	Position Switch Closed	HCC						
		ZSO -	101.63	1	Position Switch Open	HCC						
	60000	ZT -	101.64	1	% Meter	HCC			Potentiometer			4-20 ma
		SS -	1000000	1	Whole Grain Concrete Storage Silo #102	нсс		42ft Dia. x 140ft Tall	170,000 Maximum "usable" Bushel Capacity based on Whole Grains and includes 6% adder for compaction factor.			
		LSH -		1	High level switch	By Electrician			Point level control - Stop feed source & initiate shut down sequence		1	
		LT	102.02	1	Smart Bob	By Electrician			Level Indicator	30.5	R.	
Rev	N	RE -	100110	4	Gravity Vent	Airlanco		24" dia				
		RE -		1	Roof Exhauster #1	Airlanco		24"	230/460V/3PH/60HZ - Explosion Proof	2.0		
		RE -	102.12	1	Roof Exhauster #2	Airlanco		24"	230/460V/3PH/60HZ - Explosion Proof	2.0	1	
		SS -	102.20	1	Concrete Aeration/Unloading Package	Airlanco		Luft Kanals	Aeration/Unloading Package - 1/10th CFM per BU aeration for Corn		V .	
		FA -		1	Fan with motor	Airlanco			230V/460V/3PH/60HZ	60.0	9	
		EPG -		1	Electric proportioning gate for Center Reclaim Discharge	HCC		24" square	Gate is operated with an electric XP actuator. HD dust-tight construction w/ cam followers and lined through out with 1/4" thick ceramic liner. Full open & full closed gate operation as well as metering control with potentiometer.	30.0		

Owner: Dakota Plains Ag Center, LLC

Location: Utica, SD

Project Number

								Revision:	N			
Rev, Del & Add	REV NO.	PREFIX -	NUMBER	QTY	DESCRIPTION- Concrete 6-pack, (4) Interstice Bins 1/10 CFM on concrete 6-pack & 1 Ground Pile & a 10,000 BPH dryer system	MANUFACTU RER	P.O . #	MODEL No. & SIZE	DESIGN/ CAPACITY/ CONSTRUCTION	НР		OUTPUT
		XV -	102.31	1	Electric Actuator	HCC	П	Linear Actuator	230/460V/3PH	0.5		
		ZSC -		1	Position Switch Closed	HCC			Proximity sensor			
	\Box	ZSO -		1	Position Switch Open	HCC			Proximity sensor	merican e		
-	\vdash	ZT -		1	% Meter	HCC			Potentiometer	The second second		4-20 ma
\vdash	\vdash	TC -		1	Temperature Monitoring Cable System	By Electrician			1 Statistical			1201110
		EPG -		1	Electric proportioning gate for Side Tap Discharge to BC-700 Wet Belt Conveyor	HCC			Gate is operated with an electric actuator. HD dust-tight construction w/ cam followers and lined through out with 1/4" thick ceramic liner. Full open & full closed gate operation as well as metering control with potentiometer.			
		XV -	102.51	1	Electric Actuator	HCC		Linear Actuator	230/460V/3PH	0.5		
		ZSC -	102.52	1	Position Switch Closed	HCC						
-		ZSO -		1	Position Switch Open	HCC				THE RESERVE		
	\blacksquare	ZT -		1	% Meter	HCC			Potentiometer			4-20 ma
		21 -	102.54		70 Metel	1100			1 oternionieter		100000000000000000000000000000000000000	4-20 ma
12.72		SS -		1	Whole Grain Concrete Storage Silo #103	нсс		42ft Dia. x 140ft Tall	170,000 Maximum "usable" Bushel Capacity based on Whole Grains and includes 6% adder for compaction factor.			
		LSH -		1	High level switch	By Electrician			Point level control - Stop feed source & initiate shut down sequence		4	
		LT	103.02	1	Smart Bob	By Electrician			Level Indicator			
Rev	N	RE -	103.10	4	Gravity Vent	Airlanco		24" dia				
		RE -		1	Roof Exhauster #1	Airlanco		24"	230/460V/3PH/60HZ - Explosion Proof	2.0		
		RE -	103.12	1	Roof Exhauster #2	Airlanco		24"	230/460V/3PH/60HZ - Explosion Proof	2.0		
		SS -		1	Concrete Aeration/Unloading Package	Airlanco		Luft Kanals	Aeration/Unloading Package - 1/10th CFM per BU aeration for Corn			1
	\vdash	FA -		1	Fan with motor	Airlanco		East Harland	230V/460V/3PH/60HZ	60.0	4	1
		EPG -	- 103.30	1	Electric proportioning gate for Center Reclaim Discharge	нсс		24" square	Gate is operated with an electric XP actuator. HD dust-tight construction w/ cam followers and lined through out with 1/4" thick ceramic liner. Full open & full closed gate operation as well as metering control with potentiometer.			
		XV -	103.31	1	Electric Actuator	HCC		Linear Actuator	230/460V/3PH	0.5	A	
		ZSC -	103.32	1	Position Switch Closed	HCC			Proximity sensor	STORES TO INC.		
			103.33	1	Position Switch Open	HCC			Proximity sensor			1
-	1		103.34	1	% Meter	HCC	╫		Potentiometer	and the same of the same of		4-20 ma
-	-	TC -		1	Temperature Monitoring Cable System	By Electrician	+		1 otoritionictor	7572	-	4-20 ma
		EPG -		1	Electric proportioning gate for Side Tap Discharge to BC-700 Wet Belt Conveyor	HCC		18" square	Gate is operated with an electric actuator. HD dust-tight construction w/ cam followers and lined through out with 1/4" thick ceramic liner. Full open & full closed gate operation as well as metering control with potentiometer.			
	1	XV -	103.51	1	Electric Actuator	HCC		Linear Actuator	230/460V/3PH	0.5		
			103.52	1	Position Switch Closed	HCC	1					1
		ZSO -		1	Position Switch Open	HCC	1			A CONTRACTOR		1
	1		103.54	1	% Meter	HCC	1	1	Potentiometer			4-20 ma
	-	Manager Committee	100.04	<u> </u>	70 MOGO	1100	1				-	1 ZO IIIa
		SS -		1	Whole Grain Concrete Storage Interstice Bin #201	нсс		56sqft Dia. x 140ft Tall	6,000 Maximum "usable" Bushel Capacity based on Whole Grains and includes 3% adder for compaction factor.			
		LSH -	201.01	1	High level switch	By Electrician			Point level control - Stop feed source & initiate shut down sequence	PESSON		
		LT	201.02	1	Smart Bob	By Electrician	6		Level Indicator			
		EPG -	201.00	1	Electric proportioning gate for Center Reclaim Discharge	нсс		20" square	Gate is operated with an electric XP actuator. HD dust-tight construction w/ cam followers and lined through out with 1/4" thick ceramic liner. Full open & full closed gate operation as well as metering control with potentiometer.			
		XV -	- 201.10	1	Electric Actuator	HCC		Linear Actuator	230/460V/3PH	0.5	A	
			- 201.11	1	Position Switch Closed	HCC			Proximity sensor	17500000		
			- 201.12	1	Position Switch Open	HCC	1		Proximity sensor			1
	1		201.12	1	% Meter	HCC	1	1	Potentiometer			4-20 ma
-	1		201.13	1	Temperature Monitoring Cable System	By Electrician	1	1	- Controlled			T-ZU IIIa
1000000		10 -	201.20	-	Tomperature Monitoring Cable System	- Dy Liectrician	+				Name and Address	
		SS -		1	Whole Grain Concrete Storage Interstice Bin #202	нсс		363.5sqft Dia. x 140ft Tall	33,000 Maximum "usable" Bushel Capacity based on Whole Grains and includes 3% adder for compaction factor.			
				11 .	High level eviteb	D. Clastician	. 11		Deint level central Cton food course 9 initiate shut down assurance	MICHAEL CO.		
		LSH -	- 202.01	1	High level switch	By Electrician			Point level control - Stop feed source & initiate shut down sequence			

Owner: Dakota Plains Ag Center, LLC Location: Utica, SD

Project Number

Date: December 4, 2015

								Revision:	N			
Del &	REV NO.	PREFIX	- NUMBER	QTY	DESCRIPTION- Concrete 6-pack, (4) Interstice Bins 1/10 CFM on concrete 6-pack & 1 Ground Pile & a 10,000 BPH dryer system	MANUFACTU RER	P.O . #	MODEL No. & SIZE	DESIGN/ CAPACITY/ CONSTRUCTION	НР		OUTPU' SIGNAL
		EPG	- 202.03	1	Electric proportioning gate for Center Reclaim Discharge	HCC		24" square	Gate is operated with an electric XP actuator. HD dust-tight construction w/ cam followers and lined through out with 1/4" thick ceramic liner. Full open & full closed gate operation as well as metering control with potentiometer.			
		XV	- 202.10	1	Electric Actuator	HCC		Linear Actuator	230/460V/3PH	0.5		
		ZSC	- 202.11	1	Position Switch Closed	HCC			Proximity sensor			
		ZSO	- 202.12	1	Position Switch Open	HCC			Proximity sensor	The section		
		ZT	- 202.13	1	% Meter	HCC			Potentiometer			4-20 ma
		TC	- 202.20	1	Temperature Monitoring Cable System	By Electrician						
Pare	MON						330				100000	
			- 203	1	Whole Grain Concrete Storage Interstice Bin #203	нсс		363.5sqft Dia. x 140ft Tall	33,000 Maximum "usable" Bushel Capacity based on Whole Grains and includes 3% adder for compaction factor.			
		LSH	- 203.01	1	High level switch	By Electrician			Point level control - Stop feed source & initiate shut down sequence	THE REAL PROPERTY.		
		LT	203.02	1	Smart Bob	By Electrician			Level Indicator	No.		
		EPG	- 203.03	1	Electric proportioning gate for Center Reclaim Discharge	нсс		24" square	Gate is operated with an electric XP actuator. HD dust-tight construction w/ cam followers and lined through out with 1/4" thick ceramic liner. Full open & full closed gate operation as well as metering control with potentiometer.			
		XV	- 203.10	1	Electric Actuator	HCC		Linear Actuator	230/460V/3PH	0.5		
		ZSC	- 203.11	1	Position Switch Closed	HCC			Proximity sensor			
		ZSO	- 203.12	1	Position Switch Open	HCC			Proximity sensor			
		ZT	- 203.13	1	% Meter	HCC			Potentiometer			4-20 ma
		TC	- 203.20	1	Temperature Monitoring Cable System	By Electrician						
5.00	300			156			1000			U.S. In A	LL COLLEGE	AUG EN LA
			- 204	1	Whole Grain Concrete Storage Interstice Bin #204	нсс		56sqft Dia. x 140ft Tall	6,000 Maximum "usable" Bushel Capacity based on Whole Grains and includes 3% adder for compaction factor.			
		LSH	- 204.01	1	High level switch	By Electrician			Point level control - Stop feed source & initiate shut down sequence	STATE OF		
		LT	204.02	1	Smart Bob	By Electrician			Level Indicator			
		EPG	- 204.03	1	Electric proportioning gate for Center Reclaim Discharge	нсс		20" square	Gate is operated with an electric XP actuator. HD dust-tight construction w/ cam followers and lined through out with 1/4" thick ceramic liner. Full open & full closed gate operation as well as metering control with potentiometer.			
		XV	- 204.10	1	Electric Actuator	HCC		Linear Actuator	230/460V/3PH	0.5		
		ZSC	- 204.11	1	Position Switch Closed	HCC			Proximity sensor			
			- 204.12	1	Position Switch Open	HCC			Proximity sensor			
			- 204.13	1	% Meter	HCC			Potentiometer	1.455		4-20 ma
			- 204.20	1	Temperature Monitoring Cable System	By Electrician				07/18/20		1201110
10000	Wall.			100								TO LEVEL TO SERVICE AND ADDRESS OF THE PARTY
			- 301	1	Whole Grain Concrete Storage Silo #301	нсс		42ft Dia. x 140ft Tall	170,000 Maximum "usable" Bushel Capacity based on Whole Grains and includes 6% adder for compaction factor.			
			- 301.01	1	High level switch	By Electrician			Point level control - Stop feed source & initiate shut down sequence	1977		
		LT	301.02	1	Smart Bob	By Electrician			Level Indicator			
Rev	N		- 301.10	4	Gravity Vent	Airlanco		24" dia				
			- 301.11	1	Roof Exhauster #1	Airlanco	_	24"	230/460V/3PH/60HZ - Explosion Proof	2.0		
			- 301.12	1	Roof Exhauster #2	Airlanco	-	24"	230/460V/3PH/60HZ - Explosion Proof	2.0		
			- 301.20	1	Concrete Aeration/Unloading Package	Airlanco	-	Luft Kanals	Aeration/Unloading Package - 1/10th CFM per BU aeration for Corn			
		FA	- 301.21	1	Fan with motor	Airlanco	₩		230V/460V/3PH/60HZ	60.0		
		EPG	- 301.30	1	Electric proportioning gate for Center Reclaim Discharge	нсс		24" square	Gate is operated with an electric XP actuator. HD dust-tight construction w/ cam followers and lined through out with 1/4" thick ceramic liner. Full open & full closed gate operation as well as metering control with potentiometer.			
		XV	- 301.31	1	Electric Actuator	HCC		Linear Actuator	230/460V/3PH	0.5		
		ZSC	- 301.32	1	Position Switch Closed	HCC			Proximity sensor	19.00		
		ZSO	- 301.33	1	Position Switch Open	HCC			Proximity sensor			
		ZT	- 301.34	1	% Meter	HCC			Potentiometer	60000		4-20 ma
			- 301.40	1	Temperature Monitoring Cable System	By Electrician				(- 1 - 10 LUC)		
		EPG	- 301,50	1	Electric proportioning gate for Side Tap Discharge to BE-302 Receiving Leg	нсс		18" square	Gate is operated with an electric actuator. HD dust-tight construction w/ cam followers and lined through out with 1/4" thick ceramic liner. Full open & full closed gate operation as well as metering control with potentiometer.			

Owner: Dakota Plains Ag Center, LLC Location: Utica, SD

Project Number

								Revision	n: N			
Del &	REV NO.	PREFIX -	NUMBER	QTY	DESCRIPTION- Concrete 6-pack, (4) Interstice Bins 1/10 CFM on concrete 6-pack & 1 Ground Pile & a 10,000 BPH dryer system	MANUFACTU RER	P.O .#	MODEL No. & SIZE	DESIGN/ CAPACITY/ CONSTRUCTION	НР		OUTPU' SIGNAL
		XV -	301.51	1	Electric Actuator	HCC		Linear Actuator	230/460V/3PH	0.5		
		ZSC -	301.52	1	Position Switch Closed	HCC						
		ZSO -		1	Position Switch Open	HCC						
	\Box	ZT -		1	% Meter	HCC	П		Potentiometer			4-20 ma
		EPG -		1	Electric proportioning gate for Side Tap Discharge to BC-700 Wet Belt Conveyor	нсс		18" square	Gate is operated with an electric actuator. HD dust-tight construction w/ cam followers and lined through out with 1/4" thick ceramic liner. Full open & full closed gate operation as well as metering control with potentiometer.			
		XV -	301.61	1	Electric Actuator	HCC		Linear Actuator	230/460V/3PH	0.5		
		ZSC -	301.62	1	Position Switch Closed	HCC	П			Maria Maria		
		ZSO -	301.63	1	Position Switch Open	HCC	П					
		ZT -		1	% Meter	HCC	\Box		Potentiometer			4-20 ma
	7783.1			D. Holle		V. Santa Maria	11/2			installation		1201110
		SS -		1	Whole Grain Concrete Storage Silo #302	нсс		42ft Dia. x 140ft Tall	170,000 Maximum "usable" Bushel Capacity based on Whole Grains and includes 6% adder for compaction factor.			
		LSH -	OUL.UI	1	High level switch	By Electrician			Point level control - Stop feed source & initiate shut down sequence	LESS HOLE		
		LT	302.02	1	Smart Bob	By Electrician			Level Indicator	BALLON		
Rev	N	RE -		4	Gravity Vent	Airlanco		24" dia				
		RE -		1	Roof Exhauster #1	Airlanco		24"	230/460V/3PH/60HZ - Explosion Proof	2.0		
		RE -	302.12	1	Roof Exhauster #2	Airlanco		24"	230/460V/3PH/60HZ - Explosion Proof	2.0		
		SS -		1	Concrete Aeration/Unloading Package	Airlanco		Luft Kanals	Aeration/Unloading Package - 1/10th CFM per BU aeration for Corn			
		FA -	302.21	1	Fan with motor	Airlanco			230V/460V/3PH/60HZ	60.0		
		EPG -		1	Electric proportioning gate for Center Reclaim Discharge	нсс		24" square	Gate is operated with an electric XP actuator. HD dust-tight construction w/ cam followers and lined through out with 1/4" thick ceramic liner. Full open & full closed gate operation as well as metering control with potentiometer.			
		XV -		1	Electric Actuator	HCC		Linear Actuator	230/460V/3PH	0.5		
		ZSC -		1	Position Switch Closed	HCC			Proximity sensor	September 1		
			302.33	1	Position Switch Open	HCC			Proximity sensor	E. S. Succession		
			302.34	1	% Meter	HCC			Potentiometer			4-20 ma
		TC -	302.40	1	Temperature Monitoring Cable System	By Electrician						
		EPG -	302.50	1	Electric proportioning gate for Side Tap Discharge to BC-700 Wet Belt Conveyor	нсс		18" square	Gate is operated with an electric actuator. HD dust-tight construction w/ cam followers and lined through out with 1/4" thick ceramic liner. Full open & full closed gate operation as well as metering control with potentiometer.			
		XV -	302.51	1	Electric Actuator	HCC		Linear Actuator	230/460V/3PH	0.5		1
			302.52	1	Position Switch Closed	HCC						1
		ZSO -		1	Position Switch Open	HCC						1
		ZT -		1	% Meter	HCC			Potentiometer			4-20 ma
Pose:	Blogy	PARTY COUNTY		No.							CONTRACTOR OF THE PARTY OF THE	
		SS -	- 303	1	Whole Grain Concrete Storage Silo #303	нсс		42ft Dia. x 140ft Tall	170,000 Maximum "usable" Bushel Capacity based on Whole Grains and includes 6% adder for compaction factor.			
		LSH -	000.01	1	High level switch	By Electrician			Point level control - Stop feed source & initiate shut down sequence	100000		
		LT	303.02	1	Smart Bob	By Electrician			Level Indicator			
Rev	N	RE -		4	Gravity Vent	Airlanco		24" dia		15 S 5 7		
		RE -	000.11	1	Roof Exhauster #1	Airlanco		24"	230/460V/3PH/60HZ - Explosion Proof	2.0		
		RE -		1	Roof Exhauster #2	Airlanco		24"	230/460V/3PH/60HZ - Explosion Proof	2.0		
		SS -			Concrete Aeration/Unloading Package	Airlanco		Luft Kanals	Aeration/Unloading Package - 1/10th CFM per BU aeration for Corn			
		FA -	303.21	1	Fan with motor	Airlanco			230V/460V/3PH/60HZ	60.0		
		EPG -	- 303.30	1	Electric proportioning gate for Center Reclaim Discharge	нсс		24" square	Gate is operated with an electric XP actuator. HD dust-tight construction w/ cam followers and lined through out with 1/4" thick ceramic liner. Full open & full closed gate operation as well as metering control with potentiometer.			
		XV -	- 303.31	1	Electric Actuator	HCC		Linear Actuator	230/460V/3PH	0.5		1
			303.32	1	Position Switch Closed	HCC			Proximity sensor			
		ZSO -		1	Position Switch Open	HCC			Proximity sensor			
		ZT -		1	% Meter	HCC			Potentiometer			4-20 ma

PRELIMINARY MOTOR AND DEVICE LIST Owner: Dakota Plains Ag Center, LLC Location: Utica, SD **Project Number** Date: December 4, 2015 Revision: N REV DESCRIPTION- Concrete 6-pack, (4) Interstice Bins Rev. MANUFACTU P.O SUPPLY OUTPUT MODEL No. & SIZE NUMBER QTY 1/10 CFM on concrete 6-pack & 1 Ground Pile & a **DESIGN/ CAPACITY/ CONSTRUCTION** Del 8 PREFIX -RER VOLTS SIGNAL 10,000 BPH dryer system Add NO. Gate is operated with an electric XP actuator. HD dust-tight construction w/ Electric proportioning gate for Side Tap Discharge to - 303.50 HCC 18" square EPG cam followers and lined through out with 1/4" thick ceramic liner. Full open & BC-700 Wet Belt Conveyor full closed gate operation as well as metering control with potentiometer. HCC 230/460V/3PH 0.5 XV - 303.51 Electric Actuator Linear Actuator HCC ZSC - 303.52 Position Switch Closed 1 ZSO -303.53 Position Switch Open HCC HCC Potentiometer ZT - 303.54 % Meter 4-20 ma GP - 501 Ground Pile 435' dia 3,656,750 Maximum Bushel Capacity based on Whole Grains. GP - 501.01 2 460/3PH/60Hz Brake motors for Winches Nema 4 Enclosure, Magnetic Reversing Starter, Nema 4 Operator Station Add N - 501.02 2 Electric Winch Control Panels ? w/momentary contact, Selector switch to operate winches individually or all at one time. FA - 501.03 Fan with motor w/VFD 230V/460V/3PH/60HZ 60.0 FA - 501.04 Fan with motor w/VFD 230V/460V/3PH/60HZ 60.0 FA - 501.05 1 Fan with motor w/VFD 2 230V/460V/3PH/60HZ 60.0 FA -501.06 Fan with motor w/VFD 230V/460V/3PH/60HZ 60.0 PLC based multi functional system with operating modes which include: mode which automatically controls fan speed utilizing variable speed drive will start or stop aeration fans based upon wind speed to hold the cover down fill mode which automatically controls fan speed utilizing variable speed drive will start or stop aeration fans based upon wind speed to hold the cover down Add 501 07 Automated Fan Controller System ? Fill mode which allows user to operate fans manually during filling. Cool down/aeration mode which the operator manually puts in the hours to operate the fans and then automatically goes back to maintenance mode when cycle is done. Built in fail safe: If a fan fails, another fan will start and an LED strobe light will flash to alert operator of an alarm condition. 501.08 1 Heavy Duty Wind Meter MG 501.10 Manual Gate HCC 14" square Gate is operated with an electric XP actuator. HD dust-tight construction w/ Electric proportioning gate for Center Reclaim HCC EPG - 501.20 24" square cam followers and lined through out with 1/4" thick ceramic liner. Full open & Discharge full closed gate operation as well as metering control with potentiometer. XV - 501.21 HCC Linear Actuator 230/460V/3PH 0.5 1 Electric motor ZSC -501.22 1 Position Switch Closed HCC Limit Switch ZSO - 501.23 1 Position Switch Open HCC Limit Switch ZT - 501.25 HCC % Meter 4-20 ma Potentiometer Gate is operated with an electric XP actuator. HD dust-tight construction w/ Electric proportioning gate for Center Reclaim HCC FPG - 501.30 24" square cam followers and lined through out with 1/4" thick ceramic liner. Full open & Discharge full closed gate operation as well as metering control with potentiometer. XV - 501.31 230/460V/3PH Electric motor HCC Linear Actuator 0.5 ZSC 501.32 Position Switch Closed HCC Limit Switch 501.33 Position Switch Open HCC imit Switch 501.35

Potentiometer

HCC

ZT

% Meter

Owner: Dakota Plains Ag Center, LLC

Location: Utica, SD

Project Number

				Access to the second second			Revision	e: December 4, 2015 n: N			
Del &	REV NO.	PREFIX - NUMBER	QTY	DESCRIPTION- Concrete 6-pack, (4) Interstice Bins 1/10 CFM on concrete 6-pack & 1 Ground Pile & a 10,000 BPH dryer system	MANUFACTU RER	P.O .#	MODEL No. & SIZE	DESIGN/ CAPACITY/ CONSTRUCTION	НР		OUTPUT
		EPG - 501.40	1	Electric proportioning gate for Center Reclaim Discharge	нсс		24" square	Gate is operated with an electric XP actuator. HD dust-tight construction w/ cam followers and lined through out with 1/4" thick ceramic liner. Full open & full closed gate operation as well as metering control with potentiometer.			
		XV - 501.41	1	Electric motor	HCC		Linear Actuator	230/460V/3PH	0.5		
		ZSC - 501.42	1	Position Switch Closed	HCC	_		Limit Switch			
		ZSO - 501.43	1	Position Switch Open	HCC	<u> </u>		Limit Switch			
		ZT - 501.45	1	% Meter	HCC	┈		Potentiometer			4-20 ma
		EPG - 501.50	1	Electric proportioning gate for Center Reclaim Discharge	нсс		24" square	Gate is operated with an electric XP actuator. HD dust-tight construction w/ cam followers and lined through out with 1/4" thick ceramic liner. Full open & full closed gate operation as well as metering control with potentiometer.			
		XV - 501.51	1	Electric motor	HCC		Linear Actuator	230/460V/3PH	0.5		
		ZSC - 501.52	1	Position Switch Closed	HCC			Limit Switch			
		ZSO - 501.53	1	Position Switch Open	HCC	-		Limit Switch			100
		ZT - 501.55	1	% Meter	HCC	-	4.40	Potentiometer			4-20 ma
		MG - 501.60	1	Manual Gate	HCC	1-	14" square				-
\vdash	_	MG - 501.61 MG - 501.62	1	Manual Gate Manual Gate	HCC HCC	1	14" square 14" square				
	_	MG - 501.62 MG - 501.63	1	Manual Gate Manual Gate	HCC	╫	14" square			-	-
\vdash	_	MG - 501.64	1	Manual Gate Manual Gate	HCC	╫	14" square		A CONTRACTOR OF THE PARTY OF TH	-	1
		WIG - 301.04	1	Walidal Gate	1100		14 Square			STATE OF THE PARTY	
				RECLAIM & LOAD OUT SYSTEM				Capacities listed are based upon Whole Grains @ 60 lbs/bu			
CHOOL STATE	350				A STATE OF THE STATE OF					Barrier S	
		BC - 550	1	Ground Pile Reclaim Belt	HiRoller		Model 42 HiLife	40,000 BPH, 650 FPM max, Drive Shaft 118.23 RPM, single Falk 5307JR14 Class 2 HTD reducer Belt drive at head, Manual take-up at tail, conveyor has a 1 degree incline			
		BC - 550.01	1	Electric motor for belt	нсс			Premium efficient motor, 1750 RPM, EXP with 1.15 SF. 440V/3PH/60HZ, located at head.	75.0		
		TE - 550.10	1	Bearing temp sensor on Tail pulley bearing	By Electrician			NEMA 9	(1)		
		TE - 550.11	1	Bearing temp sensor on Tail pulley bearing	By Electrician			NEMA 9			
		TE - 550.12	1	Bearing temp sensor on Head pulley bearing	By Electrician			NEMA 9			
\vdash		TE - 550.13 BAS - 550.20	1	Bearing temp sensor on Head pulley bearing	By Electrician			NEMA 9 NEMA 9			
		BAS - 550.20 BAS - 550.21	1	Belt alignment sensor at Tail Belt alignment sensor at Tail	By Electrician By Electrician		-	NEMA 9		-	
$\vdash \vdash \vdash$	-	BAS - 550.21	1	Belt alignment sensor at Head	By Electrician			NEMA 9			
		BAS - 550.23	1	Belt alignment sensor at Head	By Electrician			NEMA 9	1		
		SSL - 550.30	1	Motion Sensor at Tail Shaft	By Electrician			NEMA 9			
		SSL - 550.31	1	Motion sensor on boot shaft for HOA	By Electrician			NEMA 9			
		LSH - 550.40	1	Discharge Pressure Plug Switch	HiRoller		Binatrol Model GX	Plug Switch located in discharge head section	STATE BUT		
		CT - 550.50	1	Current Transformer	By Electrician						4-20mA
		BC - 601	1	Concrete Silo Reclaim Belt	HiRoller		Model 42 HiLife	40,000 BPH, 650 FPM max, Drive Shaft 165.52 RPM, single Falk 5215JR09 Class 2 HTD reducer Belt drive at head, Manual take-up at tail, conveyor is horizontal			
		BC - 601.01	1	Electric motor for belt	нсс			Premium efficient motor, 1750 RPM, EXP with 1.15 SF. 440V/3PH/60HZ, located at head.	40.0		
		XV - 601.11	1	Electric Actuator	HiRoller	-	Linear Actuator	230/460V/3PH	1.0		
Rev	N	ZSC - 601.12	1	Position Switch Closed	HiRoller	-	Model 11	Go Switch	4000		
Rev	N	ZSO - 601.13	1	Position Switch Open	HiRoller	4—	Model 11	Go Switch			
Add	N	ZSC - 601.14	1	Position Switch Closed	HiRoller	-	Model 11	Go Switch			-
Add Rev	N N	ZSO - 601.15 ZT - 601.16	1	Position Switch Open % Meter	HiRoller HiRoller	╢	Model 11	Go Switch	THE RESERVE		4 20 ===
Rev	N	ZT - 601.16 TE - 601.20	1	Bearing temp sensor on Tail pulley bearing	By Electrician	1		Potentiometer NEMA 9			4-20 ma
Rev	N	TE - 601.20	1	Bearing temp sensor on Tail pulley bearing Bearing temp sensor on Tail pulley bearing	By Electrician			NEMA 9		0	-
Rev	N	TE - 601.21	1	Bearing temp sensor on Head pulley bearing	By Electrician			NEMA 9		1	-
Rev	N	TE - 601.23	1	Bearing temp sensor on Head pulley bearing	By Electrician			NEMA 9			1
Rev	N	BAS - 601.30	1	Belt alignment sensor at Tail	By Electrician			NEMA 9			
Rev	N	BAS - 601.31	1	Belt alignment sensor at Tail	By Electrician			NEMA 9	PORL		
1704 1		BAS - 601.32	1	Belt alignment sensor at Head	By Electrician		1	NEMA 9			

Owner: Dakota Plains Ag Center, LLC

Location: Utica, SD **Project Number**

									Revision:	N			
Rev, Del & Add		PREFIX		NUMBER	QTY	DESCRIPTION- Concrete 6-pack, (4) Interstice Bins 1/10 CFM on concrete 6-pack & 1 Ground Pile & a 10,000 BPH dryer system	MANUFACTU RER	P.O .#	MODEL No. & SIZE	DESIGN/ CAPACITY/ CONSTRUCTION	НР	SUPPLY VOLTS	OUTPU
Rev	N	BAS	-	601.33	1	Belt alignment sensor at Head	By Electrician			NEMA 9	GAN TAKE		
Rev	N	SSL	-	601.40	1	Motion Sensor at Tail Shaft	By Electrician			NEMA 9			
Rev	N	SSL		601.41	1	Motion sensor on boot shaft for HOA	By Electrician			NEMA 9			
Rev	N	LSH	-	601.50	1	Discharge Pressure Plug Switch	HiRoller		Binatrol Model GX	Plug Switch located in discharge head section			
Rev	N	LSH	18	601.60	1	Discharge Pressure Plug Switch	HiRoller		Binatrol Model GX	Plug Switch located in discharge head section	Political Inc.		
Rev	N	CT		601.70	1	Current Transformer	By Electrician				Land State L		4-20m/
	2177	BE	-	605	1	Loadout/Receiving Bucket Elevator	Intersystems		GE4866	40,000 BPH, 699 FPM max, 54.5 RPM, Class V Falk M165VR3-A-32.584:1 drive at head, screw take-up at boot, shovel pockets, inlet, boot & head section lined w/ 1/4" ceramic,explosion panels, 48" dia. pulleys & mechanical belt splice. R&P Cleanout Gates in boot section. Designed for Whole Grains.		med Athy	
		BE	-	605.01	1	Electric Motor for Bucket Elevator	нсс			Premium efficent motor, 1750 RPM, TEFC with 1.15 SF. 460V/3PH/60HZ, located at head.	350.0		
		TE	:-:	605.10	1	Bearing temp sensor on Boot pulley bearing	By Electrician			NEMA 9			
		TE	-	605.11	1	Bearing temp sensor on Boot pulley bearing	By Electrician			NEMA 9	ALC: N		
		TE		605.12	1	Bearing temp sensor on Head pulley bearing	By Electrician			NEMA 9			
		TE	-	605.13	1	Bearing temp sensor on Head pulley bearing	By Electrician			NEMA 9	F. 1500		
Rev	N	BAS	-	605.20	1	Belt alignment sensor at Boot Upside	By Electrician			NEMA 9			1
Rev	N	BAS	-	605.21	1	Belt alignment sensor at Boot Upside	By Electrician			NEMA 9	1500000		
Add		BAS	-		1	Belt alignment sensor at Boot Downside	By Electrician			NEMA 9	The state of		1
Add		BAS	-	605.23	1	Belt alignment sensor at Boot Downside	By Electrician			NEMA 9			1
Rev	N	BAS		605.24	1	Belt alignment sensor at Head Upside	By Electrician			NEMA 9			1
Rev		BAS	-		1	Belt alignment sensor at Head Upside	By Electrician			NEMA 9			1
Add	N	BAS	-	605.26	1	Belt alignment sensor at Head Downside	By Electrician			NEMA 9			_
Add		BAS	-	605.27	1	Belt alignment sensor at Head Downside	By Electrician			NEMA 9	The second second	_	
Muu	18	SSL	-	605.30	1	Motion sensor on boot shaft	By Electrician			NEMA 9		_	_
	-	LSH		605.40	1			-	BinMaster 65DFHT DBDT				╂——
-					_	Discharge plug sensor	Intersystems	-		Plug Switch located in leg head discharge			-
Kev	N	MG	-	605.50	1	Manual Magnet	Intersystems	-	SMC06-58"	WEAR O.L. 11 O. 11 L			
Add		ZSC		605.51	1	Position Switch Closed	Intersystems	-		NEMA 9 Limit Switch			
Rev	N	ZSO	-	605.52	1	Position Switch Open	Intersystems	-		NEMA 9 Limit Switch			-
		СТ	•	605.70	1	Current Transformer	By Electrician						4-20mA
Rev	N	EOV	-	606	1	Electric Two-Way Slide Gate Valve	нсс	Transient.	26" sq. 'K' style, 45 deg.	40,000 BPH, Each gate is operated with an electric actuator. HD dust-tight construction w/ cam followers and lined through out with 1/4" thick Ceramic liner. Full open & full closed gate operation.			
Rev	N	XV	-	606.10	1	Electric Andco Actuator	HCC		Linear Actuator	230/460V/3PH	1.0		
Rev	N	ZSC	-	606.11	1	Position Switch Closed	HCC			Go Switch			
Rev	N	ZSO	-	606.12	1	Position Switch Open	HCC			Go Switch	Denniemi.		
Add	N	XV	-	606.13	1	Electric Andco Actuator	HCC		Linear Actuator	230/460V/3PH	1.0		
Rev	N	ZSC	-	606.14	1	Position Switch Closed	HCC			Go Switch			
Rev	N	ZSO	-	606.15	1	Position Switch Open	HCC			Go Switch			
Rev	N	EOV			1	Electric Two-Way Slide Gate Valve	нсс		26" sq. 'K' style, 45 deg.	40,000 BPH, Each gate is operated with an electric actuator. HD dust-tight construction w/ cam followers and lined through out with 1/4" thick Ceramic liner. Full open & full closed gate operation.			
Rev	N			607.10	1	Electric Andco Actuator	HCC		Linear Actuator	230/460V/3PH	1.0		
Rev		ZSC	-		1	Position Switch Closed	HCC			Go Switch			
Rev		ZSO	-	607.12	1	Position Switch Open	HCC			Go Switch			
Add		XV			1	Electric Andco Actuator	HCC		Linear Actuator	230/460V/3PH	1.0		
Rev	N	ZSC		607.14	1	Position Switch Closed	HCC			Go Switch	200		1
Rev	N	ZSO	-	607.15	1	Position Switch Open	HCC			Go Switch			
		DC	•	608	1	Loadout/Distribution Drag Conveyor	Intersystems	12.3	EMC2526-P	20,000 BPH, 137 FPM max, final drive RPM 26.73, single Falk 5407J Class 2 HTD Belt drive at head, Manual take-up at tail, designed for whole grains, conveyor is horizontal			
		DC		608.01	1	Electric motor for conveyor	Intersystems			Premium efficient motor, 1750 RPM, XP with 1.15 SF. 480V/3PH/60HZ, located at head.	25.0		
	_	TE		608.10	1	Bearing temp sensor on Head bearing	By Electrician			NEMA 9	1913000		
	II	TE	-	608.11	1	Bearing temp sensor on Head bearing	By Electrician			NEMA 9	The second second		

Owner: Dakota Plains Ag Center, LLC

Location: Utica, SD Project Number

Date: December 4, 2015

								Revision				
Del &	REV NO.	PREFIX -	NUMBER	QTY	DESCRIPTION- Concrete 6-pack, (4) Interstice Bins 1/10 CFM on concrete 6-pack & 1 Ground Pile & a 10,000 BPH dryer system	MANUFACTU RER	P.O . #	MODEL No. & SIZE	DESIGN/ CAPACITY/ CONSTRUCTION	HP		OUTPU' SIGNAL
		TE	608.12	1	Bearing temp sensor on Tail bearing	By Electrician			NEMA 9			
		TE -	608.13	1	Bearing temp sensor on Tail bearing	By Electrician			NEMA 9	W. S. 2003		
Rev	N	LSH -	608.20	1	Plug switch on Head section	Intersystems			Go Switch			
		SSL -	608.30	1	Motion Sensor at Tail Shaft	By Electrician			NEMA 9			
		TS -	608.40	1	Slack chain detector switch	Intersystems			NEMA 9			
		CT -	608.50	1	Current Transformer	By Electrician						4-20mA
1:5:3							100					
		DC -	609	1	Loadout/Distribution Drag Conveyor	Intersystems		EMC2526-P	20,000 BPH, 137 FPM max, final drive RPM 26.73, single Falk 5407J Class 2 HTD Belt drive at head, Manual take-up at tail, designed for whole grains, conveyor is horizontal			
		DC -	609.01	1	Electric motor for conveyor	Intersystems			Premium efficient motor, 1750 RPM, XP with 1.15 SF. 480V/3PH/60HZ, located at head.	25.0		
		TE -	609.10	1	Bearing temp sensor on Head bearing	By Electrician			NEMA 9	NA CALLES		
		TE -	609.11	1	Bearing temp sensor on Head bearing	By Electrician			NEMA 9			
		TE	609.12	1	Bearing temp sensor on Tail bearing	By Electrician			NEMA 9	Gig E.		
		TE -	609.13	1	Bearing temp sensor on Tail bearing	By Electrician			NEMA 9	THE WAY		
Rev	N	LSH -	609.20	1	Plug switch on Head section	Intersystems			Go Switch			
		SSL -	609.30	1	Motion Sensor at Tail Shaft	By Electrician			NEMA 9			
		TS -	609.40	1	Slack chain detector switch	Intersystems			NEMA 9			
		CT -	609.50	1	Current Transformer	By Electrician				THE PARTY OF		4-20mA
II III	NO.									AT THE REAL PROPERTY.		water to
		GS -	610	1	Gravity Screener	Intersystems		PC-40000	Screening Capacity 40,000 BPH Internal By-Pass Capacity 60,000 BPH Maximum Flow Rate 60,000 BPH,Gravity Clean			
	E 1100	GS -	610.10	1	Manual internal bypass	Intersystems				Marine Control		
		SC -	610.1	1	Screw Conveyor	HCC	1	12"dia x 10'-0" Long	1,000 BPH, Screw Conv.			
		SC -	610.11	1	Electric motor for conveyor	нсс			Premium efficient motor, 1750 RPM, XP with 1.15 SF. 480V/3PH/60HZ, located at head.	5.0		
		TE -	610.12	1	Bearing temp sensor on Head bearing	By Electrician			NEMA 9	Turistics.		
		TE	610.13	1	Bearing temp sensor on Tail bearing	By Electrician			NEMA 9	20 To 10 To		
		LSH -	610.14	1	Plug switch on Head section	By Electrician			NEMA 9	- Control		1
-	\vdash	SSL -	610.15	1	Motion Sensor at Tail Shaft	By Electrician		1	NEMA 9			1
	_	CT -	610.16	1	Current Transformer	By Electrician			INCINIA 3			4-20mA
Carrier Co.			010.10		Carlett Transformer	By Electrician						T LOTTE
	Description of the last of the	BW -	612	1	Rail Load Out Bulk Weighing Scale System	Intersystems			100,000 BPH, 50,400# Drafts			
-	_	DVV -	612.01	1	MasterWeigh Infinity Plus Scale Control System	Intersystems			100,000 Bi II, 00,400# Biaks			_
-	_		612.02	1	Rail Car Tag Reader	Intersystems		SmartPass RFID	120VAC/18VDC	-	_	1
_	_	BW -	401.00	1	Upper garner	HCC	╫	11,756 Bu	1204A0/104B0		_	1
-	_	LSH -		1	High level switch for upper garner	By Electrician	1	11,730 Bu	Point level control.			
	_	LSL -	401.11	1	Low level switch for upper garner	Intersystems			Point level control.			-
		HG -	pet feet feet peg feet.	1	Hydraulic ladder gate for upper garner	Intersystems		74" x 84"	Gate is operated with an hydraulic cylinder. HD dust-tight construction w/ cam followers and lined through out with 1/4" thick ceramic liner. Full open & full closed gate operation.			
		XV -	611.01	1	Electric double acting solenoid valve	Intersystems			230/460V/3PH	1.0		
		ZSC -	611.02	1	Position Switch Closed	Intersystems			Proximity sensor			
			611.03	1	Position Switch Open	Intersystems			Proximity sensor	33 SAIC		
Del	N	ZT -	611.04	10	Potentiometer	Intersystems			Potentiometer			4-20 ma
			612.00	1	Weigh hopper	Intersystems		1,177 CF		E 18 18 18 18		
		LSH -	612.11	1	High level switch for weigh hopper	Intersystems			Point level control.	14.35.356		
		LSL -	612.12	1	Low level switch for weigh hopper	Intersystems			Point level control.	No. of Lot		
Add	N		612.13	4	Load Cells	Intersystems		20,000 lb/Each				
		TW -		4	Scale test weights	Intersystems		2000 lb Class F	Cast iron, painted, with traceable certificates	de men	9	
		TWL -		1	Test weight Hydraulic lift system	Intersystems				15,215,61		
-			612.30	1	Hydraulic Power Unit	Intersystems			30 GPM Pump	20.0		1
_		HP -		1	High/Low Temperature Level Switch	Intersystems		1		20.0		
Add	M	HP -		1	Power Unit Heater	Intersystems	1		750 Watt / 115 Volt			
Add	IN	HG -		1	Hydraulic gate for Bulk Weigher	Intersystems	1		Gate is operated with an hydraulic cylinder. HD dust-tight construction w/ cam followers and lined through out with 1/4" thick ceramic liner. Full open & full closed gate operation.			

PRELIMINARY MOTOR AND DEVICE LIST Owner: Dakota Plains Ag Center, LLC Location: Utica, SD **Project Number** Date: December 4, 2015 Revision: N REV DESCRIPTION- Concrete 6-pack, (4) Interstice Bins SUPPLYOUTPUT MANUFACTU P.O Del 8 PREFIX -NUMBER QTY 1/10 CFM on concrete 6-pack & 1 Ground Pile & a MODEL No. & SIZE DESIGN/ CAPACITY/ CONSTRUCTION RER VOLTS SIGNAL Add NO. 10,000 BPH dryer system - 613.01 Electric double acting solenoid valve 230/460V/3PH 1.0 Intersystems ZSC - 613.02 1 Position Switch Closed Intersystems Proximity sensor ZSO 1 Position Switch Open Intersystems Proximity sensor - 613.03 BW - 613.40 Middle Lower garner Intersystems 1,230 CF LSL - 613.41 Low level switch for Lower Garner Intersystems Point level control. Gate is operated with an electric actuator. HD dust-tight construction w/ cam Electric proportioning gate for BW Surge Hopper followers and lined through out with 1/4" thick ceramic liner. Full open & full FPG - 614.00 Intersystems 42" square Discharge closed gate operation as well as metering control with potentiometer. 230/460V/3PH 1.0 XV - 614.01 1 Electric actuator Intersystems Linear Actuator ZSC - 614.10 Position Switch Closed Intersystems Limit Switch, Nema 4 Intersystems Limit Switch, Nema 4 ZSO - 614.11 1 Position Switch Open - 614.12 4-20 ma 1 Potentiometer Intersystems Potentiometer GRE 90 SA 615 1 Sampler System Intersystems 100,000 BPH, Rotary Cross Cut, 42" sq. - 615.10 1 Intersystems 230/460V, 3PH/Nema 9 1.0 XV Electric Motor ZSC - 615.11 1 Position Switch Closed Intersystems Limit Switch, Nema 9 ZSO - 615.12 1 Position Switch Open Intersystems Limit Switch, Nema 9 Digital Timer Control Panel Intersystems 615.13 1 Nema 12 MD1000 120V / 1PH / .6Amp / 60Hz / Nema 9 MD 615.14 1 Mechanical Divider Intersystems Collection cabinet in FGIS room 1 Intersystems 615.15 Electric 615.16 1 Collection cabinet in Owner loadout control room Intersystems Gate is operated with an hydraulic cylinder. HD dust-tight construction w/ 616.00 Hydraulic gate for Diverter Intersystems 42" Sq cam followers and lined through out with 1/4" thick ceramic liner. Full open & full closed gate operation as well as metering control with potentiometer. XV - 616.10 1 Electric double acting solenoid valve Intersystems 230/460V/3PH 1.0 ZSC - 616.11 1 Position Switch Closed Intersystems Proximity sensor Position Switch Open Intersystems ZSO - 616.12 1 Proximity sensor 616.13 1 Potentiometer Intersystems Potentiometer 4-20 ma ZT Gate is operated with an hydraulic cylinder. HD dust-tight construction w/ Hydraulic gate for Diverter 42" Sq cam followers and lined through out with 1/4" thick ceramic liner. Full open & HPG -617.00 Intersystems full closed gate operation as well as metering control with potentiometer. Electric double acting solenoid valve 230/460V/3PH 1.0 XV - 617.10 1 Intersystems 617.11 1 Position Switch Closed Intersystems Proximity sensor ZSO Intersystems - 617.12 1 Position Switch Open Proximity sensor 617.13 4-20 ma ZT 1 Potentiometer Intersystems Potentiometer SB - 402.00 HCC 4,416 Bu 1 Lower garner LSH - 402.11 LSL - 402.12 High level switch for Lower Garner By Electrician Point level control. By Electrician Low level switch for Lower Garner Point level control. Gate is operated with an hydraulic cylinder. HD dust-tight construction w/ Hydraulic gate for Lower Garner Intersystems 24" x 60" HPG - 618.00 cam followers and lined through out with 1/4" thick ceramic liner. Full open & full closed gate operation as well as metering control with potentiometer. 230/460V/3PH XV - 618.10 Electric double acting solenoid valve Intersystems 1.0 ZSC - 618.11 1 Position Switch Closed Intersystems Proximity sensor ZSO - 618.12 1 Position Switch Open Intersystems Proximity sensor - 618.13 Potentiometer Intersystems Potentiometer 4-20 ma ZT SB - 403.00 1 Lower garner HCC 4,416 Bu

Point level control.

Point level control.

By Electrician

By Electrician

LSH - 403.10

LSL - 403.11

High level switch for Lower Garner

Low level switch for Lower Garner

Owner: Dakota Plains Ag Center, LLC

Location: Utica, SD

Project Number

Date: December 4, 2015

								Revision	***			
Del &	REV NO.	PREFIX	- NUMBER	QTY	DESCRIPTION- Concrete 6-pack, (4) Interstice Bins 1/10 CFM on concrete 6-pack & 1 Ground Pile & a 10,000 BPH dryer system	MANUFACTU RER	P.O . #	MODEL No. & SIZE	DESIGN/ CAPACITY/ CONSTRUCTION	НР		OUTPU
		HPG	- 619.00	1	Hydraulic gate for Lower Garner	Intersystems		24" x 60"	Gate is operated with an hydraulic cylinder. HD dust-tight construction w/ cam followers and lined through out with 1/4" thick ceramic liner. Full open & full closed gate operation as well as metering control with potentiometer.			
		XV	- 619.10	1	Electric double acting solenoid valve	Intersystems			230/460V/3PH	1.0		
		ZSC	- 619.11	1	Position Switch Closed	Intersystems			Proximity sensor	A STATE OF THE PARTY OF THE PAR		
		ZSO	- 619.12	1	Position Switch Open	Intersystems			Proximity sensor			
		ZT	- 619.13	1	Potentiometer	Intersystems			Potentiometer			4-20 ma
Add	N	HP	- 620.00	1	Hydraulic Power Unit	Intersystems			20 GPM Pump to serve HPG-618, HPG-619 & 3 Cylinders on Loadout Spout	10.0		
		SD	- 630.00	1	Sample Delivery System Pump	Intersystems		SD-3				
Rev	N		- 630.10	1	Electric motor for Pump	Intersystems			Premium efficient motor, 1750 RPM, XP with 1.15 SF, 230/460V/3PH	5.0		
Rev	N	RV	- 630.2	1	Airlock	Intersystems			230/460V/3PH, XP	0.3		
		B. Valladia								William !	Mark Sales	FERNIN
13 - 11		SS	- 670	1	Screenings Hopper Bin	HCC		12'-6" dia	2,000 Maximum Bushel Capacity			
		SC	- 672	1	Screw Conveyor	HCC		9" Dia	1,000 BPH, Screw Conv.			
								- Dia	Premium efficient motor, 1750 RPM, XP with 1.15 SF. 480V/3PH/60HZ,			
			- 672.10 - 672.11	1	Electric motor for conveyor Bearing temp sensor on Head bearing	HCC By Electrician			located at head. NEMA 9	10.0		
	\vdash	TE	672.12	1	Bearing temp sensor on Tail bearing	By Electrician	\vdash		NEMA 9			
	-		- 672.13	1	Plug switch on Head section	By Electrician	\vdash		NEMA 9			-
	-		- 672.14	1	Motion Sensor at Tail Shaft	By Electrician	\vdash		NEMA 9			1
_	-		- 672.15	1	Current Transformer	By Electrician			INCINIA 9			4-20mA
THE OWNER WHEN		CI	- 6/2.15	ACCUSE NO.	Current Transformer	by Electrician	1000				PARTITION AND	4-20MA
	No.	TS	- 650	1	Rail Load Out Spout	нсс	-	CONTRACTOR OF STREET	100,000 bph capacity			
			- 650.10	1	Hydraulic Cylinder for Hinged Point	HCC	-		100,000 бри сараску		-	-
_			- 650.10	1	Electric double acting solenoid valve	HCC			230/460V/3PH	1.0		-
	-		- 650.12	1	Position Switch Closed	HCC			Proximity sensor	1.0	_	1
_			- 650.13	1	Position Switch Open	HCC			Proximity sensor			-
_			- 650.20	1	Hydraulic Cylinder for Retractable Spout	HCC			1 TOXITITY SETISOI			-
_			- 650.21	1	Electric double acting solenoid valve	HCC			230/460V/3PH	1.0	-	_
			- 650.22	1	Position Switch Closed	HCC			Proximity sensor	1.0	-	1
_			- 650.23	1	Position Switch Open	HCC			Proximity sensor		 	-
			- 650.30	1	Hydraulic Cylinder for Retractable Spout	HCC			Trovinity correct	A STATE OF THE STA		
			- 650.31	1	Electric double acting solenoid valve	HCC			230/460V/3PH	1.0		
			- 650.32	1	Position Switch Closed	HCC			Proximity sensor	1.0		
			- 650.33	1	Position Switch Open	HCC			Proximity sensor			1
			- 650.40	1	Electric Trolley	HCC			Trolley to move spout left and right	1.0		
5,400		SS	- 404	1	Truck Loadout Bin	нсс			15,650 Maximum Bushel Capacity based on Whole Grains and includes 6%			
		100	V250 6		AT M. COMPONENT PROPERTY.		₩		adder for compaction factor.			
		LSH	- 404.01	1	High level switch	By Electrician	₩		Point level control - Stop feed source & initiate shut down sequence			
	_		404.02	1	Smart Bob	By Electrician	-			HI PRINT		
		1112	- 404.10 - 404.20	1	Gravity Vent Hydraulic proportioning gate for Discharge	нсс		18" square	Gate is operated with an hydraulic cylinder. HD dust-tight construction w/ cam followers and lined through out with 1/4" thick ceramic liner. Full open & full closed gate operation as well as metering control with potentiometer.			
-	-	XV	- 404.21	1	Electric double acting solenoid valve	HCC	1		230/460V/3PH	0.5		1
			- 404.21	1	Position Switch Closed	HCC	1-		Proximity sensor	0.5	-	1-
			- 404.23	1	Position Switch Open	HCC	-		Proximity sensor		-	-
			- 404.24	1	% Meter	HCC	1		Potentiometer			4.20~4
			- 404.24	1	70 Merei	псс			r otentioniste:			4-20m/
		ss	- 405	1	Truck Loadout Bin	нсс			15,650 Maximum Bushel Capacity based on Whole Grains and includes 6% adder for compaction factor.			
		LSH	- 405.01	1	High level switch	By Electrician	1		Point level control - Stop feed source & initiate shut down sequence			_
_		20.7	405.02	1	Smart Bob	By Electrician			i on to to to the food source a limitate shat down sequence	TO INC.		
		RE	- 405.10	<u> </u>	Gravity Vent	HCC	II.			the second second second		

Owner: Dakota Plains Ag Center, LLC

Location: Utica, SD

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		HPG -	405.20	1	Hydraulic proportioning gate for Discharge	нсс		18" square	Gate is operated with an hydraulic cylinder. HD dust-tight construction w/ cam followers and lined through out with 1/4" thick ceramic liner. Full open & full closed gate operation as well as metering control with potentiometer.					
		XV -	405.21	1	Electric double acting solenoid valve	HCC			230/460V/3PH	0.5				
		ZSC -	405.22	1	Position Switch Closed	HCC			Proximity sensor					
		ZSO -		1	Position Switch Open	HCC			Proximity sensor					
		ZT -	405.24	1	% Meter	HCC			Potentiometer			4-20m		
144	dr. al						Ti I			Street, Street				
		SB -	410.00	1	Loadout Surge Hopper	HCC		1,162 CF						
		LSH -	110110	1	High level switch for upper garner	By Electrician			Point level control.					
		LSL -	410.11	1	Low level switch for upper garner	By Electrician			Point level control.					
		TW -		4	Scale test weights	HCC		1250 lb Class F	Cast iron, painted, with traceable certificates	HE STATE				
			410.20	1	Loadout Controls System	Electrician								
		HPG -	415.00	1	Hydraulic proportioning gate for Discharge	нсс		18" square	Gate is operated with an hydraulic cylinder. HD dust-tight construction w/ cam followers and lined through out with 1/4" thick ceramic liner. Full open & full closed gate operation as well as metering control with potentiometer.					
		XV -	415.10	1	Electric double acting solenoid valve	HCC			230/460V/3PH	0.5				
		ZSC -	415.11	1	Position Switch Closed	HCC			Limit Switch	F 18 19 19 19 19 19 19 19 19 19 19 19 19 19				
		ZSO -	415.12	1	Position Switch Open	HCC			Limit Switch	The same of				
		ZT -	415.13	1	% Meter	HCC			Potentiometer	Participa (4-20m		
Add	N	HP -	416.00	1	Hydraulic Power Unit	Intersystems			20 GPM Pump to serve HPG-404.20, HPG-405.20 & HPG-415.00	10.0				
14.3		SP -	420.00	1	Dustless Loudout Spout	Redwing	100	Model K-870	20,000 BPH Spout			The Assista		
				ATTIS			310				BELL BY	1		
					700 - GRAIN DRYING SYSTEM				Capacities listed are based upon Whole Grains @ 59 lbs/bu	100000				
		BC -	700	1	Concrete Silo Reclaim Wet Belt	HiRoller		Model 30 HiRoller	20,000 BPH, 700 FPM max, Drive Shaft 178.25 RPM, single Falk 5407JR09 Class 2 HTD reducer Belt drive at head, Manual take-up at tail, conveyor has a 3 degree incline					
		BC -	700.01	1	Electric motor for belt	HCC			Premium efficient motor, 1750 RPM, EXP with 1.15 SF. 440V/3PH/60HZ, located at head.	30.0				
		TE -	700.10	1	Bearing temp sensor on Tail pulley bearing	By Electrician			NEMA 9					
		TE -	700.11	1	Bearing temp sensor on Tail pulley bearing	By Electrician			NEMA 9	SHAME.				
		TE -	700.12	1	Bearing temp sensor on Head pulley bearing	By Electrician			NEMA 9	Name of Street				
		TE -	700.13	1	Bearing temp sensor on Head pulley bearing	By Electrician			NEMA 9	Marines .				
		BAS -	700.20	1	Belt alignment sensor at Tail	By Electrician			NEMA 9					
		BAS -	700.21	1	Belt alignment sensor at Tail	By Electrician			NEMA 9	EDOVACA	i.			
		BAS -	700.22	1	Belt alignment sensor at Head	By Electrician			NEMA 9					
		BAS -	700.23	1	Belt alignment sensor at Head	By Electrician			NEMA 9	33.00 m 35 m 32				
		SSL -	700.30	1	Motion Sensor at Tail Shaft	By Electrician			NEMA 9					
		SSL -		1	Motion sensor on boot shaft for HOA	By Electrician			NEMA 9					
		LSH -	700.40	1	Discharge Pressure Plug Switch	HiRoller		Binatrol Model GX	Plug Switch located in discharge head section					
Del	I N	CT -	700.50	1	Discharge Pressure Plug Switch Current Transformer	By Electrician			Plug Switch located in discharge head section			4-20m		
ev.	14		700.50	Shing	Current Hansionner	By Liectrician					THE PARTY	4-2011		
		BC -	701	1	Concrete Silo Reclaim Wet Belt	HiRoller		Model 30 HiRoller	20,000 BPH, 700 FPM max, Drive Shaft 178.25 RPM, single Falk 5115JR09 Class 2 HTD reducer Belt drive at head, Manual take-up at tail, conveyor is horizontal					
		BC -	100001010000	1	Electric motor for belt	нсс			Premium efficient motor, 1750 RPM, EXP with 1.15 SF. 440V/3PH/60HZ, located at head.	15.0				
		TE -		1	Bearing temp sensor on Tail pulley bearing	By Electrician	_		NEMA 9					
	-	TE -		1	Bearing temp sensor on Tail pulley bearing	By Electrician	_		NEMA 9	in the first section				
			701.12	1	Bearing temp sensor on Head pulley bearing	By Electrician			NEMA 9	1245	0			
			701.13	1	Bearing temp sensor on Head pulley bearing	By Electrician			NEMA 9	The United				
			701.20	1	Belt alignment sensor at Tail	By Electrician			NEMA 9	17776				
			701.21	1	Belt alignment sensor at Tail	By Electrician			NEMA 9		8			
		BAS -												
		BAS -		1	Belt alignment sensor at Head	By Electrician			NEMA 9					

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			- 701.30	1	Motion Sensor at Tail Shaft	By Electrician			NEMA 9			
			- 701.31	1	Motion sensor on boot shaft for HOA	By Electrician	_		NEMA 9			
Part	- AT	LSH	- 701.40	1	Discharge Pressure Plug Switch	HiRoller		Binatrol Model GX	Plug Switch located in discharge head section			
Pov	N.	CT	- 701.50	1	Current Transformer	By Electrician			Plug Switch located in discharge head section		A section	4-20mA
Nev.	- 1	0.	701.00		Odrient Hansionner	By Electrician					100000	4-2011A
		BE	- 702	1	Receiving/Wet Bucket Elevator	Intersystems		GE4838	20,000 BPH, 683 FPM max, Head Shaft 53.2 RPM, Class V Falk M155VR3-A-32.584:1 drive at head, screw take-up at boot, shovel pockets, inlet, boot & head section lined w/ 1/4" ceramic, explosion panels, 48" dia. pulleys & mechanical belt splice. R&P Cleanout Gates in boot section. Designed for Whole Grains.			
			- 702.01	1	Electric Motor for Bucket Elevator	нсс			Premium efficent motor, 1750 RPM, TEFC with 1.15 SF. 460V/3PH/60HZ, located at head.	200.0		
			- 702.10	1	Bearing temp sensor on Boot pulley bearing	By Electrician			NEMA 9	图像原列		
			- 702.11	1		By Electrician			NEMA 9			
	\blacksquare	TE	702.12	1	Bearing temp sensor on Head pulley bearing	By Electrician			NEMA 9			
Dan	N/		702.13702.20	1	Bearing temp sensor on Head pulley bearing Belt alignment sensor at Boot Upside	By Electrician By Electrician			NEMA 9 NEMA 9			-
Rev	N		- 702.20 - 702.21	1	Belt alignment sensor at Boot Upside Belt alignment sensor at Boot Upside	By Electrician			NEMA 9			1
Add	N		- 702.22	1		By Electrician			NEMA 9			\vdash
Add	N		- 702.23	1		By Electrician			NEMA 9	The second		
Rev	N		- 702.24	1		By Electrician			NEMA 9			
Rev	N	BAS	- 702.25	1		By Electrician			NEMA 9	Day of the last		
Add	N	BAS	- 702.26	1		By Electrician			NEMA 9			
Add	N		- 702.27	1		By Electrician			NEMA 9	22377		
			- 702.30	1		By Electrician	1		NEMA 9	05-21-24		
			- 702.40	1		Intersystems	1	BinMaster 65DFHT DBDT	Plug Switch located in discharge spout	PROPERTY.		
Rev	N		- 702.50	1		Intersystems	╄		WELL OF THE STATE			
Add	N		- 702.51	1		Intersystems	⊩		NEMA 9 Limit Switch			
Kev	N		- 702.52 - 702.70	1		Intersystems By Electrician	┢		NEMA 9 Limit Switch		_	4-20mA
The state of		CI	- 102.10	-	Current transformer	By Electrician		V				4-20MA
Rev	N	EOV	- 703	1	Electric Two-Way Slide Gate Valve	нсс		18" sq. 'K' style, 45 deg.	20,000 BPH, Each gate is operated with an electric actuator. HD dust-tight construction w/ cam followers and lined through out with 1/4" thick Ceramic liner. Full open & full closed gate operation.			
Rev	N		- 703.10	1		HCC		Linear Actuator	230/460V/3PH	1.0		
Rev	N		- 703.11	1		HCC	1		Go Switch	E-MILETON		
Rev	N		- 703.12	1		HCC	╄		Go Switch			
Add	N N		703.13703.14	1		HCC	╢	Linear Actuator	230/460V/3PH	1.0	-	
Rev	N		- 703.14 - 703.15	1		HCC	╢	-	Go Switch Go Switch		-	-
LZEA	14	200	- 700.10	100	Position Switch Open	1100	╁		GO SWILCH			-
Rev	N	EOV	- 704	1	Electric Two-Way Slide Gate Valve	нсс		18" sq. 'K' style, 45 deg.	20,000 BPH, Each gate is operated with an electric actuator. HD dust-tight construction w/ cam followers and lined through out with 1/4" thick Ceramic liner. Full open & full closed gate operation.			
Rev	N		- 704.10	1		HCC		Linear Actuator	230/460V/3PH	1.0		
Rev	N		- 704.11	1		HCC			Go Switch			
Rev	N		- 704.12	1		HCC			Go Switch	EL STATE		
Add	N		- 704.13	1		HCC	1	Linear Actuator	230/460V/3PH	1.0		
Rev	N		- 704.14	1		HCC	-		Go Switch	Line Halles		
Rev	N	ZSO	- 704.15	1	Position Switch Open	HCC	-		Go Switch		-	
dis. O		вс	- 705	1	Wet Grain Distribution Belt	HiRoller		Model 30 HiRoller	20,000 BPH, 700 FPM max, Drive Shaft 178.25 RPM, single Falk 5203JR09 Class 2 HTD reducer Belt drive at head, Manual take-up at tail, conveyor is horizontal			
			- 705.01	1	Electric motor for belt	HCC			Premium efficient motor, 1750 RPM, EXP with 1.15 SF. 440V/3PH/60HZ, located at head.	20.0		
_			- 705.10	1		By Electrician			NEMA 9	PARTE.		
-	-		- 705.11	1		By Electrician			NEMA 9		-	
	1	TE	- 705.12	1	Bearing temp sensor on Head pulley bearing	By Electrician			NEMA 9			

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		TE -	- 705.13	1	Bearing temp sensor on Head pulley bearing	By Electrician			NEMA 9			
		BAS -	- 705.20	1	Belt alignment sensor at Tail	By Electrician			NEMA 9	The State of		
		BAS -	- 705.21	1	Belt alignment sensor at Tail	By Electrician			NEMA 9			
		BAS -	- 705.22	1	Belt alignment sensor at Head	By Electrician			NEMA 9	Day Care		
			- 705.23	1	Belt alignment sensor at Head	By Electrician			NEMA 9			
		SSL	- 705.30	1	Motion Sensor at Tail Shaft	By Electrician			NEMA 9			
		SSL -	- 705.31	1	Motion sensor on boot shaft for HOA	By Electrician			NEMA 9	5 - 5 X / 1 1 5 5		
		LSH	- 705.40	1	Discharge Pressure Plug Switch	HiRoller		Binatrol Model GX	Plug Switch located in discharge head section			
Del I	N	LSH	- 705.50	1	Discharge Pressure Plug Switch	HiRoller	100		Plug Switch located in discharge head section	Contract of the last		40000
ev.	N	CT ·	- 705.50	1	Current Transformer	By Electrician						4-20r
180	dich.										Maria de la	
		DR	- 706	1	Grain Dryer (1)	GSI		10090	10,000 BPH Tower Dryer, natural gas for drying corn w/ 5 point moisture removal			
		DR	- 706.01	1	Feed Forward Moisture controler	GSI						
			- 706.10	1	Blower #1	GSI			125,000 CFM	NAME OF STREET		1
			- 706.11	1	Motor for Blower #1	GSI			460V/3PH/60HZ - Soft Start	125.0		1
			- 706.20	1	Blower #2	GSI			125,000 CFM			1
			- 706.21	1	Motor for Blower #2	GSI			460V/3PH/60HZ - Soft Start	125.0		1
	-		- 706.30	1	Blower #3	GSI			125,000 CFM	120,0		1
			- 706.31	1	Motor for Blower #3	GSI			460V/3PH/60HZ - Soft Start	125.0		1
\dashv			- 706.40	1	Blower #4	GSI			125,000 CFM	120.0		1
_			- 706.41	1	Motor for Blower #4	GSI	1		460V/3PH/60HZ - Soft Start	125.0		1
	ni total		700.41	71000	Micros for Blower #4	50.	1000		400 V/OI THIOCHE - GOIL GLEIT	120.0	100120000	Name of
		ВС	- 707	1	Dry Grain Reclaim Belt	HiRoller		Model 30	20,000 BPH, 700 FPM max, Drive Shaft 178.25 RPM, single Falk 5115JR09 Class 2 HTD reducer Belt drive at head, Manual take-up at tail, conveyor is horizontal			
			- 707.01	1	Electric motor for belt	нсс			Premium efficient motor, 1750 RPM, EXP with 1.15 SF. 440V/3PH/60HZ, located at head.	15.0		
			- 707.10	1	Bearing temp sensor on Tail pulley bearing	By Electrician			NEMA 9			
			- 707.11	1	Bearing temp sensor on Tail pulley bearing	By Electrician			NEMA 9			
			- 707.12	1	Bearing temp sensor on Head pulley bearing	By Electrician			NEMA 9	THE PROPERTY		
		TE	- 707.13	1	Bearing temp sensor on Head pulley bearing	By Electrician			NEMA 9	TEN STATE		
			- 707.20	1	Belt alignment sensor at Tail	By Electrician			NEMA 9			
		BAS	- 707.21	1	Belt alignment sensor at Tail	By Electrician			NEMA 9			
		BAS	- 707.22	1	Belt alignment sensor at Head	By Electrician			NEMA 9	E CONTRACTOR		
		BAS	- 707.23	1	Belt alignment sensor at Head	By Electrician			NEMA 9	DS-blanes.		
		SSL	- 707.30	1	Motion Sensor at Tail Shaft	By Electrician			NEMA 9	* L.		
		SSL	- 707.31	1	Motion sensor on boot shaft for HOA	By Electrician			NEMA 9	THE REAL PROPERTY.		
		LSH	- 707.40	1	Discharge Pressure Plug Switch	HiRoller		Binatrol Model GX	Plug Switch located in discharge head section			
el	N	LSH	- 707.50	1	Discharge Pressure Plug Switch	HiRoller			Plug Switch located in discharge head section	DESCRIPTION OF	Same	1
		DR	- 706	1	Grain Dryer (2)	GSI		10090	10,000 BPH Tower Dryer, natural gas for drying corn w/ 5 point moisture removal			
		DR	- 706.01	1	Feed Forward Moisture controler	GSI						
		BL	- 706.10	1	Blower #1	GSI			125,000 CFM			
			- 706.11	1	Motor for Blower #1	GSI			460V/3PH/60HZ - Soft Start	125.0		1
			- 706.20	1	Blower #2	GSI			125,000 CFM	100000		1
			- 706.21	1	Motor for Blower #2	GSI			460V/3PH/60HZ - Soft Start	125.0		1
			- 706.30	1	Blower #3	GSI			125,000 CFM	Real Control		1
			- 706.31	1	Motor for Blower #3	GSI	1		460V/3PH/60HZ - Soft Start	125.0		1
	\neg		- 706.40	1	Blower #4	GSI			125,000 CFM	12.0,0		1
\dashv	\neg		- 706.41	1	Motor for Blower #4	GSI	1		460V/3PH/60HZ - Soft Start	125.0		1
10 9	15,185	Lancing Division in which	700:11	10000	Marie 107 Biolice 117				TOUR THOUSE CONTOUNT	120.0	10 11 A 12 V	1000
		вс	- 707	1	Dry Grain Reclaim Belt	HiRoller		Model 30	20,000 BPH, 700 FPM max, Drive Shaft 178.25 RPM, single Falk 5115JR09 Class 2 HTD reducer Belt drive at head, Manual take-up at tail, conveyor is horizontal			
			- 707.01	1	Electric motor for belt	нсс			Premium efficient motor, 1750 RPM, EXP with 1.15 SF. 440V/3PH/60HZ, located at head.	15.0		
			- 707.10	1	Bearing temp sensor on Tail pulley bearing	By Electrician			NEMA 9	J. Takens		
		TE	- 707.11	1	Bearing temp sensor on Tail pulley bearing	By Electrician			NEMA 9			
		TE	- 707.12	1	Bearing temp sensor on Head pulley bearing	By Electrician			NEMA 9	ne li pierrini		

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		TE -	707.13	1	Bearing temp sensor on Head pulley bearing	By Electrician			NEMA 9							
		BAS -		1	Belt alignment sensor at Tail	By Electrician			NEMA 9							
		BAS -		1	Belt alignment sensor at Tail	By Electrician			NEMA 9							
		BAS -	707.22	1	Belt alignment sensor at Head	By Electrician			NEMA 9							
		BAS -	707.23	1	Belt alignment sensor at Head	By Electrician			NEMA 9							
		SSL -	707.30	1	Motion Sensor at Tail Shaft	By Electrician			NEMA 9							
		SSL -	707.31	1	Motion sensor on boot shaft for HOA	By Electrician			NEMA 9							
		LSH -	707.40	1	Discharge Pressure Plug Switch	HiRoller		Binatrol Model GX	Plug Switch located in discharge head section							
Del	N	LSH -	707.50	1	Discharge Pressure Plug Switch	HiRoller	100		Plug Switch located in discharge head section	E VALUE OF	ET LENGTH	No. of the least o				
Rev	N	CT -	707.50	1	Current Transformer	By Electrician	_			The state of		4-20mA				
Rev	N	EOV -	708	1	Electric Two-Way Slide Gate Valve	нсс		18" sq. 'K' style, 45 deg.	20,000 BPH, Each gate is operated with an electric actuator. HD dust-tight construction w/ cam followers and lined through out with 1/4" thick Ceramic liner. Full open & full closed gate operation.							
Rev	N	XV -	708.10	1	Electric Andco Actuator	HCC		Linear Actuator	230/460V/3PH	1.0						
Rev	N	ZSC -		1	Position Switch Closed	HCC			Go Switch							
Rev	N		708.12	1	Position Switch Open	HCC			Go Switch	100000						
Add	N		708.13	1	Electric Andco Actuator	HCC		Linear Actuator	230/460V/3PH	1.0						
Rev	N	ZSC -		1	Position Switch Closed	HCC			Go Switch	BACK S						
Rev	N	ZSO -	708.15	1	Position Switch Open	HCC			Go Switch	THE VIEW						
										The state of		Berly 19				
					Dust Control				The Cartific Manufacture Astronomy of the Control of			100				
e a co		BH -	800	1	Receiving Dust Control System X 45,000 CFM	Airlanco		378/330RLP10	Timer Board assembly, 110V, 1Ph	National Control	Dimension St.	- C				
Rev	N		800.11	1	Arm Drive Motor	Airlanco			Explosion Proof	0.8						
Rev	N		800.12	1	Reverse Air Fan	Airlanco			Explosion Proof	15.0						
Add	N	SC -	800.20	1	Live Bottom Auger	Airlanco			Slave Driven with Airlock	包括於 板						
Rev	N	FF -	801	1	Filter Fan	Airlanco		BI-44 Class 4	Premium efficient motor, 1750 RPM, TEFC with 1.15 SF. 230/460V/3PH/60HZ, 1,379 RPM	125.0	Maria					
		SC -	802	1	Dust Transfer Screw Conveyor	HCC			1,000 BPH, Screw Conv.							
Rev	N	sc -		1	Electric motor for conveyor	нсс			Premium efficient motor, 1750 RPM, TEFC with 1.15 SF. 480V/3PH/60HZ, located at tail	10.0						
		LSH -	802.10	1	Plug switch on Head section	HCC			NEMA 9	Mind and and						
		CT -	802.20	1	Current Transformer	By Electrician						4-20mA				
1		No. of the last				La Company		The second section								
Rev	N	RV -	803	1	Airlock	Airlanco	lui Co	UDV-12	Rotary Airlock, 230/460V/3PH/60Hz TEFC, 18 RPM	1.5	511,000					
		EOV -	804	1	Electric Two-Way Valve	HCC		12" sq flop style	10.000 BPH							
Rev	N		804.10	1	Electric motor	HCC	1		230V/460V/3PH/60HZ XP	1.0						
		ZSC -		1	Position Switch Closed	HCC	1		Limit Switch							
		ZSO -		1	Position Switch Open	HCC	1		Limit Switch							
		ZSC -		1	Position Switch Closed	HCC			Limit Switch							
		ZSO -	804.14	1	Position Switch Open	HCC			Limit Switch							
1116									NUMBER OF STREET STREET STREET	The second of th	Table 1	E CHANG				
		BH -		1	Loadout Dust Control System X 10,000 CFM	Airlanco		64RLP12	Timer Board assembly, 110V, 1Ph							
Rev	N		900.11	1	Arm Drive Motor	Airlanco			Explosion Proof	0.8						
Rev	N		900.12	1	Reverse Air Fan	Airlanco			Explosion Proof	7.5						
Add	N	SC -	900.20	1	Live Bottom Auger	Airlanco			Slave Driven with Airlock							
Rev	N	FF -	901	1	Filter Fan	Airlanco		364DH Series 20	230V/460V/3PH/60HZ TEFC, 1,390 RPM	40.0	0.15.75	Maria de la compansión de				
5177	10.136		Maria Section	984												
		SC -	902	1	Dust Transfer Screw Conveyor	HCC	1		1,000 BPH, Screw Conv.							
Rev	N	sc -	902.01	1	Electric motor for conveyor	нсс			Premium efficient motor, 1750 RPM, TEFC with 1.15 SF. 480V/3PH/60HZ, located at tail	10.0						
		LSH -		1	Plug switch on Head section Current Transformer	HCC By Electrician			NEMA 9			4-20mA				
10000	Part	01 -	302.11		Sunsit Hundrelling	Dy Listincian			With which are a second and the second and the second as		In the latest	7 2011/				
Day	N	RV -	903	1	Airlock	Airlanco		UDV-10	Rotary Airlock, 230/460V/3PH/60Hz TEFC, 18 RPM	1.5						

Owner: Dakota Plains Ag Center, LLC

Location: Utica, SD

Project Number

					Date: December 4, 2015 Revision: N									
Rev, Del & Add		PREFIX -	NUMBER	QTY	DESCRIPTION- Concrete 6-pack, (4) Interstice Bins 1/10 CFM on concrete 6-pack & 1 Ground Pile & a 10,000 BPH dryer system	MANUFACTU RER	P.O .#	MODEL No. & SIZE	DESIGN/ CAPACITY/ CONSTRUCTION	НР	SUPPLY VOLTS	OUTPU		
1		TRE CONTRACTOR							AND STOLEN AND STREET AND STREET, AND STREET, AND STREET AND STREET, AND	No. of the last		The same		
					1000 - MISC. ITEMS									
								STATE OF STREET						
		ML -	1000	1	500# Manlift	Sidney			Stops: grade, Loadout Filter Platform, Bulkweigher Floor, Bindeck/Roof,			1		
	1		1000.01	-	On the Control of the	Cidney	\vdash		Scalper Platform, Distributor Platform 230/460V/60/3PH Overhead Motor	3.0		-		
	+	ML -	1000.01 1000.10	1	Electric Motor for Manlift Grade Stop Limit Switch	Sidney Sidney	$\ - \ $		230/4600/60/3PH Overnead Motor	3.0		-		
_	+-1		1000.10	1	Position Switch Closed	Sidney	╟─╢					1		
_	+-1		1000.11	1	Position Switch Open	Sidney	╟─╢					1		
	+		1000.12	1	Control Stations	Sidney			Two Button control Station at landing	W. 200		1		
_	+-1		1000.10	<u> </u>	Rail Crossover Platform Stop Limit Switch	Sidney			The Batter Control Station at landing					
	-	ZSC -		1	Position Switch Closed	Sidney				The same of				
	+	ZSO -		1	Position Switch Open	Sidney								
	+		1000.23	1	Control Stations	Sidney			Two Button control Station at landing	TOTAL STREET		1		
	+		1000.30	<u> </u>	Sampler Floor Stop Limit Switch	Sidney				0.75		1		
	-		1000.31	1	Position Switch Closed	Sidney				TO NEED		1		
	-		1000.32	1	Position Switch Open	Sidney								
	+		1000.33	1	Control Stations	Sidney			Two Button control Station at landing	Victoria III				
_	1		1000.30	<u> </u>	Bulkweigher Floor Stop Limit Switch	Sidney						1		
			1000.31	1	Position Switch Closed	Sidney				December 1				
			1000.32	1	Position Switch Open	Sidney								
	1		1000.33	1	Control Stations	Sidney			Two Button control Station at landing					
			1000.40		Bin Deck/Roof Stop Limit Switch	Sidney			9					
	+	ZSC -		1	Position Switch Closed	Sidney								
	+		1000.42	1	Position Switch Open	Sidney				WILL STORY				
	\vdash	ML -		1	Control Stations	Sidney			Two Button control Station at landing					
	1 1		1000.50	<u> </u>	Leg Head Platform Stop Limit Switch	Sidney	Ш							
			1000.51	1	Position Switch Closed	Sidney								
			1000.52	1	Position Switch Open	Sidney				10.000000				
_			1000.53	1	Control Stations	Sidney			Two Button control Station at landing	B / E / E				
	\top		1000.60		Leg Head Platform Stop Limit Switch	Sidney				10 20 20				
		ZSC -		1	Position Switch Closed	Sidney								
		ZSO -		1	Position Switch Open	Sidney				ARMINE				
		ML -		1	Control Stations	Sidney			Two Button control Station at landing					
Rev.	N	ML -	1000.70	1	Control Panel w/ Disconnect Switch	Sidney			AF-S Vector Drive (Nema 4, 12), Soft Start, Phase Reversal Protection, Contol Circuit Relays & Trans., Potential Relay, Control Circuit w/ Fuses, Overload Heaters, Separate Fused Car Light w/ Alarm, circuit all prewired to numbered terminal, Single Automatic Push Buttom operation. Nema 4					
		011	4005	2	44 400 - 1 - 1 0	LICC			Continuel Mayorted			10000000		
	+	OH -			14' x 16' Overhead Doors	HCC	\blacksquare		Sectional Mounted	1.5	220	1-		
	\blacksquare		1005.01	3	Electric Motor for Overhead Doors	HCC	\blacksquare		1/2hp ea, 230v, 60 hz, 3 phase	1.5	230	-		
D	-	OH -		3	Control Stations	HCC	-		Three Button control Stations			-		
Kev	N	OH -		3	14' x 24' Overhead Doors	HCC	-		Sectional Mounted	4.5	000	-		
	\blacksquare	OH -		3	Electric Motor for Overhead Doors		-		1/2hp ea, 230v, 60 hz, 3 phase	1.5	230	1-		
		OH -	1006.10	3	Control Stations	HCC			Three Button control Stations		Contract of the last			
TV UN	H COLD		4007	4	Describe Dellation	HCC			Diverse and Liebling are and		110	100000000000000000000000000000000000000		
	+		1007	1	Receiving Building		\blacksquare		Plug-ins and Lighting per code		110	1		
	+	187	1008	1	Receiving Office	HCC	\vdash		Plug-ins and Lighting per code		-	+		
	\blacksquare	HV -	1000110	1	Wall Mounted Heating/AC Unit	нсс	\blacksquare		Diversion and Linking accords			-		
	\blacksquare		1009	1	MCC Room	Owner	\blacksquare		Plug-ins and Lighting per code					
	\blacksquare	HV -	1009.10	1	Wall Mounted AC Unit	Owner	\blacksquare			100 100				
	\blacksquare		1010	1	Load Out Control Room	HCC			Plug-ins and Lighting per code			-		
		HV -		1	Wall Mounted Heating/AC Unit	HCC	\blacksquare			NA THE STREET		-		
			1011	1	FGIS Room	HCC	\blacksquare		Plug-ins and Lighting per code		9			
		HV -	1011.10	1	Wall Mounted Heating/AC Unit	HCC				E TRANSPORT				