

DEINES IRRIGATION INC.

SEPTEMBER 30, 2025

WISH-119636

CUSTOMER : H & T RANCH

REINKE ELECTROGATOR 65
7 TOWER - 1300.75 FT
SYSTEM 950 GPM @ 51 PSI

P.O. NO. : 12395

NELSON R3000 ROTATORS
NELSON 20 & 15 PSI REGULATORS
NO ENDGUN
ELEVATION 20 FT UP, 0 FT DOWN

1101 MAIN STREET
TORRINGTON, WYOMING 82240
(307)532-1173

WARRANTY

WATER APPLICATION UNIFORMITY OBTAINED WITH THIS SYSTEM CAN BE ADVERSELY AFFECTED BY MANY VARIABLES INCLUDING THE IMPROPER MAKEUP OR INSTALLATION OF THE SPRINKLER OR SPRAY NOZZLE PACKAGE, OBSTRUCTED NOZZLES, MAINTAINING INCORRECT PIVOT PRESSURE, UNFAVORABLE CLIMATIC CONDITIONS, TIGHT AND/OR SLOPING SOILS, IMPROPER END GUN ARC SETTINGS, ERRATIC AND IMPROPER OPERATING SPEED OF THE SYSTEM, POOR QUALITY OF WATER WITH ABRASIVES, CORROSIVES, AND/OR SOLIDS WHICH CAN CAUSE PLUGGING AND JAMMING, AS WELL AS INHERENT VARIABLES IN THE MANY COMPONENTS COMPRISING THE SYSTEM. THEREFORE WESTERN IRRIGATION SUPPLY HOUSE, INC., MAKES NO WARRANTY AS TO THE UNIFORMITY OF COVERAGE OBTAINED FROM THIS WATER APPLICATION PRINTOUT OTHER THAN ITS MATHEMATICAL ACCURACY.

IT IS THE RESPONSIBILITY OF THE END USER TO DETERMINE IF ANY INCOMPATIBILITY EXISTS BETWEEN THE WATER DISTRIBUTION DEVICES AND THE CROP, THE SOIL, AND THE PHYSICAL STRUCTURE OF THE MECHANICAL MOVE SYSTEM. WESTERN IRRIGATION SUPPLY HOUSE, INC., THEREFORE, DISCLAIMS ANY LIABILITY FOR DAMAGES DUE TO FAILURE OF THE SYSTEM TO PERFORM AS CONTEMPLATED.

FIGURES PRESENTED ON THIS COMPUTER PRINTOUT ARE BASED ON THE FOLLOWING:

1. DATA FURNISHED TO WESTERN IRRIGATION SUPPLY HOUSE, INC., ON PIPE LENGTH, DIAMETER, SURFACE FINISH, OUTLET SPACINGS, WATER FLOW, PIVOT PRESSURE AND ALL OTHER APPLICABLE INFORMATION.
2. THERE IS 100% WATER APPLICATION EFFICIENCY (ZERO WIND VELOCITY AND NO EVAPORATION).
3. PIVOT PRESSURE IS MEASURED ON THE MAIN HORIZONTAL DISTRIBUTION PIPE JUST AFTER THE LAST ELBOW.
4. MAIN PIPE PRESSURE IS CALCULATED AS IF THE PIVOT IS ALWAYS ON LEVEL GROUND.
5. SPRINKLER OR SPRAY NOZZLE BASE PRESSURE MAY BE LESS THAN MAIN LINE PIPE PRESSURE DUE TO THE USE OF PRESSURE REGULATORS. WHERE DROP PIPES ARE USED THE STATIC HEAD IS ADDED TO AND FRICTION LOSS IS SUBTRACTED FROM THE MAIN LINE PIPE PRESSURE TO DETERMINE INLET PSI. REGULATORS ARE CONSIDERED MOUNTED AT THE SAME HEIGHT AS THE SPRINKLING DEVICE UNLESS NOTED.

<u>DEALER</u> DEINES IRRIGATION INC. 1101 MAIN STREET TORRINGTON, WYOMING 82240			<u>IRRIGATOR</u> H & T RANCH 12395			
TOTAL TARGET GPM	950.00	FRICTION FACTOR USED	135	SPANS	LENGTH	PIPE I.D.
TOP OF PIVOT PRESSURE	51.00	TOTAL LENGTH	1300.75	1	195.25	6.415
NO ENDGUN		NUMBER OF TOWERS	7	2	194.00	6.415
NUMBER OF OUTLETS	268	NUMBER OF SPRINKLERS	132	3	175.00	6.415
				1	179.00	6.415
NELSON R3000 ROTATORS - D8 ORANGE PLATES				OH	13.50	2.79
NELSON BLUE TOP 20 & 15 PSI INTEGRAL SERIES REGULATORS						
POLYDROPS® AVERAGE 7 FT						
ELEVATION IS 20 FT UP AND 0 FT DOWN						

CAUTIONS AND WARNINGS

1. Inadequate crop clearance and/or structural interference may cause poor water distribution, resulting in decreased uniformity and possible streaking.

2. Over watering at beginning of system due to practical limitations on smallest nozzle sizes available and/or allowable for proper operation.

TOWER 1

OUTLET NO.	LAST OUTLET	DISTANCE TO PIVOT	GPM NEED	GPM DEL.	PIPE PSI	NOZZLE PSI	SPRINKLER LABEL AND NOZZLE SIZE				SPRK NO.	REG SIZE	PLUG NO.	DROP LENGTH
48	9.50	234.87	2.46	2.58	45.97	21.68	R3000	18	GRAY		22	NNB20LF		84
49		239.62	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	27	
50	9.50	244.37	2.56	2.58	45.68	21.68	R3000	18	GRAY		23	NNB20LF		90
51		249.12	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	28	
52	9.50	253.87	2.66	2.58	45.40	21.68	R3000	18	GRAY		24	NNB20LF		90
53		258.62	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	29	
54	9.50	263.37	2.76	2.89	45.15	21.52	R3000	19	GRAY/TURQ		25	NNB20LF		96
55		268.12	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	30	
56	9.50	272.87	2.86	2.89	44.93	21.52	R3000	19	GRAY/TURQ		26	NNB20LF		96
57		277.62	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	31	
58	9.50	282.37	2.96	2.89	44.73	21.52	R3000	19	GRAY/TURQ		27	NNB20LF		96
59		287.12	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	32	
60	9.50	291.87	3.06	3.20	44.55	21.37	R3000	20	TURQUOISE		28	NNB20LF		96
61		296.62	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	33	
62	9.50	301.37	3.16	3.20	44.40	21.37	R3000	20	TURQUOISE		29	NNB20LF		96
63		306.12	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	34	
64	9.50	310.87	3.25	3.20	44.27	21.37	R3000	20	TURQUOISE		30	NNB20LF		96
65		315.62	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	35	
66	9.50	320.37	3.35	3.46	44.16	21.24	R3000	21	TURQ/YEL		31	NNB20LF		96
67		325.12	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	36	
68	9.50	329.87	3.45	3.46	44.08	21.24	R3000	21	TURQ/YEL		32	NNB20LF		90
69		334.62	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	37	
70	9.50	339.37	3.55	3.46	44.03	21.24	R3000	21	TURQ/YEL		33	NNB20LF		90
71		344.12	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	38	
72	9.50	348.87	3.65	3.83	43.99	21.06	R3000	22	YELLOW		34	NNB20LF		84
73		353.62	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	39	
74	9.50	358.37	3.75	3.83	43.99	21.06	R3000	22	YELLOW		35	NNB20LF		78
75		363.12	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	40	
76	9.50	367.87	3.85	3.83	44.00	21.06	R3000	22	YELLOW		36	NNB20LF		78
77		372.62	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	41	
78	9.50	377.37	3.95	3.83	44.05	21.06	R3000	22	YELLOW		37	NNB20LF		72
79		382.12	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	42	
80	9.50	386.87	4.92	4.92	43.92	20.81	R3000	25	RED/WHITE		38	NNB20LF		66
TOWER 2	194.00	389.25												
81		395.62	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	43	
82	13.50	400.37	5.06	4.92	43.65	20.81	R3000	25	RED/WHITE		39	NNB20LF		72
83		405.12	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	44	
84	9.50	409.87	4.29	4.25	43.30	15.58	R3000	25	RED/WHITE		40	NNB15LF		78
85		414.62	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	45	
86	9.50	419.37	4.39	4.25	42.98	15.58	R3000	25	RED/WHITE		41	NNB15LF		78
87		424.12	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	46	
88	9.50	428.87	4.49	4.61	42.68	15.54	R3000	26	WHITE		42	NNB15LF		84
89		433.62	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	47	
90	9.50	438.37	4.59	4.61	42.41	15.54	R3000	26	WHITE		43	NNB15LF		90
91		443.12	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	48	
92	9.50	447.87	4.69	4.61	42.16	15.54	R3000	26	WHITE		44	NNB15LF		90
93		452.62	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	49	
94	9.50	457.37	4.79	4.94	41.94	15.51	R3000	27	WHITE/BLUE		45	NNB15LF		96

OUTLET NO.	LAST OUTLET	DISTANCE TO PIVOT	GPM NEED	GPM DEL.	PIPE PSI	NOZZLE PSI	SPRINKLER LABEL AND NOZZLE SIZE					SPRK NO.	REG SIZE	PLUG NO.	DROP LENGTH
142	9.50	689.37	7.22	7.41	39.05	15.26	R3000	33	ORN/DK	GRN		69	NNB15LF		90
143		694.12	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	74	
144	9.50	698.87	7.32	7.41	39.01	15.26	R3000	33	ORN/DK	GRN		70	NNB15LF		90
145		703.62	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	75	
146	9.50	708.37	7.42	7.41	38.99	15.26	R3000	33	ORN/DK	GRN		71	NNB15LF		84
147		713.12	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	76	
148	9.50	717.87	7.51	7.41	39.01	15.26	R3000	33	ORN/DK	GRN		72	NNB15LF		84
149		722.62	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	77	
150	9.50	727.37	7.62	7.41	39.04	15.26	R3000	33	ORN/DK	GRN		73	NNB15LF		78
151		732.12	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	78	
152	9.50	736.87	7.72	7.87	39.11	15.21	R3000	34	DK	GREEN		74	NNB15LF		72
153		741.62	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	79	
154	9.50	746.37	7.82	7.87	39.20	15.21	R3000	34	DK	GREEN		75	NNB15LF		66
155		751.12	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	80	
156	9.50	755.87	9.59	9.81	39.17	15.13	R3000	38	BLACK			76	NNB15LF		66
TOWER 4	175.00	758.25													
157		764.62	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	81	
158	13.50	769.37	9.74	9.81	39.05	15.13	R3000	38	BLACK			77	NNB15LF		66
159		774.12	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	82	
160	9.50	778.87	8.15	8.28	38.79	15.19	R3000	35	DK	GRN/PUR		78	NNB15LF		72
161		783.62	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	83	
162	9.50	788.37	8.25	8.28	38.54	15.19	R3000	35	DK	GRN/PUR		79	NNB15LF		78
163		793.12	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	84	
164	9.50	797.87	8.35	8.28	38.33	15.19	R3000	35	DK	GRN/PUR		80	NNB15LF		78
165		802.62	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	85	
166	9.50	807.37	8.45	8.28	38.14	15.19	R3000	35	DK	GRN/PUR		81	NNB15LF		84
167		812.12	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	86	
168	9.50	816.87	8.55	8.70	37.97	15.17	R3000	36	PURPLE			82	NNB15LF		84
169		821.62	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	87	
170	9.50	826.37	8.65	8.70	37.83	15.17	R3000	36	PURPLE			83	NNB15LF		90
171		831.12	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	88	
172	9.50	835.87	8.75	8.70	37.72	15.17	R3000	36	PURPLE			84	NNB15LF		90
173		840.62	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	89	
174	9.50	845.37	8.85	8.70	37.64	15.18	R3000	36	PURPLE			85	NNB15LF		90
175		850.12	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	90	
176	9.50	854.87	8.95	8.70	37.58	15.18	R3000	36	PURPLE			86	NNB15LF		90
177		859.62	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	91	
178	9.50	864.37	9.05	9.29	37.55	15.15	R3000	37	PUR/BLK			87	NNB15LF		90
179		869.12	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	92	
180	9.50	873.87	9.15	9.29	37.55	15.15	R3000	37	PUR/BLK			88	NNB15LF		90
181		878.62	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	93	
182	9.50	883.37	9.24	9.29	37.57	15.16	R3000	37	PUR/BLK			89	NNB15LF		84
183		888.12	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	94	
184	9.50	892.87	9.34	9.29	37.62	15.16	R3000	37	PUR/BLK			90	NNB15LF		84
185		897.62	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	95	
186	9.50	902.37	9.44	9.29	37.70	15.16	R3000	37	PUR/BLK			91	NNB15LF		78
187		907.12	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	96	
188	9.50	911.87	9.54	9.29	37.80	15.16	R3000	37	PUR/BLK			92	NNB15LF		72

OUTLET NO.	LAST OUTLET	DISTANCE TO PIVOT	GPM NEED	GPM DEL.	PIPE PSI	NOZZLE PSI	SPRINKLER LABEL AND NOZZLE SIZE					SPRK NO.	REG SIZE	PLUG NO.	DROP LENGTH
189		916.62	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	97	
190	9.50	921.37	9.65	9.81	37.93	15.14	R3000	38	BLACK			93	NNB15LF		66
191		926.12	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	98	
192	9.50	930.87	11.81	12.03	37.93	15.06	R3000	42	MUSTARD			94	NNB15LF		66
TOWER 5	175.00	933.25													
193		939.62	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	99	
194	13.50	944.37	11.95	12.03	37.86	15.06	R3000	42	MUSTARD			95	NNB15LF		66
195		949.12	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	100	
196	9.50	953.87	9.98	9.81	37.64	15.14	R3000	38	BLACK			96	NNB15LF		72
197		958.62	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	101	
198	9.50	963.37	10.08	9.81	37.43	15.14	R3000	38	BLACK			97	NNB15LF		78
199		968.12	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	102	
200	9.50	972.87	10.19	10.35	37.25	15.12	R3000	39	BLK/DTURQ			98	NNB15LF		78
201		977.62	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	103	
202	9.50	982.37	10.28	10.35	37.09	15.12	R3000	39	BLK/DTURQ			99	NNB15LF		84
203		987.12	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	104	
204	9.50	991.87	10.38	10.35	36.97	15.12	R3000	39	BLK/DTURQ			100	NNB15LF		84
205		996.62	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	105	
206	9.50	1001.37	10.48	10.35	36.86	15.12	R3000	39	BLK/DTURQ			101	NNB15LF		90
207		1006.12	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	106	
208	9.50	1010.87	10.58	10.35	36.79	15.12	R3000	39	BLK/DTURQ			102	NNB15LF		90
209		1015.62	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	107	
210	9.50	1020.37	10.69	10.88	36.74	15.10	R3000	40	DK TURQ			103	NNB15LF		90
211		1025.12	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	108	
212	9.50	1029.87	10.78	10.88	36.72	15.10	R3000	40	DK TURQ			104	NNB15LF		90
213		1034.62	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	109	
214	9.50	1039.37	10.88	10.88	36.72	15.10	R3000	40	DK TURQ			105	NNB15LF		90
215		1044.12	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	110	
216	9.50	1048.87	10.98	10.88	36.75	15.10	R3000	40	DK TURQ			106	NNB15LF		90
217		1053.62	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	111	
218	9.50	1058.37	11.08	10.88	36.81	15.10	R3000	40	DK TURQ			107	NNB15LF		84
219		1063.12	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	112	
220	9.50	1067.87	11.19	10.88	36.89	15.10	R3000	40	DK TURQ			108	NNB15LF		84
221		1072.62	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	113	
222	9.50	1077.37	11.30	11.51	37.00	15.08	R3000	41	DTURQ/MUS			109	NNB15LF		78
223		1082.12	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	114	
224	9.50	1086.87	11.39	11.51	37.14	15.08	R3000	41	DTURQ/MUS			110	NNB15LF		72
225		1091.62	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	115	
226	9.50	1096.37	11.49	11.51	37.30	15.08	R3000	41	DTURQ/MUS			111	NNB15LF		66
227		1101.12	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	116	
228	9.50	1105.87	14.04	14.19	37.33	14.54	R3000	46	CREAM			112	NNB15HF		66
TOWER 6	175.00	1108.25													
229		1114.62	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	117	
230	13.50	1119.37	14.18	14.19	37.25	14.54	R3000	46	CREAM			113	NNB15HF		72
231		1124.12	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	118	
232	9.50	1128.87	11.82	11.91	37.06	14.75	R3000	42	MUSTARD			114	NNB15HF		78
233		1133.62	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	119	
234	9.50	1138.37	11.92	11.91	36.90	14.75	R3000	42	MUSTARD			115	NNB15HF		84

OUTLET NO.	LAST OUTLET	DISTANCE TO PIVOT	GPM NEED	GPM DEL.	PIPE PSI	NOZZLE PSI	SPRINKLER LABEL AND NOZZLE SIZE					SPRK NO.	REG SIZE	PLUG NO.	DROP LENGTH
235		1143.12	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	120	
236	9.50	1147.87	12.02	11.91	36.76	14.75	R3000	42	MUSTARD			116	NNB15HF		84
237		1152.62	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	121	
238	9.50	1157.37	12.12	11.91	36.64	14.75	R3000	42	MUSTARD			117	NNB15HF		90
239		1162.12	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	122	
240	9.50	1166.87	12.23	12.46	36.55	14.70	R3000	43	MUS/MRN			118	NNB15HF		90
241		1171.62	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	123	
242	9.50	1176.37	12.32	12.46	36.48	14.70	R3000	43	MUS/MRN			119	NNB15HF		96
243		1181.12	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	124	
244	9.50	1185.87	12.41	12.46	36.43	14.70	R3000	43	MUS/MRN			120	NNB15HF		96
245		1190.62	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	125	
246	9.50	1195.37	12.50	12.46	36.41	14.70	R3000	43	MUS/MRN			121	NNB15HF		96
247		1200.12	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	126	
248	9.50	1204.87	15.27	15.45	36.41	14.43	R3000	48	DK BLUE			122	NNB15HF		96
249		1209.62	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	127	
250		1213.62	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	128	
251	13.50	1218.37	15.39	15.45	36.46	14.43	R3000	48	DK BLUE			123	NNB15HF		96
252		1223.12	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	129	
253	9.50	1227.87	12.82	13.01	36.52	14.65	R3000	44	MAROON			124	NNB15HF		90
254		1232.62	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	130	
255	9.50	1237.37	12.90	13.01	36.60	14.65	R3000	44	MAROON			125	NNB15HF		90
256		1242.12	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	131	
257	9.50	1246.87	12.98	13.02	36.70	14.65	R3000	44	MAROON			126	NNB15HF		84
258		1251.62	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	132	
259	9.50	1256.37	13.07	13.02	36.83	14.65	R3000	44	MAROON			127	NNB15HF		84
260		1261.12	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	133	
261	9.50	1265.87	13.18	13.02	36.98	14.65	R3000	44	MAROON			128	NNB15HF		78
262		1270.62	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	134	
263	9.50	1275.37	13.32	13.61	37.16	14.59	R3000	45	MRN/CRM			129	NNB15HF		72
264		1280.12	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	135	
265	9.50	1284.87	12.78	13.01	37.20	14.65	R3000	44	MAROON			130	NNB15HF		66
TOWER 7	179.00	1287.25	PIPE ID CHANGES FROM 6.415 TO 2.790												
266	8.75	1293.62	12.98	13.02	37.19	14.65	R3000	44	MAROON			131	NNB15HF		66
267		1298.37	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	136	
268	7.13	1300.75	12.87	13.01	37.19	14.65	R3000	44	MAROON			132	NNB15HF		66
OVERHANG	13.50	1300.75													

TOTAL GPM = 950.95
GPA = 7.75

MINIMUM RECOMMENDED REGULATOR INLET PRESSURE IS 20.00 PSI
WITH GRADUATED ELEVATION OF 20.00 FT THE INLET PRESSURE IS 29.51 PSI FOR SPRINKLER 123
THIS POSITION IS THE CLOSEST TO THE MINIMUM RECOMMENDED INLET PRESSURE

HYDRAULICS SUMMARY

<u>TOWER NUMBER</u>	<u>ACRES UNDER SPAN</u>	<u>GPM NEED</u>	<u>ACTUAL GPM</u>	<u>PERCENT DEVIATION</u>	<u>GPM PER ACRE</u>	<u>AVERAGE IN. PER HR DELIVERED UNDER SPAN</u>	<u>AVERAGE IN. DELIVERED FOR REVOLUTION TIME</u>		
							<u>36 HR</u>	<u>48 HR</u>	<u>60 HR</u>
1	2.75	21.32	29.21	37%	10.62	0.023	0.84	1.13	1.41
2	8.18	63.40	63.14	0%	7.72	0.017	0.61	0.82	1.02
3	13.61	105.49	104.21	-1%	7.66	0.017	0.61	0.81	1.02
4	16.93	131.26	129.50	-1%	7.65	0.017	0.61	0.81	1.01
5	21.35	165.51	163.30	-1%	7.65	0.017	0.61	0.81	1.01
6	25.77	199.75	196.70	-2%	7.63	0.017	0.61	0.81	1.01
7	30.93	239.75	235.91	-2%	7.63	0.017	0.61	0.81	1.01
OVERHANG	2.52	19.53	29.00	48%	11.51	0.025	0.92	1.22	1.53
TOTAL	122.03	946.00	950.95		7.79				

SUMMARY OF SPRINKLERS

14 R3000 14 LIME
3 R3000 15 LIME/LAV
2 R3000 17 LAV/GRAY
5 R3000 18 GRAY
3 R3000 19 GRAY/TURQ
3 R3000 20 TURQUOISE
3 R3000 21 TURQ/YEL
4 R3000 22 YELLOW
4 R3000 25 RED/WHITE
3 R3000 26 WHITE
4 R3000 27 WHITE/BLUE
4 R3000 28 BLUE
4 R3000 29 BLUE/DK BRN
1 R3000 30 DK BROWN
5 R3000 31 DK BRN/ORN
4 R3000 32 ORANGE
7 R3000 33 ORN/DK GRN
2 R3000 34 DK GREEN
4 R3000 35 DK GRN/PUR
5 R3000 36 PURPLE
6 R3000 37 PUR/BLK
5 R3000 38 BLACK
5 R3000 39 BLK/DTURQ
6 R3000 40 DK TURQ
3 R3000 41 DTURQ/MUS
6 R3000 42 MUSTARD
4 R3000 43 MUS/MRN
8 R3000 44 MAROON
1 R3000 45 MRN/CRM
2 R3000 46 CREAM
2 R3000 48 DK BLUE

136 PLUGS**SUMMARY OF DROPS**

15 66 IN DROP
13 72 IN DROP
22 78 IN DROP
22 84 IN DROP
35 90 IN DROP
25 96 IN DROP

TOTAL OF 132 DROPS**SUMMARY OF REGULATORS**

39 Nelson Blue Int Uni Flo 20 psi
72 Nelson Blue Int Uni Flo 15 psi
21 Nelson Blue Int Hi Flo 15 psi

TOTAL OF 132 REGULATORS

NOZZLE POSITION CHART

R3000 14 LIME	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14
R3000 15 LIME/LAV	15, 16, 17
R3000 17 LAV/GRAY	20, 21
R3000 18 GRAY	18, 19, 22, 23, 24
R3000 19 GRAY/TURQ	25, 26, 27
R3000 20 TURQUOISE	28, 29, 30
R3000 21 TURQ/YEL	31, 32, 33
R3000 22 YELLOW	34, 35, 36, 37
R3000 25 RED/WHITE	38, 39, 40, 41
R3000 26 WHITE	42, 43, 44
R3000 27 WHITE/BLUE	45, 46, 47, 48
R3000 28 BLUE	49, 50, 51, 52
R3000 29 BLUE/DK BRN	53, 54, 55, 56
R3000 30 DK BROWN	57
R3000 31 DK BRN/ORN	60, 61, 62, 63, 64
R3000 32 ORANGE	65, 66, 67, 68
R3000 33 ORN/DK GRN	58, 59, 69, 70, 71, 72, 73
R3000 34 DK GREEN	74, 75
R3000 35 DK GRN/PUR	78, 79, 80, 81
R3000 36 PURPLE	82, 83, 84, 85, 86
R3000 37 PUR/BLK	87, 88, 89, 90, 91, 92
R3000 38 BLACK	76, 77, 93, 96, 97
R3000 39 BLK/DTURQ	98, 99, 100,101,102
R3000 40 DK TURQ	103,104,105,106,107,108
R3000 41 DTURQ/MUS	109,110,111
R3000 42 MUSTARD	94, 95, 114,115,116,117
R3000 43 MUS/MRN	118,119,120,121
R3000 44 MAROON	124,125,126,127,128,130,131,132
R3000 45 MRN/CRM	129
R3000 46 CREAM	112,113
R3000 48 DK BLUE	122,123

Rotation time at 100% = 12.55 Hours Or 753 minutes

950 GPM @ 51 PSI

Installation Chart

Page 1

Out #	Drop Len	Sprk #	Noz Size	Reg	Out #	Drop Len	Sprk #	Noz Size	Reg	Out #	Drop Len	Sprk #	Noz Size	Reg	Out #	Drop Len	Sprk #	Noz Size	Reg	Out #	Drop Len	Sprk #	Noz Size	Reg	
1	PLUG				20	96	28	20	20LF	39	PLUG				21	PLUG				7	PLUG				
2	PLUG				21	PLUG				40	66	58	33	15LF	22	90	87	37	15LF	8	84	116	42	15HF	
3	PLUG				22	96	29	20	20LF	TOWER 3					23	PLUG				9	PLUG				
4	PLUG				23	PLUG				1	PLUG				24	90	88	37	15LF	10	90	117	42	15HF	
5	PLUG				24	96	30	20	20LF	2	66	59	33	15LF	25	PLUG				11	PLUG				
6	78	1	14	20LF	25	PLUG				3	PLUG				26	84	89	37	15LF	12	90	118	43	15HF	
7	PLUG				26	96	31	21	20LF	4	72	60	31	15LF	27	PLUG				13	PLUG				
8	84	2	14	20LF	27	PLUG				5	PLUG				28	84	90	37	15LF	14	96	119	43	15HF	
9	PLUG				28	90	32	21	20LF	6	78	61	31	15LF	29	PLUG				15	PLUG				
10	90	3	14	20LF	29	PLUG				7	PLUG				30	78	91	37	15LF	16	96	120	43	15HF	
11	PLUG				30	90	33	21	20LF	8	78	62	31	15LF	31	PLUG				17	PLUG				
12	90	4	14	20LF	31	PLUG				9	PLUG				32	72	92	37	15LF	18	96	121	43	15HF	
13	PLUG				32	84	34	22	20LF	10	84	63	31	15LF	33	PLUG				19	PLUG				
14	90	5	14	20LF	33	PLUG				11	PLUG				34	66	93	38	15LF	20	96	122	48	15HF	
15	PLUG				34	78	35	22	20LF	12	84	64	31	15LF	35	PLUG				21	PLUG				
16	96	6	14	20LF	35	PLUG				13	PLUG				36	66	94	42	15LF	22	PLUG				
17	PLUG				36	78	36	22	20LF	14	90	65	32	15LF	TOWER 5					23	96	123	48	15HF	
18	96	7	14	20LF	37	PLUG				15	PLUG				1	PLUG				24	PLUG				
19	PLUG				38	72	37	22	20LF	16	90	66	32	15LF	2	66	95	42	15LF	25	90	124	44	15HF	
20	96	8	14	20LF	39	PLUG				17	PLUG				3	PLUG				26	PLUG				
21	PLUG				40	66	38	25	20LF	18	90	67	32	15LF	4	72	96	38	15LF	27	90	125	44	15HF	
22	96	9	14	20LF	TOWER 2					19	PLUG				5	PLUG				28	PLUG				
23	PLUG				1	PLUG				20	90	68	32	15LF	6	78	97	38	15LF	29	84	126	44	15HF	
24	96	10	14	20LF	2	72	39	25	20LF	21	PLUG				7	PLUG				30	PLUG				
25	PLUG				3	PLUG				22	90	69	33	15LF	8	78	98	39	15LF	31	84	127	44	15HF	
26	96	11	14	20LF	4	78	40	25	15LF	23	PLUG				9	PLUG				32	PLUG				
27	PLUG				5	PLUG				24	90	70	33	15LF	10	84	99	39	15LF	33	78	128	44	15HF	
28	90	12	14	20LF	6	78	41	25	15LF	25	PLUG				11	PLUG				34	PLUG				
29	PLUG				7	PLUG				26	84	71	33	15LF	12	84	100	39	15LF	35	72	129	45	15HF	
30	90	13	14	20LF	8	84	42	26	15LF	27	PLUG				13	PLUG				36	PLUG				
31	PLUG				9	PLUG				28	84	72	33	15LF	14	90	101	39	15LF	37	66	130	44	15HF	
32	84	14	14	20LF	10	90	43	26	15LF	29	PLUG				15	PLUG				TOWER 7					
33	PLUG				11	PLUG				30	78	73	33	15LF	16	90	102	39	15LF	1	66	131	44	15HF	
34	78	15	15	20LF	12	90	44	26	15LF	31	PLUG				17	PLUG				2	PLUG				
35	PLUG				13	PLUG				32	72	74	34	15LF	18	90	103	40	15LF	3	66	132	44	15HF	
36	78	16	15	20LF	14	96	45	27	15LF	33	PLUG				19	PLUG									
37	PLUG				15	PLUG				34	66	75	34	15LF	20	90	104	40	15LF						
38	72	17	15	20LF	16	96	46	27	15LF	35	PLUG				21	PLUG									
39	PLUG				17	PLUG				36	66	76	38	15LF	22	90	105	40	15LF						
40	66	18	18	20LF	18	96	47	27	15LF	TOWER 4					23	PLUG									
TOWER 1					19	PLUG				1	PLUG				24	90	106	40	15LF						
1	PLUG				20	96	48	27	15LF	2	66	77	38	15LF	25	PLUG									
2	72	19	18	20LF	21	PLUG				3	PLUG				26	84	107	40	15LF						
3	PLUG				22	96	49	28	15LF	4	72	78	35	15LF	27	PLUG									
4	78	20	17	20LF	23	PLUG				5	PLUG				28	84	108	40	15LF						
5	PLUG				24	96	50	28	15LF	6	78	79	35	15LF	29	PLUG									
6	78	21	17	20LF	25	PLUG				7	PLUG				30	78	109	41	15LF						
7	PLUG				26	96	51	28	15LF	8	78	80	35	15LF	31	PLUG									
8	84	22	18	20LF	27	PLUG				9	PLUG				32	72	110	41	15LF						
9	PLUG				28	90	52	28	15LF	10	84	81	35	15LF	33	PLUG									
10	90	23	18	20LF	29	PLUG				11	PLUG				34	66	111	41	15LF						
11	PLUG				30	90	53	29	15LF	12	84	82	36	15LF	35	PLUG									
12	90	24	18	20LF	31	PLUG				13	PLUG				36	66	112	46	15HF						
13	PLUG				32	84	54	29	15LF	14	90	83	36	15LF	TOWER 6										
14	96	25	19	20LF	33	PLUG				15	PLUG				1	PLUG									
15	PLUG				34	78	55	29	15LF	16	90	84	36	15LF	2	72	113	46	15HF						
16	96	26	19	20LF	35	PLUG				17	PLUG				3	PLUG									
17	PLUG				36	78	56	29	15LF	18	90	85	36	15LF	4	78	114	42	15HF						
18	96	27	19	20LF	37	PLUG				19	PLUG				5	PLUG									
19	PLUG				38	72	57	30	15LF	20	90	86	36	15LF	6	84	115	42	15HF						

PRECIPITATION CHART FOR FULL CIRCLE

WISH-119636

SEPTEMBER 30, 2025

DEALER - DEINES IRRIGATION INC.

IRRIGATOR - H & T RANCH

TOTAL LENGTH PIPE = 1300.75 SYSTEM PRESSURE = 51 PSI
GPM UNDER PIPE = 950.95 TOTAL GPM = 950.95
ACRES UNDER PIPE = 122.03
RANGE OF ENDGUN = .00
GPM OF ENDGUN = .00
ACRES UNDER ENDGUN = .00

MOTOR SIZE (HP) = .6
LOADED MOTOR RPM = 1728
CENTER GEAR BOX RATIO = 48
WHEEL GEAR BOX RATIO = 50
TIRE SIZE = 11.2 X 38
LAST TOWER SPEED (FPM) = 10.74

PRECIPITATION BASED

% TIMER BASED

PRECIPITATION INCHES	% TIMER SETTING	TIME HOURS	% TIMER SETTING	PRECIPITATION INCHES	TIME HOURS
.22	100.00	12.55 - 753(min)	100.00	.22	12.55 - 753(min)
.25	86.45	14.52	90.00	.24	13.95
.30	72.04	17.42	80.00	.27	15.69
.40	54.03	23.23	70.00	.31	17.93
.50	43.23	29.04	60.00	.36	20.92
.60	36.02	34.84	50.00	.43	25.10
.70	30.88	40.65	45.00	.48	27.89
.75	28.82	43.56	40.00	.54	31.38
.80	27.02	46.46	35.00	.62	35.86
.90	24.01	52.27	30.00	.72	41.84
1.00	21.61	58.07	25.00	.86	50.21
1.25	17.29	72.59	20.00	1.08	62.76
1.50	14.41	87.11	15.00	1.44	83.68
1.75	12.35	101.63	10.00	2.16	125.51
2.00	10.81	116.15	5.00	4.32	251.03

CAUTION: The relationship between precipitation rate, timer setting, and hours per revolution provided above are theoretical numbers based on the data list at the top of the page. Actual precipitation rates may vary due to the following field and machine conditions: wind drift; evaporation; tire slippage, tire loaded radius; drive train efficiency; elevation changes; soil type. Due to these varying field and machine conditions the above chart should be used as a guide only.

DEALER - DEINES IRRIGATION INC.
P.O. - 12395

IRRIGATOR - H & T RANCH

SPAN 1 <u>POS/LEN</u>	SPAN 2 <u>POS/LEN</u>	SPAN 3 <u>POS/LEN</u>	SPAN 4 <u>POS/LEN</u>	SPAN 5 <u>POS/LEN</u>	SPAN 6 <u>POS/LEN</u>	SPAN 7 <u>POS/LEN</u>	ENDBOOM <u>POS/LEN</u>
1 - 78	19 - 72	39 - 72	59 - 66	77 - 66	95 - 66	113 - 72	131 - 66
2 - 84	20 - 78	40 - 78	60 - 72	78 - 72	96 - 72	114 - 78	132 - 66
3 - 90	21 - 78	41 - 78	61 - 78	79 - 78	97 - 78	115 - 84	
4 - 90	22 - 84	42 - 84	62 - 78	80 - 78	98 - 78	116 - 84	
5 - 90	23 - 90	43 - 90	63 - 84	81 - 84	99 - 84	117 - 90	
6 - 96	24 - 90	44 - 90	64 - 84	82 - 84	100 - 84	118 - 90	
7 - 96	25 - 96	45 - 96	65 - 90	83 - 90	101 - 90	119 - 96	
8 - 96	26 - 96	46 - 96	66 - 90	84 - 90	102 - 90	120 - 96	
9 - 96	27 - 96	47 - 96	67 - 90	85 - 90	103 - 90	121 - 96	
10 - 96	28 - 96	48 - 96	68 - 90	86 - 90	104 - 90	122 - 96	
11 - 96	29 - 96	49 - 96	69 - 90	87 - 90	105 - 90	123 - 96	
12 - 90	30 - 96	50 - 96	70 - 90	88 - 90	106 - 90	124 - 90	
13 - 90	31 - 96	51 - 96	71 - 84	89 - 84	107 - 84	125 - 90	
14 - 84	32 - 90	52 - 90	72 - 84	90 - 84	108 - 84	126 - 84	
15 - 78	33 - 90	53 - 90	73 - 78	91 - 78	109 - 78	127 - 84	
16 - 78	34 - 84	54 - 84	74 - 72	92 - 72	110 - 72	128 - 78	
17 - 72	35 - 78	55 - 78	75 - 66	93 - 66	111 - 66	129 - 72	
18 - 66	36 - 78	56 - 78	76 - 66	94 - 66	112 - 66	130 - 66	
	37 - 72	57 - 72					
	38 - 66	58 - 66					

SUMMARY OF DROPS

15 - 66 IN DROP
13 - 72 IN DROP
22 - 78 IN DROP
22 - 84 IN DROP
35 - 90 IN DROP
25 - 96 IN DROP

TOTAL OF 132 DROPS
POLY STEEL MALE X PLASTIC MALE