

MCCOOK IRRIGATION LLC

SEPTEMBER 18, 2025

WISH-119601

CUSTOMER : SHIRLEY MCCONNELL

VALLEY 8000 - 30
3 TOWER - 600.92 FT
SYSTEM 400 GPM @ 17 PSI

LEGAL : NW 1/4 10-2N33W
P.O. NO. : 3249

SENNINGER UP3 XI-WOBS
SENNINGER 10 PSI REGULATORS
NELSON SR-100 .75 TB
ELEVATION 0 FT UP, 0 FT DOWN

902 EAST B STREET
MCCOOK, NEBRASKA 69001
(308)777-2130

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>			<u>IRRIGATOR</u>			
MCCOOK IRRIGATION LLC			SHIRLEY MCCONNELL			
902 EAST B STREET			NW 1/4 10-2N33W			
MCCOOK, NEBRASKA 69001			3249			
TOTAL TARGET GPM	400.00	FRICTION FACTOR USED	140	SPANS	LENGTH	PIPE I.D.
TOP OF PIVOT PRESSURE	17.00	TOTAL LENGTH	600.92	1	185.70	6.415
ENDGUN TARGET GPM	104.00	NUMBER OF TOWERS	3	1	184.96	6.415
NUMBER OF OUTLETS	228	NUMBER OF SPRINKLERS	58	1	184.70	6.415
					OH	27.28
SENNINGER UP3 XI-WOBS - 610 BLUE PADS						18.28
SENNINGER PSR-2 10 PSI SERIES REGULATORS						3.79
POLYDROPS® AVERAGE 7.5 FT						
ELEVATION IS 0 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.

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
96	10.00	270.66	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	72
97		273.16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	73
98		275.66	4.52	4.66	14.99	11.13	XI-WOB UP3 14 BLUE										25	SPSR2-10		102
99		278.16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	74
100		280.66	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	75
101	10.00	283.16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	76
102		285.66	4.68	4.66	14.97	11.13	XI-WOB UP3 14 BLUE										26	SPSR2-10		102
103		288.16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	77
104		290.66	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	78
105		293.16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	79
106	10.00	295.66	4.84	4.99	14.99	11.10	XI-WOB UP3 14.5 BLUE										27	SPSR2-10		96
107		298.16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	80
108		300.66	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	81
109		303.16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	82
110		305.66	5.00	4.99	15.03	11.10	XI-WOB UP3 14.5 BLUE										28	SPSR2-10		96
111	10.00	308.16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	83
112		310.66	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	84
113		313.16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	85
114		315.66	5.16	4.99	15.11	11.10	XI-WOB UP3 14.5 BLUE										29	SPSR2-10		96
115		318.16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	86
116	10.00	320.66	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	87
117		323.16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	88
118		325.66	5.33	5.34	15.23	11.04	XI-WOB UP3 15 DK BROWN										30	SPSR2-10		90
119		328.16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	89
120		330.66	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	90
121	10.00	333.16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	91
122		335.66	5.50	5.34	15.37	11.04	XI-WOB UP3 15 DK BROWN										31	SPSR2-10		84
123		338.16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	92
124		340.66	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	93
125		343.16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	94
126	10.00	345.66	5.66	5.68	15.54	10.98	XI-WOB UP3 15.5 DK BROWN										32	SPSR2-10		78
127		348.16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	95
128		350.66	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	96
129		353.16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	97
130		355.66	5.83	5.68	15.75	10.98	XI-WOB UP3 15.5 DK BROWN										33	SPSR2-10		72
131	10.00	358.16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	98
132		360.66	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	99
133		363.16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	100
134		365.66	6.06	6.04	15.85	10.91	XI-WOB UP3 16 ORANGE										34	SPSR2-10		66
135		368.16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	101
TOWER 2	184.96	370.66	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
136	10.20	370.86	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	102
137		373.36	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	103
138		375.86	6.22	6.40	15.83	10.85	XI-WOB UP3 16.5 ORANGE										35	SPSR2-10		66
139		378.36	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	104
140		380.86	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	105
141	10.00	383.36	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	106
142		385.86	6.32	6.40	15.64	10.85	XI-WOB UP3 16.5 ORANGE										36	SPSR2-10		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
143		388.36	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	107
144		390.86	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	108
145		393.36	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	109
146	10.00	395.86	6.48	6.41	15.40	10.85	XI-WOB UP3 16.5 ORANGE										37	SPSR2-10		78
147		398.36	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	110
148		400.86	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	111
149		403.36	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	112
150	10.00	405.86	6.57	6.41	15.19	10.85	XI-WOB UP3 16.5 ORANGE										38	SPSR2-10		84
151		408.36	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	113
152		410.86	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	114
153		413.24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	115
154	9.76	415.62	6.73	6.78	15.02	10.78	XI-WOB UP3 17 DK GREEN										39	SPSR2-10		90
155		418.12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	116
156		420.62	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	117
157		423.12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	118
158	10.00	425.62	6.98	7.16	14.87	10.71	XI-WOB UP3 17.5 DK GREEN										40	SPSR2-10		96
159		428.12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	119
160		430.62	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	120
161		433.12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	121
162	10.00	435.62	7.13	7.16	14.76	10.71	XI-WOB UP3 17.5 DK GREEN										41	SPSR2-10		96
163		438.12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	122
164		440.62	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	123
165		443.12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	124
166	10.00	445.62	7.29	7.16	14.67	10.71	XI-WOB UP3 17.5 DK GREEN										42	SPSR2-10		96
167		448.12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	125
168		450.62	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	126
169		453.12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	127
170	10.00	455.62	7.47	7.55	14.62	10.64	XI-WOB UP3 18 PURPLE										43	SPSR2-10		102
171		458.12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	128
172		460.62	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	129
173		463.12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	130
174	10.00	465.62	7.62	7.55	14.61	10.64	XI-WOB UP3 18 PURPLE										44	SPSR2-10		102
175		468.12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	131
176		470.62	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	132
177		473.12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	133
178	10.00	475.62	7.79	7.95	14.62	10.57	XI-WOB UP3 18.5 PURPLE										45	SPSR2-10		102
179		478.12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	134
180		480.62	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	135
181		483.12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	136
182	10.00	485.62	7.94	7.95	14.67	10.57	XI-WOB UP3 18.5 PURPLE										46	SPSR2-10		96
183		488.12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	137
184		490.62	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	138
185		493.12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	139
186	10.00	495.62	8.11	7.95	14.75	10.57	XI-WOB UP3 18.5 PURPLE										47	SPSR2-10		96
187		498.12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	140
188		500.62	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	141
189		503.12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	142
190	10.00	505.62	8.29	8.35	14.86	10.50	XI-WOB UP3 19 BLACK										48	SPSR2-10		90

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.	DR LEN								
191		508.12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	143	
192		510.62	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	144	
193		513.12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	145	
194	10.00	515.62		8.44		8.35		15.00		10.50		XI-WOB	UP3	19	BLACK											49	SPSR2-10						90	
195		518.12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	146	
196		520.62	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	147	
197		523.12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	148	
198	10.00	525.62		8.62		8.76		15.18		10.42		XI-WOB	UP3	19.5	BLACK											50	SPSR2-10						84	
199		528.12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	149	
200		530.62	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	150	
201		533.12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	151	
202	10.00	535.62		8.76		8.76		15.39		10.42		XI-WOB	UP3	19.5	BLACK											51	SPSR2-10						78	
203		538.12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	152	
204		540.62	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	153	
205		543.12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	154	
206	10.00	545.62		8.96		8.76		15.61		10.43		XI-WOB	UP3	19.5	BLACK											52	SPSR2-10						72	
207		548.12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	155	
208		550.62	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	156	
209		553.12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	157	
TOWER 3	184.70	555.36																																
210	10.08	555.70		8.97		9.17		15.61		10.35		XI-WOB	UP3	20	DK TURQUOISE											53	SPSR2-10						66	
211		557.77	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	158	
212		560.27	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	159	
213		562.77	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	160	
214	9.57	565.27		9.04		9.17		15.61		10.35		XI-WOB	UP3	20	DK TURQUOISE											54	SPSR2-10						66	
215		567.77	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	161	
216		570.27	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	162	
217		572.77	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	163	
218	10.00	575.27		9.36		9.18		15.61		10.35		XI-WOB	UP3	20	DK TURQUOISE											55	SPSR2-10						66	
219		577.77	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	164	
220		580.27	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	165	
221		582.77	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	166	
PIPE ID CHANGES FROM 6.415 TO 3.790																																		
222	10.00	585.27		9.61		9.60		15.61		10.27		XI-WOB	UP3	20.5	DK TURQ											56	SPSR2-10						66	
223		587.77	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	167	
224		590.27	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	168	
225		592.77	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	169	
226	10.00	595.27		7.33		7.16		15.61		10.71		XI-WOB	UP3	17.5	DK GREEN											57	SPSR2-10						66	
227		597.77	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	170	
228	5.00	600.27		3.36		3.44		15.61		11.26		XI-WOB	UP3	12	RED											58	SPSR2-10						66	
OVERHANG	45.56	600.92				104.36	ENDGUN					(1)	NELSON	SR-100	.75	TB																		
2HP BOOSTER PUMP																																		

BOOSTER PUMP AT TOWER ADDS 27.51 PSI TO PIPE PRESSURE FOR A PRESSURE OF 41.75 PSI
 FRICTION LOSS THROUGH ENDGUN VALVE IS 0.67 PSI - ENDGUN PRESSURE IS 41.08 PSI

TOTAL GPM = 400.53
 GPA = 11.37

MINIMUM RECOMMENDED REGULATOR INLET PRESSURE IS 15.00 PSI
 WITH GRADUATED ELEVATION OF .00 FT THE INLET PRESSURE IS 17.24 PSI FOR SPRINKLER 56
 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</u>	<u>AVERAGE IN. DELIVERED</u>		
						<u>IN. PER HR DELIVERED UNDER SPAN</u>	<u>FOR REVOLUTION TIME</u>		
							<u>36 HR</u>	<u>48 HR</u>	<u>60 HR</u>
1	2.49	28.27	28.72	2%	11.55	0.026	0.92	1.22	1.53
2	7.42	84.35	83.94	0%	11.31	0.025	0.90	1.20	1.50
3	12.34	140.20	140.06	0%	11.35	0.025	0.90	1.20	1.51
OVERHANG	3.80	43.18	43.44	1%	11.43	0.025	0.91	1.21	1.52
ENDGUN	8.23	104.00	104.36	12%	12.67				
TOTAL	34.28	400.00	400.53		11.68				

SUMMARY OF SPRINKLERS

5	XI-WOB UP3 7 LIME
1	XI-WOB UP3 7.5 LIME
1	XI-WOB UP3 8 LAVENDER
1	XI-WOB UP3 8.5 LAVENDER
1	XI-WOB UP3 9 GREY
2	XI-WOB UP3 9.5 GREY
1	XI-WOB UP3 10 TURQUOISE
2	XI-WOB UP3 10.5 TURQUOISE
1	XI-WOB UP3 11 YELLOW
2	XI-WOB UP3 11.5 YELLOW
3	XI-WOB UP3 12 RED
2	XI-WOB UP3 12.5 RED
2	XI-WOB UP3 13 WHITE
1	XI-WOB UP3 13.5 WHITE
2	XI-WOB UP3 14 BLUE
3	XI-WOB UP3 14.5 BLUE
2	XI-WOB UP3 15 DK BROWN
2	XI-WOB UP3 15.5 DK BROWN
1	XI-WOB UP3 16 ORANGE
4	XI-WOB UP3 16.5 ORANGE
1	XI-WOB UP3 17 DK GREEN
4	XI-WOB UP3 17.5 DK GREEN
2	XI-WOB UP3 18 PURPLE
3	XI-WOB UP3 18.5 PURPLE
2	XI-WOB UP3 19 BLACK
3	XI-WOB UP3 19.5 BLACK
3	XI-WOB UP3 20 DK TURQUOISE
1	XI-WOB UP3 20.5 DK TURQ

170 PLUGS**SUMMARY OF DROPS**

9	66 IN DROP
5	72 IN DROP
5	78 IN DROP
6	84 IN DROP
9	90 IN DROP
15	96 IN DROP
9	102 IN DROP

TOTAL OF 58 DROPS**SUMMARY OF REGULATORS**

58 Senn PSR2 10 psi

TOTAL OF 58 REGULATORS

NOZZLE POSITION CHART

XI-WOB UP3 7 LIME	1, 2, 3, 4, 5
XI-WOB UP3 7.5 LIME	6
XI-WOB UP3 8 LAVENDER	7
XI-WOB UP3 8.5 LAVENDER	8
XI-WOB UP3 9 GREY	9
XI-WOB UP3 9.5 GREY	10, 11
XI-WOB UP3 10 TURQUOISE	12
XI-WOB UP3 10.5 TURQUOISE	13, 14
XI-WOB UP3 11 YELLOW	15
XI-WOB UP3 11.5 YELLOW	16, 17
XI-WOB UP3 12 RED	18, 19, 58
XI-WOB UP3 12.5 RED	20, 21
XI-WOB UP3 13 WHITE	22, 23
XI-WOB UP3 13.5 WHITE	24
XI-WOB UP3 14 BLUE	25, 26
XI-WOB UP3 14.5 BLUE	27, 28, 29
XI-WOB UP3 15 DK BROWN	30, 31
XI-WOB UP3 15.5 DK BROWN	32, 33
XI-WOB UP3 16 ORANGE	34
XI-WOB UP3 16.5 ORANGE	35, 36, 37, 38
XI-WOB UP3 17 DK GREEN	39
XI-WOB UP3 17.5 DK GREEN	40, 41, 42, 57
XI-WOB UP3 18 PURPLE	43, 44
XI-WOB UP3 18.5 PURPLE	45, 46, 47
XI-WOB UP3 19 BLACK	48, 49
XI-WOB UP3 19.5 BLACK	50, 51, 52
XI-WOB UP3 20 DK TURQUOISE	53, 54, 55
XI-WOB UP3 20.5 DK TURQ	56

MCCOOK IRRIGATION LLC
902 EAST B STREET
MCCOOK, NEBRASKA 69001

SEPTEMBER 18, 2025
WISH-119601
SHIRLEY MCCONNELL
NW 1/4 10-2N33W
400 GPM @ 17 PSI

VALLEY 8000 - 30
SENNINGER UP3 XI-WOBS
SENNINGER 10 PSI REGULATORS
POLYDROPS®
NELSON SR-100 .75 TB

Rotation time at 100% = 8.16 Hours Or 489 minutes

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
1	PLUG				61	PLUG				59	PLUG				44	PLUG			
2	PLUG				TOWER 1	60	PLUG			60	PLUG				45	PLUG			
3	PLUG					61	84	31	15	PSR210	46	PLUG			46	PLUG	46	18.5	PSR210
4	84	1	7	PSR210	2	PLUG				62	PLUG				47	96			
5	PLUG				3	PLUG				63	PLUG				48	PLUG			
6	90	2	7	PSR210	4	PLUG				64	PLUG				49	PLUG			
7	PLUG				5	72	17	11.5	PSR210	65	78	32	15.5	PSR210	50	PLUG			
8	PLUG				6	PLUG				66	PLUG				51	96	47	18.5	PSR210
9	PLUG				7	PLUG				67	PLUG				52	PLUG			
10	96	3	7	PSR210	8	PLUG				68	PLUG				53	PLUG			
11	PLUG				9	78	18	12	PSR210	69	72	33	15.5	PSR210	54	PLUG			
12	PLUG				10	PLUG				70	PLUG				55	90	48	19	PSR210
13	PLUG				11	PLUG				71	PLUG				56	PLUG			
14	96	4	7	PSR210	12	PLUG				72	PLUG				57	PLUG			
15	PLUG				13	84	19	12	PSR210	73	66	34	16	PSR210	58	PLUG			
16	PLUG				14	PLUG				74	PLUG				59	90	49	19	PSR210
17	PLUG				15	PLUG				TOWER 2	60	PLUG			60	PLUG			
18	96	5	7	PSR210	16	PLUG					61	PLUG			61	PLUG			
19	PLUG				17	90	20	12.5	PSR210	2	PLUG				62	PLUG			
20	PLUG				18	PLUG				3	66	35	16.5	PSR210	63	84	50	19.5	PSR210
21	PLUG				19	PLUG				4	PLUG				64	PLUG			
22	102	6	7.5	PSR210	20	PLUG				5	PLUG				65	PLUG			
23	PLUG				21	90	21	12.5	PSR210	6	PLUG				66	PLUG			
24	PLUG				22	PLUG				7	72	36	16.5	PSR210	67	78	51	19.5	PSR210
25	PLUG				23	PLUG				8	PLUG				68	PLUG			
26	102	7	8	PSR210	24	PLUG				9	PLUG				69	PLUG			
27	PLUG				25	96	22	13	PSR210	10	PLUG				70	PLUG			
28	PLUG				26	PLUG				11	78	37	16.5	PSR210	71	72	52	19.5	PSR210
29	PLUG				27	PLUG				12	PLUG				72	PLUG			
30	102	8	8.5	PSR210	28	PLUG				13	PLUG				73	PLUG			
31	PLUG				29	96	23	13	PSR210	14	PLUG				74	PLUG			
32	PLUG				30	PLUG				15	84	38	16.5	PSR210	TOWER 3	66	53	20	PSR210
33	PLUG				31	PLUG				16	PLUG					2	PLUG		
34	96	9	9	PSR210	32	PLUG				17	PLUG				3	PLUG			
35	PLUG				33	102	24	13.5	PSR210	18	PLUG				4	PLUG			
36	PLUG				34	PLUG				19	90	39	17	PSR210	5	66	54	20	PSR210
37	PLUG				35	PLUG				20	PLUG				6	PLUG			
38	96	10	9.5	PSR210	36	PLUG				21	PLUG				7	PLUG			
39	PLUG				37	102	25	14	PSR210	22	PLUG				8	PLUG			
40	PLUG				38	PLUG				23	96	40	17.5	PSR210	9	66	55	20	PSR210
41	PLUG				39	PLUG				24	PLUG				10	PLUG			
42	90	11	9.5	PSR210	40	PLUG				25	PLUG				11	PLUG			
43	PLUG				41	102	26	14	PSR210	26	PLUG				12	PLUG			
44	PLUG				42	PLUG				27	96	41	17.5	PSR210	13	66	56	20.5	PSR210
45	PLUG				43	PLUG				28	PLUG				14	PLUG			
46	90	12	10	PSR210	44	PLUG				29	PLUG				15	PLUG			
47	PLUG				45	96	27	14.5	PSR210	30	PLUG				16	PLUG			
48	PLUG				46	PLUG				31	96	42	17.5	PSR210	17	66	57	17.5	PSR210
49	PLUG				47	PLUG				32	PLUG				18	PLUG			
50	84	13	10.5	PSR210	48	PLUG				33	PLUG				19	66	58	12	PSR210
51	PLUG				49	96	28	14.5	PSR210	34	PLUG								
52	PLUG				50	PLUG				35	102	43	18	PSR210					
53	PLUG				51	PLUG				36	PLUG								
54	78	14	10.5	PSR210	52	PLUG				37	PLUG								
55	PLUG				53	96	29	14.5	PSR210	38	PLUG								
56	PLUG				54	PLUG				39	102	44	18	PSR210					
57	PLUG				55	PLUG				40	PLUG								
58	72	15	11	PSR210	56	PLUG				41	PLUG								
59	PLUG				57	90	30	15	PSR210	42	PLUG								
60	PLUG				58	PLUG				43	102	45	18.5	PSR210					

PRECIPITATION CHART FOR FULL CIRCLE

WISH-119601

SEPTEMBER 18, 2025

DEALER - MCCOOK IRRIGATION LLC

IRRIGATOR - SHIRLEY MCCONNELL

FIELD - NW 1/4 10-2N33W

TOTAL LENGTH PIPE = 600.92 SYSTEM PRESSURE = 17 PSI
GPM UNDER PIPE = 296.17 TOTAL GPM = 400.53
ACRES UNDER PIPE = 26.04
RANGE OF ENDGUN = 88.48
GPM OF ENDGUN = 104.36
ACRES UNDER ENDGUN = 8.23
WATERING LENGTH = 689.40

MOTOR SIZE (HP) = .6
LOADED MOTOR RPM = 1800
CENTER GEAR BOX RATIO = 53
WHEEL GEAR BOX RATIO = 52
TIRE SIZE = 11 X 24.5
LAST TOWER SPEED (FPM) = 7.13

PRECIPITATION DATA FIGURED WITH ENDGUN RUNNING

PRECIPITATION BASED			% TIMER BASED		
PRECIPITATION INCHES	% TIMER SETTING	TIME HOURS	% TIMER SETTING	PRECIPITATION INCHES	TIME HOURS
.20	100.00	8.16 - 489(min)	100.00	.20	8.16 - 489(min)
.25	81.98	9.95	90.00	.23	9.06
.30	68.32	11.94	80.00	.26	10.20
.40	51.24	15.92	70.00	.29	11.65
.50	40.99	19.90	60.00	.34	13.59
.60	34.16	23.88	50.00	.41	16.31
.70	29.28	27.86	45.00	.46	18.13
.75	27.33	29.85	40.00	.51	20.39
.80	25.62	31.84	35.00	.59	23.30
.90	22.77	35.82	30.00	.68	27.19
1.00	20.50	39.80	25.00	.82	32.63
1.25	16.40	49.75	20.00	1.02	40.78
1.50	13.66	59.70	15.00	1.37	54.38
1.75	11.71	69.64	10.00	2.05	81.57
2.00	10.25	79.59	5.00	4.10	163.13

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 - MCCOOK IRRIGATION LLC
P.O. - 3249

IRRIGATOR - SHIRLEY MCCONNELL
FIELD - NW 1/4 10-2N33W

<u>SPAN 1</u> <u>POS/LEN</u>	<u>SPAN 2</u> <u>POS/LEN</u>	<u>SPAN 3</u> <u>POS/LEN</u>	<u>ENDBOOM</u> <u>POS/LEN</u>
1 - 84	16 - 66	35 - 66	53 - 66
2 - 90	17 - 72	36 - 72	54 - 66
3 - 96	18 - 78	37 - 78	55 - 66
4 - 96	19 - 84	38 - 84	56 - 66
5 - 96	20 - 90	39 - 90	57 - 66
6 - 102	21 - 90	40 - 96	58 - 66
7 - 102	22 - 96	41 - 96	
8 - 102	23 - 96	42 - 96	
9 - 96	24 - 102	43 - 102	
10 - 96	25 - 102	44 - 102	
11 - 90	26 - 102	45 - 102	
12 - 90	27 - 96	46 - 96	
13 - 84	28 - 96	47 - 96	
14 - 78	29 - 96	48 - 90	
15 - 72	30 - 90	49 - 90	
	31 - 84	50 - 84	
	32 - 78	51 - 78	
	33 - 72	52 - 72	
	34 - 66		

SUMMARY OF DROPS

9 - 66 IN DROP
5 - 72 IN DROP
5 - 78 IN DROP
6 - 84 IN DROP
9 - 90 IN DROP
15 - 96 IN DROP
9 - 102 IN DROP

TOTAL OF 58 DROPS
POLY STEEL MALE X PLASTIC MALE