

# SUPERIOR IRRIGATION

MAY 02, 2024

WISH-113830

CUSTOMER : MITCH ROGERS

LINDSAY GEN II - 30  
8 TOWER - 1292.79 FT  
SYSTEM 300 GPM @ 17 PSI

LEGAL : WIGGINS ROAD K

SENNINGER UP3 LDN SPRAY NOZZLES  
SENNINGER 10 PSI REGULATORS  
NO ENDGUN  
ELEVATION 10 FT UP, 0 FT DOWN

115 EAST CENTRAL AVENUE  
WIGGINS, COLORADO 80654  
(970)483-7247

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#### 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.

DEALER  
SUPERIOR IRRIGATION  
115 EAST CENTRAL AVENUE  
WIGGINS, COLORADO 80654

IRRIGATOR  
MITCH ROGERS  
WIGGINS ROAD K

TOTAL TARGET GPM	300.00	FRICTION FACTOR USED	138	SPANS	LENGTH	PIPE I.D.
TOP OF PIVOT PRESSURE	17.00	TOTAL LENGTH	1292.79	1	159.64	6.395
NO ENDGUN		NUMBER OF TOWERS	8	7	157.04	6.395
NUMBER OF OUTLETS	526	NUMBER OF SPRINKLERS	422	OH	33.87	5.369

SENNINGER UP3 LDN SPRAY NOZZLES - CONCAVE GROOVED PADS  
SENNINGER PSR-2 10 PSI SERIES REGULATORS  
DROPS AVERAGE 11.5 FT OF .75 I.D. FLEXIBLE HOSE - EXTERNAL WEIGHT  
ELEVATION IS 10 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.
1		2.92	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
2		5.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2
3		7.83	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3
4		10.33	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4
5		12.83	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5
6		15.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6
7		17.67	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7
8	20.17	20.17	0.09	0.37	16.69	11.40	LD	NOZ	UP3	4	LT	BLUE					1	SPSR2-10	
9		22.59	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8
10	4.84	25.01	0.04	0.37	16.57	11.40	LD	NOZ	UP3	4	LT	BLUE					2	SPSR2-10	
11		27.51	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9
12	4.92	29.93	0.05	0.37	16.45	11.40	LD	NOZ	UP3	4	LT	BLUE					3	SPSR2-10	
13		32.35	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10
14	4.92	34.85	0.06	0.37	16.35	11.40	LD	NOZ	UP3	4	LT	BLUE					4	SPSR2-10	
15		37.27	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11
16	4.84	39.69	0.07	0.37	16.26	11.40	LD	NOZ	UP3	4	LT	BLUE					5	SPSR2-10	
17		42.19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12
18	5.00	44.69	0.08	0.37	16.17	11.40	LD	NOZ	UP3	4	LT	BLUE					6	SPSR2-10	
19		47.02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13
20	4.82	49.51	0.09	0.37	16.10	11.40	LD	NOZ	UP3	4	LT	BLUE					7	SPSR2-10	
21		51.84	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14
22	4.83	54.34	0.09	0.37	16.03	11.40	LD	NOZ	UP3	4	LT	BLUE					8	SPSR2-10	
23		56.84	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15
24	4.92	59.26	0.10	0.37	15.98	11.40	LD	NOZ	UP3	4	LT	BLUE					9	SPSR2-10	
25		61.68	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16
26	4.92	64.18	0.11	0.37	15.93	11.40	LD	NOZ	UP3	4	LT	BLUE					10	SPSR2-10	
27		66.68	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	17
28	4.83	69.01	0.12	0.37	15.89	11.40	LD	NOZ	UP3	4	LT	BLUE					11	SPSR2-10	
29		71.54	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	18
30	4.86	73.87	0.13	0.37	15.87	11.40	LD	NOZ	UP3	4	LT	BLUE					12	SPSR2-10	
31		76.37	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	19
32	5.00	78.87	0.14	0.37	15.85	11.40	LD	NOZ	UP3	4	LT	BLUE					13	SPSR2-10	
33		81.29	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	20
34	4.84	83.71	0.14	0.37	15.84	11.40	LD	NOZ	UP3	4	LT	BLUE					14	SPSR2-10	
35		86.21	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	21
36	4.92	88.63	0.15	0.37	15.84	11.40	LD	NOZ	UP3	4	LT	BLUE					15	SPSR2-10	
37		91.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	22
38	4.92	93.55	0.16	0.37	15.85	11.40	LD	NOZ	UP3	4	LT	BLUE					16	SPSR2-10	
39		95.97	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	23
40	4.84	98.39	0.17	0.37	15.87	11.40	LD	NOZ	UP3	4	LT	BLUE					17	SPSR2-10	
41		100.89	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	24
42	4.92	103.31	0.18	0.37	15.90	11.40	LD	NOZ	UP3	4	LT	BLUE					18	SPSR2-10	
43		105.73	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	25
44	4.92	108.23	0.19	0.37	15.94	11.40	LD	NOZ	UP3	4	LT	BLUE					19	SPSR2-10	
45		110.73	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	26
46	4.83	113.06	0.19	0.37	15.98	11.40	LD	NOZ	UP3	4	LT	BLUE					20	SPSR2-10	
47		115.54	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	27
48	4.81	117.87	0.20	0.37	16.04	11.40	LD	NOZ	UP3	4	LT	BLUE					21	SPSR2-10	



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.
96	5.00	235.91	0.41	0.37	15.51	11.40	LD	NOZ	UP3	4	LT	BLUE		45	SPSR2-10	52			
97		238.33	-	-	-	-	-	-	-	-	-	-	-	-	-				
98	4.84	240.75	0.41	0.37	15.51	11.40	LD	NOZ	UP3	4	LT	BLUE		46	SPSR2-10	53			
99		243.25	-	-	-	-	-	-	-	-	-	-	-	-	-				
100	4.92	245.67	0.42	0.37	15.51	11.40	LD	NOZ	UP3	4	LT	BLUE		47	SPSR2-10	54			
101		248.09	-	-	-	-	-	-	-	-	-	-	-	-	-				
102	4.92	250.59	0.43	0.48	15.52	11.40	LD	NOZ	UP3	4.5	LT	BLUE		48	SPSR2-10	55			
103		253.01	-	-	-	-	-	-	-	-	-	-	-	-	-				
104	4.84	255.43	0.44	0.48	15.54	11.40	LD	NOZ	UP3	4.5	LT	BLUE		49	SPSR2-10	56			
105		257.93	-	-	-	-	-	-	-	-	-	-	-	-	-				
106	4.92	260.35	0.45	0.48	15.57	11.40	LD	NOZ	UP3	4.5	LT	BLUE		50	SPSR2-10	57			
107		262.77	-	-	-	-	-	-	-	-	-	-	-	-	-				
108	4.92	265.27	0.45	0.48	15.60	11.40	LD	NOZ	UP3	4.5	LT	BLUE		51	SPSR2-10	58			
109		267.77	-	-	-	-	-	-	-	-	-	-	-	-	-				
110	4.83	270.10	0.46	0.48	15.65	11.40	LD	NOZ	UP3	4.5	LT	BLUE		52	SPSR2-10	59			
111		272.58	-	-	-	-	-	-	-	-	-	-	-	-	-				
112	4.81	274.91	0.47	0.48	15.71	11.40	LD	NOZ	UP3	4.5	LT	BLUE		53	SPSR2-10	60			
113		277.41	-	-	-	-	-	-	-	-	-	-	-	-	-				
114	5.00	279.91	0.48	0.48	15.78	11.40	LD	NOZ	UP3	4.5	LT	BLUE		54	SPSR2-10	61			
115		282.33	-	-	-	-	-	-	-	-	-	-	-	-	-				
116	4.84	284.75	0.49	0.48	15.85	11.40	LD	NOZ	UP3	4.5	LT	BLUE		55	SPSR2-10	62			
117		287.25	-	-	-	-	-	-	-	-	-	-	-	-	-				
118	4.92	289.67	0.50	0.48	15.94	11.40	LD	NOZ	UP3	4.5	LT	BLUE		56	SPSR2-10	63			
119		292.09	-	-	-	-	-	-	-	-	-	-	-	-	-				
120	4.92	294.59	0.50	0.48	16.03	11.40	LD	NOZ	UP3	4.5	LT	BLUE		57	SPSR2-10	64			
121		297.01	-	-	-	-	-	-	-	-	-	-	-	-	-				
122	4.84	299.43	0.51	0.48	16.14	11.40	LD	NOZ	UP3	4.5	LT	BLUE		58	SPSR2-10	65			
123		301.93	-	-	-	-	-	-	-	-	-	-	-	-	-				
124	4.92	304.35	0.52	0.48	16.25	11.40	LD	NOZ	UP3	4.5	LT	BLUE		59	SPSR2-10	66			
125		306.77	-	-	-	-	-	-	-	-	-	-	-	-	-				
126	4.92	309.27	0.53	0.48	16.34	11.40	LD	NOZ	UP3	4.5	LT	BLUE		60	SPSR2-10	67			
127		311.77	-	-	-	-	-	-	-	-	-	-	-	-	-				
128	4.83	314.10	0.57	0.59	16.33	11.40	LD	NOZ	UP3	5	BEIGE		61	SPSR2-10	68				
TOWER 2	157.04	316.68																	
129		317.00	-	-	-	-	-	-	-	-	-	-	-	-	-	68			
130	5.48	319.58	0.58	0.59	16.32	11.40	LD	NOZ	UP3	5	BEIGE		62	SPSR2-10					
131		321.91	-	-	-	-	-	-	-	-	-	-	-	-	-	69			
132	4.83	324.41	0.55	0.59	16.29	11.40	LD	NOZ	UP3	5	BEIGE		63	SPSR2-10					
133		326.91	-	-	-	-	-	-	-	-	-	-	-	-	-	70			
134	4.92	329.33	0.57	0.59	16.15	11.40	LD	NOZ	UP3	5	BEIGE		64	SPSR2-10					
135		331.75	-	-	-	-	-	-	-	-	-	-	-	-	-	71			
136	4.92	334.25	0.57	0.59	16.02	11.40	LD	NOZ	UP3	5	BEIGE		65	SPSR2-10					
137		336.67	-	-	-	-	-	-	-	-	-	-	-	-	-	72			
138	4.84	339.09	0.58	0.59	15.90	11.40	LD	NOZ	UP3	5	BEIGE		66	SPSR2-10					
139		341.59	-	-	-	-	-	-	-	-	-	-	-	-	-	73			
140	4.92	344.01	0.59	0.59	15.79	11.40	LD	NOZ	UP3	5	BEIGE		67	SPSR2-10					
141		346.43	-	-	-	-	-	-	-	-	-	-	-	-	-	74			
142	4.92	348.93	0.60	0.59	15.69	11.40	LD	NOZ	UP3	5	BEIGE		68	SPSR2-10					

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.
143		351.35	-	-	-	-	-	-	-	-	-	-	-	-	75
144	4.84	353.77	0.61	0.59	15.60	11.40	LD	NOZ	UP3	5	BEIGE		69	SPSR2-10	
145		356.27	-	-	-	-	-	-	-	-	-	-	-	-	76
146	5.00	358.77	0.62	0.59	15.52	11.40	LD	NOZ	UP3	5	BEIGE		70	SPSR2-10	
147		361.10	-	-	-	-	-	-	-	-	-	-	-	-	77
148	4.82	363.59	0.61	0.59	15.45	11.40	LD	NOZ	UP3	5	BEIGE		71	SPSR2-10	
149		365.92	-	-	-	-	-	-	-	-	-	-	-	-	78
150	4.83	368.42	0.63	0.59	15.38	11.40	LD	NOZ	UP3	5	BEIGE		72	SPSR2-10	
151		370.92	-	-	-	-	-	-	-	-	-	-	-	-	79
152	4.92	373.34	0.64	0.59	15.33	11.40	LD	NOZ	UP3	5	BEIGE		73	SPSR2-10	
153		375.76	-	-	-	-	-	-	-	-	-	-	-	-	80
154	4.92	378.26	0.65	0.59	15.28	11.40	LD	NOZ	UP3	5	BEIGE		74	SPSR2-10	
155		380.76	-	-	-	-	-	-	-	-	-	-	-	-	81
156	4.83	383.09	0.65	0.59	15.25	11.40	LD	NOZ	UP3	5	BEIGE		75	SPSR2-10	
157		385.62	-	-	-	-	-	-	-	-	-	-	-	-	82
158	4.86	387.95	0.67	0.72	15.22	11.40	LD	NOZ	UP3	5.5	BEIGE		76	SPSR2-10	
159		390.45	-	-	-	-	-	-	-	-	-	-	-	-	83
160	5.00	392.95	0.68	0.72	15.21	11.40	LD	NOZ	UP3	5.5	BEIGE		77	SPSR2-10	
161		395.37	-	-	-	-	-	-	-	-	-	-	-	-	84
162	4.84	397.79	0.68	0.72	15.20	11.40	LD	NOZ	UP3	5.5	BEIGE		78	SPSR2-10	
163		400.29	-	-	-	-	-	-	-	-	-	-	-	-	85
164	4.92	402.71	0.69	0.72	15.20	11.40	LD	NOZ	UP3	5.5	BEIGE		79	SPSR2-10	
165		405.13	-	-	-	-	-	-	-	-	-	-	-	-	86
166	4.92	407.63	0.70	0.72	15.21	11.40	LD	NOZ	UP3	5.5	BEIGE		80	SPSR2-10	
167		410.05	-	-	-	-	-	-	-	-	-	-	-	-	87
168	4.84	412.47	0.71	0.72	15.24	11.40	LD	NOZ	UP3	5.5	BEIGE		81	SPSR2-10	
169		414.97	-	-	-	-	-	-	-	-	-	-	-	-	88
170	4.92	417.39	0.72	0.72	15.27	11.40	LD	NOZ	UP3	5.5	BEIGE		82	SPSR2-10	
171		419.81	-	-	-	-	-	-	-	-	-	-	-	-	89
172	4.92	422.31	0.72	0.72	15.31	11.40	LD	NOZ	UP3	5.5	BEIGE		83	SPSR2-10	
173		424.81	-	-	-	-	-	-	-	-	-	-	-	-	90
174	4.83	427.14	0.72	0.72	15.35	11.40	LD	NOZ	UP3	5.5	BEIGE		84	SPSR2-10	
175		429.62	-	-	-	-	-	-	-	-	-	-	-	-	91
176	4.81	431.95	0.74	0.72	15.41	11.40	LD	NOZ	UP3	5.5	BEIGE		85	SPSR2-10	
177		434.45	-	-	-	-	-	-	-	-	-	-	-	-	92
178	5.00	436.95	0.75	0.72	15.48	11.40	LD	NOZ	UP3	5.5	BEIGE		86	SPSR2-10	
179		439.37	-	-	-	-	-	-	-	-	-	-	-	-	93
180	4.84	441.79	0.76	0.72	15.56	11.40	LD	NOZ	UP3	5.5	BEIGE		87	SPSR2-10	
181		444.29	-	-	-	-	-	-	-	-	-	-	-	-	94
182	4.92	446.71	0.77	0.72	15.64	11.40	LD	NOZ	UP3	5.5	BEIGE		88	SPSR2-10	
183		449.13	-	-	-	-	-	-	-	-	-	-	-	-	95
184	4.92	451.63	0.77	0.72	15.74	11.40	LD	NOZ	UP3	5.5	BEIGE		89	SPSR2-10	
185		454.05	-	-	-	-	-	-	-	-	-	-	-	-	96
186	4.84	456.47	0.78	0.72	15.85	11.40	LD	NOZ	UP3	5.5	BEIGE		90	SPSR2-10	
187		458.97	-	-	-	-	-	-	-	-	-	-	-	-	97
188	4.92	461.39	0.80	0.85	15.96	11.40	LD	NOZ	UP3	6	GOLD		91	SPSR2-10	
189		463.81	-	-	-	-	-	-	-	-	-	-	-	-	98
190	4.92	466.31	0.80	0.85	16.05	11.40	LD	NOZ	UP3	6	GOLD		92	SPSR2-10	

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.
191		468.81	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	99
192	4.83	471.14	0.85	0.85	16.04	11.40	LD NOZ	UP3	6	GOLD			93	SPSR2-10	
TOWER 3	157.04	473.72													
193		474.04	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	100
194	5.48	476.62	0.65	0.72	16.03	11.40	LD NOZ	UP3	5.5	BEIGE			94	SPSR2-10	
195	2.33	478.95	0.41	0.37	16.03	11.40	LD NOZ	UP3	4	LT BLUE			95	SPSR2-10	
196	2.50	481.45	0.42	0.37	16.01	11.40	LD NOZ	UP3	4	LT BLUE			96	SPSR2-10	
197	2.50	483.95	0.42	0.37	15.94	11.40	LD NOZ	UP3	4	LT BLUE			97	SPSR2-10	
198	2.42	486.37	0.41	0.37	15.87	11.40	LD NOZ	UP3	4	LT BLUE			98	SPSR2-10	
199	2.42	488.79	0.42	0.37	15.81	11.40	LD NOZ	UP3	4	LT BLUE			99	SPSR2-10	
200	2.50	491.29	0.42	0.37	15.74	11.40	LD NOZ	UP3	4	LT BLUE			100	SPSR2-10	
201	2.42	493.71	0.42	0.37	15.68	11.40	LD NOZ	UP3	4	LT BLUE			101	SPSR2-10	
202	2.42	496.13	0.43	0.48	15.62	11.40	LD NOZ	UP3	4.5	LT BLUE			102	SPSR2-10	
203	2.50	498.63	0.43	0.48	15.57	11.40	LD NOZ	UP3	4.5	LT BLUE			103	SPSR2-10	
204	2.42	501.05	0.43	0.37	15.52	11.40	LD NOZ	UP3	4	LT BLUE			104	SPSR2-10	
205	2.42	503.47	0.43	0.48	15.46	11.40	LD NOZ	UP3	4.5	LT BLUE			105	SPSR2-10	
206	2.50	505.97	0.44	0.48	15.42	11.40	LD NOZ	UP3	4.5	LT BLUE			106	SPSR2-10	
207	2.42	508.39	0.43	0.48	15.37	11.40	LD NOZ	UP3	4.5	LT BLUE			107	SPSR2-10	
208	2.42	510.81	0.44	0.48	15.33	11.40	LD NOZ	UP3	4.5	LT BLUE			108	SPSR2-10	
209	2.50	513.31	0.45	0.48	15.28	11.40	LD NOZ	UP3	4.5	LT BLUE			109	SPSR2-10	
210	2.50	515.81	0.44	0.48	15.24	11.40	LD NOZ	UP3	4.5	LT BLUE			110	SPSR2-10	
211	2.33	518.14	0.44	0.48	15.21	11.40	LD NOZ	UP3	4.5	LT BLUE			111	SPSR2-10	
212	2.49	520.63	0.44	0.48	15.17	11.40	LD NOZ	UP3	4.5	LT BLUE			112	SPSR2-10	
213	2.33	522.96	0.44	0.48	15.14	11.40	LD NOZ	UP3	4.5	LT BLUE			113	SPSR2-10	
214	2.50	525.46	0.46	0.48	15.11	11.40	LD NOZ	UP3	4.5	LT BLUE			114	SPSR2-10	
215	2.50	527.96	0.45	0.48	15.08	11.40	LD NOZ	UP3	4.5	LT BLUE			115	SPSR2-10	
216	2.42	530.38	0.45	0.48	15.06	11.40	LD NOZ	UP3	4.5	LT BLUE			116	SPSR2-10	
217	2.42	532.80	0.46	0.48	15.04	11.40	LD NOZ	UP3	4.5	LT BLUE			117	SPSR2-10	
218	2.50	535.30	0.47	0.48	15.02	11.40	LD NOZ	UP3	4.5	LT BLUE			118	SPSR2-10	
219	2.50	537.80	0.45	0.48	15.00	11.40	LD NOZ	UP3	4.5	LT BLUE			119	SPSR2-10	
220	2.33	540.13	0.46	0.48	14.98	11.40	LD NOZ	UP3	4.5	LT BLUE			120	SPSR2-10	
221	2.53	542.66	0.46	0.48	14.97	11.40	LD NOZ	UP3	4.5	LT BLUE			121	SPSR2-10	
222	2.33	544.99	0.46	0.48	14.96	11.40	LD NOZ	UP3	4.5	LT BLUE			122	SPSR2-10	
223	2.50	547.49	0.48	0.48	14.95	11.40	LD NOZ	UP3	4.5	LT BLUE			123	SPSR2-10	
224	2.50	549.99	0.47	0.48	14.94	11.40	LD NOZ	UP3	4.5	LT BLUE			124	SPSR2-10	
225	2.42	552.41	0.47	0.48	14.94	11.40	LD NOZ	UP3	4.5	LT BLUE			125	SPSR2-10	
226	2.42	554.83	0.48	0.48	14.94	11.40	LD NOZ	UP3	4.5	LT BLUE			126	SPSR2-10	
227	2.50	557.33	0.48	0.48	14.94	11.40	LD NOZ	UP3	4.5	LT BLUE			127	SPSR2-10	
228	2.42	559.75	0.47	0.48	14.94	11.40	LD NOZ	UP3	4.5	LT BLUE			128	SPSR2-10	
229	2.42	562.17	0.48	0.48	14.95	11.40	LD NOZ	UP3	4.5	LT BLUE			129	SPSR2-10	
230	2.50	564.67	0.49	0.48	14.96	11.40	LD NOZ	UP3	4.5	LT BLUE			130	SPSR2-10	
231	2.42	567.09	0.48	0.48	14.97	11.40	LD NOZ	UP3	4.5	LT BLUE			131	SPSR2-10	
232	2.42	569.51	0.49	0.48	14.98	11.40	LD NOZ	UP3	4.5	LT BLUE			132	SPSR2-10	
233	2.50	572.01	0.49	0.48	14.99	11.40	LD NOZ	UP3	4.5	LT BLUE			133	SPSR2-10	
234	2.42	574.43	0.49	0.48	15.01	11.40	LD NOZ	UP3	4.5	LT BLUE			134	SPSR2-10	
235	2.42	576.85	0.50	0.48	15.03	11.40	LD NOZ	UP3	4.5	LT BLUE			135	SPSR2-10	
236	2.50	579.35	0.51	0.48	15.05	11.40	LD NOZ	UP3	4.5	LT BLUE			136	SPSR2-10	
237	2.50	581.85	0.49	0.48	15.08	11.40	LD NOZ	UP3	4.5	LT BLUE			137	SPSR2-10	



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.
238	2.33	584.18	0.49	0.48	15.10	11.40	LD NOZ UP3 4.5 LT BLUE						138	SPSR2-10	
239	2.48	586.66	0.49	0.48	15.13	11.40	LD NOZ UP3 4.5 LT BLUE						139	SPSR2-10	
240	2.33	588.99	0.50	0.48	15.16	11.40	LD NOZ UP3 4.5 LT BLUE						140	SPSR2-10	
241	2.50	591.49	0.52	0.48	15.20	11.40	LD NOZ UP3 4.5 LT BLUE						141	SPSR2-10	
242	2.50	593.99	0.51	0.48	15.23	11.40	LD NOZ UP3 4.5 LT BLUE						142	SPSR2-10	
243	2.42	596.41	0.51	0.48	15.27	11.40	LD NOZ UP3 4.5 LT BLUE						143	SPSR2-10	
244	2.42	598.83	0.52	0.48	15.31	11.40	LD NOZ UP3 4.5 LT BLUE						144	SPSR2-10	
245	2.50	601.33	0.52	0.48	15.35	11.40	LD NOZ UP3 4.5 LT BLUE						145	SPSR2-10	
246	2.42	603.75	0.51	0.48	15.40	11.40	LD NOZ UP3 4.5 LT BLUE						146	SPSR2-10	
247	2.42	606.17	0.52	0.48	15.45	11.40	LD NOZ UP3 4.5 LT BLUE						147	SPSR2-10	
248	2.50	608.67	0.52	0.48	15.50	11.40	LD NOZ UP3 4.5 LT BLUE						148	SPSR2-10	
249	2.42	611.09	0.52	0.48	15.55	11.40	LD NOZ UP3 4.5 LT BLUE						149	SPSR2-10	
250	2.42	613.51	0.53	0.48	15.60	11.40	LD NOZ UP3 4.5 LT BLUE						150	SPSR2-10	
251	2.50	616.01	0.53	0.48	15.66	11.40	LD NOZ UP3 4.5 LT BLUE						151	SPSR2-10	
252	2.42	618.43	0.53	0.48	15.72	11.40	LD NOZ UP3 4.5 LT BLUE						152	SPSR2-10	
253	2.42	620.85	0.54	0.59	15.78	11.40	LD NOZ UP3 5 BEIGE						153	SPSR2-10	
254	2.50	623.35	0.55	0.59	15.81	11.40	LD NOZ UP3 5 BEIGE						154	SPSR2-10	
255	2.50	625.85	0.53	0.48	15.81	11.40	LD NOZ UP3 4.5 LT BLUE						155	SPSR2-10	
256	2.33	628.18	0.86	0.85	15.81	11.40	LD NOZ UP3 6 GOLD						156	SPSR2-10	
TOWER 4	157.04	630.76													
257		631.08	-	-	-	-	-	-	-	-	-	-	-	-	101
258	5.48	633.66	0.87	0.85	15.80	11.40	LD NOZ UP3 6 GOLD						157	SPSR2-10	
259	2.33	635.99	0.54	0.59	15.80	11.40	LD NOZ UP3 5 BEIGE						158	SPSR2-10	
260	2.50	638.49	0.56	0.59	15.77	11.40	LD NOZ UP3 5 BEIGE						159	SPSR2-10	
261	2.50	640.99	0.55	0.59	15.70	11.40	LD NOZ UP3 5 BEIGE						160	SPSR2-10	
262	2.42	643.41	0.55	0.59	15.64	11.40	LD NOZ UP3 5 BEIGE						161	SPSR2-10	
263	2.42	645.83	0.56	0.59	15.57	11.40	LD NOZ UP3 5 BEIGE						162	SPSR2-10	
264	2.50	648.33	0.56	0.59	15.51	11.40	LD NOZ UP3 5 BEIGE						163	SPSR2-10	
265	2.42	650.75	0.55	0.59	15.45	11.40	LD NOZ UP3 5 BEIGE						164	SPSR2-10	
266	2.42	653.17	0.56	0.59	15.40	11.40	LD NOZ UP3 5 BEIGE						165	SPSR2-10	
267	2.50	655.67	0.57	0.59	15.34	11.40	LD NOZ UP3 5 BEIGE						166	SPSR2-10	
268	2.42	658.09	0.56	0.59	15.29	11.40	LD NOZ UP3 5 BEIGE						167	SPSR2-10	
269	2.42	660.51	0.57	0.59	15.24	11.40	LD NOZ UP3 5 BEIGE						168	SPSR2-10	
270	2.50	663.01	0.57	0.59	15.19	11.40	LD NOZ UP3 5 BEIGE						169	SPSR2-10	
271	2.42	665.43	0.56	0.59	15.15	11.40	LD NOZ UP3 5 BEIGE						170	SPSR2-10	
272	2.42	667.85	0.58	0.59	15.10	11.40	LD NOZ UP3 5 BEIGE						171	SPSR2-10	
273	2.50	670.35	0.59	0.59	15.06	11.40	LD NOZ UP3 5 BEIGE						172	SPSR2-10	
274	2.50	672.85	0.57	0.59	15.02	11.40	LD NOZ UP3 5 BEIGE						173	SPSR2-10	
275	2.33	675.18	0.57	0.59	14.99	11.40	LD NOZ UP3 5 BEIGE						174	SPSR2-10	
276	2.49	677.67	0.57	0.59	14.95	11.40	LD NOZ UP3 5 BEIGE						175	SPSR2-10	
277	2.33	680.00	0.58	0.59	14.92	11.40	LD NOZ UP3 5 BEIGE						176	SPSR2-10	
278	2.50	682.50	0.60	0.59	14.90	11.40	LD NOZ UP3 5 BEIGE						177	SPSR2-10	
279	2.50	685.00	0.59	0.59	14.87	11.40	LD NOZ UP3 5 BEIGE						178	SPSR2-10	
280	2.42	687.42	0.58	0.59	14.84	11.40	LD NOZ UP3 5 BEIGE						179	SPSR2-10	
281	2.42	689.84	0.59	0.59	14.82	11.40	LD NOZ UP3 5 BEIGE						180	SPSR2-10	
282	2.50	692.34	0.61	0.59	14.80	11.40	LD NOZ UP3 5 BEIGE						181	SPSR2-10	
283	2.50	694.84	0.59	0.59	14.79	11.40	LD NOZ UP3 5 BEIGE						182	SPSR2-10	
284	2.33	697.17	0.59	0.59	14.77	11.40	LD NOZ UP3 5 BEIGE						183	SPSR2-10	

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.
285	2.53	699.70	0.60	0.59	14.76	11.40	LD NOZ UP3 5 BEIGE					184	SPSR2-10	
286	2.33	702.03	0.59	0.59	14.75	11.40	LD NOZ UP3 5 BEIGE					185	SPSR2-10	
287	2.50	704.53	0.62	0.59	14.74	11.40	LD NOZ UP3 5 BEIGE					186	SPSR2-10	
288	2.50	707.03	0.61	0.59	14.74	11.40	LD NOZ UP3 5 BEIGE					187	SPSR2-10	
289	2.42	709.45	0.60	0.59	14.73	11.40	LD NOZ UP3 5 BEIGE					188	SPSR2-10	
290	2.42	711.87	0.61	0.59	14.73	11.40	LD NOZ UP3 5 BEIGE					189	SPSR2-10	
291	2.50	714.37	0.62	0.59	14.73	11.40	LD NOZ UP3 5 BEIGE					190	SPSR2-10	
292	2.42	716.79	0.61	0.59	14.74	11.40	LD NOZ UP3 5 BEIGE					191	SPSR2-10	
293	2.42	719.21	0.62	0.59	14.74	11.40	LD NOZ UP3 5 BEIGE					192	SPSR2-10	
294	2.50	721.71	0.62	0.59	14.75	11.40	LD NOZ UP3 5 BEIGE					193	SPSR2-10	
295	2.42	724.13	0.61	0.59	14.76	11.40	LD NOZ UP3 5 BEIGE					194	SPSR2-10	
296	2.42	726.55	0.63	0.59	14.78	11.40	LD NOZ UP3 5 BEIGE					195	SPSR2-10	
297	2.50	729.05	0.63	0.59	14.79	11.40	LD NOZ UP3 5 BEIGE					196	SPSR2-10	
298	2.42	731.47	0.62	0.59	14.81	11.40	LD NOZ UP3 5 BEIGE					197	SPSR2-10	
299	2.42	733.89	0.63	0.59	14.83	11.40	LD NOZ UP3 5 BEIGE					198	SPSR2-10	
300	2.50	736.39	0.65	0.59	14.85	11.40	LD NOZ UP3 5 BEIGE					199	SPSR2-10	
301	2.50	738.89	0.63	0.59	14.88	11.40	LD NOZ UP3 5 BEIGE					200	SPSR2-10	
302	2.33	741.22	0.63	0.59	14.91	11.40	LD NOZ UP3 5 BEIGE					201	SPSR2-10	
303	2.48	743.70	0.63	0.59	14.94	11.40	LD NOZ UP3 5 BEIGE					202	SPSR2-10	
304	2.33	746.03	0.63	0.59	14.97	11.40	LD NOZ UP3 5 BEIGE					203	SPSR2-10	
305	2.50	748.53	0.66	0.72	15.00	11.40	LD NOZ UP3 5.5 BEIGE					204	SPSR2-10	
306	2.50	751.03	0.65	0.59	15.04	11.40	LD NOZ UP3 5 BEIGE					205	SPSR2-10	
307	2.42	753.45	0.64	0.59	15.08	11.40	LD NOZ UP3 5 BEIGE					206	SPSR2-10	
308	2.42	755.87	0.65	0.72	15.12	11.40	LD NOZ UP3 5.5 BEIGE					207	SPSR2-10	
309	2.50	758.37	0.66	0.72	15.16	11.40	LD NOZ UP3 5.5 BEIGE					208	SPSR2-10	
310	2.42	760.79	0.65	0.59	15.21	11.40	LD NOZ UP3 5 BEIGE					209	SPSR2-10	
311	2.42	763.21	0.66	0.72	15.26	11.40	LD NOZ UP3 5.5 BEIGE					210	SPSR2-10	
312	2.50	765.71	0.66	0.72	15.31	11.40	LD NOZ UP3 5.5 BEIGE					211	SPSR2-10	
313	2.42	768.13	0.65	0.72	15.36	11.40	LD NOZ UP3 5.5 BEIGE					212	SPSR2-10	
314	2.42	770.55	0.67	0.72	15.42	11.40	LD NOZ UP3 5.5 BEIGE					213	SPSR2-10	
315	2.50	773.05	0.67	0.72	15.48	11.40	LD NOZ UP3 5.5 BEIGE					214	SPSR2-10	
316	2.42	775.47	0.66	0.72	15.54	11.40	LD NOZ UP3 5.5 BEIGE					215	SPSR2-10	
317	2.42	777.89	0.67	0.72	15.60	11.40	LD NOZ UP3 5.5 BEIGE					216	SPSR2-10	
318	2.50	780.39	0.68	0.72	15.63	11.40	LD NOZ UP3 5.5 BEIGE					217	SPSR2-10	
319	2.50	782.89	0.66	0.72	15.63	11.40	LD NOZ UP3 5.5 BEIGE					218	SPSR2-10	
320	2.33	785.22	1.08	1.00	15.63	11.40	LD NOZ UP3 6.5 GOLD					219	SPSR2-10	
TOWER 5	157.04	787.80												
321		788.12	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	102
322	5.48	790.70	1.08	1.00	15.62	11.40	LD NOZ UP3 6.5 GOLD					220	SPSR2-10	
323	2.33	793.03	0.67	0.72	15.62	11.40	LD NOZ UP3 5.5 BEIGE					221	SPSR2-10	
324	2.50	795.53	0.70	0.72	15.60	11.40	LD NOZ UP3 5.5 BEIGE					222	SPSR2-10	
325	2.50	798.03	0.69	0.72	15.53	11.40	LD NOZ UP3 5.5 BEIGE					223	SPSR2-10	
326	2.42	800.45	0.68	0.72	15.47	11.40	LD NOZ UP3 5.5 BEIGE					224	SPSR2-10	
327	2.42	802.87	0.69	0.72	15.40	11.40	LD NOZ UP3 5.5 BEIGE					225	SPSR2-10	
328	2.50	805.37	0.69	0.72	15.34	11.40	LD NOZ UP3 5.5 BEIGE					226	SPSR2-10	
329	2.42	807.79	0.68	0.72	15.28	11.40	LD NOZ UP3 5.5 BEIGE					227	SPSR2-10	
330	2.42	810.21	0.70	0.72	15.23	11.40	LD NOZ UP3 5.5 BEIGE					228	SPSR2-10	
331	2.50	812.71	0.70	0.72	15.17	11.40	LD NOZ UP3 5.5 BEIGE					229	SPSR2-10	

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.
332	2.42	815.13	0.69	0.72	15.12	11.40	LD NOZ	UP3	5.5	BEIGE	230	SPSR2-10	
333	2.42	817.55	0.70	0.72	15.07	11.40	LD NOZ	UP3	5.5	BEIGE	231	SPSR2-10	
334	2.50	820.05	0.71	0.72	15.03	11.40	LD NOZ	UP3	5.5	BEIGE	232	SPSR2-10	
335	2.42	822.47	0.70	0.72	14.98	11.40	LD NOZ	UP3	5.5	BEIGE	233	SPSR2-10	
336	2.42	824.89	0.71	0.72	14.94	11.40	LD NOZ	UP3	5.5	BEIGE	234	SPSR2-10	
337	2.50	827.39	0.72	0.72	14.90	11.40	LD NOZ	UP3	5.5	BEIGE	235	SPSR2-10	
338	2.50	829.89	0.70	0.72	14.86	11.40	LD NOZ	UP3	5.5	BEIGE	236	SPSR2-10	
339	2.33	832.22	0.70	0.72	14.83	11.40	LD NOZ	UP3	5.5	BEIGE	237	SPSR2-10	
340	2.49	834.71	0.70	0.72	14.80	11.40	LD NOZ	UP3	5.5	BEIGE	238	SPSR2-10	
341	2.33	837.04	0.71	0.72	14.77	11.40	LD NOZ	UP3	5.5	BEIGE	239	SPSR2-10	
342	2.50	839.54	0.73	0.72	14.74	11.40	LD NOZ	UP3	5.5	BEIGE	240	SPSR2-10	
343	2.50	842.04	0.73	0.72	14.71	11.40	LD NOZ	UP3	5.5	BEIGE	241	SPSR2-10	
344	2.42	844.46	0.72	0.72	14.69	11.40	LD NOZ	UP3	5.5	BEIGE	242	SPSR2-10	
345	2.42	846.88	0.73	0.72	14.67	11.40	LD NOZ	UP3	5.5	BEIGE	243	SPSR2-10	
346	2.50	849.38	0.74	0.72	14.65	11.40	LD NOZ	UP3	5.5	BEIGE	244	SPSR2-10	
347	2.50	851.88	0.72	0.72	14.63	11.40	LD NOZ	UP3	5.5	BEIGE	245	SPSR2-10	
348	2.33	854.21	0.73	0.72	14.62	11.40	LD NOZ	UP3	5.5	BEIGE	246	SPSR2-10	
349	2.53	856.74	0.73	0.72	14.61	11.40	LD NOZ	UP3	5.5	BEIGE	247	SPSR2-10	
350	2.33	859.07	0.73	0.72	14.60	11.40	LD NOZ	UP3	5.5	BEIGE	248	SPSR2-10	
351	2.50	861.57	0.75	0.72	14.59	11.40	LD NOZ	UP3	5.5	BEIGE	249	SPSR2-10	
352	2.50	864.07	0.74	0.72	14.59	11.40	LD NOZ	UP3	5.5	BEIGE	250	SPSR2-10	
353	2.42	866.49	0.73	0.72	14.59	11.40	LD NOZ	UP3	5.5	BEIGE	251	SPSR2-10	
354	2.42	868.91	0.75	0.72	14.59	11.40	LD NOZ	UP3	5.5	BEIGE	252	SPSR2-10	
355	2.50	871.41	0.75	0.72	14.59	11.40	LD NOZ	UP3	5.5	BEIGE	253	SPSR2-10	
356	2.42	873.83	0.74	0.72	14.59	11.40	LD NOZ	UP3	5.5	BEIGE	254	SPSR2-10	
357	2.42	876.25	0.76	0.72	14.60	11.40	LD NOZ	UP3	5.5	BEIGE	255	SPSR2-10	
358	2.50	878.75	0.76	0.72	14.61	11.40	LD NOZ	UP3	5.5	BEIGE	256	SPSR2-10	
359	2.42	881.17	0.75	0.72	14.62	11.40	LD NOZ	UP3	5.5	BEIGE	257	SPSR2-10	
360	2.42	883.59	0.76	0.72	14.64	11.40	LD NOZ	UP3	5.5	BEIGE	258	SPSR2-10	
361	2.50	886.09	0.77	0.72	14.65	11.40	LD NOZ	UP3	5.5	BEIGE	259	SPSR2-10	
362	2.42	888.51	0.76	0.72	14.67	11.40	LD NOZ	UP3	5.5	BEIGE	260	SPSR2-10	
363	2.42	890.93	0.77	0.72	14.69	11.40	LD NOZ	UP3	5.5	BEIGE	261	SPSR2-10	
364	2.50	893.43	0.78	0.85	14.72	11.40	LD NOZ	UP3	6	GOLD	262	SPSR2-10	
365	2.50	895.93	0.76	0.72	14.75	11.40	LD NOZ	UP3	5.5	BEIGE	263	SPSR2-10	
366	2.33	898.26	0.76	0.72	14.77	11.40	LD NOZ	UP3	5.5	BEIGE	264	SPSR2-10	
367	2.48	900.74	0.76	0.72	14.80	11.40	LD NOZ	UP3	5.5	BEIGE	265	SPSR2-10	
368	2.33	903.07	0.77	0.72	14.84	11.40	LD NOZ	UP3	5.5	BEIGE	266	SPSR2-10	
369	2.50	905.57	0.80	0.85	14.87	11.40	LD NOZ	UP3	6	GOLD	267	SPSR2-10	
370	2.50	908.07	0.79	0.85	14.91	11.40	LD NOZ	UP3	6	GOLD	268	SPSR2-10	
371	2.42	910.49	0.77	0.72	14.95	11.40	LD NOZ	UP3	5.5	BEIGE	269	SPSR2-10	
372	2.42	912.91	0.79	0.85	14.99	11.40	LD NOZ	UP3	6	GOLD	270	SPSR2-10	
373	2.50	915.41	0.79	0.85	15.04	11.40	LD NOZ	UP3	6	GOLD	271	SPSR2-10	
374	2.42	917.83	0.78	0.72	15.09	11.40	LD NOZ	UP3	5.5	BEIGE	272	SPSR2-10	
375	2.42	920.25	0.80	0.85	15.13	11.40	LD NOZ	UP3	6	GOLD	273	SPSR2-10	
376	2.50	922.75	0.80	0.85	15.19	11.40	LD NOZ	UP3	6	GOLD	274	SPSR2-10	
377	2.42	925.17	0.79	0.85	15.24	11.40	LD NOZ	UP3	6	GOLD	275	SPSR2-10	
378	2.42	927.59	0.80	0.85	15.30	11.40	LD NOZ	UP3	6	GOLD	276	SPSR2-10	
379	2.50	930.09	0.80	0.85	15.36	11.40	LD NOZ	UP3	6	GOLD	277	SPSR2-10	

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.
380	2.42	932.51	0.79	0.85	15.42	11.40	LD NOZ	UP3	6	GOLD	278	SPSR2-10	
381	2.42	934.93	0.81	0.85	15.48	11.40	LD NOZ	UP3	6	GOLD	279	SPSR2-10	
382	2.50	937.43	0.82	0.85	15.51	11.40	LD NOZ	UP3	6	GOLD	280	SPSR2-10	
383	2.50	939.93	0.80	0.85	15.51	11.40	LD NOZ	UP3	6	GOLD	281	SPSR2-10	
384	2.33	942.26	1.29	1.35	15.51	11.40	LD NOZ	UP3	7.5	LIME	282	SPSR2-10	
TOWER 6	157.04	944.84											
385		945.16	-	-	-	-	-	-	-	-	-	-	103
386	5.48	947.74	1.29	1.35	15.51	11.40	LD NOZ	UP3	7.5	LIME	283	SPSR2-10	
387	2.33	950.07	0.80	0.85	15.51	11.40	LD NOZ	UP3	6	GOLD	284	SPSR2-10	
388	2.50	952.57	0.83	0.85	15.49	11.40	LD NOZ	UP3	6	GOLD	285	SPSR2-10	
389	2.50	955.07	0.82	0.85	15.42	11.40	LD NOZ	UP3	6	GOLD	286	SPSR2-10	
390	2.42	957.49	0.81	0.85	15.36	11.40	LD NOZ	UP3	6	GOLD	287	SPSR2-10	
391	2.42	959.91	0.83	0.85	15.29	11.40	LD NOZ	UP3	6	GOLD	288	SPSR2-10	
392	2.50	962.41	0.83	0.85	15.23	11.40	LD NOZ	UP3	6	GOLD	289	SPSR2-10	
393	2.42	964.83	0.82	0.85	15.18	11.40	LD NOZ	UP3	6	GOLD	290	SPSR2-10	
394	2.42	967.25	0.83	0.85	15.12	11.40	LD NOZ	UP3	6	GOLD	291	SPSR2-10	
395	2.50	969.75	0.83	0.85	15.07	11.40	LD NOZ	UP3	6	GOLD	292	SPSR2-10	
396	2.42	972.17	0.82	0.85	15.02	11.40	LD NOZ	UP3	6	GOLD	293	SPSR2-10	
397	2.42	974.59	0.84	0.85	14.97	11.40	LD NOZ	UP3	6	GOLD	294	SPSR2-10	
398	2.50	977.09	0.84	0.85	14.92	11.40	LD NOZ	UP3	6	GOLD	295	SPSR2-10	
399	2.42	979.51	0.83	0.85	14.88	11.40	LD NOZ	UP3	6	GOLD	296	SPSR2-10	
400	2.42	981.93	0.84	0.85	14.84	11.40	LD NOZ	UP3	6	GOLD	297	SPSR2-10	
401	2.50	984.43	0.86	0.85	14.80	11.40	LD NOZ	UP3	6	GOLD	298	SPSR2-10	
402	2.50	986.93	0.83	0.85	14.76	11.40	LD NOZ	UP3	6	GOLD	299	SPSR2-10	
403	2.33	989.26	0.83	0.85	14.73	11.40	LD NOZ	UP3	6	GOLD	300	SPSR2-10	
404	2.49	991.75	0.83	0.85	14.70	11.40	LD NOZ	UP3	6	GOLD	301	SPSR2-10	
405	2.33	994.08	0.84	0.85	14.67	11.40	LD NOZ	UP3	6	GOLD	302	SPSR2-10	
406	2.50	996.58	0.87	0.85	14.64	11.40	LD NOZ	UP3	6	GOLD	303	SPSR2-10	
407	2.50	999.08	0.86	0.85	14.62	11.40	LD NOZ	UP3	6	GOLD	304	SPSR2-10	
408	2.42	1001.50	0.84	0.85	14.60	11.40	LD NOZ	UP3	6	GOLD	305	SPSR2-10	
409	2.42	1003.92	0.86	0.85	14.58	11.40	LD NOZ	UP3	6	GOLD	306	SPSR2-10	
410	2.50	1006.42	0.88	0.85	14.56	11.40	LD NOZ	UP3	6	GOLD	307	SPSR2-10	
411	2.50	1008.92	0.85	0.85	14.54	11.40	LD NOZ	UP3	6	GOLD	308	SPSR2-10	
412	2.33	1011.25	0.86	0.85	14.53	11.40	LD NOZ	UP3	6	GOLD	309	SPSR2-10	
413	2.53	1013.78	0.86	0.85	14.52	11.40	LD NOZ	UP3	6	GOLD	310	SPSR2-10	
414	2.33	1016.11	0.86	0.85	14.51	11.40	LD NOZ	UP3	6	GOLD	311	SPSR2-10	
415	2.50	1018.61	0.89	0.85	14.51	11.40	LD NOZ	UP3	6	GOLD	312	SPSR2-10	
416	2.50	1021.11	0.88	0.85	14.50	11.40	LD NOZ	UP3	6	GOLD	313	SPSR2-10	
417	2.42	1023.53	0.86	0.85	14.50	11.40	LD NOZ	UP3	6	GOLD	314	SPSR2-10	
418	2.42	1025.95	0.88	0.85	14.50	11.40	LD NOZ	UP3	6	GOLD	315	SPSR2-10	
419	2.50	1028.45	0.88	0.85	14.51	11.40	LD NOZ	UP3	6	GOLD	316	SPSR2-10	
420	2.42	1030.87	0.87	0.85	14.51	11.40	LD NOZ	UP3	6	GOLD	317	SPSR2-10	
421	2.42	1033.29	0.89	0.85	14.52	11.40	LD NOZ	UP3	6	GOLD	318	SPSR2-10	
422	2.50	1035.79	0.89	0.85	14.53	11.40	LD NOZ	UP3	6	GOLD	319	SPSR2-10	
423	2.42	1038.21	0.88	0.85	14.54	11.40	LD NOZ	UP3	6	GOLD	320	SPSR2-10	
424	2.42	1040.63	0.89	0.85	14.56	11.40	LD NOZ	UP3	6	GOLD	321	SPSR2-10	
425	2.50	1043.13	0.90	0.85	14.58	11.40	LD NOZ	UP3	6	GOLD	322	SPSR2-10	
426	2.42	1045.55	0.88	0.85	14.60	11.40	LD NOZ	UP3	6	GOLD	323	SPSR2-10	

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.
427	2.42	1047.97	0.90	0.85	14.62	11.40	LD NOZ UP3 6	GOLD					324	SPSR2-10	
428	2.50	1050.47	0.92	0.85	14.64	11.40	LD NOZ UP3 6	GOLD					325	SPSR2-10	
429	2.50	1052.97	0.89	0.85	14.67	11.40	LD NOZ UP3 6	GOLD					326	SPSR2-10	
430	2.33	1055.30	0.89	0.85	14.70	11.40	LD NOZ UP3 6	GOLD					327	SPSR2-10	
431	2.48	1057.78	0.89	0.85	14.73	11.40	LD NOZ UP3 6	GOLD					328	SPSR2-10	
432	2.33	1060.11	0.90	0.85	14.77	11.40	LD NOZ UP3 6	GOLD					329	SPSR2-10	
433	2.50	1062.61	0.93	1.00	14.80	11.40	LD NOZ UP3 6.5	GOLD					330	SPSR2-10	
434	2.50	1065.11	0.92	0.85	14.84	11.40	LD NOZ UP3 6	GOLD					331	SPSR2-10	
435	2.42	1067.53	0.91	0.85	14.88	11.40	LD NOZ UP3 6	GOLD					332	SPSR2-10	
436	2.42	1069.95	0.92	0.85	14.93	11.40	LD NOZ UP3 6	GOLD					333	SPSR2-10	
437	2.50	1072.45	0.93	0.85	14.97	11.40	LD NOZ UP3 6	GOLD					334	SPSR2-10	
438	2.42	1074.87	0.91	0.85	15.02	11.40	LD NOZ UP3 6	GOLD					335	SPSR2-10	
439	2.42	1077.29	0.93	1.00	15.07	11.40	LD NOZ UP3 6.5	GOLD					336	SPSR2-10	
440	2.50	1079.79	0.93	1.00	15.12	11.40	LD NOZ UP3 6.5	GOLD					337	SPSR2-10	
441	2.42	1082.21	0.92	0.85	15.18	11.40	LD NOZ UP3 6	GOLD					338	SPSR2-10	
442	2.42	1084.63	0.94	1.00	15.24	11.40	LD NOZ UP3 6.5	GOLD					339	SPSR2-10	
443	2.50	1087.13	0.94	1.00	15.30	11.40	LD NOZ UP3 6.5	GOLD					340	SPSR2-10	
444	2.42	1089.55	0.93	0.85	15.36	11.40	LD NOZ UP3 6	GOLD					341	SPSR2-10	
445	2.42	1091.97	0.94	1.00	15.42	11.40	LD NOZ UP3 6.5	GOLD					342	SPSR2-10	
446	2.50	1094.47	0.96	1.00	15.46	11.40	LD NOZ UP3 6.5	GOLD					343	SPSR2-10	
447	2.50	1096.97	0.93	1.00	15.46	11.40	LD NOZ UP3 6.5	GOLD					344	SPSR2-10	
448	2.33	1099.30	1.51	1.53	15.45	11.40	LD NOZ UP3 8	LAVENDER					345	SPSR2-10	
TOWER 7	157.04	1101.88													
449		1102.20	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	104
450	5.48	1104.78	1.51	1.53	15.45	11.40	LD NOZ UP3 8	LAVENDER					346	SPSR2-10	
451	2.33	1107.11	0.94	1.00	15.45	11.40	LD NOZ UP3 6.5	GOLD					347	SPSR2-10	
452	2.50	1109.61	0.97	1.00	15.43	11.40	LD NOZ UP3 6.5	GOLD					348	SPSR2-10	
453	2.50	1112.11	0.96	1.00	15.37	11.40	LD NOZ UP3 6.5	GOLD					349	SPSR2-10	
454	2.42	1114.53	0.94	1.00	15.30	11.40	LD NOZ UP3 6.5	GOLD					350	SPSR2-10	
455	2.42	1116.95	0.96	1.00	15.24	11.40	LD NOZ UP3 6.5	GOLD					351	SPSR2-10	
456	2.50	1119.45	0.96	1.00	15.18	11.40	LD NOZ UP3 6.5	GOLD					352	SPSR2-10	
457	2.42	1121.87	0.95	1.00	15.13	11.40	LD NOZ UP3 6.5	GOLD					353	SPSR2-10	
458	2.42	1124.29	0.96	1.00	15.07	11.40	LD NOZ UP3 6.5	GOLD					354	SPSR2-10	
459	2.50	1126.79	0.97	1.00	15.02	11.40	LD NOZ UP3 6.5	GOLD					355	SPSR2-10	
460	2.42	1129.21	0.95	1.00	14.97	11.40	LD NOZ UP3 6.5	GOLD					356	SPSR2-10	
461	2.42	1131.63	0.97	1.00	14.92	11.40	LD NOZ UP3 6.5	GOLD					357	SPSR2-10	
462	2.50	1134.13	0.97	1.00	14.88	11.40	LD NOZ UP3 6.5	GOLD					358	SPSR2-10	
463	2.42	1136.55	0.96	1.00	14.84	11.40	LD NOZ UP3 6.5	GOLD					359	SPSR2-10	
464	2.42	1138.97	0.97	1.00	14.80	11.40	LD NOZ UP3 6.5	GOLD					360	SPSR2-10	
465	2.50	1141.47	0.99	1.00	14.76	11.40	LD NOZ UP3 6.5	GOLD					361	SPSR2-10	
466	2.50	1143.97	0.96	1.00	14.72	11.40	LD NOZ UP3 6.5	GOLD					362	SPSR2-10	
467	2.33	1146.30	0.96	1.00	14.69	11.40	LD NOZ UP3 6.5	GOLD					363	SPSR2-10	
468	2.49	1148.79	0.96	1.00	14.66	11.40	LD NOZ UP3 6.5	GOLD					364	SPSR2-10	
469	2.33	1151.12	0.96	1.00	14.63	11.40	LD NOZ UP3 6.5	GOLD					365	SPSR2-10	
470	2.50	1153.62	1.00	1.00	14.60	11.40	LD NOZ UP3 6.5	GOLD					366	SPSR2-10	
471	2.50	1156.12	0.98	1.00	14.58	11.40	LD NOZ UP3 6.5	GOLD					367	SPSR2-10	
472	2.42	1158.54	0.97	1.00	14.56	11.40	LD NOZ UP3 6.5	GOLD					368	SPSR2-10	
473	2.42	1160.96	0.99	1.00	14.54	11.40	LD NOZ UP3 6.5	GOLD					369	SPSR2-10	

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.
474	2.50	1163.46	1.01	1.00	14.52	11.40	LD NOZ UP3	6.5	GOLD		370	SPSR2-10	
475	2.50	1165.96	0.97	1.00	14.51	11.40	LD NOZ UP3	6.5	GOLD		371	SPSR2-10	
476	2.33	1168.29	0.98	1.00	14.50	11.40	LD NOZ UP3	6.5	GOLD		372	SPSR2-10	
477	2.53	1170.82	0.98	1.00	14.49	11.40	LD NOZ UP3	6.5	GOLD		373	SPSR2-10	
478	2.33	1173.15	0.98	1.00	14.48	11.40	LD NOZ UP3	6.5	GOLD		374	SPSR2-10	
479	2.50	1175.65	1.01	1.00	14.47	11.40	LD NOZ UP3	6.5	GOLD		375	SPSR2-10	
480	2.50	1178.15	1.00	1.00	14.47	11.40	LD NOZ UP3	6.5	GOLD		376	SPSR2-10	
481	2.42	1180.57	0.99	1.00	14.47	11.40	LD NOZ UP3	6.5	GOLD		377	SPSR2-10	
482	2.42	1182.99	1.00	1.00	14.47	11.40	LD NOZ UP3	6.5	GOLD		378	SPSR2-10	
483	2.50	1185.49	1.01	1.00	14.48	11.40	LD NOZ UP3	6.5	GOLD		379	SPSR2-10	
484	2.42	1187.91	0.99	1.00	14.48	11.40	LD NOZ UP3	6.5	GOLD		380	SPSR2-10	
485	2.42	1190.33	1.01	1.00	14.49	11.40	LD NOZ UP3	6.5	GOLD		381	SPSR2-10	
486	2.50	1192.83	1.01	1.00	14.50	11.40	LD NOZ UP3	6.5	GOLD		382	SPSR2-10	
487	2.42	1195.25	1.00	1.00	14.52	11.40	LD NOZ UP3	6.5	GOLD		383	SPSR2-10	
488	2.42	1197.67	1.02	1.00	14.53	11.40	LD NOZ UP3	6.5	GOLD		384	SPSR2-10	
489	2.50	1200.17	1.02	1.00	14.55	11.40	LD NOZ UP3	6.5	GOLD		385	SPSR2-10	
490	2.42	1202.59	1.00	1.00	14.57	11.40	LD NOZ UP3	6.5	GOLD		386	SPSR2-10	
491	2.42	1205.01	1.02	1.00	14.59	11.40	LD NOZ UP3	6.5	GOLD		387	SPSR2-10	
492	2.50	1207.51	1.04	1.00	14.62	11.40	LD NOZ UP3	6.5	GOLD		388	SPSR2-10	
493	2.50	1210.01	1.01	1.00	14.65	11.40	LD NOZ UP3	6.5	GOLD		389	SPSR2-10	
494	2.33	1212.34	1.01	1.00	14.68	11.40	LD NOZ UP3	6.5	GOLD		390	SPSR2-10	
495	2.48	1214.82	1.01	1.00	14.71	11.40	LD NOZ UP3	6.5	GOLD		391	SPSR2-10	
496	2.33	1217.15	1.02	1.00	14.74	11.40	LD NOZ UP3	6.5	GOLD		392	SPSR2-10	
497	2.50	1219.65	1.06	1.00	14.78	11.40	LD NOZ UP3	6.5	GOLD		393	SPSR2-10	
498	2.50	1222.15	1.04	1.00	14.82	11.40	LD NOZ UP3	6.5	GOLD		394	SPSR2-10	
499	2.42	1224.57	1.03	1.00	14.86	11.40	LD NOZ UP3	6.5	GOLD		395	SPSR2-10	
500	2.42	1226.99	1.05	1.00	14.90	11.40	LD NOZ UP3	6.5	GOLD		396	SPSR2-10	
501	2.50	1229.49	1.05	1.00	14.95	11.40	LD NOZ UP3	6.5	GOLD		397	SPSR2-10	
502	2.42	1231.91	1.04	1.00	15.00	11.40	LD NOZ UP3	6.5	GOLD		398	SPSR2-10	
503	2.42	1234.33	1.06	1.00	15.05	11.40	LD NOZ UP3	6.5	GOLD		399	SPSR2-10	
504	2.50	1236.83	1.06	1.00	15.11	11.40	LD NOZ UP3	6.5	GOLD		400	SPSR2-10	
505	2.42	1239.25	1.05	1.00	15.16	11.40	LD NOZ UP3	6.5	GOLD		401	SPSR2-10	
506	2.42	1241.67	1.07	1.00	15.22	11.40	LD NOZ UP3	6.5	GOLD		402	SPSR2-10	
507	2.50	1244.17	1.08	1.00	15.28	11.40	LD NOZ UP3	6.5	GOLD		403	SPSR2-10	
508	2.42	1246.59	1.07	1.00	15.34	11.40	LD NOZ UP3	6.5	GOLD		404	SPSR2-10	
509	2.42	1249.01	1.09	1.16	15.41	11.40	LD NOZ UP3	7	LIME		405	SPSR2-10	
510	2.50	1251.51	1.11	1.16	15.44	11.40	LD NOZ UP3	7	LIME		406	SPSR2-10	
511	2.50	1254.01	1.07	1.00	15.44	11.40	LD NOZ UP3	6.5	GOLD		407	SPSR2-10	
512	2.33	1256.34	1.56	1.53	15.44	11.40	LD NOZ UP3	8	LAVENDER		408	SPSR2-10	
TOWER 8													
	157.04	1258.92	PIPE ID CHANGES FROM 6.395 TO 5.369										
513	4.70	1261.04	1.57	1.53	15.44	11.40	LD NOZ UP3	8	LAVENDER		409	SPSR2-10	
514	2.33	1263.37	1.08	1.16	15.44	11.40	LD NOZ UP3	7	LIME		410	SPSR2-10	
515	2.50	1265.87	1.12	1.16	15.44	11.40	LD NOZ UP3	7	LIME		411	SPSR2-10	
516	2.50	1268.37	1.10	1.16	15.44	11.40	LD NOZ UP3	7	LIME		412	SPSR2-10	
517	2.42	1270.79	1.08	1.00	15.44	11.40	LD NOZ UP3	6.5	GOLD		413	SPSR2-10	
518	2.42	1273.21	1.10	1.16	15.44	11.40	LD NOZ UP3	7	LIME		414	SPSR2-10	
519	2.50	1275.71	1.12	1.16	15.44	11.40	LD NOZ UP3	7	LIME		415	SPSR2-10	

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.
520	2.50	1278.21	1.07	1.00	15.44	11.40	LD NOZ UP3 6.5 GOLD	416	SPSR2-10	
521	2.33	1280.54	1.09	1.16	15.44	11.40	LD NOZ UP3 7 LIME	417	SPSR2-10	
522	2.50	1283.04	1.11	1.16	15.44	11.40	LD NOZ UP3 7 LIME	418	SPSR2-10	
523	2.50	1285.54	1.10	1.16	15.44	11.40	LD NOZ UP3 7 LIME	419	SPSR2-10	
524	2.50	1288.04	1.08	1.00	15.44	11.40	LD NOZ UP3 6.5 GOLD	420	SPSR2-10	
525	2.50	1290.54	1.09	1.16	15.44	11.40	LD NOZ UP3 7 LIME	421	SPSR2-10	
526	2.25	1292.79	1.11	1.16	15.44	11.40	LD NOZ UP3 7 LIME	422	SPSR2-10	
OVERHANG	33.87	1292.79								

TOTAL GPM = 300.24

GPA = 2.49

MINIMUM RECOMMENDED REGULATOR INLET PRESSURE IS 15.00 PSI

WITH GRADUATED ELEVATION OF 10.00 FT THE INLET PRESSURE IS 15.41 PSI FOR SPRINKLER 422

THIS POSITION IS THE CLOSEST TO THE MINIMUM RECOMMENDED INLET PRESSURE

#### HYDRAULICS SUMMARY

TOWER NUMBER	ACRES UNDER SPAN	GPM NEED	ACTUAL GPM	PERCENT DEVIATION	GPM PER ACRE	AVERAGE	AVERAGE IN. DELIVERED		
						IN. PER HR DELIVERED UNDER SPAN	FOR REVOLUTION TIME		
							36 HR	48 HR	60 HR
1	1.84	4.57	10.83	137%	5.89	0.013	0.47	0.62	0.78
2	5.39	13.43	13.55	1%	2.51	0.006	0.20	0.27	0.33
3	8.95	22.28	21.47	-4%	2.40	0.005	0.19	0.25	0.32
4	12.51	31.13	30.27	-3%	2.42	0.005	0.19	0.26	0.32
5	16.07	39.99	39.21	-2%	2.44	0.005	0.19	0.26	0.32
6	19.62	48.84	47.92	-2%	2.44	0.005	0.19	0.26	0.32
7	23.18	57.69	56.17	-3%	2.42	0.005	0.19	0.26	0.32
8	26.74	66.55	64.72	-3%	2.42	0.005	0.19	0.26	0.32
OVERHANG	6.23	15.51	16.10	4%	2.58	0.006	0.21	0.27	0.34
TOTAL	120.54	300.00	300.24		2.49				

**SUMMARY OF SPRINKLERS**

55 LD NOZ UP3 4 LT BLUE  
64 LD NOZ UP3 4.5 LT BLUE  
66 LD NOZ UP3 5 BEIGE  
75 LD NOZ UP3 5.5 BEIGE  
72 LD NOZ UP3 6 GOLD  
72 LD NOZ UP3 6.5 GOLD  
12 LD NOZ UP3 7 LIME  
2 LD NOZ UP3 7.5 LIME  
4 LD NOZ UP3 8 LAVENDER

**104 PLUGS**

**SUMMARY OF REGULATORS**

422 Senn PSR2 10 psi

**TOTAL OF 422 REGULATORS**



## NOZZLE POSITION CHART

LD NOZ UP3 4 LT BLUE	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 95, 96, 97, 98, 99, 100,101,104
LD NOZ UP3 4.5 LT BLUE	48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 102,103,105,106,107,108,109,110,111,112,113,114, 115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135,136,137,138,139, 140,141,142,143,144,145,146,147,148,149,150,151,152,155
LD NOZ UP3 5 BEIGE	61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 153,154,158,159,160,161,162,163,164,165, 166,167,168,169,170,171,172,173,174,175,176,177,178,179,180,181,182,183,184,185,186,187,188,189,190, 191,192,193,194,195,196,197,198,199,200,201,202,203,205,206,209
LD NOZ UP3 5.5 BEIGE	76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 94, 204,207,208,210,211,212,213,214,215, 216,217,218,221,222,223,224,225,226,227,228,229,230,231,232,233,234,235,236,237,238,239,240,241,242, 243,244,245,246,247,248,249,250,251,252,253,254,255,256,257,258,259,260,261,263,264,265,266,269,272
LD NOZ UP3 6 GOLD	91, 92, 93, 156,157,262,267,268,270,271,273,274,275,276,277,278,279,280,281,284,285,286,287,288,289, 290,291,292,293,294,295,296,297,298,299,300,301,302,303,304,305,306,307,308,309,310,311,312,313,314, 315,316,317,318,319,320,321,322,323,324,325,326,327,328,329,331,332,333,334,335,338,341
LD NOZ UP3 6.5 GOLD	219,220,330,336,337,339,340,342,343,344,347,348,349,350,351,352,353,354,355,356,357,358,359,360,361, 362,363,364,365,366,367,368,369,370,371,372,373,374,375,376,377,378,379,380,381,382,383,384,385,386, 387,388,389,390,391,392,393,394,395,396,397,398,399,400,401,402,403,404,407,413,416,420
LD NOZ UP3 7 LIME	405,406,410,411,412,414,415,417,418,419,421,422
LD NOZ UP3 7.5 LIME	282,283
LD NOZ UP3 8 LAVENDER	345,346,408,409

SUPERIOR IRRIGATION  
115 EAST CENTRAL AVENUE  
WIGGINS, COLORADO 80654

MAY 02, 2024  
WISH-113830  
MITCH ROGERS  
WIGGINS ROAD K  
300 GPM @ 17 PSI

LINDSAY GEN II - 30  
SENNINGER UP3 LDN SPRAY NOZZLES  
SENNINGER 10 PSI REGULATORS  
.75 I.D. FLEXIBLE HOSE  
HEAD

Rotation time at 100% = 13.59 Hours Or 815 minutes

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				61	PLUG				56					51	PLUG				46			138	4.5	PSR210	
2	PLUG				62					57	PLUG		4.5	PSR210	52					47			139	4.5	PSR210	
3	PLUG				63	PLUG	28	4	PSR210	58		58	4.5	PSR210	53	PLUG	87	5.5	PSR210	48			140	4.5	PSR210	
4	PLUG				64		29	4	PSR210	59	PLUG				54		88	5.5	PSR210	49			141	4.5	PSR210	
5	PLUG				TOWER 1					60		59	4.5	PSR210	55	PLUG				50			142	4.5	PSR210	
6	PLUG					1	PLUG			61	PLUG				56		89	5.5	PSR210	51			143	4.5	PSR210	
7	PLUG	1	4	PSR210		2		30	4	PSR210	62		60	4.5	PSR210	57	PLUG			52			144	4.5	PSR210	
8						3	PLUG			63	PLUG				58		90	5.5	PSR210	53			145	4.5	PSR210	
9	PLUG				4		31	4	PSR210	64		61	5	PSR210	59	PLUG				54			146	4.5	PSR210	
10		2	4	PSR210	5	PLUG				TOWER 2					60		91	6	PSR210	55			147	4.5	PSR210	
11	PLUG				6		32	4	PSR210		1	PLUG			61	PLUG				56			148	4.5	PSR210	
12		3	4	PSR210	7	PLUG					2		62	5	PSR210	62		92	6	PSR210	57			149	4.5	PSR210
13	PLUG				8		33	4	PSR210		3	PLUG			63	PLUG				58			150	4.5	PSR210	
14		4	4	PSR210	9	PLUG				4		63	5	PSR210	64	TOWER 3		6	PSR210	59			151	4.5	PSR210	
15	PLUG				10		34	4	PSR210	5	PLUG			64			1			60			152	4.5	PSR210	
16		5	4	PSR210	11	PLUG				6		64	5	PSR210	1		PLUG			61			153	5	PSR210	
17	PLUG				12		35	4	PSR210	7	PLUG			65			2		94	5.5	PSR210	62			154	5
18		6	4	PSR210	13	PLUG				8		65	5	PSR210	3		95	4	PSR210	63			155	4.5	PSR210	
19	PLUG				14		36	4	PSR210	9	PLUG			66		4		96	4	PSR210	64	TOWER 4		156	6	PSR210
20		7	4	PSR210	15	PLUG				10		66	5	PSR210	5		97	4	PSR210							
21	PLUG				16		37	4	PSR210	11	PLUG			67		6		98	4	PSR210	1					
22		8	4	PSR210	17	PLUG				12		67	5	PSR210	7		99	4	PSR210	2			157	6	PSR210	
23	PLUG				18		38	4	PSR210	13	PLUG			68		8		100	4	PSR210	3			158	5	PSR210
24		9	4	PSR210	19	PLUG				14		68	5	PSR210	9		101	4	PSR210	4			159	5	PSR210	
25	PLUG				20		39	4	PSR210	15	PLUG			69		10		102	4.5	PSR210	5			160	5	PSR210
26		10	4	PSR210	21	PLUG				16		69	5	PSR210	11		103	4.5	PSR210	6			161	5	PSR210	
27	PLUG				22		40	4	PSR210	17	PLUG			70		12		104	4	PSR210	7			162	5	PSR210
28		11	4	PSR210	23	PLUG				18		70	5	PSR210	13		105	4.5	PSR210	8			163	5	PSR210	
29	PLUG				24		41	4	PSR210	19	PLUG			71		14		106	4.5	PSR210	9			164	5	PSR210
30		12	4	PSR210	25	PLUG				20		71	5	PSR210	15		107	4.5	PSR210	10			165	5	PSR210	
31	PLUG				26		42	4	PSR210	21	PLUG			72		16		108	4.5	PSR210	11			166	5	PSR210
32		13	4	PSR210	27	PLUG				22		72	5	PSR210	17		109	4.5	PSR210	12			167	5	PSR210	
33	PLUG				28		43	4	PSR210	23	PLUG			73		18		110	4.5	PSR210	13			168	5	PSR210
34		14	4	PSR210	29	PLUG				24		73	5	PSR210	19		111	4.5	PSR210	14			169	5	PSR210	
35	PLUG				30		44	4	PSR210	25	PLUG			74		20		112	4.5	PSR210	15			170	5	PSR210
36		15	4	PSR210	31	PLUG				26		74	5	PSR210	21		113	4.5	PSR210	16			171	5	PSR210	
37	PLUG				32		45	4	PSR210	27	PLUG			75		22		114	4.5	PSR210	17			172	5	PSR210
38		16	4	PSR210	33	PLUG				28		75	5	PSR210	23		115	4.5	PSR210	18			173	5	PSR210	
39	PLUG				34		46	4	PSR210	29	PLUG			76		24		116	4.5	PSR210	19			174	5	PSR210
40		17	4	PSR210	35	PLUG				30		76	5.5	PSR210	25		117	4.5	PSR210	20			175	5	PSR210	
41	PLUG				36		47	4	PSR210	31	PLUG			77		26		118	4.5	PSR210	21			176	5	PSR210
42		18	4	PSR210	37	PLUG				32		77	5.5	PSR210	27		119	4.5	PSR210	22			177	5	PSR210	
43	PLUG				38		48	4.5	PSR210	33	PLUG			78		28		120	4.5	PSR210	23			178	5	PSR210
44		19	4	PSR210	39	PLUG				34		78	5.5	PSR210	29		121	4.5	PSR210	24			179	5	PSR210	
45	PLUG				40		49	4.5	PSR210	35	PLUG			79		30		122	4.5	PSR210	25			180	5	PSR210
46		20	4	PSR210	41	PLUG				36		79	5.5	PSR210	31		123	4.5	PSR210	26			181	5	PSR210	
47	PLUG				42		50	4.5	PSR210	37	PLUG			80		32		124	4.5	PSR210	27			182	5	PSR210
48		21	4	PSR210	43	PLUG				38		80	5.5	PSR210	33		125	4.5	PSR210	28			183	5	PSR210	
49	PLUG				44		51	4.5	PSR210	39	PLUG			81		34		126	4.5	PSR210	29			184	5	PSR210
50		22	4	PSR210	45	PLUG				40		81	5.5	PSR210	35		127	4.5	PSR210	30			185	5	PSR210	
51	PLUG				46		52	4.5	PSR210	41	PLUG			82		36		128	4.5	PSR210	31			186	5	PSR210
52		23	4	PSR210	47	PLUG				42		82	5.5	PSR210	37		129	4.5	PSR210	32			187	5	PSR210	
53	PLUG				48		53	4.5	PSR210	43	PLUG			83		38		130	4.5	PSR210	33			188	5	PSR210
54		24	4	PSR210	49	PLUG				44		83	5.5	PSR210	39		131	4.5	PSR210	34			189	5	PSR210	
55	PLUG				50		54	4.5	PSR210	45	PLUG			84		40		132	4.5	PSR210	35			190	5	PSR210
56		25	4	PSR210	51	PLUG				46		84	5.5	PSR210	41		133	4.5	PSR210	36			191	5	PSR210	
57	PLUG				52		55	4.5	PSR210	47	PLUG			85		42		134	4.5	PSR210	37			192	5	PSR210
58		26	4	PSR210	53	PLUG				48		85	5.5	PSR210	43		135	4.5	PSR210	38			193	5	PSR210	
59	PLUG				54		56	4.5	PSR210	49	PLUG			86		44		136	4.5	PSR210	39			194	5	PSR210
60		27	4	PSR210	55	PLUG				50		86	5.5	PSR210	45		137	4.5	PSR210	40			195	5	PSR210	

SUPERIOR IRRIGATION  
115 EAST CENTRAL AVENUE  
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WIGGINS ROAD K  
300 GPM @ 17 PSI

LINDSAY GEN II - 30  
SENNINGER UP3 LDN SPRAY NOZZLES  
SENNINGER 10 PSI REGULATORS  
.75 I.D. FLEXIBLE HOSE  
HEAD

Rotation time at 100% = 13.59 Hours Or 815 minutes

Installation Chart Page 2

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
41		196	5	PSR210	36		254	5.5	PSR210	31		312	6	PSR210	26		370	6.5	PSR210
42		197	5	PSR210	37		255	5.5	PSR210	32		313	6	PSR210	27		371	6.5	PSR210
43		198	5	PSR210	38		256	5.5	PSR210	33		314	6	PSR210	28		372	6.5	PSR210
44		199	5	PSR210	39		257	5.5	PSR210	34		315	6	PSR210	29		373	6.5	PSR210
45		200	5	PSR210	40		258	5.5	PSR210	35		316	6	PSR210	30		374	6.5	PSR210
46		201	5	PSR210	41		259	5.5	PSR210	36		317	6	PSR210	31		375	6.5	PSR210
47		202	5	PSR210	42		260	5.5	PSR210	37		318	6	PSR210	32		376	6.5	PSR210
48		203	5	PSR210	43		261	5.5	PSR210	38		319	6	PSR210	33		377	6.5	PSR210
49		204	5.5	PSR210	44		262	6	PSR210	39		320	6	PSR210	34		378	6.5	PSR210
50		205	5	PSR210	45		263	5.5	PSR210	40		321	6	PSR210	35		379	6.5	PSR210
51		206	5	PSR210	46		264	5.5	PSR210	41		322	6	PSR210	36		380	6.5	PSR210
52		207	5.5	PSR210	47		265	5.5	PSR210	42		323	6	PSR210	37		381	6.5	PSR210
53		208	5.5	PSR210	48		266	5.5	PSR210	43		324	6	PSR210	38		382	6.5	PSR210
54		209	5	PSR210	49		267	6	PSR210	44		325	6	PSR210	39		383	6.5	PSR210
55		210	5.5	PSR210	50		268	6	PSR210	45		326	6	PSR210	40		384	6.5	PSR210
56		211	5.5	PSR210	51		269	5.5	PSR210	46		327	6	PSR210	41		385	6.5	PSR210
57		212	5.5	PSR210	52		270	6	PSR210	47		328	6	PSR210	42		386	6.5	PSR210
58		213	5.5	PSR210	53		271	6	PSR210	48		329	6	PSR210	43		387	6.5	PSR210
59		214	5.5	PSR210	54		272	5.5	PSR210	49		330	6.5	PSR210	44		388	6.5	PSR210
60		215	5.5	PSR210	55		273	6	PSR210	50		331	6	PSR210	45		389	6.5	PSR210
61		216	5.5	PSR210	56		274	6	PSR210	51		332	6	PSR210	46		390	6.5	PSR210
62		217	5.5	PSR210	57		275	6	PSR210	52		333	6	PSR210	47		391	6.5	PSR210
63		218	5.5	PSR210	58		276	6	PSR210	53		334	6	PSR210	48		392	6.5	PSR210
64		219	6.5	PSR210	59		277	6	PSR210	54		335	6	PSR210	49		393	6.5	PSR210
1	TOWER 5 PLUG				60		278	6	PSR210	55		336	6.5	PSR210	50		394	6.5	PSR210
2					61		279	6	PSR210	56		337	6.5	PSR210	51		395	6.5	PSR210
3		220	6.5	PSR210	62		280	6	PSR210	57		338	6	PSR210	52		396	6.5	PSR210
4		221	5.5	PSR210	63		281	6	PSR210	58		339	6.5	PSR210	53		397	6.5	PSR210
5		222	5.5	PSR210	64		282	7.5	PSR210	59		340	6.5	PSR210	54		398	6.5	PSR210
6		223	5.5	PSR210	TOWER 6 PLUG					60		341	6	PSR210	55		399	6.5	PSR210
7		224	5.5	PSR210		1				61		342	6.5	PSR210	56		400	6.5	PSR210
8		225	5.5	PSR210		2	283	7.5	PSR210	62		343	6.5	PSR210	57		401	6.5	PSR210
9		226	5.5	PSR210		3	284	6	PSR210	63		344	6.5	PSR210	58		402	6.5	PSR210
10		227	5.5	PSR210		4	285	6	PSR210	64		345	8	PSR210	59		403	6.5	PSR210
11		228	5.5	PSR210		5	286	6	PSR210	TOWER 7 PLUG					60		404	6.5	PSR210
12		229	5.5	PSR210		6	287	6	PSR210		1				61		405	7	PSR210
13		230	5.5	PSR210		7	288	6	PSR210		2	346	8	PSR210	62		406	7	PSR210
14		231	5.5	PSR210		8	289	6	PSR210		3	347	6.5	PSR210	63		407	6.5	PSR210
15		232	5.5	PSR210		9	290	6	PSR210		4	348	6.5	PSR210	64		408	8	PSR210
16		233	5.5	PSR210		10	291	6	PSR210		5	349	6.5	PSR210	TOWER 8				
17		234	5.5	PSR210		11	292	6	PSR210		6	350	6.5	PSR210		1	409	8	PSR210
18		235	5.5	PSR210		12	293	6	PSR210		7	351	6.5	PSR210		2	410	7	PSR210
19		236	5.5	PSR210		13	294	6	PSR210		8	352	6.5	PSR210		3	411	7	PSR210
20		237	5.5	PSR210		14	295	6	PSR210		9	353	6.5	PSR210		4	412	7	PSR210
21		238	5.5	PSR210		15	296	6	PSR210		10	354	6.5	PSR210		5	413	6.5	PSR210
22		239	5.5	PSR210		16	297	6	PSR210		11	355	6.5	PSR210		6	414	7	PSR210
23		240	5.5	PSR210		17	298	6	PSR210		12	356	6.5	PSR210		7	415	7	PSR210
24		241	5.5	PSR210		18	299	6	PSR210		13	357	6.5	PSR210		8	416	6.5	PSR210
25		242	5.5	PSR210		19	300	6	PSR210		14	358	6.5	PSR210		9	417	7	PSR210
26		243	5.5	PSR210		20	301	6	PSR210		15	359	6.5	PSR210		10	418	7	PSR210
27		244	5.5	PSR210		21	302	6	PSR210		16	360	6.5	PSR210		11	419	7	PSR210
28		245	5.5	PSR210		22	303	6	PSR210		17	361	6.5	PSR210		12	420	6.5	PSR210
29		246	5.5	PSR210		23	304	6	PSR210		18	362	6.5	PSR210		13	421	7	PSR210
30		247	5.5	PSR210		24	305	6	PSR210		19	363	6.5	PSR210		14	422	7	PSR210
31		248	5.5	PSR210		25	306	6	PSR210		20	364	6.5	PSR210					
32		249	5.5	PSR210		26	307	6	PSR210		21	365	6.5	PSR210					
33		250	5.5	PSR210		27	308	6	PSR210		22	366	6.5	PSR210					
34		251	5.5	PSR210		28	309	6	PSR210		23	367	6.5	PSR210					
35		252	5.5	PSR210		29	310	6	PSR210		24	368	6.5	PSR210					
		253	5.5	PSR210		30	311	6	PSR210		25	369	6.5	PSR210					

**PRECIPITATION CHART FOR FULL CIRCLE**

WISH-113830

MAY 02, 2024

DEALER - SUPERIOR IRRIGATION

IRRIGATOR - MITCH ROGERS

FIELD - WIGGINS ROAD K

TOTAL LENGTH PIPE = 1292.79    SYSTEM PRESSURE = 17 PSI

GPM UNDER PIPE = 300.24    TOTAL GPM = 300.24

ACRES UNDER PIPE = 120.54

RANGE OF ENDGUN = .00

GPM OF ENDGUN = .00

ACRES UNDER ENDGUN = .00

MOTOR SIZE (HP) = 3/4

LOADED MOTOR RPM = 1750

CENTER GEAR BOX RATIO = 40

WHEEL GEAR BOX RATIO = 50

TIRE SIZE = 11 X 24.5

LAST TOWER SPEED (FPM) = 9.70

**PRECIPITATION BASED**

**% TIMER BASED**

PRECIPITATION INCHES	% TIMER SETTING	TIME HOURS	% TIMER SETTING	PRECIPITATION INCHES	TIME HOURS
.07	100.00	13.59 - 815(min)	100.00	.07	13.59 - 815(min)
.10	74.80	18.17	90.00	.08	15.10
.20	37.40	36.34	80.00	.09	16.99
.25	29.92	45.42	70.00	.11	19.42
.30	24.93	54.51	60.00	.12	22.65
.40	18.70	72.68	50.00	.15	27.18
.50	14.96	90.85	45.00	.17	30.20
.60	12.47	109.02	40.00	.19	33.98
.70	10.69	127.19	35.00	.21	38.83
.75	9.97	136.27	30.00	.25	45.30
.80	9.35	145.36	25.00	.30	54.36
.90	8.31	163.53	20.00	.37	67.96
1.00	7.48	181.69	15.00	.50	90.61
1.25	5.98	227.12	10.00	.75	135.91
1.50	4.99	272.54	5.00	1.50	271.82

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.