

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

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.

LINDSAY GEN II - 30

MAY 02, 2024

WISH-113830

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	
97		238.33	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	52
98	4.84	240.75	0.41	0.37	15.51	11.40	LD NOZ UP3 4 LT BLUE	46	SPSR2-10	
99		243.25	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	53
100	4.92	245.67	0.42	0.37	15.51	11.40	LD NOZ UP3 4 LT BLUE	47	SPSR2-10	
101		248.09	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	54
102	4.92	250.59	0.43	0.48	15.52	11.40	LD NOZ UP3 4.5 LT BLUE	48	SPSR2-10	
103		253.01	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	55
104	4.84	255.43	0.44	0.48	15.54	11.40	LD NOZ UP3 4.5 LT BLUE	49	SPSR2-10	
105		257.93	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	56
106	4.92	260.35	0.45	0.48	15.57	11.40	LD NOZ UP3 4.5 LT BLUE	50	SPSR2-10	
107		262.77	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	57
108	4.92	265.27	0.45	0.48	15.60	11.40	LD NOZ UP3 4.5 LT BLUE	51	SPSR2-10	
109		267.77	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	58
110	4.83	270.10	0.46	0.48	15.65	11.40	LD NOZ UP3 4.5 LT BLUE	52	SPSR2-10	
111		272.58	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	59
112	4.81	274.91	0.47	0.48	15.71	11.40	LD NOZ UP3 4.5 LT BLUE	53	SPSR2-10	
113		277.41	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	60
114	5.00	279.91	0.48	0.48	15.78	11.40	LD NOZ UP3 4.5 LT BLUE	54	SPSR2-10	
115		282.33	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	61
116	4.84	284.75	0.49	0.48	15.85	11.40	LD NOZ UP3 4.5 LT BLUE	55	SPSR2-10	
117		287.25	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	62
118	4.92	289.67	0.50	0.48	15.94	11.40	LD NOZ UP3 4.5 LT BLUE	56	SPSR2-10	
119		292.09	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	63
120	4.92	294.59	0.50	0.48	16.03	11.40	LD NOZ UP3 4.5 LT BLUE	57	SPSR2-10	
121		297.01	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	64
122	4.84	299.43	0.51	0.48	16.14	11.40	LD NOZ UP3 4.5 LT BLUE	58	SPSR2-10	
123		301.93	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	65
124	4.92	304.35	0.52	0.48	16.25	11.40	LD NOZ UP3 4.5 LT BLUE	59	SPSR2-10	
125		306.77	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	66
126	4.92	309.27	0.53	0.48	16.34	11.40	LD NOZ UP3 4.5 LT BLUE	60	SPSR2-10	
127		311.77	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	67
128	4.83	314.10	0.57	0.59	16.33	11.40	LD NOZ UP3 5 BEIGE	61	SPSR2-10	
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	6	6	6	6	93	SPSR2-10	
TOWER 3	157.04	473.72													100
193		474.04	-	-	-	-	-	-	-	-	-	-	-	-	
194	5.48	476.62	0.65	0.72	16.03	11.40	LD NOZ UP3	5.5	5.5	5.5	5.5	5.5	94	SPSR2-10	
195	2.33	478.95	0.41	0.37	16.03	11.40	LD NOZ UP3	4	4	4	4	4	95	SPSR2-10	
196	2.50	481.45	0.42	0.37	16.01	11.40	LD NOZ UP3	4	4	4	4	4	96	SPSR2-10	
197	2.50	483.95	0.42	0.37	15.94	11.40	LD NOZ UP3	4	4	4	4	4	97	SPSR2-10	
198	2.42	486.37	0.41	0.37	15.87	11.40	LD NOZ UP3	4	4	4	4	4	98	SPSR2-10	
199	2.42	488.79	0.42	0.37	15.81	11.40	LD NOZ UP3	4	4	4	4	4	99	SPSR2-10	
200	2.50	491.29	0.42	0.37	15.74	11.40	LD NOZ UP3	4	4	4	4	4	100	SPSR2-10	
201	2.42	493.71	0.42	0.37	15.68	11.40	LD NOZ UP3	4	4	4	4	4	101	SPSR2-10	
202	2.42	496.13	0.43	0.48	15.62	11.40	LD NOZ UP3	4.5	4.5	4.5	4.5	4.5	102	SPSR2-10	
203	2.50	498.63	0.43	0.48	15.57	11.40	LD NOZ UP3	4.5	4.5	4.5	4.5	4.5	103	SPSR2-10	
204	2.42	501.05	0.43	0.37	15.52	11.40	LD NOZ UP3	4	4	4	4	4	104	SPSR2-10	
205	2.42	503.47	0.43	0.48	15.46	11.40	LD NOZ UP3	4.5	4.5	4.5	4.5	4.5	105	SPSR2-10	
206	2.50	505.97	0.44	0.48	15.42	11.40	LD NOZ UP3	4.5	4.5	4.5	4.5	4.5	106	SPSR2-10	
207	2.42	508.39	0.43	0.48	15.37	11.40	LD NOZ UP3	4.5	4.5	4.5	4.5	4.5	107	SPSR2-10	
208	2.42	510.81	0.44	0.48	15.33	11.40	LD NOZ UP3	4.5	4.5	4.5	4.5	4.5	108	SPSR2-10	
209	2.50	513.31	0.45	0.48	15.28	11.40	LD NOZ UP3	4.5	4.5	4.5	4.5	4.5	109	SPSR2-10	
210	2.50	515.81	0.44	0.48	15.24	11.40	LD NOZ UP3	4.5	4.5	4.5	4.5	4.5	110	SPSR2-10	
211	2.33	518.14	0.44	0.48	15.21	11.40	LD NOZ UP3	4.5	4.5	4.5	4.5	4.5	111	SPSR2-10	
212	2.49	520.63	0.44	0.48	15.17	11.40	LD NOZ UP3	4.5	4.5	4.5	4.5	4.5	112	SPSR2-10	
213	2.33	522.96	0.44	0.48	15.14	11.40	LD NOZ UP3	4.5	4.5	4.5	4.5	4.5	113	SPSR2-10	
214	2.50	525.46	0.46	0.48	15.11	11.40	LD NOZ UP3	4.5	4.5	4.5	4.5	4.5	114	SPSR2-10	
215	2.50	527.96	0.45	0.48	15.08	11.40	LD NOZ UP3	4.5	4.5	4.5	4.5	4.5	115	SPSR2-10	
216	2.42	530.38	0.45	0.48	15.06	11.40	LD NOZ UP3	4.5	4.5	4.5	4.5	4.5	116	SPSR2-10	
217	2.42	532.80	0.46	0.48	15.04	11.40	LD NOZ UP3	4.5	4.5	4.5	4.5	4.5	117	SPSR2-10	
218	2.50	535.30	0.47	0.48	15.02	11.40	LD NOZ UP3	4.5	4.5	4.5	4.5	4.5	118	SPSR2-10	
219	2.50	537.80	0.45	0.48	15.00	11.40	LD NOZ UP3	4.5	4.5	4.5	4.5	4.5	119	SPSR2-10	
220	2.33	540.13	0.46	0.48	14.98	11.40	LD NOZ UP3	4.5	4.5	4.5	4.5	4.5	120	SPSR2-10	
221	2.53	542.66	0.46	0.48	14.97	11.40	LD NOZ UP3	4.5	4.5	4.5	4.5	4.5	121	SPSR2-10	
222	2.33	544.99	0.46	0.48	14.96	11.40	LD NOZ UP3	4.5	4.5	4.5	4.5	4.5	122	SPSR2-10	
223	2.50	547.49	0.48	0.48	14.95	11.40	LD NOZ UP3	4.5	4.5	4.5	4.5	4.5	123	SPSR2-10	
224	2.50	549.99	0.47	0.48	14.94	11.40	LD NOZ UP3	4.5	4.5	4.5	4.5	4.5	124	SPSR2-10	
225	2.42	552.41	0.47	0.48	14.94	11.40	LD NOZ UP3	4.5	4.5	4.5	4.5	4.5	125	SPSR2-10	
226	2.42	554.83	0.48	0.48	14.94	11.40	LD NOZ UP3	4.5	4.5	4.5	4.5	4.5	126	SPSR2-10	
227	2.50	557.33	0.48	0.48	14.94	11.40	LD NOZ UP3	4.5	4.5	4.5	4.5	4.5	127	SPSR2-10	
228	2.42	559.75	0.47	0.48	14.94	11.40	LD NOZ UP3	4.5	4.5	4.5	4.5	4.5	128	SPSR2-10	
229	2.42	562.17	0.48	0.48	14.95	11.40	LD NOZ UP3	4.5	4.5	4.5	4.5	4.5	129	SPSR2-10	
230	2.50	564.67	0.49	0.48	14.96	11.40	LD NOZ UP3	4.5	4.5	4.5	4.5	4.5	130	SPSR2-10	
231	2.42	567.09	0.48	0.48	14.97	11.40	LD NOZ UP3	4.5	4.5	4.5	4.5	4.5	131	SPSR2-10	
232	2.42	569.51	0.49	0.48	14.98	11.40	LD NOZ UP3	4.5	4.5	4.5	4.5	4.5	132	SPSR2-10	
233	2.50	572.01	0.49	0.48	14.99	11.40	LD NOZ UP3	4.5	4.5	4.5	4.5	4.5	133	SPSR2-10	
234	2.42	574.43	0.49	0.48	15.01	11.40	LD NOZ UP3	4.5	4.5	4.5	4.5	4.5	134	SPSR2-10	
235	2.42	576.85	0.50	0.48	15.03	11.40	LD NOZ UP3	4.5	4.5	4.5	4.5	4.5	135	SPSR2-10	
236	2.50	579.35	0.51	0.48	15.05	11.40	LD NOZ UP3	4.5	4.5	4.5	4.5	4.5	136	SPSR2-10	
237	2.50	581.85	0.49	0.48	15.08	11.40	LD NOZ UP3	4.5	4.5	4.5	4.5	4.5	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 IN. PER HR DELIVERED UNDER SPAN	AVERAGE IN. DELIVERED 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, 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 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

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				61	PLUG				56		57	4.5	PSR210	51	PLUG				46		138	4.5	PSR210
2	PLUG				62	28	4		PSR210	57	PLUG	58	4.5	PSR210	52	PLUG	87	5.5	PSR210	47		139	4.5	PSR210
3	PLUG				63	PLUG				58		59	4.5	PSR210	53	PLUG				48		140	4.5	PSR210
4	PLUG				64	29	4		PSR210	59	PLUG	59	4.5	PSR210	54	PLUG	88	5.5	PSR210	49		141	4.5	PSR210
5	PLUG				TOWER 1					60	PLUG	59	4.5	PSR210	55	PLUG				50		142	4.5	PSR210
6	PLUG				1	PLUG				61	PLUG	60	4.5	PSR210	56	PLUG	89	5.5	PSR210	51		143	4.5	PSR210
7	PLUG				2	30	4		PSR210	62	PLUG	60	4.5	PSR210	57	PLUG	90	5.5	PSR210	52		144	4.5	PSR210
8	PLUG	1	4	PSR210	3	PLUG				63	PLUG	61	5	PSR210	59	PLUG				53		145	4.5	PSR210
9	PLUG				4					64					60	PLUG	91	6	PSR210	55		146	4.5	PSR210
10	PLUG	2	4	PSR210	5	PLUG									61	PLUG				56		147	4.5	PSR210
11	PLUG				6										62	PLUG	92	6	PSR210	57		148	4.5	PSR210
12	PLUG	3	4	PSR210	7	PLUG									63	PLUG				58		149	4.5	PSR210
13	PLUG				8										64		93	6	PSR210	59		150	4.5	PSR210
14	PLUG	4	4	PSR210	9	PLUG													60		151	4.5	PSR210	
15	PLUG				10										1	PLUG				61		152	4.5	PSR210
16	PLUG	5	4	PSR210	11	PLUG									2		94	5.5	PSR210	62		153	5	PSR210
17	PLUG				12										3		95	4	PSR210	63		154	5	PSR210
18	PLUG	6	4	PSR210	13	PLUG									4		96	4	PSR210	64		155	4.5	PSR210
19	PLUG				14														6		156	6	PSR210	
20	PLUG	7	4	PSR210	15	PLUG																		TOWER 4
21	PLUG				16										1	PLUG				61		157	6	PSR210
22	PLUG	8	4	PSR210	17	PLUG									2		99	4	PSR210	62		158	5	PSR210
23	PLUG				18										3		100	4	PSR210	63		159	5	PSR210
24	PLUG	9	4	PSR210	19	PLUG									4		101	4	PSR210	64		160	5	PSR210
25	PLUG				20										5	PLUG				65		161	5	PSR210
26	PLUG	10	4	PSR210	21	PLUG									6		102	4.5	PSR210	65		162	5	PSR210
27	PLUG				22										7	PLUG				66		163	5	PSR210
28	PLUG	11	4	PSR210	23	PLUG									8		104	4	PSR210	67		164	5	PSR210
29	PLUG				24										9	PLUG				68		165	5	PSR210
30	PLUG	12	4	PSR210	25	PLUG									10		105	4.5	PSR210	69		166	5	PSR210
31	PLUG				26										11	PLUG				70		167	5	PSR210
32	PLUG	13	4	PSR210	27	PLUG									12		106	4.5	PSR210	70		168	5	PSR210
33	PLUG				28										13	PLUG				71		169	5	PSR210
34	PLUG	14	4	PSR210	29	PLUG									14		111	4.5	PSR210	72		170	5	PSR210
35	PLUG				30										15	PLUG				73		171	5	PSR210
36	PLUG	15	4	PSR210	31	PLUG									16		112	4.5	PSR210	74		172	5	PSR210
37	PLUG				32										17	PLUG				75		173	5	PSR210
38	PLUG	16	4	PSR210	33	PLUG									18		115	4.5	PSR210	76		174	5	PSR210
39	PLUG				34										19	PLUG				77		175	5	PSR210
40	PLUG	17	4	PSR210	35	PLUG									20		116	4.5	PSR210	78		176	5	PSR210
41	PLUG				36										21	PLUG				79		177	5	PSR210
42	PLUG	18	4	PSR210	37	PLUG									22		117	4.5	PSR210	80		178	5	PSR210
43	PLUG				38										23	PLUG				81		179	5	PSR210
44	PLUG	19	4	PSR210	39	PLUG									24		118	4.5	PSR210	82		180	5	PSR210
45	PLUG				40										25	PLUG				83		181	5	PSR210
46	PLUG	20	4	PSR210	41	PLUG									26		119	4.5	PSR210	84		182	5	PSR210
47	PLUG				42										27	PLUG				85		183	5	PSR210
48	PLUG	21	4	PSR210	43	PLUG									28		120	4.5	PSR210	86		184	5	PSR210
49	PLUG				44										29	PLUG				87		185	5	PSR210
50	PLUG	22	4	PSR210	45	PLUG									30		121	4.5	PSR210	88		186	5	PSR210
51	PLUG				46										31	PLUG				89		187	5	PSR210
52	PLUG	23	4	PSR210	47	PLUG									32		122	4.5	PSR210	90		188	5	PSR210
53	PLUG				48										33	PLUG				91		189	5	PSR210
54	PLUG	24	4	PSR210	49	PLUG									34		123	4.5	PSR210	92		190	5	PSR210
55	PLUG				50										35	PLUG				93		191	5	PSR210
56	PLUG	25	4	PSR210	51	PLUG									36		124	4.5	PSR210	94		192	5	PSR210
57	PLUG				52										37	PLUG				95		193	5	PSR210
58	PLUG	26	4	PSR210	53	PLUG									38		125	4.5	PSR210	96		194	5	PSR210
59	PLUG				54										39	PLUG				97		195	5	PSR210
60	PLUG	27	4	PSR210	55	PLUG									40		126	4.5	PSR210	98		196	5	PSR210

SUPERIOR IRRIGATION
115 EAST CENTRAL AVENUE
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MAY 02, 2024
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MITCH ROGERS
WIGGINS ROAD K
0 GPM @ 17 PSI

LINDSAY GEN II - 30
SENNINGER UP3 LDN SPRAY NOZZLES
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.75 I.D. FLEXIBLE HOSE
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Rotation time at 100% = 13.59 Hours Or 815 minutes

300 GPM @ 17 PSI

Page 2

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.