

WESTERN KANSAS IRRIGATION

MAY 06, 2025

WISH-119625

CUSTOMER : K STATE RAINGER LINEAR

VALLEY 8000 LINEAR
7 TOWER - 1241.66 FT
SYSTEM 423.5 GPM @ 9 PSI

P.O. NO. : INV170092

NELSON D3030 SPRAY NOZZLES
NELSON 6 PSI REGULATORS
NO ENDGUN
ELEVATION 0 FT UP, 0 FT DOWN

2707 JONES AVENUE
GARDEN CITY, KANSAS 67846
(620)276-8257

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.

VALLEY 8000 LINEAR

MAY 06, 2025

WISH-119625

DEALER

WESTERN KANSAS IRRIGATION
2707 JONES AVENUE
GARDEN CITY, KANSAS 67846

IRRIGATOR

K STATE RAINGER LINEAR

INV170092

TOTAL TARGET GPM	423.50	FRICTION FACTOR USED	140	SPANS	LENGTH	PIPE I.D.
TOP OF PIVOT PRESSURE	9.00	TOTAL LENGTH	1241.66	1	160.85	6.415
NO ENDGUN		NUMBER OF TOWERS	7	5	180.18	6.415
NUMBER OF OUTLETS	496	NUMBER OF SPRINKLERS	247	1	179.91	6.415

NELSON D3030 SPRAY NOZZLES - CONCAVE BLUE 36 DEEP GROOVE X BUBBLER PLATES

NELSON ALL-FLO 6 PSI INTEGRAL SERIES REGULATORS

DROPS AVERAGE 12.5 FT OF .75 I.D. PREMIUM BLUE FLEXIBLE HOSE - NELSON 1 LB WEIGHT

ELEVATION IS 0 FT UP AND 0 FT DOWN

CAUTIONS AND WARNINGS

1. When using spray nozzles with five foot ground clearance or less, nozzle should travel between crop rows and spacing should not exceed 80 inches.

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		.94	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	1
2		3.44	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	2
3		5.94	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	3
4	8.44	8.44	1.71	1.71	8.95	6.10	D3030 20 TURQUOISE	1	NEL06AF	
5		10.94	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	4
6	5.00	13.44	1.71	1.71	8.83	6.10	D3030 20 TURQUOISE	2	NEL06AF	
7		15.94	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	5
8	5.00	18.44	1.71	1.71	8.70	6.10	D3030 20 TURQUOISE	3	NEL06AF	
9		20.94	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	6
10	5.00	23.44	1.71	1.71	8.59	6.10	D3030 20 TURQUOISE	4	NEL06AF	
11		25.94	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	7
12	5.00	28.44	1.71	1.71	8.49	6.10	D3030 20 TURQUOISE	5	NEL06AF	
13		30.94	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	8
14	5.00	33.44	1.71	1.71	8.39	6.10	D3030 20 TURQUOISE	6	NEL06AF	
15		35.94	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	9
16	5.00	38.44	1.71	1.71	8.30	6.10	D3030 20 TURQUOISE	7	NEL06AF	
17		40.94	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	10
18	5.00	43.44	1.71	1.71	8.22	6.10	D3030 20 TURQUOISE	8	NEL06AF	
19		45.94	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	11
20	5.00	48.44	1.71	1.71	8.15	6.10	D3030 20 TURQUOISE	9	NEL06AF	
21		50.94	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	12
22	5.00	53.44	1.71	1.71	8.08	6.10	D3030 20 TURQUOISE	10	NEL06AF	
23		55.94	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	13
24	5.00	58.44	1.71	1.71	8.03	6.10	D3030 20 TURQUOISE	11	NEL06AF	
25		60.94	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	14
26	5.00	63.44	1.71	1.71	7.98	6.10	D3030 20 TURQUOISE	12	NEL06AF	
27		65.94	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	15
28	5.00	68.44	1.71	1.71	7.94	6.10	D3030 20 TURQUOISE	13	NEL06AF	
29		70.94	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	16
30	5.00	73.44	1.71	1.71	7.90	6.10	D3030 20 TURQUOISE	14	NEL06AF	
31		75.94	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	17
32	5.00	78.44	1.69	1.71	7.88	6.10	D3030 20 TURQUOISE	15	NEL06AF	
33		80.89	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	18
34	4.90	83.34	1.68	1.71	7.86	6.10	D3030 20 TURQUOISE	16	NEL06AF	
35		85.84	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	19
36	5.00	88.34	1.69	1.71	7.85	6.10	D3030 20 TURQUOISE	17	NEL06AF	
37		90.84	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	20
38	5.00	93.34	1.69	1.71	7.85	6.10	D3030 20 TURQUOISE	18	NEL06AF	
39		95.84	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	21
40	5.00	98.34	1.70	1.71	7.86	6.10	D3030 20 TURQUOISE	19	NEL06AF	
41		100.84	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	22
42	5.00	103.34	1.70	1.71	7.87	6.10	D3030 20 TURQUOISE	20	NEL06AF	
43		105.84	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	23
44	5.00	108.34	1.70	1.71	7.90	6.10	D3030 20 TURQUOISE	21	NEL06AF	
45		110.84	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	24
46	5.00	113.34	1.70	1.71	7.93	6.10	D3030 20 TURQUOISE	22	NEL06AF	
47		115.84	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	25
48	5.00	118.34	1.70	1.71	7.97	6.10	D3030 20 TURQUOISE	23	NEL06AF	

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	238.55	1.71	1.71	7.11	6.10	D3030 20 TURQUOISE	47	NEL06AF	
97		241.05	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	50
98	5.00	243.55	1.71	1.71	7.08	6.10	D3030 20 TURQUOISE	48	NEL06AF	
99		246.05	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	51
100	5.00	248.55	1.71	1.71	7.06	6.10	D3030 20 TURQUOISE	49	NEL06AF	
101		251.04	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	52
102	4.98	253.53	1.71	1.71	7.05	6.10	D3030 20 TURQUOISE	50	NEL06AF	
103		256.03	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	53
104	5.00	258.53	1.71	1.71	7.05	6.10	D3030 20 TURQUOISE	51	NEL06AF	
105		261.03	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	54
106	5.00	263.53	1.71	1.71	7.05	6.10	D3030 20 TURQUOISE	52	NEL06AF	
107		266.03	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	55
108	5.00	268.53	1.71	1.71	7.06	6.10	D3030 20 TURQUOISE	53	NEL06AF	
109		271.03	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	56
110	5.00	273.53	1.71	1.71	7.08	6.10	D3030 20 TURQUOISE	54	NEL06AF	
111		276.03	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	57
112	5.00	278.53	1.71	1.71	7.11	6.10	D3030 20 TURQUOISE	55	NEL06AF	
113		281.03	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	58
114	5.00	283.53	1.71	1.71	7.15	6.10	D3030 20 TURQUOISE	56	NEL06AF	
115		286.03	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	59
116	5.00	288.53	1.71	1.71	7.20	6.10	D3030 20 TURQUOISE	57	NEL06AF	
117		291.03	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	60
118	5.00	293.53	1.71	1.71	7.25	6.10	D3030 20 TURQUOISE	58	NEL06AF	
119		296.03	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	61
120	5.00	298.53	1.71	1.71	7.32	6.10	D3030 20 TURQUOISE	59	NEL06AF	
121		301.03	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	62
122	5.00	303.53	1.71	1.71	7.39	6.10	D3030 20 TURQUOISE	60	NEL06AF	
123		306.03	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	63
124	5.00	308.53	1.71	1.71	7.47	6.10	D3030 20 TURQUOISE	61	NEL06AF	
125		311.03	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	64
126	5.00	313.53	1.71	1.71	7.56	6.10	D3030 20 TURQUOISE	62	NEL06AF	
127		316.03	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	65
128	5.00	318.53	1.71	1.71	7.65	6.10	D3030 20 TURQUOISE	63	NEL06AF	
129		321.03	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	66
130	5.00	323.53	1.71	1.71	7.76	6.10	D3030 20 TURQUOISE	64	NEL06AF	
131		326.03	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	67
132	5.00	328.53	1.71	1.71	7.87	6.10	D3030 20 TURQUOISE	65	NEL06AF	
133		331.03	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	68
134	5.00	333.53	1.71	1.71	7.93	6.10	D3030 20 TURQUOISE	66	NEL06AF	
135		336.03	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	69
136	5.00	338.53	1.75	1.71	7.91	6.10	D3030 20 TURQUOISE	67	NEL06AF	
TOWER 2	180.18	341.03								
137		341.23	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	70
138	5.20	343.73	1.77	1.71	7.90	6.10	D3030 20 TURQUOISE	68	NEL06AF	
139		346.23	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	71
140	5.00	348.73	1.76	1.71	7.89	6.10	D3030 20 TURQUOISE	69	NEL06AF	
141		351.23	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	72
142	5.00	353.73	1.75	1.71	7.76	6.10	D3030 20 TURQUOISE	70	NEL06AF	

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		356.23	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	73
144	5.00	358.73	1.74	1.71	7.63	6.10	D3030 20 TURQUOISE	71	NEL06AF	
145		361.23	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	74
146	5.00	363.73	1.74	1.71	7.50	6.10	D3030 20 TURQUOISE	72	NEL06AF	
147		366.23	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	75
148	5.00	368.73	1.73	1.71	7.39	6.10	D3030 20 TURQUOISE	73	NEL06AF	
149		371.23	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	76
150	5.00	373.73	1.73	1.71	7.28	6.10	D3030 20 TURQUOISE	74	NEL06AF	
151		376.23	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	77
152	5.00	378.73	1.73	1.71	7.18	6.10	D3030 20 TURQUOISE	75	NEL06AF	
153		381.23	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	78
154	5.00	383.73	1.72	1.71	7.09	6.10	D3030 20 TURQUOISE	76	NEL06AF	
155		386.23	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	79
156	5.00	388.73	1.72	1.71	7.01	6.10	D3030 20 TURQUOISE	77	NEL06AF	
157		391.23	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	80
158	5.00	393.73	1.72	1.71	6.93	6.10	D3030 20 TURQUOISE	78	NEL06AF	
159		396.23	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	81
160	5.00	398.73	1.72	1.71	6.86	6.10	D3030 20 TURQUOISE	79	NEL06AF	
161		401.23	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	82
162	5.00	403.73	1.72	1.71	6.81	6.10	D3030 20 TURQUOISE	80	NEL06AF	
163		406.23	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	83
164	5.00	408.73	1.72	1.71	6.76	6.10	D3030 20 TURQUOISE	81	NEL06AF	
165		411.23	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	84
166	5.00	413.73	1.72	1.71	6.72	6.10	D3030 20 TURQUOISE	82	NEL06AF	
167		416.23	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	85
168	5.00	418.73	1.72	1.71	6.68	6.10	D3030 20 TURQUOISE	83	NEL06AF	
169		421.23	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	86
170	5.00	423.73	1.72	1.71	6.66	6.10	D3030 20 TURQUOISE	84	NEL06AF	
171		426.23	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	87
172	5.00	428.73	1.71	1.71	6.64	6.10	D3030 20 TURQUOISE	85	NEL06AF	
173		431.22	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	88
174	4.98	433.71	1.71	1.71	6.63	6.10	D3030 20 TURQUOISE	86	NEL06AF	
175		436.21	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	89
176	5.00	438.71	1.71	1.71	6.64	6.10	D3030 20 TURQUOISE	87	NEL06AF	
177		441.21	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	90
178	5.00	443.71	1.71	1.71	6.64	6.10	D3030 20 TURQUOISE	88	NEL06AF	
179		446.21	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	91
180	5.00	448.71	1.71	1.71	6.66	6.10	D3030 20 TURQUOISE	89	NEL06AF	
181		451.21	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	92
182	5.00	453.71	1.71	1.71	6.69	6.10	D3030 20 TURQUOISE	90	NEL06AF	
183		456.21	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	93
184	5.00	458.71	1.71	1.71	6.72	6.10	D3030 20 TURQUOISE	91	NEL06AF	
185		461.21	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	94
186	5.00	463.71	1.71	1.71	6.76	6.10	D3030 20 TURQUOISE	92	NEL06AF	
187		466.21	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	95
188	5.00	468.71	1.71	1.71	6.81	6.10	D3030 20 TURQUOISE	93	NEL06AF	
189		471.21	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	96
190	5.00	473.71	1.71	1.71	6.87	6.10	D3030 20 TURQUOISE	94	NEL06AF	

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		5.00	593.91	1.72	1.71	6.43	6.10 D3030 20 TURQUOISE	118	NEL06AF	
239			596.41	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	121
240		5.00	598.91	1.72	1.71	6.40	6.10 D3030 20 TURQUOISE	119	NEL06AF	
241			601.41	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	122
242		5.00	603.91	1.72	1.71	6.38	6.10 D3030 20 TURQUOISE	120	NEL06AF	
243			606.41	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	123
244		5.00	608.91	1.71	1.71	6.36	6.10 D3030 20 TURQUOISE	121	NEL06AF	
245			611.40	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	124
246		4.98	613.89	1.71	1.71	6.36	6.10 D3030 20 TURQUOISE	122	NEL06AF	
247			616.39	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	125
248		5.00	618.89	1.71	1.71	6.36	6.10 D3030 20 TURQUOISE	123	NEL06AF	
249			621.39	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	126
250		5.00	623.89	1.71	1.71	6.38	6.10 D3030 20 TURQUOISE	124	NEL06AF	
251			626.39	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	127
252		5.00	628.89	1.71	1.71	6.40	6.10 D3030 20 TURQUOISE	125	NEL06AF	
253			631.39	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	128
254		5.00	633.89	1.71	1.71	6.43	6.10 D3030 20 TURQUOISE	126	NEL06AF	
255			636.39	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	129
256		5.00	638.89	1.71	1.71	6.46	6.10 D3030 20 TURQUOISE	127	NEL06AF	
257			641.39	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	130
258		5.00	643.89	1.71	1.71	6.51	6.10 D3030 20 TURQUOISE	128	NEL06AF	
259			646.39	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	131
260		5.00	648.89	1.71	1.71	6.56	6.10 D3030 20 TURQUOISE	129	NEL06AF	
261			651.39	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	132
262		5.00	653.89	1.71	1.71	6.62	6.10 D3030 20 TURQUOISE	130	NEL06AF	
263			656.39	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	133
264		5.00	658.89	1.71	1.71	6.70	6.10 D3030 20 TURQUOISE	131	NEL06AF	
265			661.39	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	134
266		5.00	663.89	1.71	1.71	6.77	6.10 D3030 20 TURQUOISE	132	NEL06AF	
267			666.39	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	135
268		5.00	668.89	1.71	1.71	6.86	6.10 D3030 20 TURQUOISE	133	NEL06AF	
269			671.39	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	136
270		5.00	673.89	1.72	1.71	6.96	6.10 D3030 20 TURQUOISE	134	NEL06AF	
271			676.39	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	137
272		5.00	678.89	1.72	1.71	7.06	6.10 D3030 20 TURQUOISE	135	NEL06AF	
273			681.39	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	138
274		5.00	683.89	1.72	1.71	7.17	6.10 D3030 20 TURQUOISE	136	NEL06AF	
275			686.39	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	139
276		5.00	688.89	1.72	1.71	7.29	6.10 D3030 20 TURQUOISE	137	NEL06AF	
277			691.39	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	140
278		5.00	693.89	1.72	1.71	7.36	6.10 D3030 20 TURQUOISE	138	NEL06AF	
279			696.39	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	141
280		5.00	698.89	1.75	1.71	7.35	6.10 D3030 20 TURQUOISE	139	NEL06AF	
TOWER 4		180.18	701.39	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	
281			701.59	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	142
282		5.20	704.09	1.78	1.71	7.35	6.10 D3030 20 TURQUOISE	140	NEL06AF	
283			706.59	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	143
284		5.00	709.09	1.77	1.71	7.34	6.10 D3030 20 TURQUOISE	141	NEL06AF	

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		711.59	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	144
286	5.00	714.09	1.76	1.71	7.22	6.10	D3030 20 TURQUOISE	142	NEL06AF	
287		716.59	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	145
288	5.00	719.09	1.75	1.71	7.09	6.10	D3030 20 TURQUOISE	143	NEL06AF	
289		721.59	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	146
290	5.00	724.09	1.74	1.71	6.98	6.10	D3030 20 TURQUOISE	144	NEL06AF	
291		726.59	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	147
292	5.00	729.09	1.74	1.71	6.87	6.10	D3030 20 TURQUOISE	145	NEL06AF	
293		731.59	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	148
294	5.00	734.09	1.73	1.71	6.76	6.10	D3030 20 TURQUOISE	146	NEL06AF	
295		736.59	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	149
296	5.00	739.09	1.73	1.71	6.67	6.10	D3030 20 TURQUOISE	147	NEL06AF	
297		741.59	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	150
298	5.00	744.09	1.73	1.71	6.59	6.10	D3030 20 TURQUOISE	148	NEL06AF	
299		746.59	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	151
300	5.00	749.09	1.73	1.71	6.51	6.10	D3030 20 TURQUOISE	149	NEL06AF	
301		751.59	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	152
302	5.00	754.09	1.73	1.71	6.44	6.10	D3030 20 TURQUOISE	150	NEL06AF	
303		756.59	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	153
304	5.00	759.09	1.72	1.71	6.38	6.10	D3030 20 TURQUOISE	151	NEL06AF	
305		761.59	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	154
306	5.00	764.09	1.72	1.71	6.33	6.10	D3030 20 TURQUOISE	152	NEL06AF	
307		766.59	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	155
308	5.00	769.09	1.72	1.71	6.29	6.10	D3030 20 TURQUOISE	153	NEL06AF	
309		771.59	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	156
310	5.00	774.09	1.72	1.71	6.25	6.10	D3030 20 TURQUOISE	154	NEL06AF	
311		776.59	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	157
312	5.00	779.09	1.72	1.71	6.23	6.10	D3030 20 TURQUOISE	155	NEL06AF	
313		781.59	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	158
314	5.00	784.09	1.72	1.71	6.21	6.10	D3030 20 TURQUOISE	156	NEL06AF	
315		786.59	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	159
316	5.00	789.09	1.72	1.71	6.20	6.10	D3030 20 TURQUOISE	157	NEL06AF	
317		791.58	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	160
318	4.98	794.07	1.71	1.71	6.20	6.10	D3030 20 TURQUOISE	158	NEL06AF	
319		796.57	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	161
320	5.00	799.07	1.72	1.71	6.21	6.10	D3030 20 TURQUOISE	159	NEL06AF	
321		801.57	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	162
322	5.00	804.07	1.72	1.71	6.22	6.10	D3030 20 TURQUOISE	160	NEL06AF	
323		806.57	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	163
324	5.00	809.07	1.72	1.71	6.24	6.10	D3030 20 TURQUOISE	161	NEL06AF	
325		811.57	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	164
326	5.00	814.07	1.72	1.71	6.28	6.10	D3030 20 TURQUOISE	162	NEL06AF	
327		816.57	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	165
328	5.00	819.07	1.72	1.71	6.32	6.10	D3030 20 TURQUOISE	163	NEL06AF	
329		821.57	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	166
330	5.00	824.07	1.72	1.71	6.36	6.10	D3030 20 TURQUOISE	164	NEL06AF	
331		826.57	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	167
332	5.00	829.07	1.72	1.71	6.42	6.10	D3030 20 TURQUOISE	165	NEL06AF	

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		5.00	949.27	1.73	1.71	6.20	6.10 D3030 20 TURQUOISE	189	NEL06AF	
381			951.77	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	192
382		5.00	954.27	1.73	1.71	6.17	6.10 D3030 20 TURQUOISE	190	NEL06AF	
383			956.77	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	193
384		5.00	959.27	1.73	1.71	6.15	6.10 D3030 20 TURQUOISE	191	NEL06AF	
385			961.77	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	194
386		5.00	964.27	1.73	1.71	6.13	6.10 D3030 20 TURQUOISE	192	NEL06AF	
387			966.77	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	195
388		5.00	969.27	1.73	1.71	6.12	6.10 D3030 20 TURQUOISE	193	NEL06AF	
389			971.76	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	196
390		4.98	974.25	1.72	1.71	6.12	6.10 D3030 20 TURQUOISE	194	NEL06AF	
391			976.75	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	197
392		5.00	979.25	1.72	1.71	6.13	6.10 D3030 20 TURQUOISE	195	NEL06AF	
393			981.75	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	198
394		5.00	984.25	1.72	1.71	6.15	6.10 D3030 20 TURQUOISE	196	NEL06AF	
395			986.75	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	199
396		5.00	989.25	1.73	1.71	6.17	6.10 D3030 20 TURQUOISE	197	NEL06AF	
397			991.75	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	200
398		5.00	994.25	1.73	1.71	6.21	6.10 D3030 20 TURQUOISE	198	NEL06AF	
399			996.75	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	201
400		5.00	999.25	1.73	1.71	6.25	6.10 D3030 20 TURQUOISE	199	NEL06AF	
401			1001.75	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	202
402		5.00	1004.25	1.73	1.71	6.30	6.10 D3030 20 TURQUOISE	200	NEL06AF	
403			1006.75	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	203
404		5.00	1009.25	1.73	1.71	6.36	6.10 D3030 20 TURQUOISE	201	NEL06AF	
405			1011.75	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	204
406		5.00	1014.25	1.73	1.71	6.42	6.10 D3030 20 TURQUOISE	202	NEL06AF	
407			1016.75	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	205
408		5.00	1019.25	1.73	1.71	6.50	6.10 D3030 20 TURQUOISE	203	NEL06AF	
409			1021.75	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	206
410		5.00	1024.25	1.73	1.71	6.58	6.10 D3030 20 TURQUOISE	204	NEL06AF	
411			1026.75	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	207
412		5.00	1029.25	1.73	1.71	6.67	6.10 D3030 20 TURQUOISE	205	NEL06AF	
413			1031.75	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	208
414		5.00	1034.25	1.73	1.71	6.77	6.10 D3030 20 TURQUOISE	206	NEL06AF	
415			1036.75	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	209
416		5.00	1039.25	1.73	1.71	6.88	6.10 D3030 20 TURQUOISE	207	NEL06AF	
417			1041.75	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	210
418		5.00	1044.25	1.73	1.71	7.00	6.10 D3030 20 TURQUOISE	208	NEL06AF	
419			1046.75	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	211
420		5.00	1049.25	1.73	1.71	7.12	6.10 D3030 20 TURQUOISE	209	NEL06AF	
421			1051.75	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	212
422		5.00	1054.25	1.73	1.71	7.19	6.10 D3030 20 TURQUOISE	210	NEL06AF	
423			1056.75	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	213
424		5.00	1059.25	1.77	1.71	7.19	6.10 D3030 20 TURQUOISE	211	NEL06AF	
TOWER 6		180.18	1061.75	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	214
425			1061.95	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	
426		5.20	1064.45	1.71	1.71	7.19	6.10 D3030 20 TURQUOISE	212	NEL06AF	

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		1066.95	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	215
428	5.00	1069.45	1.72	1.71	7.19	6.10	D3030 20 TURQUOISE	213	NEL06AF	
429		1071.95	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	216
430	5.00	1074.45	1.72	1.71	7.07	6.10	D3030 20 TURQUOISE	214	NEL06AF	
431		1076.95	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	217
432	5.00	1079.45	1.73	1.71	6.94	6.10	D3030 20 TURQUOISE	215	NEL06AF	
433		1081.95	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	218
434	5.00	1084.45	1.73	1.71	6.83	6.10	D3030 20 TURQUOISE	216	NEL06AF	
435		1086.95	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	219
436	5.00	1089.45	1.74	1.71	6.72	6.10	D3030 20 TURQUOISE	217	NEL06AF	
437		1091.95	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	220
438	5.00	1094.45	1.74	1.71	6.63	6.10	D3030 20 TURQUOISE	218	NEL06AF	
439		1096.95	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	221
440	5.00	1099.45	1.74	1.71	6.54	6.10	D3030 20 TURQUOISE	219	NEL06AF	
441		1101.95	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	222
442	5.00	1104.45	1.74	1.71	6.46	6.10	D3030 20 TURQUOISE	220	NEL06AF	
443		1106.95	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	223
444	5.00	1109.45	1.75	1.71	6.38	6.10	D3030 20 TURQUOISE	221	NEL06AF	
445		1111.95	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	224
446	5.00	1114.45	1.75	1.71	6.32	6.10	D3030 20 TURQUOISE	222	NEL06AF	
447		1116.95	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	225
448	5.00	1119.45	1.75	1.71	6.26	6.10	D3030 20 TURQUOISE	223	NEL06AF	
449		1121.95	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	226
450	5.00	1124.45	1.75	1.71	6.21	6.10	D3030 20 TURQUOISE	224	NEL06AF	
451		1126.95	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	227
452	5.00	1129.45	1.75	1.71	6.17	6.10	D3030 20 TURQUOISE	225	NEL06AF	
453		1131.95	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	228
454	5.00	1134.45	1.76	1.71	6.14	6.10	D3030 20 TURQUOISE	226	NEL06AF	
455		1136.95	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	229
456	5.00	1139.45	1.76	1.71	6.12	6.10	D3030 20 TURQUOISE	227	NEL06AF	
457		1141.95	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	230
458	5.00	1144.45	1.76	1.71	6.11	6.10	D3030 20 TURQUOISE	228	NEL06AF	
459		1146.95	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	231
460	5.00	1149.45	1.76	1.71	6.10	6.10	D3030 20 TURQUOISE	229	NEL06AF	
461		1151.94	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	232
462	4.98	1154.43	1.76	1.71	6.10	6.10	D3030 20 TURQUOISE	230	NEL06AF	
463		1156.93	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	233
464	5.00	1159.43	1.76	1.71	6.11	6.10	D3030 20 TURQUOISE	231	NEL06AF	
465		1161.93	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	234
466	5.00	1164.43	1.77	1.71	6.13	6.10	D3030 20 TURQUOISE	232	NEL06AF	
467		1166.93	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	235
468	5.00	1169.43	1.77	1.71	6.16	6.10	D3030 20 TURQUOISE	233	NEL06AF	
469		1171.93	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	236
470	5.00	1174.43	1.77	1.71	6.19	6.10	D3030 20 TURQUOISE	234	NEL06AF	
471		1176.93	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	237
472	5.00	1179.43	1.78	1.71	6.23	6.10	D3030 20 TURQUOISE	235	NEL06AF	
473		1181.93	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	238
474	5.00	1184.43	1.78	1.71	6.28	6.10	D3030 20 TURQUOISE	236	NEL06AF	

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.
475		1186.93	-	-	-	-	-	-	-	-
476	5.00	1189.43	1.71	1.71	6.34	6.10	D3030 20 TURQUOISE	237	NEL06AF	239
477		1191.93	-	-	-	-	-	-	-	240
478	5.00	1194.43	1.73	1.71	6.41	6.10	D3030 20 TURQUOISE	238	NEL06AF	
479		1196.93	-	-	-	-	-	-	-	241
480	5.00	1199.43	1.75	1.71	6.49	6.10	D3030 20 TURQUOISE	239	NEL06AF	
481		1201.93	-	-	-	-	-	-	-	242
482	5.00	1204.43	1.77	1.71	6.57	6.10	D3030 20 TURQUOISE	240	NEL06AF	
483		1206.93	-	-	-	-	-	-	-	243
484	5.00	1209.43	1.71	1.71	6.66	6.10	D3030 20 TURQUOISE	241	NEL06AF	
485		1211.93	-	-	-	-	-	-	-	244
486	5.00	1214.43	1.75	1.71	6.77	6.10	D3030 20 TURQUOISE	242	NEL06AF	
487		1216.93	-	-	-	-	-	-	-	245
488	5.00	1219.43	1.78	1.71	6.87	6.10	D3030 20 TURQUOISE	243	NEL06AF	
489		1221.93	-	-	-	-	-	-	-	246
490	5.00	1224.43	1.71	1.71	6.99	6.10	D3030 20 TURQUOISE	244	NEL06AF	
491		1226.93	-	-	-	-	-	-	-	247
492	5.00	1229.43	1.71	1.71	7.12	6.10	D3030 20 TURQUOISE	245	NEL06AF	
493		1231.93	-	-	-	-	-	-	-	248
494	5.00	1234.43	1.71	1.71	7.18	6.10	D3030 20 TURQUOISE	246	NEL06AF	
495		1236.93	-	-	-	-	-	-	-	249
496	5.00	1239.43	1.71	1.71	7.18	6.10	D3030 20 TURQUOISE	247	NEL06AF	
TOWER 7	179.91	1241.66								
OVERHANG	.00	1241.66								

TOTAL GPM = 423.38

MINIMUM RECOMMENDED REGULATOR INLET PRESSURE IS 11.00 PSI
 WITH GRADUATED ELEVATION OF .00 FT THE INLET PRESSURE IS 11.87 PSI FOR SPRINKLER 247
 THIS POSITION IS THE CLOSEST TO THE MINIMUM RECOMMENDED INLET PRESSURE

SUMMARY OF SPRINKLERS

247 D3030 20 TURQUOISE

SUMMARY OF REGULATORS

247 Nelson Int All-Flo 6 psi

249 PLUGS

TOTAL OF 247 REGULATORS

NOZZLE POSITION CHART

D3030 20 TURQUOISE

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, 48, 49, 50,
51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75,
76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100,
101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125,
126,

NOZZLE POSITION CHART

D3030 21 TURQUOISE

244

WESTERN KANSAS IRRIGATION

2707 JONES AVENUE
GARDEN CITY, KANSAS 67846

MAY 06, 2025
WISH-119625
K STATE RAINGER LINEAR

VALLEY 8000 LINEAR
NELSON D3030 SPRAY NOZZLES
NELSON 6 PSI REGULATORS
.75 I.D. PREMIUM BLUE FLEXIBLE HOSE
NO ENDGUN

Rotation time at 100% = 3.54 Hours Or 212 minutes

423.5 GPM @ 9 PSI

Installation Chart

Page 1

Out #	Drop Len	Sprk #	Noz Size	Reg	Out #	Drop Len	Sprk #	Noz Size	Reg	Out #	Drop Len	Sprk #	Noz Size	Reg	Out #	Drop Len	Sprk #	Noz Size	Reg	Out #	Drop Len	Sprk #	Noz Size	Reg		
1	PLUG				61	PLUG				56	PLUG	59	20	06AF	43	PLUG				30	PLUG	118	20	06AF		
2	PLUG				62	30	20	06AF		57	PLUG	60	20	06AF	44	PLUG	89	20	06AF	31	PLUG	119	20	06AF		
3	PLUG				63	PLUG				58	PLUG	61	20	06AF	45	PLUG	90	20	06AF	32	PLUG	120	20	06AF		
4		1	20	06AF	64	31	20	06AF		59	PLUG	62	20	06AF	46	PLUG	91	20	06AF	33	PLUG	121	20	06AF		
5	PLUG				TOWER 1	1	PLUG			60	PLUG	63	20	06AF	47	PLUG	92	20	06AF	34	PLUG	122	20	06AF		
6	PLUG				2	32	20	06AF		61	PLUG	64	20	06AF	48	PLUG	93	20	06AF	35	PLUG	123	20	06AF		
7	PLUG				3	PLUG				62	PLUG	65	20	06AF	50	PLUG	94	20	06AF	49	PLUG	124	20	06AF		
8	PLUG				4	33	20	06AF		63	PLUG	66	20	06AF	51	PLUG	95	20	06AF	50	PLUG	125	20	06AF		
9	PLUG				5	PLUG				64	PLUG	67	20	06AF	52	PLUG	96	20	06AF	51	PLUG	126	20	06AF		
10	PLUG				6	34	20	06AF		65	PLUG	68	20	06AF	53	PLUG	97	20	06AF	52	PLUG	127	20	06AF		
11	PLUG				7	PLUG				66	PLUG	69	20	06AF	54	PLUG	98	20	06AF	53	PLUG	128	20	06AF		
12	PLUG				8	35	20	06AF		67	PLUG	70	20	06AF	55	PLUG	99	20	06AF	54	PLUG	129	20	06AF		
13	PLUG				9	PLUG				68	PLUG	71	20	06AF	56	PLUG	100	20	06AF	55	PLUG	130	20	06AF		
14	PLUG				10	36	20	06AF		69	PLUG	72	20	06AF	57	PLUG	101	20	06AF	56	PLUG	131	20	06AF		
15	PLUG				11	PLUG				70	PLUG	73	20	06AF	58	PLUG	102	20	06AF	57	PLUG	132	20	06AF		
16	PLUG				12	37	20	06AF		71	PLUG	74	20	06AF	59	PLUG	103	20	06AF	58	PLUG	133	20	06AF		
17	PLUG				13	PLUG				72	TOWER 2	1	PLUG	75	20	06AF	60	PLUG	104	20	06AF	59	PLUG	134	20	06AF
18	PLUG				14	38	20	06AF		73	PLUG	76	20	06AF	61	PLUG	105	20	06AF	60	PLUG	135	20	06AF		
19	PLUG				15	PLUG				74	PLUG	77	20	06AF	62	PLUG	106	20	06AF	61	PLUG	136	20	06AF		
20	PLUG				16	39	20	06AF		75	PLUG	78	20	06AF	63	PLUG	107	20	06AF	62	PLUG	137	20	06AF		
21	PLUG				17	PLUG				76	PLUG	79	20	06AF	64	PLUG	108	20	06AF	63	PLUG	138	20	06AF		
22	PLUG				18	40	20	06AF		77	PLUG	80	20	06AF	65	PLUG	109	20	06AF	64	PLUG	139	20	06AF		
23	PLUG				19	PLUG				78	PLUG	81	20	06AF	66	PLUG	110	20	06AF	65	PLUG	140	20	06AF		
24	PLUG				20	41	20	06AF		79	PLUG	82	20	06AF	67	PLUG	111	20	06AF	66	PLUG	141	20	06AF		
25	PLUG				21	42	20	06AF		80	PLUG	83	20	06AF	68	PLUG	112	20	06AF	67	PLUG	142	20	06AF		
26	PLUG				22	43	20	06AF		81	PLUG	84	20	06AF	69	PLUG	113	20	06AF	68	PLUG	143	20	06AF		
27	PLUG				23	44	20	06AF		82	PLUG	85	20	06AF	70	PLUG	114	20	06AF	69	PLUG	144	20	06AF		
28	PLUG				24	45	20	06AF		83	PLUG	86	20	06AF	71	PLUG	115	20	06AF	70	PLUG	145	20	06AF		
29	PLUG				25	46	20	06AF		84	PLUG	87	20	06AF	72	PLUG	116	20	06AF	71	PLUG	146	20	06AF		
30	PLUG				26	47	20	06AF		85	PLUG	88	20	06AF	73	PLUG	117	20	06AF	72	PLUG	147	20	06AF		
31	PLUG				27	48	20	06AF		86	PLUG	89	20	06AF	74	PLUG				73	PLUG					
32	PLUG				28	49	20	06AF		87	PLUG	90	20	06AF	75	PLUG				74	PLUG					
33	PLUG				29	50	20	06AF		88	PLUG	91	20	06AF	76	PLUG				75	PLUG					
34	PLUG				30	51	20	06AF		89	PLUG	92	20	06AF	77	PLUG				76	PLUG					
35	PLUG				31	52	20	06AF		90	PLUG	93	20	06AF	78	PLUG				77	PLUG					
36	PLUG				32	53	20	06AF		91	PLUG	94	20	06AF	79	PLUG				78	PLUG					
37	PLUG				33	54	20	06AF		92	PLUG	95	20	06AF	80	PLUG				79	PLUG					
38	PLUG				34	55	20	06AF		93	PLUG	96	20	06AF	81	PLUG				80	PLUG					
39	PLUG				35	56	20	06AF		94	PLUG	97	20	06AF	82	PLUG				81	PLUG					
40	PLUG				36	57	20	06AF		95	PLUG	98	20	06AF	83	PLUG				82	PLUG					
41	PLUG				37	58	20	06AF		96	PLUG	99	20	06AF	84	PLUG				83	PLUG					
42	PLUG				38	59	20	06AF		97	PLUG	100	20	06AF	85	PLUG				84	PLUG					
43	PLUG				39	50	20	06AF		98	PLUG	101	20	06AF	86	PLUG				85	PLUG					
44	PLUG				40	51	20	06AF		99	PLUG	102	20	06AF	87	PLUG				86	PLUG					
45	PLUG				41	52	20	06AF		100	PLUG	103	20	06AF	88	PLUG				87	PLUG					
46	PLUG				42	53	20	06AF		101	PLUG	104	20	06AF	89	PLUG				88	PLUG					
47	PLUG				43	54	20	06AF		102	PLUG	105	20	06AF	90	PLUG				89	PLUG					
48	PLUG				44	55	20	06AF		103	PLUG	106	20	06AF	91	PLUG				90	PLUG					
49	PLUG				45	56	20	06AF		104	PLUG	107	20	06AF	92	PLUG				91	PLUG					
50	PLUG				46	57	20	06AF		105	PLUG	108	20	06AF	93	PLUG				92	PLUG					
51	PLUG				47	58	20	06AF		106	PLUG	109	20	06AF	94	PLUG				93	PLUG					
52	PLUG				48	59	20	06AF		107	PLUG	110	20	06AF	95	PLUG				94	PLUG					
53	PLUG				49	50	20	06AF		108	PLUG	111	20	06AF	96	PLUG				95	PLUG					
54	PLUG				50	51	20	06AF		109	PLUG	112	20	06AF	97	PLUG				96	PLUG					
55	PLUG				51	52	20	06AF		110	PLUG	113	20	06AF	98	PLUG				97	PLUG					
56	PLUG				52	53	20	06AF		111	PLUG	114	20	06AF	99	PLUG				98	PLUG					
57	PLUG				53	54	20	06AF		112	PLUG	115	20	06AF	100	PLUG				99	PLUG					
58	PLUG				54	55	20	06AF		113	PLUG	116	20	06AF	101	PLUG				100	PLUG					
59	PLUG				55	56	20	06AF		114	PLUG	117	20	06AF	102	PLUG				101	PLUG					
60	PLUG				56	57	20	06AF		115	PLUG	118	20	06AF	103	PLUG				102	PLUG					

WESTERN KANSAS IRRIGATION

2707 JONES AVENUE

GARDEN CITY, KANSAS 67846

MAY 06, 2025

WISH-119625

K STATE RAINGER LINEAR

VALLEY 8000 LINEAR
NELSON D3030 SPRAY NOZZLES
NELSON 6 PSI REGULATORS
D. PREMIUM BLUE FLEXIBLE HOSE
NO ENDGUN

Rotation time at 100% = 3.54 Hours Or 212 minutes

423.5 GPM @ 9 PSI

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
17	PLUG	4	20	06AF	5	PLUG	177	20	06AF	64	PLUG	207	20	06AF	51	PLUG	237	20	06AF
18	PLUG	148	20	06AF	6	PLUG	178	20	06AF	65	PLUG	208	20	06AF	52	PLUG	238	20	06AF
19	PLUG	149	20	06AF	7	PLUG	179	20	06AF	66	PLUG	209	20	06AF	53	PLUG	239	20	06AF
20	PLUG	150	20	06AF	8	PLUG	180	20	06AF	67	PLUG	210	20	06AF	54	PLUG	240	20	06AF
21	PLUG	151	20	06AF	9	PLUG	181	20	06AF	68	PLUG	211	20	06AF	55	PLUG	241	20	06AF
22	PLUG	152	20	06AF	10	PLUG	182	20	06AF	69	PLUG	212	20	06AF	56	PLUG	242	20	06AF
23	PLUG	153	20	06AF	11	PLUG	183	20	06AF	70	PLUG	213	20	06AF	57	PLUG	243	20	06AF
24	PLUG	154	20	06AF	12	PLUG	184	20	06AF	71	PLUG	214	20	06AF	58	PLUG	244	20	06AF
25	PLUG	155	20	06AF	13	PLUG	185	20	06AF	72	TOWER 6				59	PLUG	245	20	06AF
26	PLUG	156	20	06AF	14	PLUG	186	20	06AF	1	PLUG	215	20	06AF	60	PLUG	246	20	06AF
27	PLUG	157	20	06AF	15	PLUG	187	20	06AF	2	PLUG	216	20	06AF	61	PLUG	247	20	06AF
28	PLUG	158	20	06AF	16	PLUG	188	20	06AF	3	PLUG	217	20	06AF	62	PLUG	248	20	06AF
29	PLUG	159	20	06AF	17	PLUG	189	20	06AF	4	PLUG	218	20	06AF	63	PLUG	249	20	06AF
30	PLUG	160	20	06AF	18	PLUG	190	20	06AF	5	PLUG	219	20	06AF	64	PLUG	250	20	06AF
31	PLUG	161	20	06AF	19	PLUG	191	20	06AF	6	PLUG	220	20	06AF	65	PLUG	251	20	06AF
32	PLUG	162	20	06AF	20	PLUG	192	20	06AF	7	PLUG	221	20	06AF	66	PLUG	252	20	06AF
33	PLUG	163	20	06AF	21	PLUG	193	20	06AF	8	PLUG	222	20	06AF	67	PLUG	253	20	06AF
34	PLUG	164	20	06AF	22	PLUG	194	20	06AF	9	PLUG	223	20	06AF	68	PLUG	254	20	06AF
35	PLUG	165	20	06AF	23	PLUG	195	20	06AF	10	PLUG	224	20	06AF	69	PLUG	255	20	06AF
36	PLUG	166	20	06AF	24	PLUG	196	20	06AF	11	PLUG	225	20	06AF	70	PLUG	256	20	06AF
37	PLUG	167	20	06AF	25	PLUG	197	20	06AF	12	PLUG	226	20	06AF	71	PLUG	257	20	06AF
38	PLUG	168	20	06AF	26	PLUG	198	20	06AF	13	PLUG	227	20	06AF	72	PLUG	258	20	06AF
39	PLUG	169	20	06AF	27	PLUG	199	20	06AF	14	PLUG	228	20	06AF	TOWER 7				
40	PLUG	170	20	06AF	28	PLUG	200	20	06AF	15	PLUG	229	20	06AF					
41	PLUG	171	20	06AF	29	PLUG	201	20	06AF	16	PLUG	230	20	06AF					
42	PLUG	172	20	06AF	30	PLUG	202	20	06AF	17	PLUG	231	20	06AF					
43	PLUG	173	20	06AF	31	PLUG	203	20	06AF	18	PLUG	232	20	06AF					
44	PLUG	174	20	06AF	32	PLUG	204	20	06AF	19	PLUG	233	20	06AF					
45	PLUG	175	20	06AF	33	PLUG	205	20	06AF	20	PLUG	234	20	06AF					
46	PLUG	176	20	06AF	34	PLUG	206	20	06AF	21	PLUG	235	20	06AF					
47	PLUG	177	20	06AF	35	PLUG	207	20	06AF	22	PLUG	236	20	06AF					
48	PLUG	178	20	06AF	36	PLUG	208	20	06AF	23	PLUG	237	20	06AF					
49	PLUG	179	20	06AF	37	PLUG	209	20	06AF	24	PLUG	238	20	06AF					
50	PLUG	180	20	06AF	38	PLUG	210	20	06AF	25	PLUG	239	20	06AF					
51	PLUG	181	20	06AF	39	PLUG	211	20	06AF	26	PLUG	240	20	06AF					
52	PLUG	182	20	06AF	40	PLUG	212	20	06AF	27	PLUG	241	20	06AF					
53	PLUG	183	20	06AF	41	PLUG	213	20	06AF	28	PLUG	242	20	06AF					
54	PLUG	184	20	06AF	42	PLUG	214	20	06AF	29	PLUG	243	20	06AF					
55	PLUG	185	20	06AF	43	PLUG	215	20	06AF	30	PLUG	244	20	06AF					
56	PLUG	186	20	06AF	44	PLUG	216	20	06AF	31	PLUG	245	20	06AF					
57	PLUG	187	20	06AF	45	PLUG	217	20	06AF	32	PLUG	246	20	06AF					
58	PLUG	188	20	06AF	46	PLUG	218	20	06AF	33	PLUG	247	20	06AF					
59	PLUG	189	20	06AF	47	PLUG	219	20	06AF	34	PLUG	248	20	06AF					
60	PLUG	190	20	06AF	48	PLUG	220	20	06AF	35	PLUG	249	20	06AF					
61	PLUG	191	20	06AF	49	PLUG	221	20	06AF	36	PLUG	250	20	06AF					
62	PLUG	192	20	06AF	50	PLUG	222	20	06AF	37	PLUG	251	20	06AF					
63	PLUG	193	20	06AF	51	PLUG	223	20	06AF	38	PLUG	252	20	06AF					
64	PLUG	194	20	06AF	52	PLUG	224	20	06AF	39	PLUG	253	20	06AF					
65	PLUG	195	20	06AF	53	PLUG	225	20	06AF	40	PLUG	254	20	06AF					
66	PLUG	196	20	06AF	54	PLUG	226	20	06AF	41	PLUG	255	20	06AF					
67	PLUG	197	20	06AF	55	PLUG	227	20	06AF	42	PLUG	256	20	06AF					
68	PLUG	198	20	06AF	56	PLUG	228	20	06AF	43	PLUG	257	20	06AF					
69	PLUG	199	20	06AF	57	PLUG	229	20	06AF	44	PLUG	258	20	06AF					
70	PLUG	200	20	06AF	58	PLUG	230	20	06AF	45	PLUG	259	20	06AF					
71	PLUG	201	20	06AF	59	PLUG	231	20	06AF	46	PLUG	260	20	06AF					
72	PLUG	202	20	06AF	60	PLUG	232	20	06AF	47	PLUG	261	20	06AF					
1	PLUG	203	20	06AF	61	PLUG	233	20	06AF	48	PLUG	262	20	06AF					
2	PLUG	204	20	06AF	62	PLUG	234	20	06AF	49	PLUG	263	20	06AF					
3	PLUG	205	20	06AF	63	PLUG	235	20	06AF	50	PLUG	264	20	06AF					

PRECIPITATION CHART FOR FULL CIRCLE

WISH-119625

MAY 06, 2025

DEALER - WESTERN KANSAS IRRIGATION

IRRIGATOR - K STATE RAINGER LINEAR

TOTAL LENGTH PIPE = 1241.66 SYSTEM PRESSURE = 9 PSI
 GPM UNDER PIPE = 423.38 TOTAL GPM = 423.38
 ACRES UNDER PIPE = 46.24
 RANGE OF ENDGUN = .00
 GPM OF ENDGUN = .00
 ACRES UNDER ENDGUN = .00

MOTOR SIZE (HP) = .6
 LOADED MOTOR RPM = 1800
 CENTER GEAR BOX RATIO = 53
 WHEEL GEAR BOX RATIO = 52
 TIRE SIZE = 14.9 X 24
 LAST TOWER SPEED (FPM) = 7.68

PRECIPITATION BASED

% TIMER BASED

PRECIPITATION INCHES	% TIMER SETTING	TIME HOURS	% TIMER SETTING	PRECIPITATION INCHES	TIME HOURS
.07	100.00	3.54 - 212(min)	100.00	.07	3.54 - 212(min)
.10	71.56	4.94	90.00	.08	3.93
.20	35.78	9.89	80.00	.09	4.42
.25	28.63	12.36	70.00	.10	5.05
.30	23.85	14.83	60.00	.12	5.90
.40	17.89	19.77	50.00	.14	7.07
.50	14.31	24.71	45.00	.16	7.86
.60	11.93	29.66	40.00	.18	8.84
.70	10.22	34.60	35.00	.20	10.11
.75	9.54	37.07	30.00	.24	11.79
.80	8.95	39.54	25.00	.29	14.15
.90	7.95	44.49	20.00	.36	17.69
1.00	7.16	49.43	15.00	.48	23.58
1.25	5.73	61.79	10.00	.72	35.37
1.50	4.77	74.14	5.00	1.43	70.75

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.