

NOTE: ALL PLANTING AND IRRIGATION WORK AND MAINTENANCE, WITHIN THE SAMPLE ROAD AND NW 27TH AVENUE RIGHTS-OF-WAY, SHALL BE THE RESPONSIBILITY OF THE MATER DEVELOPER FOR THIS PROJECT



NUMBER	MODEL	SIZE	TYPE	GPM	HEADS	PIPE	WIRE	DESIGN PSI	FRICTION LOSS	PSI	PSI @ POC	PRECIP
1	Rain Bird PEB	1-1/2"	Turf Spray	57.12	22	268.8	492.9	30	2.9	37.01	38.39	1.54 in/h
2	Rain Bird PEB	1-1/2"	Turf Spray	28.6	22	258.5	471.3	30	3.55	37.2	37.57	0.88 in/h
3	Rain Bird PEB	1"	Bubbler	4.75	19	531.1	391.6	40	6.84	48.32	48.33	7.66 in/h
4	Rain Bird PEB	1-1/2"	Turf Spray	43.43	28	329.0	392.2	30	3.56	35.82	36.63	1.4 in/h
5	Rain Bird PEB	1-1/2"	Turf Spray	38.06	22	175.6	121.9	30	1.1	34.62	35	2.2 in/h
6	Rain Bird PEB	1-1/2"	Bubbler	0.75	3	199.3	111.6	40	0.04	43.95	43.95	7.66 in/h
7	Rain Bird PEB	1-1/2"	Turf Impact	42.92	4	215.2	71.6	65	0.26	68.79	69.09	0.68 in/h
8	Rain Bird PEB	1-1/2"	Turf Impact	42.92	4	280.9	87.7	65	0.85	69.38	69.75	1.14 in/h
9	Rain Bird PEB	1-1/2"	Turf Spray	42.23	20	420.8	40.1	30	3.43	36.95	37.1	1.07 in/h
10	Rain Bird PEB	1-1/2"	Shrub Spray	58.46	40	745.9	45.4	30	3.53	37.74	38.06	0.9 in/h
11	Rain Bird PEB	1"	Bubbler	11.25	45	1,069	49.2	40	4.72	46.65	46.67	7.66 in/h
12	Rain Bird PEB	1-1/2"	Turf Spray	57.04	25	388.9	90.8	30	1.74	35.85	36.52	0.86 in/h
13	Rain Bird PEB	2"	Turf Spray	67.26	41	599.6	269.0	30	3.01	37.61	40.45	1.27 in/h
14	Rain Bird PEB	1-1/2"	Shrub Rotor	25.67	12	378.1	408.7	25	2.3	31.03	31.76	0.57 in/h
15	Rain Bird PEB	1-1/2"	Shrub Rotor	18.76	19	448.5	524.5	25	4.3	33.1	33.62	0.62 in/h
16	Rain Bird PEB	1-1/2"	Bubbler	7.75	39	572.5	532.2	40	3.69	47.59	47.7	7.66 in/h
17	Rain Bird PEB	1-1/2"	Shrub Rotor	56.42	21	620.4	327.7	25	2.74	31.93	33.12	0.52 in/h
18	Rain Bird PEB	1"	Turf Spray	22.49	13	102.6	289.8	30	1.42	35.0	35.23	2.16 in/h
19	Rain Bird PEB	1"	Shrub Rotor	18.04	15	332.5	357.4	25	1.54	29.23	29.39	0.37 in/h
20	Rain Bird PEB	1"	Bubbler	5.25	21	754.8	367.2	40	3.71	45.42	45.43	7.66 in/h
	Common Wire						2,506					

## WATERING SCHEDULE

NUMBER	MODEL	TYPE	PRECIP	IN/WEEK	MIN/WEEK	GAL/WEEK	GAL/DAY
1	Rain Bird PEB	Turf Spray	1.54 in/h	1	39	2,228	
2	Rain Bird PEB	Turf Spray	0.88 in/h	1	69	1,973	
3	Rain Bird PEB	Bubbler	7.66 in/h	1	8	38	
4	Rain Bird PEB	Turf Spray	1.4 in/h	1	44	1,911	
5	Rain Bird PEB	Turf Spray	2.2 in/h	1	28	1,066	
6	Rain Bird PEB	Bubbler	7.66 in/h	1	8	6	
7	Rain Bird PEB	Turf Impact	0.68 in/h	0.5	45	1,931	
8	Rain Bird PEB	Turf Impact	1.14 in/h	0.5	27	1,159	
9	Rain Bird PEB	Turf Spray	1.07 in/h	1	57	2,407	
10	Rain Bird PEB	Shrub Spray	0.9 in/h	1	67	3,917	
11	Rain Bird PEB	Bubbler	7.66 in/h	1	8	90	
12	Rain Bird PEB	Turf Spray	0.86 in/h	1	70	3,993	
13	Rain Bird PEB	Turf Spray	1.27 in/h	1	48	3,228	
14	Rain Bird PEB	Shrub Rotor	0.57 in/h	1	105	2,695	
15	Rain Bird PEB	Shrub Rotor	0.62 in/h	1	97	1,820	
16	Rain Bird PEB	Bubbler	7.66 in/h	1	8	62	
17	Rain Bird PEB	Shrub Rotor	0.52 in/h	1	116	6,545	
18	Rain Bird PEB	Turf Spray	2.16 in/h	1	28	629.7	
19	Rain Bird PEB	Shrub Rotor	0.37 in/h	1	162	2,922	
20	Rain Bird PEB	Bubbler	7.66 in/h	1	8	42	
		TOTALS:			1,042	38,663	

CRITICAL ANALYSIS

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P.O.C. NUMBER: 01  
Water Source Information: 6" Cased Well

FLOW AVAILABLE	
Custom Max Flow:	150 GPM
Flow Available	150 GPM

PRESSURE AVAILABLE	
Static Pressure at POC:	65.00 PSI
Pressure Available:	65.00 psi

<b>DESIGN ANALYSIS</b>	
Maximum Station Flow:	67.26 GPM
Flow Available at POC:	150 GPM
Residual Flow Available:	82.74 GPM

Critical Station:	8
Design Pressure:	65 PSI
Friction Loss:	0.77 PSI
Fittings Loss:	0.08 PSI
Elevation Loss:	0 PSI
Loss through Valve:	3.53 PSI
Pressure Req. at Critical Station:	69.38 PSI
Loss for Fittings:	0.03 PSI
Loss for Main Line:	0.34 PSI
Loss for POC to Valve Elevation:	0 PSI
Loss for Backflow:	0 PSI
Critical Station Pressure at POC:	69.75 PSI
Pressure Available:	65 PSI
Residual Pressure Available:	-4.75 PSI

NOTE A:  
POINT OF CONNECTION SHALL BE 10hp CENTRIFUGAL PUMP AND 6" CASED WELL.  
VERIFY THE ACTUAL LOCATION, SIZE AND WATER PRESSURE IN THE FIELD PRIOR  
TO STARTING WORK. IF ANY OF THE POC INFORMATION SHOWN ON THESE  
DRAWING IS FOUND TO BE DIFFERENT THAN THE ACTUAL POC INFORMATION  
GATHERED IN THE FIELD, IMMEDIATELY NOTIFY THE LANDSCAPE ARCHITECT AND  
IRRI. IN NO CIRCUMSTANCES SHOULD THE CONTRACTOR FAIL TO VERIFY THE POC  
INFORMATION ANY CHANGES REQUIRED BY LOW PRESSURE OR VOLUME SHALL  
BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

MINIMUM PRESSURE REQUIRED	29.33 PSI @ POC
DESIGN WATER PRESSURE	65 PSI
MAXIMUM SYSTEM DEMAND	58.46 GPM

NOTE B:  
CONTROLLER IS ASSPECIFIED. CONTRACTOR TO VERIFY FINAL LOCATION AND  
ZONE CAPACITY OF CONTROLLER AND ELECTRICAL POC SHALL BE CONFIRMED  
WITH OWNER'S AUTHORIZED REPRESENTATIVE PRIOR TO STARTING WORK.

NOTE C:  
MAINLINE AND RELATED EQUIPMENT SHOWN WITHIN PAVING FOR CLARITY ONLY,  
ACTUAL MAINLINE AND RELATED EQUIPMENT LOCATION TO BE WITHIN PLANTERS  
AND A MINIMUM OF 18" OFF ADJACENT HARDSCAPE AND OTHER OBSTACLES  
TYP.

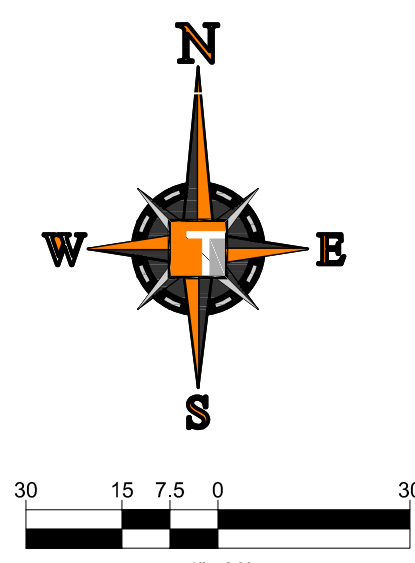
NOTE D:  
CONTRACTOR SHALL ADJUST ALL HEADS AS REQUIRED TO ACCOMMODATE ANY  
VERTICAL OBSTRUCTIONS THAT MAY OCCUR, INCLUDING BUT NOT LIMITED TO  
LIGHT POLES, FIRE HYDRANTS, ETC. VERIFY ALL HEAD LAYOUT WITH OWNER'S  
AUTHORIZED REPRESENTATIVE PRIOR TO STARTING WORK.

NOTE E:  
BUBBLERS AND LATERAL LINES ARE SHOWN WITHIN PAVING FOR CLARITY ONLY,  
ACTUAL LOCATION TO BE WITHIN PLANTER. BUBBLERS SHALL BE ALIGNED WITH  
TREES AND AS DIRECTED BY OWNER'S AUTHORIZED REPRESENTATIVE.  
CONFIRM ALL LAYOUT IN FIELD WITH OWNER'S AUTHORIZED REPRESENTATIVE  
PRIOR TO STARTING WORK.

EXISTING IRRIGATION MAINLINE TO BE PRESERVED IN PLACE WHEREVER POSSIBLE. CUT/CAP/REROUTE EXISTING SYSTEM AS NECESSARY TO INSURE 100% COVERAGE FOR REMAINDER OF SHOPPING CENTER

Michael D Grosswirth

Digitally signed by Michael D Grosswirth  
DN: c=US, o=THOMAS ENGINEERING GROUP LLC,  
ou=A01410C00000172  
0E31831F0000EFAC,  
cn=Michael D Grosswirth  
Date: 2022.08.22  
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**BROWARD COUNTY HIGHWAY CONSTRUCTION AND  
ENGINEERING DIVISION**

☐ **PLAN CONSISTENT  
WITH PLAT REQUIREMENTS**

☐ **PUBLIC RIGHT OF WAY APPROVAL  
FOR PAVING, GRADING AND DRAINAGE**

BY: \_\_\_\_\_ DATE: \_\_\_\_\_

**DOES NOT INCLUDE APPROVAL  
OF PAVEMENT MARKING & SIGNS**

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BUILDING PERMIT

PROJECT No.: F19004  
DRAWN BY: J  
CHECKED BY: MD  
DATE: 05-23-1  
CAD I.D.: F190044 - IRRIGATION


**FESTIVAL  
MARKETPLACE  
POMPANO BEACH, FL**

URBN DESIGN

**696 NE 125TH STREET  
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### IRRIGATION SCHEMATIC

SHEET NUMBER

### L-3.1