

### ZONE CHART

ZONE	GPM	HEAD TYPE	WATER USE	PRECIP. RATE (in. per hour)	RUNTIME (minutes)
1	31	Spray	HIGH	0.5	60
2	10	Spray	HIGH	0.5	60
3	15	Drip	MEDIUM	1.5	20
4	36	Spray	HIGH	0.5	60
5	32	Spray	HIGH	0.5	60
6	33	Drip	MEDIUM	1.5	20
7	45	Spray	HIGH	0.5	60
8	31	Spray	HIGH	0.5	60
9	8	Drip	MEDIUM	1.5	20
10	20	Drip	MEDIUM	1.5	20
11	22	Drip	MEDIUM	1.5	20
12	54	Spray	HIGH	0.75	40

This chart is provided as a general outline only and is based on providing approximately 1 inch of water per week. The contractor shall be responsible to set the run times on the controller based for the specific site conditions. This shall include, but not limited to soil, weather, plant needs and establishment period. The contractor shall be fully responsible to check equipment quantities and shall be responsible to install and include in the proposal all equipment shown on the plan. The plan overrides any errors in quantities.

### OWNER SUPPLIED EQUIPMENT

THE OWNER SHALL SUPPLY THE CONTROLLER, MASTER VALVE, FLOW METER AND RAIN SENSOR. THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AS PER THE WRITTEN SPECIFICATIONS AND MANUFACTURERS SPECIFICATIONS. IF THERE IS A CONFLICT WITH THE PLANS AND THE WRITTEN SPECIFICATIONS, THE CONTRACTOR SHALL FOLLOW THE WRITTEN SPECIFICATIONS.

#### IRRIGATION PARTS MATRIX

ITEM	PART NUMBER
CONTROLLER (24 STA. PEDESTAL)	HYDROPOINT0017
FLOW SENSOR (2")	HYDROPOINT0029
MASTER VALVE (2" GLOBE)	HYDROPOINT0038
RAIN SENSOR	HYDROPOINT0042

### LEGEND

	HUNTER PRS40 6" POP SPRAY HEAD (PROS-06-PRS 40-CV)
	TREE RING LAYOUT- REFER TO DETAIL
	OPERATION MONITOR- REFER TO THE DETAIL
	FLUSH VALVE
	NETAFIM TECHLINE CV 17MM DRIP TUBING OR HUNTER PROFESSIONAL DRIPLINE- EMITTERS EVERY 12". PLACE ROWS 12" APART IN ALL GROUND COVER BEDS. INSTALL A DOUBLE ROW ON ALL HEDGE ROWS. DRIP LINES ARE SHOWN PERPENDICULAR TO LANDSCAPE BEDS IN SOME AREAS FOR CLARITY PURPOSES ONLY. INSTALL DRIP TUBING ALONG THE LONGEST WIDTH OF THE PLANT BED. REFER TO ALL NOTES AND DETAILS ON THIS SHEET FOR INSTALLATION AND HEADER LOCATIONS
	SCH. 40 2" PVC MAINLINE-SEE PLAN FOR SIZES
	CLASS 200 PVC LATERAL LINE- SIZE AS SHOWN UNTIL A SMALLER SIZE IS SHOWN. MINIMUM SIZE OF 3/4". SIZE AS REQUIRED TO MAINTAIN PIPE VELOCITIES BELOW 5' PER SECOND. 1" AND SMALLER SHALL BE CLASS 315
	SCH. 40 SLEEVE (MINIMUM OF 24" DEPTH AND 2 SIZES LARGER THAN THE PIPE SIZE OR AS LABELED ON THE PLAN)
	RAINBIRD PEB ELECTRIC VALVE 2" OR SIZE AS SHOWN. FLOW INST. VALVE IN AN 11"x17" VALVE BOX AND COVER
	HUNTER ZONE CONTROL KIT- REFER TO THE DETAIL
	POINT OF CONNECTION TO A 2" IRRIGATION METER. REFER TO THE PLAN FOR THE EXACT LOCATION AND DETAILS
	HYDROPOINT CONTROLLER (OWNER SUPPLIED). THE CONTROLLER, RAIN SENSOR, FLOW SENSOR AND MASTER VALVE SHALL BE SUPPLIED BY THE OWNER. REFER TO THE IRRIGATION PARTS MATRIX ON THIS SHEET. THE CONTRACTOR SHALL BE RESPONSIBLE TO INSTALL ALL EQUIPMENT.
	INSTALL THE MASTER VALVE AND FLOW METER (OWNER SUPPLIED) INSTALL EACH IN A SEPARATE VALVE BOX. WIRE TO CONTROLLER. CLEARLY LABEL THE VALVE WITH EQUIP. TYPE. INSTALL THE FLOW METER ALONG A STRAIGHT SECTION OF PIPE WITH NO RESTRICTIONS. THE PIPE SHALL BE STRAIGHT FOR 10X PIPE SIZES UPSTREAM OF THE FLOW METER AND 5X PIPE SIZES DOWNSTREAM. REFER TO DETAILS AND WRITTEN SPECIFICATIONS.
	FLOW METER
	RAIN SENSOR (OWNER SUPPLIED) THE CONTRACTOR SHALL INSTALL

### IRRIGATION NOTES:

- THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING A COPY OF THE PROJECT SPECIFICATIONS PRIOR TO BIDDING. THE PROJECT SPECIFICATIONS ARE A PART OF THESE PLANS AND SHALL BE CONSULTED BY THE IRRIGATION CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE FOR IMPLEMENTING WORK AS SPECIFIED IN THE PROJECT SPECIFICATIONS AND ON THE PLANS.
- CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS, EQUIPMENT QUANTITIES, AND UTILITY LOCATIONS PRIOR TO BEGINNING WORK.
- CONTRACTOR SHALL NOTIFY LANDSCAPE ARCHITECT OF ANY DISCREPANCIES IN PLANS OR SPECIFICATIONS PRIOR TO BEGINNING OR CONTINUING WORK.
- THE CONTRACTOR SHALL MAKE NO SUBSTITUTIONS, DELETIONS, OR ADDITIONS TO THE PLAN WITHOUT APPROVAL OF THE LANDSCAPE ARCHITECT.
- ALL CONSTRUCTION SHALL CONFORM TO CITY, COUNTY, STATE AND FEDERAL REQUIREMENTS. IT SHALL BE THE RESPONSIBILITY OF THE IRRIGATION CONTRACTOR TO ENSURE THAT ALL IRRIGATION EQUIPMENT MEETS GOVERNMENT REGULATIONS. CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR OBTAINING ANY NECESSARY PERMITS OR APPROVALS.
- THIS PLAN IS INTENDED TO BE USED AS A GUIDE. FIELD MODIFICATIONS MAY BE NECESSARY TO IMPLEMENT PLAN.
- CONTRACTOR SHALL VERIFY ALL AVAILABLE WATER PRESSURE BEFORE BEGINNING INSTALLATION. CONTRACTOR SHALL NOTIFY LANDSCAPE ARCHITECT IF AVAILABLE WATER PRESSURE EXCEEDS 5 PSI OVER OR UNDER THAN AVAILABLE WATER PRESSURE.
- IRRIGATION SYSTEMS CONNECTED TO POTABLE WATER SUPPLY, SHALL HAVE A BACKFLOW PREVENTER INSTALLED.
- WHERE APPLICABLE IRRIGATION HEADS ARE TO BE ADJUSTED FOR COMPLETE COVERAGE WITH MINIMUM OVER SPRAY BEYOND LANDSCAPE AREAS.
- EXISTING TREES TO REMAIN ARE TO BE PROTECTED FROM DAMAGE. DO NOT TRENCH OR EXCAVATE WITHIN THE CRITICAL ROOT ZONE OF ANY TREE.
- IRRIGATION LATERAL LINES, MAIN LINES AND EQUIPMENT MAY BE SHOWN OUTSIDE PROPERTY LINES ON THIS PLAN. ALL IRRIGATION LINES AND EQUIPMENT ARE TO BE WITHIN AND INSTALLED WITHIN THE LIMITS OF THE PROPERTY LINE.
- ALL IRRIGATION SLEEVINGS TO BE THE RESPONSIBILITY OF THE IRRIGATION CONTRACTOR. ELECTRICAL WIRES FOR IRRIGATION VALVES AND IRRIGATION LINES ARE TO BE PLACED IN SEPARATE SLEEVINGS. SEE SLEEVING DETAIL.
- SUPPLY LINE AND METER TO BE PROVIDED BY GENERAL CONTRACTOR. BACKFLOW PREVENTER TO BE PROVIDED BY IRRIGATION CONTRACTOR. IRRIGATION CONTRACTOR'S POINT OF CONNECTION TO BEGIN AFTER THE IRRIGATION WATER METER.
- IRRIGATION CONTRACTOR SHALL REVIEW WINTERIZATION PROCEDURES FOR IRRIGATION SYSTEM WITH OWNERS REPRESENTATIVE.
- ALL PLANT MATERIAL IN TREE HOLDING AREAS SHALL BE MANUALLY WATERED/IRRIGATED TO KEEP MOIST UNTIL PLANTED.

### NOZZLE CHART

LETTER	PRODUCT SPEC.	G.P.M. @ 40PSI	RADIUS	RADIUS/ANGLE	ZONE LABELS
A	MP2000	1.47	19'	FULL CORNER	360
B	MP CORNER	45	14'	CORNER	105
C	MP CORNER	19	14'	CORNER	45
D	MP2000	74	19'	HALF CORNER	180
E	MP2000	40	19'	QUARTER	90
G	MP STRIP	22	5' X 15'	END STRIP	90
H	RAINBIRD SQ-H	23	4.5'	HALF PATTERN	180
J	MP1000	59	14'	THREE QTR	270
K	MP1000	75	14'	FULL	360
M	MP SIDE STRIP	44	6' X 30'	SIDE STRIP	90
P	MP3000	2.88	30'	HALF PATTERN	180
R	MP1500	49	14'	QUARTER	90
S	MP SR SERIES	42	6'	HALF	180
Y	MP1000	37	14'	HALF	180
V	MP3000	86	30'	QUARTER	90
W	MP3000	1.82	30'	HALF	180
X	MP3000	2.73	30'	THREE QTR	270
Y	MP3000	3.64	30'	FULL	360
Z	MP2000	1.10	19'	THREE QTR	270

THE NOZZLES LISTED SHOW THE TYPE OF MP ROTATOR NOZZLE THAT SHOULD BE USED. THE CONTRACTOR SHOULD INSTALL THE MP1000, MP2000, MP3000 OR SPECIALLY NOZZLE IN EACH HEAD AS SHOWN BY THE LETTER BESIDE THE HEAD ON THE PLAN. THE GPM, DISTANCE AND ANGLE ON THE NOZZLE CHART ARE APPROXIMATE. THE CONTRACTOR SHALL ADJUST ALL NOZZLES TO PROVIDE THE 100% COVERAGE, BUT LIMIT OVERTHROW ON TO BUILDINGS, WALLS, PAVEMENT, ETC. THE HEADS SHALL BE SPACED AS PER THE PLAN. SCALE THE PLAN FOR DISTANCE. DO NOT ASSUME THAT ALL HEADS ARE SPACED AS PER CONVENTIONAL SPRAY HEADS. THE PRECIPITATION RATE FOR THESE NOZZLES IS LESS THAN A CONVENTIONAL SPRAY NOZZLE. FOLLOW THE ZONE CHART FOR AN APPROXIMATE RUN TIME FOR EACH ZONE, BUT SET THE RUN TIME ON THE CONTROLLER BASED ON THE SPECIFIC SITE CONDITIONS.

FOR INFORMATION ONLY



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SEMINOLE COUNTY

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 CERTIFICATE OF AUTOMATICATED PROFESSIONAL REGISTRATION

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DESIGNER: LWS  
 CHECKED: JSL  
 DATE: APR. 17, 2017

RECORD DRAWING  
 THIS RECORD DRAWING IS A PART OF THE ORIGINAL SET OF PLANS AND SHALL BE KEPT ON FILE BY THE CONTRACTOR FOR A PERIOD OF FIVE YEARS FROM THE DATE OF COMPLETION OF THE PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ANY NECESSARY PERMITS OR APPROVALS. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR OBTAINING ANY NECESSARY PERMITS OR APPROVALS.

Walmart #70052-NEW-F-L-Apopka (Bainbridge Beach)  
 850 BAINBRIDGE BEACH DRIVE, SEBASTIAN COUNTY, FLORIDA  
 TAURUS INVESTMENT HOLDINGS, INC.

IRRIGATION PLAN

1979-2015  
 CONSULTING ENGINEERS & ARCHITECTS  
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