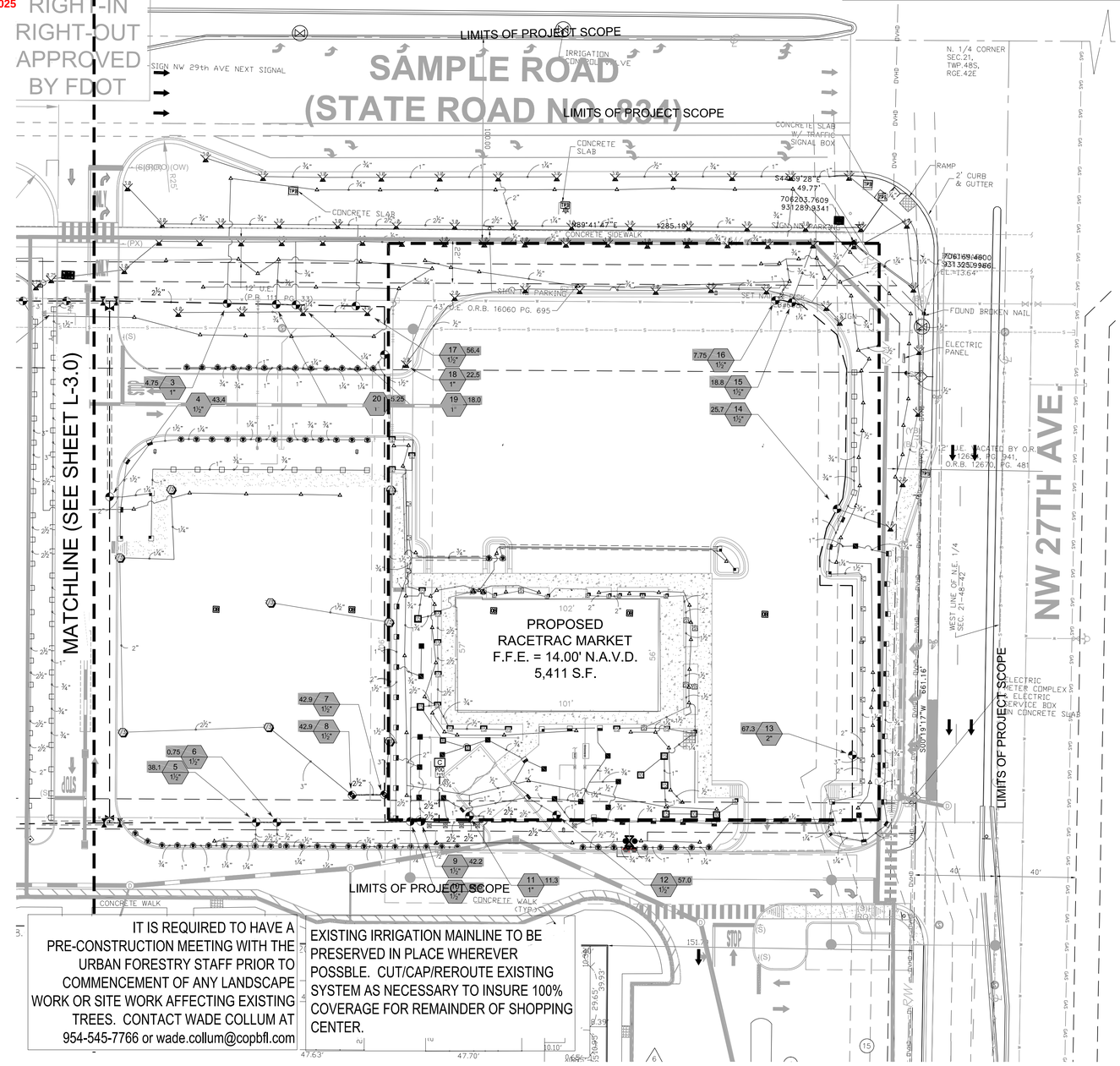
DRC
PZ22-12000027
07/02/2025

PROP(
RIGHT-IN
RIGHT-OUT
APPROVED
BY FDOT

NOTE: TREE PLANTED IN SAMPLE ROAD RIGHT-OF-WAY WILL REQUIRE A SEPARATE FDOT LANDSCAPE PERMIT

REFER TO SHEET L-3.2 FOR IRRIGATION NOTES AND SHEET L-3.3 FOR IRRIGATION DETAILS.

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



IT IS REQUIRED TO HAVE A PRE-CONSTRUCTION MEETING WITH THE URBAN FORESTRY STAFF PRIOR TO COMMENCEMENT OF ANY LANDSCAPE WORK OR SITE WORK AFFECTING EXISTING TREES. CONTACT WADE COLLUM AT 954-545-7766 or wade.collum@copbfl.com

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

VALVE SCHEDULE

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	6.64	48.32	48.33	7.66 in/h
4	Rain Bird PEB	1-1/2"	Turf Spray	43.43	28	329.0	356.2	30	2.28	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	4.2	33.1	33.62	0.62 in/h
16	Rain Bird PEB	1-1/2"	Bubbler	7.75	31	572.5	532.7	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	31.8	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

Generated:	2022-08-18 17:07
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
DESIGN ANALYSIS	
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 IRRIGATION CONSULTANT. 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.

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 09:07:15 -04'00'

N
W E
S
30 15 7.5 0 30
1"= 30'

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

DRC
PZ22-12000027
10/5/2022

DRC
PZ22-12000027
10/01/2025

B.C.H.C.E.D. REF. NO. 200617002 H

DRC
PZ22-12000027
12/03/2025

THOMAS ENGINEERING GROUP
CIVIL ENGINEERS - PROJECT MANAGERS - LAND PLANNING - LANDSCAPE ARCHITECTS
6300 NW 31ST AVENUE FT. LAUDERDALE, FL 33309 P: 954-202-7000
4950 W. KENNEDY BLVD. SUITE 600 TAMPA, FL 33609 P: 813-379-4100
125 W INDIANTOWN RD. SUITE 206 JUPITER, FL 33458 P: 561-203-7503

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REVISIONS:

REV:	DATE:	COMMENT:	BY:

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BUILDING PERMIT

PROJECT No.: F190044
DRAWN BY: JV
CHECKED BY: MDG
DATE: 05-23-19
CAD I.D.: F190044 - IRRIGATION PLANS\RETAIL & RACETRAC

PROJECT:

FESTIVAL MARKETPLACE POMPANO BEACH, FL

FOR

URBN DESIGN
696 NE 125TH STREET MORTH MIAMI, FL 33415

THOMAS ENGINEERING GROUP
6300 NW 31ST AVENUE
FORT LAUDERDALE, FL 33309
PH: (954) 202-7000
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MICHAEL D. GROSSWIRTH
LA 6666871
STATE REGISTERED LANDSCAPE ARCHITECT
August 22, 2022
FLORIDA REGISTRATION No. LA6666871
FLORIDA BUSINESS LICENSE No. 27528

SHEET TITLE:

IRRIGATION SCHEMATIC

SHEET NUMBER:

L-3.1

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY MICHAEL D. GROSSWIRTH, LA6666871 ON 2022-08-19

PLOTTED: Monday, August 22, 2022, 8:42 AM by Laura Stewart
J:\URBN DESIGN\F190044 - FESTIVAL MARKETPLACE\DWG\SITE PLANS\2021-06-04 RETAIL AND RACETRAC\LANDSCAPE\RETAIL & RACETRAC ~ 08-18-2022\F190044 ~ IRRIGATION PLAN-RETAIL & RACETRAC ~~~~~3-LAYOUT- L-3.1 IRRIGATION PLAN