

GENERAL SPRINKLER NOTES:

- IRRIGATION CONTRACTOR IS RESPONSIBLE TO COORDINATE WITH ALL OTHER DRAWINGS OF THE PROJECT TO RESOLVE COORDINATION AND POTENTIAL CONFLICTS WITH EXISTING UNDERGROUND PIPES AND UTILITIES OR WORK BY OTHERS, PRIOR TO ANY WORK BEING DONE. MOST MAIN LINES SHARE ALIGNMENT WITH PERIMETER UTILITY EASEMENTS & SIGNIFICANT LANDSCAPE BUFFER PLANTINGS. AVOID CONFLICTS WITH FOOTBALL AREA OF TREES.
2. THE IRRIGATION CONTRACTOR IS RESPONSIBLE TO CALL FOR LOCATIONS AND TO COORDINATE WITH LOCAL AGENCIES TO IDENTIFY LINES, PIPES, CABLES OF EASEMENTS WITHIN THE EFFECTED AREAS, PRIOR TO WORK. ALL WORK SHALL CONFORM TO THE FLORIDA BUILDING CODE PLUMBING SECTION, APPENDIX F FOR IRRIGATION.
3. THE INSTALLING CONTRACTORS ARE RESPONSIBLE FOR THEIR OWN LICENSE, AND PERMITS WITHIN THE MUNICIPALITY AND MIAMI-DADE COUNTY AS WELL AS THE RELATED FEES WITHIN THE CONTRACT PRICE. PERMITS FOR SOUTH FLORIDA WATER MANAGEMENT DISTRICT ARE PULLED BY THE OWNER. (QUALIFIED APPLICANT 104.6-1.2) PERMITS WILL ONLY BE ISSUED TO QUALIFIED PEOPLE OR FIRMS. QUALIFICATION SHALL BE IN ACCORDANCE WITH; THE RULES OF THE BROWARD COUNTY CENTRAL EXAMINING BOARD, ORDINANCE 78-9 AND CHAPTER 9 OF THE COUNTY CODES; STATE DBPR, CHAPTER 489, PART 1 OF FLORIDA STATE STATUTES; OR OTHER EXAMINING BOARDS APPROVED BY THE BROWARD BOARD OF RULES AND APPEALS.
4. THE HORIZONTAL CONTROL FOR THE PROJECT WILL BE ESTABLISHED BY THE GENERAL CONTRACTOR WHO WILL LOCATE AND STAKE PROPERTY LINES, ALL RECORDED EASEMENTS, LIMIT OF WORK LINE, LIGHT POLES, PAVED AREAS, PARKING ISLANDS, DRAINAGE STRUCTURES AND RELATED FEATURES.
5. ALL MAINS AND SECTION LINES ARE SHOWN SCHEMATICALLY. LINES WHERE EVER POSSIBLE SHALL BE CONSOLIDATED INTO COMMON TRENCHES. THE CONTROL WIRES IN GRAY ELECTRICAL CONDUIT SHALL BE LOCATED UNDER THE MAIN FOR PROTECTION.
6. ALL MAIN LINES SHALL BE BURIED A UNIFORM 24" BELOW GRADE. ALL SECTION LINES SHALL BE INSTALLED A MINIMUM OF 12" BELOW GRADE.
7. SLEEVES UNDER ROADWAYS MAY BE DEEPER THAN 24" TO COORDINATE WITH ROADWAY CONSTRUCTION REQUIREMENTS OR TO COORDINATE WITH UTILITIES. SLEEVES UNDER PAVED PARKING AREAS WILL TYPICALLY MAINTAIN A 24" DEPTH TO ALIGN WITH MAIN LINE INSTALLATION DEPTHS.
8. ALL MAIN LINE PIPE SHALL BE SCHEDULE 40 PVC NEW PIPE ONLY. TYPE 1, PIPE, ASTM D-2241.
9. ALL SECTION LINE PIPE FROM 3/4" TO 2" I.D. SHALL BE SCHEDULE 40 PVC NEW PIPE ONLY. TYPE 1, PIPE, ASTM D-2241. ALL SECTION LINE PIPE FROM 2.5" TO 6" SHALL BE SDR-26 (160 PSI) PVC 1120 TYPE 1 PIPE.
10. ALL PIPING IS SIZED TO MEET DESIGN CALCULATIONS FOR GPM FLOW AND FOR A PRE-DESIGNED CUSHION TO ALLOW FOR NOMINAL REPAIRS AND FOR MODIFICATIONS TO THE SYSTEM WHICH OCCUR OVER TIME IN NORMAL OPERATION OF SYSTEM. LINE SHALL BE INSTALLED TO THE SIZE AS SHOWN IN PLANS. DOWN SIZING LINES IS NOT PERMITTED WITHOUT A CHANGE ORDER AND A REVISION OF THE DRAWING. THE CONTRACTOR MAY SUGGEST REVISION OR VALUE ENGINEERING WITH THE LANDSCAPE ARCHITECT FOR REVIEW AND WRITTEN APPROVALS PRIOR TO IMPLEMENTATION.
11. ALL PVC SOLVENT WELDED ASSEMBLY SHALL BE CLEANED AND PRIMED PRIOR TO THE SOLVENT WELD. ALL PVC CEMENT SHALL CONFORM TO ASTM D-2564. ALL PVC PIPE CLEANER SHALL CONFORM TO ASTM F-656.
12. ALL WORK SHALL BE DONE IN A GOOD WORKMAN-LIKE MANNER AND IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS AND STANDARDS OF THE FLORIDA IRRIGATION SOCIETY, BROWARD CHAPTER AND FLORIDA BUILDING CODE APPENDIX F.
13. ALL CONTROL WIRES SHALL BE U.L. APPROVED DIRECT BURIAL TYPE PLASTIC COATED WIRE, AWG SIZE MINIMUM 14 GAUGE SOLID OR 12 STRAND WIRE. ALL SPLICES SHALL BE MADE WITH RAINBIRD ST-03 SNAP TIGHT WATERPROOF CONNECTORS. ALL WIRES SHALL BE MARKED WITH DURABLE TAGS IDENTIFYING EACH AND ALL WIRES.
14. ALL CONTROL WIRES SHALL BE INSTALLED IN U.L. APPROVED SIZE OF CLASS 160 GRAY ELECTRICAL CONDUIT WITH SWEEPS UP INTO A PULL BOX OR VALVE BOX ASSEMBLY.
15. THE IRRIGATION CONTRACTOR SHALL BRING THE CONTROL WIRES TO THE TIMECLOCK/CONTROLLER AND CONNECT ALL WIRING ON THE LOW VOLTAGE SIDE OF THE PANEL. ALL HIGH VOLTAGE WIRING AND POWER IS PROVIDED BY THE PUMP MANUFACTURER AND THE OWNER. LABEL ALL CONTROL WIRES AT THE PANEL TO CONFORM TO THOSE IN THE FIELD.
16. ALL VALVE BOXES AND PULL BOXES FOR CONTROL WIRES SHALL BE AN AMETEX BOX, MINIMUM 10" DIAMETER ROUND BOX. ONE PER EACH VALVE.
17. EACH LENGTH OF MAIN LINE BETWEEN THE PUMP STATION AND EACH ISOLATION VALVE SHALL BE PRESSURE CHECKED AND INSPECTED BY THE DESIGN PROFESSIONAL. PRESSURE MUST MAINTAIN A MINIMUM OF 5 PSI LOSS IN 24 HOURS FROM A 100 PSI PRIMING FOR ANY GIVEN TEST LENGTH.
18. THE SPRINKLER CONTRACTOR SHALL COORDINATE WITH THE WATER DEPARTMENT TO INSTALL THE BACK FLOW PREVENTOR ACCORDING TO LOCAL CODES & STANDARDS ADJUSTING TO SCHEDULES OF EQUIPMENT, PIPING, MATERIALS FOR SIGN OFF AND APPROVALS. CODE REQUIREMENTS TAKE PRECEDENT OVER DETAILS & SPECIFICATIONS.
19. THE FULL SPECTRUM OF NOZZLES, NOZZLE ANGLES, FULL CIRCLE, PART CIRCLE & ADJUSTABLE PATTERN HEADS IS TO BE EMPLOYED IN THIS CONSTRUCTION. THE CONTRACTOR SHALL ADJUST THE SYSTEM FOR COMPLETE COVERAGE WITH THE MANUFACTURERS RECOMMENDED 100% OVERLAP, AND UTILIZE THE ADJUSTABLE PATTERN HEADS TO AVOID OVERSPRAY TO PAVED SURFACES. THE CONTRACTOR IS ALSO TO INCLUDE IN HIS BID AND PROVIDE FOR THE INSTALLATION OF ANY ADDITIONAL HEADS REQUIRED TO BE ADDED TO INSURE COVERAGE FOR THE PROJECT.
20. ALL HEADS SHALL BE SET USING THE MANUFACTURERS RECOMMENDED SWNG JOINT ASSEMBLIES INCLUDING SPIRAL BARB FITTINGS AND THICK WALL PIPE OR SUBMIT SHOP DRAWINGS FOR APPROVAL.
21. ALL MATERIALS ARE GUARANTEED FREE FROM DEFECTS AND ALL WORKMANSHIP AND INSTALLATION ARE GUARANTEED FOR THE COST OF FULL REPLACEMENT FOR A PERIOD OF ONE YEAR FROM THE TIME OF COMPLETION AND FINAL ACCEPTANCE OF EACH SEPARATE, COMPLETED, AND FULLY OPERATIONAL SYSTEM.

IRRIGATION EQUIPMENT GRAPHIC KEY:

	RAINBOW 5006 SERIES, F, H, O, 6" OR 12" COMMERCIAL ROTOR BODY, w/ SCREEN AND NOZZLES TO TYPE SPACING, ULTILEZ FULL SPECTRUM OF MER-30 NOZZLES AVAILABLE BY MANUFACTURER TO PROVIDE FULL COVERAGE WITHOUT OVER-SPRAY ON PAVEMENT. OPERATING POUNDS PER SQUARE INCH (PSI) AT 30, 40, ALL NOZZLES WITH MATCHED PRECIPITATION RATES.	F = 0.62"/HR TO = 0.86"/HR H = 0.86"/HR O = 0.86"/HR
	RAINBOW PRS - 1800 SERIES, F, TO, H, O, 6" OR 12" COMMERCIAL POP-UP BODY, w/ SCREEN AND NOZZLES TO TYPE SPACING, ULTILEZ FULL SPECTRUM OF NOZZLES AVAILABLE BY MANUFACTURER TO PROVIDE FULL COVERAGE WITHOUT OVERSPRAY ON PAVEMENT. NOZZLES w/ SEAMATIC INSULATING MATERIAL NOZZLES MATCHED POUNDS PER SQUARE INCH (PSI) AT 30.	F = 1.83"/HR TO = 1.83"/HR H = 1.83"/HR O = 1.83"/HR
	RAINBOW 15SST, 15 EST, 6" COMMERCIAL POP-UP BODY, w/ SCREENS AND NOZZLES TO TYPE SPACING, ULTILEZ FULL SPECTRUM OF NOZZLES AVAILABLE BY MANUFACTURER TO PROVIDE FULL COVERAGE WITHOUT OVERSPRAY ON PAVEMENT. NOZZLES SERIES 9 SIDE STRIPS, OPERATING 30 PSI	EST = 1.83"/HR CSI = 1.83"/HR SST = 1.83"/HR
	2_HP_PUMP: SEE PLAN FOR LOCATION.	65 PSI PER FLOW 60-90 PSI @ 6"
	RAINBOW ESP-24-LX, 24 STATION OPERATING SPECIFICATIONS, BATTERIES, AS REQUIRED FOR A FULLY OPERATIONAL SYSTEM. ALL VALVES OBTAINED FROM THE SAME PHASE OF CONSTRUCTION. CONTROLLER INCLUDED WITH PUMP STATION ASSEMBLY AS A CLOCK START SYSTEM. VARIABLE SPEED DRIVE PUMPS.	
	RAINBOW RAIN SWITCH AND BYPASS SWITCH. (SEE DETAILS) MOUNTED IN LOGICAL LOCATION AWAY FROM OVERHEAD OBSTRUCTIONS.	
	RAINBOW PESP-Series VALVES FOR LAKE WATER SOURCE, 24V ELECT., GLASS FILLED NYLON BODY W/ P PRESSURE REGULATOR, STAINLESS STEEL SCRUBBER VALVE, GLOBE VALVE TYPE. INSTALLED IN A VALVE BOX ASSEMBLY AS PER DETAILS.	1.0"/W 26-34 GPM 1.5"/W 30-54 GPM 2.0"/W 45-90 GPM
	VALVE BOXES SHALL BE AMETEK OR APPROVED EQUAL, STANDARD 12" ROUND FOR ALL LOCATIONS. ALL VALVES, FILTERS, AND SIMILAR ASSEMBLIES AS SHOWN IN DETAILS WILL REQUIRE A SEPARATE VALVE BOX WHETHER SHOWN ON PLANS OR NOT. IT IS IMPLIED THAT EACH ASSEMBLY REQUIRES ITS OWN SEPARATE VALVE BOX ASSEMBLY.	
	IRRIGATION LATERAL LINE, SIZE AS NOTED ON PLANS. ALL CONTROL VALVES SHALL BE INSTALLED IN GRAY CONDUIT IN SAME TRENCH WITH LATERAL LINES.	ALL SECTION LINE PIPE BURIED UNIFORM 12" DEPTH
	MAINLINE AS SHOWN ON PLANS, CONTRACTOR SHALL BE RESPONSIBLE TO FIELD VERIFY EXACT SIZE, LOCATION AND PRESSURE AVAILABILITY OF EXISTING MAINLINE.	ALL MAIN LINE PIPE BURIED TO MIN. 24" DEPTH
	----- SLEEVE FOR IRRIGATION MAIN LINE, SECTION LINES AND CONDUITS. SEE NOTES ON PLAN AND SEELE SIZING CHART.	
	THE ALPHABETICAL GROUP INDICATES THE PARTICULAR CONTROLLER (BUILDING OR MASTER). THE NUMERICAL GROUP INDICATES THE PARTICULAR ZONE NUMBER OR ZONE. SEE VALVE SIZING CHART FOR SCHED 40, 1.5" OR 2" VALVE SIZE. THE LOWER NUMERICAL GROUP INDICATES THE TOTAL NUMBER OF GALLONS PER MINUTE (GPM) THAT THE ZONE IS DESIGNED FOR, CORRESPONDING TO THE APPROPRIATE SIZE VALVE. SEE VALVE SIZING CHART INFORMATION.	
	DEPTH OF COVER FOR PIPING TO COMPLY WITH F.P.C. APPENDIX F PART Y (A)(6) AS A MINIMUM SEE DETAILS THIS PLAN SET FOR HIGHER STANDARD REQUIRED FOR THIS PROJECT.	
	TESTING AND INSPECTIONS ARE REQUIRED AS PER F.P.C. APPENDIX PART VI.	

Know what's below.
Call before you dig

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4/7/21

[illegible]

DATE: 09-21-20

SCALE: 1" = 20'

DRAWING BY: AD

DESIGNED BY: AD, BJF

POMPANO BEACH, FLORIDA

IRRIGATION PLAN:

PROJECT: 2240 NW 22ND ST

PROJECT NO.
19-107

SHEET:
IR-1 of 1

DN.
Laub
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THOMAS J LAUBENTHAL Date: 2020.09.22
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