LEHIGH ACRES COMMUNITY PARK BALLFIELD IRRIGATION RENOVATIONS

LEHIGH ACRES, FLORIDA

Prepared for:

Facilities Construction & Management 1500 Monroe Street Fort Myers, Florida 33901 Cell 239-823-4618 Office 239-533-8518

> Lee County Parks & Recreation 3410 Palm Beach Boulevard Fort Myers, Florida 33916 Phone - 239-533-7446

INDEX OF SHEETS

COVER SHEET COVER

IRRIGATION MASTER PLAN & NOTES

IRRIGATION PLAN IRRIGATION PLAN

IRRIGATION DETAILS & LEGEND

Florida PREPARED FOR: CONSULTANT:

DAVID M. JONES, JR AND ASSOCIATES, INC

LANDSCAPE ARCHITECTS AND PLANNERS

2221 McGregor Blvd. Fort Myers, Florida 33901 PHONE: (239) 337-5525

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.A. LICENSE: LC COOOO6

PROJECT INFORMATION

LEHIGH ACRES

COMMUNITY

PARK

BALLFIELD

IRRIGATION RENOVATION

Lehigh Acres,

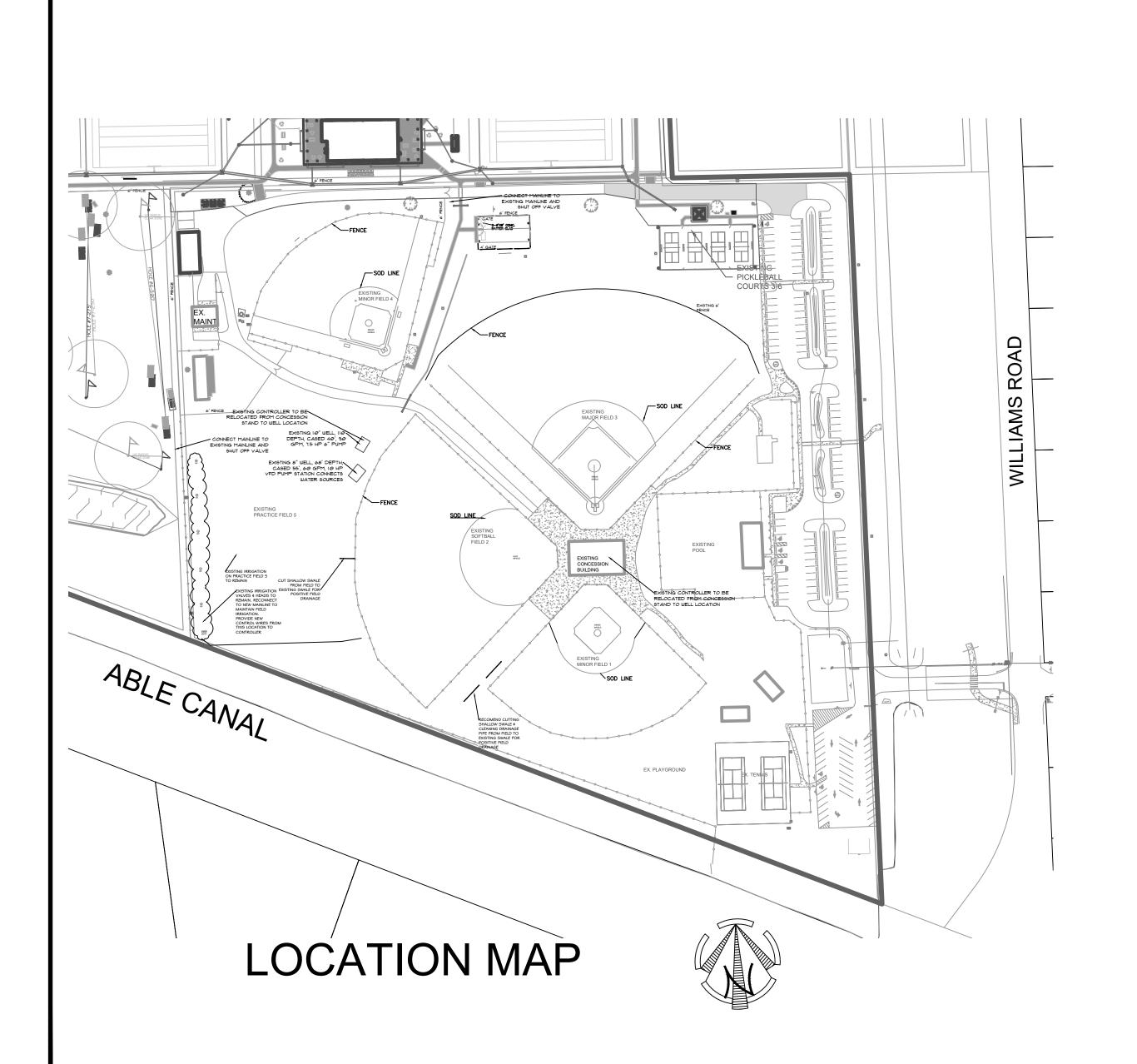
DESIGN PROFESSIONAL

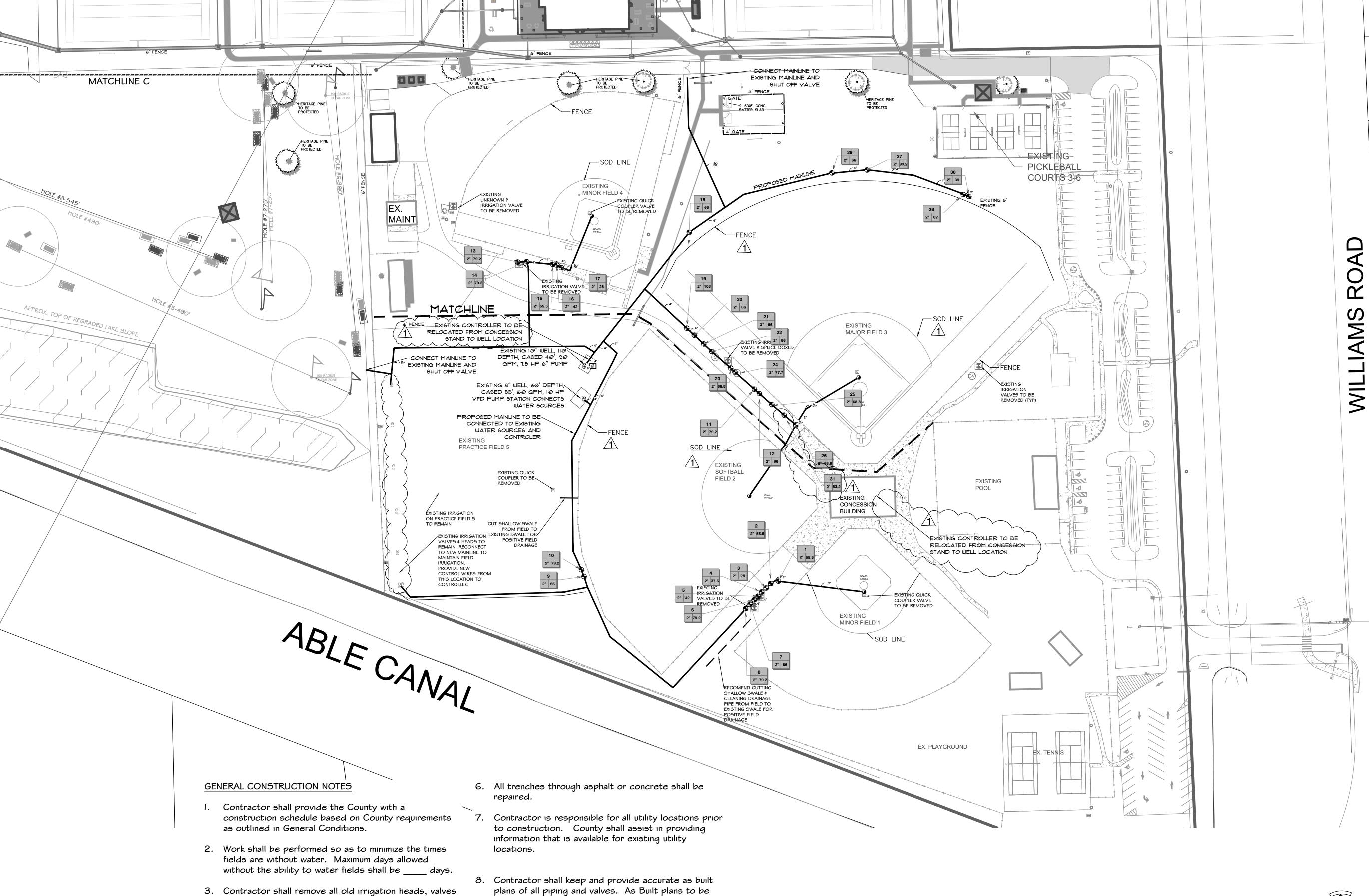
PROJECT NO.	221099
PROJECT MJR:	Greg Diserio
FILE NAME:	LEHIGH PARK IRRIG
DESIGNER:	GJD
CAD TECH:	
CHECKED BY:	
ISSUED FOR:	BIDDING

1 APRIL 17, 2024 ADDENDA

IRRIGATION RENOVATIONS COVER SHEET

Cover





available at time of substantial completion inspection.

9. Refer to specifications and County provided

documents to be included in the work.

and valve boxes. All removed equipment to be

4. Contractor shall flag in the field all head and valve

bermuda sod. Repair all ruts and top dress with sand

as necessary to restore fields to playing conditions.

5. Contractor to repair all trenches and sod with

provided to the County.

locations for Owners approval.

MASTER IRRIGATION PLAN

NOTE: CONTRACTOR SHALL FIELD FLAG ALL HEAD AND

INSTALLATION.

VALVE LOCATIONS FOR THE COUNTY'S APPROVAL PRIOR TO

GREGORY J. DISERIO, RLA RLA NO. 840 DATE: STATE OF FLORIDA

PROJECT NO. 221099 Greg Diserio PROJECT MJR: FILE NAME: LEHIGH PARK IRRIG. GJD DESIGNER: CAD TECH: CHECKED BY:

DAVID M. JONES, JR. AND ASSOCIATES, INC

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Florida

PREPARED FOR:

& Management

CONSULTANT:

DESIGN PROFESSIONAL:

acilities Construction

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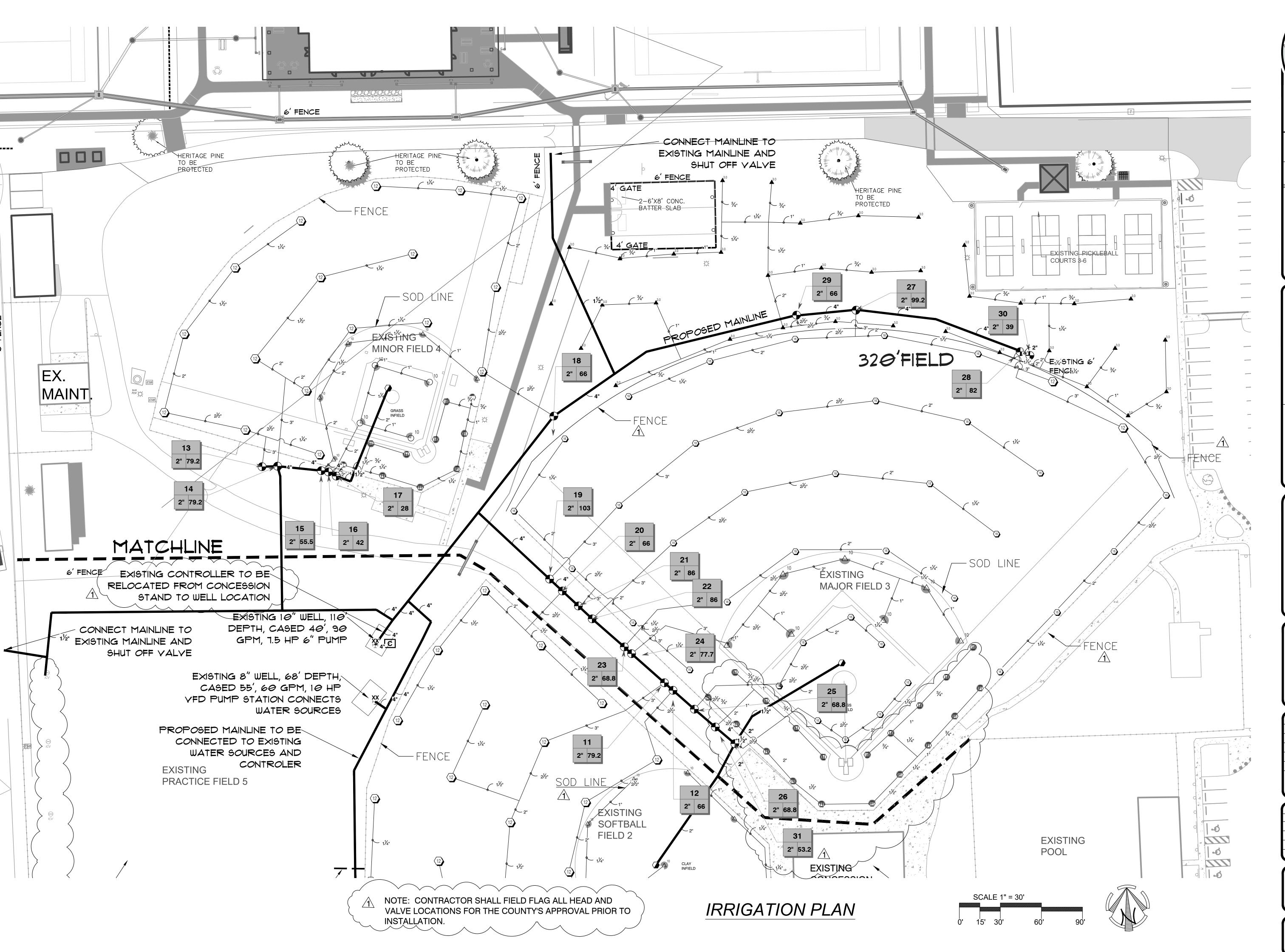
L.A. LICENSE: LC COOOO63

ISSUED FOR: **BIDDING**

> ISSUED DATE: FEB. 26, 2024 REVISIONS: 1\ APRIL 17, 2024 ADDENDA 1

SHEET TITLE: MASTER IRRIGATION PLAN

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PARK
BALLFIELD
IRRIGATION
RENOVATION
Lehigh Acres,
Florida

PREPARED FOR:



CONSULTANT:

Recreation

DESIGN PROFESSIONAL:

GREGORY J. DISERIO, RLA RLA NO. 840 DATE: STATE OF FLORIDA

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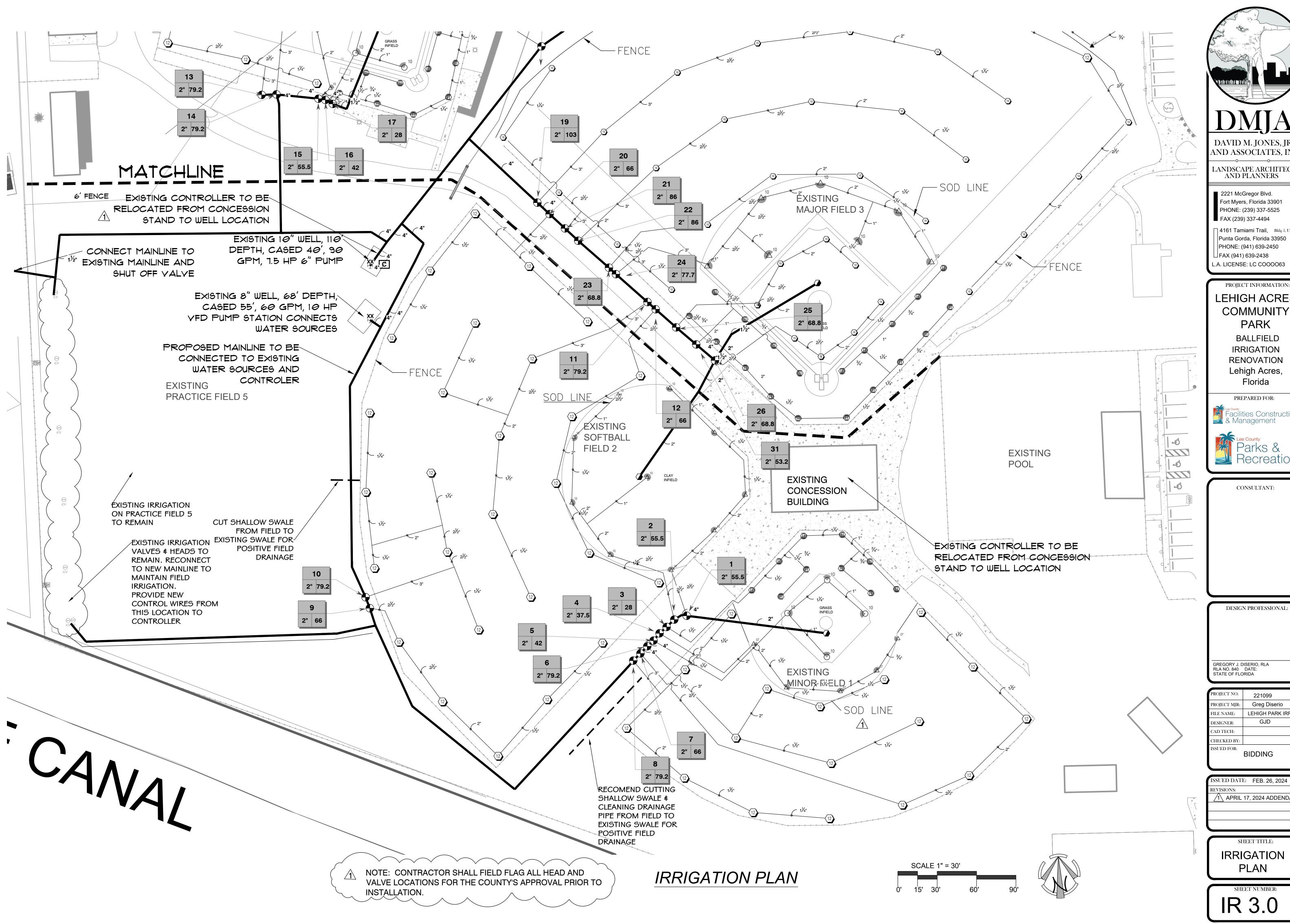
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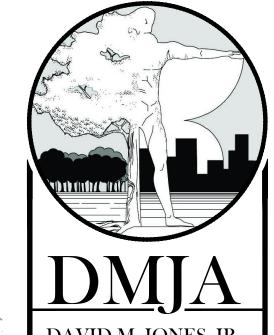
APRIL 17, 2024 ADDENDA 1

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PLAN





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LEHIGH ACRES COMMUNITY

PARK BALLFIELD **IRRIGATION** RENOVATION Lehigh Acres, Florida

PREPARED FOR:



CONSULTANT:

DESIGN PROFESSIONAL:

GREGORY J. DISERIO, RLA RLA NO. 840 DATE: STATE OF FLORIDA

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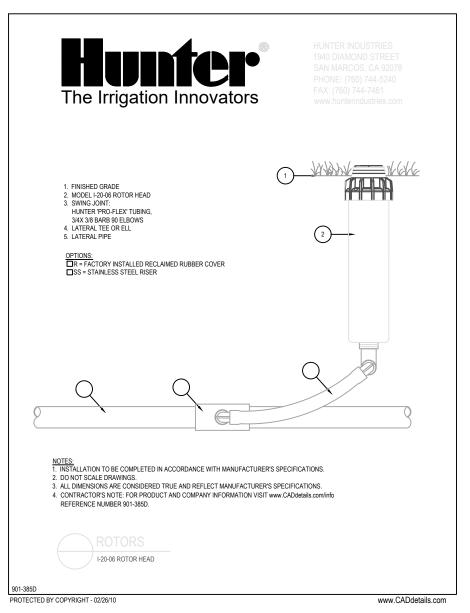
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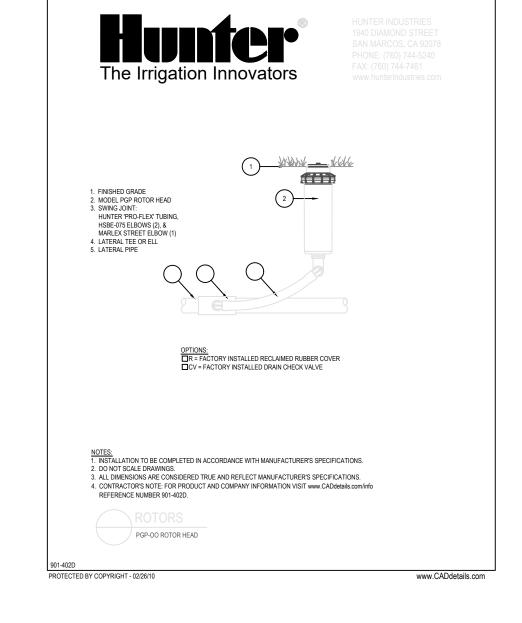
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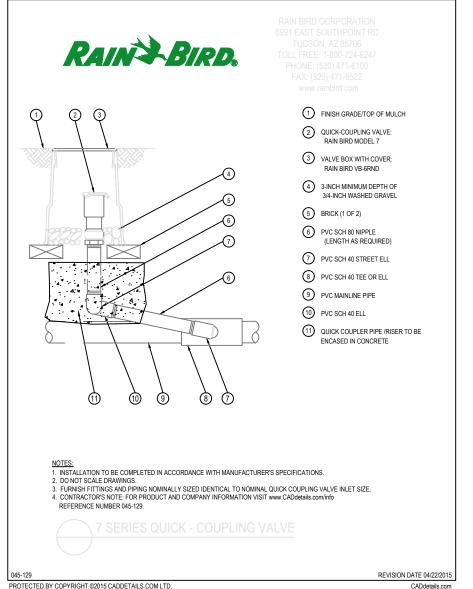
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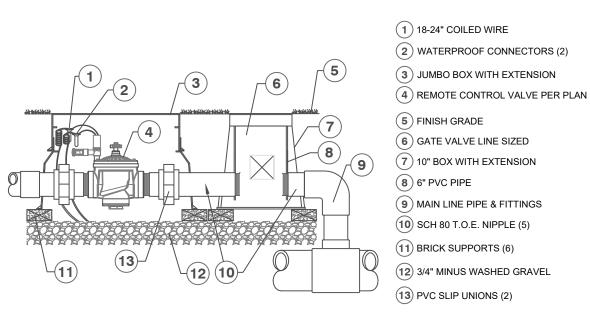












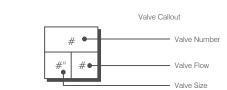


GENERAL IRRIGATION NOTES

- I. All mainline and lateral line piping and control wires under paving shall be installed in separate sleeves. main and lateral line sleeves shall be a minimum of twice (2x) the diameter of the pipe to be sleeved. Control wire sleeves shall be sufficient size for the required number of wires under paving.
- 2. Pipe sizes shall conform to those shown on the drawings. No substitutes of smaller pipe sizes shall be permitted but substitutions of larger sizes may be approved. All damaged and rejected pipe shall be removed from the site at the time of said rejection.
- 3. All sprinkler heads shall be set perpendicular to finished grade unless otherwise specified.
- 4. The irrigation contractor shall flush and adjust all sprinkler heads and valves for optimum coverage with minimal overspray onto walks, streets, walls, etc.
- 5. Irrigation heads shall be a minimum of 12" from buildings.
- 6. This drawing sheet is diagrammatic and for reference only. All piping, valves, etc. shown within paved areas are for design clarification only and shall be installed in planting areas whenever possible. The contractor shall locate all valves in shrub areas where possible.
- 7. It is the responsibility of the irrigation contractor to familiarize himself with all grade differences, location of walls, structures and utilities. The irrigation contractor shall repair or replace all items damaged by his work. He shall coordinate his work with other contractors for the location and installation of pipe sleeves through walls, under roadways and paving, etc.
- 8. Do not willfully install the sprinkler system as shown on the drawings when it is obvious in the field that unknown obstructions, grade differences, water levels or differences in the area dimensions exist that might not have been considered in the engineering. Such obstructions or differences should be brought to the attention of owners representative. In the event this notification is not performed, the irrigation contractor shall assume full responsibility for any revisions necessary.
- 9. All sprinkler equipment not otherwise detailed or specified shall be installed as per manufacturer's recommendations and specifications.
- 10. The contractor shall provide (Pressure Compensating Screens) as necessary to reduce or eliminate over spray into streets, walks or other areas as dictated by the owner's authorized representative.
- II. All remote control valves, gate valves, quick couplers and control wire splices shall be installed in approved valve boxes with locking covers. All shall be marked indicating controller and station numbers for control valve.
- 12. Contractor to provide the Owner with a complete irrigation design in compliance with
- 13. Irrigation system shall be designed for complete coverage of plant material and sports turf.
- 14. The sprinkler system to be based on a minimum operating pressure of 80 PSI. The irrigation contractor shall verify water pressures, flows, elevations, and other requirements prior to construction. Report any differences between the water pressure and flows indicated on drawings and the actual pressure reading at the irrigation point of connection to the owners authorized representative.
- 15. Installer shall conduct final testing and adjustments to achieve design specifications prior to completion of the system and acceptance by the owner or owner's representative.
- 16. The installer shall provide property owners and users with post-construction documentation, including as-constructed drawings, recommended maintenance activities and schedules, operational schedule, design precipitation rates, instructions on adjusting the system to apply less water after the landscape is established, maintenance schedule, water source, water shut-off method, and the manufacturer's operation guide for the irrigation controller. To the extent feasible, similar information should be made available for subsequent property transfers.
- 17. Any changes and/or modifications to the water source shall require appropriate adjustments to the system design.
- 18. Limiting Conditions in Existing Water Use Permit 36-00775-W as provided by the County shall apply. A modification to the permit shall be obtained by Lee County under the Lehigh Acres Park Expansion project.
- 19. Refer to Owners construction documents for complete irrigation system design.
- 20. Irrigation water source(s) shall be from the existing VFD Drive pump connected to the existing wells.
- 21. Irrigation manufacturers are listed to establish minimum performance standards. Substitutions must be authorized by Lee County.
- 22. The irrigation system shall be a conventional wire system. Two wire system shall not be utilized.

IRRIGATION SCHEDULE

IRRIGATION	SCHEDULE			
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	<u>GPM</u>	RADIUS
010	Hunter I-20-06-HF-SS 10 Turf Rotor, 6" Pop-Up. Adjustable and Full Circle. Stainless Steel Riser. Drain Check Valve. High Flow Nozzle.	8	10.5	45'
	Hunter I-20-06-LA-SS 3.5 Turf Rotor, 6in. Pop-Up. Adjustable and Full Circle. Stainless Steel Riser. Drain Check Valve. Low Angle Nozzle.	39	2.8	29'
\triangle^{07}	Hunter I-25-06-SS-HS 07 Turf Rotor, 6" Pop-Up. Adjustable and Full Circle. Stainless Steel Riser. Drain Check Valve. High Speed Nozzle.	5	7.5	42'
△10	Hunter I-25-06-SS-HS 10 Turf Rotor, 6" Pop-Up. Adjustable and Full Circle. Stainless Steel Riser. Drain Check Valve. High Speed Nozzle.	22	11.1	48'
4 3.0	Hunter PGP-04-PRB 3.0 Turf Rotor, 4.0" Pop-Up. Adjustable to Full Circle. Pressure Regulating Body.	35	3	38'
(12)	Rain Bird 8005-SS 12 Turf Rotor, 5.0" Pop-Up, Stainless Steel Riser, Standard Nozzle. With Seal-A-Matic Check Valve, Adjustable 50-330 arc, and 360 Non-Reversing Full-Circle. 1" (26/34) NPT Female Threaded Inlet. Extended Radius is Ideal for Large Turf Applications.	63	13.2	59'
√16	Rain Bird 8005-SS 16 Turf Rotor, 5.0" Pop-Up, Stainless Steel Riser, Standard Nozzle. With Seal-A-Matic Check Valve, Adjustable 50-330 arc, and 360 Non-Reversing Full-Circle. 1" (26/34) NPT Female Threaded Inlet. Extended Radius is Ideal for Large Turf Applications.	37	17.2	67'
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY		
•	Rain Bird PESB 2" 1", 1-1/2", 2" Plastic Industrial Valves. Low Flow Operating Capability, Globe Configuration. With Scrubber Technology for Reliable Performance in Dirty Water Irrigation Applications.	31		
	Rain Bird 7 1-1/2" 1-1/2in. Brass Quick-Coupling Valve, with Corrosion-Resistant Stainless Steel Spring, Metal Cover, and 1-Piece Body.	4		
	Irrigation Lateral Line: PVC Schedule 40 3/4"	PER PLAN		
	Irrigation Lateral Line: PVC Schedule 40 1"	PER PLAN		
	Irrigation Lateral Line: PVC Schedule 40 1 1/4"	PER PLAN		
	Irrigation Lateral Line: PVC Schedule 40 1 1/2"	PER PLAN		
	Irrigation Lateral Line: PVC Schedule 40 2"	PER PLAN		
	Irrigation Lateral Line: PVC Schedule 40 2 1/2"	PER PLAN		
	Irrigation Lateral Line: PVC Schedule 40 3"	PER PLAN		
	Irrigation Mainline: PVC Schedule 40 2"	PER PLAN.		
	Irrigation Mainline: PVC Schedule 40 2"	PER PLAN		
	Irrigation Mainline: PVC Schedule 40 4"	PER PLAN		



PIPE SIZING CHART **GPM** SIZE 3/4" 1-8 9-13

1-1/4" 14-22 1-1/2" 23-30 31-50 51-70 2-1/2" 71-100 3" 101-190 4"

Flows shall maintain velocities of less than 5 feet per second



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IRRIGATION RENOVATION Lehigh Acres, Florida



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> SHEET TITLE: **IRRIGATION DETAILS**

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