

LEHIGH ACRES COMMUNITY PARK BALLFIELD IRRIGATION RENOVATIONS

LEHIGH ACRES, FLORIDA

INDEX OF SHEETS

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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



DMJA

DAVID M. JONES, JR.
AND ASSOCIATES, INC.

LANDSCAPE ARCHITECTS
AND PLANNERS

2221 McGregor Blvd.
Fort Myers, Florida 33901
PHONE: (239) 337-5525
FAX (239) 337-4494

4161 Tamiami Trail, Bldg. 5, Unit 501
Punta Gorda, Florida 33950
PHONE: (941) 639-2450
FAX (941) 639-2438
L.A. LICENSE: LC 000063

PROJECT INFORMATION:
**LEHIGH ACRES
COMMUNITY
PARK**
BALLFIELD
IRRIGATION
RENOVATION
Lehigh Acres,
Florida



CONSULTANT:

DESIGN PROFESSIONAL:

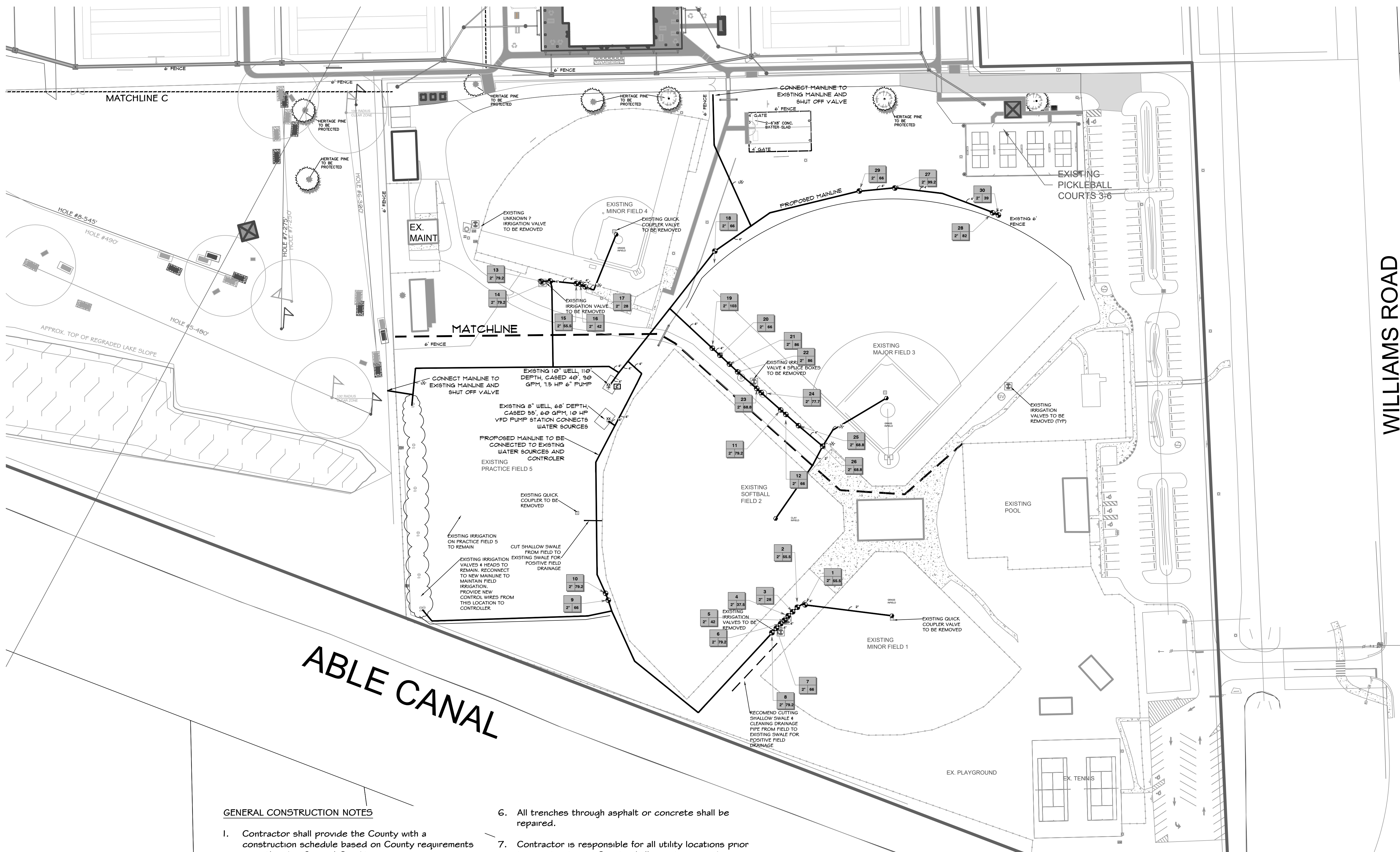
GREGORY J. DISERIO, RLA
RLA NO. 840 DATE
STATE OF FLORIDA

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

ISSUED DATE: FEB. 26, 2024
REVISIONS:

SHEET TITLE:
IRRIGATION
RENOVATIONS
COVER SHEET

SHEET NUMBER:
Cover



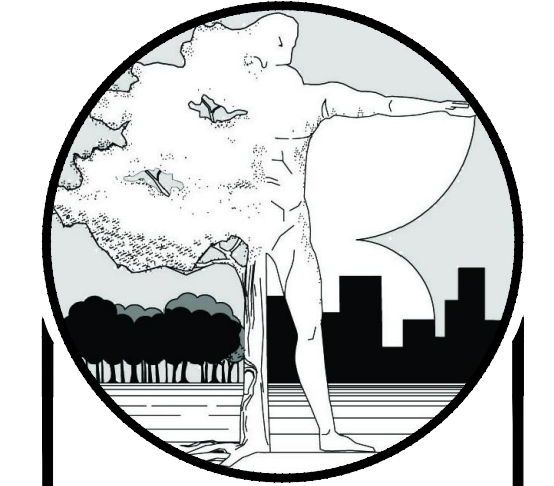
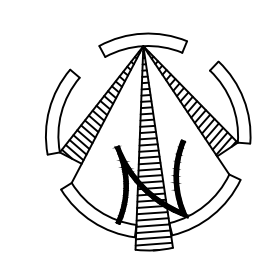
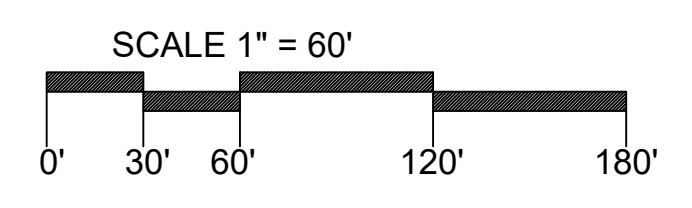
ABLE CANAL

WILLIAMS ROAD

GENERAL CONSTRUCTION NOTES

1. Contractor shall provide the County with a construction schedule based on County requirements as outlined in General Conditions.
2. Work shall be performed so as to minimize the times fields are without water. Maximum days allowed without the ability to water fields shall be ___ days.
3. Contractor shall remove all old irrigation heads, valves and valve boxes. All removed equipment to be provided to the County.
4. Contractor shall flag in the field all head and valve locations for Owners approval.
5. Contractor to repair all trenches and sod with bermuda sod. Repair all ruts and top dress with sand as necessary to restore fields to playing conditions.
6. All trenches through asphalt or concrete shall be repaired.
7. Contractor is responsible for all utility locations prior to construction. County shall assist in providing information that is available for existing utility locations.
8. Contractor shall keep and provide accurate as built plans of all piping and valves. As Built plans to be available at time of substantial completion inspection.
9. Refer to specifications and County provided documents to be included in the work.

MASTER IRRIGATION PLAN



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 DAVID M. JONES, JR.
 AND ASSOCIATES, INC.
 LANDSCAPE ARCHITECTS
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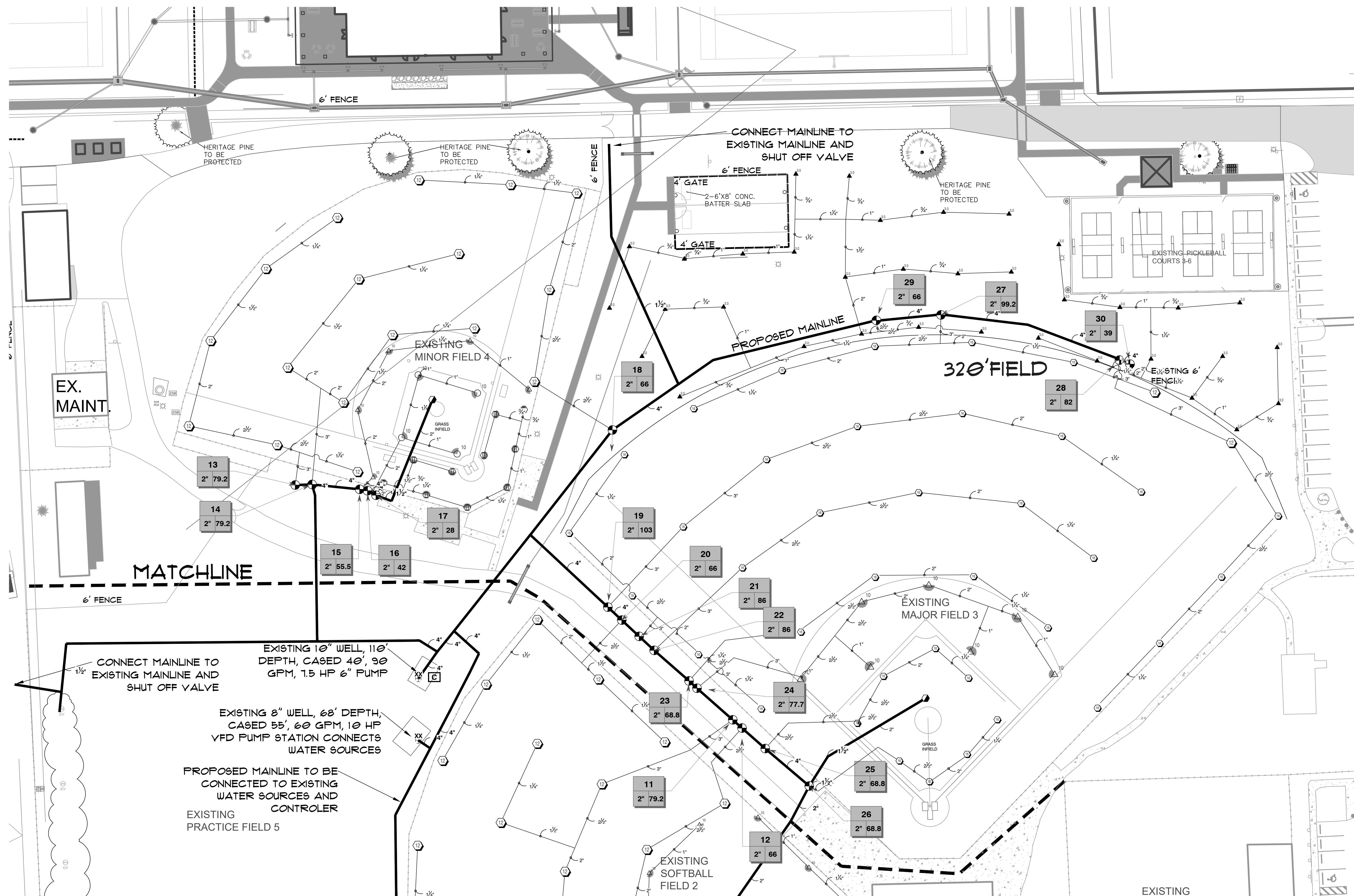
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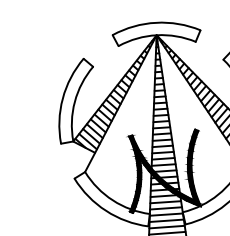
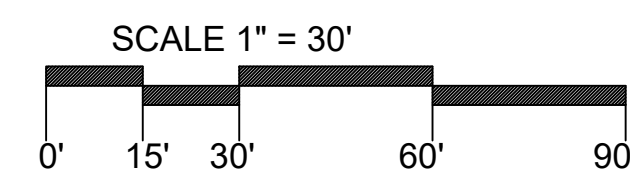
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**IRRIGATION
PLAN**

SHEET NUMBER:
IR 2.0



IRRIGATION PLAN





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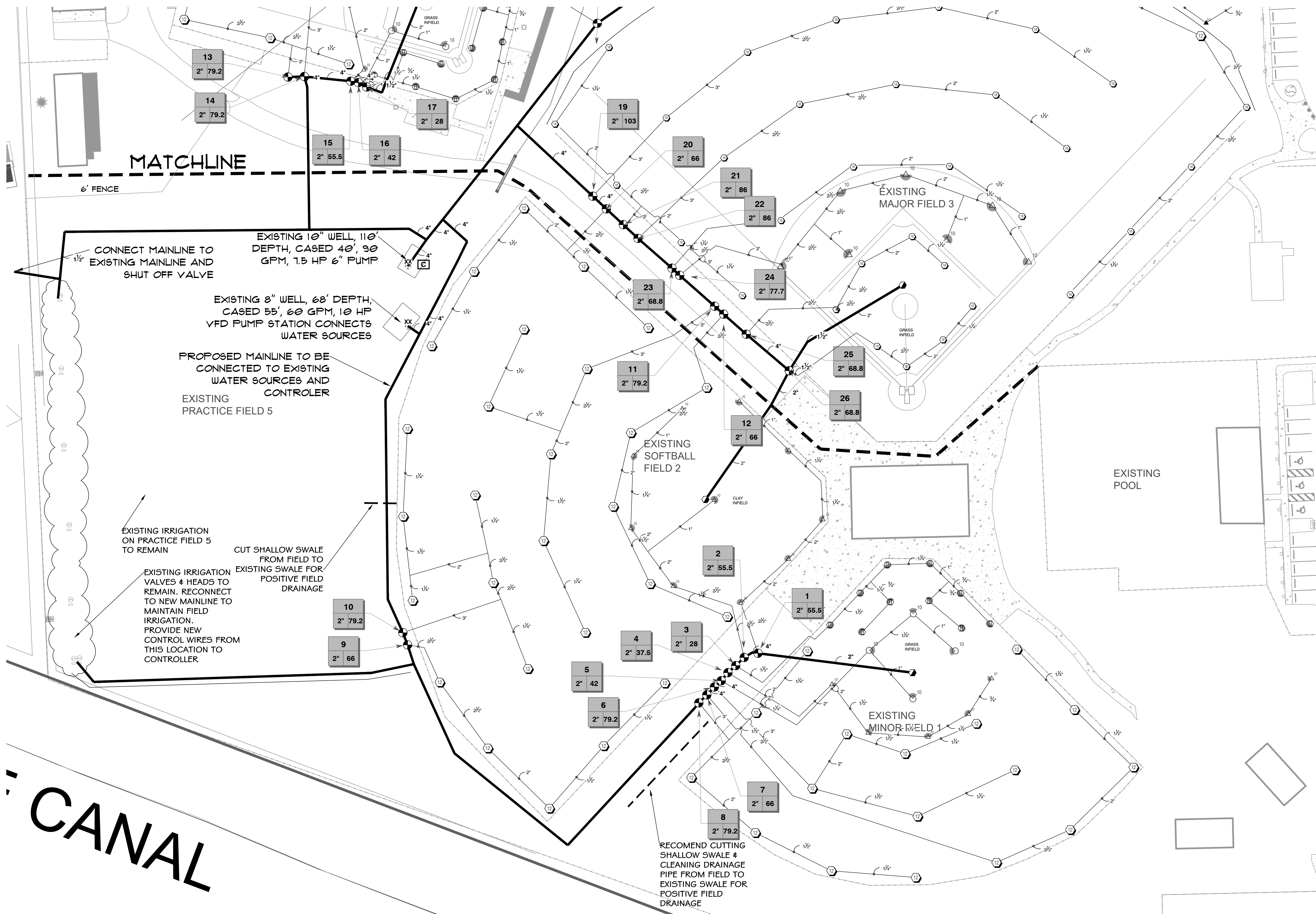
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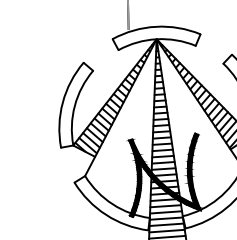
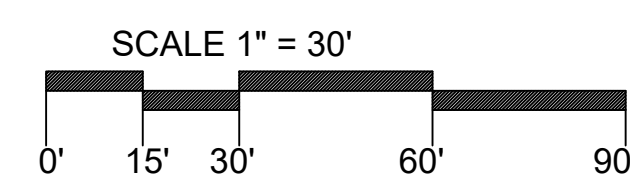
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IRRIGATION PLAN

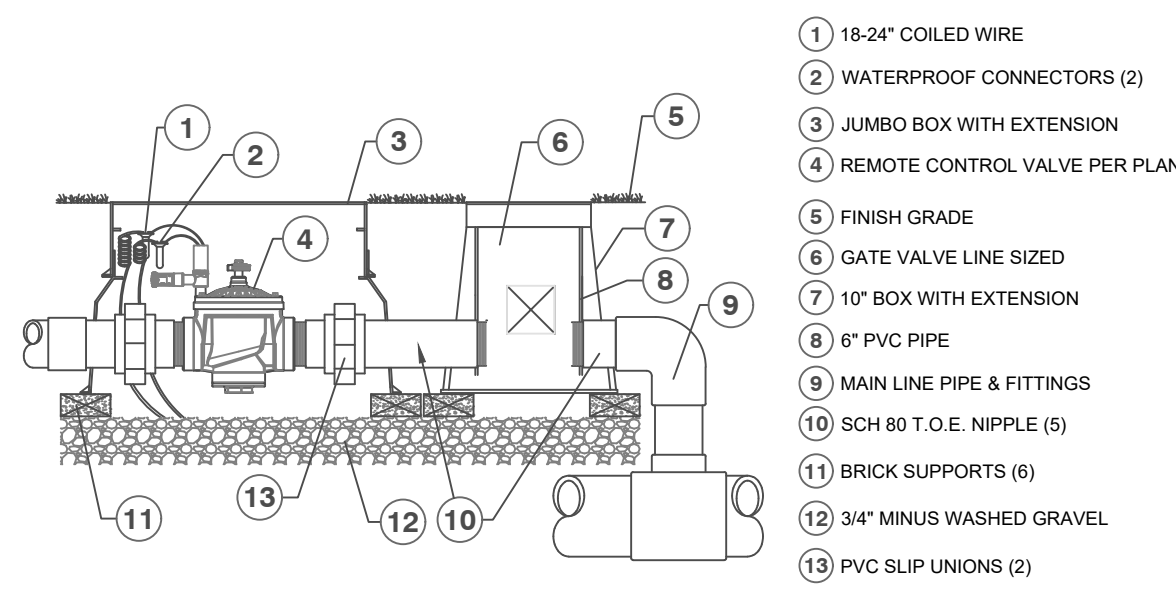


GENERAL IRRIGATION NOTES

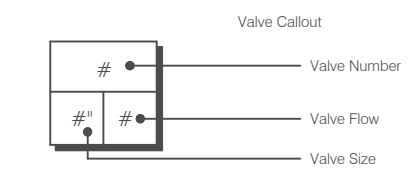
- All mainline and lateral line piping and control wires under paving shall be installed in separate sleeves. main and lateral line sleeves shall be a minimum of twice (2x) the diameter of the pipe to be sleeved. Control wire sleeves shall be sufficient size for the required number of wires under paving.
- 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.
- All sprinkler heads shall be set perpendicular to finished grade unless otherwise specified.
- The irrigation contractor shall flush and adjust all sprinkler heads and valves for optimum coverage with minimal overspray onto walks, streets, walls, etc.
- Irrigation heads shall be a minimum of 12" from buildings.
- 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.
- 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.
- 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.
- All sprinkler equipment not otherwise detailed or specified shall be installed as per manufacturer's recommendations and specifications.
- 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.
- 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.
- Contractor to provide the Owner with a complete irrigation design in compliance with Owners program.
- Irrigation system shall be designed for complete coverage of plant material and sports turf.
- 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.
- 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.
- 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.
- Any changes and/or modifications to the water source shall require appropriate adjustments to the system design.
- 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.
- Refer to Owners construction documents for complete irrigation system design.
- Irrigation water source(s) shall be from the existing VFD Drive pump connected to the existing wells.
- Irrigation manufacturers are listed to establish minimum performance standards. Substitutions must be authorized by Lee County.
- The irrigation system shall be a conventional wire system. Two wire system shall not be utilized.

IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	GPM	RADIUS
○ ¹⁰	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.	20	2.8	29'
△ 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'
▲ ²⁰	Hunter PGP-04-PRB 3.0 Turf Rotor, 4.0" Pop-Up, Adjustable to Full Circle. Pressure Regulating Body.	35	3	38'
⊕	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'
⊕	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.	30		
⊕	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 4"	Per Plan		
—————	Irrigation Mainline: PVC Schedule 40 2"	Per Plan		
—————	Irrigation Control Wire	Per Plan		



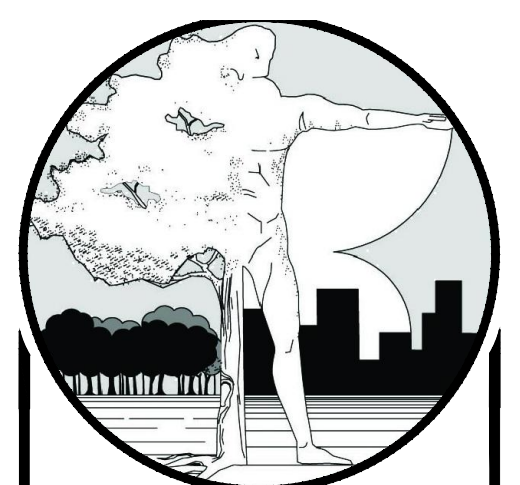
00 CONTROL VALVE WITH ISOLATION VALVE (1)
1" = 1'-0"
DETAIL-FILE



PIPE SIZING CHART

GPM	SIZE
1-8	3/4"
9-13	1"
14-22	1-1/4"
23-30	1-1/2"
31-50	2"
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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