

SECTION:	86039000
COUNTY:	BROWARD
STATE RD:	814
PERMIT:	2024-L-491-00013

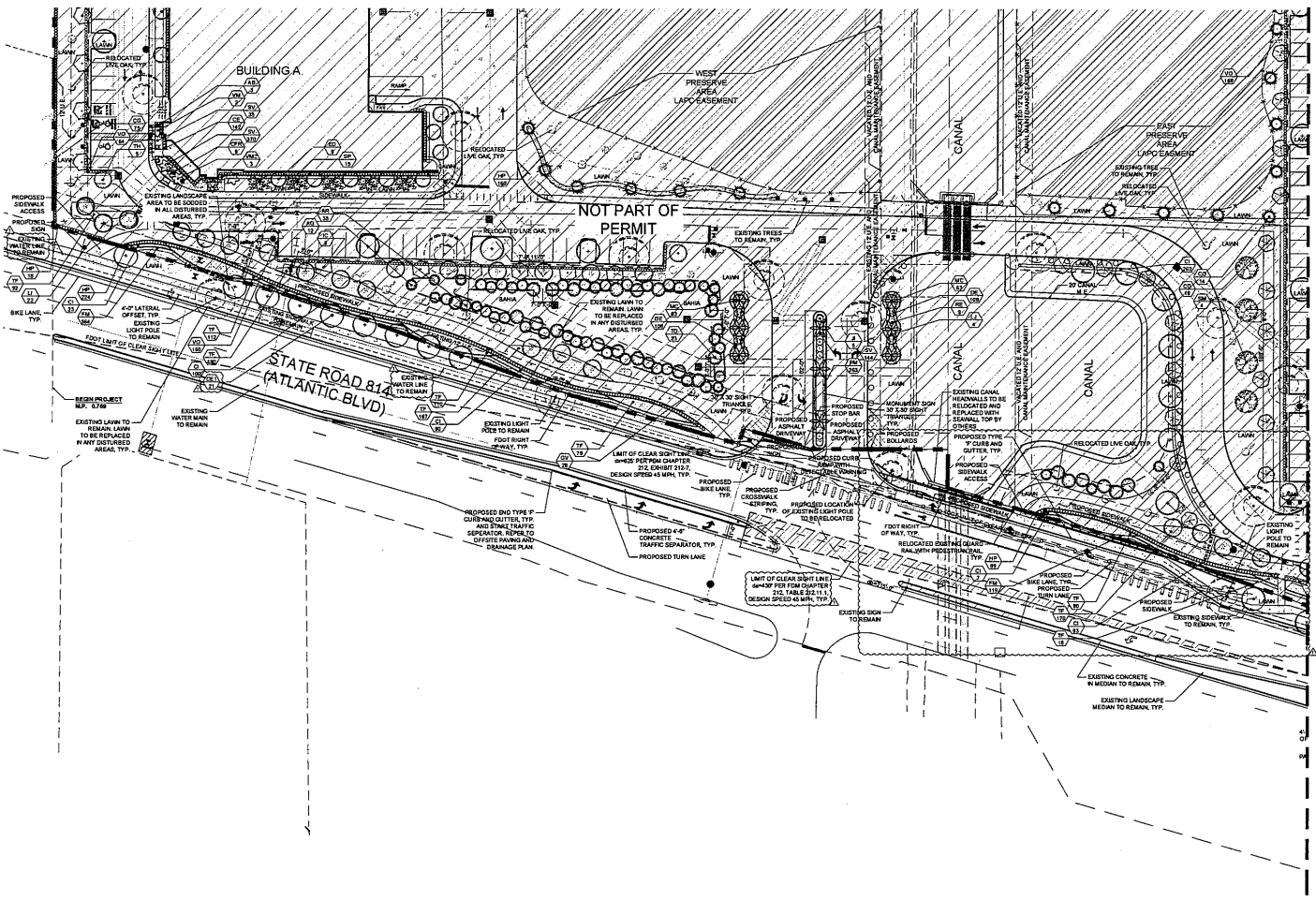
EXHIBIT B

LANDSCAPE IMPROVEMENT PLANS

The AGENCY agrees to install the landscape improvements in accordance with the plans and specifications attached hereto and incorporated herein.

Please see attached plans prepared by: Andrew Witkin, PLA
Witkin Hults & Partners

Date: September 8, 2025



LANDSCAPE PLAN
Scale: 1" = 30'-0"



SYMBOL LEGEND
Tree to Remain

Permit No. 2024-L-491-00013



WILKIN HULTS + PARTNERS

Landscape Architecture

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Phone: 954.575.1100
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GREYSTAR COCOMAR

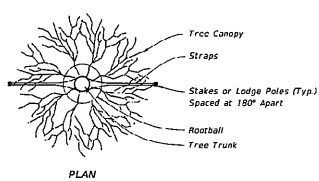
COCONUT CREEK, FL

STATE ROAD 814 ROW LANDSCAPE PLAN

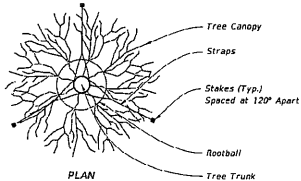
Revision	Description	Date	By

L-2

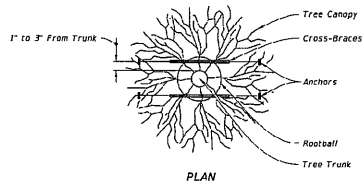
L-4



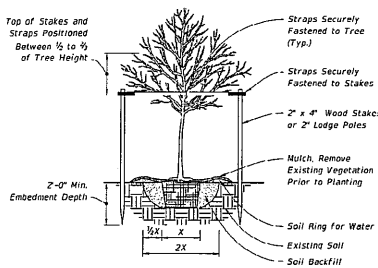
PLAN



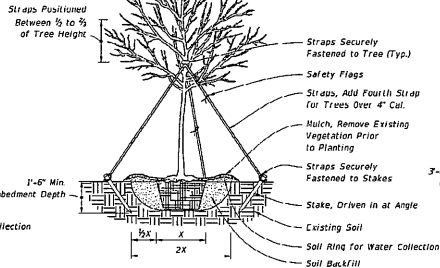
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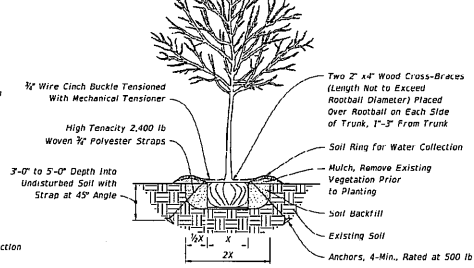
PLAN



ELEVATION



ELEVATION



ELEVATION

GENERAL NOTES:

1. Staking guidelines are based on standard horticultural requirements and are provided for plant establishment purposes only. Details not intended to apply when bracing is intended to address safety considerations. When bracing for safety, refer to Designer generated sign and staked details. These guidelines are not intended to apply when the tree or palm is within falling distance of a roadway, pedestrian or bicycle route, under extreme wind loads, non-standard soil properties, non-standard plant dimensions, or when rootball is anticipated to be greater than 4 feet diameter and planted on 1:3 slope or steeper.
2. All dimensions 6" and less are exaggerated for illustrative purposes only. Dimensions shown for wood materials are nominal. Slopes shown are Vertical:Horizontal.
3. Remove plant container's prior to planting. Remove a minimum of the top 1/3 of burlap, fabric, or wire mesh for plants not grown in containers.
4. Allow no more than 1" of soil to cover the uppermost root on all trees. Set the top of rootball 1"-2" above finish grade after setting and set plumb to the horizon.
5. Backfill with loosened existing soil or as shown in the plans. Remove rocks, sticks, or other deleterious material greater than 1" in any direction prior to backfilling. Water and tamp to remove air pockets. Contact the Engineer prior to planting if existing soils contain excessive sand, clay, or other material not conducive to proper plant growth.
6. Construct soil rings at the outer edge of the planting pit with a height of 3" and gently sloping sides unless a permanent, subsurface or drip irrigation system is provided. Do not pile soil on top of rootball.
7. Construct a 3" deep layer of mulch placed 2" off the edge of the trunk flare, around the base of shrub, or solidly around ground cover. Never pile mulch against the tree trunk.
8. Install guying with minimum 1" wide nylon or polypropylene straps with a minimum 600 lb. break strength. Check straps monthly and adjust as required to eliminate girdling of tree. Locate all wood stakes beyond the edge of soil ring in existing soil and embed a minimum of 18" below finished grade unless otherwise specified. Alternate tree bracing and guying systems specified or approved by the Engineer may be used in lieu of the tree bracing and guying methods detailed on the Index.
9. Relocated Trees and Palms: Brace relocated trees and palms in accordance with the Contract Documents. Remove bracing at the conclusion of the contract or as directed by the Engineer. Bracing or straps must not damage or become embedded in the tree bark.
10. Use 2" x 2" minimum wood stakes unless otherwise shown in the Plans or directed by the Engineer. Use wood meeting #2 Common or better in accordance with the Standard Grading Rules for Southern Pine.
11. Drive stakes into existing, undisturbed soil. Localized compaction may be provided to prevent displacement of the stakes for previously disturbed existing soils that do not provide sufficient stability.

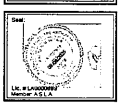
LAST REVISION	DESCRIPTION:	FDOT	FY 2024-25 STANDARD PLANS	LANDSCAPE INSTALLATION	INDEX 580-001	SHEET 1 of 2
11/01/19						

Permit No. 2024-L-491-00013



GREYSTAR COCOMAR
COCONUT CREEK, FL
LANDSCAPE DETAILS

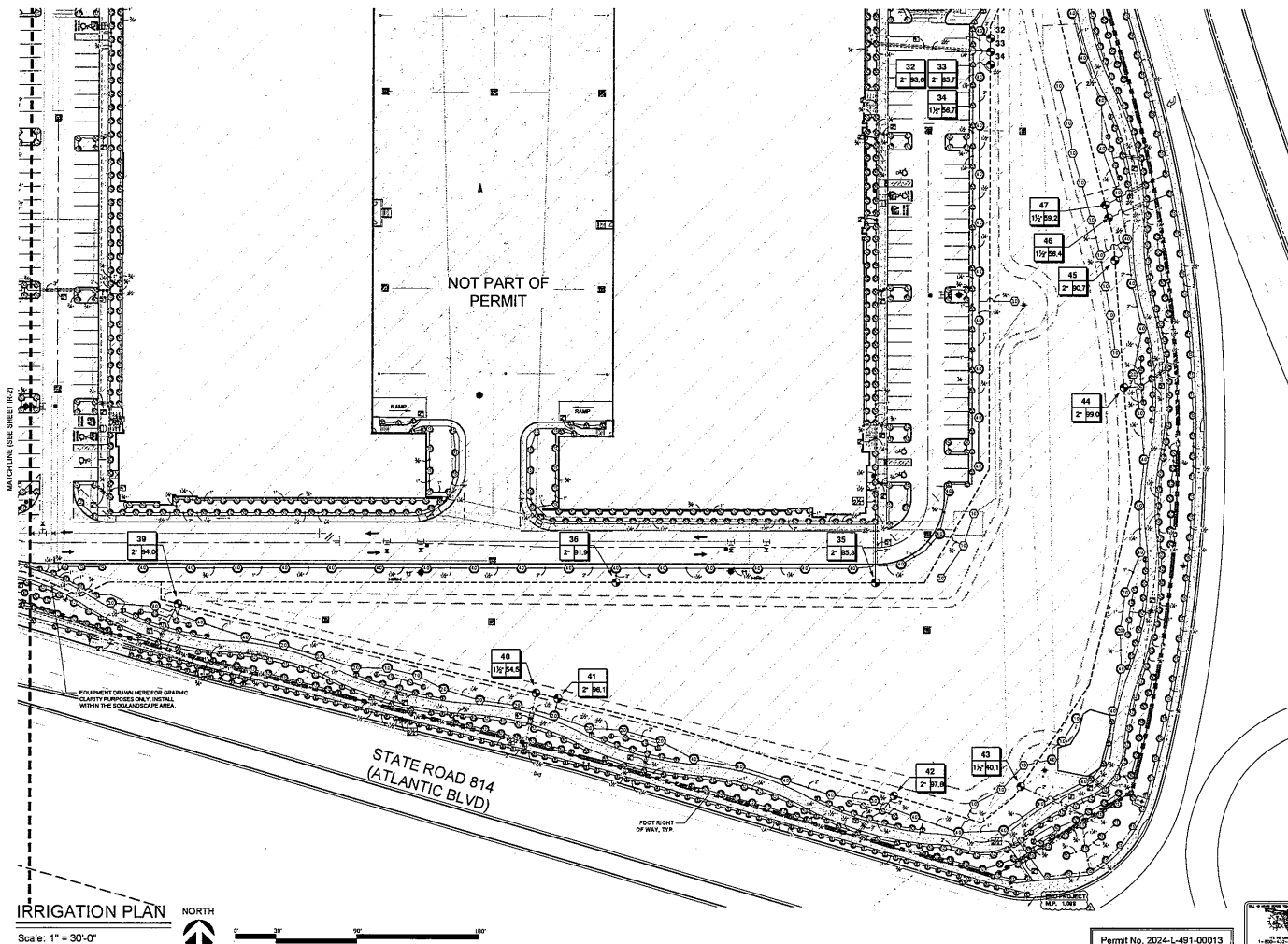
Revisions	Date	By



Drawing: Landscape Details
Date: 06/12/2023
Scale: NTS
Drawn by: AM
Sheet No.:
Cal No.: 2022-003

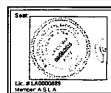
L-5

R-1



GREYSTAR COCOMAR
COCONUT CREEK, FL
STATE ROAD 814 ROW IRRIGATION PLAN

Revision	Date	By
1	10/1/2024	ASL



Drawing: ROW Irrigation Plan
Date: 10/1/2024
Scale: See L&P
Drawn by: ASL, P.E.
Sheet No.: IR-3
Calculated: 10/1/2024

Irrigation Notes

LAYOUT

LAYOUT IRRIGATION SYSTEM MAINLINES AND LATERAL LINES. MAKE ALL NECESSARY ADJUSTMENTS AS REQUIRED TO TAKE INTO ACCOUNT ALL SITE OBSTRUCTIONS AND LIMITATIONS PRIOR TO EXCAVATING TRENCHES.

FLAG ALL SPRINKLER HEAD LOCATIONS. ADJUST LOCATION AND MAKE THE NECESSARY MODIFICATIONS TO NOZZLE TYPES ETC. AS REQUIRED TO INSURE 100% COVERAGE AND 50% OVERLAP.

LOW ANGLE TRAJECTORY NOZZLES SHALL BE USED WHEN ALL SPRINKLERS AND ROTORS ARE LOCATED WITHIN 100' OF POOLS OR PUBLIC GATHERING AREAS.

PIPE

PIPE LOCATIONS SHOWN ON PLAN ARE SCHEMATIC ONLY AND SHALL BE ADJUSTED IN THE FIELD WHEN LAYING-OUT MAINS AND LATERALS. LOCATE PIPE NEAR EDGES OF PAVEMENT OR AGAINST BUILDINGS WHEREVER POSSIBLE TO ALLOW SPACE FOR PLANT ROOT BALLS.

PYING UNDER HARDSCAPES SUCH AS ROADS, WALKS, AND PATIOS ARE TO BE SLEEVED USING SCH 40 PIPE.

PIPES 4" AND UNDER TO BE SOLVENT WELD. LARGER PIPES TO BE GASKETED 12" RING PIPES AND USE THRUST BLOCKS OR MEGA LUGS AND DUCTILE IRON FITTINGS AT TURNING LOCATIONS.

USE ALL PIPE SO NOT TO EXCEED 5' PER SECOND

INSTALL RAIN SENSOR AS PER LOCAL CODE

PIPES CONVERTING RECLAIM WATER SHALL HAVE A 3" HORIZONTAL DISTANCE SEPARATION FROM OTHER PIPING OR UTILITY SERVICES. AN 18" VERTICAL SEPARATION SHALL BE MAINTAINED WHEN APPLICABLE.

AIR RELEASE VALVES TO BE USED AT THE END OF ALL MAINLINE RUNS.

WIRE

WIRE (OVER ALL MAIN)

MAX WIRE (14 GAUGE) TO BE INSTALLED ALONG MAINLINE INSTALLATION. USE 2" SCH 40 PVC WITH SWEEP ELBOWS AT TURNING LOCATIONS WHEN SLEEVING IS REQUIRED. ALL SPACERS AND DECODERS SHALL BE ENCLOSED WITHIN A VALVE/SPICE BOX. 3M DIRECT BURY BEYOND WATERPROOF CONNECTIONS SHALL BE USED AT ALL DECODER CONNECTIONS (ENCAPSULATION).

WIRE RUNS SHALL NOT EXCEED 24 MILES (STAR) OR 8 MILES (LOOP).

A SINGLE FIELD DECODER SHOULD BE USED TO OPERATE A SINGLE SOLENOID VALVE.

ALL IRRIGATION CONTROLLER/DECODERS TO BE PROPERLY INSTALLED AND GROUNDING IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. INSTALL SURGE PROTECTION ALONG 2 WIRE SYSTEM PER MANUFACTURER'S RECOMMENDATION. (APPROXIMATELY EVERY 500 FEET)

TRACER WIRE (12 GAUGE) TO BE INSTALLED ALONG MAINLINE INSTALLATION. ADDITIONAL TRACER WIRE WILL BE REQUIRED WHEN DECODER DISTANCE FROM MAINLINE EXCEEDS 5'. TRACER WIRE IS FOR LOCATION PURPOSES ONLY.

FLUSHING

PRIOR TO PLACEMENT OF HEADS FLUSH ALL LINES UNTIL LINES ARE COMPLETELY CLEAN OF DEBRIS.

TRENCHING

TRENCH BOTTOM TO BE UNIFORM AND FREE OF DEBRIS. NATIVE EXCAVATED MATERIAL USED TO BACKFILL TRENCH SHALL BE FREE FROM ROCKS OR STONES LARGER THAN 1" IN DIAMETER.

MEG

PRESSURE TEST MAINLINE AS PER FLORIDA BUILDING CODE. INSTALL IRRIGATION SYSTEM AS PER LATEST EDITION OF THE FLORIDA BUILDING CODE, APPENDIX F, AND ALL PERTINENT LOCAL CODES.

SPRAY HEADS INSTALLED IN SHRUB AREAS TO BE 12 INCH POP-UPS OR INSTALLED ON RISERS.

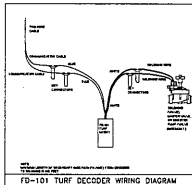
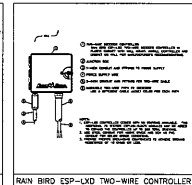
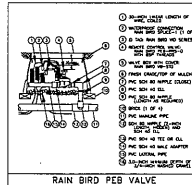
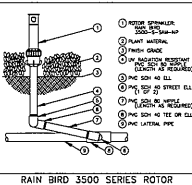
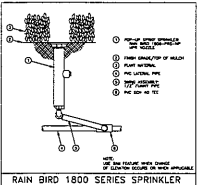
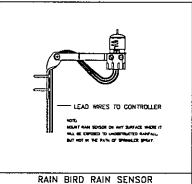
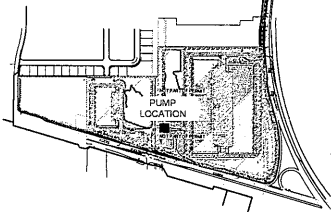
DESIGN

THIS DESIGN IS DIAGRAMMATIC. ALL IRRIGATION EQUIPMENT SUCH AS PIPES, VALVES, ETC. SHOWN WITHIN PVIOUS AREAS ARE FOR DESIGN CLARIFICATION ONLY. THE IRRIGATION CONTRACTOR SHALL INSTALL IRRIGATION EQUIPMENT IN PLANTING AREAS WHEREVER POSSIBLE.

THE IRRIGATION CONTRACTOR IS RESPONSIBLE TO FAMILIARIZE HIMSELF WITH THE SCOPE OF WORK, INCLUDING BUT NOT LIMITED TO GRADE DIFFERENCES, LOCATION OF WALLS, STRUCTURES, UTILITIES AND EXISTING IRRIGATION EQUIPMENT. THE IRRIGATION CONTRACTOR IS RESPONSIBLE TO REPAIR AND/OR REPLACE ANY DAMAGE CAUSED BY THEIR WORK. THEY SHALL COORDINATE HIS WORK WITH OTHER CONTRACTOR OR MUNICIPAL AUTHORITIES FOR THE LOCATION AND INSTALLATION OF IRRIGATION EQUIPMENT UNDER ROADWAYS AND PAVING, SLEEVES THROUGH WALLS AND FLOORS, ETC.

INSTALL ALL IRRIGATION EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS AND SPECIFICATIONS. SUBSTITUTIONS FOR IRRIGATION EQUIPMENT TO BE APPROVED BY THE IRRIGATION DESIGNER. EQUIPMENT CHANGES TO INCLUDE BUT NOT LIMITED TO PUMP, CONTROLLER, SPRAY HEADS, ROTORS, AND VALVES.

DO NOT INSTALL IRRIGATION EQUIPMENT AS SHOWN ON THE DRAWINGS WHEN FIELD CONDITIONS DIFFER. OBSTRUCTIONS OR DIFFERENCES TO BE BROUGHT TO THE ATTENTION OF THE ARCHITECT. IN THE EVENT THIS NOTIFICATION IS NOT PERFORMED, THE IRRIGATION CONTRACTOR TO ASSUME FULL RESPONSIBILITY.



IRRIGATION BREAKDOWN

IRRIGATION SCHEDULE (ATLANTIC BLVD ROW SWALE)

SYMBOL	MANUFACTURER/DESCRIPTION	QTY	PR
1	Rain Bird 1800 Series Sprinkler	1	10
2	Rain Bird 3500 Series Rotor	1	15
3	Rain Bird PEB Valve	1	20
4	Rain Bird ESP-LXD Two-Wire Controller	1	20
5	Rain Bird 1800 Series Sprinkler	1	10
6	Rain Bird 3500 Series Rotor	1	15
7	Rain Bird PEB Valve	1	20
8	Rain Bird ESP-LXD Two-Wire Controller	1	20
9	Rain Bird 1800 Series Sprinkler	1	10
10	Rain Bird 3500 Series Rotor	1	15
11	Rain Bird PEB Valve	1	20
12	Rain Bird ESP-LXD Two-Wire Controller	1	20
13	Rain Bird 1800 Series Sprinkler	1	10
14	Rain Bird 3500 Series Rotor	1	15
15	Rain Bird PEB Valve	1	20
16	Rain Bird ESP-LXD Two-Wire Controller	1	20
17	Rain Bird 1800 Series Sprinkler	1	10
18	Rain Bird 3500 Series Rotor	1	15
19	Rain Bird PEB Valve	1	20
20	Rain Bird ESP-LXD Two-Wire Controller	1	20

IRRIGATION SCHEDULE (LYONS ROAD MEDIAN)

SYMBOL	MANUFACTURER/DESCRIPTION	QTY	PR
1	Rain Bird 1800 Series Sprinkler	1	10
2	Rain Bird 3500 Series Rotor	1	15
3	Rain Bird PEB Valve	1	20
4	Rain Bird ESP-LXD Two-Wire Controller	1	20
5	Rain Bird 1800 Series Sprinkler	1	10
6	Rain Bird 3500 Series Rotor	1	15
7	Rain Bird PEB Valve	1	20
8	Rain Bird ESP-LXD Two-Wire Controller	1	20
9	Rain Bird 1800 Series Sprinkler	1	10
10	Rain Bird 3500 Series Rotor	1	15
11	Rain Bird PEB Valve	1	20
12	Rain Bird ESP-LXD Two-Wire Controller	1	20
13	Rain Bird 1800 Series Sprinkler	1	10
14	Rain Bird 3500 Series Rotor	1	15
15	Rain Bird PEB Valve	1	20
16	Rain Bird ESP-LXD Two-Wire Controller	1	20
17	Rain Bird 1800 Series Sprinkler	1	10
18	Rain Bird 3500 Series Rotor	1	15
19	Rain Bird PEB Valve	1	20
20	Rain Bird ESP-LXD Two-Wire Controller	1	20

IRRIGATION SCHEDULE OVERALL

SYMBOL	MANUFACTURER/DESCRIPTION	QTY	PR
1	Rain Bird 1800 Series Sprinkler	1	10
2	Rain Bird 3500 Series Rotor	1	15
3	Rain Bird PEB Valve	1	20
4	Rain Bird ESP-LXD Two-Wire Controller	1	20
5	Rain Bird 1800 Series Sprinkler	1	10
6	Rain Bird 3500 Series Rotor	1	15
7	Rain Bird PEB Valve	1	20
8	Rain Bird ESP-LXD Two-Wire Controller	1	20
9	Rain Bird 1800 Series Sprinkler	1	10
10	Rain Bird 3500 Series Rotor	1	15
11	Rain Bird PEB Valve	1	20
12	Rain Bird ESP-LXD Two-Wire Controller	1	20
13	Rain Bird 1800 Series Sprinkler	1	10
14	Rain Bird 3500 Series Rotor	1	15
15	Rain Bird PEB Valve	1	20
16	Rain Bird ESP-LXD Two-Wire Controller	1	20
17	Rain Bird 1800 Series Sprinkler	1	10
18	Rain Bird 3500 Series Rotor	1	15
19	Rain Bird PEB Valve	1	20
20	Rain Bird ESP-LXD Two-Wire Controller	1	20

