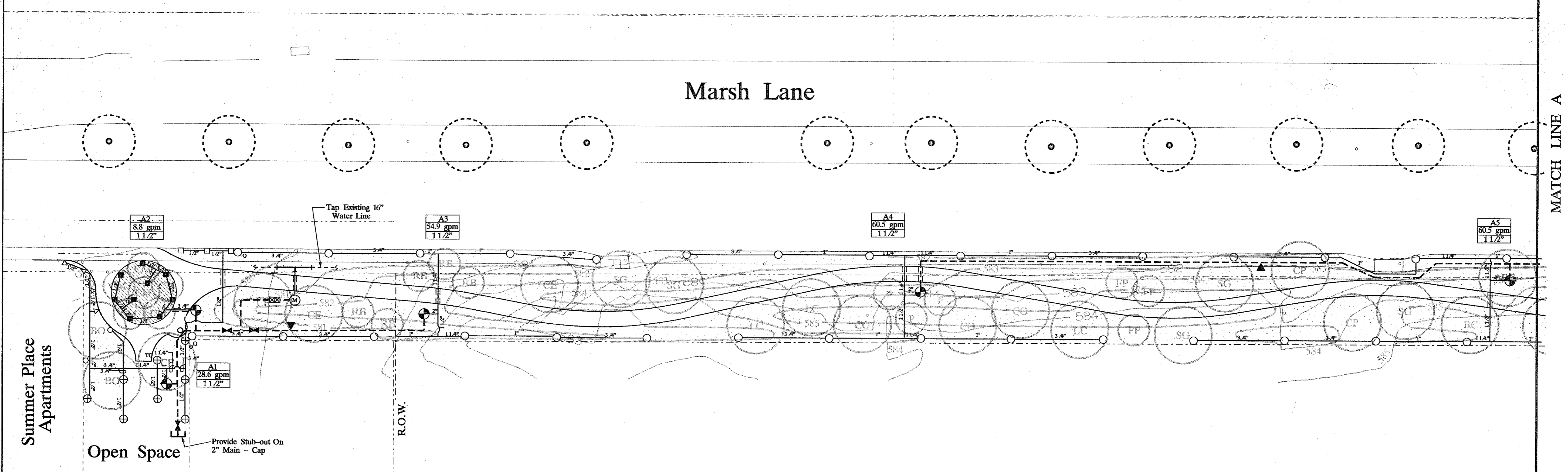


**IRRIGATION LEGEND**

- HUNTER MODEL POP ROTOR WITH #9 NOZZLE AT 180 UNLESS OTHERWISE NOTED (#12 NOZZLE AT 360, #6 NOZZLE AT 90)
- RAINBIRD MODEL 1804-FRS-SAM POP-UP SPRAY HEAD WITH 15 SERIES NOZZLE
- RAINBIRD MODEL 182-FRS-SAM POP-UP SPRAY HEAD WITH 15 SERIES NOZZLE
- RAINBIRD MODEL 182-FRS-SAM POP-UP SPRAY HEAD WITH 12 SERIES NOZZLE
- RAINBIRD MODEL 182-FRS-SAM POP-UP SPRAY HEAD WITH 10 SERIES NOZZLE
- RAINBIRD MODEL 182-FRS-SAM POP-UP SPRAY HEAD WITH 8 SERIES NOZZLE
- RAINBIRD MODEL 182-FRS-SAM POP-UP SPRAY HEAD WITH 6 SERIES NOZZLE
- RAINBIRD MODEL 182-FRS-SAM POP-UP SPRAY HEAD WITH 5 SST NOZZLE
- RAINBIRD MODEL 182-FRS-SAM POP-UP SPRAY HEAD WITH 17 SST NOZZLE
- RAINBIRD MODEL 182-FRS-SAM POP-UP SPRAY HEAD WITH 15 SST NOZZLE
- RAINBIRD MODEL 182-FRS-SAM POP-UP SPRAY HEAD WITH 15 SERIES EST NOZZLE
- RAINBIRD PER SERIES VALVE, SIZED AS SHOWN
- ⊕ 4" GATE VALVE
- ⊕ 2" FEBCO 805 Y DOUBLE CHECK VALVE ASSEMBLY
- ⊕ 2" WATER METER
- ⊕ RAINBIRD 3RC QUICK COUPLER VALVE
- ⊕ RAINBIRD 80C-SAT-B+SS SERIES, 24 STATION CONTROLLER/FIELD SATELLITE UNIT
- LATERAL LINE
- 2" MAIN LINE
- SCH 40 PVC SLEEVE



**IRRIGATION NOTES**

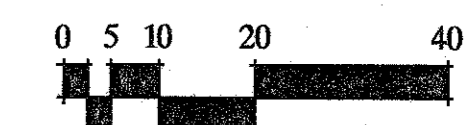
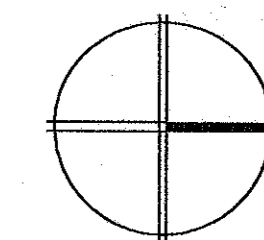
1. IRRIGATION PLAN IS SCHEMATIC. ALL PIPING, HEADS, VALVES, ETC. SHALL BE LOCATED AS SHOWN ON THE DETAILS. REPORT ANY DISCREPANCIES BETWEEN ACTUAL AND PROPOSED SITE CONDITIONS TO THE OWNER. DO NOT PROCEED WITH WORK UNTIL SAID DISCREPANCIES ARE RESOLVED.
2. VERIFY THAT THE WORK OF OTHER CONTRACTORS/TRADES IS SUFFICIENTLY COMPLETE TO ALLOW COMMENCEMENT OF IRRIGATION INSTALLATION PRIOR TO BEGINNING WORK. CONTRACTORS SHALL COORDINATE INSTALLATION OF ALL IRRIGATION SLEEVES UNDER PAVEMENT WITH OTHER CONTRACTORS.
3. COORDINATE IRRIGATION INSTALLATION WITH THE WORK OF OTHER CONTRACTORS/TRADES AND PROTECT THE WORK OF OTHER CONTRACTORS/TRADES. IRRIGATION CONTRACTOR IS RESPONSIBLE FOR ALL DAMAGES RESULTING FROM HIS ACTIONS.
4. ALL LATERAL PIPING TO BE PVC CLASS 20, SDR 21 WITH SOLVENT WELDED JOINTS, EXCEPT \* PIPE WHICH SHALL BE CLASS 15, SDR 15. ALL MAIN LINE PIPE TO BE SCHEDULE 40 BELLED PVC. PUT NO MORE THAN 2 PIPES IN ANY ONE TRENCH.
5. REMOTE CONTROL WIRE TO BE UL APPROVED DIRECT BURIAL COPPER WIRE, AWG-14-600 VOLT. WIRE TO BE WHITE, WIRE TO BE NO SMALLER THAN 14 GAUGE. ALL RUNS OF WIRE TO BE CONTINUOUS WITH NO SPLICES (EXCEPT IN THE VALVE BOXES WHERE VALVES ARE LOCATED). ANYTIME WIRING CHANGES DIRECTION SUCH AS AT AN ELBOW OR TEES, ALLOW A LOOP OF 30 INCHES ALONGSIDE THE FITTING.
6. THE IRRIGATION CONTRACTOR SHALL PROVIDE THE OWNER WITH TWO COPIES OF THE PARTS LIST AND MANUFACTURER'S CATALOG SHOWING PERFORMANCE, QUALITY AND FUNCTION OF EACH ITEM OF EQUIPMENT IN THE SYSTEM. IN ADDITION, THE IRRIGATION CONTRACTOR SHALL PROVIDE THE OWNER WRITTEN INSTRUCTIONS FOR OPERATION AND MAINTENANCE OF THE SYSTEM.
7. PRIOR TO THE ACCEPTANCE OF IRRIGATION SYSTEM BY OWNER, A PERSON QUALIFIED TO REPRESENT THE IRRIGATION CONTRACTOR SHALL BE PRESENT AT THE FINAL INSPECTION TO DEMONSTRATE THE SYSTEM AND PROVE ITS PERFORMANCE. PRIOR TO THE INSPECTION, ALL WORK SHALL HAVE BEEN COMPLETED, TESTED, AND ADJUSTED AND PLACED IN OPERATION.
8. ALL WORK AND EQUIPMENT TO BE GUARANTEED FOR ONE YEAR FROM THE DATE OF ACCEPTANCE BY OWNER. A COPY OF THE GUARANTEE SHALL BE INCLUDED IN THE OPERATION MAINTENANCE INSTRUCTIONS.
9. IRRIGATION SYSTEM INSTALLATION TO BE PERFORMED IN ACCORDANCE WITH ALL PERTINENT CODES AND ORDINANCES.
10. NO PVC PIPING SHALL BE LOCATED UNDER TREE ROOTBALLS.
11. THE CONTRACTOR SHALL VERIFY LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO INSTALLATION. IF ANY UNDERGROUND OR ABOVE GROUND CONSTRUCTION IS LOCATED AS TO SIGNIFICANTLY HINDER INSTALLATION OR FUNCTION OF THE IRRIGATION SYSTEM, THE OWNER SHALL BE NOTIFIED IMMEDIATELY.
12. ALL VALVE COVERS, VAULT BOXES, ECT. SHALL BE PLACED SO THE EDGES ARE PARALLEL OR PERPENDICULAR TO ADJACENT HARD EDGES. TOP OF ALL BOXES TO BE FLUSH WITH GRADE. TOP SURFACE OF BOXES SHALL BE INSTALLED SO THAT A SMOOTH SURFACE IS CREATED IN RELATION TO EXISTING GRADES.
13. ALL LATERALS SHALL BE INSTALLED WITH 12" MINIMUM COVERAGE OVER PIPES AT FINISH GRADE AND ALL MAIN LINES WITH AT LEAST 18" MINIMUM COVERAGE.
14. MAIN LINE PIPING AND LATERAL PIPING MAY BE PLACED IN SAME TRENCH WHEN POSSIBLE. MAIN LINE PIPING SHALL BE INSTALLED IN BOTTOM OF TRENCH WITH LATERALS ON TOP.
15. FITTINGS: NO CROSSES ARE PERMITTED. SEPARATE TEES AND/OR ELBOWS BY AT LEAST 12 INCHES. REDUCTION TEES ARE PREFERRED OVER THE USE OF REDUCER BUSHINGS. ONLY SPEARS OR LASCO ARE PERMITTED. ALLOW 25 INCHES OUTSIDE OF SLEEVE BEFORE FIRST FITTING.
16. USE KING CONNECTORS FOR ALL WIRE SPLICES. ALLOW AT LEAST 36 INCHES OF PIGTAILED WIRE AT EACH SPLICE. ALL VALVE SPLICES ARE TO BE HOUSED BY STANDARD LARGE RECTANGULAR PLASTIC VALVE BOXES. ALL FIELD SPLICES ARE TO BE IN 30 INCH ROUND PLASTIC VALVE BOXES.
17. UNDER MARSH LANE BID ALTERNATE AS FOR INCLUSION OF THE MAXICOM JR. THE CCU UNIT WILL BE LOCATED AT THE ADDISON ATHLETIC CLUB CONNECTION BETWEEN THE CCU AND SATELLITE UNITS WILL BE VIA PHONE LINES LEASED FROM SOUTHWESTERN BELL.

**SLEEVE SCHEDULE**

THE CONTRACTOR SHALL PROVIDE SLEEVES FOR ALL PIPING THAT OCCURS UNDER ANY PAVED SURFACE. THE MINIMUM SIZE OF SLEEVE IS AS FOLLOWS.

PIPE SIZE	FOR SLEEVE LENGTH UNDER 15'	FOR SLEEVE LENGTH OVER 15'
1/2"	1"	1 1/2"
3/4"	1 1/2"	2"
1"	2"	2 1/2"
1 1/4"	2 1/2"	3"
1 1/2"	3"	4"
2"	4"	6"
2 1/2"	6"	6"
3"	6"	6"
4"	8"	10"

ALL WIRING SLEEVES SHALL BE 4" DIAMETER.



**Irrigation Plan Area One**



**LES LACS LINEAR PARK**

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**REVISIONS**

NO.	DESCRIPTION

JOB NUMBER  
**93324001D**

DESIGNED SLA  
DRAWN SLA  
CHECKED DLR/ZPO

ISSUE DATE  
**August 18, 1994**

SHEET NUMBER  
**LI-11**