



IRRIGATION POINT OF CONNECTION (P.O.C.) AT STUB OFF DOMESTIC WATER LINE SHOWN ON CIVIL UTILITY PLANS. MAXIMUM DEMAND IS 15 GPM. VERIFY MINIMUM STATIC PRESSURE OF 15 PSI PRIOR TO BEGINNING INSTALLATION OF IRRIGATION SYSTEM. NOTIFY LANDSCAPE ARCHITECT IMMEDIATELY IF PRESSURE AT SITE IS LOWER THAN THE MINIMUM NOTED ABOVE.

AUTOMATIC IRRIGATION CONTROLLER "A" 12 STATION, FEDESTAL MOUNTED IN APPROXIMATE LOCATION SHOWN. FINAL LOCATION SHALL BE APPROVED BY THE OWNER'S REPRESENTATIVE. ELECTRICAL CONTRACTOR SHALL PROVIDE A 120V/10 AMP DEDICATED CIRCUIT TO THE CONTROLLER AND MAKE FINAL HARDWARE CONNECTION.

CONTRACTOR SHALL MODIFY EXISTING IRRIGATION TO ACCOMMODATE DELETED PLANTINGS IN PUBLIC ROW AND FULLY RE-CONNECT OUT OF PUBLIC ROW TO ENSURE A FULLY AUTOMATED AND FUNCTIONING IRRIGATION SYSTEM FOR EXISTING PLANTS TO REMAIN. NEW EXISTING PLANTS IN THE PUBLIC ROW WILL BE IRRIGATED BY NEW POINT OF CONNECTION AND IRRIGATION SYSTEM.

A-1	1"	1"
IR SHRB EX TREES	7	3.0
A-2	1"	1"
PALMS EX PALMS	7	3.0

EMITTER SCHEDULE			
TREES/PALMS			
COMMON NAME	FLOW PER OUTLET	QTY AND TYPE OF EMITTER	TOTAL FLOW PER PLANT
Date Palm	2 GPH	10 SINGLE - OUTLET	20 GPH
Raywood Ash	1 GPH	10 SINGLE - OUTLET	10 GPH

EMITTER SCHEDULE			
SHRUBS/GROUNDCOVER			
COMMON NAME	FLOW PER OUTLET	QTY AND TYPE OF EMITTER	TOTAL FLOW PER PLANT
Euonymus/Xylosma	1 GPH	2 SINGLE - OUTLET	2 GPH
Germander/Yucca	1 GPH	2 SINGLE - OUTLET	2 GPH
Deer Grass	1 GPH	2 SINGLE - OUTLET	2 GPH
Callistemon	1 GPH	2 SINGLE - OUTLET	2 GPH

- NOTES:
- EMITTER SCHEDULE HAS BEEN PREPARED BASED UPON PEAK SEASON MATURE PLANT WATER REQUIREMENTS FOR THE LAS VEGAS AREA.
 - ADJUST IRRIGATION OPERATING TIMES TO ACCOMMODATE PLANT MATURITY, SOIL TYPE, PLANT EXPOSURE AND SEASONAL REQUIREMENTS.
 - EMITTERS AT TREES MAY BE CAPPED WITH APPROVAL BY LANDSCAPE ARCHITECT.

NOTES

- SYSTEM DESCRIPTION: CONTRACTOR SHALL INSTALL A FULLY AUTOMATED DRIP IRRIGATION SYSTEM TO IRRIGATE THE NEW PLAZA PARK AS WELL AS MAKE MODIFICATIONS TO THE EXISTING IRRIGATION SYSTEM. A SINGLE POINT OF CONNECTION WILL SUPPLY THE NEW PLAZA PARK WITH BACKFLOW DEVICE, MAXICOM COMPATIBLE CONTROLLER, GATE VALVES, QUICK COUPLERS, BOXES, MAINLINE, REMOTE CONTROL DRIP VALVES, LATERAL LINES, DRIP EMITTERS AND FLUSH VALVES.
- CONTRACTOR SHALL THOROUGHLY READ AND BECOME FAMILIAR WITH THE PROJECT SPECIFICATIONS AND INSTALLATION DETAILS FOR THIS AND RELATED WORK PRIOR TO CONSTRUCTION. COORDINATE AND MARKING (CALL BEFORE YOU DIG) OF UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION.
- DO NOT PROCEED WITH THE INSTALLATION OF THE IRRIGATION SYSTEM WHEN IT IS DISCOVERED IN THE FIELD THAT OBSTRUCTIONS OR GRADE DIFFERENCES EXIST THAT MIGHT NOT HAVE BEEN CONSIDERED IN THE DESIGN AND ENGINEERING PROCESS OR IF DISCREPANCIES IN CONSTRUCTION DETAILS, LEGEND, NOTES, OR SPECIFICATIONS ARE DISCOVERED. BRING ALL SUCH DISCREPANCIES AND OR OBSTRUCTIONS TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE IN WRITING PRIOR TO PROCEEDING WITH CONSTRUCTION.
- INSTALL ALL POWER TO THE IRRIGATION CONTROL SYSTEM IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE AND ALL APPLICABLE LOCAL ELECTRICITY CODES.
- CONTRACTOR SHALL, AT THE DIRECTION OF THE CITY, COORDINATE FOR THE MODIFICATION OF THE EXISTING PRIVATELY SUPPLIED AND CONTROLLED IRRIGATION SYSTEM WITH THE PROPERTY OWNER SOUTH OF THE PROJECT.
- IRRIGATION LAYOUT IS DRAWN FOR GREATEST CLARITY. MAINLINE AND OTHER COMPONENTS ARE SHOWN UNDER SOME PAVED AREAS, BUT SHALL BE INSTALLED IN LANDSCAPE AREAS WHENEVER POSSIBLE. VALVE BOXES SHALL BE LOCATED OUTSIDE OF TRAFFIC AREAS (AWAY FROM DOMINATE VIEW) AND POSITIONED IN PLANTER AREAS TO CAUSE THE LEAST POSSIBLE CONFLICT WITH ROOT BALLS OF TREES AND SHRUBS. CARE SHALL BE TAKEN NOT TO ELIMINATE PLANTS UNLESS ABSOLUTELY NECESSARY, AND ONLY WITH PRIOR APPROVAL OF LANDSCAPE ARCHITECT.
- CONTRACTOR SHALL INSTALL 100% COVERAGE SYSTEM, FULLY ADJUSTED TO PREVENT OVER SPRAY AND RUNOFF ONTO WALLS AND PAVED SURFACES. CONTRACTOR SHALL MAINTAIN 100% COVERAGE AND ADJUSTMENT OF SYSTEM UNTIL FINAL ACCEPTANCE BY OWNER.
- CONTRACTOR SHALL PROVIDE IRRIGATION AS-BUILT NOTES PRIOR TO FINAL ACCEPTANCE BY OWNER. AS-BUILT NOTES SHALL BE CLEARLY INDICATED AND COLOR CODED. AS-BUILT NOTES SHALL BE A COMPLETE AND AN ACCURATE REPRESENTATION OF ALL SIGNIFICANT CHANGES, INCLUDING LOCATIONS OF VALVES, MAINLINES, LATERAL LINES, NETSPRIM ZONES, AND SPRAY HEADS. FINAL RECORD DRAWINGS SHALL BE PREPARED IN AUTOCAD FORMAT BY THE CONTRACTOR.
- INSTALL SLEEVING BASED ON THE SIZING GUIDE BELOW.

PIPE SIZE	REQUIRED SLEEVING
1" TO 2" PVC MAINLINE	1 - 4" SCH 40 PVC SLEEVE
1/2" PVC LATERAL	1 - 3" SCH 40 PVC SLEEVE
3/4" TO 1 1/4" PVC LATERAL	1 - 2" SCH 40 PVC SLEEVE
- WIRE QUANTITY - REQUIRED SLEEVING

WIRE QUANTITY	REQUIRED SLEEVING
1 - 25 CONTROL WIRES	1 - 2" SCH 40 PVC SLEEVE
26 - 50 CONTROL WIRES	2 - 2" SCH 40 PVC SLEEVE
- CONTRACTOR TO PROVIDE ONE ADDITIONAL 2" SLEEVE AND ONE ADDITIONAL 4" SLEEVE WHERE IRRIGATION LINES CROSS ROADWAYS.

A-1	CONTROLLER/STATION NUMBER
1"	VALVE SIZE
10	APPROX. GPM

IRRIGATION SCHEDULE						
DRIP						
SYMBOL	DESCRIPTION	USE	MODEL	SPACING	REMARKS	DETAIL/L.4.01
---	3/4" DISTRIBUTION	TREES, SHRUBS	SALCO PC-AR-075-IPS OR EQ.	8' O.C. MAX	12" COVER	6,7,12,14
---	1" DISTRIBUTION	PALMS	SALCO PC-AR-100-IPS OR EQ.	8' O.C. MAX	12" COVER	6,7,12,14
NOT SHOWN	1/4" DISTRIBUTION	SHRUBS/TREES	RAINBIRD: DT-2025 OR EQUAL	12" O.C. MIN.	4" MAX LENGTH	6,7,12,14
NOT SHOWN	DRIP EMITTERS	SHRUBS/TREES	AGRFM PCP-10 OR EQUAL	PER DETAIL	KEEP OFF PLANT STEM	11,12,14

PIPE AND WIRE	
SYMBOL	MANUFACTURER - MODEL NUMBER
---	MAINLINE: PVC SCH. 40 1" DIA. UNLESS OTHERWISE NOTED ON PLAN, 18" MINIMUM COVER
---	3/4" LATERAL LINE UNLESS OTHERWISE NOTED ON PLAN, PVC SCH. 40, 12" MIN. COVER
---	SLEEVES, PVC SCH. 40, SIZE PER PLAN, 18" MINIMUM COVER - SEE NOTES 5 & 6
NOT SHOWN	CONTROL WIRE, UF DIRECT BURIAL, SOLID COPPER, 12 GA. COMMON, 1/4 GA. PILOT

EQUIPMENT	
KEY	DESCRIPTION
⊠	IRRIGATION CONTROLLER: RAINBIRD ESP-128ITE-S, IRRIGATION CONTROLLER, STAINLESS STEEL FEDESTAL, 12 STATION-WITH INTEGRATED CCU AND FULL MAXICOM CONNECTIVITY
⊏	BACKFLOW PREVENTER: FEBCO B25 YA-1" REDUCED PRESSURE BACKFLOW PREVENTER (OR EQUAL) WITH INSULATED TAN COLOR FIBERGLASS ENCLOSURE (HOTBOX)
MV	MASTER VALVE: 1" BERMAD 410 NORMALLY OPEN OR EQUAL. INSTALL PER MFR. RECOMMENDATIONS
⊕	QUICK COUPLER: RAINBIRD 33DLRC, 3/4" BRONZE QUICK COUPLER (OR EQUAL) WITH TWO MATCHING KEYS & HOSE SWIVELS
FS	FLOW SENSOR: 1" RAINBIRD FS-1002B (OR EQ.) INSTALL PER MFR. RECOMMENDATIONS
⊙	DRIP VALVE ASSEMBLY: RAINBIRD 100FEB OR EQUAL WITH SENNINGER PRESSURE REGULATOR PRL 25 OR EQUAL AND INLINE RAINBIRD RBY100MPTX OR EQUAL

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**BOULDER PLAZA PARK
CITY OF LAS VEGAS**

IRRIGATION PLAN

TITLE: SHEET: SCALE: PROJECT NO: DRAWN BY: DESIGNED BY: CHECKED BY: RNL/KS/SM GNA GNA 06-0133

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