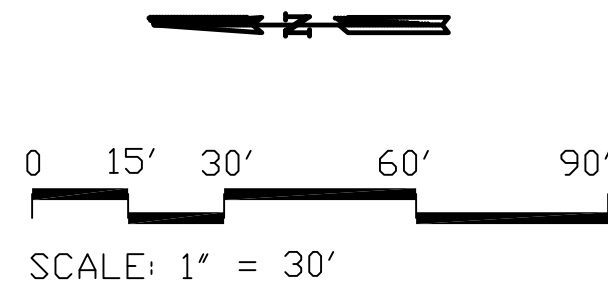


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IRRIGATION NOTES

- WATER PRESSURE:** THE WATER PRESSURE AT THIS SITE HAS BEEN MEASURED AND NOTED ON DRAWING BY THE LANDSCAPE ARCHITECT. THE CONTRACTOR SHALL VERIFY WATER PRESSURE AT THE SYSTEM AVAILABLE PRIOR TO BEGINNING INSTALLATION OF IRRIGATION SYSTEM.
- SPECIFICATIONS AND DETAIL DRAWINGS:** THE CONTRACTOR SHALL REFER TO THE CITY OF ALBUQUERQUE'S STANDARD SPECIFICATIONS AND DETAIL DRAWINGS FOR IRRIGATION CONSTRUCTION, IN ADDITION TO ANY DISCREPANCY BETWEEN SPECIFICATIONS AND IRRIGATION DESIGN. THE CONTRACTOR SHALL NOTIFY THE PROJECT MANAGER IN WRITING. THE CONTRACTOR SHALL NOT PROCEED WITH INSTALLATION OF CONFLICTING IRRIGATION COMPONENTS UNTIL HE RECEIVES A CORRECTION IN WRITING FROM THE PROJECT MANAGER.
- PROXIMITY OF PIPING TO SHRUBS AND TREES:** THE PIPING ROUTE SHOULD BE SHOWN ON THE SCHEDULE AND MAY REQUIRE FIELD ADJUSTMENTS BY THE CONTRACTOR, WHEN POSSIBLE THE CONTRACTOR SHALL INSTALL PIPING OUTSIDE OF ROOTZONE OF SHRUBS AND TREES.
- IRRIGATION SATELLITE:** THE CONTRACTOR SHALL HAVE A RADIO SIGNAL STRENGTH FOR SCORPIO SATELITES. THE CONTRACTOR SHALL VERIFY PROPER RADIO COMMUNICATION FROM IRRINTE CONTROLLER LOCATION TO PROPOSED SCORPIO CONTROLLER LOCATION PRIOR TO THE INSTALLATION OF THE SCORPIO CONTROLLER. THE CONTRACTOR SHALL CONTACT WATER BUREAU OF IRRIIGATION FOR THE RAINBIRD FOR THIS SERVICE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH THE RADIO SIGNAL STRENGTH-SURVEY.
- BUBBLER CHECK VALVES:** THERE MAY BE LOW-HEAD DRAINAGE AS SOME OF THE BUBBLERS AT IT IS EXPECTED THAT THERE WILL BE LOW-HEAD CONDING APPEAR. THE CONTRACTOR SHALL INSTALL A RAINBIRD #ACV-050 CHECK VALVE ON ALL EFFECTED BUBBLERS. FOR BID OR PRICING PURPOSES THE CONTRACTOR SHALL ASSUME THE INSTALLATION OF CHECK VALVES ON ALL BUBBLERS AND INCLUDE THESE COSTS IN HIS BID.
- ROAD CROSSINGS:** THE CONTRACTOR SHALL BORE ALL SLEEVE PIPE WHEN CROSSING PAVED SURFACES.
- PROXIMITY OF PIPING AND WIRING TO LANDSCAPE PODS:** THE CONTRACTOR SHALL INSTALL MAINLINE AND WIRING AS CLOSE TO THE LANDSCAPE POD AS POSSIBLE IN ORDER TO PROVIDE ROOM FOR FUTURE ROADWAY EXPANSION.
- MAINLINE EXPANSION JOINTS:** BECAUSE OF THE EXCEPTIONAL DISTANCE OF SOLVENT-WELD MAINLINE PIPE, IT IS RECOMMENDED THAT THE CONTRACTOR INSTAL LOW-PRESSURE EXPANSION COUPLINGS IN 200' INTERVALS TO ACCOMMODATE EXPANSION AND CONTRACTION OF PIPE.

IRRIGATION COMPONENT @ 20.0 GPM TO WORST CASE		
SERVICE LINE FEEDING METER: <20' OF 2" TYPE-K COPPER (1.12 psi/100')		1.12 PSI
WATER METER: 2" CITY WATER METER (SENSUS SR SERIES)		2.00 PSI
BACKFLOW DEVICE: FEBCO 2" RP		12.0 PSI
FLOW METER: 2" MASTER METER INTERMEDIATE MULTIJET		4.00 PSI
MASTER VALVE: RAINBIRD 1.5" PEB SERIES (3.9 psi @ 20 gpm)		3.9 PSI
MAINLINE PIPE: 691' OF 2" SCH-40 PVC (.32 psi/100' @ 20 gpm)	DISTANCE TO HIGHEST FLOW VALVE	2.21 PSI
MAINLINE PIPE: 1098' OF 1 1/2" SCH-40 PVC (1.08 psi/100' @ 20 gpm)	DISTANCE TO HIGHEST FLOW VALVE	11.85 PSI
MAINLINE PIPE: 1356' OF 2" SCH-40 PVC (1.17 psi/100' @ 13 gpm)	DISTANCE TO HIGHEST FLOW VALVE UPHILL	2.3 PSI
ZONE VALVE: RAINBIRD 1" PEB SERIES (2.9 psi @ 20 gpm) VALVE #A-8		2.90 PSI
ZONE VALVE: RAINBIRD 1" PEB SERIES (2.0 psi @ 13 gpm) VALVE #A-1		2.0 PSI
LATERAL PIPE FRICTION LOSS: (ESTIMATE 4.0 psi)		4.00 PSI
DOUBLE-CHECK BACKFLOW 2" (AS REQUIRED BY NM WATER UTILITIES)		5.00 PSI
ELEVATION: 42' (DOWNHILL SLOPE TO HIGHEST FLOW VALVE) VALVE #A-8		+18.18 PSI
ELEVATION: 38' (UPHILL SLOPE TO VALVE #A-1)		-16.45 PSI
	PRESSURE LOSSES TO VALVE #A-8 :	45.08 PSI
	PRESSURE LOSSES TO VALVE #A-1 :	48.87 PSI
	EXPECTED WATER PRESSURE AT TAP:	55.00 PSI
	EXPECTED BUBBLER OPERATING PRESSURE @ LOWEST POINT:	74.20 PSI
	EXPECTED BUBBLER OPERATING PRESSURE @ HIGHEST POINT:	52.23 PSI
PUMP TO BE SET @ 50 PSI BOOST		

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**MORROW
REARDON
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