

EXISTING 2" IRRIGATION WATER METER.
 EXISTING WATER PRESSURE: 117 P.S.I.
 SYSTEM DESIGN PRESSURE: 95 P.S.I.
 PEAK IRRIGATION DEMAND: 84 G.P.M.

APPROXIMATE LOCATION OF 120 ELECTRICAL POWER SOURCE FOR AUTOMATIC CONTROLLER "A". VERIFY EXACT LOCATION AT JOBSITE PRIOR TO CONSTRUCTION.

VALCON 40061 - 24 STATION AUTOMATIC SPRINKLER CONTROLLER "A" MOUNTED WITHIN A LE NEUR TYPE "Y" CONTROLLER ENCLOSURE. PAINT CONTROLLER ENCLOSURE INSIDE AND OUTSIDE WITH TWO (2) COATS OF RUST RESISTANT PAINT PRIOR TO INSTALLATION OF AUTOMATIC CONTROLLER. COLOR AND TYPE OF PAINT SHALL BE APPROVED BY THE OWNER'S AUTHORIZED REPRESENTATIVE.

THESE AREAS HAVE AN EXISTING IRRIGATION SYSTEM OPERATED MANUALLY. CONTROLLER WIRES HAVE BEEN STUBBED TO THESE MANUAL VALVES WHICH ARE LOCATED BEHIND THE BACKFLOW PREVENTER. CONTRACTOR IS RESPONSIBLE FOR OPERATING THIS SYSTEM AUTOMATICALLY FROM THE CONTROLLER, AND PROVIDING COMPLETE COVERAGE.

EXISTING CAPPED 1.5" MAIN LINE FOR USE ON FINAL PHASE. CONTROLLER WIRES HAVE BEEN STUBBED TO THIS POINT.

EXISTING CAPPED 1.5" MAIN LINE FOR USE ON FINAL PHASE. CONTROLLER WIRES HAVE BEEN STUBBED TO THIS POINT.

IRRIGATION POINT OF CONNECTION CONNECT TO EXISTING 2" BACKFLOW PREVENTER.

METER, BACKFLOW, MAIN LINE, AND CONTROLLER WIRES ARE EXISTING.

EXISTING CAPPED MAIN LINE FOR USE ON FINAL PHASE. WIRES STUBBED TO THIS POINT.

THIS SECTION OF MAIN LINE IS NOT EXISTING.

VALVES A1 AND A2 ARE EXISTING WITH STUBBED WIRES AND OPERATE MANUALLY. CONTRACTOR IS RESPONSIBLE FOR OPERATING THIS SYSTEM AUTOMATICALLY FROM THE CONTROLLER, AND PROVIDING COMPLETE COVERAGE.

NOTE:

THE IRRIGATION SYSTEM IS SUBSTANTIALLY INSTALLED PER THIS PLAN. THE CONTRACTOR SHALL REPLACE, REPAIR, OR DO WHATEVER IS REQUIRED TO COMPLETE THE IRRIGATION SYSTEM. THE CONTRACTOR IS RESPONSIBLE TO MEET THE INTENT OF THE PLANS AND SPECIFICATIONS.

CONTRACTOR IS RESPONSIBLE TO COORDINATE WITH THE CITY TO ENERGIZE THE EXISTING CONTROLLER.

*** NOTE**

ALL EXISTING MANUAL VALVES (INDICATED BY NOTES ON THIS PLAN) ARE TO BE REPLACED WITH AUTOMATIC VALVES PER LEGEND. CONTRACTOR IS TO RETURN THESE MANUAL VALVES TO THE CITY.

THIS LATERAL LINE IS BURIED UNDER 6" OF SOIL AND IS TO BE PROPERLY EXTENDED BY THE CONTRACTOR.

THIS ROTOR IS TO BE REPLACED.

LEGEND

SYMBOL	MANUFACTURER	MODEL NO.	DESCRIPTION	NOZZLE	RADIUS	G.P.M.	P.S.I.	PATTERN
	THOMPSON	186RC	RUB. COV. ROTOR POP-UP	"8"	55 FT.	12.0	50	FULL CIRCLE
		187RC		"8"	55 FT.	12.0	50	175° OF NOTED
	TORO	320-14-07	1 1/2" POP-UP RAIN PPO	"7"	48	6.8	50	80°
		324-12-07	1" POP-UP RAIN PPO	"7"	48	6.8	50	HALF CIRCLE
		308-00-02	1" POP-UP STREAM ROTOR	"2"	24	1.7	50	QTR.
		304-00-02	3/4" POP-UP STREAM ROTOR	"2"	24	1.7	50	QTR.
	NELSON	6260Q	6" POP-UP SPRAY HEAD	"11"	15	0.9	50	QTR.
		6260Q		"11"	15	0.9	50	QTR.
		6260Q		"11"	15	0.9	50	QTR.
		6260Q		"11"	15	0.9	50	QTR.
	VALCON	40061	CONSERVATORIAL 24 STATION CUSTOM CONTROL ASSEMBLY EQUIPPED WITH MULTIPLE RECYLEER AND 1 TO 30 MINUTE TIMING - MOUNT WITHIN A LE NEUR TYPE "Y" VANDAL RESISTANT CONTROLLER ENCLOSURE.					
	VALCON	RCV-E	SERIES ELECTRIC CONTROL VALVE (DRILLED AND TAPPED FOR INSTALLATION OF FUTURE OPERATIONAL TRANSDUCER) - SIZE NOTED					
	RAINBIRD	33LVC	QUICK COUPLING VALVE WITH LOCKING VINYL COVER - 3/4"					
	NISCO	T-113	GATE VALVE - LINE SIZE					
	GRENHOLD	2280AP	PRESSURE REDUCING VALVE SET @ 95 P.S.I. - 2"					
			PRESSURE MAIN LINE PIPING - PVC CLASS 315 FOR SIZES 2" AND LARGER AND PVC SCHEDULE 40 FOR SIZES 1-1/2" AND SMALLER - SIZE NOTED					
			NON-PRESSURE LATERAL LINE PIPING - PVC CLASS 200 - SIZE NOTED					
			INDICATES AUTOMATIC SPRINKLER CONTROLLER STATION NUMBER AND FLOW IN G.P.M.					
			INDICATES ELECTRIC CONTROL VALVE SIZE					
			INDICATES EXISTING MAIN LINE					



KAMMEYER & PARTNERS, INC.
 PLANNING ARCHITECTURE
 LANDSCAPE ARCHITECTURE

d. d. Pagano, inc.
 IRRIGATION CONSULTANT
 LANDSCAPE ARCHITECTURE

IRRIGATION PLAN

DEL CERRO PARK
 CITY OF RANCHO PALOS VERDES

Date: 10/20/11
 Revisions:
 no. date by
 1 10/20/11 JES

Sheet:
 L-2 of 3

Job No.
 104911

EARL FILE CORP. IRVINE, CA
 HANDED EPDM
Del Cerro Park 12.01
 Irrigation Plan Sheet L-3 of 3

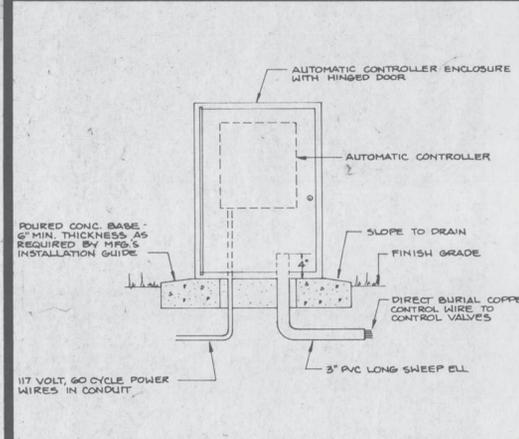
GENERAL IRRIGATION NOTES

1. ALL POP-UP TYPE SPRINKLER HEADS INSTALLED IN SHRUB OR GROUND COVER AREAS SHALL BE INSTALLED SO THAT THE TOP OF THE SPRINKLER HEAD IS 1" ABOVE FINISH GRADE.
2. ALL POP-UP TYPE SPRINKLER HEADS INSTALLED IN LAWN AREAS SHALL BE INSTALLED SO THAT THE TOP OF THE SPRINKLER HEAD IS FLUSH WITH ADJACENT SIDEWALK OR CURB.
3. IN OPEN SEEDED LAWN AREAS SET TOP OF POP-UP TYPE SPRINKLER HEADS 3" ABOVE FINISH GRADE UNTIL LAWN IS ESTABLISHED. LOWERING OF ALL LAWN HEADS BY THE IRRIGATION CONTRACTOR SO THAT THE TOP OF THE SPRINKLER HEAD IS 3/4" ABOVE FINISH GRADE, SHALL BE ACCOMPLISHED WITHIN TEN (10) DAYS AFTER NOTIFICATION BY THE OWNER'S AUTHORIZED REPRESENTATIVE.
4. ALL SPRINKLER HEADS SHALL BE SET PERPENDICULAR TO FINISH GRADE OF THE AREA TO BE IRRIGATED UNLESS OTHERWISE DESIGNATED ON THE PLANS.
5. THE SPRINKLER SYSTEM DESIGN IS BASED ON THE MINIMUM OPERATING PRESSURE AND THE MAXIMUM FLOW DEMAND SHOWN ON THE IRRIGATION DRAWINGS AT EACH POINT OF CONNECTION. THE IRRIGATION CONTRACTOR SHALL VERIFY WATER PRESSURE PRIOR TO CONSTRUCTION. REPORT ANY DIFFERENCE BETWEEN THE WATER PRESSURE INDICATED ON THE DRAWINGS AND THE ACTUAL PRESSURE READING AT THE IRRIGATION POINT OF CONNECTION TO THE OWNER'S AUTHORIZED REPRESENTATIVE.
6. 120 VOLT ELECTRICAL POWER OUTLET AT THE AUTOMATIC CONTROLLER LOCATION SHALL BE PROVIDED BY OTHERS. IT SHALL BE THE RESPONSIBILITY OF THE IRRIGATION CONTRACTOR TO MAKE THE FINAL HOOK-UP FROM THE ELECTRICAL OUTLET TO THE AUTOMATIC CONTROLLER.
7. THIS DESIGN IS DIAGRAMMATIC. ALL PIPING, VALVES, ETC. SHOWN WITHIN PAVED AREAS IS FOR DESIGN CLARIFICATION ONLY AND SHALL BE INSTALLED IN PLANTING AREAS WHERE POSSIBLE. AVOID ANY CONFLICTS BETWEEN THE SPRINKLER SYSTEM, PLANTING AND ARCHITECTURAL FEATURES.
8. THE IRRIGATION CONTRACTOR SHALL FLUSH AND ADJUST ALL SPRINKLER HEADS FOR OPTIMUM PERFORMANCE AND TO PREVENT OVERSPRAY ONTO WALKS, ROADWAYS AND/OR BUILDINGS AS MUCH AS POSSIBLE. THIS SHALL INCLUDE SELECTING THE BEST DEGREE OF ARC TO FIT THE EXISTING SITE CONDITIONS AND TO THROTTLE THE FLOW CONTROL AT EACH VALVE TO OBTAIN THE OPTIMUM OPERATING PRESSURE FOR EACH SYSTEM.
9. DO NOT WILLFULLY INSTALL THE SPRINKLER SYSTEM AS SHOWN ON THE DRAWINGS WHEN IT IS OBVIOUS IN THE FIELD THAT OBSTRUCTIONS, GRADE DIFFERENCES 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 THE OWNER'S AUTHORIZED REPRESENTATIVE. IN THE EVENT THIS NOTIFICATION IS NOT PERFORMED, THE IRRIGATION CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ANY REVISIONS NECESSARY.
10. INSTALL ALL MATERIALS AND EQUIPMENT AS SHOWN IN DETAILS. USE TEFLON TAPE OR TEFLON PIPE DOPE ON ALL MALE PIPE THREADS ON ALL SPRINKLER SWING JOINT AND VALVE ASSEMBLIES.
11. IT IS THE RESPONSIBILITY OF THE IRRIGATION CONTRACTOR TO FAMILIARIZE HIMSELF WITH ALL GRADE DIFFERENCES, LOCATION OF WALLS, RETAINING WALLS, ETC. HE SHALL COORDINATE HIS WORK WITH THE GENERAL CONTRACTOR AND OTHER SUB-CONTRACTORS FOR THE LOCATION AND THE INSTALLATION OF PIPE SLEEVES THROUGH WALLS, UNDER ROADWAYS, PAVING, STRUCTURES, ETC.
12. IN ADDITION TO THE CONTROL WIRE SLEEVES SHOWN ON THE DRAWINGS THE IRRIGATION CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION OF CONTROL WIRE SLEEVES OF SUFFICIENT SIZE UNDER ALL PAVED AREAS.

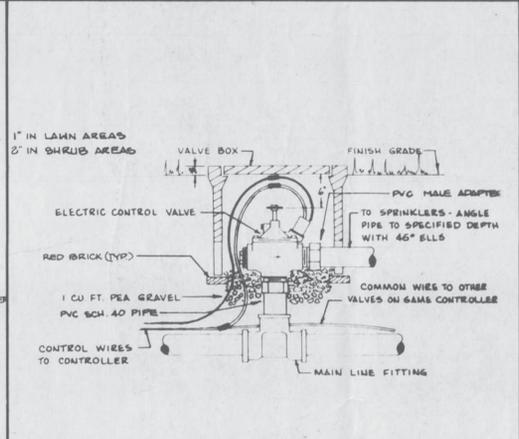
KAMMEYER & PARTNERS, INC.
 PLANNING ARCHITECTURE
 LANDSCAPE ARCHITECTURE
 SUITE 1000
 685 TOWN CENTER DR.
 COSTA MESA, CALIFORNIA 92626
 (714) 261-9771

IRRIGATION DETAILS

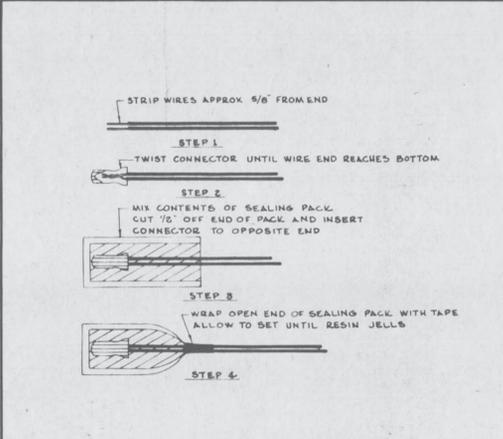
DEL CERRO PARK
 CITY OF RANCHO PALOS VERDES



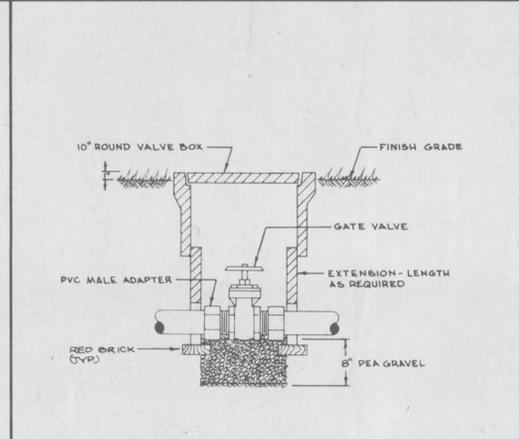
1 AUTOMATIC CONTROLLER



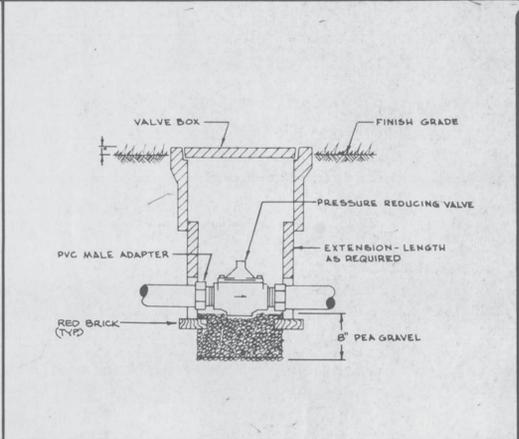
2 ELECTRIC CONTROL VALVE



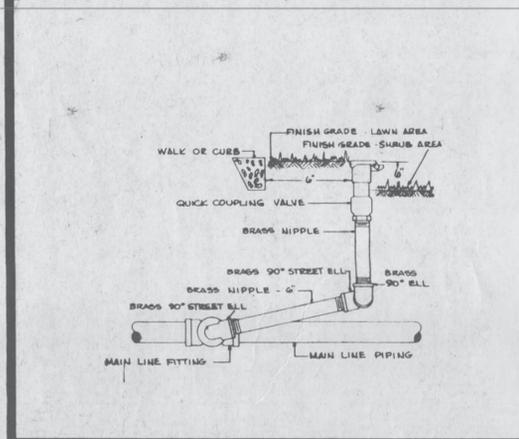
3 WIRE CONNECTOR



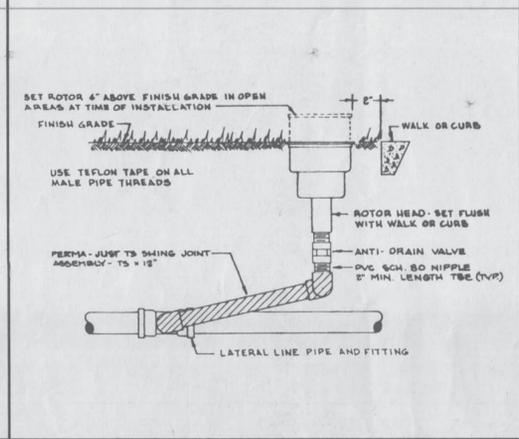
4 GATE VALVE



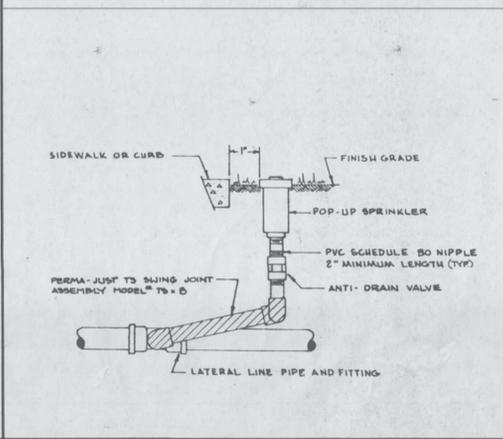
5 PRESSURE REDUCING VALVE



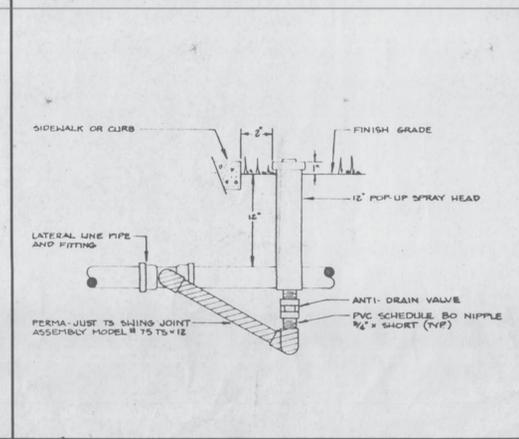
6 QUICK COUPLING VALVE



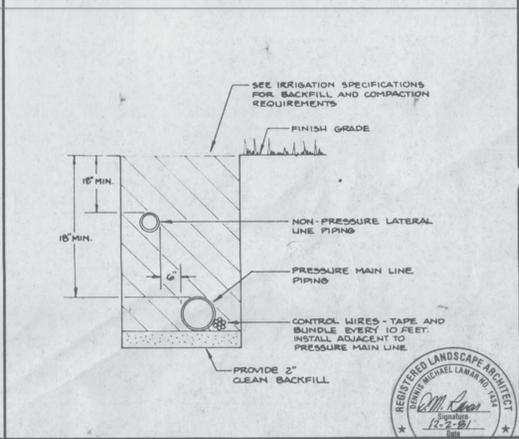
7 POP-UP ROTOR HEAD



8 POP-UP SPRAY



9 12" POP-UP SPRINKLER



10 TRENCHING

Date: 2 DEC 01

Revisions:

no	date	by

Sheet:
L-3 of 3
 Job No.
 104911

