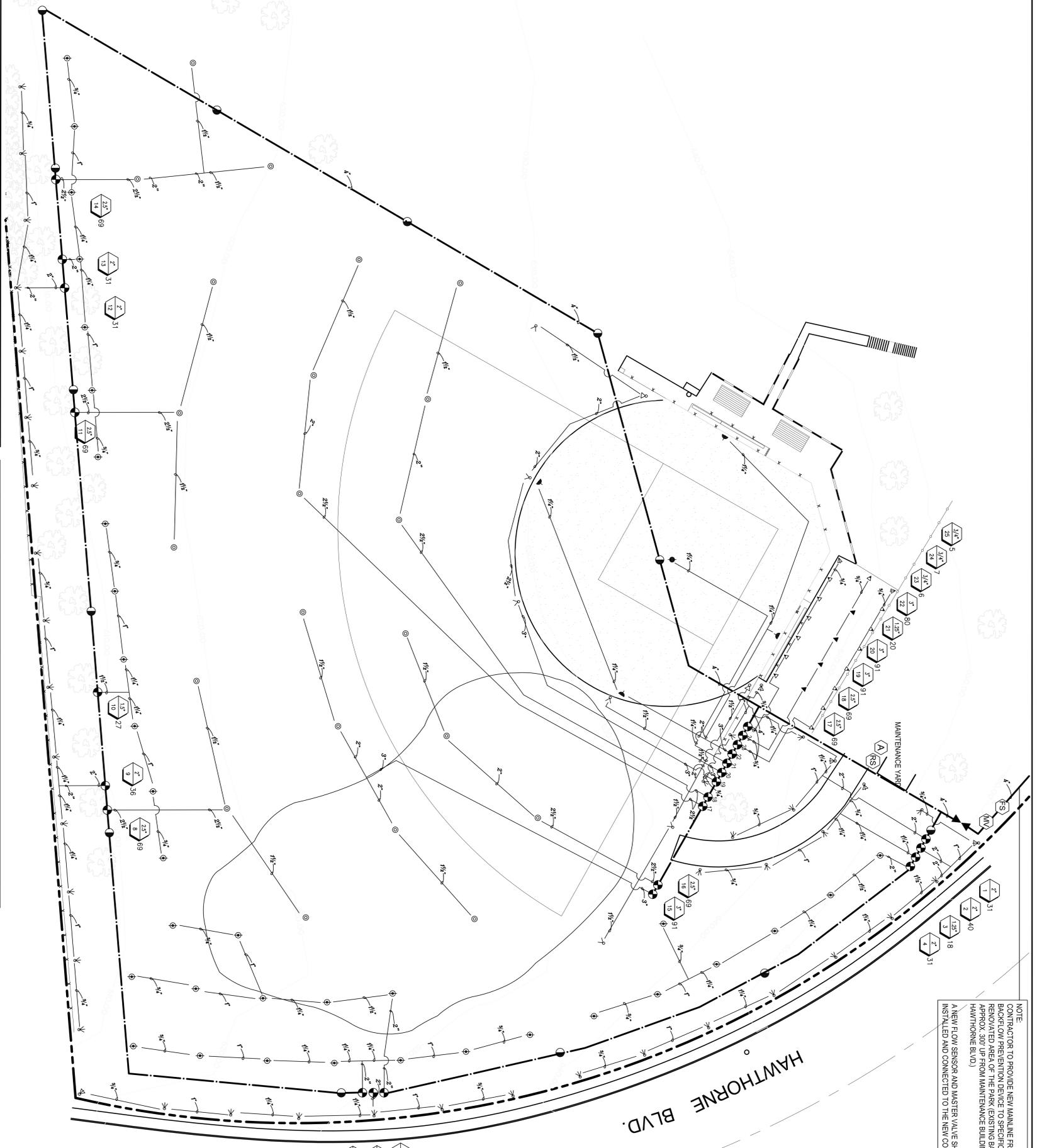


NOTE:
CONTRACTOR TO PROVIDE NEW MAINLINE FROM EXISTING BACKFLOW PREVENTION DEVICE TO SPECIFICALLY SERVICE THIS RENOVATED AREA OF THE PARK (EXISTING BACKFLOW DEVICE IS APPROX. 300' UP FROM MAINTENANCE BUILDING ALONG HAWTHORNE BLVD.)
A NEW FLOW SENSOR AND MASTER VALVE SHALL BE PROVIDED, INSTALLED AND CONNECTED TO THE NEW CONTROLLER.



- IRRIGATION NOTES:**
1. THIS IRRIGATION DESIGN IS DIAGRAMMATIC. ALL PIPING, VALVES, ETC. SHOWN WITHIN PAVED AREAS ARE FOR DESIGN CLARIFICATION ONLY AND SHALL BE INSTALLED IN PLANTING AREAS WHEREVER POSSIBLE. SEE DETAILS FOR VERTICAL AND HORIZONTAL ALIGNMENT OF ALL PIPING AND EQUIPMENT.
 2. SET ALL VALVES AND QUICK COUPLERS NEXT TO WALKS OR PAVED SURFACES.
 3. ALL SPRINKLER HEADS ARE TO HAVE TRIPLE SWING JOINTS EXCEPT WHERE NOTED ON PLANS.
 4. PIPE SIZES SHALL CONFORM TO THOSE SHOWN ON THE DRAWINGS. NO SUBSTITUTIONS OF SMALLER PIPE SIZES SHALL BE PERMITTED, BUT SUBSTITUTIONS OF LARGER SIZES MAY BE APPROVED. ALL DAMAGED AND RELATED PIPE SHALL BE REMOVED FROM THE SITE AT THE TIME OF THE SAID REJECTION.
 5. FINAL LOCATION OF THE AUTOMATIC CONTROLLER AND WEATHER AND RAIN SENSOR SHALL BE APPROVED BY THE LANDSCAPE ARCHITECT AND OWNER'S REPRESENTATIVE.
 6. PROVIDE SEPARATE WIRE COLORS FOR EACH IRRIGATION VALVE FROM CONTROLLER TO VALVES.
 7. PVC SHALL BE LAID WITH HORIZONTAL CONNECTIONS.
 8. SCHEDULE 40 (OR ABOVE) ON 10" OR PVC AND CLASS 200 CALL INSPECTOR PRIOR TO STARTING TEST.
 9. REPORT PRESSURE READING TO LANDSCAPE ARCHITECT OR RECORDOR PRIOR TO STARTING CONSTRUCTION. ALERT I.D. NUMBER BY CALLING 1-800-422-4133. TWO (2) WORKING DAYS SHALL BE ALLOWED AFTER THE ID NUMBER IS OBTAINED AND BEFORE THE EXCAVATION WORK IS STARTED SO THAT UTILITY OWNERS CAN BE NOTIFIED.
 10. ALL SPRINKLER HEADS SHALL BE SET PERPENDICULAR TO FINISH GRADE UNLESS OTHERWISE SPECIFIED.
 11. THE CONTRACTOR SHALL FLUSH AND ADJUST ALL SPRINKLER HEADS AND VALVES FOR OPTIMUM COVERAGE WITH ZERO OVER SPRAY (RUN-OFF) ONTO WALKS, STREETS, ETC. THE CITY PROHIBITS OVERSPRAY ONTO ROADS AND SIDEWALKS.
 12. ADJUST RADIIUS AND ARC FOR FULL COVERAGE WITHOUT OVERSPRAY.
 13. IT IS THE RESPONSIBILITY OF THE IRRIGATION CONTRACTOR TO FAMILIARIZE HIMSELF WITH THE ALL TERS DAMAGED BY HIS WORK. HE SHALL COORDINATE HIS WORK WITH OTHER CONTRACTORS FOR THE LOCATION AND INSTALLATION OF PIPE STEERS AND LATERALS UNDER ROADWAYS AND PAVING, ETC. THE SPRINKLER SYSTEM DESIGN IS BASED ON A SYSTEM DESIGN PRESSURE INDICATED IN THE PRESSURE LOSS CALCULATION AND MAXIMUM ALLOWABLE OPERATING PRESSURE BETWEEN WATER PRESSURE INDICATED ON THE DRAWINGS AND THE ACTUAL PRESSURE READING AT THE IRRIGATION POINT OF CONNECTION TO THE ARCHITECT.
 14. DO NOT WILLFULLY INSTALL THE SPRINKLER SYSTEM AS SHOWN ON THE DRAWINGS WHEN IT IS OBVIOUS IN THE FIELD THAT THERE ARE UNKNOWN OBSTRUCTIONS OR GRADE 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 ARCHITECT. IN THE EVENT THAT THIS NOTIFICATION IS NOT GIVEN, THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ANY NECESSARY REVISIONS.
 15. ALL SPRINKLER EQUIPMENT NOT OTHERWISE DETAILED OR SPECIFIED SHALL BE INSTALLED AS PER MANUFACTURERS' RECOMMENDATIONS AND SPECIFICATIONS.
 16. THE INTENT OF THE DESIGN IS TO PROVIDE 100% COVERAGE TO ALL PLANTING AREAS. AS PART OF THE SCOPE OF WORK, PROVIDE ANY ADDITIONAL HEADS, SPECIAL NOZZLES, OR PATTERNS TO ACHIEVE PROPER COVERAGE WITH A MINIMUM OF OVER SPRAY AND NO ADDITIONAL COST TO THE OWNER.
 17. NEW SLEEVING TO BE INSTALLED 3" BELOW GRADE UNDER ROADWAYS. DEPTH TO LOCATE ALL EXISTING UTILITY LINES.
 18. EXISTING UTILITY LINES. IT IS THE CONTRACTOR'S RESPONSIBILITY TO LOCATE ALL EXISTING UTILITY LINES.
 19. CURB OR GUTTER WHICH SHALL BE PROTECTED IN PLACE.
 20. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REPAIR ANY DAMAGE TO EXISTING UTILITIES PAVEMENT OR LANDSCAPE TO REMAIN CAUSED BY CONTRACTOR'S ACTIONS.
 21. LOCATE "AS-BUILT" VALVE CHART IN THE INSTALLED IRRIGATION SYSTEM FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF ACCEPTANCE OF THE WORK. SHOULD ANY TROUBLE DEVELOP WITHIN THE TIME SPECIFIED DUE TO INFERIOR OR FAULTY MATERIAL OR WORKMANSHIP, THE TROUBLE SHALL BE CORRECTED BY THE CONTRACTOR WITHOUT EXPENSE TO THE OWNER.
 22. CHECK VALVES SHALL BE INSTALLED IN LINE OR UPHEAD TO PREVENT LOW HEAD DRAINAGE.
 23. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION REGARDING THIS SECTION OF WORK.
 24. WHEN INSTALLATION OF THE IRRIGATION SYSTEM IS COMPLETED, PERFORM A COVERAGE TEST IN THE PRESENCE OF OWNER'S REPRESENTATIVE AND LANDSCAPE ARCHITECT TO DETERMINE THAT COVERAGE OCCURS DUE TO DEVIATIONS FROM PLANS, OR SITE CONDITIONS DIFFER AND THE SYSTEM HAS BEEN INSTALLED WITHOUT NOTIFYING THE OWNER'S REPRESENTATIVE. THE IRRIGATION CONTRACTOR SHALL PROVIDE NECESSARY MATERIAL AND PERFORM WORK TO CORRECT ALL INADEQUACIES WITHOUT ADDITIONAL COST. THESE TESTS AND CORRECTIONS SHALL BE ACCOMPLISHED BEFORE ANY SHRUBS, GROUND COVER OR TURF IS PLANTED.
 25. THIS SYSTEM CONNECTS TO AN EXISTING IRRIGATION SYSTEM AND POINT-OF-CONNECTION, A NEW FLOW SENSOR MASTER VALVE, SHUT-OFF VALVES, REMOVE CONTROL VALVES, QUICK COUPLERS AND A NEW CONTROLLER SHALL BE PROVIDED UNDER THE SCOPE OF WORK OF THE FIELD RENOVATIONS.

POINT-OF-CONNECTION

MEMBER SIZE: EXISTING SIZE UNKNOWN
STATIC PRESSURE (HIGHLIGHT): STATIC
CONTRACT: EMILIO BLANCO, CITY OF RPW PUBLIC WORKS (310) 544-6336
SYSTEM DESIGN PRESSURE: REFER TO PRESSURE LOSS CALCULATION, SHEET L-4.
THIS IS A POTABLE SYSTEM.

IRRIGATION MAINLINE NOTE:

MAINLINE IS SHOWN OUTSIDE OF PLANTING AREA AND PROPERTY LINE FOR GRAPHIC CLARITY ONLY. MAINLINE SHALL BE INSTALLED WITHIN PROPERTY BOUNDARIES AND WITHIN PLANTING AREA WHERE POSSIBLE. WHERE MAINLINE MUST RUN UNDER PAVING OR ACROSS ROADS, INSTALL IN SCH. 40 PVC SLEEVES TWICE THE DIAMETER OF THE MAINLINE PIPE, MIN. OR AS SHOWN.

GENERAL VALVE/QUICK COUPLER NOTE:

CONTRACTOR SHALL NOT INSTALL ANY VALVES OR QUICK COUPLERS IN HARDSCAPE AREAS. CONTRACTOR SHALL INSTALL THESE ITEMS IN PLANTER AREAS ONLY.

SLEEVING NOTE:

CONTRACTOR TO TERMINATE ALL MAINLINE, WIRE AND LATERAL SLEEVES 12" BEYOND HARDSCAPE INTO PLANTER AREA. NO SLEEVES TO BE TERMINATED UNDER HARDSCAPE. CONTRACTOR WILL BE RESPONSIBLE FOR VERIFYING LIMITS OF HARDSCAPE PRIOR TO INSTALLING SLEEVES.

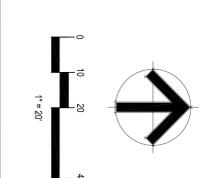
PRESSURE LOSS CALCULATION:

SEE SHEET L-4 FOR PRESSURE LOSS CALCULATION.

SYMBOL	MANUFACTURER	MODEL	DESCRIPTION	P.S.I.	ROD.	G.P.M.	PRECIP.	DETAIL
▽	HUNTER	WR-40+WR-2000-90-210	6" POPUP SPRAY HEAD (90,180)	40	20"	4.0	44 (T)	H
▽	HUNTER	WR-40+WR-2000-360	6" POPUP SPRAY HEAD	40	19"	1.47	45 (T)	H
▽	HUNTER	I-20-08-SS-LM4.5	6" POPUP MOTOR (TURF)	50	35"	4.4	80 (T)	I
▽	HUNTER	I-40-04-SS-45	4" POPUP MOTOR (OUTFIELD)	60	66"	22.7	1.16 (T)	J
▽	HUNTER	I-40-04-SS-HS-44	4" POPUP MOTOR (FIELD)	60	63"	2.0	1.12 (T)	K

SYMBOL	MANUFACTURER	MODEL	DESCRIPTION	DETAIL
▽	EXISTING	BACKFLOW ASSEMBLY	EXISTING 4" BACKFLOW ASSEMBLY VERIFY LOCATION ALONG HAWTHORNE BLVD. IN FIELD	-
▽	EXISTING	FLA-2	FLOW SENSOR (FOR FLOW BETWEEN 6" & 16" GPM) INSTALL IN CARSON VALVE BOX (OR EQUIV.)	A
▽	SUPERIOR	950 DW	RELOCATE CARSON VALVE BOX (SEE PLAN) CITY REQUEST	A
▽	SUPERIOR	950 DW	REMOVE CARSON VALVE BOX (OR EQUIV.)	B
▽	HYDROPOINT	Weathertrak ET PRO 2	42 STATION CONTROLLER WITH HEAVY DUTY STAINLESS STEEL UPGRADE KIT AND NORMALLY OPEN MAIN SWITCH WITH 3-TR. ET EVERYWHERE SERVICE	G
▽	HUNTER	RAIN-CLK	RAIN SENSOR. INSTALL IN WINDUP RESISTANT SENSOR ENCLOSURE. INSTALL PER MFG. RECOMMENDATIONS ON MAINTENANCE BUILDING. CONDUIT REQUIRED.	-
▽	RAINBIRD	44LRC	QUICK COUPLER, 1". INSTALL IN CARSON VALVE BOX	G
▽	SPEARS	TUBY-E PVC	PVC SHUT-OFF VALVE. LINE SIZE	C
▽	ANY APPROVED	SCH. 40	PRESSURE PVC MAIN LINE - SEE PLAN FOR SIZE	E
▽	ANY APPROVED	SCH. 40	NON-PRESSURE PVC LATERAL LINE - SEE PLAN FOR SIZE	E
▽	ANY APPROVED	SCH. 40	PVC SLEEVING - TWICE LINE SIZE	F

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PLANNING			
APPROVED BY			
RAY HOLLAND INTERIM DIRECTOR OF PUBLIC WORKS CITY OF RANCHO PALOS VERDES			

REVISIONS

NO.	DATE	DESCRIPTION
1	12/08/2010	ISSUED FOR PERMIT
2	12/08/2010	ISSUED FOR PERMIT
3	12/08/2010	ISSUED FOR PERMIT
4	12/08/2010	ISSUED FOR PERMIT
5	12/08/2010	ISSUED FOR PERMIT
6	12/08/2010	ISSUED FOR PERMIT
7	12/08/2010	ISSUED FOR PERMIT
8	12/08/2010	ISSUED FOR PERMIT

CHECKED BY: LW
PROJECT NO: 0808
DATE: 12/08/2010

RAY HOLLAND
INTERIM DIRECTOR OF PUBLIC WORKS
CITY OF RANCHO PALOS VERDES

PROJECT TITLE: ROBERT E. RYAN PARK FIELD IMPROVEMENTS HAWTHORNE BLVD. RANCHO PALOS VERDES, CA

SHEET TITLE: IRRIGATION PLAN

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