GENERAL IRRIGATION NOTES:

1. THE IRRIGATION CONTRACTOR SHALL PROTECT IN PLACE, AT OWN EXPENSE, ANY AND ALL EXISTING IRRIGATION THAT IS TO REMAIN AND OR KEPT IN OPERATION BEFORE, DURING, AND AFTER CONSTRUCTION. BY 'PROTECT IN PLACE', THAT IS IMPLIED TO MEAN, THAT THE IRRIGATION CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE ENTIRE IRRIGATION SYSTEM, BOTH NEW AND 'AS IS' AND TAKE WHATEVER ACTION IS NECESSARY TO MAINTAIN THE OPERATION OF THE EXISTING IRRIGATION SYSTEM.
2. THE IRRIGATION PLAN IS DIAGRAMMATIC. ALL PIPE, VALVES, ETC. SHOWN WITHIN PAVED AREAS ARE FOR PLAN CLARIFICATION ONLY AND SHALL BE INSTALLED WITHIN PLANTING AREAS WHEREVER POSSIBLE.
3. DO NOT WILLFULLY INSTALL THE IRRIGATION SYSTEM AS INDICATED ON THE DRAWINGS WHEN IT IS OBVIOUS IN THE FIELD THAT UNKNOWN OBSTRUCTIONS OR GRADE DIFFERENCES EXIST AND SHOULD BE BROUGHT TO THE ATTENTION OF THE CITY'S REPRESENTATIVE. IN THE EVENT THAT THIS NOTIFICATION IS NOT PERFORMED, THE CONTRACTOR MUST ASSUME FULL RESPONSIBILITY FOR REVISIONS NECESSARY.
4. SYSTEM DESIGN IS BASED ON MINIMUM OPERATING PRESSURE SHOWN AT EACH POINT OF CONNECTION WITH MAXIMUM GPM DEMAND SPECIFIED. THE IRRIGATION CONTRACTOR SHALL VERIFY ALL PRESSURES ON SITE PRIOR TO CONSTRUCTION. NOTIFY THE CITY'S REPRESENTATIVE OF ANY DISCREPANCIES.
5. IT IS THE RESPONSIBILITY OF THE IRRIGATION CONTRACTOR TO FAMILIARIZE HIMSELF WITH ALL GRADE DIFFERENCES, SLOPES, LOCATION OF WALLS, RETAINING WALLS, CURBS, ETC. HE SHALL COORDINATE ALL HIS WORK WITH THE GENERAL CONTRACTOR AND OTHER SUBCONTRACTORS FOR THE LOCATION OF PIPE SLEEVES THROUGH WALLS AND FOOTINGS, UNDER ROADS, PAVING AND STRUCTURES.
6. MAINLINE PIPING BETWEEN THE POINT OF CONNECTION, METER AND BACKFLOW PREVENTER TO BE OF MATERIAL AS REQUIRED BY GOVERNING WATER DISTRICT.
7. MAINLINE PIPING AS SHOWN ON PLANS IS DIAGRAMMATIC ONLY. MAINLINE MAY BE STRAIGHTENED TO REDUCE FITTINGS, HOWEVER, REMOTE CONTROL VALVES SHALL BE LOCATED AS INDICATED ON DRAWINGS AND AND PER VALVE BATTERY DETAIL IN DETAIL SHEET.
8. FINAL LOCATION OF THE AUTOMATIC CONTROLLER ENCLOSURE AND THE BACKFLOW PREVENTION DEVICE SHALL BE APPROVED BY THE CITY'S REPRESENTATIVE, AND/OR LANDSCAPE ARCHITECT WHERE APPLICABLE.
9. IN ADDITION TO THE SLEEVES SHOWN ON THE PLAN, THE IRRIGATION CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION OF ADDITIONAL SLEEVES OF SUFFICIENT SIZE UNDER ALL THE PAVED AREAS PRIOR TO PAVING UPON DIRECTION AND APPROVAL OF THE CITY'S REPRESENTATIVE, IF REQUIRED TO OPERATE SYSTEMS.
10. IRRIGATION CONTRACTOR SHALL FLUSH ALL LINES AND ADJUST ALL HEADS FOR MAXIMUM PERFORMANCE AND TO PREVENT OVER SPRAY ONTO WALKS, STREETS, AND BUILDINGS. THIS SHALL INCLUDE SELECTING THE BEST NOZZLE RADIUS TO FIT UNIQUAL SITE CONDITIONS AT NO EXTRA COST TO THE CITY. CALL THE LANDSCAPE ARCHITECT 48 HOURS IN ADVANCE FOR ANY COVERAGE TESTS.
11. IRRIGATION CONTRACTOR SHALL INSTALL VALVES AS PER VALVE INSTALLATION DETAIL IN DETAIL SHEET. A 5" MIN. CLEARANCE FROM TOP OF QUICK COUPLER, GATE, REMOTE CONTROL AND OTHER VALVES TO BOTTOM OF VALVE BOX LID SHALL BE MAINTAINED.
12. IRRIGATION CONTRACTOR SHALL ADJUST TREE PLANTING LOCATION SO THAT TREES ARE PLACED BETWEEN SPRAY HEADS TO ALLOW FOR BEST POSSIBLE SPRINKLER COVERAGE.
13. MAINLINE MAY BE INSTALLED IN A STRAIGHT LINE, HOWEVER, REMOTE CONTROL VALVES SHALL BE INSTALLED @ LOCATIONS AS INDICATED ON IRRIGATION PLANS. REMOTE CONTROL VALVES SHALL BE INSTALLED AS PER THE VALVE & REMOTE CONTROL VALVE MANIFOLD DETAILS WITH DISTANCE FROM CONCRETE EDGE STRICTLY ENFORCED.
14. IRRIGATION CONTRACTOR SHALL NOT DEFLECT O-RING GASKETED PIPE ANY GREATER THAN 5 DEGREES. ANY CHANGE IN DIRECTION GREATER THAN 5 DEGREES REQUIRES A CAST IRON FITTING. SEE SPECIFICATION UNDER "FITTING FOR O-RING GASKETED PIPE".
15. IRRIGATION CONTRACTOR SHALL ADJUST PRESSURE REGULATING REMOTE CONTROL VALVES TO A DOWN STREAM PRESSURE OF 6 TO 10 P.S.I. GREATER THAN HEAD OPERATING PRESSURE AS NOTED IN IRRIGATION LEGEND.
16. CONTROLLER LOCATION SHALL BE APPROVED BY OWNER OR OWNERS REPRESENTATIVE. AN INDEPENDENT ELECTRICAL CIRCUIT OF 120 VOLT, 60 CYCLE @ 20 VA PER CONTROLLER, SHALL BE PROVIDED BY GENERAL CONTRACTOR. REFER TO LEGEND FOR MANUFACTURER AND MODEL.
17. REMOTE CONROL VALVES, QUICK COUPLING VALVES, GATE VALVES AND OTHER VALVES IN VALVE BOXES INDICATED IN THE WARNING TRACKS OR SKINNED INFIELDS SHALL BE INSTALLED IN ADJACENT PLANTING AREAS OUT OF THE PLAY AREA.
18. THE MATERIALS AND THE INSTALLATION OF THE IRRIGATION SYSTEM SHOWN ON THIS PLAN SHALL MEET THE LATEST EMWD STANDARD AND SPECIFICATIONS FOR DEVELOPER PROJECTS. INSTALLATION OF HOSE BIBS IS NOT ALLOWED ON SYSTEM USING RECYCLED WATER'.
19. UPON FINAL ACCEPTANCE, IRRIGATION CONTRACTOR SHALL PROVIDE & INSTALL APPROVED EMWD WATER METER IN ACCORDANCE TO EMWD DETAIL #XXX.

GROUNDING

THERE SHALL BE 2 APPROVED GROUND INSTALLATIONS, THEY AS FOLLOWS:

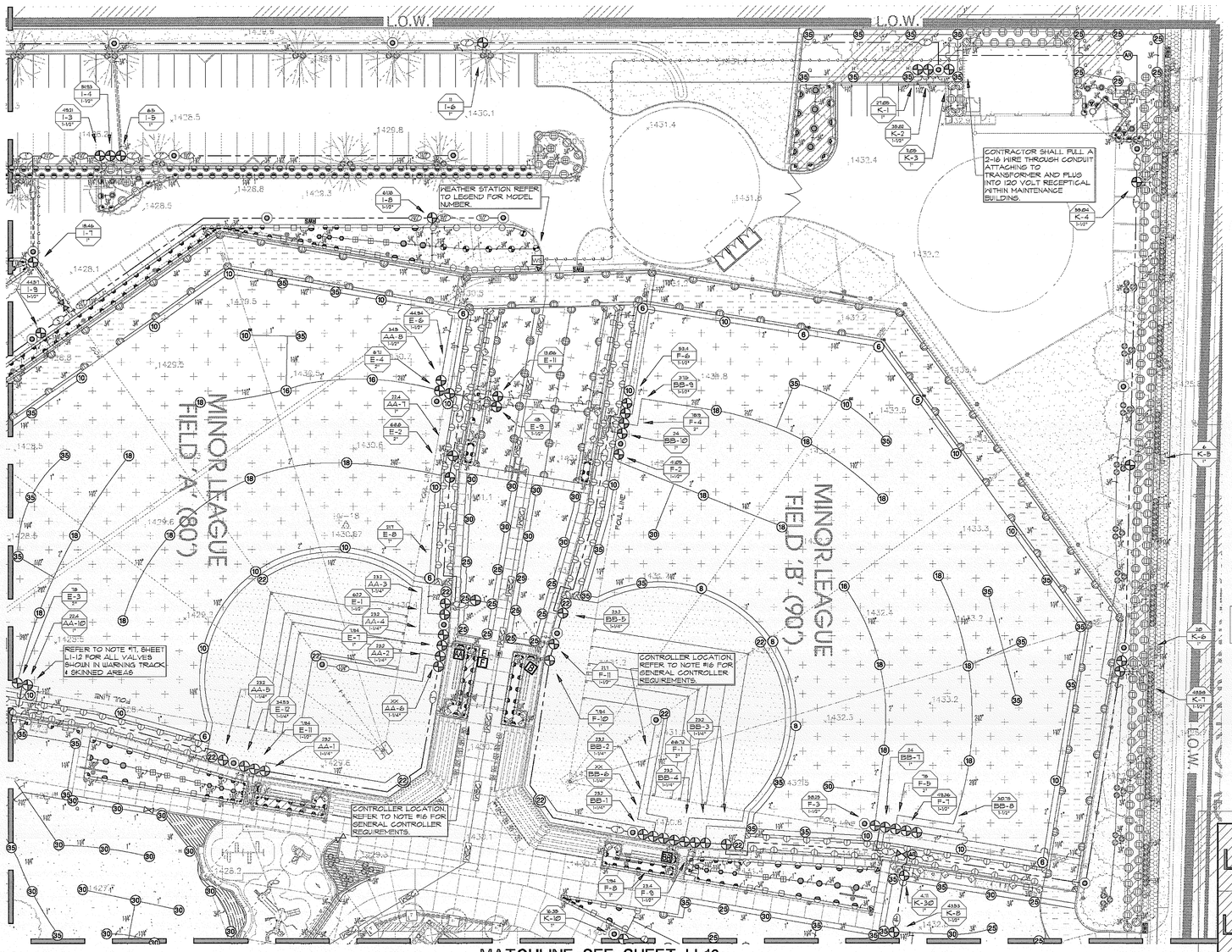
1. THE TYPICAL GROUNDING GRID SHALL CONSIST OF THREE 5/8" X 8' COPPER-CLAD GROUNDING RODS INSTALLED MINIMUM 10 FEET FROM IRRIGATION CONTROLLER. THE RODS SHALL BE IN AN EQUILATERAL TRIANGULAR GRID, UTILIZING #8 AWG BARE COPPER WIRE CONNECTED TO GROUND RODS WITH CADWELD CONNECTION. PLASTIC VALVE BOXES SHALL COVER THE GROUNDCLAD CONNECTION.
2. A 4" X 8' GROUND PLATE MAY BE INSTALLED IN A HORIZONTAL POSITION BURIED A MINIMUM OF 30" DEEP, 25 FEET FROM THE IRRIGATION CONTROLLER. ALL ELECTRONIC WIRES AND CABLES CONNECTED TO THE CONTROLLER SHALL BE INSTALLED OUTSIDE THE SPHERE OF INFLUENCE OF THE GROUNDING GRID. AN EARTH CONTACT MATERIAL MAY BE NECESSARY TO ENSURE GOOD GROUND CONTACT (MINIMUM 5 OHMS OR LESS). ALL SWEEP ELLS USED IN GROUNDING TO BE PVC SCHEDULE 40.

1.

IRRIGATION LEGEND & NOTES:

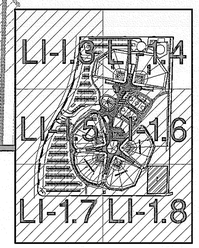
FOR THE IRRIGATION LEGEND REFER TO SHEETS LI-1.3 & LI-1.5

FOR THE IRRIGATION GENERAL NOTES REFER TO SHEET LI-1.4



NOTE:
REFER TO NOTE 17, SHEET LI-12 FOR ALL VALVES SHOWN IN WARNING TRACK AND SKINNED AREAS

0' 15' 30' 60'



KEY MAP NOT TO SCALE

EMWD Construction Note

EASTERN MUNICIPAL WATER DISTRICT REQUIRES THAT A PRE-CONSTRUCTION CONFERENCE BE SCHEDULED PRIOR TO ANY CONSTRUCTION BY CALLING THE EASTERN MUNICIPAL WATER DISTRICT FIELD ENGINEERING DEPARTMENT AT (951) 928-3777, EXTENSION 4832.

Omission Statement

THERE ARE NO , DECORATIVE FOUNTAINS, OUTDOOR EATING AREAS, OR WELLS ON THE SITE. DRINKING WATER FOUNTAINS, DESIGNATED OUTDOOR EATING AREAS, PLAY AREAS, RESTAURNTS & RESTROOMS SHALL BE PROTECTED AGAINST CONTACT WITH RECYCLED WATER SPRAY, MIST, OR RUN-OFF. THE POTABLE WATERLINE SUPPLYING THE DRINKING FOUNTAIN MUST HAVE A WARNING BLUE COLORED TAPE IDENTIFYING IT AS A POTABLE WATERLINE AND STATING 'CAUTION: BURIED WATERLINE BELOW' INSTALLED OVER IT.

Potable and Recycled Water Separation Note

RECYCLED MAINLINE (CONSTANT PRESSURE) SHOWN DIAGRAMMATICALLY FOR CLARITY ONLY. ACTUAL LOCATION MUST PROVIDE A MINIMUM FOUR (4) FEET HORIZONTAL CLEARANCE BETWEEN ALL POTABLE AND CONSTANT PRESSURE RECYCLED WATERLINES. RECYCLED WATER MAINLINE SHOULD BE INSTALLED UNDER POTABLE WATERLINES AND MAINTAIN ONE (1) FOOT OF VERTICAL CLEARANCE. WHERE THE RECYCLED WATER CONSTANT PRESSURE LINE MUST BE INSTALLED ABOVE THE POTABLE WATERLINE, A FOUR (4) INCH MINIMUM VERTICAL CLEARANCE MUST BE MAINTAINED AND THE RECYCLED WATER PRESSURE LINE MUST BE INSTALLED IN A CONTINUOUS PVC CLASS 200 PIPE OR GREATER SLEEVE WHICH EXTENDS A MINIMUM OF TEN (10) FEET EACH SIDE OF THE POTABLE WATERLINE.

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DATE	BY	MARK	DESCRIPTION	APPR.	DATE

ENGINEER — REVISIONS — EMWD

ON-SITE RECYCLED WATE APPROVAL BY:
EASTERN MUNICIPAL WATER DISTRICT
CIVIL ENGINEER OF SUBDIVISIONS — DATE

APPROVALS

	INITIAL	DATE
PROJECT ENGR.		
OPERATION		
W.O.	S.A.	COORD.

COUNTY OF "RIVERSIDE"

APN-327-190-019
RECYCLED WATER LANDSCAPE IMPROVEMENT PLANS
PERRIS VALLEY BIG LEAGUE DREAMS
IRRIGATION SHEET

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I.O 88
S.A. 37
COORD. 370-43
SHT. LI-1.4 OF 15
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CELL 714-504-6883, FAX 714-971-0344
bill@williamsidc.com e-mail

PROJECT TEAM:
LANDSCAPE ARCHITECT
MIG INC.

ARCHITECT
PITASSI ARCHITECTS INC.

CIVIL ENGINEERS/SURVEYOR
WALDEN & ASSOCIATES

STRUCTURAL ENGINEERS
CORREIA CONSULTING & DESIGN

ELECTRICAL ENGINEERS
LRA ENGINEERS

IRRIGATION DESIGNER
WILLIAMS IRRIGATION DESIGN

GEOTECHNICAL ENGINEERS
CONVERSE CONSULTANTS

TURF GRASS CONSULTANT
GUISE AND ASSOCIATES

PERRIS VALLEY Big League Dreams

2155 Trumble Road
Perris, California, 92570

SHEET TITLE
IRRIGATION PLAN

100% CONSTRUCTION DOCUMENT

DATE	REVISIONS

STAMP

CHECKED BY	DATE
BLW	07-22-09
DATE 07-30-09	FILE NAME
DRAWN BY BLW	SHEET LI-1.4
JOB NO. 05208.00	
SCALE 1"=30'-0"	276 OF 313 SHEETS