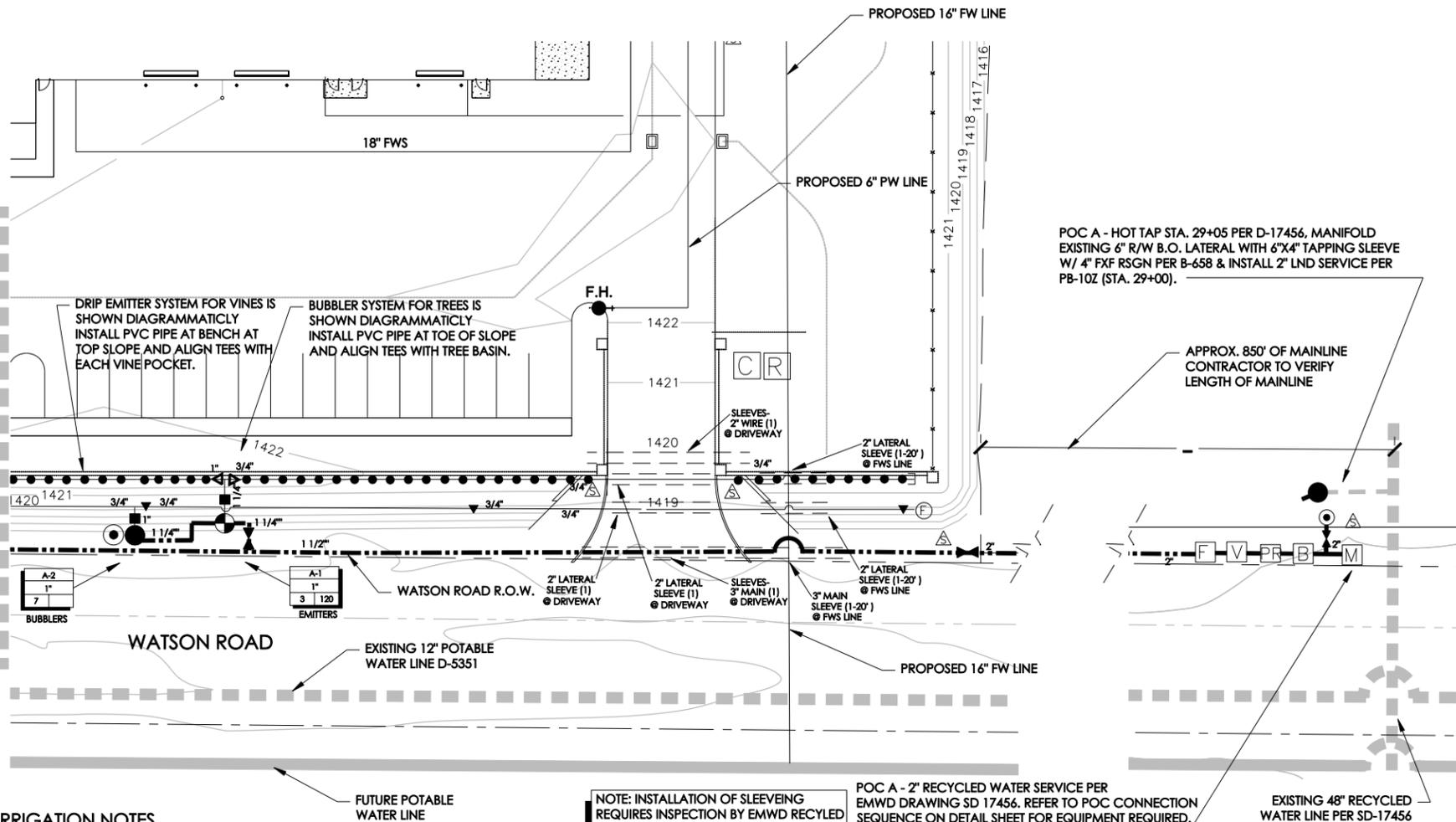


MATCHLINE - SEE SHEET 5



SPRINKLER LEGEND					
SYMBOL	DESCRIPTION	MANUFACTURER/MODEL #	PSI	GPM	DETAIL
▼	BUBBLER	RAINBIRD RWS-B-C-1402-P ROOT WATERING SYSTEM WITH PURPLE LOCKING GRATE FOR RECYCLED WATER - .5 GPM BUBBLER HEAD PRE-ASSEMBLED ON SCH. 80 NIPPLE WITH SWING ASSEMBLY. EACH SYMBOL REPRESENTS TWO BUBBLERS PER TREE. PLACE BUBBLERS AT EDGE OF ROOTBALL ON OPPOSITE SIDES OF TREE TYPICAL. INSTALL PER MANUFACTURER RECOMMENDATIONS & AT FINISH GRADE WITHIN PRE-ASSEMBLED BUBBLER/DRAIN PIPE COMPONENT.	30	.5	K
●	DRIP SYSTEM	RAIN BIRD XERI BUG XB-10PC-1032, XB-20PC-1032 PRESSURE COMPENSATING DRIP EMITTERS (2.0 GPH) ALL PLANTS SHALL RECEIVE (1) EMITTER PER VINE WITH A 2.0 GPH VOLUME EACH. INSTALL EACH EMITTER WITH RECYCLED PC-DIFF-PPL.			J
○	DRIP SYSTEM	RAIN BIRD POLYFLEX RISER AND MALE ADAPTER PFR.FRA CONNECTED TO THREADED TEE ON PVC ON BASE AND THREADED (1032) DRIP EMITTER ON TOP. INSTALL RECYCLED ID TAPE TO EXPOSED POLY FLEX RISER FOR RECYCLED SYSTEMS.			J
⊕	MANUAL FLUSH VALVE	NIBCO LINE SIZE SCHEDULE 80 BALL VALVE MANUAL FLUSH VALVE AT END OF PVC PIPE LINE INSTALLED INSIDE A 6\"/>			

EQUIPMENT LEGEND			
SYMBOL	MANUFACTURER/MODEL #	SIZE	DETAIL
M	2\"/>		

IRRIGATION NOTES

- THE SPECIFICATIONS AND THEIR PROVISIONS HAVE BEEN PREPARED WITH ALL LOCAL MUNICIPAL AND STATE LAWS, RULES AND REGULATIONS GOVERNING THIS WORK AND SHALL BE CARRIED OUT BY THE CONTRACTOR AS STATED.
- THE CONTRACTOR SHALL VERIFY ALL EXISTING UTILITIES, STRUCTURES AND SERVICE LOCATIONS PRIOR TO COMMENCING WORK. THE UTILITIES, STRUCTURES AND SERVICES SHOWN ON THESE PLANS ARE APPROXIMATE THEREFORE ANY DISCREPANCIES BETWEEN THESE PLANS AND ACTUAL FIELD CONDITIONS SHALL BE REPORTED TO THE OWNERS REPRESENTATIVE.
- WHEN IT IS OBVIOUS THAT UNKNOWN CONDITIONS EXIST IN THE FIELD THAT WERE NOT IDENTIFIED AT THE TIME THESE PLANS WERE PREPARED THE CONTRACTOR SHALL NOT INSTALL ANY EQUIPMENT SPECIFIED ON THESE PLANS. THE CONTRACTOR MUST MAKE ANY SUCH CONDITIONS KNOWN TO THE OWNERS REPRESENTATIVE PRIOR TO COMMENCING WORK WHERE THESE FIELD CONDITIONS EXIST.
- ALL EQUIPMENT SHOWN IS TO BE INSTALLED WITHIN PLANTING AREAS. THIS DESIGN IS DIAGRAMATIC THEREFORE ANY EQUIPMENT SHOWN IN PAVED AREAS IS FOR CLARIFICATION ONLY.
- ALL NECESSARY PERMITS REQUIRED TO PERFORM THE WORK INDICATED HEREIN SHALL BE OBTAIN BY THE CONTRACTOR PRIOR TO COMMENCING WORK.
- THE CONTRACTOR MUST OBTAIN ALL PLANS RELATING TO THIS PROJECT SUCH AS ENGINEERING AND ARCHITECTURAL PRIOR TO COMMENCING WORK.
- INSTALLATION OF PIPE UNDER PAVED AREAS ARE TO BE INSTALLED IN SLEEVEING TWICE THE DIAMETER OF THE PIPE CARRIED. INSTALLATION OF ALL WIRE UNDER PAVED AREAS ARE TO BE INSTALLED IN A SCH. 40 SLEEVE THIS IS REQUIRED FOR EASE IN PULLING THE WIRE THROUGH. ALL INSTALLATION OF SLEEVES UNDER PAVING SHALL EXTEND 12\"/>

NOTE: INSTALLATION OF SLEEVEING REQUIRES INSPECTION BY EMWD RECYCLED WATER OPERATIONS INSPECTOR

DRIP SYSTEM NOTES:

ALL LATERAL LINES FOR DRIP SYSTEM SHALL BE PVC AS SHOWN IN THE LEGEND. POLYFLEX RISERS SHALL BE CONNECTED TO THE PVC LATERAL LINES IN LOCATIONS ALONG THE LATERAL LINE ROUTE IN QUANTITIES AND LOCATIONS REQUIRED BY THE ACTUAL QUANTITY OF VINES INSTALLED.

INSERT DRIP EMITTERS INTO RISER AS CLOSE AS POSSIBLE TO PLANT. COVER ALL DRIP TUBING COMPLETELY WITH NATIVE SOIL WITHIN PLANTER BASIN AND COVER WITH COBBLE AS SPECIFIED ON LANDSCAPE PLANS.

CONTRACTOR TO PROVIDE THE QUANTITY OF EMITTERS AND RISERS BASED ON THE ACTUAL PLANT COUNT AND THE EMITTER LEGEND SHOWN BELOW. ANY REFERENCE TO EMITTER QUANTITIES ON THESE PLANS IS FOR DESIGN USE ONLY. VERIFY THE ACTUAL PLANT QUANTITIES AND SIZES FROM THE LANDSCAPE PLANS PRIOR TO BIDDING OR STARTING WORK.

EMWD MATERIALS NOTE:

- THE MATERIALS AND THE INSTALLATION OF THE IRRIGATION SYSTEM SHOWN ON THIS PLAN SHALL MEET THE LATEST EMWD STANDARDS AND SPECIFICATIONS FOR DEVELOPERS PROJECTS.
- INSTALLATION OF HOSE BIBBS IS NOT ALLOWED ON SYSTEMS USING RECYCLED WATER.

POINT OF CONNECTION *A*	
POC DESIGNATION	A
ROAD STATION	29+00
SERVICE LINE SIZE (in) NEW HOT TAP	2"
RECYCLED WATER METER SIZE (in) NEW	2"
LANDSCAPE SERVICE STANDARD DRAWING	PB-10A
ULTIMATE DESIGN PEAK FLOW (gpm)	7 GPM
PRESSURE REGULATOR (in)	2"
RECYCLED HGL (ft)	1426'
BOOSTER PUMP HGL (ft)	NONE
METER ELEVATION (ft)	1416'
STATIC PRESSURE RANGE (psi)	80 TO 90 PSI
DESIGN PRESSURE (psi)	60 PSI
TOTAL AREA SERVED (af)	5,500 SQ FT
ANNUAL WATER USAGE (acre-ft)	.13 AC FT
EMWD REFERENCE DRAWING NUMBER	SD-17456
INITIAL SOURCE OF SUPPLY	RECYCLED
IRRIGATION TYPE (SPRAY, DRIP, BUBBLERS)	BUBBLERS AND DRIP

NOTE:
 CONTROLLER A SHALL BE A RAINBIRD ESP MODULAR 8 STATION AUTOMATIC IRRIGATION CONTROLLER WITH ET MANAGER WEB BASED PROGRAM. THE CONTROLLER IS PROGRAMMED FOR USE WITH A MASTER VALVE, AND FLOW SENSOR. THE CONTROLLER SHALL BE INSTALLED IN A POWDER COATED METAL ENCLOSURE (SEE LEGEND FOR TYPE). FINAL LOCATION OF CONTROLLER AND ELECTRICAL POC SHALL BE CONFIRMED WITH EMWD REPRESENTATIVE PRIOR TO COMMENCING WORK.

NOTE:
 POINT OF CONNECTION *A* SHALL BE A NEW 2\"/>

STATIC WATER PRESSURE	90 PSI
DESIGN WATER PRESSURE	80 PSI
MAXIMUM SYSTEM DEMAND	7 GPM

SEE SHEET 6 FOR IRRIGATION LEGEND
 SEE SHEETS 7 TO 8 FOR IRRIGATION DETAILS
 SEE SHEETS 9 TO 11 FOR IRRIGATION SPECIFICATIONS

COLOR CODING NOTE:

SPRINKLERS, ROTOR HEADS AND OTHER TYPES OF DISPERSION HEADS SHALL HAVE THE EXPOSED SURFACE COLORED PURPLE. THE EXPOSED SURFACE SHALL BE COLORED THROUGH THE USE OF INTEGRALLY MOLDED PURPLE PLASTIC OR PERMANENTLY ATTACHED PURPLE PLASTIC RING OR DISC. VALVE BOXES SHALL BE PURPLE PER INDUSTRY STANDARDS. THE LIDS SHALL HAVE THE WARNING "RECYCLED; DO NOT DRINK" IN ENGLISH AND SPANISH AND THE INTERNATIONAL "DO NOT DRINK" ON ONE SIDE AND "PELIGRO: AGUA IMPURA - NO BEBER" ON THE OPPOSITE SIDE. ALL SHRUB HEADS SHALL HAVE PURPLE CAPS.

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 4830.

OMISSION STATEMENT:

THERE ARE NO DECORATIVE FOUNTAINS, COMFORT STATIONS, SWIMMING POOLS, PLAYGROUND EQUIPMENT, OR WELLS ON SITE. DRINKING WATER FOUNTAIN, DESIGNATED FOR EATING AREAS, PICKING TABLES, BENCHES, ETC. 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.

INSTALLATION NOTES:

THE MATERIALS AND THE INSTALLATION OF THE IRRIGATION SYSTEM SHOWN ON THIS PLAN SHALL MEET THE LATEST EMWD STANDARDS AND SPECIFICATIONS FOR DEVELOPER PROJECTS. NO HOSE BIBBS WILL BE ALLOWED FOR INSTALLATION ON SYSTEMS USING RECYCLED WATER.

POTABLE & RECYCLED WATER SEPARATION NOTE:

RECYCLED MAINLINE (CONSTANT PRESSURE) SHOWN DIAGRAMMATIC ALLY FOR CLARITY ONLY. ACTUAL LOCATION MUST PROVIDE A MINIMUM FOUR (4) FEET HORIZONTAL CLEARANCE BETWEEN ALL POTABLE AND CONSTANT PRESSURE RECYCLED WATER LINES. RECYCLED WATER MAINLINE SHOULD BE INSTALLED UNDER POTABLE WATER LINES AND MAINTAIN ONE (1) FOOT OF VERTICAL CLEARANCE. WHERE THE RECYCLED WATER CONSTANT PRESSURE LINE MUST BE INSTALLED ABOVE THE POTABLE WATER LINE, 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 SLEEVE WHICH EXTENDS A MINIMUM OF TEN (10) FEET EACH SIDE OF THE POTABLE WATER LINE.



EASTERN MUNICIPAL WATER DISTRICT
 PERRIS IDESALINATION FACILITY
 PERRIS, CALIFORNIA

IRRIGATION PLAN

DESIGNED BY:
 DRAWN BY:
 CHECKED BY:

U.S. ARMY ENGINEER DISTRICT
 LOS ANGELES
 CORPS OF ENGINEERS

CADD FILE NAME: PDF105d.dgn

SUBMITTED BY:

SPEC. NO.: NOT APPLICABLE

L.A. DISTRICT FILE NO. XXX-XXXX

CH2MHILL

SHEET 221 OF 226

DATE:

SHEETS