

PLOT DATE: 2/19/2010 PLOT TIME: 11:13:34 AM

NDM-SCO-EMWD_USACE_PERRIS_ILV_PDF104.dgn

FUTURE HULL ROAD

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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 DEVELOPER'S PROJECTS. INSTALLATION OF HOSE BIBS IS NOT ALLOWED ON SYSTEMS USING RECYCLED WATER.

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

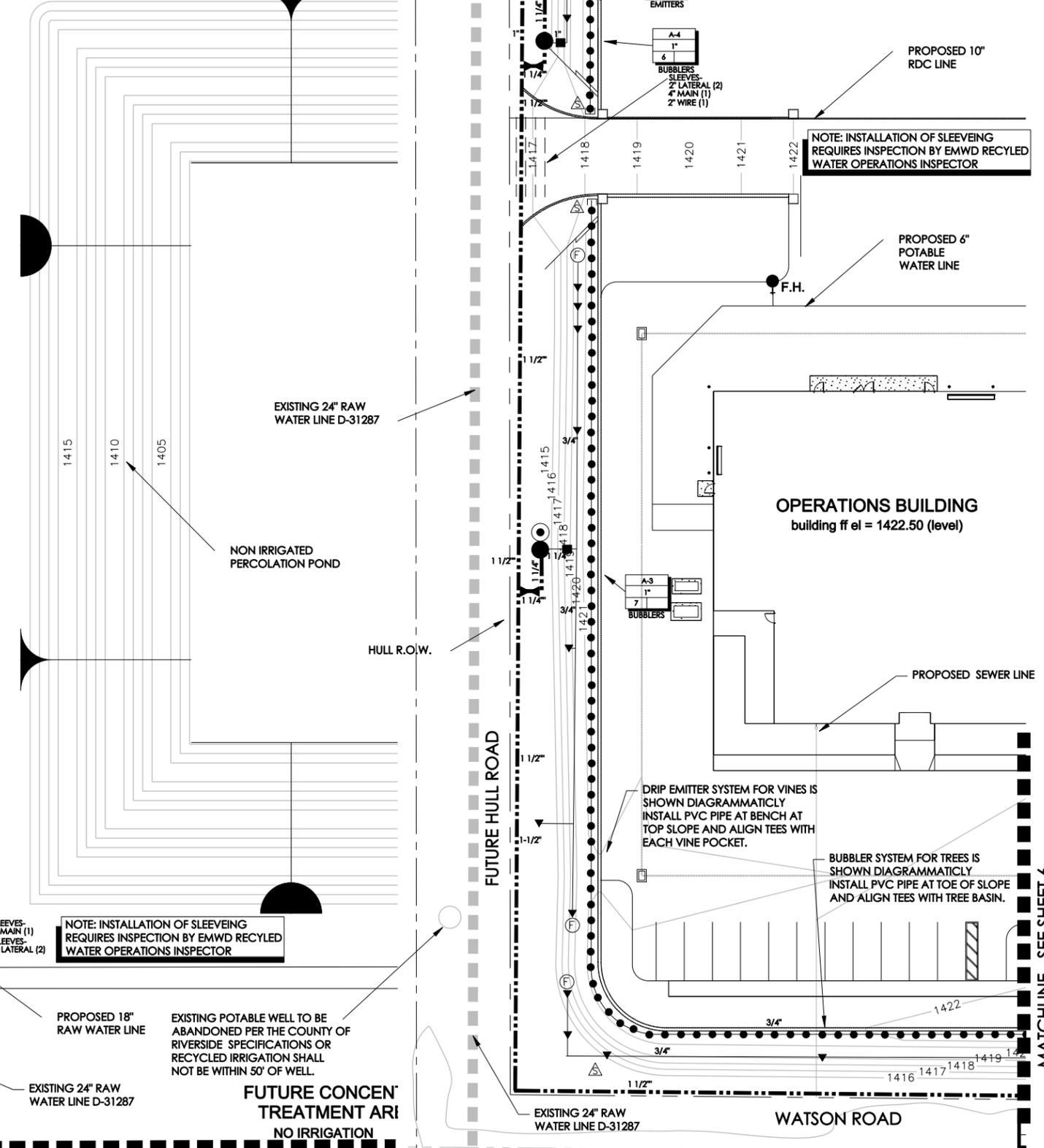
EXISTING POTABLE WELL TO BE ABANDONED PER THE COUNTY OF RIVERSIDE SPECIFICATIONS OR RECYCLED IRRIGATION SHALL NOT BE WITHIN 50' OF WELL.

FUTURE CONCEN' TREATMENT ARI NO IRRIGATION

MATCHLINE - SEE BELOW LEFT

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

MATCHLINE - SEE SHEET 6



SPRINKLER LEGEND

SYMBOL	DESCRIPTION	MANUFACTURER/MODEL #	PSI	GPM	DETAIL
▽	BUBBLER	RAINBIRD RWS-8-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 MANUFACTURE 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
NOT SHOWN	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" ROUND VALVE BOX. INSTALL WITH SCHEDULE 40 PIPE EXTENSION 90 DEG. ELBOW AND PIPE RESTRAINT INTO GRAVEL SUMP.			Q
⊔	AUTO FLUSH VALVE	TORO FCH-H-FPT AUTOMATIC FLUSH VALVE AT END OF DRIPLINE 3/4" PVC FLUSH MANIFOLD LINE. INSTALL FLUSH VALVE INSIDE A SEPARATE VALVE BOX. ONE AT THE END OF TUBING RUNS IN EACH DIRECTION. INSTALL 18" FROM PAVING. INSTALL FLUSH EQUIPMENT PER MANUFACTURER SPECIFICATIONS.			L
■	CHECK VALVE	KBI K3C-1250-T THREADED SWING CHECK VALVE; WATER FLOW IS UP HILL OF CONTROL VALVE. KBI K3C-1250-T THREADED SPRING CHECK VALVE; WATER FLOW IS DOWN HILL OF CONTROL VALVE			
△	INLINE PRESSURE REG	SENNINGER PRF-25LFR-1LINE PLASTIC PRESSURE REGULATOR. LOW FLOW UNIT FOR UNDER 8 GPM AND 25 PSI. LINE SIZE WITH THREADED CONNECTIONS. BUSH MALE ADAPTERS, SLIP CONNECTION			L

EQUIPMENT LEGEND

SYMBOL	MANUFACTURER/MODEL #	SIZE	DETAIL
M	2' RECYCLED IRRIGATION WATER METER. VERIFY ACTUAL LOCATION, AND PRESSURE IN FIELD PRIOR TO COMMENCING WORK AND PURCHASING EQUIPMENT.	2'	N/A
V	TORO P220-27-04 RW60 KIT (2') PLASTIC MASTER VALVE W/ PRESSURE REGULATOR, NORM. CLOSED, INSTALL IN A PURPLE RECTANGULAR BOX WITH LOCKING LID	2'	K
F	TORO TRS PLASTIC (3/4") FLOW SENSOR. INSTALL DOWN STREAM OF MASTER VALVE IN RECTANGULAR VALVE BOX. INSTALL PER MANUFACTURE DIRECTIONS. INSTALL IN A PURPLE RECTANGULAR BOX WITH LOCKING LID	3/4"	H
B	YARDNEY T SERIES MAXI CLEAN BRASS BASKET STRAINER FOR RECYCLED SYSTEMS. INSTALL IN VIT STRONGBOX SB8C-20SS ENCLOSURE WITH POLAR BARRIER INSULATED COVER BY PARKSIDE PRODUCTS	1-1/2"	J
PR	WALKINS 500 HLR PRESSURE REGULATING VALVE INSTALL IN A PURPLE RECTANGULAR BOX WITH LOCKING LID	1-1/2"	J
C	RAINBIRD ESP-LM4 8 ETH-LM4-LM4-M-PED ETH-RG-8 STATION IRRIGATION CONTROLLER W/ FLOW SENSING CAPABILITIES & ET MANAGER MODULE INSTALL IN A METAL POWDER COATED OUTDOOR CABINET & PEDISTAL CONTACT ANITA MATLOCK AT RAINBIRD FOR FLOW SENSOR & ET SET UP CONNECTION 951-314-1740.	8 STA.	I
R	RAINBIRD ETH RAIN TIPPING GAUGE FOR USE WITH ET MANAGER. MOUNT TO REAR OF ENCLOSURE AND WIRE TO CONTROLLER. AS SPECIFIED ABOVE WITH THE IRRIGATION CONTROLLER	N/A	I
E	120 VOLT ELECTRICAL POWER. PROVIDED BY ELECTRICIAN. VERIFY ACTUAL LOCATION IN FIELD	N/A	N/A
▶	LASCO SLO-CLOSE SCH. 80 PVC TRI-UNION BALL VALVE WITH SOLVENT WELD CONNECTIONS. SIZE PER LINE	LINE SIZE	G
⊙	NELSON/7445 NON-POTABLE 1" QUICK COUPLER ACME THREADS WITH LOCKING PURPLE RUBBER CAP. INSTALL IN A PURPLE ROUND BOX WITH LOCKING LID	1"	D
●	TORO TPV-F-100MM 1" SERIES PRESSURE REGULATING PLASTIC REMOTE CONTROL VALVE. WITH NON POTABLE HANDLE AND ID TAG FOR RECYCLED WATER. RW-80 RW KIT	PLAN SIZE	E
⊕	TORO DZK-TPV-1-WF 1" REMOTE CONTROL DRIP VALVE. DRIP & RW KIT. IN BOX INCL. 25 PSI PRESSURE REG. NON POTABLE HANDLE. 150 MESH WYE FILTER. CONTRACTOR SHALL GLUE THREADED CAP CLOSED ON WYE FILTER	PLAN SIZE	F
△	RECYCLED IRRIGATION WARNING SIGN PER EMWD STANDARDS	N/A	O
---	SCH. 40 PVC IRRIGATION MAINLINE - 18" MIN. COVER. PURPLE PIPE FOR RECYCLED IRRIGATION	PLAN SIZE	C
---	CLASS 200 PVC NON-PRESSURE LATERAL LINE - 12" MIN. COVER. PURPLE PIPE FOR RECYCLED IRRIGATION	PLAN SIZE	D
---	SCH 40 PVC IRRIGATION PIPE / WIRE SLEEVE - 18" MIN. COVER. PURPLE PIPE FOR RECYCLED IRRIGATION SLEEVEING SHALL BE 2 TIMES DIAMETER OF PIPE TO BE SLEEVED. TYPICAL AND 1 1/2" MIN. FOR WIRES.	PLAN SIZE	A
NOT SHOWN	UF RATED CONTROL WIRE. 12 GA COMMON. 14 GA REMOTE MINIMUM WIRE SIZE. FINAL INSTALLATION SHALL BE PER PER THE WIRE CHART DETAIL: USE DBY-6 WIRE CONNECTORS FOR USE ON ALL WIRE CONNECTIONS	12/14 GA	B

PIPE CROSSING

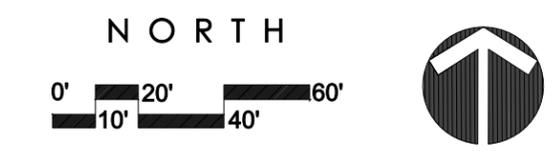
VALVE NUMBER: A-1, 12, 100

VALVE SIZE: 1"

QTY. OF EMITTERS: 100

TOTAL G.P.M.:

NOTE:
1. ALL VALVE BOXES SHALL BE PURPLE FOR RECYCLED WATER AND SHALL BE HEAT BRANDED LABELS FOR THE VALVE OR IRRIGATION EQUIPMENT COMPONENT. REFER TO SPECS AND DETAILS.
2. ALL VALVES SHALL BE IDENTIFIED FOR RECYCLED SYSTEM WITH RECYCLED PURPLE ID TAG 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.
3. ALL IRRIGATION PIPING FROM THE METER THROUGH THE MASTER VALVE SHALL BE BRASS.
4. CONTRACTOR SHALL CONTACT ANITA MATLOCK WITH RAINBIRD AT 951-314-1740 TO COMPLETE THE IRRIGATION CONTROLLER AND ET SYSTEM SET UP.



EASTERN MUNICIPAL WATER DISTRICT
PERRIS IDESALINATION FACILITY
PERRIS, CALIFORNIA

IRRIGATION PLAN

DESIGNED BY: ART. JUNG, P.E.
DRAWN BY: CH2MHILL
CHECKED BY: CH2MHILL

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

CH2MHILL

ART. JUNG, P.E.
CH2MHILL
L.A. DISTRICT FILE NO. XXX-XXXX
SPEC. NO. 1: NOT APPLICABLE
CADD FILE NAME: PDF104.dgn

DATE: _____

REVISIONS

SYMBOL DESCRIPTIONS DATE APPROVAL

SHEET 220 OF 226
SHEETS