

IRRIGATION SYSTEM NOTES:

1. ALL WORK SHALL CONFORM TO EXISTING REGULATIONS INCLUDING, BUT NOT LIMITED TO:
 - 1.1. CITY OF SUNNYVALE RECYCLED WATER PROGRAM SITE DESIGN REQUIREMENTS (PROVIDED BY THE ENVIRONMENTAL SERVICES DEPARTMENT).
 - 1.2. CA DEPARTMENT OF PUBLIC HEALTH REGULATIONS, INCLUDING TITLES 17 AND 22.
2. CHANGES MADE TO THE APPROVED IRRIGATION PLANS SHALL BE SUBMITTED TO THE CITY CROSS CONNECTION SPECIALIST FOR REVIEW AND APPROVAL AT LEAST FOUR WEEKS PRIOR TO START OF CONSTRUCTION.
3. AT LEAST FIVE WORKING DAYS PRIOR TO START OF CONSTRUCTION, THE CONTRACTOR, CUSTOMER, AND CITY CROSS CONNECTION SPECIALIST SHALL HOLD A PRE-CONSTRUCTION MEETING.
4. CONTRACTOR SHALL NOTIFY CITY OF SUNNYVALE, ENVIRONMENTAL SERVICES DEPARTMENT – RECLAIMED WATER USE SECTION AT TELEPHONE NUMBER (408) 730-7900 AND CUSTOMER A MINIMUM OF AT LEAST 2 WEEKS BEFORE WORK BEGINS. THE CONTRACTOR SHALL ALSO NOTIFY ENVIRONMENTAL SERVICES AND CUSTOMER AGAIN AT LEAST 48 HOURS IN WRITING BEFORE STARTING ANY ONSITE WORK. CITY INSPECTOR MUST INSPECT AND/OR VERIFY:
 - 4.1. PRESENCE OF BACKFLOW PREVENTION AT ALL POTABLE POINTS OF CONNECTION.
 - 4.2. NEW UNDERGROUND PIPING (LABELING, CLEARANCES, BURIAL DEPTH, SLEEVING).
 - 4.3. PRESSURE TEST.
 - 4.4. INSTALLATION OF SIGNS, TAGS, LABELS, AND CONTROLLER DECALS.
 - 4.5. SITE PASSED A CROSS-CONNECTION TEST PERFORMED BY A CERTIFIED AWWA CROSS-CONNECTION SPECIALIST.
 - 4.6. NEW METER INSTALLATION.
 - 4.7. COVERAGE TEST.
5. AT NO TIME SHALL CROSS-CONNECTION FROM POTABLE WATER TO RECYCLED WATER BE PERMITTED.
6. ALL NEW ON-SITE BURIED RECYCLED WATER PIPING SHALL BE IDENTIFIED BY THE FOLLOWING METHODS:
 - 6.1 USING PURPLE-COLORED PVC PIPE WITH CONTINUOUS WORDING "CAUTION – RECYCLED WATER" PRINTED ON OPPOSITE SIDES OF THE PIPE. PIPE SHALL BE LAID WITH WORDING FACING UPWARDS.
 - 6.2 WARNING TAPE WITH A MINIMUM WIDTH OF 3 INCHES READING "CAUTION – RECYCLED WATER" (IN BLACK OR WHITE LETTERING ON PURPLE BACKGROUND) SHALL RUN CONTINUOUSLY ON TOP OF PIPING AND SHALL BE ATTACHED TO PIPING WITH PLASTIC TAPE BANDED AROUND THE WARNING TAPE AND THE PIPE EVERY 5 FEET ON CENTER.
7. CONSTANT-PRESSURE MAINLINE PIPING 2 INCHES AND SMALLER SHALL BE PVC PIPE; CONSTANT PRESSURE MAINLINE PIPING 2 ½ INCHES AND LARGER SHALL BE CLASS 315; AND INTERMITTENT-PRESSURE LATERAL PIPING SHALL BE CLASS 200 OR SCHEDULE 40. COPPER PIPE SHALL BE TYPE "K".
8. ALL ON-SITE RECYCLED WATER PIPING SHALL BE BURIED TO A MINIMUM DEPTH FROM FINISHED GRADE TO TOP OF PIPE (MINIMUM COVER) OF:

8.1. PRESSURIZED LINES OF 3 INCHES AND LARGER:	24 INCHES
8.2. PRESSURIZED LINES 2 ½ INCHES AND SMALLER:	18 INCHES
8.3. INTERMITTENT-PRESSURE LINES:	12 INCHES
9. ALL RECYCLED WATER PIPING, OTHER THAN PVC PIPING WITH SOLVENT WELDED JOINTS SHALL BE PROTECTED AGAINST MOVEMENT WITH THRUST BLOCKS OR RESTRAINED JOINTS OR OTHER APPROVED METHOD.
10. MAINTAIN A 5-FOOT HORIZONTAL SEPARATION BETWEEN PRESSURIZED RECYCLED WATER IRRIGATION PIPING AND POTABLE WATER PIPING. AT PIPE CROSSINGS, RECYCLED WATER IRRIGATION WATER PIPING MUST BE 12 INCHES BELOW POTABLE WATER LINES. IF RECYCLED WATER PIPING MUST CROSS OVER POTABLE WATER LINES, THE RECYCLED WATER PIPING SHALL BE AT LEAST 12 INCHES ABOVE THE POTABLE LINES AND SHALL BE INSTALLED IN A PVC SLEEVE WHICH EXTENDS A MINIMUM OF 10 FEET ON EITHER SIDE OF THE POTABLE WATER PIPING (SEE CITY STD DET RW-02A).
11. POTABLE WATER AND RECYCLED WATER PIPING SHALL NOT BE INSTALLED IN THE SAME TRENCH.
12. ALL RECYCLED WATER SYSTEM REMOTE CONTROL VALVES, QUICK COUPLING VALVES, GATE VALVES, BLOW OFF VALVES, STRAINERS, AND PRESSURE-REGULATING VALVES SHALL BE INSTALLED BELOW GRADE IN VALVE BOXES. VALVE BOXES SHALL BE LABELED PER CITY RW-1A.
13. NO HOSE BIBS SHALL BE ALLOWED ON THE RECYCLED WATER IRRIGATION SYSTEM. EXISTING HOSE BIBS TO BE CONNECTED TO RECYCLED WATER SHALL BE REPLACED WITH QUICK COUPLING VALVES. QUICK COUPLING VALVES SHALL BE PER CITY STANDARD DETAIL RW-1B AND LABELED PER CITY STD DET RW-1A.
14. LABEL ALL POTABLE WATER METERS AND ABOVE GROUND POTABLE WATER PIPES/DEVICES (BACKFLOW PREVENTERS, HOWE BIBS, ETC.) WITHIN OUR NEAR THE RECYCLED WATER USE AREA WITH TAGS OR LABELS READING "POTABLE WATER" IN BLACK LETTERS ON BLUE BACKGROUND, PER CITY STD DET RW-1A, RW-1B, AND RW-1C.
15. ALL RECYCLED WATER IRRIGATION SYSTEMS SHALL INCLUDE THE FOLLOWING:
 - 15.1. A WYE STRAINER (WITH A 20 MESH OR FINER SCREEN) INSTALLED AS CLOSE AS PRACTICAL TO THE RECYCLED WATER METER BOX.
 - 15.2. A PRESSURE REGULATING VALVE INSTALLED IMMEDIATELY DOWNSTREAM OF THE STRAINER IF BOOSTER PUMP STATION IS NOT PRESENT.
 - 15.3. THESE COMPONENTS SHALL BE INSTALLED WITH ISOLATION VALVES.
16. PLACE RECYCLED WATER ADVISORY SIGNS AT ENTRANCE TO THE RECYCLED WATER USE AREA IN A MANNER THAT DOES NOT OBSTRUCT THEM FROM VIEW.
17. THE CONTRACTOR SHALL PROVIDE THE ENGINEER AND UPDATE AS NECESSARY, A CONSTRUCTION SCHEDULE THAT SHOWS THE START OF EACH CONSTRUCTION ACTIVITY, INCLUDING REQUIRED TESTS, INSPECTIONS AND INITIATION OF RECYCLED WATER SERVICE.
18. THE CONTRACTOR IS RESPONSIBLE TO COORDINATE WITH UNDERGROUND SERVICE ALERT (800) 227-2600 AND PROPERTY OWNER TO LOCATE UTILITY CROSSINGS AND TO EXCAVATE WITH CAUTION TO AVOID UTILITY DAMAGE.
19. ALL UTILITIES AND IMPROVEMENTS THAT ARE DAMAGED DURING CONSTRUCTION SHALL BE COMPLETED RESTORED TO THE SATISFACTION OF THE ENGINEER.
20. ALL REFUSE AND OTHER DEMOLISHED WORK SHALL BECOME PROPERTY OF THE CONTRACTOR AND SHALL BE LEGALLY DISPOSED OF OFF-SITE. EXCEPTION IS ANY EXISTING IRRIGATION SYSTEM BACKFLOW PREVENTER DEVICE – REUSE BACKFLOW DEVICE IS POSSIBLE AND ON THE UNIVERSITY OF SOUTHERN CALIFORNIA (USC) APPROVAL LIST. OTHERWISE CONTACT CITY TO DETERMINE IF SITE OWNER WISHES TO SALVAGE THE DEVICE AND PROVIDE TO OWNER IF REQUESTED, OTHERWISE DISPOSE.
21. CONTRACTOR IS PROHIBITED FROM DISCHARGING POLLUTANTS (OILS, GARBAGE, CHEMICALS, SEDIMENTS, SOILS, ETC.) TO THE STORM DRAIN SYSTEM.

RECYCLED WATER DESIGN DRAWING GENERAL NOTES - 1



[Signature]
APPROVED BY:

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REVISED : -

DWG.

RW-3A