

## **APPROVED GENERAL NOTES & CERTIFICATES WATER**

Mailing Address: P.O. Box 3427, San Bernardino, CA 92413  
Physical Address: 3654 E. Highland Avenue, Suite 18, Highland, CA 92346  
Phone: (909) 888-8986, Fax: (909) 383-1481

1. ALL WORK SHALL BE DONE ACCORDING TO THESE PLANS AND TO THE DISTRICT'S STANDARD SPECIFICATIONS FOR THE FURNISHING OF MATERIALS AND THE CONSTRUCTION OF WATER FACILITIES, LATEST EDITION.
2. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR COMPLIANCE WITH ALL OSHA AND CAL/OSHA SAFETY REGULATIONS AND REQUIREMENTS.
3. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS.
4. THE CONTRACTOR SHALL NOTIFY EAST VALLEY WATER DISTRICT AND UNDERGROUND SERVICE ALERT (USA) 2 WORKING DAYS PRIOR TO ANY EXCAVATION. (DIAL 811)
5. THE CONTRACTOR SHALL COORDINATE ALL TIE-INS OF NEW WATER MAINS WITH EAST VALLEY WATER DISTRICT. CONTACT RON BUCHWALD, DISTRICT ENGINEER, (909) 888-8986, TO KEEP INTERRUPTIONS TO A MINIMUM. NO INTERRUPTIONS TO EXISTING SERVICES SHALL BE MADE UNLESS APPROVAL IS GRANTED BY EAST VALLEY WATER DISTRICT AT LEAST 4 WORKING DAYS PRIOR TO START OF CONSTRUCTION. THE DISTRICT SHALL PERFORM ANY SHUTDOWN AND RELOADING OF EXISTING WATER MAINS.
6. THE CONTRACTOR SHALL POTHOLE ALL TIE-IN LOCATIONS BEFORE PIPE INSTALLATION TO DETERMINE THE FOLLOWING: (A) EXISTING PIPE SIZE AND TYPE; (B) EXACT LOCATION AND ELEVATION; AND (C) IF THE TIE-IN CAN BE MADE AT LOCATION INDICATED. THE CONTRACTOR SHALL POTHOLE EXISTING UTILITIES THAT MAY INTERFERE WITH TIE-INS. PIPE SHOULD BE EXPOSED TO A MINIMUM OF THREE FEET ON EITHER SIDE OF THE CONNECTION POINT TO ASSURE NO COLLARS ARE IN THE TIE-IN AREA. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE DISTRICT ENGINEER PRIOR TO PROCEEDING.
7. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO BECOME FAMILIAR WITH THE JOB SITE AND THE LOCATION OF ALL UNDERGROUND FACILITIES SHOWN ON THESE PLANS. THE CONTRACTOR WILL BE RESPONSIBLE FOR ANY DAMAGE DONE TO EXISTING UTILITIES THAT ARE SHOWN OR NOT SHOWN ON THESE PLANS. CONTRACTORS ARE ADVISED TO FIELD EXAMINE THE WATER MAIN ALIGNMENT PRIOR TO SUBMITTING BIDS.
8. THE EXISTENCE AND LOCATION OF ALL UNDERGROUND UTILITY PIPES OR STRUCTURES SHOWN ON THESE PLANS ARE OBTAINED BY A SEARCH OF AVAILABLE RECORDS. TO THE BEST OF OUR KNOWLEDGE, THERE ARE NO EXISTING UTILITIES EXCEPT THOSE SHOWN ON THESE PLANS.
9. UNLESS OTHERWISE SHOWN OR STATED, ALL EXISTING UTILITIES SHALL BE PROTECTED AND MAINTAINED IN PLACE BY THE CONTRACTOR.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AND ALL DAMAGES TO PIPE DURING INSTALLATION, BACKFILLING AND COMPACTING.
11. EXISTING VALVES, HYDRANTS, ETC., REMOVED DURING CONSTRUCTION SHALL BE DELIVERED TO THE DISTRICT MAINTENANCE YARD.
12. ALL MATERIALS FURNISHED BY THE DISTRICT SHALL BE PICKED UP BY THE CONTRACTOR AT THE DISTRICT MAINTENANCE YARD.

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13. ALL CURBS AND GUTTERS SHALL BE CONSTRUCTED PRIOR TO ANY WATER MAIN INSTALLATION.
14. UNLESS OTHERWISE NOTED, ALL DUCTILE IRON PIPE SHALL BE PRESSURE CLASS 350. JOINTS SHALL BE MECHANICAL JOINT OR PUSH-ON, EXCEPT AS NOTED OTHERWISE ON THE PLANS. PIPE AND FITTINGS SHALL HAVE A CEMENT MORTAR LINING CONFORMING TO AWWA STANDARDS.
15. ALL VALVES SHALL BE THE SAME CLASS AS THE PIPE, AND PER DISTRICT STANDARDS.
16. MEGALUG RESTRAINTS ARE TO BE USED ON ALL FITTINGS UNLESS OTHERWISE NOTED.
17. CONCRETE THRUST BLOCKS SHALL BE CONSTRUCTED AT ALL DEAD ENDS, TEES, BENDS, CROSSES, BLOWOFFS, DRAINS AND FIRE HYDRANTS PER EAST VALLEY WATER DISTRICT STANDARDS AND REQUIREMENTS.
18. CONTRACTOR SHALL NOT EXCEED THE PIPE MANUFACTURER'S MAXIMUM ALLOWABLE JOINT DEFLECTION SPECIFICATION.
19. MINIMUM COVER OVER PIPE SHALL BE 42 INCHES FROM FINISHED GRADE, UNLESS OTHERWISE NOTED ON PLANS. MARKER TAPE SHALL BE PLACED 1 ½ TO 2 FEET ABOVE ALL PIPELINES.
20. ALL GATE VALVES TO BE INSTALLED ARE SHOWN AND SHALL BE RESILIENT WEDGE (R.W.) TYPE.
21. SEPARATION BETWEEN WATER MAINS AND SANITARY SEWERS SHALL CONFORM TO THE STATE DEPARTMENT OF HEALTH BULLETIN "REQUIRED SEPARATION BETWEEN WATER MAINS AND SANITARY SEWER".
22. COPPER SERVICE LATERALS SHALL BE INSTALLED BY THE DEVELOPER AND ACCORDING TO DISTRICT STANDARDS. THEY SHALL BE PLACED PERPENDICULAR TO THE CENTERLINE OF THE MAIN AND SHALL NOT BE LOCATED WITHIN 3 FEET OF DRIVEWAYS. THE DISTRICT SHALL INSTALL ALL METERS, METER BOXES, LIDS, AND TAILPIPES.
23. PRESSURE REDUCING VALVES ARE RECOMMENDED TO BE INSTALLED BY THE DEVELOPER ON ALL SERVICES TO LOTS IN EXCESS OF 80 P.S.I. WITHIN PROJECT \_\_\_\_\_, LOCATED IN THE \_\_\_\_\_, SYSTEM.
24. AFTER THE PIPE HAS BEEN LAID, BACKFILLED AND COMPACTED, ALL PIPE SHALL BE PRESSURE AND LEAKAGE TESTED, PER DISTRICT STANDARDS. ALL THRUST BLOCKS MUST BE INSTALLED AND THE CONCRETE PROPERLY SET, PRIOR TO PERFORMING THESE TESTS.
25. AFTER PASSING THE PRESSURE/LEAK TEST, AND PRIOR TO ACTIVATION, ALL WATER MAINS SHALL BE THOROUGHLY FLUSHED, DISINFECTED, REFLUSHED AND THEN PASS TWO CONSECUTIVE BACTI TESTS IN ACCORDANCE WITH EAST VALLEY WATER DISTRICT REQUIREMENTS. A CERTIFIED TREATMENT OPERATOR MUST BE PRESENT DURING THE CHLORINATION PROCESS.

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26. PRIOR TO STARTING ANY DISINFECTION PROCESS, CONTRACTOR SHALL SUBMIT, IN WRITING, A COMPREHENSIVE CHLORINATION PLAN FOR DISTRICT APPROVAL. THIS PLAN SHALL DESCRIBE HOW THE LINES ARE TO BE FLUSHED, HOW THE LINES WILL BE CHLORINATED, HOW AND WHERE THE CHLORINE IS TO BE INJECTED, AND WHAT WILL BE USED AS THE FRESH WATER SUPPLY.
27. ALL PAVEMENT REMOVED DURING CONSTRUCTION SHALL BE REPLACED IN KIND AND ACCORDING TO PERMIT REQUIREMENTS.
28. GROUND SURFACE OVER PIPELINE SHALL BE LEFT SMOOTH AND LEVEL WITH SURROUNDING GROUND UNLESS DIRECTED OTHERWISE BY THE ENGINEER OR INSPECTOR. EXISTING DRAINAGE CHANNELS, DITCHES OR BERMS SHALL BE RETURNED TO ORIGINAL SHAPE AND GRADE.
29. NO REVISIONS SHALL BE MADE TO THESE PLANS WITHOUT THE WRITTEN APPROVAL OF THE DISTRICT ENGINEER.
30. NO REPRESENTATIVE OF THE DISTRICT WILL SURVEY OR LAYOUT ANY PART OF THIS WORK.
31. AS-BUILT DRAWINGS ARE THE RESPONSIBILITY OF THE CONTRACTOR AND THE DEVELOPER'S ENGINEER. SEE DETAILED NOTE ON THIS SHEET.

### **DISTRICT'S CERTIFICATE**

THIS CERTIFIES THESE PLANS AND SPECIFICATIONS HAVE BEEN REVIEWED AND HEREBY APPROVED BY THE EAST VALLEY WATER DISTRICT, AND THIS AGENCY IS WILLING AND ABLE TO SUPPLY WATER TO EVERY LOT IN THIS DEVELOPMENT IN ACCORDANCE WITH THE PURE WATER LAWS OF THE STATE OF CALIFORNIA.

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RONALD E. BUCHWALD, RCE 53121, DISTRICT ENGINEER

### **DISTRICT ENGINEER'S CERTIFICATE**

THIS CERTIFIES, I REVIEWED THE PLANS OF THE DOMESTIC WATER SYSTEM FOR THIS DEVELOPMENT AND FIND THEY MEET THE MINIMUM REQUIREMENTS FOR THE CALIFORNIA HEALTH AND SAFETY CODE FOR THE DESIGN AND CONSTRUCTION OF DOMESTIC WATER SYSTEMS.

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RONALD E. BUCHWALD, RCE 53121, DISTRICT ENGINEER

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### **CONTRACTOR'S STATEMENT**

CONTRACTOR AGREES, IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING THE SAFETY OF ALL PERSONS AND PROPERTY. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. THE CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD THE DISTRICT, THE OWNER AND THE DESIGN PROFESSIONAL HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR DESIGN PROFESSIONAL.

### **NOTICE TO CONTRACTORS**

ALL CONTRACTORS AND SUBCONTRACTORS PERFORMING WORK SHOWN ON OR RELATED TO THESE PLANS SHALL CONDUCT THEIR OPERATIONS SO THAT EMPLOYEES ARE PROVIDED A SAFE PLACE TO WORK AND THE PUBLIC IS PROTECTED. ALL CONTRACTORS AND SUBCONTRACTORS SHALL COMPLY WITH THE "OCCUPATIONAL SAFETY AND HEALTH REGULATIONS" OF THE U. S. DEPARTMENT OF LABOR AND THE CALIFORNIA DEPARTMENT OF INDUSTRIAL RELATIONS "CONSTRUCTION SAFETY ORDERS". THE CIVIL ENGINEER SHALL NOT BE RESPONSIBLE, IN ANY WAY, FOR THE CONTRACTOR'S OR SUBCONTRACTOR'S COMPLIANCE OR NONCOMPLIANCE WITH SAID REGULATIONS AND ORDERS.

### **UNDERGROUND STRUCTURES**

ALL UNDERGROUND UTILITIES OR STRUCTURES REPORTED BY THE OWNER OR OTHERS AND THOSE SHOWN ON THE RECORDS EXAMINED ARE INDICATED WITH THEIR APPROXIMATE LOCATION AND EXTENT. THE OWNER, BY ACCEPTING THESE PLANS OR PROCEEDING WITH IMPROVEMENTS PURSUANT THERETO, AGREES TO ASSUME LIABILITY AND HOLD THE UNDERSIGNED HARMLESS FOR ANY DAMAGES RESULTING FROM THE EXISTENCE OF UNDERGROUND UTILITIES OR STRUCTURES NOT REPORTED TO THE UNDERSIGNED; NOT INDICATED ON THE PUBLIC RECORDS EXAMINED; LOCATED AT VARIANCE WITH THAT REPORTED OR SHOWN ON RECORDS EXAMINED. THE CONTRACTOR IS REQUIRED TO TAKE DUE PRECAUTIONARY MEASURES TO PROTECT THE UTILITIES OR STRUCTURES SHOWN AND ANY OTHER UTILITIES OR STRUCTURES FOUND AT THE SITE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE OWNERS OF THE UTILITIES OR STRUCTURES CONCERNED BEFORE STARTING.

### **UNAUTHORIZED CHANGES AND USES**

**CAUTION:** THE ENGINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE FOR, NOR LIABLE FOR, ANY UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS. ALL CHANGES TO THESE PLANS MUST BE IN WRITING AND MUST BE APPROVED BY THE PREPARER OF THESE PLANS AND EAST VALLEY WATER DISTRICT.



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### **AS-BUILT DRAWINGS**

THE CONTRACTOR SHALL KEEP A SEPARATE SET OF CONSTRUCTION PLANS UPON WHICH THE AS-BUILT CONDITIONS SHALL BE DESIGNATED, USING SUFFICIENT SKETCHES AND DIMENSIONS TO PROPERLY DELINEATE THE LOCATIONS AND TYPES OF VALVES, HYDRANTS, SERVICES, AND ANY OTHER PERTINENT ITEMS.

PRIOR TO FINAL INSPECTION, THE CONTRACTOR SHALL CERTIFY THE AS-BUILT INFORMATION ON A COPY OF THE CONSTRUCTION PLANS, TRANSMITTING THE PLANS AND SKETCHES TO THE DISTRICT. UPON RECEIPT OF THE AS-BUILT PLANS, THE DISTRICT WILL SEND THE ORIGINAL MYLARS ALONG WITH THE AS-BUILTS TO THE ENGINEER OF RECORD FOR UPDATING.

### **SURVEY STAKING CERTIFICATE (TO BE SIGNED ON AS-BUILTS)**

THIS IS TO CERTIFY THAT THE WATER LINES, INCLUDING TEES, HORIZONTAL AND VERTICAL ANGLE POINTS AND ALL OTHER CONNECTIONS TO THE MAIN WERE STAKED IN ACCORDANCE WITH THIS PLAN BY OR UNDER THE SUPERVISION OF A PROPERLY LICENSED CIVIL ENGINEER OR LAND SURVEYOR.

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SIGNATURE

TITLE

DATE