

**CITY OF RIVERSIDE - PUBLIC UTILITIES DEPARTMENT
WATER DIVISION**

**WATER DISTRIBUTION SYSTEM
SPECIFICATION NO. 205**

SPECIAL PROVISIONS

The following revisions and additions supplement, modify and take precedence over the Standard Specifications for Public Works Construction (Latest Edition and any adopted supplements) applying to private contracts for Public Improvement.
(Refer Subsection 2-5.1 of Part I)

**PART I
GENERAL PROVISIONS**

SECTION 1 - TERMS, DEFINITIONS, ABBREVIATIONS AND SYMBOLS

1-2 DEFINITIONS

- Agency - The City of Riverside
- Base Course - The layers of a two or more course pavement placed between the surface course and the sub-grade.
- Board - The Board of Public Utilities of the City of Riverside.
- City - The City of Riverside.
- Contractor - The Individual, Partnership, Corporation, Joint Venture, or other legal entity having a contract with the Developer to perform the work.
- Developer - The Individual, Partnership, Corporation, Joint Venture, or other legal entity under a permit issued by the Agency.
- Engineer - The Principal Engineer – Water Contract Administrator of the Public Utilities Department, Construction Division, or Engineer’s authorized representative.
- House Connection Sewers - Sewer lateral.
- Inspector - The representative of the Engineer who is assigned to inspect conformance of the work in accordance with the Plans and Specifications.

- Open Graded A.C. - A thin layer of special asphalt concrete placed on a surface course or existing pavement to improve the surface conformation and friction factor. Open Graded A.C. shall conform to State of California Division of Highways Standard Specifications.
- Overlay - A supplemental surface course placed on an existing pavement to improve its surface conformation.
- Owner's Representative - The person or firm authorized by the Owner to represent it during the performance of the work by the Contractor.
- Private Engineer - The Registered Civil Engineer who prepared and signed the Plans.
- Roadbed - That portion of the street included between the outside lines of curbs or paving.
- Soils Engineer - The Soils Engineer as referred to in the Grading Ordinance.
- Standard Plans - Standard Detail Drawings of the Engineering Section of the Public Utilities Department, Water Division, of the City of Riverside, which drawings are also referred to as Standard Drawings.
- Surface Course - The top layer of pavement (exclusive of open graded A.C.), designed to provide structural values and a surface resistant to traffic abrasion.
- Traveled Way - That portion of the roadway reserved for the movement of vehicles for the general public, exclusive of shoulders and auxiliary lanes. Where traffic has been diverted or restricted to certain lanes, with the approval of the Traffic Engineer, these diversions or restricted lanes become the traveled way.
- Right-of-Way - Includes City of Riverside Public Right-of-Way and City of Riverside Public Easements.

1-3 ABBREVIATIONS

1-3.2 Common Usage

- AV Air Valve
- B/B Bell by Bell
- BFV Butterfly Valve
- Bk Back

BO	Blow Off
B/S	Bell by Spigot
C	Caulked
Cad	Cadmium
CC	Corporation Cock
CML&C	Cement-mortar lined and coated
Cplg	Coupling
CT	Compound Turbine
CTF	Cut to Fit
DIP	Ductile Iron Pipe
DIPRA	Ductile Iron Pipe Research Association
Elec	Electrical
EII	Elbow
F/B	Flange by Bell
F/F	Flange by Flange
Flg	Flange or Flanged
FPT	Female Pipe Thread
F/S	Flange by Spigot
G	Gas line or service
gpm	Gallons per minute
GV	Gate Valve
HPI	Horizontal Point of Intersection
IPF	Iron Pipe Female
IPM	Iron Pipe Male
IPT	Iron Pipe Thread
LD	Loop Detector
MHT	Male Hose Threads
ML&C	Mortar Lined and Coated
NPDES	National Pollutant Discharge Elimination System
NRS	Non-Rising Stem
OO	Out to Out
OSY	Outside Screw and Yoke
Perp	Perpendicular
ppm	Parts Per Million
PT	Pipe Threads
RWGV	Resilient Wedge Gate Valve
S	Sewer main or house lateral
St Lt	Street Light
SW	Sweat Weld
SWP	Standard Working Pressure
t	Thick
UG	Underground
VPI	Vertical Point of Intersection
w/	With
W	Water Main or Service
WO	Work Order

1-3.3 Institutions

CDPH – California Department of Public Health
CRSI Concrete Reinforcing Steel Institute
CWD City Water Division
PWD Public Works Department
SSPWC Standard Specifications for Public Works Construction

All institution publications shall be the latest edition unless otherwise shown on the construction drawings, standard drawings, or these specifications.

1-4 SYMBOLS

Symbols shown on Plans, Water Division Standard Drawings, and Public Works Department Standard Drawings also apply.

SECTION 2 - SCOPE AND CONTROL OF THE WORK

2-1 and 2-2 DELETED

2-5 PLANS AND SPECIFICATIONS

2-5.1 General

The work embraced herein shall be done in accordance with the provisions of the “Greenbook” STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (Latest Edition and all supplements), prepared by Public Works Standards, Inc. (Published by BNI Publications, Inc.), insofar as the same may apply, which specifications are hereinafter referred to as the Standard Specifications, and as provided herein.

Should any discrepancy or apparent error occur in Plans and Specifications, or should any work of others affect this work, the Contractor shall notify the Private Engineer at once. If the Contractor proceeds with the work affected without instructions from the Private Engineer, he/she shall correct any resultant damage or defect.

2-5.2 Precedence of Plans and Specifications

In the event of any discrepancy between any drawing and the figures written thereon, the figures shall be taken as correct. Detailed drawings shall prevail over general drawings.

2-5.3 Shop Drawings

Shop drawings need not be reproducible. A minimum of two copies shall be submitted to the Engineer for approval.

2-5.4 Plans

Plans shall be submitted for approval by City, and shall bear the signature and seal of the Private Engineer, with expiration date. The project location, nature, size, extent, form and detail of its various features shall be shown on the Plans prepared by the Private Engineer.

2-5.5 Certification

Written original letters of compliance from the manufacturer and/or supplier on valves, pipe or mechanical equipment shall be submitted to the City at the preconstruction conference. Maintenance manuals, parts list and related drawings shall be submitted prior to acceptance by City.

2-9 SURVEYING

2-9.5 Line and Grade

Flagged stations and elevations shown on the Plan shall be staked by the Private Engineer. Survey staking shall only be required for alignment, flowline of pipe, and stationing of fittings, valves and other appurtenances. Contractor shall lay pipe and appurtenances to all points shown on the grade sheet. Grade stakes shall be set at minimum 25-foot intervals. Grade stakes will also be required where profile details are shown on the plans with stations and flowline elevations.

2-9.6 Grade Sheets

The Private Engineer shall issue grade sheets after obtaining approval from the City. No grade sheet shall be issued until Contractor has obtained and paid for all construction permits. (See Section 7-5.) In addition, inspection will be scheduled only when grade sheets have been received by the inspector.

Where proposed improvements are entirely or partially located in a newly constructed fill, the Private Engineer shall issue grade sheets only after compaction of fill has been completed as verified by the Soils Engineer. Survey staking shall be done by the Private Engineer.

2-11 INSPECTION

A City Inspector will be required on the job site at all times as deemed necessary by the City. The Contractor is also obligated to arrange inspection by other agencies as required by State or local laws. All work carried out by the Contractor without the Inspectors knowledge will be required to be repeated at no cost to the City. Inspection of the work shall not relieve the contractor of the obligation to fulfill all conditions of the contract.

2-11.1 Overtime Inspection

Payment for inspection during overtime hours, beyond a normal eight hour, Saturdays, Sundays and City Holidays will be deducted from the Contractors payment at the rate of

one and one-half the Inspectors hourly pay rate plus overhead. Time from midnight to 7:00 a.m. will be deducted at two times the Inspectors pay rate plus overhead.

2-11.2 City Holidays

CITY HOLIDAYS WILL BE OBSERVED ON THE FOLLOWING DAYS:

January 1st New Years Day
Third Monday in January Martin Luther King Jr's Birthday
Third Monday in February President's Day
Last Monday In May Memorial Day
July 4th Independence Day
First Monday in September..... Labor Day
Second Monday in October Columbus Day
November 11 Veteran's Day
Fourth Thursday in November Thanksgiving Day
The day following Thanksgiving Day
December 25 Christmas Day

If a holiday falls on a Saturday, it will be observed on the preceding Friday. If a holiday falls on a Sunday, it will be observed on the following Monday.

SECTION 4 - CONTROL OF MATERIALS

4-0 GENERAL

All affidavits of compliance and certifications referenced herein shall be addressed to the City of Riverside, identify the items supplied, and specify the project or plan number for which the material is being supplied.

4-1 MATERIALS AND WORKMANSHIP

4-1.2.1 Property Rights in Material

After the Contractor has the material attached or affixed to the work or the soil, and after RPU accepts the system, it shall become the property of the City.

4-1.4 Tests of Materials

The following conditions and materials will be tested by a private laboratory at the expense of the Contractor and submitted to the City, in addition to the required manufacturer's or other tests specified: structural concrete, bedding materials and relative compaction. Tests may be required by the City at the expense of the Contractor in such number and at such locations as deemed necessary by the Engineer to insure compliance with Specifications.

SECTION 5 - UTILITIES

5-2 PROTECTION

Sewer laterals which are accidentally broken while working on a trench shall be repaired by the Contractor at Contractor's expense. Construction to be in accordance with City of Riverside Public Works Department Standard Drawing No. 554. The Contractor shall call Underground Service Alert (DIG ALERT) at 1-800-227-2600, two working days before proceeding with any excavation work.

SECTION 6 - PROSECUTION, PROGRESS AND ACCEPTANCE OF THE WORK

6-3 SUSPENSION OF WORK

6-3.3 Suspension of Work Due to a Stage III Smog Episode

No work shall be done on a day for which a Stage III smog episode is forecast as defined by the Air Quality Management District (AQMD). Such a suspension will be without any liability to the City. When the AQMD predicts that a Stage III episode level will be reached the following day, an announcement containing the specifics will generally be provided by 2:00 p.m. on the day the prediction is made.

6-8 COMPLETION AND ACCEPTANCE

6-8.1 One-Year Guarantee

The Contractor shall be responsible for and guarantee the maintenance of all workmanship and materials for a period of one year following the completion and final acceptance by the City. Any defective labor and materials furnished in the performance of the work shall be repaired or replaced immediately. The Engineer may elect to repair or replace the defective work by the use of City forces or any other methods, at the Contractor's expense, if Public Safety is endangered.

SECTION 7 - RESPONSIBILITIES OF THE CONTRACTOR IN THE CONDUCT OF HIS WORK

7-3 LIABILITY INSURANCE

The liability insurance shall be issued by an insurance company or companies authorized to transact liability insurance business in the State of California, shall cover comprehensive general and automobile liability for both bodily injury (including death) and property damage, and shall contain the following provisions:

1. Comprehensive General Liability Coverage
2. Premises - Operations Coverage

3. Independent Contractor
4. Underground Hazard Coverage
5. Coverage for owned and non-owned automobiles.
6. Manufacturers and Contractors liability.
7. Broad form property damage in any case where the Contractor has any property belonging to the City in Contractor's care, custody or control.
8. Owners and Contractors protective liability.
9. Blanket contractual liability.
10. Products and completed operations coverage.
11. Coverage for collapse, explosion, and excavation.
12. An endorsement containing the following provisions:
"Solely as respects work done by or on behalf of the named insured for the City of Riverside, it is agreed that the City of Riverside and its officers and employees are added as additional insureds under this policy. It is further agreed that the other insurance conditions of the policy are amended to conform herewith."
13. An endorsement or rider providing that in the event of expiration, material change, or proposed cancellation of such policy or policies for any reason whatsoever, the City shall be notified by registered or certified mail not less than 30 days before such expiration, material change or cancellation is effective.

7-5 PERMITS

No work shall be started within the right-of-way or Public Utilities easement until the Contractor has obtained all necessary permits. The Contractor shall submit to the City at the Preconstruction Conference a copy of the required City Public Works Department, Street Opening Permit, or Riverside County Encroachment Permit, and a State Excavation Permit, if applicable. Contractor shall be licensed in accordance with the California Business and Professions Code. Contractor shall have an active Class A (General Engineering) or Class C-34 (Pipeline) Contractors license. The Contractor shall obtain and pay for all permits and fees and give all notices necessary and incidental to the due and lawful prosecution of the work and to the preservation of the Public Health and Safety.

7-5.1 Licenses

The Contractor shall obtain at Contractor's expense all licenses necessitated by Contractor's operations. Prior to starting any work, the Contractor shall be required to have a City of Riverside Business Tax Registration valid for the life of the contract. Contractor's

subcontractors shall also have registrations valid for the time they are engaged in the work.

7-10 PUBLIC CONVENIENCE AND SAFETY

The Contractor shall obtain written approval from the City Traffic Engineer for variances from the traffic provisions of this section.

7-10.1 Traffic and Access

In general, the following traffic and access control measures will be required:

- (a) The Contractor is responsible to provide and deploy traffic control and traffic access measures in compliance with the standards and requirements of the City of Riverside, or County of Riverside, Traffic Divisions.
- (b) The Contractor shall avoid starting a new project on a Friday, or before a holiday, if the work will restrict traffic flow.

7-10.2 Storage of Equipment and Materials in Public Streets

Approval must be obtained from the local governing agencies to store equipment or materials within or along side the public right-of-way.

7-10.3 Street Closures, Detours, Barricades

The Contractor will be required to get approval for signing and barricading from the local governing agencies' Traffic Engineer prior to starting any operation which will interfere with the normal flow of traffic. For convenience to the Contractor in complying with the other provisions of this section, refer to the telephone numbers located in Section 10-1 of this Specification.

If the telephone numbers in Section 10-1, are changed, or if project location is within another governing agencies' jurisdiction, the Contractor is not relieved of the responsibility of notifying the various departments.

Construction signs, barricades, and their applications shall conform with the most current issues of the State of California Business and Transportation Agency, Department of Transportation, Division of Operations "Uniform Sign Chart" and the "Manual of Traffic Controls" for Construction and Maintenance Work Zones and the City of Riverside Public Works Department Standard Drawing No. 658.

7-10.4.2 Use of Explosives

Blasting permits shall be obtained from the Fire Department or other local agencies if outside City limits.

7-10.4.4 Public Safety During Non-Working Hours

Notwithstanding the Contractor's primary responsibility for safety on the job site, when the Contractor is not present, the Engineer at his option after attempting to contact the Contractor may direct City forces to perform any functions Contractor may deem necessary to ensure public safety at or in the vicinity of the job site. If such procedure is implemented the Contractor will bear all expenses incurred by the City. In all cases the judgment of the Engineer shall be final in determining whether or not an unsafe situation exists.

7-16 FLOOD HAZARDS AND DRY WEATHER FLOW

Special attention is directed to possible flood hazards and/or nuisance water such as irrigation and other runoff. The Contractor shall be responsible for all injuries or damages to any portion of the work occasioned by the above causes and Contractor shall make good such injuries or damages at no cost to the City prior to the completion and acceptance of the work.

7-17 UNSAFE WORKING CONDITIONS

If the Engineer or his representative is of the opinion that an unsafe working condition exists, Engineer shall immediately notify the Contractor and the appropriate agency for a determination. If in the opinion of the Engineer the unsafe working condition is not corrected immediately and satisfactorily, a written Notice to Stop Work will be given to the Contractor. Work will not commence until the unsafe condition has been corrected.

SECTION 8 - FACILITIES FOR AGENCY PERSONNEL

8-1 GENERAL

Facilities for agency personnel will not be required.

SECTION 10 - TELEPHONE

10-1 TELEPHONE

The Contractor shall maintain a telephone where the Contractor or Contractor's responsible agent may be reached at all hours during the day or night for emergencies. The number shall be given to the Water Inspector, Police, Public Works Department, City Traffic Engineer and any other necessary parties. For convenience to the Contractor in complying with the other provisions of this section, the following telephone numbers are listed:

Police Department	826-5700
Fire Department	826-5321
Traffic Engineering Division	826-5366
Traffic Signal Maintenance	351-6096
Street Light Repair	351-6005
Street Superintendent	351-6127

Electric	782-0330
Water	782-0330
American Medical Response	
Ambulance Service	684-5520
RTA	684-0850
Riverside Schools	509-0838 (for bus lines)
Special Services Transportation	687-8080 (for bus lines)
Alvord Schools	509-5095 (for bus lines)
AT&T (Emergency)	1-800-288-2020
So. Cal Gas (Emergency)	1-800-427-2200