

RESOLUTION NO 16201

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF REDWOOD CITY APPROVING AND ADOPTING REVISIONS TO ENGINEERING STANDARDS FOR THE CITY OF REDWOOD CITY

WHEREAS, under Section 29.1 of the Municipal Code, the City Council may approve amendments to engineering standards, specifications, and regulations recommended by the City Engineer; and

WHEREAS, on November 25, 2019, the City Council adopted Resolution No. 15802 approving those certain documents entitled, "Standard Technical Specifications", "City Standard Details", and "Design Criteria", collectively described as "Engineering Standards for the City of Redwood City"; and

WHEREAS, on January 24, 2022, the City Council adopted Resolution No. 16020 revising the Engineering Standards for the City of Redwood City; and

WHEREAS, the City Engineer recommends additional revisions to the Engineering Standards for the City of Redwood City in order to meet current local and State codes and regulations, and to clarify standards and specifications of public works improvements and construction; and

WHEREAS, the revisions to the Engineering Standards for the City of Redwood City are summarized in Exhibit A - Engineering Standards Summary of Revisions – January 22, 2024, and a complete digital edition of the three volumes is available for review at the City Clerk's office; and

WHEREAS, the City Council reviewed and considered the revisions to the Engineering Standards for the City of Redwood City.

NOW, THEREFORE, BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF REDWOOD CITY, AS FOLLOWS:

1. The revised Engineering Standards for the City of Redwood City dated January 22, 2024, attached to the staff report and on file with the City Clerk's Office and the City's Division of Engineering and Transportation, are hereby approved and adopted as the City's minimum standards, specifications, and regulations for the construction of public works improvements in the City of Redwood City; provided, however, that nothing herein contained shall be deemed to limit the authority of this Council, or any commission, board or officer of the City to require higher or different standards as may otherwise be duly authorized or required.
2. The Director of the Community Development and Transportation Department or their designee and any and all other duly authorized officers of the City of Redwood City are hereby authorized and directed to implement the revised standards.
3. This resolution shall go into effect immediately upon adoption.

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EXHIBIT A

**ENGINEERING STANDARDS
REVISION SUMMARY – JANUARY 22, 2024**

Notice: This summary is intended to provide a quick reference and may not contain all the changes. A redlined version of those Engineering Standards proposed for revision is attached to the Staff Report and electronic copies of the revised three volume set is available for review at the City Clerk's office.

VOLUME I – STANDARD SPECIFICATIONS

- SECTION 01 3500 NOTIFICATION TO RESIDENTS AND BUSINESSES**
Updated section numbering for consistency.
- SECTION 02 1000 CLEARING, GRUBBING, AND STRIPPING**
Updated section numbering for consistency.
- SECTION 02 2020 TRENCHING AND BACKFILL**
Updated section numbering for consistency.
- SECTION 02 2060 ROCKSLOPE PROTECTION**
Updated section numbering for consistency.
- SECTION 02 2200 GRADING AND EARTHWORK**
Updated section numbering for consistency.
- SECTION 02 5000 ASPHALT PAVING AND SURFACING**
Updated section numbering for consistency.
- SECTION 02 5300 ASPHALT RUBBER CHIP SEAL**
Updated section numbering for consistency.
- SECTION 02 5500 CONCRETE IMPROVEMENTS**
Updated section numbering for consistency.
- SECTION 02 6600 WATER SYSTEMS**
Revised for clarity. Revised heterotrophic plate count (HPC) test requirements. Updated section numbering for consistency.
- SECTION 02 6610 CATHODIC PROTECTION**
Revised for clarity. Updated section numbering for consistency.
- SECTION 02 6620 RECYCLED WATER SYSTEMS**
Revised for clarity. Removed references to pipe disinfection. Updated section numbering for consistency.

- SECTION 02 6700 UTILITY POLYETHYLENE CONTAINMENT PIPE SYSTEMS**
Updated section numbering for consistency.
- SECTION 02 7200 STORM DRAINAGE**
Updated section numbering for consistency.
- SECTION 02 7300 SANITARY SEWERS**
Revised for clarity. Updated section numbering for consistency.
- SECTION 02 7310 CLEANING OF PIPE**
Revised for clarity. Updated section numbering for consistency.
- SECTION 02 7320 CLOSED CIRCUIT TV INSPECTION OF PIPE**
Revised for clarity. Updated section numbering for consistency.
- SECTION 02 7330 POINT REPAIR**
Revised for clarity. Updated section numbering for consistency.
- SECTION 02 7340 PIPE BURSTING**
Revised for clarity. Updated section numbering for consistency.
- SECTION 02 7350 PRECAST CONCRETE MANHOLES**
Revised for clarity. Removed manhole steps section. Updated section numbering for consistency.
- SECTION 02 7370 CURED IN PLACE PIPE (CIPP)**
Revised for clarity. Changed time requirement for sewage bypass pumping and/or diversion plan submission to 15 working days. Added a table for CIPP defects and remedies. Updated section numbering for consistency.
- SECTION 02 7380 MANHOLE REHABILITATION**
Revised for clarity. Updated Table 502-5.3.4. Updated section numbering for consistency.
- SECTION 02 7400 FLOW BYPASS SYSTEMS**
Revised for clarity.
- SECTION 02 7500 REMOVAL AND DISPOSAL OF EXISTING MANHOLE**
Revised for clarity. Updated section numbering for consistency.
- SECTION 02 8400 ROADWAY MARKING ACCESSORIES**
Updated section numbering for consistency.
- SECTION 02 9000 LANDSCAPING**
Updated section numbering for consistency.
- SECTION 02 9100 IRRIGATION**
Updated section numbering for consistency.
- SECTION 16 5000 SIGNALS, LIGHTING AND ELECTRICAL SYSTEMS**
Updated section numbering for consistency.

VOLUME II – STANDARD DETAILS

- AA-1 IMPROVEMENT PLAN LEGEND**
Recycled water legends added.
- AA-2 IMPROVEMENT PLAN ABBREVIATIONS**
Recycled water abbreviations added.
- A-8 SPEED CUSHIONS**
New standard.
- C-1b RESIDENTIAL DRIVEWAY APPROACH**
Clarification that the 1" measurement represents a 1" lip above the flow line added.
- D-2b JUNCTION BOX / AREA DRAIN**
Note 5 for ADA compliant grates added.
- E-7 STREET LIGHT (REDWOOD SHORES)**
Luminaires changed from high pressure sodium vapor to LED.
- FP-1 FIRE SERVICE (SYSTEM LAYOUT PLAN)**
Detail removed.
- M-1 STANDARD STREET MONUMENT (PLACEMENT AND CASTING)**
Surveyor's note modified.
- M-2 STANDARD SURVEY MONYMENT (INSTALLATION IN MARSH OR UNSTABLE SOIL)**
Callout updated to clarify construction.
- M-3 TYPE I MANHOLE (PIPES 6" TO 21")**
Removed manhole steps. Added callout to call for wrapping of manhole barrel joints. Revised for clarity.
- M-4 TYPE II MANHOLE (PIPES 24" to 48")**
Removed manhole steps. Added pipe joints and related callouts. Removed #4 hoop bars.
- M-5 TYPE III MANHOLE (PIPES LARGER THAN 48")**
Removed manhole steps. Added #4 hoop bars to section view. Adjusted leaders.
- M-6 MANHOLE FRAME AND COVER**
Revised pick hole location. Added note #5.
- M-7 MANHOLE STEP FOR PRECAST MANHOLE**
Removed from Standards.
- RW-6 ABOVE GROUND COMBINATION AIR VACUUM RELEASE VALVE**
Table notes modified.
- S-1a SANITARY SEWER LATERAL (NEW CONNETION TO EXISTING MAIN)**
Revised for clarity.

- S-2 SANITARY SEWER LAMPHOLE**
Removed from Standards.
- S-3a SANITARY SEWER LATERAL (NEW HDPE TO NEW MAIN)**
Removed transition coupling. Revised for clarity to callouts.
- S-3b ELECTROFUSION SADDLE (NEW HDPE TO NEW MAIN)**
Replaced HDPE to HDPE join with butt fusion joint.
- S-4a SANITARY SEWER LATERAL (NEW HDPE TO EXIST HDPE)**
Updated note 4.
- S-5a SANITARY SEWER LATERAL (NEW PVC TO NEW CIPP)**
Updated note 5.
- S-5b WYE SADDLE (NEW PVC TO NEW CIPP)**
Updated note 1.
- S-6a SANITARY SEWER LATERAL (NEW HDPE SDR 17 CONNECT. TO NEW PVC SDR 26 MAIN)**
Updated note 4.
- S-7a SANITARY SEWER LATERAL (NEW PVC SDR 26 CONNET. TO NEW PVC SDR 26 MAIN)**
Updated note 4.
- W-1 (HDPE) WATER SERVICE LINE FOR 5/8 INCH TO 2 INCH METERS**
Added new callouts.
- W-1 (PVC) WATER SERVICE LINE FOR 5/8 INCH TO 2 INCH METERS**
Added new callouts.
- W-33 REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTION DEVICE FOR IRRIGATION AND DOMESTIC SERVICES**
Changed wording in title block.
- Z-8 IRRIGATION CONTROLLER**
Added antennas, communication card, and related callouts.
- Z-22 TREE IRRIGATION**
New standard.

VOLUME III – DESIGN CRITERIA

PART VI SANITARY SEWER SYSTEM DESIGN CRITERIA

Revised for clarity. Additional rows for larger pipe diameters added to the table in B3.

PART VII WATER SYSTEM DESIGN CRITERIA

Revised for clarity.

PART XII. ATTACHMENTS

Attachment A-2

WATER AND RECYCLED WATER NOTES

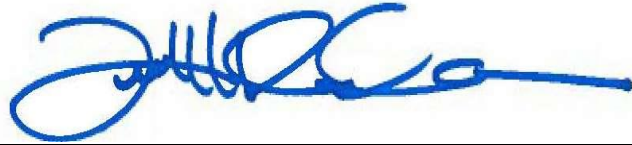
NEW PAGE FOR RECYCLED WATER NOTES ADDED. NEW NOTE FOR SPACERS AND JUMPERS ADDED. REVISED FOR CLARITY.

PART XIII RECYCLED WATER SYSTEM DESIGN CRITERIA

Fixed redundancies.

Passed and adopted by the Council of the City of Redwood City at a
Joint City Council/Successor Agency Board/Public Financing Authority Meeting
thereof held on the 22nd day of January 2024 by the following votes:

AYES: Aguirre, Eakin, Howard, Martinez Saballos, Sturken, Vice
Mayor Espinoza-Garnica, and Mayor Gee
NOES: None
ABSENT: None
ABSTAINED: None
RECUSED: None



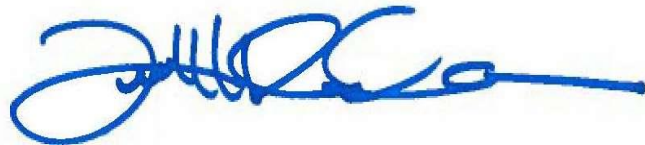
Jeff Gee
Mayor of the City of Redwood City

Attest:



Yessika Castro, CMC, CPMC
City Clerk of Redwood City

I hereby approve the foregoing resolution this
23rd day of January 2024.



Jeff Gee
Mayor of the City of Redwood City