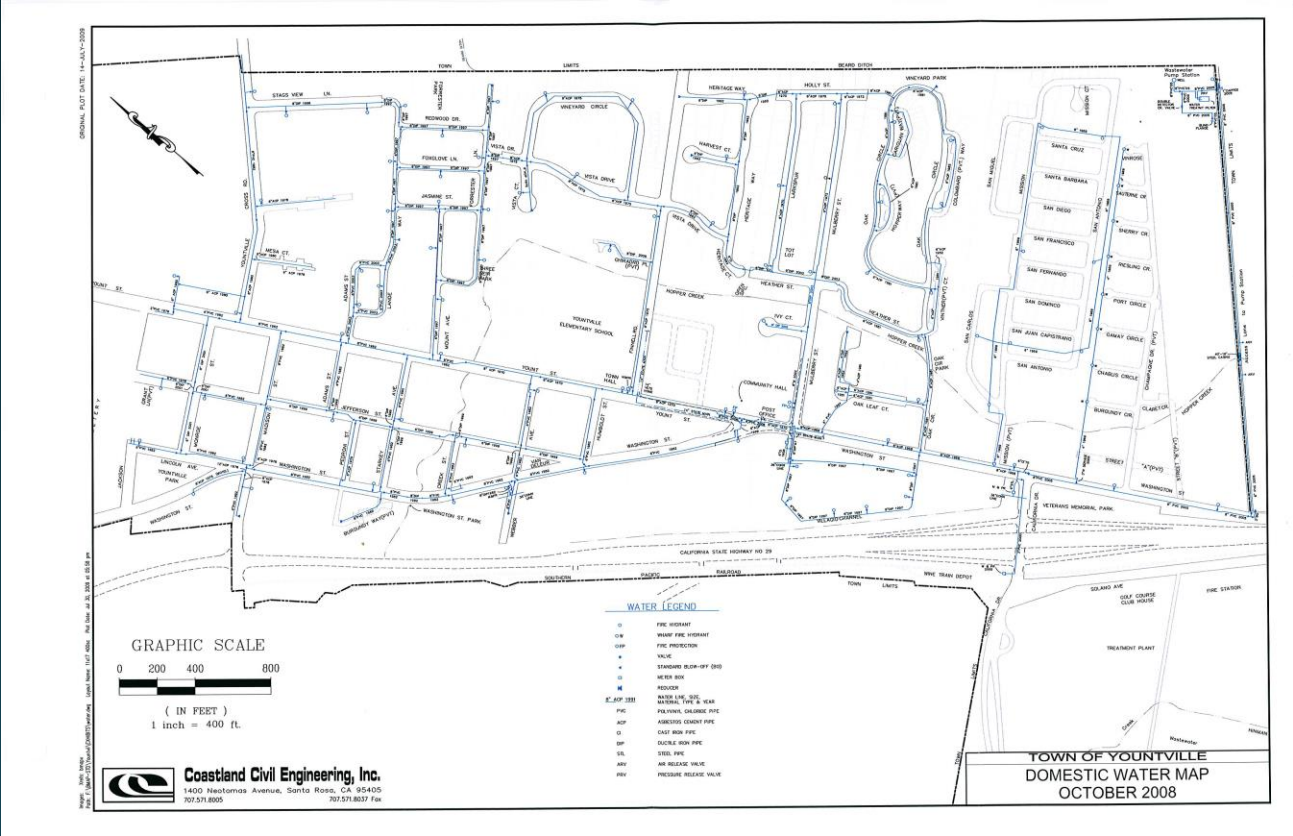




Planning for
the Future

Water Distribution

- Operation & maintenance of 10.7 miles of water distribution system including:
 - 831 metered connections
 - 35 fire protection services
 - 100 fire hydrants
 - 15 “dead-end” blow offs
 - 500 isolation valves
 - 4 dedicated sample stations
 - 27 Town owned backflow prevention devices
 - 2 ressure regulated valves (PRV) tied to the Rector Water Treatment Plant
 - 1 active PRV tied to City of Napa transmission main
 - 1 emergency well



- ORIGINAL PLOT DATE: 11-JAN-2008

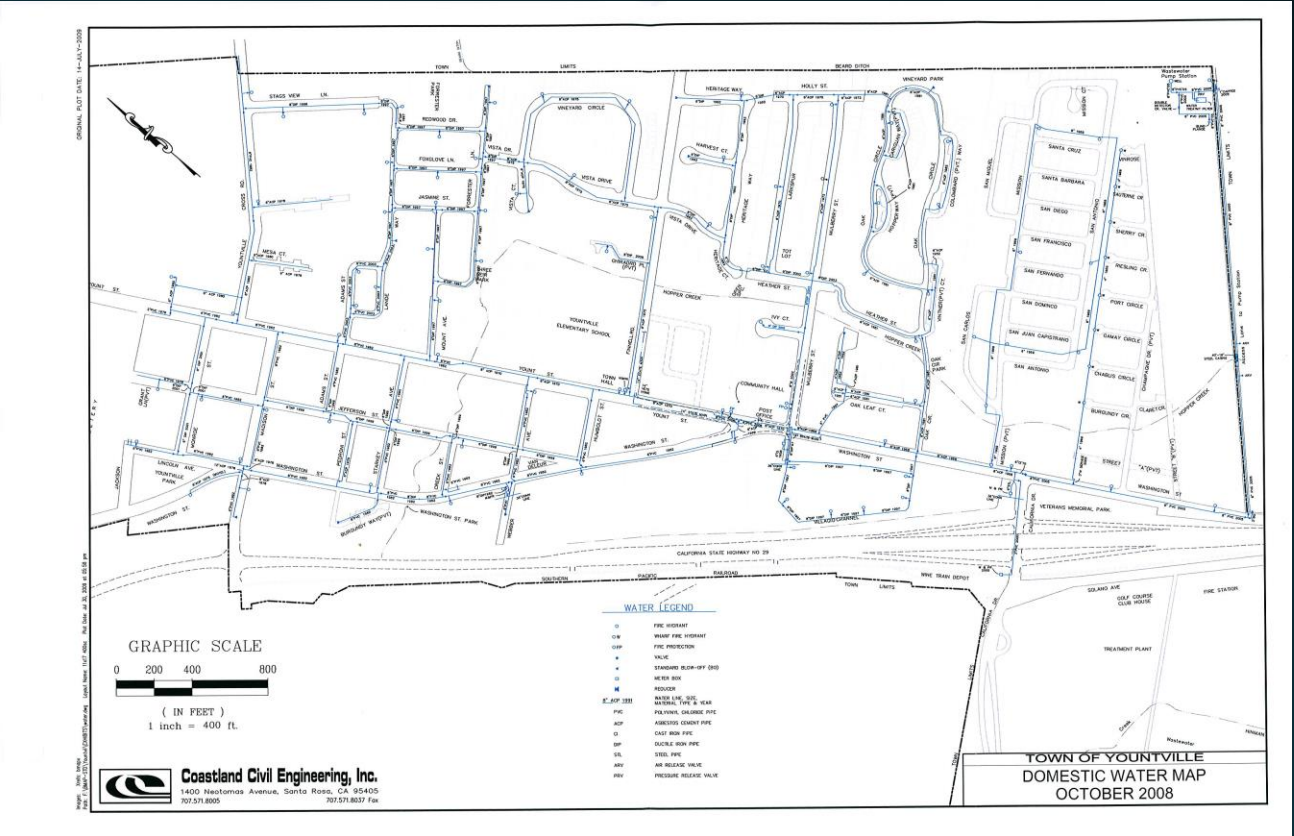
Scale: 1 inch = 400 ft

GRAPHIC SCALE
0 200 400 800
(IN FEET)
1 inch = 400 ft.

WATER LEGEND

—	FWC WISDOM
—	WISDOM FWC WISDOM
—	FWC PROTECTION
—	VALVE
—	STANDARD BURN-OFF (SBO)
—	WET BOX
—	RESIDUAL
—	WATER LINE, 10" DIA. WATER, 10" DIA. WATER
—	FWC FISHING, CHLORINE FWC
—	FWC AIRBORNE CHLORINE FWC
—	CAD BOX FWC
—	DUCKLE BOX FWC
—	WIRE TIE
—	AIR RELEASE VALVE
—	PRESSURE RELEASE VALVE

**TOWN OF YOUNTVILLE
DOMESTIC WATER MAP
OCTOBER 2008**



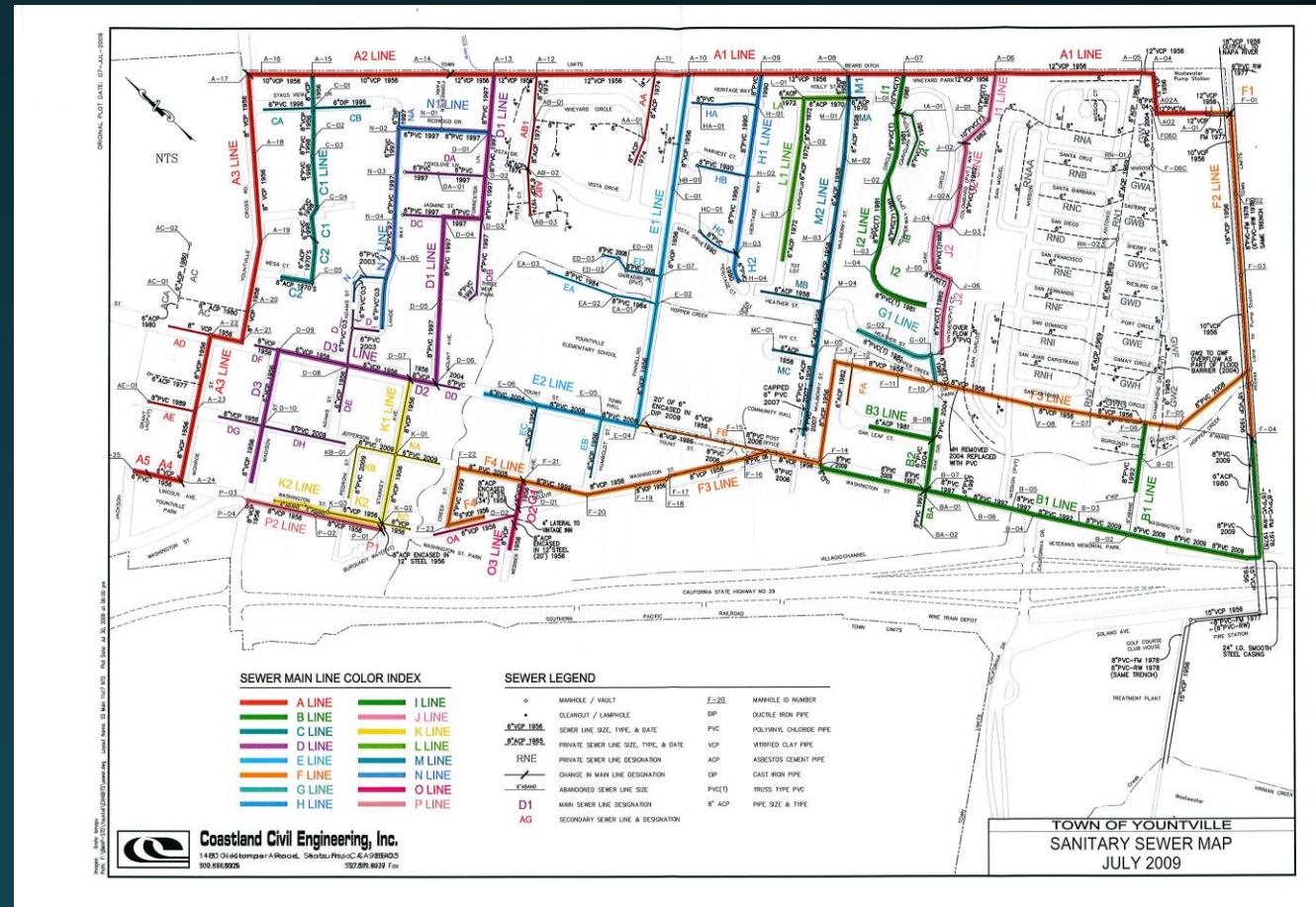
What keeps us up at night

- 5 main breaks since 2010 in Washington Park neighborhood
- Pipes originally installed in 1997
- Several other contributors:
 - Ductile iron material
 - Corrosive soils
 - Volcanic gravel used for backfill



Sanitary Sewer Collection System

- Approximately 9 miles of gravity pipelines
- 200 sewer manholes
- 6 “system loops” to help reduce SSO’s
- 1 wastewater pump station including:
 - 2 duty pumpus
 - 1 standby various electronic/air actuated instrumentation
 - Variable frequency drives (VFD’s)
 - SCADA control system and an emergency generator
- ¼ mile of sewer force main
- 1 flow meter
- Sewer cleaning vehicle for maintenance of pipelines and for emergency response



Responding to Issues

- The Town's sewer collection system was originally constructed in 1956
- Materials with long service life using modern technology and construction practices are considered the best solution for long-term reliability and cost control
- Heavy rain events contribute to additional flow to the collection system, as do inflow and infiltration (I/I)



Wastewater Reclamation Facility

- 100+ pumps, motors & blowers
- 5 flow meters
- 2 trickling filters
- 6 clarification tanks
- 2 chlorine contact chambers
- 1 “Fuzzy Filter”
- 1 two-stage sludge digestion system
- 1 effluent holding pond
- 2 sludge lagoons
- 1.5 miles of gravity outfall pipeline
- 1 emergency generator



Recycled Water Distribution System

- 2 designated recycled water pumps
- 5 pressure regulated valves
- 8 flow meters
- 5.5 miles of distribution piping
- 15 air release valves
- 23 manual isolation valves
- 5 vineyard sites that utilize recycled water for irrigation
- 1 golf course customer

