



Fiscal Year 2023-2024 Sewer Lining Project

June 17, 2025

Project Benefit – Why This Matters



Sewer Lining - Trenchless Technology

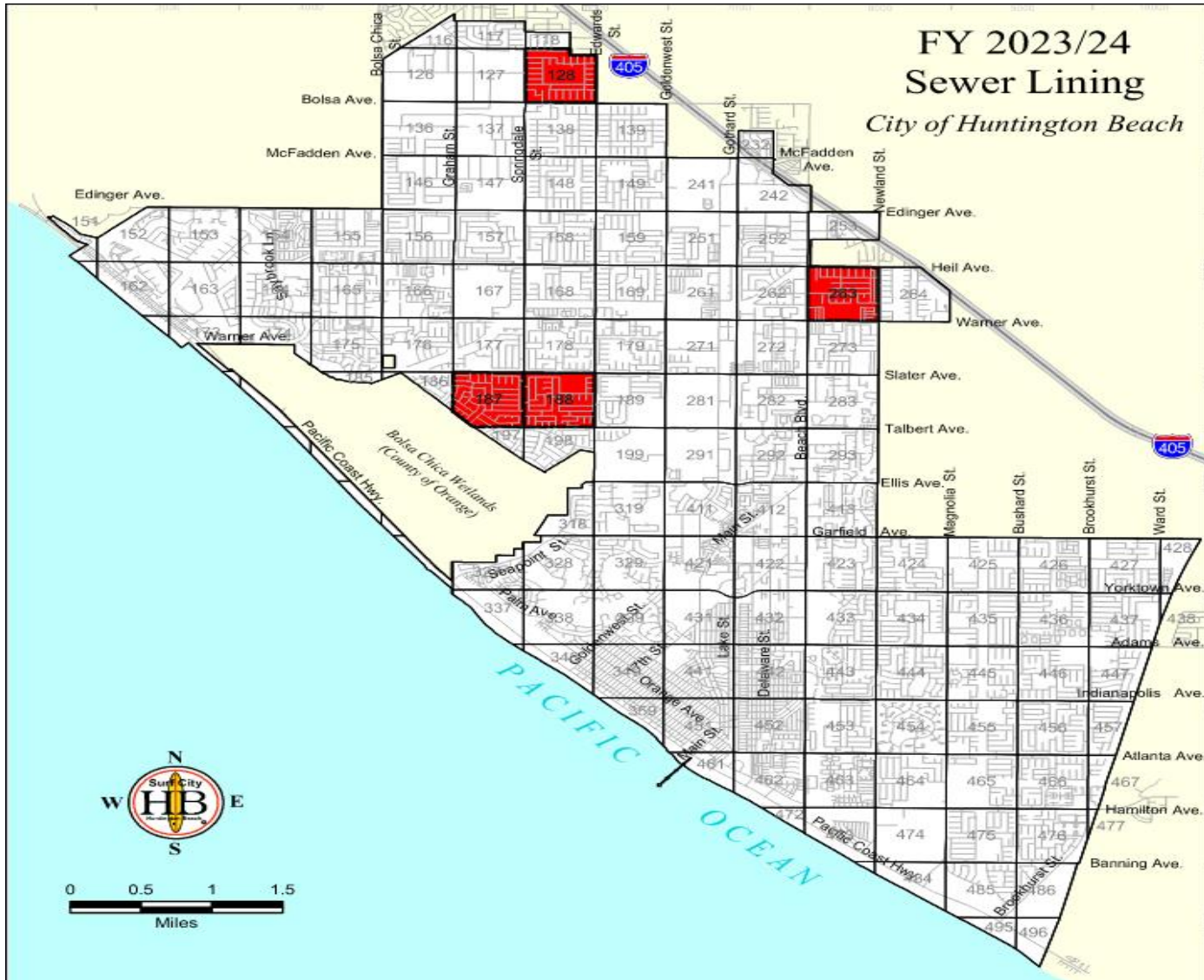


Manhole Rehabilitation

- Clean and remove calcium deposits, tree roots, and other debris from existing sewer lines
- Install a new sewer liner using trenchless technology (CIPP method), utilizing the existing pipe as a host
- A no-dig method that inserts a liner into existing pipes, avoiding open trench excavation and minimizing disruption to streets and neighborhoods
- Improve sewer flow and reduce the risk of sewer overflows
- Rehabilitate 86 manholes to maintain structural integrity and extend service life



Project Location

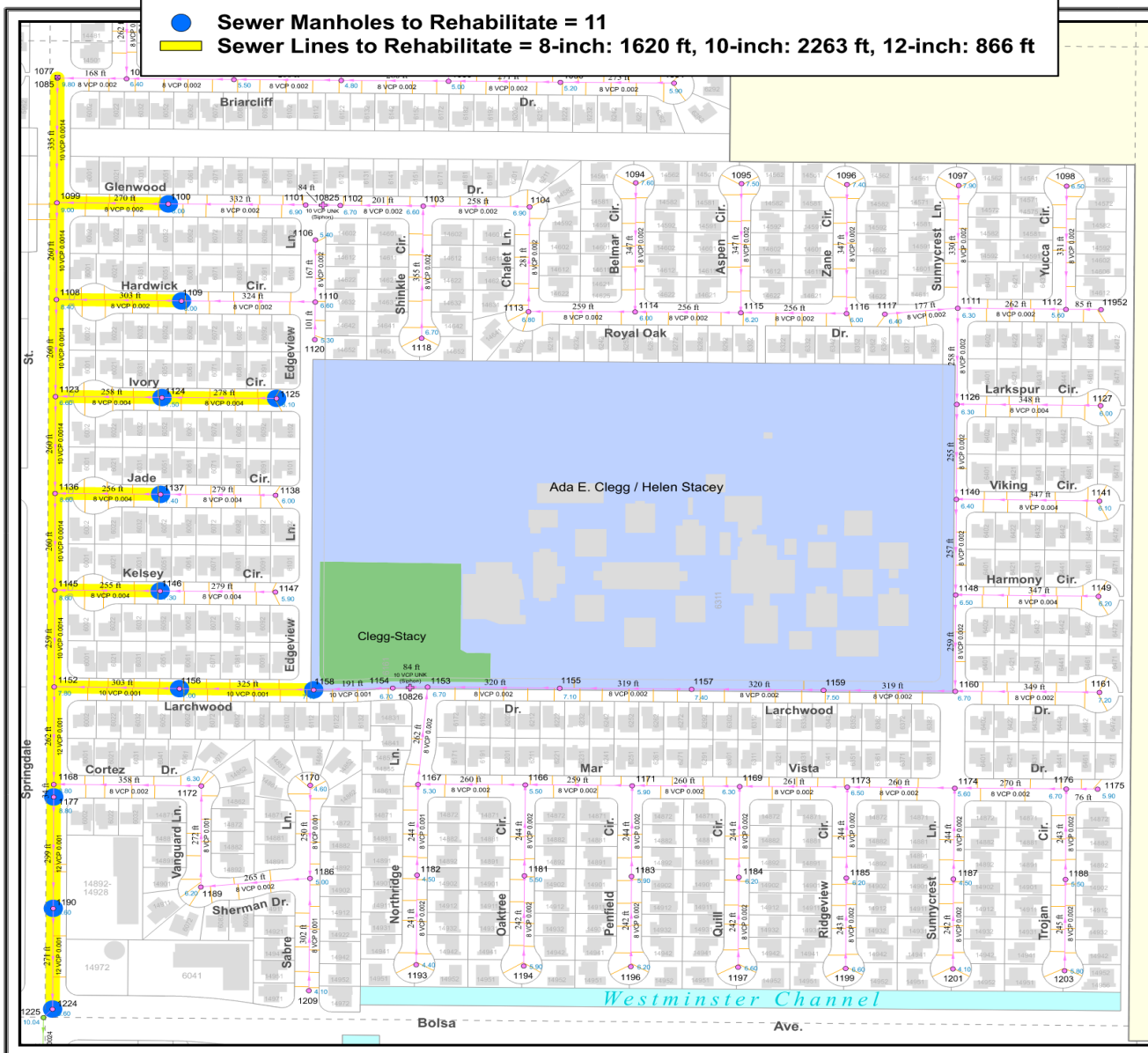


- **District 128**
Springdale/Bolsa/Edwards
- **District 187**
Springdale/Slater/Talbert
- **District 188**
Springdale/Slater/Edwards
- **District 263**
Beach/Heil/Newland/Warner



District 128

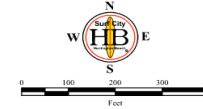
- Sewer Manholes to Rehabilitate = 11
- Sewer Lines to Rehabilitate = 8-inch: 1620 ft, 10-inch: 2263 ft, 12-inch: 866 ft



Sewer Facilities

City of Huntington Beach

November 2024



Sewer Lines

- City Sewer Line
 - Private Sewer Line
 - County Sewer Line
 - Other Sewer Line
 - Sewer Lateral
- Size: Diameter of Line in Inches
- Material:
- ABS - Acrylonitrile Butadiene Styrene
 - AC - Asbestos Cement
 - CI - Cast Iron
 - DI - Ductile Iron
 - HDPE - High Density Polyethylene
 - PVC - Polyvinyl Chloride
 - RC - Reinforced Concrete
 - SST - Stainless Steel
 - VCP - Vertified Clay (Pipe)
 - UNK - Unknown
- Slope: Slope of Line (0.002 = 0.2 %)
- * All sewer lines are 8 VCP 0.002 unless otherwise noted

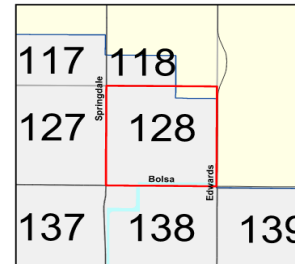
Sewer Entities

- City
 - Private
 - County
 - Other
 - Manhole
 - Cleanout
 - Plug / Cap
 - Lift Station
 - Siphon
 - Transition
 - Interceptor
 - Valve
 - Meter
- ⚡ Cathodic Protection (CP / Anode Test Stations)
- 123 Entity Index Number
- 1.23 Manhole Depth in Feet

- Parcels
- Buildings
- Parks / Golf Courses
- Schools
- City Facilities
- City Boundary
- RD Grid



Vicinity Map



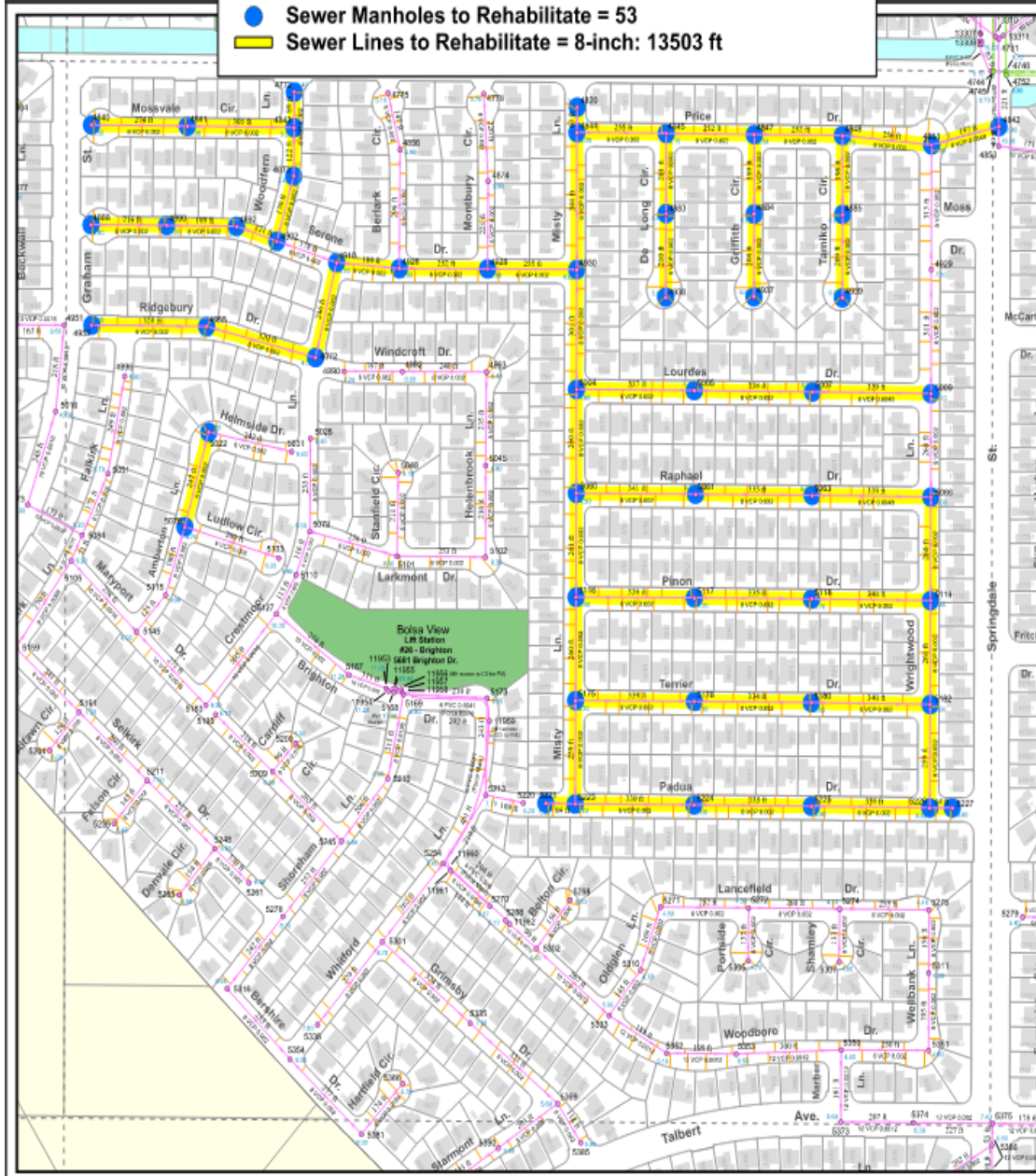
Reporting District 128

- Begins near Springdale & Briarcliff
- Extends toward Springdale & Bolsa
- 4,749 linear feet of sewer lining
- 11 manholes to be rehabilitated



District 187

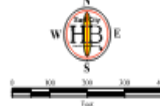
● Sewer Manholes to Rehabilitate = 53
 ■ Sewer Lines to Rehabilitate = 8-inch: 13503 ft



Sewer Facilities

City of Huntington Beach

November 2024



Sewer Lines

Size: Diameter of Line in Inches
 Material:
 City Sewer Line: A/BG - Acrylonitrile Butadiene Styrene
 Private Sewer Line: AC - Asbestos Cement
 County Sewer Line: CI - Cast Iron
 Other Sewer Line: CS - Cast Iron
 Sewer Lateral: HDPE - High Density Polyethylene
 PVC - Polyvinyl Chloride
 RCP - Reinforced Concrete
 SST - Stainless Steel
 VCP - Vertically Corrugated Polypropylene
 UNK - Unknown

123 ft
 123 ft
 123 ft

* All sewer lines are 0.002 VCP unless otherwise noted

Sewer Entities

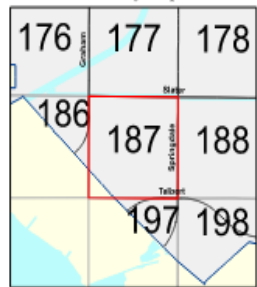
City Private County Other
 Manhole
 Cleanout
 Plug / Cap
 LRT Station
 Bypass
 Transition
 Interceptor
 Valve
 Meter

Collocated Protection
 (CP / Anode Test Station)

123 Dray Index Number
 123 Manhole Depth in Feet

Parcels
 Buildings
 Parks / Golf Courses
 Schools
 City Facilities
 City Boundary
 RD Grid

Vicinity Map

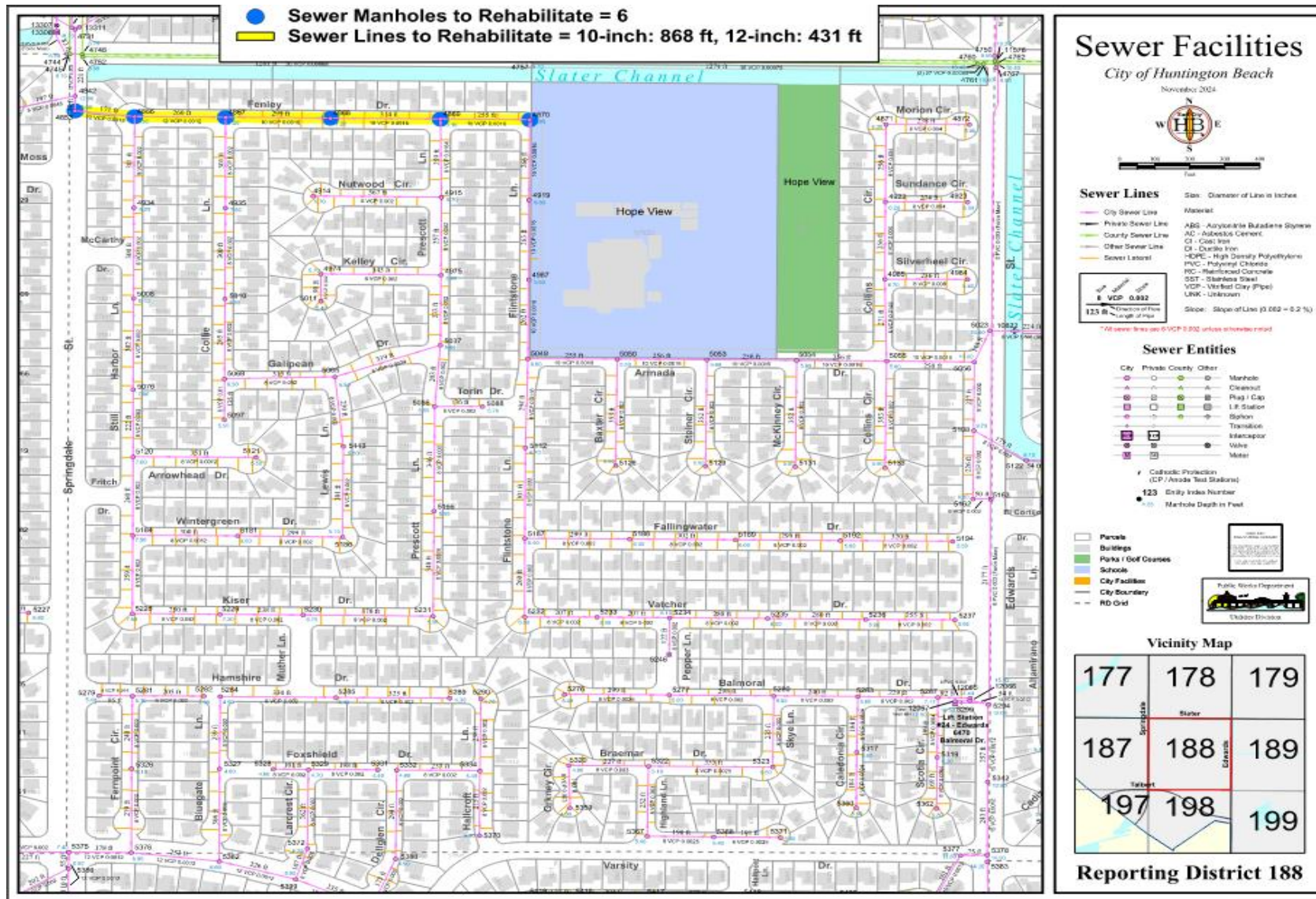


Reporting District 187

- Begins near Springdale, west of Slater
- Extends into adjacent residential tract area
- 13,503 linear feet of sewer lining
- 53 manholes to be rehabilitated



District 188

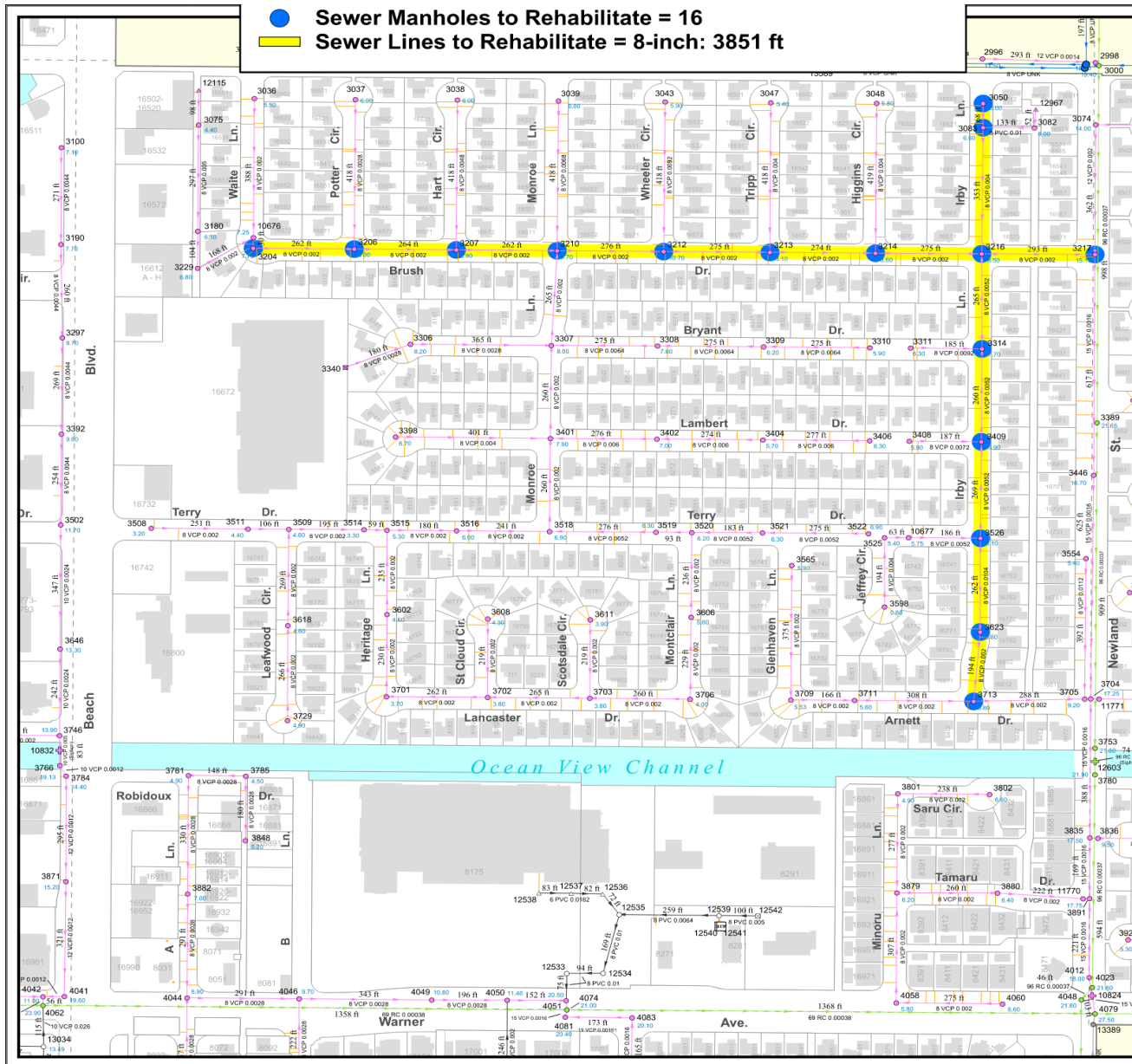


- Begins near Springdale, east of Slater
- Extends toward Flintstone on Fenley
- 517 linear feet of sewer lining
- 6 manholes to be rehabilitated



District 263

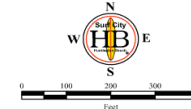
- Sewer Manholes to Rehabilitate = 16
- ▬ Sewer Lines to Rehabilitate = 8-inch: 3851 ft



Sewer Facilities

City of Huntington Beach

November 2024

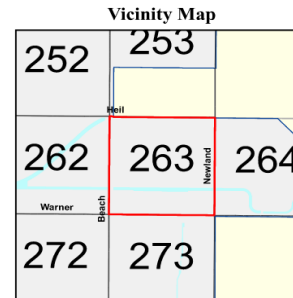


Sewer Lines

Line Style	Size	Material
City Sewer Line	8" VCP 0.002	ABS - Acrylonitrile Butadiene Styrene
Private Sewer Line	8" VCP 0.002	AC - Asbestos Cement
County Sewer Line	8" VCP 0.002	CI - Cast Iron
Other Sewer Line	8" VCP 0.002	DI - Ductile Iron
Sewer Lateral	8" VCP 0.002	HDPE - High Density Polyethylene
	8" VCP 0.002	PVC - Polyvinyl Chloride
	8" VCP 0.002	RC - Reinforced Concrete
	8" VCP 0.002	SST - Stainless Steel
	8" VCP 0.002	VCP - Vitified Clay (Pipe)
	8" VCP 0.002	UNK - Unknown

Sewer Entities

Entity	Symbol	Entity	Symbol
City	Circle	Manhole	Circle with cross
Private	Square	Cleanout	Circle with dot
County	Triangle	Plug / Cap	Square with dot
Other	Diamond	Lift Station	Square with cross
		Siphon	Circle with cross
		Transition	Circle with cross
		Interceptor	Circle with cross
		Valve	Circle with cross
		Meter	Circle with cross



Reporting District 263

- Begins near Newland, south of Heil
- Extends toward Brush and Irby
- 3,851 linear feet of sewer lining
- 16 manholes to be rehabilitated



Fiscal Year 23/24 Sewer Lining Project

- **ENGINEER'S ESTIMATE** **\$1,800,000**
- **LOWEST RESPONSIBLE AND RESPONSIVE BIDDER** **VORTEX SERVICES, LLC dba Sancon Technologies**
- **BID AMOUNT** **\$1,599,942.70**
- **TOTAL FUNDING** **\$1,900,000 (including 10% contingency and inspection)**
- **AVAILABLE FUNDS** **\$1,375,000 (Sewer Fund Account 51189024.82600)**
- **ADDITIONAL FUNDS REQUESTED** **\$525,000 (Sewer Service Fund (511))**
- **TENTATIVE CONSTRUCTION** **AUGUST 2025 through JANUARY 2026**
- **CONSTRUCTION DURATION** **APPROXIMATELY 6 MONTHS**





Questions?

