



Drainage Projects (In-House)

Drainage Division Overview – Staffing & Equipment

Staffing

- Drainage Superintendent
- (7) Equipment Operator II

Crew Development

First Drainage Crew (Oct 2023)

- Drainage Manager
- (4) Equipment Operator II

Second Drainage Crew (Oct 2025)

- Reclassified Drainage Manager to Drainage Superintendent
- (3) Equipment Operator II



Equipment Investment

First Crew Total: \$955,474.95

- 350 P Excavator - \$359,567.25
- Wheel Loader - \$352,324.70
- Backhoe Loader - \$143,859
- Lowboy Trailer - \$99,724

Second Crew Total: \$1,585,568.18


- (4) Dump Trucks - \$651,821.68
- Wheel Loader - \$216,452.79
- Excavator - \$275,000
- F-150 STX 4x4 - \$51,028
- Backhoe Loader - \$146,710.46
- Dozers - \$244,555.25

**Total Equipment Investment:
\$2,541,043.13**

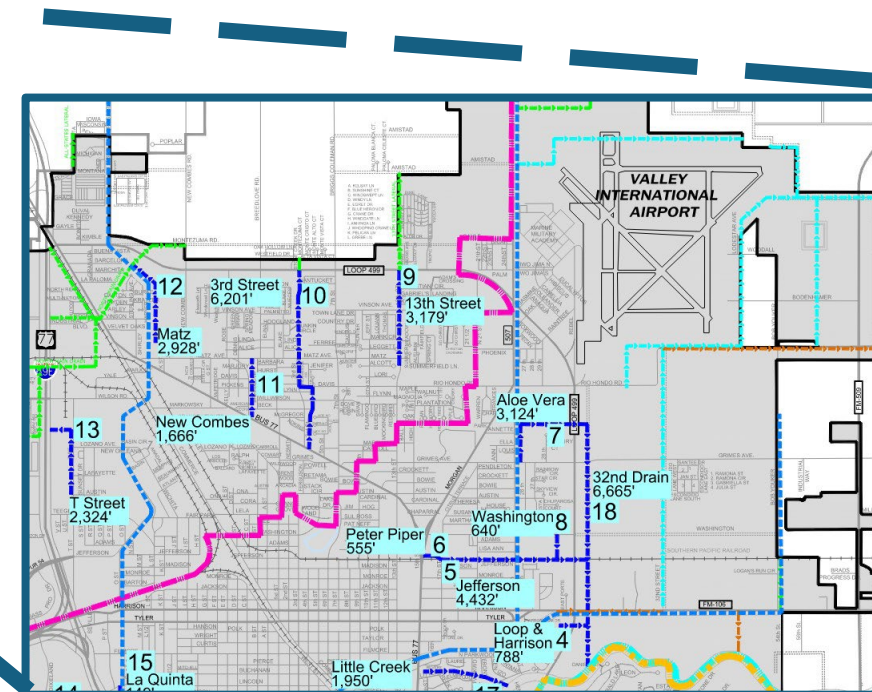
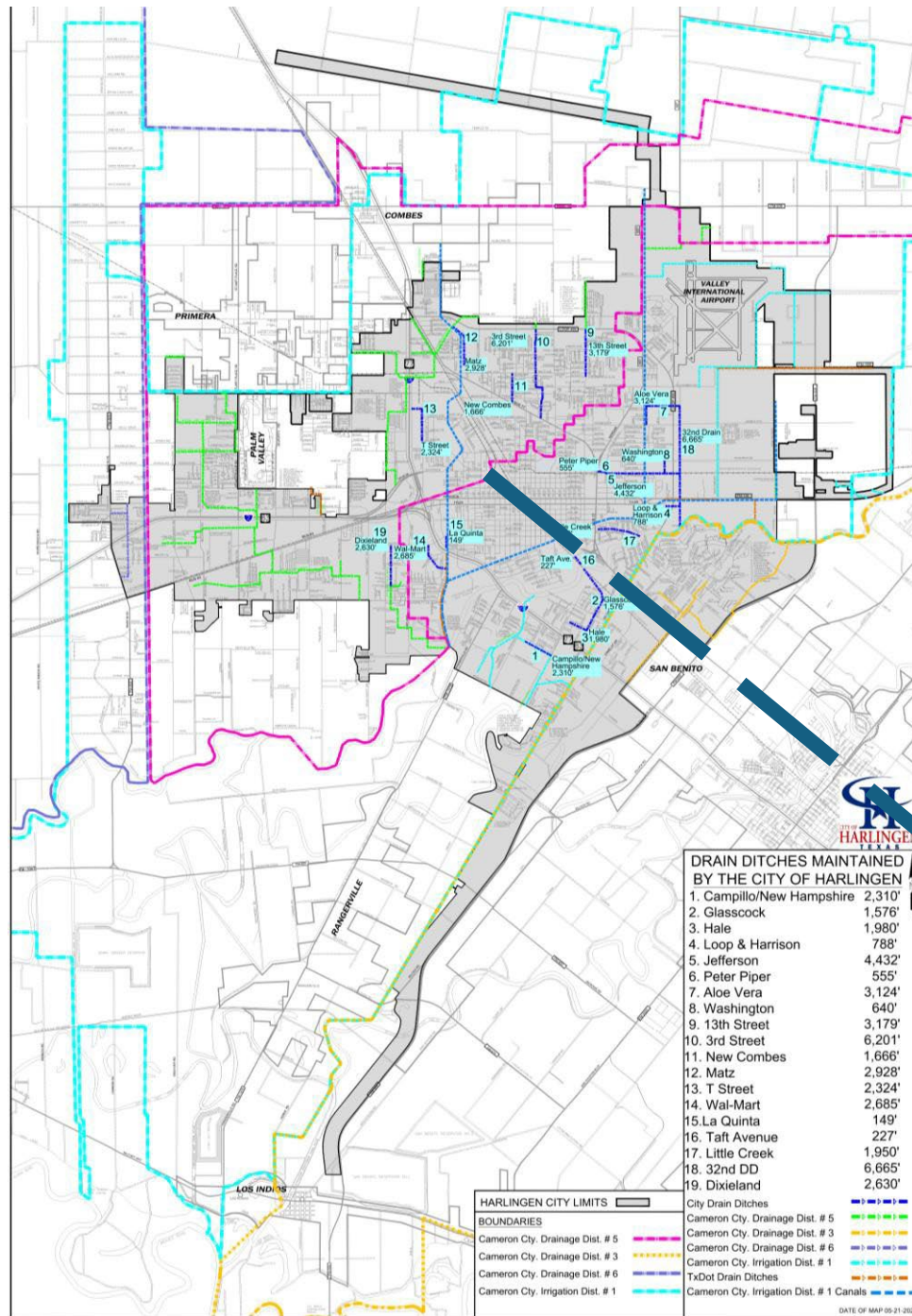


Drain Ditches

The City of Harlingen has a total of 9.20 miles of drain ditches.

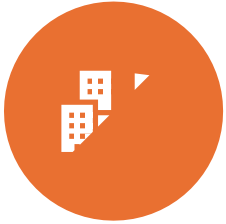
- Drainage District #5 has a total of 15.26 miles of ditches.
 - Drainage District #6 has a total of 1.64 miles of ditches.
 - Irrigation District #1 has a total of 6.32 miles of ditches.
 - Irrigation District # 3 has a total of 5.06 miles of ditches.
 - TXDOT has a total of 4.71 of ditches.
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Drain Ditches owned by City of Harlingen And Adjacent Drainage Districts



- City Drain Ditches
- Cameron Cty. Drainage Dist. # 5
- Cameron Cty. Drainage Dist. # 3
- Cameron Cty. Drainage Dist. # 6
- Cameron Cty. Irrigation Dist. # 1
- TxDot Drain Ditches
- Cameron Cty. Irrigation Dist. # 1 Canals

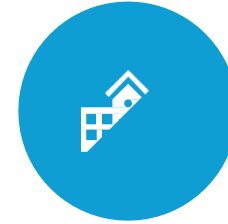
What do the MOU's do?



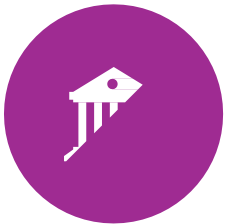
Enables the City to assist in drainage improvements that cross jurisdictional ownership boundaries, without shifting legal or operational responsibility away from the District.



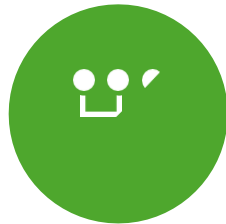
The MOU will allow the City to perform work such as clearing debris, widening or deepening canals, repairing infrastructure, and mowing vegetation in District-owned drainage facilities.



Non-exclusive license is granted to the City to work within the District's drainage system (the "Permitted Area").



The City is not obligated to perform specific maintenance—any actions are voluntary and based on the City's discretion.



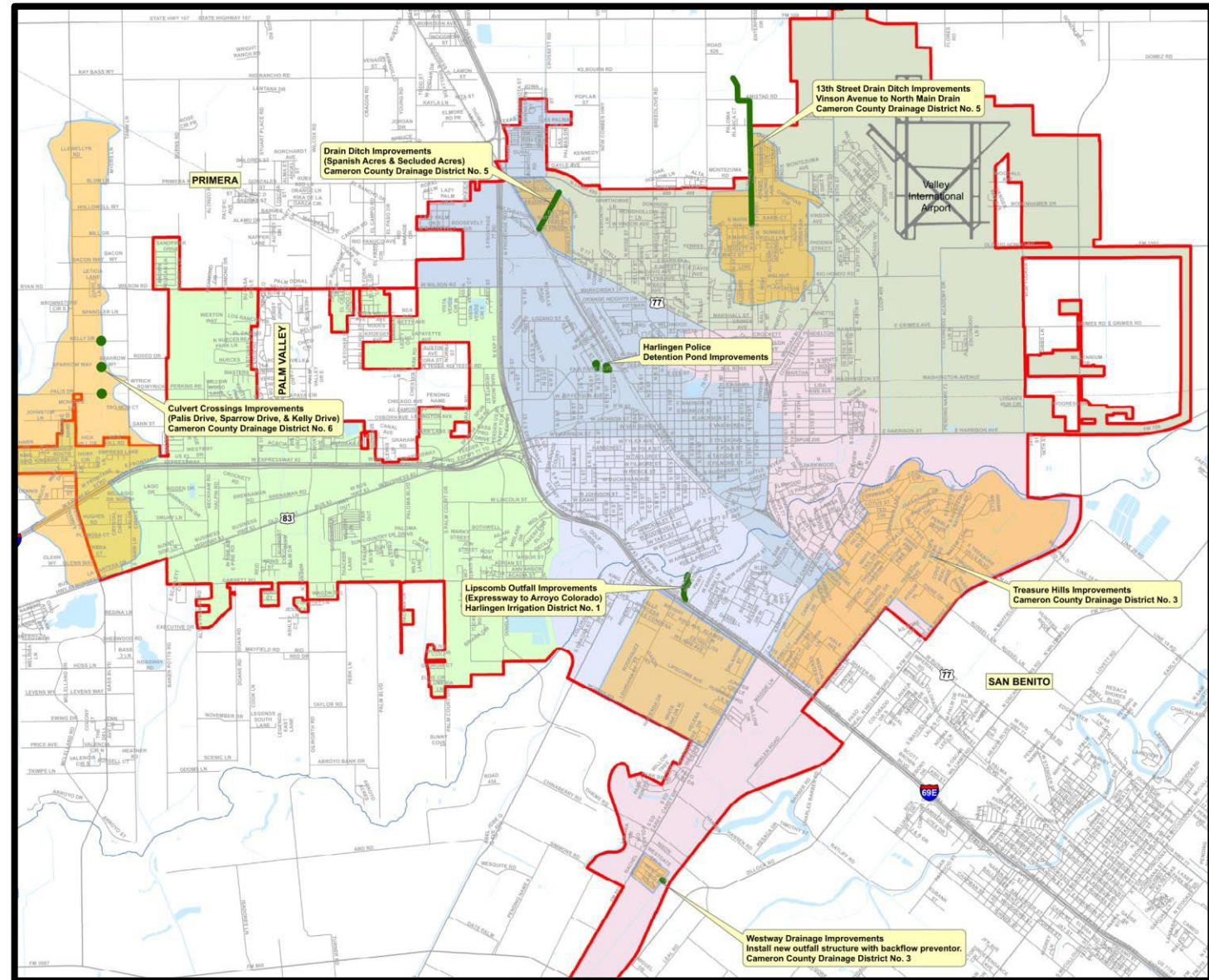
The District retains full responsibility for operation, compliance, and primary maintenance of its infrastructure.



The Agreement has a five-year term, with either party able to terminate it with 90 days' notice.

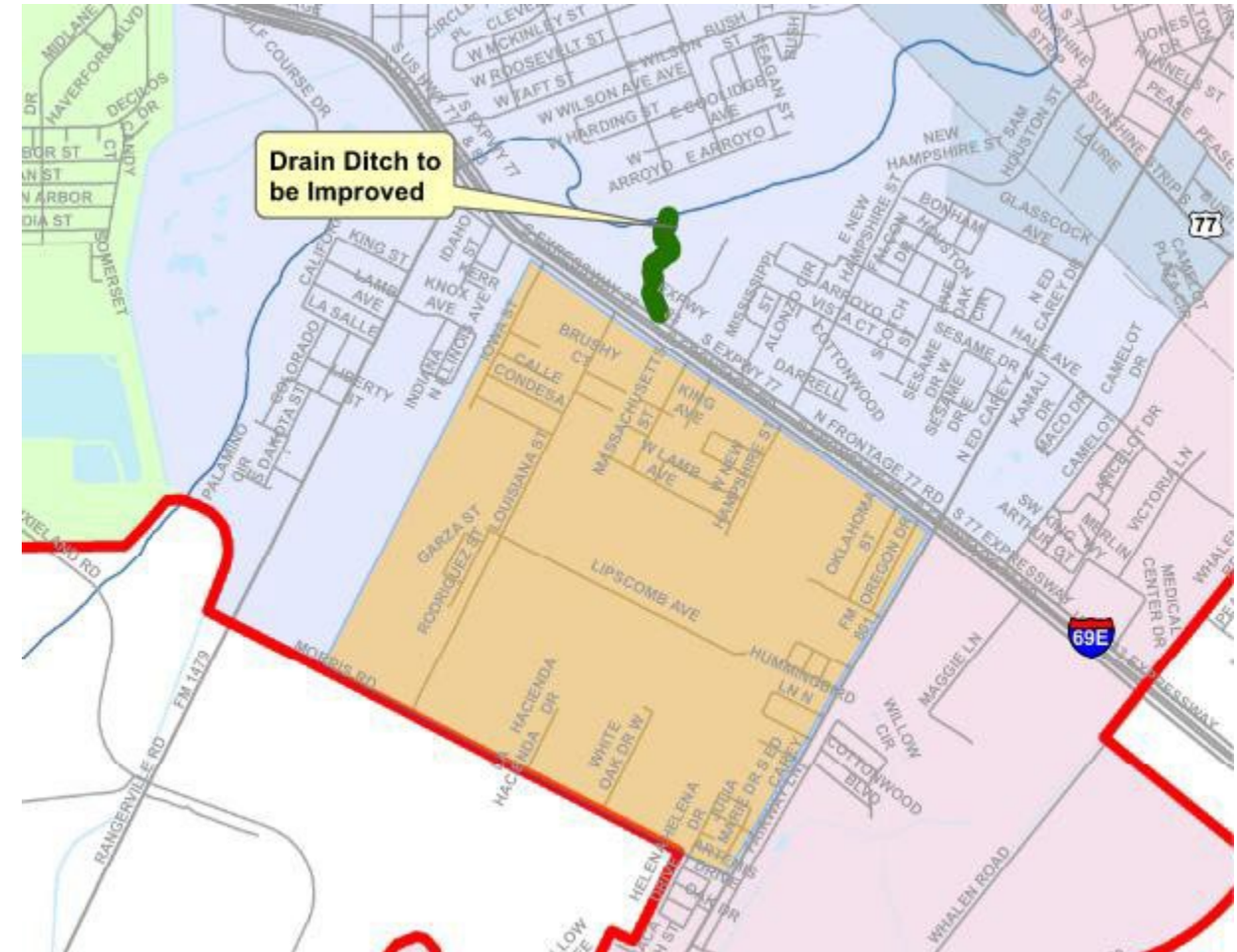
FY 25-26 In-house Drainage projects

- Lipscomb Ditch Outfall Improvements – **Completed**
- Westway Outfall Drainage Improvements – **Completed**
- Spanish-Secluded Acres Drainage Improvements – **Completed**
- North Bass Hick Hill Improvements – **20% complete**
- 13th street Ditch Drainage Improvements - **60% Planning**
- Harlingen Police Detention Pond Improvements – **90% Planning**
- Treasure Hills Drainage Improvements – **Planning Stage**

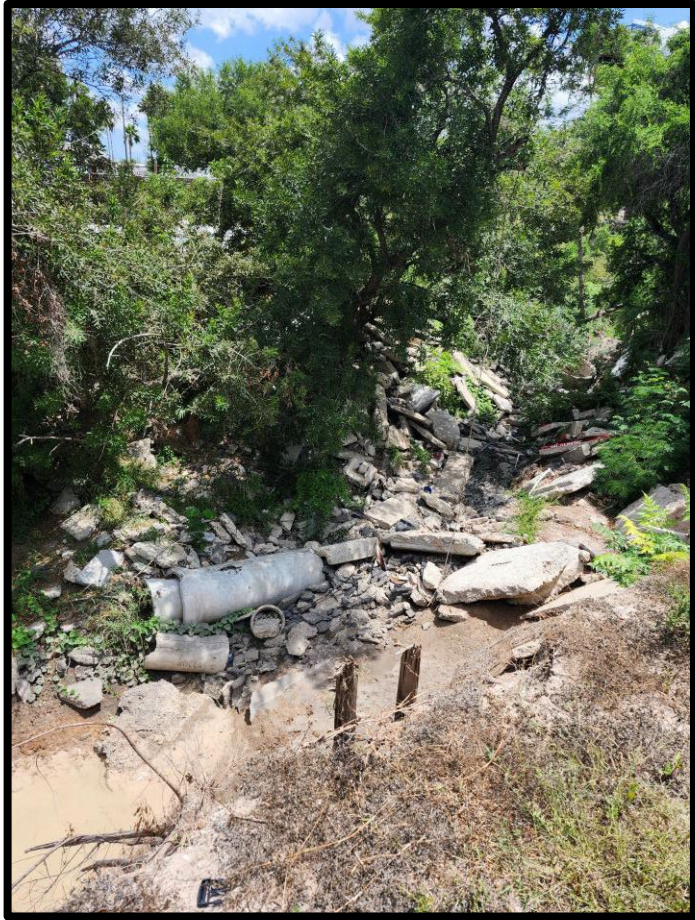


Lipscomb Drain Outfall Improvements - HID#1

- The project involved clearing, regrading, and enhancing the outfall to improve stormwater flow and reduce flood risk. The work was carried out in-house by city drainage crews in coordination with local drainage partners, providing early mitigation benefits for the surrounding area.
- Project cost savings—\$250,000
- Duration August 2025—November 2025

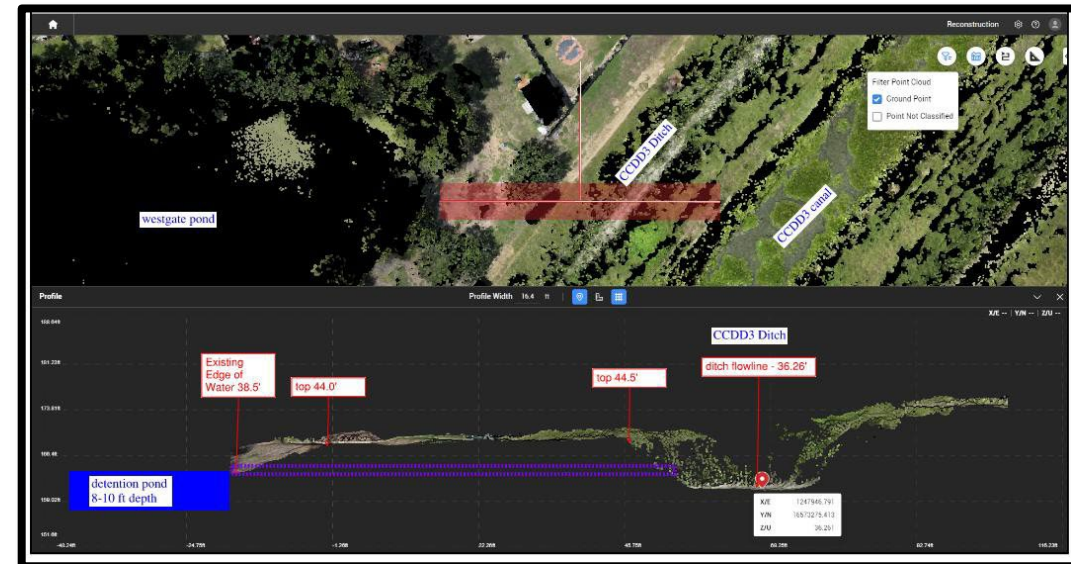


Lipscomb Drain Ditch Outfall Improvements



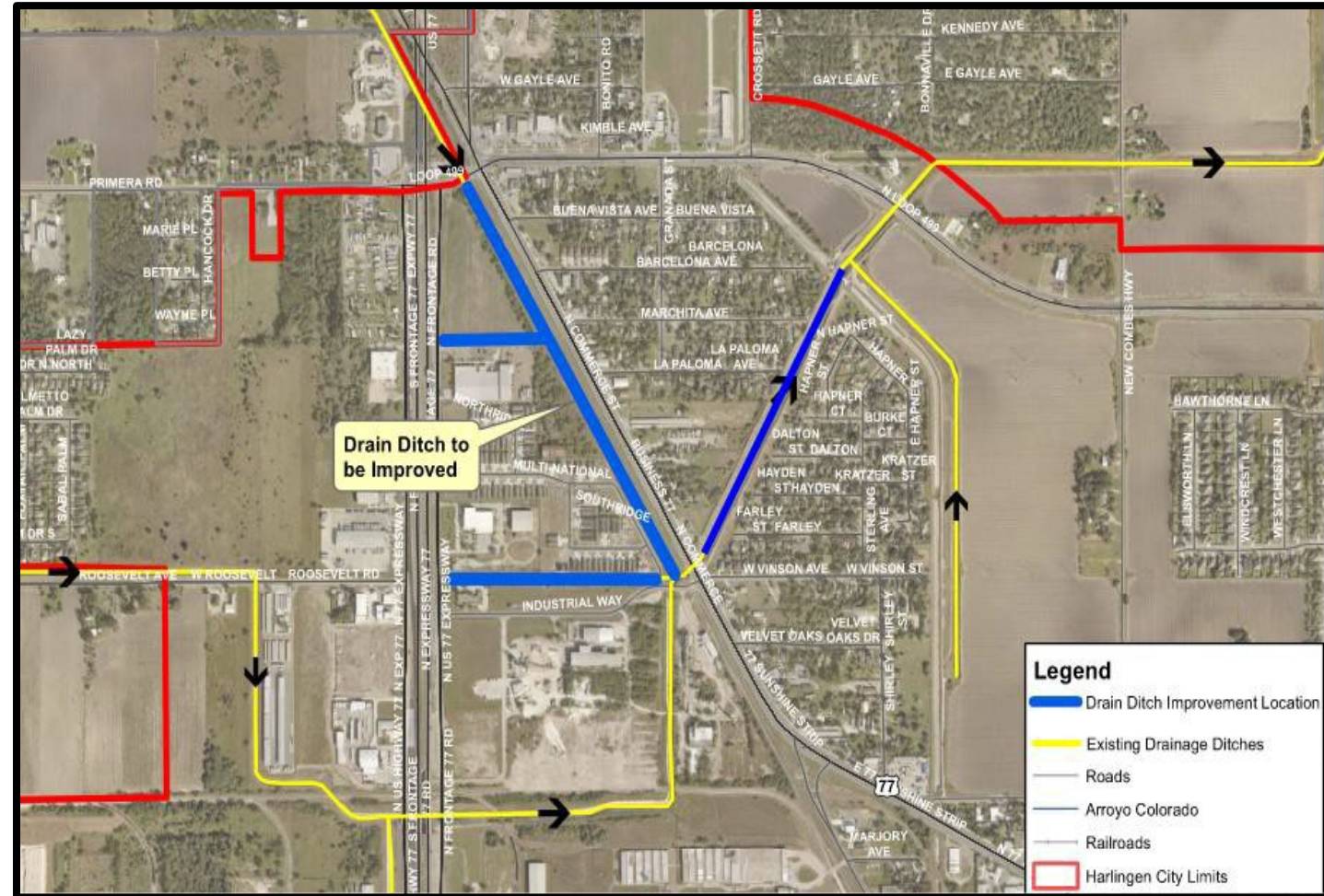
Westway Drainage Improvements - CCDD3/CCID2

- Removed two 12" discharge lines and replaced with a 36" HDPE outfall with Backflow preventor
- Project cost savings – \$50,000
- Duration August 2025 – November 2025



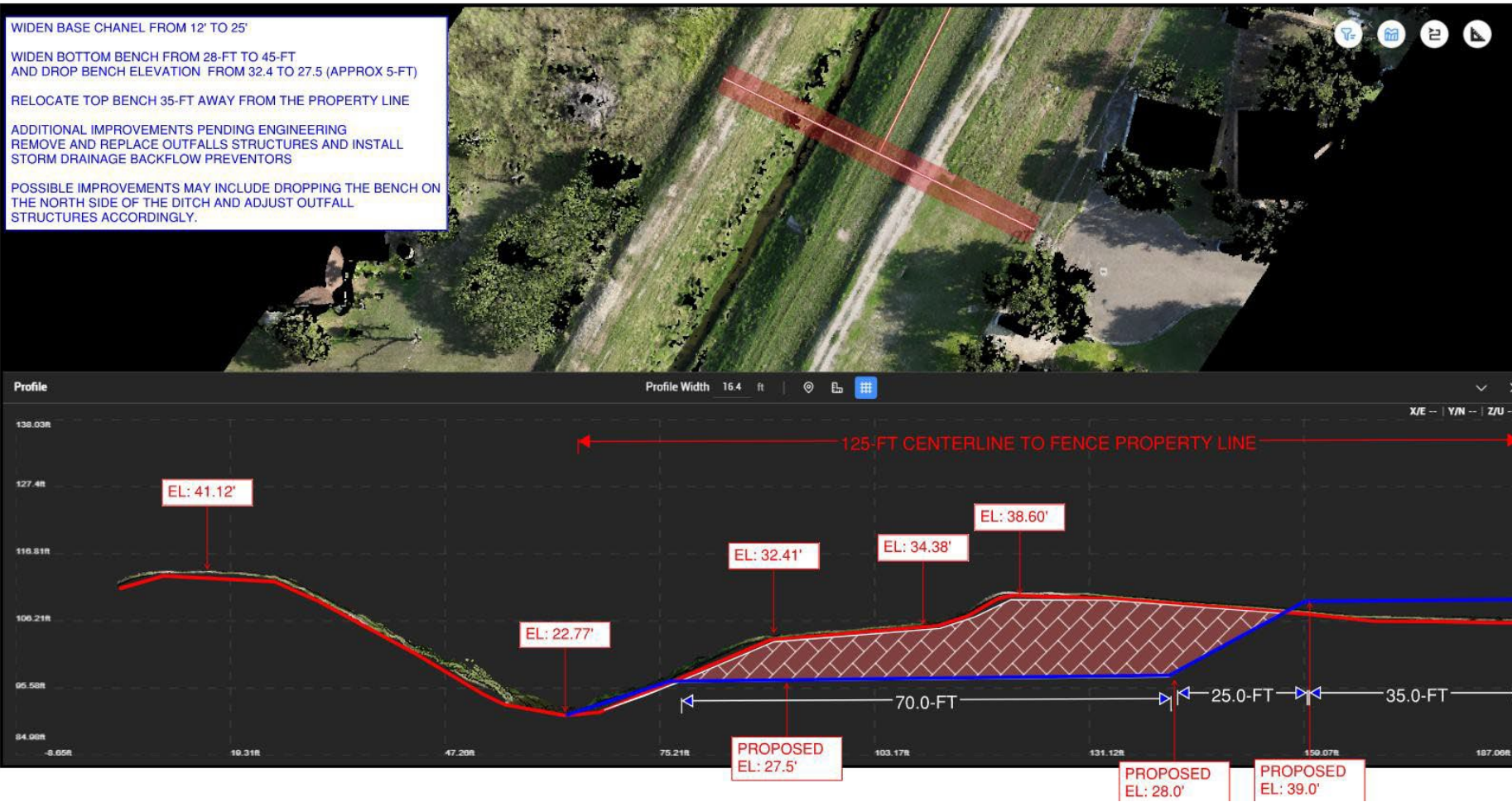
Skylines/Spanish and Secluded Acres (North Main Drain Improvements) - CCDD5

- The project involved widening existing ditches, installing storm sewer lines, upsizing pipes, and adding backflow prevention and detention measures to improve stormwater conveyance and reduce neighborhood flooding. The project also strengthened coordination with local drainage districts.
- Project cost savings: \$750,000
- Duration: August 25' - April 26'



Spanish and Secluded Acres (North Main Drain Improvements) - CCDD5

PROPOSE CONDITIONS PROFILE VIEW

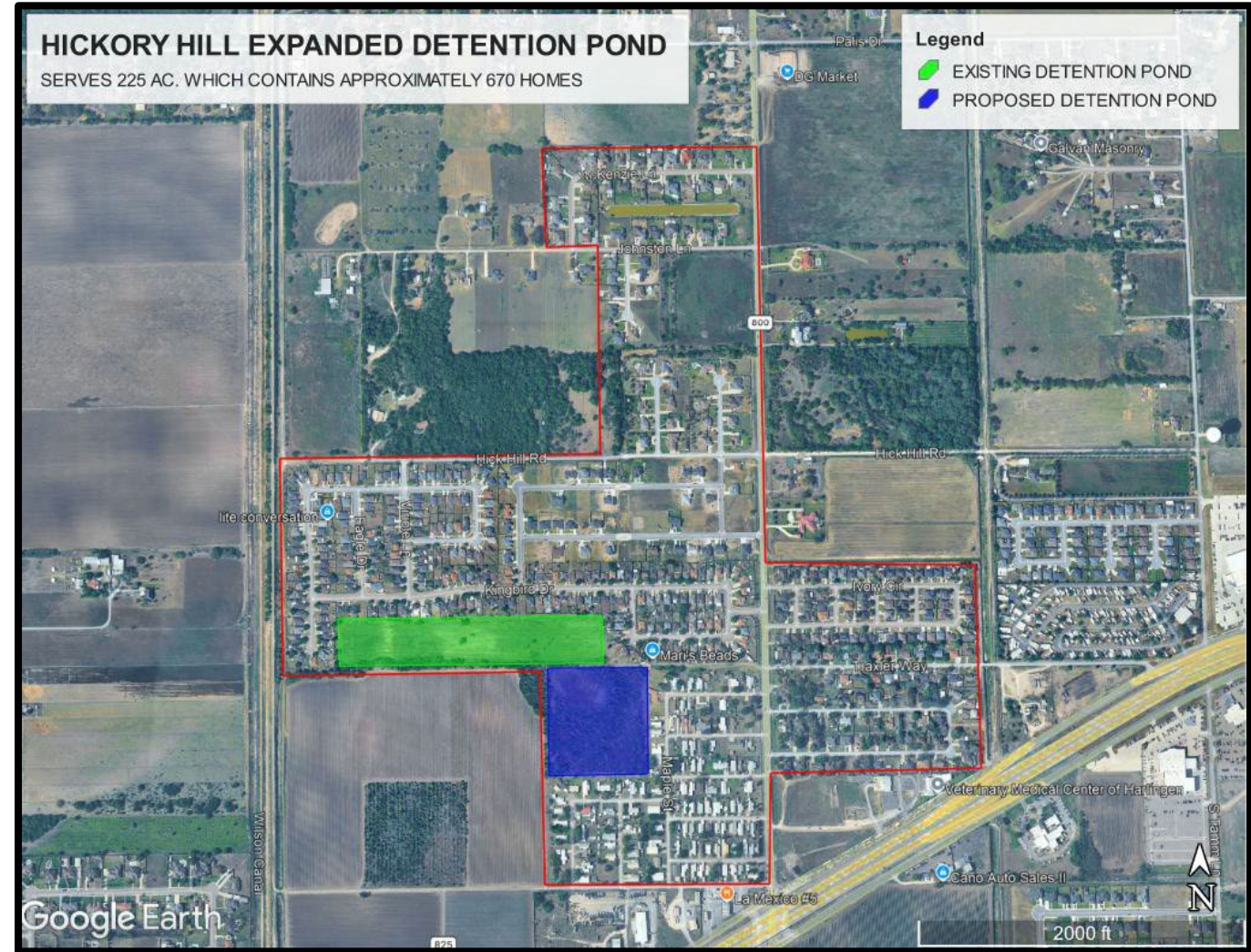


***Skyline/Spanish and
Secluded Acres (North
Main Drain
Improvements) -
CCDD5***



North Bass- Hickory Hill Improvements- CCDD6

- The project involves a new 9 -acre detention pond facility and improving the existing 11 acres. 3 crossings will be improved from existing one 36" crossing to triple 48" pipes
- Projected project cost savings: \$1.1 Million
- Duration: March - August 2026



North Bass- Hickory Hill Improvements- CCDD6

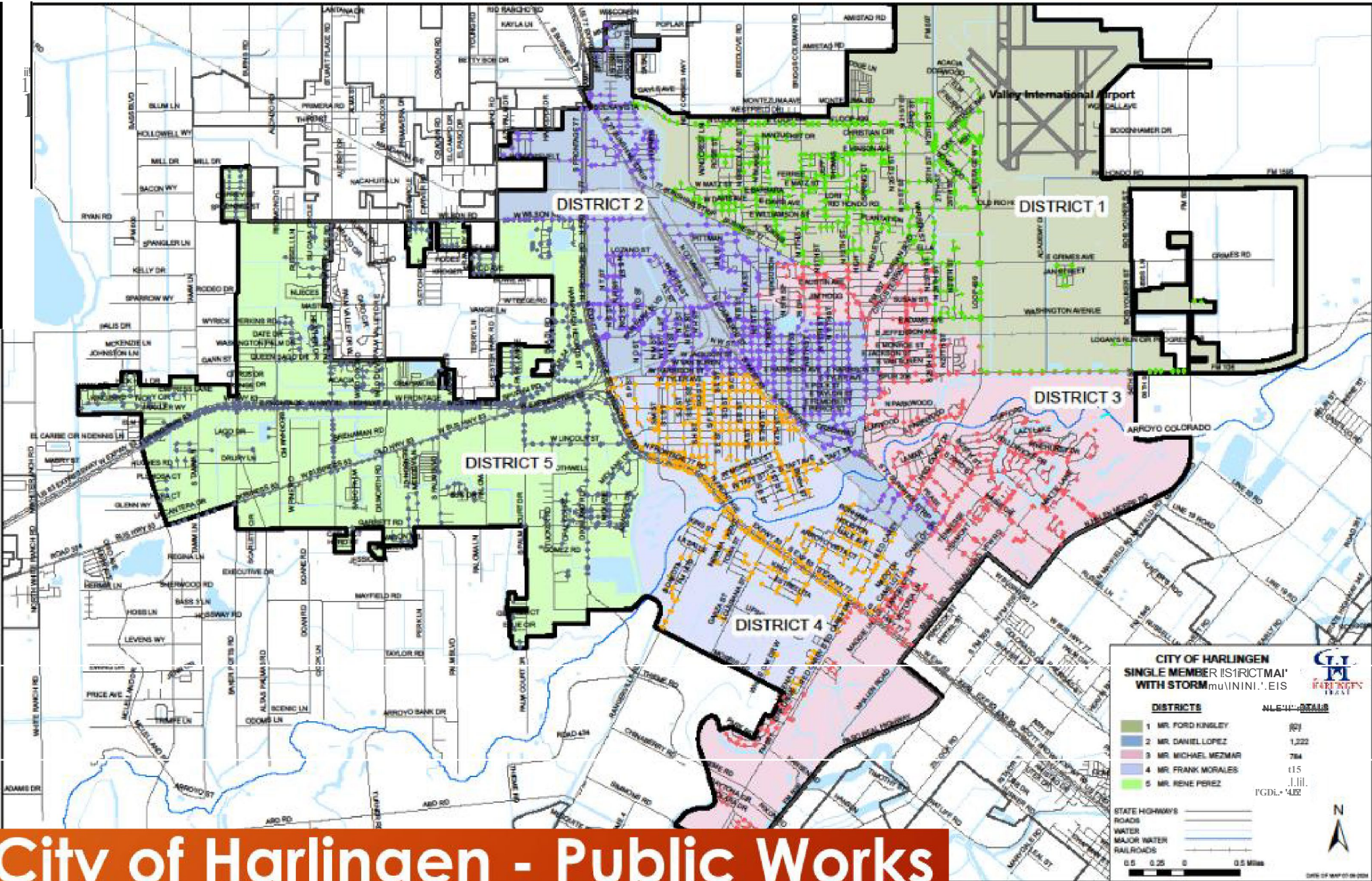


Lozano Detention Pond - completed

- 14-acre detention pond
- Capable to detain more than 20 million gallons of water, almost the volume of 30 Olympic swimming pools
- Estimated cost for the complete 14 acres is \$1 million (in-house)



Total number of inlets, city wide - 4,961



CITY OF HARLINGEN
SINGLE MEMBER DISTRICTS
WITH STORMWATER INLETS

DISTRICTS

DISTRICT	MEMBER	INLETS
1	MR. FORD KINGSLEY	809
2	MR. DANIEL LOPEZ	1,222
3	MR. MICHAEL MEZMAR	784
4	MR. FRANK MORALES	115
5	MR. RENE PEREZ	1,111
		TOTAL
		4,961

PGDL 4/11/11

STATE HIGHWAYS
ROADS
WATER
MAJOR WATER
RAILROADS

0.5 0.25 0 0.5 Miles

DATE OF MAP 07/26/2011

City of Harlingen - Public Works