



AERIAL PHOTO





**STATEMENT OF COMPLETION - ENGINEERING**



**Public Works Department**

**To:** Xavier Cerventes Planning Director  
 Project/Subdivision Turtle Cove Subdivision  
 Project/Subdivision Contractor SR Construction  
 Project/Subdivision Engineer Trimad Consultants LLC  
**From:** Juan Pablo "JP" Terrazas, P.E., CPM Assistant City Manager  
**Date:** 05/09/2025

**STATEMENT OF COMPLETION**

The infrastructure installed has been, inspected and accepted by the City of Mission (Public Works) Utility, Streets & Drainage Department. As-builts are due for review.

**Streets:**

Turtle Cove has been inspected by  Joaquin Gonzalez and or  Antonio Serna. The infrastructure installed by SR Construction and the methods for testing and approval have complied with the City Subdivision Standards Manual revised September 2023.

Inspector (s) Joaquin Gonzalez

**Strom Drain:**

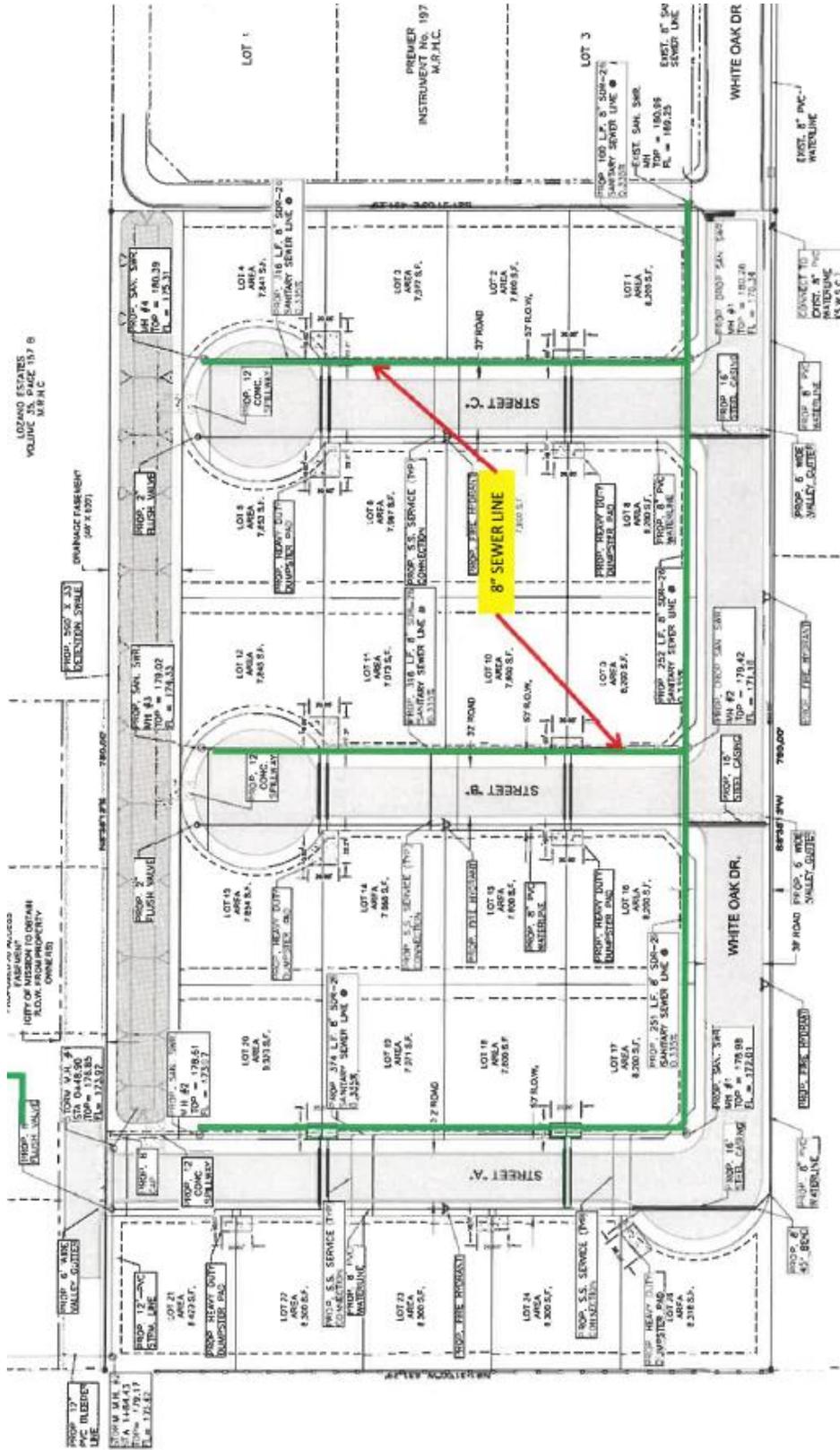
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Inspector (s) Joaquin Gonzalez

**Juan Pablo "JP" Terrazas, P.E., CPM**  
Assistant City Manager



# SANITARY SEWER LAYOUT



# STORM WATER DRAINAGE STATEMENT



## DRAINAGE REPORT FOR TURTLE COVE SUBDIVISION

### PROJECT LOCATION

Turtle Cove Subdivision, being 7.426 acres out of Lot 33-1 West Addition to Sharyland Subdivision City of Mission, Texas, according to the map or plat thereof recorded in Volume 1, Page 56 of the Map Records of Hidalgo County, Texas. The project location is located inside the city limits of City of Mission.

### FLOOD PLAIN

The subdivision lies within Flood Zone "C" (Areas of minimal flooding). Community Panel Number: 4803340400 C; Map Revised: November 16, 1982. The property is located approximately 900 feet from the intersection of Inspiration Road and W Mile 3 Road Mission, Texas. The property is currently open with a proposed use of twenty-five (25) multi-family lots and one (1) detention pond.

### SOIL CONDITIONS

According to the Soil Survey Report prepared for Hidalgo County by the U.S.D.A. Soil Conservation Service, the project site is 6.7% (4) Brennan fine sandy loam, 0 to 3 percent slopes, and 93.3% (25) Hidalgo fine sandy loam, 0 to 1 percent slopes.

Brennan fine sandy loam has the capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.57 to 1.98 in/hr.) and depth to water table: More than 80 inches. The frequency of flooding is none and frequency of ponding is none, with a Hydrologic Soil Group Classification B.

Hidalgo fine sandy loam has the capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.57 to 1.98 in/hr.) and depth to water table: More than 80 inches. The frequency of flooding is none and frequency of ponding is none, with a Hydrologic Soil Group Classification B. The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. (See attached Soil Survey)

### PRE-DEVELOPED CONDITIONS

Existing total property is a 7.426 acres tract. Currently this tract is undeveloped. Existing drainage pattern for this tract of land sends storm waters from the high point located on the North-West corner of the property to the Southwest corner of said property. The existing runoff from the lots during a 10-year rainfall event is 8.46 cfs per the attached calculations.

### POST-DEVELOPED CONDITIONS

The proposed Turtle Cove Subdivision consists of a total 25 multifamily lots that vary from 7,800 to 9,000 sf. Total acreage for Turtle Cove Subdivision is 7.426 acres. Post-developed flow will be conveyed through valley gutters following the existing drainage pattern into a swale that detains approximately 46,462 cf. The proposed drainage for this subdivision will consist of the water flowing into a detention swale through the cul-de-sac 12-foot curb cuts and a 12-inch PVC bleeder line that leads to a proposed drainage manhole that discharges into an existing grate inlet located (around 200 LF) west of the Southwest corner of the property. The existing grate inlet outfalls into an existing curb inlet on the East side of Inspiration Rd. (See attached Overall Drainage Map). An additional 15-foot drainage easement will be needed along Anita Gonzalez's property. Per Hidalgo County Regulations, the proposed runoff from the lots after development during a 50-year rainfall event is 44.21 cfs per the attached calculations.

<input type="checkbox"/> REJECTED	
<input checked="" type="checkbox"/> APPROVED FOR SUBMITTAL	
<input type="checkbox"/> TO H.C. PLANNING DEPT.	
<input checked="" type="checkbox"/> TO CITY	
<input checked="" type="checkbox"/> DISCHARGE PERMIT REQUIRED	
<input type="checkbox"/> DISTRICT FACILITY	
<input checked="" type="checkbox"/> CITY FACILITY	
<input type="checkbox"/> OTHER _____	
<u>Alexis Lozano</u>	<u>8/18/23</u>
H.C.D.D. NO. 1	DATE

