



AERIAL PHOTO



## STATEMENT OF COMPLETION – PUBLIC WORKS



# Public Works Department

**To:** Xavier Cervantes                      Planning Director  
Project/Subdivision                      Holland Terrace Subdivision  
Project/Subdivision Contractor                      S&S Paving  
Project/Subdivision Engineer                      Spoor Engineering Consultants

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

**Date:** April 24, 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.

#### Water:

Holland Terrace Subdivision has been inspected by ☐ Carlos Fuentes and or ☒ Guadalupe Vela. The infrastructure installed by S&S Paving and the methods for testing and approval have complied with the City Subdivision Standards Manual revised March 1998.

#### Sewer:

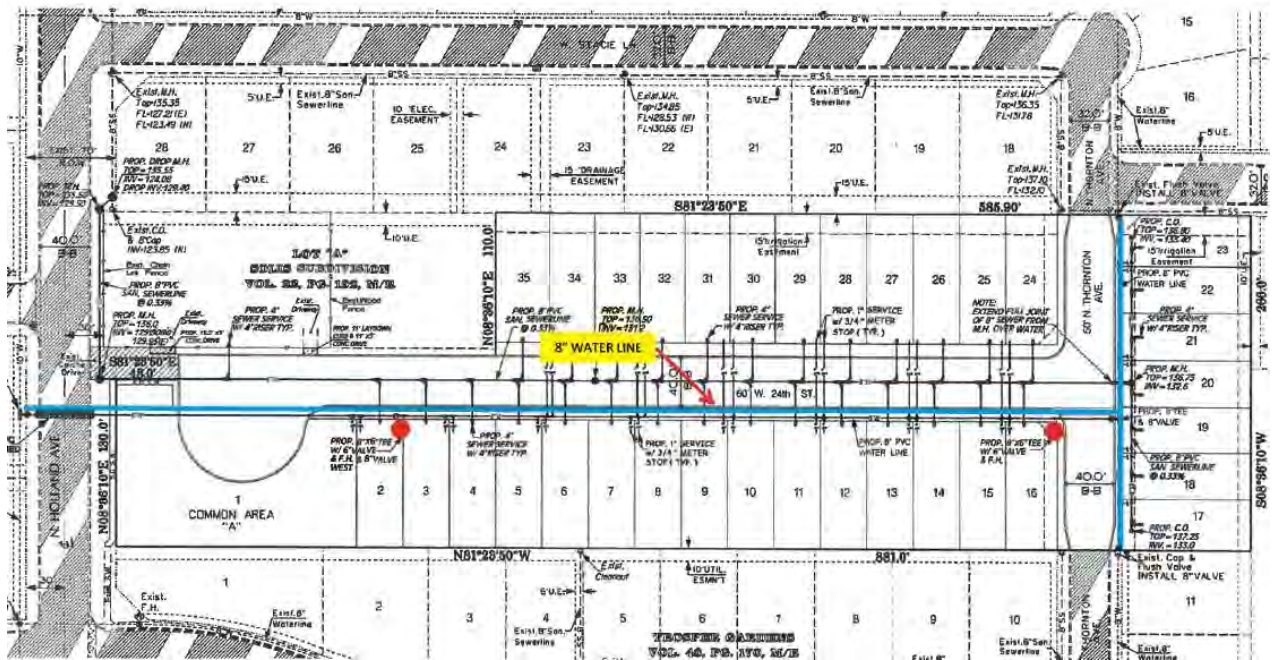
Holland Terrace Subdivision has been inspected by ☐ Carlos Fuentes and or ☒ Guadalupe Vela. The infrastructure installed by S&S Paving and the methods for testing and approval have complied with the City Subdivision Standards Manual revised March 1998.

Inspector (s) 

  
Juan Pablo "JP" Terrazas, P.E., CPM



# WATER DISTRIBUTION





## STORM WATER DRAINAGE STATEMENT



*Spoor Engineering Consultants, Inc.*

Consulting Engineers - Civil Land Planning  
202 S. 4th Street McAllen, Texas  
956-683-1000  
SEC@spooreng.com

Drainage Report

Holland Terrace

Mission, TX

### LEGAL DESCRIPTION:

BEING A SUBDIVISION OF A 4.50 ACRE TRACT OF LAND OUT OF LOT 25-5, WEST ADDITION TO SHARYLAND, HIDALGO COUNTY, TEXAS, ACCORDING TO PLAT RECORDED IN VOLUME 1, PAGE 56, MAPS RECORDS, HIDALGO COUNTY, TEXAS

### LOCATION:

This proposed 35 lot subdivision, comprising 4.38 net acres, is located on the east side of Holland Avenue, approximately 600 feet north of Griffin Parkway. This site is located in the City Limits of the City of Mission.

### FLOOD ZONE:

This property falls in Zone "X" (shaded) of the Flood Insurance Rate Maps, Community Panel 480345-0005C, revised November 20, 1991. Zone "X" (shaded) is described as, "Area of moderate flood hazard, usually the area between the limits of the 100-year and 500-year floods."

### SOILS AND TOPOGRAPHY:

Topographic maps of the general area indicate a natural ground slope to the east. This site falls in Area 28 (Hidalgo Sandy Clay Loam, Group B) of the Soil Survey of Hidalgo County. A more detailed description of this soil and its properties can be found in attachments to this narrative.

### USAGE:

Presently, this site is occupied by an old single-family residence on the Holland Avenue frontage and the back is a vacant field (see weighted C calculation). Proposed for this development are 34 single family residential townhome lots and 1 lot for detention area. The existing single family home is proposed to be demolished.


### EXISTING AND PROPOSED DRAINAGE:

This site is located on a slight ridge that slopes east and west from the middle of the property. The easterly portion is intercepted by the Mission Lateral drain ditch, located ¼ mile north of Griffin Parkway. The westerly portion slopes to Holland Avenue and is intercepted by the 42 inch City of Mission drain on Holland. This 42 inch drain flows north, discharging into the City detention area to the north of Chaparral Heights Subdivision.

A new 24 inch drain is proposed to convey the street and residential lot runoff into the proposed detention area on Lot 1. An 18 inch drain is proposed from the detention area to connect to an existing City of Mission 24 inch drainline on W. 24<sup>th</sup> Place which drains to the 42 inch drain located on the West side of Holland, with the ultimate outfall being the City of Mission detention area north of Chaparral Heights.

### REQUIREMENTS:

Rainfall detention will be accomplished on site in the proposed detention area. In accordance with the attached drainage calculations, this property is required to detain 0.54 acre-feet, or 23,560 cubic feet. Data from Table 2 indicates an existing flowrate of 6.54 C.F.S. (10 year), which will increase to 20.26 C.F.S. (50 year) for developed conditions ( $\Delta Q=13.72$  C.F.S.). Finished floor elevations will be set above the 100 year flood level.

<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	
Alexis Lopez	10/24/23
H.C.D.D. NO. 1	DATE

202<sup>nd</sup> Street, McAllen, Texas 78501 \* (956)683-1000

E-mail: SEC@SpoorEng.com

*Spoor*  
10-24-23



SPoor ENGINEERING CONSULTANTS, INC  
Registration # F-6003