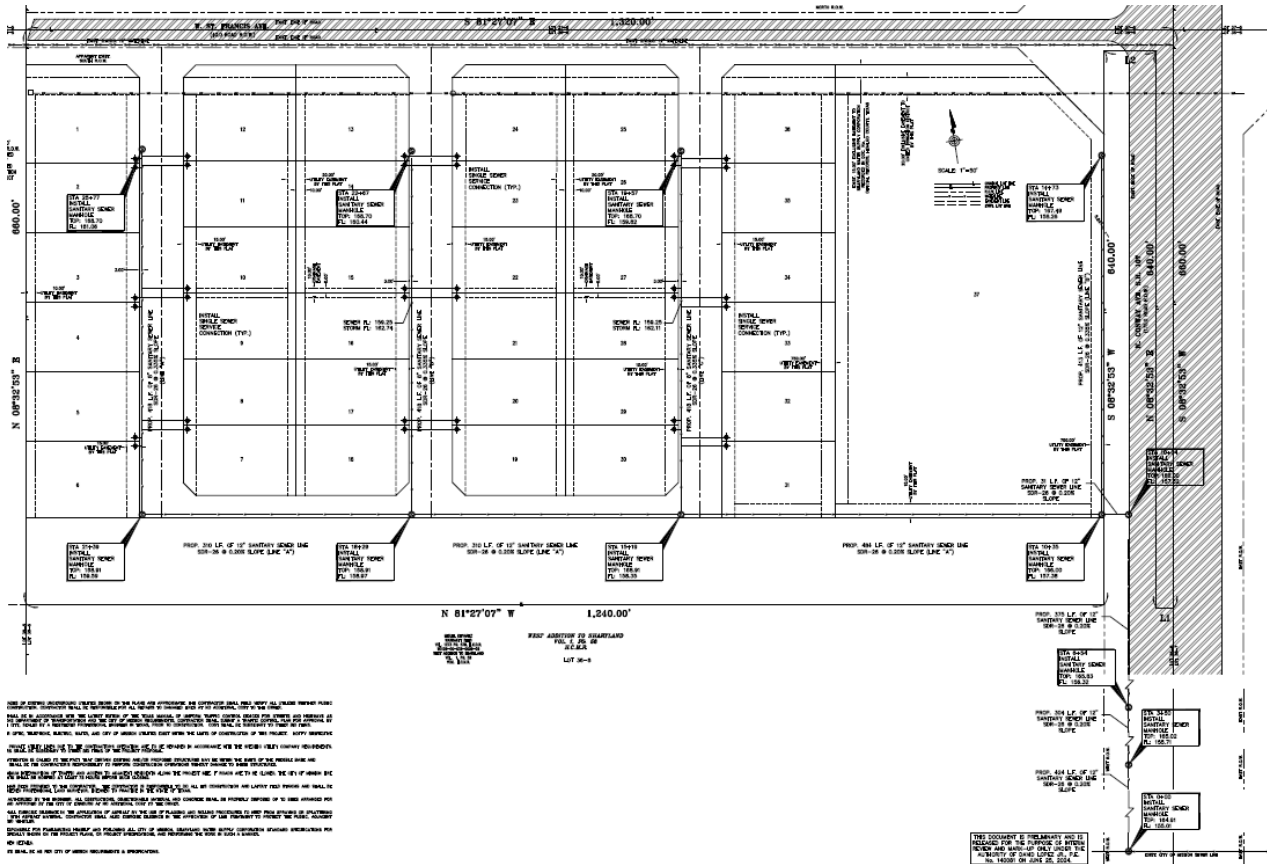


AERIAL



WATER LAYOUT



DRAINAGE REPORT

DRAINAGE REPORT FOR CONWAY VILLAGE SUBDIVISION CITY OF MISSION

PROJECT LOCATION

The proposed Conway Village Subdivision is a 19.118-acre tract of land out of Lot 36-6, West Addition to Sharyland Subdivision, as per map recorded in Volume 1, Page 56 Map Records of Hidalgo County, Texas. It is physically located at the Southwest corner of West Saint Francis Avenue and North Conway Avenue (SH 107) in the Mission, Texas.

FLOOD PLAIN

This tract of land is located within Zone "C" according to FIRM Flood Insurance Rate Map Community Panel 480334 0400 C, dated November 16, 1982. Zone "C" are areas of minimal flooding (No Shading).

SOIL CONDITIONS


According to the soil survey report for Hidalgo County by the U.S.D.A. Soil Conservation Service, there is (3) Brennan fine sandy loam, (25) Hidalgo fine sandy loam, and (28) Hidalgo Sandy Clay. The (3) Brennan fine sandy loam, (25) Hidalgo fine sandy loam, and (28) Hidalgo Sandy Clay Loam soils are within Hydrological Group B. Soil (28) are made up of Fine Sandy Loam (SC-SM), Sandy Clay Loam (SC) and Clay Loam (CL). These soils have a moderate infiltration rate when thoroughly wet. These consist chiefly of moderately deep or deep, moderately well drained or well drained soils that have moderately fine texture or fine texture. These soils have a slow rate of transmission. Plasticity Index has a range of 1-8 for the Fine Sandy Soil and 11-22 for the Sandy Clay Loam. Natural slopes are of 0 to 1 percent.

EXISTING CONDITIONS

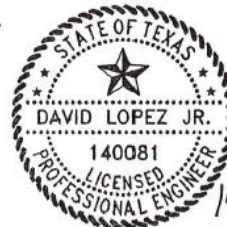
Existing on the proposed site is open grassland with brush. The site has a very slight slope from west to southeast. The existing R.O.W. North Conway Avenue (SH 107) has an existing ditch that flows south towards 3 Mile Road. The existing runoff for the proposed subdivision is $Q=10.74 \text{ ft}^3/\text{sec}$ based on a 10-year storm. However, due to TxDOT bleeder line requirements a proposed 8" PVC Bleeder Line will bleed the proposed flowrate, $Q=1.24 \text{ ft}^3/\text{sec}$.

PROPOSED CONDITIONS

The entire subdivision being 19.118 acres with Lot 1-36 being 14.10 acres being multi-family and Lot 37 being 5.02 acres being commercial. After development, the runoff will increase to $Q=70.67 \text{ ft}^3/\text{sec}$ as calculation show, the detention required will be $159,060 \text{ ft}^3$ or 3.65 Ac-Ft. These calculations were based on a 50-year storm event for Hidalgo County. However, the City of Mission requires a 100-year storm event for their ultimate required detention will be $294,404 \text{ ft}^3$ or 6.76 Ac-Ft. The ultimate detention required for Lot 1-36 is $217,108 \text{ ft}^3$ and Lot 37 is $77,296 \text{ ft}^3$ with onsite detention channel that will discharge into the TxDOT R.O.W. on North Conway Avenue (SH 107). This ditch will be owned by H.C.D.D. #1. Cross sections and earthwork quantities of the proposed construction of the ditch channel widening are attached.

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

11-20-24



STATEMENT OF COMPLETION



Public Works Department

To: Xavier Cervantes Planning Director
Project/Subdivision Conway Village
Project/Subdivision Contractor Total Commitment
Project/Subdivision Engineer Lopez Engineering Designs
From: Juan Pablo "JP" Terrazas, P.E., CPM Assistant City Manager
Date: November 26, 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:

Conway Village has been inspected by ☐ Guadalupe Vela and or ☒ Carlos Fuentes. The infrastructure installed by Total Commitment and the methods for testing and approval have complied with the City Subdivision Standards Manual revised March 1998

Sewer:

Conway Village has been inspected by ☐ Guadalupe Vela and or ☒ Charlie Fuentes. The infrastructure installed by Total Commitment 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