

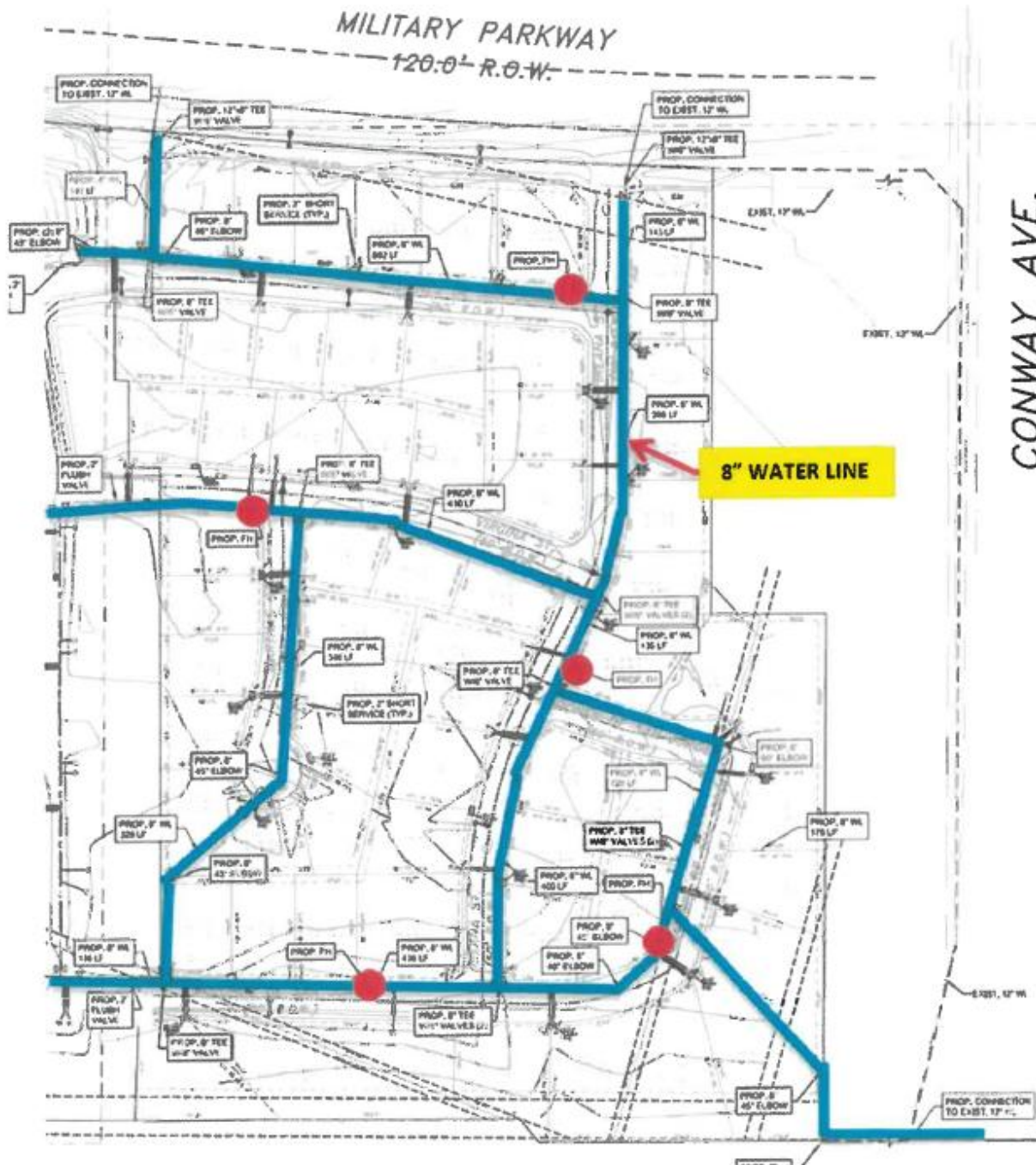


# AERIAL PHOTO

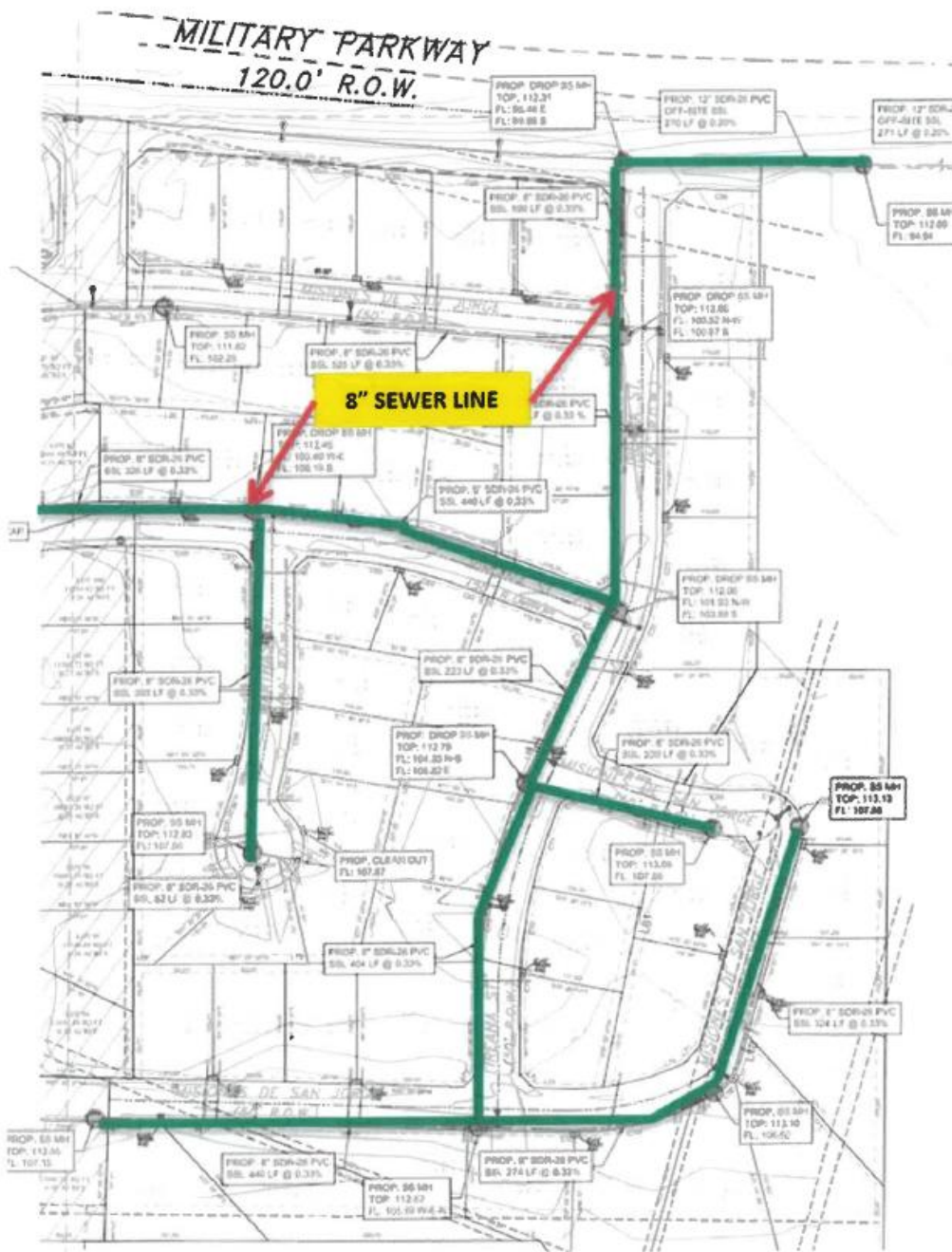




CONWAY AVE.



## SANITARY SEWER LAYOUT



[illegible]



## STORM WATER DRAINAGE & STATEMENT

### **DRAINAGE REPORT FOR Las Misiones De San Jorge Phase I Subdivision Mission, Texas**

Being 23.48-acre tract of land, more or less, out of and forming a part of lot 9-6, west addition to Sharyland Hidalgo County, Texas, as per the map or plat thereof recorded in volume 01, page 56, map records of Hidalgo County, Texas.  
6,8,18,5,34

Las Misiones De San Jorge will consist of 2 phases. Phase 1 will construct 65 multifamily lots subdivision (23.48 acres), Phase 2 will consist of 60 multifamily lots (25.26 acres) The property is located on northwest corner of Washington Ave and Bob Youker St. inside City Limits of Mission, Texas.

The tract lies in "Zone A". Zone A is defined as an areas of 100-yr flood; base flood elevations and flood hazard factors not determined. A FEMA process will be signed off by the city of mission since this property lies in the City limits of Mission. The proposed BFE to be submitted to the City of Mission is to be 113.00 feet NGVD 29.

The soil according to the soil survey of hidalgo county indicates that this property lies in "Area 55" (Reynosa Silty Clay loam, 0 to 1 Percent Slopes, Hydrologic Group "B") and "Area 64" (Runn silty Clay, surface runoff "medium" and Hydrologic group "C") of the soil survey of Hidalgo County.

Existing drainage for the area consists of the following system: presently, the project was approved by City of Mission and HCDD1 but then the owner changed engineers at the construction portion of the project. The portion that is going to be subdivided will be Phase I which is around 23.48 acres. In which once the subdivision is recorded, they can get the funds to finish the second portion of the subdivisions which the remaining 25.26 acres of the whole 48.72 acres. Phase I currently has streets and curbs built already and these improvements flow into the existing detention pond located on the northwest portion of the tract. Existing runoff is  $Q_{10} = 29.64$  cubic feet per second based on a 10-year frequency storm.



*[Handwritten signature]*  
1-31-75

There are 65 multifamily lots proposed in this subdivision Phase I (in 23.48 acres). There are 60 multifamily lots proposed in phase 2 (in 25.26 acres) for a total of 125 multifamily lots to be constructed in the master plan of Las Misiones de San Jorge (48.72 acres total). The drainage detention is only an estimate determined by the project engineer; an actual detention may vary based on an actual use of the lots. After development, the runoff will be increased  $Q_{diff} = 74.94$  cubic feet per second and  $Q_{50} = 104.58$  cubic feet per second. In accordance with our calculations and following the City of Mission drainage policy and the Hidalgo County Drainage District No. 1 a total of 390,191 cubic-feet or 8.96 ac-ft will be needed for completion of Phase I and Phase II. Phase I will have to detain 188,047 cubic-feet or 4.32 ac-ft. Phase 2 will have to detain 4.64 cubic-feet or 202,303 acre-ft. In Phase 1 the entire portion of the detention will be built, meaning that phase 2 will not need to build an extra detention pond unless the proposed of multifamily lots gets modified into a different zoning. Phase 1 will build and detain the whole amount of the mention detention for this master plan. The detention pond will be located on the northwest portion of the tract of land via an easement along Military Rd. The outfall will go into a drain inlet owned by txdot. The connection to txdot will have to be a 8" PVC as per txdot specification which then outfalls into the mission inlet owned by HCDD1. The finish floor for each building will be set above the 100-year frequency storm event.

Sincerely,


*M. A. Salinas*

Mario A. Salinas, P.E.

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1-31-25

<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 2-9-24	