



LEGEND

- SEWER SUB-BASIN
- UN-SEWERED SUB-BASIN
- SEPARATE SEWER DISTRICT
- EXISTING GRAVITY SEWER
- ▲ EXISTING LIFT STATION
- △ EXISTING LIFT STATION (INTERNAL TO SUB-BASIN)
- - F.M. → EXISTING FORCE MAIN
- PROPOSED GRAVITY SEWER
- ▲ PROPOSED LIFT STATION
- - F.M. → PROPOSED FORCE MAIN
- /// PROPOSED ABANDONMENT
- AA → MODEL FLOW VECTOR

Airport/ S.R. 46: Margaret Ave. & Airport (48)

AIRPORT & S.R. 46 AREA SCHEMATIC – PROPOSED SYSTEM IMPROVEMENTS



Margaret Avenue Sewer and Lift Station

- This project would include the recommended sanitary sewer and pumping facilities needed to serve commercial, corporate, and industrial development within Sub-basins 48 and 49 located south and southeast of the airport.
- Due to an existing drainage swale which forms the headwaters of Little Honey Creek, two separate sections of gravity sewer along Margaret Avenue are recommended. The drainage swale crosses Margaret Avenue approximately 2400' east of State Road 46. The swale is expected to mark the downstream end of the first section of gravity sewer.
- Ultimately, the gravity sewer along Margaret Avenue could extend as far eastward as S. Frye Street and possibly north along Frye, depending upon the amount of corporate development which occurs in the area. The upstream end of this gravity sewer would also receive future industrial wastewater flows pumped from Sub-basin 49 southeast of the airport. A new lift station will be required at the downstream end of the proposed Margaret Avenue Sewer, near the drainage swale discussed above. On the west side of the drainage swale, a second section of 18" gravity sewer is recommended to serve areas along Margaret Avenue immediately east of State Road 46. The new lift station will allow the abandonment of the 46th and Margaret Lift Station located at the intersection of Margaret and Anton.

Description	Unit	Estimated Quantity	Unit Cost	Estimated Capital Cost
<i>Sewer and Lift Station</i>				
8" Dia. Gravity Sewer	L.F.	100	\$70	\$7,000
18" Dia. Gravity Sewer	L.F.	5,000	\$180	\$900,000
Standard Manhole	EA.	20	\$5,000	\$100,000
Granular Backfill	L.F.	1,100	\$45	\$49,500
Paved Surface Restoration	L.F.	300	\$50	\$15,000
Grading and Seeding	L.F.	4,800	\$5	\$24,000
New 46th and Lift Station	L.S.	1	\$350,000	\$350,000
Eliminate 46th and Lift Sta.	L.S.	1	\$10,000	\$10,000
Dewatering	L.S.	1	\$116,440	\$116,440
Erosion Control	L.S.	1	\$23,288	\$23,288
Estimated Construction Cost:				\$1,595,228
15% Construction Contingency:				\$239,284
Land Acquisition		3.5	\$4,000	\$14,400
Est. Non-Construction Costs @ 25%:				\$398,807
Estimated Total Project Cost:				\$2,247,719