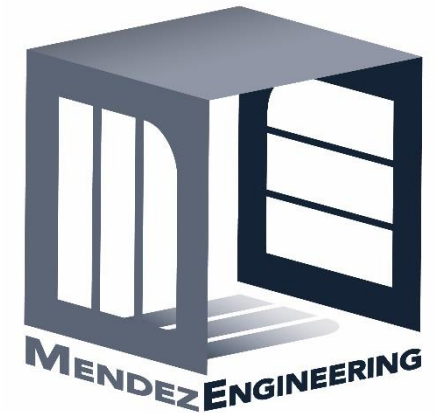


# AIRPORT RD. AT W. GOODWIN ST.

## FLOOD STUDY AND DRAINAGE IMPROVEMENTS

JOHN METTING, PE - CITY ENGINEER  
JOSE SOSA, PE – MENDEZ ENGINEERING

OCT. 2023

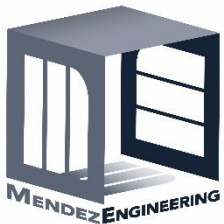
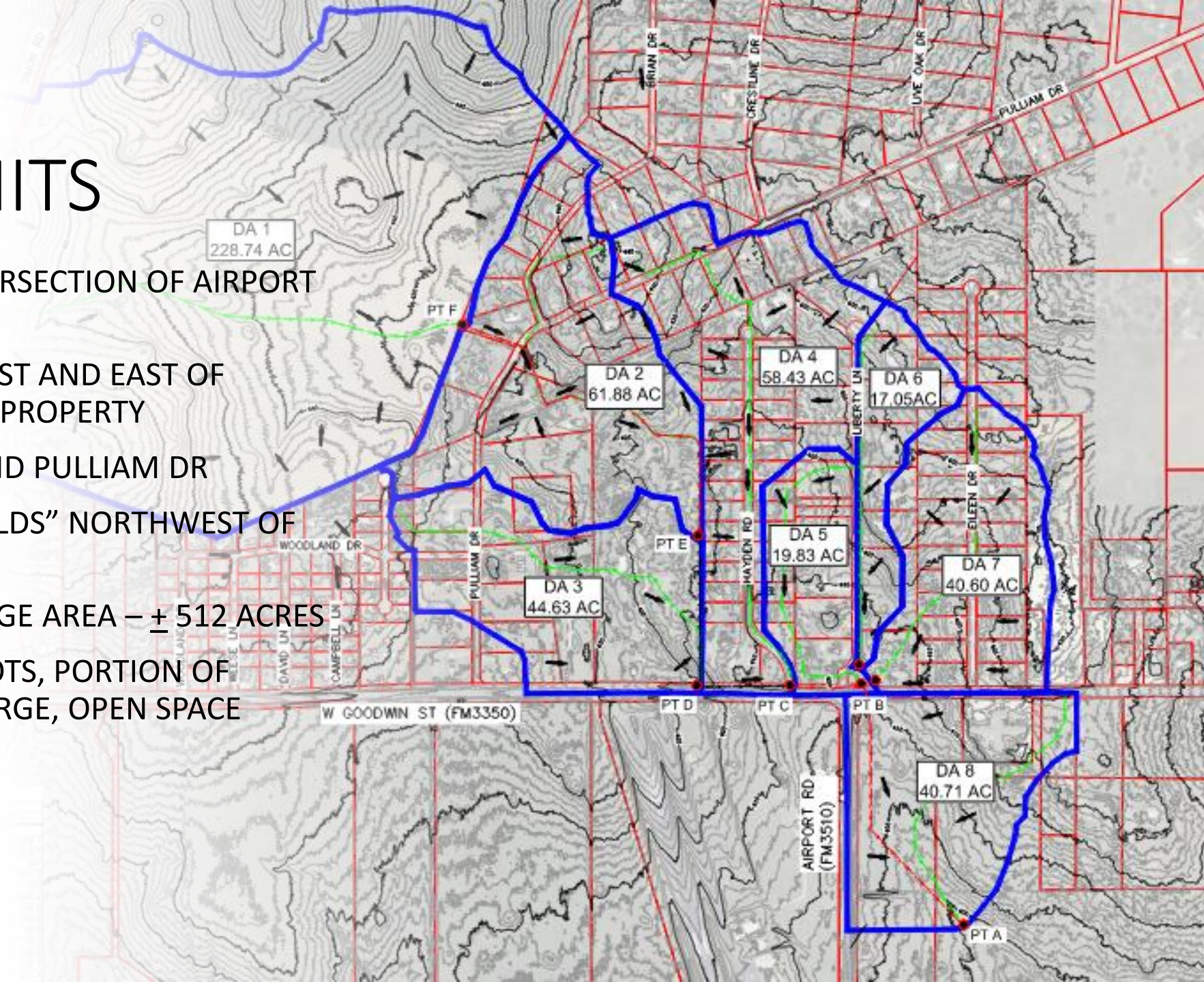






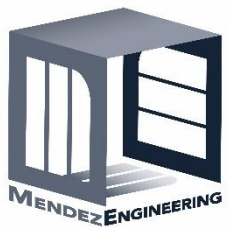
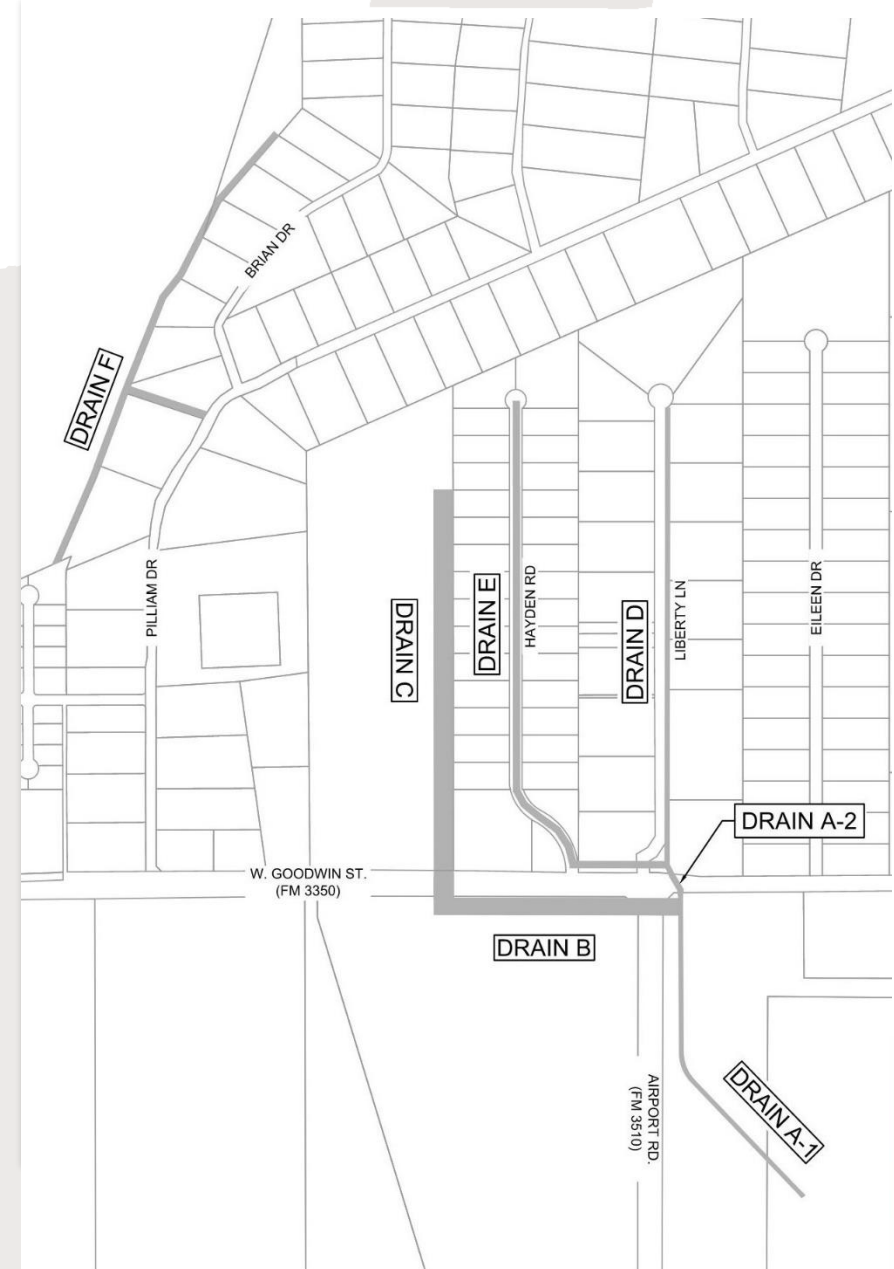
# PROJECT LIMITS

- CULVERT CROSSING NEAR INTERSECTION OF AIRPORT RD AND W GOODWIN ST.
- AREA SOUTH OF W GOODWIN ST AND EAST OF AIRPORT RD, WITHIN AIRPORT PROPERTY
- AREAS BETWEEN EILEEN DR AND PULLIAM DR
- AREA KNOWN AS "PEANUT FIELDS" NORTHWEST OF PULLIAM DR
- TOTAL CONTRIBUTING DRAINAGE AREA –  $\pm 512$  ACRES
- MAINLY LARGE RESIDENTIAL LOTS, PORTION OF AGRICULTURAL LANDS AND LARGE, OPEN SPACE TRACTS





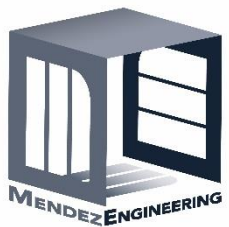
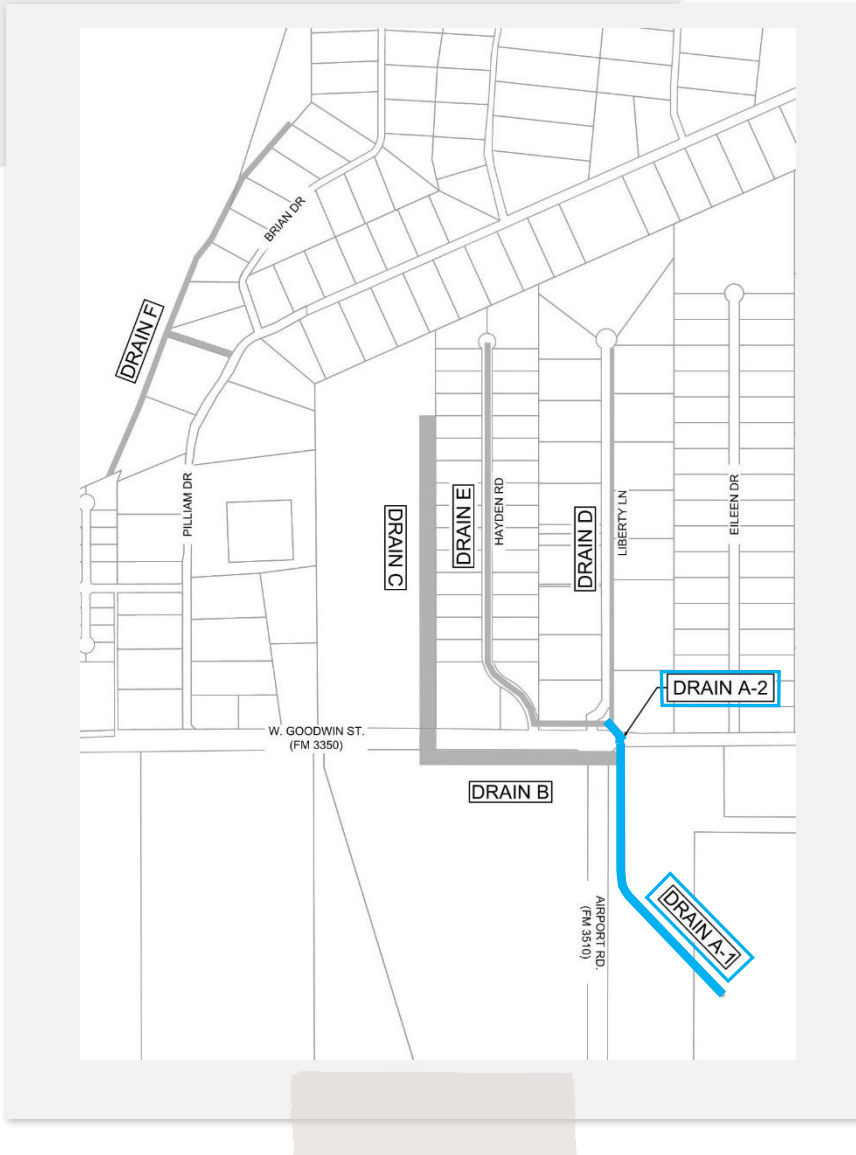
# PROJECT LOCATIONS





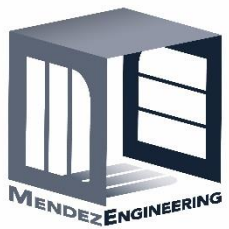
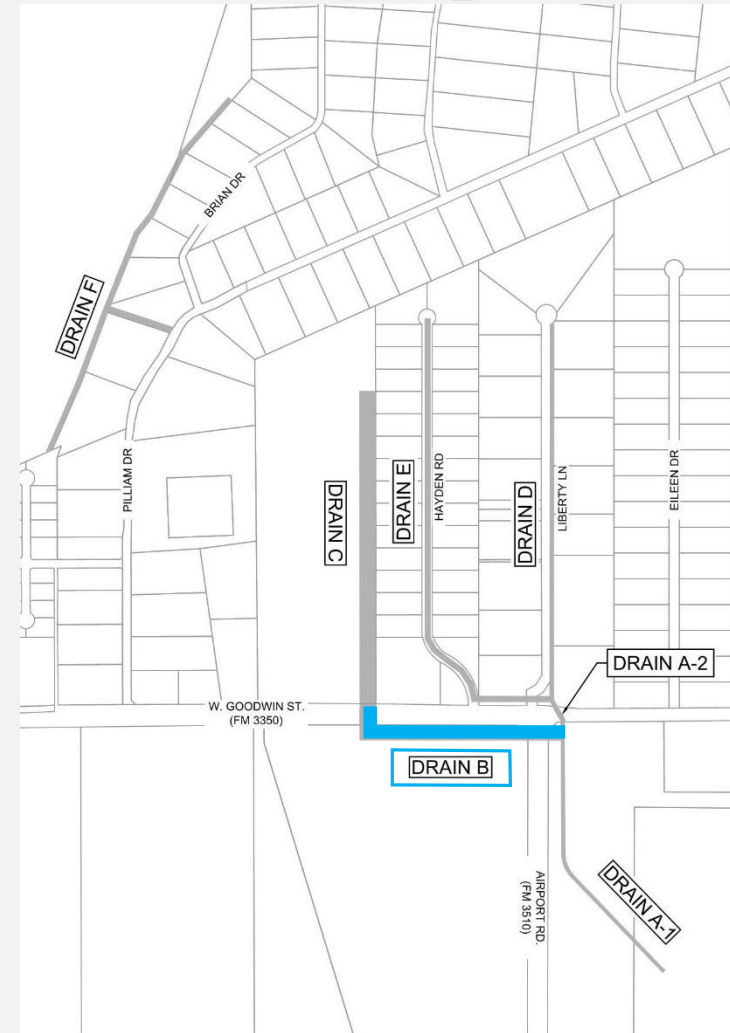
# DRAIN A-1 AND A-2

- WITHIN CUDE (PRIVATE) PROPERTY, FROM COWBOY RIDGE TO W. GOODWIN ST.
  - $\pm$  1,600 LF OF CONCRETE PILOT CHANNEL
  - PROPOSED DRAINAGE EASEMENT
- CULVERTS CROSSING W. GOODWIN ST.
  - REPLACE EXISTING 3 – 33" DIA CMP PIPE WITH 3 – 7'x4' MBC
  - $\pm$  80 LF CULVERTS WITHIN TxDOT ROW



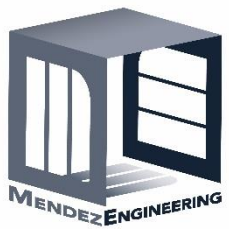
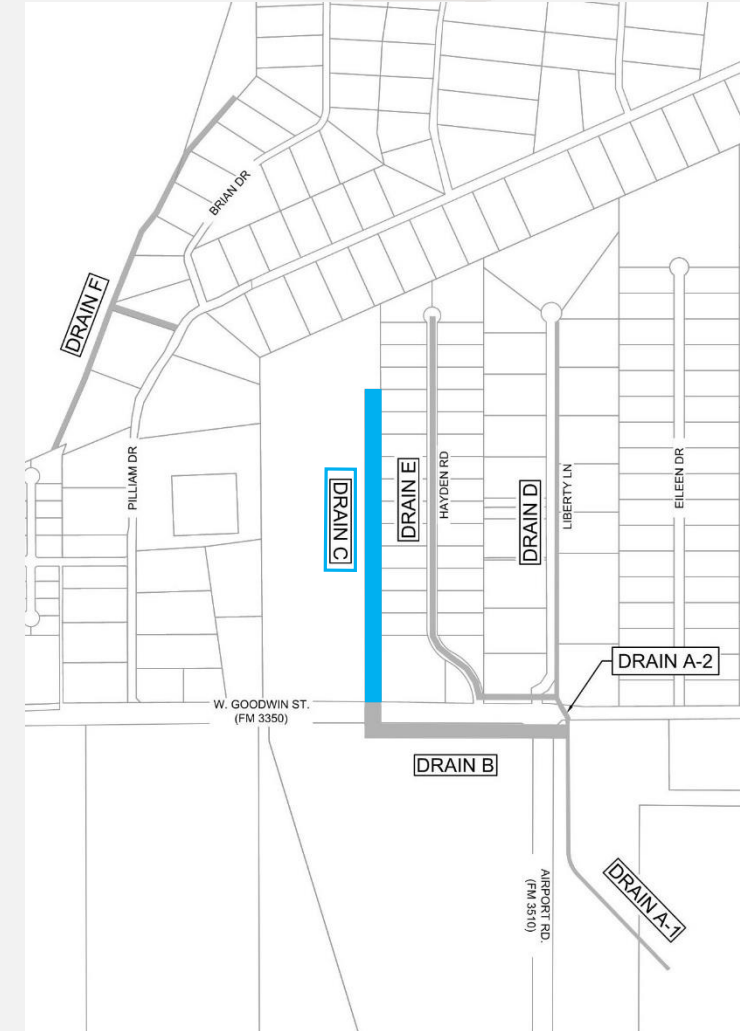
# DRAIN B

- SOUTHSIDE OF W. GOODWIN ST., WITHIN AIRPORT PROPERTY
  - $\pm$  140 LF OF 10 – 7'x4' MBC CROSSING AIRPORT RD (TxDOT ROW)
  - $\pm$  950 LF CONCRETE TRAPEZOIDAL CHANNEL
  - $\pm$  120 LF OF 4 – 7'x6' MBC CROSSING W. GOODWIN ST (TxDOT ROW)
  - PROPOSED DRAINAGE EASEMENT



# DRAIN C

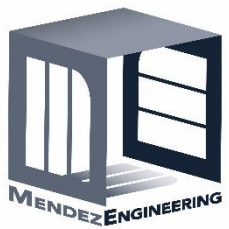
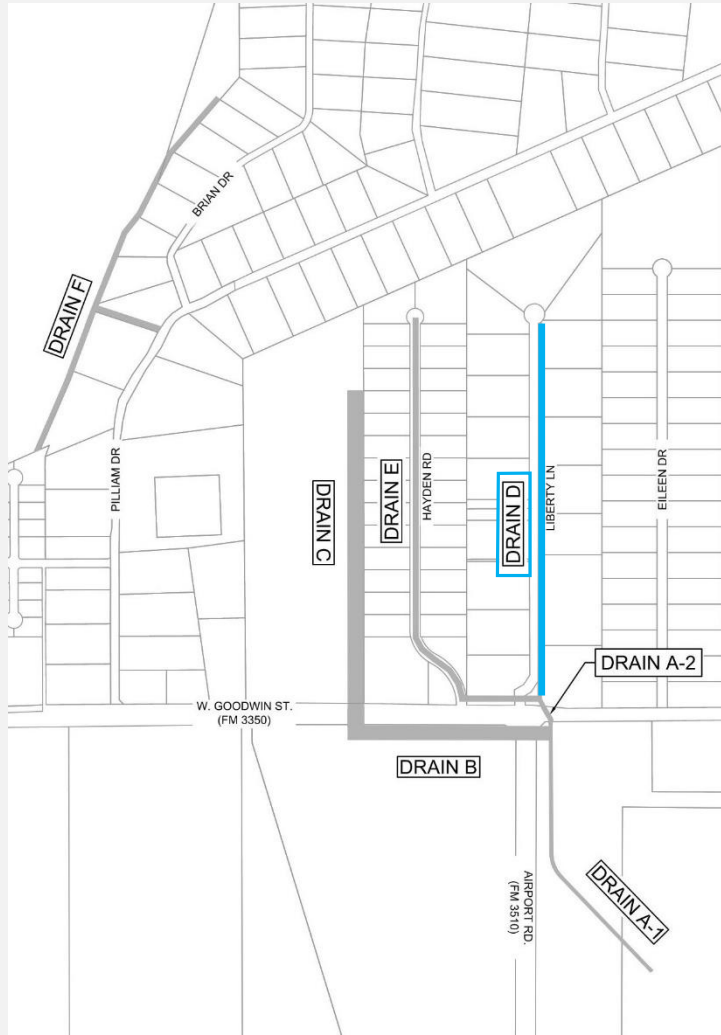
- WITHIN HOLLEY (PRIVATE) PROPERTY, EAST OF HAYDEN RD.
  - ± 1,800 LF CONCRETE TRAPEZOIDAL INTERCEPTOR CHANNEL
  - PROPOSED DRAINAGE EASEMENT





# DRAIN D

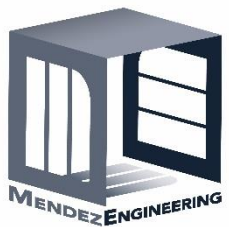
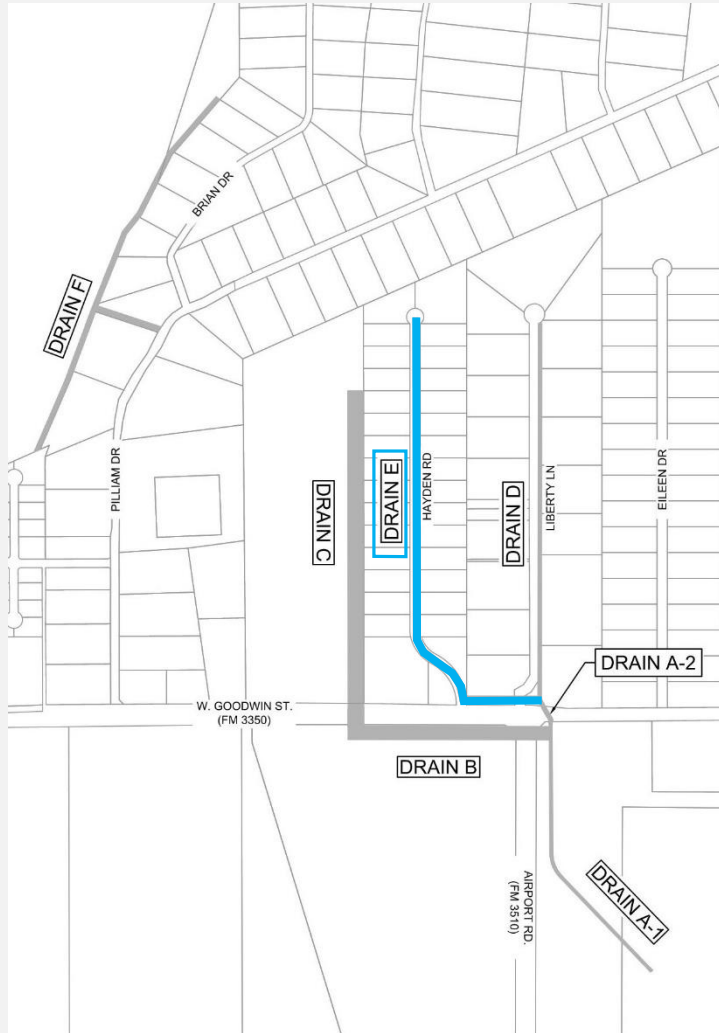
- LIBERTY LN
  - $\pm 2,180$  LF EARTHEN TRAPEZOIDAL SWALE ON EAST ROW
  - SWALE FOR CONVEYING STORM WATER TO CULVERT CROSSING AT W. GOODWIN ST.





# DRAIN E

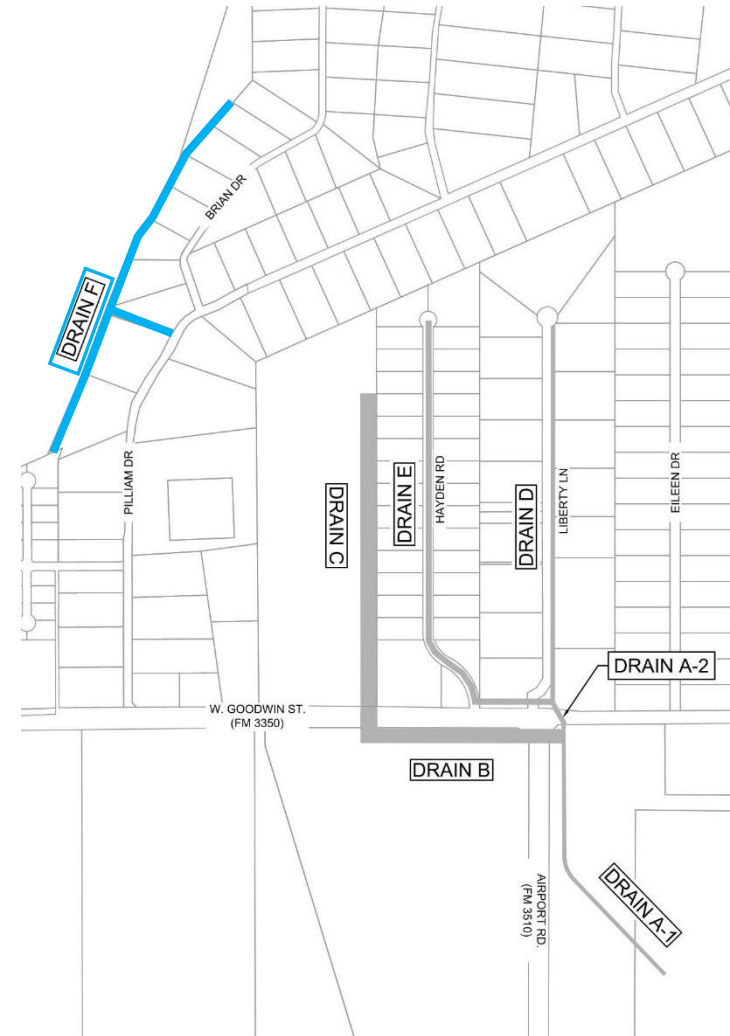
- HAYDEN RD
  - $\pm 40$  LF OF 4 – 5'x3' MBC CROSSING LIBERTY LN
  - $\pm 175$  LF EARTHEN TRAPEZOIDAL CHANNEL
  - $\pm 2,365$  LF OF UNDERGROUND COLLECTION SYSTEM: MULTIPLE MBC AND CURB INLETS
  - PROPOSED DRAINAGE EASEMENTS

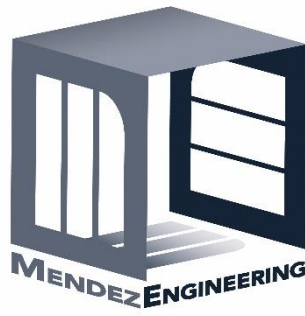




# DRAIN F

- NORTHWEST OF PULLIAM DR, WITHIN THE AGRICULTURAL LAND KNOW AS “PEANUT FIELDS”
  - INTERCEPTS STORM WATER FROM PEANUT FIELDS AND CONVEYS FLOWS PAST PULLIAM DR
  - $\pm$  2,330 LF CONCRETE “U” INTERCEPTOR CHANNEL ON EAST SIDE OF LIBERTY LN
  - $\pm$  500 LF CONCRETE “U” CONVEYANCE CHANNEL TO PULLIAM DR CULVERTS
  - $\pm$  50 LF OF 8 – 4’x4’ CROSSING PULLIAM DR





THANK YOU...

QUESTIONS?

