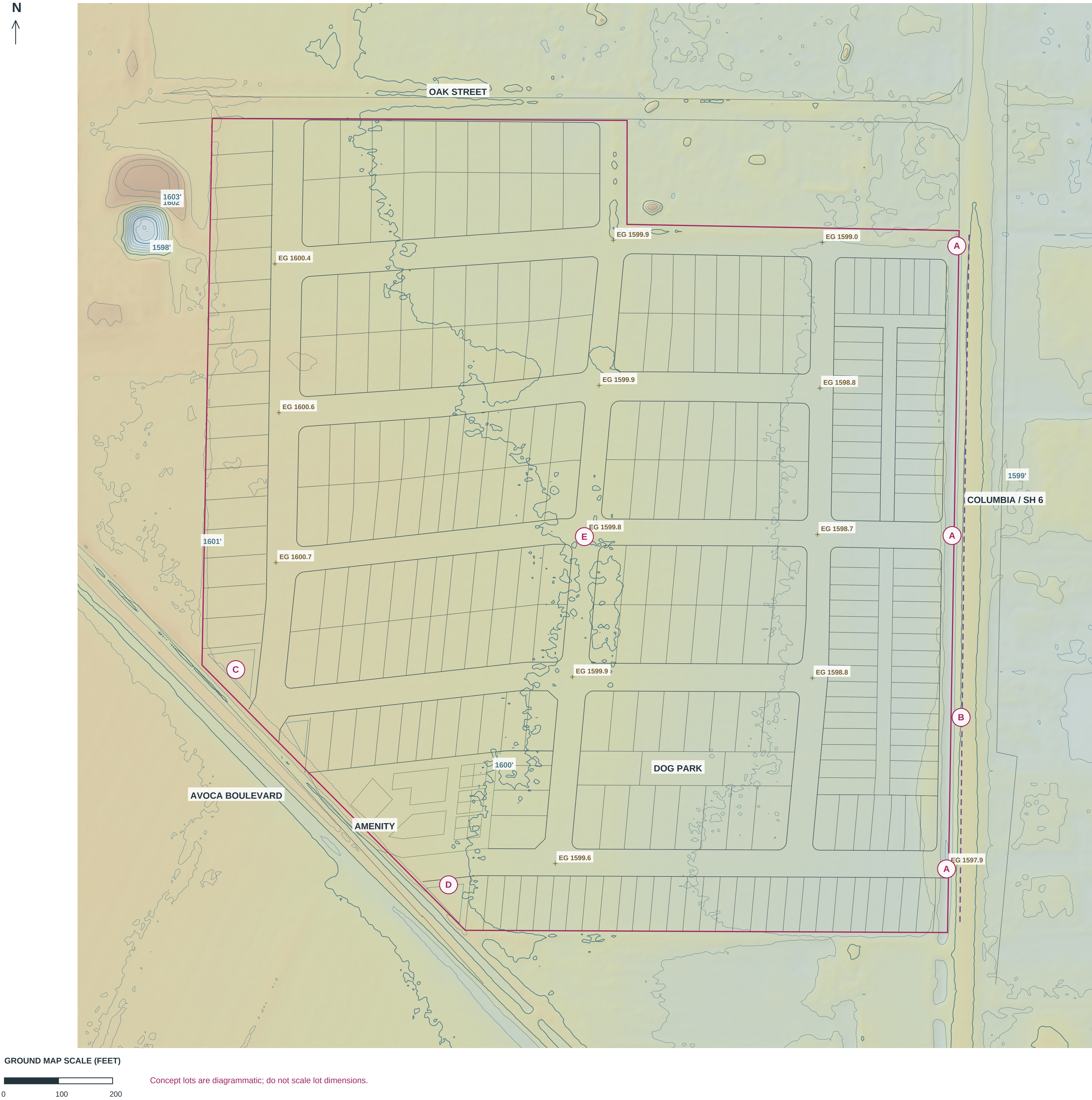




WHAT THE LIDAR SHOWS

1597.7' - 1602.2'

Existing ground elevation range within the approximate mapped footprint, in feet NAVD88. These are raster values, not surveyed spot shots.

West band: 1600.6' median

East band: 1598.6' median

West band is about 2.0 feet higher. This supports a general eastward fall; it does not establish a drainage outfall or a feasible sewer profile.

REVIEW MARKUP

A Highway connections

Connections are retained where the sketch shows them. Check access spacing, sight distance, ROW, permitting and tie-in grades before design.

B Reported sewer corridor

Purple dashed line represents the owner-reported general corridor along Columbia, not a located main. Obtain alignment, size, flow direction, rim/invert elevations and capacity.

C Western SWM corner

Retain the sketched reserve. Confirm contributing basins, site grades and lawful outlet; no storage capacity or discharge approval is established.

D Southern SWM corner

Check whether a positive outlet can be obtained. Existing street/ditch elevations and any culvert crossings require field survey.

E Local street and lot grading

Very small overall fall leaves limited vertical room. Establish street crowns, swales, drive grades and finished floors from survey and accepted city criteria.

DRAWING KEY

Concept layout limit / review bubbles

Existing-ground contours: 1 ft; bold every 5 ft

EG = LiDAR-derived existing-ground elevation

Owner-reported sewer corridor - unverified

SOURCE AND REGISTRATION

TxGIO StratMap 2025 Little, Middle and Lower Brazos Basins bare-earth DEM, tile 3299024a2. Acquisition: January 6-March 22, 2025; publication December 19, 2025. Raster: 1 m. Horizontal: NAD83(2011) / UTM 14N; vertical: NAVD88 GEOID18. Elevations shown in feet.

Owner sketch registered to the approximate Jones CAD map footprint using a piecewise affine fit. CAD-map control-fit RMS: 3.5 ft; this is a fit statistic, not positional accuracy. Neither lot fit nor legal acreage is established. See sheet 2.

CONCEPT REVIEW ONLY - NOT A SURVEY

NOT FOR PERMIT, RECORDING OR CONSTRUCTION

OCTOBER 16, 2026 | REV16 | 36 x 24 INCHES

SHEET C-01 OF 2

Training workflow and source selection

The owner's "LIDAR request" training video demonstrates selecting project tiles in Williamson County's LiDAR request map and requesting downloadable formats. Stamford is outside that county. The equivalent mapping workflow here uses TxGIO's statewide index and its 2025 LiDAR-derived DEM, without a third-party processing request.

Data actually used

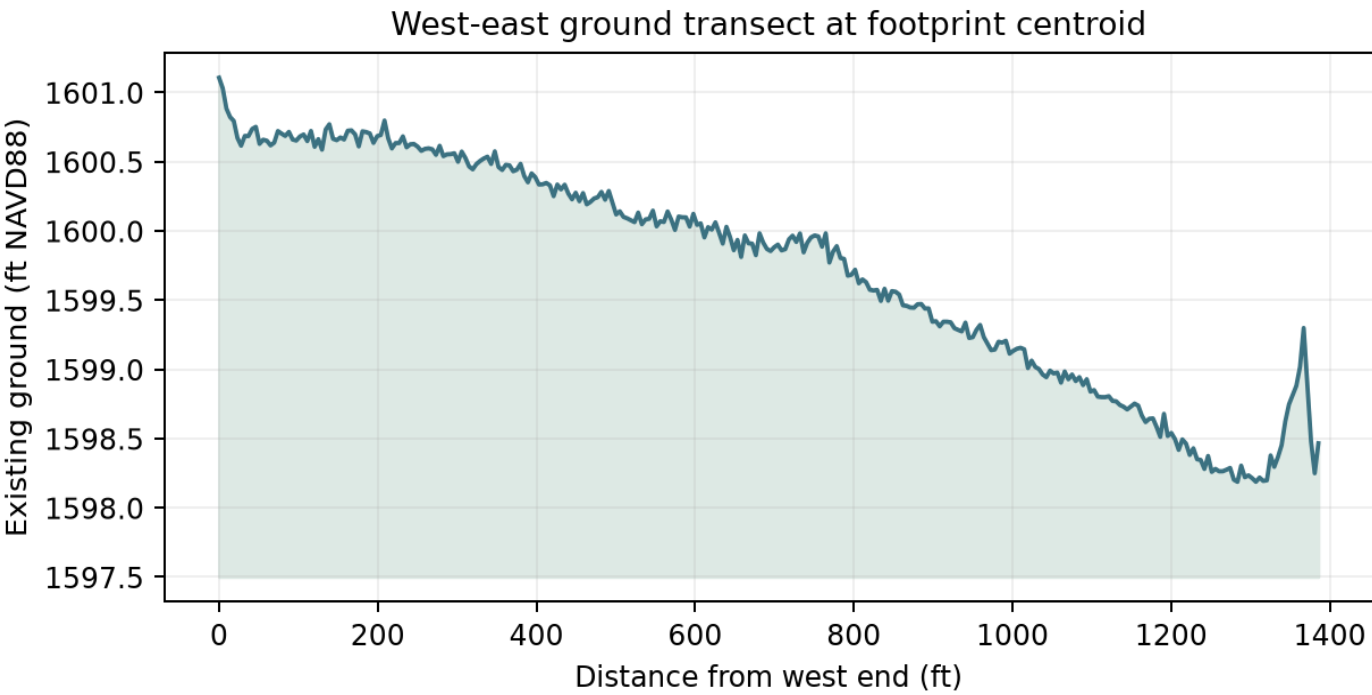
The TxGIO coverage index shows an older USGS collection and a 2025 StratMap collection at this site. The state collection catalog confirms the newer Little, Middle and Lower Brazos Basins collection. Its Stamford SE DEM archive was downloaded from the state's public storage mirror. Tile stratmap25-1m_3299024a2 supplies this overlay; the older USGS model was not used in the final map. Acquired January 6-March 22, 2025; published December 19, 2025.

How the overlay was located

Eight approximate matching corners in the owner's CAD-map image and the retrieved Jones CAD parcel GIS were used for a two-dimensional affine registration. The sketch's seven outline vertices were then fitted to the mapped footprint with a piecewise affine transformation. This preserves the sketch's street pattern while warping paper proportions. It cannot create legally dimensioned lots or replace boundary control.

Mapping limits that affect engineering use

One-foot contours are a cartographic interval, not a statement of one-foot accuracy. Minor cartographic smoothing is 0.8 raster cell; statistics and EG samples use the unsmoothed raster. The 2025 LiDAR may omit later earthwork and small ditches. No utility inverts, proposed grades, pipe sizes, runoff volumes, drainage acceptance or professional certification are supplied. The approximate mapped footprint computes about 42.1 acres, which must be reconciled with the approximately 40-acre project description by survey/title.



Descriptive section - not a proposed street profile

This line samples one east-west cross-section of the existing raster. Vertical scale is exaggerated for readability. It does not show a sewer, invert grade or finished-floor design.

Traceable sources

- Training video (Google Drive)
- TxGIO public LiDAR index
- TxGIO 2025 collection record
- TxGIO original DEM archive

Clipped GeoTIFF, georeferenced CAD, contour GeoJSON, Google Earth KMZ and registration evidence are included in the companion mapping package.