

WELCOME



F.E.C. right-of-way clearing crew on Key Largo - Nov. 1905



Surveying for the railroad bridges ca. 1906

5J-17.050 Definitions.

(2) Boundary Survey: a survey, the primary purpose of which is to document the perimeters, or any portion thereof, of a parcel or tract of land by establishing or re-establishing corners, monuments, and boundary lines, such as for the purposes of describing the parcel, locating fixed improvements on the parcel, dividing the parcel, or platting.

(7) Map of Survey (or Survey Map): a graphical or digital depiction of the facts of size, shape, identity, geodetic location, or legal location determined by a survey. The term “Map of Survey” (Survey Map) includes the terms: Sketch of Survey, Plat of Survey, or other similar titles. “Map of Survey” or “Survey Map” may also be referred to as “a map” or “the map.”

(10) Remote Sensing: The process of acquiring knowledge about physical features by analyzing data obtained from instrumentation located at a distance from the features being examined.

(11) Survey: The result of any professional service or work resulting from the practice of Surveying and Mapping as defined in chapter 472, F.S., which includes, As-built/Record Surveys, Boundary Surveys, Construction Layout Surveys, Condominium Surveys, Construction Control Surveys, Control Surveys, Elevation Surveys, Hydrographic/Bathymetric Surveys, Tidal or non-tidal Water Boundary Surveys, Photogrammetric Surveys (including Orthorectified Imagery), Quantity Surveys, and Topographic Surveys, whether it is measured by direct or remote sensing methods.

(12) Survey and Map Report: a written or digital document, that adequately communicates the survey results to the public through a map, (written or digital), or in a report form with an attached map and details methods used, measurements and computations made, accuracies obtained, and information obtained or developed by surveying and mapping techniques. The map and report shall identify the responsible surveyor and mapper.

(13) Work Product: the drawings, plans, specifications, plats, reports, and all related calculations and field notes, either hard copy or digital, of the professional surveyor and mapper in responsible charge or made under his/her supervision

5J-17.051 General Survey, Map, and Report Content Requirements. The following rules shall apply to all work products regardless of the method of data acquisition:

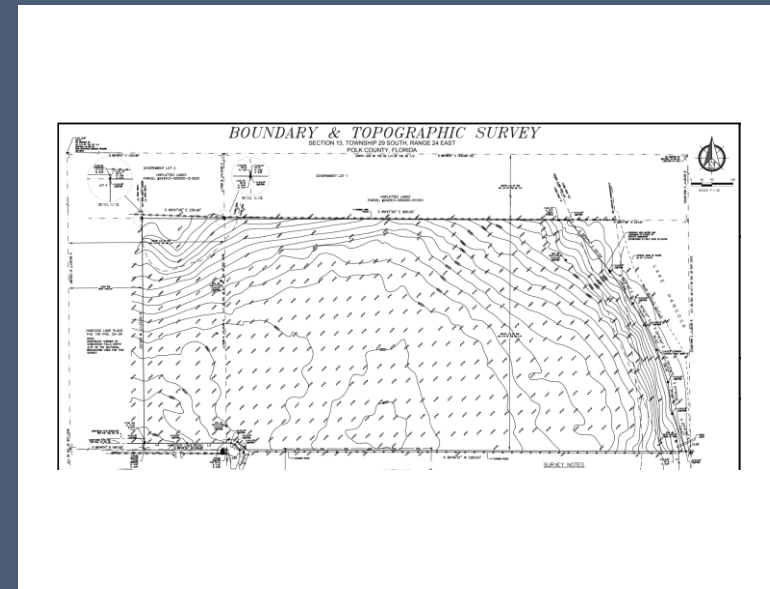
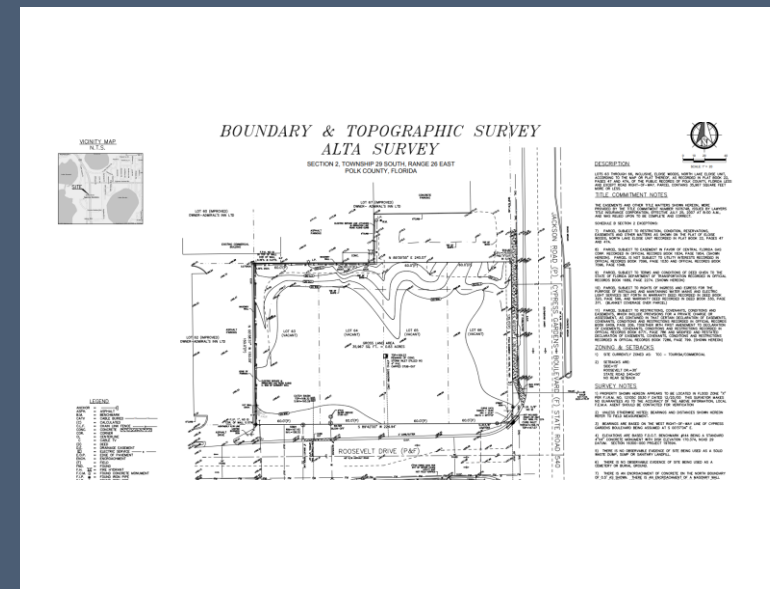
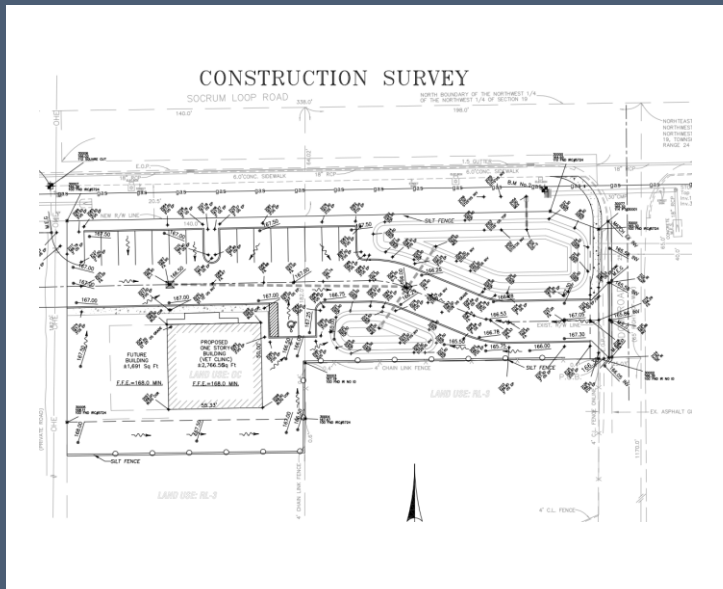
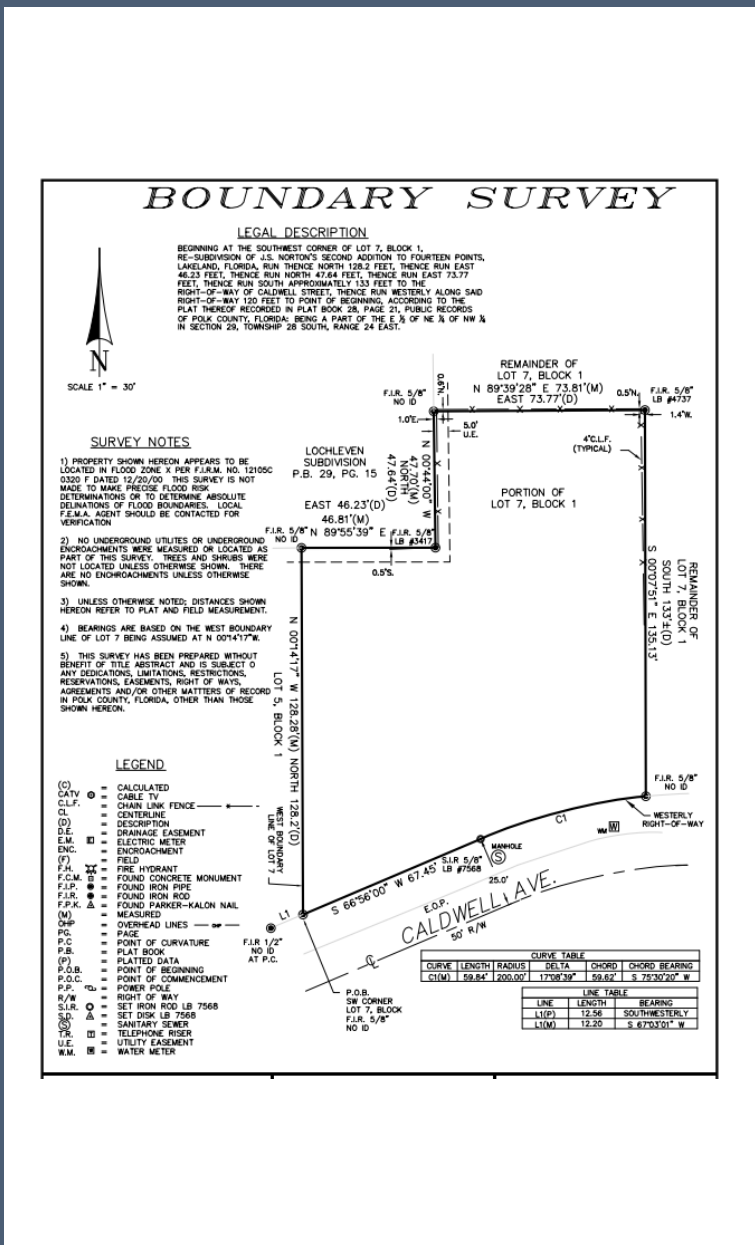
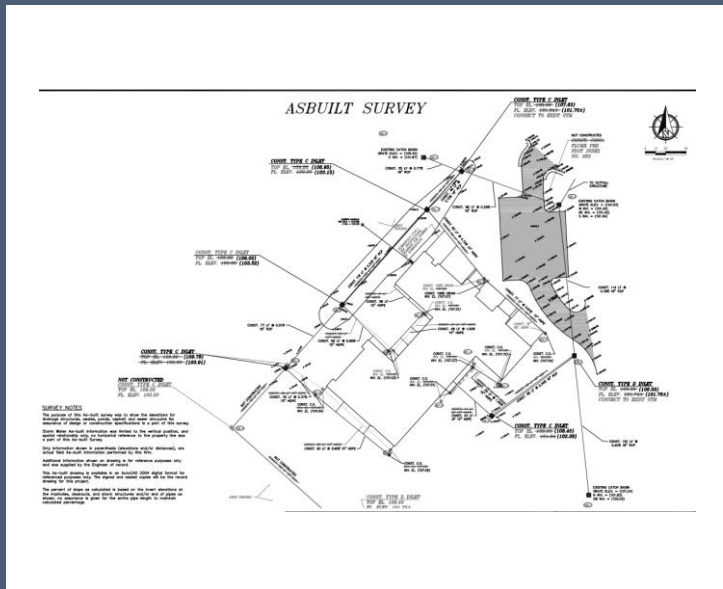
(1) Surveyors and mappers must achieve the following standards of accuracy, completeness, and quality:

(a) The licensee must adequately communicate the survey results to the public through a map or report with an attached map.

(i) The responsibility for all mapped features must be clearly stated on any map or report signed by a Florida licensed surveyor and mapper. When mapped features surveyed by the signing surveyor and mapper have been integrated with mapped features surveyed by others, then the map or report shall clearly state the individual primarily responsible for the map or report.

5J-17.052 Standards of Practice – Boundary Survey Requirements.

(1) Boundaries of Real Property:



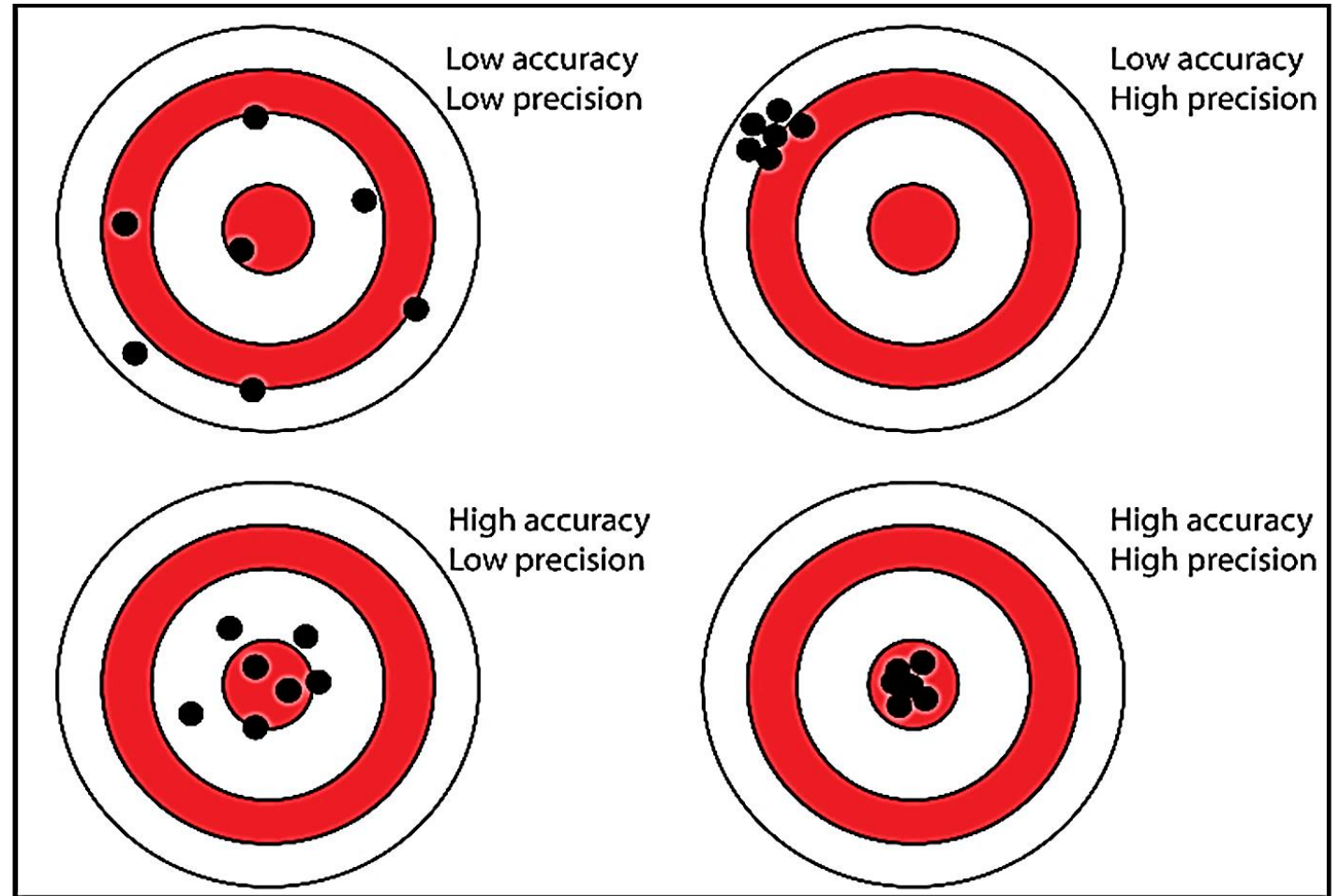
The boundary is the boundary
as marked in the field.



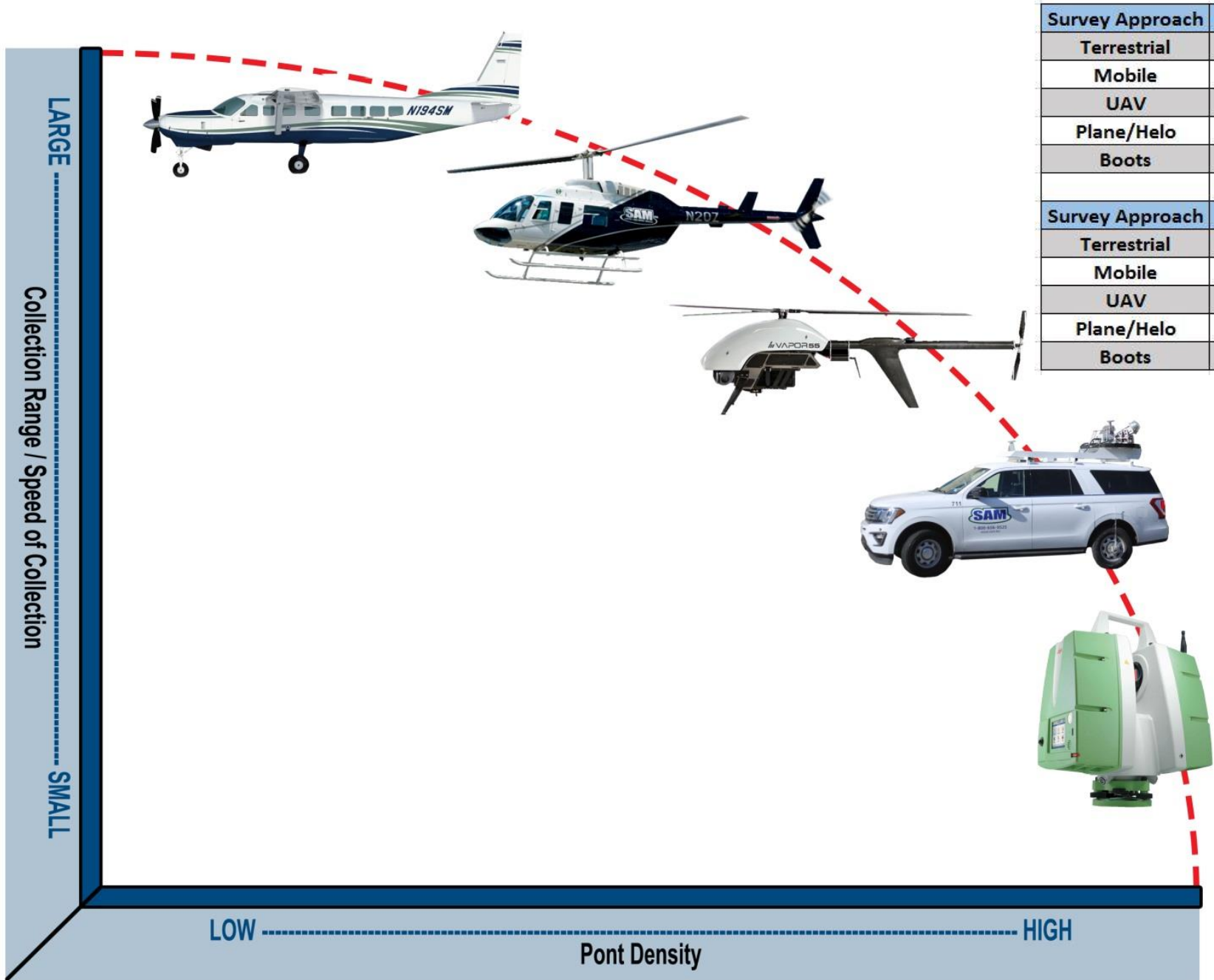
- 1962 - Set boundary corners at 1,600.00 feet with a steel tape and shown as such on the plat.
- 1996 - Measured 1,600.32 feet with a laser.
- 2015 - Measured 1,600.15 feet with a GPS unit.



- **Accuracy**-refers to how closely a measurement or observation comes to measuring a "true value", since measurements and observations are *always* subject to error.
- **Precision** -refers to how closely repeated measurements or observations come to duplicating measured or observed values. The best scenario is high accuracy & high precision.



- Discussion: Datums NAD83 and NAVD88 will be Replaced by the new NGS 2022 datum.
 - **Horizontal and Vertical values change over time. Ground shift.**
- Precision can be obtained with a chain that is 1 foot short. Resulting in being precisely wrong!

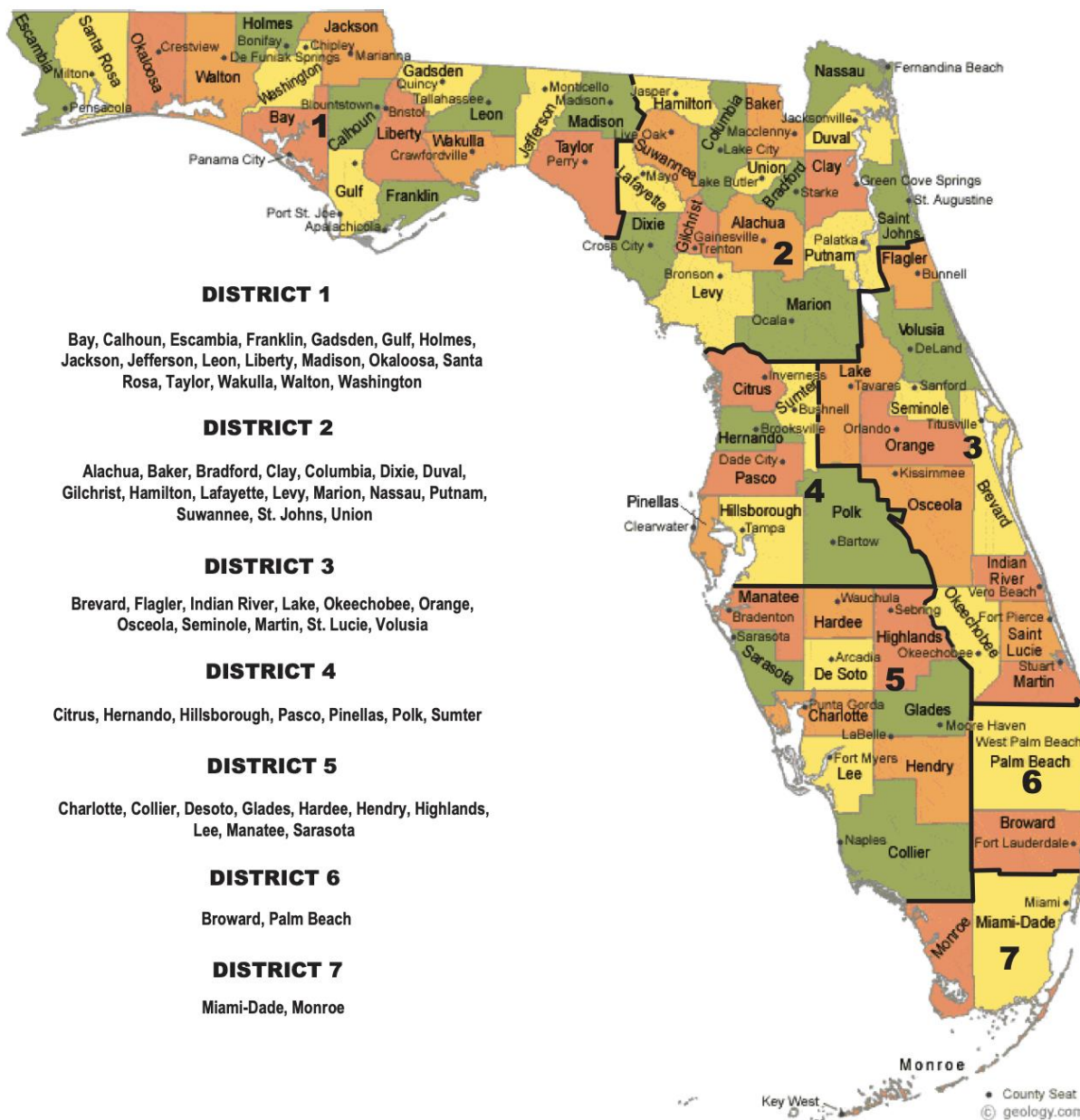


Survey Approach	Corridor (0-5 Miles)	Corridor (5-100 Miles)	Corridor (100+Miles)
Terrestrial	Maybe	No	No
Mobile	Yes	Yes	Maybe
UAV	Yes	Maybe	No
Plane/Helo	Maybe	Yes	Yes
Boots	Yes	Yes	Yes

Survey Approach	Site (0-10 Acres)	Site (10-250 Acres)	Site (250+ Acres)
Terrestrial	Yes	No	No
Mobile	Yes	Maybe	Maybe
UAV	Yes	Yes	Maybe
Plane/Helo	No	Yes	Yes
Boots	Yes	Yes	Yes

Each Instrument has a particular function.

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