PROFESSIONAL SERVICES
SUPPLEMENTAL AGREEMENT # 1
FOR
WEISS LANE

STATE OF TEXAS §
§
COUNTY OF TRAVIS §

FIRM: LJA Engineering, Inc. ("Consultant")

ADDRESS: 5316 Highway 290 West, Suite 150
Austin, Texas 78735

This Supplemental Agreement No.1 to a contract for Professional Services is made by and between the City of Pflugerville, Texas, hereinafter called the "City" and LJA Engineering, Inc. , hereinafter called the "Consultant".

WHEREAS, the City and Consultant executed an Agreement for Professional Services, hereinafter called the "Agreement", on the 15th day of July, 2015 for the Weiss Lane project in the amount of $852,286.95; and

WHEREAS, it has become necessary to amend the Agreement to modify the provisions for the Scope of Services and Compensation;

WHEREAS, the parties elect to apply the changes enacted by the 84th Legislature in HB 2049, to the indemnity and duties of engineers and architects, to the additional scope of work commenced after the execution of this agreement; and

NOW THEREFORE, premises considered, the City and the Consultant agree that said Agreement is amended as follows:

Article III. Scope of Services and Exhibit A, shall be amended as set forth in the attached addendum to Exhibit A.

Article IV. Compensation to Consultant and Exhibit C (Fee Schedule), shall be amended by by increasing by $641,296.00 the amount payable under the Agreement for a total of $1,493,582.95, as shown by the attached Addendum to Exhibit C (Fee Schedule).

Article IX. Insurance, shall be amended by requiring Consultant to name the City, its officers, officials, employees, volunteers, and elected representatives as additional insured by endorsement under terms satisfactory to the City, as respects operations and activities of, or on behalf of, the named insured performed under contract with the City, with the exception of the workers' compensation and professional liability policies.

Article X. Indemnification, shall be substituted with:

10.1 **CONSULTANT covenants and agrees to INDEMNIFY and HOLD HARMLESS, the CITY and the elected officials, employees, officers, directors, volunteers and representatives of the CITY, individually and collectively, from and against any and all costs, claims, liens, damages, losses, expenses, fees, fines, penalties, proceedings, actions, demands, causes of action, or liability for damages caused by or resulting from an act of negligence, intentional tort, intellectual property infringement, or failure to pay a subcontractor or supplier committed by the CONSULTANT or the CONSULTANT's agent, CONSULTANT under contract, or another entity over which the CONSULTANT exercises control. Such acts may include personal or bodily injury, death and property damage, made upon the CITY directly or indirectly arising out of, resulting from or related to CONSULTANT'S activities under this Agreement, including any negligent or intentional acts or omissions of CONSULTANT, any agent, officer, director, representative, employee, consultant or subcontractor of CONSULTANT, and their respective officers, agents employees, directors and representatives while in the exercise of the rights or performance of the duties under this Agreement. The indemnity provided for in this paragraph shall not apply to any liability resulting from the negligence of CITY, its elected officials, employees, officers, directors, volunteers and representatives, in instances where such negligence causes personal injury, death, or property damage. In no event shall the indemnification obligation extend beyond the date with when the institution of legal or equitable proceedings for the professional negligence would be barred by any applicable statute of repose or statute of limitations.**

10.2 The provisions of this INDEMNITY are solely for the benefit of the parties hereto and not intended to create or grant any rights, contractual or otherwise, to any other person or entity. CONSULTANT shall advise the CITY in writing within 24 hours of any claim or demand against the CITY or CONSULTANT known to CONSULTANT related to or arising out of CONSULTANT's activities under this AGREEMENT.

10.3 **Duty to Defend – Consultant covenants and agrees to hold a DUTY TO DEFEND the CITY and the elected officials, employees, officers, directors, volunteers and representatives of the CITY, individually and collectively, from and against any and all claims, liens, proceedings, actions or causes of action, other than claims based wholly or partly on the negligence of, fault of, or breach of contract by the CITY, the CITY'S agent, the CITY'S employee or other entity, excluding the CONSULTANT or the CONSULTANT'S agent, employee or sub-consultant, over which the CITY exercises control. CONSULTANT is required under this provision and fully satisfies this provision by naming the CITY and those representatives listed above as additional insured under the CONSULTANT'S general liability insurance policy and providing any defense provided by the policy upon demand by CITY.**

10.4 **CONSULTANT is required to perform services to the City under the standard of care provided for in Texas Local Government Code § 271.904 (d)(1-2)**

10.5 Employee Litigation – In any and all claims against any party indemnified hereunder by any employee of CONSULTANT, any subcontractor, anyone directly or indirectly employed by any of them or anyone for whose acts any of them may be liable, the indemnification obligation herein provided shall not be limited in any way by any limitation on the amount or type of damages,

compensation or benefits payable by or for CONSULTANT or any subcontractor under worker's compensation or other employee benefit acts.

10.6 Force Majure - City agrees that the CONSULTANT is not responsible for damages arising from any circumstances such as strikes or other labor disputes; severe weather disruptions, natural disasters, fire or other acts of God; riots, war or other emergencies; or failure of any third party governmental agency to act in timely manner not caused or contributed to by CONSULTANT.

EXECUTED and **AGREED** to as of the dates indicated below.

CITY OF PFLUGERVILLE		**CONSULTANT**	
_____ *(Signature)*		_____ *(Signature)*	
Printed Name:	Brandon E. Wade	Printed Name:	Jeff Collins
Title:	City Manager	Title:	Executive Vice President
Date:	_____	Date:	01/05/16

APPROVED AS TO FORM:

_____

George Hyde
City Attorney
Denton Navarro Rocha Bernal Hyde & Zech, P.C.

Exhibit A - Scope of Services

SERVICES TO BE PROVIDED BY THE ENGINEER

Roadway: Weiss Lane
County: Travis
Limits: **Schematic & PS&E:** from E. Pecan Street to Cele Road

General Work Description: Development of a schematic and PSE set of plans for widening the existing Weiss Lane roadway from the proposed Travis County bridge project to Kelly Lane as a proposed 4-lane urban facility with a transition to Cele Rd. South of the Travis County bridge project, Weiss Lane will remain a two lane rural section in accordance with current interlocal project.

PROJECT MANAGEMENT AND COMMUNICATION PLAN

- Meetings & Coordination
  - Additional City Coordination Meetings
  - Additional Sub Coordination Meetings
  - Additional Design Team Meetings
- Invoicing, Contract Document Coordination, Progress Reports
  - Additional monthly progress reports
  - Additional monthly invoices
  - Set Up and Process Supplemental Agreements
- Update Project Scheduling
  - Update an critical path schedule (Microsoft Project)

SURVEY

- See Attached Scope and Fee – McGray & McGray

UTILITIES

Not included in the scope for this project is Level A & B SUE or Utility Agreements. If these services are desired a supplemental will be required.

SPECIALTY SERVICES

- See Attached Scope for Altura – TDLR Review and Inspection
- See Attached Scope for Rodriguez Engineering Laboratories – Geotechnical Services

---

PLANS, SPECIFICATIONS, AND ESTIMATE (PS&E) DEVELOPMENT
ROADWAY

Additional designs will be provided for the following activities based on a 4-lane urban design from North of the Travis County Bridge project to Cele Road:

- Roadway
  - Design for a Shared Use Path from near Wilbarger Creek to Hidden Lakes Crossing.
  - Design for a 6' sidewalk along corridor as directed by the City.
  - Design and sheets for a widening and turn bays along East Pflugerville Parkway and Kelly Lane.
  - Additional Southbound roadway design and Plan and Profile Sheets
  - Additional Driveway Design
  - Additional Cross Sections
  - Additional Earthwork: The Engineer shall analyze the earthwork to develop cut and fill.
  - Additional Quantity Summaries
  - Standards

DRAINAGE

- Drainage
  - Additional Internal Drainage Area Map Sheets
  - Design and create GEOPAK storm sewer models
  - Create Strom Sewer Plan Sheets
  - Create Storm Sewer Profile Sheets
  - Hydraulic Data Sheets
  - Additional Quantity Summaries
  - Additional Standards

- Mitigation
  - Calculate Additional Runoff. Increase in impervious cover
  - Determine potential impacts to receiving waters (3 streams)
  - Prepare mitigation findings for documentation with City

  The need for detention on this project is not anticipated as all outfalls are large stream crossings with much higher peaking times. If detention design is necessary, it will be a supplemental agreement to this contract.

EROSION CONTROL

- Erosion Control
  - Additional Erosion control design for 4-lane urban storm sewer design

SIGNING & PAVEMENT MARKINGS

- Signing and Pavement Marking Plans
  - Additional Southbound signing and pavement marking design

TRAFFIC CONTROL

TCP not included. Amount detailed in original scope is adequate

TRAFFIC

LJA shall prepare traffic signal plans at the intersections East Pecan Street, East Pflugerville Parkway, Hidden Lake Crossing, Kelly lane, and at PISD High school #4. Traffic signal plans shall be signed and sealed by a Professional Engineer. The Engineer shall develop all quantities, general notes, specifications, and incorporate the appropriate agency standards required to complete construction.

The following information shall be provided in the Traffic Signal Plans for each intersection:

1. Estimate and quantity sheet
   - List of all traffic signal items and equipment
   - Traffic signal items quantities

2. General notes and specifications

3. Plan sheet(s)
   - Existing roadway conditions
   - Existing utilities
   - Proposed roadway plans
   - Proposed signing and pavement marking plans at the approaches to the intersections to be signalized
   - Proposed illumination attached to signal poles
   - Proposed power source
   - Proposed traffic signal equipment

4. Proposed traffic signal details
   - Signal equipment locations
   - Signal phasing diagram
   - Signal sequence table
   - Signal wiring diagram

5. Construction detail sheets
   - Poles
   - Detectors
   - Pull box and conduit
   - Controller foundation standard sheet
   - Electrical details
   - Traffic signal poles and controller foundations
   - Communication

6. Coordination and Agency Approval

   LJA will coordinate with the City of Pflugerville for approval of the traffic signal plan sheets.

RETAINING WALLS

Not included in the scope and fee for this project is design of retaining walls. In the event a retaining wall would be needed a supplemental will be required.

STRUCTURES

Additional design and PS&E sheets required for 2 additional southbound structures located at the crossings of the unnamed tributary to unnamed tributary of Wilbarger Creek and Unnamed tributary to Wilbarger creek. These structures are in addition to the 2 northbound structures that were included in the original Weiss Lane Scope.

- Bridge

  All bridge structures shall be designed for **HL 93 loading.**

- Bridge Layout

  The Bridge layouts in Plan View shall contain the following information:

  - Reference line, centerline, or profile grade line (bearing, location, and station).
  - Horizontal curve information.
  - Right of way (if required).
  - Skew angle(s).
  - Bearing of centerline.
  - Include horizontal and vertical template information of all roadways or railroads crossed.
  - Approach slab and curb returns.
  - Typical bridge roadway section including preliminary proposed beam types and spacings.
  - Slope for header banks and approach fills.
  - Control stations at beginning and ending of bridge (with deck elevation).
  - Approach pavement and crown width.
  - Bridge roadway width and curbs, face of rail, shoulders or sidewalks.
  - Limits and type of riprap.
  - Proposed features under structure.
  - Location of profile grade line.
  - North Arrow.
  - Cross slope and superelevation data.
  - Minimum horizontal distances and vertical clearance points.
  - Location of soil borings (station and offset).
  - Bent stations and bearings.
  - Retaining wall locations, if applicable.
  - Traffic flow directional arrows and stream flow direction (if any).
  - Railing types shown.
  - Joint types and seal size, if used.

- Critical horizontal clearances (location of railroad tracks, nearby structures and utilities).
- Present and projected (20 years) ADT.
- Design speed and functional classification.
- Drawing scale shall be as recommended in the bridge detailing manual.
- Show National Bridge Inventory (NBI) Number.
- Locate bridge drain and bridge lighting bracket stations on plan view, when applicable.

Bridge Layouts in Elevation View should contain the following:

- Type of foundation.
- Finished grade elevations at beginning and end of bridge.
- Overall length of structure.
- Length, type of spans and units.
- Type of railing.
- Minimum calculated vertical clearance(s).
- Existing and proposed ground lines clearly marked.
- Grid elevations and stations.
- Bent numbers encircled.
- Standard Title.
- Profile grade data.
- Type of riprap.
- Fixed/expansion condition of all bents.
- Number, size and length of foundations.
- Drawing scale shall be as recommended in the bridge detailing manual.
- Floodplain elevations.

Bridge Layouts in Typical Transverse Section should contain the following:

- Widths (overall, roadway, shoulders, sidewalks, etc.).
- Profile grade line and horizontal control line.
- Cross slope.
- Type of railing.
- Beam type and numbers (if required).

The Engineer shall develop bridge layouts after the schematic refinement is approved by the City and County and submit a 100% complete bridge layout to the City and County at the 30% submittal to provide ample review and design time. The Engineer shall not proceed with detailed design until the preliminary bridge layouts are approved by the City and County.

Description	Approx Length	Approx Width	Comments
Unnamed Tributary to Unnamed Tributary to Wilbarger Creek	80 ft	48 ft	Concrete Tx-Girder spans with two abutments

Unnamed Tributary to Wilbarger Creek	300ft	48 ft	Concrete Tx-Girder spans with multi-column bents and two abutments

---

MILESTONE COMMENT RESOLUTION

Comment resolution not included. Amount detailed in original scope is adequate.

ILLUMINATION

The engineer shall prepare plans for continuous lighting along Weiss Lane from E. Pecan Street to Cele Road. Plans shall include illumination layouts, conduit layouts, electrical details, AGI 32 design, and standards. The engineer will provide foundation design and details for all illumination elements as necessary.

Engineer will coordinate electric service details with electric service provider. Electric service provider will provide electric service and circuit design.

Street and guide signs will not require illumination.

BID PHASE SERVICES

The engineer will perform the following:

- Prepare Project Manual
- Prepare Bid Documents
- Attend Pre-Bid Meeting
- Answer Bid Questions
- Attend-Bid opening
- Bid Tabulation and recommendation of award

CONSTRCUTION PHASE SERVICES

The engineer will perform the following:

- Attend Pre Construction Meeting
- Review and Approve Specifications
- Review Shop Drawings
- Review and Approve Pay Applications
- Respond to RFI's (8)
- Respond to Change Orders (2)
- Construction site visits (18)
- Attend Construction Coordination meetings (18)

- As-Builts

NOT INCLUDED IN THIS SCOPE

- Material Testing - anticipated to be additional services closer to design completion
- Bridge Inspection - anticipated to be additional services closer to design completion

December 8, 2015

McGRAY & McGRAY
LAND SURVEYORS, INC.

Brian Young, P.E.
LJA Engineering, Inc.
5316 Highway 290 West, Ste. 150
Austin, TX 78735
(512) 439-4700

VIA EMAIL
byoung@ljaengineering.com

RE: Revised Proposal for Additional Surveying Services for the Weiss Lane Road Improvements Project, City of Pflugerville, Texas

Dear Mr. Young:

We appreciate the opportunity to present you with this revised proposal for the above referenced project. The following represents our understanding of the area to survey, scope of services, and our fee proposal follows.

Area to Survey:

- As shown on attached exhibit.

Scope of Services:

Design Survey:

- Contact private property owners to obtain permission to enter and survey within private properties. If we encounter an uncooperative or hostile property owner, we will consult with you and/or the City of Pflugerville for directions for resolution. There may be some properties we cannot enter.
- Cross sections shall be taken at 50 - foot intervals along with break lines as required to provide a digital topographic design file at 1 - foot interval contours for the proposed additional areas. Side streets, alleys and drainage ways shall be surveyed a minimum of 200-feet in each direction from the primary road unless otherwise specified. Both top of curb and gutter elevations (edge of pavement if no curb) shall be provided. Pavement elevations shall be obtained at the centerline of the roadway, edge of travel way (shoulder line) and edge of pavement. Typically top of pavement shall be obtained to the 0.01 foot accuracy and top of ground to 0.10 foot accuracy.
- Locate and identify all above ground features within the survey limits including buildings, fences, visible utilities, sidewalks, driveways, handicap ramps, guardrails, signs, manholes, water valves, telecom boxes, utility poles, mailboxes, irrigation heads, water meters, sanitary sewer clean outs, etc. The outside limits of dense tree and vegetation growth shall be identified. Trees 6-inches and larger in diameter shall be measured, identified and tagged with a point number.

- Locate all soil borings, horizontally and vertically, which typically will occur at a date later than the original boundary/topo survey.
- Show locations of existing utilities based on drawings provided by you and from field locates provided by DIGTESS.
- Locate and identify types of existing pavement surfaces for streets, alleys, sidewalks, driveways, etc. Locate and identify existing lane markings and signage in detail [color, width, words, symbols, etc.]. Locate and identify existing traffic signals including base, mast arms, and control boxes. Locate and identify any planters, mailboxes (with type) and other improvements.
- Invert elevations and size/type of utility and drainage pipes and culverts shall be identified for all manholes and culverts within the project limits. For all gravity flow utilities (i.e. storm water and sanitary sewer) tie in the manhole upstream and downstream of the last manhole within the project limits. This may result in having to tie in manholes that are outside of the project limits as defined by you. Note any relevant information (damaged, silted in, etc.).

Right-of-Way Mapping:

- Provide plats and descriptions for 30 proposed ROW acquisitions.

Electronic File Requirements:

A. Survey shall be provided in Microstation (.dgn) and AutoCAD (.dwg) format.

B. The units of the drawing file shall be U.S. survey feet.

C. All submittals shall include all of the control points utilized for the project. All control points shall have their own unique point number, northing and easting coordinate, elevation, and point description.

D. All electronic submittals shall include a text block that states the coordinate system (horizontal and vertical) that the survey is using along with any scale factors used for GPS applications, i.e. surface to grid scale factor.

Fees:

Design Survey (Non-taxable):

2 Man Crew:	80 hrs @	$146.00 /hr.=	$	11,680.00
RTK Crew:	8 hrs @	$220.00 /hr.=	$	1,760.00
GPS Processing:	2 hrs @	$105.00 /hr.=	$	210.00
Field Coordinator:	6 hrs @	$95.00 /hr.=	$	570.00
Sr. Tech:	20 hrs @	$93.00 /hr.=	$	1,860.00
Tech:	80 hrs @	$72.00 /hr.=	$	5,760.00
RPLS:	6 hrs @	$140.00 /hr.=	$	840.00
Project Manager:	2 hrs @	$160.00 /hr.=	$	320.00
		TOTAL =	**$**	**23,000.00**

Right-of-Way Mapping (taxable):

These surveying services will be provided on a per parcel basis of $2,200.00, not to exceed the fee of $66,000.00 plus 8.25% sales tax of $5,445.00, for a total of **$71,445.00**.

Summary:

Design Survey Total	$	23,000.00
Right-of-Way Mapping Total	$	66,000.00
GRAND TOTAL	**$**	**89,000.00**

Optional Grand Total (with 8.25% sales tax)*

Right-of-Way Mapping Total with $ 5,445.00 sales tax	$	71,445.00
***GRAND TOTAL**	**$**	**94,445.00**

**Since this project includes taxable services, we will need to receive a Texas Sales and Use Tax Resale Certificate for those services prior to starting the project. If one is not available, sales tax will be charged.

We will proceed as soon as we receive notice to proceed. We estimate it will take approximately 6 to 10 weeks (weekends and holidays excluded) from notice to proceed to complete this project, weather and circumstances beyond our control permitting. Please let us know if we need to accelerate this schedule.

Thank you for including us on this project. We look forward to the opportunity to work with you. If you think we have omitted any service you require or misinterpreted your request, please let me or Chris Conrad know.

Sincerely,

Judith J. McGray, RPLS
President
TBPLS Firm #10095500

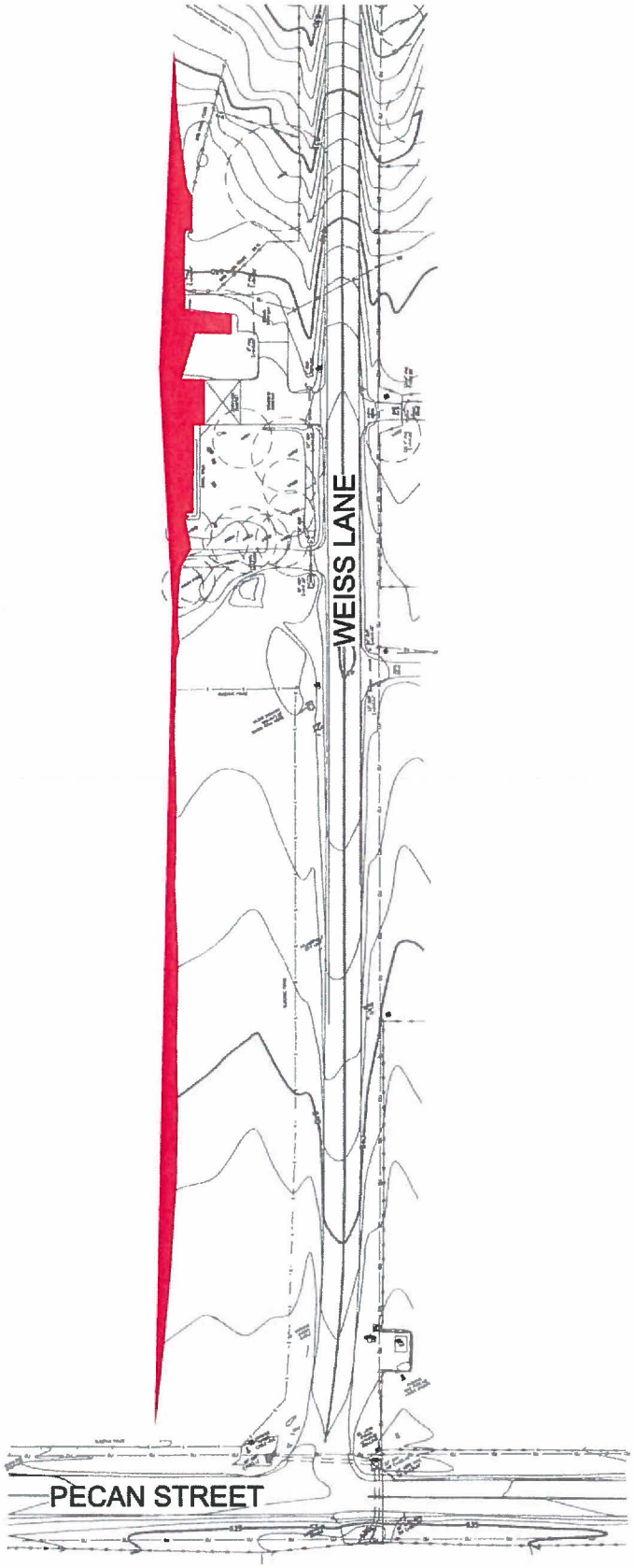
Authorized to Proceed by:

Signature Date

Print Name Title

JJM:CIC:klr
Encl.

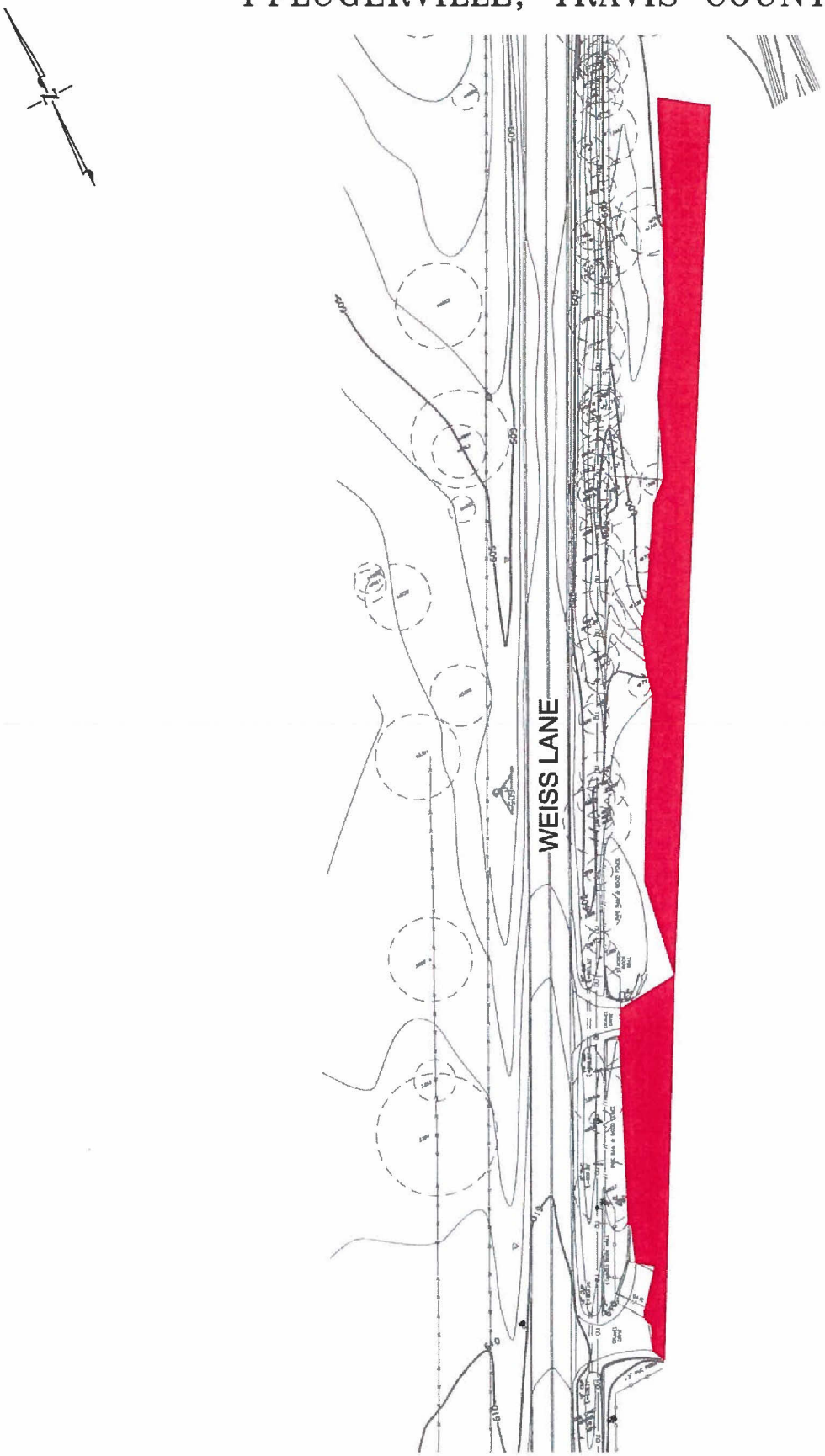
PECAN STREET & WEISS LANE AREA 1 – PROJECT
PFLUGERVILLE, TRAVIS COUNTY, TEXAS



SURVEY AREA NEEDED = 0.2131 ACRE

McGRAY & McGRAY
LAND SURVEYORS, INC.
3301 HANCOCK DRIVE #6
AUSTIN, TEXAS 78731
(512) 451-8591

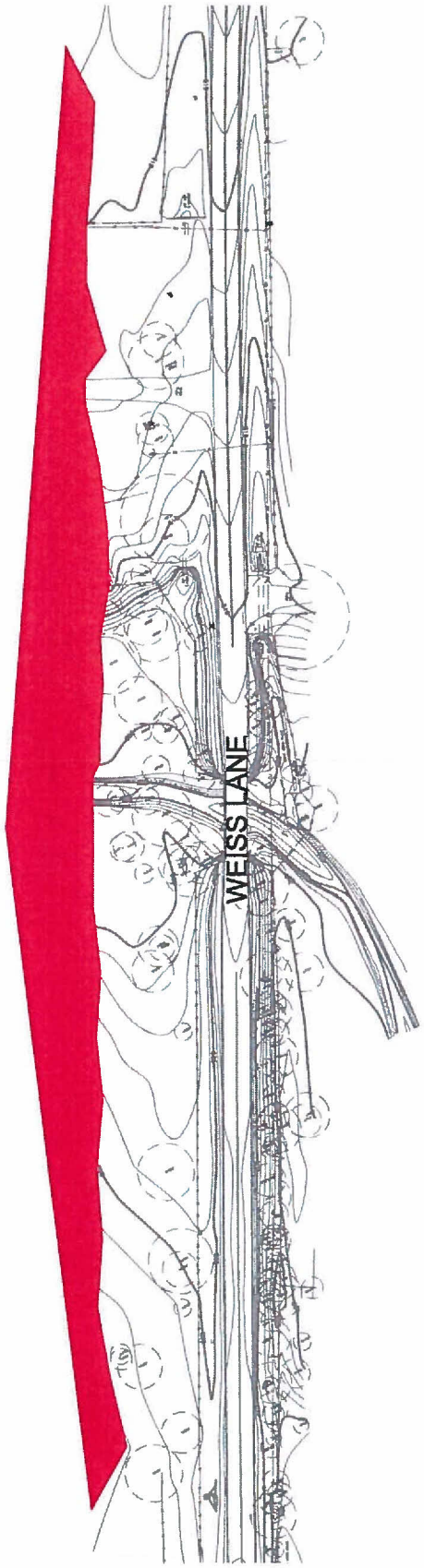
WEISS LANE AREA 2 – PROJECT
PFLUGERVILLE, TRAVIS COUNTY, TEXAS



SURVEY AREA NEEDED = 0.2950 ACRE

McGRAY & McGRAY
LAND SURVEYORS, INC.
3301 HANCOCK DRIVE #6
AUSTIN, TEXAS 78731
(512) 451-8591

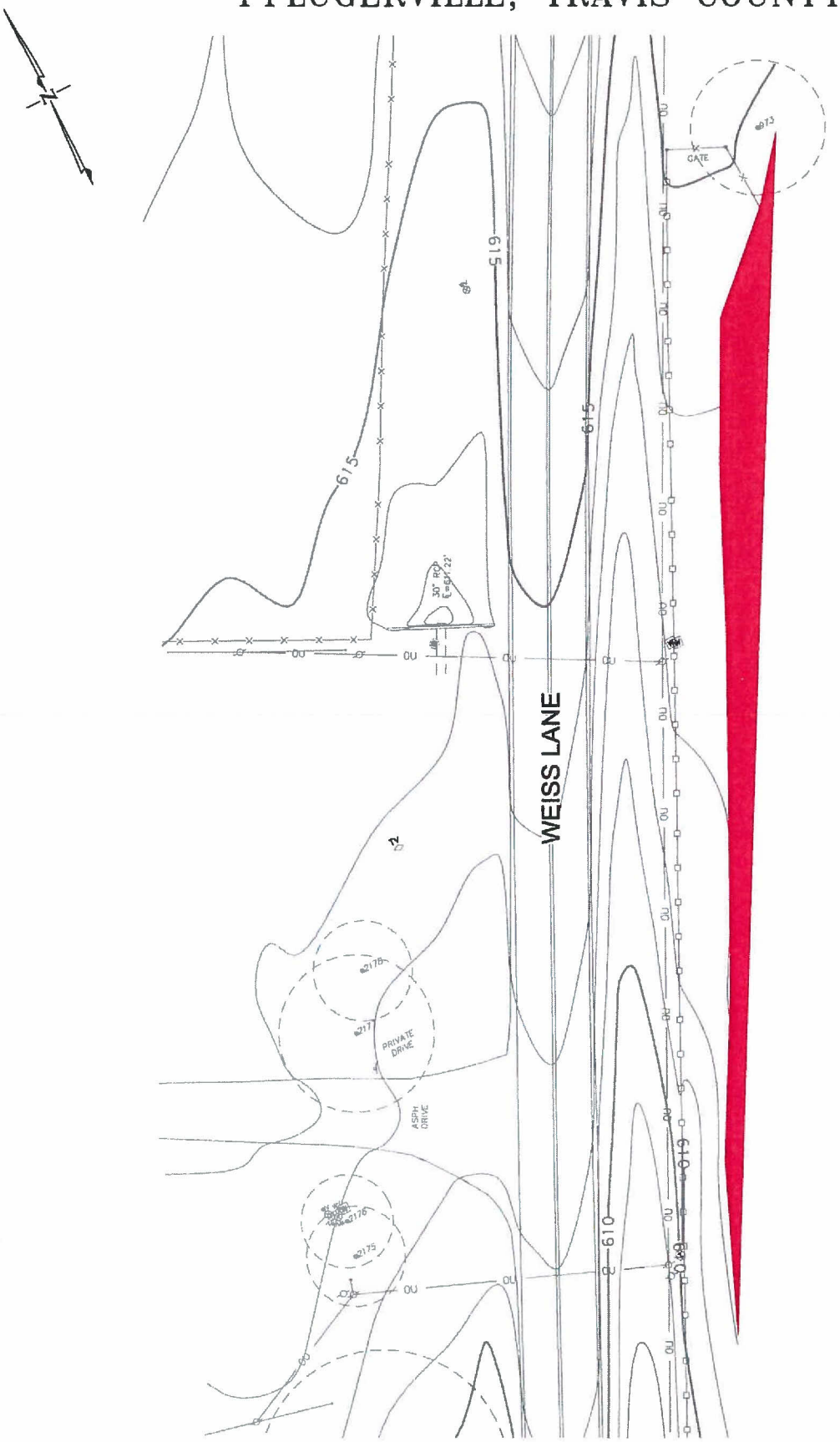
WEISS LANE AREA 3 – PROJECT
PFLUGERVILLE, TRAVIS COUNTY, TEXAS



SURVEY AREA NEEDED = 1.2131 ACRE

McGRAY & McGRAY
LAND SURVEYORS, INC.
3301 HANCOCK DRIVE #6
AUSTIN, TEXAS 78731
(512) 451-8591

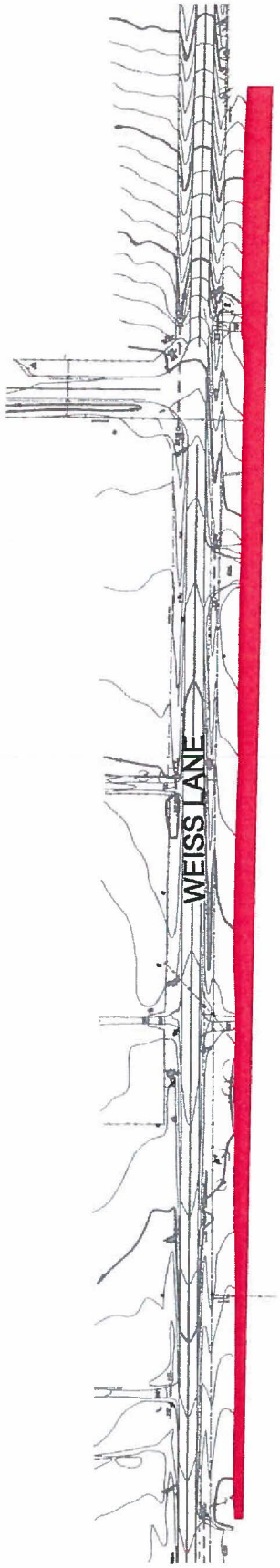
WEISS LANE AREA 4 – PROJECT
PFLUGERVILLE, TRAVIS COUNTY, TEXAS



SURVEY AREA NEEDED = 0.0563 ACRE

McGRAY & McGRAY
LAND SURVEYORS, INC.
3301 HANCOCK DRIVE #6
AUSTIN, TEXAS 78731
(512) 451-8591

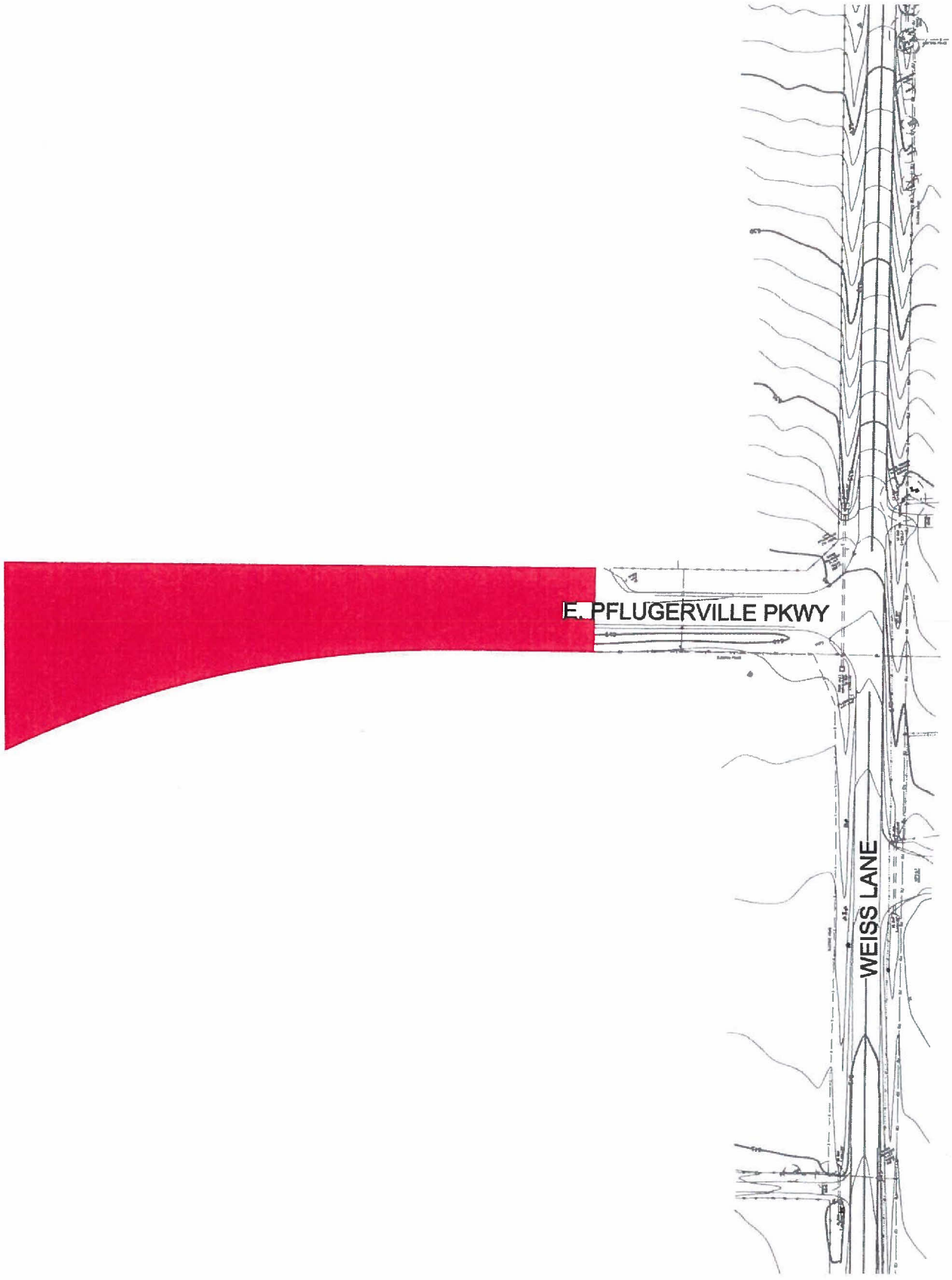
WEISS LANE AREA 5 – PROJECT
PFLUGERVILLE, TRAVIS COUNTY, TEXAS



SURVEY AREA NEEDED = 0.8839 ACRE

McGRAY & McGRAY
LAND SURVEYORS, INC.
3301 HANCOCK DRIVE #6
AUSTIN, TEXAS 78731
(512) 451-8591

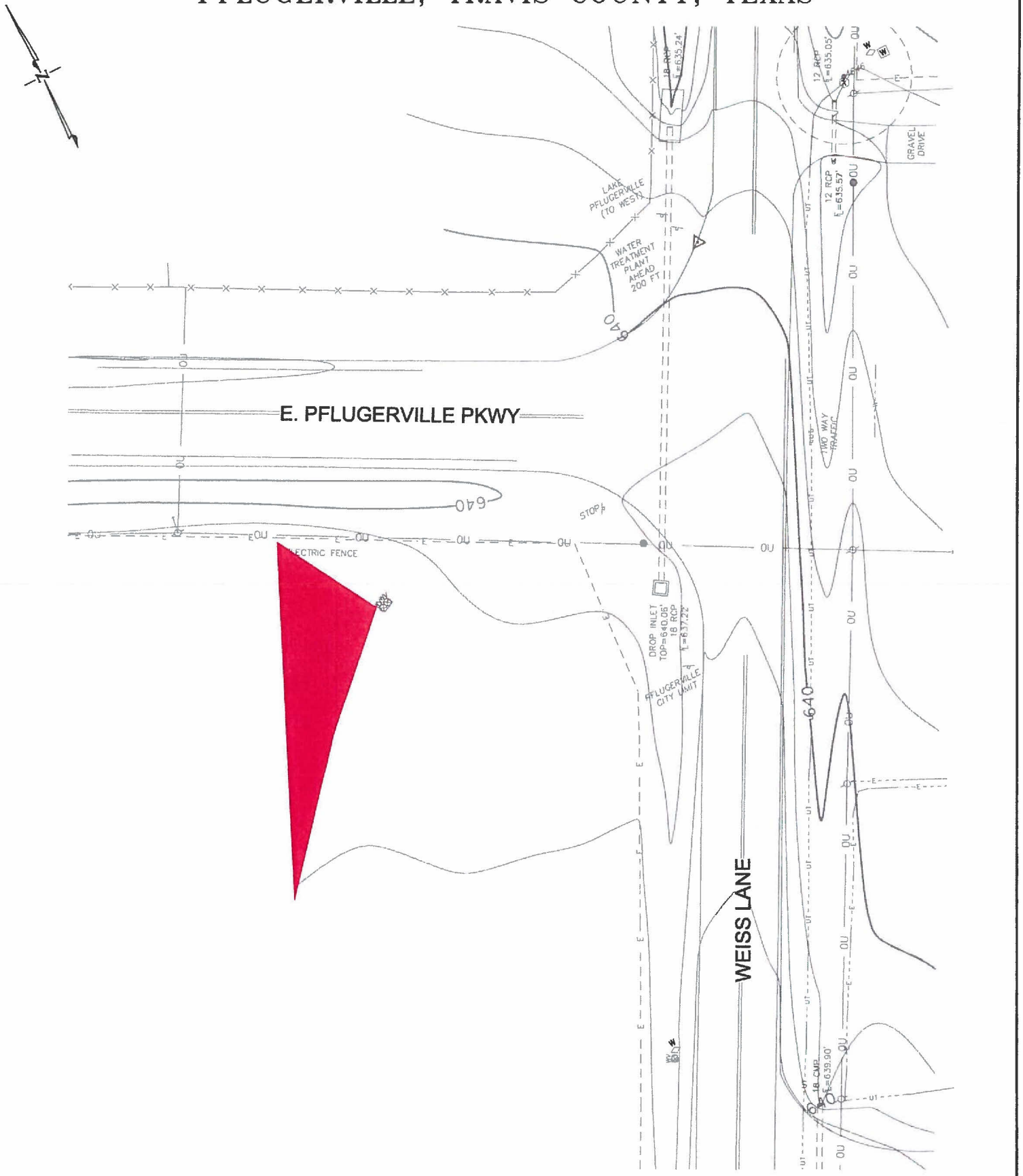
WEISS LANE AREA 6 – PROJECT
PFLUGERVILLE, TRAVIS COUNTY, TEXAS



SURVEY AREA NEEDED = 1.0268 ACRE

McGRAY & McGRAY
LAND SURVEYORS, INC.
3301 HANCOCK DRIVE #6
AUSTIN, TEXAS 78731
(512) 451-8591

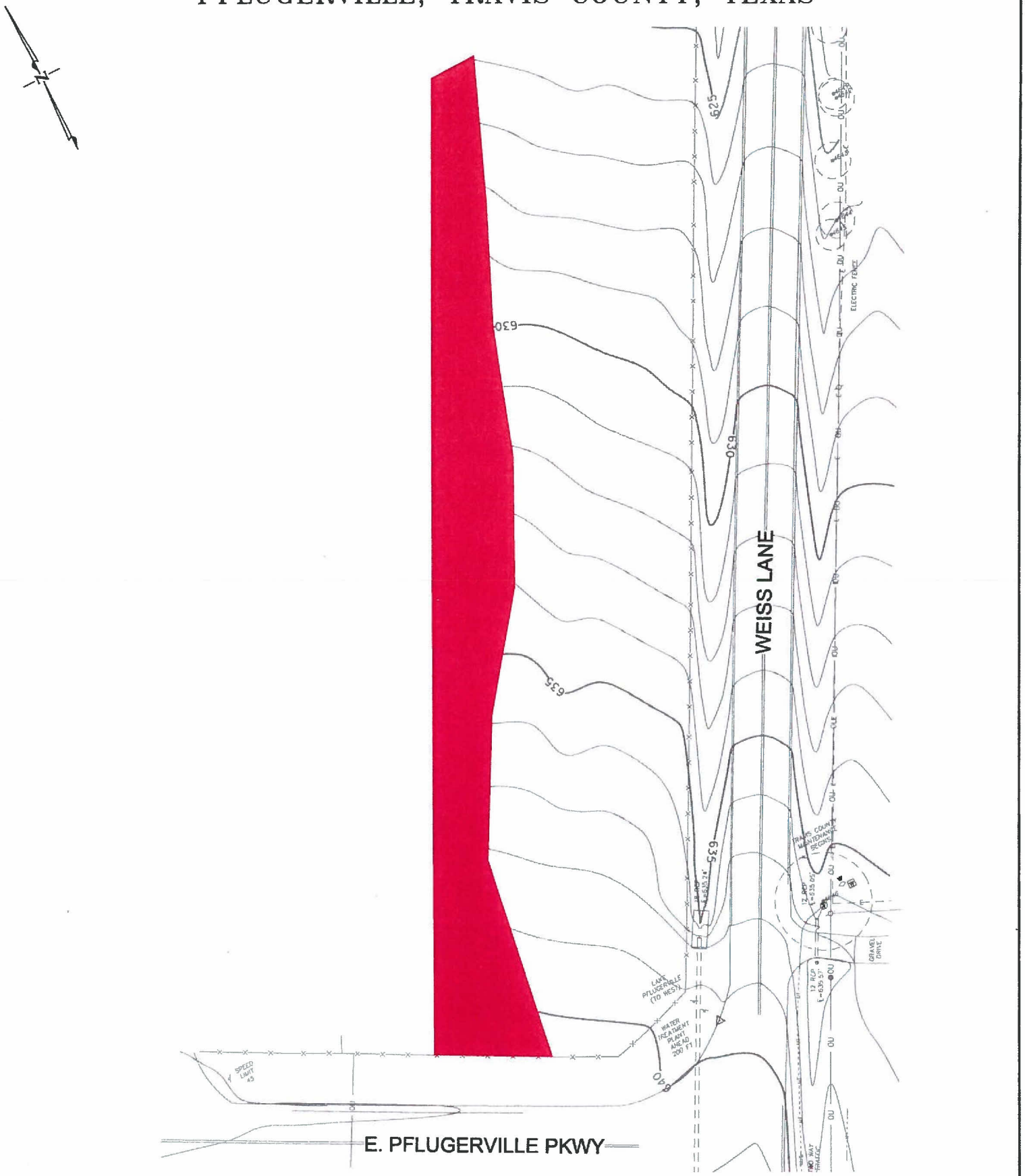
WEISS LANE AREA 7 – PROJECT
PFLUGERVILLE, TRAVIS COUNTY, TEXAS



SURVEY AREA NEEDED = 0.0282 ACRE

McGRAY & McGRAY
LAND SURVEYORS, INC.
3301 HANCOCK DRIVE #6
AUSTIN, TEXAS 78731
(512) 451-8591

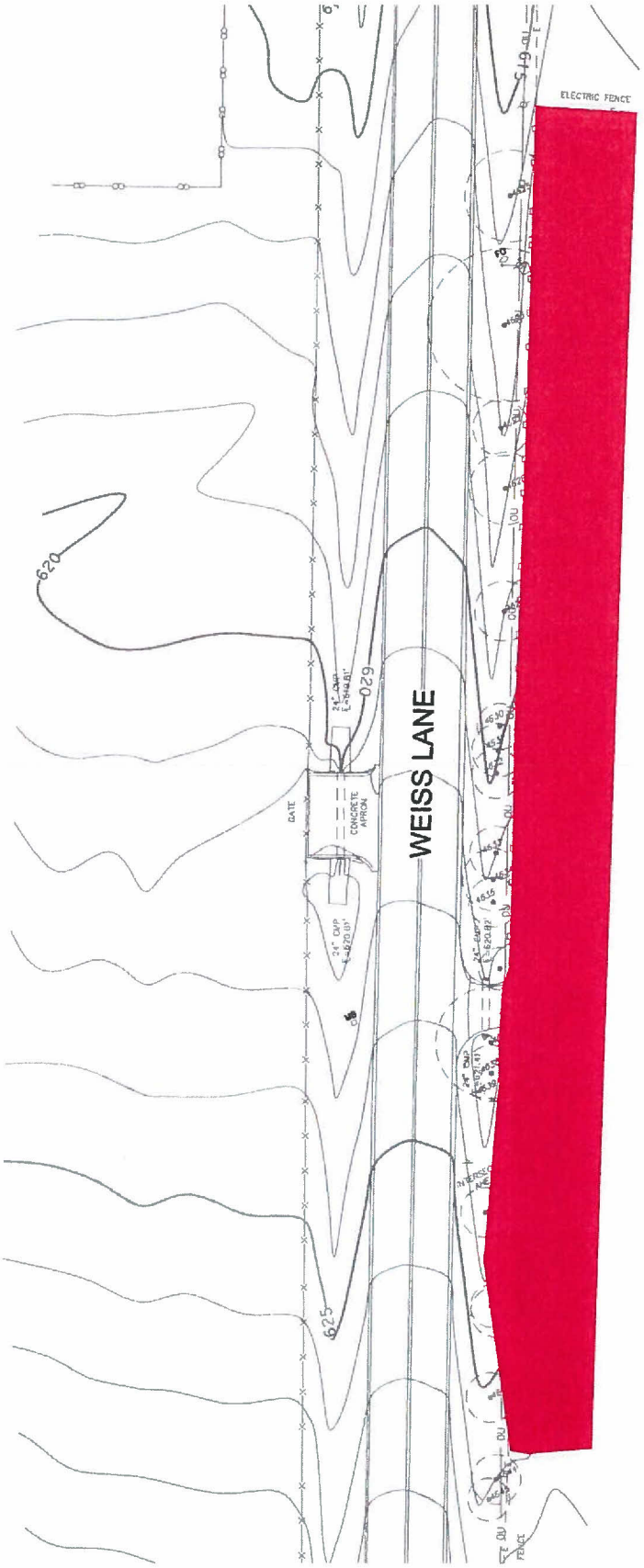
WEISS LANE AREA 8 – PROJECT
PFLUGERVILLE, TRAVIS COUNTY, TEXAS



SURVEY AREA NEEDED = 0.234 ACRE

McGRAY & McGRAY
LAND SURVEYORS, INC.
3301 HANCOCK DRIVE #6
AUSTIN, TEXAS 78731
(512) 451–8591

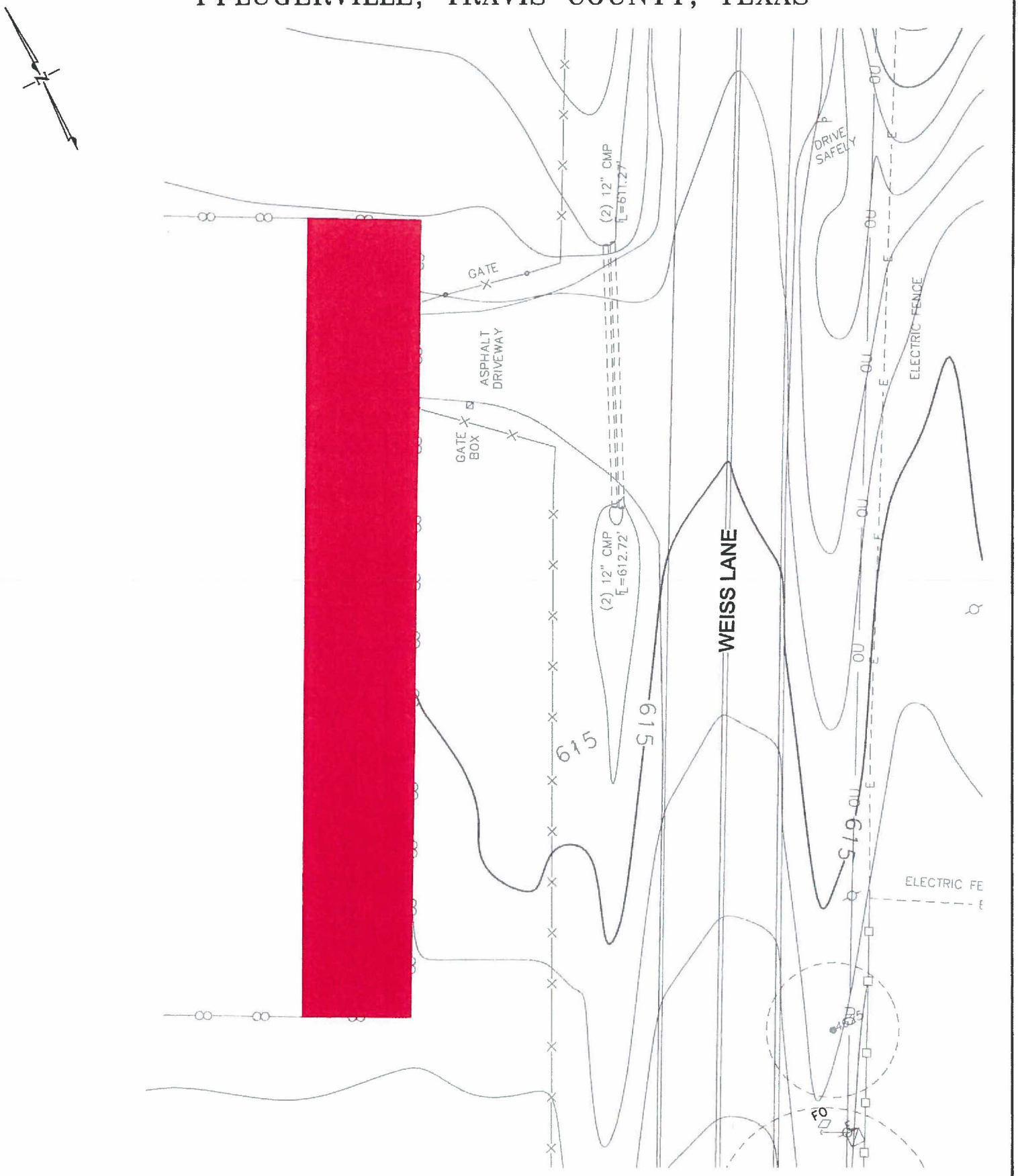
WEISS LANE AREA 9 – PROJECT
PFLUGERVILLE, TRAVIS COUNTY, TEXAS



SURVEY AREA NEEDED = 0.249 ACRE

McGRAY & McGRAY
LAND SURVEYORS, INC.
3301 HANCOCK DRIVE #6
AUSTIN, TEXAS 78731
(512) 451-8591

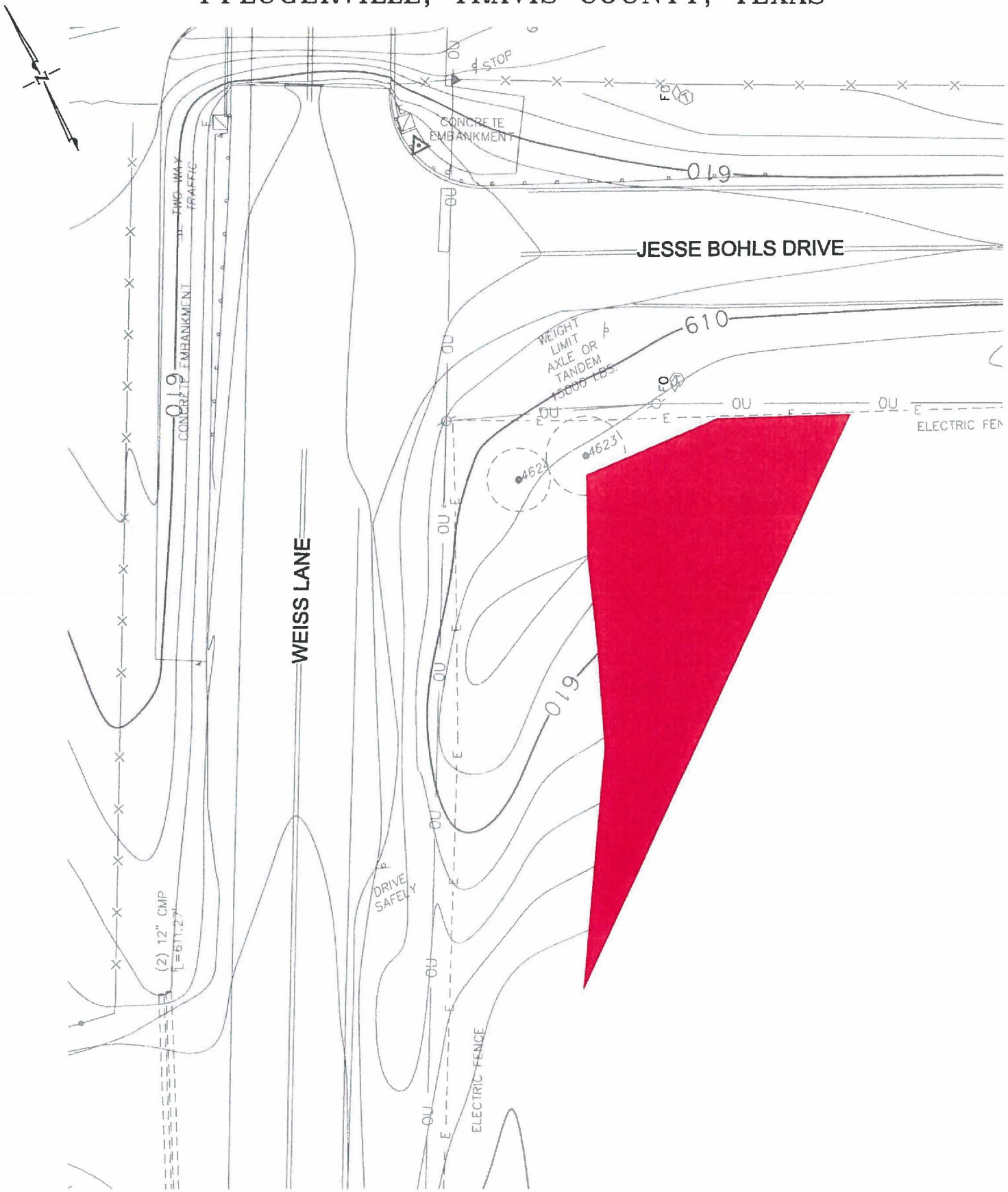
WEISS LANE AREA 10 – PROJECT
PFLUGERVILLE, TRAVIS COUNTY, TEXAS



SURVEY AREA NEEDED = 0.0764 ACRE

McGRAY & McGRAY
LAND SURVEYORS, INC.
3301 HANCOCK DRIVE #6
AUSTIN, TEXAS 78731
(512) 451-8591

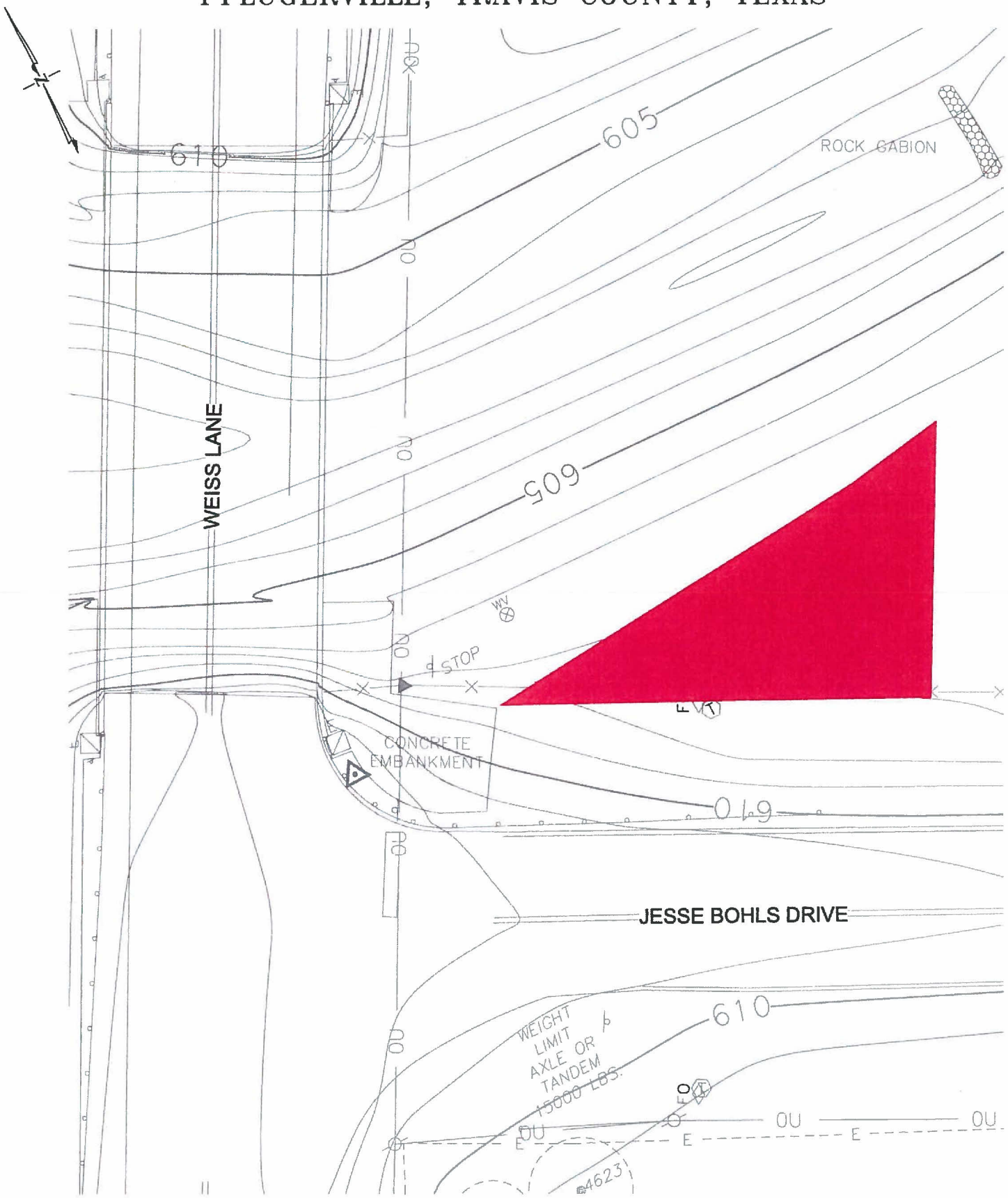
WEISS LANE AREA 11 – PROJECT
PFLUGERVILLE, TRAVIS COUNTY, TEXAS



SURVEY AREA NEEDED = 0.0553 ACRE

McGRAY & McGRAY
LAND SURVEYORS, INC.
3301 HANCOCK DRIVE #6
AUSTIN, TEXAS 78731
(512) 451-8591

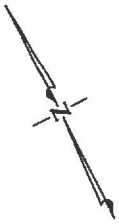
WEISS LANE AREA 12 – PROJECT
PFLUGERVILLE, TRAVIS COUNTY, TEXAS

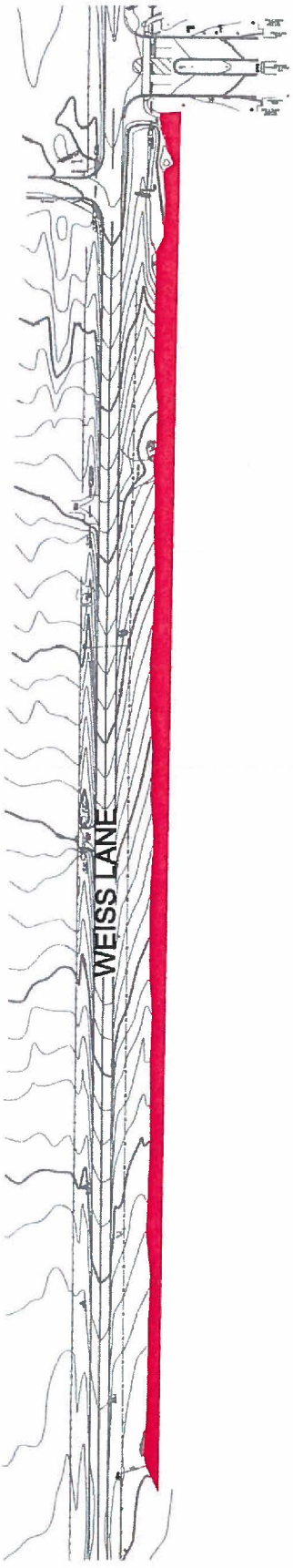


SURVEY AREA NEEDED = 0.0271 ACRE

McGRAY & McGRAY
LAND SURVEYORS, INC.
3301 HANCOCK DRIVE #6
AUSTIN, TEXAS 78731
(512) 451-8591

WEISS LANE AREA 13 – PROJECT
PFLUGERVILLE, TRAVIS COUNTY, TEXAS

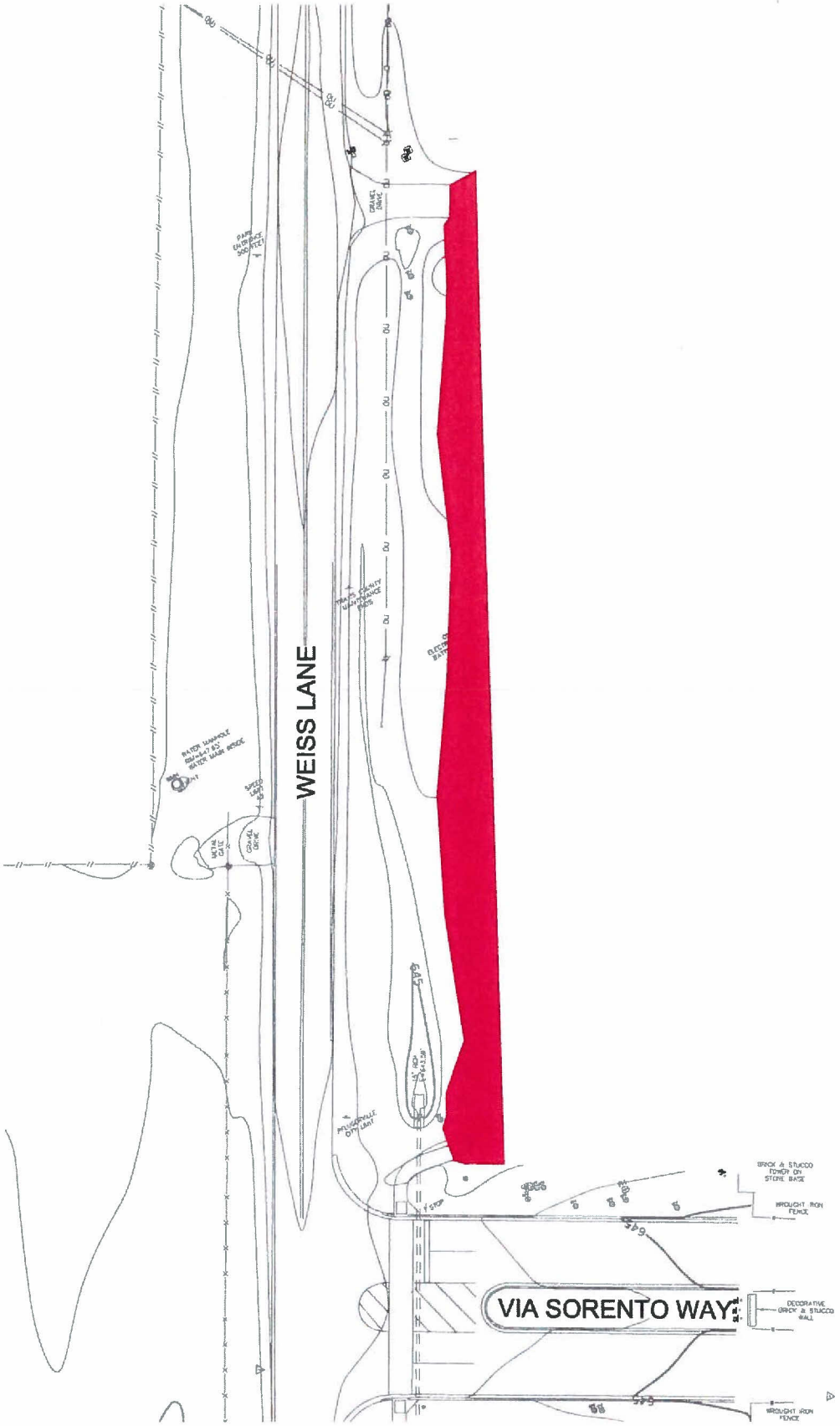




SURVEY AREA NEEDED = 0.6761 ACRE

McGRAY & McGRAY
LAND SURVEYORS, INC.
3301 HANCOCK DRIVE #6
AUSTIN, TEXAS 78731
(512) 451-8591

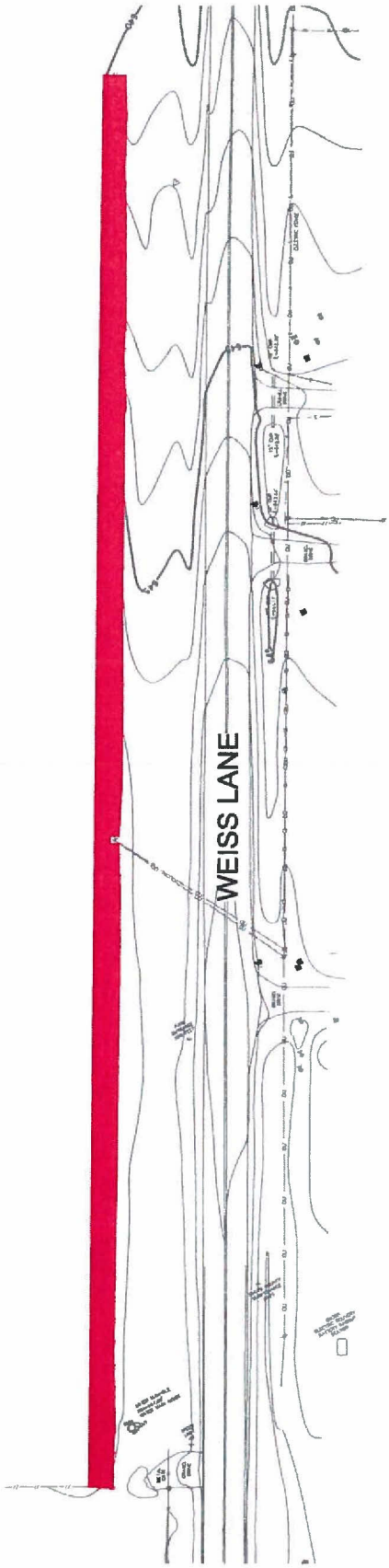
WEISS LANE AREA 14 – PROJECT
PFLUGERVILLE, TRAVIS COUNTY, TEXAS



SURVEY AREA NEEDED = 0.1468 ACRE

McGRAY & McGRAY
LAND SURVEYORS, INC.
3301 HANCOCK DRIVE #6
AUSTIN, TEXAS 78731
(512) 451-8591

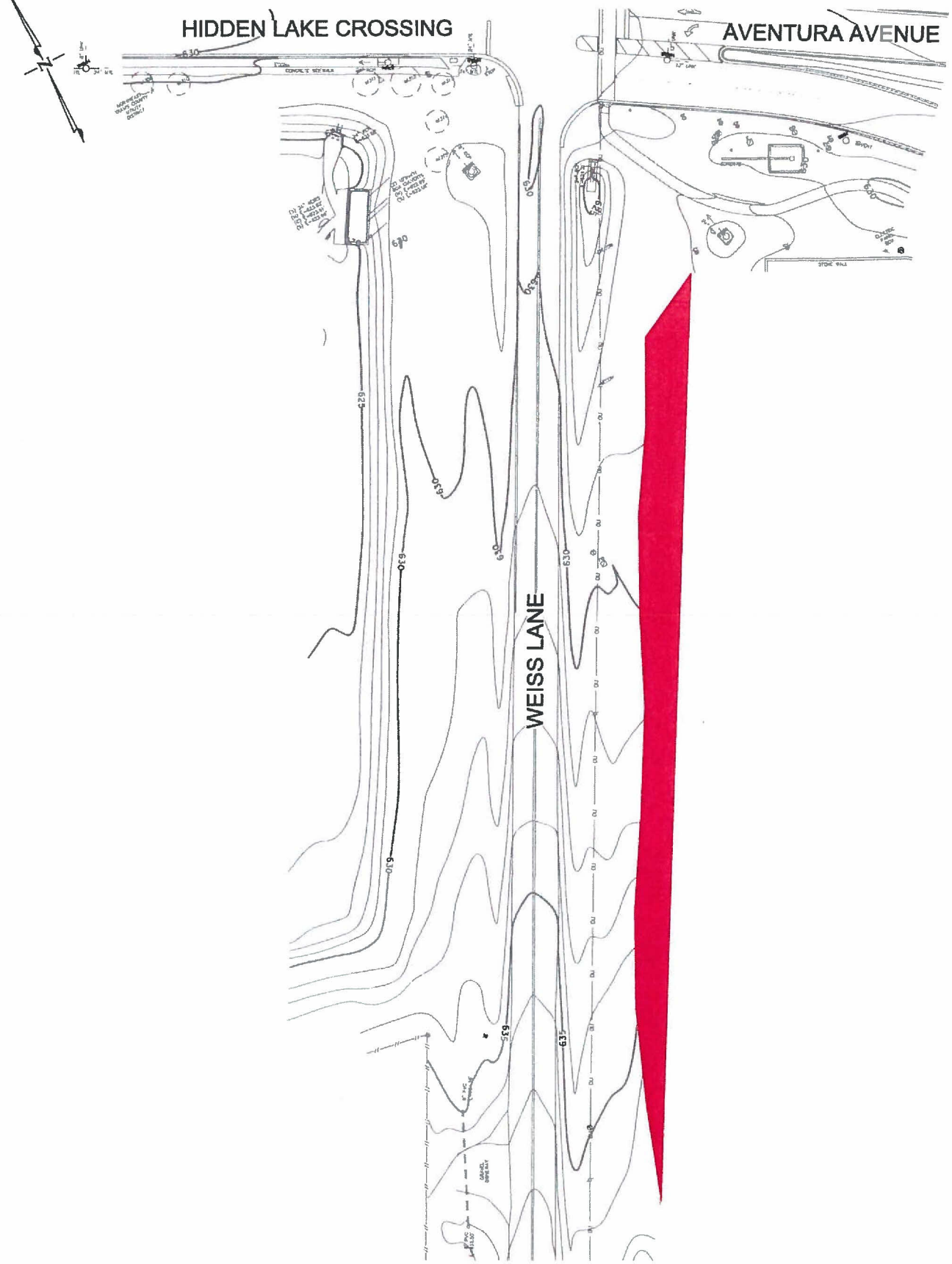
WEISS LANE AREA 15 – PROJECT
PFLUGERVILLE, TRAVIS COUNTY, TEXAS



SURVEY AREA NEEDED = 0.2337 ACRE

McGRAY & McGRAY
LAND SURVEYORS, INC.
3301 HANCOCK DRIVE #6
AUSTIN, TEXAS 78731
(512) 451-8591

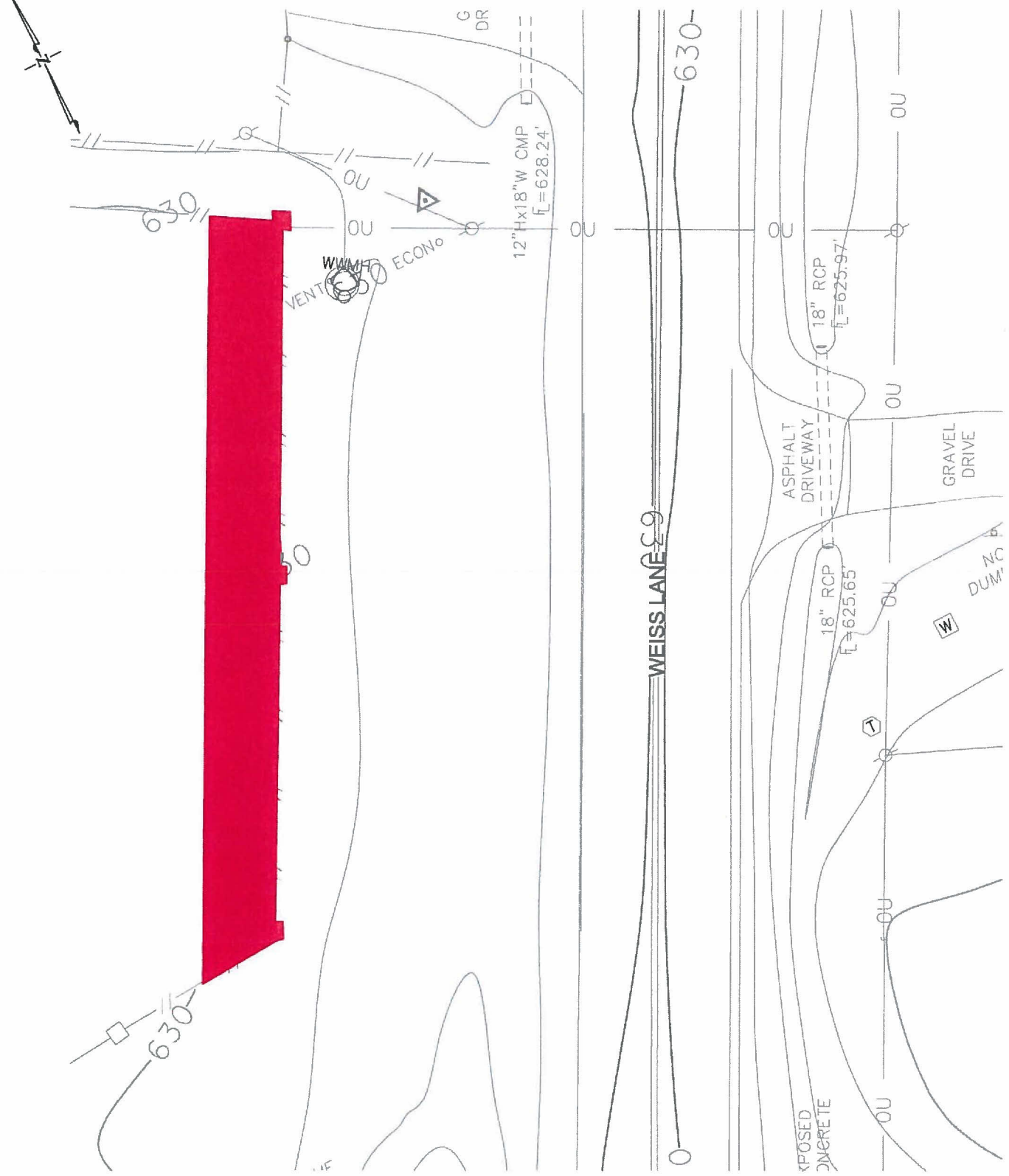
WEISS LANE AREA 16 – PROJECT
PFLUGERVILLE, TRAVIS COUNTY, TEXAS



SURVEY AREA NEEDED = 0.1879 ACRE

McGRAY & McGRAY
LAND SURVEYORS, INC.
3301 HANCOCK DRIVE #6
AUSTIN, TEXAS 78731
(512) 451-8591

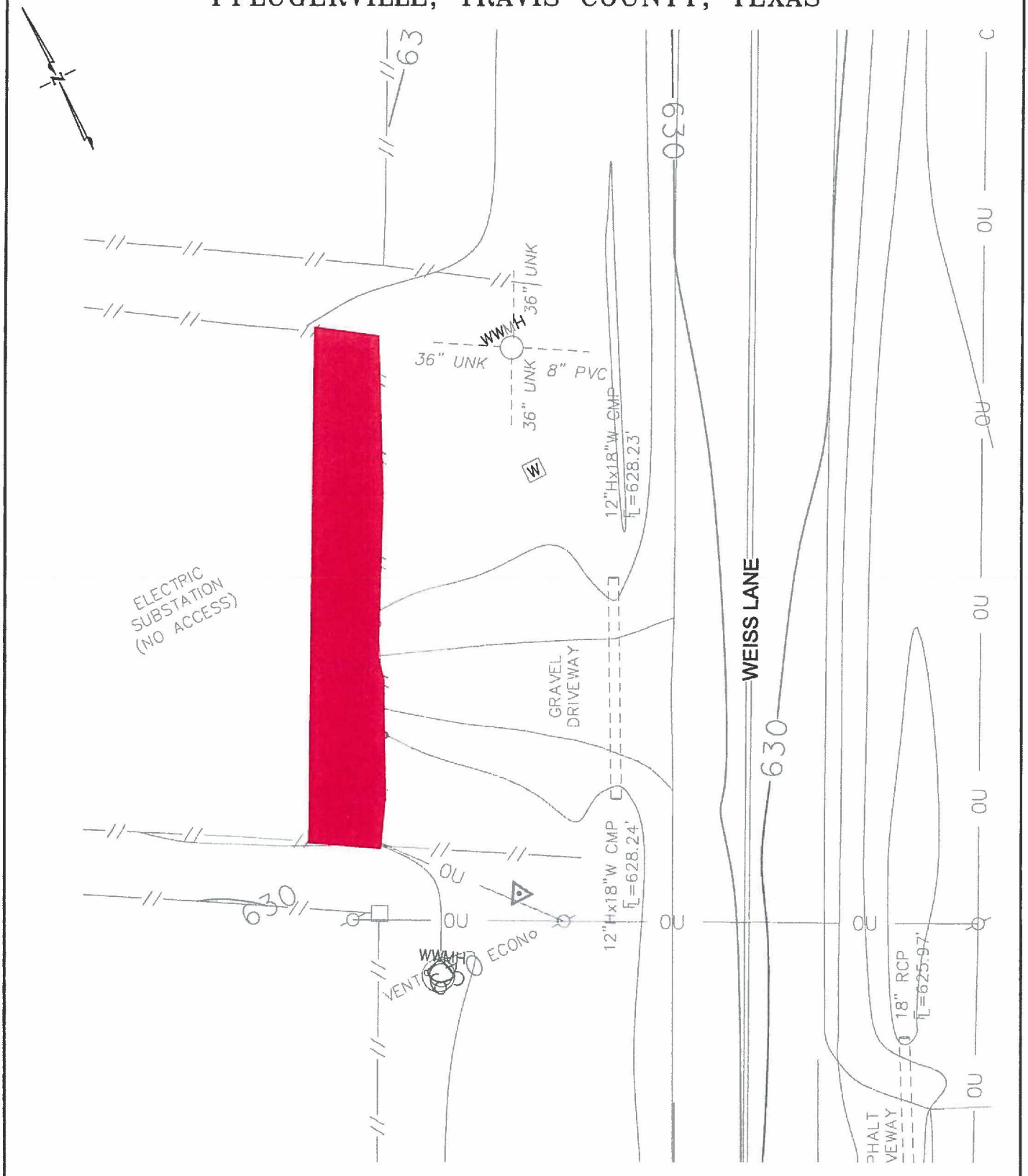
WEISS LANE AREA 17 – PROJECT
PFLUGERVILLE, TRAVIS COUNTY, TEXAS



SURVEY AREA NEEDED = 0.0257 ACRE

McGRAY & McGRAY
LAND SURVEYORS, INC.
3301 HANCOCK DRIVE #6
AUSTIN, TEXAS 78731
(512) 451-8591

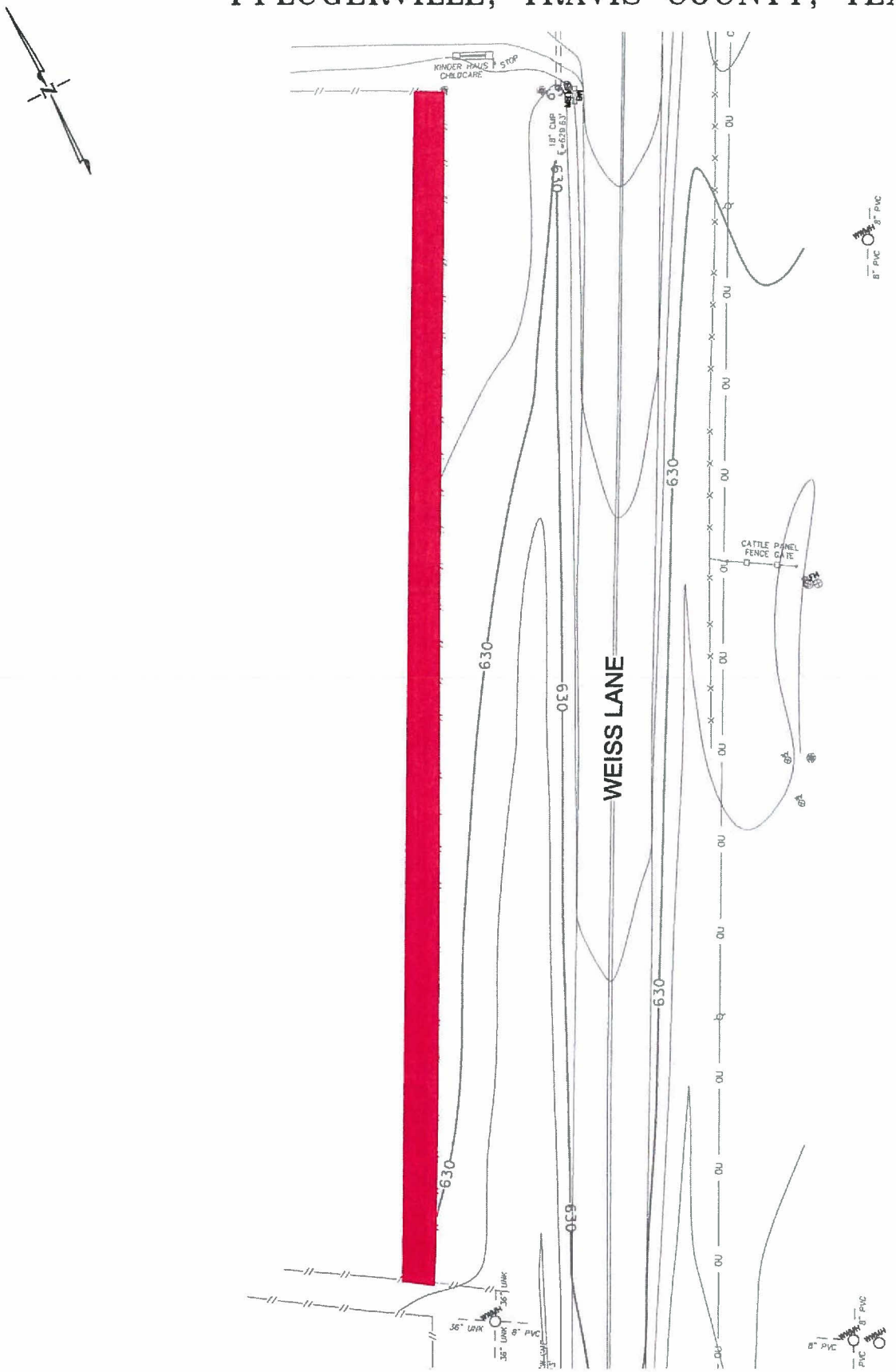
WEISS LANE AREA 18 – PROJECT
PFLUGERVILLE, TRAVIS COUNTY, TEXAS



SURVEY AREA NEEDED = 0.0174 ACRE

McGRAY & McGRAY
LAND SURVEYORS, INC.
3301 HANCOCK DRIVE #6
AUSTIN, TEXAS 78731
(512) 451-8591

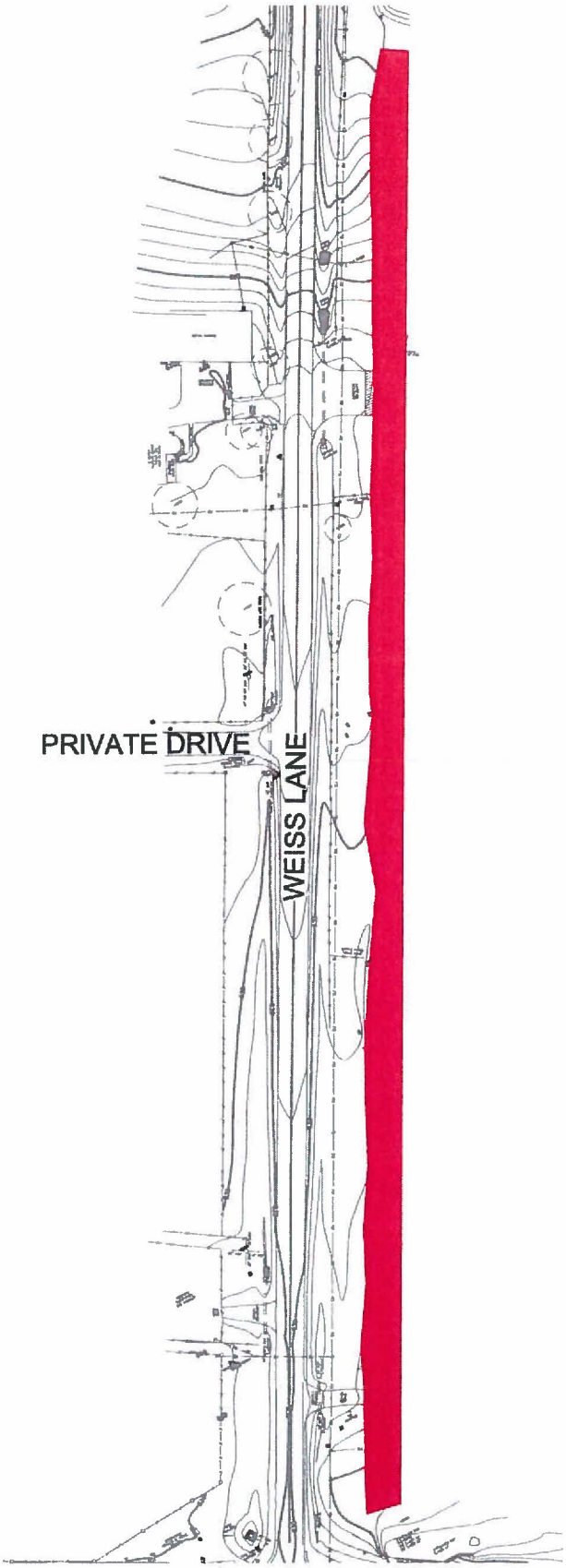
WEISS LANE AREA 19 – PROJECT
PFLUGERVILLE, TRAVIS COUNTY, TEXAS



SURVEY AREA NEEDED = 0.0834 ACRE

McGRAY & McGRAY
LAND SURVEYORS, INC.
3301 HANCOCK DRIVE #6
AUSTIN, TEXAS 78731
(512) 451–8591

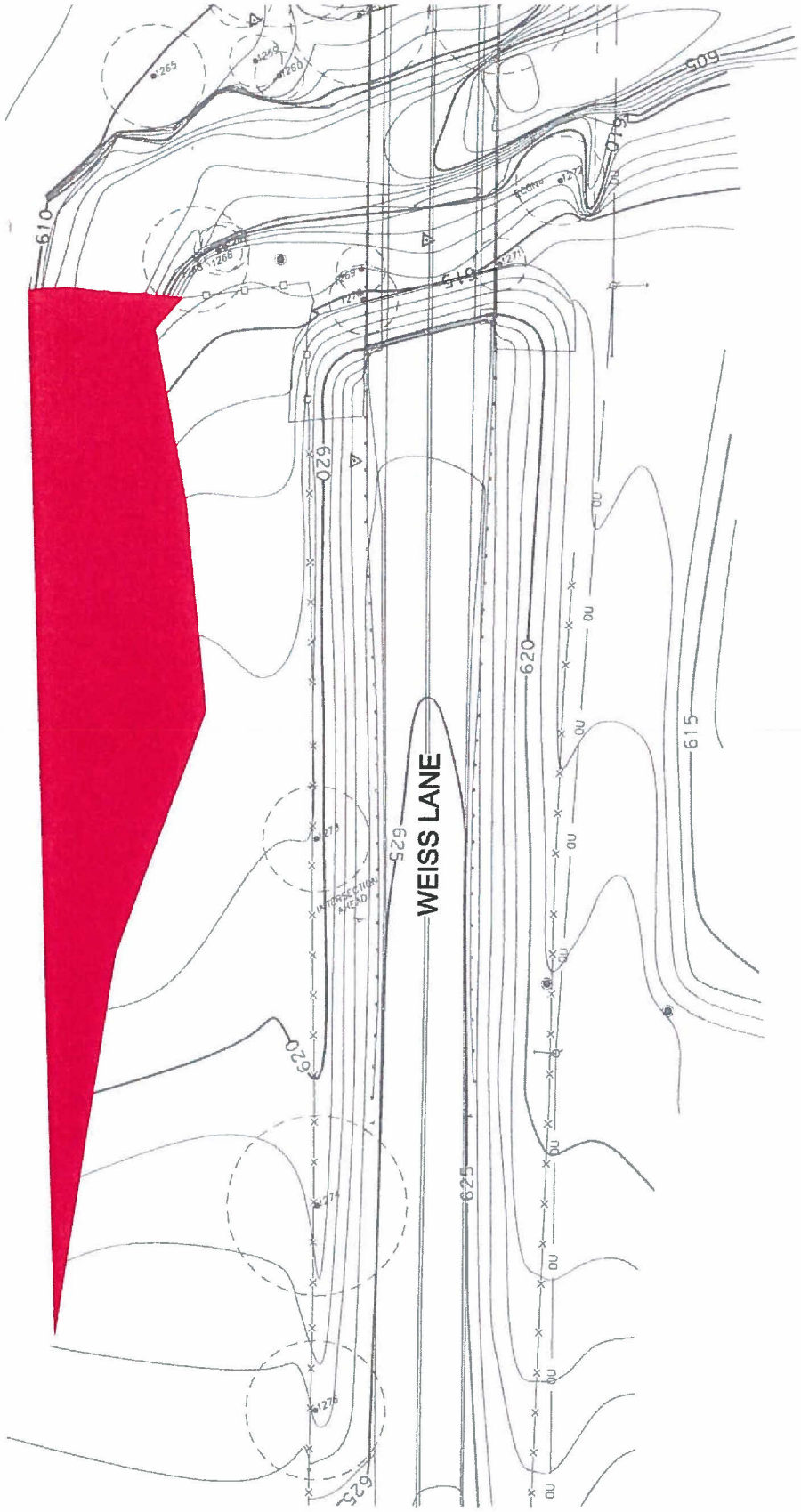
WEISS LANE AREA 20 – PROJECT
PFLUGERVILLE, TRAVIS COUNTY, TEXAS



SURVEY AREA NEEDED = 0.7382 ACRE

McGRAY & McGRAY
LAND SURVEYORS, INC.
3301 HANCOCK DRIVE #6
AUSTIN, TEXAS 78731
(512) 451-8591

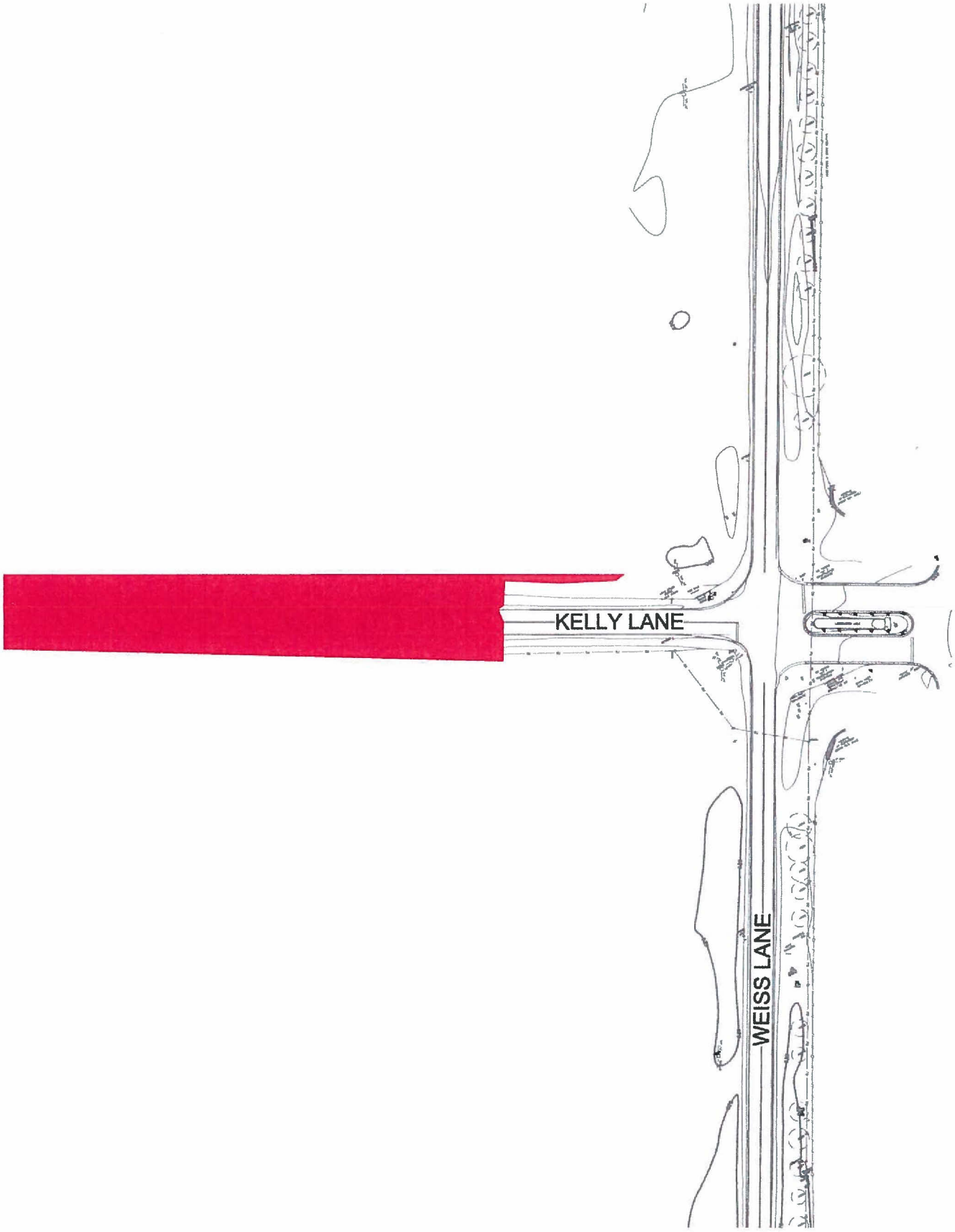
WEISS LANE AREA 21 – PROJECT
PFLUGERVILLE, TRAVIS COUNTY, TEXAS



SURVEY AREA NEEDED = 0.147 ACRE

McGRAY & McGRAY
LAND SURVEYORS, INC.
3301 HANCOCK DRIVE #6
AUSTIN, TEXAS 78731
(512) 451-8591

WEISS LANE AREA 22 – PROJECT
PFLUGERVILLE, TRAVIS COUNTY, TEXAS



SURVEY AREA NEEDED = 0.147 ACRE

McGRAY & McGRAY
LAND SURVEYORS, INC.
3301 HANCOCK DRIVE #6
AUSTIN, TEXAS 78731
(512) 451–8591

Rodriguez Engineering Laboratories

Weiss Lane Roadway Improvements
Additional work
Pflugerville and Travis County, Texas

SCOPE OF WORK

It is our understanding from information provided by LJA Engineering, Inc. (Design Engineer) that the proposed Weiss Lane project will consist of the reconstruction of Weiss Lane from East Pecan Street to Cele Road. The project consists of design and construction of a new pavement structure, drainage, and utility improvements. This project is comprised of approximately 4,300 linear feet within Pflugerville, Texas, and 11,700 linear feet within Travis County, Texas.

The roadway project will be an ultimate 4 lane divided roadway with 4'-wide shoulders constructed west of the exiting. There will also be a 10' shared used path on the west side of the roadway. The proposed road is expected to be constructed as a flexible pavement structure. Exploratory borings will be included for 4 bridges approximately 80 feet and 300 feet in length.

The scope of work for the additional geotechnical investigation to be performed by Rodriguez Engineering Laboratories at the above referenced project consists of four pavement borings. Care must be taken during construction to be sure that if material differs from the material encountered in our investigation more testing must be performed and reevaluation of the recommendations may be necessary. Bore holes will need to be 20 to 25 feet in order to determine PVR values. The scope of work for the geotechnical investigation includes the following:

FIELD SAMPLE COLLECTION:

1. Rodriguez Engineering Laboratories will contact Texas One Call services for utilities location prior to starting any drilling. Selecting boring locations, staking, and legal access to the boring locations will be handled by the Design Engineer. Clearing will be charged at cost of materials plus labor if needed. Borings may need to be extended in cut areas; this will be based on survey data and will need to be determined by the Design Engineer prior to drilling.

2. Obtain soil samples from the areas to be evaluated. Four borings to a depth of 10 feet, and four borings to a depth of 60 feet were proposed as follows:

    2.1. Drill four borings to a depth of 10 feet along the existing Weiss Lane alignment. A boring log will be recorded for each of these borings to document material field description and thickness of every soil strata.
    2.1.1 Obtain soil samples to determine material properties. Approximately 2 soil samples per every 5 feet of drilling or one soil sample per each type of material.
    2.1.2 The soil samples will be properly sealed and protected from moisture evaporation.
    2.1.3 All borings will be properly backfilled after completion.

    2.3 Drill four borings to a depth of 60 feet for proposed bridge foundations. A boring log will be recorded to document material field description and thickness of every soil strata.
    2.2.1 Obtain soil samples to determine material properties. Approximately two soil samples per every 5 feet of drilling or one soil sample per each type of material.
    2.1.2 Perform a Texas Cone Penetrometer Test (Tex-132-E) per every 5-feet of drilling.
    2.1.3 The soil samples will be properly sealed and protected from moisture evaporation.
    2.1.4 The borings will be properly backfilled after completion.

13809 Turbine Drive, Austin, TX 78728
(512) 251-4454 Fax (512) 251-1380
E-mail: rodriguezlab@aol.com
Registered Texas Engineering Firm F-1563

Rodriguez
Engineering
Laboratories

Weiss Lane Roadway Improvements
Additional work
Pflugerville and Travis County, Texas

SCOPE OF WORK

LABORATORY TESTING:

1. A testing program will be conducted on the soil and subgrade samples to aid in classification and evaluation of the engineering properties required for analysis.

2. Each of the estimated 48 soil samples will be tested for the following properties:
   2.1. Determining Moisture Content of Soil Materials (Tex-103-E)
   2.2. Determining Atterberg Limits of Soils (Tex-104, 105, & 106-E)
   2.3. Determining Sieve Analysis of Soils (Tex-110-E)
   2.4. Determining the Amount of Material in Soils Finer than No. 200 Sieve (Tex-111-E)
   2.5. Laboratory Classification of Soils for Engineering Purposes (Tex-142-E)

3. Subgrade samples will be obtained from the project to perform the following tests:
   3.1. Determining Lime Stabilization Effectiveness by pH Method (Tex-121-E, Part III), 1 tests
   3.2. Determining Water Soluble Sulfate Content (Tex-145-E), 4 tests
   3.3. Unconfined Compressive Strength of Soils (ASTM D2166), 4 tests
   3.4. Hydrometer Analysis (ASTM D-422) for Scour Analysis, 4 tests

GEOTECHNICAL REPORT:

1. The additional geotechnical investigation report will be combined with the original report.

13809 Turbine Drive, Austin, TX 78728
(512) 251-4454 Fax (512) 251-1380
E-mail: rodriguezlab@aol.com
Registered Texas Engineering Firm F-1563

Rodriguez Engineering Laboratories

Weiss Lane Roadway Improvements
Additional work
Pflugerville and Travis County, Texas
Estimate for Geotechnical Investigation

	Estimated Quantity	Units	Cost/Unit		Total
Field Coordination					
Project Manager	2	hr @	$ 106.00	/hr	= $ 212.00
Senior Engineering Tech (Utility Clearance and Coordination)	8	hr @	$ 56.00	/hr	= $ 448.00
Field Operation					
Mobilization / Demobilization (Within 50 miles of REL Austin)	4	ea @	$ 250.00	/ea	= $ 1,000.00
Soil Drilling (Proposed Pavement):					
Proposed Roadway, 15,620 LF (4 Borings @ 10 ft)	40	lf @	$ 14.00	/ea	= $ 560.00
Patching Bores	4	ea @	$ 25.00	/ea	= $ 100.00
Soil Drilling (Proposed Bridges):					
Proposed Bridges, 380 LF, Soil Drilling (4 Borings @ 25 ft)	100	lf @	$ 14.00	/ea	= $ 1,400.00
Proposed Bridges, 380 LF, Rock Coring (4 Borings @ 35 ft)	140	lf @	$ 19.00	/ea	= $ 2,660.00
Texas Cone Penetrometer (Tex-132-E)	48	ea @	$ 45.00	/ea	= $ 2,160.00
Patching Bores	4	ea @	$ 25.00	/ea	= $ 100.00
Laboratory					
Soil Testing (Pavement & Foundation):					
Soil-Lime Testing (Tex-121-E)	1	ea @	$ 250.00	/ea	= $ 250.00
Soil Sulfate Content Testing (Tex-145-E)	4	ea @	$ 95.00	/ea	= $ 380.00
Unconfined Compressive Strength of Soils (ASTM D2166)	4	ea @	$ 75.00	/ea	= $ 300.00
Hydrometer Analysis (ASTM D-422), for Scour Analysis	4	ea @	$ 104.00	/ea	= $ 416.00
Moisture Contents (Tex-103-E)	48	ea @	$ 18.00	/ea	= $ 864.00
Atterberg Limits (Tex-104, 105, & 106-E)	48	ea @	$ 65.00	/ea	= $ 3,120.00
Washed Sieve Analysis & Classification (Tex-110 & 142-E)	48	ea @	$ 65.00	/ea	= $ 3,120.00
Geotechnical Analysis and Report					
Project Engineer	8	hr @	$ 106.00	/hr	= $ 848.00
Senior Engineering Tech	8	hr @	$ 56.00	/hr	= $ 448.00
Secretary/Clerical	8	hr @	$ 48.00	/hr	= $ 384.00

Total Lump Sum Fee = $ 18,770.00

NOTE: If clearance for access to the borings is needed, it will be charged separately. The above cost estimate does not include recommendations for flexible pavement sections. These will be incorporated as part of the reporting on the original estimate. The cost estimate will need to be revised if pavement recommendaions are needed seperately. The estimate does not include any permits or fees charged by the city or county. All boring locations will need to be determined by the Engineer. Deeper borings will need to be added in order to determine PVR.

13809 Turbine Drive, Austin, TX 78728
(512) 251-4454 Fax (512) 251-1380
E-mail: rodriguezlab@aol.com
Registered Texas Engineering Firm F-1563

ALTURA SOLUTIONS, L.P.
Accessibility & Compliance Consultants
(512) 410-7059
818 Morrow St, Austin, TX 78757

April 7, 2015

Kenneth G. Schrock, PE
Vice President
LJA Engineering, Inc.
5316 Highway 290 West, Suite 150
Austin, TX 78735

RE: TAS Proposal for the *Weiss Lane* Project

Dear Kenneth,

This is a proposal for the project registration, plan review, and inspection of the ***Weiss Lane*** Project in Pflugerville, Texas for compliance with Chapter 469 of the Texas Government Code, State of Texas Architectural Barriers Act, and the Texas Accessibility Standards (TAS).

Altura Solutions proposes to perform the project registration with TDLR, perform the plan review, and inspection for compliance with the TAS.

Feel free to contact me at (512) 410-7059 or at jel@alturalp.com to answer any questions or discuss details of the proposal. Thank you for considering Altura Solutions, L.P. to meet your accessibility consulting needs. We look forward to working with you on the project.

Sincerely,

Jesús Lardizábal,
R.A.S. 1051
President

PROJECT SCOPE AND DESCRIPTION

Weiss Lane road reconstruction from Pecan to Kelly Lane. There will be a 10' shared use path constructed on the west side of the roadway and 6' sidewalk on the east side. The length of the project appears to be approximately 3 miles.

SCOPE OF WORK

Altura Solutions proposes to perform the following services in compliance with the Chapter 469 of the Texas Government Code, State of Texas Architectural Barriers Act to verify compliance with the Texas Accessibility Standards (TAS):

- Register the project with TDLR
- Perform plan review of the project construction documents (as provided by client)
- Perform the final inspection of the project upon completion

EXCLUSIONS

The proposal excludes services to determine compliance with other federal, state or local accessibility requirements and accessibility requirements of building and housing codes such as the International Building Code (IBC).

SCHEDULE

Altura Solutions will perform the project registration within one working day of receiving the required documents and registration fee.

Altura Solutions will perform the plan review and provide a report of findings within ten working days after receiving all required documents.

Altura Solutions will perform the final inspection and deliver the Inspection Report within ten working days of receiving access to the facility.

DELIVERABLES

The following items will be produced and delivered by Altura Solutions as part of this project:

- Altura Solutions will provide proof of project registration via the TDLR Proof of Registration Sheet.
- Altura Solutions will provide the Plan Review Report detailing the non-compliant findings of the facility for the Texas Accessibility Standards (TAS).
- Altura Solutions will provide the Inspection Report detailing the findings of the final inspection of the facility.

CONSULTING FEE AND INVOICING

The following fees are proposed for the services outlined in this proposal:

- Project Registration $175.00
- TAS Plan Review Report $825.00
- TAS Inspection Report $1,500.00

The total proposed consulting fee under this agreement is two thousand five hundred dollars and zero cents ($2,500.00).

To initiate services, the following items must be provided:

- Signed agreement
- Completed TDLR forms
- A check for $1,000 for the Project Registration and Plan Review fees should be made out to Altura Solutions, L.P.

The inspection fee includes travel within 90 miles of Austin, TX. Additional travel expenses may be incurred for travel outside of this area. The inspection fee may be paid up front or at the time of inspection. The fees listed above are limited to one final plan review and one subsequent revision, one hour of technical assistance/consulting. Preliminary reviews, plan review revisions, and additional consulting will be considered additional services as outlined below.

ADDITIONAL SERVICES

Altura Solutions, L.P. provides hourly technical assistance for any services outside of the deliverables listed above. Technical Assistance services include attending meetings with project officials, preliminary plan reviews, preliminary inspections, attending on-site meetings, and assisting with potential design solutions. The consulting rate is $175.00 per hour.

Altura Solutions, L.P.	**Client**
By: _____	By: _____
Print Name: Jesus Lardizabal	Print Name: _____
Title: President	Title: _____
Date: _____	Date: _____

EXHIBIT C
FEE SCHEDULE - Supplemental Design Services for PS&E, Bidding & Construction Phase Services - LUMP SUM
PROJECT NAME: Weiss Lane
PRIME PROVIDER NAME: LJA Engineering, Inc.

Date: 12/8/2015

WEISS LANE PROJECT

TASK DESCRIPTION	Senior Project Manager	Senior Engineer/ Planner	Project Engineer	E.I.T.	Senior Engineering Tech	CADD Operator	GIS Analyst/ Cartography	GIS Technician	Admin	Total	Number of Sheets	Hours/Sheet
Project Management												
Additional City Coordination Meetings (5)	10.0		10.0	10.0						30.0	N/A	N/A
Additional Sub Coordination Meetings	4.0		4.0							8.0	N/A	N/A
Additional Design Team Meetings (12)	12.0		12.0	12.0						36.0	N/A	N/A
Additional Monthly Progress Reports	6.0								6.0	12.0	N/A	N/A
Additional Monthly Invoices	6.0								6.0	12.0	N/A	N/A
Set Up and Process Supplemental Agreements	8.0	8.0							8.0	24.0	N/A	N/A
Update Schedule	2.0	4.0								6.0	N/A	N/A
HOURS SUB-TOTALS	48.0	12.0	26.0	22.0	0.0	0.0	0.0	0.0	20.0	128.0		
LABOR RATE PER HOUR	$215	$175	$145	$130	$110	$80	$110	$95	$70			
SUBTOTAL	$10,320	$2,100	$3,770	$2,860	$0	$0	$0	$0	$1,400	$20,450		

TASK DESCRIPTION	Senior Project Manager	Senior Engineer/ Planner	Project Engineer	E.I.T.	Senior Engineering Tech	CADD Operator	GIS Analyst/ Cartography	GIS Technician	Admin	Total	Number of Sheets	Hours/Sheet
Survey												
Survey - **See McGray & McGray Scope & Fee**											N/A	N/A

TASK DESCRIPTION	Senior Project Manager	Senior Engineer/ Planner	Project Engineer	E.I.T.	Senior Engineering Tech	CADD Operator	GIS Analyst/ Cartography	GIS Technician	Admin	Total	Number of Sheets	Hours/Sheet
Specialty Services												
TDLR Review - **See Altura Scope & Fee**											N/A	N/A
GeoTch Engineering - **See REL Scope & Fee**											N/A	N/A

TASK DESCRIPTION	Senior Project Manager	Senior Engineer/ Planner	Project Engineer	E.I.T.	Senior Engineering Tech	CADD Operator	GIS Analyst/ Cartography	GIS Technician	Admin	Total	Number of Sheets	Hours/Sheet
PS&E Roadway												
Design and label Shared Use Path			4.0	16.0	16.0	16.0				52.0	N/A	N/A
Design and Sheets for Turn bays at E. Pflugerville & Kelly Ln			16.0	40.0	24.0	40.0				120.0	6.0	20.0
SB Roadway Design and Sheets			24.0	80.0		80.0				184.0	14.0	13.1
Additional Driveway Design			8.0	40.0		40.0				88.0	N/A	N/A
Additional Cross Section Work			8.0	16.0	24.0					48.0	N/A	N/A
Additional Earth Work			2.0	8.0	8.0					18.0	1.0	18.0
Additional Quantity Summaries			1.0	8.0		4.0				13.0	1.0	13.0
Additional Standards			1.0	4.0		4.0				9.0	N/A	N/A
HOURS SUB-TOTALS	0.0	0.0	64.0	212.0	72.0	184.0	0.0	0.0	0.0	532.0		
LABOR RATE PER HOUR	$215	$175	$145	$130	$110	$80	$110	$95	$70			
SUBTOTAL	$0	$0	$9,280	$27,560	$7,920	$14,720	$0	$0	$0	$59,480		

WEISS LANE - LUMP SUM FEE ESTIMATE

TASK DESCRIPTION	Senior Project Manager	Senior Engineer/ Planner	Project Engineer	E.I.T.	Senior Engineering Tech	CADD Operator	GIS Analyst/ Cartography	GIS Technician	Admin	Total	Number of Sheets	Hours/Sheet
PS&E Drainage												
Additional Internal Drainage Areas			8.0	40.0		40.0				88.0	14.0	6.3
Design and create GEOPAK models			4.0	40.0						44.0	N/A	N/A
Storm Sewer Plan Sheets			16.0	80.0		80.0				176.0	14.0	12.6
Storm Sewer Profile Sheets			8.0	40.0		40.0				88.0	14.0	6.3
Hydraulic Data Sheets			4.0	16.0		16.0				36.0	8.0	4.5
Additional Standards			1.0	4.0		4.0				9.0	N/A	N/A
Calculate Additional Runoff for Mitigation Report			1.0	8.0		8.0				17.0	N/A	N/A
Determine potential impacts to receiving waters (3 streams)			16.0	24.0						40.0	N/A	N/A
Prepare mitigation findings for documentation			8.0	16.0		16.0				40.0	N/A	N/A
HOURS SUB-TOTALS	0.0	0.0	66.0	268.0	0.0	204.0	0.0	0.0	0.0	538.0		
LABOR RATE PER HOUR	$215	$175	$145	$130	$110	$80	$110	$95	$70			
SUBTOTAL	$0	$0	$9,570	$34,840	$0	$16,320	$0	$0	$0	$60,730		

TASK DESCRIPTION	Senior Project Manager	Senior Engineer/ Planner	Project Engineer	E.I.T.	Senior Engineering Tech	CADD Operator	GIS Analyst/ Cartography	GIS Technician	Admin	Total	Number of Sheets	Hours/Sheet
PS&E Erosion Control												
Additional Erosion Control Design			24.0	40.0		40.0				104.0	N/A	N/A
HOURS SUB-TOTALS	0.0	0.0	24.0	40.0	0.0	40.0	0.0	0.0	0.0	104.0		
LABOR RATE PER HOUR	$215	$175	$145	$130	$110	$80	$110	$95	$70			
SUBTOTAL	$0	$0	$3,480	$5,200	$0	$3,200	$0	$0	$0	$11,880		

TASK DESCRIPTION	Senior Project Manager	Senior Engineer/ Planner	Project Engineer	E.I.T.	Senior Engineering Tech	CADD Operator	GIS Analyst/ Cartography	GIS Technician	Admin	Total	Number of Sheets	Hours/Sheet
PS&E Signage & Pavement Markings												
Additional Signage Design			8.0	24.0		24.0				56.0	N/A	N/A
Additional Pavement Marking Design			8.0	16.0		16.0				40.0	N/A	N/A
HOURS SUB-TOTALS	0.0	0.0	16.0	40.0	0.0	40.0	0.0	0.0	0.0	96.0		
LABOR RATE PER HOUR	$215	$175	$145	$130	$110	$80	$110	$95	$70			
SUBTOTAL	$0	$0	$2,320	$5,200	$0	$3,200	$0	$0	$0	$10,720		

TASK DESCRIPTION	Senior Project Manager	Senior Engineer/ Planner	Project Engineer	E.I.T.	Senior Engineering Tech	CADD Operator	GIS Analyst/ Cartography	GIS Technician	Admin	Total	Number of Sheets	Hours/Sheet
PS&E Traffic Signal Design												
Estimate and Quantity Sheets		8.0	8.0	24.0		24.0				64.0		
General Notes and Specification Data		2.0	4.0	16.0		8.0				30.0		
Plan Sheets		40.0	50.0	200.0		100.0				390.0		
Proposed Traffic Signal Details		10.0	20.0	100.0		50.0				180.0		
Construction Detail Sheets		4.0	8.0	32.0		16.0				60.0		
Coordination and Agency Approval		8.0	24.0							32.0		
HOURS SUB-TOTALS	0.0	72.0	114.0	372.0	0.0	198.0	0.0	0.0	0.0	756.0		
LABOR RATE PER HOUR	$215	$175	$145	$130	$110	$80	$110	$95	$70			
SUBTOTAL	$0	$12,600	$16,530	$48,360	$0	$15,840	$0	$0	$0	$93,330		

WEISS LANE - LUMP SUM FEE ESTIMATE

TASK DESCRIPTION	Senior Project Manager	Senior Engineer/ Planner	Project Engineer	E.I.T.	Senior Engineering Tech	CADD Operator	GIS Analyst/ Cartography	GIS Technician	Admin	Total	Number of Sheets	Hours/Sheet
PS&E Bridge Design												
Bridge Layouts - Unnamed Trib to Unnamed Trib to Wilbarger Ck (80 ft span)												
Bridge Layout	2.0	12.0		40.0	40.0					94.0	1.0	50.0
Typical Section		1.0		4.0	6.0					11.0	1.0	50.0
Bridge Layouts - Unnamed Tributary to Wilbarger Ck (3 - 100 ft spans)												
Bridge Layout	2.0	24.0		40.0	80.0					146.0	1.0	40.0
Typical Section		1.0		4.0	6.0					11.0	1.0	9.0
Bridge Design - Unnamed Trib to Unnamed Trib to Wilbarger Ck (80 ft span)												
Estimated Quantities and Bearing Seat Elevations	1.0	8.0		20.0	20.0					49.0	1.0	39.0
Abutment No. 1 Plan and Elevation	1.0	6.0		14.0	14.0					35.0	1.0	39.0
Abutment No. 2 Plan and Elevation		4.0		10.0	10.0					24.0	1.0	24.0
Abutment Details		4.0		8.0	12.0					24.0	1.0	24.0
Girder Layout	1.0	6.0		12.0	16.0					35.0	1.0	41.0
Slab Plan and Section	1.0	4.0		16.0	8.0					29.0	1.0	35.0
Prestressed Concrete I-Girder Designs	2.0	12.0		16.0						30.0	1.0	29.0
Bridge Design - Unnamed Tributary to Wilbarger Ck (3 - 100 ft spans)												
Estimated Quantities and Bearing Seat Elevations	1.0	10.0		24.0	40.0					75.0	1.0	43.0
Abutment No. 1 Plan and Elevation	1.0	6.0		16.0	24.0					47.0	1.0	39.0
Abutment No. 4 Plan and Elevation		4.0		16.0	16.0					36.0	1.0	24.0
Abutment Details		4.0		16.0	16.0					36.0	1.0	24.0
Interior Bent No. 2 Plan and Elevation	1.0	6.0		32.0	32.0					71.0	1.0	39.0
Interior Bent No. 3 Plan and Elevation		4.0		24.0	24.0					52.0	1.0	28.0
Girder Layout	1.0	4.0		40.0	24.0					69.0	1.0	49.0
Slab Plan and Section	1.0	6.0		28.0	28.0					63.0	1.0	41.0
Prestressed Concrete I-Girder Designs	1.0	6.0		40.0	40.0					87.0	1.0	35.0
TxDOT Bridge Standard Details	1.0	2.0		16.0	16.0					35.0	15.0	1.3
HOURS SUB-TOTALS	17.0	134.0	0.0	436.0	472.0	0.0	0.0	0.0	0.0	1059.0		
LABOR RATE PER HOUR	$215	$175	$145	$130	$110	$80	$110	$95	$70			
SUBTOTAL	$3,655	$23,450	$0	$56,680	$51,920	$0	$0	$0	$0	$135,705		

TASK DESCRIPTION	Senior Project Manager	Senior Engineer/ Planner	Project Engineer	E.I.T.	Senior Engineering Tech	CADD Operator	GIS Analyst/ Cartography	GIS Technician	Admin	Total	Number of Sheets	Hours/Sheet
Illumination												
Illumination Layouts	4.0	16.0	16.0	60.0	8.0	60.0				164.0	15.0	10.9
Electrical Details		4.0	8.0	16.0		16.0				44.0	5.0	8.8
Light Pattern Anlysis using AGI 32 software			4.0	8.0						12.0	N/A	N/A
Standards			2.0	8.0		8.0				18.0	N/A	N/A
Coordination with electric provider		16.0								16.0	N/A	N/A
HOURS SUB-TOTALS	4.0	36.0	30.0	92.0	8.0	84.0	0.0	0.0	0.0	254.0		
LABOR RATE PER HOUR	$215	$175	$145	$130	$110	$80	$110	$95	$70			
SUBTOTAL	$860	$6,300	$4,350	$11,960	$880	$6,720	$0	$0	$0	$31,070		

WEISS LANE - LUMP SUM FEE ESTIMATE

TASK DESCRIPTION		Senior Project Manager	Senior Engineer/ Planner	Project Engineer	E.I.T.	Senior Engineering Tech	CADD Operator	GIS Analyst/ Cartography	GIS Technician	Admin	Total	Number of Sheets	Hours/Sheet
Bid Phase Services													
	Prepare Project Manual			16.0	40.0						56.0	N/A	N/A
	Prepare Bid Documents			8.0	16.0						24.0	N/A	N/A
	Attend Pre-Bid Meeting		8.0	8.0							16.0	N/A	N/A
	Answer Bid Questions			8.0	16.0						24.0	N/A	N/A
	Attend Bid Opening		8.0	8.0							16.0	N/A	N/A
	Bid Tabulations and Recommendation of Award			4.0	8.0						12.0	N/A	N/A
HOURS SUB-TOTALS		0.0	16.0	52.0	80.0	0.0	0.0	0.0	0.0	0.0	148.0		
LABOR RATE PER HOUR		$215	$175	$145	$130	$110	$80	$110	$95	$70			
SUBTOTAL		$0	$2,800	$7,540	$10,400	$0	$0	$0	$0	$0	$20,740		

TASK DESCRIPTION		Senior Project Manager	Senior Engineer/ Planner	Project Engineer	E.I.T.	Senior Engineering Tech	CADD Operator	GIS Analyst/ Cartography	GIS Technician	Admin	Total	Number of Sheets	Hours/Sheet
Construction Phase Services Services													
	Attend Pre Construction Meeting		3.0	3.0							6.0	N/A	N/A
	Review and Approve Submittals	8.0	40.0	80.0	80.0						208.0	N/A	N/A
	Review Shop Drawings	4.0	16.0	40.0							60.0	N/A	N/A
	Review and Approve Pay Applications		18.0								18.0	N/A	N/A
	Respond to RFI's (20)		24.0	24.0	40.0						88.0	N/A	N/A
	Respond to Change Orders (2)		8.0	16.0	24.0						48.0	N/A	N/A
	Construction Site Visits (18)		18.0								18.0	N/A	N/A
	Attend Construction Coordination Meetings (18)		36.0	36.0							72.0	N/A	N/A
	As-Builts			8.0	24.0						32.0	N/A	N/A
HOURS SUB-TOTALS		12.0	163.0	207.0	168.0	0.0	0.0	0.0	0.0	0.0	550.0		
LABOR RATE PER HOUR		$215	$175	$145	$130	$110	$80	$110	$95	$70			
SUBTOTAL		$2,580	$28,525	$30,015	$21,840	$0	$0	$0	$0	$0	$82,960		

WEISS LANE - LUMP SUM FEE ESTIMATE

TASK DESCRIPTION	Senior Project Manager	Senior Engineer/ Planner	Project Engineer	E.I.T.	Senior Engineering Tech	CADD Operator	GIS Analyst/ Cartography	GIS Technician	Admin	Total Cost Task
Project Management	48.0	12.0	26.0	22.0	0.0	0.0	0.0	0.0	20.0	$20,450
Roadway	0.0	0.0	64.0	212.0	72.0	184.0	0.0	0.0	0.0	$59,480
Drainage	0.0	0.0	66.0	268.0	0.0	204.0	0.0	0.0	0.0	$60,730
Erosion Control	0.0	0.0	24.0	40.0	0.0	40.0	0.0	0.0	0.0	$11,880
Signage & Pavement Markings	0.0	0.0	16.0	40.0	0.0	40.0	0.0	0.0	0.0	$10,720
Traffic Signal Design	0.0	72.0	114.0	372.0	0.0	198.0	0.0	0.0	0.0	$93,330
Bridge Design	17.0	134.0	0.0	436.0	472.0	0.0	0.0	0.0	0.0	$135,705
Illumination	4.0	36.0	30.0	92.0	8.0	84.0	0.0	0.0	0.0	$31,070
Bid Phase Services	0.0	16.0	52.0	80.0	0.0	0.0	0.0	0.0	0.0	$20,740
Construction Phase Services	12.0	163.0	207.0	168.0	0.0	0.0	0.0	0.0	0.0	$82,960
SUBTOTAL LABOR EXPENSES	81	433	599	1,730	552	750	0	0	20	$627,065
DIRECT EXPENSES	Rate	Quantity	Cost							
Meals	$36.00	26	$936.00							$936
Mileage	$0.58	2000	$1,150.00							$1,150
Hotel	$150.00	0	$0.00							$0
Courier Services (Deliveries)	$30.00	0	$0.00							$0
CADD Plotting (per SQ/FT)	$1.50	250	$375.00							$375
Photocopies B/W (8.5 X 11)	$0.10	0	$0.00							$0
Photocopies B/W (11 X 17)	$0.15	10000	$1,500.00							$1,500
Photocopies Color (8.5 X 11)	$0.75	0	$0.00							$0
Photocopies Color (11 X 17)	$1.00	0	$0.00							$0
Plots (Color on Bond)	$2.00	0	$0.00							$0
Court Reporter	$500.00	0	$0.00							$0
SUBTOTAL DIRECT EXPENSES			$3,961.00							$3,961
LJA ENGINEERING, INC. TOTAL										**$3,961.00**
Milestone Comment Resolution										
SURVEY (MCGRAY & MCGRAY)										$89,000.00
TDLR (ALTURA)										$2,500.00
GEOTECHNICAL (REL)										$18,770.00
TOTAL - SUB CONSULTANTS:										**$110,270.00**
SUPPLEMENTAL GRAND TOTAL										**$641,296.00**