1. Jefferson County GIS Consortium proposal-Jefferson County GIS Director and Dana Hazen (See attached information.)

2. Sidewalk extensions on South Brookwood Road and Westbury Road at Mountain Brook Presbyterian Church for ADA compliance-Shanda Williams and Ronnie Vaughn (See attached information. This item may be added to the formal agenda.)

3. Executive Session
Dana,

We would like to present JC GIS Consortium to City of Mountain Brook Council.

JC GIS Consortium G-Squared contract includes deliveries of planimetric data (buildings, pavement, paved and unpaved roads and other layers in contract) migration from 10 to 50 engineering grade scale. GIS contract will deliver new GIS products which will be available for partners: Planimetric Areas of Change and Streets Centerline. Planimetric Areas of Change will help cities with detection of properties and related taxes changes in city and zoning processing. We plan to provide services for GIS partners which will include all acquired GIS data and imagery. Jefferson County will continue to provide imagery and basemap services for public.

The major benefits of JC GIS Consortium project for city are:

- Regular higher quality and accuracy orthophotography and planimetric data (every year). Previously we contracted projects every 3-5 years.
- Having higher accuracy imagery, buildings and streets data will help JC cities and agencies with:
  - Public Safety and Emergency Response teams (accurate and updated streets and buildings)
  - Engineering projects and field operations
  - Tax Map (parcels) Modernization project - the new 50 scale imagery and data is critical to the update parcels and cities boundaries
- Migration planimetric data to the engineering quality 3” resolution will be essential for future city development commercial and residential projects

JC Consortium cost sharing makes feasible for all agencies to have yearly aerial survey and mapping updates for all JC cities & agencies.

As we got more commitments from JC GIS partners and City population, we have updated proposed City of Mountain Brook projected contribution to 3.2%

**JC GIS Consortium G-Squared Proposed Contract Funding**

<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>City of Mountain Brook Projected contribution</td>
<td>$12,000.00 $20,000.00 $20,000.00 $8,000.00 $60,000.00 3.2%</td>
</tr>
<tr>
<td>Partner Commitment</td>
<td>$400,000 $625,000.00 $625,000.00 $242,500.00 $1,892,500.00 100.0%</td>
</tr>
</tbody>
</table>

We are looking forward to have Mountain Brook as partner in JC GIS Consortium.
Thanks,

Leonid Mazur, GISP  
Enterprise GIS Manager | Information Technology Services | Jefferson County Commission
p 205-325-5702 | m 205-329-8773 | Leonid.Mazur@jccal.org | http://jeffconline.jccal.org

From: Dana Hazen <hazend@mtnbrook.org>
Sent: Monday, December 02, 2019 1:44 PM
To: Karra, Srikanth <karras@jccal.org>
Cc: Mazur, Leonid <mazurl@jccal.org>; Wade Cherry <cherryw@mtnbrook.org>; Sam Gaston <gastons@mtnbrook.org>
Subject: Re: GIS consortium

Sri and Leonid,

We are putting together our council agenda for December 9. Would you like us to add you for a brief presentation on the benefits of the consortium? Thanks.

On Thu, Nov 21, 2019 at 12:57 PM Dana Hazen <hazend@mtnbrook.org> wrote:

Sri and Leonid,

At this juncture staff is unconvinced that the city would realize a meaningful return on its $94,000 investment as a partner in the consortium. Given that the city of Mountain Brook makes up only 1.1% of the land area, and only 3% of the population, of the county it seems like a membership fee of 5% is high. We have polled city departments to see whether the increased detail/scale would assist in the provision of better services or increased administrative functionality, ad is not anticipated that any critical decisions are to be based on the additional information to be provided via consortium membership.

However, the decision is the city council's; so to that end I would like to offer you the opportunity to make a brief presentation to the council at its pre-meeting on December 9, 2019. If you would like to come talk to them I will be happy to get you on the agenda and coordinate the time with you. We have the provisions for a powerpoint if you would like to do that.
Let us know by Monday, December 2, if you'd like to be on the pre-council agenda. The meeting takes place just prior to the 7:00 formal meeting, so generally between 5:30 and 7:00 (depending on the agenda length).

Thanks!

--

Dana O. Hazen, MPA, AICP
Director of Planning, Building & Sustainability

205/802-3816 phone
205/879-6913 fax
City of Mountain Brook
56 Church Street
Mountain Brook, AL 35213
Jefferson County GIS consortium

The County is proposing a more detailed scale to aerials (benefits to engineers) and more accurate ground improvements profile (building footprints, paving, etc.), and more frequent flying.

We are not in danger of losing the our current data sharing agreement as a result of non-participation. The agreement is automatically renewed every three years, with either party being able to opt out with a 30-day notice.

Since the price is a flat rate we would not be seeing a good return on our investment. So far the County has not been creative in their pricing solutions and has not made the participation fee based on any tangible equations such as population, square miles or development potential.

The deliverables are not enticing enough to warrant participation.

5% is probably too high for the city of MB’s needs. We don’t rely on the accuracy of aerials to make important decisions. Wade has consulted with Police, Fire, Parks and Public Works to see whether this level of detail on aerials would greatly enhance the city’s functions, and the answer is “no.” Having better aerials and building footprint data would be nice, but it is more like “fluff” than a necessity.

It is possible to try and negotiate for a lower participation fee.

If we participate we will still control our own GIS projects.

Our population is 3% of Jefferson County
Our land area is 1.1% of Jefferson County
## City of Mountain Brook

### Projected Contribution

**JC GIS Consortium G-Squared Proposed Contract Funding**

**2020-2022 GIS Orthophotography & Mapping Services**

<table>
<thead>
<tr>
<th></th>
<th>G-Squared Contract 2020-2022</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2020 FY</td>
</tr>
<tr>
<td>City of Mountain Brook</td>
<td></td>
</tr>
<tr>
<td>Projected contribution</td>
<td>$19,000.00</td>
</tr>
<tr>
<td>Partner Commitment</td>
<td></td>
</tr>
<tr>
<td>GIS Consortium Total</td>
<td>$400,000.00</td>
</tr>
</tbody>
</table>
Jefferson County GIS Consortium
Orthophotography and Planimetric Project 2019
Jefferson County GIS Consortium

Agenda

- Welcome GIS Consortium partners - Jefferson County Manager Tony Petelos
- Introduction to GIS Consortium Project - JCC CIO Sri Karra.
  - Benefits of JC GIS Cooperation
  - Consortium Goals
- GIS Project Benefits
- Proposed Orthophotography Contract with G-Squared
  - Project scope and plan
- G-Squared: Project details and Benefits of data migration to 50 scale
- Contract info and proposed Project Funding
- Project Timeline. What is next?
- Questions and discussions

County Agencies Working Together!
Jefferson County GIS Consortium

Consortium Goals

- To provide more accurate and detailed mapping data and orthophotography for all GIS partners on regular basis.
- To support and improve services for JC citizens with more accurate and timely data: transportation, addressing, construction permitting and other.
- GIS Consortium would like to have all Jefferson County and regional agencies, which could benefit from GIS data sharing, to join GIS Consortium. As more agencies will join Consortium it will reduce cost for each partnering organization.

County Agencies Working Together!
Jefferson County GIS Consortium

Consortium Partners

- Jefferson County Commission (JCC)
- Jefferson County 911
- Birmingham 911
- City of Birmingham
- Jefferson County Health Department (JCHD)
- Regional Planning Commission of Greater Birmingham (RPC)

County Agencies Working Together!
Jefferson County GIS Consortium

JCC: Internal Partners

- Jefferson County Board of Equalization (BOE)
- Jefferson County Environmental Services (ESD)
- Jefferson County Roads and Transportation (R&T)
- Jefferson County Tax Assessor Birmingham
- Jefferson County Development Services
- Jefferson County Tax Assessor Bessemer
- Jefferson County Information Technology Services (ITS)

County Agencies Working Together!
Proposed - New GIS Consortium Partners

- City of Vestavia Hills
- Birmingham Water Works
- City of Hoover
- City of Homewood
- City of Trussville
- City of Mountain Brook
- Birmingham Airport Authority
- Jefferson County Sheriff

County Agencies Working Together!
Cooperation with new members (Jefferson County 911 and Birmingham 911) allowed Consortium to plan yearly Orthophotography, Planimetric updates, and data migration of existing planimetric features from 100 scale to 50 scale, keeping the proposed cost of the project at an optimum value for all partners. GIS Consortium partners will benefit from data sharing with the new members, as they previously invested into county-wide Address points, Streets Centerline and Building Footprints planimetric data (provided by G-Squared).
Jefferson County GIS Consortium

Accuracy Is Very Important

- The more accurate, the more uses GIS can have
- Accurate information is easier to build on
- More reliable analysis / results
- Fewer problems later
- More accurate data eliminates or greatly reduces data duplication
- Trade-off: Greater accuracy demands greater investment

County Agencies Working Together!
Deliverables

- Monthly progress report and relevant data support files for archive
- Color orthophotography with 3” resolution at 1” = 50’ scale in Mr. Sid and geo-tiff format
- Planimetric Map features listed in Contract Attachment B in Microstation and ESRI Geodatabase format
- Change Detection parcel layer with Excel Spreadsheet of parcel numbers
- Updated Terrain model data for the areas of change in ESRI shapefile format
Planimetric data is a record of the horizontal position of features on the surface of the earth.

Features typically represented would be roads, buildings and water bodies.

Planimetric maps can represent cultural as well as natural earth features.
Jefferson County GIS Consortium

PLANIMETRIC FEATURES - Transportation Network

- Paved Roads (Edge of Pavement)
- Road Centerlines
- Unpaved Roads
- Paved Alleys
- Unpaved Alleys
- Paved and Unpaved Driveways
- Paved Parking
- Sidewalks
- Roadway tunnel
- Bridges
PLANIMETRIC FEATURES 2

- Buildings and Other Structures Coverage
- Fence Lines
- Airport runways
- Railroads
- Guardrails
- Swimming pools
- Areas Under Construction/Disturbed Areas
- Tracks - Athletic. Courts - Athletic Racetracks
- Billboards
JEFFERSON COUNTY GIS CONSORTIUM

PLANIOMETRIC FEATURES 3

- Concrete Barriers
- Dams, Storage Tanks
- Catch Basin
- Active Quarries
- Hydrology (rivers, lakes, streams, ponds, wetlands)
- Gas and Oil Wells
- Storage pools at wastewater treatment facilities
Jefferson County GIS Consortium

Year 1

- January 15, 2020 - Ground control and flight planning complete
- January 15, 2020 - March 15, 2020 - Aerial Acquisition complete
- October 1, 2020 - Orthophotography delivered
- January 31, 2021 - Planimetric Updated where areas have changed delivered
- January 31, 2021 - Data migration of existing planimetric features from 100 scale to 50 scale (in progress)
Jefferson County GIS Consortium

Year 2

- January 15, 2021 - Ground control and flight planning complete
- January 15, 2021 - March 15, 2021 - Aerial Acquisition complete
- October 1, 2021 - Orthophotography and Building Footprints update delivered
- December 31, 2021 - Remaining Planimetric Updated (Areas of change) delivered
- December 31, 2021 - Data migration of existing planimetric features from 100 scale to 50 scale (in progress)
Jefferson County GIS Consortium

Year 3

➤ January 15, 2022 - Ground control and flight planning complete
➤ January 15, 2022 - March 15, 2022 - Aerial Acquisition complete
➤ October 1, 2022 - Orthophotography and Building Footprints update delivered
➤ December 31, 2022 - Remaining Planimetric Updated (Areas of change) delivered
➤ December 31, 2022 - Data migration of existing planimetric features from 100 scale to 50 scale (complete)
Jefferson County GIS Consortium

G-Squared Projects

County Agencies Working Together!
G-Squared Projects

<table>
<thead>
<tr>
<th>Alabama Clients</th>
<th>Square Miles</th>
</tr>
</thead>
<tbody>
<tr>
<td>Barbour County</td>
<td>905</td>
</tr>
<tr>
<td>Bullock County</td>
<td>626</td>
</tr>
<tr>
<td>Calhoun County</td>
<td>612</td>
</tr>
<tr>
<td>Chambers County</td>
<td>603</td>
</tr>
<tr>
<td>Chilton County</td>
<td>701</td>
</tr>
<tr>
<td>Clarke County</td>
<td>1,253</td>
</tr>
<tr>
<td>Cullman County</td>
<td>755</td>
</tr>
<tr>
<td>Dallas County</td>
<td>993</td>
</tr>
<tr>
<td>Etowah County</td>
<td>549</td>
</tr>
<tr>
<td>Greene County</td>
<td>660</td>
</tr>
<tr>
<td>Henry County</td>
<td>568</td>
</tr>
<tr>
<td>Jefferson County</td>
<td>1,124</td>
</tr>
<tr>
<td>Lamar County</td>
<td>606</td>
</tr>
<tr>
<td>Lauderdale County</td>
<td>719</td>
</tr>
<tr>
<td>Macon County</td>
<td>613</td>
</tr>
<tr>
<td>Marshall County</td>
<td>650</td>
</tr>
<tr>
<td>Shelby County</td>
<td>850</td>
</tr>
<tr>
<td>Talladega County</td>
<td>740</td>
</tr>
<tr>
<td>Tuscaloosa County</td>
<td>1,351</td>
</tr>
<tr>
<td>Walker County</td>
<td>803</td>
</tr>
</tbody>
</table>
Shelby County, Alabama since 2000

- City of Alabaster
- City of Calera
- City of Chelsea
- City of Columbiana
- City of Hoover
- City of Helena
- City of Montevallo
- City of Pelham
- Birmingham Water Works
- Shelby County Environmental Services
- Shelby County E911
- Jefferson County E911
- Jefferson County
- Local Engineering firms
Questions?

Zach Galyen
zgalyen@gsqmap.com

Michael Whisenant
mwhisenant@gsqmap.com

Phone: 931-438-1414

GSQMAP.COM
The total cost of 3-year project is $1,892,000.

The first-year (2020 FY) total contract cost would not exceed $400K, with the partners contribution projected at the same level as it was in 2018 (contract with Atlantic – Orthophotography and Planimetric updates), or as other agencies who joined Consortium and specifically acknowledged their available allocations.

County Agencies Working Together!
Jefferson County GIS Consortium

What is Next?

- Project Timeline
- Contract Funding - JC agencies feedback
- Consortium Partners confirmations
- Partners Contract Agreements

County Agencies Working Together!
Questions?

Contact Us:

- Enterprise GIS Manager Leonid Mazur: Leonid.Mazur@iccal.org
  Phone: 205-325-5702
- Manager Systems Analysis Maurice W. Myers: myersm@iccal.org
  Phone: 205-214-4075

Jefferson County Commission, Alabama Open Data Hub -
http://data-jeffco-al.opendata.arcgis.com/

County Agencies Working Together!
South Brookwood Sidewalk Extension  
For ADA accessibility.

510' x 5' x 6"

<table>
<thead>
<tr>
<th>Item</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Curb &amp; Gutter</td>
<td>$6,200.00</td>
</tr>
<tr>
<td>Sidewalk</td>
<td>$8,530.00</td>
</tr>
<tr>
<td>Inlet Modification</td>
<td>$1,500.00</td>
</tr>
<tr>
<td>Stone</td>
<td>$1,350.00</td>
</tr>
</tbody>
</table>

Total: $18,460.00

There is a 5% increase added for the changing cost of materials.
Westbury Road sidewalk extension
For ADA access.
400' x 5' x 6"

Sidewalk: $6,200.00
Inlet Modification: $1,500.00

Total: $8,085.00

There is a 5% increase added due to the changing cost of materials.