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The Transportation Investment Act (TIA) Manual

The Transportation Investment Act (TIA) Manual was prepared by AECOM for the Georgia Department of Transportation TIA Office in association with the Georgia Department of Transportation.

Recommended By:

Dan Bodycomb

TIA Program Manager

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Date

Approved By:

Kenneth Franks

State TIA Administrator

2/24/2023

Date



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1 Introduction

1.1 The Transportation Investment Act (TIA) Manual

The TIA Manual is the central coordinating document that describes the essential elements of the TIA Program.

1.2 Future Development of the TIA Manual

The TIA Manual is a living document that applies only to the TIA Program. The most updated version can be found on the TIA website (www.ga-tia.com).

1.3 Purpose of the TIA Manual

The TIA Program contains two different types of project funding:

- 1. Regional: 75% of the Special Districts TIA proceeds are used to fund all projects on the Special Districts Approved Investment List. Georgia Department of Transportation (GDOT) is responsible for delivery of these projects.
- 2. Local: 25% of the Special Districts TIA proceeds are divided among all local governments within the Special District for use on transportation projects as determined by the local government (the discretionary funds).

Transportation Investment Act of 2010 – Approved Investment Lists

- Central Savannah River Area
- Central Savannah River Area 2022 Renewal
- Heart of Georgia Altamaha
- Heart of Georgia Altamaha 2022 Renewal
- River Valley
- River Valley 2022 Renewal
- Southern Georgia

The TIA Manual is the core document for defining how the TIA Program is managed and is intended to provide high-level guidance necessary to deliver the projects efficiently and effectively on the Approved Investment Lists. For any specific areas that are not included in the TIA Manual, please seek guidance from the Program Manager (PgM).

When using the TIA Manual, it is important to know the administering entity and the project's fund sources. TIA projects are administered either by a local government or by GDOT/TIA. Projects may be entirely TIA funded or may have mixed funding sources including federal, state, or local funds.

- Locally Let (Administered) projects are projects administered by a local government entity through an agreement with GDOT. These projects are typically 100% funded by TIA and are off-system projects. The local authority is responsible for certifying these projects.
- **GDOT/TIA Let projects** are projects administered by either the TIA Office or the Office of Program Delivery. These projects may be either solely TIA funded or may be blended with other fund sources. GDOT is responsible for certifying these projects.
- **Blended projects** are those projects that have a mixed funding sources and may include federal, state, or local funding and depending upon the funding sources will follow the appropriate process as identified by the TIA Manual. In general, projects funded with Federal funds will follow the GDOT Plan Development Process (PDP) while projects without Federal funds will follow the TIA Manual.

In the event of a conflict between the TIA Manual and any individual contract, the legally binding contractual agreements will prevail.

Regardless of whether the roles and responsibilities are defined by this TIA Manual or a contract, the PgM, with the concurrence of GDOT, determines whether costs associated with the delivery of a project are eligible for payment or reimbursement using TIA funds. It is the burden of the designer to justify costs that are not in the agreed-upon and executed scope.



1.4 Intended Users of the TIA Manual

The audiences for this document include GDOT, participating counties and municipalities, consultants, contractors, utility owners and advisors.

2 TIA Program

2.1 Program Goals and Objectives

The goals and objectives of GDOT in delivering the projects included in the TIA Program are:

- Support Georgia's economic growth and competitiveness through transportation improvements,
- Improve access to jobs,
- Reduce congestion costs,
- Improve efficiency and reliability of commutes,
- Ensure more efficient and reliable movement of freight, cargo, and goods,
- Improve interregional connectivity,
- Support local connectivity to statewide transportation network, and
- Maximize the value of Georgia's transportation assets: optimize capital asset management as well as flow of people and goods through the network.

2.2 Program Requirements and Regulations

The TIA Program is a "project driven program" designed to fund projects that have limited or no funding but are significant to each Special District. Each Special District project list reflects prioritized decisions that have been made by local elected officials and the public. GDOT is prepared to deliver these transportation improvement projects in these Special Districts by implementing a streamlined delivery process that will assure strict attention to project delivery, budgets, and schedules. This process will incorporate coordination with Regional Commissions and local governments and will demonstrate transparency and accountability to the Special Districts, Citizens Review Panels (CRP), and the public.

The projects in the Approved Investment Lists constitute the program for each Special District. The fundamental elements of the management of the budget, schedule, execution, and delivery of the projects contained in this list are:

- All projects must be delivered for each Special District.
- The project budgets are defined in the Approved Investment List(s) and are the amount of Special District transportation sales and use tax proceeds (TIA funds) available for the project. Therefore, projects will be designed and constructed to budget. GDOT is not responsible for supplementing or providing any additional funds unless otherwise shown in the Approved Investment List(s).
- Projects will be delivered on a 'pay-as-you-go' basis or as approved by GDOT should other funding be provided from a sponsor. GDOT is responsible for determining when a project or project phase is initiated if TIA funds are required for the phase.
- The obligation for payment/reimbursement is limited to the amount of TIA funds available. Eligible Project Costs, as defined in O.C.G.A. § 48-8-242(2), and in the Intergovernmental Agreement (IGA) between Georgia State Financing and Investment Commission (GSFIC) and GDOT, will be paid/reimbursed to the sponsor and/or consultant/contractor upon the completion of:
 - o Project element or project is complete, and invoicing is submitted to GDOT,
 - o GDOT's certification of invoices to GSFIC,
 - o GSFIC's approval of GDOT's certification, and
 - o GSFIC's payment/reimbursement to GDOT.



To define the limitation of tax funds and payment obligations of GDOT to any entity under contract with GDOT relating to the TIA Program, all contracts will include the following or similar provisions:

- 1. The parties acknowledge that the program is one hundred percent (100%) funded with Special District transportation sales and use tax proceeds collected pursuant to the Act, and that GDOT's payment obligations related to the program and project are strictly limited as set forth herein. The parties further acknowledge that no entity of the State of Georgia, other than GDOT, has any obligations to the consultant/contractor related to this program or project.
- 2. The obligation of GDOT to pay or reimburse any incurred cost or pay any lump sum cost, is expressly limited to the amount of Special District transportation sales and use tax proceeds remitted to GDOT by GSFIC and designated by GDOT for the program in general and the project specifically. This agreement does not obligate GDOT to make any payment to the consultant/contractor from any funds other than those made available to GDOT from the Special District transportation sales and use tax proceeds by GSFIC and designated by GDOT for the program in general and the project specifically. In the event the funds made available to GDOT from the Special District transportation sales and use tax proceeds are insufficient for the program and project as designated by GDOT, GDOT's payment obligations shall not exceed the availability of such Special District transportation sales and use tax proceeds. GDOT shall have the right at its sole discretion to terminate this agreement immediately upon notice to the consultant/contractor without further obligation of GDOT to the extent that the obligations exceed the availability of such the Special District transportation sales and use tax proceeds for the program and project as designated by GDOT. GDOT's certification as to the availability of the Special District transportation sales and use tax proceeds as designated by GDOT for the program and project shall be conclusive.

2.3 Program Management Workflow

To determine the approach and procedures to deliver TIA projects, users must understand the standard workflow as shown in Figure 2-1. Procedures are based on these primary questions:

- What is the funding source?
- Who is Letting the project to construction?

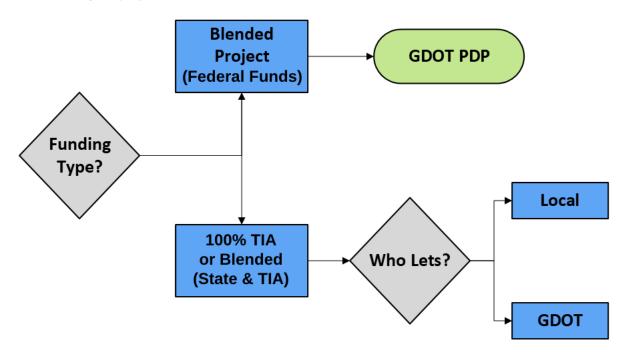


Figure 2-1 TIA Standard Work Flow



Projects that are a blend of TIA and Federal funding will follow the <u>GDOT PDP Manual</u> for those phases where blended funds apply. Procedures for projects that are 100% TIA or have TIA funds blended with State funds will follow this TIA Manual and will further depend on whether the project is let to construction by GDOT or the Local Government sponsor and whether the project is part of the GDOT managed roadway. For GDOT Let projects that are 100% TIA funded, the TIA PgM will be involved with document reviews. For Local Let projects that are 100% TIA funded or blended with State funds, the local sponsor is responsible for certifications.

2.4 Disadvantaged Business Enterprise (DBE), Small Business, and Veteran Owned Business All projects in the TIA Program that include federal funds will adhere to existing GDOT DBE participation goals and are subject to all oversight in that regard.

On May 17, 2012, the GDOT, acting by and through its Board, passed a Resolution that:

- 1. Reaffirmed its commitment to Title VI of the 1964 Civil Rights Act of nondiscrimination in the delivery and management of TIA funded projects; and
- 2. Encouraged the use of DBE's (including minority and woman-owned businesses), small businesses, and veteran-owned businesses in any project that is funded in whole or in part by TIA funds, and encouraged wherever practical and feasible, the Local Government, or governments, that manage TIA funded projects to include the same in its delivery and management of a project.

Reference to this resolution shall be included in all 100% TIA funded projects contracts regardless of Letting responsibility. Contractual requirements will further detail reporting requirements.

3 Program Delivery

3.1 Management Authority

O.C.G.A. § 48-8-249 and the IGA delegates to GDOT the management of the budget, schedule, execution, and delivery of the projects contained in the Approved Investment Lists for all transportation projects except bus and rail mass transit systems and passenger rail, in any Special District the boundaries of which are not wholly contained within a single Metropolitan Planning Organizations (MPO).

GDOT is responsible for delivering the projects in all Special Districts which voted to levy the Special District transportation sales and use tax. O.C.G.A. § 48-8-249(c) requires GDOT to determine if a project design and construction should be managed by GDOT, a Local Government, or another public or private entity. Once that determination has been made, the project must be implemented in accordance with applicable Federal, State and local requirements. It is critical that projects be delivered in the most cost-effective manner possible as to maximize the use of the available TIA funds.

GDOT will coordinate with the Local Governments to determine their interest in project delivery. Each Local Government wishing to deliver a TIA project must complete the <u>Local Project Delivery Application</u> as required by O.C.G.A. § 48-8-249(c) for each project. At GDOT's discretion, delivery by Local Governments may be by phase or by the entire project. Upon review and approval by GDOT, a project specific contract defining the responsibilities of GDOT and the Local Government for delivery will be executed.

3.2 Roles and Responsibilities

GDOT's organization chart, which includes the TIA Office, can be found on GDOT's website:

https://www.dot.ga.gov/AboutGeorgia/Documents/OrgChart.pdf



3.2.1 Program Team Members and Responsibilities

Key entities of the TIA Program team include:

- Georgia Department of Revenue (GDOR)
- Georgia State Financing and Investment Commission (GSFIC)
- Transportation Investment Act (TIA) Office
- Program Manager (PgM)
- Consultants (Construction Engineering and Inspection [CEI], Design Consultant [DC], Engineer of Record [EOR])
- Local governments
- Contractors

The following graphic (Figure 3-1) depicts the role of each team member. CRPs provide oversight of the TIA Program. The Regional Commissions support the CRPs and provide a forum for the Special Districts to address issues of a regional significance that may occur.

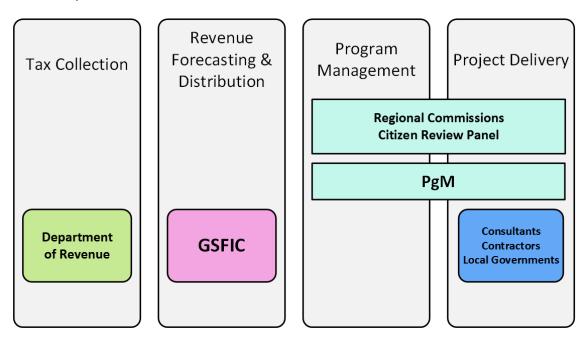


Figure 3-1 TIA Program Agency Roles

There are many GDOT offices, as well as other State offices and agencies that support the core team with the delivery of the Program. Detailed roles and responsibilities for each GDOT Office can be found on their website (https://www.dot.ga.gov/GDOT/Pages/Offices.aspx/). Coordination with other agencies will include, but are not limited to, the following:

- Georgia Department of Natural Resources (GDNR) Wildlife Resources Division (WRD) and Environmental Protection Division (EPD)
- U.S. Department of Transportation, Federal Highway Administration (FHWA)
- U.S. Army Corps of Engineers (USACE)
- Federal Emergency Management Agency (FEMA)

3.2.2 Key Management

The PgM will report directly to the State TIA Administrator, and oversees overall management of the PgM services and personnel to ensure that the management activities are conducted in accordance with the TIA Manual, the Act, and the contractual provisions between GDOT and the PgM. As the principal contact with GDOT, the PgM is responsible and



accountable for the successful completion of the PgM contract within the agreed scope, which includes the requirements of being within budget and on schedule. The PgM is supported by a Program Team consisting of pre-construction managers, Construction Managers (CMs), program controls specialists, Subject Matter Experts (SMEs), and administrative support staff.

3.2.3 PgM Responsibilities

The following blocks provide an overview of PgM's duties:

Administrative	Financial Controls	Program Controls	Technical	Communications
Accounting	Capital Cost Forecasting	Contract Management	Concept Development and Validation	Public Involvement
Procurement Support	Risk Management	Schedule Management	Project Management	Stakeholder Management
IGA Coordination	Budget Management	Data Integration	,	Dashboard Reporting
Invoicing	Invoice Management	Document Control	Environmental Management Utility Coordination	Web/Social Media
	Audits	Reporting	Right of Way Management	Media Support
	Financial Closeouts	Program Audits	and Acquisition	
		QC/QA	Construction Management	

The PgM assists with developing the strategy best suited for the successful delivery of the Program. The PgM provides collaboration, guidance, and acceptance of schedules, and reliable cost estimates to GDOT. The PgM maintains the Master Program Schedule, the cash flow model, and communicates program status through dashboard reporting.

It is the PgM's responsibility to ensure that proper coordination is occurring between the EOR, Local Government, GDOT and all other project team members involved in each of the projects. In conjunction with GDOT, the PgM will determine the frequency of project status meetings to ensure effective management of the projects.

For projects that are 100% TIA funded or TIA funded blended with State funds, the PgM will manage the scope, schedules, and budgets for of all projects in each Special District; keep GDOT well-informed of the progress of the projects through all phases; ensure that approvals and certifications are obtained, close-out documents are completed in a timely manner, warranty items are properly addressed; and serve as Project Manager (PM) on projects as directed by GDOT.

For blended projects with Federal funds, the PgM will coordinate with the GDOT designated PM, and manage the project schedule and cash flow.

3.2.4 Certifications

For all TIA funded projects, the PgM is responsible for compiling all certifications and information required from the project delivery team prior to beginning subsequent project phases or project Letting. Responsibilities related to certification of environmental compliance, utility clearance, and Right of Way (ROW) can be found in the applicable sections of this manual.

3.2.5 Project Cost Estimates

TIA budgets presented on the Approved Investment Lists include all costs associated with administration, design, construction, construction inspection, and material testing necessary to complete the project. The total cost to the project must be less than the budget, and funds must be available for payment at the time each element of the work, or portion of the work, is complete. At each phase of design development, the EOR will produce an engineer's estimate. The PgM will review these estimates, establish contingencies, monitor cash flow, and evaluate impacts to the program. The



PgM and the EOR will work together to modify the scope as necessary to deliver the project in a manner which meets the intent or predetermined benefit for the project.

3.2.6 Band Change Requests

The 10-year funding span for each Special District is divided into three bands, as detailed below, and each project is assigned a band. The projects are to be let to construction in their original band unless the band change requested by the local governments using the Band Change Request Procedure is followed and approved by the TIA Administrator.

TIA 1:

Н	O	GA,	RV,	<u>, CS</u>	<u>RA</u>

Band 1 – January 2013 – December 2015 Band 2 – January 2016 – December 2019 Band 3 – January 2020 – December 2022

SG

Band 1 – October 2018 – September 2022 Band 2 – October 2022 – September 2025 Band 3 – October 2025 – September 2028

TIA 2:

HOGA2, RV2, CSRA2

Band 1 – January 2023 – December 2026 Band 2 – January 2027 – December 2029 Band 3 – January 2030 – December 2032

4 Communications Management

4.1 General Policies

4.1.1 Conflicts of Interest

TIA PgM, consultants, and contractors shall adhere to policies and provisions of O.C.G.A. § 45-10-20 through § 45-10-28 relating to Conflict of Interest.

For the purposes of the TIA Manual, the definition of "consultant" shall include consultants, Local Governments, and contractors. All references to consultant services shall include all services provided by Local Government or the contractor.

4.1.2 Communications Management Policy

The primary contact for all public relations matters shall be the PgM. Only the PgM, or their authorized TIA communications manager, and individuals specifically authorized by GDOT, may engage in discussions about the TIA Program with external third parties, including but not limited to members of the press and other media, government, and the general public. No other individual or inside party shall speak on behalf of the TIA Program, its projects, and related interests unless specifically designated to do so. Individuals may be contacted by outside parties or the media requesting information about the TIA Program. To avoid providing inaccurate, incomplete, or otherwise sensitive information to outside sources, all inquiries regarding the TIA Program must be directed to the PgM. Non-intentional disclosure, or any other contact with public and press entities, must be reported along with the subject matter discussed and contact information for all participating parties.

Individuals and inside parties are also prohibited from disseminating information and discussing any matters related to the TIA Program, directly or indirectly, without prior approval of the PgM or GDOT, via traditional, new or developing mediums. This includes both personal and company social media platforms, online forums, digital written, and verbal communications. Response and reaction via the aforementioned mediums are also subject to all regulations as documented by this policy.



Communications procedures are designed to support all program functions by ensuring smooth communications among all participants and organizations.

Except for matters contractual in nature as specifically spelled out in a consultant or contractor's contract, all communications regarding the TIA Program shall be addressed to:

GDOT TIA Office State TIA Administrator – 11th Floor One Georgia Center 600 West Peachtree Street Atlanta, GA 30308

5 Scope, Budget, and Schedule Management

5.1 Design to Budget

All projects will be designed and constructed to the project budget as established in the Approved Investment Lists. Appropriate contingencies as determined by the PgM will be included in the project cost estimates. Each project must be delivered as presented in the Special District's Approved Investment Lists. The project scope shall be based on the work necessary to achieve the stated public benefits while staying within the project budget. Non-regional projects may not have a public benefit identified on the Approved Investment List.

The EOR shall take a practical design approach to provide the most cost-efficient design possible that satisfies the project scope and budget.

Should a project budget be determined to be insufficient, the EOR will have flexibility, with PgM concurrence, to modify certain project elements to reduce project cost as necessary to bring the project into alignment with the budget. However, the project should still meet the description from the project list or would need approval from the CRP. The cost estimate at the concept stage should identify any scope reduction that would cause the project benefits not to be satisfied. At a minimum, cost estimates will be evaluated at project milestones throughout the development process to track cost to complete budget requirements.

Below is the order of precedence of project elements that the EOR should use in designing to budget without compromising applicable engineering guidelines and standards. The list starts with the most important elements to the least critical:

- Safety features
- Structural members and appurtenances
- Operational features
- Pavement structure
- Typical sections
- Aesthetic and enhancements (unless necessary to satisfy the stated benefit)

The PgM will ensure the project is designed and constructed within budget as shown in the Approved Investment Lists. The PgM, with GDOT's concurrence, is responsible for approving the use of project contingencies regardless of the Letting responsibility.

5.2 Project Schedules and Cash Flows

TIA Projects must be let to construction within the designated band. An initial cost estimate shall be included with the <u>Concept Report</u>. The EOR shall submit a detailed project schedule once the Concept Report is approved. The PgM maintains the Master Program Schedule, and the consultant provides the project specific schedule details that conform to the master schedule. The consultants and contractors must include major milestones and activities with sufficient details



and of reasonable durations to properly describe and manage all phases of the Work. The PgM will review the impacts of the project cash flow prior to recommending concept reports for approval.

5.3 Program Development and Monitoring

5.3.1 Cost Estimate Reviews

For GDOT Let projects, the EOR is required to prepare the project cost estimate using AASHTOWare and submit it to the PgM at each project milestone (at a minimum annually) or as necessary when the project cost significantly changes. The project PM will set up the AASHTOWare cost estimate in the system. The PgM will review estimates for compliance with the established project budget and coordinate scope changes and project contingencies with the EOR. The PgM will ensure that estimates accommodate administrative, testing, CEI services and other appropriate costs.

Prior to each project submittal, the PgM will review the AASHTOWare estimate for accuracy.

5.3.2 Value Engineering (VE)

Formal VE studies are not required on 100% TIA funded projects. However, there is a value component involved with all TIA projects.

6 Risk Management

6.1 Risk Management Activities

Risk management supports a proactive approach to decision making in the project through identification, analyses, and responses to project risks. It promotes quantification of project uncertainty and includes maximizing the results of positive events and minimizing the consequences of adverse events.

The Program's risk management policies are based on the "Practice Standard for Project Risk Management" published in 2009 by the Project Management Institute, and International Standard ISO 31000:2009 titled "Risk management – Principles and guidelines."

As the Program has, and continues, to evolve, the project and programmatic risk profiles will change. The PgM's approach to risk management is to perform risk assessments of the projects and the Program, quantify risk at the project, region and program level, incorporate awareness of project risk exposure on the cash flow and its potential consequences, actively employ risk mitigation measures in the management of the Program, report on the major risk issues to GDOT management, track progress of risk mitigation efforts, and incorporate lessons learned from previous risk assessments continuously throughout the Program.



7 Procurement Activities

Procurement activities for TIA will consist of procurement of professional (including CEI) services, construction contract bidding, and other miscellaneous procurements that may be accomplished by bidding or other procurement methods.

7.1 Professional Services Procurement

GDOT procured professional services must adhere to all applicable State laws. Locally procured professional services must adhere to the procurement laws and regulations of the Local Government.

7.2 Construction Contract Bidding

7.2.1 Letting

For GDOT Let projects, Construction Bidding Administration (CBA) will advertise and receive bids for projects as per normal GDOT procedures.

On Local Let projects, project sponsors will advertise and receive bids as per the sponsors' normal Letting procedures.

7.2.2 Bid Review

For GDOT Let Projects GDOT Policy 2425-1: Bid Evaluation defines the internal procedures used to evaluate contractor bids for construction projects in GDOT administered Lettings. GDOT will tabulate bids and review the submitted bids for irregularities including, but not limited to, unbalanced bids. GDOT will compare the apparent low bid with the Engineer's Estimate and the project construction budget to determine ability to award the project. The State TIA Administrator will make a recommendation based on cash flow to GDOT whether to award, defer, or reject the apparent low bid.

For Local Let projects the Local Government is to submit bid tabs to the TIA Regional Coordinator (TRC) for review. The TRC will compare the apparent low bid with the local government Engineer's Estimate project budget and projected cash flow to determine the ability to award each project. The TRC will make a determination and provide a Notice to Proceed (NTP) to the Local Government provided the project is compliant and funds are available. Where possible and legally permitted, the TRC will provide the Local Government an opportunity to coordinate a resolution to budget issues on a project prior to rejecting bids.

7.3 Other Procurements

7.3.1 Environmental Permitting Mitigation

For projects where wetland, stream, or stream buffer mitigation credits are required, TIA PgM will work closely with GDOT TIA Staff to identify needed credits. Upon determination of the required credits, the PgM will initiate the credit purchase process with GDOT OES following current standard practices of GDOT for the procurement of mitigation credits.

After the procurement is awarded, a purchase order will be issued to the appropriate bank(s). The bank(s) will submit necessary documentation and an invoice to GDOT OES, certifying transfer of credits, and a copy of communication to the USACE notifying of the transfer of credits. The PgM and GDOT TIA staff will coordinate with GDOT OES and GDOT Accounting to properly reflect TIA payment for the purchased credits.

It is important to note that all environmental commitments including mitigation credits must be complete prior to certification of Letting.

7.3.2 Right of Way (ROW)

The TIA PgM will work closely with GDOT TIA Staff to identify needed ROW services and the most appropriate procurement approach considering the time and budget constraints of the project. Upon notification of the need for ROW services, the TIA Procurement Administrator will initiate the ROW procurement(s). The procurement(s) will be accomplished following current standard practices of GDOT for the procurement of ROW services.

Acquisition of ROW on GDOT Let projects may be delegated to the local agency if needed.



7.3.3 Plans, Specifications, Special Provisions and Final Estimates (PS&E)

The EOR is required to develop a complete PS&E package including all of the required special provisions for the project.

The PgM will review the EOR's AASHTOWare estimate for compliance with the project budget.

On GDOT Let projects, final corrected plans will be submitted to the Office of Engineering Services (OES) as required by the GDOT Letting Schedule for processing projects.

7.3.4 Bid Package Development

For GDOT Let projects, the PgM reviews the PS&E package, checks the plans, obtains all required certifications and authorizations, and then provides the completed package to CBA for advertising, bidding and award as required by the GDOT Letting.

On Local Let projects, project sponsors shall submit the complete bid package to the PgM allowing 14 days for review and approval. Upon acceptance of the bid package, the PgM will give written notification to the sponsor that the PS&E package is acceptable to bid.

8 Contract Administration

8.1 Local Project Delivery

8.1.1 Local Delivery Application

GDOT created a <u>Local Project Delivery Application</u> for Local Governments interested in delivering their own projects. The application is to be completed by the Local Government, or their authorized representative, and submitted to GDOT for approval.

8.1.2 Local Delivery Agreement Milestones

The Local Delivery Agreement will typically contain language setting a schedule of expected milestone points that may include, but are not limited to:

- 1. Preliminary Engineering Activities Concept Report Approval
- 2. Preliminary Engineering Activities Field Plan Review (FPR) Approval
- 3. Right of Way NTP
- 4. Construction Notice to Advertise
- 5. Construction NTP

No work on any phase of a project shall begin without a written NTP from GDOT to the Local Government for each of the above phases. If unforeseen conditions are encountered and an extension of the completion date is warranted, the Local Government may request in writing an extension of the completion date for written approval by GDOT.

8.2 GDOT Design Contracts

The PgM will manage the design process to ensure compliance with the scope, schedule, budget, and technical requirements. Refer to Section 12 - Design Management of this manual for more information on the Design Management responsibilities and requirements.

Design contracts are typically entered into between GDOT and the Consultant through a master agreement and individual task orders. Task orders are used to break the project down into smaller sections of work, using milestones, to simplify the negotiation process. The master agreement and task orders have contractual end dates. It is the responsibility of both the Consultant and the PgM to ensure that either the work is complete, or time extensions are issued prior to these expiration dates, if necessary.

Design contract compliance is monitored throughout the duration of the contract. For design contracts, progress and payment for services are tracked by the PgM in terms of progress achieved through plan development. If a consultant is found not to be in compliance with the contract, GDOT may withhold payment and/or stipulate the work be redone.



8.3 GDOT Construction Contracts

8.3.1 Compliance

For TIA funded projects, blended with Federal funds, the assigned Office of Program Delivery (OPD) and District Construction personnel will administer TIA related contracts with support from the PgM.

For GDOT Let, TIA funded projects; construction contract compliance is monitored throughout the construction duration. Contractor progress and payment are computed based on amount of quantity constructed for each pay item. The CM, or designated CEI provider, will verify quantity of materials used on construction and certify that materials are listed on the Qualified Product List (QPL). The CM or designated CEI provider will enter progress into Site Manager or AASHTOWare Software, which is used to generate construction invoices.

For Local Let projects, the Local Government must certify the construction for reimbursement with TIA funds.

8.3.2 National Pollutant Discharge Elimination System (NPDES) Fees

NPDES fees are paid each month to the EPD of the GDNR for land disturbed as a result of projects awarded by GDOT. The fees are based on the amount of disturbed acreage.

For GDOT Let Projects CBA staff will process the NPDES fees and the PgM will review, process, and approve them for payment.

8.4 Supplemental Agreements

Supplemental Agreements may be initiated by the Local Government, Designer, DC, Contractor, PgM or GDOT. Supplemental Agreements must be approved by the PgM and GDOT for conformance with the project budget and scope of services regardless of Letting responsibility. All changes in contract amount due to Supplemental Agreements must be reviewed and approved by the PgM and GDOT to ensure compliance with project budget.

9 Environmental Management

9.1 Environmental Policy

GDOT and the PgM recognize that implementing the projects within this TIA Program may affect the natural, social, and/or human environment. GDOT and the PgM are committed to identifying and documenting environmental resources, obtaining applicable permits and authorizations, and avoiding/minimizing/mitigating impacts where possible as associated with program activities or works.

The TIA projects are required to follow an environmental process commensurate with the sources of funding, potential environmental impacts, and jurisdiction of Federal and State agencies. The environmental process is a multi-disciplinary effort that often requires consultation with many agencies and involvement with the public.

9.2 Environmental Objectives of the TIA Program

All works for the Program shall seek to enhance the built environment and, during construction, to avoid/minimize/mitigate environmental impacts by:

- Ensuring the design and construction of the projects is undertaken in an environmentally responsible manner and in full compliance with the provisions of the relevant environmental statutory requirements,
- Identifying environmental resources, documenting, avoidance/minimization measures, and mitigating environmental impacts, or
- Committing resources to comply with the requirements, as presented in this TIA Manual.

9.2.1 Project-Specific Environmental Compliance

Environmental impacts associated with TIA projects may require the involvement of local, State and Federal agencies through approvals or permit obtainment. Examples may include, but are not limited to, impacts to vegetative buffers of



State Waters (Buffer Variance [BV] application approvals from the EPD), impacts to Waters of the U.S. Section 404 of the Clean Water Act Permit approval from the USACE), and impacts to State and/or Federal protected species (coordination with the GDNR WRD and U.S. Fish and Wildlife Service [USFWS], respectively), and impacts to historic and archaeological resources (coordination with appropriate agencies and Tribes).

The funding type, Letting responsibility, and location of the project (on or off the GDOT State Route system) are important in the determination of environmental documentation requirements (see Figure 9-1 TIA Environmental Flowchart).

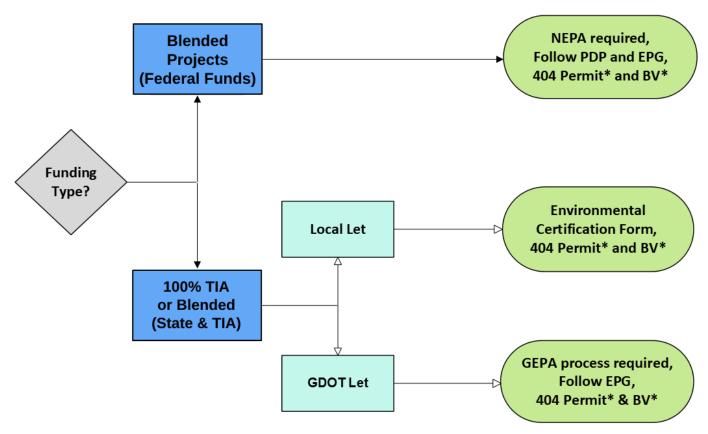


Figure 9-1 TIA Environmental Flowchart, *as applicable

- Projects that use Federal funds or have a Federal nexus (e.g., USACE 404 permit) fall under Federal jurisdiction
 and are generally required to comply with National Environmental Policy Act (NEPA) and follow the
 Environmental Procedures Guidebooks (EPG). These blended projects that include Federal money shall be
 coordinated through Office of Environmental Services (OES) and follow with FHWA approvals.
- Projects that are 100% TIA funded or TIA funded blended with State funds and are GDOT Let are required to follow the EPG and the Georgia Environmental Policy Act (GEPA) process. The TIA PgM functions as GDOT OES for these projects and all coordination shall be through the TIA Office. The preparation of all environmental studies, GEPA documents (if project exceeds \$100 M), and applicable permits must comply with the procedures outlined in the GDOT EPG. The consultant will prepare all applicable environmental studies for the review and approval by the PgM and the GDOT TIA Administrator. The PgM will review all environmental applications prior to transmittal to the applicable resource agency. Additionally, the PgM will facilitate the purchase of all Section 404 Permit and/or BV mitigation credits on behalf of GDOT in coordination with OES. For GDOT Let projects all pre-construction environmental commitments must be obtained in order for the PgM to complete the environmental certification for Let (at least 11 weeks prior to the GDOT Let date). For projects that require a 404 Permit and/or BV, "Final Plans" must be submitted to PgM and discussion of schedule and status of "Final Plans"



should be conducted approximately 9 months before Letting for 404 permits and BV applications to be prepared by the consultant, reviewed by the PgM, and transmitted to agencies for authorization. "Final Plans" are Plans to which there can be no changes to impacts of the Waters of the US or State protected buffers and environmentally sensitive areas (ESAs) once the submittal is made. As these projects would be reviewed similar to the GDOT Program in coordination with the TIA PgM, document submittals to USACE would be through the USACE-GDOT Inbox at cesas-rd-gdot-esubmittal@usace.army.mil.

- It is the responsibility of sponsors of Locally Let projects that occur on a State Route to implement appropriate construction monitoring activities to avoid environmental non-compliance.
- Projects that are 100% TIA or TIA funded blended with State funds and Local Let are required to provide the
 <u>Environmental Certification Form</u> and any permits/variances would be obtained with the local government
 sponsor as the applicant. For these types of projects, it is the responsibility of the sponsor or the sponsor's duly
 authorized representative to complete the Environmental Certification Form, which certifies compliance with
 applicable Local, State, and Federal environmental requirements. Agency submittals would be in accordance with
 USACE Savannah District Guidelines as found at this link:
 https://www.sas.usace.army.mil/Missions/Regulatory/Electronic-Submittal-of-Applications.
- If a TIA funded project shares common termini with a Federal funded project, then consultation with the GDOT PgM is required to determine if NEPA must be followed to protect the environmental decision of the adjacent project. In cases where an interchange is involved, there could be a Federal action, and consultation with PgM is needed to ensure the appropriate process is followed. GDOT EPG describes in detail the policies and procedures of the Federal and State environmental processes.

Of note, projects that require a Section 404 of the Clean Water Act permit result in the project's compliance with Section 106 of the National Historic Preservation Act (NHPA).

9.2.2 Environmental Strategy

An initial screening and project background research should be conducted as early as possible to determine the potential for environmental impacts.

The preparation of environmental deliverables is one step in a series of approvals for a project to achieve construction authorization. Early coordination with parties that have jurisdiction over the project will help clarify requirements and avoid unnecessary delays. Early coordination is the responsibility of the consultant team and does not require consultation with the PgM. The responsible party tasked with completion of the project's environmental deliverables should identify critical path activities or risks in the schedule and manage these activities to expedite the delivery of the environmental documentation for environmental processes associated with the applicable GEPA, NEPA, and environmental permitting and approval processes. It is incumbent upon the party tasked with completion of the project's environmental deliverables to set an environmental schedule and coordinate with the PgM regarding implementation and execution strategy. There are a variety of environmental deliverables that projects may require depending upon the funding source, Letting authority. A formal environmental justice screening report would not be required for these projects.

Efficiencies in the process should be considered and may include but are not limited to initiating ROW acquisition concurrently with the local environmental process to expedite project delivery. Elements of risk are inherent in allowing concurrent activities rather than the typical sequential activities; however, these risks must be identified and actively managed by the project sponsor and environmental delivery team.

Consultants performing environmental surveys on the TIA Program shall always carry a current copy of the Field Survey Right of Entry letter during field work. During field work this letter shall be provided to property owners whose property



could be accessed by field personnel within the project study limits. The Right of Entry letter should be mailed out in advance of the field work.

GDOT's TIA Office will have oversight responsibility for construction projects Let by GDOT. It is the responsibility of the PgM to ensure compliance with environmental commitments and NPDES permit requirements.

9.3 Environmental Responsibilities Overview

9.3.1 Permitting

Local, State, and Federal projects, regardless of Letting responsibility, are required to coordinate, as applicable, with the PgM and EPD regarding the NPDES permit requirements and to obtain BV encroachment approval for vegetative buffer impacts to State Waters and purchase associated mitigation credits, and the USACE to obtain the appropriate Section 404 Permit for impacts to Waters of the U.S. and purchase associated mitigation credits.

For GDOT Let projects that are 100% TIA funded or blended with State funds:

- 1. The applicant will be the TIA Office, specifically the TIA Administrator and the PgM will serve as the point of contact for EPD and USACE.
- 2. The project environmental consultant will prepare and obtain Section 404 Permits and/or BV applications, working through PgM environmental process.
- 3. The PgM will review all Section 404 Permit and BV applications prior to transmittal to the applicable regulatory agency
- 4. The PgM will facilitate the purchase of all Section 404 Permit and/or BV mitigation credits in coordination with GDOT OES.

If the project is Locally Let, then the project sponsor is the applicant for all applicable Federal and State permits and approvals (e.g., BV, Section 404 Permit, etc.) and will purchase the appropriate mitigation credits. Refer to Figure 9-1 for other scenarios.

It should be noted that the Section 404 permit is a Federal action. Federal laws commonly encountered for TIA projects include: Section 7 of the Endangered Species Act which requires documentation for threatened and endangered species and Section 106 of the National Historic Preservation Act which requires documentation of the archaeological and historic resources within the project's study area. For GDOT Let projects, any Tribal consultation will be coordinated through GDOT OES through the PgM. The PgM will track the status of obtainment of applicable environmental permits and approvals relative to the project Letting schedule. In addition, depending on USACE's scope of analysis and jurisdiction, some documentation complying with the NHPA may need to be repackaged for USACE and some may be strictly GEPA.

The responsible party for completion of the project's Environmental Deliverables shall have the experience and/or GDOT pre-qualifications or retain the experience and area class qualifications necessary to complete Local, State and Federal processes to ensure that applicable environmental requirements are being met. It is important to recognize the context within which the project resides to identify required documentation. For instance, projects that cross Federal jurisdictions or have Federal funding are required to provide documentation under the NEPA process (i.e. CE, EA/FONSI, EIS/ROD) through GDOT OES since the project falls within the Federal jurisdictional boundaries.

9.3.2 Borrow/Waste/Stockpile Sites

For 100% TIA projects or blended with State funds, if it is determined that project requires the use of borrow/waste/stockpile sites for the placement of construction materials (i.e. soil cement base, sand clay base, base, etc.), or disposal of excess material, common fill, and inert waste, the Letting authority determines the process by which sites achieve environmental clearance by the local sponsor or by GDOT and the TIA CM.

For Locally Let projects, the local sponsor shall provide confirmation to the TIA CM indicating that environmental clearance work has been completed and no significant environmental resources (i.e. waters of the U.S., State waters, cultural resources, and protected species) would be affected. This confirmation can be achieved by a letter or copy of



report documentation from the local sponsor. In addition, Locally Let projects must comply with all state laws regarding the disposal of waste and should provide in writing the environmental clearance documentation required by the state to the PgM.

For GDOT Let projects, the GDOT Contractor or the PgM shall be responsible to obtain environmental approval to use an area for a borrow/waste/stockpile site. Also, it shall be the responsibility of the GDOT Contractor to submit material source approval for a borrow/waste/stockpile site. The GDOT Contractor shall submit a letter of release from the property owner to the CM for the borrow/waste/stockpile site. It is the responsibility of the contractor to obtain all local, State, and Federal permits and approvals.

9.3.3 Summary of Protocols

- Electronic documents are preferred for all submittals. Submit all environmental documents to the TIA
 Environmental Coordinator and cc the TIA PM on correspondence. If the file can be emailed, do so. If the file size
 is greater than the 8+ MB size, use WeTransfer (https://wetransfer.com/) or save the document to the GDOT
 Secure File Transfer Protocol (SFTP) and email the PgM Environmental Coordinator and cc:
 <u>TIAenvironmental@dot.ga.gov</u> regarding the submittal. For federal blended projects, follow the EPG transmittal
 process through OES.
- If there is any question about TIA process/protocols, do not hesitate to reach out to the PgM. PgM is open to suggestions that can streamline the process.
- Agency consultation is primarily conducted through the PgM. Document submittals are handled through TIA
 (including BVs, 404 permits, etc.). If agency site visits are being requested, discuss with PgM first, and ensure that
 the PgM is included on correspondence. The objective is for a single point of contact between the agency and
 GDOT to be consistent with other agency relationships GDOT has.
- For local let projects not on a state route, the local sponsor should be the applicant on 404 permits and buffer variance
- Early Coordination Letters- requests from DNR/USFWS for 3-mile occurrences can be sent without PgM review or cc. For GEPA Notification Letters (see below under Cultural Resources). Other early coordination can be discussed with the Prime about the best approach. There is no prescriptive approach to early coordination.
- Prime Verification- For all document submittals to PgM for review, similar to submittals to GDOT OES under guidance provided by the Chief Engineer on 12/16/15, consultant shall ensure that coordination with Prime has been conducted prior to submittal of documents to the PgM.
- Cultural Resources GEPA Notification Letter work with PgM for guidance.
- For all coordination and submittals, the TIA PM shall be included in any communications.

9.3.4 GEPA

As of July 1, 2016, the GEPA was modified such that when an improvement to a public road or airport does not exceed \$100 million in costs, such actions do not require a GEPA document. Resource identification and documentation of avoidance and minimization is part of the environmental process and procedures outlined in the EPG are followed.

9.4 Environmental Compliance

GDOT's Environmental Compliance Bureau (ECB) will have oversight responsibility for all projects Let by GDOT. It is the responsibility of the PgM to ensure compliance with environmental commitments and NPDES permit requirements. The PgM works closely with the ECB regarding pre, during, and post- construction commitments to ensure these commitments are done at the appropriate time.



10 Utility and Railroad Coordination

Existing utilities may be located within or in the vicinity of the existing or proposed ROW of TIA projects, some pursuant to statutory rights or written permission and some pursuant to property rights. Existing utilities may require relocation or adjustment to accommodate TIA projects. This Chapter establishes procedures and requirements for utility relocations, including such processes as coordination with utility owners, preliminary engineering, construction, and other activities necessary for utility relocations, and the required documentation.

Utility coordination shall be considered an integral part of TIA project development. As budgets are fixed and scope defined, effective coordination, communication, cooperation, and commitment between GDOT, PgM, TIA Utility Engineer (TIAUE), utility owners, Georgia Utility Coordinating Council (GUCC), Georgia Utilities Protection Center (UPC/811), District Utility Engineers (DUE), railroads, municipalities, counties, contractors, and consultants are the key to successful delivery. The design team shall make every effort to study utility impacts early on in project development and provide the most cost-effective solutions.

All existing GDOT policies and procedures governing railroads and railroad coordination will be used for TIA projects, with the exception that all coordination will be submitted through the TIAUE.

10.1 Utility Accommodation Standards

GDOT policies and procedures for utility relocation and coordination are defined in the GDOT Utility Accommodation Policy and Standards Manual (UAM), current edition. All Utilities, whether privately or publicly owned, will be required to comply with the policies and standards of the UAM when occupying or crossing any part of the ROW of the State Highway System.

There may be circumstances where some variances to the GDOT UAM may be considered to accommodate the utility owners, GDOT, counties, municipalities, contractors, property owners, locally impacted businesses, or potentially affected third parties. Variances will be addressed on a case-by-case basis. TIA utility special provisions will be required to cover any approved variances. All variances from the GDOT UAM must be approved by GDOT's State Utilities Office for blended projects and recommended for approval by the PgM to the State TIA Administrator for 100% TIA funded projects or blended with State funds prior to implementation.

10.2 Responsibilities

The roles and responsibilities related to utility certification on TIA projects are outlined in the following sections:

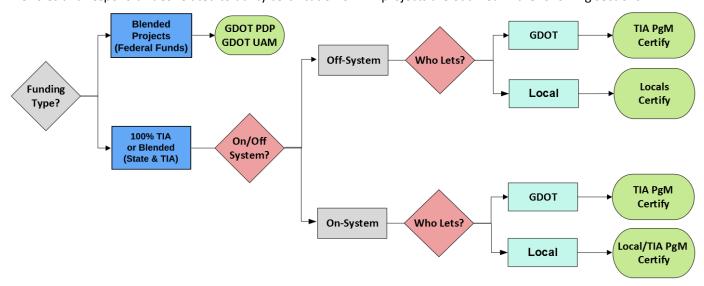


Figure 10-1 TIA Utility Responsibility Workflow



The TIAUE will provide guidance and oversight to the project consultants and contractors in accomplishing Utility Coordination from Project Concept to project closeout. The PgM will coordinate, provide direction, and assist the contractor, railroads, and the utility owners in the Utility Coordination process.

10.2.1 Blended Projects

The GDOT Utilities Office will manage the utility relocation process for blended projects that have federal funds. Utility coordination, and work will follow the GDOT PDP and comply with the policies and standards set forth in the UAM.

- TIA/Federal Funds follow the GDOT UAM and coordination will be through the district.
- TIA/State/Local Funds follow the GDOT UAM and coordination will be through the TIAUE.

10.2.2 100% TIA Funded Projects or TIA Funded Blended with State Funds

The TIAUE will serve in the role of GDOT's District Utilities Engineer as outlined in the GDOT UAM.

For On-System projects (Local Let or GDOT Let), utility coordination and work will comply with the policies and standards set forth in GDOT UAM.

For Off-System projects Let by the Local Government, utility coordination and work will comply with the Local Government's policies and procedures. For Off-System projects Let by GDOT, the TIAUE will provide certification of utilities.

10.3 Identification of Utilities and Notification of Utility Companies

Utilities are identified through field surveys, topographic surveys, coordination with utility companies, and subsurface investigations using Subsurface Utility Engineering (SUE) methods. The EOR incorporates utility location data into its base drawings. The TIAUE will submit a request to Georgia 811 for a list of utilities specific to a given project once the consultant has been given NTP and conceptual plans are underway.

10.3.1 Direct Communication with Utility Companies

The EOR will obtain a list of utility companies in the vicinity of a project prior to the beginning of design with the assistance of the TIAUE.

Once conceptual design is complete, the EOR will make two submittals on consultants' letterhead to utility companies:

- 1. Utility 1st Submission: Base plans will be provided to the utility owners as confirmed by the TIAUE/Georgia 811 Locate Request. Utility owners shall then verify locations of the existing facilities located within the project limits and general vicinity of the project, providing marked plans to the EOR. Utility 1st submission requirements shall be detailed in a letter provided to each utility owner (1st Submission Letter). Submission deadlines shall be coordinated and confirmed by the TIAUE prior to submission to utility owners.
 - a. Utility 1st Submission SUE: For those projects determined to require SUE, the EOR will submit preliminary plans to utility owners, requesting verification of existing facilities. This request shall be considered Utility 1st Submission and should follow the SUE submittal as outlined in Section 4.1.C.1. in the UAM.
- 2. Utility 2nd Submission: As project design proceeds, preliminary plans will be provided to the established utility owners, requesting further verification of existing facilities as well as marked relocation plans for facilities in conflict. Requirements shall be detailed in a letter provided to utility owners (2nd Submission Letter). Submission deadlines shall be coordinated and confirmed by the TIAUE prior to submission to utility owners.
- 3. Utility 1st and 2nd Submission: As per Section 4.1.C.1., Part B, of the "Utility Accommodation Policy and Standards Manual", in some cases, "1st Submission" and "2nd Submission" will be requested concurrently. In this written correspondence, the Utility will be requested to show any adjustments or relocations necessary to accommodate the construction of the project (1st / 2nd Submission Letter). Additionally, the Utility will be responsible for verifying the accuracy of existing facilities previously submitted, identified by a SUE investigation, or mapped by



the Department. The Utility will also be responsible for adding any utility information not shown and for preparing any detailed staging plans showing necessary adjustments, temporary installations, and relocations of their facilities to conform to the highway construction requirements and the provisions" of the UAM.

The consultant shall maintain a Utility Tracking Report to document submission of plans to utility owners. This information shall be submitted to the TIAUE at each milestone (existing facilities submission, proposed facilities submission, etc.). Additional submittals of the Utility Tracking Report may be requested by the TIAUE, if necessary, due to changes in the project schedule or scope of utility relocation.

The consultant will copy the TIAUE on all correspondence with any railroad or utility company. Correspondence shall be submitted with the Utility Tracking Report.

Preliminary Utility Relocation Process (PURP)

In accordance with PDP, Section 6.4.3, an interim submission, and meeting for preliminary utility relocations may be requested for projects with scope deemed significant enough to warrant the additional coordination. Management of this submission and/or meeting will be the responsibility of the EOR with assistance from the TIAUE. The requirement for this work shall be at the discretion of the PgM and be determined during preliminary plan scoping.

The overall goal of the PURP is to provide early coordination between the designer and utility companies to mitigate future project risks. Typically, this submission and team meeting should occur in advance of the Preliminary Field Plan Review (PFPR) but may occur up to any point prior to Right of Way Plan approval.

10.3.2 Subsurface Utility Engineering (SUE) Services

For projects with TIA funding, the PgM will determine if SUE is needed for GDOT Let projects.

10.3.3 Utility Permitting

For projects on or connecting to or intersecting State routes, each utility owner on a TIA project will be required to submit a relocation permit in Georgia Utility Permitting System (GUPS) and the District Utility Engineer (DUE) for that district shall approve each permit prior to the certification of utilities. The TIAUE shall coordinate with the DUE to ensure that the GUPS Permit Submittal meets the requirements for approval as outlined in the UAM. The TIAUE shall review permits and provide concurrence for approval to the DUE.

10.4 Certification of Utilities

For 100% TIA funded projects that are GDOT Let or On-System, the design procedures will follow the GDOT UAM and the TIAUE will function as both the District and State Utilities Engineer:

- TIA funded, GDOT Let (On-System or Off-System) shall be certified by the TIAUE.
- TIA funded, Local Let On-System shall be jointly certified by the Local Sponsor and TIAUE (<u>Local Utilities</u> Certification).
- TIA funded blended with Federal funds projects shall be certified by the DUE.

Therefore, the TIAUE will complete the Utilities Certification which certifies that all utility conflicts have been identified and resolved and identifies any payment obligation GDOT may have for utility related costs on the project.

For TIA funded Off-System projects the sponsor or the sponsor's duly authorized representative shall complete the <u>Local Utilities Certification</u>.

10.5 Utility Relocation Work and Construction Schedules

Utility companies and railroad owners are required to attend the pre-construction conference and to coordinate the construction schedule directly with GDOT's Contractor. The contractor will work closely with the utility company throughout construction maintaining detailed records of utility coordination efforts. The contractor shall, at a minimum, hold monthly utility coordination meetings. Frequency of utility coordination meeting shall be determined based on



project scope and utility involvement and shall be approved by the CM and CEI staff. During construction, the CM or designated CEI staff shall monitor utility relocation progress, attend/hold coordination meetings, and confirm that utility construction fulfils the Memorandum of Understanding (MOU) and contract requirements. Utility relocation construction schedules shall follow the approved Utility Adjustment Schedules (UAS) provided with approved GUPS permit applications. Utility owners shall follow this schedule for all construction activities located with the project limits. Any deviation from the approved UAS shall require coordination with the TIAUE and revision to the approved permits. All permit revisions shall be processed in accordance with the GDOT UAM.

10.6 Utility Relocations/Coordination during Construction

The PgM and the EOR will coordinate with Utility and Railroad Owners before project certification to determine conflicts, necessary relocations, utility adjustment schedules, and issuance of the GUPS permits. It is common for utilities to be unexpectedly encountered during construction. If this occurs, the contractor will notify the CM and initiate coordination to identify and coordinate relocation of the newly discovered utility.

10.7 Utility Reimbursement

TIA procedures for reimbursement shall follow those outlined in Section 4.2 of the GDOT UAM and shall be accomplished via direct coordination with the TIAUE.

Reimbursements for utility relocations are determined and negotiated prior to construction Letting. The negotiated amount of reimbursement may require a Utility Agreement or Force Account Agreement between GDOT and the utility company.

10.8 Utility and Railroad Owner Meetings and Correspondence

The TIAUE will be responsible for assisting the Consultant in identifying Utility and Railroad owners, tracking plan submissions, scheduling, and inviting Utility and Railroad owners to the FPR meetings, holding other coordination meetings, as needed, and otherwise communicating with Utility and Railroad Owners as necessary to timely accomplish any required Utility Relocations on GDOT Let projects.

At least ten calendar days in advance of each scheduled project utility and railroad meeting, the PgM shall provide written notice and an agenda for the meetings with the appropriate Utility and Railroad Owner. The PgM shall prepare and distribute minutes via US mail and/or electronic mail of all meetings within seven days after the date of the meeting with Utility and Railroad Owners and shall keep copies of all correspondence between PgM and any Utility and Railroad Owner.

10.9 Record Keeping

The PgM shall ensure that utility construction and inspection records are maintained to ascertain that Utility Relocation Work is accomplished in accordance with the terms and in the manner proposed on the approved Utility Work Plan and the applicable Utility Agreement.

Documentation forms currently used by GDOT, counties and municipalities will be used for utility relocation whenever possible. When new documentation forms, such as a variance, are required, approval will be required from the relevant governmental agency and GDOT State Utilities Office. Utility owners will be notified in writing within ten calendar days prior to any documentation form changes and its respective implementation.

10.10 Utility Escalation on Construction

Should an escalation arise with the Utility Owner's Utility Accommodation Schedule (UAS) during construction, the following steps will be followed. These escalations are summarized in three steps and are similar to the process followed Section 4.4.C of the UAM.



Step 1 - Escalation Process

Worksite Utility Coordination Supervisor (WUCS) – if the WUCS has made the determination that the Utility Owner (UO) is 20% behind schedule per their UAS on proposed utility relocations, the WUCS will issue a "Notice of Intent" to the UO, copying the Construction Project Manager, the TIA Construction Management (CM) and the TIA Utility Engineer (UE) requesting a recovery schedule.

Utility Owner (UO) - will have 10 business days to submit response which must include justification for the delay along with a recovery schedule.

TIA Utility Engineer (UE) – if no response or resolution has been reached after 20 business days from the date of the contractor's Notice of Intent, the UE will follow up with CM to determine a status. If necessary, follow up with UO to determine status of response or resolution.

Step 2 - Escalation Process

UE – will work with CM to determine if all requirements of contractor, per UAM, have been met. If dispute cannot be resolved, Utilities will assist in the coordination of a meeting which shall include the following attendees:

- Contractor
- Utility Owner
- TIA Construction Management
- TIA Utilities
- State Construction Engineer
- State Utilities Engineer

Step 3 – Escalation Process:

State Utilities Office – After the meeting, the SUO will copy all parties of their determination if the UO is liable for delays.

11 Right-of-Way Management (ROW)

11.1 General Acquisition Requirements

Titles 32 and 22 of the O.C.G.A. shall be used for all ROW acquisition regardless of who acquires the ROW for the TIA projects.

No separate funding authorization is required to begin ROW acquisition for 100% TIA funded projects.

ROW acquisition can proceed at-risk without environmental approval.

Reimbursements to Local Governments for property acquisitions and payments to property owners will be paid out of TIA funds in accordance with the Local Agreement.

For all GDOT acquired parcels, reviews and approvals noted in the <u>GDOT ROW Policies and Procedures</u> that are designated to be completed by GDOT ROW Office staff, will be completed or coordinated by the PgM.

For parcels that are On-System or adjacent to an On-System route, regardless of who acquires the ROW, all consultant acquisitions must be performed by GDOT prequalified ROW consultants for each level of work being performed during the acquisition process. Additionally, all appraisals and appraisal reviews must be conducted by an independent appraiser, pre-qualified by GDOT.

11.2 Responsibilities

For 100% TIA funded or blended with State funded projects that are GDOT Let or are Local Let, **On-System** (**or parcels that are adjacent to On-System route**), GDOT's ROW Office has delegated the authority to the PgM to manage ROW. The



State TIA Administrator has contractually delegated the management of those acquisitions to the PgM who is responsible for:

- Ensuring that all acquisitions are in accordance with state laws and any applicable federal laws,
- Reviewing and approving ROW plans,
- Prepare preliminary cost estimate to establish a ROW budget and ensuring the project scope and cost are within budget based on information provided by the EOR (Parcel Data Spreadsheet),
- Approving any proposed financial transaction associated with the acquisition of ROW,
- Certifying for each project all ROW has been acquired, or a plan for acquisition is in place that will not impact the
 construction schedule,
- Verifying ROW stipulations between Local Governments and property owners are included in the construction contract,
- Coordinating the submittal of approved ROW plans,
- · Preparing deeds and closing documents as needed,
- Ensuring GDOT project management software used to track the ROW acquisition process is current, and
- Overseeing the ROW acquisition being performed by the ROW consultant on the behalf of TIA.

For 100% TIA funded, blended with State funds that are **Off-System** and Local Let:

The Local Government is responsible for:

- Ensuring that all acquisitions are in accordance with state laws and any applicable federal laws (i.e., appraisal review),
- Reviewing and approving ROW plans,
- Providing the necessary information from EOR to the PgM (<u>Parcel Data Spreadsheet</u>),
- Preparing detailed ROW cost estimate when using for NFS (refer to 11.5),
- · Getting detailed ROW cost estimate reviewed and approved by PgM,
- Certifying for each project all ROW has been acquired; or a plan for acquisition is in place that will not impact the construction schedule,
- Verifying ROW stipulations between Local Governments and property owners are included in the construction contract,
- · Preparing deeds and closing documents as needed, and
- Providing ROW certification to PgM prior to construction Let in accordance with Section 11.4.

The PgM is responsible for:

- Preparing preliminary cost estimate based on spreadsheet from EOR,
- Approving reimbursement invoices associated with the acquisition of ROW on a 100% TIA, or projects blended with state funds, for compliance with TIA legislation, and
- Auditing as necessary.

11.3 GDOT ROW Acquisition Management

For GDOT Let or Local Let On-System or adjacent to On-System projects the EOR will provide the necessary information for the PgM to complete the cost estimate and validate project cost. This is completed prior to the ROW plan approval.

A GDOT approved appraiser will generate the detailed ROW cost estimate. The TIA review appraiser will approve the detailed ROW cost estimate.

11.4 Local ROW Acquisition

Local ROW acquisition is eligible for reimbursement for both administrative and real property value up to the amount budgeted. Local Governments must have the EOR provide the necessary information (using the <u>ROW Parcel Data</u> Spreadsheet) for the PgM to complete the <u>Preliminary ROW Cost Estimate Spreadsheet</u> for the project. The PgM will



complete the cost estimate and validate the project cost during the concept report submission and prior to ROW plan approval and issuance of a NTP. Budgets for ROW cost will be agreed to by GDOT and the Local Governments through a Local Agreement. If ROW costs are found to be more than the budgeted amount, coordination between the Local Government and the PgM is necessary to determine the impacts to the project. ROW costs that exceed the amount agreed upon in the Local Agreement, and deemed necessary to complete the project, may be the responsibility of the Local Government.

Consultants who contract with the Local Governments to acquire ROW can establish the Market Value for the real property based on the approved detailed ROW cost estimate. The detailed ROW cost estimate must be submitted to the PgM for review before offers can be made. TIA projects that cross county or city lines will require a Local Agreement for acquisition services with each municipality acquiring the ROW. The Local Governments must certify ROW with the Right of Way Certification form. This is a condition precedent to reimbursement of ROW costs.

11.5 Abbreviated Valuation Methods

Abbreviated Valuation Methods may be used in compliance with procedures outlined in GDOT ROW Manual. Deviation from these procedures is granted for the monetary threshold. The monetary threshold is limited to \$50,000 and is only allowed for properties that do not suffer any damages. This is an amendment to the values established in the GDOT ROW Manual. All other procedures must be followed.

11.6 Condemnation

For On-System projects where the ROW is to be acquired in the name of GDOT, a Special Assistant Attorney General (SAAG) is required for all condemnation proceedings. If it is determined that SAAG services are needed, the PgM will submit a request for assignment of a SAAG to a project through the Office of Right of Way Funding and Certifications. This request must include Project Number, PI Number, and charging information for the SAAG billing.



12 Design Management

12.1 Concept Reports

The Concept Report is a record of the defined scope of work to be delivered for the project. The scope of the project shall meet the stated benefit described in the Special District's Approved Investment Lists and must be clearly stated in the Concept Report. Except for minor projects, Concept Reports shall be completed and approved for all TIA funded projects at the discretion of the PgM. GDOT's Chief Engineer & Director of Engineering must approve the Concept Report before a project can be advanced to the preliminary plans phase. Technical content and assurance that the concept meets the project's stated benefit is the responsibility of the PgM.

12.1.1 Blended Projects

Concept Reports for blended projects that include federal funds will follow the processes and templates defined by the latest GDOT PDP manual.

12.1.2 100% TIA funded projects or TIA blended with State funds

<u>TIA Concept Report</u> for 100% TIA funded projects or TIA projects blended with State funds will be circulated to GDOT and local sponsors. For 100% TIA funded projects, Concept Team Meetings will be scheduled at the discretion of the PgM and may not be required based on the PgM's recommendation and acceptance by GDOT. Approval of Concept Report shall constitute Location & Design (L&D) approval. The TIA PM shall notify and provide the District personnel with the approved concept report and layouts for display in the Area Office.

12.1.3 Location and Design (L&D)

For 100% TIA funded projects or TIA projects blended with State funds, a Notice of L&D advertisement shall be made in the local newspaper of each county in which the project is located within 30 days of L&D approval. At the discretion of the PgM, notice of L&D advertisement may also be made in the local Legal Organ if covered by multiple counties. Advertisements shall run once per week for four consecutive weeks.

For all projects with Federal action or funding, a L&D Report shall be prepared in accordance with PDP Section 7.1. The Report shall be routed for approval by the Chief Engineer. Federally funded projects shall follow the process listed in PDP Section 7.1.1 for advertisement of the approved L&D. Projects with Federal action only shall require the approved L&D Report, however at the discretion of the TIA PgM will not require environmental document approval prior to advertisement and shall follow advertising procedures previously noted in this section.

12.1.4 Concept Revisions

Any changes to the original approved Concept Report for TIA funded projects shall be summarized in a technical memorandum. This technical memorandum shall be included with the original approved Concept Report and will serve as a Revised Concept Report. Revised Concept Reports require PgM concurrence and GDOT's approval.

12.2 Roadway Design

Unless otherwise determined by the TIA Office during project development, roadway design as part of a blended project that requires future federal funding is required to follow the <u>GDOT PDP manual</u> and all policies, procedures, and manuals required by GDOT.

Roadway design as part of a 100% TIA funded project or TIA project blended with State funds required to follow the TIA Manual. Project Design Teams should note that all funds for TIA Projects are authorized at Project Kickoff. Therefore, every effort should be made to ensure ROW acquisition can begin as soon as possible. For these projects, ROW acquisition is not contingent on environmental acceptance.

12.2.1 Roadway Design Specifications

For 100% TIA funded projects or TIA projects blended with State funds that are On-System, roadway projects shall be designed in accordance with the policies, guidelines, and standards published and referenced in the <u>GDOT Design Policy</u>



Manual (DPM), the design criteria published in the American Association of State Highway and Transportation Officials (AASHTO) AASHTO-A Policy on Geometric Design of Highways and Streets and AASHTO-A Policy on Design Standards Interstate System, the guidelines and standards published by the FHWA, and the Manual on Uniform Traffic Control Devices (MUTCD).

Current GDOT Standard Specifications for the Construction of Transportation Systems (as supplemented by the Supplemental Specification Book, Special Provisions, Supplemental Specifications, GDOT Standards, and Construction Details) will be used in the design and construction of On-System projects.

For TIA funded projects that are Off-System, and are Local Let, the Local Government will determine the roadway design criteria. The following are suggested minimum standards for roadway design:

- For ADT > 400, AASHTO: A Policy on Geometric Design of Highways and Streets
- For ADT ≤ 400, AASHTO: Guidelines for Geometric Design of Very Low-Volume Local Roads

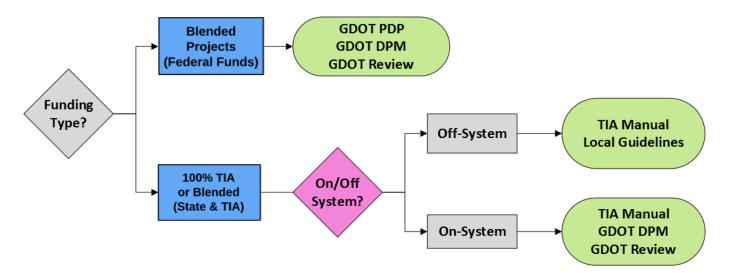


Figure 12-1 TIA Roadway Design Guidance

12.3 Responsibilities

The roles and responsibilities of the EOR and Local Government related to roadway design of TIA projects are outlined in the following sections.

12.3.1 Engineer-of-Record

The EOR is responsible for all aspects of design, plan development, and specifications related to a roadway design. Designs and plans for On-System roadways shall follow the DPM. Every design must be certified (signed and sealed) by a licensed engineer registered in Georgia.

Engineering firms providing design work for On-System roadways are to be prequalified with GDOT area classes necessary for the project.

The EOR is responsible for ensuring that roadway designs are complete, accurate, and constructible. Construction plans should be of sufficient quality to ensure that the contractor can easily understand the design and how the roadway is to be constructed. If errors occur during construction due to errors on the roadway plans, the EOR is responsible to provide a remedy at no additional cost to the project. The EOR may be held responsible for covering the additional contractor costs, liquidated damages, or legal claims because of errors and/or omissions in the plans.



12.3.1.1 Local Government

For Off-System roadways, the Local Government shall submit plans and specifications to the PgM for review before Letting the project.

12.3.1.2 Survey and Mapping

The electronic database shall be completed in accordance with the <u>GDOT Survey Manual</u>, unless deviations are approved by the PgM or the State TIA Administrator.

For GDOT Let projects that are On-System, Quality Control (QC) Check for database and cad files will be reviewed and approved by GDOT. For GDOT Let projects that are Off-System, the need for a QC Check will be at the discretion of the TIA PgM.

12.3.2 Soil Survey

Soil survey(s) will be required at the discretion of the PgM.

The soil survey(s) will follow the requirements and guidance set forth in GDOT's PDP, <u>GDOT's Guidelines for the Geotechnical Engineering Manual</u>, and by GDOT's Office of Materials and Testing Engineer.

The soil survey(s) should be coordinated and developed as soon as possible to provide safe, effective, and cost-efficient recommendations for the project design. The PgM will have the authority to accept all soil surveys for Off-System projects. GDOT's Office of Materials and Testing will be responsible for providing acceptance for all On-System projects.

If there are any concrete box culverts that are new or are being completely replaced, the PgM and the EOR shall determine if a Culvert Foundation Investigation is to be performed as part of the Soil Survey.

12.3.3 Pavement Evaluation and Design

The need for a Pavement Evaluation will be determined by the TIA Office for all GDOT Let projects.

For TIA funded projects that are On-System, pavement design and evaluation submittals shall be developed in accordance with GDOT's PDP and GDOT Pavement Design Manual and reviewed and approved by the PgM.

For TIA funded projects that are Off-System and Local Let, pavement evaluation and design shall follow local guidelines and recommended practices established by the Local Government. GDOT can provide pavement design recommendations and review if requested by the Local Government and agreed to by GDOT.

For TIA funded projects that are Off-System and GDOT Let, pavement design will be approved by the PgM.

For On-System, the recommended pavement design life is 20 years. If a 20-year design is not achievable, the EOR should reduce/remove section thickness and/or layers from the top of the pavement structure in lieu of the base or sub-grade.

12.3.4 FAA Obstruction Evaluation

The TIA Program has numerous projects near local and regional airports. As such, an FAA Obstruction Evaluation should be performed by the design consultant between the concept and FPR stage of the project. The following website can be used to determine if the project requires a notice.

Enter the location of the project into the FAA website (https://oeaaa.faa.gov/oeaaa/external/portal.jsp) to see if the project is within the boundaries of any nearby airports and if an evaluation is needed.

If a notice is required, the design consultant will need to enter the survey and plan data (this includes, but not limited to, site elevation, structure elevation, and any fixtures and their heights) into the website. After evaluation, FAA will issue determination letters for each structure that has been submitted.



If required, a general note is put into the final plans requiring the construction contractor to submit for evaluation of any construction equipment. An example note:

Any vertical construction equipment, such as cranes, in excess of 50 feet above bridge elevation must be evaluated by the FAA. Evaluation by filing of "Notice of proposed construction" FAA Form 4760-1 must be accomplished not earlier than 18 months and not later than 120 days prior to construction. E-file at https://oeaaa.faa.gov/oeaaa/external/portal.jsp

12.4 Municipal Separate Storm Sewer System (MS4)

All TIA funded projects must comply with the MS4 permit for those areas outlined in the <u>2022 MS4 Permit</u>. Consultants may be required to file a non-MS4 report.

Additional MS4 Resources:

- EPD Website for Municipal Stormwater
- GDOT MS4 Program Website

12.5 Highway Signing and Pavement Markings

For all TIA projects, highway signing and pavement markings will be installed in accordance with the MUTCD. For On-System TIA projects, highway signing and pavement markings will also conform to the <u>GDOT Signing and Marking Design</u> <u>Guidelines</u>.

12.6 Traffic Engineering and Operations

TIA projects that are On-System or GDOT Let, regardless of funding, will follow the GDOT processes for the installation of all traffic control devices.

Design traffic volumes may not be necessary for TIA funded projects and for which the project description included a specific number of lanes. Design year volume is important and may be necessary on various project types and may be needed for other design elements.

GDOT may require an Intersection Control Evaluation (ICE) study for certain projects and this should be a role of the Design Consultant to verify this need.

12.6.1 Roundabouts, Alternative Interchanges, and Intersection Design

For TIA funded projects that are On-System see GDOT DPM and State website for Modern Roundabouts.

For TIA funded projects that are Off-System, the use of conventional intersection solutions that meet both the safety improvement goals and budget limitations should be considered when roundabout alternatives exceed the project budget.

All On-System projects will be reviewed by GDOT Traffic Operations.

An Interchange Modification Report (IMR) may be needed in some cases but will need to be coordinated with the FHWA through the GDOT Planning office.

12.6.2 Traffic Control Signals

Traffic control signal permits, including signal modification permits, approved by the GDOT Chief Engineer will be required for all new traffic control signals installed for On-System TIA projects only. Off-System TIA projects with new traffic control signals will follow MUTCD's requirements and will be approved by the local agencies in accordance with the MUTCD.

12.6.3 Intelligent Transportation Systems (ITS)

Blended projects with federal funds and locally funded projects on the State highway system will follow the GDOT PDP process for the installation of all ITS improvements. The installation of ITS improvements on TIA projects, which include



local funding on Off-System highways, will follow the TIA Manual. The option of implementing minor ITS projects without construction plans will be reviewed and approved by the PgM on a case-by-case basis.

12.7 Bridge Design

If a project involves a bridge that carries the interstate or a bridge crossing the interstate, FHWA coordination is required and may involve submitting plans to FHWA for review.

12.7.1 Bridge Design Specifications

Bridges are to be designed using the most recent editions of the Georgia DOT Standard Specification – Construction of Transportation Systems, <u>GDOT Bridge and Structures Design Manual (BDM)</u> and AASHTO Bridge Design Specifications as designated below. It is preferred that new bridges be designed using the AASHTO Load and Resistance Factor Design (LRFD) Bridge Design Specifications.

Blended projects with federal funds must conform to FHWA requirements.

For 100% TIA funded projects or TIA funded blended with State funds, the following are the AASHTO Bridge Design Specifications to be used for bridge design:

- <u>Bridge Widening Projects</u>: AASHTO Bridge Specifications or the version of the specifications in place at the time the bridge was originally designed with prior approval from GDOT Office of Bridges and Structures.
- New Off-System Bridges (Not on National Highway System [NHS]): AASHTO LRFD Bridge Design Specifications, 9th Edition-2020 preferred, AASHTO Standard Specifications for Highway Bridges, 2002, 17th Edition, acceptable, unless otherwise designated by the Bridge Office
- New On-System Bridges (Not on NHS): AASHTO LRFD Bridge Design Specifications, 9th Edition 2020.
- New On-System Bridges (On NHS): AASHTO LRFD Bridge Design Specifications, 9th Edition 2020 to accommodate full FHWA oversight.

In the event of conflicting information or guidance, the GDOT Bridge and Structures Design Manual supersedes the AASHTO Bridge Design Specifications.

12.7.2 Responsibilities

The roles and responsibilities of GDOT, PgM, EOR and Local Government related to preliminary bridge design, bridge hydraulics and final bridge design of TIA projects are outlined in the following sections.

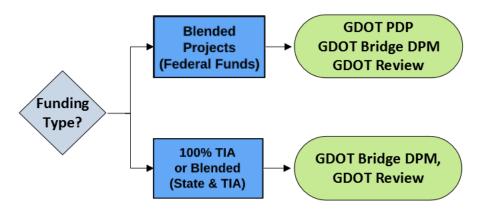


Figure 12-2 TIA Bridge Project Design Guidance

12.7.2.1 GDOT Office of Bridge Design

For all bridges, the GDOT Office of Bridge Design will provide the necessary submittal reviews, guidance, and design acceptance.



12.7.2.2 Engineer-of-Record

The EOR is responsible for all aspects of design, plan development and specifications related to a bridge or structure design. Bridge and structure designs and plans shall follow the GDOT Bridge and Structures Design Manual. Every bridge design must be certified by a licensed engineer registered in Georgia specializing in bridge design.

All Engineering firms providing bridge and structure design work bridges are to be prequalified with GDOT in Area Classes 4.01a, 4.01b (with quality assurance from another prequalified firm), 4.02, and/or 4.04 as necessary for the project. The Bridge Foundation Investigation (BFI) and Wall Foundation Investigation (WFI) should be completed by a firm pregualified with GDOT Area Class 6.02.

12.7.2.3 Local Government

For Off-System bridges that are Local Let, the Local Government and the Local Government's EOR shall certify that:

- The bridge configuration meets the drainage design and stream crossing requirements of the local jurisdiction and FEMA and creates no adverse effects to flood elevations or flood plain limits in the surrounding area.
- The bridge is designed to resist the hydraulic forces determined by the applicable design guidelines and imposed on the structure by the waterway.
- The foundations are designed to be installed below the anticipated scour depths into competent bearing material, and in accordance with the BFI.
- The scour protection is designed to resist anticipated velocities at the crossing.

The Local Bridge Design Certification shall be submitted to the PgM before Final Acceptance of the project.

12.7.3 Bridge Details

The following sections outline guidelines for design and detailing of bridges that will improve safety and lower long-term maintenance costs for the owner.

12.7.3.1 Superstructure

Whenever possible, minimize the number of deck joints in bridge spans and locate deck joints to provide access for future maintenance and replacement.

The use of Fracture Critical Members (FCMs) is not permitted on highway bridges without written authorization from GDOT Office of Bridge Design. Design and detail FCMs to allow full access for inspection. Provide a minimum inside depth of six feet to facilitate interior inspection of box girders. To allow free flow of air during inspections, include access openings of 3'-0" diameter minimum into all cells, and between cells of the girders. Provide outside access opening covers in areas that can be accessed without impacting traffic. Provide hinged access opening covers with hinges located on the inside of the box girder.

Timber bridges, masonry bridges and structural plate arches are not permitted for TIA projects. Intermediate hinges in bridge girders or spans are also not permitted for TIA projects.

Design bridge superstructures, joints, and bearings to allow access for long-term inspection and maintenance.

12.7.3.2 Bridge Foundations

Design foundations for bridges over waterways to accommodate predicted scour depths. The EOR will determine the scour potential of each bridge crossing using the BFI and H&H Study.

12.7.3.3 Bridge Railing and Barriers

All barrier systems shall meet current GDOT crash test and other safety requirements unless prior approval from the GDOT Bridge Office is obtained. Refer to the GDOT BDM for the current approved GDOT Bridge Railing Standards.



12.7.3.4 Hydraulic and Hydrological (H&H) Studies

GDOT requires an H&H Study and Preliminary Bridge Layout to be submitted and accepted prior to advancing to the next phase, regardless of funding source. H&H Study Reports for these projects must follow the guidelines and policies in the GDOT Drainage Manual and include the Preliminary Bridge Layout in the study appendices. The GDOT Drainage Manual outlines the content and format of H&H Study Reports.

12.7.3.5 Bridge Foundation Investigations (BFI) and Wall Foundation Investigations (WFI)

A BFI will be required for all bridge projects regardless of the funding source. In cases where they are available for use on bridge replacement projects, existing BFIs may be used in lieu of a new BFI Report, with prior approval from OMAT. Prior to undertaking a TIA project, an initial search shall be undertaken with GDOT's Office of Materials and Testing to determine if approved BFI Report(s) are available for use. The BFI will make all necessary recommendations for the project and will follow the format required by GDOT's Office of Materials and Testing. For On-System bridges, the BFI shall be submitted to GDOT for review and approval.

Requirements and procedures for WFI reports shall closely follow those specified for BFIs above.

12.7.4 Retaining Walls

Retaining walls will be designed according to the guidelines in the GDOT BDM. Wherever possible, the use of GDOT standard walls and contractor designed walls is encouraged. A WFI will be required for walls outlined in the GDOT's Geotechnical Design Policy and Guides.

12.7.5 Bridge Condition Surveys

For On-System bridges to be widened and/or rehabilitated, the Office of Bridge Design - Bridge Maintenance Unit shall complete Bridge Condition Surveys in accordance with the GDOT PDP. The PgM will obtain Bridge Condition Surveys for these projects from Office of Bridge Design - Bridge Maintenance Unit. As determined eligible by the State TIA Administrator, recommended repairs from the Bridge Condition Survey report shall be incorporated into the final design of the bridge.

12.7.5 Shop Drawings and Construction Services

During construction, the EOR will provide shop drawing and Request for Information (RFI) review. GDOT will process and return shop drawings to the contractor following acceptance by the EOR. The PgM will coordinate processing of the shop drawings, RFIs and construction correspondence. All submittal related correspondence will be submitted to the PgM for distribution to appropriate review personnel.

The EOR will review shop drawings to ensure that fabrications are consistent with the designer's intent. A partial list will include, but not be limited to:

- Structural steel framing
- Precast, pre-stressed concrete beams
- Precast segmental concrete units
- Bearings
- Expansion joints
- SIP deck forms
- Sound Barriers
- Sign structures
- Signal poles
- Bridge appurtenances
- High mast lighting
- Fencing
- Deck Drainage System
- Utility Hangers



Contractor Designed Elements

Shop drawing review may be required for major items of temporary works that might affect the public, impose significant loadings on the permanent works, and/or require an engineered design. A partial list includes, but is not limited to:

- Temporary structures
- Cofferdams
- False work, shoring and formwork
- Superstructure erection
- Construction staging and traffic control
- Demolition plans

12.7.5.1 As-Built Plans

As-Built Plans will be prepared for all structures on the project. This will include the as-built foundation drawings as well as the construction documents used for the structure, noting all field change corrections made to the drawings. The PgM will store As-built drawings produced from construction and transfer the final drawings to the appropriate project sponsor upon project closeout.

12.7.6 Load Rating

The EOR will complete a load rating and develop a Load Rating Report for each bridge design which includes a statement certifying that the bridge has the capacity to carry the minimum design loading specified in the TIA Manual and does not require posting for current State legal loads. The Statement of Load Rating Certification will include the professional seal and signature of a registered professional engineer in the State of Georgia.

Load rating procedures outlined in AASHTO's Manual for Bridge Evaluation, current edition, shall be followed. Bridges designed using the AASHTO Standard Specifications may be rated using either Load Factor Rating (LFR) or LRFD methodologies. Bridges designed using the AASHTO LRFD Specifications must be rated using Load and Resistance Factor Rating methodologies.

Load Rating Reports will be submitted to the PgM upon certification of final bridge plans. The PgM will submit the reports to the Office of Bridge Design for verification of load capacity and acceptance prior to project Letting. If changes occur between submittal of final plans and construction of the bridge that affect the load capacity of the bridge, it is the responsibility of the EOR to submit revised Load Rating Reports to the PgM and GDOT for rerating. A certified copy of the Load Rating Report and Final Bridge Plans will be submitted to Office of Bridge Maintenance for inclusion in the maintenance records for each bridge.

If an independent load rating, performed by GDOT, demonstrates that the capacity of the bridge design is less than 95% of the design load, the EOR will be responsible for any additional design and construction costs associated with correcting the deficiency in a manner that increases the capacity to a level that meets the design load requirements.

12.7.7 Final Acceptance

For all bridge projects, all project deliverables will be in accordance with GDOT PDP and GDOT Bridge and Structures Design Manual. A partial list includes but may not be limited to:

- Design and As-Built Plans
- Load Rating Report
- H&H Studies Reports including scour calculations
- As-Built Foundation Plans
- BFI used for design
- Shop Drawings



12.8 Design Exceptions/Variances (DE / DV)

For GDOT Let and On-System projects, all DEs and DVs shall be submitted and reviewed by GDOT's Office of Design Policy & Support (DP&S) regardless of funding source. It is highly encouraged that any DE/DV be discovered and introduced at the concept stage or as early as possible. The Concept Report should identify these variations and should include them in the report for review and approval. If a DE and/or DV are to be obtained, then the format and procedures outlined in the GDOT PDP and in the GDOT DPM are to be followed.

GDOT's Chief Engineer will approve all applicable DE and DV. These DE and DV reports will be submitted to the:

- PgM for review and concurrence with copies sent to the TRC and TIA Office
- Chief Engineer for approval following the process outlined in the GDOT DPM with copies sent to the PgM, TRC, and TIA Office

12.9 Field Plan Review (FPR)

The PgM is responsible for facilitating plan reviews, preparing FPR reports, reviewing FPR responses, and distributing final FPR reports. The PgM shall invite the project sponsor, district representatives including district construction, traffic operations, and area engineer, along with TIA SME's and utility owners. FPR comments and actions shall consider impacts to scope, schedule, and budget prior to implementation on a project. The Environmental documentation shall be in progress prior to the FPR but does not have to be completed. In addition, the soil survey report, if required, should be complete prior to the FPR. Any DE and/or DV should be approved as well.

Except with the approval of the PgM, a minimum of one FPR, conducted at the preliminary plan completion level, is required for 100% TIA funded projects that are GDOT Let or are On-System. At the request of the EOR and with approval from the PgM, additional FPRs may be held for complex projects and projects that have many ROW or utility impacts.

It is recommended that Local Let, Off-System major projects conduct at least one FPR. The TIA office and appropriate GDOT staff shall be invited to the FPR. Minor projects are exempt from this requirement.

A FPR may be performed in-person or via Teams or both, at the discretion of the TIA office.

12.10 Airport Projects

The work and materials for airport projects shall be in strict and entire conformity with:

- Laws of the State of Georgia
- GDOT's Standard Specifications, Current Edition, and the Supplemental Specifications
- Federal Aviation Administration's Standards for Specifying Construction of Airports, dated February 17, 1989
- GDOT's Special Provision 107-1-01-SP (Legal Regulations and Responsibility to the Public)
- GDOT's Special Provision 108-1-01-SP (Prosecution and Progress)
- GDOT's Special Provision 109-1-01-SP (Measurement and Payment)
- "TERMS AND CONDITIONS OF ACCEPTING AIRPORT IMPROVEMENT PROGRAM GRANTS," dated April 13, 2012

Copies of any of these compliance documents are available from <u>GDOT's Aviation Programs</u> office or the Atlanta Airports District Office of the Federal Aviation Administration.

12.11 Lighting

Lighting agreements for projects on state routes will be prepared by the PgM for execution with local governments. Lighting agreements are not required for non-SR projects.

Lighting plan reviews of photometrics and as-builts will be reviewed and approved by GDOT Design Policy and Support, Lighting Group. The TRC and the PgM will perform all reviews, and approvals for non-SR projects.

Design must comply with the GDOT DPM, Chapter 14, Lighting.



13 Construction Administration

13.1 Preconstruction Conference

For GDOT Let projects, the PgM is responsible for coordinating a preconstruction conference with the contractor, CEI provider, District / Area Office, utilities, railroads, etc. after project award, but prior to beginning of construction activities. The format of the preconstruction conference will follow GDOT standards as outlined on Georgia DOT's standard specifications of construction systems: The Source.

For Local Let projects, the PgM and TRC should be invited to all preconstruction conferences. The PgM reserves the right to attend or decline.

13.2 Construction Engineering and Inspection (CEI)

For blended projects, CEI shall be the responsibility of the District and/or TIA and performed in accordance with all GDOT manuals, specifications, plans, and testing requirements. GDOT Manuals include but are not limited to the GDOT Construction Manual, GDOT Bridge Manual, and GDOT Sampling, Testing and Inspection Manual.

For GDOT Let 100% TIA projects, the scope of work for inspection will be determined by the PgM and submitted to the State TIA Administrator for concurrence.

For Locally Let projects, the scope of work for inspection will be the responsibility of the Local Government, unless determined otherwise by the PgM.

13.3 Construction Audits

For TIA projects blended with Federal funds the standard GDOT procedures will apply.

For 100% TIA projects or TIA projects blended with State funds, the PgM is responsible for conducting audits on both On-System and Off-System projects. GDOT may conduct random audits for validation.

13.4 Use of Software during Construction

On GDOT Let projects software will be used for all daily reporting, submittals, submittal tracking, materials certifications, testing reporting, and payment estimates as follows:

AASHTOWare – Projects let to construction after February 2022 Site Manager – Projects let to construction prior to February 2022

ProjectWise shall be used for project documentation on any On-System project.

13.5 Materials

All construction materials shall comply with current <u>Qualified Product List (QPL) requirements</u>, and <u>GDOT Standard Specifications for the Construction of Transportation Systems</u>, as supplemented by the Supplemental Specification Book, Special Provisions, Supplemental Specifications, Standards, and Details. Products and suppliers are defined on the QPL and they have a defined inspection frequency.

For GDOT Let Projects, GDOT's Office of Materials and Testing will provide all required testing in accordance with all applicable GDOT Manuals, which include, but are not limited to, the GDOT Construction Manual, GDOT Bridge Manual, and GDOT Sampling, Testing, and Inspection Manual.

The CM or designated CEI provider will complete all required material certification documentation to ensure all sampling and testing is completed as required for the project. For GDOT Let, On-System projects Material Certifications and Material Reconciliations are to be submitted and tracked through Site Manager or AASHTOWare following the requirements as outlined in the Source and may be modified from time to time by TIA specific policies. Material Certification and Material Reconciliation ensures all materials used in the Work are acceptable.



For material Quality Assurance (QA) on Local Let, Off-System Projects a Material Certification Statement must be provided in support of the reimbursement of costs.

For material QA on Local Let, On-System Projects see section 13.5.1 of the TIA Manual.

13.5.1 Local Let Responsibilities for Material Quality Assurance of On-System Projects

For Local Let, On-System, the Local Government shall provide a consultant prequalified in Area Classes 6.04a and 6.04b to perform the Materials Testing. Local Governments shall adhere to the following process:

- Submit a Local Let Material QA form to the PgM to obtain approval of materials testers
- Ensure QPL sources are utilized and that only testing personnel with GDOT certifications perform testing on the project; all testing must be in accordance with GDOT's Sampling Testing and Inspection Manual
- Complete a quarterly Materials Certificate (MC) Checklist and submit to the PgM as required in GDOT Construction Manual; contact PgM to obtain a Checklist prior to starting work on the project
- Provide test results to the GDOT Office of Materials and Testing (OMT) and via hardcopy to the TIA CM or CEI designee
- Complete required MC Checklists and submit to the PgM as required in GDOT Construction Manual, unless otherwise determined by the PgM

13.6 Project Closeout

13.6.1 Closing Conference

For blended projects, all GDOT Let projects and Local Let, On-System projects, closing conference follows the requirements as outlined in The Source and Standard Specifications as may be modified from time to time by TIA specific policies.

For Local Let, Off-System projects, final inspection of work is the responsibility of the local sponsor.

13.6.2 Final Audit

For GDOT Let or On-System projects, the CM or designated CEI provider is responsible for completing the TIA CM's Closeout Checklist Form prior to requesting Final Audit. If any of the checklist items have discrepancies, they must be resolved or be in the process of being resolved before requesting a Final Audit. The CM or designated CEI provider, will compile a list of all discrepancies and completion status. This list should be attached to the front of the Final Package and checked off by the CM as each item on the list is resolved. Once all the items have been resolved, the PgM or designee will complete the Final Audit. The Final Audit can be completed without the Materials Certificate being received, but the lack of the Materials Certificate shall be noted on the Final Audit. The project cannot be closed out until the Materials Certificate is received.

13.6.3 Final Payment

For GDOT Let projects, the CM will notify the PgM and GDOT that the project is ready for Final Audit. This request comes after the CM has reviewed the project records using the Construction Manager's Closeout Checklist (prior to requesting a final audit) as a guideline. Upon completion of the Final Acceptance stating final payment authorization date, the PgM will transmit final quantities to the Contractor.

For Local Let projects, final payment is made upon receiving final invoice from the Local Government entity.

These will follow the TIA Contract Closeout standard process.

13.6.4 As-Built Plans

For GDOT Let projects, the PM will coordinate with the EOR throughout construction to determine if field changes can be completed as a redline change or if revisions to the plans by the EOR are needed. The PM will coordinate and distribute plan revisions as required and ensure the Contractor has the most current set of plans. Redlined Final As-Built plans



should be compiled by the CM or designated CEI provider as directed and submitted to the PgM for review and processing.

For Local Let, On-System projects, the local sponsor shall provide As-Built plans to GDOT prior to Final Acceptance.

For Local Let, non-bridge Off-System projects, local sponsors are responsible for obtaining As-Built plans. For bridge projects refer to Section 12.7 for requirements.

13.6.5 Final Acceptance

For On-System and GDOT Let projects, the TIA Office will follow GDOT procedures.

For local let, Off-System projects, the Local Government shall provide written notification to the TIA Office of certification of work and final acceptance.

14 Quality Management

14.1 Introduction

Quality management includes all the activities that are used to direct, control, and coordinate quality. These activities include formulating a quality policy and setting quality objectives and procedures. They also include quality planning, Quality Control (QC), Quality Assurance (QA), and quality improvement.

Each consultant and contractor is responsible for quality management on their respective contract. The PgM may request to review consultant or contractor quality management plans.

14.1.1 Quality Assurance Elements

The basic QA elements include but are not limited to the following:

- Development and implementation of quality plans, procedures, and instructions
- Quality management organization and personnel qualifications
- Design and management control
- Review and control of contract drawings and text documents
- Procurement control, quality records and electronic data file control
- Indoctrination, training, and certification
- Verification of all quality requirements (to include reviews, audits, and surveillance)

14.1.2 Quality Control Elements

The basic QC elements will include execution of any (or all) of the following, as applicable:

- Inspections of works
- Tests of materials and equipment
- Control of calibration of measuring and test equipment
- Audit of processes and systems

14.1.3 Design

The <u>GDOT QC and QA Program</u> has been developed by the Engineering Division of GDOT to ensure the engineering, design, plans and quantities developed by our design offices are supported by comprehensive studies and sound engineering judgment; comply with established policies, guidelines and standards; and contain appropriate design flexibility and cost saving measures. This program shall be the basis for QC/QA on the TIA program.



14.1.4 Construction

At a minimum, QC/QA shall be performed in accordance with GDOT's Sampling, Testing, and Inspection Manual, standard specifications, supplemental specifications, special provisions, or any other sampling or testing requirements such as material provider's recommendations.

For detailed instructions, refer to The Source.

15 Safety

This section defines the responsibility for safety for the PgM and each participant involved in the Program including GDOT, contractors, consultants, designers, and inspectors. The contracts assign the responsibility of safety risks on the program to the party most able to control and mitigate those risks.

In addition, the PgM recommends and encourages a "safety culture" on the program which makes it clear that all participants are expected to report known hazards to the appropriate individual or entity responsible for the involved work, as well as perform their own activities in full compliance with applicable laws and regulations.

The PgM is not contracted to provide comprehensive safety services to GDOT. The PgM is required to have a safety program in place for its employees developed in accordance with the local laws and regulations. The PgM safety program includes as a minimum, education, and training for the PgM staff commensurate with company policy and the hazards expected to be encountered during the program. The PgM is ultimately only responsible for the safety of its employees.

The PgM is not responsible for job site safety, construction means and methods, or the safety for the owner, contractors, consultants, designers, and inspectors. On TIA construction projects, the contractor is solely responsible for the safety and welfare of his employees and for the protection of property, other program stakeholders and the general public. The contractor must comply with all Federal, State, local and county safety regulations, applicable to his work site.

IMPORTANT: All program participants have a duty to call attention to observed unsafe conditions as a key step in preventing injuries to themselves or others. In addition to this basic ethical requirement, other responsibilities for job site safety derive from statutes, regulations, case law and contracts.



Appendix A – Acronyms

Abbreviation	Description				
AASHTO	American Association of State Highway and Transportation Officials				
AASHTOWare	Cost estimation software utilized by GDOT				
BFI	Bridge Foundation Investigation				
BV	Buffer Variance; impacts to vegetative buffers of Waters of the State				
СВА	Construction Bidding Administration				
CEI	Construction Engineering and Inspection				
CSRA	Central Savannah River Area Special District				
CM	Construction Manager				
CRP	Citizens Review Panel				
DBE	Disadvantaged Business Enterprise				
DC	Design Consultant				
DE	Design Exception				
DP&S	GDOT's Office of Design Policy & Support				
DPM	GDOT Design Policy Manual				
DUE	District Utility Engineers				
DV	Design Variance				
ECB	Environmental Compliance Bureau				
EOR	Engineer of Record				
EPD	Environmental Protection Division				
	Environmental Procedures Guidebooks (formerly known as 'EPM',				
EPG	Environmental Procedures Manual)				
FCM	Fracture Critical Members				
FEMA	Federal Emergency Management Agency				
FHWA	U.S. Department of Transportation, Federal Highway Administration				
FPR	Field Plan Review				
GDNR	Georgia Department of Natural Resources				
GDOR	Georgia Department of Revenue				
GDOT	Georgia Department of Transportation				
GEPA	Georgia Environmental Policy Act				
GSFIC	Georgia State Financing and Investment Commission				
GUCC	Georgia Utility Coordination Council				
GUPS	Georgia Utility Permitting System				
HOGA	Heart of Georgia – Altamaha Special District				
Н&Н	Hydraulic and Hydrological Studies				
IGA	Intergovernmental Agreement between GDOT and GSFIC dated 1/1/2013				
ITS	Intelligent Transportation System				
L&D	Location and Design				
LFR	Load Factor Rating				
LRFD	Load and Resistance Factor Design				
LRFR	Load and Resistance Factor Rating				
MC	Master's Certificate Checklist				
MOU	Memorandum of Understanding				
MPO	Metropolitan Planning Organization				
MS4	Municipal Separate Storm Sewer System				



Abbreviation	Description
MUTCD	Manual on Uniform Traffic Control Devices
NEPA	National Environmental Policy Act
NHPA	National Historic Preservation Act
NHS	National Highway System
NPDES	National Pollutant Discharge Elimination System
NTP	Notice to Proceed
O.C.G.A.	Official Code of Georgia, Annotated
OES	Office of Environmental Services
OMT	Office of Materials and Testing
PDP	GDOT Plan Development Process
PgM	In general terms refers to the Program Manager and supporting team
PM	Project Manager
PS&E	Plans Specifications, Special Provisions and Final Estimates
QA	Quality Assurance
QC	Quality Control
QPL	Qualified Product List
RFI	Request for Information
ROW	Right-of-Way
RFQ	Request for Qualifications
RV	River Valley Special District
SAAG	Special Assistant Attorney General
Section 404	Section 404 of the Clean Water Act; impacts to Waters of the U.S.
SFTP	GDOT Secure File Transfer Protocol
SG	Southern Georgia Special District
SME	Subject Matter Expert
SUE	Overhead/Subsurface Utility Engineer
SUO	State Utilities Office
SWMP	Storm Water Management Program
TIA	Transportation Investment Act of 2010
TIAUE	TIA Utility Engineer
TRC	TIA Regional Coordinator
UAM	GDOT Utility Accommodations Manual
UPC	Utility Protection Center
USACE	U.S. Army Corps of Engineers
UAS	Utility Adjustment Schedules
USFWS	U.S. Fish and Wildlife Service
VE	Value Engineering
WFI	Wall Foundation Investigation
WRD	Wildlife Resources Division



Appendix B – Definitions

<u>Blended Project</u> – A project funded in part with non-TIA funds.

<u>Bridge Foundation Investigation (BFI)</u> – Engineering report documenting the existing subsurface conditions, identifying the recommended foundation type, and defining the parameters to be used for the design of bridge foundations.

<u>Chief Engineer</u> – The Engineering Executive appointed by the Commissioner, or other authority as provided by law, and acting for GDOT within the authority and scope of duties assigned.

<u>Construction Manager</u> – PgM staff member responsible for coordinating field operations, CE&I and materials testing coverage and overall execution of construction of the TIA projects.

<u>Design Build</u> – Combining of design engineering and other preconstruction services with construction services into a single contract.

<u>Design-to-Budget</u> – A requirement in the contract between an owner and a design professional that requires the design professional to design a project which meets the needs of the owner without exceeding the budget established by the owner or redesign the project at no additional cost to the owner if the construction bid exceeds the owner's budget.

<u>Engineer of Record (EOR)</u> – A licensed professional engineer in Georgia who develops and/or is responsible for the overall design, design criteria and components of a project. This person may delegate responsibility for the design of a system or component part to a delegated engineer but is ultimately responsible for the delegated engineer's design and the project's total design.

<u>Environmental Documentation</u> – The documentation necessary to ensure a project's compliance with the National Environmental Policy Act of 1969 (NEPA), and/or all Federal and State permit requirements as applicable.

<u>Local Government</u> – Any municipal corporation, county, or consolidated government created by the General Assembly or pursuant to the Constitution and laws of the State of Georgia.

<u>Load Resistance Factor Design (LRFD)</u> – A design methodology for structures that utilize load factors developed using probabilistic methods for the design of structural elements.

Minor Project – A minor project could be classified to be a significant project but is not always a significant project.

Off-System – Work on a Local road system that does not meet the definition of an On-System route.

<u>On-System</u> – Work on a roadway designated as a State route, US route, Interstate route, or locally owned roadway that traverses over or under a State, US, or Interstate route which is designated to be designed to On-System criteria by the Chief Engineer.

<u>Political Subdivision</u> – The State or any local subdivision of the State or public instrumentality or public corporate body created by or under authority of State law, including, but not limited to, municipalities, counties, school districts, special taxing districts.

<u>Plan Development Process (PDP)</u> – GDOT manual that outlines the current process of project development from the project identification through construction award or Final Acceptance for all Federal aid projects under GDOT oversight.



<u>Plan Presentation Guide (PPG)</u> – A guide that sets forth the criteria for the electronic appearance and format of plans. These criteria establish, define, and clarify procedures and standards for plans to be used by GDOT. These criteria are not intended to establish design processes; rather, they are guidelines to assure that all drawings have uniform appearance and include all pertinent information, avoid unnecessary information, and reflect high quality workmanship.

<u>Program Manager (PgM)</u> – GDOT's consultant representative that will manage, provide oversight, and approve all project phases and activities to ensure that all elements of the work meet the required laws, regulations, quality, design standards, schedule, and budget. The PgM has delegated authority to act on GDOT's behalf and will provide the resources and expertise necessary to understand, and be responsible for, a broad spectrum of services related to the TIA Program.

<u>Project Manager (PM)</u> – PgM staff, GDOT staff or consultant representative responsible for leading a project from its inception to execution, including planning, execution and managing the people, resources, and scope of the project.

<u>Soil Survey</u> – A report developed to provide project designers with safe, effective, and cost-efficient recommendations for the design of roadway foundations, embankments, and the treatments for Geotechnical and other problems on the project. Soil Survey reports may also be used by contractors to assist in preparing bids and by project engineers during construction to identify and help solve problems.

<u>Special Districts</u> – The twelve Special Districts based on existing Regional Commission boundaries as created by O.C.G.A. § 48-8-241. The Regional Commissions <u>boundary map</u> can be found on the Georgia Association of Regional Commissions website.

<u>State TIA Administrator</u> – GDOT representative from the TIA Office with oversight responsibility for the TIA Program and the TIA Regional Coordinator(s).

<u>Storm Water Management Program (SWMP)</u> – The program to provide requirements to Local Governments and staff on addressing storm water runoff to both improve storm water quality and reduce quantity impacts and protect downstream areas and receiving waters. It does not cover construction site sediment and erosion control practices. Guidance on these practices can be found in the Manual for Erosion and Sediment Control in Georgia.

<u>Subject Matter Expert (SME)</u> – An individual who exhibits the highest level of expertise in performing a specialized job, task, or skill within the organization performing the work; anyone with in-depth knowledge of the subject.

<u>TIA Regional Coordinator (TRC)</u> – GDOT representative from the TIA Office with responsibility for coordinating with the Local Governments within their assigned Special District.

<u>The Source</u> – The Source is GDOT's online reference for contractors. Within The Source, contractors will find information pertaining to bridges, culverts and retaining walls, construction manual, erosion control, earthwork, pavements, special provisions, specifications, and sampling, testing, and inspection.

<u>Transportation Investment Act of 2010 (TIA)</u> – The Act that created 12 Special Districts of the State and authorizes elections to be held in each Special District which would allow each Special District independently of any other Special District to approve and authorize the imposition of a Special District transportation sales and use tax to fund transportation projects within the Special District. O.C.G.A. § 48-8-240 et seq.

<u>Utility Accommodation Policy and Standards (UAM)</u> – Manual that outlines the conditions and procedures under which utilities will be permitted to occupy the right-of-way of Georgia.



<u>Wall Foundation Investigation (WFI)</u> – Engineering report documenting the existing subsurface conditions, identifying the recommended foundation type, and defining the parameters to be used for the design of wall foundations.



Appendix C – Reference Links to Documents

(Links are listed in the order they appeared in the document)

TIA Website

www.ga-tia.com

Transportation Investment Act of 2010 – Approved Investment Lists

- Central Savannah River Area
- Central Savannah River Area 2022 Renewal
- Heart of Georgia-Altamaha
- Heart of Georgia-Altamaha 2022 Renewal
- River Valley
- River Valley 2022 Renewal
- Southern Georgia

GDOT Plan Development Process (PDP) Manual

http://www.dot.ga.gov/PartnerSmart/DesignManuals/PlanDevelopmentProcess/PDP.pdf

GDOT Disadvantaged Business Enterprise (DBE) Program

https://www.dot.ga.gov/GDOT/Pages/DBE.aspx/

Resolution

https://www.dot.ga.gov/GDOT/Pages/DBE.aspx/

Local Project Delivery Application

http://ga-tia.com/Content/pdf/Local%20Project%20Managment%20Application.pdf

GDOT Website

http://www.dot.ga.gov/

Band Change Request Procedure

http://ga-tia.com/Content/pdf/Band%20Change%20Procedure.pdf

TIA Concept Report

http://www.ga-tia.com/Content/pdf/TIA%20Concept%20Report%20%2002092021.docx

TIA Concept Report (Local Let)

http://www.ga-tia.com/Content/pdf/TIA%20Concept%20Report%20Local%20Let%202021.02.10.docx

GDOT Letting Schedule

https://www.dot.ga.gov/PartnerSmart/Business/Documents/Contractor/2023LettingSchedule.pdf

GDOT Environmental Procedures Guidebooks (EPG)

https://www.dot.ga.gov/GDOT/Pages/EnvironmentalProcedures.aspx/

Environmental Certification Form

http://www.ga-tia.com/Content/pdf/Environmental%20Certification%20(Local%20Let).pdf



Reference Links to Documents cont.

WeTransfer

https://wetransfer.com

Submission of Environmental Documents with Prime Verification letter

http://www.dot.ga.gov/PartnerSmart/DesignManuals/PDP%20Announcements/MemofromChiefEnvironmentalSubmissionstoOES-Dec%2016-2015.pdf

GDOT Utility Accommodation Policy and Standards Manual (UAM)

http://www.dot.ga.gov/PartnerSmart/utilities/Documents/2016 UAM.pdf

Utility 1st Submission Letter

http://ga-tia.com/Content/pdf/Utility%201st%20Submission%20%20Existing %20Utility%20Facilities%20template%202-3-2023.docx

Utility 2nd Submission Letter

http://ga-tia.com/Content/pdf/Utility%202nd%20Submission%20%20Proposed%20Utility%20Facilities%20template-2-3-23.docx

Utility 1st & 2nd Combined Submission Letter

http://ga-tia.com/Content/pdf/Utility%201st%20and%202nd%20Submission%20(Existing%20and%20Proposed)-template%202-3-2023.docx

Local Let Utilities Certification

http://ga-tia.com/Content/pdf/Utilities%20Certification%20(Local%20Let) update%202021.03.29.docx

GDOT ROW Manual

http://mygdot.dot.ga.gov/gdotoffices/row/Documents/Right%20of%20Way%20Manual%2010312011.pdf

ROW Certification

http://ga-tia.com/Content/pdf/Right-of-Way%20Certification.pdf

ROW Parcel Data Spreadsheet

http://ga-tia.com/Content/pdf/TIA%20Row%20Parcel%20Data.xlsx

Preliminary ROW Cost Estimate

http://ga-tia.com/Content/pdf/TIA%20Preliminary%20ROW%20Cost%20Estimate.xlsx

Right of Way Certification

http://www.ga-tia.com/Content/pdf/Right-of-Way%20Certification.pdf

GDOT Design Policy Manual (DPM)

https://www.dot.ga.gov/PartnerSmart/DesignManuals/DesignPolicy/GDOT-DPM.pdf

GDOT Survey Manual

http://www.dot.ga.gov/PartnerSmart/DesignManuals/SurveyManual/SurveyManual.pdf

GDOT Materials and Testing

https://www.dot.ga.gov/GDOT/Pages/Materials.aspx/



Reference Links to Documents cont.

GDOT Pavement Design Manual

http://www.dot.ga.gov/PartnerSmart/DesignManuals/Pavement/Pavement%20Design%20Manual.pdf

FAA Obstruction Evaluation

https://oeaaa.faa.gov/oeaaa/external/portal.jsp

GDOT Signing and Marking Design Guidelines

http://www.dot.ga.gov/PartnerSmart/DesignManuals/smguide/GDOT%20SIGNING%20AND%20MARKING%20DESIGN%20GUIDELINES.pdf

GDOT Bridge and Structures Design Manual

http://www.dot.ga.gov/PartnerSmart/DesignManuals/BridgeandStructure/GDOT Bridge and Structures Policy M anual.pdf

Local Bridge Design Certification

http://www.ga-tia.com/Content/pdf/Bridge%20Design%20Certification%20(Local%20Let).pdf

GDOT Drainage Manual

http://www.dot.ga.gov/PartnerSmart/DesignManuals/Drainage/Drainage%20Manual.pdf

GDOT Aviation Programs

https://www.dot.ga.gov/GDOT/pages/AirportAid.aspx

The Source

https://www.dot.ga.gov/GDOT/Pages/TheSource.aspx/

GDOT Construction Manual

http://www.dot.ga.gov/PartnerSmart/Business/Source/construction/cm001.pdf

GDOT Sampling Testing Inspection Manual

https://www.dot.ga.gov/GDOT/pages/TheSourceSamplingTestingInspection.aspx/

Qualified Product List (QPL)

https://www.dot.ga.gov/GDOT/pages/QPL.aspx/

GDOT Standard Specification for the Construction of Transportation Systems

2021: https://www.dot.ga.gov/PartnerSmart/Business/Source/specs/2021StandardSpecifications.pdf

2013: https://www.dot.ga.gov/PartnerSmart/Business/Documents/GDOT_SpecBook_2013.pdf

Local Let Material QA form

http://www.ga-tia.com/Content/pdf/Materials%20Quality%20Assurance%20(Local%20Let).pdf

Closeout Checklist Form

http://www.ga-tia.com/Content/pdf/Construction%20Manager%20Closeout%20Checklist.pdf

GDOT QC & QA Programs

http://www.dot.ga.gov/PartnerSmart/DesignManuals/OtherResources/GDOT_QCQA_Program.pdf



Appendix D – Environmental Certification

Local Let - City Managed



DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA

TRANSPORTATION INVESTMENT ACT (TIA) PROJECT

Environmental Certification

P.I. NO.:				
LOCATION [City or County]:				
PROJECT BAND:				
DESCRIPTION:				
I hereby certify that I am a principal and	l duly authorized repr	esentative of		
whose address is			and also that c	ompliance
with applicable local, state, federal envi	ronmental requiremen	its has been con	npleted for the s	subject
project. There are no additional enviror	nmental commitments	and/or requirer	nents that woul	d require
notations in the plans. Construction act	ivities will be limited	to areas within	the designated j	project
construction limits.				
	Duly Authorized Cit	y Representativ	re	Date
		City Soci		
		City Seal		



Local Let - County Managed



DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA

TRANSPORTATION INVESTMENT ACT (TIA) PROJECT

Environmental Certification

P.I. NO.:						
LOCATION [City o	or County]:					
PROJECT BAND:						
DESCRIPTION:						
I hereby certify that	I am a principal and o	duly authorize	ed representa	ative of		
whose address is					and also that co	ompliance
with applicable loca	al, state, federal enviro	onmental requ	irements has	s been com	pleted for the s	ubject
project. There are n	no additional environn	nental commi	ments and/o	or requiren	nents that would	require
notations in the plan	ns. Construction activ	rities will be l	mited to are	eas within	the designated p	roject
construction limits.						
	1	Duly Authoriz	zed County	Representa	itive	Date
			C	ounty Seal		

Revised 7/27/2018



Appendix E - Utility 1st Submission Letter

ADD CONSULTANT LETTERHEAD

Click here to enter a date.



P.I. #_xxxx, xxxxx County
Project Description: xxxxxxxxx

Ref: OCGA 32-6-170 &171 - Request for Project Information 1st Submission – Existing Utility Facilities

Ladies and Gentlemen:

Electronic files of the preliminary plans for the above referenced project have been placed on the GDOT's Secure File Transfer Protocol (SFTP) site for your use. Please contact the TIA Utility Engineer if you do not have access to the SFTP site. Hard copy plans will be provided when requested within <u>5 days</u> of the date of this correspondence. Once the plans have been downloaded from the SFTP or received through the mail, the TIA Office requests acknowledgment of receipt of these plans (in writing) within 5 days via email or letter to the address shown on Page 2.

It is requested that you provide the Department with a complete package of all applicable items listed below. Please follow the "Plans Transfer Procedures for Utility Submissions" which can be found via:

 $\underline{http://www.dot.ga.gov/PartnerSmart/utilities/Documents/EPT/PlanTransfer-ProceduresForUtilitySubmissions.pdf}$

- · Mark existing facilities
 - Include size, type of pipe, type of joints, type of conduit or duct, and pair/gauge accordingly
 - Show the typical depth or design depth, if known, of any underground facilities (ensure that they are shown accurately in both the earthwork cross-sections and drainage cross-sections if available)
 - Show the overhead clearance of any aerial facilities as applicable
 - Include the size of poles, cables, conductors and voltage of aerial facilities
 - o Show the distance of your facility from the edge of pavement
- Mark any existing utility easement(s) you have within the project limits
 - Describe the existing easement(s)
 - Inform in writing if you desire the Department to acquire the (replacement) easement(s)
- Submit any applicable bridge space requirements for your facilities to this Office in writing
 - Indicate the size, weight, and location of the proposed facilities
 - Fully detail the method of attachment to the bridge
- Submit a letter or email confirming "No Facilities" within the project limits as outlined in the <u>Utility</u>
 Accommodation Policy and Standards Manual, current edition



Utility 1st Submission Letter Page 2

P.I. # xxxxxx, xxxxx County Page 2

Please return the complete package no later than $\underline{xx \ days}$ from the date of this letter in either electronic form or to the following address:



If you have any questions or need additional information concerning this project, please contact:

XXXXXXXXX at XXXXXXX

Sincerely,

[]
Project Manager

cc:

xxxxxxxx TIA Project Manager (via: e-mail) xxxxxxxxx TIA Utility Engineer (via: e-mail) xxxxxxxxx TIA Utility Engineer (via: e-mail)

DISTRIBUTION:

Note: If the Utility fails to submit the above information by the due date, then the Utility may be subject to all costs associated with the removal, relocation, and adjustment of their facilities, including liability to the contractor for delay costs per Department procedures required by the Official Code of Georgia Annotated (OCGA) 32-6-170 & 171 under Senate Bill 19.



Appendix F - Utility 2nd Submission Letter

Consultant Company Letterhead

Click here to enter a date.



Ref: OCGA 32-6-170 &171 - Request for Project Information 2nd Submission – Existing and Proposed Utility Facilities

Ladies and Gentlemen:

Electronic files of the preliminary plans for the above referenced project have been placed on the GDOT's Secure File Transfer Protocol (SFTP) site for your use. Please contact the TIA Utility Engineer if you do not have access to the SFTP site. Hard copy plans will be provided upon request within <u>5 days</u> of the date of this correspondence. Once the plans have been downloaded from the SFTP or received through the mail, the Department requests acknowledgment of receipt of these plans (in writing) within 5 days via email or letter to the address shown on Page 2.

It is requested that you provide the Department with a complete package of all applicable items listed below. Please follow the "Plans Transfer Procedures for Utility Submissions" which can be found via:

 $\frac{http://www.dot.ga.gov/PartnerSmart/utilities/Documents/EPT/PlanTransfer-ProceduresForUtilitySubmissions.pdf$

Check existing facilities as shown on the plans, for any missing and/or incorrect information and provide mark-ups

- Include size, type of pipe, type of joints, type of conduit or duct, and pair/gauge accordingly
- Show the typical depth or design depth, if known, of any underground facilities (ensure that they are shown accurately in both the earthwork cross-sections and drainage cross-sections if available)
- Show the overhead clearance of any aerial facilities as applicable
- Include the size of poles, cables, conductors and voltage of aerial facilities
- o Show the distance of your facility from the edge of pavement
- · Mark any existing utility easement(s) you have within the project limits
 - Describe the existing easement(s)
 - Inform in writing if you desire the Department to acquire the (replacement) easement(s)
- Coordinate with other Utility Owners (listed on sheet 4-001) prior to marking plans for temporary and/or proposed relocation of their facilities, if applicable
- Mark proposed relocations of facilities in conflict with the proposed design on the plans
 - Indicate material types
 - Indicate any proposed betterments
 - Indicate vertical position of proposed facilities on cross sections (if provided)
 - Provide approximate location of proposed facilities including proposed clear zone, proximity to rightof-way, and anticipated crossings
- Verify any Utility Easement(s) currently owned OR any applicable Utility Easement(s) previously requested
 in writing for the Department to acquire on behalf of the Utility Company are appropriately shown on the
 plans.



Utility 2nd Submission Letter Page 2

Consultant Company Letterhead

Note: If easements are not shown correctly, please contact the TLA Utility Engineer immediately for resolution.

- Indicate if retention is anticipated for existing underground facilities in the response for relocations
 - Clearly identify facilities to be retained on the plans
 - Include the depth and condition of facilities to be retained if possible
 - Include a retention request for the facilities identified in accordance with 2.8.B in the <u>Utility</u> Accommodation Policy and Standards Manual, current edition
- · Submit any applicable bridge space requirements for your facilities in writing
 - Indicate the size, weight, and location of the proposed facilities
 - Fully detail the method of attachment to the bridge
- Submit any applicable letter or request as outlined in the <u>Utility Accommodation Policy and Standards</u>
 <u>Manual</u>, current edition
 - Letter of "NO COST"
 - Letter of "NO CONFLICT"
 - Letter of "NO FACILITIES"
 - 0
- Provide applicable utility agreement package
 - Lump Sum(LS) or Actual Cost (AC) Agreement for reimbursable utilities
 - 3 signed (in blue ink) of the completed "Utility Agreement Estimate" including supporting documentation and the Certificate of Eligibility
 - 3 sets of letter size utility relocation plans including a cover sheet
 - All Utility Company attachments
 - Contract Item Agreement (CIA) for utility work to be performed by the Department's Contractor
 - 3 sets of stand-alone plans (i.e. Water, Sewer, Gas, etc.), including a cover sheet
 - 3 detailed cost <u>estimate</u> with corresponding pay item numbers for the work to be included in the GDOT Let project
 - Easement Limited Agreement (<u>ELA</u>) for documenting and preserving the existing utility reimbursement rights of the Utility for future projects
 - 3 sets of plans (this information shall be on right-of-way plans), including a cover sheet
 - Ensure that Utility easement areas are <u>highlighted</u> and the station numbers are clearly marked on the plans
- Complete Permit Application submitted through the Georgia Utility Permitting System (GUPS). If you
 currently have a "No Conflict" letter, a GUPS permit application is required for the purpose of reviewing the
 final construction plans and attending the preconstruction meeting.
 - Plans
 - Profiles
 - Utility Adjustment Schedule with work plan
 - Notice of Intent or a Certification Statement
 - Updated Cost Estimate
 - No Conflict Letter
 - No Cost Letter or Reimbursement Letter (whichever applies)
 - Cross Sections (if applicable)
 - Emergency Utility Response Information (EURI) form (form is attached and will be uploaded with the permit)



Utility 2nd Submission Letter Page 3

Consultant Company Letterhead

Please return the complete package no later than xx days from the date of this letter in either electronic form or to the following address:

Marked Plans To:
Consultant Address
Attn: [
[], GA[]
Email:
Retention Request/Letters/Agreement Packages/Cost Estimates To: 600 West Peachtree Street 11th Floor Atlanta, GA 30308 Attn:, TIA Utility Engineer Email:
If you have any questions or need additional information concerning this project, please contact: [] at []
α' 1
Sincerely, [
cc:
xxxxx, TIA Utility Engineer (via: e-mail)
xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
20000000. TIA Project Manager (via: e-mail)
20000000000000000000000000000000000000
DISTRIBUTION:

Note: If the Utility fails to submit the above information by the due date, then the Utility may be subject to all costs associated with the removal, relocation, and adjustment of their facilities, including liability to the contractor for delay costs per Department procedures required by the Official Code of Georgia Annotated (OCGA) 32-6-170 & 171 under Senate Bill 19.



Appendix G - Utility 1st & 2nd Combined Submission Letter

Consultant Company Letterhead

Click here to enter a date.



P.I. # xxxxx, xxxx County
Project Description: xxxxxxx

Ref: OCGA 32-6-170 &171 - Request for Project Information

URPN #9 - 1st and 2nd Submission - Existing and Proposed Utility Facilities

Ladies and Gentlemen:

Electronic files of the preliminary plans for the above referenced project have been placed on the GDOT's Secure File Transfer Protocol (SFTP) site for your use. Please contact the TIA Utility Engineer if you do not have access to the SFTP site. Hard copy plans will be provided upon request within <u>5 days</u> of the date of this correspondence. Once the plans have been downloaded from the SFTP or received through the mail, the TIA Office requests acknowledgment of receipt of these plans (in writing) within 5 days via email or letter to the address shown on Page 2.

It is requested that you provide the Department with a complete package of all applicable items listed below. Please follow the "Plans Transfer Procedures for Utility Submissions" which can be found via:

http://www.dot.ga.gov/PartnerSmart/utilities/Documents/EPT/PlanTransfer-ProceduresForUtilitySubmissions.pdf

- Mark existing facilities
 - Include size, type of pipe, type of joints, type of conduit or duct, and pair/gauge accordingly
 - Show the typical depth or design depth, if known, of any underground facilities (ensure that they are shown accurately in both the earthwork cross-sections and drainage cross-sections if available)
 - Show the overhead clearance of any aerial facilities as applicable
 - o Include the size of poles, cables, conductors and voltage of aerial facilities
 - Show the distance of your facility from the edge of pavement
- . Mark any existing utility easement(s) you have within the project limits
 - Describe the existing easement(s)
 - o Inform in writing if you desire the Department to acquire the (replacement) easement(s)
- Coordinate with other Utility Owners (listed on page 3) prior to marking plans for temporary and/or proposed relocation of their facilities, if applicable
- Identify and resolve any utility conflicts between your existing facilities and the proposed design
- · Mark proposed relocations of facilities in conflict with the proposed design on the plans
 - o Indicate material types
 - Indicate any proposed betterments
 - o Indicate vertical position of proposed facilities on cross sections (if provided)
 - Provide approximate location of proposed facilities including proposed clear zone, proximity to rightof-way, and anticipated crossings



Utility 1st & 2nd Combined Submission Letter Page 2

Consultant Company Letterhead

- Indicate if retention is anticipated for existing underground facilities in the response for relocations
 - Clearly identify facilities to be retained on the plans
 - o Include the depth and condition of facilities to be retained if possible
 - Include a retention request for the facilities identified in accordance with 2.8.B in the <u>Utility</u> Accommodation Policy and Standards Manual, current edition
- Submit any applicable bridge space requirements for your facilities in writing
 - Indicate the size, weight, and location of the proposed facilities
 - Fully detail the method of attachment to the bridge
- Submit any applicable letter or request as outlined in the <u>Utility Accommodation Policy and Standards</u>
 Manual, current edition
 - Letter of "NO FACILITIES"
 - Letter of "NO COST"
 - Letter of "NO CONFLICT"
- · Provide applicable utility agreement package
 - Lump Sum(LS) or Actual Cost (AC) Agreement for reimbursable utilities
 - 3 signed (in blue ink) of the completed "Utility Agreement Estimate" including supporting documentation and the Certificate of Eligibility
 - 3 sets of ½ size utility relocation plans including a cover sheet
 - · All Utility Company attachments
 - Contract Item Agreement (CLA) for utility work to be performed by the Department's Contractor
 - 3 sets of stand-alone plans (i.e. Water, Sewer, Gas, etc.), including a cover sheet
 - 3 detailed cost <u>estimate</u> with corresponding pay item numbers for the work to be included in the GDOT Let project
 - Easement Limited Agreement (<u>ELA</u>) for documenting and preserving the existing utility reimbursement rights of the Utility for future projects
 - · 3 sets of plans (this information shall be on right-of-way plans), including a cover sheet
 - Ensure that Utility easement areas are <u>highlighted</u> and the station numbers are clearly marked on the plans
- Complete Permit Application submitted through the Georgia Utility Permitting System (GUPS). If you
 currently have a "No Conflict" letter, a GUPS permit application is required for the purpose of reviewing the
 final construction plans and attending the preconstruction meeting.
 - o Plans
 - Profiles
 - Utility Adjustment Schedule with work plan
 - o Notice of Intent or a Certification Statement
 - Updated Cost Estimate
 - No Conflict Letter
 - No Cost Letter or Reimbursement Letter (whichever applies)
 - Cross Sections (if applicable)
 - Emergency Utility Response Information (EURI) form (form is attached and will be uploaded with the permit)



Utility 1st & 2nd Combined Submission Letter Page 3

Consultant Company Letterhead

Please return the complete package no later than xxx days from the date of this letter to the following address:

Marked Plans To:

Consultant Name & Address Attn[xxxxxxxxxxxxx] [Enter address here]

Email: [xxxxxxxxxx]

Retention Request/Letters/Agreement Packages/Cost Estimates To:

600 West Peachtree Street 11th Floor Atlanta, GA 30308

Attn: xxxxxx, TIA Utility Engineer Email: enter email address here

If you have any questions or need additional information concerning this project, please contact:

XXXXXXXXX at XXXXXXX

Sincerely, xxxxxxxxxxxx

Project Manager

cc

XXXXXXXXXX TIA Utility Engineer (via: e-mail)
XXXXXXXXXX TIA Project Manager (via: e-mail)
XXXXXXXXXX TIA Deputy Project Manager (via: e-mail)

DISTRIBUTION:

Note: If the Utility fails to submit the above information by the due date, then the Utility may be subject to all costs associated with the removal, relocation, and adjustment of their facilities, including liability to the contractor for delay costs per Department procedures required by the Official Code of Georgia Annotated (OCGA) 32-6-170 & 171 under Senate Bill 19.



Appendix H – Local Let Utilities Certification

THIS SHALL BE PLACED ON LOCAL GOVERNMENT LETTERHEAD

		Utilities Certification
Project No: PI #:		
Description:		
Utility Owner known utility A. All neces	rs on this project, as indentified related issues have been indent	, field investigation, design considerations and coordination with the lin the table below, have been performed, and further certify that all tified and resolved as conforming to 23 CFR, PART 645, SUBPART made for resolution to be undertaken and completed as required for call construction schedule.
Status of Uti	lities/Railroad	
A. There a	are <u>NO</u> known utilities within t	he project limits.
B. [X] There	are known utilities within the p	project limits.

Utility Company	Utility Type	Status 1,2, 3 or 4	Conditional Restriction and Time

<u>Status 1</u>: The Utility Owner is in conflict with the project and requires relocation by the Utility Owner during construction requiring coordination with the Contractor and the Utility Owner. The relocations are non-reimbursable and the Utility Owner will be relocating at no cost to the Local Government or the Department.

<u>Status 2:</u> The Utility Owner is in conflict with the project and requires relocation by the Utility Owner during construction requiring coordination with the contractor and the Utility Owner. The reimbursable agreement between the Local Government and the Utility Owner is attached.

Status 3: The Utility Owner is located within the project limits but requires no relocation work.

Status 4: Utility relocation to be incorporated into the highway construction project contract.



Local Let Utilities Certification Page 2

Project Number: P.I. Number	
Page 2	
The Georgia Department of Transportation shall bear no responsibility for	
obligation of any Utility Reimbursement Agreement. Any Utility Reimbu	
construction of this project shall be between	and the respective Utility
Owner. If a previously unknown conflict arises during construction that re	equires reimbursement, then
shall be responsible for all such costs. O	Costs incurred by
for utility relocation shall be eligible for reimbursement per the executed	TIA Local Project Agreement.
Signature of an Official of the Local Government	Date Date
TIA Utility Coordinator	Date

Revised 3/29/2021



Appendix I – Preliminary ROW Cost Estimate

Preliminary ROW Cost Estimate

PI No. Project Name:

Date: Enter Date of Estimate

Land and Improvements	Agriculture	Residential	Commercial	Industrial	Notes
Estimate (\$/ac)	\$0	\$0	\$0	\$0	Enter Cost / Acre
Fee Simple Area (ac)	0.00	0.00	0.00	0.00	Enter Acreage
Fee Simple Estimate	\$0	\$0	\$0	\$0	CALCULATED FIELD
Perm Easement Area (ac)	0.00	0.00	0.00	0.00	Enter Acreage
Perm Easement Factor	50%	50%	50%	50%	Adjust Percentage as Appropriate
Perm Easement Estimate	\$0	\$0	\$0	\$0	CALCULATED FIELD
Temp Easement Area (ac)	0.00	0.00	0.00	0.00	Enter Acreage
Temp Easement Factor	25%	25%	25%	25%	Adjust Percentage as Appropriate
Temp Easement Estimate	\$0	\$0	\$0	\$0	CALCULATED FIELD
Proximity Damages	\$0	\$0	\$0	\$0	Enter Fees and Provide Notes as Appropriate
Consequential Damages	\$0	\$0	\$0	\$0	Enter Fees and Provide Notes as Appropriate
Cost to Cures	\$0	\$0	\$0	\$0	Enter Fees and Provide Notes as Appropriate
Improvements	\$0	\$0	\$0	\$0	Enter Fees and Provide Notes as Appropriate
Trade Fixtures	\$0	\$0	\$0	\$0	Enter Fees and Provide Notes as Appropriate
PROPERTY TYPE TOTALS	\$0	\$0	\$0	\$0	CALCULATED FIELD
	Land and Im	Land and Improvements			CALCULATED FIELD

Relocation	Quantity	Estimated Cost		Totals		
Residential Tenant (Qty of Tenants)	0	\$30,000		\$0	Adjust Qty / Costs as required	
Residential Owner	0	\$50,000		\$0	Adjust Qty / Costs as required	
Business Displacement (Qty)	0	\$45,000		\$0	Adjust Qty / Costs as required	
Pro Rata Taxes	0	\$1,000		\$0	Adjust Qty / Costs as required	
Prop Pin Replacement	0	\$1,250		\$0	Adjust Qty / Costs as required	
PROPERTY TYPE TOTALS	0			\$0	CALCULATED FIELD	
	Relocatio	on Sub Total	\$0		CALCULATED FIELD	

Demolition	Residential	Commercial	
Asbestos Inspection	0	0	Adjust Qty as required
Estimated Fee (per structure)	\$3,300	\$15,000	Enter Estimated Fee per structure
Total Asbestos	\$0	\$0	CALCULATED FIELD
Abatement	0	0	Adjust Qty as required
Estimated Fee (per structure)	\$20,000	\$24,000	Enter Estimated Fee per structure
Total Abatement	\$0	\$0	CALCULATED FIELD
Demolition	0	0	Adjust Qty as required
Estimated Fee (per structure)	\$25,000	\$35,000	Enter Estimated Fee per structure
Total Demolition	\$0	\$0	CALCULATED FIELD
UST Removal	0	0	Adjust Qty as required
Estimated Fee (per structure)	\$125,000	\$125,000	Enter Estimated Fee per structure
Total UST Fee	\$0	\$0	CALCULATED FIELD
Post Clearance Inspection	0	0	Adjust Qty as required
Estimated Fee (per structure)	\$400	\$400	Enter Estimated Fee per structure
Total Inspection	\$0	\$0	CALCULATED FIELD
PROPERTY TYPE TOTALS	\$0	\$0	CALCULATED FIELD
	Demolition Sub Total	\$0	CALCULATED FIELD

Valuation Services	Agriculture	Residential	Commercial	Industrial		
Appraisals (# of Parcels)	0	0	0	0	Adjust Parcels as required	
Estimated Fee (per Parcel)	\$3,000	\$3,500	\$5,000	\$5,000	Enter Estimated Fee per Parcel	
Total Appraisals	\$0	\$0	\$0	\$0	CALCULATED FIELD	
Specialty Reports	0	0	0	0	Enter Number of Reports	
Estimated Fees	\$2,500	\$2,500	\$2,500	\$2,500	Enter Estimated Fees and Provide Notes	
Total Appraisals	\$0	\$0	\$0	\$0	CALCULATED FIELD	
PROPERTY TYPE TOTALS	\$0	\$0	\$0	\$0	CALCULATED FIELD	
	Valuation Serv	vices Sub Total	\$0		CALCULATED FIELD	



Preliminary ROW Cost Estimate Page 2

Legal Services	Parcels	Estimated Fees		Totals		
Meeting with Attorney	0	\$125		\$0	Adjust Parcels / Fees as required (using best judgement)	
Preliminary Titles	0	\$200		\$0	Adjust Parcels / Fees as required	
Closing and Final Title	0	\$300		\$0	Adjust Parcels / Fees as required	
Recording Fees	0	\$50		\$0	Adjust Parcels / Fees as required	
Condemnation	0	\$30,000		\$0	Adjust Parcels / Fees as required	
	Legal Services Sub Total \$0		CALCULATED FIELD			
Administrative	Parcels	Man Hours/Parcel		Totals		
Pre-Acquisition	0	40		\$0	Adjust Parcels / Fees as required	
Acquisition	0	100		\$0	Adjust Parcels / Fees as required	
Administrative Appeals	0	50		\$0	Calculates as 15% of Acq Parcel Count (Adjust if Necessary)	
	Administr	a tive Sub Total	\$0		CALCULATED FIELD	
Continuos						
Contingency Overall Contingency	20%	\$0			Enter Percentage for Contingency (Default = 20%)	
		Total Estimated	Costs	\$0	CALCULATED FIELD	
Prepared By:						
					Date	
Approved By:						
					Date	
					Update d 2-22-2021-OHB	



Appendix J – Right of Way Certification

DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA

TRANSPORTATION INVESTMENT ACT (TIA) PROJECT Right of Way Certification

P.I. NO.:							
COUNTY:							
DESCRIPTION:	DESCRIPTION:						
This is to advise that the right of way and/or easements have been acquired in accordance with the current State Laws, Title 32/Title 22, TIA Manual and FHWA when applicable covering the acquisition of real property on the above referenced project.							
Place an "X" at the applicable item:							
This project is limited to the existing rights acquisition was required.	s of way and	l no additional rights of way					
All necessary rights of way, including control of access when pertinent have been acquired including both legal and physical possession.							
All Rights of Way are owned by the City/County/State/Federal Government or a combination of these.							
If R/W is being acquired; I have audited all files and the Manual and FHWA when applicable	ney are in com	npliance with all State Laws, Title	32/Title 22, TIA				
	ney are in com	npliance with all State Laws, Title	32/Title 22, TIA				
Manual and FHWA when applicable	OR						
	OR	ry/County Authorized Agent	32/Title 22, TIA Date				
Manual and FHWA when applicable	OR	ty/County Authorized Agent					
Manual and FHWA when applicable TIA Right of Way Manager Date	OR	by/County Authorized Agent DRTATION USE ONLY project was acquired in compliance ppropriate federal regulations and applicable. Title and possession h	Date ce with 49 CFR guidelines has been				
TIA Right of Way Manager Date FOR DEPARTMENT OF T This is to advise that the required right of way for the report of the required right of way for the report of the required right of way for roadway obtained to all rights of way. Where appropriate, reloc	OR	project was acquired in compliant applicable. Title and possession hoperty management have been con	Date ce with 49 CFR guidelines has been				

Revised 7/31/2018



Appendix K – Local Bridge Design Certification

DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA

TRANSPORTATION INVESTMENT ACT (TIA) PROJECT

Local Bridge Design Certification

P.I. NO	O.:			
LOCA	TION [City or	County]:		
	ECT BAND:			
	GE ID:			
DESC	RIPTION:			
I hereb	y certify that I	am a principal and	duly authorized representative of	
whose	address is		and further c	ertify that the
		through	its Engineer of Record attests that:	
1.		FEMA, and creates	rainage design and stream crossing requi no adverse effects to flood elevations or f	
2.		signed to resist the h structure by the wate	ydraulic forces determined by the applications rway.	ble design guidelines and
3.			nstalled below the anticipated scour depth bridge foundation investigation.	ns, into competent bearing
4.	The scour protect	ction is designed to r	esist anticipated velocities at the crossing	
5.	Engineer of Rec	ord Certifies to all a	pove.	
			Duly Authorized City/ County Representative	Date
				City / County Seal
Local I	Bridge Design Ce	rtification – Local G	overnment	



Appendix L – Local Bridge Design Certificate by Engineer of Record DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA

TRANSPORTATION INVESTMENT ACT (TIA) PROJECT

Local Bridge Design Certification

P.I. NO.:						
LOCATION	[City or 0	County]: _				
PROJECT B	AND:					
BRIDGE ID	:					
DESCRIPTI	ON:					
I hereby certif	fy that I am	a licensed E	ngineer in th	e State of Geo	orgia and that my addres	s is
			and	further certify	and attest that that:	
jurisd		FEMA, and o			stream crossing require o flood elevations or flo	
	The bridge is designed to resist the hydraulic forces determined by the applicable design guidelines and imposed on the structure by the waterway.					
				ed below the a ge foundation i	nticipated scour depths, nvestigation.	into competent bearing
4. The s	cour protec	ction is design	ned to resist	anticipated ve	ocities at the crossing.	
					Engineer of Record Certification	Seal /



Appendix M – Local Let Material QA Form

TIA Program - Local Let Project - Materials Quality Assurance

SELECT ONE: Request GDOT to perform Materials Testing (Complete Section 1) Request Approval for Consultant Quality Assurance Materials Testing (Complete Sections 1 and 2) Section 1					
Project Number/County: GDOT Contract ID Number/Proposed Let Date: Project Description:					
Local Govt. Responsible for Letting Project: Local Govt. Project Manager Contact Name & N	lumber:				
Section 2 GDOT Certified Tech 1) Roadway Testing Technicians (RTT) are required layers, along with sampling misc. materials List GDOT Certified Roadway Testing technician(s) w		5 1 5			
GDOT RTT Certification Number	Name/ Employer				
2) Concrete **- GDOT Certified Concrete technician List who will be performing concrete testing & GDOT		concrete testing (slump, air, cylinders)			
GDOT Concrete Certification Number	Name/ Employer				
Associately and all and a second					
**Please note if a Bridge or other major structure is involved: NOTE: Labs performing any testing shall be accredited in the testing to be performed (i.e. AASHTO T-22 or ASTM C-39 for concrete cylinders) by the AASHTO Accreditation Program (AMRL and/or CCRL). 3) Hot Mix Asphalt GDOT specifications require the Contractor to perform mixture Acceptance testing at the plant. GDOT will perform Verification Testing at the asphalt plant as a part of the existing QPL process. The Local Government is responsible for notifying GDOT's Testing Management Operations Supervisor (TMOS) at least one week prior to start of work. *send completed form to TIA Office.					
APPROVED:TIA Program	Manager	Date			

Revised 7/27/2018



Appendix N - Closeout Checklist Form



DEPARTMENT OF TRANSPORTATION

Construction Manager's Closeout Checklist (Prior to Requesting Final Audit)

TIA Co	nst Mgr Worksheet		Date:				
Project:				County:		Ct. ld#:	
LINE	ITEM	YES	N/A	DATE	INITIALS	REMARKS	
1	 Enter Key Dates, Checklist Event Dates and Milestone Dates 						
	 Review and print Key Dates Report 						
2	 Close out all Stockpiled Materials 						
3	 View the installed Work Report (Unpaid Installed Quantity Summary) 						
	and review quantities to be paid and						
	ensure correctness.						
	 Verify that sufficient funds are 						
	available for any items that will be paid						
	 on progress estimate. Review and print Item Quantity Report. 						
4	Verify that all project records are						
	organized per TIA Policy.						
	 Verify that the Document Control Log 						
	and the Correspondence files are up- to-date and organized (if reg'd).						
5	Check Approved Supplemental						
	Agreements (SA) and/or Change Orders						
	(CO).						
	Verify that the Approved Supplemental Approved Supplemental						
	Agreements/Change Order folder contains a copy of all approved						
	Supplemental Agreements/Change						
	Orders						
	Verify all Supplemental						
	Agreements/Change Orders paid, If not used						
	 Attach note to approved copy of SA/CO 						
	giving Reasons for not using SA/CO.						
	If minor items are not used the above						
6	does not need to be done. • Verify that the Final DBE report has						
•	been received from the contractor.						
7	 "As-Built" plans up-to-date. 						
	Verify that Bridge As-Built Foundation Information is an analysis and base						
	Information is up to date and has been sent to Bridge office.						
	Verify Environmental Commitments						
	Table.						
	 Verify Final Payment Smoothness Report 						
	Verify Bridge Deck Surface						
	Profilographs and Steel Cover Reports.						
	 Verify that Earthwork Items have 						
	sufficient documentation to support						
	 final payment. Final MC Checklist is complete and has 						
	been sent to OM&T.						
8	 Verify all discrepancies are resolved. 					CM emails PM, RC and Controls	
	 Verify that all Progress Estimates have 					that project is ready for Final	
9	 been approved and processed. Complete the Final Package Checklist 					Audit.	
3	(D O T TIA 722)						



Appendix O – Local Government Final Acceptance



**For execution <u>after</u> Project completion.	
PROJECT NAME:	
PROJECT NUMBER:	
LOCAL GOVERNMENT:	
This is to certify that all work for the above referenced Project has been c with this Agreement and in accordance with the scope as defined in the Lists. A final inspection of the Project has been made. All punch list work accepted.	e Approved Investment
Signature of Authorized Local Government Representative	DATE

Revised 7/27/2018