6

SUBJECT: RFQ FOR DESIGN BUILD SERVICES FOR JACKSONVILLE FAIRGROUNDS RELOCATION PROJECT

BID # CDB-0053-22 **OPEN DATE: 03/09/2022**

COMPETITIVE SEALED PROPOSAL EVALUATION COMMITTEE

KIND AND BASIS OF CONTRACT: CONSTRUCTION – DESIGN/BUILD

AGENCY: DEPARTMENT OF PUBLIC WORKS

BASIS OF AWARD: EVALUATION CRITERIA

NUMBER OF BIDS INVITED: 7 **NUMBER RECEIVED: 3** **OTHER: 0**

SUMMARY OF BIDS AND RECOMMENDED ACTIONS:

Recommend approval to amend the award with J.B. Coxwell Contracting, Inc., to incorporate the Scope & Fee, Exhibit D, known as Amendment 3, for Design Build Services Jacksonville Fairgrounds Relocation. Increase the GMP by $6,727,714.06 to a new GMP of $12,575,430.28.

Funding Source: 32111.153103.565031.010411.00000000.00000.0000000
32111.153103.565051.010411.00000000.00000.0000000
- To be executed by formal contract amendment through Office of General Counsel

ATTACHMENTS: Recommendation Memo, Exhibit D, Previous Awards

ANALYST: BENJAMIN KEMP **RESPECTFULLY SUBMITTED:** DUSTIN FREEMAN, CHIEF PROCUREMENT DIVISION

CONCURRENCE BY: **Robin G. Smith, Chief, Engineering and Construction Management**

(ALL AWARD ACTIONS SUBJECT TO LAWFULLY APPROPRIATED FUNDS)
ACTION OF CSPEC COMMITTEE ON RECOMMENDATIONS ABOVE

MEMBERS APPROVING_____ MEMBERS DISAPPROVING_____ DATE:_____

_____ _____ OTHER_____

_____ _____

_____ _____

_____ _____

_____ _____

ACTION OF AWARDING AUTHORITY DATE _____

APPROVED_____ DISAPPROVED: _____

OTHER: _____

SIGNATURE OF AUTHENTICATION _____

City of Jacksonville, Florida

Donna Deegan, Mayor

Department of Public Works
Engineering & Construction Management Division
214 N. Hogan Street, 10th Floor
Jacksonville, FL 32202
(904) 255-8762
www.coj.net

A NEW DAY

October 23, 2023

TO: Dustin Freeman
Chief of Procurement

THRU: Nina Sickler, P.E.
Director of Public Works

FROM: Robin G. Smith, P.E.
Chief, Engineering and Construction Management

SUBJECT: Amendment 3 CDB- 0053-22 Contract 72020-22/ PO 648082-22
J. B. Coxwell Contracting, Inc.
Design Build Services Jacksonville Fairgrounds Relocation

In accordance with Design/Build CDB-0053-22, Contract 72020-22/ PO 648082-22 for Jacksonville Fairgrounds Relocation in the amount of $160,824.79 for predesign services and a conceptual project milestone schedule. Amendment 1 in the amount of $599,385.15 was to provide pre-construction services and 30% design services. Amendment 2 in the amount of $5,087,506.28 was to provide Phase 1 60% design services and construction costs for clearing and earthwork. Amendment 3 is to provide Phase 1 100% design services, offsite 60% plans based on the traffic impact study, Phase 2 and Phase 3 60% design services and Phase 2 and Phase 2 construction for clearing and mass grading as detailed in the attached Scope & Fee Summary, Exhibit D in the amount of $6,727,714.06, which includes $470,712.65 in contingency. J.B. Coxwell is committed to meeting the 30% JSEB goal established for this contract.

Accordingly, this is to recommend that Contract 72020-22, originally executed November 22, 2022, with J.B. Coxwell Contracting, Inc. for Design Build Services Jacksonville Fairgrounds Relocation be amended to incorporate the attached Scope and Fee, Exhibit D to increase the GMP by $6,727,714.06 to a new GMP of $12,575,430.28

Funding is as follows:

Accounts	TOTAL
32111.153103.565031.010411.00000000.00000.0000000	
32111.153103.565051.010411.00000000.00000.0000000	
1,238,214.43	$6,727,714.06

NS/lw

cc: Jill Enz, Chief, Natural and Marine Resources
Robert Scott, P.E., Engineering and Construction Management

EXHIBIT D

J.B. Coxwell Contracting, Inc.
6741 Lloyd Road West
Jacksonville, Florida 32254
Office (904) 786-1120 Fax (904) 783-2970

September 28, 2023

Bob Scott, P.E.
City of Jacksonville
Engineering & Construction Management Division
214 N. Hogan Street, 10th Floor
Jacksonville, Florida 32202

Re: Phase 1 - 100% Design Services, Phase 2/3 60% Design Services, Offsite 60% Design Services & Clearing and Mass Grading Proposal for Design-Build Services for Jacksonville Fairgrounds Relocation Project
Design-Build Construction Delivery for City of Jacksonville
City Contract No.: 72020-22

Dear Mr. Scott:

J.B. Coxwell Contracting, Inc. (JBCCI) is pleased to submit for your review and consideration the following design-build scope of services and attached lump sum fee proposal for Phase 1 100% design services, offsite 60% plans based on the traffic impact study by Chindalur Traffic Solutions, Phase 2 and Phase 3 60% design services and Phase 2 and Phase 3 construction costs for clearing and mass grading for the above referenced project. This proposal is based on unimpeded access to the site, the approval of the 60% design plans for Phase 1, the FDOT traffic impact study and most recent 30% design plans for Phase 2 and Phase 3. The scope of work in the attached fee proposal includes 60% design services to create a plan-set to provide a guaranteed maximum price (GMP) for construction services in Phase 2 and Phase 3.

The proposed lump sum amount for the 60% design services in Phase 2 and Phase 3 is $396,940.82, which does not include a project contingency. The proposed lump sum amount for the clearing & mass grading construction services for Phase 2 and Phase 3 is $5,781,057.39, which includes a 10% project contingency. The proposed lump sum amount for 100% design services for Phase 1 is $246,834.51 which does not include a project contingency. The proposed lump sum amount for 60% design services for the offsite work is $302,881.34 which does not include a project contingency. These tasks, if approved would result in a contract increase in the amount of $6,727,714.06 which results in a total revised contract amount of $12,575,430.28. This proposed design or engineering elements are limited to the outline, key assumptions and exclusions as detailed in GAI's proposals. The clearing and earthwork proposal assumes all merchantable timber in the project limits will be removed by JBCCI. Tree mitigation is not anticipated or included in this proposal.

The work related to this proposal will be completed two hundred and seventy (270) calendar days from Notice to Proceed which is included in the current approved schedule and on schedule. Phase 2 and Phase 3 clearing and mass grading is anticipated to start on December 11, 2023; however, JBCCI is available to start earlier if this proposal is accepted, the Phase 2 and Phase 3 plans are released for Construction by COJ staff, and the required SJRWMD/FDEP permits are approved with the understanding we will work around the softball field during the 2023 fall season. This lump sum proposal is inclusive of only those services noted on the attached documentation and which are anticipated at this time. No services or work other than those noted in the

proposals are included. In addition, any unknown condition(s) which may surface during construction or any other increase in scope of services may result in a request for additional fees. No work will proceed however, without first obtaining approval from the City for any additional services. This proposal is valid for 30 days unless otherwise agreed upon.

Included in this proposal is an allowance to remove and replace unsuitable soils should they be found onsite. Quantities for the removal and replacement to be field measured for payment based on the unit price in the fee summary. The proposed grades are not final, additional earthwork will be required based on final plans. Asbuilts for the earthwork is not included in this proposal.

We are again very appreciative of the opportunity to provide you with our design-build services. Should you have any questions or need any further information, please do not hesitate to contact us.

Regards,

J.B. Coxwell Contracting, Inc.

Josh Sowards

Josh Sowards
Director of Design Build Services

EXHIBIT D

COJ DB – Fairgrounds Relocation Project

Phase 2/3 - 60% Design Services

Proposal

EXHIBIT D

Contract Fee Sumary for Engineering Division
DB Services for Jacksonville Fairgrounds Relocation Project (CDB 0053-22)
City of Jacksonville, FL

PART I - GENERAL

1. Project DB Services for Jacksonville Fairgrounds Relocation Project - Phase 2/3 60% Design Services	**2. City Contract Number** 72022-22
3. Name of Contractor J. B. Coxwell Contracting, Inc.	**4. Date of Proposal** 8/30/2023

PART II - LABOR RELATED COSTS

5. DIRECT LABOR	Hourly Rate	Estimated Hours	Estimated Costs	TOTAL
Principal (Senior Officer)	$ 110.00	20.00	$ 2,200.00	
Design Build Manager	$ 90.00	150.00	$ 13,500.00	
Project Manager	$ 90.00	20.00	$ 1,800.00	
Project Engineer	$ 70.00	30.00	$ 2,100.00	
Administrative Assistant	$ 35.00	40.00	$ 1,400.00	
Estimator	$ 55.00	30.00	$ 1,650.00	
Estimating Assistant	$ 35.00	10.00	$ 350.00	
Staff Accountant	$ 55.00	-	$ -	
CADD / Comp Technician	$ 30.00	-	$ -	
			TOTAL DIRECT LABOR	$ 23,000.00
6. OVERHEAD (Combined Fringe Benefits & Administrative) ***Overhead Rate 54.46%***				$ 12,525.80
			LABOR SUB-TOTAL	$ 35,525.80

PART III - OTHER COSTS

7. MISCELLANEOUS DIRECT COSTS	
Misc. Direct Expenses	$ 1,500.00
MISCELLANEOUS DIRECT COSTS TOTAL	$ 1,500.00
8. SUBCONSULTANTS/SUBCONTRACTORS	
GAI Consultants, Inc. (60% Design Services - Phase 2 & 3)	$ 316,336.00
SUBCONSULTANTS / SUBCONTRACTORS TOTAL	$ 316,336.00
OTHER COSTS SUB-TOTAL	$ 317,836.00

PART IV - CONTINGENCY

9. CONTINGENCY	x	*0%*	

PART V - FEE SUMMARY

SUBTOTAL - (Parts II & III, IV)			**$353,361.80**
10. Design Builder Fee (Parts II & III)	x	*10.0%*	$ 35,336.18
11. Payment & Performance Bond			**$8,242.84**
GRAND TOTAL (1-11)			**$ 396,940.82**

EXHIBIT D

gai consultants
transforming ideas into reality

June 29, 2023 (Amended 09/14/23)

Josh Sowards
Project Manager
J. B. Coxwell Contracting, Inc.
6741 Lloyd Road
Jacksonville, FL 32254

Subject: Design-Build Services for Jacksonville Fairgrounds Relocation Project (CDB-0053-22) / Supplement #4 for: Phase 2 and 3 60% Design Services

Dear Mr. Sowards,

GAI Consultants, Inc. (GAI) respectfully submits the following Scope of Services and Fee Proposal commence professional services for the subject project.

Scope of Work

The JB Coxwell Contracting, Inc. ("JBCCI")/GAI Consultants, Inc. ("GAI") Design Build Team ("The DB Team") met with the City of Jacksonville ("COJ") and representatives of the Greater Jacksonville Agricultural Fair ("GJAF") on May 9, 2023 to review the 30% plans for Phases 2 and 3 of the subject project. Based on that meeting, the COJ Representatives, the DB Team, and the GJAF Consultants have coordinated various project components and the COJ has approved the DB Team to proceed with 60% design services for Phases 2 and 3. Accordingly, GAI's services to effectuate the deliverables associated with the 60% Design of Phases 2 and 3 are further outlined below and are based on GAI's best assumptions to date:

1. GAI will progress the Phase 2 and 3 30% Design Documents that were reviewed and coordinated by COJ, the DB Team, the GJAF on May 9th as described above to a minimum of 60% design completeness.

   These drawings will consist of, at a minimum: site clearing and demolition plans, grading and drainage plans, stormwater management collection, conveyance and treatment facilities, utility design plans (water/sewer/electric), communication design plans, preliminary roadway plans for improvements needed to access and traverse the proposed site, proposed parking lot plans (both paved and unpaved), and appropriate details and specifications.

   No off-site improvements are included in this scope of work other than the tie-in of the Finger Lake Street extension to its current terminus.

   These plans will also include preliminary structural engineering services required to accommodate existing box culvert modifications necessary to facilitate the extension of Finger Lake Street from it's current terminus southward through the project site. More specifically, the structural engineering services will include the following:

   - Field inspection of the existing structure
   - Research/Review existing structure information and inspection results
   - Coordinate proposed grading and required new roadway geometry for the existing culvert
   - Preliminary design check based on proposed new roadway geometry
   - Prepare existing structure analysis report and proposed changes

GAI's scope of work includes 60% landscape and irrigation plans for the proposed improvements in Phase 2 and 3. GAI will work with the COJ and GJAF to coordinate the desired tree and plant material selection for the project. No decorative hardscape design is anticipated or included in this proposal except for minor hardscape in Phase 3 for the proposed pond segmental block wall extending above the pond top of bank, with metal fence around the top. No tree mitigation plans are included as this site is exempt from tree mitigation services.

(Note: Since the authorization of the Phase 1 60% Design Proposal, the City has provided direction to JBCCI and GAI to relocate all internal parking landscape requirements to the perimeter of the site. Given this reduction in GAI's design scope for the project, GAI is not seeking any additional funds for the 60% design of Phase 2 and 3 Landscaping Plans).

This scope of work includes applying for a temporary Florida Department of Transportation (FDOT) Driveway Connection Permit to facilitate construction of the project.

Mass grading of the proposed amphitheater located in Phase 1 project limits to a 60% design level is included in this scope of work as an additional service requested by the City. This work will be executed in coordination with Kasper & Associates.

GAI's scope of work also includes post-design services for the Phase 2 and 3 30% Clearing and Earthwork efforts, only.

Note: While these drawings are being referred to as "60% plans", it is intended that the drawings will have enough detail suitable for GAI to make the first-round permit submittals as outlined in Item 2 below. The plans will also have enough detail to assist JBCCI with development of a GMP for the construction of all Phase 2 and 3 Infrastructure. Any project components that are still unknown at the conclusion of this 60% design effort will be identified so that JBCCI can qualify their GMP proposal accordingly and provide for allowances as may be necessary.

2. Under this scope of services, GAI will make the first-round permit submittals to the following agencies for Phase 2 and 3.

    - City of Jacksonville Development Review (GAI has assumed the COJ will provide for a modified 10-set permit process to facilitate the expedited review of this project.)
    - St. Johns River Water Management District (Stormwater Only – Wetland permitting for Phases 2 and 3 has already commenced under a previous work authorization.)
    - JEA Permitting for Water and Sewer
    - FDOT Permitting for Drainage, Utility, and Stormwater Permitting.
        - Note: Off-site Turn Lane Improvement Design is not included in this scope of work, pending results of the project traffic study currently in progress.

3. GAI's scope of work under this proposal includes fees to cover progress review meetings with the City, JBCCI, Greater Jacksonville Agricultural Fair and their consultants through November 2023.

4. GAI will work with JBCCI, the City, and the Greater Jacksonville Agricultural Fair and its consultants to coordinate gas service to the proposed exposition hall. This also includes coordination with the Greater Jacksonville Agricultural Fair on their water sewer and electric service hook-up plan for their midway as part of the Phase 3 design.

5. With the City's decision to eliminate the baseball field and concession stand design from this project, GAI's scope of work for Phase 2 and 3 60% design includes a credit for PQH Architect's unused design fees that were part of a previous work authorization.

6. In an effort to generate more on-site fill material, GAI will modify our stormwater design to implement another stormwater management facility in Phase 3. The survey and geotechnical services required for the design of this new stormwater management facility has been included.

Key Assumptions and Exclusions

1. No final project design or final permitting is included in this scope of work.
2. No site inspection of construction administration services is included in this scope of work other than the post-design services outlined in the scope of work above.
3. No other services other than those outlined within this proposal are included at this time.

If you have any questions, please give me a call.

Sincerely,

Nick Mousa, AICP

Assistant Vice President

Attachments:
- Fee Summary

EXHIBIT D

Contract Fee Sumary for Engineering Division DB Services for Jacksonville Fairgrounds Relocation Project (CDB 0053-22) City of Jacksonville, FL				
PART I - GENERAL				
1. Project DB Services for Jacksonville Fairgrounds Relocation Project - Supplement #4			**2. City Contract Number** TBD	
3. Name of Consultant GAI Consultants, Inc.			**4. Date of Proposal** 6/29/2023 (Amended 09/14/23)	
PART II - LABOR RELATED COSTS				
5. DIRECT LABOR	Hourly Rate	Estimated Hours	Estimated Cost	TOTAL
Principals	$ 111.33	40	$ 4,453.20	
Project Manager	$ 95.00	153	$ 14,535.00	
Sr. Project Engineer	$ 79.98	184	$ 14,716.32	
Project Engineer	$ 63.07	368	$ 23,209.76	
Engineer Intern	$ 37.70	535	$ 20,169.50	
Sr. LA Manager	$ 64.00	0	$ 0.00	
Project LA	$ 46.23	0	$ 0.00	
LA Technician	$ 31.12	0	$ 0.00	
Lead Designer	$ 41.20	296	$ 12,195.20	
Planning Manager	$ 56.77	0	$ 0.00	
Sr. Planner	$ 36.00	0	$ 0.00	
CAD Operator (Survey and Civil)	$ 30.00	24	$ 720.00	
Surveyor (PSM)	$ 69.29	8	$ 554.32	
Three-Man Survey Crew	$ 100.21	20	$ 2,004.20	
Admin	$ 26.93	28	$ 754.04	
			TOTAL DIRECT LABOR	$93,312
6. OVERHEAD (Combined Fringe Benefits & Administrative) Overhead Rate 177.99%				$166,085
7. SUBTOTAL: Labor + Overhead (Items 5 & 6)				$259,397
8. PROFIT: Labor Related Costs (Item 7)			x 10%	$25,940
TOTAL LUMP SUM LABOR FEE (GAI)				**$285,336**
PART III - OTHER COSTS				
9. MISCELLANEOUS DIRECT COSTS (Lump Sum) SJRWMD Permits for Balance of Phase 1,Phase 2/3, COJ 10-sets, CRC, Fire Review Fees, FDOT Access fee, EQD Fees per phase, Mileage, Printing, etc.				$ 20,400
MISCELLANEOUS DIRECT COSTS SUB-TOTAL				**$20,400**
10. SUBCONSULTANTS / CONTINGENCY				
Irrigation Design for Phase 2 and 3 (Allowance)				$15,000
Utility Locates (Allowance)				$5,000
Geotechnical Services for Extra SWMF in Phase 3 (Lump Sum)				$7,674
Balance of Unused Architect Fees from Phase 1 Scope Cut (Credit)				-$17,074
SUB-CONTRACT SUB-TOTAL				**$10,600**
PART IV - FEE SUMMARY				
TOTAL FEE - (Items 5, 6, 8, 9 and 10)				**$316,336**

EXHIBIT D

Meskel & Associates Engineering
Geotechnical • Environmental • Inspection • Testing

July 28, 2023

David Dostie II, P.E.
GAI Consultants
12574 Flagler Center Boulevard, Suite 202
Jacksonville, Florida 32258

Subject: Proposal for Additional Geotechnical Exploration and Engineering Services
Jacksonville Fairgrounds Relocation Project - Pond Expansion
Jacksonville, Florida
MAE Proposal No. 041822.11

Dear Mr. Dostie:

MESKEL & ASSOCIATES ENGINEERING, PLLC (MAE) is pleased to present this proposal to provide the geotechnical exploration and engineering services for the subject project. We were provided with an undated Master Site Plan as well as a notated aerial showing the area of planned pond expansion, both prepared by GAI Consultants. Based on the provided information, we understand that the project will include the expansion of the planned pond within the southwestern corner of Phase 3 of the Jacksonville Fairgrounds project adjacent to the existing Equestrian Center and Aquatic Center property, located on Normandy Boulevard in Jacksonville, Florida.

The objective of the geotechnical exploration is to provide site and subsurface information to evaluate the subsurface conditions within the planned pond for use as site and structural fill. Based on the provided information, we propose the following field services:

Test Location	Test No. & Type	Test Depth ft below ground surface
Pond Expansion	3 SPT*	20**

*Standard Penetration Test (SPT) Boring

** Pond borings will be continuously sampled to the boring termination depth.

We plan to access the boring locations with our track or ATV-mounted drilling equipment. We anticipate that some clearing of paths to access the boring locations will be necessary. The borings will be backfilled with soil cuttings upon completion.

In accordance with Florida law, we will attempt to locate existing underground utilities at the site by utilizing the Sunshine State One-Call (SSOC) system. Any utilities not included in the SSOC system will need to be located by the property Owner.

The recovered soil samples will be described in the field by the field crew. The field logs and samples will be delivered to our laboratory where the logs will be reviewed, and the samples classified by a geotechnical engineer. Laboratory classification and index property tests will be performed on selected samples to confirm the soil classification.

A geotechnical engineer, licensed in the State of Florida, will direct the geotechnical exploration and provide an engineering evaluation of the subsurface conditions encountered at the boring locations. The results of the exploration and evaluation will be documented in a report that will include the following:

- Our understanding of the planned construction,
- The observed site conditions, such as topography, surface vegetation, etc. as they relate to the anticipated construction,
- The field and laboratory test procedures used, and the results obtained,
- The encountered subsurface conditions, including subsurface profiles, measured groundwater levels, and estimated geotechnical engineering properties, as necessary,
- An estimate of the Seasonal High Groundwater Level at the proposed pond location, and
- Recommendations for reuse of the soils excavated from the proposed pond as fill.

Based on the scope of the services outlined above, we propose completing our work for the not-to-exceed fees of **$7,673.90**. Please note that this fee is valid for 90 days following the date of this proposal. MAE reserves the right to revisit our proposal and adjust our fees as necessary if proposal acceptance is after 90 days.

Our proposed fee includes submittal of an electronic copy of the report. Bound, paper copies can be provided at an additional cost of $100 per copy. We will contact you immediately if we encounter subsurface conditions that could require the borings to be advanced to deeper depths, and/or if additional engineering analysis/evaluation outside the scope of this proposal is necessary.

A returned copy of the attached authorization sheet will authorize our work. Our work will be performed in accordance with our General Conditions, a copy of which is attached to and made a part of this proposal.

Once authorization is received, a utility locate request will be submitted. We will mobilize our field crew to the site within one to 2 weeks once the utilities have been marked and located. We anticipate that the fieldwork will take a total of 2 days to complete, weather permitting. Laboratory testing will take up to one week depending on the amount of lab testing assigned. We expect to submit our geotechnical report 2 weeks after completion of all the field and laboratory testing.

We appreciate this opportunity to provide this proposal for your project. If you have any questions concerning this proposal, or if we can serve you in any other way, please contact us.

Sincerely,
MESKEL & ASSOCIATES ENGINEERING, PLLC

G. Clayton Purvis E.I.
Staff Engineer

P. Rodney Mank, P.E.
Principal Engineer

Attachments: Fee Summary Sheet

Distribution: David Dostie II, P.E. (d.dostie@gaiconsultants.com)

EXHIBIT D

CONTRACT FEE SUMMARY FORMAT FOR ENGINEERING DIVISION
DB SERVICES FOR JACKSONVILLE FAIRGROUNDS RELOCATION PROJECT (CDB 0053-22)
CITY OF JACKSONVILLE, FLORIDA

PART I - GENERAL

1. Project DB Services Jacksonville Fairgrounds Relocation Project Pond Expansion	**2. City Contract No.** TBD
3. Name of Consultant or Subconsultant: MESKEL & ASSOCIATES ENGINEERING, PLLC	**4. Date of Proposal** July 28, 2023

PART II - LABOR RELATED COSTS

5. Direct Labor (Reimbursable)	Hourly Rate	Estimated Hours	Estimated Cost	TOTAL
Principal Engineer	$ 70.30	0	$ 0.00	
Senior Project Engineer	$ 60.58	2	$ 121.16	
Project Engineer	$ 38.75	0	$ 0.00	
Engineering Intern	$ 28.13	12	$ 337.56	
Driller	$ 24.83	0	$ 0.00	
Assistant Driller	$ 19.00	0	$ 0.00	
Draftsperson/CAD Operator	$ 28.00	3	$ 84.00	
Senior Field Technician	$ 28.58	5	$ 142.90	
Clerical	$ 25.75	2	$ 51.50	
TOTAL DIRECT LABOR	$ 30.71	24		$ 737.12
6. Overhead (Combined Fringe Benefit & Administrative) Overhead Rate	200 % x Total Direct Labor			$ 1,474.24
7. SUBTOTAL: Labor + Overhead (Items 5 & 6)				$ 2,211.36
8. PROFIT: Labor Related Costs (Item 7)		x	10%	$ 221.14

PART III - OTHER COSTS

9. Miscellaneous Direct Costs (Lump Sum)				
Field Exploration				
Mob of Crew & Eq. -Track/ATV Rig	1	$600.00	$ 600.00	
Drill Rig Support Vehicle, per day	1	$260.00	$ 260.00	
Movement Crew, per hr	2	$185.00	$ 370.00	
SPT Boring : 0 to 30 feet, per LF	60	$14.00	$ 840.00	
SPT Boring: 30 to 50 feet, per LF	0	$16.50	$ 0.00	
SPT Boring-Xtra Samples: 0-50 feet, ea.	9	$40.00	$ 360.00	
Undisturbed Samples: 0 to 50 feet, ea.	0	$155.00	$ 0.00	
Auger Borings, per LF	0	$13.00	$ 0.00	
Field Permeability Test, each	0	$375.00	$ 0.00	
Double-Ring Infiltrometer Test, each	0	$450.00	$ 0.00	
Grouting Borings, 0-50 feet, per LF	0	$8.00	$ 0.00	
Temporary Casing, 4-inch, per foot	0	$11.00	$ 0.00	
Mobilization of Clearing Equipment	1	$400.00	$ 400.00	
Clearing for Access, per day	1	$1,760.00	$ 1,760.00	
Laboratory Testing				
Natural Moisture Content, ea.	8	$16.00	$ 128.00	
Percent Passing No. 200 Sieve, ea	8	$50.00	$ 400.00	
Soil Gradation, ea	0	$65.00	$ 0.00	
Organic Content, ea	2	$50.00	$ 100.00	
Atterberg Limits, ea	0	$90.00	$ 0.00	
Corrosion Series, ea	0	$240.00	$ 0.00	
Miscellaneous Engineering Fees				
Mileage to Project Site, per mile	40	$0.585	$ 23.40	
MISCELLANEOUS DIRECT COSTS SUB-TOTAL				$ 5,241.40
10. SUBCONSULTANTS (Lump Sum)			$	
SUB-CONTRACT SUB-TOTAL (Reimb/NTE)				$ -
11. SUBCONTRACTS (Reimbursable/Not to Exceed)			$	
SUB-TOTAL REIMBURSABLES				$ -

PART IV - SUMMARY

TOTAL AMOUNT OF CONTRACT (Lump Sum Plus Reimbursables) (Items 5, 6, 8, 9, 10, and 11)	**$ 7,673.90**
12. TOTAL PRIOR CONTRACT AMOUNT	N.A.
TOTAL AMENDED CONTRACT AMOUNT	N.A.

EXHIBIT D

PROPOSAL AUTHORIZATION
For Additional Geotechnical Services
Jacksonville Fairgrounds Relocation Project - Pond Expansion
Jacksonville, Florida
MAE Proposal No. 041822.11

Billing Information:

Company Name: _____

Attention: _____
Company
Address: _____

Phone No.: _____ Email: _____

Project Contact Name:
(if different than above) _____

Additional Reports: Please List Below Any Additional Parties To Receive Reports.

1. _____

_____

No. of Reports Required:_____

2. _____

_____

No. of Reports Required:_____

NOTE: Our fee includes submittal of an electronic copy for each report. If bound paper copies are requested, the client will be charged $100 for each additional copy.

MAE invoices should be received by you by the _____ of each month (date required for your processing)

The Client representative named below has read the General Conditions that are attached and made a part of this proposal, and agrees to be bound to the terms of the General Conditions.

Name: _____ Title: _____

Signature: _____ Date: _____

PROPOSAL DOCUMENT GENERAL CONDITIONS

Payment – Payment shall be due within 30 days after date of invoice.

Insurance – Meskel & Associates Engineering (MAE) maintains Commercial General Liability with limits of $1,000,000 – per occurrence, $2,000,000 general aggregate, $2,000,000 products and completed operations aggregate. A certificate of insurance can be provided at your request evidencing such coverage. All subcontractors to MAE maintain Workers' Compensation, Employer's Liability with limits of $1,000,000 bodily injury by accident – each accident, $1,000,000 bodily injury by disease – each employee, $1,000,000 bodily injury by disease – policy limit. Workers Compensation coverage is in accordance with the Workers Compensation Law for the State of Florida.

Professional Liability: MAE maintains Professional Liability with limits of $2,000,000 each claim and $3,000,000 aggregate. A certificate of insurance can be provided at your request evidencing such coverage.

Right-of-Entry – Unless otherwise agreed, Client will furnish right-of-entry on the property for MAE to make the planned borings, surveys, and/or exploration. MAE will take reasonable precautions to minimize damage to the property caused by its equipment and sampling procedures, but the cost of restoration or damage which may result from the planned operations is not included in the contracted amount.

Legal Jurisdiction – The parties agree that any actions brought to enforce any provision of this Agreement shall only be brought in a court of competent jurisdiction located in Jacksonville, Duval County, Florida.

Damage to Existing Man-made Objects – It shall be the responsibility of the Owner or his duly authorized representative to disclose the presence and accurate location of all hidden or obscure man-made objects relative to field tests, sampling, or boring locations. When cautioned, advised or given data in writing that reveal the presence or potential presence of underground or overhead obstructions, such as utilities, MAE will give special instructions to its field personnel. As evidenced by your acceptance of this proposal, Client agrees to indemnify and save harmless MAE from all claims, suits, losses, personal injuries, death and property liability resulting from unusual subsurface conditions or damages to subsurface structures, owned by Client or third parties, occurring in the performance of the proposed work, whose presence and exact locations were not revealed to MAE in writing, and to reimburse MAE for expenses in connection with any such claims or suits, including reasonable attorney's fees.

Limitation of Responsibility – Client hereby agrees to the fullest extent permitted by law the Consultant's total liability to Client for any and all injuries, claims, losses, expenses or damages whatsoever arising out of or in any way relating to the project, the site, or this Agreement from any cause or causes including but not limited to the Consultant's negligence, errors, omissions, strict liability, breach of contract, or breach of warranty shall not exceed the greater of the total amount paid by the Client for the services of the Consultant under this contract or $50,000.00, whichever is greater.

Client and the Consultant agree that to the fullest extent permitted by law the Consultant shall not be liable to Client for any special, indirect or consequential damages whatsoever, whether caused by the Consultant's negligence, errors, omissions, strict liability, breach of contract, breach of warranty or other cause or causes whatsoever.

To the fullest extent permitted by law, Client agrees to defend, indemnify, and hold Consultant, its agents, subcontractors, and employees harmless from and against any and all claims, defense costs, including attorneys' fees, damages, and other liabilities arising out of or in any way related to Consultant's reports or recommendations concerning this Agreement, Consultant's presence on the project property, or the presence, release, or threatened release of asbestos, hazardous substances, or pollutants on or from the project property, **provided that** Client shall not indemnify Consultant against liability for damages to the extent caused by the negligence or intentional misconduct of Consultant, its agents, subcontractors, or employees.

Use of Documents – All documents, including but not limited to drawings, specifications, reports, and data or programs stored electronically, prepared by the Consultant are related exclusively to the services described in this Agreement, and may be used only if the Client has satisfied all of its obligations under this Agreement. They are not intended or represented to be suitable for use, partial use or reuse by the Client or others on extensions of this project or on any other project. Any modifications made by the Client to any of the Consultant's documents, or any use, partial use or reuse of the documents without written authorization or adaptation by the Consultant will be at the Client's sole risk and without liability to the Consultant, and the Client shall indemnify, defend and hold the Consultant harmless from all claims, damages, losses and expenses, including but not limited to attorneys' fees, resulting therefrom. The Consultant's electronic files and source code developed in the development of application code remain the property of the Consultant and shall be provided to the Client only if expressly provided for in this Agreement. Any electronic files not containing an electronic seal are provided only for the convenience of the Client, and use of them is at the Client's sole risk. In the case of any defects in the electronic files or any discrepancies between them and the hardcopy of the documents prepared by the Consultant, the hardcopy shall govern. Because data stored in electronic media format can deteriorate or be modified without the Consultant's authorization, the Client has 60 days to perform acceptance tests, after which it shall be deemed to have accepted the data.

PURSUANT TO FLORIDA STATUTES SECTION 558.0035 (2013) AN INDIVIDUAL EMPLOYEE OR AGENT OF MAE MAY NOT BE HELD INDIVIDUALLY LIABLE FOR NEGLIGENCE.

Sampling or Testing Location – Unless specifically stated to the contrary, the fees included in this proposal do not include costs associated with professional land surveying of the site or the accurate horizontal and vertical locations of tests. Field tests or boring locations described in our report or shown on our sketches are based on specific information furnished to us by others or estimates made in the field by our technicians. Such dimensions, depths or elevations should be considered as approximations unless otherwise stated in the report.

Sample Handling and Retention – Generally test samples or specimens are consumed and/or substantially altered during the conduct of tests and MAE, at its sole discretion, will dispose (subject to the following) of any remaining residue immediately upon completion of test unless required in writing by the Client to store or otherwise handle the samples. (a) NON HAZARDOUS SAMPLES: At Client's written request, MAE will store test samples and specimens, or the residue thereof for ninety (90) days after submission of MAE's report to Client free of storage charges. After the initial 90 days and upon written request, MAE will store test specimens or samples for a mutually acceptable storage charge and period of time. (b) HAZARDOUS OR POTENTIALLY HAZARDOUS SAMPLES: In the event that samples contain substances or constituents hazardous or detrimental to human health, safety or the environment as defined by federal, state or local statutes, regulations, or ordinances ("Hazardous Substances" and "Hazardous Constituents", respectively), MAE will, after completion of testing and at Client's expense: (i) return such samples to Client; (ii) using a manifest signed by Client as generator, will have such samples transported to a location selected by Client for final disposal. Client agrees to pay all costs associated with the storage, transport, and disposal of such samples. Client recognizes and agrees that MAE is acting as a Bailee and at no time does MAE assume title of said waste.

Discovery of Unanticipated Hazardous Materials – Hazardous materials or certain types of hazardous materials may exist at a site where there is no reason to believe they could or should be present. MAE and Client agree that the discovery of unanticipated hazardous materials constitutes a changed condition mandating a renegotiation of the scope of work or termination of services. MAE and Client also agree that the discovery of unanticipated hazardous materials may make it necessary for MAE to take immediate measures to protect health and safety. MAE agrees to notify Client as soon as practicable should unanticipated hazardous materials or suspected hazardous materials be encountered. Client encourages MAE to take any and all measures that, in MAE's professional opinion, are justified to preserve and protect the health and safety of MAE's personnel and the public. Client agrees to compensate MAE for the additional cost of working to protect employees' and the public's health and safety. In addition, Client waives any claim against MAE, and agrees to defend, indemnify and save MAE harmless from any claim or liability for injury or loss arising from MAE's discovery of unanticipated hazardous materials or suspected hazardous materials. Client also agrees to compensate MAE for any time spent and expenses incurred by MAE in defense of any such claim, with such compensation to be based upon MAE's prevailing fee schedule and expense reimbursement policy relative to recovery of direct project costs.

Force Majeure – MAE shall not be held responsible for any delay or failure in performance of any part of this Agreement to the extent such delay or failure is caused by fire, flood, explosion, war, strike, embargo, government requirement, civil or military authority, acts of God, act or omission of subcontractors, carriers, client or other similar causes beyond its control.

EXHIBIT D

COJ DB – Fairgrounds Relocation Project

Phase 2/3 – Earthwork & Mass Grading Proposal

EXHIBIT D

Date: 09/28/2023
Project: DB Services for Jacksonville Fairgrounds Relocation Project
Phase 2/3 - Clearing and Mass Grading Proposal Based on 30% Plans by GAI
City Contract #: 72022-22

Item	Quantity	U/M	Unit Price	Amount
General Conditions	1.00	LS	$ 337,806.89	$ 337,806.89
Survey	1.00	LS	$ 115,737.53	$ 115,737.53
CMT Testing Allowance	1.00	LS	$ 65,000.00	$ 65,000.00
Maintenance of Traffic	1.00	LS	$ 8,600.00	$ 8,600.00
Erosion Control	1.00	LS	$ 45,583.60	$ 45,583.60
Clearing & Grubbing	72.00	AC	$ 5,912.28	$ 425,684.16
Softball Field Demolition	1.00	LS	$ 188,116.63	$ 188,116.63
Site Prep/Demo	1.00	LS	$ 94,526.80	$ 94,526.80
Site Strippings (Stockpile)	66,652.00	CY	$ 4.92	$ 327,927.84
Site Strippings (Dispose Onsite)	66,652.00	CY	$ 3.26	$ 217,285.52
Pond Excavation	299,236.00	CY	$ 5.47	$ 1,636,820.92
Pond Excavation to Stockpile	25,444.00	CY	$ 2.68	$ 68,189.92
Place & Compact	355,502.00	CY	$ 1.64	$ 583,023.28
Place & Compact (Pond Cap Strippings)	16,889.00	CY	$ 3.26	$ 55,058.14
Load / Haul Stockpile	69,015.00	CY	$ 2.68	$ 184,960.20
Remove / Replace Subsoil Exc. Allowance	15,000.00	CY	$ 16.16	$ 242,400.00
Grassing - Sod (Pond Banks)	33,355.00	SY	$ 3.31	$ 110,405.05
Subtotal - Ph2/Ph3 Clear & Mass Grade				**$ 4,707,126.48**
Contingency	10%			$ 470,712.65
Bond				$ 77,667.59
Design Builder Fee	10.0%			$ 525,550.67
PH2/PH3 - Clearing & Mass Grading (Based on 30% GAI Plans) Total				**$ 5,781,057.39**

EXHIBIT D

COJ DB – Fairgrounds Relocation Project

Phase 1 - 100% Design Services

Proposal

EXHIBIT D

Contract Fee Sumary for Engineering Division
DB Services for Jacksonville Fairgrounds Relocation Project (CDB 0053-22)
City of Jacksonville, FL

PART I - GENERAL

1. Project	2. City Contract Number
DB Services for Jacksonville Fairgrounds Relocation Project - Phase 1 100% Design Services	72022-22
3. Name of Contractor	**4. Date of Proposal**
J. B. Coxwell Contracting, Inc.	9/29/2023

PART II - LABOR RELATED COSTS

5. DIRECT LABOR	Hourly Rate	Estimated Hours	Estimated Costs	TOTAL
Principal (Senior Officer)	$ 110.00	10.00	$ 1,100.00	
Design Build Manager	$ 90.00	100.00	$ 9,000.00	
Project Manager	$ 90.00	20.00	$ 1,800.00	
Project Engineer	$ 70.00	20.00	$ 1,400.00	
Administrative Assistant	$ 35.00	30.00	$ 1,050.00	
Estimator	$ 55.00	40.00	$ 2,200.00	
Estimating Assistant	$ 35.00	10.00	$ 350.00	
Staff Accountant	$ 55.00	-	$ -	
CADD / Comp Technician	$ 30.00	-	$ -	
			TOTAL DIRECT LABOR	$ 16,900.00
6. OVERHEAD (Combined Fringe Benefits & Administrative) *Overhead Rate 54.46%*				$ 9,203.74
			LABOR SUB-TOTAL	$ 26,103.74

PART III - OTHER COSTS

7. MISCELLANEOUS DIRECT COSTS	
Misc. Direct Expenses	$ 1,000.00
MISCELLANEOUS DIRECT COSTS TOTAL	$ 1,000.00
8. SUBCONSULTANTS/SUBCONTRACTORS	
GAI Consultants, Inc. (60% Design Services - Phase 1)	$ 191,814.43
SUBCONSULTANTS / SUBCONTRACTORS TOTAL	$ 191,814.43
OTHER COSTS SUB-TOTAL	$ 192,814.43

PART IV - CONTINGENCY

9. CONTINGENCY	x *0%*	

PART V - FEE SUMMARY

SUBTOTAL - (Parts II & III, IV)		$218,918.17
10. Design Builder Fee (Parts II & III)	x *10.0%*	$ 21,891.82
11. Payment & Performance Bond		$6,024.52
GRAND TOTAL (1-11)		**$ 246,834.51**

EXHIBIT D

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September 27, 2023

Josh Sowards
Project Manager
J. B. Coxwell Contracting, Inc.
6741 Lloyd Road
Jacksonville, FL 32254

Subject: Design-Build Services for Jacksonville Fairgrounds Relocation Project (CDB-0053-22) / Supplement #6 for: Phase 1 100% Design and Permitting Services

Dear Mr. Sowards

GAI Consultants, Inc. (GAI) respectfully submits the following Scope of Services and Fee Proposal commence professional services for the subject project.

Scope of Work

COJ Representatives, the DB Team, and the GJAF Consultants have coordinated various project components and the COJ has approved the DB Team to proceed with 100% design services for Phase 1 and incorporate the site revisions provided by GJAF consultants. Accordingly, GAI's services to effectuate the deliverables associated with the 100% Design of Phase 1 are further outlined below and are based on GAI's best assumptions to date:

1. GAI will progress the Phase 1 100% Design Documents, based on the comments received to date from COJ and the COJ approved comments from GJAF and their consultants.

   These drawings will consist of, at a minimum: site clearing and demolition plans, grading and drainage plans, stormwater management collection, conveyance and treatment facilities, utility design plans (water/sewer/electric), communication design plans, preliminary roadway plans for improvements needed to access and traverse the proposed site, proposed parking lot plans (both paved and unpaved), and appropriate details and specifications.

   The Fairgrounds project will finalize the design one (1) new lift station and the modifications of the existing lift station on-site. GAI's efforts include finalizing demand calculations for the wet utilities, and design coordination meetings with COJ and GJAF to develop the most optimum solution.

   GAI will also progress the design of the relocation of the existing private utilities within the footprint of the proposed GJAF Exposition Hall.

   No off-site improvements are included in this scope of work. It is assumed that the existing drainage culvert under Normandy Blvd. is suitable to receive post-development stormwater flow from Phase 1 (and all future phases as may be applicable). Upon the future design and development of off-site turn lanes on Normandy Blvd., this culvert will need to be extended/modified.

   GAI's scope of work includes 100% landscape and irrigation plans for the proposed improvements in Phase 1. GAI will continue to work with the COJ and GJAF to coordinate the desired tree and plant material selection for the project. No decorative hardscape design is anticipated or included in this proposal. No tree mitigation plans are included as this site is exempt from tree mitigation services.

GAI's design scope of work also includes revisions to the 60% design to accommodate the preferred bus drop off layout selected by GJAF. Based on recent conversations with GJAF staff and the COJ, we anticipate the need to also make some revisions to the water and sewer layout plan in order to accommodate some additional concessions and/or restroom facilities. We have included money for these efforts based on the joint GJAF board meeting held on September 8, 2023. It is assumed that these changes are not significant enough to require design revisions to GAI's lift station design efforts.

2. Under this scope of services, GAI will respond to Agency review comments to further advance the documents for completion and issuance of Construction Documents. The following is a summary of the regulatory reviews that are applicable to this project which that are included in this task:

    - City of Jacksonville Development Review
    - St. Johns River Water Management District (Stormwater Only – No wetland impact permitting is required for Phase 1). *Note: Wetland Permitting Services for the balance of the project have already been authorized under the project's initial scope of work.*
    - JEA Permitting for Water, Sewer, and a new Master Pump Station.
    - Support JEA Electric Services as outlined in Supplement 3, Item 5.
    - FDOT Utility and Drainage Connection Permitting Only.
    - FDEP Water Permit Only (if less than 40' of water main).

3. GAI's scope of work under this proposal includes fees to cover progress review meetings with the City, JBCCI, Greater Jacksonville Agricultural Fair and their consultants through December 2023.

Key Assumptions and Exclusions

1. No other services other than those outlined within this proposal are included at this time.
2. Post Design Services will be provided at a later date as part of the JBCCI Guaranteed Maximum Price Proposal for Phase 1 of construction. We have included a minimal amount of shop drawing review efforts in order to keep the project on-schedule while the GMP proposal is being processed.

If you have any questions, please give me a call.

Sincerely,

Nick Mousa, AICP

Assistant Vice President

Attachments:
- Fee Summary

EXHIBIT D

Contract Fee Sumary for Engineering Division
DB Services for Jacksonville Fairgrounds Relocation Project (CDB 0053-22)
City of Jacksonville, FL

PART I - GENERAL

1. Project DB Services for Jacksonville Fairgrounds Relocation Project - Supplement #6 100% Design and Permitting of Phase 1	**2. City Contract Number** TBD
3. Name of Consultant GAI Consultants, Inc.	**4. Date of Proposal** 9/27/2023

PART II - LABOR RELATED COSTS

5. DIRECT LABOR	Hourly Rate	Estimated Hours	Estimated Cost	TOTAL
Principals	$ 111.33	16	$ 1,781.28	
Project Manager	$ 95.00	32	$ 3,040.00	
Sr. Project Engineer	$ 79.98	88	$ 7,038.24	
Project Engineer	$ 63.07	76	$ 4,793.32	
Engineer Intern	$ 37.70	258	$ 9,726.60	
Sr. LA Manager	$ 64.00	32	$ 2,048.00	
Project LA	$ 46.23	64	$ 2,958.72	
LA Technician	$ 31.12	148	$ 4,605.76	
Lead Designer	$ 41.20	252	$ 10,382.40	
Planning Manager	$ 56.77	0	$ 0.00	
Sr. Planner	$ 36.00	0	$ 0.00	
CAD Operator (Survey and Civil)	$ 30.00	356	$ 10,680.00	
Surveyor (PSM)	$ 69.29	8	$ 554.32	
Three-Man Survey Crew	$ 100.21	12	$ 1,202.52	
Admin	$ 26.93	24	$ 646.32	
			TOTAL DIRECT LABOR	$59,457.48
6. OVERHEAD (Combined Fringe Benefits & Administrative) Overhead Rate 177.99%				$105,828.37
7. SUBTOTAL: Labor + Overhead (Items 5 & 6)				$165,285.85
8. PROFIT: Labor Related Costs (Item 7)			x 10%	$16,528.58
TOTAL LUMP SUM LABOR FEE (GAI)				**$181,814.43**

PART III - OTHER COSTS

9. MISCELLANEOUS DIRECT COSTS	
Permitting Fees	$ 2,000.00
Misc. Direct Expenses (Lump Sum)	$ 3,000.00
MISCELLANEOUS DIRECT COSTS SUB-TOTAL	**$ 5,000.00**
10. SUBCONSULTANTS / CONTINGENCY	
Irrigation Subconsultant (Allowance)	$ 5,000.00
SUB-CONTRACT SUB-TOTAL	**$5,000.00**

PART IV - FEE SUMMARY

TOTAL FEE - (Items 5, 6, 8, 9 and 10)	**$191,814.43**

EXHIBIT D

COJ DB – Fairgrounds Relocation Project

Offsite - 60% Design Services

Proposal

EXHIBIT D

Contract Fee Sumary for Engineering Division
DB Services for Jacksonville Fairgrounds Relocation Project (CDB 0053-22)
City of Jacksonville, FL

PART I - GENERAL

1. Project DB Services for Jacksonville Fairgrounds Relocation Project - Offsite Construction - 60% Design Services	**2. City Contract Number** 72022-22
3. Name of Contractor **J. B. Coxwell Contracting, Inc.**	**4. Date of Proposal** 9/29/2023

PART II - LABOR RELATED COSTS

5. DIRECT LABOR	Hourly Rate	Estimated Hours	Estimated Costs	TOTAL
Principal (Senior Officer)	$ 110.00	10.00	$ 1,100.00	
Design Build Manager	$ 90.00	120.00	$ 10,800.00	
Project Manager	$ 90.00	20.00	$ 1,800.00	
Project Engineer	$ 70.00	20.00	$ 1,400.00	
Administrative Assistant	$ 35.00	30.00	$ 1,050.00	
Estimator	$ 55.00	40.00	$ 2,200.00	
Estimating Assistant	$ 35.00	10.00	$ 350.00	
Staff Accountant	$ 55.00	-	$ -	
CADD / Comp Technician	$ 30.00	-	$ -	
			TOTAL DIRECT LABOR	$ 18,700.00
6. OVERHEAD (Combined Fringe Benefits & Administrative) ***Overhead Rate 54.46%***				$ 10,184.02
			LABOR SUB-TOTAL	$ 28,884.02

PART III - OTHER COSTS

7. MISCELLANEOUS DIRECT COSTS	
Misc. Direct Expenses	$ 1,000.00
MISCELLANEOUS DIRECT COSTS TOTAL	$ 1,000.00
8. SUBCONSULTANTS/SUBCONTRACTORS	
GAI Consultants, Inc. (60% Design Services - Phase 1)	$ 239,232.83
SUBCONSULTANTS / SUBCONTRACTORS TOTAL	$ 239,232.83
OTHER COSTS SUB-TOTAL	$ 240,232.83

PART IV - CONTINGENCY

9. CONTINGENCY	x *0%*	

PART V - FEE SUMMARY

SUBTOTAL - (Parts II & III, IV)		**$269,116.85**
10. Design Builder Fee (Parts II & III)	x *10.0%*	$ 26,911.69
11. Payment & Performance Bond		**$6,852.80**
GRAND TOTAL (1-11)		**$ 302,881.34**

EXHIBIT D

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September 14, 2023

GAI Project R220219.00

Mr. Josh Sowards
Project Manager
J.B. Coxwell Contracting, Inc.
6741 Lloyd Road
Jacksonville, Florida 32254

Fee Proposal for Design Build Services
Jacksonville Fairgrounds Relocation - Supplement #5 for: 60% Design Services for Turn Lanes
Jacksonville, Florida

Dear Mr. Sowards:

GAI Consultants, Inc. (GAI) respectfully submits the following Scope of Services and Fee Proposal commence professional services for the subject project.

Scope of Services

Task 1: 60 % Design Services including Survey

Traffic Impact Study

The JB Coxwell Contracting, Inc. (JBCCI) / GAI Consultants, Inc. (GAI), the Design Build Team (DB Team), contracted with their subconsultant Chindalur Traffic Solutions, Inc. to complete the Traffic Impact Study for the proposed Fairgrounds Relocation.

- COJ has approved the DB Team to proceed with 60% Design Services for the four proposed improvements outlined below in this study:
  - Provide a westbound right turn lane (approximately 1,000 feet) on Normandy Boulevard at the proposed Finger Lake Road Extension. This proposed turn lane will cross over top of the existing box culvert across Rowell Creek. No structural engineering, load rating or design of a box culvert extension to this existing structure is included as part of this scope and fee. The existing headwall will remain and guardrail will be proposed as part of the new turn lane.
  - Provide an eastbound left turn lane (approximately 1,000 ft) on Normandy Boulevard at the proposed Finger Lake Road Extension. The proposed intersection of Finger Lake Road occurs at an existing vehicular crossover on Normandy Blvd. (SR 228). This crossover is to remain and the new turn lane design to be constructed to the west of this location. The existing turn lane will drain to the median and additional pipe crossings across the two lanes of the FDOT Roadway will be designed as necessary.
  - Provide a westbound right turn lane (approximately 600 feet) on Normandy Boulevard at the proposed Right-In-Right-Out Driveway.
  - Provide a southbound right turn lane (approximately 600 feet) on POW MIA Memorial Boulevard at Finger Lake Road.
- The design on Normandy Blvd. (SR 228) will be designed to FDOT standards and specifications. The design along POW MIA Memorial Blvd. will be completed to COJ standards and specifications.

- It is expected that all 4 turn lanes will be exempt from SJRWMD Permitting Requirements Per 62-330.051(4)(C)4b since all 4 turn lanes are each less than 0.25 miles in overall length.

Topographic Survey

- Full Topographic Survey will be completed by GAI on SR 228 from right-of-way to right-of-way and on the southbound section of POW MIA Memorial Blvd. The survey is to include all existing drainage structures, storm pipes and inverts on both sides of the roadway.

60% Plans Set

- This scope of work includes a 60% Plans Set. It is intended that the drawings will have enough detail suitable for GAI to make the first-round permit submittals to the below agencies:
  - Florida Department of Transportation (FDOT) Driveway Connection Permit
  - City of Jacksonville Development Services Review (10 Set)
  - SJRWMD Permit Determination Schedule
- The review of comments from these agencies, final design and future permitting submittals will be included as part of a separate scope and fee proposal.
- The plans will also have enough detail to assist JBCCI with development of a GMP for the construction of all turn lane infrastructure. Any project components that are still unknown at the conclusion of this 60% design effort will be identified so that JBCCI can qualify their GMP proposal accordingly and provide for allowances as may be necessary. It is assumed the construction of the 3 turn lanes on Normandy Blvd. (SR 228) will require permanent MOT striping and RPM's be installed as part of the temporary traffic control plans. This will require the existing friction course be milled and resurfaced where the lanes were shifted and the temporary striping and RPM's was removed.
- Plans for all 4 turn lanes shall be completed concurrently in one overall plan set which shall include at a minimum:
  - Key Sheet
  - Signature Sheet
  - Drainage Map
  - General Notes
  - Typical Sections – 2 typical sections are expected one rural section on SR 228 and one urban curb and gutter section on POW MIA Memorial Blvd.
  - Project Layout
  - Plan and Profile Sheets
  - Milling and Resurfacing Plan Sheets
  - Roadway Cross Sections
  - Drainage Structures Cross Sections
  - Utility / Lighting Relocation Plans
  - Erosion Control General Notes
  - Erosion Control Details
  - Maintenance of Traffic General Notes
  - Maintenance of Traffic Typical Sections
  - Maintenance of Traffic Plan Sheets

- Signing and Pavement Marking General Notes and Details
- Signing and Pavement Marking Plan Sheets

Task 2: Wetland Delineation and Permitting

GAI will contract with SES Environmental Resource Solutions LLC (ERS) to provide wetland delineation and permitting assistance services in support of the obtaining the necessary permits for the construction of the turn lanes. ERS will provide the following services:

- SES Environmental Resource Solutions LLC (ERS) will delineate the limits of jurisdictional wetlands associated with the project pursuant to the current regulations and guidance of the St. Johns River Water Management District (SJRWMD), Florida Department of Environmental Protection (FDEP), and U.S. Army Corps of Engineers (USACE). Wetland limits will be delineated in the field with sequentially numbered survey tape, and the approximate position of each point will be located with a handheld Global Positioning System (GPS) device. Upon completion of the delineation, ERS will provide a flagging map indicating the approximate limits of the jurisdictional wetlands, the approximate acreage, and the alpha-numeric designations of the beginning and ending flag of each wetland line established.
- ERS will assist the project engineer in preparing all necessary documentation and graphics required for submittal of a permit application to SJRWMD. This task includes assisting the client with permit application preparation, mitigation plan preparation, conservation easement and mitigation bank coordination (as needed), responses to agency Requests for Additional Information, and ERS attendance at meetings with the regulatory agency as needed. ERS will require final plans in AutoCAD format prior to initiating permit application preparation.
- If impacts to jurisdictional waters of the United States are proposed, ERS will prepare all necessary documentation and graphics required for submittal of a federal Clean Water Act Section 404 permit application. This task includes assisting the client with permit application preparation, mitigation plan preparation, conservation easement and mitigation bank coordination (as needed), responses to agency Requests for Additional Information, and ERS attendance at meetings with the regulatory agency as needed. ERS will require final plans in AutoCAD format prior to initiating permit application preparation.

Task 3: Geotechnical

GAI will contract with Meskel & Associates Engineering to provide geotechnical exploration and engineering services necessary for the turn lane design. Meskel will provide the following services:

Meskel will explore the subsurface conditions within the areas of proposed construction. Sixteen (16) hand auger borings within the turn lane extensions are proposed to a depth of 6-feet, four (4) pavement cores to a depth of 2-feet are proposed within POW-MIA Memorial Parkway and Normandy Blvd., and two (2) bulk samples in the upper 12-inched of subgrade are proposed to determine the limerock bearing ratio are proposed.

Assumptions and Exclusions

GAI's Scope of Services, Schedule, and Compensation as set forth above have been prepared on the basis of the following assumptions and exclusions:

1. No final project design or final permitting is included in this scope of work.
2. No site inspection of construction administration services is included in this scope of work other than the post-design services outlined in the scope of work above.
3. No other services other than those outlined within this proposal are included at this time.
4. No right of way acquisition.

EXHIBIT D

If you have any questions, please give me a call.

Sincerely,

Nick Mousa, AICP

Assistant Vice President

Attachments:
- Fee Summary

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EXHIBIT D

Contract Fee Summary for Engineering Division
DB Services for Jacksonville Fairgrounds Relocation Project (CDB 0053-22)
City of Jacksonville, FL

PART I - GENERAL

1. Project DB Services for Jacksonville Fairgrounds Relocation Project - Supplement #5 60% Design of 4 Turn Lanes Design	**2. City Contract Number** TBD
3. Name of Consultant GAI Consultants, Inc.	**4. Date of Proposal** 9/14/2023

PART II - LABOR RELATED COSTS

5. DIRECT LABOR	Hourly Rate	Estimated Hours	Estimated Cost	TOTAL
Principal	$ 111.33	16	$ 1,781.28	
Project Manager	$ 95.00	88	$ 8,360.00	
Sr. Project Engineer	$ 79.98	160	$ 12,796.80	
Project Engineer	$ 63.07	174	$ 10,974.18	
Engineer Intern	$ 37.70	179	$ 6,748.30	
Lead Designer	$ 41.20	184	$ 7,580.80	
CAD Operator (Survey and Civil)	$ 30.00	126	$ 3,780.00	
Surveyor (PSM)	$ 69.29	40	$ 2,771.60	
Three-Man Survey Crew	$ 100.21	110	$ 11,023.10	
Admin	$ 26.93	24	$ 646.32	
			TOTAL DIRECT LABOR	$ 66,462.38
6. OVERHEAD (Combined Fringe Benefits & Administrative) Overhead Rate 177.99%				$ 118,296.39
7. SUBTOTAL: Labor + Overhead (Items 5 & 6)				$ 184,758.77
8. PROFIT: Labor Related Costs (Item 7)			x 10%	$ 18,475.88
TOTAL LUMP SUM LABOR FEE (GAI)				**$ 203,234.65**

PART III - OTHER COSTS

9. MISCELLANEOUS DIRECT COSTS (Lump Sum)	
Misc. Direct Costs	$ 3,000.00
MISCELLANEOUS DIRECT COSTS SUB-TOTAL	**$ 3,000.00**
10. SUBCONSULTANTS / CONTINGENCY	
Geotechnical Engineering (Meskel & Associates)	$ 10,536.50
Environmental Consultant (SES Environmental Resource Solutions)	$ 17,461.68
Subconsultant Expenses (Reimbursable)	$ 5,000.00
SUB-CONTRACT SUB-TOTAL	**$ 32,998.18**

PART IV - FEE SUMMARY

TOTAL FEE - (Items 5, 6, 8, 9 and 10)	**$ 239,232.83**

EXHIBIT D

Meskel & Associates Engineering
Geotechnical r Environmental r Inspection r Testing

September 5, 2023

Rebecca Bray, P.E.
GAI Consultants
12574 Flagler Center Boulevard, Suite 202
Jacksonville, Florida 32258

Subject: Proposal for Geotechnical Exploration and Engineering Services
COJ Fairgrounds FDOT Improvements
Jacksonville, Florida
MAE Proposal No. 230060

Dear Ms. Bray:

MESKEL & ASSOCIATES ENGINEERING, PLLC (MAE) is pleased to present this proposal to provide geotechnical exploration and engineering services for the subject project. Your proposal request email of August 31, 2023, included the suggested alignment of the proposed turn roadway extensions. Four separate roadway extensions have been proposed based on the traffic study excerpt provided by Ms. Bray.

Based on the provided information, we understand that the project will include the construction of east and west bound turn lanes along Normandy Road at the extension of Finger Lake Road (1,000 LF each), a westbound right turn lane on Normandy Boulevard at a proposed Right-In-Right-Out Driveway (600 LF), and a southbound right turn lane on POW-MIA Memorial Parkway at Finger Lake Road (600 LF).

The objective of the geotechnical exploration is to provide site and subsurface information to evaluate the subsurface conditions at the site for the proposed construction. Based on the provided information, we understand the following field services are requested at this time:

Test Location	Test No. & Type	Test Depth ft below ground surface
Turn Lane Extension	16 Hand Augers*	6
Pavement Cores, POW-MIA Memorial Parkway & Normandy Boulevard	4 Pavement Cores	2**
Limerock Bearing Ratio Samples	2 Bulk Samples	Upper 12" of subgrade

*Hand Auger Boring performed every 200 LF.

**Each core will be through pavement structure (asphalt surface and base material), plus 2-foot auger into subgrade

In accordance with Florida law, we will attempt to locate existing underground utilities at the site by utilizing the Sunshine State One-Call (SSOC) system. Any private utilities not included in the SSOC system will need to be located by the property Owner. We understand that the project surveyor will be locating utilities at the site, so a private utility locator will not be necessary.

We anticipate that MOT services will be necessary at the pavement core locations to maintain a safe work site for our field crew and to maintain traffic flow. Therefore, we have included MOT services (lane closures) in our estimate.

Auger borings for the roadway will be backfilled with soil cuttings upon completion. The pavement cores will be backfilled with soil cuttings to the bottom of the base course and then capped with an asphaltic cold-patch material to slightly above the adjacent pavement grade. We will take all reasonable

precautions to prevent damage to property and will reasonably restore the site to the condition existing prior to the start of our fieldwork.

The recovered soil samples will be described in the field by the field crew. The field logs and samples will be delivered to our laboratory where the logs will be reviewed and the samples classified by a geotechnical engineer. Laboratory classification and soil index tests will be performed in general accordance with ASTM and/or Florida Method (FM) procedures for each applicable test as necessary on selected soil samples to confirm the soil and/or environmental classification and provide engineering characteristics to estimate compressibility.

The asphalt surface and underlying base layers will be measured for thickness at each core location by the field crew. The asphalt pavement surface layer cores will be returned to our laboratory for observation and to be photographed for our report.

A geotechnical engineer, licensed in the State of Florida, will direct the geotechnical exploration and provide an engineering evaluation of the subsurface and pavement conditions encountered at the boring and pavement core locations. The results of the exploration and evaluation will be documented in a report that will include the following:

- Our understanding of the planned construction,
- The observed site conditions, such as topography, surface vegetation, pavement condition, etc. as they relate to the anticipated construction,
- The field and laboratory test procedures used and the results obtained,
- The encountered subsurface conditions, including subsurface profiles, measured groundwater levels, and estimated geotechnical engineering properties, as necessary,
- The observed pavement layer materials and their thickness,
- An estimate of the Seasonal High Groundwater Level at the site,
- A geotechnical engineering evaluation of the site and subsurface conditions with respect to the anticipated construction,
- Results of the limerock bearing ratio (LBR) tests,
- Recommendations for support of the new pavements, and
- Recommendations for testing required during site preparation and earthwork construction.

Based on the scope of the services outlined above, we propose completing our work for the not-to-exceed fee of **$10,536.50**. Please note that this fee is valid for 90 days following the date of this proposal. MAE reserves the right to revisit our proposal and adjust our fees as necessary if proposal acceptance is after 90 days.

Our proposed fee includes submittal of an electronic copy of the report. Bound, paper copies can be provided at an additional cost of $100 per copy. We will contact you immediately if we encounter subsurface conditions that could require the borings to be advanced to deeper depths, and/or if additional engineering analysis/evaluation outside the scope of this proposal is necessary.

A returned copy of the attached authorization sheet will authorize our work. Our work will be performed in accordance with our General Conditions, a copy of which is attached to and made a part of this proposal.

Once authorization is received, a utility locate request will be submitted. We will mobilize our field crew

to the site within 2 to 3 weeks once the utilities have been marked and located. We anticipate that the fieldwork will take a total of 3 to 5 days to complete, weather permitting. Laboratory testing will take up to one week depending on the amount of lab testing assigned. We expect to submit our geotechnical report 2 weeks after completion of all the field and laboratory testing.

We appreciate this opportunity to provide this proposal for your project. If you have any questions concerning this proposal, or if we can serve you in any other way, please contact me.

Sincerely,
MESKEL & ASSOCIATES ENGINEERING, PLLC

G. Clayton Purvis E.I.
Staff Engineer

P. Rodney Mank, P.E.
Principal Engineer

Attachments: Fee Summary Sheet

Distribution: Rebecca Bray, P.E. (R.Bray@gaiconsultants.com)

PROPOSAL AUTHORIZATION
For Geotechnical Services
COJ Fairgrounds FDOT Improvements
Jacksonville, Florida
MAE Proposal No. 230060

Billing Information:

Company Name: _____

Attention: _____
Company
Address: _____

Phone No.: _____ Email: _____

Project Contact Name:
(if different than above) _____

Additional Reports: Please List Below Any Additional Parties To Receive Reports.

1. _____

_____

No. of Reports Required:_____

2. _____

_____

No. of Reports Required:_____

NOTE: Our fee includes submittal of an electronic copy for each report. If bound paper copies are requested, the client will be charged $50 for each additional copy.

MAE invoices should be received by you by the _____ of each month (date required for your processing)

The Client representative named below has read the General Conditions that are attached and made a part of this proposal, and agrees to be bound to the terms of the General Conditions.

Name: _____ Title: _____

Signature: _____ Date: _____

EXHIBIT D

CONTRACT FEE SUMMARY FORMAT FOR ENGINEERING DIVISION
DB SERVICES FOR JACKSONVILLE FAIRGROUNDS RELOCATION PROJECT (CDB 0053-22)
CITY OF JACKSONVILLE, FLORIDA

PART I - GENERAL

1. Project DB Services Jacksonville Fairgrounds Re ocation Project FDOT Improvements	**2. City Contract No.** TBD
3. Name of Consultant or Subconsultant: MESKEL & ASSOCIATES ENGINEERING, PLLC	**4. Date of Proposal** September 5, 2023

PART II - LABOR RELATED COSTS

5. Direct Labor (Reimbursable)	Hourly Rate	Estimated Hours	Estimated Cost	TOTAL
Principal Engineer	$ 70.30	0	$ 0.00	
Senior Project Engineer	$ 60.58	4	$ 242.32	
Project Engineer	$ 38.75	0	$ 0.00	
Engineering Intern	$ 28.13	18	$ 506.34	
Driller	$ 24.83	0	$ 0.00	
Assistant Driller	$ 19.00	0	$ 0.00	
Draftsperson/CAD Operator	$ 28.00	5	$ 140.00	
Senior Field Technician	$ 28.58	5	$ 142.90	
Clerical	$ 25.75	2	$ 51.50	
TOTAL DIRECT LABOR	$ 31.85	34		$ 1,083.06
6. Overhead (Combined Fringe Benefit & Administrative) Overhead Rate	200 % x Total Direct Labor			$ 2,166.12
7. SUBTOTAL: Labor + Overhead (Items 5 & 6)				**$ 3,249.18**
8. PROFIT: Labor Related Costs (Item 7)	x		**10%**	$ 324.92

PART III - OTHER COSTS

9. Miscellaneous Direct Costs (Lump Sum)				
Field Exploration				
Mob of Crew & Eq. -Track/ATV Rig	1	$600.00	$ 600.00	
Drill Rig Support Vehicle, per day	1	$260.00	$ 260.00	
Movement Crew, per hr	4	$150.00	$ 600.00	
SPT Boring : 0 to 30 feet, per LF	0	$14.00	$ 0.00	
SPT Boring: 30 to 50 feet, per LF	0	$16.50	$ 0.00	
SPT Boring-Xtra Samples: 0-50 feet, ea.	0	$40.00	$ 0.00	
Undisturbed Samples: 0 to 50 feet, ea.	0	$155.00	$ 0.00	
Auger Borings, per LF	96	$13.00	$ 1,248.00	
Field Permeability Test, each	0	$375.00	$ 0.00	
Double-Ring Infiltrometer Test, each	0	$450.00	$ 0.00	
Grouting Borings, 0-50 feet, per LF	0	$8.00	$ 0.00	
Temporary Casing, 4-inch, per foot	0	$11.00	$ 0.00	
Maintenance of Traffic	1	$1,500.00	$ 1,500.00	
Pavement Cores and Patching	4	$250.00	$ 1,000.00	
Laboratory Testing				
Natural Moisture Content, ea.	11	$16.00	$ 176.00	
Percent Passing No. 200 Sieve, ea	0	$50.00	$ 0.00	
Soil Gradation, ea	11	$65.00	$ 715.00	
Organic Content, ea	2	$50.00	$ 100.00	
Atterberg Limits, ea	1	$90.00	$ 90.00	
Limerock Bearing Ratio	2	$325.00	$ 650.00	
Miscellaneous Engineering Fees				
Mileage to Project Site, per mile	40	$0.585	$ 23.40	
MISCELLANEOUS DIRECT COSTS SUB-TOTAL				$ 6,962.40
10. SUBCONSULTANTS (Lump Sum)			$	
SUB-CONTRACT SUB-TOTAL (Reimb/NTE)				$ -
11. SUBCONTRACTS (Reimbursable/Not to Exceed)			$	
SUB-TOTAL REIMBURSABLES				$ -

PART IV - SUMMARY

TOTAL AMOUNT OF CONTRACT (Lump Sum Plus Reimbursables) (Items 5, 6, 8, 9, 10, and 11)	**$ 10,536.50**
12. TOTAL PRIOR CONTRACT AMOUNT	N.A.
TOTAL AMENDED CONTRACT AMOUNT	N.A.

PROPOSAL DOCUMENT GENERAL CONDITIONS

Payment – Payment shall be due within 30 days after date of invoice.

Insurance – Meskel & Associates Engineering (MAE) maintains Commercial General Liability with limits of $1,000,000 – per occurrence, $2,000,000 general aggregate, $2,000,000 products and completed operations aggregate. A certificate of insurance can be provided at your request evidencing such coverage. All subcontractors to MAE maintain Workers' Compensation, Employer's Liability with limits of $1,000,000 bodily injury by accident – each accident, $1,000,000 bodily injury by disease – each employee, $1,000,000 bodily injury by disease – policy limit. Workers Compensation coverage is in accordance with the Workers Compensation Law for the State of Florida.

Professional Liability: MAE maintains Professional Liability with limits of $2,000,000 each claim and $3,000,000 aggregate. A certificate of insurance can be provided at your request evidencing such coverage.

Right-of-Entry – Unless otherwise agreed, Client will furnish right-of-entry on the property for MAE to make the planned borings, surveys, and/or exploration. MAE will take reasonable precautions to minimize damage to the property caused by its equipment and sampling procedures, but the cost of restoration or damage which may result from the planned operations is not included in the contracted amount.

Legal Jurisdiction – The parties agree that any actions brought to enforce any provision of this Agreement shall only be brought in a court of competent jurisdiction located in Jacksonville, Duval County, Florida.

Damage to Existing Man-made Objects – It shall be the responsibility of the Owner or his duly authorized representative to disclose the presence and accurate location of all hidden or obscure man-made objects relative to field tests, sampling, or boring locations. When cautioned, advised or given data in writing that reveal the presence or potential presence of underground or overhead obstructions, such as utilities, MAE will give special instructions to its field personnel. As evidenced by your acceptance of this proposal, Client agrees to indemnify and save harmless MAE from all claims, suits, losses, personal injuries, death and property liability resulting from unusual subsurface conditions or damages to subsurface structures, owned by Client or third parties, occurring in the performance of the proposed work, whose presence and exact locations were not revealed to MAE in writing, and to reimburse MAE for expenses in connection with any such claims or suits, including reasonable attorney's fees.

Limitation of Responsibility – Client hereby agrees to the fullest extent permitted by law the Consultant's total liability to Client for any and all injuries, claims, losses, expenses or damages whatsoever arising out of or in any way relating to the project, the site, or this Agreement from any cause or causes including but not limited to the Consultant's negligence, errors, omissions, strict liability, breach of contract, or breach of warranty shall not exceed the greater of the total amount paid by the Client for the services of the Consultant under this contract or $50,000.00, whichever is greater.

Client and the Consultant agree that to the fullest extent permitted by law the Consultant shall not be liable to Client for any special, indirect or consequential damages whatsoever, whether caused by the Consultant's negligence, errors, omissions, strict liability, breach of contract, breach of warranty or other cause or causes whatsoever.

To the fullest extent permitted by law, Client agrees to defend, indemnify, and hold Consultant, its agents, subcontractors, and employees harmless from and against any and all claims, defense costs, including attorneys' fees, damages, and other liabilities arising out of or in any way related to Consultant's reports or recommendations concerning this Agreement, Consultant's presence on the project property, or the presence, release, or threatened release of asbestos, hazardous substances, or pollutants on or from the project property; **provided that** Client shall not indemnify Consultant against liability for damages to the extent caused by the negligence or intentional misconduct of Consultant, its agents, subcontractors, or employees.

Use of Documents – All documents, including but not limited to drawings, specifications, reports, and data or programs stored electronically, prepared by the Consultant are related exclusively to the services described in this Agreement, and may be used only if the Client has satisfied all of its obligations under this Agreement. They are not intended or represented to be suitable for use, partial use or reuse by the Client or others on extensions of this project or on any other project. Any modifications made by the Client to any of the Consultant's documents, or any use, partial use or reuse of the documents without written authorization or adaptation by the Consultant will be at the Client's sole risk and without liability to the Consultant, and the Client shall indemnify, defend and hold the Consultant harmless from all claims, damages, losses and expenses, including but not limited to attorneys' fees, resulting therefrom. The Consultant's electronic files and source code developed in the development of application code remain the property of the Consultant and shall be provided to the Client only if expressly provided for in this Agreement. Any electronic files not containing an electronic seal are provided only for the convenience of the Client, and use of them is at the Client's sole risk. In the case of any defects in the electronic files or any discrepancies between them and the hardcopy of the documents prepared by the Consultant, the hardcopy shall govern. Because data stored in electronic media format can deteriorate or be modified without the Consultant's authorization, the Client has 60 days to perform acceptance tests, after which it shall be deemed to have accepted the data.

PURSUANT TO FLORIDA STATUTES SECTION 558.0035 (2013) AN INDIVIDUAL EMPLOYEE OR AGENT OF MAE MAY NOT BE HELD INDIVIDUALLY LIABLE FOR NEGLIGENCE.

Sampling or Testing Location – Unless specifically stated to the contrary, the fees included in this proposal do not include costs associated with professional land surveying of the site or the accurate horizontal and vertical locations of tests. Field tests or boring locations described in our report or shown on our sketches are based on specific information furnished to us by others or estimates made in the field by our techniclans. Such dimensions, depths or elevations should be considered as approximations unless otherwise stated in the report.

Sample Handling and Retention – Generally test samples or specimens are consumed and/or substantially altered during the conduct of tests and MAE, at its sole discretion, will dispose (subject to the following) of any remaining residue immediately upon completion of test unless required in writing by the Client to store or otherwise handle the samples. (a) NON HAZARDOUS SAMPLES: At Client's written request, MAE will store test samples and specimens, or the residue thereof for ninety (90) days after submission of MAE's report to Client free of storage charges. After the initial 90 days and upon written request, MAE will store test specimens or samples for a mutually acceptable storage charge and period of time. (b) HAZARDOUS OR POTENTIALLY HAZARDOUS SAMPLES: In the event that samples contain substances or constituents hazardous or detrimental to human health, safety or the environment as defined by federal, state or local statutes, regulations, or ordinances ("Hazardous Substances" and "Hazardous Constituents", respectively), MAE will, after completion of testing and at Client's expense: (i) return such samples to Client; (ii) using a manifest signed by Client as generator, will have such samples transported to a location selected by Client for final disposal. Client agrees to pay all costs associated with the storage, transport, and disposal of such samples. Client recognizes and agrees that MAE is acting as a Bailee and at no time does MAE assume title of said waste.

Discovery of Unanticipated Hazardous Materials – Hazardous materials or certain types of hazardous materials may exist at a site where there is no reason to believe they could or should be present. MAE and Client agree that the discovery of unanticipated hazardous materials constitutes a changed condition mandating a renegotiation of the scope of work or termination of services. MAE and Client also agree that the discovery of unanticipated hazardous materials may make it necessary for MAE to take immediate measures to protect health and safety. MAE agrees to notify Client as soon as practicable should unanticipated hazardous materials or suspected hazardous materials be encountered. Client encourages MAE to take any and all measures that, in MAE's professional opinion, are justified to preserve and protect the health and safety of MAE's personnel and the public. Client agrees to compensate MAE for the additional cost of working to protect employees' and the public's health and safety. In addition, Client waives any claim against MAE, and agrees to defend, indemnify and save MAE harmless from any claim or liability for injury or loss arising from MAE's discovery of unanticipated hazardous materials or suspected hazardous materials. Client also agrees to compensate MAE for any time spent and expenses incurred by MAE in defense of any such claim, with such compensation to be based upon MAE's prevailing fee schedule and expense reimbursement policy relative to recovery of direct project costs.

Force Majeure – MAE shall not be held responsible for any delay or failure in performance of any part of this Agreement to the extent such delay or failure is caused by fire, flood, explosion, war, strike, embargo, government requirement, civil or military authority, acts of God, act or omission of subcontractors, carriers, client or other similar causes beyond its control.

EXHIBIT D

SES Energy Services LLC

7 September 2023

Ms. Rebecca Bray
GAI Consultants
12574 Flagler Center Blvd., Suite 202
Jacksonville, FL 32258

RE: Fairgrounds/Normandy Turn Lanes
Duval County, Florida
Proposal/Contract for Services
SES Proposal No. P240275

Dear Ms. Bray:

SES Energy Services LLC is pleased to provide you with this proposal/contract to delineate wetlands and assist with environmental resource permitting for new turn lanes on Normandy Boulevard at the proposed relocated Fairgrounds site in Duval County, Florida.

We look forward to working with you on this project. Please feel free to contact me with any questions.

Sincerely,

SES ENERGY SERVICES LLC

Jonathan Summerfield, PWS
Senior Project Manager

Attachment: Proposal/Contract for Services
General Terms and Conditions

JDS/P240275_COJNormandyTurnLanes

SES Energy Services LLC
3550 St. Johns Bluff Road South, Jacksonville, Florida 32224
T: (904) 285-1397, F: (904) 285-1929
Email: mail@ersenvironmental.com

PROPOSAL/CONTRACT
Prepared for:
Ms. Rebecca Bray
GAI Consultants
12574 Flagler Center Blvd., Suite 202
Jacksonville, FL 32258
7 September 2023

RE: Fairgrounds/Normandy Turn Lanes
Duval County, Florida
Proposal/Contract for Services
SES Proposal No. P240275

Scope of Services

Task 1 – Wetland Delineation. SES Energy Services LLC (SES) will delineate the limits of jurisdictional wetlands associated with the project pursuant to the current regulations and guidance of the St. Johns River Water Management District (SJRWMD), Florida Department of Environmental Protection (FDEP), and U.S. Army Corps of Engineers (USACE). Wetland limits will be delineated in the field with sequentially numbered survey tape, and the approximate position of each point will be located with a handheld Global Positioning System (GPS) device. Upon completion of the delineation, SES will provide a flagging map indicating the approximate limits of the jurisdictional wetlands, the approximate acreage, and the alpha-numeric designations of the beginning and ending flag of each wetland line established.

Task 2 – State Environmental Resource Permitting, Chapter 62-330, F.A.C. SES will assist the project engineer in preparing all necessary documentation and graphics required for submittal of a permit application to SJRWMD. This task includes assisting the client with permit application preparation, mitigation plan preparation, conservation easement and mitigation bank coordination (as needed), responses to agency Requests for Additional Information, and SES attendance at meetings with the regulatory agency as needed. SES will require final plans in AutoCAD format prior to initiating permit application preparation.

Task 3 – Federal Clean Water Act Section 404 Permitting. If impacts to jurisdictional waters of the United States are proposed, SES will prepare all necessary documentation and graphics required for submittal of a federal Clean Water Act Section 404 permit application. This task includes assisting the client with permit application preparation, mitigation plan preparation, conservation easement and mitigation bank coordination (as needed), responses to agency Requests for Additional Information, and SES attendance at meetings with the regulatory agency as needed. SES will require final plans in AutoCAD format prior to initiating permit application preparation.

Not to Exceed.....$17,461.68*

***Please see attached City of Jacksonville Rate Sheet.**

If this proposal, which incorporates the attached General Terms and Conditions by reference, meets with your approval, please sign below and return a copy to our office as your authorization to proceed. We look forward to working with you.

TERMS ACCEPTED:

For:	_____	For:	**SES Energy Services LLC**
Date:	_____	Date:	7 September 2023
By:	_____ (Signature)	By:	_____ (Signature)
	_____ (Printed/Typed)		Jonathan Summerfield (Printed/Typed)

JDS/P240275_COJNormandyTurnLanes

FEE SUMMARY

EXHIBIT D

PART I - GENERAL	
1. Project Fairgrounds/Normandy Turn Lanes	**2. Proposal Number** P240275
3. Name of Consultant SES Energy Services LLC	**4. Date of Proposal** 9/7/2023

PART II - LABOR RELATED COSTS				
5. Direct Labor	Hourly Rate	Estimated Hours	Estimated Cost	TOTAL
Project Manager	$87.29	2	$ 174.58	
Chief Environmental Scientist	$65.00	20	$ 1,300.00	
Sr. Environmental Scientist I	$49.92		$ 0.00	
Sr. Environmental Scientist II	$49.33	16	$ 789.28	
Sr. Environmental Scientist III	$47.46		$ 0.00	
Sr. Environmental Scientist	$41.76		$ 0.00	
Environmnetal Scientist I	$36.21	60	$ 2,172.60	
Environmental Scientist II	$28.88	24	$ 693.12	
GIS Specialist	$33.53	24	$ 804.72	
CADD/Comp Technician	$31.77		$ 0.00	
Environmental Technician	$ 19.35		$ 0.00	
TOTAL DIRECT LABOR		146		$ 5,934.30
6. Overhead (Combined Fringe Benefit & Administrative)				
Overhead Rate		167.5 % x Total Direct Labor		$ 9,939.95
7. SUBTOTAL: Labor + Overhead (Items 5 & 6)				$ 15,874.25
8. PROFIT: Labor Related Costs (Item		x	10%	$ 1,587.43

PART III - OTHER COSTS		
9. Miscellaneous Direct Costs		
	$ 0.00	
	$ 0.00	
	$	
	$	
MISCELLANEOUS DIRECT COSTS SUB-TOTAL		$ -
10. SUBCONTRACTS (Cost Plus)		
	$ 0.00	
	$ 0.00	
	$ 0.00	
	$ 0.00	
	$ 0.00	
SUB-CONTRACT SUB-TOTAL		$ -
TOTAL COST PLUS AMOUNT (Items 5, 6, 8, 9 and 10)		$ 17,461.68
11. REIMBURSABLE COSTS (Limiting Amount)		
	$ $0.00	
	$ 0.00	
	$ 0.00	
SUB-TOTAL REIMBURSABLES		$ -

PART IV - SUMMARY	
TOTAL AMOUNT OF CONTRACT (Cost Plus Reimbursables) (Items 5, 6, 8, 9, 10 and 11)	**$ 17,461.68**

General Terms and Conditions

GC-1 DEFINITIONS

A. "Consultant" shall be defined as SES Energy Services LLC.
B. "Client" means the company entering into this Agreement with Consultant.
C. Consultant and Client will be collectively referred to as the "Parties" or sometimes individually as a "Party".
D. "Work" is defined as the services being provided by Consultant to Client, and all duties and responsibilities associated therewith.
E. "Agreement" is defined as the Agreement reached by the Parties for the Work and all documents referenced in and made a part of the Agreement, including, but not limited to Consultant's Cost Estimate and associated proposal.

GC-2 ORDER OF PRECEDENCE

All contract documents and subsequently issued modifications are essential parts of this Agreement, and a requirement occurring in one is binding as though occurring in all. In resolving conflicts, errors, or omissions, the following order of precedence shall be used:
A. Cost Estimate including Scope of Work and Agreement signature page.
B. General Terms and Conditions.
C. Attachments, if any.

GC-3 ENTIRE AGREEMENT

This Agreement embodies the entire agreement between the Parties. The Parties shall not be bound by or liable for any statement, representation, promise, or understanding not set forth herein and nothing contained in proposals, correspondence, discussions, or negotiations prior to the date of this agreement has any effect on this agreement unless specifically incorporated herein. No changes, amendments, or modifications of any of the terms and conditions hereof shall be valid unless reduced to writing and signed by the Parties.

GC-4 RESPONSIBILITIES

Consultant has the responsibility for providing the services described in the cost estimate. The Work is to be performed according to accepted industry standards of care and is to be completed in a timely manner. The Client or a duly authorized representative is responsible for providing the Consultant with a clear understanding of the project nature and scope (the Work). The Client shall supply the Consultant with sufficient and adequate information, including, but not limited to, maps, site plans, reports, surveys and designs, to allow the Consultant to properly complete the Work. The Client shall also communicate changes in the nature and scope of the Work as soon as possible during performance of the Work so that the changes can be incorporated into the work product.

GC-5 HEADINGS

The captions in this Agreement are for convenience only and shall not define or limit any of the terms herein.

GC-6 SEVERABILITY AND INTERPRETATION

In the event that any provision of this Agreement shall be held to be invalid or unenforceable, the remainder of the Agreement shall not be affected and the Agreement shall be construed in all respects as if such invalid or unenforceable provisions were omitted. Each Party acknowledges that it has had a fair and reasonable opportunity to review this Agreement, which shall be construed as though drafted by both parties.

GC-7 WAIVER

The waiver by either Party of any default or breach of this Agreement shall not constitute a waiver of any other or subsequent default or breach.

GC-8 OWNERSHIP OF DOCUMENTS AND DATA

All finished and unfinished documents, data, studies, surveys, drawings, specifications, field notes, maps, models, photographs, videos, project-customized software, project-customized intellectual property, and reports which are first produced by the Consultant in the performance of the Work are, and will remain, the property of Consultant.

GC-9 INDEPENDENT CONTRACTOR

Consultant represents that it is fully experienced, properly qualified, registered, licensed, equipped, organized and financed to perform the Work under this Agreement. Consultant shall perform the Work hereunder in accordance with its own methods subject to compliance with the Agreement. Consultant agrees to be solely responsible for all matters pertaining to its status as a business in the state as well as all federal laws, IRS requirements, and labor laws as they pertain to the Work being performed and paid under this Agreement. Consultant shall act as an independent contractor and not as the agent of Client in performing this Agreement, maintaining complete control over its employees and all of its lower-tier suppliers and subcontractors. Nothing contained in this Agreement or any lower-tier purchase order or Agreement awarded by Consultant shall create any contractual relationship or rights between any lower-tier supplier or subcontractor and Client. Nothing contained in the Agreement shall be construed to imply a joint venture, partnership or principal-agent relationship between the Parties. Neither Party by virtue of this Agreement shall have any right, power, or authority to act or create any obligation, express or implied, on behalf of the other Party.

GC-10 SITE ACCESS AND CONDITIONS AFFECTING THE WORK

The Client will grant or obtain free access to the Work site, if any, for all equipment and personnel necessary for the Consultant to perform the Work set forth in this Agreement. The Client will notify any and all possessors of the project site that Client has granted Consultant free access to the site. The Consultant will take reasonable precautions to minimize damage to the site, but it is understood by the Client that, in the normal course of work, some damage may occur, and the correction of such damage is not part of this Agreement unless so specified in the Cost Estimate and associated Scope of Work. The Client is responsible for the accuracy of locations for all subterranean structures and utilities. The Consultant will take reasonable precautions to avoid known subterranean structures, and the Client waives any claim against Consultant, and agrees to defend, indemnify, and hold Consultant harmless from any claim or liability for injury or loss, including costs of defense, arising from damage done to subterranean structures and utilities not identified or accurately located. In addition, Client agrees to compensate Consultant for any time spent or expenses incurred by Consultant in defense of any such claim with compensation to be based upon Consultant's prevailing fee structure and expense reimbursement policy. Before starting the Work, the Consultant shall review all existing site conditions, drawings if any, specifications if any, and other documents relative to the Work, as well as the information furnished by Client pursuant to the Work. Any errors, inconsistencies or omissions then discovered by the Consultant shall be reported promptly to the Client for clarification. Consultant shall not proceed in conflict areas without specific written direction from the Client.

GC-11 DISCOVERY OF UNANTICIPATED HAZARDOUS MATERIALS

Client warrants that a reasonable effort has been made to inform Consultant of known or suspected hazardous materials on or near the project site. Under the terms of this Agreement, the term "hazardous materials" includes, but is not limited to, hazardous materials (40 CFR 172.01), hazardous wastes (40 CFR 261.2), hazardous substances (40 CFR 300.6), petroleum products, polychlorinated biphenyls, mold and asbestos. Hazardous materials may exist at a site where there is no reason to believe they could or should be present. Consultant and Client agree that the discovery of unanticipated hazardous materials constitutes a changed condition that may mandate a renegotiation of the scope of Work. Consultant and Client agree that the discovery of unanticipated hazardous materials may make it necessary for Consultant to take immediate measures to protect health and safety. Client agrees to compensate Consultant for any equipment decontamination or other costs incident to the discovery of unanticipated hazardous materials. Consultant agrees to notify Client when unanticipated hazardous materials or suspected hazardous materials are

encountered. Client agrees to make all disclosures required by law to the appropriate governing agencies. Client also agrees to hold Consultant harmless for any and all consequences of disclosures made by Consultant which are required by governing law. In the event the project site is not owned by Client, Client recognizes that it is the Client s responsibility to inform the property owner of the discovery of unanticipated hazardous materials. Notwithstanding any other provision of this Agreement, Client waives any claim against Consultant, its agents, servants, employees, representatives, officers, directors, sureties, attorneys, owners, affiliates, heirs, assigns, suppliers and subcontractors, and to the maximum extent permitted by law, agrees to defend, indemnify, and save Consultant harmless from any claim, liability, and/or defense costs for injury or loss arising from Consultant's discovery of unanticipated hazardous materials including any costs created by delay of the project and any cost associated with possible reduction of the property's value. Client will be responsible for ultimate disposal of any samples secured by the Consultant which are found to be contaminated.

GC-12 CONSIDERATION AND COMPENSATION

Consultant shall be paid in accordance with the rates and/or prices established in the Agreement. Unless amended in writing and signed by the Parties, Consultant is not obligated to incur expenses and cost in excess of that amount.

GC-13 BILLING AND PAYMENT

Consultant will submit invoices to Client monthly or upon the completion of the Work. Invoices will reflect charges for different personnel and expense classifications or will indicate a lump sum charge for services rendered in accordance with the Cost Estimate. Payment is due thirty (30) days after presentation of invoice and is past due 31 days from invoice date. Client agrees to pay a finance charge of one and one-half percent (1.5%) per month, or the maximum rate allowed by law, on past due accounts. If the Consultant incurs any expenses to collect overdue billings on invoices, the sums paid by the Consultant for reasonable attorney's fees, court costs, Consultant's time, Consultant's expenses, and interest will be due and owing by the Client.

GC-14 WRITTEN NOTICE

The addresses provided for the Parties in the Agreement shall be the addresses for all notices and correspondence in all matters dealing with this Agreement. Except as otherwise expressly provided herein, all written notices required to be delivered by the Parties pursuant hereto shall be deemed so delivered at the time delivered by hand one business day after confirmed transmission by facsimile or other electronic system (with confirmation copy sent by regular U.S. Mail or overnight delivery service) or 3 business days after placement in the U S. Mail by registered or certified mail, return receipt requested, postage prepaid, or to such other address as such party may designate by 10 days' advance written notice to the other Party.

GC-15 FORCE MAJEURE

Neither Party shall be liable nor be able to terminate this Agreement for any failure to perform hereunder where such failure is proximately caused by a Force Majeure Occurrence, which is defined as an occurrence beyond the control and without the fault or negligence of the Party affected and which by exercise of reasonable diligence the Party is unable to prevent or protect against. Without limiting the generality of the foregoing, Force Majeure Occurrences shall include: acts of nature (including fire, flood, earthquake, storm, hurricane or other natural disaster), war, invasion, terrorist acts, government sanction or embargo, labor disputes of third parties to this Agreement, or the prolonged failure of electricity or other vital utility service. Any Party asserting Force Majeure as an excuse to performance shall have the burden of proving proximate cause, that reasonable steps were taken to minimize the delay and damages caused by events when known, and that the other Party was timely notified of the likelihood or actual occurrence which is claimed as grounds for a defense under this clause

GC-16 INSURANCE

For its sole protection, Consultant shall carry and maintain in force and effect during the entire term of this Agreement the following required insurance policies: Commercial General Liability, Worker's Compensation and Employer's Liability, Business Auto Liability, and Professional Liability. Evidence of Insurance referencing these policies will be provided upon request. No additional insurance terms or provisions will be provided

GC-17 LIMITATION OF LIABILITY

Client agrees that the Consultant's liability for on account of any error, omission, or other professional negligence will be limited to a sum not to exceed Fifty Thousand ($50,000.00) Dollars, or Consultant's fee, whichever is greater. If Client prefers to have higher limits on professional liability, Consultant agrees to increase the limits up to a maximum of One Million ($1,000,000.00) Dollars upon Client's written request, provided that Client agrees to pay an additional consideration of four percent (4%) of the total fee for the project or Five Hundred ($500.00) Dollars, whichever is greater. The additional charge for the higher liability limits is because of the greater risk assumed and is not strictly a charge for additional professional liability insurance.

GC-18 INDEMNITY

Subject to the limits established in the Limitation of Liability clause herein, each Party shall defend, save the other together with their agents, servants, employees, representatives, officers, directors, sureties, attorneys, owners, affiliates, heirs, assigns, suppliers and subcontractors harmless from and against and shall indemnify the other for any liability, loss, costs, expenses, or damages to the extent of its negligent acts or omissions in performing under this Agreement. To the extent of its negligence, the indemnifying Party shall defend said action at its own expense and shall pay and discharge any judgment that may be rendered in any such action. If such indemnifying Party fails or neglects to so defend, the Party sued may defend the same and any expenses, including reasonable attorneys' fees, which it may pay or incur in defending said action and the amount of any judgment which it may be required to pay shall be promptly reimbursed upon demand. Such undertaking of defense shall not be deemed an admission of liability, an agreement to assume liability, or a waiver of any right or remedy which the undertaking Party may have. In the event of any indemnified claim against Consultant by Client or any third person associated with Client, Consultant reserves the right to choose legal counsel and direct the defense of such claim at Client's sole cost and expense if the Client is notified of the claim, the claim is the result of Client's efforts, and the Client either fails or neglects to defend the claim. Each Party shall protect, defend, indemnify and hold harmless the other Party hereto from and against any and all damages and expenses arising out of a claim of actual or alleged infringement of patent, copyright, trademark or trade name asserted in connection with the use of equipment, tools, or methods of operation furnished pursuant to this Agreement. In no event, whether on warranty, contract, or negligence, shall either Party be liable to the other for incidental, indirect, or consequential damages, including but not limited to, loss of profits, loss of revenue, loss of use of equipment or facilities, costs of capital, cost of substitute or underutilization of equipment, facilities or labor, downtime costs, or claims of customers resulting from the performance or nonperformance of obligations of this Agreement.

GC-19 STANDARD OF CARE

Services performed by the Consultant under this Agreement will be conducted in a manner consistent with the level of care and skill ordinarily exercised by members of the Consultant's profession practicing contemporaneously under similar conditions in the locality of the Work. No other warranty, expressed or implied, is made. The Client recognizes that site conditions may change from those observed at the site at the time Work is performed. Data, interpretations, and recommendations by the Consultant will be based solely on information available to the Consultant at the time of the performance of the Work. The Consultant is responsible for those data, interpretations, and recommendations, but will not be responsible for other parties' interpretations or use of the information provided.

GC-20 PROPRIETARY AND CONFIDENTIAL INFORMATION

Information which is exchanged under or in connection with this Agreement may include proprietary and confidential information of the disclosing Party. The receiving Party shall not disclose such confidential information to others or use it for any purposes other than this Agreement without prior written consent from disclosing Party. All such proprietary information shall be clearly marked as "Proprietary." In the event proprietary information is orally disclosed, it should then be

reduced to writing and marked "Proprietary" within ten (10) days thereafter. The receiving Party shall use at least the same degree of care to prevent disclosure to any third party of misuse of the proprietary information as it employs with respect to its own proprietary information of like importance and use. Proprietary information shall not include, and this paragraph shall not apply to information which: (a) was in the receiving Party's possession or was known to the receiving Party prior to its receipt from the disclosing Party; (b) is or becomes public knowledge without fault of the receiving Party; (c) is acquired by the receiving Party from a third party with good legal title thereto and without binder of secrecy; (d) is independently developed by the receiving Party; (e) is used or disclosed with the prior written approval of the disclosing Party; or (f) is disclosed pursuant to the requirement or request of U.S. or other governmental agency. If such a requirement or request is presented by the U.S. or other governmental agency, Consultant will immediately notify Client and will give Client a reasonable opportunity to contest or dispute such disclosure if they deem necessary. The obligations stated under this clause shall survive the expiration or termination of this Agreement and any extension thereof for a period of two (2) years. All tangible forms and copies of the proprietary information, such as written documentation, delivered by either Party to the other pursuant to this Agreement shall be and remain the property of the issuing Party, and all such tangible information shall be properly returned to said Party or destroyed upon its written request. Any work papers, memoranda or other writings prepared by the receiving Party incorporating any or all of the information shall also be subject to the provisions of this Agreement.

GC-21 RESOLUTION OF DISPUTES

The Parties agree to attempt to resolve any dispute by direct negotiations and in good faith. If these negotiations prove unsuccessful, the following rules shall apply: The Parties agree that this Agreement, and the performance or breach thereof, shall be governed and construed in accordance with the substantive and procedural laws of the State of Florida, United States of America. Any dispute, controversy, claim or difference arising out of or relating to, or resulting from this Agreement, its application or interpretation, or a breach thereof, which cannot be settled amicably by the Parties, shall be resolved definitively and exclusively by arbitration under the Rules of Procedure of the American Arbitration Association (the "Rules") then prevailing, which arbitration shall be held in Jacksonville, Florida. Arbitration shall be by a single arbitrator within thirty (30) calendar days after demand for arbitration, the arbitrator being chosen in accordance with the Rules. It is agreed that all documentary submissions, presentations and proceedings shall be in the English language. The decision of the arbitrator shall be final and binding on the parties, and judgment upon any award rendered may be entered in any court having jurisdiction thereof. Any time which elapses in attempting to resolve the dispute through either or both negotiation or arbitration shall extend day-for-day any applicable statute(s) of repose or limitation of actions. The Parties agree that this arbitration obligation shall survive the termination of this Agreement, whether by default or convenience. Notwithstanding anything to the contrary, (a) Consultant reserves the right to pursue and obtain injunctive or equitable relief from a court of law; (b) if a lawsuit or arbitration is brought against Consultant in a court of law and such claims involve, directly or indirectly, Client's work, Consultant reserves the right to join Client in such arbitration or lawsuit, and (c) if any claims by Client involve, directly or indirectly, the work or obligations of other persons, Consultant reserves the right to join such other persons to its arbitration or litigation with Client.

GC-22 ASSIGNMENT

Neither the Client nor the Consultant may delegate, assign, sublet or transfer their duties or interest in this Agreement without the written consent of the other Party. However, Consultant may assign rights to be paid amounts due to a financing institution if Client is promptly furnished a written notice and a signed copy of such assignment. If assigned, all covenants, stipulations and promises of this Agreement shall be binding upon and inure to the benefit of the Parties hereto and their respective successors, assigns and legal representatives.

GC-23 TAXES

Unless otherwise stated in this Agreement, Client shall pay all taxes, levies, duties, and assessments of every nature due in connection with the Work under this Agreement required by law and hereby indemnifies and holds harmless Consultant from any liability on account of any and all such taxes, levies, duties, assessments, and deductions. Unless otherwise provided herein, the price of the Work includes all applicable federal, state and local taxes.

GC-24 COMPLIANCE WITH LAWS

The Parties will comply with applicable laws, statutes, ordinances, orders, rules and regulations of all governmental authorities having jurisdiction over the Work to be performed, and will have all licenses, permits, and other necessary documents for the performance of the Work.

GC-25 CHANGES

This Agreement may not be and shall not be deemed or construed to have been modified, amended, rescinded, canceled or waived in whole or part, except by written instruments signed by the Parties hereto. When, in the Consultant's opinion, any direction from Client or any other discovery or occurrence, constitutes a change to the Agreement terms, Consultant shall notify the Client immediately in writing to obtain a written instrument implementing the change. Upon request from Client, Consultant may be required at a later date to submit a formal written request including all necessary supporting documentation to justify the change. Notice of request for change must be given as soon as practical, and at all times must be given prior to any action being taken by Consultant on the changed Work or activity. A modification constitutes complete agreement between the Parties regarding any changes made to the Agreement.

GC-26 SUSPENSION

The Client may for any reason direct the Consultant to suspend performance of any part or all of the Agreement for an indefinite period of time. If any such suspension significantly delays progress or causes the Consultant additional direct expenses in the performance of the Agreement, not due to the fault or negligence of the Consultant, the compensation to the Consultant shall be adjusted by a formal modification to the Agreement and the time of performance shall be extended by the actual duration of the suspension.

GC-27 TERMINATION

This Agreement may be terminated by either Party upon seven (7) days' written notice in the event of substantial failure by the other Party to perform in accordance with the terms hereof. Such termination shall not be effective if that substantial failure has been remedied before expiration of the period specified in the written notice. In the event of termination, Consultant shall be paid for services performed to the termination notice plus reasonable termination expenses.

In the event of termination, or suspension of more than three months prior to completion of all reports contemplated by this Agreement, Consultant may complete such analyses and records as necessary to complete the project files and may also complete a report on the service performed to the date of notice of termination or suspension. The expense of termination of suspension shall include all direct costs incurred by Consultant in completing, compiling and transmitting such analyses, records and reports.

GC-28 RETENTION OF RECORDS

Consultant will retain all pertinent records relating to the services performed for a period of five (5) years following completion of the Work, during which period the records will be made available to the Client at all reasonable times.

GC-29 SUCCESSORS

All covenants, stipulations and promises in this Agreement shall be binding upon and inure to the benefit of the Parties hereto and their respective successors, assigns and legal representatives. Neither Party shall have the right to assign or otherwise transfer its rights or obligations under this Agreement except with the written consent of the other Party, provided, however, that a successor in interest by merger, by operation of law, assignment, purchase, or otherwise of the entire business of either Party, shall acquire all interest of such Party hereunder. Prohibited assignments shall be void at the option of the non-assigning Party.

EXHIBIT D

COJ DB – Fairgrounds Relocation Project

Phase 2 – 30% Construction Plans

JACKSONVILLE FAIRGROUNDS PHASE 2

13611 NORMANDY BLVD
Jacksonville, FL 32221
FOR
CITY OF JACKSONVILLE
214 N HOGAN ST
Jacksonville, FL 32202

CITY OF JACKSONVILLE NOTES

GENERAL

UTILITY WORK

WORK WITHIN THE RIGHT-OF-WAY

STORMWATER

FIRE MARSHALL

LANDSCAPE

TRAFFIC ENGINEERING

TRAFFIC SIGNS

DESCRIPTION	DATE

Prepared By:

gai consultants
EB 8951
12574 FLAGLER CENTER BLVD.
SUITE 202
JACKSONVILLE, FLORIDA 32258
PHONE: (904) 383-1110

VICINITY MAP — PROJECT LOCATION

Sheet Index	
C000	Cover Sheet
C001	General Notes
C002	Pre-Development Plan
C003	Post-Development Plan
C004	Demolition Plan
C100-C106	Master Site Plan
C200-C203	Grading Plan
C300-C306	Utility Plan
C400-C403	Plans & Profile
C500-C509	Detail Sheets
C600	Erosion Control Plan
C700-C702	SWPPP

LANDSCAPE & HARDSCAPE:
RUTH PERRY
GAI CONSULTANTS INC.
618 E. SOUTH STREET
ORLANDO, FLORIDA 32801
PHONE 321-318-3058

GEOTECH:
P. RODNEY MANN, P.E.
MANN & ASSOCIATES GEOTECHNICAL ENG
GEOTECHNICAL CONSTRUCTION MATERIALS TESTING
8836 WESTERN WAY, SUITE 12
JACKSONVILLE, FLORIDA 32256
PHONE 904-518-0990
FAX 904-519-0992

SURVEYOR:
JOE LEE
GAI CONSULTANTS INC.
EB 8951
12574 FLAGLER CENTER BLVD
JACKSONVILLE, FLORIDA 32258
PHONE 904-383-1110

PLAN APPROVAL

Date — Development Area in Water Zone

Date — Kathleen Ortiz (Approved)

Plan approval is valid for five years after the initial approval date. Revisions made after the initial approval date do not extend the five-year time frame.

PLAN APPROVAL IS SUBJECT TO THE FOLLOWING NOTES AND CONDITIONS

ALL WATER AND SEWER UTILITY CONSTRUCTION SHALL BE ACCOMPLISHED IN ACCORDANCE WITH JEA PLANS BEARING THE JEA APPROVAL STAMP AND BE IN POSSESSION OF THE CONTRACTOR AT ALL TIMES

GENERAL PROJECT INFORMATION

GENERAL	
City Development Number	[illegible]
Concurrency Application Number	[illegible]
Property Appraiser Number (PIE #)	[illegible]
Zoning Designation	PUD
Zoning Application(s) if any	-
PUD Ordinance Number	2021-[illegible]
PBMP - Community - Parcel	[illegible]
Base Flood Elev. (Show in Plans)	[illegible]
Base Flood Elev. (Show in Plans)	[illegible]
Vertical Datum Used for Project	NAVD 88
JEA Availability Number	2023-[illegible]
SUBDIVISION	
PID Number	N/A
City or Private Inspection	N/A
Public or Private Roads	N/A
Subdivision (Y/N ?) Dwl Provided?	N/A
NON-SUBDIVISION	
North American Industry Classification System (NAICS)	[illegible]
Impervious Area (Sq. Ft.)	[illegible]

JEA AVAILABILITY NUMBER: 2023-2098
PLANS DESIGNED UNDER 2022 JEA STANDARD DETAILS

60% SUBMITTAL

REVISIONS

SCALE AS SHOWN
DATE
DRAWN
CHECKED
APPROVED

COVER SHEET

JACKSONVILLE FAIRGROUNDS PHASE 2 60% SUBMITTAL

gai consultants

PROJECT NO./DASH NO

SHEET C000

GENERAL NOTES:

1. ALL WORK DONE FROM IN AND PUBLIC SHALL BE ACCOMPLISHED IN ACCORDANCE WITH THE PLANS SPECIFICATIONS AND GENERAL NOTES HEREIN AND/OR OTHERWISE REQUIRED BY THE LATEST EDITION OF APPLICABLE FEDERAL, STATE, LOCAL AND MUNICIPAL CODES / ORDINANCES / REGULATIONS / STANDARDS AND SPECIFICATIONS. ALL MATERIAL CONSTRUCTION SHALL BE TESTED IN ACCORDANCE WITH THE LATEST APPLICABLE REGULATORY STANDARDS AND SPECIFICATIONS. IN THE EVENT OF A CONFLICT BETWEEN THE REQUIREMENTS THE MORE STRINGENT SHALL APPLY AS DETERMINED BY THE ENGINEER.
2. ALL DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED
3. PROPOSED SPOT ELEVATIONS REFER TO FINISHED GRADE
4. EXISTING CONDITIONS SHOWN HERE: TOPOGRAPHY, ELEVATIONS AND DRAINAGE INFORMATION HAVE BEEN PROVIDED IN A SURVEY PREPARED BY OTHERS, THE SURVEYOR OF RECORD IS LISTED ON THE COVER SHEET.
5. PROTECT ANY SURVEY MONUMENTS LOCATED WITHIN THE LIMITS OF CONSTRUCTION. IF DAMAGED OR DISTURBED NOTIFY THE FOLLOWING PRIOR TO CONSTRUCTION:
   DIVISION OF STATE LAND
   DEPARTMENT OF ENVIRONMENTAL PROTECTION
   BUREAU OF SURVEYING AND MAPPING
   2051 ORANGEBLOSSOM BOULEVARD
   TALLAHASSEE, FLORIDA 32399-3000
6. THE LOCATION OF THE EXISTING UTILITIES AND DRAINAGE STRUCTURES SHOWN ON THESE PLANS ARE BASED ON AVAILABLE INFORMATION. PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL VERIFY ALL SITE CONDITIONS FOR VERIFICATION AND RELOCATION OF EXISTING UTILITIES WITH THE OWNERS OF CONSTRUCTION. CONTRACTOR IS NOT ONLY RESPONSIBLE FOR DAMAGE TO EXISTING UTILITIES, CONTRACTOR IS RESPONSIBLE FOR MAINTAINING UTILITIES. NOTIFY OWNERS CONSTRUCTION UNTIL ALL OF OTHERWISE. CONTRACTOR IS RESPONSIBLE FOR ALL UTILITIES PROTECTION OR DAMAGES WHILE ON OTHERWISE NOTED.
7. CONTRACTOR SHALL VERIFY LOCATIONS OF EXISTING STRUCTURES, SUPERIMPOSED UTILITIES AND PROPERTY LINES, AND CONFIRM ALL PROPOSED ELEVATIONS AND ELEVATIONS PRIOR TO PROCEEDING WITH OR COMMENCING ANY CONSTRUCTION OR ORDERING MATERIALS.
8. CONTRACTOR SHALL COORDINATE CONSTRUCTION WITH ALL OTHER FIELD SITE CONSTRUCTION AND/OR ADJACENT ON-SITE CONSTRUCTION.
9. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DOCUMENT CONDITIONS OF EXISTING INFRASTRUCTURE, BOTH PUBLIC AND PRIVATE. THE OWNER NOTICE SHALL REPLACE OR REPAIR ANY DAMAGE TO EXISTING IMPROVEMENTS TO THE PRE-CONSTRUCTION CONDITIONS BETTER.
10. NO CONSTRUCTION WILL BE ALLOWED IN THE JURISDICTIONAL AREAS OUTSIDE OF PRESERVATION AREAS UNLESS INDICATED ON THESE CONSTRUCTION PLANS. CONTRACTOR ASSUMES SOLE RESPONSIBILITY OF UNAUTHORIZED CONSTRUCTIONS IMPACTS.
11. CONTRACTOR SHALL COORDINATE WITH LOCAL UTILITY LOCATION SERVICE AND UTILITY COMPANIES TO LOCATE AND MARK UNDERGROUND UTILITIES AT LEAST 24 TO 48 HOURS PRIOR TO DIGGING.
12. TREE PROTECTION SHALL BE IN ACCORDANCE WITH THE LANDSCAPE PLANS AND DETAILS
13. CONTRACTOR IS RESPONSIBLE FOR ESTABLISHING GRADE AND PLANTING ON ALL DISTURBED AREAS IN ACCORDANCE WITH THE LANDSCAPE PLANS AS SOON AS POSSIBLE TO PREVENT EROSION. IF NOT SPECIFICALLY NOTED IN THE PLANS, ALL DISTURBED AREAS SHALL BE STABILIZED WITH SOD OR OTHER ALTERNATIVE GROUND COVERAGE.
14. THE CONTRACTOR'S SOIL EROSION AND SEDIMENT CONTROL MEASURES AND MONITORING AS SPECIFIED IN THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP), EROSION CONTROL SHALL BE PROVIDED IN ACCORDANCE WITH THE NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (NPDES) REQUIREMENTS FOR LAND DISTURBANCE AND AS SPECIFIED AND DETAILED ON THE EROSION CONTROL PLAN AND DETAILS.
15. WHERE FDOT STANDARDS AND SPECIFICATIONS ARE REFERENCED REFER TO THE F.D.O.T. STANDARD AND TRAFFIC DESIGN STANDARDS, LATEST EDITION.
16. ALL TRAFFIC SIGNS SHALL BE IN ACCORDANCE WITH THE U.S. DEPARTMENT OF TRANSPORTATION MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), LATEST EDITION.
17. ALL PAVEMENT MARKINGS SHALL BE PAINT.
18. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE JOB SITE PRIOR TO BEGINNING WORK. THE CONTRACTOR SHALL FAMILIARIZE THEMSELVES WITH THE NATURE AND EXTENT OF THE PROPOSED WORK AND LOCAL CONDITIONS, EITHER WITH NOT OR SUB-SURFACE, WHICH MAY AFFECT THE WORK TO BE PERFORMED AND THE FURNISHING OF LABOR AND MATERIALS REQUIRED. FAILURE TO DO SO WILL NOT RELIEVE THE CONTRACTOR OF COMPLETE PERFORMANCE UNDER THIS CONTRACT.
19. SHOULD THE SURFACE OR SUBSURFACE CONDITIONS FOUND VARY FROM WHAT IS SHOWN ON THESE PLANS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY IN WRITING.
20. DO NOT SCALE THESE DRAWINGS. USE DIMENSIONS ONLY.
21. THE SPECIFIED LOCATIONS OF GRAVITY STORM AND SANITARY SEWER PIPES ARE APPROXIMATE. THE CONTRACTOR SHALL INSTALL SUCH PIPES AS REQUIRED TO MEET STRUCTURE LOCATIONS AND POND SIZE IN SITE.
22. THE CONTRACTOR'S BID SHALL INCLUDE ANY AND ALL NECESSARY MEANS AND METHODS TO CONTROL SURFACE AND GROUND WATER DURING CONSTRUCTION, INCLUDING BUT NOT LIMITED TO SURFACE DRAINAGE DIVERSIONS, ENCLOSED WATER AND PUMPS, WELL POINTING ETC. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING ACTION, AND GAIN A BIDDING TO ENGINEER FOR AND THE WATER CONTROL NECESSARY TO MEET MOISTURE AND DENSITY REQUIREMENTS FOR THE WORK OR EXPOSED SOIL.
23. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING CLEARING AND GRUBBING PERMITS AND ALL OTHER PERMITS NEEDED TO MAKE FOR CONSTRUCTION. CONTRACTOR SHALL OBTAIN THE PRE-CONSTRUCTION SITE CONSTRUCTION PERMIT, LOCAL CITY OR COUNTY CONSTRUCTION PLAN APPROVAL, CONSTRUCTION PLAN APPROVAL OF THE POTABLE WATER AND SANITARY SEWER SYSTEMS AND FIRST DISTRICT DRAINAGE AND UTILITY CONNECTION PERMITTING.
24. CONTRACTOR SHALL COMPLY WITH ALL POND CONDITIONS DURING CONSTRUCTION.
25. ALL WORK SHALL BE OPEN AND SUBJECT TO INSPECTION BY AUTHORIZED PERSONNEL OF LOCAL, STATE AND FEDERAL REGULATORY AGENCIES, UTILITY COMPANIES, ENGINEER AND THE OWNER.
26. SHOP DRAWINGS SHALL BE REQUIRED FOR ALL SANITARY, STORM & POTABLE WATER STRUCTURES AND MATERIALS. DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW & APPROVAL PRIOR TO THE APPLICABLE REGULATORY AGENCY FOR APPROVAL PRIOR TO CONSTRUCTION OR INSTALLATION.
27. AFTER COMPLETION OF CONSTRUCTION, THE CONTRACTOR SHALL PERFORM THE CLEANUP OPERATIONS FOR REMOVAL OF ALL TRASH, DEBRIS, EXCESS MATERIAL AND EQUIPMENT. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PREPARE THE PROJECT SITE IN ACCORDANCE WITH GOOD ORDER AT THE TIME OF FINAL ACCEPTANCE.
28. CONTRACTOR SHALL PROVIDE STORAGE FOR ALL MATERIALS AND EQUIPMENT MATERIALS AND SUPPLIES SHALL BE PLACED IN A MANNER TO PREVENT DISCOLORATION OR DEGRADATION OF PRODUCTS OR PROPERTY DAMAGE.
29. A PRE-CONSTRUCTION MEETING IS REQUIRED AND SHALL BE SCHEDULED WITH THE OWNER AND LOCAL REGULATORY AGENCIES AT LEAST 48 HOURS IN ADVANCE OF SITE CONSTRUCTION.
30. PERSONNEL SAFETY:
   A. ALL PERSONNEL ACTIVITIES SHALL COMPLY WITH THE OSHA SAFETY ACT
   B. TRENCHES SHALL BE BRACED OR SHORED AS REQUIRED BY OSHA REGULATIONS.
   C. METHOD OF TRENCH SHALL BE DURING DIRECTION OF PIPE WILL BE = PIPE/PLUS INCHES 2.0 MINIMUM
   D. ALL WORK SHALL BE IN ACCORDANCE WITH OSHA STANDARD FOR TRENCH WORK AND SUBPART P
   E. THE CONTRACTOR SHALL PROVIDE WRITTEN EVIDENCE OF COMPLIANCE WITH PARAGRAPH
   F. PROVIDE A SEPARATE COST ITEM CONTRACTOR THE COST OF COMPLIANCE OR SEE DOCUMENTATION
   G. TRENCH SAFETY SYSTEM SHALL BE DESIGNED BY THE CONTRACTOR.
31. IF WITHIN THE ARCHAEOLOGICAL SENSITIVITY (HIGH AND MEDIUM-RANKED) AND DISCOVERED IN ANY THE SITE ON THE PROJECT SITE, IMMEDIATE NOTIFICATION SHALL BE PROVIDED TO THE FOLLOWING THE OWNER AND DIVISION OF RECORDS
   THE APPLICABLE WATER MANAGEMENT DISTRICT OFFICE.
   THE BUREAU OF HISTORIC PRESERVATION
   DIVISION OF HISTORIC RESOURCES
   R.A. GRAY BUILDING
   500 S. BRONOUGH ST
   TALLAHASSEE, FL 32399-0250
32. CONTRACTOR SHALL PROVIDE A MINIMUM OF FORTY EIGHT (48) HOURS NOTICE FOR SITE INSPECTION REQUESTS, AND MORE BUT NOT LIMITED TO WORK REQUIRED BY FEDERAL, STATE OR LOCAL REGULATORY AGENCY WORK INSPECTION.

GENERAL NOTES (CONTINUED)

33. CONTRACTOR SHALL PROVIDE A MINIMUM OF FORTY EIGHT (48) HOURS NOTICE FOR SITE INSPECTION REQUESTS, AND MORE BUT NOT LIMITED TO WORK REQUIRED BY FEDERAL, STATE OR LOCAL REGULATORY AGENCY WORK INSPECTION.
34. THE REGULATORY AGENCIES REFERENCED IN THESE GENERAL NOTES ARE ST. JOHNS RIVER WATER MANAGEMENT DISTRICT, THE DEPARTMENT OF ENVIRONMENTAL PROTECTION (DEP) AND THE ST. JOHNS COUNTY PUBLIC WORKS. ALL SITE WORK WITHIN THE DIRECTION OF POTABLE WATER DISTRIBUTION, FIRE HYDRANT DISTRIBUTION SYSTEM AND SANITARY SEWER SYSTEM SHALL COMPLY WITH SAINT JOHNS COUNTY SITE DRAINAGE SPECIFICATIONS, THE POTABLE WATER DISTRIBUTION, FIRE WATER DISTRIBUTION AND SANITARY SEWER SYSTEMS SHALL COMPLY WITH DEP AND ALL STANDARD SPECIFICATIONS.
35. A GEOTECHNICAL REPORT CAN BE OBTAINED FROM THE OWNER.
36. CONSTRUCTION AREAS WITHIN COUNTY RIGHT-OF-WAY AND EASEMENTS SHALL BE TREATED WITH SOD TO PROTECT THE RIGHT OF WAY AGAINST EROSION, AND OR TO WITH COUNTY REGULATORY AND DRAINAGE STANDARDS, (SEE ABOVE).
37. ALL WORK TO COMPLY WITH LOCAL REGULATORY AGENCIES INCLUDING BUT NOT LIMITED TO ST. JOHNS COUNTY, ST. JOHNS RIVER WATER MANAGEMENT DISTRICT, ELC AND PREP.
38. CONTRACTOR SHALL REFER TO GEOTECHNICAL REPORT ISSUED BY METRO, INC. AND ASSOCIATED ENGINEERING DATED OCTOBER 1, 2021 FOR SOIL CONDITION INFORMATION.

AS-BUILT REQUIREMENTS:

1. AS-BUILT DRAWINGS SHALL BE PREPARED IN AUTOCAD FORMAT BY A REGISTERED LAND SURVEYOR, AND SHALL BE IN CONFORMANCE WITH ALL AUTHORITY'S MINIMUM STANDARDS, FOUR SETS OF BOND AND SEALED PRINTS AND 1 SET OF COMPUTER COPY OF THE PROJECT SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO FINAL ACCEPTANCE AND RELEASE OF THE RETAINAGE. IF THE CONTRACTOR'S RESPONSIBILITY TO LOCATE ON THE RECORD DRAWINGS ALL THE FIELD CONSTRUCTION, THE CONTRACTOR SHALL PROVIDE COMPLETE AS-BUILT INFORMATION TO THE ENGINEER IN ACCORDANCE WITH SJRWMD CRITERIA AS BUILT REQUIREMENTS CURRENTLY USED AND THE FOLLOWING REQUIREMENTS:
2. PROVIDE LOCATIONS OF ALL BUILDINGS AND INFRASTRUCTURE. ALL STRUCTURE LOCATIONS WILL BE FROM A MINIMUM OF TWO DIRECTIONS.
3. PROVIDE LOCATIONS OF ALL TRANSMISSION MANAGEMENT VALVES, ASSETS, ALL WELL HEAD, TOP OF BOXES LOCATION AND ELEVATION AND BOTTOM OF SLOPE LOCATION AND ELEVATION, A COMPLETE DETAIL OF THE CONTROL STRUCTURE SHALL BE PROVIDED WHICH WILL INCLUDE INCLUDE LOCATION, WIDTH AND ELEVATION AND CHANGE LOCATION, TOP AND BOTTOM.
4. PROVIDE ELEVATIONS OF ALL PROPOSED PIPES, TOP AND INVERT ELEVATIONS OF ALL SANITARY AND SHOW STORM STRUCTURES AND TOP, SHOW ELEVATIONS OF PIPES, PROPERTY AND BOTTOM ELEVATIONS SHALL BE PROVIDED AS REQUIRED TO ASSIST IN GRADE.
5. LOCATION OF ALL GRADE AND BELOW GROUND UTILITIES SHALL BE PROVIDED AND VERIFIED VIA VIDEO SHOWING PERIMETER GRADE ETC. TOP OF PIPE BOTH ABOVE INVERT AND LENGTH SHALL BE PROVIDED ON THE ASBUILTS.
6. PROVIDE SPECIAL DETAIL DRAWINGS OF LOCATIONS WHERE INSTALLATIONS NOT AS SHOWN ON THE CONTRACT DRAWINGS OR AS REQUIRED FOR CLARITY.
7. PROVIDE LOCATION, ELEVATION AND DESCRIPTION OF BENCHMARKS.

DRAINAGE NOTES:

1. ALL STORM DRAINAGE PIPE SHALL BE HIGH PERFORMANCE PVC CORRUGATED PIPE (HP), AS (CP) OTHERWISE NOTED
2. ALL STORM DRAINAGE INLETS AND PIPE SHALL BE PROTECTED FROM (IN) SAND AND DEBRIS DURING CONSTRUCTION AND ACCUMULATION WITHIN THE STORM DRAINAGE PIPE SYSTEM SHALL BE REMOVED WITHOUT DAMAGE OR REMOVAL OF PLACEMENT OF THE PIPES PRIOR TO THE RELEASE OF RETAINER.
3. PROVIDE SYNTHETIC BALES IN FRONT OF ALL DRAINAGE GRATE INLETS AND PROVIDE AN FIBER MATRIX UNDER THE GRATE OF ALL DRAINAGE INLETS WHICH ARE NOT COVERED, COVER FRONT OF THE DRAINAGE STRUCTURE, UNDER-SIDE SHELL VELOCITY BALE 1 (WHICH SHOULD BE FULL REPLACEMENT AT THE DISCRETION OF THE OWNER) TO MINIMIZE SILT ACCUMULATION IN THE STORM DRAINAGE SYSTEM.
4. TRENCHES SHALL BE CONSTRUCTED AND MONITORED IN ACCORDANCE WITH NOTES FOR REPORTED ACTIVITIES ON THIS SHEET.

ROADWAY NOTES:

1. CONTRACTOR RESPONSIBLE TO DURING CONNECTION TO EXISTING ROADWAYS WITH A SMOOTH JOINT TRANSITION. JOINTS SHALL BE NEVER 1 1 MINIMUM.
2. ALL CURBS SHALL BE PROTECTED FROM CONSTRUCTION DAMAGE. ALL CHIPPED OR CRACKED PORTIONS OF CURB SHALL BE REPLACED IN ADDITION AND MORTAR CONCRETE, ASPHALT, SOIL AND GRAVEL DEBRIS ON STREETS SHALL BE CLEANED IN REPAIR THE CURBS TO THEIR ORIGINAL CONDITION
3. UPON COMPLETION OF ROAD, CLEANING THROUGH TOOL AND CLEAN ALL MANHOLE AND VALVE COVERS OF DIRT DEBRIS AND ASPHALT. ALL MANHOLE AND VALVE COVERS SHALL BE CLEAN AND ORIGINAL FROM 10-CHAPTER ACCEPTANCE. ALL MANHOLES AND VALVE COVERS SHALL BE PLANE WITH ASPHALT FINISH. CONCRETE COLLARS SHALL BE PROVIDED AT ALL VALVE AND CLEANOUT COVERS LOCATED IN ASPHALT PAVING.
4. CONTRACTOR SHALL PROVIDE ACCESIBLE CURB RAMPS AT ALL SIDEWALK AND CURB CONNECTIONS. RAMPS SHALL MEET ALL ADA REQUIREMENTS.

UTILITY NOTES:

1. ALL WATER AND SEWER CONSTRUCTION SHALL BE PERFORMED BY AN UNDERGROUND UTILITY CONTRACTOR LICENSED UNDER THE PROVISIONS OF CHAPTER 489 OF THE FLORIDA STATUTES.
2. ALL SERVICE SHALL HAVE A MINIMUM DEPTH OF COVER OF 36 INCHES MEASURED FROM TOP OF THE PIPE TO THE PROPOSED FINISHED GROUND AND SHALL EXCEPT AS OTHERWISE NOTED ON THE DRAWINGS WITH MORE AND MORE LONG WITHIN THE COUNTY ROAD SHALL HAVE A MINIMUM COVER DEPTH OF 42 INCHES PLACEMENT AND OF OUTSIDE OF PROPERTY REFER TO SAINT JOHNS COUNTY SANITARY AND DRAINAGE IS MINIMUM SECTION 3.3. VERTICAL AND HORIZONTAL ALIGNMENT MAY BE ADJUSTED TO MEET ADVERSE FIELD CONDITIONS UPON APPROVAL BY THE ENGINEER AND LOCAL REGULATORY AGENCY.
3. ALL UNDERGROUND UTILITIES MUST BE INSTALLED PRIOR TO FINAL PAVEMENT FOR PROJECT.
4. ALL SERVICE SHALL BE CLASS 2 TYPE MEANING VALVE CONNECTED OTHERWISE ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
5. WHERE WATER MAIN IS LAID UNDER BRIDGES OR WHERE IS OTHER PROBLEMS INFRASTRUCTURE THE MINIMUM INSPECTION OF ST. JOHN SHALL NOT EXCEED 50% OF THE MINIMUM INSPECTION RECOMMENDED BY THE MANUFACTURER OF THE PIPE PURCHASED.
6. NON OR NEW DEVELOPED UNDERGROUND WATER MAINS AND MAINS IN THIS PROJECT WILL BE LAID TO PROVIDE
   A. A HORIZONTAL DISTANCE OF AT LEAST THREE (3) FEET BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED NON-POTABLE SANITARY SEWER, STORM SEWER, STORM WATER PIPE AND OR PIPELINE CONVEYING RECLAIMED WATER REGULATED UNDER PART III OF CHAPTER 62-610 F.A.C.
   B. A HORIZONTAL DISTANCE OF AT LEAST (10 FEET) BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED GRAVITY TYPE SANITARY SEWER OR A HORIZONTAL DISTANCE OF AT LEAST THREE (3) FEET BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED GRAVITY TYPE SANITARY SEWER PIPE BOTTOM OF THE WATER MAIN AND THE TOP OF THE SEWER AT LEAST (18 INCHES) ABOVE THE TOP OF THE SEWER.
   C. A HORIZONTAL DISTANCE OF AT LEAST (6 FEET) BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED PRESSURE TYPE SANITARY SEWER OR PIPELINE CONVEYING RECLAIMED WATER AND REGULATED UNDER PART III OF CHAPTER 62-610 F.A.C. AND
   D. A HORIZONTAL DISTANCE OF AT LEAST (10 FEET) BETWEEN THE OUTSIDE OF THE WATER MAIN AND ALL PARTS OF ANY EXISTING OR PROPOSED NON-POTABLE SEWER, FULL PRESSURE AND PRESSURE SYSTEM.
7. WATER MAINS THAT CROSS ANY EXISTING OR PROPOSED GRAVITY OR VACUUM TYPE SANITARY SEWER OR STORM SEWER SHALL BE LAID AS THE OUTSIDE OF THE WATER MAIN IS AT LEAST 6 INCHES BELOW THE OTHER PIPE LINE.
8. WATER MAINS THAT CROSS ANY EXISTING OR PROPOSED PRESSURE TYPE SANITARY SEWER, OR STORM WATER OR RECLAIMED WATER PIPE LINE CONVEYING RECLAIMED WATER SHALL BE LAID SO THE OUTSIDE OF THE WATER MAIN IS AT LEAST 12 INCHES ABOVE OR BELOW THE OTHER PIPE LINE.

UTILITY NOTES (CONTINUED)

9. ALL WATER MAINS SHALL BE PRESSURE TESTED AT 150 PSI FOR 2 HOURS AND PRESSURE MAINS SHALL BE TESTED AS SPECIFIED IN ACCORDANCE WITH SECTION 4 OF THE STANDARD CONSTRUCTION DETAILS (SCD) AND TO BE DETERMINED BY THE GOVERNMENT FORMULA AND PRESSURE TESTING SHALL BE WITNESSED BY THE LOCAL REGULATORY AGENCY AND ENGINEER A MINIMUM OF 48 HOURS IN ADVANCE.
10. ALL 0.5 FITTINGS FOR WATER MAINS SHALL BE THE CLEANOUT LINES THE LINKED BOLT COUPLING WITH AND STANDARD ACCEPTANCE LINE LIKE 2" CONNECTION BOLTED FOR FACTS 1 MAIN PIPE AND FITTINGS FOR SERVICE. ALL BOLTS WITH 3 MAIN AND OTHER MEANS BE THE 1 OF JOINT FOR UNDERGROUND INSTALLATION SHALL BE COATED WITH A COMPLY OR [illegible] THE NEED TO BACKFILLING.
11. ALL PIPELINE MAINS WITH 16 TO 3 INCH SHALL BE SCHEDULE 40 PVC AND METERED AS MAIN ALL OTHER PIPING 4 INCH AND MORE 3 INCHES 2 INCHES AND SHALL BE SCH 40 PVC UNLESS OTHERWISE NOTED. ALL PIPE MAINS SHALL BE SCH 40 UNLESS OTHERWISE NOTED.
12. THE CONTRACTOR SHALL REPAIR THE PAVEMENT OF A CROSS STATE RIGHT OF WAY WHICH THE LINE IS BROKEN OR DAMAGED DURING OR AFTER DURING CONSTRUCTION. IF CROSS STATE RIGHT OF WAY STATES THAT THE PAVEMENT OF CONTRACTOR'S PROTECTION PLAN ON THE LOCAL REGULATORY AGENCY REGULATORY AUTHORITY OF THEIR SHALL SEND A DAILY REPORTED WHICH NOTICE FOR ALL INFLICTED DAMAGES OF A PUBLIC WORKS PROJECT. CONTRACTOR WHICH PRODUCTION IN SERVICE DURING WHICH RESULTS IN A CONNECTION OF THE SYSTEM CONTRACTOR'S WHICH THE NEW OR ON LIFE OF AN EXISTING, AS THE NEW SHOP WHICH OF PRODUCTION, I AM I THE INSTALLATION OR REPAIRED ON BY WHICH DIRECT WITH THE CONDITION OF WHICH A NETWORK OF WHICH DEFECTION EXISTING CHECK SAMPLES RESULT OR WHICH THE SYSTEM PRESSURE DROPS BELOW 40 PSI THE NOT WITH 20 WHICH WITHIN WHICH WILL BE LIFTED BY THE DESIGNATED REGULATORY AGENCY WHICH THE SYSTEM PRESSURE AND MECHANICAL DETAIL AND INFORMATION THROUGH DEFINITION DIRECTIVE LABORATORY AND THE RESULTS OF THE CALL CHECK THE SUPPLIER OF WATER SERVICE THE NEW WHICH INSTALLED WITHIN WHICH WILL SAME WHICH MAINTENANCE AS SOON AS POSSIBLE AND PROTECTION IN ADVANCE OF THE EVENT IF SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO SUPPLY SUPPLIED WATER REQUIRED AND WHICH AFFECTED AT THE CONTRACTORS COST.
13. MECHANICAL JOINT RESTRAINT SHALL CONFORM TO AWWA STANDARD C600.
14. IF THE VERT CONNECTION IS FOUND IN THE PIPE INTERCONNECTION AND A PRESSURE/ELASTIC SEALS WITH THE CONTRACTOR SHALL STOP WORK AND THE PROPER AUTHORITY NUMBER OF WARNING OF THE PLUMBING AGENCY SHOULD SHOW PIPE DEFECTS AND DO NOT RELIEF AND CAN STATUTORY SUCH AS FLOODGATES SHALL BE USED IN THE CONTRACTOR'S PLAN AND THE ELASTIC SEAL PIPE SHALL EXTEND AT LEAST 100 FEET BEYOND ANY DEFECTIVE WHICH ANY CONTRACTOR SHALL BE CLEANED SHALL BE PLACED ON AND REPAIRED AND AND CONTRACTOR'S INSPECTOR DIRECTIVE THE PROPER AUTHORITIES WILL BE NOTIFIED AND THE CONTRACTOR NOT ALL A PAIR PROPER REPORT.
15. ALL BACKFILL OR PROPERTY AND SHALL BE LOCATED ADJACENT TO WITH GRADE / ON FROM PROPERTY UNLESS OTHERWISE APPROVED BY THE LOCAL REGULATORY AGENCY AND THE ENGINEER.
16. AT THE TIME OF OR PRIOR TO FINAL APPROVAL, A CERTIFICATION CHECK APPROVAL SHALL BE PROVIDED TO THE LOCAL REGULATORY AGENCY AND THE ENGINEER.
17. AT ALL UTILITY CROSSING REQUIREMENTS OF VERTICAL SEPARATION AND FULL LENGTH OF GAUGE AND PIPE SHALL BE CENTERED ABOVE OR BELOW THE OTHER PIPE LINE OR THE WATER MAIN JOINTS ARE AS FAR AS POSSIBLE FROM THE OTHER PIPE LINE OR PIPE SHALL BE ARRANGED SO ALL OTHER MAIN WITH JOINTS ARE AT LEAST
   A. THREE (3) FEET FROM ABOVE OR HORIZONTAL TYPE SANITARY SEWER, STORM SEWER, STORM WATER FORCE MAIN OR PIPE LINE CONVEYING RECLAIMED WATER REGULATED UNDER PART III OF CHAPTER 62-610 F.A.C.
   B. [illegible] FEET FROM ALL ABOVE OR GRAVITY OR PIPE [illegible] TYPE SANITARY SEWER, WATER FOR FORCE MAIN OR PIPE LINE.
   CONVEYING RECLAIMED WATER NOT REGULATED UNDER PART III OF CHAPTER 62-610 F.A.C.
18. THE WATER MAIN DEFECTED ON THESE PLANS SHALL BE CONSTRUCTED TO HOLDERS ALL FEMALE AND MANUFACTURER WATER TYPE, PIPE LINE SERVICES AND PIPE MATERIALS MAINS SHALL BE PERFORMED BY A LICENSED UNDER A PLUMBER OF LICENSED UNDERGROUND UTILITY CONTRACTOR UNDER THE FOLLOWING SPECIAL CONDITIONS.
   A. THE TAPS AND FORCE SCHEDULED 48 HOURS IN ADVANCE BY THE CONTRACTOR WITH THE LOCAL REGULATORY AGENCY AND ENGINEER.
   B. TAPS REPRESENTATIVE MAY ALLOW OF SIZE 3 INCHES AND THE CONTRACT INCLUDE THE SERVICE PIPE METERING, CONNECTION, TOP SADDLE REQUIRED ACCEPTS THE METER INSTALLATION BY THE LOCAL UTILITY DEPARTMENT.
   C. LOCAL UTILITY MAINTAIN ALL DETAIL THE METER WHICH APPLICATION AND TO PROVIDE OF METERED WATER SERVICE AND ALL REQUIRED UTILITY DOCUMENTATION.
   D. ALL TAPS REQUIRED METER INSTALLATION OF SIZE 3 INCHES AND ABOVE SHALL PROVIDE AS SEED GRADY FOR WALL METER AND BRASS INSTALLATION BY LOCAL UTILITY COMPANY.
19. ALL SANITARY SEWER MAINS 4 INCHES AND LARGER SHALL BE SDR 35 PVC.
20. SEWER LINES AND SERVICES TO FINISHED GRADE AND SHALL BE PROTECTED FROM DAMAGE UNTIL ALL WORK IS COMPLETE.
21. AT MINIMUM ALL SANITARY SEWER LINES 4 INCHES AND LARGER SHALL BE INSPECTED BY A REPORT WITH RECORDING SYSTEM AND COPIES OF THE VIDEO SHALL BE PROVIDED TO THE ENGINEER FOR REVIEW AND APPROVAL. THE STATE AGENCY LOCAL REGULATORY AGENCY REGULATORY AND CONSTRUCTION OF THE SYSTEM MAY REQUIRE ADDITIONAL TESTING IF THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE ALL TESTING REQUIRED TO FOR FINAL APPROVAL OF ALL REGULATORY AGENCIES.
22. ALL SANITARY SEWER FORCE MAINS SHALL BE SDR 14 PVC.
23. THE CONTRACTOR SHALL INSTALL ANY MECHANICAL AIR RELEASE VALVES ON FORCE MAINS AT CHANGES IN ELEVATION OF 2 FEET THE 10 METER FIELD ADJUSTMENT ON DIAMETER NOT SHOWED ON THESE PLANS.
24. A 3 INCH PLUMP-OUT WITH LOCAL REGULATORY AGENCY PROVIDED SHALL BE PROVIDED ON ALL FORCE MAINS LOCATED ADJACENT TO RIGHT-OF-WAY ON PRIVATE PROPERTY. PLUMP-OUT SHALL BE ADJACENT TO LOCAL UTILITY FORCE / FROM ADJACENT PUBLIC STREET ON RIGHT-OF-WAY.
25. ALL WORK TO COMPLY WITH LOCAL REGULATORY AGENCIES INCLUDING BUT NOT LIMITED TO SAINT JOHNS COUNTY, ST. JOHNS RIVER WATER MANAGEMENT DISTRICT, ELC AND PREP.
26. ALL STANDARD SERVICE SERVICE LATERAL TO BE A MINIMUM OF 1 INCHES AND GRAVITY MAINS TO BE A MINIMUM OF 2 INCHES.

TESTING NOTES:

1. TESTING SHALL CONFORM TO ANY OF ACCEPTABLE SPECIFICATIONS FOR TESTING THE QUALITY AND GRADES. A SAMPLE TESTING IS ACCEPTABLE AS PER THE GOVERNMENT REPORT BY METRO, INC. AS SUBMITTED.

LEGEND

EXISTING	PROPOSED
PROPERTY BOUNDARY	
CENTER LINE	
EASEMENT	
CURB & GUTTER	
WALL CURB & GUTTER	
TURNAROUND SEDIMENT	
CONCRETE	
FENCE	
CONTOUR	15
SPOT ELEVATION	
POND / WMA / POE	POND / WMA / POE
SMALL FLOW LINE	
SIGN	
OVERHEAD ELECTRIC	OE
UNDERGROUND ELECTRIC	UE
WATER MAIN	
SANITARY SEWER	
FORCE MAIN	FM
BOOT DRAIN	
ROOF DRAIN	
STORM SEWER INLET	
MANHOLE	
STORM SEWER STRUCTURE NUMBER	
MAJOR DRAINAGE COVER	
MINOR DRAINAGE COVER	
6.70 AC DRAINAGE AREA	
SOIL BORING	9-14
SOIL AUGER	
BENCH MARK	
LIMITS OF CLEARING	
METERED END SECTION	
BEND PIPE	
TEE	
CAP	
FIRE HYDRANT	
GATE VALVE	
REDUCER / ENLARGER	
BACK FLOW PREVENTER	
WATER METER	
TREE	
TREE LINE	
GUY WIRE	
WOODEN POWER POLE	
CONCRETE POWER POLE	
FFE = 10.00 FINISH FLOOR ELEVATION	FFE = 10.00
TRAFFIC DIRECTIONAL ARROWS	
CLEAN OUT	
CLEAN OUT	
LIMITS OF WORK	

			REVISIONS

SCALE AS SHOWN
DATE
DRAWN
CHECKED
APPROVED

GENERAL NOTES

JACKSONVILLE FAIRGROUNDS
PHASE 2 60% SUBMITTAL

gai consultants
00 0001
[illegible] SUITE 200
ORLANDO, FLORIDA 32801
PHONE (407) 423-8300

PROJECT NO /DASH NO

SHEET
C001

HALF SCALE: 1"=400'

LEGEND

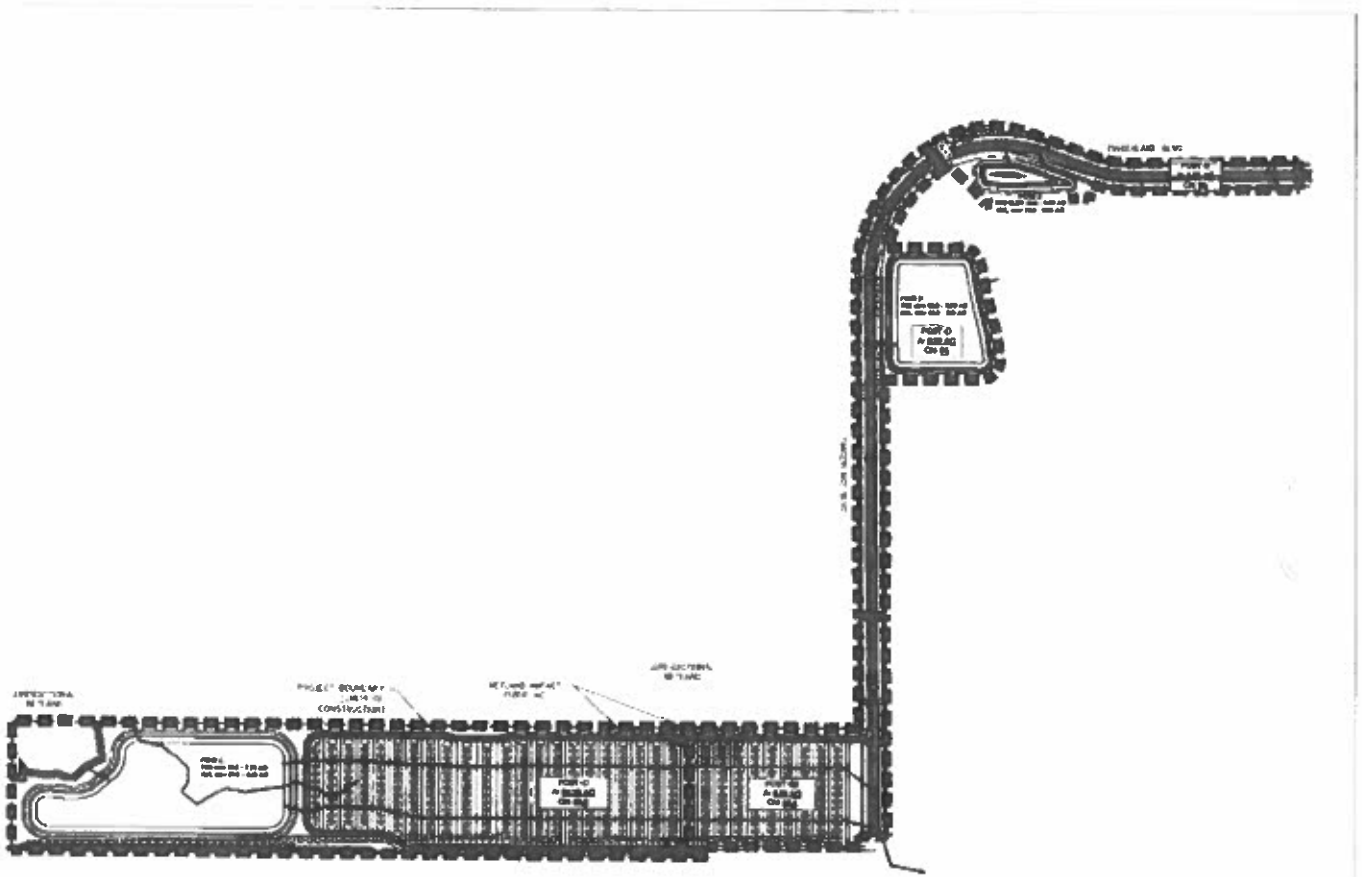
- BASIN DIVIDE
- Tc PATH
- WETLAND

PRE DEVELOPMENT BASIN

JACKSONVILLE FAIRGROUNDS
PHASE 2 60% SUBMITTAL

gai consultants

C002



LEGEND

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JACKSONVILLE FAIRGROUNDS
PHASE 2 60% SUBMITTAL

gai consultants

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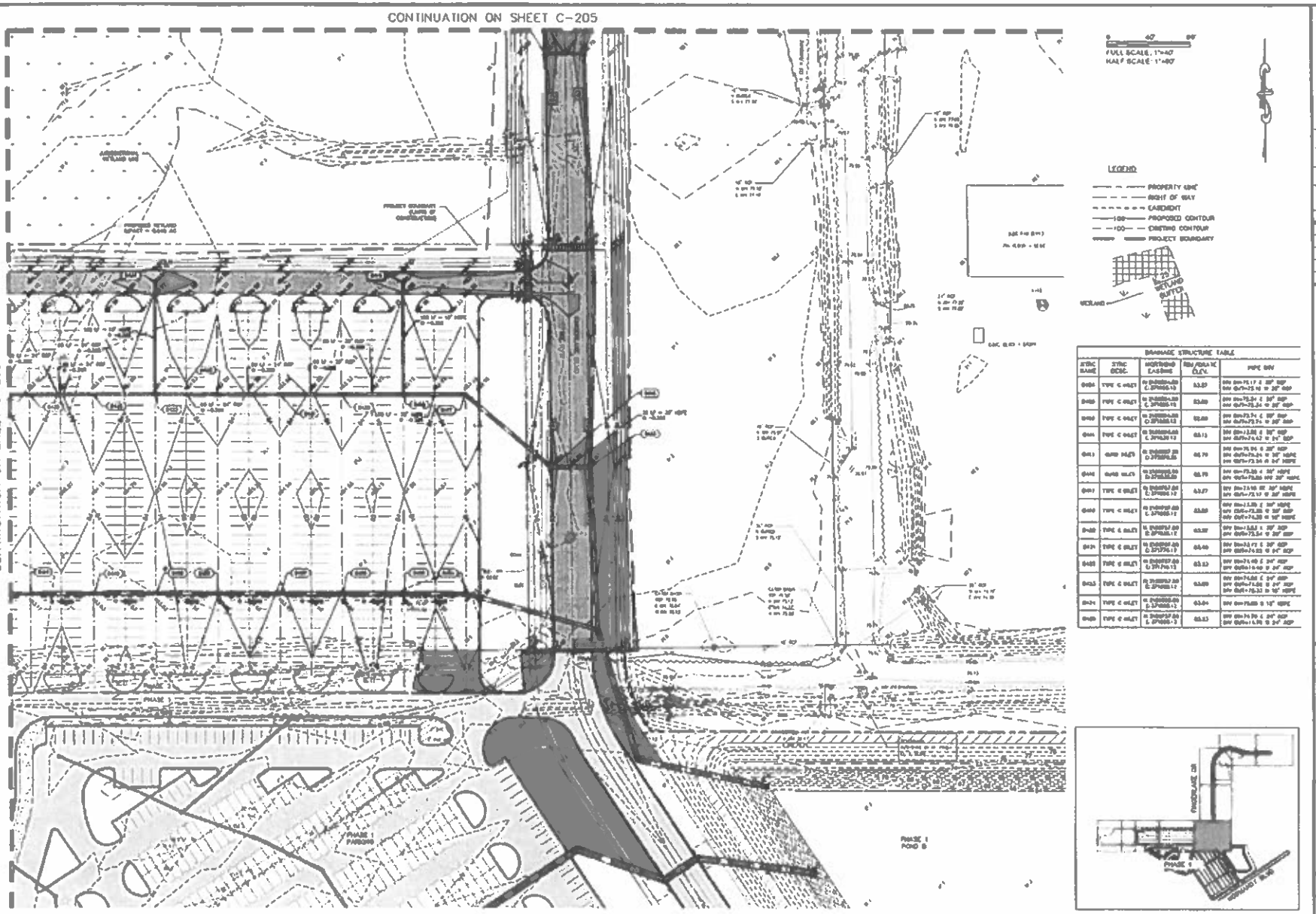


DRAINAGE STRUCTURE TABLE

STRC NAME	STRC DESC.	NORTHING EASTING	RIM/GRATE ELEV.	PIPE INV
D400	TYPE C INLET	N: [illegible] E: [illegible]	83.87	INV IN=[illegible] 18" RCP INV OUT=[illegible] 18" RCP
D402	TYPE C INLET	N: [illegible] E: [illegible]	83.80	INV IN=[illegible] 18" RCP INV OUT=[illegible] 18" RCP
D403	TYPE C INLET	N: [illegible] E: [illegible]	82.80	INV IN=[illegible] 18" RCP INV OUT=[illegible] 18" RCP
D404	TYPE C INLET	N: [illegible] E: [illegible]	83.13	INV IN=[illegible] 18" RCP INV OUT=[illegible] 24" RCP
D411	GRATE INLET	N: [illegible] E: [illegible]	82.70	INV IN=[illegible] 18" HDPE INV OUT=[illegible] 18" HDPE INV OUT=[illegible] 24" HDPE
D412	GRATE INLET	N: [illegible] E: [illegible]	82.70	INV IN=[illegible] 18" HDPE INV OUT=[illegible] 18" HDPE
D413	TYPE C INLET	N: [illegible] E: [illegible]	83.27	INV IN=[illegible] 18" HDPE INV OUT=[illegible] 18" HDPE
D420	TYPE C INLET	N: [illegible] E: [illegible]	83.80	INV IN=[illegible] 18" HDPE INV OUT=[illegible] 18" HDPE INV OUT=[illegible] 18" HDPE
D422	TYPE C INLET	N: [illegible] E: [illegible]	83.32	INV IN=[illegible] 18" RCP INV OUT=[illegible] 18" RCP
D424	TYPE C INLET	N: [illegible] E: [illegible]	83.46	INV IN=[illegible] 24" RCP INV OUT=[illegible] 24" RCP
D425	TYPE C INLET	N: [illegible] E: [illegible]	83.33	INV IN=[illegible] 18" RCP INV OUT=[illegible] 24" RCP
D426	TYPE C INLET	N: [illegible] E: [illegible]	83.80	INV IN=[illegible] 18" RCP INV OUT=[illegible] 18" HDPE INV OUT=[illegible] 18" HDPE
D427	TYPE C INLET	N: [illegible] E: [illegible]	83.04	INV IN=[illegible] 18" HDPE
D428	TYPE C INLET	N: [illegible] E: [illegible]	83.33	INV IN=[illegible] 18" RCP INV OUT=[illegible] 24" RCP

REVISIONS

NO.	DATE	BY	CHKD	DESCRIPTION
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

SCALE AS SHOWN
DATE
DRAWN
CHECKED
APPROVED

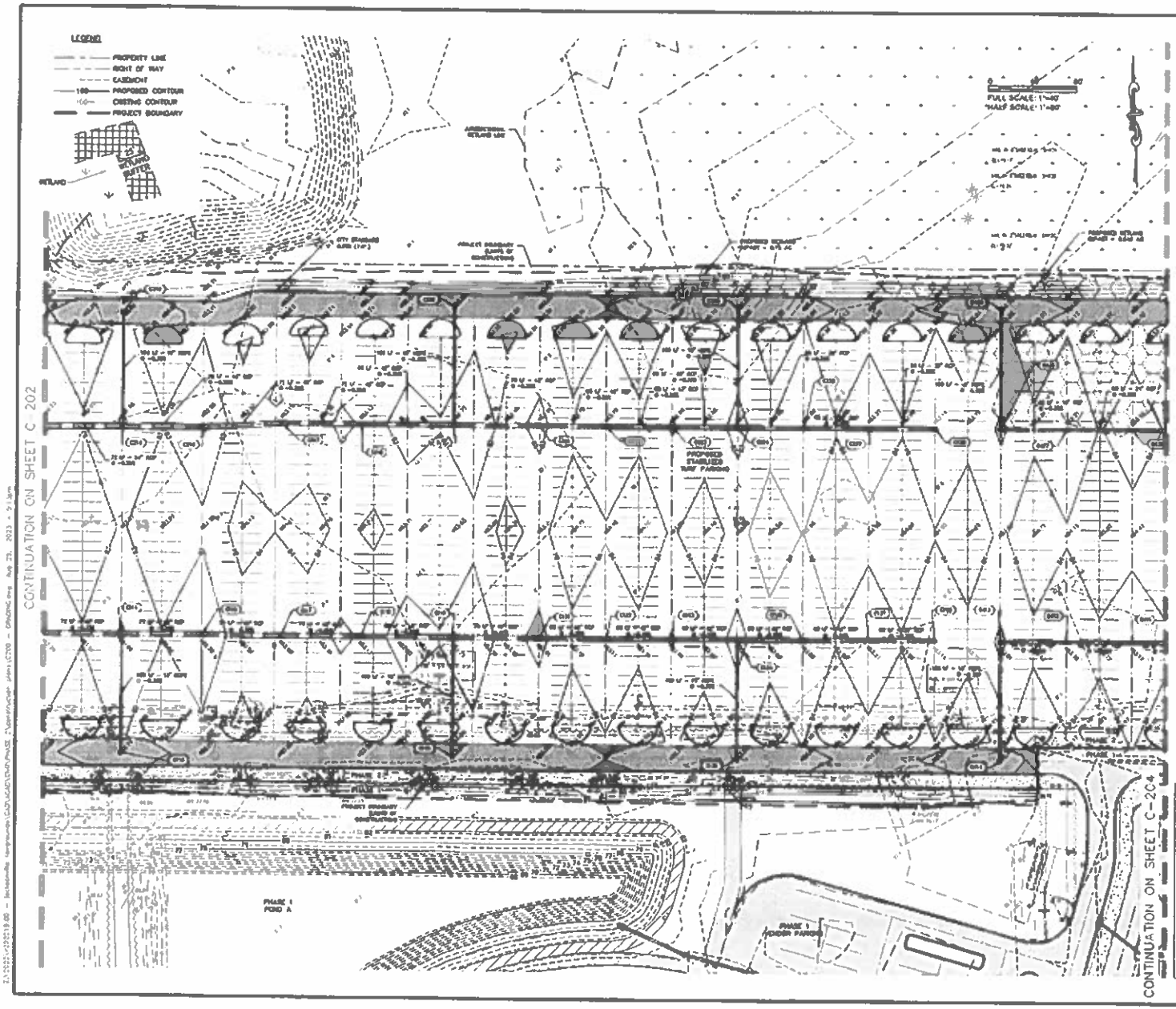
GRADING PLAN

JACKSONVILLE FAIRGROUNDS PHASE 2 60% SUBMITTAL

gai consultants

PROJECT NO./BASIN NO.

SHEET C201



DRAINAGE STRUCTURE TABLE

EPIC NAME	EPIC DESC	NORTHING EASTING	RIM/GRATE ELEV	PIPE INV
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REVISIONS

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GRADING PLAN

JACKSONVILLE FAIRGROUNDS PHASE 2 60% SUBMITTAL

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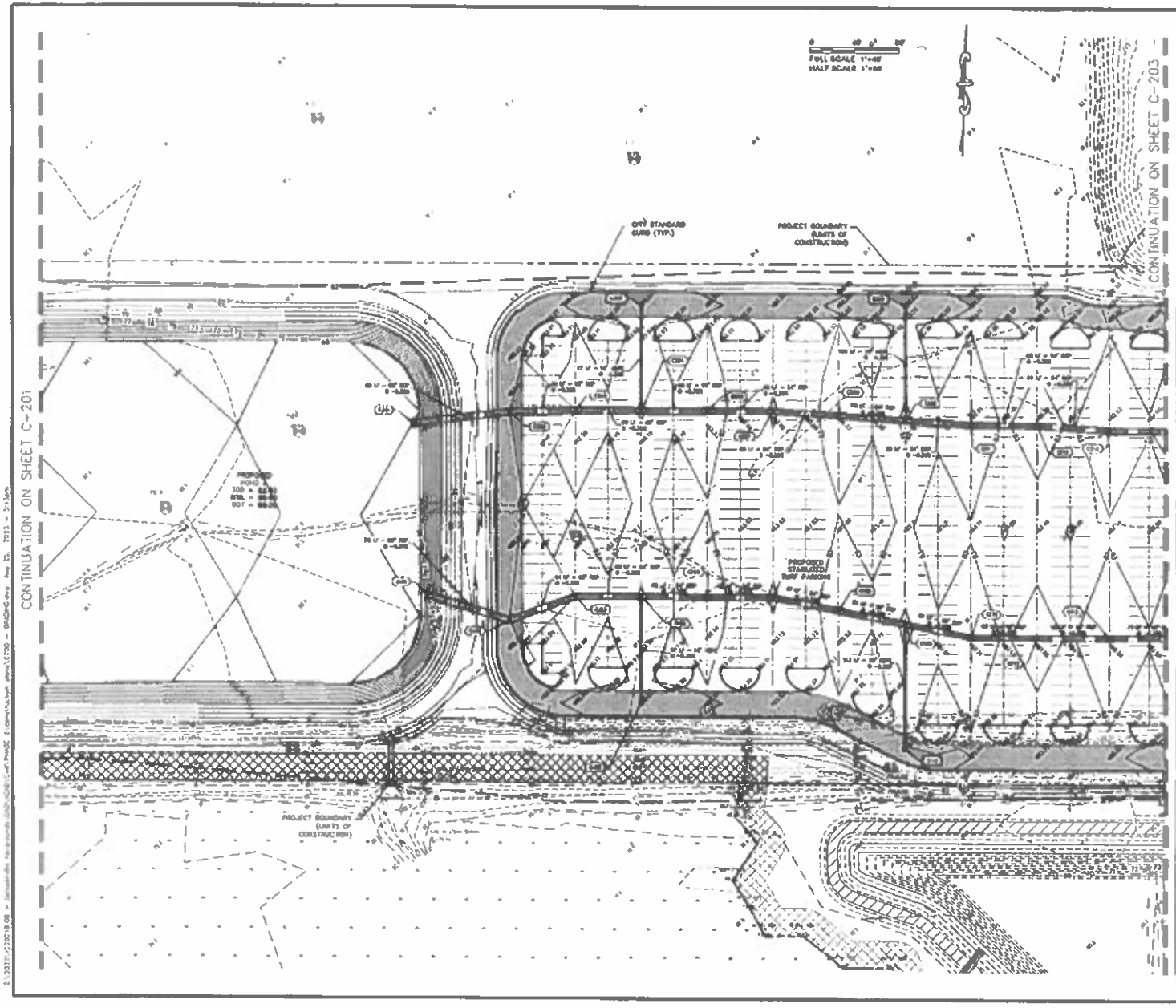
SHEET
C202



REVISIONS

SCALE AS SHOWN
DATE
DRAWN
CHECKED
APPROVED

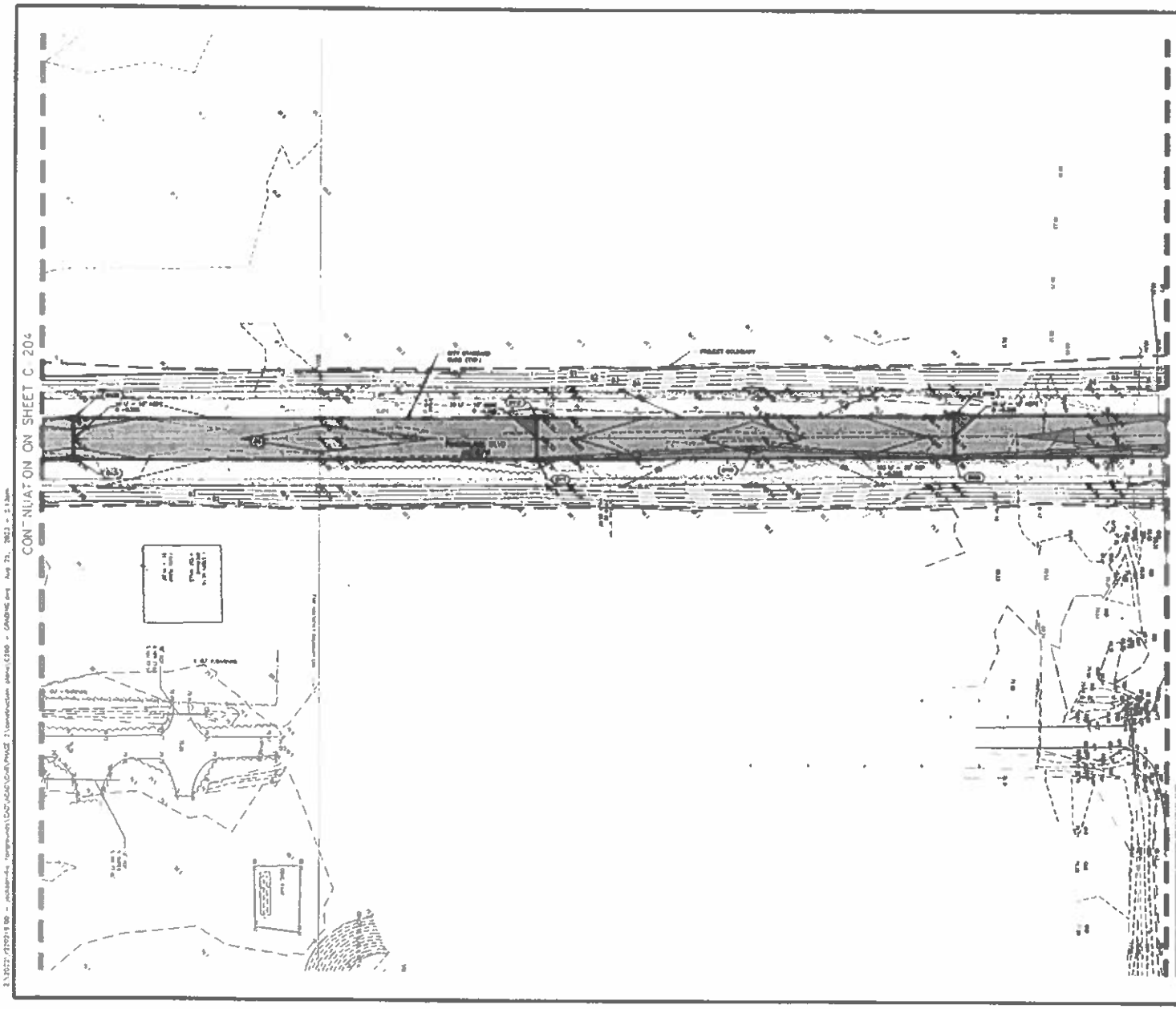
GRADING PLAN

JACKSONVILLE FAIRGROUNDS PHASE 2 60% SUBMITTAL

gai consultants

PROJECT NO./DASH NO.

SHEET
C202



DRAINAGE STRUCTURE TABLE

STRUC NAME	STRUC DESC.	INVERTED EASTING	RIM/GRATE ELEV.	PIPE INV
D4.01	CURB INLET	N 1129000.00 E 3750000.00	65.75	INV IN=74.45 E 24" HDPE INV OUT=74.00 E 18" HDPE
D4.02	CURB INLET	N 1129000.00 E 3750000.00	65.60	INV IN=73.65 E 18" HDPE
D4.03	CURB INLET	N 1129000.00 E 3750000.00	63.25	INV IN=71.27 E 24" HDPE INV OUT=70.47 E 24" HDPE INV OUT=70.27 E 18" HDPE
D4.04	CURB INLET	N 1129000.00 E 3750000.00	63.15	INV IN=70.00 E 18" HDPE
D4.05	PIPE / GRATE	N 1129000.00 E 3750000.00	63.15	INV IN=70.00 E 24" HDPE INV OUT=70.00 E 24" HDPE
D4.06	CURB INLET	N 1129000.00 E 3750000.00	63.13	INV IN=70.00 E 24" HDPE INV OUT=70.00 E 18" HDPE
D4.07	CURB INLET	N 1129000.00 E 3750000.00	63.26	INV IN=70.70 E 18" HDPE

REVISIONS

SCALE: AS SHOWN

DATE

DRAWN

DESIGNED

APPROVED

GRADING PLAN

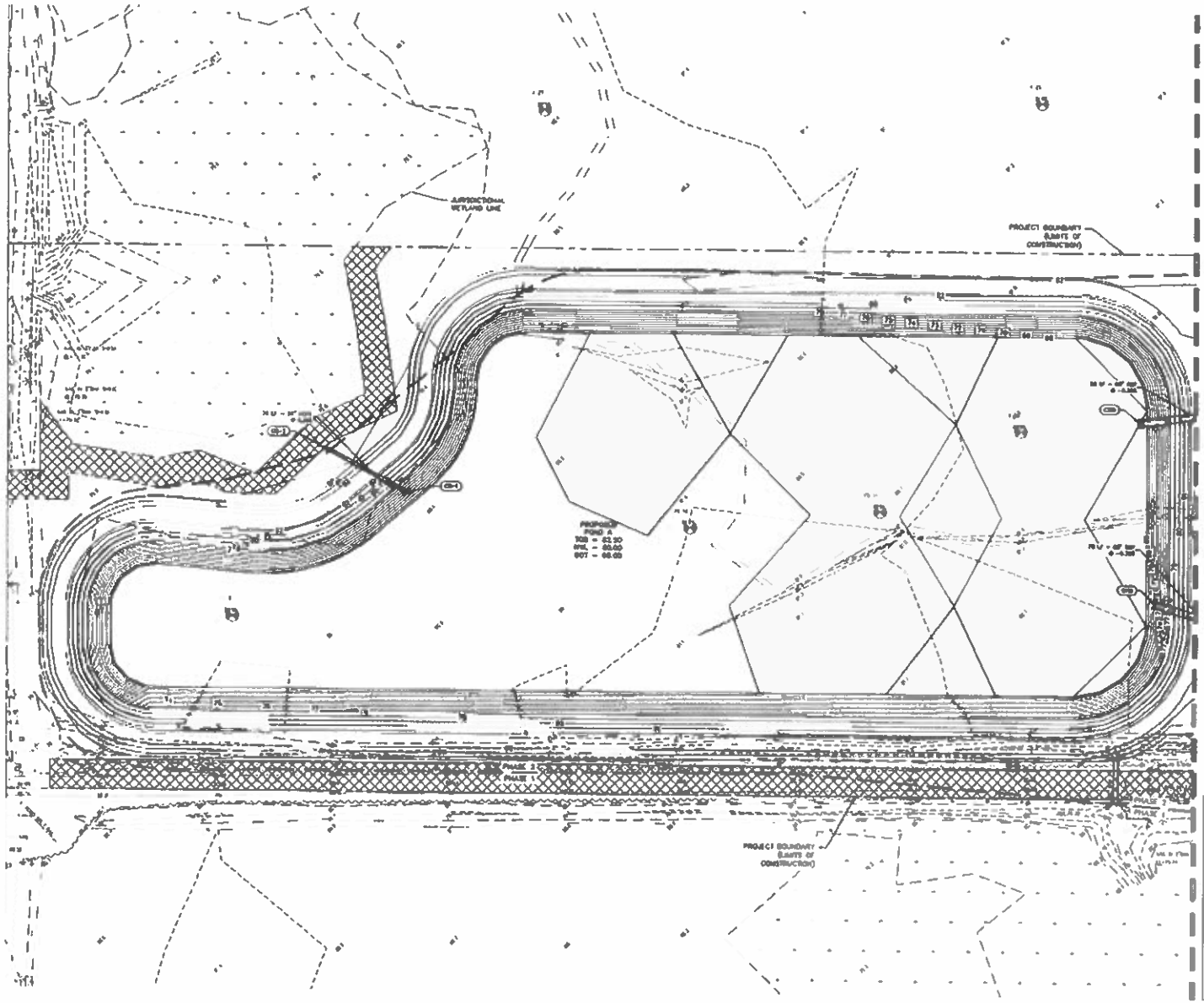
JACKSONVILLE FAIRGROUNDS
PHASE 2 60% SUBMITTAL

gai consultants

PRAIC(NO./DATE NO

SHEET
C204

EXHIBIT D



DRAINAGE STRUCTURE TABLE				
STRC NAME	STRC DESC.	NORTHING EASTING	RIM/GRATE ELEV.	PIPE DIV
DS-1	TYPE 9 INLET	[illegible]	73.00	DIV DIV=-3.00 DIV 1.0" HDPE
DS-2	MES	[illegible]	[illegible]	DIV DIV=-2.71 DC 24" HDPE

REVISIONS

SCALE AS SHOWN

DATE

DRAWN

CHECKED

APPROVED

GRADING PLAN

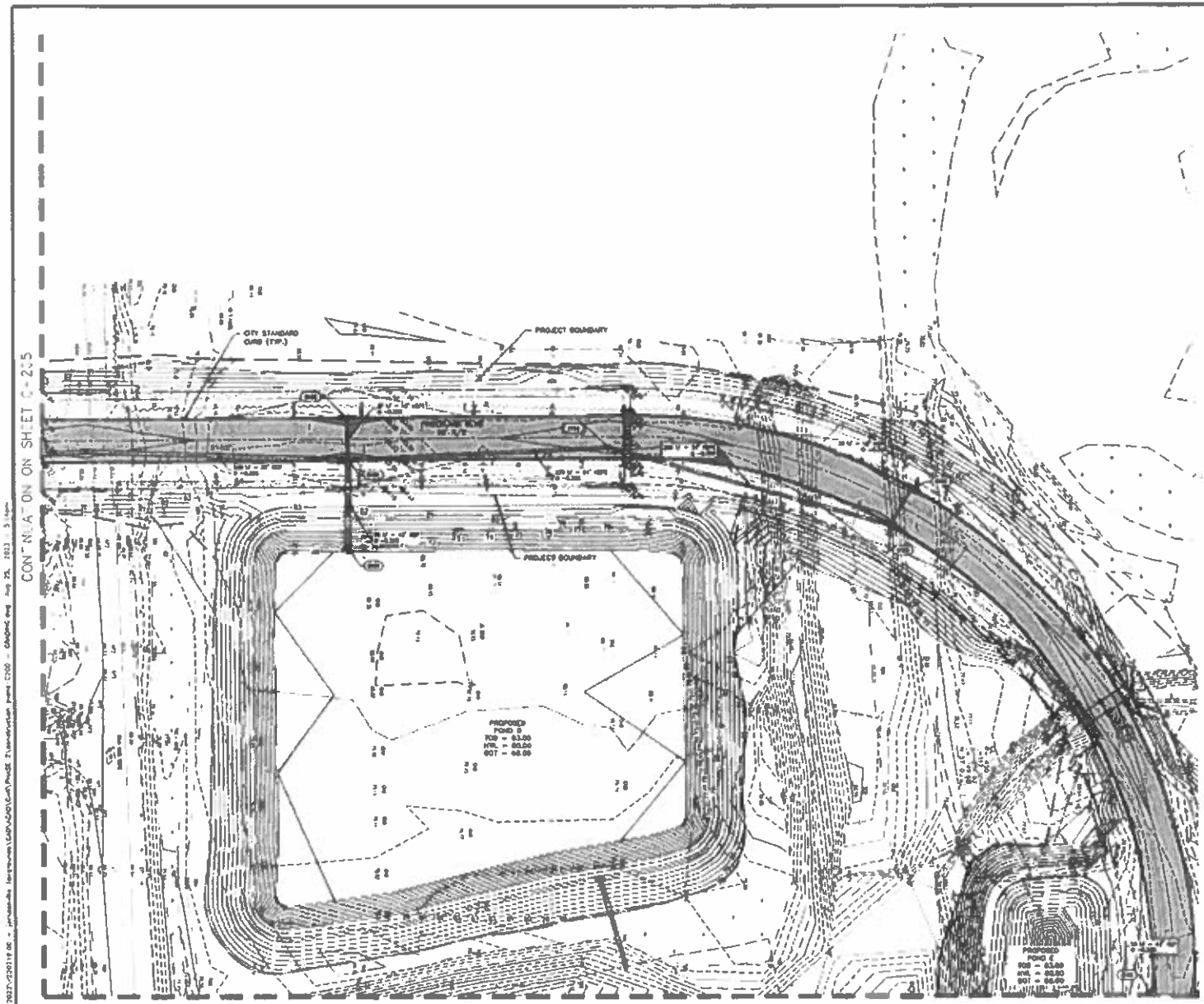
JACKSONVILLE FAIRGROUNDS PHASE 2 60% SUBMITTAL

gai consultants

PROJECT NO./DASH NO.

SHEET

C201



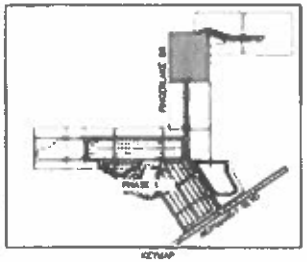
FULL SCALE 1"=40'
HALF SCALE 1"=80'

LEGEND

- PROPERTY LINE
- RIGHT OF WAY
- EASEMENT
- PROPOSED CONTOUR
- EXISTING CONTOUR
- PROJECT BOUNDARY

DRAINAGE STRUCTURE TABLE

STRUC NAME	STRUC DESC.	NORTHING EASTING	RIM/GRATE ELEV.	PIPE INV
DI-01	MES	N: 1[illegible] E: 1[illegible]	75.25	INV IN=73.00 S 12" HDPE
DI-02	CURB INLET	N: 1[illegible] E: 1[illegible]	68.74	INV IN=71.23 S 24" HDPE INV IN=71.23 S 24" HDPE INV OUT=70.23 S 24" HDPE INV OUT=70.23 S 24" HDPE
DI-03	CURB INLET	N: 1[illegible] E: 1[illegible]	68.74	INV IN=70.34 E 18" HDPE
DI-04	TYPE J GRATE	N: 1[illegible] E: 1[illegible]	64.14	INV IN=70.40 S 24" HDPE INV OUT=70.40 S 24" HDPE
DI-05	CURB INLET	N: 1[illegible] E: 1[illegible]	65.00	INV IN=70.00 S 24" HDPE INV OUT=70.00 SE 18" HDPE
DI-06	CURB INLET	N: 1[illegible] E: 1[illegible]	65.00	INV IN=70.00 SE 18" HDPE
DI-07	TYPE J GRATE	N: 1[illegible] E: 1[illegible]	64.14	INV IN=71.40 S 24" HDP INV OUT=71.40 S 24" HDP



KEYMAP

REVISIONS

SCALE AS SHOWN
DATE
DRAWN
CHECKED
APPROVED

GRADING PLAN

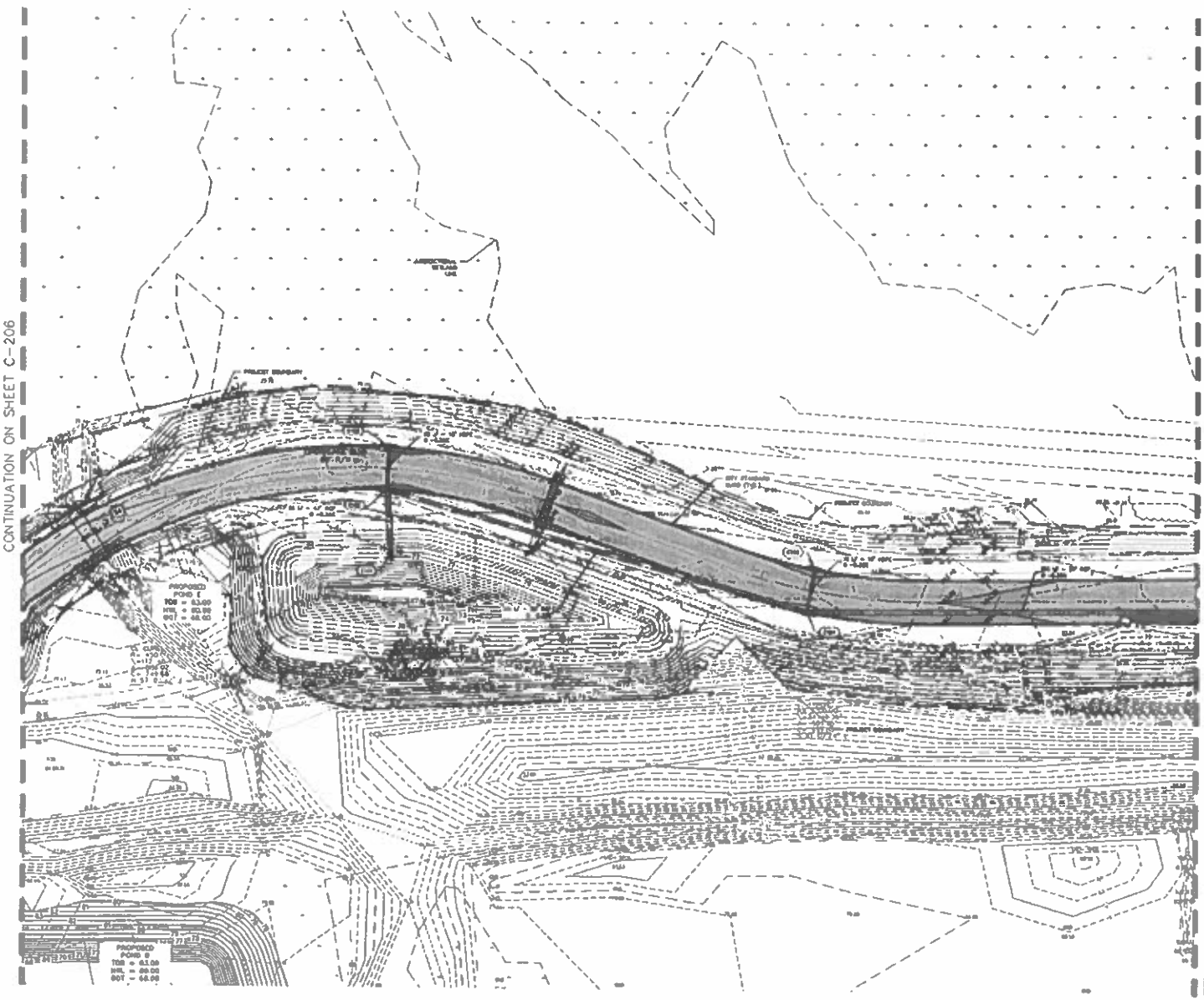
JACKSONVILLE FAIRGROUNDS PHASE 2 60% SUBMITTAL

gai consultants

PROJECT NO./DASH NO.

SHEET C206

EXHIBIT D



DRAINAGE STRUCTURE TABLE

STRUC NAME	STRUC TYPE	NORTHING EASTING	RIM/GRATE ELEV.	PIPE INV
EX01	MES	N: 0 E: 0	74.00	INV EX01=71.00 D 42" RCP
EX02	CURB INLET	N: 0 E: 0	80.00	INV EX=70.17 D 42" RCP INV EX01=71.07 E 18" RCP INV EX01=73.17 D 42" HDPE
EX03	CURB INLET	N: 0 E: 0	83.00	INV EX=73.00 D 42" HDPE
EX04	CURB INLET	N: 0 E: 0	83.20	INV EX=73.20 D 24" RCP INV EX01=74.20 D 18" HDPE INV EX01=76.20 E 24" RCP
EX05	CURB INLET	N: 0 E: 0	83.30	INV EX=75.00 D 42" HDPE

SCALE: AS SHOWN
DATE
DRAWN
CHECKED
APPROVED

REVISIONS

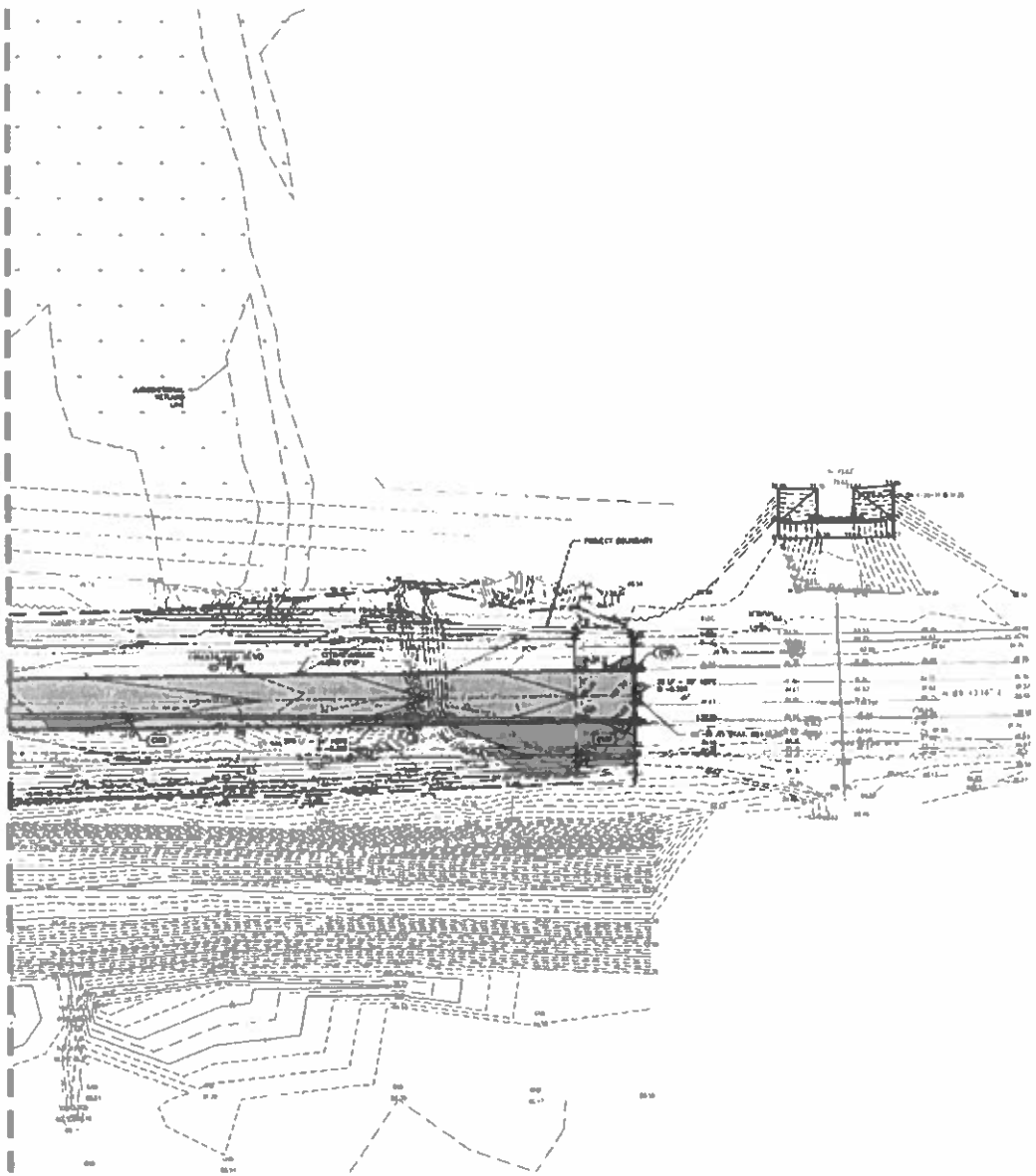
GRADING PLAN

JACKSONVILLE FAIRGROUNDS
PHASE 2 60% SUBMITTAL

gai consultants

PROJECT NO./DWG NO.

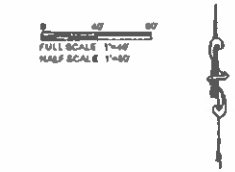
SHEET
C207



FULL SCALE 1"=40'
HALF SCALE 1"=80'

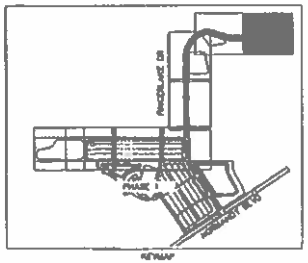
LEGEND

- PROPERTY LINE
- RIGHT OF WAY
- EASEMENT
- 100 PROPOSED CONTOUR
- EXISTING CONTOUR
- PROJECT BOUNDARY



DRAINAGE STRUCTURE TABLE

STRC NAME	STRC DESC.	NORTHING EASTING	RIM/GRATE ELEV.	PIPE INV
[illegible]	TYPE C INLET	[illegible]	[illegible]	[illegible]
[illegible]	CURB INLET	[illegible]	[illegible]	[illegible]
[illegible]	CURB INLET	[illegible]	[illegible]	[illegible]



REVISIONS

SCALE AS SHOWN
DATE
DRAWN
CHECKED
APPROVED

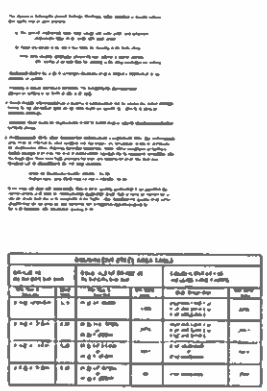
GRADING PLAN

JACKSONVILLE FAIRGROUNDS
PHASE 2 60% SUBMITTAL

gai consultants

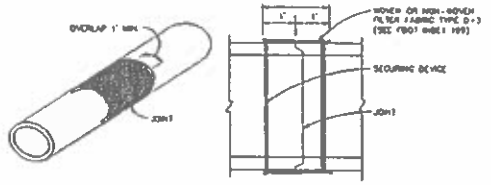
PROJECT NO./DASH NO.

SHEET
C208



NOTES FOR MANHOLES & INLETS

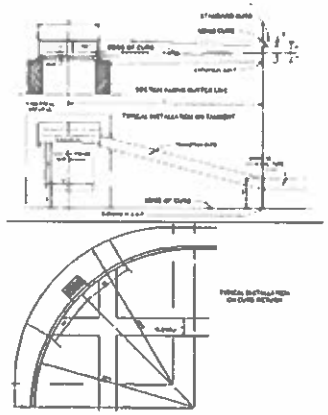
N.T.S.



NOTE:
COST OF FILTER FABRIC JACKET TO BE INCLUDED IN COST OF PIPE CULVERTS.

FILTER FABRIC JACKET

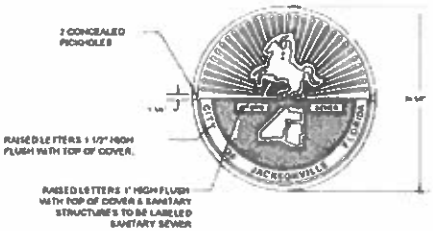
N.T.S.



STANDARD CURB INLET INSTALLATION

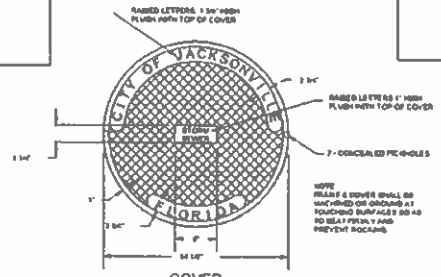
N.T.S.

COVER DETAIL

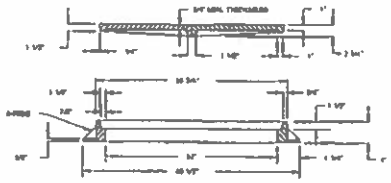


MANHOLE COVER DETAIL

N.T.S.



COVER



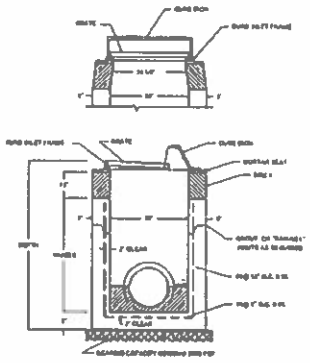
FRAME

PICKHOLE DETAILS

ROD DETAIL

STORM SEWER MANHOLE COVER & FRAME STORM

N.T.S.



STORM SEWER CURB INLET

N.T.S.

REVISIONS

SCALE: AS SHOWN

DATE

DRAWN

CHECKED

APPROVED

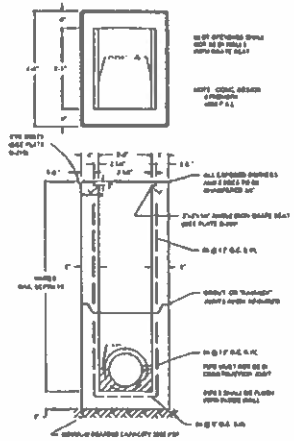
DETAILS

JACKSONVILLE FAIRGROUNDS
PHASE 2 60% SUBMITTAL

gai consultants

PROJECT NO./DASH NO.

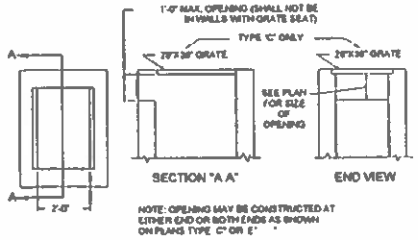
SHEET
C500



STORM SEWER TYPE "C" INLET

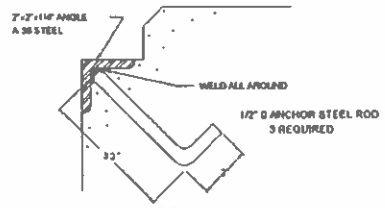
N.T.S.

Note
All Type "C"& "E" inlets with slab deeper than 6" shall be constructed with a horizontal bar(s) maximum spacing 6", 1" diameter Galv. pipe embedded 2" in pre-cast or other approved method.



NOTE: OPENING MAY BE CONSTRUCTED AT EITHER END OR BOTH ENDS AS SHOWN ON PLANS TYPE "C" OR "E"

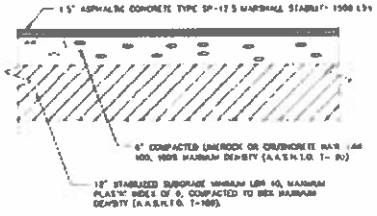
DETAILS OF OPENINGS IN DITCH BOTTOM INLETS



GRATE SEAT DETAIL

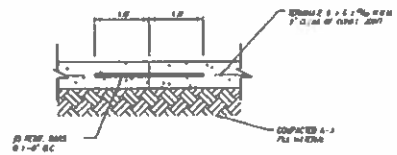
DETAIL FOR TYPE "C & E" INLET

N.T.S.



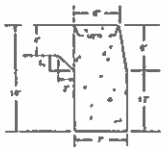
TYPICAL DRIVE ISLE PAVING SECTION (ASPHALT)

N.T.S.



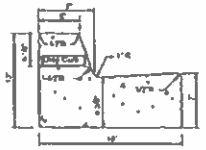
CONSTRUCTION JOINT

N.T.S.



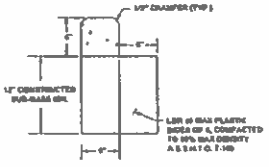
HEADER CURB

N.T.S.



STANDARD CURB AND GUTTER

N.T.S.



TYPICAL RIBBON CURB

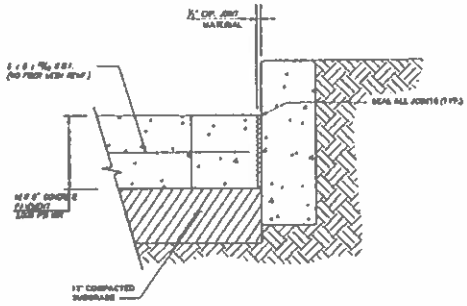
N.T.S.

NOTES

1. FOR MACHINE PLACED ITEMS, UNLESS AN ALTERNATE METHODS IS APPROVED BY THE ENGINEER, CONTRACTION JOINTS SHALL BE SAWED. THE JOINTS SHALL BE SAWED AS SOON AS THE CONCRETE HAS HARDENED TO THE DEGREE THAT DAMAGES PAVEMENT WILL NOT OCCUR AND BEFORE UNCONTROLLED SHRINKAGE CRACKING BEGINS.
2. CONTRACTION JOINTS SHALL BE SPACED AT INTERVALS OF TEN (10) FEET EXCEPT WHERE A LESSER INTERVAL IS REQUIRED FOR CLOSURE. EVERY NO SECTION SHALL BE LESS THAN FIVE (5) FEET IN LENGTH.
3. EXPANSION JOINTS SHALL BE CONSTRUCTED AT ALL RADIUS POINTS, AND AT OTHER LOCATIONS INDICATED IN THE PLANS. THEY SHALL BE LOCATED AT INTERVALS OF 100 FEET BETWEEN OTHER EXPANSION JOINTS, ENDS OF A RUN AND BETWEEN TRUCK LOADS THAT EXCEED THE TIME LIMITS AND PREVIOUSLY SPECIFIED. THE JOINTS SHALL BE 1/2 INCH IN WIDTH.

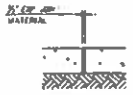
CURB AND GUTTER DETAILS

N.T.S.



STANDARD CONCRETE PAVEMENT SECTION

N.T.S.

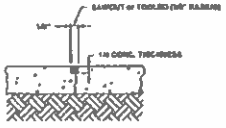


CONCRETE EXPANSION JOINT DETAIL

N.T.S.

TYPICAL SIDEWALK SECTION

N.T.S.



NOTE: JOINTS SHALL BE CONSTRUCTED NO LATER THAN 12 HRS AFTER CONCRETE IS PLACED

CONCRETE CONTRACTION JOINT

N.T.S.

REVISIONS

SCALE: AS SHOWN
DATE
DRAWN
CHECKED
APPROVED

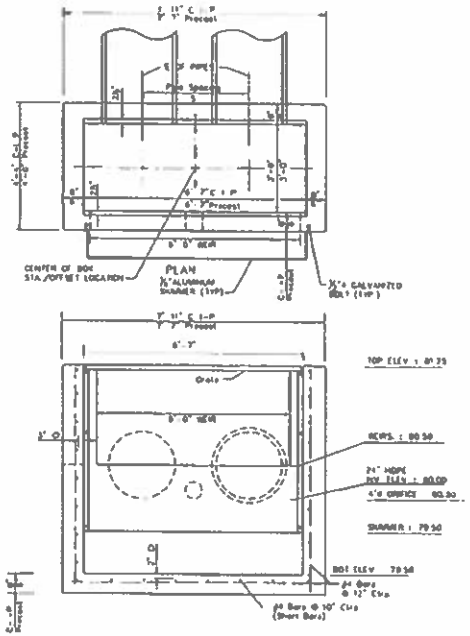
DETAILS

JACKSONVILLE FAIRGROUNDS
PHASE 2 60% SUBMITTAL

gai consultants

PROJECT NO./DASH NO.

SHEET
C501

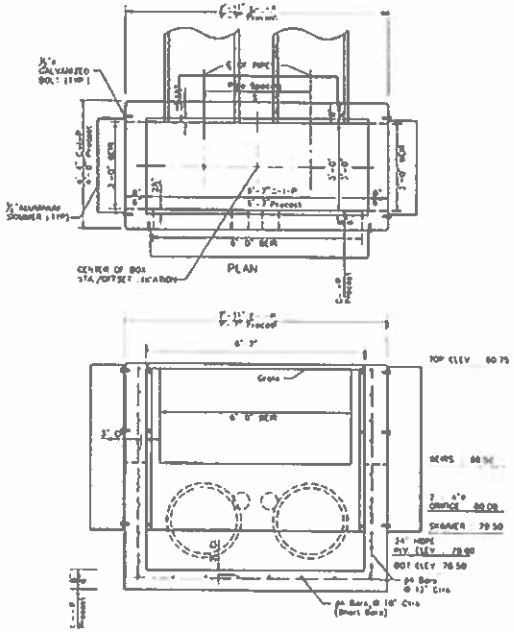


SECTION
HORIZONTAL WALL REINFORCING
SCHEDULES (TABLE 4)

	SCHEDULE		VAR. SPACING	
			BARS	OUT
0'-5'	#5	0.31	5½"	5"
5'-7'	#5	0.37	6½"	6"
7'-15'	#4	0.53	4½"	4"

TYPE H POND C OUTFALL STRUCTURE (CS-C1)

Recommended Maximum Pipe Size
3'-0" Out - 24" Pipe
6'-7" Out - 1-60" Pipe
Or 2-24" Pipe (Sch 5)



SECTION
HORIZONTAL WALL REINFORCING
SCHEDULES (TABLE 4)

	SCHEDULE		VAR. SPACING	
			BARS	OUT
0'-5'	#5	0.31	5½"	5"
5'-7'	#5	0.37	6½"	6"
7'-15'	#4	0.53	4½"	4"

TYPE H POND C OUTFALL STRUCTURE (CS-C2)

Recommended Maximum Pipe Size
3'-0" Out - 24" Pipe
6'-7" Out - 1-60" Pipe
Or 2-24" Pipe (Sch 5)

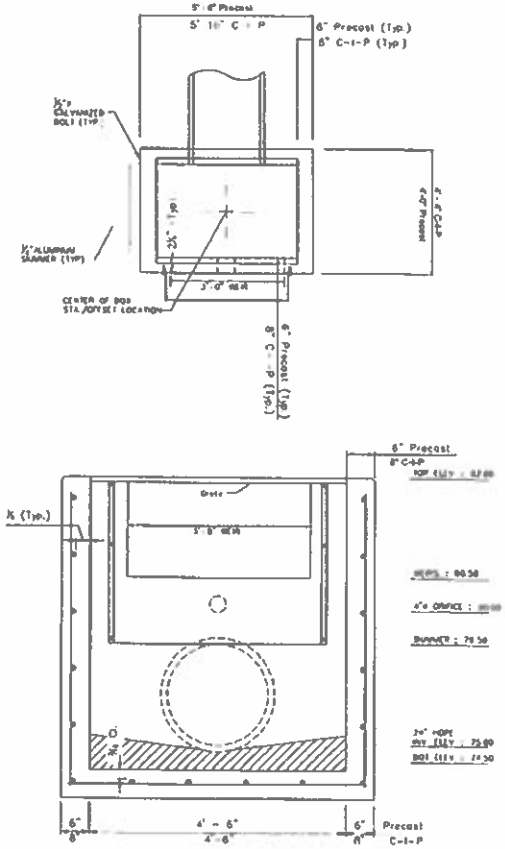


TABLE 3
HORIZONTAL WALL REINFORCING SCHEDULE

			VAR. SPACING	
			BARS	OUT
0-5	#4	0.31	4"	4"
5-12	#4	0.31	4"	4"
12-18	#4	0.31	4½"	4"
18-20	#4	0.31	4½"	4"

NOTES

TYPE E POND D OUTFALL STRUCTURE

REVISIONS

SCALE: AS SHOWN
DATE:
DRAWN:
CHECKED:
APPROVED:

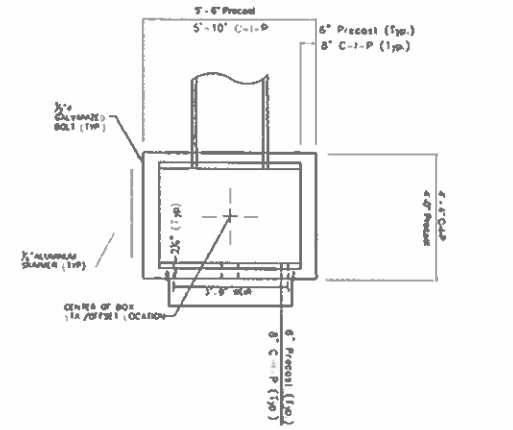
DETAILS

JACKSONVILLE FAIRGROUNDS
PHASE 2 60% SUBMITTAL

GAI CONSULTANTS

PROJECT NO./BASIN NO.

SHEET
C502



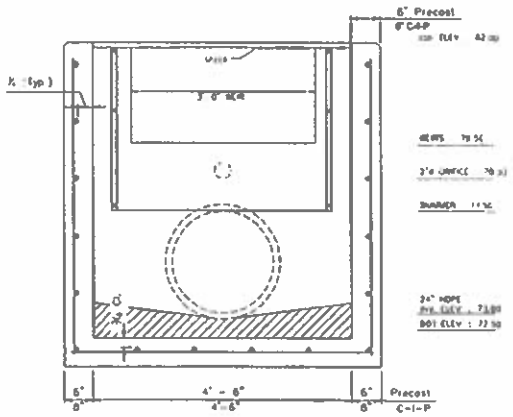
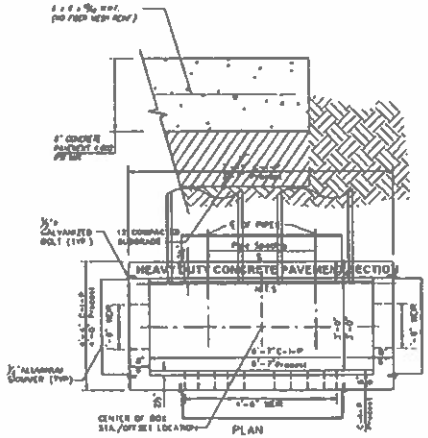


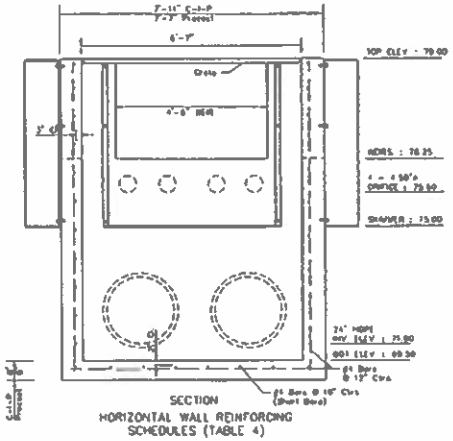
TABLE 5
HORIZONTAL WALL REINFORCING SCHEDULE

WALL DEPTH	SCHEDULE	AREA (in²/ft)	MAX SPACING BARS	MAX SPACING CONC
0'-5'	0.5	0.24	6.5"	5"
5'-7'	0.5	0.33	6.5"	4"
7'-10'	0.5	0.44	6.5"	3"
10'-12'	0.5	0.59	6.5"	3"

NOTES

TYPE E POND E OUTFALL STRUCTURE





HORIZONTAL WALL REINFORCING SCHEDULES (TABLE 4)

WALL DEPTH	SCHEDULE	AREA (in²/ft)	MAX SPACING BARS	MAX SPACING CONC
0'-5'	0.5	0.24	6.5"	5"
5'-7'	0.5	0.33	6.5"	4"
7'-10'	0.5	0.53	6.5"	4"

TYPE H (CS-2) POND B OUTFALL STRUCTURE

Recommended Maximum Pipe Dia.
3'-0" Box - 24" Pipe
5'-7" Box - 1-60" Pipe
Or 2-24" Pipe (L=3'-5')

WALL DESIGNS – RECTANGULAR STRUCTURES

VERTICAL REINFORCING		HORIZONTAL REINFORCING	
WALL DEPTH	SCHEDULE	WALL DEPTH	SCHEDULE
SIZE: 3'-0"			
21.17'-40'	A	21.17'-40'	B
SIZE: 4'-0"			
21.17'-40'	A	21.17'-40'	B
SIZE: 5'-0"			
21.17'-40'	A	21.17'-33'	B
		33'-40'	C
SIZE: 6'-0"			
21.17'-40'	A	21.17'-22'	B
		22'-40'	C
SIZE: 7'-0"			
21.17'-40'	A	21.17'-15'	B
		15'-25'	C
		25'-40'	D
SIZE: 8'-0"			
21.17'-40'	A	21.17'-11'	B
		11'-19'	C
		19'-29'	D
		29'-40'	F
SIZE: 9'-0"			
21.17'-40'	A	21.17'-15'	C
		15'-22'	D
		22'-40'	F

REINFORCING SCHEDULE

SCHEDULE	GRADE 60 STEEL OR 65 KSI (WIRE FABRIC) in²/ft
A	0.20
B	0.24
C	0.37
D	0.55
F	0.75
[illegible]	1.00
[illegible]	1.45

GENERAL NOTES

1. Slab reinforcement is appropriate for top, intermediate, and bottom slabs
2. Slab depth is measured from finished grade to top of slab
3. Wall design depth is measured to the top of the bottom slab for bases and to the top of the intermediate slab for risers.
4. Wall height is the distance between top of lower slab to bottom of upper slab

WALL DESIGNS RECTANGULAR STRUCTURES

N.T.S.

REVISIONS

SCALE AS SHOWN

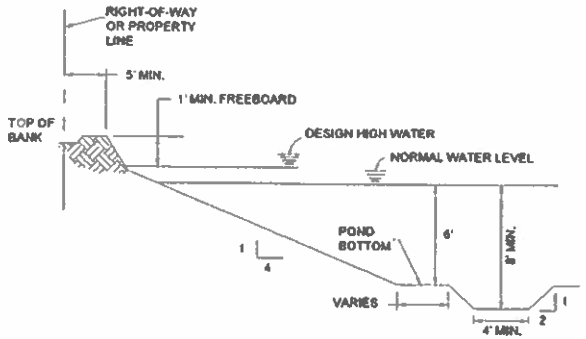
DETAILS

JACKSONVILLE FAIRGROUNDS
PHASE 2 60% SUBMITTAL

gai consultants

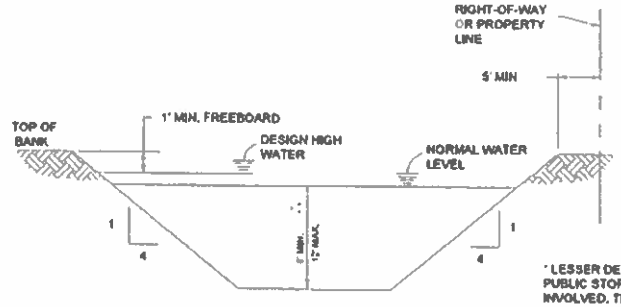
PROJECT NO/DASH NO

SHEET
C503



CASE 2

WET DETENTION POND DETAIL



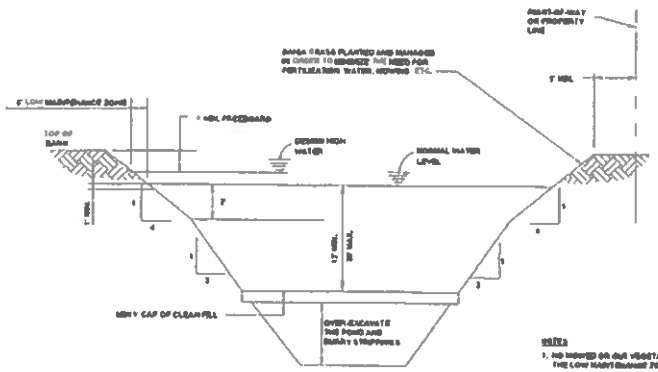
STANDARD DETENTION POND DETAIL
PREFERRED OPTION

* LESSER DEPTHS ARE ACCEPTABLE IF PUBLIC STORMWATER INFLOWS ARE NOT INVOLVED. THIS ALSO APPLIES TO PLATES D-1003, AND D-1004.

** FOR INTERCONNECTIONS OF DETENTION AREAS WITH PUBLIC STORMWATER INFLOWS, THE INTERCONNECTING PORTIONS MAY BE APPROVED FOR LESSER DEPTH WITH JUSTIFICATION ON A CASE BY CASE BASIS. ABSOLUTE MINIMUM DEPTH WILL BE 4.0 FEET.

DETENTION POND DETAIL, CASE 1

N.T.S.



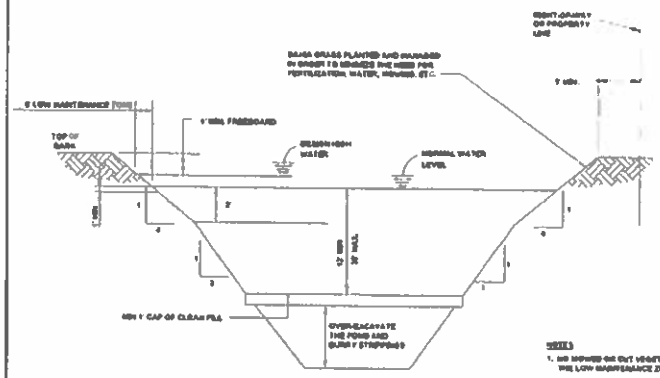
SWMF C	
TOP EL. (MIN)	[illegible]
MAX EL.	[illegible]
GRADE BREAK	[illegible]
MIN PIPE EL.	[illegible]
MAX PIPE EL.	[illegible]
TREATMENT EL.	[illegible]
M.A.-24 HR EL.	[illegible]
10 YR-24 HR EL.	[illegible]
25 YR-24 HR EL.	[illegible]

NOTES:

1. NO MOWED OR CUT VEGETATIVE MATERIAL SHALL BE DEPOSITED OR REMAINING IN THE LOW MAINTENANCE ZONE OR DEPOSITED IN THE WATER.
2. CARE SHOULD BE TAKEN TO PREVENT THE OVERSPRAY OF AQUATIC WEED PRODUCTS INTO THE LOW MAINTENANCE ZONE.
3. DETENTION PONDS MAY BE OVER EXCAVATED AND BACKFILLED WITH STRIPPINGS. PLACE A MINIMUM OF 1-FOOT THICK CAP OF CLEAN FILL OVER THE STRIPPINGS.

DETENTION POND DETAIL POND C

N.T.S.



SWMF D	
TOP EL. (MIN)	[illegible]
MAX EL.	[illegible]
GRADE BREAK	[illegible]
MIN PIPE EL.	[illegible]
MAX PIPE EL.	[illegible]
TREATMENT EL.	[illegible]
M.A.-24 HR EL.	[illegible]
10 YR-24 HR EL.	[illegible]
25 YR-24 HR EL.	[illegible]

NOTES:

1. NO MOWED OR CUT VEGETATIVE MATERIAL SHALL BE DEPOSITED OR REMAINING IN THE LOW MAINTENANCE ZONE OR DEPOSITED IN THE WATER.
2. CARE SHOULD BE TAKEN TO PREVENT THE OVERSPRAY OF AQUATIC WEED PRODUCTS INTO THE LOW MAINTENANCE ZONE.
3. DETENTION PONDS MAY BE OVER EXCAVATED AND BACKFILLED WITH STRIPPINGS. PLACE A MINIMUM OF 1-FOOT THICK CAP OF CLEAN FILL OVER THE STRIPPINGS.

DETENTION POND DETAIL POND D

N.T.S.

REVISIONS

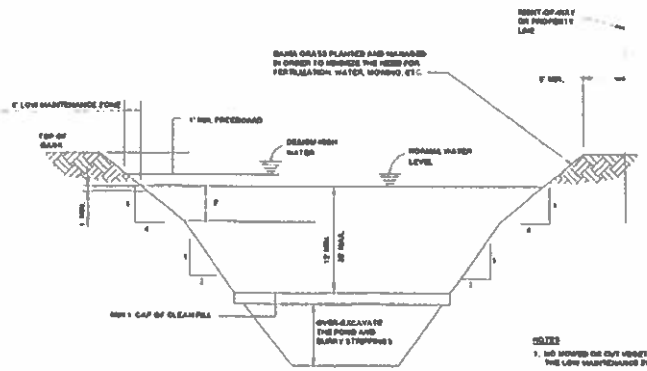
DETAILS

JACKSONVILLE FAIRGROUNDS
PHASE 2 60% SUBMITTAL

gai CONSULTANTS

PROJECT NO./DASH NO.

SHEET
C504



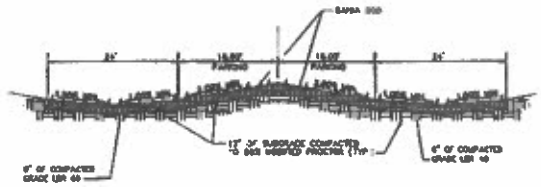
SWMF E	
POND EL. (MIN)	[illegible]
MIN. EL.	[illegible]
GRADE BREAK	[illegible]
DESIGN HIGH EL.	[illegible]
BASE POND EL.	[illegible]
AREA TREATMENT EL.	[illegible]
[illegible] EL.	[illegible]
10 YR-24 HR EL.	[illegible]
25 YR-24 HR EL.	[illegible]

NOTES

1. NO MOWED OR CUT VEGETATIVE MATERIAL SHALL BE DEPOSITED OR REMAINING IN THE LOW MAINTENANCE ZONE OR DEPOSITED IN THE WATER.
2. CARE SHOULD BE TAKEN TO PREVENT THE OVERSPRAY OF AQUATIC WEED PRODUCTS INTO THE LOW MAINTENANCE ZONE.
3. DETENTION PONDS MAY BE OVER EXCAVATED AND BACKFILLED WITH STUMPS. PLACE A MINIMUM OF 1-FOOT THICK CAP OF CLEAN FILL OVER THE STUMPS.

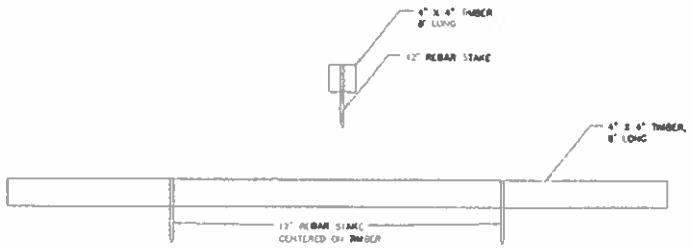
DETENTION POND DETAIL POND E

N.T.S.



GRASSED
OVER-FLOW PARKING LOT
TYPICAL SECTION

N.T.S.



TIMBER DETAIL

N.T.S.

REVISIONS

NO.	DATE	DRAWN	CHKD	APPD

SCALE AS SHOWN
DATE
DRAWN
CHECKED
APPROVED

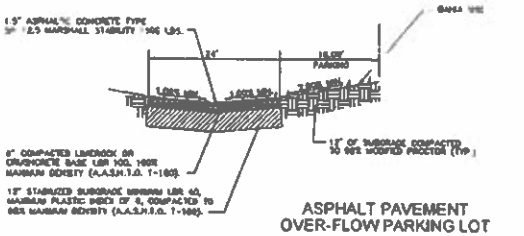
DETAILS

JACKSONVILLE FAIRGROUNDS
PHASE 2 60% SUBMITTAL

gai consultants

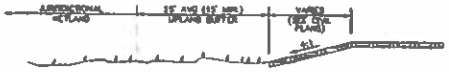
PROJECT NO./DASH NO.

SHEET
C505



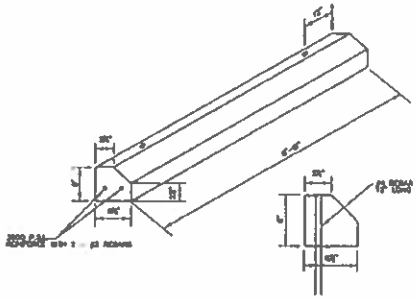
ASPHALT PAVEMENT
OVER-FLOW PARKING LOT
TYPICAL SECTION

N.T.S.



ADJACENT WETLAND
PROPOSED GRADING
TYPICAL SECTION

N.T.S.



WHEEL STOP

N.T.S.

REVISIONS					

SCALE AS SHOWN
DATE
DRAWN
CHECKED
APPROVED

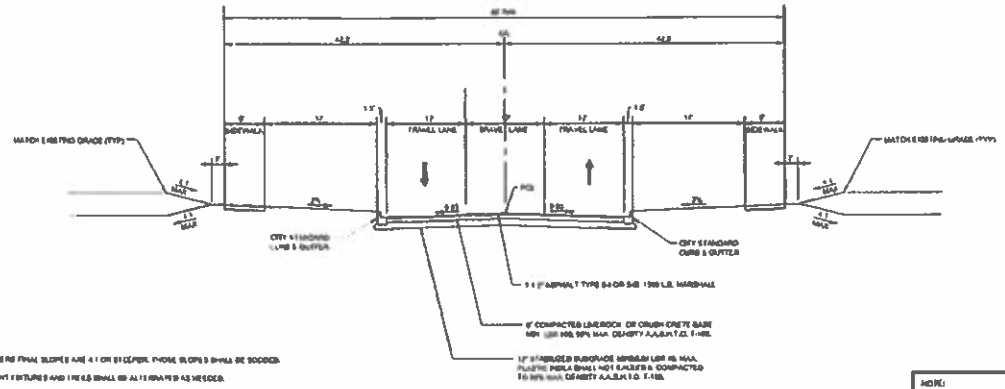
DETAILS

JACKSONVILLE FAIRGROUNDS
PHASE 2 60% SUBMITTAL

gai consultants

PROJECT NO./DASH NO.

SHEET
C506



NOTE:
DESIGN SPEED = 40 mph
POSTED SPEED = 30 mph
AADT = 44315

TYPICAL SECTION FINGERLAKE BLVD W/ 6' SIDEWALKS

N.T.S.

REVISIONS

SCALE AS SHOWN
DATE
DRAWN
CHECKED
APPROVED

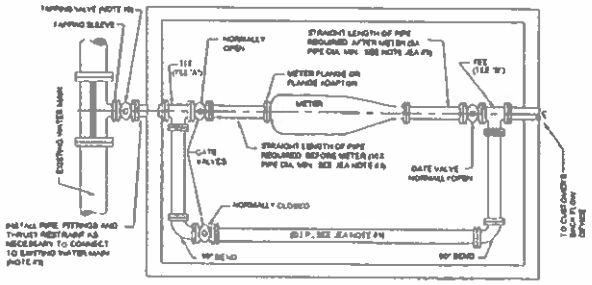
DETAILS

JACKSONVILLE FAIRGROUNDS
PHASE 2 60% SUBMITTAL

gai consultants

PROJECT NO /DASH NO

SHEET
C507



TO BE INSTALLED BY JEA (SEE NOTE 11)
MIN. LATERAL LENGTH REQUIRED
3" & 4" METERS ____ 14
6" & 8" METERS ____ 20
10" METERS ____ 24
(B.I.P. REQUIRED SEE JEA NOTES 8 & 12)

CONTRACTOR NOTES

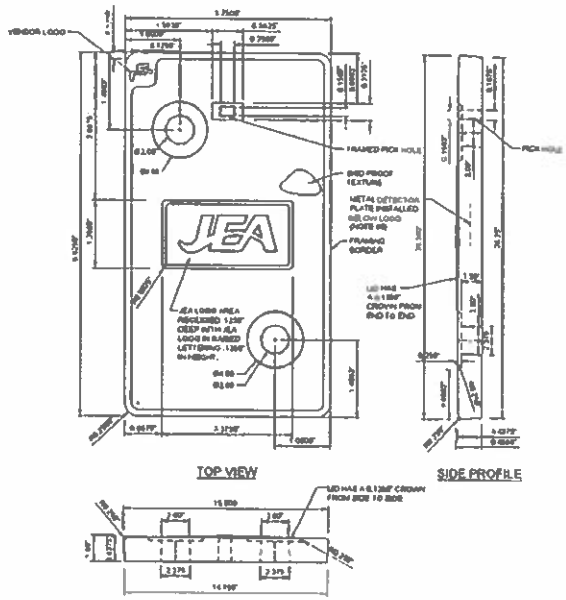
1. FOR "PRE-PAVE" INSTALLATIONS, THE CONTRACTOR SHALL CONSTRUCT TAP AND WATER MAIN PIPING (PVC OR D.I.P.) BETWEEN TAPPING VALVE AND SUB PROVIDING AN UNINSULATED JOINT PIPE BELOW WITH A MINIMUM LATERAL LENGTH AS SHOWN ABOVE FOR THE METER SIZE AND 3' PAST PIPING. THE METER BRACE CHAIR AT THE PROPOSED METER WALL SHALL BE FLAT. CONTRACTOR SHALL PROVIDE METER BOX, JEA WILL INSTALL METER BOX AND METER ASSEMBLY. (INCLUDING METER INLET & GATE VALVES AND ASSOCIATED BUTTS) FROM THE TAP TO THE BOX (SEE).
2. FOR "FULL-TAP" METER ASSEMBLY, JEA WILL PROVIDE AND INSTALL THE TAP METER BOX AND ALL OF THE ABOVE PIPING FITTINGS THE SUB.
3. FOR BOX DETAILS SEE PLATES W-3 AND W-4.
4. ALL METALLIC PIPE AND FITTINGS TO BE SAME SIZE AS METER, OR VARYING MORE PIPE.
5. MECHANICAL RETAINER GLAND RESTRAINTS OR WEDGE LUGS SHALL BE UTILIZED TO RESTRAIN ALL JOINTS. THE USE OF THRUST BLOCKS, RE RODS ANCHOR BOLTS AND MUSHROOMS SHALL ONLY BE UPON SPECIFICALLY APPROVED BY JEA MANAGEMENT.
6. PIPE FROM TAP TO BOX LINE SHALL BE DEA'S SCHED.
7. MINIMUM COVER OF LARGE WATER METERS SHALL BE 30" FROM TOP OF PIPE TO GRADE.
8. LOCATING WIRING REQUIRED FROM CONTROL BOX TO METER BOX. SEE PLATE W-4.
9. FOR METERS LARGER THAN 10" SIZE, PLEASE CONTACT JEA METER SHOP FOR ADDITIONAL REQUIREMENTS.
10. EACH SERVICE PIPE WITH POTABLE WATER (P.W.) SHALL INCLUDE A SEPARATE SERVICE TAP WITH (TAPPING VALVE OR GATE VALVE, BELOW GROUND PIPE) LOCATED PRIOR TO THE "B" BOX. WHENEVER THE WATER SERVICE SHALL INCLUDE A SEPARATE BACK FLOW VALVE (TAPPING VALVE OR GATE VALVE BELOW GROUND TYPE).
11. FOR TYPICAL UNDERGROUND INSTALLATION SEE PLATE W-3 & W-4.
12. SERVICE LINE SHALL BE SAME AS THE METER SIZE.

JEA NOTES

1. ALL POTABLE PIPING BETWEEN THE FITTINGS (SEE "A" AND THE "B") SHALL BE D.I.P. OR CLASS 150 D.I.P., INCLUDING ON-PAVE PIPING.
2. ALL POTABLE VALVES AND FITTINGS TO BE DUCTILE IRON RESTRAINED JOINT.
3. MINIMUM LENGTH OF 20' OF STRAIGHT PIPE TO BE IN THE LEFT OR RIGHT SIDE OF METER AND THE PIPE CONSISTS OF STRAIGHT PIPE TO BE INSTALLED ON OUTLET SIDE OF METER.
4. ALL METER INSTALLATIONS PROVIDE A TEST TEE TO BE INSTALLED BETWEEN THE METER AND VALVE ON DOWNSTREAM SIDE OF METER.

WATER METER INSTALLATION DETAILS
3" - 20" METERS

JANUARY 2022 PLATE W-5

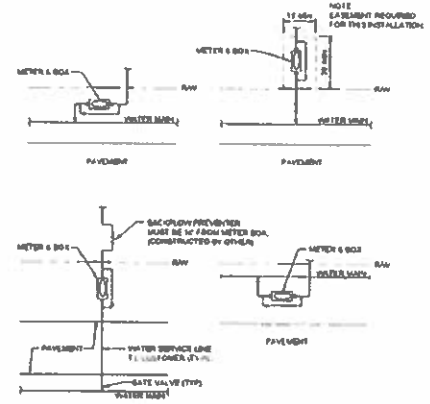


NOTES

1. ALL DIMENSIONS ARE IN INCHES.
2. COLOR SHALL BE OFF-WHITE, NON-FADING, SAND TEXTURED SATIN FINISH.
3. ALL TOPS SHALL MEET AS MUCH AS POSSIBLE.
4. THE LID SHALL BE CENTERED BY CELL NET FITTING OUT OVC AND BONDING METERING SYSTEM TO BE IN COMPLIANCE WITH THE STANDARD SPEC.
5. METAL DETECTOR PLATE SHALL BE DETECTABLE BY JEA MAGNETIC LOCATE EQUIPMENT.

WATER METER BOX POLYMER CONCRETE COVER
MODEL No. 65 - TWO HOLE

JANUARY 2022 PLATE W-4A



NOTES

1. THE DETAILS ABOVE ARE SUGGESTIONS FOR SOME TYPICAL LARGE METER 3" AND LARGE SIZE METER INSTALLATIONS. AS THIS INSTALLATION MAY VARY DEPENDING ON FIELD CONDITIONS ENCOUNTERED. FOR OTHER LOCATION LIMITATIONS SEE PLATE NOS. W-3 & W-4.
2. THE METER BOX SHALL BE [illegible] PRECAST MATERIAL. IF THE BOX IS LOCATED IN A DRIVEWAY OR SIDEWALK, THE BOX SHALL BE CONCRETE WITH HEAVY DUTY ALL GALVANIZED WITH NEW SPECIES GALV. TOP SHALL BE LOCATED IN DRIVEWAYS OR SIDEWALKS JUST BE APPROVED BY JEA PRIOR TO CONSTRUCTION.
3. FOR TYPICAL BOX INSTALLATION DETAILS SEE PLATE NO. W-3 THRU W-4.
4. FOR TYPICAL WATER INSTALLATION DETAILS SEE PLATE NO. W-5.

LARGE WATER METER INSTALLATIONS

JANUARY 2022 PLATE W-6

SCALE AS SHOWN
DATE
DRAWN
CHECKED
APPROVED

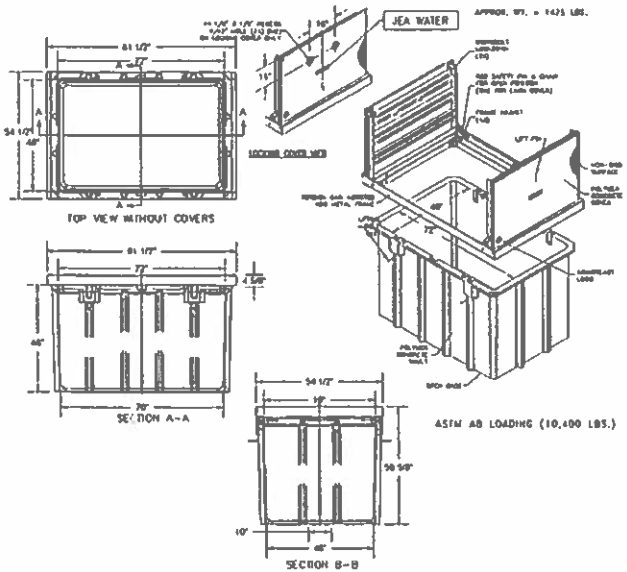
DETAILS

JACKSONVILLE FAIRGROUNDS
PHASE 2 60% SUBMITTAL

qal consultants
CO 0001
[illegible]
PHONE (407) 121-[illegible]

PROJECT NO./DASH NO.

SHEET
C508

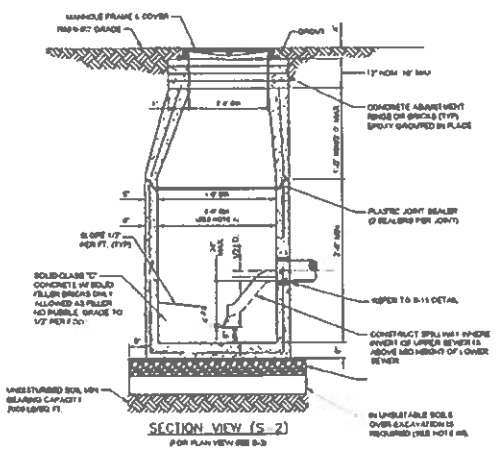


NOTES

1. THE DIMENSIONS SHOWN ARE FOR A STANDARD 48" WIDE BY 72" LONG BY 48" DEEP BOX. DIMENSIONS VARY ACCORDING TO METER SIZE & TYPE. SEE PLATE W-7A. ALL DIMENSIONS ARE SHOWN IN INCHES.
2. CONCRETE OR ASPHALT SLOPE NO SHAPE.
3. GRADE TO SLOPE AWAY FROM METER BOX.
4. DO NOT INSTALL METER BOX IN AREA SUBJECTED TO FLOODING.
5. LOCATING WIRING REQUIRED. SEE DETAIL W-44.
6. THE LARGE SIZES REQUIRE TWO 2" PVC LOCATE HOLES TO FIT ANTENNA.
7. A 4" THICK CONCRETE BOTTOM SHALL BE CONSTRUCTED DURING THE BOX INSTALLATION.

48" x 72" x 48" CO-POLYMER WATER METER BOX 4" & 6" METERS

JANUARY 2022 PLATE W-7A



SECTION VIEW (S-2)

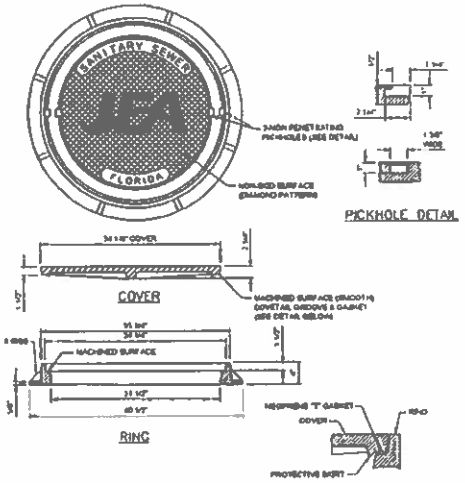
(FOR PLAN VIEW SEE S-3)

NOTES

1. PRECAST MANHOLE SECTIONS TO BE MANUFACTURED IN ACCORDANCE WITH THE LATEST EDITION OF A.S.T.M. C478 WITH ASTM C-76, TYPE II CEMENT. AS A LIP FOR MORTAR AND INVERT INSERTS SHALL BE FILLED WITH NON-SHRINK GROUT AND COATED WITH BITUMINOUS WATERPROOFING MATERIAL.
2. THE INTERIOR AND EXTERIOR OF MANHOLE AND ADJUSTING RINGS SHALL BE GIVEN TWO COATS OF BITUMINOUS WATERPROOFING MATERIAL.
3. IF SPECIFIED, LINER TO BE INSTALLED ON INSIDE SURFACE OF MANHOLE. THE BITUMINOUS WATERPROOFING MATERIAL SHALL BE SHORTLED ON THE INSIDE.
4. JUNCTION MANHOLE (CLASS IV 16 VERTICAL) SHALL BE 5' DIA WITH SPECIFIED LINER.
5. ALL MANHOLE JOINTS BELOW THE TOP COVER SEAL MUST BE SEALED AS 2" WIDE WITH EXTERIOR JOINT TAPE WITH PRIMER. TAPE ON THE CONE SEAL MUST BE OPTIONAL. SEE PLATE S-11
6. IN SOILS CLASS OR MORE ORGANIC SOILS & UNCLASSIFIED SOILS INCLUDING SOIL GROUPS 1A, 1B, 1C, 1D, 2A, 2B AND 3B THE SOILS SHALL BE OVER-EXCAVATED AS ADDITIONAL 12" (±1 FOOT) AND BACKFILLED WITH FILL TO CLASS A-3 SOIL COMPACTED TO 98% ASTM D-1557, OR OVER EXCAVATED AS NECESSARY, 12" (±1 FOOT) AND BACKFILL WITH GRANULAR BACKFILL (#57 STONE).

SANITARY SEWER CONCRETE TYPE "A" MANHOLE 8"-21" SEWERS

JANUARY 2022 PLATES S-2, S-3

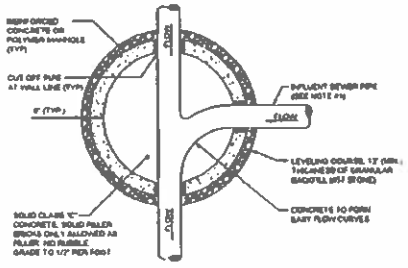


NOTES

1. MATERIAL ASTM A-48 CLASS 35B GRAY IRON.
2. RING WEIGHT 218 LBS APPROX.
3. COVER WEIGHT 274 LBS. APPROX.
4. ALL DIMENSIONS ARE SHOWN IN INCHES.
5. FOR MANHOLES WHICH WILL BE MAINTAINED BY JEA (INCLUDING UTILITY RELOCATION PROJECTS) THE COVER SHALL INCLUDE THE "JEA" LOGO AND A NEOPRENE GASKET.
6. FOR MANHOLES WHICH WILL BE MAINTAINED BY PARTIES OTHER THAN JEA (SUCH AS PRIVATE SEWER COLLECTION SYSTEMS, PRIVATE LIFT STATIONS, PUMP OUT SITES AND SYSTEMS NOT MAINTAINED BY JEA) THE COVER SHALL INCLUDE "SANITARY SEWER" OMITTING THE "JEA" LOGO OR NEOPRENE GASKET.

SANITARY SEWER MANHOLE FRAME AND COVER

JANUARY 2022 PLATE S-1



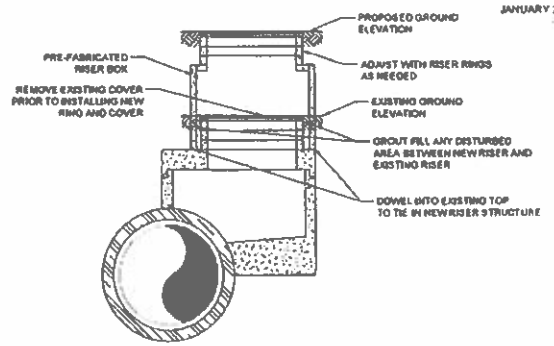
PLAN VIEW (S-3)

(FOR SECTION VIEW SEE S-2, S-3A)

NOTES

1. THE WIDE BETWEEN ALL INFLUENT FLOW CHANNELS AND EFFLUENT PIPE SHALL BE BETWEEN 6" - 12" UNLESS OTHERWISE APPROVED BY JEA.

JANUARY 2022 PLATE S-3



JANUARY 2022

MANHOLE LID RISER DETAIL

					REVISIONS

SCALE AS SHOWN
DATE
DRAWN
CHECKED
APPROVED

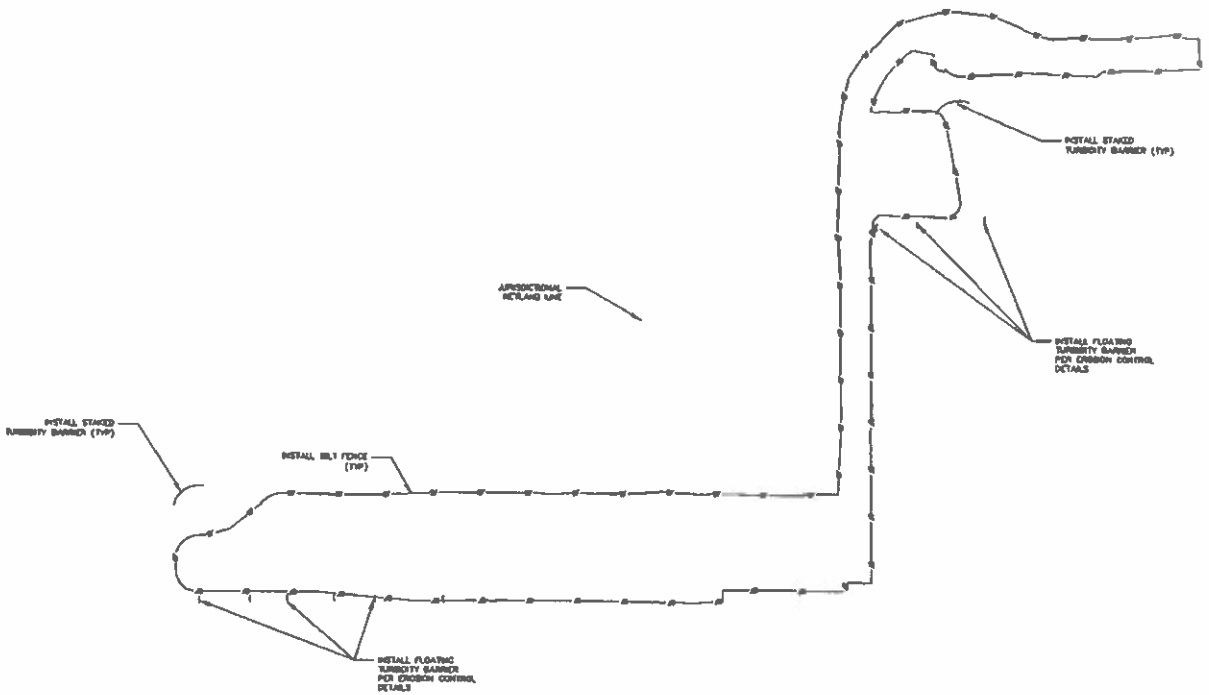
DETAILS

JACKSONVILLE FAIRGROUNDS
PHASE 2 60% SUBMITTAL

gai consultants

PROJECT NO./TASK NO.

SHEET
C509



FULL SCALE 1"=40'
HALF SCALE 1"=80'

LEGEND

SILT FENCE

TURBIDITY BARRIER

NOTE: ALL EXISTING AND PROPOSED DRAINAGE STRUCTURE NEED TO HAVE EROSION CONTROL IN PLACE DURING CONSTRUCTION

REVISIONS

SCALE AS SHOWN

DATE

DRAWN

CHECKED

APPROVED

EROSION AND SEDIMENT CONTROL PLAN

JACKSONVILLE FAIRGROUNDS PHASE 2 60% SUBMITTAL

gai consultants

PROJECT NO./DASH NO.

SHEET

C600

STORM WATER POLLUTION PREVENTION PLAN

EROSION AND SEDIMENT CONTROL NOTES

1. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING DIRT FROM TIRES OF ANY VEHICLE ON-SITE AND ADJACENT PUBLIC PAVEMENT AND TRACK IT IN THE DAILY AND TIMELY MANNER AT COMPLETION OF CONSTRUCTION.
2. THE SITE CONTRACTOR IS RESPONSIBLE FOR REMOVING THE TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES AFTER COMPLETION OF CONSTRUCTION AND ONLY THOSE AREAS NOT IN GOOD STANDING.
3. ADDITIONAL PROTECTION - ON-SITE PROTECTION IS ADDITION TO THE MORE BASIC BMP PROVIDED THAT WILL NOT PERMIT DIRT TO LEAVE THE PROJECT CONFINES DUE TO LOOSE SOIL OR ACCELERATED
4. CONTRACTOR SHALL ENSURE THAT ALL SEDIMENT STRUCTURES, INLETS, ETC. ARE CLEANED OUT AND MAINTAINED PROPERLY AT TIME OF ACCEPTANCE.
5. SODS WITH SHALL BE LAID OVER THE DITCH INLET SO THAT THE SOD EXTENDS A MINIMUM OF 1 FOOT BEYOND EACH SIDE OF THE INLET STRUCTURE. PERFORATED CLOTH OR COMPARABLE SODS HELPS SOD 1/2-INCH DIAMETER SHALL BE USED. IF MORE THAN ONE STRIP OF SODS IS NECESSARY, THE STRIPS SHALL BE STAGGERED.
6. FOOT NO. 1 GRADE AGGREGATE SHALL BE PLACED OVER THE SODS AS AN INSULATOR IN SPAN. THE DEPTH OF STONE SHALL BE AT LEAST 12 INCHES OVER THE CENTER INLET OPENING. THE STONE SHALL EXTEND BEYOND THE INLET OPENING AT LEAST 18 INCHES ON ALL SIDES.
7. IF THE STONE FILTER BECOMES CLOGGED WITH SEDIMENT SO THAT IT NO LONGER ADEQUATELY PERFORMS ITS FUNCTION, THE STONES MUST BE PULLED AWAY FROM THE INLET CLEANED AND REPLACED.
8. BALES SHALL BE DITCH NOT—BRAKE OR STRAW—AND SHALL BE ENCIRCLE AROUND THE SIDES RATHER THAN OVER AND UNDER THE BALES.
9. BALES SHALL BE PLACED LENGTHWISE IN A SINGLE ROW SURROUNDING THE INLET, WITH THE EDGE OF ADJACENT BALES PROVIDE PROTECTION.
10. THE FILTER BARRIER SHALL BE CONTAINED AND MODIFIED IN ORDER SHALL BE CLEANED OUT IN A MANNER DEPTH OF 6 INCHES AFTER THE BALES ARE STAKED. THE EXCAVATED SOIL SHALL BE MAINTAINED AND COMPACTED AGAINST THE FILTER BARRIER.
11. EACH BALE SHALL BE SECURELY ANCHORED AND HELD IN PLACE BY AT LEAST TWO STAKES OR REBARS DRIVEN THROUGH THE BALE.
12. LOOSE SYNTHETIC BALES OF HEIGHT BETWEEN BALES TO PREVENT WATER FROM ENTERING BETWEEN BALES.
13. SYNTHETIC BALE BARRIERS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL.
14. CLOSE ATTENTION SHALL BE PAID TO THE REPAIR OF DAMAGED BALES, END BALES AND UNDERCUTTING BENEATH BALES.
15. NECESSARY REPAIRS TO BARRIERS OR REPLACEMENT OF BALES SHALL BE IMPLEMENTED PROMPTLY.
16. ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE SYNTHETIC BALE BARRIER IS NO LONGER REQUIRED SHALL BE DISPOSED TO CONFORM WITH THE EXISTING GRADE, PREPARED AND SEEDED.
17. SILT FENCES AND FILTER BARRIERS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY.
18. SHOULD THE FABRIC ON A SILT FENCE OR FILTER BARRIER DECOMPOSE OR BECOME INEFFECTIVE PRIOR TO THE END OF THE EXPECTED USABLE LIFE AND THE BARRIER STILL IS NECESSARY, THE FABRIC SHALL BE REPLACED PROMPTLY.
19. SEDIMENT DEPOSITS SHOULD BE REMOVED AFTER EACH STORM EVENT. THEY MUST BE REMOVED WHEN DEPOSITS REACH APPROXIMATELY ONE-HALF THE HEIGHT OF THE BARRIER.
20. ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE SILT FENCE OR FILTER BARRIER IS NO LONGER REQUIRED SHALL BE DISPOSED TO CONFORM WITH THE EXISTING GRADE, PREPARED AND SEEDED.
21. THE STRUCTURE SHALL BE INSPECTED AFTER EACH RAIN AND REPAIRS MADE AS NEEDED.
22. SEDIMENT SHALL BE REMOVED AND THE TRAP RESTORED TO ITS ORIGINAL DIMENSIONS WHEN THE SEDIMENT HAS ACCUMULATED TO 1/2 THE DESIGN DEPTH OF THE TRAP. REMOVED SEDIMENT SHALL BE DISPOSED IN A SUITABLE AREA AND IN SUCH A MANNER THAT IT WILL NOT ERODE.
23. THE CONTRACTOR IS RESPONSIBLE FOR FOLLOWING THE SITE EROSION AND SEDIMENT CONTROL PRACTICES AS OUTLINED IN THE PLANS, SPECIFICATIONS AND ST JOHNS RIVER WATER MANAGEMENT DISTRICT SPECIFICATIONS AND CRITERIA.
24. FOR ADDITIONAL INFORMATION ON SEDIMENT AND EROSION CONTROL REFER TO "THE FLORIDA DEVELOPMENT MANUAL: A GUIDE TO SOUND LAND AND WATER MANAGEMENT" FROM THE STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION OF LOCAL CHAPTER 6.
25. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE PLACED ADJACENT TO ALL WETLAND AREAS WHERE THERE IS POTENTIAL FOR SEDIMENTATION TO BE CAUSED IN WETLANDS. SEE DETAIL SHEET FOR TYPICAL CONSTRUCTION.
26. ALL DISTURBED AREAS SHALL BE GRADED, FERTILIZED, MULCHED AND MAINTAINED UNTIL A PERMANENT VEGETATION COVER IS ESTABLISHED.
27. SOD SHALL BE PLACED IN AREAS WHICH MAY REQUIRE IMMEDIATE EROSION PROTECTION TO ENSURE ON-SITE QUALITY STANDARDS ARE MAINTAINED.
28. ANY DISTURBED FROM DEWATERING ACTIVITY SHALL BE FILTERED AND DISPOSED TO THE OVERFLOW OR A MANNER WHICH PREVENTS EROSION AND SEDIMENTATION OF SUSPENDED SOLIDS TO THE RECEIVING WATERS.
29. DEWATERED WASTE SHALL NOT EXCEED THE CAPACITY OF THE TRUCK BEFORE A CONTAINERIZE THE WASTE AREA THE ST. JOHNS RIVER WATER MANAGEMENT DISTRICT.
30. ALL DISTURBED AREAS TO BE STABILIZED WITHIN CONTRACTOR. SILT, SEDIMENT AND DEBRIS AND GRADING ALL FILL SLOPES 3:1 OR FLATTER TO REDUCE STORMS SOLID SOD.
31. ALL EROSION, SEDIMENT AND SEDIMENT CONTROL TO REMAIN IN PLACE AFTER COMPLETION OF CONSTRUCTION AND REMOVED ONLY WHEN AREAS HAVE STABILIZED.

THIS PLAN INDICATES THE MINIMUM EROSION AND SEDIMENT MEASURES REQUIRED FOR THIS PROJECT. THE CONTRACTOR IS RESPONSIBLE FOR REVISING THE APPLICABLE PLANS, INSTALLATIONS AND WATER QUALITY STANDARDS AND MAY NEED TO INSTALL ADDITIONAL CONTROLS.

THE CONTRACTOR SHALL BE REQUIRED TO REPORTED TO ALL DEVELOPMENT SERVICES DIVISION, ENGINEERING TO COMPLIANCE OF PERMIT FOR EROSION AND SEDIMENTATION CONTROL. THE COST OF THIS COMPLIANCE SHALL BE PART OF THE CONTRACT.

NOTE:
WHERE FDOT SPECS AND INDEX ARE REFERENCED, PLEASE REFER TO FDOT ROADWAY & TRAFFIC STANDARDS PLANS AND FDOT STANDARD SPECIFICATIONS FOR ROAD & BRIDGE CONSTRUCTION.

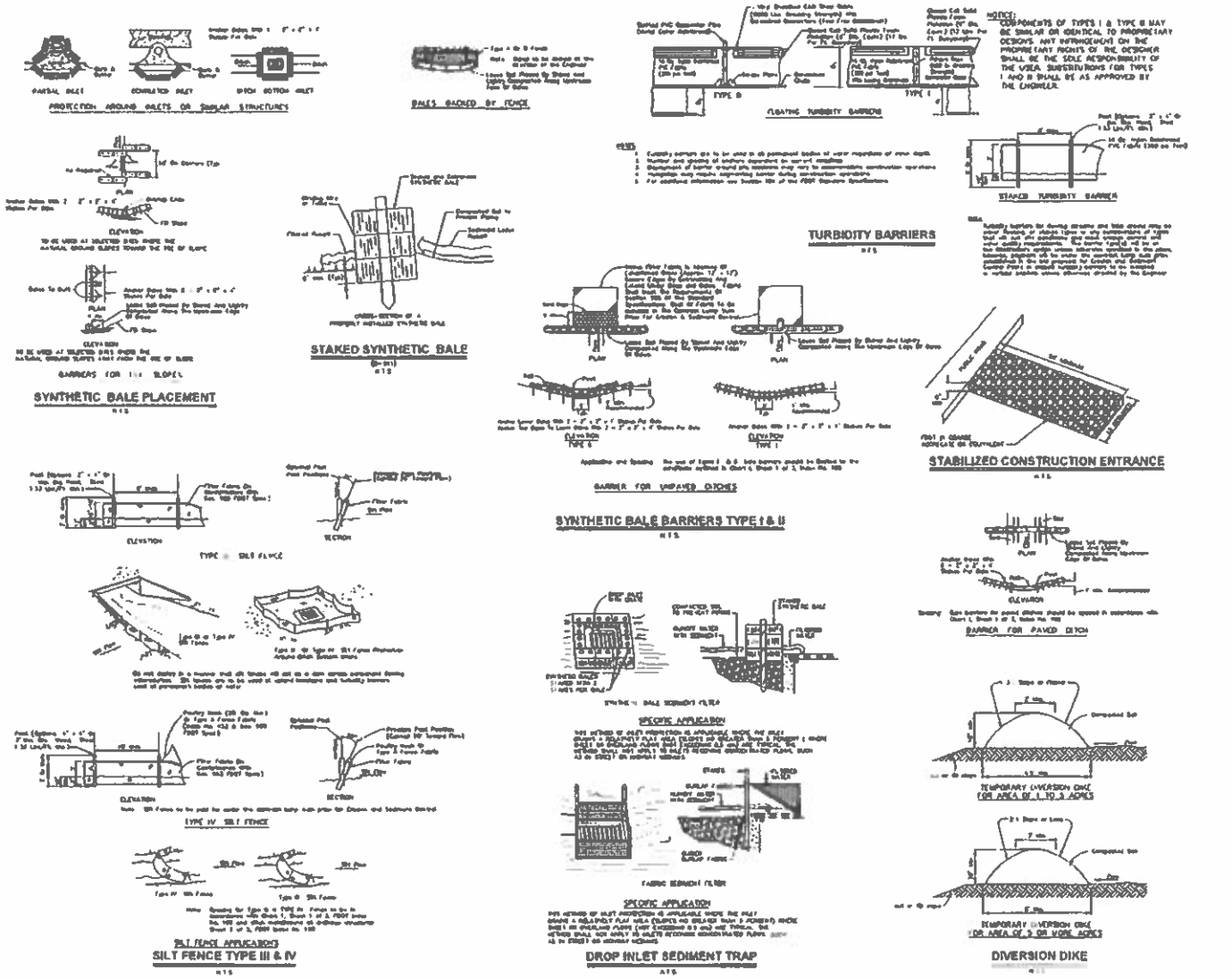


EXHIBIT D

REVISIONS					

SCALE: AS SHOWN
DATE:
DRAWN:
CHECKED:
APPROVED:

SWPPP DETAILS AND NOTES

JACKSONVILLE FAIRGROUNDS
PHASE 2 60% SUBMITTAL

gai consultants

PROJECT NO./BASIN NO.

SHEET
C700

OWNER'S REQUIREMENTS

SITE DESCRIPTION

CONTROLS

TIMING OF CONTROLS/MEASURES

CERTIFICATION OF COMPLIANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS

POLLUTION PREVENTION PLAN CERTIFICATION

CONTRACTOR'S REQUIREMENTS

GENERAL

SEQUENCE OF MAJOR ACTIVITIES:

TIMING OF CONTROLS/MEASURES

CONTROLS

CONTROLS CONT'D.

OTHER CONTROLS

INVENTORY FOR POLLUTION PREVENTION PLAN

SPILL PREVENTION

SPILL PREVENTION CONT'D.

MAINTENANCE/INSPECTION PROCEDURES

MAINT./INSP. PROCEDURES CONT'D.

CONTRACTOR'S CERTIFICATION

REVISIONS

SCALE: AS SHOWN

SWPPP DETAILS AND NOTES

JACKSONVILLE FAIRGROUNDS

PHASE 2 60% SUBMITTAL

gai consultants

PROJECT NO./DASH NO.

SHEET C701

JACKSONVILLE FAIRGROUNDS
DUVAL COUNTY, FL

STORM WATER POLLUTION PREVENTION PLAN

INSPECTION AND MAINTENANCE REPORT FORM

TO BE COMPLETED EVERY 7 DAYS AND WITHIN 24 HOURS OF A RAINFALL EVENT OF 0.25 INCHES OR MORE

INSPECTOR _____ DATE _____

INSPECTOR'S QUALIFICATIONS:

_____

_____

DAYS SINCE LAST RAINFALL: _____ AMOUNT OF LAST RAINFALL _____ INCHES

STABILIZATION MEASURES

INSPECTION AREA (DESCRIPTION OF LOCATION)	DATE SINCE LAST DISTURBED	DATE OF NEXT DISTURBANCE	STABILIZED ? (YES/NO)	STABILIZED WITH	CONDITION

STABILIZATION REQUIRED

_____

_____

TO BE PERFORMED BY _____ ON OR BEFORE _____

PAGE 1 OF 4

JACKSONVILLE FAIRGROUNDS
DUVAL COUNTY, FL

STORM WATER POLLUTION PREVENTION PLAN

INSPECTION AND MAINTENANCE REPORT FORM

STRUCTURAL CONTROLS

DATE _____

EARTH DIKES/SWALES

DIKE OR SWALE	FROM	TO	IS DIKE/SWALE STABILIZED ?	IS THERE EVIDENCE OF BREAKOUT OR OVERTOPPING

MAINTENANCE REQUIRED FOR EARTH DIKE/SWALE

_____

_____

TO BE PERFORMED BY _____ ON OR BEFORE _____

CATCH BASIN/CURB INLET/OUTFALL TURBIDITY CONTROLS

STRUCTURE/ OUTFALL	ARE TURBIDITY CONTROLS IN PLACE	ANY EVIDENCE OF CLOGGING/BREAKOUT OR BYPASSING ?	ARE TURBIDITY CONTROLS IN NEED OF REPLACING	DOES SILT NEED TO BE REMOVED FROM AROUND CONTROL

MAINTENANCE REQUIRED FOR CATCH BASIN/CURB INLETS/OUTFALLS TURBIDITY CONTROLS

_____

_____

TO BE PERFORMED BY _____ ON OR BEFORE: _____

PAGE 2 OF 4

JACKSONVILLE FAIRGROUNDS
DUVAL COUNTY, FL

STORM WATER POLLUTION PREVENTION PLAN

INSPECTION AND MAINTENANCE REPORT FORM

SEDIMENT BASIN

DEPTH OF SEDIMENT IN BASIN	DEPTH OF SEDIMENT 300 BASIN	ANY EVIDENCE OF OVERTOPPING OF THE EMBANKMENT ?	CONDITION OF OUTFALL FROM SEDIMENT BASIN

MAINTENANCE REQUIRED FOR SEDIMENT BASIN

_____

_____

TO BE PERFORMED BY _____ ON OR BEFORE: _____

OTHER CONTROLS

STABILIZED CONSTRUCTION ENTRANCE

DOES MUD/ SEDIMENT GET TRACKED ON TO ROAD ?	IS THE GRAVEL CLEAN OR IS IT FULLS WITH SEDIMENT	DOES ALL VEHICLE USE THE STABILIZED ENTRANCE TO LEAVE THE SITE ?	IS THE CULVERT BENEATH THE ENTRANCE CONTAINS CONTAMINANTS (IF APPLICABLE)

MAINTENANCE REQUIRED FOR STABILIZED CONSTRUCTION ENTRANCE.

_____

_____

TO BE PERFORMED BY _____ ON OR BEFORE: _____

PAGE 3 OF 4

JACKSONVILLE FAIRGROUNDS
DUVAL COUNTY, FL

STORM WATER POLLUTION PREVENTION PLAN

INSPECTION AND MAINTENANCE REPORT FORM

CHANGES REQUIRED TO THE POLLUTION PREVENTION PLAN

_____

_____

REASONS FOR CHANGES:

_____

_____

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHERED AND EVALUATED THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.

SIGNATURE: _____

DATE _____

PAGE 4 OF 4

STORM WATER POLLUTION PREVENTION PLAN

NOTE TO CONTRACTOR

THIS IS THE CONTRACTOR'S CERTIFICATION REQUIRED BY THE EPA'S NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (NPDES) GENERAL PERMIT FOR CONSTRUCTION SITES OF 1 ACRE OR MORE. THIS CERTIFICATION MUST BE COMPLETED IMMEDIATELY AFTER YOUR CONTRACT IS AWARDED. SUCCESSFUL COMPLETION OF THIS FORM IS REQUIRED BY THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION. THIS FORM SHALL BE REMOVED FROM THE PLAN SET AND COMPLETED AS NOTED BY THE CONTRACTOR

SWPPP DETAILS AND NOTES

JACKSONVILLE FAIRGROUNDS
PHASE 2 60% SUBMITTAL

SHEET C702

PROJECT NO/DASH: 00

GAI CONSULTANTS
INC.

AS SHOWN

REVISIONS

EXHIBIT D

COJ DB – Fairgrounds Relocation Project

Phase 3 – 30% Construction Plans

JACKSONVILLE FAIRGROUNDS PHASE 3

13611 NORMANDY BLVD
Jacksonville, FL 32221
FOR

CITY OF JACKSONVILLE

214 N HOGAN ST
Jacksonville, FL 32202

Prepared By:

gai consultants
EB 8951
12574 FLAGLER CENTER BLVD.
SUITE 202
JACKSONVILLE,
FLORIDA 32256
PHONE (904) 363-1110

VICINITY MAP PROJECT LOCATION

Sheet Index	
C000	Cover Sheet
C001	General Notes
C002	Pre-Development Plan
C003	Post-Development Plan
C201-C204	Grading Plan
C600	Erosion Control Plan
C700-C703	SWPPP

DESCRIPTION	DATE
INITIAL SJRWMD CLEARING PERMIT	4/03/23

LANDSCAPE & HARDSCAPE:

GEOTECH:
MICHEL & ASSOCIATES ENGINEERING, PLLC
GEOTECHNICAL CONSTRUCTION MATERIALS TESTING
8930 WESTERN WAY, SUITE 12
JACKSONVILLE, FLORIDA 32256
PHONE 904 519-9990
FAX 904-519-9997

SURVEYOR:
GAI CONSULTANTS INC
EB 8951
12574 FLAGLER CENTER BLVD
JACKSONVILLE, FLORIDA 32256
PHONE 904-363-1110

GENERAL PROJECT INFORMATION

GENERAL	
City Development Number	6216.200
Concurrency Application Number	[illegible]
Property Appraiser Number (RE #)	[illegible]
Zoning Designation	PUD
Zoning Application(s) (if any)	-
PUD Ordinance Number	2021-0736-E
FLUM = Community = Parcel	MIX-CRSC
Flood Zones (Show on Plans)	X
Base Flood Elev (Show on Plans)	N/A
Vertical Datum Used for Project	NAVD 88
JEA Availability Number	
SUBDIVISION	
PUD Number	-
City or Private Inspection	PRIVATE
Public or Private Roads	PRIVATE
Subdivide (Yes) (Not Required)	N/A
NON-SUBDIVISION	
North American Industry Classification System (NAICS)	-
Impervious Area (Sq. Ft.)	-

JEA AVAILABILITY NUMBER:
PLANS DESIGNED UNDER 2022 JEA STANDARD DETAILS

SJRWMD CLEARING PERMIT SET

REVISIONS

SCALE AS SHOWN
DATE:
DRAWN:
CHECKED:
APPROVED:

COVER SHEET

JACKSONVILLE FAIRGROUNDS
PHASE 3 SJRWMD CLEARING PERMIT SET

gai consultants

PROJECT NO /DRAWN NO:

SHEET
C000

GENERAL NOTES

GENERAL NOTES (CONTINUED)

AS-BUILT REQUIREMENTS

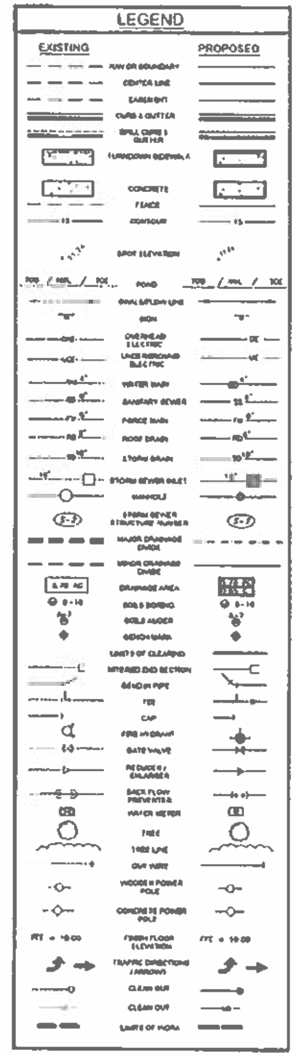
DRAINAGE NOTES

ROADWAY NOTES

UTILITY NOTES

UTILITY NOTES (CONTINUED)

TESTING NOTES



REVISIONS

SCALE AS SHOWN

GENERAL NOTES

JACKSONVILLE FAIRGROUNDS
PHASE 3 SJRWMD CLEARING PERMIT SET

gai consultants

PROJECT NO./BASIN NO.

SHEET C001

LEGEND

- MAJOR BASIN DIVIDE
- To PATH
- WETLAND

REVISIONS

SCALE: AS SHOWN

DATE:

DRAWN:

CHECKED:

APPROVED:

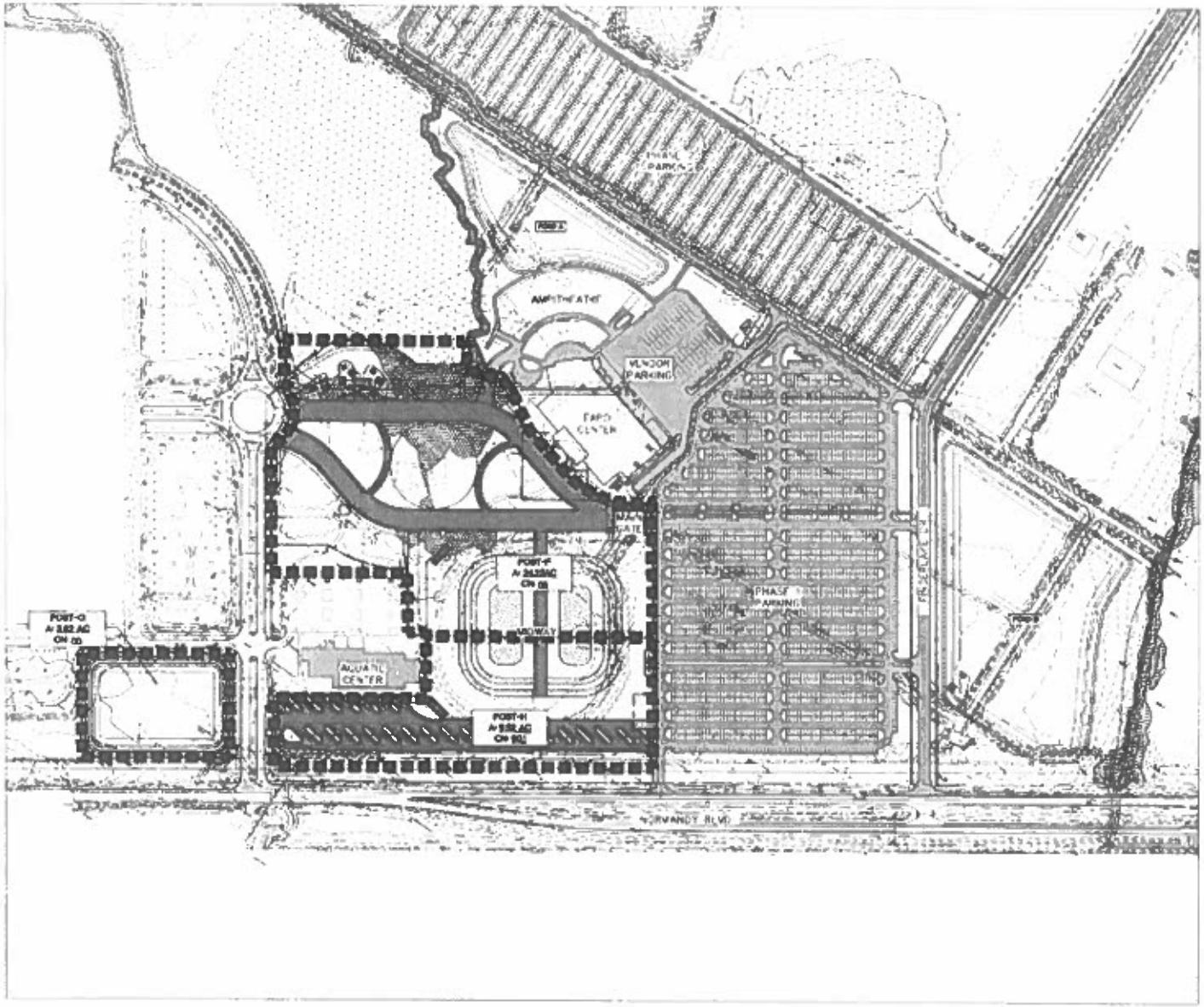
PRE DEVELOPMENT BASIN

JACKSONVILLE FAIRGROUNDS
PHASE 3 SJRWMD CLEARING PERMIT SET

gai consultants

PROJECT NO./DASH NO.

SHEET
C002

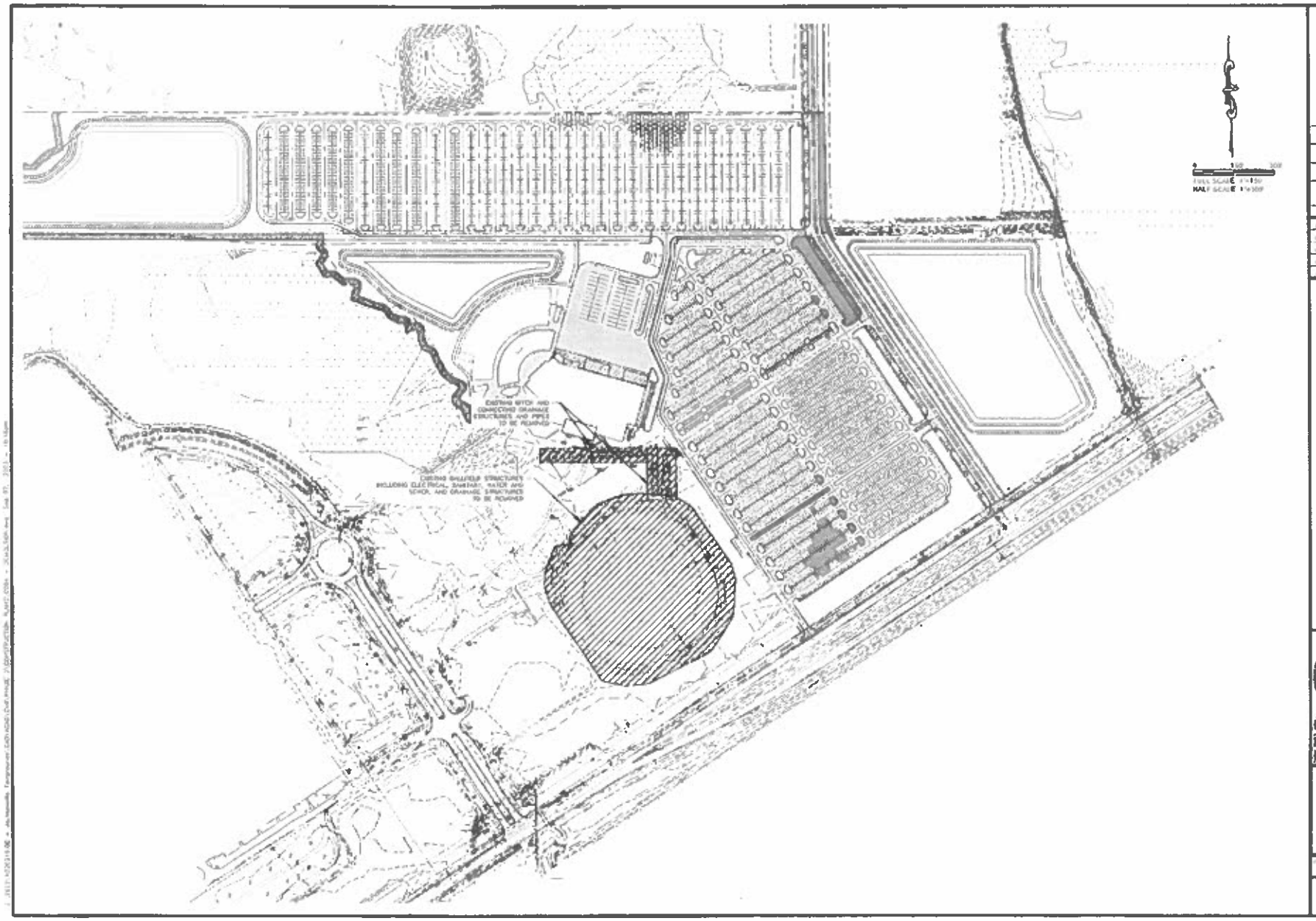


LEGEND

- MAJOR BASIN DIVIDE
- ½ PATH
- WETLAND

qal consultants

EXHIBIT D



DEMOLITION PLAN

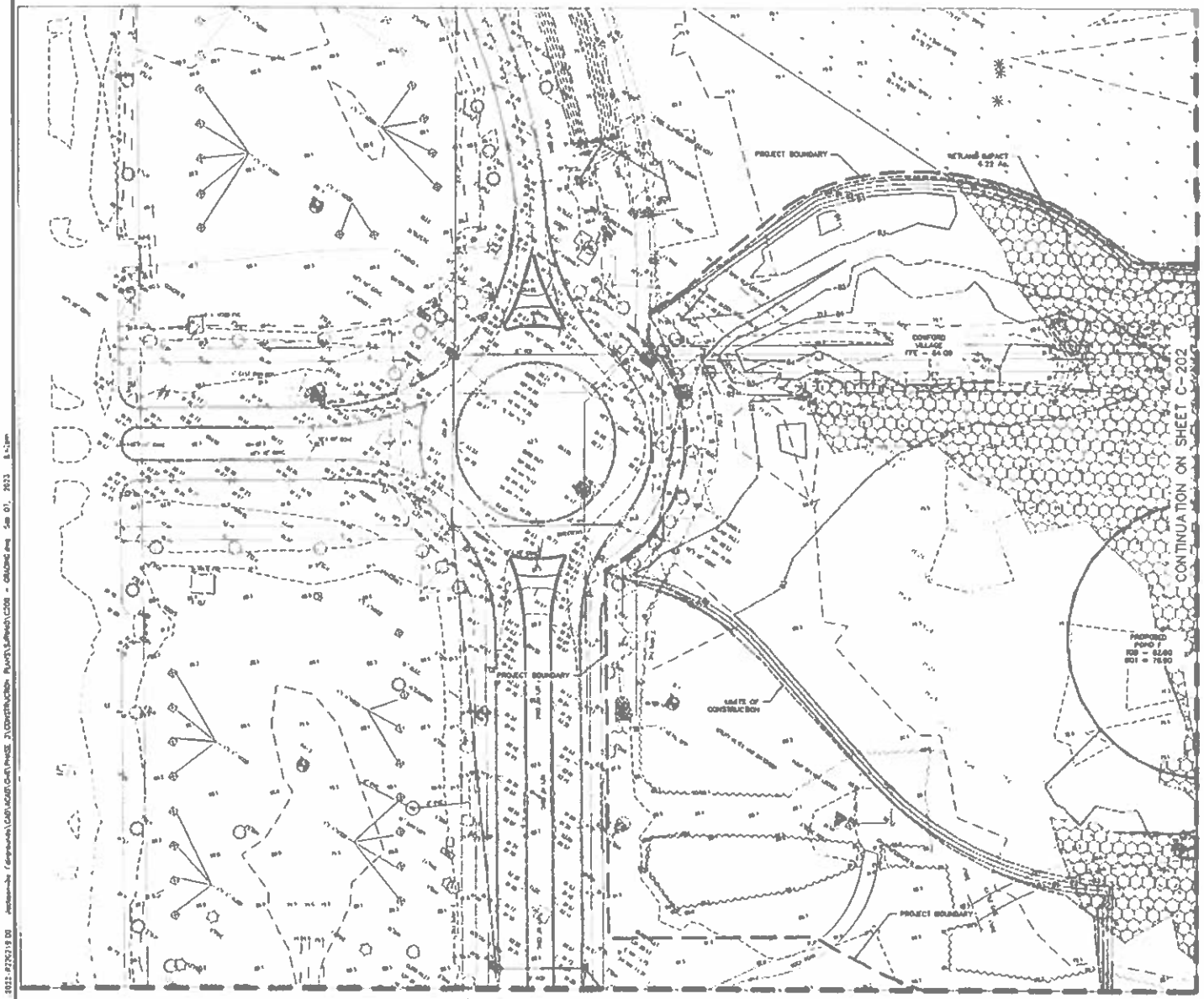
JACKSONVILLE FAIRGROUNDS
PHASE 3 60% SUBMITTAL

gai consultants

PROJECT NO./DASH NO.

C004

EXHIBIT G

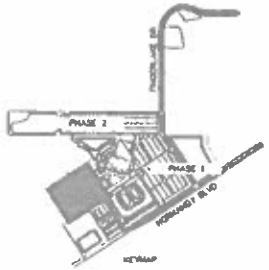


FULL SCALE 1"=40'
HALF SCALE 1"=80'

LEGEND

- PROPERTY LINE
- RIGHT OF WAY
- EASEMENT
- 100 PROPOSED CONTOUR
- 100 EXISTING CONTOUR
- PROJECT BOUNDARY
- DITCH IMPACT
- WETLAND IMPACT

WETLAND
WETLAND BUFFER



REVISIONS

SCALE: AS SHOWN
DATE:
DRAWN
CHECKED
APPROVED

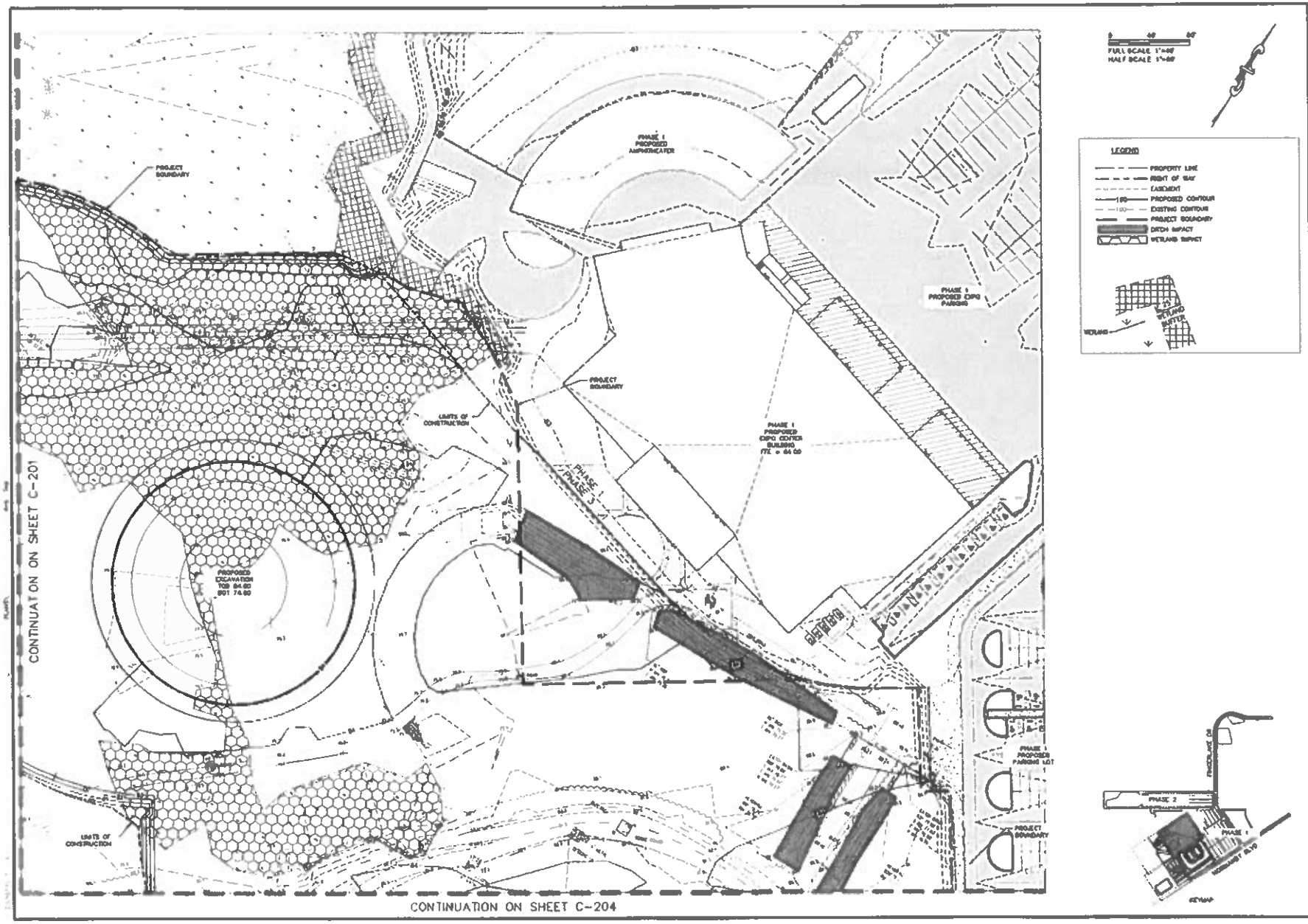
GRADING AND DRAINAGE PLAN

JACKSONVILLE FAIRGROUNDS
PHASE 3 SJRWMD CLEARING PERMIT SET

gai consultants

PROJECT NO./BASIN NO.

SHEET
C201



SCALE AS SHOWN

DATE

DRAWN

CHECKED

APPROVED

GRADING AND DRAINAGE PLAN

JACKSONVILLE FAIRGROUNDS
PHASE 3 SJRWMD CLEARING PERMIT SET

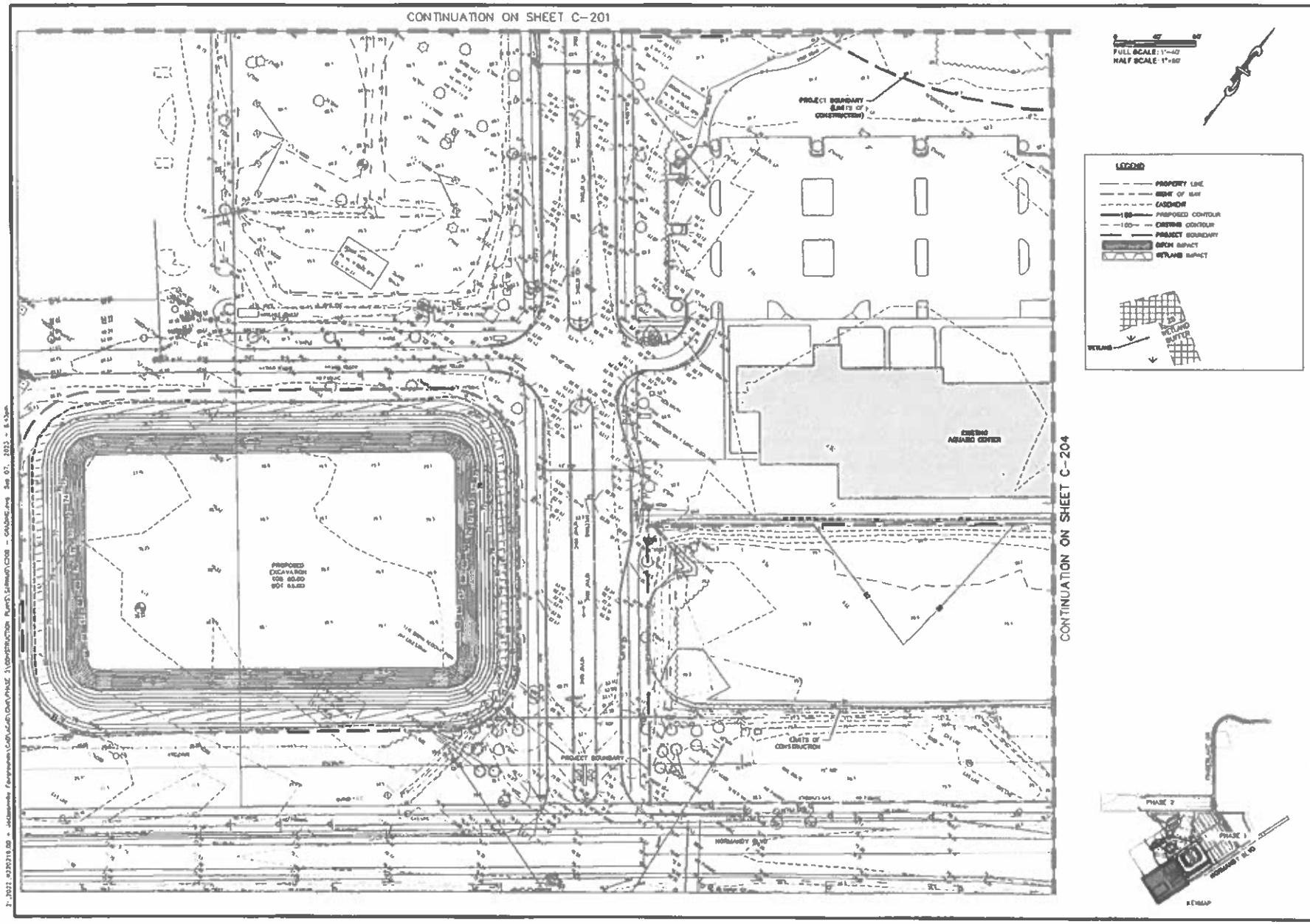
gai consultants

PROJECT NO./DASH NO.

SHEET

C202

EXHIBIT D



REVISIONS					

SCALE AS SHOWN

DRAWN

CHECKED

APPROVED

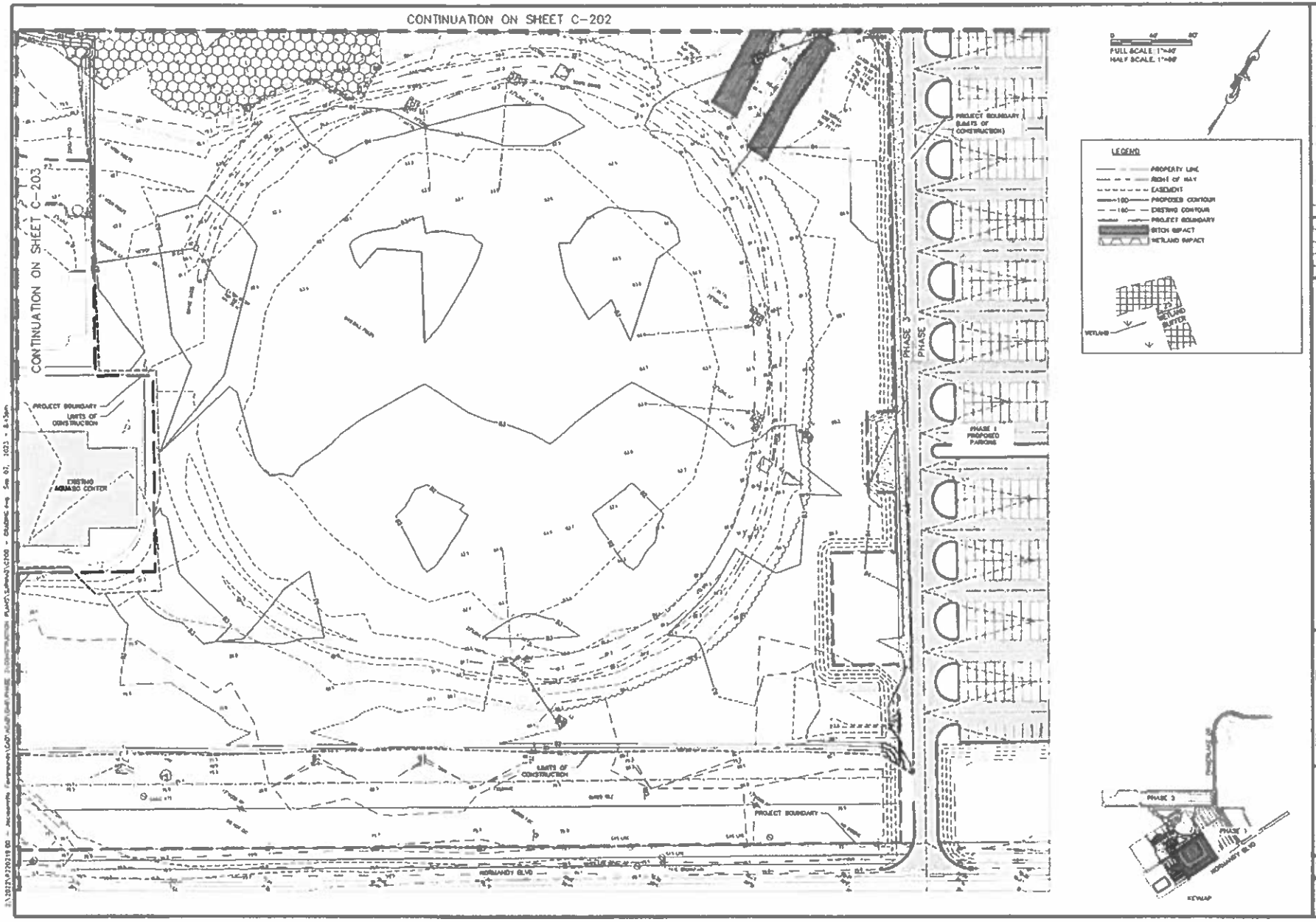
GRADING AND DRAINAGE PLAN

JACKSONVILLE FAIRGROUNDS
PHASE 3 SJRWMD CLEARING PERMIT SET

gai consultants

PROJECT NO./DASH NO.

SHEET
C203



SCALE AS SHOWN

DATE

DRAWN

CHECKED

APPROVED

REVISIONS

GRADING AND DRAINAGE PLAN

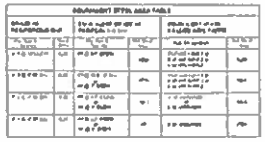
JACKSONVILLE FAIRGROUNDS
PHASE 3 SJRWMD CLEARING PERMIT SET

gai consultants

PROJECT NO./DASH NO.

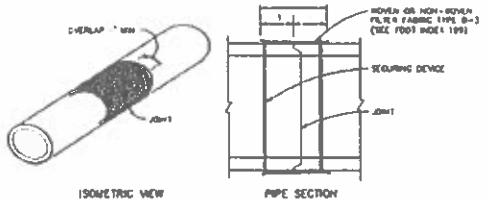
SHEET

C204



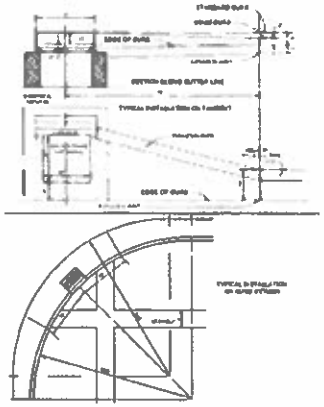
NOTES FOR MANHOLES & INLETS

N.T.S.



FILTER FABRIC JACKET

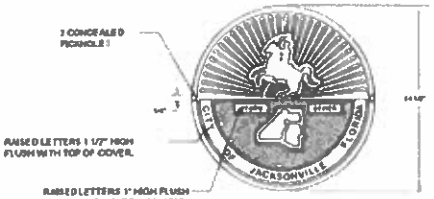
N.T.S.



STANDARD CURB INLET INSTALLATION

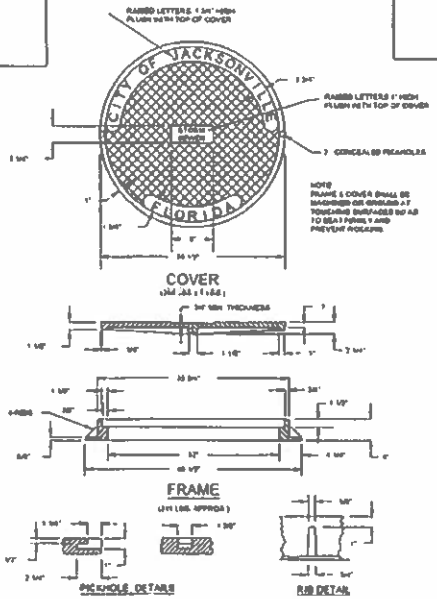
N.T.S.

COVER DETAIL



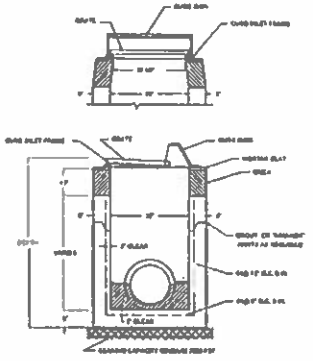
MANHOLE COVER DETAIL

N.T.S.



STORM SEWER MANHOLE COVER & FRAME STORM

N.T.S.



STORM SEWER CURB INLET

N.T.S.

REVISIONS

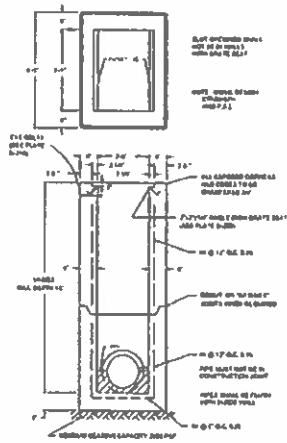
DETAILS

JACKSONVILLE FAIRGROUNDS
PHASE 3 SURWND CLEARING PERMIT SET

gai consultants

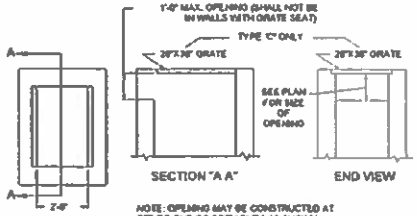
PROJECT NO /DASH NO

SHEET
C500



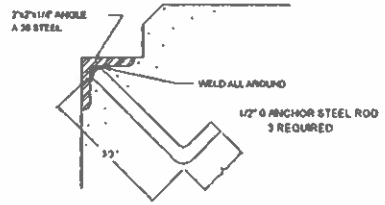
STORM SEWER TYPE "C" INLET
N.T.S.

Note
All Type "C"& "E" inlets with slots deeper than 6" shall be constructed with a horizontal bar(s) maximum spacing 6", 1" diameter Galv. pipe embedded 2" in pre-cast or other approved method.



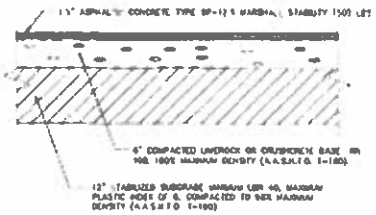
NOTE: OPENING MAY BE CONSTRUCTED AT EITHER END OR BOTH ENDS AS SHOWN ON PLANS TYPE "C" OR "E"

DETAILS OF OPENINGS IN DITCH BOTTOM INLETS

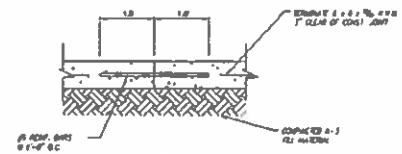


GRATE SEAT DETAIL

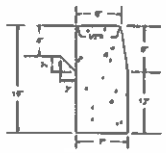
DETAIL FOR TYPE "C & E" INLET
N.T.S.



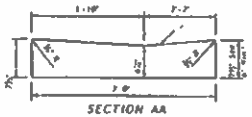
TYPICAL PAVING SECTION (ASPHALT)
N.T.S.



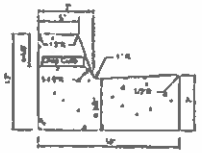
CONSTRUCTION JOINT
N.T.S.



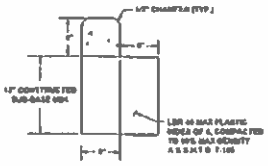
HEADER CURB
N.T.S.



SECTION AA
VALLEY GUTTER
N.T.S.



STANDARD CURB AND GUTTER
N.T.S.

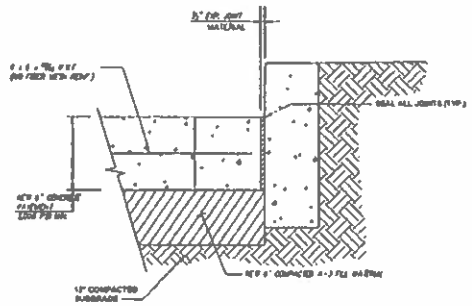


TYPICAL RIBBON CURB
N.T.S.

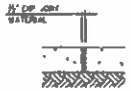
NOTES:

1. FOR BACKED PLACED ITEMS, VARIOUS AND ALTERNATE METHODS IS APPROVED BY THE ENGINEER. CONTRACTION JOINTS SHALL BE SAWED. THE JOINTS SHALL BE SAWED AS SOON AS THE CONCRETE HAS HARDENED TO THE DEPTHS THAT EXCESSIVE RAVELING WILL NOT OCCUR AND BEFORE UNCONTROLLED DIAGONAL CRACKING BEGINS.
2. CONTRACTION JOINTS SHALL BE SPACED AT INTERVALS OF TEN (10) FEET EXCEPT WHERE A LESSER INTERVAL IS REQUIRED FOR ALIGNMENT, BUT NO SECTION SHALL BE LESS THAN FOUR (4) FEET IN LENGTH.
3. EXPANSION JOINTS SHALL BE CONSTRUCTED AT ALL RADIUS POINTS, AND AT OTHER LOCATIONS INDICATED IN THE PLANS. THEY SHALL BE LOCATED AT INTERVALS OF 240 FEET BETWEEN OTHER EXPANSION JOINTS, ENDS OF A RUN AND BETWEEN FIXED LOADS THAT EXCEED THE TIME LIMITS AND PRECISION SPECIFIED. THE JOINTS SHALL BE AS SHOWN IN INDEX.

CURB AND GUTTER DETAILS
N.T.S.

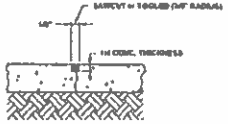


STANDARD CONCRETE PAVEMENT SECTION
N.T.S.



CONCRETE EXPANSION JOINT DETAIL
N.T.S.

TYPICAL SIDEWALK SECTION
N.T.S.



NOTE: JOINTS SHALL BE CONTRACTED NO LATER THAN 12 HRS AFTER CONCRETE IS PLACED

CONCRETE CONTRACTION JOINT
N.T.S.

REVISIONS

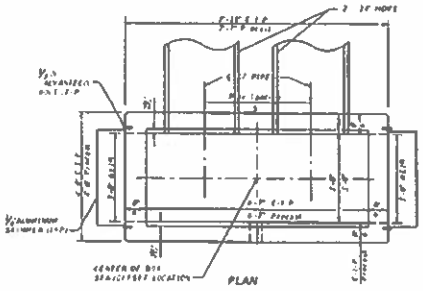
DETAILS

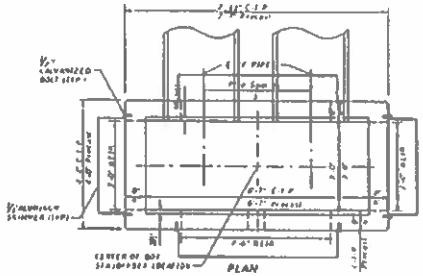
JACKSONVILLE FAIRGROUNDS
PHASE 3 SJRWMD CLEARING PERMIT SET

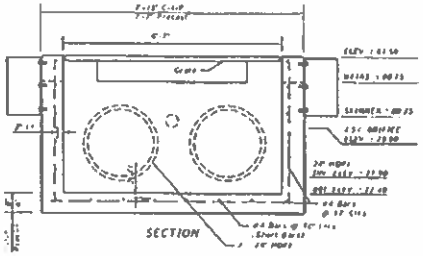
gai consultants

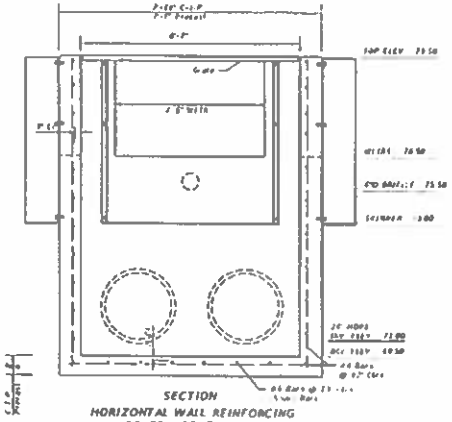
PROJECT NO./DASH NO.

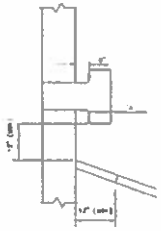
SHEET
C501











ORIFICE DETAIL

CS	INLET TYPE	'A'	'B'
CS-1	H	79.90	6.5'±
CS-2	H	75.50	

HORIZONTAL WALL REINFORCING SCHEDULES (TABLE 4)

[illegible]	SCHEDULE	[illegible]	MAX SPACING BARS	MAX SPACING WIRE
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

TYPE H (CS-1) POND A OUTFALL STRUCTURE

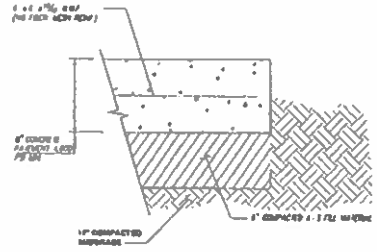
Recommended Maximum Pipe Size
[illegible]

HORIZONTAL WALL REINFORCING SCHEDULES (TABLE 4)

[illegible]	SCHEDULE	[illegible]	MAX SPACING BARS	MAX SPACING WIRE
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

TYPE H (CS-2) POND B2 OUTFALL STRUCTURE

Recommended Maximum Pipe Size
[illegible]



HEAVY DUTY CONCRETE PAVEMENT SECTION

N.T.S.

SCALE: AS SHOWN
DATE
DRAWN
CHECKED

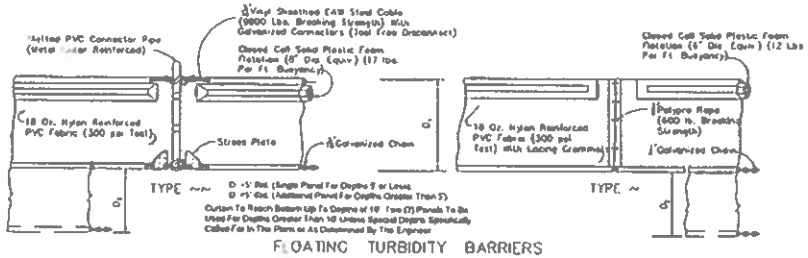
DETAILS

JACKSONVILLE FAIRGROUNDS
PHASE 3 SJRWMD CLEARING PERMIT SET

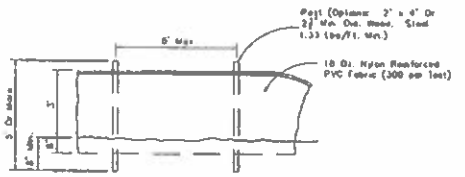
gai consultants

PROJECT NO /DASH NO

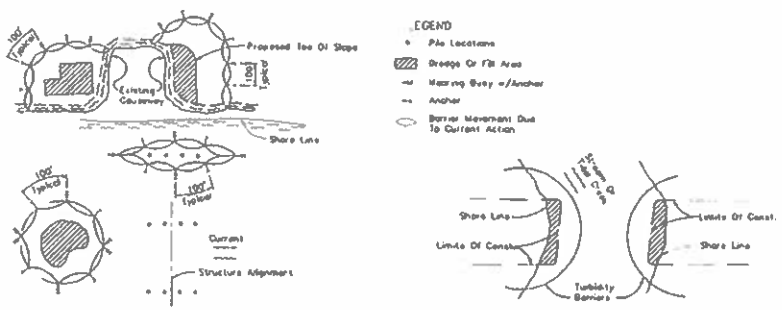
SHEET
C502



FLOATING TURBIDITY BARRIERS



STAKED TURBIDITY BARRIER



NOTES:

1. Turbidity barriers are to be used in all permanent bodies of water regardless of water depth
2. Number and spacing of anchors dependent on current velocities
3. Deployment of barrier around pile sections may vary to accommodate construction operations.
4. Navigation may require segmenting barrier during construction operations

Note:
Turbidity barriers for flowing streams and tidal creeks may be either floating, or staked types or any combinations of types that will suit site conditions and meet erosion control and water quality requirements. The barrier type(s) to be at the Contractors option unless otherwise specified in the plans, however payment is to be under the pay item(s) established in the plans for Floating Turbidity Barrier and/or Staked Turbidity Barrier. Posts in staked turbidity barriers to be installed in vertical position unless otherwise directed by the Engineer

TURBIDITY BARRIER APPLICATIONS

TURBIDITY BARRIERS

N.T.S.

WALL DESIGNS – RECTANGULAR STRUCTURES

VERTICAL REINFORCING		HORIZONTAL REINFORCING	
WALL DEPTH	SCHEDULE	WALL DEPTH	SCHEDULE
SIZE: 3'-0"			
21.17'-40'	A	21.17'-40'	B
SIZE: 4'-0"			
21.17'-40'	A	21.17'-40'	B
SIZE: 5'-0"			
21.17'-40'	A	21.17'-33'	B
		33'-40'	C
SIZE: 6'-0"			
21.17'-40'	A	21.17'-22'	B
		22'-40'	C
SIZE: 7'-0"			
21.17'-40'	A	21.17'-15'	B
		15'-25'	C
		25'-40'	D
SIZE: 8'-0"			
21.17'-40'	A	21.17'-11'	B
		11'-19'	C
		19'-28'	D
		28'-40'	F
SIZE: 9'-0"			
21.17'-40'	A	21.17'-15'	C
		15'-22'	D
		22'-40'	F

GENERAL NOTES

1. Slab reinforcement as appropriate for top, intermediate, and bottom slabs.
2. Slab depth is measured from finished grade to top of slab
3. Wall design depth is measured to the top of the bottom slab for beams and to the top of the intermediate slab for risers.
4. Wall height is the distance between top of lower slab to bottom of upper slab

REINFORCING SCHEDULE

SCHEDULE	GRADE 60 STEEL OR 65 KSI (WIRE FABRIC) as $^2/ft$
A	0.20
B	0.24
C	0.37
D	0.53
E	0.73
F	1.06
G	1.45

WALL DESIGNS RECTANGULAR STRUCTURES

N.T.S.

REVISIONS

SCALE AS SHOWN

DATE

DRAWN

CHECKED

APPROVED

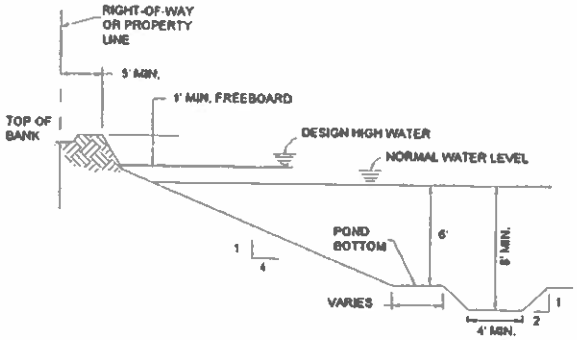
DETAILS

JACKSONVILLE FAIRGROUNDS
PHASE 3 SJRWMD CLEARING PERMIT SET

gai consultants

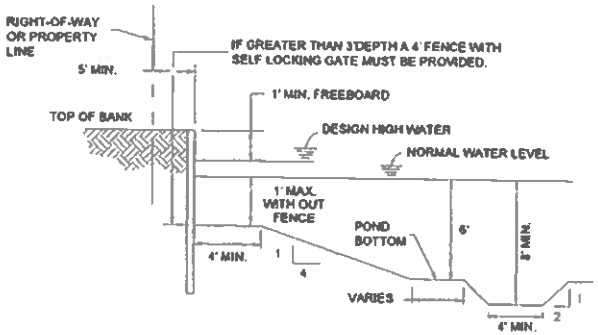
PROJECT NO./DASH NO.

SHEET
C503



CASE 2

WET DETENTION POND DETAIL

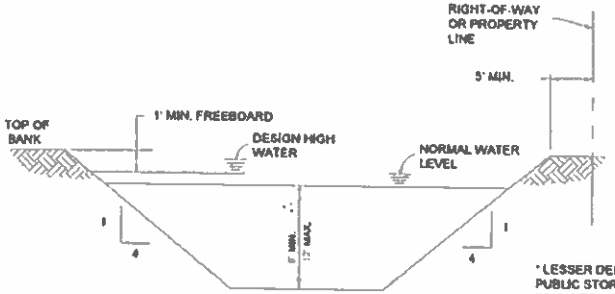


CASE 3

WET DETENTION POND DETAIL

DETENTION POND DETAIL CASE 2 & 3

N.T.S.



STANDARD DETENTION POND DETAIL

PREFERRED OPTION

* LESSER DEPTHS ARE ACCEPTABLE IF PUBLIC STORMWATER INFLOWS ARE NOT INVOLVED. THIS ALSO APPLIES TO PLATES D-1003, AND D-1004.

** FOR INTERCONNECTIONS OF DETENTION AREAS WITH PUBLIC STORMWATER INFLOWS, THE INTERCONNECTING PORTIONS MAY BE APPROVED FOR LESSER DEPTH WITH JUSTIFICATION ON A CASE BY CASE BASIS. ABSOLUTE MINIMUM DEPTH WILL BE 4.0 FEET.

DETENTION POND DETAIL CASE 1

N.T.S.

REVISIONS

SCALE AS SHOWN

DATE

DRAWN

CHECKED

DETAILS

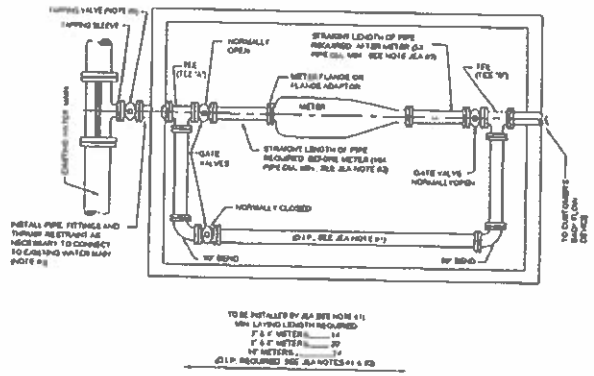
JACKSONVILLE FAIRGROUNDS
PHASE 3 SJRWMD CLEARING PERMIT SET

gai consultants

PROJECT NO./DASH NO.

SHEET

C504



CONTRACTOR NOTES:

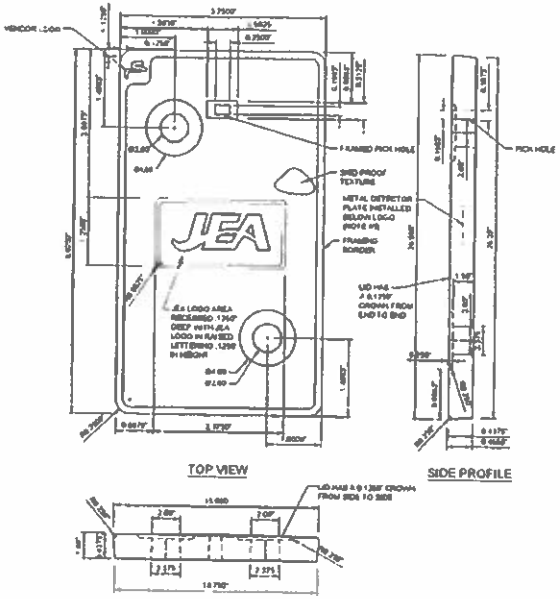
1. FOR "TAP-IN-VE" INSTALLATIONS: THE CONTRACTOR SHALL CUT A TAP AND INSTALL THE PIPE OF D.I.P. BETWEEN TAPPING VALVE AND JEA PROVIDED AN UNSUPPORTED PIPE LENGTH WITH A MINIMUM LAYING LENGTH AS SHOWN ABOVE FOR THE METER BOX AND BY PASS PIPING. THE FINISHED GRADE ABOVE THE PROPOSED METER VAULT SHALL BE FLAT. CONTRACTOR SHALL PROVIDE METER BOX, JEA WILL INSTALL METER BOX AND METER ASSEMBLY, INCLUDING METER BYPASS BALL VALVES AND ANTI-SCALD PIPE, FROM THE ALL THE SAME WELL.
2. FOR "FULL-TAP" METER ASSEMBLY: JEA WILL PROVIDE AND INSTALL THE TAP, METER BOX AND ALL OF THE ABOVE PIPING AS THEY THE SAW.
3. FOR BOX DETAILS SEE PLATES W-7 AND W-4.
4. ALL PROVIDED PIPE AND FITTINGS TO BE SAME SIZE AS METER, IF VARYING FROM PIPE.
5. MECHANICAL RETAINER GLAND OR STRAPPED OR MEGA LUGS SHALL BE UTILIZED TO RETAIN ALL JOINTS. THE USE OF THRUST BLOCKS TO HOOD ANCHOR BELOW REQUIRED SHALL BE USED IF APPLICABLE APPROVED BY JEA MANAGEMENT.
6. PIPE FROM TAP TO MAIN LINE SHALL BE RESTRAINED.
7. MINIMUM COVER OF LARGE METER SHALL BE 30" FROM TOP OF PIPE TO GRADE.
8. LOCATING PIPING REQUIRED FROM EXISTING WATER MAIN TO METER BOX. SEE PLATE W-4.
9. FOR METERS LARGER THAN OF SIZE, PLEASE CONTACT JEA METER SHOP FOR ADDITIONAL REQUIREMENTS.
10. EACH SERVICE PIPE MAIN POTABLE OR FIRE ETC. SHALL INCLUDE A REPAIRS ISOLATION VALVE (TAPPING VALVE OR GATE VALVE, BELOW GROUND TYPE) LOCATED PRIOR TO THE "A", AND UNINTENDED FIRE MAIN SERVICES SHALL INCLUDE A REPAIR ISOLATION VALVE (TAPPING VALVE OR GATE VALVE, BELOW GROUND TYPE).
11. FOR TYPICAL SHORT OLD INSTALLATION, SEE PLATE NO. W-4.
12. SERVICE SIZE SHALL BE SAME AS THE METER SIZE.

JEA NOTES:

1. ALL POTABLE PIPING BETWEEN PIPE FITTINGS, TEE "A" AND TEE "B" SHALL BE DUCTILE IRON CLASS 150 D.I.P., INCLUDING BY-PASS PIPING.
2. ALL POTABLE VALVES AND FITTINGS TO BE DUCTILE IRON MECHANICAL JOINT.
3. MINIMUM LENGTH OF TEN (10) PIPE DIAMETERS OF STRAIGHT PIPE TO BE PLACED ON EACH SIDE OF METER AND FIVE (5) PIPE DIAMETERS OF STRAIGHT PIPE TO BE INSTALLED ON ONLY ONE SIDE OF METER.
4. ALL METERS SHALL INCLUDE REQUIRED A TEST TEE TO BE INSTALLED WHERE THE METER AND VALVE ON OPPOSITE SIDE OF METER.

WATER METER INSTALLATION DETAILS
3" - 20" METERS

JANUARY 2022 PLATE W-6

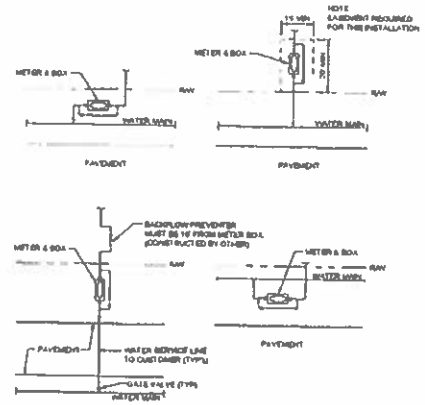


NOTES:

1. ALL DIMENSIONS ARE IN INCHES.
2. COLOR SHALL BE OFF-WHITE, HIGH-FROST, SAND TEXTURED WITH FINISH.
3. ALL TOPS SHALL MEET AASHTO H-20 LOAD RATING.
4. THE LID SHALL BE CONTROLLED BY COLLECT TECHNOLOGY INC AND SENSING METERING SYSTEMS TO BE NO COMPATIBLE WITH THE SENSUS USA.
5. METAL DETECTOR PLATE SHALL BE DETECTABLE BY JEA MAGNETIC LOCATE EQUIPMENT.

WATER METER BOX POLYMER CONCRETE COVER
MODEL No. 65 - TWO HOLE

JANUARY 2022 PLATE W-4A



NOTES:

1. THE SKETCHES ABOVE ARE SUGGESTIONS FOR SOME TYPICAL LARGE METER (1" AND LARGE) AND METERS INSTALLATIONS. ACTUAL INSTALLATIONS WILL VARY ACCORDING TO FIELD CONDITIONS (REQUIREMENTS). FOR OTHER LOCATION SPECIFICATIONS SEE PLATE NOS. W-1 & W-3.
2. THE METER WATER BOX SHALL BE CO-POLYMER MATERIAL. IF THE BOX IS LOCATED IN A DRIVEWAY OR SIDEWALK THE BOX SHALL BE CONCRETE (WITH HEAVY-DUTY H-20 CAPACITY) WITH METAL GRATED BOXES TOP GRADE LOCATION DRIVEWAY OR SIDEWALK MUST BE APPROVED BY JEA PRIOR TO CONSTRUCTION.
3. FOR TYPICAL BOX INSTALLATION DETAILS SEE PLATE NO. W-4 THRU W-6.
4. FOR TYPICAL SHORT OLD INSTALLATION SEE PLATE NO. W-4.

LARGE WATER METER INSTALLATIONS

JANUARY 2022 PLATE W-6

REVISIONS				

SCALE AS SHOWN
DATE
DRAWN
CHECKED
APPROVED

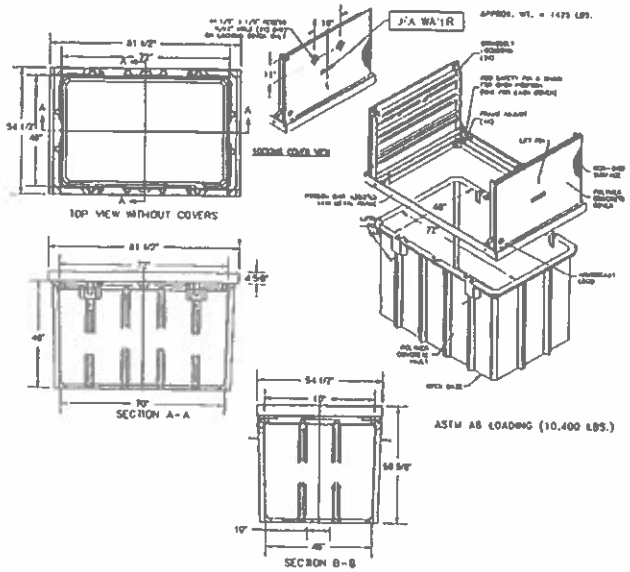
DETAILS

JACKSONVILLE FAIRGROUNDS
PHASE 3 SJRWMD CLEARING PERMIT SET

gai consultants

PROJECT NO./DASH NO

SHEET
C505

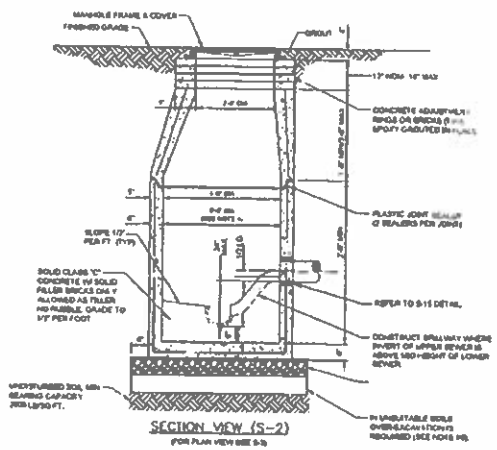


NOTES:

1. THE DIMENSIONS SHOWN ARE FOR A STANDARD 48" WIDE BY 72" LONG BY 48" DEEP BOX, CONTAINING WATER ACCORDING TO METER SIZE & TYPE, SEE PLATE W-4. ALL DIMENSIONS ARE SHOWN IN INCHES.
2. CONCRETE OR ASPHALT SLOPE, NO SCALE.
3. GRADE TO SLOPE AWAY FROM METER BOX.
4. DO NOT INSTALL METER BOXES WHERE SUBJECT TO FLOODING.
5. LOCATION MARKING REQUIRED, SEE DETAIL W-4.
6. THE LARGE BOXES REQUIRE TWO 2" MIN SIZED HOLES TO 14" MINIMUM.
7. A 4" THICK CONCRETE BOTTOM SHALL BE CONSTRUCTED PLACING THE BOX INSTALLATION.

48" x 72" x 48" CO-POLYMER WATER METER BOX 4" & 6" METERS

JANUARY 2022 PLATE W-7A



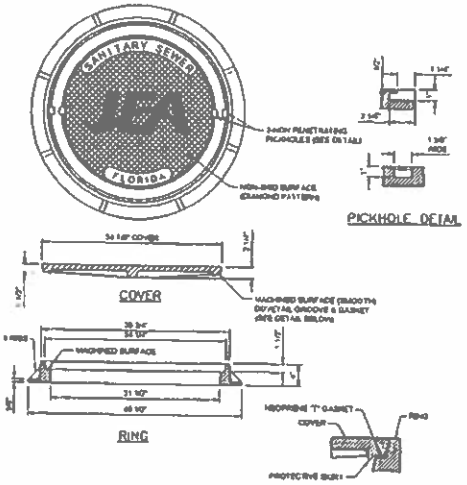
SECTION VIEW (S-2)
(FOR PLAN VIEW SEE S-3)

NOTES:

1. PRECAST MANHOLE SECTIONS TO BE MADE AS PER IN ACCORDANCE WITH THE LATEST SECTIONS OF A.S.T.M. C-478 WITH NO BLOCKS. TYPE OF CONCRETE ALL LIFTING HOLES AND INVERT SEE PLATE S-3 SHALL BE FILLED WITH NON-SHRINK GROUT AND COATED WITH BITUMINOUS WATERPROOFING MATERIAL.
2. THE INTERIOR AND EXTERIOR OF MANHOLE AND ADJACENT AREA SHALL BE CLEAN AND COATED OF BITUMINOUS WATERPROOFING MATERIAL.
3. IF BRICKS (1) LAYER IS TO BE INSTALLED ON BRING SURFACE OF MANHOLE, THE BITUMINOUS WATERPROOFING MATERIAL SHALL BE OMITTED ON THE BRICKS.
4. ALL "OUT" MANHOLE COLLARS TO METERS SHALL BE 2 DIA WITH SPECIFIED LAYER.
5. ALL MANHOLE JOINT & BELOW THE TOP COVER SEE FROM SHALL INCLUDE A 6" WIDE WITH EXTERIOR JOINT TAPE WITH PRIMER, TAPE ON THE LINE SECTION IS OPTIONAL. SEE PLATE S-12.
6. IN SLIP CLAY OR ORGANIC SOIL & (UNCLASSIFIED SOIL GROUPS UL, CL, OL, OH, CH, OH AND PT) THE SOILS SHALL BE OVER-EXCAVATED AS NECESSARY, 24" (12" MIN.) AND BACKFILLED WITH MASONRY CLASS A-3 SOIL (CONTRACTED TO 95% ASTM D-1557) OVER-EXCAVATE AS NECESSARY, 12" (6" MIN.) AND BACKFILL WITH GRANULAR BACKFILL (1/2" STONE).

SANITARY SEWER CONCRETE TYPE "A" MANHOLE 8"-21" SEWERS

JANUARY 2022 PLATES S-2, S-3

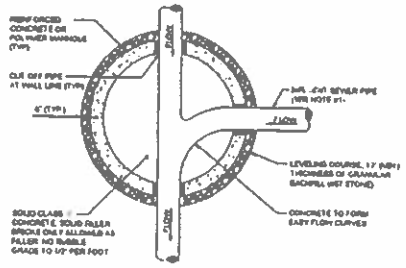


NOTES:

1. MATERIAL ASTM A-48 CLASS 30 GRAY IRON.
2. RING WEIGHT 270 LBS APPROX.
3. COVER WEIGHT 234 LBS. APPROX.
4. ALL DIMENSIONS ARE SHOWN IN INCHES.
5. FOR MANHOLES WHICH WILL BE MAINTAINED BY JEA (INCLUDING UTILITY REDEVELOPMENT PROJECTS) THE COVER SHALL INCL. THE "JEA" LOGO AND A NEOPRENE GASKET.
6. FOR MANHOLES WHICH WILL BE MAINTAINED BY PARTIES OTHER THAN JEA (PRIVATE AS PRIVATE SEWER COLLECTION SYSTEMS, PRIVATE LIFT STATIONS AND PUMP OUT SITES AND OTHER NOT MAINTAINED BY JEA) THE COVER SHALL NOT HAVE "SANITARY SEWER" SUNK AS LETTERING AND "JEA" LOGO OR NEOPRENE GASKET.

SANITARY SEWER MANHOLE FRAME AND COVER

JANUARY 2022 PLATE S-1

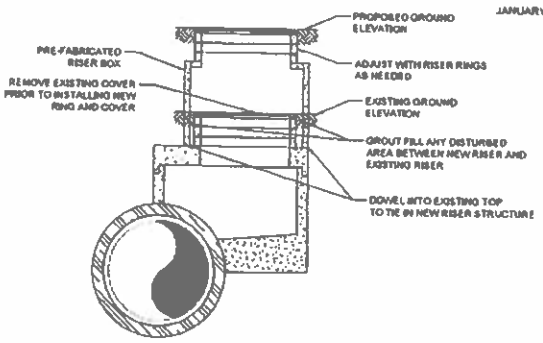


PLAN VIEW (S-3)
(FOR SECTION VIEW SEE S-2 & S-3)

NOTES:

1. THE ANGLE BETWEEN ALL INCOMING FLOW CHANNELS AND EFFLUENT PIPE SHALL BE BETWEEN 90° - 120° UNLESS OTHERWISE APPROVED BY JEA.

JANUARY 2022 PLATE S-3



MANHOLE LID RISER DETAIL

JANUARY 2022

REVISIONS					

SCALE AS SHOWN
DATE
DRAWN
CHECKED
APPROVED

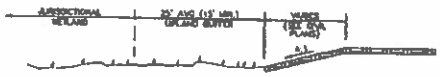
DETAILS

JACKSONVILLE FAIRGROUNDS
PHASE 3 SJRWMD CLEARING PERMIT SET

gai consultants

PROJECT NO./DWG. NO.

C506



ADJACENT WETLAND
PROPOSED GRADING
TYPICAL SECTION

NTS

REVISIONS

SCALE AS SHOWN

DATE

DRAWN

CHECKED

APPROVED

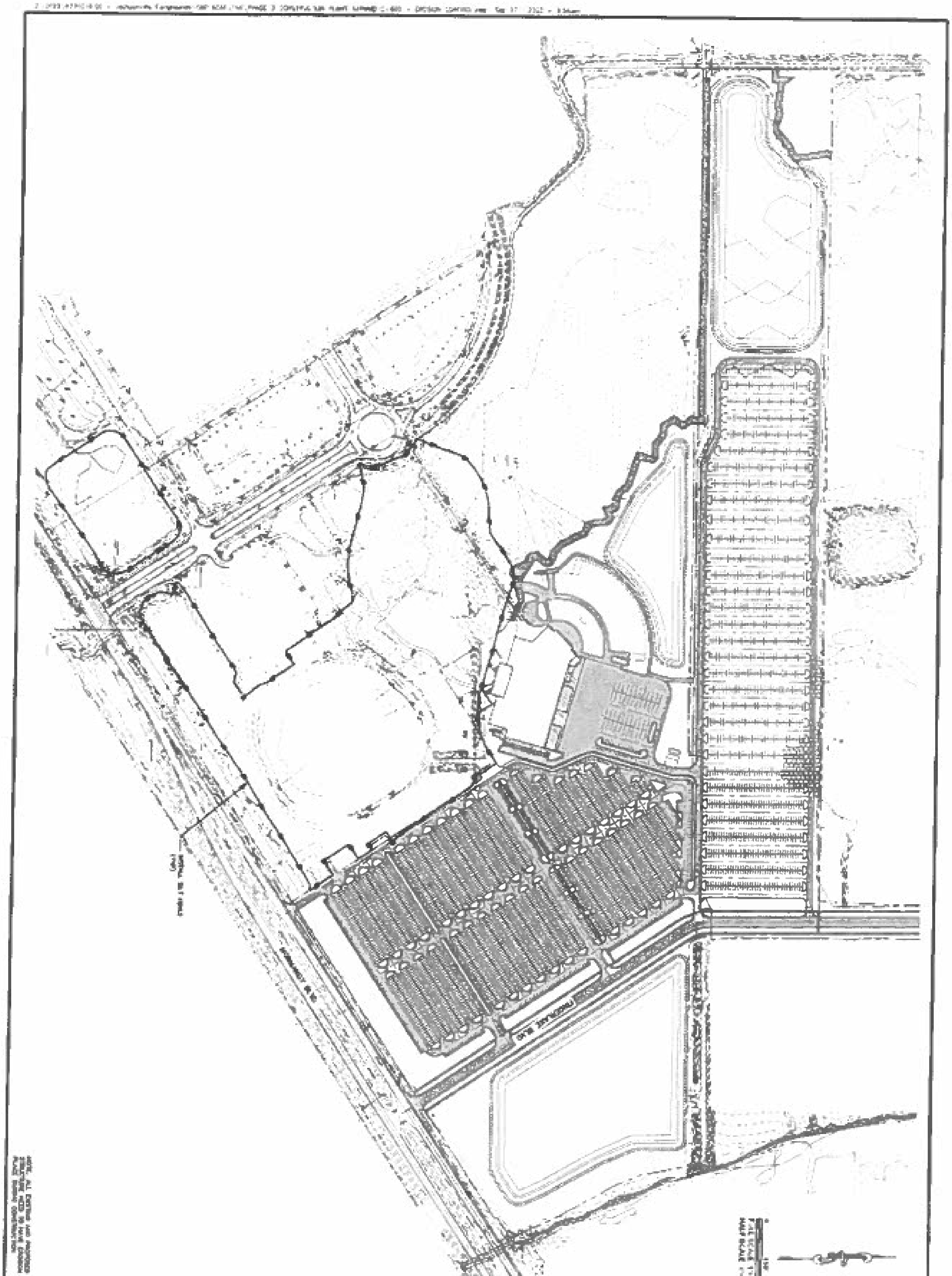
DETAILS

JACKSONVILLE FAIRGROUNDS
PHASE 3 SJRWMD CLEARING PERMIT SET

gai consultants

PROJECT NO./BASH NO.

SHEET
C507



EROSION AND SEDIMENT CONTROL PLAN

JACKSONVILLE FAIRGROUNDS
PHASE 3 SJRWMD CLEARING PERMIT SET

GAI Consultants

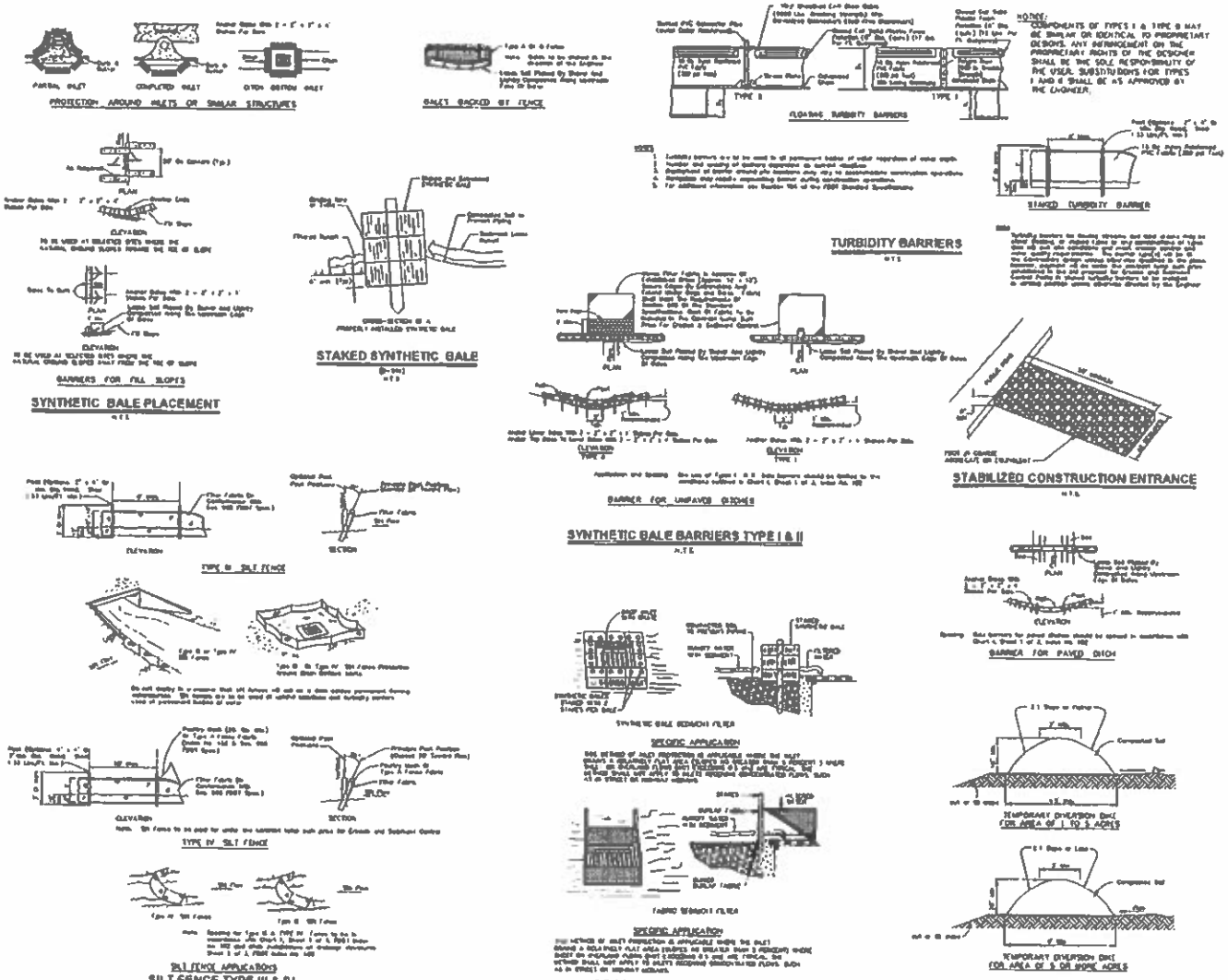
SHEET C600

STORM WATER POLLUTION PREVENTION PLAN

EROSION AND SEDIMENT CONTROL NOTES

1. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING SILT FROM SITE IF NOT REQUIRED ON-SITE AND REPORTING PLAN AGREEMENT AND PHASE IN ALL EFFORTS AND SHALL BE AT COMPLETION OF CONSTRUCTION.
2. THE SITE CONTRACTOR IS RESPONSIBLE FOR REMOVING THE TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES AFTER COMPLETION OF CONSTRUCTION AND ONLY WHEN ARE AS HAVE BEEN STABILIZED.
3. VEGETATIVE PROTECTION - ON-SITE PROTECTION IS ADDITION TO THE ABOVE ALSO BE PROVIDED SHALL NOT PERMIT SILT TO LEAVE THE PROJECT SERVICE THAT THE EROSION CONTROL OR VEGETATION.
4. CONSTRUCTION SHALL DRAINS THAT ALL DRAINAGE STRUCTURES, PIPES, ETC. ARE CLEANED OUT AND WORKING PROPERLY AT THE TIME OF ACCEPTANCE.
5. NOTE WITH SHALL BE LAID ONLY THE DEEP SILT SO THAT THE SITE (FEEDING A MINIMUM OF 1 FOOT OF FREE LAKE) ONE OF THE SILT STRUCTURE WATERWAY CLEAN OR REMOVABLE ONE NEED WITH 1/2-INCH OPENINGS SHALL BE USED. IF MORE THAN ONE LEVEL OF WITH IS NECESSARY, THE 1 FOOT SHALL BE EXCLUDED.
6. FOOT AND 1 GRADE AGGREGATE SHALL BE PLACED OVER THE WIRE WITH AN AVERAGE 6 IN DEEP. THE DEPTH OF STONE SHALL BE AT LEAST 12 INCHES OVER THE ENTIRE INLET OPENING. THE STONE SHALL EXTEND BEYOND THE INLET OPENING AT LEAST 18 INCHES ON ALL SIDES.
7. IF THE STONE FILTER BECOMES CLOGGED WITH SEDIMENT TO THAT IT NO LONGER ADEQUATELY PERFORMS ITS FUNCTION, THE STONES MUST BE PULLED FIRST FROM THE INLET, CLEANED AND REPLACED.
8. BALES SHALL BE STAKED AND ANCHORED IN STRAW-FIRM IN THE ENTIRE GRADIENT AROUND THE INLET AS MUCH THAN BALE AND UNDER THE BALES.
9. BALES SHALL BE PLACED LENGTHWISE IN A SINGLE ROW SURROUNDING THE INLET, WITH THE ENDS OF ADJACENT BALES PACKED TOGETHER.
10. THE FILTER BARRIER SHALL BE EXTENDED AND SUPPLIED A TRENCH SHALL BE EXCAVATED TO A MINIMUM DEPTH OF 8 INCHES. AFTER THE BALES ARE STAKED, THE EXCAVATED SOIL SHALL BE BACKFILLED AND COMPACTED AGAINST THE FILTER BARRIER.
11. EACH BALE SHALL BE SECURELY ANCHORED AND HELD IN PLACE BY AT LEAST TWO STAKES OR REBARS DRIVEN THROUGH THE BALE.
12. LOOSE SYNTHETIC BALES SHALL BE WEDGED BETWEEN BALES TO PREVENT WATER FROM EXPIRING BETWEEN BALES.
13. SYNTHETIC BALE BARRIERS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL.
14. CLOSE ATTENTION SHALL BE PAID TO THE REPAIR OF DAMAGED BALES, END PLAY AND UNDERMINING BENEATH BALES.
15. NECESSARY REPAIRS TO BARRIERS OR REPLACEMENT OF BALES SHALL BE ACCOMPLISHED PROMPTLY.
16. ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE EROSION BALE BARRIER IS NO LONGER NECESSARY SHALL BE DISTRIBUTED TO CONFORM TO THE EXISTING GRADE, PREPARED AND SEEDED.
17. SILT FENCES AND FILTER BARRIERS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. AS REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY.
18. SHOULD THE FABRIC ON A SILT FENCE OR FILTER BARRIER DETERIORATE OR BECOME INEFFECTIVE PRIOR TO THE END OF THE EXPECTED USABLE LIFE AND THE BARRIER STILL IS NECESSARY, THE FABRIC SHALL BE REPLACED PROMPTLY.
19. SEDIMENT DEPOSITS SHALL BE REMOVED AFTER EACH STORM EVENT. THEY MUST BE REMOVED BEFORE DEPOSITS REACH APPROXIMATELY ONE-HALF THE HEIGHT OF THE BARRIER.
20. ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE SILT FENCE OR FILTER BARRIER IS NO LONGER REQUIRED SHALL BE DISTRIBUTED TO CONFORM WITH THE EXISTING GRADE, PREPARED AND SEEDED.
21. THE STRUCTURE SHALL BE INSPECTED AFTER EACH RAIN AND REPAIRS MADE AS NEEDED.
22. SEDIMENT SHALL BE REMOVED AND THE TRAP RESTORED TO ITS ORIGINAL DIMENSIONS WHEN THE SEDIMENT HAS ACCUMULATED TO 1/2 THE DESIGN DEPTH OF THE TRAP. REMOVED SEDIMENT SHALL BE DISPOSED IN A SUITABLE AREA AND IN SUCH A MANNER THAT IT WILL NOT CAUSE.
23. THE CONTRACTOR IS RESPONSIBLE FOR FOLLOWING THE EROSION AND SEDIMENT CONTROL PRACTICES AS OUTLINED IN THE PLAN, SPECIFICATIONS AND ST. JOHNS RIVER WATER MANAGEMENT DISTRICT ENGINEERING AND CRITERIA.
24. FOR ADDITIONAL INFORMATION ON EROSION AND SEDIMENT CONTROL REFER TO THE FLORIDA DEVELOPMENT MANUAL - A GUIDE TO SOUND LAND AND WATER MANAGEMENT FROM THE STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION (FLDER) CHAPTER 3
25. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE PLACED ADJACENT TO ALL WETLANDS AREAS WHERE THERE IS POSSIBILITY FOR DISRUPTION OF THE QUALITY DEGRADATION - SEE DETAIL SHEET FOR TYPICAL CONSTRUCTION
26. ALL DISTURBED AREAS SHALL BE GRADED, SEEDED, MULCHED AND MAINTAINED UNTIL A PERMANENT VEGETATIVE COVER IS ESTABLISHED.
27. THE SHALL BE PLACED ON AREAS WHICH ARE NEVER SUBJECT TO EROSION PROTECTION TO CHECK THE QUALITY STANDARDS AND MAINTAINED.
28. ANY DISCHARGE FROM DEWATERING ACTIVITY SHALL BE FILTERED AND DIRECTED TO THE SURFACE IN A MANNER WHICH PREVENTS EROSION AND TRANSPORTATION OF SUSPENDED SOLIDS TO THE RECEIVING SURFACE.
29. DEWATERING PUMPS SHALL NOT EXCEED THE CAPACITY OF THE EROSION PREVENTS A DISCHARGE THAT RESULT FROM THE ST. JOHNS RIVER WATER MANAGEMENT DISTRICT
30. ALL DISTURBED AREAS TO BE STABILIZED THROUGH REVEGETATION, SILT, SCREENING, MULCH, SHRUBS AND GRASSES - ALL FILL SLOPES 3:1 OR FLATTER TO RECEIVE SEEDED SOLID SOD.
31. ALL DEWATERING, EROSION, AND SEDIMENT CONTROL TO REMAIN IN PLACE AFTER COMPLETION OF CONSTRUCTION AND REMOVED ONLY WHEN AREAS HAVE STABILIZED.
32. THIS PLAN INCLUDES THE MINIMUM EROSION AND SEDIMENT MEASURES REQUIRED FOR THIS PROJECT. THE CONTRACTOR IS RESPONSIBLE FOR MEETING ALL APPLICABLE RULES, REGULATIONS AND WATER QUALITY GUIDELINES THAT NEED TO OFFER ADDITIONAL CONTROLS.
33. THE CONTRACTOR SHALL BE REQUIRED TO ADDRESS TO ALL WATER MANAGEMENT DISTRICT MANUAL RULES TO COMPLIANCE OF EXISTING FOR EROSION AND SEDIMENTATION CONTROL. THE COST OF THIS COMPLIANCE SHALL BE PART OF THE BID ITEM.

NOTE:
WHERE FDOT SPECS AND INDEX ARE REFERENCED, PLEASE REFER TO FDOT ROADWAY & TRAFFIC STANDARDS PLANS AND FDOT STANDARD SPECIFICATIONS FOR ROAD & BRIDGE CONSTRUCTION.



REVISIONS

NO.	DATE	BY	DESCRIPTION

SCALE: AS SHOWN

STORM WATER POLLUTION PREVENTION PLAN

JACKSONVILLE FAIRGROUNDS
PHASE 3 SJRWMD CLEARING PERMIT SET

gai consultants

PROJECT NO./DASH NO.

SHEET
C700

OWNER'S REQUIREMENTS

SITE DESCRIPTION

CONTROLS

TIMING OF CONTROLS/MEASURES

CERTIFICATION OF COMPLIANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS

POLLUTION PREVENTION PLAN CERTIFICATION

CONTRACTOR'S REQUIREMENTS

GENERAL

SEQUENCE OF MAJOR ACTIVITIES:

TIMING OF CONTROLS/MEASURES

CONTROLS

CONTROLS CONT'D.

OTHER CONTROLS

INVENTORY FOR POLLUTION PREVENTION PLAN

SPILL PREVENTION

SPILL PREVENTION CONT'D.

MAINTENANCE/INSPECTION PROCEDURES

MAINT./INSP. PROCEDURES CONT'D.

CONTRACTOR'S CERTIFICATION

EXHIBIT D

REVISIONS

SCALE: AS SHOWN

DATE:

DRAWN:

CHECKED:

APPROVED:

STORM WATER POLLUTION PREVENTION PLAN

JACKSONVILLE FAIRGROUNDS
PHASE 3 SURWMD CLEARING PERMIT SET

gai consultants

PROJECT NO./DASH NO.

SHEET
C701

Z:\2021\#230218.00 - Jacksonville Fairgrounds\CAD\ACAD\CIVIL\PHASE 3\CONSTRUCTION PLANS\SJRWMD\C-700_SWPPP.dwg Sep 07, 2023 - 8:51am

JACKSONVILLE FAIRGROUNDS
DUVAL COUNTY, FL

STORM WATER POLLUTION PREVENTION PLAN

INSPECTION AND MAINTENANCE REPORT FORM

TO BE COMPLETED EVERY 7 DAYS AND WITHIN 24 HOURS OF A RAINFALL EVENT OF 0.25 INCHES OR MORE

INSPECTOR _____ DATE _____

INSPECTOR'S QUALIFICATIONS _____

DAYS SINCE LAST RAINFALL: _____ AMOUNT OF LAST RAINFALL _____ INCHES

STABILIZATION MEASURES

INSPECTION AREA (DESIGNATION OF LOCATION)	DAYS SINCE LAST DISTURBED	DATE OF NEXT DISTURBANCE	STABILIZED ? (YES/NO)	STABILIZED WITH	CONDITION

STABILIZATION REQUIRED _____

TO BE PERFORMED BY _____ ON OR BEFORE _____

JACKSONVILLE FAIRGROUNDS
DUVAL COUNTY, FL

STORM WATER POLLUTION PREVENTION PLAN

INSPECTION AND MAINTENANCE REPORT FORM

STRUCTURAL CONTROLS

DATE _____

EARTH DIKES/SWALES

DIKE OR SWALE	FROM	TO	IS DIKE/SWALE STABILIZED ?	IS THERE EVIDENCE OF BYPASSING OR OVERTOPPING

MAINTENANCE REQUIRED FOR EARTH DIKE/SWALE _____

TO BE PERFORMED BY _____ ON OR BEFORE _____

CATCH BASIN/CURB INLET/OUTFALL TURBIDITY CONTROLS

STRUCTURE/ OUTFALL	ARE TURBIDITY CONTROLS IN PLACE	ANY EVIDENCE OF CLOGGING/BYPASSING OR BYPASSING ?	ARE TURBIDITY CONTROLS IN NEED OF REPLACING	DOES SILT NEED TO BE REMOVED FROM AROUND CONTROL

MAINTENANCE REQUIRED FOR CATCH BASIN/CURB INLETS/OUTFALLS TURBIDITY CONTROLS _____

TO BE PERFORMED BY _____ ON OR BEFORE _____

JACKSONVILLE FAIRGROUNDS
DUVAL COUNTY, FL

STORM WATER POLLUTION PREVENTION PLAN

INSPECTION AND MAINTENANCE REPORT FORM

SEDIMENT BASIN

DEPTH OF SEDIMENT IN BASIN	DEPTH OF SEDIMENT SIDE BASIN	ANY EVIDENCE OF OVERTOPPING OF THE EMBANKMENT ?	DISTANCE FROM OUTFALL FROM SEDIMENT BASIN

MAINTENANCE REQUIRED FOR SEDIMENT BASIN _____

TO BE PERFORMED BY _____ ON OR BEFORE _____

OTHER CONTROLS

STABILIZED CONSTRUCTION ENTRANCE

DOES MUCH SEDIMENT GET TRACKED ON TO ROAD ?	IS THE GRAVEL CLEAN OR IS IT FILLED WITH SEDIMENT?	DOES ALL TRAFFIC USE THE STABILIZED ENTRANCE TO LEAVE THE SITE ?	IS THE CONCRETE BEHIND THE ENTRANCE WORKING (IF APPLICABLE)

MAINTENANCE REQUIRED FOR STABILIZED CONSTRUCTION ENTRANCE _____

TO BE PERFORMED BY _____ ON OR BEFORE: _____

JACKSONVILLE FAIRGROUNDS
DUVAL COUNTY FL

STORM WATER POLLUTION PREVENTION PLAN

INSPECTION AND MAINTENANCE REPORT FORM

CHANGES REQUIRED TO THE POLLUTION PREVENTION PLAN _____

REASONS FOR CHANGES _____

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHERED AND EVALUATED THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.

SIGNATURE: _____

DATE _____

STORM WATER POLLUTION PREVENTION PLAN

NOTE TO CONTRACTOR

THIS PLAN CONTAINS CERTAIN ITEMS REQUIRED BY THE EPA'S NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (NPDES) STORM WATER POLLUTION PREVENTION PLAN (SWPPP). CONTRACTOR MUST COMPLETE THIS CONSTRUCTION WORK IN ACCORDANCE WITH THE SWPPP AND ANY DEVIATIONS FROM THE PLAN ARE DEEMED AS MADE BY THE CONTRACTOR.

PROJECT NO./DWG NO.	C702
GAI CONSULTANTS	
618 EAST SOUTH STREET, SUITE 500 ORLANDO, FL 32801 PHONE: (407) 423-8398	
SCALE	AS SHOWN
DATE	
DESIGNED	
DRAWN	
CHECKED	
APPROVED	

STORM WATER POLLUTION PREVENTION PLAN

JACKSONVILLE FAIRGROUNDS
PHASE 3 SJRWMD CLEARING PERMIT SET

NO.	DATE	BY	CHKD	APPD	DESCRIPTION

REVISIONS

EXHIBIT D

COJ DB – Fairgrounds Relocation Project

FDOT Traffic Impact Study

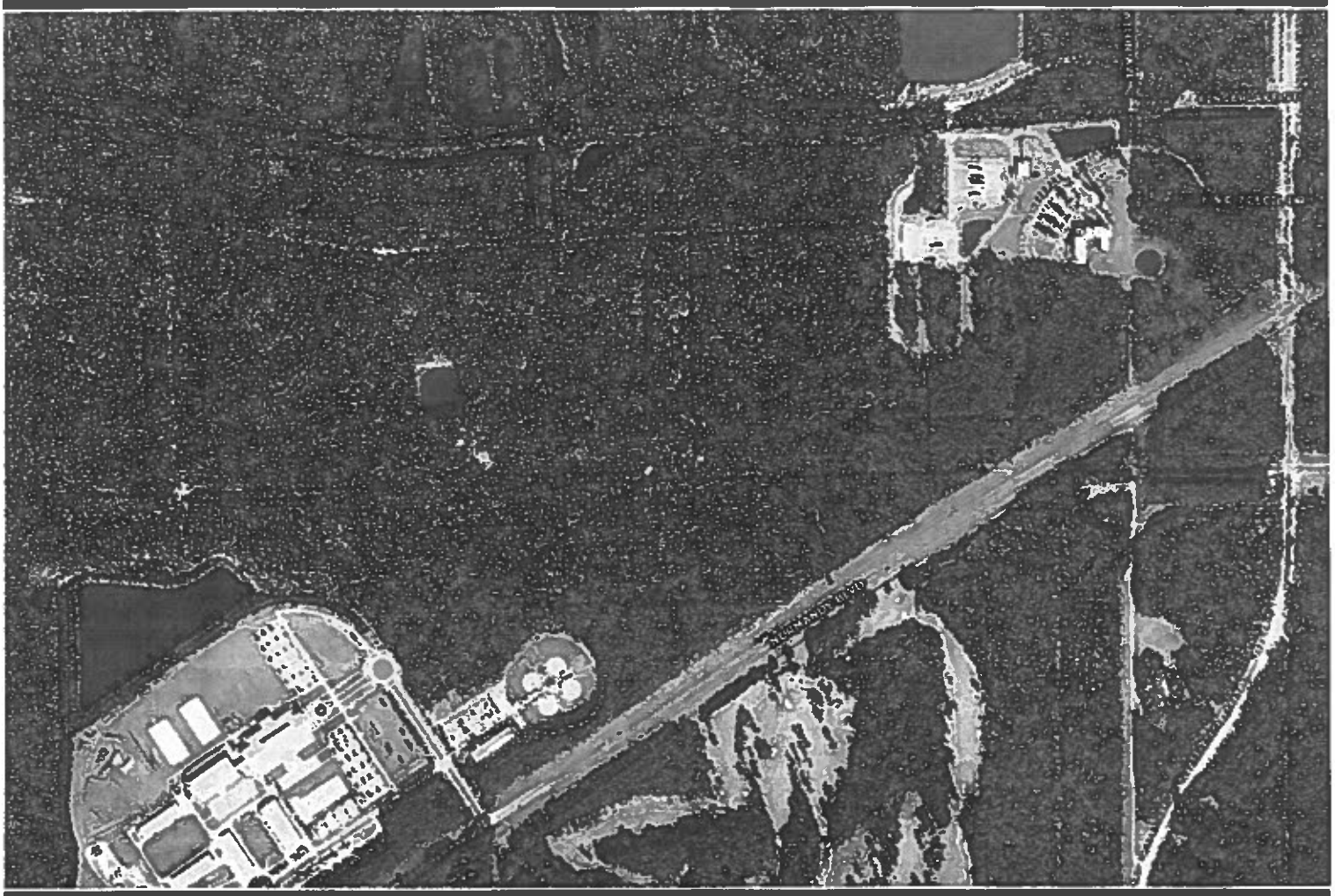
Summary Only

Jacksonville Fairgrounds

EXHIBIT D

Duval County

Traffic Impact Study



Prepared for:

Prepared by:

Chindalur Traffic Solutions, Inc.
8833 Perimeter Park Boulevard, Suite 103
Jacksonville, FL 32216
904.619.3368

Project No.: 1089-230-016
Date: 08/31/2023

EXHIBIT D

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Attachments

Attachment A	Preliminary Site Plan
Attachment B	Traffic Counts and Peak Season Factor (PSF)
Attachment C	FDOT D2 LOS Summary and QLOS Tables
Attachment D	Existing Conditions HCM Worksheets
Attachment E	Historical AADT and Trends Plots
Attachment F	Year 2035 Background Conditions HCM Worksheets
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Attachment H	Vehicle Occupancy Factor Data
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Attachment J	Left Turn Lane Criteria COJ
Attachment K	FDOT Access Management Right Turn Lane Criteria
Attachment L	Year 2035 Build-Out Conditions HCM Worksheets 01
Attachment M	Year 2035 Build-Out Conditions HCM Worksheets 02

1.0 Executive Summary

This traffic analysis was performed to assess the traffic impacts of the proposed relocation of the Greater Jacksonville Agricultural Fairgrounds to the Cecil Commerce Center on the Westside of Jacksonville. The new Fairgrounds will be situated east of the Equestrian Center along Normandy Boulevard (SR 228). This project will be carried out in two phases and is expected to be completed by the end of 2035. The Fairgrounds will cover an area of about 195 acres and will include Exhibition Halls, a Museum, an Amphitheater, Administration facilities, parking spaces, and other amenities to host Annual Fair Events. Access to the Fairground will be facilitated through the extension of Finger Lake Road from POW MIA Memorial Boulevard to the Fairgrounds site and with a connecting to an existing median opening on Normandy Boulevard. Additionally, a new right-in-right-out driveway on Normandy Boulevard between Equestrian Center's driveway access and the existing median opening will be provided. The development will also link with the Equestrian Center's driveway access to Normandy Boulevard. The existing median opening at the proposed driveway will require slight modification to allow for turning traffic. The anticipated completion of this relocation project in 2035 reflects the City's commitment to providing modern facilities that cater to the community's cultural and recreational needs.

Prior to the study, methodology meetings were held with FDOT staff to discuss the project's key issues. FDOT requested an operational traffic study.

Five years of attendance record (2017 – 2022 – Excluding 2020 due to COVID) provided by the Greater Jacksonville Fair Association was utilized as basis for estimating the number of vehicle trips for the proposed development. Based on this data, it was estimated that 16,864 daily vehicle trips and 3,373 peak-hour vehicle trips for 2035 would be expected. The NERPM (Northeast Regional Planning Model) was utilized for the distribution of the project trips to the surrounding roadway segments and intersections.

The impact of the project traffic on the adjacent streets was assessed by comparing the results of the intersection Level of Service (LOS) analysis for 2035 background-only traffic conditions to that of 2035 background-plus-new trips traffic conditions. It was observed from the LOS analysis that without any off-site roadway improvements, the additional traffic due to the project will adversely impact delay and LOS at some of the study intersections, specifically the Normandy Boulevard & POW MIA Memorial Boulevard intersection and the project's access driveways would be impacted.

To mitigate for the expected traffic impacts, the study recommends the following off-site roadway improvements to enhance traffic flow:

- ***Normandy Boulevard at RIRO Driveway***
  a. Provide a westbound right turn lane to the extent possible.

- ***Normandy Boulevard at Finger Lake Road Extension***
  a. Provide a westbound right turn lane to the extent possible.
  b. Provide an eastbound left turn lane to the extent possible (1,000 feet).

c. Provide two egress (exit) lanes on Finger Lake Street.
d. Provide one ingress lane on Finger Lake Street.
e. Provide law enforcement to control traffic during special events.

- ***Normandy Boulevard at POW MIA Memorial Boulevard***
  a. A second northbound left turn lane will be warranted.
  b. However, the demand for northbound through movements is anticipated to be minimal.
  c. Recommendation is to convert one of the two existing northbound through lanes to a second northbound left turn lane during special events.
  d. Provide law enforcement to control traffic during fair and special events.

- ***103rd Street at POW MIA Memorial Boulevard***
  a. Provide law enforcement to control traffic during fair and special events.

- ***POW MIA Memorial Boulevard at Finger Lake Street***
  a. Provide 600 feet southbound right turn lane on POW-MIA Memorial Boulevard
  b. Provide two egress (exit) lanes on Finger Lake Street.
  c. Provide one ingress lane on Finger Lake Street.
  d. Provide law enforcement to control traffic during fair and special events.

2.0 Introduction

The City of Jacksonville is planning to relocate the Greater Jacksonville Agricultural Fairgrounds from Downtown to the Cecil Commerce Center on the Westside of Jacksonville. The new Fairgrounds will be situated east of the Equestrian Center along Normandy Boulevard (SR 228). This project will be carried out in two phases and is expected to be completed by the end of 2035. The Fairgrounds will cover an area of about 195 acres and will include Exhibition Halls, a Museum, an Amphitheater, Administration facilities, parking spaces, and other amenities to host Annual Fair Events. The initial Site Plan for the project is provided as **Attachment A**. Access to the Fairground will be facilitated through the extension of Finger Lake Road from POW MIA Memorial Boulevard to the Fairgrounds site and with a connecting to an existing median opening on Normandy Boulevard. Additionally, a new right-in-right-out driveway on Normandy Boulevard between Equestrian Center's driveway access and the existing median opening will be provided. The development will also link with the Equestrian Center's driveway access to Normandy Boulevard. The existing median opening at the proposed driveway will require slight modification to allow for turning traffic. The anticipated completion of this relocation project in 2035 reflects the City's commitment to providing modern facilities that cater to the community's cultural and recreational needs. The project location is shown in **Figure 01**.

Prior to the study, methodology meetings were held with FDOT staff to discuss the project's key issues. FDOT requested an operational traffic study.

This report presents the results and findings of the traffic analysis and provides recommendations for any potential roadway improvements necessary to maintain traffic flow on the adjacent roads at the proposed Fairgrounds location.

3.0 Existing Roadway and Intersection Conditions

The existing adjacent roadways within the project area that will provide access to the project location and included in the study are Normandy Boulevard, 103rd Street, and POW MIA Memorial Boulevard. Normandy Boulevard (SR 228), to the east of the proposed project site is a 4-lane divided principal arterial, which transitions to a 2-lane undivided roadway to the west of the Equestrian Center. The posted speed limit is 55 mph within this section. The access management class is class 3 (Restrictive) for the 4-lane divided section and class 4 (Non-restrictive) for the 2-lane undivided section. Both 103rd Street (SR 134) and POW MIA Memorial Boulevard are 4-lane divided minor arterials with posted speed limit of 45 mph.

For this study, a 24-Hour volume (machine) count was conducted on Normandy Boulevard near the project location (east and west of the Equestrian Center Driveway) and on 103rd Street. Additionally, the weekday peak period and weekend peak period (peak hour of the Traffic Generator) turning movement counts were conducted at the following intersections:

- Normandy Boulevard and Equestrian Center Driveway (Un-signalized Intersection)
- POW MIA Memorial Boulevard and Finger Lake Road (Un-signalized Intersection)
- Normandy Boulevard and POW MIA Memorial Boulevard (Signalized Intersection)

- 103rd Street (SR 134) and POW MIA Memorial Boulevard (Un-signalized Intersection)

Figures 02 and **03** show existing conditions at the above stated study intersections and on Normandy at the proposed Project Entrance Locations. The counts were collected for the weekday peak time periods (4:00pm – 8:00pm) and weekend (Saturday) peak time periods (10:00am – 2:00am). In addition, 24-Hour volume (machine) count was conducted on Normandy Boulevard near the project location.

These counts were further adjusted with a season factor of 0.99 to account for seasonal variations. The season factors data was obtained from the FDOT traffic counts portal. The above-mentioned counts data and the season factor data are included as **Attachment B**. The year 2023 peak hour traffic counts at the above stated study intersections are shown in **Figure 04**. To supplement the counts, the 2022 FDOT AADT traffic data for Normandy Boulevard (site # 721006 and #720004), 103rd Street (site #720925), and POW MIA Memorial Boulevard (site #723922, site #725012 and site #729241), also included as previously mentioned **Attachment B**, were utilized.

4.0 Existing Traffic Conditions

Existing conditions roadway segment analysis was performed by comparing existing annual average daily traffic volumes (AADTs) to the segment's adopted LOS standard maximum service volumes. The adopted LOS standard MSVs were obtained from the FDOT D2 LOS Reports, FDOT D2 Context Classification data portals and year 2020 and 2023 FDOT QLOS Generalized Standard Tables. **Attachment C** includes FDOT D2 LOS Reports, year 2020 and 2023 FDOT QLOS Generalized Standard Tables. **Table 01** summarizes existing conditions roadway segment analysis. As shown in this table, all the roadway segments are currently operating at LOS D or better.

Existing conditions study intersection capacity analysis was performed using the weekday PM peak hour and weekend peak hour traffic volumes. Both the signalized and un-signalized intersection capacity analyses were performed using Synchro (Version 11) software that utilizes HCM 6 procedures and methodologies in determining intersection Delay and LOS results. The Delay and LOS results from this analysis are summarized in **Table 02**. As summarized in this table, all the approaches at each of the study intersections are currently operating at LOS D or better. **Attachment D** includes existing conditions intersection capacity analysis HCM worksheets.

Additionally, a field review of the study roadway segments and intersections was conducted and determined that no immediate improvements are anticipated at the study roadway segments and intersections.

5.0 Year 2035 Background Traffic Projections and Analysis

The proposed project is expected to be completed by the year 2035 and as a result the year 2035 conditions background traffic was projected by applying a growth factor to the year 2023 traffic volumes. The growth factor for each of the study roadway segments was estimated by performing trends analysis of the historical AADT. **Attachment E** includes copies of the Historical AADT and Trends Analysis Plots. If a negative growth factor was estimated, a minimum of 2.0% growth rate per year was applied to the

roadway segments. **Table 03** shows the year 2035 background conditions roadway segment analysis. As summarized in this table, all the roadway segments are anticipated to operate at or below the adopted LOS standard under the year 2035 background conditions except for the Normandy Boulevard roadway segment west of the Equestrian Center Driveway. This segment is anticipated to operate at LOS F under the year 2035 background conditions.

Please note that the daily adopted LOS standard maximum service volume for Normandy Boulevard west of the Equestrian Center Driveway was recently reduced from 24,200 to 14,000 (42% reduction on theoretical capacity) due to the adoption of FDOT Context Classification for state roadways. This roadway segment can be considered not deficient under the previously adopted LOS standard maximum service volumes criteria.

Growth factor for each of the study intersections was estimated by performing a weighted average of the growth rates for each of the roadway segments that form approaches to the study intersections. **Figure 05** shows the year 2035 background conditions traffic volumes at each of the study intersections. **Table 04** summarizes the year 2035 background conditions peak hour intersection capacity analysis Delay and LOS results. As summarized in this table, all the approaches at each of the study intersections are currently operating at LOS D or better except for two movements. The southbound left turn lane on the Equestrian Center Driveway at Normandy Boulevard and the southbound left turn lane on POW MIA Memorial Boulevard at 103rd Street intersections. These two movements are anticipated to operate at LOS F during the weekend peak hour time periods under the year 2035 background traffic conditions. **Attachment F** includes the year 2035 background conditions intersection capacity analysis HCM worksheets.

6.0 Estimate of Project Trips

Currently, the ITE Trip Generation Handbook does not offer any data for estimating trip generation rates for fairgrounds. Therefore, as was agreed with FDOT staff (during the project methodology meeting), previous years Jacksonville Fair attendance records were utilized in estimating the number of vehicle trips for the proposed development. The data was provided by the Greater Jacksonville Fair Association and is included as **Attachment G.**

The Greater Jacksonville Agricultural Fair is a seasonal event, which occurs between mid-October and mid-November annually and typically opens on a Wednesday, continues for twelve days and ends on a Sunday. Five years of attendance records (2017 – 2022, excludes 2020 due to COVID) were provided. The Greater Jacksonville Fair Association estimates the total event attendance by adding actual ticket sales on the event days to advance tickets, mid-night madness sales, student days sales (2 Saturdays), estimate of Florida/Georgia fans, estimates of Jaguar fans, Complimentary tickets and Promotions including (VIP passes, volunteers passes, Vendors passes, Livestock passes, Military Night, and Buy-One-Get-One Free tickets). The Fair Association noted that, whereas a precise number of employees is not available, typically they have 8 permanent staff and 10 to 12 volunteers during the off season. During the Fair weeks, they typically have an average of 50 volunteers, and they issue approximately 1000 vendor parking passes. All these are included in the attendance figures.

In using estimates of attendance for Florida/Georgia and Jaguar games, the Association simply assumes that a percentage of the fans from these games attend the fair when these events overlap with the fair. Fans to these Games currently have access to the existing Fairgrounds site with their Game tickets, which will not necessarily apply when the fair relocates to the new site. As a result, it was not included in the determination of the Average Daily Attendance provided in **Attachment G**.

The Average Daily Attendance was determined by finding the average of the available attendance records for each year (2017 – 2022, excludes 2020 due to COVID). To provide worst case scenario analysis highest attendance numbers for each week day or weekend day (from the year 2017 through 2022 attendance records) was considered for estimating Fairground related trips. As summarized in the Fairgrounds Attendance records table, an average of 23,944 and 42,161 people are anticipated to attend the Fairgrounds during a typical week day and weekend day respectively.

Additionally, as requested by FDOT staff during the methodology meeting, trips from special events at the existing Equestrian Center, Aquatic Center and the existing Baseball Grounds were obtained from Jax Equestrian Center and COJ Parks and Recreation was compared to the existing Fairgrounds events attendance records. It was determined that the Fairgrounds' related trips were the highest of all the events. **Attachment G** includes details of historical attendance records from the Equestrian Center, COJ Aquatic Center, Baseball Grounds, and the existing Jacksonville Fairgrounds.

As per FDOT's "Vehicle Occupancy Factor (VOF) and Transit Occupancy Factor Calculation" Technical Report, Duval County has an average VOF of 1.54 people per vehicle. However, FHWA's Special Event Operations Planning Feasibility Study suggests that a discrete/recurring event at a permanent venue that occurs on the weekend will likely have a higher vehicle occupancy factor due to families and groups of tailgaters. A vehicle occupancy factor of 2.5 people per vehicle represents a common assumption. Hence, the Average Daily Project Trips were determined by dividing the Average Daily Attendance by a VOF of 2.5. Copies of the extract from the FDOT technical report and the FHWA's Feasibility Study are included as **Attachment H**.

The highest weekday project trips are estimated at 9,578 and the highest weekend trips are estimated at 16,864. As agreed, upon at the methodology meeting, the Project Peak Hour Trips were further derived by applying a K-factor of 0.2 (20%) to the estimated Average Daily Project Trips. As a result, 1,916 weekday peak hour trips and 3,373 weekend peak hour trips were estimated. For the purpose of this analysis, 70% of the peak trips were considered entering trips and about 30% of the peak trips were considered exiting trips.

7.0 Project Trip Distribution and Assignment

The interim year 2035 model set of the Northeast Regional Planning Activity Based Model (NERPM_ABv3) travel demand forecasting model, provided by the North Florida Transportation Planning Organization (NFTPO), which was prepared as part of the TPO's 2045 Long Range Transportation Plan update, was used to develop project traffic distribution for the proposed Jacksonville Fairground Development.

A reasonableness check of area and facility type coding in the model on study links within the project transportation impact area was performed and no adjustments to these variables were required. The proposed Fairground development was added to the travel demand model.

Table 06 shows the project traffic distribution and the daily project traffic assignment on each of the study roadway segments. **Figure 06** shows the project traffic distribution percentages and the Weekday PM peak and Weekend peak project traffic assignment at each of the study intersections. **Attachment I** include copies of the model plots.
As shown in this table, following is a summary of project traffic distribution:

- 19.0% oriented to and from the west on Normandy Boulevard
- 19.0% oriented to and from the east on Normandy Boulevard (East of POW MIA Memorial Boulevard)
- 31.0% oriented to and from the north on POW MIA Memorial Boulevard
- 31.0% oriented to and from the south on POW MIA Memorial Boulevard
- 27.0% oriented to and from the east on 103rd Street
- 4.0% oriented to and from the south on POW MIA Memorial Boulevard (South of 103rd Street)

For the trip distribution at the project driveways on Normandy Boulevard, it was assumed that 80 % of project trips will utilize the proposed new driveways and 20% will utilize the existing driveway access through the Equestrian Center, which are both connections on Normandy Boulevard. Traffic to and from POW MIA Memorial Boulevard north of Finger Lake Road will utilize the extension of Finger Lake Road to the Fair site.

8.0 Year 2035 Build-Out Traffic Projections

The year 2035 build-out traffic volumes include year 2035 background traffic volumes and the project traffic assignment from the proposed Fairgrounds development. **Table 07** summarizes the year 2035 build-out conditions traffic volumes on each of the study roadway segments. As shown in this table, all the study roadway segments are anticipated to operate at LOS D or better except for the roadway segment of Normandy Boulevard west of the Equestrian Center Entrance. This roadway section is anticipated to continue operating at LOS F under the year 2035 build-out conditions.

The year 2035 build-out conditions' weekday PM peak and weekend peak traffic volumes at the study intersections include the year 2035 background conditions traffic volumes and the project traffic assignment at each of the study intersections. **Figure 07** shows year 2035 build-out conditions traffic volumes at each of the study intersections.

Turn Lanes Evaluation:

The need for an eastbound left turn lane on Normandy Boulevard at Finger Lake Road Extension was evaluated using the City of Jacksonville Left Turn Lane Criteria included in the COJ Land Development Code. As stated in the guidance, left-turn storage lanes shall be considered when the volume of left-turn traffic exceeds 30 vehicles per hour and the through traffic exceeds 200 vehicles per hour in either direction. As shown in previously stated **Figure 07**, about 204 eastbound left turns during weekday PM peak and 359 eastbound left turns during weekend peak left turns are anticipated on Normandy Boulevard at the

proposed Finger Lake Road Extension and the eastbound and westbound traffic volumes exceeds 200 vehicles per hour. Hence, an eastbound left turn lane is anticipated to be warranted on Normandy Boulevard. A copy of this criteria is included as **Attachment J**.

The need for a westbound right turn lane on Normandy Boulevard at the proposed Finger Lake Road Extension and the proposed Right-In-Right-Out driveway and the need for a southbound right turn lane on POW MIA Memorial Boulevard at Finger Lake Road was evaluated using the criteria included in the FDOT Access Management Guide. As stated in this criterion, an eastbound right turn lane should be considered when 55 right turns per hour are anticipated on roadways with a posted speed limit over 45 miles per hour (mph) and when 80 right turns per hour are anticipated on roadways with a posted speed limit of 45 mph or less. As shown in previously stated **Figure 07**, about 295 westbound right turns on Normandy Boulevard at the proposed Right-In-Right-Out driveway, about 884 westbound right turns on Normandy Boulevard at the proposed Finger Lake Extension and about 439 southbound right turns on POW MIA Memorial Boulevard at Finger Lake Road are anticipated during the weekend peak time periods. Hence, a westbound right turn lane on Normandy Boulevard at the proposed Finger Lake Road Extension and the proposed right-in-right-out driveway is anticipated to be warranted under the build-out conditions of the proposed Fairgrounds development. Additionally, a southbound right turn lane on POW MIA Memorial Boulevard at Finger Lake Road is also anticipated to be warranted under the build-out conditions of the proposed Fairgrounds development. A copy of this criteria is included as **Attachment K**.

Table 08 summarizes the intersection capacity analysis Delay and LOS results of the study intersections under the year 2035 build-out conditions. As summarized in this table All study intersections anticipated to operate at LOS D or better under the year 2035 background conditions with exception of the following:

- The Southbound left turns at the Equestrian Center Intersection.
- The westbound left turns and right turns at the 103rd Street and POW-MIA Memorial Boulevard intersection.
- The eastbound left turns on Normandy Boulevard at the Finger Lake Road Extension.
- The southbound left turns on Finger Lake Road Extension at Normandy Boulevard.
- The northbound and southbound approaches at Normandy Boulevard at POW MIA Memorial Boulevard intersection.

Attachments L and **M** includes copies of the year 2035 build-out conditions' intersection capacity analysis HCM worksheets.

9.0 Proposed Potential Improvements

The following improvements are recommended to mitigate some of the critical impacts that the proposed project is anticipated to impose on the adjacent roads, especially on Normandy Boulevard and POW MIA Memorial Boulevard. The recommendation of the following potential improvements is based on the LOS analyses presented in the study, and initial discussions with the FDOT and the City of Jacksonville:

1. Extension of the existing Finger Lake Road from POW MIA Memorial Boulevard to the project site: During previous/initial pre-application/methodology meetings, FDOT Staff had suggested considering the extension of Finger Lake Road to the proposed site in order to provide additional ingress/egress and thereby reduce the expected traffic congestion on Normandy Boulevard. After

reviewing some potential off-site improvements with the City of Jacksonville, and carefully considering the options, it was determined that extending this road to the project site offers the most long-term benefit for traffic circulation in this area. It is proposed that the existing 3-lane with curb & gutter section be extended to the Fair site. This improvement will provide a key access point to the fair site from POW MIA Memorial Boulevard.

2. An additional NB left turn lane on POW MIA Memorial Boulevard at Normandy Boulevard intersection is not anticipated under the year 2035 background conditions. However, during the fair, an additional northbound left turn lane would benefit the traffic entering the fair via 103rd Street. However, this demand is only a short-term demand during the fair. The northbound through movements are considerably low under the year 2035 background and build-out conditions. Hence, it is recommended that one of the two existing northbound through lanes be converted to a second northbound left turn lane during the fair and special events.
3. Provide a westbound right turn lane (approximately 1,000 feet) on Normandy Boulevard at the proposed Finger Lake Road Extension. This additional lane can be constructed inside the existing right-of-way.
4. Provide an eastbound left turn lane (approximately 1,000 ft) on Normandy Boulevard at the proposed Finger Lake Road Extension. This additional lane can be constructed inside the existing right-of-way.
5. Provide a westbound right turn lane (approximately 600 feet) on Normandy Boulevard at the proposed Right-In-Right-Out Driveway. This additional lane can be constructed inside the existing right-of-way.
6. Provide a southbound right turn lane (approximately 600 feet) on POW MIA Memorial Boulevard at Finger Lake Road. This additional lane may need additional ROW.
7. However, due to influx of large amount of traffic volumes during the fair, it is recommended law enforcement be provided to control traffic at these study intersections during the fair and during special events.

10.0 Conclusions

This traffic analysis was performed to assess the traffic impacts of the proposed relocation of the Greater Jacksonville Agricultural Fairgrounds to the Cecil Commerce Center on the Westside of Jacksonville. The new Fairgrounds will be situated east of the Equestrian Center along Normandy Boulevard (SR 228). This project will be carried out in two phases and is expected to be completed by the end of 2035. The Fairgrounds will cover an area of about 195 acres and will include Exhibition Halls, a Museum, an Amphitheater, Administration facilities, parking spaces, and other amenities to host Annual Fair Events.

Access to the Fairground will be facilitated through the extension of Finger Lake Road from POW MIA Memorial Boulevard to the Fairgrounds site and with a connecting to an existing median opening on Normandy Boulevard. Additionally, a new right-in-right-out driveway on Normandy Boulevard between Equestrian Center's driveway access and the existing median opening will be provided. The development will also link with the Equestrian Center's driveway access to Normandy Boulevard. The existing median opening at the proposed driveway will require slight modification to allow for turning traffic.

The roadway segment analysis and intersection capacity analysis reveal that traffic from the proposed fairgrounds development is anticipated to significantly impact some of the study roadway segments and intersections especially the intersections on Normandy Boulevard at 103rd Street. In order to minimize the traffic impacts and improve traffic operations, the following improvements are recommended.

- Extend Finger Lake Road from POW MIA Memorial Boulevard to the Fairground and to Normandy Boulevard.
- An additional NB left turn lane on POW MIA Memorial Boulevard at Normandy Boulevard intersection is not anticipated under the year 2035 background conditions. However, during the fair, an additional northbound left turn lane would benefit the traffic entering the fair via 103rd Street. However, this demand is only a short-term demand during the fair. The northbound through movements are considerably low under the year 2035 background and build-out conditions. Hence, it is recommended that one of the two existing northbound through lanes be converted to a second northbound left turn lane during the fair and special events.
- Provide a westbound right turn lane (approximately 1,000 feet) on Normandy Boulevard at the proposed Finger Lake Road Extension.
- Provide an eastbound left turn lane (approximately 1,000 ft) on Normandy Boulevard at the proposed Finger Lake Road Extension.
- Provide a westbound right turn lane (approximately 600 feet) on Normandy Boulevard at the proposed Right-In-Right-Out Driveway.
- Provide a southbound right turn lane (approximately 600 feet) on POW MIA Memorial Boulevard at Finger Lake Road.
- Due to influx of large amount of traffic volumes during the fair, it is recommended law enforcement be provided to control traffic at these study intersections during the fair and during special events.

It is worth reiterating that the main Jacksonville Agricultural Fair event typically spans for only a twelve-day period in a year between mid-October and mid-November. During this period the City utilizes the services of the Jacksonville Sheriff's Office to manage traffic flow and manually control traffic signals at the major streets and direct traffic at unsignalized locations for streets surrounding the Fairgrounds. In addition, the Fair employs volunteer staff to assist in controlling traffic entering and exiting the parking lots. With these services, traffic congestion at the events is usually minimized.

SUBJECT: **RFQ FOR DESIGN BUILD SERVICES FOR JACKSONVILLE FAIRGROUNDS RELOCATION PROJECT**

BID # **CDB-0053-22** **OPEN DATE: 03/09/2022**

COMPETITIVE SEALED PROPOSAL EVALUATION COMMITTEE

KIND AND BASIS OF CONTRACT: CONSTRUCTION – DESIGN/BUILD

AGENCY: **DEPARTMENT OF PUBLIC WORKS**

BASIS OF AWARD: **EVALUATION CRITERIA**

NUMBER OF BIDS INVITED: 7 **NUMBER RECEIVED:** 3 **OTHER:** 0

SUMMARY OF BIDS AND RECOMMENDED ACTIONS:

Recommend approval to amend the award with J.B. Coxwell Contracting, Inc., to incorporate the Scope & Fee, Exhibit C, known as Amendment 2, to provide 60% design services and construction costs for clearing and earthwork for Phase 1 in the amount $5,087,506.28, which includes $372,906.41 in contingency. Total Revised amount is $5,847,716.22.

Funding Source: 32111.153103.565031.010411.00000000.00000.0000000 - $1,238,214.43
32111.153103.565051.010411.00000000.00000.0000000 - $3,849,291.85 - To be executed by formal amendment and encumbered via PO

ATTACHMENTS: Recommendation Memo, Exhibit c, Previous Awards

ANALYST: JACLYN STAMOS

RESPECTFULLY SUBMITTED: DUSTIN FREEMAN, CHIEF PROCUREMENT DIVISION

CONCURRENCE BY: **Robin G. Smith, Chief, Engineering and Construction Management**

(ALL AWARD ACTIONS SUBJECT TO LAWFULLY APPROPRIATED FUNDS)

ACTION OF CSPEC COMMITTEE ON RECOMMENDATIONS ABOVE

MEMBERS APPROVING 5 MEMBERS DISAPPROVING 0 DATE: 3/30/2023

OTHER

ACTION OF AWARDING AUTHORITY DATE 3/30/23

APPROVED ✓ DISAPPROVED:

OTHER:

SIGNATURE OF AUTHENTICATION

Brian Hughes
Chief Administrative Officer
For: Mayor Lenny Curry
Under Authority of:
Executive Order No: 2019-02

SUBJECT: RFQ FOR DESIGN BUILD SERVICES FOR JACKSONVILLE FAIRGROUNDS RELOCATION PROJECT

BID # CDB-0053-22 **OPEN DATE: 03/09/2022**

COMPETITIVE SEALED PROPOSAL EVALUATION COMMITTEE

KIND AND BASIS OF CONTRACT: CONSTRUCTION – DESIGN/BUILD

AGENCY: DEPARTMENT OF PUBLIC WORKS

BASIS OF AWARD: EVALUATION CRITERIA

NUMBER OF BIDS INVITED: 7 **NUMBER RECEIVED:** 3 **OTHER:** 0

SUMMARY OF BIDS AND RECOMMENDED ACTIONS:

The City of Jacksonville entered into negotiations with J.B. Coxwell Contracting, Inc., for the Design-Build Services Jacksonville Fairgrounds Relocation to provide predesign services and a conceptual project milestone schedule.

Recommend approval of award to J.B. Coxwell Contracting, Inc., in the guaranteed maximum price not-to-exceed $160,824.79. Exhibit A incorporates the attached scope and fee summary. The total estimated design time will be 120 days from the Notice to Proceed.

Funding Source: 32111.153103.565031.010411.00000000.00000.0000000 - To be executed by formal contract and encumbered via PO

ATTACHMENTS: Recommendation Memo, Exhibit A, Evaluation Criteria, Previous Awards

ANALYST: JACLYN STAMOS **RESPECTFULLY SUBMITTED:** GREGORY PEASE, CHIEF PROCUREMENT DIVISION

CONCURRENCE BY: **Robin G. Smith, Chief, Engineering and Construction Management**

(ALL AWARD ACTIONS SUBJECT TO LAWFULLY APPROPRIATED FUNDS)

ACTION OF CSPEC COMMITTEE ON RECOMMENDATIONS ABOVE

MEMBERS APPROVING 5 MEMBERS DISAPPROVING 0 DATE: 9/1/2022

OTHER

ACTION OF AWARDING AUTHORITY DATE 9/1/2022

APPROVED ✓ DISAPPROVED:

OTHER:

SIGNATURE OF AUTHENTICATION

Brian Hughes
Chief Administrative Officer
~~For: Mayor Lenny Curry~~
Under Authority of:
Executive Order No: 2019-02

SUBJECT: RFQ FOR DESIGN BUILD SERVICES FOR JACKSONVILLE FAIRGROUNDS RELOCATION PROJECT

BID #: CDB-0053-22 OPEN DATE: 3/09/2022

COMPETITIVE SEALED PROPOSAL EVALUATION COMMITTEE

KIND AND BASIS OF CONTRACT: CONSTRUCTION – DESIGN/BUILD

AGENCY: DEPARTMENT OF PUBLIC WORKS

BASIS OF AWARD: EVALUATION CRITERIA

NUMBER OF BIDS INVITED: 7 NUMBER RECEIVED: 3 OTHER: _

SUMMARY OF BIDS AND RECOMMENDED ACTIONS:

Public Works conducted interviews with the top three (3) highest scoring firms on April 28, 2022. Based on a combination of proposal and presentation evaluations, scores and ranking are as outlined below. Recommend approval to enter into negotiations with the top ranked firm, J.B. Coxwell Contracting, Inc.

2. Ajax Building Co. LLC	116.5
1. J.B. Coxwell Contracting, Inc.	118.5
3. Phillips and Jordan, Inc.	101

Attachments: Recommendation Memo, Tabulation and Scoring Matrix, Evaluation Criteria

ANALYST Annette Burney

RESPECTFULLY SUBMITTED GREGORY PEASE, CHIEF PROCUREMENT DIVISION

CONCURRENCE BY: Robin G. Smith P.E. Chief, Engineering and Construction Management

(ALL AWARD ACTIONS SUBJECT TO LAWFULLY APPROPRIATED FUNDS)

ACTION OF CSPEC COMMITTEE ON RECOMMENDATIONS ABOVE

MEMBERS APPROVING 5 MEMBERS DISAPPROVING 0 DATE: 5/19/2022

OTHER

ACTION OF AWARDING AUTHORITY DATE 5-20-2022

APPROVED ✓ DISAPPROVED:

OTHER:

SIGNATURE OF AUTHENTICATION

Brian Hughes
Chief Administrative Officer
For Mayor Lenny Curry
Under Authority of
Executive Order No 2019-02