Addendum 2

Jackson County
Gum Springs Park– Phase 1

This Addendum is hereby made a part of the Contract Documents.

BID FORM REVISED - See Attached Specification 00300 Bid Proposed Form

Questions and Answers

1. Q: Is the Musco Specification 26 5668 - Exterior Athletic Lighting required for this phase of the project?
   A: The sports lighting specifications 26 5668 are for reference only. The sports lights will be installed in Phase 2. The conduit and pull boxes for the sports lights will be installed in this phase.

2. Q: What is the type of fixture and pole height for the pedestrian lights? Where is the electrical tie-in for the pedestrian lights?
   A: The basis of design for the pedestrian light fixture is King Luminaire K118 Washington or approved alternate. The basis of design for the pedestrian light pole is King Luminaire KSB19 The Cleveland Jr (10') or approved alternate. The electrical tie-in for the pedestrian light poles is shown on C-5.0 behind the proposed restroom building.

3. Q: Is the infield mix/pitcher's mounds, bases, etc. required for the baseball fields or is it to be all covered by sod?
   A. The infield mix, pitcher mounds, bases, etc. are not included in this phase of the project. Install sod per C-6.6.

4. Q: If no infield mix is required, is there an allowance made in the grading for the future infield installation?
   A. Grade per C-4.0.

5. Q: If sod is installed on the infields, does the irrigation installation make allowances for future infield installation?
   A: Contractors should provide irrigation for all sodded areas on the sports fields. The irrigation should be laid out to allow the irrigation system to be removed in the infield areas in the future phase of the project.

6. Q: In Section 33 4600 of the specs, it mentions subsurface drainage for the multipurpose field, but there are no lateral lines shown on the drawings. Is a subsurface system required for the entire field? Is it design build for the drainage system?
   A: The subsurface drainage system has been removed from the multipurpose field in this phase of the project.

7. Q: Would it be possible to get 1H: 1V profiles for the retaining walls?
   A: See C-7.2 for proposed retaining wall profiles.

8. Q: Wall B & C need to tie into the final grade. They cannot be 4' to 5' at the ends of these walls.
   A: The wall profiles and layout have been revised to tie into the proposed grade. The wall profiles are provided for a guide only for the contractor. The contractor will need to provide wall plans to the County for review before beginning wall construction.

9. Q: The civil engineer needs to check to see if the Sleeve-It fence system can be installed with the "fence wing load" as noted on Sheet C-8.3.
   A: The Sleeve-It fence system was called out for the basis of design for the project. The contractor can use the system or another system for the retaining walls system as long as it meets the required fence wind load.

Attachments:

1. Revised Specifications
   - 00300 Bid Proposal Form
   - 01 2200 Unit Prices
   - King Luminaire K118 Washington light fixture spec
   - King Luminaire KSB19 The Cleveland Jr. light pole spec

2. Revised Civil Plans
   - The parking lot was removed from this phase of the project. All items related to the parking lot including but not limited to earthwork, stormwater drainage, curb & gutter, paving, striping, erosion control, details and Jackson EMC lighting have been removed from this phase of the project. The new disturbed area for the project is 19.48 AC.
   - C-2.0- Demo of the existing road to the W. Jackson Middle School has been removed.
   - C-3.0 - The parking lot has been removed.
   - C-4.0- The grading and stormwater for the parking lot has been removed.
   - C-5.0- Service Point for the pedestrian lights shown behind the proposed restroom building location. Fire Hydrant location has been revised.
   - C-6.4 to C-6.6- The erosion control for the parking lot has been removed.
   - C-7.2 - Wall B and Wall C Profiles have been revised.

END OF ADDENDUM 2

Section 00300
Bid Proposal Form

Part 1 - General

1.1 DESCRIPTION: Following this page is the Bid Proposal Form to be used by each Bidder for preparing and submitting a Bid for the Work of this Project.

1.2 **ONLY THE FOLLOWING FORM SHALL BE USED**. No other form or forms are acceptable. The use of any other Bid Proposal Form or modification of any kind to the required form (except where noted or required to do so, or by the Contractor's signature of the Bid Proposal Form) shall cause the Bid to be non-responsive and cause for rejection by Jackson County.

1.3 Interested Bidders are required to attend the scheduled Pre-Bid Conference, at the date and time indicated in Section 00020, Invitation for Bids.

1.4 BID TIMES AND DATES Each interested Bidder shall fully acquaint themselves with the particular date and time for submittal of a Bid. Each interested Bidder shall be fully and solely responsible for the timely and proper delivery of their Bid at the required location by the time indicated.

1.5 Each Bidder shall complete, sign and otherwise properly execute the Bid Proposal Form, and shall include and attach all other forms, exhibits, statements and other documents required to be submitted with the Bid Proposal(s).

1.6 All contractors submitting a bid for the work of this project, at any individual and separate park project, shall be a registered LICENSED GEORGIA GENERAL CONTRACTOR.

1.7 DETERMINATION OF SUCCESSFUL BIDDER: The Contract will be awarded by Jackson County based upon the most responsive Bid from the most responsible Bidder, if awarded, as determined solely by the review and evaluation conducted by Jackson County.

A. **RESPONSIBILITY:** The determination of the Bidder's responsibility will be made by Jackson County, based on whether the Bidder, as a minimum:

(1) Maintains a permanent place of business, having the same business name over the last 10 years
(2) Has the appropriate and adequate technical **experience in projects of similar scope and size.**
(3) Has adequate capacity, personnel and equipment **experienced in projects of similar scope and size** to do the work properly and expeditiously,
(4) Has suitable financial means, including all required bonds and insurance, to meet obligations incidental to the work.

(5) **Has a satisfactory performance record with Jackson County,** and other public and private agencies or authorities, and/or other clients. The Bidder shall furnish to Jackson County all such information and data for this purpose as Jackson County may request. Jackson County reserves the right to reject any Bid if the evidence submitted by, or investigation of, the Bidder fails to satisfy Jackson County that the Bidder is properly qualified to carry out the obligations of the Contract; or if the Bidder fails or refuses to supply the requested data or information in the manner and time set forth by Jackson County.

B. **RESPONSIVENESS:** The determination of responsiveness will be made by Jackson County based on a consideration of whether the Bidder has submitted a complete Bid Proposal Form and accompanying required documents, or later requested documentation, without irregularities, excisions, special conditions, or alternative Bids for any item unless specifically requested in or allowed by the Bid Proposal Form.

C. Contractors and Bidders submitting a Bid Proposal to Jackson County for this project understand and accept the above requirements for review and selection by Jackson County, and therefore agree that should a Contractor and Bidder who has submitted a Bid Proposal be determined to not meet the above requirements, and is therefore NOT selected, such non-selection by Jackson County shall not be a cause of action by any such non-selected Contractor of Bidder.

PROJECT: Gum Springs Park

TO: JACKSON COUNTY BOARD OF COMMISSIONERS
Jackson County Public Development
67 Athens Street, Jefferson, GA 30549

FROM: **BIDDER'S NAME AND ADDRESS:**

_____

_____

_____

_____

INFORMATION AND INSTRUCTIONS

The undersigned, as Bidder, hereby declares that the only person or persons interested in the Bid Proposal as principal or principals is or are named herein and that no other person than herein mentioned has any interest in this Proposal or in the Contract to be entered into; that this Bid Proposal is made without connection with any other person, company or parties making a Bid or Proposal; and that it is in all respects fair and in good faith without collusion or fraud.

The Bidder further declares that he has visited and carefully examined the Site of the Work and has thoroughly informed himself fully in regard to all conditions pertaining to the place where the Work is to be done; that he has examined the Bid Proposal Form, Bidding Requirements and Conditions, the Project Manual, the Construction Agreement, Drawings and Specifications and any Addenda for the Work, and all other Bidding and Contract Documents relative thereto, and has read all instructions to Bidders and Conditions and Requirements furnished prior to the openings of Bids; and that he has satisfied himself relative to the work to be performed.

THEREBY, the Bidder proposes and agrees, if his Bid is accepted, to contract with Jackson County, in the form of contract specified, to execute and perform as required, to furnish all necessary materials, plant and equipment, machinery, tools, apparatus, hoisting, hauling, delivery and means of transportation and labor necessary, overhead & profit, and to complete the Work and to cooperate and coordinate its required work in full and complete accordance with the shown, noted, and reasonably intended requirements of the Construction Agreement and the Contract Documents, including but not limited to the Project Manual, Drawings and Specifications to the full and entire satisfaction of Jackson County with a definite understanding that no money will be allowed for extra work except as set forth in the Contract Documents or for the agreed upon unit prices, if any, and to perform its respective duties and responsibilities in accordance with the contract documents, and instructions and directives of Jackson County.

The Bidder agrees hereby to commence work under this Contract, with adequate project and construction management and superintending personnel and equipment, on the date to be specified in a written Notice to Proceed from Jackson County, and to fully complete all work under this Contract within the specified and agreed upon schedule.

The Bidder further declares that he understands that the quantities shown for the unit prices items, if any, are subject to both increases or decreases, and that should the quantities of any of the items of Work be increased or decreased, the Bidder proposes to do the additional work at the unit prices stated herein; and the Bidder also understands that payments will only be made on the basis of actual quantities, at the unit price Bid and the Contractor will make no claim for anticipated profits for any decrease in quantities; and that actual quantities will be mutually determined upon completion of work, at which time adjustments will be made to the contract amount by direct increase or decrease.

Jackson County reserves the sole right to select which Bid it desires, based upon those factors Jackson County considers relevant and necessary for that final determination and selection, including, but not limited to price, schedule, qualifications, capacity and capabilities of the Contractor, acceptance or rejection of any alternative(s), and technical coordination elements concerning the project as a whole.

ADDENDA

Bidder acknowledges receipt of Addenda:

_____Dated:_____; _____Dated:_____;

_____Dated:_____; _____Dated:_____;

_____Dated:_____; _____Dated:_____;

_____ Dated:_____; _____Dated:_____;

1. UNIT PRICES:

The following Unit Prices are amounts to be used for work that will be **ADDED TO OR DELETED FROM** the Contract by Change Order as and when unsuitable soils and other materials occur in the performance of the work of this Project, and in the event such additional work may also be required.

All Unit Prices are inclusive and complete for labor, equipment, material, mobilization and associated time for the work of each unit price for site operations, installation, applicable taxes, supervision, bonds and insurance, management & supervision, overhead and profit, and all other incidental costs; and are **applicable at any point or location at and within the Project.** Units will be measured in place by Jackson County or the project's materials testing and consulting firm, as the work progresses or upon completion of the work.

Jackson County reserves the sole right to accept or reject these Unit Prices or to require the Work to be performed on a time and material basis with complete daily breakdowns and logs submitted, or to have the work performed for an agreed upon lump sum price.

#	Item	Unit	Unit Cost
1	Remove and Haul-Off Unsuitable Soil, Replace with Suitable Soil	CY	$
2	Remove and Haul-Off Unsuitable Soil, Replace with #57 Stone	CY	$
3	Remove and Haul-Off Unsuitable Soil	CY	$
4	Tifway 419 Bemuda Sod	SF	$
5	Silt Fence	LF	$
6	4" Concrete Sidewalk	SF	$
7	Vinyl Fence	LF	$
8	Conduit	LF	$
9	Pull Boxes	EA	$

2. ALLOWANCES

1. OWNER'S 10% CONTINGENCY : Lump Sum Amount by Contractor.

3. BASE BID PRICE OR BASE BID PROPOSAL:

The undersigned, having become thoroughly familiar with terms and conditions of the proposed Contract Documents affecting the contract with and from Jackson County, hereby proposes and agrees to fully provide and to perform the work identified for the work of this Project within the time stated and in accordance with the Contract Documents, including furnishing any and all services, delivery, hoisting, hauling, labor, materials, plant and equipment, overhead & profit, and to do all the work required to perform and complete said work in accordance with the Contract Documents for the following sum or sums.

NOTE: Prior to award, and as a part of the evaluation of the Bid, the Bidder shall forward to Jackson County a complete itemized breakdown of services, materials and labor within forty-eight (48) hours of the request by Jackson County, through the Architect or Engineer to furnish such information.

PROPOSAL AMOUNT LINE ITEM COST.

General		
1	General Requirements	$
2	Fees, Bonds, Insurance, Etc.	$
3	Staking and As-builts	$
Earthwork		
4	NPDES Monitoring	$
5	Erosion Control	$
6	Clearing and Grubbing	$
7	Grading (Mass Grading, Backfilling, Fine Grading, Etc.)	$
8	Design-Build Retaining Walls and Railings	$
9	Storm Drainage	$
10	Sanitary Sewer	$
11	Water System (Domestic and Fire)	$
12	Detention Pond Fencing, Gates, and Signage	$
13	Sidewalk	$
Roadway Improvements		
14	6’ Sidewalk	$
15	Vinyl Fencing	$
16	Landscaping	$
17	Design-Build Irrigation	$
18	Pedestrian Lights	$
Baseball Fields		
19	Tifway 419 Bemuda Sod	$
20	Design-Build Irrigation	$
Multi-Purpose Field		
21	Tifway 419 Bemuda Sod	$
22	Design-Build Irrigation	$
Sports Field Lighting		
23	Conduit & Pull Boxes	$
Owner Contingency		
24	Owner’s Contingency (10% of Items 1-23)	$
	BASE BID TOTAL (TOTAL OF ITEMS 1-24)	**$**

LUMP SUM BASE BID PROPOSAL AMOUNT: Complete for all Work of this Project: INCLUDING ALLOWANCES;

_____Dollars ($_____)

which Sum is hereinafter called the "Lump Sum Base Bid Proposal"

BID BOND:
A Bid Bond, in an amount not less than five percent (5%) of the above total submitted Gum Springs Park Bid Proposal amount is required to be submitted with this Bid Proposal.

Submission of the Bid Bond is mandatory, and is separate and apart from any requirements or acceptance of the Performance and Labor & Material Payment Bond. Any Bidder's inability to provide a Performance and Labor & Material Payment Bond shall deem that Bid Proposal to be non-responsive, and that Bidder to be non-responsible to perform the Work of the Bid Proposal; and the Bid Proposal rejected by Jackson County, with penalty against the Bidder.

4. **TIME OF COMMENCEMENT AND COMPLETION:** Bidder hereby agrees to commence and to perform all necessary coordination and Work of this Project with the design work and services of Jackson County and the Architect or Engineer, to commence fabrication, to commence delivery, and to commence actual physical work on the site with an adequate force and equipment and proper supervision and management on the date to be specified in the written order of the Notice to Proceed, and to substantially complete and final complete the work by the dates stated in the Project Manual

5. **WITHDRAWAL OF BID(S):** The Undersigned acknowledges and agrees that this Bid may not be revoked or withdrawn after the time set for the opening of Bids, and will remain open for acceptance by Jackson County for a period of Ninety (90) calendar days following such time.

6. **PERFORMANCE AND LABOR & MATERIALS PAYMENT BOND:** The Contractor shall upon award furnish to Jackson County **Performance and Labor & Material Payment Bonds** to Jackson County, the Undersigned's surety will be:

_____,
and the Undersigned agrees that upon receipt of Jackson County's Notice of Award, the Contractor will, within ten (10) days of receipt of the Notice of Award with accompanying Agreement and requirements for bonds and insurance, execute the formal Contract, and will deliver all required Bonds for the faithful performance of this Contract and such other required information, representations and insurance certificates and polices. The Undersigned further agrees that if he fails or neglects to appear or execute or deliver within the specified time to execute the Contract of which this Proposal, the Bidding Documents and the Contract Documents are a part, the Undersigned will be considered as having abandoned the Contract, and Jackson County shall proceed to take action to review and recommend the next responsive and responsible Bid.

7. **VOLUNTARY ALTERNATES:** If a Bidder has determined that an alternative method, practice or specification would be beneficial to the project, the Bidder is encouraged to submit such a proposed Voluntary Alternative for consideration by Jackson County. Reference is made to SECTION 01630 SUBSTITUTIONS for guidance in submitting Voluntary Alternates information. However, the Bidder is cautioned that the base Bid proposal prices MUST fully and completely comply and meet the requirements of the Contract Documents. Unless so noted in the submittal of a Voluntary Alternate, the Bid prices received by Jackson County from the Bidder are for the requirements set forth by the documents. Submission of any Voluntary Alternates shall be submitted on the Contractor's letterhead, fully and completely presenting

the alternate(s), with all required supporting documentation.

8. **CHANGES IN THE WORK:** The Bidder agrees that should additional compensation be requested, the Bidder/Contractor will submit complete itemized material and labor breakdowns for evaluation by Jackson County For deleted work, the Contractor's offered credits shall be INCLUSIVE of overhead and profit.

CONFIRMATION OF BASE BID PROPOSAL COST OF WORK: The undersigned Bidder agrees that it shall promptly after the receipt of Bids by Jackson County, and upon request by Jackson County, provide additional information to Jackson County and shall meet with Jackson County and the Architect or Engineer for purposes of confirming the Bidder's understanding and acceptance of the scope of work and the Bid submitted by the Bidder. It is further understood and agreed that should such post-Bid contact and price confirmation information and meeting(s) not confirm an agreeable contact scope of work and price, that Jackson County may, at its sole discretion, proceed to reject the Bid and take steps to re- Bid the work, in whole or in part, or to award the work to the next most responsible Bidder, with the most responsive Bid.

9. **RESPECTFULLY SUBMITTED:**

If an Individual, by: _____

Doing Business as: _____

Business Address: _____

If a Joint Venture, LLC. or Partnership:

By: _____ Member of Firm: _____

By: _____ Member of Firm: _____

By: _____ Member of Firm: _____

Business Address: _____

If a Corporation: (Seal REQUIRED, If Bid is by Corporation)

By: _____ Title: _____

Business Address: _____

10. **ENCLOSURES AND ATTACHMENTS TO BE SUBMITTED WITH THIS BID PROPOSAL FORM (Section 00300) INCLUDE:**

- **E-Verify Forms**
- Non-Influence and Non-collusion Affidavit (Section 00325)
- Bid Bond; (Section 00410)
- Certificate of Ability to Provide Performance and Labor & Material Payment Bond (Section 00415)
- Contractor's Certificate as Individual, or as Partnership, or as Corporation (Section 00420.)
- General Contractor's License Certification or Number (Georgia) (Section 00425.)
- Contractor's Authorized Permit Agent Form (Section 00430)
- Certification as to Review and Acceptance of Construction Agreement (Section 00850)
- Contractor's Qualifications Statement (Section 00860)

END OF BID PROPOSAL FORM

END OF SECTION

Section 01 2200
Unit Prices

Part 1- General

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

A. This section includes administrative and procedural requirements for unit prices for work above and beyond that shown in the contract documents.

1.3 DEFINITIONS

A. Unit price is an amount incorporated in the Agreement, applicable during the duration of the Work as a price per unit of measurement for materials, equipment, or services, or a portion of the Work, added to the scope of Work or estimated quantities of Work required by the Contract Documents.

B. Rock shall be defined as material that cannot be ripped by a single tooth ripper.

1.4 PROCEDURES

A. Unit prices include all necessary material, plus cost for delivery, installation, insurance, applicable taxes, overhead, and profit.

B. Measurement and Payment: Refer to individual Specification Sections for work that requires establishment of unit prices. Methods of measurement and payment for unit prices are specified in those Sections. Rock will be measured via survey cross section prior to removal and after removal to determine the quantity. Unit price will include surveying for quantity determination.

C. Owner reserves the right to reject Contractor's measurement of work-in-place that involves use of established unit prices and to have this work measured, at Owner's expense, by an independent surveyor acceptable to Contractor.

D. List of Unit Prices: A schedule of unit prices is included in Part 3. Specification Sections referenced in the schedule contain requirements for materials described under each unit price.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION

3.1 SCHEDULE OF UNIT PRICES

#	Item	Unit	Unit Cost
1	Remove and Haul-Off Unsuitable Soil, Replace with Suitable Soil	CY	
2	Remove and Haul-Off Unsuitable Soil, Replace with #57 Stone	CY	
3	Remove and Haul-Off Unsuitable Soil	CY	
4	Tifway 419 Bermuda Sod	SF	
5	Silt Fence	LF	
6	4” Concrete Sidewalk	SF	
7	Vinyl Fence	LF	
8	Conduit	LF	
9	Pull Boxes	EA	

END OF SECTION

K118 WASHINGTON - LED

The King Luminaire K118 Washington is a beautiful depiction of this street light classic. This historical acorn shape teamed with King Luminaire's high performance LED engines make for a perfect solution for city streets, parks, schools and commercial areas.

King Luminaire

PRODUCT SPECIFICATIONS

R1/B3/B2 LED ENGINE
Light engine shall be an array of 36, 42, 54 or 63 solid state Cree X-Series high power LEDs (light emitting diodes) mounted to a multi-sided, vertical heat sink of highly conductive aluminum. The LED emitters are mounted to removable circuit boards such that they are in full thermal contact with the vertical heat sink. The vertical heat sink is open at the bottom and vented at the top to provide appropriate dynamic airflow cooling for the LED array. The emitters are arranged in various patterns on each face of the vertical heat sink to provide the required light distribution.

The LED arrays include optical baffles constructed of optical grade ABS plastic with a vacuum metallized reflective surface or clear acrylic precision refractors over each diode. Optical options are designed to efficiently control light distribution in IESNA Type IV & V for the B3/B2 and Type III & V for the R1.

P4 LED ENGINE
Light engine shall include an array of Cree X-Series high power LEDs (light emitting diodes). The emitters shall be mounted to a metal core circuit board using SMT technology. The LEDs and circuit boards shall then be mounted to a high performance heat sink.

External light control shall consist of high precision refractive lenses mounted above the LED emitter arrays in such a way to achieve optimum uplight control. The lenses shall also control horizontal light distribution so that either Type II, III, IV or V IESNA distribution patterns are achieved.

LUMINAIRE CONSTRUCTION
All K118 Washington cast components shall consist of a heavy grade A319 cast aluminum. The main body or capital acts as an enclosure for the driver assembly and is of adequate thickness to give sufficient structural rigidity. The capital shall have an opening at the base tenon body to allow the luminaire to be mounted to a tenon of 3-1/2" maximum diameter. The luminaire shall be locked in place by means of heavy duty, stainless steel set-screws.

GLOBE ASSEMBLY
The protective globe shall be molded of either; rippled polycarbonate Miles Makrolon GP/OP Thermoplastic Polymer, or equivalent, or rippled acrylic Acrylite Plus Acrylic Polymer, or equivalent, having a minimum thickness of 0.125".

The globe assembly is a self-contained unit consisting of the globe, rugged cast locking ring, and the LED light engine and optical control. The LED light engine is of a modular design, and is able to be quickly removed from the globe assembly. The globe assembly is secured to the main housing by means of a spring-tensioned, twist-locking Rotolock™ unit to allow tool-less removal of the globe, while maintaining a secure seal between the globe assembly and the main body of the luminaire, making the K118 Washington suitable for an outdoor environment.

DRIVER
The LED universal dimmable driver will be class 2 and capable of 120 - 277V or 347 - 480V input voltage, greater than 0.9 power factor, less than 20% total harmonic distortion. The case temperature of the driver can range from -40°C up to 70°C. Each LED system comes with a standard surge protection designed to withstand up to 20kV/10kA of transient line surge as per IEEE C62.41.2 C High. An in-line ferrite choke is utilized to provide protection against EFT's. The driver assembly will be mounted on a heavy duty fabricated galvanized steel bracket to allow complete tool-less maintenance.

PHOTOMETRICS
Fixtures are tested to IESNA LM79 specifications. These reports are available upon request.

CHROMATICITY
High output LEDs come standard at 3000K & 4000K (+/- 300K) with a minimum nominal 70 CRI. Additional CCT emitters are available upon request.

LUMEN MAINTENANCE
Reported (TM21) and Calculated (L70) reports are available upon request with a minimum calculated value of 100,000 hrs.

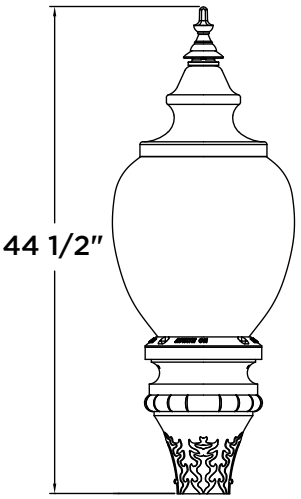
WIRING
All internal wiring and connections shall be completed so that it will be necessary only to attach the incoming supply connectors to Mate-N-Lok connectors or to a terminal block. Mate-N-Lok shall be certified for 600V operation. Internal wire connectors shall be crimp connector only and rated at 1000V and 150°C. All wiring to be CSA certified and/or UL listed, type SFF-2, SEWF-2, or SEW-2 No. 14 gauge, 150°C, 600V, and color coded for the required voltage.

THERMALS
Fixtures tested by a DOE sanctioned test facility to determine the maximum in-situ solder-point or junction-point temperatures of the LED emitters. This report is available upon request.

FINISH
Housing is finished with a 13 step KingCoat™ SuperDurable polyester TGIC powder coat. Standard colors include strobe white, brown metal, marina blue, gate gray, Chicago bronze, standard gold, standard black, federal green and rain forest. Please see our website for a complete list of colors. RAL and custom color matches are available.

MISCELLANEOUS
All exterior hardware and fasteners, wholly or partly exposed, shall be stainless steel alloy. All internal fasteners are stainless steel or zinc coated steel. All remaining internal hardware is stainless steel, aluminum alloy, or zinc coated steel.

WARRANTY
The K118 Washington LED luminaire comes with a 7 year limited warranty.



CERTIFICATION:
CSA US Listed
Suitable for wet locations
ISO 9001
IP66
ARRA Compliant
LM79 / LM80 Compliant

DRIVER INFO:
>0.9 Power Factor
<20% Total Harmonic Distortion
120 - 277V & 347 - 480V
-40°C Min. Case Temperature
70°C Max. Case Temperature
Surge Protection: ANSI C136.2 extreme level 20kV/10kA

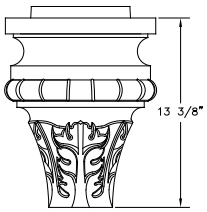
EPA:
1.53 sq. ft.

FIXTURE WEIGHT:
38 lbs

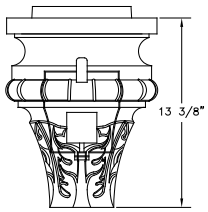
Not all product variations listed on this page are DLC qualified.
Visit www.designlights.org/search to confirm qualification.
Contact King Luminaire for product specifications that are exempt from CSA Certification.
1-30-2020

FIXTURE OPTIONS

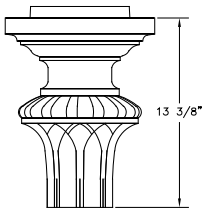
Capital Options



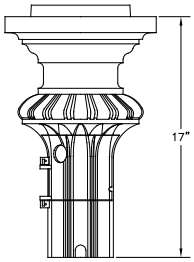
K13



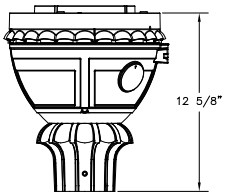
K14 C/W PR



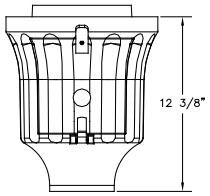
K16



K18 C/W PR

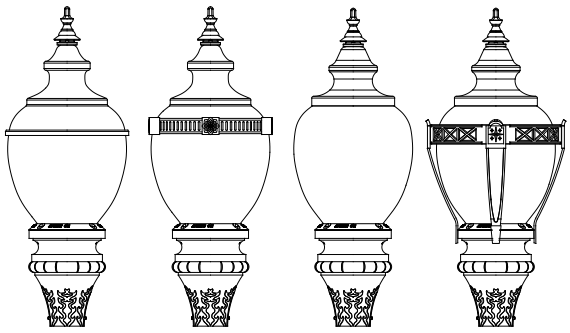


K26 C/W PR



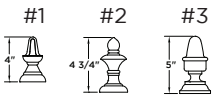
K24 C/W PR

Decorative Options:



CONTEMPRA RING | GE RING | SOLID SPUN ALUMINUM TOP | WESTINGHOUSE RING & STRUTS

Finial Options:



HOW TO ORDER

LUMINAIRE STYLE
K118R - Washington

IES LIGHTING CLASSIFICATION
II - Type 2 (P4)
III - Type 3 (B2, R1, P4)
IV - Type 4 (B3, P4)
V - Type 5 (B3, R1, P4)

SOURCE
SSL - Solid State

SERIES
1030 (40 - 100W P4)
1036 (40 - 75W B3)
1042 (40 - 75W B2, R1)
1054 (100W B3)
1063 (100W B2)
1063 (100 - 120W R1)

LINE VOLTAGE
120V (120-277)
480V (347-480)*

*Select wattages available within this range, contact King Luminaire

CAPITAL
K13, K14, K16
K18, K26, K24

*Additional options available on website

CCT
3K - 3000K
4K - 4000K

DECORATIVE OPTIONS
GE - GE Ring Only
CR - Contempra Ring Only
SST - Solid Spun Top
WRS - Westinghouse Ring & Struts

PAINT COLOR
GN - Federal Green
BE - Blue
GY - Gray
BN - Brown
BK - Black
BZ - Bronze

*Additional options available on website

K118R - [ ] - [ ] - [ ] - (SSL) [ ] - [ ] - [ ] - [ ] - [ ] - [ ] - [ ] - [ ] - [ ] - [ ]

WATTAGE
40, 60, 75, 100, 120
*120 only available in R1

OPTICAL OPTIONS
B2 - B2 Optic (Baffled Array)
B3 - B3 Optic (Baffled Array)
R1 - R1 Optic (Refractive Array)
P4 - P4 Optic (Flat Array)

LENS OPTIONS
AR - Acrylic Rippled
PR - Polycarbonate Rippled

PHOTO CONTROL OPTION
PR - Photo Receptacle
Available with K14, K18, K26 & K24

PE - Photo Receptacle and Photo Eye
Available with K14, K18, K26 & K24

PEBC - Photo Electric Buttoncell

*leave blank if not required

CONNECTION
Quick Disconnect is standard. If terminal block is required, please specify TB

FINIAL OPTIONS
#1, #2, #3

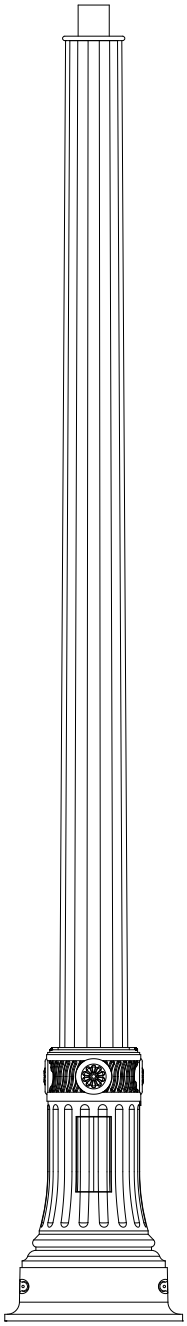
*Finial #1 is standard. Additional options available on website

WATTAGE SELECTOR
WS - Wattage Selector

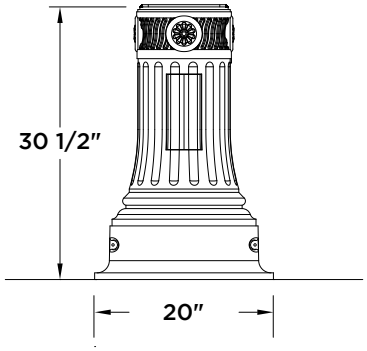
* leave blank if not required

KSB19 // The Cleveland Jr.
Pedestrian Metal Pole

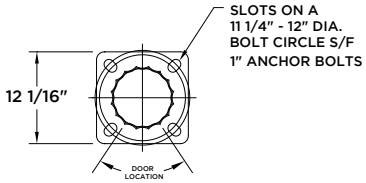
King Luminaire



Decorative Base Cover:



Baseplate:



Specifications:

Pole Shaft Options:
Available as Fluted Extruded (FE) 16 flute non-tapered in aluminum, Round Extruded (RE) non-tapered in aluminum, Form Fluted (FF) 16 flute tapered in aluminum or steel and Round Formed (RF) tapered in aluminum or steel.


Fluted Extruded (FE)


Round Extruded (RE)


Form Fluted (FF)


Round Formed (RF)

Decorative Base Cover:
Cast aluminum clam shell with maximum shaft opening of 9.125".

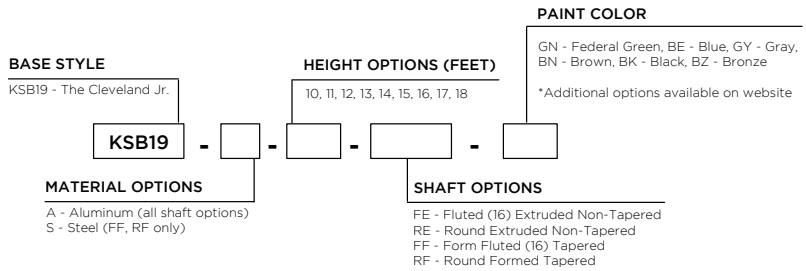
Base Weight*:
49 lbs
*Consult Shaft Detail Charts below for pole shaft weight

Finish:
Available in textured or smooth.

Options:

GFI > Ground Fault Receptacle
BA > Banner Arms
FPH > Flower Pot Holder
FH > Flag Holder

How to Order:



FE ALUMINUM // Shaft Details

							90 MPH		100 MPH		110 MPH		120 MPH		150 MPH		
Catalog Number	Ht. (ft)	Butt (in)	Tip (in)	Tenon	Wall Thickness (in)	Wt. (lbs)	Max EPA (sq ft)	Max Load (lbs)	Max EPA (sq ft)	Max Load (lbs)	Max EPA (sq ft)	Max Load (lbs)	Max EPA (sq ft)	Max Load (lbs)	Max EPA (sq ft)	Max Load (lbs)	Anchor Bolt Dia. (in)
KSB19-A-10-FE	10	5.25	5.25	3.5" x 3.5"	0.25	46	16.8	500	13.3	500	10.7	500	8.8	500	5.2	500	0.75
KSB19-A-11-FE	11	5.25	5.25	3.5" x 3.5"	0.25	50	14.7	500	11.6	500	9.3	500	7.6	500	4.4	500	0.75
KSB19-A-12-FE	12	5.25	5.25	3.5" x 3.5"	0.25	55	12.9	500	10.1	500	8.1	500	6.6	500	3.7	500	0.75
KSB19-A-13-FE	13	5.25	5.25	3.5" x 3.5"	0.25	59	11.4	500	8.9	500	7.1	500	5.7	500	3.1	500	0.75
KSB19-A-14-FE	14	5.25	5.25	3.5" x 3.5"	0.25	64	10.1	500	7.8	500	6.1	500	4.9	500	2.6	500	0.75
KSB19-A-15-FE	15	5.25	5.25	3.5" x 3.5"	0.25	69	8.9	500	6.8	500	5.3	500	4.1	500	2.1	500	0.75
KSB19-A-16-FE	16	5.25	5.25	3.5" x 3.5"	0.25	73	7.8	500	5.9	500	4.5	500	3.5	500	1.6	500	0.75
KSB19-A-17-FE	17	5.25	5.25	3.5" x 3.5"	0.25	78	6.8	500	5.0	500	3.8	500	2.9	500	1.2	500	0.75
KSB19-A-18-FE	18	5.25	5.25	3.5" x 3.5"	0.25	82	5.8	500	4.2	500	3.1	500	2.3	500	0.8	500	0.75

RE ALUMINUM // Shaft Details

Catalog Number	Ht. (ft)	Butt (in)	Tip (in)	Tenon	Wall Thickness (in)	Wt. (lbs)	90 MPH		100 MPH		110 MPH		120 MPH		150 MPH		Anchor Bolt Dia. (in)
							Max EPA (sq ft)	Max Load (lbs)	Max EPA (sq ft)	Max Load (lbs)	Max EPA (sq ft)	Max Load (lbs)	Max EPA (sq ft)	Max Load (lbs)	Max EPA (sq ft)	Max Load (lbs)	
KSB19-A-10-RE	10	4.5	4.5	3.5" x 3.5"	0.25	39	15.7	500	12.3	500	10.0	500	8.3	500	5.1	500	0.75
KSB19-A-11-RE	11	4.5	4.5	3.5" x 3.5"	0.25	43	13.6	500	10.6	500	8.6	500	7.1	500	4.3	500	0.75
KSB19-A-12-RE	12	4.5	4.5	3.5" x 3.5"	0.25	47	11.9	500	9.2	500	7.4	500	6.0	500	3.6	500	0.75
KSB19-A-13-RE	13	4.5	4.5	3.5" x 3.5"	0.25	51	10.3	500	8.0	500	6.2	500	5.1	500	3.0	500	0.75
KSB19-A-14-RE	14	4.5	4.5	3.5" x 3.5"	0.25	55	9.0	500	6.8	500	5.3	500	4.3	500	2.5	500	0.75
KSB19-A-15-RE	15	4.5	4.5	3.5" x 3.5"	0.25	59	7.8	500	5.8	500	4.5	500	3.6	500	2.0	500	0.75
KSB19-A-16-RE	16	4.5	4.5	3.5" x 3.5"	0.25	63	6.9	500	5.3	500	4.0	500	3.2	500	1.7	500	0.75
KSB19-A-17-RE	17	4.5	4.5	3.5" x 3.5"	0.25	67	6.1	500	4.3	500	3.3	500	2.5	500	1.3	500	0.75
KSB19-A-18-RE	18	4.5	4.5	3.5" x 3.5"	0.25	71	5.2	500	3.5	500	2.5	500	1.9	500	0.9	500	0.75

FF ALUMINUM // Shaft Details

Catalog Number	Ht. (ft)	Butt (in)	Tip (in)	Tenon	Wall Thickness (in)	Wt. (lbs)	90 MPH		100 MPH		110 MPH		120 MPH		150 MPH		Anchor Bolt Dia. (in)
							Max EPA (sq ft)	Max Load (lbs)	Max EPA (sq ft)	Max Load (lbs)	Max EPA (sq ft)	Max Load (lbs)	Max EPA (sq ft)	Max Load (lbs)	Max EPA (sq ft)	Max Load (lbs)	
KSB19-A-10-FF	10	5.9	4.5	3.5" x 3.5"	0.182	33	11.9	500	9.4	500	7.6	500	6.2	500	3.6	500	0.75
KSB19-A-11-FF	11	6.04	4.5	3.5" x 3.5"	0.182	37	11.0	500	8.7	500	7.0	500	5.7	500	3.2	500	0.75
KSB19-A-12-FF	12	6.18	4.5	3.5" x 3.5"	0.182	41	10.2	500	8.0	500	6.4	500	5.1	500	2.8	500	0.75
KSB19-A-13-FF	13	6.32	4.5	3.5" x 3.5"	0.182	45	9.5	500	7.4	500	5.9	500	4.7	500	2.5	500	0.75
KSB19-A-14-FF	14	6.46	4.5	3.5" x 3.5"	0.182	49	8.8	500	6.9	500	5.4	500	4.3	500	2.2	500	0.75
KSB19-A-15-F	15	6.6	4.5	3.5" x 3.5"	0.182	54	8.3	500	6.4	500	5.0	500	3.9	500	1.9	500	0.75
KSB19-A-16-FF	16	6.74	4.5	3.5" x 3.5"	0.182	58	7.8	500	5.9	500	4.6	500	3.6	500	1.6	500	0.75
KSB19-A-17-FF	17	6.88	4.5	3.5" x 3.5"	0.182	62	7.2	500	5.5	500	4.2	500	3.2	500	1.4	500	0.75
KSB19-A-18-FF	18	7.02	4.5	3.5" x 3.5"	0.182	67	6.7	500	5.0	500	3.8	500	2.9	500	1.1	500	0.75

RF ALUMINUM // Shaft Details

Catalog Number	Ht. (ft)	Butt (in)	Tip (in)	Tenon	Wall Thickness (in)	Wt. (lbs)	90 MPH		100 MPH		110 MPH		120 MPH		150 MPH		Anchor Bolt Dia. (in)
							Max EPA (sq ft)	Max Load (lbs)	Max EPA (sq ft)	Max Load (lbs)	Max EPA (sq ft)	Max Load (lbs)	Max EPA (sq ft)	Max Load (lbs)	Max EPA (sq ft)	Max Load (lbs)	
KSB19-A-10-RF	10	5.9	4.5	3.5" x 3.5"	0.182	33	13.0	500	10.2	500	8.3	500	6.9	500	4.2	500	0.75
KSB19-A-11-RF	11	6.04	4.5	3.5" x 3.5"	0.182	37	12.0	500	9.4	500	7.6	500	6.3	500	3.8	500	0.75
KSB19-A-12-RF	12	6.18	4.5	3.5" x 3.5"	0.182	41	11.1	500	8.7	500	7.0	500	5.8	500	3.5	500	0.75
KSB19-A-13-RF	13	6.32	4.5	3.5" x 3.5"	0.182	45	10.4	500	8.1	500	6.5	500	5.3	500	3.2	500	0.75
KSB19-A-14-RF	14	6.46	4.5	3.5" x 3.5"	0.182	49	9.7	500	7.5	500	6.0	500	4.9	500	2.9	500	0.75
KSB19-A-15-RF	15	6.6	4.5	3.5" x 3.5"	0.182	54	9.1	500	7.0	500	5.6	500	4.6	500	2.6	500	0.75
KSB19-A-16-RF	16	6.74	4.5	3.5" x 3.5"	0.182	58	8.6	500	6.6	500	5.2	500	4.2	500	2.4	500	0.75
KSB19-A-17-RF	17	6.88	4.5	3.5" x 3.5"	0.182	62	8.0	500	6.1	500	4.8	500	3.9	500	2.2	500	0.75
KSB19-A-18-RF	18	7.02	4.5	3.5" x 3.5"	0.182	67	7.5	500	5.6	500	4.4	500	3.6	500	1.9	500	0.75

FF STEEL // Shaft Details

Catalog Number	Ht. (ft)	Butt (in)	Tip (in)	Tenon	Wall Thickness (in)	Wt. (lbs)	90 MPH		100 MPH		110 MPH		120 MPH		150 MPH		Anchor Bolt Dia. (in)
							Max EPA (sq ft)	Max Load (lbs)	Max EPA (sq ft)	Max Load (lbs)	Max EPA (sq ft)	Max Load (lbs)	Max EPA (sq ft)	Max Load (lbs)	Max EPA (sq ft)	Max Load (lbs)	
KSB19-S-10-FF	10	5.9	4.5	3.5" x 3.5"	0.12	65	34.4	500	27.6	500	22.7	500	18.9	500	11.7	500	1.00
KSB19-S-11-FF	11	6.04	4.5	3.5" x 3.5"	0.12	73	32.4	500	26.0	500	21.3	500	17.7	500	10.9	500	1.00
KSB19-S-12-FF	12	6.18	4.5	3.5" x 3.5"	0.12	80	30.7	500	24.6	500	20.1	500	16.7	500	10.2	500	1.00
KSB19-S-13-FF	13	6.32	4.5	3.5" x 3.5"	0.12	88	29.3	500	23.4	500	19.1	500	15.8	500	9.6	500	1.00
KSB19-S-14-FF	14	6.46	4.5	3.5" x 3.5"	0.12	96	28.1	500	22.4	500	18.3	500	15.1	500	9.1	500	1.00
KSB19-S-15-FF	15	6.6	4.5	3.5" x 3.5"	0.12	104	27.0	500	21.5	500	17.5	500	14.4	500	8.6	500	1.00
KSB19-S-16-FF	16	6.74	4.5	3.5" x 3.5"	0.12	113	26.0	500	20.7	500	16.8	500	13.8	500	8.2	500	1.00
KSB19-S-17-FF	17	6.88	4.5	3.5" x 3.5"	0.12	121	25.0	500	19.9	500	16.1	500	13.2	500	7.8	500	1.00
KSB19-S-18-FF	18	7.02	4.5	3.5" x 3.5"	0.12	130	23.9	500	19.0	500	15.4	500	12.6	500	7.3	500	1.00

RF STEEL // Shaft Details

Catalog Number	Ht. (ft)	Butt (in)	Tip (in)	Tenon	Wall Thickness (in)	Wt. (lbs)	90 MPH		100 MPH		110 MPH		120 MPH		150 MPH		Anchor Bolt Dia. (in)
							Max EPA (sq ft)	Max Load (lbs)	Max EPA (sq ft)	Max Load (lbs)	Max EPA (sq ft)	Max Load (lbs)	Max EPA (sq ft)	Max Load (lbs)	Max EPA (sq ft)	Max Load (lbs)	
KSB19-S-10-RF	10	5.9	4.5	3.5" x 3.5"	0.12	65	37.1	500	29.8	500	24.5	500	20.5	500	12.9	500	1.00
KSB19-S-11-RF	11	6.04	4.5	3.5" x 3.5"	0.12	73	35.0	500	28.1	500	23.0	500	19.2	500	12.1	500	1.00
KSB19-S-12-RF	12	6.18	4.5	3.5" x 3.5"	0.12	80	33.2	500	26.6	500	21.8	500	18.2	500	11.4	500	1.00
KSB19-S-13-RF	13	6.32	4.5	3.5" x 3.5"	0.12	88	31.7	500	25.3	500	20.8	500	17.3	500	10.8	500	1.00
KSB19-S-14-RF	14	6.46	4.5	3.5" x 3.5"	0.12	96	30.4	500	24.3	500	19.9	500	16.6	500	10.3	500	1.00
KSB19-S-15-RF	15	6.6	4.5	3.5" x 3.5"	0.12	104	29.3	500	23.3	500	19.1	500	15.9	500	9.9	500	1.00
KSB19-S-16-RF	16	6.74	4.5	3.5" x 3.5"	0.12	113	28.2	500	22.5	500	18.4	500	15.3	500	9.5	500	1.00
KSB19-S-17-RF	17	6.88	4.5	3.5" x 3.5"	0.12	121	27.2	500	21.6	500	17.6	500	14.6	500	9.1	500	1.00
KSB19-S-18-RF	18	7.02	4.5	3.5" x 3.5"	0.12	130	26.0	500	20.7	500	16.9	500	14.0	500	8.6	500	1.00

6-13-2020

ITEM	DESCRIPTION OF WORK
1	FENCE REMOVAL BY OWNER
2	PIPE REMOVAL BY OWNER DURING CONSTRUCTION OF DETENTION POND
3	SILT FENCE REMOVAL BY OWNER BEGINNING OF CONSTRUCTION APPROX. 1600 LF
	NOTE: CONTRACTOR IS RESPONSIBLE FOR PERIMETER CONTROLS AND PROTECTION OF THE SITE.

ADDENDUM 2

N/F
TRADITIONS OF BRASELTON COMMUNITY ASSOC.
DB. 41F PG. 595
PB. 66 PG. 54
TP# 105D COM 4

N/F
KEITH COOK
DB. 63Z PG. 686
PB. 61 PG. 204
TP# 105 19B

EX. 48" CONCRETE SEWER MAN HOLE TO REMAIN
RIM: 911.54
INV. IN: 903.40
INV. OUT: 903.20

RIM=911.54'
IN=903.40'
OUT=903.20'

Rad= 1080.50'
Arc= 135.47'
S57°25'09"E
Chd= 135.38'

N67°44'24"E

S16°54'27"E
121.54'

RIM=908.89'
OUT=902.33'

POSSIBLE FORCE MAIN (TERMINUS UNKNOWN) (NO EASEMENT FOUND)

20' SSE

50' COUNTY BUFFER

100' BUILDING SETBACK

STATE ROUTE No. 124 (100' R/W)

S61°00'43"E

Rad= 3919.47'
Arc= 197.40'
S62°27'14"E
Chd= 197.38'

EX. 48" CONCRETE SEWER MAN HOLE TO REMAIN
RIM:914.06
INV. IN: 906.62
INV. OUT:906.62
EX. 10" PVC SANITARY SEWER TO REMAIN

RIM=914.06'
IN=906.62'
OUT=906.42'

20' SSE
537 PG. 487

S65°51'E
365.67'

Rad= 1300.00'
Arc= 97.38'
S66°02'33"E
Chd= 97.36'

N/F
JACKSON COUNTY SCHOOL DISTRICT
TRACT 1
DB. 14A PG. 549
PB. 44 PG. 22
TP# 105 19A

APPROX. LOCATION OF 12" WATER LINE TO REMAIN
EX. FIRE HYDRANT
EX. GATE VALVE
EX. 48" CONCRETE SEWER MAN HOLE TO REMAIN
RIM: 920.86
INV. IN:911.91
INV OUT:911.71
EX. 48" CONCRETE SANITARY SEWER MANHOLE AND RING/COVER TO BE ADJUSTED TO MATCH FINISHED GRADE, CORED AND RUBBER BOOTED
RIM: 924.00
INV. IN:915.62
INV. OUT:915.42
APPROX. LOCATION OF 8" WATER LINE TO REMAIN

RIM=920.89'
IN=911.91'
OUT=911.71'

RIM=924.00'
IN=915.62'
OUT=915.42'

FIBER OPTIC MARKER

RIM=923.46'
OUT=916.84'

10" DIP

773.71'

20' SEWER EASEMENT

ROAD ABANDONED

Rad= 2320.00'
Arc= 110.41'
S29°44'11"E
Chd= 110.40'

N/F
TRADITIONS OF BRASELTON COMMUNITY ASSOC.
DB. 41F PG. 595
PB. 66 PG. 54
TP# 105D COM 4

SUBDIVIDED AS TRADITIONS OF BRASELTON POD D- 271 PB. 62 PG.

693.12'

D15
D14
D13
D12
D11
D10

N07°18'50"W

50' COUNTY BUFFER

100' BUILDING SETBACK

25' UNDISTURBED VEGETATIVE BUFFER (MEASURED FROM THE TOP EDGE OF THE WATERS BANK)

75' COUNTY BUFFER

25' STATE BUFFER

NATURAL CONSERVATION EASEMENT TO REMAIN UNDISTURBED

CREEK

SPRING HEAD

WATER VALVE

INV=894.54'
18"CMP
IN=893.67'

115.17'

N89°50'36"W

NO DEED OF RECORD FOUND
(OWNERSHIP UNKNOWN)
TP# 105 019G

N/F
JACKSON COUNTY SCHOOL DISTRICT
TRACT 2
DB. 14A PG. 549
PB. 44 PG. 22
TP# 105 19A

POSSIBLE CAPED WELL?

INV=902.39'
18"CMP

POSSIBLE CAPED WELL?

EXISTING DETENTION POND CONTOURS

DETENTION POND

INV=887.35'
INV=882.81'
18"CMP

INV=891.65'
18"CMP

RIM=909.76'
IN=903.21'
OUT=903.01

INV=909.53'
15"CMP

RIM=906.31'
IN=900.72'
OUT=900.52'

8"PVC

RIM=905.21'
IN=898.94'
OUT=898.74'

WEST JACKSON MIDDLE SCHOOL BUILDING

ADDENDUM 2

ADDENDUM 2

APPROX. LOCATION OF 8" GATE VALVE

APPROX. LOCATION OF FIRE HYDRANT

GUM SPRINGS CHURCH ROAD (60' R/W)

GRAPHIC SCALE
50 0 25 50 100 200
(IN FEET)
1 inch = 50 ft.

For Bidding Only

Know what's **below.**
Call before you dig.
Dial 811
Or Call 800-282-7411

BMK CONSTRUCTION & ENGINEERING
PO. BOX. 878
BRASELTON, GA. 30517
BUS: 706-654-4214
FAX: 706-654-0519
LICENSE #: PEF005337
ISSUED: 6/30/22
EXPIRES: 6/30/22

GEORGIA REGISTERED No. 029212 PROFESSIONAL ENGINEER
Donald B. Clerici, Jr.

GSWCC LEVEL II CERTIFICATION # 804

REVISIONS

NO.	DATE	DESCRIPTION
1	10-20	JACKSON COUNTY COMMENTS
2	01-20	GSWCC, ACWSA & JACKSON COUNTY COMMENTS
3	01-15-20	ACWSA COMMENTS / ADDENDUM NO. 1
4	0-29-20	ACWSA COMMENTS
5	7-9-20	ADDENDUM NO. 2

CONSTRUCTION PLANS FOR:

GUM SPRINGS PARK
GA STATE ROUTE 124
JACKSON COUNTY, GA

SHEET TITLE
DEMOLITION PLAN

SHEET NUMBER
C-2.0

SCALE SEE PLAN

DATE 1-10-20

PROJECT NO.
--

BEGIN 3 RAIL WHITE VINYL FENCE

ADDENDUM 1

PROP. PEDESTRIAN LIGHTS (TYP)

PROP. LANDSCAPE AREA

N/F TRADITIONS OF BRASELTON COMMUNITY ASSOC. DB. 41F PG. 595 PB. 66 PG. 54 TP# 105D COM 4

N/F KEITH COOK DB. 63Z PG. 686 PB. 61 PG. 204 TP# 105 19B

EX. 48" CONCRETE SEWER MAN HOLE TO REMAIN RIM: 911.54 INV. IN: 903.40 INV. OUT: 903.20

Rad= 1080.50' Arc= 135.47' S57°25'09"E Chd= 135.38'

N67°44'24"E 121.54'

S61°17'43"E 365.67'

STATE ROUTE No. 124 (100' R/W)

50' COUNTY BUFFER

100' BUILDING SETBACK

RIM=908.89' OUT=902.33'

POSSIBLE STORM MAIN (TERMINUS UNKNOWN) (NO EASEMENT FOUND)

D15

D14

D13

D12

D11

D10

693.12'

- SUBDIVIDED AS TRADITIONS OF BRASELTON POD D - PB. 62 PG. 271

EX. 48" CONCRETE SEWER MAN HOLE TO REMAIN RIM: 914.06 INV. IN: 906.62 INV. OUT: 906.62

EX. 10" PVC SANITARY SEWER TO REMAIN

Rad= 3919.47' Arc= 197.40' S62°27'14"E Chd= 197.38'

PROP. MULCH LIMITS

RIM=914.06' IN=906.62' OUT=906.42'

MODULAR BLOCK WALL B.

MODULAR BLOCK WALL C.

Rad= 1300.00' Arc= 97.38' S66°02'33"E Chd= 97.36'

16' TALL BLACK FLUTED PEDESTRIAN LIGHTS AT 50' O.C. (TYP.) — 1 / C-8.3

PROP. LANDSCAPE AREA SEE SHEET T-1.0

N/F JACKSON COUNTY SCHOOL DISTRICT TRACT 1 DB. 14A PG. 549 PB. 44 PG. 22 TP# 105 19A

CONTRACTOR TO CONSTRUCT HANDRAIL ALONG THE RETAINING WALL PER GDOT STD CONSTRUCTION DETAIL 9031R

FUTURE MULTI-PURPOSE ATHLETIC FIELDS LAYOUT

FUTURE BASEBALL FIELD LAYOUT

APPROX. LOCATION OF 12" WATER LINE TO REMAIN

EX. FIRE HYDRANT

EX. GATE VALVE

EX. 48" CONCRETE SEWER MAN HOLE TO REMAIN RIM: 920.85 INV. IN: 911.91 INV. OUT: 911.71

EX. 48" CONCRETE SANITARY SEWER MANHOLE AND RING/COVER TO BE ADJUSTED TO MATCH FINISHED GRADE, CORED AND RUBBER BOOTED RIM: 924.00 INV. IN: 915.62 INV. OUT: 915.42

APPROX. LOCATION OF 8" WATER LINE TO REMAIN

RIM=920.85' IN=911.91' OUT=911.71'

RIM=924.00' IN=915.62' OUT=915.42'

FIBER OPTIC MARKER

RIM=923.46' OUT=916.84'

FUTURE MUSCO LIGHTING TYP — 1 / C-8.9

6'CONCRETE SIDEWALK

ADDENDUM 1

FUTURE RESTROOM CONCESSION STORAGE BLDG.

FUTURE BASKETBALL COURT LAYOUT

FUTURE BASEBALL FIELD LAYOUT

FUTURE PLAYGROUND LAYOUT

NEW 8' SIDEWALK

FUTURE BATTING CAGES LAYOUT

Rad= 2320.00' Arc= 110.41' S29°44'11"E Chd= 110.40'

N89°50'36"W

END 3 RAIL WHITE VINYL FENCE — 3 / C-8.3

ADDENDUM 1

MODULAR BLOCK WALL A.

25' UNDISTURBED VEGETATIVE BUFFER (MEASURED FROM THE TOP EDGE OF THE WATERS BANK)

75' COUNTY BUFFER

25' STATE BUFFER

WATER VALVE

INV=894.54' 18"CMP INV=893.67'

CREEK

SPRING HEAD

N/F TRADITIONS OF BRASELTON COMMUNITY ASSOC. DB. 41F PG. 595 PB. 66 PG. 54 TP# 105D COM 6

NO DEED OF RECORD FOUND (OWNERSHIP UNKNOWN) TP# 105 019G

N/F JACKSON COUNTY SCHOOL DISTRICT TRACT 2 DB. 14A PG. 549 PB. 44 PG. 22 TP# 105 19A

POSSIBLE CAPED WELL?

INV=902.39' 6"CMP

PROP. FENCE — 2 / C-8.2

15' WIDE ACCESS GATE — 3 / C-8.2

DETENTION POND

INV=882.35' 18"CMP INV=882.81

INV=891.65'

RIM=909.76' IN=903.21' OUT=903.01

INV=909.53' 18"CMP

RIM=906.31' IN=900.72' OUT=900.52'

6' HIGH CHAIN LINK FENCE W/ NOTICE AUTHORIZED PERSONNEL ONLY SIGNS MOUNTED 2' FROM TOP, 20' OC — 4 / C-8.2

RIM=905.21' IN=898.94' OUT=898.74'

WEST JACKSON MIDDLE SCHOOL BUILDING

APPROX. LOCATION OF 8" GATE VALVE

APPROX. LOCATION OF FIRE HYDRANT

GUM SPRINGS CHURCH ROAD (60' R/W)

GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)

1 inch = 50 ft.

811 Know what's below. Call before you dig. Dial 811 Or Call 800-282-7411

For Bidding Only

LEGEND

- EXISTING EDGE OF PAVEMENT
- PROPERTY LINES
- CONCRETE SIDEWALK
- FUTURE ATHLETIC FIELD LIGHT POLE
- PEDESTRIAN LIGHT POLE

ADDENDUM 2

MODULAR BLOCK WALL NOTE: RETAINING WALL DESIGN MUST BE SUBMITTED TO JACKSON COUNTY FOR REVISED AND APPROVAL PRIOR TO WALL CONSTRUCTION. WALL DESIGN MUST INCLUDE DETAILS AND SPECIFICATIONS THAT ARE SITE SPECIFIC AND MUST BE SIGNED AND SEALED BY A REGISTERED PROFESSIONAL ENGINEER IN THE STATE OF GEORGIA.

PROJECT DESCRIPTION: THE PROJECT WILL CONSIST OF GRADING, IRRIGATION, AND SODDING FOR FUTURE CONSTRUCTION OF THREE BASEBALL FIELDS AND MULTI-PURPOSE ATHLETIC FIELD. IN ADDITION, FUTURE STRUCTURES ON THE SITE INCLUDE, PLAYGROUND, BASKETBALL COURT, BATTING CAGE AND RESPECTIVE A PROPOSED ACCESS ROAD AND PARKING LOT FOR THESE USES. METER FEE, TAPE FEE, PERMIT FEE AND SPECIAL INSPECTIONS TO BE HANDLE BY OWNER.

* OWNER IS RESPONSIBLE FOR DEMOLITION, CLEARING, GRUBBING, POND CONSTRUCTION STORM LINES FROM A1 TO HW-A AND, OCS C1 TO HW-C, AND ALL ASSOCIATED EROSION CONTROL.

BMK CONSTRUCTION & ENGINEERING
PO. BOX 878
BRASELTON, GA 30517
BUS: 706-654-3414
FAX: 706-654-0519
LICENSE #: PEF005337
ISSUED: 1/1/20
EXPIRES: 6/30/22

GEORGIA REGISTERED No. 029212 PROFESSIONAL ENGINEER Donald B. Clerici, JR.

GSWCC LEVEL II CERTIFICATION # 804

REVISIONS

No.	DATE	DESCRIPTION
1	4-8-20	ADDENDUM NO. 1
2	6-1-20	SUBMITTED TO JACKSON CO. FOR PERMIT
3	6-18-20	SUBMITTED TO GSWCC
4	6-29-20	SUBMITTED TO GSWCC
5	7-6-20	ADDENDUM NO. 2

CONSTRUCTION PLANS FOR:

GUM SPRINGS PARK

GA STATE ROUTE 124

JACKSON COUNTY, GA

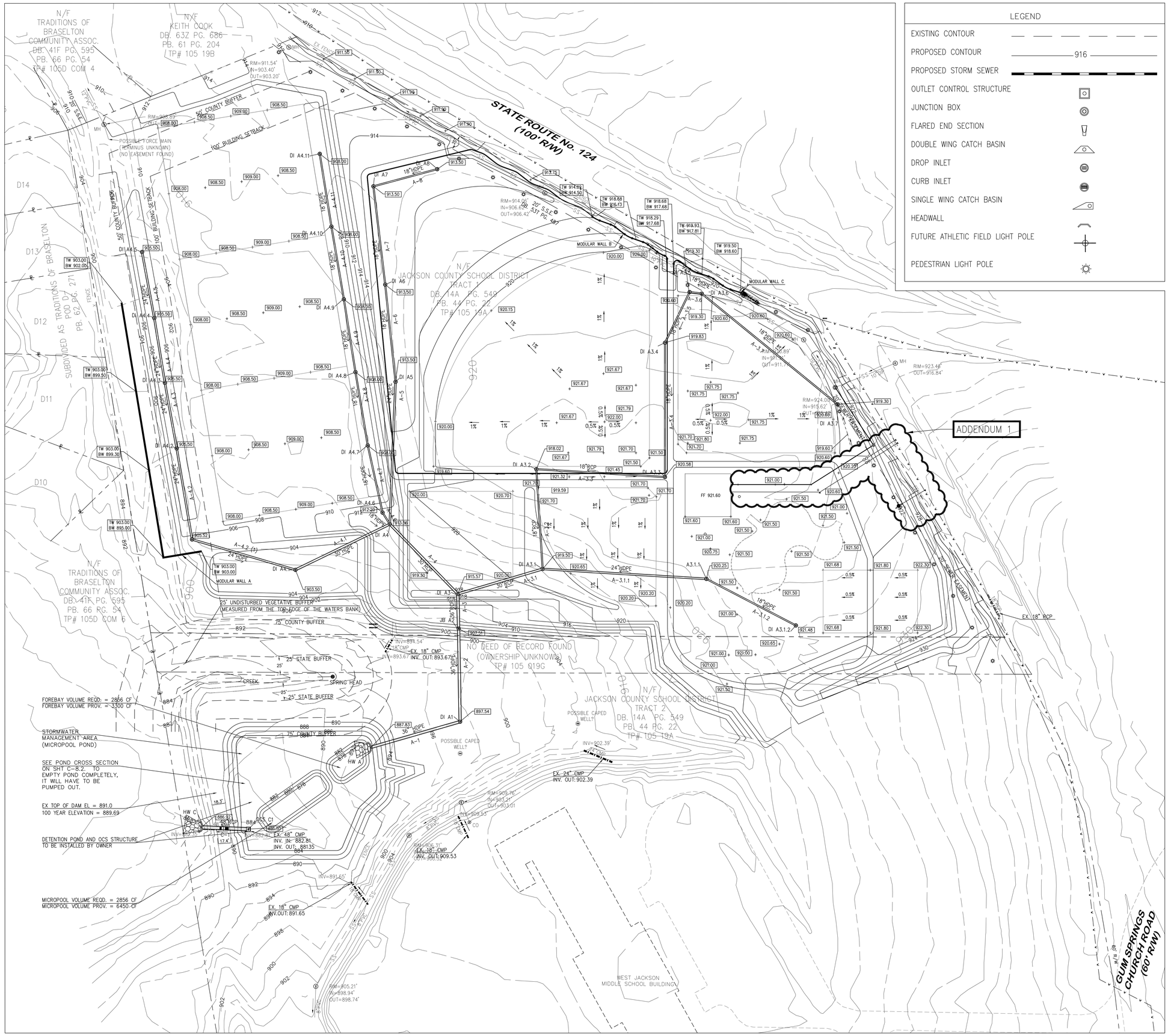
SHEET TITLE: SITE PLAN

SHEET NUMBER: C-3.0

SCALE: SEE PLAN

DATE: 1-10-20

PROJECT NO.: —



BMK CONSTRUCTION & ENGINEERING
PO. BOX. 878
BRASELTON, GA. 30517
BUS. PH. 706-654-3514
FAX: 706-824-0519
LICENSE #: PEF005337
ISSUED: 1/10/20
EXPIRES: 6/30/22

GEORGIA REGISTERED No. 029212 PROFESSIONAL ENGINEER David B. Clerici, Jr.

GSWCC LEVEL II CERTIFICATION # 804

REVISIONS

NO.	DATE	DESCRIPTION
1	4-9-20	ADDRESSED COUNTY COMMENTS
2	6-1-20	ADDRESSED GSWCC COMMENTS & PSAT COMMENTS
3	6-18-20	ADDRESSED PSAT COMMENTS
4	6-29-20	ADDRESSED PSAT COMMENTS
5	7-6-20	ADDENDUM NO. 2

CONSTRUCTION PLANS FOR:
GUM SPRINGS PARK
GA STATE ROUTE 124
JACKSON COUNTY, GA

SHEET TITLE
GRADING PLAN

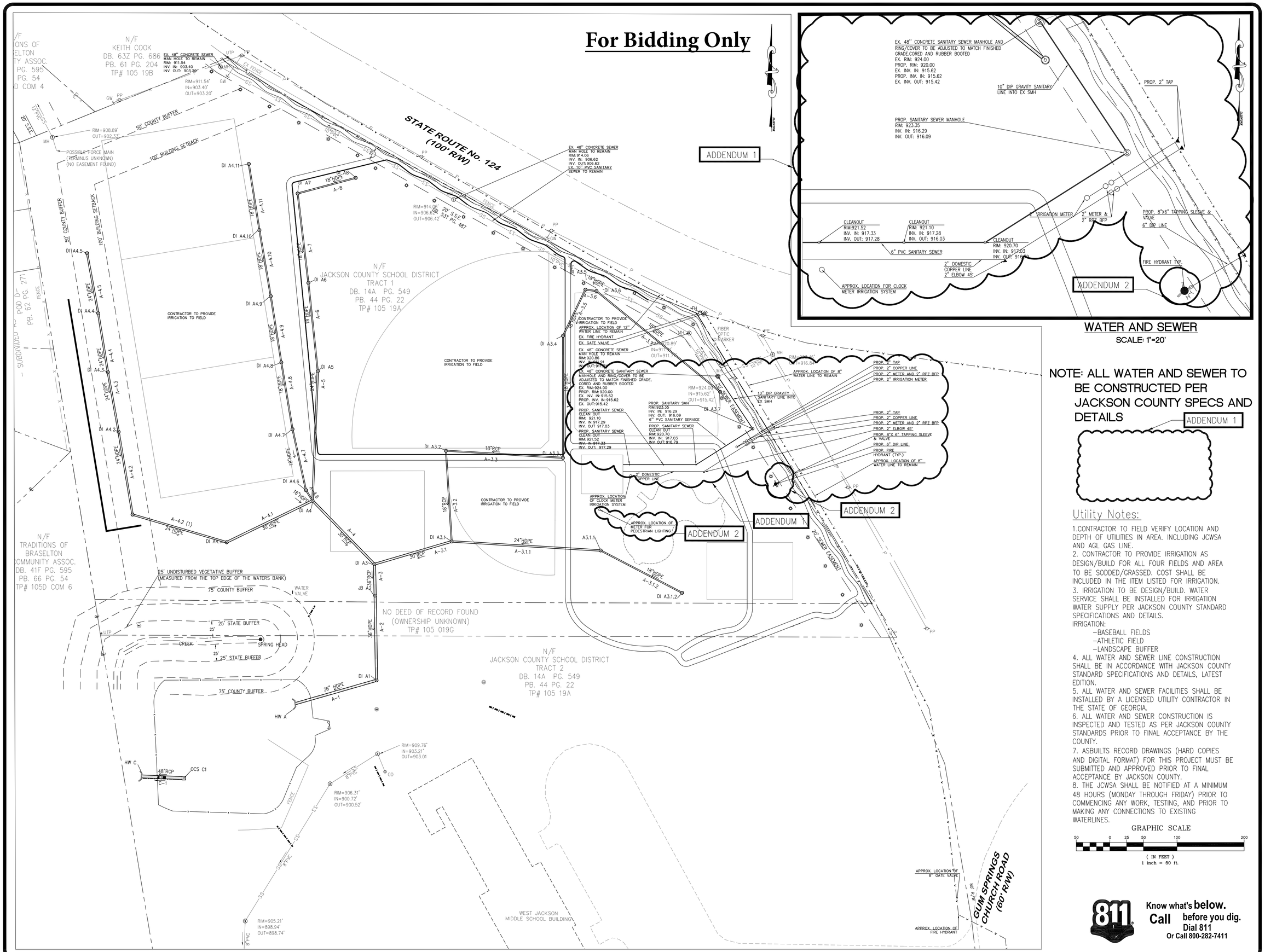
SHEET NUMBER
C-4.0

SCALE SEE PLAN

DATE 1-10-20

PROJECT NO.
—

For Bidding Only



WATER AND SEWER

SCALE: 1"=20'

NOTE: ALL WATER AND SEWER TO BE CONSTRUCTED PER JACKSON COUNTY SPECS AND DETAILS

ADDENDUM 1

Utility Notes:

1. CONTRACTOR TO FIELD VERIFY LOCATION AND DEPTH OF UTILITIES IN AREA. INCLUDING JCWSA AND AGL GAS LINE.
2. CONTRACTOR TO PROVIDE IRRIGATION AS DESIGN/BUILD FOR ALL FOUR FIELDS AND AREA TO BE SODDED/GRASSED. COST SHALL BE INCLUDED IN THE ITEM LISTED FOR IRRIGATION.
3. IRRIGATION TO BE DESIGN/BUILD. WATER SERVICE SHALL BE INSTALLED FOR IRRIGATION WATER SUPPLY PER JACKSON COUNTY STANDARD SPECIFICATIONS AND DETAILS.
IRRIGATION:
   - –BASEBALL FIELDS
   - –ATHLETIC FIELD
   - –LANDSCAPE BUFFER
4. ALL WATER AND SEWER LINE CONSTRUCTION SHALL BE IN ACCORDANCE WITH JACKSON COUNTY STANDARD SPECIFICATIONS AND DETAILS, LATEST EDITION.
5. ALL WATER AND SEWER FACILITIES SHALL BE INSTALLED BY A LICENSED UTILITY CONTRACTOR IN THE STATE OF GEORGIA.
6. ALL WATER AND SEWER CONSTRUCTION IS INSPECTED AND TESTED AS PER JACKSON COUNTY STANDARDS PRIOR TO FINAL ACCEPTANCE BY THE COUNTY.
7. ASBUILTS RECORD DRAWINGS (HARD COPIES AND DIGITAL FORMAT) FOR THIS PROJECT MUST BE SUBMITTED AND APPROVED PRIOR TO FINAL ACCEPTANCE BY JACKSON COUNTY.
8. THE JCWSA SHALL BE NOTIFIED AT A MINIMUM 48 HOURS (MONDAY THROUGH FRIDAY) PRIOR TO COMMENCING ANY WORK, TESTING, AND PRIOR TO MAKING ANY CONNECTIONS TO EXISTING WATERLINES.

GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)
1 inch = 50 ft.

811 Know what's **below.** **Call** before you dig. Dial 811 Or Call 800-282-7411

BMK CONSTRUCTION & ENGINEERING
P.O. BOX 878
BRASELTON, GA 30517
PH: 706-654-1814
FAX: 706-654-0519
LICENSE #: PEF005337
ISSUED: 6/1/15
EXPIRES: 6/30/22

GEORGIA REGISTERED No. 029212 PROFESSIONAL ENGINEER Donald B. Clerici, JR.
GSWCC LEVEL II CERTIFICATION # 804

REVISIONS

NO.	DESCRIPTION	DATE
1	ADDENDUM NO. 1	4-8-20
2	SUBMITTED TO JCWSA FOR REVIEW	6-1-20
3	SUBMITTED TO JCWSA FOR REVIEW	6-19-20
4	SUBMITTED TO JCWSA FOR REVIEW	6-29-20
5	ADDENDUM NO. 2	7-6-20

CONSTRUCTION PLANS FOR:

GUM SPRINGS PARK

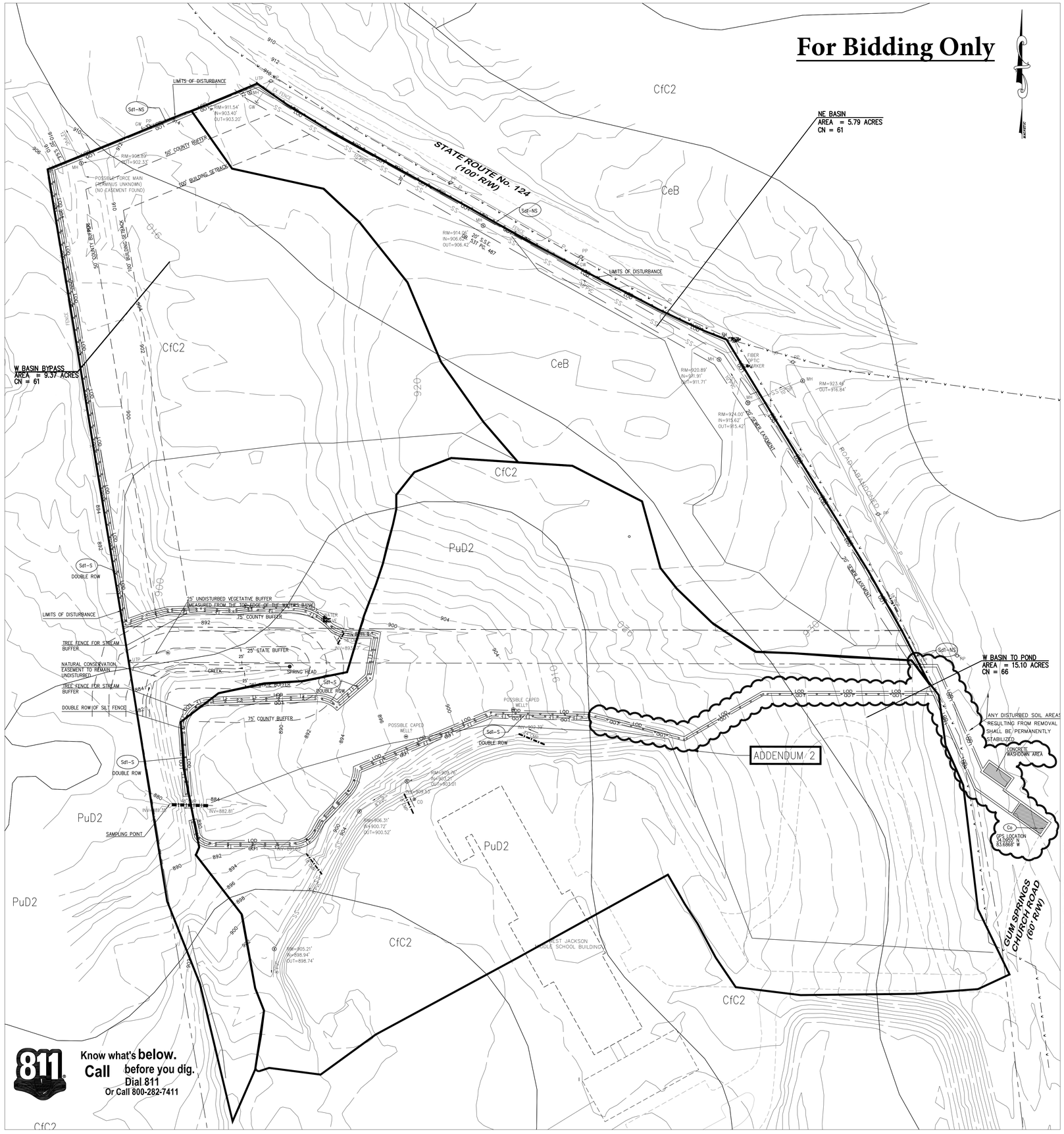
GA STATE ROUTE 124
JACKSON COUNTY, GA

SHEET TITLE
UTILITY PLAN

SHEET NUMBER
C-5.0

SCALE SEE PLAN
DATE 1-10-20
PROJECT NO. —

For Bidding Only



Erosion Control Notes:

1. THE CONSTRUCTION EXIT SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC STREETS.
2. SILT FENCES AND HAY BALE BARRIERS SHALL BE CLEANED OR REPLACED AND MAINTAINED IN FUNCTIONAL CONDITION UNTIL PERMANENT EROSION CONTROL MEASURES ARE ESTABLISHED.
3. SILT FENCE FABRIC SHALL BE COMPRISED OF GA DOT QPL 36.
4. ALL GRASSING SHALL BE IN ACCORDANCE WITH CH 6, SECTION III "VEGETATION PRACTICES" OF THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA.
5. ALL WORK SHALL BE PERFORMED IN ACCORDANCE TO THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GA.
6. THE CONTRACTOR SHALL CLEAN OUT ALL ACCUMULATED SILT FROM THE DETENTION AND SEDIMENT PONDS ONCE ALL DISTURBED AREAS ARE STABILIZED WITH PERMANENT VEGETATION.
7. EROSION CONTROL DEVICES WILL BE IN PLACE BEFORE SITE DISTURBANCE AND WILL BE PERIODICALLY INSPECTED AND REPAIRED OR RESTORED AS NEEDED TO FUNCTION PROPERLY UNTIL PERMANENT MEASURES ARE ESTABLISHED AND PROJECT IS COMPLETE. CONSTRUCTION EXITS AND SILT FENCES SHALL BE RETOPPED OR CLEANED AS SILT REDUCES THEIR EFFECTIVENESS.
8. ANY ADDITIONAL CONSTRUCTION OTHER THAN SHOWN ON THIS PLAN WILL REQUIRE SEPARATE AND ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES AND APPROVAL.
9. TEMPORARY VEGETATION AND/OR HEAVY MULCH WILL BE USED TO STABILIZE AREAS. IN NO CASE SHALL A SITE BE LEFT BARE FOR MORE THAN 7 DAYS.
10. ALL DISTURBED AREAS WILL BE PERMANENTLY LANDSCAPED AND GRASSED AS SOON AS CONSTRUCTION PHASES PERMIT.
11. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED TO CONTROL EROSION AS DETERMINED NECESSARY BY TEH GOVERNING JURISDICTION SITE INSPECTORS.
12. CUT AND FILL SLOPES NOT TO EXCEED 2H: 1V.
13. EROSION CONTROL MEASURES TO BE INSPECTED DAILY..
14. EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.
15. IN CONCENTRATED FLOW AREAS, ALL SLOPES STEEPER THAN 2.5:1 AND WITH A HEIGHT 10' OR GREATER SHALL BE STABILIZED WITH THE APPROPRIATE EROSION CONTROL MATTING OR BLANKET.
16. DISTRIBUTED AREAS LEFT IDLE FOR 7 DAYS AND NOT TO FINAL GRADE, WILL BE ESTABLISHED TO PERMANENT VEGETATION(DS2). ALL AREAS TO FINAL GRADE, WILL BE ESTABLISHED TO TEMPORARY VEGETATION(DS3) IMMEDIATELY UPON COMPLETION.
17. WHEN PLANTING VEGETATION, MULCH (HAY OR STRAW) SHOULD BE UNIFORMLY SPREAD OVER SEEDED AREA WITHIN 24 HOURS OF SEEDING.
18. SEDIMENT AND EROSION CONTROL DEVICES MUST BE CHECKED AFTER EACH STORM EVENT. EACH DEVICE IS TO BE MAINTAINED OR REPLACED IF SEDIMENT ACCUMULATION HAS REACHED ON HALF THE CAPACITY OF THE DEVICE. ADDITIONAL DEVICES MUST BE INSTALLED IF NEW CHANNELS HAVE DEPLOYED.

Note:

THE PROJECT RECEIVING WATERS IS MULBERRY RIVER.

THERE ARE SENSITIVE AREAS ADJACENT TO PROJECT THAT MAY BE AFFECTED.

DISTURBED AREA = 0.90 ACRES.

ADDENDUM 2

WASHOUT OF THE CONCRETE DRUM AT THE CONSTRUCTION SITE IS PROHIBITED.

NTU FOR OUTFALL =75

Vegetative Plan

–APPLY Ds2 AS SOON AS ROUGH GRADING IS COMPLETE
–APPLY Ds3 ONCE FINAL GRADE IS COMPLETE

Ds1 MULCHING – USE STRAW OR HAY 2.5 TONS PER ACRE

Ds2 SEPTEMBER THROUGH FEBRUARY, USE WINTER RYE 4 LB/1000 SF
APRIL THROUGH AUGUST, USE KENTUCKY 31 FESCUE 4 LB/1000 SF

Ds3 OCTOBER THROUGH MARCH, USE UNHULLED BERMUDA 4LB/1000 SF
APRIL THROUGH JULY, USE ZENITH ZOYSIA 4LB/1000 SF
AUGUST THROUGH SEPTEMBER, USE KENTUCKY 31 FESCUE

Ds4 OCTOBER THROUGH MARCH, USE KENTUCKY 31 FESCUE SOD
APRIL THROUGH SEPTEMBER, UNHULLED BERMUDA SOD

Soil Legend:

CeB – CECIL SANDY LOAMS, 2% TO 6% SLOPES – (SOIL GROUP B)
CfC2 – CECIL SANDY CLAY LOAMS, 6% TO 10% SLOPES, ERODED – (SOIL GROUP B)
PuD2 – PACOLET SOIL, 10% TO 15% SLOPES, ERODED – (SOIL GROUP B)

Sediment Calculations Clearing Phase

TOTAL DRAINAGE AREA TO BASIN		=	27.47 ACRES
TOTAL DISTURBED AREA		=	0.90 ACRES
SEDIMENT STORAGE REQUIRED	= 0.90 AC * 67 CY/AC	=	60.30 CY
STORAGE AVAILABLE IN SILT FENCE (6,694 LF @ 0.1675 CY/LF)		=	1,121.25 CY
SEDIMENT STORAGE AVAILABLE		=	1,121.25 CY

ADDENDUM 2

DETENTION POND: OWNER IS RESPONSIBLE FOR CLEARING, GRUBBING AND ANYTHING ASSOCIATED WITH EROSION CONTROL FROM POND TO STORM A1.
–RIP–RAP
–HEADWALL
–FLOATING SURFACE SKIMMER
–FILTER RING
–STABILIZING

GRAPHIC SCALE
60 0 30 60 120 240
(IN FEET)
1 inch = 60 ft.

EROSION CONTROL SYMBOLS LEGEND

STRUCTURAL PRACTICES

CODE	PRACTICE	DESCRIPTION
Cd	CHECKDAM	A small temporary barrier or dam constructed across a swale, drainage ditch or area of concentrated flow.
Ch	CHANNEL STABILIZATION	Improving, constructing or stabilizing an open channel, existing stream, or ditch.
Co	CONSTRUCTION EXIT	A crushed stone pad located at the construction site exit to provide a place for removing mud from tires thereby protecting public streets.
Cr	CONSTRUCTION ROAD STABILIZATION	A travelway constructed as part of a construction plan including access roads, subdivision roads, parking areas and other on–site vehicle transportation routes.
Dc	STREAM DIVERSION CHANNEL	A temporary channel constructed to convey flow around a construction site while a permanent structure is being constructed.
Di	DIVERSION	An earth channel or dike located above, below, or across a slope to divert runoff. This may be a temporary or permanent structure.
Dn1	TEMPORARY DOWNDRAIN STRUCTURE	A flexible conduit of heavy–duty fabric or other material designed to safely conduct surface runoff down a slope. This is temporary and inexpensive.
Dn2	PERMANENT DOWNDRAIN STRUCTURE	A paved chute, pipe, sectional conduit or similar material designed to safely conduct surface runoff down a slope.
Fr	FILTER RING	A temporary stone barrier constructed at storm drain inlets and pond outlets.
Ga	GABION	Rock filter baskets which are hand–placed into position forming soil stabilizing structures.
Gr	GRADE STABILIZATION STRUCTURE	Permanent structures installed to protect channels or waterways where otherwise the slope would be sufficient for the running water to form gullies.
Lv	LEVEL SPREADER	A structure to convert concentrated flow of water into less erosive sheet flow. This should be constructed only on undisturbed soils.
Rd	ROCK FILTER DAM	A permanent or temporary stone filter dam installed across small streams or drainageways.
Rt	RETRO FITTING	A device or structure placed in front of a permanent stormwater detention pond outlet structure to serve as a temporary sediment filter.
Sd1	SEDIMENT BARRIER	A barrier to prevent sediment from leaving the construction site. It may be sandbags, bales of straw or hay, brush, logs and poles, gravel, or a silt fence.
Sd2	INLET SEDIMENT TRAP	An impounding area created by excavating around a storm drain drop inlet. The excavated area will be filled and stabilized on completion of construction activities.
Sd3	TEMPORARY SEDIMENT BASIN	A basin created by excavation or a dam across a waterway. The surface water runoff is temporarily stored allowing the bulk of the sediment to drop out.
Sd4	TEMPORARY SEDIMENT TRAP	A small temporary pond that drains a disturbed area so that sediment can settle out. The principle feature distinguishing a temporary sediment trap from a temporary sediment basin is the lack of a pipe or riser.
Sk	FLOATING SURFACE SKIMMER	A buoyant device that releases/drains water from the surface of sediment ponds, traps, or basins at a controlled rate of flow.
Spb	SEEP BERM	Linear control device constructed as a diversion perpendicular to the direction of runoff to enhance dissipation and infiltration, while creating multiple sedimentation chambers with the employment of intermediate dikes.
Sr	TEMPORARY STREAM CROSSING	A temporary bridge or culvert–type structure protecting a stream or watercourse from damage by crossing construction equipment.
St	STORMDRAIN OUTLET PROTECTION	A paved or short section of riprap channel at the outlet of a storm drain system preventing erosion from the concentrated runoff.
Su	SURFACE ROUGHENING	A rough soil surface with horizontal depressions on a contour or slopes left in a roughened condition after grading.
Tc	TURBIDITY CURTAIN	A floating or staked barrier installed within the water (it may also be referred to as a floating boom, silt barrier, or silt curtain).
Tp	TOPSOILING	The practice of stripping off the more fertile soil, storing it, then spreading it over the disturbed area after completion of construction activities.
Tr	TREE PROTECTION	To protect desirable trees from injury during construction activity.
Wt	VEGETATED WATERWAY	Paved or vegetative water outlets for diversions, terraces, berms, dikes or similar structures.

VEGETATED PRACTICES

Bf	BUFFER ZONE	Strip of undisturbed original vegetation, enhanced or restored existing vegetation or the reestablishment of vegetation surrounding an area of disturbance or bordering streams.
Cs	COASTAL DUNE STABILIZATION (WITH VEGETATION)	Planting vegetation on dunes that are denuded, artificially constructed, or re–nourished.
Ds1	DISTURBED AREA STABILIZATION (WITH MULCHING ONLY)	Establishing temporary protection for disturbed areas where seedlings may not have a suitable growing season to produce an erosion retarding cover.
Ds2	DISTURBED AREA STABILIZATION (WITH TEMP SEEDING)	Establishing a temporary vegetative cover with fast growing seedings on disturbed areas.
Ds3	DISTURBED AREA STABILIZATION (WITH PERM SEEDING)	Establishing a permanent vegetative cover such as trees, shrubs, vines, grasses, or legumes on disturbed areas.
Ds4	DISTURBED AREA STABILIZATION (SODDING)	A permanent vegetative cover using sods on highly erodable or critically eroded lands.
Du	DUST CONTROL ON DISTURBED AREAS	Controlling surface and air movement of dust on construction site, roadways and similar sites.
Fl-Co	FLOCCULANTS AND COAGULANTS	Substance formulated to assist in the solids/liquid separation of suspended particles in solution.
Sb	STREAMBANK STABILIZATION (USING PERM VEGETATION)	The use of readily available native plant materials to maintain and enhance streambanks, or to prevent, or restore and repair small streambank erosion problems.
Ss	SLOPE STABILIZATION	A protective covering used to prevent erosion and establish temporary or permanent vegetation on steep slopes, shore lines, or channels.
Tac	TACKIFIERS AND BINDERS	Substance used to anchor straw or hay mulch by causing the organic material to bind together.

811 Know what's below. Call before you dig. Dial 811 Or Call 800-282-7411

BMK CONSTRUCTION & ENGINEERING
PO. BOX 878
BRASELTON, GA 30517
PHONE: 770-614-8744
FAX: 770-824-0519
LICENSE #: PEF005337
ISSUED:
EXPIRES: 6/30/22

GEORGIA REGISTERED No. 029212 PROFESSIONAL ENGINEER Donald B. Clerici, JR.
GSWCC LEVEL II CERTIFICATION # 804

REVISIONS

No.	DATE	
1	4-8-20	GSWCC COMMENTS
2	6-1-20	JCSD COMMENTS & TSAC COMMENTS
3	6-19-20	JCSD & TSAC COMMENTS
4	6-29-20	JCSD & TSAC COMMENTS
5	7-6-20	MBR COMMENTS

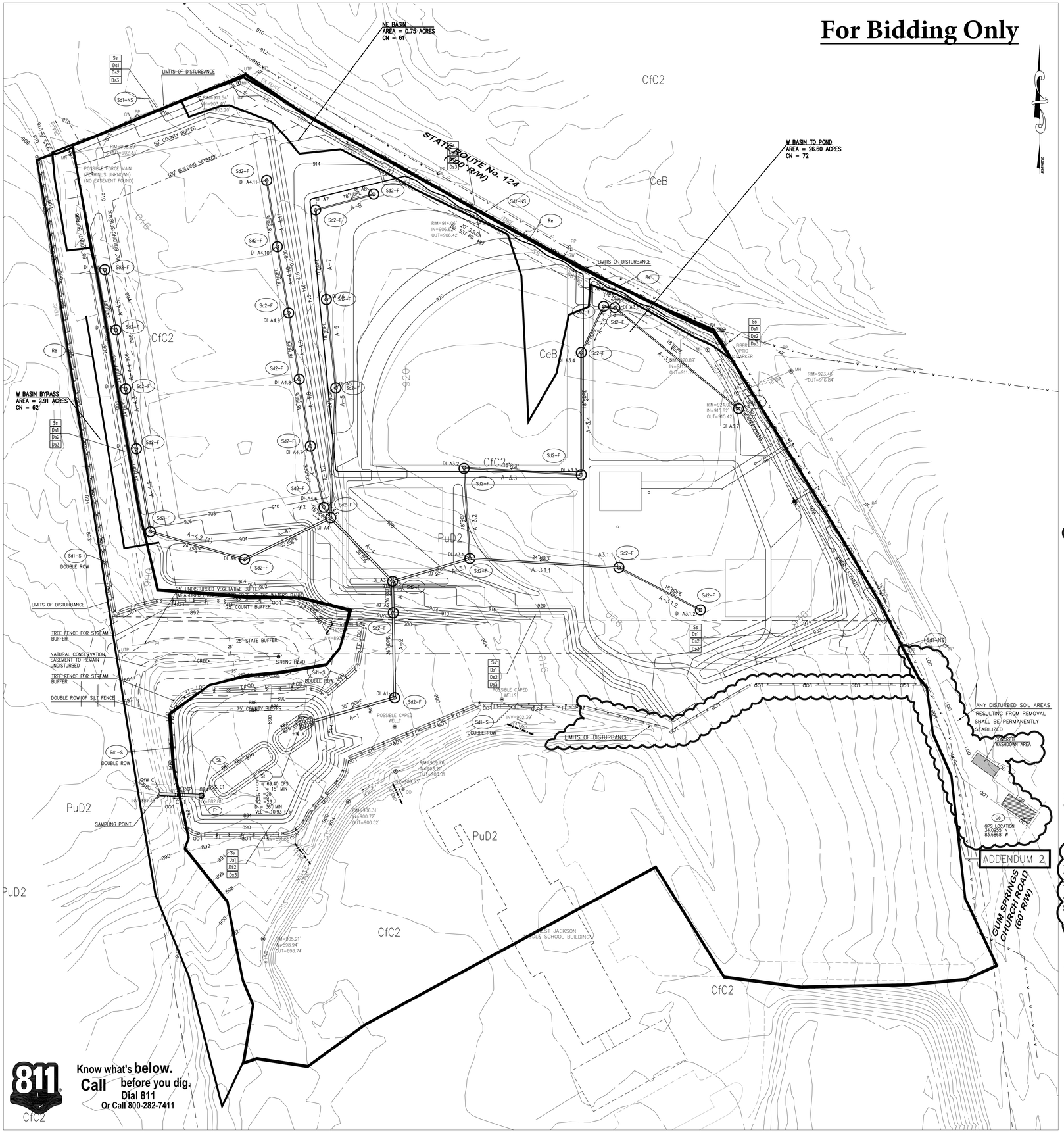
CONSTRUCTION PLANS FOR:
GUM SPRINGS PARK
GA STATE ROUTE 124
JACKSON COUNTY, GA

SHEET TITLE
EROSION CONTROL PLAN INITIAL

SHEET NUMBER
C-6.4

SCALE SEE PLAN
DATE 1–10–20
PROJECT NO.
–

For Bidding Only



Erosion Control Notes:

1. THE CONSTRUCTION EXIT SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC STREETS.
2. SILT FENCES AND HAY BALE BARRIERS SHALL BE CLEANED OR REPLACED AND MAINTAINED IN FUNCTIONAL CONDITION UNTIL PERMANENT EROSION CONTROL MEASURES ARE ESTABLISHED.
3. SILT FENCE FABRIC SHALL BE COMPRISED OF GA DOT QPL 36.
4. ALL GRASSING SHALL BE IN ACCORDANCE WITH CH 6, SECTION III "VEGETATION PRACTICES" OF THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA.
5. ALL WORK SHALL BE PERFORMED IN ACCORDANCE TO THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GA.
6. THE CONTRACTOR SHALL CLEAN OUT ALL ACCUMULATED SILT FROM THE DETENTION AND SEDIMENT PONDS ONCE ALL DISTURBED AREAS ARE STABILIZED WITH PERMANENT VEGETATION.
7. EROSION CONTROL DEVICES WILL BE IN PLACE BEFORE SITE DISTURBANCE AND WILL BE PERIODICALLY INSPECTED AND REPAIRED OR RESTORED AS NEEDED TO FUNCTION PROPERLY UNTIL PERMANENT MEASURES ARE ESTABLISHED AND PROJECT IS COMPLETE. CONSTRUCTION EXITS AND SILT FENCES SHALL BE RETOPPED OR CLEANED AS SILT REDUCES THEIR EFFECTIVENESS.
8. ANY ADDITIONAL CONSTRUCTION OTHER THAN SHOWN ON THIS PLAN WILL REQUIRE SEPARATE AND ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES AND APPROVAL.
9. TEMPORARY VEGETATION AND/OR HEAVY MULCH WILL BE USED TO STABILIZE AREAS. IN NO CASE SHALL A SITE BE LEFT BARE FOR MORE THAN 7 DAYS.
10. ALL DISTURBED AREAS WILL BE PERMANENTLY LANDSCAPED AND GRASSED AS SOON AS CONSTRUCTION PHASES PERMIT.
11. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED TO CONTROL EROSION AS DETERMINED NECESSARY BY TEH GOVERNING JURISDICTION SITE INSPECTORS.
12. CUT AND FILL SLOPES NOT TO EXCEED 2H: 1V.
13. EROSION CONTROL MEASURES TO BE INSPECTED DAILY..
14. EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.
15. IN CONCENTRATED FLOW AREAS, ALL SLOPES STEEPER THAN 2.5:1 AND WITH A HEIGHT 10' OR GREATER SHALL BE STABILIZED WITH THE APPROPRIATE EROSION CONTROL MATTING OR BLANKET.
16. DISTRIBUTED AREAS LEFT IDLE FOR 7 DAYS AND NOT TO FINAL GRADE, WILL BE ESTABLISHED TO PERMANENT VEGETATION(DS2). ALL AREAS TO FINAL GRADE, WILL BE ESTABLISHED TO TEMPORARY VEGETATION(DS3) IMMEDIATELY UPON COMPLETION.
17. WHEN PLANTING VEGETATION, MULCH (HAY OR STRAW) SHOULD BE UNIFORMLY SPREAD OVER SEEDED AREA WITHIN 24 HOURS OF SEEDING.
18. SEDIMENT AND EROSION CONTROL DEVICES MUST BE CHECKED AFTER EACH STORM EVENT. EACH DEVICE IS TO BE MAINTAINED OR REPLACED IF SEDIMENT ACCUMULATION HAS REACHED ON HALF THE CAPACITY OF THE DEVICE. ADDITIONAL DEVICES MUST BE INSTALLED IF NEW CHANNELS HAVE DEPLOYED.

Note:

THE PROJECT RECEIVING WATERS IS MULBERRY RIVER.

THERE ARE SENSITIVE AREAS ADJACENT TO PROJECT THAT MAY BE AFFECTED.

DISTURBED AREA = 19.48 ACRES. — ADDENDUM 2

WASHOUT OF THE CONCRETE DRUM AT THE CONSTRUCTION SITE IS PROHIBITED.

NTU FOR OUTFALL =75

Vegetative Plan

–APPLY Ds2 AS SOON AS ROUGH GRADING IS COMPLETE
–APPLY Ds3 ONCE FINAL GRADE IS COMPLETE

Ds1 MULCHING – USE STRAW OR HAY 2.5 TONS PER ACRE

Ds2 SEPTEMBER THROUGH FEBRUARY, USE WINTER RYE 4 LB/1000 SF
APRIL THROUGH AUGUST, USE KENTUCKY 31 FESCUE 4 LB/1000 SF

Ds3 OCTOBER THROUGH MARCH, USE UNHULLED BERMUDA 4LB/1000 SF
APRIL THROUGH JULY, USE ZENITH ZOYSIA 4LB/1000 SF
AUGUST THROUGH SEPTEMBER, USE KENTUCKY 31 FESCUE

Ds4 OCTOBER THROUGH MARCH, USE KENTUCKY 31 FESCUE SOD
APRIL THROUGH SEPTEMBER, UNHULLED BERMUDA SOD

Soil Legend:

CeB – CECIL SANDY LOAMS, 2% TO 6% SLOPES – (SOIL GROUP B)
CfC2 – CECIL SANDY CLAY LOAMS, 6% TO 10% SLOPES, ERODED – (SOIL GROUP B)
PuD2 – PACOLET SOIL, 10% TO 15% SLOPES, ERODED – (SOIL GROUP B)

Sediment Calculations Grading Phase

TOTAL DRAINAGE AREA TO BASIN	=	27.47 ACRES
TOTAL DISTURBED AREA	=	19.48 ACRES
SEDIMENT STORAGE REQUIRED = 19.48 AC * 67 CY/AC	=	1,305.16 CY
STORAGE AVAILABLE IN SILT FENCE (6,694 LF @ 0.1675 CY/LF)=		1,121.25 CY
STORAGE AVAILABLE IN SD2-F (780 LF @ 0.1675 CY/LF)=		130.65 CY
SEDIMENT STORAGE AVAILABLE	=	1,251.90 CY

ADDENDUM 2

DETENTION POND: OWNER IS RESPONSIBLE FOR CLEARING, GRUBBING AND ANYTHING ASSOCIATED WITH EROSION CONTROL FROM POND TO STORM A1.
–RIP–RAP
–HEADWALL
–FLOATING SURFACE SKIMMER
–FILTER RING
–STABILIZING

GRAPHIC SCALE

60 0 30 60 120 240
(IN FEET)
1 inch = 60 ft.

EROSION CONTROL SYMBOLS LEGEND

STRUCTURAL PRACTICES

CODE	PRACTICE	DESCRIPTION
Cd	CHECKDAM	A small temporary barrier or dam constructed across a swale, drainage ditch or area of concentrated flow.
Ch	CHANNEL STABILIZATION	Improving, constructing or stabilizing an open channel, existing stream, or ditch.
Co	CONSTRUCTION EXIT	A crushed stone pad located at the construction site exit to provide a place for removing mud from tires thereby protecting public streets.
Cr	CONSTRUCTION ROAD STABILIZATION	A travelway constructed as part of a construction plan including access roads, subdivision roads, parking areas and other on–site vehicle transportation routes.
Dc	STREAM DIVERSION CHANNEL	A temporary channel constructed to convey flow around a construction site while a permanent structure is being constructed.
Di	DIVERSION	An earth channel or dike located above, below, or across a slope to divert runoff. This may be a temporary or permanent structure.
Dn1	TEMPORARY DOWNDRAIN STRUCTURE	A flexible conduit of heavy–duty fabric or other material designed to safely conduct surface runoff down a slope. This is temporary and inexpensive.
Dn2	PERMANENT DOWNDRAIN STRUCTURE	A paved chute, pipe, sectional conduit or similar material designed to safely conduct surface runoff down a slope.
Fr	FILTER RING	A temporary stone barrier constructed at storm drain inlets and pond outlets.
Ga	GABION	Rock filter baskets which are hand–placed into position forming soil stabilizing structures.
Gr	GRADE STABILIZATION STRUCTURE	Permanent structures installed to protect channels or waterways where otherwise the slope would be sufficient for the running water to form gullies.
Lv	LEVEL SPREADER	A structure to convert concentrated flow of water into less erosive sheet flow. This should be constructed only on undisturbed soils.
Rd	ROCK FILTER DAM	A permanent or temporary stone filter dam installed across small streams or drainageways.
Rt	RETRO FITTING	A device or structure placed in front of a permanent stormwater detention pond outlet structure to serve as a temporary sediment filter.
Sd1	SEDIMENT BARRIER	A barrier to prevent sediment from leaving the construction site. It may be sandbags, bales of straw or hay, brush, logs and poles, gravel, or a silt fence.
Sd2	INLET SEDIMENT TRAP	An impounding area created by excavating around a storm drain drop inlet. The excavated area will be filled and stabilized on completion of construction activities.
Sd3	TEMPORARY SEDIMENT BASIN	A basin created by excavation or a dam across a waterway. The surface water runoff is temporarily stored allowing the bulk of the sediment to drop out.
Sd4	TEMPORARY SEDIMENT TRAP	A small temporary pond that drains a disturbed area so that sediment can settle out. The principle feature distinguishing a temporary sediment trap from a temporary sediment basin is the lack of a pipe or riser.
Sk	FLOATING SURFACE SKIMMER	A buoyant device that releases/drains water from the surface of sediment ponds, traps, or basins at a controlled rate of flow.
Spb	SEEP BERM	Linear control device constructed as a diversion perpendicular to the direction of runoff to enhance dissipation and infiltration, while creating multiple sedimentation chambers with the employment of intermediate dikes.
Sr	TEMPORARY STREAM CROSSING	A temporary bridge or culvert–type structure protecting a stream or watercourse from damage by crossing construction equipment.
St	STORMDRAIN OUTLET PROTECTION	A paved or short section of riprap channel at the outlet of a storm drain system preventing erosion from the concentrated runoff.
Su	SURFACE ROUGHENING	A rough soil surface with horizontal depressions on a contour or slopes left in a roughened condition after grading.
Tc	TURBIDITY CURTAIN	A floating or staked barrier installed within the water (it may also be referred to as a floating boom, silt barrier, or silt curtain).
Tp	TOPSOILING	The practice of stripping off the more fertile soil, storing it, then spreading it over the disturbed area after completion of construction activities.
Tr	TREE PROTECTION	To protect desirable trees from injury during construction activity.
Wt	VEGETATED WATERWAY	Paved or vegetative water outlets for diversions, terraces, berms, dikes or similar structures.

VEGETATED PRACTICES

Bf	BUFFER ZONE	Strip of undisturbed original vegetation, enhanced or restored existing vegetation or the reestablishment of vegetation surrounding an area of disturbance or bordering streams.
Cs	COASTAL DUNE STABILIZATION (WITH VEGETATION)	Planting vegetation on dunes that are denuded, artificially constructed, or re–nourished.
Ds1	DISTURBED AREA STABILIZATION (WITH MULCHING ONLY)	Establishing temporary protection for disturbed areas where seedings may not have a suitable growing season to produce an erosion retarding cover.
Ds2	DISTURBED AREA STABILIZATION (WITH TEMP SEEDING)	Establishing a temporary vegetative cover with fast growing seedings on disturbed areas.
Ds3	DISTURBED AREA STABILIZATION (WITH PERM SEEDING)	Establishing a permanent vegetative cover such as trees, shrubs, vines, grasses, or legumes on disturbed areas.
Ds4	DISTURBED AREA STABILIZATION (SODDING)	A permanent vegetative cover using sods on highly erodable or critically eroded lands.
Du	DUST CONTROL ON DISTURBED AREAS	Controlling surface and air movement of dust on construction site, roadways and similar sites.
Fl-Co	FLOCCULANTS AND COAGULANTS	Substance formulated to assist in the solids/liquid separation of suspended particles in solution.
Sb	STREAMBANK STABILIZATION (USING PERM VEGETATION)	The use of readily available native plant materials to maintain and enhance streambanks, or to prevent, or restore and repair small streambank erosion problems.
Ss	SLOPE STABILIZATION	A protective covering used to prevent erosion and establish temporary or permanent vegetation on steep slopes, shore lines, or channels.
Tac	TACKIFIERS AND BINDERS	Substance used to anchor straw or hay mulch by causing the organic material to bind together.

BMK CONSTRUCTION & ENGINEERING
PO. BOX 878
BRASELTON, GA 30517
BUS. PHONE: 706-654-4414
FAX: 706-824-0519
LICENSE #: PEF005337
ISSUED: 6/30/20
EXPIRES: 6/30/22

GEORGIA REGISTERED No. 029212 PROFESSIONAL ENGINEER Donald R. Bice Jr.
GSWCC LEVEL II CERTIFICATION # 804

REVISIONS

NO.	DATE	DESCRIPTION
1	4-8-20	ADDENDUM NO. 1
2	6/15/20	ADDENDUM NO. 2
3	6-19-20	ADDENDUM NO. 3
4	6-29-20	ADDENDUM NO. 4
5	7-6-20	ADDENDUM NO. 5

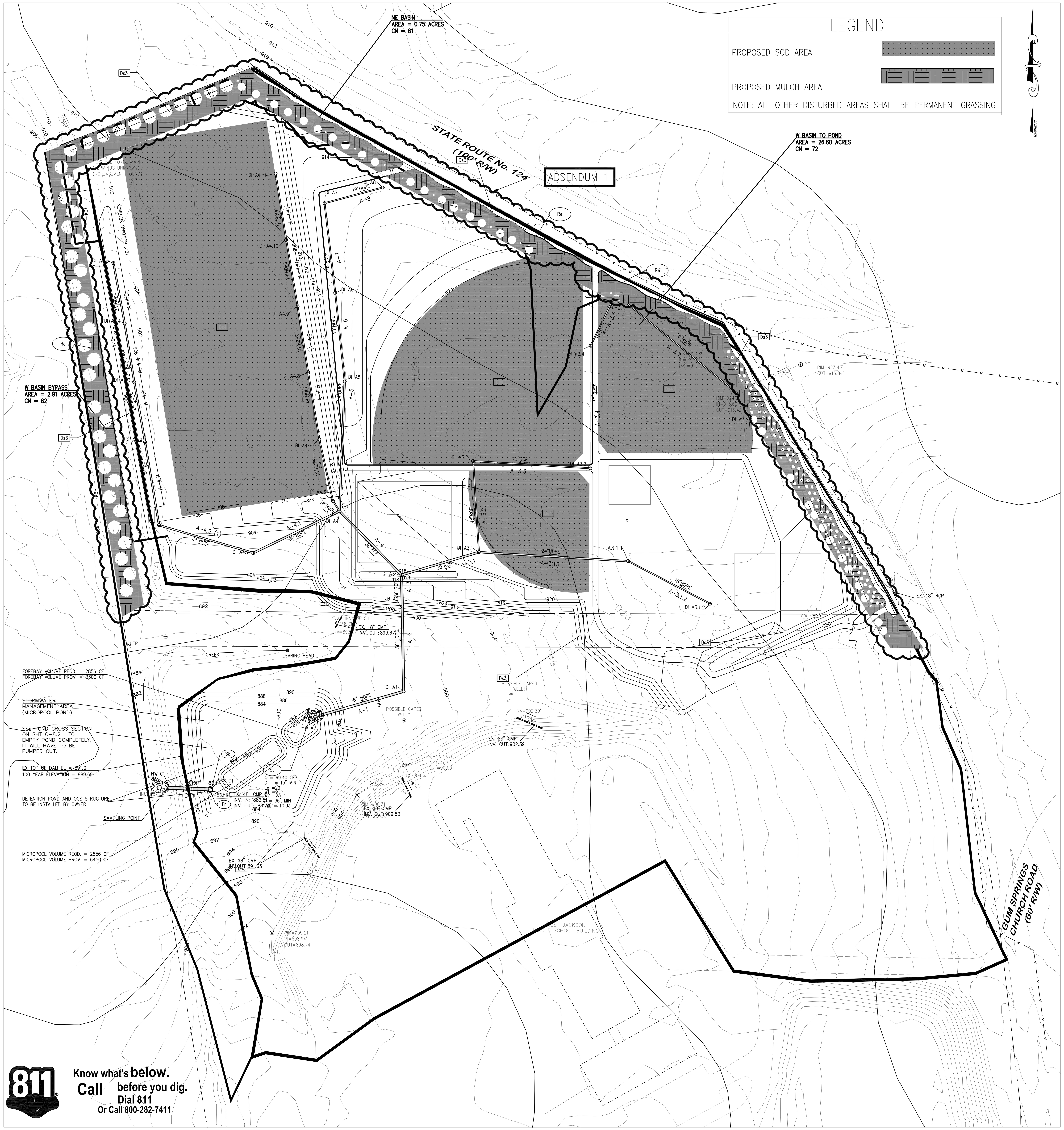
CONSTRUCTION PLANS FOR:
GUM SPRINGS PARK
GA STATE ROUTE 124
JACKSON COUNTY, GA

SHEET TITLE
EROSION CONTROL PLAN INTERMEDIATE

SHEET NUMBER
C-6.5

SCALE SEE PLAN
DATE 1–10–20
PROJECT NO. –

811 Know what's below. Call before you dig. Dial 811 Or Call 800-282-7411



Erosion Control Notes:

1. THE CONSTRUCTION EXIT SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC STREETS.
2. SILT FENCES AND HAY BALE BARRIERS SHALL BE CLEANED OR REPLACED AND MAINTAINED IN FUNCTIONAL CONDITION UNTIL PERMANENT EROSION CONTROL MEASURES ARE ESTABLISHED.
3. SILT FENCE FABRIC SHALL BE COMPRISED OF GA DOT QPL 36.
4. ALL GRASSING SHALL BE IN ACCORDANCE WITH CH 6, SECTION III "VEGETATION PRACTICES" OF THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA.
5. ALL WORK SHALL BE PERFORMED IN ACCORDANCE TO THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GA.
6. THE CONTRACTOR SHALL CLEAN OUT ALL ACCUMULATED SILT FROM THE DETENTION AND SEDIMENT PONDS ONCE ALL DISTURBED AREAS ARE STABILIZED WITH PERMANENT VEGETATION.
7. EROSION CONTROL DEVICES WILL BE IN PLACE BEFORE SITE DISTURBANCE AND WILL BE PERIODICALLY INSPECTED AND REPAIRED OR RESTORED AS NEEDED TO FUNCTION PROPERLY UNTIL PERMANENT MEASURES ARE ESTABLISHED AND PROJECT IS COMPLETE. CONSTRUCTION EXITS AND SILT FENCES SHALL BE RETOPPED OR CLEANED AS SILT REDUCES THEIR EFFECTIVENESS.
8. ANY ADDITIONAL CONSTRUCTION OTHER THAN SHOWN ON THIS PLAN WILL REQUIRE SEPARATE AND ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES AND APPROVAL.
9. TEMPORARY VEGETATION AND/OR HEAVY MULCH WILL BE USED TO STABILIZE AREAS. IN NO CASE SHALL A SITE BE LEFT BARE FOR MORE THAN 7 DAYS.
10. ALL DISTURBED AREAS WILL BE PERMANENTLY LANDSCAPED AND GRASSED AS SOON AS CONSTRUCTION PHASES PERMIT.
11. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED TO CONTROL EROSION AS DETERMINED NECESSARY BY TEH GOVERNING JURISDICTION SITE INSPECTORS.
12. CUT AND FILL SLOPES NOT TO EXCEED 2H: 1V.
13. EROSION CONTROL MEASURES TO BE INSPECTED DAILY..
14. EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.
15. IN CONCENTRATED FLOW AREAS, ALL SLOPES STEEPER THAN 2.5:1 AND WITH A HEIGHT 10' OR GREATER SHALL BE STABILIZED WITH THE APPROPRIATE EROSION CONTROL MATTING OR BLANKET.
16. DISTRIBUTED AREAS LEFT IDLE FOR 7 DAYS AND NOT TO FINAL GRADE, WILL BE ESTABLISHED TO PERMANENT VEGETATION(DS2). ALL AREAS TO FINAL GRADE, WILL BE ESTABLISHED TO TEMPORARY VEGETATION(DS3) IMMEDIATELY UPON COMPLETION.
17. WHEN PLANTING VEGETATION, MULCH (HAY OR STRAW) SHOULD BE UNIFORMLY SPREAD OVER SEEDED AREA WITHIN 24 HOURS OF SEEDING.
18. SEDIMENT AND EROSION CONTROL DEVICES MUST BE CHECKED AFTER EACH STORM EVENT. EACH DEVICE IS TO BE MAINTAINED OR REPLACED IF SEDIMENT ACCUMULATION HAS REACHED ON HALF THE CAPACITY OF THE DEVICE. ADDITIONAL DEVICES MUST BE INSTALLED IF NEW CHANNELS HAVE DEPLOYED.

Vegetative Plan

- APPLY Ds2 AS SOON AS ROUGH GRADING IS COMPLETE
- APPLY Ds3 ONCE FINAL GRADE IS COMPLETE

Ds1 MULCHING – USE STRAW OR HAY 2.5 TONS PER ACRE

Ds2 SEPTEMBER THROUGH FEBRUARY, USE WINTER RYE 4 LB/1000 SF
APRIL THROUGH AUGUST, USE KENTUCKY 31 FESCUE 4 LB/1000 SF

Ds3 OCTOBER THROUGH MARCH, USE UNHULLED BERMUDA 4LB/1000 SF
APRIL THROUGH JULY, USE ZENITH ZOYSIA 4LB/1000 SF
AUGUST THROUGH SEPTEMBER, USE KENTUCKY 31 FESCUE

Ds4 OCTOBER THROUGH MARCH, USE KENTUCKY 31 FESCUE
APRIL THROUGH SEPTEMBER, UNHULLED BERMUDA

DETENTION POND: OWNER IS RESPONSIBLE FOR CLEARING, GRUBBING AND ANYTHING ASSOCIATED WITH EROSION CONTROL FROM POND TO STORM A1.
- RIP-RAP
- HEADWALL
- FLOATING SURFACE SKIMMER
- FILTER RING
- STABILIZING

For Bidding Only

GRAPHIC SCALE
60 0 30 60 120 240
(IN FEET)
1 inch = 60 ft.

EROSION CONTROL SYMBOLS LEGEND

STRUCTURAL PRACTICES

CODE	PRACTICE	DESCRIPTION
Cd	CHECKDAM	A small temporary barrier or dam constructed across a swale, drainage ditch or area of concentrated flow.
Ch	CHANNEL STABILIZATION	Improving, constructing or stabilizing an open channel, existing stream, or ditch.
Co	CONSTRUCTION EXIT	A crushed stone pad located at the construction site exit to provide a place for removing mud from tires thereby protecting public streets.
Cr	CONSTRUCTION ROAD STABILIZATION	A travelway constructed as part of a construction plan including access roads, subdivision roads, parking areas and other on-site vehicle transportation routes.
Dc	STREAM DIVERSION CHANNEL	A temporary channel constructed to convey flow around a construction site while a permanent structure is being constructed.
Di	DIVERSION	An earth channel or dike located above, below, or across a slope to divert runoff. This may be a temporary or permanent structure.
Dn1	TEMPORARY DOWNDRAIN STRUCTURE	A flexible conduit of heavy-duty fabric or other material designed to safely conduct surface runoff down a slope. This is temporary and inexpensive.
Dn2	PERMANENT DOWNDRAIN STRUCTURE	A paved chute, pipe, sectional conduit or similar material designed to safely conduct surface runoff down a slope.
Fr	FILTER RING	A temporary stone barrier constructed at storm drain inlets and pond outlets.
Ga	GABION	Rock filter baskets which are hand-placed into position forming soil stabilizing structures.
Gr	GRADE STABILIZATION STRUCTURE	Permanent structures installed to protect channels or waterways where otherwise the slope would be sufficient for the running water to form gullies.
Lv	LEVEL SPREADER	A structure to convert concentrated flow of water into less erosive sheet flow. This should be constructed only on undisturbed soils.
Rd	ROCK FILTER DAM	A permanent or temporary stone filter dam installed across small streams or drainageways.
Rt	RETRO FITTING	A device or structure placed in front of a permanent stormwater detention pond outlet structure to serve as a temporary sediment filter.
Sd1	SEDIMENT BARRIER	A barrier to prevent sediment from leaving the construction site. It may be sandbags, bales of straw or hay, brush, logs and poles, gravel, or a silt fence.
Sd2	INLET SEDIMENT TRAP	An impounding area created by excavating around a storm drain drop inlet. The excavated area will be filled and stabilized on completion of construction activities.
Sd3	TEMPORARY SEDIMENT BASIN	A basin created by excavation or a dam across a waterway. The surface water runoff is temporarily stored allowing the bulk of the sediment to drop out.
Sd4	TEMPORARY SEDIMENT TRAP	A small temporary pond that drains a disturbed area so that sediment can settle out. The principle feature distinguishing a temporary sediment trap from a temporary sediment basin is the lack of a pipe or riser.
Sk	FLOATING SURFACE SKIMMER	A buoyant device that releases/drains water from the surface of sediment ponds, traps, or basins at a controlled rate of flow.
Spb	SEEP BERM	Linear control device constructed as a diversion perpendicular to the direction of runoff to enhance dissipation and infiltration, while creating multiple sedimentation chambers with the employment of intermediate dikes.
Sr	TEMPORARY STREAM CROSSING	A temporary bridge or culvert-type structure protecting a stream or watercourse from damage by crossing construction equipment.
St	STORMDRAIN OUTLET PROTECTION	A paved or short section of riprap channel at the outlet of a storm drain system preventing erosion from the concentrated runoff.
Su	SURFACE ROUGHENING	A rough soil surface with horizontal depressions on a contour or slopes left in a roughened condition after grading.
Tc	TURBIDITY CURTAIN	A floating or staked barrier installed within the water (it may also be referred to as a floating boom, silt barrier, or silt curtain).
Tp	TOPSOILING	The practice of stripping off the more fertile soil, storing it, then spreading it over the disturbed area after completion of construction activities.
Tr	TREE PROTECTION	To protect desirable trees from injury during construction activity.
Wt	VEGETATED WATERWAY	Paved or vegetative water outlets for diversions, terraces, berms, dikes or similar structures.

VEGETATED PRACTICES

CODE	PRACTICE	DESCRIPTION
Bf	BUFFER ZONE	Strip of undisturbed original vegetation, enhanced or restored existing vegetation or the reestablishment of vegetation surrounding an area of disturbance or bordering streams.
Cs	COASTAL DUNE STABILIZATION (WITH VEGETATION)	Planting vegetation on dunes that are denuded, artificially constructed, or re-nourished.
Ds1	DISTURBED AREA STABILIZATION (WITH MULCHING ONLY)	Establishing temporary protection for disturbed areas where seedlings may not have a suitable growing season to produce an erosion retarding cover.
Ds2	DISTURBED AREA STABILIZATION (WITH TEMP SEEDING)	Establishing a temporary vegetative cover with fast growing seedings on disturbed areas.
Ds3	DISTURBED AREA STABILIZATION (WITH PERM SEEDING)	Establishing a permanent vegetative cover such as trees, shrubs, vines, grasses, or legumes on disturbed areas.
Ds4	DISTURBED AREA STABILIZATION (SODDING)	A permanent vegetative cover using sods on highly erodable or critically eroded lands.
Du	DUST CONTROL ON DISTURBED AREAS	Controlling surface and air movement of dust on construction site, roadways and similar sites.
Fl-Co	FLOCCULANTS AND COAGULANTS	Substance formulated to assist in the solids/liquid separation of suspended particles in solution.
Sb	STREAMBANK STABILIZATION (USING PERM VEGETATION)	The use of readily available native plant materials to maintain and enhance streambanks, or to prevent, or restore and repair small streambank erosion problems.
Ss	SLOPE STABILIZATION	A protective covering used to prevent erosion and establish temporary or permanent vegetation on steep slopes, shore lines, or channels.
Tac	TACKIFIERS AND BINDERS	Substance used to anchor straw or hay mulch by causing the organic material to bind together.

BMK CONSTRUCTION & ENGINEERING
PO BOX 878
BRASELTON, GA 30517
BUSINESS: 706-824-0514
FAX: 706-824-0519
LICENSE #: PEF005337
ISSUED: 4/1/18
EXPIRES: 6/30/22

GEORGIA REGISTERED PROFESSIONAL ENGINEER No. 029212 Donald B. Clerici, Jr.
GSWCC LEVEL II CERTIFICATION #: 804

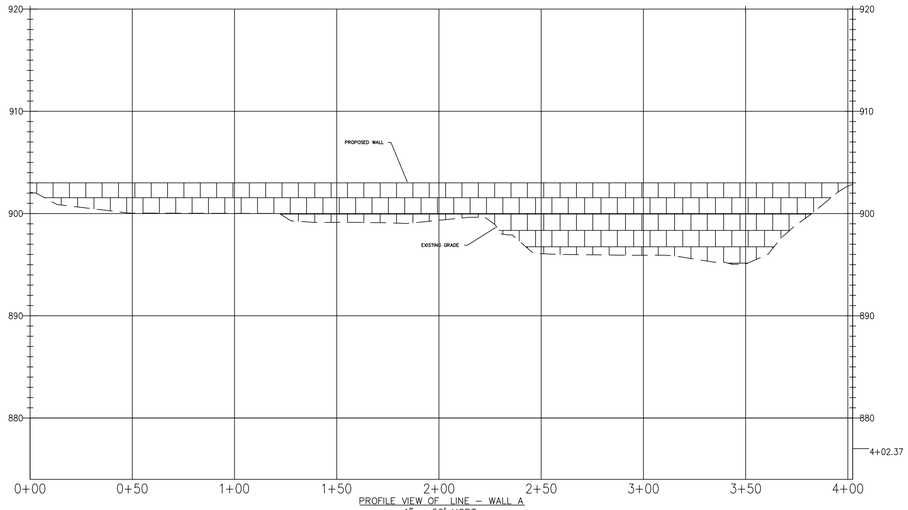
REVISIONS

NO.	DATE	DESCRIPTION
1	4-8-20	JACKSON COUNTY COMMENTS
2	6-1-20	GSWCC, JCWSA & JACKSON COUNTY COMMENTS
3	6-19-20	JCWSA COMMENTS / ADDENDUM NO. 1
4	6-29-20	JCWSA COMMENTS
5	7-6-20	ADDENDUM NO. 2

CONSTRUCTION PLANS FOR:
GUM SPRINGS PARK
GA STATE ROUTE 124
JACKSON COUNTY, GA

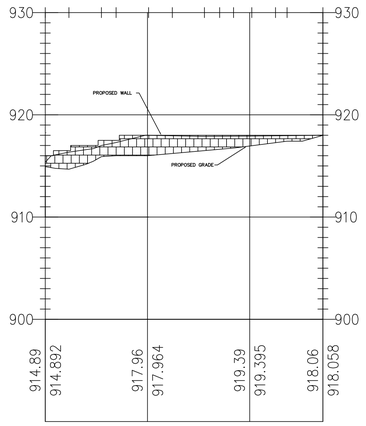
SHEET TITLE: EROSION CONTROL PLAN - FINAL
SHEET NUMBER: C-6.6
SCALE: SEE PLAN
DATE: 1-10-20
PROJECT NO.: –

MODULAR BLOCK WALL A



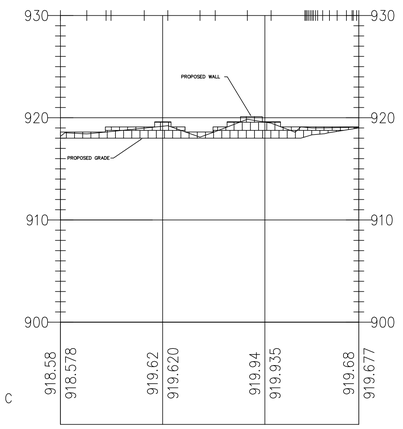
PROFILE VIEW OF LINE – WALL A
1" = 50' HORT.
1" = 10' VERT.

MODULAR BLOCK WALL B



PROFILE VIEW OF WALL B
1" = 50' HORT.
1" = 10' VERT.

MODULAR BLOCK WALL C



PROFILE VIEW OF WALL C
1" = 50' HORT.
1" = 10' VERT.

ADDENDUM 2

MODULAR BLOCK WALL NOTE:

RETAINING WALL DESIGN MUST BE SUBMITTED TO JACKSON COUNTY FOR APPROVAL PRIOR TO CONSTRUCTION PLAN APPROVAL. WALL DESIGN MUST INCLUDE DETAILS AND SPECIFICATIONS THAT ARE SITE SPECIFIC AND MUST BE SIGNED AND SEALED BY A REGISTERED PROFESSIONAL ENGINEER IN THE STATE OF GEORGIA.

For Bidding Only

BMK CONSTRUCTION & ENGINEERING
P.O. BOX 878
BRASELTON, GA 30517
BUS: 706-654-7514
FAX: 706-824-0519
LICENSE #: PEF005337
ISSUED: 1/1/18
EXPIRES: 6/30/22

GEORGIA REGISTERED No. 029212 PROFESSIONAL ENGINEER Donald B. Clerici, JR.

GSWCC LEVEL II
CERTIFICATION # 804

REVISIONS

NO.	DATE	DESCRIPTION
1	4-8-20	ADDENDUM
2	6-1-20	CONSTRUCTION PLANS
3	6-19-20	ACWA PERMIT SUBMITTAL
4	6-29-20	ACWA PERMIT SUBMITTAL
5	7-6-20	ADDENDUM NO. 2

CONSTRUCTION PLANS FOR:
GUM SPRINGS PARK
GA STATE ROUTE 124
JACKSON COUNTY, GA

SHEET TITLE
WALL PROFILES

SHEET NUMBER
C-7.2

SCALE SEE PLAN

DATE 1-10-20

PROJECT NO.
—