ADDENDUM NO. ONE (1)
TOWN OF BRASELTON, GEORGIA
2026 GROUNDWATER EXPANSION AND DISTRIBUTION STORAGE
ISSUED JANUARY 15, 2026

RE: 2026 GROUNDWATER EXPANSION AND DISTRIBUTION STORAGE
EMI PROJECT No. 18-021

FROM: ENGINEERING MANAGEMENT, INC.
303 SWANSON DRIVE
LAWRENCEVILLE, GA 30043
WILEY HELM, P.E.

TO: PROSPECTIVE BIDDERS

This Addendum forms a part of the Contract Documents and Drawings and modifies the original bidding documents dated December 2025.

The purpose of this Addendum is to provide additional equipment information where necessary note minor changes to the Drawings. The following items of the Contract Documents are modified as part of this Addendum:

Clarifications

1. Erosion Control drawings EC-A through EC-C have been updated for permitting requirements.

2. Does the above project currently have an estimated value or mobilization date?

   EMI Response: The opinion of probable cost is $8.5-million. The mobilization date will be determined by all parties at the pre-construction meeting. Expected timeline for mobilization would be Q2 of 2026.

3. What material is the ground water storage tank to be constructed out of?

   EMI Response: The storage tank will be constructed out of pre-stressed concrete.

4. Is there a specified manufacturer for the well pumps?

   EMI Response: The well pumps used Grundfos for the basis of design. Equal manufacturers include Franklin Electric or Goulds. Specification Section 11216 will be revised accordingly.

5. What is the duty point for the in-line multi-stage pumps?

   EMI Response: The in-line multi-stage pumps were designed to operate in parallel. The duty point with both pumps running is 2,800 GPM at 435ft of TDH. Specification Section 11230 will be revised accordingly.

6. Please clarify the number of chemical storage tanks specified in Section 11244?

EMI Response: The total number of chemical tanks provided by the Contractor is four (4). Specification Section 11244 will be revised accordingly.

Plans

- *Plan sheets EC-A, EC-B, and EC-C have been revised. See attached revised plan sheets.*

Specifications

- *Section 11216, Deep Well Submersible Pump*

  Add paragraph 2.02.A (revisions are shown in bold and italics below):

  A. Manufacturers – Provide equipment from one of the following:

  1. Grundfos
  2. Goulds
  3. Franklin Electric
  4. ***Or approved equal***

- *Section 11230, In-line Multi-Stage Pumps*

  Add paragraph 2.01.A and B (revisions are shown in bold and italics below):

  A. The pump(s) shall be selected to meet the following criteria:

  1. Parallel Pumping (both (2) pumps on)
  a. 2,800 gpm @ 435' TDH

  B. Manufacturers – Provide equipment from one of the following:

  1. Grundfos
  2. Approved equal

- *Section 11244, Chemical Storage Tanks*

  Revise paragraph 2.03.A as follows (revisions are shown in bold and italics below):

  2.03 SERVICE CONDITIONS

  A. The CONTRACTOR shall supply ***four*** (4) HDPE chemical storage tanks, ***two*** (2) for storage of caustic soda and two (2) for the storage of sodium hypochlorite. The caustic soda bulk storage tank shall have a capacity of 1,500 gallons and be double walled with a flat bottom and domed top. The caustic soda day tank shall have a capacity of 50 gallons with a flat bottom. The sodium hypochlorite bulk storage tank shall have a capacity of 1,000 gallons and be double walled with a flat bottom and domed top. The sodium hypochlorite day tank shall have a capacity of 50 gallons with a flat bottom.

END OF ADDENDUM NO. 1

PROJECT DESCRIPTION:
THIS PROJECT CONSISTS OF THE CONSTRUCTION OF A GROUND WATER SYSTEM, WATER TANK, TREATMENT BUILDING, A WATERLINE AND A BACKWASH WASTE DISCHARGE LINE FOR THE TOWN OF BRASELTON. THIS TREATMENT SYSTEM WILL BE INSTALLED INSIDE TOWN, COUNTY, & STATE RIGHT-OF-WAYS, AND PRIVATE EASEMENTS. THE PROJECT WILL PROVIDE ADDITIONAL WATER TO THE WATER SYSTEM FOR THE TOWN OF BRASELTON. TOTAL LIMITS OF DISTURBANCE = 195,186 S.F. = 4.48 ACRES.

CONSTRUCTION ACTIVITIES FOR THE PROJECT WILL INCLUDE THE FOLLOWING:
IT IS ESTIMATED THE AMOUNT OF DISTURBED AREA FOR THIS CONSTRUCTION PROJECT WILL BE 4.48 ACRES AND CONSTRUCTION ACTIVITIES REQUIRED FOR THIS PROJECT WILL INCLUDE:

- INSTALLATION AND MAINTENANCE OF EROSION AND SEDIMENTATION CONTROL MEASURES
- CLEARING OPERATIONS WHERE NECESSARY
- CONSTRUCTION OF TWO (2) WELL HOUSES, STORAGE TANK, AND TREATMENT BUILDING.
- TRENCH EXCAVATION, TEMPORARY STOCKPILING OF EXCAVATED MATERIAL, INSTALLATION OF WATER AND SEWER LINES AND APPURTENANCES, AND BACKFILLING OF TRENCH
- BORING UNDER EXISTING ROADS AND DRIVEWAYS FOR PIPELINE INSTALLATION
- ESTABLISHING TEMPORARY AND PERMANENT VEGETATION

SEE SHEET EC-C FOR PROJECT LOCATION, IDENTIFICATION OF RECEIVING WATERS, IDENTIFICATION AND ACERAGE OF ONSITE AND OFF SITE DRAINAGE BASINS, AND STORM WATER SAMPLING LOCATIONS.

SEDIMENT STORAGE:

CONSTRUCTION ACTIVITY INCLUDES GRADING, PAVING, INSTALLATION OF METAL BUILDINGS, CONCRETE STRUCTURES, BURIED UTILITY LINES (WATER, SEWER, ELECTRIC), AND MAINTAINING THE EROSION CONTROL MEASURES AND GRASSING OF ALL DISTURBED AREAS. GIVEN THE LINEAR NATURE OF THE PROJECT, SILT FENCE AND TEMPORARY AND PERMANENT GRASSING WILL BE USED FOR SEDIMENT CONTROL FOR THE PROJECT.

DISTURBED AREA TOTAL = 195,186 SQ. FT. X (1 ACRE/43,560 SQ. FT.) = 4.48 ACRES

REQUIRED VOLUME OF SEDIMENT STORAGE: (4.48 ACRES)(67 C.Y./ACRE) = 301 C.Y.

STORAGE PROVIDED:

SILT FENCE STORAGE: 1 L.F. X 1.53' HIGH X 1.5' DEEP = 0.09 C.Y./1L.F.

TOTAL AMOUNT OF SILT FENCE = 7,922 L.F., TOTAL SILT FENCE STORAGE: (7,922 L.F.)(0.09 C.Y./L.F) = 713 C.Y.

POLLUTION PREVENTION PRACTICES & REMEDIATION OF PETROLEUM SPILLS AND LEAKS:

THE CONTRACTOR IS PROHIBITED FROM STORING OIL OR ANY HAZARDOUS WASTE MATERIAL AT THE CONSTRUCTION SITE. CONSTRUCTION EQUIPMENT AND VEHICLES ARE THE ONLY ANTICIPATED SOURCE OF POTENTIAL POLLUTION EXPECTED WITHIN THE CONSTRUCTION AREA FOR THIS PROJECT.

PREVENTION OF SPILLS AND LEAKS-

THE CONTRACTOR IS RESPONSIBLE FOR MINIMIZING THE POTENTIAL OF POLLUTION FROM EQUIPMENT AND VEHICLE LEAKS OR SPILLS REACHING ANY RECEIVING WATERS. AT A MINIMUM, THE FOLLOWING PRACTICES SHALL BE IMPLEMENTED:

REGULARLY INSPECT ONSITE VEHICLES AND EQUIPMENT FOR LEAKS AND REPAIR IMMEDIATELY.

CHECK INCOMING VEHICLES AND EQUIPMENT FOR LEAKING OIL AND FLUIDS. DO NOT ALLOW LEAKING VEHICLES OR EQUIPMENT ONSITE.

IF FUELING MUST OCCUR ONSITE, USE LOCATIONS AWAY FROM DRAINAGE COURSES TO PREVENT THE RUNON OF STORMWATER AND THE RUNOFF OF SPILLS. ALWAYS USE SECONDARY CONTAINMENT, SUCH AS A DRAIN PAN, WHEN FUELING TO CATCH SPILLS/LEAKS.

IF MAINTENANCE MUST OCCUR ONSITE, USE A DESIGNATED AREA AND SECONDARY CONTAINMENT, LOCATED AWAY FROM DRAINAGE COURSES, TO PREVENT THE RUNON OF STORMWATER AND THE RUNOFF OF SPILLS.

ALWAYS USE SECONDARY CONTAINMENT, SUCH AS DRAIN PAN OR DROP CLOTH, TO CATCH SPILLS OR LEAKS WHEN REMOVING OR CHANGING FLUIDS. PROMPTLY TRANSFER USED FLUIDS TO PROPER WASTE OR RECYCLING CONTAINERS. IMMEDIATELY REMOVE FROM SITE AND AND DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.

CLEANUP OF PETROLEUM LEAKS OR SPILLS-

CLEAN UP LEAKS AND SPILLS IMMEDIATELY. NEVER HOSE DOWN OR BURY SPILLS. REMOVE CONTAMINATED SOILS AND DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.

SPILL CLEANUP AND CONTROL PRACTICES:

- Local, State and manufacturer's recommended methods for spill cleanup will be clearly posted and procedures will be made available to site personnel.
- Material and equipment necessary for spill cleanup will be kept in the material storage areas. Typical Materials and equipments includes, but is not limited to, brooms, dustpans, mops, rags, gloves, goggles, cat litter, sand, sawdust and properly labeled plastic and metal waste containers.
- Spill prevention practices and procedures will be reviewed after a spill and adjusted as necessary to prevent future spills.
- All spills will be cleaned up immediately upon discovery. All spills will be reported as required by local, State, and Federal regulations.
- FOR SPILLS THAT IMPACT SURFACE WATER (LEAVE A SHEEN ON SURFACE WATER), THE NATIONAL RESPONSE CENTER (NRC) WILL BE CONTACTED WITHIN 24 HOURS AT 1-800-424-8802.
- FOR SPILLS OF AN UNKNOWN AMOUNT, THE NATIONAL RESPONSE CENTER (NRC) WILL BE CONTACTED WITHIN 24 HOURS AT 1-800-424-8802.
- FOR SPILLS GREATER THAN 25 GALLONS AND NO SURFACE WATER IMPACTS OCCUR, THE GEORGIA E.P.D. WILL BE CONTACTED WITHIN 24 HOURS.
- FOR SPILLS LESS THAN 25 GALLONS AND NO SURFACE WATER IMPACTS OCCUR, THE SPILL WILL BE CLEANED UP AND LOCAL AGENCIES WILL BE CONTACTED AS REQUIRED.

The contractor shall notify the licensed professional who prepared this plan if more than 1320 gallons of petroleum is stored onsite (this includes capacities of equipment) or if any one piece of equipment has a capacity greater than 660 gallons. The contractor will need a Spill Prevention Containment and Countermeasures Plan prepared by that licensed professional.

POST CONSTRUCTION POLLUTION CONTROL MEASURES:

THIS PROJECT INCLUDES THE CONSTRUCTION OF GROUND WATER SYSTEM, WATER TANK, TREATMENT BUILDING, ACCESS ROAD, AND BURIED UTILITY LINES (WATER, SEWER, ELECTRIC). DISTURBED AREAS WILL BE RETURNED TO PRE-CONSTRUCTION GRADES AND SLOPES AND PERMANENT GRASS VEGETATION WILL BE ESTABLISHED AS THE PIPELINE IS INSTALLED TO CONTROL POLLUTANTS IN STORM WATER THAT WILL OCCUR AFTER CONSTRUCTION OPERATIONS HAVE BEEN COMPLETED.

THE CONTRACTOR SHALL ENSURE SATISFACTORY GROWTH AND COVERAGE OF PERMANENT GRASS VEGETATION ON DISTURBED AREAS. GRASSED AREAS WILL BE CONSIDERED ACCEPTABLE WHEN PERMANENT GRASS VEGETATION HAS REACHED A POINT OF MATURITY, COVERAGE IS AT LEAST 95% OF THE TOTAL AREA WITH NO BARE SPOTS EXCEEDING ONE SQUARE FOOT, AND GROUND SURFACE IS FULLY STABILIZED AGAINST EROSION. SILT FENCE AND CHECKS DAMS INSTALLED DURING INSTALLATION OF THE PIPELINE WILL BE KEPT IN PLACE AND MAINTAINED UNTIL PERMANENT VEGETATION HAS BEEN EFFECTIVELY ESTABLISHED AND CONTRACTOR HAS RECEIVED FINAL ACCEPTANCE BY THE OWNER.

WASTE MATERIALS:

WASTE MATERIALS SHALL NOT BE DISCHARGED TO WATERS OF THE STATE, EXCEPT AS AUTHORIZED BY A SECTION 404 PERMIT. ANY WASTE MATERIAL FROM CONSTRUCTION ACTIVITIES SHALL BE COLLECTED AND STORED IN A SECURE, LIDDED CONTAINER. AT THE END OF EACH WORK DAY WASTE MATERIAL SHALL BE REMOVED FROM THE CONSTRUCTION SITE AND DISPOSED OF PROPERLY.

IF EXISTING SANITARY FACILITIES ARE UNAVAILABLE, PORTABLE SANITARY FACILITIES SHALL BE PROVIDED. CONTRACTOR SHALL PAY THE COST FOR INSTALLATION, MAINTENANCE, AND REMOVAL OF TEMPORARY SANITARY FACILITIES. UNITS SHALL BE CLEANED AND SANITARY WASTE SHALL BE COLLECTED A MINIMUM OF ONE TIME PER WEEK BY A LICENSED PORTABLE FACILITY PROVIDER AND IN COMPLIANCE WITH LOCAL AND STATE REGULATIONS.

UNITS SHALL BE LOCATED AT SUCH PLACES AS APPROVED BY THE OWNER AND WHERE THE LIKELIHOOD OF THE UNIT CONTRIBUTING TO STORM WATER DISCHARGE IS NEGLIGIBLE.

THESE PLANS ARE IN COMPLIANCE WITH APPLICABLE STATE AND LOCAL WASTE DISPOSAL, SANITARY SEWER, AND SEPTIC SYSTEM REGULATIONS.

PRODUCT SPECIFIC PRACTICES:

Petroleum Based Products- Containers for products such as fuels, lubricants, and tars will be inspected daily for leaks and spills. This includes onsite vehicles and machinery daily inspections and regular preventative maintenance of such equipment. Equipment maintenance areas will be located away from State Waters, natural drains, and storm water drainage inlets. In addition, temporary fueling tanks shall have a secondary containment liner to prevent/minimize site contamination. Discharge of oils, fuels, and lubricants is prohibited. Proper disposal methods will include collection in a suitable container and disposal as required by local and State regulations.

Paints/Finishes/solvents- All products will be stored in tightly sealed original containers when not in use. Excess product will not be discharged to the storm water collection system. Excess product, materials used with these products, and product containers will be disposed of according to manufacturer's specifications and recommendations.

Fertilizer/Herbicides- These products will be applied at rates that do not exceed the manufacturer's specifications or above the guidelines set forth in the crop establishment or in the GSWCC Manual for Erosion and Sediment Control in Georgia. Any storage of these materials will be under roof in sealed containers.

Building Materials- No building or construction materials will be buried or disposed of onsite. All such material will be disposed of in proper waste disposal procedures.

INSPECTION OF BMP'S:

CONTRACTOR SHALL NOTIFY THE ES&PC DESIGN PROFESSIONAL WHEN INITIAL CONSTRUCTION ACTIVITY IS TO BEGIN. THE ES&PC DESIGN PROFESSIONAL WILL INSPECT THE INSTALLATION OF BMP'S WITHIN 7 DAYS AFTER INITIAL CONSTRUCTION ACTIVITY BEGINS.

COVER FOR BUILDING MATERIAL/PRODUCTS

CONTRACTOR TO UTILIZE PLASTIC SHEETING OR TEMPORARY ROOFS, TO COVER BUILDING MATERIALS BUILDING PRODUCTS, CONSTRUCTION WASTES, TRASH, LANDSCAPE MATERIALS, FERTILIZERS, PESTICIDES, HERBICIDES, DETERGENTS, SANITARY WASTE, AND OTHER MATERIALS IN ORDER TO MINIMIZE EXPOSURE TO PRECIPITATION AND TO STORMWATER. CONTRACTOR TO ANCHOR COVER TO PREVENT COVER FROM BEING REMOVED BY WIND.

CONCRETE WASHDOWN:

BMP for concrete washdown of tools, mixer chutes, & hoppers:
a temporary concrete washdown area shall be provided as shown on sheet EC-5-2. Refer to detail on sheet EC-5-2 for further information.
Washout of concreted drum at the construction site is prohibited. Unused wet concrete shall not be dumped at the construction site.

GEORGIA MILITIA DISTRICT, ADJACENT & CRITICAL AREAS INFORMATION:

THIS PROJECT IS LOCATED IN G.M.D. 1765 JACKSON COUNTY. THE CONSTRUCTION AREAS FOR THE GROUND WATER SYSTEM, WATER TANK, TREATMENT BUILDING, A WATERLINE AND A BACKWASH DISCHARGE LINE ARE WITHIN JACKSON COUNTY OWNED RIGHT-OF-WAY, TOWN OF BRASELTON RIGHT-OF-WAY, AND PRIVATE EASEMENTS. ADJACENT PROPERTY ALONG THE WATERLINE AND BACKWASH DISCHARGE ROUTES ROAD SIDE SHOULDERS/DITCHES, EXISTING RESIDENTIAL LOTS, AND WOODLANDS LOCATED ALONG VARIOUS ROADS IN THE TOWN OF BRASELTON. UPON COMPLETION OF THE WATERLIE AND BACKWASH DISCHARGE INSTALLATION, DISTURBED AREAS SHALL BE RETURNED TO EXISTING GRADE & SLOPE AND RE-VEGETATED WITH PERMANENT GRASS. DISTURBED LANDSCAPED AREAS SUCH AS TREES, SHRUBS, GRASS LAWNS, ETC. SHALL BE RESTORED TO EXISTING GRADE & SLOPE AND REPLACED WITH MATERIALS OF LIKE KIND. AREAS CONSIDERED CRITICAL TO THE PROJECT ARE AREAS WITH STEEP SLOPES.

PRIMARY PERMITTEE:

THIS PROJECT IS A MUNICIPAL PROJECT FOR THE TOWN OF BRASELTON GOVERNMENT, IN JACKSON COUNTY, GEORGIA. A CONTRACTOR WILL NOT BE SELECTED UNTIL THE BID PROCESS IS COMPLETED. ONCE THE BID PROCESS IS COMPLETE, THE BIDDER (CONTRACTOR) AWARDED THE PROJECT ASSUMES ALL RESPONSIBILITIES OF THE PRIMARY PERMITTEE.

STATE WATERS:
AREAS OF THIS PROJECT ARE LOCATED WITHIN 200 FT OF A TRIBUTARY OF MULBERRY RIVER, AND MULBERRY RIVER WHICH IS A BIOTA IMPAIRED STREAM SEGMENT. ALL CONSTRUCTION ASSOCIATED WITH THIS PROJECT WILL OCCUR OUTSIDE THE BUFFER. NWP AND PCN SUBMITTALS ARE NOT REQUIRED. **NO ACTIVITIES WILL BE PERMITTED IN THE 25 FT STREAM BUFFER ALONG THE BANKS OF ANY STATE WATERS WITHOUT FIRST REQUIRING THE NECESSARY VARIANCES AND PERMITS.**

EXISTING LAND USE:
THE EXISTING LANDS AT THE PROJECT SITE CONSIST OF ROAD SIDE SHOULDERS/DITCHES, EXISTING RESIDENTIAL LOTS, AND WOODLANDS LOCATED ALONG VARIOUS ROADS IN THE TOWN OF BRASELTON.

LEGEND: VEGETATIVE EROSION CONTROL MEASURES

MULCHING Ds1

ALL SLOPED AREAS TO BE MULCHED AND TEMPORARILY GRASSED WITH 2 1/2 TONS PER ACRE OF DRY STRAW.

TEMPORARY GRASSING Ds2

TEMPORARY GRASSING SHALL CONSIST OF SOWING A QUICK GRASS SUCH AS RYE GRASS, BROWN TOP MILLET, OR A GRASS SUITABLE TO THE AREA AND SEASON. LIME AND FERTILIZER WILL BE OMITTED. MULCH IS NOT REQUIRED BUT SHOULD BE USED AS DICTATED BY EXISTING SITE CONDITIONS.

SPECIES	RATE	PLANTING DATE
RYE GRASS-ANNUAL	40-50#/AC.	AUGUST THRU MID-APRIL
BROWNTOP MILLET	30-40#/AC.	APRIL THRU MID-JULY
RYE	160-170#/AC.	MID-AUGUST THRU DECEMBER

PERMANENT GRASSING: Ds3

PERMANENT GRASSING SHALL CONSIST OF GROUND PREPARATION, LIMING AND FERTILIZATION, SEEDING, AND MULCHING.

THE GROUND SHALL BE PREPARED BY PLOWING AND DISKING NOT LESS THAN 4". FERTILIZER AND LIME SHALL BE UNIFORMLY MIXED INTO THE GROUND - FERTILIZER AT A RATE OF 1500#/AC. AND LIME AT 2000#/AC. THE GROUND SHALL BE FINISHED OFF SMOOTH AND UNIFORM BEING FREE OF ROCKS, CLODS, ROOTS, ETC. FERTILIZER MIXED GRADE SHALL BE EITHER 4-12-12; 6-12-12 OR 5-10-15. SEEDING SHALL BE DONE WITHIN 24 HOURS OF THE FERTILIZER APPLICATION, WEATHER PERMITTING. SEED SHALL BE UNIFORMLY SPREAD AT THE RATE SHOWN BELOW. MULCHING IS REQUIRED AND SHALL BE DONE IMMEDIATELY AFTER SEEDING. MULCH SHALL BE UNIFORMLY APPLIED OVER THE AREA LEAVING APPROXIMATELY 25% OF THE GROUND SURFACE EXPOSED. THE RATE OF APPLICATION SHALL BE DOUBLED ON SIDE SLOPES 4:1 AND STEEPER.

SPECIES	RATE	PLANTING DATE
TALL FESCUE	50#/AC.	AUGUST THRU OCTOBER
COMMON BERMUDA (HULLED)	10#/AC.	MARCH THRU JUNE
COMMON BERMUDA (UNHULLED)	10#/AC.	OCTOBER THRU FEBRUARY
WEEPING LOVEGRASS	4#/AC.	MARCH THRU JUNE

SOIL TABLE

SYMBOL	NAME	SLOPE	TEXTURE
ApB	Appling Sandy Loam	2%-6%	SANDY LOAM
ApC	Appling Sandy Loam	6%-10%	SANDY LOAM
ApD	Appling Sandy Loam	10%-15%	SANDY LOAM
Cw	Chewacla-Wehedkee Complex	0%-2%	CHEWACLA
To	Toccoa Soils	0%-2%	TOCCOA
PaE	Pacolet Sandy Loam	15%-25%	SANDY LOAM
PuD2	Pacolet Soils	10%-15%	PACOLET
W	Water		WATER

Dust Control on Disturbed Areas (Du)

DEFINITION
Controlling surface and air movement of dust on construction sites, roads, and demolition sites.

PURPOSE
- To prevent surface and air movement of dust from exposed soil surfaces.
- To reduce the presence of airborne substances that may be harmful or injurious to human health, welfare, or safety, or to animals or plant life.

CONDITIONS
This practice is applicable to areas subject to surface and air movement of dust where on and off-site damage may occur without treatment.

METHOD AND MATERIALS

A. Temporary Methods

Mulches. See standard **Ds1 - Disturbed Area Stabilization (With Mulching Only)**. Synthetic resins may be used instead of asphalt to bind mulch material. Refer to specification **Tac - Tackifiers**. Resins should be used according to manufacturer's recommendations.

Vegetative Cover. See specification **Ds2 - Disturbed Area Stabilization (With Temporary Seeding)**.

Spray-on Adhesives. These are used on mineral soils (not effective on muck soils). Keep traffic off these areas. Refer to specification **Tac - Tackifiers**.

Tillage. This practice is designed to roughen and bring clods to the surface. It is an emergency measure that should be used before wind erosion starts. Begin plowing on windward side of site. Chisel-type plows spaced about 12 inches apart, spring-toothed harrows, and similar plows are examples of equipment that may produce the desired effect.

Irrigation. This is generally done as an emergency treatment. Site is sprinkled with water until the surface is wet. Repeat as needed.

Barriers. Solid board fences, snowfences, burlap fences, crate walls, bales of hay and similar material can be used to control air currents and soil blowing. Barriers placed at right angles to prevailing currents at intervals of about 15 times their height are effective in controlling wind erosion.

Calcium Chloride. Apply at rate that will keep surface moist. May need retreatment.

B. Permanent Methods

Permanent Vegetation. See specification **Ds3 -Disturbed Area Stabilization (With Permanent Vegetation)**. Existing trees and large shrubs may afford valuable protection if left in place.

Topsoiling. This entails covering the surface with less erosive soil material. See specification **Tp - Topsoiling**.

Stone. Cover surface with crushed stone or coarse gravel. See specification **Cr-Construction Road Stabilization**.

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ACTIVITY	2026 - 2027 MONTHS: 5	6	7	8	9	10	11	12	1	2	3	4
EROSION CONTROL INSTALLATION OF SILT FENCE, AND CHECK DAMS. (Cd) (Sd1)	■	■	■	■	■	■	■	■				
ROUGH GRADING INSTALLATION OF STORM DRAINS, TRENCH EXCAVATION AND BACKFILLING FOR UTILITIES	■	■	■	■	■	■	■	■				
FINAL GRADING, CONSTRUCTION OF THE BUILDINGS, UTILITY EXCAVATION AND BACK FILLING			■	■	■	■	■	■	■	■		
INSTALLATION OF MULCHING AND/OR PERMANENT GRASSING IN AREAS WHERE WORK IS COMPLETE AND IN DISTRUBED AREAS LEFT EXPOSED FOR GREATER THAN 14 DAYS Ds1 Ds3	■	■	■	■	■	■	■	■	■	■	■	■
MAINTAIN INSTALLED EROSION CONTROL BMPS UNTIL PERMANENT VEGETATION IS ESTABLISHED AND EFFECTIVE CONTROL OF EROSION HAS BEEN ACHIEVED IN DISTURBED AREAS WHERE WORK IS COMPLETE (Cd) (Sd1) Ds1 Ds3	■	■	■	■	■	■	■	■	■	■	■	■

CERTIFICATION - ES&PC DESIGN PROFESSIONAL

"I certify under penalty of law that this plan was prepared after a site visit to the locations described herein by myself or my authorized agent, under my supervision."

"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 gather and evaluate 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."

Wiley Helm — 1/15/2026

WILEY SPEIR HELM — **DATE**
P.E. - LICENSE NO. 051941
GSWCC LEVEL II CERTIFICATION NO. 107814

24 HOUR CONTACT:

WATER SUPERINTENDENT
JEB ZEIGLER 770–680–9349

THE TOWN OF BRASELTON
4982 HIGHWAY 53
PO BOX 306
BRASELTON, GA 30517
PHONE: 706–654–3915

UTILITY CONTRACTOR/PRIMARY PERMITTEE:

TO BE DETERMINED AFTER BID PROCESS

OWNER:
THE TOWN OF BRASELTON
4982 HIGHWAY 53
PO BOX 306
BRASELTON, GA 30517
PHONE: 706–654–3915
FAX: 706–654–3109
WWW.BRASELTON.NET

PLANS WILL BE RELEASED FOR CONSTRUCTION AFTER APPROVALS ARE RECEIVED FROM ALL AGENCIES.

EROSION CONTROL NOTES:
NO BUFFER VARIANCES OR ENCROACHMENTS ARE REQUIRED FOR THIS PROJECT.

NON-EXEMPT ACTIVITIES SHALL NOT BE CONDUCTED WITHIN THE 25 OR 50-FOOT UNDISTURBED STREAM BUFFERS AS MEASURED FROM THE POINT OF WRESTED VEGETATION OR WITHIN 25-FEET OF THE COASTAL MARSHLAND BUFFER AS MEASURED FROM THE JURISDICTIONAL DETERMINATION LINE WITHOUT FIRST ACQUIRING THE NECESSARY VARIANCES AND PERMITS.

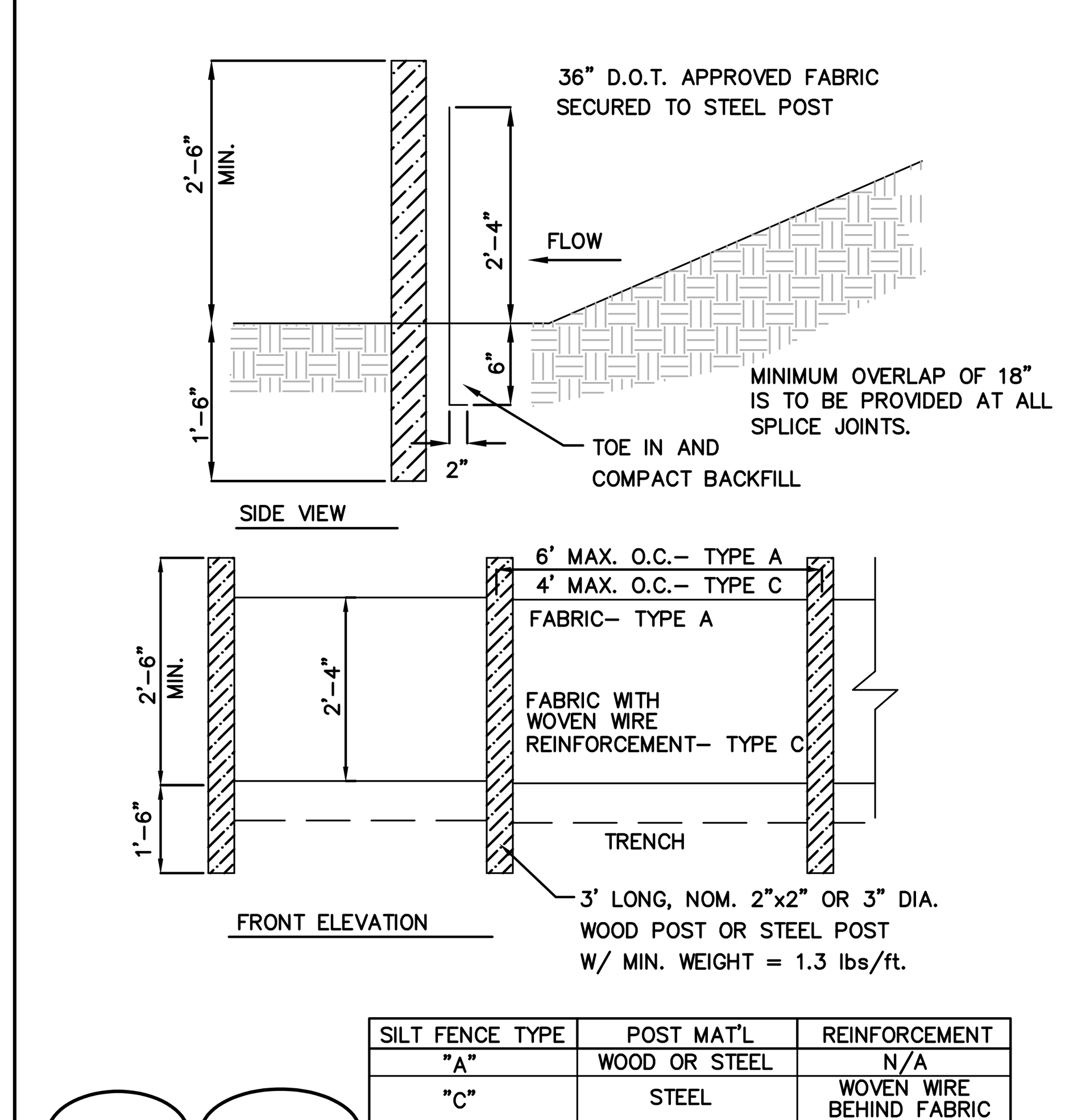
AMENDMENTS/REVISIONS TO THE ES&PC PLAN WHICH HAVE A SIGNIFICANT EFFECT ON BMPS WITH A HYDRAULIC COMPONENT MUST BE CERTIFIED BY THE DESIGN PROFESSIONAL.

THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO LAND-DISTURBING ACTIVITIES.

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. PRACTICES WILL BE CHECKED DAILY.

ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING.

THE EXTENT AND LOCATION OF EROSION CONTROL MEASURES SHOWN (SHEET ECA-EC5-3) ARE THE ESTIMATED REQUIRED. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED DUE TO THE ACTUAL FIELD CONDITIONS, AND WILL BE INSTALLED AT THE OWNER/DEVELOPERS EXPENSE WHEN DIRECTED BY THE PROPER GOVERNING AUTHORITY.

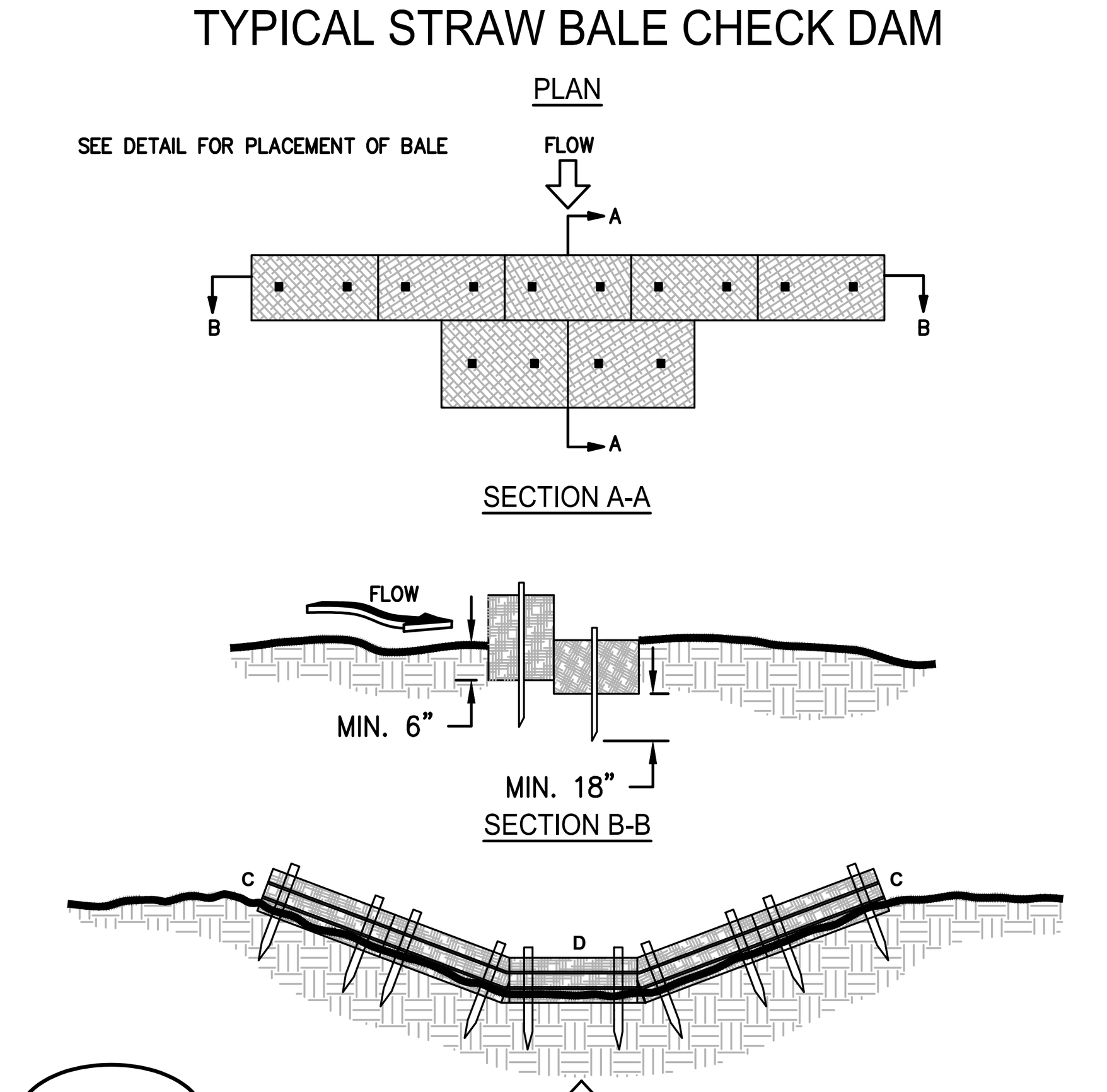


SILT FENCE TYPE	POST MAT'L	REINFORCEMENT
"A"	WOOD OR STEEL	N/A
"C"	STEEL	WOVEN WIRE BEHIND FABRIC

Sd1-S Sd1-NS

SILT FENCE TYPES "A" & "C" — Engineering Management Associates, Inc. EC22

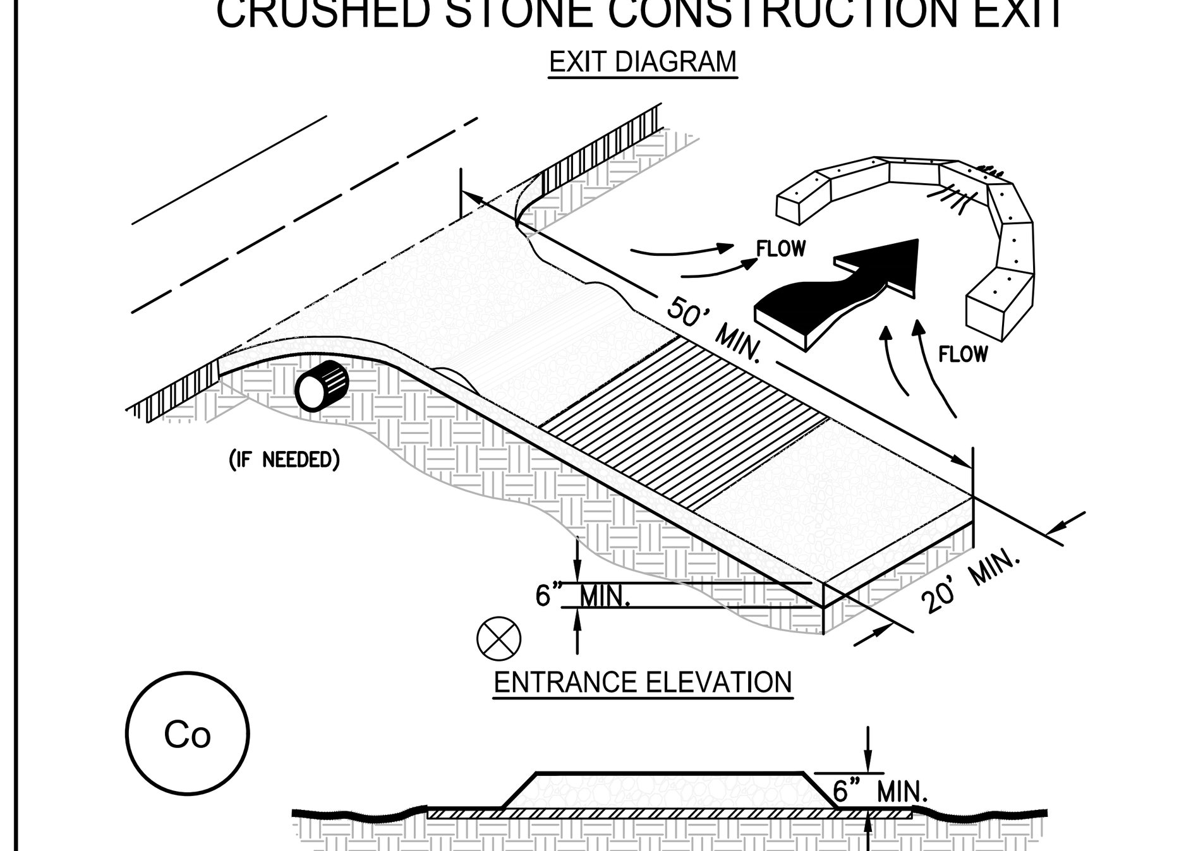
TYPICAL STRAW BALE CHECK DAM



NOTES:
1. BALES SHOULD BE BOUND WITH WIRE OR NYLON STRING AND SHOULD BE PLACED IN ROWS WITH BALE ENDS TIGHTLY ABUTTING THE ADJACENT BALES.
2. REMOVE #4 REBAR AFTER STRAW BALES ARE NO LONGER IN PLACE.
3. POINT C OF SECTION B-B SHOULD ALWAYS BE HIGHER THAN POINT D.

HAYBALE CHECK DAM — Engineering Management Associates, Inc. EC02

CRUSHED STONE CONSTRUCTION EXIT



NOTES:
1. AVOID LOCATING ON STEEP SLOPES OR AT CURVES ON PUBLIC ROADS.
2. REMOVE ALL VEGETATION AND OTHER UNSUITABLE MATERIAL FROM THE FOUNDATION AREA, GRADE, AND CROWN FOR POSITIVE DRAINAGE.
3. AGGREGATE SIZE SHALL BE IN ACCORDANCE WITH NATIONAL STONE ASSOCIATION R-2 (1.5"-3.5" STONE).
4. GRAVEL PAD SHALL HAVE A MINIMUM THICKNESS OF 6".
5. PAD WIDTH SHALL BE EQUAL FULL WIDTH AT ALL POINTS OF VEHICULAR EGRESS, BUT NO LESS THAN 20'.
6. A DIVERSION RIDGE SHOULD BE CONSTRUCTED WHEN GRADE TOWARD PAVED AREA IS GREATER THAN 2%.
7. INSTALL PIPE UNDER THE ENTRANCE IF NEEDED TO MAINTAIN DRAINAGE DITCHES.
8. WHEN WASHING IS REQUIRED, IT SHOULD BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN (DIVERT ALL SURFACE RUNOFF AND DRAINAGE FROM THE ENTRANCE TO A SEDIMENT CONTROL DEVICE).
9. WASHRACKS AND/OR TIRE WASHERS MAY BE REQUIRED DEPENDING ON SCALE AND CIRCUMSTANCE. IF NECESSARY, WASHRACK DESIGN MAY CONSIST OF ANY MATERIAL SUITABLE FOR TRUCK TRAFFIC THAT REMOVE MUD AND DIRT.
10. MAINTAIN AREA IN A WAY THAT PREVENTS TRACKING AND/OR FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAYS. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.

CONSTRUCTION EXIT — Engineering Management Associates, Inc. EC07

DATE	NO.	DESCRIPTION
12/31/25	A	ISSUED FOR BID
1/15/2026	B	ISSUED FOR PERMITTING

REVISION

EMI ENGINEERING MANAGEMENT
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Civil and Environmental Engineers
303 Swanson Drive, Lawrenceville, GA 30043
phone 770-962-1387 fax # 770-962-8010
www.eminc.biz

2026 GROUNDWATER EXPANSION AND DISTRIBUTION STORAGE FOR THE TOWN OF BRASELTON, GA

EROSION CONTROLS NOTES AND DETAILS

SHEET TITLE

WSH	RSS	GB
DESIGN BY	DRAWN BY	CHECKED BY

GEORGIA REGISTERED PROFESSIONAL ENGINEER NO. PE051941 1/15/2026 WILEY SPEIR HELM

STAMP

1/15/2026
DATE

18021
JOB NUMBER

EC-A

SHEET

PATH & FILE: Z:\PROJECTS\18\18021-Braselton-Groundwater Investigation-2018\Design Stage\18021_Braselton GroundWater EC

NOTICE OF INTENT SUBMITTAL

NOIs are to be submitted to EPD using the electronic submittal service provided by EPD and a copy to the Local Issuing Authority in jurisdictions authorized to issue a Land Disturbance Activity permit for the permittee's construction site pursuant to O.C.G.A. 12-7-1, et seq. The permittee shall retain a copy of the proof of submittal at the construction site or the proof of submittal shall be readily available at a designated alternative location from commencement of construction until such time as a Notice of Termination (NOT) is submitted in accordance with Part VI.

INSPECTIONS AND RECORD KEEPING

a. PERMITTEE REQUIREMENTS

(1). Each day when any type of construction activity has taken place at a primary permittee's site, certified personnel provided by the primary permittee shall inspect: (a) all areas at the primary permittee's site where petroleum products are stored, used, or handled for spills and leaks from vehicles and equipment and (b) all locations at the primary permittee's site where vehicles enter or exit the site for evidence of off-site sediment tracking. These inspections must be conducted until a Notice of Termination is submitted.

(2). Measure and record rainfall within disturbed areas of the site that have not met final stabilization once every 24 hours except any non-working Saturday, non-working Sunday and non-working Federal holiday. The data collected for the purpose of compliance with this permit shall be representative of the monitored activity. Measurement of rainfall may be suspended if all areas of the site have undergone final stabilization or established a crop of annual vegetation and a seeding of target perennials appropriate for the region.

(3). Certified personnel (provided by the Primary Permittee) shall inspect the following at least once every fourteen (14) calendar days: (a) disturbed areas of the Primary Permittee's construction site; (b) areas used by the Primary Permittee for storage of materials that are exposed to precipitation; and (c) structural control measures. Erosion and sediment control measures identified in the Plan applicable to the Primary Permittee's site shall be observed to ensure they are operating correctly. Certified personnel shall also conduct inspections within 24 hours of the end of a storm that is 0.5 inches rainfall or greater (unless the storm ends after 5:00 PM on any Friday or on any non-working Saturday, non-working Sunday or any non-working Federal holiday in which case the inspection shall be completed by the end of the next business day and/or working day, whichever occurs first). Post-rain inspections will reset the 14-day inspection frequency requirement. Where discharge locations or points are accessible, they shall be inspected to ascertain whether erosion control measures are effective in preventing significant impacts to receiving water(s). For areas of a site that have undergone final stabilization or established a crop on annual vegetation and a seeding of target perennials appropriate for the region the permittee must comply with Part IV.D.4.a.(4). These inspections must be conducted until a Notice of Termination is submitted.

(4). Certified personnel (provided by the primary permittee) shall inspect at least once per month during the term of this permit (i.e., until a Notice of Termination is submitted to EPD) the areas of the site that have undergone final stabilization or established a crop of annual vegetation and a seeding of target perennials appropriate for the region. These areas shall be inspected for evidence of, or the potential for, pollutants entering the drainage system and the receiving water(s). Erosion and sediment control measures identified in the Plan shall be observed to ensure that they are operating correctly. Where discharge locations or points are accessible, they shall be inspected to ascertain whether erosion control measures are effective in preventing significant impacts to receiving water(s).

(5). Based on the results of each inspection, the site description and the pollution prevention and control measures identified in the Erosion, Sedimentation and Pollution Control Plan, the Plan shall be revised as appropriate not later than seven (7) calendar days following each inspection. Implementation of such changes shall be made as soon as practical but in no case later than seven (7) calendar days following each inspection.

(6). A report of each inspection that includes the name(s) of certified personnel making each inspection, the date(s) of each inspection, construction phase (i.e., initial, intermediate or final), major observations relating to the implementation of the Erosion, Sedimentation and Pollution Control Plan, and actions taken in accordance with Part IV.D.4.a.(5). of the permit shall be made and retained at the site or be readily available at a designated alternate location until the entire site or that portion of a construction site that has been phased has undergone final stabilization and a Notice of Termination is submitted to EPD. Such reports shall be readily available by end of the second business day and/or working day and shall identify all incidents of best management practices that have not been properly installed and/or maintained as described in the Plan. Where the report does not identify any incidents, the inspection report shall contain a statement that the best

SAMPLING REQUIREMENTS

A. Sampling shall be performed at the locations indicated on the USGS topographic map, see sheet ECC of the construction plans. See Sheets EC1-1 – EC5-3 for detailed sample locations.

B. Analytical methods used to collect and analyze the samples and quality control/quality assurance procedures shall be in accordance with methodology and test procedures established by 40 CFR Part 136, the guidance document titled "NPDES Storm Water Sampling Guidance Document, EPA 833-B-92-001" and any other guidance documents that may be prepared by EPD.

C. There is one (1) receiving waters located along the route of this project (see USGS Topographic Map, sheet ECC of the construction plans for locations of receiving water and sampling sites). The receiving waters includes one (1) unnamed tributary of Mulberry River.

State and Receiving Water 1: Unnamed tributary of Mulberry River

Storm water runoff from areas of construction within the watershed of this tributary is conveyed toward the unnamed tributary of Mulberry River as sheet flow and in roadside ditches. This unnamed tributary is located in close proximity to the project site. Sampling Points A1 & A2 will be located on the unnamed tributary of Mulberry River at the upstream and downstream side of the project respectively, approximately Stations 47+75, (sheet EC-3-. The difference in NTU value (obtained from GAR 100002 Appendix B) for these sampling points is not to exceed 25. Storm water runoff from areas of construction that is not collected in roadside ditches leaves the site as sheet flow.

SAMPLE TYPE

A. All sampling shall be collect by "grab samples" and the analysis of these samples must be conducted in accordance with methodology and test procedures established by 40 CFR Part 136; the guidance document titled "NPDES Storm Water Sampling Guidance Document, EPA 833-B-92-001" and guidance documents that may be prepared by the EPD.

B. Sample containers shall be labeled prior to collecting the samples.

C. Samples shall be well mixed before transferring to a secondary container.

D. Large mouth, well cleaned and rinsed glass or plastic jars shall be used for collecting samples. The jars shall be cleaned thoroughly to avoid contamination.

E. Manual, automatic or rising stage sampling may be utilized. Samples shall be analyzed immediately, but in no case later than 48 hours after collection. However, samples from automatic samplers must be collected no later than the next business day after their accumulation, unless flow through automated analysis is utilized. If Automatic sampling is utilized and the automatic sampler is not activated during the qualifying event, the contractor must utilize manual sampling or rising stage sampling during the next qualifying event. Dilution of samples is not required. Samples may be analyzed directly with a properly calibrated turbidimeter. Samples are not required to be cooled.

F. Sampling and analysis of the receiving water(s) or outfalls beyond the minimum frequency required must be reported to EPD.

SAMPLE POINTS

A. The upstream sample of the receiving water(s) must be taken immediately upstream of the confluence of the first point of storm water discharge from the project site. If necessary, several upstream samples from across the receiving water may need to be taken and the arithmetic average of the turbidity of these samples used for the upstream turbidity value.

B. The downstream sample of the receiving water(s) must be taken immediately downstream of the last point of storm water discharge from the project site. If necessary, several downstream samples from across the receiving water may need to be taken and the arithmetic average of the turbidity of these samples used for the downstream turbidity value.

C. Ideally, samples should be taken from the horizontal and vertical center of the receiving water(s) or the storm water outfall channel(s).

D. Avoid stirring the bottom of the sediments in the receiving water(s) and or outfall storm water channel.

E. Hold sampling container so that opening faces upstream.

F. Keep samples free from floating debris.

G. Sampling must be done in accordance with all requirements of EPD Permit No. GAR100002 and in such a way as to accurately reflect whether storm water runoff from the site is in compliance with EPD Permit No. GAR100002.

SAMPLING FREQUENCY

(1). The Primary permittee must sample in accordance with the plan at least once for each rainfall event described below. For a qualifying event, the permittee shall sample at the beginning of any storm water discharge to monitor receiving water and/or from a monitored outfall location within forty-five (45) minutes or as soon as possible.

(2). However, where manual and automatic sampling are impossible (as defined in this permit), or are beyond the permittee's control, the permittee shall take samples as soon as possible, but in no case more than twelve (12) hours after the beginning of the storm water discharge.

(3). Sampling by the permittee shall occur for the following qualifying events.

a) For each area of the site that discharges to a receiving water, or from an outfall, the first rain event that reaches or exceed 0.5 inch with a storm water discharge that occurs during normal business hours* (Monday thru Friday, 8:00 AM to 5:00 PM and Saturday 8:00 AM to 5:00 PM when construction activity is being conducted by the Contractor) after all clearing and grubbing operations have been completed, but prior to completion of mass grading operations, in the drainage area of the location selected as the representative sampling location;

b) In addition to (a) above, for each area of the site that discharges to a receiving water or from an outfall, the first rain event that reaches or exceeds 0.5 inch with a storm water discharge that occurs during normal business hours* either 90 days after the first sampling event or after all mass grading operations have been completed, but prior to submittal of a NOT, in the drainage area of the location selected as the representative sampling location, whichever comes first;

c) At the time of sampling performed pursuant to (a) and (b) above, If BMPs in any area of the site that discharges to a receiving water or from an outfall are not properly designed, installed and maintained, corrective action shall be defined and implemented within two (2) business days, and turbidity samples shall be taken from discharges from that area of the site for each subsequent rain event that exceeds 0.5 inch during normal business hours* until the selected turbidity standard is attained, or until post-rain event inspections determine that BMPs are properly designed, installed and maintained;

d) Where sampling pursuant to (a), (b), or (c) above is required but not possible (or not required because there was no discharge), the permittee, in accordance with part IV.D.4.a.(6), must include a written justification in the inspection report of why sampling was not performed. Providing this justification does not relieve the permittee of any subsequent sampling obligations under (a), (b) or (c) above: and

e) Existing construction activities, i.e., those that oar occurring on or before the effective date of this permit, that have met the sampling required by (a) above shall sample in accordance with (b). those existing construction activities that have met the sampling required by (b) above shall not be required to conduct additional sampling other than as required by (c) above.

*Note that the Contractor (or certified personnel provided by the Contractor) may choose to meet the requirements of 1. and 2. above by collecting turbidity samples from any rain event that reaches or exceeds 0.5 inch and allows for monitoring at any time of the day or week.

REPORTING

1. The applicable permittees are required to submit the sampling results to the EPD by the fifteenth day of the month following the reporting period. Reporting periods are months during which samples are taken in accordance with this permit. Sampling results shall be in a clearly legible format. Upon written notification, EPD may require the applicable permittee to submit the sampling results on a more frequent basis. Sampling and analysis of any stormwater discharge(s) or the receiving water(s) beyond the minimum frequency stated in this permit must be reported in a similar manner to the EPD. Sampling reports must be submitted to EPD using the electronic submittal service provided by EPD. Sampling reports must be submitted to EPD until such time as a NOT is submitted in accordance with Part VI.

2. All sampling reports shall include the following information:

a. The rainfall amount, date, exact place and time of sampling or measurements;
b. The name(s) of the certified personnel who performed the sampling and measurements;
c. The date(s) analyses were performed;
d. The time(s) analyses were initiated;
e. The name(s) of the certified personnel who performed the analyses;
f. References and written procedures, when available, for the analytical techniques or methods used;
g. The results of such analyses, including the bench sheets, instrument readouts, computer disks or tapes, etc., used to determine these results;
h. Results which exceed 1000 NTU shall be reported as "exceeds 1000 NTU;" and
i. Certification statement that sampling was conducted as per the Plan.

3. All written correspondence required by this permit shall be submitted by return receipt certified mail (or similar service) to the appropriate District Office of the EPD or delivery receipt email to the appropriate EPD District Office resource mailbox according to the schedule in Appendix A of this permit. The permittee shall retain a copy of the proof of submittal at the construction site or the proof of submittal shall be readily available at a designated location from commencement of construction until such time as a NOT is submitted in accordance with Part VI.

Retention of Records:

1. The primary permittee shall retain the following records at the construction site or the records shall be readily available at a designated alternate location from commencement of construction until such time as a NOT is submitted in accordance with Part VI:

a. A copy of all Notices of Intent submitted to EPD;
b. A copy of the Erosion, Sedimentation and Pollution Control Plan required by this permit;
c. The design professional's report of the results of the inspection conducted in accordance with Part IV.A.5. of this permit;
d. A copy of all sampling information, results, and reports required by this permit;
e. A copy of all inspection reports generated in accordance with Part IV.D.4.a. of this permit;
f. A copy of all violation summaries and violation summary reports generated in accordance with Part III.D.2. of this permit; and
g. Daily rainfall information collected in accordance with Part IV.D.4.a.(2). of this permit.

2. Copies of all Notices of Intent, Notices of Termination, inspection reports, sampling reports (including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation), or other reports requested by the EPD, Erosion, Sedimentation and Pollution Control Plans, records of all data used to complete the Notice of Intent to be covered by this permit and all other records required by this permit shall be retained by the permittee who either produced or used it for a period of at least three years from the date that the NOT is submitted in accordance with Part VI of this permit. These records must be maintained at the permittee's primary place of business or at a designated alternative location once the construction activity has ceased at the permitted site. This period may be extended by request of the EPD at any time upon written notification to the permittee.

CERTIFICATION - ES&PC DESIGN PROFESSIONAL

"I certify that the permittee's Erosion, Sedimentation and Pollution Control Plan provides for an appropriate and comprehensive system of best management practices required by the Georgia Water Quality Control Act and the document "Manual for Erosion and Sediment Control in Georgia" (Manual) published by the Georgia Soil and Water Conservation Commission as of January 1 of the year in which the land-disturbing activity was permitted. The plan provides for the sampling of the receiving water(s) or the sampling of the storm water outfalls. The designed system of best management practices and sampling methods is expected to meet the requirements contained in the General NPDES Permit No. GAR100002."

"I certify under penalty of law that this plan was prepared after a site visit to the locations described herein by myself and/or my authorized agent, under my direct supervision."

"I certify that the permittee's Erosion, Sedimentation and Pollution Control Plan provides for the monitoring of: (a) all perennial and intermittent streams and other water bodies shown on the USGS topographic map and all other field verified perennial and intermittent streams and other water bodies, or (b) where any such specific identified perennial or intermittent stream and other water body is not proposed to be sampled, I have determined in my professional judgment, utilizing the factors required in the General NPDES Permit No. GAR 100002, that the increase in the turbidity of each specific identified sampled receiving water will be representative of the increase in the turbidity of a specific identified un-sampled receiving water."

"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 gather and evaluate 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."

Wiley Helm (signature) — 1/15/2026

WILEY SPEIR HELM — **DATE**
P.E. - LICENSE NO. 051941
GSWCC LEVEL II CERTIFICATION NO. 107814

IMPAIRED STREAM REQUIREMENTS, TMDL PLANS, AND ALTERNATIVE BMP NOTES:

1. THIS PROJECT IS LOCATED WITHIN ONE LINEAR MILE AND WITHIN THE SAME WATERSHED AS MULBERRY RIVER. MULBERRY RIVER IS NON-SUPPORTING FOR ITS DESIGNATED USE AS SHOWN ON GEORGIA'S 2020 "305(b)/303(d) LIST DOCUMENTS" FROM MULBERRY CREEK TO LITTLE MULBERRY RIVER. THE CRITERION VIOLATED IS "FC, BIO M", THE POTENTIAL CAUSE IS "UR" AND THE CATEGORY IS "4a." UNDER PART III.C.2. OF THE CURRENT GENERAL PERMIT NUMBER GAR100002 BY THE GEORGIA ENVIRONMENTAL PROTECTION DIVISION, THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN FOR THIS PROJECT MUST INCLUDE AT LEAST FOUR OF THE LISTED BEST MANAGEMENT PRACTICES (PART III.C.2.(a) - (t)) FOR THOSE AREAS OF THE SITE WHICH DISCHARGE INTO OR WITHIN ONE LINEAR MILE UPSTREAM AND WITHIN THE SAME WATERSHED AS MULBERRY RIVER. THE FOLLOWING FOUR BEST MANAGEMENT PRACTICES ARE INCLUDED IN THIS PROJECT IN ORDER TO SATISFY THIS REQUIREMENT:

h. REDUCE THE TOTAL PLANNED SITE DISTURBANCE TO LESS THAN 50% IMPERVIOUS SURFACES (EXCLUDING ANY STATE-MANDATED BUFFER AREAS FROM SUCH CALCULATIONS).

IMPERVIOUS SURFACES ON THIS PROJECT INCLUDE THE INSTALLATION OF AN ACCESS ROAD, TWO WELL HOUSES, STORAGE TANK, AND TREATMENT BUILDING FOR A TOTAL OF 1.0 ACRES, WHICH IS LESS THAN 50% OF THE 4.48 TOTAL DISTURBED ACREAGE.

m. USE APPROPRIATE EROSION CONTROL SLOPE STABILIZATION INSTEAD OF CONCRETE IN ALL CONSTRUCTION STORM WATER DITCHES AND STORM DRAINAGES DESIGNED FOR A 25-YEAR, 24-HOUR RAINFALL EVENT.

RIP RAP IS USED ON ALL STORM WATER DITCHES DESIGNED FOR THE 25-YEAR STORM EVENT.

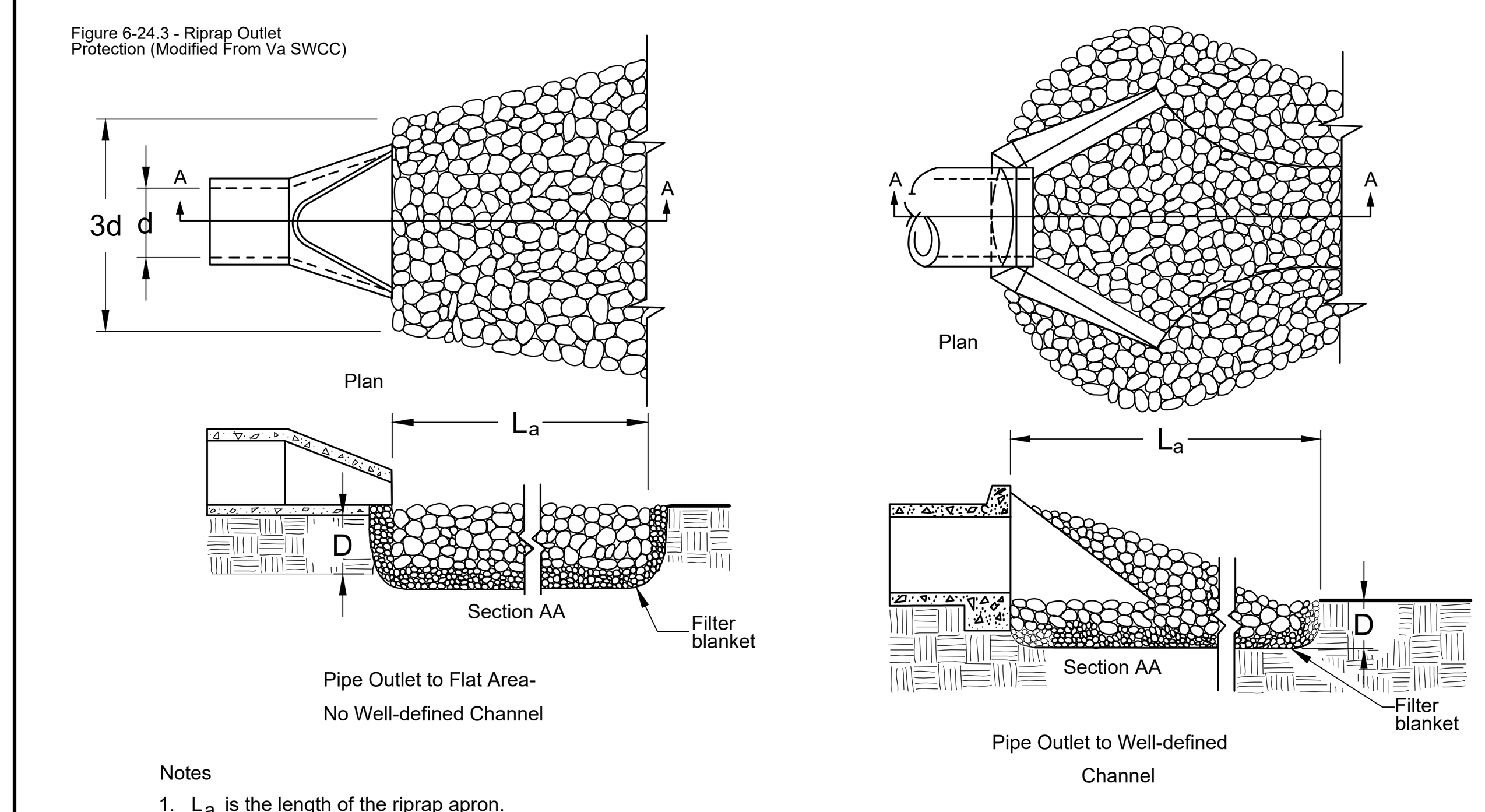
q. CERTIFIED PERSONNEL FOR PRIMARY PERMITTEES SHALL CONDUCT INSPECTIONS AT LEAST TWICE EVERY SEVEN (7) CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF THE STORM THAT IS 0.5 INCHES RAINFALL OR GREATER IN ACCORDANCE WITH SECTION IV.D.4.A.(3)(A) – (C); SECONDARY PERMITTEES, SECTION IV.D.4.B.(3) (A) – (C); AND TERTIARY PERMITTEES SECTION IV.D.4.C.(3)(A) – (C) *

t. CONDUCT INSPECTIONS DURING THE INTERMEDIATE GRADING AND DRAINAGE BMP PHASE AND DURING THE FINAL BMP PHASE OF THE PROJECT BY THE DESIGN PROFESSIONAL WHO PREPARED THE PLAN IN ACCORDANCE WITH SECTION IV.A.5 OF THE PERMIT.

THE PRIMARY PERMITTEE MUST RETAIN THE DESIGN PROFESSIONAL WHO PREPARED THE PLAN TO CONDUCT INSPECTIONS DURING THE INTERMEDIATE GRADING AND DRAINAGE BMP PHASE AND DURING THE FINAL BMP PHASE.

2. SINCE FINALIZED TMDL PLAN FOR SEDIMENT IS NOT SITE SPECIFIC, COMPLIANCE WITH THE NPDES PERMIT SHOULD SATISFY LOAD REDUCTION REQUIREMENTS.

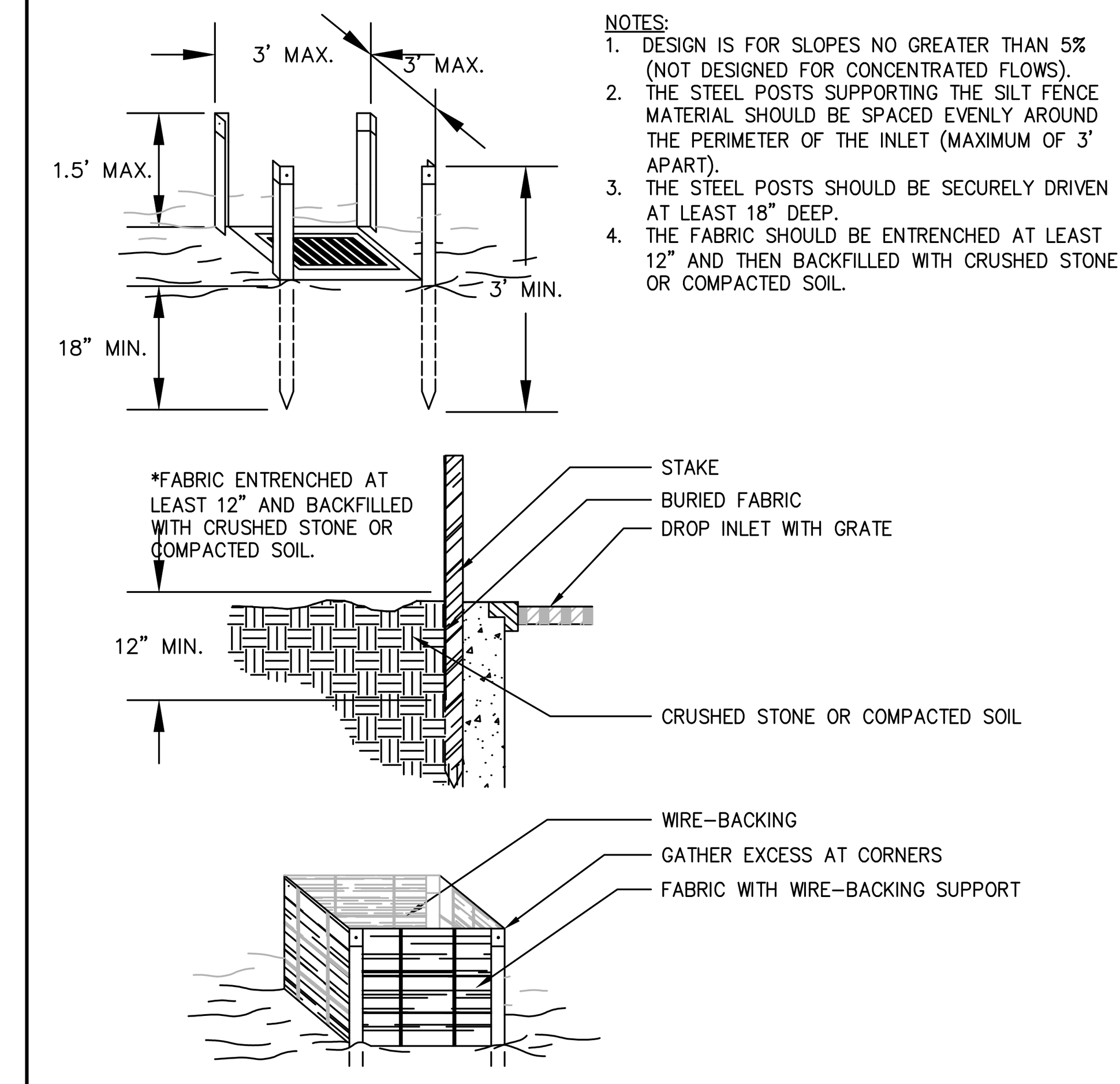
3. ALTERNATIVE BMPS WILL NOT BE INSTALLED DURING THIS PROJECT.



Notes
1. L_a is the length of the riprap apron.
2. D = 1.5 times the maximum stone diameter but not less than 6".
3. In a well-defined channel extend the apron up the channel banks to an elevation of 6" above the maximum tailwater depth of to the top of the bank, whichever is less.
4. A filter blanket or filter fabric should be installed between the riprap and soil foundation.

St

STORM DRAIN OUTLET PROTECTION — Engineering Management Associates, Inc.



NOTES:
1. DESIGN IS FOR SLOPES NO GREATER THAN 5% (NOT DESIGNED FOR CONCENTRATED FLOWS).
2. THE STEEL POSTS SUPPORTING THE SILT FENCE MATERIAL SHOULD BE SPACED EVENLY AROUND THE PERIMETER OF THE INLET (MAXIMUM OF 3' APART).
3. THE STEEL POSTS SHOULD BE SECURELY DRIVEN AT LEAST 18" DEEP.
4. THE FABRIC SHOULD BE ENTRENCHED AT LEAST 12" AND THEN BACKFILLED WITH CRUSHED STONE OR COMPACTED SOIL.

Sd2-F

FABRIC FRAME INLET PROTECTION — Engineering Management Associates, Inc.

RIPRAP APRON SUMMARY										
UPSTREAM PIPE ID	PIPE DIAMETER (d)	FLOW RATE (cfs)	VELOCITY (fps)	TAILWATER CONDITION	APRON LENGTH (La)	WIDTH UPSTREAM (W1)	WIDTH DOWNSTREAM (W=Do+La)	RIP RAP SIZE (d50)	RIP RAP DEPTH (in)	RIP RAP TYPE
ST 4	24"	14.33	1.89	MAX.	10'	6'	12'	3"	4.5"	DOT TYPE 3

GEORGIA 811
Utilities Protection Center, Inc.
Know what's below.
Call before you dig.

PLANS WILL BE RELEASED FOR CONSTRUCTION AFTER APPROVALS ARE RECEIVED FROM ALL AGENCIES.

DATE	NO.	DESCRIPTION
12/31/25	A	ISSUED FOR BID
1/15/2026	B	ISSUED FOR PERMITTING

REVISION

EMI ENGINEERING MANAGEMENT
Experience ■ Trust ■ Solutions
Civil and Environmental Engineers
303 Swanson Drive, Lawrenceville, GA 30043
phone 770-962-1387 fax # 770-962-8010
www.eminc.biz

2026 GROUNDWATER EXPANSION AND DISTRIBUTION STORAGE
FOR THE
TOWN OF BRASELTON, GA

EROSION CONTROLS NOTES AND DETAILS

SHEET TITLE

WSH — DESIGN BY
RSS — DRAWN BY
GB — CHECKED BY

GEORGIA REGISTERED PROFESSIONAL ENGINEER NO. PE051941 — WILEY SPEIR HELM — 1/15/2026

STAMP

1/15/2026
DATE

18021
JOB NUMBER

EC-B

SHEET

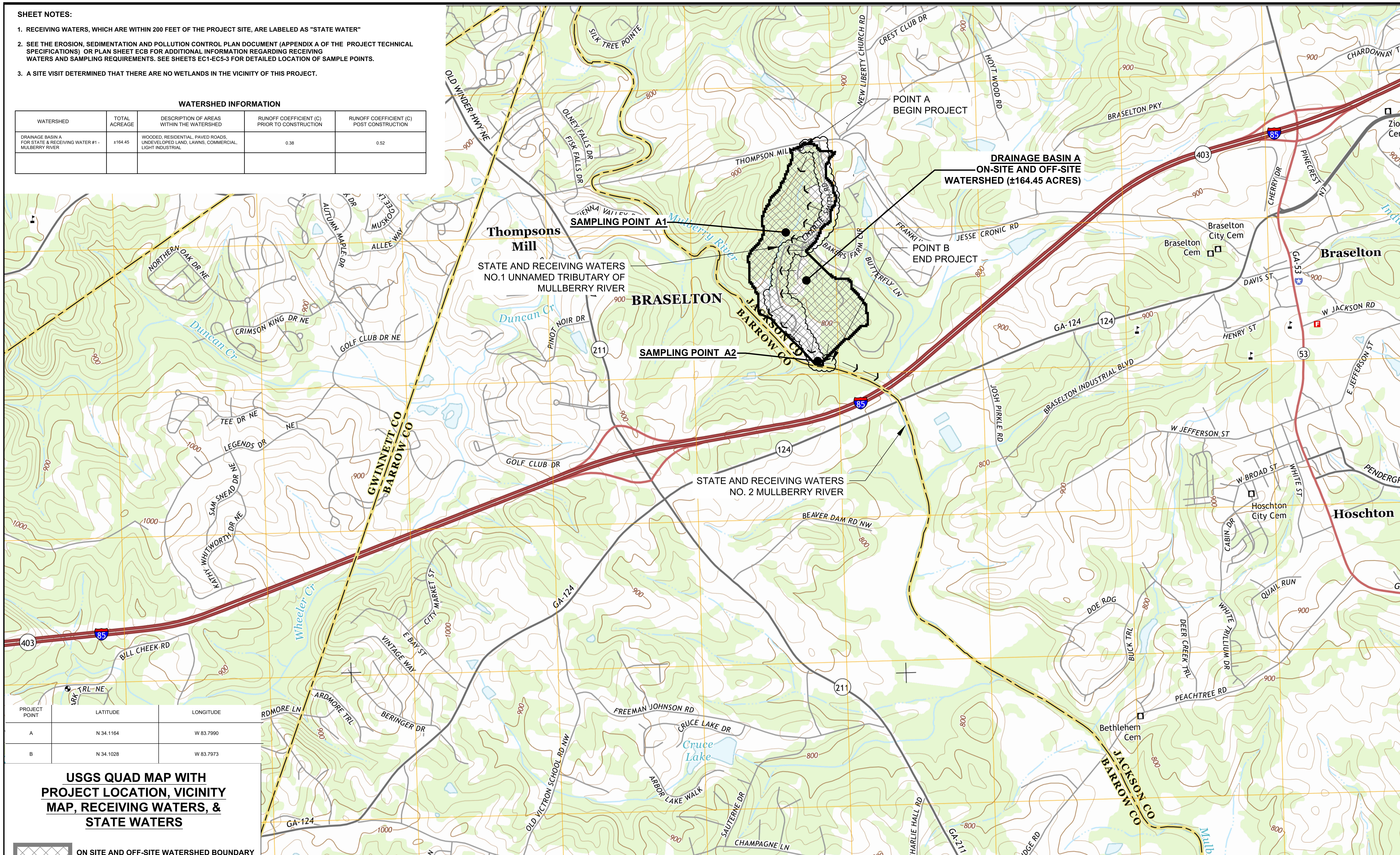
PATH & FILE: Z:\PROJECTS\18\18021-Braselton-Groundwater Investigation-2018\Design Stage\18021_Braselton GroundWater EC

SHEET NOTES:

1. RECEIVING WATERS, WHICH ARE WITHIN 200 FEET OF THE PROJECT SITE, ARE LABELED AS "STATE WATER"
2. SEE THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN DOCUMENT (APPENDIX A OF THE PROJECT TECHNICAL SPECIFICATIONS) OR PLAN SHEET ECB FOR ADDITIONAL INFORMATION REGARDING RECEIVING WATERS AND SAMPLING REQUIREMENTS. SEE SHEETS EC1-EC5-3 FOR DETAILED LOCATION OF SAMPLE POINTS.
3. A SITE VISIT DETERMINED THAT THERE ARE NO WETLANDS IN THE VICINITY OF THIS PROJECT.

WATERSHED INFORMATION

WATERSHED	TOTAL ACREAGE	DESCRIPTION OF AREAS WITHIN THE WATERSHED	RUNOFF COEFFICIENT (C) PRIOR TO CONSTRUCTION	RUNOFF COEFFICIENT (C) POST CONSTRUCTION
DRAINAGE BASIN A FOR STATE & RECEIVING WATER #1 - MULBERRY RIVER	±164.45	WOODED, RESIDENTIAL, PAVED ROADS, UNDEVELOPED LAND, LAWNS, COMMERCIAL, LIGHT INDUSTRIAL	0.38	0.52



PROJECT POINT	LATITUDE	LONGITUDE
A	N 34.1164	W 83.7990
B	N 34.1028	W 83.7973

USGS QUAD MAP WITH PROJECT LOCATION, VICINITY MAP, RECEIVING WATERS, & STATE WATERS

ON SITE AND OFF-SITE WATERSHED BOUNDARY

ON-SITE DRAINAGE FLOW

GRAPHIC SCALE

0 500 1000 2000 3000

(IN FEET)
1 inch = 1000 ft.

NORTH

PROJECT SITE DRAINAGE BASIN TOTAL AREA (±164.45 ACRES)

PLANS WILL BE RELEASED FOR CONSTRUCTION AFTER APPROVALS ARE RECEIVED FROM ALL AGENCIES.

GEORGIA811
Utilities Protection Center, Inc.
Know what's below. Call before you dig.

CERTIFICATION - ES&PC DESIGN PROFESSIONAL

WILEY SPEIR HELM
P.E. - LICENSE NO. 051941
GSWCC LEVEL II CERTIFICATION NO. 107814

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GEORGIA REGISTERED NO. PE051941 PROFESSIONAL 1/15/2026 ENGINEER WILEY SPEIR HELM

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DATE

18021
JOB NUMBER

EC-C

SHEET

PATH & FILE: Z:\PROJECTS\18\18021-Braselton-Groundwater Investigation-2018\Design Stage\18021_Braselton GroundWater EC