# ESPC NOTES

*(land disturbance equal to or exceeding one acre)*

"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 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, PROVIDES FOR THE SAMPLING OF THE RECEIVING WATER(S) OR THE SAMPLING OF THE STORM WATER OUTFALLS AND THAT THE DESIGNED SYSTEM OF BEST MANAGEMENT PRACTICES AND SAMPLING METHODS IS EXPECTED TO MEET THE REQUIREMENTS CONTAINED IN THE GENERAL NPDES PERMIT NO. GAR 100001."

SIGNATURE — MAY 22, 2024 — DATE

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

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 SEDIMENTATION CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.

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.

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

SCS CURVE NUMBERS: THE PROJECT'S PRE-CONSTRUCTION AND POST-CONSTRUCTION SCS CURVE NUMBERS ARE ESTIMATED TO BE 74 AND 85, RESPECTIVELY *(excludes offsite drainage areas)*.

SEDIMENT STORAGE VOLUME MUST BE IN PLACE PRIOR TO AND DURING ALL LAND DISTURBANCE ACTIVITIES UNTIL FINAL STABILIZATION OF THE SITE HAS BEEN ACHIEVED.

THE DESIGN PROFESSIONAL WHO PREPARED THE ES&PC PLAN IS TO INSPECT THE INSTALLATION OF THE INITIAL SEDIMENT STORAGE REQUIREMENTS AND PERIMETER CONTROL BMPs WITHIN SEVEN DAYS AFTER INSTALLATION.

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.

WASTE MATERIALS SHALL NOT BE DISCHARGED TO WATERS OF THE STATE, EXCEPT AS AUTHORIZED BY A SECTION 404 PERMIT.

PRIMARY PERMITTEE:

WARREN ASSOCIATES, INC.
2760 ROFF AVENUE
MACON, GEORGIA 31204
ceasterwood@warrenassociatesinc.com
478.746.7306

24-HOUR CONTACT:

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TOTAL AND DISTURBED ACREAGES:

SITE: TOTAL PROJECT/PARCEL ACREAGE = 9.60 acres
SITE: TOTAL DISTURBED ACREAGE = ±9.15 acres

APPENDIX B OUTFALL NTU RATIONALE:

- NTU LIMIT = 75
- CONSTRUCTION SITE SIZE = ±9.15 acres (site)
- SURFACE WATER DRAINAGE AREA = <4.99 square miles
- RECEIVING WATER TYPE: WARM WATER FISHERY

CONSTRUCTION EXITS:

TEMPORARY CONSTRUCTION EXIT: 32.865737° / -83.575594°

EXISTING CONDITIONS:

- THE PROJECT SITE PREVIOUSLY SUPPORTED A SCHOOL DEVELOPMENT. RECENTLY, THE PROPERTY'S ABOVE GROUND STRUCTURES WERE DEMOLISHED AND REMOVED FROM THE PROPERTY. PORTIONS OF THE FORMER DEVELOPMENT'S ASPHALT PAVEMENT REMAIN IN PLACE. THE REMAINDER OF THE PROJECT SITE HAS A MODERATE COVER OF PERMANENT VEGETATION *(i.e. weeds, brush and moderate grass cover)*.
- THE PROJECT SITE IS FLANKED BY RESIDENTIAL DEVELOPMENTS ALONG THE NORTHERN AND EASTERN PROPERTY BOUNDARIES *(mix of 1/2 and 1/3-acre residential lots)*. A CHURCH DEVELOPMENT ABUTS THE WESTERN PROPERTY BOUNDARY AND SHURLING DRIVE ABUTS THE SOUTHERN PROPERTY BOUNDARY.
- ONE WET-WEATHER DRAINAGE DITCH FLANKS THE PROJECT SITE'S EASTERN PROPERTY BOUNDARY *(drains in a north to south direction)*. THE SUBJECT DRAINAGE DITCH IS CONSIDERED A STATE WATER.
- THE PROJECT AREA HAS ONE HYDROLOGIC SOIL GROUP: HSG C.

PROJECT IMPROVEMENTS:

- A NEW ±31,000 SQUARE FOOT SINGLE STORY STRUCTURE WILL BE CONSTRUCTED ON THE PROJECT SITE. THE NEW STRUCTURE WILL SERVE AS A HEAD START FACILITY FOR YOUNG CHILDREN.
- TWO STUDENT VEHICLE DROPOFFS WILL BE PROVIDED *(one for passenger cars and one for school buses)*. NEW ASSOCIATED VEHICLE PARKING WILL BE PROVIDED *(asphalt parking lot)*.
- A NEW ASPHALT PAVED DECELERATION LANE WILL BE INSTALLED ALONG SHURLING DRIVE *(GDOT jurisdiction)*.
- ±17-PERCENT OF STORMWATER FROM CONTRIBUTING OFFSITE BASINS WILL BE COLLECTED AND ROUTED AROUND THE PROJECT SITE. THE REMAINING 83-PERCENT OF CONTRIBUTING OFFSITE STORMWATER WILL BE COLLECTED AND ROUTED TO THE EXTENDED DETENTION AND WATER QUALITY TREATMENT SYSTEM. REDUCING/PREVENTING THE OFFSITE STORMWATER DRAINAGE FROM ENTERING THE PROJECT SITE WILL ASSIST IN REDUCING THE AMOUNT OF PROJECT-RELATED SEDIMENT LOSS.
- ±88-PERCENT OF THE DEVELOPED PROJECT SITE'S IMPERVIOUS COVERS WILL BE ROUTED TO THE EXTENDED DETENTION AND WATER QUALITY TREATMENT SYSTEM.

POST-CONSTRUCTION POLLUTANT CONTROL:

- THE MAJORITY OF STORMWATER RUNOFF FROM THE NEW DEVELOPMENT'S IMPERVIOUS SURFACES WILL BE ROUTED TO AN EXTENDED DETENTION AND WATER QUALITY TREATMENT SYSTEM *(permanent micropool and sediment forebay components)*. THE EXTENDED DETENTION SYSTEM WILL LIMIT POST-DEVELOPED PEAK FLOW DISCHARGES (at the project outfalls) TO BE EQUAL TO OR LESS THAN PRE-DEVELOPED CONDITIONS.
- THE REMAINING STORMWATER RUNOFF THAT BYPASSES THE EXTENDED DETENTION AND WATER QUALITY TREATMENT SYSTEM WILL BE ROUTED TO EITHER POI OUTFALL #1 OR #2.
- THE POST-DEVELOPED STORMWATER CONVEYANCE CHANNELS ARE LINED BASED ON THE EXPECTED PEAK VELOCITIES WITHIN THE CHANNEL. IF VELOCITIES ARE EXPECTED TO EXCEED 5 FPS, THE CHANNEL IS LINED WITH RIPRAP.
- THE POST-DEVELOPED WATER QUALITY TREATMENT SYSTEM WILL PROVIDE TREATMENT FOR ±88-PERCENT OF THE NEW DEVELOPMENT'S IMPERVIOUS COVERS, AND IT WILL ALSO PROVIDE TREATMENT FOR ±0.59 ACRES OF CONTRIBUTING OFFSITE IMPERVIOUS COVERS *(±1.97 acres of upgradient 1/3-acre residential lots - assumed to have 30% impervious cover)*.
- ALL POST-CONSTRUCTION WATER QUALITY TREATMENT IS PROVIDED VIA A MICROPOOL EXTENDED DETENTION POND SYSTEM AND/OR RUNOFF ACROSS A VEGETATED CHANNEL.

EXPECTED POLLUTION SOURCES:

- EXPECTED CONSTRUCTION-RELATED POLLUTION SOURCES *(during the construction period)* INCLUDE: BUILDING MATERIALS/EQUIPMENT, ESCAPED SEDIMENT AND PETROLEUM PRODUCTS, CONCRETE WASH WATER/EFFLUENT. REFER TO BUILDING MATERIAL DEMOLITION AND STORAGE REQUIREMENTS NOTED IN THESE CONSTRUCTION DRAWINGS.
- THE EROSION AND SEDIMENT CONTROL PLANS AND ASSOCIATED DETAILS PROVIDE GUIDANCE FOR INSTALLING BMPs TO HELP MANAGE/REDUCE THE EXPECTED POLLUTANTS.
- POST-CONSTRUCTION POLLUTANTS ARE EXPECTED TO BE SUSPENDED SOLIDS (grass clippings, sediment, rubber tire fragments etc.) AND TRACES OF PETROLEUM RESIDUE *(vehicle oil leaks, etc.)*. IT IS ANTICIPATED THAT THE POLLUTANTS WILL BE SIGNIFICANTLY REMOVED IN THE GRASSED SWALES AND WATER QUALITY TREATMENT BMPs.

BUFFER ENCROACHMENT:

THE NEW 24-INCH DISCHARGE CULVERT FROM THE EXTENDED DETENTION POND SYSTEM WILL ENTER THE STREAM BUFFER AND WILL CONNECT TO THE STREAM CHANNEL. BECAUSE IT IS FOR STORMWATER CONVEYANCE, THE ENCROACHMENT IS CONSIDERED A PERMISSIBLE INSTALLATION; NO GEORGIA EPD PERMIT IS REQUIRED.

## STABILIZATION SEQUENCING

STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN 14 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED.

## PHASE ONE ESPC NARRATIVE

1. INSTALL INITIAL PERIMETER BMPs (silt fence and construction exit).
2. CLEAR AREA AND INSTALL THE TEMPORARY SEDIMENT TRAP(S) AND RETROFITTED DETENTION POND.
3. OBTAIN DESIGN PROFESSIONAL'S APPROVAL FOR INITIAL BMP INSTALLATIONS.
4. PERFORM CLEARING/GRUBBING AND DEMOLITION ACTIVITIES FOR REMAINDER OF SITE.
5. INSTALL REMAINDER OF PERIMETER BMPs FOLLOWING PAVEMENT REMOVAL.
6. TEMPORARILY STABILIZE AREAS THAT WILL NOT BE DISTURBED FOR MORE THAN 14 CALENDAR DAYS.
7. PERMANENTLY STABILIZE AREAS THAT HAVE RECEIVED FINAL GRADING/IMPROVEMENTS.

THE PROVIDED LIST INCLUDES, BUT IS NOT LIMITED TO, CONTRACTOR-RESPONSIBLE TASKS REGARDING PHASE 1 SEDIMENT CONTROL. THE CONTRACTOR IS ULTIMATELY RESPONSIBLE FOR ACCEPTABLY CONTROLLING/MINIMIZING THE LOSS OF SEDIMENT FROM THE PROJECT SITE DURING THE SITE DEVELOPMENT'S ENTIRE CONSTRUCTION DURATION. BMPs (installation, placement, performance and maintenance) SHALL BE IN ACCORDANCE WITH THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA, AND GAR100001. ADDITIONAL BMP MEASURES MAY BE REQUIRED DURING THE COURSE OF THE CONSTRUCTION PROJECT.

## PHASE TWO ESPC NARRATIVE

1. INSTALL PERIMETER BMPs THAT DIFFER FROM PHASE 1 (additional/relocated sediment barriers, inlet sediment traps, concrete washout station, etc.).
2. MAINTAIN BMPs THAT REMAIN FROM PHASE 1.
3. REGULARLY CHECK FOR/CLEAN ACCUMULATED SEDIMENT FROM BEHIND BMPs.
4. PERFORM DAILY INSPECTIONS (if in scope of work).
5. PERFORM MASS GRADING OF SITE (and other site improvements).
6. TEMPORARILY STABILIZE AREAS THAT WILL NOT BE DISTURBED FOR MORE THAN 14 CALENDAR DAYS.
7. PERMANENTLY STABILIZE AREAS THAT HAVE RECEIVED FINAL GRADING/IMPROVEMENTS.

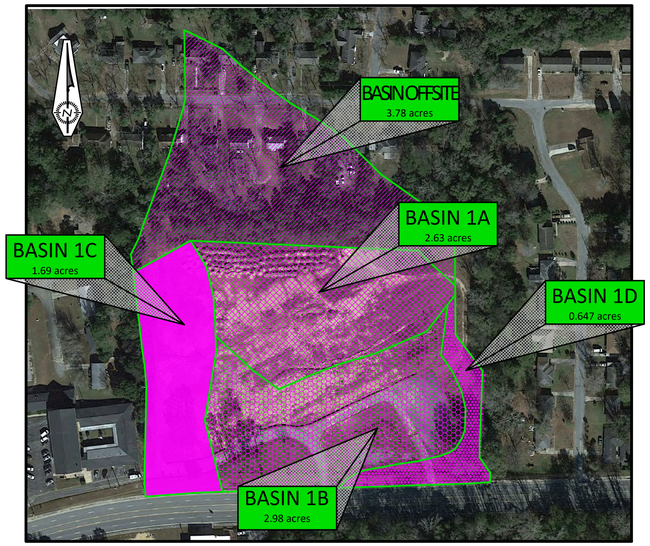
THE PROVIDED LIST INCLUDES, BUT IS NOT LIMITED TO, CONTRACTOR-RESPONSIBLE TASKS REGARDING PHASE 2 SEDIMENT CONTROL. THE CONTRACTOR IS ULTIMATELY RESPONSIBLE FOR ACCEPTABLY CONTROLLING/MINIMIZING THE LOSS OF SEDIMENT FROM THE PROJECT SITE DURING THE SITE DEVELOPMENT'S ENTIRE CONSTRUCTION DURATION. BMPs (installation, placement, performance and maintenance) SHALL BE IN ACCORDANCE WITH THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA, AND GAR100001. ADDITIONAL BMP MEASURES MAY BE REQUIRED DURING THE COURSE OF THE CONSTRUCTION PROJECT.

## PHASE THREE ESPC NARRATIVE

**PHASE 3 ESPC NARRATIVE**

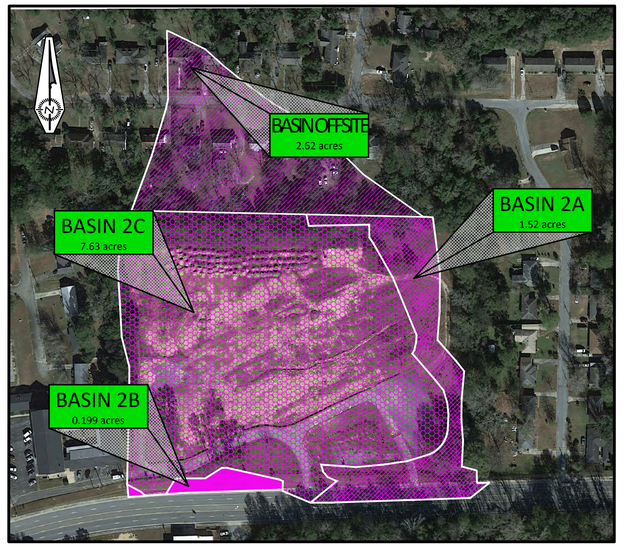
1. INSTALL PERIMETER BMPs THAT DIFFER FROM PHASE 2 (i.e. relocated sediment barriers, curb inlet protection, etc.).
2. MAINTAIN BMPs THAT REMAIN FROM PHASE 2.
3. REGULARLY CHECK FOR/CLEAN ACCUMULATED SEDIMENT FROM BEHIND OR WITHIN BMPs.
4. PERFORM DAILY INSPECTIONS (if in scope of work).
5. PERFORM FINE/FINAL GRADING OF SITE (and other site improvements).
6. TEMPORARILY STABILIZE AREAS THAT WILL NOT BE DISTURBED FOR MORE THAN 14 CALENDAR DAYS.
7. PERMANENTLY STABILIZE AREAS THAT HAVE RECEIVED FINAL GRADING/IMPROVEMENTS.
8. FOLLOWING PERMANENT STABILIZATION OF AN INDIVIDUAL DRAINAGE SUBBASIN, REMOVE TEMPORARY BMPs WITHIN THE SUBJECT SUBBASIN.

THE PROVIDED LIST INCLUDES, BUT IS NOT LIMITED TO, CONTRACTOR-RESPONSIBLE TASKS REGARDING PHASE 3 SEDIMENT CONTROL. THE CONTRACTOR IS ULTIMATELY RESPONSIBLE FOR ACCEPTABLY CONTROLLING/MINIMIZING THE LOSS OF SEDIMENT FROM THE PROJECT SITE DURING THE SITE DEVELOPMENT'S ENTIRE CONSTRUCTION DURATION. BMPs (installation, placement, performance and maintenance) SHALL BE IN ACCORDANCE WITH THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA, AND GAR100001. ADDITIONAL BMP MEASURES MAY BE REQUIRED DURING THE COURSE OF THE CONSTRUCTION PROJECT.



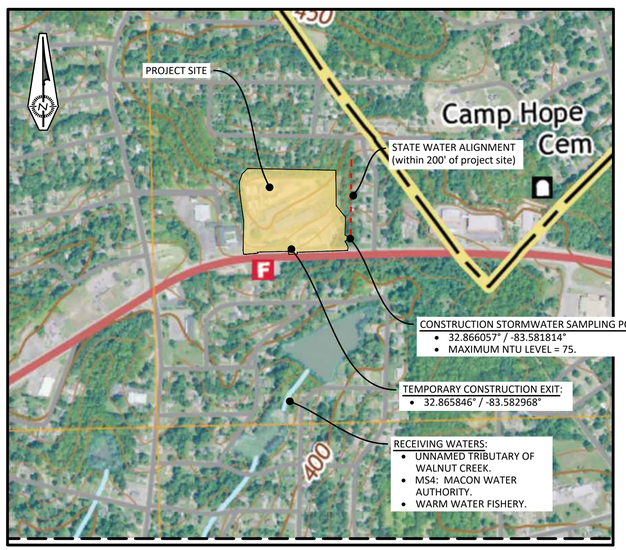

## ESPC DRAINAGE BASINS - Initial Phase

SCALE: 1" = 150'




## ESPC DRAINAGE BASINS - Intermediate Phase

SCALE: 1" = 150'




## ESPC RECEIVING WATERS

SCALE: 1" = 500'


bTbB inc. ARCHITECTS | PLANNERS
609 Cherry Street, Macon, GA 31201
478.742.1208 / www.btbinc.com



GEORGIA REGISTERED PROFESSIONAL ENGINEER MICHAEL R. REEVES — NOV 26 2024

PERMIT SET

LEVEL II CERTIFICATION 18214
LEVEL II EXPIRATION DATE: 2024.10.16

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# EOC CLASSROOMS

2312 SHURLING DRIVE, MACON, GEORGIA

| Drawing Issue Schedule | |
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| 05/15/2024 | PERMIT SET |
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Project No: 2023-19


REEVES DESIGN
Services, LLC ◆ Consulting Engineers
GEORGIA REGISTERED ENGINEERING FIRM PEF006185
P.O. Box 26534 / Macon, GA 31221
478.747.6772 / www.reevesdesign.net


ESPC - NOTES AND BASIN MAPS

C9.5