

MCRA DRAINAGE IMPROVEMENTS FOR MIDCOAST JMB LIBERTY COUNTY, GEORGIA DATE: JUNE 18, 2023

**SHEET INDEX:
DESCRIPTION**

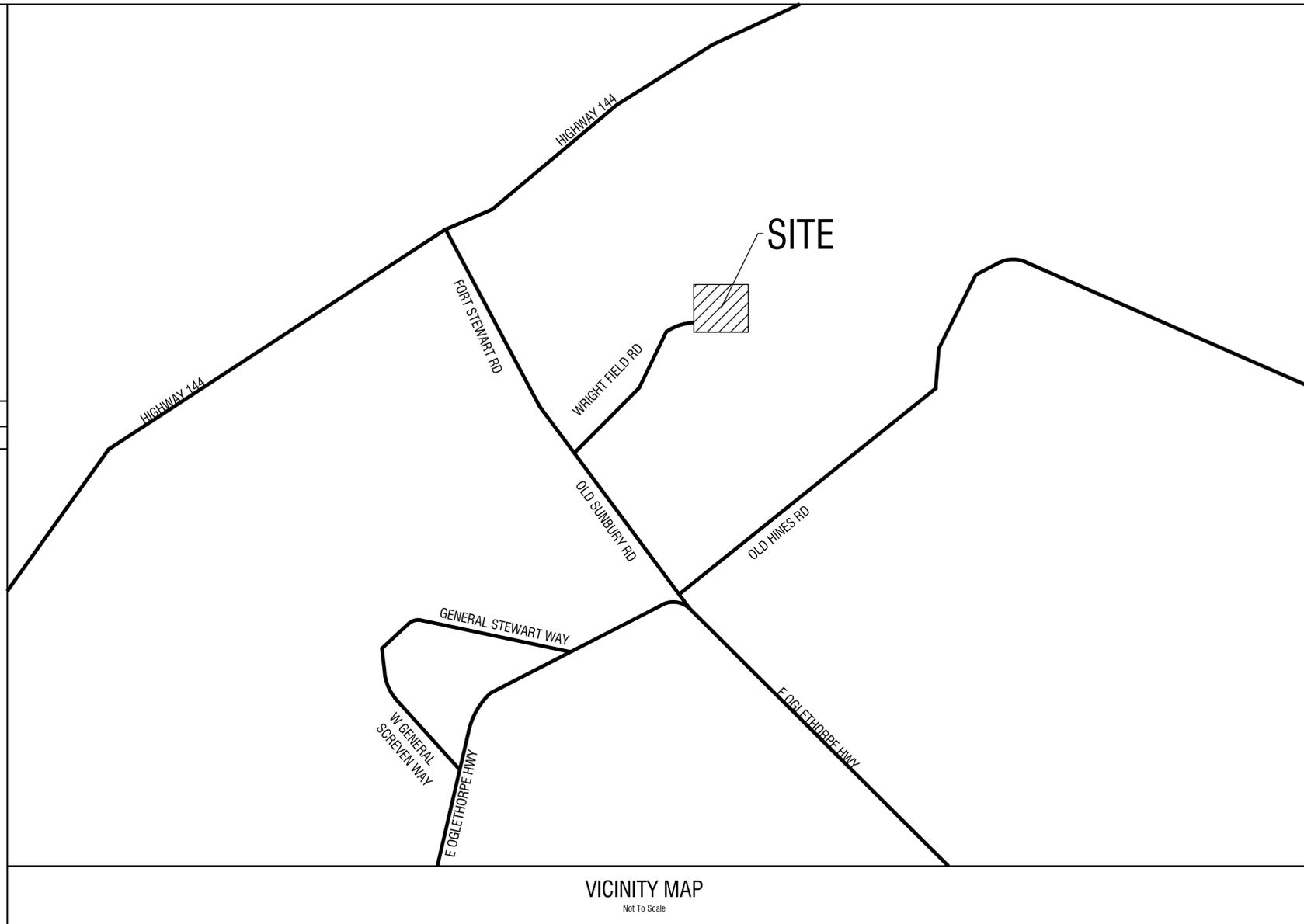
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DRAWING LEGEND

DESCRIPTION	PROPOSED	EXISTING
SANITARY SEWER		
UNDERGROUND WATER LINE		
FORCE MAIN		
STORM DRAINAGE PIPE		
UNDERGROUND TELEPHONE LINE		
UNDERGROUND TELEPHONE CONDUIT		
UNDERGROUND GAS LINE		
DITCH CENTERLINE		
SPOT ELEVATION		
TOP OF CURB ELEVATION		
FIRE HYDRANT		
SEWER MANHOLE		
WATER VALVE		
TELEPHONE MANHOLE		
LIGHT POLE		
SIGN		
WATER METER		
BENCHMARK		
CONCRETE MONUMENT FOUND		
GUY POLE		
IRON PIN FOUND		
IRON PIN SET		
TELEPHONE PEDESTAL		
POWER POLE		
HANDICAP SPACE		
SEDIMENT BASIN MARKER W/NOTCH		



**Know what's below.
Call before you dig.**

OWNER: MIDCOAST JMB 112 NORTH MAIN STREET HINESVILLE, GA 31313 (912) 876-2164 JOEY.BROWN@LIBERTYCOUNTYGA.COM	GPS COORDINATES OF CO: N: 31.883078 E: -81.559831 DATUM: NAVD88
24 HOUR CONTACT: JOEY BROWN 112 NORTH MAIN STREET HINESVILLE, GA 31313 (912) 876-2164 JOEY.BROWN@LIBERTYCOUNTYGA.COM	DESIGN PROFESSIONAL: DATE: 12/29/2023

19
M.E. SACK
ENGINEERING
80

515 NORTH MAIN STREET
P.O. BOX 649
HINESVILLE, GA 31313
TEL: (912) 368-5212

10375 FORD AVENUE
UNIT A-2
RICHMOND HILL, GA 31324

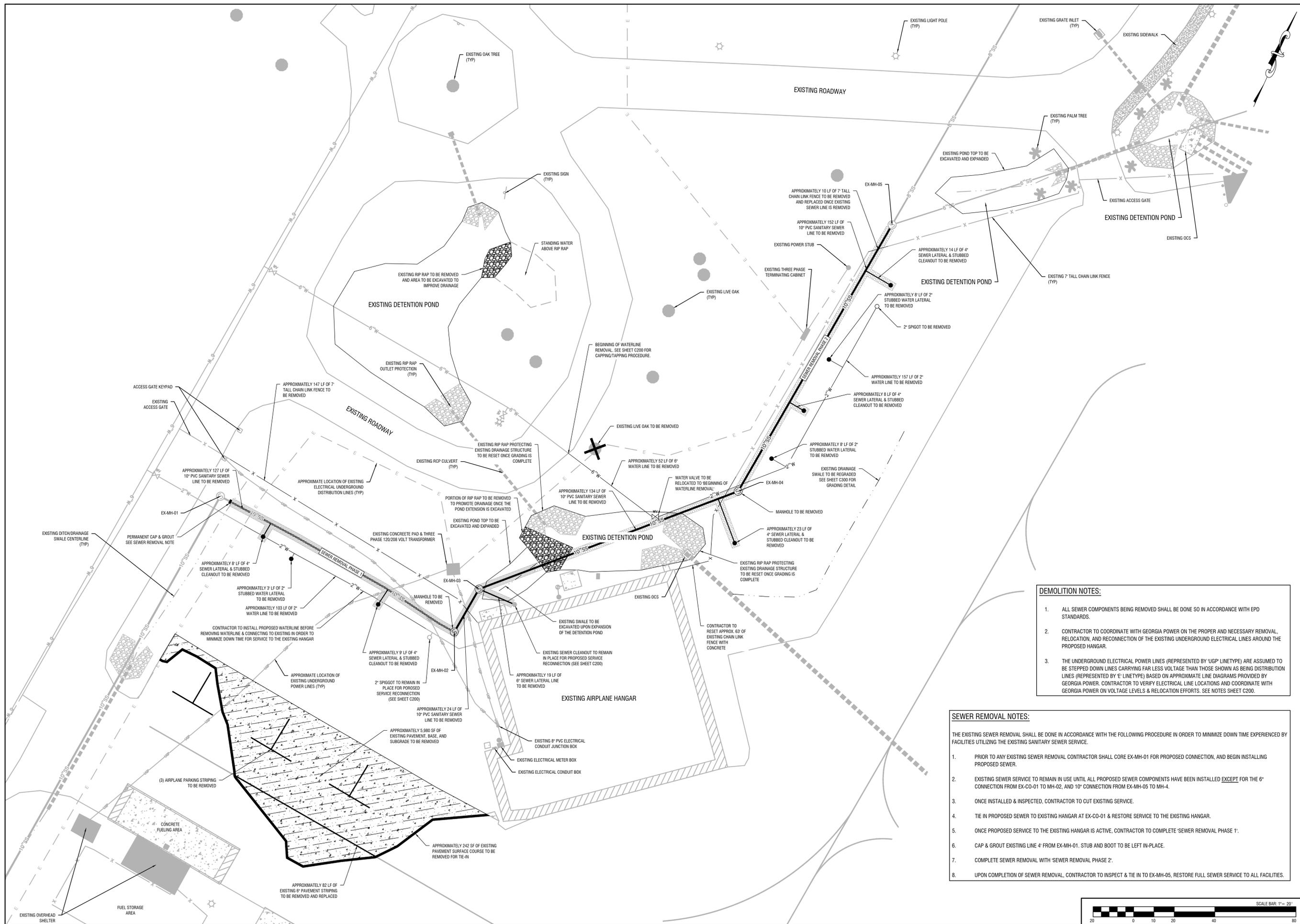
- GENERAL NOTES**
1. ALL EXISTING UTILITIES SHOWN ARE LOCATED FROM BEST AVAILABLE INFORMATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ACTUAL FIELD LOCATION AND PROTECTION OF EXISTING UTILITIES. OVERHEAD LINES ARE NOT SHOWN FOR CLARITY.
 2. ALL DISTURBED AREAS TO BE REVEGETATED IMMEDIATELY AFTER CONSTRUCTION, IN ACCORDANCE WITH THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA.
 3. ALL EROSION AND SEDIMENTATION CONTROL STRUCTURES SHALL BE INSTALLED PRIOR TO THE START OF CONSTRUCTION.
 4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPLACEMENT OF ANY PROPERTY CORNERS, RIGHT OF WAY MONUMENTS, SIGNS OR OTHER STRUCTURES DISTURBED DURING CONSTRUCTION.
 5. ALL TRAFFIC AND SIGNAGE CONTROL SHALL BE IN ACCORDANCE WITH THE MANUAL FOR UNIFORM TRAFFIC CONTROL DEVICES, MUTCD, CURRENT EDITION.

REVISION NO.	DATE	DESCRIPTION
1.	12/28/2023	GSWCC COMMENTS
2.	12/28/2023	ADDENDUM 1

JOB NO. 2022-51PRJ

COVER SHEET

PLOT DATE: December 29, 2023



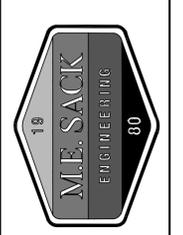
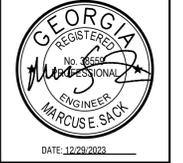
REVISIONS:

1.	GSWCC COMMENTS
2.	ADDENDUM 1

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DESIGN PROFESSIONAL:
MARCUS E. SACK
 GSWCC LEVEL II # 70248
 EXPIRES: 06/14/2026
 MARCUS@MESACK.COM

515 NORTH MAIN STREET
 P.O. BOX 649
 HINESVILLE, GA 31313
 TEL: (912) 368-5212



MUNICIPALITY:
 LIBERTY COUNTY

COUNTY:
 LIBERTY COUNTY

OWNER:
 MIDCOAST JMB
 112 N MAIN ST
 HINESVILLE, GA 31313
 (912) 876-2164

24 HOUR CONTACT:
 JOEY BROWN
 112 N MAIN ST
 HINESVILLE, GA 31313
 (912) 876-2164
 JOEY.BROWN@LIBERTYCOUNTYGA.COM

**MCRA
 Drainage
 Improvements**

**DEMOLITION
 PLAN**

C100

FILE NO: 2022-51
 PLOT DATE: December 29, 2023

DEMOLITION NOTES:

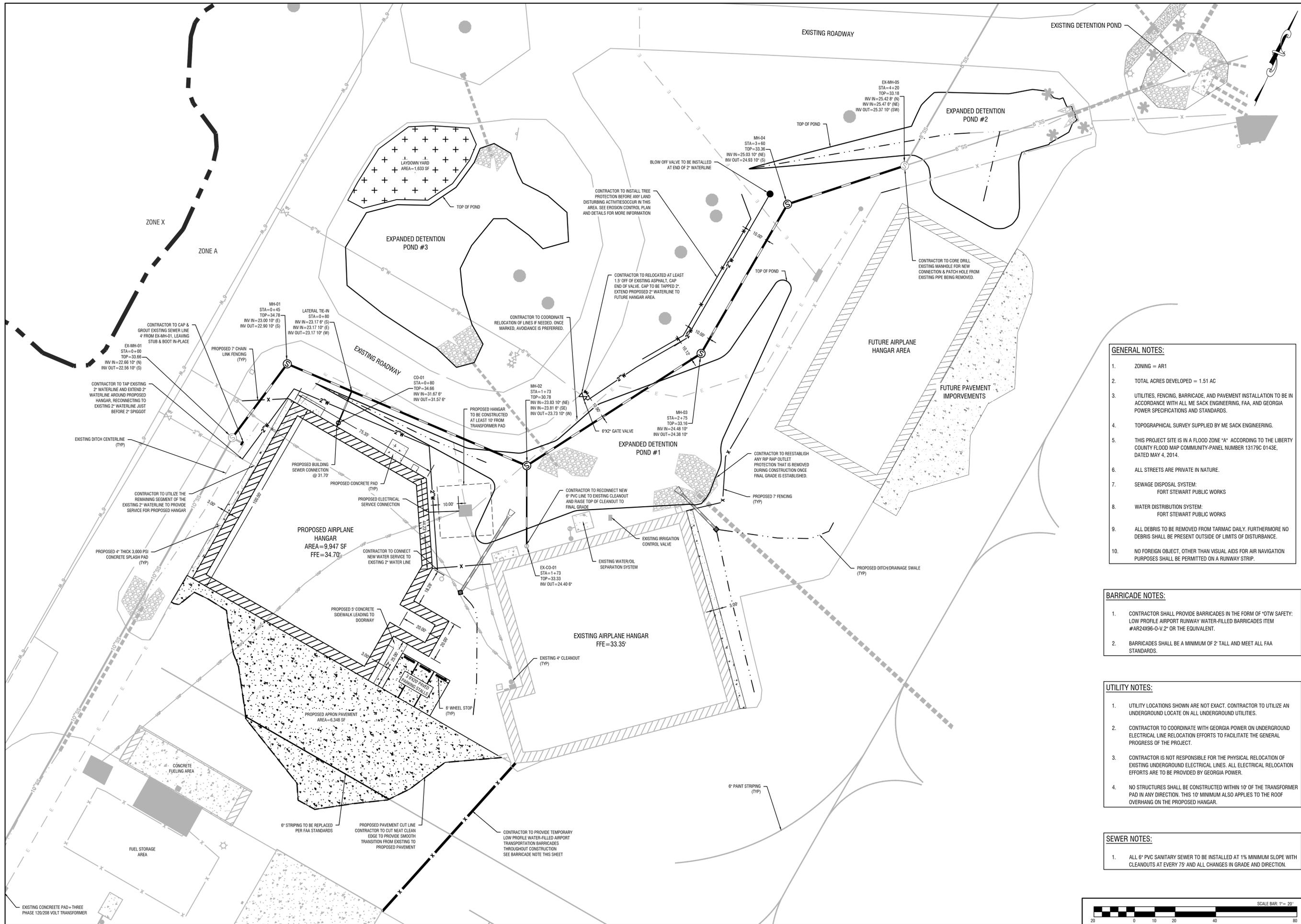
- ALL SEWER COMPONENTS BEING REMOVED SHALL BE DONE SO IN ACCORDANCE WITH EPD STANDARDS.
- CONTRACTOR TO COORDINATE WITH GEORGIA POWER ON THE PROPER AND NECESSARY REMOVAL, RELOCATION, AND RECONNECTION OF THE EXISTING UNDERGROUND ELECTRICAL LINES AROUND THE PROPOSED HANGAR.
- THE UNDERGROUND ELECTRICAL POWER LINES (REPRESENTED BY 'UGP' LINETYPE) ARE ASSUMED TO BE STEPPED DOWN LINES CARRYING FAR LESS VOLTAGE THAN THOSE SHOWN AS BEING DISTRIBUTION LINES (REPRESENTED BY 'E' LINETYPE) BASED ON APPROXIMATE LINE DIAGRAMS PROVIDED BY GEORGIA POWER. CONTRACTOR TO VERIFY ELECTRICAL LINE LOCATIONS AND COORDINATE WITH GEORGIA POWER ON VOLTAGE LEVELS & RELOCATION EFFORTS. SEE NOTES SHEET C200.

SEWER REMOVAL NOTES:

THE EXISTING SEWER REMOVAL SHALL BE DONE IN ACCORDANCE WITH THE FOLLOWING PROCEDURE IN ORDER TO MINIMIZE DOWN TIME EXPERIENCED BY FACILITIES UTILIZING THE EXISTING SANITARY SEWER SERVICE.

- PRIOR TO ANY EXISTING SEWER REMOVAL CONTRACTOR SHALL CORE EX-MH-01 FOR PROPOSED CONNECTION, AND BEGIN INSTALLING PROPOSED SEWER.
- EXISTING SEWER SERVICE TO REMAIN IN USE UNTIL ALL PROPOSED SEWER COMPONENTS HAVE BEEN INSTALLED EXCEPT FOR THE 6" CONNECTION FROM EX-CO-01 TO MH-02, AND 10" CONNECTION FROM EX-MH-05 TO MH-4.
- ONCE INSTALLED & INSPECTED, CONTRACTOR TO CUT EXISTING SERVICE.
- TIE IN PROPOSED SEWER TO EXISTING HANGAR AT EX-CO-01 & RESTORE SERVICE TO THE EXISTING HANGAR.
- ONCE PROPOSED SERVICE TO THE EXISTING HANGAR IS ACTIVE, CONTRACTOR TO COMPLETE SEWER REMOVAL PHASE 1:
- CAP & GROUT EXISTING LINE 4" FROM EX-MH-01, STUB AND BOOT TO BE LEFT IN-PLACE.
- COMPLETE SEWER REMOVAL WITH SEWER REMOVAL PHASE 2.
- UPON COMPLETION OF SEWER REMOVAL, CONTRACTOR TO INSPECT & TIE IN TO EX-MH-05, RESTORE FULL SEWER SERVICE TO ALL FACILITIES.





REVISIONS:

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MARCUS E. SACK
 GSWCC LEVEL II # 70248
 EXPIRES: 06/14/2026
 MARCUS@MESACK.COM

515 NORTH MAIN STREET
 P.O. BOX 649
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HINESVILLE, GA 31313
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 112 N MAIN ST
 HINESVILLE, GA 31313
 (912) 876-2164
 JOEY.BROWN@LIBERTYCOUNTYGA.COM

MCRA Drainage Improvements

SITE & UTILITY PLAN

C200

FILE NO: 2022-51
 PLOT DATE: December 29, 2023

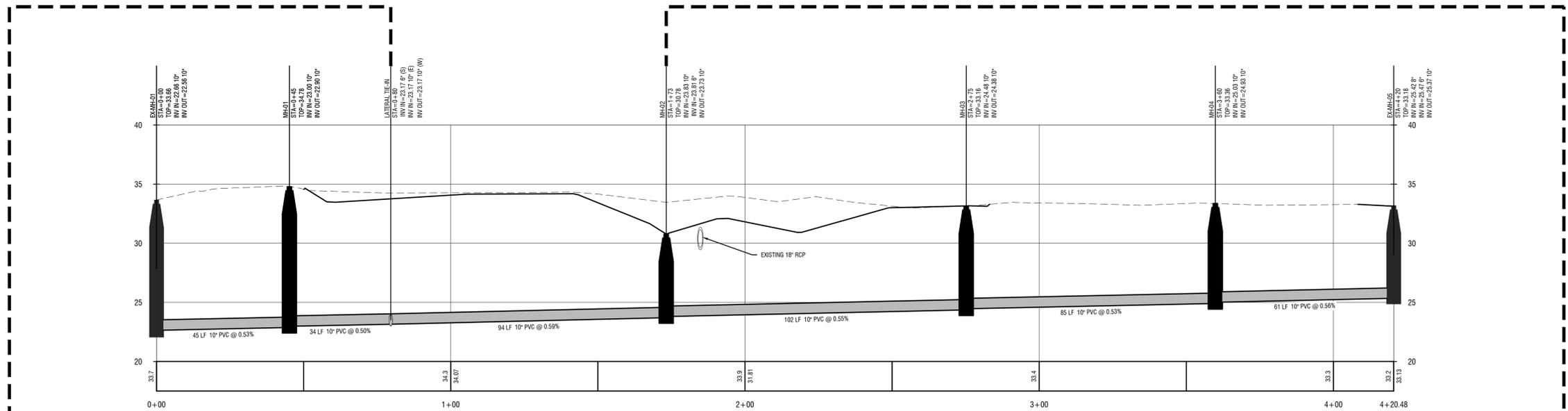
- GENERAL NOTES:**
- ZONING = AR1
 - TOTAL ACRES DEVELOPED = 1.51 AC
 - UTILITIES, FENCING, BARRICADE, AND PAVEMENT INSTALLATION TO BE IN ACCORDANCE WITH ALL ME SACK ENGINEERING, FAA, AND GEORGIA POWER SPECIFICATIONS AND STANDARDS.
 - TOPOGRAPHICAL SURVEY SUPPLIED BY ME SACK ENGINEERING.
 - THIS PROJECT SITE IS IN A FLOOD ZONE "A" ACCORDING TO THE LIBERTY COUNTY FLOOD MAP COMMUNITY-PANEL NUMBER 13179C 0143E, DATED MAY 4, 2014.
 - ALL STREETS ARE PRIVATE IN NATURE.
 - SEWAGE DISPOSAL SYSTEM:
FORT STEWART PUBLIC WORKS
 - WATER DISTRIBUTION SYSTEM:
FORT STEWART PUBLIC WORKS
 - ALL DEBRIS TO BE REMOVED FROM TARMAC DAILY. FURTHERMORE NO DEBRIS SHALL BE PRESENT OUTSIDE OF LIMITS OF DISTURBANCE.
 - NO FOREIGN OBJECT, OTHER THAN VISUAL AIDS FOR AIR NAVIGATION PURPOSES SHALL BE PERMITTED ON A RUNWAY STRIP.

- BARRICADE NOTES:**
- CONTRACTOR SHALL PROVIDE BARRICADES IN THE FORM OF "OTW SAFETY": LOW PROFILE AIRPORT RUNWAY WATER-FILLED BARRICADES ITEM #AR24X96-0-V-2" OR THE EQUIVALENT.
 - BARRICADES SHALL BE A MINIMUM OF 2' TALL AND MEET ALL FAA STANDARDS.

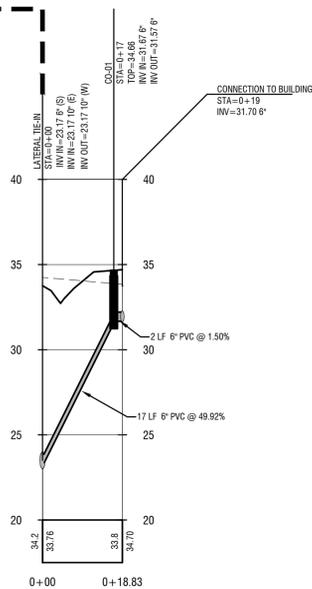
- UTILITY NOTES:**
- UTILITY LOCATIONS SHOWN ARE NOT EXACT. CONTRACTOR TO UTILIZE AN UNDERGROUND LOCATE ON ALL UNDERGROUND UTILITIES.
 - CONTRACTOR TO COORDINATE WITH GEORGIA POWER ON UNDERGROUND ELECTRICAL LINE RELOCATION EFFORTS TO FACILITATE THE GENERAL PROGRESS OF THE PROJECT.
 - CONTRACTOR IS NOT RESPONSIBLE FOR THE PHYSICAL RELOCATION OF EXISTING UNDERGROUND ELECTRICAL LINES. ALL ELECTRICAL RELOCATION EFFORTS ARE TO BE PROVIDED BY GEORGIA POWER.
 - NO STRUCTURES SHALL BE CONSTRUCTED WITHIN 10' OF THE TRANSFORMER PAD IN ANY DIRECTION. THIS 10' MINIMUM ALSO APPLIES TO THE ROOF OVERHANG ON THE PROPOSED HANGAR.

- SEWER NOTES:**
- ALL 6" PVC SANITARY SEWER TO BE INSTALLED AT 1% MINIMUM SLOPE WITH CLEANOUTS AT EVERY 75' AND ALL CHANGES IN GRADE AND DIRECTION.

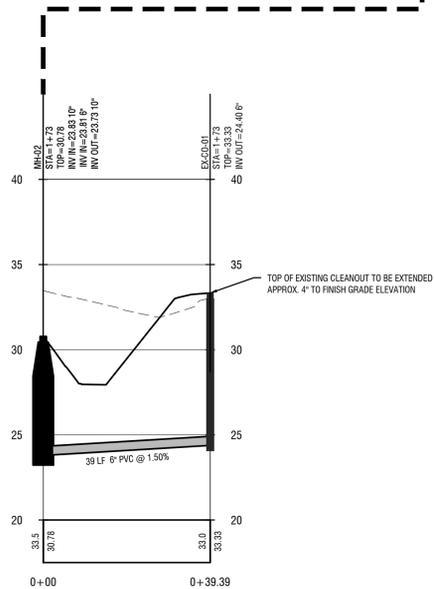




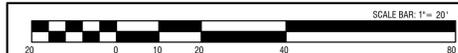
SL-RUN-01 PROFILE
 VERT. SCALE: 1"=5'
 HORIZ. SCALE: 1"=20'



SL-RUN-01A PROFILE
 VERT. SCALE: 1"=5'
 HORIZ. SCALE: 1"=20'



SL-RUN-01B PROFILE
 VERT. SCALE: 1"=5'
 HORIZ. SCALE: 1"=20'



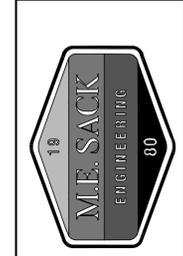
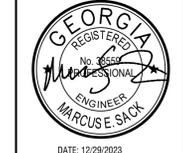
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1.	GSWCC COMMENTS
2.	ADDENDUM 1

DRAWING COMPLETED BY: LEGAL REVIEW

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DESIGN PROFESSIONAL:
 MARCUS E. SACK
 GSWCC LEVEL II # 70248
 EXPIRES: 06/14/2026
 MARCUS@MESACK.COM

515 NORTH MAIN STREET
 P.O. BOX 548
 HINESVILLE, GA 31313
 TEL: (912) 368-5212



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 MIDCOAST JMB
 112 N MAIN ST
 HINESVILLE, GA 31313
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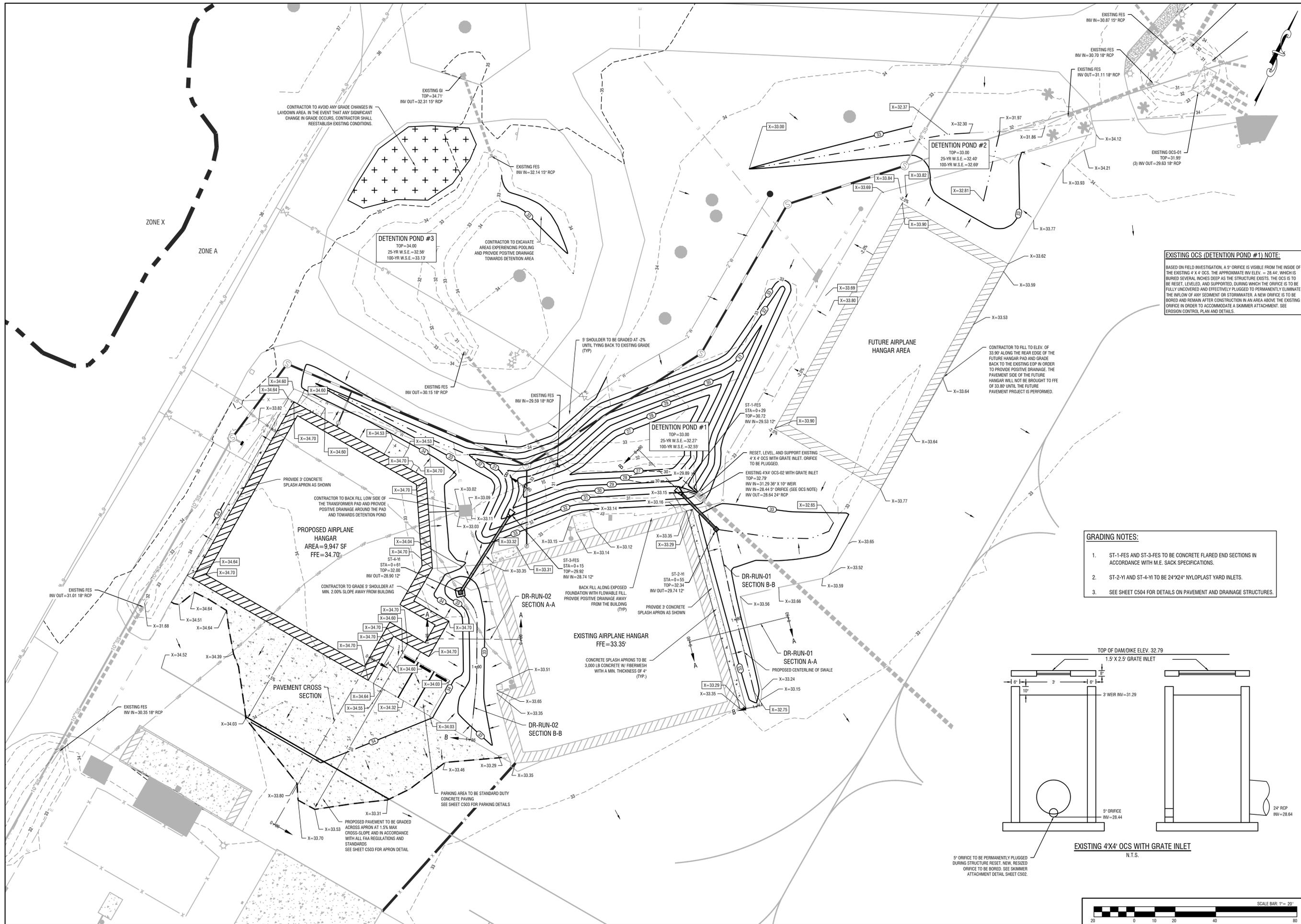
24 HOUR CONTACT:
 JOEY BROWN
 112 N MAIN ST
 HINESVILLE, GA 31313
 (912) 876-2164
 JOEY.BROWN@LIBERTYCOUNTYGA.COM

MCRA Drainage Improvements

UTILITY
 PROFILES

C201

FILE NO: 2022-51
 PLOT DATE: December 29, 2023



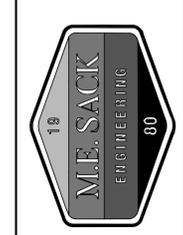
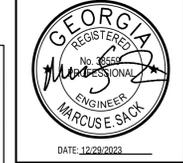
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 MARCUS@MESACK.COM

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 HINESVILLE, GA 31313
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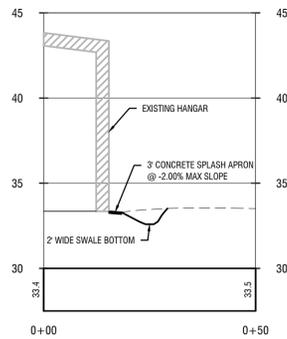
MCRA Drainage Improvements

GRADING PLAN

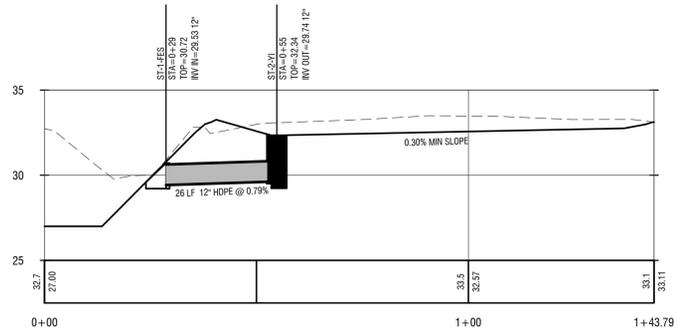
C300

FILE NO: 2022-51
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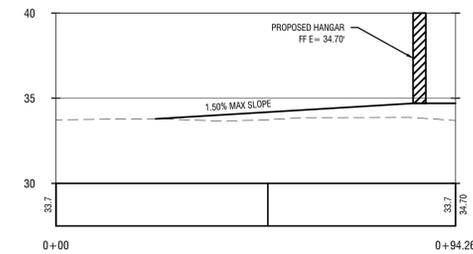




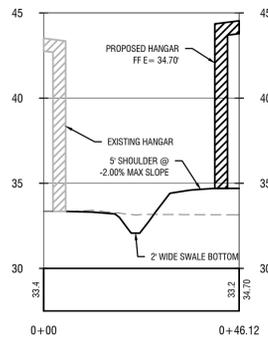
DR-RUN-01 SECTION A-A PROFILE
 VERT. SCALE: 1"=5'
 HORIZ SCALE: 1"=20'



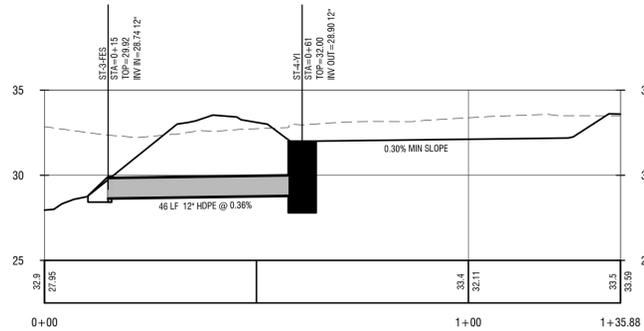
DR-RUN-01 SECTION B-B PROFILE
 VERT. SCALE: 1"=5'
 HORIZ SCALE: 1"=20'



PAVEMENT CROSS SECTION PROFILE
 VERT. SCALE: 1"=5'
 HORIZ SCALE: 1"=20'



DR-RUN-02 SECTION A-A PROFILE
 VERT. SCALE: 1"=5'
 HORIZ SCALE: 1"=20'



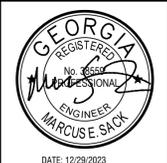
DR-RUN-02 SECTION B-B PROFILE
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REVISIONS:	
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DESIGN PROFESSIONAL:
 MARCUS E. SACK
 GSWCC LEVEL II # 70248
 EXPIRES: 06/14/2026
 MARCUS@MESACK.COM
 515 NORTH MAIN STREET
 P.O. BOX 649
 HINESVILLE, GA 31313
 TEL: (912) 368-5212



MUNICIPALITY:
 LIBERTY COUNTY

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 MIDCOAST JMB
 112 N MAIN ST
 HINESVILLE, GA 31313
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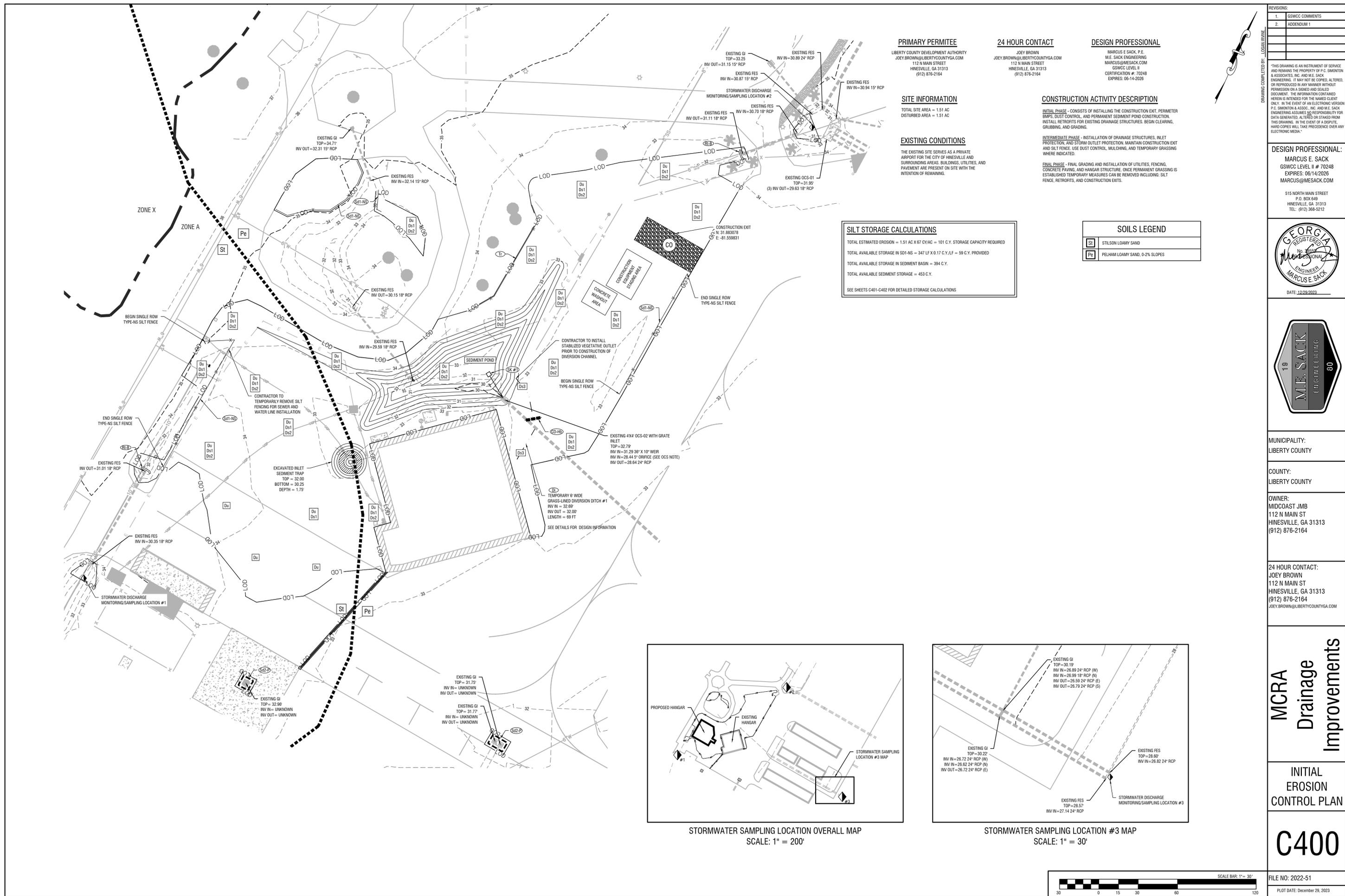
24 HOUR CONTACT:
 JOEY BROWN
 112 N MAIN ST
 HINESVILLE, GA 31313
 (912) 876-2164
 JOEY.BROWN@LIBERTYCOUNTYGA.COM

**MCRA
 Drainage
 Improvements**

**GRADING
 PROFILES**

C301

FILE NO: 2022-51
 PLOT DATE: December 29, 2023



PRIMARY PERMITEE
 LIBERTY COUNTY DEVELOPMENT AUTHORITY
 JOEY BROWN@LIBERTYCOUNTYGA.COM
 112 N MAIN STREET
 HINESVILLE, GA 31313
 (912) 876-2164

24 HOUR CONTACT
 JOEY BROWN
 JOEY.BROWN@LIBERTYCOUNTYGA.COM
 112 N MAIN STREET
 HINESVILLE, GA 31313
 (912) 876-2164

DESIGN PROFESSIONAL
 MARCUS E SACK, P.E.
 M.E. SACK ENGINEERING
 MARCUS@MESACK.COM
 GSWCC LEVEL II
 CERTIFICATION # 70248
 EXPIRES: 06-14-2026

SITE INFORMATION
 TOTAL SITE AREA = 1.51 AC
 DISTURBED AREA = 1.51 AC

EXISTING CONDITIONS
 THE EXISTING SITE SERVES AS A PRIVATE AIRPORT FOR THE CITY OF HINESVILLE AND SURROUNDING AREAS. BUILDINGS, UTILITIES, AND PAVEMENT ARE PRESENT ON SITE WITH THE INTENTION OF REMAINING.

CONSTRUCTION ACTIVITY DESCRIPTION
INITIAL PHASE - CONSISTS OF INSTALLING THE CONSTRUCTION EXIT, PERIMETER BARRIERS, DUST CONTROL, AND PERMANENT SEDIMENT POND CONSTRUCTION. INSTALL RETROFITS FOR EXISTING DRAINAGE STRUCTURES, BEGIN CLEARING, GRUBBING, AND GRADING.
INTERMEDIATE PHASE - INSTALLATION OF DRAINAGE STRUCTURES, INLET PROTECTION, AND STORM OUTLET PROTECTION. MAINTAIN CONSTRUCTION EXIT AND SILT FENCE. USE DUST CONTROL, MULCHING, AND TEMPORARY GRASSING WHERE INDICATED.
FINAL PHASE - FINAL GRADING AND INSTALLATION OF UTILITIES, FENCING, CONCRETE PAVING, AND HANGAR STRUCTURE. ONCE PERMANENT GRASSING IS ESTABLISHED TEMPORARY MEASURES CAN BE REMOVED INCLUDING SILT FENCE, RETROFITS, AND CONSTRUCTION EXITS.

SILT STORAGE CALCULATIONS
 TOTAL ESTIMATED EROSION = 1.51 AC X 67 CY/AC = 101 C.Y. STORAGE CAPACITY REQUIRED
 TOTAL AVAILABLE STORAGE IN SD1-NS = 347 LF X 0.17 C.Y./LF = 59 C.Y. PROVIDED
 TOTAL AVAILABLE STORAGE IN SEDIMENT BASIN = 394 C.Y.
 TOTAL AVAILABLE SEDIMENT STORAGE = 453 C.Y.
 SEE SHEETS C401-C402 FOR DETAILED STORAGE CALCULATIONS

SOILS LEGEND

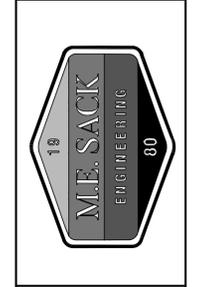
St	STILSON LOAMY SAND
Pe	PELHAM LOAMY SAND, 0-2% SLOPES

REVISIONS:

1.	GSWCC COMMENTS
2.	ADDENDUM 1

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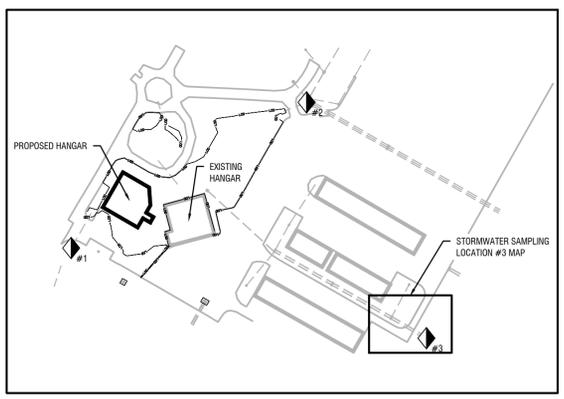
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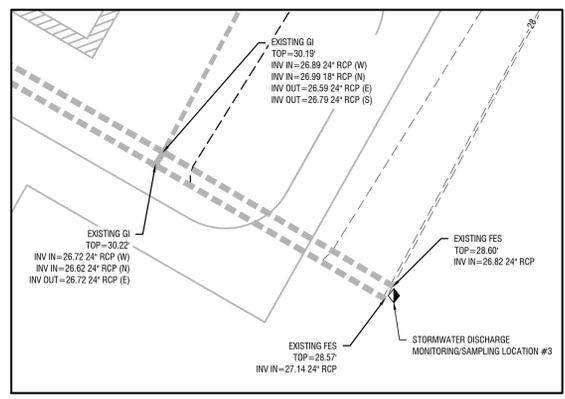
**INITIAL
 EROSION
 CONTROL PLAN**

C400

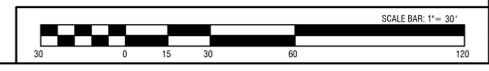
FILE NO: 2022-51
PLOT DATE: December 29, 2023

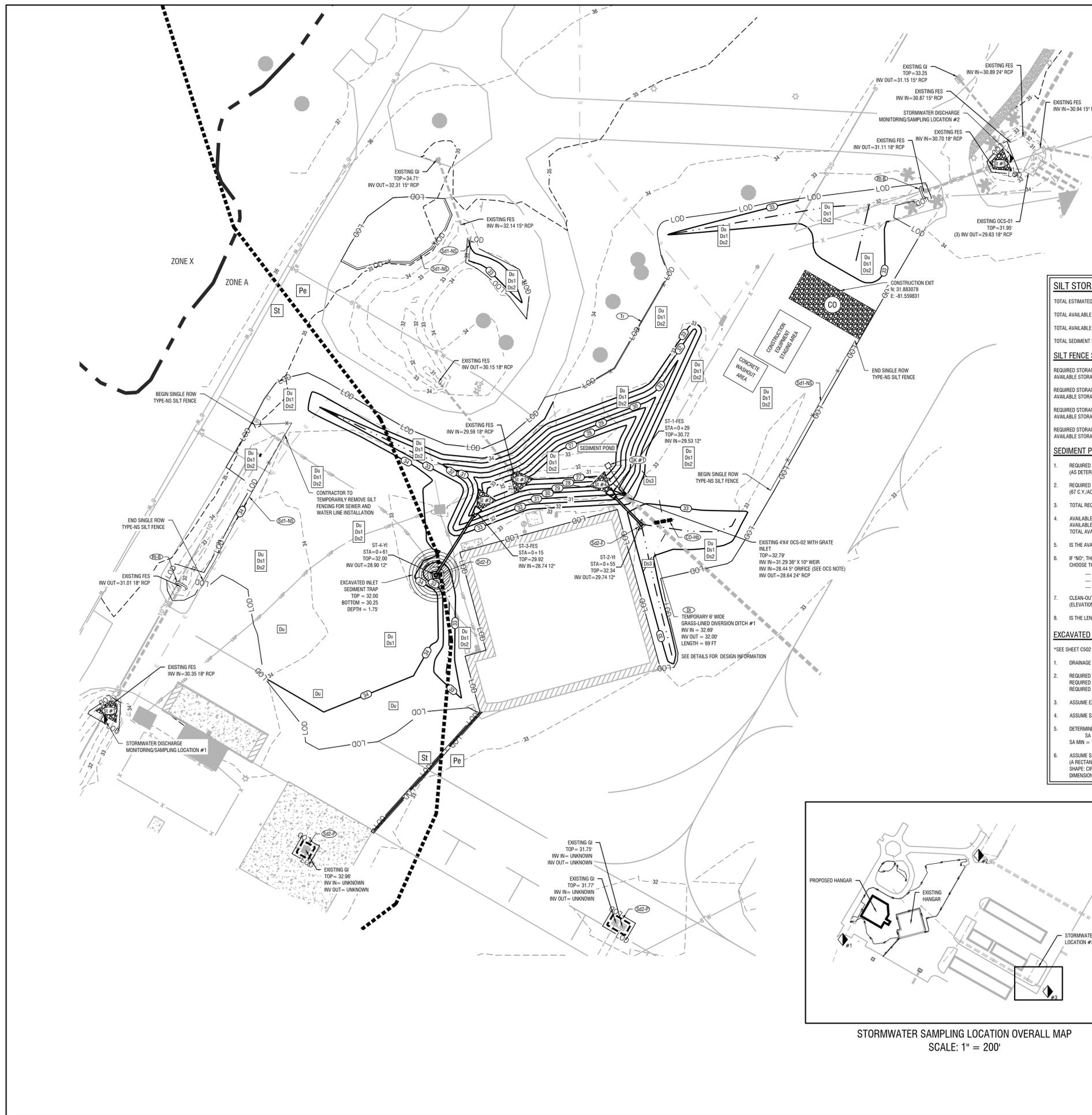


STORMWATER SAMPLING LOCATION OVERALL MAP
 SCALE: 1" = 200'



STORMWATER SAMPLING LOCATION #3 MAP
 SCALE: 1" = 30'





PRIMARY PERMITEE
 LIBERTY COUNTY DEVELOPMENT AUTHORITY
 JOEY BROWN@LIBERTYCOUNTYGA.COM
 112 N MAIN STREET
 HINESVILLE, GA 31313
 (912) 876-2164

24 HOUR CONTACT
 JOEY BROWN
 JOEY.BROWN@LIBERTYCOUNTYGA.COM
 112 N MAIN STREET
 HINESVILLE, GA 31313
 (912) 876-2164

DESIGN PROFESSIONAL
 MARCUS E. SACK, P.E.
 M.E. SACK ENGINEERING
 MARCUS@MESACK.COM
 GSWCC LEVEL II
 CERTIFICATION # 70248
 EXPIRES: 06/14/2026

SITE INFORMATION
 TOTAL SITE AREA = 1.51 AC
 DISTURBED AREA = 1.51 AC

EXISTING CONDITIONS
 THE EXISTING SITE SERVES AS A PRIVATE AIRPORT FOR THE CITY OF HINESVILLE AND SURROUNDING AREAS. BUILDINGS, UTILITIES, AND PAVEMENT ARE PRESENT ON SITE WITH THE INTENTION OF REMAINING.

CONSTRUCTION ACTIVITY DESCRIPTION
INITIAL PHASE - CONSISTS OF INSTALLING THE CONSTRUCTION EXIT, PERMETER BIRMS, DUST CONTROL, AND PERMANENT SEDIMENT POND CONSTRUCTION. INSTALL RETROFITS FOR EXISTING DRAINAGE STRUCTURES, BEGIN CLEARING, GRUBBING, AND GRADING.
INTERMEDIATE PHASE - INSTALLATION OF DRAINAGE STRUCTURES, INLET PROTECTION, AND STORM OUTLET PROTECTION. MAINTAIN CONSTRUCTION EXIT AND SILT FENCE. USE DUST CONTROL, MULCHING, AND TEMPORARY GRASSING WHERE INDICATED.
FINAL PHASE - FINAL GRADING AND INSTALLATION OF UTILITIES, FENCING, CONCRETE PAVING, AND HANGAR STRUCTURE. ONCE PERMANENT GRASSING IS ESTABLISHED TEMPORARY MEASURES CAN BE REMOVED INCLUDING SILT FENCE, RETROFITS, AND CONSTRUCTION EXITS.

SILT STORAGE CALCULATIONS
 TOTAL ESTIMATED EROSION = 1.51 AC X 67 CY/AC = 101 C.Y. STORAGE CAPACITY REQUIRED
 TOTAL AVAILABLE STORAGE IN SD1-NS = 347 LF X 0.17 C.Y./LF = 59 C.Y. PROVIDED
 TOTAL AVAILABLE STORAGE IN SEDIMENT BASIN = 394 C.Y.
 TOTAL SEDIMENT STORAGE PROVIDED = 453 C.Y.

SILT FENCE SD1-NS STORAGE CALCULATIONS
 REQUIRED STORAGE FOR SEGMENT #1: 0.135 AC X 67 C.Y./AC = 9 C.Y. REQUIRED STORAGE AVAILABLE STORAGE FOR SEGMENT #1: 134 LF X 0.17 C.Y./LF = 23 C.Y. AVAILABLE STORAGE
 REQUIRED STORAGE FOR SEGMENT #2: 0.174 AC X 67 C.Y./AC = 11.66 C.Y. REQUIRED STORAGE AVAILABLE STORAGE FOR SEGMENT #2: 105 LF X 0.17 C.Y./LF = 18 C.Y. AVAILABLE STORAGE
 REQUIRED STORAGE FOR SEGMENT #3: 0.015 AC X 67 C.Y./AC = 1 C.Y. REQUIRED STORAGE AVAILABLE STORAGE FOR SEGMENT #3: 18 LF X 0.17 C.Y./LF = 3 C.Y. AVAILABLE STORAGE
 REQUIRED STORAGE FOR SEGMENT #4: 0.045 AC X 67 C.Y./AC = 3 C.Y. REQUIRED STORAGE AVAILABLE STORAGE FOR SEGMENT #4: 90 LF X 0.17 C.Y./LF = 15 C.Y. AVAILABLE STORAGE

SEDIMENT POND R1 STORAGE CALCULATIONS
 1. REQUIRED STORMWATER STORAGE = 560 C.Y. (AS DETERMINED BY LOCAL ORDINANCE)
 2. REQUIRED SEDIMENT STORAGE = 0.408 AC X 67 C.Y. = 28 C.Y. (67 C.Y./AC X DISTURBED AREA)
 3. TOTAL REQUIRED STORAGE = 588 C.Y.
 4. AVAILABLE SEDIMENT STORAGE = 394 C.Y. AVAILABLE STORMWATER STORAGE = 685 C.Y. TOTAL AVAILABLE STORAGE = 1,079 C.Y.
 5. IS THE AVAILABLE STORAGE GREATER THAN THE REQUIRED STORAGE? **YES** NO
 6. IF "NO", THE SEDIMENT STORAGE CAPACITY OF THE POND MUST BE INCREASED. CHOOSE THE METHOD TO BE USED:
 ___ RAISE INVERT OF THE OUTLET STRUCTURE ___ INCHES
 ___ UNDERCUT THE POND ___ FEET
 ___ OTHER
 7. CLEAN-OUT ELEVATION = 30.74 C.Y. (ELEVATION CORRESPONDING TO 22 C.Y./AC X 408 AC)
 8. IS THE LENGTH TO WIDTH RATIO 2:1 OR GREATER? **YES** NO

EXCAVATED INLET SEDIMENT TRAP #1 CALCULATIONS
 *SEE SHEET C502 FOR EXCAVATED INLET SEDIMENT TRAP DETAIL
 1. DRAINAGE AREA = 0.272 AC
 2. REQUIRED SEDIMENT STORAGE = 67 CY/AC X DRAINAGE AREA
 REQUIRED SEDIMENT STORAGE = 67 CY/AC X 0.272 AC
 REQUIRED SEDIMENT STORAGE = 18.22 CY = 482 CF
 3. ASSUME EXCAVATION DEPTH (MIN 1.5 FT) = 1.75 FT
 4. ASSUME SLOPES OF SIDES (SHALL NOT BE STEEPER THAN 2:1) = 2:1
 5. DETERMINE REQUIRED SURFACE AREA
 SA MIN = REQUIRED SEDIMENT STORAGE / EXCAVATION DEPTH
 SA MIN = 18.22 CY / 1.75 FT SA MIN = 281 SF
 6. ASSUME SHAPE OF EXCAVATION AND DETERMINE DIMENSIONS (A RECTANGULAR SHAPE WITH 2:1 LENGTH TO WIDTH RATIO IS RECOMMENDED)
 SHAPE: CIRCULAR
 DIMENSIONS: DIAMETER = 24.6 FT

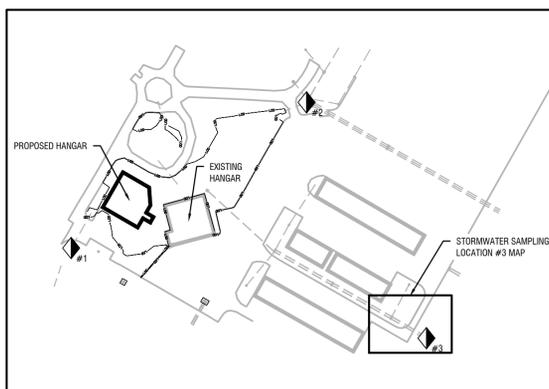
STORM OUTLET PROTECTION

STRUCTURE NO.	Do	La	W1	W2	a50	D	FLOW RATE (CFS)	VELOCITY (FPS)
ST #1	18"	10'	4.5'	14.5'	6"	13.5"	3.52	4.5
ST #2	12"	10'	3'	13'	6"	13.5"	2.20	2.8
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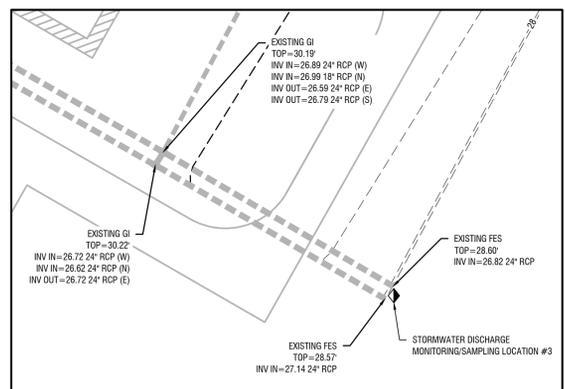
SKIMMER SK - DETENTION AREA #1

AVERAGE LENGTH	TOP = 200 FT BOTTOM = 105 FT
AVERAGE WIDTH	TOP = 55 FT BOTTOM = 40 FT
TOTAL DEPTH	6 FT
BASIN VOLUME	18,499 GFS
TIME TO DRAIN	72 HOURS
SKIMMER SIZE	2.5 INCHES
ORIFICE RADIUS	1.2 INCHES
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SKIMMER MANUFACTURER: FAIRLOTH SKIMMER



STORMWATER SAMPLING LOCATION OVERALL MAP
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STORMWATER SAMPLING LOCATION #3 MAP
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REVISIONS:

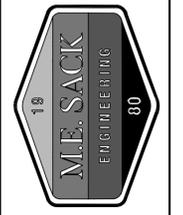
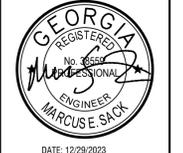
1.	GSWCC COMMENTS
2.	ADDENDUM 1

DRAWING COMPLETED BY: LEGAL REVIEW

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DESIGN PROFESSIONAL:
 MARCUS E. SACK
 GSWCC LEVEL II # 70248
 EXPIRES: 06/14/2026
 MARCUS@MESACK.COM

515 NORTH MAIN STREET
 P.O. BOX 649
 HINESVILLE, GA 31313
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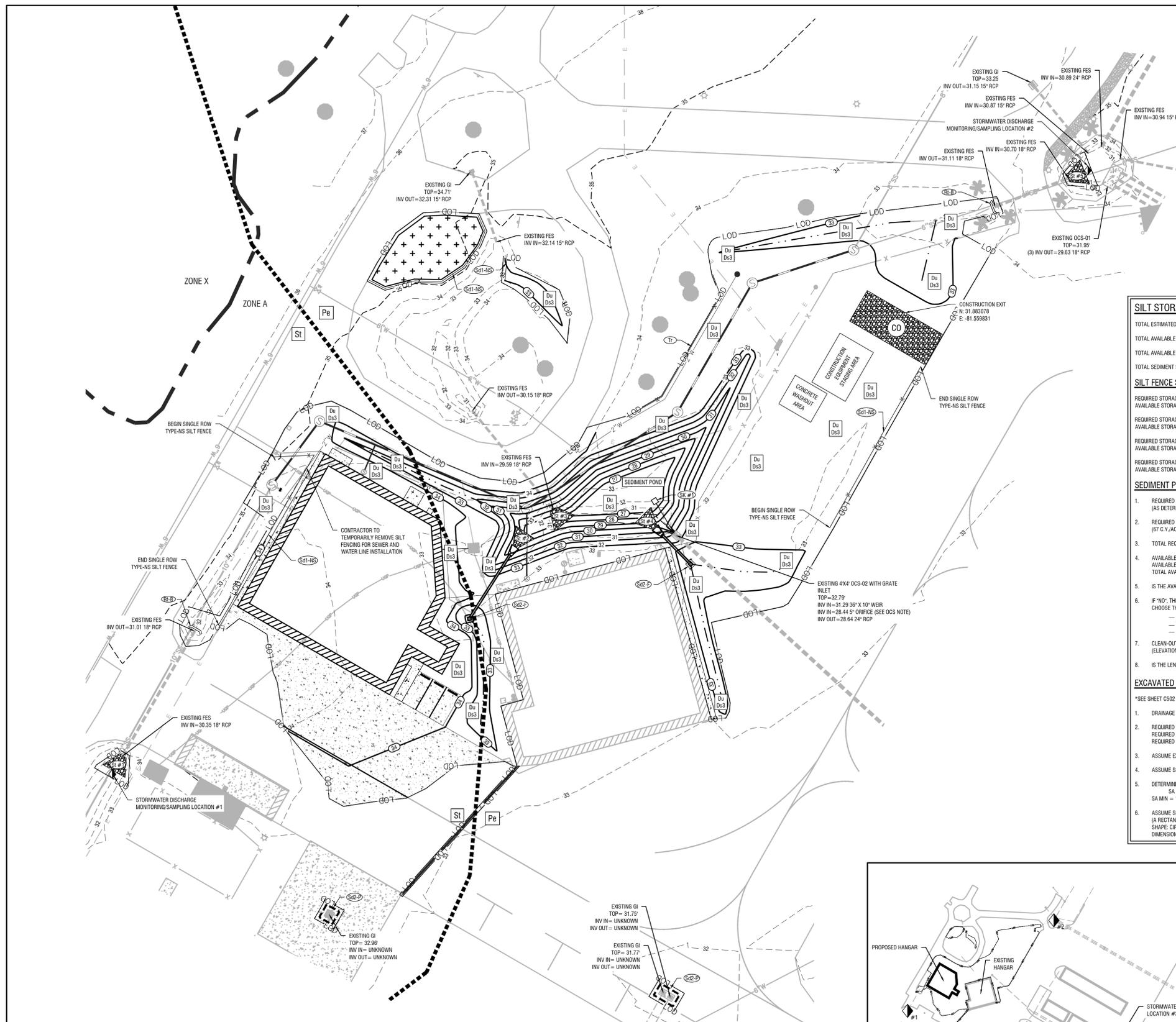
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**MCRA
 Drainage
 Improvements**

INTERMEDIATE
 EROSION
 CONTROL PLAN

C401

FILE NO: 2022-51
 PLOT DATE: December 29, 2023



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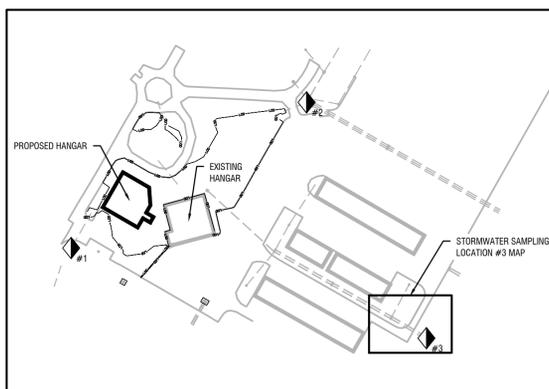
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STORM OUTLET PROTECTION

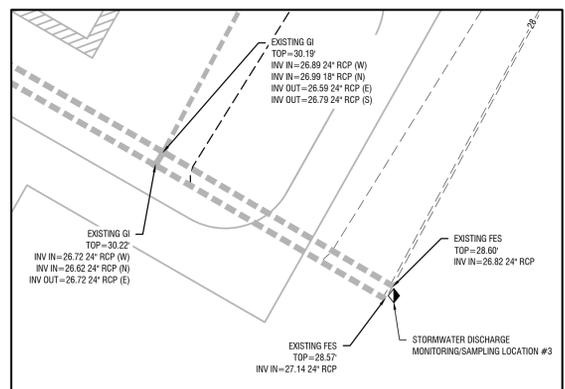
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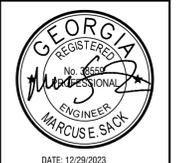


REVISIONS:

1.	GSWCC COMMENTS
2.	ADDENDUM 1

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**MCRA
 Drainage
 Improvements**

FINAL EROSION
 CONTROL PLAN

C402

FILE NO: 2022-51
 PLOT DATE: December 29, 2023

NPDES PERMIT REQUIREMENTS GAR 10001

4. EROSION.

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 FROM VEHICLES AND EQUIPMENT AND (B) ALL SAMPLES 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 WITH DISTURBED AREAS OF THE SITE THAT HAVE NOT 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 SEVEN (7) CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM THAT IS 0.5 INCHES RAINFALL OR GREATER (UNLESS SUCH 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). (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 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 WATERS). FOR AREAS OF A SITE THAT HAVE UNDERGONE FINAL STABILIZATION OR ESTABLISHED A CROP OF 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 HAS BEEN SUBMITTED) 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 WATERS). 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 WATERS).
- (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 INDICATES 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.(6) OF THIS 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 PROJECT 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 ADEQUATE LABORATORY ANALYSIS AND APPROPRIATE QUALITY CONTROL PROCEDURES. PROPER OPERATION AND MAINTENANCE INCIDENTS, THE INSPECTION REPORT SHALL CONTAIN A CERTIFICATION THAT THE BEST MANAGEMENT PRACTICES ARE IN COMPLIANCE WITH THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN. THE REPORT SHALL BE SIGNED IN ACCORDANCE WITH PART V.G.2. OF THIS PERMIT.

5. MAINTENANCE. THE PLAN SHALL INCLUDE A DESCRIPTION OF PROCEDURES TO ENSURE THE TIMELY MAINTENANCE OF VEGETATION, EROSION AND SEDIMENT CONTROL MEASURES AND OTHER PROTECTIVE MEASURES IDENTIFIED IN THE SITE PLAN.

6. SAMPLING REQUIREMENTS. THIS PERMIT REQUIRES THE MONITORING OF NEPHELOMETRIC TURBIDITY IN RECEIVING WATER(S) OR OUTFALLS IN ACCORDANCE WITH THIS PERMIT. THIS PARAGRAPH SHALL NOT APPLY TO ANY LAND DISTURBANCE ASSOCIATED WITH THE CONSTRUCTION OF SINGLE-FAMILY HOMES WHICH ARE NOT PART OF A SUBDIVISION OR PLANNED COMMON DEVELOPMENT UNLESS FIVE (5) ACRES OR MORE WILL BE DISTURBED. THE FOLLOWING PROCEDURES CONSTITUTE EPD'S GUIDELINES FOR SAMPLING TURBIDITY.

A. SAMPLING REQUIREMENTS SHALL INCLUDE THE FOLLOWING:

- (1). A USGS TOPOGRAPHIC MAP OR A TOPOGRAPHIC MAP OR A DRAWING (REFERRED TO AS A TOPOGRAPHIC MAP) THAT IS A SCALE EQUAL TO OR MORE DETAILED THAN A 1:24000 MAP SHOWING THE LOCATION OF THE SITE OR THE STAND ALONE CONSTRUCTION; (A) THE LOCATION OF ALL PERENNIAL AND INTERMITTENT STREAMS AND OTHER WATER BODIES AS SHOWN ON A USGS TOPOGRAPHIC MAP, AND ALL OTHER PERENNIAL AND INTERMITTENT STREAMS AND OTHER WATER BODIES LOCATED DURING MANDATORY FIELD VERIFICATION; INTO WHICH THE STORM WATER IS DISCHARGED; AND (B) THE RECEIVING WATER AND/OR OUTFALL SAMPLING LOCATIONS. WHEN THE PERMITTEE HAS CHOSEN TO USE A USGS TOPOGRAPHIC MAP AND THE RECEIVING WATER(S) IS/NOT SHOWN ON THE USGS TOPOGRAPHIC MAP, THE LOCATION OF THE RECEIVING WATER(S) MUST BE HAND-DRAWN ON THE USGS TOPOGRAPHIC MAP FROM WHERE THE STORM WATER(S) ENTERS THE RECEIVING WATER(S) TO THE POINT WHERE THE RECEIVING WATER(S) COMBINES WITH THE FIRST BLUE LINE STREAM SHOWN ON THE USGS TOPOGRAPHIC MAP.
- (2). A WRITTEN NARRATIVE OF SITE SPECIFIC ANALYTICAL METHODS USED TO COLLECT, HANDLE AND ANALYZE THE SAMPLES INCLUDING QUALITY CONTROL AND ASSURANCE PROCEDURES. THIS NARRATIVE MUST INCLUDE PRECISE SAMPLING METHODOLOGY FOR EACH SAMPLING LOCATION.
- (3). WHEN THE PERMITTEE HAS DETERMINED THAT SOME OR ALL OUTFALLS WILL BE SAMPLED, A RATIONALE MUST BE INCLUDED ON THE PLAN FOR THE NTU LIMIT(S) SELECTED FROM APPENDIX B. THIS RATIONALE MUST INCLUDE THE SIZE OF THE CONSTRUCTION SITE, THE CALCULATION OF THE SIZE OF THE SURFACE WATER DRAINAGE AREA, AND THE TYPE OF RECEIVING WATER(S) (I.E., TROUT STREAM OR SUPPORTING WARM WATER FISHERIES); AND
- (4). ANY ADDITIONAL INFORMATION EPD DETERMINES NECESSARY TO BE PART OF THE PLAN. EPD WILL PROVIDE WRITTEN NOTICE TO THE PERMITTEE OF THE INFORMATION NECESSARY AND THE TIME LINE FOR SUBMITTAL.

B. SAMPLE TYPE. ALL SAMPLING SHALL BE COLLECTED 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 (UNLESS THE ABOVE TEST PROCEDURES HAVE BEEN APPROVED BY 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.

- (1). SAMPLE CONTAINERS SHOULD NOT BE LABELED PRIOR TO COLLECTING THE SAMPLES.
- (2). SAMPLES SHOULD BE WELL MIXED BEFORE TRANSFERRING TO A SECONDARY CONTAINER.
- (3). LARGE MOUTH, WELL CLEANED AND RINSED GLASS OR PLASTIC JARS SHOULD BE USED FOR COLLECTING SAMPLES. THE JARS SHOULD BE CLEANED THOROUGHLY TO AVOID CONTAMINATION.
- (4). MANUAL, AUTOMATIC OR RISING STAGE SAMPLING MAY BE UTILIZED. SAMPLES REQUIRED BY THIS PERMIT SHOULD BE ANALYZED IMMEDIATELY, BUT IN NO CASE LATER THAN 48 HOURS AFTER COLLECTION. HOWEVER, SAMPLES FROM AUTOMATIC SAMPLERS MUST BE COLLECTING 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 PERMITTEE 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.
- (5). SAMPLING AND ANALYSIS OF THE RECEIVING WATER(S) OR OUTFALLS BEYOND THE MINIMUM FREQUENCY STATED IN THIS PERMIT MUST BE REPORTED TO EPD AS SPECIFIED IN PART IV.E.

C. SAMPLING POINTS.

- (1). FOR CONSTRUCTION ACTIVITIES THE PRIMARY PERMITTEE MUST SAMPLE ALL RECEIVING WATER(S), OR ALL OUTFALL(S), OR A COMBINATION OF RECEIVING WATER(S) AND OUTFALL(S). SAMPLES TAKEN FOR THE PURPOSE OF COMPLIANCE WITH THIS PERMIT SHALL BE REPRESENTATIVE OF THE MONITORED ACTIVITY AND REPRESENTATION OF THE WATER QUALITY OF THE RECEIVING WATER(S) AND/OR THE STORM WATER OUTFALLS USING THE FOLLOWING MINIMUM GUIDELINES:
 - (A) THE UPSTREAM SAMPLE FOR EACH RECEIVING WATER(S) MUST BE TAKEN IMMEDIATELY UPSTREAM OF THE CONFLUENCE OF STORM WATER FROM THE FURTHEST UPSTREAM OF ANY DISCHARGE ACTIVITIES UPSTREAM AT THE SITE; BUT DOWNSTREAM OF ANY OTHER STORM WATER DISCHARGE NOT ASSOCIATED WITH THE PERMITTED ACTIVITY, WHERE APPROPRIATE. SEVERAL UPSTREAM SAMPLES FROM ACROSS THE RECEIVING WATER(S) 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 FOR EACH RECEIVING WATER(S) MUST BE TAKEN DOWNSTREAM OF THE CONFLUENCE OF THE LAST STORM WATER DISCHARGE FROM THE PERMITTED ACTIVITY (I.E., THE DISCHARGE FARTHEST DOWNSTREAM AT THE SITE) BUT UPSTREAM OF ANY OTHER STORM WATER DISCHARGE NOT ASSOCIATED WITH THE PERMITTED ACTIVITY, WHERE APPROPRIATE. SEVERAL DOWNSTREAM SAMPLES FROM ACROSS THE RECEIVING WATER(S) MAY NEED TO BE TAKEN AND THE ARITHMETIC AVERAGE OF THE TURBIDITY OF THESE SAMPLES USED FOR THE DOWNSTREAM TURBIDITY VALUE.
- (2). IDEALLY THE SAMPLES SHOULD BE TAKEN FROM THE HORIZONTAL AND VERTICAL CENTER OF THE RECEIVING WATER(S) OR THE STORM WATER OUTFALL CHANNEL(S).
- (3). CARE SHOULD BE TAKEN TO AVOID STIRRING THE BOTTOM SEDIMENTS IN THE RECEIVING WATER(S) OR IN THE OUTFALL STORM WATER CHANNEL.
- (4). THE SAMPLING CONTAINER SHOULD BE HELD SO THAT THE OPENING FACES UPSTREAM.
- (5). THE SAMPLES SHOULD BE KEPT FRESH FROM FLOATING DEBRIS.
- (6). PERMITTEES DO NOT HAVE TO SAMPLE SHEETFLOW THAT FLOWS ONTO UNDISTURBED NATURAL AREAS OR AREAS STABILIZED BY THE PROJECT. FOR PURPOSES OF THIS SECTION, STABILIZED SHALL MEAN, FOR UNPAVED AREAS AND AREAS NOT COVERED BY PERMANENT STRUCTURES AND AREAS LOCATED OUTSIDE THE WASTE DISPOSAL LIMITS OF A LANDFILL CELL THAT HAS BEEN CERTIFIED BY EPD FOR WASTE DISPOSAL, 100% OF THE SOIL SURFACE IS UNIFORMLY COVERED IN PERMANENT VEGETATION WITH A DENSITY OF 70% OR GREATER, OR LANDSCAPED OR OTHERWISE COVERED WITH LANDSCAPING MATERIALS IN PLANNED LANDSCAPED AREAS, OR EQUIVALENT PERMANENT STABILIZATION MEASURES AS DEFINED IN THE MANUAL (EXCLUDING A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET PERENNIALS APPROPRIATE TO THE REGION).
- (7). ALL SAMPLING PURSUANT TO THIS PERMIT MUST BE DONE IN SUCH A WAY (INCLUDING GENERALLY ACCEPTED SAMPLING METHODS, LOCATIONS, TIMING, AND FREQUENCY) AS TO ACCURATELY REFLECT WHETHER STORM WATER RUNOFF FROM THE CONSTRUCTION SITE IS IN COMPLIANCE WITH THE STANDARD SET FORTH IN PARTS III.D.3. OR III.D.4., WHICHEVER IS APPLICABLE.

D. 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 A MONITORED 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 EXCEEDS 0.5 INCH WITH A STORM WATER DISCHARGE THAT OCCURS DURING NORMAL BUSINESS HOURS AS DEFINED IN THIS PERMIT 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 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 AS DEFINED BY THIS PERMIT 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 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 REACHES OR EXCEEDS 0.5 INCH DURING NORMAL BUSINESS HOURS' UNTIL THE SELECTED TURBIDITY STANDARD IS ATTAINED, OR UNTIL POST-STORE 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.(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 ARE OCCURRING ON OR BEFORE THE EFFECTIVE DATE OF THIS PERMIT, THAT HAVE MET THE SAMPLING REQUIREMENTS BY (A) ABOVE SHALL SAMPLE IN ACCORDANCE WITH (B). THOSE EXISTING CONSTRUCTION ACTIVITIES THAT HAVE MET THE SAMPLING REQUIREMENTS BY (B) ABOVE SHALL NOT BE REQUIRED TO CONDUCT ADDITIONAL SAMPLING OTHER THAN AS REQUIRED BY (C) ABOVE.

*NOTE THAT THE PERMITTEE MAY CHOOSE TO MEET THE REQUIREMENTS OF (A), (B) AND (C) ABOVE BY COLLECTING TURBIDITY SAMPLES FROM ANY RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH AND ALLOWS FOR SAMPLING AT ANY TIME OF THE DAY OR WEEK.

7. NON-STORM WATER DISCHARGES. EXCEPT FOR FLOWS FROM FIRE FIGHTING ACTIVITIES, SOURCES OF NON-STORM WATER LISTED IN PART III.A.2. OF THIS PERMIT THAT ARE COMBINED WITH STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY MUST BE IDENTIFIED IN THE PLAN. THE PLAN SHALL IDENTIFY AND ENSURE THE IMPLEMENTATION OF APPROPRIATE POLLUTION PREVENTION MEASURES FOR THE NON-STORM WATER COMPONENT(S) OF THE DISCHARGE.

E. REPORTING.

- 1. THE APPLICABLE PERMITTEES ARE REQUIRED TO SUBMIT THE SAMPLING RESULTS TO THE EPD AT THE ADDRESS SHOWN IN PART I.C. 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 STORM WATER DISCHARGE BEYOND THE MINIMUM FREQUENCY STATED IN THIS PERMIT MUST BE REPORTED IN A SIMILAR MANNER TO THE EPD. THE SAMPLING REPORTS MUST BE SIGNED IN ACCORDANCE WITH PART V.G.2. 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.

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 ACCORDING TO THE SCHEDULE IN APPENDIX X 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.

F. 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;
 - 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 THE EPD, 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 ALTERNATE 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.

PART V. STANDARD PERMIT CONDITIONS

A. DUTY TO COMPLY.

- 1. EACH PERMITTEE MUST COMPLY WITH ALL APPLICABLE CONDITIONS OF THIS PERMIT. ANY PERMIT NONCOMPLIANCE CONSTITUTES A VIOLATION OF THE GEORGIA WATER QUALITY CONTROL ACT (O.C.G.A. §§12-20, ET SEQ.) AND ITS GROUNDS FOR ENFORCEMENT ACTION, FOR PERMIT TERMINATION, OR FOR DENIAL OF A PERMIT RENEWAL APPLICATION. FAILURE OF A PRIMARY PERMITTEE TO COMPLY WITH ANY APPLICABLE TERM OR CONDITION OF THIS PERMIT SHALL NOT RELIEVE ANY OTHER PRIMARY PERMITTEE FROM COMPLIANCE WITH THEIR APPLICABLE TERMS AND CONDITIONS OF THIS PERMIT.
- 2. EACH PERMITTEE MUST DOCUMENT IN THEIR RECORDS ANY AND ALL KNOWN VIOLATIONS OF THIS PERMIT AT HIS/HER SITE WITHIN SEVEN (7) DAYS OF HIS/HER KNOWLEDGE OF THE VIOLATION. A SUMMARY OF THESE VIOLATIONS MUST BE SUBMITTED TO EPD BY THE PERMITTEE TO THE ADDRESS SHOWN IN PART I.C. WITHIN FOURTEEN (14) DAYS OF HIS/HER DISCOVERY OF THE VIOLATION.
- 3. PENALTIES FOR VIOLATIONS OF PERMIT CONDITIONS. THE FEDERAL CLEAN WATER ACT AND THE GEORGIA WATER QUALITY CONTROL ACT (O.C.G.A. §§12-20, ET SEQ.) PROVIDE THAT ANY PERSON WHO FALSIFIES, TAMPERS WITH, OR KNOWINGLY READERS INACCURATE ANY MONITORING DEVICE OR METHOD REQUIRED TO BE MAINTAINED UNDER THIS PERMIT, MAKES ANY FALSE STATEMENT, REPRESENTATION, OR CERTIFICATION IN ANY RECORD OR OTHER DOCUMENT SUBMITTED OR REQUIRED TO BE MAINTAINED UNDER THIS PERMIT, INCLUDING MONITORING REPORTS OR REPORTS OF COMPLIANCE OR NONCOMPLIANCE SHALL, UPON CONVICTION BE PUNISHED BY A FINE OR BY IMPRISONMENT, OR BY BOTH. THE FEDERAL CLEAN WATER ACT AND THE GEORGIA WATER QUALITY CONTROL ACT ALSO PROVIDE PROCEDURES FOR IMPOSING CIVIL PENALTIES WHICH MAY BE LEVIED FOR VIOLATIONS OF THE ACTS, ANY PERMIT CONDITION OR LIMITATION ESTABLISHED PURSUANT TO THE ACTS, OR NEGLIGENTLY OR INTENTIONALLY FAILING OR REFUSING TO COMPLY WITH ANY FINAL OR EMERGENCY ORDER OF THE DIRECTOR.

B. CONTINUATION OF THE EXPIRED GENERAL PERMIT. THIS PERMIT EXPIRES ON THE DATE SHOWN ON THE COVER PAGE OF THIS PERMIT. HOWEVER, AN EXPIRED GENERAL PERMIT CONTINUES IN FORCE AND EFFECT UNTIL A NEW GENERAL PERMIT IS ISSUED, FINAL AND EFFECTIVE.

C. NEED TO HALT OR REDUCE ACTIVITY NOT A DEFENSE. IT SHALL NOT BE A DEFENSE FOR THE PERMITTEE IN AN ENFORCEMENT ACTION THAT IT WOULD HAVE BEEN NECESSARY TO HALT OR REDUCE THE PERMITTED ACTIVITY IN ORDER TO MAINTAIN COMPLIANCE WITH THE CONDITIONS OF THIS PERMIT.

D. DUTY TO MITIGATE. THE PERMITTEE SHALL TAKE ALL REASONABLE STEPS TO MINIMIZE OR PREVENT ANY DISCHARGE IN VIOLATION OF THIS PERMIT WHICH HAS A REASONABLE LIKELIHOOD OF ADVERSELY AFFECTING HUMAN HEALTH OR THE ENVIRONMENT.

E. DUTY TO PROVIDE INFORMATION. THE PERMITTEE SHALL FURNISH TO THE DIRECTOR, A STATE OR LOCAL AGENCY APPROVING SOIL EROSION AND SEDIMENTATION CONTROL PLANS, GRADING PLANS, OR STORM WATER MANAGEMENT PLANS, OR IN THE CASE OF A STORM WATER DISCHARGE ASSOCIATED WITH CONSTRUCTION ACTIVITY WHICH DISCHARGES THROUGH A MUNICIPAL SEPARATE STORM SEWER SYSTEM WITH AN NPDES PERMIT, THE LOCAL GOVERNMENT OPERATING THE MUNICIPAL SEPARATE STORM SEWER SYSTEM, ANY INFORMATION WHICH IS REQUESTED TO DETERMINE COMPLIANCE WITH THIS PERMIT. IN THE CASE OF INFORMATION SUBMITTED TO THE EPD SUCH INFORMATION SHALL BE CONSIDERED PUBLIC INFORMATION AND AVAILABLE UNDER THE GEORGIA OPEN RECORDS ACT.

F. OTHER INFORMATION. WHEN THE PERMITTEE BECOMES AWARE THAT HE FAILED TO SUBMIT ANY RELEVANT FACTS OR SUBMITTED INCORRECT INFORMATION IN THE NOTICE OF INTENT OR IN ANY OTHER REPORT REQUIRED TO BE SUBMITTED TO THE EPD, THE PERMITTEE SHALL PROMPTLY SUBMIT SUCH FACTS OR INFORMATION.

G. SIGNATORY REQUIREMENTS. ALL NOTICES OF INTENT, NOTICE OF TERMINATIONS, INSPECTION REPORTS, SAMPLING REPORTS OR OTHER REPORTS REQUESTED BY THE EPD SHALL BE SIGNED AS FOLLOWS:

- 1. ALL NOTICES OF INTENT AND NOTICES OF TERMINATION SHALL BE SIGNED AS FOLLOWS:
 - a. FOR A CORPORATION, BY A RESPONSIBLE CORPORATE OFFICER, FOR THE PURPOSE OF THIS PERMIT, A RESPONSIBLE CORPORATE OFFICER MEANS: (1) A PRESIDENT, SECRETARY, TREASURER, OR VICE-PRESIDENT OF THE CORPORATION IN CHARGE OF A PRINCIPAL BUSINESS FUNCTION; OR ANY OTHER PERSON WHO PERFORMS SIMILAR POLICY-OR DECISION-MAKING FUNCTIONS FOR THE CORPORATION; OR (2) THE MANAGER OF ONE OR MORE MANUFACTURING, PRODUCTION OR OPERATING FACILITIES PROVIDED THE MANAGER IS AUTHORIZED TO MAKE MANAGEMENT DECISIONS WHICH GOVERN THE OPERATION OF THE REGULATED FACILITY INCLUDING HAVING THE EXPLICIT OR IMPLICIT DUTY OF MAKING MAJOR CAPITAL INVESTMENT RECOMMENDATIONS, AND INITIATING AND DIRECTING OTHER COMPREHENSIVE OPERATIONAL DECISIONS WITH REGARD TO ENVIRONMENTAL COMPLIANCE WITH ENVIRONMENTAL LAWS AND REGULATIONS; THE MANAGER CAN ENSURE THE NECESSARY SYSTEMS ARE ESTABLISHED OR ACTIONS TAKEN TO GATHER COMPLETE AND ACCURATE INFORMATION FOR PERMIT APPLICATION REQUIREMENTS; AND WHERE AUTHORITY TO SIGN DOCUMENTS HAS BEEN ASSIGNED OR DELEGATED TO THE MANAGER IN ACCORDANCE WITH CORPORATE PROCEDURES;
 - b. FOR A PARTNERSHIP OR SOLE PROPRIETORSHIP: BY A GENERAL PARTNER OR THE PROPRIETOR, RESPECTIVELY; OR
 - c. FOR A MUNICIPALITY, STATE, FEDERAL, OR OTHER PUBLIC FACILITY: BY EITHER A PRINCIPAL EXECUTIVE OFFICER OR RANKING ELECTED OFFICIAL; AND
 - d. CHANGES TO AUTHORIZATION. IF AN AUTHORIZATION UNDER PART II.B. IS NO LONGER ACCURATE, A CHANGE OF INFORMATION NOT SATISFYING THE REQUIREMENTS OF PART II.B. MUST BE SUBMITTED TO THE EPD PRIOR TO OR TOGETHER WITH ANY INSPECTION

REPORTS, SAMPLING REPORTS, OR OTHER REPORTS REQUESTED BY THE EPD TO BE SIGNED BY A PERSON DESCRIBED ABOVE OR BY A DULY AUTHORIZED REPRESENTATIVE OF THAT PERSON.

2. ALL INSPECTION REPORTS, SAMPLING REPORTS, OR OTHER REPORTS REQUESTED BY THE EPD SHALL BE SIGNED BY A PERSON DESCRIBED ABOVE OR BY A DULY AUTHORIZED REPRESENTATIVE OF THAT PERSON. A PERSON IS A DULY AUTHORIZED REPRESENTATIVE ONLY IF:

- a. THE AUTHORIZATION IS MADE IN WRITING BY A PERSON(S) DESCRIBED ABOVE AND SUBMITTED TO THE EPD;
- b. THE AUTHORIZATION SPECIFIES EITHER AN INDIVIDUAL OR A POSITION HAVING RESPONSIBILITY FOR SPECIFIED OPERATION(S) OF THE REGULATED FACILITY OR ACTIVITY, SUCH AS THE POSITION OF MANAGER, OPERATOR, SUPERINTENDENT, OR POSITION OF EQUIVALENT RESPONSIBILITY OR AN INDIVIDUAL OR POSITION HAVING OVERALL RESPONSIBILITY FOR ENVIRONMENTAL MATTERS FOR THE COMPANY (A DULY AUTHORIZED REPRESENTATIVE MAY BE EITHER A NAMED INDIVIDUAL OR ANY INDIVIDUAL OCCUPYING A NAMED POSITION); AND
- c. CERTIFICATION. REPORTS DELINEATED IN PART V.G.2. SHALL BE SIGNED BY THE PERMITTEE OR DULY AUTHORIZED REPRESENTATIVE AND SHALL MAKE THE FOLLOWING CERTIFICATION:

"I CERTIFY UNDER PENALTY OF LAW THAT THIS REPORT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT CERTIFIED 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."

H. OIL AND HAZARDOUS SUBSTANCE LIABILITY. NOTHING IN THIS PERMIT SHALL BE CONSTRUED TO PRECLUDE THE INSTITUTION OF ANY LEGAL ACTION OR RELIEVE THE PERMITTEE FROM ANY RESPONSIBILITIES, LIABILITIES, OR PENALTIES TO WHICH THE PERMITTEE IS OR MAY BE SUBJECT UNDER THE GEORGIA HAZARDOUS WASTE MANAGEMENT ACT, O.C.G.A. § 12-8-40; ET SEQ. OR UNDER CHAPTER 14 OF TITLE 12 OF THE OFFICIAL CODE OF GEORGIA ANNOTATED, NOR TO RELIEVE THE OPERATOR FROM ANY RESPONSIBILITIES, LIABILITIES OR PENALTIES TO WHICH THE PERMITTEE IS OR MAY BE SUBJECT UNDER SECTION 311 OF THE CLEAN WATER ACT OR SECTION 106 OF COMPREHENSIVE ENVIRONMENTAL RESPONSE COMPENSATION AND LIABILITY ACT.

I. PROPERTY RIGHTS. THE ISSUANCE OF THIS PERMIT DOES NOT CONVEY ANY PROPERTY RIGHTS OF ANY SORT. NOR ANY EXCLUSIVE PRIVILEGES, NOR DOES IT AUTHORIZE ANY INJURY TO PRIVATE PROPERTY NOR ANY INVASION OF PERSONAL RIGHTS, NOR ANY INFRINGEMENT OF FEDERAL, STATE OR LOCAL LAWS OR REGULATIONS.

J. SEVERABILITY. THE PROVISIONS OF THIS PERMIT ARE SEVERABLE, AND IF ANY PROVISION OF THIS PERMIT, OR THE APPLICATION OF ANY PROVISION OF THIS PERMIT TO ANY CIRCUMSTANCE, IS HELD INVALID, THE APPLICATION OF SUCH PROVISION TO OTHER CIRCUMSTANCES, AND THE REMAINDER OF THIS PERMIT SHALL NOT BE AFFECTED.

K. OTHER APPLICABLE ENVIRONMENTAL REGULATIONS AND LAWS. NOTHING IN THIS PERMIT SHALL BE CONSTRUED TO PRECLUDE THE INSTITUTION OF ANY LEGAL ACTION OR RELIEVE THE PERMITTEE FROM ANY RESPONSIBILITIES, LIABILITIES, OR PENALTIES ESTABLISHED PURSUANT TO ANY APPLICABLE STATE LAW OR REGULATION UNDER AUTHORITY PRESERVED BY SECTION 510 OF THE CLEAN WATER ACT. NOTHING IN THIS PERMIT, UNLESS EXPLICITLY STATED, EXEMPTS THE PERMITTEE FROM COMPLIANCE WITH OTHER APPLICABLE LOCAL, STATE AND FEDERAL ORDINANCES, RULES, REGULATIONS, AND LAWS. FURTHERMORE, IT IS NOT A DEFENSE TO COMPLIANCE WITH THIS PERMIT THAT A LOCAL GOVERNMENT AUTHORITY HAS APPROVED THE PERMITTEE'S EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN OR FAILED TO TAKE ENFORCEMENT ACTION AGAINST THE PERMITTEE FOR VIOLATIONS OF THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN, OR OTHER PROVISIONS OF THIS PERMIT.

NO CONDITION OF THIS PERMIT SHALL RELEASE THE PERMITTEE FROM ANY RESPONSIBILITY OR REQUIREMENTS UNDER OTHER ENVIRONMENTAL STATUTES OR REGULATIONS.

L. PROPER OPERATION AND MAINTENANCE. THE PERMITTEE SHALL AT ALL TIMES PROPERLY OPERATE AND MAINTAIN ALL FACILITIES AND SYSTEMS OF TREATMENT AND CONTROL (AND RELATED APPURTENANCES) WHICH ARE INSTALLED OR USED BY THE PERMITTEE TO ACHIEVE COMPLIANCE WITH THE CONDITIONS OF THIS PERMIT AND WITH THE REQUIRED PLANS. PROPER OPERATION AND MAINTENANCE ALSO INCLUDES ADEQUATE LABORATORY CONTROLS AND APPROPRIATE QUALITY CONTROL PROCEDURES. PROPER OPERATION AND MAINTENANCE REQUIRES THE OPERATION OF BACKUP OR AUXILIARY FACILITIES OR SIMILAR SYSTEMS, INSTALLED BY A PERMITTEE ONLY WHEN NECESSARY TO ACHIEVE COMPLIANCE WITH THE CONDITIONS OF THE PERMIT.

M. INSPECTION AND ENTRY. THE PERMITTEE SHALL ALLOW THE DIRECTOR OR AN AUTHORIZED REPRESENTATIVE OF EPA, EPD OR TO DESIGNATED OFFICIALS OF THE LOCAL GOVERNMENT REVIEWING SOIL EROSION AND SEDIMENT CONTROL PLANS, GRADING PLANS, OR STORM WATER MANAGEMENT PLANS; OR, IN THE CASE OF A CONSTRUCTION SITE WHICH DISCHARGES THROUGH A MUNICIPAL SEPARATE STORM SEWER SYSTEM, AN AUTHORIZED REPRESENTATIVE OF THE MUNICIPAL OPERATOR OF THE SEPARATE STORM SEWER SYSTEM RECEIVING THE DISCHARGE, UPON THE PRESENTATION OF CREDENTIALS AND OTHER DOCUMENTS AS MAY BE REQUIRED BY LAW, TO:

- 1. ENTER UPON THE PERMITTEE'S PREMISES WHERE A REGULATED FACILITY OR ACTIVITY IS LOCATED OR CONDUCTED OR WHERE RECORDS MUST BE KEPT UNDER THE CONDITIONS OF THIS PERMIT; AND
- 2. HAVE ACCESS TO AND COPY AT REASONABLE TIMES, ANY RECORDS THAT MUST BE KEPT UNDER THE CONDITIONS OF THIS PERMIT; AND
- 3. INSPECT AT REASONABLE TIMES ANY FACILITIES OR EQUIPMENT (INCLUDING MONITORING AND CONTROL EQUIPMENT).

N. PERMIT ACTIONS. THIS PERMIT MAY BE REVOKED AND REISSUED, OR TERMINATED FOR CAUSE INCLUDING BUT NOT LIMITED TO CHANGES IN THE LAW OR REGULATIONS. THE FILING OF A REQUEST BY THE PERMITTEE FOR TERMINATION OF THE PERMIT, OR A NOTIFICATION OF PLANNED CHANGES OR ANTICIPATED NONCOMPLIANCE, DOES NOT STAY ANY PERMIT CONDITION.

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 ON-SITE VEHICLE AND MACHINERY DAILY INSPECTIONS AND REGULAR PREVENTATIVE MAINTENANCE OF SUCH EQUIPMENT. EQUIPMENT MAINTENANCE AREAS WILL BE LOCATED AWAY FROM STATE WATER, NATURAL DRAINS AND STORM WATER DRAINAGE INLETS. IN ADDITION, TEMPORARY FUELING TANKS AND OTHER CONTAINMENT LINES TO PREVENT FUEL OILS FROM LEAKING INTO 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.

CONCRETE TRUCK WASHING - NO CONCRETE TRUCKS WILL BE ALLOWED TO WASH OUT OR DISCHARGE SURPLUS CONCRETE OR DRUM WASH WATER ONSITE.

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.

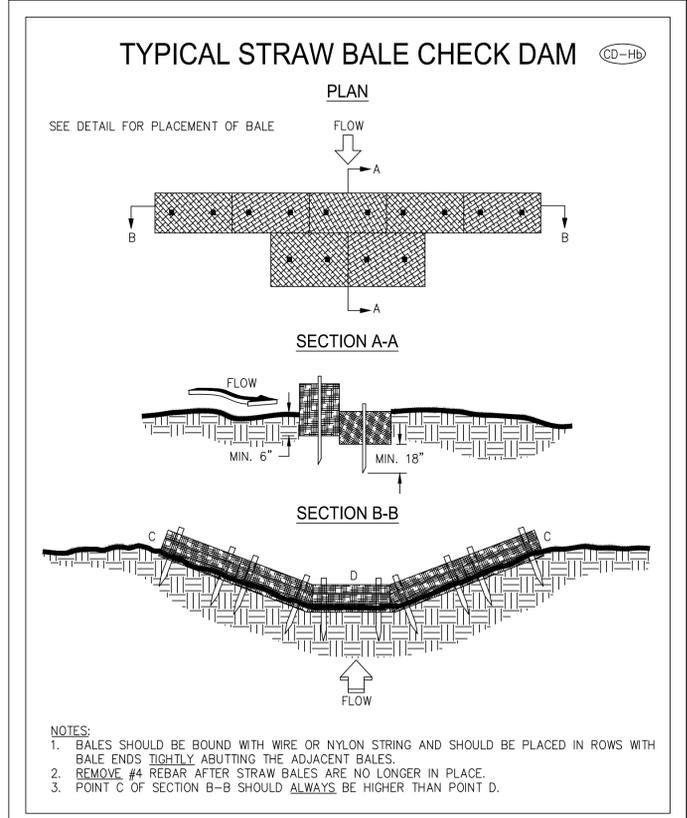
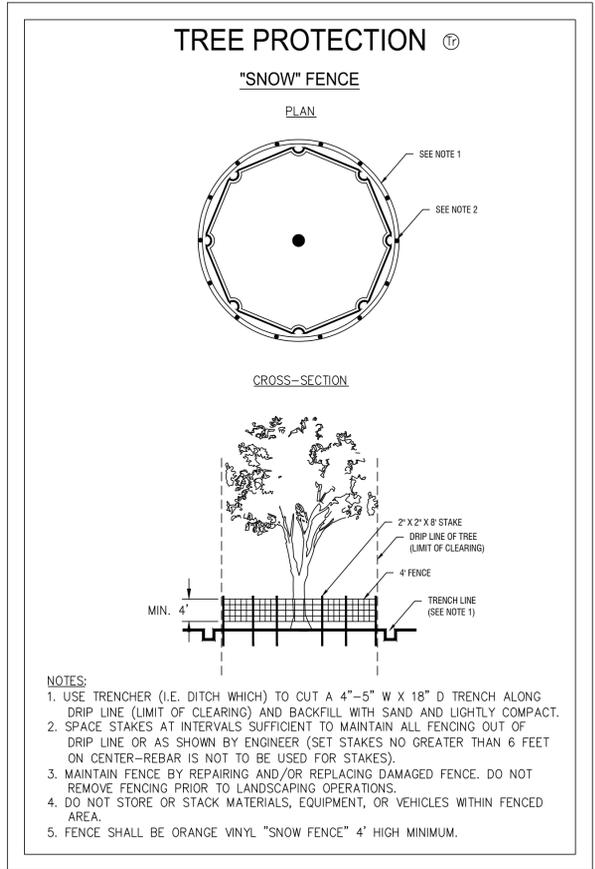
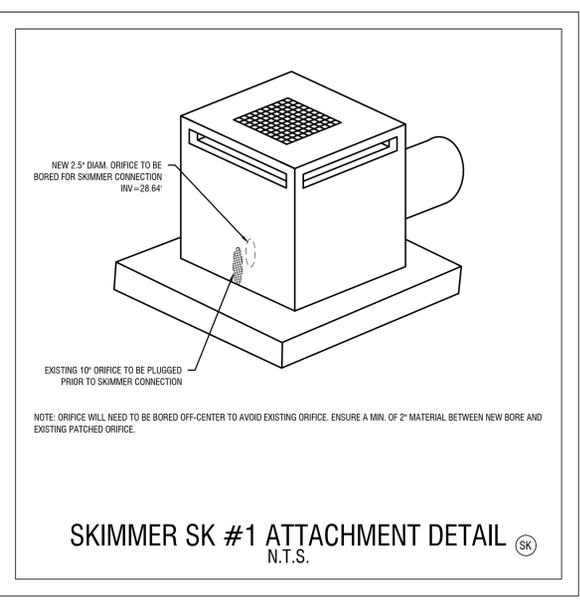
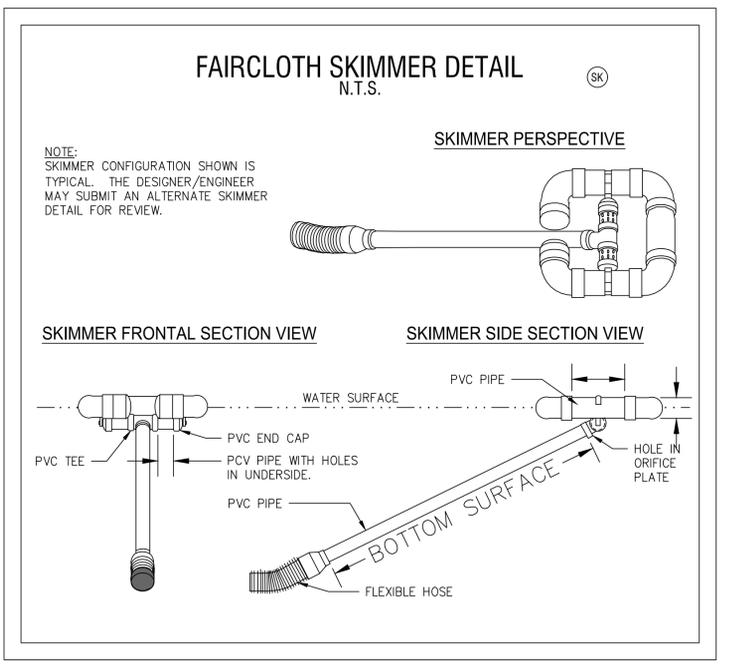
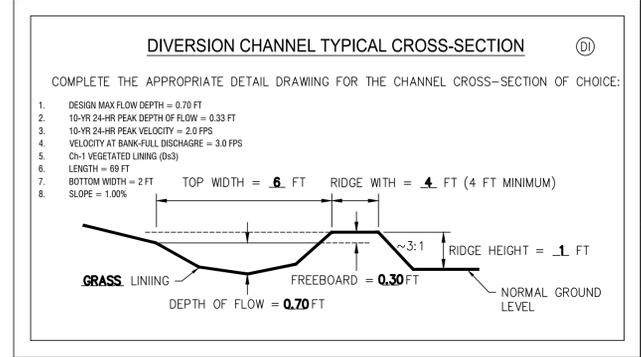
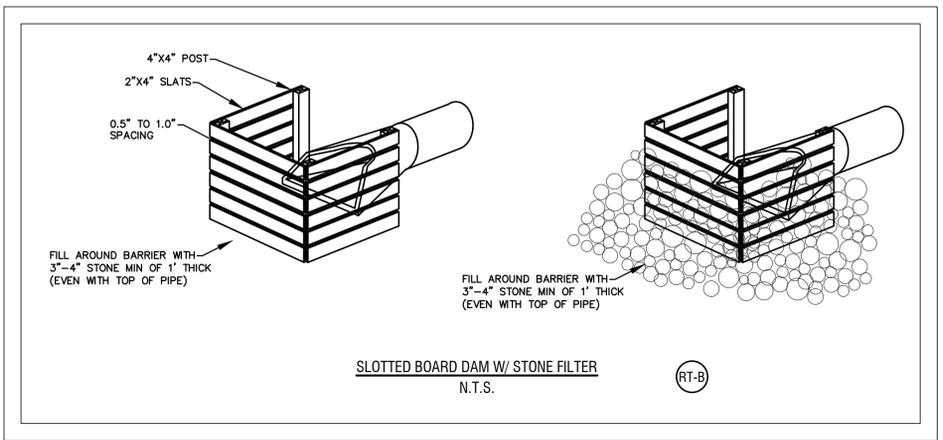
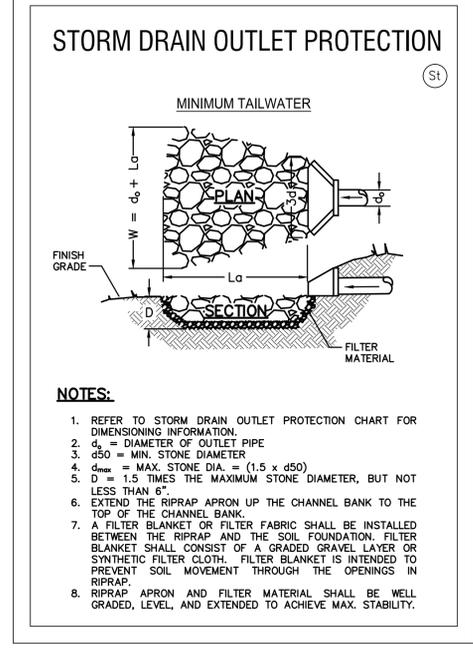
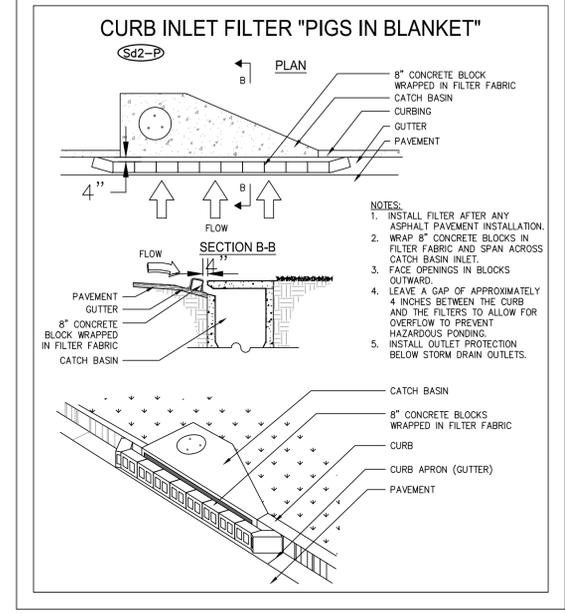
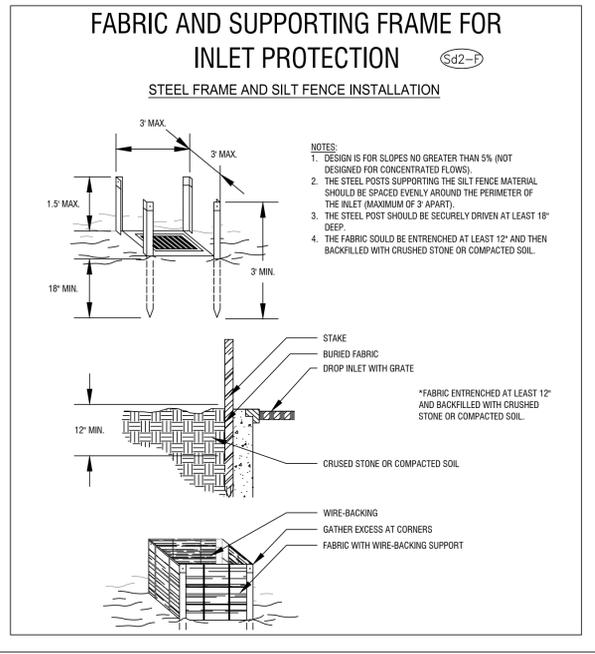
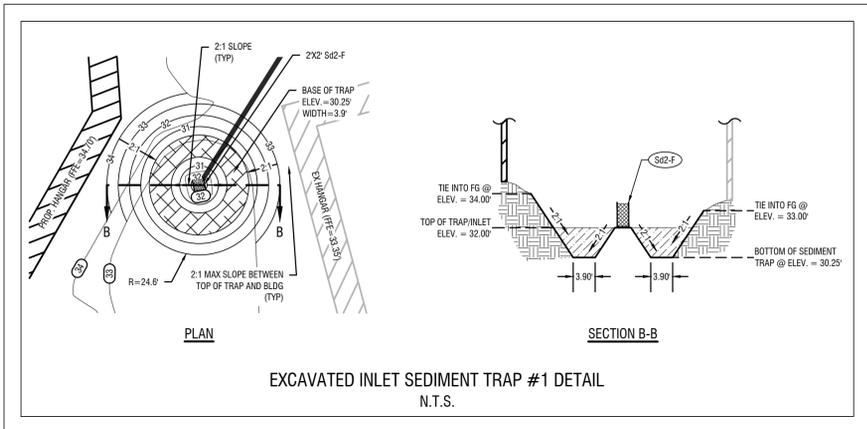
NO WASTE WILL BE DISPOSED OF INTO STORM WATER INLETS OR WATERS OF THE STATE.

WASTE MATERIALS ALL WASTE MATERIALS WILL BE COLLECTED AND STORED IN A SECURELY LABELED METAL DUMPSTER. THE DUMPSTER WILL MEET ALL SOLID WASTE MANAGEMENT REGULATIONS. ALL TRASH AND CONSTRUCTION DEBRIS FROM THE SITE WILL BE DEPOSITED IN THE DUMPSTER. THE DUMPSTER WILL BE EMPLOYED AT A MINIMUM OF ONCE PER WEEK OR MORE OFTEN IF NECESSARY AND TRASH WILL BE HAULED AS REQUIRED BY LOCAL REGULATIONS. NO CONSTRUCTION WASTE WILL BE BURIED ONSITE. ALL PERSONNEL WILL BE INSTRUCTED ON PROPER PROCEDURES FOR WASTE DISPOSAL. A NOTICE STATING THESE PRACTICES WILL BE POSTED AT THE JOBSITE AND THE CONTRACTOR WILL BE RESPONSIBLE FOR SEEING THAT THESE PROCEDURES ARE FOLLOWED.

HAZARDOUS WASTES ALL HAZARDOUS WASTE MATERIALS WILL BE DISPOSED OF IN THE MANNER SPECIFIED BY LOCAL, STATE, AND/OR FEDERAL REGULATIONS AND BY THE MANUFACTURER OF SUCH PRODUCTS. THE JOB SITE SUPERINTENDENT, WHO WILL ALSO BE RESPONSIBLE FOR SEEING THAT THESE PRACTICES ARE FOLLOWED BY PERSONNEL IN THESE ACTIVITIES, WILL BE REQUIRED TO PREPARE MSDS (MATERIAL SAFETY DATA SHEETS (MSDS)) FOR EACH SUBSTANCE WITH HAZARDOUS PROPERTIES THAT IS USED ON THE JOB SITE WILL BE OBTAINED AND USED FOR THE PROPER MANAGEMENT OF POTENTIAL WASTES THAT MAY RESULT FROM THESE PRODUCTS. AN MSDS WILL BE POSTED IN THE IMMEDIATE AREA WHERE SUCH PRODUCT IS USED AND ANOTHER COPY OF EACH MSDS WILL BE MAINTAINED IN THE ESCOP FILE AT THE JOB SITE CONSTRUCTION TRAILER OFFICE. EACH EMPLOYEE WHO MUST HANDLE A SUBSTANCE WITH HAZARDOUS PROPERTIES WILL BE INSTRUCTED ON THE USE OF MSDS SHEETS AND THE SPECIFIC INFORMATION IN THE APPLICABLE MSDS FOR THE PRODUCT HE/SHE IS USING, PARTICULARLY REGARDING SPILL CONTROL TECHNIQUES. THE CONTRACTOR WILL IMPLEMENT THE SPILL PREVENTION CONTROL AND CONTAINMENT PROCEDURES AND APPROPRIATE TRAINING PROCEDURES. THE CONTRACTOR WILL BE RESPONSIBLE FOR THE PROPER HANDLING OF SPILLED MATERIALS. NO SPILLED HAZARDOUS MATERIALS OR HAZARDOUS WASTES WILL BE ALLOWED TO COME IN CONTACT WITH STORMWATER DISCHARGES. IF SUCH CONTACT OCCURS, THE STORMWATER DISCHARGE WILL BE CONTAINED ON SITE UNTIL APPROPRIATE MEASURES ARE TAKEN TO COMPLY WITH FEDERAL REGULATIONS AND TO DISPOSE OF SUCH CONTAMINATED STORMWATER. IT SHALL BE THE RESPONSIBILITY OF THE JOB SITE SUPERINTENDENT TO PROPERLY TRAIN ALL PERSONNEL IN THE USE OF THE SPPC PLAN.

SANITARY WASTES A MINIMUM OF ONE PORTABLE SANITARY UNIT WILL BE PROVIDED FOR EVERY TEN (10) WORKERS ON THE SITE. ALL SANITARY WASTE WILL BE COLLECTED FROM THE PORTABLE UNITS AT A MINIMUM OF ONE TIME PER WEEK BY A LICENSED PORTABLE FACILITY PROVIDER IN COMPLETE COMPLIANCE WITH LOCAL AND STATE REGULATIONS. ALL SANITARY WASTE UNITS WILL BE LOCATED IN ONE AREA WHERE THE LIKELIHOOD OF THE UNIT CONTRIBUTING TO STORM WATER DISCHARGE IS NEGLIGIBLE. ADDITIONAL CONTAINMENT BMPs MUST BE IMPLEMENTED, SUCH AS GRAVEL BAGS OR SPECIALLY DESIGNED PLASTIC BOD CONTAINERS AROUND THE BASE, TO PREVENT WASTES FROM CONTRIBUTING TO STORM WATER DISCHARGES. THE LOCATION OF SANITARY WASTE UNITS MUST BE IDENTIFIED ON THE EROSION CONTROL PLAN GRADING SHEET, SHEET C-48. BY THE CONTRACTOR ONCE THE LOCATIONS HAVE BEEN DETERMINED. SANITARY SEWER WILL BE PROVIDED BY MUNICIPAL AUTHORITY/SEPTIC SYSTEM AT THE COMPLETION OF THIS PROJECT.

FOR BUILDING MATERIALS, BUILDING PRODUCTS, CONSTRUCTION WASTES, TRASH, LANDSCAPE MATERIALS, FERTILIZERS, PESTICIDES, HERBICIDES, DETER



REVISIONS:

1.	GSWCC COMMENTS
2.	ADDENDUM 1

DRAWING COMPLETED BY: LEGAL REVIEW

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DESIGN PROFESSIONAL:
MARCUS E. SACK
GSWCC LEVEL II # 70248
EXPIRES: 06/14/2026
MARCUS@MESACK.COM

515 NORTH MAIN STREET
P.O. BOX 649
HINESVILLE, GA 31313
TEL: (912) 368-5212

GEORGIA REGISTERED PROFESSIONAL ENGINEER
MARCUS E. SACK
DATE: 12/23/2023

M.E. SACK ENGINEERING

MUNICIPALITY:
LIBERTY COUNTY

COUNTY:
LIBERTY COUNTY

OWNER:
MIDCOAST JMB
112 N MAIN ST
HINESVILLE, GA 31313
(912) 876-2164

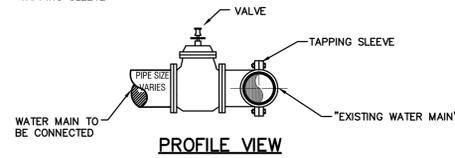
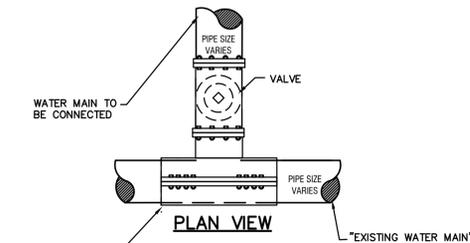
24 HOUR CONTACT:
JOEY BROWN
112 N MAIN ST
HINESVILLE, GA 31313
(912) 876-2164
JOEY.BROWN@LIBERTYCOUNTYGA.COM

MCRA Drainage Improvements

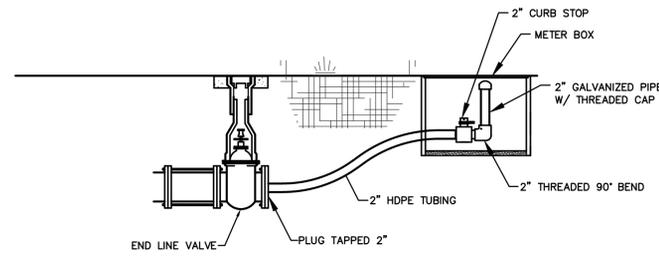
DETAILS

C502

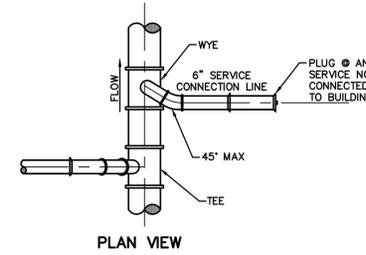
FILE NO: 2022-51
PLOT DATE: December 29, 2023



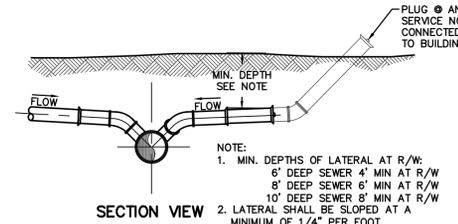
TAPPING SLEEVE FOR CONNECTION TO EXISTING WATER MAIN DETAIL



2" BLOW-OFF ASSEMBLY
N.T.S.



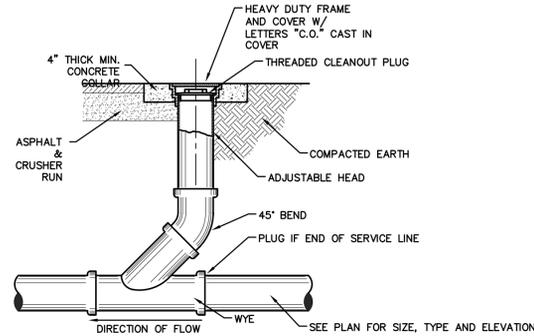
PLAN VIEW



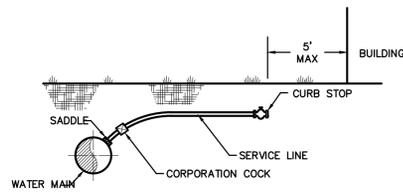
SECTION VIEW

SEWER SERVICE CONNECTION DETAIL
N.T.S.

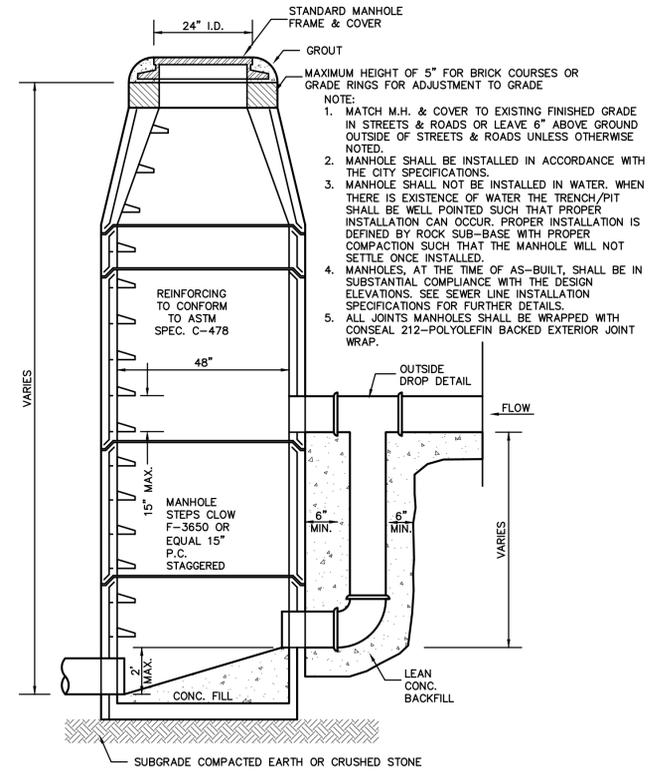
- NOTE:
1. MIN. DEPTHS OF LATERAL AT R/W:
6' DEEP SEWER 4' MIN AT R/W
8' DEEP SEWER 6' MIN AT R/W
10' DEEP SEWER 8' MIN AT R/W
 2. LATERAL SHALL BE SLOPED AT A MINIMUM OF 1/4" PER FOOT.
 3. SURFACE RESTORATION ON ALL SERVICE LATERALS MUST BE DONE DAILY TO INCLUDE MULCHING AND GRASSING.



CLEANOUT DETAIL
N.T.S.



WATER SERVICE DETAIL
N.T.S.



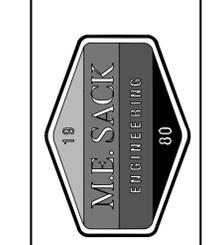
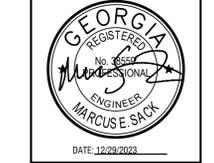
PRECAST CONCRETE MANHOLE

N.T.S.

REVISIONS:

1.	GSWCC COMMENTS
2.	ADDENDUM 1

DESIGN PROFESSIONAL:
MARCUS E. SACK
GSWCC LEVEL II # 70248
EXPIRES: 06/14/2026
MARCUS@MESACK.COM



MUNICIPALITY:
LIBERTY COUNTY

COUNTY:
LIBERTY COUNTY

OWNER:
MIDCOAST JMB
112 N MAIN ST
HINESVILLE, GA 31313
(912) 876-2164

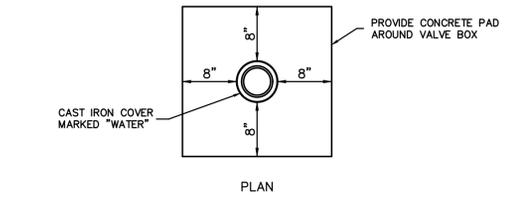
24 HOUR CONTACT:
JOEY BROWN
112 N MAIN ST
HINESVILLE, GA 31313
(912) 876-2164
JOEY.BROWN@LIBERTYCOUNTYGA.COM

**MCRA
Drainage
Improvements**

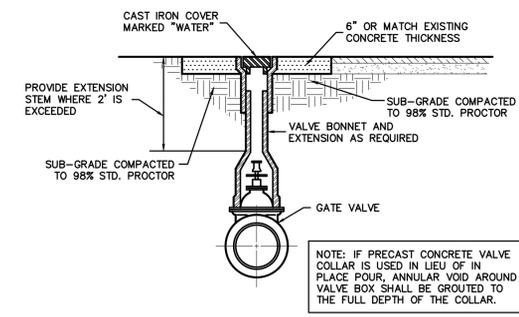
DETAILS

C503

FILE NO: 2022-51
PLOT DATE: December 29, 2023



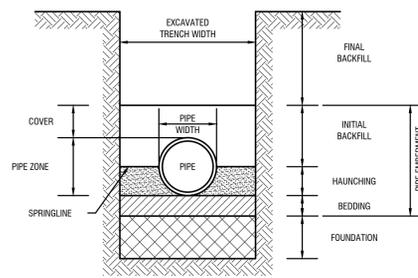
PLAN



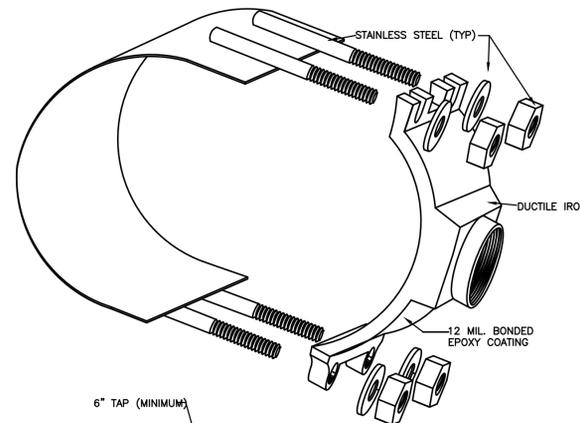
ELEVATION

VALVE BOX DETAIL
N.T.S.

NOTE: IF PRECAST CONCRETE VALVE COLLAR IS USED IN LIEU OF IN PLACE POUR, ANNULAR VOID AROUND VALVE BOX SHALL BE GROUTED TO THE FULL DEPTH OF THE COLLAR.



PIPE BEDDING DETAIL
N.T.S.

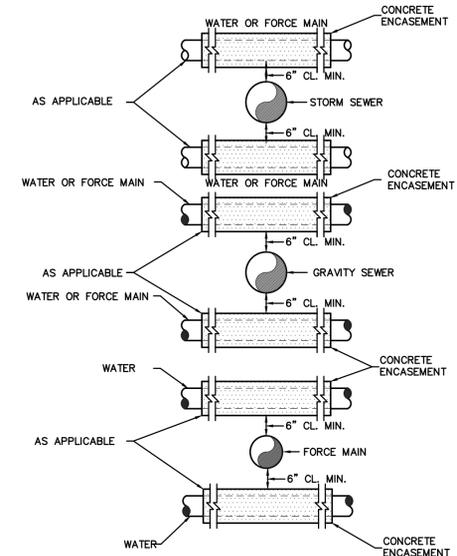


6" WATER TAPPING SADDLE

N.T.S.

NOTES:

1. TAPPING SADDLE TO BE DUCTILE IRON WITH TYPE 304 STAINLESS STEEL FORGED DOUBLE STRAPS, STAINLESS STEEL BOLTS, NUTS, AND WASHERS. FINISH IS FUSION BONDED EPOXY TO AVERAGE THICKNESS OF 12-MILS.
2. A VALVE BOX SHALL BE USED FOR 6" CORPORATION STOPS. INSTALL PER DETAIL W4.



SEPERATION DETAIL

N.T.S.

NOTES:

1. CONCRETE ENCASUREMENT TO EXTEND A MINIMUM OF 10' ON BOTH SIDES OF CROSSING.
2. FOR ELEVATION OF PIPES, SEE PLANS.
3. CONCRETE ENCASUREMENT REQUIRED IF 18" VERTICAL SEPARATION IS NOT MAINTAINED.

NYLOPLAST 12" DRAIN BASIN: 2812AG __ X

(1, 2) INTEGRATED DUCTILE IRON FRAME & GRATE TO MATCH BASIN O.D.

(3) VARIABLE INVERT HEIGHTS AVAILABLE (ACCORDING TO PLANS/TAKE OFF)

MINIMUM PIPE BURIAL DEPTH PER PIPE MANUFACTURER RECOMMENDATION (MIN. MANUFACTURING REQ. SAME AS MIN. SUMP)

(5) ADAPTER ANGLES VARIABLE 0° - 360° ACCORDING TO PLANS

WATERTIGHT JOINT (CORRUGATED HDPE SHOWN)

(4) VARIOUS TYPES OF INLET & OUTLET ADAPTERS AVAILABLE: 4" - 12" FOR CORRUGATED HDPE (ADS N-12/HANCOR DUAL WALL, ADS/HANCOR SINGLE WALL), N-12 HP, PVC SEWER (EX: SDR 35), PVC DWV (EX: SCH 40), PVC C900/C905, CORRUGATED & RIBBED PVC

THE BACKFILL MATERIAL SHALL BE CRUSHED STONE OR OTHER GRANULAR MATERIAL MEETING THE REQUIREMENTS OF CLASS I, CLASS II, OR CLASS III MATERIAL AS DEFINED IN ASTM D2321. BEDDING & BACKFILL FOR SURFACE DRAINAGE INLETS SHALL BE PLACED & COMPACTED UNIFORMLY IN ACCORDANCE WITH ASTM D2321.

- 1 - GRATES/SOLID COVER SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05, WITH THE EXCEPTION OF THE BRONZE GRATE.
- 2 - FRAMES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05
- 3 - DRAIN BASIN TO BE CUSTOM MANUFACTURED ACCORDING TO PLAN DETAILS. RISERS ARE NEEDED FOR BASINS OVER 84" DUE TO SHIPPING RESTRICTIONS. SEE DRAWING NO. 7001-110-065
- 4 - DRAINAGE CONNECTION STUB JOINT TIGHTNESS SHALL CONFORM TO ASTM D3212 FOR CORRUGATED HDPE (ADS N-12/HANCOR DUAL WALL), N-12 HP, & PVC SEWER.
- 5 - ADAPTERS CAN BE MOUNTED ON ANY ANGLE 0° TO 360°. TO DETERMINE MINIMUM ANGLE BETWEEN ADAPTERS SEE DRAWING NO. 7001-110-012.

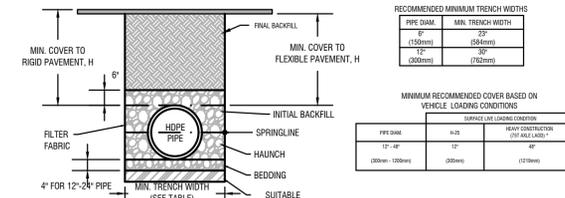
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DRAWN BY	EBC	MATERIAL	3130 VERONA AVE BUFORD, GA 30518 PHN (770) 932-2443 FAX (770) 932-2490 www.nyloplast-us.com
DATE	03-29-06	PROJECT NO./NAME	
REVISED BY	NMH	TITLE	12 IN DRAIN BASIN QUICK SPEC INSTALLATION DETAIL
DATE	03-11-16	DWG NO.	7001-110-189
DWG SIZE	A	SCALE	1:20 SHEET 1 OF 1
		REV	E

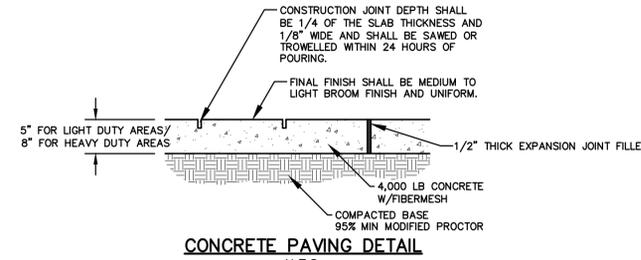
GRATE OPTIONS	LOAD RATING	PART #	DRAWING #
PEDESTRIAN	MEETS H-10	1299CGP	7001-110-202
STANDARD	MEETS H-20	1299CGS	7001-110-203
SOLID COVER	MEETS H-20	1299CGC	7001-110-204
PEDESTRIAN BRONZE	N/A	1299CGPB	7001-110-205
DOME	N/A	1299CGD	7001-110-206
DROP IN GRATE	LIGHT DUTY	1201DI	7001-110-021

TRAFFIC LOADS: CONCRETE SLAB DIMENSIONS ARE FOR GUIDELINE PURPOSES ONLY. ACTUAL CONCRETE SLAB MUST BE DESIGNED TAKING INTO CONSIDERATION LOCAL SOIL CONDITIONS, TRAFFIC LOADING, & OTHER APPLICABLE DESIGN FACTORS. SEE DRAWING NO. 7001-110-111 FOR NON TRAFFIC INSTALLATION.

(3) VARIABLE SUMP DEPTH ACCORDING TO PLANS (6" MIN. BASED ON MANUFACTURING REQ.)

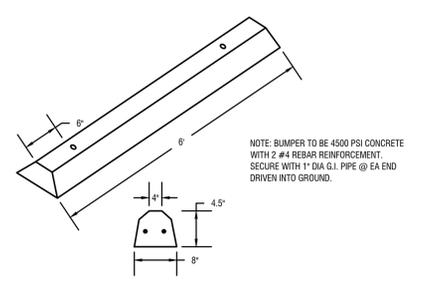


- NOTES:
1. ALL PIPE SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH ASTM D2321, "STANDARD PRACTICE FOR UNDERGROUND INSTALLATION OF THERMOPLASTIC PIPE FOR SEWERS AND OTHER GRAVITY FLOW APPLICATIONS", LATEST EDITION.
 2. FILTER FABRIC: MEASURES SHALL BE TAKEN TO PREVENT MIGRATION OF NATIVE FINES INTO BEDDING AND BACKFILL MATERIAL.
 3. FOUNDATION: WHERE THE TRENCH BOTTOM IS UNSTABLE, THE CONTRACTOR SHALL EXCAVATE TO A DEPTH REQUIRED BY THE ENGINEER AND REPLACE WITH SUTABLE MATERIAL AS SPECIFIED BY THE ENGINEER, AS AN ALTERNATIVE AND AT THE DISCRETION OF THE DESIGN ENGINEER, THE TRENCH BOTTOM MAY BE STABILIZED USING A GEOTEXTILE MATERIAL.
 4. BEDDING: SUTABLE MATERIAL SHALL BE CLASS I. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATION TO ENGINEER, UNLESS OTHERWISE NOTED BY THE ENGINEER. MINIMUM BEDDING THICKNESS SHALL BE 4" (100mm) FOR 4"-24" (100mm-600mm); 6" (150mm) FOR 30"-60" (750mm-1500mm).
 5. INITIAL BACKFILL: SUTABLE MATERIAL SHALL BE CLASS I IN THE PIPE ZONE EXTENDING NOT LESS THAN 6" ABOVE CROWN OF PIPE. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATION TO ENGINEER. MATERIAL SHALL BE INSTALLED AS REQUIRED IN ASTM D2321, LATEST EDITION.
 6. MINIMUM COVER: MINIMUM COVER, H, IN NON-TRAFFIC APPLICATIONS (GRASS OR LANDSCAPE AREAS) IS 12" FROM THE TOP OF PIPE TO GROUND SURFACE. ADDITIONAL COVER MAY BE REQUIRED TO PREVENT FLOTATION. FOR TRAFFIC APPLICATIONS, MINIMUM COVER, H, IS 12" UP TO 48" DIAMETER PIPE AND 24" OF COVER FOR 60" DIAMETER PIPE. MEASURED FROM TOP OF PIPE TO BOTTOM OF FLEXIBLE PAVEMENT OR TO TOP OF RIGID PAVEMENT. © 2016 ADS, INC.



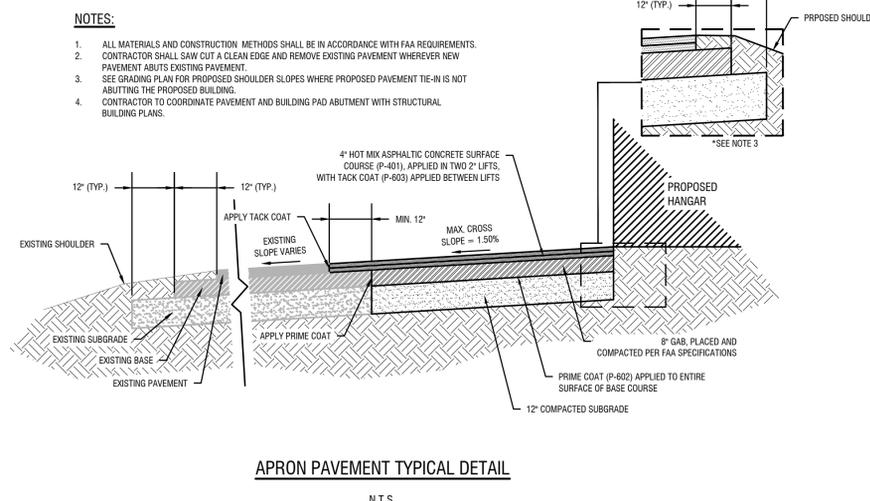
- NOTES:
1. CONSTRUCTION JOINTS: 12' O.C. MAX
 2. EXPANSION JOINTS: 20' O.C. MAX
 3. THE CONCRETE SHOULD BE AIR ENTRAINED AND HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4,000 PSI AFTER 28 DAYS OF LAB CURING PER ASTM C-31.
 4. GRADED AGGREGATE BASE SHOULD CONFORM TO THE GOOD MATERIAL SPECIFICATION SECTION 815.
 5. THE SELECT FILL SHOULD BE RELATIVELY CLEAN SANDS WITH PERCENT FINES LESS THAN 15%. THE FILL MATERIAL SHOULD BE COMPACTED TO A MINIMUM OF 95% OF THE SOIL'S MODIFIED PROCTOR MAXIMUM DRY DENSITY (ASTM D-1557).
 6. IF SP OR SP-SM OR SM SOILS EXIST AT THE PROPOSED SUBGRADE ELEVATION EXTENDING TO A DEPTH AT LEAST 24" BELOW THE PROPOSED SUBGRADE LEVEL, THE IN-SITU SOILS CAN REPLACE THE SELECT FILL, AND THE SUBGRADE SHOULD BE IMPROVED USING DENSIIFICATION AS DISCUSSED IN THE EARTHWORKS SECTION OF THE GEOTECHNICAL REPORT.
 7. CONCRETE JOINTS SHOULD BE SEALED PROPERLY TO AVOID INGRESS OF SURFACE WATER INTO THE SUBGRADE. SOILS, PROPER SURFACE AND SUBGRADE DRAINAGE SYSTEM SHOULD BE INSTALLED TO MAINTAIN THE GROUNDWATER AT LEAST 2' BELOW THE TOP OF THE SUBGRADE.
 8. SOME SUBGRADE SOIL UNDERCUTTING AND BACKFILLING WITH SUTABLE STRUCTURAL FILL WILL BE REQUIRED IF UNSTABLE SUBGRADE SOILS ARE ENCOUNTERED DURING SUBGRADE PREPARATION.

HDPE PIPE BEDDING DETAIL



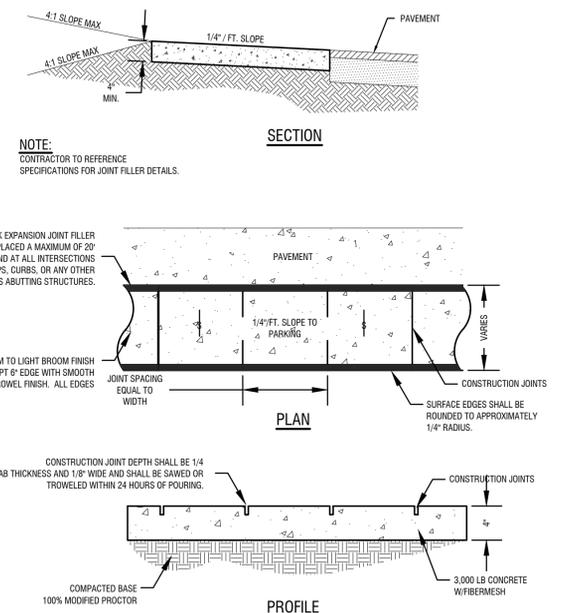
PARKING BUMPER

N.T.S.



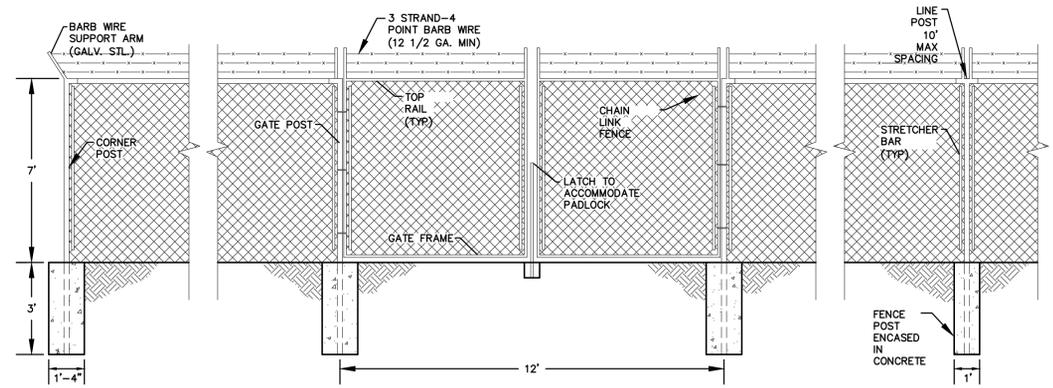
APRON PAVEMENT TYPICAL DETAIL

N.T.S.



TYPICAL SIDEWALK DETAIL

N.T.S.



TYPICAL FENCE DETAIL

N.T.S.

REVISIONS:

1.	GSWCC COMMENTS
2.	ADDENDUM 1

DESIGN PROFESSIONAL:

MARCUS E. SACK
GSWCC LEVEL II # 70248
EXPIRES: 06/14/2026
MARCUS@MESACK.COM

515 NORTH MAIN STREET
P.O. BOX 649
HINESVILLE, GA 31313
TEL: (912) 368-5212

GEORGIA REGISTERED PROFESSIONAL ENGINEER
MARCUS E. SACK
DATE: 12/23/2023

MUNICIPALITY:
LIBERTY COUNTY

COUNTY:
LIBERTY COUNTY

OWNER:
MIDCOAST JMB
112 N MAIN ST
HINESVILLE, GA 31313
(912) 876-2164

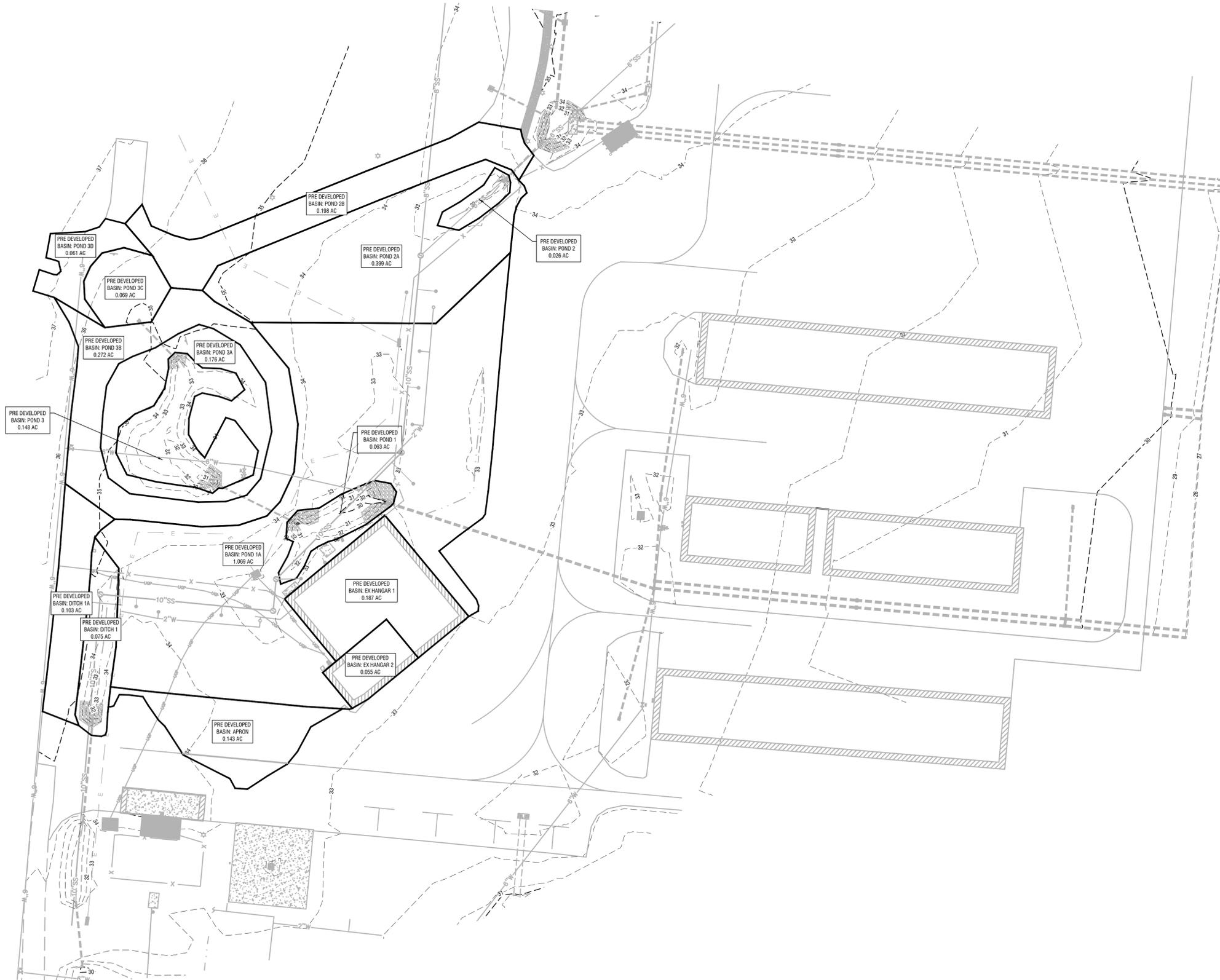
24 HOUR CONTACT:
JOEY BROWN
112 N MAIN ST
HINESVILLE, GA 31313
(912) 876-2164
JOEY.BROWN@LIBERTYCOUNTYGA.COM

MCRA Drainage Improvements

DETAILS

C504

FILE NO: 2022-51
PLOT DATE: December 29, 2023

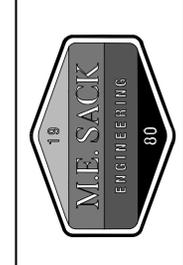
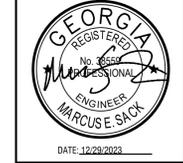


REVISIONS:

1.	GSWCC COMMENTS
2.	ADDENDUM 1

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DESIGN PROFESSIONAL:
MARCUS E. SACK
 GSWCC LEVEL II # 70248
 EXPIRES: 06/14/2026
 MARCUS@MESACK.COM
 515 NORTH MAIN STREET
 P.O. BOX 649
 HINESVILLE, GA 31313
 TEL: (912) 368-5212



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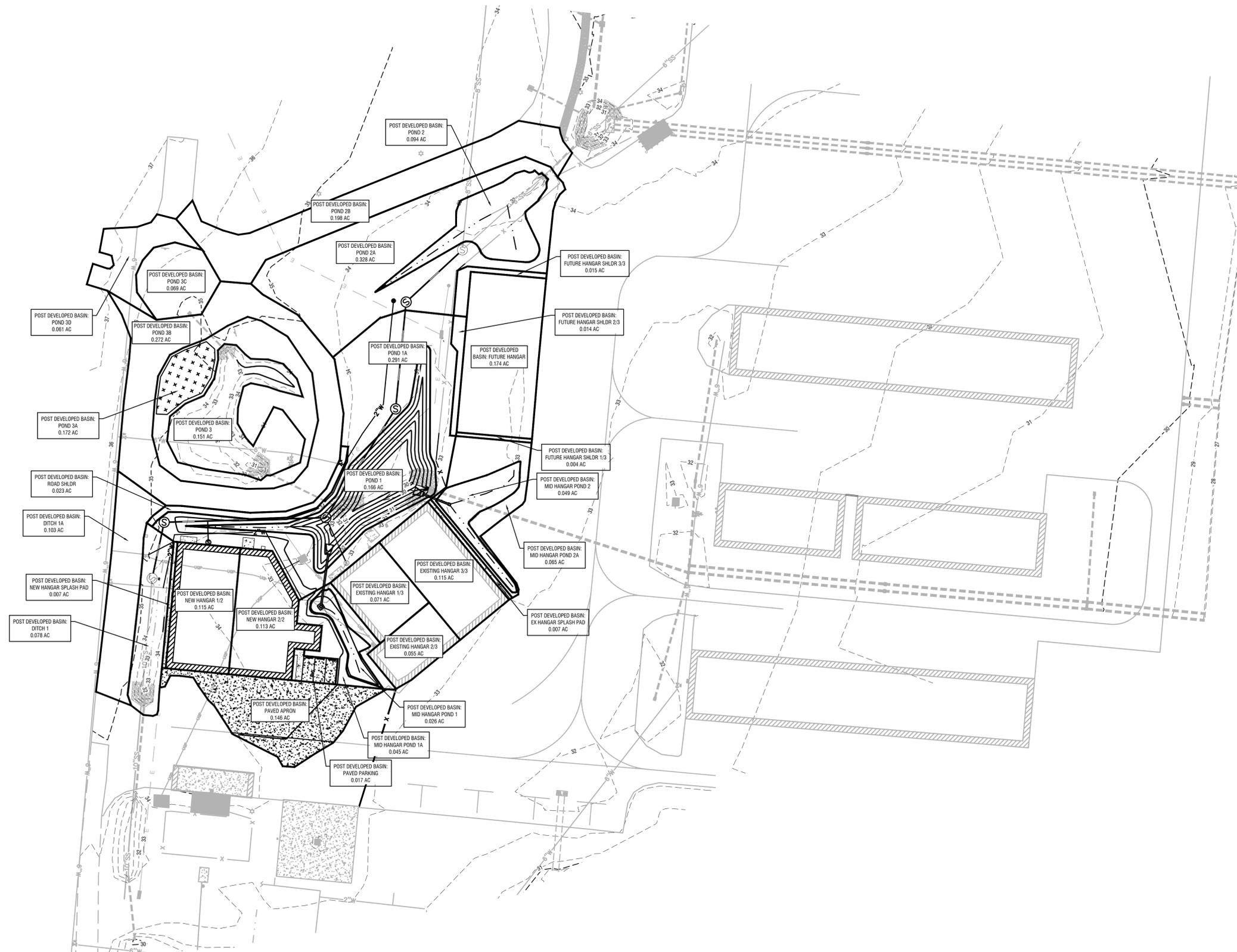
MCRA Drainage Improvements

PRE
DEVELOPED
BASIN MAP

C600

FILE NO: 2022-51
 PLOT DATE: December 29, 2023





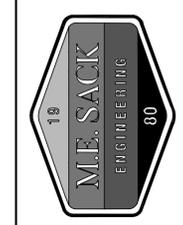
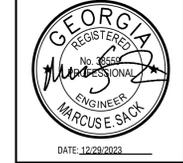
REVISIONS:

1.	GSWCC COMMENTS
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DESIGN PROFESSIONAL:
MARCUS E. SACK
 GSWCC LEVEL II # 70248
 EXPIRES: 06/14/2026
 MARCUS@MESACK.COM

515 NORTH MAIN STREET
 P.O. BOX 649
 HINESVILLE, GA 31313
 TEL: (912) 368-5212



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 112 N MAIN ST
 HINESVILLE, GA 31313
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 HINESVILLE, GA 31313
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 JOEY.BROWN@LIBERTYCOUNTYGA.COM

**MCRA
 Drainage
 Improvements**

POST
 DEVELOPED
 BASIN MAP

C601

FILE NO: 2022-51
 PLOT DATE: December 29, 2023

