

PROJECT ISSUE SEQUENCE		
NO.	DATE	DESCRIPTION
0	5/22/2026	ISSUED FOR BID

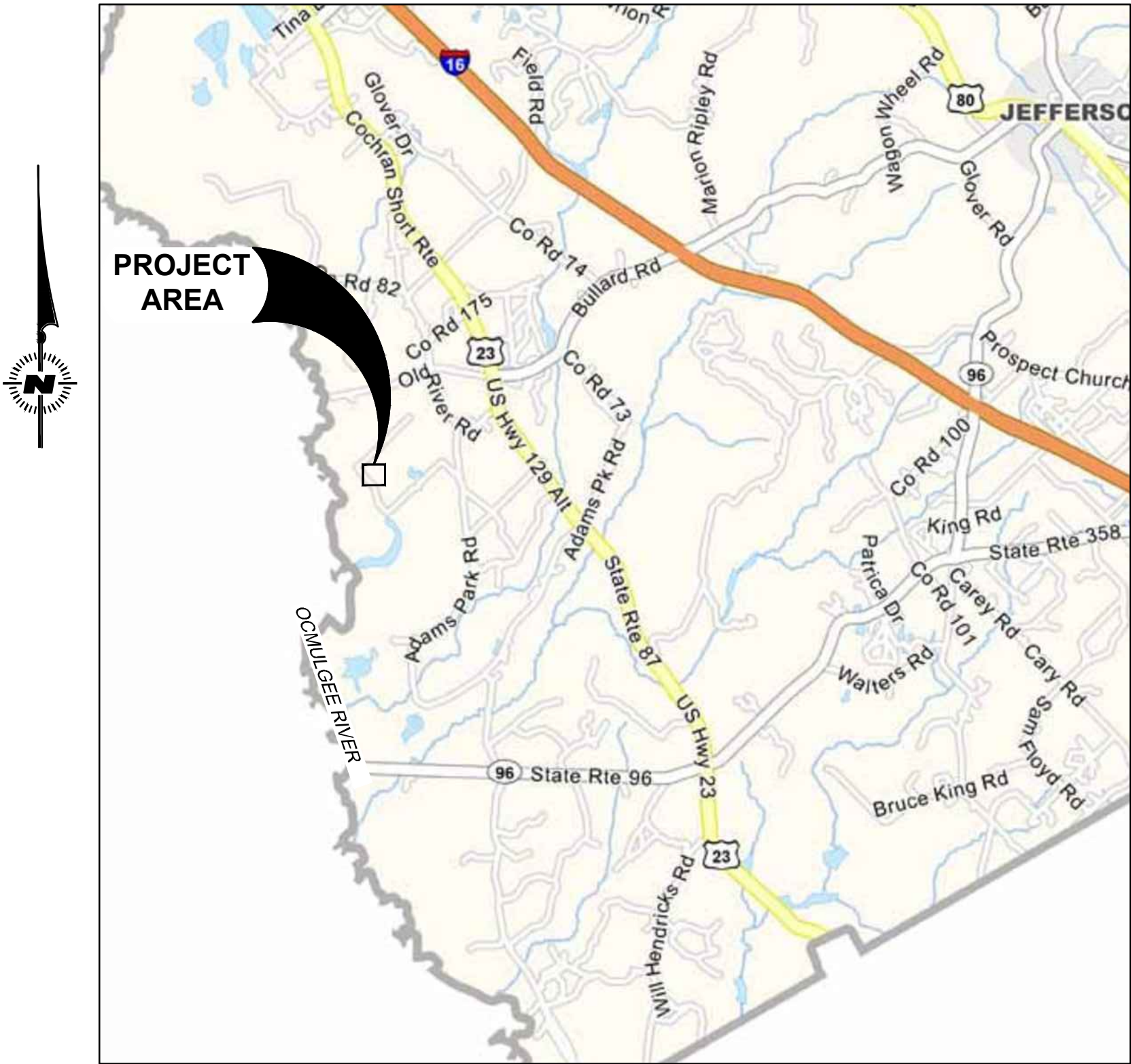
GAS EASEMENT REMEDIATION

FOR THE

CITY OF WARNER ROBINS



ADAMS ROAD, DRY BRANCH, GA 31020
BID NO: 26-U-4788
24-HOUR CONTACT: MONTIE WALTERS, UTILITIES DIRECTOR
TELEPHONE: 478-302-5441
EMAIL: MWALTERS@WRGA.GOV

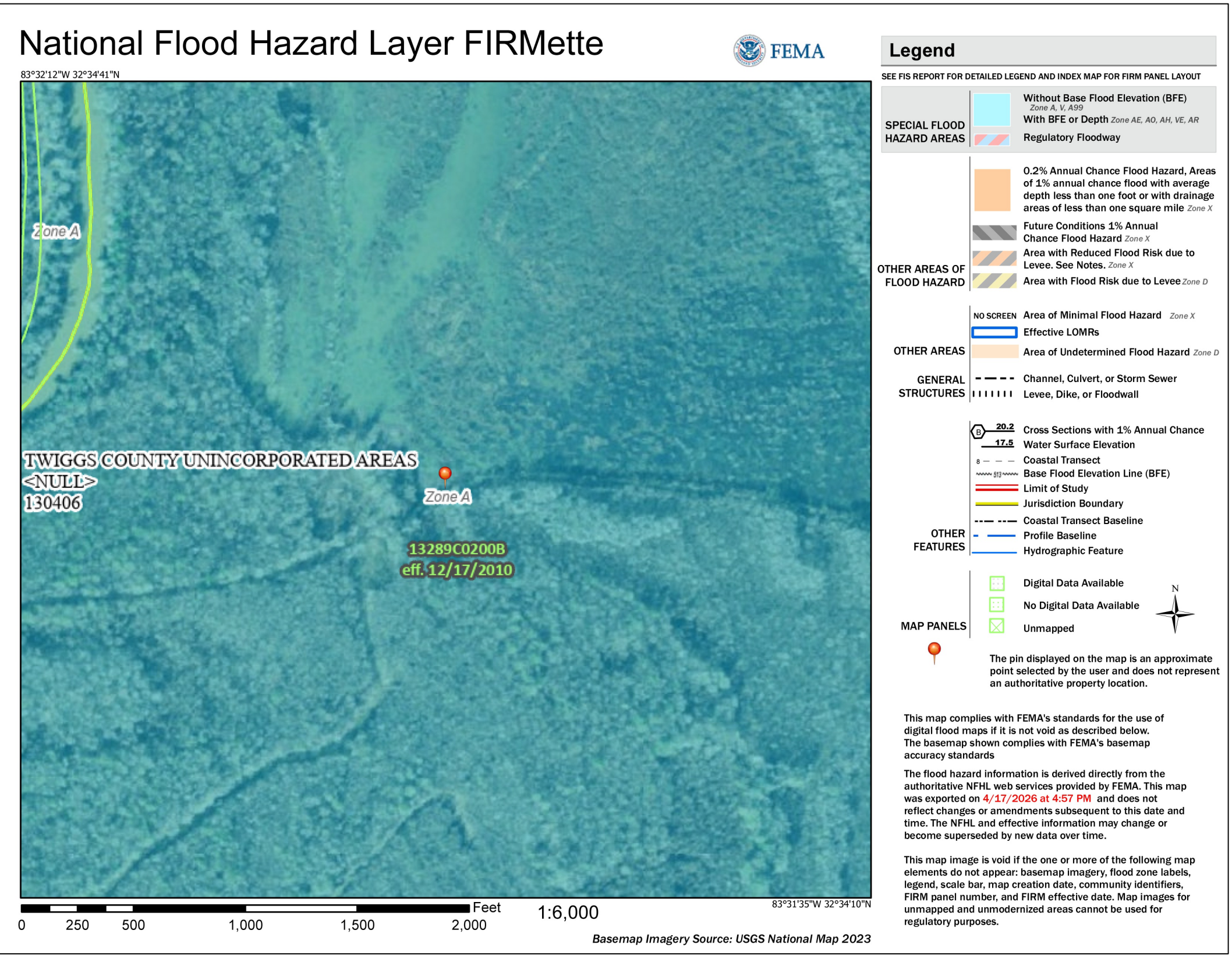


VICINITY MAP
NOT TO SCALE

SITE INFORMATION
LANDLOT 229 OF THE 25 LAND DISTRICT
LATITUDE: 32.5728 LONGITUDE: -83.5236

PORTIONS OF THIS PROJECT LIE WITHIN A FLOODPLAIN, PER FEMA
FLOOD MAP PANEL 13289C0200B EFFECTIVE DATE: 12/17/2010

DWG. NO.	DRAWING TITLE
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GWES PROJECT NUMBER: 015.13.3.26

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2/26/2025 2:45:45 AM By: Erin Smith

GENERAL NOTES:

1. THE CONTRACTOR SHALL COORDINATE ALL CONSTRUCTION WITH THE OWNER, CITY OF WARNER ROBINS, 97 GLENN DRIVE, WARNER ROBINS, GA 31088. 24-HOUR CONTACT MONTIE WALTERS, UTILITIES DIRECTOR.
2. ALL CONSTRUCTION SHALL CONFORM TO THE PLANS, SPECIFICATIONS, AND CITY STANDARDS. IN THE EVENT OF CONFLICTS, THE STRICTER OF THE STANDARDS SHALL APPLY.
3. ANY REFERENCE TO "CONTRACTOR" SHALL BE ASSUMED TO ALSO APPLY TO ANY AND ALL OF THE CONTRACTOR'S VENDORS, SUPPLIERS, AND SUBCONTRACTORS.
4. THIS PROJECT IS LOCATED IN 25 DISTRICT/LAND LOT 229 OF TWIGGS COUNTY, GA. PORTIONS OF THIS PROPERTY LIE WITHIN A FLOODPLAIN PER FEMA MAP PANEL(S) 13289C0200B, EFFECTIVE DATE:12/17/2010.
5. THE LOCATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS HAVE BEEN DETERMINED FROM THE BEST AVAILABLE INFORMATION AND IS GIVEN FOR THE CONVENIENCE OF THE CONTRACTOR. ENGINEER AND OWNER DO NOT ASSUME RESPONSIBILITY OF THE ACCURACY OF THE LOCATIONS SHOWN.
6. THE TOPOGRAPHIC SURVEY WAS PREPARED BY STRANGE LAND SURVEYING, INC. DATED MARCH 20, 2026. STRANGE LAND SURVEYING, INC NOR THE LICENSED PROFESSIONAL ASSUME ANY LIABILITY FOR THE EXISTENCE, LOCATION, MATERIAL OR SIZE OF ANY UNDERGROUND UTILITY SHOWN ON THIS SURVEY. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE EXISTENCE, EXACT LOCATION, MATERIAL AND SIZE OF ANY UNDERGROUND UTILITY BEFORE BIDDING OR EXCAVATING ON THIS PROJECT.
7. THE CONTRACTOR SHALL CONTACT GEORGIA 811, EITHER BY DIALING 811 OR BY SUBMITTING A DIG TICKET ONLINE, A MINIMUM OF THREE (3) BUSINESS DAYS PRIOR TO THE START OF ANY EXCAVATION ACTIVITIES. THE CONTRACTOR SHALL PROVIDE ALL REQUIRED INFORMATION, INCLUDING CONTACT INFORMATION, EXACT WORK LOCATION, DIRECTIONS TO THE SITE, TYPE OF WORK TO BE PERFORMED, ANTICIPATED START DATE, AND EXPECTED DURATION OF WORK. THE CONTRACTOR SHALL ALLOW UTILITY OWNERS THE LEGALLY REQUIRED RESPONSE TIME TO LOCATE AND MARK UNDERGROUND UTILITIES AND SHALL VERIFY ALL UTILITY RESPONSES THROUGH THE POSITIVE RESPONSE INFORMATION SYSTEM (PRIS) BEFORE COMMENCING ANY WORK. EXCAVATION SHALL NOT BEGIN UNTIL ALL UTILITIES HAVE RESPONDED AND NO UNMARKED BUT VISIBLY APPARENT UNDERGROUND UTILITIES ARE PRESENT. IF UTILITY MARKINGS ARE MISSING, UNCLEAR, OR RESPONSES ARE INCOMPLETE, THE CONTRACTOR SHALL CONTACT GEORGIA 811 FOR RE-NOTIFICATION PRIOR TO PROCEEDING. ALL EXCAVATION ACTIVITIES SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE TOLERANCE ZONE REQUIREMENTS AND SAFE DIGGING PRACTICES, PARTICULARLY WHEN OPERATING MECHANIZED EQUIPMENT.
8. THE CONTRACTOR SHALL VERIFY LOCATIONS AND SIZES OF EXISTING UTILITIES. IF A DISCREPANCY EXISTS WITH THE UTILITY LOCATIONS, THE CONTRACTOR SHALL CONTACT THE OWNER BEFORE BEGINNING CONSTRUCTION. CONTRACTOR TO VERIFY ALL POTENTIAL UTILITY CONFLICTS AND SHALL IMMEDIATELY NOTIFY THE OWNER OF ANY DISCREPANCIES BETWEEN THE PLANS AND THE ACTUAL FIELD CONDITIONS.
9. THE CONTRACTOR SHALL RETAIN A LICENSED SURVEYOR TO PROVIDE THE HORIZONTAL AND VERTICAL CONTROL DATA FOR THE PROJECT. BENCHMARK AND SURVEY CONTROL POINT INFORMATION SHALL BE PROVIDED TO THE CONTRACTOR BY THE OWNER OR OWNER'S SURVEYOR. DISCREPANCIES BETWEEN FIELD MEASUREMENTS AND CONSTRUCTION PLAN INFORMATION SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER IMMEDIATELY.
10. ANY REFERENCE POINTS, RIGHT-OF-WAY MONUMENTS, PROPERTY CORNERS, BENCHMARKS OR OTHER MONUMENTS DISTURBED AS A RESULT OF CONSTRUCTION SHALL BE RESTORED BY A REGISTERED LAND SURVEYOR LICENSED TO PRACTICE IN THE STATE OF GEORGIA, WITH ALL ASSOCIATED COSTS BORNE BY THE CONTRACTOR. LIKEWISE, ALL LANDSCAPES, STREET SIGNS, MAILBOXES, TRAFFIC SIGNS AND OTHER STREET FURNITURE AND APPURTENANCES DISTURBED BY CONSTRUCTION OPERATIONS SHALL BE RESTORED BY THE CONTRACTOR TO THEIR ORIGINAL CONDITION.
11. ALL CONSTRUCTION ON PRIVATE PROPERTY REQUIRES A TEMPORARY OR PERMANENT EASEMENT. THE OWNER WILL OBTAIN SUCH EASEMENTS.
12. THE CONTRACTOR SHALL NOTIFY APPROPRIATE INSPECTORS AT LEAST TWO (2) BUSINESS DAYS PRIOR TO COMMENCING CONSTRUCTION. THE CONTRACTOR SHALL COORDINATE WORK SCHEDULE DAILY WITH INSPECTORS ONCE CONSTRUCTION COMMENCES UNTIL PROJECT COMPLETION. THE CONTRACTOR SHALL REVIEW WORK COMPLETED QUANTITIES WITH INSPECTORS PRIOR TO SUBMISSION OF MONTHLY PAY APPLICATION REQUEST.
13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ARRANGING AND SECURING ANY NECESSARY STORAGE AND STAGING AREAS FOR CONSTRUCTION EQUIPMENT AND MATERIAL. SECURITY OF EQUIPMENT AND MATERIAL SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

CULVERT INSTALLATION NOTES:

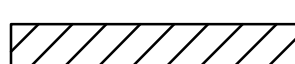
1. ALL EXCAVATED TRENCHES SHALL BE COMPLETELY FILLED OR COVERED WITH PLATES AT THE END OF EACH WORKDAY.
2. THE CONTRACTOR SHALL DEWATER WORK AREA TO PROVIDE DRY EXCAVATION AT ALL TIMES. CONTRACTOR SHALL PROVIDE ALL PIPE, PUMPS, MATS, STONE, SAND, EXCAVATION, LABOR, ETC. TO ADEQUATELY DEWATER WORK AREA. IF CONTRACTOR ENCOUNTERS GROUNDWATER, GEOTEXTILE MUST BE LAID BELOW PIPE BEDDING MATERIALS. DEWATERING AND GEOTEXTILE COSTS SHALL BE INCIDENTAL TO BID ITEMS PRICES UNLESS OTHERWISE SPECIFIED ON DRAWINGS.
3. STRUCTURAL FILL SHALL MEET COMPACTION REQUIREMENTS AND STANDARDS SET FORTH IN THE SPECIFICATIONS. MATERIALS EXCAVATED THAT ARE NOT SUITABLE FOR BACKFILL SHALL BE REMOVED FROM PROJECT AREA AT NO DIRECT COST TO THE OWNER. BORROW MATERIALS MUST MEET REQUIREMENTS OF STRUCTURAL FILL AND SHALL BE OBTAINED FROM A SUITABLE SOURCE AND AT THE EXPENSE OF THE CONTRACTOR.
4. ANY UTILITY CONFLICTS OR RELOCATIONS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CURRENT OWNER CONSTRUCTION STANDARDS UNLESS OTHERWISE SHOWN ON DRAWINGS.
5. TRENCH SAFETY WILL BE THE RESPONSIBILITY OF THE CONTRACTOR. TRENCH SLOPES AND BENCHING SHALL MEET OSHA REQUIREMENTS TO ENSURE A SAFE PROJECT.

PROJECT SCOPE:

1. THE PROJECT SCOPE INCLUDES INSTALLATION OF (9) NINE 36" RCP CULVERTS UNDER THE EXISTING GAS EASEMENT ACCESS ROAD, GRADING, AND EROSION CONTROL..
2.
3. THE CONTRACTOR SHALL PLACE GEO-FABRIC AND GRAVEL ON THE ACCESS DRIVE PATH AFTER THE CULVERTS ARE INSTALLED. THE EXACT BEGINNING AND ENDING POINT OF THE PLACEMENT OF GEO-FABRIC AND GRAVEL SHALL BE DETERMINED BY THE OWNER, BUT IT SHALL NOT EXCEED AN AREA OVER 3,000 FEET LONG BY 12 FEET WIDE. SEE SHEET C-14 FOR DETAIL.

14. CONSTRUCTION AND STORAGE AREAS SHALL BE KEPT NEAT AND CLEAN AT ALL TIMES.
15. SHOP DRAWINGS AND CERTIFICATIONS FOR ALL CONSTRUCTION MATERIALS ARE REQUIRED. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS AND PRODUCT LITERATURE TO THE ENGINEER FOR REVIEW PRIOR TO ORDERING THE MATERIALS REQUIRED FOR CONSTRUCTION.
16. THE CLEARING AND CONSTRUCTION LIMITS ARE SHOWN ON THE PLANS. THE CONTRACTOR SHALL CONTAIN ALL CONSTRUCTION ACTIVITIES WITHIN THESE LIMITS. AT NO TIME SHALL THE CONTRACTOR DISTURB SURROUNDING PROPERTIES OR TRAVEL ON SURROUNDING AREAS WITHOUT WRITTEN CONSENT FROM THE OWNER AND THE PROPERTY OWNER. ANY REPAIR OR RECONSTRUCTION OF DAMAGED AREAS IN SURROUNDING PROPERTIES SHALL BE COMPLETED BY THE CONTRACTOR IMMEDIATELY. ALL COSTS FOR REPAIRS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND NO EXTRA COMPENSATION SHALL BE ALLOWED. DO NOT REMOVE TREES, ORNAMENTALS, LANDSCAPING, OR OTHER LANDSCAPE ITEMS WITHOUT PRIOR APPROVAL FROM OWNER.
17. THE CONTRACTOR SHALL MAINTAIN ACCESS TO PUBLIC, PRIVATE, AND COMMERCIAL PROPERTIES AT ALL TIMES DURING CONSTRUCTION.
18. THE CONTRACTOR SHALL BE REQUIRED TO MAINTAIN AND REPAIR ALL ROADS DAMAGED DURING THE CONSTRUCTION PERIOD. IN SO DOING, THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE BEFORE AND AFTER VIDEOS OF ROAD CONDITION FROM THE PROJECT SITE TO THE NEAREST STATE HIGHWAY. THE PUBLIC WORKS AND ROAD DEPARTMENTS OF THE RESPECTIVE CITIES AND COUNTIES SHALL BE CONTACTED BEFORE CONSTRUCTION BEGINS AND VIDEOS PROVIDED FOR THEIR REVIEW AND ACCEPTANCE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SECURING AND PROVIDING ANY REPAIR BONDS REQUIRED BY THE RESPECTIVE ROAD DEPARTMENTS. LOAD LIMITS ON EXISTING ROADS SHALL BE OBSERVED BY THE CONTRACTOR.
19. THE CONTRACTOR SHALL KEEP EXISTING CHANNELS AND DITCHES OPEN TO STORMWATER PASSAGE AT ALL TIMES DURING THE PROJECT.
20. THE CONTRACTOR SHALL DEWATER WORK AREA TO PROVIDE DRY EXCAVATION AT ALL TIMES. THE CONTRACTOR SHALL PROVIDE ALL PIPE, PUMPS, MATS, STONE, SAND, EXCAVATION, LABOR, ETC. TO ADEQUATELY DEWATER WORK AREA. IF CONTRACTOR ENCOUNTERS GROUNDWATER, GEOTEXTILE MUST BE LAID BELOW PIPE BEDDING MATERIALS. DEWATERING AND GEOTEXTILE COSTS SHALL BE INCIDENTAL TO BID ITEM PRICES.
21. ALL WASTE MATERIALS EXCAVATED FROM THE SITE SHALL BE REMOVED AND PROPERLY DISPOSED OFF-SITE BY THE CONTRACTOR. MATERIALS SHALL BE STOCKPILED SEPARATELY AS TO USABLE (NON-ORGANIC) FILL STOCKPILES AND ORGANIC (MUCK) STOCKPILES. CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL UNSUITABLE FILL MATERIALS FROM THE SITE.
22. THE OWNER SHALL PREPARE AND FILE THE NOTICE OF INTENT FOR COVERAGE UNDER THE APPLICABLE NPDES GENERAL PERMIT TO DISCHARGE STORMWATER ASSOCIATED WITH THE CONSTRUCTION ACTIVITY AND PAY ALL REQUIRED FEES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FULL IMPLEMENTATION OF THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN, INCLUDING RAINFALL MONITORING, INSPECTIONS AND ALL OTHER REQUIREMENTS OF THE PERMIT.
23. EROSION, SEDIMENTATION AND POLLUTION CONTROL MEASURES SHALL BE PROVIDED AND INSTALLED BY THE CONTRACTOR WITHIN THE LIMITS OF CLEARING AND CONSTRUCTION PRIOR TO OR CONCURRENT WITH THE COMMENCEMENT OF CONSTRUCTION. THESE MEASURES SHALL BE INSTALLED, PHASED, AND INSPECTED BY THE CONTRACTOR ON A REGULAR BASIS AND ARE TO BE MAINTAINED OR REPAIRED IMMEDIATELY. REFER TO EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN FOR ADDITIONAL REQUIREMENTS. SEE DRAWING NUMBERS C-10 THROUGH C-14 EROSION, SEDIMENTATION, AND POLLUTION CONTROL NOTES AND DETAILS.
24. ALL DISTURBED AREAS SHALL BE RE-VEGETATED IMMEDIATELY AFTER CONSTRUCTION IN A MANNER CONSISTENT WITH THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA. ALL EROSION AND SEDIMENT CONTROLS SHALL BE INSTALLED PRIOR TO OR CONCURRENT WITH THE START OF CONSTRUCTION.
25. THE CONTRACTOR SHALL STOCKPILE AND LATER SPREAD A MINIMUM OF 4 INCHES OF TOPSOIL IN AREAS TO BE LANDSCAPED OR SEEDED.

LEGEND

	EXISTING	PROPOSED
PROPERTY LINE W/ PIN	-----○-IPF	
RIGHT OF WAY (RW)	-----	-----
EASEMENT	-----	-----
BENCHMARK		
CONTROL POINT	 CONTROL POINT # 102	
TREE	 18" HARDWOOD	
TREELINE	~~~~~	
SIGN		
MAIL BOX		
SANITARY SEWER W/ MANHOLE	-----SS----- 	-----SS----- 
OVERHEAD POWER/POWER POLE	-----OHP----- 	
LIGHT POLE/GUY WIRE		
TELEPHONE PEDESTAL		
FIBER OPTIC MARKER		
WATER LINE	-----W-----W-----	
VALVE		
FIRE HYDRANT		
GAS METER		
ASPHALT PAVING		
GRAVEL		
STORMWATER PIPING	-----	
HEADWALL		
FLARED END SECTION		
LIMITS OF CLEARING AND CONSTRUCTION		-----LOD-----LOD-----
CONTOUR	-----400-----	-----400-----
SILT FENCE		-----XX-----XX-----XX-----
REMOVE AND REPLACE		

ABBREVIATION LEGEND

CFS	-	CUBIC FEET PER SECOND
CONC	-	CONCRETE
CMP	-	CORRUGATED METAL PIPE
CP	-	CONTROL POINT
DIP	-	DUCTILE IRON PIPE
EL	-	ELEVATION
ESPCP	-	EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN
GDOT	-	GEORGIA DEPARTMENT OF TRANSPORTATION
HDPE	-	HIGH-DENSITY POLYETHYLENE
INV	-	INVERT
LF	-	LINEAR FEET
PVC	-	POLYVINYL CHLORIDE
OC	-	ON-CENTER
FPS	-	FEET PER SECOND
RCEP	-	REINFORCED CONCRETE ELLIPTICAL PIPE
RCP	-	REINFORCED CONCRETE PIPE
SF	-	SQUARE FEET
MH	-	MANHOLE
STD	-	STANDARD
SY	-	SQUARE YARDS
STA	-	STATION
TYP	-	TYPICAL
VF	-	VERTICAL FEET
YR	-	YEAR

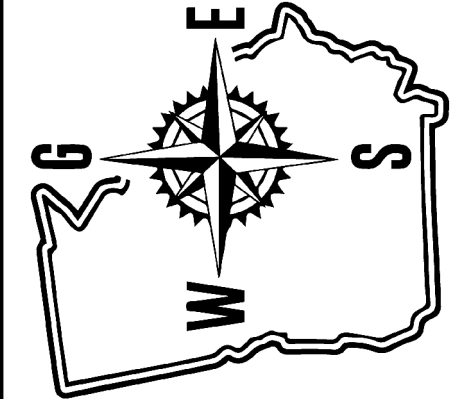


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GSWCC LEVEL II CERTIFICATION 64207
EXPIRATION DATE: 6-23-2026



GAS EASEMENT REMEDIATION
FOR THE
CITY OF WARNER ROBINS



PROJECT NO.: 015.13.3.26
DESIGNED: MTP
CHECKED: MWT
APPROVED: MTP
DATE: MAY 2026

GENERAL NOTES

DRAWING NO.

C-1

SHEET: 1 OF 14

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2/26/2026 2:28:46 AM By: Erin Smith



GENERAL LOCATION MAP



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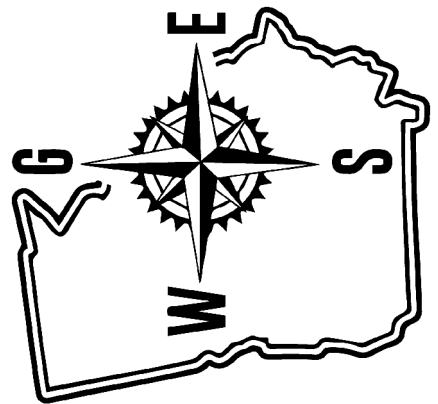
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GEORGIA CDR: PEP008783; EXPIRES 6/30/2026



GAS EASEMENT REMEDIATION
FOR THE
CITY OF WARNER ROBINS



PROJECT NO.:	015.13.3.26
DESIGNED:	MTP
CHECKED:	MWT
APPROVED:	MTP
DATE:	MAY 2026

GENERAL LOCATION MAP

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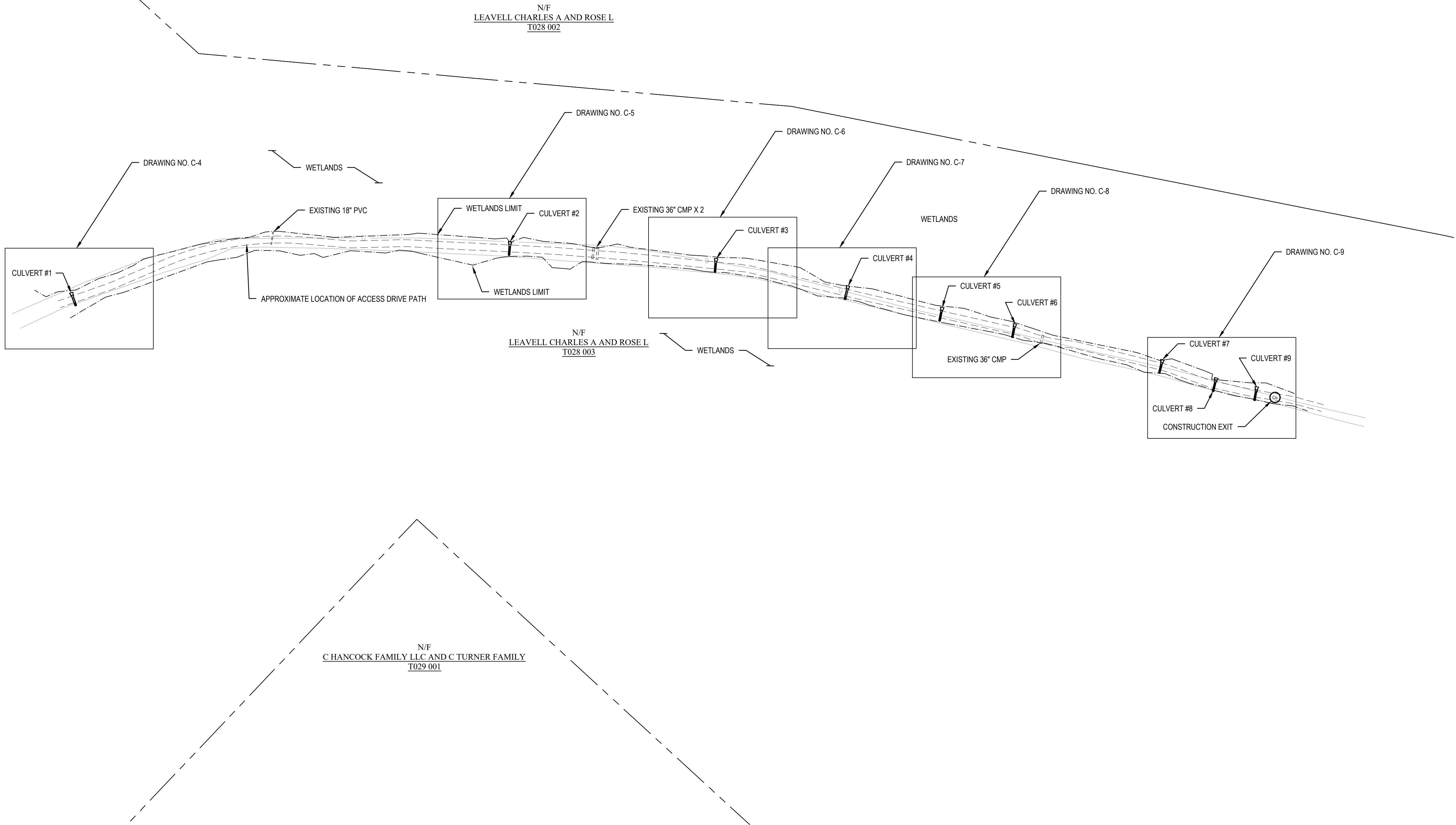
C-2

SHEET: 2 OF 14

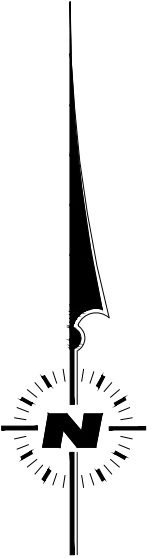
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2026/05/29 10:49 AM by: Elnor3103

SITE PLAN NOTES:

1. THE CONTRACTOR SHALL COORDINATE WITH THE OWNER TO VERIFY THE EXACT LOCATION AND DEPTH OF THE GAS MAIN.
2. THE CONTRACTOR SHALL PLACE GEO-FABRIC AND GRAVEL ON THE ACCESS DRIVE PATH AFTER THE CULVERTS ARE INSTALLED. THE EXACT BEGINNING AND ENDING POINT OF THE PLACEMENT OF GEO-FABRIC AND GRAVEL SHALL BE DETERMINED BY THE OWNER, BUT IT SHALL NOT EXCEED AN AREA OVER 3,000 FEET LONG BY 12 FEET WIDE. SEE SHEET C-14 FOR DETAIL.

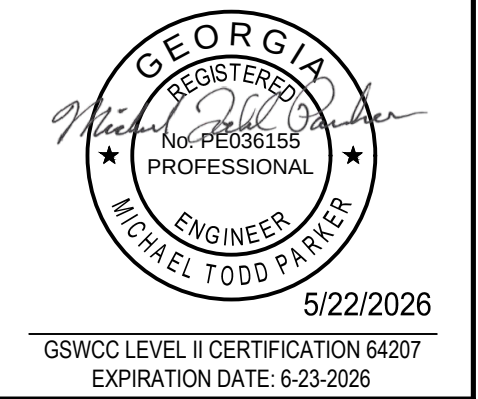


KEY MAP



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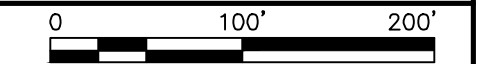


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GAS EASEMENT REMEDIATION
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CITY OF WARNER ROBINS

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KEY MAP



SCALE

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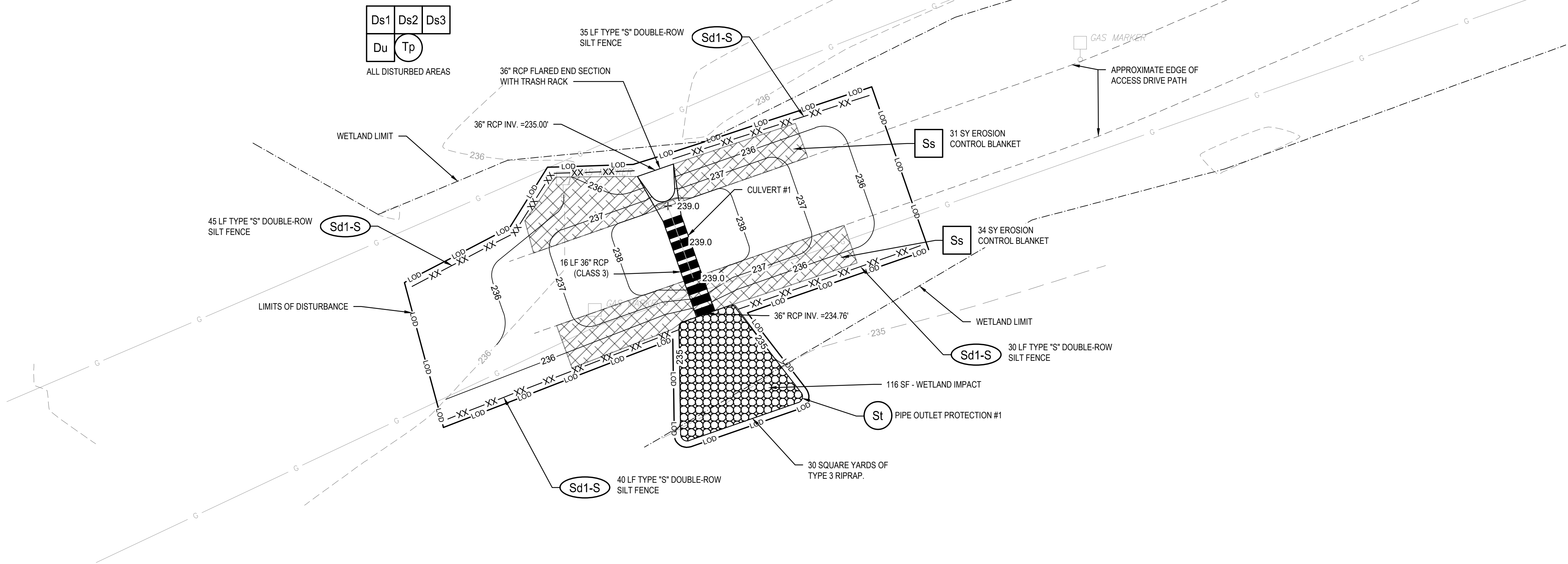
C-3

SHEET: 3 OF 14



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GEORGIA

REGISTERED

Michael Todd Parker

PE036155

PROFESSIONAL

ENGINEER

MICHAEL TODD PARKER

5/22/2026

GSWCC LEVEL II CERTIFICATION 64207

EXPIRATION DATE: 6-23-2026

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GAS EASEMENT REMEDIATION

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CITY OF WARNER ROBINS

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SITE PLAN - CULVERT 1

SCALE

DRAWING NO.

C-4

SHEET: 4 OF 14

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GEORGIA811

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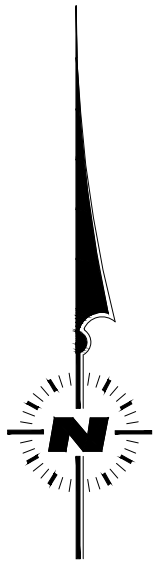
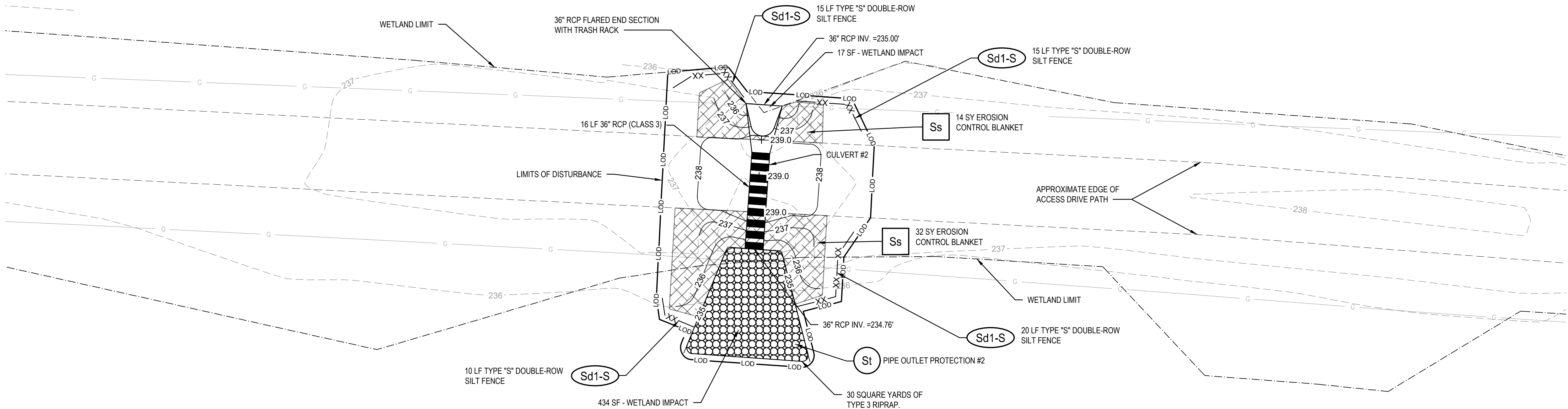
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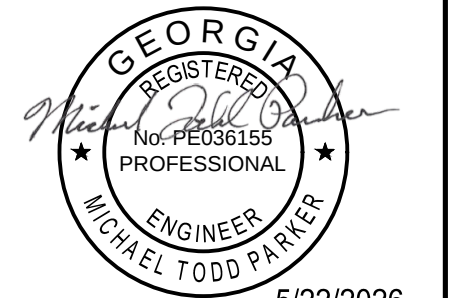
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ALL DISTURBED AREAS



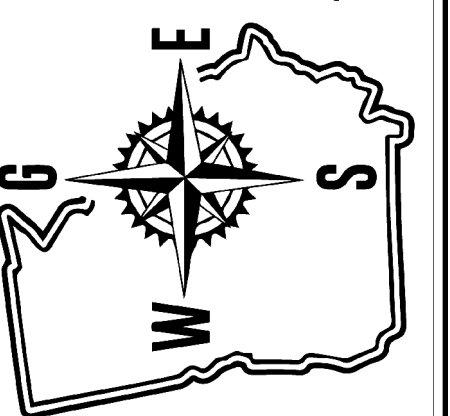
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GEORGIA COE: PE0007893, EXPIRES 6/30/2026

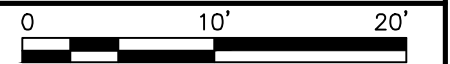


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SITE PLAN - CULVERT 2



SCALE

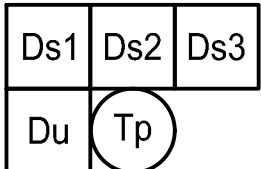
DRAWING NO.

C-5

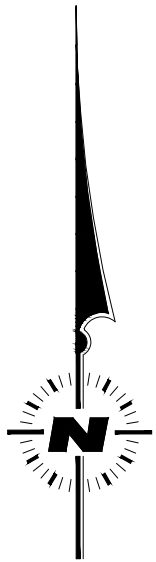
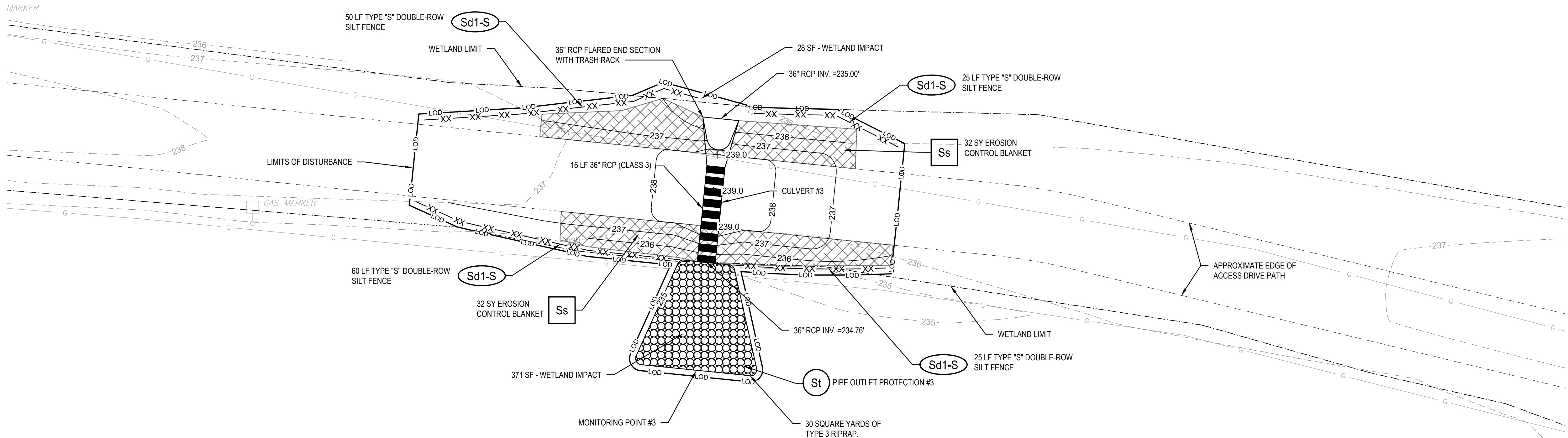
SHEET: 5 OF 14

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2. THE CONTRACTOR SHALL PLACE GEO-FABRIC AND GRAVEL ON THE ACCESS DRIVE PATH AFTER THE CULVERTS ARE INSTALLED. THE EXACT BEGINNING AND ENDING POINT OF THE PLACEMENT OF GEO-FABRIC AND GRAVEL SHALL BE DETERMINED BY THE OWNER, BUT IT SHALL NOT EXCEED AN AREA OVER 3,000 FEET LONG BY 12 FEET WIDE. SEE SHEET C-14 FOR DETAIL.



ALL DISTURBED AREAS

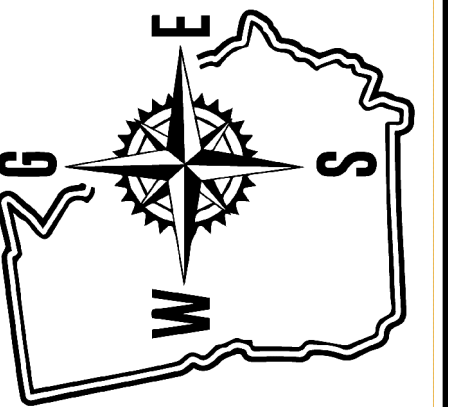


ISSUE SEQUENCE		
NO.	DATE	DESCRIPTION
0	5/22/2026	ISSUED FOR BID

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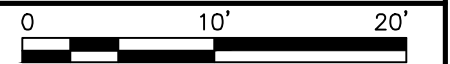


GAS EASEMENT REMEDIATION
FOR THE
CITY OF WARNER ROBINS



PROJECT NO.: 015.13.3.26
DESIGNED: MTP
CHECKED: MWT
APPROVED: MTP
DATE: MAY 2026

SITE PLAN - CULVERT 3



SCALE

DRAWING NO.

C-6

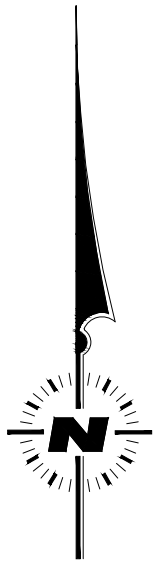
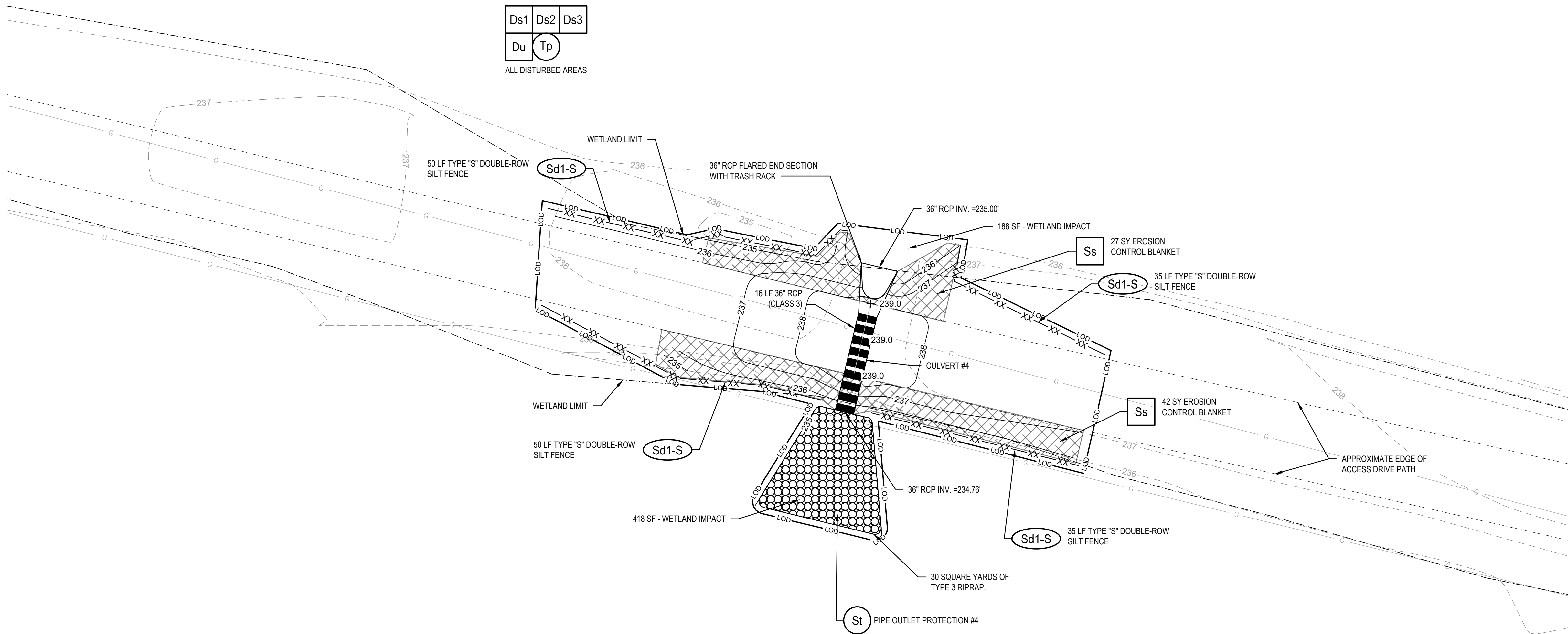
SHEET: 6 OF 14

SITE PLAN NOTES:

1. THE CONTRACTOR SHALL COORDINATE WITH THE OWNER TO VERIFY THE EXACT LOCATION AND DEPTH OF THE GAS MAIN.
2. THE CONTRACTOR SHALL PLACE GEO-FABRIC AND GRAVEL ON THE ACCESS DRIVE PATH AFTER THE CULVERTS ARE INSTALLED. THE EXACT BEGINNING AND ENDING POINT OF THE PLACEMENT OF GEO-FABRIC AND GRAVEL SHALL BE DETERMINED BY THE OWNER, BUT IT SHALL NOT EXCEED AN AREA OVER 3,000 FEET LONG BY 12 FEET WIDE. SEE SHEET C-14 FOR DETAIL.

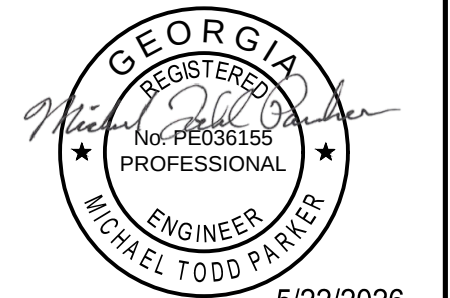
Ds1	Ds2	Ds3
Du	Tp	

ALL DISTURBED AREAS



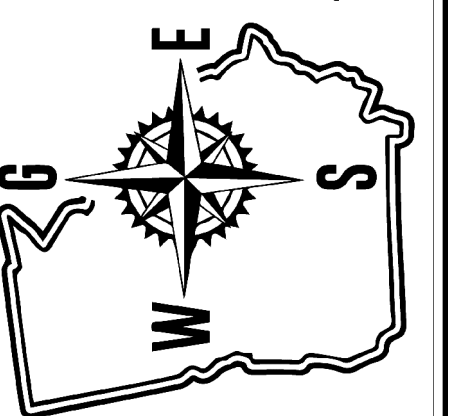
ISSUE SEQUENCE		
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5/22/2026
GSWCC LEVEL II CERTIFICATION 64207
EXPIRATION DATE: 6-23-2026

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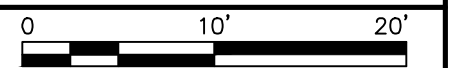


GAS EASEMENT REMEDIATION
FOR THE
CITY OF WARNER ROBINS



PROJECT NO.: 015.13.3.26
DESIGNED: MTP
CHECKED: MWT
APPROVED: MTP
DATE: MAY 2026

SITE PLAN - CULVERT 4



SCALE

DRAWING NO.

C-7

SHEET: 7 OF 14



SITE PLAN NOTES:

1. THE CONTRACTOR SHALL COORDINATE WITH THE OWNER TO VERIFY THE EXACT LOCATION AND DEPTH OF THE GAS MAIN.
2. THE CONTRACTOR SHALL PLACE GEO-FABRIC AND GRAVEL ON THE ACCESS DRIVE PATH AFTER THE CULVERTS ARE INSTALLED. THE EXACT BEGINNING AND ENDING POINT OF THE PLACEMENT OF GEO-FABRIC AND GRAVEL SHALL BE DETERMINED BY THE OWNER, BUT IT SHALL NOT EXCEED AN AREA OVER 3,000 FEET LONG BY 12 FEET WIDE. SEE SHEET C-14 FOR DETAIL.

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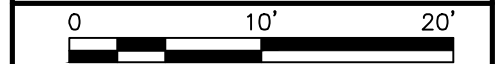
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GAS EASEMENT REMEDIATION
FOR THE
CITY OF WARNER ROBINS



PROJECT NO.:	015.13.3.26
DESIGNED:	MTP
CHECKED:	MWT
APPROVED:	MTP
DATE:	MAY 2026

SITE PLAN - CULVERTS 5 AND 6



SCALE

DRAWING NO.

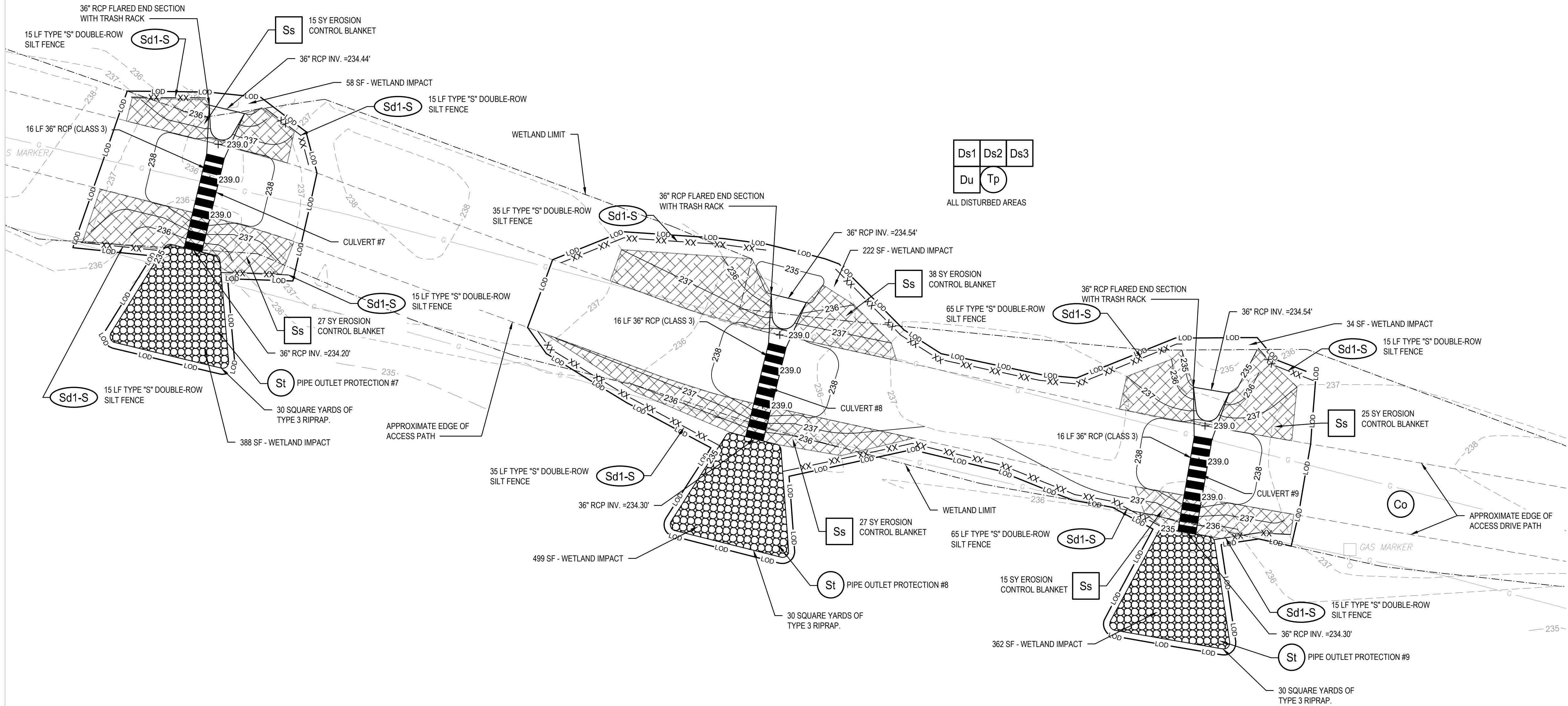
C-8

SHEET: 8 OF 14



SITE PLAN NOTES:

1. THE CONTRACTOR SHALL COORDINATE WITH THE OWNER TO VERIFY THE EXACT LOCATION AND DEPTH OF THE GAS MAIN.
2. THE CONTRACTOR SHALL PLACE GEO-FABRIC AND GRAVEL ON THE ACCESS DRIVE PATH AFTER THE CULVERTS ARE INSTALLED. THE EXACT BEGINNING AND ENDING POINT OF THE PLACEMENT OF GEO-FABRIC AND GRAVEL SHALL BE DETERMINED BY THE OWNER, BUT IT SHALL NOT EXCEED AN AREA OVER 3,000 FEET LONG BY 12 FEET WIDE. SEE SHEET C-14 FOR DETAIL.

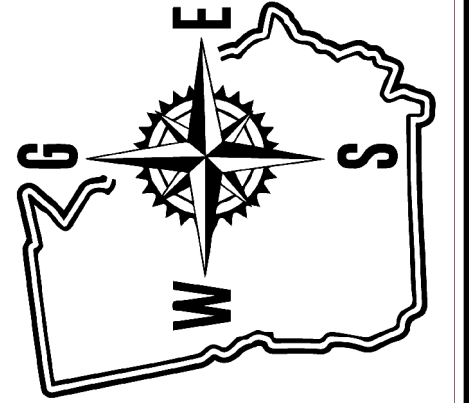


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GAS EASEMENT REMEDIATION
FOR THE
CITY OF WARNER ROBINS



PROJECT NO.: 015.13.3.26
DESIGNED: MTP
CHECKED: MWT
APPROVED: MTP
DATE: MAY 2026

SITE PLAN - CULVERTS 7, 8, AND 9



SCALE

DRAWING NO.

C-9

SHEET: 9 OF 14



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1

EROSION, SEDIMENTATION & POLLUTION CONTROL PLAN CHECKLIST

STAND ALONE CONSTRUCTION PROJECTS GAR100001

SWCD: Central Georgia (Region 4)

Project Name: Gas Easement Remediation Address: Adams Road, Dry Branch, GA 31020

Local Issuing Authority: N/A Date on Plans: May 22, 2026

Name & Email of person filling out checklist: Todd Parker, PE

Plan	Included							
Page #	Y/N	TO BE SHOWN ON ES&PC PLAN						
C-10	Y	1 The applicable Erosion, Sedimentation and Pollution Control Plan Checklist established by the Commission as of January 1 of the year in which the land-disturbing activity was permitted. The completed Checklist <u>must</u> be submitted with the ES&PC Plan or the Plan will not be reviewed. Permit IV.D.1, pg 27						
ALL	Y	2 Level II certification number issued by the Commission, signature and seal of the certified design professional. Signature, seal and Level II number <u>must</u> be on each sheet pertaining to ES&PC Plan or the Plan will not be reviewed. The Level II certification must be issued to the Design Professional, after completion of a GSWCC approved course, and whose signature and seal are on the Plan.						
N/A	N/A	3 Limits of disturbance shall be less than 50 acres at any one time without prior written authorization from the GAEPD District Office. If GAEPD approves the request to disturb 50 acres or more at any one time, the Plan <u>must</u> include the GAEPD approval letter and completed Appendix 1 of this checklist with at least 4 of the chosen BMPs. * A copy of the written approval by GAEPD <u>must</u> be attached to the Plan for the Plan to be reviewed. Permit IV.D.3, pg 28						
C-11	Y	4 The name and phone number of the 24-hour contact responsible for erosion, sedimentation and pollution controls.						
C-11	Y	5 Provide the name, address, email address, and phone number of Primary Permittee.						
C-11	Y	6 Note total and disturbed acreages of the project or phase under construction.						
C-11	Y	7 Provide the GPS location of the construction exit for the site. Give the Latitude and Longitude in decimal degrees.						
ALL	Y	8 Initial date of the Plan and the dates of any revisions made to the Plan including the entity who requested the revisions.						
C-11	Y	9 Descriptions of the nature of construction activity and existing site conditions.						
C-1 & C11	Y	10 Provide vicinity map showing site's relation to surrounding areas. Include designation of specific phase, if necessary.						
C-11	Y	11 Identify the project receiving waters and describe all sensitive adjacent areas including streams, lakes, residential areas, wetlands, marshlands, etc. which may be affected.						
C-11	Y	12 Design professional's certification statement and signature that the site was visited prior to development of the ES&PC Plan as stated on Part IV page 20 of the permit.						
N/A	N/A	13 Design professional's certification statement and signature that the Permittee's ES&PC Plan provides for an appropriate and comprehensive system of BMPs and sampling to meet permit requirements as stated on Part IV page 20 of the permit. *						
N/A	N/A	14 Clearly note the statement that "The design professional who prepared the ES&PC Plan is to inspect and certify the installation of the initial sediment storage requirements and perimeter control BMPs within 7 days after installation. "* * If using this checklist for a project that is less than 1 acre and not part of a common development but within 200 ft of a perennial stream, the * checklist items would be N/A.						
C-11	Y	15 Clearly note the statement that "Non-exempt activities shall not be conducted within the 25 or 50-foot undisturbed stream buffers as measured from the point of wrested vegetation or within 25-feet of the coastal marshland buffer as measured from the Jurisdictional Determination Line without first acquiring the necessary variances and permits."						
N/A	N/A	16 Provide a description of any buffer encroachments and indicate whether a buffer variance is required.						
N/A	N/A	17 Clearly note the statement that "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. "* Effective January 1, 2026						
N/A	N/A	18 Clearly note the statement that "Waste materials shall not be discharged to waters of the State, except as authorized by a Section 404 permit. "* Effective January 1, 2026						
C-11	Y	19 Clearly note statement that "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."						
C-11	Y	20 Clearly note statement that "Erosion control measures will be maintained at all times. If full implementation of the approved Plan does not provide for effective erosion control, additional erosion and sediment control measures shall be implemented to control or treat the sediment source."						
C-11	Y	21 Clearly note the statement "Any disturbed area left exposed for a period greater than 14 days shall be stabilized with mulch or temporary seeding."						
N/A	N/A	22 Any construction activity which discharges storm water into a Biota Impaired Stream Segment, or within 1 linear mile upstream of and within the same watershed as any portion of a Biota Impaired Stream Segment, must comply with Part III.C. of the permit. Include the completed Appendix 1 of this checklist with at least 4 of the chosen BMPs that will be used for those areas of the site which discharge to the Impaired Stream Segment. *						
N/A	N/A	23 If a TMDL Implementation Plan for sediment has been finalized for the Biota Impaired Stream Segment (identified in Item 22 above) at least six months prior to submittal of NOI, the ES&PC Plan must address any site-specific conditions or requirements included in the TMDL Implementation Plan. *						
N/A	N/A	24 BMPs for concrete washdown of tools, concrete mixer chutes, hoppers and the rear of the vehicles. Include statement that washout of the drum at the construction site is prohibited. *						
C-11	Y	25 Provide BMPs for the remediation of all petroleum spills and leaks.						
N/A	N/A	26 Description of the measures that will be installed during the construction process to control pollutants in storm water that will occur after construction operations have been completed. *						
N/A	N/A	27 Description of practices to provide cover for building materials and building products on site. *						
N/A	N/A	28 Description of the practices that will be used to reduce the pollutants in storm water discharges. *						
C-11	Y	29 Description and chart or timeline of the intended sequence of major activities which disturb soils for the major portions of the site (i.e., initial perimeter and sediment storage BMPs, clearing and grubbing activities, excavation activities, utility activities, grading, infrastructure, temporary and final stabilization).						
N/A	N/A	30 Provide complete requirements of <u>Inspections</u> and record keeping by the Primary Permittee. *						
N/A	N/A	31 Provide complete requirements of <u>Sampling Frequency</u> and <u>Reporting</u> of sampling results. *						
N/A	N/A	32 Provide complete details for <u>Retention of Records</u> as per Part IV.F. of the permit. *						
N/A	N/A	33 Description of analytical methods to be used to collect and analyze the samples from each location. *						
N/A	N/A	34 Appendix B rationale for NTU values at all outfall sampling points where applicable. *						
N/A	N/A	35 Delineate all sampling locations on all phases of the Plan, and perennial and intermittent streams and other water bodies into which storm water is discharged. *						
N/A	N/A	36 A description of appropriate controls and measures that will be implemented at the construction site including: (1) initial sediment storage requirements and perimeter control BMPs, (2) intermediate grading and drainage BMPs, and (3) final BMPs. For construction sites where there will be no mass grading and the initial sediment storage requirements and initial perimeter control BMPs, intermediate grading and drainage BMPs, and final BMPs are the same, the Plan may combine all BMPs into a single phase plan. *						
C-3 - C-9	Y	37 Graphic scale and North arrow.						
C-4 - C-9	Y	38 Existing and proposed contour lines with contour lines drawn at an interval in accordance with the following: <table><thead><tr><th>Map Scale</th><th>Ground Slope</th><th>Contour Intervals, ft.</th></tr></thead><tbody><tr><td>1 inch = 100ft or larger scale</td><td>Flat 0 - 2% Rolling 2 - 8% Steep 8% +</td><td>0.5 or 1 1 or 2 2, 5 or 10</td></tr></tbody></table>	Map Scale	Ground Slope	Contour Intervals, ft.	1 inch = 100ft or larger scale	Flat 0 - 2% Rolling 2 - 8% Steep 8% +	0.5 or 1 1 or 2 2, 5 or 10
Map Scale	Ground Slope	Contour Intervals, ft.						
1 inch = 100ft or larger scale	Flat 0 - 2% Rolling 2 - 8% Steep 8% +	0.5 or 1 1 or 2 2, 5 or 10						

N/A

N/A

39 Use of Alternative BMPs whose performance has been documented to be equivalent to or superior to conventional BMPs as certified by a Design Professional (unless disapproved by GAEPD or the Georgia Soil and Water Conservation Commission). Refer to the Alternative BMP Guidance Document found at www.gswcc.georgia.gov.

N/A

N/A

40 Use of Alternative BMP for application to the Equivalent BMP List. Refer to Appendix A-2 of the Manual for Erosion & Sediment Control in Georgia 2016 Edition. *

N/A

N/A

41 Delineation of the applicable 25-foot or 50-foot undisturbed buffers adjacent to State Waters and any additional buffers as required by the Local Issuing Authority. Clearly note and delineate all areas of impact.

C-4 - C-9

Y

42 Delineation of all State Waters and wetlands located on or within 200 feet of the project site.

C-11

Y

43 Delineation and acreage of contributing drainage basins on the project site.

N/A

N/A

44 Provide hydrology study and maps of drainage basins for both the pre- and post-developed conditions. *

C-11

Y

45 Estimate of the runoff coefficient or peak discharge flow of the site prior to and after construction activities are completed. **For solar farm projects, post-construction impervious area shall be calculated as 70% of total solar panel square footage.**

N/A

N/A

46 Storm-drain pipe and weir velocities with appropriate outlet protection to accommodate discharges without erosion. Identify/Delineate at all storm water discharge points.

C-11

Y

47 Soil series for the project site and their delineation.

C-4 - C-9

Y

48 The limits of disturbance for each phase of construction.

C-10

Y

49 Provide a minimum of 67 cubic yards of sediment storage per acre drained using a temporary sediment basin, retrofitted detention pond, and/or excavated inlet sediment traps for each common drainage location. Sediment storage volume must be in place prior to and during all land disturbance activities until final stabilization of the site has been achieved. A written justification explaining the decision to use equivalent controls when a sediment basin is not attainable must be included in the Plan for each common drainage location in which a sediment basin is not provided. A written justification as to why 67 cubic yards of storage is not attainable must also be given. Worksheets from the Manual must be included for structural BMPs and all calculations used by the design professional to obtain the required sediment storage when using equivalent controls. When discharging from sediment basins and impoundments, Permittees are required to utilize outlet structures that withdraw water from the surface, unless infeasible. If outlet structures that withdraw water from the surface are not feasible, a written justification explaining this decision must be included in the Plan.

C-4 - C-9

Y

50 Location of Best Management Practices that are consistent with, and no less stringent than, the Manual for Erosion and Sediment Control in Georgia. Use uniform coding symbols from the Manual Chapter 6, with legend.

C-12-C-14

Y

51 Provide detailed drawings for all structural practices. Specifications must, at a minimum, meet the guidelines set forth in the Manual for Erosion and Sediment Control in Georgia.

C-12-C-14

Y

52 Provide vegetative plan, noting all temporary and permanent vegetative practices. Include species, planting dates and seeding, fertilizer, lime and mulching rates. Vegetative plan shall be site specific for appropriate time of year that seeding will take place and for the appropriate geographic region of Georgia.

* If using this checklist for a project that is less than 1 acre and not part of a common development but within 200 ft of a perennial stream, the * checklist items would be N/A.

Effective January 1, 2026

SITE CONSTRUCTION SCHEDULE

ACTIVITY	MONTHS		
	1	2	3
INITIAL EROSION CONTROL			
INSTALL CULVERTS			
MAINTAIN E & S ITEMS			
CLEANUP			
FINAL STABILIZATION			

CONSTRUCTION START DATE: JULY 1, 2026
CONSTRUCTION COMPLETION DATE: SEPTEMBER 1, 2026

SEDIMENT STORAGE:

SITE SEDIMENT STORAGE REQUIREMENTS						
BASIN	TOTAL DISTURBED AREA (AC.)	REQUIREMENT	REQUIRED STORAGE VOLUME (CY)	STORAGE TYPE	PROVIDED STORAGE VOLUME (CY)	EXCESS STORAGE VOLUME (CY)
1	0.06	67 CY PER AC	4.02	SILT FENCE *	6.47	2.45
2	0.03	67 CY PER AC	2.01	SILT FENCE *	5.59	3.58
3	0.05	67 CY PER AC	3.35	SILT FENCE *	6.90	3.55
4	0.06	67 CY PER AC	4.02	SILT FENCE *	7.34	3.32
5	0.06	67 CY PER AC	4.02	SILT FENCE *	5.83	1.81
6	0.04	67 CY PER AC	2.68	SILT FENCE *	3.88	1.20
7	0.03	67 CY PER AC	2.01	SILT FENCE *	2.59	0.58
8	0.09	67 CY PER AC	6.03	SILT FENCE *	9.92	3.89

* DUE TO LIMITED AMOUNT OF GRADING AT EACH CULVERT CROSSING, A SEDIMENT POND IS NOT FEASIBLE, AS IT WOULD NEED TO BE CONSTRUCTED IN WETLANDS. SEDIMENT STORAGE FOR ALL CROSSINGS WILL BE ACHIEVED BY USING SILT FENCE. (L.F. OF SILT FENCE*2.33 (SILT FENCE HEIGHT)/27)/2 (VOL=3B*H)

PRE AND POST CONSTRUCTION RUNOFF COEFFICIENTS:

1. THE CONSTRUCTION WILL NOT CHANGE THE RUNOFF COEFFICIENT OF THE SITE AS ALL AREAS WILL BE RETURNED TO PRE-DISTURBED CONDITION, WITH THE EXCEPTION OF THE RIP RAP OUTLET PROTECTION. THE ADDITION OF THE RIP RAP IS NOT SIGNIFICANT ENOUGH TO CHANGE THE RUNOFF COEFFICIENT.

UNIFORM CODE				
VEGETATIVE PRACTICES				
CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Ds1	DISTURBED AREA STABILIZATION (WITH MULCHING ONLY)		Ds1	Establishing temporary protection for disturbed areas where seedlings may not have a suitable growing season to produce an erosion retarding cover.
Ds2	DISTURBED AREA STABILIZATION (WITH TEMP SEEDING)		Ds2	Establishing a temporary vegetative cover with fast growing seedlings on disturbed areas.
Ds3	DISTURBED AREA STABILIZATION (WITH PERM SEEDING)		Ds3	Establishing a permanent vegetative cover such as trees, shrubs, vines, grasses, or legumes on disturbed areas.
Du	DUST CONTROL ON DISTURBED AREAS		Du	Controlling surface and air movement of dust on construction site, roadways and similar sites.

STRUCTURAL PRACTICES				
CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Co	CONSTRUCTION EXIT		Co	A crushed stone pad located at the construction site exit to provide a place for removing mud from tires thereby protecting public streets.
Sd1	SEDIMENT BARRIER		Sd1	A barrier to prevent sediment from leaving the construction site. It may be sandbags, bales of straw or hay, brush, logs and poles, gravel, or a silt fence.
St	STORMDRAIN OUTLET PROTECTION		St	A paved or short section of riprap channel at the outlet of a storm drain system preventing erosion from the concentrated runoff.
Tp	TOPSOILING		Tp	The practice of stripping off the more fertile soil, storing it, then spreading it over the disturbed area after completion of construction activities.

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PROJECT NO.: 015.13.3.26
DESIGNED: MTP
CHECKED: MWT
APPROVED: MTP
DATE: MAY 2026

EROSION, SEDIMENTATION
AND POLLUTION CONTROL
DETAILS

DRAWING NO.
C-10
SHEET: 10 OF 14

28

GENERAL INFORMATION/NOTES:

1.

THIS PLAN HAS BEEN PREPARED TO MEET THE REQUIREMENTS UNDER THE STATE OF GEORGIA, DEPARTMENT OF NATURAL RESOURCES, ENVIRONMENTAL PROTECTION DIVISION (EPD), GENERAL PERMIT NO. GAR100001 FOR AUTHORIZATION TO DISCHARGE UNDER THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES), STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY FOR INFRASTRUCTURE CONSTRUCTION PROJECTS. DAILY, WEEKLY AND MONTHLY INSPECTIONS AS REQUIRED BY PERMIT NO. GAR100001 SHALL BE PERFORMED BY CERTIFIED PERSONNEL PROVIDED BY THE CONTRACTOR. SAMPLING REQUIREMENTS AS REQUIRED BY PERMIT NO. GAR100001 SHALL BE PERFORMED BY CERTIFIED PERSONNEL PROVIDED BY THE CONTRACTOR.

OWNER SHALL BE RESPONSIBLE FOR FILING NOTICE OF INTENT (NOI) AND NOTICE OF TERMINATION (NOT) WITH GOVERNING AGENCY (GA EPD) AS NECESSARY.

PRIMARY PERMITTEE IS RESPONSIBLE FOR PROVIDE THE APPLICABLE PORTIONS OF THE ESPC PLAN TO ANY SECONDARY PERMITTEES PRIOR TO ANY CONSTRUCTION ACTIVITY BY THE SECONDARY PERMITTEE. SECONDARY PERMITTEE SHALL ALSO SIGN THE PORTION OF THE PLAN APPLICABLE TO THEIR SITE.

CONTRACTOR SHALL MAKE SURE CONSTRUCTION IS IN ACCORDANCE WITH REGULATIONS OF THE NPDES PERMIT NO. GAR100001. THIS INCLUDES BUT IS NOT LIMITED TO:

- SITE STABILIZATION PRACTICES AND VEGETATIVE AND STRUCTURE EROSION CONTROL PRACTICES
- BMP MAINTENANCE AND INSPECTIONS
- POLLUTION PREVENTION PLAN AND PRACTICES
- SPILL CONTROL PRACTICES AND WASTE CONTROL PRACTICES
- MATERIAL MANAGEMENT PRACTICES FOR SPILL PREVENTION PLANS
- WETLAND AND STATE WATER PROTECTION PRACTICES
- MONITORING PLANS AND PRACTICES AND REPORTING PRACTICES

MAXIMUM CUT SLOPES ARE 5H:1V, UNLESS OTHERWISE NOTED. MAXIMUM FILL SLOPES ARE 5H:1V UNLESS OTHERWISE NOTED.

CLEARING LIMITS, BUFFERS, AND TREE SAVE AREAS SHALL BE CLEARLY MARKED IN THE FIELD BY THE CONTRACTOR BY FLAGGING OR FENCING AND SIGNAGE, PRIOR TO COMMENCEMENT OF ANY LAND DISTURBANCE ACTIVITIES OR CLEARING/GRUBBING ACTIVITIES.

CONTRACTOR SHALL NOT DISTURB UNDERGROUND UTILITIES WHILE INSTALLING EROSION, SEDIMENTATION AND POLLUTION CONTROL PRACTICES. CONTRACTOR SHALL HAVE ALL UTILITIES FIELD LOCATED BEFORE PROCEEDING WITH ANY WORK.

CONTRACTOR SHALL NOTIFY DESIGN PROFESSIONAL AND OWNER 2 BUSINESS DAYS BEFORE BEGINNING CONSTRUCTION.

ALL CONSTRUCTION DEBRIS AND/OR WASTE SHALL BE TAKEN TO A STATE APPROVED LANDFILL. NO BURNING OR BURYING OF THESE MATERIALS IS ALLOWED.

THE INSTALLATION OF EROSION AND SEDIMENTATION CONTROL MEASURES AND PRACTICES SHALL OCCUR PRIOR TO OR CONCURRENT WITH LAND DISTURBING ACTIVITIES AND CONSTRUCTION ON THE SITE AND SHALL BE MAINTAINED UNTIL PERMANENT GROUND COVER IS ESTABLISHED TO 90%.

CONSTRUCTION EXIT, SILT FENCE, AND HAYBALE CHECKDAMS SHALL BE INSTALLED PRIOR TO ANY GRADING.

STORMWATER MANAGEMENT FACILITY, OUTLET STRUCTURES, AND TEMPORARY SEDIMENT POND FEATURES ARE TO BE CONSTRUCTED AND FULLY OPERATION PRIOR TO ANY OTHER CONSTRUCTION OR GRADING.

ALL EROSION, SEDIMENTATION AND POLLUTION CONTROL, BEST MANAGEMENT PRACTICES SHALL BE INSPECTED AND REPAIRED OF DAMAGE DAILY. ANY ACCUMULATED SILT SHALL BE REMOVED WHEN REQUIRED BY THE PERMIT, SPREAD ON SITE AND CONTROLLED WITH TEMPORARY MULCHING AND/OR GRASSING.

EROSION, SEDIMENTATION, AND POLLUTION CONTROL BEST MANAGEMENT PRACTICES SHALL BE MAINTAINED AT ALL TIMES. ADDITIONAL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE INSTALLED IF DEEMED NECESSARY BY ON-SITE INSPECTION OR AS REQUIRED BY ENGINEER OR LOCAL JURISDICTION INSPECTOR.

MAINTENANCE OF ALL SOIL EROSION AND SEDIMENTATION CONTROL MEASURES AND PRACTICES WHETHER TEMPORARY OR PERMANENT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

ANY DISCREPANCY WITHIN THESE PLANS SHALL BE REFERRED TO THE DESIGN PROFESSIONAL BY THE CONTRACTOR FOR CLARIFICATION BEFORE PROCEEDING WITH WORK.

CONTRACTOR SHALL PROVIDE TEMPORARY DIVERSION BERMS AND DOWN DRAINS ON FILL SLOPES TO PREVENT EROSION PRIOR TO STABILIZATION.

DEVELOPER IS TO CLEAN OUT ACCUMULATED SILT IN DETENTION POND AT END OF CONSTRUCTION WHEN DISTURBED AREAS HAVE BEEN STABILIZED.

EXISTING SITE CONDITIONS:

THE SITE IS AN EXISTING GAS MAIN EASEMENT ACCESS ROAD. IT IS LOCATED ALONG THE TOP OF A LEVEE IN A SWAMP.

2

LEVEL II CERTIFIED DESIGN PROFESSIONAL:

MICHAEL TODD PARKER, P.E.

CERTIFICATION NO: 64207

EXPIRATION DATE: 6-23-2026

EMAIL: TODD.PARKER@GWESLLC.COM

4

24 HR EMERGENCY EROSION CONTROL CONTACT:

MONTIE WALTERS

478-302-5441

MWALTERS@WRGA.GOV

5

PRIMARY PERMITTEE CONTACT INFORMATION:

PRIMARY PERMITTEE: CITY OF WARNER ROBINS

CONTACT NAME: MONTIE WALTERS

ADDRESS: 97 CLEWIS DRIVE, WARNER ROBINS, GA 31088

PHONE NUMBER: 478-302-5441

EMAIL: MWALTERS@WRGA.GOV

7

LAT: 32.5728°
LONG: -83.5236°

3

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Co

3.TOTAL PROJECT AREA: 3.7 AC.

TOTAL DISTURBED AREA: 0.4 AC.

9

NATURE OF CONSTRUCTION ACTIVITY:

ADDRESS: ADAMS ROAD, DRY BRANCH, GEORGIA 31020

PROJECT TYPE: CULVERT INSTALLATIONS

CONSTRUCTION DESCRIPTION: CULVERT INSTALLATIONS ALONG GAS EASEMENT ACCESS AND NECESSARY GRADING FOR PROVIDING COVER OVER THE CULVERTS.

RECEIVING WATERS:THE OCMULGEE RIVER

11

RECEIVING WATERS/SENSITIVE AREAS:

1. THE RECEIVING WATERS FOR THIS PROJECT IS THE OCMULGEE RIVER.

2. THERE ARE WETLANDS OR STATE WATERS LOCATED WITHIN THE LIMITS OF CONSTRUCTION.

3. ALL DOWNSTREAM SENSITIVE AREAS WILL BE PROTECTED FROM NEGATIVE IMPACT BY INSTALLATION OF SILT FENCE, MULCHING/GRASSING, AND STORM OUTLET PROTECTION TO PREVENT THE ESCAPE OF SEDIMENT FROM THE SITE.

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44

CONTRIBUTING BASINS

REFER TO HYDROLOGY STUDY FOR DELINEATION AND ACREAGE OF CONTRIBUTING DRAINAGE BASINS WITHIN AND OFF-SITE OF THE PROJECT.

9

LAND DISTURBANCE CONSTRUCTION ACTIVITY SUMMARY:

1

FILE NOTICE OF INTENT WITH GA EPP AND SUBMIT ASSOCIATED FEES.

2

PRECONSTRUCTION MEETING WITH ENGINEER (INCLUDING DESIGN PROFESSIONAL), OWNER, AND CONTRACTOR.

3

CONDUCT INITIAL MONITORING REQUIREMENTS.

4

INSTALL CONSTRUCTION EXIT

5

INSTALL SILT FENCE.

6

PROVIDE MULCHING AND TEMPORARY GROUND COVER FOR DISTURBED AREAS.

7

INITIATE 7 DAY REVIEW MEETING WITH DESIGN PROFESSIONAL.

8

INSTALL STORM WATER OUTLET PROTECTION AND CONTINUE MULCHING/TEMPORARY GRASSING/PERMANENT GRASSING.

9

CONTINUE MAINTENANCE OF STORM WATER BMPs AND SAMPLING/REPORTING REQUIRED BY NPDES PERMIT.

10

ACHIEVE FINAL SITE STABILIZATION.

11

SITE REVIEW MEETING WITH ENGINEER, OWNER, AND CONTRACTOR.

12

REMOVE ANY TEMPORARY BMPs ONCE SITE STABILIZATION IS ACHIEVED AND SITE IS APPROVED BY ENGINEER AND OWNER.

13

FINAL SITE MEETING WITH ENGINEER, OWNER, AND CONTRACTOR.

14

FILE NOTICE OF TERMINATION WITH GA EPP.

15

STATE BUFFER NOTES:

16

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

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NO BUFFER VARIANCE IS REQUIRED FOR THIS PROJECT AS NO CONSTRUCTION WILL TAKE PLACE WITHIN THE STATE BUFFER.

18

NPDES PERMIT PART IV.

19

(I), EXCEPT AS PROVIDED IN PART IV., (III), BELOW, NO CONSTRUCTION ACTIVITIES SHALL BE CONDUCTED WITHIN A 25 FOOT BUFFER ALONG THE BANKS OF ALL STATE VARIANTS, AS MEASURED HORIZONTALLY FROM THE POINT WHERE VEGETATION HAS BEEN WRESTED BY NORMAL STREAM FLOW OR WAVE ACTION, EXCEPT WHERE THE DIRECTOR HAS DETERMINED TO ALLOW A VARIANCE THAT IS AT LEAST AS PROTECTIVE OF NATURAL RESOURCES AND THE ENVIRONMENT IN ACCORDANCE WITH THE PROVISIONS OF O.C.G.A. 12-2-6, OR WHERE A DRAINAGE STRUCTURE OR A ROADWAY DRAINAGE STRUCTURE MUST BE CONSTRUCTED, PROVIDED THAT ADEQUATE EROSION CONTROL MEASURES ARE INCORPORATED IN THE PROJECT PLANS AND SPECIFICATIONS AND ARE IMPLEMENTED, OR ALONG ANY EPHEMERAL STREAM, THE BUFFER SHALL NOT APPLY TO THE FOLLOWING LAND DISTURBING ACTIVITIES, PROVIDED THAT THEY OCCUR AT AN ANGLE, AS MEASURED FROM THE POINT OF CROSSING, WITHIN 25 DEGREES OF PERPENDICULAR TO THE STREAM, CAUSE A WIDTH OF DISTURBANCE OF NOT MORE THAN 50 FEET WITHIN THE BUFFER, AND ADEQUATE EROSION CONTROL MEASURES ARE INCORPORATED INTO THE PROJECT PLANS AND SPECIFICATIONS ARE IMPLEMENTED: (1) STREAM CROSSINGS FOR WATER LINES OR (2) STREAM CROSSINGS FOR SEWER LINES;

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(II), NO CONSTRUCTION ACTIVITIES SHALL BE CONDUCTED WITHIN A 50 FOOT BUFFER, AS MEASURED HORIZONTALLY FROM THE POINT WHERE VEGETATION HAS BEEN WRESTED BY NORMAL STREAM FLOW OR WAVE ACTION, ALONG THE BANKS OF ANY STATE VARIANTS CLASSIFIED AS "TROUT STREAMS" EXCEPT WHEN APPROVAL IS GRANTED BY THE DIRECTOR FOR ALTERNATE BUFFER REQUIREMENTS IN ACCORDANCE WITH THE PROVISIONS OF O.C.G.A. 12-2-6, OR WHERE A ROADWAY DRAINAGE STRUCTURE MUST BE CONSTRUCTED, PROVIDED, HOWEVER, THAT SMALL SPRINGS AND STREAMS CLASSIFIED AS "TROUT STREAMS" WHICH DISCHARGE AN AVERAGE ANNUAL FLOW OF 25 GALLONS PER MINUTE OR LESS SHALL HAVE A 25 FOOT BUFFER OR THEY MAY BE PIPED, AT THE DISCRETION OF THE PERMITTEE, PURSUANT TO THE TERMS OF A PLAN PROVIDING FOR A GENERAL VARIANCE FLOWMULATED BY THE BOARD OF NATURAL RESOURCES INCLUDING NOTIFICATION OF SUCH STOP AND THE LOCAL ISSUING AUTHORITY TO THE LOCATION AND EXTENT OF THE PIPING AND PRESORBED METHOD OF CONSTRUCTION FOR MINIMIZING THE IMPACT OF SUCH PIPING AND FOR MEASURING THE VOLUME OF WATER DISCHARGED BY THE STREAM. ANY SUCH PIPE MUST STOP SHORT OF THE DOWNSTREAM PERMITTEE'S PROPERTY, AND THE PERMITTEE MUST COMPLY WITH THE BUFFER REQUIREMENT FOR ANY ADJACENT TROUT STREAMS. THE BUFFER SHALL NOT APPLY TO THE FOLLOWING LAND DISTURBING ACTIVITIES, PROVIDED THAT THEY OCCUR AT AN ANGLE, AS MEASURED FROM THE POINT OF CROSSING, WITHIN 25 DEGREES OF PERPENDICULAR TO THE STREAM, CAUSE A WIDTH OF DISTURBANCE OF NOT MORE THAN 50 FEET WITHIN THE BUFFER, AND ADEQUATE EROSION CONTROL MEASURES ARE INCORPORATED INTO THE PROJECT PLANS AND SPECIFICATIONS AND ARE IMPLEMENTED: (1) STREAM CROSSINGS FOR WATER LINES OR (2) STREAM CROSSINGS FOR SEWER LINES; AND

21

(III), EXCEPT AS PROVIDED ABOVE, FOR BUFFERS REQUIRED PURSUANT TO PART IV., (I) AND (II), NO CONSTRUCTION ACTIVITIES SHALL BE CONDUCTED WITHIN A BUFFER AND A BUFFER SHALL REMAIN IN ITS NATURAL, UNDISTURBED, STATE OF VEGETATION UNTIL ALL LAND DISTURBING ACTIVITIES ON THE CONSTRUCTION SITE ARE COMPLETED, DURING COVERAGE UNDER THIS PERMIT, A BUFFER CANNOT BE THINNED OR TRIMMED OF VEGETATION AND A PROTECTIVE VEGETATIVE COVER MUST REMAIN TO PROTECT WATER QUALITY AND AQUATIC HABITAT AND A NATURAL CANOPY MUST BE LEFT IN SUFFICIENT QUANTITY TO KEEP SHADE ON THE STREAM BED.

22

(IV), NON-EXEMPT ACTIVITIES WILL NOT BE CONDUCTED WITHIN 25 FEET OF THE COASTAL MARSHLAND BUFFER AS MEASURED FROM THE JURISDICTIONAL DETERMINATION LINE WITHOUT FIRST ACQUIRING THE NECESSARY VARIANCES AND PERMITS.

23

GSWCC EROSION CONTROL NOTES:

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1. AMENDMENTS/REVISIONS TO THE ESDC PLAN WHICH HAVE A SIGNIFICANT EFFECT ON BMPs WITH A HYDRAULIC COMPONENT MUST BE CERTIFIED BY THE DESIGN PROFESSIONAL.

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2. 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.

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3. EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.

27

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

28

5. CONSTRUCTION ACTIVITIES DOES NOT DISCHARGE STORM WATER INTO AN IMPAIRED STREAM SEGMENT OR WITHIN 1 MILE UPSTREAM OF, AND WITHIN THE SAME WATERSHED AS, ANY PORTION OF A BIOTA IMPAIRED STREAM SEGMENT.

29

SPILL CLEANUP:

30

1. LOCAL, STATE AND MANUFACTURER'S RECOMMENDED METHODS FOR SPILL CLEAN UP WILL BE CLEARLY POSTED AND PROCEDURES WILL BE MADE AVAILABLE TO SITE PERSONNEL.

31

2. MATERIAL AND EQUIPMENT NECESSARY FOR SPILL CLEANUP WILL BE KEPT IN THE MATERIAL STORAGE AREAS. TYPICAL MATERIALS AND EQUIPMENT INCLUDES, BUT IS NOT LIMITED TO, BROOMS, DUSTPANS, MOPS, RAGS, GLOVES, GOGGLES, CAT LITTER, SAND, SAWDUST AND PROPERLY LABELED PLASTIC AND METAL WASTE CONTAINERS.

32

3. SPILL PREVENTION PRACTICES AND PROCEDURES WILL BE REVIEWED AFTER A SPILL AND ADJUSTED AS NECESSARY TO PREVENT FUTURE SPILLS. ALL SPILLS WILL BE CLEANED UP IMMEDIATELY UPON DISCOVERY.

33

4. ALL SPILLS WILL BE REPORTED AS REQUIRED BY LOCAL, STATE AND FEDERAL REGULATIONS. FOR SPILLS THAT IMPACT SURFACE WATER (LEAVE A SHEEN ON SURFACE WATER), THE NATIONAL RESPONSE CENTER (NRC) WILL BE CONTACTED WITHIN 24 HOURS AT 1-800-424-8802. FOR SPILLS OF AN UNKNOWN AMOUNT, THE NRC WILL BE CONTACTED WITHIN 24 HOURS AT 1-800-424-8802. FOR SPILLS GREATER THAN 25 GALLONS AND NO SURFACE WATER IMPACTS, THE GEORGIA EPP WILL BE CONTACTED WITHIN 24 HOURS. FOR SPILLS LESS THAN 25 GALLONS AND NO SURFACE WATER IMPACTS, THE SPILL WILL BE CLEANED UP AND LOCAL AGENCIES WILL BE CONTACTED AS REQUIRED. THE CONTRACTOR SHALL NOTIFY THE DESIGN PROFESSIONAL WHO PREPARED THIS PLAN IF MORE THAN 1,320 GALLONS OF PETROLEUM IS STORED ON SITE (THIS INCLUDES CAPACITIES OF EQUIPMENT) OR IF ANY ONE PIECE OF EQUIPMENT HAS CAPACITY GREATER THAN 660 GALLONS.

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5. THE CONTRACTOR WILL NEED A SPILL PREVENTION CONTAINMENT AND COUNTERMEASURES PLAN PREPARED BY THAT DESIGN PROFESSIONAL.

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6. ALL POLLUTANTS FROM WASTE DISPOSAL PRACTICES, SOIL ADDUCTS, REMEDIATION OF SPILLS AND LEAKS OF PETROLEUM PRODUCTS, CONCRETE TRUCK WASHOUT, ETC., SHOULD ANY OF THESE OCCUR, WILL BE CONTROLLED BY THE IMPLEMENTATION OF APPROPRIATE BEST MANAGEMENT PRACTICES.

36

7. THE SITE WILL BE IN COMPLIANCE WITH ALL APPLICABLE STATE AND LOCAL WASTE DISPOSAL, SANITARY SEWER OR SEPTIC SYSTEM REGULATIONS.

37

BMP'S FOR PETROLEUM SPILLS AND LEAKS:

38

1. FIX ANY LEAKS IMMEDIATELY, MAINTAIN AND CLEAN EQUIPMENT REGULARLY.

39

2. DESIGNATE AREAS FOR EQUIPMENT MAINTENANCE AND FUELING THAT ARE LOCATED ON LEVEL GROUND AND AWAY FROM ANY WATER SOURCES.

40

3. PARK AND SERVICE EQUIPMENT ON TOP OF TARPS TO INSURE ANY SPILLS OR LEAKS DO NOT GET INTO THE GROUND.

41

4. STORE ALL FLUIDS AND CONTAINERS IN A LEAK-PROOF, LOCKED CONTAINER TO INSURE SAFE STORAGE.

42

5. COLLECT AND REMOVE ALL LEFTOVER LUBRICANTS, CONTAINERS, AND TRASH, ESPECIALLY TIRES, BATTERIES, PIECES OR PARTS OF EQUIPMENT, AND SPILL CONTAINERS.

43

6. MAINTAIN A SPILL CONTAINMENT AND CLEAN UP KIT. AT A MINIMUM, A KIT FOR PETROLEUM PRODUCTS SHOULD INCLUDE:

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6.1. A LEAK-PROOF CONTAINER TO CATCH LEAKING FLUID.

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6.2. A SHOVEL, RAKE, AND OTHER HAND TOOLS TO CREATE DIRT BERM.

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6.3. ABSORBENT PADS, ADSORBENT SUBSTANCES SUCH AS CAT LITTER OR OIL DRYING AGENTS, THAT WILL ABSORB FLUIDS BEFORE SOAKING INTO GROUND.

47

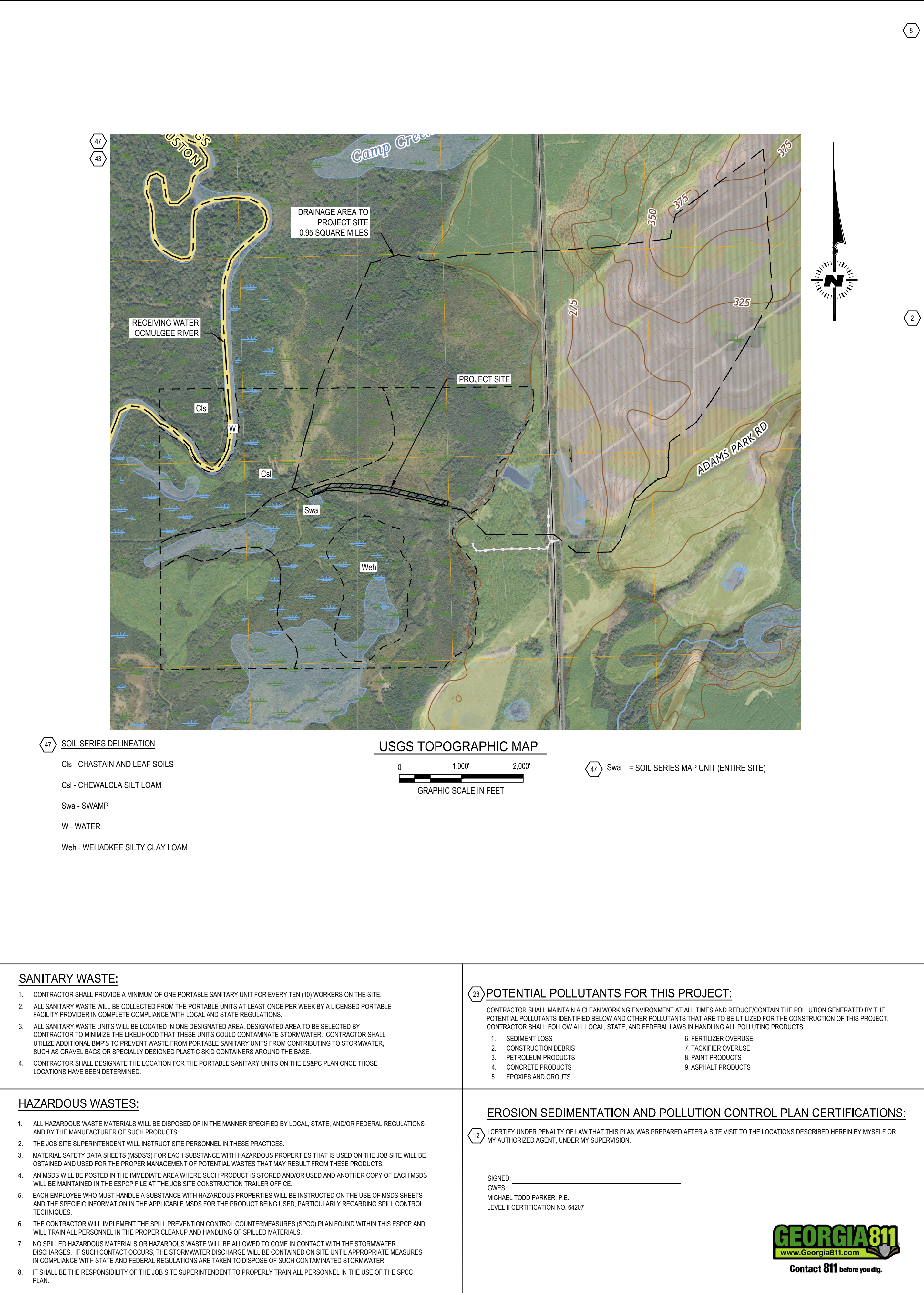
6.4. VARIOUS HOSES, PLUGS, AND CLAMPS TO CONTROL A HYDRAULIC LINE BREAK. A VARIETY OF LOCKING "VISE GRIPS" PLIERS CAN BE USED IN EMERGENCY.

48

6.5. LARGE PLASTIC BAGS TO STORE ANY CONTAMINATED MATERIALS FOR DISPOSAL.

49

6.6. TEMPORARY FUELING ARE

[illegible]

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DEFINITION
THE ESTABLISHMENT OF TEMPORARY VEGETATIVE COVER WITH FAST GROWING SEEDINGS FOR SEASONAL PROTECTION ON DISTURBED OR DENUDED AREAS.

- PURPOSE**
- TO REDUCE RUNOFF AND SEDIMENT DAMAGE OF DOWN STREAM RESOURCES
 - TO PROTECT THE SOIL SURFACE FROM EROSION
 - TO IMPROVE WILDLIFE HABITAT
 - TO IMPROVE AESTHETICS
 - TO IMPROVE FILTH, INFILTRATION AND AERATION AS WELL AS ORGANIC MATTER FOR PERMANENT PLANTINGS

REQUIREMENT FOR REGULATORY COMPLIANCE
MULCH OR TEMPORARY GRASSING SHALL BE APPLIED TO ALL EXPOSED AREAS WITHIN 14 DAYS OF DISTURBANCE. TEMPORARY GRASSING, INSTEAD OF MULCH, CAN BE APPLIED TO ROUGH GRADED AREAS THAT WILL BE EXPOSED FOR LESS THAN SIX MONTHS. IF AN AREA IS EXPECTED TO BE UNDISTURBED FOR LONGER THAN SIX MONTHS, PERMANENT PERENNIAL VEGETATION SHALL BE USED. IF OPTIMUM PLANTING CONDITIONS FOR TEMPORARY GRASSING IS LACKING, MULCH CAN BE USED AS A SINGULAR EROSION CONTROL DEVICE FOR UP TO SIX MONTHS BUT IT SHALL BE APPLIED AT THE APPROPRIATE DEPTH, ANCHORED, AND HAVE A CONTINUOUS 90% COVER OR GREATER OF THE SOIL SURFACE. REFER TO SPECIFICATION DS1-DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDING).

CONDITIONS
TEMPORARY VEGETATIVE MEASURES SHOULD BE COORDINATED WITH PERMANENT MEASURES TO ASSURE ECONOMICAL AND EFFECTIVE STABILIZATION. MOST TYPES OF TEMPORARY VEGETATION ARE IDEAL TO USE AS COMPANION CROPS UNTIL THE PERMANENT VEGETATION IS ESTABLISHED. NOTE: SOME SPECIES OF TEMPORARY VEGETATION ARE NOT APPROPRIATE FOR COMPANION CROP PLANTINGS BECAUSE OF THEIR POTENTIAL TO OUT-COMPETE THE DESIRED SPECIES (E.G. ANNUAL RYEGRASS), CONTACT NRCS OR THE LOCAL SWCD FOR MORE INFORMATION.

SPECIFICATIONS
GRADING AND SHAPING
EXCESSIVE WATER RUN-OFF SHALL BE REDUCED BY PROPERLY DESIGNED AND INSTALLED EROSION CONTROL PRACTICES SUCH AS CLOSED DRAINS, DITCHES, DIKES, DIVERSIONS, SEDIMENT BARRIERS AND OTHERS.

NO SHAPING OR GRADING IS REQUIRED IF SLOPES CAN BE STABILIZED BY HAND-SEEDED VEGETATION OR IF HYDRAULIC SEEDING EQUIPMENT IS TO BE USED.

SEEDBED PREPARATION
WHEN A HYDRAULIC SEEDER IS USED, SEEDBED PREPARATION IS NOT REQUIRED. WHEN USING CONVENTIONAL OR HAND-SEEDING, SEEDBED PREPARATION IS NOT REQUIRED IF THE SOIL MATERIAL IS LOOSE AND NOT SEALED BY RAINFALL.

WHEN SOIL HAS BEEN SEALED BY RAINFALL OR CONSISTS OF SMOOTH CUT SLOPES, THE SOIL SHALL BE PITTED, TRENCHED OR OTHERWISE SCARIFIED TO PROVIDE A PLACE FOR SEED TO LODGE AND GERMINATE.

LIME AND FERTILIZER
AGRICULTURAL LIME IS REQUIRED UNLESS SOIL TESTS INDICATE OTHERWISE. APPLY AGRICULTURAL LIME AT A RATE DETERMINED BY SOIL TEST FOR PH. QUICK ACTING LIME SHOULD BE INCORPORATED TO MODIFY PH DURING THE GERMINATION PERIOD. BIO STIMULANTS SHOULD ALSO BE CONSIDERED WHEN THERE IS LESS THAN 3% ORGANIC MATTER IN THE SOIL. GRADED AREAS REQUIRE LIME APPLICATION. SOILS MUST BE TESTED TO DETERMINE REQUIRED AMOUNTS OF FERTILIZER AND AMENOMENTS. FERTILIZER SHOULD BE APPLIED BEFORE LAND PREPARATION AND INCORPORATED WITH A DISK, RIPPER, OR CHISEL. ON SLOPES TOO STEEP FOR, OR INACCESSIBLE TO EQUIPMENT, FERTILIZER SHALL BE HYDRAULICALLY APPLIED. PREFERABLY IN THE FIRST PASS WITH SEED AND SOME HYDRAULIC MULCH, THEN TOPPED WITH THE REMAINING REQUIRED APPLICATION RATE

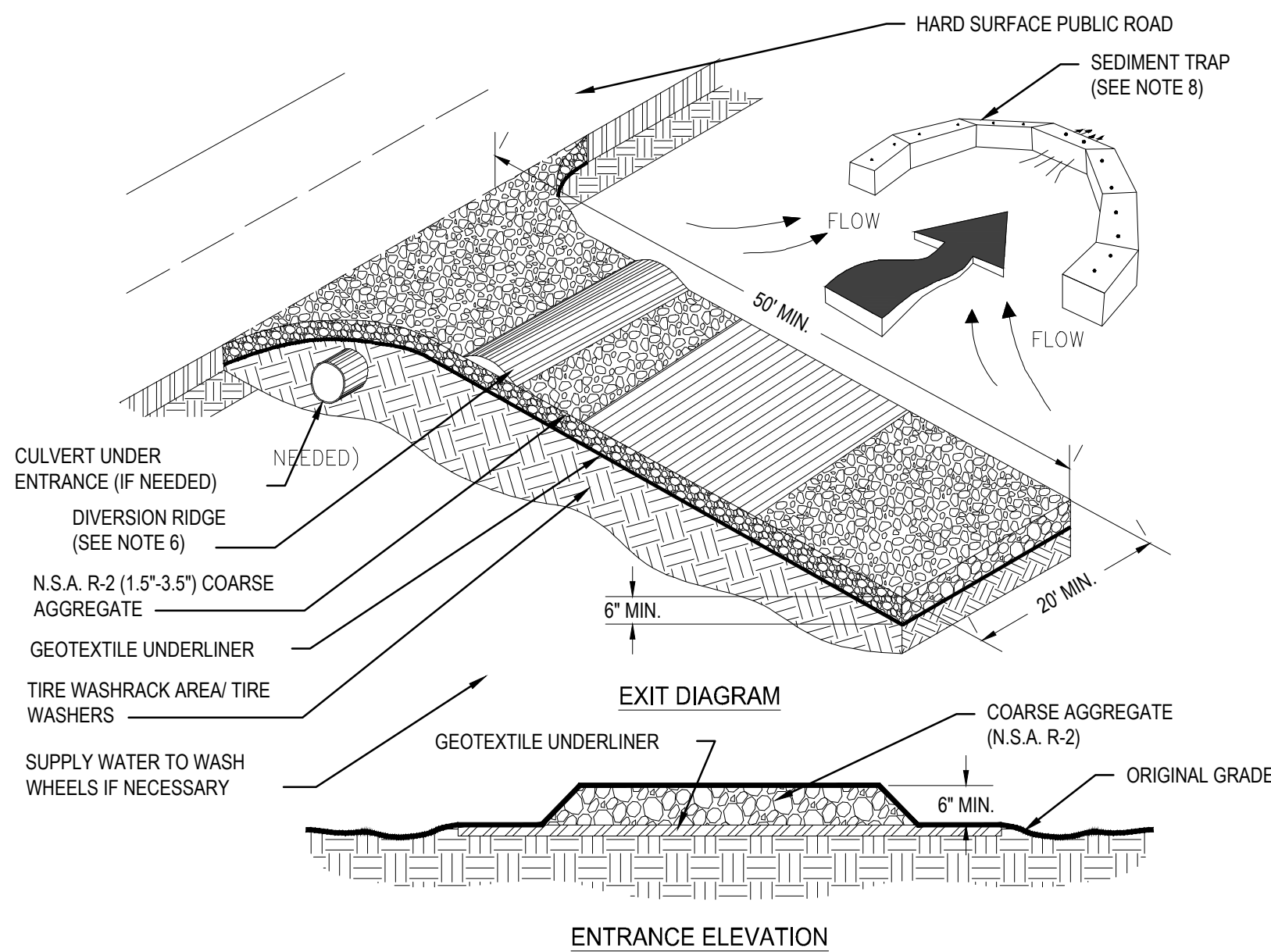
SEEDING
SELECT A GRASS OR GRASS-LEGUME MIXTURE SUITABLE TO THE AREA AND SEASON OF THE YEAR. SEED SHALL BE APPLIED UNIFORMLY BY HAND, CYCLONE SEEDER, DRILL, CULTIPACKER-SEEDER, OR HYDRAULIC SEEDER (SLURRY INCLUDING SEED AND FERTILIZER). DRILL OR CULTIPACKER SEEDERS SHOULD NORMALLY PLACE SEED ONE-QUARTER TO ONE-HALF INCH DEEP. APPROPRIATE DEPTH OF PLANTING IS TEN TIMES THE SEED DIAMETER. SOIL SHOULD BE "RAKED" LIGHTLY TO COVER SEED WITH SOIL IF SEEDED BY HAND. SEE TABLE 6-4.1

MULCHING
TEMPORARY VEGETATION CAN, IN MOST CASES, BE ESTABLISHED WITHOUT THE USE OF MULCH. PROVIDED THERE IS LITTLE TO NO EROSION POTENTIAL. HOWEVER, THE USE OF MULCH CAN OFTEN ACCELERATE AND ENHANCE GERMINATION AND VEGETATION ESTABLISHMENT. MULCH WITHOUT SEEDING SHOULD BE CONSIDERED FOR SHORT TERM PROTECTION. REFER TO DS1 - DISTURBED AREA STABILIZATION (WITH MULCHING ONLY).

IRRIGATION
DURING TIMES OF DROUGHT, WATER SHALL BE APPLIED AT A RATE NOT CAUSING RUNOFF AND EROSION. THE SOIL SHALL BE THOROUGHLY WETTED TO A DEPTH THAT WILL INSURE GERMINATION OF THE SEED. SUBSEQUENT APPLICATIONS SHOULD BE MADE WHEN NEEDED.

MONTH	TEMPORARY SEED	RATE (PER AC.)	MONTH	TEMPORARY SEED	RATE (PER AC.)
JANUARY	ANNUAL RYEGRASS	40 LB.	JULY	SUDANGRASS PEARL MILLET	60 LB. 50 LB.
FEBRUARY	ANNUAL RYEGRASS	40 LB.			
MARCH	ANNUAL RYEGRASS	40 LB.	AUGUST	SUDANGRASS ANNUAL RYE GRASS PEARL MILLET	60 LB. 40 LB. 50 LB.
APRIL	SUDANGRASS PEARL MILLET	60 LB. 50 LB.	SEPTEMBER	ANNUAL RYEGRASS	40 LB.
MAY	SUDANGRASS PEARL MILLET	60 LB. 50 LB.	OCTOBER	ANNUAL RYEGRASS	40 LB.
			NOVEMBER	ANNUAL RYEGRASS	40 LB.
JUNE	SUDANGRASS PEARL MILLET	80 LB. 50 LB.	DECEMBER	ANNUAL RYEGRASS	40 LB.

52 Ds2 DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDING)



DEFINITION
APPLYING PLANT RESIDUES OR OTHER SUITABLE MATERIALS, PRODUCED ON THE SITE IF POSSIBLE, TO THE SOIL SURFACE.

- PURPOSE**
- TO REDUCE RUNOFF AND EROSION
 - TO CONSERVE MOISTURE
 - TO PREVENT SURFACE COMPACTION OR CRUSTING
 - TO CONTROL UNDESIRABLE VEGETATION
 - TO MODIFY SOIL TEMPERATURE
 - TO INCREASE BIOLOGICAL ACTIVITY IN THE SOIL

REQUIREMENT FOR REGULATORY COMPLIANCE
MULCH OR TEMPORARY GRASSING SHALL BE APPLIED TO ALL EXPOSED AREAS WITHIN 14 DAYS OF DISTURBANCE. MULCH CAN BE USED AS A SINGULAR EROSION CONTROL DEVICE FOR UP TO SIX MONTHS, BUT IT SHALL BE APPLIED AT THE APPROPRIATE DEPTH, DEPENDING ON THE MATERIAL USED, ANCHORED AND HAVE A CONTINUOUS 90% COVER OR GREATER OF THE SOIL SURFACE.

MAINTENANCE SHALL BE REQUIRED TO MAINTAIN APPROPRIATE DEPTH AND 90% COVER. TEMPORARY VEGETATION MAY BE EMPLOYED INSTEAD OF MULCH IF THE AREA WILL REMAIN UNDISTURBED FOR LESS THAN SIX MONTHS.

IF ANY AREA WILL REMAIN UNDISTURBED FOR GREATER THAN SIX MONTHS, PERMANENT VEGETATIVE TECHNIQUES SHALL BE EMPLOYED. REFER TO DS2-DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDING), DS3- DISTURBED AREA STABILIZATION (WITH PERMANENT SEEDING), AND DS4- DISTURBED AREA STABILIZATION (WITH SODDING).

SPECIFICATIONS
MULCHING WITHOUT SEEDING
THIS STANDARD APPLIES TO GRADED OR CLEARED AREAS WHERE SEEDINGS MAY NOT HAVE A SUITABLE GROWING SEASON TO PRODUCE AN EROSION RETARDANT COVER, BUT CAN BE STABILIZED WITH A MULCH COVER.

- SITE PREPARATION**
1. GRADE TO PERMIT THE USE OF EQUIPMENT FOR APPLYING AND ANCHORING MULCH.
 2. INSTALL NEEDED EROSION CONTROL MEASURES AS REQUIRED SUCH AS DIKES, DIVERSIONS, BERMS, TERRACES AND SEDIMENT BARRIERS.
 3. LOOSEN COMPACT SOIL TO A MINIMUM DEPTH OF 3 INCHES.

MULCHING MATERIALS
SELECT ONE OF THE FOLLOWING MATERIALS AND APPLY AT THE DEPTH INDICATED:

1. DRY STRAW OR HAY SHALL BE APPLIED AT A DEPTH OF 2 TO 4 INCHES PROVIDING COMPLETE SOIL COVERAGE. ONE ADVANTAGE OF THIS MATERIAL IS EASY APPLICATION.
2. WOOD WASTE (CHIPS, SAWDUST OR BARK) SHALL BE APPLIED AT A DEPTH OF 2 TO 3 INCHES. ORGANIC MATERIAL FROM THE CLEARING STAGE OF DEVELOPMENT SHOULD REMAIN ON SITE, BE CHIPPED, AND APPLIED AS MULCH. THIS METHOD OF MULCHING CAN GREATLY REDUCE EROSION CONTROL COSTS.
3. POLYETHYLENE FILM SHALL BE SECURED OVER BANKS OR STOCKPILED SOIL MATERIAL FOR TEMPORARY PROTECTION. THIS MATERIAL CAN BE SALVAGED AND RE-USED.

APPLYING MULCH
WHEN MULCH IS USED WITHOUT SEEDING, MULCH SHALL BE APPLIED TO PROVIDE FULL COVERAGE OF THE EXPOSED AREA.

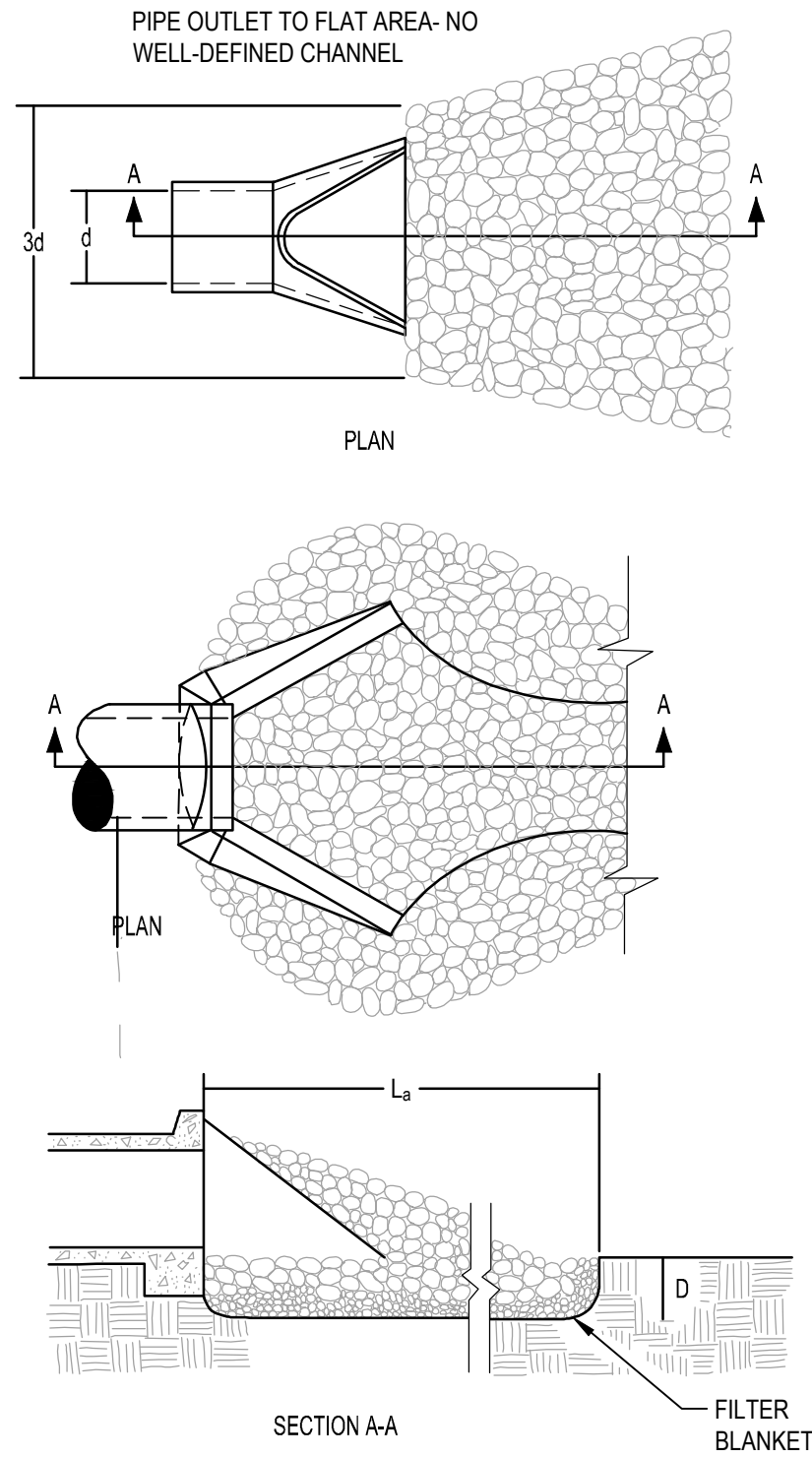
1. DRY STRAW OR HAY MULCH AND WOOD CHIPS SHALL BE APPLIED UNIFORMLY BY HAND OR BY MECHANICAL EQUIPMENT
2. IF THE AREA WILL EVENTUALLY BE COVERED WITH PERENNIAL VEGETATION, 20-30 POUNDS OF NITROGEN PER ACRE IN ADDITION TO THE NORMAL AMOUNT SHALL BE APPLIED TO OFFSET THE UPTAKE OF NITROGEN CAUSED BY THE DECOMPOSITION OF THE ORGANIC MULCHES.
3. APPLY POLYETHYLENE FILM ON EXPOSED AREAS.

ANCHORING MULCH
1. STRAW OR HAY MULCH CAN BE PRESSED INTO THE SOIL WITH A DISK HARROW WITH THE DISK SET STRAIGHT OR WITH A SPECIAL PACKER DISK. DISKS MAY BE SMOOTH OR SERRATED AND SHOULD BE 20 INCHES OR MORE IN DIAMETER AND 8 TO 12 INCHES APART. THE EDGES OF THE DISK SHOULD BE DULL ENOUGH NOT TO CUT THE MULCH BUT TO PRESS IT INTO THE SOIL LEAVING MULCH OF IT IN AN ERECT POSITION. STRAW OR HAY MULCH SHALL BE ANCHORED IMMEDIATELY AFTER APPLICATION.
STRAW OR HAY MULCH SPREAD WITH SPECIAL BLOWER-TYPE EQUIPMENT MAY BE ANCHORED. TACKIFIERS, BINDERS AND HYDRAULIC MULCH WITH TACKIFIER SPECIFICALLY DESIGNED FOR TACKING STRAW CAN BE SUBSTITUTED FOR EMULSIFIED ASPHALT. PLEASE REFER TO SPECIFICATION TAG-TACKIFIERS, PLASTIC MESH OR NETTING WITH MESH NO LARGER THAN ONE INCH BY ONE INCH SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATIONS.
2. NETTING OF THE APPROPRIATE SIZE SHALL BE USED TO ANCHOR WOOD WASTE. OPENINGS OF THE NETTING SHALL NOT BE LARGER THAN THE AVERAGE SIZE OF THE WOOD WASTE CHIPS.
3. POLYETHYLENE FILM SHALL BE ANCHOR TRENCHED AT THE TOP AS WELL AS INCREMENTALLY AS NECESSARY.

52 Ds1 DISTURBED AREA STABILIZATION (WITH MULCHING ONLY)

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

51 Co DETAIL - CONSTRUCTION EXIT NOT TO SCALE



ST-1 DIMENSIONS:

36" ACCESS PATH CULVERT OUTLET
MAXIMUM TAILWATER CONDITION
FLOW: 68 CFS
VELOCITY: 9.8 FPS
WIDTH AT PIPE OUTLET D0=9 FT.
La=18 FT
WIDTH AT END OF APRON=21 FT
MAX STONE SIZE=12 IN
THICKNESS=18 IN

ST-6 DIMENSIONS:

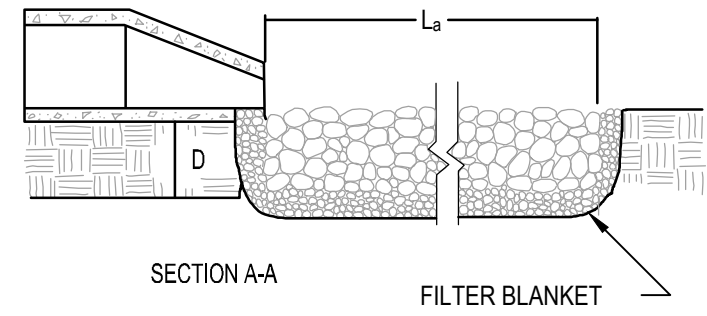
36" ACCESS PATH CULVERT OUTLET
MAXIMUM TAILWATER CONDITION
FLOW: 68 CFS
VELOCITY: 9.8 FPS
WIDTH AT PIPE OUTLET D0=9 FT.
La=18 FT
WIDTH AT END OF APRON=21 FT
MAX STONE SIZE=12 IN
THICKNESS=18 IN

ST-2 DIMENSIONS:

36" ACCESS PATH CULVERT OUTLET
MAXIMUM TAILWATER CONDITION
FLOW: 68 CFS
VELOCITY: 9.8 FPS
WIDTH AT PIPE OUTLET D0=9 FT.
La=18 FT
WIDTH AT END OF APRON=21 FT
MAX STONE SIZE=12 IN
THICKNESS=18 IN

ST-7 DIMENSIONS:

36" ACCESS PATH CULVERT OUTLET
MAXIMUM TAILWATER CONDITION
FLOW: 68 CFS
VELOCITY: 9.8 FPS
WIDTH AT PIPE OUTLET D0=9 FT.
La=18 FT
WIDTH AT END OF APRON=21 FT
MAX STONE SIZE=12 IN
THICKNESS=18 IN



PIPE OUTLET TO WELL-DEFINED CHANNEL

CONSTRUCTION SPECIFICATIONS

1. ENSURE THAT THE SUBGRADE FOR THE FILTER AND RIPRAP FOLLOWS THE REQUIRED LINES AND GRADES SHOWN IN THE PLAN. COMPACT ANY FILL REQUIRED IN THE SUBGRADE TO THE DENSITY OF THE SURROUNDING UNDISTURBED MATERIAL. LOW AREAS IN THE SUBGRADE ON UNDISTURBED SOIL MAY ALSO BE FILLED BY INCREASING THE RIPRAP THICKNESS.
2. THE RIPRAP AND GRAVEL FILTER MUST CONFORM TO THE SPECIFIED GRADING LIMITS SHOWN ON THE PLANS.
3. GEOTEXTILE MUST MEET DESIGN REQUIREMENTS AND BE PROPERLY PROTECTED FROM PUNCHING OR TEARING DURING INSTALLATION. REPAIR ANY DAMAGE BY REMOVING THE RIPRAP AND PLACING ANOTHER PIECE OF FILTER FABRIC OVER THE DAMAGED AREA. ALL CONNECTING JOINTS SHOULD OVERLAP A MINIMUM OF 1 FT. IF THE DAMAGE IS EXTENSIVE, REPLACE THE ENTIRE FILTER FABRIC.
4. RIPRAP MAY BE PLACED BY EQUIPMENT, BUT TAKE CARE TO AVOID DAMAGING THE FILTER FABRIC.
5. THE MINIMUM THICKNESS OF THE RIPRAP SHOULD BE 1.5 TIMES THE MAXIMUM STONE DIAMETER.
6. CONSTRUCT THE APRON ON ZERO GRADE WITH NO OVERFALL AT THE END. MAKE THE TOP OF THE RIPRAP AT THE DOWNSTREAM END LEVEL WITH THE RECEIVING AREA OR SLIGHTLY BELOW IT.
7. ENSURE THAT THE APRON IS PROPERLY ALIGNED WITH THE RECEIVING STREAM AND PREFERABLY STRAIGHT THROUGHOUT ITS LENGTH. IF A CURVE IS NEEDED TO FIT SITE CONDITIONS, PLACE IT IN THE UPPER SECTION OF THE APRON.
8. IMMEDIATELY AFTER CONSTRUCTION, STABILIZE ALL DISTURBED AREAS WITH VEGETATION.
9. STONE QUALITY - SELECT STONE FOR RIPRAP FROM FIELD STONE OR QUARRY STONE. THE STONE SHOULD BE HARD, ANGULAR, AND HIGHLY WEATHER-RESISTANT. THE SPECIFIC GRAVITY OF THE INDIVIDUAL STONES SHOULD BE AT LEAST 2.5.
10. FILTER - INSTALL A FILTER TO PREVENT SOIL MOVEMENT THROUGH THE OPENINGS IN THE RIPRAP. THE FILTER SHOULD CONSIST OF A GRADED GRAVEL LAYER OR A SYNTHETIC FILTER CLOTH. SEE APPENDIX C.

MAINTENANCE

INSPECT RIPRAP OUTLET STRUCTURES AFTER HEAVY RAINS TO SEE IF ANY EROSION AROUND OR BELOW THE RIPRAP HAS TAKEN PLACE OR IF STONES HAVE BEEN DISLODGED. IMMEDIATELY MAKE ALL NEEDED REPAIRS TO PREVENT FURTHER DAMAGE.

ST-3 DIMENSIONS:

36" ACCESS PATH CULVERT OUTLET
MAXIMUM TAILWATER CONDITION
FLOW: 68 CFS
VELOCITY: 9.8 FPS
WIDTH AT PIPE OUTLET D0=9 FT.
La=18 FT
WIDTH AT END OF APRON=21 FT
MAX STONE SIZE=12 IN
THICKNESS=18 IN

ST-8 DIMENSIONS:

36" ACCESS PATH CULVERT OUTLET
MAXIMUM TAILWATER CONDITION
FLOW: 68 CFS
VELOCITY: 9.8 FPS
WIDTH AT PIPE OUTLET D0=9 FT.
La=18 FT
WIDTH AT END OF APRON=21 FT
MAX STONE SIZE=12 IN
THICKNESS=18 IN

ST-4 DIMENSIONS:

36" ACCESS PATH CULVERT OUTLET
MAXIMUM TAILWATER CONDITION
FLOW: 68 CFS
VELOCITY: 9.8 FPS
WIDTH AT PIPE OUTLET D0=9 FT.
La=18 FT
WIDTH AT END OF APRON=21 FT
MAX STONE SIZE=12 IN
THICKNESS=18 IN

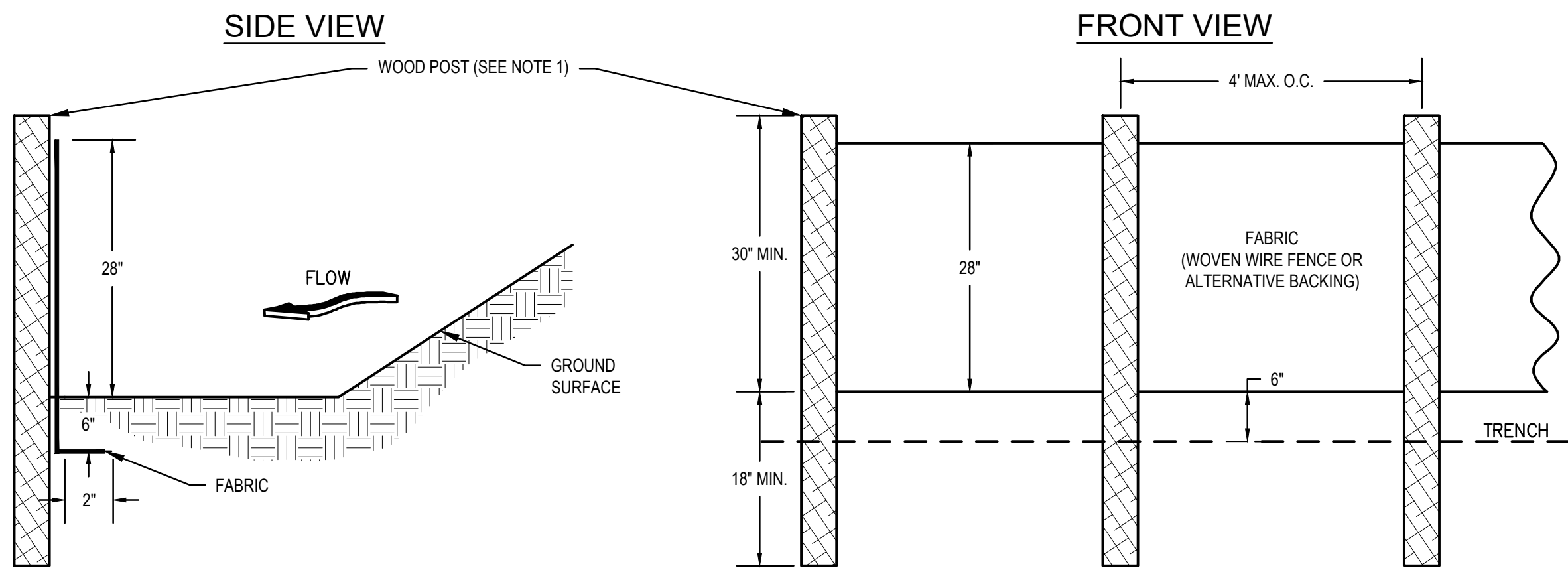
ST-9 DIMENSIONS:

36" ACCESS PATH CULVERT OUTLET
MAXIMUM TAILWATER CONDITION
FLOW: 68 CFS
VELOCITY: 9.8 FPS
WIDTH AT PIPE OUTLET D0=9 FT.
La=18 FT
WIDTH AT END OF APRON=21 FT
MAX STONE SIZE=12 IN
THICKNESS=18 IN

ST-5 DIMENSIONS:

36" ACCESS PATH CULVERT OUTLET
MAXIMUM TAILWATER CONDITION
FLOW: 68 CFS
VELOCITY: 9.8 FPS
WIDTH AT PIPE OUTLET D0=9 FT.
La=18 FT
WIDTH AT END OF APRON=21 FT
MAX STONE SIZE=12 IN
THICKNESS=18 IN

51 St DETAIL - STORM DRAIN OUTLET PROTECTION NOT TO SCALE



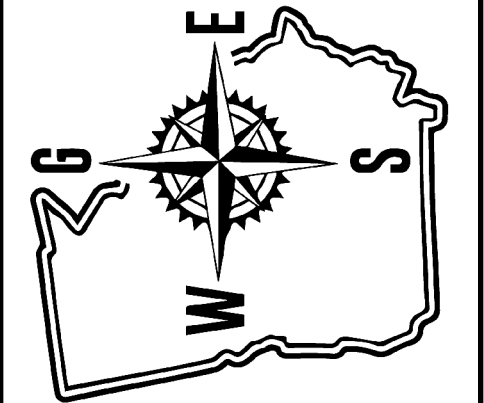
- NOTES:**
1. USE STEEL OR WOOD POSTS OR AS SPECIFIED BY THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.
 2. HEIGHT (*) IS TO BE SHOWN ON THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.

Sd1-S DETAIL - SEDIMENT BARRIER SILT FENCE NOT TO SCALE



ISSUE SEQUENCE		
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GAS EASEMENT REMEDIATION
FOR THE
CITY OF WARNER ROBINS



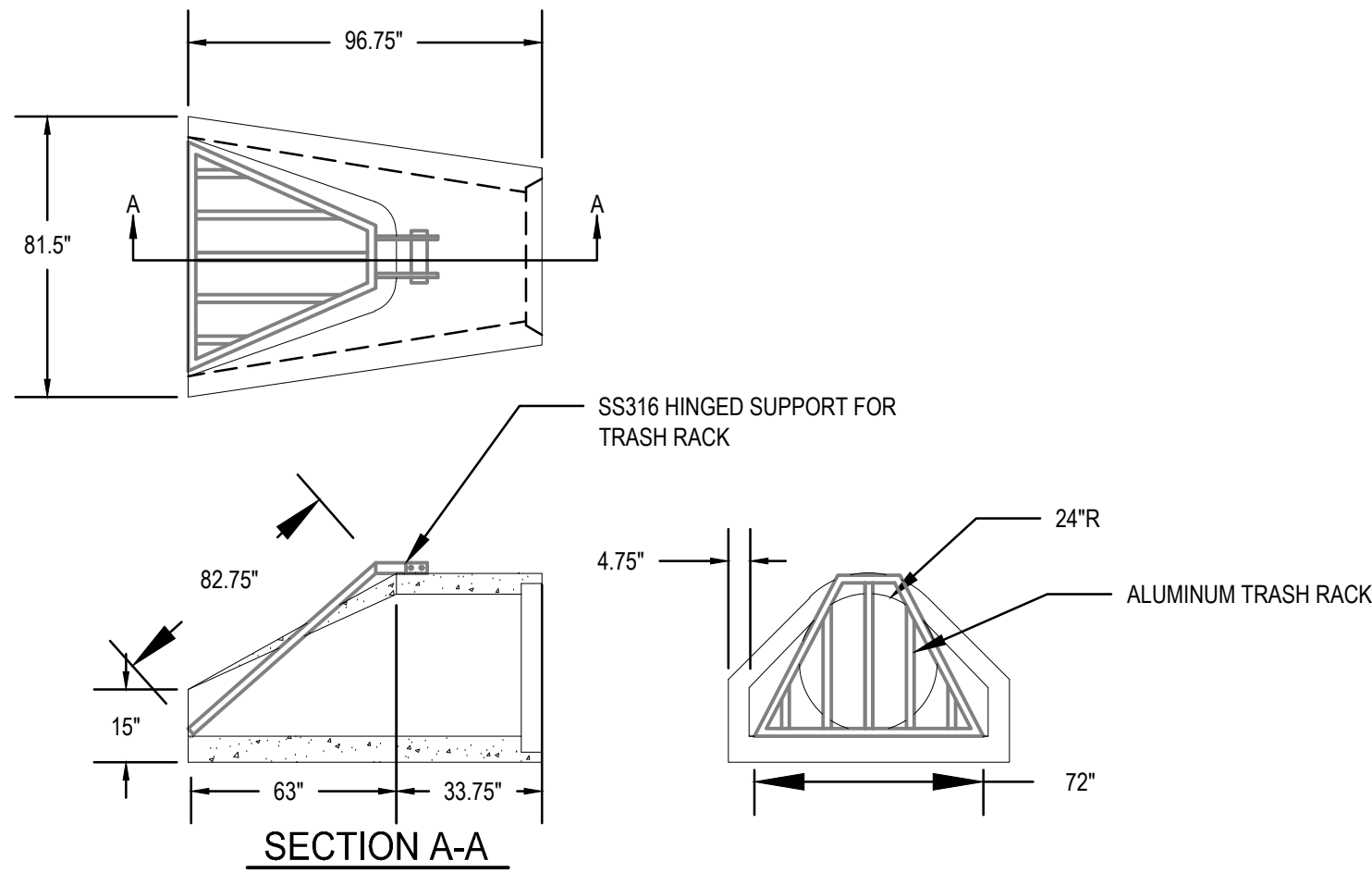
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DESIGNED: MTP
CHECKED: MWT
APPROVED: MTP
DATE: MAY 2026

EROSION, SEDIMENTATION
AND POLLUTION CONTROL
DETAILS

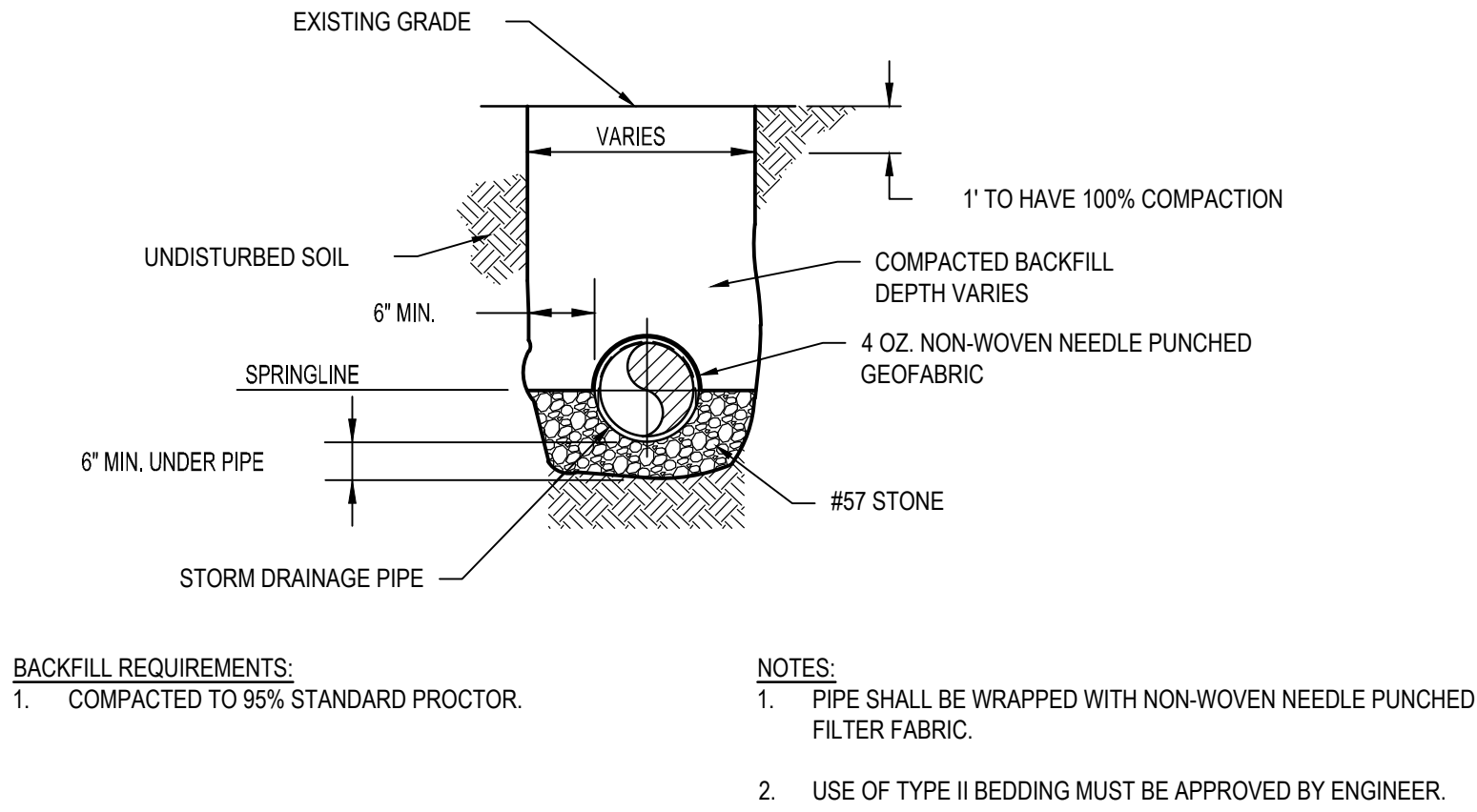
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C-13

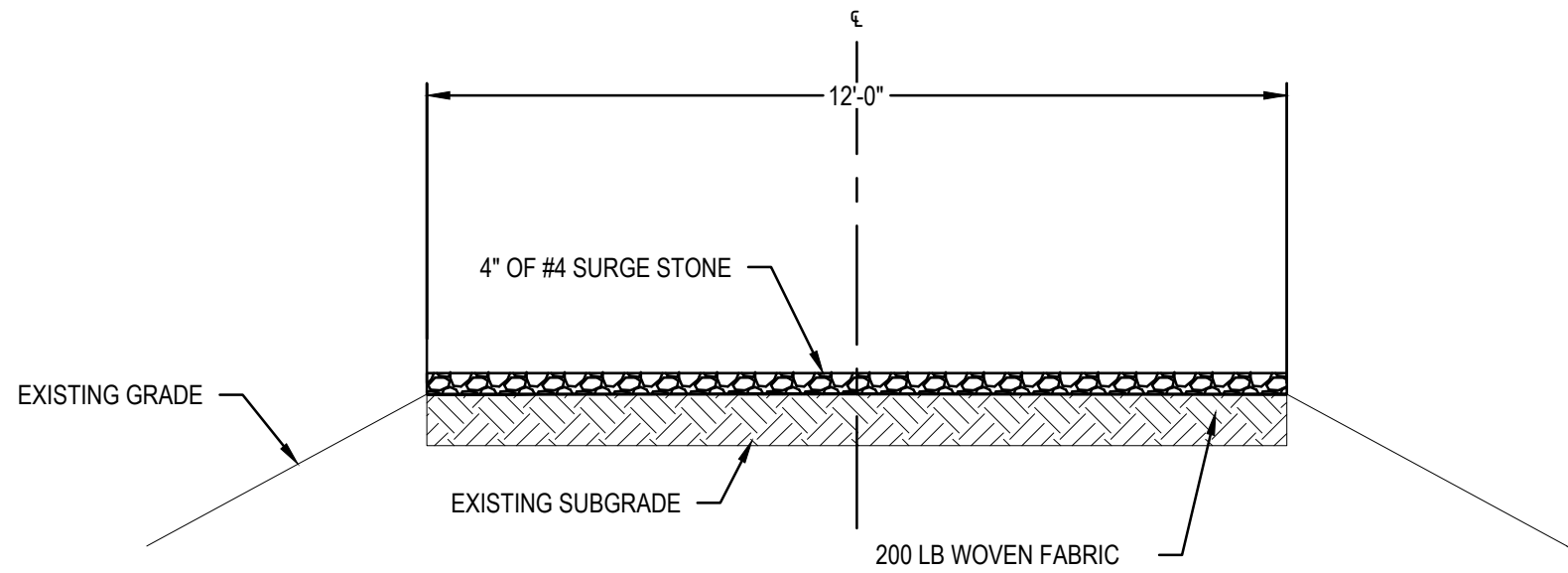
SHEET: 13 OF 14



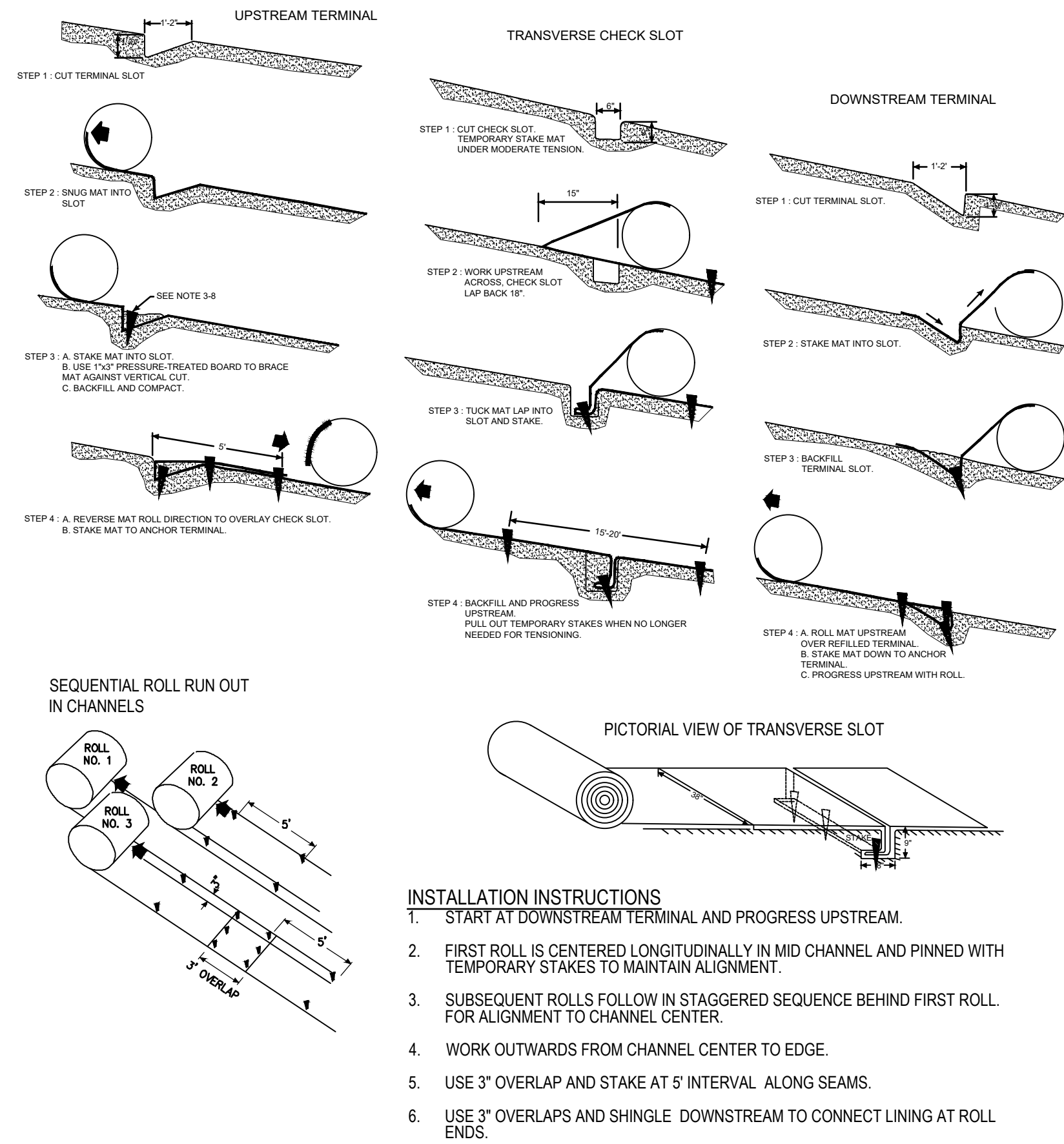
36 IN RCP FLARED END SECTION WITH TRASH RACK
NOT TO SCALE



DETAIL - RCP BEDDING
SCALE: NOT TO SCALE



DETAIL - GRAVEL ACCESS DRIVE SECTION
NOT TO SCALE



DETAIL - SLOPE STABILIZATION
NOT TO SCALE

ISSUE SEQUENCE		
NO.	DATE	DESCRIPTION
0	5/22/2026	ISSUED FOR BID

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GAS EASEMENT REMEDIATION
FOR THE
CITY OF WARNER ROBINS



PROJECT NO.:	015.13.3.26
DESIGNED:	MTP
CHECKED:	MVT
APPROVED:	MTP
DATE:	MAY 2026

EROSION, SEDIMENTATION
AND POLLUTION CONTROL
DETAILS

DRAWING NO.
C-14
SHEET: 14 OF 14

