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CONSTRUCTION PLANS FOR NEW BUILDING AT 200 SPILLERS WAY

**THIS PROJECT IS NOT LOCATED
IN A 100 YR FLOOD PLAIN PER
FEMA MAP # 13153C0085E
EFFECTIVE 09/28/2007**

PROPERTY DEVELOPER:
MACNASTY PROPERTIES, LLC
100 WILLINGHAM COURT
WARNER ROBINS, GA 31088
(478) 225-9840

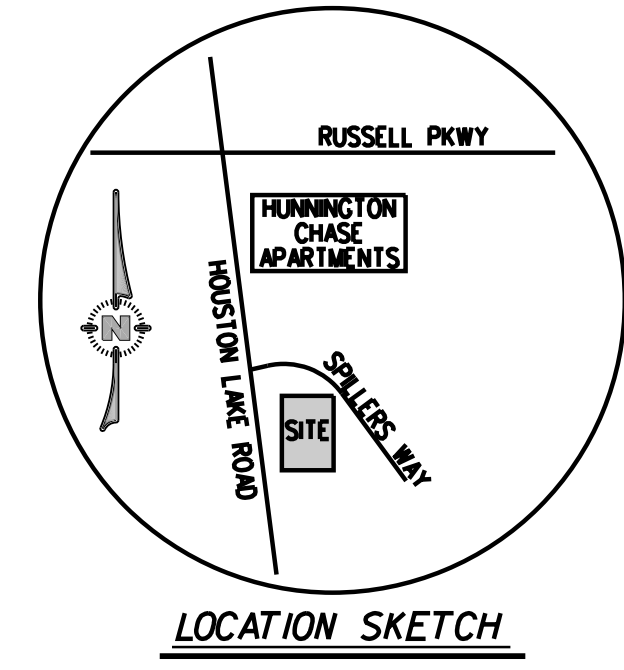
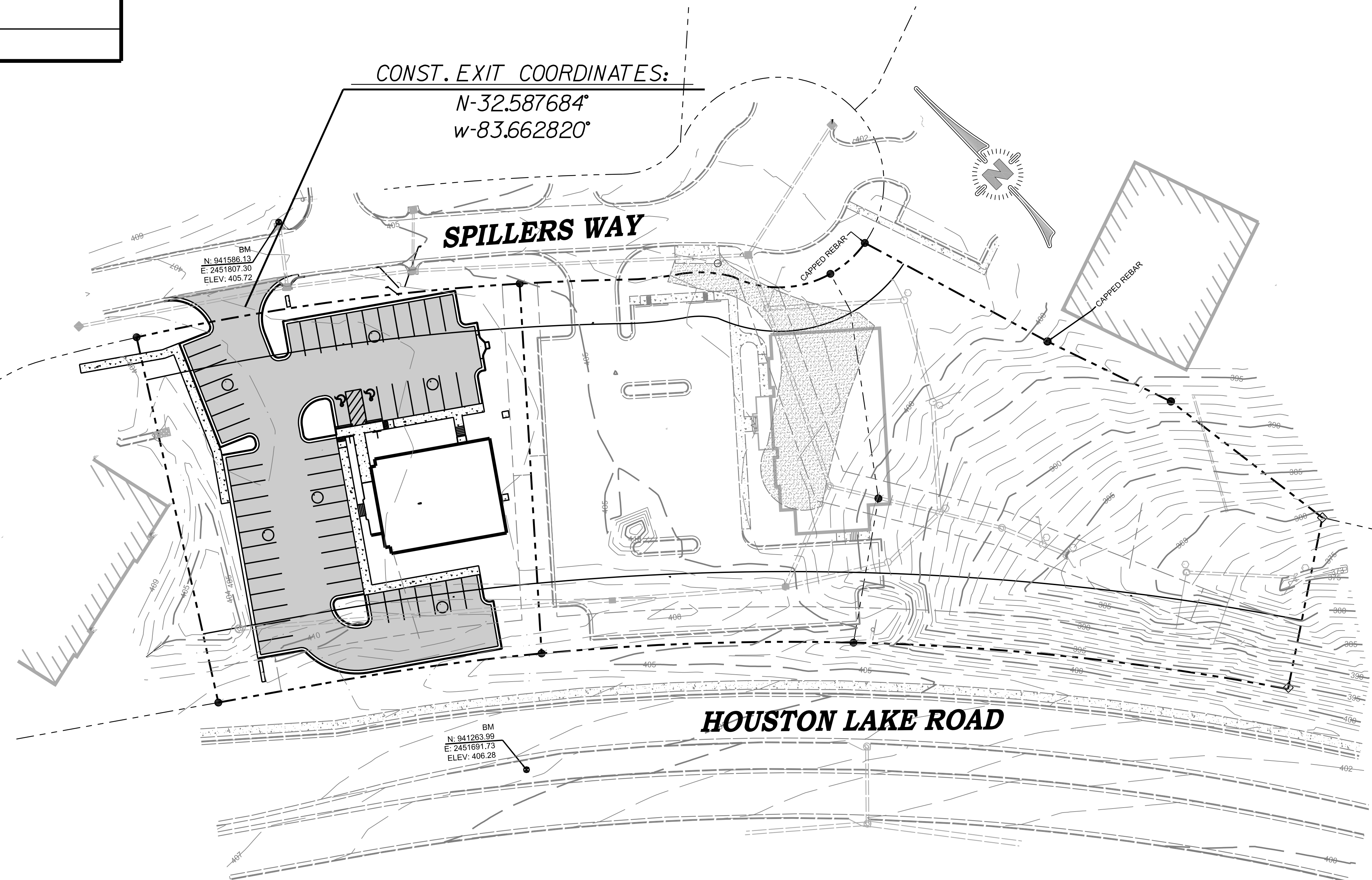
CONTRACTOR:
STROUD AND COMPANY
427 8th STREET
MACON, GA 31201
(478) 743-5097

ALL UTILITY CONSTRUCTION SHALL
CONFORM TO CITY OF WARNER ROBINS
UTILITY DEPARTMENT WATER & SEWER
STANDARDS, LATEST EDITION

ALL NON-METAL PIPING SHALL
HAVE TRACER WIRE.

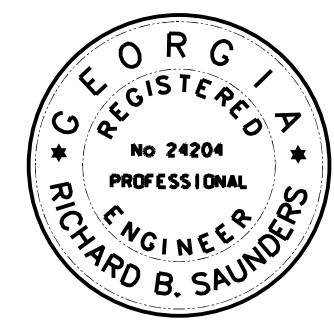
LAND LOT 143
LAND DISTRICT 5

S Saunders
Engineering
Consultants, Inc.
104-C Gunn Road, Centerville, GA 31028
(478) 953-1228 (478) 953-1248 Fax
rsaunders@saunderseng.com

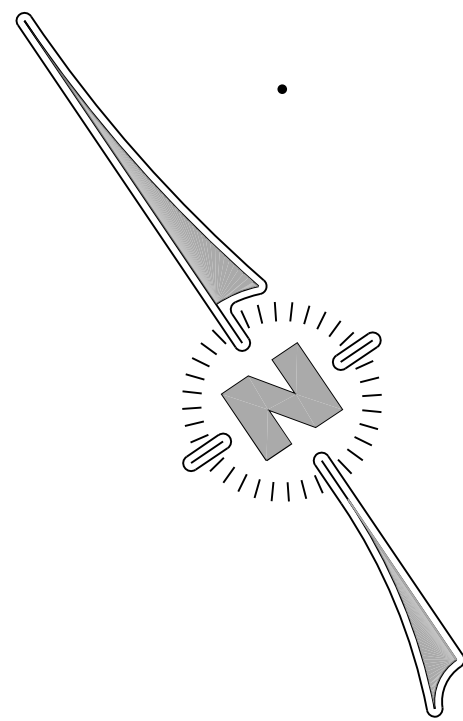


LEGEND	EXISTING	NEW
PROPERTY LINE	---	---
CONTOUR LINE	---	---
POWER POLE	---	---
OVER HEAD POWER	---	---
GAS LINE	---	---
WATER LINE	---	---
FIRE HYDRANT	---	---
WATER VALVE	---	---
SAN. SEWER W/ MANHOLE	---	---
CLEANOUT	---	---
DRAIN INLET	---	---
CATCH BASIN	---	---
D.O.T. STD. 1033D	---	---
STORM DRAIN	---	---
SILT FENCE	---	---
SPOT ELEVATION	---	---
CONCRETE SIDEWALK	---	---
ASPHALT PAVING	---	---

**STROUD
AND COMPANY**



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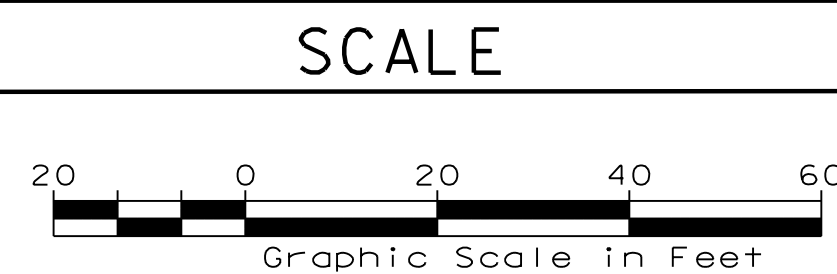


SOIL TYPES:

- Avp- ALLUVIAL LAND, WET
LcB- LUCY SAND,
0% TO 5% SLOPES
OcD3- ORANGEBURG SANDY LOAM,
8% TO 12% SLOPES,
SEVERELY ERODED
OgB- ORANGEBURG LOAMY FINE SAND,
2% TO 5% SLOPES



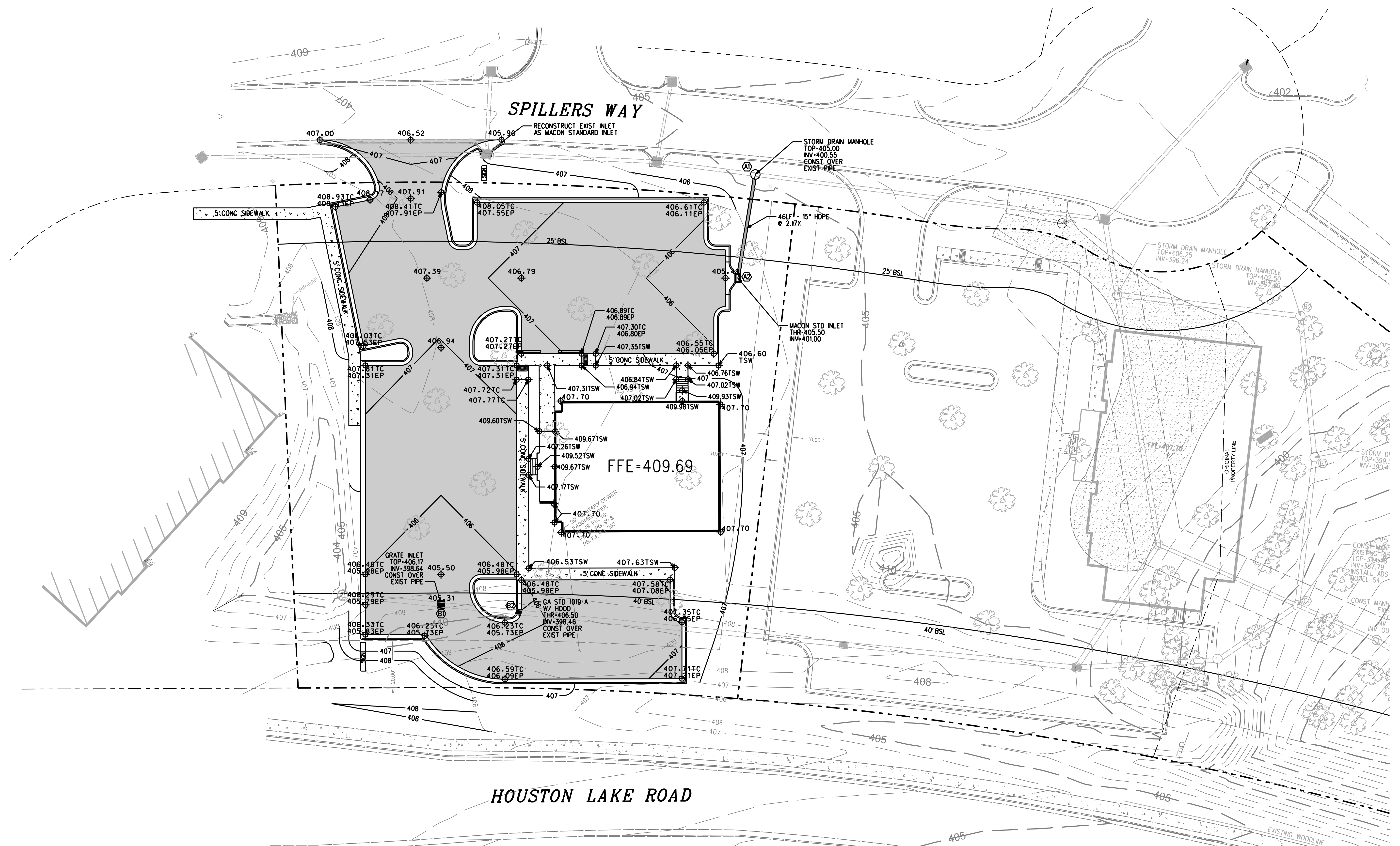
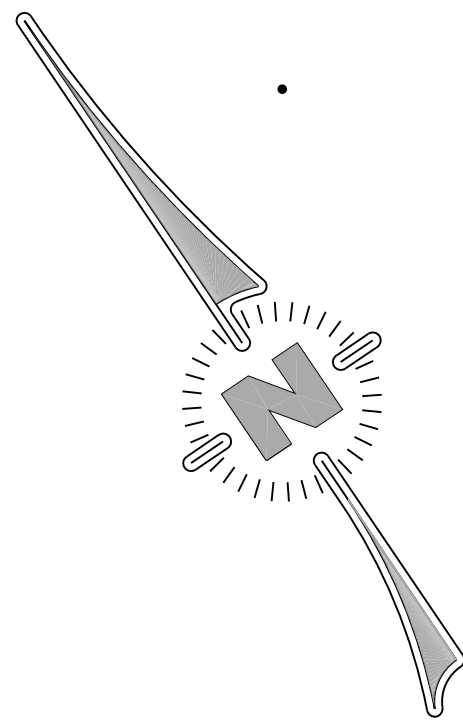
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DATE	REVISIONS	DATE	REVISIONS

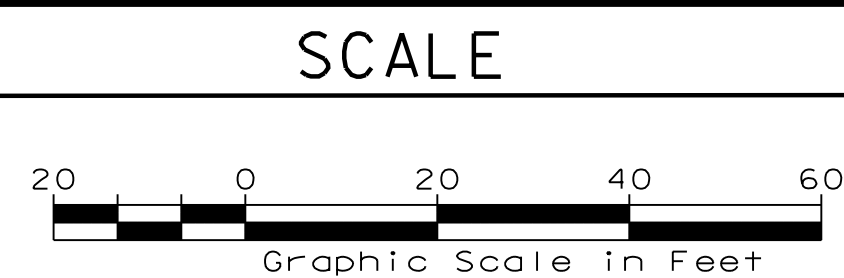


200 SPILLERS WAY		DRAWN BY:	DRAWING NO:
CITY OF WARNER ROBINS, GEORGIA		DATE:	3-1
MACNASTY PROPERTIES, LLC		JULY, 2026	SCALE:
100 WILLINGTON COURT			AS SHOWN
WARNER ROBINS, GA 31088			SHEET NO:
SAUNDERS ENGINEERING CONSULTANTS, INC.		JOB NO:	2
CIVIL/TRANSPORTATION CONSULTING ENGINEERS		1361	



GRADING & DRAINAGE PLAN

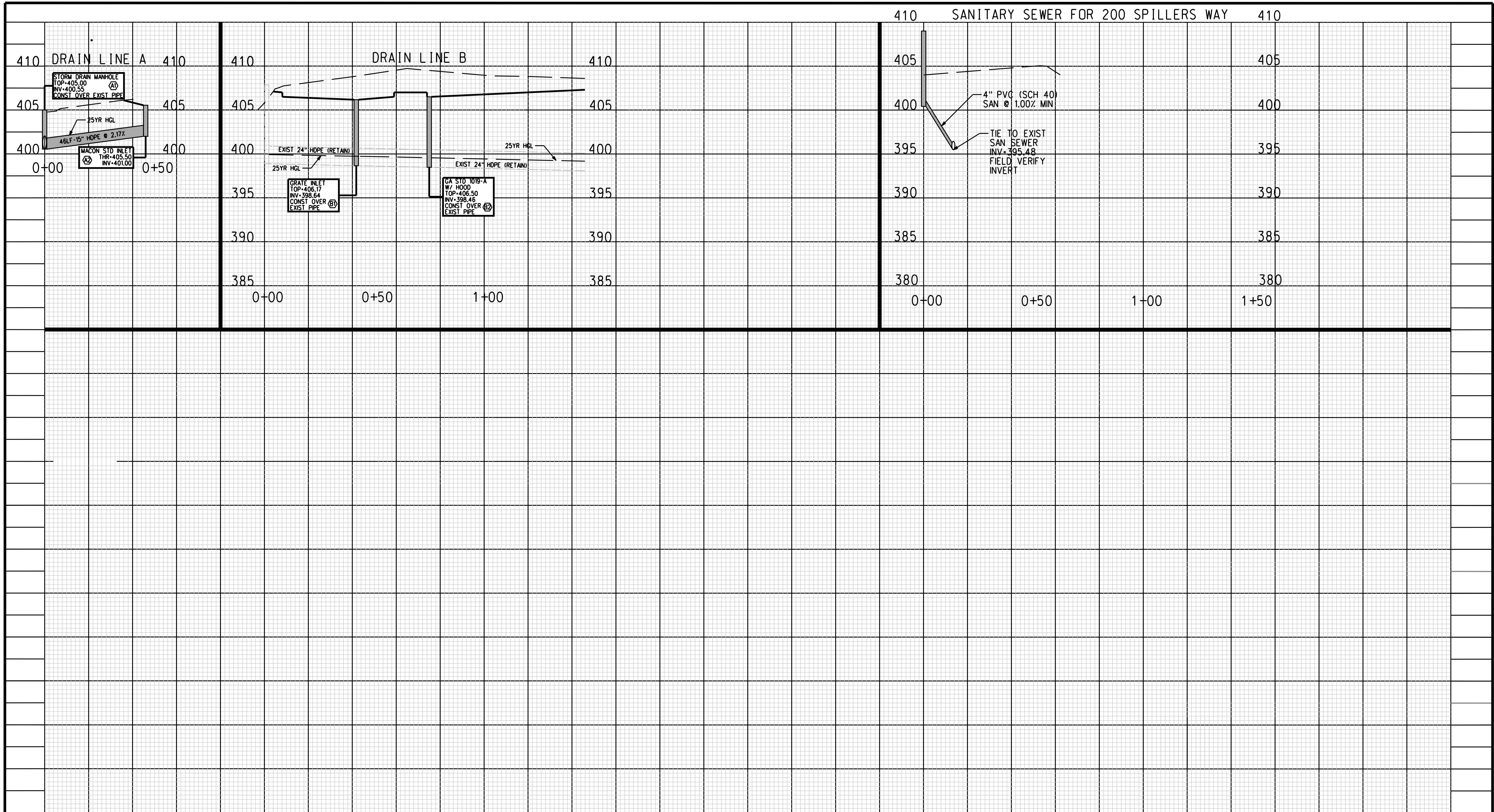
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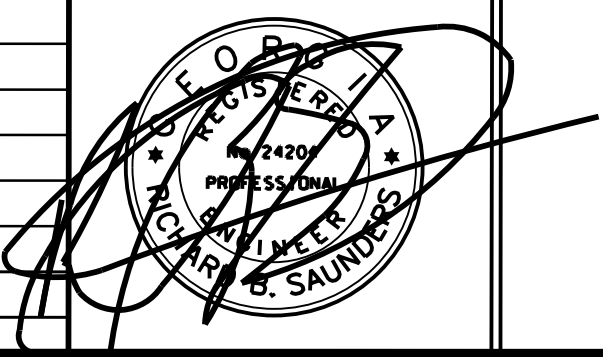
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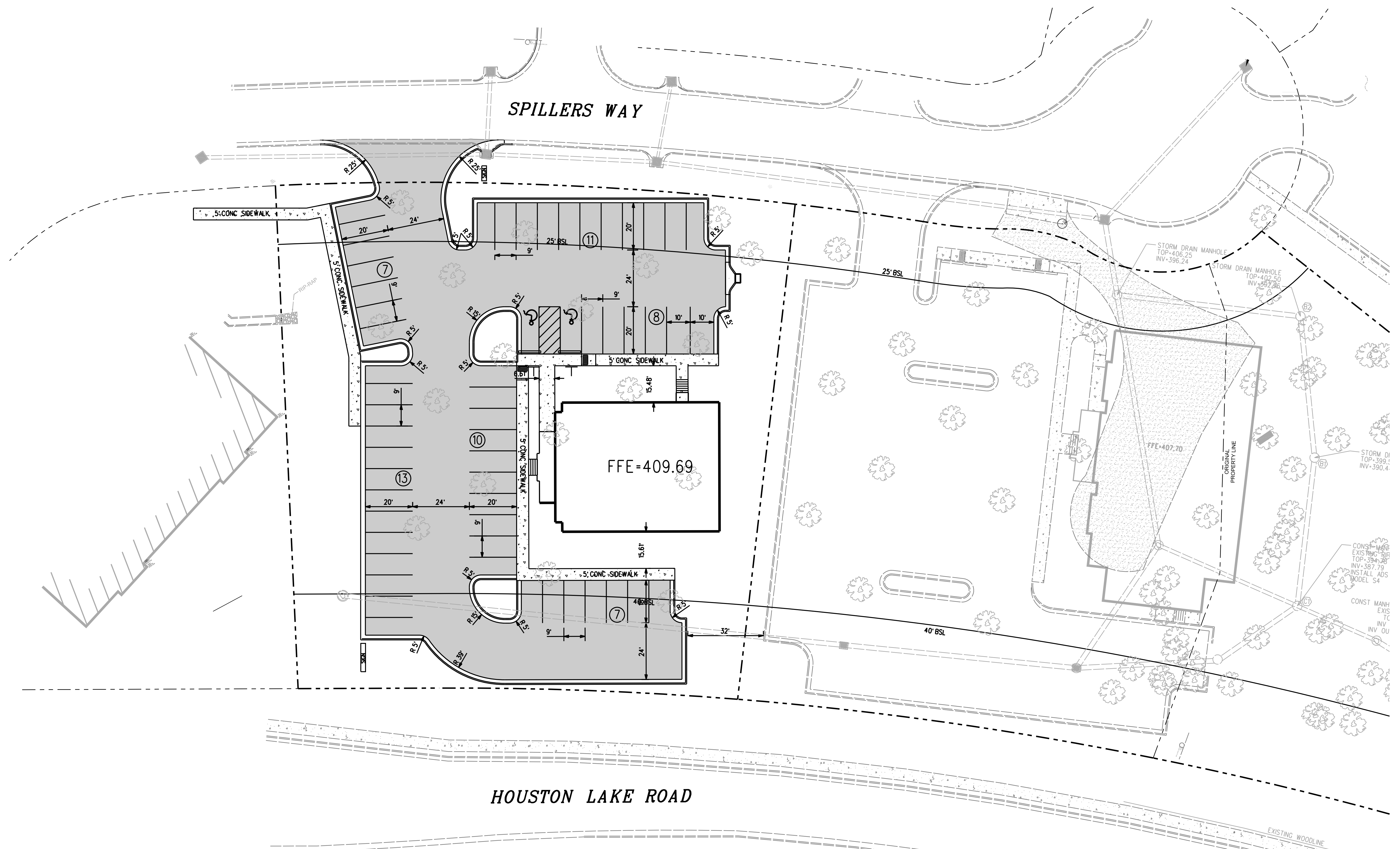
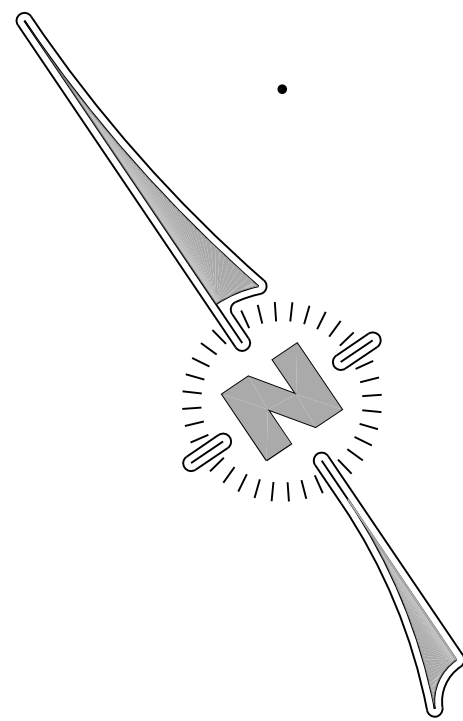


200 SPILLERS WAY		DRAWN BY:	DRAWING NO:
CITY OF WARNER ROBINS, GEORGIA		DATE:	5-1
MACNASTY PROPERTIES, LLC		JULY, 2026	SCALE:
100 WILLINGTON COURT			AS SHOWN
WARNER ROBINS, GA 31088			SHEET NO:
SAUNDERS ENGINEERING CONSULTANTS, INC.		JOB NO:	3
CIVIL/TRANSPORTATION CONSULTING ENGINEERS		1361	



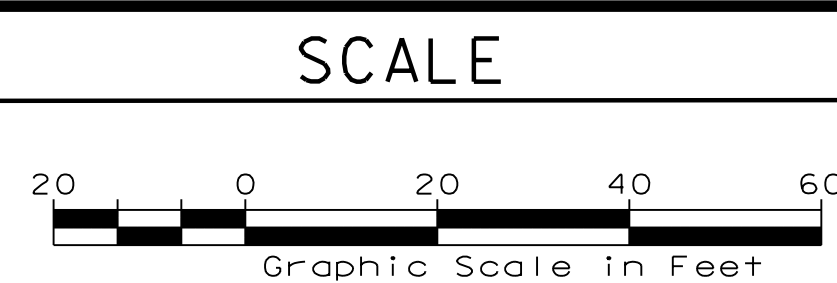
STORMDRAIN PROFILES

 104-C Gunn Road, Centerville, GA 31028 (478) 953-1228 (478) 953-1248 Fax	SCALE: 1"=20' HORIZ 1"=5' VERT	DATE	REVISIONS	DATE	REVISIONS		CITY OF WARNER ROBINS, GEORGIA MACNASTY PROPERTIES, LLC 100 WILLINGTON COURT WARNER ROBINS, GA 31008 SAUNDERS ENGINEERING CONSULTANTS, INC. CIVIL/TRANSPORTATION CONSULTING ENGINEERS	DRAWN BY:	DRAWING NO:
								DATE:	7-1
								JULY, 2026	SCALE:
								JOB NO:	AS SHOWN
								1361	SHEET NO:
									4



STAKING & PAVING PLAN

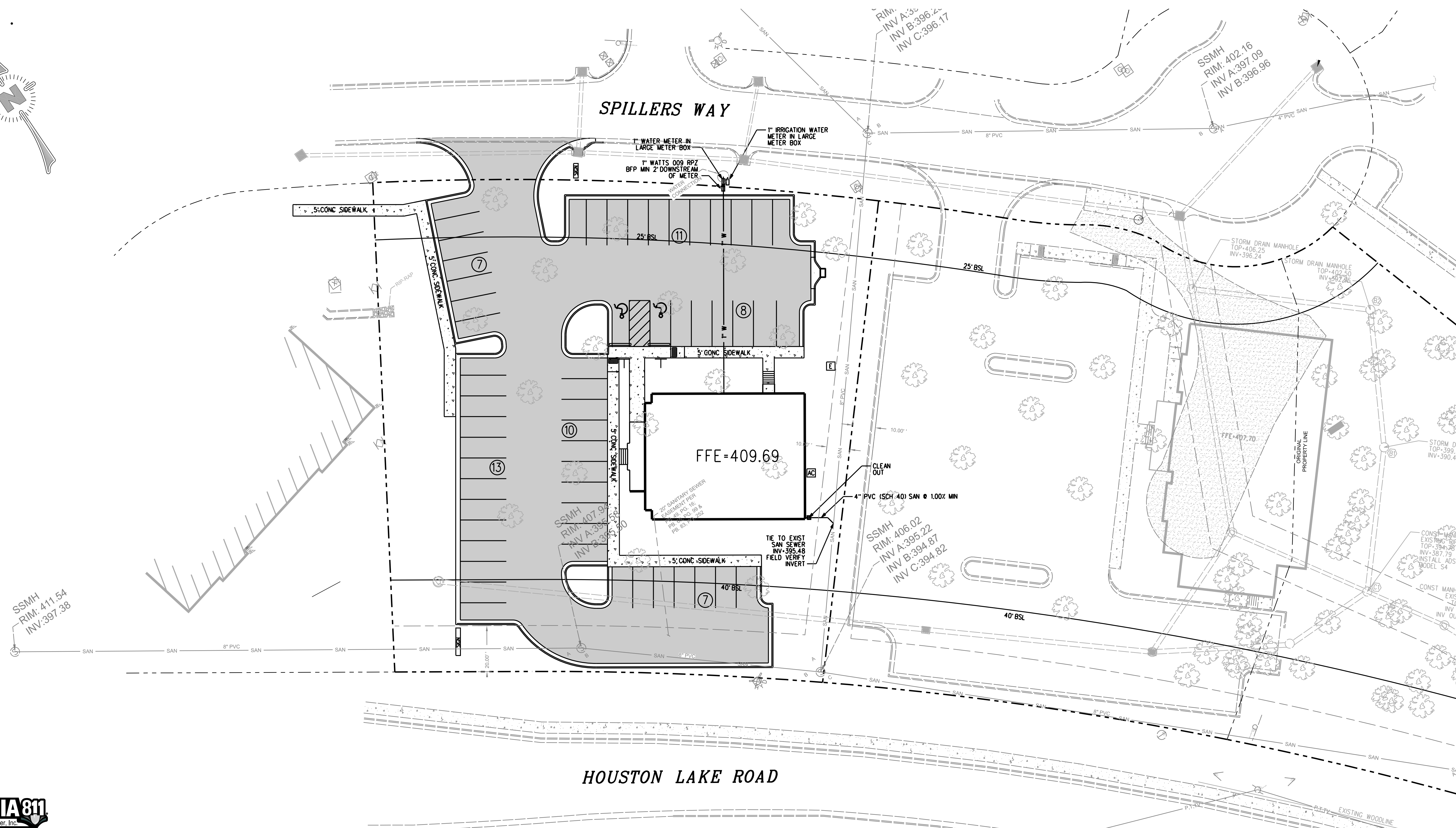
S Saunders
Engineering
Consultants, Inc.
104-C Gunn Road, Centerville, GA 31028
(478) 953-1228 (478) 953-1248 Fax



DATE	REVISIONS	DATE	REVISIONS

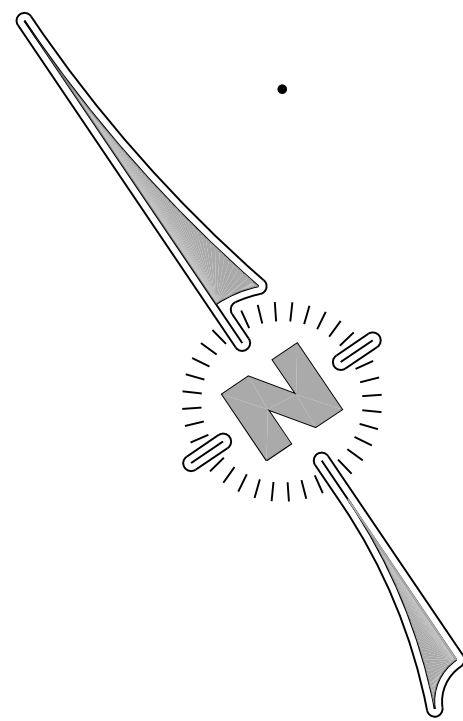


200 SPILLERS WAY		DRAWN BY:	DRAWING NO:
CITY OF WARNER ROBINS, GEORGIA		DATE:	8-1
MACNASTY PROPERTIES, LLC		JULY, 2026	SCALE:
100 WILLINGTON COURT			AS SHOWN
WARNER ROBINS, GA 31088		JOB NO:	SHEET NO:
SAUNDERS ENGINEERING CONSULTANTS, INC.		1361	5
CIVIL/TRANSPORTATION CONSULTING ENGINEERS			



4	DRAWN BY:	DRAWING NO: 9-1
	DATE:	
	JULY, 2026	
	JOB NO: 1361	SCALE: AS SHOWN SHEET NO: 6

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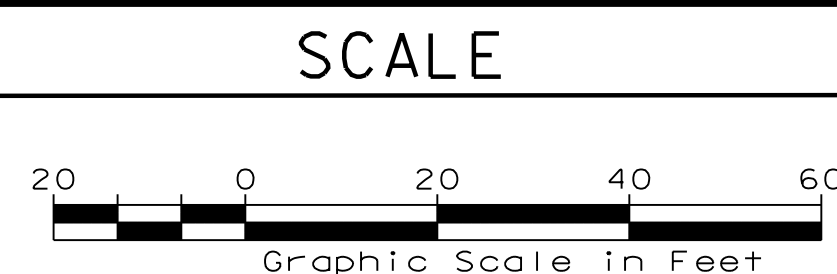
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8% TO 12% SLOPES,
SEVERELY ERODED
OgB- ORANGEBURG LOAMY FINE SAND,
2% TO 5% SLOPES

24 HOUR CONTACT:

BEN HOLT
(478) 743-5097



S Saunders
Engineering
Consultants, Inc.
104-C Gunn Road, Centerville, GA 31028
(478) 953-1228 (478) 953-1248 Fax

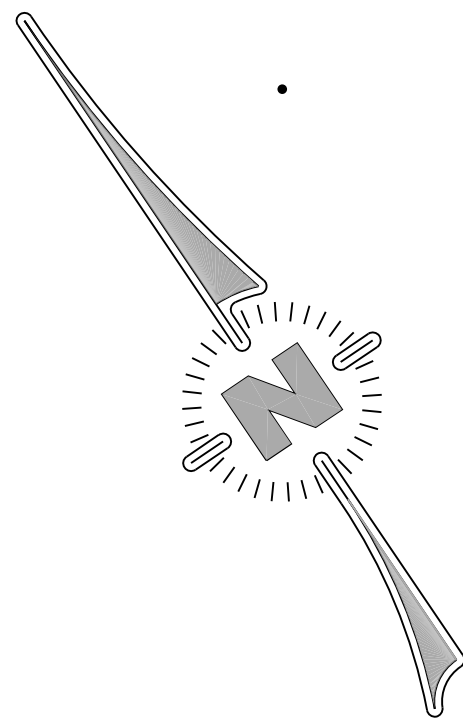


DATE	REVISIONS	DATE	REVISIONS



**INITIAL PHASE
SOIL EROSION CONTROL PLANS**

200 SPILLERS WAY		DRAWN BY:	DRAWING NO:
CITY OF WARNER ROBINS, GEORGIA		DATE:	11-1
MACNASTY PROPERTIES, LLC		JULY, 2026	SCALE:
100 WILLINGTON COURT			AS SHOWN
WARNER ROBINS, GA 31088			SHEET NO:
SAUNDERS ENGINEERING CONSULTANTS, INC.		JOB NO:	7
CIVIL/TRANSPORTATION CONSULTING ENGINEERS		1361	



SOIL TYPES:

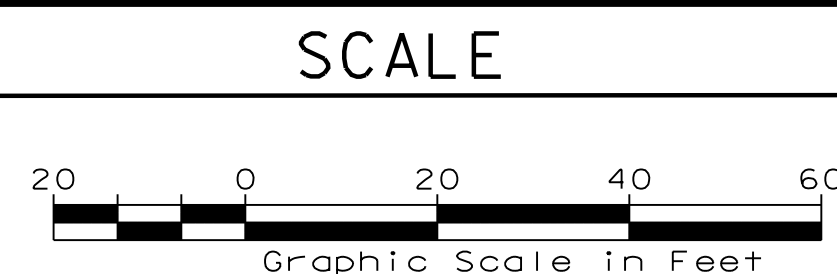
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(478) 743-5097



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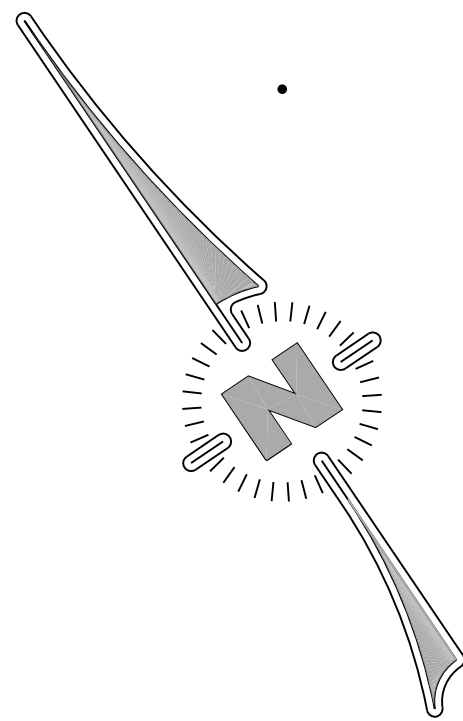


DATE	REVISIONS	DATE	REVISIONS



**INTERMEDIATE PHASE
SOIL EROSION CONTROL PLANS**

200 SPILLERS WAY	DRAWN BY:	DRAWING NO:
CITY OF WARNER ROBINS, GEORGIA	DATE:	11-2
MAGNASTY PROPERTIES, LLC	JULY, 2026	SCALE:
100 WILLINGTON COURT		AS SHOWN
WARNER ROBINS, GA 31088	JOB NO:	SHEET NO:
SAUNDERS ENGINEERING CONSULTANTS, INC.	1361	8
CIVIL/TRANSPORTATION CONSULTING ENGINEERS		



SOIL TYPES:

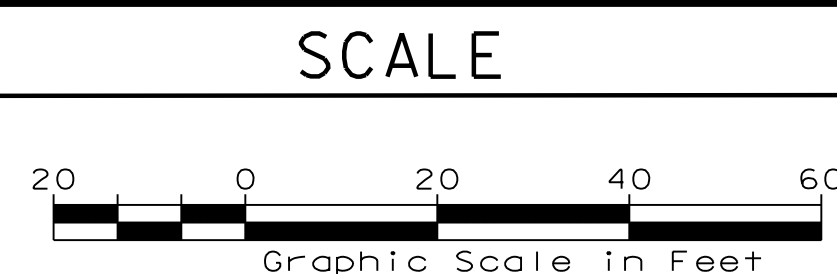
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8% TO 12% SLOPES,
SEVERELY ERODED
OgB- ORANGEBURG LOAMY FINE SAND,
2% TO 5% SLOPES

24 HOUR CONTACT:

BEN HOLT
(478) 743-5097



S Saunders
Engineering
Consultants, Inc.
104-C Gunn Road, Centerville, GA 31028
(478) 953-1228 (478) 953-1248 Fax



DATE	REVISIONS	DATE	REVISIONS



**FINAL PHASE
SOIL EROSION CONTROL PLANS**

200 SPILLERS WAY		DRAWN BY:	DRAWING NO:
CITY OF WARNER ROBINS, GEORGIA		DATE:	11-3
MACNASTY PROPERTIES, LLC		JULY, 2026	SCALE:
100 WILLINGTON COURT			AS SHOWN
WARNER ROBINS, GA 31088			SHEET NO:
SAUNDERS ENGINEERING CONSULTANTS, INC.		JOB NO:	9
CIVIL/TRANSPORTATION CONSULTING ENGINEERS		1361	

Owner/Developer: (Primary Permittee)

Owner Name: Macnasty Properties, LLC
Address: 100 Willington Court
City State Zip: Warner Robins, GA 31088
Phone Number: (478) 225-9840
Email: stroud@stroudandcompany.com

24 Hour Contact

Name: Ben Holt
Phone: (478) 743-5097
Email: bholt@stroudandcompany.com

EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN (ES&PC)

This plan was prepared as required by NPDES General Permit No. GA00001. These plan sheets and all requirements of the General Permit as well as local, state, and Federal regulations or laws apply.

SITE DESCRIPTION

Owner/Developer as Primary Permittee will oversee site construction located within the property situated in Land Lot 143 of the 5 Land District, City of Warner Robins, Houston County, Georgia. The magnitude of the entire development contains 3 acres with 2.32 acres disturbed.

Describe existing conditions of the property: Existing partially wooded field

Describe property to be developed: Proposed buildings w/ paved parking

No existing wetlands will be impacted by this development.

No state waters exist within 200 feet of the project site. Construction will begin with placement of perimeter silt protection barriers and construction entrances. After these erosion control best management practices have been installed, clearing and grubbing of vegetation will commence in areas that are to be disturbed. The site will then be graded and utilities will be trenched. Once brought to final grade, the roads will be paved while all other exposed areas will be stabilized with vegetation, sidewalks or structures.

During construction, all storm water run off will be routed through the BMP's shown on the phased erosion control plans to reduce pollutants (suspended solids and sediment) in the storm water discharge from the site.

After site construction, storm water run off from this development will flow into the storm water control facility which will reduce the pollutants in the storm water discharge by using water quality control ponds and/or proprietary water quality control devices.

The difference in Pre-Development and Post-Development of the project corridor will be the addition of asphaltic based pavement.

All building materials, building products, construction waste, trash, landscaping materials, fertilizers, pesticides, herbicides, detergents, sanitary waste, and other similar materials must be covered in plastic sheeting or temporary shelters to minimize exposure to precipitation and to stormwater.

RUNOFF COEFFICIENT

Weighted pre construction CN curve number: 55
Weighted post construction CN curve number: 76

NAME OF RECEIVING WATERS

Howard Branch

OWNER / OPERATOR'S CERTIFICATION

(1) I CERTIFY THAT THE RECEIVING WATER(S) OR THE OUTFALL(S) OR A COMBINATION OF RECEIVING WATER(S) AND OUTFALL(S) WILL BE MONITORED IN ACCORDANCE WITH THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN.

(2) I CERTIFY THAT THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN HAS BEEN PREPARED IN ACCORDANCE WITH PART IV OF THE GENERAL NPDES PERMIT GA00001. THE PLAN WILL BE IMPLEMENTED, AND THAT SUCH PLAN WILL PROVIDE FOR COMPLIANCE WITH THIS PERMIT.

(3) I CERTIFY UNDER THE PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED UPON 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.

(4) I CERTIFY THAT THE PERMITTEE'S EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN PROVIDES FOR AN APPROPRIATE AND COMPREHENSIVE SYSTEM OF BEST MANAGEMENT PRACTICES REQUIRED BY THE GEORGIA WATER QUALITY CONTROL ACT AND THE DOCUMENT "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" (MANUAL) PUBLISHED BY STATE SOIL AND WATER CONSERVATION COMMISSION AS OF JANUARY 1 OF THE YEAR IN WHICH THE LAND DISTURBING ACTIVITY WAS PERMITTED. PROVIDES FOR THE SAMPLING OF THE RECEIVING WATER(S) OR THE SAMPLING OF THE STORM WATER OUTFALLS AND THAT THE DESIGNED SYSTEM OF BEST MANAGEMENT PRACTICES AND SAMPLING METHODS IS EXPECTED TO MEET THE REQUIREMENTS CONTAINED IN THE GENERAL NPDES PERMIT GA00001.

(5) I CERTIFY THAT THE APPLICABLE PORTIONS OF THE EROSION CONTROL PLANS WILL BE PROVIDED TO EACH SECONDARY PERMITTEE PRIOR TO THE SECONDARY PERMITTEE CONDUCTION ANY CONSTRUCTION ACTIVITY.

OWNER / OPERATOR'S SIGNATURE

SURVEY INFORMATION

Boundary Information provided by: SAM, LLC
Topographic Information provided by: SAM, LLC

The site is located in Land Lot 143, Land District 5, Houston County, GA. Gross acreage of tract: 3 more or less.

EROSION CONTROL CERTIFICATION

(1) I CERTIFY THAT THE PERMITTEE'S EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN PROVIDES FOR AN APPROPRIATE AND COMPREHENSIVE SYSTEM OF BEST MANAGEMENT PRACTICES REQUIRED BY THE GEORGIA WATER QUALITY CONTROL ACT AND THE DOCUMENT "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" (MANUAL) PUBLISHED BY THE GEORGIA SOIL AND WATER CONSERVATION COMMISSION AS OF JANUARY 1 OF THE YEAR IN WHICH LAND DISTURBING ACTIVITY WAS PERMITTED. PROVIDES FOR THE SAMPLING OF THE RECEIVING WATER(S) OR THE SAMPLING OF THE STORM WATER OUTFALLS AND THAT THE DESIGNED SYSTEM OF BEST MANAGEMENT PRACTICES AND SAMPLING METHODS IS EXPECTED TO MEET THE REQUIREMENTS CONTAINED IN THE GENERAL NPDES PERMIT NO. GA000001.

(2) I CERTIFY UNDER PENALTY OF LAW THAT THIS PLAN WAS PREPARED AFTER A SITE VISIT TO THE LOCATIONS DESCRIBED HEREIN BY MYSELF OR MY AUTHORIZED AGENT, UNDER MY DIRECT SUPERVISION.

(3) I CERTIFY THAT THE PERMITTEE'S EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN PROVIDES FOR THE MONITORING OF: (a) ALL PERENNIAL AND INTERMEDIATE STREAMS AND OTHER WATER BODIES SHOWN ON THE USGS TOPOGRAPHIC MAP AND ALL OTHER FIELD VERIFIED PERENNIAL AND INTERMEDIATE STREAMS AND OTHER WATER BODIES; OR (b) WHERE ARE SUCH SPECIFIC IDENTIFIED PERENNIAL OR INTERMEDIATE STREAM AND OTHER WATER BODY IS NOT PROPOSED TO BE SAMPLED, HAVE DETERMINED IN MY PROFESSIONAL JUDGEMENT, UTILIZING THE FACTORS REQUIRED IN THE GENERAL NPDES PERMIT NO. GA00001, THAT THE INCREASE IN THE TURBIDITY OF EACH SPECIFIC IDENTIFIED SAMPLED RECEIVING WATER WILL BE REPRESENTATIVE OF THE INCREASE IN THE TURBIDITY OF A SPECIFIC IDENTIFIED UN-SAMPLED RECEIVING WATER.

(4) THE DESIGN PROFESSIONAL WHO PREPARED THE ES&PC PLAN IS TO INSPECT AND CERTIFY THE INSTALLATION OF THE INITIAL SEDIMENT STORAGE REQUIREMENTS, PERIMETER CONTROL BMP'S AND SEDIMENT BASINS IN ACCORDANCE WITH PART IV.A.5, WITHIN 7 DAYS AFTER INSTALLATION.

(5) I certify that the permittee's Erosion, Sedimentation and Pollution Control Plan provides for the monitoring of: (a) all perennial and intermittent streams and other water bodies shown on the USGS topographic map and all other field verified perennial and intermittent streams and other water bodies; or (b) where any such specific identified perennial or intermittent stream and other water body is not proposed to be sampled, have determined in my professional judgement, utilizing the factors required in General NPDES Permit No. GA00001, that the increase in turbidity of each specific identified sampled receiving water will be representative of the increase in the turbidity of a specific identified un-sampled receiving water.

RICHARD B. SAUNDERS, GSWCC LEVEL II CERTIFICATION: 00000000156

CONST. EXIT COORDINATES:

N-32.587684°
W-83.662820°

ROUTED FLOWS:	
STORM FREQUENCY	FLOWS (CFS)
Q2	2.70
Q5	3.17
Q10	5.19
Q25	9.63
Q50	14.26
Q100	16.82

CONSTRUCTION SCHEDULE:

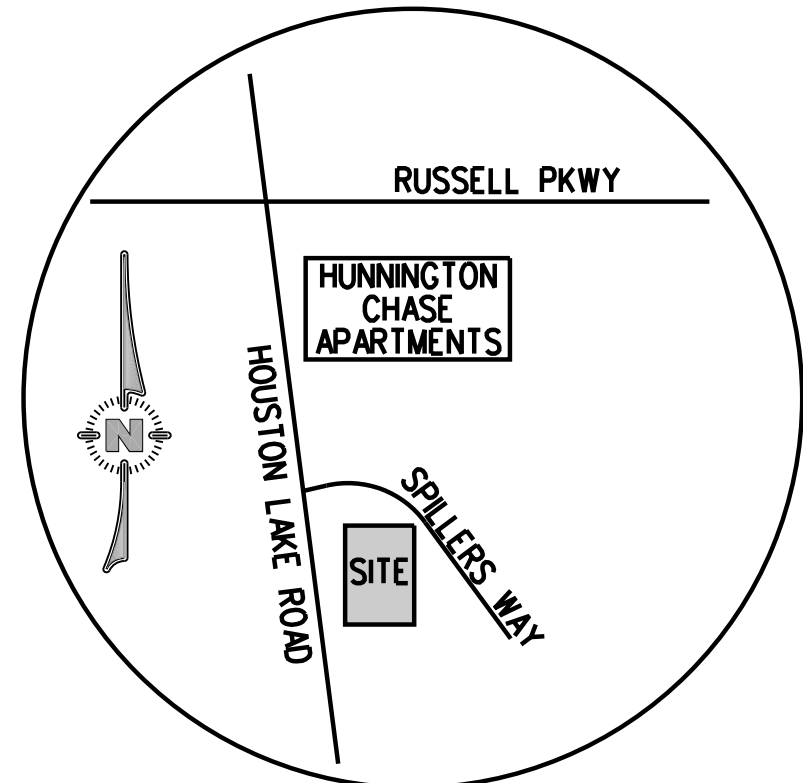
ITEM	DESCRIPTION	MONTHS OF CONSTRUCTION								
		1	2	3	4	5	6	7	8	9
1	SILT BARRIER INSTALLATION									
2	CLEARING AND GRUBBING									
3	RETENTION BASIN									
4	GRADING									
5	STORM DRAINAGE									
6	UTILITIES									
7	TEMPORARY GRASSING									
8	BUILDING									
9	CURB AND GUTTERS									
10	SIDEWALKS									
11	BASE AND PAVING									
12	FINAL GRASSING & REMOVAL OF TEMPORARY STRUCTURES									
13	MAINTAIN SOIL AND EROSION CONTROL MEASURES									

APPROX. STARTING DATE: MAY 15, 2025
APPROX. COMPLETION DATE: FEB 15, 2026

SOUTHERN COASTAL PLAIN VEGETATIVE COVERS				
MONTH	TEMPORARY SEED	RATE/ACRE	PERMANENT SEED	RATE/ACRE
January	Ryegrass*	40 lb.	Unhulled Bermuda Sericea Lespedeza*	6 lb. 75 lb.†
February			Unhulled Bermuda Sericea Lespedeza*	6 lb. 75 lb.
March	Rye Annual Lespedeza Weeping Lovegrass	28 lb. 10 lb. 2 lb.	Unhulled Bermuda Sericea Lespedeza*	6 lb. 75 lb.
April	Rye Brown Top Millet Annual Lespedeza Sudan Grass*	28 lb. 10 lb. 10 lb. 60 lb.	Weeping Lovegrass Hulled Bermuda Bahia	2 lb. 3 lb. 30 lb.
May	Weeping Lovegrass Sudan Grass* Brown Top Millet	2 lb. 60 lb. 10 lb.	Weeping Lovegrass Hulled Bermuda Bahia	2 lb. 6 lb. 30 lb.
June	Weeping Lovegrass Sudan Grass* Brown Top Millet	2 lb. 60 lb. 10 lb.	Weeping Lovegrass Hulled Bermuda	2 lb. 6 lb.
July	Weeping Lovegrass Sudan Grass* Brown Top Millet	2 lb. 60 lb. 10 lb.		
August	Ryegrass*	40 lb.		
September	Wheat	3 bu.	Sericea Lespedeza (Unscarified)	75 lb.
October	Wheat	3 bu.	Unhulled Bermuda Sericea Lespedeza*	6 lb. 75 lb.
November	Wheat	3 bu.	Unhulled Bermuda Sericea Lespedeza*	6 lb. 75 lb.
December	Wheat Ryegrass	3 bu. 40 lb.	Unhulled Bermuda Sericea Lespedeza*	6 lb. 75 lb.

* Use a minimum of 40 lbs. scarified seed. Remainder may be unscarified, clean hulled seed
† Use either common Sericea, or Interstate Sericea Lespedeza.
* Very competitive and is not to be used in mixtures.

FERTILIZER SHALL BE 10-10-10 AND APPLIED AT A RATE OF 1500 LB/ACRE
LIME SHALL BE APPLIED AT A RATE OF 2 TON/ACRE
MULCH SHALL BE APPLIED AT A RATE OF 2 TON/ACRE



LOCATION SKETCH

EROSION CONTROL AND TREE PROTECTION MEASURES SHALL BE INSTALLED PRIOR TO ANY OTHER CONSTRUCTION ACTIVITY AND MAINTAINED UNTIL PERMANENT GROUND COVER IS ESTABLISHED.

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

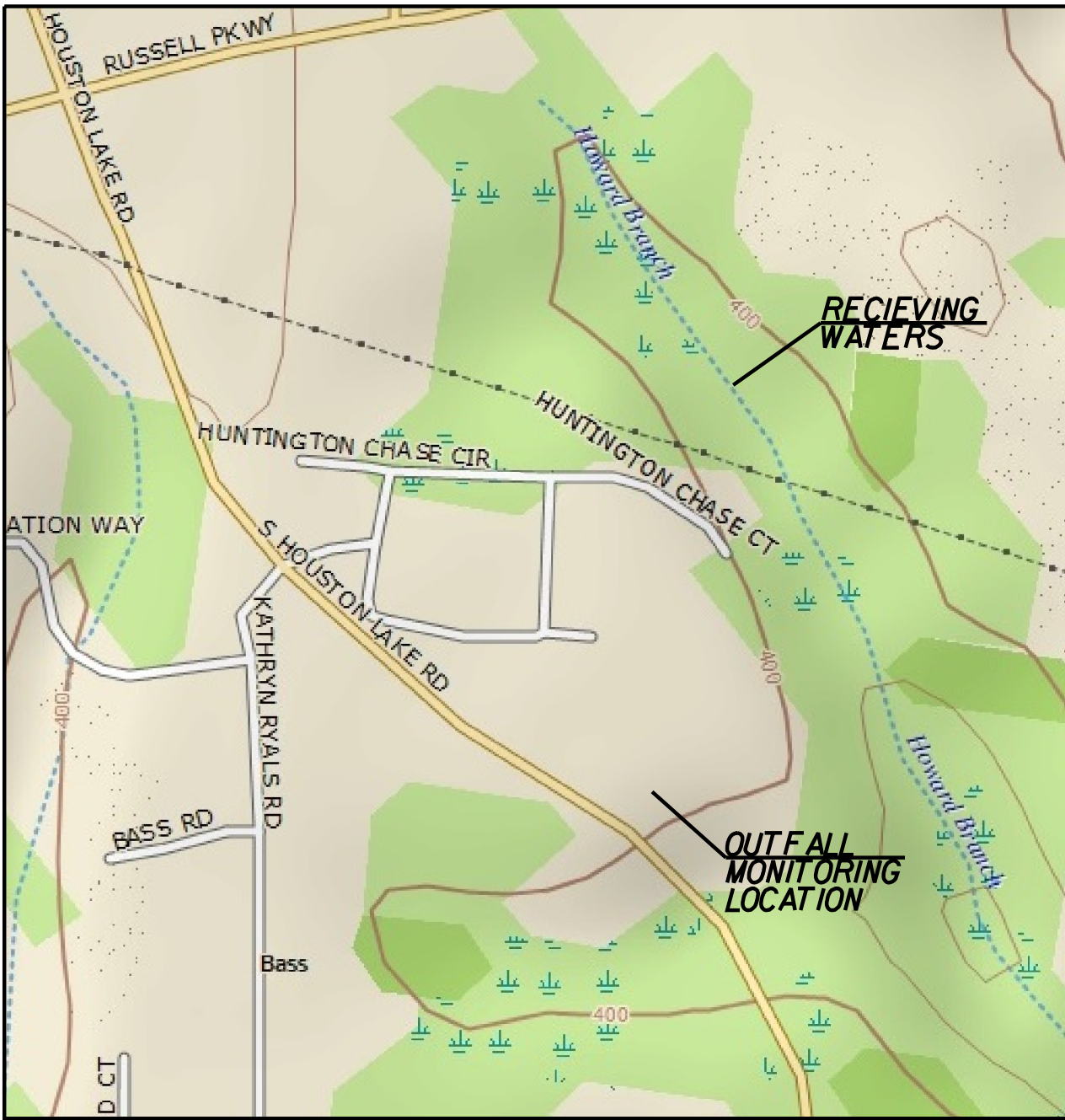
EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE

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

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 MARSHLAND BUFFER AS MEASURED FROM THE JURISDICTIONAL DETERMINATION LINE WITHOUT FIRST ACQUIRING THE NECESSARY VARIANCES AND PERMITS.

PRE-DEVELOPED FLOWS	
AREA = 3.61AC Cn=59 Tc=23.1min	
STORM FREQUENCY	FLOWS (CFS)
Q2	3.19
Q5	6.25
Q10	8.74
Q25	12.00
Q50	15.40
Q100	17.14

POST-DEVELOPED FLOWS	
AREA = 3.61AC Cn=76 Tc=8min	
STORM FREQUENCY	FLOWS (CFS)
Q2	11.20
Q5	17.31
Q10	21.61
Q25	27.24
Q50	32.94
Q100	35.80



WATERSHED MAP

SOIL DISTURBING ACTIVITIES INCLUDE:

Construction will begin with placement of perimeter silt protection barriers and construction entrances. After these erosion control best management practices have been installed, clearing and grubbing of vegetation will commence in areas that are to be disturbed. The site will then be graded and utilities will be trenched. Once brought to final grade, the roads will be paved while other exposed areas will be stabilized with vegetation, sidewalks or structures.

Soil Disturbing Activities Include:

- Installing a stabilized construction exit, perimeter and other erosion and sediment controls
- Clearing and grubbing
- Excavation of the foundation
- Grading and excavation for utilities
- Preparation for final planting and seeding
- Completion of on-site stabilization

SEQUENCE OF MAJOR ACTIVITIES

See construction schedule

LIMITS OF DISTURBANCE:

Limits of disturbance shall be no greater than 50 acres for each individual permittee (ie Primary, Secondary, or tertiary) at any one time and no more than 50 contiguous acres at one time without prior written authorization from the EPD district office. If EPD approves the request to disturb 50 acres or more at any one time the ES&PC plan must include at least 4 of the bmp's listed in appendix 1.

AMENDMENTS AND REVISIONS:

All amendments/revisions to the es&pc plan which have a significant effect on bmp's with a hydraulic component must be certified by the design professional and submitted to the local reviewing authority for review.

CRITICAL WORK ZONE
EROSION CONTROL NOTES:

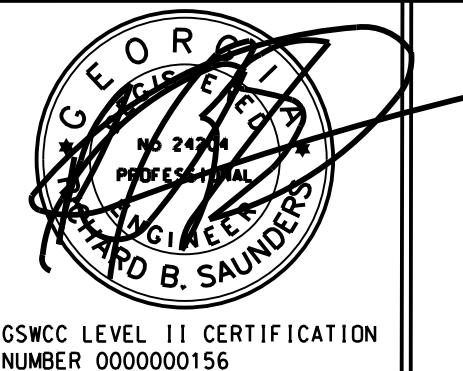
Shaded areas shown on grading phase erosion control plans represent critical work zones. At the end of each work day all slopes 2:1 or steeper and higher than 5 feet shall receive surface roughening, polymers, and erosion control matting. Additionally, all fill slopes shall receive a diversion dike and temporary down drains along the top of the slope preventing drainage spilling over the edge and down the face of the slope. The temporary down drains shall be constructed with perforated stand pipes at the top of the slope and reconstructed each day as the slope increases in height.

SOIL EROSION CONTROL NOTES

S Saunders
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SCALE

DATE REVISIONS DATE REVISIONS



GSWCC LEVEL II CERTIFICATION
NUMBER 0000000156

200 SPILLERS WAY

CITY OF WARNER ROBINS, GEORGIA
MACNASTY PROPERTIES, LLC
100 WILLINGTON COURT
WARNER ROBINS, GA 31088
SAUNDERS ENGINEERING CONSULTANTS, INC.
CIVIL/TRANSPORTATION CONSULTING ENGINEERS

DRAWN BY: 11-4
DATE: JULY, 2026
SCALE: NTS
SHEET NO: 10
JOB NO: 1361

CLEARING PHASE - EROSION CONTROL NOTES

Prior to the land disturbing construction,the contractor shall schedule a pre-construction meeting with the area site development inspector.

The contractor shall observe the project sequence shown on the plans.The contractor shall maintain careful scheduling and performance to ensure that land stripped of its natural cover is exposed only in small quantities.

The owner agrees to provide and maintain off-street parking on the subject property during the entire construction period.

No staging areas,material storage,concrete wash out areas,or debris burn and burial holes shall be located within 500 feet of designated tree protection areas.

A copy of the approved land disturbance plan and permit shall be present on the site at all times.The escape of sediment from the site shall be prevented by the installation of erosion and sediment control measures and practices prior to,or concurrent with, land-disturbing activities.

Prior to commencing land disturbance activity,the limits of land disturbance shall be clearly and accurately demarcated with stakes,ribbons,or other appropriate means. The location and extent of all authorized land disturbance activity shall be demarcated for the duration of the construction activity.No land disturbance shall occur outside the approved limits indicated on the approved plans.

Prior to any other construction,a stabilized construction entrance shall be constructed at each point of entry to or exit from the site or onto any public roadway. The following initial erosion control measures shall be implemented prior to any other construction activity.

1.The construction exit,consisting of a minimum pad size of 20 feet by 50 feet with a minimum of 6 inch thick stone shall be placed as shown on the plan.The stone size should consist of coarse aggregate between 1-1/2 inch & 3-1/2 inch in diameter and overlaid on a geotextile underliner.The geotextile underliner shall meet the requirements of AASHTO M288-96,section 7.3 separation requirements.

2.Immediately after the establishment of construction entrance/exits,all perimeter erosion control and storm water management devices shall be installed as shown on the clearing phase erosion control plan.

3.Type "C" silt fence should be installed at the perimeter of the disturbed area as shown on the plan.The silt fence should be placed in accordance with the manual for erosion control in Georgia,Table 6-202.The silt fence should be kept erect at all times and repaired when requested by the site inspector or the project design professional of record.Silt should be removed when accumulation reaches 1/2 height of the barrier.The perimeter silt fence should be inspected daily for any failures.Any failures of silt fencing should be repaired immediately.

4.Inlet sediment protection measures shall be installed on all existing storm structures as shown on the plan.See separate details for specifics on type of inlet protection specified.

5.Stone check dams shall be installed in areas of concentrated flows as shown on the plan.

6.Tree protection fencing should be installed prior to the start of any land disturbance activity and maintained until final landscape is installed.The tree protection fencing should be inspected daily.Any failures of silt fencing should be repaired immediately.

7.Two rows of type "C" silt fence shall be installed along all tributary or stream buffers as shown on the plan.The two rows of silt fence should be a minimum of 3 feet apart.

FINAL PHASE - EROSION CONTROL NOTES

The following erosion control measures shall be implemented during the final erosion control phase of construction.

Sediment shall not be washed into inlets.It shall be removed from the sediment traps and disposed of and stabilized so that it will not enter the inlets again.

Mulch or temporary grassing shall be applied to all exposed areas within 7 days of land disturbance.

All disturbed areas left mulched after 30 days shall be stabilized with temporary grassing.

The contractor shall maintain all sediment ponds and erosion control measures until permanent ground cover is established.Sediment shall be cleaned out of the ponds when it reaches the half way point on the riser.

After curbing has been installed and prior to construction of catchbasin tops,all inlet sediment traps on single and double wing catch basins along with any other curb inlets shall be removed and replaced with hay bale inlet protection.After catch basin tops have been poured,contractor shall utilize curb inlet protection "Pigs in a Blanket".See separate detail for additional information.

All roadway and parking shoulders should be applied with vegetative cover as soon as final grade is achieved behind curbs.

Sediment and erosion control measures should be checked after each rain event.Each device is to be maintained or replaced if sediment accumulation has reached one-half the capacity of the device.Additional devices must be installed if new channels have developed.

After installation of initial erosion control measures the site contractor shall schedule an inspection by the project design professional within 7 days of installation.No other construction activities shall occur until the project design professional approves the installation of said erosion control measures.If unforeseen conditions exist in the field that warrant additional erosion control measures,the contractor must construct any additional erosion control devices deemed necessary by the site inspection.

After approval of the initial erosion control installation,the contractor may proceed with clearing and grubbing activities.As clearing permits the contractor shall construct temporary sediment ponds and diversion dikes as shown on the clearing phase plan to control erosion and stormwater runoff.

The contractor can utilize cleared trees as barrier brush sediment control in areas shown on plan where initial grading activities will not occur.

No burn or bury pits shall be permitted on the construction site without written permission by the owner and/or the engineer of record.

Additional silt barriers must be placed as shown on the plan as access is obtained during clearing.No grading shall take place until silt barrier installation and sediment ponds are constructed as shown on the clearing phase erosion control plan.

All silt fence must meet the requirements of section 171-temporary silt fence for the department of transportation,state of Georgia,standard specifications,1983 edition.

All items in this section of the specifications shall meet the requirements as set forth in section 161,162,163,and 164 of the Georgia D.O.T.standard specifications, for roads and bridges.

Mulch or temporary grassing shall be applied to all exposed areas within 14 days of land disturbance.

All disturbed areas left mulched after 30 days shall be stabilized with temporary vegetation.

Sediment and erosion control measures should be checked after each rain event.Each device is to be maintained or replaced if sediment accumulation has reached one-half the capacity of the device.Additional devices must be installed if new channels have developed.

The construction exit shall be maintained in a condition which will prevent track or flow of mud onto public right-of-way.This may require periodic top dressing with 1-3 inches of stone,as conditions demand.All materials spilled,dropped,washed,or tracked from vehicle onto public roadway or into storm drain must be removed immediately.

Contractor shall inspect control measures at the end of each working day to ensure measures are functioning properly.

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 as directed by the onsite inspector or the civil engineer.

Failure to install,operate,or maintain all erosion control measures will result in all construction being stopped on the job until such measures are corrected back to the approved erosion control plans.

The site contractor will be responsible for maintenance of all erosion control measures including replacing or repairing any damaged devices due to any construction activity by others.

The construction exit shall be maintained in a condition which will prevent track or flow of mud onto public right-of-way.This may require periodic top dressing with 1-3" of stone,as conditions demand.All materials spilled,dropped,washed,or tracked from vehicle onto public roadway or into storm drain must be removed immediately.

Contractor shall inspect control measures at the end of each working day to ensure measures are functioning properly.

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 as directed by the onsite inspector or the civil engineer.

Failure to install,operate,or maintain all erosion control measures will result in all construction being stopped on the job until such measures are corrected back to the approved erosion control plans.

The site contractor will be responsible for maintenance of all erosion control measures including replacing or repairing any damaged devices due to any construction activity by others.

Upon completion of the project and receipt of certificate of occupancy,the contractor shall remove all temporary erosion control measures and dispose of them unless noted on plans.

GRADING PHASE - EROSION CONTROL NOTES

The following erosion control measures shall be implemented during the preliminary grading phase of construction.

During construction,the contractor shall maintain careful scheduling and performance to ensure that land stripped of its natural ground cover is exposed only in small quantities and therefore limited durations,before permanent erosion protection is established.Note sub phases shown on plans.

Earthwork operations in the vicinity of stream buffers shall be carefully controlled to avoid dumping or sloughing into the buffer areas.

Sediment shall not be washed into inlets.It shall be removed from the sediment traps and disposed of and stabilized so that it will not enter the inlets again.

Erosion control devices shall be installed immediately after ground disturbance occurs.The location of some of the erosion control devices may have to be altered from that shown on the approved plans if drainage patterns during construction are different from the proposed drainage patterns.It is the contractor's responsibility to accomplish erosion control for all drainage patterns created at various stages during construction.Any difficulty in controlling erosion during any phase of construction shall be reported to the design professional immediately.

The contractor shall furnish and maintain all necessary barricades while roadway frontage improvements are being made.

Type "A" silt fence should be installed at the toe of all fill slopes 10 feet or greater in height.The silt fence should be placed in accordance with the manual for erosion control in Georgia,Table 6-202.The silt fence shall be maintained until permanent ground cover is established on the slope.Silt shall be removed when accumulation reaches 1/2 height of the barrier.Additionally,diversion dikes shall be constructed along the top of all said fill slopes with the use of temporary down drains to control storm water run off as shown on the plans.See separate details for additional information.

The contractor shall be responsible for establishing silt fence at the toe of slopes under construction.These silt fence may be relocated and reused after permanent slope stabilization becomes fully established.As they are relocated,any defective materials in the silt fence shall be replaced.In addition,all debris and silt at the previous location shall be removed.

Type "A" silt fence shall be placed at the toe of all dirt stockpile areas.See separate details for additional information.

Cut and fill slopes are not to exceed "2H:1V"

At the end of each work day all newly disturbed slopes steeper than 2:1 and higher than 5 feet shall receive surface roughening,polymers,and erosion control matting.Additionally,all fill slopes shall receive a diversion dike and temporary down drains along the top of the slope preventing damage spilling over the edge and down the face of the slope.The temporary down drains shall be constructed with perforated stand pipes at the top of the slope and reconstructed each day as the slope increases in height.See separate details for additional information.

Inlet sediment protection measures shall be installed on all storm structures as they are constructed.See plan view for specific type and separate details for additional information on type of inlet protection specified.

Storm drain outlet protection shall be placed at all outlet headwalls as soon as the headwall is constructed.See separate details for additional information.

Stone check dams shall be installed in areas of concentrated flows as shown on the plan.See separate detail for additional information.

All drainage swales shall be applied with vegetative cover as soon as final grade is achieved.

All graded areas shall be applied with vegetative cover as soon as final grade is achieved.

Mulch or temporary grassing shall be applied to all exposed areas with 7 days of land disturbance.

All disturbed areas left mulched after 30 days shall be stabilized with temporary grassing.

After preliminary grading activities,the contractor shall construct temporary sediment basins and diversion dikes as shown on plan.The contractor shall maintain the sediment pond until permanent ground cover is established.Sediment shall be cleaned out of the ponds when it reaches the 1/3 depth of basin.See separate details for additional information.

Sediment and erosion control measures should be checked after each rain event.Each device is to be maintained or replaced if sediment accumulation has reached one-half the capacity of the device.Additional devices must be installed if new channels have developed.

The construction exit shall be maintained in a condition which will prevent track or flow of mud onto public right-of-way.This may require periodic top dressing with 1-3" of stone,as conditions demand.All materials spilled,dropped,washed,or tracked from vehicle onto public roadway or into storm drain must be removed immediately.

Contractor shall inspect control measures at the end of each working day to ensure measures are functioning properly.

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 as directed by the on site inspector or the civil engineer.

Failure to install,operate,or maintain all erosion control measures will result in all construction being stopped on the job until such measures are corrected back to the approved erosion control plans.

The Contractor will be responsible for maintenance of all erosion control measures including replacing or repairing any damaged devices due to construction by others.

GENERAL NOTES

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

2.EACH SECONDARY PERMITEE WILL BE PROVIDED WITH A COPY OF THE EROSION CONTROL PLANS OR PORTIONS OF THE PLAN APPLICABLE TO THEIR SITE AND EACH SECONDARY PERMITEE SHALL SIGN THE PLAN OR PORTION OF THE PLAN APPLICABLE TO THEIR SITE.

3.ANY AMENDMENT TO THE EROSION CONTROL PLANS WHICH HAVE A SIGNIFICANT EFFECT ON BMPs WITH A HYDRAULIC COMPONENT MUST BE CERTIFIED BY THE DESIGN PROFESSIONAL.

4.AFTER CONSTRUCTION,EROSION AND SEDIMENTATION WILL BE MANAGED BY STABILIZED LOT CONSISTING OF PAVED DRIVEWAY,GRASSING,LANDSCAPING,AND HOME SITE.

5.MINIMIZING WIND EROSION AND CONTROLLING DUST WILL BE ACCOMPLISHED BY ONE OR MORE OF THE FOLLOWING METHODS:

- A.COVERING 30% OR MORE OF THE SOIL SURFACE WITH NON-ERODABLE MATERIAL.
- B.ROUGHENING THE SOIL TO PRODUCE RIDGES PERPENDICULAR TO THE PREVAILING WIND.
- C.FREQUENT WATERING OF EXCAVATION AND FILL AREAS.
- D.PROVIDING GRAVEL OR PAVING AT ENTRANCE / EXIT DRIVES

EROSION AND SEDIMENT CONTROL

CONTROLS

All perimeter silt fences and construction exits shall be in place prior to any land disturbing activities.

Existing vegetation shall be left in place until such time that land disturbing activities are to take place upon that portion of the site.When construction activities have ceased in an area,that area shall be stabilized within 14 days if the area is not yet to final grade.It shall be mulched,if the area is to be final grade and will eventually contain site improvements such as the structures or sidewalks.It shall be temporarily seeded.Areas brought to final grade that will remain pervious are to be permanently seeded.Allowable exceptions from the NPDES General Permit,GAR 100002,are noted below.

Where the initiation of stabilization measures by the 14th day after construction activity temporary or permanently cease is precluded by snow cover or other adverse weather conditions,stabilization measures shall be initiated as soon as practicable.

Where construction activity will resume on a portion of the site within 21 days from when activities ceased,(eg,the total time period that construction activity is temporarily ceased is less than 21 days) then stabilization measures do not have to be initiated on that portion of the site by the 14th day after construction activity temporarily ceased.

Please refer to detail sheets for the land disturbance construction schedule and temporary and permanent grassing schedules.

Storm water from this development will be routed through the existing storm water systems and grass swales to the existing lake (detention).The storm water will be discharge from the detention facilities to a tributary of Big Indian Creek.

NON-STORM WATER DISCHARGES

All non-storm water discharges will be routed through on site BMPs and the storm water management systems where possible.These discharges include flushing of water and fire lines,irrigation,water,ground water,dewatering of pits or depressions within the construction site and rinse off water of non-toxic materials.

OTHER CONTROLS

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 lidded 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 emptied a minimum of once a 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.

Waste materials shall not be discharged to waters of the State,except as authorized by a Section 404 Permit.

CLEARING PHASE SEDIMENT BASIN RATIONAL NOTES:

THE PROPOSED DETENTION POND WILL BE RETROFITTED TO ACCOMODATE 67 CUBIC YARDS OF STORAGE PER ACRE DISTURBED.

AS PART OF THE CONSTRUCTION PROCESS,WATER QUALITY VOLUME WILL BE EXCAVATED FROM THE BOTTOM OF THE DETENTION POND TO CONTROL POLLUTANTS IN THE STORM WATER.

SOIL EROSION CONTROL NOTES

S Saunders Engineering Consultants, Inc. 104-C Gunn Road, Centerville, GA 31028 (478) 953-1228 (478) 953-1248 Fax	SCALE	DATE	REVISIONS	DATE	REVISIONS	GEORGIA REGISTERED PROFESSIONAL ENGINEER NO. 0000000156 B. SAUNDERS CSWCC LEVEL II CERTIFICATION NUMBER 0000000156			200 SPILLERS WAY	DRAWN BY:	DRAWING NO:
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											NTS
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PERMIT PART IV-D.4
(MAINTENANCE & INSPECTION OF
EROSION & SEDIMENT CONTROLS):

The following best management practice maintenance criteria are taken from the "Manual for Erosion and Sediment Control in Georgia," latest edition.

Construction exists shall be maintained in a condition that will prevent tracking or flow of mud onto public rights of way. This may require periodic top dressing with 1.5-3.5 inch stone as conditions demand, and repair and/or cleanup of any structures to trap sediment. All materials spilled, dropped, washed, or tracked from vehicles or site onto roadways or into storm drains must be removed immediately.

Retrofitt structures shall be kept clear of trash and debris. This will require continuous monitoring and maintenance, which includes sediment removal when one third of the sediment storage capacity has been lost.

Sediment shall be removed from silt fences once it has accumulated to one half the original height of the barrier. Filter fabric shall be replaced whenever it has deteriorated to such an extent that the effectiveness of the fabric is reduced (approximately six months).

Sediment shall be removed from sediment traps when the sediment has accumulated to one half the height of the trap. Sediment shall be removed from curb inlet protection immediately. For excavated inlet sediment traps, sediment shall be removed when one half of the sediment storage capacity has been lost to sediment accumulation.

Sediment shall not be washed into the inlet. It shall be removed from the sediment trap and disposed of and stabilized so that it will not enter the inlet again.

When the contributing drainage area has been permanently stabilized, all materials and any sediment shall be removed, and salvaged or disposed of properly. The disturbed area shall be brought to proper grade, then smoothed and compacted. Appropriately stabilize all disturbed areas around the inlet.

Repair all damages caused to temporary sediment basins by soil erosion or construction equipment at or before the end of each working day. Sediment shall be removed from the basin when it reaches the specified distance below the top of the riser. Sediment shall not enter adjacent streams or drainage ways during sediment removal or disposal. The sediment shall not be deposited downstream from the embankment, adjacent to a stream or floodplain.

Inspect rip rap outlet structures after heavy rains to see if any erosion around or below the rip rap has taken place or if stones have been dislodged. Immediately make all needed repairs to prevent further damage.

Roughened areas shall be seeded and mulched as soon as possible to obtain optimum seed germination and seedling growth.

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 50% cover or greater of the soil surface. Maintenance shall be required to maintain appropriate depth and 50% cover. Temporary vegetation may be employed instead of mulch if the area will remain undisturbed for less than six months. If an area will remain undisturbed for greater than six months, permanent vegetative techniques shall be employed.

PERMIT No. 100001 APPENDIX B NTU TABLE

State of Georgia
Department of Natural Resources
Environmental Protection Division

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Permit No. GAR100001

APPENDIX B

Nephelometric Turbidity Unit (NTU) TABLES

		Trout Streams							
		Surface Water Drainage Area, square miles							
		0-4.99	5-9.99	10-24.99	25-49.99	50-99.99	100-249.99	250-499.99	500+
Site Size, acres	1.00-10	25	50	75	150	300	500	500	500
	10.01-25	25	25	50	75	150	200	500	500
	25.01-50	25	25	25	50	75	100	300	500
	50.01-100	20	25	25	35	50	75	150	300
	100.01+	20	20	25	25	25	50	60	100
		Waters Supporting Warm Water Fisheries							
		Surface Water Drainage Area, square miles							
		0-4.99	5-9.99	10-24.99	25-49.99	50-99.99	100-249.99	250-499.99	500+
Site Size, acres	1.00-10	75	150	200	400	750	750	750	750
	10.01-25	50	100	100	200	300	500	750	750
	25.01-50	50	50	100	100	200	300	750	750
	50.01-100	50	50	50	100	100	150	300	600
	100.01+	50	50	50	50	50	100	200	100

To use these tables, select the site (acres) of the construction site. Then, select the surface water drainage area (square miles). The NTU matrix value arrived at from the above tables is the one to use in Part III.D.4.

Example 1: For a site size of 12.5 acres and a "trout stream" drainage area of 37.5 square miles, the NTU value to use in Part III.D.4 is 75 NTU.

Example 2: For a site size of 51.7 acres and "waters supporting warm water fisheries" drainage area of 72 square miles, the NTU value to use in Part III.D.4 is 100 NTU.

PERMIT PART IV-D.6
(SAMPLING REQUIREMENTS):

Storm water is to be sampled for nephelometric turbidity units (NTU) at the locations as shown on the plans. Per NPDES permit GAR 100001, for construction activities, the primary permittee must complete all sampling.

PERMIT PART IV-D.6
(SAMPLING REQUIREMENTS):

This permit requires the monitoring of nephelometric turbidity in receiving water(s) or outfalls in accordance with this permit. The following procedures constitute EPD's guidelines for sampling turbidity.

A. SAMPLING REQUIREMENTS SHALL INCLUDE THE FOLLOWING:

- a USGS topographic map, a topographic map of a drawing (referred to as a topographic map) that is a scale equal to or more detailed than a 1:24,000 map showing the location of the site or the common development; (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 (a) 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.
- A written narrative of site specific analytical methods used to collect and analyze the samples including quality control/quality assurance procedures. This narrative must include precise sampling methodology for each sampling location.
- When the permittee has determined that some or all outfalls will be sampled, a rationale must be included 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) (a trout stream of supporting warm water fisheries, etc.).
- 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 40CFR part 136 (unless after procedures have been approved); 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.

- Samples containers should be labeled prior to collecting the samples.
- Samples should be well mixed before transferring to a secondary container.
- Large mouth, well cleaned and rinsed glass or plastic jars should be used for collecting samples. The jars should be cleared thoroughly to avoid contamination.
- 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 collected no later than the next business day after their accumulation, unless flow through automated analysis is utilized. If automatic sampling is utilized and the automatic sampler is not activated during the qualifying event, the permittee must utilize manual sampling or rising stage sampling during the next qualifying event. Dilution of the samples is not required. Samples may be analyzed using a direct reading, properly calibrated turbidimeter. Samples are not required to be cooled.
- 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.

- 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 representative of the water quality of the receiving water(s) and/or the storm water outfalls using the following minimum guidelines:
 - The upstream sample for each receiving water(s) must be taken immediately upstream of the confluence of the first storm water discharge from the permitted activity (ie the discharge farthest upstream of the site) but upstream 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.
 - 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 (ie 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.
 - Ideally the samples should be taken from the horizontal and vertical center of the receiving water(s) at the storm water outfall channel(s).
 - Care should be taken to avoid stirring the bottom sediments in the receiving water(s) or in the outfall storm water channel.
 - The sampling container should be held so that the opening faces upstream.
 - The samples should be kept free from floating debris.
- Permittees do not have to sample sheet flow 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 according to the Plan (uniformly covered with landscaping materials in planted landscaped areas) or equivalent permanent stabilization measures as defined in the Manual (excluding a crop of annual vegetation and a seeding of forage crop perennials appropriate for the region). For infrastructure construction projects on land used for agricultural or silvicultural purposes, final stabilization may be accomplished by stabilizing the disturbed land for its agricultural or silvicultural use.
- 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.

- 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 monitoring receiving water and/or from a monitoring outfall location within forty five (45) minutes or as soon as possible.
- 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.
- Sampling by the permittee shall occur for the following events:
 - For each area of the site that discharges to a receiving water or from an outfall, the first rain event that reaches or exceeds 0.50 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 representative sampling location.
 - 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 0.50 inch with a storm water discharge that occurs during normal business hours as defined in this permit, either 30 days after the first sampling event or after all mass grading operations have been completed, but prior to submittal of a NOT. In the drainage area of the location selected as the representative sampling location, whichever comes first.
 - 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 0.50 inch during normal business hours until the selected turbidity standard is attained, or until post-storm event inspections determine that BMPs are properly designed, installed and maintained.
 - Where sampling pursuant to (a), (b) or (c) above is required but not possible for not required because there was no discharge, the permittee, in accordance with Part IV.D.4.(6), must include a written justification that does not relieve the permittee of any subsequent sampling obligations under (a), (b) or (c) above, and
 - Existing construction activities, ie those that are occurring on or before the effective date of this permit, that have met the sampling required by (a) 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) and (b) above by collecting turbidity samples from any rain event that reaches or exceeds 0.50 inch and allows for monitoring on any 11th of the day or week.

PART IV-E (REPORTING):

- The applicable permittees are required to submit the sampling results to the EPD at the address shown in Part IV.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(s) or the receiving water(s) beyond the minimum frequency stated in this permit must be reported in a similar manner to the EPD. Sampling reports must be submitted to EPD using the electronic submittal service provided by EPD. Sampling reports must be submitted to EPD until such time as a NOT is submitted in accordance with Part VI.
- All sampling reports shall include the following information:
 - The rainfall amount, date, exact place and time of sampling or measurements;
 - The name(s) of the certified personnel who performed the sampling and measurements;
 - The date(s) analyses were performed;
 - The time(s) analyses were initiated;
 - The name(s) of the certified personnel who performed analyses;
 - References and written procedures, when available, for the analytical techniques or methods used;
 - The results of such analyses, including bench sheets, instrument readouts, computer disks or tapes, etc., used to determine these results;
 - Results which exceed 1000 NTU shall be reported as "exceeds 1000 NTU;" and
 - 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 A of this permit. The permittee shall retain a copy of the proof of submittal of 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, if an electronic submittal is provided by EPD then the written correspondence may be submitted electronically. If required, a paper copy must also be submitted by return receipt certified mail or similar service.

PART IV-F (RETENTION OF RECORDS):

- 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 copy of all Notices if intent submitted to EPD;
 - A copy of the Erosion, Sediment, and Pollution Control Plan required by this permit;
 - The design professional's report of the results of the inspection conducted in accordance with Part IV.A.5, of this permit;
 - A copy of all monitoring information, results, and reports required by this permit;
 - A copy of all inspection reports generated in accordance with Part IV.D.4.A of this permit;
 - A copy of all violation summaries and violation summary reports generated in accordance with Part III.D.2 of this permit; and
 - Daily rainfall information collection in accordance with Part IV.D.4.A.I(c) of this permit
- Copies of all Notices of Intent, Notices of Termination, Inspection reports, sampling reports (including all calibration and maintenance records and all original strip chart readings) for continuous monitoring instrumentation, or other reports requested by the EPD, Erosion, Sedimentation and Pollution Control Plans, records of all data used to complete the Notice of Intent to be covered by this permit and all other records required by this permit shall be retained by the permittee who either produced or used it for a period of at least three years from the date that the NOT is submitted in accordance with Part VI of this permit. These records must be maintained at the permittee's primary place of business or at a designated 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 to the permittee.

COMPLIANCE WITH FEDERAL, STATE, AND LOCAL REGULATIONS

The contractor will obtain copies of any and all local and state regulations that are applicable to storm water management, erosion control, and pollution minimization at this job site and will comply fully with such regulations. The contractor will submit written evidence of such compliance if requested by the owner or any agent of a regulatory body. The contractor will comply with all conditions of any and all local, state, and federal agencies that have governing authority, including the conditions related to maintaining the ES&PC and evidence of compliance with the ES&PC at the job site and allowing regulatory personnel access to the job site and to records in order to determine compliance.

DESIGN PROFESSIONAL 7-DAY VISIT CERTIFICATION

The primary permittee and tertiary permittee(s) must retain the design professional who prepared the plan, except when the permittee has requested in writing and EPD has agreed to an alternate design professional, to inspect the installation of the initial sediment storage requirements and perimeter control BMP's which the design professional

The design professional shall determine if these BMP's have been installed and are being maintained as designed. The design professional shall report the results of the inspection to the primary permittee within seven (7) days and the permittee must correct all deficiencies within two (2) business days of receipt of the inspection report from the design professional unless weather related site conditions are such that additional time is required.

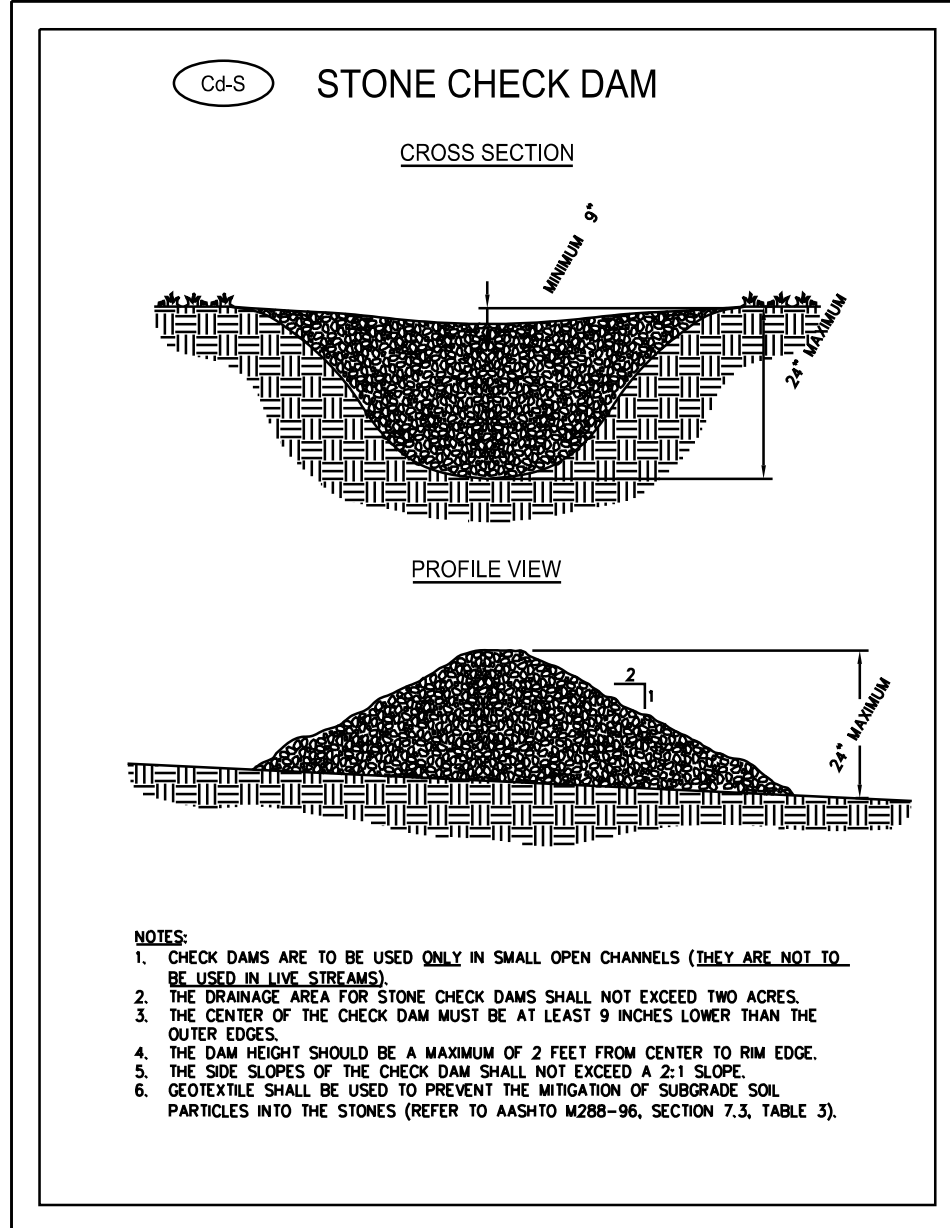
DATE OF INSPECTION

I certify the site was in compliance with the ES&PC Plan on the date of inspection

GSWCC LEVEL II DESIGN PROFESSIONAL CERTIFICATION *

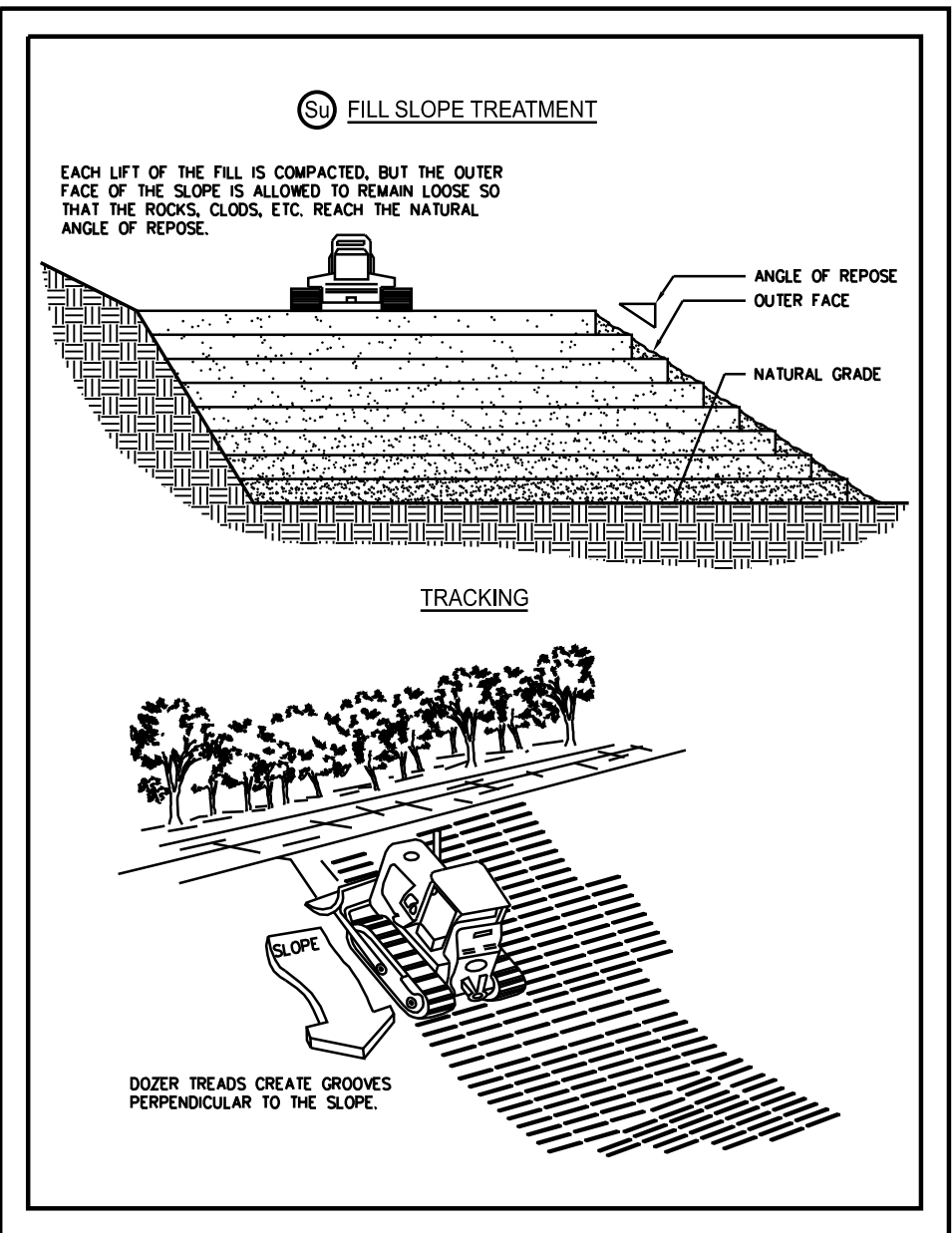
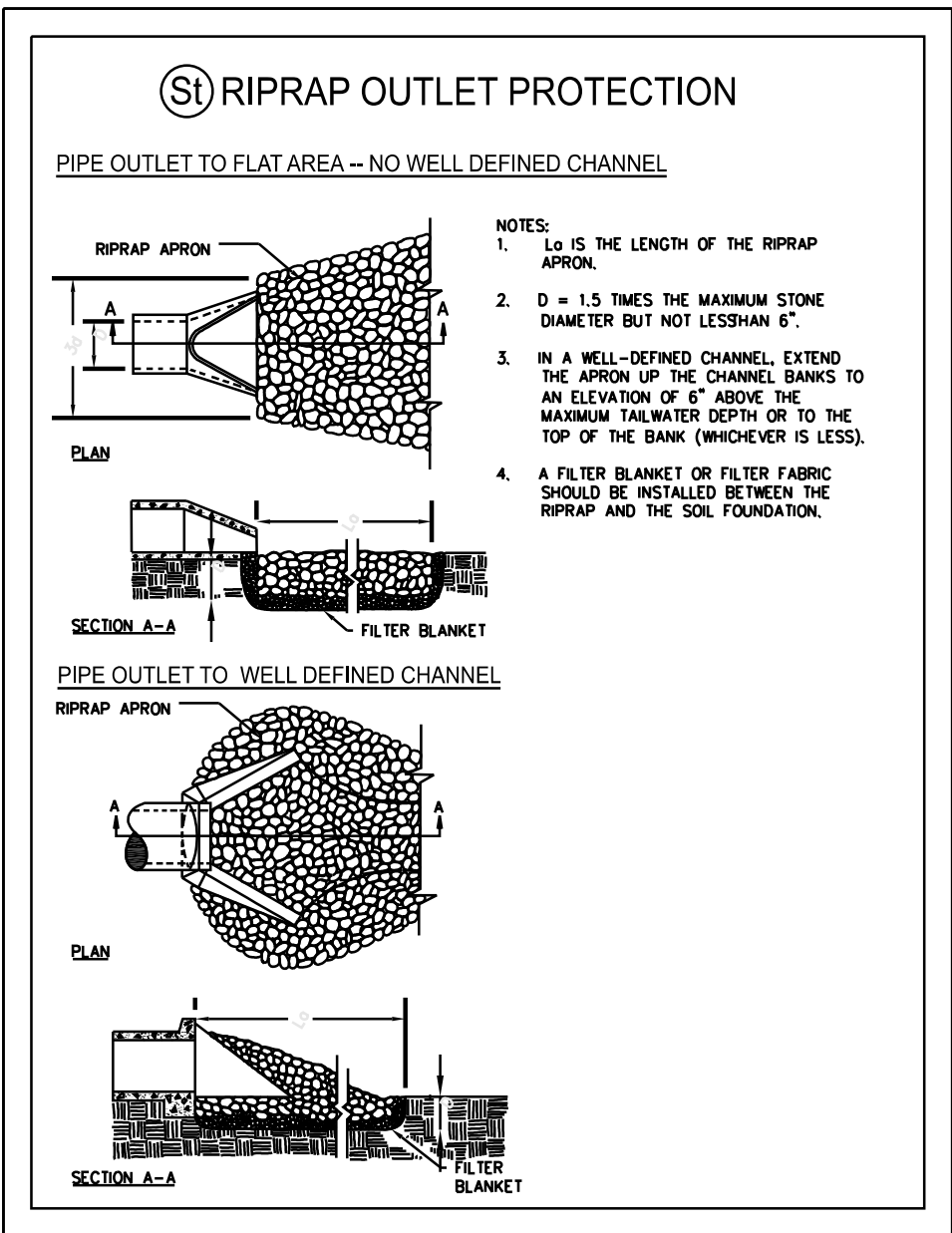
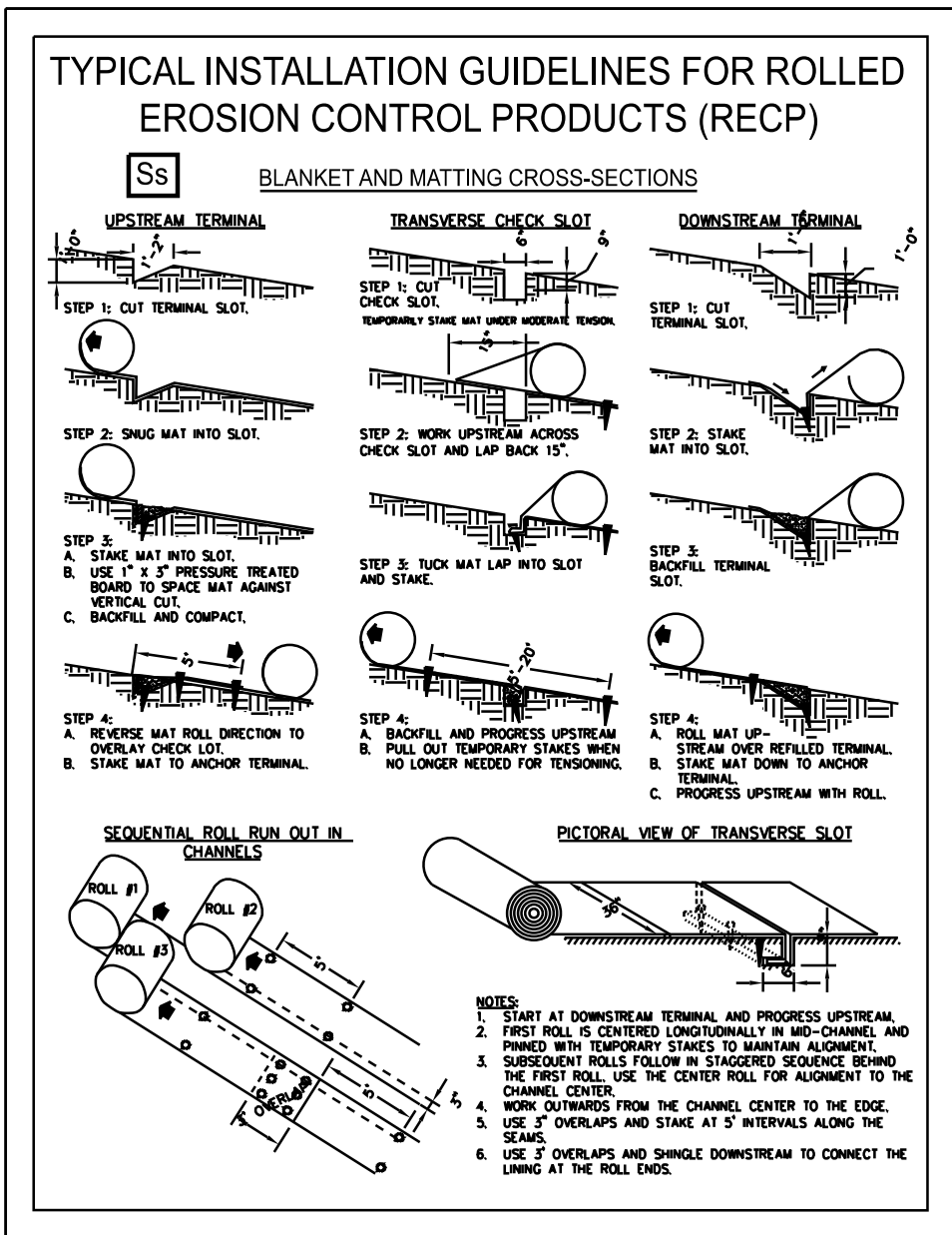
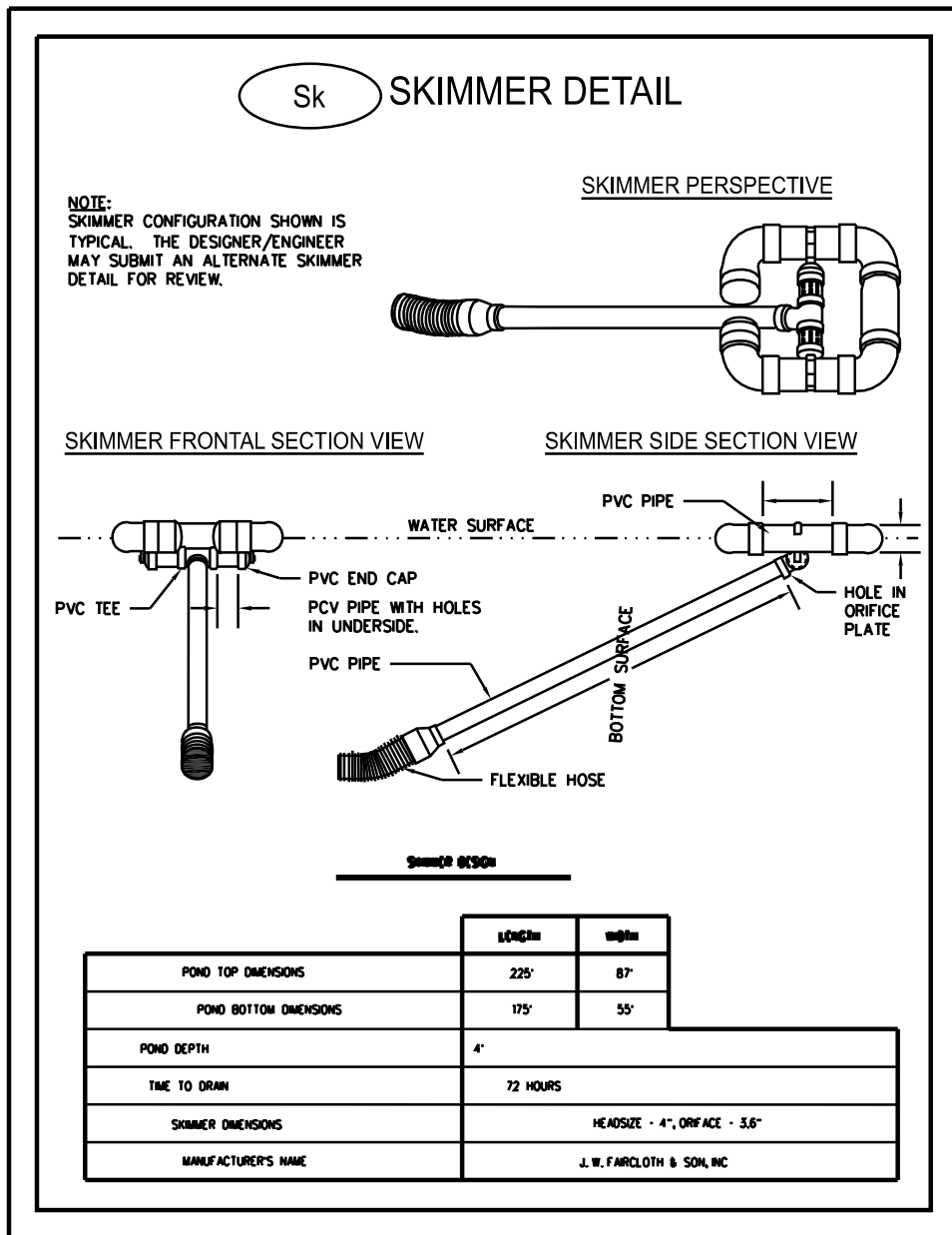
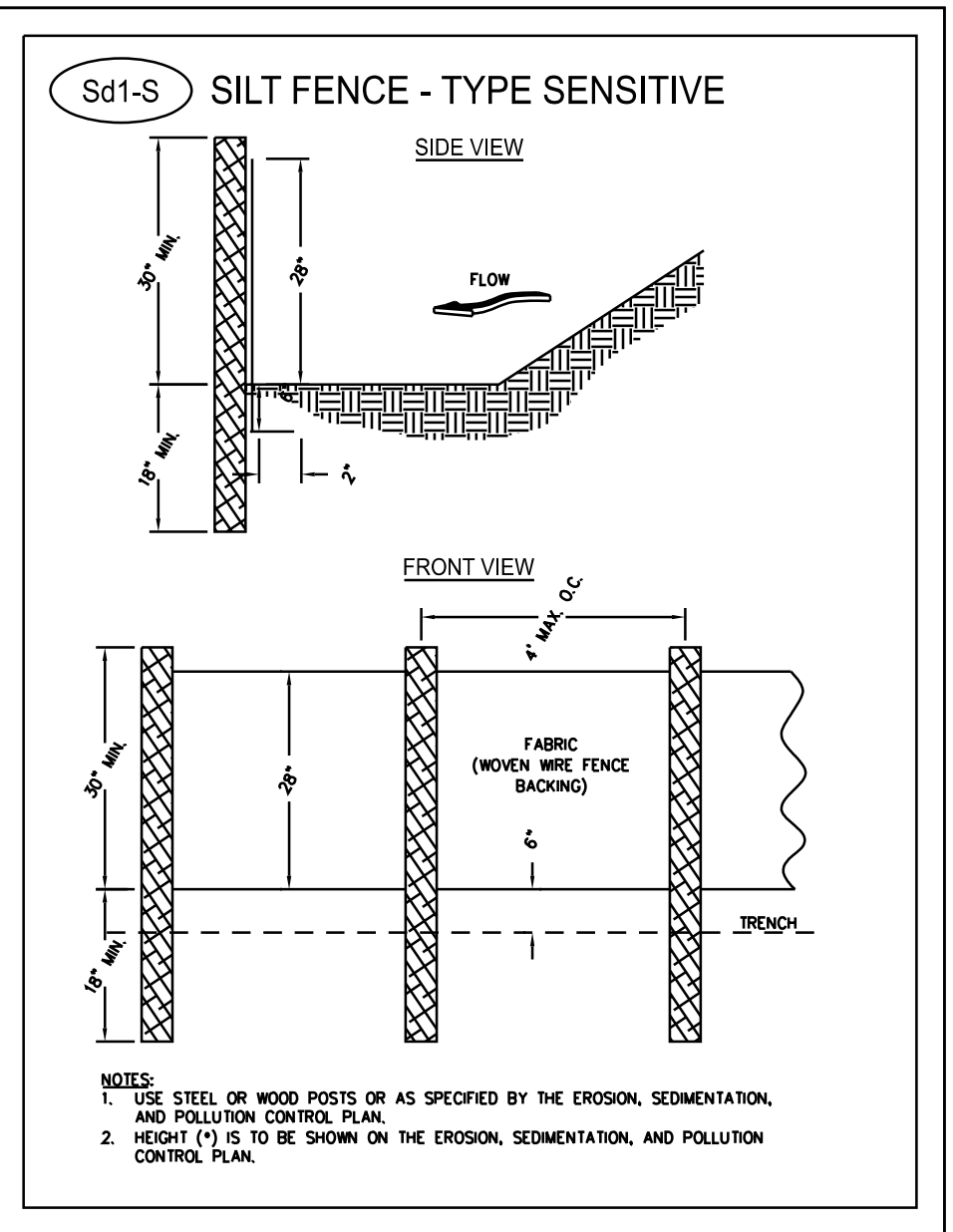
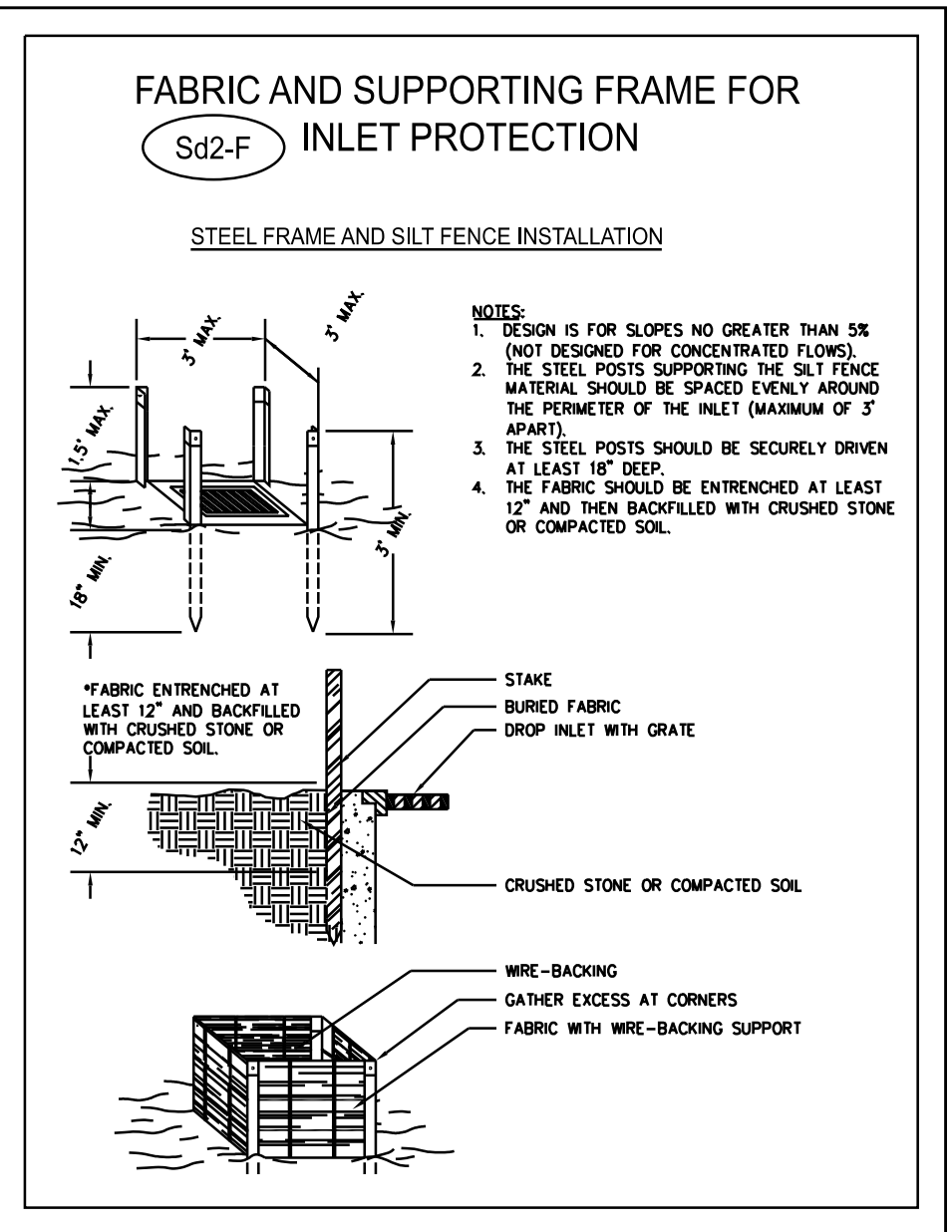
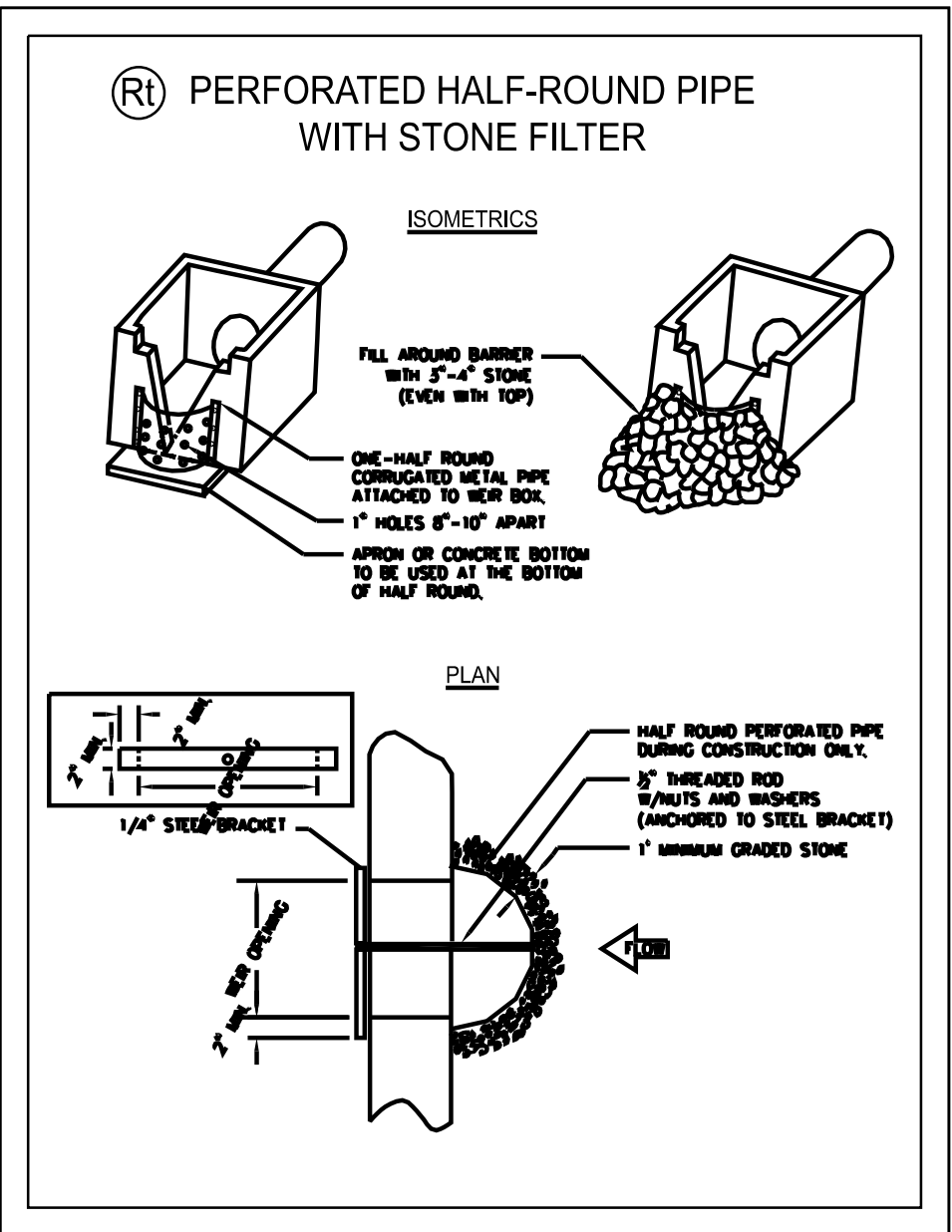
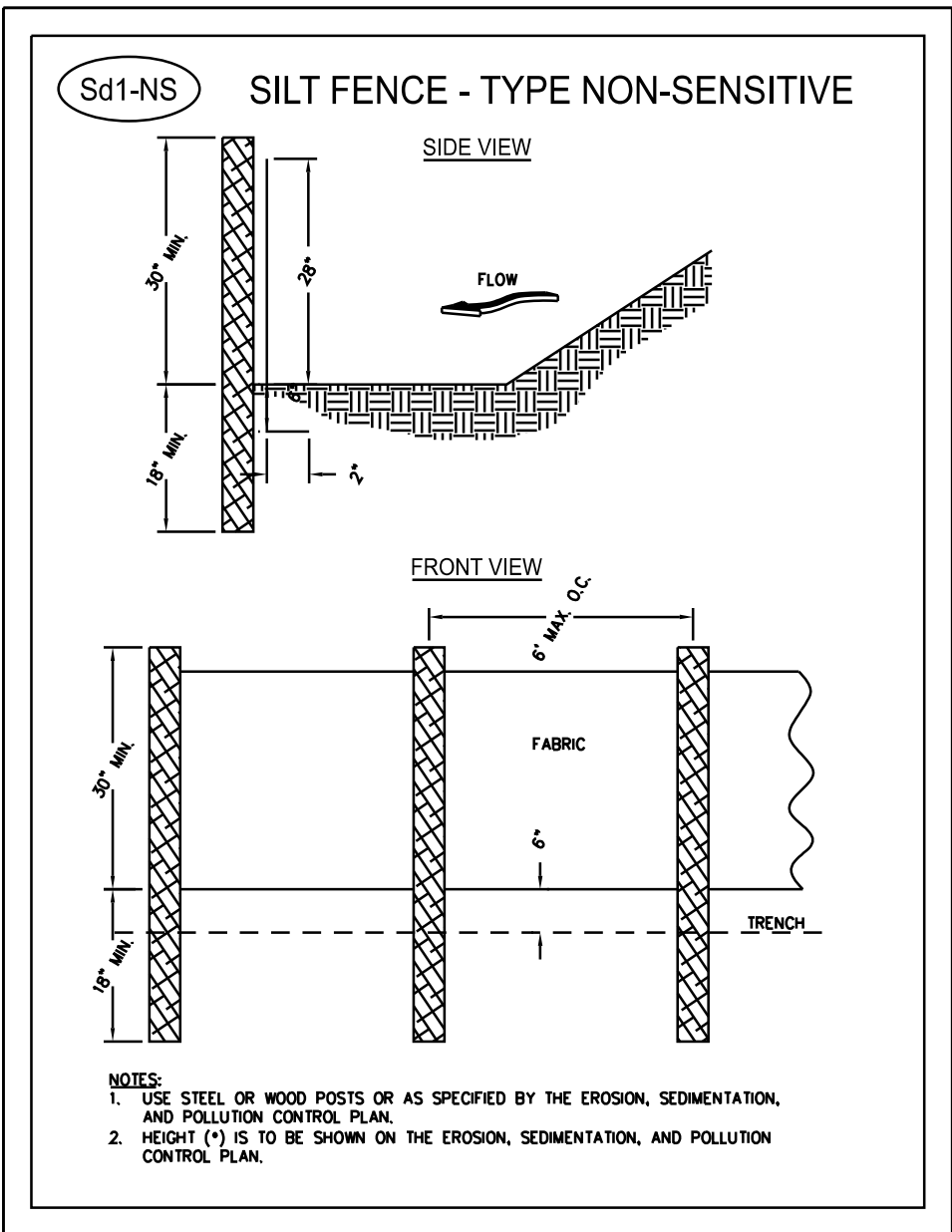
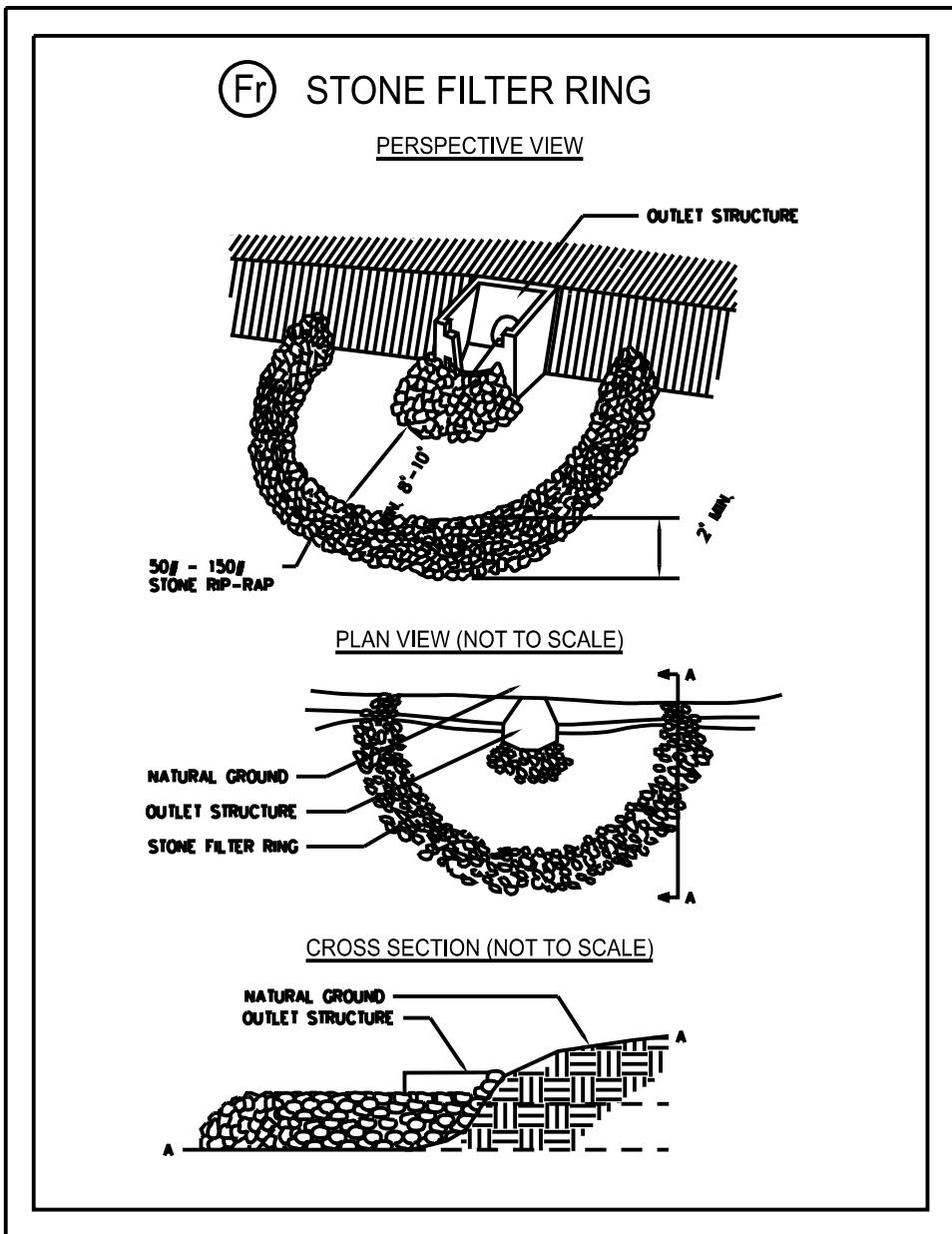
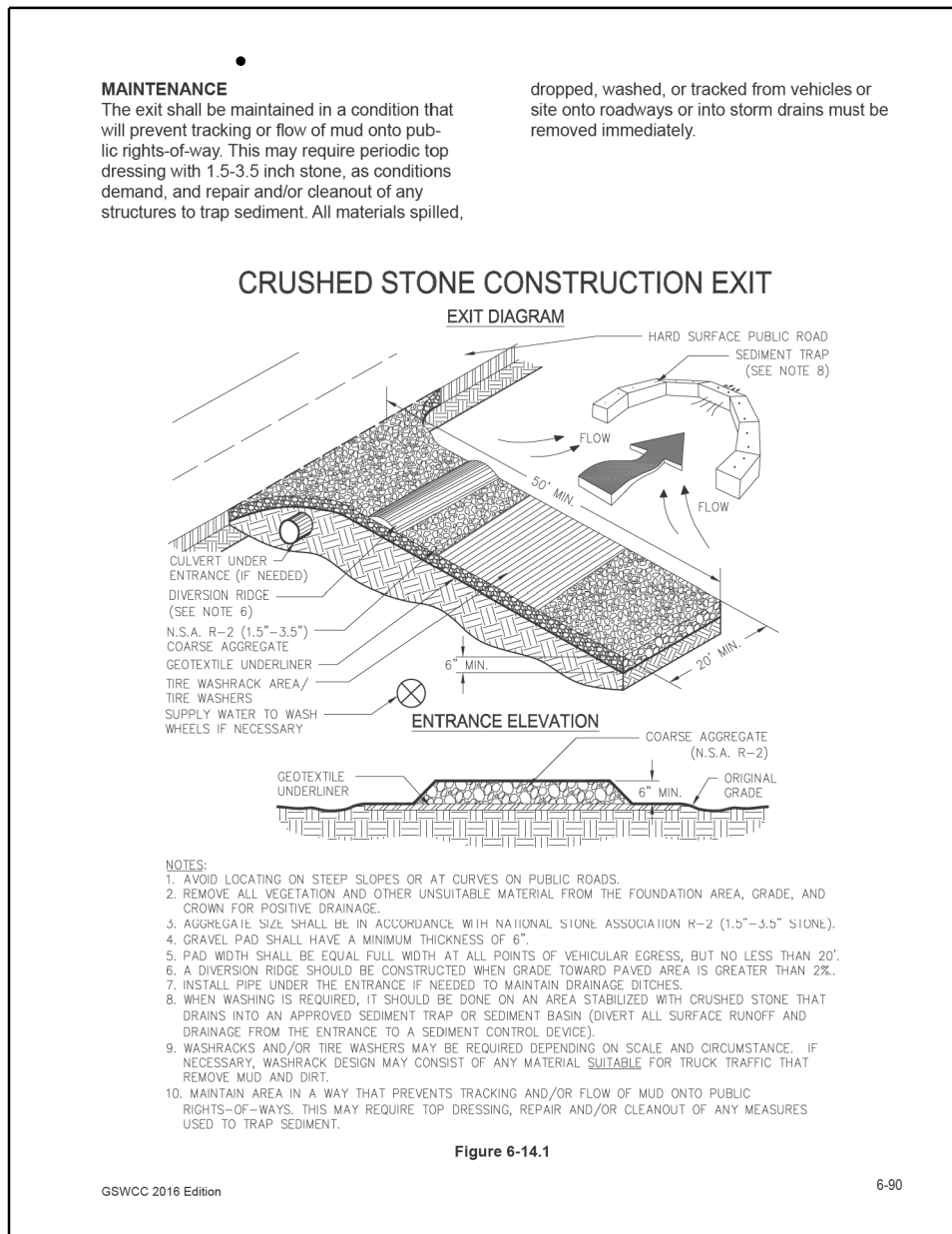
Inspection revealed the following discrepancies from the ES&PC Plan

These deficiencies must be addressed as required by law and a re-inspection should be scheduled with the design professional.



SOIL EROSION CONTROL NOTES

 104-C Gunn Road, Centerville, GA 31028 (478) 953-1228 (478) 953-1248 Fax	SCALE	DATE	REVISIONS	DATE	REVISIONS	 GSWCC LEVEL II CERTIFICATION NUMBER 0000000156	200 SPILLERS WAY	DRAWN BY:	DRAWING NO:
								CITY OF WARNER ROBINS, GEORGIA	11-7
								DATE: JULY, 2026	SCALE: NTS
								JOB NO: 1361	SHEET NO: 13



GEORGIA UNIFORM CODING SYSTEM FOR SOIL EROSION AND SEDIMENT CONTROL PRACTICES
GEORGIA SOIL AND WATER CONSERVATION COMMISSION

STRUCTURAL PRACTICES	VEGETATIVE PRACTICES
STRUCTURAL PRACTICES 1. BARRIERS: Solid board fences, snowfences, burlap fences, straw bales, bales of hay and similar material can be used to control air currents and soil blowing. Barriers placed at right angles to prevailing currents at intervals of about 15 times their height are effective in controlling wind erosion. 2. CALCULUM CHLORIDE: Apply at rate that will keep surface moist. May need reapplication. 3. PERMANENT VEGETATION: See specification Ds3 - Disturbed Area Stabilization (With Permanent Vegetation). Existing trees and large shrubs may afford valuable protection if left in place. 4. TOPSOILING: This entails covering the surface with less erodible soil material. See specification Tp - Topsoiling. 5. STONE: Cover surface with crushed stone or coarse gravel. See specification Cr - Construction Road Stabilization.	VEGETATIVE PRACTICES 1. MULCHES: See standard Ds1 - Disturbed Area Stabilization (With Mulching Only). Synthetic rears may be used instead of asphalt to bind mulch material. Refer to specification Tac - Tackifiers. Resins should be used according to manufacturer's recommendations. 2. VEGETATIVE COVER: See specification Ds2 - Disturbed Area Stabilization (With Temporary Seeding). 3. SPRAY-ON ADHESIVES: These are used on mineral soils (not effective on track soils). Keep traffic off these areas. Refer to specification Tac - Tackifiers. 4. TILLAGE: This practice is designed to roughen and bring seeds to the surface. It is an emergency measure that should be used before wind erosion starts. Begin plowing on windward side of site. Chisel-type plows spaced about 12 inches apart, spring-toothed harrows, and similar plows are examples of equipment that may produce the desired effect. 5. IRRIGATION: This is generally done as an emergency treatment. Site is sprinkled with water until the surface is wet. Repeat as needed.

Dust Control on Disturbed Areas
Du

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

PURPOSE
To prevent surface and air movement of dust from exposed soil surfaces.

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

METHOD AND MATERIALS
A. Temporary Methods
Mulches: See standard Ds1 - Disturbed Area Stabilization (With Mulching Only). Synthetic rears may be used instead of asphalt to bind mulch material. Refer to specification Tac - Tackifiers. Resins should be used according to manufacturer's recommendations.

VEGETATIVE COVER: See specification Ds2 - Disturbed Area Stabilization (With Temporary Seeding).

SPRAY-ON ADHESIVES: These are used on mineral soils (not effective on track soils). Keep traffic off these areas. Refer to specification Tac - Tackifiers.

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

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

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

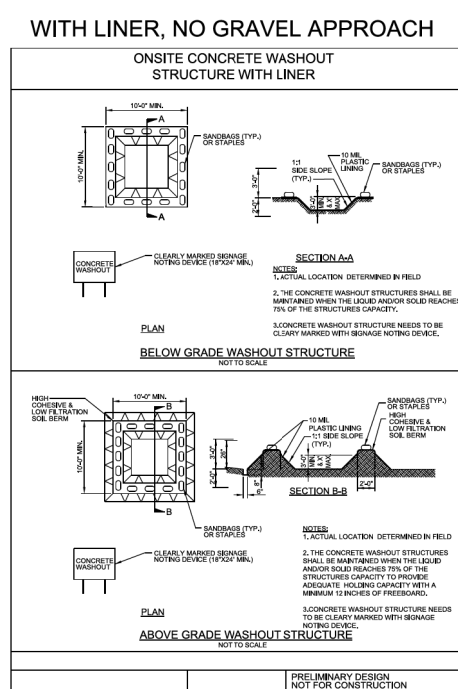
CALCIUM CHLORIDE: Apply at rate that will keep surface moist. May need reapplication.

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

TOPSOILING: This entails covering the surface with less erodible soil material. See specification Tp - Topsoiling.

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

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LOCATION	SIZE	CFS	VELOCITY	T.W. COND.	L _o	W1	W2	d50	D
OUTLET#1	24"	17	6.9	MINIMUM	14'	6'	16'	0.50'	1'
OUTLET#2	18"	10	4.8	MINIMUM	12'	5'	14'	0.50'	1'



Know what's below.
Call before you dig.

CONCRETE WASHDOWN DETAIL

SOIL EROSION CONTROL NOTES

S Saunders
Engineering
Consultants, Inc.
104-C Gunn Road, Centerville, GA 31028
(478) 953-1228 (478) 953-1248 Fax

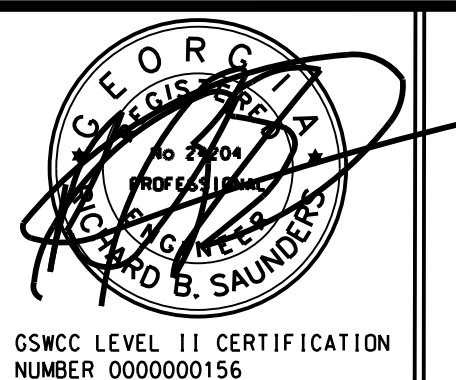
SCALE

DATE

REVISIONS

DATE

REVISIONS



200 SPILLERS WAY

CITY OF WARNER ROBINS, GEORGIA
MACNASTY PROPERTIES, LLC
100 WILLINGTON COURT
WARNER ROBINS, GA 31088
SAUNDERS ENGINEERING CONSULTANTS, INC.
CIVIL/TRANSPORTATION CONSULTING ENGINEERS

DRAWN BY:

DATE:

JULY, 2026

JOB NO:

1361

DRAWING NO:

11-8

SCALE:

NTS

SHEET NO:

14

Dust Control on Disturbed Areas



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

PURPOSE
To prevent surface and air movement of dust from exposed soil surfaces.

To reduce the presence of airborne substances that may be harmful or injurious to human health, welfare, or safety, or to animals or plant life.

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

METHOD AND MATERIALS

A. Temporary Methods

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

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

Spray-on Adhesives. These are used on minor areas not effective on most soils. Keep traffic off these areas. Refer to specification Tsc - Tackifiers.

Tillage. This practice is designed to roughen and bring clods to the surface. It is an emergency

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measure that should be used before wind erosion treatment. Site is sprinkled with water until the surface is wet. Repeat as needed.

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

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

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

B. Permanent Methods

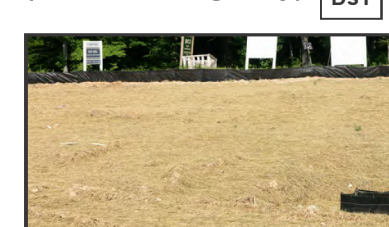
Permanent Vegetation. See specification Ds3 - Disturbed Area Stabilization (With Permanent Vegetation). Existing trees and large shrubs may afford valuable protection if left in place.

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

Stone. Cover surface with crushed stone or off-site gravel. See specification G-Construction Road Stabilization.

6-55

Disturbed Area Stabilization (With Mulching Only)



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 crust
To control undesirable vegetation
To modify soil temperature
To increase biological activity in the soil

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

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

Stone. Cover surface with crushed stone or off-site gravel. See specification G-Construction Road Stabilization.

REQUIREMENT FOR REGULATORY COMPLIANCE

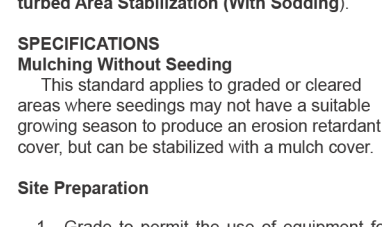
Mulch or temporary grassing shall be applied to all exposed areas within 14 days of disturbance. Mulch can be used as a singular erosion control device for up to six months, but it shall be applied at the appropriate depth, depending on the material used, anchored and have a continuous 50% cover or greater of the soil surface.

Maintenance shall be required to maintain appropriate depth and 50% cover. Temporary vegetation may be employed instead 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 -

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turbed Area Stabilization (With Temporary Seeding)



DEFINITION
Applying plant residues or other suitable materials, produced on the site if possible, to the soil surface.

PURPOSE
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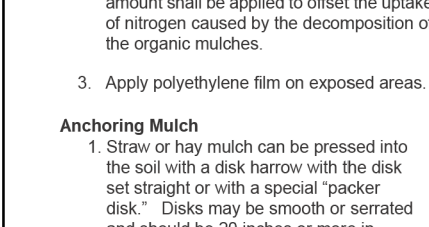
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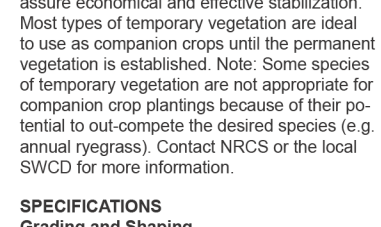
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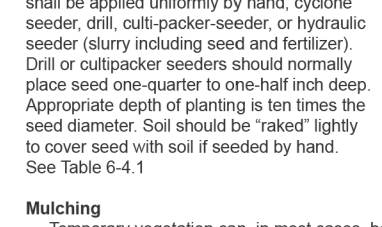
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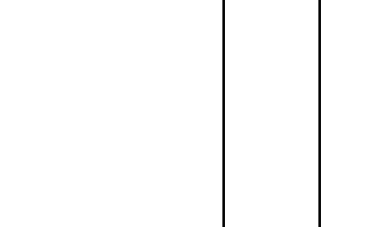
Mulch or temporary grassing shall be applied to all exposed areas within 14 days of disturbance. Mulch can be used as a singular erosion control device for up to six months, but it shall be applied at the appropriate depth, depending on the material used, anchored and have a continuous 50% cover or greater of the soil surface.

Maintenance shall be required to maintain appropriate depth and 50% cover. Temporary vegetation may be employed instead 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 -

GSWCC 2016 Edition

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 crust
To control undesirable vegetation
To modify soil temperature
To increase biological activity in the soil

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

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

Stone. Cover surface with crushed stone or off-site gravel. See specification G-Construction Road Stabilization.

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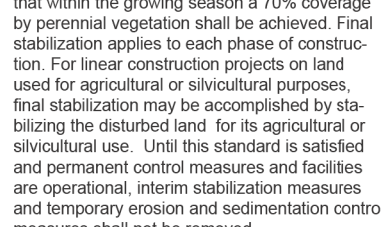
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Wildlife Plantings

Commercially available plants beneficial to wildlife species include the following:

Must Bearing Trees
Beech, Black Cherry, Blackgum, Chestnut, Chinquapin, Hackberry, Hickory, Honey Locust, Native Oak, Persimmon, Sawtooth Oak and Sweetgum.

All trees that produce nuts or fruits are favored by many game species. Hickory produces nuts used mainly by squirrels and bear.

Shrubs and Small Trees
Bayberry, Blackberry, Crabapple, Dogwood, Huckleberry or Native Blueberry, Mountain Laurel, Native Holly, Red Cedar, Red Mulberry, Sumac, Wax Myrtle, Wild Plum and Blackberry.

Plant in patches without tall trees to develop stable shrub communities. All produce fruits used by many kinds of wildlife, except for lespedeza that produces seeds used by quail and songbirds.

Grasses, Legumes, Vines and Temporary Cover
Bahia grasses, Bermudagrass, Grass-Legume mixtures, Partridge Pea, Annual Lespedeza, Orchardgrass (for mounds), Bromium Millet (for temporary cover), and Native grasses.

Provides herbaceous cover in clearings for a game bird brood-rearing habitat. Appropriate legumes such as vetches, clovers, and lespedezas may be mixed with grass, but they may die out after a few years.

CONSTRUCTION SPECIFICATIONS
Grading and Shaping

Grading and shaping may not be required where hydraulic seeding and fertilizing equipment is to be used. Vertical banks shall be sloped to enable plant establishment.

When conventional seeding and fertilizing are to be done, grade and shape where feasible and practical, so that equipment can be used safely and efficiently during seedbed preparation, seeding, mulching and maintenance of the vegetation.

Concentrations of water that will cause excessive

soil erosion shall be diverted to a safe outlet. Diversions and other treatment practices shall conform with the appropriate standards and specifications.

Line and Fertilizer Rates and Analysis
Agricultural lime is required at the rate of one to two tons per acre unless soil tests indicate otherwise. Graded areas require lime application. If lime is applied within six months of planting, permanent perennial vegetation, additional lime is not required. Agricultural lime shall be within the specifications of the Georgia Department of Agriculture.

Lime spread by conventional equipment shall be ground limestone. Ground limestone is calcitic or dolomitic limestone ground so that 90 percent of the material will pass through a 10-mesh sieve, not less than 50 percent will pass through a 50-mesh sieve and not less than 25 percent will pass through a 100-mesh sieve.

Fast-acting lime spread by hydraulic seeding equipment shall be produced by lime that produces seeds used by quail and songbirds.

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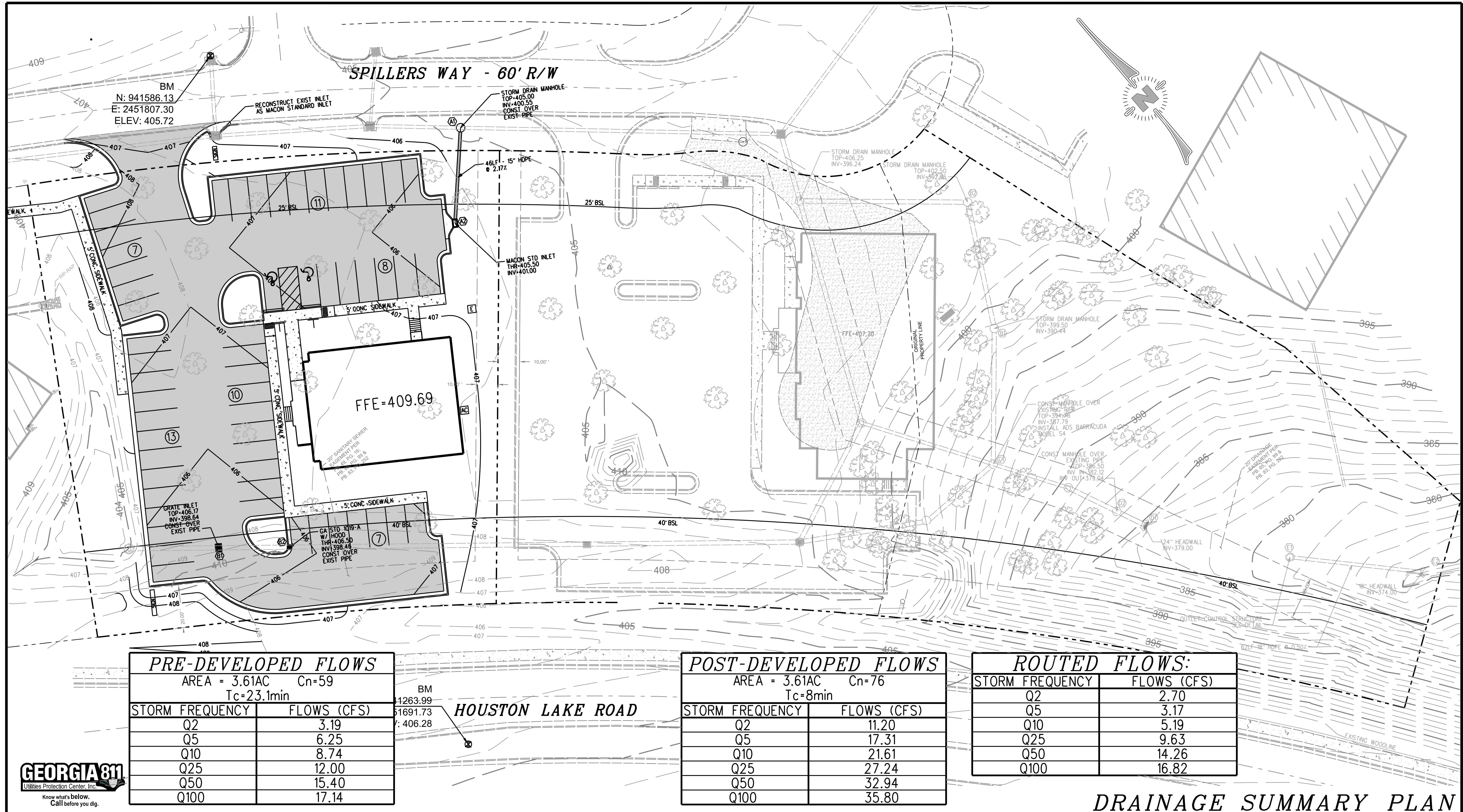
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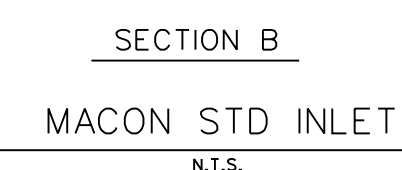
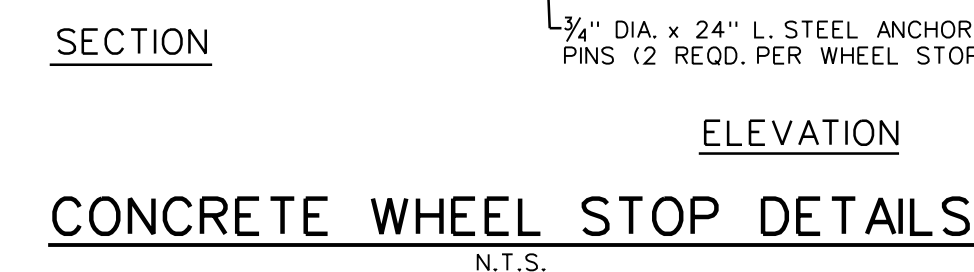
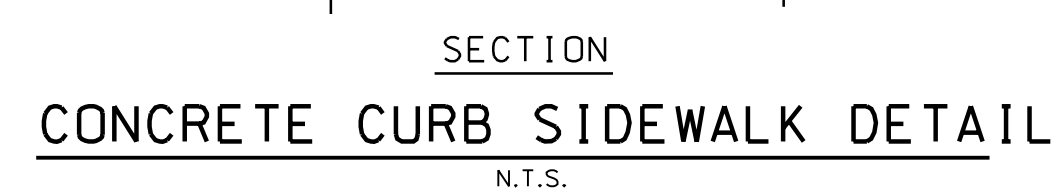
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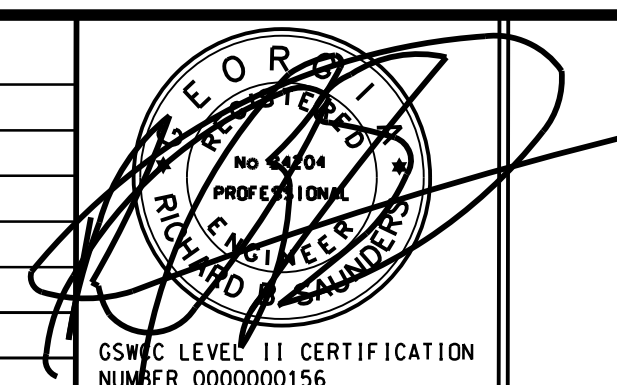
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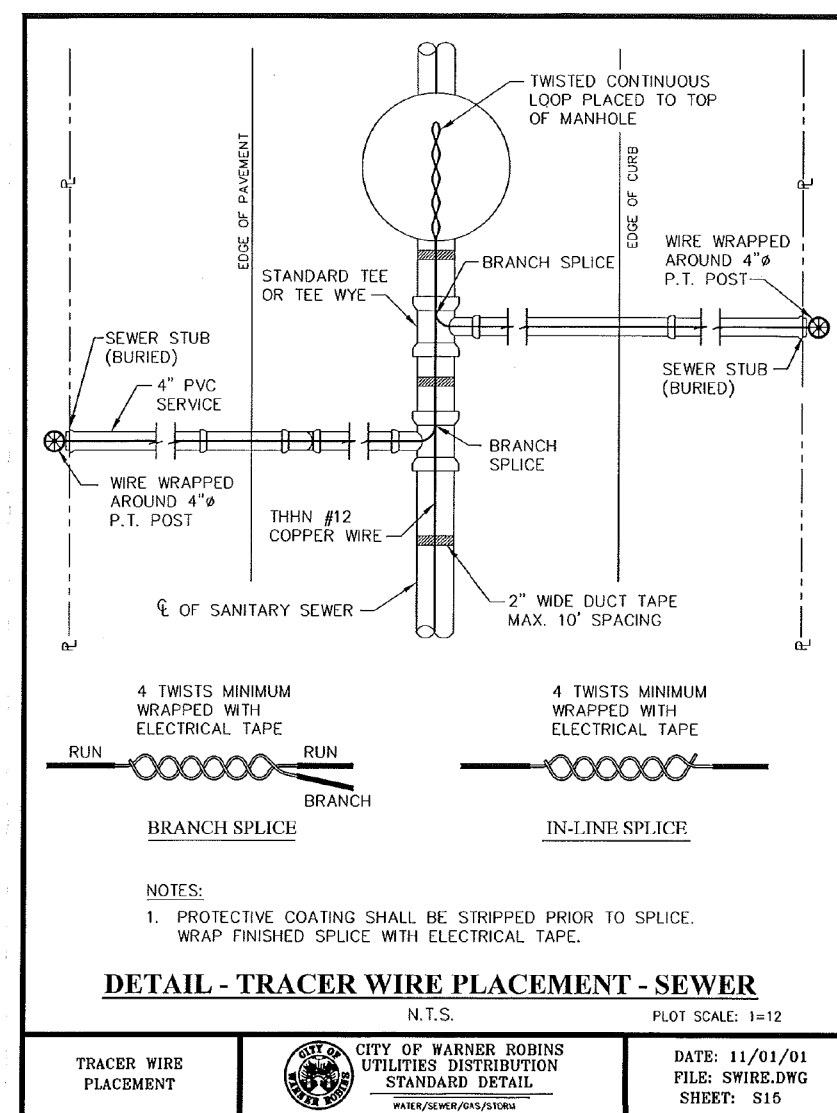
SCALE	DATE	REVISIONS	DATE	REVISIONS



200 SPILLERS WAY CITY OF WARNER ROBINS, GEORGIA JDS LAND DEVELOPMENTS, LLC 400 SPILLERS WAY WARNER ROBINS, GA 31088 SAUNDERS ENGINEERING CONSULTANTS, INC.	DRAWN BY:	DRAWING NO:
	DATE:	SCALE:
	JULY, 2026	AS SHOWN
		SHEET NO:
	JOB NO:	17
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