

WILLIE DR WATER EXTENSION FOR THE CITY OF PEMBROKE BRYAN COUNTY, GEORGIA DATE: MARCH 07, 2023

SHEET INDEX:
DESCRIPTION

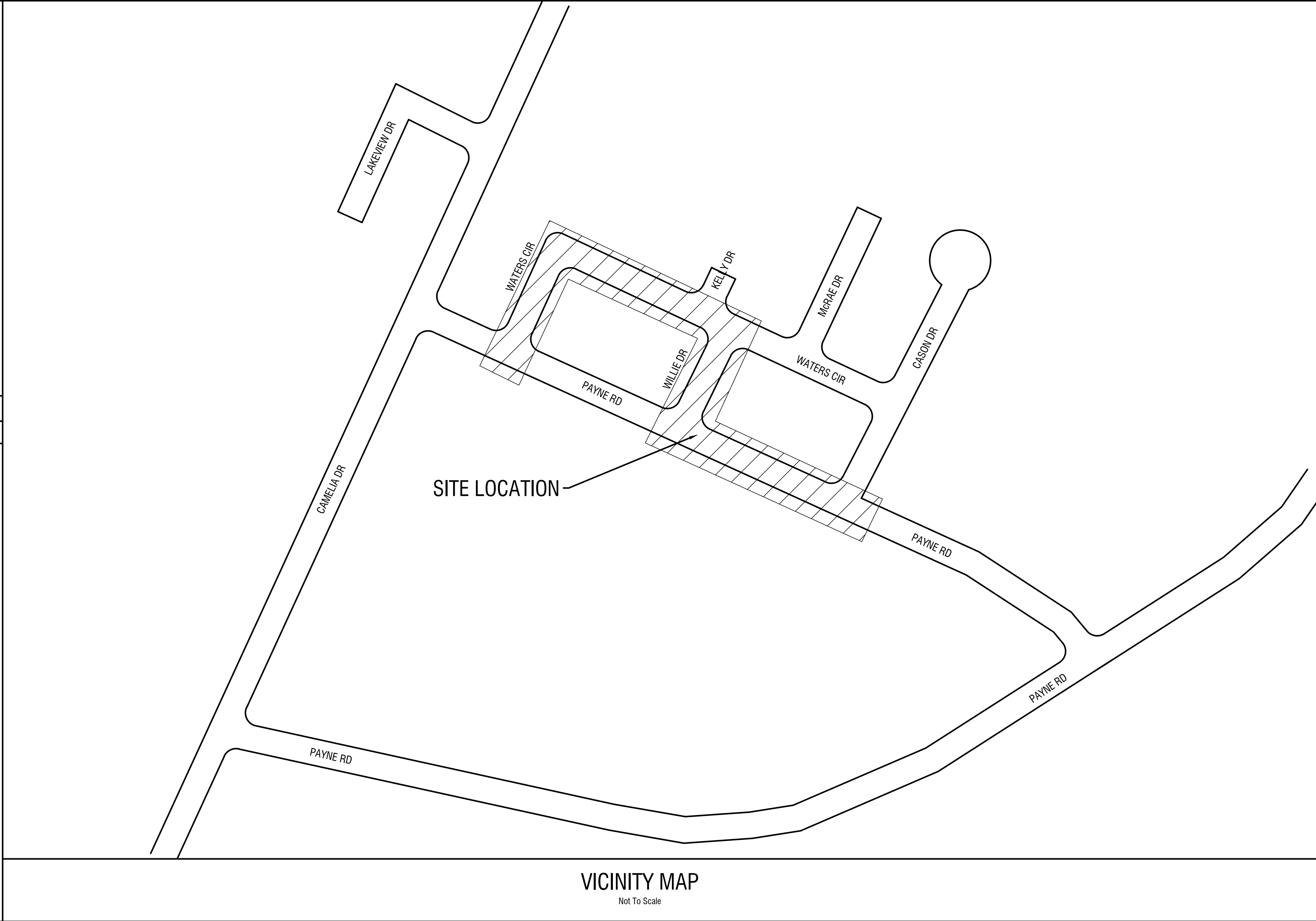
1. OVERALL SITE PLAN
2. SITE PLAN
3. EROSION CONTROL PLAN
4. DETAILS
8. EROSION CONTROL DETAIL
8. GDOT DETAIL

SHEET

- SHEET C100
SHEET C101 - C103
SHEET C201 - C203
SHEET C300
SHEET C301
SHEET C302

DRAWING LEGEND

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



GEORGIA811®

Utilities Protection Center, Inc.

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

Owner:
CITY OF PEMBROKE
160 N MAIN ST
PEMBROKE, GA 31321
(912) 653-4413
streets@pembrokega.net

GPS COORDINATES OF CO:
E: 829264.74
N: 782335.62

DATUM: NAVD88

24 Hour Contact:
KEITH COOK
160 N MAIN ST
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(912) 653-4413
streets@pembrokega.net

DESIGN PROFESSIONAL:

DATE: 4/20/2023

19
M.E. SACK
ENGINEERING
80

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

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

GENERAL NOTES

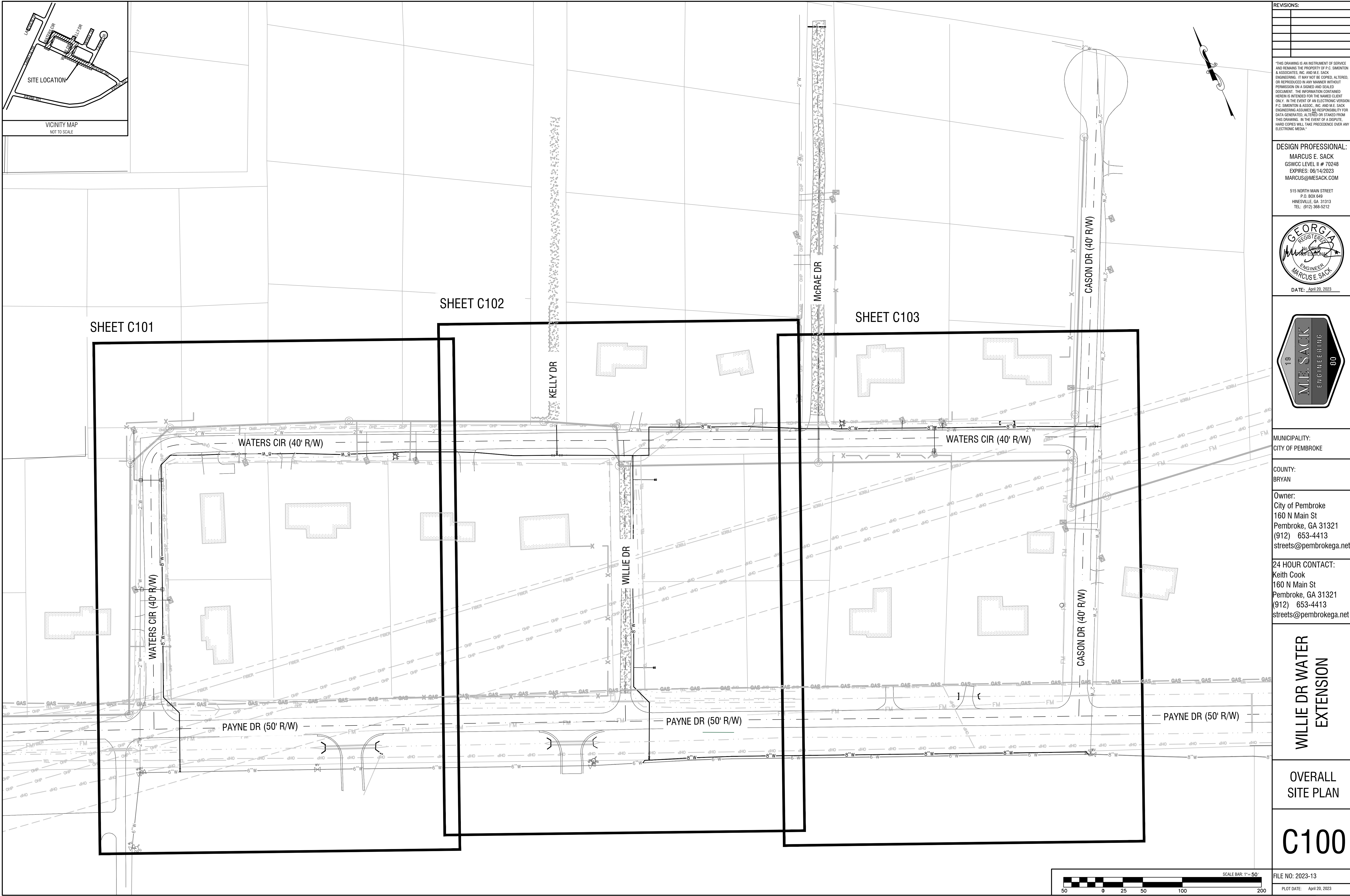
1. ALL EXISTING UTILITIES SHOWN ARE LOCATED FROM BEST AVAILABLE INFORMATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ACTUAL FIELD LOCATION AND PROTECTION OF EXISTING UTILITIES. OVERHEAD LINES ARE NOT SHOWN FOR CLARITY.
2. ALL DISTURBED AREAS TO BE REVEGETATED IMMEDIATELY AFTER CONSTRUCTION, IN ACCORDANCE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

REVISION NO.	DATE	DESCRIPTION

JOB NO. 2023-13PRJ

COVER SHEET

PLOT DATE: April 20, 2023



REVISIONS:

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DATE: April 20, 2023

19 M.E. SACK ENGINEERING 80

MUNICIPALITY:
CITY OF PEMBROKE

COUNTY:
BRYAN

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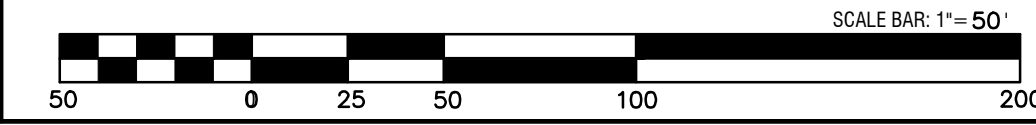
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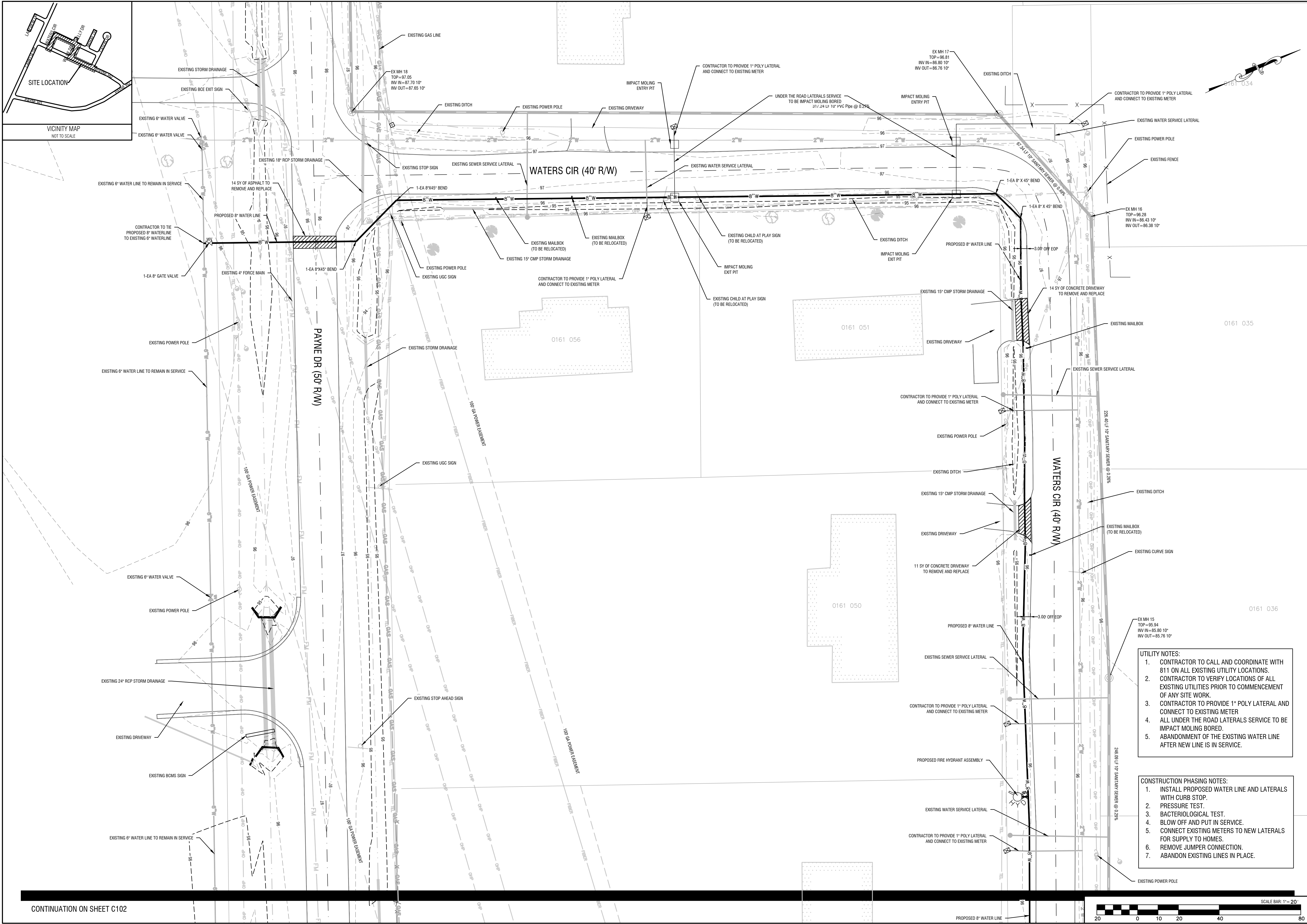
WILLIE DR WATER
EXTENSION

OVERALL
SITE PLAN

C100

FILE NO: 2023-13
PLOT DATE: April 20, 2023





CONTINUATION ON SHEET C102

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GEORGIA REGISTERED PROFESSIONAL ENGINEER

MARCUS E. SACK

DATE: April 20, 2023

M.E. SACK ENGINEERING

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WILLIE DR WATER EXTENSION

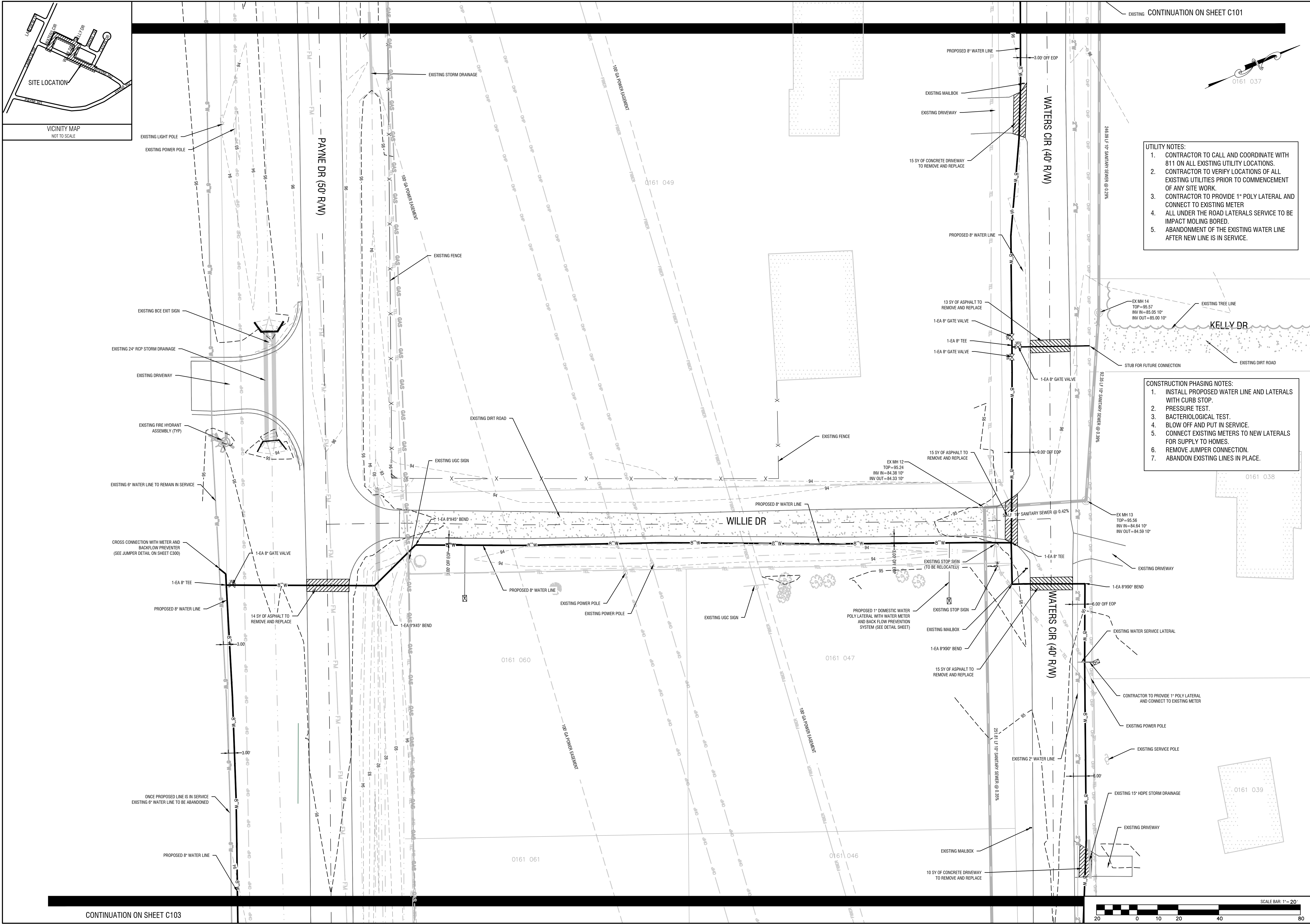
SITE PLAN 1

C101

FILE NO: 2023-13

PLOT DATE: April 20, 2023

- UTILITY NOTES:
1. CONTRACTOR TO CALL AND COORDINATE WITH 811 ON ALL EXISTING UTILITY LOCATIONS.
 2. CONTRACTOR TO VERIFY LOCATIONS OF ALL EXISTING UTILITIES PRIOR TO COMMENCEMENT OF ANY SITE WORK.
 3. CONTRACTOR TO PROVIDE 1" POLY LATERAL AND CONNECT TO EXISTING METER
 4. ALL UNDER THE ROAD LATERALS SERVICE TO BE IMPACT MOLING BORED.
 5. ABANDONMENT OF THE EXISTING WATER LINE AFTER NEW LINE IS IN SERVICE.
- CONSTRUCTION PHASING NOTES:
1. INSTALL PROPOSED WATER LINE AND LATERALS WITH CURB STOP.
 2. PRESSURE TEST.
 3. BACTERIOLOGICAL TEST.
 4. BLOW OFF AND PUT IN SERVICE.
 5. CONNECT EXISTING METERS TO NEW LATERALS FOR SUPPLY TO HOMES.
 6. REMOVE JUMPER CONNECTION.
 7. ABANDON EXISTING LINES IN PLACE.



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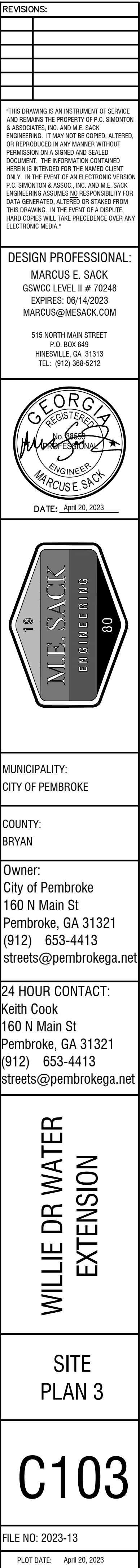
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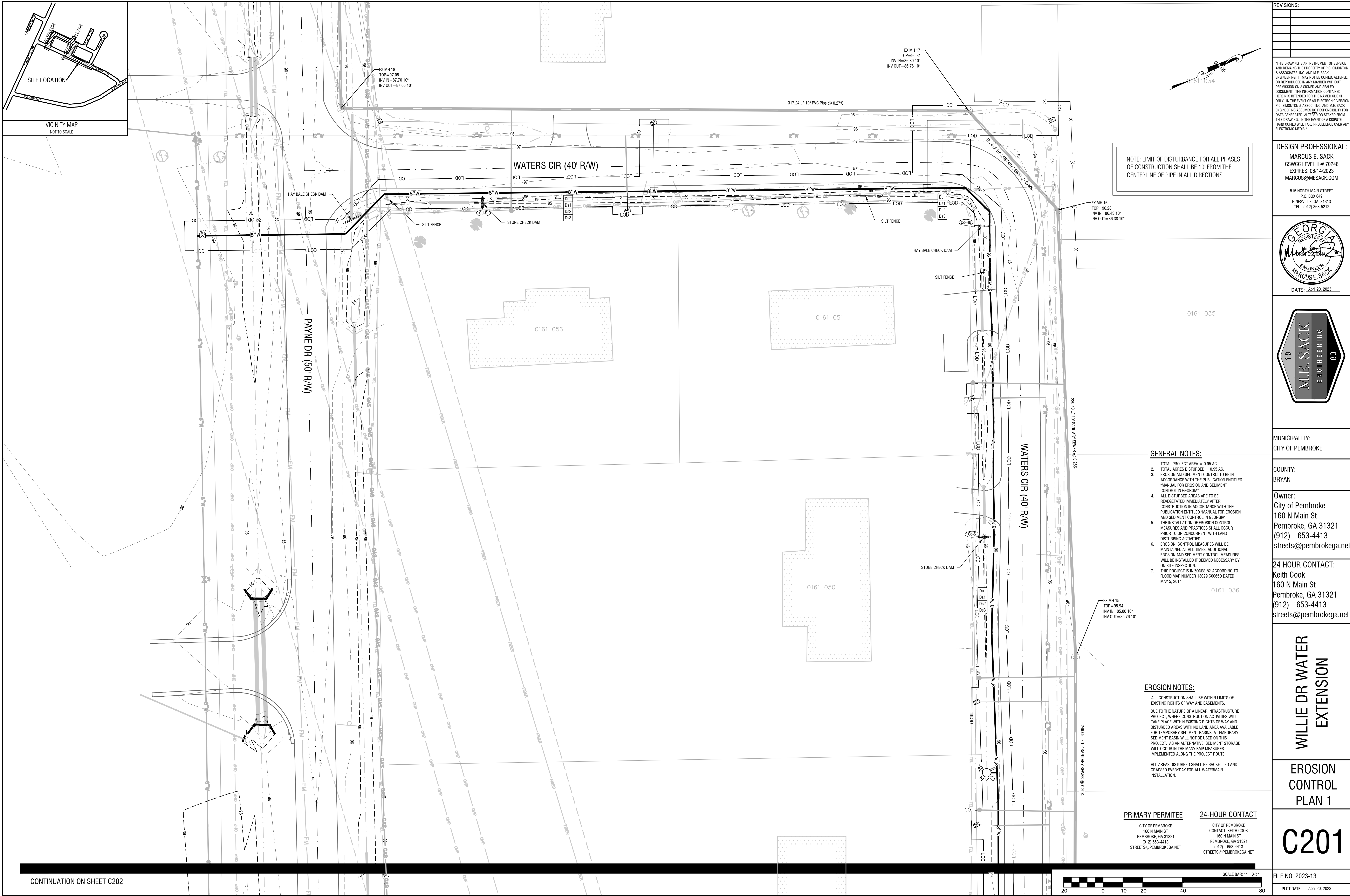
WILLIE DR WATER
EXTENSION

SITE
PLAN 2

C102

FILE NO: 2023-13
PLOT DATE: April 20, 2023





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DATE: April 20, 2023

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WILLIE DR WATER
EXTENSION

EROSION
CONTROL
PLAN 1

C201

FILE NO: 2023-13
PLOT DATE: April 20, 2023

NOTE: LIMIT OF DISTURBANCE FOR ALL PHASES OF CONSTRUCTION SHALL BE 10' FROM THE CENTERLINE OF PIPE IN ALL DIRECTIONS

GENERAL NOTES:

1. TOTAL PROJECT AREA = 0.95 AC.
2. TOTAL ACRES DISTURBED = 0.95 AC.
3. EROSION AND SEDIMENT CONTROL TO BE IN ACCORDANCE WITH THE PUBLICATION ENTITLED "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA".
4. ALL DISTURBED AREAS ARE TO BE REVEGETATED IMMEDIATELY AFTER CONSTRUCTION IN ACCORDANCE WITH THE PUBLICATION ENTITLED "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA".
5. THE INSTALLATION OF EROSION CONTROL MEASURES AND PRACTICES SHALL OCCUR PRIOR TO OR CONCURRENT WITH LAND DISTURBING ACTIVITIES.
6. EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES WILL BE INSTALLED IF DEEMED NECESSARY BY ON SITE INSPECTION.
7. THIS PROJECT IS IN ZONES "X" ACCORDING TO FLOOD MAP NUMBER 13029 C006SD DATED MAY 5, 2014.

EROSION NOTES:

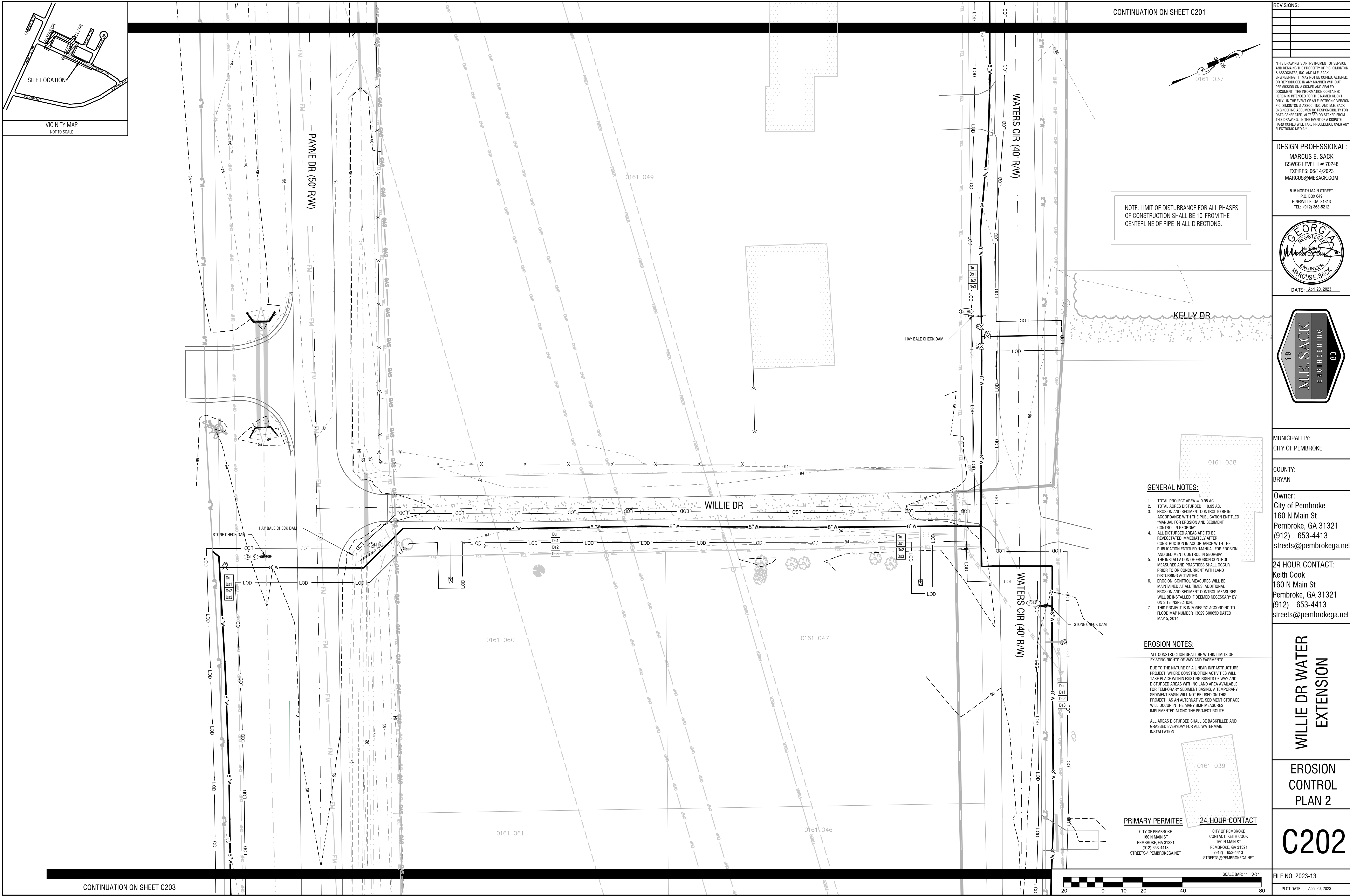
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ALL AREAS DISTURBED SHALL BE BACKFILLED AND GRASSED EVERYDAY FOR ALL WATERMAIN INSTALLATION.

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CONTINUATION ON SHEET C201

0161 037

NOTE: LIMIT OF DISTURBANCE FOR ALL PHASES OF CONSTRUCTION SHALL BE 10' FROM THE CENTERLINE OF PIPE IN ALL DIRECTIONS.

KELLY DR

WILLIE DR

WATERS CIR (40' RW)

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DATE: April 20, 2023

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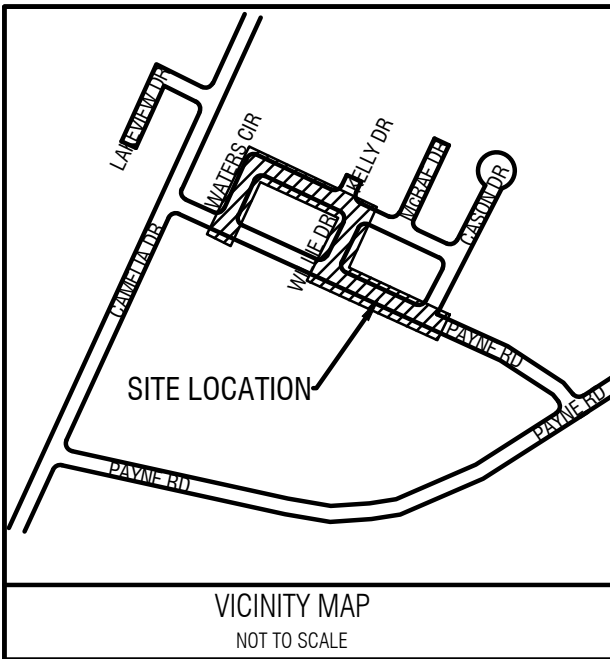
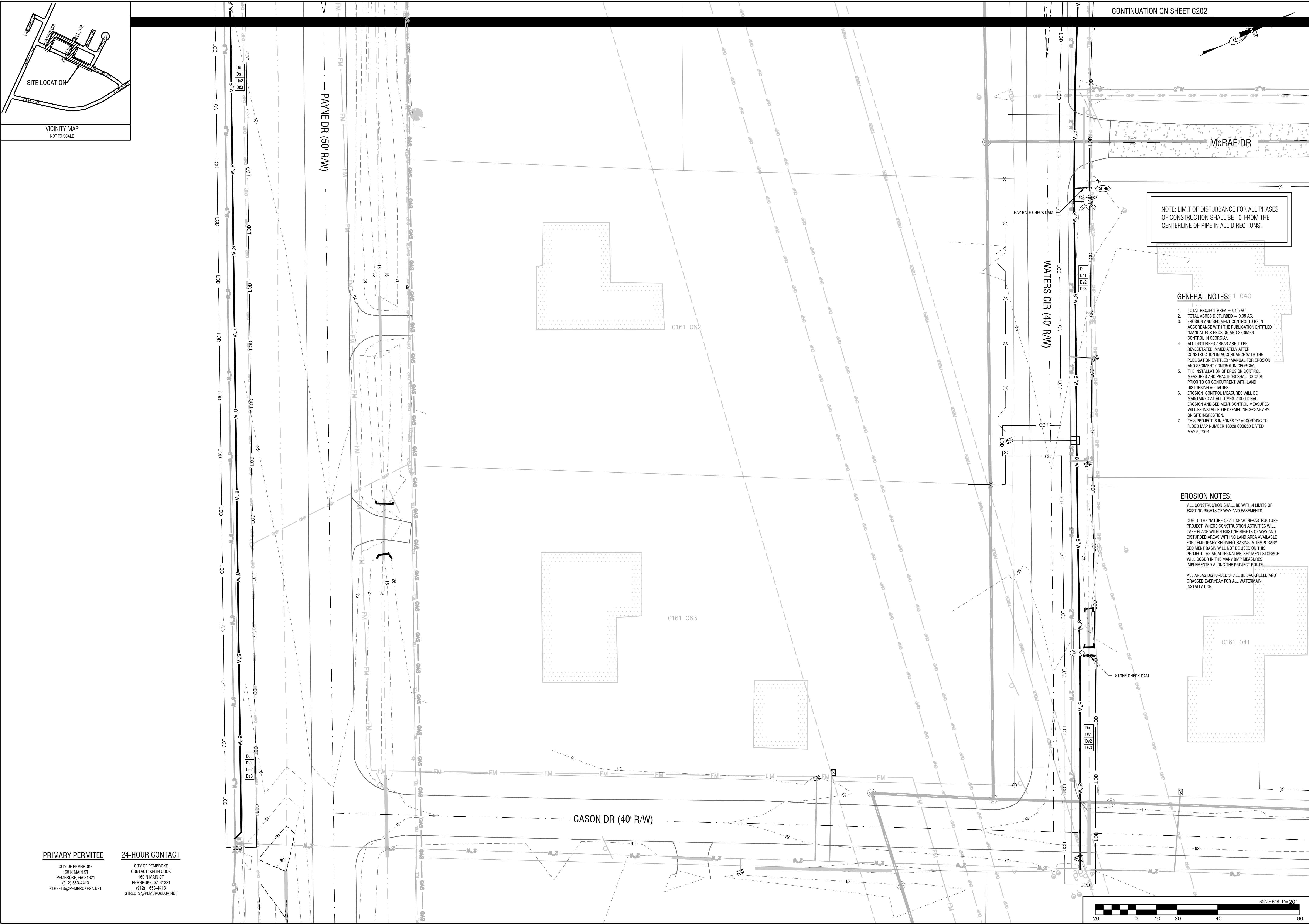
WILLIE DR WATER
EXTENSION

EROSION
CONTROL
PLAN 2

C202

FILE NO: 2023-13

PLOT DATE: April 20, 2023



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CONTINUATION ON SHEET C202

NOTE: LIMIT OF DISTURBANCE FOR ALL PHASES OF CONSTRUCTION SHALL BE 10' FROM THE CENTERLINE OF PIPE IN ALL DIRECTIONS.

GENERAL NOTES: 040

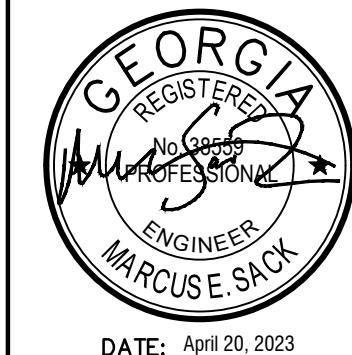
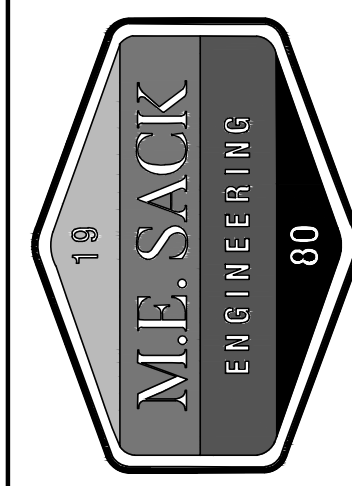
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7. THIS PROJECT IS IN ZONES "X" ACCORDING TO FLOOD MAP NUMBER 13029 C00650 DATED MAY 5, 2014.

EROSION NOTES:

ALL CONSTRUCTION SHALL BE WITHIN LIMITS OF EXISTING RIGHTS OF WAY AND EASEMENTS.

DUE TO THE NATURE OF A LINEAR INFRASTRUCTURE PROJECT, WHERE CONSTRUCTION ACTIVITIES WILL TAKE PLACE WITHIN EXISTING RIGHTS OF WAY AND DISTURBED AREAS WITH NO LAND AREA AVAILABLE FOR TEMPORARY SEDIMENT BASINS, A TEMPORARY SEDIMENT BASIN WILL NOT BE USED ON THIS PROJECT. AS AN ALTERNATIVE, SEDIMENT STORAGE WILL OCCUR IN THE MANY BMP MEASURES IMPLEMENTED ALONG THE PROJECT ROUTE.

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WILLIE DR WATER EXTENSION	
EROSION CONTROL PLAN 3	
C203	
FILE NO: 2023-13 PLOT DATE: April 20, 2023	

PLOT DATE: April 20, 2023

GEORGIA UNIFORM CODING SYSTEM

FOR SOIL EROSION AND SEDIMENT CONTROL PRACTICES

GEORGIA SOIL AND WATER CONSERVATION COMMISSION

STRUCTURAL PRACTICES

CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Cd	CHECKDAM			A small temporary barrier or dam constructed across a swale, drainage ditch or area of concentrated flow.
Ch	CHANNEL STABILIZATION			Improving, constructing or stabilizing an open channel, existing stream, or ditch.
Co	CONSTRUCTION EXIT			A crushed stone pad located at the construction site exit to provide a place for removing mud from tires thereby protecting public streets.
Cr	CONSTRUCTION ROAD STABILIZATION			A travelway constructed as part of a construction plan including access roads, subdivision roads, parking areas and other on-site vehicle transportation routes.
Dc	STREAM DIVERSION CHANNEL			A temporary channel constructed to convey flow around a construction site while a permanent structure is being constructed.
Di	DIVERSION			An earth channel or dike located above, below or across a slope to divert runoff. This may be a temporary or permanent structure.
Dn1	TEMPORARY DOWNDRAIN STRUCTURE			A flexible conduit of heavy-duty fabric or other material designed to safely conduct surface runoff down a slope. This is temporary and inexpensive.
Dn2	PERMANENT DOWNDRAIN STRUCTURE			A paved chute, pipe, sectional conduit or similar material designed to safely conduct surface runoff down a slope.
Fr	FILTER BNC			A temporary stone barrier constructed at storm drain inlets and pond outlets.
Ga	GABION			Rock filter baskets which are hand-placed into position forming soil stabilizing structures.
Gr	GRADE STABILIZATION STRUCTURE			Permanent structures installed to protect channels or waterways where otherwise the slope would be sufficient for the running water to form gullies.
Lv	LEVEL SPREADER			A structure to convert concentrated flow of water into less erosive sheet flow. This should be constructed only on undisturbed soils.
Rd	ROCK FILTER DAM			A permanent or temporary stone filter dam installed across small streams or drainageways.
Re	RETAINING WALL			A wall installed to stabilize cut and fill slopes where maximum permissible slopes are not obtainable. Each situation will require special design.
Rt	RETRO FITTING			A device or structure placed in front of a permanent stormwater detention pond outlet structure to serve as a temporary sediment filter.
Sd1	SEDIMENT BARRIER			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.
Sd2	INLET SEDIMENT TRAP			An impounding area created by excavating around a storm drain drop inlet. The excavated area will be filled and stabilized on completion of construction activities.
Sd3	TEMPORARY SEDIMENT BASIN			A basin created by excavation or a dam across a waterway. The surface water runoff is temporarily stored allowing the bulk of the sediment to drop out.
Sd4	TEMPORARY SEDIMENT TRAP			A small temporary pond that drains a disturbed area so that sediment can settle out. The principle feature distinguishing a temporary sediment trap from a temporary sediment basin is the lack of a pipe or riser.
Sk	FLOATING SURFACE SKIMMER			A buoyant device that releases/drains water from the surface of sediment ponds, traps, or basins at a controlled rate of flow.
Spb	SEEP BERM			A linear control device constructed as a diversion perpendicular to the direction of runoff to enhance dissipation and infiltration, while creating multiple sedimentation chambers with the employment of intermediate dikes.

GSWCC (Amended - 2013)

STRUCTURAL PRACTICES

CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Sr	TEMPORARY STREAM CROSSING			A temporary bridge or culvert-type structure protecting a stream or watercourse from damage by crossing construction equipment.
St	STORMDRAIN OUTLET PROTECTION			A paved or short section of riprap channel at the outlet of a storm drain system preventing erosion from the concentrated runoff.
Su	SURFACE ROUGHENING			A rough soil surface with horizontal depressions on a contour or slopes left in a roughened condition after grading.
Tc	TURBIDITY CURTAIN			A floating or staked barrier installed within the water (it may also be referred to as a floating boom, silt barrier, or silt curtain).
Tp	TOPSOILING			The practice of stripping off the more fertile soil, storing it, then spreading it over the disturbed area after completion of construction activities.
Tr	TREE PROTECTION			To protect desirable trees from injury during construction activity.
Wt	VEGETATED WATERWAY OR STORMWATER CONVEYANCE CHANNEL			Paved or vegetative water outlets for diversions, terraces, berms, dikes or similar structures.

VEGETATIVE PRACTICES

CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Bf	BUFFER ZONE			Strip of undisturbed original vegetation, enhanced or restored existing vegetation or the reestablishment of vegetation surrounding an area of disturbance or bordering streams.
Cs	COASTAL DUNE STABILIZATION (WITH VEGETATION)			Planting vegetation on dunes that are denuded artificially constructed, or re-nourished.
Ds1	DISTURBED AREA STABILIZATION (WITH MULCHING ONLY)			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)			Establishing a temporary vegetative cover with fast growing seedlings on disturbed areas.
Ds3	DISTURBED AREA STABILIZATION (WITH PERM SEEDING)			Establishing a permanent vegetative cover such as trees, shrubs, vines, grasses, or legumes on disturbed areas.
Ds4	DISTURBED AREA STABILIZATION (SOODING)			A permanent vegetative cover using sods on highly erodible or critically eroded lands.
Du	DUST CONTROL ON DISTURBED AREAS			Controlling surface and air movement of dust on construction site, roadways and similar sites.
Fl-Co	FLOCCULANTS AND COAGULANTS			Substance formulated to assist in the solids/liquid separation of suspended particles in solution.
Sb	STREAMBANK STABILIZATION (USING PERM VEGETATION)			The use of readily available native plant materials to maintain and enhance streambanks, or to prevent, or restore and repair small streambank erosion problems.
Ss	SLOPE STABILIZATION			A protective covering used to prevent erosion and establish temporary or permanent vegetation on steep slopes, shore lines, or channels.
Tac	TACKERS AND BINDERS			Substance used to anchor straw or hay mulch by causing the organic material to bind together.

Ds1 DISTURBED AREA STABILIZATION (W/MULCHING ONLY)

SPECIFICATIONS

A. For temporary protection of critical areas without seeding. This standard applies to grades or cleared areas which may be subjected to erosion for 6 months or less, where seeding may not have a suitable growing season to produce an erosion retarding cover, but which can be stabilized with a mulch cover.

Site Preparation

1. Grade, as needed and feasible, 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. As needed and feasible, loosen compact soil to a minimum depth of 3 inches.

Mulching Materials

1. Dry straw or hay - spread at a rate of 2 1/2 tons per acre.
2. Wood waste, chips, sawdust or bark - spread 2 to 3 inches deep (about 6 to 9 tons per acre).
3. Erosion control matting or netting, such as excelsior, jute, textile and plastic matting and netting - applied in accordance with manufacturers recommendations.
4. Polyethylene film - secured over banks or stockpiled soil material for temporary protection.

Applying and Anchoring Mulch

1. Apply straw or hay mulch uniformly by hand or mechanically. Anchor as appropriate and feasible. It may be pressed into the soil with a disk harrow with the disk set straight or with a special "packer disk."

The disk may be smooth or serrated and should be 20 inches or more in diameter and 9 to 12 inches apart. The edges of the disk should be dull enough not to cut the mulch but press it into the soil leaving much of it in an erect position.

Straw hay mulch spread with special blower-type equipment may be anchored with emulsified asphalt (Grade AC-5 or SS-1). The asphalt emulsion must be sprayed onto the mulch as it is ejected from the machine.

Use 100 gallons of water per

2. Spread wood waste uniformly on slopes that are 3:1 and flatter.

No anchoring is needed.

3. Commercial matting and netting. Follow manufacturer's specification included with the material.

Mulching Materials

Use one of the materials given below and apply at thickness indicated.

Material	Depth
1. Grain straw or grass hay	8" to 10"
2. Pine needle	4" to 6"
3. Wood waste	4" to 8"
(sawdust, bark, chips)	
4. Shredded residues	4" to 8"
(crops, leaves, etc.)	

5. Completely cover area with black polyethylene film and hold in place by placing soil on the outer edge.

When using organic mulches, apply 20-30 pounds of nitrogen in addition to the normal amount needed for plant growth to offset the tie up of N by decomposition of mulch

Du DUST CONTROL ON DISTURBED AREAS

PURPOSE

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

Temporary Methods

1. Irrigation. This is generally done as an emergency treatment. Site is sprinkled with water until the surface is wet.
2. Mulching - See Ds1-Disturbed Area Stabilization (with Mulching only)
3. Vegetative Cover - See Ds2-Disturbed Area Stabilization (with Temporary Seeding)

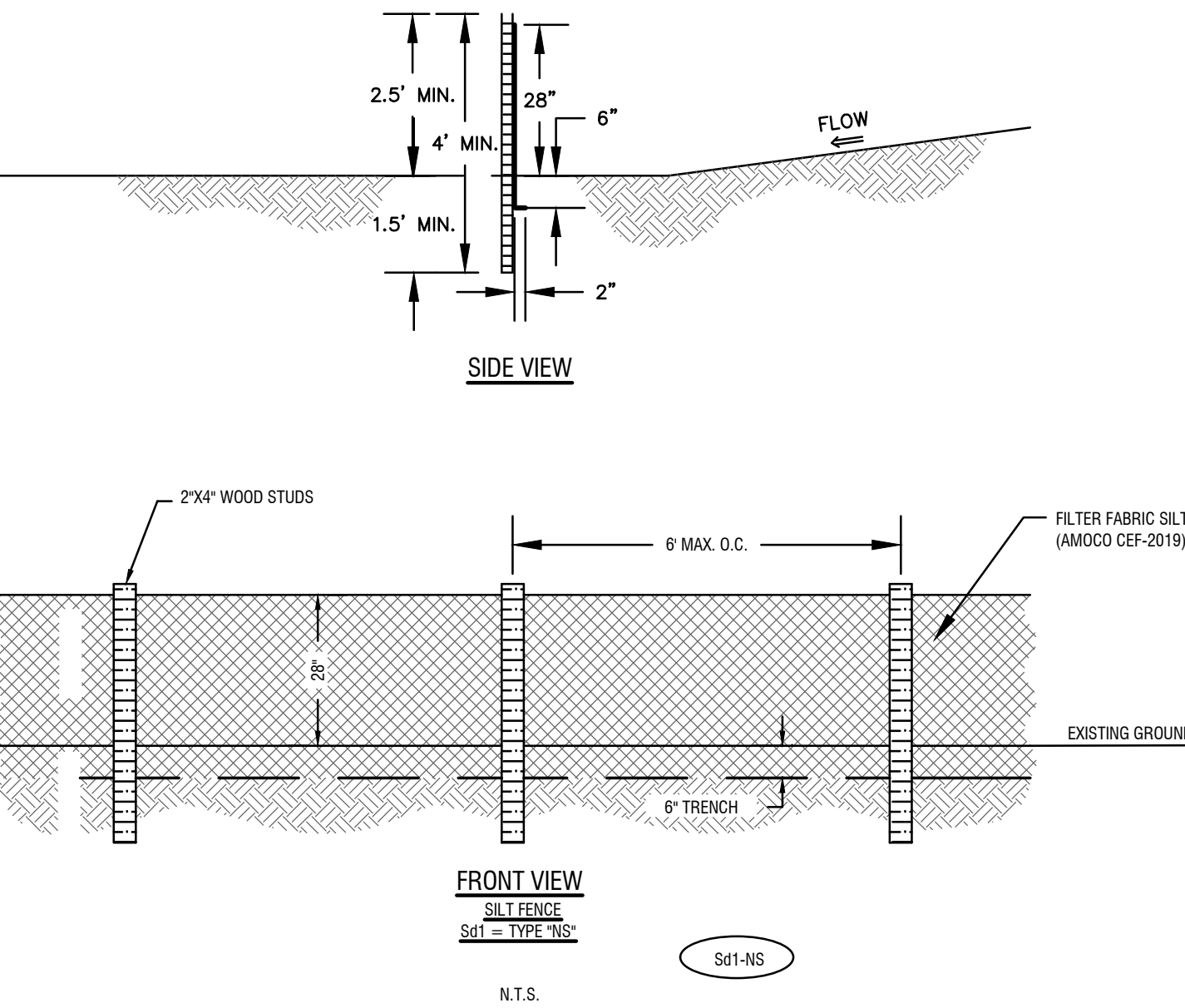
Permanent Methods

1. Permanent Vegetation - See Ds3-Disturbed Area Stabilization (with Permanent Vegetation)

FERTILIZER REQUIREMENTS

TYPE OF SPECIES	YEAR	ANALYSIS OR EQUIVALENT	RATE	N TOP DRESSING RATE	LIME APPLICATION
Cool season grasses	First Second Maintenance	6-12-12 6-12-12 10-10-10	1500 lbs./ac. 1000 lbs./ac. 400 lbs./ac.	50-100 lbs./ac. 1/ 2/ 30	2000 lbs./ac.
Cool season grasses legumes	First Second Maintenance	6-12-12 0-10-10 0-10-10	1500 lbs./ac. 1000 lbs./ac. 400 lbs./ac.	0-50 lbs./ac. 1/ -	2000 lbs./ac.
Ground covers	First Second Maintenance	10-10-10 10-10-10 10-10-10	1500 lbs./ac. 1000 lbs./ac. 400 lbs./ac.	- - -	-
Pine seedlings	First	20-10-5	one 21-gram pallet per seedling placed in the closing hole	-	-
Shrub lespedeza	First Maintenance	0-10-10 0-10-10	700 lbs./ac. 700 lbs./ac. 4/	-	-
Temporary cover crops seeded clone	First	10-10-10	500 lbs./ac.	30 lbs./ac. 5/	-
Warm season grasses	First Second Maintenance	6-12-12 6-12-12 10-10-10	1500 lbs./ac. 800 lbs./ac. 400 lbs./ac.	50-100 lbs./ac. 2/ 6/ 50-100 lbs./ac. 2/ 30 lbs./ac.	2000 lbs./ac.
Warm season grasses and legumes	First Second Maintenance	6-12-12 0-10-10 0-10-10	1500 lbs./ac. 1000 lbs./ac. 400 lbs./ac.	50 lbs./ac. 6/	2000 lbs./ac.

- 1/ Apply in spring following seeding.
- 2/ Apply in split applications when high rates are used.
- 3/ Apply in 3 split applications.
- 4/ Apply when plants are grouted.
- 5/ Apply to grass species only.
- 6/ Apply when plants grow to height of 2 to 4 inches.



Ds2 SPECIES AND PLANTING SCHEDULE

SPECIES	BROADCAST RATES 1" PLS 2" PER ACRE 1000 SF	PLANTING DATES BY RESOURCE												REMARKS	
		RESOURCE AREA 3"	AREAS*												
			J	F	M	A	M	J	J	A	S	O	N		D
RYEGRASS, ANNUAL ALONE	40 lbs 0.9 lbs	M-L P C												227,000 SEED PER POUND. DENSE COVER. VERY COMPETITIVE AND IS NOT USED IN MIXTURES.	

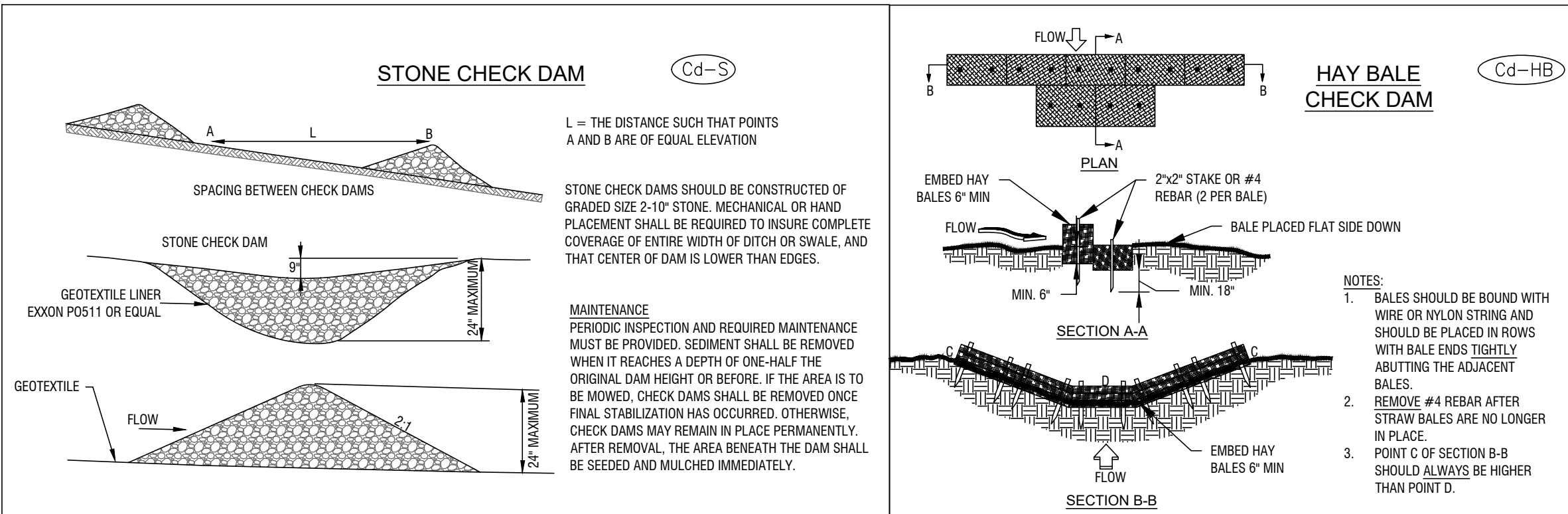
Ds3 SPECIES AND PLANTING SCHEDULE

SPECIES	BROADCAST RATES 1" PLS 2" PER ACRE	PLS 2" PER 1000 SF	PLANTING DATES BY RESOURCE AREAS*												REMARKS
			RESOURCE AREA 3"	J	F	M	A	M	J	J	A	S	O	N	
BERMUDA, COMMON HULLED SEED ALONE WITH OTHER PERENNIALS	10 lbs 6 lbs	0.2 lbs 0.1 lbs	P C												1,787,000 SEED PER POUND. QUICK COVER. LOW GROWING AND SOD FORMING. FULL SUN. GOOD FOR ATHLETIC FIELDS.
BERMUDA, COMMON UNHULLED SEED ALONE WITH OTHER PERENNIALS			P C												PLANT WITH WINTER ANNUALS. PLANT WITH TALL FESCUE.
BERMUDA, SPRINGS COASTAL, COMMON, MIDLAND, OR TIFT 44 COASTAL, COMMON, TIFT 44 TIFT 78	40 CU FT 0.9 CU FT OR SOD PLUS 3 X 3"		M-L P C C												A CUBIC FT. CONTAINS APPROXIMATELY 650 SPRIGS. A BUSHEL CONTAINS 1.25 C.F. OR SAME AS ABOVE. SOUTHERN COASTAL PLAIN ONLY

MULCHING RATES FOR PERMANENT COVER

TYPE OF MULCH	RATE PER ACRE	NOTES
Dry straw	2 Tons	Free of weed seeds.
Dry hay	2.5 Tons	Free of weed seeds.
Wood Cellulose	500 lbs. 1000 lbs.	Slope less than 3/4:1 Slope greater than 3/4:1
Wood Pulp Fiber	500 lbs. 1000 lbs.	Slope less than 3/4:1 Slope greater than 3/4:1
Sarissa Lespedeza Hay	3 Tons	Containing mature seeds.
Pine Straw or Bark	3 inches thick for bedding	Not for seeding.
Blumousus treated raving	See DOT specs.	Use on slopes, in ditches, or dry waterways.

1. Mulching is not required for temporary grassing.
2. Mulch shall be applied to cover 75% of the soil surface.
3. Sod does not require mulch.



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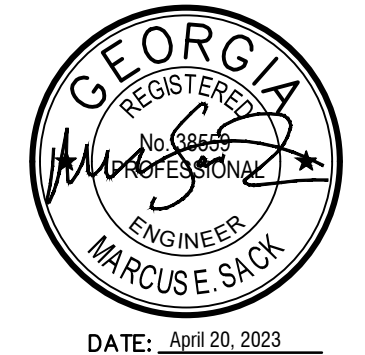
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WILLIE DR WATER
EXTENSION

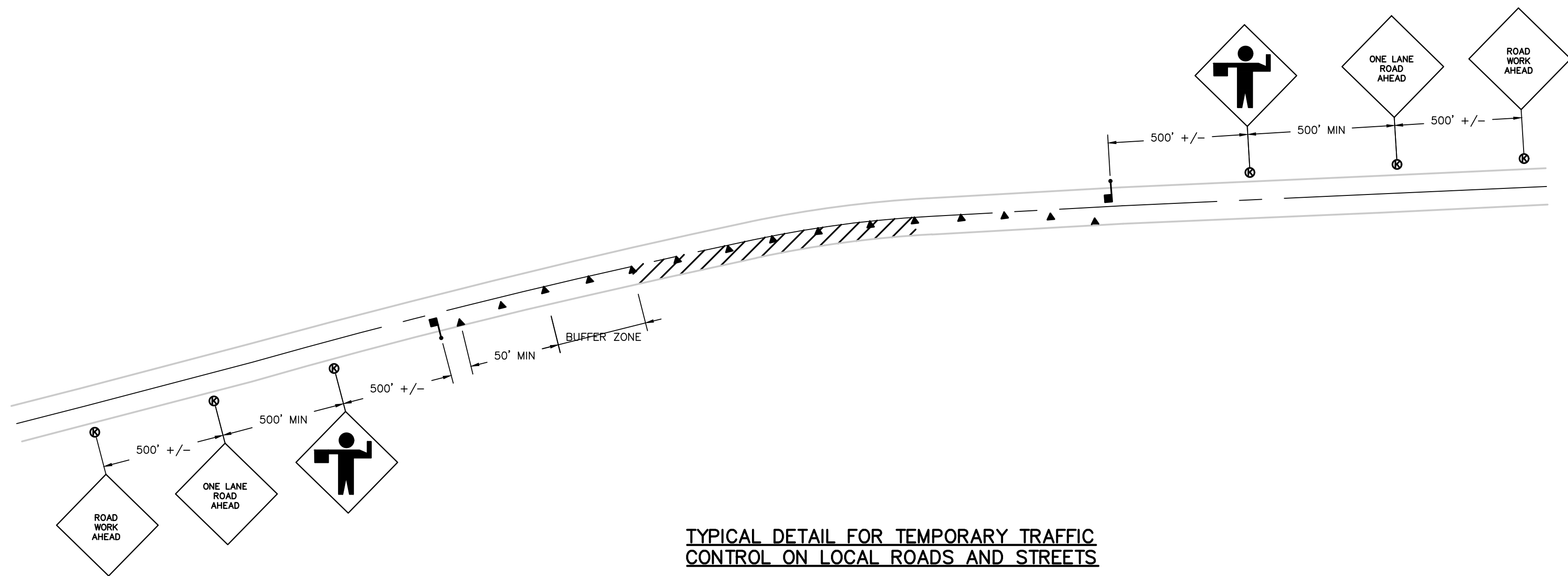
EROSION
CONTROL
DETAILS

C301

FILE NO: 2023-13

PLOT DATE: April 20, 2023

NOTE: ALL TRAFFIC CONTROL AND TEMPORARY LANE CLOSURES OF STATE ROUTES MUST BE CONDUCTED IN ACCORDANCE WITH GDOT STANDARD 9100 "TRAFFIC CONTROL GENERAL NOTES, STANDARDS LEGEND, MISCELLANEOUS DETAILS"CURRENT DETAILS AND STANDARDS CAN BE FOUND ON THE GEORGIA DEPARTMENT OF TRANSPORTATION WEBSITE.



- NOTES:
1. BUFFER ZONE – 200' MINIMUM, 300' DESIRABLE ON TANGENTS CAN BE INCREASED BY THE ENGINEER FOR HORIZONTAL OR VERTICAL CURVES DUE TO SIGHT DISTANCE CONSIDERATION.
 2. ALL TRAFFIC CONTROL DEVICES SHALL BE MADE AND ERECTED IN ACCORDANCE WITH THE DETAILS ON THE PLANS; THE MUTCD; THE GEORGIA STANDARD SPECIFICATIONS, AND OR SPECIAL PROVISIONS.
 3. ALL PORTABLE SIGNS SHALL BE MOUNTED A MINIMUM OF 1 FOOT ABOVE THE LEVEL OF PAVEMENT EDGE FOR DIRECTIONAL TRAFFIC OF TWO LANES OR LESS AND A MINIMUM OF SEVEN FOOT FOR DIRECTIONAL TRAFFIC OF THREE LANES OR MORE, ALL PORTABLE SIGNS AND SIGN MOUNTING DEVICES UTILIZED IN THE WORK SHALL BE NCHRP 350 COMPLIANT, PORTABLE SIGNS MAY BE USED WHEN THE DURATION OF WORK IS LESS THAN 3 DAYS.
 4. WHEN THE CONSTRUCTION AREA HAS ENTRANCE/EXIT RAMPs OR INTERSECTIONS, WORK SHALL BE PERFORMED IN SUCH A MANNER TO PERMIT TRAFFIC TO OPERATE WITH THE LEAST AMOUNT OF INCONVENIENCE AS POSSIBLE.
 5. FOR NIGHT OPERATIONS, DRUMS SHALL HAVE, FOR THE LENGTH OF THE TAPER ONLY, A SIX INCH ORANGE REFLECTIZED TOP STRIP ON EACH DRUM. DURING DAYLIGHT HOURS CONES (28" MINIMUM) MAY BE USED IN ADVANCE AND THROUGHOUT WORK AREA.
 6. FLAGGERS SHALL BE PROVIDED AS NECESSARY TO PROHIBIT WRONG DIRECTION OF TRAFFIC THRU WORK AREAS.

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WILLIE DR WATER
EXTENSION

GDOT
DETAILS

C302

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