FOLKSTON SIDEWALK EXTENSION
FOR CITY OF FOLKSTON
CHARLTON COUNTY, GEORGIA
DATE: OCTOBER 7, 2022

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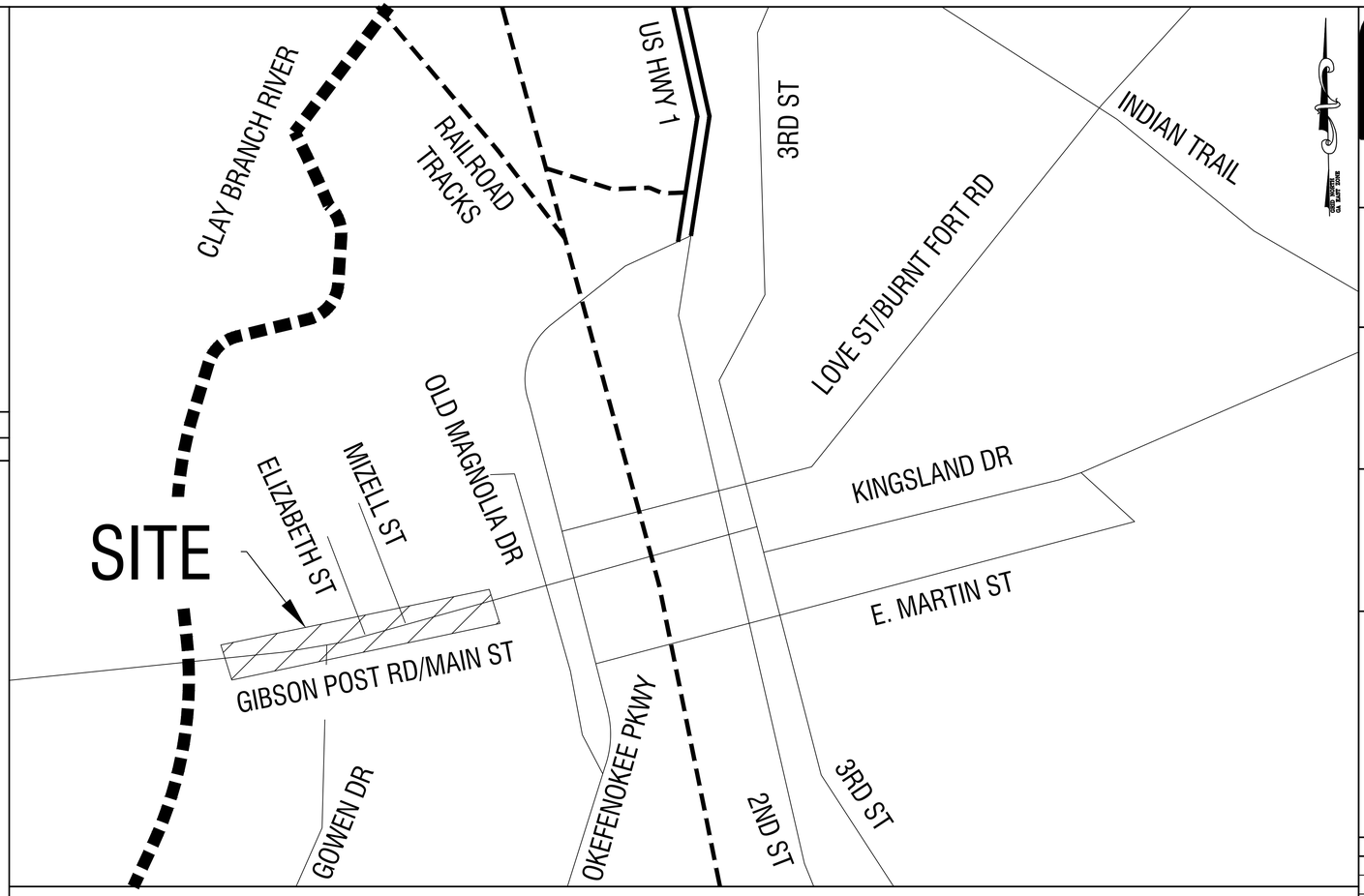
DRAWING LEGEND

DESCRIPTION	PROPOSED	EXISTING
SANITARY SEWER	SS	SS
UNDERGROUND WATER LINE	W	W
FORCE MAIN	FM	FM
STORM DRAINAGE PIPE		
UNDERGROUND TELEPHONE LINE	T	T
UNDERGROUND TELEPHONE CONDUIT	TC	TC
UNDERGROUND GAS LINE	12"G	12"G
DITCH CENTERLINE		
SPOT ELEVATION	X=90.00	X=90.00
TOP OF CURB ELEVATION	TC=90.00	TC=90.00
FIRE HYDRANT		
SEWER MANHOLE	S	S
WATER VALVE	W	W
TELEPHONE MANHOLE	T	T
LIGHT POLE		
SIGN		
WATER METER		
BENCHMARK		
GAS MARKER	G	G
GUY POLE		
IRON PIN FOUND		
IRON PIN SET		
TELEPHONE RISER		
POWER POLE		
HANDICAP SPACE		
CABLE BOX	TV	TV



VICINITY MAP
Not To Scale

GEORGIA 811
Utilities Protection Center, Inc.
Know what's **below.**
Call before you dig.

Owner:
CITY OF FOLKSTON
PENDER LLOYD
541 FIRST STREET
FOLKSTON, GA 31537
(912) 496-2563

GPS COORDINATES :
(START) N: 30.8290437, E: -82.0187374
(END) N: 30.8297022, E: -82.0140239

DATUM: NAVD83

24 HOUR CONTACT:
CITY OF FOLKSTON
PENDER LLOYD
541 FIRST STREET
FOLKSTON, GA 31537
(912) 496-2563

DESIGN PROFESSIONAL:

GEORGIA REGISTERED No. 33557 PROFESSIONAL ENGINEER MARCUS E. SACK

M.E. SACK ENGINEERING

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

GENERAL NOTES

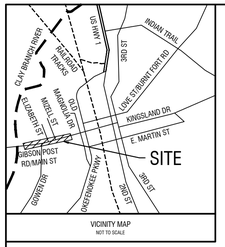
1. ALL EXISTING UTILITIES SHOWN ARE LOCATED FROM BEST AVAILABLE INFORMATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ACTUAL FIELD LOCATION AND PROTECTION OF EXISTING UTILITIES. OVERHEAD LINES ARE NOT SHOWN FOR CLARITY.
2. ALL DISTURBED AREAS TO BE REVEGETATED IMMEDIATELY AFTER CONSTRUCTION, IN ACCORDANCE 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.

JOB NO. 2022-20PRJ

REVISION NO.	DATE	DESCRIPTION

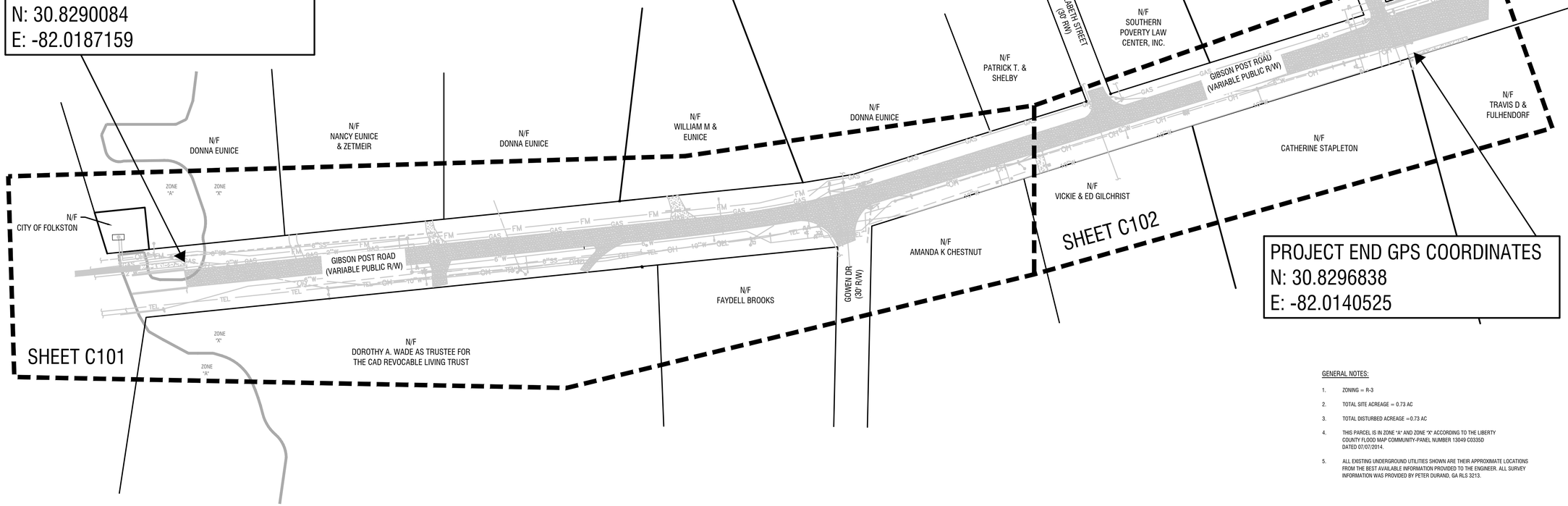
COVER SHEET

PLOT DATE: August 22, 2023



VICINITY MAP
NOT TO SCALE

PROJECT START GPS COORDINATES
N: 30.8290084
E: -82.0187159



PROJECT END GPS COORDINATES
N: 30.8296838
E: -82.0140525

GENERAL NOTES:

1. ZONING = R-3
2. TOTAL SITE ACREAGE = 0.73 AC
3. TOTAL DISTURBED ACREAGE =0.73 AC
4. THIS PARCEL IS IN ZONE "A" AND ZONE "X" ACCORDING TO THE LIBERTY COUNTY FLOOD MAP COMMUNITY-PANEL NUMBER 13049 C0335D DATED 07/07/2014.
5. ALL EXISTING UNDERGROUND UTILITIES SHOWN ARE THEIR APPROXIMATE LOCATIONS FROM THE BEST AVAILABLE INFORMATION PROVIDED TO THE ENGINEER. ALL SURVEY INFORMATION WAS PROVIDED BY PETER DURAND, GA RLS 3213.

SCALE BAR: 1"= 60 '
60 0 30 60 120 240

REVISIONS:

DESIGN PROFESSIONAL:
MARCUS E. SACK
GSWCC LEVEL II # 70248
EXPIRES: 06/14/2023
MARCUS@MESACK.COM

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SUITE 250
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TEL: (912) 295-2395

GEORGIA REGISTERED No. 35501 PROFESSIONAL ENGINEER MARCUS E. SACK

DATE: 8/22/2023

M.E. SACK ENGINEERING 19 80

MUNICIPALITY:
CITY OF FOLKSTON

COUNTY:
CHARLTON

Owner:
THE CITY OF FOLKSTON
PENDER LLOYD
541 FIRST STREET
FOLKSTON, GA 31537
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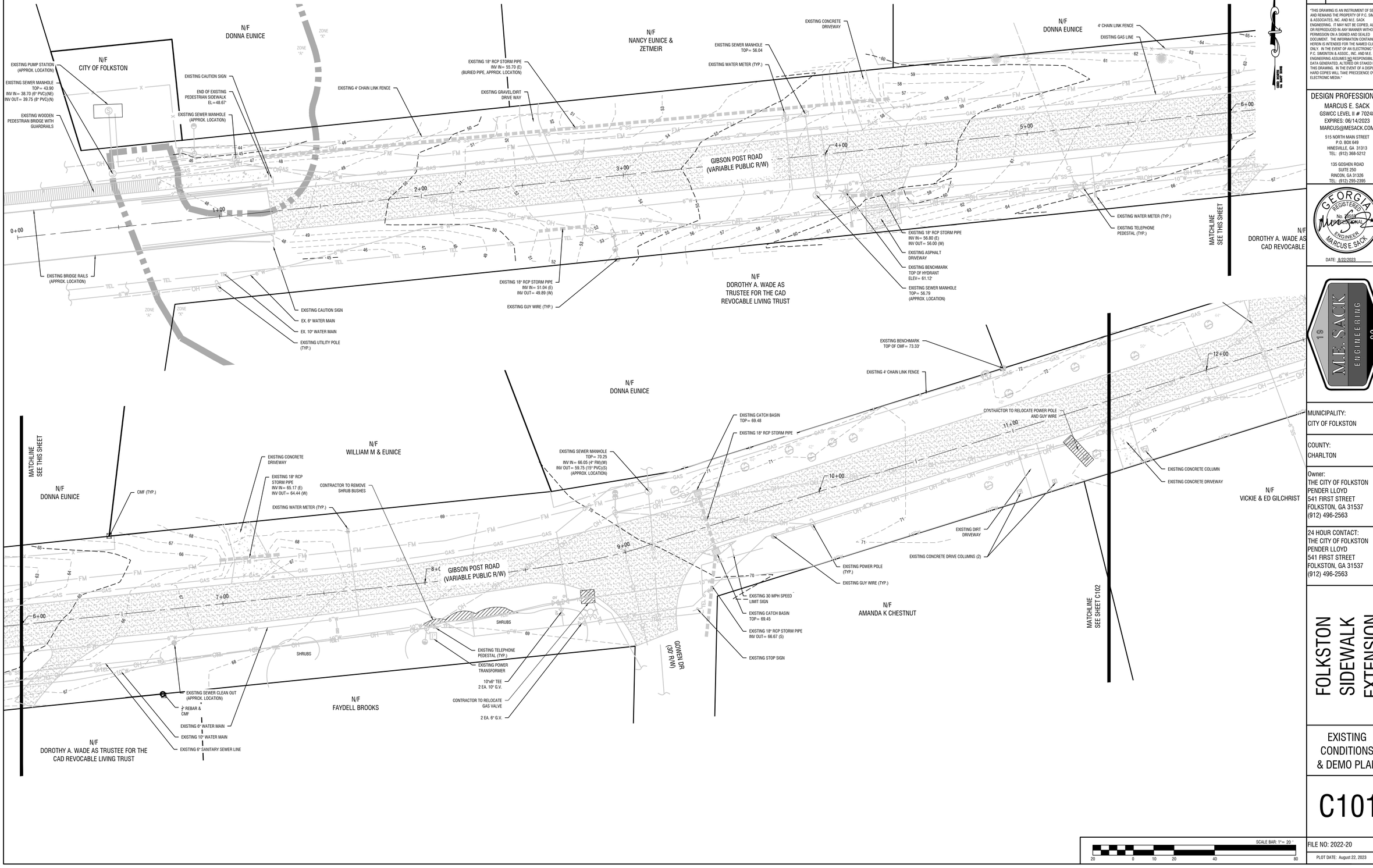
FOLKSTON SIDEWALK EXTENSION

OVERALL EXISTING CONDITIONS

C100

FILE NO: 2022-20

PLOT DATE: August 22, 2023



SCALE BAR: 1"= 20 '
20 0 10 20 40 80

REVISIONS:

DESIGN PROFESSIONAL:
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GEORGIA REGISTERED No. 33504 PROFESSIONAL ENGINEER MARCUS E. SACK

DATE: 8/22/2023

M.E. SACK ENGINEERING 80

MUNICIPALITY:
CITY OF FOLKSTON

COUNTY:
CHARLTON

Owner:
THE CITY OF FOLKSTON
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(912) 496-2563

24 HOUR CONTACT:
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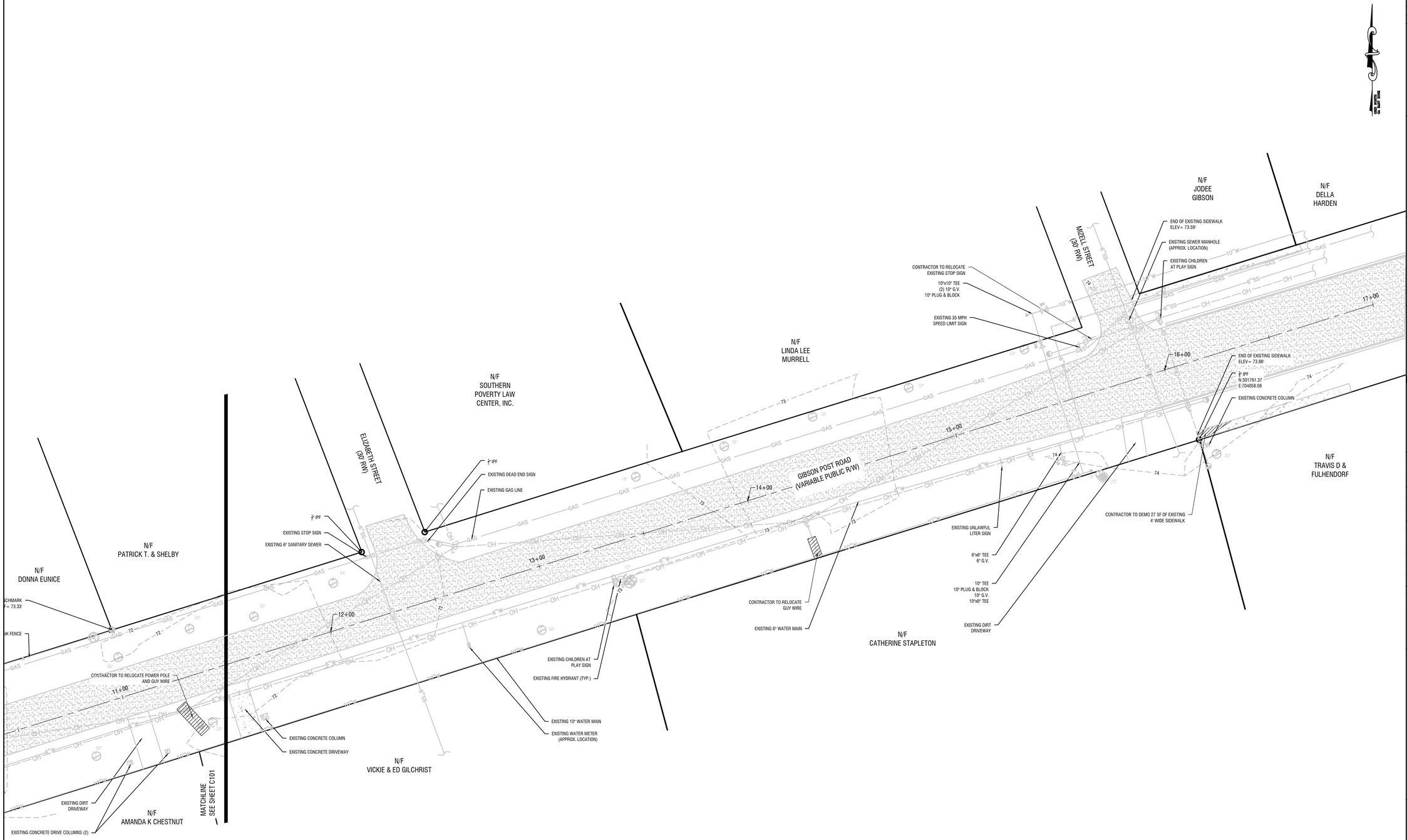
FOLKSTON SIDEWALK EXTENSION

EXISTING CONDITIONS & DEMO PLAN

C101

FILE NO: 2022-20

PLOT DATE: August 22, 2023



SCALE BAR: 1"= 20 '
20 0 10 20 40 80

REVISIONS:

DESIGN PROFESSIONAL:
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GSWCC LEVEL II # 70248
EXPIRES: 06/14/2023
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GEORGIA REGISTERED No. 70248 PROFESSIONAL ENGINEER MARCUS E. SACK

DATE: 8/22/2023

M.E. SACK ENGINEERING 80

MUNICIPALITY:
CITY OF FOLKSTON

COUNTY:
CHARLTON

Owner:
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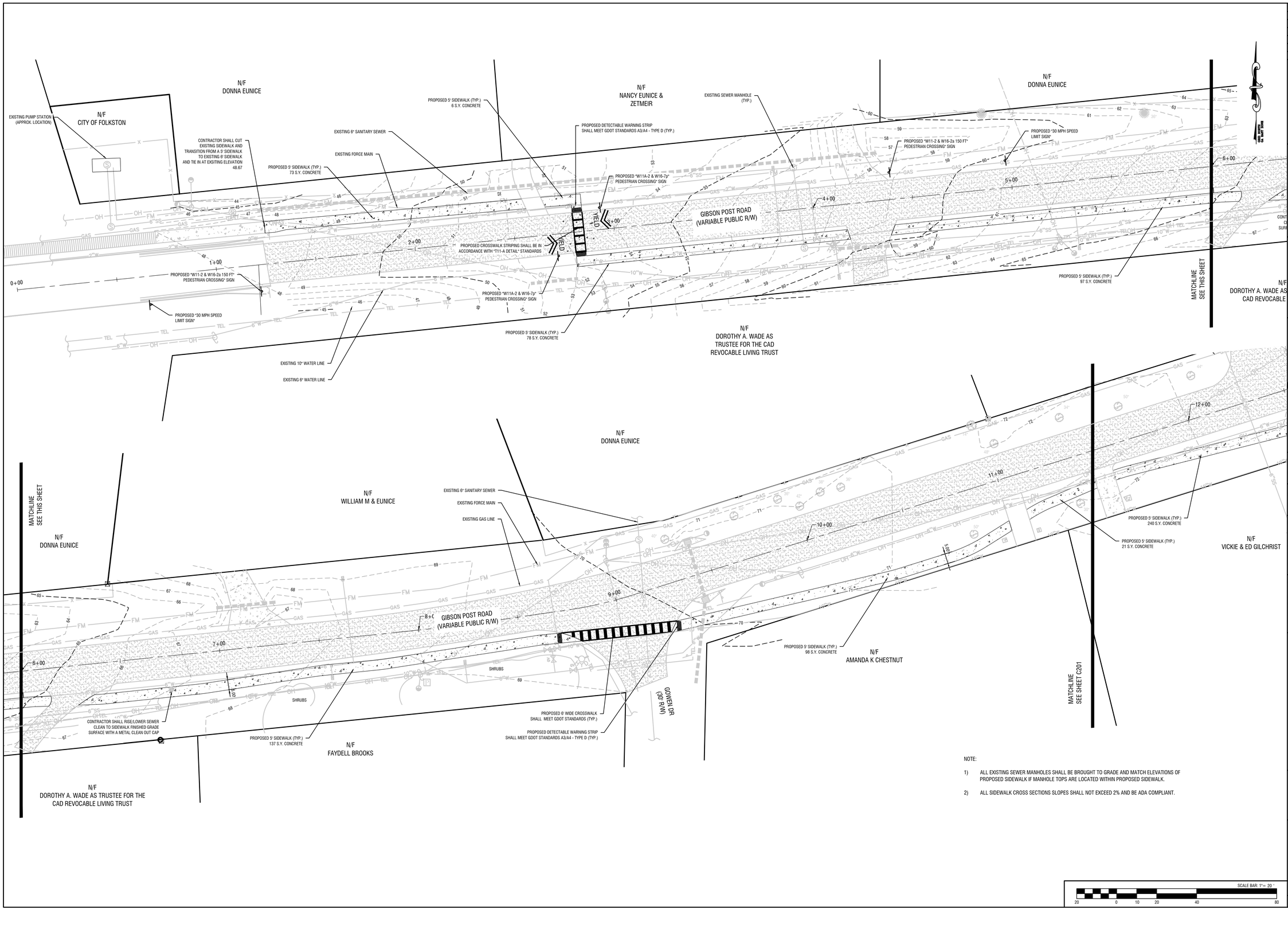
FOLKSTON SIDEWALK EXTENSION

EXISTING CONDITIONS & DEMO PLAN

C102

FILE NO: 2022-20

PLOT DATE: August 22, 2023



NOTE:

1) ALL EXISTING SEWER MANHOLES SHALL BE BROUGHT TO GRADE AND MATCH ELEVATIONS OF PROPOSED SIDEWALK IF MANHOLE TOPS ARE LOCATED WITHIN PROPOSED SIDEWALK.

2) ALL SIDEWALK CROSS SECTIONS SLOPES SHALL NOT EXCEED 2% AND BE ADA COMPLIANT.

SCALE BAR: 1"= 20 '
20 0 10 20 40 80

REVISIONS:

DESIGN PROFESSIONAL:
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GEORGIA REGISTERED No. 33067 PROFESSIONAL ENGINEER MARCUS E. SACK

DATE: 8/22/2023

M.E. SACK ENGINEERING 80 1"=

MUNICIPALITY:
CITY OF FOLKSTON

COUNTY:
CHARLTON

Owner:
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24 HOUR CONTACT:
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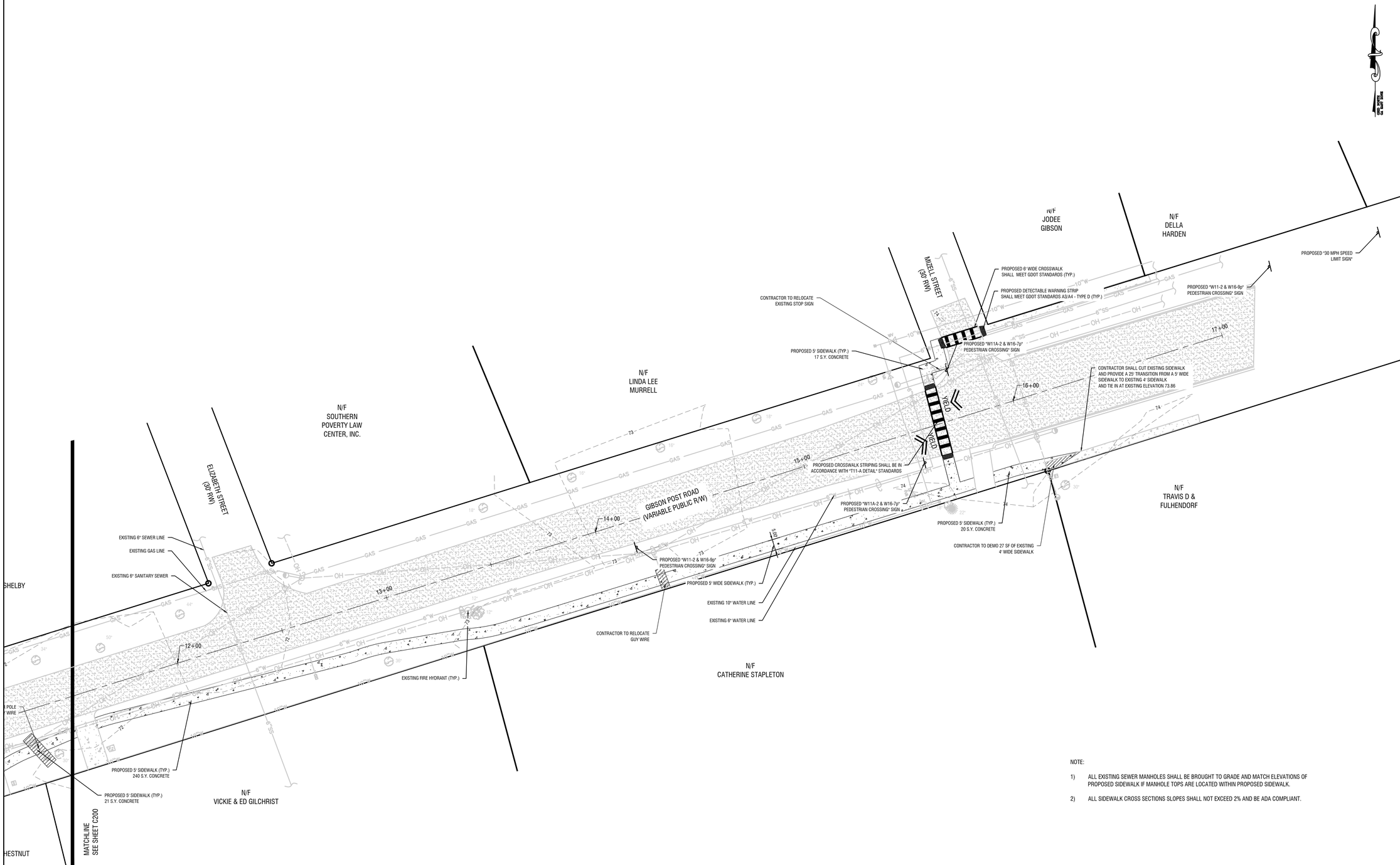
FOLKSTON SIDEWALK EXTENSION

SITE PLAN

C200

FILE NO: 2022-20

PLOT DATE: August 22, 2023



NOTE:

1) ALL EXISTING SEWER MANHOLES SHALL BE BROUGHT TO GRADE AND MATCH ELEVATIONS OF PROPOSED SIDEWALK IF MANHOLE TOPS ARE LOCATED WITHIN PROPOSED SIDEWALK.

2) ALL SIDEWALK CROSS SECTIONS SLOPES SHALL NOT EXCEED 2% AND BE ADA COMPLIANT.

SCALE BAR: 1"= 20 '

20 0 10 20 40 80

REVISIONS:

DESIGN PROFESSIONAL:
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GEORGIA REGISTERED No. 33507 PROFESSIONAL ENGINEER MARCUS E. SACK

DATE: 8/22/2023

M.E. SACK ENGINEERING 80 1 8

MUNICIPALITY:
CITY OF FOLKSTON

COUNTY:
CHARLTON

Owner:
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FOLKSTON SIDEWALK EXTENSION

SITE PLAN

C201

FILE NO: 2022-20

PLOT DATE: August 22, 2023

N/F
CITY OF FOLKSTON

N/F
DONNA EUNICE

N/F
NANCY EUNICE &
ZETMEIR

N/F
DONNA EUNICE

CONTRACTOR SHALL MATCH EXISTING
SIDEWALK ELEVATION OF 48.67

GIBSON POST ROAD
(VARIABLE PUBLIC R/W)

MATCHLINE
SEE THIS SHEET

N/F
DOROTHY A. WADE AS
CAD REVOCABLE

N/F
DOROTHY A. WADE AS
TRUSTEE FOR THE CAD
REVOCABLE LIVING TRUST

N/F
DONNA EUNICE

N/F
WILLIAM M & EUNICE

MATCHLINE
SEE THIS SHEET

N/F
DONNA EUNICE

GIBSON POST ROAD
(VARIABLE PUBLIC R/W)

GODWIN DR
(30' R/W)

N/F
AMANDA K CHESTNUT

N/F
VICKIE & ED GILCHRIST

MATCHLINE
SEE SHEET C201

N/F
FAYDELL BROOKS

N/F
DOROTHY A. WADE AS TRUSTEE FOR THE
CAD REVOCABLE LIVING TRUST

SCALE BAR: 1"= 20 '
20 0 10 20 40 80

REVISIONS:

DESIGN PROFESSIONAL:
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EXPIRES: 06/14/2023
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GEORGIA REGISTERED No. 35557 PROFESSIONAL ENGINEER MARCUS E. SACK

DATE: 8/22/2023

M.E. SACK ENGINEERING 80 19

MUNICIPALITY:
CITY OF FOLKSTON

COUNTY:
CHARLTON

Owner:
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PENDER LLOYD
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(912) 496-2563

24 HOUR CONTACT:
THE CITY OF FOLKSTON
PENDER LLOYD
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FOLKSTON, GA 31537
(912) 496-2563

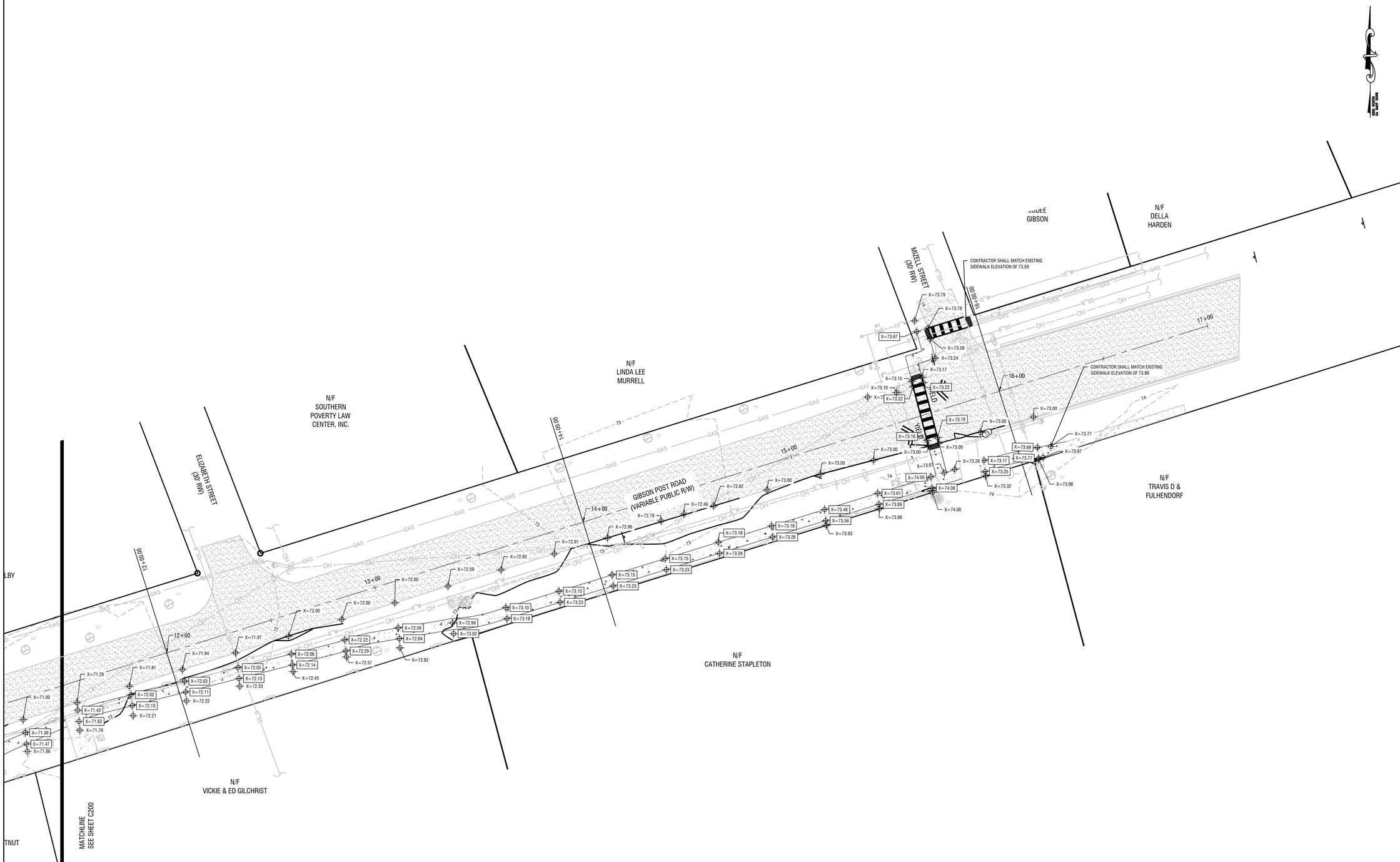
FOLKSTON SIDEWALK EXTENSION

GRADING PLAN

C300

FILE NO: 2022-20

PLOT DATE: August 22, 2023



REVISIONS:

DESIGN PROFESSIONAL:
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GEORGIA REGISTERED No. 33507 PROFESSIONAL ENGINEER MARCUS E. SACK

DATE: 8/22/2023

M.E. SACK ENGINEERING 180

MUNICIPALITY:
CITY OF FOLKSTON

COUNTY:
CHARLTON

Owner:
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(912) 496-2563

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FOLKSTON SIDEWALK EXTENSION

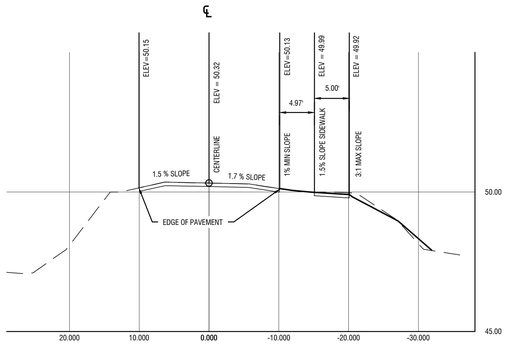
GRADING PLAN

C301

SCALE BAR: 1"= 20 '
20 0 10 20 40 80

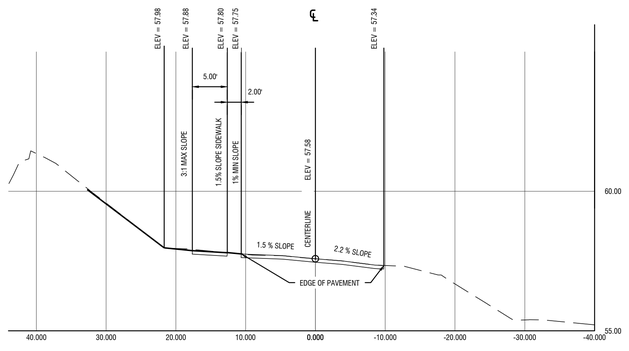
FILE NO: 2022-20

PLOT DATE: August 22, 2023



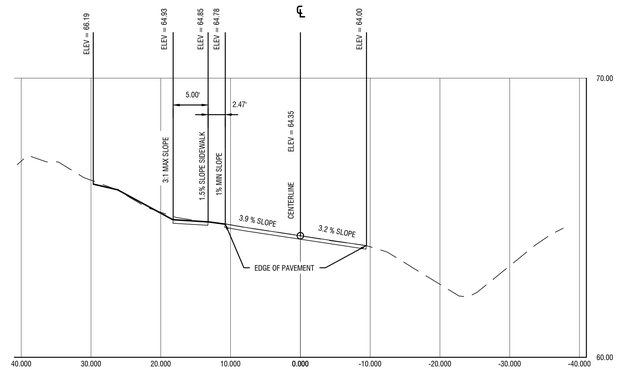
CROSS SECTION
STA =2+00.00

VERTI. SCALE 1" = 5'
HORIZ. SCALE 1" =20'



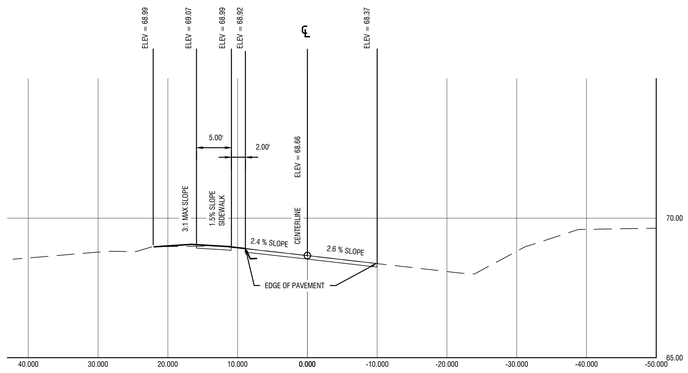
CROSS SECTION
STA =4+00.00

VERTI. SCALE 1" = 5'
HORIZ. SCALE 1" =20'



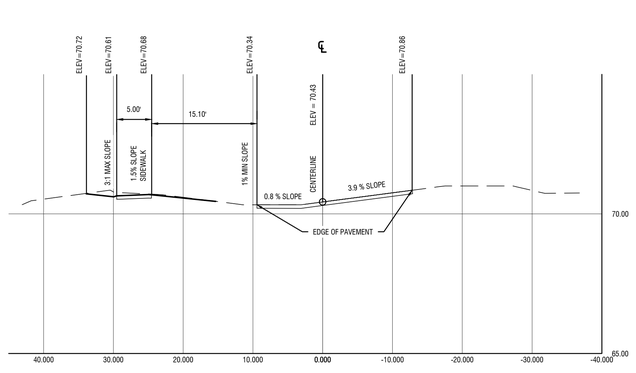
CROSS SECTION
STA =6+00.00

VERTI. SCALE 1" = 5'
HORIZ. SCALE 1" =20'



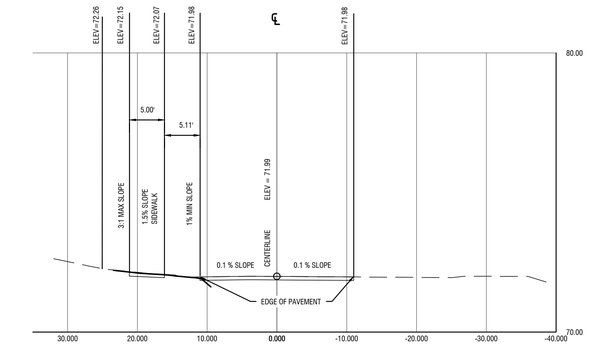
CROSS SECTION
STA =8+00.00

VERTI. SCALE 1" = 5'
HORIZ. SCALE 1" =20'



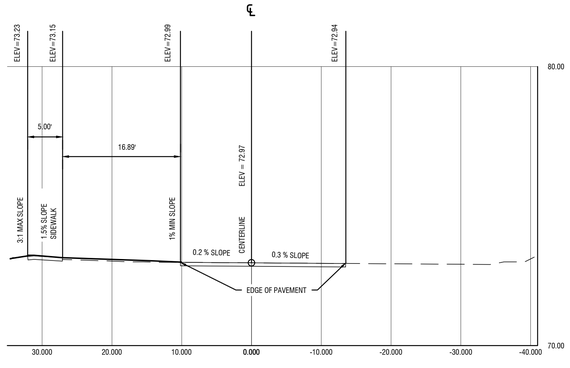
CROSS SECTION
STA =10+00.00

VERTI. SCALE 1" = 5'
HORIZ. SCALE 1" =20'



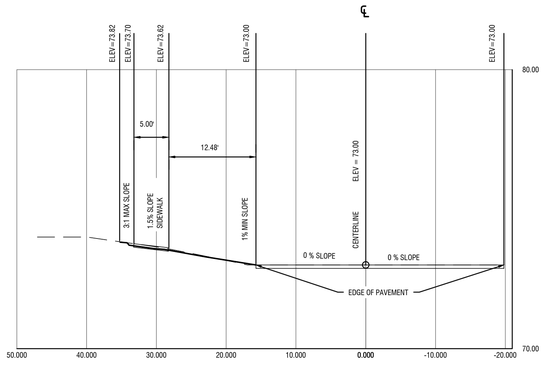
CROSS SECTION
STA =12+00.00

VERTI. SCALE 1" = 5'
HORIZ. SCALE 1" =20'



CROSS SECTION
STA =14+00.00

VERTI. SCALE 1" = 5'
HORIZ. SCALE 1" =20'



CROSS SECTION
STA =16+00.00

VERTI. SCALE 1" = 5'
HORIZ. SCALE 1" =20'

SCALE BAR: 1"= 20 '
20 0 10 20 40 80

REVISIONS:

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GEORGIA REGISTERED No. 33507 PROFESSIONAL ENGINEER MARCUS E. SACK

DATE: 8/22/2023

M.E. SACK ENGINEERING 80 193

MUNICIPALITY:
CITY OF FOLKSTON

COUNTY:
CHARLTON

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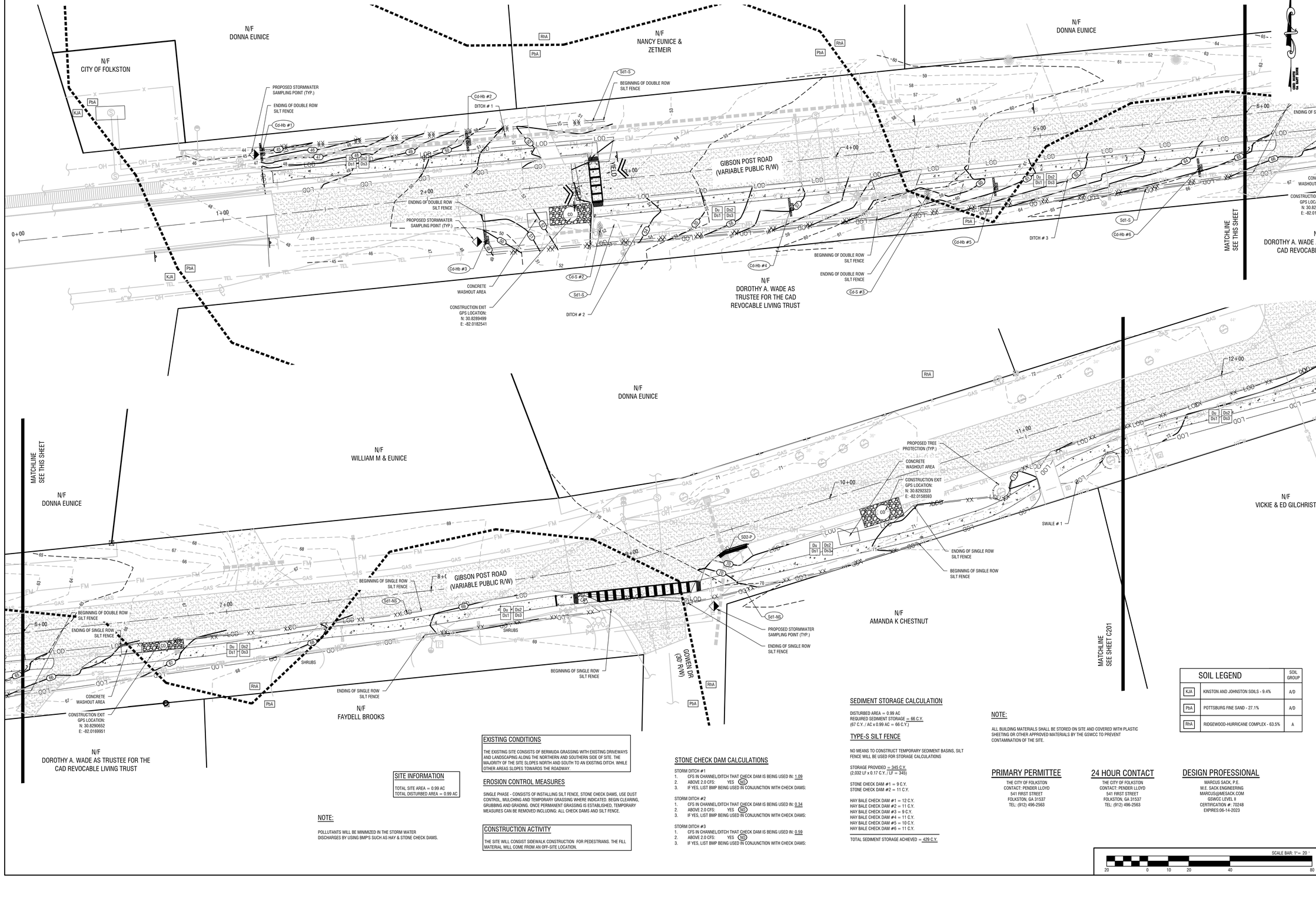
FOLKSTON SIDEWALK EXTENSION

CROSS SECTIONS

C400

FILE NO: 2022-20

PLOT DATE: August 22, 2023



SITE INFORMATION

TOTAL SITE AREA = 0.99 AC
TOTAL DISTURBED AREA = 0.99 AC

NOTE:

POLLUTANTS WILL BE MINIMIZED IN THE STORM WATER DISCHARGES BY USING BMP'S SUCH AS HAY & STONE CHECK DAMS.

EXISTING CONDITIONS

THE EXISTING SITE CONSISTS OF BERMUDA GRASSING WITH EXISTING DRIVEWAYS AND LANDSCAPING ALONG THE NORTHERN AND SOUTHERN SIDE OF SITE. THE MAJORITY OF THE SITE SLOPES NORTH AND SOUTH TO AN EXISTING DITCH. WHILE OTHER AREAS SLOPES TOWARDS THE ROADWAY.

EROSION CONTROL MEASURES

SINGLE PHASE - CONSISTS OF INSTALLING SILT FENCE, STONE CHECK DAMS, USE DUST CONTROL, MULCHING AND TEMPORARY GRASSING WHERE INDICATED. BEGIN CLEARING, GRUBBING AND GRADING. ONCE PERMANENT GRASSING IS ESTABLISHED, TEMPORARY MEASURES CAN BE REMOVED INCLUDING: ALL CHECK DAMS AND SILT FENCE.

CONSTRUCTION ACTIVITY

THE SITE WILL CONSIST SIDEWALK CONSTRUCTION FOR PEDESTRIANS. THE FILL MATERIAL WILL COME FROM AN OFF-SITE LOCATION.

STONE CHECK DAM CALCULATIONS

STORM DITCH #1
1. CFS IN CHANNEL/DITCH THAT CHECK DAM IS BEING USED IN: 1.09
2. ABOVE 2.0 CFS: YES (NO)
3. IF YES, LIST BMP BEING USED IN CONJUNCTION WITH CHECK DAMS:

STORM DITCH #2
1. CFS IN CHANNEL/DITCH THAT CHECK DAM IS BEING USED IN: 0.34
2. ABOVE 2.0 CFS: YES (NO)
3. IF YES, LIST BMP BEING USED IN CONJUNCTION WITH CHECK DAMS:

STORM DITCH #3
1. CFS IN CHANNEL/DITCH THAT CHECK DAM IS BEING USED IN: 0.59
2. ABOVE 2.0 CFS: YES (NO)
3. IF YES, LIST BMP BEING USED IN CONJUNCTION WITH CHECK DAMS:

SEDIMENT STORAGE CALCULATION

DISTURBED AREA = 0.99 AC
REQUIRED SEDIMENT STORAGE = 66 C.Y.
(67 C.Y. / AC x 0.99 AC = 66 C.Y.)

TYPE-S SILT FENCE

NO MEANS TO CONSTRUCT TEMPORARY SEDIMENT BASINS, SILT FENCE WILL BE USED FOR STORAGE CALCULATIONS

STORAGE PROVIDED = 345 C.Y.
(2,032 LF x 0.17 C.Y. / LF = 345)

STONE CHECK DAM #1 = 9 C.Y.
STONE CHECK DAM #2 = 11 C.Y.

HAY BALE CHECK DAM #1 = 12 C.Y.
HAY BALE CHECK DAM #2 = 11 C.Y.
HAY BALE CHECK DAM #3 = 9 C.Y.
HAY BALE CHECK DAM #4 = 11 C.Y.
HAY BALE CHECK DAM #5 = 10 C.Y.
HAY BALE CHECK DAM #6 = 11 C.Y.

TOTAL SEDIMENT STORAGE ACHIEVED = 429 C.Y.

NOTE:

ALL BUILDING MATERIALS SHALL BE STORED ON SITE AND COVERED WITH PLASTIC SHEETING OR OTHER APPROVED MATERIALS BY THE GSWCC TO PREVENT CONTAMINATION OF THE SITE.

SOIL LEGEND		SOIL GROUP
KJA	KINSTON AND JOHNSTON SOILS - 9.4%	A/D
PbA	POTTSBURG FINE SAND - 27.1%	A/D
RhA	RIDGEWOOD-HURRICANE COMPLEX - 63.5%	A

PRIMARY PERMITTEE

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FOLKSTON, GA 31537
TEL: (912) 496-2563

24 HOUR CONTACT

THE CITY OF FOLKSTON
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GSWCC LEVEL II
CERTIFICATION #: 70248
EXPIRES:06-14-2023

SCALE BAR: 1"= 20 '
20 0 10 20 40 80

REVISIONS:

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GEORGIA REGISTERED No. 70248 ENGINEER MARCUS E. SACK

DATE: 8/22/2023

M.E. SACK ENGINEERING 80 1 96

MUNICIPALITY:
CITY OF FOLKSTON

COUNTY:
CHARLTON

Owner:
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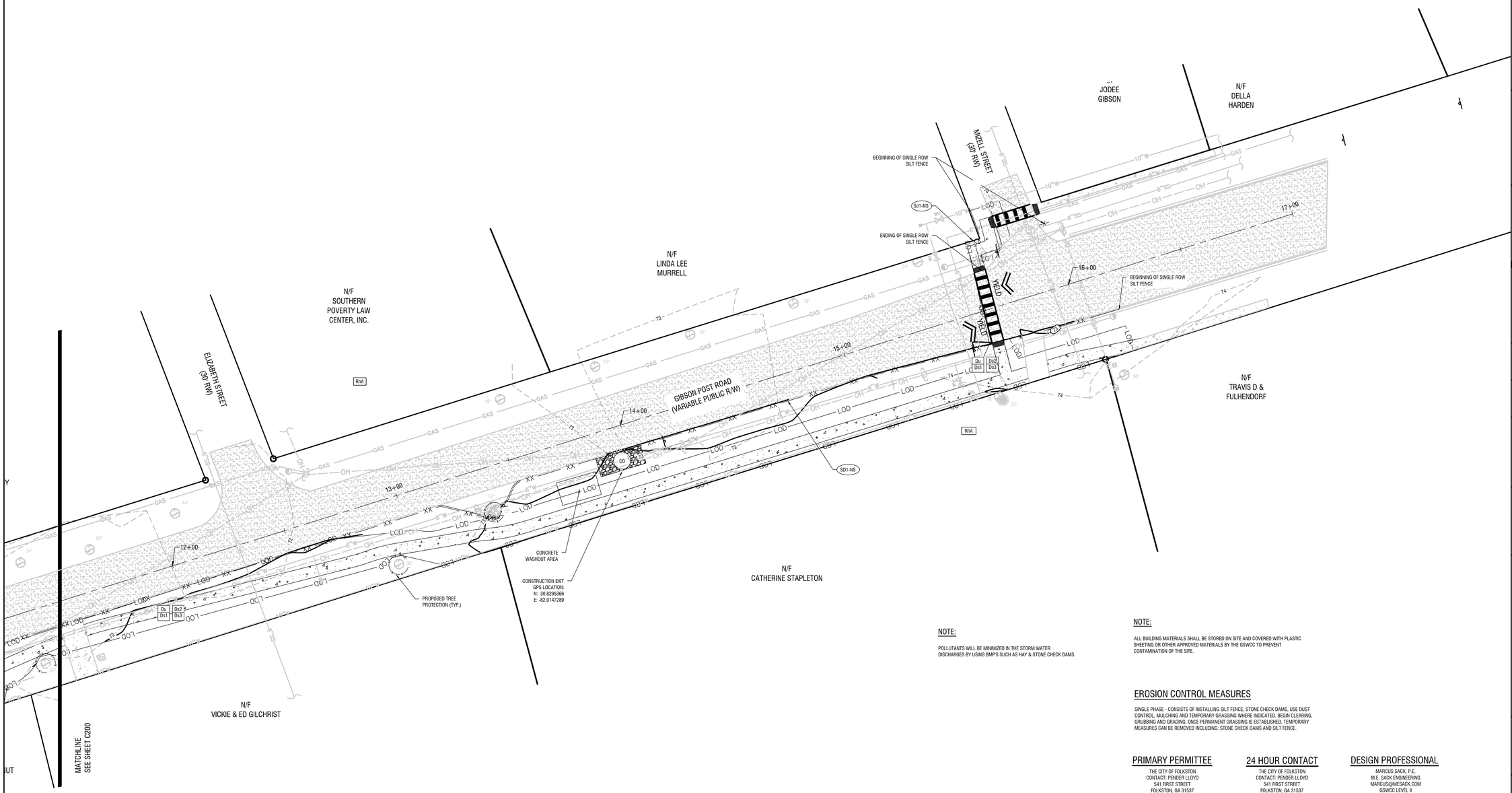
FOLKSTON SIDEWALK EXTENSION

ESPC PLAN

C500

FILE NO: 2022-20

PLOT DATE: August 22, 2023



NOTE:

POLLUTANTS WILL BE MINIMIZED IN THE STORM WATER DISCHARGES BY USING BMP'S SUCH AS HAY & STONE CHECK DAMS.

NOTE:

ALL BUILDING MATERIALS SHALL BE STORED ON SITE AND COVERED WITH PLASTIC SHEETING OR OTHER APPROVED MATERIALS BY THE GSWCC TO PREVENT CONTAMINATION OF THE SITE.

EROSION CONTROL MEASURES

SINGLE PHASE - CONSISTS OF INSTALLING SILT FENCE, STONE CHECK DAMS, USE DUST CONTROL, MULCHING AND TEMPORARY GRASSING WHERE INDICATED. BEGIN CLEARING, GRUBBING AND GRADING. ONCE PERMANENT GRASSING IS ESTABLISHED, TEMPORARY MEASURES CAN BE REMOVED INCLUDING: STONE CHECK DAMS AND SILT FENCE.

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SCALE BAR: 1"= 20 '
20 0 10 20 40 80

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FOLKSTON SIDEWALK EXTENSION

ESPC PLAN

C501

FILE NO: 2022-20

PLOT DATE: August 22, 2023

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)

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 retardant 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. Cutback asphalt, slow curing – applied at 1200 gallons per acre (or 1/4 gallon per sq. yd.)
5. 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 8 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 AE–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.
4. Apply asphalt so area has uniform appearance. (Note: Use in areas of pedestrian traffic could cause problems or "tracking in" or damage to shoes, clothing, etc.)

B. To conserve moisture and control weeds in nurseries, ornamental beds, around shrubs, and on bar areas on lawns.

Mulching Materials

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

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

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

Ds2 SPECIES AND PLANTING SCHEDULE

SPECIES	BROADCAST RATES 1/ – PLS 2/ PER ACRE	BROADCAST RATES 1/ – PLS 2/ PER 1000 S.F.	PLANTING DATES BY RESOURCE AREA 3/ AREAS *	REMARKS
RYEGRASS, ANNUAL ALONE	40 lbs.	0.9 lb.	M–L P C	227,000 SEED PER POUND. DENSE COVER. VERY COMPETITIVE AND IS NOT TO BE USED IN MIXTURES.

* (DARK LINES REPRESENT OPTIMUM DATES, GRAY LINES INDICATE PERMISSIBLE BUT MARGINAL DATES.)

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
Sericea Lespedeza Hay	3 Tons	Containing mature seeds.
Pine Straw or Bark	3 inches thick	For bedding. Not for seeding.
Bituminous treated roving	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.

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 seedings	First	20–10–5	one 21–gram pallet per seeding placed in the closing hole	–	–
Shrub leapedeza	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 pruned.
5/ Apply to grass species only.
6/ Apply when plants grow to height of 2 to 4 inches.

Ds3 SPECIES AND PLANTING SCHEDULE

SPECIES	BROADCAST RATES 1/ – PLS 2/ PER ACRE	BROADCAST RATES 1/ – PLS 2/ PER 1000 S.F.	PLANTING DATES BY RESOURCE AREA 3/ AREAS *	SPECIFICATIONS
BERMUDA, COMMON HUILLED SEED ALONE	10 LBS.	0.2 LB.	P C	1,787,000 SEED PER POUND. QUICK COVER. LOW GROWING AND SOD FORMING. FULL SUN. GOOD FOR ATHLETIC FIELDS.
WITH OTHER PERENNIALS	6 LBS.	0.1 LB.		
BERMUDA, COMMON UNHULLED SEED WITH TEMPORARY COVER	10 LBS.	0.2 LB.	P C	PLANT WITH WINTER ANNUALS.
WITH OTHER PERENNIALS	6 LBS.	0.1 LB.		PLANT WITH TALL FESCUE.
BERMUDA SPRIGS	40 CU. FT.	0.9 CU.FT.	M–L	A CUBIC FT. CONTAINS APPROXIMATLY 650 SPRIGS. A BUSHEL CONTAINS 1.25 C.F. OR APPROXIMATLY 800 SPRIGS.
COASTAL, COMMON, MIDLAND, OR TIFT 44	OR SOD PLUGS 3' X 3'		P C	SAME AS ABOVE.
COASTAL, COMMON, TIFT 44			C	
TIFT 78				SOUTHERN COASTAL PLAIN ONLY

* (DARK LINES REPRESENT OPTIMUM DATES, GRAY LINES INDICATE PERMISSIBLE BUT MARGINAL DATES.)

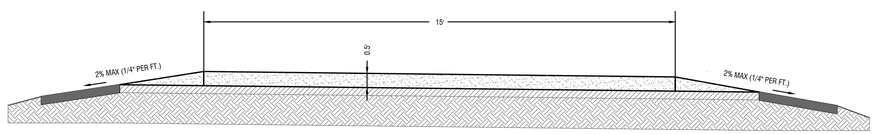
3.4.5 Pedestrian Warning Signs

Pedestrian in crosswalk signs (W11A-2 with downward arrow plaque W16-7p) shall be installed at each end of the crosswalk location. The signs shall be placed in advance of the crosswalk adjacent to the travel lane and facing the driver.

Advance pedestrian warning signs (W11-2) shall be installed at a distance of at least 150 ft but not exceeding 700 feet in advance of the crosswalk, in either direction. Advance pedestrian warning signs may be accompanied by supplemental plaques with the legend "AHEAD" (W16-9p) or "XXX FEET" (W16-2a).

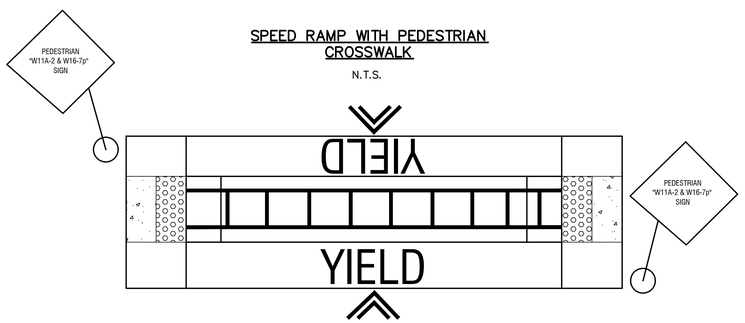
At locations along an established route to school, a school crossing sign (S1-1) may be used instead of the pedestrian warning sign (W11-2).

Pedestrian Warning Signs 4



SPEED RAMP WITH PEDESTRIAN CROSSWALK

N.T.S.



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.
Cv	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 construction site. The dike 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 lined chute, pipe, sectional conduit or similar material designed to safely conduct surface runoff down a slope.
Fr	FILTER RING			A temporary stone barrier constructed at storm drain inlets and pond outlets.
Gs	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 channels the slope would be sufficient to cause 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 on undisturbed soil.
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.
Ri	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 and/or placing an earth dike around 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.
Sph	SEEP BERM			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.

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.
Ts	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	WEEPING WATERMAT OR STORMWATER CONVEYANCE			Paved or vegetative outlet waters for diversions, terraces, berms, dikes or similar structures.

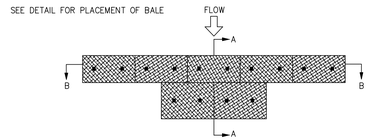
VEGETATIVE PRACTICES

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		Cs	Planting vegetation on dunes that are denuded or artificially constructed, or re–nourished.
Ds1	DISTURBED AREA STABILIZATION (WITH MULCHING ONLY)		Ds1	Establishing temporary protection for disturbed areas where seedlings may not have a suitable growing season to produce an erosion retarding cover.
Ds2	DISTURBED AREA STABILIZATION (WITH TEMP. SEEDING)		Ds2	Establishing a temporary vegetative cover with fast growing seedings on disturbed area.
Ds3	DISTURBED AREA STABILIZATION (WITH PERM. SEEDING)		Ds3	Establishing a permanent vegetative cover such as trees, shrubs, vines, grasses, or legumes on disturbed areas.
Ds4	DISTURBED AREA STABILIZATION (SODDING)		Ds4	A permanent vegetative cover using sods on highly erodable or critically eroded lands.
Du	DUST CONTROL ON DISTURBED AREAS		Du	Controlling surface and air movement of dust on construction site, roadways and similar sites.
Fl–Co	FLOCCULANTS AND COAGULANTS		FLOC	Substance formulated to assist in the solids/liquid separation of suspended particles in solution.
Sb	STREAMBANK STABILIZATION (CONSTRUCTION WITH VEGETATION)		Sb	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		Ss	A protective covering used to prevent erosion and establish temporary or permanent vegetation on steep slopes, shore lines, or channels.
Tac	TACKIFIERS AND BINDERS		Tac	Substance used to anchor straw or hay mulch by coupling the organic material to bind together.

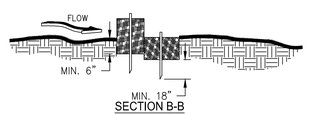
GaSWCC (Amended – 2013)

TYPICAL STRAW BALE CHECK DAM (CD–Hb)

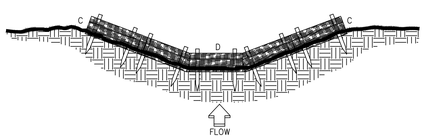
PLAN



SECTION A-A



SECTION B-B



NOTES:
1. BALES SHOULD BE BOUND WITH WIRE OR NYLON STRING AND SHOULD BE PLACED IN ROWS WITH BALE ENDS TIGHTLY ABUTTING THE ADJACENT BALES.
2. REMOVE #4 REBAR AFTER STRAW BALES ARE NO LONGER IN PLACE.
3. POINT C OF SECTION B–B SHOULD ALWAYS BE HIGHER THAN POINT D.

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DATE: 8/22/2023

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MUNICIPALITY:

COUNTY:
COUNTY:

Owner:
NAME
ADDRESS
ADDRESS
PHONE
EMAIL

24 HOUR CONTACT:
NAME
ADDRESS
ADDRESS
PHONE
EMAIL

FOLKSTON SIDEWALK EXTENSION

ESPC DETAILS

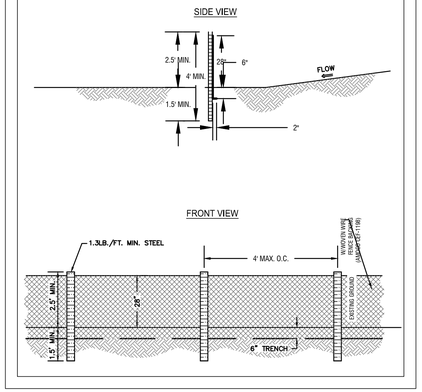
C600

FILE NO: 2022-20

PLOT DATE: August 22, 2023

SILT FENCE - TYPE SENSITIVE

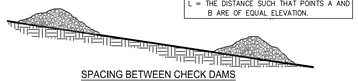
Sd1–S



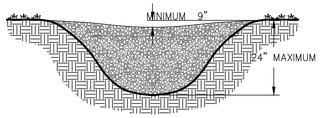
STONE CHECK DAM

CROSS SECTION Cd–S

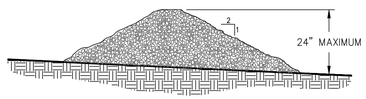
A = THE TOE OF THE UPSTREAM CHECK DAM.
B = TOP OF THE DOWNSTREAM CHECK DAM.
L = THE DISTANCE SUCH THAT POINTS A AND B ARE OF EQUAL ELEVATION.



SPACING BETWEEN CHECK DAMS



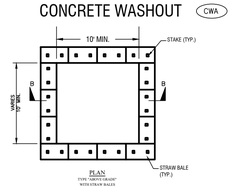
PROFILE VIEW

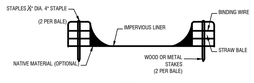


NOTES:
1. CHECK DAMS ARE TO BE USED ONLY IN SMALL OPEN CHANNELS (THEY ARE NOT TO BE USED IN LIVE STREAMS).
2. THE DRAINAGE AREA FOR STONE CHECK DAMS SHALL NOT EXCEED TWO ACRES.
3. THE CENTER OF THE CHECK DAM MUST BE AT LEAST 9 INCHES LOWER THAN THE OUTER EDGES.
4. THE DAM HEIGHT SHOULD BE A MAXIMUM OF 2 FEET FROM CENTER TO RIM EDGE.
5. THE SIDE SLOPES OF THE CHECK DAM SHALL NOT EXCEED A 2:1 SLOPE.
6. GEOTEXTILE SHALL BE USED TO PREVENT THE MITIGATION OF SUBGRADE SOIL PARTICLES INTO THE STONES (REFER TO AASHTO M288-96, SECTION 7.3, TABLE 3).

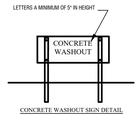
CONCRETE WASHOUT

CWA





SECTION B-B

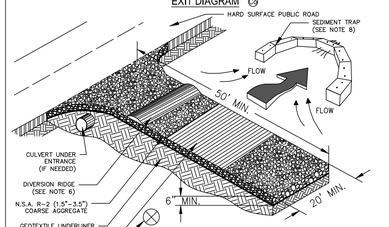


CONCRETE WASHOUT SIGN DETAIL

NOTES:
1. ACTUAL LAYOUT DETERMINED IN FIELD.
2. INSTALL CONCRETE WASHOUT SIGN (24"X24", MINIMUM) WITHIN 30' OF THE TEMPORARY CONCRETE WASHOUT FACILITY.
3. TEMPORARY WASHOUT AREA MUST BE AT LEAST 50' FROM A STORM DRAIN, CREEK BANK OR PERIMETER CONTROL.
4. CLEAN OUT CONCRETE WASHOUT AREA WHEN 50% FULL.
5. THE KEY TO FUNCTIONAL CONCRETE WASHOUTS IS WEEKLY INSPECTIONS, ROUTINE MAINTENANCE, AND REGULAR CLEAN OUT.
6. SILT FENCE SHALL BE INSTALLED AROUND PERIMETER OF CONCRETE WASHOUT AREA EXCEPT FOR THE SIDE UTILIZED FOR ACCESSING THE WASHOUT.
7. A ROCK CONSTRUCTION ENTRANCE MAY BE NECESSARY ALONG ONE SIDE OF THE WASHOUT TO PROVIDE VEHICLE ACCESS.

CRUSHED STONE CONSTRUCTION EXIT

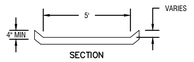
EXIT DIAGRAM G



ENTRANCE ELEVATION

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

DETECTABLE WARNING SURFACE TO BE INSTALLED IN ACCORDANCE WITH GEORGIA DEPARTMENT OF TRANSPORTATION SPECIAL DETAIL A4



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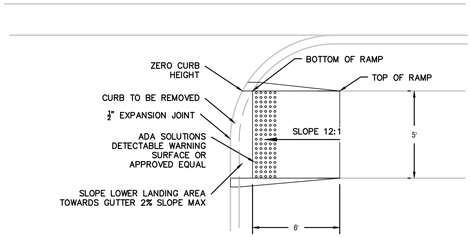
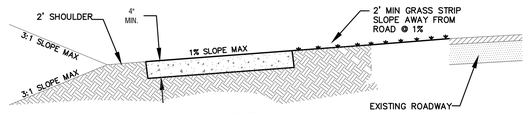


CURB CUT RAMP NOTES:

1. CURB CUT RAMPS WILL BE LOCATED AS FOLLOWS UNLESS PLANS OR CONTRACT SPECIFY OTHERWISE
   a. AT ALL PEDESTRIAN CROSSWALKS WHERE CURB IS CONSTRUCTED OR REPLACED
   b. WHERE THE SIDEWALK, CONCRETE OR UNPAVED, IS INTERRUPTED BY THE CURB AT TURNOUTS OR INTERSECTIONS
2. RAMPS WILL BE CONSTRUCTED FROM CONCRETE. SPECIFICATIONS FOR RAMPS WILL BE THE SAME AS FOR CONCRETE SIDEWALK. RAMPS SHALL HAVE EITHER A ROUGH OR A TEXTURED FINISH
3. DROP INLETS ARE NOT TO BE LOCATED DIRECTLY IN FRONT OF RAMPS. CATCH BASINS SHOULD BE LOCATED AT LEAST 10' FROM RAMPS WHEN FEASIBLE
4. WHERE RAMPS ARE LOCATED IN RADII, THE DIMENSIONS SHOWN FOR RAMP WIDTHS AND TAPERS ARE MEASURED PERPENDICULAR TO THE RAMP AND NOT ALONG THE CURVE
5. WHERE UTILITY STRUCTURES CONFLICT, WHERE SIDEWALK GEOMETRY VARIES, AT SKEWED INTERSECTIONS, OR IN OTHER SPECIAL CASES, THE RAMP DESIGNS MAY BE MODIFIED BY THE DESIGNER OR ENGINEER, PROVIDED THAT THE WIDTH REMAINS A MINIMUM OF 48", AND NO SLOPE ON THE ACCESSIBLE PART OF THE RAMP IS STEEPER THAN 12:1
6. DETECTABLE WARNING SURFACES ARE REQUIRED ON ALL INTERSECTIONS WITH PUBLIC STREETS, SIGNALIZED COMMERICAL DRIVEWAYS, AND COMMERICAL DRIVEWAYS WITH AN AADT OF 2910S

CURB CUT, RAMP & DETECTABLE WARNING SURFACE DETAIL

SCALE: NTS



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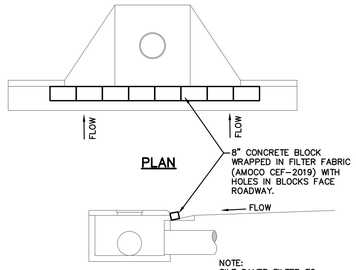


PLAN

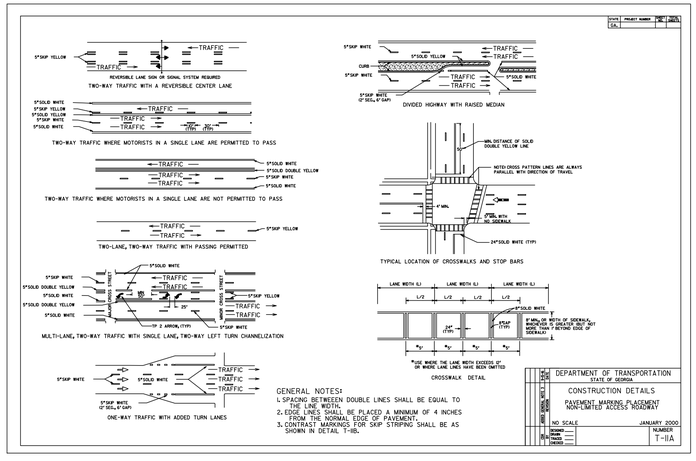
SECTION

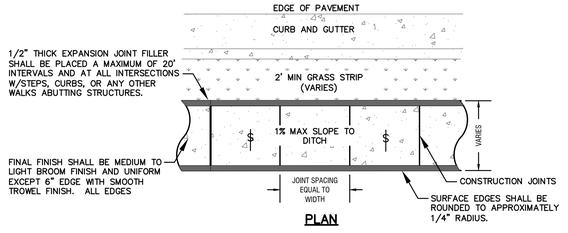
NOTE: SILT SAVER FILTER TO BE USED FOR INLET PROTECTION

SEDIMENT TRAP–Sd2–P

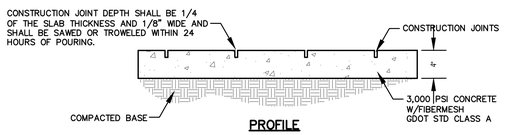
N.T.S.

SD2–P





PLAN



PROFILE

TYPICAL SIDEWALK DETAIL (TYPE I)

N.T.S.

REVISIONS:

DESIGN PROFESSIONAL:
MARCUS E. SACK
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GEORGIA REGISTERED No. 35547 PROFESSIONAL ENGINEER MARCUS E. SACK

DATE: 8/22/2023

M.E. SACK ENGINEERING

MUNICIPALITY:
MUNICIPALITY:

COUNTY:
COUNTY:

Owner:
NAME
ADDRESS
ADDRESS
PHONE
EMAIL

24 HOUR CONTACT:
NAME
ADDRESS
ADDRESS
PHONE
EMAIL

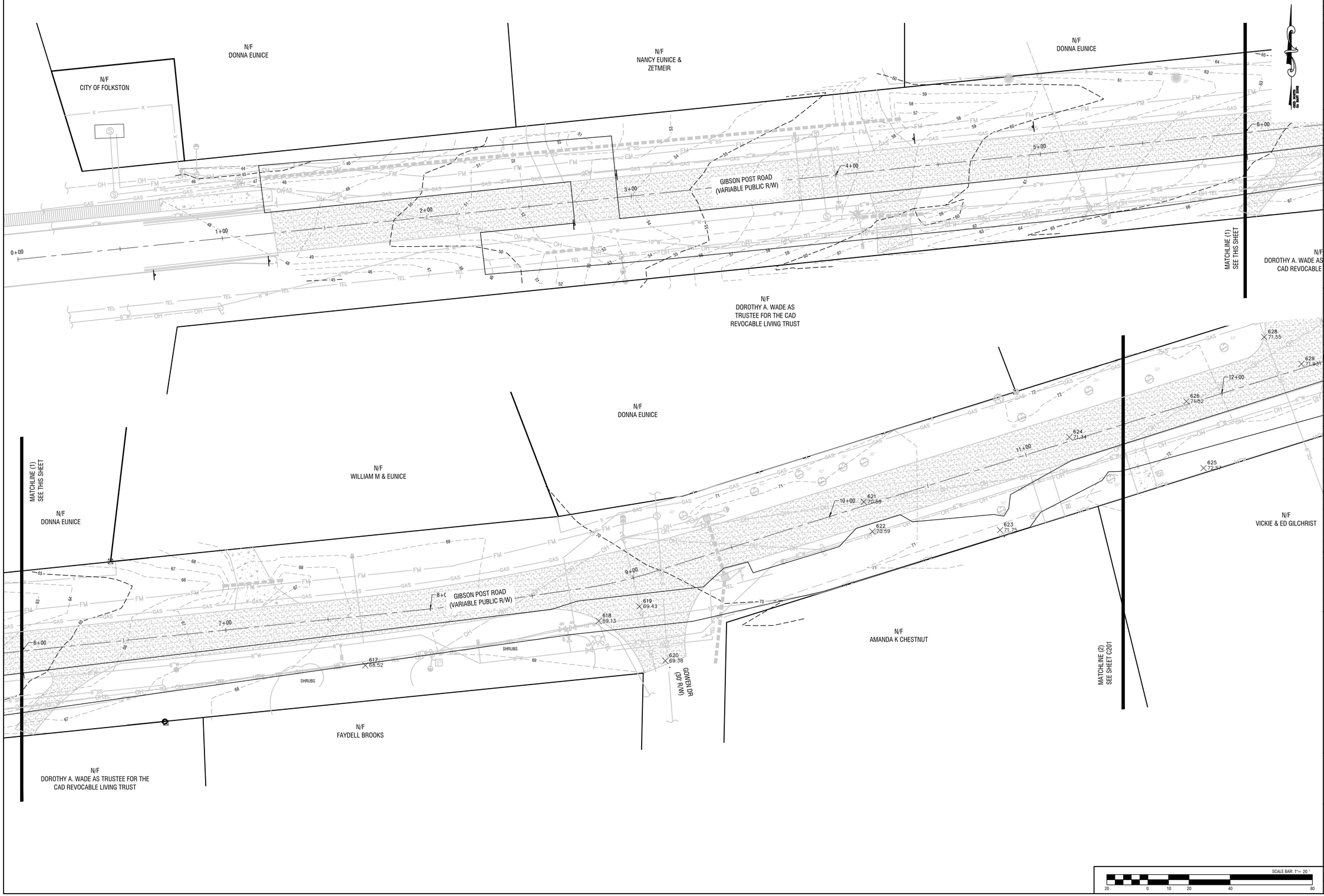
FOLKSTON SIDEWALK EXTENSION

ESPC DETAILS

C601

FILE NO: 2022-20

PLOT DATE: August 22, 2023



REVISIONS:

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GEORGIA REGISTERED No. 33557 PROFESSIONAL ENGINEER MARCUS E. SACK

DATE: 8/22/2023

M.E. SACK ENGINEERING

MUNICIPALITY:
CITY OF FOLKSTON

COUNTY:
CHARLTON

Owner:
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PENDER LLOYD
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FOLKSTON SIDEWALK EXTENSION

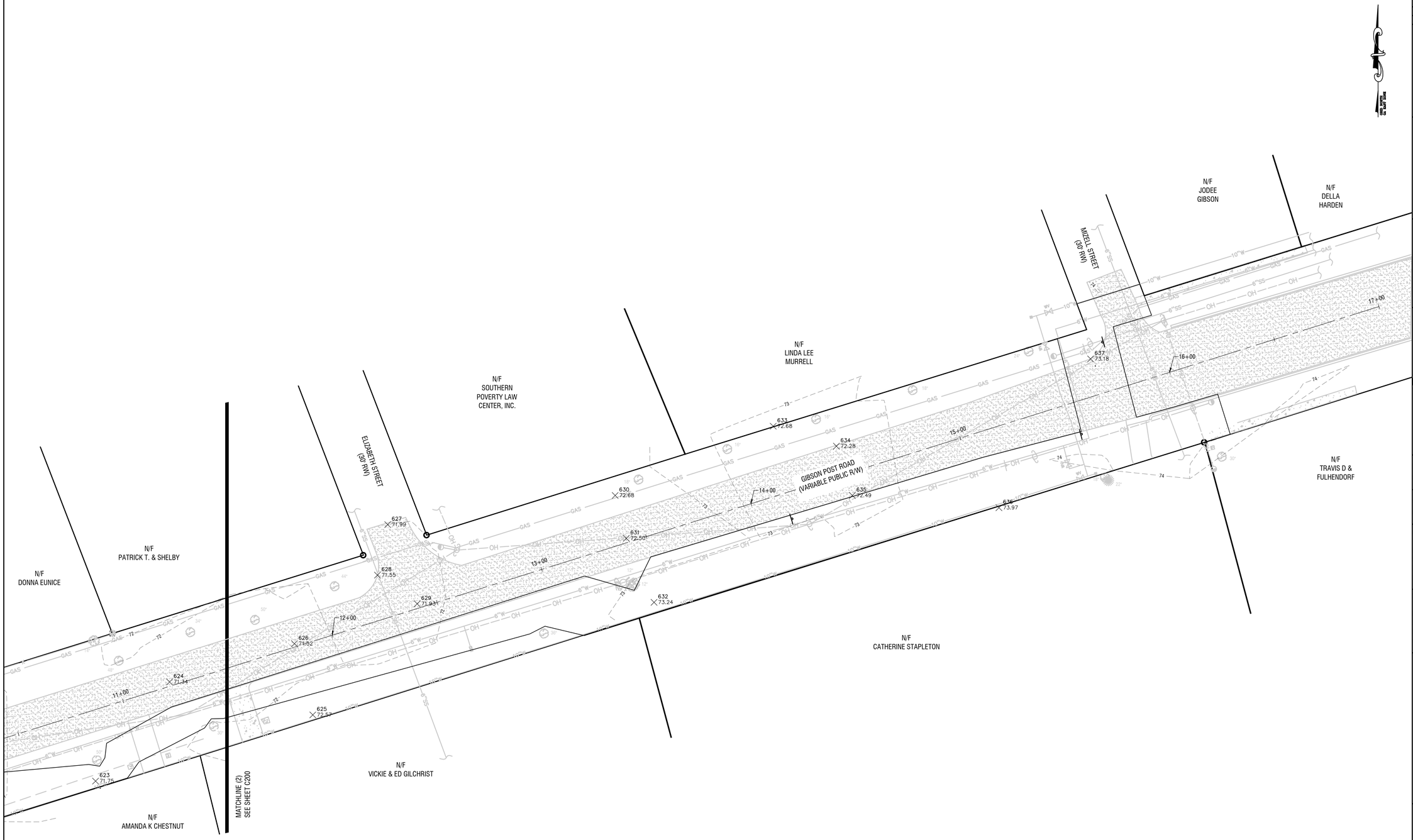
PRE BASIN

C700

SCALE BAR: 1"= 20 '
20 0 10 20 40 80

FILE NO: 2022-20

PLOT DATE: August 22, 2023



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GEORGIA REGISTERED No. 33507 PROFESSIONAL ENGINEER MARCUS E. SACK

DATE: 8/22/2023

M.E. SACK ENGINEERING 80

MUNICIPALITY:
CITY OF FOLKSTON

COUNTY:
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FOLKSTON SIDEWALK EXTENSION

PRE
BASIN

C701

SCALE BAR: 1"= 20 '
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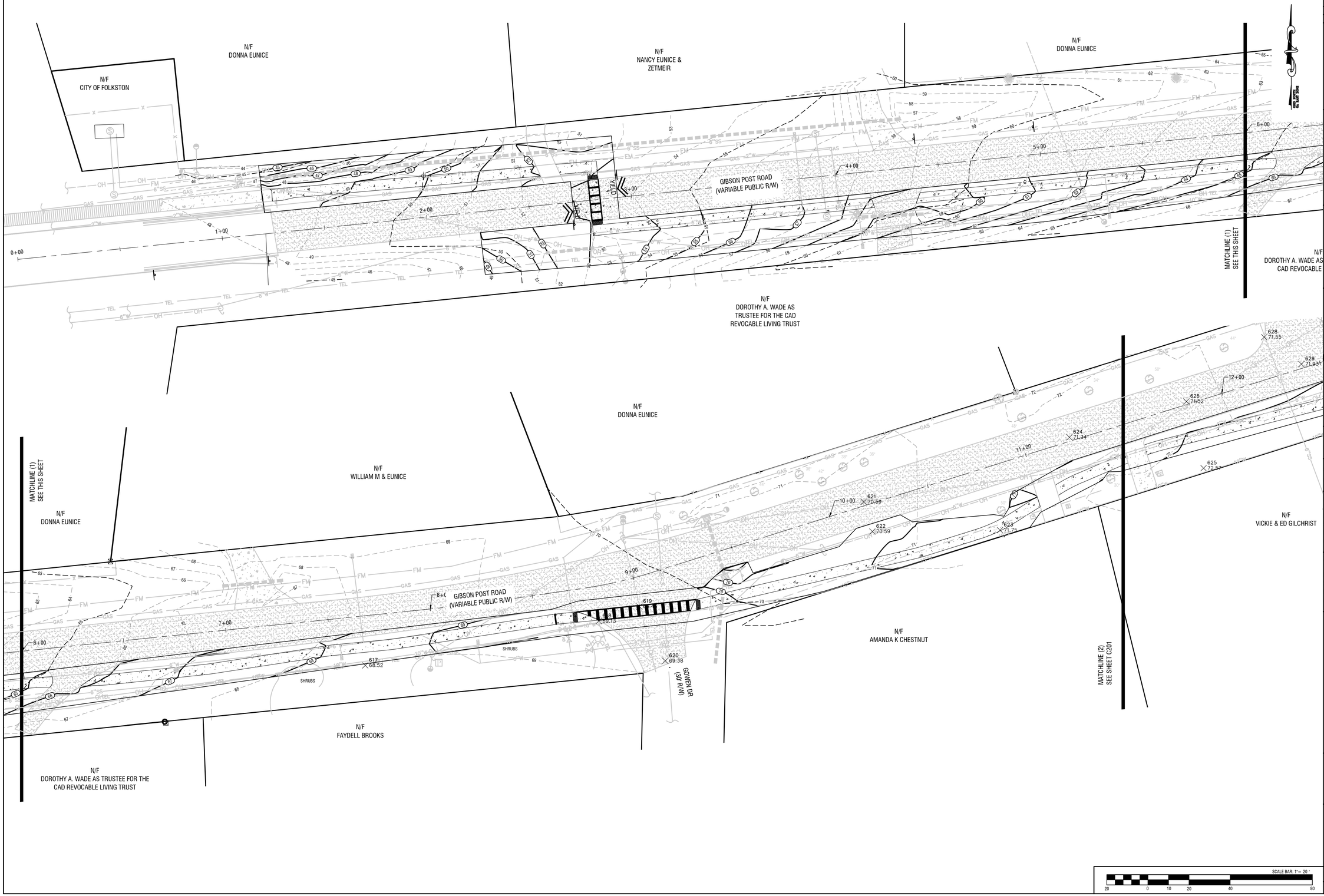
FILE NO: 2022-20

PLOT DATE: August 22, 2023



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GEORGIA REGISTERED No. 35507 PROFESSIONAL ENGINEER MARCUS E. SACK

DATE: 8/22/2023

M.E. SACK ENGINEERING 16 80

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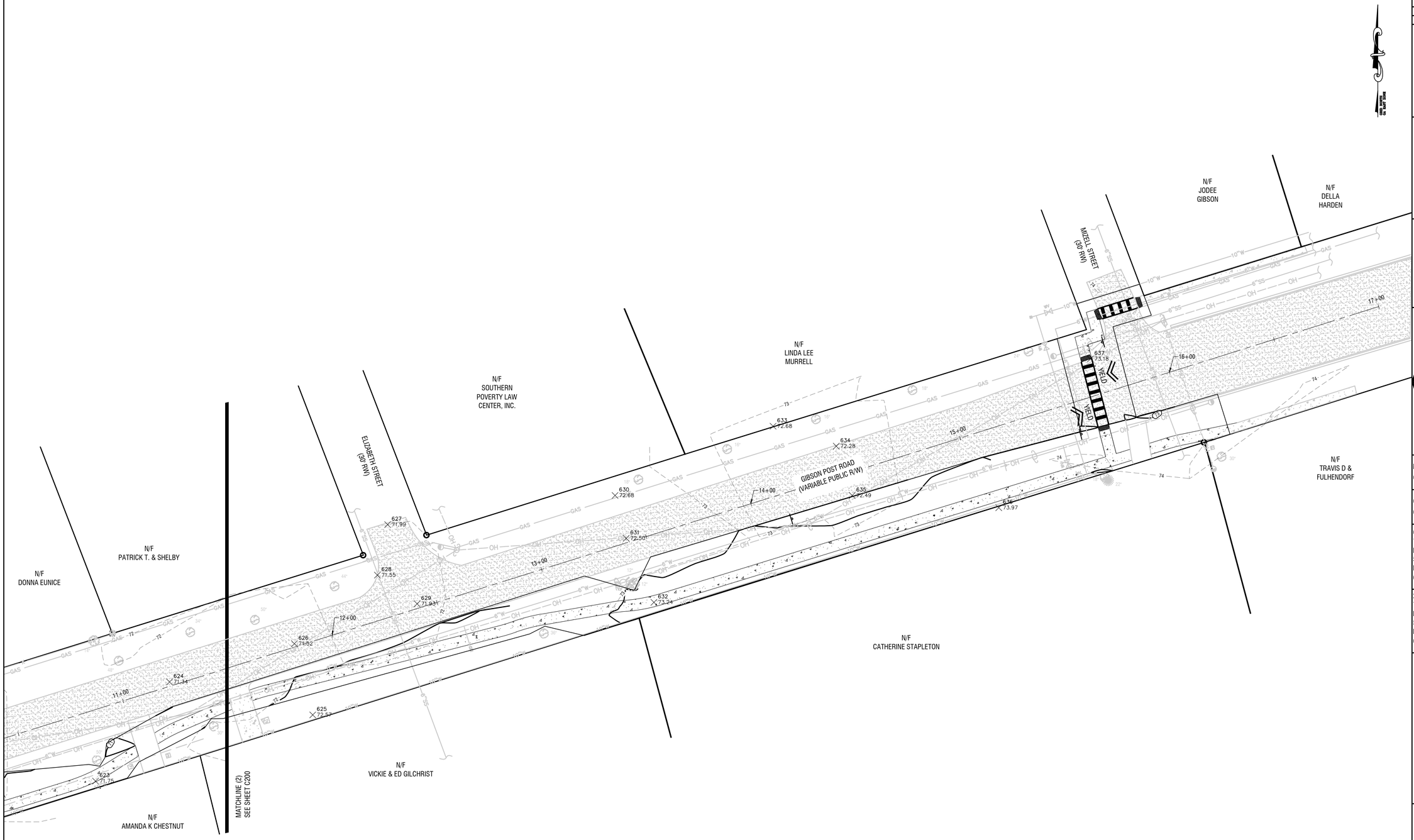
FOLKSTON SIDEWALK EXTENSION

POST BASIN

C800

FILE NO: 2022-20

PLOT DATE: August 22, 2023



SCALE BAR: 1"= 20 '
20 0 10 20 40 80

REVISIONS:

DESIGN PROFESSIONAL:
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GEORGIA REGISTERED No. 33247 PROFESSIONAL ENGINEER MARCUS E. SACK

DATE: 8/22/2023

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FOLKSTON SIDEWALK EXTENSION

POST BASIN

C801

FILE NO: 2022-20

PLOT DATE: August 22, 2023