



Know what's below.
Call before you dig.

24 HOUR CONTACT:
MR. KEVIN McENTIRE
PUBLIC WORKS DIRECTOR
(770) 548-0072

STREET IMPROVEMENTS FOR PETERS STREET - PHASE I CITY OF CALHOUN, GEORGIA

MAYOR: JAMES PALMER
COUNCIL POST 1: JACKIE PALAZZOLO
COUNCIL POST 2: AL EDWARDS
COUNCIL POST 3: MATT BARTON
COUNCIL POST 4: DAVID HAMMOND

ISSUED FOR BID: 15 JUN 2016

DRAWING INDEX

- C-1 TYPICAL ROADWAY SECTIONS
- C-2 PROJECT INDEX PLAN
- C-3 PLAN & PROFILE- BEGIN PHASE I TO STA 104+75
- C-4 PLAN & PROFILE- STA 104+75 TO STA 109+75
- C-5 PLAN & PROFILE- STA 109+75 TO STA 114+75
- C-6 PLAN & PROFILE- STA 114+75 TO STA 119+75
- C-7 PLAN & PROFILE- STA 119+75 TO STA 124+75
- C-8 PLAN & PROFILE- STA 124+75 TO STA 128+75
- C-9 PLAN & PROFILE- STA 128+75 TO END PHASE I
- C-10 ROUNDABOUT INTERSECTION
- C-11 STORM DRAIN - LINES 'A' THRU 'D'
- C-12 STORM DRAIN - LINE 'E'
- C-13 STORM DRAIN - LINE 'F'
- C-14 STORM DRAIN DETAILS
- C-15 EROSION CONTROL- STA 100+00 TO STA 109+75
- C-16 EROSION CONTROL- STA 109+75 TO STA 119+75
- C-17 EROSION CONTROL- STA 119+75 TO STA 128+75
- C-18 EROSION CONTROL- ROUNDABOUT INTERSECTION
- C-19 EROSION CONTROL DETAILS
- C-20 EROSION CONTROL NOTES
- C-21 CONSTRUCTION DETAILS
- C-22 CROSS SECTIONS- STA 100+50 TO STA 108+00
- C-23 CROSS SECTIONS- STA 108+50 TO STA 116+50
- C-24 CROSS SECTIONS- STA 117+00 TO STA 124+50
- C-25 CROSS SECTIONS- STA 125+00 TO STA 132+00
- C-26 CROSS SECTIONS- STA 132+50 TO STA 133+50

GENERAL NOTES

1. OWNER: CITY OF CALHOUN, GEORGIA
PUBLIC WORKS DEPARTMENT
MR. KEVIN McENTIRE, DIRECTOR
250 KIRBY ROAD
CALHOUN, GA 30701
(706) 602-6040
2. SITE DATA:
PROJECT AREA: 11.8 ACRES (3420 LF X 150 FT)
DISTURBED AREA: 6.0 ACRES
3. RIGHT-OF-WAY INFORMATION TAKEN FROM A SURVEY OF PETERS STREET PREPARED BY MASSEY SURVEYING, INC.
4. TOPOGRAPHIC INFORMATION BASED ON A GROUND RUN SURVEY BY MASSEY SURVEYING, INC. TRIBUTARY WATERSHED INFORMATION TAKEN FROM GIS INFORMATION.
5. EXISTING UTILITY LOCATIONS ARE SHOWN FOR INFORMATION PURPOSES ONLY. CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE EXACT LOCATIONS OF ALL UTILITIES AND FOR COORDINATING HIS OPERATIONS WITH ALL UTILITIES WHICH CONFLICT WITH HIS WORK.
6. STORM DRAIN LOCATIONS AND INVERTS ARE TO BE FIELD VERIFIED. DISCREPANCIES ARE TO BE ADDRESSED TO THE ENGINEER. STORM DRAIN GRADES ARE TO MATCH EXISTING WATERWISE GRADES UNLESS NOTED OTHERWISE.
7. STREAM BUFFERS ARE 25' FROM TOP OF BANK AND ARE TO REMAIN UNDISTURBED EXCEPT AS SPECIFICALLY NOTED HEREIN.
8. BASED ON GRAPHIC DETERMINATION, A PORTION OF THIS PROJECT LIES IN A FEMA/FIRM SPECIAL FLOOD HAZARD AREA (ZONE AE) PER COMMUNITY PANEL NO. 13129C01520, DATED SEPT. 26, 2008. APPROXIMATE LIMITS OF FLOOD ZONE STA 114+00 TO STA 118+00 (OUTSIDE TRAVEL LANES).
9. THE PROJECT CROSSES AN UNNAMED TRIBUTARY (NO. 1) OF COTCHALOGA CREEK (STATE WATERS) AT STATION 119+28 VIA AN EXISTING MULTI-BARREL BOX CULVERT. NO STREAM DISTURBANCE IS PLANNED OUTSIDE THE LIMITS OF THE CULVERT WALLS.

GRADING NOTES

1. PROJECT INTENT IS TO ELIMINATE ROADSIDE DITCHES AND REPLACE WITH A STORM DRAINAGE SYSTEM INCLUDING CURB & GUTTER, INLETS AND UNDERGROUND PIPES. EXISTING DRIVEWAY CULVERTS, ETC. ARE TO BE REMOVED AS A PART OF THE PROJECT AND DISPOSED OF OFFSITE AT AN APPROVED LOCATION.
2. UNDERCUTTING IS REQUIRED IN ALL AREAS WHERE SUBGRADE MATERIAL IS DETERMINED TO BE UNSUITABLE (BY A REGISTERED GEOTECHNICAL ENGINEER).
3. NO TREES, STUMPS, ROOTS, DEBRIS, AND OTHERWISE DELETERIOUS MATERIAL ARE TO BE BURIED OR DISPOSED OF ONSITE.
4. ALL SLOPES SHALL BE 3H:1V MAXIMUM UNLESS OTHERWISE SPECIFIED OR WITH WRITTEN APPROVAL FROM THE ENGINEER.
5. STRIP TOPSOIL AND VEGETATION FROM ALL WORK AREAS PRIOR TO GRADING. STOCKPILE IN DESIGNATED LOCATIONS. CONTRACTOR SHALL BACKFILL CURBS AND RESPREAD TOPSOIL ON COMPLETED AREAS TO BE GRASSED. ANY EXCESS SOIL SHALL BE DISPOSED OF ONSITE, SPREAD, SMOOTHED, ROCK-RAKED, AND GRASSED.
6. COMPACT FILL TO 95% STD PROCTOR DENSITY. COMPACT TOP 12" IN BUILDING AND PAVEMENT AREAS TO 100% STD PROCTOR DENSITY FOR AN AREA EXTENDING 10' BEYOND SLAB/POUT IN ALL DIRECTIONS.
7. PROJECT INTENT IS TO MINIMIZE GRADING TO ACCOMPLISH MINOR STREET WIDENING AND PEDESTRIAN FACILITIES. EXISTING STREET GRADE TO BE USED AS PRACTICAL. IN SOME LOCATIONS AS REQUIRED, LOWER GRADE BY REMOVING AND/OR PROFILE MILLING EXISTING PAVEMENTS OR RAISE GRADE BY FILLING WITH ASPHALTIC CONCRETE BASE TO ENSURE POSITIVE DRAINAGE AND A SMOOTH FINISHED ROADWAY.
8. CONTRACTOR SHALL REPAIR/RESTORE AREAS DAMAGED BY CONSTRUCTION EQUIPMENT TRAFFIC OR AREAS OF ACCUMULATED SEDIMENT. ANY RILLS OR SURFACE EROSION SHALL BE FILLED AND GRASSED TO STABILIZE.
9. ALL STORM DRAIN GRATES, MANHOLE COVERS, RINGS OR OTHER ACCESSORIES SHOWN ON DETAILS SHALL BE PROVIDED UNLESS SPECIFIED OTHERWISE.
10. ALL JUNCTION BOX MANHOLE COVERS, RINGS OR OTHER ACCESSORIES IN PAVED AREAS SHALL BE HEAVY DUTY TRAFFIC TYPE AND SHALL BE FLUSH WITH FINISHED PAVEMENT. SIMILAR COVERS IN UNPAVED AREAS SHALL BE SET 6" ABOVE GRADE. LABEL COVERS "STORM SEWER".
11. ALL STORM DRAIN STRUCTURE PENETRATIONS SHALL BE GROUDED BOTH INSIDE AND OUTSIDE AT INTERSECTING PIPES.
12. STORM STRUCTURES SHALL HAVE A SMOOTH MORTAR/GROUT INVERT POURED FORM INVERT IN TO INVERT OUT.
13. UNPAVED AREAS DISTURBED BY GRADING OPERATION SHALL RECEIVE 4"-6" OF TOPSOIL. CONTRACTOR SHALL ENSURE THAT ALL DISTURBED AREAS ARE PROTECTED BY A HEALTHY STAND OF GRASS PRIOR TO FINAL CLEANUP OF SEDIMENT CONTROL BMP'S.

EROSION CONTROL NARRATIVE:

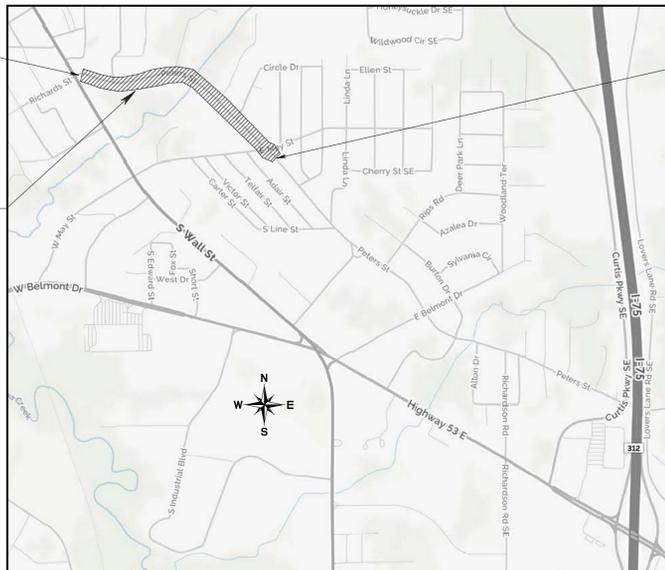
LOCATED JUST SOUTH OF DOWNTOWN CALHOUN, PETERS STREET IS A MINOR COLLECTOR ROAD WHICH SERVES SEVERAL RESIDENTIAL AREAS AS WELL AS THE NEW CALHOUN ELEMENTARY SCHOOL BUS ROUTES. A SEGMENT OF THE ROADWAY CROSSES AN UNNAMED TRIBUTARY (NO. 1) OF COTCHALOGA CREEK VIA AN EXISTING MULTI-BARREL BOX CULVERT WHICH IS NOT TO BE MODIFIED AS A PART OF THIS PROJECT. PHASE I OF THE STREET IMPROVEMENTS BEGIN AT THE EASTERN LIMITS OF PREVIOUS INTERSECTION IMPROVEMENTS AT US 41/SPR. AND CONTINUE EAST JUST BEYOND MAY STREET. A NEW ROUNDABOUT INTERSECTION IS PROPOSED AT MAY STREET TO ALLEVIATE SOME OF THE MISALIGNMENT OF THE INTERSECTION AND TO ACCOMMODATE INCREASED SCHOOL TRAFFIC ON EAST MAY STREET.

THE EXISTING STREET IS SOMEWHAT NARROW WITH MINIMAL SHOULDERS, ROADSIDE DITCHES AND NO PEDESTRIAN FACILITIES. THE PROPOSED ROAD IMPROVEMENTS INCLUDE AN ASYMMETRICAL WIDENING TO INSTALL CURB AND GUTTER WITH A SIDEWALK PROPOSED ON THE UN-WIDENED SIDE. SOME MINOR GRADE CHANGES WILL BE REQUIRED TO ENSURE PROPER DRAINAGE OF THE STREET.

EROSION CONTROL FOR THE PROJECT IS PREDOMINANTLY VEGETATIVE. MULCH, TEMPORARY GRASSING AND PERMANENT GRASSING ARE PROPOSED AS APPROPRIATE DURING AND IMMEDIATELY FOLLOWING GRADING. SEDIMENT CONTROLS INCLUDE BUT ARE NOT LIMITED TO PERIMETER SEDIMENT BARRIERS AND CULVERT OUTLET PROTECTION. DUE TO THE LINEAR NATURE OF THE PROJECT AND THE PROXIMITY TO RESIDENCES, TYPICAL SEDIMENT STORAGE IS NOT RECOMMENDED FOR THIS PROJECT.

BEGIN PHASE I
STA 99+15
N34.4906°
W84.9469°

PROJECT AREA



END PHASE I
STA 133+34
N34.4866°
W84.9372°

PREPARED FOR:

CITY OF CALHOUN, GEORGIA
PUBLIC WORKS DEPARTMENT
MR. KEVIN McENTIRE, DIRECTOR
250 KIRBY ROAD
CALHOUN, GA 30701
(706) 602-6040

I CERTIFY THAT THE PERMITEE'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 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 NUMBER GAR100002.

Mark R. Shamblin
MARK R. SHAMBLIN, P.E., REGISTRATION NO. 23794
GEORGIA LEVEL II CERTIFICATION NO. 11395

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 SUPERVISION.

Mark R. Shamblin
MARK R. SHAMBLIN, P.E., REGISTRATION NO. 23794
GEORGIA LEVEL II CERTIFICATION NO. 11395



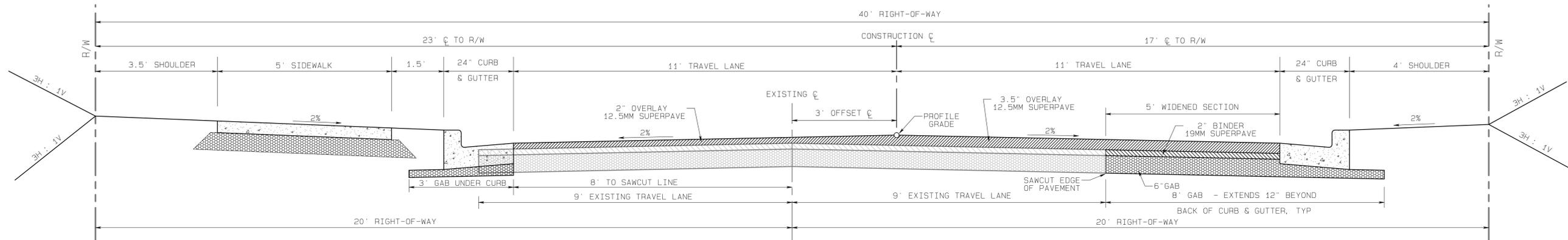
415 Shorter Avenue
Rome, Georgia 30165
(770) 548-7929
mshamblin@civilsouth.com



EROSION AND SEDIMENT CONTROL NOTES

1. PROVISIONS TO PREVENT EROSION OF SOIL FROM THE SITE SHALL CONFORM TO THE REQUIREMENTS OF THE CITY OF CALHOUN (LIA) AND THE GEORGIA MANUAL ON EROSION AND SEDIMENT CONTROL, 2011 EDITION.
2. PRIOR TO ANY OTHER CONSTRUCTION, A STABILIZED CONSTRUCTION ENTRANCE SHALL BE CONSTRUCTED AT EACH ENTRY TO OR EXIT FROM THE SITE.
3. THE CONSTRUCTION EXITS 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 STONE. ALL MATERIALS SPILLED, DROPPED, WASTED, OR TRACKED BY VEHICLES OFFSITE ONTO A PUBLIC ROADWAY MUST BE REMOVED IMMEDIATELY.
4. SEDIMENT AND EROSION CONTROL BMP'S, STORM DRAINAGE FACILITIES, AND DETENTION BASINS SHALL BE INSTALLED PRIOR TO ANY OTHER CONSTRUCTION.
5. EROSION, SEDIMENTATION AND POLLUTION CONTROL DESIGN ENGINEER SHALL BE CONTACTED WHEN CONSTRUCTION ACTIVITY COMMENCES AND WILL INSPECT THE INSTALLATION OF BMP'S WITHIN 7 DAYS.
6. EROSION CONTROL BMP'S SHALL BE INSPECTED WEEKLY AND AFTER EACH RAINFALL AND REPLACED OR REPAIRED AS NECESSARY. CONSTRUCTION EXITS AND ANY PETROLEUM PRODUCT STORAGE AREAS SHALL BE INSPECTED EACH DAY THERE IS CONSTRUCTION ACTIVITY ON THE SITE.
7. SILT FENCES SHALL BE LOCATED ON SITE TO PREVENT SEDIMENT AND EROSION FROM LEAVING PROPERTY LIMITS.
8. ADDITIONAL EROSION CONTROL MEASURES WILL BE EMPLOYED BY CONTRACTOR WHERE DEEMED NECESSARY BY ACTUAL SITE CONDITIONS.
9. THE LOCATION OF SOME BMP'S MAY HAVE TO BE ALTERED FROM THAT SHOWN ON THE APPROVED PLANS IF DRAINAGE PATTERNS DURING CONSTRUCTION ARE DIFFERENT FROM THE FINAL 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 ENGINEER IMMEDIATELY.
10. SILT BARRIERS TO BE PLACED AT DOWNSTREAM TOE OF ALL CUT AND FILL SLOPES.
11. ALL GRADED AREAS SHALL BE STABILIZED IMMEDIATELY WITH A TEMPORARY FAST-GROWING COVER AND/OR MULCH. DISTURBED AREAS NOT TO BE GRADED FOR 14 CONSECUTIVE DAYS SHALL BE SEEDED WITH THE TEMPORARY SEED MIXTURE.
12. WHEN SOIL IS STOCKPILED OR TRENCH EXCAVATION IS STOCKPILED BESIDE THE TRENCH FOR MORE THAN 24 HOURS, OR WHEN RAINFALL IS ANTICIPATED, SILT FENCES WILL BE INSTALLED AROUND THE LIMITS OF THE STOCKPILE TO CONTROL SEDIMENT.
13. SEDIMENT TRAPS WILL BE INSTALLED AT EACH NEW INLET IMMEDIATELY UPON INSTALLATION OF THE BOX. THESE WILL BE MAINTAINED AS REQUIRED IN ACCORDANCE WITH THE PLANS.
14. STRIPPING OF VEGETATION, REGRADING, AND OTHER DEVELOPMENT ACTIVITIES SHALL BE CONDUCTED IN SUCH A MANNER TO MINIMIZE EROSION.
15. CUT AND FILL OPERATIONS SHALL BE KEPT TO A MINIMUM.
16. WHENEVER FEASIBLE, NATURAL VEGETATION SHALL BE RETAINED, PROTECTED, AND SUPPLEMENTED.
17. PERMANENT VEGETATION AND STRUCTURAL EROSION CONTROL MEASURES SHALL BE INSTALLED AS SOON AS PRACTICABLE.
18. NO CONSTRUCTION ACTIVITIES SHALL BE CONDUCTED WITHIN A 25 FOOT BUFFER ALONG THE BANKS OF ALL STATE WATERS, AS MEASURED HORIZONTALLY FROM THE POINT WHERE VEGETATION HAS BEEN WRESTED BY NORMAL STREAM FLOW OR WAVE ACTION, EXCEPT WHERE THE DIRECTOR OF EPD HAS GRANTED A VARIANCE OR WHERE A ROADWAY STRUCTURE OR A ROADWAY STRUCTURE MUST BE CONSTRUCTED.
19. NO CONSTRUCTION ACTIVITIES SHALL BE CONDUCTED WITHIN A 50 FOOT BUFFER ALONG THE BANKS OF ALL STATE WATERS CLASSIFIED AS TROUT STREAMS, AS MEASURED HORIZONTALLY FROM THE POINT WHERE VEGETATION HAS BEEN WRESTED BY NORMAL STREAM FLOW OR WAVE ACTION, EXCEPT WHERE THE DIRECTOR OF EPD HAS GRANTED A VARIANCE OR WHERE A ROADWAY DRAINAGE STRUCTURE MUST BE CONSTRUCTED.
20. EXCEPT AS PROVIDED ABOVE, NO CONSTRUCTION ACTIVITIES SHALL BE CONDUCTED WITHIN A BUFFER AND A BUFFER SHALL REMAIN IN ITS NATURAL UNDISTURBED STATE OF VEGETATION UNTIL ALL LAND DISTURBING ACTIVITIES ON THE CONSTRUCTION SITE ARE COMPLETED. AFTER FINAL STABILIZATION AND UPON THE SUBMITTAL OF A NOTICE OF TERMINATION, A BUFFER MAY BE THINNED OR TRIMMED OF VEGETATION AS LONG AS A PROTECTIVE VEGETATIVE COVER REMAINS TO PROTECT WATER QUALITY AND AQUATIC HABITAT AND A NATURAL CANYON IS LEFT IN SUFFICIENT QUANTITY TO KEEP SHADE ON THE STREAM BED.
21. THE CONTRACTOR SHALL ADHERE TO ALL TERMS AND CONDITIONS AS OUTLINED IN THE GENERAL NPDES PERMIT NO. GAR100002 EFFECTIVE 24 SEPTEMBER 2013 FOR STORMWATER DISCHARGE ASSOCIATED WITH CONSTRUCTION ACTIVITIES WITHIN INFRASTRUCTURE PROJECTS.
22. 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.
23. THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION CONTROL MEASURES AND PRACTICES PRIOR TO LAND DISTURBING ACTIVITIES.
24. ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING.
25. AMENDMENTS/REVISIONS TO THE ESSCP PLAN WHICH HAVE A SIGNIFICANT EFFECT ON BMP'S WITH A HYDRAULIC COMPONENT MUST BE CERTIFIED BY THE DESIGN PROFESSIONAL.

PETERS STREET - SPLIT PHASE I



TYPICAL WIDENED SECTION
NOT TO SCALE

24 HOUR CONTACT:
MR. KEVIN McENTIRE
PUBLIC WORKS DIRECTOR
(770) 548-0072



Know what's below.
Call before you dig.

LEGEND

- Stream / Water
- - - - - Fence Line
- - - - - Wood Fence
- - - - - Guardrail
- ⊕ Sign
- ⊕ Benchmark
- ⊕ Utility Pole
- ⊕ Valve
- ⊕ Fire Hydrant
- ⊕ Single Wing C.B.
- ⊕ Double Wing C.B.
- ⊕ Drop (Grate) Inlet
- ⊕ Area Inlet
- ⊕ Combination Inlet
- ⊕ Headwall
- ⊕ Flared End Sec'n
- ⊕ Storm Drain
- ⊕ Manhole / J.B.
- ⊕ Sanitary Sewer
- ⊕ Marsh / Wetland

REVISIONS:

15 JUN 2016	ISSUED FOR BID
-------------	----------------

CIVIL SOUTH INCORPORATED
Civil & Structural Engineers
415 Shorter Avenue
Rome, Georgia 30165
(770) 548-7929

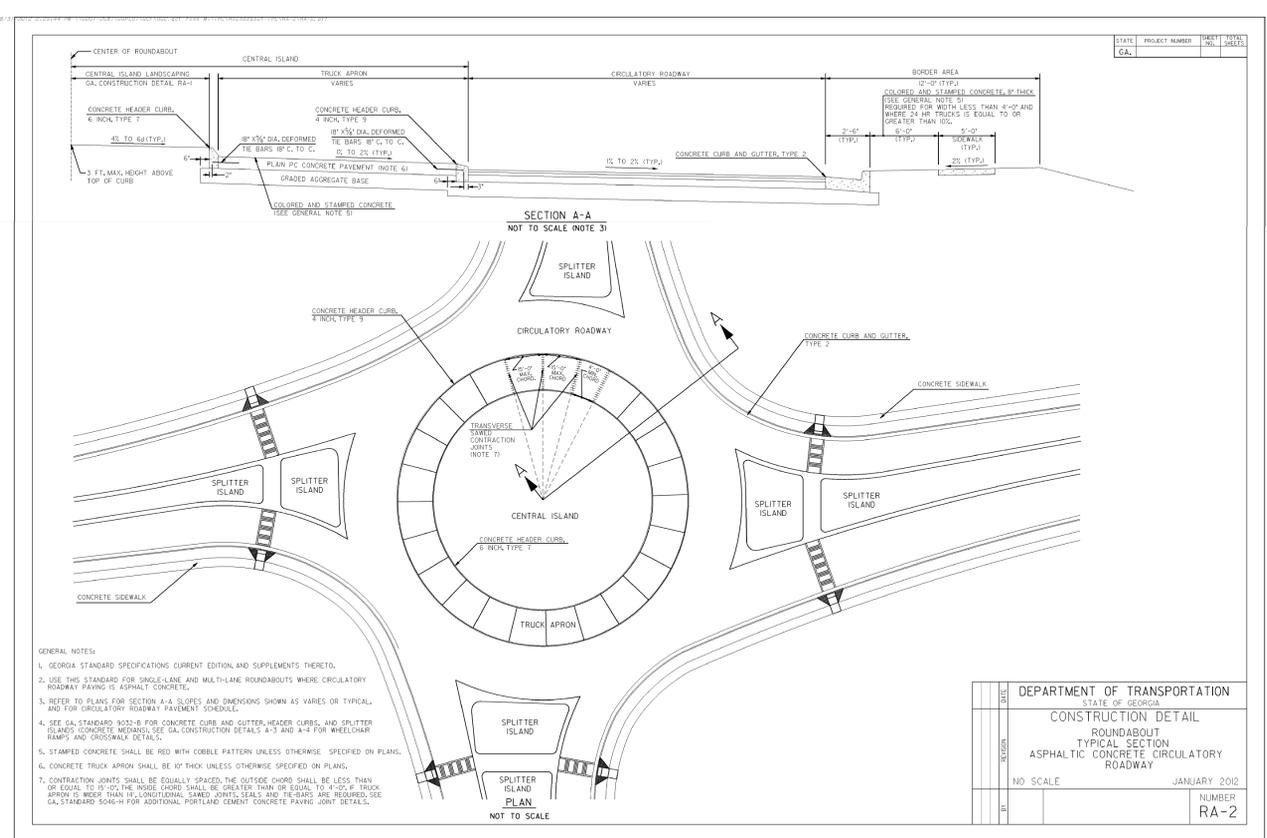
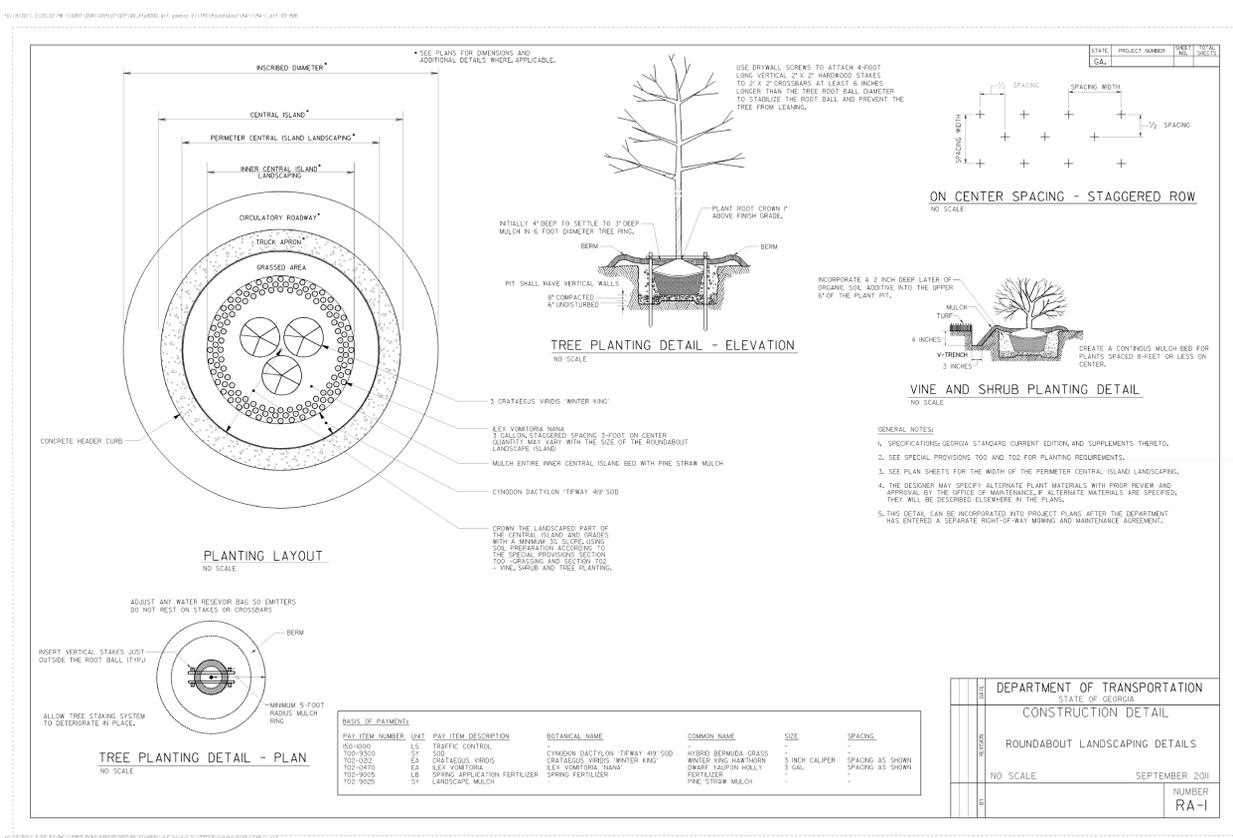
REGISTERED PROFESSIONAL ENGINEER
MARK R SHAMBLIN
LEVEL II GSNCC # 11395

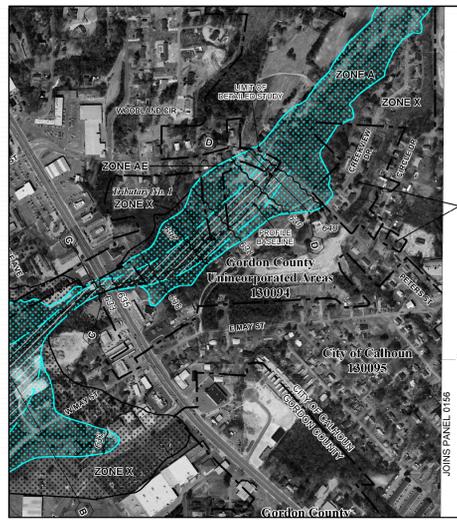
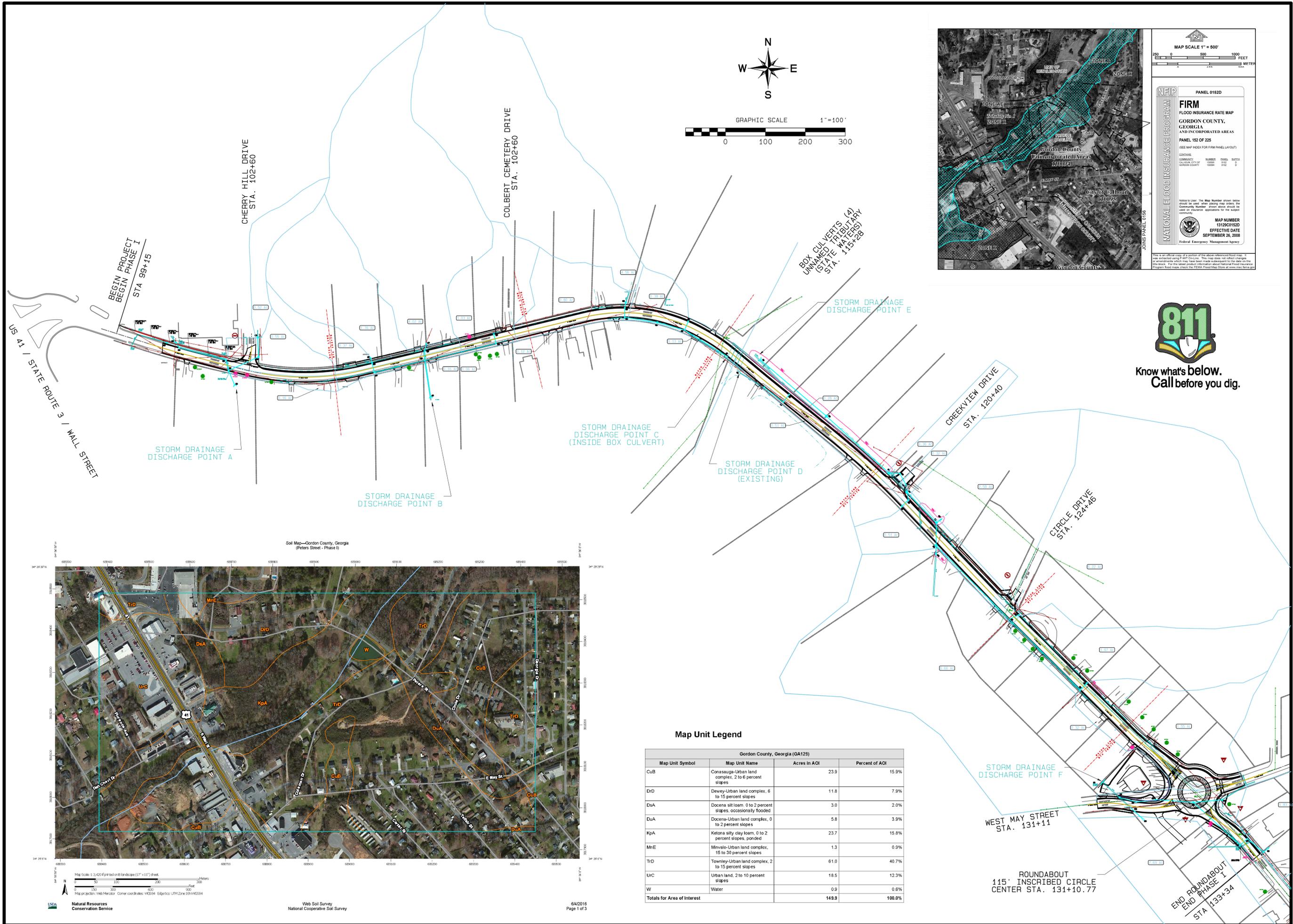
DATE	15 JUN 2016
SCALE	NOT TO SCALE
DRAWN	MS
CHECKED	MS
PROJECT NO.	2045

CITY OF CALHOUN
LION OF THE PINNACLES

STREET IMPROVEMENTS
PETERS STREET
PHASE I
CITY OF CALHOUN, GA

TYPICAL SECTION AND DETAILS
C-01





MAP SCALE 1" = 500'

0 500 1000 FEET

0 500 1000 METERS

FIRM
FLOOD INSURANCE RATE MAP
GORDON COUNTY, GEORGIA
AND INCORPORATED AREAS
PANEL 152 OF 225
(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:
COMMUNITY: GORDON COUNTY
FIRM NUMBER: 13129C0152D
EFFECTIVE DATE: SEPTEMBER 26, 2008

MAP NUMBER: 13129C0152D
EFFECTIVE DATE: SEPTEMBER 26, 2008

Federal Emergency Management Agency

This is an official copy of a portion of the above referenced flood map. It is not intended to be used for any purpose other than the one for which it was prepared. The user should not rely on this map for any other purpose. For the latest product information about National Flood Insurance Program flood maps, check the FEMA Flood Map Store at www.fema.gov.

- LEGEND**
- Stream / Water
 - - - - - Fence Line
 - - - - - Wood Fence
 - - - - - Guardrail
 - ⊕ Sign
 - ⊕ Benchmark
 - ⊕ Utility Pole
 - ⊕ Valve
 - ⊕ Fire Hydrant
 - ⊕ Single Wing C.B.
 - ⊕ Double Wing C.B.
 - ⊕ Drop (Grate) Inlet
 - ⊕ Area Inlet
 - ⊕ Combination Inlet
 - ⊕ Headwall
 - ⊕ Flared End Sec'n
 - ⊕ Storm Drain
 - ⊕ Manhole / J.B.
 - ⊕ Sanitary Sewer
 - ⊕ Marsh / Wetland



Know what's below.
Call before you dig.

REVISIONS:

15 JUN 2016	ISSUED FOR BID
-------------	----------------

CIVIL SOUTH
INCORPORATED
Civil & Structural Engineers
415 Shorter Avenue
Rome, Georgia 30165
(770) 549-7929

GEORGIA
REGISTERED
PROFESSIONAL
ENGINEER
MARK R. SHAMBLIN
LEVEL II GSNCC # 11395

DATE	15 JUN 2016
SCALE	1" = 100'
DRAWN	MS
CHECKED	MS
PROJECT NO.	2045

CITY OF CALHOUN
LINDA W. THE PROUDFEE

STREET IMPROVEMENTS
PETERS STREET
PHASE I
CITY OF CALHOUN, GA

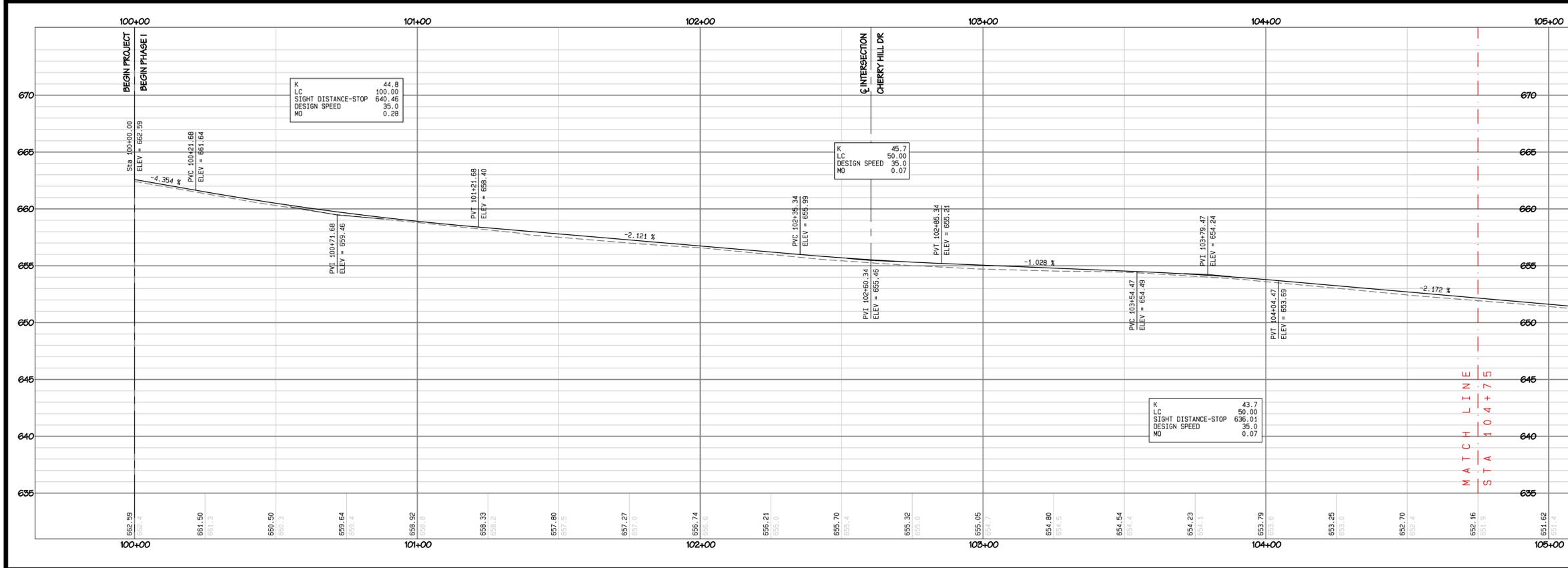
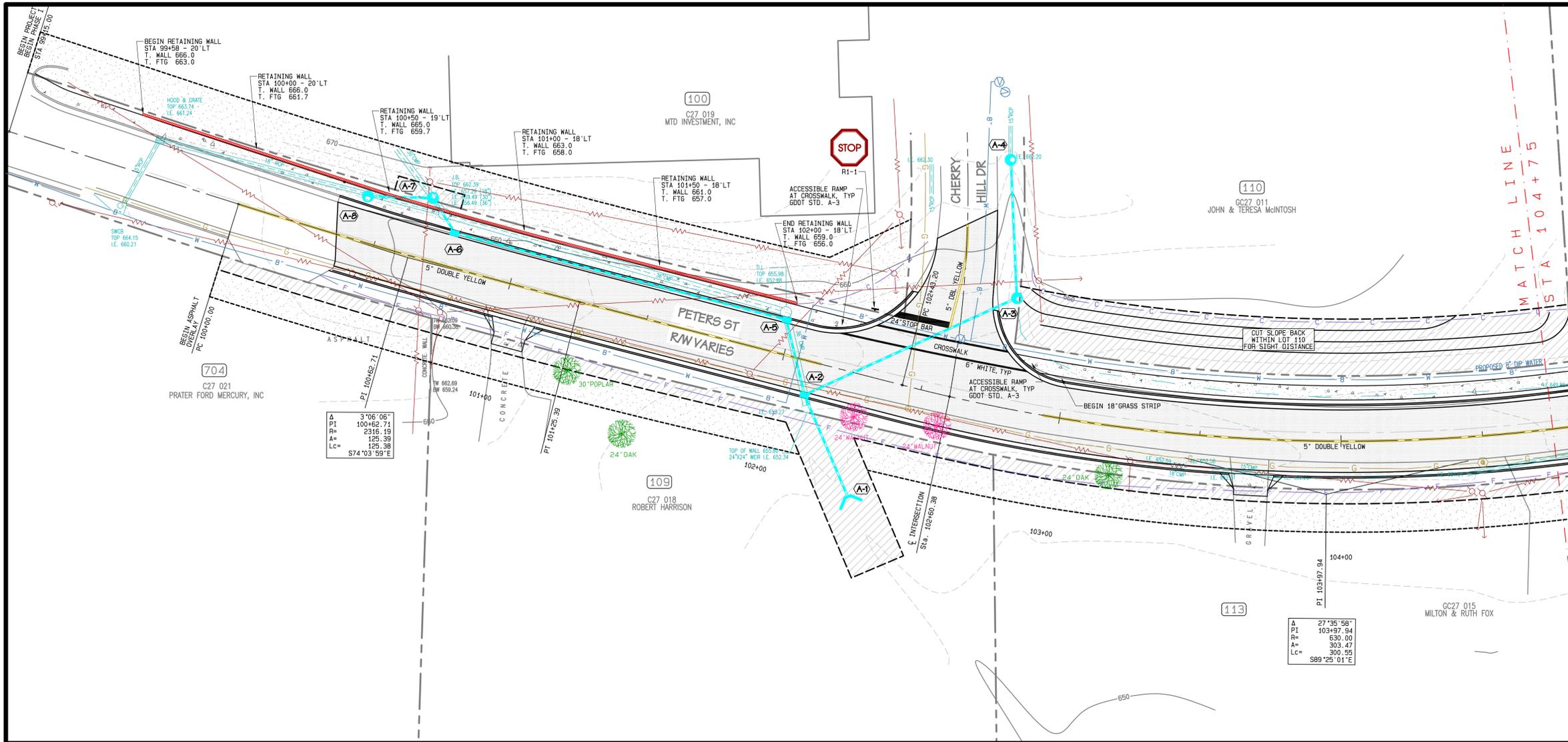
PHASE I
PROJECT MAP

C-02



Map Unit Legend

Gordon County, Georgia (GA129)			
Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
CuB	Conasauga-Urban land complex, 2 to 6 percent slopes	23.9	15.9%
DrD	Dewey-Urban land complex, 6 to 15 percent slopes	11.8	7.9%
DsA	Docena silt loam, 0 to 2 percent slopes, occasionally flooded	3.0	2.0%
DuA	Docena-Urban land complex, 0 to 2 percent slopes	5.8	3.9%
KpA	Ketona silty clay loam, 0 to 2 percent slopes, ponded	23.7	15.8%
MnE	Minvelo-Urban land complex, 15 to 30 percent slopes	1.3	0.9%
TrD	Townley-Urban land complex, 2 to 15 percent slopes	61.0	40.7%
UjC	Urban land, 2 to 10 percent slopes	18.5	12.3%
W	Water	0.9	0.6%
Totals for Area of Interest		149.9	100.0%



Know what's below.
Call before you dig.

- REQUIRED RIGHT-OF-WAY
- PERMANENT EASEMENT
- CONSTRUCTION EASEMENT
- EXISTING TREE TO REMAIN
- EXISTING TREE TO BE REMOVED
- TREES/SCRUB AREA TO BE CLEARED

- LEGEND**
- Stream / Water
 - Fence Line
 - Wood Fence
 - Guardrail
 - Sign
 - Benchmark
 - Utility Pole
 - Valve
 - Fire Hydrant
 - Single Wing C.B.
 - Double Wing C.B.
 - Drop (Grate) Inlet
 - Area Inlet
 - Combination Inlet
 - Headwall
 - Flared End Sec'n
 - Storm Drain
 - Manhole / J.B.
 - Sanitary Sewer
 - Marsh / Wetland

REVISIONS:
15 JUN 2016: ISSUED FOR BID

CIVIL SOUTH INCORPORATED
Civil & Structural Engineers
415 Shorter Avenue
Rome, Georgia 30165
(770) 548-7929



DATE	15 JUN 2016
SCALE	1" = 20'
DRAWN	MS
CHECKED	MS
PROJECT NO.	2045

24 HOUR CONTACT:
MR. KEVIN McENTIRE
PUBLIC WORKS DIRECTOR
(770) 548-0072

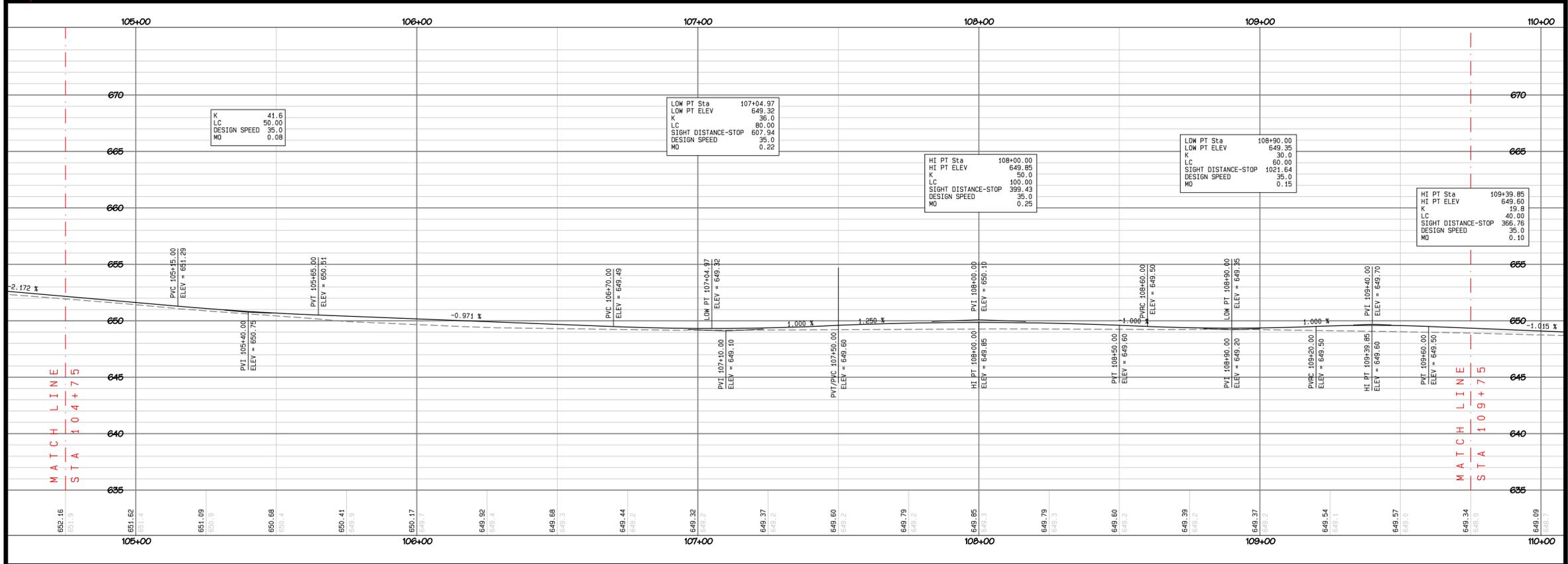
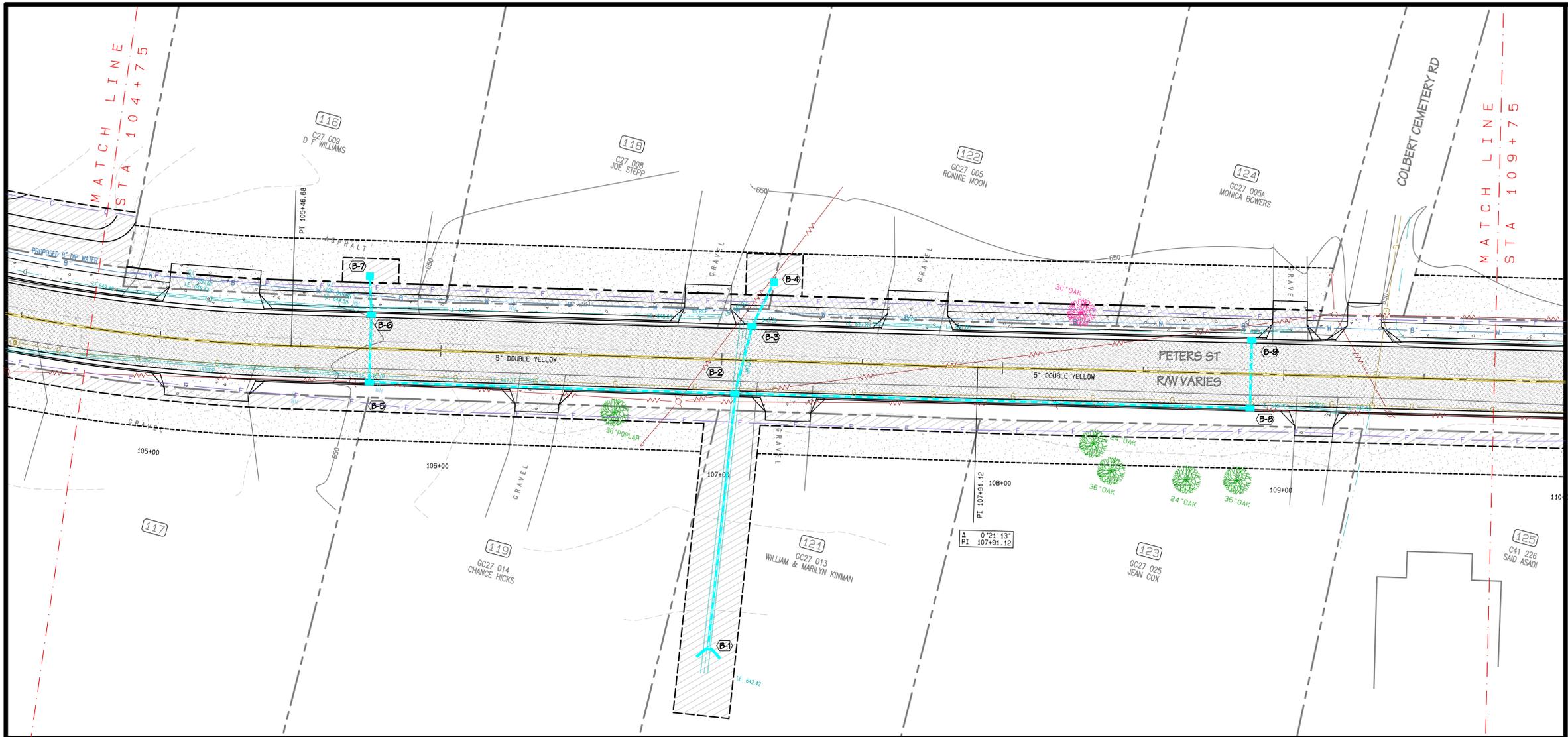


CITY OF CALHOUN
LINDA OF THE PHOENIX

STREET IMPROVEMENTS
PETERS STREET
PHASE I
CITY OF CALHOUN, GA

PLAN & PROFILE
BEGIN PHASE I
TO STA 104+75

C-03



Know what's below.
Call before you dig.

- REQUIRED RIGHT-OF-WAY
- PERMANENT EASEMENT
- CONSTRUCTION EASEMENT
- EXISTING TREE TO REMAIN
- EXISTING TREE TO BE REMOVED
- TREES/SCRUB AREA TO BE CLEARED

- LEGEND**
- Stream / Water
 - Fence Line
 - Wood Fence
 - Guardrail
 - Sign
 - Benchmark
 - Utility Pole
 - Valve
 - Fire Hydrant
 - Single Wing C.B.
 - Double Wing C.B.
 - Drop (Grate) Inlet
 - Area Inlet
 - Combination Inlet
 - Headwall
 - Flared End Sec'n
 - Storm Drain
 - Manhole / J.B.
 - Sanitary Sewer
 - Marsh / Wetland

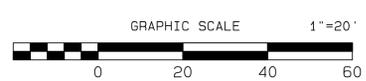
REVISIONS:
15 JUN 2016: ISSUED FOR BID

CIVIL SOUTH INCORPORATED
Civil & Structural Engineers
415 Shorter Avenue
Rome, Georgia 30165
(770) 548-7929

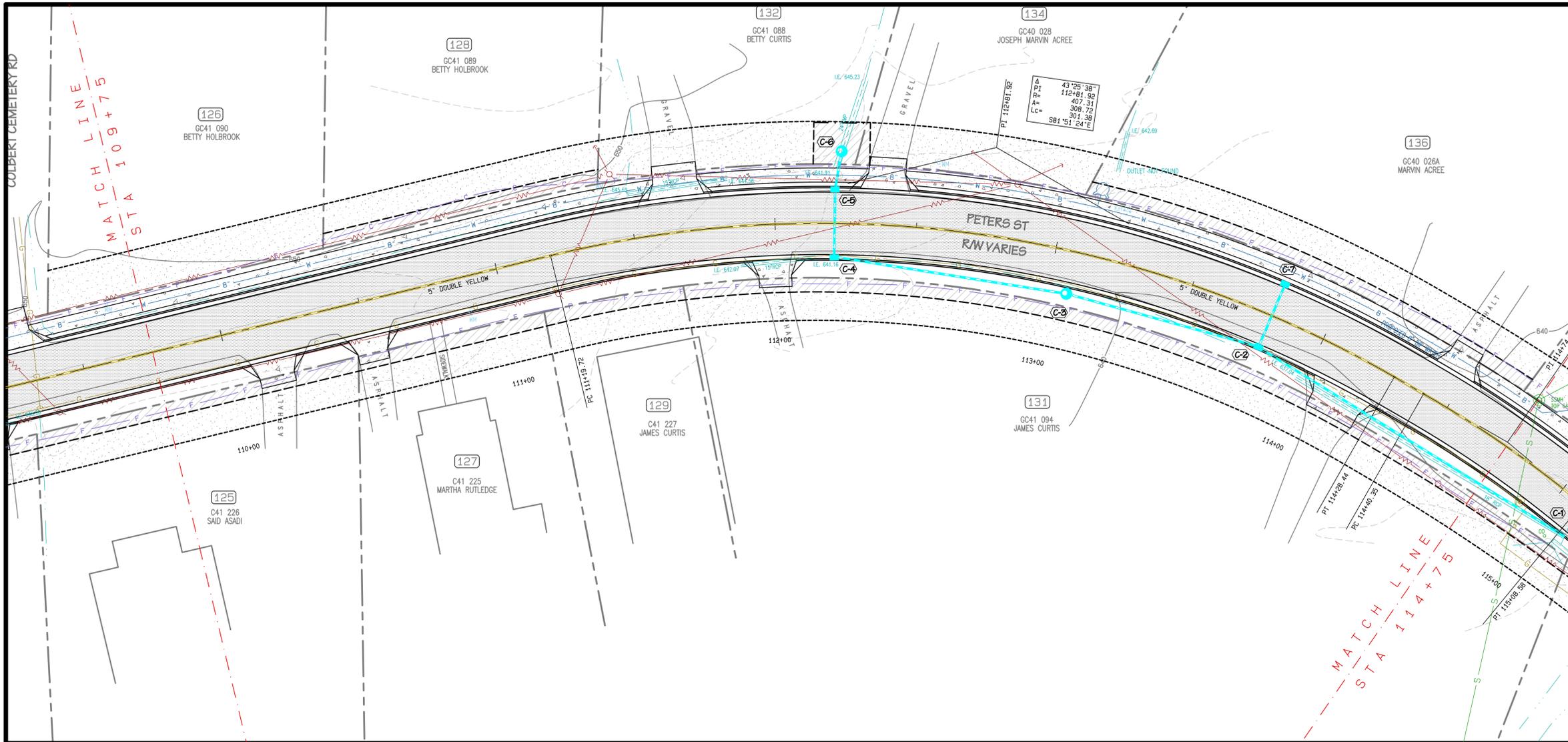


DATE	15 JUN 2016
SCALE	1" = 20'
DRAWN	MS
CHECKED	MS
PROJECT NO.	2045

24 HOUR CONTACT:
MR. KEVIN McENTIRE
PUBLIC WORKS DIRECTOR
(770) 548-0072



CITY OF CALHOUN
LION OF THE ENHANCE
STREET IMPROVEMENTS
PETERS STREET
PHASE I
CITY OF CALHOUN, GA
PLAN & PROFILE
STA 104+75 TO
STA 109+75
C-04



Know what's below.
Call before you dig.

- REQUIRED RIGHT-OF-WAY
- PERMANENT EASEMENT
- CONSTRUCTION EASEMENT
- EXISTING TREE TO REMAIN
- EXISTING TREE TO BE REMOVED
- TREES/SCRUB AREA TO BE CLEARED

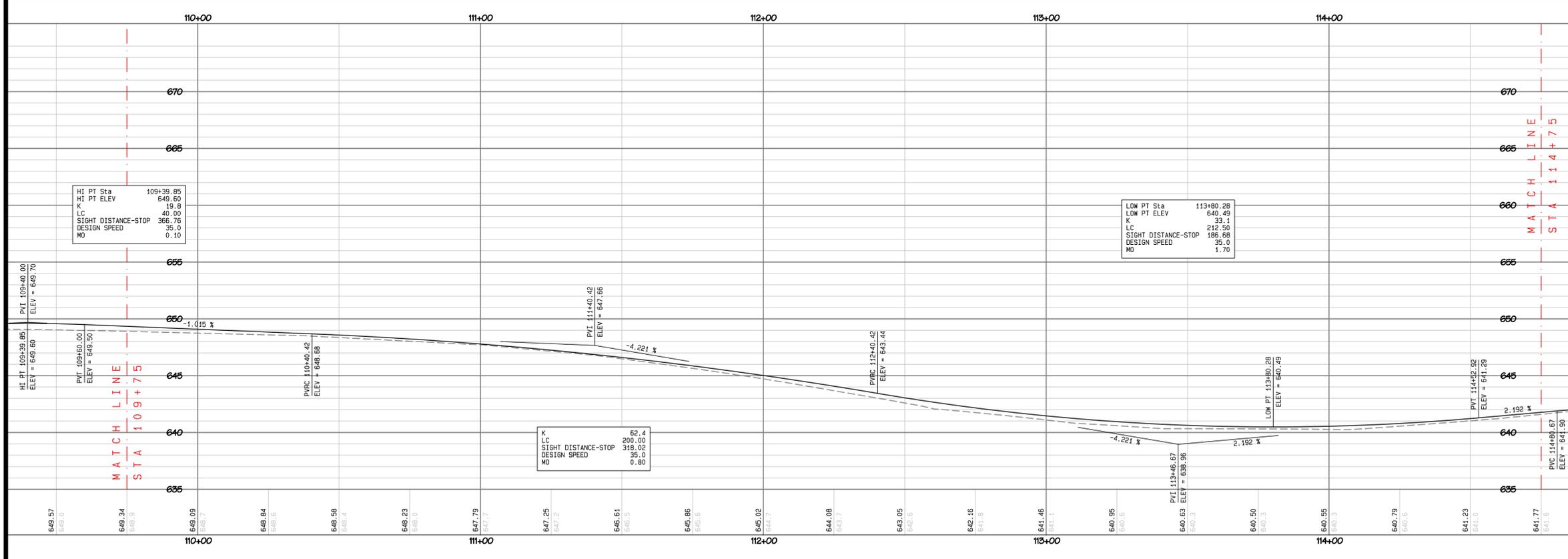
- LEGEND**
- Stream / Water
 - Fence Line
 - Wood Fence
 - Guardrail
 - Sign
 - Benchmark
 - Utility Pole
 - Valve
 - Fire Hydrant
 - Single Wing C.B.
 - Double Wing C.B.
 - Drop (Grate) Inlet
 - Area Inlet
 - Combination Inlet
 - Headwall
 - Flared End Sec'n
 - Storm Drain
 - Manhole / J.B.
 - Sanitary Sewer
 - Marsh / Wetland

REVISIONS:
15 JUN 2016: ISSUED FOR BID

CIVIL SOUTH INCORPORATED
Civil & Structural Engineers
415 Shorter Avenue
Rome, Georgia 30165
(770) 548-7929



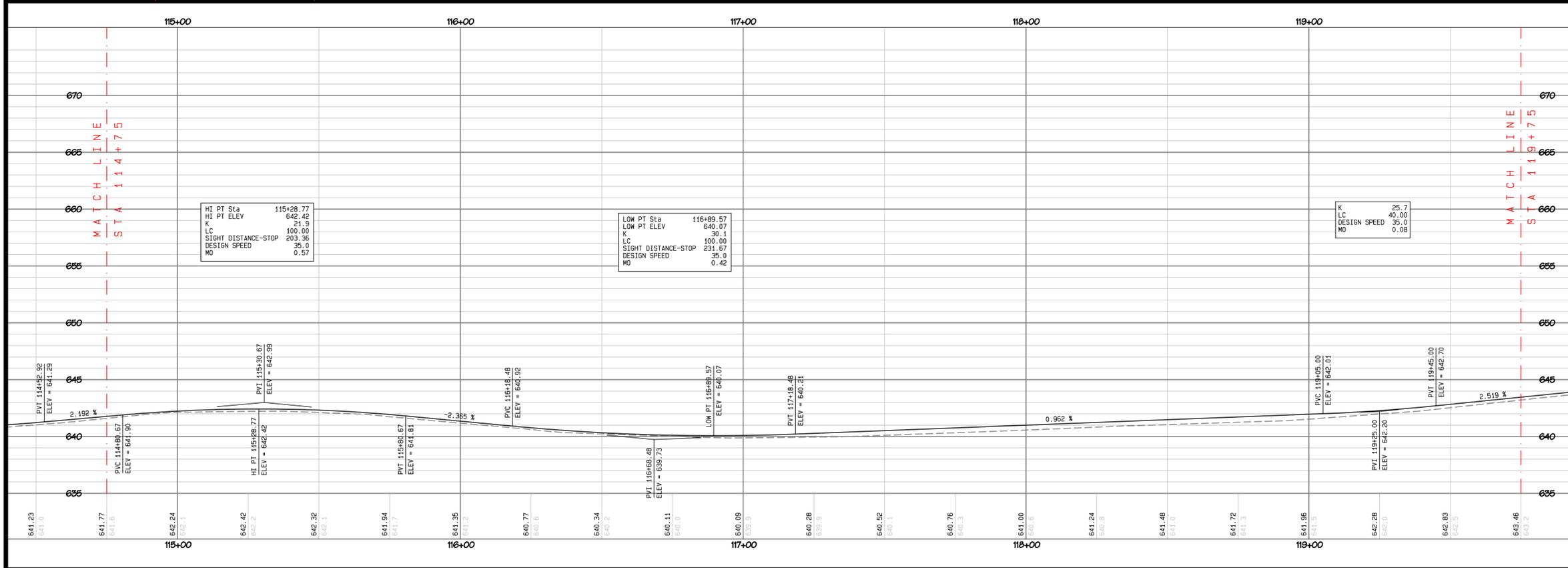
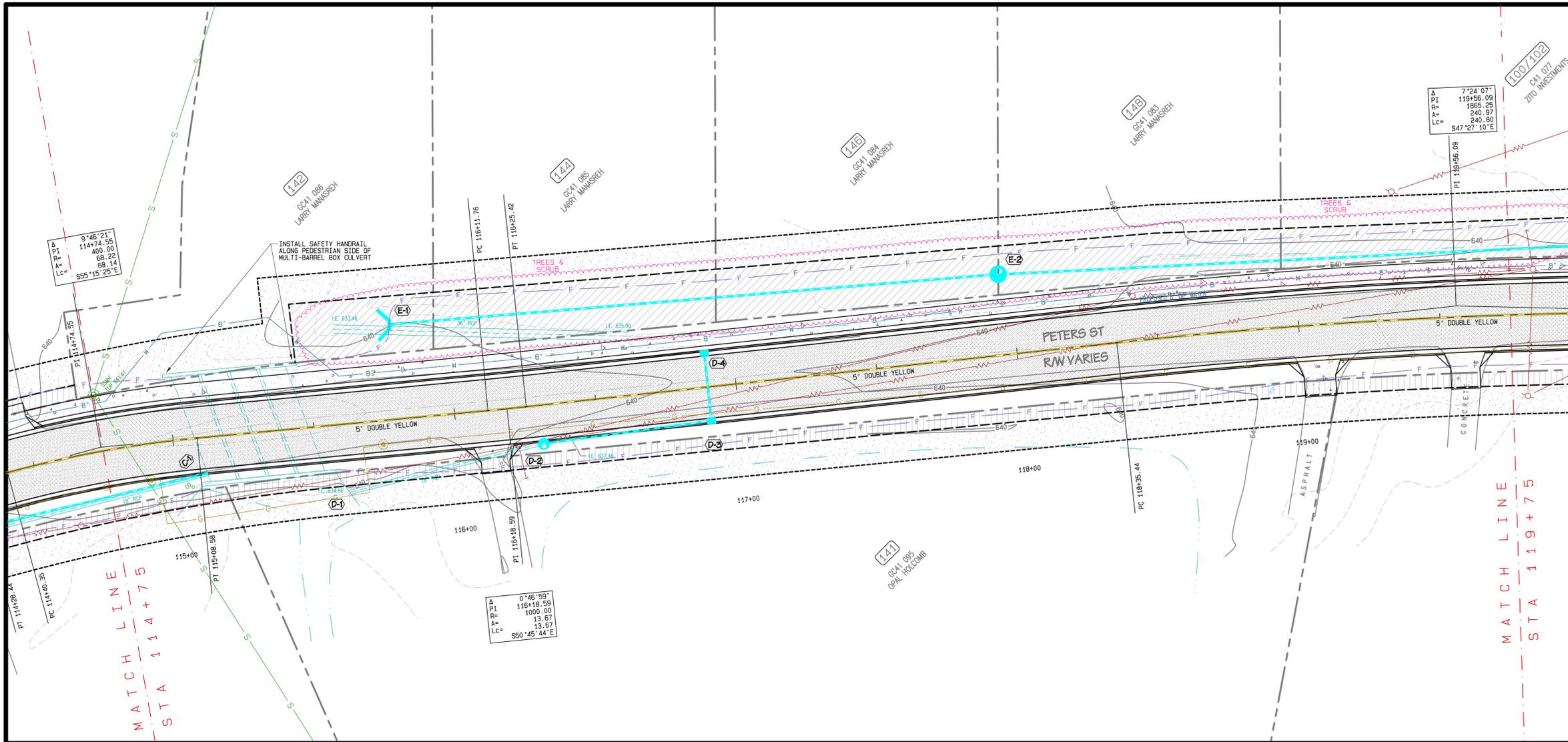
DATE	15 JUN 2016
SCALE	1" = 20'
DRAWN	MS
CHECKED	MS
PROJECT NO.	2045



24 HOUR CONTACT:
MR. KEVIN McENTIRE
PUBLIC WORKS DIRECTOR
(770) 548-0072



CITY OF CALHOUN
LION OF THE PINNACLE
STREET IMPROVEMENTS
PETERS STREET
PHASE I
CITY OF CALHOUN, GA
PLAN & PROFILE
STA 109+75 TO
STA 114+75
C-05



Know what's below.
Call before you dig.

- REQUIRED RIGHT-OF-WAY
- PERMANENT EASEMENT
- CONSTRUCTION EASEMENT
- EXISTING TREE TO REMAIN
- EXISTING TREE TO BE REMOVED
- TREES/SCRUB AREA TO BE CLEARED

- LEGEND
- Stream / Water
 - Fence Line
 - Wood Fence
 - Guardrail
 - Sign
 - Benchmark
 - Utility Pole
 - Valve
 - Fire Hydrant
 - Single Wing C.B.
 - Double Wing C.B.
 - Drop (Grate) Inlet
 - Area Inlet
 - Combination Inlet
 - Headwall
 - Flared End Sec'n
 - Storm Drain
 - Manhole / J.B.
 - Sanitary Sewer
 - Marsh / Wetland

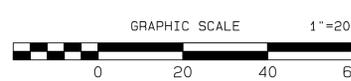
REVISIONS:
15 JUN 2016: ISSUED FOR BID

CIVIL SOUTH INCORPORATED
Civil & Structural Engineers
415 Shorter Avenue
Rome, Georgia 30165
(770) 548-7929



DATE	15 JUN 2016
SCALE	1" = 20'
DRAWN	MS
CHECKED	MS
PROJECT NO.	2045

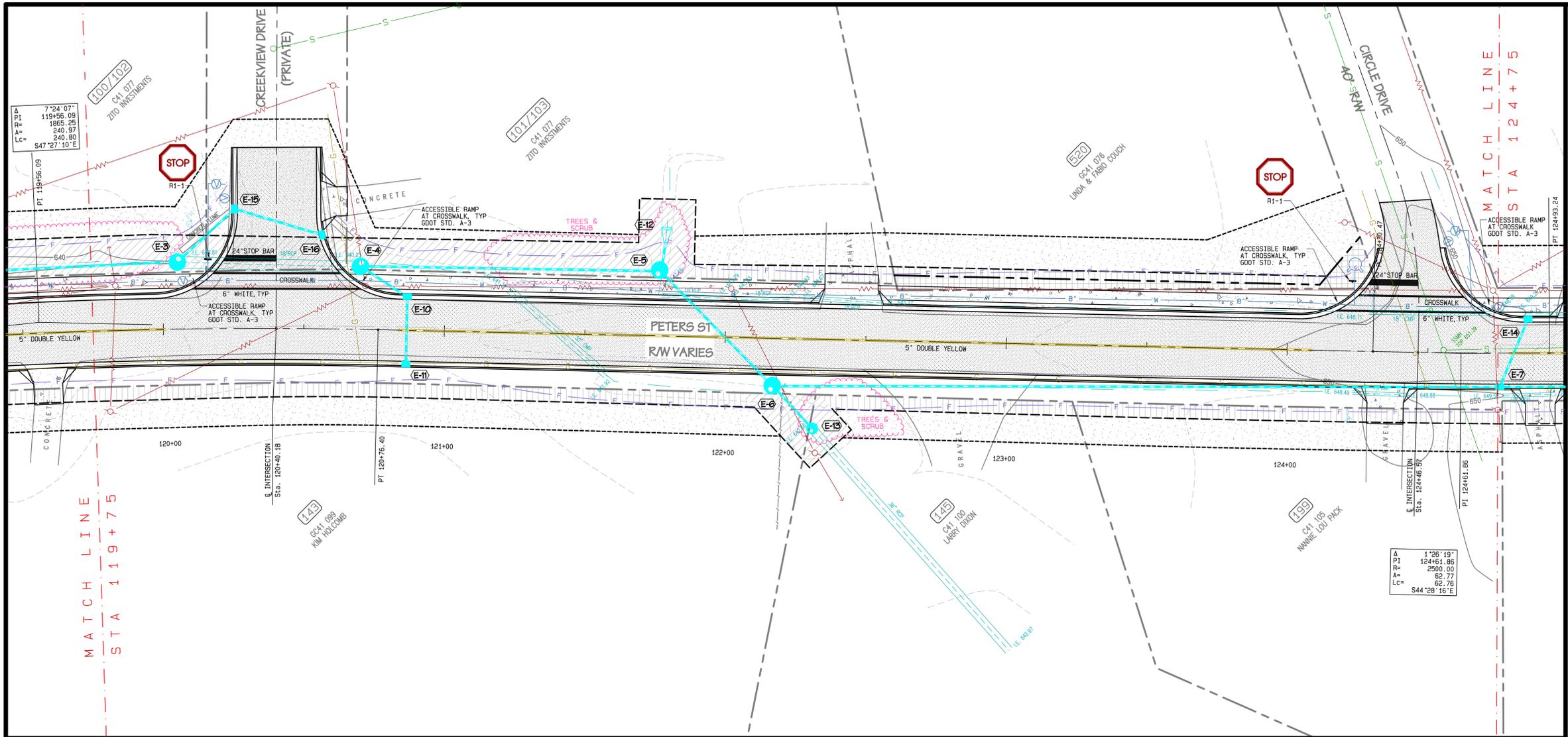
24 HOUR CONTACT:
MR. KEVIN McENTIRE
PUBLIC WORKS DIRECTOR
(770) 548-0072



STREET IMPROVEMENTS
PETERS STREET PHASE I
CITY OF CALHOUN, GA

PLAN & PROFILE
STA 114+75 TO
STA 119+75

C-06



Know what's below.
Call before you dig.

- REQUIRED RIGHT-OF-WAY
- PERMANENT EASEMENT
- CONSTRUCTION EASEMENT
- EXISTING TREE TO REMAIN
- EXISTING TREE TO BE REMOVED
- TREES/SCRUB AREA TO BE CLEARED

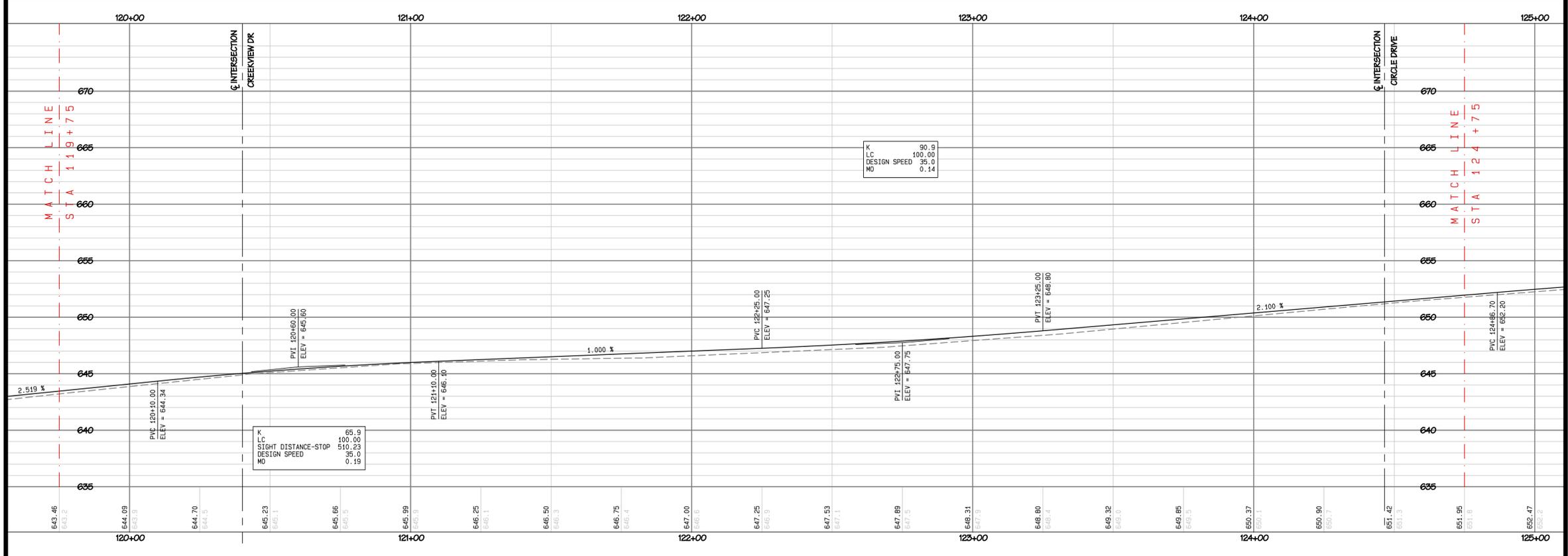
- LEGEND**
- Stream / Water
 - Fence Line
 - Wood Fence
 - Guardrail
 - Sign
 - Benchmark
 - Utility Pole
 - Valve
 - Fire Hydrant
 - Single Wing C.B.
 - Double Wing C.B.
 - Drop (Grate) Inlet
 - Area Inlet
 - Combination Inlet
 - Headwall
 - Flared End Sec'n
 - Storm Drain
 - Manhole / J.B.
 - Sanitary Sewer
 - Marsh / Wetland

REVISIONS:
15 JUN 2016: ISSUED FOR BID

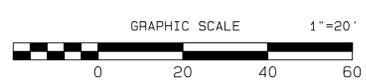
CIVIL SOUTH INCORPORATED
Civil & Structural Engineers
415 Shorter Avenue
Rome, Georgia 30165
(770) 548-7929



DATE	15 JUN 2016
SCALE	1" = 20'
DRAWN	MS
CHECKED	MS
PROJECT NO.	2045



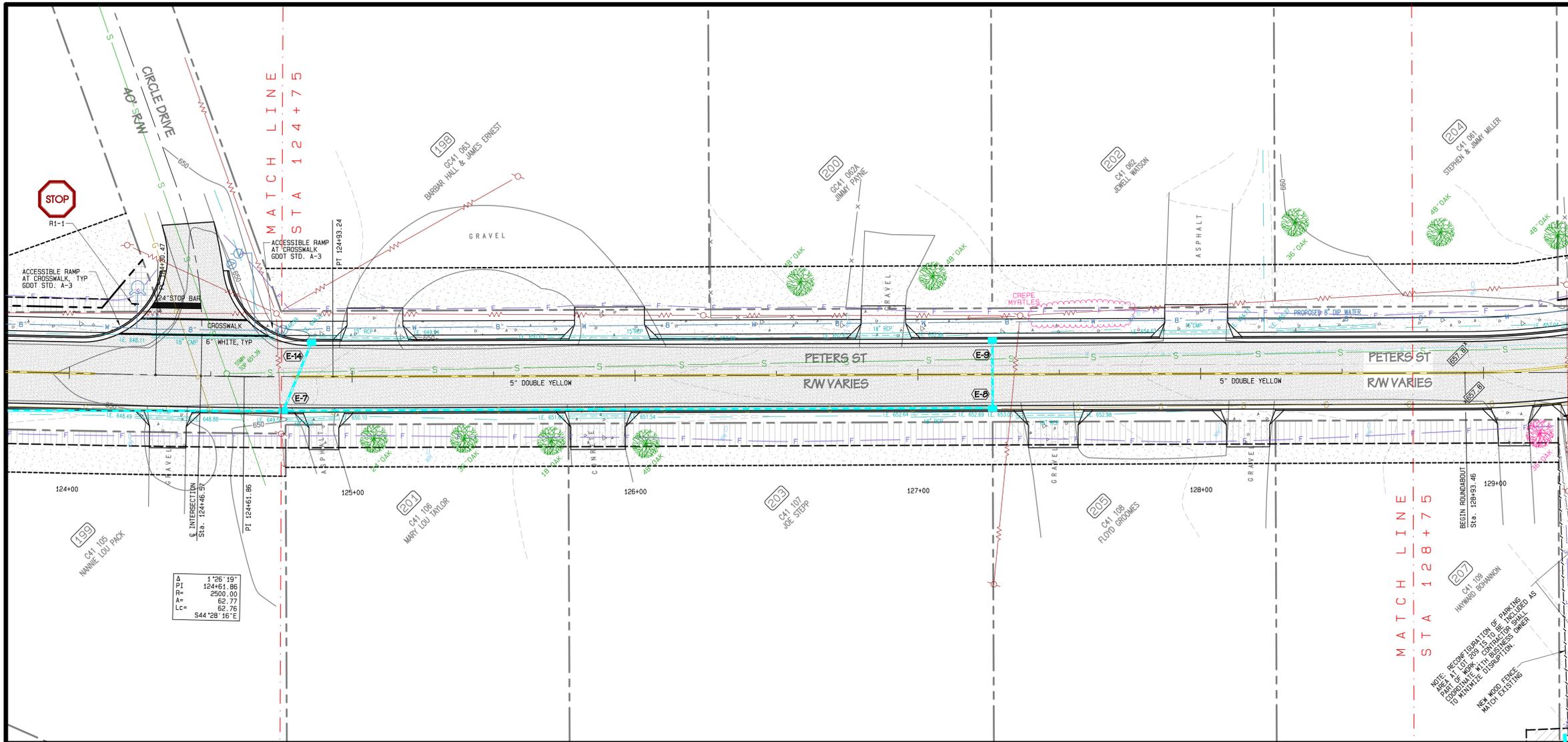
24 HOUR CONTACT:
MR. KEVIN McENTIRE
PUBLIC WORKS DIRECTOR
(770) 548-0072



CITY OF CALHOUN
LINDA OF THE ENGINEER

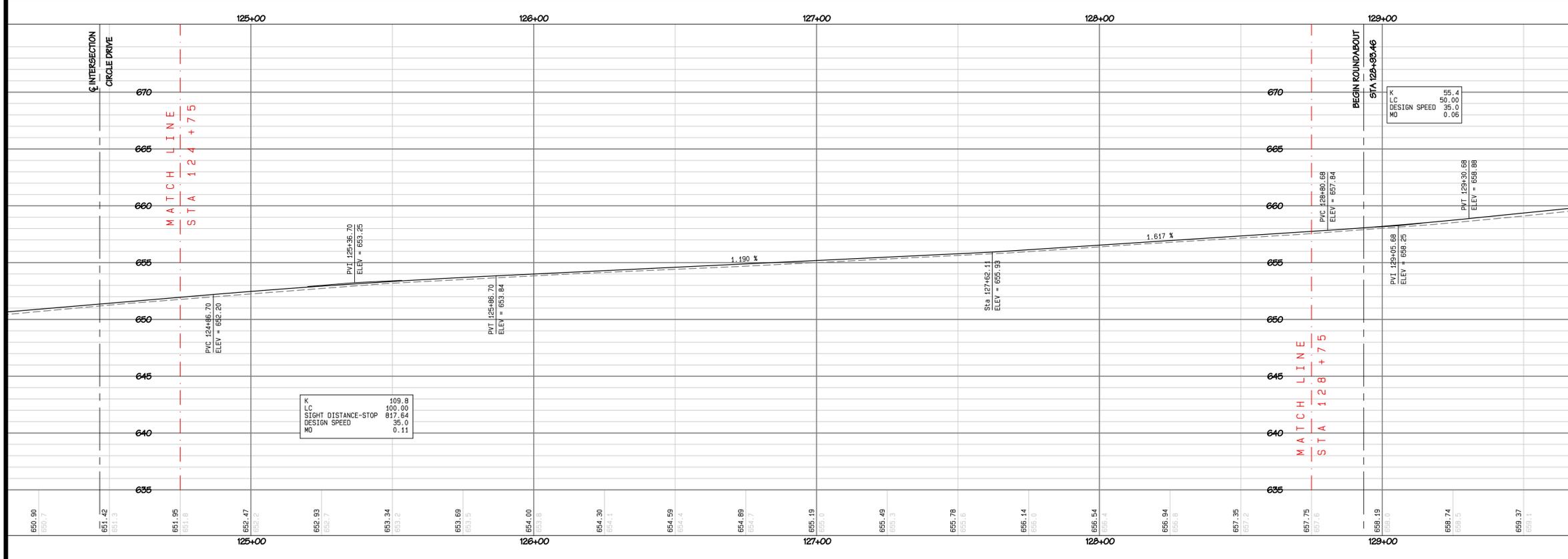
STREET IMPROVEMENTS
PETERS STREET
PHASE I
CITY OF CALHOUN, GA

PLAN & PROFILE
STA 119+75 TO
STA 124+75
C-07



Δ	1°26'19"
Pt	124+61.86
R	2900.00
A	62.77
Lc	62.76
	544°28'16"E

NOTE: REVIEW SEPARATION OF PARKING AREA AT INTERSECTION OF PETERS ST AND CIRCLE DRIVE FOR PROPOSED 8" DIA. WATER MAINS. NO WOOD FENCE TO REMAIN. EXISTING MATCH EXISTING.



Know what's below.
Call before you dig.

- REQUIRED RIGHT-OF-WAY
- PERMANENT EASEMENT
- CONSTRUCTION EASEMENT
- EXISTING TREE TO REMAIN
- EXISTING TREE TO BE REMOVED
- TREES/SCRUB AREA TO BE CLEARED

- LEGEND
- Stream / Water
 - Fence Line
 - Wood Fence
 - Guardrail
 - Sign
 - Benchmark
 - Utility Pole
 - Valve
 - Fire Hydrant
 - Single Wing C.B.
 - Double Wing C.B.
 - Drop (Grate) Inlet
 - Area Inlet
 - Combination Inlet
 - Headwall
 - Flared End Sec'n
 - Storm Drain
 - Manhole / J.B.
 - Sanitary Sewer
 - Marsh / Wetland

REVISIONS:

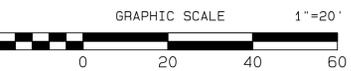
15 JUN 2016	ISSUED FOR BID
-------------	----------------

CIVIL SOUTH INCORPORATED
Civil & Structural Engineers
415 Shorter Avenue
Rome, Georgia 30165
(770) 548-7929



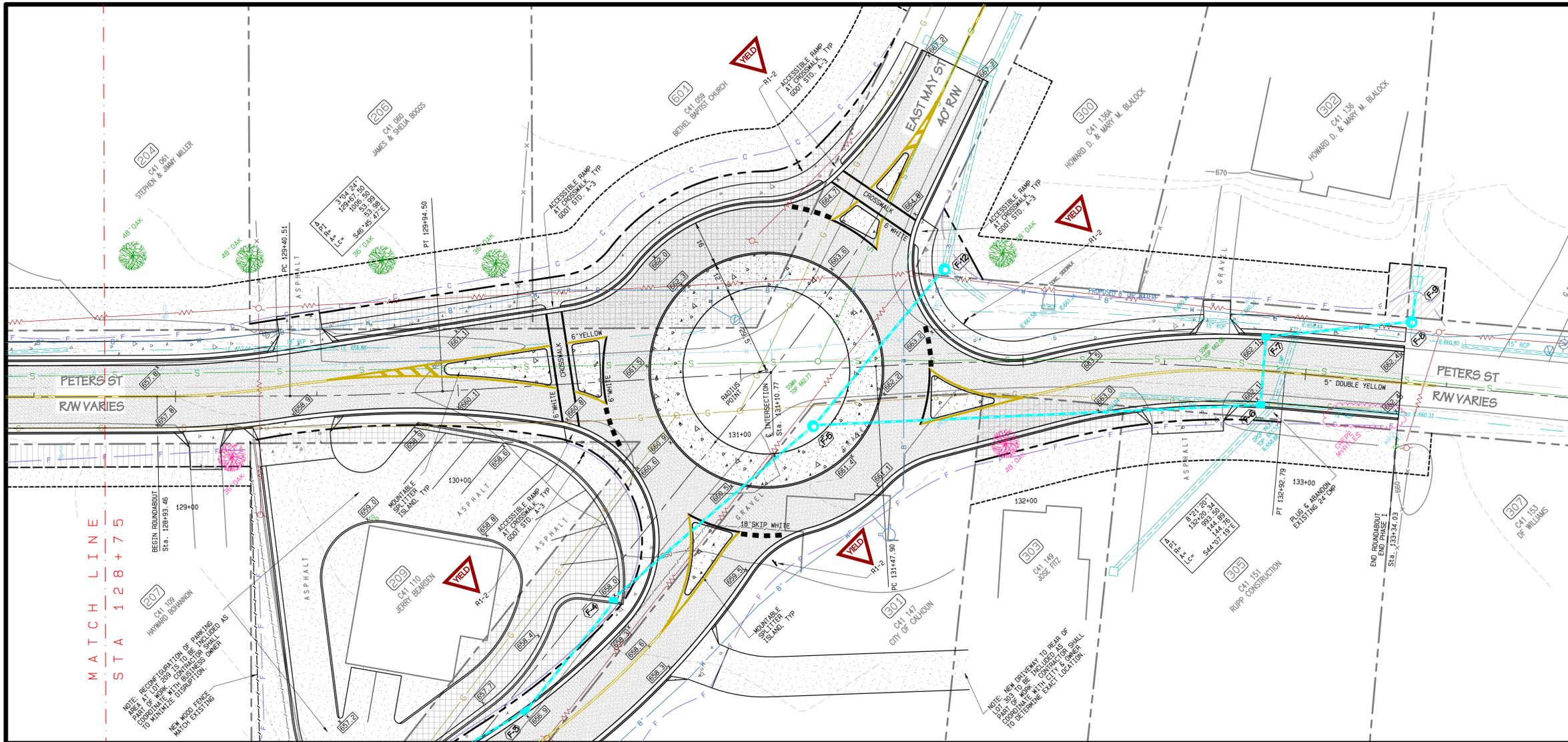
DATE	15 JUN 2016
SCALE	1" = 20'
DRAWN	MS
CHECKED	MS
PROJECT NO.	2045

24 HOUR CONTACT:
MR. KEVIN McENTIRE
PUBLIC WORKS DIRECTOR
(770) 548-0072



STREET IMPROVEMENTS
PETERS STREET PHASE I
CITY OF CALHOUN, GA

PLAN & PROFILE
STA 124+75 TO
STA 128+75
C-08



Know what's below.
Call before you dig.

- REQUIRED RIGHT-OF-WAY
- PERMANENT EASEMENT
- CONSTRUCTION EASEMENT
- EXISTING TREE TO REMAIN
- EXISTING TREE TO BE REMOVED
- TREES/SCRUB AREA TO BE CLEARED

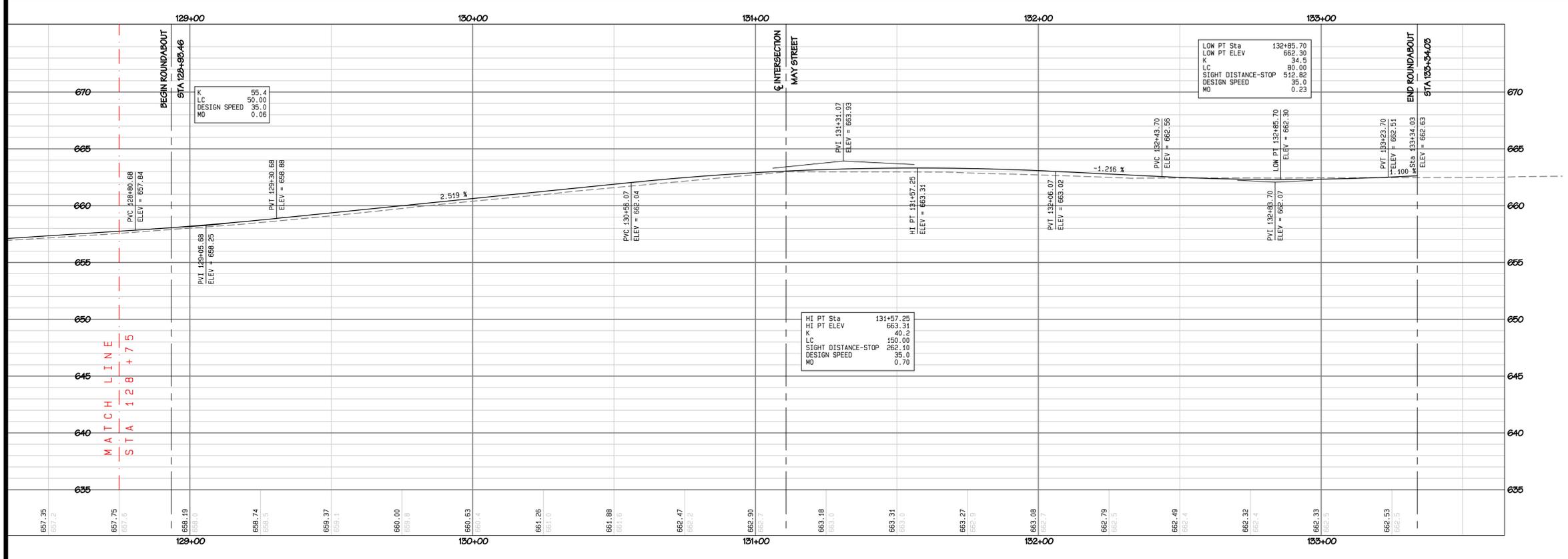
- LEGEND**
- Stream / Water
 - Fence Line
 - Wood Fence
 - Guardrail
 - Sign
 - Benchmark
 - Utility Pole
 - Valve
 - Fire Hydrant
 - Single Wing C.B.
 - Double Wing C.B.
 - Drop (Grate) Inlet
 - Area Inlet
 - Combination Inlet
 - Flared End Sec'n
 - Storm Drain
 - Manhole / J.B.
 - Sanitary Sewer
 - Marsh / Wetland

REVISIONS:
15 JUN 2016: ISSUED FOR BID

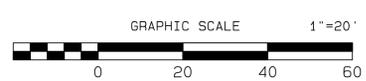
CIVIL SOUTH INCORPORATED
Civil & Structural Engineers
415 Shorter Avenue
Rome, Georgia 30165
(770) 548-7929



DATE	15 JUN 2016
SCALE	1" = 20'
DRAWN	MS
CHECKED	MS
PROJECT NO.	2045



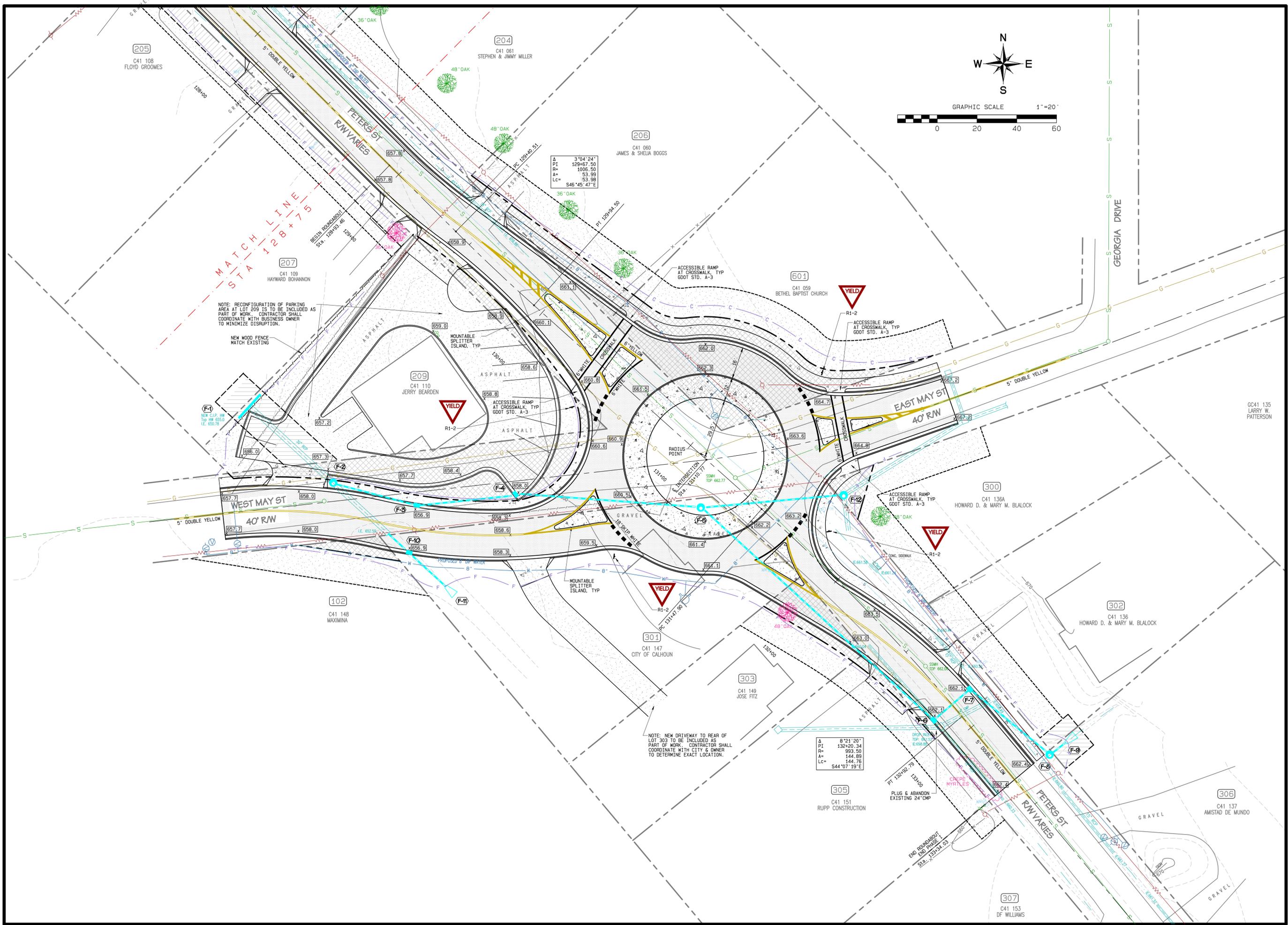
24 HOUR CONTACT:
MR. KEVIN McENTIRE
PUBLIC WORKS DIRECTOR
(770) 548-0072



CITY OF CALHOUN
LINDA OF THE EMPLOYEE

STREET IMPROVEMENTS
PETERS STREET
PHASE I
CITY OF CALHOUN, GA

PLAN & PROFILE
STA 129+75 TO
END PHASE I
C-09



- LEGEND**
- Stream / Water
 - - - - - Fence Line
 - Wood Fence
 - Guardrail
 - Sign
 - Benchmark
 - Utility Pole
 - Valve
 - Fire Hydrant
 - Single Wing C.B.
 - Double Wing C.B.
 - Drop (Grate) Inlet
 - Area Inlet
 - Combination Inlet
 - Headwall
 - Flared End Sec'n
 - Storm Drain
 - Manhole / J.B.
 - Sanitary Sewer
 - Marsh / Wetland

REVISIONS:

15 JUN 2016	ISSUED FOR BID
-------------	----------------

CIVIL SOUTH
INCORPORATED
 Civil & Structural Engineers
 415 Shorter Avenue
 Rome, Georgia 30165
 (770) 545-7929



DATE	15 JUN 2016
SCALE	
DRAWN	MS
CHECKED	MS
PROJECT NO.	2045

CITY OF CALHOUN
 LINDA OF THE PHOENIX

STREET IMPROVEMENTS
PETERS STREET
PHASE I
 CITY OF CALHOUN, GA

ROUNDBOUT INTERSECTION

C-10

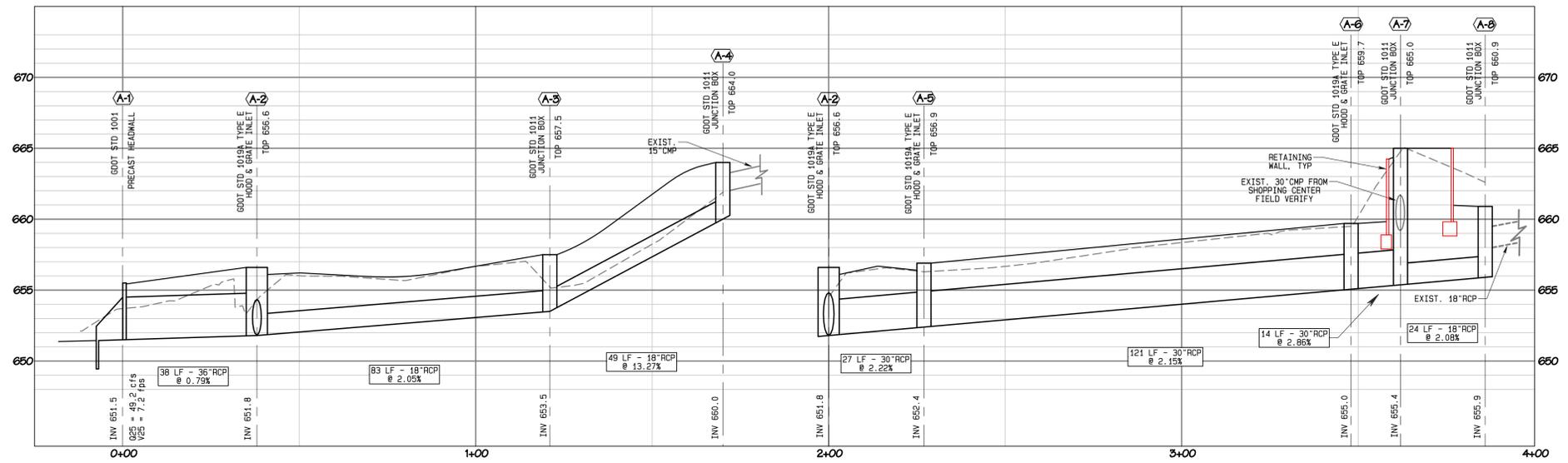
NOTE: RECONFIGURATION OF PARKING AREA AT LOT 209 IS TO BE INCLUDED AS PART OF WORK. CONTRACTOR SHALL COORDINATE WITH BUSINESS OWNER TO MINIMIZE DISRUPTION.

NEW WOOD FENCE MATCH EXISTING

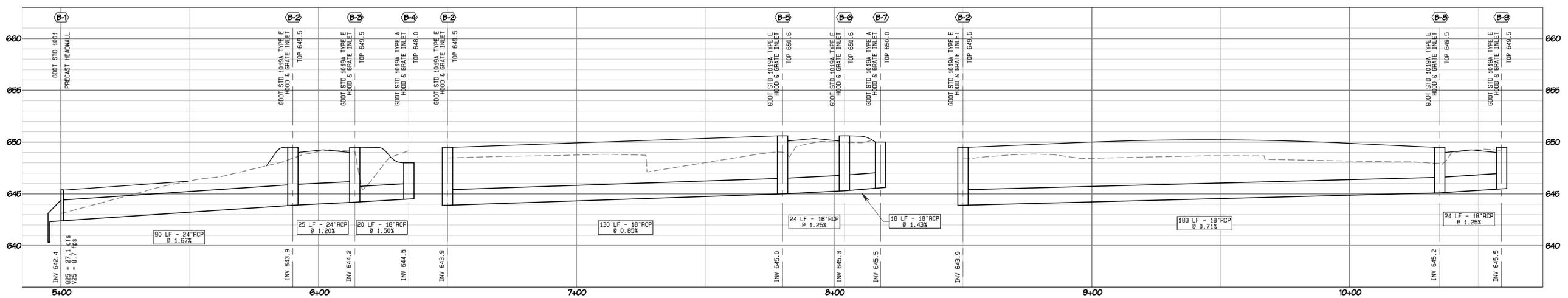
NOTE: NEW DRIVEWAY TO REAR OF LOT 303 TO BE INCLUDED AS PART OF WORK. CONTRACTOR SHALL COORDINATE WITH CITY & OWNER TO DETERMINE EXACT LOCATION.

A 3'04' 24"
 PI 129+67.50
 R= 1006.50
 A= 53.99
 LC= 546°45'47"E

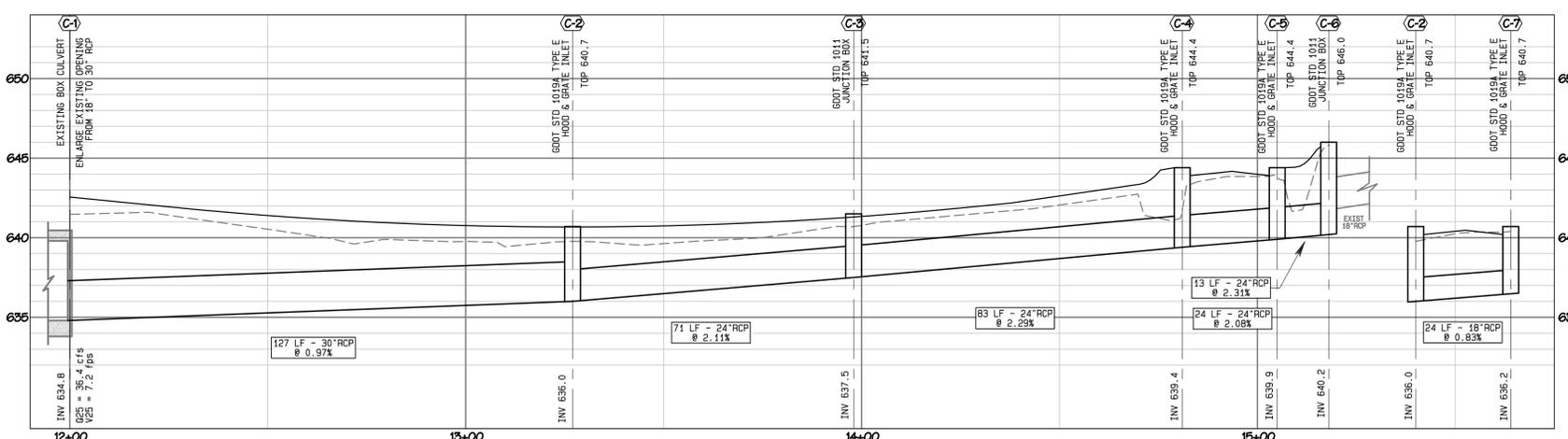
A 8'21' 20"
 PI 132+20.34
 R= 993.50
 A= 144.89
 LC= S44°07'19"E



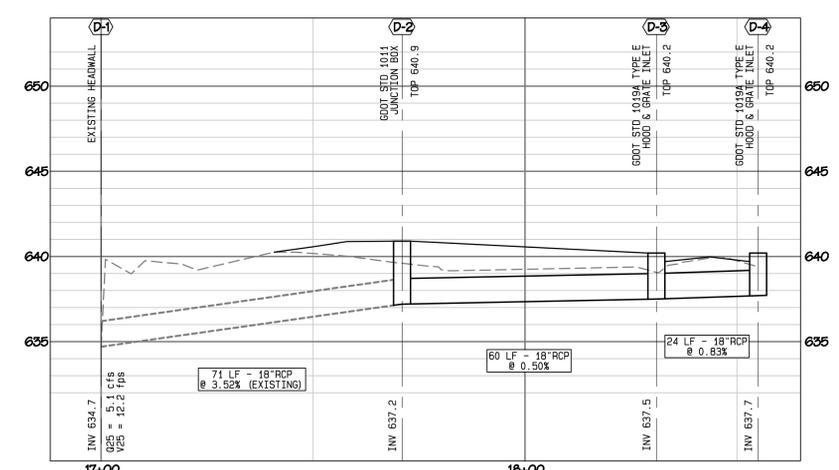
STORM DRAIN LINE 'A'
1" = 20' Horiz 1" = 5' Vert



STORM DRAIN LINE 'B'
1" = 20' Horiz 1" = 5' Vert



STORM DRAIN LINE 'C'
1" = 20' Horiz 1" = 5' Vert



STORM DRAIN LINE 'D'
1" = 20' Horiz 1" = 5' Vert



Know what's below.
Call before you dig.

24 HOUR CONTACT:
MR. KEVIN McENTIRE
PUBLIC WORKS DIRECTOR
(770) 548-0072

- LEGEND**
- Stream / Water
 - - - Fence Line
 - Wood Fence
 - Guardrail
 - Sign
 - Benchmark
 - Utility Pole
 - Valve
 - Fire Hydrant
 - Single Wing C.B.
 - Double Wing C.B.
 - Drop (Grate) Inlet
 - Area Inlet
 - Combination Inlet
 - Headwall
 - Flared End Sec'n
 - Storm Drain
 - Manhole / J.B.
 - Sanitary Sewer
 - Marsh / Wetland

REVISIONS:

15 JUN 2016	ISSUED FOR BID
-------------	----------------

CIVIL SOUTH INCORPORATED
Civil & Structural Engineers
415 Shorter Avenue
Rome, Georgia 30165
(770) 548-7929

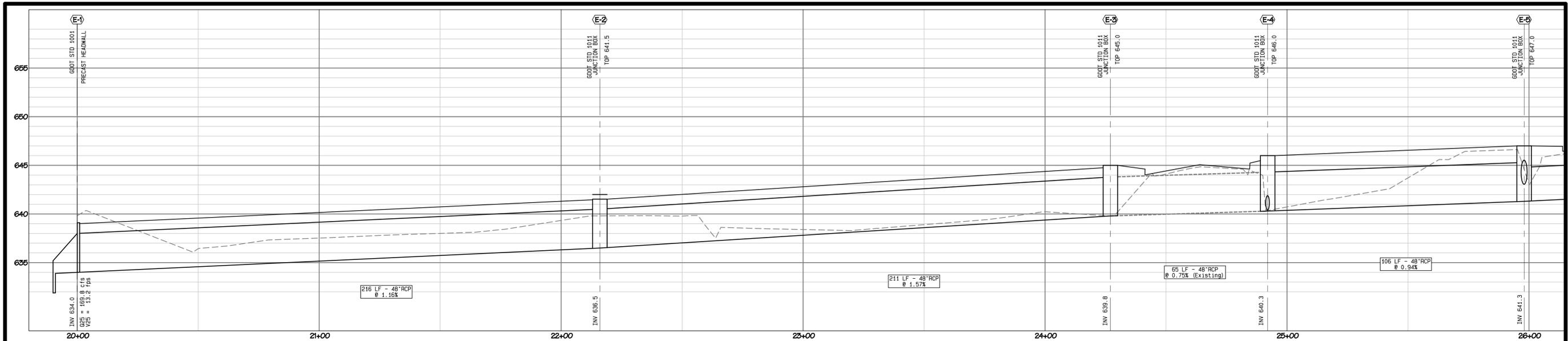


DATE	15 JUN 2016
SCALE	1"=20'H 1"=5'V
DRAWN	MS
CHECKED	MS
PROJECT NO.	2045

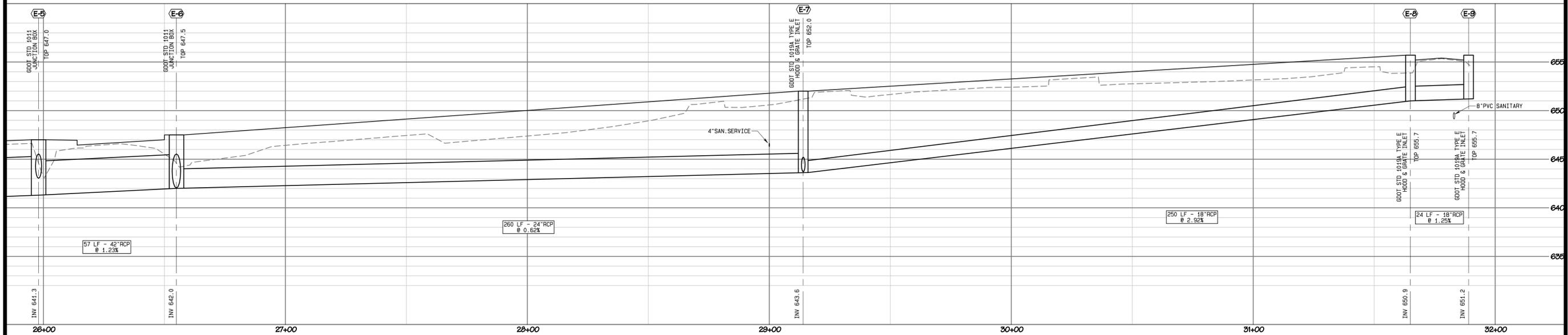
STREET IMPROVEMENTS
PETERS STREET PHASE I
CITY OF CALHOUN, GA

STORM DRAIN PROFILES
LINES 'A' THRU 'D'

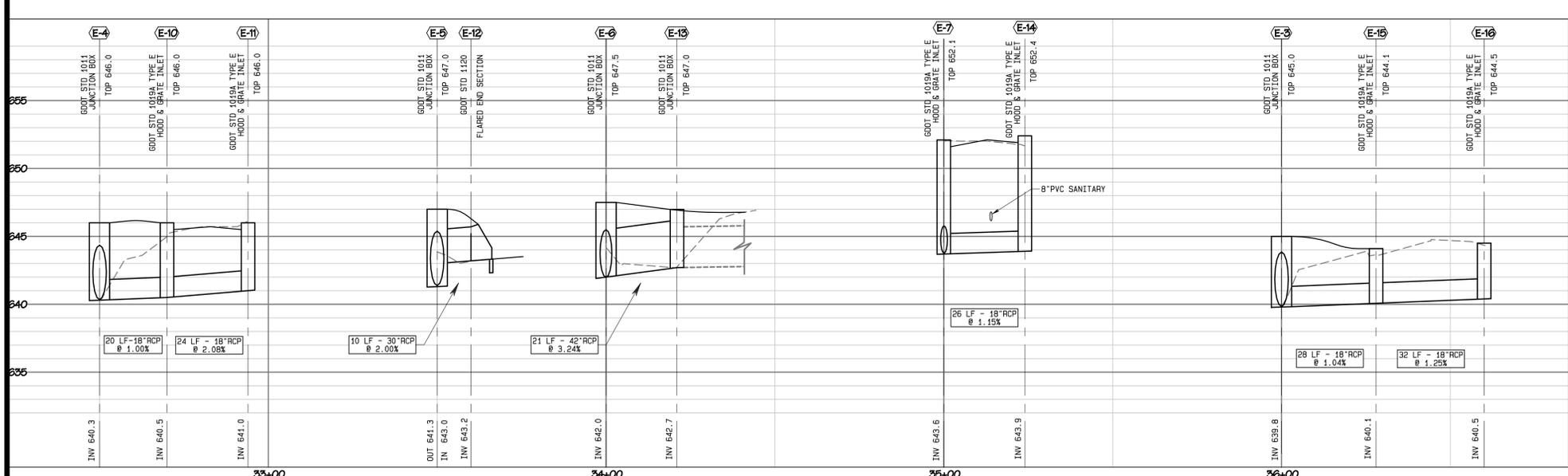
C - 11



STORM DRAIN LINE 'E'
1" = 20' Horiz 1" = 5' Vert



STORM DRAIN LINE 'E'
1" = 20' Horiz 1" = 5' Vert



STORM DRAIN LINE 'E'
1" = 20' Horiz 1" = 5' Vert

- LEGEND**
- Stream / Water
 - - - Fence Line
 - Wood Fence
 - Guardrail
 - Sign
 - Benchmark
 - Utility Pole
 - Valve
 - Fire Hydrant
 - Single Wing C.B.
 - Double Wing C.B.
 - Drop (Grate) Inlet
 - Area Inlet
 - Combination Inlet
 - Headwall
 - Flared End Sec'n
 - Storm Drain
 - Manhole / J.B.
 - Sanitary Sewer
 - Marsh / Wetland

REVISIONS:
15 JUN 2016: ISSUED FOR BID

CIVIL SOUTH
INCORPORATED
Civil & Structural Engineers
415 Shorter Avenue
Rome, Georgia 30165
(770) 548-7929



DATE	15 JUN 2016
SCALE	1"=20'H 1"=5'V
DRAWN	MS
CHECKED	MS
PROJECT NO.	2045



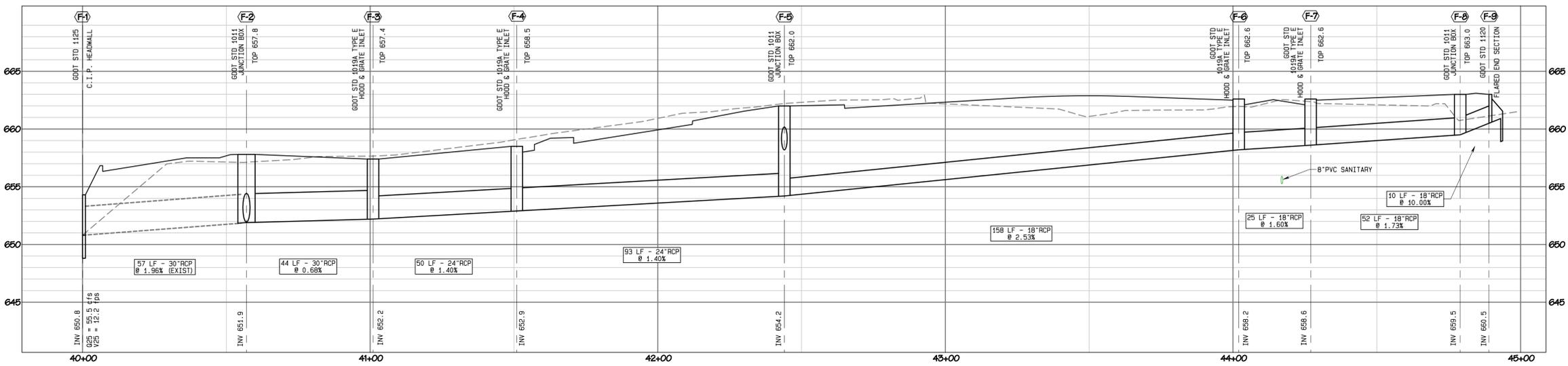
Know what's below.
Call before you dig.

24 HOUR CONTACT:
MR. KEVIN McENTIRE
PUBLIC WORKS DIRECTOR
(770) 548-0072

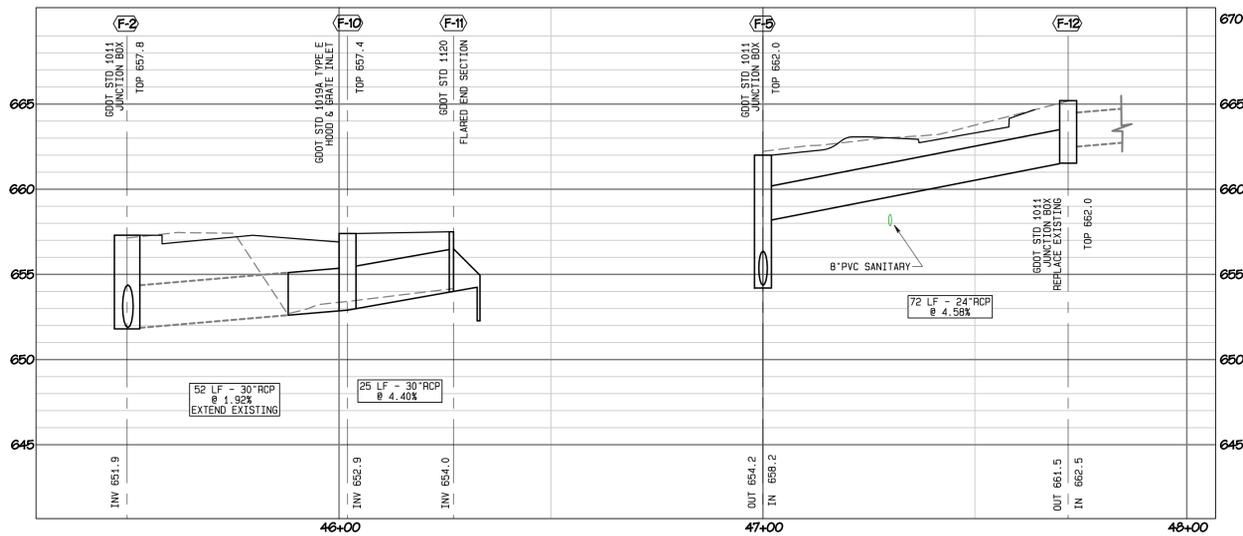
STREET IMPROVEMENTS
PETERS STREET
PHASE I
CITY OF CALHOUN, GA

STORM DRAIN
PROFILES
LINE 'E'

C - 12



STORM DRAIN LINE 'F'
1" = 20' Horiz 1" = 5' Vert



STORM DRAIN LINE 'F'
1" = 20' Horiz 1" = 5' Vert



Know what's below.
Call before you dig.

24 HOUR CONTACT:
MR. KEVIN McENTIRE
PUBLIC WORKS DIRECTOR
(770) 548-0072

Peters Street - Phase I Storm Drain Line 'A'

Structure	Type	Station	Area	Q to Inlet	I Q	Top	Inv	Length	Slope	Size	Capacity
A-1	HW	0	n/a	n/a	49.2	656.6	651.5	38	0.79%	36	64.2
A-2	CI	38	0.15	1.0	3.4	657.5	653.5	83	2.05%	18	16.3
A-3	JB	121	n/a	0.0	3.4	664.0	660.0	49	13.27%	18	41.5
A-4	JB	170	0.52	3.4	3.4	664.0	660.0	49	13.27%	18	41.5
A-2	CI	200	n/a	n/a	44.9	656.6	651.8	27	2.22%	30	66.2
A-5	CI	227	0.25	1.6	43.3	656.9	652.4	121	2.15%	30	65.1
A-6	CI	348	0.50	3.3	40.0	659.7	655.0	14	2.86%	30	75.0
A-7	JB	362	35.0	35.0	5.0	665.0	655.4	24	2.08%	18	16.5
A-8	JB	386	5.0	5.0	5.0	665.0	655.9	24	2.08%	18	16.5

Peters Street - Phase I Storm Drain Line 'B'

Structure	Type	Station	Area	Q to Inlet	I Q	Top	Inv	Length	Slope	Size	Capacity
B-1	HW	500	n/a	n/a	27.1	649.5	643.9	90	1.67%	24	31.6
B-2	CI	590	0.16	1.0	18.8	649.5	644.2	25	1.20%	24	26.8
B-3	CI	615	1.76	5.7	13.1	649.5	644.2	20	1.50%	18	14.0
B-4	DI	632	4.02	13.1	13.1	648.0	644.5	130	0.85%	18	10.5
B-5	CI	780	0.20	1.3	6.0	650.6	645.0	24	1.25%	18	12.7
B-6	CI	804	0.55	3.6	2.4	650.6	645.3	14	1.43%	18	13.6
B-7	DI	818	0.37	2.4	2.4	650.0	645.5	183	0.71%	18	9.6
B-8	CI	1033	0.10	0.7	7.3	649.5	645.2	24	1.25%	18	12.7
B-9	DI	1057	1.03	6.7	6.7	649.5	645.5	24	1.25%	18	12.7

Peters Street - Phase I Storm Drain Line 'E'

Structure	Type	Station	Area	Q to Inlet	I Q	Top	Inv	Length	Slope	Size	Capacity
E-1	HW	2000	n/a	n/a	169.8	641.5	634.0	216	1.16%	48	167.4
E-2	JB	2216	0.26	1.7	168.1	645.0	639.8	65	0.75%	48	135.1
E-3	JB	2427	1.38	9.0	159.2	646.0	640.3	106	0.94%	48	151.1
E-4	JB	2492	0.44	2.9	151.2	647.0	641.3	57	1.23%	42	120.8
E-5	JB	2598	0.85	5.5	117.1	647.0	642.0	260	0.62%	24	19.2
E-6	JB	2655	3.29	21.4	19.0	647.5	643.0	250	2.92%	18	19.5
E-7	CI	2915	0.65	4.2	6.5	655.7	650.9	24	1.25%	18	12.7
E-8	CI	3185	0.56	3.6	2.9	655.7	651.2	24	1.25%	18	12.7
E-9	CI	3189	0.44	2.9	2.9	655.7	651.2	24	1.25%	18	12.7
E-4	JB	3250	n/a	n/a	5.1	646.0	640.3	20	1.00%	18	11.4
E-10	CI	3270	0.28	1.8	3.3	646.0	641.0	24	2.08%	18	16.5
E-11	CI	3294	0.51	3.3	3.3	646.0	641.0	10	2.00%	30	62.8
E-12	FES	3360	8.80	28.6	28.6	647.0	642.0	21	3.24%	42	196.1
E-13	JB	3421	6.66	21.6	76.7	647.0	642.7	26	1.15%	18	12.2
E-7	CI	3500	n/a	n/a	8.3	652.1	643.6	24	1.25%	18	12.7
E-14	CI	3526	1.97	8.3	8.3	652.4	643.9	28	1.04%	18	11.6
E-10	CI	3628	0.28	1.8	1.8	644.1	640.1	32	1.25%	18	12.7
E-11	CI	3660	0.28	1.8	1.8	644.5	640.5	28	1.04%	18	11.6

Peters Street - Phase I Storm Drain Line 'C'

Structure	Type	Station	Area	Q to Inlet	I Q	Top	Inv	Length	Slope	Size	Capacity
C-1	Box Culvert	1200	n/a	n/a	36.4	640.7	634.8	127	0.97%	30	43.7
C-2	CI	1327	0.12	0.8	35.6	641.5	637.5	71	2.11%	24	35.6
C-3	JB	1398	0.00	0.0	35.6	644.4	639.4	24	2.08%	24	35.4
C-4	CI	1481	0.12	0.8	34.8	644.4	639.4	13	2.31%	24	37.2
C-5	CI	1505	0.80	5.2	29.6	646.0	640.2	24	0.83%	18	10.4
C-6	JB	1518	4.56	29.6	2.5	640.7	636.2	24	0.83%	18	10.4
C-7	CI	1564	0.38	2.5	2.5	640.7	636.2	24	0.83%	18	10.4

Peters Street - Phase I Storm Drain Line 'D'

Structure	Type	Station	Area	Q to Inlet	I Q	Top	Inv	Length	Slope	Size	Capacity
D-1	HW	1700	n/a	n/a	5.1	649.9	637.2	71	3.52%	18	21.4
D-2	JB	1771	n/a	0.0	3.1	640.2	637.5	60	0.50%	18	8.1
D-3	CI	1831	0.28	1.8	3.1	640.2	637.5	24	0.83%	18	10.4
D-3	CI	1855	0.51	3.3	3.3	640.2	637.7	24	0.83%	18	10.4

Peters Street - Phase I Storm Drain Line 'F'

Structure	Type	Station	Area	Q to Inlet	I Q	Top	Inv	Length	Slope	Size	Capacity
F-1	HW	4000	n/a	n/a	55.0	657.8	650.8	57	1.96%	30	62.2
F-2	JB	4057	7.70	25.0	30.0	657.4	652.2	44	0.68%	30	36.7
F-3	CI	4101	0.20	1.3	28.7	658.5	652.9	50	1.40%	24	29.0
F-4	CI	4151	0.20	1.3	27.4	662.0	654.2	158	2.53%	18	18.1
F-5	JB	4244	2.30	15.0	12.4	662.6	658.2	25	1.60%	18	14.4
F-6	CI	4402	0.50	3.3	9.2	662.6	658.2	52	1.73%	18	15.0
F-7	CI	4437	0.50	3.3	5.9	663.0	659.5	10	2.00%	18	16.1
F-8	JB	4479	n/a	0.0	5.9	663.0	659.5	10	2.00%	18	16.1
F-9	FES	4489	1.83	5.9	5.9	665.2	661.5	72	4.58%	24	52.5
F-2	JB	4550	n/a	n/a	57.8	657.4	652.9	25	4.40%	30	30
F-10	CI	4602	n/a	n/a	57.4	657.4	652.9	25	4.40%	30	30
F-11	HW	4627	n/a	n/a	n/a	662.0	658.2	72	4.58%	24	52.5
F-5	JB	4700	n/a	n/a	15.0	662.0	658.2	72	4.58%	24	52.5
F-12	JB	4772	n/a	n/a	15.0	665.2	661.5	72	4.58%	24	52.5

- LEGEND**
- Stream / Water
 - Fence Line
 - Wood Fence
 - Guardrail
 - Sign
 - Benchmark
 - Utility Pole
 - Valve
 - Fire Hydrant
 - Single Wing C.B.
 - Double Wing C.B.
 - Drop (Grate) Inlet
 - Area Inlet
 - Combination Inlet
 - Headwall
 - Flared End Sec'n
 - Storm Drain
 - Manhole / J.B.
 - Sanitary Sewer
 - Marsh / Wetland

REVISIONS:
15 JUN 2016: ISSUED FOR BID

CIVIL SOUTH INCORPORATED
Civil & Structural Engineers
415 Shorter Avenue
Rome, Georgia 30165
(770) 548-7929



DATE	15 JUN 2016
SCALE	1"=20'H 1"=5'V
DRAWN	MS
CHECKED	MS
PROJECT NO.	2045

STREET IMPROVEMENTS
PETERS STREET PHASE I
CITY OF CALHOUN, GA

STORM DRAIN PROFILES
LINE 'F'

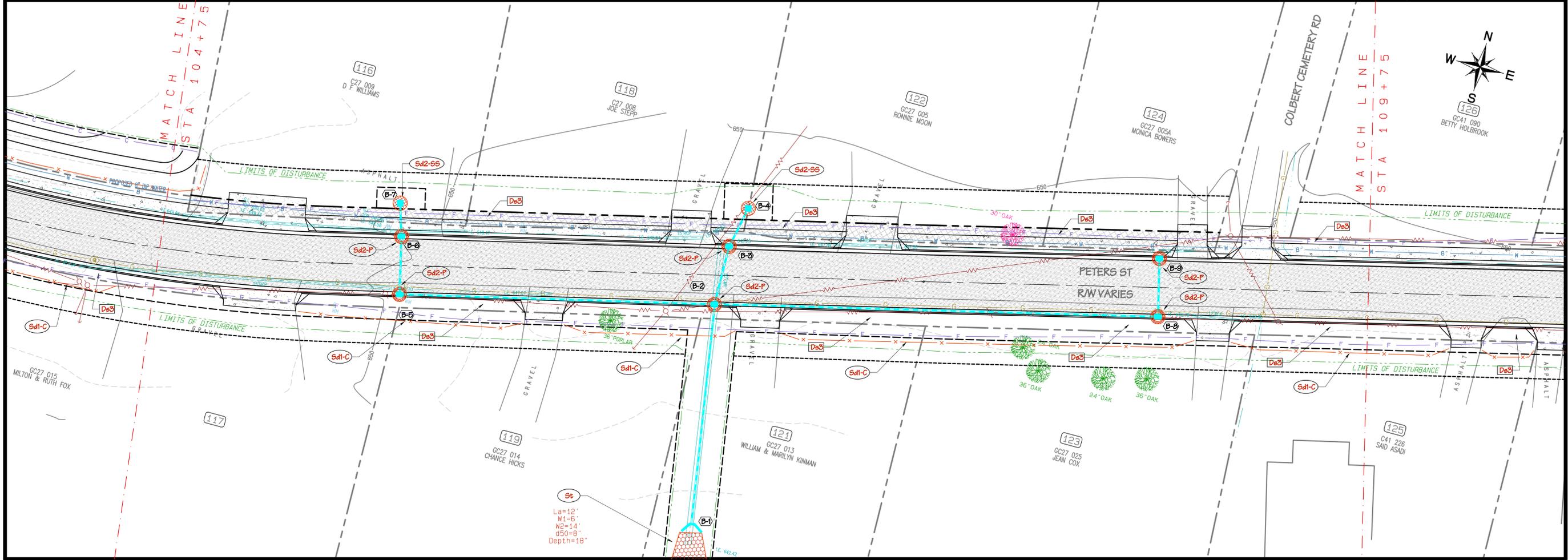
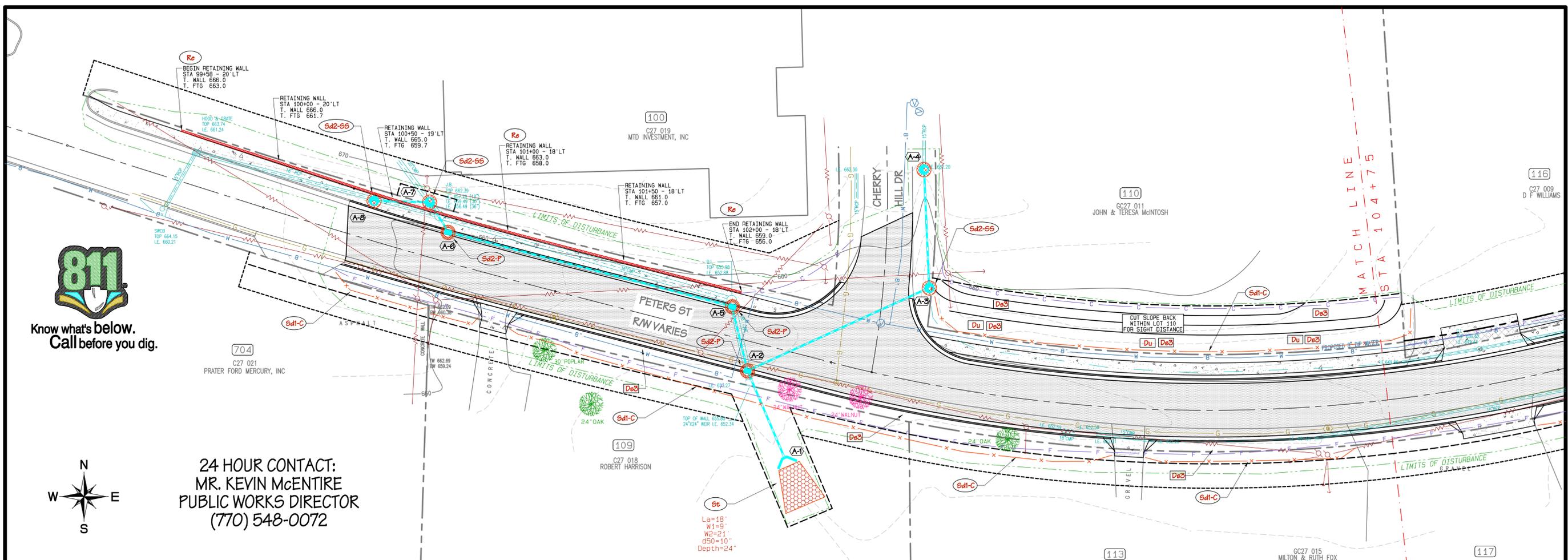
C - 13



Know what's below.
Call before you dig.



24 HOUR CONTACT:
MR. KEVIN McENTIRE
PUBLIC WORKS DIRECTOR
(770) 548-0072



- LEGEND**
- Stream / Water
 - - - Fence Line
 - Wood Fence
 - Guardrail
 - Sign
 - Benchmark
 - Utility Pole
 - Valve
 - Fire Hydrant
 - Single Wing C.B.
 - Double Wing C.B.
 - Drop (Grate) Inlet
 - Area Inlet
 - Combination Inlet
 - Headwall
 - Flared End Sec'n
 - Storm Drain
 - Manhole / J.B.
 - Sanitary Sewer
 - Marsh / Wetland

REVISIONS:

NO.	DATE	DESCRIPTION
1	15 JUN 2016	ISSUED FOR BID

CIVIL SOUTH INCORPORATED
Civil & Structural Engineers
415 Shorter Avenue
Rome, Georgia 30165
(770) 548-7929



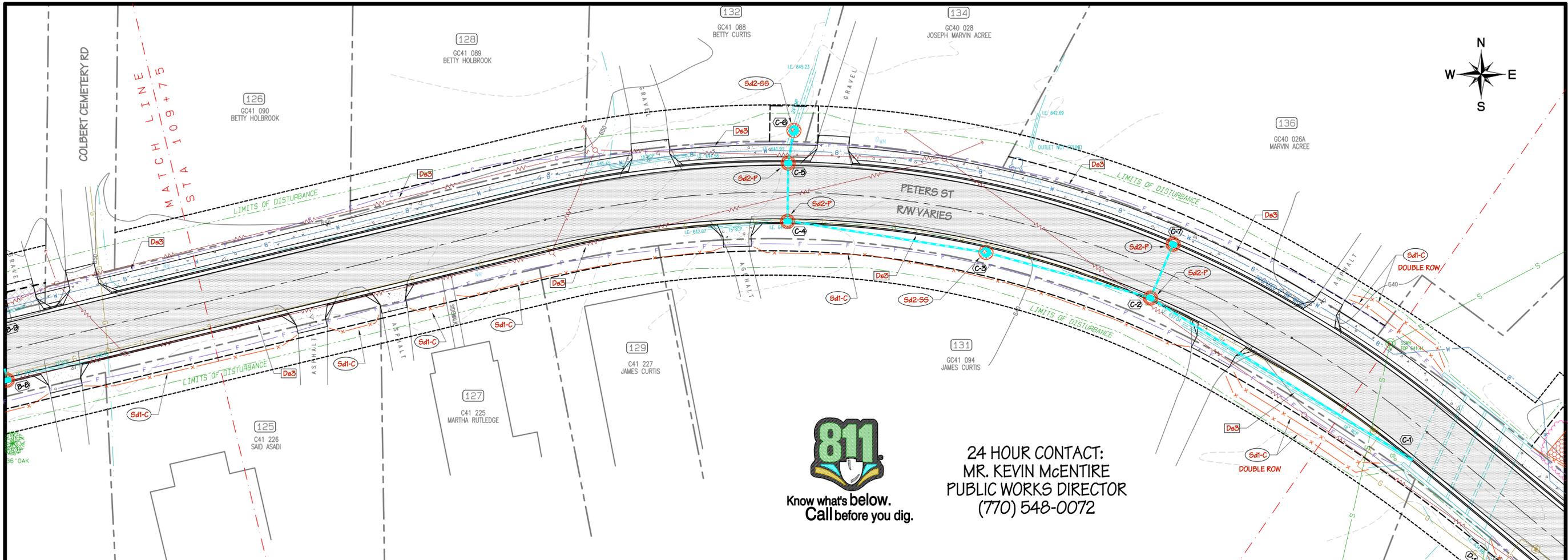
DATE	15 JUN 2016
SCALE	1" = 20'
DRAWN	MS
CHECKED	MS
PROJECT NO.	2045

CITY OF CALHOUN
LAND OF THE PINNACLES

STREET IMPROVEMENTS
PETERS STREET
PHASE I
CITY OF CALHOUN, GA

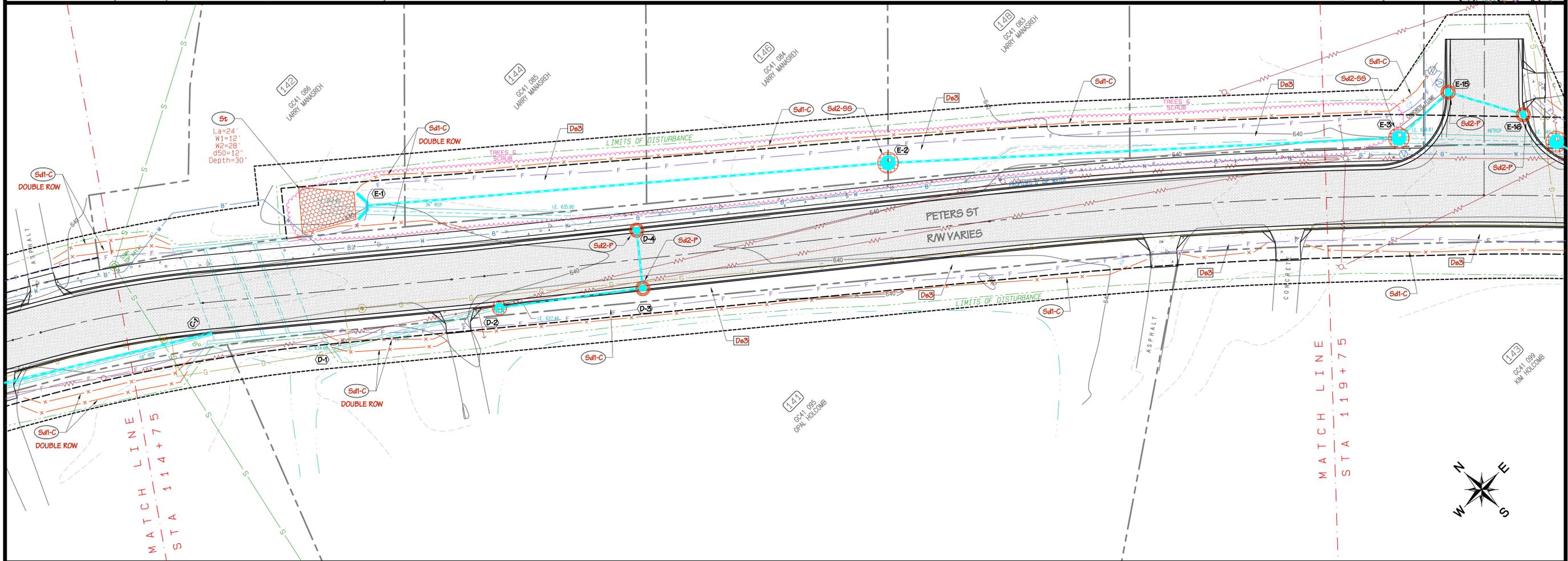
EROSION CONTROL PLAN

C - 15



811
Know what's below.
Call before you dig.

24 HOUR CONTACT:
MR. KEVIN McENTIRE
PUBLIC WORKS DIRECTOR
(770) 548-0072



LEGEND

- Stream / Water
- Fence Line
- Wood Fence
- Guardrail
- Sign
- Benchmark
- Utility Pole
- Valve
- Fire Hydrant
- Single Wing C.B.
- Double Wing C.B.
- Drop (Grate) Inlet
- Area Inlet
- Combination Inlet
- Headwall
- Flared End Sec'n
- Storm Drain
- Manhole / J.B.
- Sanitary Sewer
- Marsh / Wetland

REVISIONS:

15 JUN 2016: ISSUED FOR BID

CIVIL SOUTH INCORPORATED
Civil & Structural Engineers
415 Shorter Avenue
Rome, Georgia 30165
(770) 548-7929

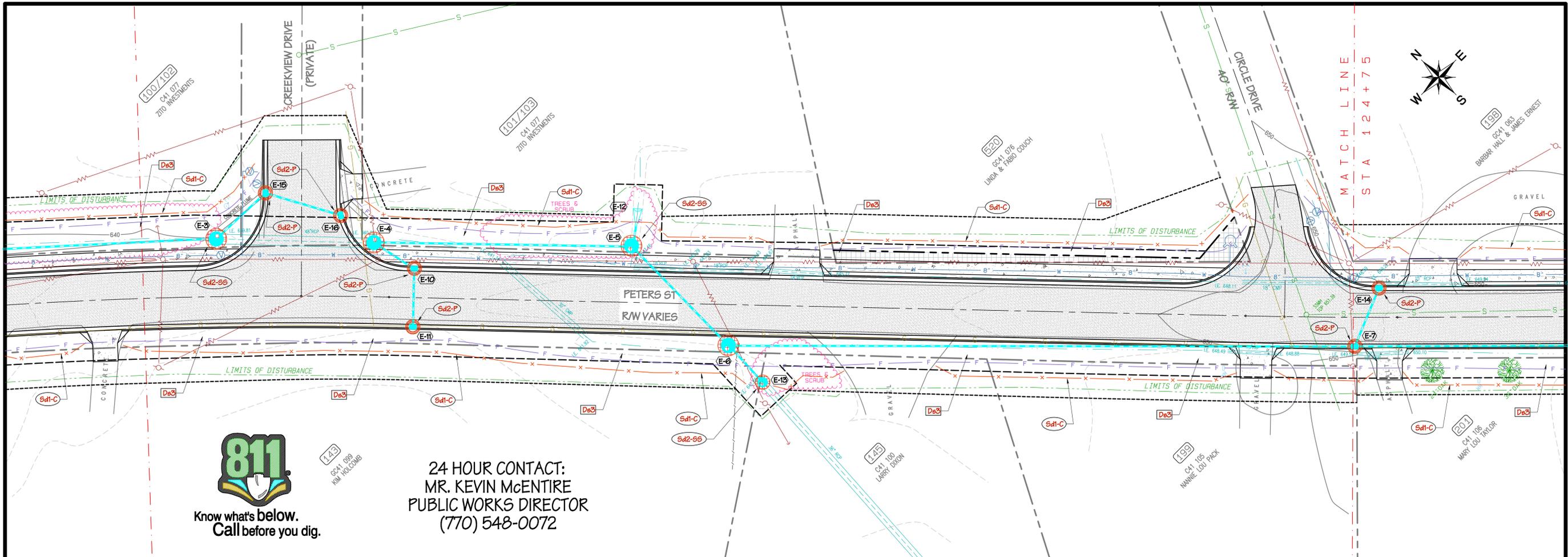
GEORGIA REGISTERED PROFESSIONAL ENGINEER
MARK R SHAMBLIN
LEVEL II GSNCC # 11395

DATE	15 JUN 2016
SCALE	1" = 20'
DRAWN	MS
CHECKED	MS
PROJECT NO.	2045

CITY OF CALHOUN
LAND OF THE CHEERIE

STREET IMPROVEMENTS
PETERS STREET
PHASE I
CITY OF CALHOUN, GA

EROSION CONTROL PLAN
C-16



Know what's below.
Call before you dig.

24 HOUR CONTACT:
MR. KEVIN McENTIRE
PUBLIC WORKS DIRECTOR
(770) 548-0072

LEGEND

- Stream / Water
- - - Fence Line
- - - Wood Fence
- - - Guardrail
- ⊕ Sign
- ⊕ Benchmark
- ⊕ Utility Pole
- ⊕ Valve
- ⊕ Fire Hydrant
- ⊕ Single Wing C.B.
- ⊕ Double Wing C.B.
- ⊕ Drop (Grate) Inlet
- ⊕ Area Inlet
- ⊕ Combination Inlet
- ⊕ Headwall
- ⊕ Flared End Sec'n
- - - Storm Drain
- ⊕ Manhole / J.B.
- - - Sanitary Sewer
- ⊕ Marsh / Wetland

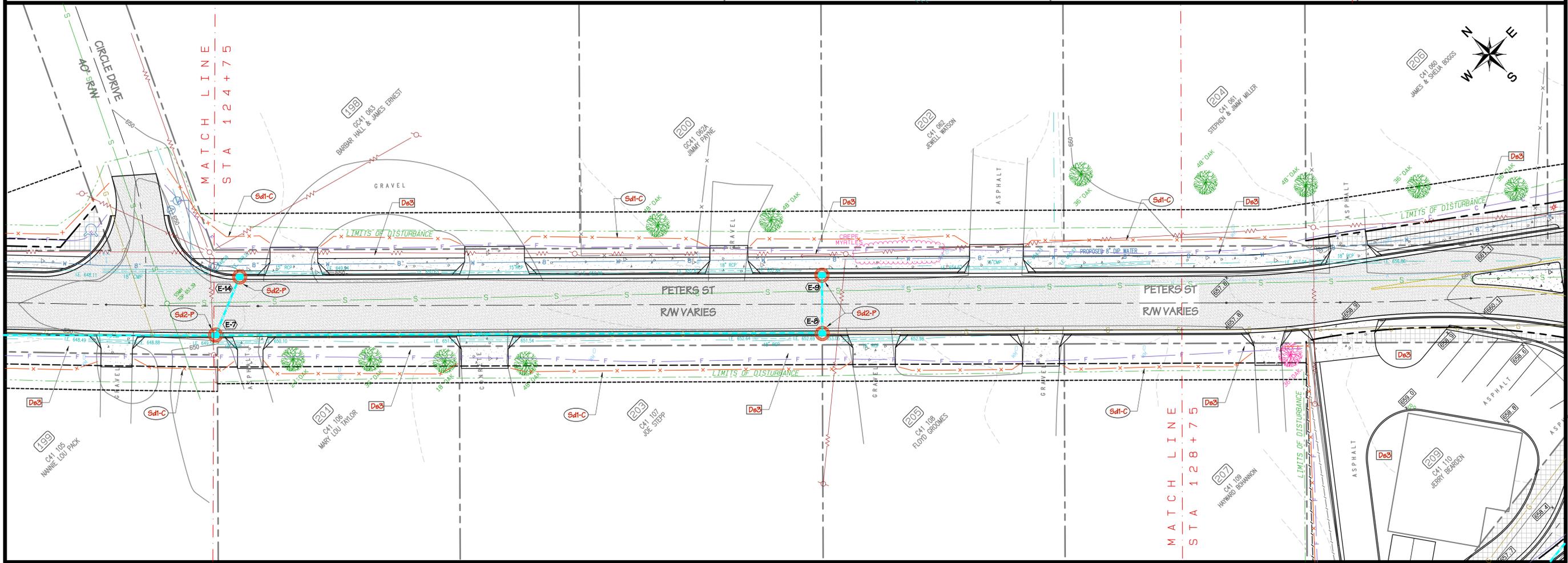
REVISIONS

15 JUN 2016	ISSUED FOR BID
-------------	----------------

CIVIL SOUTH INCORPORATED
Civil & Structural Engineers
415 Shorter Avenue
Rome, Georgia 30165
(770) 548-7929



DATE	15 JUN 2016
SCALE	1" = 20'
DRAWN	MS
CHECKED	MS
PROJECT NO.	2045

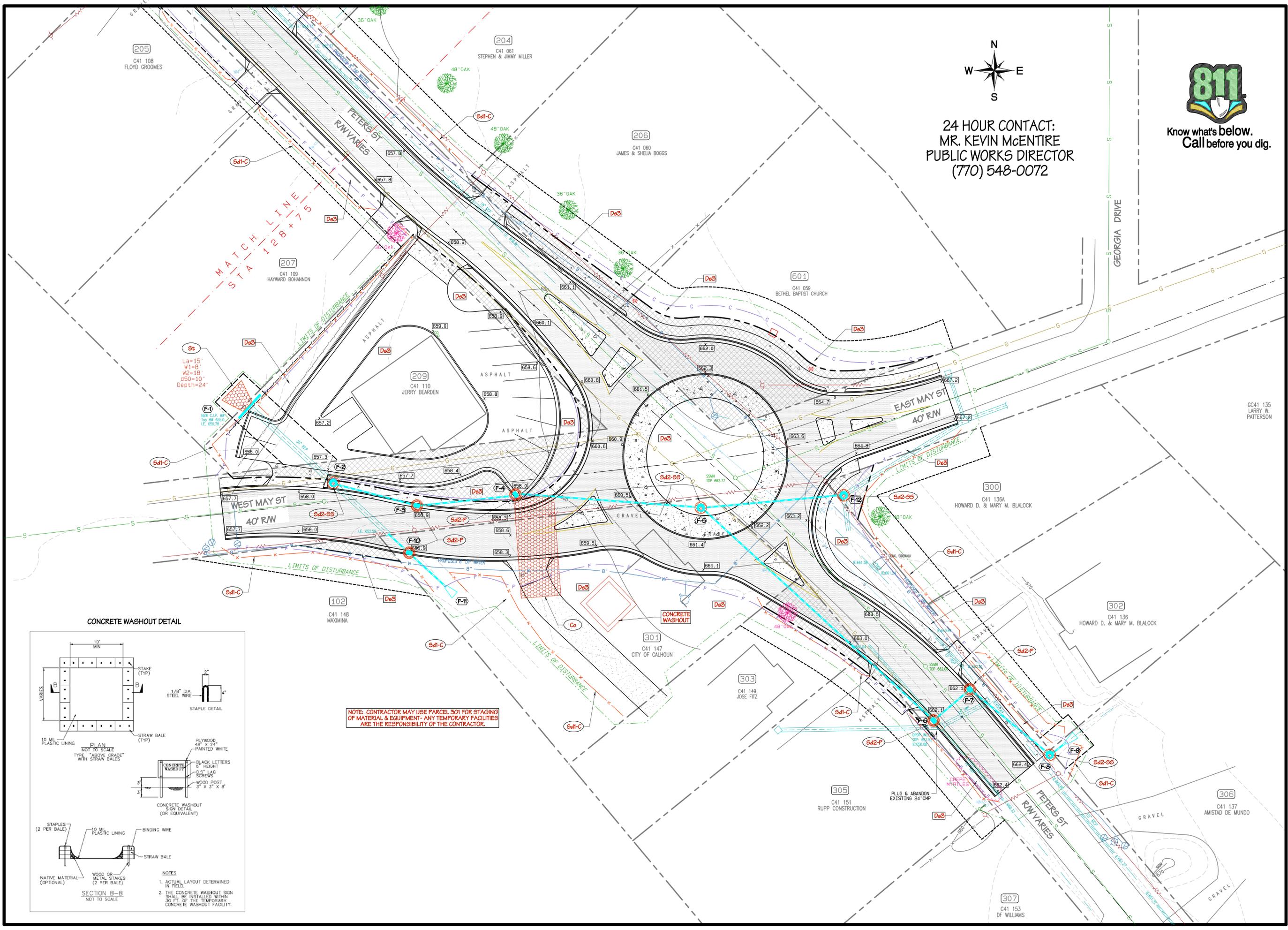


CITY OF CALHOUN
LAND OF THE PINNACLES

STREET IMPROVEMENTS
PETERS STREET PHASE I
CITY OF CALHOUN, GA

EROSION CONTROL PLAN

C - 17



24 HOUR CONTACT:
MR. KEVIN McENTIRE
PUBLIC WORKS DIRECTOR
(770) 548-0072



Know what's below.
Call before you dig.

LEGEND

- Stream / Water
- Fence Line
- Wood Fence
- Guardrail
- Sign
- Benchmark
- Utility Pole
- Valve
- Fire Hydrant
- Single Wing C.B.
- Double Wing C.B.
- Drop (Grate) Inlet
- Area Inlet
- Combination Inlet
- Headwall
- Flared End Sec'n
- Storm Drain
- Manhole / J.B.
- Sanitary Sewer
- Marsh / Wetland

REVISIONS:

15 JUN 2016	ISSUED FOR BID
-------------	----------------

CIVIL SOUTH INCORPORATED
Civil & Structural Engineers
415 Shorter Avenue
Rome, Georgia 30165
(770) 548-7929



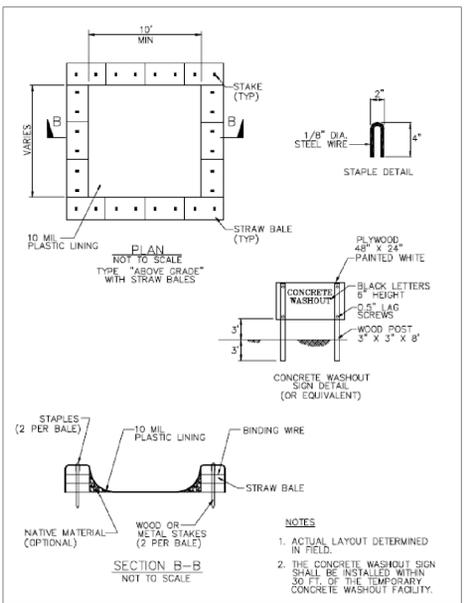
DATE	15 JUN 2016
SCALE	1" = 20'
DRAWN	MS
CHECKED	MS
PROJECT NO.	2045

CITY OF CALHOUN
LAND OF THE CHEROKEE

STREET IMPROVEMENTS
PETERS STREET
PHASE I
CITY OF CALHOUN, GA

EROSION CONTROL PLAN
C-18

CONCRETE WASHOUT DETAIL



NOTE: CONTRACTOR MAY USE PARCEL 301 FOR STAGING OF MATERIAL & EQUIPMENT- ANY TEMPORARY FACILITIES ARE THE RESPONSIBILITY OF THE CONTRACTOR.

APPENDIX B

Nephelometric Turbidity Unit (NTU) TABLES

Site Size, acres	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+
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	80	100

Site Size, acres	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+
1.00-10	75	150	200	400	750	750	750	750
10.01-25	100	100	200	300	500	750	750	750
25.01-50	50	50	100	100	200	300	750	750
50.01-100	50	50	50	100	100	100	300	600
100.01+	50	50	50	50	50	100	200	100

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

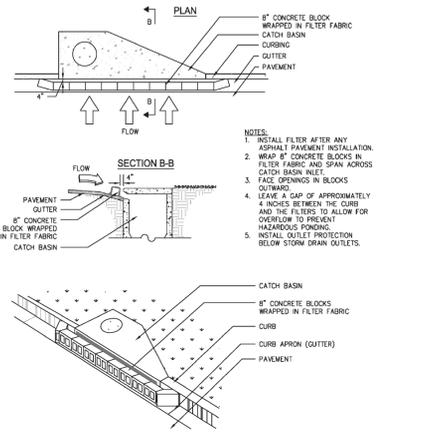
Example 1: For a site size of 12.5 acres and a "trout stream" drainage area of 37.5 square miles, the NTU value to use in Part III.D.4 is 75 NTU.

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.

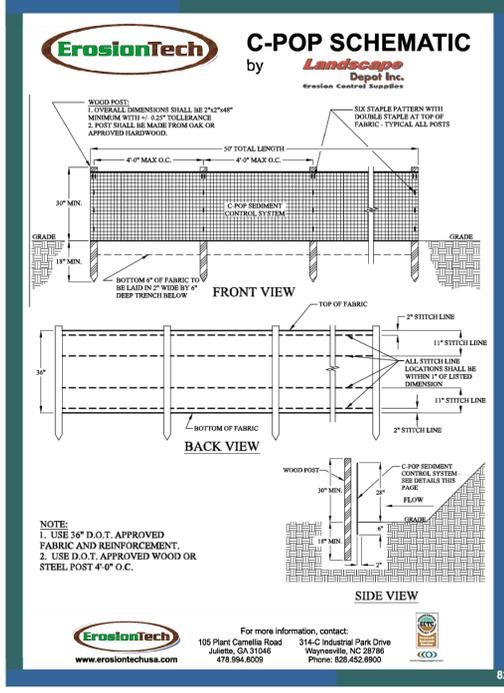
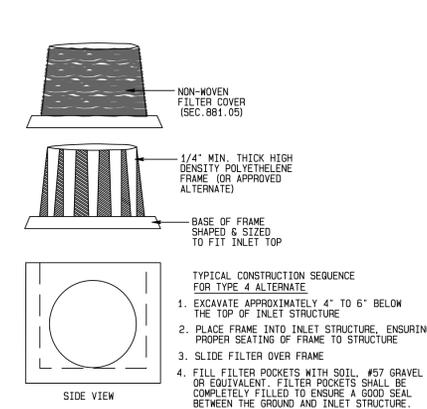
CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Co	CONSTRUCTION EXIT			A crushed stone pad located at the construction site exit to provide a place for removing mud from tires thereby protecting public streets.
Re	RETAINING WALL			A wall installed to stabilize cut and fill slopes where maximum permissible slopes are not obtainable. Each situation will require special design.
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 sediment fence. The barriers are usually temporary and inexpensive.
St	STORM DRAIN INLET/OUTLET PROTECTION			A paved or short section of riprap apron at the outlet of a storm drain system preventing erosion from the concentrated runoff.
Sd2	SEDIMENT TRAP TEMPORARY			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.

CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
De3	DISTURBED AREA STABILIZATION WITH PERMANENT VEGETATION			Establishing temporary protection for disturbed areas where seedings may not have a suitable growing season to produce an erosion retaining cover.
Du	DUST CONTROL ON DISTURBED AREAS			Controlling surface and air movement of dust on construction sites, roadways and similar sites.

CURB INLET FILTER "PIGS IN BLANKET"

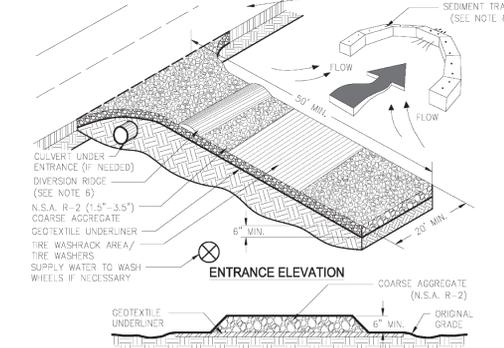


Sd2-P INLET SEDIMENT TRAP N.T.S.

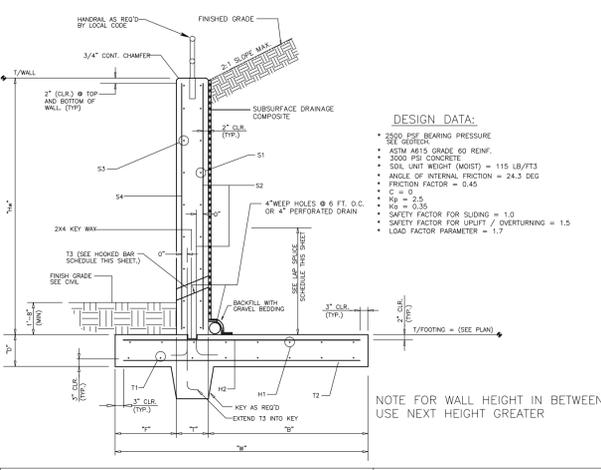
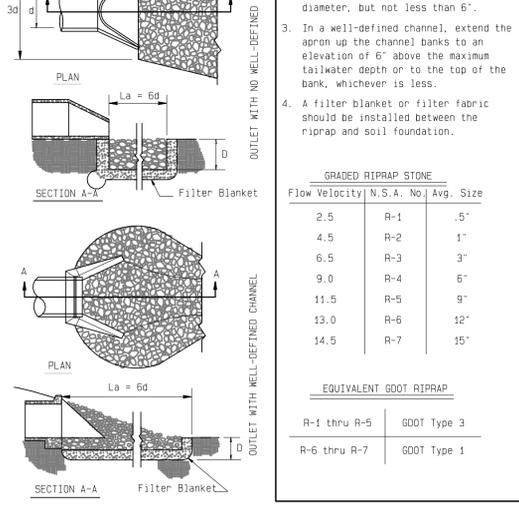


Sd1-C SILT BARRIER - CPOP N.T.S.

Co CRUSHED STONE CONSTRUCTION EXIT EXIT DIAGRAM



St STORM DRAIN OUTLET PROTECTION N.T.S.



RETAINING WALL SCHEDULE FOR SLOPED BACK FILL		2500 PSF (SEE GEOTECH)			
DIMENSIONS					
Hw	T	F	B	W	D
15'-0"	1'-0"	3'-0"	3'-0"	3'-0"	1'-4"
13'-0"	1'-0"	2'-8"	3'-4"	3'-2"	1'-4"
11'-0"	0'-10"	2'-5"	3'-1"	0'-3"	1'-0"
9'-0"	0'-8"	1'-8"	2'-4"	4'-4"	1'-0"
7'-0"	0'-8"	1'-2"	2'-2"	4'-0"	1'-0"
5'-0"	0'-8"	0'-8"	2'-0"	3'-4"	1'-0"

REBAR SIZE & SPACING									
S1	S2	S3	S4	H1	H2	T1	T2	T3	KEY
#4@16"	#7@6"	#4@16"	#5@14"	#4@16"	#7@6"	#4@16"	#5@12"	#5@14"	#15'x24"
#4@16"	#7@6"	#4@16"	#5@14"	#4@16"	#7@6"	#4@16"	#5@12"	#5@14"	#15'x24"
#4@16"	#7@6"	#4@16"	#5@14"	#4@16"	#7@6"	#4@16"	#5@12"	#5@14"	#15'x24"
#4@16"	#7@6"	#4@16"	#5@14"	#4@16"	#7@6"	#4@16"	#5@12"	#5@14"	#15'x24"

HOOKED BAR SCHEDULE			LAP SPICE SCHEDULE		
BAR SIZE	X (IN)	10th (IN)	BAR SIZE	LAP SPICE DIMENSION (IN)	
#4	0'-4"	0'-7 3/4"	#5	1'-2 1/2"	
#5	0'-7 1/2"	0'-9 3/4"	#6	1'-10 1/2"	
#6	0'-9"	0'-11 1/2"	#7	2'-10"	
#7	0'-10 1/2"	1'-1 1/2"			

Re REINFORCED CONCRETE RETAINING WALL N.T.S.

Sd2-SS DROP INLET SEDIMENT TRAP SILT SAVER N.T.S.

De2 TEMPORARY VEGETATIVE COVER PLANTING RATES AND DATES

SPECIES	BROADCAST RATE	J	F	M	A	M	J	J	A	S	O	N	D
BARLEY	144 lbs. per Acre												
LESPEDEA, ANNUAL	40 lbs. per Acre												
PERGRASS, ANNUAL	40 lbs. per Acre												
WHEAT, PEARL	50 lbs. per Acre												
SEALGRASS	60 lbs. per Acre												

TYPE OF SPECIES	AGRICULTURAL LINE	STRAW MULCH	YEAR	N-P-K	RATE
COOL SEASON GRASSES	1 Ton per Acre	N/A	First	10-10-10	500 lbs. per AC.
TEMPORARY COVER CROPS	N/A	N/A	First	10-10-10	500 lbs. per AC.
WARM SEASON GRASSES	1 Ton per Acre	N/A	First	10-10-10	500 lbs. per AC.

De3 PERMANENT VEGETATIVE COVER PLANTING RATES AND DATES

SPECIES	BROADCAST RATE	J	F	M	A	M	J	J	A	S	O	N	D
BANJA, WILSONTON	60 lbs. per Acre												
BERMUDA SPRISS	10 lbs. per Acre												
DOWNWITCH	15 lbs. per Acre												
FEESOLE, TALL	50 lbs. per Acre												
LESPEDEA, SERICEA	60 lbs. per Acre												

TYPE OF SPECIES	AGRICULTURAL LINE	STRAW MULCH	YEAR	N-P-K	RATE
COOL SEASON GRASSES	1 - 2 Tons per Acre	2 Tons per Acre	First	10-10-10	500 lbs. per AC.
TEMPORARY COVER CROPS	N/A	N/A	First	10-10-10	500 lbs. per AC.
WARM SEASON GRASSES	1 - 2 Tons per Acre	2 Tons per Acre	First	10-10-10	500 lbs. per AC.

LEGEND

- Stream / Water
- Fence Line
- Wood Fence
- Guardrail
- Sign
- Benchmark
- Utility Pole
- Valve
- Fire Hydrant
- Single Wing C.B.
- Double Wing C.B.
- Drop (Grate) Inlet
- Area Inlet
- Combination Inlet
- Headwall
- Flared End Sec'n
- Storm Drain
- Manhole / J.B.
- Sanitary Sewer
- Marsh / Wetland

REVISIONS:
15 JUN 2016: ISSUED FOR BID

CIVIL SOUTH INCORPORATED
Civil & Structural Engineers
415 Shorter Avenue
Rome, Georgia 30165
(770) 548-7929

REGISTERED PROFESSIONAL ENGINEER
MARK R. SHAMBLIN
LEVEL II GSNCC # 11395

DATE	15 JUN 2016
SCALE	NOT TO SCALE
DRAWN	MS
CHECKED	MS
PROJECT NO.	2045

CITY OF CALHOUN
LAND OF THE CHESSIE

STREET IMPROVEMENTS
PETERS STREET
PHASE I
CITY OF CALHOUN, GA

EROSION CONTROL DETAILS

C - 19



Know what's below.
Call before you dig.

24 HOUR CONTACT:
MR. KEVIN McENTIRE
PUBLIC WORKS DIRECTOR
(770) 548-0072

4. Inspections.

a. Permittee requirements.

(1). Each day when any type of construction activity has taken place at a primary permittee's site, certified personnel provided by the primary permittee shall inspect (a) all areas at the primary permittee's site where petroleum products are stored, used, or handled for spills and leaks from vehicles and equipment and (b) all locations at the primary permittee's site where vehicles enter or exit the site for evidence of off-site sediment tracking. These inspections must be conducted until a Notice of Termination is submitted.

(2). Measure rainfall once every 24 hours except any non-working Saturday, non-working Sunday and non-working Federal holidays until a Notice of Termination is submitted. Measurement of rainfall may be suspended if all areas of the site have undergone final stabilization or established a crop of annual vegetation and a seeding of target perennial grasses for the region.

(3). Certified personnel (provided by the primary permittee) shall inspect the following at least once every fourteen (14) calendar days and within 24 hours of the end of a storm that is 0.5 inches rainfall or greater (unless such storm ends after 5:00 PM on any Friday or any non-working Saturday, non-working Sunday or any non-working Federal holiday in which case the inspection shall be completed by the end of the next business day and/or working day, whichever occurs first): (a) disturbed areas of the primary permittee's construction site; (b) areas used by the primary permittee for storage of materials that are exposed to precipitation; and (c) structural control measures. Erosion and sediment control measures identified in the Plan applicable to the primary permittee's site shall be observed to ensure that they are operating correctly. Where discharge locations or points are accessible, they shall be inspected to ascertain that erosion control measures are effective in preventing significant impacts to receiving water(s). For areas of a site that have undergone final stabilization or established a crop of annual vegetation and a seeding of target perennial grasses appropriate for the region, the permittee must comply with Part IV.D.4.a.(4). These inspections must be conducted until a Notice of Termination is submitted.

(4). Certified personnel (provided by the primary permittee) shall inspect at least once per month during the term of this permit (i.e., until a Notice of Termination is submitted to EPD) the areas of the site that have undergone final stabilization or established a crop of annual vegetation and a seeding of target perennial grasses appropriate for the region. These areas shall be inspected for evidence of, or the potential for, pollutants entering the drainage system and the receiving water(s). Erosion and sediment control measures identified in the Plan shall be observed to ensure that they are operating correctly. Where discharge locations or points are accessible, they shall be inspected to ascertain whether erosion control measures are effective in preventing significant impacts to receiving water(s).

(5). Based on the results of each inspection, the site description and the pollution prevention and control measures identified in the Erosion, Sedimentation and Pollution Control Plan, the Plan shall be revised as appropriate not later than seven (7) calendar days following each inspection. Implementation of such changes shall be made as soon as practical but in no case later than seven (7) calendar days following each inspection.

(6). A report of each inspection that includes the name(s) of certified personnel making each inspection, the date(s) of each inspection, construction phase (i.e., initial, intermediate or final), major observations relating to the implementation of the Erosion, Sedimentation and Pollution Control Plan, and actions taken in accordance with Part IV.D.4.a.(5), of the permit shall be made and retained at the site or be readily available at a designated alternate location until the entire site or that portion of a construction project that has been phased has undergone final stabilization and a Notice of Termination is submitted to EPD. Such reports shall be ready

available by end of the second business day and/or working day and shall identify all incidents of best management practices that have not been properly installed and/or maintained as described in the Plan. Where this report does not identify any incidents, the inspection report shall contain a statement that the best management practices are in compliance with the Erosion, Sedimentation and Pollution Control Plan. The report shall be signed in accordance with Part V.G.2. of this permit.

5. Maintenance. The Plan shall include a description of procedures to ensure the timely maintenance of erosion, erosion and sediment control measures and other protective measures identified in the plan.

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

a. Sampling Requirements shall include the following:

(1) A USGS topographic map, a topographic map or a drawing (referred to as a topographic map) that is a scale equal to or more detailed than a 1:24000 map showing the location of the infrastructure construction; (a) the location of all perennial and intermittent streams and other water bodies as shown on a USGS topographic map, and all other perennial and intermittent streams and other water bodies located during mandatory field verification, into which the storm water is discharged and (b) the receiving water and/or outfall sampling locations for each representative stormwater outfall. When the permittee has chosen to use a USGS topographic map and the receiving water(s) is not shown on the USGS topographic map, the location of the receiving water(s) must be hand drawn on the USGS topographic map from where the storm water(s) enters the receiving water(s) to the point where the receiving water(s) combines with the first blue line stream shown on the USGS topographic map;

(2). A written narrative of site specific analytical methods used to collect and analyze the samples including quality control/quality assurance procedures. This narrative must include precise sampling methodology for each sampling location;

(3). When the permittee has determined that some or all outfalls will be sampled, a rationale must be included on the Plan for the NTU limit(s) selected from Appendix B. This rationale must include the size of the construction site, the calculation of the size of the surface water drainage area, and the type of receiving water(s) (i.e., trout stream or supporting warm water fisheries); and

(4). Any additional information EPD determines necessary to be part of the Plan. EPD will provide written notice to the permittee of the information necessary and the time line for submittal.

b. Sample Type. All sampling shall be collected by "grab samples" and the analysis of these samples must be conducted in accordance with methodology and test procedures established by 40 CFR Part 136 (unless other test 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.

(1). Sample containers should be labeled prior to collecting the samples.

(2). Samples should be well mixed before transferring to a secondary container.

(3). Large mouth, well cleaned and rinsed glass or plastic jars should be used for collecting samples. The jars should be cleaned thoroughly to avoid contamination.

(4). Manual, automatic or rising stage sampling may be utilized. Samples required by this permit shall 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 or rising stage sampling and automatic sampler samples is not required. Samples may be analyzed directly with a properly calibrated turbidimeter. Samples are not required to be cooled.

(5). Sampling and analysis of the receiving water(s) or outfalls beyond the minimum frequency stated in this permit must be reported to EPD as specified in Part IV.E.

c. Sampling Points.

(1). For construction activities the primary permittee must sample all 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 all outfalls into such streams and other water bodies, or a combination thereof. However, provided for in and in accordance with Part IV.D.6.c.(2), of this permit, primary permittees on an infrastructure construction project may sample the representative perennial and intermittent streams, other water bodies or outfalls, or a combination thereof. 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:

(a). 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 (i.e., the discharge farthest upstream at the site) but downstream of any other storm water discharges not associated with the permitted activity. Where appropriate, several upstream samples from across the receiving water(s) may need to be taken and the arithmetic average of the turbidity of these samples used for the upstream turbidity value.

(b). The downstream sample for each receiving water(s) must be taken downstream of the confluence of the last storm water discharge from the permitted activity (i.e., the discharge farthest downstream at the site) but upstream of any other storm water discharge not associated with the permitted activity. Where appropriate, several downstream samples from across the receiving water(s) may need to be taken and the arithmetic average of the turbidity of these samples used for the downstream turbidity value.

(c). Ideally the sample should be taken from the horizontal and vertical center of the receiving water(s) of the storm water outfall channel(s).

(d). Care should be taken to avoid stirring the bottom sediments in the receiving water(s) or in the outfall storm water channel.

(e). The sampling container should be held so that the opening faces upstream.

(f). The samples should be kept free from floating debris.

(g). Permittees do not have to sample sheetflow that flows onto undisturbed natural areas or areas stabilized by the project. For purposes of this section, stabilized shall mean, for unpaved areas and areas not covered by permanent structures, 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

planned landscaped areas), or equivalent permanent stabilization measures as defined in the Manual including a crop of annual vegetation and a seeding of target 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.

(h). 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.

(2). For infrastructure construction projects, the permittee is not required to sample a perennial or intermittent stream or other water bodies (or the associated outfall, if applicable) if the design professional preparing the Plan certifies that an increase in the turbidity of a specific identified receiving water to be sampled will be representative of the increase in the turbidity of a specific identified un-sampled receiving water. A written justification and detailed analysis shall be prepared by the design professional justifying such proposed sampling. A summary chart of the justification and analysis for the representative sampling must be included on the Plan. The justification and analysis shall include the location and description of the specific sampled and un-sampled receiving water and shall contain a detailed comparison and discussion of each such receiving water in the following areas:

(a). site land disturbances and characteristics;

(b). receiving water watershed sizes and characteristics; and

(c). site and watershed runoff characteristics utilizing the methods in Appendix A-1 (United States Department of Agriculture Soil Conservation Service's TR-55, Urban Hydrology for Small Watersheds) of the most recent version of the Manual for Erosion and Sedimentation Control in Georgia for the various precipitation events and any other such considerations necessary to show that the increase in the turbidity of a specific identified sampled receiving water will be representative of the increase in the turbidity of a specific identified un-sampled receiving water.

(3). For infrastructure construction projects, when the permittee determines that some receiving water(s) will not be sampled due to representative sampling, the design professional making this determination and preparing the Plan must include and sign the following certification in the Plan:

"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 shown on the USGS topographic map and all other field verified perennial or intermittent stream and other water body is not proposed to be sampled, I have determined in my professional judgment, utilizing the factors required in the General NPDES Permit No. GAR 100002, 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). For infrastructure construction projects, if at any time during the life of the project a selected receiving water no longer represents another receiving water, then the permittee shall sample the latter receiving water until selection of an alternative representative receiving water.



Know what's below.
Call before you dig.

24 HOUR CONTACT:
MR. KEVIN McENTIRE
PUBLIC WORKS DIRECTOR
(770) 548-0072

LEGEND

- Stream / Water
- Fence Line
- Wood Fence
- Guardrail
- Sign
- Benchmark
- Utility Pole
- Valve
- Fire Hydrant
- Single Wing C.B.
- Double Wing C.B.
- Drop (Grate) Inlet
- Area Inlet
- Combination Inlet
- Headwall
- Flared End Sec'n
- Storm Drain
- Manhole / J.B.
- Sanitary Sewer
- Marsh / Wetland

REVISIONS:
15 JUN 2016: ISSUED FOR EID

(5). For infrastructure construction projects, if at any time during the life of the project a receiving water is determined not to be represented as certified in the Plan, the permittee shall sample that receiving water until a Notice of Termination is submitted or until the applicable phase is stabilized in accordance with this permit.

(6). For infrastructure construction projects, monitoring obligations shall cease for any phase of the project that has been stabilized in accordance with Part IV.D.6.c.(1),(g).

d. Sampling Frequency.

(1). The primary permittee must sample in accordance with the Plan at least once for each rainfall event described below. For a qualifying event, the permittee shall sample at the beginning of any storm water discharge to a monitored receiving water and/or from a monitored outfall location within forty-five (45) minutes or as soon as possible.

(2). However, where manual and automatic sampling are impossible (as defined in this permit), or are beyond the permittee's control, the permittee shall take samples as soon as possible, but in no case more than twelve (12) hours after the beginning of the storm water discharge.

(3). Sampling by the permittee shall occur for the following qualifying events:

(a). For each area of the site that discharges to a receiving water or from an outfall, the first rain event that reaches or exceeds 0.5 inch with a storm water discharge that occurs during normal business hours as defined in this permit, after all clearing and grubbing operations have been completed, but prior to completion of mass grading operations, in the drainage area of the location selected as the representative sampling location;

(b). In addition to (a) above, for each area of the site that discharges to a receiving water or from an outfall, the first rain event that reaches or exceeds 0.5 inch with a storm water discharge that occurs during normal business hours as defined in this permit, either 90 days after the first sampling event or after all mass grading operations have been completed, but prior to submittal of a NOT, in the drainage area of the location selected as the representative sampling location, whichever comes first;

(c). At the time of sampling performed pursuant to (a) and (b) above, if BMPs in any area of the site that discharges to a receiving water or from an outfall are not properly designed, installed and maintained, corrective action shall be defined and implemented within two (2) business days, and turbidity sampling shall be taken from discharges from that area of the site for each subsequent rain event that reaches or exceeds 0.5 inch during normal business hours until the selected turbidity standard is attained, or until post-storm event inspections determine that BMPs are properly designed, installed and maintained.

(d). Where sampling pursuant to (a), (b) or (c) above is required but not possible (or not required because there was no discharge), the permittee, in accordance with Part IV.D.4.a.(6), must include a written justification in the inspection report of why sampling was not performed. Providing this justification does not relieve the permittee of any subsequent sampling obligations under (a), (b) or (c) above, and

(e). Existing construction activities, i.e., those that are occurring on or before the effective date of this permit, that have met the sampling required by (a) above shall sample in accordance with (b). Those existing construction activities that have met the sampling required by (b) above shall not be required to conduct additional sampling other than as required by (c) above.

*Note that the Permittee may choose to meet the requirements of (a) and (b) above by collecting turbidity samples from any rain event that reaches or exceeds 0.5 inch and allows for sampling at any time of the day or week.

7. Non-storm water discharges. Except for flows from fire fighting activities, sources of non-storm water listed in Part III.A.2, of this permit that are combined with storm water discharges associated with construction activity must be identified in the Plan. The Plan shall identify and ensure the implementation of appropriate pollution prevention measures for the non-storm water component(s) of the discharge.

E. Reporting.

1. The applicable permittees are required to submit the sampling results to the EPD at the address shown in Part III.A.2, of this permit, 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. The sampling reports must be signed in accordance with Part V.G.2. Sampling reports must be submitted to EPD until such time as a NOT is submitted in accordance with Part VI.

2. All sampling reports shall include the following information:

- a. The rainfall amount, date, exact place and time of sampling or measurements;
- b. The name(s) of certified personnel who performed the sampling and measurements;
- c. The date(s) analyses were performed;
- d. The time(s) analyses were initiated;
- e. The name(s) of the certified personnel who performed the analyses;
- f. References and written procedures, when available, for the analytical techniques or methods used;
- g. The results of such analyses, including the bench sheets, instrument readouts, computer disks or tapes, etc., used to determine these results;
- h. Results which exceed 1000 NTU shall be reported as "exceeds 1000 NTU"; and
- i. Certification statement that sampling was conducted as per the Plan.

3. 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 at the construction site until a copy of the 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.

F. Retention of Records

1. The primary permittee shall retain the following records at the construction site or the records shall be readily available at a designated alternate location from commencement of construction until such time as a NOT is submitted in accordance with Part VI:

- a. A copy of all Notices of Intent submitted to EPD;
- b. A copy of the Erosion, Sedimentation and Pollution Control Plan required by this permit;
- c. The design professional's report of the results of the inspection conducted in accordance with Part IV.A.5, of this permit;
- d. A copy of all sampling information, results, and reports required by this permit;
- e. A copy of all inspection reports generated in accordance with Part IV.D.4.a. of this permit;

1. A copy of all violation summaries and violation summary reports generated in accordance with Part III.D.2. of this permit; and

2. Daily rainfall information collected in accordance with Part IV.D.4.a.(2), of this permit.

2. Copies of all Notices of Intent, Notices of Termination, inspection reports, sampling reports (including all calibration and maintenance records and all original strip chart recordings for continuous recording instruments), 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 and used for a period of at least three years from the date that the NOT is submitted in accordance with Part VI of this permit. These records must be maintained at the permittee's primary place of business or at a designated alternate location once the construction activity has ceased at the permitted site. This period may be extended by request of the EPD at any time upon written notification to the permittee.

CONSTRUCTION ACTIVITY SCHEDULE

ACTIVITY	2016					
	J	J	A	S	O	N
INITIAL BMP'S						
INSTALL CONSTRUCTION EOT						
PERIMETER SILT BARRIERS						
SIGNAGE FOR ROAD CLOSURE						
DISCONNECT AFFECTED UTILITIES						
ACTIVE GRADING						
MAINTAIN INITIAL BMP'S						
BEGIN LANE CLOSURES FOR SINGLE-LANE TRAFFIC						
CONSTRUCT STORM DRAINAGE SYSTEMS						
RE-WORK ROAD PROFILE AS NEEDED						
CONSTRUCT ROUNDABOUT						
INSTALL OUTLET PROTECTION						
CURB AND GUTTER / DRAINWAYS						
INSTALL SIDEWALK W/ DRAINWAY APRONS						
FINAL STABILIZATION						
MAINTAIN INITIAL AND ACTIVE GRADING BMP'S						
PAVE REMAINING SANDER / ASPHALT BASE						
PERMANENT GRASSING OF ANY REMAINING AREAS						
REMOVE EXCESS MATERIAL & STOCKPILES						
REMOVE TEMPORARY SEDIMENT BMP'S						

HAZARDOUS WASTES:

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

SOIL CLEANUP AND CONTROL PRACTICES:

- * LOCAL, STATE, AND MANUFACTURER'S RECOMMENDED METHODS FOR SPILL CLEANUP WILL BE CLEARLY POSTED AND PROCEDURES WILL BE MADE AVAILABLE TO SITE PERSONNEL.
 - * MATERIAL AND EQUIPMENT NECESSARY FOR SPILL CLEANUP WILL BE KEPT IN THE MATERIAL STORAGE AREAS. TYPICAL MATERIALS AND EQUIPMENT INCLUDES, BUT IS NOT LIMITED TO, BROOMS, DUSTPANS, MAPS, RAGS, GLOVES, GOGGLES, CAT LITTER, SAND, SANDWICH AND PROPERLY LABELED PLASTIC AND METAL WASTE CONTAINERS.
 - * SPILL PREVENTION PRACTICES AND PROCEDURES WILL BE REVIEWED AFTER A SPILL AND ADJUSTED AS NECESSARY TO PREVENT FUTURE SPILLS.
 - * ALL SPILLS WILL BE CLEANED UP IMMEDIATELY UPON DISCOVERY. ALL SPILLS WILL BE REPORTED AS REQUIRED BY LOCAL, STATE, AND FEDERAL REGULATIONS.
 - * FOR SPILLS THAT IMPACT SURFACE WATER (LEAVE A SHEEN ON SURFACE WATER), THE NATIONAL RESPONSE CENTER (NRC) WILL BE CONTACTED WITHIN 24 HOURS AT 1-800-426-2675.
 - * FOR SPILLS OF AN UNKNOWN AMOUNT, THE NATIONAL CENTER (NRC) WILL BE CONTACTED WITHIN 24 HOURS AT 1-800-426-2675.
 - * FOR SPILLS GREATER THAN 25 GALLONS AND NO SURFACE WATER IMPACTS, THE GEORGIA EPD WILL BE CONTACTED WITHIN 24 HOURS.
 - * FOR SPILLS LESS THAN 25 GALLONS AND NO SURFACE WATER IMPACTS, THE SPILL WILL BE CLEANED UP AND LOCAL AGENCIES WILL BE CONTACTED AS REQUIRED.
- THE CONTRACTOR SHALL NOTIFY THE LICENSED PROFESSIONAL WHO PREPARED THIS PLAN IF MORE THAN 1500 GALLONS OF PETROLEUM IS STORED ONSITE (THIS INCLUDES CAPACITIES OF EQUIPMENT) OR IF ANY ONE PIECE OF EQUIPMENT HAS A CAPACITY GREATER THAN 500 GALLONS. THE CONTRACTOR WILL NEED A SPILL PREVENTION CONTAINMENT AND COUNTERMEASURES PLAN PREPARED BY THAT LICENSED PROFESSIONAL.

SANITARY WASTES:

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

POLLUTANT CONTROL MEASURES:

WORK INCLUDES INSTALLATION OF PERMANENT GRASSING AND PERIMETER EROSION CONTROL MEASURES TO PREVENT THE TRANSPORT OF SEDIMENTS ON GRADED AREAS. ALL OUTLETS ARE TO BE MAINTAINED FREE OF TRACKED DIRT. OUTLETS ARE TO BE PROVIDED WITH STONE OUTLET PROTECTION.

PRODUCT SPECIFIC PRACTICES:

POTENTIAL SOURCES OF STORM WATER POLLUTION EXPECTED TO BE PRESENT AT THIS SITE INCLUDE CONSTRUCTION VEHICLES, MACHINERY, PAINTS, FINISHES, SOLVENTS, CONCRETE TRUCKS, FERTILIZER, HERBICIDES, AND BUILDING MATERIALS. PETROLEUM BASED PRODUCTS CONTAINERS FOR PRODUCTS SUCH AS FUELS, LUBRICANTS AND TARS WILL BE INSPECTED DAILY FOR LEAKS AND SPILLS. THIS INCLUDES ON-SITE VEHICLES AND MACHINERY DAILY INSPECTIONS AND REGULAR PREVENTATIVE MAINTENANCE OF SUCH EQUIPMENT. EQUIPMENT MAINTENANCE AREAS WILL BE LOCATED AWAY FROM STATE WATER, NATURAL DRAINS AND STORM WATER DRAINAGE INLETS. IN ADDITION, TEMPORARY FUELING TANKS SHALL HAVE A SECONDARY CONTAINMENT LINE TO PREVENT/MINIMIZE SITE CONTAMINATION. DISCHARGE OF OILS, FUELS AND LUBRICANTS IS PROHIBITED. PROPER DISPOSAL METHODS WILL INCLUDE COLLECTION IN A SUITABLE CONTAINER AND DISPOSAL AS REQUIRED BY LOCAL AND STATE REGULATIONS. PAINTS/FINISHES/SOLVENTS ALL PRODUCTS WILL BE STORED IN TIGHTLY SEALED ORIGINAL CONTAINERS WHEN NOT IN USE. EXCESS PRODUCTS WILL NOT BE DISCHARGED TO THE STORM WATER COLLECTION SYSTEM. EXCESS PRODUCT MATERIALS USED WITH THESE PRODUCTS AND PRODUCT CONTAINERS WILL BE DISPOSED OF ACCORDING TO MANUFACTURER S SPECIFICATIONS AND RECOMMENDATIONS. CONCRETE TRUCK WASHING NO CONCRETE TRUCKS WILL BE ALLOWED TO WASH OUT OR DISCHARGE SURPLUS CONCRETE OR DRINK WASH WATER ONSITE EXCEPT DELINEATED WASHOUT LOCATION. THE MANUFACTURER S SPECIFICATIONS OR ABOVE THE GUIDELINES SET FORTH IN THE CROP ESTABLISHMENT OR IN THE GSWCC MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA. ANY STORAGE OF THESE MATERIALS WILL BE UNDER ROOF IN SEALED CONTAINERS. ALL OUTLETS AND DRAINAGE SYSTEMS SHALL BE MAINTAINED FREE OF TRACKED DIRT. ALL SUCH MATERIAL WILL BE DISPOSED OF IN PROPER WASTE DISPOSAL PROCEDURES.

WASTE MATERIALS:

NO WASTE WILL BE DISPOSED OF INTO STORM WATER INLETS OR WATERS OF THE STATE. ALL WASTE MATERIALS WILL BE COLLECTED AND STORED IN A SECURELY LOADED 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 PER WEEK OR MORE OFTEN IF NECESSARY AND TRASH WILL BE HAULED AS REQUIRED BY LOCAL REGULATIONS. NO CONSTRUCTION WASTE WILL BE BURIED ONSITE. ALL PERSONNEL WILL BE INSTRUCTED ON PROPER PROCEDURES FOR WASTE DISPOSAL. A NOTICE STATING THESE PRACTICES WILL BE POSTED AT THE JOBSITE AND THE CONTRACTOR WILL BE RESPONSIBLE FOR SEEING THAT THESE PROCEDURES ARE FOLLOWED.

DUST CONTROL ON DISTURBED AREAS ^{Du}

DUST CONTROL WILL BE MAINTAINED BY TEMPORARY AND PERMANENT METHODS (E.G., USE OF SEED) AS NOTED ON EROSION CONTROL SHEETS C-13 THRU C-18. IN ADDITION THE CONTRACTOR SHALL USE WATER TRUCKS TO WET THE SURFACE OF HIGH TRAFFIC AREAS TO MINIMIZE DUST.

NATURE OF CONSTRUCTION:

LOCATED JUST SOUTH OF DOWNTOWN CALHOUN, PETERS STREET IS A MINOR COLLECTOR ROAD WHICH SERVES SEVERAL RESIDENTIAL AREAS AS WELL AS THE NEW CALHOUN ELEMENTARY SCHOOL. THE ROADWAY CROSSES AN UNNAMED TRIBUTARY (NO. 1) OF OOTHCALDOGA CREEK VIA AN EXISTING MULTI-BARREL CULVERT WHICH IS NOT TO BE MODIFIED AS A PART OF THIS PROJECT. PHASE I OF THE STREET IMPROVEMENTS BEGIN AT THE EASTERN LIMITS OF PREVIOUS INTERSECTION IMPROVEMENTS AT US 41/SP 3/ WALL STREET AND CONTINUE EAST JUST BEYOND MAY STREET. A NEW ROUNDABOUT INTERSECTION IS PROPOSED AT MAY STREET TO ALLEVIATE SOME OF THE CONGESTION OF THE INTERSECTION AND TO ACCOMMODATE INCREASED SCHOOL TRAFFIC ON EAST MAY STREET.

THE EXISTING STREET IS SOMEWHAT NARROW WITH MINIMAL SHOULDERS, ROADSIDE DITCHES AND NO PEDESTRIAN FACILITIES. THE PROPOSED ROAD IMPROVEMENTS INCLUDE A SIDEWALK WITH A SIDEWALK PROPOSED WITH A SIDEWALK PROPOSED ON THE UN-WIDENED SIDE. SOME MINOR GRADE CHANGES WILL BE REQUIRED TO ENSURE PROPER DRAINAGE OF THE STREET.

DESIGN PROFESSIONAL 7-DAY VISIT CERTIFICATION:

THE DESIGN PROFESSIONAL MUST BE RETAINED BY THE PRIMARY PERMITTEE TO CONDUCT A SITE INSPECTION WITHIN SEVEN (7) DAYS AFTER PERIMETER SEDIMENT STORAGE BMPS ARE INSTALLED TO VERIFY BMPS HAVE BEEN INSTALLED AS DESIGNED AND ARE BEING MAINTAINED AS REQUIRED BY THE PLAN AND THE GREEN BOOK. THE DESIGN PROFESSIONAL MUST REPORT RESULTS OF THE INSPECTION TO THE PRIMARY PERMITTEE WITHIN SEVEN (7) DAYS AND THE PRIMARY MUST CORRECT ALL DEFICIENCIES IDENTIFIED IN THE REPORT WITHIN 2 (2) BUSINESS DAYS AFTER RECEIVING THE REPORT (UNLESS ADDITIONAL TIME IS NEEDED DUE TO ADVERSE WEATHER). THE PRIMARY PERMITTEE MAY USE AN ALTERNATE DESIGN PROFESSIONAL TO CONDUCT BMP INSPECTION, PROVIDED THAT THEY MAKE A WRITTEN REQUEST TO EPD TO CHANGE FROM THE DESIGN PROFESSIONAL WHO DEVELOPED THE PLAN AND EPD HAS AGREED.

DATE OF INSPECTION: _____

I CERTIFY THE SITE WAS IN COMPLIANCE WITH THE ES & PC PLAN ON THE DATE OF INSPECTION.

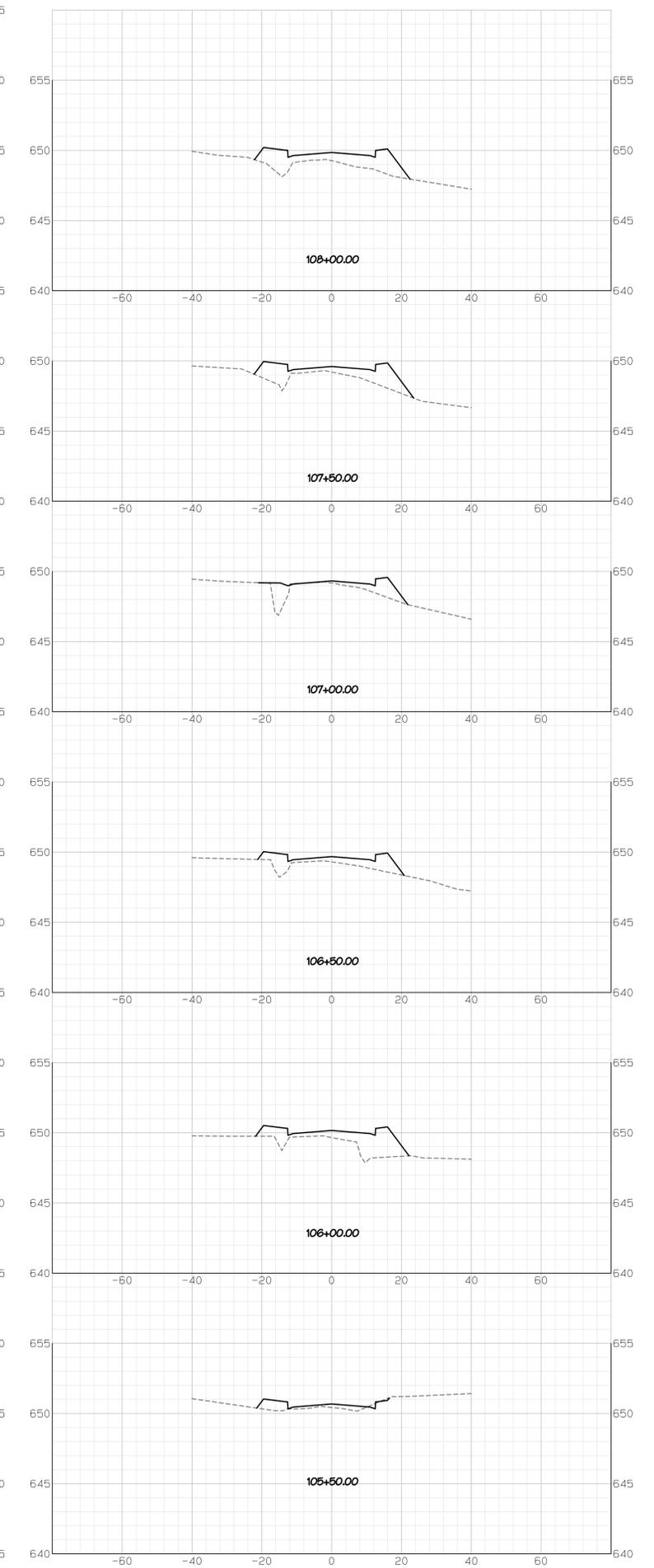
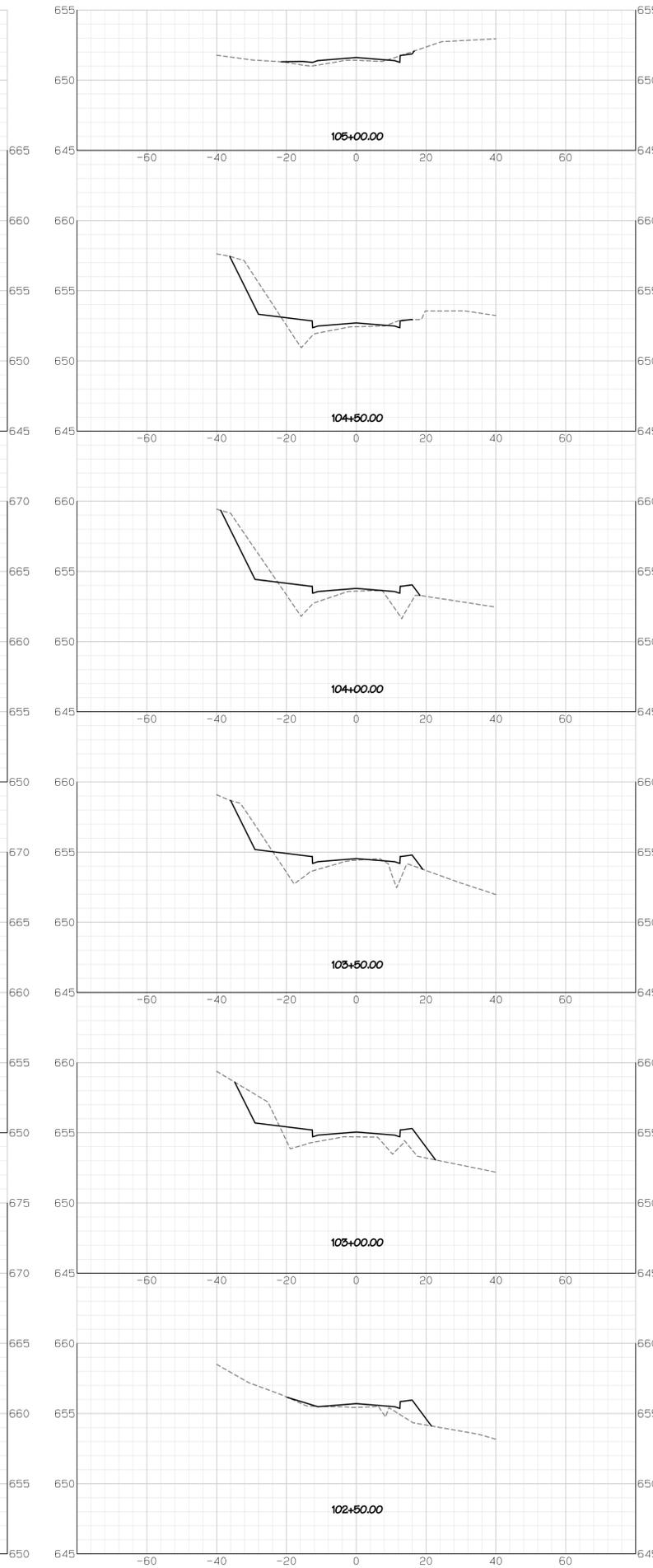
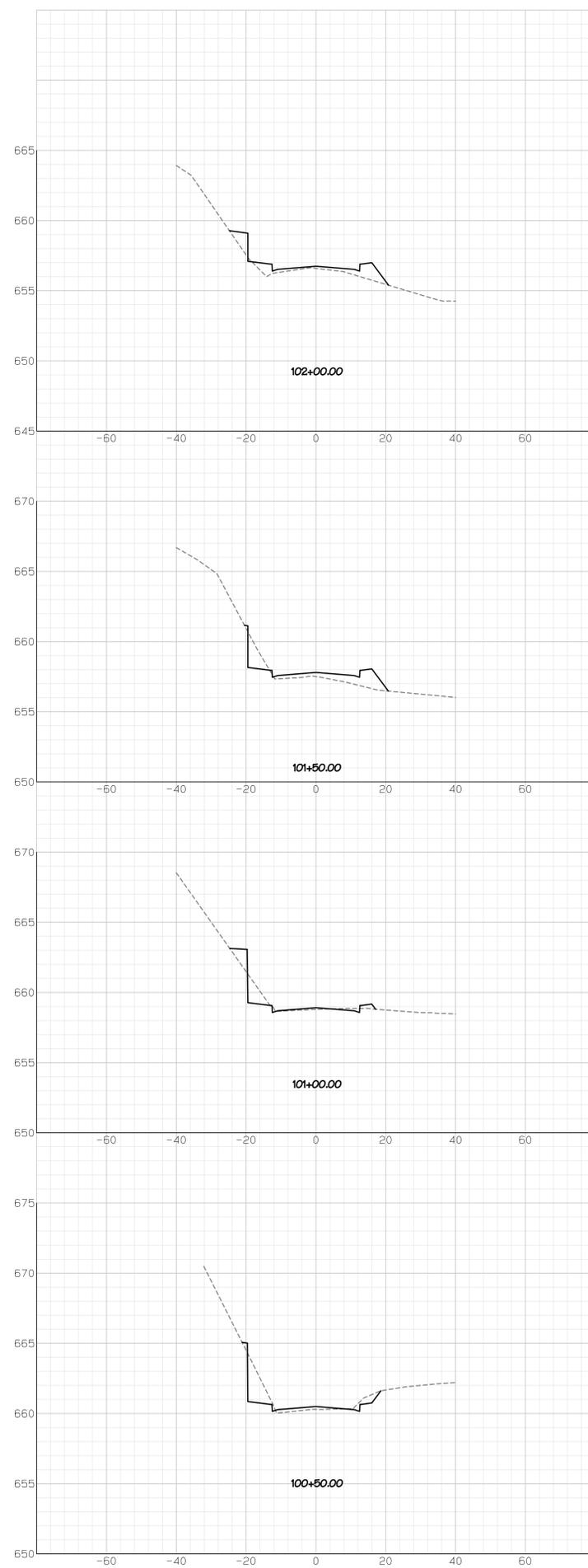
MARK R. SHAMBLIN, P.E., REGISTRATION NO. 23794

LEVEL II EROSION CERTIFICATION NO. 11395

INSPECTION REVEALED THE FOLLOWING DISCREPANCIES FROM THE ES & PC PLAN.

THESE DEFICIENCIES MUST BE ADDRESSED IMMEDIATELY AND A RE-INSPECTION SCHEDULED. WORK SHALL NOT PROCEED ON THE SITE UNTIL DESIGN PROFESSIONAL CERTIFICATION IS OBTAINED.

CIVIL SOUTH
INCORPORATED
Civil & Structural Engineers
445 Shorter Avenue
Rome, Georgia 30165
(770) 548-7929



- LEGEND**
- Stream / Water
 - x- Fence Line
 - Wood Fence
 - |-| Guardrail
 - Sign
 - Benchmark
 - Utility Pole
 - ▽ Valve
 - ⊕ Fire Hydrant
 - ▱ Single Wing C.B.
 - ▭ Double Wing C.B.
 - ▧ Drop (Grate) Inlet
 - ▨ Area Inlet
 - ▩ Combination Inlet
 - ▭ Headwall
 - ▭ Flared End Sec'n
 - Storm Drain
 - ⊙ Manhole / J.B.
 - Sanitary Sewer
 - ▭ Marsh / Wetland

REVISIONS:
15 JUN 2016: ISSUED FOR BID

CIVIL SOUTH
INCORPORATED
Civil & Structural Engineers
415 Shorter Avenue
Rome, Georgia 30165
(770) 548-7929



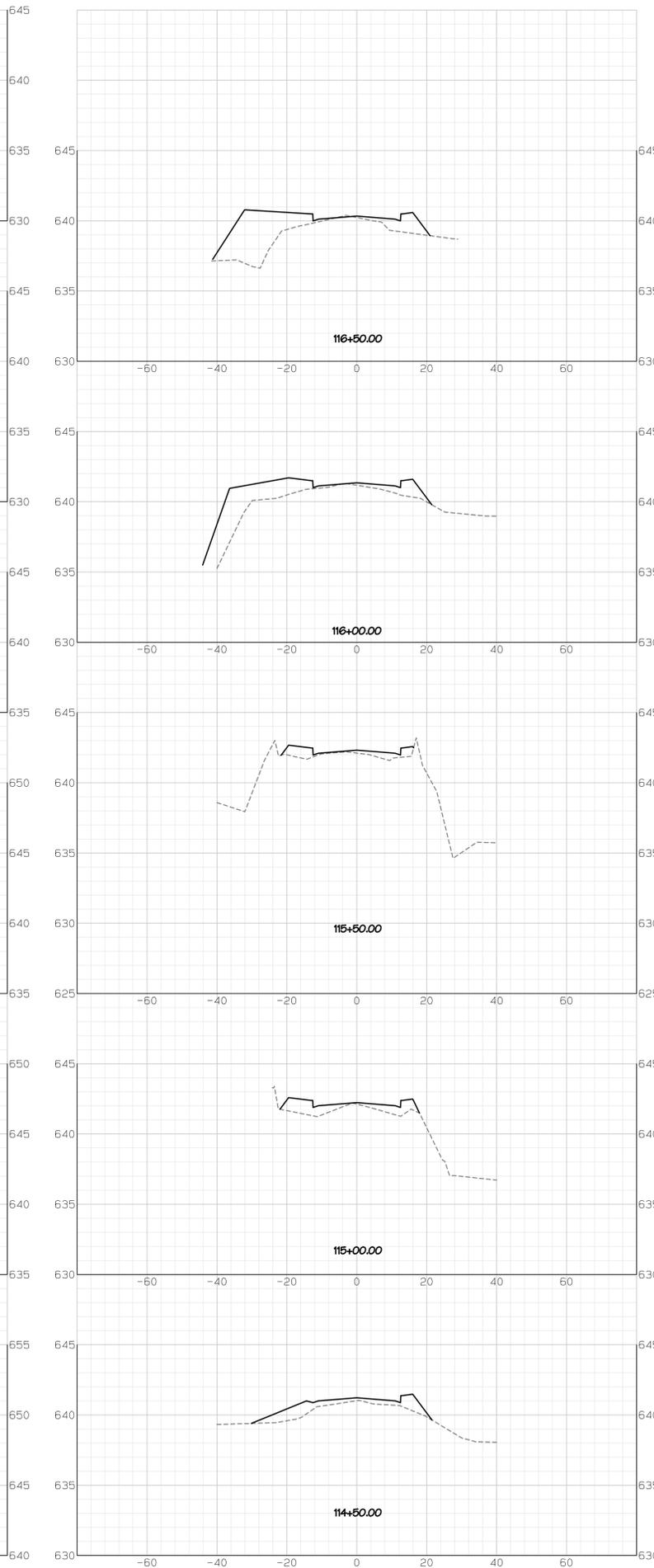
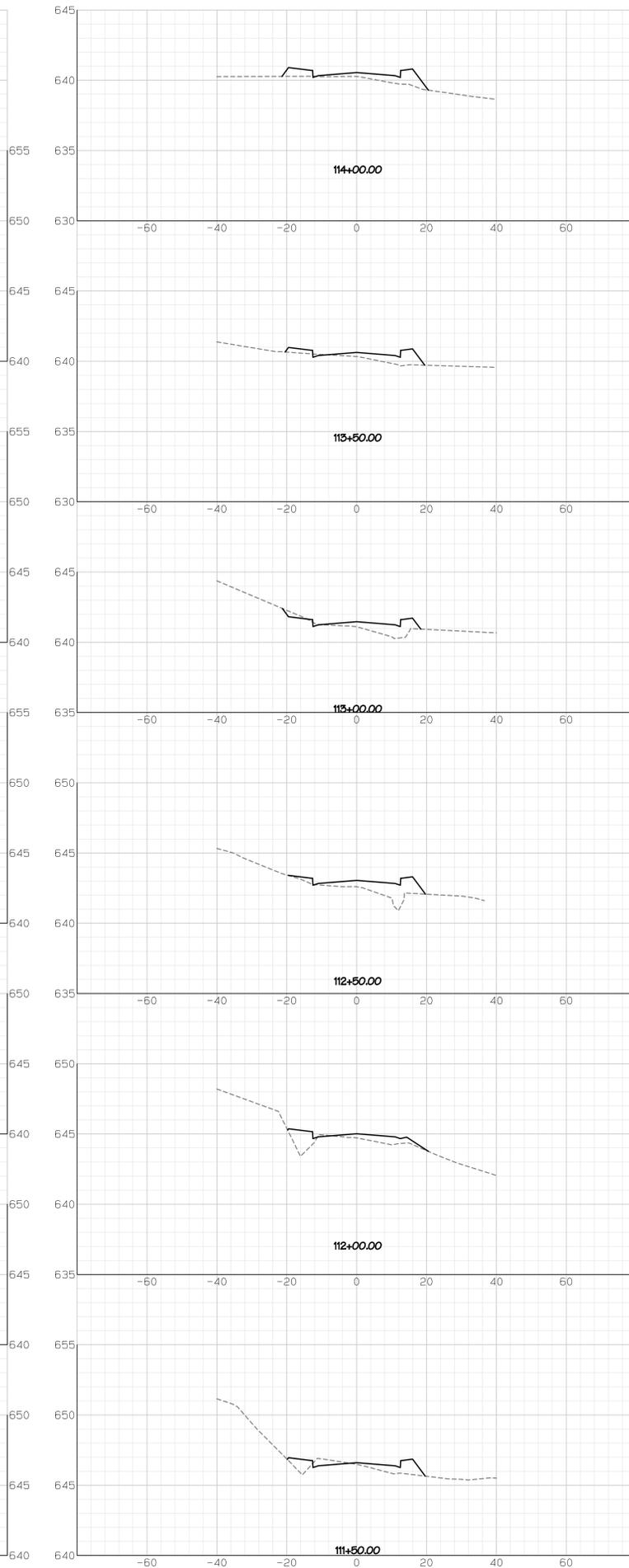
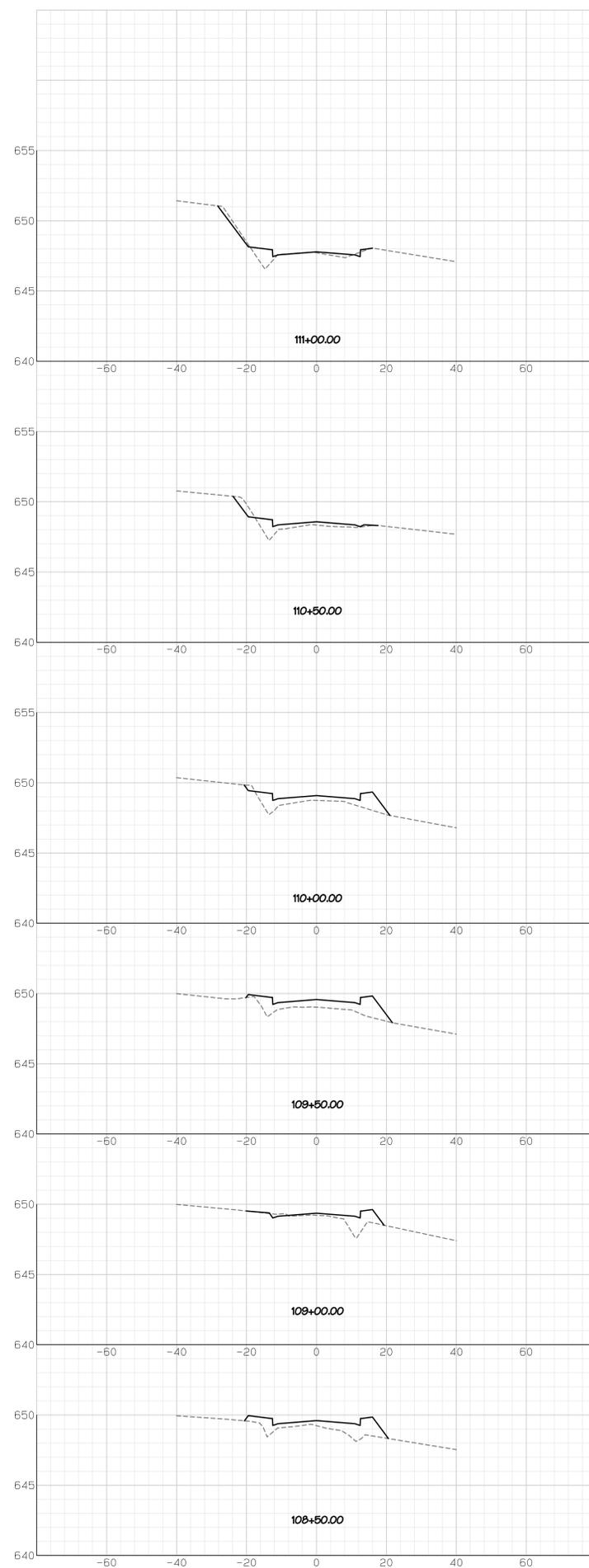
DATE	15 JUN 2016
SCALE	1"=20'H 1"=5'V
DRAWN	MS
CHECKED	MS
PROJECT NO.	2045

CITY OF CALHOUN
LAND OF THE CHEVROLE
STREET IMPROVEMENTS
PETERS STREET
PHASE I
CITY OF CALHOUN, GA
CROSS SECTIONS
STA 100+50 TO
STA 108+00
C-22



Know what's below.
Call before you dig.

24 HOUR CONTACT:
MR. KEVIN McENTIRE
PUBLIC WORKS DIRECTOR
(770) 548-0072



- LEGEND**
- Stream / Water
 - x- Fence Line
 - x- Wood Fence
 - x- Guardrail
 - Sign
 - Benchmark
 - Utility Pole
 - ▽ Valve
 - Fire Hydrant
 - ▽ Single Wing C.B.
 - ▽ Double Wing C.B.
 - Drop (Grate) Inlet
 - Area Inlet
 - Combination Inlet
 - ▭ Headwall
 - ▭ Flared End Sec'n
 - Storm Drain
 - Manhole / J.B.
 - Sanitary Sewer
 - Marsh / Wetland

REVISIONS:
15 JUN 2016: ISSUED FOR BID

CIVIL SOUTH INCORPORATED
Civil & Structural Engineers
415 Shorter Avenue
Rome, Georgia 30165
(770) 548-7929



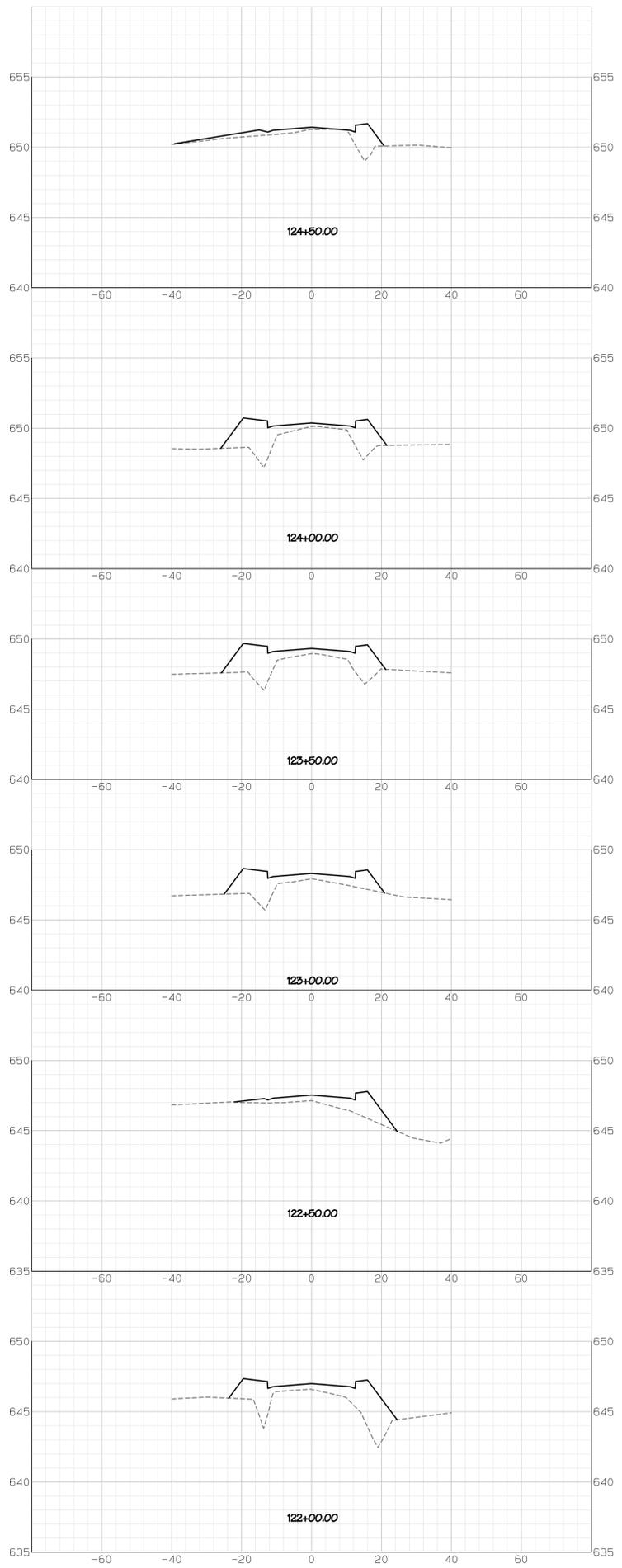
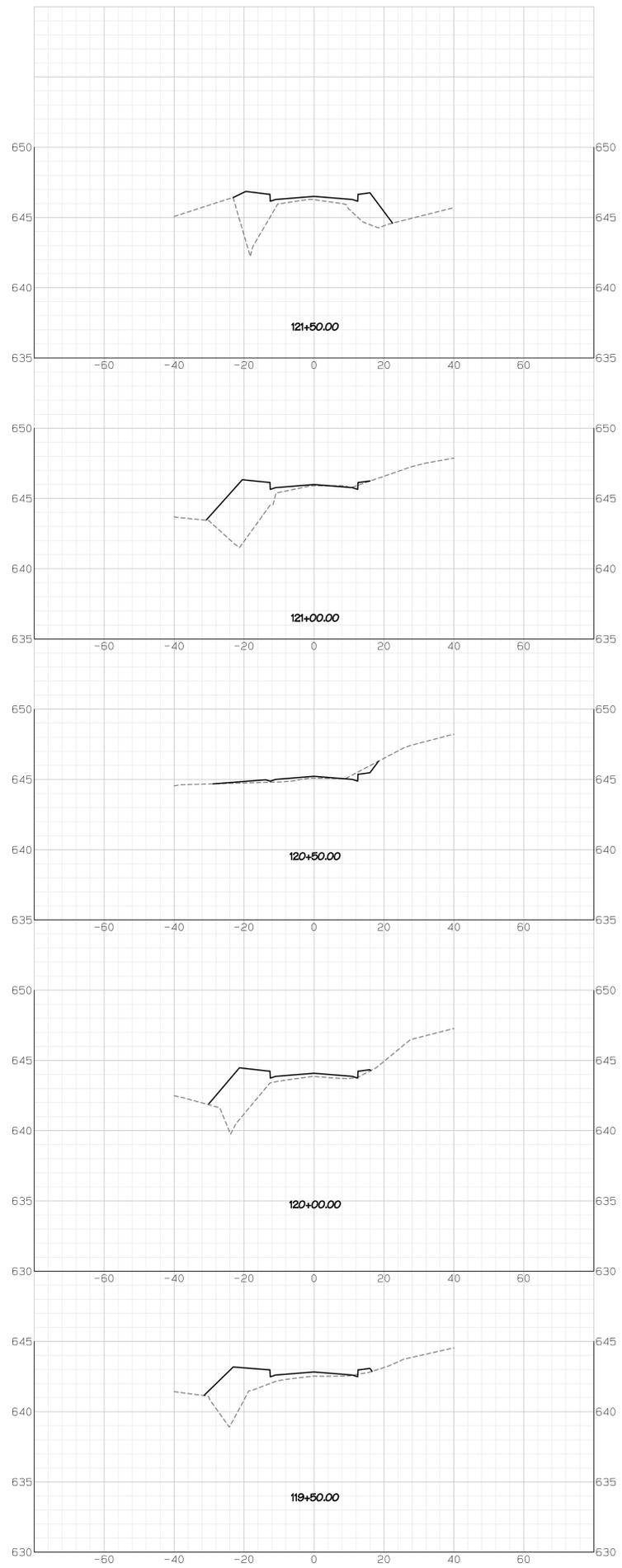
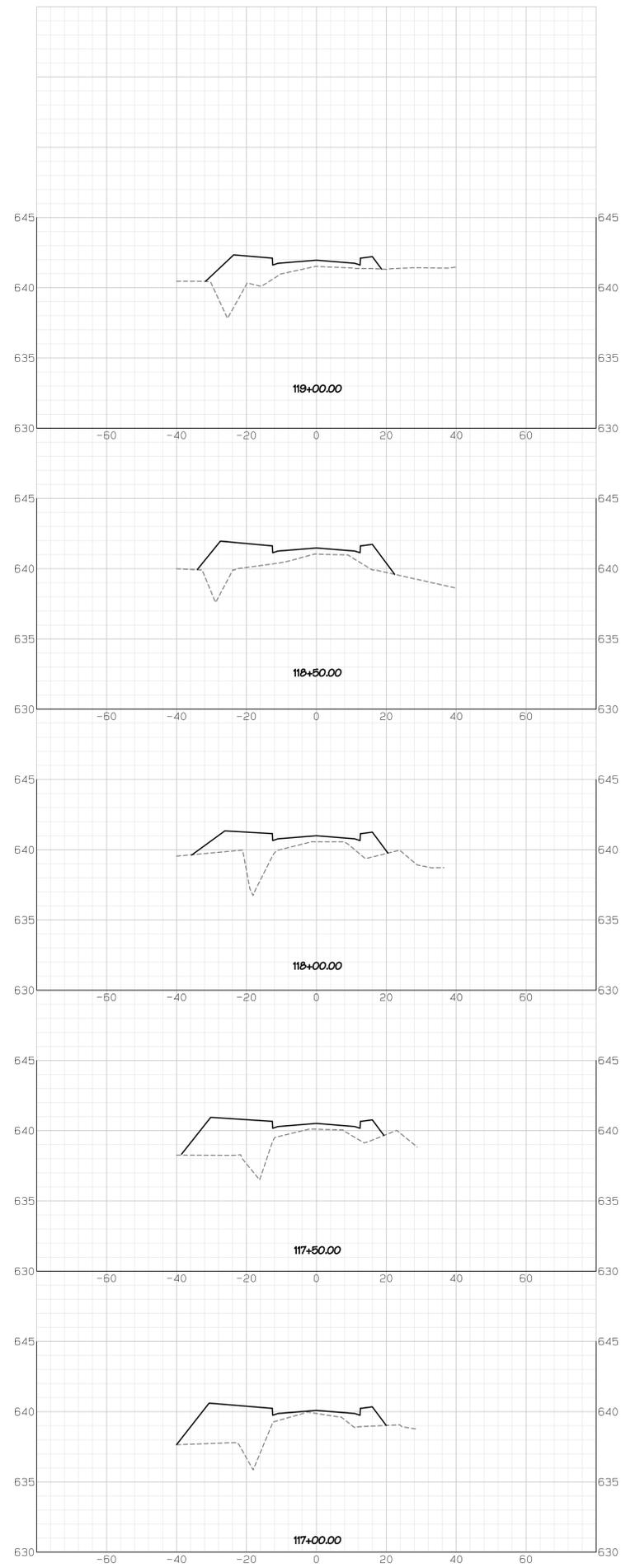
DATE	15 JUN 2016
SCALE	1"=20'H 1"=5'V
DRAWN	MS
CHECKED	MS
PROJECT NO.	2045



Know what's below.
Call before you dig.

24 HOUR CONTACT:
MR. KEVIN McENTIRE
PUBLIC WORKS DIRECTOR
(770) 548-0072

CITY OF CALHOUN
LAND OF THE CHEVROLE
STREET IMPROVEMENTS
PETERS STREET
PHASE I
CITY OF CALHOUN, GA
CROSS SECTIONS
STA 108+50 TO
STA 116+50
C-23



- LEGEND**
- Stream / Water
 - x- Fence Line
 - x- Wood Fence
 - x- Guardrail
 - Sign
 - Benchmark
 - Utility Pole
 - ▽ Valve
 - ⊕ Fire Hydrant
 - Single Wing C.B.
 - Double Wing C.B.
 - Drop (Grate) Inlet
 - Area Inlet
 - Combination Inlet
 - Headwall
 - Flared End Sec'n
 - Storm Drain
 - ⊙ Manhole / J.B.
 - Sanitary Sewer
 - Marsh / Wetland

REVISIONS:
15 JUN 2016: ISSUED FOR BID

CIVIL SOUTH
INCORPORATED
Civil & Structural Engineers
415 Shorter Avenue
Rome, Georgia 30165
(770) 548-7929



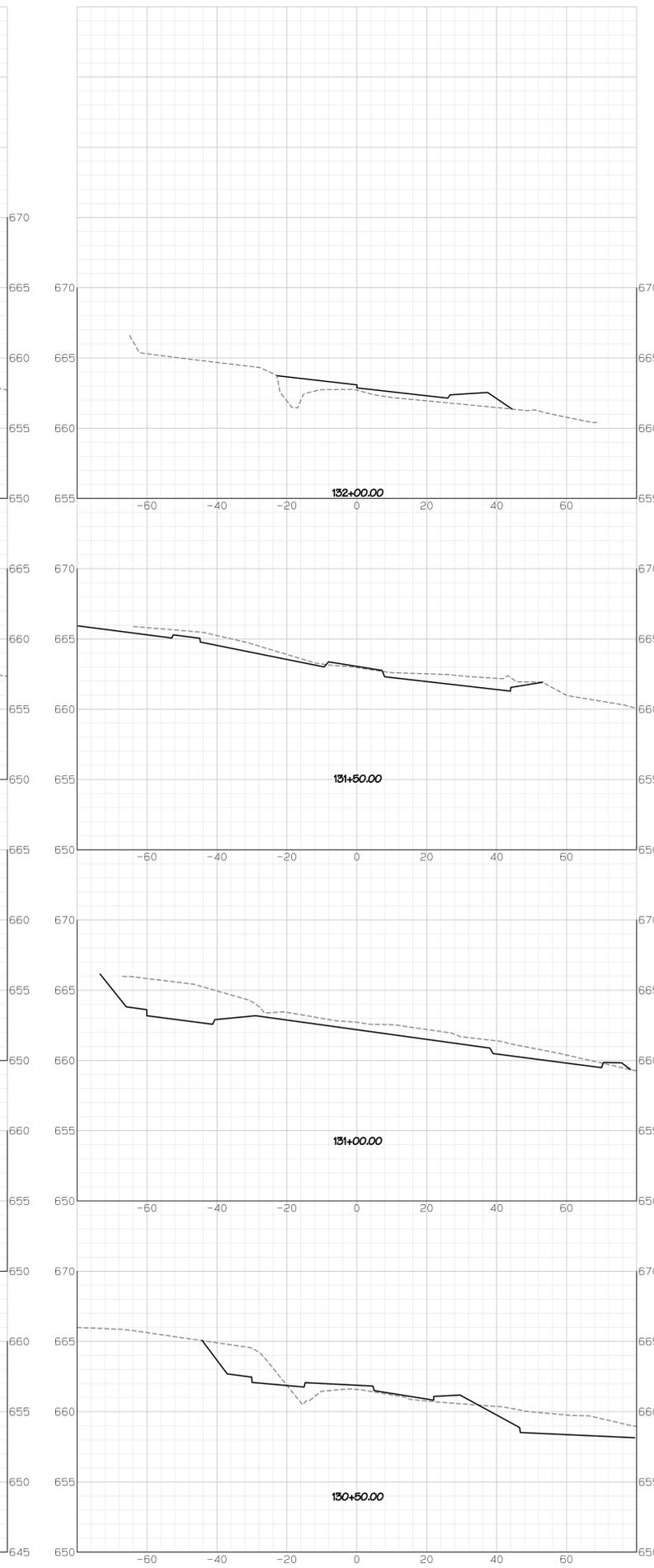
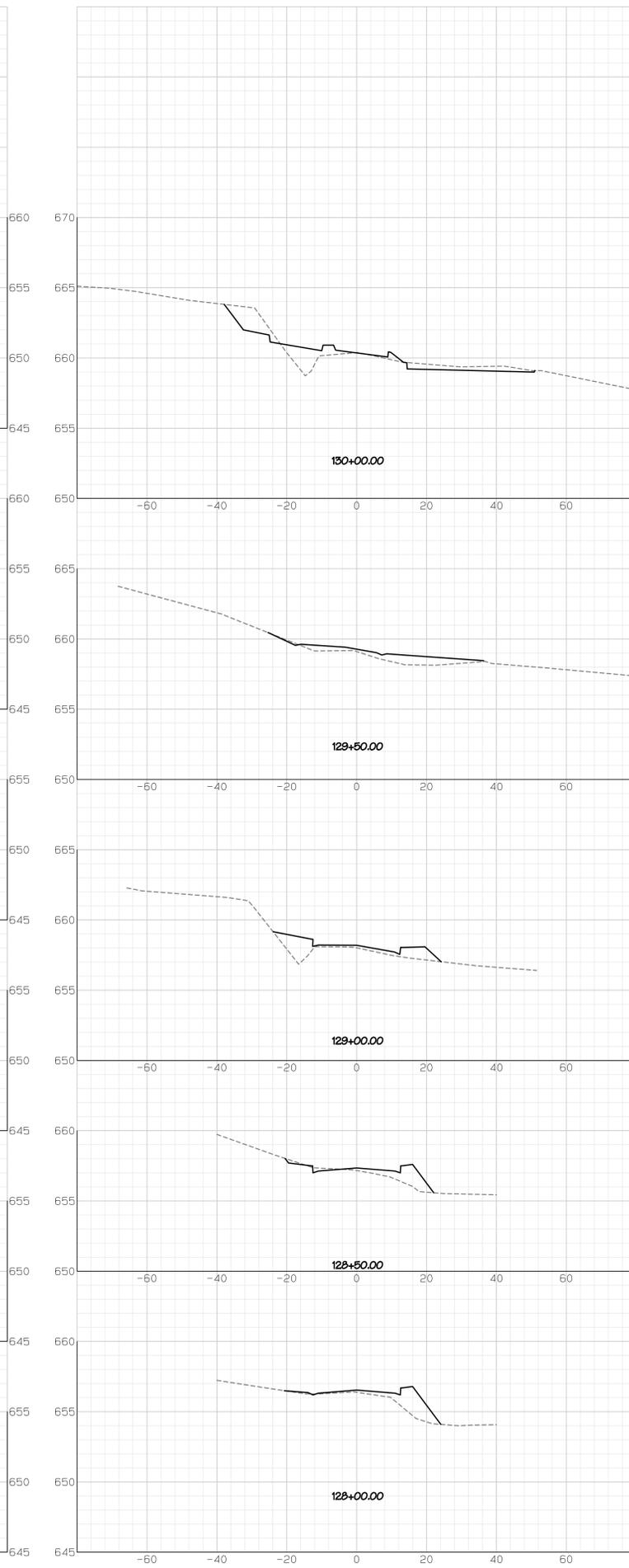
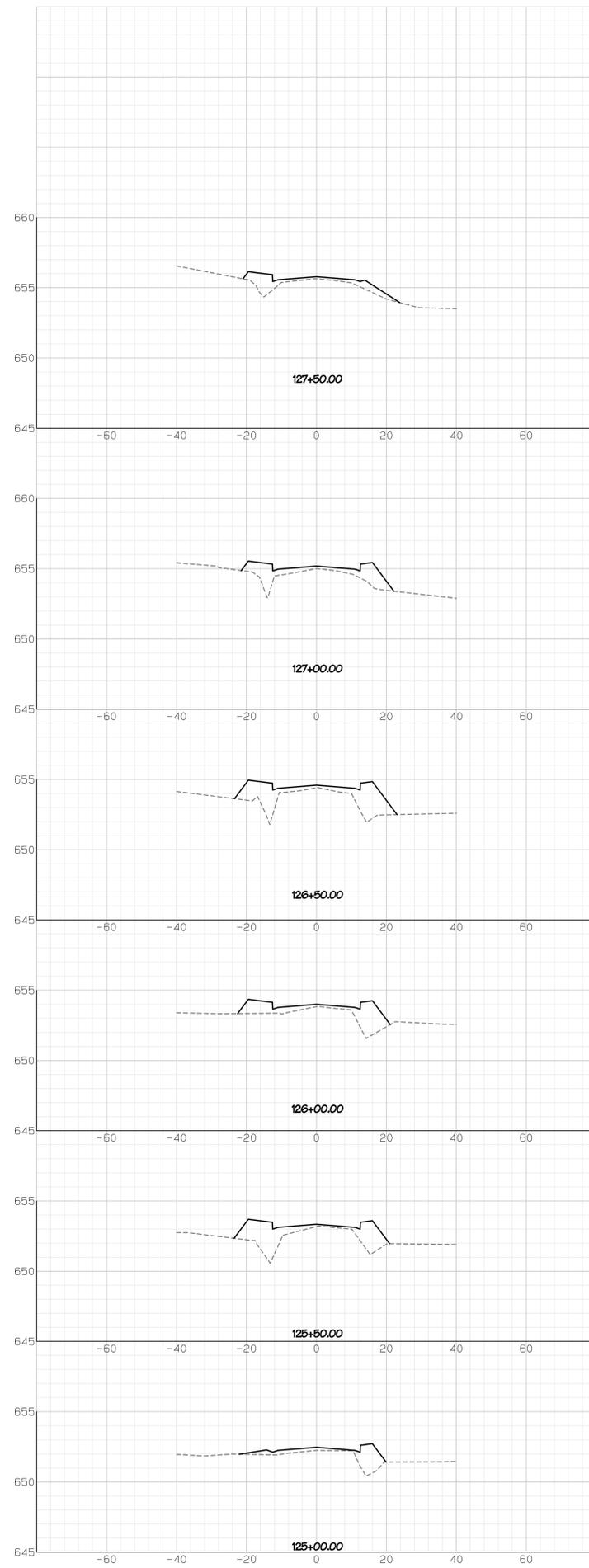
DATE	15 JUN 2016
SCALE	1"=20'H 1"=5'V
DRAWN	MS
CHECKED	MS
PROJECT NO.	2045



Know what's below.
Call before you dig.

24 HOUR CONTACT:
MR. KEVIN McENTIRE
PUBLIC WORKS DIRECTOR
(770) 548-0072

CITY OF CALHOUN
LAND OF THE CHEVINNE
STREET IMPROVEMENTS
PETERS STREET
PHASE I
CITY OF CALHOUN, GA
CROSS SECTIONS
STA 117+00 TO
STA 124+50
C-24



- LEGEND**
- Stream / Water
 - x-x- Fence Line
 - /- Wood Fence
 - |-| Guardrail
 - Sign
 - Benchmark
 - Utility Pole
 - ▽ Valve
 - ⊕ Fire Hydrant
 - ◁ Single Wing C.B.
 - ▷ Double Wing C.B.
 - Drop (Grate) Inlet
 - Area Inlet
 - ⊞ Combination Inlet
 - ⌒ Headwall
 - ⌒ Flared End Sec'n
 - Storm Drain
 - ⊙ Manhole / J.B.
 - Sanitary Sewer
 - ⌒ Marsh / Wetland

REVISIONS:
15 JUN 2016: ISSUED FOR BID

CIVIL SOUTH
INCORPORATED
Civil & Structural Engineers
415 Shorter Avenue
Rome, Georgia 30165
(770) 548-7929

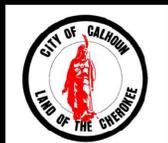


DATE	15 JUN 2016
SCALE	1"=20'H 1"=5'V
DRAWN	MS
CHECKED	MS
PROJECT NO.	2045



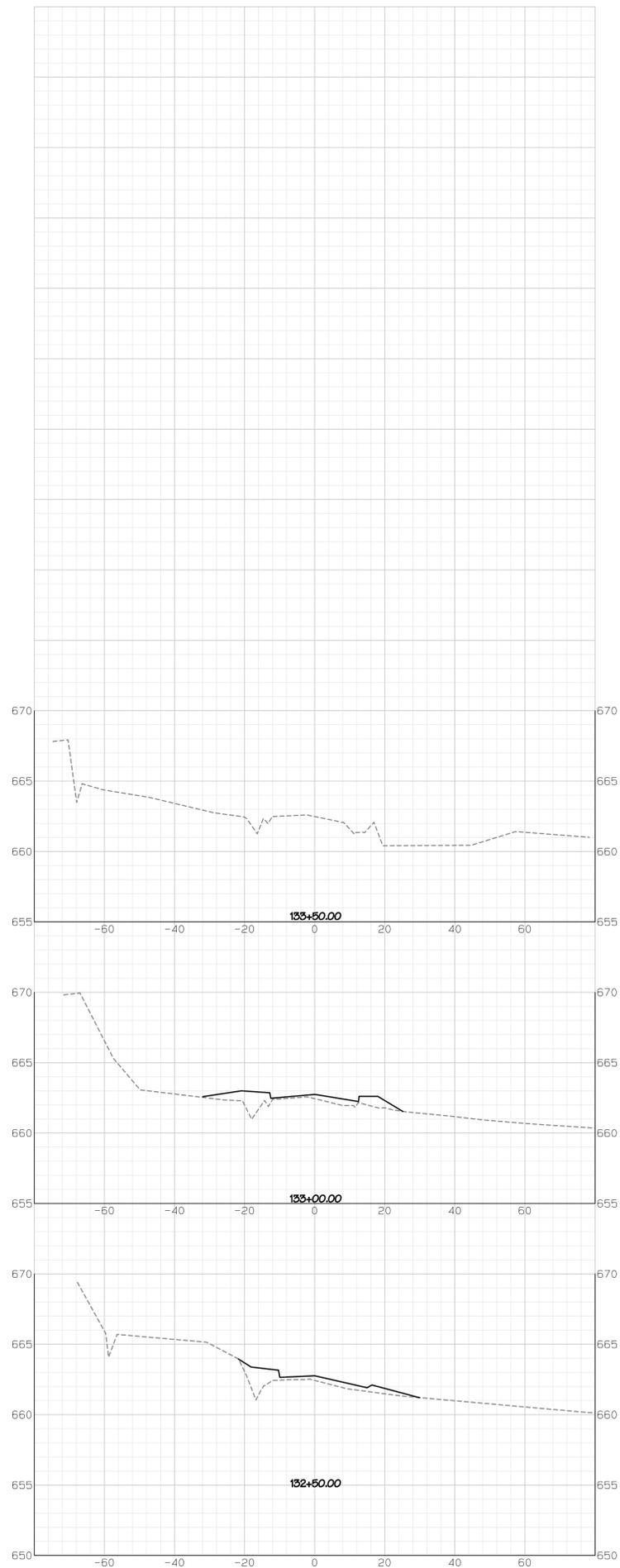
Know what's below.
Call before you dig.

24 HOUR CONTACT:
MR. KEVIN McENTIRE
PUBLIC WORKS DIRECTOR
(770) 548-0072



STREET IMPROVEMENTS
PETERS STREET
PHASE I
CITY OF CALHOUN, GA

CROSS SECTIONS
STA 125+00 TO
STA 132+00



LEGEND

- Stream / Water
- x- Fence Line
- /- Wood Fence
- |- Guardrail
- Sign
- Benchmark
- Utility Pole
- ▽ Valve
- ⊕ Fire Hydrant
- ◁ Single Wing C.B.
- ▷ Double Wing C.B.
- Drop (Grate) Inlet
- ▣ Area Inlet
- ▤ Combination Inlet
- ⤴ Headwall
- ⤵ Flared End Sec'n
- Storm Drain
- ⊙ Manhole / J.B.
- Sanitary Sewer
- Marsh / Wetland

REVISIONS:

15 JUN 2016	ISSUED FOR BID
-------------	----------------

CIVIL SOUTH
INCORPORATED
 Civil & Structural Engineers
 415 Shorter Avenue
 Rome, Georgia 30165
 (770) 548-7929

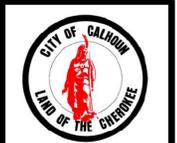


DATE	15 JUN 2016
SCALE	1"=20'H 1"=5'V
DRAWN	MS
CHECKED	MS
PROJECT NO.	2045



Know what's below.
 Call before you dig.

24 HOUR CONTACT:
 MR. KEVIN McENTIRE
 PUBLIC WORKS DIRECTOR
 (770) 548-0072



STREET IMPROVEMENTS
 PETERS STREET
 PHASE I
 CITY OF CALHOUN, GA

CROSS SECTIONS
 STA 132+50 TO
 STA 133+50