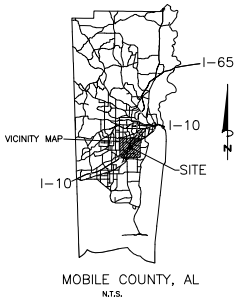
BOARD OF WATER AND SEWER COMMISSIONERS
OF
THE CITY OF MOBILE

HALLS MILL CREEK SEWER ABANDONMENT
PROJECT NO. 19008
CITY OF MOBILE PERMIT NO. ROW-042603-2019



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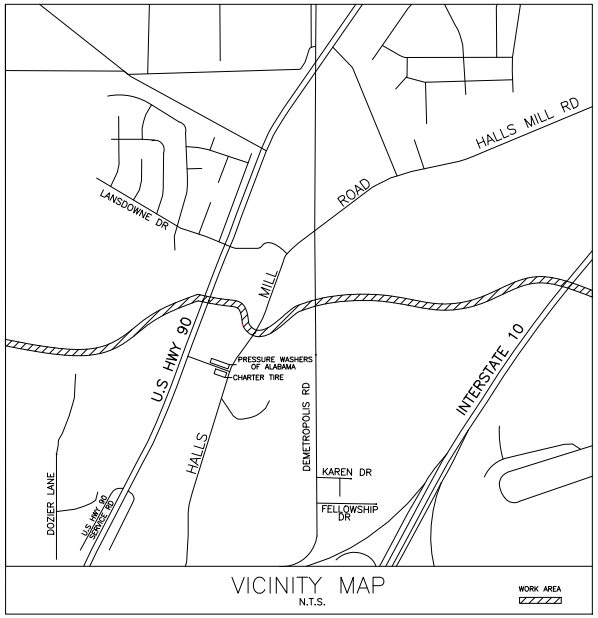

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Walter A. Bell	Secretary-Treasure
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811 Know what's below. Call before you dig.

Dig Safely. Alabama 1 Call

UNDERGROUND UTILITY NOTE

UNDERGROUND UTILITY LOCATIONS SHOWN ARE APPROXIMATE AND ARE BASED ON INFORMATION PROVIDED. THE UTILITIES SHOWN MAY NOT BE A COMPLETE REPRESENTATION OF ALL UTILITY LINES IN THE PROJECT AREA. CONTRACTOR IS REQUIRED TO CONTACT ALABAMA ONE CALL PRIOR TO DIGGING (1-800-292-8525) (WWW.ALTOALL.COM). OTHER UTILITIES (INCLUDING PRIVATE UTILITIES OUTSIDE A PUBLIC RIGHT-OF-WAY) THAT DO NOT PARTICIPATE IN THE ALABAMA ONE CALL LINE LOCATION SERVICE NEED TO BE CONTACTED INDIVIDUALLY AND/OR PHYSICALLY LOCATED BY THE CONTRACTOR.

UTILITY OWNERS

GAS	WATER	POWER
spire MR. Jacob Huffstutler 2828 Dauphin St. Mobile, AL 36606 (251)450-4624 (251)450-4758 (fax) jacob.huffstutler@spireenergy.com	Mobile Area Water & Sewer Aten Tyree 207 North Catherine St. Mobile, AL 36604 Business: (251)694-3155 Fax: (251)694-9412 atyree@mawss.com	Alabama Power Company Elena Cook 150 St. Joseph St. P.O. Box 2247 Mobile, AL 36602 Business: (251)694-2450 Fax: (251)694-2449 lecook@southernco.com
NATURAL GAS	**CABLE**	**TELEPHONE**
Gulf South Pipeline Augie Locke 3350 Suncrest Rd. Eight Mile, AL 36613 Business: (251)452-2862 ext.120 Fax: (251)452-2966 augie.locke@gulfsouthpl.com	Comcast Cablevision Donnie Little 3248 Springhill Ave. Mobile, AL 36607 Business: (251)665-6606 Cell: (251)295-5334 donnie_little@cable.comcast.com	AT&T Eddie Montgomery 2155 Old Shell Rd. Mobile, AL 36601 Business: (251)470-5660 Cell: (251)709-3662 Fax: (251)471-8267 em5353@ATT.com

FOR REFERENCE ONLY
NOT FOR BIDDING
CONTRACTORS MUST PURCHASE
PLANS FROM AND REGISTER
WITH THE ENGINEER TO BE
ELIGIBLE TO BID

THIS PROJECT SHALL BE CONSTRUCTED IN ACCORDANCE WITH ALABAMA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION 2018 EDITION, OR AS OTHERWISE SPECIFIED AND MOBILE AREA WATER AND SEWER SYSTEM STANDARD SPECIFICATIONS, CURRENT EDITION.

SUBMITTED BY: _____ DATE: August 28, 2019

AVALISHA L. FISHER, P.E., ALABAMA REG. NO. 22182

A	2/25/2019	TJJ	GS	ALF	30% SUBMITTAL
B	7/25/2019	GS	ALF	ALF	90% SUBMITTAL
C	8/28/2019	GS	ALF	ALF	ISSUE FOR BID

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MAWSS MOBILE AREA WATER & SEWER SYSTEM

ALABAMA LICENSED 22182 PROFESSIONAL ENGINEER AVALISHA L. FISHER L.S.

Driven Engineering, Inc.
8005 Morris Hill Road, Semmes, AL 36575
(251) 648-4011 Office
(251) 648-4017 Fax
www.drivenengineering.com

TITLE: HALLS MILL CREEK SEWER ABANDONMENT — COVER SHEET

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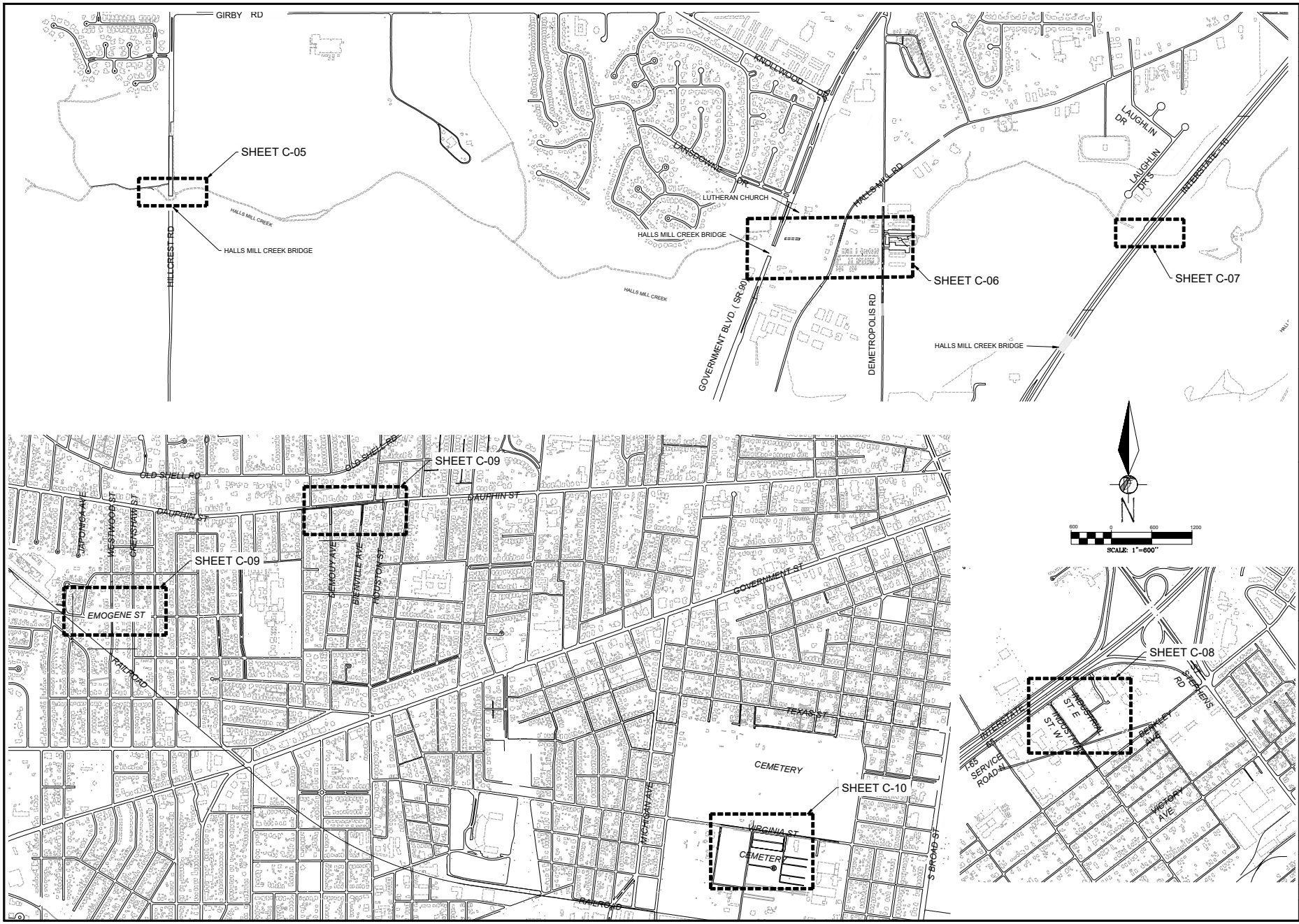
DATE	SCALE
1/17/2019	AS SHOWN

DRAWN BY:	CHECKED BY:	APPROVED BY:
TJJ	GS	ALF

PROJECT NUMBER: 19008

DRAWING NUMBER	TOTAL SHEETS	REVISION
C-01	12	C



A	2/26/2019	TJJ	GS	ALF
	30% SUBMITTAL			
B	7/29/2019	GS	ALF	ALF
	90% SUBMITTAL			
C	8/26/2019	GS	ALF	ALF
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MAWS
MOBILE AREA WATER & SEWER SYSTEM

ALABAMA LICENSED
#21158
PROFESSIONAL
ENGINEER
ALFRED L. FISHER

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www.drivenengineering.com

TITLE:
HALLS MILL CREEK
SEWER ABANDONMENT
INDEX SHEET

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DATE	SCALE
1/17/2019	AS SHOWN

DRAWN BY:	CHECKED BY:	APPROVED BY:
TJJ	GS	ALF

PROJECT NUMBER: 19008

DRAWING NUMBER	TOTAL SHEETS	REVISION
C-02	12	C

GENERAL NOTES:

1. STANDARD SPECIFICATIONS FOR STREETS AND DRAINAGE: REFERENCE IS MADE TO THE ALABAMA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION", 2018 EDITION. ALL PROVISIONS OF SAID STANDARD SPECIFICATIONS AND CITY OF MOBILE SPECIFICATIONS SHALL APPLY TO THIS CONTRACT AND ARE HEREBY MADE A PART OF THIS CONTRACT, EXCEPT WHEN THE PROVISIONS HEREON OR THE PLANS ARE CLEARLY IN CONFLICT WITH THE PROVISIONS OF SAID STANDARD SPECIFICATIONS, THE PROVISIONS HEREON AND THE PLANS SHALL GOVERN.
2. THE CONTRACTOR IS TO FIELD VERIFY ALL DIMENSIONS, AND CONDITIONS PRIOR TO CONSTRUCTION OR FABRICATION.
3. THE CIVIL DRAWINGS SHALL BE USED IN CONJUNCTION WITH THE DRAWINGS OF ALL OTHER DISCIPLINES AND ANY APPLICABLE SPECIFICATIONS. CONTRACTOR IS DIRECTED TO NOTIFY THE ENGINEER OF RECORD IMMEDIATELY IF ANY CONFLICT IS FOUND BETWEEN THE CIVIL PLANS AND THE PLANS OF OTHER DISCIPLINES.
4. WHERE A DETAIL IS SHOWN FOR ONE CONDITION, IT SHALL APPLY FOR ALL LIKE OR SIMILAR CONDITIONS EVEN THOUGH NOT SPECIFICALLY CALLED FOR ON THE DRAWINGS.
5. ALL UNPAVED AREAS THAT HAVE BEEN GRADED, CUT, OR FILLED SHALL BE TREATED WITH A SUITABLE COMMERCIAL FERTILIZER IN ACCORDANCE WITH ALABAMA DEPARTMENT OF TRANSPORTATION 2012 STANDARD SPECIFICATIONS, AND SEEDED WITH A MIXTURE TO SUIT THE PLANTING ZONE (652.03) AND DATE OF PLANTING (860.01) PER ALABAMA DEPARTMENT OF TRANSPORTATION 2012 STANDARD SPECIFICATIONS. A FIRM STAND OF PERMANENT GRASS WILL BE REQUIRED. NO PENSACOLA BAHIA SHALL BE IN THE MIX.
6. UNDERGROUND UTILITY LOCATIONS SHOWN ARE APPROXIMATE AND ARE BASED ON INFORMATION PROVIDED. THE UTILITIES SHOWN MAY NOT BE A COMPLETE REPRESENTATION OF ALL UTILITY LINES IN THE PROJECT AREA. CONTRACTOR IS REQUIRED TO CONTACT ALABAMA ONE CALL PRIOR TO DIGGING (1-800-292-8525) (WWW.ALTOALL.COM). OTHER UTILITIES (INCLUDING PRIVATE UTILITIES INSIDE OR OUTSIDE A PUBLIC RIGHT-OF-WAY) THAT DO NOT PARTICIPATE IN THE ALABAMA ONE CALL LINE LOCATION SERVICE NEED TO BE CONTACTED INDIVIDUALLY AND/OR PHYSICALLY LOCATED BY THE CONTRACTOR.
7. ALL SEDIMENT CONTROL DEVICES SHALL BE CONSTRUCTED AND FULLY FUNCTIONING PRIOR TO ANY OTHER CONSTRUCTION OR GRADING ACTIVITY. THE WORD OF THE ENGINEER AND/OR INSPECTOR SHALL BE FINAL IN ANY MATTER.
8. ALL MATERIALS SHALL BE NEW UNLESS USED OR SALVAGED MATERIALS ARE AUTHORIZED BY THE OWNER.
9. CONTRACTOR IS PROHIBITED FROM DISTURBING SITE AREAS OUTSIDE THE CONSTRUCTION LIMITS SHOWN ON THE PLANS WITHOUT PRIOR APPROVAL FROM THE ENGINEER. STAGING AREAS OUTSIDE THE CONSTRUCTION LIMITS, PILES OF DIRT, AND OTHER BARE AREAS ARE TO BE COVERED AS DIRECTED BY THE ENGINEER. ANY AREAS DISTURBED OUTSIDE THE CONSTRUCTION LIMITS WILL BE REPAIRED AND COVERED WITH A FIRM STAND OF GRASS BEFORE FINAL PAYMENT AND FINAL ACCEPTANCE OF THE PROJECT AT NO ADDITIONAL COST TO THE DEVELOPER. IF GRASS WILL NOT GROW ON THE SUBJECT AREA DUE TO POOR WEATHER CONDITIONS, THE CONTRACTOR AGREES TO PLACE SOD ON THE AREA TO PREVENT EXCESS BARE AREAS FROM CONTRIBUTING SEDIMENT EROSION TO THE AREAS OF THE SITE THAT ARE UNDER CONSTRUCTION.
10. CONTRACTOR IS REQUIRED TO USE "BEST MANAGEMENT PRACTICES" COMPLIANT WITH THE "ALABAMA HANDBOOK FOR EROSION CONTROL AND STORMWATER MANAGEMENT ON CONSTRUCTION SITES AND URBAN AREAS", ALABAMA SOIL AND WATER CONSERVATION COMMITTEE, MONTGOMERY, ALABAMA, VOLUMES 1 & 2, 2014 EDITION, TO PREVENT SEDIMENT LADEN STORM WATER RUNOFF OR ERODED MATERIALS FROM LEAVING THE CONSTRUCTION SITE.
11. ALL MATERIALS AND WORKMANSHIP FOR PAVEMENT REPLACEMENT WITHIN A STATE OR CITY RIGHT-OF-WAY SHALL CONFORM TO THE ALABAMA DEPARTMENT OF TRANSPORTATION SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, 2012 EDITION.
12. ALL CONCRETE USED ON THE PROJECT SHALL BE 3,000 PSI MINIMUM COMPRESSIVE STRENGTH REQUIRED IN 28 DAYS, UNLESS SPECIFICATIONS REQUIRE CONCRETE OF GREATER STRENGTH.
13. HIGH INTENSITY LIGHTING FACILITIES SHALL BE SO ARRANGED THAT THE SOURCE OF ANY LIGHT IS CONCEALED FROM PUBLIC VIEW AND FROM ADJACENT RESIDENTIAL PROPERTY AND DOES NOT INTERFERE WITH TRAFFIC.

GENERAL UTILITY NOTES:

1. STANDARD SPECIFICATIONS FOR WATER AND SEWER WORKS: REFERENCE IS MADE TO THE BOARD OF WATER AND SEWER COMMISSIONERS FOR THE CITY OF MOBILE, ALABAMA "STANDARD SPECIFICATIONS FOR WATER MAINS, SANITARY SEWERS AND SEWAGE PUMPING STATIONS APRIL 1993 UPDATED – May 2012. ALL PROVISIONS OF SAID STANDARD SPECIFICATIONS AND THE CITY OF MOBILE SUPPLEMENTAL SPECIFICATIONS SHALL APPLY TO THIS CONTRACT AND ARE HEREBY MADE A PART OF THIS CONTRACT, EXCEPT WHEN THE PROVISIONS HEREON OR THE PLANS ARE CLEARLY IN CONFLICT WITH THE PROVISIONS OF SAID STANDARD SPECIFICATIONS, THE PROVISIONS HEREON AND THE PLANS SHALL GOVERN.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING PERMITS, INSPECTIONS, AND APPROVAL OF THE COMPLETED UTILITY WORK FROM THE BOARD AND EACH UTILITY COMPANY BEFORE BACK FILLING AND/OR PAVING OVER ANY OF THE UTILITY WORK.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PAYMENT OF ALL CONNECTION FEES, INCLUDING TEMPORARY AND PERMANENT CONNECTIONS, DEPOSITS, AND ANY IMPACT FEES ISSUES BY UTILITY COMPANIES FOR UTILITY SERVICE.
4. THE CONTRACTOR SHALL VERIFY UTILITY SERVICE ENTRANCE POINTS AND METER LOCATIONS WITH THE ENGINEER PRIOR TO THE INSTALLATION OF ANY SERVICE LINES.
5. ANY VARIATION IN GRADE WILL BE DEEMED SUFFICIENT REASON TO REJECT AND REBUILD AT CONTRACTOR'S EXPENSE.
6. EXCESS EXCAVATION WILL BE REMOVED AND PLACED AS DIRECTED BY THE ENGINEER OR INSPECTOR.
7. PRICE BID ON MANHOLE SHALL BE FOR ONE MANHOLE COMPLETE IN PLACE, REGARDLESS OF DEPTH.
8. PRICE BID FOR GATE VALVES SHALL BE FOR ONE GATE VALVE COMPLETE IN PLACE (INCLUDING VALVE STEM EXTENSIONS AND VALVE BOX). THE CONTRACTOR SHALL OPEN ALL VALVES BEFORE DEPARTING PROJECT (SEE VALVE COVER DETAIL).
9. 36" MINIMUM COVER WILL BE REQUIRED ON ALL WATER MAINS THAT WILL BE MAINTAINED BY BOARD OF WATER AND SEWER COMMISSIONERS FOR THE CITY OF MOBILE, ALABAMA IN ACCORDANCE WITH SAID UTILITY OWNER'S STANDARD SPECIFICATIONS, CURRENT EDITION.
10. ALL FITTINGS AND MATERIALS NECESSARY FOR THE PROPER INSTALLATION OF WATER LINES SHALL MEET THE REQUIREMENTS SET FORTH BY BOARD OF WATER AND SEWER COMMISSIONERS FOR THE CITY OF MOBILE, ALABAMA STANDARD SPECIFICATIONS, CURRENT EDITION.
11. BEFORE BACKFILLING ANY TRENCH, THE CONTRACTOR SHALL NOTIFY THE ENGINEER. THE CONTRACTOR'S FOREMAN AND ENGINEER OR ENGINEER'S INSPECTOR SHALL THEN EXAMINE THE LINES AND ALL JOINTS, AND THE CONTRACTOR SHALL CORRECT ANY DEFICIENCIES THAT EXIST.
12. ALL LABOR AND MATERIALS SHALL CONFORM TO BOARD OF WATER AND SEWER COMMISSIONERS FOR THE CITY OF MOBILE, ALABAMA STANDARD SPECIFICATIONS, LATEST EDITION..
13. CONNECTION TO EXISTING WATER AND SEWER LINES IS TO BE COORDINATED WITH THE BOARD OF WATER AND SEWER COMMISSIONERS FOR THE CITY OF MOBILE, ALABAMA OPERATING PERSONNEL.
14. CONTRACTOR SHALL CHLORINATE WATER LINES IN ACCORDANCE WITH AWWA C-600.
15. PROVIDE THRUST BLOCKS AT ALL PIPING DIRECTION CHANGES. SIZE PER NFPA24.
16. CONTRACTOR IS REQUIRED TO PROTECT THE PUBLIC ON ROADWAYS APPROACHING THE PROJECT AND WITHIN THE PROJECT LIMITS BY PROVIDING AND IMPLEMENTING A TRAFFIC CONTROL PLAN IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, CURRENT EDITION. CONTRACTOR MAY BE REQUIRED TO ASSIST MOTORIST WITH FLAGGING PER MUTCD REQUIREMENTS IF WORKING CLOSE TO BUT NOT IN THE ROADWAY ADJACENT TO THE SITE.

CITY OF MOBILE STANDARD RIGHT OF WAY NOTES:

1. The City of Mobile City Engineering inspector is to be notified twenty-four hours prior to any activity within the right of way. The prior notice applies to all activity within the right of way including but not limited to trenching, boring, concrete placement (sidewalk, driveway, and any other concrete placement). An inspection by the City of Mobile City Engineering inspector is required prior to any concrete placement.
2. The City Engineering inspector for this project is Toni Murphy (251-509-7419, nerowinspection@cityofmobile.org)
3. All work within the City of Mobile right of way must comply with the "Mobile Rights of Way Construction and Administration Ordinance". A copy of the ordinance may be found at http://cityofmobile.org, Online Services, Forms and Applications, Engineering, Rights of Way Construction and Administration Ordinance.
4. All work shall be in compliance with the Storm Water Drainage Ordinance and Flood Plain Management Plan of the City of Mobile, Alabama, including but not limited to:
5. Do not alter the natural drainage flow pattern in the area of work.
6. Do not divert storm water onto adjacent property or increase the amount of natural drainage flow onto an adjacent property owner or prevent the natural flow of water in the area of work.
7. Do not fill wetlands without a permit from the US Army Corps of Engineers.
8. Any work in the flood plain is in compliance with all the requirements of Division 2, Flood Plain Requirements of City of Mobile, Alabama Storm Water Drainage Ordinance.
9. Any damage to any City of Mobile facility or drainage structure, ditch, etc. shall be the responsibility of the permittee to repair to the City of Mobile standards at no cost to the City of Mobile. It is the responsibility of the permittee to notify the City of Mobile immediately if any damage occurs. Jesse Yawn should be notified at 251-208-7145 in the City of Mobile Right of Way Department.
10. Any excess soil from a hand hole or ANY excavation for pits, etc., shall be removed from the Right of Way (not left in the Right of Way).
11. All striping and marking in the ROW is to be Class 2, Type A (Reflective Thermoplastic) striping.
12. All disturbed areas of the right of way to be solid sodded and existing bare areas may require sod. Existing vegetation may require removal and placement of sod depending on its condition. The sod is required to be installed flush with the top of the sidewalk.
13. All storm drain pipe installed in the City of Mobile Right of Way, City of Mobile Easement, or carrying public stormwater are to have the joints wrapped with filter fabric, are required not to have any lifting holes (filling the lifting holes is not allowed), shall be a minimum of 15 inch in diameter, and shall be reinforced concrete pipe (RCP). The contractor needs to notify the pipe manufacturer ahead of time that the project is within the City of Mobile right of way.
14. The City of Mobile requires a minimum of thirty-six inch separation between any pipe/structure and a City of Mobile storm drainpipe. Provide a cross-section relative to all proposed pipe installations that are adjacent to a storm drainpipe(s) within the City of Mobile right of way. The cross-section will not be required if the pipe is installed by a utility company and not the project's contractor.
15. All sidewalk construction must comply with City of Mobile City Engineering Standard Drawing 12, "Concrete Sidewalk Details". Refer to the standard drawing details included in the plan.
16. An ADA compliant truncated dome panel will be required on the sidewalk at each side of the driveway. The truncated dome panel must be a polymer composite truncated dome panel that meets the requirements stated in the City Engineering Typical Handicap Curb Ramp Standard Drawing Seven and is a subsidiary obligation of the driveway.
17. The final resurfacing limits shall be at the discretion of the City Engineer, to be determined at a field inspection/site visit upon completion of the installation of all permitted infrastructure/facilities, prior to the contractor beginning paving.
18. Any driveway affected by the work will be replaced in its entirety.
19. Provide the length of the all proposed storm drainpipe, water line, and/or sanitary sewer line within the City of Mobile right of way. This is required for the calculation of permit fees. Do not included pipe that is to be installed by the utility company.
20. Curb replacement shall be a minimum of six lineal feet and from existing construction joint to existing construction joint.
21. No trenching under the curbing is allowed.

SYMBOLOGY

$^{P}_{TP}$	TELEPHONE PEDESTAL	$^{\circ}_{TP}$	
$^{P}_{CP}$	CABLE TV PEDESTAL	$^{\circ}_{CP}$	
—	STREET SIGN (TYP.)	—	
E	ELECTRICAL MANHOLE	E	
S	SAN. SEWER MANHOLE	S	
T	TELEPHONE MANHOLE	T	
M	MANHOLE	M	
$^{\bowtie}_{WV}$	WATER VALVE	$^{\bowtie}_{WV}$	
$^{\boxtimes}_{WM}$	WATER METER	$^{\boxtimes}_{WM}$	
	GAS VALVE		
$^{\bullet}_{GM}$	GAS METER	$^{\bullet}_{GM}$	
	GRATE INLET		
	BOX INLET W/ MANHOLE		
$^{\Omega}_{FH}$	FIRE HYDRANT	$^{\Omega}_{FH}$	
E	ELECTRICAL SERVICE BOX	E	
	DOUBLE INLET		
	SINGLE INLET LEFT		
	SINGLE INLET RIGHT		

LINE TYPES

- MATCH LINE
- RIGHT-OF-WAY TBA
- EASEMENT TBA
- PROPOSED PROPERTY LINE
- FENCE RESET LOCATION
- PROPOSED EDGE OF PAVEMENT
- ADJOINER'S PROPERTY LINES
- EXISTING EDGE OF PAVEMENT
- EXIST OVERHEAD UTILITY LINE(S)
- EXIST UNDERGROUND TELEPHONE LINE
- EXIST. UNDERGROUND GAS LINE OR PIPELINE
- EXISTING UNDERGROUND POWER LINE
- EXIST SANITARY SEWER LINE
- EXISTING FENCE
- EXISTING WATER LINE
- LIMITS OF CONSTRUCTION
- REQ'D SILT FENCE
- EXISTING GUARD RAIL LEFT
- EXISTING GUARD RAIL RIGHT
- PROPOSED GUARD RAIL

SURVEY MARKERS

$\triangle_{CT}$	CRIMPED TOP IRON PIPE FOUND
$\triangle_{IP}$	IRON PIPE FOUND (SIZE)
$\triangle_{OT}$	OPEN TOP IRON PIPE FOUND
$\triangle_{RBR.4}$	NO. 4 REBAR FOUND
$\triangle_{RBR.5}$	NO. 5 REBAR FOUND
$\triangle_{CR}$	NO. 5 CAPPED REBAR FOUND (ROWE)
$\triangle_{CR2}$	NO. 4 CAPPED REBAR FOUND (19263)
$\square_{CM}$	CONCRETE MONUMENT FOUND
$\square_{CMS}$	CONCRETE MONUMENT SET
$\bigcirc_{CRS}$	NO. 5 CAPPED REBAR SET (D.E. CA 0765 LS)
$\blacklozenge_{TBM}$	TEMPORARY BENCHMARK
	SET CONTROL POINT "HUB & TACK" (POINT NO.) OR "NO. 5 CRS (POINT NO.)
$\blacklozenge_{BM}$	BENCHMARK
$\bigcirc_{CPT}$	CONTROL POINT

HATCHES

- CONCRETE
- ASPHALT PATCH PER CITY OF MOBILE DETAIL NO. 11 SEE SHEET C-05
- EXISTING GROUND OR PROPOSED TOPSOIL
- REQUIRED MILLING
- DRIVEWAY REPLACEMENT

TREES/SHRUBS

- EXISTING SHRUB
- EXIST. UNIDENTIFIED TREE W/ SIZE
- EXIST. OAK W/ SIZE & TYPE
- EXIST. TREE >36" ø
- EXIST. MAGNOLIA W/ SIZE & TYPE
- EXIST. PINE W/ SIZE & TYPE

A	2/25/2019	TJJ | GS | ALF 30% SUBMITTAL
B	7/25/2019	GS | ALF | ALF 90% SUBMITTAL
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MAWS MOBILE AREA WATER & SEWER SYSTEM

ALABAMA LICENSED 22182 PROFESSIONAL ENGINEER JAMES A. LAIER L.S.

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(251) 648-4011 Office
(251) 648-4077 Fax
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HALLS MILL CREEK SEWER ABANDONMENT

LEGEND & NOTES SHEET

TITLE

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DATE	SCALE
1/17/2019	AS SHOWN

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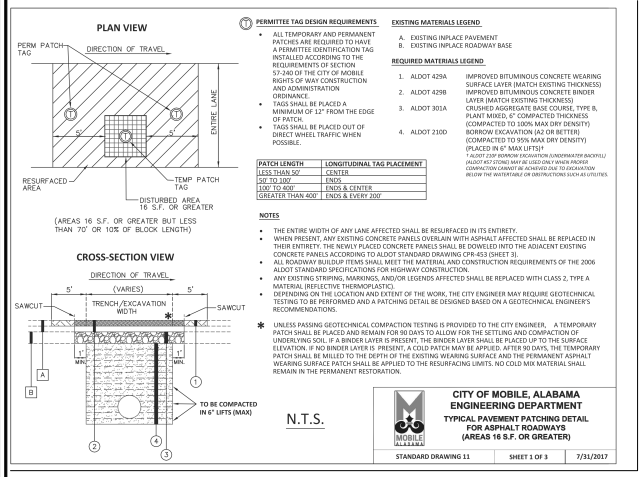
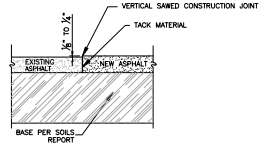
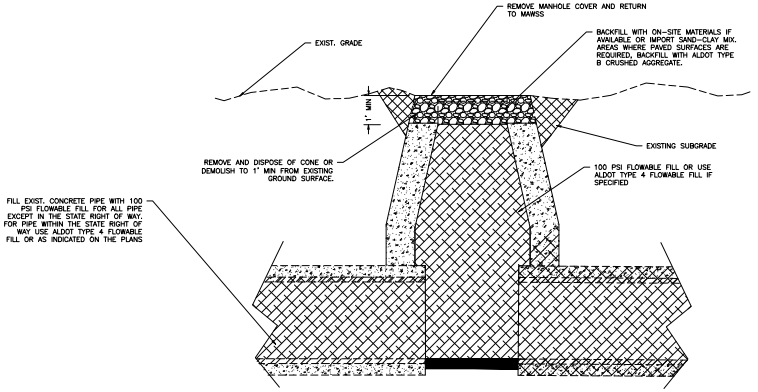
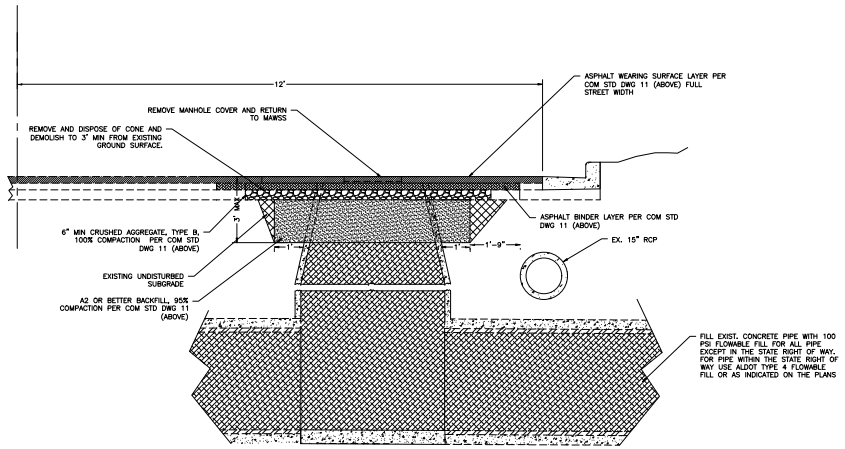




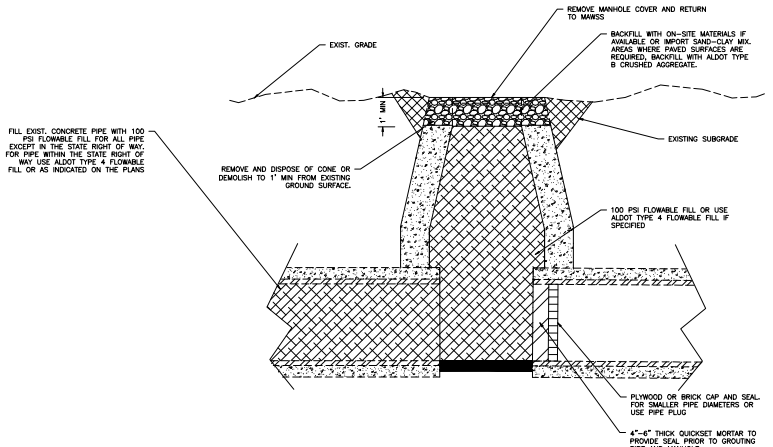
ASPHALT CONSTRUCTION JOINT



MANHOLE AND CONCRETE PIPE ABANDON DETAIL–FULL SEGMENTS
N.T.S.



MANHOLE AND CONCRETE PIPE ABANDON DETAIL–DEMOTROPOLIS RD
NTS



MANHOLE AND CONCRETE PIPE ABANDONMENT DETAIL–END SEGMENTS
N.T.S.

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MOBILE AREA WATER & SEWER SYSTEM

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TITLE:
HALLS MILL CREEK
SEWER ABANDONMENT
DETAILS SHEET

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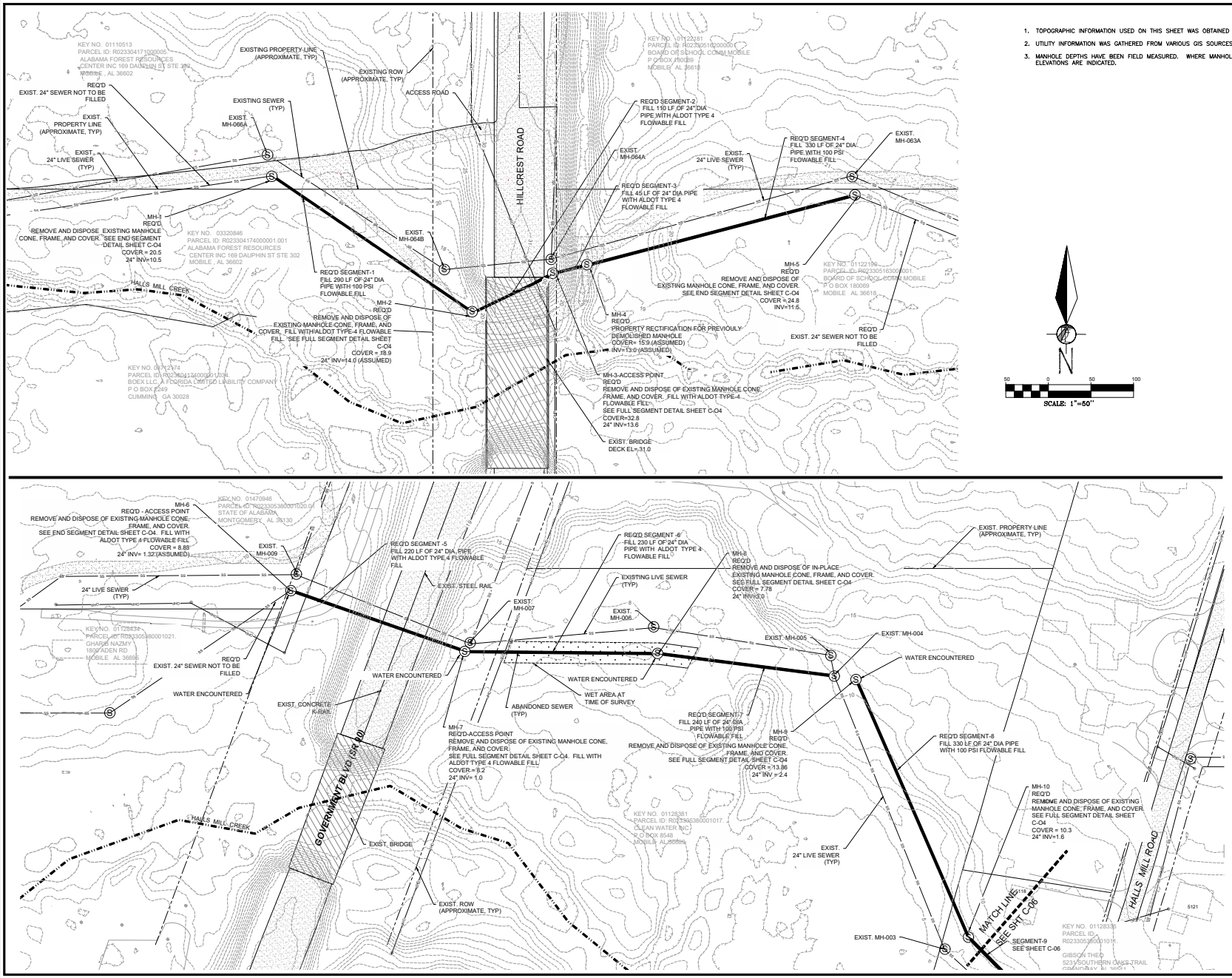
DATE	SCALE
1/17/2019	AS SHOWN
DRAWN BY: TJJ	CHECKED BY: GS	APPROVED BY: ALF
PROJECT NUMBER: 19008		
DRAWING NUMBER: C-04	TOTAL SHEETS: 12	REVISION: C



1. TOPOGRAPHIC INFORMATION USED ON THIS SHEET WAS OBTAINED FROM 2014 LIDAR FROM NOAA.
2. UTILITY INFORMATION WAS GATHERED FROM VARIOUS GIS SOURCES.
3. MANHOLE DEPTHS HAVE BEEN FIELD MEASURED. WHERE MANHOLES COULD NOT BE ACCESSED, ASSUMED ELEVATIONS ARE INDICATED.

A	2/28/2019	TJJ	GS	ALF
	30% SUBMITTAL			
B	7/20/2019	GS	ALF	ALF
	90% SUBMITTAL			
C	8/28/2019	GS	ALF	ALF
	ISSUE FOR BID			

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MAWS
MOBILE AREA WATER & SEWER SYSTEM

ALABAMA LICENSED F2158 PROFESSIONAL ENGINEER ALFRED L. FISHER, JR. L.S.

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HALLS MILL CREEK SEWER ABANDONMENT

PLAN SHEET 1 OF 6

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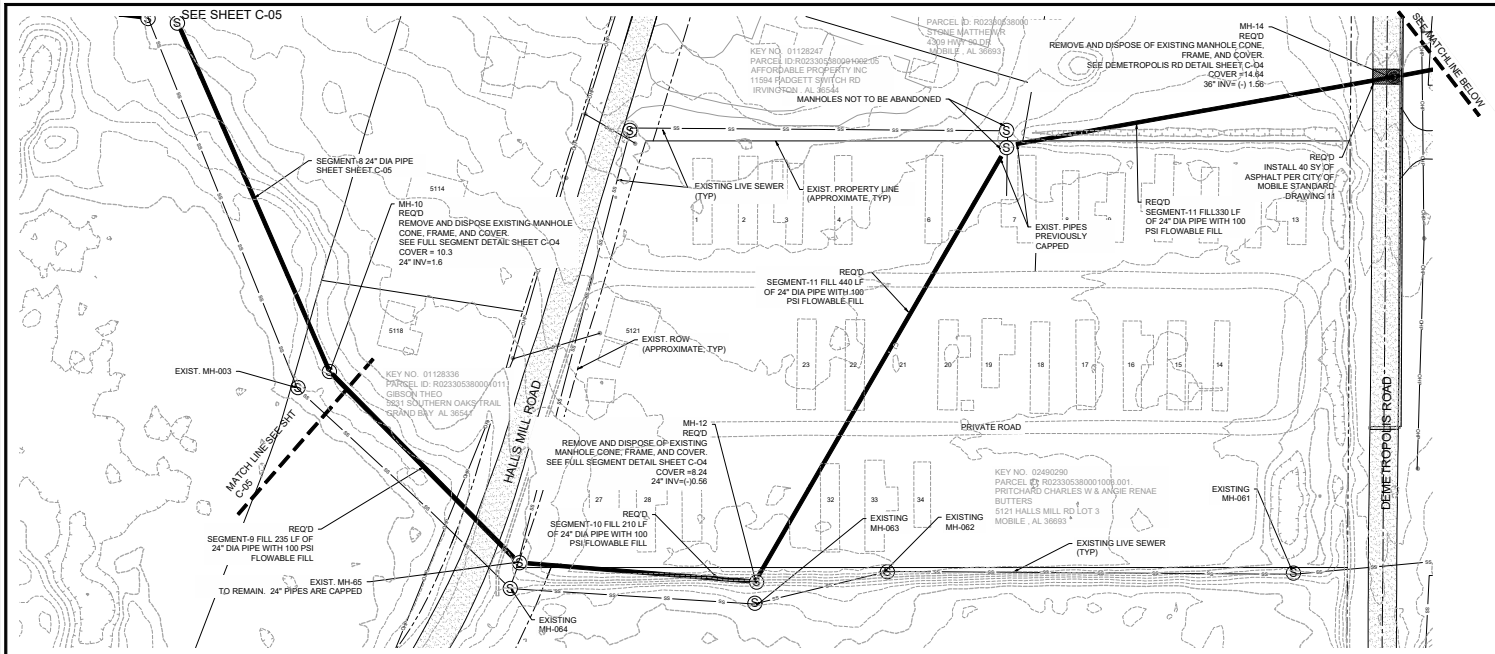
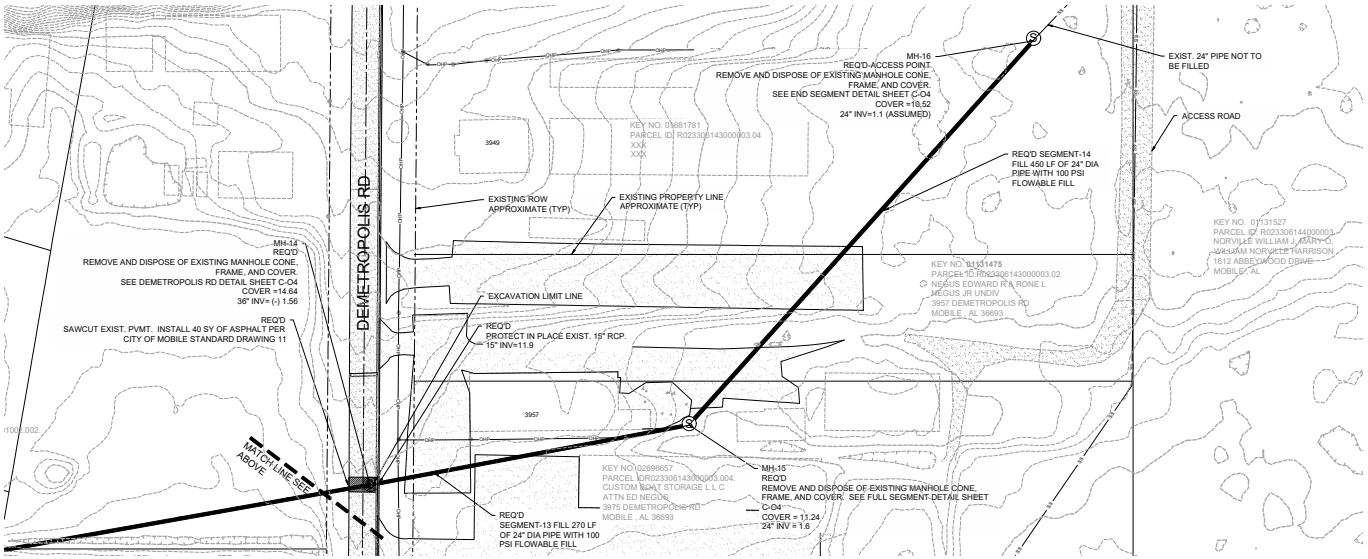
DATE	SCALE
1/17/2019	AS SHOWN

DRAWN BY:	CHECKED BY:	APPROVED BY:
TJJ	GS	ALF

PROJECT NUMBER: 19008

DRAWING NUMBER	TOTAL SHEETS	REVISION
C-05	12	C





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	90% SUBMITTAL		
C	8/26/2019	GS	ALF	ALF
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TITLE:
HALLS MILL CREEK
SEWER ABANDONMENT
PLAN SHEET 2 OF 6

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DATE	SCALE
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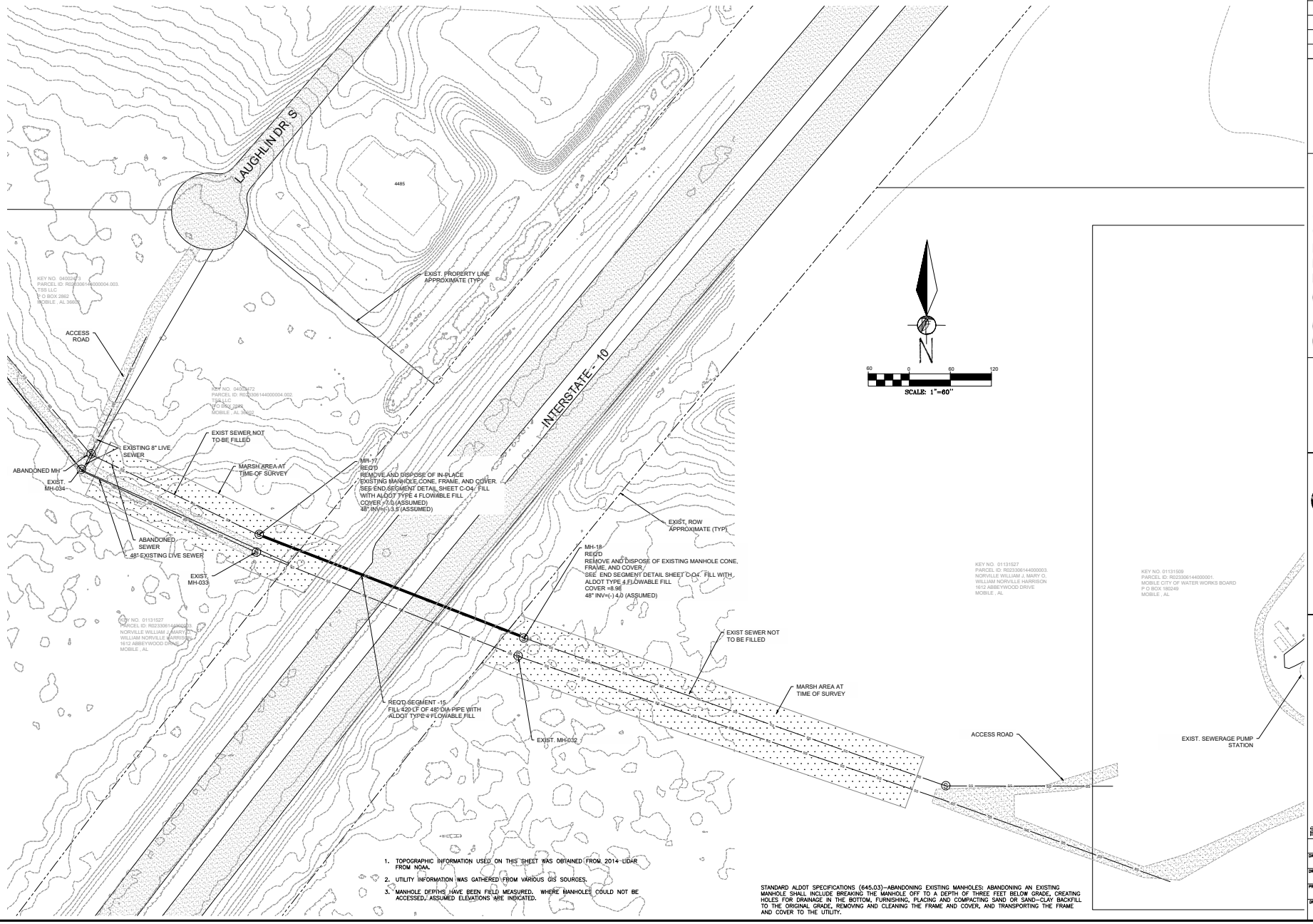
DRAWN BY:	CHECKED BY:	APPROVED BY:
TJJ	GS	ALF

PROJECT NUMBER: 19008

DRAWING NUMBER	TOTAL SHEETS	REVISION
C-06	12	C



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STANDARD ALDOT SPECIFICATIONS (645.03)–ABANDONING EXISTING MANHOLES: ABANDONING AN EXISTING MANHOLE SHALL INCLUDE BREAKING THE MANHOLE OFF TO A DEPTH OF THREE FEET BELOW GRADE, CREATING HOLES FOR DRAINAGE IN THE BOTTOM, FURNISHING, PLACING AND COMPACTING SAND OR SAND–CLAY BACKFILL TO THE ORIGINAL GRADE, REMOVING AND CLEANING THE FRAME AND COVER, AND TRANSPORTING THE FRAME AND COVER TO THE UTILITY.

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	90% SUBMITTAL			
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MOBILE AREA WATER & SEWER SYSTEM

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TITLE:
HALLS MILL CREEK
SEWER ABANDONMENT
PLAN SHEET 3 OF 6

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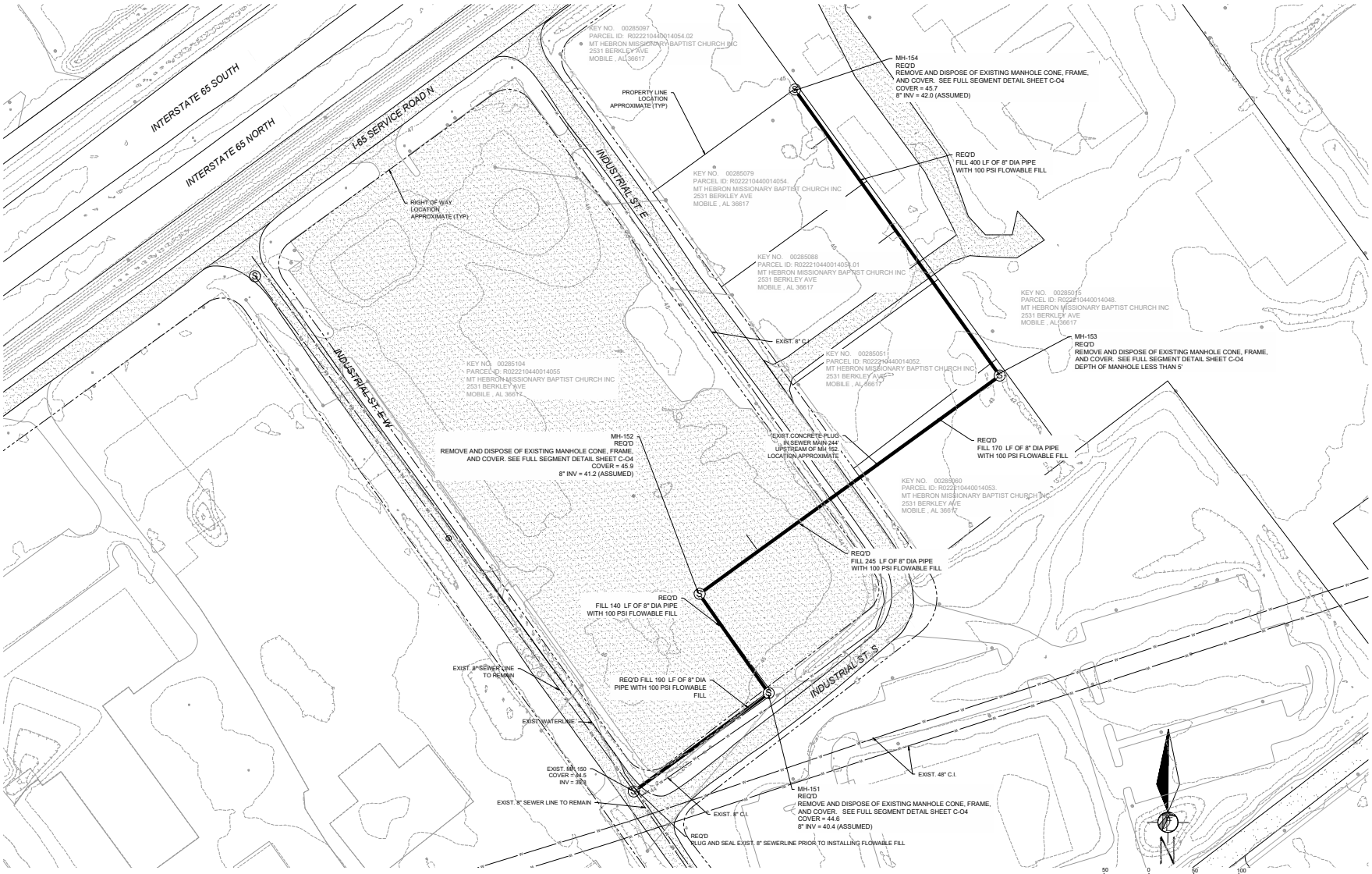
DATE	SCALE
1/17/2019	AS SHOWN
DRAWN BY: TJJ	CHECKED BY: GS
APPROVED BY: ALF	
PROJECT NUMBER: 19008	
DRAWING NUMBER: C-07	TOTAL SHEETS: 12
REVISION: C	



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A	2/28/2019 ISSUE SUBMITTAL	TJJ	GS	ALF
B	7/30/2019 ISSUE SUBMITTAL	GS	ALF	ALF
C	8/28/2019 ISSUE FOR BID	GS	ALF	ALF

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MAWS MOBILE AREA WATER & SEWER SYSTEM

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TITLE:
HALLS MILL CREEK
SEWER ABANDONMENT
PLAN SHEET 4 OF 6

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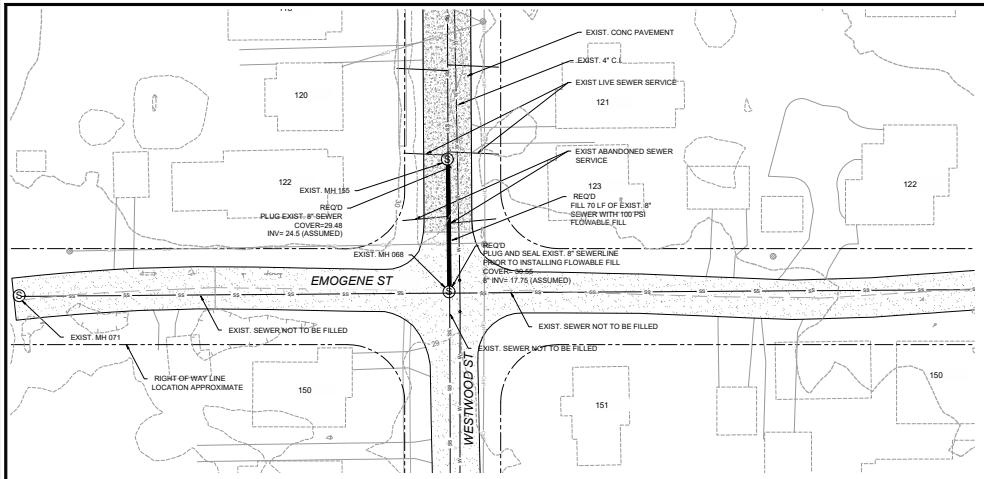
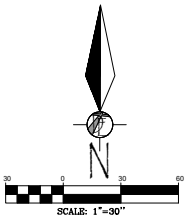
DATE	SCALE
1/17/2019	AS SHOWN

DRAWN BY:	CHECKED BY:	APPROVED BY:
TJJ	GS	ALF

PROJECT NUMBER: 19008

DRAWING NUMBER	TOTAL SHEETS	REVISION
C-08	12	C





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	90% SUBMITTAL			
C	8/26/2019	GS	ALF	ALF
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MAWS
MOBILE AREA WATER & SEWER SYSTEM

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TITLE:
HALLS MILL CREEK
SEWER ABANDONMENT
PLAN SHEET 5 OF 6

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DATE	SCALE
1/17/2019	AS SHOWN

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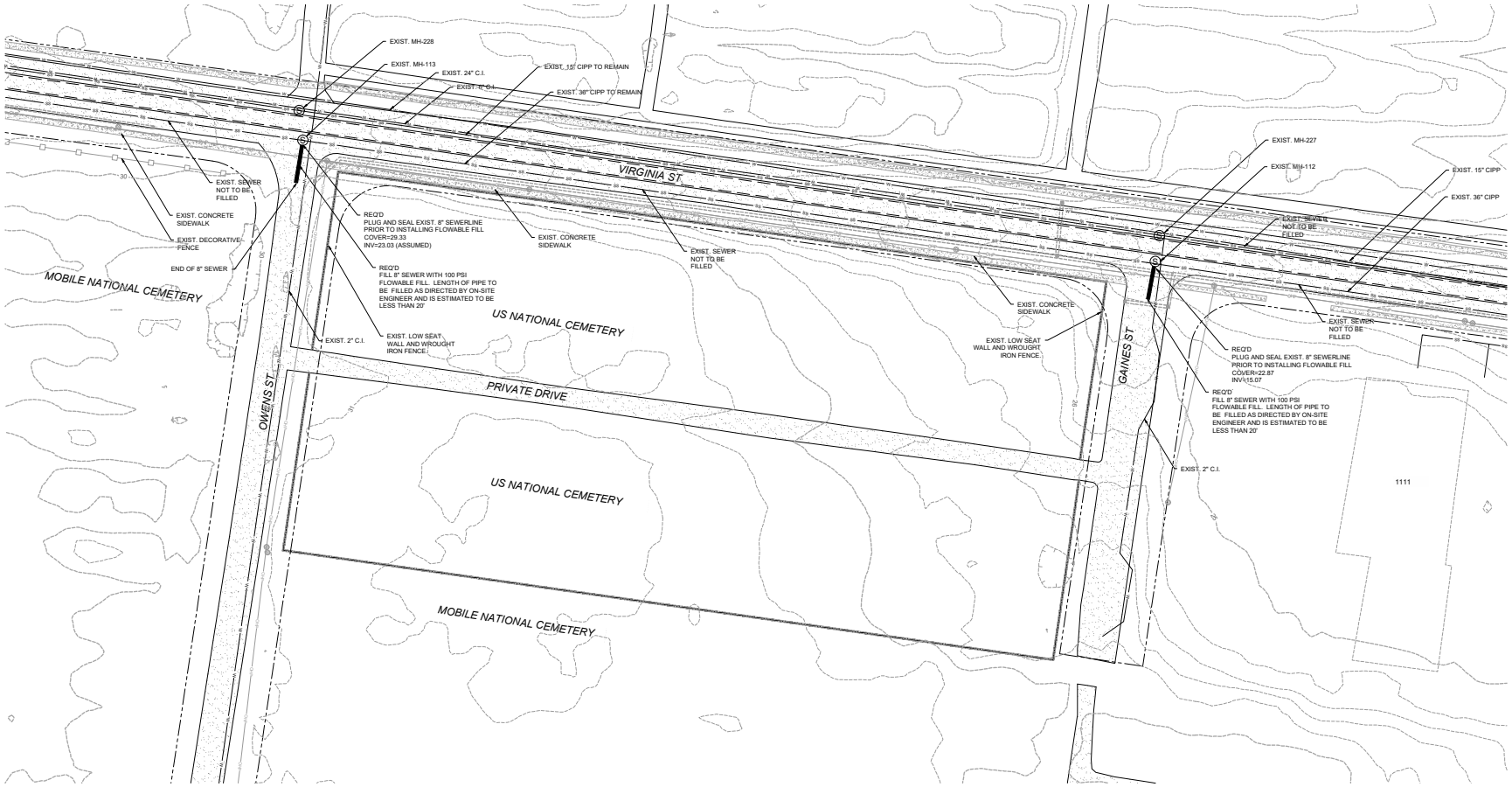
TJJ	GS	ALF

PROJECT NUMBER: 19008

DRAWING NUMBER	TOTAL SHEETS	REVISION
C-09	12	C



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TITLE:
HALLS MILL CREEK
SEWER ABANDONMENT

PLAN SHEET 6 OF 6

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DATE	SCALE
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DRAWN BY:	CHECKED BY:	APPROVED BY:
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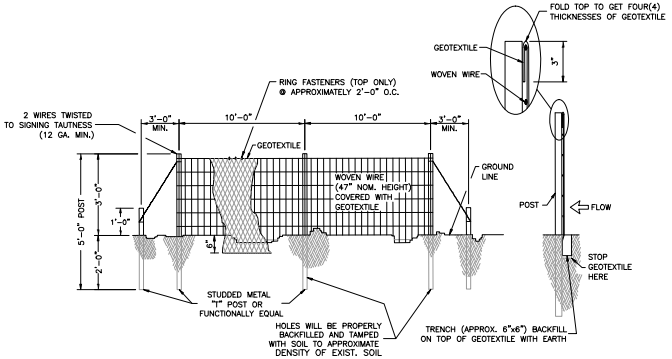
PROJECT NUMBER: 19008

DRAWING NUMBER	TOTAL SHEETS	REVISION
C-10	12	C



SILT FENCE TYPE A DETAIL (TYPICAL)

NOT TO SCALE

SECTION

EROSION & SEDIMENT CONTROL NOTES:

1.) EROSION AND SEDIMENT CONTROL MEASURES SHOWN ARE CONSIDERED TO BE THE MINIMUM ACCEPTABLE MEASURES. THE CONTRACTOR SHALL UTILIZE "BEST MANAGEMENT PRACTICES" AS NECESSARY TO PREVENT SEDIMENT LADEN STORMWATER RUNOFF OR ERODED MATERIALS FROM LEAVING THE CONSTRUCTION SITE. THE CONTRACTOR SHALL MAINTAIN AND REPAIR EROSION CONTROL MEASURES IN AN EXPEDITIOUS MANNER AFTER EACH RAINFALL EVENT AND INSPECT THEM TWICE WEEKLY IN THE EVENT OF NO RAINFALL. BEST MANAGEMENT PRACTICES (BMPS) ARE DEFINED AS: SCHEDULES OF ACTIVITIES, PROHIBITIONS OF PRACTICES, MAINTENANCE PROCEDURES, AND OTHER MANAGEMENT PRACTICES TO PREVENT OR REDUCE THE POLLUTION OF WATERS OF THE UNITED STATES. BMPS ALSO INCLUDE TREATMENT REQUIREMENTS, OPERATING PROCEDURES, AND PRACTICES TO CONTROL PLANT SITE RUNOFF, SPILLAGE OR LEAKS, SLUDGE OR WASTE DISPOSAL, OR DRAINAGE FROM RAW MATERIAL STORAGE. WITH REGARD TO CONSTRUCTION THESE MAY INCLUDE STRUCTURAL DEVICES OR NONSTRUCTURAL PRACTICES THAT ARE DESIGNED TO PREVENT POLLUTANTS FROM ENTERING WATER OR TO DIRECT THE FLOW OF WATER.

2.) TYPE "A" SILT FENCE SHALL BE USED IN AREAS WHERE INDICATED OR AS DIRECTED BY THE ENGINEER.

3.) SILT FENCES ARE TEMPORARY SEDIMENT CONTROL ITEMS THAT SHALL BE ERECTED OPPOSITE ERODABLE AREAS SUCH AS NEWLY GRADED FILL SLOPES AND ADJACENT TO STREAMS AND CHANNELS.

4.) SILT FENCES SHALL BE IN PLACE PRIOR TO ANY CONSTRUCTION OPERATION. SILT FENCES SHALL BE CLEANED, SILT REMOVED, AND REPAIRED AS NECESSARY AS PART OF REQUIRED BMP MAINTENANCE.

5.) AFTER THE CONSTRUCTION AREA IS STABILIZED BY PAVING OR A FIRM STAND OF GRASS AND EROSION ACTIVITY CURTAILED, SILT FENCES SHALL BE REMOVED.

6.) STORM DRAIN INLETS SHALL BE PROTECTED FROM SEDIMENT ENTRY WITH SEDIMENT BARRIERS LIKE "SILT SAVER" (R) UNTIL THE SITE IS STABILIZED BY PAVING OR A FIRM STAND OF GRASS IS OBTAINED.

7.) CONTRACTOR IS REQUIRED TO STABILIZE DISTURBED AREAS WITH TEMPORARY GRASS OR SOIL STABILIZER IF AREAS WILL REMAIN DISTURBED FOR 14 DAYS OR LONGER.

8.) THE CONTRACTOR IS HEREBY DIRECTED TO PROVIDE SEDIMENT RUNOFF PROTECTION WHERE NECESSARY TO PREVENT SILT LADEN RUNOFF FROM ENTERING THE STREAMS NEAR THE PROPOSED PROJECT.

9.) GRASS GROUND COVER SHALL BE MAINTAINED UPON COMPLETION OF CONSTRUCTION.

10.) THE EROSION AND SEDIMENT CONTROL ITEMS SHOWN ON THE PLANS ARE PROVIDED AS A STARTING POINT FOR A COMPREHENSIVE SEDIMENT AND EROSION CONTROL PLAN TO BE IMPLEMENTED THROUGHOUT CONSTRUCTION. THE CONTRACTOR SHALL BE PREPARED TO ANTICIPATE AND ADJUST BEST MANAGEMENT PRACTICES AS NECESSARY THROUGHOUT CONSTRUCTION TO RESTRICT THE AMOUNT OF SILT LADEN RUNOFF LEAVING THE PROJECT.

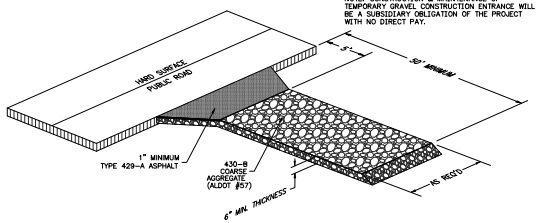
11.) SEDIMENT & EROSION CONTROL ITEMS SHALL BE CONSTRUCTED AND MAINTAINED IN ACCORDANCE WITH THE FOLLOWING HANDBOOKS:
A.) ALABAMA HANDBOOK FOR EROSION CONTROL, SEDIMENT CONTROL, AND STORM WATER MANAGEMENT ON CONSTRUCTION SITES AND URBAN AREAS.
B.) EPA STORM WATER MANAGEMENT FOR CONSTRUCTION ACTIVITIES.
C.) EPA GUIDANCE SPECIFYING MANAGEMENT MEASURES FOR SOURCES OF NON-POINT POLLUTION IN COASTAL WATERS.
D.) AASHTO GUIDELINES FOR EROSION AND SEDIMENT CONTROL IN HIGHWAY CONSTRUCTION.
E.) SOUTH ALABAMA REGIONAL PLANNING COMMISSION BEST MANAGEMENT PRACTICES FOR NON-POINT SOURCE RUNOFF CONTROL, MOBILE & BALDWIN COUNTIES, ALABAMA.

12.) UNLESS OTHERWISE SET FORTH IN CONTRACT DOCUMENTS WITH THE PROJECT OWNER, WHEN AN ADEM STORMWATER DISCHARGE PERMIT (NOR) HAS BEEN OBTAINED FOR THE SITE, THE CONTRACTOR SHALL INSTALL A RAIN GAUGE AT THE SITE AND MAINTAIN A WRITTEN DAILY LOG OF RAINFALL AMOUNTS AT THE SAME TIME EACH DAY. AT THE END OF EACH MONTH, THE CONTRACTOR MUST PROVIDE A COPY OF THAT MONTH'S RAINFALL RECORDS TO THE ENGINEER. THE RAIN GAUGE MUST BE INSTALLED AT THE TOP OF A POST PLACED AT LEAST 50' FROM TREES, BUILDINGS, OR OTHER OBJECTS THAT COULD IMPEDE THE FREE ENTRY OF RAINFALL INTO THE RAIN GAUGE. THE CONTRACTOR MUST NOTIFY THE ENGINEER WITHIN 8 HOURS OF RECORDING ANY DAILY RAINFALL AMOUNT EXCEEDING 0.75". THE CONTRACTOR SHALL POST THE NOR PERMIT NUMBER IN A HIGHLY VISIBLE LOCATION ON THE SITE AND MAINTAIN IT IN A LEGIBLE CONDITION UNTIL THE PROJECT IS COMPLETED AND A PERMIT TERMINATION HAS BEEN APPROVED BY ADEM. UPON COMPLETION OF THE PROJECT, THE CONTRACTOR MUST NOTIFY THE ENGINEER IN ORDER TO INSPECT THE SITE AND APPLY FOR A TERMINATION OF THE ADEM PERMIT.

13.) THE CONTRACTOR SHALL REFER TO THE "EROSION CONTROL, DITCHES, AND FLUMES" SECTION OF ALDOT SPECIAL AND STANDARD HIGHWAY DRAWINGS FOR ADDITIONAL METHODS OF EROSION AND SEDIMENT CONTROL.

14.) TEMPORARY GRAVEL CONSTRUCTION ENTRANCE SHALL BE USED IN AREAS WHERE INDICATED OR AS DIRECTED BY THE ENGINEER.

NOTE: CONSTRUCTION & MAINTENANCE OF TEMPORARY GRAVEL CONSTRUCTION ENTRANCE WILL BE A SUBSIDIARY OBLIGATION OF THE PROJECT WITH NO DIRECT PAY.



TEMPORARY GRAVEL CONSTRUCTION ENTRANCE

N.T.S.

A	2/25/2019	TJJ	GS	ALF
	30% SUBMITTAL			
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	90% SUBMITTAL			
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MAWS MOBILE AREA WATER & SEWER SYSTEM

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HALLS MILL CREEK SEWER ABANDONMENT
EROSION AND SEDIMENT CONTROL DETAILS

TITLE

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DATE	SCALE
1/17/2019	AS SHOWN

DRAWN BY:	CHECKED BY:	APPROVED BY:
TJJ	GS	ALF

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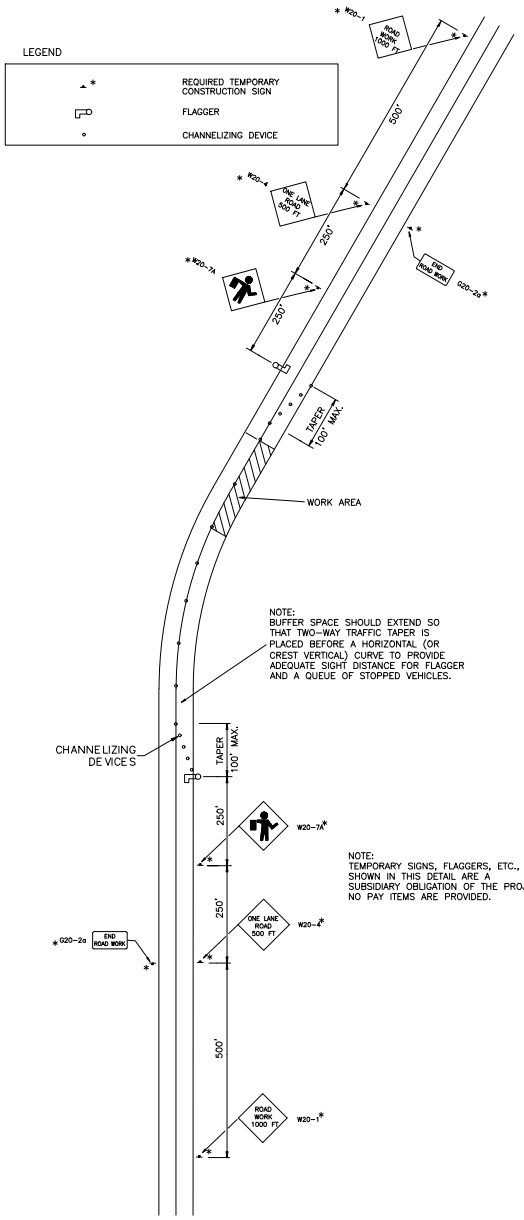
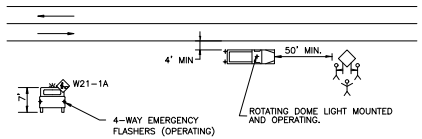
C-11	12	C



TEMPORARY ONE-LANE CLOSURE DETAIL

NOT TO SCALE



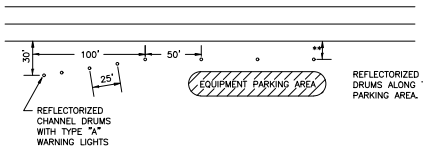
TYPICAL VEHICLE WITH SIGN AND ROTATING DOME LIGHT MOUNTED AND OPERATING.

NOTE: NO DIRECT PAYMENT WILL BE MADE FOR THE ROTATING DOME LIGHT OR SIGN MOUNTED ON VEHICLE.

TYPICAL METHOD FOR PLACEMENT OR REMOVAL OF CONSTRUCTION SIGNS

TRAFFIC CONTROL NOTES

701 THE TRAFFIC CONTROL PLAN IS DEVELOPED IN CONFORMANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, PART VI, CURRENT EDITION. THE TRAFFIC CONTROL DEVICES INDICATED REPRESENT CONDITIONS KNOWN DURING PLAN DEVELOPMENT. IN THE EVENT ACTUAL CONDITIONS WARRANT ADDITIONAL TRAFFIC CONTROL DEVICES, THE SAME SHALL BE INSTALLED IN CONFORMANCE WITH THE MUTCD, PART VI, AS DIRECTED BY THE ENGINEER.
702 THE CONTRACTOR SHALL PLACE ALL ADVANCE WARNING SIGNS BEFORE PROCEEDING WITH HIS WORK. SIGNS SHALL BE PLACED IN ORDER IN THE DIRECTION OF TRAFFIC AND REMOVED IN REVERSE ORDER.
703 ANY SIGNING OR OTHER TRAFFIC CONTROL DEVICES NOT SHOWN ON THIS TCP BUT DEEMED NECESSARY BY THE ENGINEER SHALL BE FURNISHED BY THE CONTRACTOR AND PAID FOR UNDER THE APPROPRIATE PAY ITEM.
704 DURING NONWORKING HOURS, NO EQUIPMENT OR MATERIAL SHALL BE PARKED OR STORED CLOSER THAN 30 FEET TO THE EDGE OF ANY ROADWAY CARRYING TRAFFIC. WHEN THIS IS NOT PRACTICAL, IT SHALL BE PLACED IN AN AREA DESIGNATED BY THE ENGINEER AND DELINEATED BY REFLECTORIZED DRUMS AND WARNING LIGHTS. THIS INCLUDES STORAGE OF TRAFFIC CONTROL DEVICES SUCH AS TRAILER MOUNTED OR TEMPORARY SIGNS, BARRICADES, DRUMS, ETC., WHICH ARE NOT IN USE DURING NONWORKING HOURS.
705 THE CONTRACTOR SHALL MAINTAIN AT LEAST ONE ACCESS TO BUSINESSES AND RESIDENCES DURING ALL PHASES OF CONSTRUCTION.
706 THE CONTRACTOR MAY EXECUTE AS MANY OPERATIONS OF CONSTRUCTION SIMULTANEOUSLY AS HE CAN SAFELY AND EFFICIENTLY HANDLE WITH THE APPROVAL OF THE ENGINEER.
707 THE CONTRACTOR WILL BE PERMITTED TO DEVELOP THEIR OWN TRAFFIC CONTROL PLAN TO BE USED IN LIEU OF THIS TRAFFIC CONTROL PLAN. THE PLAN MUST BE APPROVED BY THE ENGINEER.
708 THE CONTRACTOR SHALL NOT BE ALLOWED TO LEAVE OPEN CUTS ADJACENT TO ANY TRAVELED WAY DURING NONWORKING HOURS.
709 FLAGGERS SHALL BE PROPERLY EQUIPPED, ATTIRED, AND IN SIGHT OF, OR IN RADIO CONTACT WITH EACH OTHER AT ALL TIMES.
710 WHERE FLAGGERS ARE REQUIRED, STAFF MOUNTED STOP/SLOW PADDLES SHALL BE UTILIZED.
711 THE 24-INCH ORANGE FLAGS SHALL BE A SUBSIDIARY OBLIGATION OF ITEM 740-B.
712 ALL REQUIRED CONSTRUCTION SIGNS MOUNTED ON TEMPORARY SUPPORTS ARE TO BE REMOVED OR COVERED AT THE COMPLETION OF THE DAY'S OPERATION OR WHEN NO WORK IS BEING PERFORMED.
713 ALL SIGN SUPPORTS SHALL COMPLY WITH STANDARD DRAWING TCD100.
714 ALL CONSTRUCTION SIGN LIGHTING SHALL COMPLY WITH SPECIAL DRAWING LCS107
715 ALL SIGNS SHALL MEET M.U.T.C.D., PART VI, CURRENT EDITION, TYPE IV STANDARDS. ALL CHANNELIZING DRUMS SHALL BE TYPE III.
716 DO NOT BLOCK VIEW OF STOP SIGNS OR ANY OTHER PERMANENT SIGN, WITH PROJECT SIGNS OR ANY OTHER TRAFFIC CONTROL DEVICE.
717. A REFLECTORIZED DRUM SHALL BE PLACED IN FRONT OF EACH CONSTRUCTION SIGN THAT IS STORED ON THE SHOULDER AT ANY TIME DURING THE COURSE OF THE PROJECT, INCLUDING BUT NOT LIMITED TO COVERED SIGNS AND TEMPORARY MOUNTED SIGNS THAT HAVE BEEN LAID OVER. THE COST OF THIS REQUIREMENT SHALL BE A SUBSIDIARY OBLIGATION OF ITEM 740B-000 (CONSTRUCTION SIGNS) WHEN A PAY ITEM FOR CHANNELIZING DRUMS IS NOT PROVIDED IN THE PLANS.



**DRUMS TO BE AS FAR AS PRACTICAL FROM EDGE OF PAVEMENT. MINIMUM DESIRABLE DISTANCE IS 15 FEET FOR FREEWAY TYPE FACILITIES AND 10 FEET FOR OTHER FACILITIES. FOR UNUSUAL CONDITIONS, SUCH AS SPECIAL EQUIPMENT OR LIMITED AVAILABLE SPACE, DIMENSIONS LESS THAN DESIRABLE SHALL BE AS DIRECTED BY THE ENGINEER. (TO BE FURNISHED BY THE CONTRACTOR WITHOUT COST TO THE COUNTY)

DELINEATING DETAILS FOR EQUIPMENT PARKING AREAS

(FOR USE ONLY WHEN EQUIPMENT CANNOT BE STORED THIRTY FEET OR MORE FROM THE EDGE OF PAVEMENT.)

A	2/25/2019	TJJ	GS	ALF
	30% SUBMITTAL			
B	7/25/2019	GS	ALF	ALF
	90% SUBMITTAL			
C	8/28/2019	GS	ALF	ALF
	ISSUE FOR BID			

WE UTILIZE SCRUTINIZING TECHNIQUES IN OUR DESIGN AND THESE SOMETIMES ARE NOT VISIBLE. IF OUR DESIGN HAS BEEN COPIED OR PRINTED WITH A LOW QUALITY SETTING, YOU CAN BE SURE THAT YOU HAVE A HIGH QUALITY PRINT OR COPY IF YOU CAN SEE THE DRIVEN ENGINEERING, INC. LOGO BEHIND THE TEXT IN THIS BOX.

MAWSS MOBILE AREA WATER & SEWER SYSTEM

ALABAMA LICENSED 22182 PROFESSIONAL ENGINEER ALFRED L. FISHER

Driven Engineering, Inc.
8005 Morris Hill Road, Semmes, AL 36575
(251) 648-4011 Office
(251) 648-4017 Fax
www.drivenengineering.com

HALLS MILL CREEK SEWER ABANDONMENT

TRAFFIC CONTROL DETAILS

TITLE

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DATE	SCALE
1/17/2019	AS SHOWN

DRAWN BY:	CHECKED BY:	APPROVED BY:
TJJ	GS	ALF

PROJECT NUMBER: 19008

DRAWING NUMBER	TOTAL SHEETS	REVISION
C-12	12	C