



KAY IVEY  
GOVERNOR

# ALABAMA DEPARTMENT OF TRANSPORTATION

SOUTHWEST REGION  
OFFICE OF DISTRICT ENGINEER  
47450 RABUN ROAD  
BAY MINETTE, ALABAMA 36507  
TELEPHONE: (251) 937-2086  
FAX (251) 937-8475



JOHN R. COOPER  
TRANSPORTATION DIRECTOR

October 06, 2017

Mr. Vincent E. Calametti, P.E.  
Southwest Regional Engineer  
Alabama Department of Transportation  
1701 West I-65 Service Road North  
Mobile, Alabama 36618-1109

Date Permit Received: 09-22-17  
Date Check Sent to Finance: \_\_\_\_\_  
Date Sent to Region: 10-06-17  
Date Sent to Central Office: \_\_\_\_\_  
Date Sent to Applicant: 10-06-17  
Date Bond Released: \_\_\_\_\_

Attention: Mr. Jason Shaw, P.E.

Attached please find the following permit for your approval:

## PERMIT ROUTING INFORMATION

Permit Number(s): 9-2-10751  
Permit Application Type(s): Utility  
Applicants Legal Name: Uniti Fiber, LLC  
Route Number: US-90  
Mile Post: 40.55 – 40.81  
Applicants Mailing Address: 107 St. Francis Street, Suite 1800  
Mobile, AL 36602

Service: \_\_\_\_\_ District Approval: X  
Letter: \_\_\_\_\_ Region Approval: \_\_\_\_\_  
Central Office Approval: \_\_\_\_\_

Samuel Pal  
District Manager

10-6-17  
Date

Permit Manager

Date

Traffic Manager

Date

Utility Manager

Date

Maintenance Engineer

Date

SJP/jm  
Attachment  
C: File



KAY IVEY  
GOVERNOR

ALABAMA  
DEPARTMENT OF TRANSPORTATION

SOUTHWEST REGION – DISTRICT 2  
OFFICE OF DISTRICT ENGINEER  
47450 RABUN ROAD  
BAY MINETTE, ALABAMA 36507  
TELEPHONE: (251) 937-2086  
FAX (251) 937-8475



JOHN R. COOPER  
TRANSPORTATION DIRECTOR

October 06, 2017

Uniti Fiber, LLC  
107 St. Francis Street, Suite 1800  
Mobile, AL 36602

Dear Ms. Thompson:

**RE: Permit Number: 9-2-10751  
Baldwin County**

**Permit Expiration Date: October 06, 2018**

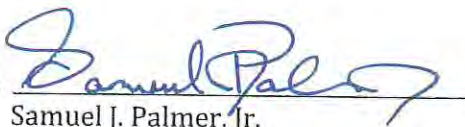
Attached please find an approval for approximately 1401 LF of new lash to existing poles, 7 LF of manual trenching, and the placement of (1) handhole.

Performance of this work shall be done in accordance with all current requirements of the Alabama Department of Transportation. It is required a print of the approved drawings, bearing my stamp signature, be on the jobsite throughout the time of installation. During the installation of this permitted utility work, all traffic control devices shall be in accordance with the MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES – PART VI, 2009 EDITION. All work performed under this permit shall comply with current EPA and ADEM policies.

Mr. Samuel J. Palmer, Jr., District Administrator, will administer the inspection for the Alabama Department of Transportation. It is required you contact him at least 48 hours prior to beginning work. Upon completion of the work, please notify him in writing requesting a final inspection. His address is 47450 Rabun Road, Bay Minette, Alabama 36507. His telephone number is (251) 937-2086.

Sincerely,

V. E. CALAMETTI, P.E., REGION ENGINEER

By:   
Samuel J. Palmer, Jr.  
District Administrator

SJP/jm  
Attachment  
c: Mr. Jason Shaw, P.E. Maintenance Engineer-Mobile  
Stacey N. Glass, P.E.  
File

ALABAMA DEPARTMENT OF TRANSPORTATION  
PERMIT AGREEMENT FOR THE ACCOMMODATION OF UTILITY  
FACILITIES ON PUBLIC RIGHT-OF-WAYCounty BaldwinRoute Number SR 16Milepost 40.81-40.55

## FOR OFFICIAL USE ONLY

DATE RECEIVED FROM APPLICANT: 09/22/17PERMIT NUMBER: 9-2-10751Bonding Agency F&D Surety Co. of Maryland Bond Number 8950772

Associated Permits and/or Documents \_\_\_\_\_

THIS AGREEMENT is entered into this the 21st day of September, 2017, by and between the Alabama Department of Transportation acting by and through its Transportation Director hereinafter referred to as ALDOT and Uniti Fiber, LLC DBA Southern Light, LLC, a Utility hereinafter referred to as the APPLICANT.

## WITNESSETH

WHEREAS, the APPLICANT desires to have its facilities accommodated on public highway right-of-way in Baldwin County, Alabama consisting approximately of the following:  
Approx. 1401' of lash new, 7' of manual trenching, & the placement of (1) handhole

\_\_\_\_\_; and

WHEREAS, ALDOT hereby grants to the APPLICANT approval to cross or locate its facilities on the public right-of-way at the location and in the manner hereinafter set forth:

NOW, THEREFORE, it is agreed by and between the parties hereto as follows:

1. The APPLICANT will install its facilities on public right-of-way in accordance with plans and specifications of the APPLICANT as approved by ALDOT which plans and specifications are hereby made a part of this permit by reference.

2. In the installation of facilities and performing work under this agreement, the APPLICANT will conform to the provisions of the latest edition of the Alabama Department of Transportation Utility Manual, which manual is of record in ALDOT and is hereby made a part of this permit by reference.

3. The national Manual on Uniform Traffic Control Devices, ALDOT approved edition, is hereby made a part of this permit by reference and will be conformed to as the provisions thereof are applicable to such work. Such Manual is of record in ALDOT at the execution of this Agreement.



4. The Federal Water Pollution Control Act, The Federal Insecticide, Fungicide, and Rodenticide Act, The Alabama Water Pollution Control Act, The Alabama Environmental Management Act, The Clean Water Act (1987), and the Alabama Nonpoint Source Management Program (1989) are hereby made a part of this permit by reference.

5. The APPLICANT will conform to the regulations of the Environmental Protection Agency (EPA) and of the Alabama Department of Environmental Management (ADEM), latest edition, for both installation and maintenance of such facilities.

The APPLICANT will provide proof of applicable permit coverage and conform to the above referenced regulations for both the facility installation and maintenance of permitted facilities and areas of rights-of-way. The APPLICANT must provide a copy of the Notice of Intent (NOI) issued by ADEM. This will assure compliance with Phase II of storm-water construction requirements. In the event a NOI is not required, APPLICANT must submit to ALDOT a Best Management Practices (BMP) plan to control sediment run-off.

6. In the event that ALDOT is issued a citation or any other enforcement document by ADEM/EPA for failure to comply with applicable requirements, it shall be the responsibility of the APPLICANT to bring all BMPs into compliance and to pay for any fines, assessments, etc. that may be issued to ALDOT by ADEM/EPA.

7. Underground Damage Prevention Legislation, Alabama Act 94-487, is hereby made a part of this permit by reference. The APPLICANT will conform to the above referenced regulations for both the facility installation and maintenance of permitted facilities and areas of rights-of-way. Should the permitted work require a locate request ticket, no work shall begin until a copy of such ticket is obtained and the APPLICANT shall keep a copy of such ticket at the site of work.

8. If hazardous materials, wastes, substances, or as otherwise defined by Code of Alabama § 6-5-332.1(a)(2) (1993 Repl. Vol.) are encountered in the execution of this Agreement it will be the responsibility of the APPLICANT to notify the proper agency responsible for said hazardous materials and to comply with any and all environmental regulations as established by the Environmental Protection Agency (EPA), Alabama Department of Environmental Management (ADEM), and of the Occupational Safety and Health Administration (OSHA) in the proper disposition of the hazardous materials encountered.

9. This permit is valid for the contract period which is defined as follows: All proposed work as described and submitted in the permit documents must be completed within one year from the approved date of the permit and for a period covering one year from ALDOT acceptance of proposed work.

10. The APPLICANT will perform or cause to be performed the work applied for in this permit contract and will restore the highway in the work area in as good condition as the same was prior to the work and will maintain the accomplished work and highway work area in a condition satisfactory to ALDOT. Should the APPLICANT not maintain the work or create an unsafe condition during the contract period, ALDOT reserves the right to remove any work and restore the ROW to a safe condition at the expense of the APPLICANT and the APPLICANT agrees to pay ALDOT all such costs as a result.

11. Once work is begun, the APPLICANT shall pursue the work continuously and diligently until completion. Should the APPLICANT feel that the work cannot be completed in a one year period, they shall submit in writing (30 days prior to the termination date) to ALDOT the reasons for an extension of time. ALDOT will determine whether an extension may be approved.

12. The APPLICANT will file with ALDOT an acceptable certified check or bond in the penal amount of \$ 100,000 (Bond Number: 8950772) to guarantee the faithful performance of this permit contract in its entirety during the contract period as defined in item 9. Upon satisfactory completion and acceptance of all work provided for in this permit contract, the check or bond, as applicable, will be returned to the APPLICANT; otherwise, the proceeds from the check, or any amount received by ALDOT as a result of the bond, will be applied to complete and fulfill the permit contract terms. In the instance that ALDOT determines a bond on record is necessary, the APPLICANT shall provide such bond to ALDOT. The bond amount shall be determined by ALDOT.

13. Indemnification Provisions. Please check the appropriate type of applicant:

By entering into this agreement, the APPLICANT is not an agent of the State, its officers, employees, agents or assigns. The APPLICANT is an independent entity from the State and nothing in this agreement creates an agency relationship between the parties.



If the applicant is an incorporated municipality or gas district then:

Subject to the limitations on damages applicable to municipal corporations under Ala. Code § 11-47-190 (1975), the APPLICANT shall defend, indemnify, and hold harmless the State of Alabama, ALDOT, its officers, officials, agents, servants, and employees, in both their official and individual capacities, from and against (1) claims, damages, losses, and expenses, including but not limited to attorneys' fees arising out of, connected with, resulting from or related to the work performed by the APPLICANT, or its officers, employees, contracts, agents or assigns (2) the provision of any services or expenditure of funds required, authorized, or undertaken by the APPLICANT pursuant to the terms of this Agreement, or (3) any damage, loss, expense, bodily injury, or death, or injury or destruction of tangible property (other than the work itself), including loss of use therefrom, and including but not limited to attorneys' fees, caused by the negligent, careless or unskillful acts of the APPLICANT its agents, servants, representatives or employees, or the misuse, misappropriation, misapplication, or misexpenditure of any source of funding, compensation or reimbursement by the APPLICANT, its agents, servants, representatives or employees, or anyone for whose acts the APPLICANT may be liable.



If the applicant is county government then:

The APPLICANT shall be responsible at all times for all of the work performed under this agreement and, as provided in Ala. Code § 11-93-2 (1975), the APPLICANT shall protect, defend, indemnify and hold harmless the State of Alabama, The Alabama Department of Transportation, its officials, officers, servants, and employees, in both their official and individual capacities, and their agents and/or assigns.

For all claims not subject to Ala. Code § 11-93-2 (1975), the APPLICANT shall indemnify and hold harmless the State of Alabama, the Alabama Department of Transportation, the officials, officers, servants, and employees, in both their official and individual capacities, and their agents and/or assigns from and against any and all action, damages, claims, loss, liabilities, attorney's fees or expense whatsoever or any amount paid in compromise thereof arising out of, connected with, or related to the (1) work performed under this Agreement, (2) the provision of any services or expenditure of funds required, authorized, or undertaken by the APPLICANT pursuant to the terms of this agreement, or (3) misuse, misappropriation, misapplication, or misexpenditure of any source of funding, compensation or reimbursement by the APPLICANT, its agents, servants, representatives, employees or assigns.

☐ If the applicant is a state governmental agency or institution then:

The APPLICANT shall be responsible for damage to life and property due to activities of the APPLICANT of employees of APPLICANT in connection with the work or services under this Agreement. The APPLICANT agrees that its contractors, subcontractors, agents, servants, vendors or employees of APPLICANT shall possess the experience, knowledge and skill necessary to perform the particular duties required or necessary under this Agreement. The APPLICANT is a state institution and is limited by the Alabama Constitution in its ability to indemnify and hold harmless another entity. The APPLICANT maintains self-insurance coverage applicable to the negligent acts and omissions of its officers and employees, which occur within the scope of their employment by the APPLICANT. The APPLICANT has no insurance coverage applicable to third-party acts, omissions or claims, and can undertake no obligation that might create a debt on the State Treasury. The APPLICANT agrees ALDOT shall not be responsible for the willful, deliberate, wanton or negligent acts of the APPLICANT, or its officials, employees, agents, servants, vendors, contractors or subcontractors. The APPLICANT shall require, its contractors and its subcontractors, agents, servants or vendors, as a term of its contract with the APPLICANT, to include ALDOT as an additional insured in any insurance policy providing coverage for the work to be performed pursuant to and under this Agreement and to provide the APPLICANT a copy of the insurance policy declaration sheet confirming the addition of ALDOT thereto.



If the applicant is not a county, incorporated municipality, or state governmental agency or institution then:

The APPLICANT will protect, defend, indemnify and hold harmless the State of Alabama, ALDOT, the officials, officers, and employees, in both their official and individual capacities, and their agents and/or assigns, from and against any and all actions, damages, claims, loss, liabilities, attorney's fees or expense whatsoever or any amount paid in compromise thereof arising out of or connected with the work performed under this Permit, and/or the APPLICANT's failure to comply with all applicable laws or regulations.

14. The APPLICANT will be obligated for the payment of damages occasioned to private property, public utilities or the general public, caused by the legal liability (in accordance with Alabama and/or Federal law) of the APPLICANT, its agents, servants, employees or facilities.

15. ALDOT in executing this Agreement does not in any way assume the responsibility for the maintenance of the facilities of the APPLICANT, nor the responsibility for any damage to the facilities caused by third parties.

16. The APPLICANT will have a copy of this Agreement on the project site at all times while said work is being performed.

17. Nothing contained in this Permit Agreement, nor the issuance or receipt thereof, shall be construed to alter or affect the title of ALDOT to the public right-of-way nor to increase, decrease or modify in any way the rights of the APPLICANT provided by law with respect to the construction, operation or maintenance of its facilities on the public right-of-way.

18. Reimbursement for future relocations of the APPLICANT'S facilities will be in accordance with State law in effect at the time such relocations are made.

19. The APPLICANT stipulates that the specific use of these facilities located upon public right-of-way is fiber optic installation/telecommunications. The APPLICANT further stipulates that should this specific use change at any time in the future that the APPLICANT will notify ALDOT immediately of the change.



This Agreement is deemed to be executed on the date hereinabove set forth by the parties hereto in their respective names by those persons and officials thereunto duly authorized. Witness our hands and seals, this the 21st day of September, 2017.

Uniti Fiber, LLC DBA Southern Light, LLC.

Legal Name of Applicant

WITNESS:

Andrew Bramblett

By: K. Sorpinto Permitting Specialist  
Authorize Signature and Title for Applicant

Katherine Subirats

Typed or Printed Name of Signee

107 St. Francis Street, Suite 1800

Address Line 1

Mobile, AL 36602

Address Line 2

(251) 445-8651

Telephone Number

**FOR OFFICIAL USE ONLY**

**RECOMMENDED FOR APPROVAL:**

DISTRICT: Samuel J. Palmer Jr.  
Printed Name

Samuel J. Palmer Jr.  
Signature

10-6-17  
Date

AREA: \_\_\_\_\_  
Printed Name

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Date

REGION: \_\_\_\_\_  
Printed Name

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Date

**APPROVED:**

**ALABAMA DEPARTMENT OF TRANSPORTATION  
ACTING BY AND THROUGH ITS TRANSPORTATION  
DIRECTOR**

(PLEASE CHECK APPROPRIATE BOX)

- ☐ CENTRAL OFFICE  
☐ REGION  
☐ AREA  
☐ DISTRICT

By: \_\_\_\_\_  
Printed Name

V. E. Calamander STP  
Signature

10-6-17  
Date

January 1, 2017

**RE: Horizontal Directional Drilling Machine Spec Sheet**

Pursuant to the application request of Southern Light, LLC to install underground telecommunications services in the working limits of the ALDOT Right-of-Way here sites both the general drilling fluid system capabilities and the expected operational thresholds forecasted as it pertains to the (a) permit request (ref plans). The latter should be applicable to the permit request as the maximum rates are not implemented under normal boring conditions.

**Vermeer Operational Specs:**

- A. Vermeer 36x50 or Ditch Witch JT30: capable of a maximum flow rate of 50 GPM at 1300 PSI
- B. Vermeer 24x40 or Ditch Witch JT25: capable of a maximum flow rate of 50 GPM at 1300 PSI
- C. Vermeer 16x20 or Ditch Witch JT20: capable of a maximum flow rate of 25 GPM at 1000 PSI
- D. Vermeer 9x13 or Ditch Witch JT9: capable of a maximum flow rate of 20 GPM at 800 PSI

\*The drill size selected will be chosen on a per project basis as pertains to the permit (ref plans).

\* "Boring Procedure For ALDOT Right-Of-Way" – Reference Note "J"

*At no time will 15 GPM at 350 PSI be used without prior notification given to ALDOT.*

**Expectant Conditions:**

The normal boring flow may vary but for most soil conditions is **5-10 GPM** for the larger drills listed above (A&B). The medium/smaller drills listed above (C&D) will average **3-8 GPM**. Expected maximum pressure for a **10 GPM flow is 300 PSI**. Only in short 10-20 second burst would additional flow rate/pressure need be applied to clear an obstruction or advance the drill head steeply upward towards the receiving pit. As stated, these rates are applicable to field installation and the permit application.

Please contact Katherine Subirats (251) 445-8651 for questions and comments.  
Thank you very much for your cooperation.

Sincerely,

Michael McCarty  
Southern Light, LLC Outside Plant Division



## EXTRACT FROM BY-LAWS OF THE COMPANIES

"Article V, Section 8, Attorneys-in-Fact. The Chief Executive Officer, the President, or any Executive Vice President or Vice President may, by written instrument under the attested corporate seal, appoint attorneys-in-fact with authority to execute bonds, policies, recognizances, stipulations, undertakings, or other like instruments on behalf of the Company, and may authorize any officer or any such attorney-in-fact to affix the corporate seal thereto; and may with or without cause modify or revoke any such appointment or authority at any time."

### CERTIFICATE

I, the undersigned, Vice President of the ZURICH AMERICAN INSURANCE COMPANY, the COLONIAL AMERICAN CASUALTY AND SURETY COMPANY, and the FIDELITY AND DEPOSIT COMPANY OF MARYLAND, do hereby certify that the foregoing Power of Attorney is still in full force and effect on the date of this certificate; and I do further certify that Article V, Section 8, of the By-Laws of the Companies is still in force.

This Power of Attorney and Certificate may be signed by facsimile under and by authority of the following resolution of the Board of Directors of the ZURICH AMERICAN INSURANCE COMPANY at a meeting duly called and held on the 15th day of December 1998.

RESOLVED: "That the signature of the President or a Vice President and the attesting signature of a Secretary or an Assistant Secretary and the Seal of the Company may be affixed by facsimile on any Power of Attorney...Any such Power or any certificate thereof bearing such facsimile signature and seal shall be valid and binding on the Company."

This Power of Attorney and Certificate may be signed by facsimile under and by authority of the following resolution of the Board of Directors of the COLONIAL AMERICAN CASUALTY AND SURETY COMPANY at a meeting duly called and held on the 5th day of May, 1994, and the following resolution of the Board of Directors of the FIDELITY AND DEPOSIT COMPANY OF MARYLAND at a meeting duly called and held on the 10th day of May, 1990.

RESOLVED: "That the facsimile or mechanically reproduced seal of the company and facsimile or mechanically reproduced signature of any Vice-President, Secretary, or Assistant Secretary of the Company, whether made heretofore or hereafter, wherever appearing upon a certified copy of any power of attorney issued by the Company, shall be valid and binding upon the Company with the same force and effect as though manually affixed.

IN TESTIMONY WHEREOF, I have hereunto subscribed my name and affixed the corporate seals of the said Companies,  
this 16 day of August, 2017.



Michael Bond, Vice President

**TO REPORT A CLAIM WITH REGARD TO A SURETY BOND, PLEASE SUBMIT ALL REQUIRED INFORMATION TO:**

Zurich American Insurance Co.  
Attn: Surety Claims  
1299 Zurich Way  
Schaumburg, IL 60196-1056

**ZURICH AMERICAN INSURANCE COMPANY  
COLONIAL AMERICAN CASUALTY AND SURETY COMPANY  
FIDELITY AND DEPOSIT COMPANY OF MARYLAND  
POWER OF ATTORNEY**

KNOW ALL MEN BY THESE PRESENTS: That the ZURICH AMERICAN INSURANCE COMPANY, a corporation of the State of New York, the COLONIAL AMERICAN CASUALTY AND SURETY COMPANY, a corporation of the State of Maryland, and the FIDELITY AND DEPOSIT COMPANY OF MARYLAND a corporation of the State of Maryland (herein collectively called the "Companies"), by **GERALD F. HALEY, Vice President**, in pursuance of authority granted by Article V, Section 8, of the By-Laws of said Companies, which are set forth on the reverse side hereof and are hereby certified to be in full force and effect on the date hereof, do hereby nominate, constitute, and appoint **Harry W. MATTEI, M. Harland ISON, JR, Lewis BEVILLE, Allen H. LADD, Peyton L. MATTEI, Taylor BEVILLE and Anna B. RUSHING**, all of Mobile, Alabama, **EACH** its true and lawful agent and Attorney-in-Fact, to make, execute, seal and deliver, for, and on its behalf as surety, and as its act and deed: **any and all bonds and undertakings**, and the execution of such bonds or undertakings in pursuance of these presents, shall be as binding upon said Companies, as fully and amply, to all intents and purposes, as if they had been duly executed and acknowledged by the regularly elected officers of the ZURICH AMERICAN INSURANCE COMPANY at its office in New York, New York., the regularly elected officers of the COLONIAL AMERICAN CASUALTY AND SURETY COMPANY at its office in Owings Mills, Maryland., and the regularly elected officers of the FIDELITY AND DEPOSIT COMPANY OF MARYLAND at its office in Owings Mills, Maryland., in their own proper persons.

The said Vice President does hereby certify that the extract set forth on the reverse side hereof is a true copy of Article V, Section 8, of the By-Laws of said Companies, and is now in force.

IN WITNESS WHEREOF, the said Vice-President has hereunto subscribed his/her names and affixed the Corporate Seals of the said ZURICH AMERICAN INSURANCE COMPANY, COLONIAL AMERICAN CASUALTY AND SURETY COMPANY, and FIDELITY AND DEPOSIT COMPANY OF MARYLAND, this 10th day of June, A.D. 2016.

ATTEST:

**ZURICH AMERICAN INSURANCE COMPANY  
COLONIAL AMERICAN CASUALTY AND SURETY COMPANY  
FIDELITY AND DEPOSIT COMPANY OF MARYLAND**



By: *Eric D. Barnes*

*Secretary  
Eric D. Barnes*

State of Maryland  
County of Baltimore

*Gerald F. Haley*

*Vice President  
Gerald F. Haley*

On this 10th day of June, A.D. 2016, before the subscriber, a Notary Public of the State of Maryland, duly commissioned and qualified, **GERALD F. HALEY, Vice President**, and **ERIC D. BARNES, Secretary**, of the Companies, to me personally known to be the individuals and officers described in and who executed the preceding instrument, and acknowledged the execution of same, and being by me duly sworn, depose and saith, that he/she is the said officer of the Company aforesaid, and that the seals affixed to the preceding instrument are the Corporate Seals of said Companies, and that the said Corporate Seals and the signature as such officer were duly affixed and subscribed to the said instrument by the authority and direction of the said Corporations.

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed my Official Seal the day and year first above written.

*Maria D. Adamski*

Maria D. Adamski, Notary Public  
My Commission Expires: July 8, 2019





# Fidelity and Deposit Company of Maryland

1400 American Lane, T1-13, Schaumburg, IL 60196

Bond No. 08950772

## CONTINUATION CERTIFICATE

For Miscellaneous Term Bonds

**Southern Light, LLC, 107 St. Francis St., Suite 1800 Mobile, Al. 36602, as Principal, and the Fidelity and Deposit Company of Maryland, as Surety in a certain Right of Way Bond, No.08950772, with an effective date of the 19 day of August, 2017, in the penalty of One Hundred Thousand Dollars and 10/100s Dollars (\$100,000.00), in favor of Alabama Department of Transportation do hereby continue said bond in force for the further term beginning on the 19 day of August, 2017 and ending on the 19 day of August, 2018.**

PROVIDED, however, that said bond, as continued hereby, shall be subject to all its terms and conditions, except as herein modified, and that the liability of the said Fidelity and Deposit Company of Maryland under said bond and any and all continuations thereof shall in no event exceed in the aggregate the above named penalty, and that this certificate shall not be valid unless signed by said Principal.

Signed, sealed and dated this 16 day of August, 2017.

Witness:

\_\_\_\_\_  
*Neerle J. Vetter*

Southern Light, LLC. (SEAL)  
Principal

By: \_\_\_\_\_ (SEAL)  
Principal

FIDELITY AND DEPOSIT COMPANY OF MARYLAND  
By: *Anna B. Rushing*  
Anna B. Rushing, Attorney-in-Fact



# UTILITY PERMIT CHECKLIST

REV. April 2017

SW Region-Mobile Area

Applicant Uniti Fiber, LLC DBA Southern Light, LLC.

Route SR 16

Milepost 40.81-40.55

- ❖ Utility Companies use this checklist with the following Permit Applications: MB-01, MB-02, and MB-03.
- ❖ ALDOT Manuals are available online at: [www.dot.state.al.us/maweb/permits\\_operations.html](http://www.dot.state.al.us/maweb/permits_operations.html)
- ❖ All submittals & questions should be directed to the District Office unless otherwise noted.
- ❖ Please check all items that apply, if an item is not applicable simply leave the space blank.
- ❖ This list may not be all inclusive; ALDOT reserves the right to request additional information that may be needed for any particular project.
- ❖ Preliminary Discussions should be held with ALDOT for large scale Utility Projects or those that require extensive excavation/trenching or major traffic disruption.
- ❖ As-Built Certification - After completion of work, a signed certification letter will be submitted by the Engineer of Record stating the project has been constructed in accordance with the plans approved by the State and with specifications, supplemental specifications and special provisions applicable at the time of approval.

## District 1

Mr. Frankie L. Smith  
District Administrator  
1701 I-65 West Service Road North  
Mobile, Alabama 36618  
(251) 470-8322

## District 2

Mr. Samuel J. Palmer Jr.  
District Administrator  
47450 Rabun Road  
Bay Minette, Alabama 36507  
(251) 937-2086

## District 3

Mr. Mickey T. Jones  
District Administrator  
10610 Highway 31 South  
Evergreen, Alabama, 36401  
(251) 578-7546

**MB-01:** For use by a Public Utility Company, or more specifically defined as a utility which is regulated by the Public Service Commission (PSC) & can provide a PSC certification if requested.

**MB-02:** This form is used by a private utility to cross the ROW only.

**MB-03:** This form is used by private utility to run along the ROW.

## **Permit Submittal – 4 copies of each**

**Note:** Permit application, Form W-9, and Performance bond should all be in the name of Legal Applicant.  
(Utility owner must be the Applicant)

- ☒ Permit application
- ☒ Permit Checklist
- ☒ Construction Plans (Should be neat and large enough to be legible)
- ☒ ADEM Notice of Registration (If over 1 acre soil disturbance)
- ☒ Performance bond BM-174 (Amount Approved by ALDOT) (\*\* 9.1 Permit Manual)
- ☒ OR Blanket Bond Continuation Letter/Certificate (If applicable)
- ☒ OR Cashier's check and Form W-9 (cashier's check, certified check)
- ☒ PDF of plans (can be emailed if under 22MB)

## **Permit Application (filled by Applicant):** (\*\*1.4.1 Permit Manual)

- ❖ Permit Number & Associated Permits will be assigned by the District office
- ☒ Name of County
- ☒ Mile Post to the nearest 0.01 mile
- ☒ Route Number (SR-xx, US-xx, I-xx)
- ☒ Date of permit submittal

# UTILITY PERMIT CHECKLIST

REV. April 2017

SW Region-Mobile Area

- ☒ Applicant's Legal Name, signature, mailing address and phone number
- ☐ Include Amount of Bond, Bond Number, and Expiration Date
- ☒ Witness' Signature

## **General Permit Plan Requirements:** (specific permit requirements follow)

- ☒ Vicinity Map (State & US routes labeled clearly with name and direction of nearest town)
- ☒ North arrow
- ☒ Posted Speed limits within boundaries of permit
- ☒ Scale or note stating "Not to Scale"
- ☒ Mile Post (nearest 0.01 mile from beginning to end of proposed work)
- ☒ Detailed Legend
- ☒ Route Number (SR-xx, US-xx, I-xx)
- ☒ Denote Centerline (CL), Rights-of-Way (ROW), Edge of Pavement (EOP) and Property Lines
- ☒ Distances: Centerline to ROW line, EOP to ROW line, proposed work to ROW line
- ☒ Distance from the EOP to the center of the side ditches
- ☒ Include details applicable to permit type
- ☒ All applicable ALDOT Standard and Special Drawings must be included in plans
- ☒ Erosion control plan (BMP) is needed if an ADEM permit was not required for project
- ☒ Traffic Control Plan – (utilizing all guidelines of the 2009 MUTCD, site specific)
- ☒ ALDOT General Notes must be included in the plan set (see pages 4-6)
- ☒ Show all existing & proposed utilities, appurtenances, drainage structures & accessories and provide the distance from the ROW line.
  - Existing utilities shall be represented both horizontally and vertically in the submitted plans.
  - When deemed necessary by ALDOT, existing utilities shall be located in the field by means of flagging, staking, painting, and potholing/ probing for inspection by ALDOT Representatives.
  - Vertical location of utility lines are to be accurately reflected in cross section views.
  - It should be determined prior to construction if minimum coverage of utilities will be maintained upon completion of work.
  - Installation of aerial lines does not require location of underground utility lines to be shown.
  - If no existing utilities are present, state "No Existing Utilities"

## **Utility Permit Plan Specific Requirements:** (MB-01, MB-02, MB-03)(\*\*4.2 Utility Manual)

- ☒ Utilities must be placed 25' min horizontally from nearest bridge support (columns, abutments, etc.) and 12' min horizontally from culvert headwalls, wing walls, and foundations.
- ☒ Roadway crossings shall be as near perpendicular as possible to the roadway

## **Underground Utilities**

- ☒ Underground utilities installed across Interstate ROW must be bored not open cut
- ☒ Roadway crossings– Plan View
  - Type to be used (Ex. – Dry Bore)
  - Show milepost for each proposed bore
  - Show encasements if required, any other utilities or drainage structures, etc.
  - Crossing should be as perpendicular to the road as possible
- ☒ Show abandoned utility lines
  - Abandoned lines 4" or greater shall be filled with grout or removed.
- ☒ If a patch is to be made it shall be according to ALDOT's patch detail requirements

# UTILITY PERMIT CHECKLIST

REV. April 2017

SW Region-Mobile Area

☒ Depth of Bury

- 36" minimum beneath the flow line of ditch, 48" minimum under pavement, but additional depth may be required

☒ Boring Method

- Type of Bore with procedure and specifications, boring head, reamer size & fluid type
- Directional bores shall include bore design information signed by the engineer of record. (Include normal operation PSI and GPM, the maximum allowable fluid rate is 350 PSI at 15 GPM, include fluid type)(The max allowable ratio will not be exceeded without prior ALDOT approval)

☒ Bores that require bore pits must state/depict bore pit dimensions (length x width x depth)

- Bore pits must be located outside D/A fence on interstate crossings
- Side roads must be bored & encased if ADT > 500
- plowing or trenching will not be allowed within the road prism area

☒ Profile of proposed Bore Crossings (label R/W, pipe, ground, etc)

☒ Profile if manholes are permitted (Manholes must be flush with existing ground line)

☒ All meters shall be installed off ALDOT rights-of-way

☒ Horizontal distance from bridge footings or drainage structures is 25 foot minimum

☒ Type marking to be placed with underground power lines and/ or non-metallic conduit (Metallic tape, flagging, etc.)

## Encasements for Roadway Crossings

☒ Water and Sewer mains larger than 2" shall be encased, materials may vary, no joints permitted

☒ Gas mains larger than 2" shall be encased in coated steel

☒ Communication lines may use continuous roll HDPE

☒ Minimum depth measurement is measured from the base of pavement to top of encasement

☒ Encasement size, length (minimum-back of ditch to back of ditch), type of material and coating

☒ Encasements beneath Interstates should extend beyond the denied access on both sides

☒ An individual steel or copper service line of 2" or smaller may cross under the roadway without encasement. A copper line must be Type "K", continuous roll and be labeled on the plans to cross under the roadway without encasement.

☒ Encasement variance for a utility line along/across the highway will only be accepted if the API accompanied by a Pisces or Technical Toolbox computer generated report. The report shall adhere to 1102 and the PRCI Report PR-227-9424

☒ Spacer Detail (wooden spacers are not permitted for use in ROW)

## Aerial Utilities:

☒ Profile of Roadway Crossing, showing pole height, vertical clearances over centerline of travel ways, arm length if street light

- Minimum of 18' of clearance over travel ways
- Maintain a vertical and horizontal clearance of 25' over bridges
  - Vertical – from the top of the barrier rail
  - Horizontal – from the neat lines of the structure
- Clearance shown should be height of cable over travel lanes and sag point in line

☒ Guy Wire requirements (refer to 2.18.3 of the utility manual)

☒ Poles shall be placed outside clear zone or and outside denied access fence on Interstate routes.

☒ Proposed poles to be replaced/installed to an existing line shall be "In-Line"

☒ Installation of new poles and/ or pole foundations require the location of existing underground utilities and any drainage structures to be shown in the plans.



# UTILITY PERMIT CHECKLIST

REV. April 2017

SW Region-Mobile Area

## Interstate Crossing: (In addition to utility plan requirements)

- N/A** Installation procedure including Traffic Control Plan
- Law enforcement who have authority on Interstate within the project area will be on hand for traffic control and their location should be included on the diagram.
  - Diagram showing the location of work trucks, if needed inside the ROW.
  - If work trucks are needed inside of the D/A fence, their location should be included on the diagram.
  - If stoppage of traffic is required, the day of week, time of day, and duration of stoppage should be included. Effort should be made to limit the time of lane closure. (Max. time is 10 minutes/stop or block)
    - Traffic control plan must meet most current edition of MUTCD. \*\*Note regarding the rolling stop of traffic on the interstate, if a rolling stop is necessary an estimated time is required. (Maximum of 10 minutes for interstate closures)

## Permit General Notes:

### Notes:

1. Please mark all selectable items that apply with an "X", if item is not applicable write N/A in the space provided.
2. Applicant is used to describe the legal permit applicant or any of their representatives, contractors, or assigns.

1. **N/A** All meters are to be installed off of ALDOT right-of way.
2. **N/A** All manholes, valve boxes, and hand holes should be flush with existing ground.
3. Contact District Administrator 48 hours prior to beginning work on ALDOT right-of-way. The District Administrators are as follows:  
Area- 9  
(91) Mobile County – Frankie L. Smith, (251) 470-8322  
(92) Baldwin County – Samuel J. Palmer Jr., (251) 937-2086  
(93) Escambia and Conecuh Counties – Mickey T. Jones, (251) 578-7540
4. The permit applicant or Engineer of Record shall write a letter requesting to meet with the District Administrator upon completion of the permitted work to evaluate the punch list for completion of project.
5. If applicable, the bond associated with the permit will be good for one full year after the work has been inspected and accepted by the Department.
6. All traffic Control shall be in accordance with Part 6 of the Manual on Uniform Traffic Control Devices (MUTCD) 2009 edition. (If project necessitates lane closure, lane closure must be made part of the permit.)
7. Onsite Representatives & Contact Information John Hixon (251) 510-0080
8. Onsite representatives will have on hand, at all times:  
(1) Approved permit and plans stamped by the Region Engineer  
(2) Traffic Control Plans  
(3) Erosion Control Plans
9. All disturbed areas will be resodded or seeded as directed by the Department of Transportation's District Administrator.
10. All work on the ROW will be in conformance with the latest edition of ALDOT Standard Specifications.
11. **N/A** Electric power and communication facilities will conform to the current applicable *National Electrical Safety Code*.
12. A Best Management Plan shall at minimum return all exposed areas to original or better condition with a good stand of grass and/or sod. Silt fence and any other erosion control items needed shall be used to prevent erosion. (NO HAYBALES ARE ALLOWED IN ROW)
13. All trees over 4" DBH shall not be cut/removed without written permission from ALDOT.
14. **N/A** Absolutely no bore pits shall be allowed to be unfilled and/or uncovered overnight unless protected. (Bore pits have a maximum of 72 hours to be open before filled.)
15. **N/A** Upon completion & any time thereafter, ALDOT retains the right to request an As-Built plan of any permitted work in said department's Rights-of-Way (ROW).

# UTILITY PERMIT CHECKLIST

REV. April 2017

SW Region-Mobile Area

16. WARNING: Do not disturb Survey Markers located on ALDOT Right-of-Way. Any property markers disturbed during construction shall be re-established by an Alabama licensed professional land surveyor at the contractor's expense.
17. The total area to be disturbed during construction of this permit: 0.0001 acre(s). (On & Off ROW combined)
18. N/A Water lines will conform to the currently applicable standards of the *American Water Works Association*.
19. N/A Pressure pipe lines will conform to the currently applicable sections of *American National Standards Institute* (ANSI).
20. ☒ As required by Alabama Act 94-487: Call two working days before excavation 1-800-292-8525, Alabama Line Location Center, Inc.
21. ☒ All existing utility facilities in the proposed work area shall be physically located both horizontally and vertically.
  - a. The utility facilities in the area of work are represented to the best of my knowledge, according to locates provided by 811 and individual due diligence. Engineer Initials JB
  - b. 811 Locate Request # 172351733
22. Any ornamental vegetative landscaping (shrubs, flowers, ornamental grass, etc.) disturbed during construction shall be replaced, transplanted or sodded by the applicant as directed by the Alabama Department of Transportation District Administrator.
23. ☒ All fill material or onsite debris deposited in the right of way shall be removed prior to issuance of final acceptance to begin the one year maintenance period of the permit contract.
24. The applicant shall be responsible for any solid waste (I.E., wood, stumps, etc.) to be disposed of and must be in accordance with applicable regulations of the Alabama Department of Environmental Management (ADEM).
25. Property obstructions which are to remain in place, such as historical structures, trees, drains, water or gas pipes, poles, wall, etc., are not to be disturbed unless noted and approved by SHPO, ALDOT, ADEM, EPA, etc.
26. The applicant is responsible to see that streets are cleaned immediately after concrete or other delivery trucks leave the site. Mud and debris are to be kept off streets, and out of inlets, ditches, etc.
27. Fuel tanks shall not be stored on the right-of-way overnight. Vehicles transporting fuel, chemicals, fertilizers, etc. onto right-of-way shall not be left unattended
28. The applicant or Engineer of Record shall promptly notify ALDOT of any perceived conflicts, ambiguous items or deficiencies in the plans, specifications, general notes or related contract documents.
29. N/A For work within Interstate ROW, all ingress and egress to worksite shall be from applicant's property. No access shall be gained from the Interstate ROW. Equipment and materials shall not be stored on Interstate ROW.
30. ☒ Milepost(s) 2.57 to 2.55 Speed Limit 55 MPH Stopping Site Distance N/A
31. N/A Is drainage/ runoff from this site directed onto state ROW? (circle) YES ☐ or ☒ NO Engineer Initials JB
32. N/A Are utility conflicts present or is utility relocation required for this project to meet specifications? (circle) YES ☐ or ☒ NO Engineer Initials JB
33. ☒ Shall minimum cover over utilities be maintained upon completion of work (circle) YES ☒ or ☐ NO Engineer Initials JB
34. The legal permit applicant is held responsible and liable for all damages, actions, or responsibilities of their appointed contractors and appointees.

## UTILITY PERMIT CHECKLIST

REV. April 2017

SW Region-Mobile Area

COMMENTS: N/A

|  |   |                  |
|--|---|------------------|
| <u>Uniti Fiber, LLC DBA Southern Light, LLC.</u> | <u>107 St. Francis Street</u><br><u>Suite 1800</u><br><u>Mobile, AL 36602</u> | <u>8/24/2017</u> |
| <b>Applicant</b>                                 | <b>Applicant's Mailing Address</b>  | <b>Date</b>      |

|                                 |                                     |
|---------------------------------|-------------------------------------|
| <u>(251) 445-8651</u>           | <u>katherine.subirats@uniti.com</u> |
| <b>Applicant's Phone Number</b> | <b>Applicant's E-mail address</b>   |

Jasmine Bowers  
**Engineer of Record**

|                                |                                  |
|--------------------------------|----------------------------------|
| <u>(251) 767-1970</u>          | <u>jasmine.bowers@uniti.com</u>  |
| <b>Engineer's Phone Number</b> | <b>Engineer's E-mail address</b> |

Uniti Fiber: Katherine Subirats  
107 St. Francis St., Suite 1800  
Mobile, AL 36602  
**Mailing Address for Approved Permit**



SEPTEMBER 15, 2017

APPROVED: \_\_\_\_\_

DATE: \_\_\_\_\_

JOB # AB07201620

UNDERGROUND: EST - 319' / ACT - \_\_\_\_\_

AERIAL: EST - 1,453' / ACT - \_\_\_\_\_

TOTAL FIBER: EST. - 1,772' / ACT. - \_\_\_\_\_



PROJECT MANAGER: DONALD COOPER - (251) 209-4155

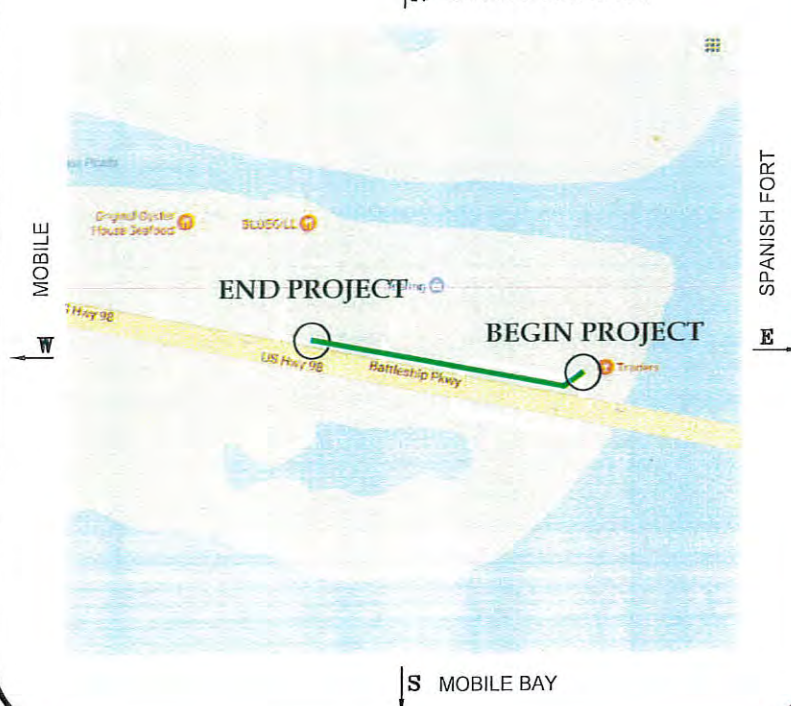
ENGINEER: JASMINE BOWERS - (251) 767-1970

PROJECT CONTACT: KATHERINE SUBIRATS - (251) 445-8651  
AVEIN THOMPSON - (251) 445-8650

[illegible]

AERIAL FIBER  
UNDERGROUND FIBER  
EXISTING

N  
CHACALOOCHEE BAY



A map of North Carolina showing its 100 counties. The counties are labeled with their names. A red circle with a white arrow points to the county of Wayne, which is located in the central part of the state, south of the Charlotte area.

CPE LOCATION: <https://na60.salesforce.com/a08300000008ecPb>



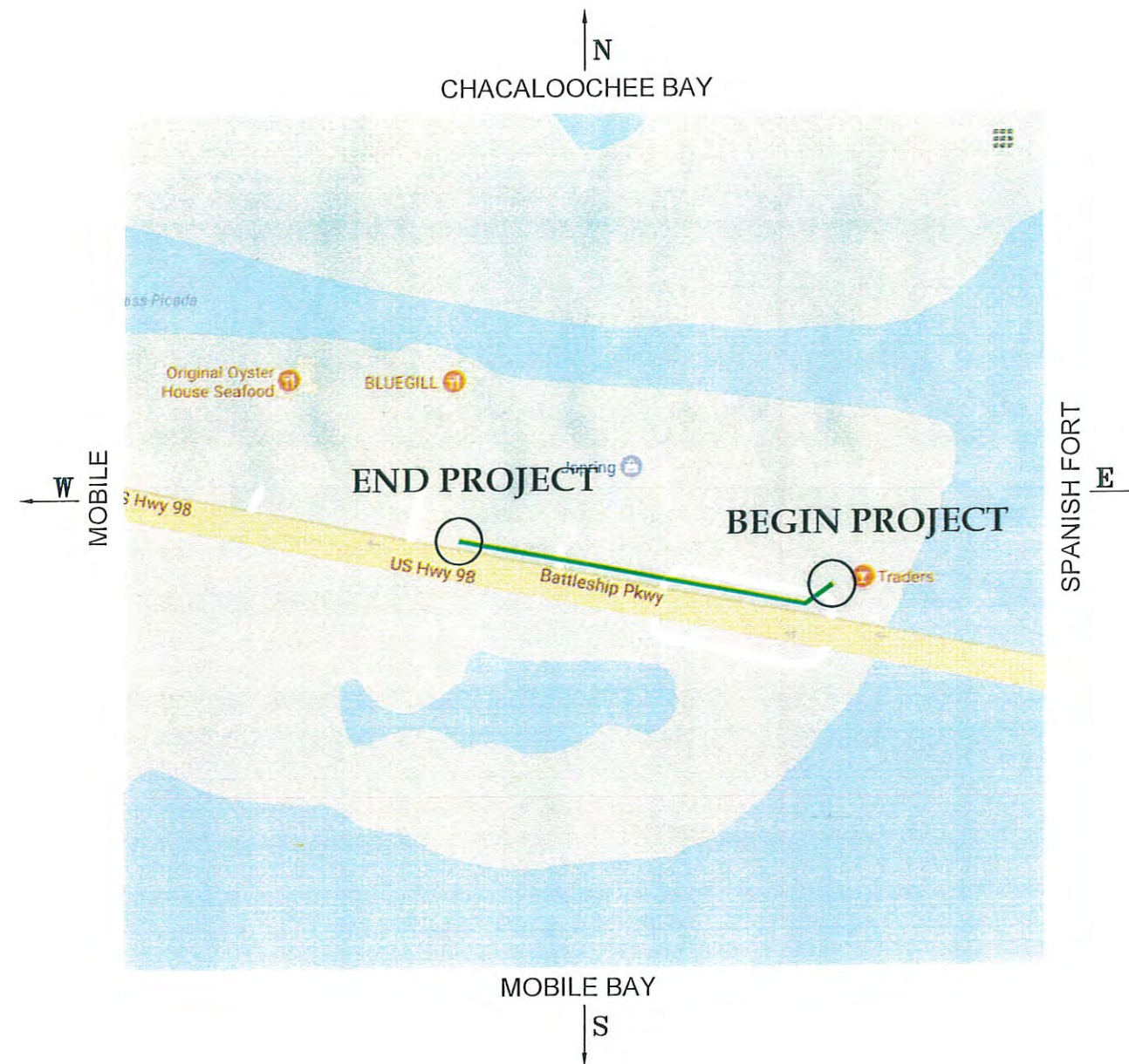
# OYSTER HOUSE CAUSEWAY

## #3733 BATTLESHIP PARKWAY - SPANISH FORT, AL

### PLANS FOR PROPOSED PROJECT:

FIBER OPTIC INSTALLATION  
MM 40.81 TO MM 40.55

SEPTEMBER 15, 2017



VICINITY MAP



# GENERAL CONSTRUCTION NOTES

## STATE OF ALABAMA - SOUTHWEST REGION

### FIBER OPTIC INSTALLATION



#### NOTES:

1. Please mark all selective items that apply with an "X", if item is not applicable write N/A in the space provided.
2. Applicant is used to describe the legal permit applicant or any of their representatives, contractors, or assigns.

1. All meters are to be installed off of ALDOT right-of-way.

2. All manholes, valve boxes, and hand holes should be flush with existing ground.

3. Contact District Administrator 48 hours prior to beginning work on ALDOT right-of-way. The District Administrators are as follows:

#### Area - 9

- |  |  |
|--|--|
| (92) Mobile County - Frankie L. Smith, (251) 470-8322                | (82) Danny Etheridge, (334) 627-3458   |
| (92) Baldwin County - Samuel J. Palmer Jr., (251) 937-2086           | (83) Johnny Stallworth, (334) 682-4718 |
| (93) Escambia and Conecuh Counties - Mickey T. Jones, (251) 578-7540 | (84) Dorrell Owens, (251) 275-3676     |

4. The permit applicant or Engineer of Record shall write a letter requesting to meet with District Administrator upon completion of permitted work to evaluate the punch list for completion of project.

5. If applicable, the bond associated with the permit will be good for one full year after the work has been inspected and accepted by the Department.

6. All Traffic Control shall be in accordance with Part 6 of the Manual on Uniform Traffic Control Devices (MUTCD) 2009 edition. (If project necessitates lane closure, lane closure must be made part of the permit.)

7. Onsite Representative - John Hixon (251) 510-0080 John Hartman (251) 753-1320

Onsite representatives will have on hand, at all times:

- (1) Approved permit and plans stamped by the Division Engineer
- (2) Traffic Control Plans
- (3) Erosion Control Plans

8. All disturbed areas will be resodded or seeded as directed by the Department of Transportation's District Administrator.

9. All work on the ROW will be in conformance with the latest edition of ALDOT Standard Specifications.

10. Electric power and communication facilities will conform to the current applicable National Electrical Safety Code.

11. A Best Management Plan shall at minimum return all exposed areas to original or better condition with a good stand of grass and/or sod. Silt fence and any other erosion control items needed shall be used to prevent erosion. (NO HAYBALES ARE ALLOWED IN ROW)

12. All trees over 4" DBH shall not be cut/removed without written permission from ALDOT.

13. Absolutely no bore pits shall be allowed to be unfilled and/or uncovered overnight unless protected. (Bore pits have a maximum of 72 hours to be open before filled)

14. Upon completion & any time thereafter, ALDOT retains the right to request an As-Built profile on any buried utilities in said department's ROW.

15. WARNING: Do not disturb Survey Markers located on ALDOT Right-of-Way. Any property markers disturbed during construction shall be re-established by an Alabama licensed professional land surveyor at the contractor's expense.

16. The total area to be disturbed during construction of this permit: 0.0001 acre(s). (On & Off ROW combined)

17. Water lines will conform to the currently applicable standards of the American Water Works Association

18. Pressure pipe lines will conform to the currently applicable sections of American National Standards Institute (ANSI)

19. As required by Alabama Act 94-487: Call two working days before excavation 1-800-292-8525, Alabama Line Location Center, Inc.

20. All existing utility facilities in the proposed work area shall be physically located both horizontally and vertically. a. The utility facilities in the work area are represented to the best of my knowledge, according to locates provided by 811 and individual due diligence. Engineer Initials JB b. 811 Locate Request # N/A

21. Any ornamental vegetative landscaping (shrubs, flowers, ornamental grass, etc.) disturbed during construction and shall be replaced, transplanted or re-sodded as directed by the Alabama Department of Transportation District Administrator.

22. All fill material or onsite debris deposited in the right-of-way shall be removed prior to issuance of certificate of occupancy.

23. The applicant shall be responsible for any solid waste (i.e., wood, stumps, etc.) to be disposed of and must be in accordance with applicable regulations of the Alabama Department of Environmental Management (ADEM).

24. Property obstructions which are to remain in place, such as historical structures, trees, drains, water or gas pipes, poles, wall, etc., are not to be disturbed unless noted and approved by SHPO, ALDOT, ADEM, EPA, etc.

25. The applicant is responsible to see that streets are cleaned immediately after concrete or other delivery trucks leave the site. Mud and debris are to be kept off streets and out of inlets, ditches, etc.

26. Fuel tanks shall not be stored on the right-of-way overnight. Vehicles transporting fuel, chemicals, fertilizers, etc. onto right-of-way shall not be left unattended.

27. The applicant or Engineer of Record shall promptly notify the engineer and ALDOT of any perceived conflicts, ambiguous items or deficiencies in the plans, specifications, general notes or related contract documents.

28. For work within Interstate ROW, all ingress and egress to worksite shall be from Applicant's property. No access shall be gained from the Interstate ROW. Equipment and materials shall not be stored on Interstate ROW.

29. Milepost(s) 7.70-7.78 Speed Limit 45 Stopping Site Distance \_\_\_\_\_

30. Is drainage from this site will not be directed onto state R/W (circle) YES or NO Engineer Initials JB

31. Are utility conflicts or is utility relocation required for project (circle) YES or NO Engineer Initials JB

32. Shall minimum cover over utilities be maintained upon completion of work (circle) YES or NO Engineer Initials JB

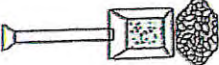


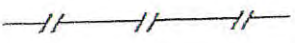





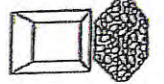

33. The legal permit applicant is held responsible/liable for all damages, actions, or responsibilities of their appointed contractors and appointees.

#### CONTACT LIST

|                  |  |
|------------------|--|
| PROJECT MANAGER: | JOHN HIXON - (251) 510-0080  |
| PROJECT CONTACT: | AVEIN THOMPSON - (251) 445-8650<br>KATHERINE SUBIRATS - (251) 445-8651 |



| REFERENCE<br>PROJECT NO | FISCAL<br>YEAR | SHEET<br>NO |
|-------------------------|----------------|-------------|
|                         |                |             |


| BEST MANAGEMENT PRACTICE (BMP)  | SPECIAL<br>DRAWING<br>NUMBER                   | PLAN SYMBOL   | MATERIALS<br>REQUIREMENT<br>REFERENCES                    | CONSTRUCTION<br>REQUIREMENT<br>REFERENCES                   | USAGE GUIDELINES   |
|---|--|---|---|---|--|
| TEMPORARY SLOPE DRAIN PIPE WITH ROCK<br>DITCH CHECK AND SUMP EXCAVATION | ESC-200 (SHT. 2 OF 4)                          |    | 665.02,<br>801, 810, 814<br>ALDOT LIST 11-3               | 665.03,<br>665.04,<br>665.05                                | A TEMPORARY SLOPE DRAIN WITH RIPRAP DITCH CHECK AND SUMP EXCAVATION IS CONSTRUCTED WITH A FLEXIBLE PIPE OR CONDUIT EXTENDING FROM THE TOP OF A CUT OR FILL SLOPE INTO AN EXCAVATED SEDIMENT TRAPPING SUMP WITH A ROCK DITCH CHECK DOWN SLOPE OF THE SUMP. THE PURPOSE OF THE TEMPORARY SLOPE DRAIN IS TO DIVERT STORMWATER RUNOFF DOWN THE FACE OF THE SLOPE WITHOUT CAUSING EROSION ON THE SLOPE. |
| TEMPORARY EARTH BERM  | ESC-200 (SHT. 2 OF 4)                          |    | 665.02  | 665.03,<br>665.04,<br>665.05                                | A TEMPORARY EARTH BERM CONSISTS OF A CHANNEL CONSTRUCTED ACROSS A SLOPE AND BACKED ON THE LOWER SIDE BY AN EARTHEN RIDGE. THE TEMPORARY EARTH BERM IS USED TO REDUCE SLOPE LENGTH AND DIVERT RUNOFF TO STABILIZED OUTLETS SUCH AS A TEMPORARY SLOPE DRAIN PIPE.  |
| BRUSH BARRIER   | ESC-200 (SHT. 3 OF 4)                          |    | 665.02  | 665.03,<br>665.04,<br>665.05                                | BRUSH BARRIERS ARE TEMPORARY SEDIMENT TRAPPING STRUCTURES CONSTRUCTED AT THE PERIMETER OF DISTURBED AREAS THAT ARE MADE FROM RESIDUE OF LAND CLEARING AND CRUDDING. BRUSH BARRIERS CONTROL OFF SITE TRANSPORT OF SEDIMENTS UNTIL STABILIZATION OF DISTURBED AREAS CAN BE ACHIEVED.   |
| SILT FENCE SEDIMENT BARRIER   | ESC-200 (SHT. 3 OF 4)<br>ESC-200 (SHT. 4 OF 4) |    | 665.02,<br>ARSHD M280<br>ALDOT LIST 11-3                  | 665.03,<br>665.04,<br>665.05                                | A SILT FENCE SEDIMENT BARRIER CONSISTS OF AN ENTRENCHED FILTER FABRIC STRETCHED ACROSS A WIRE BACKING THAT IS SUPPORTED BY POSTS. THE PURPOSE OF SILT FENCE SEDIMENT BARRIERS IS TO INTERCEPT AND TRAP SEDIMENT AS WELL AS DECREASE RUNOFF VELOCITIES OF SHEET FLOW AND MODERATE CHANNEL FLOWS.  |
| DITCH CHECK STRUCTURES  | ESC-200 (SHT. 1 OF 8)                          | SEE SYMBOLS BELOW FOR EACH CHECK STRUCTURE  | 665.02  | 665.03,<br>665.04,<br>665.05                                | DITCH CHECKS ARE INSTALLED TO CONTROL RUNOFF VELOCITY AND THUS REDUCE EROSION AND PROVIDE FOR TRAPPING OF SEDIMENTS. SELECTION OF THE APPROPRIATE DITCH CHECK IS A FUNCTION OF DRAINAGE AREA, DITCH GRADIENT AND SOIL TYPE.  |
| HAY BALE DITCH CHECK  | ESC-200 (SHT. 2 OF 8)                          |    | 665.02  | 665.03,<br>665.04,<br>665.05                                | HAY BALES ARE USED TO INTERCEPT LOW VOLUME FLOWS IN LOW TO MODERATE GRADIENT DITCHES.  |
| SAND BAG DITCH CHECK  | ESC-300 (SHT. 3 OF 8)                          |  | 665.02,<br>801  | 665.03,<br>665.04,<br>665.05                                | SAND BAG DITCH CHECKS ARE USED FOR VELOCITY REDUCTION AND MINIMAL SEDIMENT TRAPPING IN CONCRETE PAVED DITCHES OR IN DITCHES THAT HAVE ROCKY BOTTOMS. SAND BAGS MAY ALSO BE USED AS A SEDIMENT BARRIER ON HARD SURFACES.  |
| WATTLE DITCH CHECK  | ESC-300 (SHT. 4 OF 8)                          |  | 665.02,<br>ALDOT LIST 11-24                               | 665.03,<br>665.04,<br>665.05,<br>MANUFACTURER<br>LITERATURE | WATTLE DITCH CHECKS ARE APPROPRIATE FOR VELOCITY REDUCTION AND CONTROL OF SEDIMENT TRANSPORT UNDER LOW TO MEDIUM FLOW CONDITIONS.  |
| SILT DIKE DITCH CHECK   | ESC-300 (SHT. 5 OF 8)                          |  | 665.02,<br>MANUFACTURER<br>LITERATURE                     | 665.03,<br>665.04,<br>665.05,<br>MANUFACTURER<br>LITERATURE | SILT DIKE DITCH CHECKS CAN BE USED IN DITCHES WITH CONCENTRATED FLOWS WITHIN THE CLEAR ZONE WHERE RIPRAP CAN NOT BE USED.  |
| ROCK DITCH CHECK  | ESC-300 (SHT. 6 OF 8)                          |  | 665.02,<br>801, 810, 814,<br>PLAN NOTE<br>ALDOT LIST 11-3 | 665.03,<br>665.04,<br>665.05                                | ROCK DITCH CHECKS ARE USED PRIMARILY IN HIGH VELOCITY AND LARGE VOLUME DITCH FLOW CONDITIONS TO REDUCE EROSION AND TRAP MINIMAL VOLUMES OF SEDIMENT. AGGREGATE DITCH CHECKS CAN BE USED ONLY IN LOW VELOCITY FLOWS AND SERVE AS EFFECTIVE SEDIMENT TRAPS. SIZES OF ROCK WILL BE DESIGNATED ON THE PLANS.   |
| ROCK DITCH CHECK<br>WITH SUMP EXCAVATION                                | ESC-300 (SHT. 7 OF 8)                          |  | 665.02,<br>801, 810, 814,<br>PLAN NOTE<br>ALDOT LIST 11-3 | 665.03,<br>665.04,<br>665.05                                | ROCK DITCH CHECK WITH SUMP EXCAVATION CAN BE PLACED IN DITCHES FOR ON-SITE SEDIMENT TRAPPING.  |
| SILT FENCE DITCH CHECK  | ESC-300 (SHT. 8 OF 8)                          |  | 665.02,<br>ARSHD M280<br>ALDOT LIST 11-3                  | 665.03,<br>665.04,<br>665.05                                | SILT FENCE DITCH CHECKS ARE USED TO INTERCEPT LOW VOLUME FLOWS IN LOW TO MODERATE GRADIENT DITCHES.  |

NOT TO SCALE

--SPECIFICATIONS--  
CURRENT ALABAMA DEPARTMENT OF TRANSPORTATION

THIS DRAWING, FIGURES, NOTES, PREPARED FOR USE BY THE ALABAMA DEPARTMENT OF TRANSPORTATION AND IS NOT TO BE COPIED, REPRODUCED, ALTERED, OR USED BY ANYONE, IN ANY MANNER, WITHOUT THE EXPRESS WRITTEN CONSENT OF THE ALABAMA DEPARTMENT OF TRANSPORTATION. ANYONE USING THIS DRAWING WITHOUT THE EXPRESS WRITTEN CONSENT OF THE ALABAMA DEPARTMENT OF TRANSPORTATION REPRESENTATIVE, AUTHORIZED TO APPROVE THIS USE, SHALL BE SUBJECT TO THE FULL EXTENT OF THE LAW.

REVISED  
1. Updated Chart on 03-11-11 by J.J.  
2. Revises and Updates Chart on 12-20-11 by J.J.

 **ALABAMA DEPARTMENT  
OF TRANSPORTATION**  
400 COLLEGE AVENUE  
MONTGOMERY, AL 36103-0000

DESIGN BUREAU SPECIAL DRAWING  
**BEST MANAGEMENT PRACTICE  
REFERENCE MATRIX**


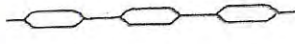


SHEET NO  
**1160**

SPECIAL DRAWING NO  
**ESC-100 (SHEET 1 OF 2)**

Drawn by: L.V.S.  
Check by: DATE 02/11/2005



| REFERENCE<br>PROJECT NO. | FISCAL<br>YEAR | SHEET<br>NO. |
|--------------------------|----------------|--------------|
|                          |                |              |

| BEST MANAGEMENT PRACTICE (BMP)    | SPECIAL<br>DRAWING<br>NUMBER | PLAN SYMBOL   | MATERIALS<br>REQUIREMENT<br>REFERENCES                                | CONSTRUCTION<br>REQUIREMENT<br>REFERENCES                   | USAGE GUIDELINES  |
|-----------------------------------|------------------------------|---|---|---|---|
| INLET PROTECTION                  | ESC-100 ISHT 1 OF 41         |    | 665.02  | 665.03,<br>665.04,<br>665.05                                | CONFIGURATIONS MAY BE ADJUSTED WITH APPROVAL OF THE ENGINEER FOR TRAVELWAY SAFETY, WATER FLOW, SOIL OR INSTALLATION CHALLENGES.   |
| AGGREGATE INLET PROTECTION        | ESC-100 ISHT 2 OF 41         | ***   | 665.02,<br>801  | 665.03,<br>665.04,<br>665.05                                | THE ELEVATION OF THE TOP OF THE REQUIRED STONE BERM SHALL BE A MINIMUM OF 1.5 FEET ABOVE THE ELEVATION OF THE INLET WORKING POINT AND A MINIMUM OF 6 INCHES BELOW THE ELEVATION OF THE OUTSIDE EDGE OF THE INSIDE SHOULDER.   |
| WATTLE INLET PROTECTION           | ESC-100 ISHT 3 OF 41         | ***   | 665.02,<br>ALDOT LIST 11-24   | 665.03,<br>665.04,<br>665.05                                | WATTLE INLET PROTECTION PROVIDES SEDIMENT TRAPPING BY FLOWING STORMWATER TO A DEPTH EQUAL TO OR LESS THAN THE WATTLE DIAMETER.  |
| SAND BAG INLET PROTECTION         | ESC-100 ISHT 4 OF 41         | ***   | 665.02,<br>801  | 665.03,<br>665.04,<br>665.05                                | SAND BAG INLET PROTECTION PROVIDES SEDIMENT TRAPPING BY FLOWING STORMWATER TO A DEPTH EQUAL TO OR LESS THAN THE STACKED HEIGHT.   |
| FLOATING BASH BODY                | ESC-501                      |    | 665.02,<br>MANUFACTURER<br>LITERATURE                                 | 665.03,<br>665.04,<br>665.05,<br>MANUFACTURER<br>LITERATURE | A FLOATING BASH BODY IS A FLOATING IMPERMEABLE TEXTILE BARRIER WHICH MINIMIZES SEDIMENT TRANSPORT WITHIN A WATERBODY AND MAY BE USED FOR UPLAND SEDIMENT CONTROL REDUNDANCY.  |
| STABILIZED CONSTRUCTION ENTRANCE  | ESC-502                      |    | 665.02,<br>801  | 665.03,<br>665.04,<br>665.05                                | STABILIZED CONSTRUCTION ENTRANCES ARE INSTALLED AT POINTS OF VEHICULAR INGRESS AND EGRESS. THE STABILIZED CONSTRUCTION ENTRANCES REDUCE THE AMOUNT OF SEDIMENT TRANSPORTED AND PAVED PUBLIC TRAVEL WAYS BY CONSTRUCTION EQUIPMENT AND OTHER MOTOR VEHICLES.   |
| TEMPORARY DEWATERING STRUCTURE    | ESC-503                      | ***   | 107.13,<br>CONTRACTOR<br>DISCRETION                                   | 107.13,<br>524.03,<br>MANUFACTURER<br>LITERATURE            | TEMPORARY DEWATERING STRUCTURES ARE USED TO CAPTURE SEDIMENT THAT MAY BE PRESENT IN DEWATERING DISCHARGES AND TO REDUCE DISCHARGE VELOCITY SUFFICIENTLY TO PROTECT DOWN SLOPE AREAS FROM EROSION. FILTER BAGS ARE USED WHEN DISCHARGING POTENTIALLY SEDIMENT LOADED WATER TO SENSITIVE WATER BODIES OR IN URBAN AREAS.  |
| TEMPORARY CULVERT STREAM CROSSING | ESC-504                      | ***   | 107.13,<br>CONTRACTOR<br>DISCRETION                                   | 107.13,<br>107.21   | A TEMPORARY STREAM CROSSING PROVIDES A MEANS FOR VEHICLES AND HEAVY EQUIPMENT TO SAFELY CROSS A WATERCOURSE WHILE MINIMIZING DAMAGE TO STREAMS AND WETLANDS. AN EXAMPLE IS PROVIDED WHEN IT MAY BE MODIFIED OR ADOPTED BY THE CONTRACTOR.   |
| TEMPORARY DIVERSIONS              | ESC-505<br>ESC-506           | ***   | 107.13,<br>CONTRACTOR<br>DISCRETION                                   | 107.13,<br>107.21,<br>524.03                                | TEMPORARY DIVERSIONS ARE USED TO DIVERT STREAM FLOW AROUND CONSTRUCTION WORK UNTIL PERMANENT DRAINAGE STRUCTURES ARE COMPLETED.   |
| SEDIMENTATION BASIN               | ESC-507                      | ***   | 665.02,<br>665.04,<br>665.05,<br>ALDOT LIST 11-11<br>ALDOT LIST 11-24 | 665.03,<br>665.04,<br>665.05,<br>MANUFACTURER<br>LITERATURE | SEDIMENTATION BASINS ARE USED TO REDUCE TURBIDITY OF CONSTRUCTION STORMWATER RUNOFF DURING GRADING.   |
| FLOCCULANT                        | ESC-508                      | ***   | 665.02,<br>672.02,<br>ALDOT LIST 11-24                                | 665.03,<br>672.02,<br>MANUFACTURER<br>LITERATURE            | FLOCCULANT IS USED TO REDUCE TURBIDITY OF CONSTRUCTION STORMWATER RUNOFF DURING GRADING.  |
| EROSION CONTROL PRODUCTS          | ESC-509                      |  | 659.02,<br>660.11,<br>ALDOT LIST 11-11                                | 659.03,<br>659.04,<br>659.05                                | EROSION CONTROL PRODUCTS ARE USED TO PROTECT SLOPES AND CHANNELS. EROSION CONTROL PRODUCTS ARE USED TO CREATE CONDITIONS THAT ASSIST THE ESTABLISHMENT OF VEGETATION LOCATIONS SHOWN ON PLANS SHOULD BE BASED ON GRADIENT, SOIL LONGEVITY AND HYDROLOGY. EROSION CONTROL PRODUCTS WILL GENERALLY BE REQUIRED ON 2:1 OR STEEPER SLOPE LENGTHS MORE THAN 15 FEET. |

NOTE:  
1. ONLY ONE INLET PROTECTION SYMBOL IS SHOWN ON THE PLANS. CONSTRUCTION PHASING AND SITE CONDITIONS WILL DICTATE WHICH TYPE OF INLET PROTECTION SHOULD BE INSTALLED.

NOTE:  
1. TEMPORARY DEWATERING STRUCTURE, TEMPORARY STREAM CROSSING, AND TEMPORARY DIVERSIONS USE AND LOCATION WILL BE AT CONTRACTOR AND TEMPORARY DIVERSIONS MADE A PART OF THE CONTRACT.

NOTE:  
1. SEDIMENTATION BASINS ARE DRAWN TO SCALE ON THE PLANS.

NOTE:  
1. FLOCCULANT TO BE APPLIED AT THE DIRECTION OF THE ENGINEER.

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CURRENT ALABAMA DEPARTMENT OF TRANSPORTATION

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CHECKED BY: [Signature]  
DATE: [Date]

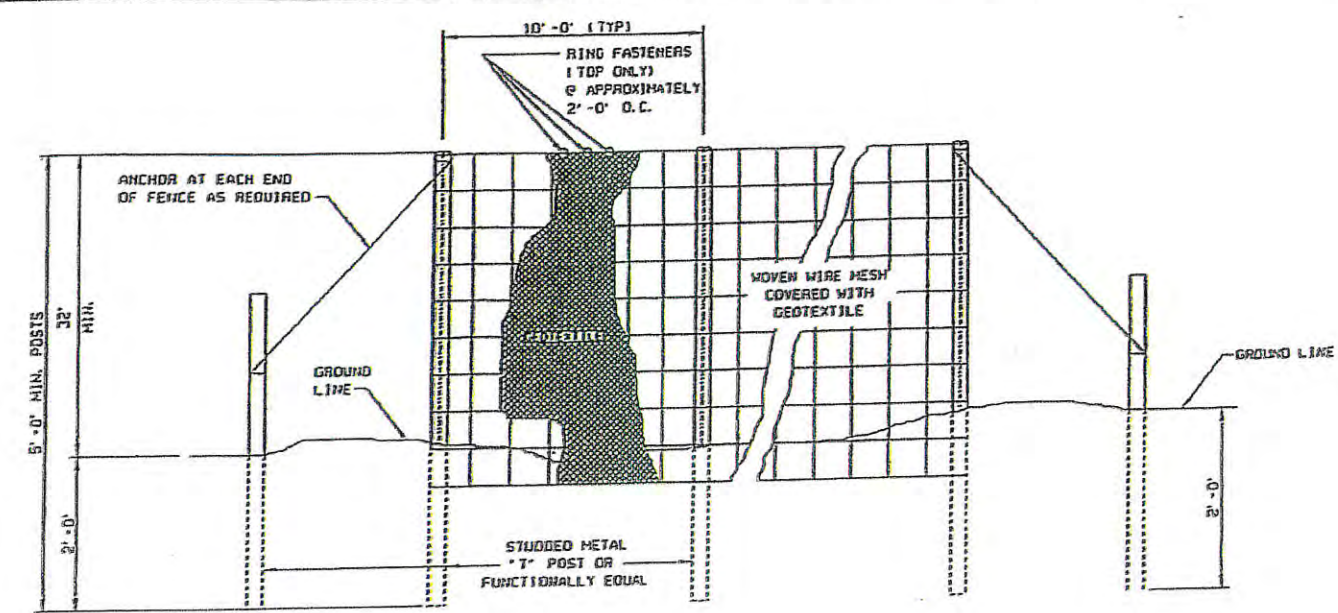
ALABAMA DEPARTMENT OF TRANSPORTATION  
DESIGN BUREAU SPECIAL DRAWING  
BEST MANAGEMENT PRACTICE  
REFERENCE MATRIX

SCALE: [Scale]  
SHEET NO.: [Sheet No.]  
TOTAL SHEETS: [Total Sheets]

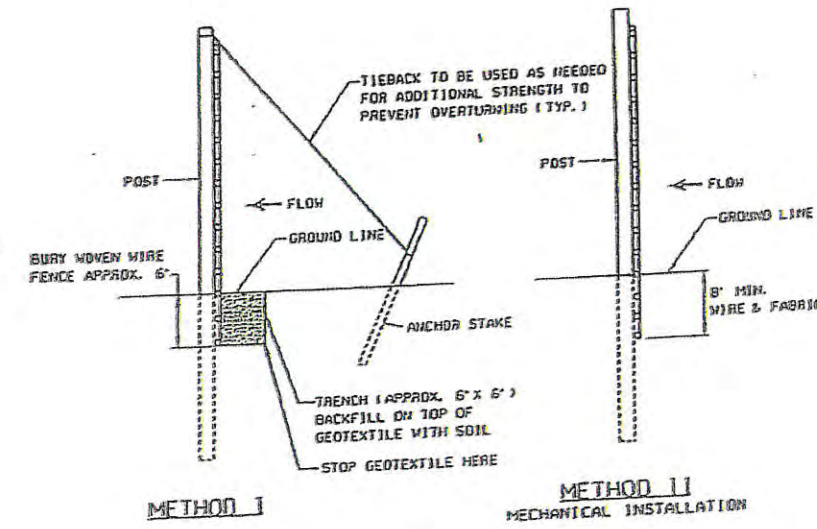
NOT TO SCALE



| REFERENCE<br>PROJECT NO. | FISCAL<br>YEAR | SHEET<br>NO. |
|--------------------------|----------------|--------------|
|                          |                |              |



ELEVATION VIEW

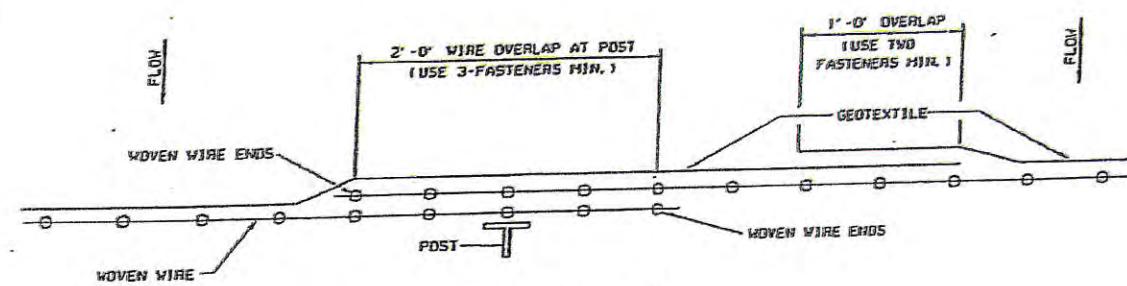


METHOD I

METHOD II  
MECHANICAL INSTALLATION

SIDE VIEW

- NOTES:
1. METHOD II FENCE INSTALLATION ALSO TO INCLUDE ANCHORS AND TIEBACKS AS REQUIRED.
  2. SILT FENCE SHALL BE USED IN AREAS WHERE FLOW IS LOW TO MODERATE OR AS DIRECTED BY THE ENGINEER.
  3. SILT FENCES ARE TEMPORARY SEDIMENT CONTROL ITEMS THAT SHALL BE ERECTED DOWN GRADE OF ERODIBLE AREAS SUCH AS NEWLY GRADED FILL SLOPES AND ADJACENT TO STREAMS AND CHANNELS.
  4. SILT FENCE SHOULD BE PLACED WELL INSIDE RIGHT-OF-WAY AND ALONG EDGE OF CLEARING LIMITS. THIS WILL ALLOW ROOM FOR ADDITIONAL BEST MANAGEMENT PRACTICES SUCH AS VEGETATED BUFFERS.
  5. WHEREVER POSSIBLE SILT FENCES SHALL BE CONSTRUCTED ACROSS A LEVEL AREA IN THE SHAPE OF A SHIELD. THIS AIDS IN PONDING OF RUNOFF AND FACILITATES SEDIMENTATION.
  6. THE CONTRACTOR MAY ELECT TO USE EITHER INSTALLATION METHOD I OR METHOD II.
  7. METHOD II INSTALLATION SHALL BE ACCOMPLISHED USING AN IMPLEMENT THAT IS MANUFACTURED FOR THE APPLICATION AND PROVIDES A CONFIGURATION MEETING THE REQUIREMENTS OF THE DETAIL.
  8. SEE ALDOT LIST 11-3 FOR APPROVED SILT FENCE GEOTEXTILES.



PLAN VIEW  
REQUIRED LAPPING

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DESIGN BY: ALABAMA DEPARTMENT OF TRANSPORTATION  
DESIGN DIVISION SPECIAL DIVISION  
DETAILS OF SILT FENCE INSTALLATION

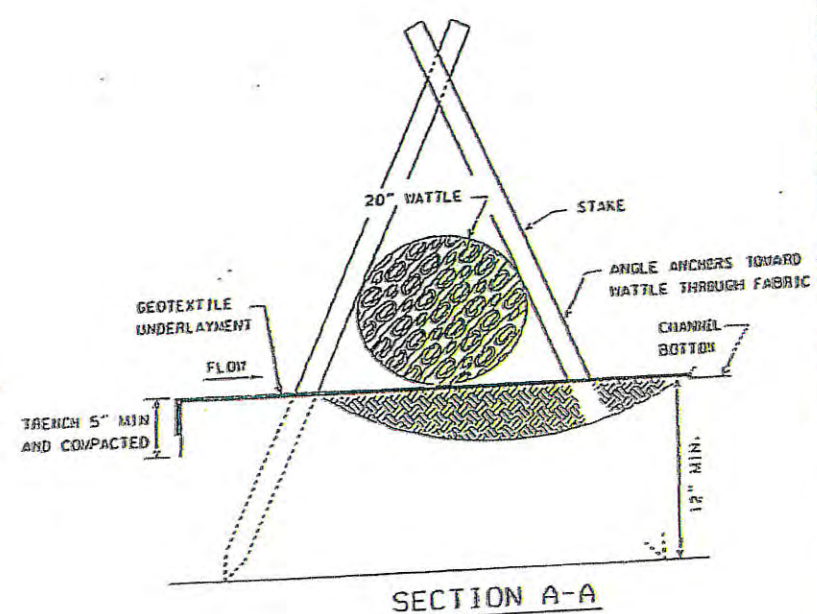
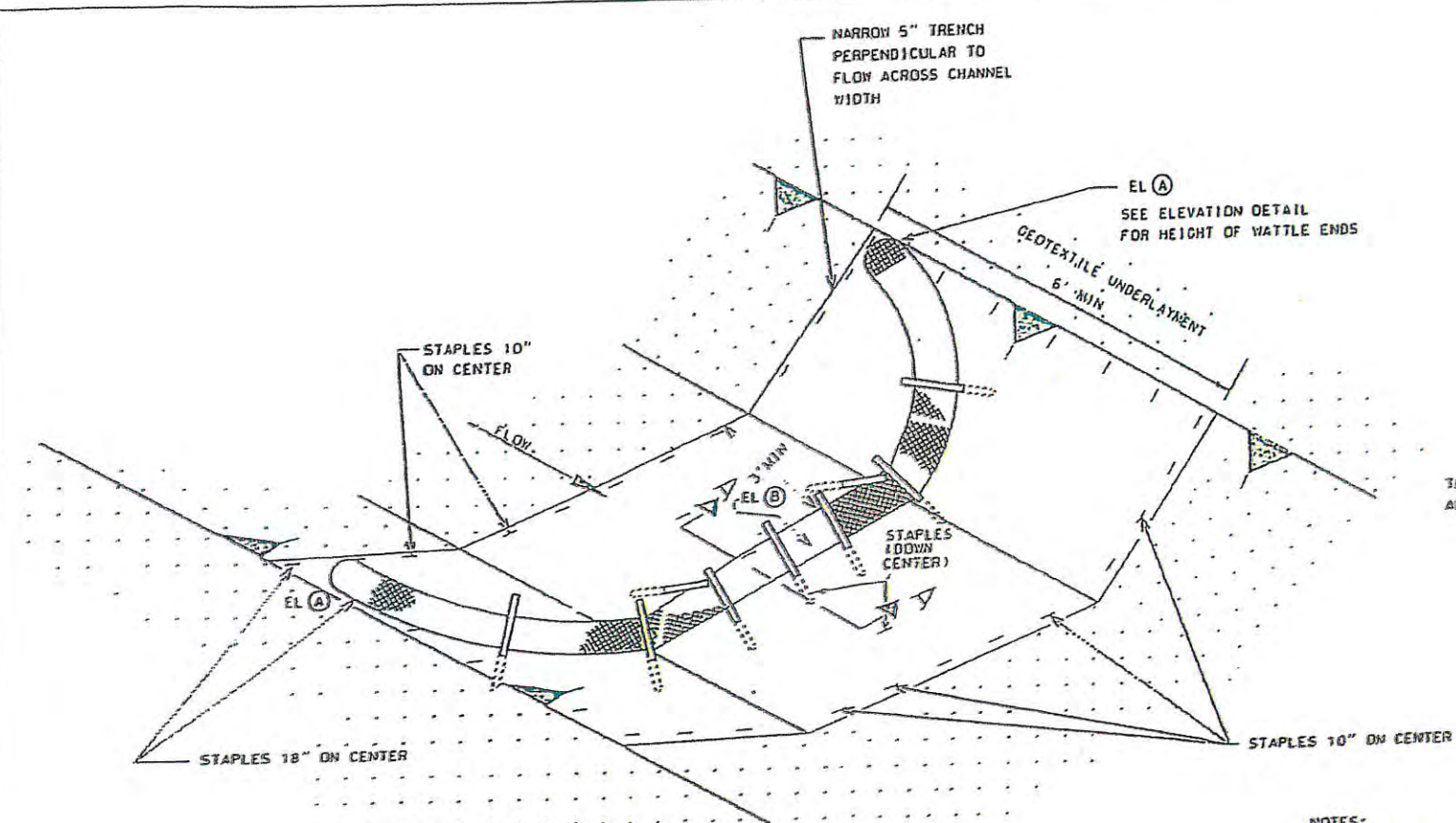
DATE: 2006

ESC-200 (SHEET 4 OF 4) 1161-C

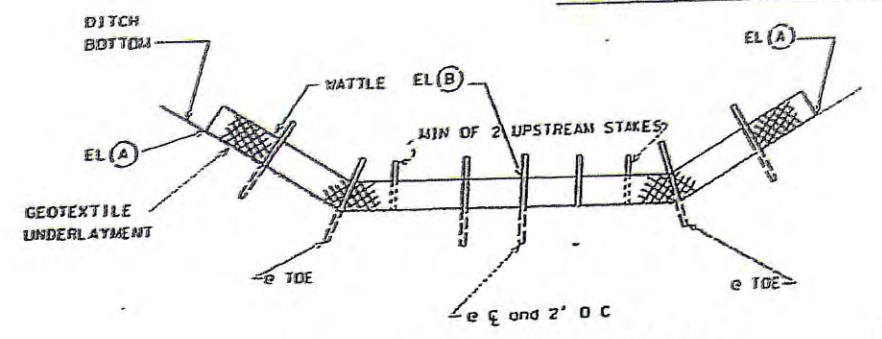
NOT TO SCALE



| REFERENCE<br>PROJECT NO. | FISCAL<br>YEAR | SHEET<br>NO. |
|--------------------------|----------------|--------------|
|                          |                |              |



DETAIL (DITCH CHECK)



ELEVATION DETAIL

NOTE: END POINTS (A) MUST BE HIGHER THAN FLOWLINE POINT (B)

- NOTES:
1. MINIMUM RECOMMENDED PLACEMENT INTERVAL BETWEEN WATTLE DITCH CHECK IS 100 FEET UNLESS SHOWN OTHERWISE ON THE PLANS OR APPROVED BY THE ENGINEER. SEE SPACING GUIDANCE ON SHT 1 OF 8.
  2. ANCHORING STAKES SHALL BE SIZED, SPACED, DRIVEN, AND BE OF A MATERIAL THAT EFFECTIVELY SECURES THE CHECK. STAKE SPACING SHALL BE A MAXIMUM OF TWO FEET.
  3. WATTLES SHOULD NOT BE USED IN HARD BOTTOM CHANNELS.
  4. STAPLES SPACED 18 INCHES APART, ALONG THE CHANNEL EDGES AND DOWN THE CENTER OF THE CHANNEL. STAPLES SPACED 10 INCHES APART, ACROSS THE UPSTREAM AND DOWNSTREAM EDGES.

WATTLE DITCH CHECK SELECTION GUIDELINES

WATTLE DITCH CHECKS ARE APPROPRIATE FOR VELOCITY REDUCTION AND CONTROL OF SEDIMENT TRANSPORT UNDER LOW TO MEDIUM FLOW CONDITIONS NOT EXCEEDING 1.0 CU FT/SEC.

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DATE: [Date]

ALABAMA DEPARTMENT OF TRANSPORTATION  
DESIGN DIVISION SPECIAL PROJECTS  
DETAILS OF EROSION CONTROL  
WATTLE DITCH CHECK

ESC-300 (SHEET 4 OF 8) 1162-C

NOT TO SCALE



## UNDERGROUND

|  |   |
|--|---|
|  | EXISTING HANDHOLE   |
|  | EXISTING MANHOLE  |
|  | PLACE HANDHOLE  |
|  | PLACE MANHOLE   |
|  | 10) PL. H.H.<br>113) 48"x36"x18"<br>150' SLACK                |
|  | EXISTING UTILITY HANDHOLE                                     |
|  | TRAFFIC SIGNAL  |
|  | ELECTRIC VAULT  |
|  | TRANSFORMER   |
|  | FIRE HYDRANT  |
|  | STORM SEWER M.H.  |
|  | CUT AND RESTORE CONCRETE / ASPHALT<br>WHEN PLACING A HANDHOLE |
|  | STORM DRAIN   |
|  | TIC MARK<br>TO INDICATE WORK<br>METHOD CHANGE                 |
|  | PUMPING STATION   |
|  | CATV M.H.   |
|  | PWR M.H.  |
|  | SEW/SAN M.H.  |
|  | TELEPHONE M.H.  |

CULVERT

## UNDERGROUND

|  |                    |
|--|--------------------|
|  | TELEPHONE PEDESTAL |
|  | STREET LIGHT POLE  |
|  | GAS VALVE          |
|  | SEWER VALVE        |
|  | WATER VALVE        |
|  | WATER METER        |
|  | GAS METER          |
|  | MARKER             |
|  | GUARDRAIL          |

## AERIAL

|  |                           |
|--|---------------------------|
|  | STEEL OR CONCRETE POLE    |
|  | S. LIGHT TO PLACE POLE    |
|  | AERIAL SPLICE             |
|  | 5/8" or 1/2" ROD/ANC.     |
|  | EXISTING UTILITIES POLE   |
|  | GROUND AT POLE            |
|  | PLACE UTILITIES POLE      |
|  | PLACE STORE SLACK         |
|  | EXISTING STORE SLACK      |
|  | MOVE EXISTING STORE SLACK |
|  | FENCE LINE                |
|  | SIDEWALK                  |
|  | LASH TO EXISTING          |
|  | MILE POST                 |



MMP ARROW



MAIL BOX



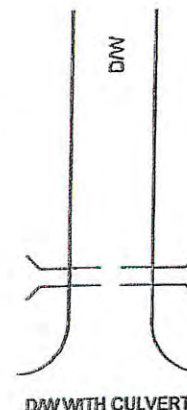
SIGN



FIBER OPTIC TOWER



WATER TOWER



DW WITH CULVERT

## EXISTING UTILITIES

|  |             |  |             |
|--|-------------|--|-------------|
|  | TRAF        |  | TRAF        |
|  | WTR         |  | WTR         |
|  | GAS         |  | GAS         |
|  | COMM        |  | COMM        |
|  | SWR         |  | SWR         |
|  | HW          |  | HW          |
|  | P/L         |  | P/L         |
|  | PWR         |  | PWR         |
|  | USW         |  | USW         |
|  | CATV        |  | CATV        |
|  | STORM DRAIN |  | STORM DRAIN |
|  | DRAIN       |  | DRAIN       |

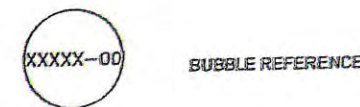


RAILROAD TRACKS

## MISC.



DOOR



BUBBLE REFERENCE



TREE



NORTH ARROW



PREVIOUS / NEXT SHEET  
PROPOSED FIBER OR DUCT

## TEXT BLOCK COMPLETE

REF # 1-6  
APCO - N/A  
ID # N/A  
H/L - 30' +  
SL FO ATTACH - 22' 9"  
ST. LT. - 29' 2"  
CATV - 22' 4" (MR/RQ: MOVE TO ??' ??)  
TEL - 21' 4"

## ABBREVIATIONS

REF #1-3 = REFERENCE #  
1/50 = POLE CLASS & HEIGHT  
FOG = FOG LINE  
EOP = EDGE OF PAVEMENT  
EOG = EDGE OF GRAVEL  
C&G = CURB & GUTTER  
ROW = RIGHT OF WAY

## ABBREVIATIONS FOR POLE ATTACHMENTS

PWR = PRIMARY POWER  
SEC = SECONDARY POWER  
TRI = TRIPLEX  
CATV = CABLE TELEVISION  
F. O. = FIBER OPTIC CABLE  
TEL = TELEPHONE  
TRANS = TRANSFORMER  
XARM = POWER CROSSING ARM  
H/L = HOT LEG  
(MR/RQ: MOVE TO ??' ??) = MAKE READY REQUIRED  
ST. LT. = STREET LIGHT  
YD. LT. = YARD LIGHT  
S/L = SOUTHERN LIGHT  
SL FO = SOUTHERN LIGHT FIBER OPTIC CABLE



# BORE GRAPH BLOCKS AND STANDARDS

SOUTHERN LIGHT WILL MAINTAIN 18" FROM EXISTING UTILITIES.  
SOUTHERN LIGHT HAS LOCATED ALL EXISTING UTILITIES. AN EXTENSIVE  
LOCATE WILL BE PERFORMED PRIOR.

- SIDEWALK - 0.25
- DIRT PATH - 0.25
- GRAVEL PATH - 0.25
- BRICK/STONE S/W - 0.25
- DRIVEWAY - 0.50
- DIRT D/W - 0.50
- GRAVEL D/W - 0.50
- BRICK/STONE D/W - 0.50
- ROAD - 0.75
- DIRT ROAD - 0.75
- GRAVEL ROAD - 0.75
- BRICK/STONE ROAD - 0.75
- ROAD - 1.00

- COMMUNICATIONS LINE
- GAS LINE
- POWER LINE
- TRAFFIC LINE
- WATER LINE
- DRAIN
- SEWER
- STORM DRAIN
- STORM SEWER
- CULVERT

BORE GRAPH SURFACES  
GLOBAL WIDTH @ .01

- GRASS
- DIRT
- WATER

SITS ON TOP  
OF BORE GRAPH  
WHERE APPLICABLE

0'  
1'  
2'

SITS ON 1' LINE  
ON BORE GRAPH  
WHERE APPLICABLE  
UNLESS DEPTH IS STATED  
BY ENGINEER

0'  
1'  
2'

DRAW LINES TO SURFACE  
AS SHOWN THEN  
FILLET @ .03

PARENTS



BORE PIT  
DIG 4'x4'  
BORE PIT

END BORE  
BEG. FLOW



CULVERT with DROP

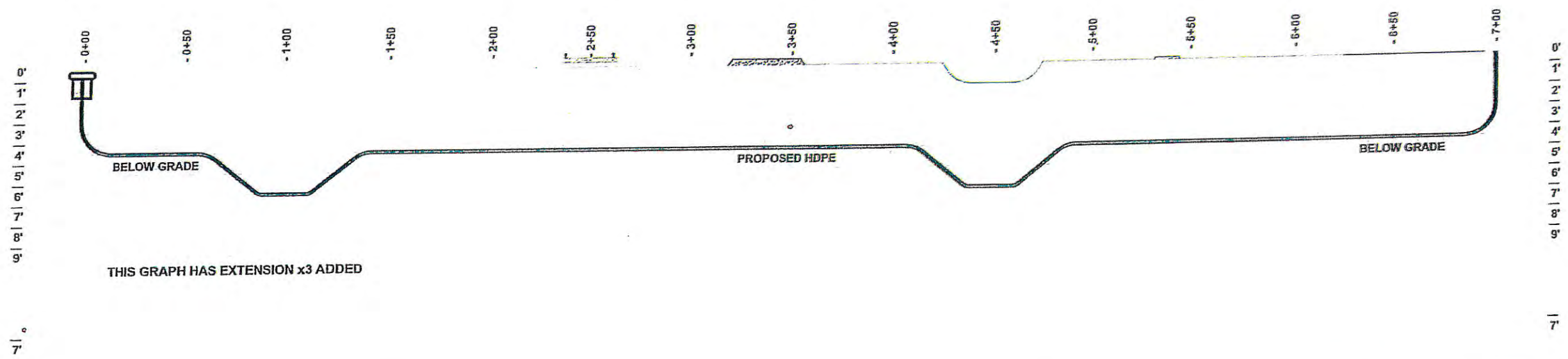


HAND HOLE

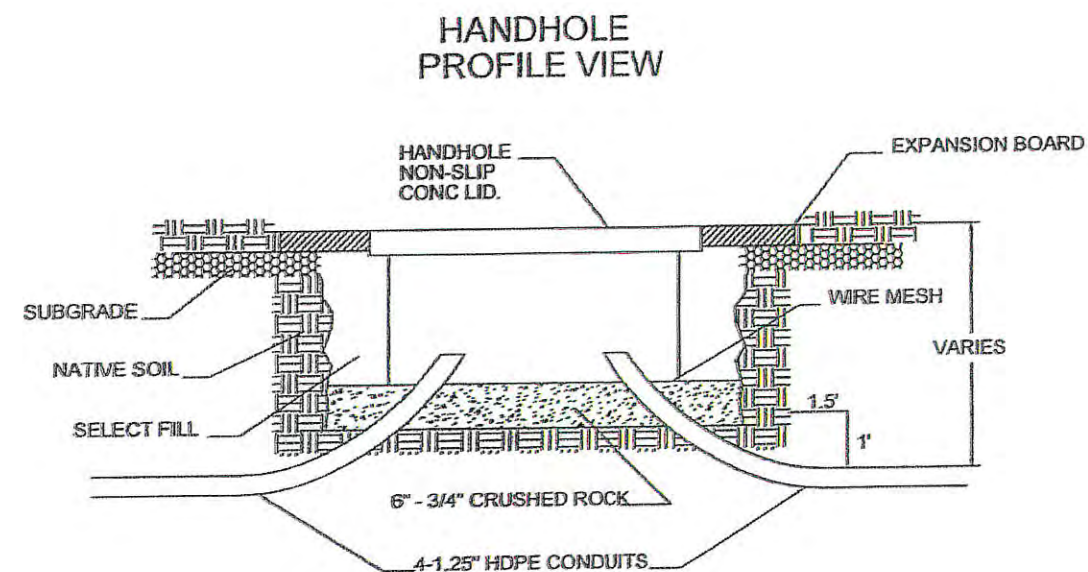
STANDARD INSERTION POINTS

POINTS ARE INDICATED IN GRAPHS  
POINTS ARE JUST A REF. DO NOT PUT IN DWG.

CSX CROSSING

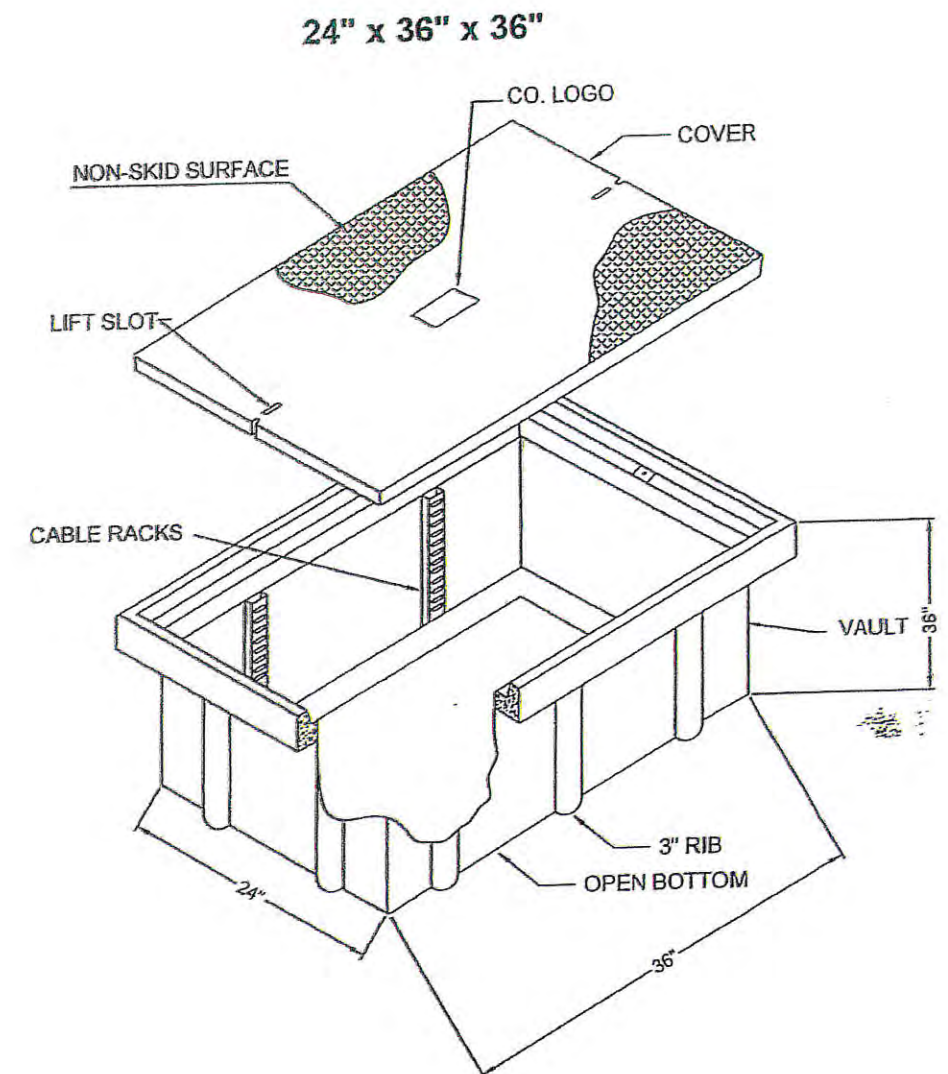






### CONDUIT TERMINATION APPLIES TO ALL HANDHOLES

1. PLACE 8" OF 3/4" CRUSHED ROCK OR 3/8" PEA GRAVEL IN THE BOTTOM OF THE EXCAVATION.
2. WIRE MESH (TWO SQUARES PER INCH) SHALL BE PLACED OVER THE ROCK.  
IT WILL BE NECESSARY TO CUT OPENINGS FOR HDPE IN WIRE MESH.
3. HANDHOLE WILL BE SET TO MATCH EXISTING SIDEWALK GRADE AND PARALLEL WITH CURB AND STREET.
4. HDPE CONDUIT SHALL BE PLACED IN THE CORNERS OF HANDHOLE.
5. TERMINATE THE HDPE CONDUIT A MINIMUM OF SIX (6) INCHES ABOVE THE WIRE MESH.  
DO NOT TERMINATE HDPE CONDUIT MORE THAN EIGHT (8) INCHES ABOVE THE WIRE MESH.
6. A MINIMUM OF TEN (10) FEET OF TRACER SHALL BE IN EACH HANDHOLE.
7. SELECT FILL WILL BE EITHER FLOWABLE FILL OR CLEAN SAND
8. FILL SHOULD BE COMPACTED IN 6" LIFTS AS PER DOT ENGINEERING STANDARD SPECIFICATIONS.
9. ALL SOUTHERN LIGHT HANDHOLES ARE 20K RATED.
10. TIER 15 = DRIVEWAY, PARKING LOT, AND OFF ROADWAY APPLICATIONS SUBJECT TO NON-DELIBERATE HEAVY TRAFFIC.
11. TEST LOAD = 22,500 LBS



|   |           |  |  |                       |                 |                                   |  |
|---|-----------|--|--|-----------------------|-----------------|-----------------------------------|--|
| ALL UTILITY LOCATIONS SHOWN ARE APPROXIMATE.<br>CONTRACTOR IS RESPONSIBLE FOR ALL LOCATING.<br>PRIOR TO ANY WORK PERFORMED.<br>CONTACT SOUTHERN LIGHT: 251-662-1170 |           | INFORMATION IN THIS DOCUMENT<br>IS PROPRIETARY AND SHALL NOT<br>BE USED, COPIED, REPRODUCED<br>OR DISCLOSED IN WHOLE OR IN<br>PART WITHOUT WRITTEN CONSENT<br>OF Southern Light. |  | <b>Southern Light</b> |                 | <b>HH SPECS</b><br>SOUTHERN LIGHT |  |
| DATE:   | REVISIONS |  |  | SCALE: AS STATED      | PROJ.NO.: N/A   | DATE: 07/30/12                    |  |
|   |           |  |  | INDEX REF.: TEL-FS    | ENG: N/A        | DRAWN BY: S. WANOUS               |  |
|   |           |  |  | ROUTE SCHEM: N/A      | SPLICE DWG: N/A | DWG. NO: HHSPEC                   |  |



**SPEED  
LIMIT  
45**

LASH NEW  
EST = 727'  
ACT = 0

PL. 6M —  
EST = 539'  
ACT = 0

PL. 6M —  
EST = 539'  
ACT = 0

|    |       |
|----|-------|
| MM | 40.81 |
|----|-------|

BATTLESHIP PKWY/HIGHWAY 42/9P 16

BATTLESHIP PKWY/HIGHWAY 42/ 97 16

6M GUY  
5/8" ROD/ANCHOR  
LEAD = 20'

SEE DETAIL "A"

6M GUY  
5/8" ROD/ANCHOR  
LEAD = 20'

96CT FIBER  
EST = 727'  
ACT = 0

STAINLESS STEEL LASHER  
CABLE SUPPORT AND .50" SPACER

CAUTION TAG  
FIBER OPTIC CABLE  
BLACK IN COLOR

GROUND LEVEL —

(X= MIN OF 20 TIMES  
THE CABLE DIA)

POLE TOP VIEW

CONDUIT ON QUARTER  
— ON POLE NEAREST  
REPEATER OR SPLICE H.H.

NOTES:

1. EXTEND U-GUARD MIN. 6" BELOW GROUND LEVEL
2. FOR CONDUIT PL. U-GUARD BELOW SURFACE TO CONDUIT ADAPTER.

REF #1-1  
APCO - 4X45  
ID # 5-259823  
TRI PLEX - 29' 3"  
UF FO ATTACH - 25' 10"

# 1-2  
APCO - 4X45  
ID # 5-029427  
H/L - 19' 4"  
POLE CHANGE  
OUT

#1-3  
APCO - 85'  
ID # 5-029424  
TRI PLEX - 28' 10"  
UF FO ATTACH - 23' 11"

DETAIL "A"

PULL FIBER  
EST = 188'  
ACT = 0

TR. MANUA  
EST = 12'  
ACT = 0

TR. MANUA  
EST = 12'  
ACT = 0

PL. H.H.  
36"x24"x36"  
150' SLACK

2-1.25" HDPE  
EST = 12'  
ACT = 0

96CT FIBER  
EST = 188'  
ACT = 0

END VIEW OF TRENCH

2 - 1.25"  
HDPE  
F O

### DETAIL OF AERIAL TO UNDERGROUND TRANSITION

GRAPHIC SCALE

A horizontal number line with tick marks at -40, 0, and 40. The region between -20 and 0 is shaded dark gray. The region between -40 and -20 is white. The region between 0 and 40 is white.

( IN FEET )

1 inch = 40 ft.

ALL UTILITY LOCATIONS SHOWN ARE APPROXIMATE.  
CONTRACTOR IS RESPONSIBLE FOR ALL LOCATING.  
PRIOR TO ANY WORK PERFORMED.

CONTACT UNITI FIBER: 877-652-2321

CONTACT UNITI FIBER: 877-652-2321

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**OYSTER HOUSE CAUSEWAY**  
#3733 BATTLESHIP PARKWAY  
SPANISH FORT, AL

|      |               |
|------|---------------|
| 1:40 | PROJ. NO.: N/ |
|------|---------------|

DATE: 09/14/17

|                 |                |
|-----------------|----------------|
| REF.: OYSTER-CV | ENG: T. MORGAN |
|-----------------|----------------|

DRAWN BY: J.T. METANTE

|           |     |              |     |
|-----------|-----|--------------|-----|
| E SCHEM.: | N/A | SPLICE DWG.: | N/A |
|-----------|-----|--------------|-----|

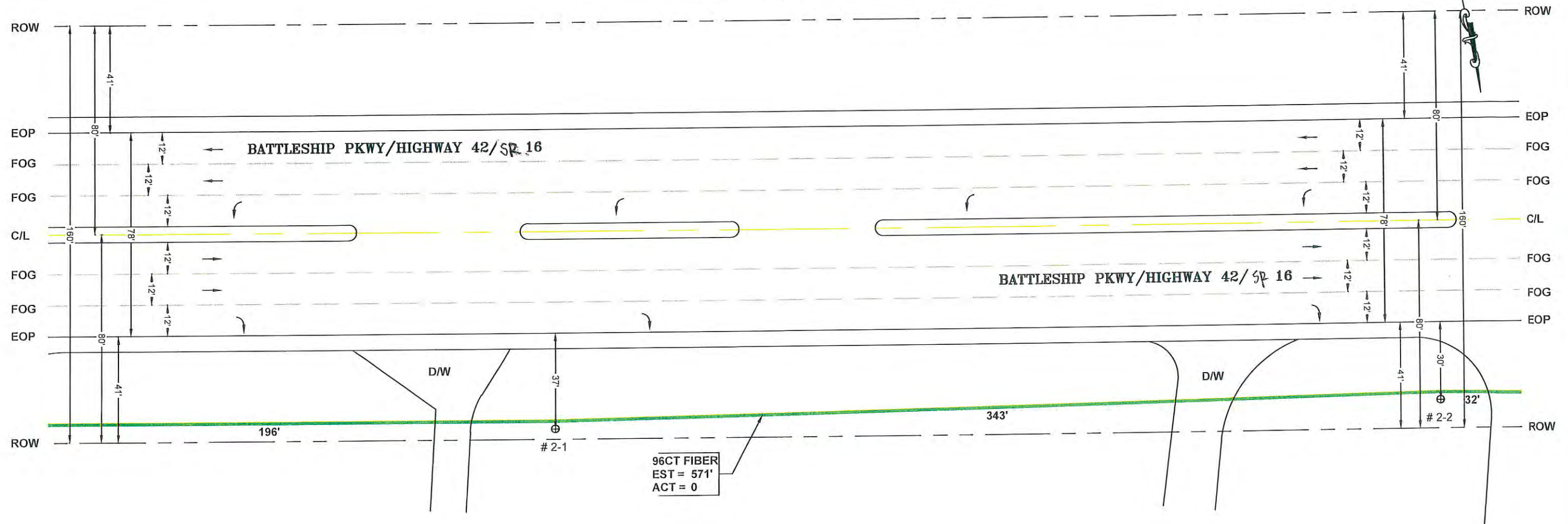
DWG. NO: OYSTER-01



SPEED  
LIMIT  
45

PL. 6M  
EST = 571'  
ACT = 0

LASH NEW  
EST = 571'  
ACT = 0



#2-1  
APCO - 85'  
ID # 5-029420  
H/L - 30' 0"  
UF FO ATTACH - 26' 7"

#2-2  
APCO - 85'  
ID # 5-029411  
H/L - 29' 9"  
UF FO ATTACH - 22' 9"

GRAPHIC SCALE



( IN FEET )

1 inch = 40 ft.

ALL UTILITY LOCATIONS SHOWN ARE APPROXIMATE.  
CONTRACTOR IS RESPONSIBLE FOR ALL LOCATING.  
PRIOR TO ANY WORK PERFORMED.

CONTACT UNITI FIBER: 877-652-2321

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OYSTER HOUSE CAUSEWAY  
#3733 BATTLESHIP PARKWAY  
SPANISH FORT, AL

|       |           |                       |                  |                        |
|-------|-----------|-----------------------|------------------|------------------------|
| DATE: | REVISIONS | SCALE: 1:40           | PROJ. NO.: N/A   | DATE: 09/14/17         |
|       |           | INDEX REF.: OYSTER-CV | ENG: T. MORGAN   | DRAWN BY: J.T. METANTE |
|       |           | ROUTE SCHEM.: N/A     | SPLICE DWG.: N/A | DWG. NO: OYSTER-02     |

