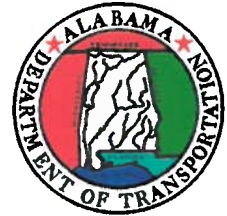




ROBERT BENTLEY
GOVERNOR

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

May 19, 2016

Southern Light, LLC
P.O. Box 2525
Mobile, AL 36652

Dear Ms. Subirats:

RE: Permit Number: 9-2-10257 **Permit Expiration Date:** May 19, 2017
Baldwin County


Attached please find an approval for the directional bore installation of 138 LF of 2 – 1.25" HDPE conduits, with one containing fiber optic cable and placement of (1) hand hole along US 90 from MP 43.42 to MP 43.43.

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. Kevin C. Jones, District Manager, 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: 
Kevin C. Jones, P.E.
District Manager

KCJ/dr
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-Way

Project Number _____
 Permit Number 9-2-10257
 Route Number SR 90 US-90
 R.O.W. _____
 Location of Accommodation: Milepost 43.43 to 43.42
 Bond Number 8950992
 Bonding Agency F&D Survey Co of Maryland
 P.E. _____
 Construction _____
 Utilities Telecommunications

THIS AGREEMENT is entered into this the 18th day of April, 2016, by and between the Alabama Department of Transportation acting by and through its Transportation Director hereinafter referred to as ALDOT and Gaithorn 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. 138' of directional boring with a fiber optic cable inside 2-1.25 HDPE
encasement & 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 hereof 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 a part hereof by reference.
3. The national Manual on Uniform Traffic Control Devices, ALDOT approved edition, is hereby made a part hereof 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 hereof 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 stormwater 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 hereof 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 telecommunications / fiber optic installations

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 18th day of

April, 2016.

WITNESS:

Andrew Brantlett

Southern Light LLC
Legal Name of Applicant

By: K Subirats OSP Permitting Specialist
Signature and Title

Katherine Subirats
Typed or Printed Name

PO Box 2525
Address Line 1

Mobilu, AL 36652
Address Line 2

(251) 445-8651
Telephone Number

RECOMMENDED FOR APPROVAL:

[Signature]
District Manager

5/19/16
Date

Area Operations Engineer

Date

Region Engineer

Date

APPROVED:

ALABAMA DEPARTMENT OF TRANSPORTATION
ACTING BY AND THROUGH ITS TRANSPORTATION
DIRECTOR

By: Vincent E. Calamelli ACT
Maintenance / Region / Area Operations Engineer or District Manager

Date: 5/19/16

**BOND
FOR PERFORMANCE OF THE WORK**

STATE OF ALABAMA
MONTGOMERY COUNTY

PERMIT NUMBER: _____
BOND NUMBER: 08950772

KNOWN ALL MEN BY THESE PRESENTS: That we Southern Light, LLC
107 St. Francis St., Suite 1800, Mobile, AL 36602 as Principal, and Fidelity and Deposit Company
of Maryland, as Surety, are held and firmly bound unto the
ALABAMA DEPARTMENT OF TRANSPORTATION, in the penal sum of \$100,000.00
for the payment for which well and truly to be made, we hereby bind ourselves, our heirs,
executors, administrators, successors and assigns.

IN WITNESS WHEREOF, we have hereunto set our hands and affixed our seals, this the
19th day of August, 2015.

PROVIDED, HOWEVER, that the condition of this obligation is such that whereas the
above bound principal hereon, Namely, Southern Light, LLC this day entered into
a permit Contract as applicant with the ALABAMA DEPARTMENT OF TRANSPORTATION
for work on highway right of way, attached hereto and incorporated herein, required by the
Department as provided for in the permit contract, to be performed in All
County, Alabama, Highway Number AL State Hwys, a copy of which permit Contract is hereto
attached.

NOW, THEREFORE, in the event the said Southern Light, LLC,
as such applicant shall faithfully and promptly perform the permit contract and all the conditions
and requirements thereof, then this obligation shall be null and void and of no effect, otherwise to
remain and be in full force and effect.

PROVIDED, further, that upon the failure of the said Southern Light, LLC
_____, as such applicant, to promptly and efficiently
prosecute said permit contract work in any respect, in accordance with the permit contract, the
above bound Fidelity and Deposit Co. of Maryland as Surety, shall take charge of said work
and complete the permit contract at their own expense, pursuant to its terms. Said Surety may, if
they so elect, by written direction given to the State Transportation Director authorize the
Director to complete or cause to be completed the said permit contract work at the expense of
said Surety, and such Surety hereby agrees and binds Surety to pay the cost and expense of the
completion of such permit contract work.

In the event said Principal shall fail or delay the prosecution and completion of said
permit contract work and said Surety shall also fail to act promptly as hereinbefore provided,
then said Transportation Director may cause ten days notice of such failure to be given, either,
either to said Principal or Surety, and at the expiration of said ten days, if said Principal or Surety
do not proceed promptly to complete the permit contract, including all work provided therein, the
ALABAMA DEPARTMENT OF TRANSPORTATION shall have the authority to cause said
permit contract work to be done and accomplished and when the same is completed and cost
thereof determined, the said Principal and Surety shall and hereby agree to pay any and all cost of
said permit contract work.

The said Principal and Surety further agree as a part of this obligation to pay all such
damages of any kind to person or property that may result from a failure in any respect to
perform and complete said permit Contract including all work therein provided.

The decision of the Director of the Alabama Department of Transportation upon any question connected with the execution of the permit Contract, or any failure or delay in the prosecution of the permit contract work, attached hereto and incorporated herein, by said Principal or Surety, shall be final and conclusive.

WITNESS our hands and seals, this 19th day of August, 20 15.

ATTEST:

Andru Bramblett VP of OSY Operations
(Name and Title)

Southern Light, LLC

(Signature of Applicant Official)

VICE PRESIDENT, OSP OPERATIONS
(Title of Officer Signing)

(Affix Seal) Fidelity and Deposit Company of Maryland
Name of Surety

Legal Name of Applicant (Company) as Principal
1400 American Lane, Tower I, 19th Floor
Schaumburg, Illinois 60196

Address

(205) 980-0478

Contact Number

By: Anna B. Rushing
Attorney in Fact - for Surety
Anna B. Rushing

NOTICE TO ALABAMA RESIDENT AGENT

Countersigned by Alabama
Resident Agent for Surety:

X Anna B. Rushing
Name Anna B. Rushing, Resident Agent
2065 Old Shell Road

Address

Mobile, AL 36607-3350

Please print or write legibly your name and
complete address below:

Southern Light, LLC

107 Saint Francis Street, Suite 1800

Mobile, AL 36602

(A copy of the Power of Attorney properly executed by the Company authorizing the Agent signing above to bind the Company as Surety on this Bond must be attached hereto. Said Power of Attorney must be dated so as to correspond with the execution date of the bond.)

**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 THOMAS O. MCCLELLAN, 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. MATTEL, M. Harland ISON, JR, Lewis BEVILLE, Allen H. LADD, Peyton L. MATTEL, 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 4th day of October, A.D. 2013.

ATTEST:

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



By: Eric D. Barnes
Assistant Secretary
Eric D. Barnes

Thomas O. McClellan
Vice President
Thomas O. McClellan

State of Maryland
City of Baltimore

On this 4th day of October, A.D. 2013, before the subscriber, a Notary Public of the State of Maryland, duly commissioned and qualified, THOMAS O. MCCLELLAN, Vice President, and ERIC D. BARNES, Assistant 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, 2015



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 19 day of AUGUST, 20 15.



Geoffrey Delisio

Geoffrey Delisio, Vice President



August 31, 2015

RE: Vermeer Directional Boring Machine (36x50/24x40/16x20)

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:

☐ Vermeer 36x50 and 24x40: capable of a maximum flow rate of 50 GPM at 1300 PSI.

☐ Vermeer 16x20: capable of a maximum flow rate of 25 GPM at 1000 PSI

Expectant Conditions:

The normal boring flow may vary but for most soil conditions is 5-10 GPM for the 36x50/24x40. The 16x20 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. Please note ALDOT Maximums of 15GPM flow & 350PSI will not be exceeded at any point throughout the permitted construction project and Southern Light intends to be below the ALDOT allowable maximum standards throughout the permitted construction project. As stated, these rates are applicable to field installation and the permit application.

Please contact John S. Hixon (251) 510-0080 with questions. Thank you very much for your cooperation.

Sincerely,

Michael McCarty
Southern Light, LLC Outside Plant Division

251.662.1170 office • 251.662.1297 fax
156 St. Anthony Street • Mobile, AL 36603 • www.slfiber.com

BORING PROCEDURE FOR ALDOT RIGHT-OF-WAY

Utility Name: Southern Light, LLC

Bore Location: SR 90

Permit No.: _____

- A. **ENVIRONMENTAL PROTECTION:** Before any work is begun on ALDOT right-of-way, the contractor shall install erosion control devices which meet current ALDOT standards and specifications. Additional environmental protection necessary to contain any hydraulic or boring fluid spills shall be installed, including berms, liners, turbidity curtains and other measures. Contractor shall adhere to all applicable environmental regulations. Fuel or oil may not be stored in bulk containers within 200' of any water-body or wetland.
- B. **UTILITY LOCATES:** Contractor shall notify all companies with underground utilities in the work area via the State or Local "One Call" to obtain utility locates. Contractor shall not begin work until all underground utilities within the work area have been located.
- C. **SAFETY:** Contractor shall adhere to all State, Federal, and Local Safety regulations and all operations shall be conducted in a safe manner.
- D. **DRILLING FLUIDS:** A solution marketed as Max gel will be used as a boring lubricant during the boring process. Per manufacturers recommendations the lubricant can be injected into the operation at a maximum rate of 8 Gallons per minute. Actual operating injection rate shall be 6 gallons per minute. A solution marketed as bentonite will be used as a sealant to support any unstable soil encountered during the bore application. Per manufacturers recommendation the sealant can be injected at the maximum rate of 1200 pounds per square inch. Actual operating pressure shall be 100 pounds per square inch.
- E. **DRILLING EQUIPMENT:** The drilling machine to be used in this operation will be manufactured by Vermeer, model 24 x 40. The machine has a maximum operating thrust of 24,000 pounds and a maximum pull back of 40,000 pounds. The automatic locating system will be a Digi-Track FS which will allow the operator and spotter to maintain depth and grade at all times.
- F. **PILOT HOLE:** A 4 inch Pilot hole shall be drilled on bore path at or greater than the required minimum depth over a length of 100'. In the event that pilot does deviate from the bore path resulting in a bore depth less than the required minimum the contractor will notify the Engineer and the Engineer may require the contractor to pull back and re-drill from the location along the bore path before the deviation.
- G. **REAMING:** Upon successful completion of the pilot hole, the contractor will ream the bore hole to a 4 inch diameter using a 4 inch reaming head and if necessary repeat with a 5 inch reaming head to achieve the desired hole diameter needed to accommodate the required encasement pipe.
- H. **BORE:** All bores will begin and end a minimum of 3' beyond the toe-of-ditch and below the ditch elevation to achieve the minimum required cover within the right-of-way. The depth and direction of the bore will be tracked during the process by electronic detection of the bore head. The encasement will be plugged with duct sealing compound. This compound will be comprised of non-hazardous compounds.
- I. Any deviations from the above mentioned requirements will be covered with the ALDOT District Manager prior to the start of construction.
- J. At no time will 15 GPM at 350 PSI be used without prior notification given to ALDOT.

Brendan Whigham
Engineer Signature

4/5/16
Date



107 St. Francis Street, Suite 1800
Mobile, AL 36602
southernlightfiber.com
251-662-1170

April 5, 2016

Alabama Department of Transportation

Attn: Darrin Reed

Re: Attachment Agreement for Proposed Aerial Builds on ALDOT ROW

The necessary pole attachment permits have been submitted. Southern Light, LLC has a Master Pole Agreement with the company involved in this project. The company involved is Riviera Utilities.

Respectfully,

Katherine Subirats

OSP Permitting Specialist

UTILITY PERMIT CHECKLIST

Use with Permit Applications MB-01, MB-02, MB-03

Applicant Southwest Light, LLCRoute CR 90Milepost 43.43 - 43.42

❖ **All submittals & questions should be directed to the District Office unless otherwise noted.**

District 1

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

District 2

Mr. Kevin C. Jones, District Manager
47450 Rabun Road
Bay Minette, Alabama 36507
(251) 937-2086

District 3

Mr. Brent Maddox, District Manager
10610 Highway 31 South
Evergreen, Alabama, 36401
(251) 578-7540

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.

****Preliminary Discussions should be held with ALDOT for large scale Utility Projects or those that require extensive excavation/trenching or major traffic disruption.**

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 (Enter date for final submittal only)
- ☒ Applicant's Legal Name, signature, mailing address and phone number
- ☒ Include Amount of Bond, Bond Number, and Expiration Date (Enter on final submittal)
- ☒ Witness' Signature

Online References Available: ALDOT Permit Manual, ALDOT Utility Manual

UTILITY PERMIT CHECKLIST

Use with Permit Applications MB-01, MB-02, MB-03

General Permit Plan Requirements: (specific permit requirements follow)

- ✓ Vicinity Map (State & US routes labeled clearly)
- ✓ North arrow
- ✓ Posted Speed limits within boundaries of permit
- ✓ Scale or note stating "Not to Scale"
- ✓ Mile Post (nearest 0.01 mile)
- ✓ Detailed Legend
- ✓ Route Number (SR-xx, US-xx, I-xx)
- ✓ Denote centerline, right of way, 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
- ✓ Include all "ALDOT standard and special drawings" applicable 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)
- ✓ Sequence of Construction – (order that work will be done)
- ✓ Permit notes

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 & Profile required
 - Type to be used (Ex. – Dry Bore)
 - Show milepost for each bore
 - Show encasements if required, any other utilities or drainage structures, etc.
 - Crossing should be as perpendicular to the road as possible
- ✓ Location of all existing & proposed utilities, appurtenances, drainage structures & accessories
- ✓ Typical section of all bores or crossings (show all depths, lengths, distances, and type bore)
- N/A Show abandoned utility lines
 - Abandoned lines 4" or greater will be filled with grout or removed.
- N/A If a patch is to be made it shall be according to ALDOT's patch detail requirements
- ✓ Type of Bury – Trenching, Plow, Directional Bore, Jack and Bore, etc...
 - plowing or trenching will not be allowed within the road prism area
- ✓ Depth of Bury
 - 36" minimum under ROW, 48" minimum under pavement, but additional depth may be required
 - 8' to 12' burial depth required for stream or river crossings
- ✓ Boring Method
 - Type of Bore with procedure and specifications, borehead and reamer size
 - 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, width, depth)
 - Bore pits must be located outside D/A fence,

UTILITY PERMIT CHECKLIST

Use with Permit Applications MB-01, MB-02, MB-03

- ✓ • Side roads must be bored & encased if ADT > 500
- ✓ Profile of proposed Bore Crossings
- ✓ Profile if manholes are permitted (Manholes must be flush with existing ground line)
- N/A All meters must be installed off ALDOT rights-of-way
- ✓ Horizontal distance from bridge footings or drainage structures is 25 foot minimum
- N/A Type marking to be placed with power lines (Metal strip, flagging, etc.)

Encasements

- N/A Water, Sewer and Gas mains larger than 2" will be encased in coated steel
- ✓ Communication lines may use 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
- N/A Encasements beneath Interstates should extend beyond the denied access on both sides
- N/A 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.
- N/A 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

Aerial Utilities:

- N/A Profile of Roadway Crossing, showing pole height, vertical clearances over centerline of travel ways, arm length if street light
 - Minimum of 25' of clearance over Interstate (for bridges, that measurement is from top of bridge rails), Minimum of 18' of clearance over travel ways
 - Clearance shown should be height of cable over travel lanes and sag point in line
- N/A Direction of guys can only be parallel with roadway
 - Guys with anchors 30 foot beyond the edge-of-pavement will be allowed when not perpendicular with roadway
- N/A Poles shall be placed outside clear zone or and outside denied access fence on Interstate routes.
- N/A Proposed poles to be replaced/installed to an existing line shall be "In-Line"
- N/A New poles installation requires the location of existing underground utilities with ties and any drainage structures to be shown in plans.

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)

UTILITY PERMIT CHECKLIST

Use with Permit Applications MB-01, MB-02, MB-03

Permit General Notes: *All notes must be listed on plan sets or permit will not be processed*

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 Manager 48 hours prior to beginning work on ALDOT right-of-way. The District Managers for the Region are as follows:
Area- 9
(91) Mobile County – Frankie Smith, (251) 470-8322
(92) Baldwin County – Kevin Jones, (251) 937-2086
(93) Escambia and Conecuh Counties – Brent Maddox, (251) 578-7540
4. The permit applicant shall write a letter requesting to meet with the District Manager 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 is 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 Hixor (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 Manager.
10. All work will meet or exceed ALDOT specifications.
11. All work on the ROW will be in conformance with the latest edition of ALDOT Standard Specifications.
12. Electric power and communication facilities will conform with the current applicable *National Electrical Safety Code*
13. 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 R/W)
14. All trees over 4" shall not be cut/removed without written permission from ALDOT.
15. All installations that require bore pits must state/depict bore pit dimensions (L x W x D).
16. 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)
17. Upon completion & any time thereafter, ALDOT retains the right to request an As-Built profile on any buried utilities in said department's ROW.
18. 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.
19. The amount of area to be disturbed during construction of this permit is 0.0001 acre(s). (Total project area)
20. Water lines will conform with the currently applicable standards of the *American Water Works Association*
21. Pressure pipe lines will conform with the currently applicable sections of *American National Standards Institute (ANSI)*
22. As required by Alabama Act 94-487: Call two working days before excavation 1-800-292-8525, Alabama Line Location Center, Inc.
23. It shall be the contractor's responsibility to contact the various utility owners and determine the exact location of all existing utilities on this project, whether shown on the plans or not, before commencing work. The contractor shall be fully responsible for any damages which might be occasioned by his failure to exactly locate and preserve any and all utilities.

UTILITY PERMIT CHECKLIST

Use with Permit Applications MB-01, MB-02, MB-03

24. The contractor shall be responsible for any ornamental vegetative landscaping (shrubs, flowers, ornamental grass, etc.) disturbed during construction and shall be replaced, transplanted or resodded as directed by the Alabama Department of Transportation district manager.
25. All fill material or onsite debris deposited in the right-of-way shall be removed prior to issuance of certificate of occupancy.
26. The contractor 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).
27. 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.
28. Clean up streets immediately after concrete or other delivery trucks leave the site. Mud and debris are to be kept off streets, inlets, ditched, etc.
29. 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
30. The contractor or permit applicant 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.
31. 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.

UTILITY PERMIT CHECKLIST

Use with Permit Applications MB-01, MB-02, MB-03

Online References Available: ALDOT Permit Manual, & ALDOT Utility Manual

Notes: (1) Please check all items that apply, if item is not applicable to permit write N/A on line provided.

(2) This list may not be all inclusive; ALDOT reserves the right to request additional information that may be needed for a particular project.

(3) **As-Built Certification** - After completion of work a signed certification letter will be submitted by the Engineer of Record for the permit application stating the project was constructed in accordance with plans approved by the State and with specifications, supplemental specifications and special provisions at the time of approval.

COMMENTS: N/A

<u>Southern Light</u>	<u>PO Box 2525</u>	<u>4/18/16</u>
Applicant	Applicant's Mailing Address	Date
<u>(251) 445-8151</u>	<u>krubirats@alfiber.com</u>	
Applicant's Phone Number	Applicant's E-mail address	
<u>Brandon Whigham</u>		
Engineer of Record		
<u>(251) 709-7749</u>	<u>bwhigham@alfiber.com</u>	
Engineer's Phone Number	Engineer's E-mail address	
<u>Southern Light LLC</u>		
<u>PO Box 2525</u>		
<u>Mobile, AL 36652</u>		
Mailing Address for Approved Permit		

SAAD HEALTHCARE SPANISH FORT RETAIL

#6450 US HIGHWAY 90 - SPANISH FORT, AL

PLANS FOR PROPOSED PROJECT:

FIBER OPTIC INSTALLATION

MILE MARKER 43.43 TO 43.42

MARCH 23, 2016



southern light

JOB INFORMATION

APPROVED: _____

DATE: _____

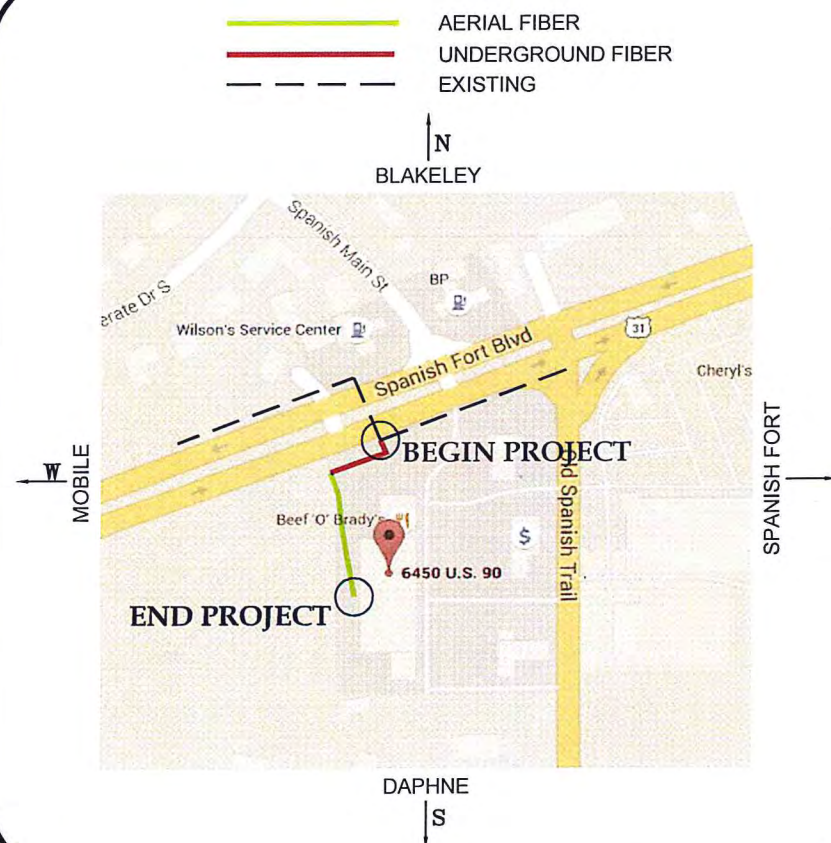
JOB # AB03081605

UNDERGROUND: EST - 453' / ACT -

AERIAL: EST - 329' / ACT -

TOTAL FIBER: EST. - 782' / ACT. -

VICINITY MAP



PROJECT LOCATION



CONTACT LIST

PROJECT MANAGER: JOHN HIXON - (251) 510-0080

ENGINEER: BRANDON WHIGHAM - (251) 709-7749

PROJECT CONTACT: KATHERINE SUBIRATS - (251) 445-8651
CAROLINA WEAVER - (251) 445-1048

ATTENTION PERMITTING DEPARTMENT

DIRECTORY

[illegible]

CPE LOCATION: <https://c.na13.visual.force.com/apex/cpeLocationView?id=a08a00000132xwo&sfdc.override=1>

SAAD HEALTHCARE SPANISH FORT RETAIL

#6450 US HIGHWAY 90 - SPANISH FORT, AL

PLANS FOR PROPOSED PROJECT:

FIBER OPTIC INSTALLATION

MILE MARKER 43.43 TO 43.42

MARCH 23, 2016

 AERIAL FIBER
 UNDERGROUND FIBER
 EXISTING



VICINITY MAP

GENERAL CONSTRUCTION NOTES

STATE OF ALABAMA - SOUTHWEST REGION

FIBER OPTIC INSTALLATION

ALDOT General Notes:

- 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 Manager 48 hours prior to beginning work on ALDOT right-of-way. The District Managers for the Region are as follows:

Grove Hill District		Mobile District	
District II - Thomaston: (334) 627-3458 Danny Etheridge, District Manager	District IV - Grove Hill: (251) 275-3675 Dorell Owens, District Manager	District I - Mobile County: (251) 470-8322 Frankie Smith, District Manager	District III - Conecuh & Escambia Counties: (251)578-7546: Tammy Evers, District Manager
District III - Camden (334) 682-4718 Johnny Stallworth, District Manager		District II - Baldwin County : (251) 937-2086 Kevin Jones P.E., District Manager	Traffic Management Center (ATS Center): (251)432-4069 David Johnson, ATS Center Manager

- 4. Write letter requesting to meet with District Manager upon completion of permitted work to evaluate 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 is accepted
- 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.) by the Department.
- 7. Onsite Representatives & Contact Information: JOHN HIXON - (251)510-0080 JOHN HARTMAN - (251)-753-1320
- 8. 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
- 9. All disturbed areas will be resodded or seeded as directed by the Department of Transportation's District Engineer.
- 10. All work will meet or exceed ALDOT specifications
- 11. All work on the ROW will be in conformance with the latest edition of ALDOT Standard Specifications.
- 12. Electric power and communication facilities will conform with the current applicable National Electrical Safety Code
- 13. 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, hay bales, and any other erosion control items needed shall be used to prevent erosion.
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- 20. Water lines will conform with the currently applicable standards of the American Water Works Association
- 21. Pressure pipe lines will conform with the currently applicable sections of American National Standards Institute (ANSI)
- 22. As required by Alabama Act 94-487: Call two working days before excavation 1-800-292-8525, Alabama Line Location Center, Inc.
- 23. It shall be the contractor's responsibility to contact the various utility owners and determine the exact location of all existing utilities on this project, whether shown on the plans or not, before commencing work. The contractor shall be fully responsible for any damages which might be occasioned by his failure to exactly locate and preserve any and all utilities.
- 24. The contractor shall be responsible for any ornamental vegetative landscaping (shrubs, flowers, ornamental grass, etc.) disturbed during construction and shall be replaced, transplanted or resodded as directed by the Alabama Department of Transportation district engineer.
- 25. All fill material or onsite debris deposited in the right-of-way shall be removed prior to issuance of certificate of occupancy.
- 26. The contractor 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).
- 27. 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.
- 28. Clean up streets immediately after concrete or other delivery trucks leave the site. Mud and debris are to be kept off streets, inlets, ditched, etc.
- 29. 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
- 30. Promptly notify the engineer and ALDOT of any perceived conflicts, ambiguous items or deficiencies in the plans, specifications, general notes or related contract documents.
- 31. 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.

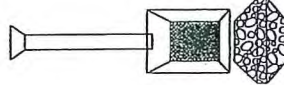


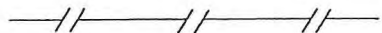
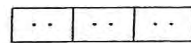

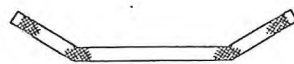
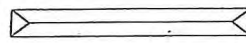

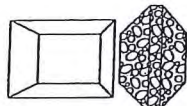

CONTACT LIST

PROJECT MANAGER: JOHN HIXON - (251) 510-0080

PROJECT CONTACT: HEATHER BOWEN - (251) 445-8650
CAROLINA WEAVER - (251) 445-1048



REFERENCE	PROJECT NO	YEAR	NO


BEST MANAGEMENT PRACTICE (BMP)	SPECIAL DRAWING NUMBER	PLAN SYMBOL	MATERIALS REQUIREMENT REFERENCES	CONSTRUCTION REQUIREMENT REFERENCES	USAGE GUIDELINES
TEMPORARY SLOPE DRAIN PIPE WITH ROCK DITCH CHECK AND SUMP EXCAVATION	ESC-200 (SHT. 2 OF 4)		665.02, 801, 810, 814 ALDOT LIST II-3	665.03, 665.04, 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 CONVEY 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, 665.04, 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, 665.04, 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 GRUBBING. 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) ESC-200 (SHT. 4 OF 4)		665.02, AASHTO M288 ALDOT LIST II-3	665.03, 665.04, 665.05	A SILT FENCE SEDIMENT BARRIER CONSIST 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-300 (SHT 1 OF 8)	SEE SYMBOLS BELOW FOR EACH CHECK STRUCTURE	665.02	665.03, 665.04, 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-300 (SHT 2 OF 8)		665.02	665.03, 665.04, 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 7)		665.02, 801	665.03, 665.04, 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, ALDOT LIST II-24	665.03, 665.04, 665.05, MANUFACTURER 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, MANUFACTURER LITERATURE	665.03, 665.04, 665.05, MANUFACTURER 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, 801, 810, 814, PLAN NOTE ALDOT LIST II-3	665.03, 665.04, 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 WITH SUMP EXCAVATION	ESC-300 (SHT 7 OF 8)		665.02, 801, 810, 814, PLAN NOTE ALDOT LIST II-3	665.03, 665.04, 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, AASHTO M288 ALDOT LIST II-3	665.03, 665.04, 665.05	SILT FENCE DITCH CHECKS ARE USED TO INTERCEPT LOW VOLUME FLOWS IN LOW TO MODERATE GRADIENT DITCHES.



--SPECIFICATIONS--
NOTE: ALL UNITS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE
CURRENT ALABAMA DEPARTMENT OF TRANSPORTATION

THIS DRAWING REPRESENTS DESIGNS PREPARED FOR USE BY THE ALABAMA DEPARTMENT OF TRANSPORTATION AND IS NOT TO BE COPIED, REPRODUCED, ALTERED, OR USED BY ANYONE, OR ANY ORGANIZATION, WITHOUT THE EXPRESSED WRITTEN CONSENT OF THE ALABAMA DEPARTMENT OF TRANSPORTATION REPRESENTATIVE AUTHORIZED TO APPROVE THIS USE. ANYONE MAKING UNAUTHORIZED USE OF THIS DRAWING MAY BE PROSECUTED TO THE FULLEST EXTENT OF THE LAW.

REVISIONS
1. Updated chart on 08-26-11 by J.F.T.
2. Revised and Updated Chart on 10-27-14 by J.F.T.

 **ALABAMA DEPARTMENT OF TRANSPORTATION**
1409 COLISEUM BOULEVARD
MONTGOMERY, AL 36103-3050

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

DRAWN BY: _____
DATE DRAWN: 2006

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

INDEX NO.
1160

NOT TO SCALE

REFERENCE PROJECT NO	FIGURE YEAR	SHEET NO

BEST MANAGEMENT PRACTICE (BMP)	SPECIAL DRAWING NUMBER	PLAN SYMBOL	MATERIALS REQUIREMENT REFERENCES	CONSTRUCTION REQUIREMENT REFERENCES	USAGE GUIDELINES
INLET PROTECTION	ESC-400 (SHT. 1 OF 4)		665.02	665.03, 665.04, 665.05	CONFIGURATIONS MAY BE ADJUSTED WITH APPROVAL OF THE ENGINEER FOR TRAVELWAY SAFETY, WATER FLOW, SOIL OR INSTALLATION CHALLENGES.
AGGREGATE INLET PROTECTION	ESC-400 (SHT. 2 OF 4)	*	665.02, 801	665.03, 665.04, 665.05	THE ELEVATION OF THE TOP OF THE REQUIRED STONE BERM SHALL BE A MINIMUM OF 450 mm ABOVE THE ELEVATION OF THE INLET WORKING POINT AND A MINIMUM OF 150 mm BELOW THE ELEVATION OF THE OUTSIDE EDGE OF THE INSIDE SHOULDER.
WATTLE INLET PROTECTION	ESC-400 (SHT. 3 OF 4)	*	665.02, ALDOT LIST II-24	665.03, 665.04, 665.05,	WATTLE INLET PROTECTION PROVIDES SEDIMENT TRAPPING BY PONDING STORMWATER TO A DEPTH EQUAL TO OR LESS THAN THE WATTLE DIAMETER.
SAND BAG INLET PROTECTION	ESC-400 (SHT. 4 OF 4)	*	665.02, 801	665.03, 665.04, 665.05	SAND BAG INLET PROTECTION PROVIDES SEDIMENT TRAPPING BY PONDING STORMWATER TO A DEPTH EQUAL TO OR LESS THAN THE STACKED HEIGHT.
FLOATING BASIN BOOM	ESC-501		665.02, MANUFACTURER LITERATURE	665.03, 665.04, 665.05, MANUFACTURER LITERATURE	A FLOATING BASIN BOOM 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, 801	665.03, 665.04, 665.05	STABILIZED CONSTRUCTION ENTRANCES ARE INSTALLED AT POINTS OF VEHICULAR INGRESS AND EGRESS. THE STABILIZED CONSTRUCTION ENTRANCES REDUCE THE AMOUNT OF SEDIMENT TRANSPORTED ONTO PAVED PUBLIC TRAVEL WAYS BY CONSTRUCTION EQUIPMENT AND OTHER MOTOR VEHICLES.
TEMPORARY DEWATERING STRUCTURE	ESC-503	**	107.13, CONTRACTOR DISCRETION	107.13, 524.03 MANUFACTURER 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 LADEN WATER TO SENSITIVE WATER BODIES OR IN URBAN AREAS.
TEMPORARY CULVERT STREAM CROSSING	ESC-504	**	107.13, CONTRACTOR DISCRETION	107.13, 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 WHICH MAY BE MODIFIED OR ADOPTED BY THE CONTRACTOR.
TEMPORARY DIVERSIONS	ESC-505 ESC-506	**	107.13, CONTRACTOR DISCRETION	107.13, 107.21, 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, 659.02, 860.11 ALDOT LIST II-11 ALDOT LIST II-24	665.03, 665.04, 665.05, MANUFACTURER LITERATURE	SEDIMENTATION BASINS ARE USED TO REDUCE TURBIDITY OF CONSTRUCTION STORMWATER RUNOFF DURING GRADING.
FLOCCULANT	ESC-508	****	665.02, 672.02 ALDOT LIST II-24	665.03, 665.04, MANUFACTURER LITERATURE	FLOCCULANT IS USED TO REDUCE TURBIDITY OF CONSTRUCTION STORMWATER RUNOFF DURING GRADING.
EROSION CONTROL PRODUCTS	ESC-509		659.02, 860.11, ALDOT LIST II-11	659.03, 659.04, 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 2H:1V OR STEEPER SLOPE LENGTHS MORE THAN 4.5 METERS.

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 DISCRETION UNLESS SPECIFICALLY MADE A PART OF THE CONTRACT.

NOTE:

* * * 1. SEDIMENTATION BASINS ARE DRAWN TO SCALE ON THE PLANS.

NOTE:

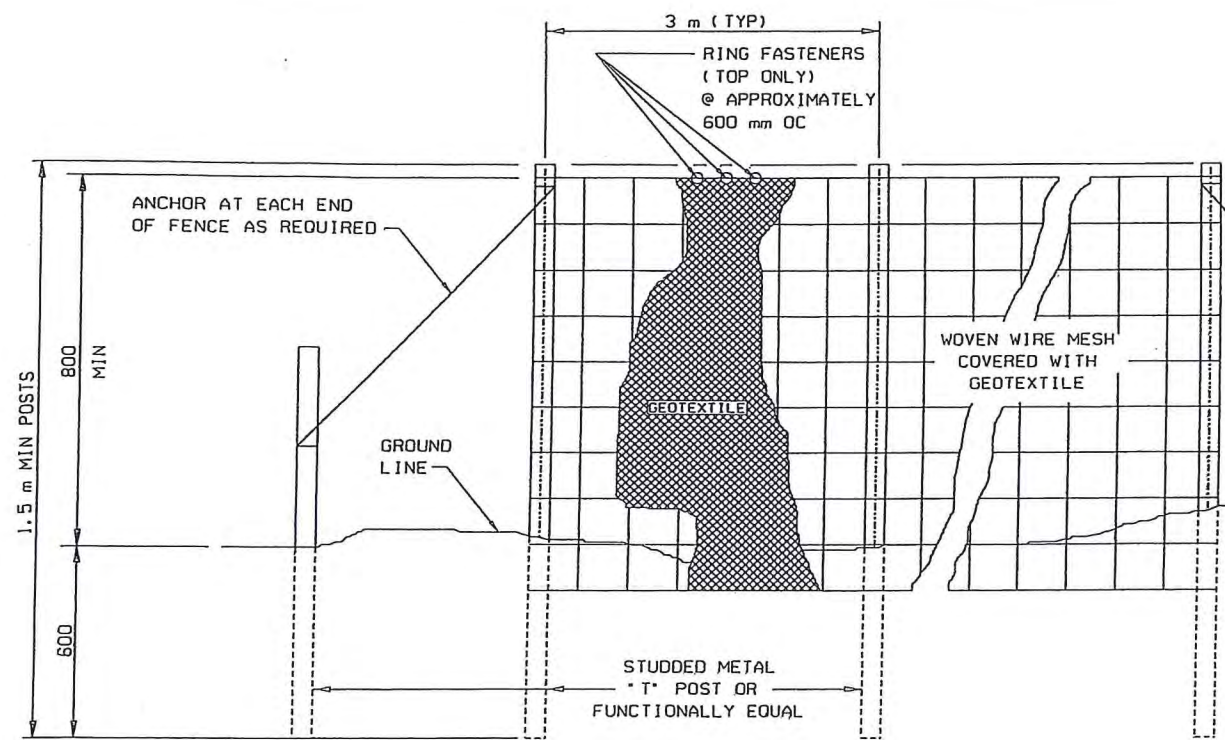
* * * * 1. FLOCCULANT TO BE APPLIED AT THE DIRECTION OF THE ENGINEER.



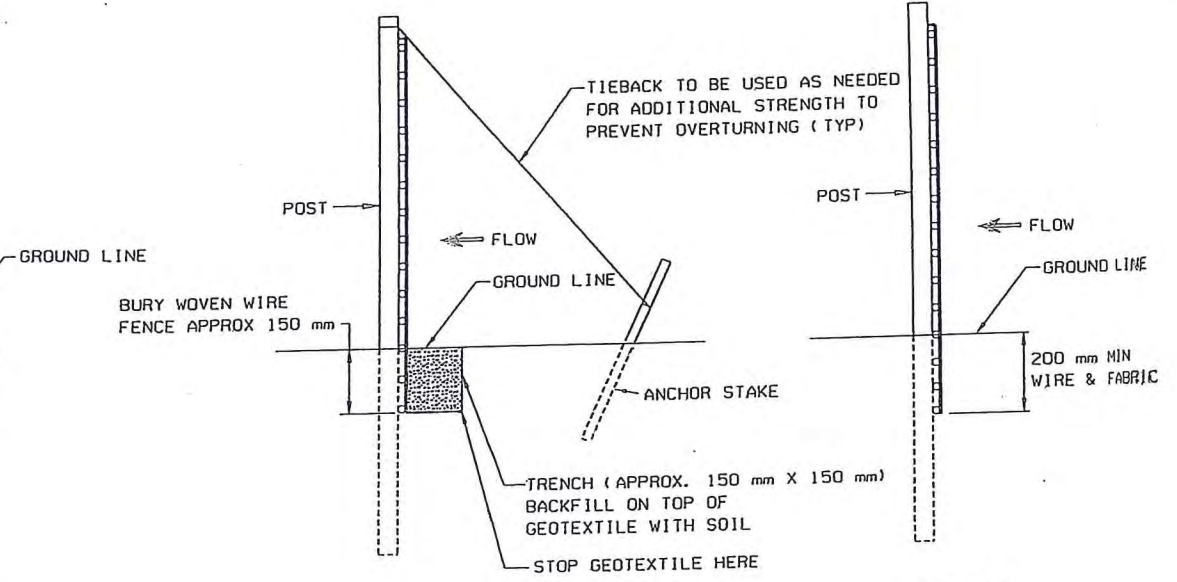
--SPECIFICATIONS--
NOTE: ALL UNITS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE
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REVISIONS 1. Updated Chart on 08-29-11 by J.F.T. 2. Updated Chart line positioning on 09-24-12 by J.F.T. 3. Updated, Revised Chart and added *** Note on 10-27-14 by J.F.T.			
DESIGN BUREAU SPECIAL DRAWING BEST MANAGEMENT PRACTICE REFERENCE MATRIX			
SPECIAL DRAWING NO. ESC-100 (SHEET 2 OF 2)		INDEX NO. 1160-A	
DRAWN BY: _____ DATE DRAWN: 2006			

NOT TO SCALE



ELEVATION VIEW

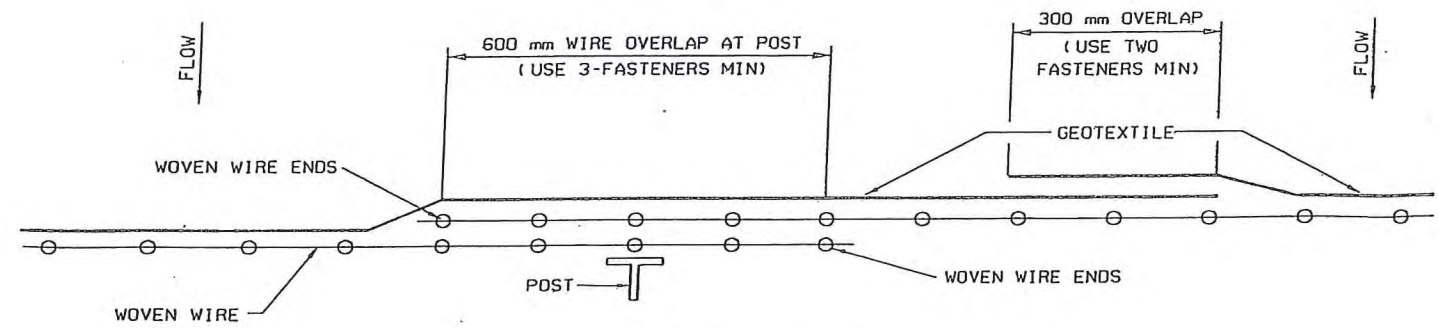


METHOD I

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 SMILE. 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.



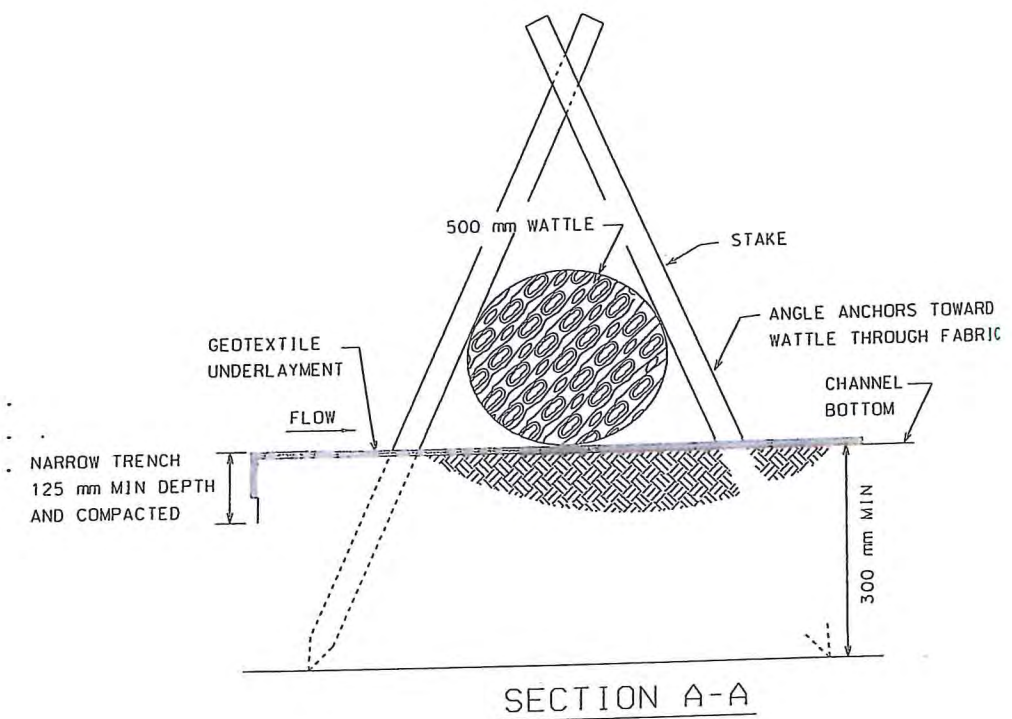
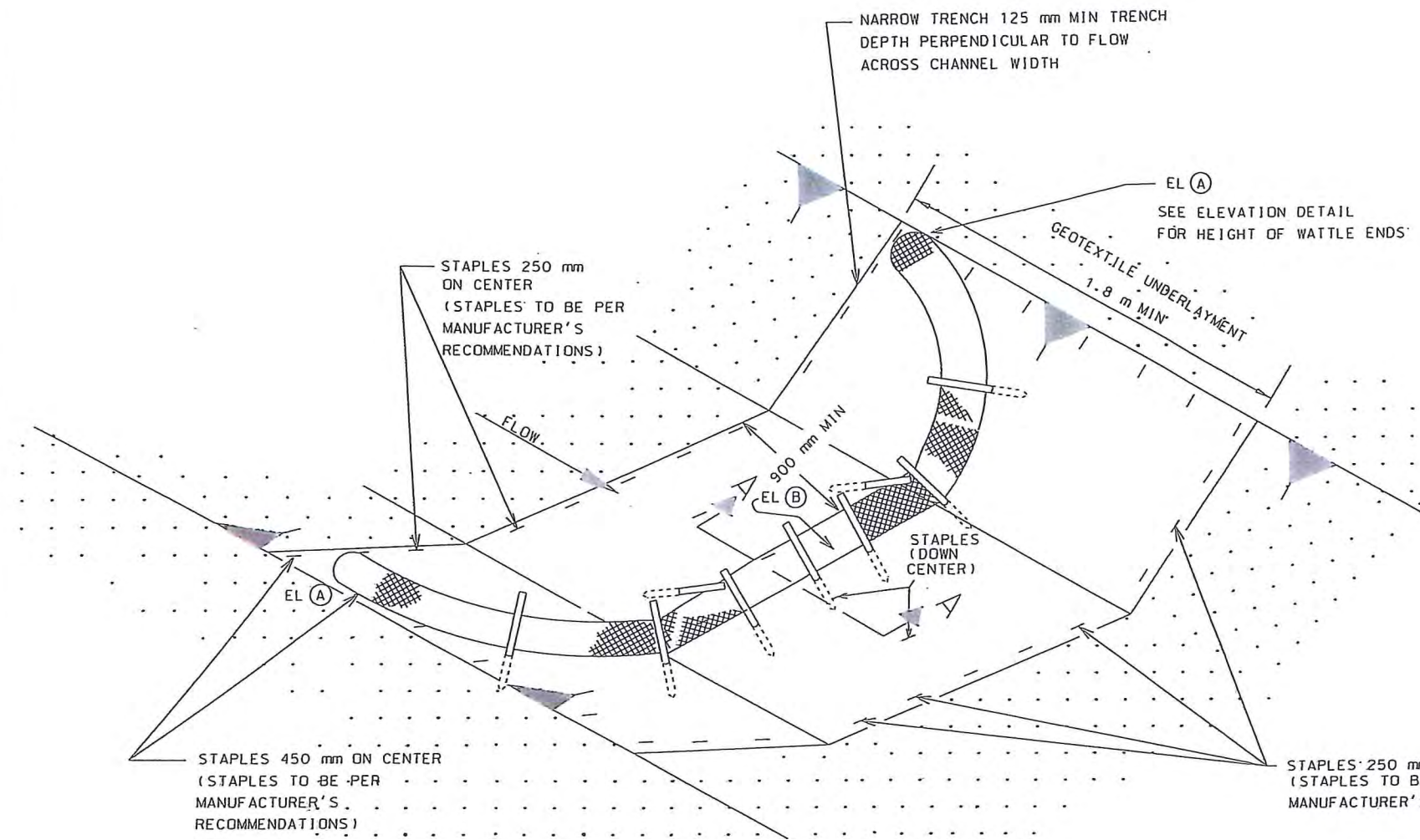
PLAN VIEW
REQUIRED LAPPING



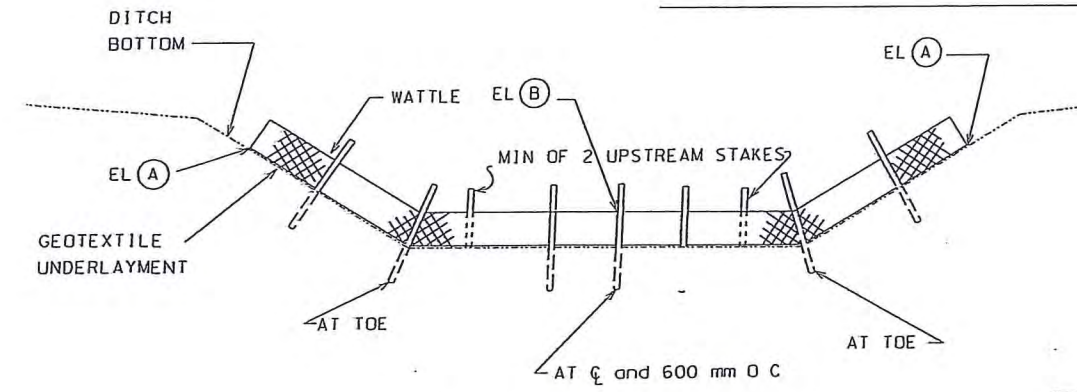
--SPECIFICATIONS--
NOTE: ALL UNITS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE
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<p>REVISIONS</p> <p>1. Revised Fence height and deleted (Type A) (Type A) from the Silt Fence description on 01-12-01 by J.F.T.</p> <p>2. Revised Notes 2, 3, 4, 6 and added No. 8 on 09-02-11 by J.F.T.</p>	<p>ALABAMA DEPARTMENT OF TRANSPORTATION</p> <p>1409 COLISEUM BOULEVARD MONTGOMERY, AL 36130-3050</p> <p>DESIGN BUREAU SPECIAL DRAWING</p> <p>DETAILS OF SILT FENCE (TYPE A) INSTALLATION</p>
<p>DRAWN BY: CONSTRUCTION BUREAU</p> <p>DATE DRAWN: 11-16-06</p>	<p>SPECIAL DRAWING NO. ESC-200 (SHEET 4 OF 4)</p> <p>INDEX NO. 1161-C</p>

NOT TO SCALE



DETAIL (DITCH CHECK)



ELEVATION DETAIL

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

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 0.0283 CUBIC METERS/SEC.

- NOTES:
1. MINIMUM RECOMMENDED PLACEMENT INTERVAL BETWEEN WATTLE DITCH CHECK IS 30 m 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 600 mm.
 3. WATTLES SHOULD NOT BE USED IN HARD BOTTOM CHANNELS.
 4. STAPLES SPACED 450 mm APART, ALONG THE CHANNEL EDGES AND DOWN THE CENTER OF THE CHANNEL. STAPLES SPACED 250 mm APART, ACROSS THE UPSTREAM AND DOWNSTREAM EDGES.



--SPECIFICATIONS--
NOTE: ALL UNITS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE
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<p>REVISIONS</p> <p>1. Added in "SECTION A-A" REQUIRED TRENCHING and deleted Note 5. Deleted "FLOCCULANT ZONE (SEE Note 5)" on 08-24-11 by J.F.T.</p> <p>2. Revised and updated "DETAIL (DITCH CHECK)" and "ELEVATION DETAIL". Revised text of "WATTLE DITCH CHECK SELECTION GUIDELINES" and adjusted and revised "SECTION A-A" on 09-24-12 by J.F.T.</p> <p>3. Revised Notes 1 and 4. Revised Drawing Description on 10-27-14 by J.F.T.</p>	<p>ALABAMA DEPARTMENT OF TRANSPORTATION</p> <p>1409 COLISEUM BOULEVARD MONTGOMERY, AL 36130-3050</p> <p>DESIGN BUREAU SPECIAL DRAWING</p> <p>DETAILS OF EROSION CONTROL WATTLE DITCH CHECK</p>
<p>DRAWN BY: _____</p> <p>DATE DRAWN: 2006</p>	<p>SPECIAL DRAWING NO. ESC-300 (SHEET 4 OF 8)</p> <p>INDEX NO. 1162-C</p>

NOT TO SCALE

UNDERGROUND

	EXISTING HANDHOLE
	EXISTING MANHOLE
	PLACE HANDHOLE
	PLACE MANHOLE
	10) PL. H.H. 113) 48"x36"x18" 150' SLACK
	EXISTING UTILITY HANDHOLE
	TRAFFIC SIGNAL
	ELECTRIC VAULT
	TRANSFORMER
	FIRE HYDRANT
	STORM SEWER M.H.
	CUT AND RESTORE CONCRETE / ASPHALT WHEN PLACING A HANDHOLE
	STORM DRAIN
	TIC MARK TO INDICATE WORK 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



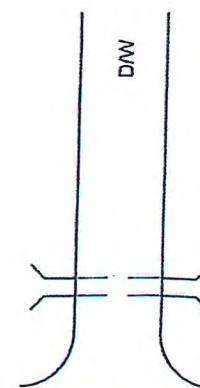
SIGN



FIBER OPTIC TOWER



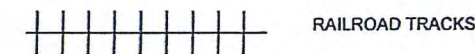
WATER TOWER



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

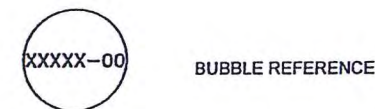


RAILROAD TRACKS

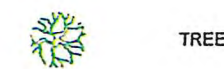
MISC.



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

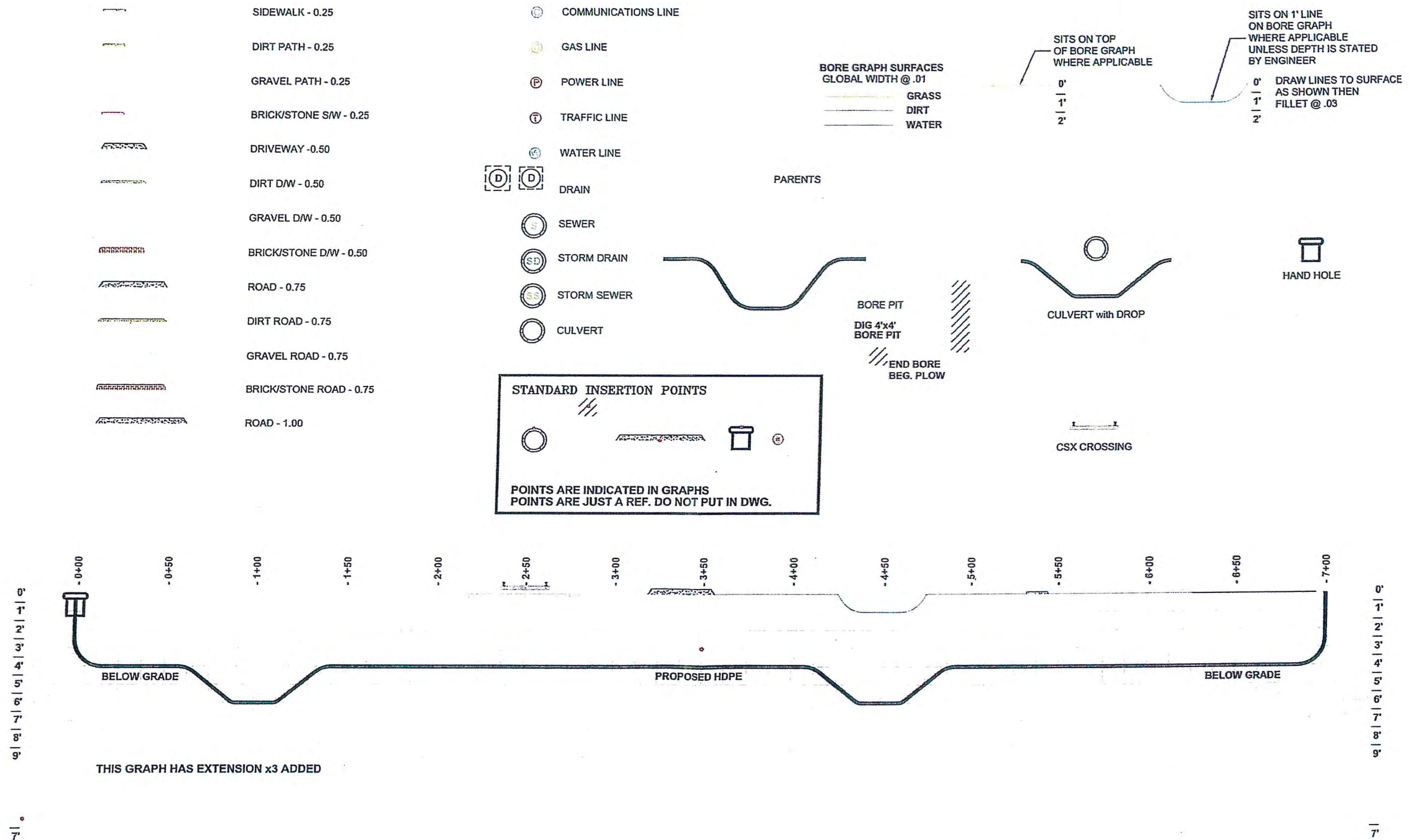
REF #1-3 = REFERENCE #
1/50 = POLE CLASS & HEIGHT
FOG = FOG LINE
EOP = EDGE OF PAVEMENT
EOG = EDGE OF GRAVEL
C&G = CURB & GUTTER
ROW = RIGHT OF WAY

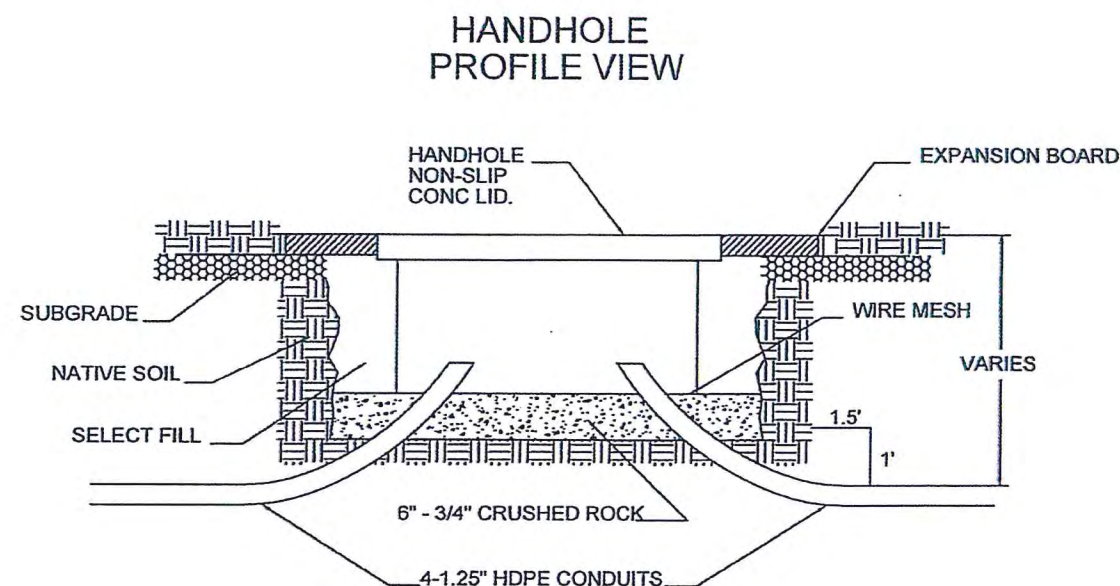
ABBREVIATIONS FOR POLE ATTACHMENTS

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

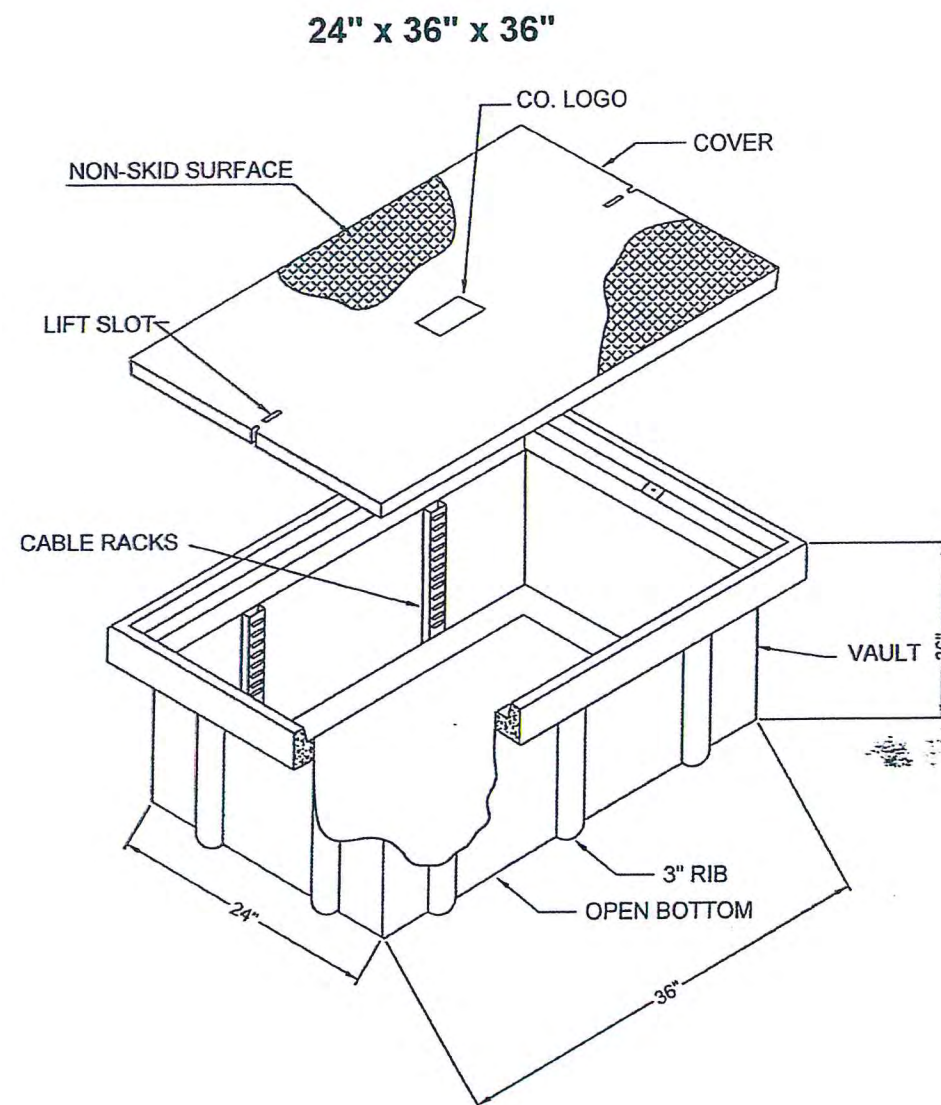
**SOUTHERN LIGHT WILL MAINTAIN 18" FROM EXISTING UTILITIES.
SOUTHERN LIGHT HAS LOCATED ALL EXISTING UTILITIES. AN EXTENSIVE
LOCATE WILL BE PERFORMED PRIOR.**





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



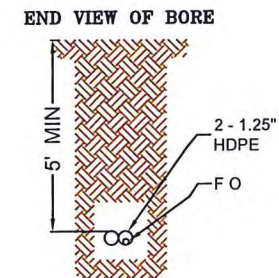
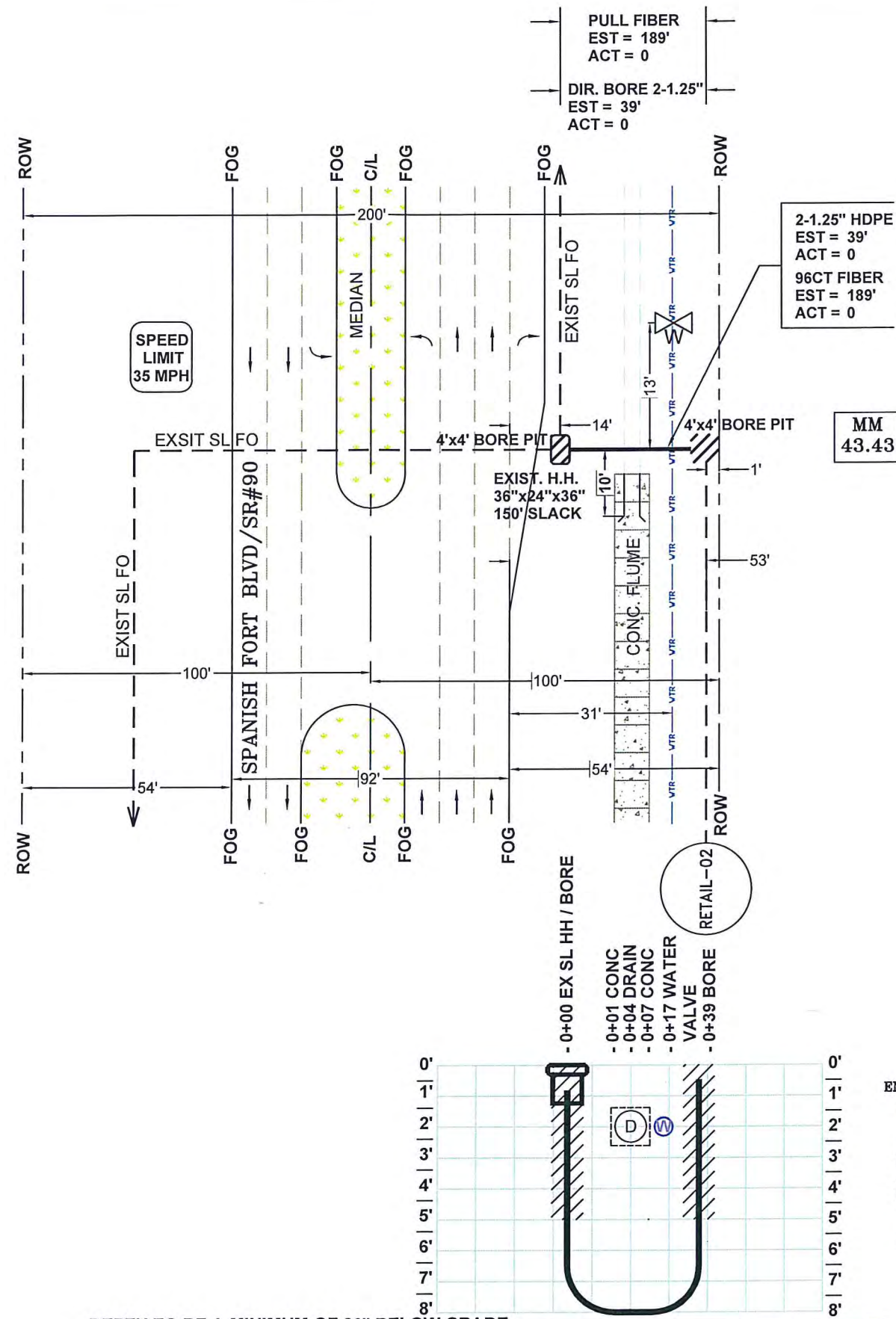
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CONTRACTOR IS RESPONSIBLE FOR ALL LOCATING.
PRIOR TO ANY WORK PERFORMED.
CONTACT SOUTHERN LIGHT: 251-662-1170

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Southern Light

HH SPECS
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. WANDUS
		ROUTE SCHEM.: N/A	SPLICE DWG.: N/A	DWG. NO.: HHSPEC

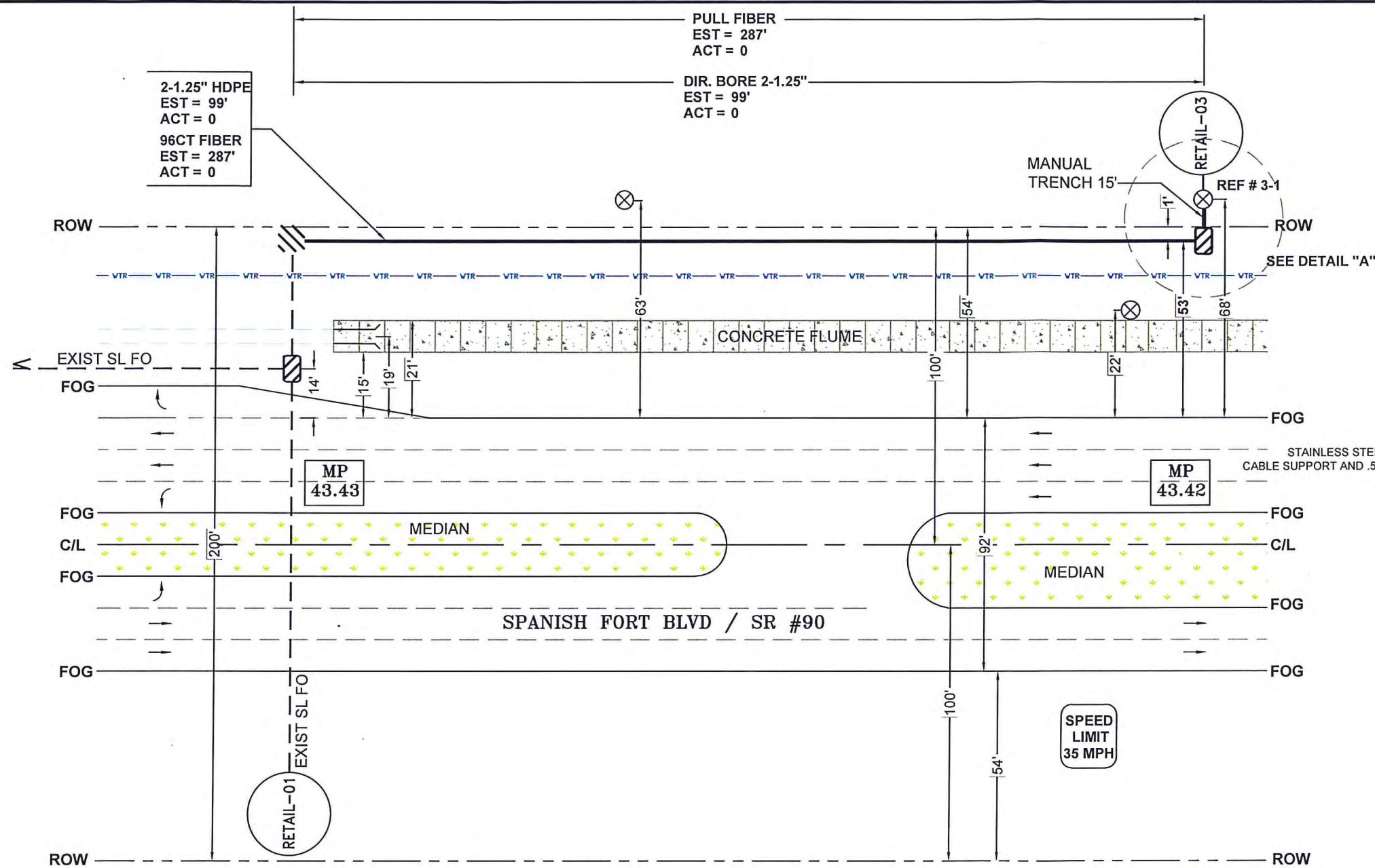


DEPTH TO BE A MINIMUM OF 36" BELOW GRADE

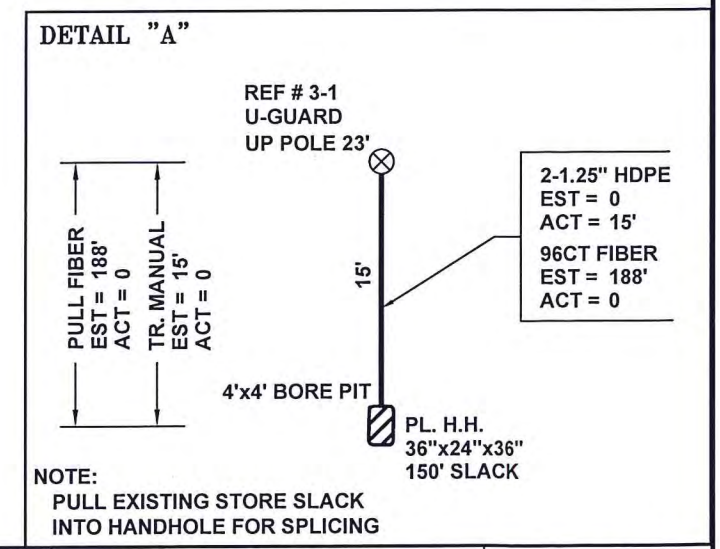
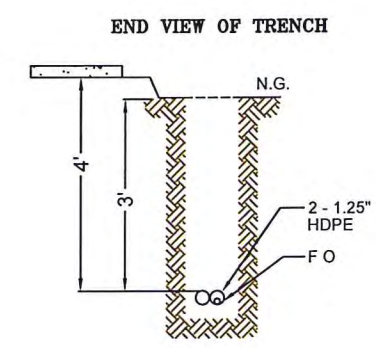
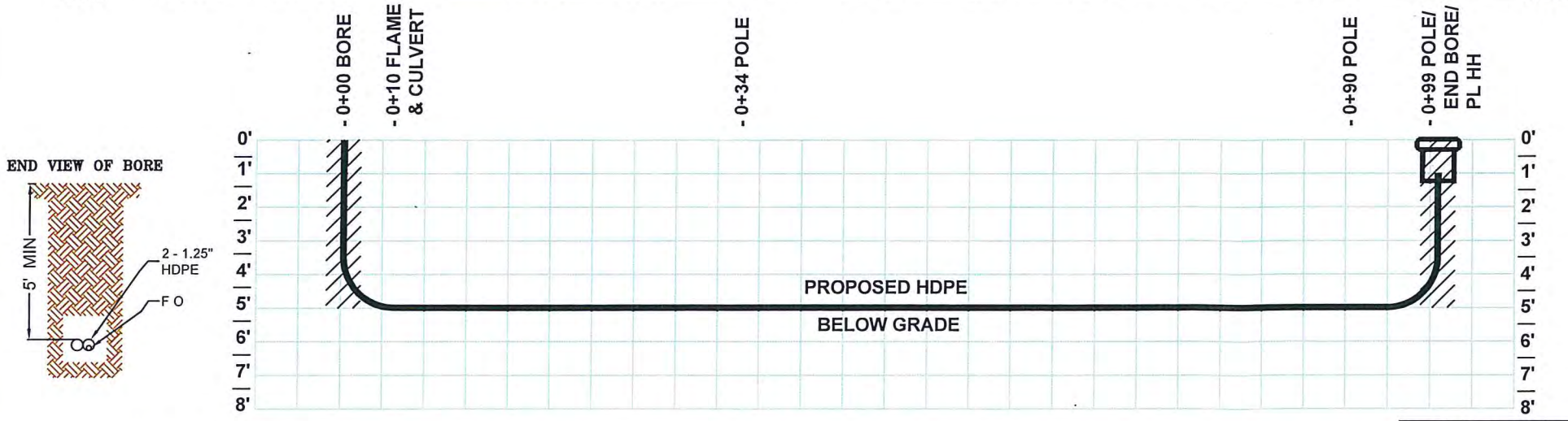
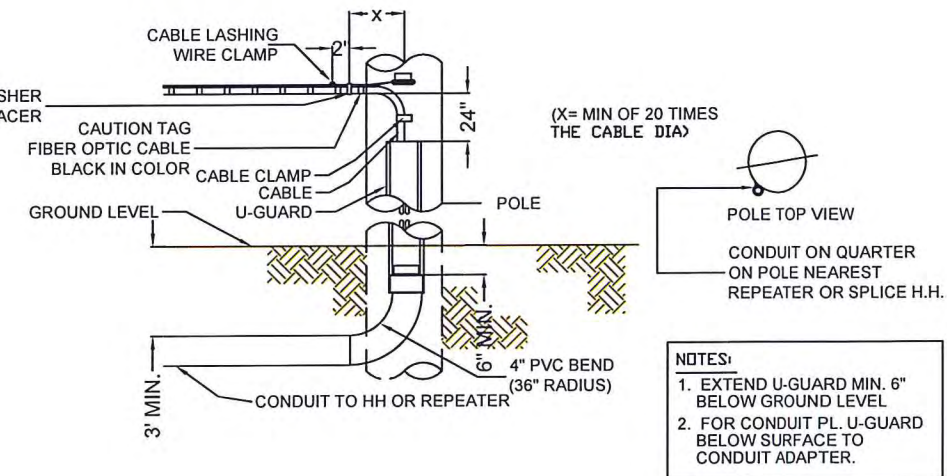


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DATE:	REVISIONS	SCALE: NTS	PROJ. NO.: N/A	DATE: 03/23/16	
		INDEX REF.: SAADHE-CV	ENG: BRANDON WHIGHAM	DRAWN BY: T.W. AUDITOR	
		ROUTE SCHEM.: N/A	SPLICE DWG.: N/A	DWG. NO: SAADHE-01	

UNDERGROUND
ALL CONSTRUCTION IS PROPOSED
SOUTHERN LIGHT WILL MAINTAIN 18" FROM EXISTING UTILITIES.
SOUTHERN LIGHT HAS LOCATED ALL EXISITING UTILITIES.
AN EXTENSIVE LOCATE WILL BE PERFORMED PRIOR TO CONSTRUCTION.



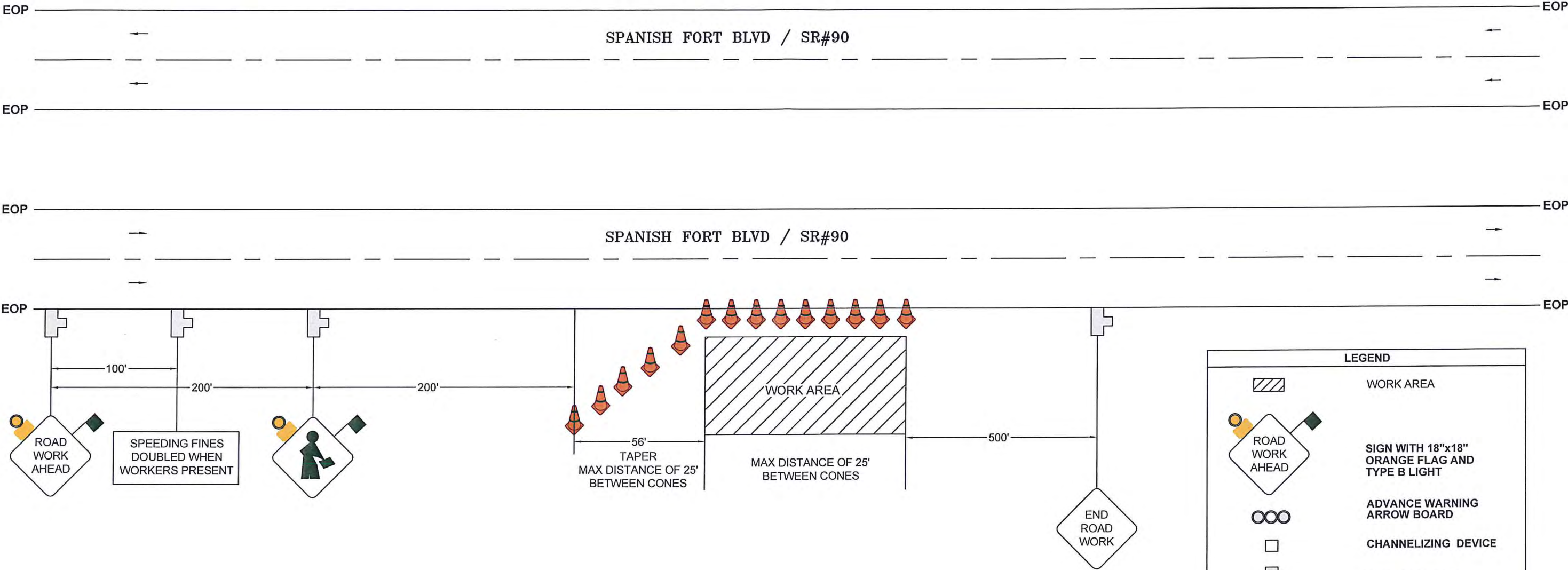
REF #3-1
RIVIERA UTILITIES
P-36255
1 X 50
TRAN - 27' 9"
HL - 26' 3"
S/L @ 22' 11"



UNDERGROUND
ALL CONSTRUCTION IS PROPOSED
SOUTHERN LIGHT WILL MAINTAIN 18" FROM EXISTING UTILITIES.
SOUTHERN LIGHT HAS LOCATED ALL EXISTING UTILITIES.
AN EXTENSIVE LOCATE WILL BE PERFORMED PRIOR TO CONSTRUCTION.



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CONTACT SOUTHERN LIGHT: 251-662-1170					#6450 US HIGHWAY 90 SPANISH FORT, AL	
DATE:	REVISIONS		SCALE: NTS	PROJ. NO.: N/A	DATE: 03/23/16	
			INDEX REF.: SAADHE-CV	ENG: BRANDON WHIGHAM	DRAWN BY: T.W. AUDITOR	
			ROUTE SCHEM.: N/A	SPLICE DWG.: N/A	DWG. NO.: SAADHE-02	



LEGEND

- WORK AREA
- SIGN WITH 18"x18" ORANGE FLAG AND TYPE B LIGHT
- ADVANCE WARNING ARROW BOARD
- CHANNELIZING DEVICE
- WORK ZONE SIGN
- DIRECTION OF TRAFFIC AND LANE IDENTIFICATION
- CONES



ALL UTILITY LOCATIONS SHOWN ARE APPROXIMATE. CONTRACTOR IS RESPONSIBLE FOR ALL LOCATING. PRIOR TO ANY WORK PERFORMED.		INFORMATION IN THIS DOCUMENT IS PROPRIETARY AND SHALL NOT BE USED, COPIED, REPRODUCED OR DISCLOSED IN WHOLE OR IN PART WITHOUT WRITTEN CONSENT OF Southern Light.	<div>Southern Light</div>		SAAD HEALTHCARE SPANISH FORT DETAIL #6450 US HIGHWAY 90 SPANISH FORT, AL		
DATE:	REVISIONS				SCALE: NTS	PROJ. NO.: N/A	DATE: 03/23/16
					INDEX REF.: SAADHE-CV	ENG: BRANDON WHIGHAM	DRAWN BY: T.W. AUDITOR
					ROUTE SCHEM.: N/A	SPICE DWG.: N/A	DWG. NO: SAADHE-TCP