



April 27, 2022

**RE: Addendum No. 1
Canal Road Improvements from SR-161 to Wilson Blvd**

TO ALL BIDDERS ON THE ABOVE REFERENCED PROJECT:

In response to questions and comments received by Thompson Engineering, Inc., and the City of Orange Beach, the plans, contract documents and specifications for the above referenced project are hereby revised as follows:

1. Contract Documents and Specifications
 - I. Under **Section I – Invitation to Bid**, revise the deadline for sealed bids and the bid opening date to May 5, 2022, at 11:00 AM Central Time.
 - II. Under **Section III – Bid Form**, replace pages 1-5 of 5 of the bid forms with revised forms to include the following:
 - i. Remove pay item 424A-336 Superpave Bituminous Concrete Wearing Surface Layer, 3/8" Maximum Aggregate Size Mix, ESAL Range A/B, listed on Line Item 24 and replace with pay item 424A-340 Superpave Bituminous Concrete Wearing Surface Layer, 1/2" Maximum Aggregate Size Mix, ESAL Range A/B.
 - ii. Remove pay item 703C-001 Removal of Existing Traffic Control Markings or Legends (Plastic), listed on Line Item 108, from the Bid Form.
 - iii. Add pay item 999A-000 Work of Similar Nature Utilizing Bid Items and Unit Prices to be Determined by Engineer with a lump sum unit price set by the engineer at \$250,000.00.
 - III. Under **Section VIII – Supplemental Specifications**, insert Supplemental Specification No. 999-18. A copy of this supplemental specification is attached.
2. Plans
 - I. On Sheet 2-J, add pay item 424A-340 Superpave Bituminous Concrete Wearing Surface Layer, 1/2" Maximum Aggregate Size Mix, ESAL Range A/B, to the Required Materials Legend.
 - II. On Sheet 2-O, revise Structural Project Note 10.11 to remove a requirement for Ogee washers and replace with a requirement for square washers.
 - III. On Sheet 3, remove pay item 424A-336 Superpave Bituminous Concrete Wearing Surface Layer, 3/8" Maximum Aggregate Size Mix, ESAL Range A/B, and replace with pay item 424A-340 Superpave Bituminous Concrete Wearing Surface Layer, 1/2" Maximum Aggregate Size Mix, ESAL Range A/B.

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- IV. On Sheet 15, modify the Drawing Notes to include an alternate for round piles and to add a Round Pile-Stringer Connection Detail for this alternate.
- V. On Sheet 16, modify the Drawing Notes to include an alternate for round piles, modify Section A to specify 5/8" diameter bolts with square washers for guardrail posts and include a blocking detail with Simpson HTT4 ties, modify Section A to specify using square washers with the 1" diameter bolts on the pile-stringer connections, modify Section A to specify the spacing on the 2x8 horizontal boards on the guardrail as 11 1/4" O.C instead of 5" O.C., and modify the Connection Notes 1-4 on Section A.
- VI. Add the following sheets:
 - i. Sheets 3-B, 3-C, and 3-D Summary of Quantities box sheets.

The following contractor questions have been received and are answered as follows:

1. Is there a bracket estimate for this project?
The bracket estimate for the project is \$4,200,000 to \$5,000,000.
2. What documentation must be provided with bids regarding MBE/WBE requirements in subcontracting?

Documentation of compliance with MBE/WBE requirements is a matter of contractor responsibility. When subcontracting, the contractor must submit documentation of good faith efforts to meet the project's MBE/WBE requirements before contracted work can commence. MBE/WBE requirements and required documentation can be found in the Required Attachments for RESTORE Oil Spill Impact Component Construction Contracts (See Section V). Failure on the part of the contractor to submit proper documentation may cause the City not to execute or to terminate the contract.

Before the Notice of Award can be issued, the lowest responsive and responsible bidder will be required to submit either:

- **A written certification that no subcontracts will be issued, or**
- **The Subcontractor Listing Form detailing all subcontractors that will perform work on the project.**

If subcontractors will be utilized, additional documentation as outlined in the "Contracting with Small and Minority Business, Women's Business Enterprises, and Labor Surplus Area Firms" section found in the Required Attachments for RESTORE Oil Spill Impact Component Construction Contracts (See Section V) will be required.

3. Are certified payrolls required on this RESTORE project?
The contractor or subcontractor shall comply with the Contract Work Hours and Safety Standards Act. This includes maintaining payrolls and basic payroll records during the

course of the work and preserving them for a period of three years from the completion of the contract for all laborers and mechanics working on the contract.

Additional requirements are listed in Article 5 – Contract Work Hours and Safety Standards Act found in Section VI of the Contract Documents.

4. What utilities are in conflict on this project?

Multiple utility coordination meetings have been held on this project and multiple conflicts have been identified. A summary of each known utility, and known conflicts, is as follows:

- **Orange Beach Water Authority**
 - Multiple major conflicts with water mains have been identified and relocations have been designed and are currently under construction. Construction is scheduled to be completed by this summer. A copy of the relocation plans and schedule can be requested from OBWA.
- **CMC Gas**
 - Multiple minor conflicts with gas mains have been identified but will not be relocated until road construction progresses to the affected areas. CMC Gas has committed to relocating the gas lines when needed during construction after the exact conflicts are identified by the contractor.
- **Orange Beach Sewer**
 - Minor conflicts with gravity sewer lines have been identified. Manhole modifications will be required on the gravity sewer lines located between SR-161 and Bay Circle and have been included in this project to be performed by the contractor.
 - No major conflicts with pressure sewer lines have been identified. Orange Beach Sewer will be on standby to respond immediately should any unforeseen conflicts arise.
- **Lumen (formerly CenturyLink)**
 - Conflicts have been identified at major drainage crossings and road widenings. Relocations have been designed but awaiting construction by Lumen. A copy of the relocation plans and schedule can be requested from Lumen.
- **Uniti Fiber**
 - No major conflicts have been identified. Uniti Fiber will need to be notified if any conflicts are encountered.
- **C Spire (formerly Harbor Communications)**
 - No major conflicts have been identified. C Spire will need to be notified if any conflicts are encountered.
- **Verizon**

- Two new fiber conduit lines were recently permitted and installed on both sides of Canal Rd between SR-161 and Walker Lane. The permitted plans showed the conduits being installed to a depth of 3' at an offset of 5' inside present ROW. The as-built location is unknown, but a copy of the permitted plans can be requested from the City. Verizon will need to be notified if any conflicts are encountered.
- **Mediacom**
 - No conflicts identified. Mediacom states that their lines are aerial lines on poles. If any poles are in conflict, Mediacom will need to be notified.
 - **Power South**
 - No conflicts identified, but part of the trail construction utilizes an easement across Power South property near the Justice Center.
 - **Baldwin EMC**
 - No conflicts with existing overhead electric poles have been identified.
 - No conflicts with buried electric have been identified, but they are expected to be likely between SR-161 and the roundabout. Baldwin EMC will need to be notified if any conflicts are encountered.
 - There is a buried electric vault on the Power South property near the Justice Center that will need to be raised as part of the trail construction within the easement on this property. Baldwin EMC has been made aware of the conflict and has agreed to raise the lid on the concrete vault to match the required grading near the trail.
5. Will alternates be allowed to be used in place of the reinforced concrete pipe for stormwater piping?
No alternates will be allowed when submitting a bid.
6. What are the limitations on temporary lane closures?
The traffic control scheme and construction phasing must always maintain two-way traffic operations, with one lane in each direction. Temporary lane closures will be allowed for short timeframes as needed for major construction items. No temporary lane closures will be allowed between the hours of 7:00-8:00 AM and 2:00-3:30 PM when schools are open.
7. What are the limitations on the construction on the library parking lot and access improvements?
The traffic control scheme and construction phasing must always maintain access to the Orange Beach Senior Activity Center and Public Library Parking lot. The Sequence of Construction requires the roundabout, new access roads and parking lot improvements to be constructed prior to removing the existing driveway.

8. How should pedestrians and bicycles be accommodated during construction?
The Sequence of Construction addresses pedestrian and bicycle traffic during construction as follows:

- **Keep existing sidewalks and crosswalks open, with temporary closures allowed as approved by the City or Engineer, until the required sidewalk around the south portion of the roundabout and the trail connection between Callaway Dr and Canal Rd is constructed (Phase III-A).**
- **Install temporary crosswalk near Sta 682+95, shift pedestrian and bicycle traffic to the new sidewalk and trail connection and close the existing sidewalk on Canal Rd between Callaway Dr and Sta 682+95 (Phase III-B).**
- **Install new sidewalks and trail connections between SR-161 and Sta 687+00, with temporary closures allowed as approved by the City or Engineer, and open to pedestrian and bicycle traffic once complete (Phase III-B).**
- **Complete the construction of the median, roundabout, and crosswalks between SR-161 and Sta 686+00 and open all new crosswalks to pedestrian and bicycle traffic (Phase IV).**
- **Close the existing sidewalk on the north side of Canal Rd between Sta 687+50 and Wilson Blvd to pedestrian and bicycle traffic, remove the remaining portions of existing sidewalk, and replace with the required trail and open new trail and crosswalks to pedestrian and bicycle traffic (Phase V-B).**

9. Regarding the timber boardwalk, can round pilings be used in lieu of the 10" square piling specified on the plans?

The plans have been revised to allow an alternate round pile type to be used in lieu of the 10" square piling. See Sheets 15 and 16 attached for plan revisions.

10. The notes on Sheet 16 refer to the use of 2x4's and 2x2's. Where are those required?

The notes have been revised to match the plans and details. See Sheet 16 attached for plan revisions.

11. What is the pavement buildup for the parking lot improvements near the library?

The pavement buildup for the parking lot improvements shall be as follows:

- **Pay Item 424A-340 Superpave Bituminous Concrete Wearing Surface Layer, 1/2" Maximum Aggregate Size Mix, ESAL Range A/B (220 LBS/SY)**
- **Pay Item 401A-000 Bituminous Treatment A**
- **Pay Item 301A-008 Crushed Aggregate Base Course, Type B, Plant Mixed, 5" Compacted Thickness (Extend 6" Beyond Overlying Binder Layer)**
- **Pay Item 230A-000 Roadbed Processing**

12. What is the pavement buildup for the trail connection between Callaway Dr and Canal Rd?

The pavement buildup for the trail connection shall match the buildup of the 10' multi-use trail shown on Sheets 2-F through 2-J and shall be constructed to the grades shown on the cross sections on Sheets 190 through 193.

13. What are the section details for the required curbs around truck aprons?

The concrete curb around truck aprons, identified on the Typical Section Sheets 2-C and 2-D as 623B-151 Concrete Curb, Type Truck Apron, and on Paving Layout Sheet 22 as Mountable Curb, Type 1, shall be mountable curb Type M-10 as shown in ALDOT Standard Drawing Index No. 62310 and paid for under Pay Item 623B-151.

14. The Summary of Quantities, Sheet 3, and the Bid Form, Line Item 24, both list pay item 424A-336 Superpave Bituminous Concrete Wearing Surface Layer, 3/8" Maximum Aggregate Size Mix, ESAL Range A/B, but that pay item is not shown anywhere on the plans. Also, pay item 424A-340 Superpave Bituminous Concrete Wearing Surface Layer, 1/2" Maximum Aggregate Size Mix, ESAL Range A/B, is shown on the Typical Sections for use on the multi-use trail, but is not shown anywhere on the Summary of Quantities or Bid Form. Which pay items are required by the plans?

Pay item 424A-336 Superpave Bituminous Concrete Wearing Surface Layer, 3/8" Maximum Aggregate Size Mix, ESAL Range A/B, should be removed from the Summary of Quantities and Bid Form and replaced with 424A-340 Superpave Bituminous Concrete Wearing Surface Layer, 1/2" Maximum Aggregate Size Mix, ESAL Range A/B, as shown on the typical sections. See attached Sheets 2-J and 3 for plan revisions and Bid Form Page 1 of 5 for bid document revisions.

15. The Bid Form, Line Item 108, list pay item 703C-001 Removal of Existing Traffic Control Markings or Legends (Plastic) with a quantity of 0.00. This item is not apparent in the plans. Should this have a quantity associated with it or should it be removed from the plans?

Remove pay item 703C-001 Removal of Existing Traffic Control Markings or Legends (Plastic) from the Bid Forms. See attached for revised Bid Forms.

16. The sequence of construction requires profile grade corrections to be performed on Canal Rd between Sta 670+00 and 686+00 utilizing planing and leveling prior to the widening and installing cross drains. Can other items of work be performed prior to performing profile grade corrections?

The contractor may elect to install cross drains prior to correcting profile grades if such work will not impede existing stormwater routing or widening operations.

However, profile grade corrections shall be completed prior to widening in order to establish proper profile grade for the proposed widening and to ensure positive

pavement surface drainage for stormwater runoff can be maintained during widening operations.

The contractor, with approval from the City or engineer, may elect to widen the road prior to correcting profile grades at no additional charge to the City. No allowances for additional payment will be made for additional planing, leveling or stormwater routing measures needed for widened areas outside of existing pavement as a result of the contractor electing to widen the road prior to correcting profile grades.

Please find the following items attached:

- A. Pre-Bid Meeting Minutes and Sign-In Sheet
- B. Revised Invitation to Bid
- C. Revised Bid Form Pages 1-5 of 5
- D. Supplemental Specification No. 999-18
- E. New or Revised Construction Plan Sheets 1-A, 2-J, 2-O, 3, 3-B, 3-C, 3-D, 15, and 16
- F. Copy of ADEM General NPDES Permit Number ALR10C1KB and Construction Best Management Practices Plan (CBMPP)
- G. Copy of Approved ALDOT Permit Number 9-2-11949

NOTE: All questions, oral or written, must be submitted to the City or Thompson Engineering by close of business, 5:00 PM, on Monday, May 2, 2022. All questions submitted prior to this deadline will be answered in writing and posted on the City's website, along with any and all addenda, for this bid.

Receipt of this addendum must be acknowledged on the last page of the Bid Form and a copy of this addendum must be included with the Bidder's proposal. If you have any questions about this addendum, please contact the City Clerk or our office.

Sincerely,
THOMPSON ENGINEERING, INC.



Charles Weber, P.E.
Senior Engineer

Enclosures

SIGNED: _____

Name of Bidder

Contractor's Representative

Date



NON-MANDATORY PRE-BID CONFERENCE

Project Number: City Requisition No. 2022-0428
Project Description: Canal Road Improvements from SR-161 to Wilson Blvd
Meeting Date/Time: Thursday, April 14, 2022 at 10:00 AM
Meeting Location: City Hall Municipal Complex
Participants: See attached sign-in sheet

General Meeting Information

1. Attendance to this pre-bid is NOT a mandatory requirement to submitting a bid.
2. Please sign-in using the sheets provided.

Bidding Information

General

1. Sealed bids are due Thursday, April 28, 2022, at 11:00 AM, to the City of Orange Beach by mail at ATTN: City Clerk, PO Box 458, Orange Beach, Alabama 36561, or hand delivered to ATTN: City Clerk, 4099 Orange Beach Blvd, Orange Beach, Alabama 36561.

NOTE: The deadline for sealed bids and the bid opening date has been moved to May 5, 2022.

2. The project consists of RESTORE Grant Project No. GNSSP20AL0006-01-00 State Expenditure Plan #22 Canal Rd Improvements E of SR-161 and City Project Access Improvements and Multi-Use Trail Connections from Callaway Dr to Wilson Blvd. Quantities will be measured separately for each.
3. Minority and women's business enterprises are solicited to bid on this contract as prime contractors and are encouraged to make inquiries regarding potential subcontracting opportunities and equipment, material and/or supply needs.
4. All bidders must make positive efforts to use small and minority owned business and women business enterprises. Documentation of compliance with MBE/WBE requirements is a matter of contractor responsibility. When subcontracting, the contractor must submit documentation of good faith efforts to meet the project's MBE/WBE requirements before contracted work can commence. MBE/WBE requirements and required documentation can be found in the Required Attachments for RESTORE Oil Spill Impact Component Construction Contracts attached herein.

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Failure on the part of the contractor to submit proper documentation may cause the City not to execute or to terminate the contract.

5. No bid documents will be issued later than 24 hours prior to the opening of bids.
6. The bracket estimate for the project is \$4,200,000.00 to \$5,000,000.00.
7. The total amount of work must not exceed the amount of the contractor's qualification certificate.
8. Bidders shall agree to construct the improvements with work completed by a fixed CALENDAR DATE of May 17, 2024.
9. Bids must be submitted on complete original proposals, including any and all addenda, to be considered. Incomplete bid packages will be rejected.
10. Proposals will only be accepted from contractors on the ALDOT list of pre-qualified contractors. The bidder must be on ALDOT's "Bidder's List" in effect at the time of the pre-bid meeting.
11. Any contractor that desires to bid as a prime contractor must have the following major classification of license per Section 230-X-.27 of the State of Alabama Licensing Board for General Contractors Administrative Code before a contract is to be awarded:
 - a) Highways and Streets
12. All bidders must provide documentation of a Dun & Bradstreet (DUNS) number and register with SAM.gov.
13. All bidders must comply with Section 31-13-9, Code of Alabama 1975. Any bidder who employs persons in the State of Alabama must provide proof of enrollment in the E-Verify program along with the bid (see www.uscis.gov/everify).
14. A certified check or Bid Bond payable to the City of Orange Beach in an amount not less than five percent (5%) of the amount of the Bid must accompany the bidder's proposal.
15. Prior to beginning work, the contractor shall obtain a City of Orange Beach Business License in order to operate within the Corporate Limits.
16. All questions, oral or written, must be submitted to the City or Thompson Engineering by close of business, 5:00 PM, on Monday, ~~April 25, 2022~~. All questions submitted prior to this deadline will be answered in writing and posted on the City's website, along with any and all addenda, for this bid.

NOTE: The deadline for questions has been moved to May 2, 2022.

Contractor Questions/Clarifications (see Addendum No. 1 for responses)

1. What documentation must be provided with bids regarding MBE/WBE requirements in subcontracting?

Technical Project Information

Specifications

1. The specifications to be used for this project will be the ALDOT Standard Specifications for Highway Construction, 2018 edition, subject to any amendments set forth in the Special Provisions or the Supplemental Specifications.
2. This project is composed of two project numbers and corresponding summary of quantities, based on funding sources for each:
 - a. RESTORE Grant Project No. GNSSP20AL0006-01-00 State Expenditure Plan #22 Canal Rd Improvements E of SR-161
 - b. City Project Access Improvements and Multi-Use Trail Connections from Callaway Dr to Wilson Blvd
3. The City has submitted a Notice of Intent with ADEM, but the contractor will be responsible for installation and maintenance of all BMP's. A copy of the CBMPP is available through the City prior to bidding.
4. A copy of the Materials Report and any addenda to the report are available through the City prior to bidding.

Construction Phasing and Traffic Control

1. The traffic control scheme and construction phasing must always maintain two-way traffic operations, with one lane in each direction. Temporary lane closures will be allowed for short timeframes as needed for major construction items. No temporary lane closures will be allowed between the hours of 7:00-8:00 AM and 2:00-3:30 PM when schools are open.
2. The sequence of construction requires work to be completed in two distinctly separate phases to attempt to complete construction of the road widening and roundabout up to Sta 686+00 before Summer 2023.
 - a. The first phase (Phases I-IV on Sheet 100) is for the construction Canal Rd, through the wearing surface layer, between SR-161 and Sta 686+00. This includes constructing the trail connection from Callaway Dr to Canal Rd and the north access and parking lot improvements at the library and senior center.
 - b. The second phase (Phases V-VII on Sheet 100) is for the remaining construction of Canal Rd and the multi-use path between Sta 686+00 to Wilson Blvd.
3. The sequence of construction requires Canal Rd to be planed and leveled to meet cross slope and profile grade requirements between Sta 670+00 and Sta 686+00 prior to any widening being performed. ***NOTE: The contractor may elect to widen the road prior to correcting profile grades. However, no allowances for additional payment will be made for planing or leveling needed on areas of new pavement widened because of widening prior to correcting profile grades. In addition, positive pavement surface drainage for stormwater runoff must be maintained on existing pavement at all times during construction. No allowances for***

additional payment will be made as a result of the contractor electing to widen the road prior to correcting profile grades.

4. The City requests that all complaints and comments from the public be forwarded to Kit Alexander, Director of Community Development.
5. Construction laydown areas will be made available to the contractor on various City owned properties located along the project. No private property may be used for construction equipment, material storage, etc., without getting written approval first.

Timber Boardwalk Requirements

1. The contractor shall submit Wood Treatment Records for the engineer's review.
2. All timber piles shall be treated in accordance with American Wood Protection Association (AWPA) Standard UC4B to 0.6 PCF CCA for heavy duty ground contact foundation systems.
3. All above ground pressure treated lumber shall be pressure treated in accordance with AWPA Standard UC4B to 0.25 PCF alkaline copper quaternary (ACQ) or micronized copper azole (MCA).

Contractor Questions/Clarifications (see Addendum No. 1 for responses)

1. Are certified payrolls required on this RESTORE project?
2. What utilities are in conflict on this project?
3. Will alternates be allowed to be used in place of the reinforced concrete pipe for stormwater piping?
4. What are the limitations on temporary lane closures? What are the limitations on the construction needed on the library parking lot and access improvements?
5. How should pedestrians and bicycles be accommodated during construction?

City of Orange Beach

A L A B A M A
Life is better here

PRE-BID CONFERENCE SIGN-IN SHEET

Date & Time: April 14, 2022 @ 10:00 AM
 Location: Orange Beach City Hall
 Project: Canal Road Improvements East of SR-161
 Access Improvements and Multi-Use Trail Connections from Callaway Drive to Wilson Boulevard
 Project No: 2022-0428

Name	Company	Contact Information (Email/Phone/Fax)
Jay Davison	Thompson Engineering	jdavison@thompsonengineering.com 251-327-7122
Shaun Shugart	Mobile Asphalt Co.	sshugart@mobileasphalt.com 251-408-0770
KEN DONOGHUE	H.O. WEAVER & SONS, INC.	KDONOGHUE@HOSEAWEAVER.COM 251-342-5025
Kellie Thornton	L & K Const.	leethornton80@yahoo.com 251-583-5191
Scott Stapleton	JGW	Scott@johnswalton.com 251-487-6999
Drew Windham	McElhenney Const	drew@mcElhenneyconst.com 228-217-7761
Shaun Stapleton	John G. Walton Const	shaun@johnswalton.com 251-342-6250
Rob Middleton	Middleton Const.	rob@rm-const.com 251-661-1637
Tim Tuck	COB	ttuck@orangebeachal.gov 251-747-1599
KAT ALEXANDER	ORANGE BEACH	(251) 747-1614 kalexander@orangebeachal.gov
Charles Weber	Thompson	(251) 752-2073 cweber@thompsonengineering.com

Any changes resulting from this conference will be issued in a written addendum to the solicitation and posted on



INVITATION TO BID

Requisition No. 2022-0428

- INVITATION TO BID DATE:** March 21, 2022
- BID TITLE:** Canal Road Improvements from SR-161 to Wilson Blvd
- PLACE OF BID OPENING:** City of Orange Beach, City Hall, 4099 Orange Beach Blvd
- BIDS MUST BE RECEIVED BEFORE:** April 28 May 5, 2022 @ 11:00 a.m. Central Time
- BIDS WILL BE PUBLICLY OPENED:** April 28 May 5, 2022 @ 11:00 a.m. Central Time

Sealed bids will be received by the City of Orange Beach at the Office of the City Clerk in Orange Beach until the above time and date at which time they will be publicly opened and read aloud as soon thereafter as practicable.

NOTE: For this bid to be considered responsive, all information in this section should be supplied, as appropriate, or the entire bid may be disqualified. Bid response must be in ink or typed with original signature. If you are unable to furnish an item as specified and desire to offer a substitute, give full description of the item. No errors will be corrected after bids are opened. No prices shall include State or Federal Excise Taxes. The City of Orange Beach reserves the right to accept or reject all bids or any portion thereof. The City reserves the right to require a bid bond, in which case specific information shall be provided in the documents.

ALL BIDS MUST BE RETURNED AS FOLLOWS:

All bidders must use the bid form provided in the bid documents and show on the envelope “SEALED BID”, the bidder’s name, the name of the bid, and the opening date and time. Each bid must be in a separate envelope. Sealed bids may be mailed or delivered to the City of Orange Beach at the following addresses.

US Postal Service

City of Orange Beach
Attn: Sealed Bid for Canal Road Improvements
from SR-161 to Wilson Blvd
P.O. Box 458
Orange Beach, AL 36561

Courier (UPS, FEDEX, etc.)

City of Orange Beach
Attn: Sealed Bid for Canal Road Improvements
from SR-161 to Wilson Blvd
4099 Orange Beach Blvd.
Orange Beach, AL 36561

Contact **Kit Alexander** at **251-981-2616** or **Tim Tucker** at **251-747-1599** for questions concerning technical specifications. Contact **Renee Eberly** at **251-981-6979** for questions concerning technical specifications or general bid procedures.

REVISION NO. 1 – ISSUED FOR BID

LINE NO.	ITEM NO.	DESCRIPTION	RESTORE GRANT QUANTITY	CITY PROJECT QUANTITY	TOTAL QUANTITY	UNIT	UNIT PRICE	AMOUNT BID
BASE BID:								
1	201A-002	CLEARING AND GRUBBING (MAXIMUM ALLOWABLE BID \$ 8,000 PER ACRE) (APPROXIMATELY 12.0 ACRES)	0.8	0.2	1	LUMP SUM	\$	\$
2	206C-000	REMOVING CONCRETE SIDEWALK	2630	1091	3721	SQUARE YARD	\$	\$
3	206C-010	REMOVING CONCRETE DRIVEWAY	285	17	302	SQUARE YARD	\$	\$
4	206C-017	REMOVING CONCRETE PAD	0	17	17	SQUARE YARD	\$	\$
5	206D-000	REMOVING PIPE	2705	0	2705	LINEAR FOOT	\$	\$
6	206D-002	REMOVING CURB	189	936	1125	LINEAR FOOT	\$	\$
7	206D-003	REMOVING CURB AND GUTTER	83	44	127	LINEAR FOOT	\$	\$
8	206D-011	REMOVING FENCE	0	303	303	LINEAR FOOT	\$	\$
9	206E-000	REMOVING HEADWALLS	47	0	47	EACH	\$	\$
10	206E-002	REMOVING JUNCTION BOXES	2	0	2	EACH	\$	\$
11	209A-000	MAILBOX RESET, SINGLE	16	0	16	EACH	\$	\$
12	209A-002	MAILBOX RESET, MULTIPLE	2	0	2	EACH	\$	\$
13	210A-000	UNCLASSIFIED EXCAVATION	4556	2421	6977	CUBIC YARD	\$	\$
14	210D-020	BORROW EXCAVATION (LOOSE TRUCKBED MEASUREMENT)(A2 OR BETTER)	10932	4190	15122	CUBIC YARD	\$	\$
15	214A-000	STRUCTURE EXCAVATION	1636	664	2300	CUBIC YARD	\$	\$
16	214B-001	FOUNDATION BACKFILL, COMMERCIAL	677	261	938	CUBIC YARD	\$	\$
17	230A-000	ROADBED PROCESSING	70	0	70	ROADBED STATION	\$	\$
18	301A-008	CRUSHED AGGREGATE BASE COURSE, TYPE B, PLANT MIXED, 5" COMPACTED THICKNESS	4800	4565	9365	SQUARE YARD	\$	\$
19	301A-012	CRUSHED AGGREGATE BASE COURSE, TYPE B, PLANT MIXED, 6" COMPACTED THICKNESS	16307	0	16307	SQUARE YARD	\$	\$
20	401A-000	BITUMINOUS TREATMENT A	21106	4565	25671	SQUARE YARD	\$	\$
21	405A-000	TACK COAT	6440	758	7198	GALLON	\$	\$
22	408A-052	PLANING EXISTING PAVEMENT (APPROXIMATELY 1.10" THRU 2.0" THICK)	8858	3439	12297	SQUARE YARD	\$	\$
23	410H-000	MATERIAL REMIXING DEVICE	1	0	1	EACH	\$	\$
24	424A-340	SUPERPAVE BITUMINOUS CONCRETE WEARING SURFACE LAYER, 1/2" MAXIMUM AGGREGATE SIZE MIX, ESAL RANGE A/B	500	306	806	TON	\$	\$
25	424A-360	SUPERPAVE BITUMINOUS CONCRETE WEARING SURFACE LAYER, 1/2" MAXIMUM AGGREGATE SIZE MIX, ESAL RANGE C/D	4657	490	5147	TON	\$	\$
26	424B-651	SUPERPAVE BITUMINOUS CONCRETE UPPER BINDER LAYER, 1" MAXIMUM AGGREGATE SIZE MIX, ESAL RANGE C/D	1852	217	2069	TON	\$	\$
27	424B-655	SUPERPAVE BITUMINOUS CONCRETE UPPER BINDER LAYER, PATCHING, 1" MAXIMUM AGGREGATE SIZE MIX, ESAL RANGE C/D	251	12	263	TON	\$	\$

REVISION NO. 1 – ISSUED FOR BID

LINE NO.	ITEM NO.	DESCRIPTION	RESTORE GRANT QUANTITY	CITY PROJECT QUANTITY	TOTAL QUANTITY	UNIT	UNIT PRICE	AMOUNT BID
28	424B-657	SUPERPAVE BITUMINOUS CONCRETE UPPER BINDER LAYER, LEVELING, 1/2" MAXIMUM AGGREGATE SIZE MIX, ESAL RANGE C/D	996	0	996	TON	\$	\$
29	424B-681	SUPERPAVE BITUMINOUS CONCRETE LOWER BINDER LAYER, 1" MAXIMUM AGGREGATE SIZE MIX, ESAL RANGE C/D	1930	0	1930	TON	\$	\$
30	430B-040	AGGREGATE SURFACING (CRUSHED AGGREGATE BASE, TYPE B)	1698	500	2198	TON	\$	\$
31	450A-006	REINFORCED CEMENT CONCRETE PAVEMENT, 10 INCHES THICK	664	0	664	SQUARE YARD	\$	\$
32	516D-000	PEDESTRIAN BRIDGE	1	0	1	LUMP SUM		
33	530A-001	18" ROADWAY PIPE (CLASS 3 R.C.)	218	18	236	LINEAR FOOT	\$	\$
34	530B-014	36" SPAN, 23" RISE ROADWAY PIPE (CLASS 3 R.C.) (EXTENSION)	0	18	18	LINEAR FOOT	\$	\$
35	532A-030	12" SLOTTED DRAIN PIPE	0	40	40	LINEAR FOOT	\$	\$
36	532A-032	18" SLOTTED DRAIN PIPE	100	60	160	LINEAR FOOT	\$	\$
37	533A-855	12" STORM SEWER PIPE	0	125	125	LINEAR FOOT	\$	\$
38	533A-097	15" STORM SEWER PIPE (CLASS 3 R.C.)	0	24	24	LINEAR FOOT	\$	\$
39	533A-098	18" STORM SEWER PIPE (CLASS 3 R.C.)	1546	90	1636	LINEAR FOOT	\$	\$
40	533A-099	24" STORM SEWER PIPE (CLASS 3 R.C.)	577	864	1441	LINEAR FOOT	\$	\$
41	533A-900	4" STORM SEWER PIPE (PVC)	22	0	22	LINEAR FOOT	\$	\$
42	533B-099	29" SPAN, 18" RISE STORM SEWER PIPE (CLASS 3 R.C.)	152	0	152	LINEAR FOOT	\$	\$
43	533B-100	36" SPAN, 23" RISE STORM SEWER PIPE (CLASS 3 R.C.)	13	0	13	LINEAR FOOT	\$	\$
44	535B-088	22" SPAN, 14" RISE SIDE DRAIN PIPE (CLASS 3 R.C.)	904	0	904	LINEAR FOOT	\$	\$
45	535B-090	18" SPAN, 11" RISE SIDE DRAIN PIPE (CLASS 3 R.C.)	56	0	56	LINEAR FOOT	\$	\$
46	535B-091	29" SPAN, 18" RISE SIDE DRAIN PIPE (CLASS 3 R.C.)	1532	0	1532	LINEAR FOOT	\$	\$
47	600A-000	MOBILIZATION	1	0	1	LUMP SUM	\$	\$
48	602A-000	RIGHT OF WAY MARKERS	9	0	9	EACH	\$	\$
49	608A-000	SEPARATION GEOTEXTILE	4800	4565	9365	SQUARE YARD	\$	\$
50	610A-004	LOOSE RIPRAP, CLASS 2, 24" THICK	0	11	11	SQUARE YARD	\$	\$
51	610D-003	FILTER BLANKET, GEOTEXTILE	0	16	16	SQUARE YARD	\$	\$
52	614A-000	SLOPE PAVING	1	0	1	CUBIC YARD	\$	\$
53	618A-000	CONCRETE SIDEWALK, 4" THICK	578	76	654	SQUARE YARD	\$	\$
54	618A-001	CONCRETE SIDEWALK, 6" THICK	1121	222	1343	SQUARE YARD	\$	\$
55	618B-003	CONCRETE DRIVEWAY, 6" THICK (INCLUDES WIRE MESH)	452	0	452	SQUARE YARD	\$	\$
56	618C-002	DIRECTIONAL TACTILE WARNING SURFACE INDICATORS	56	0	56	SQUARE FOOT	\$	\$

REVISION NO. 1 – ISSUED FOR BID

LINE NO.	ITEM NO.	DESCRIPTION	RESTORE GRANT QUANTITY	CITY PROJECT QUANTITY	TOTAL QUANTITY	UNIT	UNIT PRICE	AMOUNT BID
57	618D-000	CURB RAMP	375	97	472	SQUARE YARD	\$	\$
58	619A-000	12" ROADWAY PIPE END TREATMENT, CLASS 1	0	1	1	EACH	\$	\$
59	619A-001	15" ROADWAY PIPE END TREATMENT, CLASS 1	0	1	1	EACH	\$	\$
60	619A-002	18" ROADWAY PIPE END TREATMENT, CLASS 1	5	0	5	EACH	\$	\$
61	619A-101	18" SIDE DRAIN PIPE END TREATMENT, CLASS 1	5	1	6	EACH	\$	\$
62	619A-202	24" ROADWAY PIPE END TREATMENT, CLASS 1 (DOUBLE LINE)	0	1	1	EACH	\$	\$
63	619B-018	36" SPAN, 23" RISE ROADWAY PIPE END TREATMENT, CLASS 1	0	1	1	EACH	\$	\$
64	619B-115	18" SPAN, 11" RISE SIDE DRAIN PIPE END TREATMENT, CLASS 1	2	0	2	EACH	\$	\$
65	619B-116	22" SPAN, 14" RISE SIDE DRAIN PIPE END TREATMENT, CLASS 1	30	0	30	EACH	\$	\$
66	619B-117	29" SPAN, 18" RISE SIDE DRAIN PIPE END TREATMENT, CLASS 1	38	0	38	EACH	\$	\$
67	619B-267	29" SPAN, 18" RISE ROADWAY PIPE END TREATMENT, CLASS 1 (DOUBLE LINE)	1	0	1	EACH	\$	\$
68	620A-000	MINOR STRUCTURE CONCRETE	1	1	2	CUBIC YARD	\$	\$
69	621A-011	JUNCTION BOXES, TYPE 1 OR 1P	37	0	37	EACH	\$	\$
70	621A-019	JUNCTION BOXES, TYPE 1 OR 2P	2	0	2	EACH	\$	\$
71	621C-140	INLETS, OPEN THROAT	4	0	4	EACH	\$	\$
72	621E-004	MANHOLES, TYPE L OR M (STORM)	3	2	5	EACH	\$	\$
73	621H-001	INLET TOPS, CURB & GUTTER	24	0	24	EACH	\$	\$
74	621H-002	INLET TOPS, CURB & GUTTER (DOUBLE)	7	0	7	EACH	\$	\$
75	621H-003	INLET TOPS, GUTTER	3	0	3	EACH	\$	\$
76	623A-000	CONCRETE GUTTER	368	0	368	LINEAR FOOT	\$	\$
77	623B-000	CONCRETE CURB, TYPE N	2209	897	3106	LINEAR FOOT	\$	\$
78	623B-001	CONCRETE CURB, TYPE N SPECIAL	208	0	208	LINEAR FOOT	\$	\$
79	623B-150	CONCRETE CURB, TYPE RIBBON	242	0	242	LINEAR FOOT	\$	\$
80	623B-151	CONCRETE CURB, TYPE TRUCK APRON	633	0	633	LINEAR FOOT	\$	\$
81	623C-000	COMBINATION CURB & GUTTER, TYPE C	1599	102	1701	LINEAR FOOT	\$	\$
82	623C-003	COMBINATION CURB & GUTTER, TYPE C (MODIFIED)	22	0	22	LINEAR FOOT	\$	\$
83	645J-500	MANHOLE CONE RESET	4	0	4	EACH	\$	\$
84	645K-500	MANHOLE FRAME AND COVER RESET	4	0	4	EACH	\$	\$

REVISION NO. 1 – ISSUED FOR BID

LINE NO.	ITEM NO.	DESCRIPTION	RESTORE GRANT QUANTITY	CITY PROJECT QUANTITY	TOTAL QUANTITY	UNIT	UNIT PRICE	AMOUNT BID
85	650A-000	TOPSOIL	1890	2100	3990	CUBIC YARD	\$	\$
86	654A-001	SOLID SODDING (BERMUDA)	31200	4700	35900	SQUARE YARD	\$	\$
87	665A-000	TEMPORARY SEEDING	7	1	8	ACRE	\$	\$
88	665B-001	TEMPORARY MULCHING	21	3	24	TON	\$	\$
89	665E-000	POLYETHYLENE	1000	500	1500	SQUARE YARD	\$	\$
90	665G-000	SAND BAGS	500	250	750	EACH	\$	\$
91	665I-000	TEMPORARY RIPRAP, CLASS 2	500	250	750	TON	\$	\$
92	665J-002	SILT FENCE	13728	1000	14728	LINEAR FOOT	\$	\$
93	665N-001	TEMPORARY COARSE AGGREGATE,ALDOT NUMBER 4	600	300	900	TON	\$	\$
94	665O-001	SILT FENCE REMOVAL	13728	1000	14728	LINEAR FOOT	\$	\$
95	665P-005	INLET PROTECTION, STAGE 3 OR 4	80	0	80	EACH	\$	\$
96	665Q-002	WATTLE	1500	100	1600	LINEAR FOOT	\$	\$
97	666A-001	PEST CONTROL TREATMENT	7	1	8	ACRE	\$	\$
98	674A-000	CONSTRUCTION SAFETY FENCE	1000	500	1500	LINEAR FOOT	\$	\$
99	680A-001	GEOMETRIC CONTROLS	1	0	1	LUMP SUM	\$	\$
100	701A-227	SOLID WHITE, CLASS 2, TYPE A TRAFFIC STRIPE (5" WIDE)	3	1	4	MILE	\$	\$
101	701A-230	SOLID YELLOW, CLASS 2, TYPE A TRAFFIC STRIPE (5" WIDE)	4	1	5	MILE	\$	\$
102	701A-244	BROKEN YELLOW, CLASS 2, TYPE A TRAFFIC STRIPE (5" WIDE)	2	0	2	MILE	\$	\$
103	701B-207	DOTTED, CLASS 2, TYPE A TRAFFIC STRIPE (5" WIDE)	3356	0	3356	LINEAR FOOT	\$	\$
104	701C-003	SOLID TEMPORARY TRAFFIC STRIPE (PAINT)	13	0	13	MILE	\$	\$
105	701D-005	SOLID TRAFFIC STRIPE REMOVED	7	0	7	MILE	\$	\$
106	703A-002	TRAFFIC CONTROL MARKINGS, CLASS 2, TYPE A	8911	1391	10302	SQUARE FOOT	\$	\$
107	703B-002	TRAFFIC CONTROL LEGENDS, CLASS 2, TYPE A	292	45	337	SQUARE FOOT	\$	\$
108	703D-002	TEMPORARY TRAFFIC CONTROL MARKINGS (PAINT)	4456	696	5152	SQUARE FOOT	\$	\$
109	705A-030	PAVEMENT MARKERS, CLASS A-H, TYPE 2-C	214	0	214	EACH	\$	\$
110	705A-031	PAVEMENT MARKERS, CLASS A-H, TYPE 1-A	40	0	40	EACH	\$	\$
111	705A-032	PAVEMENT MARKERS, CLASS A-H, TYPE 1-B	70	0	70	EACH	\$	\$
112	705A-037	PAVEMENT MARKERS, CLASS A-H, TYPE 2-D	188	7	195	EACH	\$	\$

REVISION NO. 1 – ISSUED FOR BID

LINE NO.	ITEM NO.	DESCRIPTION	RESTORE GRANT QUANTITY	CITY PROJECT QUANTITY	TOTAL QUANTITY	UNIT	UNIT PRICE	AMOUNT BID	
113	705A-038	PAVEMENT MARKERS, CLASS A-H, TYPE 2-E	11	0	11	EACH	\$	\$	
114	707F-001	FLEXIBLE DELINEATOR POST WITH BASE, YELLOW	21	3	24	EACH	\$	\$	
115	707H-000	RAISED CURB CHANNELIZER, YELLOW	462	0	462	LINEAR FOOT	\$	\$	
116	710A-160	CLASS 10 ALUMINUM FLAT SIGN PANELS 0.08" THICK (TYPE XI BACKGROUND)	177	0	177	SQUARE FOOT	\$	\$	
117	710A-165	CLASS 10 ALUMINUM FLAT SIGN PANELS 0.08" THICK (TYPE XI BACKGROUND, FLUORESCENT)	119	0	119	SQUARE FOOT	\$	\$	
118	710A-170	CLASS 4, ALUMINUM FLAT SIGN PANELS 0.08" THICK (TYPE IV BACKGROUND)	216	0	216	SQUARE FOOT	\$	\$	
119	710B-021	ROADWAY SIGN POST (#3 U CHANNEL, GALVANIZED STEEL OR 2", 14 GA SQUARE TUBULAR STEEL)	1092	98	1190	LINEAR FOOT	\$	\$	
120	710C-000	REMOVAL OF EXISTING ROADWAY SIGNS	1	0	1	LUMP SUM	\$	\$	
121	711A-000	ROADWAY SIGN RELOCATION	1	0	1	LUMP SUM	\$	\$	
122	740B-000	CONSTRUCTION SIGNS	750	500	1250	SQUARE FOOT	\$	\$	
123	740D-000	CHANNELIZING DRUMS	500	250	750	EACH	\$	\$	
124	740E-000	CONES (36 INCHES HIGH)	250	125	375	EACH	\$	\$	
125	740F-001	BARRICADES, TYPE II	10	50	60	EACH	\$	\$	
126	740F-002	BARRICADES, TYPE III	10	0	10	EACH	\$	\$	
127	740I-002	WARNING LIGHTS, TYPE B	20	50	70	EACH	\$	\$	
128	740M-001	BALLAST FOR CONE	250	125	375	EACH	\$	\$	
129	741C-010	PORTABLE SEQUENTIAL ARROW AND CHEVRON SIGN UNIT	2	0	2	EACH	\$	\$	
130	742A-001	PORTABLE CHANGEABLE MESSAGE SIGN, TYPE 2	2	0	2	EACH	\$	\$	
131	999A-000	WORK OF SIMILAR NATURE UTILIZING BID ITEMS AND UNIT PRICES TO BE DETERMINED BY ENGINEER	0	1	1	LUMP SUM	\$ 250,000.00	\$ 250,000.00	
132	TOTAL BID AMOUNT, BASE BID (ADD "AMOUNT BID" COLUMN FIGURES FROM LINES 1 THROUGH 131):							\$	

Supplemental Specification No. 999-18

SUBJECT: Work of Similar Nature Utilizing Bid Items and Unit Prices to be Determined by Engineer

The Alabama Department of Transportation Standard Specifications for Highway Construction, 2018 Edition, is hereby amended as follows:

Add the following:

SECTION 999
WORK OF SIMILAR NATURE UTILIZING BID ITEMS AND UNIT PRICES
TO BE DETERMINED BY ENGINEER

999.01 Description.

This section specifies administrative and procedural requirements governing handling and processing work of similar nature utilizing bid items and unit prices to be determined by Engineer. This has been established in lieu of additional requirements and to defer selection of actual materials and equipment to a later date when additional information is available for evaluation.

999.02 Materials.

All materials furnished for use shall comply with the appropriate requirements of the Alabama Department of Transportation Standard Specifications for Highway Construction, 2018 Edition or as specified by the Engineer or the City of Orange Beach.

999.03 Construction Requirements.

(a) Equipment.

The equipment used for installation of this item of work shall be approved by the engineer prior to beginning work on this pay item.

999.04 Method of Measurement.

All work shall be measured, complete in place, in accordance with the appropriate section of the Alabama Department of Transportation Standard Specifications for Highway Construction, 2018 Edition or as specified by the Engineer or the City of Orange Beach.

999.05 Basis of Payment.

(a) Unit Price Coverage.

The item of Work of Similar Nature Utilizing Bid Items and Unit Prices to be Determined by Engineer, measured as noted above, will be paid for at a percentage of the contract lump sum price bid. This percentage will be calculated as follows:

$$\frac{\textit{Value of work performed (in dollars)}}{\textit{Lump sum value of pay item (in dollars)}} = \textit{Amount payable (in percent)}$$

(b) Payment will be made under Item No.:

999A-000 Work of Similar Nature Utilizing Bid Items and Unit Prices to be Determined by Engineer - per lump sum

SHEET NO	DESCRIPTION
1	TITLE SHEET
△ 1-A	INDEX TO SHEETS
1-B THRU 1-C	INDEX TO SPECIAL AND STANDARD DRAWINGS
1-D THRU 1-E	PLANS LEGEND AND ABBREVIATIONS SHEETS
1-F THRU 1-G	PROJECT KEY SHEETS
1-H THRU 1-I	PRIMARY SURVEY CONTROL AND GEOMETRIC LAYOUT SHEETS
1-J	OMIT
1-K THRU 1-L	HORIZONTAL ALIGNMENT DATA SHEETS
△ 2, 2-A THRU 2-J	TYPICAL SECTIONS
2-K THRU 2-M	OMIT
2-N	PROJECT NOTES
△ 2-O	WOODEN PEDESTRIAN BOARDWALK STRUCTURAL PROJECT NOTES
2-P	ALDOT STANDARD NOTES
2-Q	GENERAL TRAFFIC CONTROL PLAN NOTES
△ 3 THRU 3-D	SUMMARY OF QUANTITIES
4 THRU 14-A	PLAN AND PROFILE SHEETS
△ 15	WOODEN PEDESTRIAN BOARDWALK PLAN AND ELEVATION
△ 16	WOODEN PEDESTRIAN BOARDWALK SECTIONS AND DETAILS
17 THRU 19	OMIT
20 THRU 27	PAVING LAYOUT SHEETS
28 THRU 29	OMIT
30 THRU 37	STRIPING LAYOUT SHEETS
38 THRU 39	OMIT
40 THRU 47	SIGNING LAYOUT SHEETS
48 THRU 49	OMIT
50 THRU 60-A	UTILITY PLAN AND PROFILE SHEETS
61 THRU 68	OMIT
69	EROSION CONTROL PLAN LEGEND SHEET
70 THRU 77	EROSION CONTROL PLAN SHEETS
78 THRU 79	OMIT
80 THRU 95	DRAINAGE SECTIONS
96 THRU 99	OMIT
100	TRAFFIC CONTROL PLAN: SEQUENCE OF CONSTRUCTION
100-A THRU 100-D	TRAFFIC CONTROL PLAN: DETAIL SHEETS
101	TRAFFIC CONTROL PLAN: ADVANCE WARNING SIGN LAYOUT
102 THRU 149	OMIT
150 THRU 184	CROSS SECTIONS - CANAL RD E
185 THRU 189	OMIT
190 THRU 193	CROSS SECTIONS - TRAIL CONNECTION

REVISION NO.	DESCRIPTION	DATE	BY:
1	ISSUE FOR BID, REVISION 1	4/27/22	CDW

THIS DRAWING REPRESENTS A FINAL AGREEMENT BY THOMPSON ENGINEERING, INC. ON THIS PROJECT AND IS NOT TO BE USED FOR ANY OTHER PROJECTS. ANY CHANGES TO THIS DRAWING MUST BE APPROVED BY THOMPSON ENGINEERING, INC. AND THE CITY OF ORANGE BEACH, ALABAMA. THIS DRAWING IS SUBJECT TO LOCAL, STATE AND FEDERAL LAW.


PREPARED BY: **thompson ENGINEERING**
4751 MAIN STREET, SUITE F-712
 ORANGE BEACH, ALABAMA 36561

APPROVED BY: **thompson ENGINEERING**
4751 MAIN STREET, SUITE F-712
 ORANGE BEACH, ALABAMA 36561

SCALE: ..

DRAWN BY: .. CHECKED BY: .. DATE: .. JOB NO.: 20-1101-0085 REVISION NO.: ..

CITY OF ORANGE BEACH
 ORANGE BEACH, ALABAMA



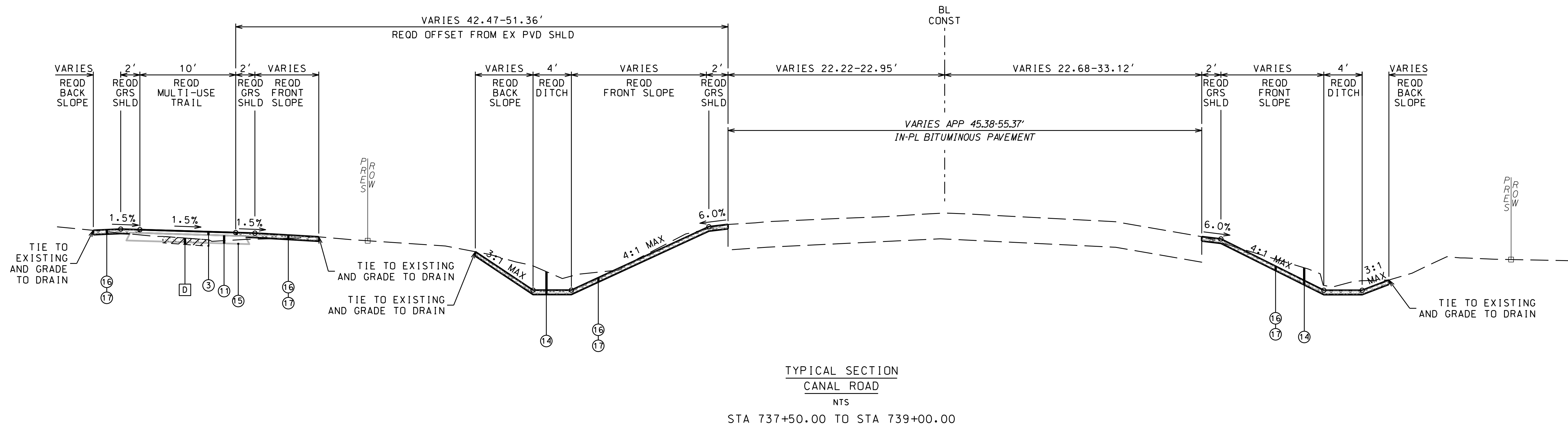
CANAL ROAD IMPROVEMENTS
 FROM SR-161 TO WILSON BOULEVARD

INDEX TO SHEETS

RESTORE GRANT PROJECT NO. GNSSP20AL0006-01-00

NOTE: ALL ITEMS OF WORK PERFORMED ON CITY PROPERTY AND OUTSIDE OF CANAL ROAD RIGHT-OF-WAY SHALL BE MEASURED AND PAID FOR UNDER THE CITY PROJECT PAY ITEMS AND EXCLUDED FROM THE RESTORE GRANT PROJECT PAY ITEMS.

PROJECT NOTES	
201	
202	
203	
204	
205	
206	
207	
208	
211	
212	



TYPICAL SECTION
CANAL ROAD

NTS
STA 737+50.00 TO STA 739+00.00

EXISTING MATERIALS LEGEND	
D	IN PLACE: CONCRETE SIDEWALK (REMOVE)
E	IN PLACE: BITUMINOUS PAVEMENT (RETAIN)
REQUIRED MATERIALS LEGEND	
3	REOD: (424A-340) SUPERPAVE BITUMINOUS CONCRETE WEARING SURFACE LAYER, 1/2" MAXIMUM AGGREGATE SIZE MIX, ESAL RANGE A/B (165 LBS/SY)
11	REOD: (301A-008) CRUSHED AGGREGATE BASE COURSE, TYPE B, PLANT MIXED, 5" COMPACTED THICKNESS (EXTEND 6" BEYOND OVERLYING BINDER LAYER)
14	REOD: (210A-000) UNCLASSIFIED EXCAVATION OR (210D-020) BORROW EXCAVATION (A-2 OR BETTER)(LOOSE TRUCKBED MEASUREMENT)
15	REOD: (608A-000) SEPERATION GEOTEXTILE
16	REOD: (650A-000) TOPSOIL
17	REOD: (654A-001) SOLID SODDING (BERMUDA)

NOTES:

1. THE IN-PLACE PAVED SHOULDER IN THIS SECTION WILL NOT REQUIRE REMOVAL PRIOR TO WIDENING. SHOULD IT BECOME APPARENT DURING CONSTRUCTION THAT THE THICKNESS OF THE ASPHALT SHOULDER IS LESS THAN 5 INCHES, THE SHOULDER SHOULD BE SAWCUT AND REMOVED PRIOR TO WIDENING.
2. SEE PAVING LAYOUTS ON SHEET 26.
3. SEE STRIPING LAYOUTS ON SHEET 36.

SHEET NO. : 2-J

CANAL ROAD IMPROVEMENTS
FROM SR-161 TO WILSON BOULEVARD

CITY OF ORANGE BEACH
ORANGE BEACH, ALABAMA

PREPARED BY :



DATE: 4/27/22

REVISION NO.	DESCRIPTION	DATE	BY:
1	ISSUE FOR BID, REVISION 1	4/27/22	CDW

THIS DRAWING REPRESENTS A PROFESSIONAL ENGINEERING DESIGN FOR A PROJECT AND IS NOT TO BE USED FOR ANY OTHER PROJECT WITHOUT THE WRITTEN CONSENT OF THOMPSON ENGINEERING, INC.

thompson ENGINEERING
THOMPSON ENGINEERING, INC.
4751 MAIN STREET, SUITE F-212
ORANGE BEACH, ALABAMA 36561
DRAWN BY: CHECKED BY: APPROVED BY:

TYPICAL SECTIONS

DATE: DEC 2021

JOB NO.: 20-1101-0085

REVISION NO.:

SCALE:

ITEM NUMBER	DESCRIPTION	UNIT	RESTORE GRANT QUANTITY	CITY PROJECT QUANTITY	TOTAL PLAN QUANTITY
201A-002	CLEARING AND GRUBBING (MAXIMUM ALLOWABLE BID \$ 8,000 PER ACRE) (APPROXIMATELY 12.0 ACRES)	LUMP SUM	0.8	0.2	1
206C-000	REMOVING CONCRETE SIDEWALK	SQUARE YARD	2630	1091	3721
206C-010	REMOVING CONCRETE DRIVEWAY	SQUARE YARD	285	17	302
206C-017	REMOVING CONCRETE PAD	SQUARE YARD	0	17	17
206D-000	REMOVING PIPE	LINEAR FOOT	2705	0	2705
206D-002	REMOVING CURB	LINEAR FOOT	189	936	1125
206D-003	REMOVING CURB AND GUTTER	LINEAR FOOT	83	44	127
206D-011	REMOVING FENCE	LINEAR FOOT	0	303	303
206E-000	REMOVING HEADWALLS	EACH	47	0	47
206E-002	REMOVING JUNCTION BOXES	EACH	2	0	2
209A-000	MAILBOX RESET, SINGLE	EACH	16	0	16
209A-002	MAILBOX RESET, MULTIPLE	EACH	2	0	2
210A-000	UNCLASSIFIED EXCAVATION	CUBIC YARD	4556	2421	6977
210D-020	BORROW EXCAVATION (LOOSE TRUCKBED MEASUREMENT)(A2 OR BETTER)	CUBIC YARD	10932	4190	15122
214A-000	STRUCTURE EXCAVATION	CUBIC YARD	1636	664	2300
214B-001	FOUNDATION BACKFILL, COMMERCIAL	CUBIC YARD	677	261	938
230A-000	ROADBED PROCESSING	ROADBED STATION	70	0	70
301A-008	CRUSHED AGGREGATE BASE COURSE, TYPE B, PLANT MIXED, 5" COMPACTED THICKNESS	SQUARE YARD	4800	4565	9365
301A-012	CRUSHED AGGREGATE BASE COURSE, TYPE B, PLANT MIXED, 6" COMPACTED THICKNESS	SQUARE YARD	16307	0	16307
401A-000	BITUMINOUS TREATMENT A	SQUARE YARD	21106	4565	25671
405A-000	TACK COAT	GALLON	6440	758	7198
408A-052	PLANING EXISTING PAVEMENT (APPROXIMATELY 1.10" THRU 2.0" THICK)	SQUARE YARD	8858	3439	12297
410H-000	MATERIAL REMIXING DEVICE	EACH	1	0	1
424A-340	SUPERPAVE BITUMINOUS CONCRETE WEARING SURFACE LAYER, 1/2" MAXIMUM AGGREGATE SIZE MIX, ESAL RANGE A/B	TON	500	306	806
424A-360	SUPERPAVE BITUMINOUS CONCRETE WEARING SURFACE LAYER, 1/2" MAXIMUM AGGREGATE SIZE MIX, ESAL RANGE C/D	TON	4657	490	5147
424B-651	SUPERPAVE BITUMINOUS CONCRETE UPPER BINDER LAYER, 1" MAXIMUM AGGREGATE SIZE MIX, ESAL RANGE C/D	TON	1852	217	2069
424B-655	SUPERPAVE BITUMINOUS CONCRETE UPPER BINDER LAYER, PATCHING, 1" MAXIMUM AGGREGATE SIZE MIX, ESAL RANGE C/D	TON	251	12	263
424B-657	SUPERPAVE BITUMINOUS CONCRETE UPPER BINDER LAYER, LEVELING, 1/2" MAXIMUM AGGREGATE SIZE MIX, ESAL RANGE C/D	TON	996	0	996
424B-681	SUPERPAVE BITUMINOUS CONCRETE LOWER BINDER LAYER, 1" MAXIMUM AGGREGATE SIZE MIX, ESAL RANGE C/D	TON	1930	0	1930
430B-040	AGGREGATE SURFACING (CRUSHED AGGREGATE BASE, TYPE B)	TON	1698	500	2198
450A-006	REINFORCED CEMENT CONCRETE PAVEMENT, 10 INCHES THICK	SQUARE YARD	664	0	664
516D-000	PEDESTRIAN BRIDGE	LUMP SUM	1	0	1
530A-001	18" ROADWAY PIPE (CLASS 3 R.C.)	LINEAR FOOT	218	18	236
530B-014	36" SPAN, 23" RISE ROADWAY PIPE (CLASS 3 R.C.) (EXTENSION)	LINEAR FOOT	0	18	18
532A-030	12" SLOTTED DRAIN PIPE	LINEAR FOOT	0	40	40
532A-032	18" SLOTTED DRAIN PIPE	LINEAR FOOT	100	60	160
533A-855	12" STORM SEWER PIPE	LINEAR FOOT	0	125	125
533A-097	15" STORM SEWER PIPE (CLASS 3 R.C.)	LINEAR FOOT	0	24	24
533A-098	18" STORM SEWER PIPE (CLASS 3 R.C.)	LINEAR FOOT	1546	90	1636
533A-099	24" STORM SEWER PIPE (CLASS 3 R.C.)	LINEAR FOOT	577	864	1441
533A-900	4" STORM SEWER PIPE (PVC)	LINEAR FOOT	22	0	22
533B-099	29" SPAN, 18" RISE STORM SEWER PIPE (CLASS 3 R.C.)	LINEAR FOOT	152	0	152
533B-100	36" SPAN, 23" RISE STORM SEWER PIPE (CLASS 3 R.C.)	LINEAR FOOT	13	0	13
535B-088	22" SPAN, 14" RISE SIDE DRAIN PIPE (CLASS 3 R.C.)	LINEAR FOOT	904	0	904
535B-090	18" SPAN, 11" RISE SIDE DRAIN PIPE (CLASS 3 R.C.)	LINEAR FOOT	56	0	56
535B-091	29" SPAN, 18" RISE SIDE DRAIN PIPE (CLASS 3 R.C.)	LINEAR FOOT	1532	0	1532
600A-000	MOBILIZATION	LUMP SUM	1	0	1
602A-000	RIGHT OF WAY MARKERS	EACH	9	0	9
608A-000	SEPARATION GEOTEXTILE	SQUARE YARD	4800	4565	9365
610A-004	LOOSE RIPRAP, CLASS 2, 24" THICK	SQUARE YARD	0	11	11
610D-003	FILTER BLANKET, GEOTEXTILE	SQUARE YARD	0	16	16
614A-000	SLOPE PAVING	CUBIC YARD	1	0	1
618A-000	CONCRETE SIDEWALK, 4" THICK	SQUARE YARD	578	76	654
618A-001	CONCRETE SIDEWALK, 6" THICK	SQUARE YARD	1121	222	1343
618B-003	CONCRETE DRIVEWAY, 6" THICK (INCLUDES WIRE MESH)	SQUARE YARD	452	0	452
618C-002	DIRECTIONAL TACTILE WARNING SURFACE INDICATORS	SQUARE FOOT	56	0	56
618D-000	CURB RAMP	SQUARE YARD	375	97	472
619A-000	12" ROADWAY PIPE END TREATMENT, CLASS 1	EACH	0	1	1
619A-001	15" ROADWAY PIPE END TREATMENT, CLASS 1	EACH	0	1	1
619A-002	18" ROADWAY PIPE END TREATMENT, CLASS 1	EACH	5	0	5
619A-101	18" SIDE DRAIN PIPE END TREATMENT, CLASS 1	EACH	5	1	6
619A-202	24" ROADWAY PIPE END TREATMENT, CLASS 1 (DOUBLE LINE)	EACH	0	1	1
619B-018	36" SPAN, 23" RISE ROADWAY PIPE END TREATMENT, CLASS 1	EACH	0	1	1
619B-115	18" SPAN, 11" RISE SIDE DRAIN PIPE END TREATMENT, CLASS 1	EACH	2	0	2
619B-116	22" SPAN, 14" RISE SIDE DRAIN PIPE END TREATMENT, CLASS 1	EACH	30	0	30
619B-117	29" SPAN, 18" RISE SIDE DRAIN PIPE END TREATMENT, CLASS 1	EACH	38	0	38
619B-267	29" SPAN, 18" RISE ROADWAY PIPE END TREATMENT, CLASS 1 (DOUBLE LINE)	EACH	1	0	1
620A-000	MINOR STRUCTURE CONCRETE	CUBIC YARD	1	1	2
621A-011	JUNCTION BOXES, TYPE 1 OR 1P	EACH	37	0	37
621A-019	JUNCTION BOXES, TYPE 1 OR 2P	EACH	2	0	2
621C-140	INLETS, OPEN THROAT	EACH	4	0	4
621E-004	MANHOLES, TYPE L OR M (STORM)	EACH	3	2	5
621H-001	INLET TOPS, CURB & GUTTER	EACH	24	0	24
621H-002	INLET TOPS, CURB & GUTTER (DOUBLE)	EACH	7	0	7
621H-003	INLET TOPS, GUTTER	EACH	3	0	3

△

CANAL ROAD IMPROVEMENTS FROM SR-161 TO WILSON BOULEVARD

CITY OF ORANGE BEACH, ALABAMA



PREPARED BY: thompson ENGINEERING
 THOMPSON ENGINEERING INC.
 4751 MAIN STREET, SUITE F-712
 ORANGE BEACH, ALABAMA 36561
 (251) 378-6100

SUMMARY OF QUANTITIES

DATE: DEC 2021
 JOB NO.: 20-1101-0085
 APPROVED BY: [Signature]
 CHECKED BY: [Signature]
 DRAWN BY: [Signature]

ISSUE FOR BID, REVISION 1
 DATE: 4/27/22
 CDW

THIS DRAWING, REPRESENTS A PROFESSIONAL ENGINEERING DESIGN FOR THE PROJECT AND IS NOT TO BE USED FOR ANY OTHER PURPOSES WITHOUT THE WRITTEN CONSENT OF THOMPSON ENGINEERING INC.

RESTORE GRANT PROJECT NO. GNSSP20AL0006-01-00

REQUIRED SIDE DRAIN PIPE SUMMARY											
LOCATION				SIDE DRAIN PIPE CLASS 3 RC			SIDE DRAIN PIPE END TREATMENT CLASS 1			STANDARD OR SPECIAL DRAWING	
ROADWAY	STATION	SIDE	INDEX NO	22"x14"	18"x11"	29"x18"	18"x11"	22"x14"	29"x18"		SLOPE
				535B-088	535B-090	535B-091	619B-115	619B-116	619B-117		
				LIN FT	LIN FT	LIN FT	EA	EA	EA		
CANAL RD	687+19.80	LT	1			76.0			2	6:1	
CANAL RD	669+41.37	RT	2			104.0			2	6:1	
CANAL RD	690+64.81	LT	3	128.0					2	6:1	
CANAL RD	688+94.53	RT	4	40.0					2	6:1	
CANAL RD	699+20.81	LT	5	48.0					2	6:1	
CANAL RD	691+53.24	RT	6	44.0					2	6:1	
CANAL RD	700+32.09	LT	7	48.0					2	6:1	
CANAL RD	692+45.39	RT	8	44.0					2	6:1	
CANAL RD	706+64.77	LT	9	48.0					2	6:1	
CANAL RD	693+38.42	RT	10	44.0					2	6:1	
CANAL RD	707+51.10	LT	11	44.0					2	6:1	
CANAL RD	697+47.52	RT	12			112.0			2	6:1	
CANAL RD	710+48.80	LT	13	40.0					2	6:1	
CANAL RD	702+58.23	RT	14	56.0					2	6:1	
CANAL RD	711+64.54	LT	15		56.0		2			6:1	
CANAL RD	704+87.01	RT	16			64.0			2	6:1	
CANAL RD	718+21.26	LT	17			56.0			2	6:1	
CANAL RD	707+86.62	RT	18			108.0			2	6:1	
CANAL RD	719+28.39	LT	19			60.0			2	6:1	
CANAL RD	710+12.92	RT	20			132.0			2	6:1	
CANAL RD	723+14.50	LT	21			64.0			2	6:1	
CANAL RD	712+46.95	RT	22			72.0			2	6:1	
CANAL RD	724+58.09	LT	23	60.0					2	6:1	
CANAL RD	721+01.93	RT	24	108.0					2	6:1	
CANAL RD	730+89.55	LT	25			48.0			2	6:1	
CANAL RD	727+13.30	RT	26	52.0					2	6:1	
CANAL RD	735+30.08	LT	27			160.0			2	6:1	
CANAL RD	729+07.00	RT	28	100					2	6:1	
CANAL RD	732+05.36	RT	30			64.0			2	6:1	
CANAL RD	732+70.37	RT	32			60.0			2	6:1	
CANAL RD	734+80.64	RT	34			60.0			2	6:1	
CANAL RD	735+51.59	RT	36			64.0			2	6:1	
CANAL RD	736+71.44	RT	38			100.0			2	6:1	
CANAL RD	737+63.76	RT	40			68.0			2	6:1	
CANAL RD	738+79.15	RT	42			60.0			2	6:1	
TOTAL				904	56	1532	2	30	38		

FE-619, HW-614-SP, HW-614 SP (PC)

CANAL ROAD IMPROVEMENTS FROM SR-161 TO WILSON BOULEVARD
SUMMARY OF QUANTITIES

CITY OF ORANGE BEACH, ALABAMA
thompson ENGINEERING
PREPARED BY : THOMPSON ENGINEERING INC. 4751 MAIN STREET, SUITE F-712 ORANGE BEACH, ALABAMA 36561
DRAWN BY : CHECKED BY : APPROVED BY :
DATE : DEC 2021 JOB NO. : 20-1101-0085 REVISION NO. : ..



REVISION NO.	DESCRIPTION	DATE	BY:
1	ISSUE FOR BID, REVISION 1	4/27/22	CDW

THIS DRAWING REPRESENTS A PROFESSIONAL ENGINEERING DESIGN. IT IS NOT TO BE USED FOR CONSTRUCTION WITHOUT THE SIGNATURE AND SEAL OF THE ENGINEER. ANY CHANGES TO THIS DRAWING MUST BE APPROVED BY THE ENGINEER.

CITY PROJECT

REQUIRED ROADWAY DRAINAGE SUMMARY																																	
LINE NO.	LOCATION				INDEX NO.		SHEET NO.		ROADWAY PIPE			SLOTTED DRAIN PIPE			STORM SEWER PIPE				PIPE END TREATMENT						MANHOLES		CONCRETE PIPE COLLAR	MINOR STRUCTURE CONCRETE	STRUCTURE EXCAVATION	FOUNDATION BACKFILL, COMMERCIAL	STANDARD OR SPECIAL DRAWING	REMARKS	LINE NO.
									CLASS 3 RC			CLASS 3 RC			ROADWAY, CLASS 1				SIDE DRAIN, CLASS 1	TYPE OR IM (STORM)													
	36" X 23" (EXTENSION)	12"	18"	12"	15"	18"	24"	12"	15"	24" (DOUBLE LINE)	36" X 23" R	LOOSE RIPRAP, CLASS 2, 24" THICK	FILTER BLANKET, GEOTEXTILE	18"																			
															530B-014	532A-030	532A-032	533A-855	533A-097	533A-098	533A-099	619A-000	619A-001	619A-202	619B-018	610A-004							
FROM STATION	TO STATION	SIDE	ROADWAY	FROM	TO	PLAN	DRAINAGE SECTION	LIN FT	LIN FT	LIN FT	LIN FT	LIN FT	LIN FT	LIN FT	LIN FT	EA	EA	EA	EA	SQ YD	SQ YD	EA	EA	#	CU YD	CU YD	CU YD						
1	679+45.00	-	RT	CANAL RD	43	44	6	86								392.0													1				
2	679+45.00	-	RT	CANAL RD	44	45	6,14	86								352.0													1				
3	679+45.00	-	RT	CANAL RD	45	46	14	86								120.0													1				
4	679+46.00	-	RT	CANAL RD	46	-	14	86																									
5																																	
6	27+88.46	27+68.46	LT	NORTH ACCESS RD	29	-	6	85			20.0																						
7	27+68.46	27+36.41	LT	NORTH ACCESS RD	29	30	6	85,84							31.0																		
8	28+13.62	28+33.62	LT	NORTH ACCESS RD	48	-	6	93			20.0																						
9	28+33.62	28+78.62	LT	NORTH ACCESS RD	48	49	6	93					45.0																				
10	28+78.62	28+98.62	LT	NORTH ACCESS RD	49	-	6	93			20.0																						
11	28+98.62	29+78.62	LT	NORTH ACCESS RD	49	50	6	93					80.0																				
12	27+91.44	27+51.44	RT	NORTH ACCESS RD	51	-	6	90				40.0																					
13	27+51.44	27+25.80	RT	NORTH ACCESS RD	51	52	6	90							25.0																		
14																																	
15	205+64.30	205+55.20	RT	TRAIL CONNECTION	66	67	14	93							24.0																		
16	204+11.88	204+17.61	RT	TRAIL CONNECTION	68	69	14	93			18.0																						
17																																	
18	131+18.89	130+82.89	LT	WALKER LN	80	82	12	95							34.0																		
19																																	
TOTALS								18	40	60	125	24	90	864	1	1	1	1	11	16	1	2				1	664	261					

REVISION NO. 1
DESCRIPTION: ISSUE FOR BID, REVISION 1
DATE: 4/27/22
BY: CDW

REVISION NO. 2
DESCRIPTION:
DATE:
BY:
CDW

REVISION NO. 3
DESCRIPTION:
DATE:
BY:
CDW


REVISION NO. 4
DESCRIPTION:
DATE:
BY:
CDW

DATE: 4/27/22
BY: CDW

DATE:
BY:
CDW

DATE:
BY:
CDW

DATE:
BY:
CDW



CITY OF ORANGE BEACH
ORANGE BEACH, ALABAMA

PREPARED BY: **thompson ENGINEERING**
4751 MAIN STREET, SUITE F-212
ORANGE BEACH, ALABAMA 36561
PHONE: 904-378-6100

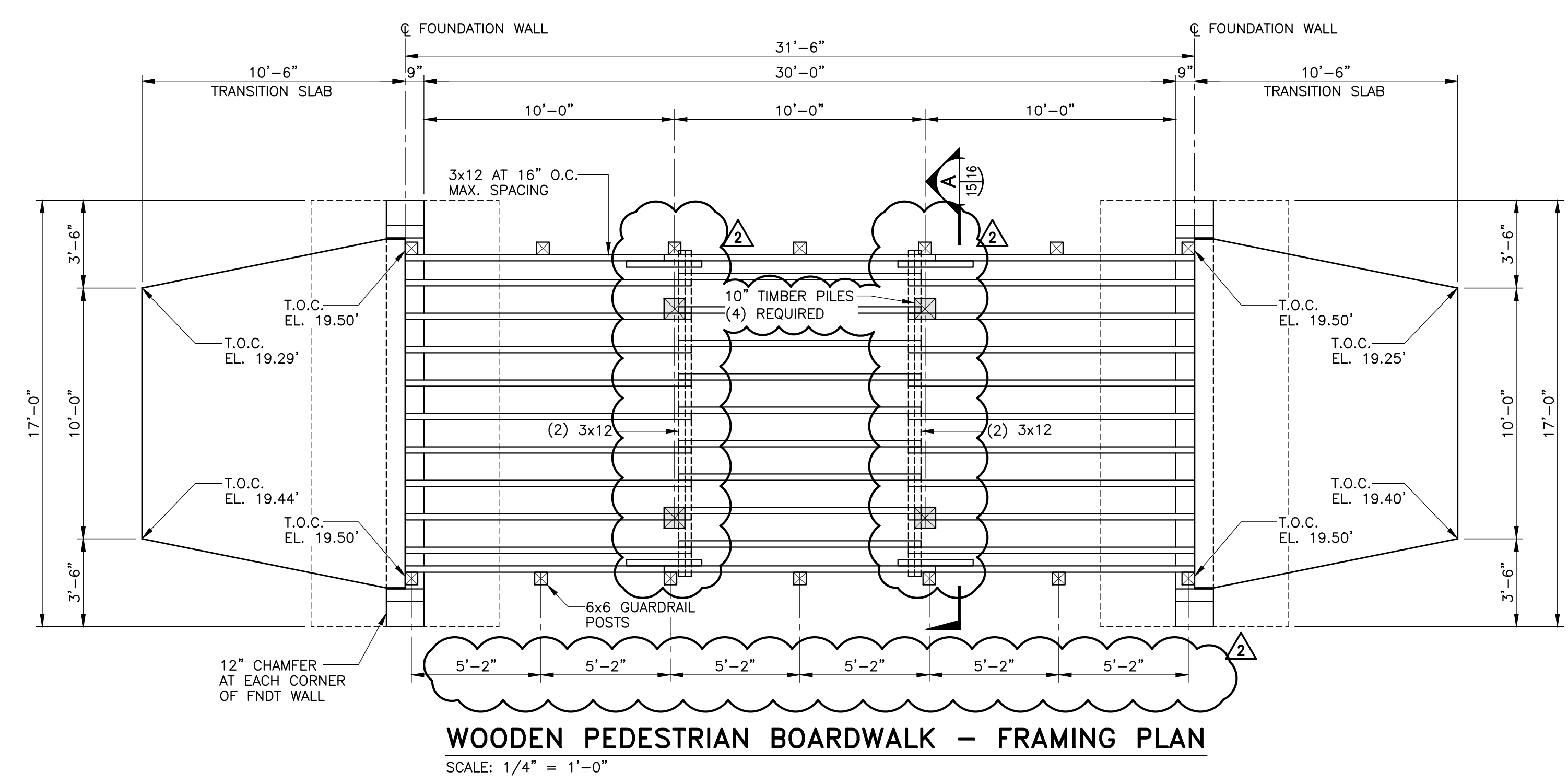
APPROVED BY:
DATE:
JOB NO.: 20-1101-0085
REVISION NO.:
DATE: DEC 2021

CANAL ROAD IMPROVEMENTS
FROM SR-161 TO WILSON BOULEVARD

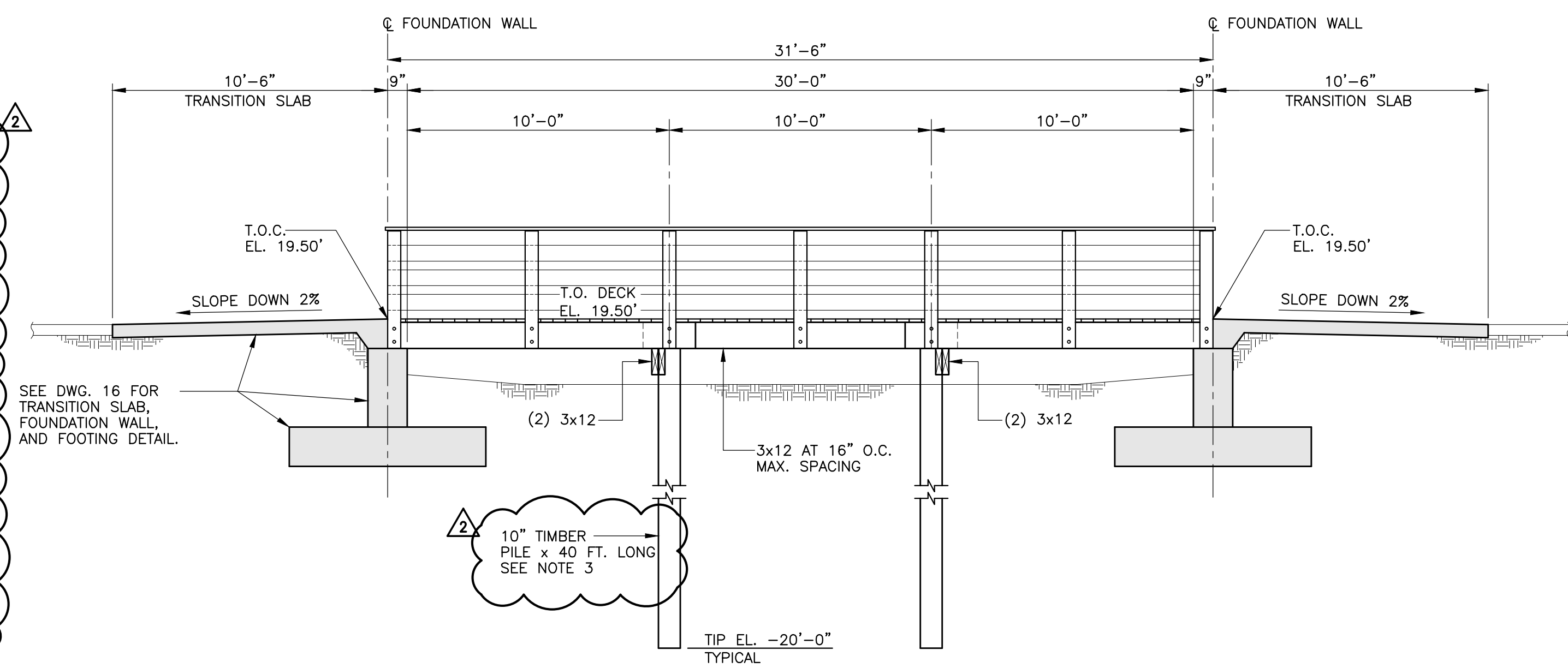
SUMMARY OF QUANTITIES

SHEET NO.: 3-D

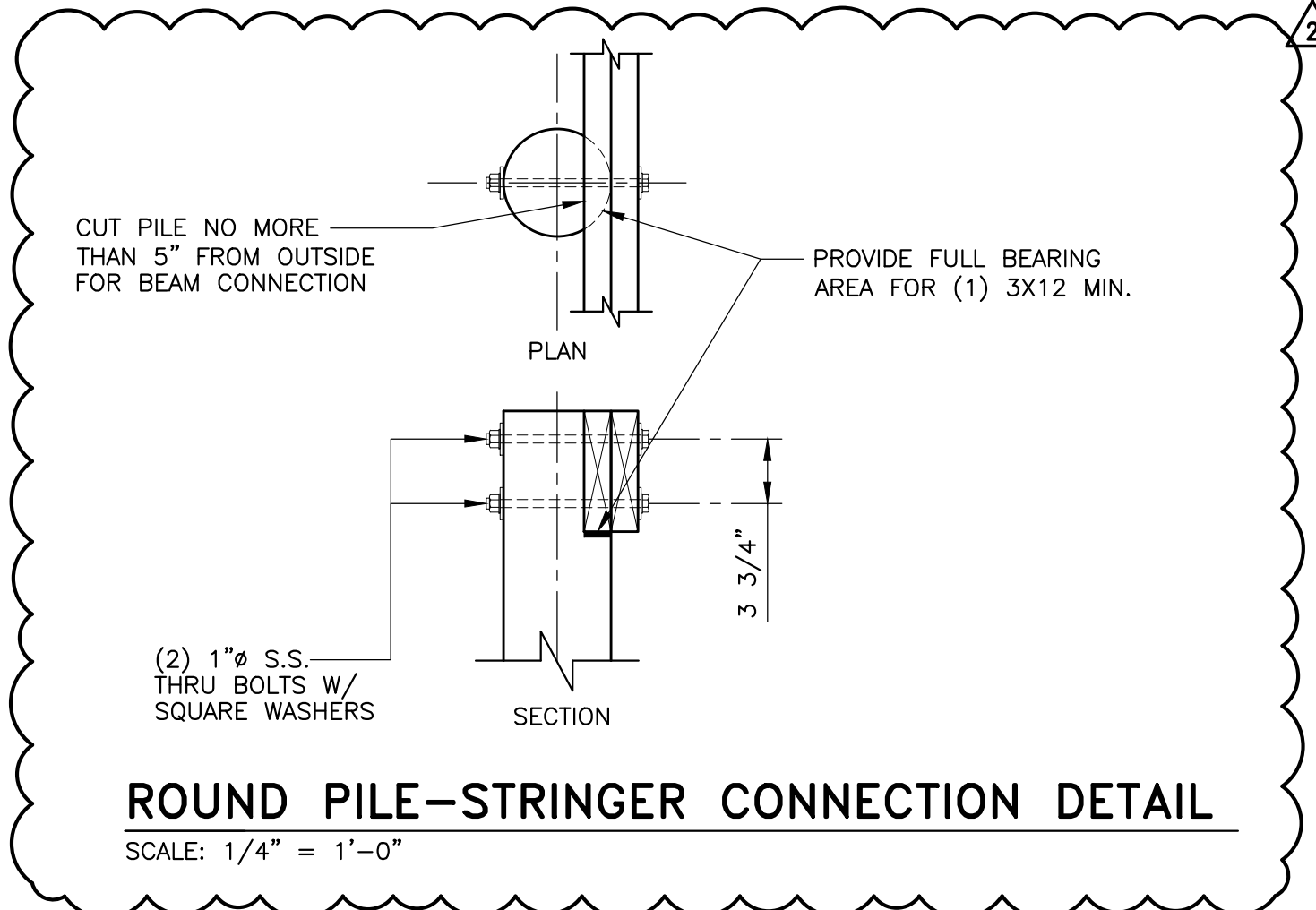
- DRAWING NOTES:
- SEE SHHET 2-0 FOR STRUCTURAL NOTES.
 - ROUGH-SAWN LUMBER MAY BE USED IN LIEU OF DIMENSIONAL LUMBER PROVIDED THAT ANY ROUGH-SAWN LUMBER BE CERTIFIED BY A LUMBER GRADING OR INSPECTION AGENCY MEETING THE REQUIREMENTS OF IBC 2018 SECTION 2303.1. ELEVATIONS AND DIMENSIONS SHOWN ARE FOR DIMENSIONAL LUMBER AND ADJUSTMENT MUST BE MADE IF ROUGH-SAWN LUMBER IS USED.
 - PILE TYPE: 10" SQUARE; ALTERNATE PILE TYPE SHALL BE SOUTHERN PINE, 10" ROUND WITH 8" DIAMETER TIP, PRESSURE TREATED PILE MEETING ASTM D25 REQUIREMENTS. PILE CUTOFF SHALL BE TREATED WITH COPPER NAPHTHENATE.



WOODEN PEDESTRIAN BOARDWALK - FRAMING PLAN
SCALE: 1/4" = 1'-0"



WOODEN PEDESTRIAN BOARDWALK - FRAMING ELEVATION
SCALE: 1/4" = 1'-0"



ROUND PILE-STRINGER CONNECTION DETAIL
SCALE: 1/4" = 1'-0"

CIP CONCRETE CLEAR COVER SCHEDULE	
LOCATION	COVER (IN)
CONCRETE CAST AGAINST & EXPOSED TO EARTH	3"
CONCRETE EXPOSED TO EARTH OR WEATHER:	
#6 TO #18 BARS	2"
#5, w31, AND SMALLER BARS	1 1/2"
CONCRETE NOT EXPOSED TO EARTH OR WEATHER:	
SLABS, WALLS, AND JOISTS	
#14 AND #18 BARS	1 1/2"
#11 AND SMALLER BARS	3/4"
BEAMS AND COLUMNS	1 1/2"
FOOTINGS, GRADE BEAMS, AND PILE CAPS	2" TOP 3" BOT. & SIDES
PEDESTALS AND COLUMNS	1 1/2" CLEAR OF TIES
BASEMENT WALLS	2" EXT. & 3/4" INT.
RETAINING WALLS	2" BOTH FACES
SUMP AND PIT WALLS	2" BOTH FACES
ELEVATED SLABS NOT EXPOSED TO WEATHER	3/4" TOP & BOT.
POST TENSIONED SLABS EXPOSED TO WEATHER	1" TOP & BOT.
ELEVATED SLABS EXPOSED TO WEATHER:	
#5 AND SMALLER BARS	1 1/2" TOP & 3/4" BOT.
#6 AND GREATER BARS	2" TOP & 3/4" BOT.
WELDED WIRE REINFORCEMENT:	
5" OR LESS SLAB THICKNESS	CENTER
6" OR GREATER SLAB THICKNESS	2" FROM TOP
SLABS ON WELL GRADED SUBGRADE OR VAPOR BARRIERS	3/4" TOP 1 1/2" BOT.
BEAMS	1 1/2" CLR OF STIRRUPS
JOISTS	1 1/2" ALL SIDES
WIDE MODULE JOISTS	3/4"

CAST-IN-PLACE CONCRETE MIX SCHEDULE								
APPLICATION	EXPOSURE CLASS	STRENGTH (PSI)	TYPE	W/C RATIO	SLUMP	AIR CONTENT	MAX AGGREGATE SIZE	MAX CONCRETE WEIGHT (PCF)
SHALLOW FOUNDATIONS	F0, S0, W0, CO	4,000	NORMAL WT.	0.48	3" TO 5"	---	1"	150
DRILLED PIERS	F0, S0, W0, CO	4,000	NORMAL WT.	0.57	6" TO 8"	---	1"	150
SLAB ON GRADE	F0, S0, W0, CO	4,000	NORMAL WT.	0.45	3" TO 5"	---	1"	150
ELEVATED SLAB	F1, S0, W0, CO	4,000	NORMAL WT.	0.45	3" TO 5"	4% - 6%	3/4"	150

NOTES:

- EXPOSURE CLASS FOR FREEZE/THAW, SULFATES, WATER EXPOSURE, AND CORROSION ARE PER ACI 318, SECTION 19.3.
- WHERE NO W/C RATIO, SLUMP, OR AIR CONTENT IS NOTED, CONCRETE MIX DESIGN SHALL BE AS RECOMMENDED BY THE READY MIX SUPPLIERS ENGINEER.

REQUIRED STEEL REINFORCEMENT AND CONCRETE			
STATION TO STATION	STEEL REINFORCEMENT	CULVERT CONCRETE	REMARKS SEE DWGS. 2-0 15 16
	(LB)	(CU YD)	
STA 731+05 TO STA 731+55	1800	30	
TOTALS	1800	30	

CANAL ROAD IMPROVEMENTS FROM SR-161 TO WILSON BOULEVARD

WOODEN PEDESTRIAN BOARDWALK PLAN AND ELEVATION

CITY OF ORANGE BEACH, ALABAMA

THOMPSON ENGINEERING INC. No. 36284 PROFESSIONAL ENGINEER BRYAN A. COOLEY 4-26-22

THOMPSON ENGINEERING 4751 MAIN STREET, SUITE 212 BEACH, ALABAMA 36561 ORANGE (251) 378-6190

APPROVED BY: BAC DATE: DEC 2021 JOB NO.: 20-1101-0085 REVISION NO.: 2

PREPARED BY: thompson ENGINEERING DRAWN BY: WA/BAC CHECKED BY: RAH SCALE: 1/4" = 1'-0"

DATE	BY:	DATE	BY:	DATE	BY:	DATE	BY:
4/9/21	BAC	12/17/21	BAC	4/26/22	BAC		

DESCRIPTION: ISSUED FOR APPROVAL

DESCRIPTION: ISSUED FOR BID

DESCRIPTION: ISSUED FOR BID, REVISION 1

DESCRIPTION: ISSUED FOR BID, REVISION 2

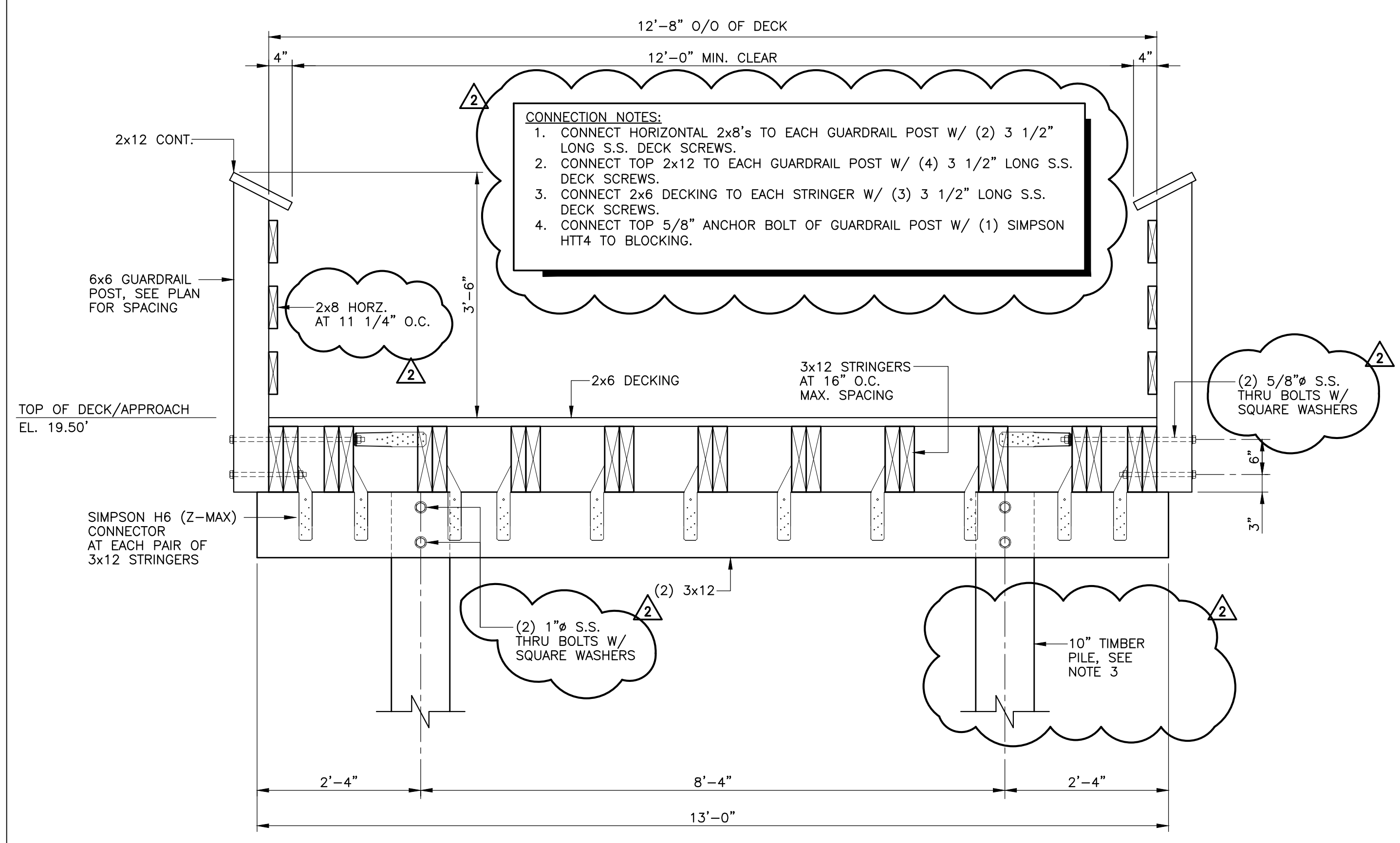
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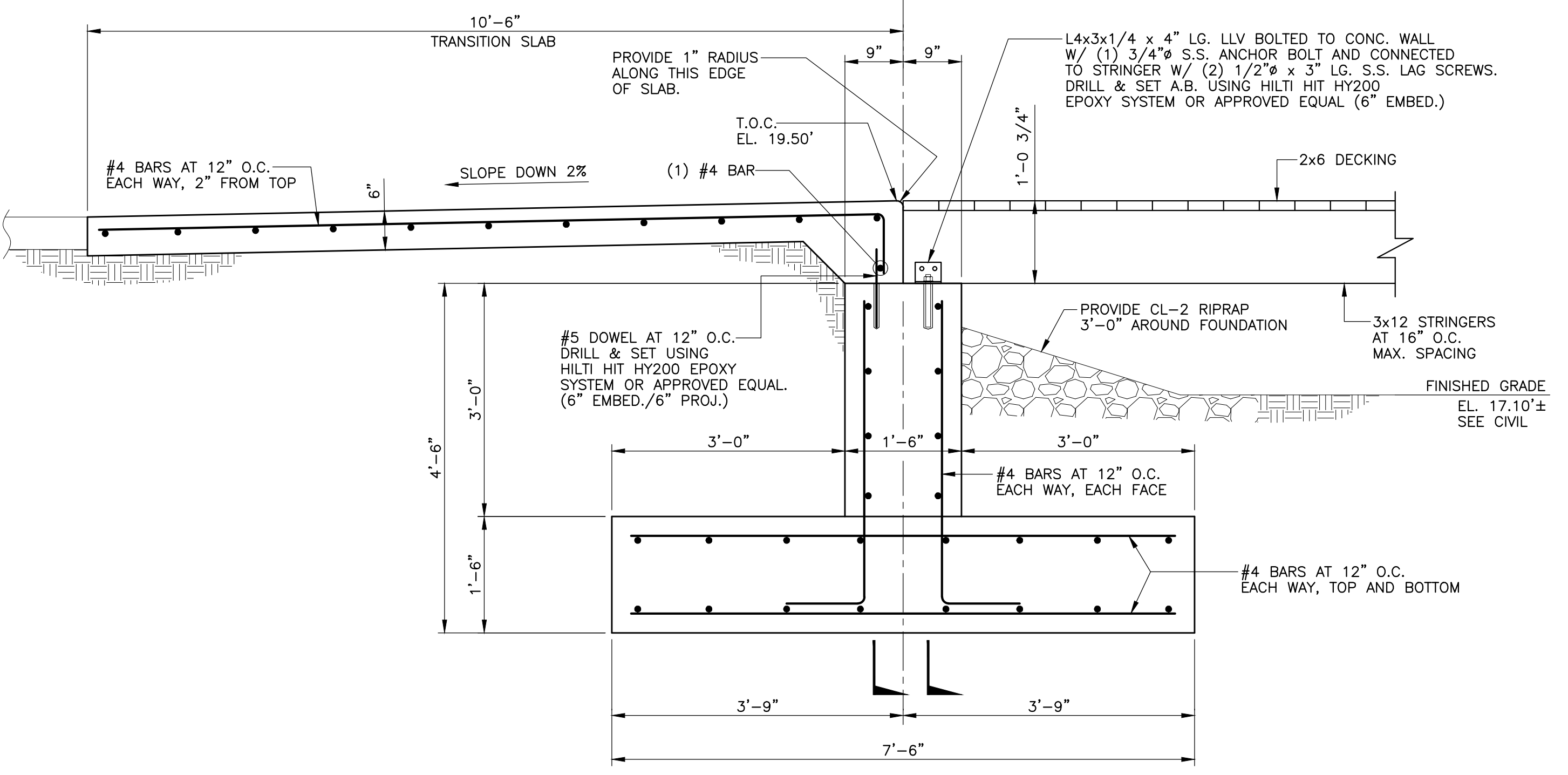
REVISION NO.	DESCRIPTION	DATE	BY:
0	ISSUED FOR APPROVAL	4/9/21	BAC
1	ISSUED FOR BID	12/17/21	BAC
2	ISSUED FOR BID, REVISION 1	4/26/22	BAC

THIS DRAWING REPRESENTS DESIGNS PREPARED BY THOMPSON ENGINEERING FOR SPECIFIC USE ON THIS PROJECT AND IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF THOMPSON ENGINEERING. THE USER OF THIS DRAWING IS SOLELY RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES AND AGENCIES.

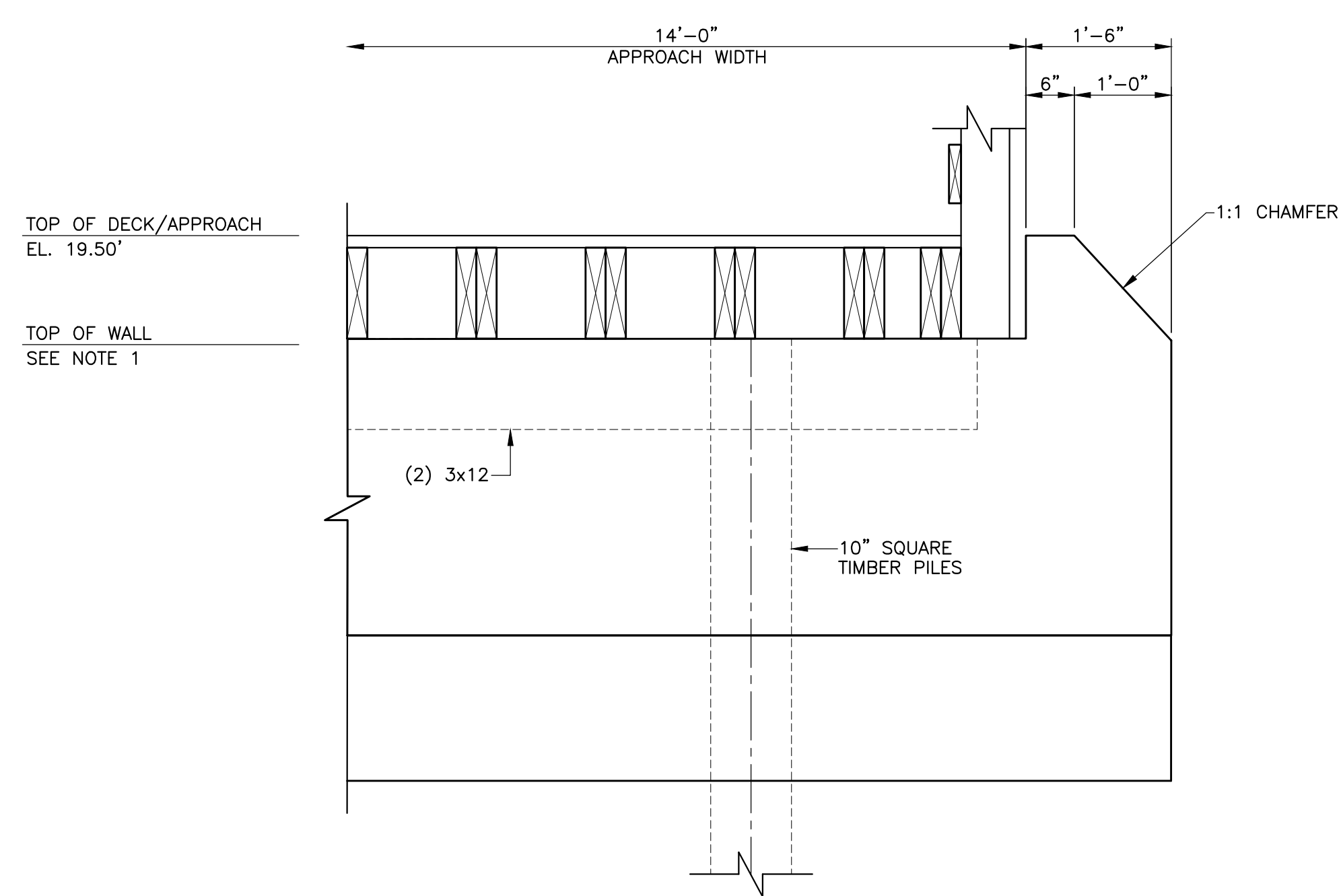
- DRAWING NOTES:**
- SEE SHHET 2-0 FOR STRUCTURAL NOTES.
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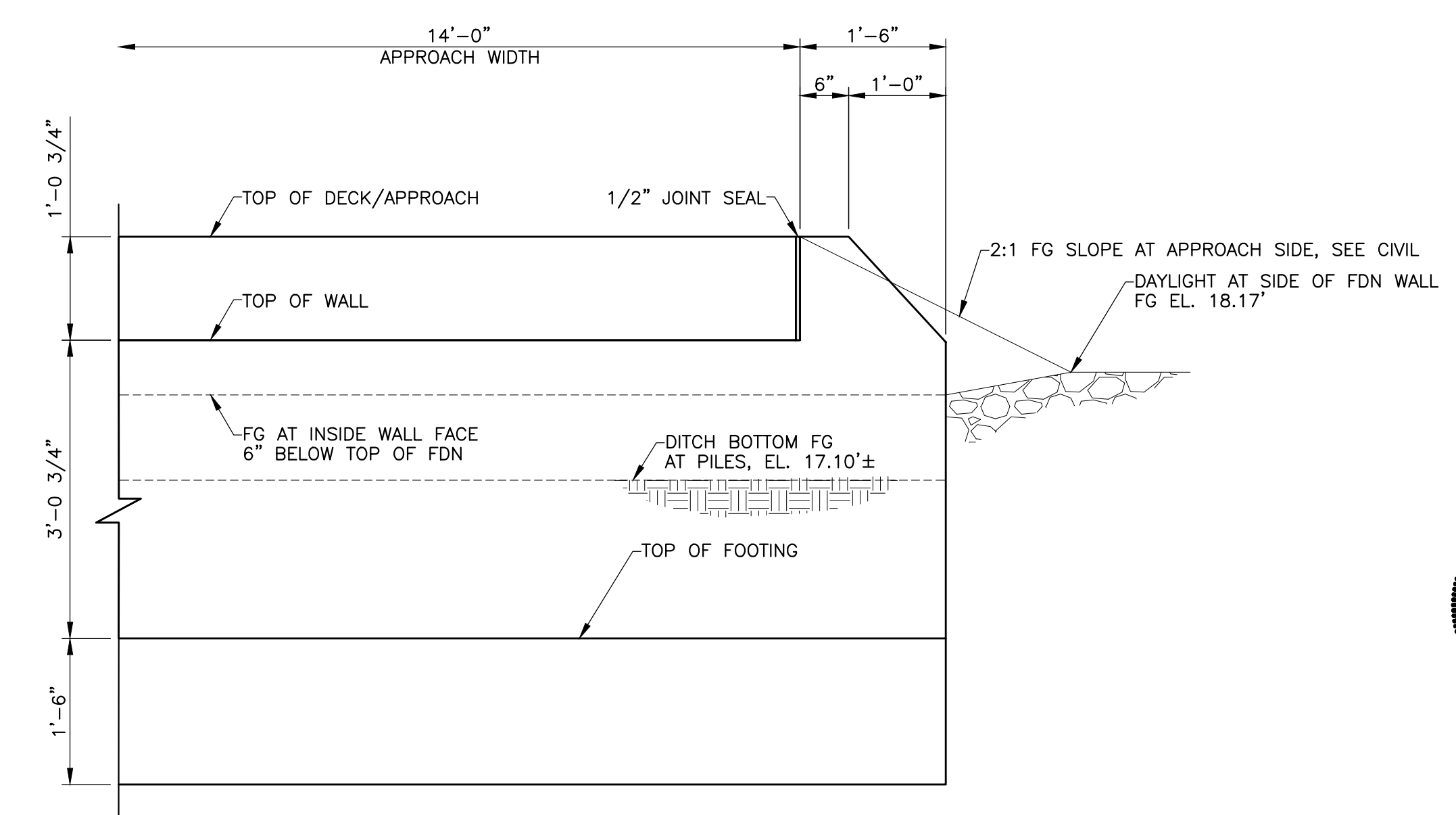
SECTION A
SCALE: 3/4" = 1'-0"



TRANSITION SLAB, FOUNDATION WALL, & FOOTING DETAIL
SCALE: 1/4" = 1'-0"



SECTION B
SCALE: 3/4" = 1'-0"



SECTION C
SCALE: 3/4" = 1'-0"

ALABAMA LICENSED ENGINEER
No. 36284
BRYAN A. COOLEY
4-26-22

LANCE R. LEFLEUR
DIRECTOR



Alabama Department of Environmental Management
adem.alabama.gov

1400 Coliseum Blvd. 36110-2400 ■ Post Office Box 301463
Montgomery, Alabama 36130-1463
(334) 271-7700 ■ FAX (334) 271-7950

KAY IVEY
GOVERNOR

October 22, 2021

TONY KENNON
CITY OF ORANGE BEACH
4099 ORANGE BEACH BLVD.
ORANGE BEACH, AL 36561

RE: GNSSP20AL0006-01-00 Canal Road Improvements From SR-161 To Wilson Blvd
Baldwin County (003)

Dear Mr. Kennon:

Based on your request, coverage under **General NPDES Permit Number ALR10C1KB** is granted. The effective date of coverage is October 22, 2021.

Coverage under this permit does not authorize the discharge of any pollutant or wastewater that is not specifically identified in the permit and by the Notice of Intent.

You are responsible for compliance with all provisions of the permit including, but not limited to, the performance of required inspections and/or monitoring, and the preparation and implementation of a Construction Best Management Practices Plan (CBMPP) required by the permit.

The Alabama Department of Environmental Management encourages you to exercise pollution prevention practices and alternatives at your facility. Pollution prevention will assist you in complying with permit requirements.

A copy of the General NPDES Permit under which coverage of your discharges has been granted is enclosed. If you have any questions concerning this permit, please contact Stephanie Fontaine by email at stephanie.fontaine@adem.alabama.gov or by phone at (334) 274-4249.

Sincerely,

A handwritten signature in black ink that reads "Jeffery W. Kitchens".

Jeffery W. Kitchens, Chief
Water Division

Birmingham Branch
110 Vulcan Road
Birmingham, AL 35209-4702
(205) 942-6168
(205) 941-1603 (FAX)

Decatur Branch
2715 Sandlin Road, S.W.
Decatur, AL 35603-1333
(256) 353-1713
(256) 340-9359 (FAX)



Mobile Branch
2204 Perimeter Road
Mobile, AL 36615-1131
(251) 450-3400
(251) 479-2593 (FAX)

Mobile-Coastal
3664 Dauphin Street, Suite B
Mobile, AL 36608-1211
(251) 304-1176
(251) 304-1189 (FAX)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM GENERAL PERMIT

DISCHARGE AUTHORIZED: DISCHARGES FROM CONSTRUCTION ACTIVITIES THAT RESULT IN A TOTAL LAND DISTURBANCE OF ONE ACRE OR GREATER AND SITES LESS THAN ONE ACRE BUT ARE PART OF A COMMON PLAN OF DEVELOPMENT OR SALE

AREA OF COVERAGE: THE STATE OF ALABAMA

PERMIT NUMBER: ALR10C1KB

RECEIVING WATERS: ALL WATERS OF THE STATE OF ALABAMA

In accordance with and subject to the provisions of the Federal Water Pollution Control Act, as amended, 33 U.S.C. §§1251-1378 (the "FWPCA"), the Alabama Water Pollution Control Act, as amended, Code of Alabama 1975, §§ 22-22-1 to 22-22-14 (the "AWPCA"), the Alabama Environmental Management Act, as amended, Code of Alabama 1975, §§22-22A-1 to 22-22A-15, and rules and regulations adopted thereunder, and subject further to the terms and conditions set forth in this permit, the Permittee is hereby authorized to discharge into the above-named receiving waters.

ISSUANCE DATE: March 12, 2021

EFFECTIVE DATE: April 1, 2021

EXPIRATION DATE: March 31, 2026



Table of Contents

PART I: Coverage Under This General Permit	1
A. Permit Coverage	1
B. Eligibility.....	1
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PART I: Coverage Under This General Permit

A. Permit Coverage

This permit authorizes, subject to the conditions of this permit, discharges associated with construction activity that will result in land disturbance equal to or greater than one (1) acre or from construction activities involving less than one (1) acre and which are part of a common plan of development or sale equal to or greater than one (1) acre occurring on or before, and continuing after the effective date of this permit, except for discharges identified under Part I.C. of the permit.

B. Eligibility

1. Allowable Stormwater Discharges

This permit authorizes the following stormwater discharges:

- (a) Stormwater associated with construction activities defined in Part I.A. of this permit;
- (b) The following stormwater discharges have been determined by the Director to require coverage under this permit:
 - (i) Sites, irrespective of size, whose stormwater discharges have a reasonable potential to be a significant contributor of pollutants to a water of the State, as determined by the Department;
 - (ii) Sites, irrespective of size, whose stormwater discharges have a reasonable potential to cause or contribute to a violation of an applicable Alabama water quality standard as determined by the Department.
- (c) Discharges from construction support activities provided:
 - (i) The support activity is solely related to the construction site covered under this permit;
 - (ii) The support activity is not an operation serving multiple unrelated construction projects and does not operate beyond the completion of the construction activity at the construction project it supports;
 - (iii) The support activity is located in close proximity (two-mile radius) to the construction site covered under this permit, or as otherwise approved by the Department;
 - (iv) Stormwater controls are implemented in accordance with Part III for discharges from the support activity area; and
 - (v) Pollutant discharges from support activity areas are minimized to the maximum extent practicable and do not pose a reasonable potential to exceed applicable water quality standards.

2. Allowable Non-Stormwater Discharges

This permit authorizes the following non-stormwater discharges provided the non-stormwater component of the discharge is in compliance with Part III.D.:

- (a) Discharges from fire-fighting activities;
- (b) Fire hydrant flushings;
- (c) Water used to wash vehicles and equipment where detergents are not used;
- (d) Water used to control dust;
- (e) Potable water including uncontaminated water line flushings not associated with hydrostatic testing;
- (f) Routine external building wash down associated with construction that does not use detergents;
- (g) Pavement wash waters where spills or leaks of toxic or hazardous materials have not occurred (unless all spilled material has been removed) and where detergents are not used. The operator is prohibited from directing pavement wash waters directly into any surface water, storm drain inlet, or stormwater conveyance, unless the conveyance is connected to a sediment basin, sediment trap, or similarly effective control;
- (h) Uncontaminated air conditioning or compressor condensate associated with temporary office trailers and other similar buildings;
- (i) Uncontaminated, non-turbid discharges of ground water or spring water;
- (j) Foundation or footing drains where flows are not contaminated with process materials such as solvents; and
- (k) Landscape irrigation.

C. Exempt Discharges

1. Coverage under this permit is not required for the following:
 - (a) Animal feeding operation (AFO) or concentrated animal feeding operation (CAFO) construction activity that has been granted NPDES registration coverage pursuant to Chapter 335-6-7;
 - (b) Normal agricultural; and
 - (c) Silvicultural activities.
2. Coverage under this permit is not required for discharges associated with minor land disturbing activities such as the following:
 - (a) Home gardens or individual home landscaping;
 - (b) Home repairs and/or maintenance;
 - (c) Fence installation or maintenance;
 - (d) Directional boring, hand hole digging; and
 - (e) Guardrail, shoulder, and minor improvements associated with roadway pavement resurfacing.

D. Prohibited Discharges

The following discharges associated with construction are not authorized by this permit:

1. Stormwater discharges that are mixed with sources of non-stormwater unless such stormwater discharges are:
 - (a) In compliance with a separate NPDES permit, or
 - (b) Determined by the Department not to be a contributor of pollutants to waters of the State.
2. Stormwater discharges currently covered under another NPDES permit;
3. Discharges from coal/metallic mining, dry processing, wet processing, and areas associated with these activities;
4. Wastewater from washout of concrete, unless managed by an appropriate control (Wastewater from Concrete Batch Plants are prohibited unless such discharges are authorized by and in compliance with a separate NPDES permit);
5. Wastewater from washout and cleanout of stucco, paint, form release oils, curing compounds, and other construction materials;
6. Fuels, oils, or other pollutants used in vehicle and equipment operation and maintenance;
7. Soaps or solvents used in vehicle and equipment washing;
8. Discharges from dewatering activities, including discharges of ground water or accumulated stormwater from dewatering of trenches, excavations, foundations, vaults, or other similar points of accumulation, unless managed by appropriate controls;
9. Discharges to surface waters from sediment basins or impoundments, unless an outlet structure that withdraws water from the surface, unless infeasible, is utilized;
10. Discharges where the turbidity of such discharge will cause or contribute to a substantial visible contrast with the natural appearance of the receiving water;
11. Discharges where the turbidity of such discharge will cause or contribute to an increase in the turbidity of the receiving water by more than 50 NTUs above background. For the purposes of determining compliance with this limitation, background will be interpreted as the natural condition of the receiving water without the influence of man-made or man-induced causes. Turbidity levels caused by natural runoff will be included in establishing background levels;
12. Discharges of any pollutant into any water for which a total maximum daily load (TMDL) has been finalized or approved by EPA unless the discharge is consistent with the TMDL;
13. Discharges to waters listed on the most recently approved 303(d) list of impaired streams unless the discharge will not cause or contribute to the listed impairment; and
14. Toxic or hazardous substances from a spill or release.

PART II: Notice of Intent (NOI) Requirements

A. Deadlines for Notices of Intent

Any person wishing to obtain coverage under this general permit shall submit an NOI in accordance with the following schedule:

1. Any person wishing to be permitted to discharge under this general permit shall submit a complete NOI and appropriate fee prior to the initiation of construction activity;
2. Any Permittee authorized to discharge under the 2016 NPDES Construction General Permit, who wishes to continue to discharge upon the expiration of that permit, shall submit a complete NOI to be covered by this reissued General Permit. Such NOI shall be submitted at least 30 days prior to the expiration date of the 2021 NPDES Construction General Permit; and
3. Failure of the Permittee to submit a complete NOI for reauthorization under this permit at least 30 days prior to the previous permit's expiration will void the automatic continuation of the authorization to discharge under that permit as provided by ADEM Admin. Code r. 335-6-6-.06. Should the permit not be reissued for any reason prior to its expiration date, Permittees who failed to meet the 30-day submittal deadline will be illegally discharging without a permit after the expiration date of the 2016 NPDES Construction General Permit.

B. Continuation of the Expired General Permit

If this permit is not reissued or replaced prior to the expiration date, it will be administratively continued in accordance with the ADEM Administrative Code Chapter 335-6-6 and remain in force and in effect if the Permittee submits an updated and complete NOI meeting the requirements of Part II.C. at least 30 days prior to the expiration of this permit. Any Permittee who was granted permit coverage prior to the expiration date will automatically remain covered by the continued permit until the earlier of:

1. Reissuance or replacement of this permit, at which time the Permittee must comply with the Notice of Intent conditions of the new permit to maintain authorization to discharge; or
2. Issuance of an individual permit; or
3. A formal permit decision by the Department not to reissue this general permit, at which time the Permittee must seek coverage under an alternative general permit or an individual permit.

C. Contents of the Notice of Intent (NOI)

1. The NOI shall include:
 - (a) The correct fee pursuant to ADEM Admin. Code R. 335-1, Fee Schedule D;
 - (b) A general description of the construction activity for which coverage is desired, which shall be in sufficient detail to allow the Department to determine that the stormwater and non-stormwater discharges are included in the authorized discharges category of this general permit;
 - (c) The latitude and longitude, to the nearest second, for the entrance to the construction site, each outfall for which coverage under this general permit is desired. For the purposes of this requirement the entrance to the construction site will be identified as the primary point of access by normal vehicle traffic. For linear projects, the latitude and longitude, to the nearest second, should be provided for the starting and ending point of the project boundaries;
 - (d) Identification of the waterbodies receiving discharges for which coverage under this general permit is desired;
 - (e) A portion or copy of a recent map or series of maps (e.g., USGS quadrangle map or LIDAR contour map) at an appropriate contour interval, including perennial, intermittent, and ephemeral streams/lakes/springs/wetlands. Several maps/pages may be necessary depending on the size and scope of the project;
 - (f) The map(s) at a minimum must include the following, which should be clearly identified (please include a key for symbols and a scale) on the map(s):
 - (i) Site/project boundaries;
 - (ii) Proposed permit boundaries;
 - (iii) Property boundaries (non-linear project only);
 - (iv) Area(s) of disturbance;
 - (v) One (1) mile radius;
 - (vi) Entrance(s)/Exit(s);

- (vii) Outfall(s);
 - (viii) Receiving stream(s); and
 - (ix) Begin and End Project Locations (Linear project only).
- (g) A current plat map for subdivisions and/or common plans of development or sale;
 - (h) A facility contact person, address, and phone number for the site to be covered under the general permit.
 - (i) For priority construction sites, the NOI must be accompanied by a copy of the CBMPP prepared and certified by a Qualified Credentialed Professional (QCP) as required by Part III.E.
 - (j) The number of estimated disturbed acres and total site acreage.
 - (k) The estimated start and completion dates of project.
 - (l) Provide a list of all treatment chemicals anticipated to be used at the site, including the most recent published Safety Data Sheets (SDS) and the dosage(s) to be used and the location(s) where these materials will be applied. If this information is not known at the time of the NOI submittal, the information shall be submitted to the Department through an information update as timely as possible and update the CBMPP as required by Part III.E.5.
2. The NOI shall be signed by a person meeting the requirements for signatories under ADEM Admin. Code r. 335-6-6-.09, and the person signing the NOI shall make the certification required for submission of documents under ADEM Admin Code r. 335-6-6-.09(4).
 3. The NOI shall be signed by a QCP and shall have the following certification statement: "I certify under penalty of law that a comprehensive Construction Best Management Practices Plan (CBMPP) for the prevention and minimization of all sources of pollution in stormwater and authorized related process wastewater runoff has been prepared under my supervision for this site/activity, and associated regulated areas/activities. The CBMPP meets the requirements of this permit and if properly implemented and maintained by the operator, discharges of pollutants in stormwater runoff can reasonably be expected to be effectively minimized to the maximum extent practicable according to the requirements of ADEM Administrative Code r. 335-6-6-.23 and this Permit. The CBMPP describes the erosion and sediment control measures that must be fully implemented and regularly maintained as needed at the permitted site in accordance with sound sediment and erosion control practices to ensure the protection of water quality."

D. Submittal of Documents

The Permittee must complete and submit the NOI electronically, using the Department’s Alabama Environmental Permitting and Compliance System (AEPACS), unless the Permittee submits in writing valid justification as to why the electronic submittal process cannot be utilized and the Department approves in writing the utilization of hard copy submittals. The AEPACS can be accessed at the following link: <http://adem.alabama.gov/AEPACS>. Permit requests for initial issuance and modifications of the existing permit should all be submitted through the AEPACS system.

E. Additional Permittees (Co-Permittee) Under a Single NOI

Multiple operators conducting regulated land disturbances in a common plan of development may jointly submit an NOI. An NOI covering multiple operators must include a site plan clearly describing each operator’s areas of operational control.

F. Authorization to Discharge

1. Except as otherwise limited by Part II.F.2 or II.F.3, the operator is authorized to discharge in accordance with the requirements of this permit upon the Department’s receipt of a complete and timely NOI which meets the requirements of this permit and ADEM Admin. Code r. 335-6-6-.23.
2. Coverage under this permit is conditionally granted, and the requirement to submit an NOI is suspended for governmental agencies and utilities for construction activity associated with immediate and effective emergency repairs and response to natural disasters, human health or environmental emergencies, or to avert/avoid imminent, probable, or irreparable harm to the environment or severe property damage. The operator or controlling/participating federal, State, or local government agencies/entities conducting emergency construction activity shall document the emergency condition, ensure compliance with the requirements of this permit to the extent possible, and shall notify the Department as promptly as possible regarding the occurrence of the emergency construction disturbance and measures that have been implemented and are being implemented to protect water quality. Unless the requirement to obtain a permit pursuant to the requirements of this permit are suspended or voided by the Director on a categorical or individual emergency basis, the operator shall submit the appropriate project information, NOI, and the required application fee for construction or reconstruction activity after emergency repairs have been accomplished, according to a schedule acceptable to the Department.

3. For priority construction sites, the operator is authorized to discharge thirty (30) days from the Department's receipt of a complete and technically adequate NOI and CBMPP meeting the requirements of Parts II.C. and III.E, unless, within thirty (30) days from the Department's receipt of the NOI, the Department notifies the operator that additional time is needed to review the NOI and CBMPP. Where the operator receives such notification from the Department, that operator may not discharge until the Department formally acknowledges receipt of a complete and technically adequate NOI and CBMPP.

PART III: Stormwater Pollution Prevention Requirements

The stormwater control requirements in this Part are the technology-based, non-numeric effluent limitations and conditions that apply to all discharges from construction projects eligible for coverage under this permit. These requirements apply the national effluent limitations guidelines and new source performance standards found at 40 CFR Part 450.

Where the requirements in this Part are stricter than any corresponding federal, State, or local requirements, the requirements in this permit take precedence.

A. Erosion Controls and Sediment Controls

The Permittee shall design, install, and maintain effective stormwater controls, erosion controls, and sediment controls appropriate for site conditions. To meet this requirement, the following factors shall be accounted for in designing controls:

1. The nature of stormwater runoff and run-on at the site, including factors such as expected flow from impervious surfaces, slopes, and site drainage features;
2. Control stormwater volume and velocity within the site to minimize soil erosion;
3. Control stormwater discharges, including both peak flowrates and total stormwater volume, to minimize channel and streambank erosion and scour in the immediate vicinity of points of discharge;
4. The soil series and range of soil particle sizes expected to be present on the site;
5. Complete installation of stormwater controls by the time each phase of construction activities has begun;
 - (a) By the time construction activity in any given portion of the site begins, install and make operational any downgradient sediment controls (e.g., buffers, perimeter controls, storm drain inlet protection, etc.) that control discharges from the initial site clearing, grading, excavating, and other earth-disturbing activities; and
 - (b) Following the installation of these initial controls, install and make operational all stormwater controls needed to control discharges prior to subsequent earth-disturbing activities.
 - (c) The requirement to install stormwater controls prior to each phase of construction activities for the site does not apply to the earth disturbance associated with the actual installation of these controls. Operators should take all reasonable actions to minimize the discharges of pollutants during the installation of stormwater controls.
6. Ensure that all stormwater controls are properly implemented, maintained, and remain in effective operating condition during permit coverage and are protected from activities that would reduce their effectiveness;
7. Minimize the amount of soil exposed and the duration of exposure during construction activity through the use of project phasing, sequence of construction, or other appropriate techniques;
8. Provide and maintain a 25-foot natural riparian buffer around surface waters as discussed in detail in Part III.B.;
9. Implement measures or requirements to achieve the pollutant reductions consistent with a TMDL finalized or approved by EPA. Applicable TMDLs are located and/or can be accessed at the following link:
<http://adem.alabama.gov/programs/water/approvedTMDLs.htm>
10. Minimize the disturbance of steep slopes;
11. Minimize sediment discharges from the site;
12. Minimize the generation of dust through the appropriate application of water or other dust suppression techniques;
13. Minimize all stream crossings;
14. Minimize sediment track-out:
 - (a) Use appropriate stabilization techniques at all construction entrances and exits onto paved roads;
 - (b) Restrict vehicle use to properly designated entrances and exits;
 - (c) Implement and maintain additional track-out controls as necessary to ensure that sediment removal occurs prior to vehicle exit; and
 - (d) Sediment that has been tracked-out from site onto paved roads, sidewalks, or other paved areas outside of site boundaries should be removed by the end of the same business day and/or normal operating hours. Removal shall be by sweeping, shoveling, or vacuuming the surfaces. Removal by hosing or sweeping tracked out sediment into any stormwater conveyance, storm drain inlet, or water of the State is prohibited.

15. Protect storm drain inlets, where applicable:
 - (a) Install storm drain inlet protection measures that remove coarse sediment particles from discharges prior to entry into any storm drain inlet that routes stormwater flow from the site and/or to a water of the State to further prevent sediment discharges; and
 - (b) Clean, remove, and replace protection measures as sediment accumulates as often as is necessary to ensure full effectiveness of protection measures and/or that performance is not compromised.
16. Direct stormwater to vegetated areas to increase sediment removal and maximize stormwater infiltration, unless infeasible;
17. Minimize soil compaction.
18. Preserve and protect topsoil for use in vegetation establishment;
19. Manage stockpiles or land clearing debris composed, in whole or in part, of sediment and/or soil:
 - (a) Locate the stockpiles outside of any natural buffers established under Part III.B., and away from any stormwater conveyances, storm drain inlets, and areas where stormwater flow is concentrated;
 - (b) Install a sediment barrier along all downgradient areas;
 - (c) Stockpiles that will not be used for 13 days or more, provide cover or appropriate temporary stabilization;
20. Sediment basin, impoundments, or detention/retention basins used as a sediment basin during construction shall be installed and stabilized prior to commencement of other construction activities:
 - (a) Locate the basin or impoundment outside of any water of the State;
 - (b) Design basin or impoundment to provide appropriate storage for 3,600 cubic feet per acre drained;
 - (c) Utilize outlet structures that withdraw water from the surface of the sediment basin or impoundment;
 - (d) Use erosion controls and velocity dissipation devices to prevent erosion at inlets and outlets; and
 - (e) Remove accumulated sediment to maintain at least one-half of the design capacity and conduct all other appropriate maintenance to ensure basin or impoundment remains in effective operating condition.
21. Treatment chemicals (e.g. polymers, flocculants, coagulants):
 - (a) Use conventional erosion and sediment controls before and after the application of treatment chemicals. Treatment chemicals may only be applied where treated stormwater is directed to a sediment control practice (e.g., sediment basin, perimeter control) that allows for on-site particle settlement before final discharge;
 - (b) Select appropriate treatment chemicals. Chemicals must be appropriately suited to the soil likely to be exposed during construction and present in the discharges being treated (i.e., the expected turbidity, pH, and flow rate of the stormwater flowing into the chemical treatment system or area);
 - (c) Ensure proper chemical storage of all treatment chemicals, such as in leak-proof containers, spill proof pallets, covered storage, or in secondary containment designed and maintained to minimize the potential discharge of treatment chemicals in stormwater or by any other means; and
 - (d) Use chemicals in accordance with good engineering practices and specification of the chemical provider/supplier. Use treatment chemicals and chemical treatment systems in accordance with dosing specifications and sediment removal design specification provided by the provider/supplier of the applicable chemicals.
22. Additional Design Requirements
 - (a) Sediment control measures, erosion control measures, and other site management practices must be properly selected based on site-specific conditions and must meet or exceed the technical guidance outlined in the Alabama Handbook and the site-specific CBMPP prepared in accordance with Part III.E;
 - (b) Unless specified otherwise by the Alabama Handbook, sediment control measures, erosion control measures, and other site management practices shall be designed and maintained to minimize erosion and maximize sediment removal resulting from a 2-year, 24-hour storm event.; and
 - (c) The Permittee is encouraged to design the site, the erosion prevention measures, sediment control measures, and other site management practices with consideration of minimizing stormwater runoff, both during and following construction, including facilitating the use of low-impact development (LID) and green infrastructure. The Alabama Low Impact Development Handbook for the State of Alabama (LID Handbook) can be found at the following link: <http://adem.alabama.gov/programs/water/waterforms/LIDHandbook.pdf>

B. Provide Natural Riparian Buffers or Equivalent Sediment Controls

Natural riparian buffer requirements apply to all waters of the State adjacent to construction sites or contained within their overall project boundary. A 25-foot natural riparian buffer zone adjacent to all waters of the State at the construction site shall be preserved, to the maximum extent practicable, during construction activities at the site. The natural riparian buffer should be preserved between the top of stream bank and the disturbed construction area. The water quality buffer zone aids in the protection of waters of the State (e.g., perennial and intermittent streams, rivers, lakes, wetlands) located within or immediately adjacent to the boundaries of the project. Natural riparian buffers are not primary sediment control measures and should not be relied on as such. The natural riparian buffer requirement applies to new construction sites, or new additional acreage not previously covered by the initial permit.

1. Compliance Alternatives

- (a) Provide and maintain a 25-foot undisturbed natural riparian buffer;
 - (i) If land disturbances are located 25 feet or farther from surface water, then compliance with this alternative has been achieved.
 - (ii) Rehabilitation and enhancement of a natural riparian buffer is allowed, if necessary, for improvement for its effectiveness of protection of the waters of the State.
 - (iii) Any preexisting structures (e.g., buildings, parking lots, roadways, utility lines, structures, impervious surfaces) are allowed in the natural riparian buffer; provided the Permittee retains and protects from disturbance any additional natural buffer area contained within the natural riparian buffer but outside the preexisting structures footprint.
 - (b) Provide and maintain an undisturbed natural riparian buffer that is less than 25 feet and is supplemented by additional erosion and sediment controls, which in combination achieves the sediment load reduction equivalent to a 25-foot undisturbed natural riparian buffer;
 - (c) If it is infeasible to provide and maintain an undisturbed natural riparian buffer of any size, the Permittee must implement erosion and sediment controls that achieve the sediment load reduction equivalent to a 25-foot undisturbed natural riparian buffer;
 - (d) All discharges from the area of earth disturbance to the natural riparian buffer must first be treated by erosion and sediment control on the site. Velocity dissipation devices should be used if necessary to prevent erosion caused by stormwater within the natural riparian buffer;
 - (e) All compliance alternatives must be documented in the CBMPP and comply with all requirements. The natural riparian buffer boundary should be indicated on the site plan;
 - (f) Compliance alternatives must be maintained throughout the duration of permit coverage; and
 - (g) All natural riparian buffer areas should be delineated and clearly marked off with flags, tape, or similar marking device.
2. If there is no discharge of stormwater to waters of the State through the areas between the construction site and any waters of the State located within 25 feet of the construction site, compliance with this requirement is achieved;
 3. Where no natural riparian buffer exists due to preexisting development disturbances (e.g., buildings, parking lots, roadways, utility lines, structures, impervious surfaces) that occurred prior to the initiation of planning for the current development of the site, the Permittee is not required to comply with the requirements in this section, unless portions of the preexisting development will be removed;
 4. Where some natural riparian buffer exists but portions of the area within 25 feet of the waters of the State are occupied by preexisting development disturbances (e.g., buildings, parking lots, roadways, utility lines, structures, and impervious surfaces), the Permittee is required to comply with the requirements in this section. Only the portion of the buffer zone that contains the footprint of the existing “structure” is exempt from the natural riparian buffer. Activities necessary to maintain uses are allowed provided that no additional vegetation is removed from the natural riparian buffer;
 5. For “linear construction projects” the Permittee is not required to comply with the requirements in this section if site constraints (e.g., limited right-of-way) prevent the Permittee from meeting any of the compliance alternatives provided that, to the extent practicable, disturbances within 25 feet of the water of the State are limited and/or supplemental erosion and sediment controls to treat stormwater discharges from earth disturbances within 25 feet of the waters of the State are provided. It must be documented in the CBMPP as to why compliance with this section is infeasible and describe any buffer width retained and/or supplemental erosion and sediment controls installed; and

6. The following disturbances within 25 feet of a water of the State are exempt from the requirements in this Part:
 - (a) Construction approved under a CWA Section 404 permit; or
 - (b) Construction of a water-dependent structure or water access area (e.g., pier, boat ramp, seawall, bridge, drainage structure, trail, etc.)

C. Soil Stabilization

The Permittee should minimize, as feasible, the area disturbed to maintain the natural soil cover for stability. The Permittee must stabilize the exposed bare soil portions of the site:

1. Implement and maintain stabilization measures (e.g., seeding protected by erosion controls until vegetation is established, sodding, mulching, erosion control blankets, hydromulch, gravel) that minimize erosion from exposed portions of the site.
2. Temporary stabilization of disturbed areas must be initiated immediately whenever work toward project completion and final stabilization of any portion of the site has temporarily ceased on any portion of the site and will not resume for a period exceeding thirteen (13) calendar days.
3. Final stabilization of disturbed areas must, at a minimum, be initiated immediately whenever any clearing, grading, excavating, or other earth disturbing activities have permanently ceased on any portion of the site.
4. The requirement to initiate stabilization immediately is triggered as soon as you know that construction work on a portion of the site is temporarily ceased and will not resume for more than thirteen (13) calendar days, or as soon as you know that construction work has permanently ceased. In the context of this provision, “immediately” means as soon as practicable, but no later than the end of the next business day, following the day when the construction activities have temporarily or permanently ceased.
5. Both temporary and permanent vegetation shall be completed as provided by the guidance in the Alabama Handbook.

D. Pollution Prevention Measures

The Permittee must design, install, implement, and maintain effective pollution prevention measures to minimize the discharge of pollutants. At a minimum, such measures must be designed, installed, implemented, and maintained to:

1. Provide an effective means of minimizing the discharge of pollutants from equipment and vehicle washing, wheel wash water, concrete washout, washing applicators and/or containers used for stucco, paint, concrete, or other compounds/materials and other wash waters;
 - (a) Wash waters must be treated in a sediment basin or alternative control (e.g., sediment trap, filtration device, filter bags, or similar effective controls) that provides equivalent or better treatment prior to discharge;
 - (b) Liquid waste shall not be directly discharged into storm sewers;
 - (c) Washout and cleanout activities should be located as far away as possible from surface waters, natural buffer areas, stormwater inlets, and conveyances; and
 - (d) For storage of soaps, detergents, or solvents, provide either (1) cover (e.g., plastic sheeting or temporary roofs) to minimize exposure of these detergents to precipitation and to stormwater or (2) a similarly effective means designed to minimize the discharge of pollutants from these areas.
2. Provide an effective means of minimizing the exposure of building materials, building products, construction wastes, trash, landscape materials, fertilizers, pesticides, herbicides, detergents, sanitary waste, and other materials present on the site to precipitation and to stormwater;
 - (a) Provide either (1) cover (e.g., plastic sheeting or temporary roofs) to minimize exposure of these detergents to precipitation and to stormwater or (2) a similarly effective means designed to minimize the discharge of pollutants from these areas;
 - (b) Provide waste containers (e.g., dumpster, trash receptacle) of sufficient size and number to contain construction wastes;
 - (c) Locate waste containers as far away as possible from waters of the State and stormwater inlets or conveyances so that stormwater coming into contact with these activities cannot reach water of the State;
 - (d) For sanitary waste, position portable toilets so that they are on level ground and are located as far away as possible from waters of the State and stormwater inlets or conveyances; and
 - (e) Comply with all application and disposal requirements included on the fertilizer, pesticide, herbicide, or detergent label.

3. Provide an effective means of minimizing the discharge of pollutants caused by spills and leaks from, including but not limited to, vehicles, mechanical equipment, chemical storage, and refueling activities;
 - (a) Locating activities away from waters of the State and stormwater inlets or conveyances so that stormwater coming into contact with these activities cannot reach water of the State;
 - (b) Providing secondary containment and cover where appropriate;
 - (c) Ensure adequate supplies are available at all times to handle spills, leaks, and disposal of used liquids. Have a spill kit available on site and ensure personnel are available and trained to respond expeditiously in the event of a leak or spill; and
 - (d) Clean up spills or contaminated surfaces immediately (do not clean contaminated surfaces by hosing the area down) and eliminate the source of the spill to prevent a discharge or a continuation of an ongoing discharge.
4. Apply treatment chemicals at the site only where treated stormwater is directed to a sediment control (e.g., sediment basin, perimeter control) that allows for on-site particle settlement before final discharge.

E. Construction Best Management Practices Plan (CBMPP)

1. Except as provided by Part II.F.2, construction activity may not commence until a CBMPP has been prepared in a format acceptable to the Department and certified by a QCP as adequate to meet the requirements of this permit;
2. The NOI and CBMPP must be prepared in accordance with the requirements of this permit by the QCP prior to commencing construction at a new construction site or prior to continued construction at an existing construction site, or as otherwise required by the Director;
3. The Permittee shall properly implement and regularly maintain the controls, practices, devices, and measures specified in the CBMPP;
4. The CBMPP shall include:
 - (a) A general description of the construction site activity, including:
 - (i) The function of the construction site activity (e.g. residential subdivision, shopping mall, highway, etc.); and
 - (ii) Identification of all known operators of the construction site and the areas of the site over which each operator has control.
 - (b) A description of the intended sequence of major activities which disturb soils, including but not limited to, grubbing, excavation, and/or grading. The sequence shall be accomplished in a manner which minimizes the area disturbed at any one time and minimizes the duration that the areas are disturbed;
 - (c) Estimates of the total area expected to be disturbed by grubbing, excavation, and/or grading, including offsite borrow and fill areas (if areas are to be included in permit coverage);
 - (d) A detailed description (including but not limited to site specific dimensions, storage capacity, and drainage calculations are required for engineered BMPs) of the erosion controls, sediment controls, and management practices to be implemented at the site during each sequence of activity in accordance with Part III.A;
 - (e) A clear outline and identification of the 25-foot natural riparian buffer for all sites that discharge directly to waters of the State and where a water of the State lies within the boundaries of the project;
 - (f) A detailed description of controls needed to meet State water quality standards, waste load allocations, or other measures necessary for consistency with applicable TMDLs finalized or approved by EPA;
 - (i) Provide a calculation based on the control measures to be implemented for the pollutant of concern to confirm the controls as designed in the CBMPP meet the required percent reduction for the applicable TMDL;
 - (ii) Reduction capabilities shall assume the control measures have been appropriately installed and maintained. See Part III.L.2.
 - (g) A detailed description of BMPs needed to prevent or eliminate discharges of sediment and other pollutants of concern from priority construction sites;
 - (h) A description of temporary and permanent stabilization practices, including a schedule and/or sequence for implementation;
 - (i) A description of energy or flow velocity dissipation devices at discharge locations and along the length of any outfall channel;

- (j) Identification of all allowable sources of non-stormwater discharges listed in Part I.B.2, except for flows from firefighting activities that are or may be combined with stormwater discharges associated with construction activity at the site;
 - (k) A description of the pollution prevention measures used to manage non-stormwater discharges;
 - (l) A description of the best management practices to be installed during site construction and operated and maintained following final stabilization at sites where the post-construction volumes or velocities of stormwater runoff are significantly different from conditions existing prior to the construction activity;
 - (m) A listing of all treatment chemicals to be used at the site, including Safety Data Sheets (SDS), the dosage(s) to be used and the location(s) where these materials will be used;
 - (n) The most recent site topographic map (e.g. USGS quadrangle map or LIDAR contour map) at an appropriate contour interval, clearly showing:
 - (i) Sufficient detail to identify the location of the construction site;
 - (ii) Existing topography and drainage patterns and features, existing structures proposed roads, utilities, rights-of-way (ROWs), and waterbodies;
 - (iii) Drainage patterns and approximate slopes anticipated after major grading activities;
 - (iv) The external and internal (if subdivided) property boundaries of the project;
 - (v) Areas to be disturbed by excavation, grading, or other activities;
 - (vi) Identification of sediment control measures, erosion control measures, planned stabilization measures, and other site management practices;
 - (vii) Locations of all waters of the State within a one (1) mile radius of the site;
 - (viii) Locations of wetlands and riparian zones; and
 - (ix) Locations of all outfalls.
 - (o) A description of procedures for:
 - (i) Sweeping or removal and proper disposal or utilization of sediment and other debris that has been tracked from the site or deposited from the site onto streets and other paved surfaces;
 - (ii) Removal and proper disposal or utilization of sediment or other pollutants that have accumulated in or near any sediment control measures, stormwater conveyance channels, storm drain inlets, or water course conveyance within or immediately outside of the construction site; and
 - (iii) Removal and proper disposal or utilization of accumulated sediment that has been trapped by sediment control measures at the site, in accordance with applicable maintenance requirements covered under this permit;
 - (p) A description of the procedures for handling and disposing of wastes generated at the site, including, but not limited to, clearing and demolition debris, sediment removed from the site, construction and domestic waste, hazardous or toxic waste, and sanitary waste.
5. Maintain an Updated CBMPP
- (a) The CBMPP shall be updated as necessary to address changes in the construction activity, site weather patterns, new TMDLs finalized or approved by EPA, new 303(d) listings approved by EPA, or manufacturer specifications for specific control technologies;
 - (b) The CBMPP shall be amended if inspections or investigations by site staff or by local, state, or federal officials determine that the existing sediment control measures, erosion control measures, or other site management practices are ineffective or do not meet the requirements of this permit. All necessary modifications to the CBMPP shall be made within seven (7) calendar days following notification of the inspection unless granted an extension of time by the Department;
 - (c) If existing sediment control measures, erosion control measures, or other site management practices prove ineffective in protecting water quality or need to be modified; or if additional sediment control measures, erosion control measures, or other site management practices are necessary to meet the requirements of this permit, implementation shall be completed as soon as possible, but not to exceed five (5) days of the observation or site inspection unless prevented by unsafe weather conditions. If unsafe weather conditions are present, they should be documented. If implementation before the next storm event is impracticable, then new land disturbance activities must cease until the modified or additional controls can be implemented; and

- (d) A copy of the CBMPP shall be maintained at the site during normal operating hours as defined by Part V of this permit when regulated land disturbing activities are occurring.

F. Spill Prevention, Control, and Management

1. The Permittee shall prepare, implement, and maintain a Spill Prevention, Control and Countermeasures (SPCC) Plan in accordance with 40 CFR Part 112 and ADEM Admin Code r.335-6-6-.12(r) for all applicable onsite petroleum storage tanks;
2. The Permittee shall prepare, implement, and maintain a SPCC Plan in accordance with ADEM Admin Code r.335-6-6-.12(r) for any stored pollutant(s) that may, if spilled, be reasonably expected to enter a water of the state or the collection system for a publicly or privately owned treatment works;
 - (a) The SPCC Plan(s) shall be maintained as a separate document or as part of the CBMPP Plan required in Part III.E. above;
 - (b) The Permittee shall implement appropriate structural and/or non-structural spill prevention, control, and/or management sufficient to prevent any spills of pollutants from entering a water of the State or a publicly or privately owned treatment works. The plan(s) must be consistent with the requirements of 40 CFR Part 112 and/or ADEM Admin Code r.335-6-6-.12(r). Any containment system used to implement this requirement shall be constructed of materials compatible with the substance(s) contained and of materials which shall prevent the contamination of groundwater and shall be capable of retaining 110 percent of the volume of the largest container of pollutants for which the containment system is provided;
 - (c) The Permittee shall maintain onsite or have readily available sufficient oil & grease absorbing material and flotation booms to contain and clean-up fuel or chemical spills and leaks; and
 - (d) Soil contaminated by paint or chemical spills, oil spills, etc. must be immediately cleaned up, remediated, or be removed and disposed of in a Department approved manner.
3. Discharges of toxic or hazardous substances from a spill to other release or prohibited, consistent with Part I.D.
 - (a) Where a leak, spill, or other release containing a hazardous substance or oil in an amount equal to or in excess of a reportable quantity established under either 40 CFR 110, 40 CFR 117, or 40 CFR 302 occurs during a 24-hour period, the National Response Center (NRC) must be notified at (800) 424-8802, in accordance with the requirements of 40 CFR 110, 40 CFR 117, or 40 CFR 302 as soon as the Permittee has knowledge of the release; and
 - (b) Within five (5) calendar days of knowledge of the release, the Permittee must provide a description of the release, the circumstances leading to the release, and the date of the release.

G. Training

Unless the Permittee has employed or contracted with a QCP that performs duties as required by this permit, and the QCP is readily available and able to be present onsite as often as is necessary to ensure full compliance with the requirements of this permit, the Permittee shall ensure that:

1. At least one onsite employee shall be certified as a Qualified Credentialed Inspector (QCI) by completing an initial training and annual refresher training course through an ADEM-approved Qualified Credentialed Inspector Program (QCIP) conducted by a cooperating training entity;
2. The QCIP must be approved by the Department prior to use and provide training in the following areas:
 - (a) The applicable requirements of the Alabama NPDES rules;
 - (b) The requirements of this permit;
 - (c) The evaluation of construction sites to ensure that erosion controls and sediment controls designed and certified by a QCP detailed in a site-specific CBMPP are effectively implemented and maintained;
 - (d) The evaluation of conveyance structures, receiving waters, and adjacent impacted offsite areas to ensure the protection of water quality and compliance with the requirements of this permit; and
 - (e) The general operation of a turbidity meter or similar device intended for the measurement of turbidity.
3. Each individual holding a QCI Certification need not be on-site continuously and they may conduct site inspections at multiple sites permitted by them or their employer;
4. Each individual holding QCI certification shall obtain annual certification of satisfactory completion of formal refresher education or training regarding general erosion controls and sediment controls, the requirements of this permit, and the general operation of a turbidity meter or similar device intended for the measurement of turbidity. The refresher training

requirements, including but not limited to, appropriate curricula, course content, course length, and any participant testing, shall be subject to acceptance by the Director prior to use.

H. Inspection Requirements

1. Pre-Construction Observations

- (a) A pre-construction site inspection shall be conducted prior the placement of any BMPs, or the commencement of land disturbing activities.
- (b) Pre-construction site inspection shall consist of a complete and comprehensive inspection of the entire proposed construction site including all proposed areas of land disturbance, proposed areas used for storage of materials that may be exposed to precipitation, affected ditches, and other stormwater conveyances, as well as all proposed outfalls, receiving waters and stream banks to determine if there are pre-existing areas of concern.
- (c) Pre-construction inspections shall be conducted by the QCP, or by a qualified person under the direct supervision of a QCP;
- (d) The inspection shall be documented and made available to the Department upon request;
- (e) Pre-construction inspection shall include dated electronic photographic documentation of all areas described in paragraph (b) above; and
- (f) The Permittee shall maintain record of the pre-construction site inspection pursuant to Part IV.K.

2. Daily Observations

- (a) Each day there is activity at the site, the Permittee shall visually observe that portion of the construction project where active disturbance, work, or construction occurred to note any rainfall measurements occurring since the previous observation and any apparent BMP deficiencies in the area of active disturbance;
- (b) Such daily observations may be performed by appropriate site personnel; and
- (c) The Permittee shall maintain a log of all daily observations and record in such log any rainfall measurements and BMP deficiencies observed.

3. Site Inspections

- (a) Site inspections shall be performed by a QCI, QCP, or a qualified person under the direct supervision of a QCP;
- (b) A site inspection shall consist of a complete and comprehensive observation of the entire construction site including all areas of land disturbance, areas used for storage of materials that are exposed to precipitation, equipment storage and maintenance areas, affected ditches and other stormwater conveyances, as well as all outfalls, receiving waters, and stream banks to determine if, and ensure that:
 - (i) Effective erosion controls and sediment controls have been fully implemented and maintained in accordance with this permit, the site CBMPP, and the Alabama Handbook;
 - (ii) Pollutant discharges are being prevented/minimized; and
 - (iii) Discharges do not result in a contravention of applicable State water quality standards for the receiving stream(s) or other waters impacted or affected by the Permittee.
- (c) For non-linear projects, a site inspection shall be performed once each month and after any qualifying precipitation event since the last inspection, commencing as promptly as possible, but no later than 24-hours after resuming or continuing active construction or disturbance and completed no later than 72-hours following the qualifying precipitation event;
- (d) For linear projects, a site inspection shall be performed at least once a month and after any qualifying precipitation event since the last inspection, beginning as promptly as possible, but no later than 24-hours after resuming or continuing active construction or disturbance and completed no later than five (5) days after the qualifying precipitation event, on areas of active construction and/or where perennial vegetation has not been fully established, or meeting the definition of final stabilization;
- (e) A site inspection shall also be performed as often as is necessary until any poorly functioning erosion controls or sediment controls, non-compliant discharges, or any other deficiencies observed during a prior inspection are corrected and documented as being in compliance with the requirements of this permit;
- (f) On all active disturbance, dredging, excavation, or construction undertaken or located within the banks of a waterbody, including but not limited to, equipment/vehicle crossings, pipelines, or other transmission line installation, conveyor structure installation, and waterbody relocation, streambank stabilization, or other alterations, a site inspection shall

be performed at least once a week and as often as is necessary until the disturbance/activity impacting the waterbody is complete and reclamation or effective stormwater quality remediation is achieved;

- (g) The inspection shall be recorded in a written format acceptable to the Department. The inspection record shall include:
- (i) The site name and location, date and entry/exit time, outfall identification(s), date, time and exact place of any turbidity sampling performed;
 - (ii) The name(s) of person(s) who performed the inspection and/or obtained any turbidity samples or measurements;
 - (iii) The analytical results of any samples or measurements performed;
 - (iv) A description of any sampling and analytical techniques or methods used, including source of method and method number;
 - (v) Weather conditions at the time of the inspection;
 - (vi) Description of any discharges of sediment or other pollutants from the site;
 - (vii) Locations of discharges of sediment or other pollutants from the site;
 - (viii) Locations of BMPs that need repair, replacement and/or maintenance;
 - (ix) Locations of BMPs that failed to operate as designed;
 - (x) Locations where BMPs required by the CBMPP are not installed or installed in a manner inconsistent with the CBMPP; and
 - (xi) Locations where additional BMPs are needed that did not exist at the time of the inspection. This requirement is applicable only to site inspections performed by a QCP or qualified persons under the direct supervision of a QCP.
- (h) Results of all required inspections shall be available for inspection no later than 15 days following the date of the inspection, monitoring, or sampling; and
- (i) Reports shall be legible and bear an original signature or in the case of electronic reports, an electronic signature.

4. CBMPP Evaluations

- (a) The QCP shall perform an onsite evaluation of all erosion and sediment controls being implemented for adequacy and consistency with site conditions;
- (b) The CBMPP evaluation shall be performed as often as necessary until poorly functioning or damaged erosion controls or sediment controls are corrected and, at a minimum, once every three (3) months for a priority construction site or once every six (6) months for non-priority construction site;
- (c) If, based on the CBMPP evaluation, the QCP identifies any needed modifications or additions to erosion and sediment controls, the CBMPP shall be updated in accordance with Part III.E.4; and
- (d) The Permittee shall maintain appropriate documentation of the CBMPP evaluation.

I. Corrective Action

1. Any poorly functioning erosion controls or sediment controls, non-compliant discharges, or any other deficiencies observed during daily observations or site inspections required under Part III.H, shall be corrected as soon as possible, but not to exceed five (5) days of the observation or site inspection unless prevented by unsafe weather conditions. If unsafe weather conditions are present, they should be documented.
2. In the event of a breach of a sediment basin/pond temporary containment measures shall be taken within 24 hours after the inspection. Permanent corrective measures shall be implemented within five (5) days of the inspection. However, if permanent corrective measures cannot be implemented within the timeframes provided herein the Permittee shall notify the Department; and
3. The operator shall promptly take all reasonable steps to remove, to the maximum extent practical, pollutants deposited offsite or in any waterbody or stormwater conveyance structure.

J. Suspension of Monitoring

Suspension of applicable monitoring and inspection requirements for phased projects or developments may be granted provided:

1. The Department is notified in writing at least thirty (30) days prior to the requested suspension;

2. The Permittee and the QCP certify in the request that all disturbance has been graded, stabilized, and/or fully vegetated or otherwise permanently covered, and that appropriate, effective steps have been and will be taken by the Permittee to ensure compliance with the requirements of this permit and commit that these measures will remain continually effective until the permit is properly terminated;
3. The request should be accompanied by a construction stormwater inspection report confirming permanent stabilization of all previously disturbed areas, including material storage areas, and associated support activities. In addition, photo documentation may be submitted for confirmation purposes; and
4. The Permittee notifies the Department in writing within fifteen (15) days prior to resumption of disturbance or commencement of the next phase of development and the Permittee complies with the requirements of this Permit prior to commencement of additional disturbance.

K. Precipitation Measurement

1. The Permittee shall measure and record all precipitation occurring at the construction site (including rainfall and snowfall). Precipitation measurements must be representative of the Permittee's site. Records shall be maintained and available for inspection.
2. Precipitation measurements should be read and recorded during normal operating hours, even if no precipitation occurs. To facilitate determination of a qualifying precipitation event, the measuring device or method should have a scale that is readable to 0.5 inches or smaller unit.
3. Recording of rainfall outside of normal operating hours may be read and recorded on the next business day and noted as "accumulated." If the outside of normal operating hours accumulation is greater than 0.75 inches, a qualifying rainfall event inspection must occur regardless of whether that accumulation occurred over 24 hours, as described in Part III.H.
4. Precipitation measurements shall be taken using one or more of the following:
 - (a) Continuous recorders,
 - (b) Daily readings of an onsite rain gauge,
 - (c) Daily readings of an offsite precipitation gauge located adjacent to or in close proximity (for non-linear projects a maximum one (1) mile distance) to the facility, or
 - (d) Other measurement devices acceptable to the Department (e.g., online resources).

L. Impaired Waters and Total Maximum Daily Load (TMDL) Waters

1. Permittees discharging from construction sites into waters included on the latest EPA Approved §303(d) List or designated by the Department as impaired.
 - (a) The Permittee must determine whether the discharge from any part of the construction site contributes directly or indirectly to a waterbody that is included on the latest EPA Approved §303(d) List or designated by the Department as impaired.
 - (b) If the construction site discharges either directly or indirectly to a waterbody included on the latest EPA Approved §303(d) List or designated by the Department as impaired, then the CBMPP must detail the BMPs that are being utilized to control discharges of pollutants of concern associated with the impairment of the waterbody.
 - (c) The Permittee must demonstrate the discharges, as controlled by the Permittee, and in conjunction with the implementation of the CBMPP, do not cause or contribute to the impairment of the waterbody.
 - (d) If during this permit cycle a new EPA Approved §303(d) List is published, or Department designation, includes any waterbody into which the construction site discharges, the Permittee and QCP must review the CBMPP and the site to determine if existing BMPs are sufficient and discharges do not cause or contribute to the impairment of the waterbody. If existing BMPs are not sufficient to achieve this demonstration, the Permittee must, within sixty (60) days following the publication of the latest final §303(d) List, Department designation, or the effective date of this permit, submit a revised CBMPP detailing new or modified BMPs. The CBMPP must be revised as directed by the Department and the new or modified BMPs must be implemented within ninety (90) days from the publication of the latest final §303(d) list or Department designation.
2. Permittees discharging from construction sites into waters with EPA-Approved TMDLs and/or EPA-Established TMDLs
 - (a) The Permittee must determine whether its construction site discharges to a waterbody for which a TMDL has been established or approved by EPA.
 - (b) If a construction site discharges into a water body with an EPA approved or established TMDL, then the CBMPP must include BMPs targeted to control the discharges of pollutants of concern and to meet the assumptions and requirements

of the TMDL. If additional BMPs will be necessary to meet the requirements of the TMDL, the CBMPP must include a schedule for installation and/or implementation of such BMPs.

- (c) If, during this permit cycle, a TMDL is approved by EPA or a TMDL is established by EPA for any waterbody into which a construction site discharges, the Permittee must review the applicable TMDL to see if it includes requirements for control of storm water discharges from the construction site.
- (d) If it is found that the Permittee must implement specific allocations of the TMDL, it must assess whether the assumptions and requirements of the TMDL are being met through implementation of existing BMPs or if additional BMPs are necessary. The CBMPP must include BMPs targeted to meet the assumptions and requirements of the TMDL. If existing BMPs are not sufficient, the Permittee must, within sixty (60) days following the approval or establishment of the TMDL by EPA, submit a revised CBMPP detailing new or modified BMPs to be utilized along with a schedule of installation and/or implementation of such BMPs. Any new or modified BMPs must be implemented within ninety (90) days, unless an alternate date is approved by the Department, from the establishment or approval of the TMDL by EPA.

PART IV: Standard and General Permit Conditions

A. Duty to Comply

1. The Permittee must comply with all terms and conditions of this permit. Any permit noncompliance constitutes a violation of the AWPCA and the FWPCA and is grounds for: enforcement action, termination, or suspension of coverage under this permit; denial of a NOI for renewal; a requirement that the Permittee submit an application for an individual NPDES permit.
2. For any violation(s) of this Permit, the Permittee may be subject to a civil penalty as authorized by the AWPCA, the FWPCA, and Code of Alabama 1975, §§22-22A-1 et. seq., as amended, and/or a criminal penalty as authorized by Code of Alabama 1975, §22-22-1 et. seq., as amended.
3. The discharge of a pollutant from a source not specifically identified in the NOI to be covered under this Permit and not specifically included in the description of an outfall (where applicable) in this permit is not authorized and shall constitute noncompliance with this permit.
4. Nothing in this Permit shall be construed to preclude or negate the Permittee's responsibility or liability to apply for, obtain, or comply with other ADEM, federal, state, or local government permits, certifications, licenses, or other approvals.

B. Duty to Reapply

1. The Permittee authorized to discharge under this General Permit, who wishes to continue to discharge upon the expiration of this permit, shall submit a NOI to be covered by the reissued General Permit. Such NOI shall be submitted at least 30 days prior to the expiration date of this General Permit.
2. Failure of the Permittee to submit a complete NOI for reauthorization under this permit at least 30 days prior to the permit's expiration will void the automatic continuation of the authorization to discharge under this permit as provided by ADEM Admin. Code r. 335-6-6-.06. Should the permit not be reissued for any reason prior to its expiration date, Permittees who failed to meet the 30-day submittal deadline will be illegally discharging without a permit after the expiration date of the permit.

C. Need to Halt or Reduce Activity Not a Defense

It shall not be a defense for the Permittee in an enforcement action that it would have been necessary to halt or reduce construction activities in order to maintain compliance with the conditions of the permit.

D. Duty to Mitigate

The Permittee shall take all reasonable steps to mitigate or prevent any violation of the permit or to minimize or prevent any adverse impact of any permit violation.

E. Proper Operation and Maintenance

The Permittee shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the Permittee to achieve compliance with the conditions of this permit. Proper operation and maintenance includes effective performance, adequate funding, adequate operator staffing and training, and adequate laboratory and process controls, including appropriate quality assurance procedures. This provision requires the operation of backup or auxiliary facilities only when necessary to achieve compliance with the conditions of this permit.

F. Permit Modification, Revocation and Reissuance, Suspension, and Termination

1. During the term of this General Permit the Director may, for cause, and subject to the public notice procedure of ADEM Administrative Code r. 335-6-6-21, modify or revoke and reissue this General Permit. The causes for this action include the causes listed below:
 - (a) When the Director receives any information that was not available at the time of permit issuance and that would have justified the application of different permit conditions at the time of issuance;
 - (b) When the standards or regulations on which the permit was based have been changed by promulgation of amended standards or regulations or by judicial decision after the permit was issued;
 - (c) Upon failure of the state to notify, as required by Section 402(b)(3) of the FWPCA, another state whose waters may be affected by a discharge;
 - (d) When the level of discharge of any pollutant which is not limited in the permit exceeds the level which can be achieved by the technology based treatment requirements appropriate to the discharge under 40 CFR 125.3(c)(1994);

- (e) To correct technical mistakes, such as errors in calculations, or mistaken interpretations of the law made in determining permit conditions;
 - (f) When the permit limitations are found not to be protective of water quality standards; or
 - (g) For any applicable cause set forth in 40 CFR Sections 122.61, 122.62, 122.63, and 122.64 (1994).
2. Subject to the public notice procedures of rule 335-6-.6-21, the Director may terminate this General Permit during its term for any of the causes for modification listed in ADEM Admin Code r. 335-6-6-.23(7)(a).
 3. The Director may terminate coverage of a discharge under this general permit for cause. Cause shall include, but not be limited to, noncompliance with Department rules; or a finding that the general permit does not control with wastewater discharge sufficiently to protect water quality or comply with treatment-based limits applicable to the discharge.
 4. Any person may petition the Director for withdrawal of this General Permit authority from a discharger. The Director shall consider the information submitted by the petitioner and any other information he may be aware of and may obtain additional information from the discharger and through inspections by Department staff and shall decide if coverage should be withdrawn. The petitioner shall be informed of the Director's decision and shall be provided a summary of the information considered.

G. Property Rights

This permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to persons or property or invasion of other private rights, or any infringement of federal, state, or local laws or regulations, nor does it authorize or approve the construction of any physical structures or facilities or the undertaking of any work in any waters of the State or of the United States.

H. Duty to Provide Information

1. The Permittee shall furnish to the Director, within a reasonable time, any information which the Director may request to determine whether cause exists for modifying, revoking and re-issuing, suspending, or terminating this permit or to determine compliance with this Permit. The Permittee shall also furnish to the Director upon request, copies of records required to be kept by this Permit.
2. The Permittee shall inform the Director in writing of any change in the Permittee's mailing address or telephone number or in the Permittee's designation of a facility contact or officer having the authority and responsibility to prevent and abate violations of the AWPCA, the Department's rules and the terms and conditions of this permit no later than ten (10) days after such change. Upon request of the Director, the Permittee shall furnish an update of any information provided in the NOI.
3. If the Permittee becomes aware that it failed to submit any relevant facts in the NOI; or submitted incorrect information in the NOI; or in any report to the Director, it shall promptly submit such facts or information with a written explanation for the mistake and/or omission.
4. All information and/or documents required to be submitted to the Department by this general permit shall be submitted via the AEPACS, which can be accessed at the following link, <http://adem.alabama.gov/AEPACS>, or delivered to the following address: Alabama Department of Environmental Management Water Division, Stormwater Management Branch, Post Office Box 301463, Montgomery, Alabama 36130-1463, or 1400 Coliseum Boulevard, 36110-2400, Montgomery, Alabama.

I. Inspection and Entry

The Permittee shall allow the Director, or an authorized representative, upon the presentation of credentials and other documents as may be required by law to:

1. Enter upon the Permittee's premises where a regulated activity is located or conducted, or where records must be kept under the conditions of this Permit;
2. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this Permit;
3. Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this Permit; and
4. Sample or monitor at reasonable times, for the purposes of assuring permit compliance or as otherwise authorized by the AWPCA, any activities, substances or parameters at any location.

J. Noncompliance Notification

1. The Permittee must notify the Department if, for any reason, the Permittee's discharge:
 - (a) Potentially threatens human health or welfare;
 - (b) Threatens fish or aquatic life;
 - (c) Causes an in-stream water quality criterion as stated in ADEM. Admin. Code Ch. 335-6-10 to be exceeded;
 - (d) Does not comply with an applicable toxic pollutant effluent standard or prohibition established under Section 307(a) of the FWPCA, 33 U.S.C. §1317(a); or
 - (e) Contains a quantity of a hazardous substance which has been determined may be harmful to the public health or welfare under Section 311(b)(4) of the FWPCA, 33 U.S.C. §1321(b)(4).
2. The Permittee shall orally report the occurrences, describing the circumstances and potential effects of such discharge to the Director no later than 24-hours after the Permittee becomes aware of the occurrence of such discharge. In addition to the oral report, the Permittee shall submit to the Director a written report as provided in Part IV.J.3 below, no later than five (5) days after becoming aware of the occurrence of such discharge.
3. The written report shall be in a format acceptable to the Department and shall include:
 - (a) A description of the noncompliant event, its cause, if known, and location;
 - (b) The period of noncompliance, including exact dates and times or, if not corrected, the anticipated time the noncompliance is expected to continue; and
 - (c) A description of the steps taken and/or being taken to reduce or eliminate the noncomplying discharge and to prevent its recurrence.

K. Retention of Records

1. The Permittee shall retain records of all inspection records, monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation, copies of all reports required by the permit, and records of all data used to complete such reports, for a period of at least three (3) years from the date of the inspection, sample measurement, or report. This period may be extended by request of the Director at any time. If litigation or other enforcement action, under the AWPCA and/or the FWPCA, is ongoing which involves any of these records, the records shall be kept until the litigation is resolved.
2. All records required to be kept for a period of three (3) years shall be kept at the permitted facility or an alternate location identified to the Department in writing and shall be available for inspection upon request.

L. Signatory Requirements

The NOI and all reports or information submitted to the Director shall be signed and certified according to the requirement of ADEM Admin Code r. 335-6-6-.09. Where required by this Permit, documents will also be signed by a QCP or QCI.

M. Transfers

This Permit may not be transferred without notice to the Director and subsequent modification or revocation and reissuance of this Permit. In the case of a change in name, ownership, or control of the Permittee's premises, a request for permit modification in a format acceptable to the Director is required within fifteen (15) days of the change occurring.

N. Bypass

Any bypass of erosion controls, sediment controls, or any other stormwater management/treatment controls specified in the CBMPP is prohibited except as provided by ADEM Admin Code r. 335-6-6-.12(m).

O. Upset

1. Effect of an Upset. An upset constitutes an affirmative defense to an action brought for noncompliance with technology-based permit limitation if the requirements of subparagraph 335-6-6-.12(n)2. are met.
2. Conditions Necessary for Demonstration of an Upset. A Permittee who wishes to establish the affirmative defense of an upset shall demonstrate through properly signed, contemporaneous operating logs, or other relevant evidence that:
 - (a) An upset occurred and that the Permittee can identify the specific cause(s) of the upset;
 - (b) The treatment facility was at the time being properly operated;
 - (c) The Permittee submitted notice of the upset as required in subparagraph 335-6-6-.12(l)6.; and

(d) The Permittee complied with any remedial measures required under paragraph 335-6-6-.12(d).

3. Burden of Proof. In any enforcement proceeding the Permittee seeking to establish the occurrence of an upset has the burden of proof.

P. Severability

The provisions of this permit are severable, and if any provision of this permit or the application of any provision of this permit to any circumstance is held invalid, the application of such provision to other circumstances, and the remainder of this permit shall not be affected thereby.

Q. Issuance of an Individual Permit

The Director may require the Permittee to obtain an individual permit for discharges covered by this permit in accordance with ADEM Admin. Code r. 335-6-6-.23(9).

R. Request for Individual Permit by General Permit Holder

1. Any person covered by this General Permit may apply for termination of coverage by applying for an individual NPDES permit.
2. A permit application submitted voluntarily or at the direction of the Director for the purpose of termination of coverage by this General Permit shall be processed in accordance with the rules found in ADEM Admin. Code Ch. 335-6-6 applicable to individual permits.

S. Termination of Coverage

1. The Director may suspend or terminate coverage under this permit for cause without the consent of the Permittee. Cause shall include, but not be limited to, noncompliance with this permit or the applicable requirements of Department rules, or a finding that this permit does not control the stormwater discharge sufficiently to protect water quality.

2. Voluntary Notice of Termination – Initiated by Permittee

The Permittee must submit a Notice of Termination (NOT) request electronically, using the Department’s AEPACS at <http://adem.alabama.gov/AEPACS> , within thirty (30) days of one of the following conditions:

- (a) Final stabilization as defined in Part V has been achieved on all portions of the site;
- (b) Another operator has assumed control over all areas of the site that have not achieved final stabilization and the new operator has submitted an NOI for coverage under this permit; or
- (c) Coverage under an individual permit or alternative general permit has been obtained.

3. Content of the Voluntary Notice of Termination

- (a) The Permittee name, permit number, and location of the site;
- (b) Certification by the Permittee and the QCP that all construction activity covered by this permit has been completed, all temporary BMPs have been removed and final stabilization has been achieved; or
- (c) Identification, including complete contact information, of the person that has assumed legal or operational control over the construction site.
 - (i) Loss of operational control does not relieve the operator from liability and responsibility for compliance with the provisions of this permit until the complete and correct request for termination is received by the Department.
 - (ii) Sale or transfer of operational responsibility for the site by the operator prior to the succeeding operator obtaining permit coverage required by this chapter does not relieve the operator from the responsibility to comply with the requirements of this permit.

T. Facility Identification

The Permittee shall post and maintain sign(s) at the front gate/entrance, and if utility installation, where project crosses paved county, State, or federal highways/roads, and/or at other easily accessible location(s) to adequately identify the site prior to commencement of and during NPDES construction until permit coverage is properly terminated. Such sign shall be legible and display the name of the Permittee, “ADEM NPDES ALR10” followed by the four-digit NPDES permit number, facility or project name, and other descriptive information deemed appropriate by the Permittee.

U. Schedule of Compliance

The Permittee shall achieve compliance with the requirements of this permit on the effective date of coverage under this permit.

V. Discharge of Wastewater Generated by Others

The discharge of wastewater generated by any process, facility, or by any other means not under the operational control of the Permittee or not identified in the application for this permit or not identified specifically in the description of an outfall in this permit is not authorized by this permit except as allowed by Part I.

W. Compliance with Water Quality Standards and Other Provisions

1. On the basis of the Permittee's application, plans, or other available information, the Department has determined that compliance with the terms and conditions of this Permit will assure compliance with applicable water quality standards. However, this Permit does not relieve the Permittee from compliance with applicable State water quality standards established in ADEM Admin. Code Ch. 335-6-10, and does not preclude the Department from taking action as appropriate to address the potential for contravention of applicable State water quality standards which could result from discharges of pollutants from the permitted facility.
2. Compliance with Permit terms and conditions notwithstanding, if the Permittee's discharge(s) cause(s) or contribute(s) to a condition in contravention of State water quality standards, the Department may require abatement action to be taken by the Permittee, modify the Permit pursuant to the Department's rules and regulations, or both.
3. If the Department determines, on the basis of any investigation, inspection, or sampling, that a modification of this Permit is necessary to assure maintenance of water quality standards or compliance with other provisions of the AWPCA or FWPCA, the Department may require such modification and, in cases of emergency, the Director may prohibit the noticed act until the Permit has been modified.

X. Civil and Criminal Liability

1. Tampering: Any person who falsifies, tampers with, or knowingly renders inaccurate any monitoring device or method required to be maintained or performed under this Permit shall, upon conviction, be subject to penalties and/or imprisonment as provided by the AWPCA and/or the AEMA.
2. False Statements: Any person who knowingly makes any false statement, representation, or certification in any record or other document submitted or required to be maintained under this Permit, including monitoring reports or reports of compliance or noncompliance shall, upon conviction, be punished as provided by applicable State and federal law.
3. Permit Enforcement: This NPDES Permit is a Permit for the purpose of the AWPCA, the AEMA, and the FWPCA, and as such all terms, conditions, or limitations of this Permit are enforceable under State and federal law.
4. Relief From Liability: Except as provided in Part IV.M. (Bypass) and Part IV.N. (Upset), nothing in this Permit shall be construed to relieve the Permittee of civil or criminal liability under the AWPCA, AEMA, or FWPCA for noncompliance with any term or condition of this Permit.

Y. Oil and Hazardous Substance Liability

Nothing in this Permit shall be construed to preclude the institution of any legal action or relieve the Permittee from any responsibilities, liabilities, or penalties to which the Permittee is or may be subject to under Section 311 of the FWPCA, 33 U.S.C. §1321.

Z. Availability of Reports

Except for data determined to be confidential under Code of Alabama 1975, §22-22-9(c), all reports prepared and submitted in accordance with the terms of this Permit shall be available for public inspection at the offices of the Department or the Department's electronic filing system (eFile) at <http://app.adem.alabama.gov/eFile/>. Effluent data shall not be considered confidential. Knowingly making any false statement in any such report may result in the imposition of criminal penalties as provided for in Section 309 of the FWPCA, 33 U.S.C. §1319, and Code of Alabama 1975, §22-22-14.

AA. Coastal Zone Management for Baldwin and Mobile Counties

1. Except for those activities described in Part IV.AA.2 below, this permit is conditionally consistent with the Alabama Coastal Area Management Plan (ACAMP) upon continued compliance with the ACAMP.
2. The Permittee shall obtain, as appropriate, a coastal permit or coastal consistency determination from the Department if any activity constitutes a use as described in ADEM Admin. Code r. 335-8-1-.08, 335-8-1-.09, 335-8-1-.10 or 335-8-1-.11.

BB. Removed Substances

Solids, sludges, or any other pollutants or other wastes removed in the course of treatment or control of stormwater shall be disposed of in a manner that complies with all applicable Department rules and regulations.

CC. Compliance with Statutes and Rules

1. This permit has been issued under ADEM Admin. Code Ch. 335-6-6. All provisions of this chapter, that are applicable to this permit, are hereby made a part of this permit. A copy of this chapter can be found on the ADEM website at: <http://adem.alabama.gov/alEnviroRegLaws/files/Division6Voll.pdf>
2. This permit does not authorize the noncompliance with or violation of any Laws of the State of Alabama or the United States of America or any regulations or rules implementing such laws. FWPCA, 33 U.S.C. Section 1319, and Code of Alabama 1975, Section 22-22-14.

PART V: Definitions

2-year, 24-hour storm event means the maximum 24-hour precipitation event with a probable recurrence interval of once in two years as defined by the National Weather Service and Technical Paper No. 40, "Rainfall Frequency Atlas of the U.S.," May 1961, or equivalent regional or rainfall probability information developed there from.

24-hour precipitation event means that amount of precipitation which occurs within any 24-hour period.

AEMA means the Alabama Environmental Management Act, Code of Alabama 1975, §§ 22-22A-1, et seq.

Alabama Handbook means the current edition of the Alabama Handbook for Erosion Control, Sediment Control, and Stormwater Management on Construction Sites and Urban Areas, published by the Alabama Soil and Water Conservation Committee (ASWCC) at the time permit coverage is obtained.

ADEM means the Alabama Department of Environmental Management.

Agricultural Practices means practices commensurate with the size of the farming operation that are implemented in a manner that meet or exceed Natural Resources Conservation Service technical standards and guidelines, including but not limited to, farm ponds that are constructed for the primary purpose of irrigation and/or watering of livestock, terraces, grassed waterways, vegetative filter strips, cropland grade stabilization measures, drainage tiles, underground outlets, land leveling, dike/diversion structures, and other grade stabilization structures.

AWPCA means the Alabama Water Pollution Control Act.

Best Management Practices or BMPs means implementation and continued maintenance of appropriate structural and non- structural practices and management strategies to prevent and minimize the introduction of pollutants to stormwater and to treat stormwater to remove pollutants prior to discharge.

Borrow Area "Pit" means the activity of removing material (soil, gravel, sand) from one area to use in another area. For the purposes of this permit, this activity is solely in conjunction with the project requesting permit coverage and the material is not to be sold for profit. The borrow area and associated activity shall be located within a two-mile radius of the project requesting permit coverage to be considered as part of the project and will open and close with the project requesting permit coverage.

Chronic and Catastrophic Precipitation means precipitation events which may result in failure of the properly designed, located, implemented, and maintained BMPs or other structure/practices required by this permit. Catastrophic precipitation conditions means any single event of significant total volume, or of increased intensity and shortened duration, that exceeds normally expected or predicted precipitation over the time period that the disturbance is planned or is ongoing, as determined by the Department. Catastrophic conditions could also include tornadoes, hurricanes, or other climatic conditions which could cause failure due to winds or mechanical damage. Chronic precipitation is also that series of wet-weather conditions over a limited time-period which does not provide any opportunity for emergency maintenance, reinstallation, and corrective actions and which equals or exceeds the volume of normally expected or predicted precipitation for the time period that the disturbance is planned or is ongoing.

Common Plan of Development or Sale means any announcement or piece of documentation (e.g., sign, public notice, or hearing, sales pitch, advertisement, drawing, permit application, zoning request, computer design, etc.) or physical demarcation (e.g., boundary signs, lot stakes, surveyor markings, etc.) indicating construction activities may occur on a specific plot.

Construction means any land disturbance or discharges of pollutants associated with, or the result of building, excavation, land clearing, grubbing, placement of fill, grading, blasting, reclamation, areas in which construction materials are stored in association with a land disturbance or handled above ground and other associated areas including, but not limited to, construction site vehicle parking, equipment or supply storage areas, material stockpiles, temporary office areas, and access roads. Construction also means significant pre-construction land disturbance activities performed in support or in advance of construction activity including, but not limited to, land clearing, excavation, removal of existing buildings, dewatering, and geological testing. For the purposes of this Permit, any activity related to mining operations is excluded.

Construction Activity means the disturbance of soils associated with clearing, grading, excavating, filling of land, or other similar activities which may result in soil erosion. For the purposes of this Permit, construction activity does not include mining operations, agricultural and silvicultural practices. However, construction activity does include the construction of agricultural buildings.

Construction Best Management Practices Plan (CBMPP) means any research, planning considerations, systems, procedures, processes, activities, and practices implemented for the prevention and/or minimization of pollutants in stormwater to the maximum extent practicable, and collection, storage, treatment, handling, transport, distribution, land application, or disposal of construction stormwater and onsite management of construction waste generated by the construction activity, and to comply with the requirements of this permit. The CBMPP shall be prepared and certified, and when necessary updated by a qualified credentialed professional (QCP) in accordance with the requirements of this permit.

Construction Site means any site regardless of size where construction or construction associated activity has commenced, or is continuing, and associated areas, including sites where active work is suspended or has ceased, until the activity is completed and effective reclamation and/or stormwater quality remediation has been achieved.

Construction Support Activity a construction-related activity that specifically supports the construction activity solely related to the construction site covered under this permit and involves earth disturbance or pollutant-generating activities of its own, and may include activities including but not limited to equipment staging yards, materials storage areas, excavated material disposal areas, and temporary borrow areas.

Construction Waste means construction and land disturbance generated materials, including but not limited to, waste chemicals, sediment, trash, debris, litter, garbage, construction demolition debris, land clearing and logging slash, or other materials or pollutants located or buried at the site prior to disturbance activity or that is generated at a construction site.

Control Measure refers to any Best Management Practice or other method used to prevent or reduce the discharge of pollutants to waters of the State.

CWA or The Act means the Clean Water Act (formerly referred to as the Federal Water Pollution Control Act or Federal Water Pollution Control Act Amendments of 1972) Pub.L. 92-500, as amended Pub. L. 95-217, Pub. L. 95-576, Pub. L. 96-483 and Pub. L. 97-117, 33 U.S.C. 1251 et.seq.

Department means the Alabama Department of Environmental Management or an authorized representative.

Director means the Director of the Department or his designee.

Discharge, "[t]he addition, introduction, leaking, spilling or emitting of any sewage, industrial waste, pollutant or other waste into waters of the State." Code of Alabama 1975, §22-22-1(b)(8).

EPA refers to the U.S. Environmental Protection Agency.

Ephemeral Stream means a stream or portion of a stream which flows briefly in direct response to precipitation in the immediate vicinity and whose channel is at all times above the ground-water reservoir.

Facility see the definition for construction site

Final Stabilization means the application and establishment of the permanent ground cover (vegetative, pavements of erosion resistant hard or soft material, or impervious structures) planned for the site to permanently eliminate soil erosion to the maximum extent practicable. Established vegetation will be considered final if 100% of the soil surface is uniformly covered in permanent vegetation with a density of 85% or greater. Permanent vegetation shall consist of planted trees, shrubs, perennial vines; and/or an agricultural or a perennial crop of vegetation appropriate for the region and accomplished according to the Alabama Handbook. Final stabilization applies to each phase of construction.

FWPCA means the Federal Water Pollution Control Act

Green Infrastructure refers to systems and practices that use or mimic natural processes to infiltrate, evapotranspire (the return of water to the atmosphere either through evaporation or by plants), or reuse storm water or runoff on the site where it is generated.

Intermittent Stream means a stream where portions flow continuously only at certain times of the year. At low flow there may be dry segments alternating with flowing segments.

Linear Project means land disturbing activities conducted by an underground /overhead utility or highway department, including, but not limited to any cable line or wire for the transmission of electrical energy; any conveyance pipeline for transportation of gaseous or liquid substance; any cable line or wire for utility communications; or any other energy resource transmission ROW or utility infrastructure, e.g., roads and highways. Activities include the construction and installation of these utilities within a corridor. Linear project activities also include the construction of access roads, staging areas, and borrow/spoil sites associated with the linear project.

Low Impact Development or LID is an approach to the maintenance of predevelopment hydrology in land development (or re- development) that works with nature to manage storm water as close to its source as possible. LID employs principles such as preserving and recreating natural landscape features, minimizing effective imperviousness to create functional and appealing site drainage that treat storm water as a resource rather than a waste product.

Maximum extent practicable (MEP) means full implementation and regular maintenance of available industry standard technology and effective management practices, such as those contained in the Alabama Handbook and site-specific CBMPP, designed to prevent and/or minimize discharges of pollutants and ensure protection of groundwater and surface water quality.

Mining Operations shall mean all or any part of the process of recovering coal, lignite, iron, clay, sand, bauxite, gravel, ores, gold, marble or any other material or mineral by removal of such mineral from the surface or by removal or displacement of the strata or material which overlies such mineral deposits in its natural condition, and shall include but not be limited to the open-pit or open-cut method, the auger method, and the highwall mining method. For the purposes of this permit, mining operations are commercial operations that do not meet the definition of a construction support activity. Additionally, this permit does not cover pre-mining construction and land preparation, including but not limited to, clearing, grubbing, testing, and advanced prospecting in advance of mining activity/operations.

Minor Land Disturbing Activities means activities which will result in minor soil erosion such as home gardens or individual home landscaping, repairs, maintenance work, fences, routine maintenance and other related activities.

National Pollutant Discharge Elimination System "NPDES" means the national program for issuing, modifying, revoking, and reissuing, terminating, monitoring, and enforcing permits for the discharge of pollutants into waters of the State.

Natural Buffer (Riparian buffer) means a strip of dense undisturbed perennial native vegetation, either original or re-established, that borders streams and rivers, ponds and lakes, and wetlands. Buffer zones are established for the purposes of slowing water runoff, enhancing water infiltration, and minimizing the risk of any potential nutrients or pollutants from leaving the upland area and reaching surface waters. Natural buffers help stabilize streambanks and therefore are important in minimizing production of sediment from bank erosion. The importance increases in relation to the size of the stream. Buffer zones are most effective when stormwater runoff is flowing into and through the buffer zone as shallow sheet flow, rather than in concentrated form such as in channels, gullies, or wet weather conveyances.

Nephelometric Turbidity Unit or NTU means a numerical unit of measure based upon photometric analytical techniques for measuring the light scattered by fine particles of a substance in suspension.

New Construction Site means any initial construction or construction activity covered under this General Permit where the disturbance begins after the effective date of this permit. This includes subsequent phases of a previously permitted development.

Non-stormwater Discharges means discharges that do not originate from storm events. They can include, but are not limited to, discharges of process water, air conditioner condensate, non-contact cooling water, vehicle wash water, sanitary wastes, concrete washout water, paint wash water, irrigation water, or pipe testing water.

Normal Operating Hours means from 6:00 a.m. to 6:00 p.m., Monday through Friday, excluding federal holidays established pursuant to 5 U.S.C. § 6103. Normal operating hours also include any time when workers are present or when construction activity is occurring, regardless of the particular day or time of day.

NOI means Notice of Intent.

Operator means any person or other entity that owns, operates, directs, conducts, controls, authorizes, approves, determines, or otherwise has responsibility for, or exerts financial control over the commencement, continuation, or daily operation of activity regulated by this permit. An operator includes any person who treats and discharges stormwater, or in the absence of treatment, the person who generates and/or discharges stormwater, or pollutants. An operator may include but may not be limited to, property owners, agents, general partners, LLP partners, LLC members, leaseholders, developers, builders, contractors, or other responsible or controlling entities.

Outfall means the location where stormwater in a discernible, confined and discrete conveyance leaves a facility or construction site prior to discharging into the receiving water.

Perennial Stream means a stream or portion of a stream that flows year-round, is considered a permanent stream, and for which base flow is maintained by ground-water discharge to the streambed due to the ground-water elevation adjacent to the stream typically being higher than the elevation of the streambed.

Permittee means a person to whom a permit has been issued.

Plan or Sale as included in the phrase “larger common plan of development or sale” is broadly defined to mean any announcement or documentation, sales program, permit application, presentation, zoning request, physical demarcation, surveying marks, etc., associated with or indicating construction activities may occur in an area.

Pollutant of concern refers to sediment, turbidity, and any other pollutant known or reasonably expected to be found in untreated discharges associated with the construction site.

Post-construction refers to any phase of construction where final stabilization has been achieved and all but minor construction activities have been completed. The term post-construction is not affected by the final operational status of the site or whether the site has been placed into operation according to its final intended use.

Priority construction site means any site that discharges to a waterbody which is listed on the most recently EPA approved 303(d) list of impaired waters for turbidity, siltation, or sedimentation, any waterbody for which a TMDL has been finalized or approved by EPA for turbidity, siltation, or sedimentation, any waterbody assigned the Outstanding Alabama Water use classification in accordance with ADEM Admin. Code r. 335-6-10-.09, and any waterbody assigned a special designation in accordance with ADEM Admin. Code r. 335-6-10-.10.

Qualified Credentialed Inspector or QCI means a permittee, permittee employee, or permittee designated qualified person who has successfully completed initial training and annual refresher Qualified Credentialed Inspection Program (QCIP) training, and holds a valid certification from a Department approved cooperating training entity. A QCI is familiar with current industry standards for erosion and sediment controls and able to inspect and assure that BMPs or other pollution control devices (silt fences, erosion control fabric, rock check devices, etc.) and erosion control efforts (grading, mulching, seeding, growth management, etc.) or management strategies have been properly implemented and regularly maintained. Such individual may not certify the CBMPP or modifications to the CBMPP.

Qualified Credentialed Inspector Program or QCIP means a Department approved program conducted by a cooperating training entity. Approved programs provide training in the requirements of the Alabama NPDES rules and regulations to ensure that QCP designed and certified BMPs detailed in a CBMPP are effectively implemented and maintained, and evaluation of conveyance structures, receiving waters and adjacent impacted offsite areas to ensure the protection of water quality and compliance with the requirements of this Permit.

Qualified Credentialed Professional or QCP means a licensed (in the State of Alabama) professional engineer (PE) or a Certified Professional in Erosion and Sediment Control (CPESC) as determined by EnviroCert International. Other registered or certified professionals eligible to be classified as a QCP include registered landscape architect, licensed land surveyor, registered geologist, registered forester, Registered Environmental Manager as determined by the National Registry of Environmental Professionals (NREP), or Certified Professional and Soil Scientist (CPSS) as determined by the Soil Science Society of America. The QCP shall be in good standing with the authority granting the registration or designation. The design and implementation of certain structural BMPs may involve the practice of engineering and require the certification of a professional engineer pursuant to Alabama law.

A qualified person under the direct supervision of a QCP refers to an individual who is an employee of the QCP or the QCP’s firm, and is familiar with current industry standards for erosion and sediment controls. This individual is able to inspect and assure that BMPs or other pollution control devices (silt fences, erosion control fabric, rock check devices, etc.) and erosion control efforts (grading, mulching, seeding, growth management, etc.) or management strategies have been properly implemented and regularly maintained. Such individual may not certify the CBMPP or modifications to the CBMPP.

Qualifying precipitation event refers to any precipitation of 0.75 inches or greater in any 24-hour period.

Receiving Stream means the “waters” receiving a “discharge” from a construction site.

Severe property damage means substantial physical damage to property, damage to the treatment facilities which causes them to become inoperable, or substantial and permanent loss of natural resources which can reasonably be expected to occur in the absence of a bypass. Severe property damage does not mean economic loss caused by delays in production.

Silvicultural Operations:

Non-point source Silvicultural activities means activities such as nursery operations, site preparation, reforestations, and subsequent cultural treatment, thinning, prescribed burning, pest and fire control, harvesting operations, surface drainage, or road construction and maintenance from which there is natural runoff.

Point source Silvicultural activities means any discernable, confined and discrete conveyance related to rock crushing, gravel washing, log sorting, or log storage facilities which are operated in conjunction with silvicultural activities and from which pollutants are discharged into waters of the State. Silvicultural point sources, excluding mining operations regulated pursuant to ADEM Administrative Code rule 335-6-9; 40 CFR Part 122.27 (1994).

Site means the land or water area where any facility or activity for which coverage under this permit is required is physically located or conducted, including adjacent land use in connection with the facility or activity. See also the definition of Construction Site.

State water quality standards refer to numeric and narrative standards set forth at ADEM Admin Code chaps. 335-6-10 and 335-6-11.

Steep Slope means a slope of 15% or greater.

Stormwater means runoff, accumulated precipitation, process water, and other wastewater generated directly or indirectly as a result of construction activity, the operation of a construction material management site, including but not limited to, precipitation, upgradient or offsite water that cannot be diverted away from the site, and wash down water associated with normal construction activities. Stormwater does not mean discharges authorized by the Department via other permits or regulations.

Stormwater control refers to any BMP or other method used to prevent or reduce the discharge of pollutants to waters of the State.

Surface water means a water of the State of Alabama as defined in ADEM Admin. Code R. 335-6-10-.02.

Temporary Stabilization means the application and establishment of temporary ground cover (vegetative, pavements of erosion resistant hard or soft materials, or impervious structures) for the purpose of temporarily reducing raindrop impact and sheet erosion in areas where final stabilization cannot be established due to project phasing, seasonal limitations, or other project related restrictions.

Total Maximum Daily Load or TMDL means the calculated maximum permissible pollutant loading to a waterbody at which water quality standards can be maintained. The sum of waste load allocations (WLAs) and load allocations (LAs) for any given pollutant.

Treatment Chemicals refers to polymers, coagulants, flocculants, or other chemicals used to reduce turbidity in stormwater. For the purposes of this permit, treatment chemicals are used to control erosion on soil or to enhance the sediment removal capabilities of sediment traps or basins. Common construction site polymers include polyacrylamide (PAM) and chitosan.

Treatment facility and treatment system means all structures which contain, convey, and as necessary, chemically or physically treat stormwater. This includes all pipes, channels, ponds, tanks, and all other equipment serving such structures.

TSS means the pollutant parameter Total Suspended Solids.

Turbidity means a condition of water quality characterized by the presence of suspended solids and/or organic material. Sources of turbidity include soil erosion, waste discharge, urban runoff, eroding streambanks, and excessive algal growth.

Upset means an exceptional incident in which there is unintentional and temporary noncompliance with technology-based permit effluent limitations because of factors beyond the reasonable control of the Permittee. An upset does not include noncompliance to the extent caused by operational error, improperly designed treatment facilities, inadequate treatment facilities, lack of preventative maintenance, or careless or improper operation. For purposes of this definition, Chronic and Catastrophic Precipitation constitutes an exceptional incident.

Waters of the State means "[a]ll waters of any river, stream, watercourse, pond, lake, coastal, ground or surface water, wholly or partially within the State, natural or artificial. This does not include waters which are entirely confined and retained completely upon the property of a single individual, partnership, or corporation unless such waters are used in interstate commerce." Code of Alabama 1975, §22-22-1(b)(2). "Waters" include all "navigable waters" as defined in §502(7) of the FWPCA, 33 U.S.C. §1362(7), which are within the State of Alabama.

Week means the period beginning at twelve midnight Saturday and ending at twelve midnight the following Saturday.

ALR100000 2021 PERMIT CHANGES

This general permit renewal contains the same basic framework of requirements as the 2016 permit. However, some language in this 2021 general permit renewal has been revised in order to clarify permit requirements, by streamlining and simplifying language throughout the permit to present the requirements in a generally more clear and readable manner. This structure should enhance operators' understanding of and compliance with the permit's requirements.

Although not inclusive of all changes to the permit, the following list contains notable changes:

Eligibility

Part I.B. Modified to clarify construction support activities covered by this permit.

Exempt Discharges:

Part I.C. Added this section to clarify language as to discharges associated with minor land disturbing activities are exempt from coverage under this permit.

Contents of the NOI:

Part II.C. Modified to remove the requirement to provide latitude and longitude for each point of discharge, added the requirement to provide the latitude and longitude of each outfall, clarify appropriate map submittal information, added requirement to provide a listing of all treatment chemicals anticipated to be used at the site including the Safety Data Sheets (SDS), the dosage(s), and location(s) where the materials are to be used. This information is needed to ensure that the materials are used in appropriate areas on-site and that associated stormwater is treated prior to discharge.

Submittal of Document:

Permit Part II.D. The Department has included the requirement that Notices of Intent (NOIs) for permit coverage shall be submitted electronically to the Department through the Alabama Environmental Permitting and Compliance System (AEPACS).

Additional Permittees (Co-Permittee) Under a Single NOI:

Part II.E. Added the term Co-Permittee to header to clarify this refers to multiple permittees.

Erosion Controls and Sediment Controls:

Part III.A. These requirements have been revised to include factors to consider when designing controls for the construction site to include; complete installation of stormwater controls by the time each phase of construction activities has begun; manage stockpiles or land clearing debris composed of sediment and/or soil; sediment basin, impoundment, or detention/retention basins used as a sediment basin during construction shall be installed and stabilized prior to commencement of other construction activity; and factors to consider regarding treatment chemicals.

Soil Stabilization

Permit Part III.C. This requirement was expanded to clarify the requirement to initiate stabilization immediately.

Best Management Practices Plan:

Part III.E. Added requirement to provide a calculation based on the control measures to be implemented, to confirm the controls, as designed in the CBMPP, will provide the required percent reduction to meet the TMDL.

Inspection Requirements:

Part III.H.4. The evaluation of the CBMPP shall be performed on an interval of every three (3) months for priority construction sites and every six (6) months for non-priority construction sites.

Precipitation Measurement:

Part III.K. Expanded to clarify when precipitation measurements should be read and recorded.

Impaired Waters:

Part III.L. Updated for clarity and readability.

Definitions:

Part V. The following definitions have been added to the draft permit: Agricultural Practices, Construction Support Activity, Facility, Intermittent Stream, Mining Operations, Stormwater Control, Treatment Chemicals, and Turbidity.



**ALABAMA
DEPARTMENT OF TRANSPORTATION**



SOUTHWEST REGION
OFFICE OF REGION ENGINEER
1701 I-65 WEST SERVICE ROAD NORTH
MOBILE, ALABAMA 36618-1109
TELEPHONE: (251) 470-8200
FAX (251) 473-3624

Kay Ivey
GOVERNOR

John R. Cooper
TRANSPORTATION DIRECTOR

October 28, 2021

City of Orange Beach
4099 Orange Beach Blvd
Orange Beach, AL 36561

RE: Permit Number: **9-2-11949**
Baldwin Co. SR 180 MP 28.32/ 1.70

Permit Exp. Date: **October 28, 2022**

Dear Sir or Madam:

Attached, please find an approval to grade the existing shoulder and side ditch in the southeast corner of the SR 180/ SR 161 intersection. This grading work is required to tie-in to the City's proposed widening project of Canal Road, as shown in the attached plans.

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 stamped signature, be on the jobsite any time work is being performed. During the permitted 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. David M. Styron II, P.E., 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, and notify him in writing upon completion of the work to request a final inspection. His address is 47450 Rabun Road, Bay Minette, Alabama 36507. His telephone number is (251) 937-2086.

Sincerely,

MATTHEW ERICKSEN, P.E., REGION ENGINEER

By: Jason Shaw
Jason Shaw, P.E.
Maintenance Engineer Southwest Region - Mobile

JS/shd
Attachment

c: Mr. Stacey N. Glass, P.E.
Mr. David M. Styron II, P.E.
File



Kay Ivey
GOVERNOR

ALABAMA DEPARTMENT OF TRANSPORTATION

SOUTHWEST REGION
OFFICE OF REGION ENGINEER
1701 I-65 WEST SERVICE ROAD N
MOBILE, ALABAMA 36618-1109
TELEPHONE: (251) 470-8200
FAX (251) 473-3624



JOHN R. COOPER
TRANSPORTATION DIRECTOR

October 20, 2021

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

Date Permit Received: 12/7/20
Date Check Sent to Finance: _____
Date Sent to Region: 10/20/21
Date Sent to Central Office: _____
Date Sent to Applicant: _____
Date Bond Released: _____

Attention: Mr. Jason Shaw, P.E.
Attached please find the following permit for your approval:

PERMIT ROUTING INFORMATION

Permit Number(s): 9-2-11949
Permit Application Type(s): Grading & Landscaping
Applicants Legal Name: City of Orange Beach
Route Number: SR-180/161
Mile Post: 28.32/1.70
Applicants Mailing Address: 4099 Orange Beach Blvd
Orange Beach, AL 36561

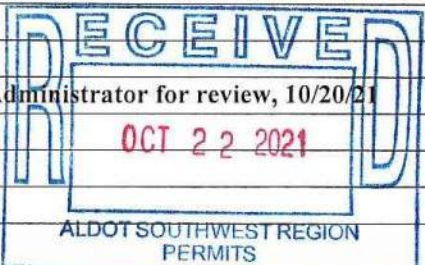
Service: _____ District Approval: _____
Letter: _____ Region Approval: X
Central Office Approval: _____

[Signature] P.E.
District Administrator 10/20/2021
Date

Permit Manager _____ Date _____

Maintenance Engineer _____ Date _____

- Notes:
- Received First Submittal (Preliminary Review) – 2 copies of each, 12/7/20.
 - Sent copies of submittal to District Administrator & Region for review, 12/8/20.
 - Sent comments to EOR, 1/7/21.
 - Received revisions, 9/30/21.
 - Processed & sent submittal to District Administrator for review, 10/20/21





thompson

ENGINEERING

LETTER OF TRANSMITTAL

Tracking No. N/A

To: ALDOT, District II – Baldwin Co
47450 Rabun Rd
Bay Minette, AL 36507

Date: 09/29/2021 Job No. 20-1101-0085
Attention: Darrin Reed
District II Permit Manager
Re: Submittal – ALDOT Final Permit

WE ARE SENDING YOU: Attached Under separate cover via _____ the following items:
 Shop drawings Prints Plans Samples Specifications Copy of letter Change order
 Permits

Copies	Date	No.	Description
4	09/17/21		Final Plans
4	09/29/21		Permit Checklist
4	08/11/21		MB-05 Grading and Landscaping

THESE ARE TRANSMITTED as checked below:

- | | | | |
|---------------------------------------|---|---|--|
| <input type="checkbox"/> For approval | <input type="checkbox"/> Approved as submitted | <input type="checkbox"/> Resubmit _____ copies for approval | <input type="checkbox"/> Approved as noted |
| <input type="checkbox"/> For your use | <input type="checkbox"/> Returned for corrections | <input type="checkbox"/> Submit _____ copies for distribution | <input checked="" type="checkbox"/> For review and comment |
| <input type="checkbox"/> As requested | <input type="checkbox"/> For bids due | <input type="checkbox"/> Return _____ corrected prints | <input type="checkbox"/> Prints returned after loan to us |

Remarks: Hard copies for final permit submittal on proposed City of Orange Beach roadway improvements
project on Canal Rd starting at the SR-180/161 intersection and proceeding east on the City
maintained segment of Canal Rd to Wilson Blvd.

FROM: Thompson Engineering, Inc.
Charles Weber, PE

COPY TO: Kit Alexander, City of Orange Beach
FILE

If you require any of the information, please contact us immediately.
This document is the property of Thompson Engineering, Inc. and is not to be distributed, copied, or used in any way without the written consent of Thompson Engineering, Inc. The user of this document is responsible for the accuracy of the information contained herein. Thompson Engineering, Inc. does not warrant the accuracy of the information contained herein. The user of this document is responsible for the accuracy of the information contained herein.

4751 Main Street, Ste. F-212
Orange Beach, AL 36561
251-378-6190 ph. / 251-666-6422 fax
www.thompsonengineering.com

ALABAMA DEPARTMENT OF TRANSPORTATION
AGREEMENT FOR GRADING AND/OR LANDSCAPING
ON RIGHT OF WAY

County Baldwin

Route Number SR-180/ SR-161

Milepost 28.32 (0180)/ 1.70 (0161)

Bonding Agency N/A

Bond Number N/A

Associated Permits and/or Documents Permit Checklist

<p><i>FOR OFFICIAL USE ONLY</i></p> <p>DATE RECEIVED FROM APPLICANT: <u>9/30/21</u></p> <p>PERMIT NUMBER: <u>9-2-11949</u></p>
--

THIS AGREEMENT is entered into this the 11th day of August, 2021, by and between the Alabama Department of Transportation acting by and through its Transportation Director hereinafter referred to as ALDOT and City of Orange Beach, hereinafter referred to as the APPLICANT.

WITNESSETH

WHEREAS, the APPLICANT proposes to grade and/or landscape ALDOT Right of Way located and described as follows: Some re-grading of the existing shoulder and side ditch in the SE corner of the SR-180/161 intersection required to tie-in the proposed widening project on the City maintained section of Canal Rd located east of the intersection.

NOW, THEREFORE, in order to preserve the right-of-way in an appropriate functional condition it is agreed between the parties hereto as follows:

1. All grading on the right-of-way will be confined to and coextensive with the limits of the APPLICANT's own property which is adjacent to and coextensive with the right-of-way.
2. All work shall be subject to the inspection and approval of ALDOT and located as shown on the approved plans previously submitted to ALDOT which are hereby made a part of this Agreement by reference.
3. A copy of the Agreement and the plans will be kept at the site of work, at all times, by the APPLICANT.
4. ALDOT does not grant the APPLICANT any right, title, or claim to any highway right-of-way.

5. The APPLICANT will not store material, excess dirt, or equipment on the shoulders or pavement and in event of multi-lane highways, in the median strips. The pavement will be kept free by the APPLICANT from mud and from excavation waste from trucks or other equipment. On completion of the work, all excess material will be removed from the right-of-way by the APPLICANT.

6. All disturbed areas shall be top-soiled and re-vegetated by the APPLICANT in accordance with the standard specifications of ALDOT.

7. In accomplishment of the work by the APPLICANT, no drainage structures or channels will be changed or altered other than as shown on the plans.

8. In no case shall post development drainage from beyond the ROW Limits, directed toward the roadway, be greater than the pre-construction runoff nor shall the post development increase the runoff within the ROW. Should the post development drainage increase to unacceptable levels, the property owner shall restore drainage to the pre-construction levels and restore the ROW to pre-construction conditions.

9. 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.

10. 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.

11. 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.

12. 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.

13. The APPLICANT will provide all necessary and adequate safety precautions such as signs, flags, lights, barricades, and flagmen in accordance with the national Manual on Uniform Traffic Control Devices, of record in ALDOT.

14. If hazardous material is encountered in the execution of this Agreement it will be the responsibility of the APPLICANT to notify the proper agency responsible for said hazardous material 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 material encountered.

15. Any utility adjustment will be by agreement between the APPLICANT and the Utility, and any such agreement shall be subject to the approval of ALDOT.

16. 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.

17. 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.

18. 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.

19. The APPLICANT will file with ALDOT an acceptable certified check or bond in the penal amount of \$ N/A (Bond Number: N/A) to guarantee the faithful performance of this permit contract in its entirety during the contract period as defined in item 16. 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.

20. 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 their official 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 or 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.

21. This agreement when executed will not be valid or binding until the APPLICANT has complied with all existing ordinances, laws, and zoning boards that have jurisdiction in the county, city, or municipality in which the facilities are located.

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 11th day of August, 2021.

WITNESS:

[Signature]
Renee Ebert, City Clerk

City of Orange Beach
Legal Name of Applicant

By: [Signature]
Authorized Signature and Title for Applicant

Mayor Tony Kennon
Typed or Printed Name of Signee

4099 Orange Beach Blvd
Address Line 1

Orange Beach, AL 36561
Address Line 2

251-981-6979
Telephone Number

FOR OFFICIAL USE ONLY

RECOMMENDED FOR APPROVAL:

DISTRICT: David M. Stinson II, PE. [Signature] 10/24/2021
Printed Name Signature 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: Matthew Ericksen [Signature] 10/28/21
Printed Name Signature Date

PERMIT CHECKLIST

REV. JANUARY 2021

SW Region-Mobile Area

Applicant City of Orange Beach Route SR-180/ SR-161 Milepost 28.32 (0180)/1.70 (0161)

- ❖ ALDOT is available for preliminary discussions concerning any development impacting and/ or connecting to ALDOT Right-of-Way (ROW) and we encourage the developer/ EOR to contact us for comments early in the design phase.
- ❖ Use this checklist with the following Permit Applications: BM-111(Turnout), MB-05 (Grading & Landscaping), MB-07 (Drainage), & MB-01/ 02 (for utility work associated with development).
- ❖ ALDOT Manuals are available online at: www.dot.state.al.us/maweb/permitsoperations.html ; Commonly used Standard Drawings/ Details & Area specific materials such as Access Management Plans are available at: www.dot.state.al.us/regsw/permitting.html
- ❖ One Preliminary Review will be given for each proposal, after that, signed applications should be submitted. Official Permit submittals are reviewed, and once revision comments are issued, if not resubmitted within 30 Days from the emailed revisions, the permit submittal is automatically void and new submittal materials shall be required. When resubmitted, the Performance Bond for the amount approved by ALDOT must be provided.
- ❖ **As-Built Certification Letter & Addendum Request Process** – After completion of work, the Engineer of Record (EOR) shall submit a signed certification letter stating the project has been constructed in accordance with the **ALDOT approved plans**, and with standards/ specifications applicable at the time of approval. Once a permit is approved, the design shall not be altered for **any reason** without gaining prior approval in writing from ALDOT through an official Permit Addendum request. Addendum requests can normally be handled within a few days if adequate information is provided. Changes resulting from a local municipal comment or directive **does not** approve the work, negate the ALDOT approved plan, nor does it override the Addendum process. It is the responsibility of the EOR to ensure their client is aware that only the ALDOT approved work shall be accepted.
- ❖ A Pre-Con meeting, at least 48 hrs. prior to beginning work, is required to be held to ensure the contractor has received the ALDOT approved plans from the permittee and understands the scope of work. This should be coordinated through the District Office by the applicant or EOR.
- ❖ **Note: The legal land owner must be named as Legal Applicant as it appears on the tax records.**
All permit materials shall be submitted under the same name. Permit applications/ materials, Performance Bond, and associated documents shall all be in the name of Legal Applicant. All permit submittals should be directed to the local District Office, see addresses below.
- ❖ This checklist is not considered to be all inclusive but covers a wide scope of potential proposed work. The EOR must present all the listed information within in the plan set and submittal package. ALDOT reserves the right to request additional information that may be needed for any project or proposal.

District 1 (Mobile)

Mr. David A. Hollowell
District Administrator
1701 I-65 West Service Road North
Mobile, Alabama 36618
(251) 470-8219

District 2 (Baldwin)

Mr. David M. Styron II, P.E.
District Administrator
47450 Rabun Road
Bay Minette, Alabama 36507
(251) 937-2086

District 3 (Escambia/ Conecuh)

Mrs. Tammy W. Evers
District Administrator
10610 Highway 31 South
Evergreen, Alabama 36401
(251) 578-7546

First Submittal (Preliminary Review) – 2 copies of each item required

- Permit applications
- Permit Checklist
- Proposed Construction Plans, stamped by Alabama Licensed PE ¹
- Engineer's Cost Estimate for all work performed on ROW ³

1. Full Size plans preferred to provide clarity of proposed work
2. Documentation and Location of Information
3. Cost Estimate must be approved by ALDOT before acquiring BM-174

PERMIT CHECKLIST

REV. JANUARY 2021

SW Region-Mobile Area

Final Submittal – 4 copies of each item required

- Permit applications
- Permit Checklist
- Construction Plans, stamped by Alabama Licensed PE¹
- ADEM NOR/ NOI (Required if over 1 acre soil disturbance combined On & Off ROW)
- Performance Bond BM-174 (9.1 Permit Manual; **Amount Approved by ALDOT during First review**)
 - OR** Blanket Bond Continuation Letter/Certificate (Typically only applicable for Utility Work)
 - OR** Cashier's check and Form W-9 (It is strongly advised to use a Surety Bond and not a check.)
- PDF of plans (can be emailed if under 22MB)

Permit Applications (filled by Applicant): (1.4.1 Permit Manual²)

- ❖ Permit Number & Associated Permits will be assigned by the District office
- Name of County proposed work is located within
- Mile Post to nearest 0.01 mile (Give range from start to end of proposed work for turn lanes, etc.)
- Route Number (US-xx, SR-xx, I-xx)
- Date all applicable blanks (Enter date the permit applicant signs the permit contract.)
- Applicant's Legal Name, site address (page 1 BM-111), work description
- Include Amount of Bond, and Bond Number (Enter approved amount on final submittal)
- Last Page of Permit: Witness & Applicant Signature Required, mailing address & phone number

General Permit Plan Requirements: (specific permit requirements follow)

- Vicinity Map (State & US routes labeled clearly, include name and direction of nearest town)
- North arrow on all plan view sheets
- Posted Speed limits within boundaries of proposed work
- Provide Scale (Any details that are not to scale should be noted as such.)
- Mile Post (nearest 0.01 mile from start to end of proposed work)
- Detailed Legend Required
- Route Number (SR-xx, US-xx, I-xx)
- Denote Centerline (CL), Right-of-Way line (ROW), Edge of Pavement (EOP) and relevant property lines on each sheet
- Present accurate Striping Scheme of Roadway within the limits of proposed work
- Width of all lanes of existing and proposed roadway pavements including shoulders
- Distances: Centerline to ROW line, EOP to ROW line, proposed work to ROW line
- Distances: EOP to flow line of side ditches also show flow direction arrows
- 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. Notes shall not insinuate or imply "Approximate" locations as they are not accepted.
 - If deemed necessary by ALDOT, existing utilities shall be presented in the field by means of flagging, staking, painting, and potholing/ probing for inspection by ALDOT Representatives.
 - Vertical location of utility lines is 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.
 - If no existing utilities are present, state "No Existing Utilities"
- All applicable ALDOT Standard and Special drawings must be included in plans
- Demolition Plan (Include existing conditions and identify anything to be removed from ROW)
- 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 Permit General Notes: Fully complete and also include note set separately in the plan set

PERMIT CHECKLIST

REV. JANUARY 2021

SW Region-Mobile Area

Turnout Permit Plan Specific Requirements: (BM-111) (Chapter 2 Permit Manual²)

- Land Usage/ Business the turnout will serve (Include # of units, square footage, etc...)
 - Existing Site Plan w/ Demolition Items (show all existing & removal items, drainage str., etc.)
 - Proposed Site Plan (with location of all proposed buildings, pumps, signs, racks, drainage items, etc.)
 - Stopping Sight Distance (SSD) (Must meet AASHTO Green Book requirements)
 - Design and width of turnout including radii (min. lane width is 12' wide)
 - Distance from center of the turnout to property line
 - Distance from proposed turnout to nearest existing turnout on each side
 - Measured as shown in CH.4 of Access Management Manual
 - Corner Clearance distance(s) should also be shown and considered during preliminary discussions
 - 6:1 slope paved headwalls are required for side drain driveway pipes
(*Ditch must be graded for smooth tie in across frontage, headwalls shall not be cut into front slope)
 - Side Drain drainage should be designed for a 10 Year Storm Event
 - Profile View of Drive, shall include:
 - Proposed drive and existing grades, hard surface is required from EOP to ROW
 - Label CL of Route, ROW, EOP, existing and proposed features, slopes, etc.
 - Show any utilities and drainage structures in this view that are applicable
 - Slope from edge of pavement to ROW (-4% minimum slope from EOP to ROW line)
- ** Refer to the Grading & Landscaping section for additional items needed to present grading on ROW.

Details: (not limited to the following) (common details are available on website)

- Buildup detail for hard surface; rates, thicknesses, types of material (must extend from EOP to ROW)
 - Proposed driveway build-up and turn lane buildup shall meet or exceed those in the ALDOT Permit Manual
 - Butt joint detail must be included showing smooth saw-cut joint adjoining EOP with a note to "saw cut"; Full depth saw-cut is required for access & turn lane additions.
 - Striping plan, traffic signage, pavement markers, etc. (Class 2, Type A Thermoplastic Stripe must be stated for all stripe on ROW)
- In any case where the access is crossing adjacent properties, a non-exclusive reciprocal access easement will have to be granted from the property owner before the approval of the permit.

Grading and Landscaping Permit Plan Specific Requirements: (MB-05) (4.0 Permit Manual²)

- Cooperative Maintenance Agreement (MB-06A) signed by local governing agency is required for all pedestrian related items, landscape projects, etc. Any items not required by ALDOT. (4-1 Permit Manual²)
- Plan View should show any existing and proposed contours where grading is taking place
- Cross Sections every 50 feet of grading, or at significant grade changes
 - Cross sections are required for turn lanes, preferred ditch section is 4:1 slopes w/ 4' flat bottom
 - Show & label edge of pavement, ROW line, existing ditch (if any), and area to be graded
 - All existing and proposed utilities & drainage structures should be shown in cross sections (min. coverage on utilities shall be maintained) (Line relocations must be permitted concurrently.)
 - Show original grade, finished grade, EOP and ROW designate each on cross sections
 - Offsets & Elevations and/ or slope ratios are required to be stated
 - Slopes should be designed to be recoverable & clear zone standards are to be followed
- Profile view, where the work intersects existing utilities, will be required to ensure that the proposed work will not conflict with existing utilities.
- If permit requires the cutting or removal of ALDOT denied access fence, the fence should be replaced with ALDOT approved fence material and temporary fence should be installed prior to the removal of any existing denied access fence.

PERMIT CHECKLIST

REV. JANUARY 2021

SW Region-Mobile Area

- Plans shall include spacing and distances from EOP to proposed plantings
 - Plantings with a mature height over 18" are not permitted within 150' of crossovers, accesses, or side road connections to the main roadway and must be 12' from the EOP.
 - Plantings with a mature diameter of 4" or more must meet AASHTO Clear Zone requirements
- Note any trees to be trimmed or removed (Include tree diameter at 54" high and species)
- Sodding shall be in conformance with the latest standards.
- If work is on the Interstate ROW, notes for Ingress, Egress, Access Being Closed at the End of the Day, and Fence Replacement should be included on the plan sheets.
- Widening & Patching must meet approved buildup; longitudinal surface joints will not be approved within travel lanes. Wearing surface to be milled & replaced as needed to prevent joints, remove stripe, etc.

Drainage Permit Plan Specific Requirements: (MB-07) (Chapter 5.0 Permit Manual²)

- Drainage plans and report must be stamped and signed by a professional engineer
- Drainage plan showing existing & proposed stormwater routing, site elevations and drainage structures.
- State the type, size, and lengths of all pipe to be installed in ROW on Plan & Profile Views
- Slope paved headwalls are required for all pipes releasing in ROW
- If the permit contains storm sewer drains, the preferable inlet spacing is 50' on state ROW with a maximum spacing of 65'.
- Profile View of Proposed Drainage within ROW and outfalls is required
 - Label CL of Route, ROW, EOP, existing and proposed features, any existing or proposed utilities, etc.
- Drainage Calculations (required)
 - SIDE DRAIN structures should be designed for a 10 YR event; OUTFALLS entering ALDOT ROW should be designed for a 50 YR Event; INTERSTATE OUTFALL design should be for a 100 YR event
 - PRE versus POST-development drainage information is required as shown below
 - Information should be in the form of PRE-DEVELOPED = ___ cfs and POST-DEVELOPED = ___ cfs (POST shall **not** exceed PRE development drainage rate, CFS)
 - Any drainage flow charts should be easy to follow in order to allow for a quick, yet, concise review
 - For larger developments submit a drainage report with all Pre and Post Development calculations (the method of calculation must be identified in the report). Include all aspects of the drainage design. Design aspects include, but are not limited to: size of pipe, size of detention facility, design of overflow structure(s), etc. Software reports shall be submitted if applicable.
 - Letter from Licensed Engineer stating that the proposed work will not have any adverse effects upstream or downstream.

Utility Permit Plan Specific Requirements: (MB-01) (4.2 Utility Manual²)

- 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.
- All type roadway crossings shall be as near perpendicular as possible to the roadway.

Underground Utilities

- Underground utilities installed across ROW must be bored not open cut
- Roadway crossings – Plan & Profile View Required
 - 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
- Location of all existing & proposed utilities, appurtenances, drainage structures, accesses, etc. with distances from ROW must be included on the plans.

PERMIT CHECKLIST

REV. JANUARY 2021

SW Region-Mobile Area

- ___ Show abandoned utility lines, Lines 4" or greater shall be grout filled or removed from ROW
- ___ If a patch is to be made, the repair limits and buildup must be approved and shown in the plans
- ___ Depth of Bury (additional depth beyond minimums may be required at ALDOT's discretion)
 - 36" min. beneath the flow line of ditch, 48" min. under pavement, 8' min. beneath flow line of stream
- ___ Bore Method & Bore Design Letter signed by Engineer of Record
 - 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: fluid type & normal operating PSI and GPM (the maximum allowable fluid rate is 350 PSI at 15 GPM)
 - Letter to include note: The max allowable ratio will not be exceeded without prior ALDOT approval.
- ___ Profile of manholes if permitted (Manholes must be flush with existing ground line)
- ___ 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/trenching not permitted within the roadway prism or ditch line.
- ___ Profile of proposed Bore Crossings (label ROW, pipe, ground, existing utility lines, grades, etc.)
- ___ All meters, of any type, shall be installed off ALDOT rights-of-way
- ___ Horizontal distance from bridge footings or drainage structures is 25 foot minimum
- ___ Type of 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
- ___ 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 (min.: 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. Municipex Type is equiv. to Copper Type K.
- ___ 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(Utility Manual 2.18.3²)
- ___ Small cell sites must be specifically permitted as such, no new poles in ROW are allowed, all aspects of operational need must be presented in plan set.
- ___ 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 utility lines and any drainage structures to be shown in the plans.

PERMIT CHECKLIST

REV. JANUARY 2021

SW Region-Mobile Area

Permit General Notes:

Notes:

1. All informational blanks within notes are required to be completed.
 2. Applicant is used to describe the legal permit applicant or any of their representatives, contractors, or assigns.
1. All meters shall be installed off of ALDOT Right-of-Way.
 2. All manholes, valve boxes, and hand holes should be flush with existing ground.
 3. Applicant shall contact the District Administrator 48 hours prior to beginning work on ALDOT Right-of-Way. The District Administrators are as follows:
Area- 9
(91) Mobile County – David A. Hollowell, (251) 470-8219
(92) Baldwin County – David M. Styron II, P.E. (251) 937-2086
(93) Escambia and Conecuh Counties – Mickey T. Jones, (251) 578-7540
 4. The Engineer of Record shall promptly write an As-Built Certification letter to the District Administrator requesting an inspection upon completion of the permitted work. Any punch list items shall be completed prior to Provisional Acceptance of work.
 5. Bonds submitted for permits shall be held for a (1) one-year Maintenance Period which begins on the Provisional Acceptance date issued by the Department. During this time any failures, deficiencies, or maintenance care shall be the responsibility of the applicant. At the end of the Maintenance Period the applicant or Engineer of Record shall submit a bond release request letter to the District Administrator, bonds are not released without request.
 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 Tim Tucker (251) 974-5492
 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 on ROW shall receive 4" of topsoil and be sodded or seeded as directed by the Department.
 10. All work on the ROW will be in conformance with the latest edition of ALDOT Standard Specifications.
 11. 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 and require stand of grass and/or sod before acceptance. 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. 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. Upon completion & any time thereafter, ALDOT retains the right to request an As-Built plan of any permitted work within the Department's Rights-of-Way (ROW).
 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 expense of the permit applicant.
 17. The total area to be disturbed during construction of this permit: 12.72 acre(s). (On & Off ROW combined)
 18. Water lines shall conform to the currently applicable standards of the *American Water Works Association*.
 19. Pressure pipe lines shall 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.

PERMIT CHECKLIST

REV. JANUARY 2021

SW Region-Mobile Area

21. All existing utility facilities in the proposed work area have been 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 C.D.W.
 - b. 811 Locate Request # multiple
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 see that all solid waste (I.E., wood, stumps, etc.) is disposed of 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. 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) 28.32 to 28.32 Speed Limit ³⁵ Stopping Site Distance ²⁵⁰
31. Is drainage/ runoff from this site directed onto state ROW? (circle) **YES** or **NO** Engineer Initials C.D.W.
32. Are utility, signal or light pole, related conflicts present or are any relocations required for this project to be constructed as proposed in these plans? (circle) **YES** or **NO** Engineer Initials C.D.W.
33. Minimum cover over utilities shall be maintained upon completion of work.
(circle) **YES** or **NO** Engineer Initials C.D.W.
34. The legal permit applicant is held responsible and liable for all damages, actions, or responsibilities of their appointed contractors, assigns, or appointees.

City of Orange Beach

APPLICANT NAME

251-981-6979

APPLICANT PHONE #

4099 Orange Beach Blvd

Orange Beach, AL 36561

APPLICANT MAILING ADDRESS

City of Orange Beach

4099 Orange Beach Blvd

Orange Beach, AL 36561

MAILING ADDRESS FOR
APPROVED PERMIT

September 16, 2021

DATE

Charles Weber

ENGINEER OF RECORD

251-752-2073

ENGINEER'S PHONE NUMBER

cweber@thompsonengineering.com

ENGINEER'S EMAIL ADDRESS

CITY OF ORANGE BEACH

CANAL ROAD IMPROVEMENTS FROM SR-161 TO WILSON BLVD WIDENING, ROUNDABOUT, ACCESS MANAGEMENT AND MULTI-USE TRAIL

RESTORE GRANT PROJECT NO. GNSSP20AL0006-01-00
STATE EXPENDITURE PLAN #22
CANAL ROAD IMPROVEMENTS E OF SR-161

& CITY PROJECT
ACCESS IMPROVEMENTS AND MULTI-USE TRAIL CONNECTIONS
FROM CALLAWAY DR TO WILSON BLVD

SEPTEMBER 2021
ALDOT PERMIT PLANS

INDEX TO SHEETS

SHEET NO.	SHEET TITLE
1	TITLE SHEET
1-A	INDEX TO PLAN SHEETS
150	LAST SHEET

TOTAL NO. SHEETS = 32

These plans have been prepared to conform to the Alabama Department of Transportation Standard Specifications for Highway Construction, 2018 Edition.

* Design Exceptions - N/A



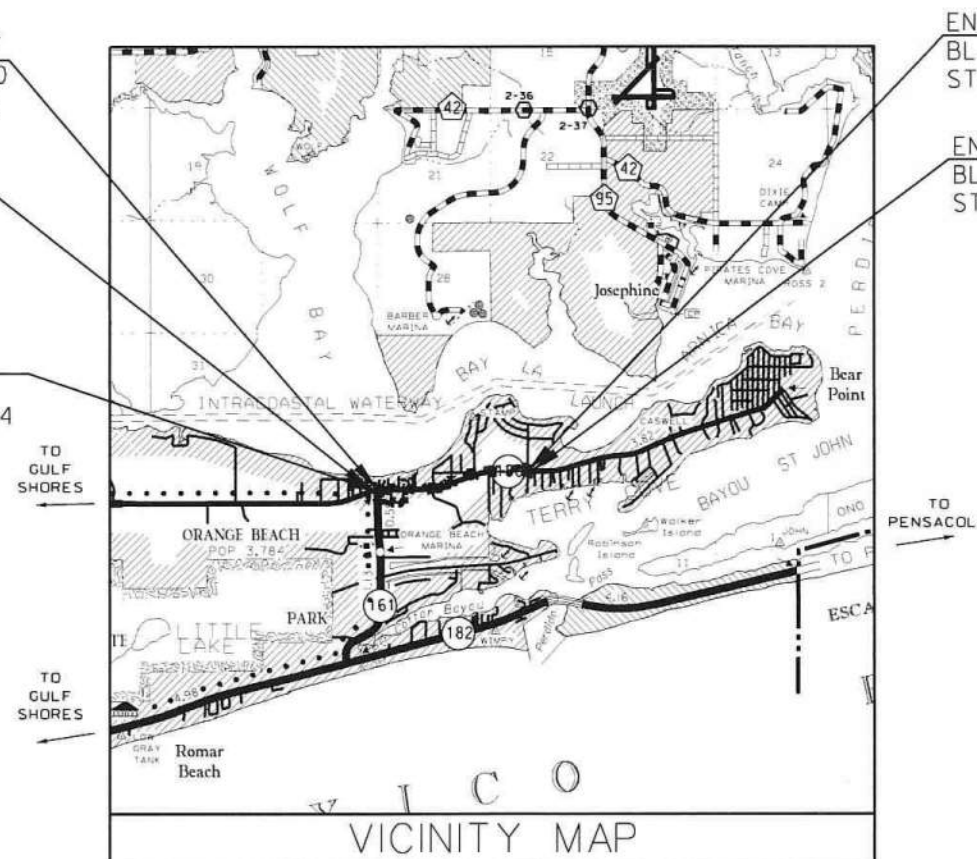
VICINITY MAP

Mattie Eial

BEGIN PROJECT
BL CANAL ROAD
STA 667+54.83

BEGIN WORK
BL CANAL RD (SR-180)
M.P. 28.32
STA 665+00.00

END WORK
BL SR-161
M.P. 1.70
STA 88+20.44



VICINITY MAP

NTS

EXISTING BRIDGES:

N/A

EXISTING BRIDGE CULVERTS:

N/A

EQUATIONS AND EXCEPTIONS:

N/A

Total Stationing of Project	7186.08 FT	
Equations & Exceptions	0.00 FT	
Net Length of Project	7186.08 FT	1.361 MI
Net Length of Bridges	0.00 FT	0.000 MI
Net Length of Roadways	7186.08 FT	1.361 MI

CITY OF ORANGE BEACH

MAYOR TONY KENNON
ANNETTE MITCHELL, PLACE 1
JEFF BOYD, PLACE 2
JERRY JOHNSON, PLACE 3
JEFF SILVERS, PLACE 4
JONI BLALOCK, PLACE 5

SUBMITTED BY:

Charles D. Weber

CHARLES D. WEBER, P.E.
AL PROFESSIONAL REGISTRATION NO. 34057




DATE

PREPARED BY:



THOMPSON ENGINEERING, INC.
4751 MAIN STREET, SUITE F-212
ORANGE BEACH, ALABAMA 36561
(251) 378-6190

SHEET NO	DESCRIPTION
1	TITLE SHEET
1-A	INDEX TO SHEETS
1-B THRU 1-C	INDEX TO SPECIAL AND STANDARD DRAWINGS
1-D THRU 1-E	PLANS LEGEND AND ABBREVIATIONS SHEETS
1-F THRU 1-G	OMIT
1-H THRU 1-I	PRIMARY SURVEY CONTROL AND GEOMETRIC LAYOUT SHEET
2	TYPICAL SECTION
2-A THRU 2-M	OMIT
2-N	PROJECT NOTES
2-O	OMIT
2-P	ALDOT STANDARD NOTES
2-Q	GENERAL TRAFFIC CONTROL PLAN NOTES
3 THRU 3-A	SUMMARY OF QUANTITIES
4 THRU 4-A	PLAN AND PROFILE SHEETS
5 THRU 19	OMIT
20	PAVING LAYOUT SHEET
21 THRU 29	OMIT
30	STRIPING LAYOUT SHEET
31 THRU 39	OMIT
40	SIGNING LAYOUT SHEETS
41 THRU 49	OMIT
50 THRU 50-A	UTILITY PLAN AND PROFILE SHEETS
51 THRU 99	OMIT
100	TRAFFIC CONTROL PLAN: SEQUENCE OF CONSTRUCTION
100-A THRU 100-D	TRAFFIC CONTROL PLAN: DETAIL SHEETS
101	TRAFFIC CONTROL PLAN: ADVANCE WARNING SIGN LAYOUT
102 THRU 103	TRAFFIC AND EROSION CONTROL PLAN SHEETS: PHASE III-A
104 THRU 106	OMIT
107 THRU 108	TRAFFIC AND EROSION CONTROL PLAN SHEETS: PHASE III-B
109 THRU 149	OMIT
150	CROSS SECTIONS - CANAL RD E

SHEET NO. : 1-A	CANAL ROAD IMPROVEMENTS FROM SR-161 TO WILSON BOULEVARD	INDEX TO SHEETS	JOB NO. : 20-1101-0085
CITY OF ORANGE BEACH ORANGE BEACH, ALABAMA		DATE : SEPT 2021	
		THOMPSON ENGINEERING, INC. 4751 WILSON STREET, SUITE 202 ORANGE BEACH, ALABAMA 36561 PHONE: 904.378.6900	
PREPARED BY :	DRAWN BY :	CHECKED BY :	APPROVED BY :
SCALE :			

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THE FOLLOWING ARE SPECIAL OR STANDARD DRAWINGS CONTAINED IN THE ALABAMA DEPARTMENT OF TRANSPORTATION SPECIAL & STANDARD HIGHWAY DRAWINGS BOOK (U.S. CUSTOMARY UNITS OF MEASUREMENTS) DATED 2021 WHICH APPLY TO THIS PROJECT:

INDEX NO.		DRAWING NO.	DESCRIPTION
NEW	OLD		
<u>SIGN FACE DETAILS</u>			
71050	1300-A	SHS-0	(SHEET 1 OF 4) STANDARD HIGHWAY SIGNS INDEX
71051	1300-B	SHS-0	(SHEET 2 OF 4) STANDARD HIGHWAY SIGNS INDEX
71052	1300-C	SHS-0	(SHEET 3 OF 4) STANDARD HIGHWAY SIGNS INDEX
71053	1300-D	SHS-0	(SHEET 4 OF 4) STANDARD HIGHWAY SIGNS INDEX
71060	1301	SHS-1	STANDARD HIGHWAY SIGNS
71061	1302	SHS-2	STANDARD HIGHWAY SIGNS
71062	1303	SHS-3	STANDARD HIGHWAY SIGNS
71063	1304	SHS-4	STANDARD HIGHWAY SIGNS
71065	1306	SHS-6	STANDARD HIGHWAY SIGNS
71066	1307	SHS-7	STANDARD HIGHWAY SIGNS
71067	1308	SHS-8	STANDARD HIGHWAY SIGNS
71069	1310	SHS-10	STANDARD HIGHWAY SIGNS
71072	1311	SHS-11	STANDARD HIGHWAY SIGNS
71075	1313	SHS-13	STANDARD HIGHWAY SIGNS
71077	1315	SHS-15	STANDARD HIGHWAY SIGNS
71078	1316	SHS-16	STANDARD HIGHWAY SIGNS
71079	1317	SHS-17	STANDARD HIGHWAY SIGNS
71080	1318	SHS-18	STANDARD HIGHWAY SIGNS
71082	1319	SHS-19	STANDARD HIGHWAY SIGNS
71083	1320	SHS-20	STANDARD HIGHWAY SIGNS
71084	1321	SHS-21	STANDARD HIGHWAY SIGNS
71090	1326	SHS-26	STANDARD HIGHWAY SIGNS
71091	1327	SHS-27	STANDARD HIGHWAY SIGNS
71092	1328	SHS-28	STANDARD HIGHWAY SIGNS
71093	1329	SHS-29	STANDARD HIGHWAY SIGNS
71094	1330	SHS-30	STANDARD HIGHWAY SIGNS
71095	1331	SHS-31	STANDARD HIGHWAY SIGNS
<u>TRAFFIC CONTROL DEVICES FOR CONSTRUCTION WORK ZONES</u>			
74001	902	B-107-2	PERFORATED SQUARE STEEL TUBING (PSST) BARRICADES TYPE I, TYPE II, AND TYPE III & VERTICAL PANELS TYPE I AND TYPE II
74004	905	LCS-107	DETAILS SHOWING REQUIREMENTS FOR LIGHTING CONSTRUCTION SIGNS
<u>PORTABLE CHANGEABLE MESSAGE SIGNS</u>			
74201	1239	PCMS-710	(SHEET 1 OF 3) DETAILS OF PORTABLE CHANGEABLE MESSAGE SIGNS (PCMS)
74202	1240	PCMS-710	(SHEET 2 OF 3) DETAILS OF PORTABLE CHANGEABLE MESSAGE SIGNS (PCMS)
74203	1241	PCMS-710	(SHEET 3 OF 3) DETAILS OF PORTABLE CHANGEABLE MESSAGE SIGNS (PCMS)

CANAL ROAD IMPROVEMENTS FROM SR-161 TO WILSON BOULEVARD
 INDEX TO SPECIAL AND STANDARD DRAWINGS
 DATE : SEPT 2021
 JOB NO. : 20-1101-0085
 REVISION NO. : ..

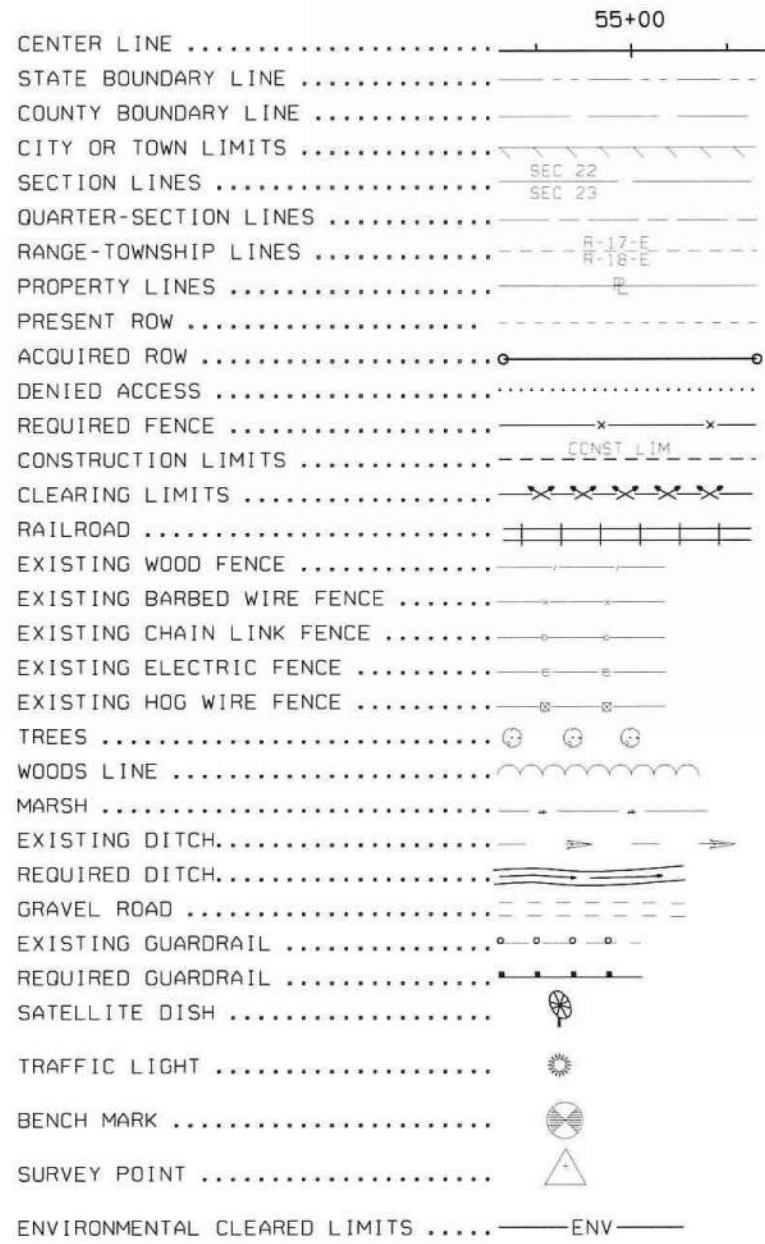
CITY OF ORANGE BEACH
 ORANGE BEACH, ALABAMA
 PREPARED BY : THOMPSON ENGINEERING, INC.
 1712
 ORANGE BEACH, ALABAMA 36561
 1251 378-6900
 CHECKED BY : ..
 APPROVED BY : ..
 DRAWN BY : ..
 SCALE : ..



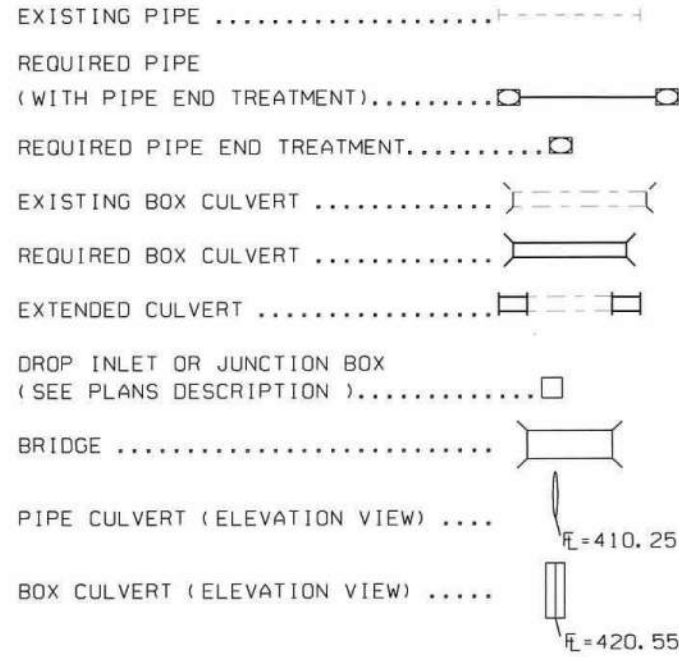
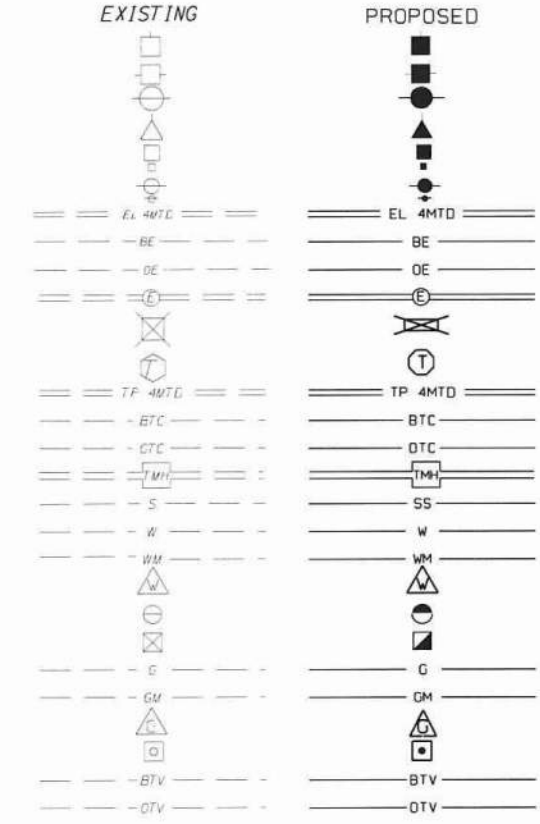
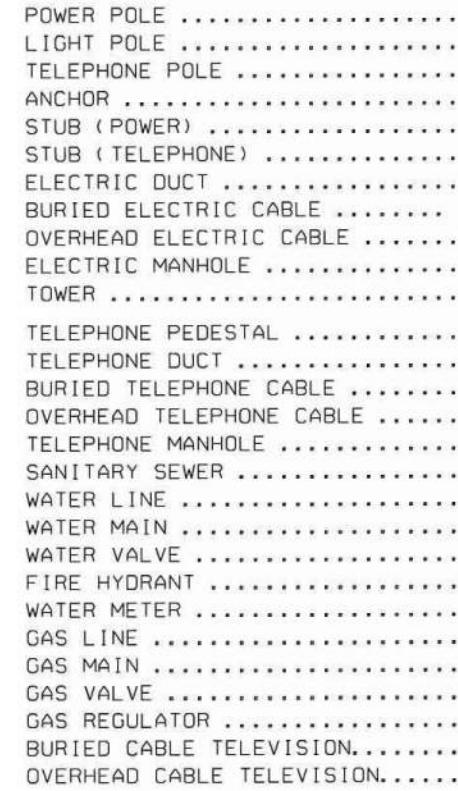
REVISION NO.	DESCRIPTION	DATE	BY:

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ROADWAY

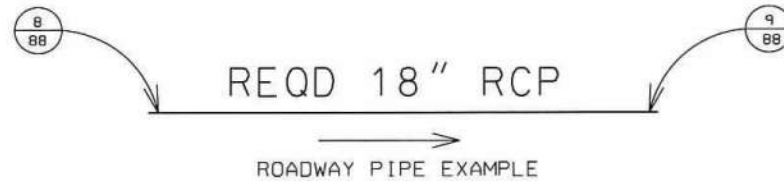


UTILITIES

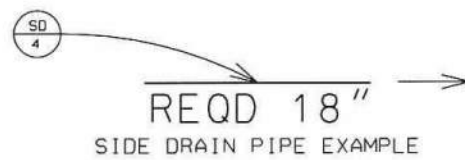


DRAINAGE STRUCTURE INDEX NUMBERS

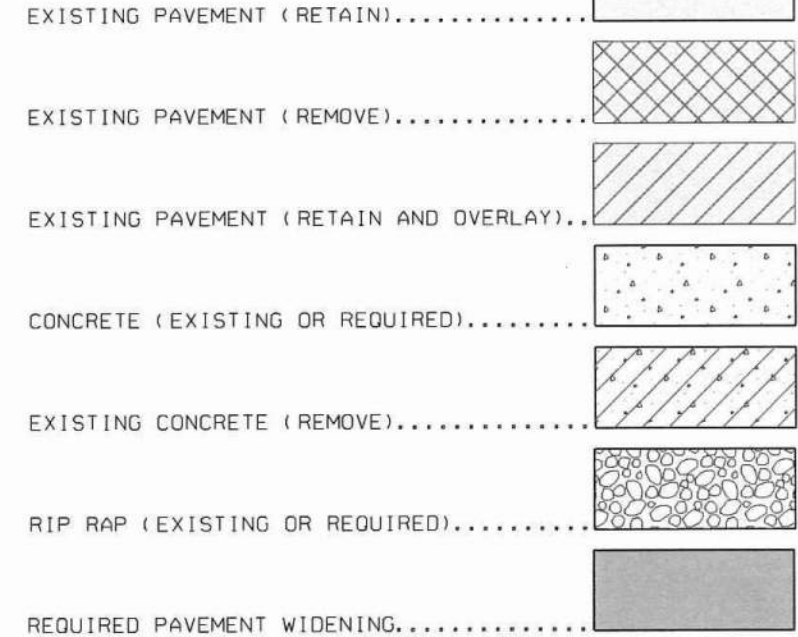
DRAINAGE STRUCTURE WRITE-UPS ARE LOCATED ON THE DRAINAGE CROSS-SECTION SHEETS. STRUCTURES WITH WRITE-UPS ARE INDEXED AT EACH END, WITH NUMBERS ASSIGNED BY DIRECTION OF FLOW. THE NUMBER IN THE UPPER HALF OF THE CIRCLE (EXAMPLE 8 OR 9) IS THE DRAINAGE STRUCTURE INDEX NUMBER. THE NUMBER IN THE LOWER HALF (EXAMPLE 88) IS THE SHEET REFERENCE NUMBER.



ALL INFORMATION CONCERNING THE DISPOSITION OF SIDE DRAIN PIPE IS SHOWN ON THE SUMMARY OF QUANTITIES BOX SHEET. THE TOP LETTERS (SD) ARE FOR SIDE DRAIN AND THE BOTTOM NUMBER IS THE DRAINAGE STRUCTURE INDEX NUMBER.



DIRECTION OF FLOW



CANAL ROAD IMPROVEMENTS
FROM SR-161 TO WILSON BOULEVARD

CITY OF ORANGE BEACH
ORANGE BEACH, ALABAMA



NO.	DESCRIPTION	DATE	BY

THESE PLANS AND SPECIFICATIONS ARE PREPARED BY THOMPSON ENGINEERING, INC. FOR THE CITY OF ORANGE BEACH, ALABAMA. THESE PLANS AND SPECIFICATIONS ARE NOT TO BE USED FOR ANY OTHER PROJECT WITHOUT THE WRITTEN CONSENT OF THOMPSON ENGINEERING, INC. ANY REVISIONS TO THESE PLANS SHALL BE INDICATED BY A REVISION TABLE AND SHALL BE APPROVED BY THE CITY ENGINEER AND THE CITY COMMISSIONER.

PLANS LEGEND

DATE: SEPT 2021

APPROVED BY: [Signature]

THOMPSON ENGINEERING, INC.
ORANGE BEACH, ALABAMA 36561
(251) 378-6180

thompson

SCALE: NTS

PREPARED BY: [Signature]

CHECKED BY: [Signature]

DRAWN BY: [Signature]

DATE: 20-1101-0085

REVISION NO.: ..

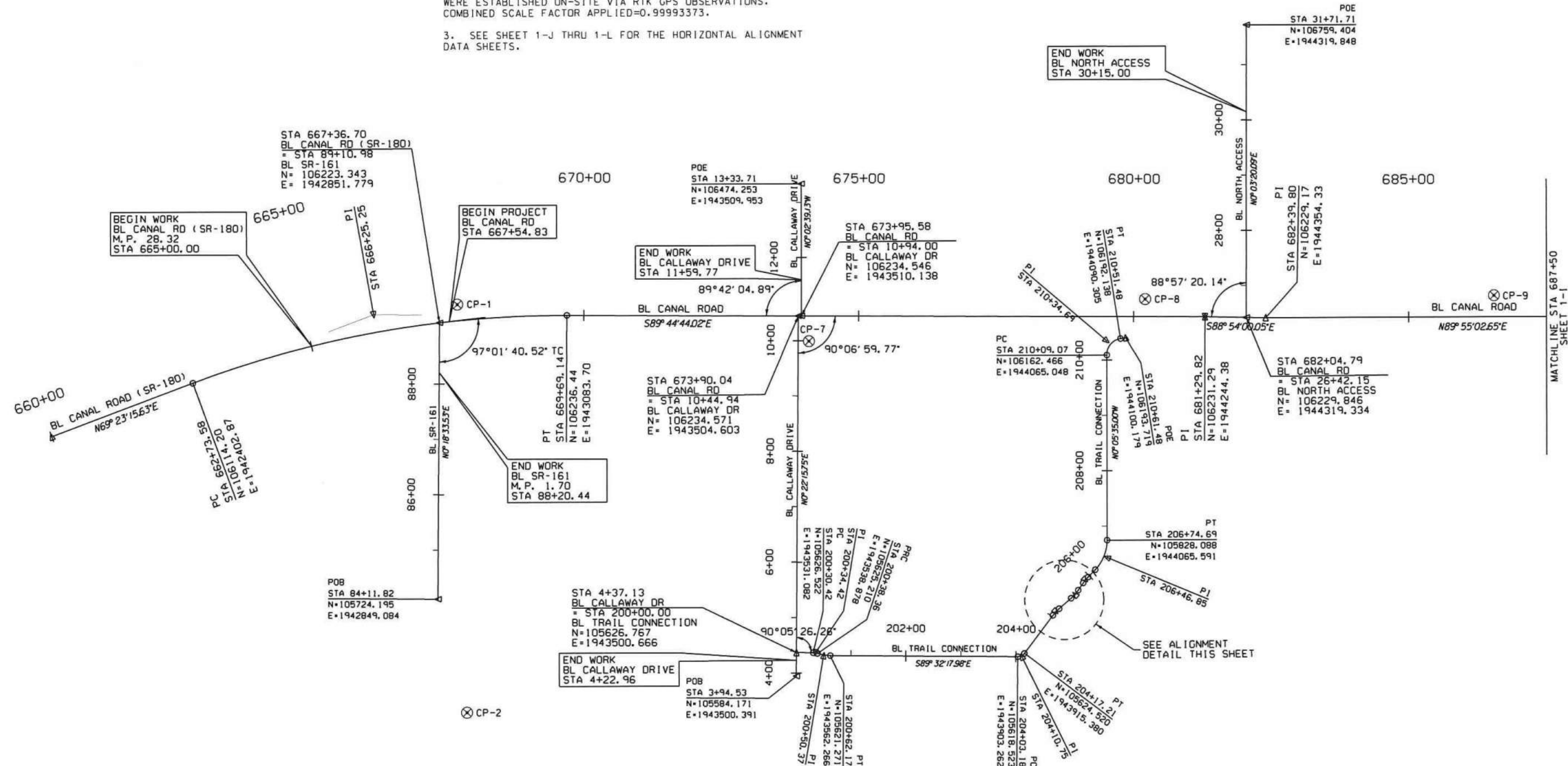


Table with 4 columns: REVISION NO., DESCRIPTION, DATE, and REVISION BY. Includes a disclaimer at the bottom regarding the use of the drawings.

Main table of abbreviations with 4 columns: Abbreviation, Description, Abbreviation, Description. Includes categories like STRUCTURES, UTILITIES, and PROPERTY.

HORIZONTAL AND VERTICAL CONTROL POINTS						
POINT NO.	STA	OFFSET	NORTHING	EASTING	ELEVATION (FT)	DESCRIPTION
1	667+72.22	29.28' LT	106256.313	1942884.209	18.90	RED CAPPED REBAR (WATTIER)
2	666+85.14	704.50' RT	105519.440	1942901.938	12.94	RED CAPPED REBAR (WATTIER)
7	674+09.58	45.72' RT	106188.763	1943523.935	16.72	RED CAPPED REBAR (WATTIER)
8	680+20.70	31.89' LT	106263.659	1944135.393	15.86	4" MAG HUB
9	686+54.88	38.94' LT	106268.710	1944769.354	15.87	4" MAG HUB

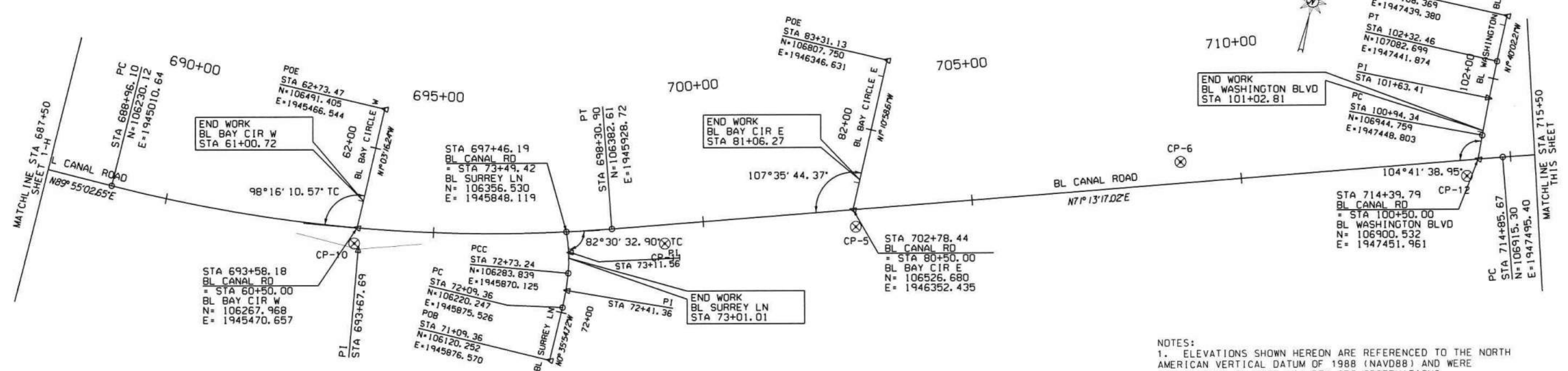
- NOTES:
- ELEVATIONS SHOWN HEREON ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88) AND WERE ESTABLISHED ON-SITE VIA RTK GPS OBSERVATIONS.
 - HORIZONTAL COORDINATES SHOWN HEREON ARE REFERENCED TO STATE PLANE COORDINATES, ALABAMA WEST ZONE, NAD 83 AND WERE ESTABLISHED ON-SITE VIA RTK GPS OBSERVATIONS. COMBINED SCALE FACTOR APPLIED=0.99993373.
 - SEE SHEET 1-J THRU 1-L FOR THE HORIZONTAL ALIGNMENT DATA SHEETS.



SHEET NO. : 1-H JOB NO. : 20-1101-0085 DATE : SEPT 2021 REVISION NO. : ..	CANAL ROAD IMPROVEMENTS FROM SR-161 TO WILSON BOULEVARD PRIMARY SURVEY CONTROL AND GEOMETRIC LAYOUT SHEET	CITY OF ORANGE BEACH ORANGE BEACH, ALABAMA THOMPSON ENGINEERING, INC. 201 WILSON BOULEVARD, SUITE 5050 ORANGE BEACH, ALABAMA 36561 PHONE: (251) 378-6190
PREPARED BY : DRAWN BY : CHECKED BY : APPROVED BY :		SCALE: HORIZ 1"=100' VERT 1"=10'
REVISION NO. : REVISION NO. : REVISION NO. : REVISION NO. :	DATE : DATE : DATE : DATE :	DESCRIPTION : DESCRIPTION : DESCRIPTION : DESCRIPTION :

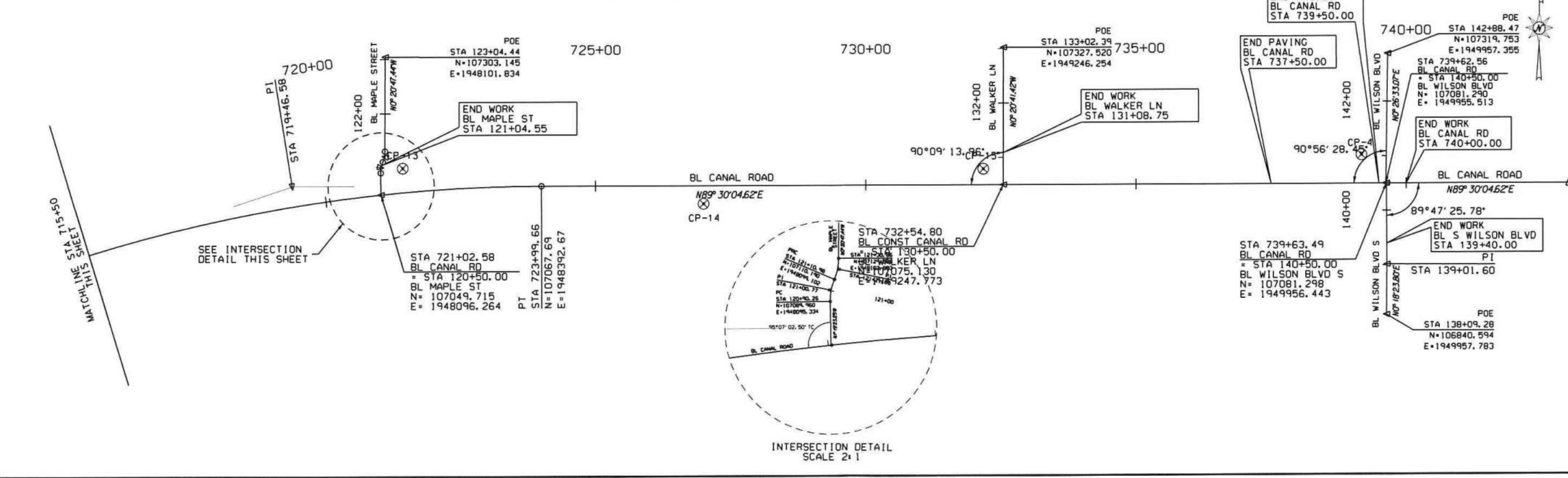
ALL DIMENSIONS, UNLESS OTHERWISE SPECIFIED, ARE IN FEET AND INCHES. THE USER SHALL BE RESPONSIBLE FOR VERIFYING THE ACCURACY OF THE INFORMATION SHOWN ON THIS SHEET. THE USER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES. THE USER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES. THE USER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES.

REVISION NO.	DESCRIPTION	DATE	BY



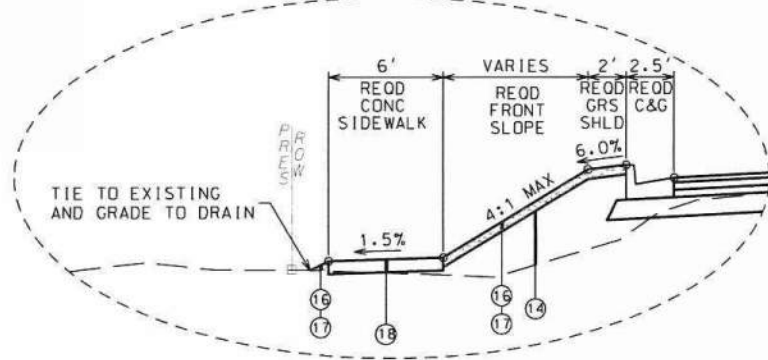
HORIZONTAL AND VERTICAL CONTROL POINTS						
POINT NO.	STA	OFFSET	NORTHING	EASTING	ELEVATION (FT)	DESCRIPTION
3	739+74.60	781.48' RT	106299.941	1949974.356	5.52	RED CAPPED REBAR (WATTIER)
4	739+17.35	52.66' LT	107133.552	1949909.848	18.90	RED CAPPED REBAR (WATTIER)
5	702+81.36	31.69' RT	106497.619	1946365.395	17.92	RED CAPPED REBAR (WATTIER)
6	708+90.01	38.74' LT	106760.227	1946918.973	17.48	RED CAPPED REBAR (WATTIER)
10	693+55.28	28.85' RT	106239.025	1945472.439	18.61	RED CAPPED REBAR (WATTIER)
11	699+26.31	34.47' RT	106380.690	1946030.139	17.02	4" MAG HUB
12	714+16.76	29.12' RT	106865.550	1947439.536	18.13	RED CAPPED REBAR (WATTIER)
13	721+46.65	44.43' LT	107098.541	1948135.794	18.78	RED CAPPED REBAR (WATTIER)
14	726+99.48	33.12' RT	107037.182	1948692.771	19.64	RED CAPPED REBAR (WATTIER)
15	732+17.79	29.15' LT	107103.955	1949210.510	18.79	RED CAPPED REBAR (WATTIER)

NOTES:
 1. ELEVATIONS SHOWN HEREON ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88) AND WERE ESTABLISHED ON-SITE VIA RTK GPS OBSERVATIONS
 2. HORIZONTAL COORDINATES SHOWN HEREON ARE REFERENCED TO STATE PLANE COORDINATES, ALABAMA WEST ZONE, NAD 83 AND WERE ESTABLISHED ON-SITE VIA RTK GPS OBSERVATIONS. COMBINED SCALE FACTOR APPLIED=0.99993373.
 3. SEE SHEET 1-J THRU 1-L FOR THE HORIZONTAL ALIGNMENT DATA SHEETS.

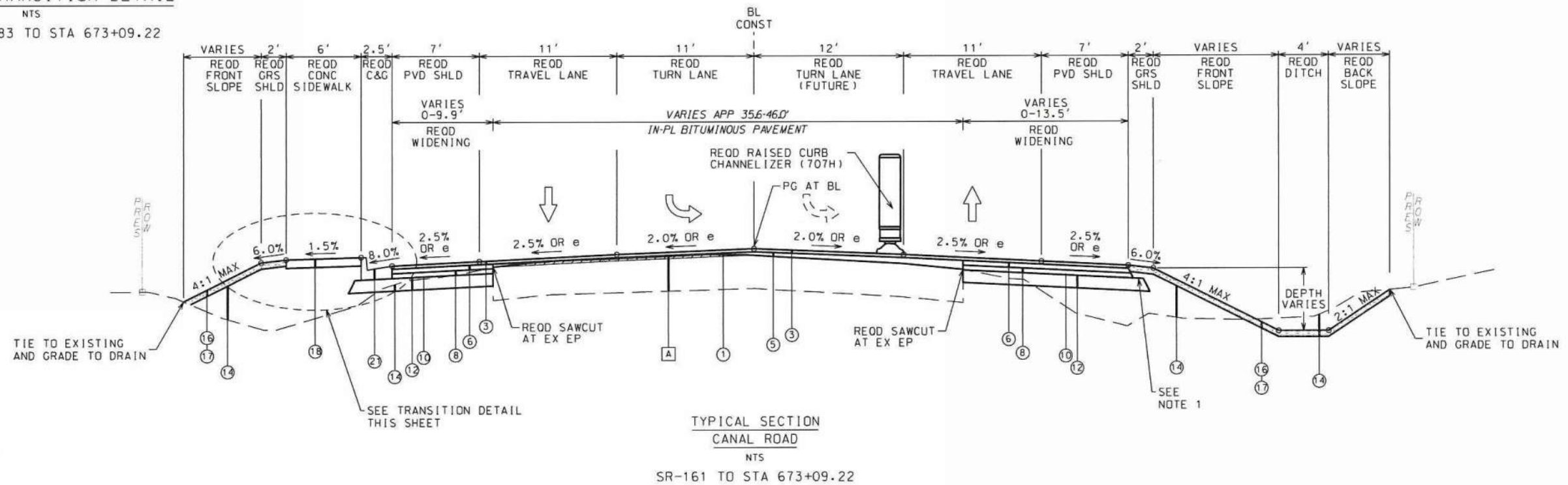


INTERSECTION DETAIL SCALE 2:1

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SIDEWALK TRANSITION DETAIL
NTS
STA 667+54.83 TO STA 673+09.22



TYPICAL SECTION
CANAL ROAD
NTS
SR-161 TO STA 673+09.22

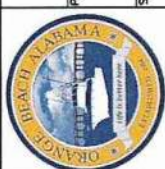
EXISTING MATERIALS LEGEND	
A	IN PLACE: BITUMINOUS PAVEMENT (APPROXIMATE THICKNESS: 7.75") (RETAIN, PLANE, LEVEL AND OVERLAY)
REQUIRED MATERIALS LEGEND	
1	REOD: (408A-052) PLANING EXISTING PAVEMENT (APPROXIMATELY 1.10" THRU 2.0" THICK)
3	REOD: (424A-360) SUPERPAVE BITUMINOUS CONCRETE WEARING SURFACE LAYER, 1/2" MAXIMUM AGGREGATE SIZE MIX, ESAL RANGE C/D (165 LBS/SY)
5	REOD: (424A-366) SUPERPAVE BITUMINOUS CONCRETE WEARING SURFACE LAYER, LEVELING, 1/2" MAXIMUM AGGREGATE SIZE MIX, ESAL RANGE C/D (APP 0-250 LBS/SY)
6	REOD: (424B-651) SUPERPAVE BITUMINOUS CONCRETE UPPER BINDER LAYER, 1" MAXIMUM AGGREGATE SIZE MIX, ESAL RANGE C/D (250 LBS/SY)
8	REOD: (424B-681) SUPERPAVE BITUMINOUS CONCRETE LOWER BINDER LAYER, 1" MAXIMUM AGGREGATE SIZE MIX, ESAL RANGE C/D (250 LBS/SY)
10	REOD: (401A-000) BITUMINOUS TREATMENT A
12	REOD: (301A-012) CRUSHED AGGREGATE BASE COURSE, TYPE B, PLANT MIXED, 6" COMPACTED THICKNESS (EXTEND 6" BEYOND OVERLYING BINDER LAYER)
13	REOD: (230A-000) ROADBED PROCESSING (EXTEND 12" BEYOND OVERLYING BASE LAYER)
14	REOD: (210A-000) UNCLASSIFIED EXCAVATION OR (210D-020) BORROW EXCAVATION (A-2 OR BETTER)(LOOSE TRUCKBED MEASUREMENT)
16	REOD: (650A-000) TOPSOIL
17	REOD: (654A-001) SOLID SODDING (BERMUDA)
18	REOD: (618A-000) CONCRETE SIDEWALK, 4" THICK
19	REOD: (618A-001) CONCRETE SIDEWALK, 6" THICK
20	REOD: (623C-000) COMBINATION CURB & GUTTER, TYPE C

NOTES:

- PAY ITEM 301A-012 SHOULD EXTEND A MINIMUM OF SIX (6) INCHES BEYOND THE ABOVE WEARING LAYER.
- PAY ITEM 230A-000 SHOULD EXTEND A MINIMUM OF TWELVE (12) INCHES BEYOND THE LIMITS OF THE ABOVE BASE LAYER.
- ROADBED PROCESSING IS WAIVED IN AREAS WHERE THE REQUIRED PROCESSING WIDTH IS LESS THAN SIX (6) FEET. IN THESE AREAS THE SUBGRADE SHALL BE COMPACTED TO 100% OF AASHTO T-99.
- THE IN-PLACE PAVED SHOULDERS WILL NOT REQUIRE REMOVAL PRIOR TO WIDENING. SHOULD IT BECOME APPARENT DURING CONSTRUCTION THAT THE THICKNESS OF THE ASPHALT SHOULDER IS LESS THAN 5 INCHES, THE SHOULDER SHOULD BE SAWCUT AND REMOVED PRIOR TO WIDENING.
- THE CONTRACTOR SHALL CLEAN AND SWEEP JOINTS PRIOR TO THE PLACEMENT OF THE JOINT SEALANT TO ENSURE ADHESION.
- OFFSITE BORROW SHALL MEET THE CITY OF ORANGE BEACH REQUIREMENTS FOR FILL MATERIALS PLACED IN THIS AREA.
- SEE PAVING LAYOUTS ON SHEETS ?-?.
- SEE SIGNING AND STRIPING LAYOUTS ON SHEETS ?-?.

CANAL ROAD IMPROVEMENTS
FROM SR-161 TO WILSON BOULEVARD

CITY OF ORANGE BEACH, ALABAMA



REVISION NO.	DESCRIPTION	DATE	BY

THOMPSON ENGINEERING, INC.
1511 WILSON BOULEVARD, SUITE 100
ORANGE BEACH, ALABAMA 36561
PHONE: (904) 378-6980
FAX: (904) 378-6981
WWW.TEORANGE.COM

THOMPSON
ENGINEERING, INC.

PREPARED BY:
DRAWN BY:
CHECKED BY:
APPROVED BY:
DATE: SEPT 2021
JOB NO.: 20-1101-0085
REVISION NO.:
TYPICAL SECTIONS

UNLESS OTHERWISE SPECIFIED, ALL MATERIALS SHALL BE AS SHOWN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL, STATE AND FEDERAL AGENCIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL, STATE AND FEDERAL AGENCIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL, STATE AND FEDERAL AGENCIES.

NOTE NO. 100

OMIT

NOTE NO. 200

201 THE CONTRACTOR SHALL USE THE TYPICAL SECTIONS IN CONJUNCTION WITH THE PAVING LAYOUT SHEETS AND CROSS SECTIONS FOR REQUIRED PAVEMENT WIDTHS, TRANSITIONS, RADII, TAPER LENGTHS, ROADSIDE GEOMETRY, SLOPES, DITCH LOCATIONS, ETC.

202 ROADBED PROCESSING FOR THE SUBGRADE IN AREAS SIX (6) FEET WIDE OR LESS SHALL BE WAIVED. THE DENSITY OF SUBGRADE IN THESE AREAS SHALL BE TO 100% COMPACTION MEETING AASHTO T-99 STANDARDS, AND THE PAYMENT OF THIS WORK SHALL BE A SUBSIDIARY OBLIGATION OF THE OVERLYING

203 PAY ITEM 230A-000 SHOULD EXTEND A MINIMUM OF TWELVE (12) INCHES BEYOND THE LIMITS OF THE ABOVE

204 PAY ITEM 301A-012 SHOULD EXTEND A MINIMUM OF SIX (6) INCHES BEYOND THE ABOVE BINDER LAYER.

205 OFFSITE BORROW SHALL MEET THE CITY OF ORANGE BEACH REQUIREMENTS FOR FILL MATERIALS PLACED IN

206 THE FULL BUILDUP SHALL EXTEND THROUGH ALL SIDE STREETS AND DRIVEWAYS. ON SIDE STREETS, THE FULL BUILDUP SHALL EXTEND TO THE BACK OF RADIUS.

207 WORK ASSOCIATED WITH THE NOTCHING OF THE CRUSHED AGGREGATE BASE COURSE TO ACCOMMODATE THE REQUIRED CURB & GUTTER SHALL BE A SUBSIDIARY OBLIGATION OF ITEM 623C.

208 JOB MIX AND L.A. ABRASION DATA NOT AVAILABLE FOR THIS PROJECT.

209 THE EXISTING PAVEMENT AT THE BEGINNING AND END OF PROJECT AND INTERSECTING STREETS AND DRIVEWAYS SHALL BE PLANED TO THE DEPTH REQUIRED TO PLACE THE WEARING SURFACE LAYER. PAVEMENT PLANING DEPTH AND LENGTH SHALL BE AS DETAILED OR DIRECTED BY THE ENGINEER. THE COST OF THIS WORK, INCLUDING THE REMOVAL AND THE DISPOSAL OF THE PLANED MATERIAL, SHALL BE A

210 WHEN DROPOFFS ARE PRESENT AT PAVEMENT TIE-IN LOCATIONS, A TEMPORARY BITUMINOUS WEDGE OF EFFECTIVE LENGTH SHALL BE PLACED. THE COST SHALL BE PAID FOR UNDER ITEM 424A.

211 THE CONTRACTOR SHALL MAKE PROVISIONS NECESSARY TO PREVENT MILLED ASPHALT MATERIAL FROM ENTERING INLETS. ANY MATERIAL THAT ACCUMULATES IN GUTTERS OR INLETS SHALL BE REMOVED BEFORE PAVING OPERATIONS ARE COMPLETED.

212 IN CASES WHERE PAVEMENT AND/OR PAVED APRONS TO BE REMOVED ARE ADJACENT TO RETAINED PAVEMENT, A FULL DEPTH SAWCUT ALONG THE EDGE TO BE REMOVED SHALL BE MADE PRIOR TO REMOVAL. ALL COSTS RELATING TO THIS SHALL BE A SUBSIDIARY OBLIGATION OF ITEM 424B.

NOTE NO. 300

301 THE COST OF CONSTRUCTION FUEL SHALL BE AN INCIDENTAL COST TO ASPHALT PAY ITEMS INCLUDED IN THIS

302 THE REMOVAL AND DISPOSAL OF IN-PLACE ASPHALT PAVEMENT SHALL BE PAID FOR AS 210A UNCLASSIFIED

303 ANY REQUIRED PLANING, REGARDLESS OF DEPTH, SHALL BE PAID FOR AS 408A-052.

304 TEMPORARY PAVEMENT MARKERS SHALL BE OF THE PERMANENT TYPE MEETING THE REQUIREMENTS OF SUBARTICLE 882.02(b) OF THE STANDARD SPECIFICATIONS.

305 APPROXIMATELY 2,000 TONS OF AGGREGATE SURFACING ITEM 430B HAS BEEN SETUP FOR USE AS DIRECTED BY THE ENGINEER FOR TEMPORARY CONNECTIONS TO DRIVEWAY AND AS A TEMPORARY WEDGE WHEN CUTS ARE LEFT OPEN OVERNIGHT ADJACENT TO THE TRAVELWAY. NO TESTING IS REQUIRED BUT THE MATERIAL SHALL BE ACCEPTED BY VISUAL INSPECTION OF THE ENGINEER.

NOTE NO. 400

401 ALL PERMANENT AND/OR TEMPORARY STRIPING PLACED ON A FINAL WEARING SURFACE THAT DOES NOT MEET THE TOLERANCES SPECIFIED SHALL BE REMOVED BY HYDRAULIC MEANS ONLY AND REPLACED WITHOUT COMPENSATION. THIS INCLUDES AREAS WHERE THE PERMANENT STRIPING DOES NOT MATCH THE ALIGNMENT, SPACING, ETC. OF THE TEMPORARY STRIPE, LEAVING THE TEMPORARY STRIPE EXPOSED.

402 ANY ITEMS OF WORK PERFORMED IN RESIDENTIAL OR COMMERCIAL AREAS TO REPLACE OR TIE TO EXISTING STRUCTURES SHALL BE DONE IN KIND, TO MATCH EXISTING CONDITIONS.

NOTE NO. 500

OMIT

NOTE NO. 600

OMIT

NOTE NO. 700

SEE SHEET 2-Q FOR GENERAL TRAFFIC CONTROL PLAN NOTES

NOTE NO. 800

801 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. THE LOCATION OF ANY REQUIRED GUARDRAIL, SIGNS, FOOTINGS OF ANY NATURE AND/OR ELECTRICAL/COMMUNICATIONS CONDUIT MAY BE ADJUSTED AS DIRECTED BY THE ENGINEER TO PREVENT

NOTE NO. 900

901 A NOTICE OF INTENT FOR NPDES PERMIT COVERAGE HAS BEEN FILED WITH ADEM FOR THIS PROJECT. A COPY OF THE CONSTRUCTION BEST MANAGEMENT PRACTICES PLAN (CBMPP) IS AVAILABLE THROUGH THE

902 THERE SHALL BE NO FUEL TANKS STORED ON THE RIGHT OF WAY. IN ADDITION, FUEL TRUCKS OR VEHICLES TRANSPORTING CHEMICALS, FERTILIZER, ETC., SHALL NOT BE LEFT UNATTENDED ON THE RIGHT OF WAY.

903 1,500 SQ YD OF POLYETHYLENE AND 750 SANDBAGS ARE SETUP FOR USE AS DIRECTED BY THE ENGINEER TO COVER EXPOSED ERODIBLE SOIL PRIOR TO RAINFALL EVENTS.

NOTE NO. 1000

OMIT

NOTE NO. 1100

OMIT



Table with columns: REVISION NO., DATE, DESCRIPTION, BY. Includes a disclaimer at the bottom regarding the use of the project and the engineer's responsibility.

- ALL METERS SHALL BE INSTALLED OFF OF ALDOT RIGHT-OF WAY.
- ALL MANHOLES, VALVE BOXES, AND HAND HOLES SHOULD BE FLUSH WITH EXISTING GROUND.
- APPLICANT SHALL CONTACT THE DISTRICT ADMINISTRATOR 48 HOURS PRIOR TO BEGINNING WORK ON ALDOT RIGHT-OF-WAY. THE DISTRICT ADMINISTRATORS ARE AS FOLLOWS:
 - AREA-9
 - (91) MOBILE COUNTY - DAVID A. HOLLOWELL, (251) 470-8219
 - (92) BALDWIN COUNTY - DAVID M. STYRON, (251) 937-2086
 - (93) ESCAMBIA AND CONECHU COUNTIES - MICKEY T. JONES, (251) 578-7540
- THE ENGINEER OF RECORD SHALL PROMPTLY WRITE AN AS-BUILT CERTIFICATION LETTER TO THE DISTRICT ADMINISTRATOR REQUESTING AN INSPECTION UPON COMPLETION OF THE PERMITTED WORK. ANY PUNCH LIST ITEMS SHALL BE COMPLETED PRIOR TO PROVISIONAL ACCEPTANCE OF WORK.
- BONDS SUBMITTED FOR PERMITS SHALL BE HELD FOR A (1) ONE-YEAR MAINTENANCE PERIOD WHICH BEGINS ON THE PROVISIONAL ACCEPTANCE DATE ISSUED BY THE DEPARTMENT. DURING THIS TIME ANY FAILURES, DEFICIENCIES, OR MAINTENANCE CARE SHALL BE THE RESPONSIBILITY OF THE APPLICANT. AT THE END OF THE MAINTENANCE PERIOD THE APPLICANT OR ENGINEER OF RECORD SHALL SUBMIT A BOND RELEASE REQUEST LETTER TO THE DISTRICT ADMINISTRATOR. BONDS ARE NOT RELEASED WITHOUT REQUEST.
- 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.)
- ONSITE REPRESENTATIVES & CONTACT INFORMATION: TIM TUCKER, (251) 974-5492
- 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
- ALL DISTURBED AREAS ON ROW SHALL RECEIVE 4" OF TOPSOIL AND BE SODDED OR SEEDDED AS DIRECTED BY THE DEPARTMENT.
- ALL WORK ON THE ROW WILL BE IN CONFORMANCE WITH THE LATEST EDITION OF ALDOT STANDARD SPECIFICATIONS.
- ELECTRIC POWER AND COMMUNICATION FACILITIES WILL CONFORM TO THE CURRENT APPLICABLE NATIONAL ELECTRICAL SAFETY CODE.
- A BEST MANAGEMENT PLAN SHALL AT A MINIMUM RETURN ALL EXPOSED AREAS TO ORIGINAL OR BETTER CONDITION AND REQUIRE STAND OF GRASS AND/OR SOD BEFORE ACCEPTANCE. SILT FENCE AND ANY OTHER EROSION CONTROL ITEMS NEEDED SHALL BE USED TO PREVENT EROSION. (NO HAYBALES ARE ALLOWED IN ROW).
- ALL TREES OVER 4" DBH SHALL NOT BE CUT/REMOVED WITHOUT WRITTEN PERMISSION FROM ALDOT.
- 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.)
- 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).
- 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 EXPENSE OF THE PERMIT APPLICANT.
- THE TOTAL AREA TO BE DISTURBED DURING CONSTRUCTION OF THIS PERMIT: 12.72 ACRE(S). (ON & OFF ROW COMBINED)
- WATER LINES SHALL CONFORM TO THE CURRENTLY APPLICABLE STANDARDS OF THE AMERICAN WATER WORKS ASSOCIATION.
- PRESSURE PIPE LINES SHALL CONFORM TO THE CURRENTLY APPLICABLE SECTIONS OF AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI).
- AS REQUIRED BY ALABAMA ACT 94-487: CALL TWO WORKING DAYS BEFORE EXCAVATION 1-800-292-8525, ALABAMA LINE LOCATION CENTER, INC.

- ALL EXISTING UTILITY FACILITIES IN THE PROPOSED WORK AREA HAVE BEEN 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 DILLIGENCE. ENGINEER INITIALS: C.D.W.
 - B. 811 LOCATE REQUEST #MULTIPLE
- 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.
- 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.
- THE APPLICANT SHALL SEE THAT ALL SOLID WASTE (I.E., WOOD, STUMPS, ETC.) IS DISPOSED OF IN ACCORDANCE WITH APPLICABLE REGULATIONS OF THE ALABAMA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT (ADEM).
- 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.
- 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.
- FUEL TANKS SHALL NOT BE STORED ON THE RIGH-OF-WAY OVERNIGHT. VEHICLES TRANSPORTING FUEL, CHEMICALS, FERTILIZERS, ETC. ONTO RIGHT-OF-WAY SHALL NOT BE LEFT UNATTENDED.
- 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.
- 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.
- MILEPOSTS 28.32 TO 22.32 SPEED LIMIT 35 STOPPING SIGHT DISTANCE 250 FT
- IS DRAINAGE/RUNOFF FROM THIS SITE DIRECTED ONTO STATE ROW? (CIRCLE) YES OR (NO)
ENGINEER INITIALS: C.D.W.
- ARE UTILITY, SIGNALS OR LIGHT POLE, RELATED CONFLICTS PRESENT OR ARE ANY RELOCATIONS REQUIRED FOR THIS PROJECT TO BE CONSTRUCTED AS PROPOSED IN THESE PLANS? (CIRCLE) (YES) OR NO
ENGINEER INITIALS: C.D.W.
- SHALL MINIMUM COVER OVER UTILITIES BE MAINTAINED UPON COMPLETION OF WORK? (CIRCLE) (YES) OR NO
ENGINEER INTIALS: C.D.W.
- THE LEGAL PERMIT APPLICANT IS HELD RESPONSIBLE AND LIABLE FOR ALL DAMAGES, ACTIONS, OR RESPONSIBILITIES OF THEIR APPOINTED CONTRACTORS, ASSIGNS, OR APPOINTEES.

UTILITY OWNERS

ORANGE BEACH WATER AUTHORITY 25097 CANAL ROAD ORANGE BEACH, AL 36561 CONTACT: JUDY SULLIVAN 251-981-4233	CENTURYLINK 19812 UNDERWOOD ROAD FOLEY, AL 36535 CONTACT: FOREST CHERNEY 251-952-5286	POWER SOUTH P.O. BOX 550 ANDALUSIA, AL 36420 CONTACT: PETE STONE 334-427-3306
CITY OF ORANGE BEACH-SEWER P.O. BOX 2432 ORANGE BEACH, AL 36561 CONTACT: JEFF HARTLEY 251-974-5617	MEDIACOM 25508 CABINET SHOP ROAD LOXLEY, AL 36551 CONTACT: SCOTT MILLER 850-525-6863	BALDWIN EMC P.O. DRAWER 220 SUMMERDALE, AL 36580 CONTACT: KEN PIMPERL 251-989-0134
HARBOR COMMUNICATIONS P.O. BOX 2063 MOBILE, AL 36652 CONTACT: KEVIN POLK 251-753-6102	SOUTHERN LIGHT, LLC 201 ST. JOSEPH STREET SUITE E MOBILE, AL 36602 CONTACT: JOHN HIXON 251-510-0080	CLARK-MOBILE COUNTIES GAS DISTRICT P.O. BOX 3069 ORANGE BEACH, AL 36561 CONTACT: JEFF WHITE 251-974-5432

THE DRAWING REQUIRES FIELD MEASUREMENT BY THOMPSON ENGINEERING, INC. FOR SPOC USE ON THE PROJECT AND IS NOT TO BE USED AS A BASIS FOR CONSTRUCTION WITHOUT THE EXPRESS WRITTEN CONSENT OF THOMPSON ENGINEERING, INC. ANY UNAUTHORIZED USE IS SUBJECT TO LEGAL ACTION UNDER STATE AND FEDERAL LAW.

○ DENOTES NOTES THAT APPLY TO THIS PROJECT

700 THE TRAFFIC CONTROL PLAN IS DEVELOPED IN CONFORMANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES PART 6, 2009 EDITION. THE TRAFFIC CONTROL DEVICES INDICATED REPRESENT CONDITIONS KNOWN DURING PLAN DEVELOPMENT. IN THE EVENT ACTUAL PHYSICAL CONDITIONS WARRANT ADDITIONAL TRAFFIC CONTROL DEVICES, THEY SHALL BE INSTALLED IN CONFORMANCE WITH THE M.U.T.C.D. PART 6 AS DIRECTED BY THE ENGINEER. COST SHALL BE PAID FOR UNDER THE APPROPRIATE PAY ITEM.

701 ALL BLACK ON ORANGE CONSTRUCTION SIGNS SHALL BE FABRICATED USING TYPE XI FLUORESCENT ORANGE REFLECTIVE SHEETING MATERIAL FOR THE SIGN BACKGROUND.

702 DURING NON-WORKING HOURS NO EQUIPMENT OR MATERIAL SHALL BE PARKED OR STORED CLOSER THAN 30 FEET TO THE EDGE OF ANY ROADWAY CARRYING TRAFFIC. WHEN THIS IS NOT PRACTICAL, IT SHALL BE PLACED IN AN AREA APPROVED BY THE ENGINEER AND DELINEATED BY REFLECTORIZED DRUMS. THIS INCLUDES STORAGE OF TRAFFIC CONTROL DEVICES SUCH AS TRAILER MOUNTED OR OTHER TEMPORARY SIGNS, BARRICADES, DRUMS, ETC., WHICH ARE NOT IN USE DURING NON-WORKING HOURS. TO BE FURNISHED BY THE CONTRACTOR WITHOUT COST TO THE ALDOT. (SEE SKETCH ON SHEET-----)

703 WHERE THE LOCATION OF A REQUIRED SIGN FALLS IN A DRIVEWAY, SIDEWALK, BRIDGE, ETC. OR WHERE THE VISIBILITY OF A SIGN IS LIMITED TO THE TRAVELING PUBLIC, THE LOCATION SHALL BE ADJUSTED AS DIRECTED BY THE ENGINEER.

704 THE CONTRACTOR IS TO REMOVE, RELOCATE OR COVER DURING CONSTRUCTION AND THEN RESET OR UNCOVER UPON COMPLETION OF A PARTICULAR SECTION ANY CONFLICTING IN-PLACE ROADWAY SIGNS AND DELINEATORS, AS DIRECTED BY THE ENGINEER. SIGNS REQUIRING REMOVAL SHALL BE STOCKPILED AS DIRECTED BY THE ENGINEER AND SHALL BECOME PROPERTY OF THE ALDOT. COST SHALL BE A SUBSIDIARY OBLIGATION OF ITEM 740B.

705 DURING ALL PHASES OF WORK, NON-APPLICABLE PAVEMENT STRIPING OR MARKINGS SHALL BE REMOVED AND APPROPRIATE PAVEMENT STRIPING OR MARKINGS SHALL BE PLACED AS EXPEDITIOUSLY AS PRACTICAL, BUT IN ALL CASES, SHALL BE IN PLACE BY NIGHTFALL ON ANY ROADWAY CARRYING TRAFFIC. EXCEPT ON SHORT TERM OPERATIONS WHERE IT IS DETERMINED BY THE ENGINEER, THAT SUCH REMOVAL AND REPLACEMENT IS MORE HAZARDOUS THAN LEAVING EXISTING MARKINGS IN PLACE. COST OF ANY REMOVAL SHALL BE PAID FOR UNDER ITEM 701D OR AS A SUBSIDIARY OBLIGATION OF ITEM 701C.

706 OMITTED

707 THE CONTRACTOR SHALL PLACE ALL ADVANCE WARNING SIGNS BEFORE PROCEEDING WITH HIS WORK. SIGNS SHALL BE PLACED IN ORDER, IN THE DIRECTION OF TRAFFIC AND REMOVED IN REVERSE ORDER.

708 ALL VEHICLES, EQUIPMENT, PERSONNEL (EXCEPT FLAGGERS), AND THEIR ACTIVITIES, ARE RESTRICTED AT ALL TIMES TO ONE SIDE OF THE PAVEMENT UNLESS OTHERWISE AUTHORIZED BY THE ENGINEER.

709 THE CONTRACTOR SHALL MAINTAIN AT LEAST ONE ACCESS TO BUSINESSES AND RESIDENCES DURING ALL PHASES OF CONSTRUCTION.

710 CONSTRUCTION SIGNS MOUNTED ON TEMPORARY SUPPORTS SHALL BE MOUNTED AT A MINIMUM HEIGHT OF 5 FEET.

711 FLAGGERS SHALL BE PROPERLY ATTIRED, EQUIPPED WITH STAFF MOUNTED STOP/SLOW PADDLES IN SIGHT OF EACH OTHER, OR HAVE DIRECT COMMUNICATION AT ALL TIMES. FLAGGER STATION LOCATION MAY BE VARIED FROM THOSE SHOWN BASED ON ROADWAY ALIGNMENT AND CONDITIONS AT THE TIME OF THE LANE CLOSURE.

712 FLAGGERS ARE TO BE USED WHEN DIRECTED BY THE ENGINEER. SIGNS SHALL BE PLACED AT THE APPROPRIATE TIME, AND SHALL BE COVERED OR REMOVED WHEN FLAGGERS ARE NOT ON DUTY AND DURING NON-WORKING HOURS.

713 FOR MOVING OPERATIONS, THE TRAFFIC CONES MAY BE DELETED IF THE FLAGGERS ARE IN SIGHT OF EACH OTHER, OR IF A PILOT CAR IS USED ON A TWO LANE ROADWAY.

714 OMITTED

715 ALL CONTRACTOR'S EMPLOYEES' PERSONAL VEHICLES, AND CONTRACTOR'S EQUIPMENT NOT IN OPERATION, SHALL BE PARKED A MINIMUM OF THIRTY (30) FEET FROM THE TRAVELED WAY DURING WORKING HOURS, AS NOT TO CREATE A HAZARD.

716 THE TRAFFIC CONTROL PLAN IS NOT ALL INCLUSIVE. THE TCP PROVIDES SEVERAL DETAILED DRAWINGS INDICATING THE TRAFFIC CONTROL NECESSARY FOR THE DIFFERENT CONSTRUCTION ACTIVITIES ANTICIPATED FOR THIS PROJECT. THE CONTRACTOR SHALL SELECT THE DETAILED DRAWING THAT BEST FITS THE ACTIVITY TO BE PERFORMED.

717 OMITTED

718 REQUIRED TEMPORARY ROUTE MARKER ASSEMBLIES THAT ARE TO BE LOCATED IN THE VICINITY OF EXISTING ROUTE MARKERS SHOULD BE PLACED ALONG SIDE OF THOSE ALREADY IN PLACE. SOME EXISTING ROUTE MARKERS MAY HAVE TO BE COVERED OR REMOVED, AS DIRECTED BY THE ENGINEER. COST SHALL BE A SUBSIDIARY OBLIGATION OF ITEM 740B.

719 RA-1 (REBUILD ALABAMA) SIGNS SHALL BE REQUIRED FOR EVERY PROJECT. RA-1 SIGNS SHALL BE PLACED AT THE BEGINNING OF THE WORK LIMITS OF THE SUBJECT PROJECT ROUTE. RA-1 SIGNS SHALL BE POSTED ON THE RIGHT-HAND SIDE OF THE ROADWAY ON THEIR OWN SUPPORT SYSTEM. THE RA-1 SIGNS SHALL BE REMOVED UPON COMPLETION OF THE PROJECT.

720 ALL TRAFFIC CONTROL DEVICES THAT ARE NOT APPLICABLE AT ANY SPECIFIC TIME SHALL BE COVERED OR REMOVED AS DIRECTED BY THE ENGINEER.

721 OMITTED

722 OMITTED

723 THE CONTRACTOR SHALL MAKE PROVISIONS FOR THE SAFETY OF PEDESTRIAN TRAFFIC CROSSING THE WORK ZONES DURING CONSTRUCTION.

724 OMITTED

725 ALL SIGNS SHALL BE POST-MOUNTED IF THE WORK PERIOD EXCEEDS FOUR DAYS, EXCEPT FOR THOSE SIGNS WHICH ARE MOUNTED ON BARRICADES. FOR REPEATED DAY OPERATIONS, SIGNS MAY BE MOUNTED ON TEMPORARY SUPPORTS AND REMOVED AT THE COMPLETION OF THE DAY'S OPERATION.

726 W8 SIGNS INTENDED TO WARN MOTORISTS OF SURFACE CONDITIONS EXTENDING FOR GREATER THAN 1 MILE SHALL BE PLACED PRIOR TO THE BEGINNING OF SURFACE CONDITION AND AT ONE MILE INCREMENTS THEREAFTER, WITH THE EXCEPTION SPECIFIED IN NOTE 727.

727 DURING THE WIDENING OR RESURFACING OF ANY ROADWAY CARRYING TRAFFIC, THE CONTRACTOR SHALL ADVISE THE MOTORISTS OF ANY EDGE OF PAVEMENT DROP-OFFS 3 INCHES OR GREATER BY PLACING SHOULDER DROP-OFF SIGNS EVERY 1/2 MILE BEGINNING PRIOR TO THE WIDENING OR RESURFACING. REQUIRED SHOULDER WORK TO ELIMINATE THE DROP-OFFS SHALL BE PURSUED IN AN EXPEDITIOUS MANNER FOLLOWING THE WIDENING AND/OR RESURFACING.

728 A DIFFERENCE IN ELEVATION OF APPROXIMATELY 2 INCHES OR LESS AT THE CENTERLINE MAY BE ALLOWED DURING NON-WORKING HOURS WITHOUT ADDITIONAL TRAFFIC CONTROL. SPECIAL CONDITIONS MAY EXIST WHERE PROTECTION SHOULD BE PROVIDED WHERE THE DIFFERENCE IS 2 INCHES OR LESS.

729 SIGNS ON TEMPORARY SUPPORTS ARE TO BE REMOVED OR COVERED WHEN NO WORK IS BEING PERFORMED OR AT THE COMPLETION OF THE DAY'S OPERATION.

730 OMITTED

731 OMITTED

732 CHANNELIZING DRUMS SHOULD BE PLACED ON 10 FOOT INTERVALS IN RADII.

733 CHANNELIZING DRUMS PLACED TO PROTECT COMPLETED WORK NOT OPEN TO TRAFFIC, SHOULD BE SPACED AT 50 FOOT INTERVALS.

734 CHANNELIZING DRUMS PLACED IN THE EXCAVATED AREA AHEAD OF PAVING OPERATIONS, SHOULD BE SPACED AT 50 FOOT INTERVALS.

735 CHANNELIZING DRUMS PLACED ON PAVEMENT DURING WORKING HOURS SHALL BE SHIFTED TO THE EDGE OF SHOULDER DURING NON-WORKING HOURS AND DURING PEAK PERIODS.

736 CHANNELIZING DRUMS SHOULD BE PLACED ON 25 FOOT INTERVALS THROUGHOUT ALL TAPERS.

737 CHANNELIZING DEVICES SHALL EXTEND TO A POINT WHERE THEY ARE VISIBLE TO APPROACHING TRAFFIC.

738 OMITTED

739 OMITTED

740 OMITTED

741 FOR DIVIDED ROADWAYS, THE REQUIRED ADVANCE WARNING SIGNS SHALL BE POSTED ON BOTH THE RIGHT AND LEFT SIDE OF THE ROADWAY.

742 THE CONTRACTOR SHALL CLOSE THE LANE ADJACENT TO THE WORK AREA ANYTIME WORK OUTSIDE THE EXISTING TRAVEL LANES ENCLOSES WITHIN 2 FEET OF THE EXISTING EDGE OF PAVEMENT.

743 OMITTED

744 THE TRANSITION TAPER LENGTH (L) IS SHOWN IN TABLE 6C-4, AND THE BUFFER LENGTH IS SHOWN IN TABLE 6C-2 OF THE MUTCD, PART 6, 2009 EDITION.

745 OMITTED

746 UNEVEN LANES SIGNS SHALL BE COVERED OR REMOVED WHEN NO UNEVEN PAVEMENT CONDITIONS EXIST.

747 MOVING OPERATIONS SHALL BE CONFINED TO ONE LANE IN THE DIRECTION OF TRAFFIC.

748 R16-3 (WHEN WORKERS ARE PRESENT BEGIN HIGHER FINES) AND R16-3a (END HIGHER FINES) SIGNS SHALL BE REQUIRED FOR EVERY PROJECT ON STATE ROUTES AND INTERSTATE HIGHWAYS. THESE SIGNS SHALL BE POSTED AT THE BEGINNING AND END OF THE PROJECT WITH AN R2-1 (REGULATORY SPEED SIGN) ALWAYS FOLLOWING THE R16-3 SIGN. ADDITIONAL R16-3 AND R2-1 SIGNS SHALL BE POSTED AT MAXIMUM INTERVALS OF THREE MILES THROUGHOUT THE PROJECT LIMITS.

749 WHEN A CONSTRUCTION WORK ZONE SPEED LIMIT REDUCTION IS NOT REQUIRED AT THE END OF THE WORK DAY, THE CONTRACTOR SHALL COVER OR REMOVE THE REDUCED R2-1 (REGULATORY SPEED SIGNS) AND THE W3-5b (REDUCED SPEED AHEAD) SIGNS UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

750 DURING REPLACEMENT OF GUARDRAIL AND/OR GUARDRAIL END ANCHORS, A REFLECTORIZED DRUM SHALL BE PLACED BEFORE THE END OF ANY EXPOSED GUARDRAIL AT NIGHT WHERE THE GUARDRAIL END CANNOT BE REPLACED IN ONE DAY'S TIME.

751 CONSTRUCTION SIGNS MOUNTED ON A SINGLE OR DUAL SQUARE TUBULAR OR U-CHANNEL POST SHALL BE INSTALLED AS SHOWN ON SPECIAL DRAWING NOS. IHS-710-21 AND IHS-710-23.

752 THE CONTRACTOR AND THE ENGINEER SHALL DISCUSS AND PLAN FOR THE HANDLING OF TRAFFIC FOR ALL HOLIDAYS BEFORE ANY WORK BEGINS. UNLESS OTHERWISE PRE-APPROVED BY THE REGION ENGINEER, THE FOLLOWING SHALL HOLD:

THE CONTRACTOR SHALL NOT HAVE A LANE CLOSURE DURING THE FOLLOWING PERIODS UNLESS OTHERWISE DIRECTED BY THE ENGINEER OR ALDOT:

FOR CHRISTMAS AND NEW YEARS DAY:
FROM 11:59 PM DECEMBER 23 THROUGH 6:00 AM JANUARY 2.

FOR NATIONAL MEMORIAL DAY AND LABOR DAY:
FROM 12:00 NOON THE FRIDAY BEFORE THE HOLIDAY THROUGH 11:59 PM THE DAY OF THE HOLIDAY.

FOR INDEPENDENCE DAY (THE 4TH OF JULY)
FROM 12:00 NOON THE DAY BEFORE THE HOLIDAY THROUGH 11:59 PM THE DAY OF THE HOLIDAY.

FOR THANKSGIVING DAY:
FROM 12:00 NOON THE WEDNESDAY BEFORE THANKSGIVING DAY THROUGH 11:59 PM THE SUNDAY FOLLOWING THANKSGIVING DAY.

ANY OTHER STATE HOLIDAYS WILL BE HANDLED AS APPROVED BY THE ENGINEER.

THE CONTRACTOR SHALL COORDINATE WITH THE ENGINEER AND LOCAL GOVERNMENT ON TRAFFIC AND/OR WORK RESTRICTIONS FOR LOCAL HOLIDAYS OR EVENTS NOT LISTED ON ALDOT'S LIST OF OFFICIAL STATE HOLIDAYS.

CANAL ROAD IMPROVEMENTS FROM SR-161 TO WILSON BOULEVARD
GENERAL TRAFFIC CONTROL PLAN NOTES

CITY OF ORANGE BEACH, ALABAMA
ORANGE BEACH, ALABAMA

PREPARED BY: Thompson
DRAWN BY: Thompson
CHECKED BY: Thompson
APPROVED BY: Thompson

THOMPSON ENGINEERING, INC.
415777
ORANGE BEACH, ALABAMA 36561
(251) 378-6990

DATE: SEPT 2021
JOB NO.: 20-1101-0085
REVISION NO.: ..

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REVISIONS

NO.	DATE	DESCRIPTION

ALABAMA DEPARTMENT OF TRANSPORTATION
1409 COLISEUM BOULEVARD
MONTGOMERY, AL 36130-3050
DESIGN BUREAU SPECIAL DRAWING
GENERAL TRAFFIC CONTROL PLAN NOTES

DRAWN BY: _____
DATE DRAWN: 3/24/21

SPECIAL DRAWING NO.: SPECIAL PROJECT DETAIL
INDEX NO.: 2000

P:\2021\1101-0085\1101-0085.dwg

ITEM NUMBER	DESCRIPTION	UNIT	RESTORE GRANT QUANTITY	CITY PROJECT QUANTITY	TOTAL PLAN QUANTITY
201A-002	CLEARING AND GRUBBING (MAXIMUM ALLOWABLE BID \$ 8,000 PER ACRE) (APPROXIMATELY 12.0 ACRES)	LUMP SUM	0.8	0.2	1
206C-000	REMOVING CONCRETE SIDEWALK	SQUARE YARD	2630	1091	3721
206C-010	REMOVING CONCRETE DRIVEWAY	SQUARE YARD	285	17	302
206C-017	REMOVING CONCRETE PAD	SQUARE YARD	0	17	17
206D-000	REMOVING PIPE	LINEAR FOOT	2705	0	2705
206D-002	REMOVING CURB	LINEAR FOOT	189	936	1125
206D-003	REMOVING CURB AND GUTTER	LINEAR FOOT	83	44	127
206D-011	REMOVING FENCE	LINEAR FOOT	0	303	303
206E-000	REMOVING HEADWALLS	EACH	47	0	47
206E-002	REMOVING JUNCTION BOXES	EACH	2	0	2
209A-000	MAILBOX RESET, SINGLE	EACH	16	0	16
209A-002	MAILBOX RESET, MULTIPLE	EACH	2	0	2
210A-000	UNCLASSIFIED EXCAVATION	CUBIC YARD	4556	2421	6977
210D-020	BORROW EXCAVATION (LOOSE TRUCKBED MEASUREMENT)(A2 OR BETTER)	CUBIC YARD	10932	4190	15122
214A-000	STRUCTURE EXCAVATION	CUBIC YARD	1636	664	2300
214B-001	FOUNDATION BACKFILL, COMMERCIAL	CUBIC YARD	677	261	938
230A-000	ROADBED PROCESSING	ROADBED STATION	70	0	70
301A-008	CRUSHED AGGREGATE BASE COURSE, TYPE B, PLANT MIXED, 5" COMPACTED THICKNESS	SQUARE YARD	4800	4565	9365
301A-012	CRUSHED AGGREGATE BASE COURSE, TYPE B, PLANT MIXED, 6" COMPACTED THICKNESS	SQUARE YARD	16307	0	16307
401A-000	BITUMINOUS TREATMENT A	SQUARE YARD	21106	4565	25671
405A-000	TACK COAT	GALLON	6440	758	7198
408A-052	PLANING EXISTING PAVEMENT (APPROXIMATELY 1.10" THRU 2.0" THICK)	SQUARE YARD	8858	3439	12297
410H-000	MATERIAL REMIXING DEVICE	EACH	1	0	1
424A-336	SUPERPAVE BITUMINOUS CONCRETE WEARING SURFACE LAYER, 3/8" MAXIMUM AGGREGATE SIZE MIX, ESAL RANGE A/B	TON	500	306	806
424A-360	SUPERPAVE BITUMINOUS CONCRETE WEARING SURFACE LAYER, 1/2" MAXIMUM AGGREGATE SIZE MIX, ESAL RANGE C/D	TON	4657	490	5147
424B-651	SUPERPAVE BITUMINOUS CONCRETE UPPER BINDER LAYER, 1" MAXIMUM AGGREGATE SIZE MIX, ESAL RANGE C/D	TON	1852	217	2069
424B-655	SUPERPAVE BITUMINOUS CONCRETE UPPER BINDER LAYER, PATCHING, 1" MAXIMUM AGGREGATE SIZE MIX, ESAL RANGE C/D	TON	251	12	263
424B-657	SUPERPAVE BITUMINOUS CONCRETE UPPER BINDER LAYER, LEVELING, 1/2" MAXIMUM AGGREGATE SIZE MIX, ESAL RANGE C/D	TON	996	0	996
424B-681	SUPERPAVE BITUMINOUS CONCRETE LOWER BINDER LAYER, 1" MAXIMUM AGGREGATE SIZE MIX, ESAL RANGE C/D	TON	1930	0	1930
430B-040	AGGREGATE SURFACING (CRUSHED AGGREGATE BASE, TYPE B)	TON	1698	500	2198
450A-006	REINFORCED CEMENT CONCRETE PAVEMENT, 10 INCHES THICK	SQUARE YARD	664	0	664
530A-001	18" ROADWAY PIPE (CLASS 3 R.C.)	LINEAR FOOT	218	18	236
530B-014	36" SPAN, 23" RISE ROADWAY PIPE (CLASS 3 R.C.) (EXTENSION)	LINEAR FOOT	0	18	18
532A-030	12" SLOTTED DRAIN PIPE	LINEAR FOOT	0	40	40
532A-032	18" SLOTTED DRAIN PIPE	LINEAR FOOT	100	60	160
533A-855	12" STORM SEWER PIPE	LINEAR FOOT	0	125	125
533A-097	15" STORM SEWER PIPE (CLASS 3 R.C.)	LINEAR FOOT	0	24	24
533A-098	18" STORM SEWER PIPE (CLASS 3 R.C.)	LINEAR FOOT	1546	90	1636
533A-099	24" STORM SEWER PIPE (CLASS 3 R.C.)	LINEAR FOOT	577	864	1441
533A-900	4" STORM SEWER PIPE (PVC)	LINEAR FOOT	22	0	22
533B-099	29" SPAN, 18" RISE STORM SEWER PIPE (CLASS 3 R.C.)	LINEAR FOOT	152	0	152
533B-100	36" SPAN, 23" RISE STORM SEWER PIPE (CLASS 3 R.C.)	LINEAR FOOT	13	0	13
535B-088	22" SPAN, 14" RISE SIDE DRAIN PIPE (CLASS 3 R.C.)	LINEAR FOOT	904	0	904
535B-090	18" SPAN, 11" RISE SIDE DRAIN PIPE (CLASS 3 R.C.)	LINEAR FOOT	56	0	56
535B-091	29" SPAN, 18" RISE SIDE DRAIN PIPE (CLASS 3 R.C.)	LINEAR FOOT	1532	0	1532
600A-000	MOBILIZATION	LUMP SUM	1	0	1
602A-000	RIGHT OF WAY MARKERS	EACH	9	0	9
608A-000	SEPARATION GEOTEXTILE	SQUARE YARD	4800	4565	9365
610A-004	LOOSE RIPRAP, CLASS 2, 24" THICK	SQUARE YARD	0	11	11
610D-003	FILTER BLANKET, GEOTEXTILE	SQUARE YARD	0	16	16
614A-000	SLOPE PAVING	CUBIC YARD	1	0	1
618A-000	CONCRETE SIDEWALK, 4" THICK	SQUARE YARD	578	76	654
618A-001	CONCRETE SIDEWALK, 6" THICK	SQUARE YARD	1121	222	1343
618B-003	CONCRETE DRIVEWAY, 6" THICK (INCLUDES WIRE MESH)	SQUARE YARD	452	0	452
618C-002	DIRECTIONAL TACTILE WARNING SURFACE INDICATORS	SQUARE FOOT	56	0	56
618D-000	CURB RAMP	SQUARE YARD	375	97	472
619A-000	12" ROADWAY PIPE END TREATMENT, CLASS 1	EACH	0	1	1
619A-001	15" ROADWAY PIPE END TREATMENT, CLASS 1	EACH	0	1	1
619A-002	18" ROADWAY PIPE END TREATMENT, CLASS 1	EACH	5	0	5
619A-101	18" SIDE DRAIN PIPE END TREATMENT, CLASS 1	EACH	5	1	6
619A-202	24" ROADWAY PIPE END TREATMENT, CLASS 1 (DOUBLE LINE)	EACH	0	1	1
619B-018	36" SPAN, 23" RISE ROADWAY PIPE END TREATMENT, CLASS 1	EACH	0	1	1
619B-115	18" SPAN, 11" RISE SIDE DRAIN PIPE END TREATMENT, CLASS 1	EACH	2	0	2
619B-116	22" SPAN, 14" RISE SIDE DRAIN PIPE END TREATMENT, CLASS 1	EACH	30	0	30
619B-117	29" SPAN, 18" RISE SIDE DRAIN PIPE END TREATMENT, CLASS 1	EACH	38	0	38
619B-267	29" SPAN, 18" RISE ROADWAY PIPE END TREATMENT, CLASS 1 (DOUBLE LINE)	EACH	1	0	1
620A-000	MINOR STRUCTURE CONCRETE	CUBIC YARD	1	1	2
621A-011	JUNCTION BOXES, TYPE 1 OR 1P	EACH	37	0	37
621A-019	JUNCTION BOXES, TYPE 1 OR 2P	EACH	2	0	2
621C-140	INLETS, OPEN THROAT	EACH	4	0	4
621E-004	MANHOLES, TYPE L OR M (STORM)	EACH	3	2	5
621H-001	INLET TOPS, CURB & GUTTER	EACH	24	0	24
621H-002	INLET TOPS, CURB & GUTTER (DOUBLE)	EACH	7	0	7
621H-003	INLET TOPS, GUTTER	EACH	3	0	3

CITY OF ORANGE BEACH
ORANGE BEACH, ALABAMA

CANAL ROAD IMPROVEMENTS
FROM SR-161 TO WILSON BOULEVARD



PREPARED BY: Thompson Engineering, Inc.
4701 MARK STREET, SUITE F-272
ORANGE BEACH, ALABAMA 36561
(251) 778-6960

DATE: ..
DATE: SEPT 2021
JOB NO.: 20-1101-0085
REVISION NO.: ..

SCALE: ..
DRAWN BY: ..
CHECKED BY: ..
APPROVED BY: ..

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ITEM NUMBER	DESCRIPTION	UNIT	RESTORE GRANT QUANTITY	CITY PROJECT QUANTITY	TOTAL PLAN QUANTITY
623A-000	CONCRETE GUTTER	LINEAR FOOT	368	0	368
623B-000	CONCRETE CURB, TYPE N	LINEAR FOOT	2209	897	3106
623B-001	CONCRETE CURB, TYPE N SPECIAL	LINEAR FOOT	208	0	208
623B-150	CONCRETE CURB, TYPE RIBBON	LINEAR FOOT	242	0	242
623B-151	CONCRETE CURB, TYPE TRUCK APRON	LINEAR FOOT	633	0	633
623C-000	COMBINATION CURB & GUTTER, TYPE C	LINEAR FOOT	1599	102	1701
623C-003	COMBINATION CURB & GUTTER, TYPE C (MODIFIED)	LINEAR FOOT	22	0	22
645J-500	MANHOLE CONE RESET	EACH	4	0	4
645K-500	MANHOLE FRAME AND COVER RESET	EACH	4	0	4
650A-000	TOPSOIL	CUBIC YARD	1890	2100	3990
654A-001	SOLID SODDING (BERMUDA)	SQUARE YARD	31200	4700	35900
665A-000	TEMPORARY SEEDING	ACRE	7	1	8
665B-001	TEMPORARY MULCHING	TON	21	3	24
665E-000	POLYETHYLENE	SQUARE YARD	1000	500	1500
665G-000	SAND BAGS	EACH	500	250	750
665I-000	TEMPORARY RIPRAP, CLASS 2	TON	500	250	750
665J-002	SILT FENCE	LINEAR FOOT	13728	1000	14728
665N-001	TEMPORARY COARSE AGGREGATE, ALDOT NUMBER 4	TON	600	300	900
665O-001	SILT FENCE REMOVAL	LINEAR FOOT	13728	1000	14728
665P-005	INLET PROTECTION, STAGE 3 OR 4	EACH	80	0	80
665Q-002	WATTLE	LINEAR FOOT	1500	100	1600
666A-001	PEST CONTROL TREATMENT	ACRE	7	1	8
674A-000	CONSTRUCTION SAFETY FENCE	LINEAR FOOT	1000	500	1500
680A-001	GEOMETRIC CONTROLS	LUMP SUM	1	0	1
701A-227	SOLID WHITE, CLASS 2, TYPE A TRAFFIC STRIPE (5" WIDE)	MILE	3	1	4
701A-230	SOLID YELLOW, CLASS 2, TYPE A TRAFFIC STRIPE (5" WIDE)	MILE	4	1	5
701A-244	BROKEN YELLOW, CLASS 2, TYPE A TRAFFIC STRIPE (5" WIDE)	MILE	2	0	2
701B-207	DOTTED, CLASS 2, TYPE A TRAFFIC STRIPE (5" WIDE)	LINEAR FOOT	3356	0	3356
701C-003	SOLID TEMPORARY TRAFFIC STRIPE (PAINT)	MILE	13	0	13
701D-005	SOLID TRAFFIC STRIPE REMOVED	MILE	7	0	7
703A-002	TRAFFIC CONTROL MARKINGS, CLASS 2, TYPE A	SQUARE FOOT	8911	1391	10302
703B-002	TRAFFIC CONTROL LEGENDS, CLASS 2, TYPE A	SQUARE FOOT	292	45	337
703D-002	TEMPORARY TRAFFIC CONTROL MARKINGS (PAINT)	SQUARE FOOT	4456	696	5152
705A-030	PAVEMENT MARKERS, CLASS A-H, TYPE 2-C	EACH	214	0	214
705A-031	PAVEMENT MARKERS, CLASS A-H, TYPE 1-A	EACH	40	0	40
705A-032	PAVEMENT MARKERS, CLASS A-H, TYPE 1-B	EACH	70	0	70
705A-037	PAVEMENT MARKERS, CLASS A-H, TYPE 2-D	EACH	188	7	195
705A-038	PAVEMENT MARKERS, CLASS A-H, TYPE 2-E	EACH	11	0	11
707F-001	FLEXIBLE DELINEATOR POST WITH BASE, YELLOW	EACH	21	3	24
707H-000	RAISED CURB CHANNELIZER, YELLOW	LINEAR FOOT	462	0	462
710A-160	CLASS 10 ALUMINUM FLAT SIGN PANELS 0.08" THICK (TYPE XI BACKGROUND)	SQUARE FOOT	177	0	177
710A-165	CLASS 10 ALUMINUM FLAT SIGN PANELS 0.08" THICK (TYPE XI BACKGROUND, FLUORESCENT)	SQUARE FOOT	119	0	119
710A-170	CLASS 4, ALUMINUM FLAT SIGN PANELS 0.08" THICK (TYPE IV BACKGROUND)	SQUARE FOOT	216	0	216
710B-021	ROADWAY SIGN POST (#3 U CHANNEL, GALVANIZED STEEL OR 2", 14 GA SQUARE TUBULAR STEEL)	LINEAR FOOT	1092	98	1190
710C-000	REMOVAL OF EXISTING ROADWAY SIGNS	LUMP SUM	1	0	1
711A-000	ROADWAY SIGN RELOCATION	LUMP SUM	1	0	1
740B-000	CONSTRUCTION SIGNS	SQUARE FOOT	750	500	1250
740D-000	CHANNELIZING DRUMS	EACH	500	250	750
740E-000	CONES (36 INCHES HIGH)	EACH	250	125	375
740F-001	BARRICADES, TYPE II	EACH	10	50	60
740F-002	BARRICADES, TYPE III	EACH	10	0	10
740I-002	WARNING LIGHTS, TYPE B	EACH	20	50	70
740M-001	BALLAST FOR CONE	EACH	250	125	375
741C-010	PORTABLE SEQUENTIAL ARROW AND CHEVRON SIGN UNIT	EACH	2	0	2
742A-001	PORTABLE CHANGEABLE MESSAGE SIGN, TYPE 2	EACH	2	0	2

CANAL ROAD IMPROVEMENTS
FROM SR-161 TO WILSON BOULEVARD

CITY OF ORANGE BEACH
ORANGE BEACH, ALABAMA



BY:	DATE:	DESCRIPTION:

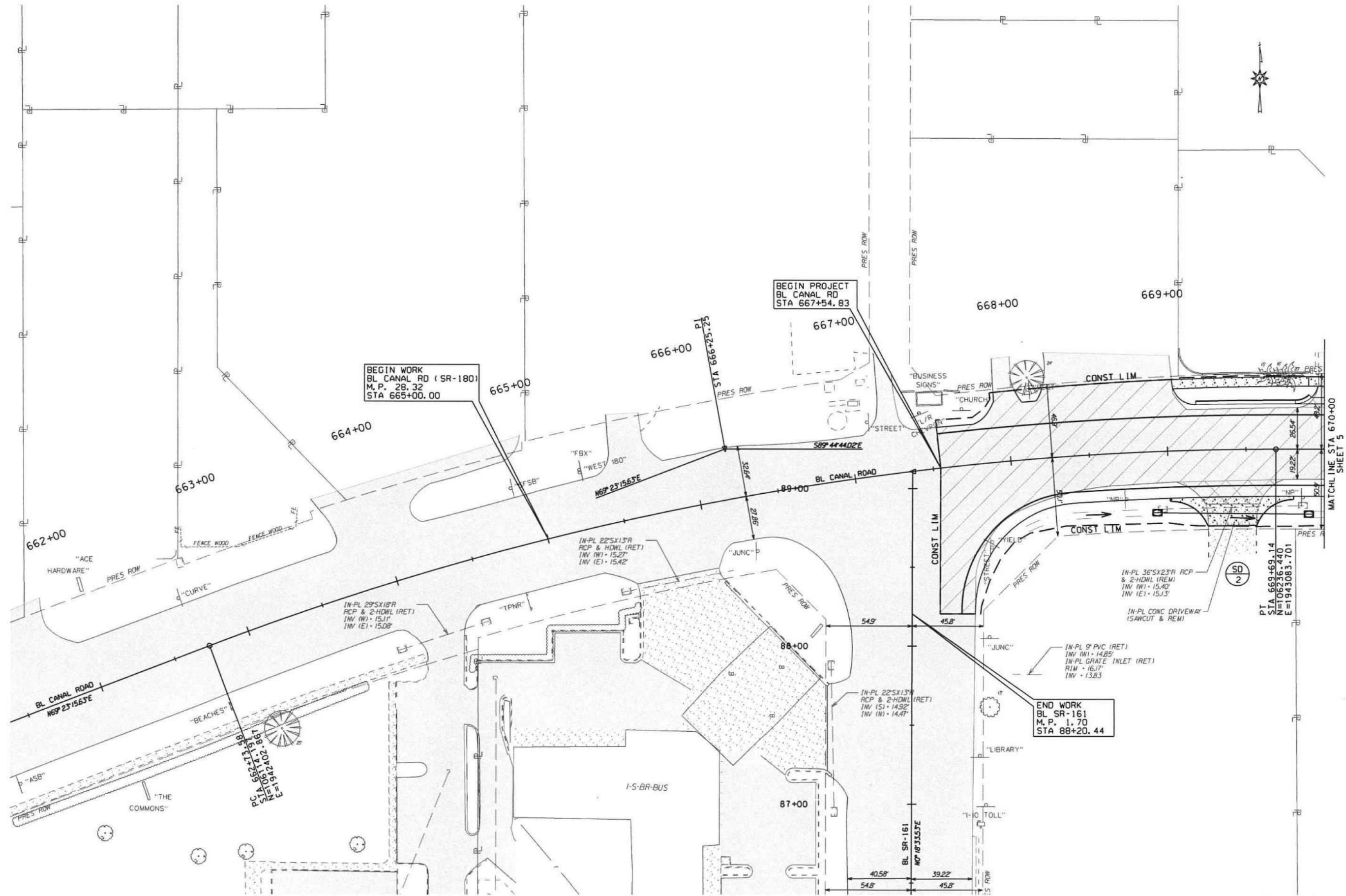
SUMMARY OF QUANTITIES

THOMPSON ENGINEERING, INC.
1100 W. GULF BLDG. 100
ORANGE BEACH, ALABAMA 36561
(251) 378-6900

APPROVED BY: [Signature] DATE: SEPT 2021
CHECKED BY: [Signature]
DRAWN BY: [Signature]
SCALE: [Blank]

JOB NO.: 20-1101-0085
REVISION NO.: ..

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BEGIN WORK
BL CANAL RD (SR-180)
M.P. 28.32
STA 665+00.00

BEGIN PROJECT
BL CANAL RD
STA 667+54.83

END WORK
BL SR-161
M.P. 1.70
STA 88+20.44



SHEET NO. : 4	
CITY OF ORANGE BEACH ORANGE BEACH, ALABAMA	
CANAL ROAD IMPROVEMENTS FROM SR-161 TO WILSON BOULEVARD	
thompson ENGINEERING, INC. 1700 W. WILSON BOULEVARD ORANGE BEACH, ALABAMA 36561 (251) 378-6180	PLAN SHEET
DATE: SEPT 2021	JOB NO.: 20-1101-0085
APPROVED BY:	CHECKED BY:
DRAWN BY:	SCALE: HORIZ 1"=30'
PREPARED BY:	MATCHLINE STA 670+00
DATE:	DATE:
DATE:	DATE:
DATE:	DATE:
DATE:	DATE:



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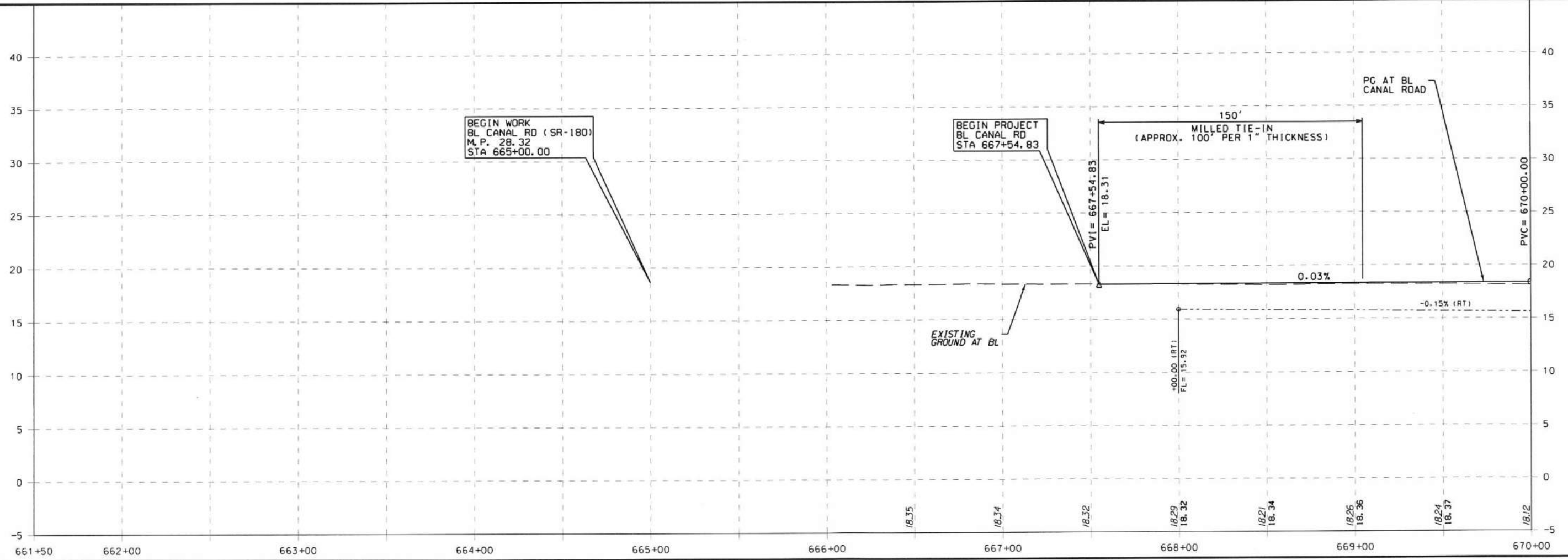


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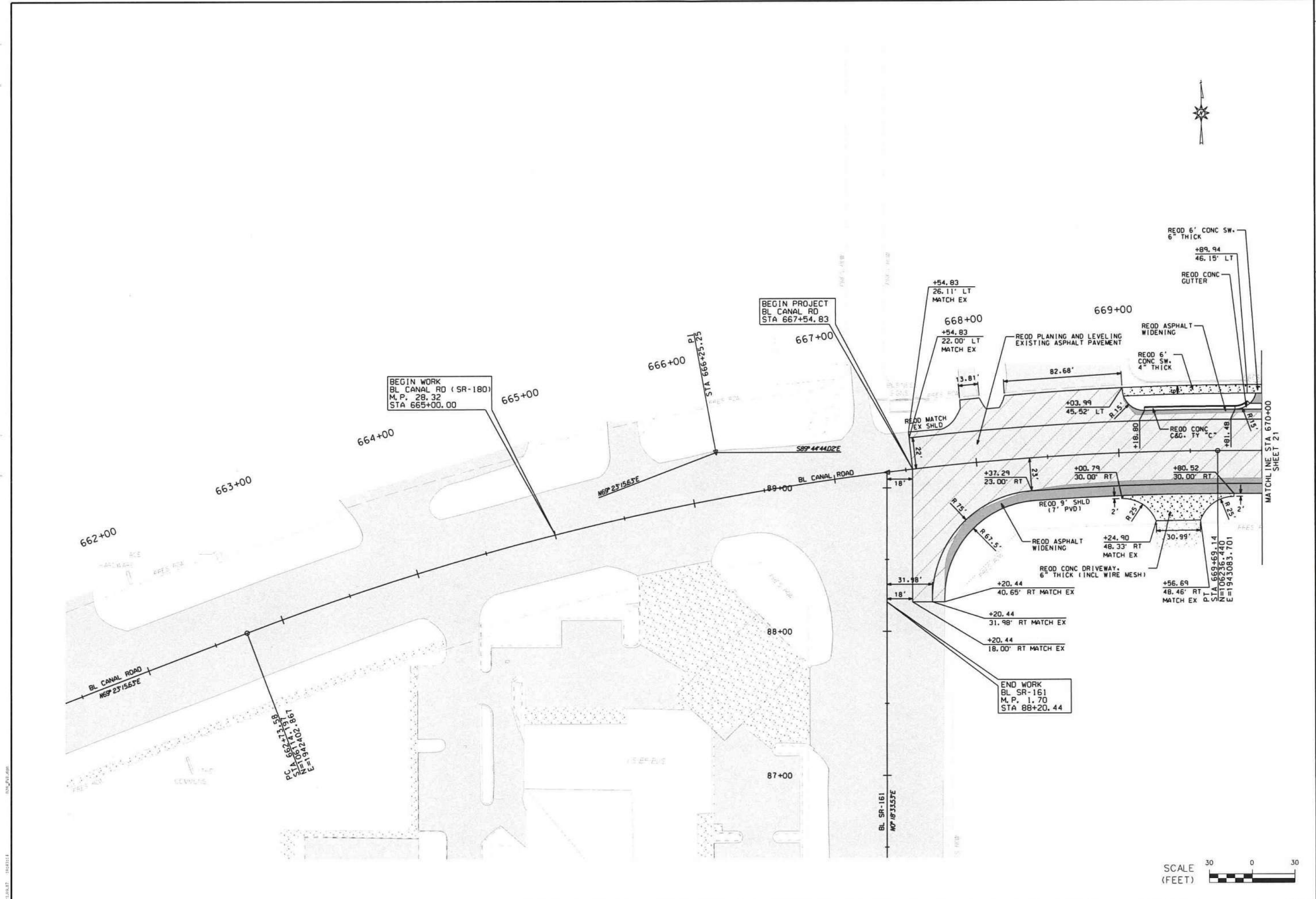
THOMPSON ENGINEERING, INC.
2700 W. STATE ST., SUITE 5500
ORANGE BEACH, ALABAMA 36561
PHONE: (251) 378-6800
FAX: (251) 378-6801
WWW.TEALABAMA.COM

SEE SHEET 4 FOR PLAN VIEW

SCALE (FEET)
30 HORIZ 0 30
5 VERT 0 5



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REVISION NO.	DESCRIPTION	DATE	BY:

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NO.	DATE	BY	DESCRIPTION

DATE:

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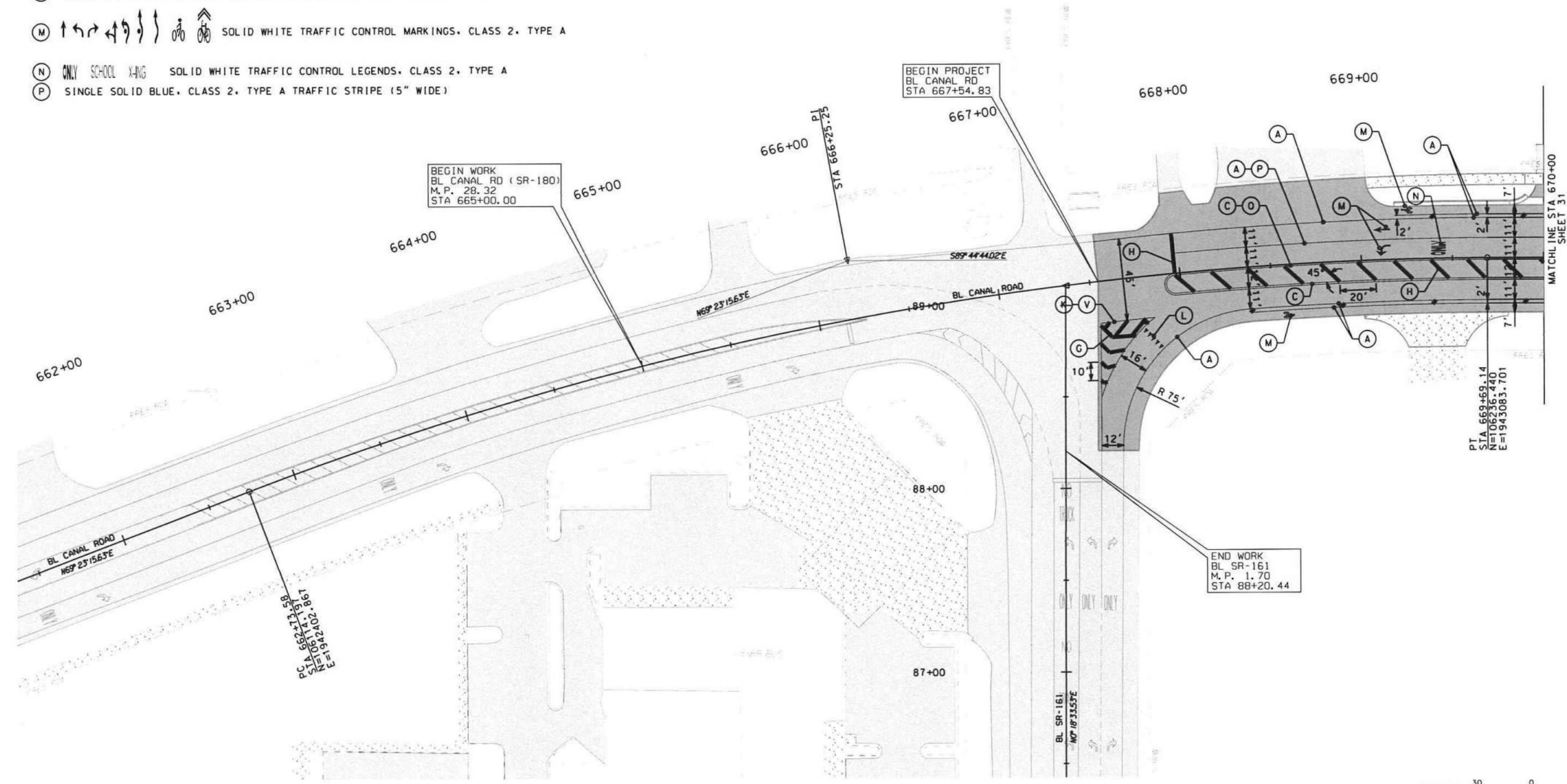
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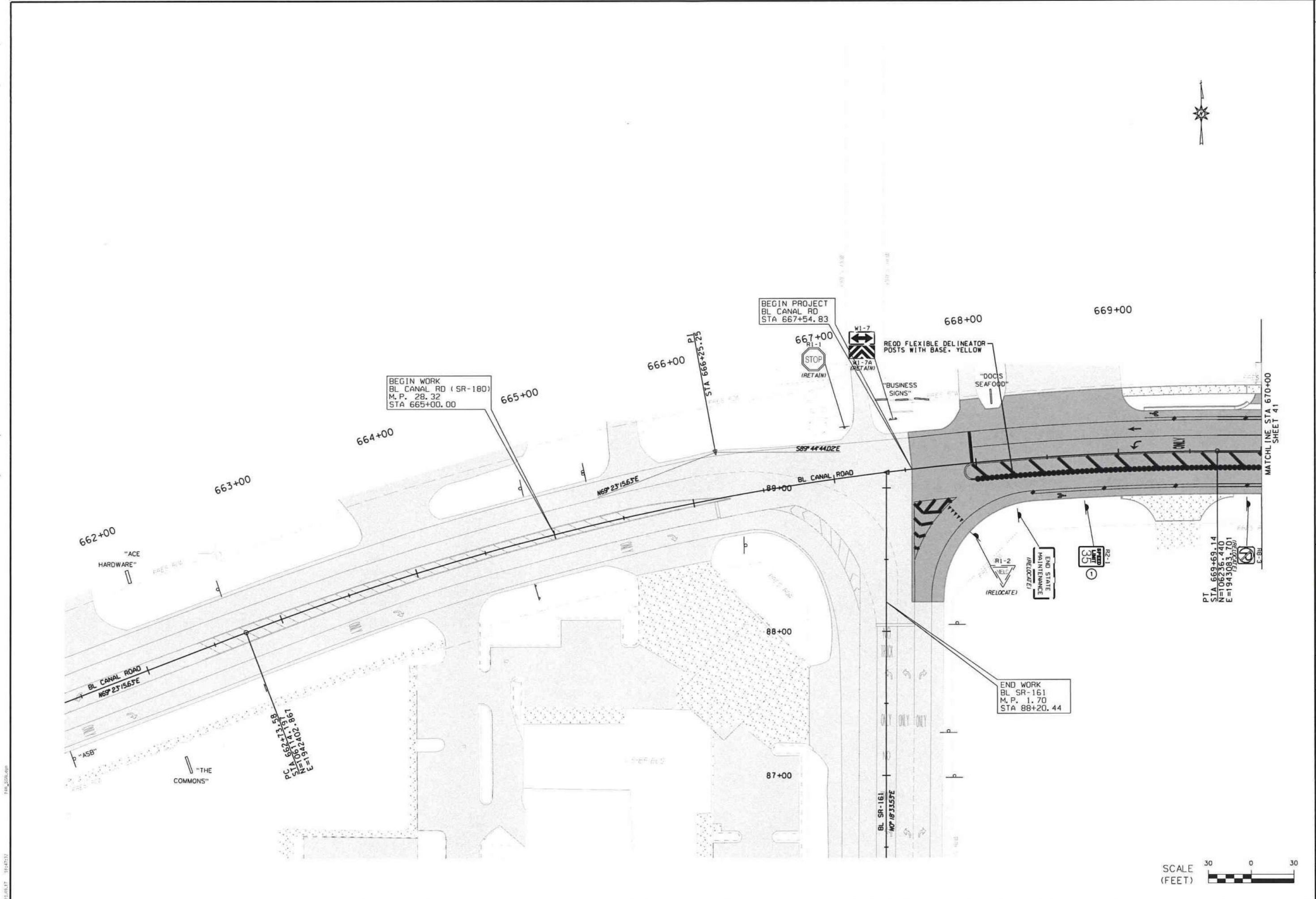
BY:

DESCRIPTION:

- LEGEND**
- (A) SINGLE SOLID WHITE, CLASS 2, TYPE A TRAFFIC STRIPE (5" WIDE)
 - (B) SINGLE SOLID YELLOW, CLASS 2, TYPE A TRAFFIC STRIPE (5" WIDE)
 - (C) DOUBLE SOLID YELLOW, CLASS 2, TYPE A TRAFFIC STRIPE (5" WIDE)
 - (D) BROKEN WHITE, CLASS 2, TYPE A TRAFFIC STRIPE (5" WIDE)
 - (E) DOTTED WHITE, CLASS 2, TYPE A TRAFFIC STRIPE (5" WIDE)
 - (F) BROKEN YELLOW, CLASS 2, TYPE A TRAFFIC STRIPE (5" WIDE)
 - (G) SOLID WHITE TRAFFIC CONTROL MARKINGS, CLASS 2, TYPE A (2' WIDE)
 - (H) SOLID YELLOW TRAFFIC CONTROL MARKINGS, CLASS 2, TYPE A (2' WIDE)
 - (I) SOLID WHITE TRAFFIC CONTROL MARKINGS, CLASS 2, TYPE A (12" WIDE)
 - (J) SOLID WHITE TRAFFIC CONTROL MARKINGS, CLASS 2, TYPE A (6" WIDE)
 - (K) SOLID WHITE TRAFFIC CONTROL MARKINGS, CLASS 2, TYPE A (10" WIDE)
 - (L) SOLID WHITE TRAFFIC CONTROL MARKINGS, CLASS 2, TYPE A (YIELD LINE)
 - (M) SOLID WHITE TRAFFIC CONTROL MARKINGS, CLASS 2, TYPE A
 - (N) ONLY SCHOOL X-MG SOLID WHITE TRAFFIC CONTROL LEGENDS, CLASS 2, TYPE A
 - (P) SINGLE SOLID BLUE, CLASS 2, TYPE A TRAFFIC STRIPE (5" WIDE)
 - (Q) PAVEMENT MARKER, TYPE 2C, CLASS AH @ 20' D.C.
 - (O) PAVEMENT MARKER, TYPE 2D, CLASS AH @ 40' D.C.
 - (R) PAVEMENT MARKER, TYPE 2C, CLASS AH @ 80' D.C.
 - (S) PAVEMENT MARKER, TYPE 2E, CLASS AH @ 3' D.C.
 - (T) PAVEMENT MARKER, TYPE 2E, CLASS AH @ 6' D.C.
 - (V) PAVEMENT MARKER, TYPE 2C, CLASS AH @ 3' D.C.
 - (W) PAVEMENT MARKER, TYPE 1B, CLASS AH @ 3' D.C.



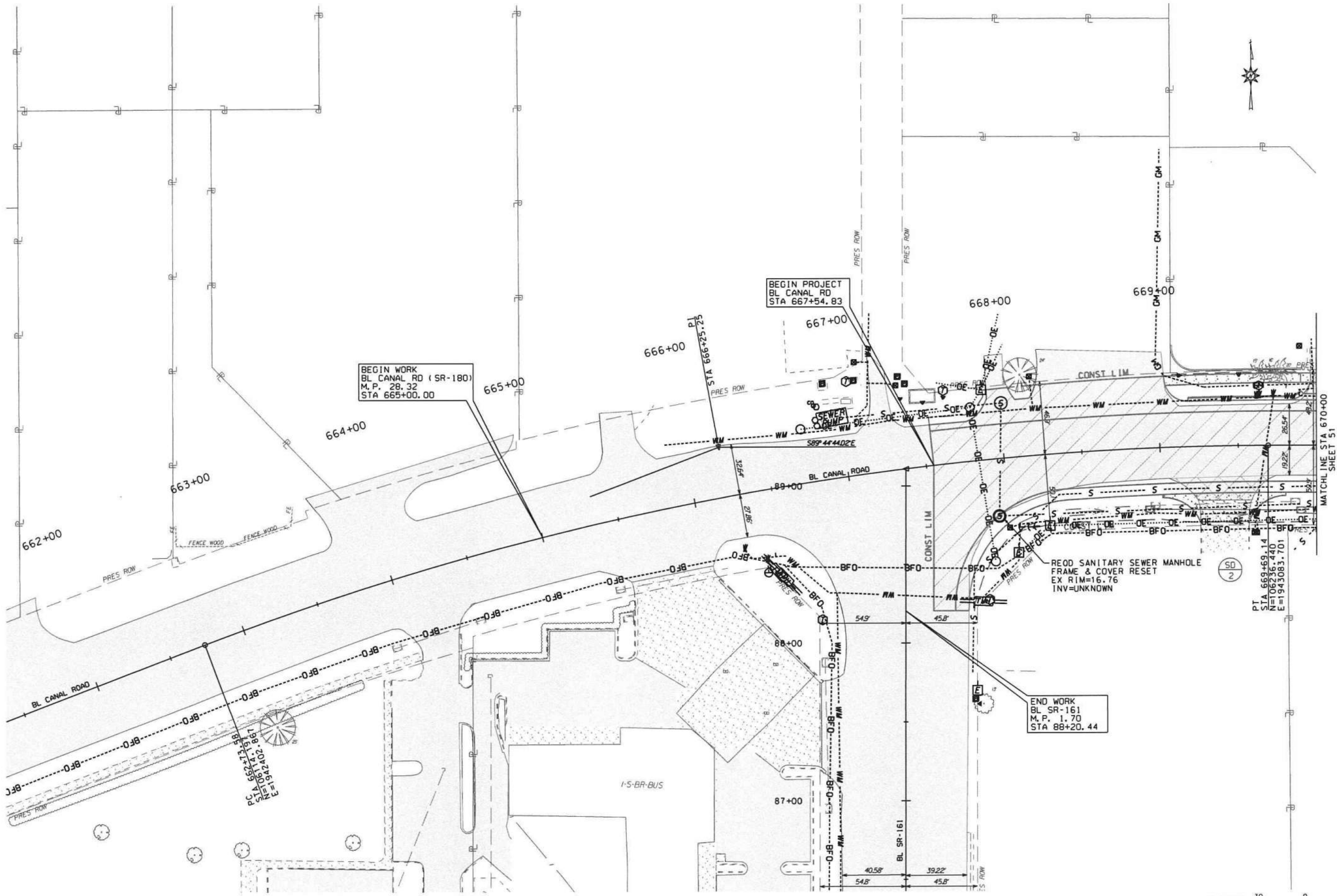
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SHEET NO. 40	
CANAL ROAD IMPROVEMENTS FROM SR-161 TO WILSON BOULEVARD	
SIGNING LAYOUT SHEET	
DATE: SEPT 2021	JOB NO.: 20-1101-0085
APPROVED BY:	THOMPSON ENGINEERING, INC. 400 WILSON BOULEVARD, SUITE 100, ORANGE BEACH, ALABAMA 36561
CITY OF ORANGE BEACH, ALABAMA	ORANGE BEACH, ALABAMA
PREPARED BY:	THOMPSON ENGINEERING, INC.
CHECKED BY:	ORANGE BEACH, ALABAMA 36561
DRAWN BY:	SCALE: HORIZ 1"=30'
DATE:	DATE:
DATE:	DATE:
DATE:	DATE:
DATE:	DATE:

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15-10817 15-10817 15-10817



SHEET NO. : 50

CANAL ROAD IMPROVEMENTS
FROM SR-161 TO WILSON BOULEVARD
UTILITY PLAN SHEET

CITY OF ORANGE BEACH
ORANGE BEACH, ALABAMA

THOMPSON ENGINEERING, INC.
ORANGE BEACH, ALABAMA 36561
12311 378-6190

PREPARED BY: thompson
DRAWN BY: ...
CHECKED BY: ...
APPROVED BY: ...

DATE: SEPT 2021
JOB NO.: 20-1101-0085
REVISION NO.:

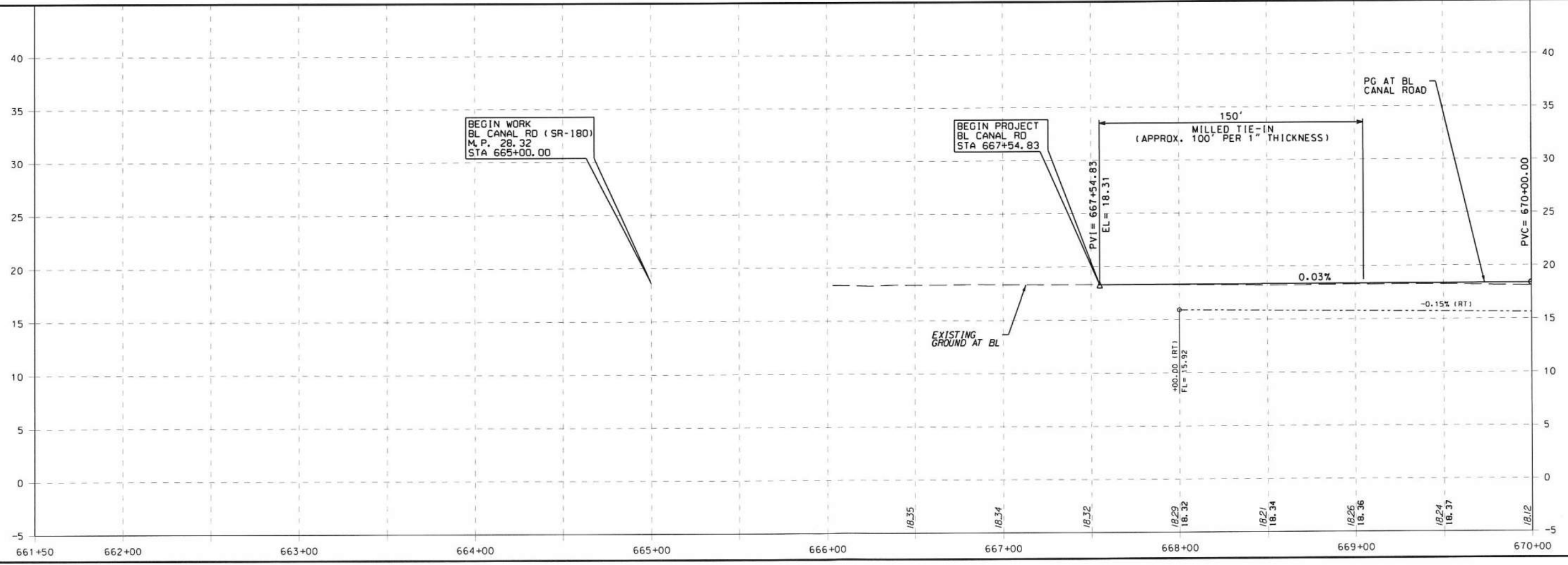
SCALE: HORIZ 1" = 30'



REVISION NO.	DESCRIPTION	DATE	BY:

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SEE SHEET 50 FOR PLAN VIEW



SHEET NO. : 50-A	
CITY OF ORANGE BEACH ORANGE BEACH, ALABAMA	
CANAL ROAD IMPROVEMENTS FROM SR-161 TO WILSON BOULEVARD	
UTILITY PROFILE SHEET	
THOMPSON ENGINEERING, INC. 4751 WILSON STREET, SUITE 500 ORANGE BEACH, ALABAMA 36561 PHONE: (251) 378-6100	THOMPSON
PREPARED BY: ..	CHECKED BY: ..
APPROVED BY: ..	DATE: SEPT 2021
SCALE: HORIZ 1"=30'	VERT 1"=5'
JOB NO. : 20-1101-0085	REVISION NO. : ..

REVISION NO.	DESCRIPTION	DATE	BY:

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SEQUENCE OF CONSTRUCTION

NOTE: ANY WORK CAN BE PERFORMED CONCURRENTLY WITH APPROVAL OF THE ENGINEER, AS LONG AS IT DOES NOT CONFLICT WITH ANOTHER SEQUENCED ITEM OF WORK.

SEQUENCE OF CONSTRUCTION

PHASE I

- INSTALL ADVANCE WARNING SIGNS AND APPLICABLE TRAFFIC CONTROL DEVICES.

PHASE II

- UTILIZING FLAGGERS AND TEMPORARY LANE CLOSURES, PERFORM THE REQUIRED PROFILE GRADE CORRECTIONS ON CANAL RD BETWEEN STA 670+00.00 AND STA 686+00.00 UTILIZING PLANING AND LEVELING.
- PLACE FILL, TOPSOIL AND TEMPORARY SEEDING AND MULCHING ALONG SHOULDERS IN AREAS OF LEVELING TO REMOVE DROP-OFFS CREATED BY THE PROFILE GRADE CORRECTIONS.
- INSTALL TEMPORARY TRAFFIC STRIPE, TEMPORARY TRAFFIC CONTROL MARKINGS AND TEMPORARY RAISED PAVEMENT MARKERS TO MATCH EXISTING CONDITIONS.

PHASE III-A

- INSTALL AND MAINTAIN TEMPORARY TRAFFIC CONTROL MEASURES AND EROSION CONTROL BMPs.
- REMOVE EXISTING AND TEMPORARY TRAFFIC STRIPE BETWEEN STA 670+38.50 AND STA 691+00.00 AND INSTALL TEMPORARY TRAFFIC STRIPE AND TEMPORARY RAISED PAVEMENT MARKERS TO SHIFT TRAFFIC THROUGH THE WORK ZONE. KEEP EXISTING PEDESTRIAN CROSSWALK ON CANAL RD AT CALLAWAY DR OPEN TO ALLOW FOR PEDESTRIAN AND BICYCLE TRAFFIC DURING CONSTRUCTION, WITH TEMPORARY CLOSURES ALLOWED AS APPROVED BY THE ENGINEER OR CITY.
- INSTALL THE STORM SEWER DRAINAGE SYSTEM FROM CANAL RD TO THE SOUTH OUTFALL AT STA 679+45.00 AND REQUIRED RIPRAP APRON AT THE OUTFALL.
- INSTALL THE REQUIRED CROSS DRAINS ON CANAL RD AT STA 671+75.00, STA 676+77.35, STA 679+45.00, STA 682+84.63, STA 684+20.94 AND INSTALL THE ATTACHED STORM SEWER DRAINAGE SYSTEMS NEEDED TO MAINTAIN ADEQUATE DRAINAGE THROUGH OUTFALLS DURING CONSTRUCTION. REMOVE IN-PLACE CROSS DRAINS ON CANAL RD AT STA 671+73.75 AND STA 683+06.00. PERFORM REQUIRED PATCHING OF ROAD AT TRENCH CUTS NEEDED TO INSTALL NEW CROSS DRAINS AND REMOVE EXISTING CROSS DRAINS.
- PERFORM THE REQUIRED GRADING, DRAINAGE, BASE AND PAVING OPERATIONS THROUGH THE UPPER BINDER LAYER FOR EB CANAL RD WIDENING, SIDE ROADS AND DRIVEWAYS ON THE SOUTH SIDE BETWEEN SR-161 AND STA 688+50.00. INSTALL THE REQUIRED SIDEWALK AROUND THE SOUTH PORTION OF THE ROUNDABOUT.
- PERFORM THE REQUIRED SEWER MANHOLE MODIFICATIONS.
- PERFORM THE REQUIRED GRADING, DRAINAGE, BASE AND PAVING OPERATIONS FOR THE REQUIRED TRAIL CONNECTION BETWEEN CALLAWAY DR AND CANAL RD AND CONNECT TO THE REQUIRED SIDEWALK AROUND THE SOUTH PORTION OF THE ROUNDABOUT.

PHASE III-B

- INSTALL AND MAINTAIN TEMPORARY TRAFFIC CONTROL MEASURES AND EROSION CONTROL BMPs.
- REMOVE EXISTING AND TEMPORARY TRAFFIC STRIPE BETWEEN STA 670+38.50 AND STA 691+00.00 AND INSTALL TEMPORARY TRAFFIC STRIPE AND TEMPORARY RAISED PAVEMENT MARKERS TO SHIFT TRAFFIC THROUGH THE WORK ZONE.
- INSTALL TEMPORARY CROSSWALK NEAR STA 682+95.00 TO SHIFT PEDESTRIAN AND BICYCLE TRAFFIC TO THE NEW TRAIL CONNECTION BETWEEN CALLAWAY DR AND CANAL RD.
- CLOSE THE EXISTING CROSSWALK ON CANAL RD AT CALLAWAY DR, THE EXISTING SIDEWALK ON THE NORTH SIDE OF CANAL RD BETWEEN CALLAWAY DR AND STA 682+95.00, AND THE EXISTING SIDEWALK ON CALLAWAY DRIVE TO PEDESTRIAN AND BICYCLE TRAFFIC.
- PERFORM THE REQUIRED GRADING, DRAINAGE, BASE AND PAVING OPERATIONS THROUGH THE UPPER BINDER LAYER FOR WB CANAL RD WIDENING, SIDE ROADS AND DRIVEWAYS ON THE NORTH SIDE BETWEEN SR-161 AND STA 688+50.00.
- PERFORM THE REQUIRED GRADING, DRAINAGE, BASE AND PAVING OPERATIONS FOR THE NORTH ACCESS AND PARKING LOT IMPROVEMENTS AT THE LIBRARY AND SENIOR CENTER, KEEP THE EXISTING DRIVEWAY ON CANAL RD TO THE LIBRARY AND SENIOR CENTER OPEN UNTIL THE NORTH ACCESS DRIVE AND PARKING LOT IMPROVEMENTS ARE COMPLETE.
- OPEN NORTH ACCESS TO TRAFFIC AND PERMANENTLY CLOSE AND REMOVE THE EXISTING DRIVEWAY NEAR STA 679+80.00 ON THE NORTH SIDE TO TRAFFIC.
- REMOVE THE REMAINING PORTIONS OF EXISTING SIDEWALK AND REPLACE WITH THE REQUIRED SIDEWALK AND TRAIL CONNECTIONS BETWEEN SR-161 AND STA 687+00.00, WITH TEMPORARY CLOSURES ALLOWED AS APPROVED BY THE ENGINEER OR CITY. OPEN NEW SIDEWALK AND TRAIL CONNECTIONS TO PEDESTRIAN AND BICYCLE TRAFFIC. RE-OPEN CROSSWALK ON CANAL RD AT CALLAWAY DR.

PHASE IV

- INSTALL AND MAINTAIN TEMPORARY TRAFFIC CONTROL MEASURES AND EROSION CONTROL BMPs.
- REMOVE EXISTING AND TEMPORARY TRAFFIC STRIPE BETWEEN STA 670+38.50 AND STA 691+00.00 AND INSTALL TEMPORARY TRAFFIC STRIPE AND TEMPORARY RAISED PAVEMENT MARKERS TO SHIFT TRAFFIC THROUGH THE WORK ZONE. KEEP PEDESTRIAN CROSSWALKS ON CANAL RD AT CALLAWAY DR AND STA 682+95.00 OPEN TO ALLOW FOR PEDESTRIAN AND BICYCLE TRAFFIC DURING CONSTRUCTION, WITH TEMPORARY CLOSURES ALLOWED AS APPROVED BY THE ENGINEER OR CITY.
- SAWCUT AND REMOVE THE EXISTING PAVEMENT AND INSTALL REQUIRED RAISED MEDIANS AND ROUNDABOUT CENTRAL ISLAND.
- PERFORM ANY REMAINING REQUIRED PLANING AND PLACE THE WEARING SURFACE ON CANAL RD, SIDE STREETS AND DRIVEWAYS BETWEEN SR-161 AND STA 686+00.00.
- INSTALL THE TEMPORARY TRAFFIC STRIPE AND MARKINGS TO MATCH THE FINAL STRIPE LAYOUT AS SHOWN ON THE SIGNING AND STRIPING SHEETS BETWEEN SR-161 AND STA 686+00.00. OPEN ALL NEW CROSSWALKS ON CANAL RD TO PEDESTRIAN AND BICYCLE TRAFFIC.
- INSTALL THE REQUIRED SIGNS ON CANAL RD AS SHOWN IN THE SIGNING AND STRIPING SHEETS BETWEEN SR-161 AND STA 686+00.00.

SEQUENCE OF CONSTRUCTION (CONTINUED)

PHASE V-A

- INSTALL ADVANCE WARNING SIGNS AND APPLICABLE TRAFFIC CONTROL DEVICES.
- REMOVE EXISTING AND TEMPORARY TRAFFIC STRIPE BETWEEN STA 686+00.00 AND STA 735+50.00 AND INSTALL TEMPORARY TRAFFIC STRIPE AND TEMPORARY RAISED PAVEMENT MARKERS TO SHIFT TRAFFIC THROUGH THE WORK ZONE.
- INSTALL THE REQUIRED CROSS DRAINS ON CANAL RD AT STA 694+30.00 AND STA 705+61.45 AND MAINTAIN ADEQUATE DRAINAGE THROUGH OUTFALLS DURING CONSTRUCTION. REMOVE IN-PLACE CROSS DRAINS ON CANAL RD AT STA 693+88.58 AND STA 705+61.45. PERFORM REQUIRED PATCHING OF ROAD AT TRENCH CUTS NEEDED TO INSTALL NEW CROSS DRAINS AND REMOVE EXISTING CROSS DRAINS.
- PERFORM THE REQUIRED GRADING, DRAINAGE, BASE AND PAVING OPERATIONS THROUGH THE UPPER BINDER LAYER FOR EB CANAL RD WIDENING, SIDE ROADS AND DRIVEWAYS ON THE SOUTH SIDE BETWEEN STA 688+50.00 AND WILSON BLVD.

PHASE V-B

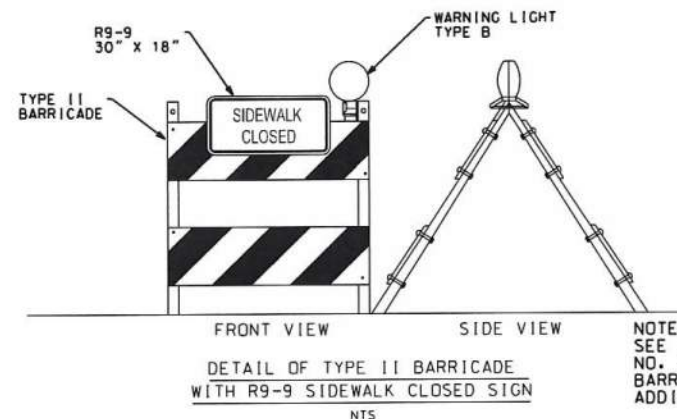
- INSTALL ADVANCE WARNING SIGNS AND APPLICABLE TRAFFIC CONTROL DEVICES.
- REMOVE EXISTING AND TEMPORARY TRAFFIC STRIPE BETWEEN STA 686+00.00 AND STA 735+50.00 AND INSTALL TEMPORARY TRAFFIC STRIPE AND TEMPORARY RAISED PAVEMENT MARKERS TO SHIFT TRAFFIC THROUGH THE WORK ZONE. KEEP EXISTING PEDESTRIAN CROSSWALK ON CANAL RD AT CALLAWAY DR OPEN TO ALLOW FOR PEDESTRIAN AND BICYCLE TRAFFIC DURING CONSTRUCTION, WITH TEMPORARY CLOSURES ALLOWED AS APPROVED BY THE ENGINEER OR CITY.
- SAWCUT AND REMOVE PORTIONS OF EXISTING ASPHALT PAVED SHOULDERS ON THE NORTH SIDE OF CANAL RD BETWEEN STA 691+26.07 AND STA 727+06.87 TO MATCH THE FINAL EDGE OF PAVEMENT AS SHOWN ON THE PLAN SHEETS.
- CLOSE THE EXISTING SIDEWALK ON THE NORTH SIDE OF CANAL RD BETWEEN STA 687+50.00 AND WILSON BLVD TO PEDESTRIAN AND BICYCLE TRAFFIC.
- PERFORM THE REQUIRED GRADING, DRAINAGE, BASE AND PAVING OPERATIONS THROUGH THE UPPER BINDER LAYER FOR SHOULDERS, SIDE ROADS AND DRIVEWAYS ON THE NORTH SIDE BETWEEN STA 688+50.00 AND WILSON BLVD.
- REMOVE THE REMAINING PORTIONS OF EXISTING SIDEWALK AND REPLACE WITH THE REQUIRED TRAIL BETWEEN 687+00.00 AND WILSON BLVD.
- INSTALL TEMPORARY TRAFFIC STRIPE AND MARKINGS TO MATCH FINAL STRIPE LAYOUT AS SHOWN ON THE SIGNING AND STRIPING SHEETS FOR THE NEW TRAIL AND CROSSWALKS ON THE NORTH SIDE OF CANAL RD. OPEN NEW TRAIL AND CROSSWALKS TO PEDESTRIAN AND BICYCLE TRAFFIC, WITH TEMPORARY CLOSURES ALLOWED AS APPROVED BY THE ENGINEER OR CITY.

PHASE VI

- PERFORM ANY REMAINING REQUIRED PLANING AND PLACE THE WEARING SURFACE ON CANAL RD, SIDE STREETS AND DRIVEWAYS BETWEEN STA 686+00.00 AND STA 737+50.00.
- INSTALL THE TEMPORARY TRAFFIC STRIPE AND MARKINGS TO MATCH THE FINAL STRIPE LAYOUT AS SHOWN ON THE SIGNING AND STRIPING SHEETS BETWEEN STA 686+00.00 AND STA 737+50.00.
- INSTALL THE REQUIRED SIGNS ON CANAL RD AS SHOWN IN THE SIGNING AND STRIPING SHEETS BETWEEN STA 686+00.00 AND WILSON BLVD.

PHASE VII

- INSTALL THE REQUIRED PERMANENT STRIPING, MARKINGS, LEGENDS, AND RAISED PAVEMENT MARKERS AS SHOWN ON THE SIGNING AND STRIPING SHEETS.
- COMPLETE ALL REMAINING ITEMS OF WORK.
- REMOVE ANY REMAINING TRAFFIC CONTROL SIGNS AND DEVICES AND OPEN ALL LANES TO TRAFFIC.



NOTE:
SEE ALDOT SPECIAL DRAWING
NO. B-107-2 FOR TYPE II
BARRICADE DETAILS AND
ADDITIONAL GENERAL NOTES.

TCP NOTES

700-705
707
709-713
715-716
720
723
725-729
732-737
742
744
747
749
751-752

SHEET NO. : 100	
CANAL ROAD IMPROVEMENTS FROM SR-161 TO WILSON BOULEVARD	TRAFFIC CONTROL PLAN SEQUENCE OF CONSTRUCTION
CITY OF ORANGE BEACH, ALABAMA	THOMPSON ENGINEERING, INC. 12511 378-6100 ORANGE BEACH, ALABAMA 36561
DATE: SEPT 2021	JOB NO.: 20-1101-0085
APPROVED BY:	CHECKED BY:
DRAWN BY:	SCALE:
DATE:	DATE:
DATE:	DATE:
DATE:	DATE:
DATE:	DATE:

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TEMPORARY TRAFFIC CONTROL PLAN SHEET

SHEET NO. 100-A

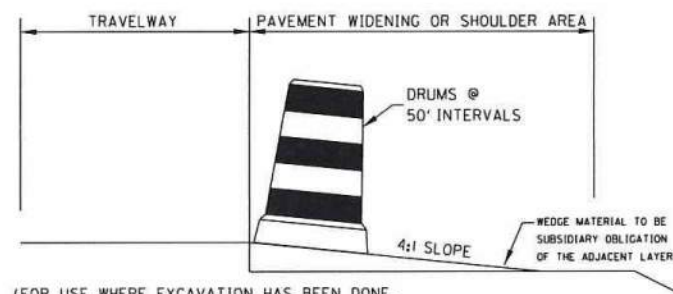
CANAL ROAD IMPROVEMENTS
FROM SR-161 TO WILSON BOULEVARD
TRAFFIC CONTROL PLAN

CITY OF ORANGE BEACH, ALABAMA
THOMPSON ENGINEERING, INC.
A DIVISION OF THE THOMPSON GROUP
ORANGE BEACH, ALABAMA 36561
(251) 378-6190

PREPARED BY: Thompson
DRAWN BY: Thompson
CHECKED BY: Thompson
APPROVED BY: Thompson
DATE: SEPT 2021
JOB NO.: 20-1101-0085
REVISION NO.: --



REVISION NO.	DESCRIPTION	DATE	BY:

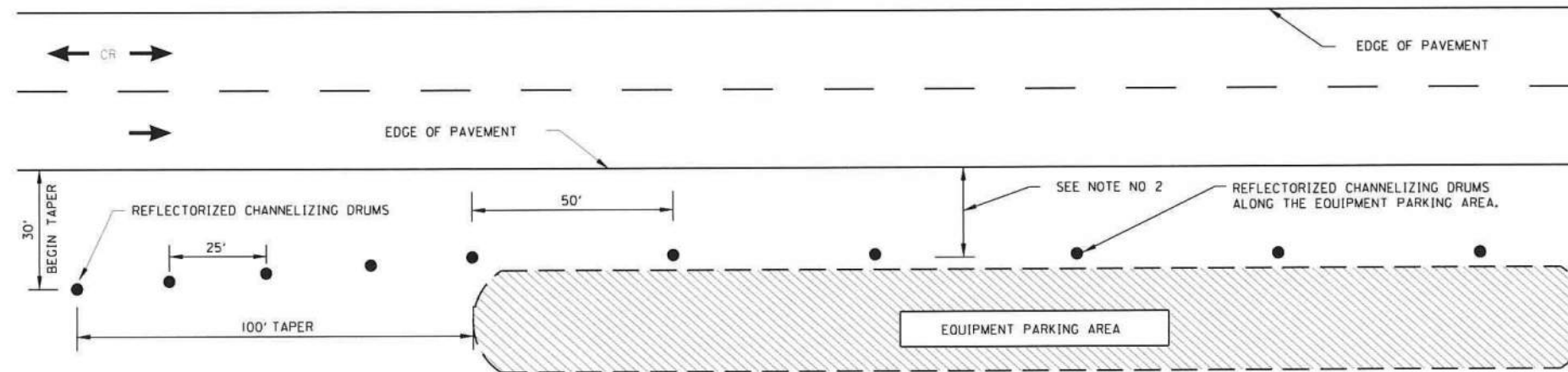


(FOR USE WHERE EXCAVATION HAS BEEN DONE, BUT WIDENING IS NOT COMPLETED BY NIGHTFALL OR WHERE PAVEMENT DROP OFF OF RESURFACING PROJECTS IS 3" OR MORE AT NIGHTFALL)

TYPICAL FOR DROP-OFF AT EDGE OF PAVEMENT

NOTE: THE CONTRACTOR IS TO CONSTRUCT A WEDGE OF UNCLASSIFIED EXCAVATION OR CRUSHED AGGREGATE BASE. THE COST OF PLACING AND REMOVAL SHALL BE A SUBSIDIARY OBLIGATION OF THE ADJACENT LAYER.

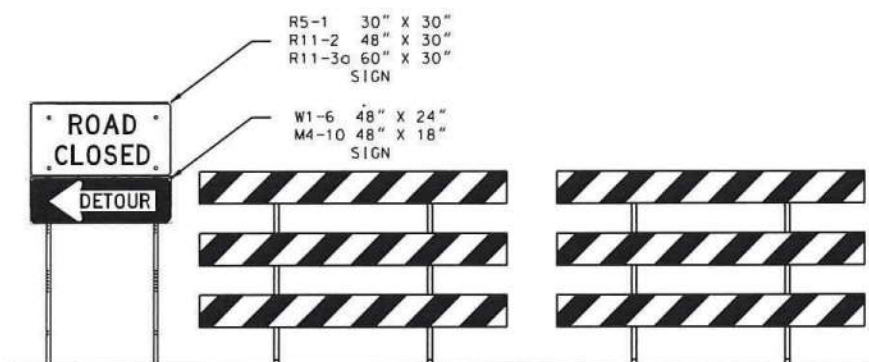
CHANNELIZING DRUMS SHALL BE PLACED AT 50 FT INTERVALS.



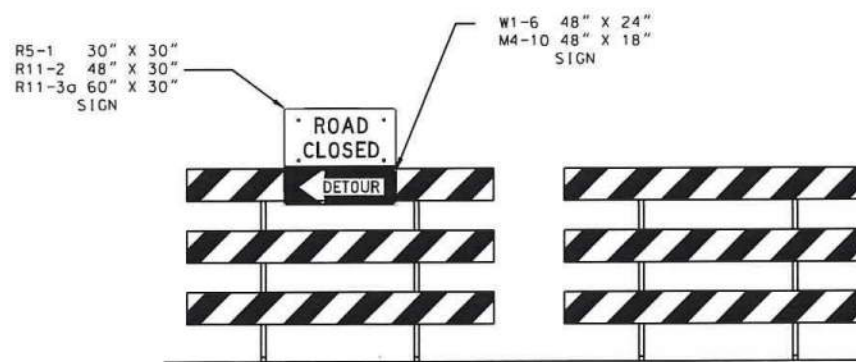
NOTES:

- SEE ALDOT'S GENERAL TRAFFIC CONTROL PLAN NOTE NO. 702.
- DRUMS TO BE AS FAR AS PRACTICAL FROM EDGE OF PAVEMENT, MINIMUM DESIRABLE DISTANCE IS 15 FEET FOR FREEWAY TYPE FACILITIES AND 10 FEET FOR OTHER FACILITIES. FOR UNUSUAL CONDITIONS, SUCH AS SPECIAL EQUIPMENT OR LIMITED AVAILABLE SPACE, DIMENSIONS LESS THAN DESIRABLE SHALL BE AS DIRECTED BY THE ENGINEER.
- ALL DEVICES TO BE FURNISHED BY THE CONTRACTOR WITHOUT COST TO THE ALDOT.

DELINEATING DETAIL FOR EQUIPMENT PARKING OR STORING AREA



DETAILS FOR TYPICAL PLACEMENT OF TYPE III BARRICADES INSIDE OF CLEAR ZONE



DETAILS FOR TYPICAL PLACEMENT OF TYPE III BARRICADES OUTSIDE OF CLEAR ZONE

NOTES

- SLOPE OF STRIPES ON BARRICADES SHALL BE IN ACCORDANCE WITH SECTION 6F.68 OF THE MUTCD AND DRAWING B-107-2.
- IF SIGNS ARE REQUIRED TO BE USED IN CONJUNCTION WITH TYPE III BARRICADES TO BE PLACED INSIDE THE CLEAR ZONE, THEY SHALL BE POST MOUNTED TO THE SIDE OF THE BARRICADES AS SHOWN.
- IF ROAD CLOSED OR DETOUR SIGNS ARE REQUIRED TO BE USED WITH TYPE III BARRICADES TO BE PLACED OUTSIDE THE CLEAR ZONE, THEY SHALL BE PLACED ON THE TOP OF THE BARRICADES NEAREST THE DETOUR.

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ALABAMA DEPARTMENT OF TRANSPORTATION

1409 COLISEUM BOULEVARD
MONTGOMERY, AL 36130-3050

DESIGN BUREAU SPECIAL DRAWING
STANDARD DETAILS FOR
TRAFFIC CONTROL PLANS

DRAWN BY: _____
DATE DRAWN: 07/23/2019

SPECIAL PROJECT DETAIL

INDEX NO.
2001

2021.09.17 11:46:01

TEMPORARY TRAFFIC CONTROL PLAN SHEET

SHEET NO. 100-B

CANAL ROAD IMPROVEMENTS
FROM SR-161 TO WILSON BOULEVARD

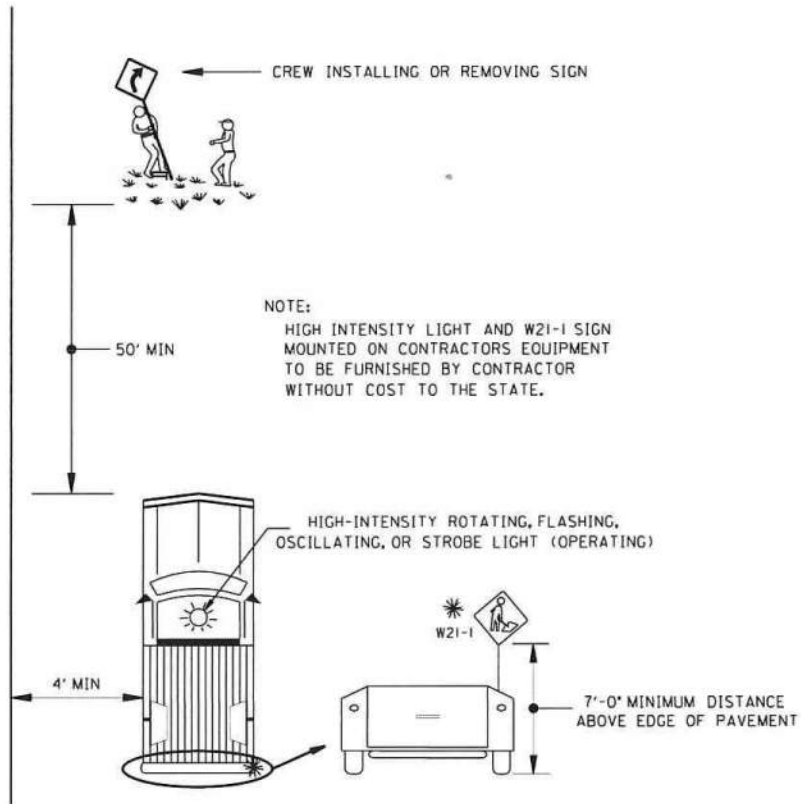
CITY OF ORANGE BEACH, ALABAMA

THOMPSON ENGINEERING, INC.
400 UNIVERSITY AVENUE
ORANGE BEACH, ALABAMA 36561
ORANGE BEACH (251) 378-0190

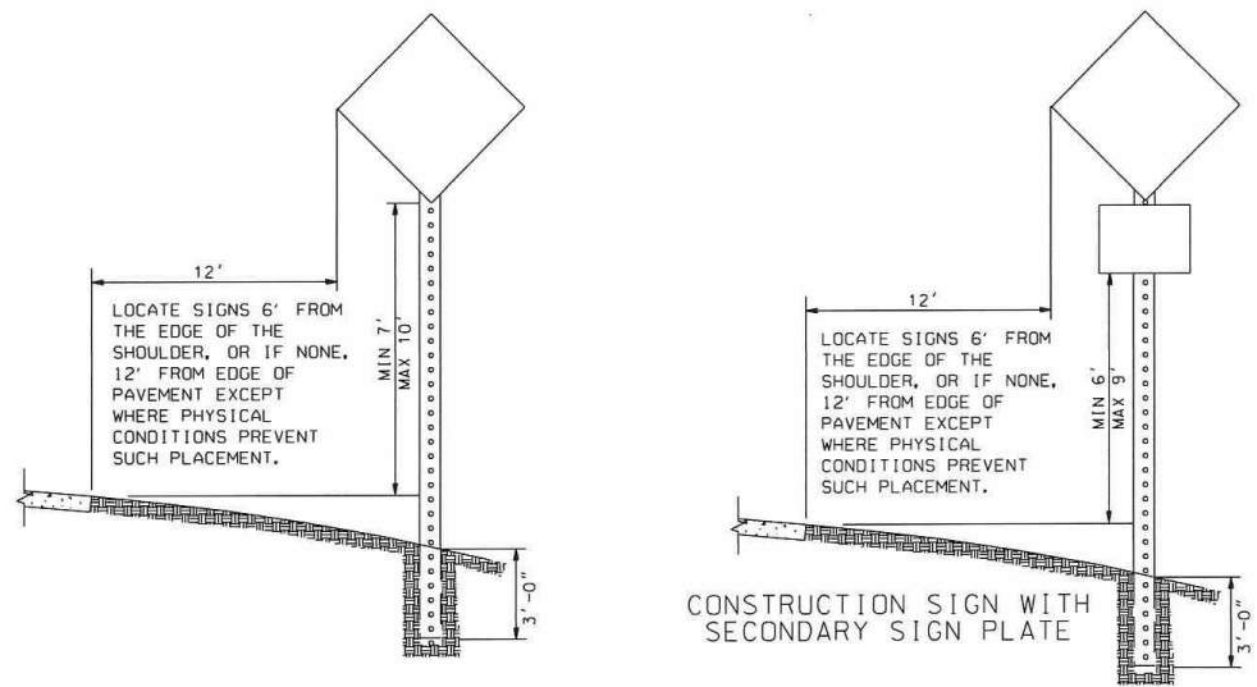


DATE	BY	DESCRIPTION

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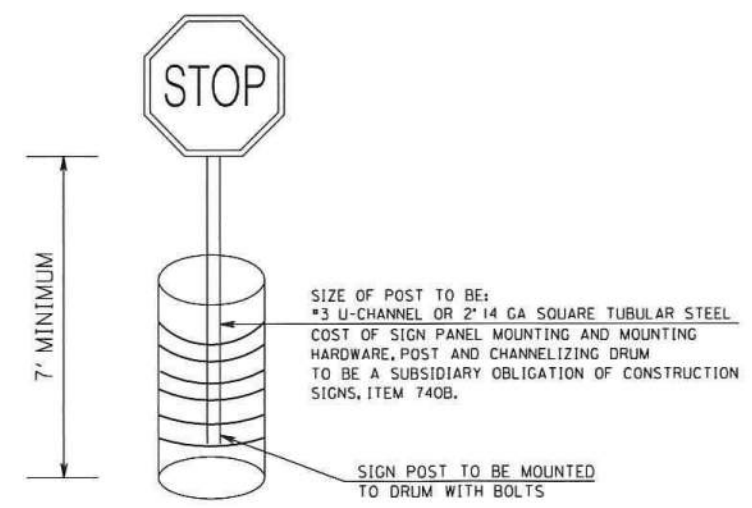


TYPICAL METHOD FOR INSTALLING OR REMOVING CONSTRUCTION SIGNS



NOTE : IF THE CONTRACTOR CHOOSES TO SPLICE THE POSTS FOR THE REQUIRED POST MOUNTED CONSTRUCTION SIGNS, THEY SHALL BE SPLICED AS SHOWN ON DRAWING IHS-710-23.

HEIGHT AND LATERAL LOCATION OF POST MOUNTED CONSTRUCTION SIGNS



DETAIL FOR DRUM MOUNTED CONSTRUCTION SIGNS

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ALABAMA DEPARTMENT OF TRANSPORTATION
1409 COLISEUM BOULEVARD
MONTGOMERY, AL 36130-3050

DESIGN BUREAU SPECIAL DRAWING
STANDARD DETAILS
FOR TRAFFIC CONTROL PLANS

DRAWN BY: _____ DATE DRAWN: 06/12/2019

SPECIAL PROJECT DETAIL

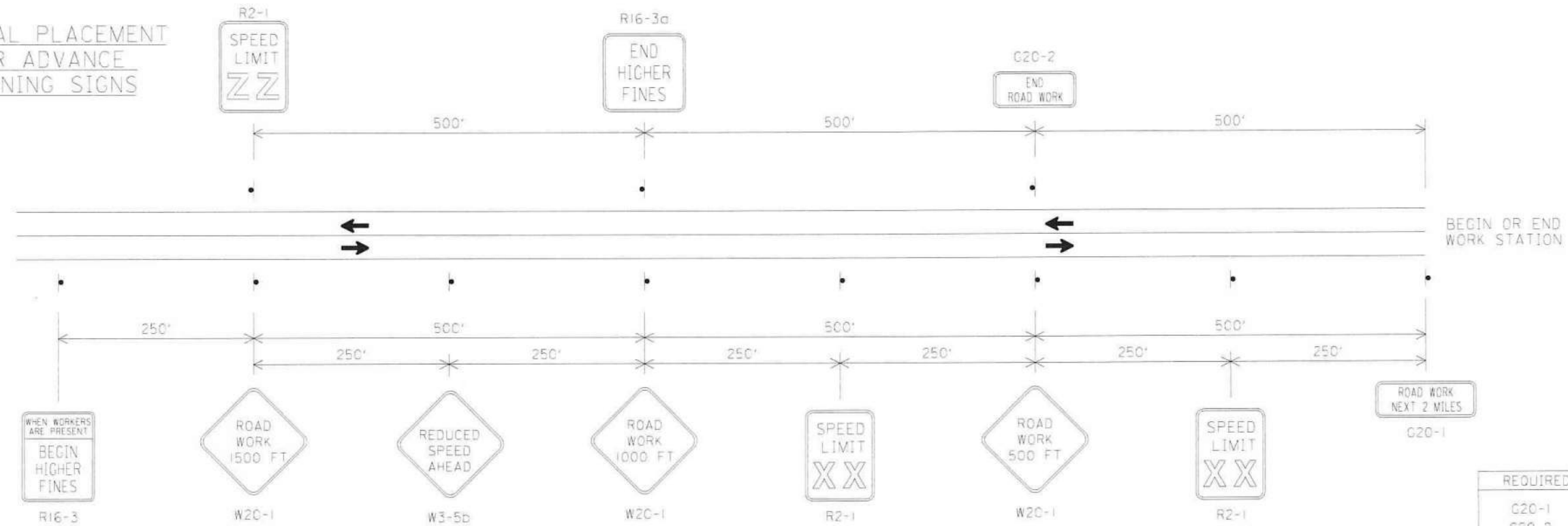
INDEX NO. 2001A

11/21/2019 11:27:59 AM

TEMPORARY TRAFFIC CONTROL PLAN SHEET

SHEET NO. 100-C

TYPICAL PLACEMENT FOR ADVANCE WARNING SIGNS

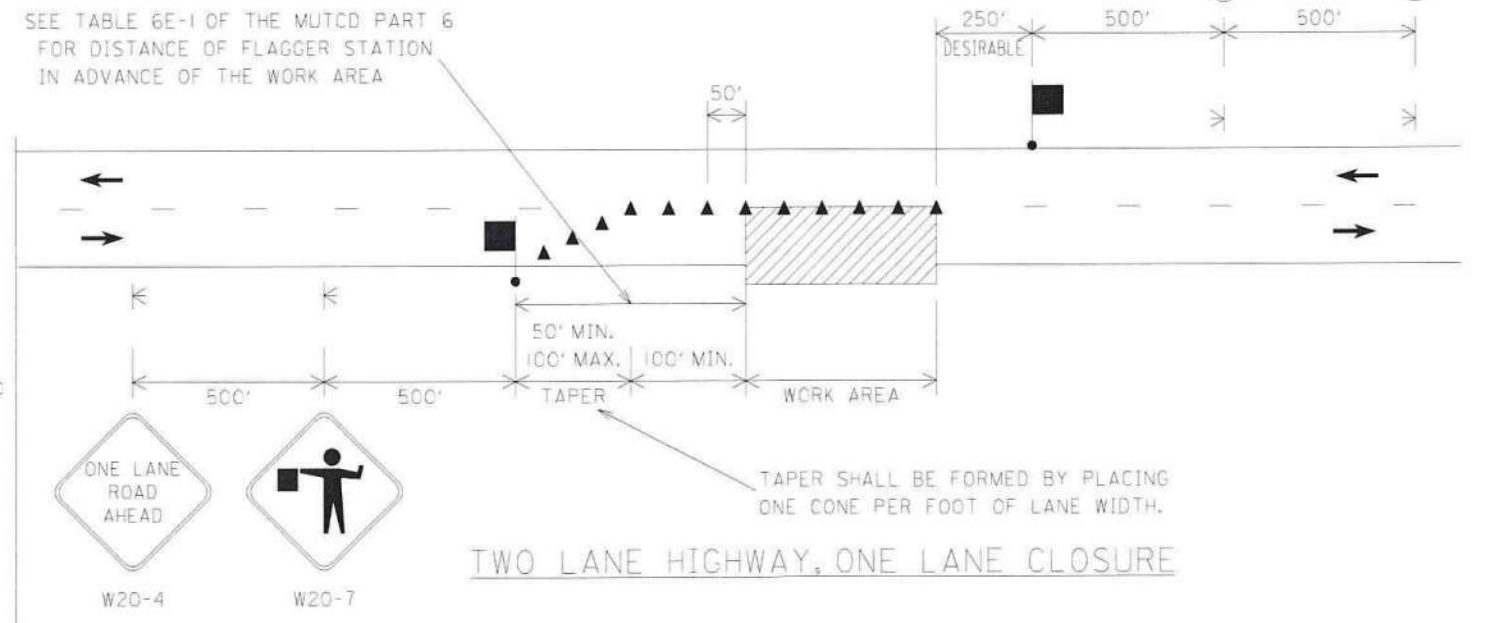
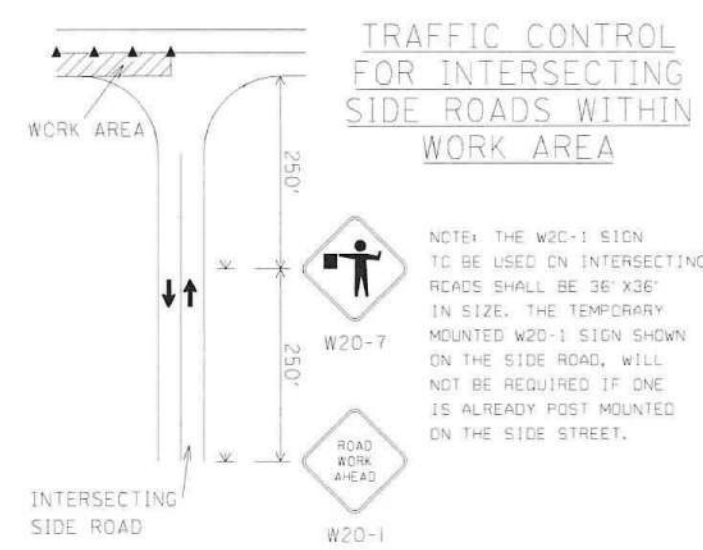


REQUIRED SIGN SIZES	
G20-1	48" X 24"
G20-2	48" X 24"
R2-1	24" X 30"
W3-5b	48" X 48"
R16-3	48" X 60"
R16-3a	48" X 48"
W20-1	48" X 48"
W20-4	48" X 48"
W20-7	48" X 48"

GENERAL NOTES

- ALL ADVANCE WARNING SIGNS REQUIRED AT THE BEGINNING AND END OF PROJECT SHALL BE POST MOUNTED. ALL SIGNS REQUIRED FOR THE LANE CLOSURE SHALL BE TEMPORARY MOUNTED.
- SIGN (XX) SHALL SHOW THE SPEED IN THE WORK ZONE. SIGN (YY) SHALL BE USED IF SPEED REDUCTION REQUIRES TWO SIGNS. SIGN (ZZ) SHALL SHOW THE POSTED SPEED OUTSIDE THE WORK ZONE.

SEE TABLE 6E-1 OF THE MUTCD PART 6 FOR DISTANCE OF FLAGGER STATION IN ADVANCE OF THE WORK AREA



THE SIGN SIZES SHOWN ON THIS SHEET SHALL SUPERCEDE THOSE SHOWN ON THE STANDARD HIGHWAY SIGNS DRAWINGS UNLESS OTHERWISE APPROVED BY THE ENGINEER.

LEGEND

- ⌘ TEMPORARY MOUNTED SIGN
- POST MOUNTED SIGN
- ▲ CONES
- FLAGGER
- ▨ WORK AREA

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ALABAMA DEPARTMENT OF TRANSPORTATION
1409 COLISEUM BOULEVARD
MONTGOMERY, AL 36130-3050

DESIGN BUREAU SPECIAL DRAWING
DETAILS FOR TRAFFIC CONTROL
FOR TWO LANE HIGHWAYS

DRAWN BY: _____ DATE DRAWN: 3/24/2021 INDEX NO. 2002
SPECIAL PROJECT DETAIL

CITY OF ORANGE BEACH, ALABAMA
 ORANGE BEACH, ALABAMA
 PREPARED BY: Thompson Engineering, Inc.
 4735 W. STATE ST., SUITE 100
 ORANGE BEACH, ALABAMA 36561
 (251) 378-6190
 DRAWN BY: Thompson
 CHECKED BY: Thompson
 APPROVED BY: Thompson
 JOB NO.: 20-1101-0085
 DATE: SEPT 2021
 REVISION NO.: --

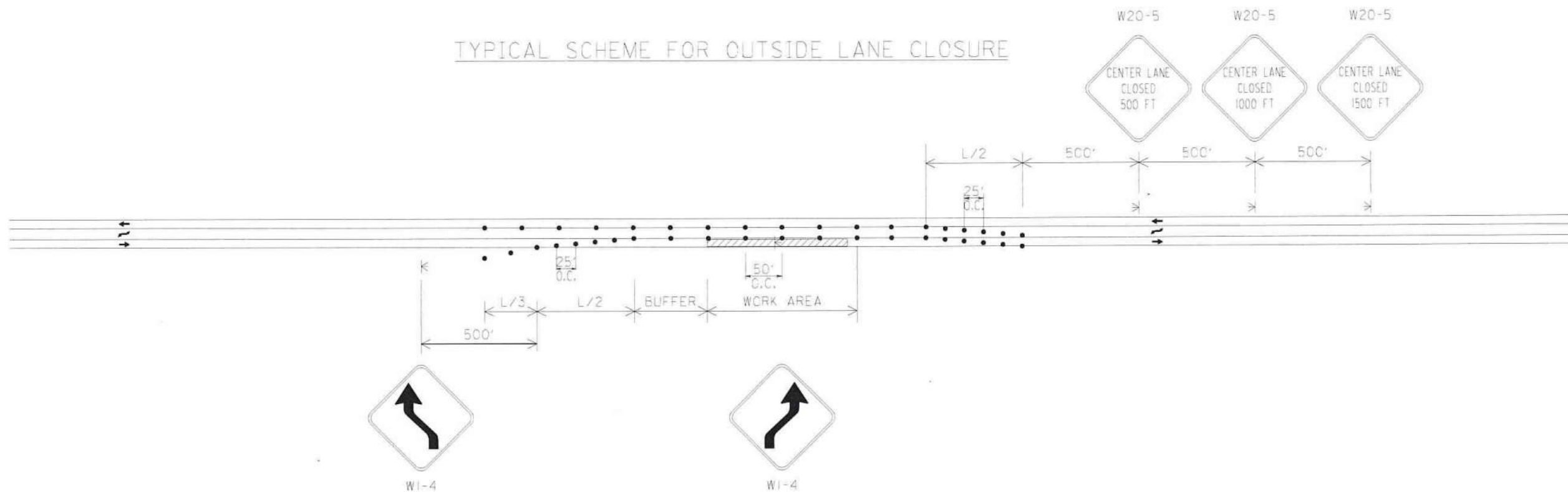
DATE	BY	DESCRIPTION

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TEMPORARY TRAFFIC CONTROL PLAN SHEET

SHEET NO. 100-D

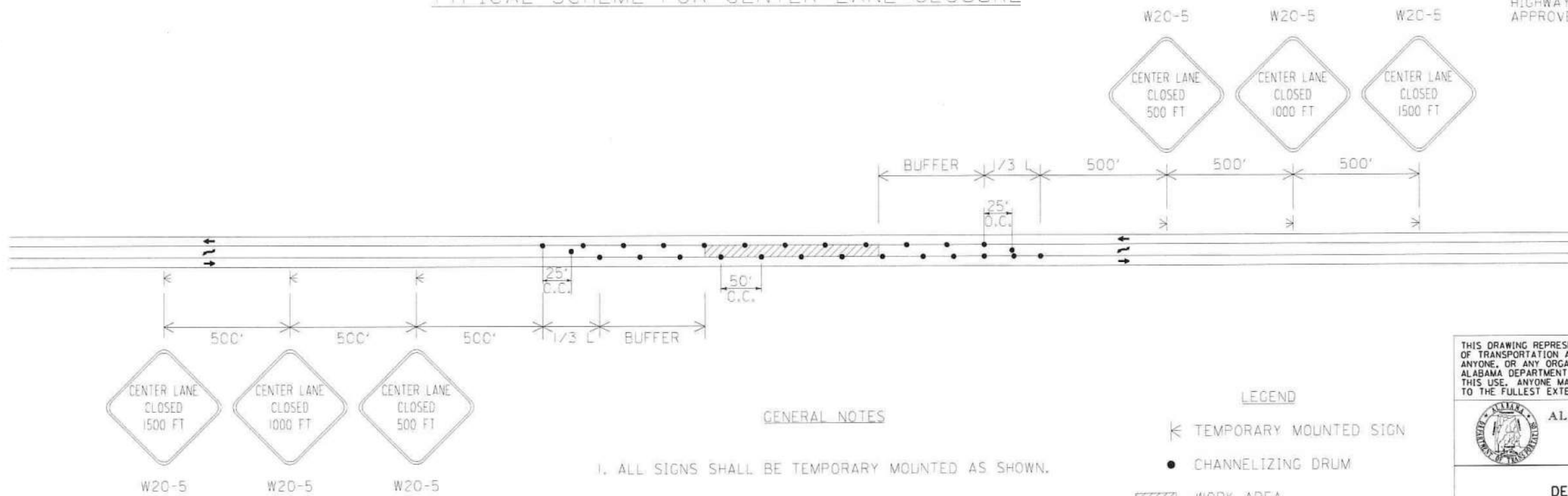
TYPICAL SCHEME FOR OUTSIDE LANE CLOSURE



REQUIRED SIGN SIZES	
W1-4	48" X 48"
W20-5	48" X 48"

THE SIGN SIZES SHOWN ON THIS SHEET SHALL SUPERCEDE THOSE SHOWN ON THE STANDARD HIGHWAY SIGNS DRAWINGS UNLESS OTHERWISE APPROVED BY THE ENGINEER.

TYPICAL SCHEME FOR CENTER LANE CLOSURE



GENERAL NOTES

1. ALL SIGNS SHALL BE TEMPORARY MOUNTED AS SHOWN.

LEGEND

- ⊃ TEMPORARY MOUNTED SIGN
- CHANNELIZING DRUM
- ▨ WORK AREA

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ALABAMA DEPARTMENT OF TRANSPORTATION

1409 COLISEUM BOULEVARD
MONTGOMERY, AL 36130-3050

DESIGN BUREAU SPECIAL DRAWING
DETAILS FOR TRAFFIC CONTROL FOR
3-LANE HIGHWAY LANE CLOSURES

DRAWN BY: _____
DATE DRAWN: 06/12/2019

SPECIAL PROJECT DETAIL

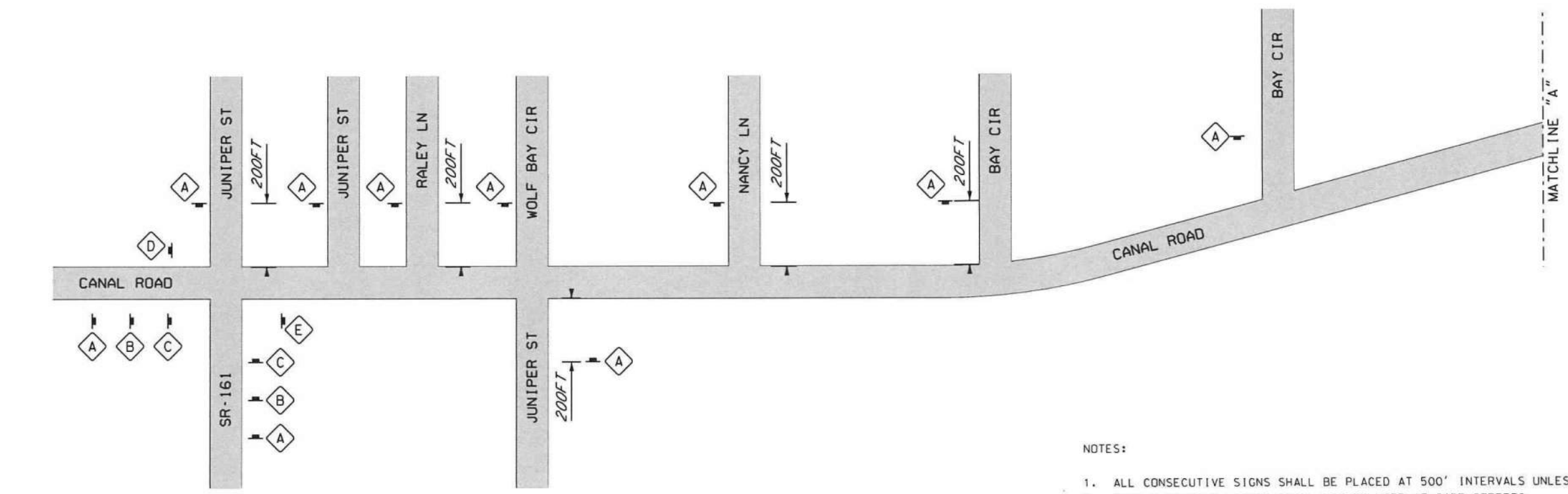
INDEX NO.
2021

CITY OF ORANGE BEACH, ALABAMA
ORANGE BEACH, ALABAMA
THOMPSON ENGINEERING, INC.
4000 WILSON BOULEVARD
ORANGE BEACH, ALABAMA 36561
thompson
DRAWN BY: _____
CHECKED BY: _____
APPROVED BY: _____
DATE: SEPT 2021
JOB NO.: 20-1101-0085
REVISION NO.: ..

DATE	BY	DESCRIPTION

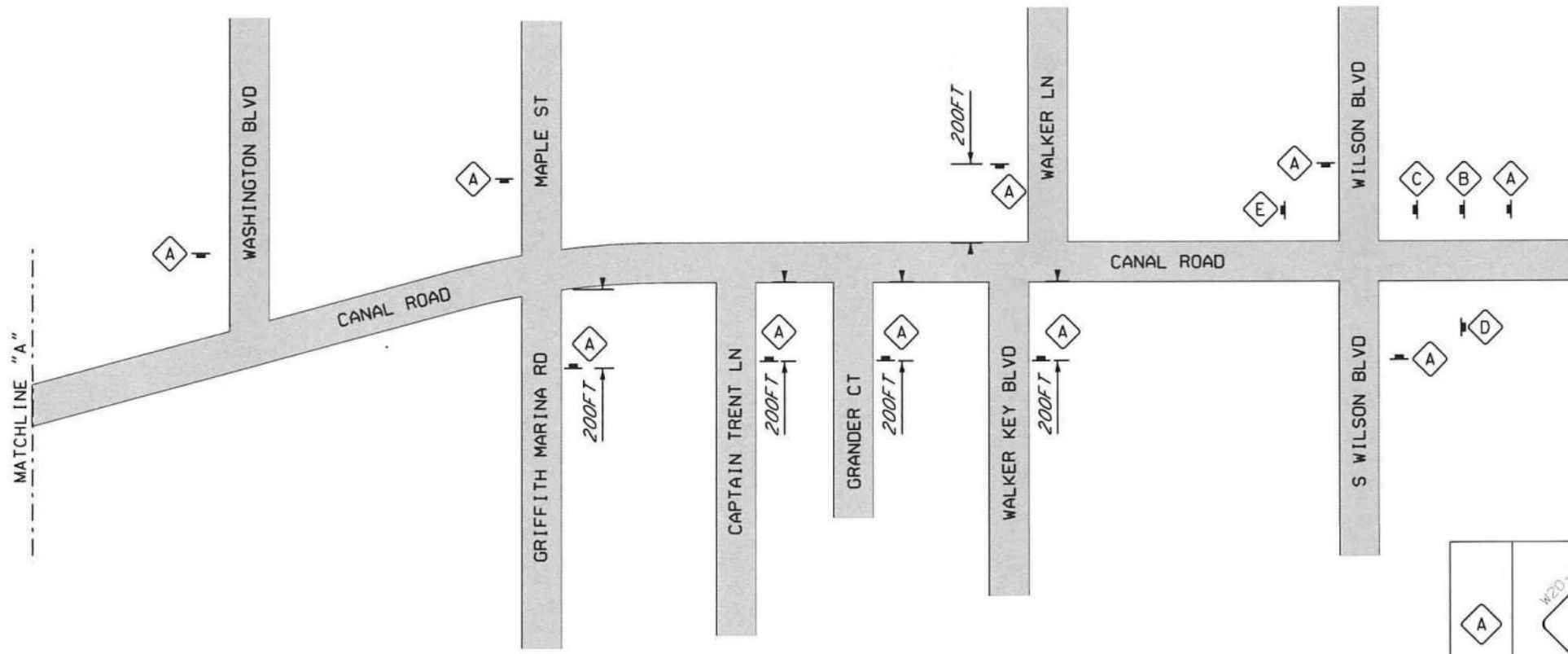
2025 RELEASE UNDER E.O. 14176

ADVANCE WARNING - ALL PHASES



NOTES:

1. ALL CONSECUTIVE SIGNS SHALL BE PLACED AT 500' INTERVALS UNLESS SHOWN OTHERWISE.
2. TYPE B WARNING LIGHTS SHALL NOT BE USED AT SIDE STREETS.



A	W20-1 ROAD WORK AHEAD	B	W20-1 ROAD WORK 1000 FT	C	W20-1 ROAD WORK 500 FT	D	G20-2A END ROAD WORK
E	G20-1 ROAD WORK NEXT 1 MILE						



CITY OF ORANGE BEACH
ORANGE BEACH, ALABAMA

CANAL ROAD IMPROVEMENTS
FROM SR-161 TO WILSON BOULEVARD

TRAFFIC CONTROL PLAN

THOMPSON ENGINEERING, P.C.
1000 WILSON BLVD
ORANGE BEACH, ALABAMA 36551
(251) 378-0190

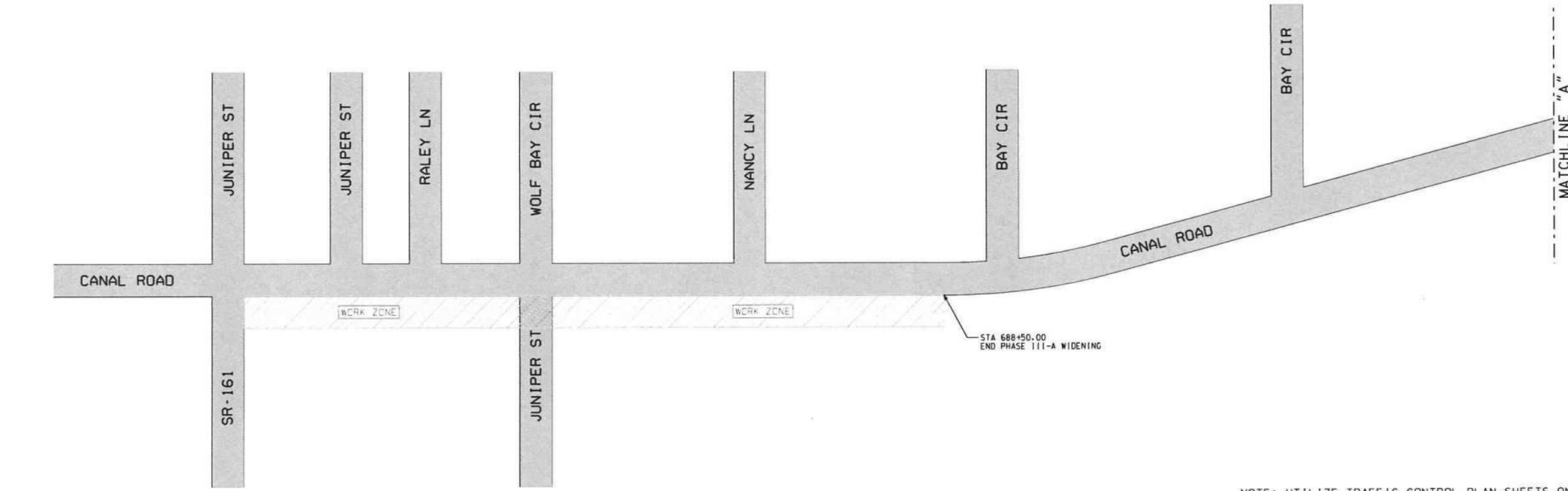
thompson

REVISION NO.	DESCRIPTION	DATE	BY:

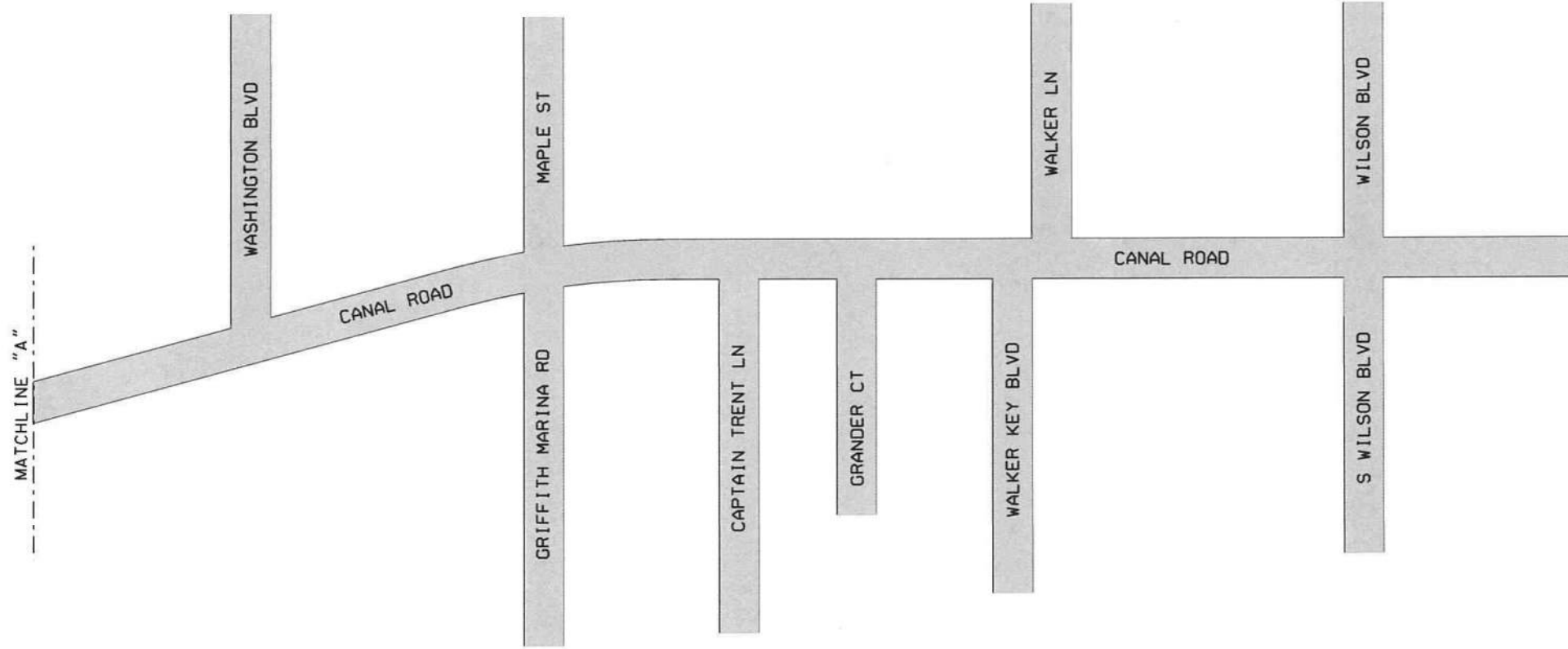
EMPLOYEE OR CONTRACTOR RESPONSIBLE FOR THIS REVISION SHALL BE RESPONSIBLE FOR ANY VIOLATIONS OF THE FEDERAL AND STATE TRAFFIC CONTROL ACTS. THE USER OF THIS PLAN SHALL BE RESPONSIBLE FOR OBTAINING THE NECESSARY PERMITS AND APPROVALS FROM THE LOCAL, STATE AND FEDERAL AUTHORITIES. THE USER SHALL BE RESPONSIBLE FOR OBTAINING THE NECESSARY PERMITS AND APPROVALS FROM THE LOCAL, STATE AND FEDERAL AUTHORITIES.

DATE: SEPT 2021
JOB NO.: 20-1101-0085
REVISION NO.: --

PHASE III-A



NOTE: UTILIZE TRAFFIC CONTROL PLAN SHEETS ON SHEET 103 THRU 106 FOR THIS PHASE.



CANAL ROAD IMPROVEMENTS FROM SR-161 TO WILSON BOULEVARD
TRAFFIC AND EROSION CONTROL PLAN SHEET

CITY OF ORANGE BEACH, ALABAMA
THOMPSON ENGINEERING, INC.
3511 WILSON BLVD
ORANGE BEACH, ALABAMA 36561
(251) 378-6190

PREPARED BY: Thompson
DRAWN BY: [blank]
CHECKED BY: [blank]
APPROVED BY: [blank]



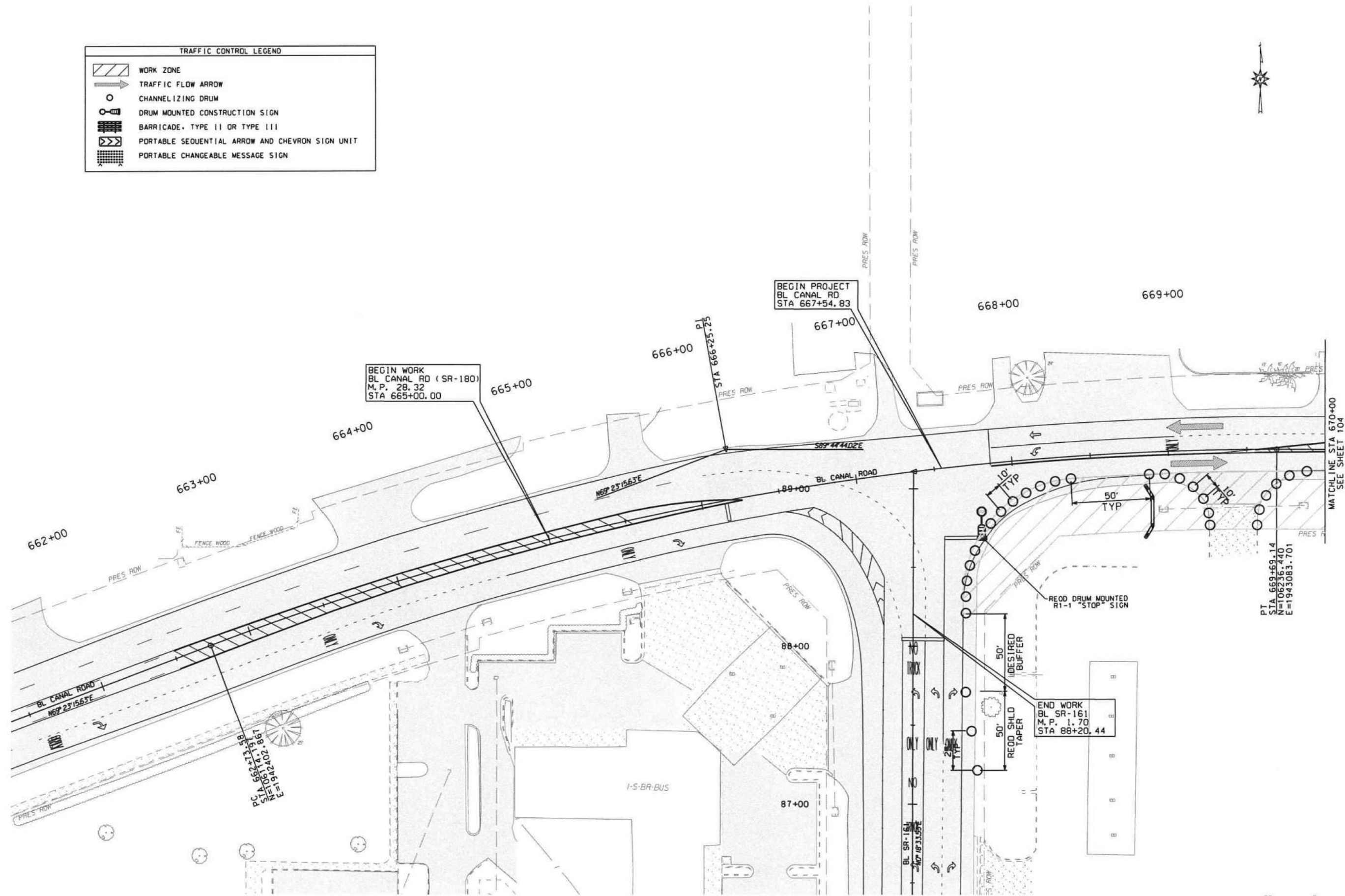
REVISION NO.	DESCRIPTION	DATE	BY:

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PHASE III-A

TRAFFIC CONTROL LEGEND	
	WORK ZONE
	TRAFFIC FLOW ARROW
	CHANNELIZING DRUM
	DRUM MOUNTED CONSTRUCTION SIGN
	BARRICADE, TYPE II OR TYPE III
	PORTABLE SEQUENTIAL ARROW AND CHEVRON SIGN UNIT
	PORTABLE CHANGEABLE MESSAGE SIGN



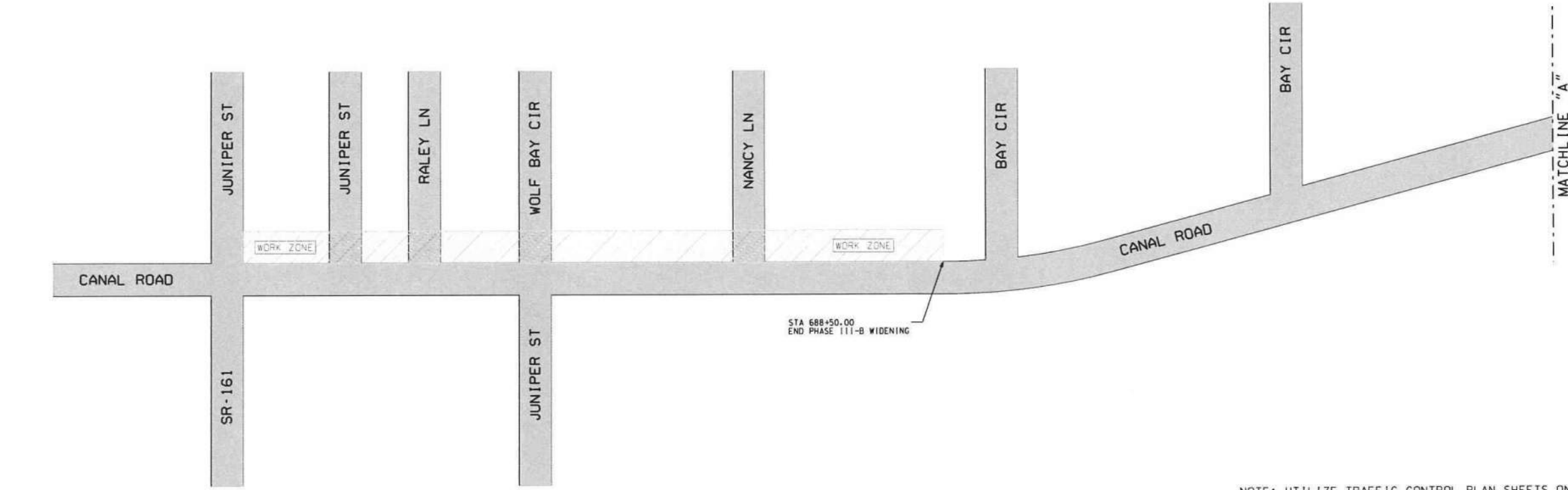
SHEET NO. 103	
CITY OF ORANGE BEACH, ALABAMA	
CANAL ROAD IMPROVEMENTS FROM SR-161 TO WILSON BOULEVARD	
TRAFFIC AND EROSION CONTROL PLAN SHEET	
DATE: SEPT 2021	REVISION NO.:
CHECKED BY:	APPROVED BY:
THOMPSON ENGINEERING, INC. 1000 WILSON BOULEVARD ORANGE BEACH, ALABAMA 36561	THOMPSON
SCALE: HORIZ 1"=30'	DATE: SEPT 2021
JOB NO. 20-1101-0085	REVISION NO. --



REVISION NO.	DESCRIPTION	DATE	BY:

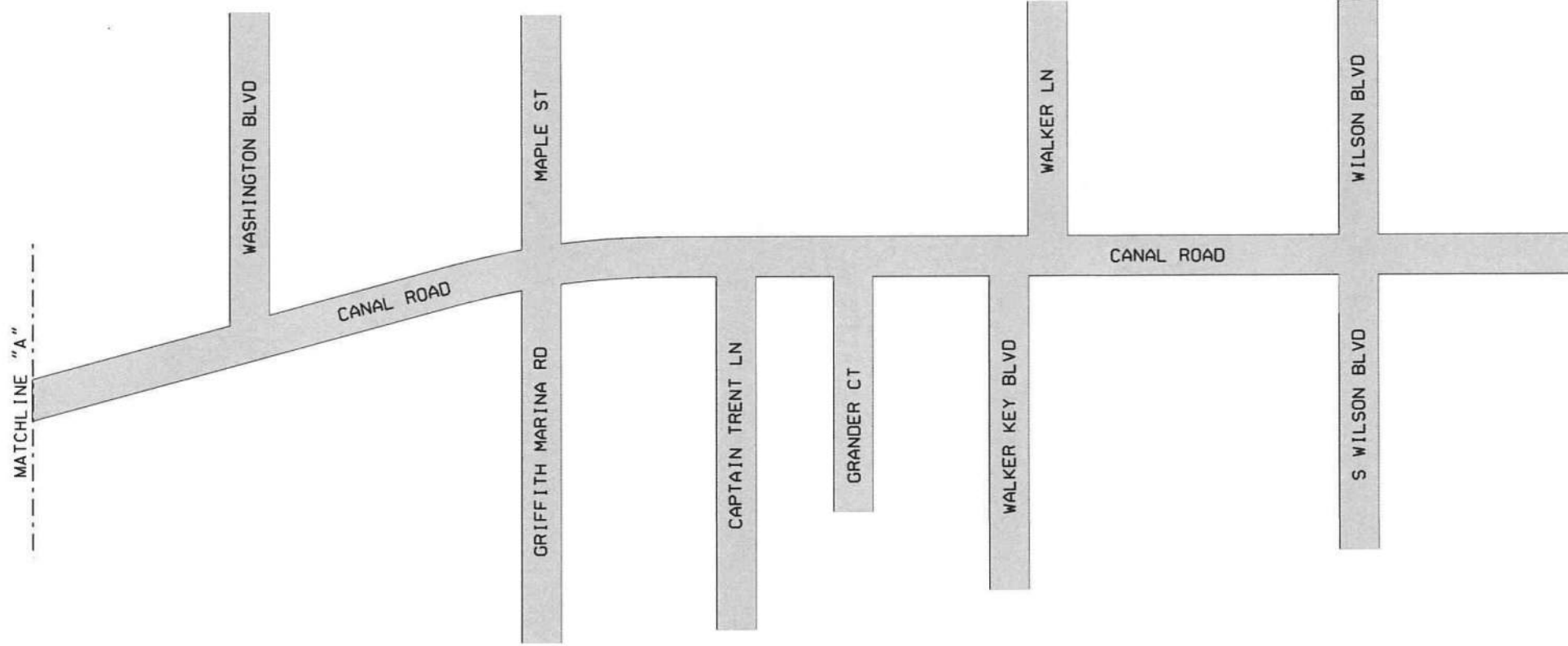
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PHASE III-B



STA 688+50.00
END PHASE III-B WIDENING

NOTE: UTILIZE TRAFFIC CONTROL PLAN SHEETS ON SHEET 108 THRU 111 FOR THIS PHASE.



SHEET NO. 107

CANAL ROAD IMPROVEMENTS FROM SR-161 TO WILSON BOULEVARD
TRAFFIC AND EROSION CONTROL PLAN SHEET

CITY OF ORANGE BEACH, ALABAMA
THOMPSON ENGINEERING, INC.
ORANGE BEACH, ALABAMA 36561
251-378-6190



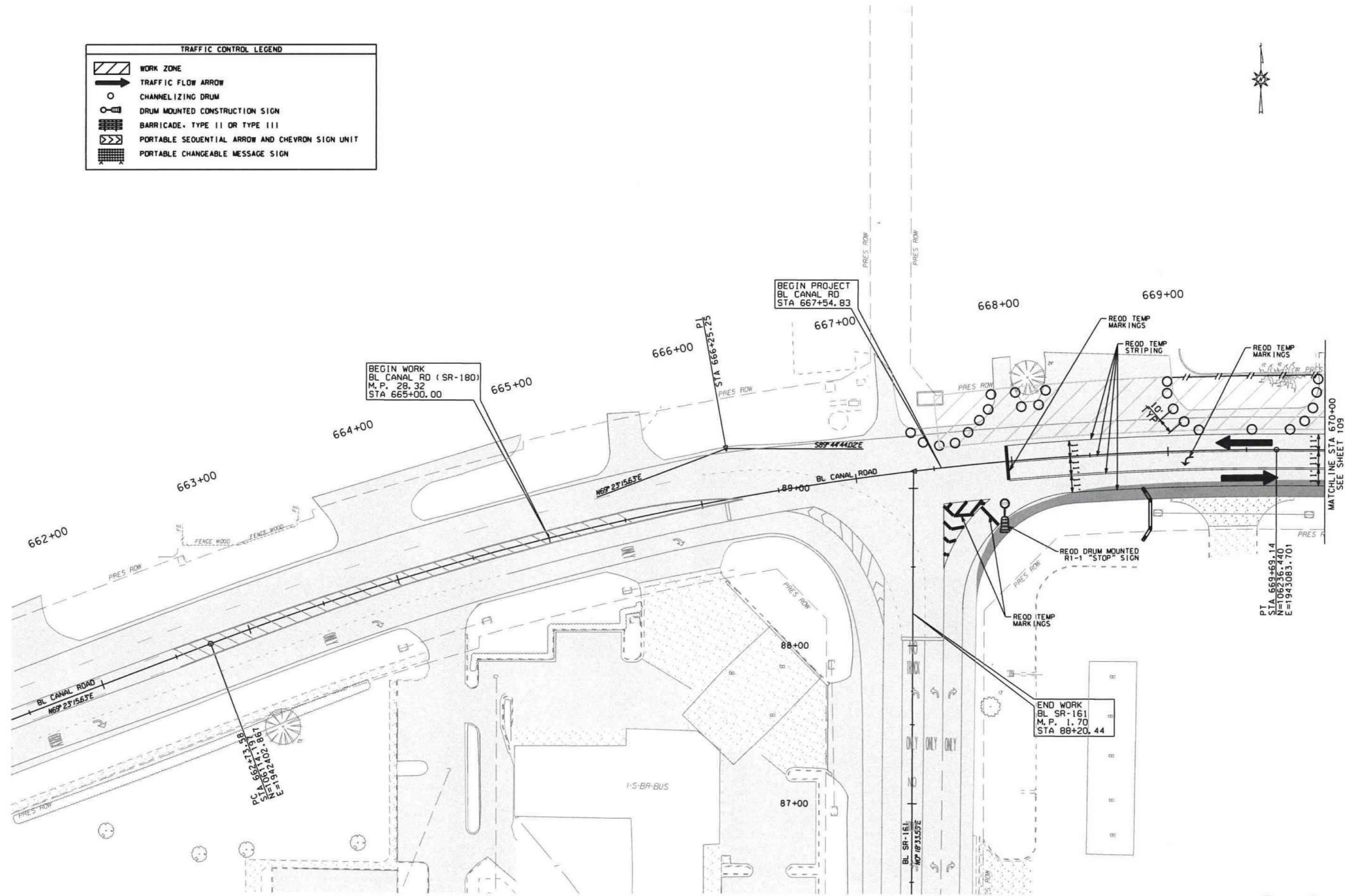
REVISION NO.	DESCRIPTION	DATE	BY:

PREPARED BY: **thompson**
 CHECKED BY:
 DRAWN BY:
 APPROVED BY:
 DATE: **SEPT 2021**
 JOB NO.: **20-1101-0085**
 REVISION NO.:

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PHASE III-B

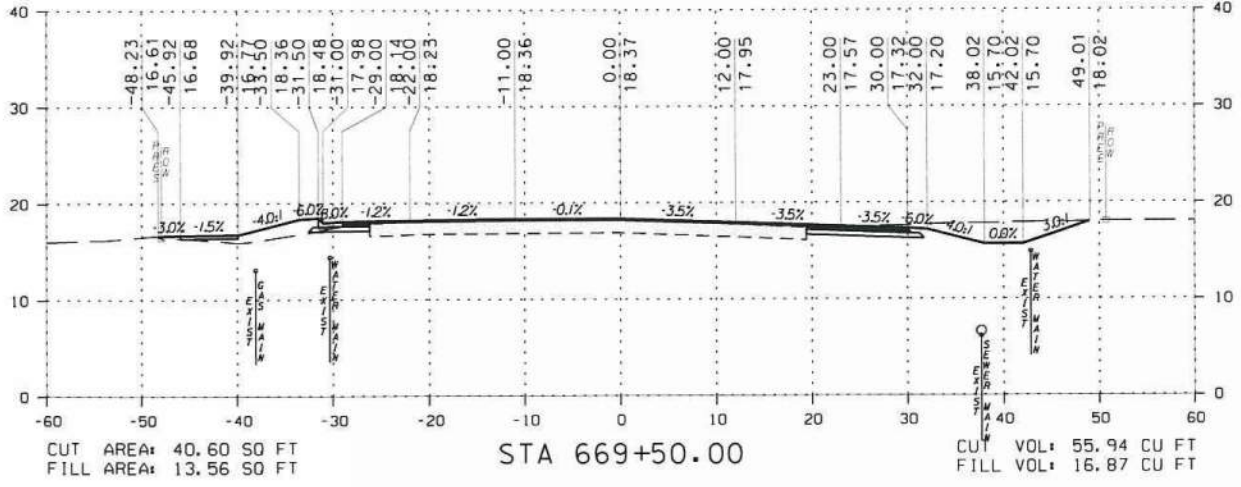
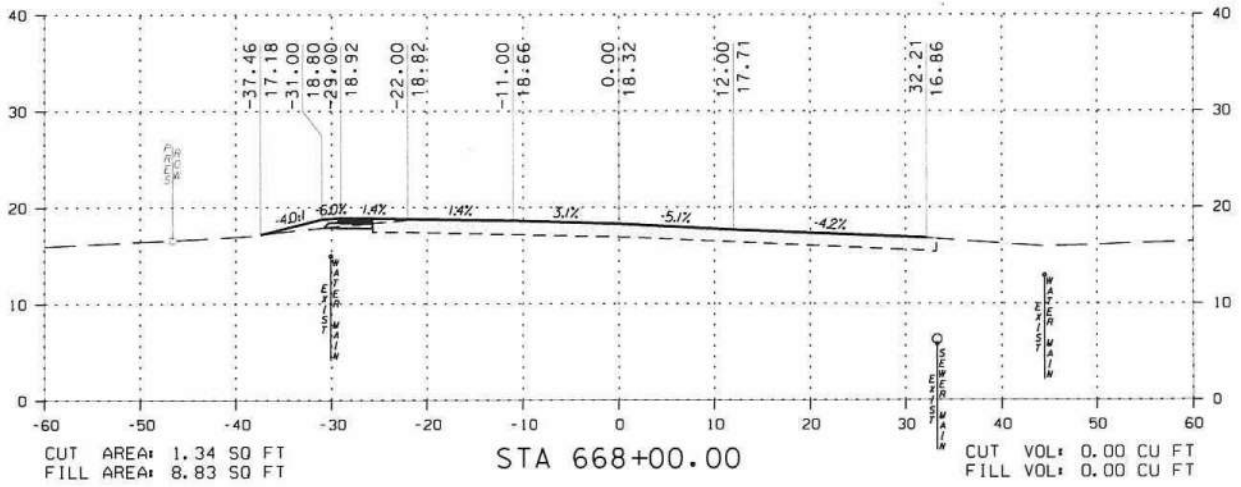
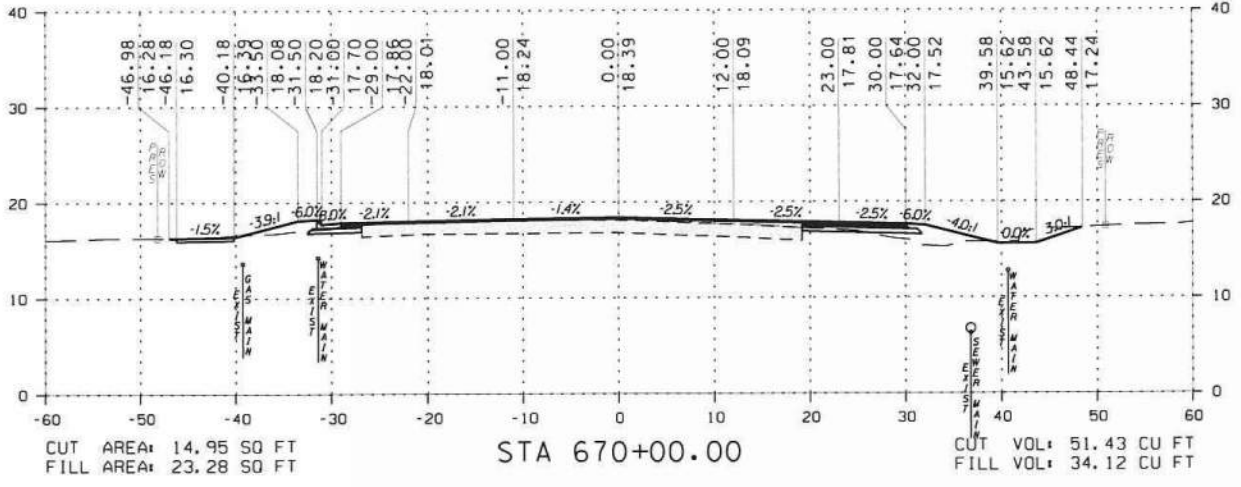
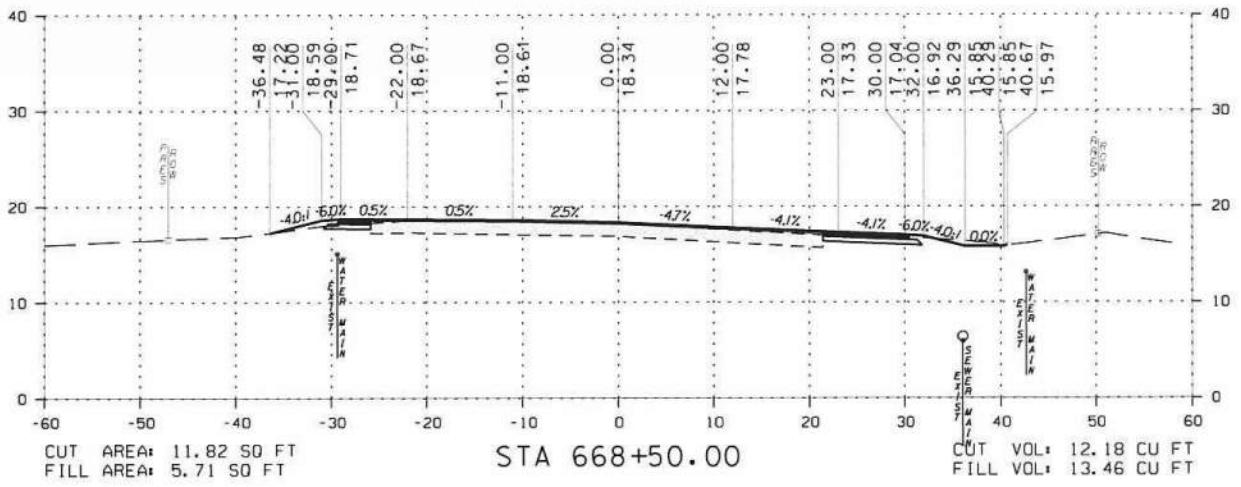
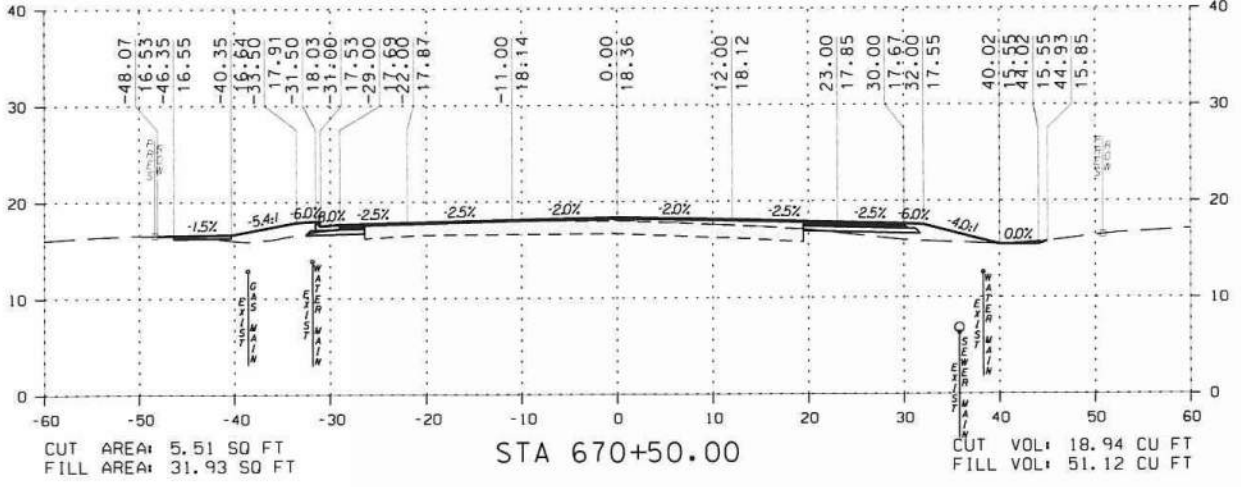
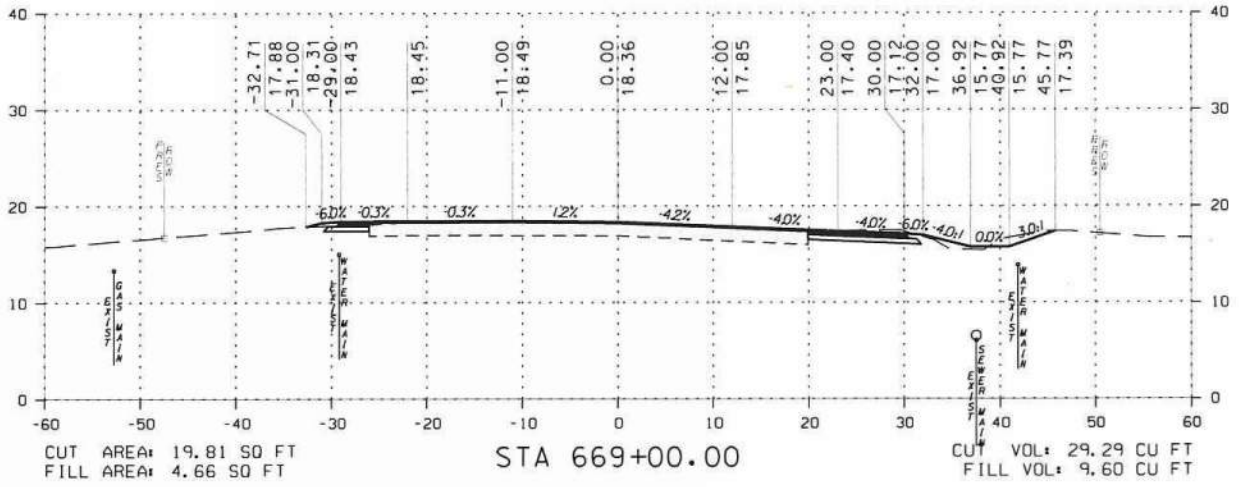
TRAFFIC CONTROL LEGEND	
	WORK ZONE
	TRAFFIC FLOW ARROW
	CHANNELIZING DRUM
	DRUM MOUNTED CONSTRUCTION SIGN
	BARRICADE, TYPE II OR TYPE III
	PORTABLE SEQUENTIAL ARROW AND CHEVRON SIGN UNIT
	PORTABLE CHANGEABLE MESSAGE SIGN



SHEET NO. 108	
CITY OF ORANGE BEACH, ALABAMA	
CANAL ROAD IMPROVEMENTS FROM SR-161 TO WILSON BOULEVARD	
TRAFFIC AND EROSION CONTROL PLAN SHEET	
DATE: SEPT 2021	JOB NO.: 20-1101-0085
CHECKED BY: THOMPSON ENGINEERING, INC.	APPROVED BY: THOMPSON ENGINEERING, INC.
DRAWN BY: THOMPSON ENGINEERING, INC.	THOMPSON ENGINEERING, INC.
HORIZ 1"=30'	SCALE: HORIZ 1"=30'

2023.09.28 7:31:02 PM

2024.09.17 10:51:27 150_250.dwg



STA 668+00.00 TO STA 670+50.00

SHEET NO. : 150	
CANAL ROAD IMPROVEMENTS FROM SR-161 TO WILSON BOULEVARD	
CROSS SECTION SHEET	
DATE : SEPT 2021	JOB NO. : 20-1101-0085
APPROVED BY :	REVISION NO. :
THOMPSON ENGINEERING, INC. 4751 WILSON STREET, SUITE 6212 ORANGE, ALABAMA 36561	
thompson	
SCALE: HORIZ 1"=30'	VERT 1"=5'
PREPARED BY :	CHECKED BY :
DRAWN BY :	DATE :
DATE :	DATE :
DATE :	DATE :
DATE :	DATE :



CITY OF ORANGE BEACH, ALABAMA

THOMPSON ENGINEERING, INC.
4751 WILSON STREET, SUITE 6212
ORANGE, ALABAMA 36561

THOMPSON

SCALE: HORIZ 1"=30'
VERT 1"=5'

PREPARED BY :
DRAWN BY :
CHECKED BY :
DATE :

DATE :
DATE :
DATE :
DATE :

ALL DIMENSIONS ARE IN FEET UNLESS OTHERWISE NOTED. THE USER SHALL BE RESPONSIBLE FOR VERIFYING THE ACCURACY OF THE DIMENSIONS AND FOR OBTAINING NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES. THE USER SHALL BE RESPONSIBLE FOR OBTAINING NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES. THE USER SHALL BE RESPONSIBLE FOR OBTAINING NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES.