

MOBILE COUNTY PUBLIC WORKS

CONTRACT DOCUMENTS AND SPECIFICATIONS



**PROJECT: GRADE-DRAIN-BASE-PAVE
MCDAVID ROAD
PROJECT NO: MCR-2018-204**

Driven  Engineering, Inc.

Unique in purpose, vision, & environment

8005 Morris Hill Road
Semmes, AL 36575
(251) 649-4011
(251) 645-0971 (Fax)
www.drivenengineering.com

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ITEM I

ADVERTISEMENT FOR BIDS

Sealed bids will be received by the County Commission of Mobile County, Alabama, in the Mobile Government Plaza, Eighth Floor South Tower, Mobile, Alabama, until **10:00 A.M.** on **SEPTEMBER 20, 2023**, and then publicly opened for furnishing all labor and materials, and performing all work required by Mobile County and described as follows:

Project: McDavid Road Grade, Drain, Base & Pave
Project No.: MCR-2018-204

One Hundred (100) working days are allowed for the construction of the project.

All bids must be on blank forms provided in the specifications and submitted in its entirety. A cashier's check drawn on an Alabama bank or a bidder's bond, payable to Mobile County, Alabama, for an amount not less than five percent (5%) of the amount bid, but in no event more than ten thousand dollars (\$10,000.00), shall be filed with the bid, as a bid guaranty. The bidder's bond shall be prepared on the form specified and issued by a surety company authorized to do business in the State of Alabama.

This project is being bid EXCLUDING TAXES and requires the Contractor to comply with applicable provisions of Section 40-9-14.1, Code of Alabama, 1975, as amended; applicable provisions of the Alabama Administrative Code; and applicable requirements of the Alabama Department of Revenue (ADOR).

A performance bond in the form and terms approved by the County in an amount not less than the contract price will be required at the signing of the contract. A labor and materials bond in the form and terms approved by the County in an amount not less than the contract price, insuring payment for all labor and materials, shall also be required at the signing of the contract. In addition, the contractor must furnish to the County at the time of the signing of the contract a certificate of insurance coverage as provided in the specifications. The right is reserved to reject any and/or all bids and to waive informalities and to furnish any item of material or work to change the amount of said contract.

Liquidated damages for non-completion of the work within the time limit agreed upon will be assessed in accordance with the terms of the contract.

Specifications are on file and may be viewed in the Mobile County, Alabama, Engineering Department, Mobile Government Plaza, Sixth Floor South Tower, Mobile, Alabama and in the office of **DRIVEN ENGINEERING, INC. 8005 MORRIS HILL ROAD, SEMMES, ALABAMA 36575**. Specifications may be obtained by prime contractor bidders by depositing **TWO HUNDRED AND NO/100 DOLLARS (\$200)** with the Project Engineer for each set. This deposit shall be refunded in full upon return of the documents in reusable condition within ten (10) days after bid opening. The cost of and return of additional sets of specifications shall be in accord with Section 39-2-3(b), Code of Alabama (1975). No Specifications will be issued later than twenty-four (24) hours prior to the time indicated above for receiving bids.

A pre-bid conference will be held on **SEPTEMBER 13, 2023 at 10:30 A.M.**, in the Mobile County, Alabama Engineering Department, Mobile Government Plaza, Sixth Floor South Tower, Mobile,

Alabama. All prospective bidders should have a representative present at the pre-bid conference.

No bids will be considered unless the bidder, whether resident or non-resident of Alabama, is properly licensed and qualified to perform the work described herein in accordance with all applicable laws of the State of Alabama. This shall include evidence of holding a current certificate to engage in general contracting in the State of Alabama, issued by the State of Alabama Licensing Board for General Contractors, Montgomery, Alabama, as required by Section 34-8-2, Code of Alabama (1975). Any contractor that desires to bid as a prime contractor must have at least one of the following major classifications of license per Section 230-X-1-.27 of the State of Alabama Licensing Board for General Contractors Administrative Code:

- 1.c.) Highways and Streets
- 1.d) Municipal and Utility
- 1.e) Heavy and Railroad Construction

Out of state corporations shall furnish a certificate of authority to transact business in Alabama. Out of state limited liability companies shall provide proof of registration to transact business in this state.

Prior to the award of a competitively bid contract to a contractor having one or more employees in the State of Alabama, Alabama law requires that the contractor provide the County proof of enrollment in E-Verify (see www.uscis.gov/everify).

If applicable to a contract resulting from this bid invitation, the successful bidder must comply with the Mobile County Contractor Felony Investigation Policy, available in the Engineering Department, or online at www.mobilecountyal.gov/government/departments/engineering.

No bid shall be withdrawn for a period of thirty (30) days subsequent to the opening of bids without the consent of the County Commission of Mobile County, Alabama. A tabulation of the bids will be available for public viewing within two (2) weeks of the award of the bid by visiting the following web address: www.mobilecountyal.gov/government/departments/engineering.

COUNTY COMMISSION OF
MOBILE COUNTY, ALABAMA

BY: RANDALL DUEITT, PRESIDENT

PUBLISH LAGNIAPPE:

FOLLOWING DATES:

AUGUST 23, AUGUST 30, SEPTEMBER 6, 2023

Charge to Mobile County

ITEM II

INSTRUCTIONS TO BIDDERS

1. PREPARATIONS OF BIDS:

Forms furnished, or copies thereof, shall be used, and strict compliance with the requirements of the invitation, these instructions, and the instructions printed on the forms is necessary. Special care should be exercised in the preparation of bids. Bidders must make their own estimates of the facilities and difficulties attending the performance of the proposed contract, including local conditions, uncertainty of weather, and all other contingencies. All designations and prices shall be fully and clearly set forth. The proper space in the bid and guaranty forms shall be suitably filled in.

2. LABOR AND MATERIALS NOT TO BE FURNISHED BY MOBILE COUNTY, ALABAMA:

The County Commission of Mobile County, Alabama, will not furnish any labor, material, or supplies unless specifically provided in the Contract.

3. SIGNATURE TO BIDS:

Each bid must give the full business address of the Bidder and must be signed by him with his usual signature. Bids by partnerships must furnish the full names of all partners and must be signed with the partnership name by one of the members of the partnership, or by an authorized representative, followed by the signature and designation of the person signing. Bids by corporations must be signed with the legal name of the corporation followed by the name of the State of Incorporation and by the signature and designation of the president, secretary, or other person authorized to bind it in the matter. The name of each person shall also be typed or printed below the signature. A bid by a person who affixes to this signature the word "president," "secretary," "agent," or other designation without disclosing his principal, may be held to be the bid of the individual signing. When requested by the County Commission of Mobile County, Mobile County, Alabama, satisfactory evidence of the authority of the officer signing in behalf of the corporation shall be furnished.

4. BIDS FOR ALL OR PART:

Each project will be bid separately unless otherwise expressly requested in the Proposal. Combination bids, that is bids on separate projects lumped together as a single bid or on all or none bid or on all or none basis, will not be accepted unless the Proposal expressly requests or permits same.

5. ALTERNATE BIDS:

Alternate bids will not be considered unless called for.

6. SPECIFICATIONS AND SCHEDULES:

The specifications, conditions, schedules and drawings which form the basis of any bid will be considered as a part thereof and will form a part of the Contract.

Copies of these papers, together with a copy of the standard contract form, including authorized additions, or deletions, if any, will be furnished to or made available for the inspection of bidders by the office indicated in the advertisement of invitation.

7. CORRECTIONS:

Erasures or other changes in the bids must be explained or noted over the signature of the bidder.

8. OWNER:

Where the word "Owner" appears herein, the same refers to Mobile County, Alabama, and includes the County Commission of Mobile County, its governing body.

9. GUARANTY AND INSURANCE:

Security is required to insure the execution of Contract and bond for performance of the services, and no bid will be considered unless it is so guaranteed. The bidder must furnish with his bid a guaranty bond or cashier's check drawn on an Alabama bank in the amount of 5% of his bid price, but in no event more than ten thousand dollars (\$10,000.00), payable to Mobile County, Alabama. Cashier's check or bid bonds, will, at the option of the Owner, be paid into the funds of Mobile County, Alabama, as liquidated damages upon failure of the successful bidder to execute the written contract and furnish the performance bond, labor and materials bond, and insurance coverages as hereinafter required, within fifteen (15) days after the prescribed forms have been presented to him or her for signature, unless an extension is granted, in writing, by Mobile County.

10. BONDS AND INSURANCE:

The bonds and insurance policies of any surety company or insurance company respectively, authorized to do business in the State of Alabama, will be accepted as security and insurance as required for any bid or contract. See the instructions hereinafter contained and the applicable standard forms with respect to the type, form, and amounts of required bonds and insurance policies.

11. MARKING AND MAILING BIDS:

Bids, with their guarantee, must be securely sealed in suitable envelopes, addressed and marked on the outside "County Commission of Mobile County, Bids for McDavid Road Grade, Drain, Base & Pave, MCR-2018-204, to be opened TBD at 10:00 AM." (List project number, project name, general contractor name and general contractor's license number on envelope.)

12. TIME FOR RECEIVING BIDS:

Bids received prior to the time of opening will be securely kept, unopened. The Owner will decide when the specified time has arrived, and no bid will be considered if received thereafter, except that when a bid arrives by mail after time for opening, but before award is made, and it is shown to the satisfaction of the Owner that the non-arrival on time was due solely to delay in the mails for which the bidder was not responsible, such bid will be received and considered. No responsibility will attach to Mobile County or the County Commission for the premature opening of a bid not properly addressed or identified. Unless specifically authorized, telegraphic bids will not be considered, but modifications by telegraph of bids already submitted will be considered if received prior to the hour set for opening.

13. WITHDRAWAL OF BIDS:

Bids may be withdrawn on written or telegraph request received from bidders prior to the time fixed for opening. Negligence on the part of the Bidder in preparing the bid confers no right for the withdrawal of the bid after it has been opened.

14. BIDDERS PRESENT:

At the time fixed for the opening of bids, their contents will be made public for the information of bidders and others properly interested who may be present either in person or by representation.

15. AWARD OR REJECTION OF BIDS:

The Contract will be awarded to the lowest responsible and responsive bidder complying with conditions of the invitation for bids, provided his bid is reasonable and it is in the interest of the Owner to accept it. The bidder to whom the award is made will be notified at the earliest possible date. The Owner, however, reserves the right to reject any and all bids and to waive any informality in bids received whenever such rejection or waiver is in the interest of the Owner. It also reserves the right to reject the bid of a bidder who has previously failed to perform properly or complete on time contracts of a similar nature, or a bid of a bidder who is not, in the judgment of the Owner, in a position to perform the Contract.

16. BIDDERS INTERESTED IN MORE THAN ONE BID:

If more than one bid is offered by any one party, by or in a name of his clerk, partner, corporation in which he has a substantial interest, or in which he is an officer, or other person, all such bids may be rejected. A party who has quoted prices on materials to a bidder is not thereby disqualified from quoting prices to other bidders or from submitting a bid directly for the materials or work. The County Commission of Mobile County reserves the right to determine in its discretion whether the provisions of this clause have been violated by any bidder.

17. ERRORS IN BIDS:

Bidders or their authorized agents are expected to examine the maps, drawings, specifications and all other instructions pertaining to the work, which will be open to their inspection. Failure to do so will be at the Bidder's own risk, and he cannot secure relief on the plea of error in the bid. In case of error in the extension of prices, the unit price will govern.

18. CONTRACT AND BOND:

The bidder to whom award is made must, when requested, enter into written contract on the standard form as set out herein, with satisfactory security in the amount required, within the period specified, or, if no period be specified, within fifteen (15) days after the prescribed forms have been presented to him or her for signature, unless an extension is granted, in writing, by Mobile County.

19. COLLUSION:

If there is any reason for believing that collusion exists among the Bidders any or all Proposals may be rejected, and those participating in such collusion may be barred from submitting bids on the same or other work with the County.

20. SUBLETTING OR ASSIGNING OF CONTRACT:

(a) Limitations. The Contractor shall not sublet, assign, transfer, convey, sell, or otherwise dispose of any portion of the contract, his right, title or interest therein, or his power to execute such contract, to any person, firm or corporation without written consent of the County, and such written consent shall not be construed to relieve the Contractor of any responsibility for the fulfillment of the contract. Unless otherwise stipulated in the proposal or special provisions, the Contractor shall perform with his own organization, and with the assistance of workmen under his immediate superintendence and reported on his payroll, all contract work of a value not less than 30 percent of the total contract amount, except that any items designated in the contract as "Specialty Items" so performed by subcontract may be deducted from the total contract amount before computing the amount of work required to be performed by the Contractor with his own organization.

(b) Subcontractor's Status: A Subcontractor shall be recognized only in the capacity of an employee or agent of the Contractor and the Contractor will be responsible to the County for all of the subcontractor's work, including failures or omissions; and his removal may be required by the Engineer, as in the case of an employee.

21. PROSECUTION OF WORK:

(a) Notice of Intent: The Contractor shall give the Engineer definite notice of his intention to start work at least 72 hours in advance of beginning work and at least 24 hours in advance of beginning particular features of construction, such as driving piles, placing concrete, etc. Should prosecution of the work be discontinued by the Contractor with the consent of the Engineer, the Contractor shall give the Engineer at least 48 hours notice in writing before resuming operations.

(b) General: The Contractor shall prosecute the work continuously and diligently in the order and manner set out in his schedule as approved by the Engineer. He shall provide sufficient satisfactory materials, labor, and equipment to insure that the work will be completed in a satisfactory manner within the time specified in the contract.

Should the Contractor fail to maintain a satisfactory rate of progress, the Engineer will require that additional forces and equipment be placed on the work to bring the project up to schedule and maintain it at that level.

Should the Contractor fail to furnish sufficient satisfactory equipment and labor for maintaining the quality and progress of the work at satisfactory level, the Engineer may withhold all estimates which are or may become due until satisfactory quality and progress are maintained; or the contract may be annulled.

ITEM III
PROPOSAL

Date: _____

Proposal of _____

Alabama License No. _____ of _____

for the performance of all work and the furnishing of all labor and materials required by the Contract terms, Specifications, and special provisions, for the public project designated as Project # MCR-2018-204.

The Specifications are attached hereto and specified and made a part hereof.

TO: The County Commission of Mobile County, Mobile, Alabama

Dear Sirs:

The following proposal is made on behalf of _____ and no others. Evidence of _____ authority to submit the proposal is herewith furnished. The proposal is made without collusion on the part of any person, firm, or corporation.

_____ certify that _____ have carefully examined the plans for this project and the specifications hereto attached including the special provisions, and have also personally examined the site of work. On the basis of the specifications and plans _____ propose to furnish all necessary machinery, tools, apparatus, and other means of construction, and do all the work and furnish all the material in the manner specified.

_____ further agree to complete all the work in One Hundred (100) working days.

_____ understand that the quantities below are approximate only and are subject to either increase or decrease, and hereby propose to perform any increased or decreased quantities of work at the price bid, subject to adjustments as specified in Section 104.

_____ further propose to perform all "Force Account or Extra Work" that may be required of _____ on the basis provided in the Specifications hereto attached, and to give such work _____ personal attention in order to see that it is economically performed.

_____ further propose to execute the attached Contract Agreement as soon as the work is awarded to _____ and to begin and complete the work within the respective time limit provided for in the Specifications and Notice to Contractors hereto attached.

_____ propose to furnish a Contract Labor and Materials Bond, approved by the Owner in an amount equal to the total amount of the bid. _____ also propose to furnish a Contract Performance Bond, approved by the Owner in an amount equal to the total amount of the bid. These bonds shall serve not only to guarantee the completion of the work on _____ part, but also to guarantee the excellence of both workmanship and materials until the work is finally accepted.

_____ enclose a cashier's check for _____ Dollars \$ _____ or bid bond in the form specified for five (5%) percent of _____ bid (not to exceed ten thousand dollars (\$10,000.00) as a bid guaranty and hereby agree that in case of _____ failure to execute a Contract and furnish Bond within 15 days after the prescribed forms have been presented to _____ for signature, the awarding authority shall retain from the proposed guaranty if it be a cashier's check, or recover from the principal or the sureties if the guaranty be a bid bond, the difference between the amount of the contract as awarded and the amount of the proposal of the next lowest responsible and responsive bidder. If no other bids are received, the full amount of the proposal guaranty shall be so retained or recovered as liquidated damages for such default. It is understood that in case the work is not awarded to _____ the check will be returned as provided in the Specifications hereto attached.

Signature of Bidder (If Firm or Individual) _____

By: _____

Address of Bidder _____

Name and Address of Member of Firm _____

Signature of Bidder (Corporation) _____

President Business Address _____

Secy. & Treas. Business Address _____

Attest: _____ Incorporated in _____ State

(Corporate Seal)

PROJECT NO. **MCR-2018-204**

The following items shall be constructed in accordance with the *Alabama Department of Transportation Standard Specifications for Highway Construction*, Current, Non-metric Edition, except as modified herein:

NOTES:

1. The following unit prices shall include all labor, materials, equipment rental, overhead, profit, insurance, etc., to cover the finished work of the several kinds called for.
2. Bidder understands that the Owner reserves the right to reject any and all bids.

PROJECT: MCR-2018-204

DESCRIPTION: McDavid Road Grade, Drain, Base & Pave

PROJECT TOTAL	ITEM NUMBER	UNIT	DESCRIPTION	UNIT PRICE	TOTAL AMOUNT
ROADWAY ITEMS					
1	201-A002	LS	CLEARING AND GRUBBING (APPROX. 6 ACRES)		
20	206-C023	SY	REMOVING RIPRAP		
80	206-C001	SY	REMOVING CONCRETE PAVEMENT		
101	206-C030	SY	REMOVING ASPHALT		
756	206-D000	LF	REMOVING PIPE		
58	206-E000	EA	REMOVING HEADWALLS		
24	209-A000	EA	MAILBOX RESET		
6230	210-A000	CY	UNCLASSIFIED EXCAVATION		
1000	210-A001	CY	UNCLASSIFIED EXCAVATION (SPECIAL UNDERCUT)		
1420	210-D001	CY	BORROW EXCAVATION (LOOSE TRUCKBED MEASUREMENT)		
1500	210-D022	CY	BORROW EXCAVATION (LOOSE TRUCKBED MEASUREMENT) A-2-4(0) OR A-4(0)		
35	230-A000	STA	ROADBED PROCESSING		
8455	301-A008	SYCIP	CRUSHED AGGREGATE BASE COURSE, TYPE B, PLANT MIXED, 5" COMPACTED THICKNESS		
8455	401-A000	SY	BITUMINOUS TREATMENT A		
837	424-A340	TON	SUPERPAVE BITUMINOUS CONCRETE WEARING SURFACE LAYER, 1/2" MAXIMUM AGGREGATE SIZE MIX, ESAL RANGE A/B (180 LB/SY)		
200	430-B003	TON	AGGREGATE SURFACING		
76	530-A001	LF	36" ROADWAY PIPE (CLASS 3 RC)		
432	535-A002	LF	15" SIDE DRAIN PIPE		
208	535-A003	LF	18" SIDE DRAIN PIPE		
128	535-A002	LF	24" SIDE DRAIN PIPE		
38	535-B001	LF	18" SPAN, 11" RISE SIDE DRAIN PIPE		
266	535-B002	LF	29" SPAN, 18" RISE SIDE DRAIN PIPE		
152	535-B003	LF	36" SPAN, 23" RISE SIDE DRAIN PIPE		
1	600-A000	LS	MOBILIZATION		
300	610-A004	SY	LOOSE RIPRAP, CLASS 2, 24" THICK		
300	610-D003	SY	FILTER BLANKET, GEOTEXTILE (NON-WOVEN)		
205	614-B000	CY	REINFORCED SLOPE PAVING		
66	618-B001	SY	CONCRETE DRIVEWAYS, 5" THICK		
22	619-A102	EA	15" SIDE DRAIN PIPE END TREATMENT CLASS 1 4:1 SLOPE		
10	619-A102	EA	18" SIDE DRAIN PIPE END TREATMENT CLASS 1 4:1 SLOPE		
6	619-A102	EA	24" SIDE DRAIN PIPE END TREATMENT CLASS 1 4:1 SLOPE		
2	619-B101	EA	18" SPAN, 11" RISE SIDE DRAIN PIPE END TREATMENT CLASS 1 4:1 SLOPE		
12	619-B102	EA	29" SPAN, 18" RISE SIDE DRAIN PIPE END TREATMENT CLASS 2 4:1 SLOPE		

PROJECT TOTAL	ITEM NUMBER	UNIT	DESCRIPTION	UNIT PRICE	TOTAL AMOUNT
4	619-B103	EA	36" SPAN, 23" RISE SIDE DRAIN PIPE END TREATMENT CLASS 2 4:1 SLOPE		
2	619-B116	EA	36" ROADWAY PIPE END TREATMENT CLASS 2 3:1 SLOPE		
24	623-B120	LF	CONCRETE CURB, RAVEL		
3564	637-A000	LF	FENCE RESET		
4400	650-A000	CYIP	TOPSOIL APPROX 4" THICK		
6	652-C000	AC	MOWING		
3	652-A100	AC	SEEDING		
10000	654-A000	SY	SOLID SODDING		
3	656-A010	AC	MULCHING		
2000	656-D000	SY	EROSION CONTROL NETTING		
3	665-A000	AC	TEMPORARY SEEDING		
150	665-B000	TON	TEMPORARY MULCHING		
6	665-H000	EA	EROSION CONTROL CHECK DAM (RIPRAP)		
6750	665-J002	LF	SILT FENCE		
6750	665-O001	LF	SILT FENCE REMOVAL		
1000	665-Q002	LF	WATTLE		
1	680-A000	LS	GEOMETRIC CONTROLS		
1	698-A001	LS	CONSTRUCTION FUEL (MAXIMUM BID LIMITED TO \$57700)		
2	740-I001	EA	WARNING LIGHTS, TYPE B		
208	740-B001	SF	CONSTRUCTION SIGNS (TYPE IV)		
75	740-D000	EA	CHANNELIZING DRUMS		
1024	1002-A001	SY	RESIDENTIAL ASPHALT DRIVEWAY		
264	1002-B001	SY	COMMERCIAL ASPHALT DRIVEWAY		
TOTAL BID (ROAD ITEMS)					

WATER ITEMS					
PROJECT TOTAL	ITEM NUMBER	UNIT	DESCRIPTION	UNIT PRICE	TOTAL AMOUNT
400	206-D	LF	REMOVING UTILITY LINES		
450	641-A1	LF	3/4" H.D.P.E. WATER SERVICE LINE LAID		
340	641-A2	LF	6" PVC WATER MAIN LAID		
85	641-A3	LF	6" DI WATER MAIN LAID		
374	641-C	LBS	DUCTILE IRON FITTINGS		
1	641-E	EA	FIRE HYDRANT RESET		
2	641-J	EA	6" GATE VALVE AND BOX		
2	641-L	CY	CONCRETE FOR WATER MAINS (THRUST BLOCKS)		

PROJECT TOTAL	ITEM NUMBER	UNIT	DESCRIPTION	UNIT PRICE	TOTAL AMOUNT
25	641-M	EA	6" RETAINER GLANDS		
2	641-P1	EA	3/4" SERVICE TAP AND CORPORATION STOP		
1	641-P2	EA	6"X6" TAPPING SLEEVE AND VALVE		
12	641-R1	EA	3/4" WATER METER AND BOX RESET		
12	641-R2	EA	3/4" CURB STOP		
TOTAL BID (WATER ITEMS)					

TOTAL BID (ALL ITEMS)	
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FOR VIEWING ONLY
MUST PURCHASE TO BID

ITEM IV

BID BOND

KNOW ALL MEN BY THESE PRESENTS:

That _____ of
(Name of Contractor)

(Address)

as Principal, and _____ of
(Name of Surety)

_____, as Surety, are held firmly
(Address)

bound unto MOBILE COUNTY, a Political Subdivision of and Body Corporate in the State of Alabama as Obligee, in the full and just sum of FIVE PERCENT (5%) OF AMOUNT BID (Maximum Amount of Bond \$10,000), lawful money of the United States, for the payment of which sum, well and truly to be made, we bind ourselves, our heirs, executors, administrators, successors and assigns, jointly and severally, firmly by these presents.

WHEREAS, the said Principal is herewith submitting its proposal for

McDavid Road Grade, Drain, Base & Pave,
MCR-2018-204.

The condition of this obligation is such that if the aforesaid Principal shall be awarded the contract the said Principal will, within the time required, enter into a formal contract and give a good and sufficient bond to secure the performance of the terms of and conditions of the Contract, then this obligation to be void; otherwise, the Principal and the Surety will pay unto the Obligee the difference in money between the amount of the Contract as awarded and the amount of the proposal of the next lowest responsive and responsible bidder, which amount shall not exceed \$10,000. If no other bids are received, the full amount of the proposal guarantee shall be so retained or recovered as liquidated damages for such default.

Signed, Sealed and Delivered

Date

Witness as to Principal:

Contracting Firm

Countersigned:

By: _____(SEAL)

Name of Surety

By _____

BIDS WILL NOT BE CONSIDERED UNLESS BID BOND IS SIGNED BY PRINCIPAL AND SURETY.

ITEM V

PERFORMANCE BOND

KNOW ALL MEN BY THESE PRESENTS: That we (Insert Contractor's Legal Title or Name), (insert Contractor address), hereinafter called the Principal, and (Insert Surety Company Name), (Insert Surety Company Address), and (Insert Surety Company Name), (Insert Surety Company Address), and (Insert Surety Company Name), (Insert Surety Company Address), hereinafter called the Surety or Sureties, are held and firmly bound unto Mobile County, a political subdivision of and Body Corporate in the State of Alabama, hereinafter called the Owner in the sum of _____ dollars and _____ cents (\$ _____) for the payment whereof the Principal and the Surety or Sureties bind themselves, their heirs, executors, administrators, successors and assigns, jointly and severally, firmly, by these presents.

WHEREAS, the Principal has, by means of a written agreement, dated _____ entered into a contract with the Owner for: McDavid Road Grade, Drain, Base & Pave, MCR-2018-204 which agreement is by reference made a part hereof,

NOW THEREFORE, The conditions of this obligation is such that if the Principal shall faithfully perform the Contract on his part, and satisfy all claims and demands, incurred for the same, and shall fully indemnify and save harmless the Owner from all cost and damage which he may suffer by reason of failure to do so, and shall reimburse and repay the Owner all outlay and expense which the Owner may incur in making good for any such default thence this obligation shall be null and void; otherwise, it shall remain in full force and effect.

PROVIDED, HOWEVER, that no suit, action or proceedings, by reason of any default whatever be brought on his Bond after twelve months from the day on which the final payment under the Contract falls due.

PROVIDED, further, that the said surety or sureties, for value received hereby stipulate and agree that no change, extension of time, or addition to the terms of the Contract or to the work to be performed thereunder of the Specifications thereof shall in any way effect their obligations on this bond, and they do hereby waive notice of any such change, extension of time, alteration or addition to the terms of the contract, or to the work, or to the Specifications.

Signed and Sealed this _____ day of _____, 2023 ____.

In the presence of:

(Insert Contractor's Legal Title or Name)

(Corporate Principal Sign Here) (SEAL)

Attest:

(Insert Surety Company Name)

By: _____
(Surety Sign Here)

Witness: _____ (printed name of signatory)

By: _____

Countersigned:

ITEM VI

LABOR AND MATERIALS BOND

KNOW ALL MEN BY THESE PRESENTS, that we (Insert Contractor's Legal Title or Name) as Principal, and (Insert Surety Company Name) as Surety, are held and firmly bound unto said Mobile County, a political subdivision of and body corporate in the State of Alabama, hereinafter called the Obligee, in the penal sum of _____ dollars and _____ cents (\$ _____) lawful money of the United States, for the payment of which sum and truly to be made, we bind ourselves, our heirs, personal representatives, successors and assigns, jointly and severally, firmly by these presents.

WHEREAS, said principal has entered into a certain Contract with said Obligee, dated _____, 2023. (Hereinafter called the Contract) McDavid Road Grade, Drain, Base & Pave, MCR-2018-204, which Contract and the Specifications for said work shall be deemed a part hereof as fully as if set out herein.

NOW, THEREFORE, THE CONDITION OF THIS OBLIGATION IS SUCH THAT if the said Principal and all subcontractors to whom any portion of the work in said contract is sublet and all assignees of said Principal and of such subcontractors shall promptly make payments to all persons supplying him or them with labor, materials, or supplies for or in the prosecution of the work provided for in such Contract, or any amendment or extension of or addition to said Contract, and for the payment of reasonable attorney's fees incurred by the successful claimant or plaintiffs in suits or claims against the contractor arising out of or in connection with the said contract, then the above obligation shall be void; otherwise to remain in full force and effect.

PROVIDED, HOWEVER, that this bond is subject to the following conditions and limitations.

(a) Any person, firm or corporation that has furnished labor, materials, or supplies for or in the prosecution of the work provided for in said Contract shall have a direct right to action against the Principal and Surety on this bond, which right of action shall be asserted in a proceeding, instituted in the County in which the work provided for in said Contract is to be performed or in any County in which said Principal or Surety does business. Such right of action shall be asserted in a proceeding instituted in the name of the claimant or claimants for his or their use and benefit against the Principal and Surety or either of them (but not later than one year after the final settlement of said Contract falls due) in which action such claim or claims shall be adjusted and judgment rendered thereon.

(b) The Principal and Surety hereby designate and appoint the President of the County Commission of Mobile County, Mobile County, State of Alabama, or his successor or representative as the agent of each of them to receive and accept services of process or other pleading issued, or filed in any proceeding instituted on this bond and hereby consent that such service shall be the same as personal service on the Principal and/or Surety.

(c) The Surety shall not be liable hereunder for any damages or compensation recoverable under Workmen's Compensation or Employer's Liability Statute.

(d) In no event shall the Surety be liable for a greater sum than the penalty of this bond, or subject to any suit, action or proceeding thereon that is instituted later than one year after the final settlement of said contract.

(e) This Bond is given pursuant to the terms of §39-1-1, Code of Alabama, 1975, as amended

SIGNED, SEALED AND DELIVERED this _____ day of _____, 2023.

In the Presence Of:

(Insert Contractor's Legal Title or Name)

(Corporate Principal Sign Here) (SEAL)

Attest:

(Print name)

(Insert Surety Company Name)

By: _____ (SEAL)
(Surety Sign Here)

Witness:

(Printed name of signatory)

Countersigned:

INSTRUCTIONS

1. The full name (given, initial, surname) and residence of each individual party to the Bond must be inserted in the first paragraph.
2. If the Principal is a partnership, the full name of all partners must be inserted in the first paragraph which must recite that they are the partners composing the partnership (to be named) and all partners must execute the Bond as individuals.
3. The State of Incorporation of each corporate party to bond must be inserted in the first paragraph and the Bond must be executed under the Corporate Seal of each party attested by its Secretary or other appropriate Officer.
4. The date of the Bond must not be prior to the date of the Contract.

FOR VIEWING ONLY
MUST PURCHASE TO BID

ITEM VII

INSURANCE REQUIREMENTS

Contractor, at its sole expense, shall obtain and maintain in full force the following insurance to protect the Contractor and the Mobile County Commission (MCC) at limits and coverages specified herein. These limits and coverages specified are the minimum to be maintained and are not intended to represent the correct insurance needed to fully and adequately protect the Contractor. If requested by MCC, Contractor will provide copies of policies within 10 days of request.

All insurance will be provided by insurers licensed to conduct business in the State of Alabama and shall have a minimum A.M. Best rating of A- VII and must be acceptable to MCC. Self-insured plans and/or group funds not having an A.M. Best rating must be submitted to MCC for prior approval.

NO WORK IS TO BE PERFORMED UNTIL PROOF OF COMPLIANCE WITH THE INSURANCE REQUIREMENTS HAS BEEN RECEIVED BY MCC.

(a) Worker's Compensation and Employers Liability

Part One: Statutory Benefits as required by the State of Alabama

Part Two: Employers Liability \$1,000,000 Each Accident
 \$1,000,000 Each Employee
 \$1,000,000 Policy Limit

Policy shall contain a Waiver of Subrogation Endorsement in favor of MCC.

(b) Commercial General Liability

Coverage on an Occurrence form with a combined single limit (Bodily Injury and Property Damage combined) as follows:

Each Occurrence	\$1,000,000
Personal and Advertising Injury	\$1,000,000
Products/completed Operation Aggregate	\$2,000,000
General Aggregate	\$2,000,000

- Aggregate Limit applies per Project
- Coverage to include
 - Premises and operations
 - Personal Injury and Advertising Injury
 - Products/Completed Operations
 - Independent Contractors
 - Contractual Liability
 - Explosion, Collapse and Underground hazards

- The Commercial General Liability policy, shall name MCC as Additional Insured for claims arising out of the Contractors and/or any Subcontractors work. The ISO Forms CG 20 07 04 and CG 20 37007 04 or a comparable form that is no more restrictive shall be required. The additional Insured form MUST include the current Operations and Products/Completed Operations of each contractor. The naming of the additional insured does not obligate the additional insured to pay any premiums due.

- Aggregate limits to be on a “per project” basis.

(c) **Automobile Liability**

Covering all Owned, Non-Owned, and Hired vehicles with a Combined single limit (bodily injury and property damage combined) of \$1,000,000 each accident. The policy shall name MCC as an Additional Insured.

Certificate of Insurance

A Certificate of Insurance evidencing the above minimum requirements must be provided to and accepted by MCC **PRIOR** to commencement of any work on the contract. Each policy shall be endorsed to provide thirty (30) days prior written notice of cancellation to the MCC.

ITEM VIII

CONTRACT FOR CONSTRUCTION

THIS CONTRACT, entered into this _____ day of _____, 2023 by the County Commission of Mobile County, Mobile, Alabama, on behalf of Mobile County, Alabama, hereinafter called the Owner, Party of the First Part, and (Insert Contractor's Legal Title or Name), a corporation organized and existing under the laws of the State of Alabama, of the County of Mobile, in the State of Alabama, hereinafter called the Contractor, Party of the Second Part.

WITNESSETH: That the parties hereto do mutually agree as follows:

The Contractor shall furnish the materials and perform the work for the construction of this project, complete in place with all appurtenances, for the consideration of the unit prices set forth in the Contractor's Proposal (estimated to total _____ Dollars and _____ cents (___ \$ _____) for the various items of work and in strict and entire conformity with the provisions of the Contract, and the Advertisement and Proposal, and the Plans and Specifications (including Special Provisions, if any) prepared (or approved) and submitted by the Owner, copies of which are hereto attached, and which said Plans and Specifications and the Advertisement and the Proposal are hereby made a part of this agreement as fully and to the same effect as if the same has been set forth at length in the body of this Agreement.

The work shall be commenced within fifteen (15) days of the date specified in a work order to be issued to the Contractor by the Owner, or its authorized representative, and shall be completed within One Hundred (100) working days from and after the commencement date stipulated in said Work Order. In the event the Contractor should fail to complete the work within the time specified herein, the Contractor shall pay the Owner, as liquidated damages, the amount specified in Section 108 of the Alabama Department of Transportation Standard Specifications for Highway Construction, for each working day beyond the required date of completion.

By signing this contract, the contracting parties affirm, for the duration of the agreement, that they will not violate federal immigration law or knowingly employ, hire for employment, or continue to employ

an unauthorized alien within the State of Alabama. Furthermore, a contracting party found to be in violation of this provision shall be deemed in breach of the agreement and shall be responsible for all damages resulting therefrom.

Source of Sufficient Funds

- ☒ County Funds
☐ Grant Funds
☐ Other Funds _____

Availability of Funds

- ☒ Above funds are held by Mobile County at contract execution
☐ Above funds will become available following contract execution

IN WITNESS WHEREOF, the parties hereto have executed this Contract as of the day and year first above written.

THE MOBILE COUNTY COMMISSION OF
MOBILE COUNTY, ALABAMA

ATTEST:

By: _____

(Official Title)

Two Witnesses:

(Insert Contractor's Legal Title or Name)
(Contractor)

BY _____
(Official Title)

(INSERT CONTRACTOR ADDRESS)
(Business Address)

I, _____, certify that I am the
_____ of the Corporation named as Contractor herein, that
_____ who signed this Contract on behalf of the Contractor, was then
_____ of said Corporation; that said contract was duly signed for and in behalf
of said corporation by authority of its governing body, and is within the scope of its corporation by
authority of its corporate powers.

(Corporate Seal)

STATE OF ALABAMA
COUNTY OF MOBILE

I, the undersigned authority, a Notary Public in and for said State and County, hereby certify that

_____, whose name as _____ of

(Insert Contractor's Legal Title or Name), a corporation, is signed to the foregoing instrument, and who
is known to me, acknowledged before me on this day, that being informed of the contents of the within
instrument, he, as such officer and with full authority executed the same voluntarily and as the act of
said corporation.

Given under my hand and Official Seal this the _____ day of _____, 2023.

NOTARY PUBLIC, MOBILE COUNTY, ALABAMA

STATE OF ALABAMA
COUNTY OF MOBILE

I, _____, a Notary Public in and for said State and County, hereby certify that RANDALL DUEITT and GLENN L. HODGE, whose names as President and County Administrator, respectively, of the MOBILE COUNTY COMMISSION of MOBILE COUNTY, a body corporate and politic, are signed to the foregoing instrument and who are known to me, acknowledged before me on this day, that, being informed of the contents of the instrument, they as such officers and with full authority, executed the same voluntarily on the day the same bears date.

Given under my hand and notarial seal on this the _____ day of _____, 2023.

NOTARY PUBLIC, MOBILE COUNTY, ALABAMA

ITEM IX
GENERAL CONDITIONS

1. **SPECIFICATIONS CONCERNING CONSTRUCTION**

This project shall be constructed in accordance with the Alabama Department of Transportation Standard Specifications for Highway Construction, current non-metric edition, and any Supplemental Specifications and Special Provisions included herein.

2. **TERMINATION FOR FAILURE OF PERFORMANCE**

In the event of failure by the Contractor to perform any and all of the Contractor's obligations in a prompt and efficient manner satisfactory to the County, the County will have the right to summarily terminate this agreement. This includes all projects covered hereby. The Contractor will be given written notice of such termination, after which the County may employ contracting services of its choice to complete the project or projects under this agreement. The Contractor and its Sureties will reimburse the County any additional costs that may result from such termination and employment of other contracting services.

3. **COUNTY'S RIGHT TO PERFORM WORK**

It is understood that the County may delete any of the items listed in the project's Proposal (Section III) and the Contractor agrees to construct the remaining items at the bid price for each item.

4. **PROJECT SIGNS**

Mobile County shall construct and install standard project identification signs at locations within the project limits.

5. **THIRD PARTY BENEFICIARY**

The parties agree that in consideration of the mutual covenant set out herein, the Contractor, its subcontractors, servants, agents or employees, or any other entities consulted or hired or used by the Contractor on this Mobile County Road/Bridge Project will comply in every respect with the specifications provided by the Design Consultant to the County for all the work, labor, supplies, and materials provided by the Contractor, subcontractor, servants, agents or employees, or any other entities consulted or hired or used by the Contractor in any way with the location and/or relocation of water lines, and appurtenances operated or maintained by any "Water Authority" affected by said project as identified on the Construction Plans (hereinafter "Water Authority"), and it is further agreed that the "Water Authority" is specifically recognized as a third party beneficiary for all provisions of the Contract which pertain to the location and/or relocation of water lines and appurtenances (it being that the "Water Authority" be specifically a recognized third party beneficiary for only those portions of the contract specified herein) and, as such, this agreement will

reserve to the "Water Authority", the right to seek in a direct action any and all remedies available to it in law or in equity, or otherwise including but not limited to expressed and implied warranties, as a result of the Contractor's performance, its subcontractors', and its servants', agents', or employees performance or the performance of any other entities, consulted, hired or used by the Contractor on this Mobile County Road / Bridge Project for any work, labor or materials provided under this contract which are not in compliance with the design specifications provided by the Design Consultant selected for this project. Nothing contained in this provision shall be deemed to release or preclude Mobile County or any other third party beneficiary from asserting any claims or causes of action which they may have, independently from the "Water Authority". The parties agree by the execution of this contract that they have accepted all of the terms and conditions included herein. This provision shall be construed independently from any other clause in the contract, and if a Court of competent jurisdiction finds that any part of the contract is invalid, said finding, shall not affect the validity of this provision. The parties also agree that the "Water Authority" shall have a direct cause of action against any applicable bonds of the Contractor, subcontractor, servants, agents or employees or any other entities consulted, hired or used by the Contractor in any way, and all parties shall put any bonding entity on notice of this provision and the right of the "Water Authority" to make such a claim.

ITEM X

SPECIAL PROVISIONS

1. Water Line Relocation Work

- A. All water line work shall be in accordance with the construction specifications of the Utility Owner and the contract documents provided. It shall be the Contractor's responsibility to coordinate and verify with the Utility Owner the actual provisions that will control the work. Should provisions in the Utility Owner's specifications be more stringent than the specifications provided herein, the more stringent requirement shall govern and the work will be performed at no additional cost to Mobile County or the Utility Owner.
- B. The Contractor will, at all times, coordinate the relocation work with the Utility Owner or their designated representative. This shall specifically include providing notice to the Utility of the start of work and the work schedule. The Contractor will attend a final acceptance inspection of the relocation work with the designated representative of the Utility.
- C. The Contractor shall field locate the existing water facilities within the project limits, complete the contract work in accordance with the sequence of construction indicated by the drawings as provided, and assist the utility representative in providing the reference measurements and other information as required for the record drawings.
- D. The Utility will provide written notice of approval of the completed waterline relocation work or of any objections to the work to Mobile County prior to closeout of the project. Final approval will be determined by Mobile County.
- E. No valve or service tap is to be located under pavement without specific prior written approval of the Utility Owner.

2. Special Provision No. 23-0641 with Waterline Relocation Details is attached hereinafter:

ITEM X
SPECIAL PROVISIONS

REGULATORY REQUIREMENTS AND TAX EXEMPTIONS

DESCRIPTION OF REQUIREMENTS

- a. This project is being bid EXCLUDING TAXES and requires the Contractor to comply with applicable provisions of Section 40-9-14.1, Code of Alabama, 1975, as amended; applicable provisions of the Alabama Administrative Code; and applicable requirements of the Alabama Department of Revenue (ADOR). The Contractor and the Owner will be required to apply for Certificates of Exemption with the ADOR which will handle administration of the Certificates. The Contractor shall account for the tax savings for Base Bid and Alternates on its bid, and as otherwise may be required by the Alabama Department of Revenue during the course of the project.
- b. Base bid and all Alternate Bids *shall exclude* the cost of all required taxes including, in part, state and local sales and use taxes, and/or as otherwise may be required by the ADOR.
- c. Forms required to be completed and submitted shall be those included in the Bid and Contract Documents; those required by the ADOR; and any others as required by the Owner.
- d. The purchase of tools, equipment, and similar items, which do not become the Owner's property, are specifically excluded from the Owner's tax exemptions, and any additional exclusions as required by the ADOR's Rules and Regulations.

GENERAL PROCEDURES

- a. The provisions of this section shall take precedence over applicable portions of the Contract and Bid Documents including, in part, "Instructions to Bidders," "General Conditions of the Contract" and "Supplementary Conditions"; unaltered provisions of those documents shall remain in effect.
- b. The Contractor, subcontractors, and all material dealers are hereby made aware of the Intent of the Owner to reduce the cost of the Project by the purchase of property, materials, etc., in the manner described herein, and neither they nor the Contractor shall withhold their consent to this arrangement.
- c. Any and all administrative costs incurred by Contractors and subcontractors administering the tax savings shall be considered to be included in the Base Bid Proposal and each Alternate for the Work. No additional amount shall be added to the Contract because of the service provided by the Contractor in the purchase of property, materials, etc., as described herein, or in reporting exempt purchases to the ADOR, or otherwise complying with the reporting requirements established by the ADOR.

- d. The administration of the sales and use tax savings shall be administered as indicated herein and as otherwise required or directed by the ADOR. In the event of conflict, the requirements or directions of the ADOR shall govern.
- e. The Contractor, notwithstanding this special purchase arrangement, shall select, describe, order, obtain approvals, submit samples, coordinate, process, prepare shop drawings, pursue, receive, inspect, store, protect, insure, guarantee, warrantee, provide, and otherwise be responsible for all materials and systems, the same as if this tax savings procedure were not implemented.
- f. When necessary or required Purchase Orders shall be used only for materials for the Work of this project.
- g. The Contractor or subcontractor, as the case may be, shall be liable for any actual sales and use tax due; all assessments; and all civil penalties levied by the ADOR as a result of the failure to implement this procedure; the failure to properly report as required by the ADOR; or any unauthorized purchase or use of purchase orders.

FOR VIEWING ONLY TO BID
MUST PURCHASE TO BID

SOUTH ALABAMA UTILITIES

DATE: April 24, 2023

Special Provision No. 22-0641

EFFECTIVE DATE: October 1, 2022

SUBJECT: Water Line Relocation

Alabama Department of Transportation Standard Specifications for Highway Construction, 2022 Edition, shall be amended by replacing SECTION 641 and SECTION 863 as follows:

**SECTION 641
WATER LINE**

641.01 Description.

This Section shall cover the work of the following:

- Furnishing and installing new water pipe, water mains, water meters and boxes, valves and valve boxes, fire hydrants, and appurtenances;
- Relaying and resetting existing water pipe, water mains, water meters and boxes, valves and valve boxes, fire hydrants, and appurtenances;
- Constructing connections to existing water mains;
- Removing existing water mains and service lines.

A water service line shall be defined as a lateral line leading from a water main to the service meter assembly.

A water main shall be defined as the carrier pipe through which water is transmitted from the water source to the water service lines.

All work performed and materials used shall be in accordance with the project plans and specifications and the Utility's requirements. In the event that there is a conflict between the project plans and specifications and the Utility's requirements, the more stringent requirements shall govern.

Prior to performing any work under this Section, the existing water main and service lines shall be field located by the Contractor as set forth by the drawings and the information listed thereon shall be provided to the Utility Representative for the project. This shall be applicable to all existing water mains and service lines located within the project limits.

641.02 Materials

Materials furnished for use shall conform to the requirements of Section 863 and other appropriate Sections of Division 800, Materials.

Concrete used for thrust blocks shall be in accordance with the requirements given in Section 620.

641.03 Construction Requirements

(a) GENERAL

1. WATER PIPE

Pipe shall be laid in the presence of the Utility Representative. Pipe shall not be covered until allowed by the Utility. Pipe designated to be re-laid that is damaged or rendered unfit for

use through negligence or improper handling by the Contractor shall be replaced by the Contractor without additional compensation.

All new pipes shall be handled in such a manner as to prevent damage to the pipe and pipe lining. The interior of all pipes, valves, and fittings shall be free from dirt and debris. All material shall be stored in the appropriate manner to protect the materials from damage by freezing and subsequent handling.

The construction methods employed in the adjustment, relocation, and placement of the water pipe shall be in accordance with the current codes and practices of the Utility Company involved.

Work required for the adjustments of a water main and service line shall be performed by the Contractor in such a manner that shall limit interruption of the service for a minimum period of time. Notice shall be made by the Contractor to the Utility Customers affected by the service interruption at least 24 hours but not more than 72 hours prior to service interruption.

When ductile iron water pipe and fittings are located in potentially corrosive soil conditions, the pipe shall be wrapped in polyethylene sheath meeting AWWA C105.

When installing all water and service pipe, the Contractor shall install a 3" wide metallic detection tape (blue) and electrically continuous 12 gauge stranded tracer wire (blue insulation) with the pipe as shown by the drawings to allow visual detection and for location by electronic detection devices. For pipe installed by directional drilling methods, the locating wire shall be 10 gauge extra high strength tracer wire (minimum break load of 2,032 pounds) with 45 mil insulation covering. **Where the wire is lost during the boring operations, the pipe shall be withdrawn and reinstalled with a continuous tracer wire.** Splices shall be made using GEL nuts. Both tape and wire shall be looped through valve boxes and tied off in meter boxes in a manner acceptable to the Utility.

Valves and other controls on the existing water system shall not be operated for any purpose by the Contractor without approval and representation by the Utility.

Water mains shall be laid below existing drainage pipes, existing water lines, gas lines, and other utility lines except for sanitary sewer by deflecting pipe downward unless otherwise shown on the plans or approved by the Utility. Any deflection shall be approved by the Utility and in accordance with the pipe manufacturer's recommendations.

PVC pipe installation shall meet the requirements of ASTM D2321.

HDPE pipe installation used for the open cut installations shall meet the manufacturer's requirement for the pressure rating and required use.

2. HYDRANTS

All hydrants shall meet the requirements of AWWA C502 and traffic model design. All hydrants shall be thoroughly cleaned of dirt or foreign matter before setting. Locations of hydrants will be determined by the Utility.

Hydrants shall be located for complete accessibility and to avoid damage from vehicles and injury to pedestrians. All hydrants shall stand plumb and shall have their nozzles parallel with or at right angles to the curb.

Each hydrant shall be controlled by an independent gate valve. A drainage pit 2 feet x 2 feet x 2 feet shall be excavated below each hydrant and filled with coarse gravel or crushed stone to a depth of 6 inches above the hydrant opening. The drainage pit shall not be connected to a sewer system. The bowl of each hydrant shall be anchored as approved by the Engineer. Concrete bracing shall be provided as indicated by the drawings.

3. VALVES

All valves shall meet the requirements of AWWA C500. All valves shall close when the nut is turned clockwise. All valves shall have a non-rising stem.

Gate valves shall be plumb and shall be set and jointed to the new pipe as specified for laying pipe.

Cast iron valve boxes shall be plumb and centered over the wrench nut of the valve with the box cover flush with the finished pavement or unpaved area.

Air release valves shall be installed where shown on the plans.

4. RETAINER GLANDS

Retainer glands shall be the type shown on the plans or designated by the Utility and shall be installed in accordance with the Utility Company requirements.

5. WATER METER AND BOX RESET

The water meter box shall be adjusted carefully to the designated location and elevation. Backfill shall be tamped around each box located in the pavement area to the required density of the adjacent material. Any meter, box, or accessories lost or rendered unfit for re-use due to negligence or improper handling by the Contractor shall be replaced in kind without additional compensation.

(b) EXCAVATION AND FOUNDATION

The trench shall be excavated to the designated line and grade. The trench width shall be sufficient to permit work on the pipe and inspection of the work. Mains shall have a minimum trench width of 18 inches plus the outside diameter of the pipe with the depth sufficient to provide for foundation preparation and proper cover. Trenches shall be properly sheeted or braced wherever needed to prevent cave-in or loose soil from falling into the trench. Sides of the trenches shall be kept as near vertical as possible. Bell holes shall be excavated to insure that the pipe rests upon the bottom of the trench for its full length.

In the event that the bottom of the trench is in rock or is unsuitable material, the trench shall be excavated at a minimum of 6 inches below grade or as directed by the Utility. The trench shall then be backfilled with crushed stone as specified in Section 853 or Engineer approved material up to the proper grade elevation.

All excavated material that is not suitable for use as backfill shall be removed from the project site or otherwise properly disposed.

The trench shall be dewatered as required to prevent standing or running water, and to allow for proper installation of the water pipe.

(c) PIPE INSTALLATION

1. LAYING

The pipe shall be laid to the line and grade shown on the project plans or where a specific grade is not indicated on the plans, to the minimum depth below grade so indicated by the plans. Where a minimum depth shown on the plans controls the construction the depth shall be measured from the existing ground elevation or the finish ground elevation – the elevation that requires the lower elevation controls. Prior to installation, the pipe shall be examined to make sure that it is free of defects. Pipe shall be fitted and matched to form a smooth, uniform invert elevation continuously bearing on the excavated trench bottom. The pipe shall be installed in accordance with the pipe manufacturer's recommendations and as directed by the Engineer.

Pipes shall be lowered so as to avoid damage and unnecessary handling in the trench. The hubs and bells shall be clean when laid. The pipe shall be cleaned of debris and dirt when jointing the pipe. The ends of the pipes shall be securely closed when laying is stopped for the night to prevent animals and water from entering the pipe.

Water mains shall have a minimum cover of 48 inches as detailed above. Reaction or thrust blocking or other approved anchorage shall be provided on all mains 4 inches in diameter or larger at all wyes and tees, plugs, caps and at bends with a deflection angle equal to or greater than 22.5 degrees. Concrete for thrust blocks shall be placed against undisturbed earth.

Walking and working on or over the completed water line, except as necessary for backfilling and tamping, shall not be permitted until at least 1 foot of backfill is in place over the top of the pipe.

2. DIRECTIONAL DRILLING

High density polyethylene (HDPE) pipe shall be installed by the directional drilling method where so indicated. All work shall be done at the direction of the Engineer and the Utility Company and all materials shall meet the requirements of the Engineer and Utility Company. The water main shall be installed to the alignment and grade shown on the plans.

The Contractor shall submit to the Engineer 3 sets of the procedures and equipment proposed for the installation of the water main by directional drilling. This submittal shall be made within 14 calendar days after the date of the "Notice to Proceed". If clarifications are required, one set will be returned to the Contractor with comments for clarification. The initial submittal will be returned to the Contractor for clarification within 14 calendar days after the receipt of the initial submittal. The Contractor will be allowed 7 calendar days for each clarification of the initial submittal and the Engineer will be allowed 7 calendar days to determine if further clarification is necessary.

The Engineer will not approve the submittal of procedures and equipment proposed for the installation of the water main by directional drilling but will review the submittal for completeness.

The Contractor shall perform the construction in a manner so that the drilling fluids and cuttings are contained and not released into waterways or their tributaries. The Contractor shall handle the HDPE pipe in a manner that will not over stress the pipe at any time before, during, and after construction. A sizing pig shall be used to determine the presence of buckles, dents, out of roundness, and any other deformations. Anomalies shall not exceed 2% of the nominal pipe diameter or excessive ovality greater than 5% of the nominal pipe diameter. The Contractor shall submit an installation record drawing showing the constructed horizontal and vertical alignment of the water main at intervals not exceeding 25 feet.

(d) JOINTS

All joints shall be sealed for the entire circumference of the pipe providing an acceptable watertight joint.

The installation of rubber or other type gasket joints shall be in accordance with the pipe manufacturer's recommendations and as directed by the Utility. No joint shall be finished until the two next joints in advance have been placed. Any joint that is disturbed after jointing shall be removed, cleaned, and remade.

Where a restrained joint is required, locked mechanical joint retainer glands or restrained joint gaskets of adequate strength to prevent movement of the water main shall be used in addition to the concrete thrust block.

(e) BACKFILLING

Backfilling shall be performed immediately after inspection as directed by the Utility to secure the pipe position prior to proceeding to the next section.

The backfill material shall be carefully deposited equally on both sides of the pipe in uniform layers not to exceed 6 inches in compacted thickness. Backfill for pipe within the roadway prism shall be compacted to a density of not less than 95 percent of AASHTO T 99

maximum density. Backfill that is not under roadbeds shall be compacted as directed by the Utility to be consistent with surrounding materials.

Where roadways and other crossings are disturbed, the Contractor shall restore them to their original condition and shall replace all surface material and all paving, sidewalks, sod, or other disturbed surfaces, by furnishing all necessary new materials without extra compensation.

All pipe shall be pressure tested as noted in this Section before complete backfilling of the pipe will be permitted.

All trenches and excavations shall be backfilled with approved natural soil or, when directed by the Engineer, with select foundation backfill material.

After completing the backfill, the Contractor shall promptly remove all surplus material, rubbish, and all equipment, leaving the site and adjacent areas in a neat and presentable condition.

(f) CONNECTION TO EXISTING WATER SYSTEM

Connection to the existing water system shall be made as shown on the plans and as directed by the Utility. The connection shall be made to minimize interruption of service. The Contractor shall notify the Utility at least 48 hours prior to connecting to the existing system. Restrictions on the timing of connections and any associated interruptions in service shall be as indicated by the drawings and/or as required by the Utility. The method of connecting to the existing water lines shall be as indicated on the drawings or as approved by the Utility. Where tapping sleeves and valves are not specifically called for by the drawings or provided in the proposal for the work, the Contractor shall utilize fittings to make the connections. At the Contractor's option, the Contractor may request that the Utility allow the tie-ins be made by tapping the line. The cost for the tapping sleeve and valve shall be the responsibility of the Contractor and be provided at no cost to the Utility or the project. The request for the change shall be made to the Utility well in advance of the work beginning and must be approved by the Utility in writing.

Connections to existing mains which cause an interruption of service shall be made in such a manner that will allow the interruption in service to be as short in duration as possible. Prior to beginning the work, the Contractor shall have all materials, equipment, machinery, and labor in place to perform the tie-ins. Additionally, the Contractor shall review in detail the sequence of work necessary for the tie-ins with the Utility.

(g) CHLORINATION OF INSTALLED PIPE

Prior to pressure test, all pipe shall be thoroughly flushed with water until all entrained dirt and foreign matter have been removed before introducing the chlorinating material. The chlorinating material shall be either liquid chlorine or hypochlorite and shall provide a dosage of not less than 50 parts per million and shall be introduced into the water lines in an approved manner. The retention time shall be 24 hours and shall produce not less than 10 ppm of chlorine at the extreme ends of the lines at the end of the retention period. The line shall then be flushed with clean water until the residual chlorine is reduced to less than 1.0 ppm. During the flushing period, each valve shall be closed and opened several times.

The Contractor shall draw samples of water from each dead-end main for bacteriological examination by the Alabama Department of Public Health. All samples must gain acceptance of the Health Department. Should any sample indicate four (4) or more coliform per 100 ml, it shall be judged contaminated and corrective work shall be done.

(h) PRESSURE TESTING OF INSTALLED LINES

1. GENERAL.

Once satisfactory bacteriological test results have been obtained, all lines installed under this Section shall be pressure tested as noted in this Sub-article and in accordance with AWWA C600. The Contractor shall have the option of testing the mains and service lines under one of the following conditions:

- a. Lines uncovered.
- b. Lines partially covered with joints and valves exposed.

The cost for this work shall be included in the unit price bid for installing the water pipe.

2. TESTING.

a. Mains and Service Lines

When a section of pipe is approved by the Utility for testing, the Contractor shall furnish all materials, equipment, and labor to properly carry out the testing operation. This shall include, as a minimum, a test pump and a means of accurately measuring the volume of water necessary to maintain the required pressure during the prescribed time of testing. A recording pressure gauge shall be used during the pressure test and the charts shall be provided to the Engineer and the Utility. The Contractor shall furnish, install, and remove any temporary bulkheads, flanges, piping, fittings, and plugs, as well as corporation stops at high points in the pipe line and at the test pump, when such are necessary for the testing operation at no extra compensation.

Unless approved otherwise by the Utility, all water mains, including service lines, shall be tested. Test segments shall be 2,600 feet or less unless otherwise approved by the Utility.

After necessary joints, corporation stops, bulkheads, etc. have been installed, temporary corporation stops, if no other means can be provided, shall be placed in the high points of the pipe line and at the pumps as required, to remove air from the water system.

The test pressure shall equal 150 percent of the working pressure, but not less than 150 psi nor more than the pressure class of the pipe being tested. The minimum test period shall be six hours. However, the testing period shall be extended if the Utility finds the test results are unacceptable or if the Utility deems additional testing is necessary. If additional testing is required, there will be no additional compensation due the Contractor for the additional testing. The test shall be conducted with a test pump, pressure gauge, chart recorder, and all other equipment, fittings, connections, and pipe to be furnished by the Contractor. The test shall not begin after 12:00 noon.

To be deemed acceptable, pressure test shall show stable pressure throughout the test period. Pressure loss shall be less than 3 psi during the initial two (2) hours of the test and no more than 5 psi during the entire test duration. The test shall not begin until all indications of air trapped within the pipeline or losses due to equipment malfunction have been corrected. Once a test is deemed otherwise acceptable, the leakage during the test period will be measured and evaluated. The maximum leakage allowed shall be determined by the following formula:

$$L = S D P^{1/2} / 133200$$

L = allowable leakage in gallons/hour

S = length of pipe tested in feet

P = test pressure in psig

D = nominal diameter of the pipe in inches

The Contractor shall provide suitable means for determining the quantity of water lost by leakage under the test pressure.

The Contractor, at his expense, shall locate and repair defective joints, sections, or valves until the leakage is within the noted allowances. All observed or apparent leaks shall be repaired whether or not the leakage test results are within the requirements specified above. After the Contractor has made the necessary corrections, the main shall be retested as described above until the line passes the necessary requirements. All tests, and retests, shall be at the Contractor's expense.

(i) FINAL DRESS-UP

Upon completion of all construction of new water mains, the trench lines shall be redressed and flush with adjacent surfaces.

(j) FINAL INSPECTION AND ACCEPTANCE OF WORK

Final inspection and acceptance of work shall be made by the Utility Owner and the Engineer, upon request by the Contractor, and notice by the Engineer that work is substantially complete and approved for final inspection.

(k) GUARANTEE OF PIPE INSTALLATION AND REPAIRS

All work and/or materials furnished and/or installed on the transmission and/or distribution system shall be guaranteed for a period of one (1) year after written notice of Final Acceptance of the project by the Engineer. The Contractor shall make arrangements, in writing, with the Utility Owner as to the method in which payment will be made for cost incurred by the Owner for repairs to the facilities covered by the Contractor's guarantee.

(l) PIGGING

When the water main is 12 inches in diameter or greater, the main shall be pigged and then flushed at the scouring velocity. The cost for this work shall be included in the unit price bid for the water pipe installation.

(m) REMOVAL OF EXISTING WATER MAINS and SERVICE LINES

Where this work is called for by the plans, the existing water pipes along with all fittings and appurtenances in place, shall be located, excavated and removed. When water pipes are greater than 6 feet deep below the project finish grade (measured from the finish grade down to the top of the water pipe) and there is no conflict with proposed construction, the water pipe may remain in place. However, if the water pipe is less than 6 feet deep and remains in place, it must be filled with a Cement Mortar Flowable Backfill meeting the requirements of ALDOT Section 260, Mix 4. If the existing water pipe interferes with the proposed construction it must be removed. All excavations required to remove the water pipe shall be backfilled with approved natural soil or, when directed by the Engineer, with select borrow or foundation backfill material. Backfill for excavations within the roadway prism shall be compacted to a density of not less than 95 percent of AASHTO T 99 maximum density. Backfill that is not under roadbeds shall be compacted to be consistent with surrounding materials. Where roadways, underground utility lines, drainage pipes, and/or other crossings are disturbed by the removal work, the Contractor shall restore those items to their original condition and shall replace all existing surface materials and restore all paving, sidewalks, sod, or other disturbed surfaces.

641.04 Method of Measurement.

(a) WATER MAIN/SERVICE LINE

The actual accepted length of water main and water service line laid or re-laid will be measured in linear feet along the center of the line, complete in place. Tees, wyes, crosses, bends and fittings will not be deducted from the measurement for payment along the center of the line being laid. The actual accepted length of water main installed by directional drilling will be measured in linear feet along the center of the line, complete in place.

(b) FITTINGS

Ductile Iron Fittings will be measured by the fitting's weight in pounds. Bolts and other miscellaneous items will not be included in the measured weights. Payment will be based on the manufacturer's catalog weight of the supplied fitting. PVC and HDPE fittings, where allowed, will not be measured separately for payment.

(c) FIRE AND FLUSH HYDRANTS

Fire and flush hydrants will be measured individually as one complete unit.

(d) FIRE AND FLUSH HYDRANT RESETS

Fire and flush hydrant resets will be measured individually as one complete unit requiring removal and replacement.

(e) FIRE HYDRANT EXTENSIONS

Fire hydrant extensions will be measured in vertical feet along the vertical center of the water line.

(f) VALVES

Valves and valve box where shown on the plans, will be measured individually as one complete unit of the valve including a valve stem extension where required.

(g) CONCRETE FOR WATER MAINS

Concrete for water mains will be measured per cubic yard installed for water main plugs, supports, anchors, and thrust blocks. Payment will be based on the actual quantity placed for the appropriate base and pipe size for normal soil conditions. Larger size blocks and payment based on larger concrete dimensions may be used when approved by the Utility to accommodate poor soil conditions.

(h) RETAINER GLANDS

Retainer glands will be measured per each retainer gland required.

(i) ANCHOR TEES

Anchor tees will be measured per each anchor tee required for fire hydrant installation.

(j) TAPPING VALVE AND SLEEVE

Tapping valve and sleeves will be measured individually as one complete unit of the tapping valve and sleeve, valve stem extension where required, and valve box unit, including performing the tapping operation.

(k) SERVICE TAP AND CURB STOPS

A service tap will be measured per each tap as a unit that includes the tapping sleeve, saddle, corporation stop, and couplings. A curb stop will be measured per each stop as a unit that includes the curb stop and couplings.

(l) WATER METER AND BOX SET AND RESET

A water meter and box set and reset will be measured as the number of each set or reset as shown in the plans and shall include the water meter, meter box and cover, all connections and pipe necessary to set or to remove and reset the water meter and box.

(m) REMOVAL OF EXISTING WATER MAINS

Water main or service lines removed will not be measured under this section of the specifications; Refer to Section 206.

641.05 Basis of Payment.

(a) UNIT PRICE COVERAGE

1. GENERAL

Final acceptance of this work shall be subject to approval by the Utility Company involved. Therefore, payment for this work will not be made until the Contractor has obtained

the Owner's written approval that the work performed complies with the local codes and requirements of the Utility Company.

2. WATER MAIN

The accepted quantity of water main laid, re-laid, or installed by directional drilling shall be paid for at the contract unit price per linear foot, complete in place, which shall be payment in full for furnishing and installing pipe; including joint material, polyethylene sheathing when required, fittings for PVC and HDPE pipe, restrained joint when specified, making necessary pipe connections, pigging, flushing, testing, retesting, excavating, backfilling, and for all materials, tools, labor, equipment and incidentals necessary to complete the work.

3. WATER SERVICE LINE

The accepted quantity of water service line laid, re-laid, or installed by directional drilling will be paid for at the contract unit price per linear foot, complete in place, which shall be payment in full for furnishing and installing pipe; fittings for PVC pipe only, couplings, and joint material, excavating, backfilling, and for all materials, tools, labor, equipment and incidentals necessary to complete the work.

4. FITTINGS

Ductile iron fittings will be paid for at the contract unit price for each pound of fittings specified on the project plans and includes all labor, materials, equipment and incidentals necessary to furnish and install the size fitting required.

5. FIRE AND FLUSH HYDRANTS

Fire and flush hydrants will be paid for at the contract unit price and include all labor, materials, equipment and incidentals necessary to furnish and install one hydrant.

6. FIRE AND FLUSH HYDRANT RESET

Fire and flush hydrant resets will be paid for at the contract unit price which shall be payment for all labor, materials, equipment and incidentals necessary to reset one hydrant complete in place including excavation, backfilling, resetting the fire hydrant and all necessary connections, valves, and pipe.

7. FIRE HYDRANT EXTENSIONS

Fire hydrant extensions will be paid for at the contract unit price which shall be payment for all labor, materials, equipment and incidentals necessary to extend one fire hydrant to the required grade.

8. VALVES

Valves will be paid for at the contract unit price which shall be payment for all labor, materials, equipment and incidentals necessary to furnish and install one valve, valve stem extension where required, and valve box as appropriate for the type of valve being installed.

9. CONCRETE FOR WATER MAINS

Concrete for water mains will be paid for at the contract unit price which shall be payment for all labor, materials, equipment and incidentals necessary to furnish and place the concrete.

10. RETAINER GLAND

Retainer glands will be paid for at the contract unit price which shall be payment for all labor, materials, equipment and incidentals necessary to furnish and install one retainer gland. Retainer glands may be used in lieu of restrained joint pipe upon which payment will be for restrained joint pipe, not retainer glands.

11. ANCHOR TEE

Anchor tees will be paid for at the contract unit price which shall be payment for all labor, materials, equipment and incidentals necessary to furnish and install one anchor tee.

12. TAPPING VALVE AND SLEEVE

A tapping valve and sleeve for extending water service availability will be paid for at the contract unit price which shall be payment for all labor, materials, equipment and incidentals necessary to furnish and install one assembly of tapping valve and sleeve, valve stem extension where required, and valve box.

13. SERVICE TAP

A service tap for providing water to a user will be paid for at the contract unit price which shall be payment for all labor, materials, equipment and incidentals necessary to furnish and install one service tap including the tapping sleeve, saddle, corporation, and any related miscellaneous couplings. A curb stop will be paid for at the contract unit price which shall be payment for all labor, materials, equipment and incidentals necessary to furnish and install one service curb stop, and any related miscellaneous couplings.

14. WATER METER AND BOX SET AND RESET

Water meter and box set and reset will be paid for at the respective contract price which shall include all labor, materials, equipment and incidentals necessary to set or to remove and reset a water meter and box complete in place.

(b) PAYMENT SHALL BE MADE UNDER ITEM NO.:

641-A _____ inch _____ * Water _____ ** Laid (_____)*** - per linear foot

641-B _____ inch _____ * Water _____ ** _____ (_____) - per linear foot

641-C Ductile Iron Fittings – per pound

641-D Fire Hydrant – per each

641-E Fire Hydrant Reset – per each

641-F Fire Hydrant Extension – per foot

641-G Flush Hydrant – per each

641-H Flush Hydrant Reset – per each

641-I _____ inch Air Release Valve – per each

641-J _____ inch Gate Valve with Box – per each

641-K _____ Butterfly Valve with Box – per each

641-L Concrete for Water Mains (Thrust Blocks) – per cubic yard

641-M _____ inch Retainer Gland – per each

641-N _____ inch x _____ inch Anchor Tee – per each

641-O _____ inch x _____ inch Tapping Valve and Sleeve – per each

641-P _____ inch *****

or Connection To Existing Water Line– per each

641-Q _____ inch Water Meter and Box Set – per each
641-R _____ inch Water Meter and Box Reset – per each

*Show type of pipe: Ductile Iron (DI); PolyVinyl Chloride (PVC); Polyethylene (PE); High Density Polyethylene (HDPE); Copper.

**Designate one type: Main or Service Line.

***Designate Open Cut Installation or Directional Drilled Installation if required.

****Designate Service Tap or Curb Stop or Type Connection

SECTION 863

WATER PIPE, FIRE HYDRANTS, VALVES, AND APPURTENANCES

863.01 Ductile Iron Water Pipe

Ductile iron pipe shall meet the requirements of AWWA C151 with a minimum working pressure of 150 psi. The pipe shall have an inner cement mortar lining meeting AWWA C104 and an outer bituminous coating. The push-on joints shall meet the requirements of AWWA C111. Retrained joints shall meet the requirements of AWWA C110. Lock joint pipe shall meet the requirements of AWWA C151. The pipe length shall be a minimum of 18 feet.

863.02 Ductile Iron Fittings

Ductile iron fittings shall meet the requirements of AWWA C110, AWWA C153, or AWWA C151 when approved by the Engineer. Fittings shall have an inner cement mortar lining meeting AWWA C104 and an outer bituminous coating. Fittings shall have a minimum pressure rating equal to the adjoining pipe installed. For fittings sizes 4 inch through 12 inch, the minimum pressure rating shall be 250 psi.

863.03 Copper Water Pipe

Pipe and fittings shall meet the requirements of ASTM B88 Type K.

863.04 Poly (Vinyl Chloride) (PVC) Plastic Pipe

Pipe sizes 12 inch or greater in diameter shall meet the requirements of AWWA C900 Class 150, SDR 18 or heavier. Pipe and fittings sizes smaller than 12 inch shall meet the requirements of PVC 1120, PVC 1220, or PVC 2120 with a minimum cell classification 12454-B for ASTM D2241, SDR 21 or heavier. Pipe shall be blue in color.

Joints and gasket material shall be as recommended by the pipe manufacturer. Solvent welding of field joints shall only be allowed for pipes 1.5 inches in diameter and smaller.

863.05 Polyethylene (PE) Tubing

Pipe and fittings 2 inches and smaller shall be made of PE3408 meeting the requirements of ASTM D2239, minimum SDR 7, ASTM D3350 and AWWA C901.

863.06 High Density Polyethylene (HDPE) Pipe

HDPE pipe and bends shall meet the requirements of ASTM D1248, ASTM D3350 (PE 3408), and ASTM F714. The HDPE pipe shall be SDR 9 and be IPS with continuous blue stripe.

863.07 Gate Valves

Gate valves shall meet the requirements of AWWA C509. Gate valves shall have o-ring seals. Gate valves shall have a non-rising stem that opens counterclockwise with a 2 inch square nut. Gate valves shall have mechanical joints meeting the requirements of AWWA C-111. The disc shall be SBR coated and the valve body shall be fusion bonded epoxy inside and out. Valves shall be furnished complete with necessary gaskets, bolts, and nuts as needed for mechanical joint ends. Gate valves shall be selected from the Utilities' approved material/manufacturer list.

863.08 Butterfly Valves

Butterfly valves shall be rubber seated and meet the requirements of AWWA C504. The valve body shall meet the requirements of ASTM A126, Class B or ASTM A48, Class 40. Butterfly valves shall open counterclockwise with a 2 inch square nut. Butterfly valves shall have mechanical joints meeting the requirements of AWWA C-111. The disc shall meet the requirements of ASTM A536 or ASTM A48, Class 40. The rubber mating seat shall be stainless steel. All butterfly valves shall be provided with o-ring seals, nonadjustable stuffing boxes and shall be self-sealing or self-adjusting to allow for replacing without removing the valve or the valve shaft. Butterfly valves shall be selected from the Utilities' approved material/manufacturer list.

863.09 Valve Boxes and Stem Extensions

Valve boxes shall be cast iron and provided with all valves that are installed vertically. Valve boxes shall have a minimum diameter of 5-1/4 inches. Box covers shall be marked, "Water." Valve boxes shall be selected from the Utilities' approved material/manufacturer list. Valve stem extensions shall be provided with all valves that are greater than 3 feet below the adjacent ground surface. The extension stem shall be of the same size as the valve stem and shall be provided with a stem guide.

863.10 Tapping Valves & Sleeves

Tapping valves shall meet the requirements for gate valves as described in Section 863.07. Tapping sleeves shall be ductile iron, cement mortar lined meeting the requirements of AWWA C104, and have a bituminous exterior coat. The particular style of tapping sleeve shall be approved by the Utility.

863.11 Air Release Valves

Air release valves shall be detailed by project plans and specifications.

863.12 Corporation Stop and Curb Stops

Corporation stops shall meet the requirements of AWWA C800. Curb stops shall have full port openings. Corporation stops and curb stops shall have compression type connections and shall be selected from the Utilities' approved material/manufacturer list.

863.13 Fire Hydrants

Fire hydrants shall meet the requirements of AWWA C502. Fire hydrant shall have a minimum working pressure of 175 psig and a minimum test pressure of 300 psig. Fire hydrants shall have two each 2.5 inch nozzles and one each 4.5 inch pumper nozzle. Fire hydrants shall

have a 1.5 inch pentagon, one-piece operating nut that opens left. The fire hydrant main valve shall close with pressure. Fire hydrants shall have a 6 inch mechanical joint inlet for 42" bury. All operating parts, including the drain ring, operating nut, hold-down nut, upper valve plate, seat ring, drain lever, and nozzles shall be made of bronze. The bonnet assembly shall provide for an oil or grease reservoir and lubricating system that lubricates all stem threads and bearing surfaces each time the hydrant is operated. The reservoir shall be completely sealed from the waterway and all external contaminants by two each o-ring stem seals. Fire hydrants shall be factory pre-filled with a lubricant suitable for a working temperature range of -60°F to +150°F. Fire hydrant shall be painted and seal coated as required by the project plans.

863.14 Flush Hydrants

Flush hydrants shall be non-freezing type with one (1) 2-1/2 inch nozzle for 42 inch bury. Inlet shall be for 3-inch mechanical joint with retainer gland and have 2-1/4 inch main valve opening. Extensions, if required, shall be included in the cost of the hydrant. Fire hydrants and flush hydrants must be by the same manufacturer. Hydrant shall be painted and seal coated as required by the project plans.

FOR VIEWING ONLY
MUST PURCHASE TO BID

ITEM XI

MOBILE COUNTY
SUPPLEMENTAL SPECIFICATIONS

- 101-22 - DEFINITION OF TERMS (2/11/22)
- 102-22 PROPOSAL REQUIREMENTS AND CONDITIONS (2/11/22)
- 105-22 - CONTROL OF WORK (2/11/22)
- 107-22 - LEGAL RELATIONS AND RESPONSIBILITY TO PUBLIC (2/11/22)
- 108-22 - PROSECUTION AND PROGRESS (2/11/22)
- 109-22 - MEASUREMENT AND PAYMENT (2/11/22)
- 110-22 - CLAIMS (2/11/22)
- 111-22 DISADVANTAGED BUSINESS ENTERPRISE (DBE) (2/11/22)
- 210-22 - EXCAVATION AND EMBANKMENT (2/11/22)
- 214-22 - STRUCTURE EXCAVATION AND BACKFILL FOR DRAINAGE STRUCTURES AND MINOR STRUCTURES (2/11/22)
- 230-22 - ROADBED PROCESSING (2/11/22)
- 410-22 - BITUMINOUS PLANT MIX PAVEMENTS (2/11/22)
- 524-22 - REINFORCED CONCRETE BOX CULVERTS (2/11/22)
- 530-22 - ROADWAY PIPE CULVERTS (2/11/22)
- 533-22 - STORM SEWER PIPE (2/11/22)
- 535-22 - SIDE DRAIN PIPE (2/11/22)
- 606-22 - PIPE UNDERDRAIN (2/11/22)
- 614-22 - SLOPE PAVING (2/11/22)
- 619-22 - PIPE CULVERT END TREATMENTS (2/11/22)
- 620-22 - MINOR STRUCTURE CONCRETE (2/11/22)
- 621-22 - INLETS, JUNCTION BOXES, MANHOLES, AND MISCELLANEOUS DRAINAGE STRUCTURES (2/11/22)
- 650-22 - TOPSOIL (2/11/22)
- 652-22 - GROUND PREPARATION, VEGETATION ESTABLISHMENT AND MOWING (2/11/22)
- 665-22 - TEMPORARY SOIL EROSION AND SEDIMENT CONTROL (2/11/22)
- 701-22 - TRAFFIC STRIPE (2/11/22)
- 860-22 - ROADSIDE IMPROVEMENT MATERIALS (2/11/22)
- 1001-22 - INSTALLATION OF PIPE SUPPLIED BY OTHERS (2/11/22)
- 1002-22 - ASPHALT DRIVEWAYS (2/11/22)

Supplemental Specification No. 101-22

EFFECTIVE DATE: February 11, 2022
SUBJECT: Definition of Terms

The Alabama Department of Transportation Standard Specifications for Highway Construction, 2022 Edition, is hereby amended as follows:

SECTION 101 DEFINITION OF TERMS

101.01 Definitions.

(b) Terms.

Amend the following terms to read as shown:

Area:	Mobile County
Department:	The Mobile County Engineering Department as appointed by the Mobile County Commission for administration of Public Works Projects.
Director:	The Mobile County Engineer as appointed by the Mobile County Commission.
Region:	The Mobile County Engineering Department as appointed by the Mobile County Commission.
Region Engineer:	The Mobile County Engineer as appointed by the Mobile County Commission.
Engineer:	The Mobile County Engineer; acting directly or through the Project Engineer as his representative who is responsible for engineering supervision of the construction.
State:	Mobile County, the party of the first part to the Contract, acting by and through the County Engineer.

Supplemental Specification No. 102-22

EFFECTIVE DATE: February 11, 2022
SUBJECT: Control of Work

The Alabama Department of Transportation Standard Specifications for Highway Construction, 2022 Edition, is hereby amended as follows:

SECTION 102 PROPOSAL REQUIREMENTS AND CONDITIONS

102.06 Preparation of Proposal.

(a) Proposal Form.

Add the following as Item 3. at the end of the numbered section:

On the blank forms provided in the specifications, received from the project engineer, as part of the contract package, in its entirety.

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Supplemental Specification No. 105-22

EFFECTIVE DATE: February 11, 2022

SUBJECT: Control of Work

The Alabama Department of Transportation Standard Specifications for Highway Construction, 2022 Edition, is hereby amended as follows:

SECTION 105 CONTROL OF WORK

105.08 Construction Stakes, Lines and Grades.

(b) For Projects Not Containing Item 680-A, Geometric Controls, the Following Shall Apply:

1. Determination of Lines and Grades.

Delete the second paragraph and replace with the following:

Prior to construction, the engineer shall provide horizontal and vertical controls at centerline intervals of 50 feet or less through horizontal curves and intervals of 100 feet or less through tangent sections. The engineer shall also provide a cut sheet to the contractor.

105.13 Maintenance of the Work.

(a) General.

Add the following to the end of the first sentence in the first paragraph:

and shall maintain it in that condition for thirty (30) days after the final construction inspection.

105.12 Oversize/Overweight Vehicle Permit and Load Restrictions.

(b) Load Restrictions

Delete the sub-section as written and replace with the following:

The Contractor shall comply with all legal load restrictions in the hauling of materials on public roads beyond the limits of the project. In the hauling of materials on city streets or county roads, it shall be the responsibility of the Contractor to regulate his loads so that damage does not occur, regardless of the legal or posted load limit. Maintenance of public roads shall be as outlined in Article 104.07. A special permit will not relieve the Contractor of liability for damage which may result from the moving of material or equipment.

Within the project limits, loads shall be so regulated that damage will not occur to base or pavement layers and structures, but in no case shall loads exceed the legal load limit unless permitted in writing by the Engineer under special conditions. No loads will be permitted on base, pavement or structures before the expiration of any required curing period. The

Contractor shall be responsible for all damage by his hauling and other construction equipment within the project limits.

Gross weight {mass} tickets for loads delivered to the project will be verified by the Engineer that all loads incorporated in the project are within the legal load limit. Required information for verification will be secured at the time of delivery; however, verification of weights {masses} may be made at any time during the project.

On loads of materials not accompanied by a gross weight {mass} ticket, the Contractor shall furnish, upon request of the Engineer, the tare weight {mass} of any truck delivering such materials to the project. These truck tare weights {masses}, along with appropriate volumes and conversion factors, will be used by the Engineer in determining approximate quantities of materials which may be hauled to the project and remain within the legal load limit. If the Engineer feels that the legal load limit is being exceeded, he may order the Contractor to verify the weight {mass} of designated loads at an approved truck scale.

Payment will be made only for that portion of a load up to, and including, the legal load limit.

No payment will be made for any portion of a load exceeding the legal load limit.

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Supplemental Specification No. 107-22

EFFECTIVE DATE: February 11, 2022

SUBJECT: Legal Relations and Responsibility to Public

The Alabama Department of Transportation Standard Specifications for Highway Construction, 2022 Edition, is hereby amended as follows:

SECTION 107 LEGAL RELATIONS AND RESPONSIBILITY TO PUBLIC

107.17 Contractor's Responsibility for Work.

Add the following to the end of the first paragraph:

This does not include theft. The Contractor is responsible for protecting their work from theft, and will be responsible for repairing any damages caused by theft.

Supplemental Specification No. 108-22

EFFECTIVE DATE: February 11, 2022

SUBJECT: Prosecution and Progress

The Alabama Department of Transportation Standard Specifications for Highway Construction, 2022 Edition, is hereby amended as follows:

SECTION 108 PROSECUTION AND PROGRESS

108.04 Prosecution of Work.

(b) Soil Erosion and Stormwater Management.

1. Compliance and Progress.

Delete the first sentence of the first paragraph and replace with the following:

If the Contractor fails to comply with the requirements given in the Erosion and Sediment Control Plan (ESCP) or the directions of the Engineer, the Engineer may order the Contractor to discontinue all operations except the work involved in erosion control until the requirements are met.

3. Contractor's Stormwater Management Plan.

Delete this subarticle.

4. Fuel Tanks.

Delete this subarticle.

6. Qualified Credentialed Professionals.

Delete this subarticle.

7. Qualified Credentialed Inspectors.

Delete this subarticle.

8. Erosion and Sediment Control Crew.

Delete this subarticle.

9. Stormwater Meeting.

Delete this subarticle and replace with the following:

A Stormwater meeting shall take place after the preconstruction conference and prior to the beginning of work. This meeting shall take place at the project site. Attendees should include department construction personnel, the Contractor's superintendent and any subcontractors that will be involved in clearing, earthwork, seeding or erosion and sediment control operations. The ESCP, clearing limits and sequence of construction shall be among items discussed. Project discharge points, adjacent property and water bodies should be observed and discussed during this meeting. Any existing stormwater problems or issues should be discussed and documented.

10. Limit of Exposure Of Erodible Material.

Delete this subarticle.

108.08 Determination of Contract Time.

(d) Monthly Statement and Time Charges.

1. Contracts on a Work Day Basis.

Delete the last paragraph of the sub-section and add the following:

The monthly time statement shall be submitted to the Contractor with the monthly estimate. Upon receiving the monthly time statement, the Contractor shall review the statement and compare the time charges with his records. The Contractor shall sign the monthly time statement if he is in agreement with the days charged for the period indicated on the monthly time charge report. If the Contractor disagrees with the time charges on the monthly time statement, the Contractor shall indicate his disagreement and the reasons for the disagreement for each date in question, in writing. A current copy of the bar graph schedule of operations shall be submitted with the written statement of disagreement.

The Contractor's signed monthly time statement or the unsigned monthly time statement with the written protest and schedule of operations shall be included with the Contractor's monthly estimate. The Contractor's monthly estimate will not be processed without the above documentation.

108.11 Schedule of Liquidated Damages.

Delete the Liquidated Damages table and add the following:

Original Contract Amount		Liquidated Damages Daily Change	
More Than	To and Including	Calendar Day or Fixed Date	Work Day
\$ 0	\$ 100,000	\$ 120	\$ 200
100,000	200,000	180	300
200,000	500,000	300	500
500,000	1,000,000	480	800
1,000,000	2,000,000	660	1,100
2,000,000	5,000,000	840	1,400
5,000,000	10,000,000	1,020	1,700
10,000,000	- - - - -	1,200	2,000

Supplemental Specification No. 109-22

EFFECTIVE DATE: October 1, 2022

SUBJECT: Bituminous Materials Price Adjustment and Retainage for Construction Monthly Pay Estimates

The Alabama Department of Transportation Standard Specifications for Highway Construction, 2022 Edition, is hereby amended as follows:

SECTION 109
MEASUREMENT AND PAYMENT

109.01 Measurement of Quantities.

(h) Weight {Mass} Measurements.

Delete the sub-section as written and replace with the following:

1. General.

The term "ton" shall mean the short ton [metric ton} consisting of 2,000 pounds avoirdupois [1000 kg}.

Scales furnished by the Contractor shall meet all requirements currently adopted by Alabama Department of Agriculture pertaining to weighing or measuring devices.

Scales shall be tested and inspected by a service agent currently registered with the Alabama Department of Agriculture. The time between inspections shall not exceed six months. In addition, any time a plant is moved or substantially modified, the scales shall be inspected. The inspection report shall be uploaded to the Alabama Department of Agriculture's reporting website and a copy sent to the Area in which the scale is located. It is the Contractor's responsibility to ensure weighing devices are maintained in proper working condition during use. Devices that are found to be out of compliance

will not be used until such time corrections are made to comply with regulations and they are recertified. The Engineer will reject them for use on the project until they are recertified. Weights [Masses] above the acceptable capacity of a set of scales will not be acceptable.

2. Weight [Mass] Measure for Pay Purposes.

If material is shipped by rail, the car weight [mass] may be accepted provided that only the actual weight [mass] of material is paid for and is certified by a car weight [mass] obtained from a certified scale after the unloading. However, car weights will not be accepted for steel reinforcement, structural steel or materials that are to pass through a mixing plant.

Trucks used to haul material being paid by weight shall be measured empty daily, with the driver in the truck, to establish a daily tare weight. Each truck shall also bear a plain legible identification number.

Commercial materials, except reinforcing steel and structural steel, which are measured by weight [mass] for pay purposes shall be measured by a qualified "Weighmaster*" using acceptable weight tickets. As a minimum, the weight ticket shall contain the following:

- 1) Name of the Contractor and material producer.
- 2) Project Number and County.
- 3) Truck number.
- 4) Contract item number and item name.
- 5) Date and time of loading.
- 6) Gross, tare, and net weights.
- 7) Weighmaster's signature. (May be electronically generated).
- 8) Any additional information as required of the Contractor or material producer for participation as a Qualified Source as given in the Department's "Materials, Sources and Devices with Special Acceptance Requirements" manual unless furnished on a separate applicable BMT Certificate of Compliance.

For measurement systems capable of measuring net weight directly from the measuring hopper, the gross and tare weights will not be required. In lieu of bulk weight, the Department will accept weights of materials normally sold in bagged form (i. e. fertilizers, cement, etc.).

It shall be the sole responsibility of the Contractor to ensure that a weight {mass} ticket is delivered to the project with each load. Weight tickets will not be accepted after the truck has left the project.

*Weighmasters must be qualified in accordance with the provisions of Section 8, Chapter 16, of the Code of Alabama, 1975, or in case of material purchased out of State complying with the appropriate State laws, rules and regulations for Weighmasters of the State involved. A copy of the "Weighmaster's Certificate" shall be furnished the Engineer and additionally a copy shall be displayed in a conspicuous place in the vicinity of the measuring operations.

3. Weight {Mass} Measurement for Proportioning, etc. of Materials.

Scales used for proportioning mixtures within mixing plants shall comply with the following unless otherwise noted:

a. Asphalt Mixing Plants.

Scales shall meet current compliance regulations according to Alabama Department of Agriculture requirements and be visible to the plant inspector on the mixing

platform.

b. Concrete Mixing Plants or Units.

Scales shall meet current compliance regulations according to Alabama Department of Agriculture requirements. Separate scales shall be provided for bulk cement and for bulk fly ash, as provided in Article 815.11.

c. Base Course Mixing Plants.

Measuring equipment shall meet the requirements of Sub item b. above with separate bins for each size aggregate and separate bins and scales for additives (calcium chloride, cement, etc.).

109.07 Partial Payment.

Add the following to the end of this section:

In making partial payments, there shall be retained five (5) percent of the estimated amount of the work done and the value of materials stored on the site, and after fifty (50) percent completion (original contract plus supplemental agreements) has been accomplished, no further retainage will be withheld. The retainage above set out, shall be held until completion of all work, final acceptance by the Department as noted in Subarticle 105.15(c) and the final estimate paid.

109.08 Payment to Subcontractors.

Delete this subarticle.

109.12 Final Payment.

Add the following to this section:

(e) Semifinal Payment.

Wherever final payment is delayed or it appears that it may be delayed, due to conditions over which the Contractor has no control, a semifinal estimate may be prepared to make payment of that portion of the retainage that may be deemed appropriate by the Engineer in accordance with the following conditions:

1. No payment will be made until the Contractor has made application for such payment and has notified the Engineer of a waiver of all claims, except those previously filed prior to the date of such application and claims for adjustment to final quantities of Contract Items.
2. No payment will be made until proper notification of consent to release retainage has been received from the Contractor's Surety.
3. A non-resident contractor must provide a certified "statement of good standing" from the State Department of Revenue and appropriate County and/or City authority. This statement shall certify that the non-resident contractor has paid all taxes due and payable to the State of Alabama or any political subdivision thereof.

4. Retainage will not be released below \$5000 or 0.5% of the contract amount, whichever is the higher amount, without written approval of the Engineer. On projects with large outstanding claims by the Contractor against the County, the Engineer reserves the right at his sole discretion to increase the above amount of retainage retained or to deny the release of any retainage pending final settlement.
5. The semifinal estimate retainage shall, in addition to that noted in Item 4 above, reflect liquidated damages that may be unresolved at the time of execution.
6. No payment will be made until the Contractor submits the affidavit required in Subarticle 109.12(c) above.

Supplemental Specification No. 110-22

EFFECTIVE DATE: February 11, 2022
SUBJECT: Claims

The Alabama Department of Transportation Standard Specifications for Highway Construction, 2022 Edition, is hereby amended as follows:

SECTION 110
CLAIMS

Delete the section as written and add the section listed below:

110.01 General.

When filing a claim, the Contractor shall follow the procedures set forth in this Section.

110.02 Notice of Intent.

In any case where the Contractor deems that extra compensation is due him for additional cost not clearly covered in his contract and not ordered by the Project Engineer as extra work as defined herein, the Contractor shall notify the Project Engineer in writing signed by an Officer of the Company, with a copy to the County Engineer, of his intention to make claim for such extra compensation.

The written notice of intent shall be furnished to the Project Engineer prior to the time the contested work is started. Oral notification by the Contractor and confirmed in writing by the Contractor within three calendar days, will be accepted as complying with this requirement.

The written notice of intent shall set forth the reasons the Contractor believes additional compensation will be due, the nature of cost involved and insofar as possible the total amount of the claim.

The Contractor hereby agrees to waive any claim for additional compensation if notification, as provided in the foregoing, is not furnished or the Project Engineer is not provided facilities by the Contractor for keeping account of actual costs.

Such notice by the Contractor, and the fact that the Project Engineer has kept account of the cost as aforesaid, is not evidence of the validity of the claim. A separate determination of the validity of the claim will be made by the County.

110.03 Record Keeping.

After giving the Project Engineer and the County Engineer a notice of intent to file a claim, the Contractor shall keep daily records of all costs incurred for affected operations. These daily records shall identify each operation affected, the specific locations where work is affected, and the potential effect to the project's schedule. The Project Engineer will also keep records of all labor, material, and equipment applicable to affected operations. On Monday, or the first work day, of each week following the date of the notice of intent to file a claim, the Contractor shall provide Project Engineer with the daily records for the preceding week. If the Contractor's records indicate costs greater than those kept by the Project Engineer, the Project Engineer will meet with the Contractor and present its records to the Contractor at the meeting. The Contractor shall notify the Project Engineer in writing within three work days of any inaccuracies noted in, or disagreements with, the Project Engineer's records. The Project Engineer will review the matter, correct any inaccuracies he finds in his records, and notify the Contractor in writing of his decision.

Refusal or failure by the Contractor to attend the aforementioned meetings and present his records shall constitute a waiver by the Contractor of his claim.

To protect the integrity of the independent records maintained by the Project Engineer for comparison with those submitted by the contractor, the Project Engineer's records, other than those mentioned above, will not be made available to the Contractor until after the Project Engineer's receipt of the Contractor's complete records documenting the claim. The Project Engineer will retain possession of the records and provide copying facilities with the contractor reimbursing the Project Engineer for the expense of the copying. No amendment to the claim shall be made following receipt of the Project Engineer's records.

110.04 Claims Process.

(a) General.

After the work has been completed on the disputed item(s) of work, the Contractor shall have 90 calendar days to submit his claim. Any claim not submitted within this 90 calendar day period is waived. The Contractor shall submit six copies of the claim, containing the required documentation listed in Article 110.03, to the Project Engineer. Once the claim is received, a joint review of the claim will be made by the County Engineering Department and a written response to the Contractor will be made within 90 calendar days. If the Contractor does not agree with this decision, he may request to make a presentation to the Claims Committee. This written request submitted and signed by an Officer of the Company, along with six additional copies of the original claim, shall be made to the Project Engineer, by certified mail, within 30 calendar days from the date of the County's response. Failure to make the request within the required time period shall constitute waiver of the claim by the Contractor.

(b) Claims Committee.

The Claims Committee will be composed of three Professional Engineers employed by the County, appointed by the County Engineer. The presentation will convene at the mutual convenience of the County and the Contractor. Issues not specifically presented in the claim package acted upon by the County Engineering Department are not subject to consideration by the Claims Committee. Following the presentation, the Claims Committee will provide a written recommendation to the County Engineer. The Claims Committee's recommendation may be accepted, modified or denied by the County Engineer. If accepted, the County Engineer's decision shall be final, non-appealable, and not subject to judicial or other review except as provided in these Specifications.

If the Contractor does not accept the decision of the County Engineer, he may request to make a presentation to the Claims Appeal Board. This request shall be made in accordance with Item 110.04(c)2. below.

(c) Claims Appeal Board.

1. Composition and Appointment.

The Claims Appeal Board is a standing committee created to receive a presentation regarding a claim. The Claims Appeal Board will hear claims for additional monetary compensation, which may include a request for a time extension; however, stand-alone time extension requests will not be considered by the Board. The Board consists of three primary members who are normally appointed for two-year terms. A three-member pool of alternates will be selected from which to provide a substitute for the primary member in the event that the primary member is unable to serve at a particular time or in the event that the County Engineer declares the position vacant due to unfitness, death, illness, incapacity, conflict of interest or any other circumstance which would make service on the Board by that member impossible, difficult or nonobjective. The three primary members of the Board and three alternates are appointed in the following manner. The County Engineer appoints the primary and one alternate for one position. The Mobile County Road Builders' Association appoints the primary and one alternate for a second position. The County Engineer and the Mobile County Road Builders' Association jointly appoint the primary and one alternate for a third position. The jointly appointed primary member will be the Board Chairman. The jointly appointed alternate will be the alternate Board Chairman. At least two Board Members must be licensed Professional Engineers in the State of Alabama.

In the event that an alternate member is elevated to permanently replace a primary member of the Board, then a new alternate shall be appointed in the same manner, as was the departing alternate. Such will also be the case if an alternate position is declared vacant by the County Engineer due to death, illness, incompetence or other reasons. In the event that both the primary member and the alternate member are unable to serve or must recuse themselves due to conflict of interest, etc., on a particular claim(s) hearing, a new member of the Board will be appointed in the same manner as the primary member to sit for that particular hearing.

The County Engineer will notify the Contractor in writing of the date of the presentation and the names of the Board members. The Contractor will have ten calendar days from receipt of the letter to file with the County Engineer, by certified mail, an objection as to the composition of the Board, which specifically details the nature of the objection. The County Engineer shall have final authority in determining the composition of the Board.

Each Board member will be paid \$60 per hour for actual time spent on reviewing the plans, specifications, and claim; attending the presentation and for preparing the report to the County Engineer. This payment will cover all compensation and expenses.

2. Presentations.

The Contractor may initiate a request for a Board presentation by submission of a written notice signed by an Officer of the Company by certified mail to the County Engineer within 30 calendar days from the date of the County Engineers' decision on the recommendation of the Claims Committee. Failure to make the request within the required time period shall constitute waiver of the claim by the Contractor. The Board presentation will convene at the mutual convenience of the Board, the County, and the Contractor. Issues not specifically presented in the original claims package are waived and are not subject to consideration by the Board.

The Contractor shall pay for 50 percent of the expenses of a Board presentation. The written recommendation of the Board will be sent to the County Commission following the presentation. The Claims Appeal Board's recommendation may be accepted, modified, or denied by

the County Commission. After receiving the recommendation of the Claims Appeal Board, the County Commission has 45 calendar days to report their decision to the Contractor.

The County Commission's decision in the resolution of any claims shall be final, non-appealable and not subject to judicial or other review. The decision of the County Commission is binding upon all parties including, but not limited to, contractors, subcontractors, and third party beneficiaries. After the final ruling by the County Commission on a claim, the County Engineer shall have the Project Engineer prepare a supplemental agreement to be processed to make payment for any amount deemed payable by the County Commission.

110.05 Claim Compensation.

(a) General.

1. Compensable Items.

The liability of the County for claims will be limited to the following specifically identified compensable items:

- a. Additional job site labor expenses
- b. Additional costs for materials
- c. Additional job-site overhead
- d. An additional 10 percent of the total of Subitems a, b, and c above for home office overhead and profit
- e. Equipment costs, which shall be determined in accordance with the requirements of Item 109.04(b)4
- f. Bond costs
- g. Subcontractor costs as determined by, and limited to, those items identified as payable under Subitems a, b, c, d, e, and f above
- h. Administrative allowance, to the Prime Contractor, equal to three percent of the first \$20,000 and one percent of all over \$20,000 of the total amount for processing a claim on behalf of a subcontractor
- i. Gross receipts tax
- j. Interest that accrues after 30 calendar days from the date of the County Commission President's signature on the supplemental agreement that approves payment for a claim

2. Non-Compensable Items.

The County will have no liability for the following specifically identified non-compensable items:

- a. Profit, in excess of that provided herein
- b. Loss of anticipated profit
- c. Labor and equipment inefficiencies
- d. Home office overhead in excess of that provided herein
- e. Consequential damages, including but not limited to loss of bonding capacity, loss of bidding opportunities and insolvency.
- f. Indirect costs or expenses of any nature
- g. Attorney fees, claims preparation expenses or costs of litigation

- h. Interest prior to the final resolution of the claim as defined in Subitem 110.05(a)1.j. above

(b) Claims For Delay.

The County will have no liability for damages due to delay, beyond those items that are specially identified as compensable under Subarticle 110.05(a) above. Equipment costs, for equipment involved in a delay claim, shall be determined in accordance with the requirements for Standby Rates as provided in Item 109.04(b)4.

The County will be liable only for those delay damages caused by or arising from acts or omissions on the part of the County, which violate legal or contractual duties owed to the Contractor by the County. Such delays may constitute a basis for a claim for delay damages and/or a request for a time extension. The Contractor assumes the risk of damages from all other causes of delay.

(c) Claims for Acceleration.

The County will have no liability for any constructive acceleration unless the County gives express written direction for the Contractor to accelerate his effort beyond that required by the original contract. Any acceleration related costs will be handled as extra work as provided in Article 104.03.

110.06 Required Claim Documentation.

All claims shall be submitted in writing signed by an Officer of the Company, and shall be sufficient in detail to enable the Project Engineer and the County Engineer to ascertain the basis and the amount of each claim. All information submitted to the County under this Article will be used solely for analyzing and/or resolving the claim. As a minimum, the following information shall be provided for all claims:

- (a) A copy of the "Written Notice of Potential Claim" filed for the specific claim by the Contractor.
- (b) The date on which actions resulting in the claim occurred or conditions resulting in the claim became evident.
- (c) A detailed factual statement of the claim providing all necessary dates, locations and items of work affected by the claim.
- (d) The specific provisions of the Contract that support the claim, and a statement of the reasons why such provisions support the claim.
- (e) The amount of additional compensation sought and a breakdown of the amount into the categories specified as payable under Article 110.05, Claim Compensation.
- (f) The name, function, and activity of each County official, or employee, involved in, or knowledgeable about facts that give rise to such claim.
- (g) The name, function, and activity of each Contractor or Subcontractor official, or employee, involved in, or knowledgeable about facts that give rise to such claim.
- (h) The identification of any pertinent documents, and the substance of any material oral communication relating to such claim.
- (i) If an extension of time is also sought, the specific days for which it is sought and the basis or such request.

For delay claims, in addition to the above, a description of the operations that were delayed, the reasons for the delay and how they were delayed will be required.

110.07 Auditing of Claims.

All claims filed against the County shall be subject to audit by a Certified Public Accounting Firm employed by the County at any time following the filing of such claim. The audit may begin on ten days notice to the Contractor, Subcontractor, or Supplier. The Contractor, Subcontractor, or Supplier shall cooperate with the auditors. Failure of the Contractor, Subcontractor, or Supplier to maintain and retain sufficient records to allow the County's auditor to verify the claim shall constitute a waiver of that portion of such claim that cannot be verified and shall bar recovery there under.

Without limiting the generality of the foregoing, and as a minimum, the auditors shall have available to them the following documents:

- (a) Daily time sheets and foreman's daily reports
- (b) Union agreements, if any
- (c) Insurance, welfare, and benefits records
- (d) Payroll register
- (e) Earnings records
- (f) Payroll tax returns
- (g) Material invoices, purchase orders, and all material and supply acquisition contracts
- (h) Material cost distribution worksheet
- (i) Equipment records (list of company equipment, rates, etc.)
- (j) Vendor rental agreements, and Subcontractor invoices
- (k) Omit
- (l) Canceled checks (payroll and vendors)
- (m) Job cost report
- (n) Job payroll ledger.
- (o) General ledger, general journal, (if used) and all subsidiary ledgers and journals together with all supporting documentation pertinent to entries made in these ledgers and journals.
- (p) Cash disbursements journal.
- (q) Financial statements for all years reflecting the operations on this project.
- (r) Income tax returns for all years reflecting the operations on this project.
- (s) Depreciation records on all company equipment whether such records are maintained by the company involved, its accountant, or others.
- (t) If a source other than depreciation records is used to develop costs for the Contractor's internal purposes in establishing the actual cost of owning and operating equipment, all such other source documents.
- (u) All documents which reflect the Contractor's actual profit and overhead during the years this Project was being performed and for each of the five years prior to the commencement of this Project.
- (v) All documents related to the preparation of the Contractor's bid including the final calculations on which the bid was based.
- (w) All documents which relate to each and every claim together with all documents which support the amount of damages as to each claim.
- (x) Worksheets used to prepare the claim establishing the cost components for items of the claim including, but not limited to, labor, benefits and insurance, materials, equipment, subcontractors, and all documents, which establish the time periods, individuals involved, the hours and the rates for the individuals.

EFFECTIVE DATE: February 11, 2022
SUBJECT: Disadvantaged Business Enterprise (DBE)

The Alabama Department of Transportation Standard Specifications for Highway Construction, 2022 Edition, is hereby amended as follows:

SECTION 111
DISADVANTAGED BUSINESS ENTERPRISE (DBE)

Delete this section.

Supplemental Specification No. 210-22

EFFECTIVE DATE: February 11, 2022
SUBJECT: Borrow Excavation

The Alabama Department of Transportation Standard Specifications for Highway Construction, 2022 Edition, is hereby amended as follows:

SECTION 210
EXCAVATION AND EMBANKMENT

210.09 Method of Measurement.

(a) General.

Delete the first two (2) paragraphs and replace with the following:

Measurement for Unclassified Excavation, Channel Excavation and Muck Excavation will be either by the cubic yard of the material in its original position computed from cross sections by the average end area method or per ton as specified by the unit of measure of the pay item.

Measurement for Borrow Excavation, Borrow Excavation (Underwater Backfill) or Borrow Excavation (Underwater Embankment) will be either by the ton or by the cubic yard, loose volume of the material in the hauling vehicle at the point of use as specified by the unit measure of the pay item.

Supplemental Specification No. 214-22

EFFECTIVE DATE: February 11, 2022
SUBJECT: Payment for Structure Excavation and Foundation Backfill

The Alabama Department of Transportation Standard Specifications for Highway Construction, 2022 Edition, is hereby amended as follows:

SECTION 214
STRUCTURE EXCAVATION AND BACKFILL FOR
DRAINAGE STRUCTURES AND MINOR STRUCTURES

214.03 Construction Requirements.

(a) General.

Delete the first sentence and replace with the following:

Structure Excavation shall be of the size and depth below the structure, conforming to the outline for the structure, shown on the plans or established by the Engineer.

214.04 Method of Measurement.

(a) Structure Excavation.

1. Quantity of Excavation.

Delete the subarticle and add the following:

The quantity of structure excavation will be the number of cubic yards {cubic meters}, measured in its original position below the bottom of the structure to the depth directed by the Engineer to remove unsuitable material. The width of the backfill trench for a pipe culvert shall be defined for payment as the pipe's inside diameter plus three (3) feet. The width of the backfill trench for a box culvert shall be the width of the box culvert plus four (4) feet. This will also include the foundation backfill, utilizing existing materials, needed to bring the grade back up to the bottom of the structure. Structure Excavation does not include the excavation from the ground line to the bottom of the structure, this excavation is a subsidiary obligation of the pay items under Sections 524, 530, 533, 535, 614, 619, 620, 621, 649 and 1001.

4. Depth of Excavation.

Delete the subarticle and add the following:

The depth of excavation will be as deep as required to remove unsuitable material from the bottom of the structure to reach a suitable foundation as directed by the Engineer.

(b) Foundation Backfill.

Add the following the end of the paragraph:

The width of the backfill trench for a pipe culvert shall be defined for payment as the pipe's inside diameter plus three (3) feet. The width of the backfill trench for a box culvert shall be the width of the box culvert plus four (4) feet.

214.05 Basis of Payment.

(a) Structure Excavation.

Delete the subarticle and add the following:

Payment will be made for the number of cubic yards, measured as detailed in Section 214.04.

Payment as noted above shall be payment in full for furnishing all materials, equipment, tools, labor, pumping, bailing, and draining, and all incidentals necessary to complete the work. It

shall also include installation and removal of any cribs, cofferdams, shoring, sheeting, or other protection, and the satisfactory disposal of any excess or unsuitable material from the excavation, and the placement and compaction of local backfill or embankment of the material excavated and suitable for such use. Field raising or lowering of the structure for which the excavation is required and the extra work involved shall be considered incidental to the overall project.

(b) Foundation Backfill.

Delete the subarticle and add the following:

Foundation Backfill, Local, shall not be paid for separately. This work is a subsidiary obligation of Structure Excavation. Foundation Backfill, Commercial, shall require certified load tickets from an approved vendor for weight and material verification for full payment. Without proper documentation of Foundation Backfill, Commercial, visually acceptable material shall be paid for at 50% of the unit price for Foundation Backfill (Commercial).

FOR VIEWING ONLY
MUST PURCHASE TO BIDD

Supplemental Specification No. 230-22

EFFECTIVE DATE: February 11, 2022
SUBJECT: Roadbed Processing

The Alabama Department of Transportation Standard Specifications for Highway Construction, 2022 Edition, is hereby amended as follows:

SECTION 230 ROADBED PROCESSING

230.03 Construction Requirements.

(a) General.

Delete the subarticle and add the following:

Choice of equipment utilized to perform the work under this section shall in general be that of the contractor, provided such produces the desired results. The Engineer reserves the right to disapprove any equipment, construction method, or other operation which is detrimental to the subgrade soils and which would result in failing the improved roadbed materials. The Contractor shall be required to strictly comply with the recommendations of the Engineer and Testing Laboratory. The cost of this work shall be reflected in the appropriate pay items set forth for this project.

(b) Improved Roadbed.

1. Preparation Of Roadbed.

Delete the subarticle and add the following:

Both cuts and fills shall be graded to the elevation designated on the plans, below subgrade elevation in accordance with the requirements of section 210 and to the typical section shown on the plans or directed. No selected roadbed material shall be placed until the graded earth surface is satisfactory to grade, cross section and density. The bottom surface of the modified roadbed section shall be compacted to 100% Standard Density and proof rolled prior to placing the select granular material of the modified roadbed. The areas that fail proof rolling shall be undercut as per the directive of the Engineer. The areas of undercut shall be backfilled with a select granular material, Item 210-D, compacted to 100% Standard Density.

230.05 Basis of Payment.

(a) Unit Price Coverage.

Delete the subarticle and add the following:

Each separate layer of roadbed processed and accepted, and measured as noted above, will be paid for at the unit price bid for 100 foot roadbed stations. Said unit price bid shall be full compensation for mixing and compacting the 6 inches of existing material below the proposed base course material. This includes scarifying and windrowing as necessary to expedite drying of existing soils, mixing, remixing, watering, and re-processing as necessary to obtain and maintain the required grade, section, and density as noted in this Section. This also includes all equipment, tools, labor, and incidentals necessary to complete the work as described herein.

Supplemental Specification No. 410-22

EFFECTIVE DATE: February 11, 2022

SUBJECT: Bituminous Plant Mix Pavements

The Alabama Department of Transportation Standard Specifications for Highway Construction, 2022 Edition, is hereby amended as follows:

SECTION 410 BITUMINOUS PLANT MIX PAVEMENTS

410.03 Construction Requirements.

(f) Placing the Mixture

1. Rate of Placement.

Delete the subarticle and replace with following:

The rate of plant mix to be placed will be specified by the plans; however, this rate may require correction to adjust for the compacted mix unit weight {density} as determined in the job-mix formula design as outlined in Subarticle 410.02(b). The Engineer may direct in writing that the designated weight {mass} be increased or decreased in certain areas. It shall be the Contractor's responsibility to place and spread the material uniformly to such thickness as will produce the specified average rate, separately for each layer of base, binder, and surface, and to maintain a continuing check on tonnage {mass} and yardage {area} throughout the day's operation to insure uniform specified rate.

The unit for checking the average rate shall be approximately 5000 square yards to the nearest even truck load. If the last check performed in any day or any section of roadway is between 2000 and 5000 square yards, this section shall be classified as a unit; if less than 2000 square yards, this section shall be added to the previous unit and the revised unit rechecked. When the initial day's operation is less than 2000 square yards, this initial section will be carried over to subsequent days' operations to make a unit of approximately 5000 square yards. **On Grade, Drain, Base and Pave Projects, the unit for checking the average rate shall be approximately 1000 square yards to the nearest even truckload. If the last check performed in any day or any section of roadway is between 500 and 1000 square yards, this section shall be classified as a unit; if less than 500 square yards, this section shall be added to the previous unit and the revised unit rechecked.**

In any unit checked, the average rate shall not vary from the specified rate by more than 10 pounds per square yard for layers of 225 pounds per square yard or less, and 15 pounds per square yard for layers greater than 225 pounds per square yard. **On the first applied layer of resurfacing where there is no required milling or leveling, this tolerance is increased to 15 pounds per square yard for layers of 225 pounds per square yard or less, and 25 pounds per square yard for layers greater than 225 pounds per square yard.** This tolerance is for providing leeway in equipment adjustment only. A consistent and uncorrected variation from the specified rate, even within this tolerance, will not be allowed without the Engineer's written approval. This tolerance does not apply to patching, leveling, and widening. **On Grade, Drain, Base and Pave Projects, the average spread rate shall be based off the rate shown in the plans for the pay item. Any asphalt**

placed within 15 pounds of the specified rate will be paid at 100 percent of the unit bid price. Asphalt placed greater than 15 pounds above the specified spread rate shall be paid at 50 percent of the contract unit bid price.

If the average rate of any unit is found deficient by more than 20 pounds from the specified rate, the Engineer will determine (1) whether the Contractor shall remove and replace the deficient unit without payment for the removal or the material removed, or (2) whether the Contractor may leave the deficient unit in place and cover it with a layer of the same mix of adjusted maximum size aggregate of not less than 110 pounds per square yard average. In case (2), the surface layer shall not be feather-edged at the end of the overlay layer, but a sufficient amount of the surface beyond the ends of the deficient unit shall be removed, to a neat line across the pavement, to allow placing the full 110 pounds per square yard and to make a joint that will meet the surface requirements. There will be no payment for any portion of the overlay needed to bring the total up to the designated average rate for that unit.

If the average rate of any unit is found to exceed the above referenced tolerance, the tonnage in the unit that is in excess of the specified rate will be paid for as specified in Subarticle 410.09(a).

Unless otherwise provided in the following sections of these specifications, or shown on the plans, the average rate placed and compacted in one layer shall not exceed 350 pounds per square yard for base or binder layers, and 225 pounds per square yard for surface layers. Where the amount to be placed exceeds these limits, it shall be placed and compacted in two or more approximately equal layers or as shown on the plans.

410.05 Surface and Edge Requirements.

(a) Surfacing Smoothness Requirements.

2. Perpendicular to Centerline of Roadway.

Add the following to the end of the section:

On all County Asphalt Valley Gutter Typical Sections, the grade of the top of the valley gutter wing shall not vary more than one (1) inch horizontally or vertically from the required section measured at right angles to the pavement centerline.

3. Parallel to Centerline of Roadway.

Add the following to the end of the section:

On all County Asphalt Valley Gutter Typical Sections, the top edge of this wing shall not vary more than one (1) inch in any 25-foot section from a taut string applied parallel to the surface and roadbed centerline.

410.08 Method of Measurement.

(e) Acceptance of the Roadway Density.

Add the following to the end of the second paragraph:

The frequency of the density tests for individual road lengths less than or equal to 2,000 linear feet shall be a minimum of 2 core tests per road.

(g) Wasted and Excess Materials Applied.

Delete the subarticle and replace with following:

Deductions in measurement will be made for all material wasted or lost due to negligence of the Contractor or applied beyond the limits of the work.

Resurfacing contracts where the County purchases the mix for the Contractor to **Lay Down Only**, the Contractor shall be responsible for the reimbursement of the costs of the asphalt plant mix to the County if not constructed within the contract tolerances. This would include any additional mix that is onsite in trucks or en route to the project that cannot be utilized due to the problems associated with the Contractor's equipment or not meeting contract specifications. The asphalt plant mix costs will be reimbursed to the County by deducting this cost off the contractor's monthly pay estimate.

The Contractor shall reimburse the County for its purchase cost for the excess asphalt material as defined in Section 410.03(f)1., Section 410.09(a) and these supplemental specifications. Reimbursement shall be applied as a deduction to the Contractor's monthly pay estimate.

Supplemental Specification No. 524-22

EFFECTIVE DATE: February 11, 2022

SUBJECT: Structure Excavation and Foundation Backfill

The Alabama Department of Transportation Standard Specifications for Highway Construction, 2022 Edition, is hereby amended as follows:

SECTION 524
REINFORCED CONCRETE BOX CULVERTS

524.04 Method of Measurement.

Delete the 8th paragraph of this subarticle and replace with the following:

Structure excavation and backfill will be measured and paid for under Section 214 and the current supplemental specification thereto with the limitation that payment for foundation backfill for a bedding layer for precast concrete culverts will only be made for a thickness of 4 inches and a width of 2 feet wider than the extent of the outside walls.

Supplemental Specification No. 530-22

EFFECTIVE DATE: February 11, 2022

SUBJECT: Sealing Joints, Pipe Inspection and Structure Excavation and Backfill for Roadway Pipe

The Alabama Department of Transportation Standard Specifications for Highway Construction, 2022 Edition, is hereby amended as follows:

SECTION 530
ROADWAY PIPE CULVERTS

530.03 Construction Requirements.

(a) General.

Add item below:

8. All new roadway pipe will be illuminated between junction boxes, inlets, etc., to test the pipe for straightness (lamping). The contractor shall provide mirrors, adequate battery operated lights and other necessary equipment and personnel to make this inspection.

Upon completion of lamping, the Contractor shall video all new round roadway pipe 42" and smaller and all new arch roadway pipe 65" x 40" and smaller installed on the project. This shall be performed after completion of the installation of all roadway pipe and the installation and compaction of the base layer, or as approved by the engineer. The contractor shall give a copy of the video to the Engineer or their authorized representative for review and approval of the new roadway pipe prior to the installation of the asphalt surface. The contractor shall make arrangements for the Engineer or their authorized representative to be present to witness the lamping and the making of the video.

In the event that any imperfection in any of the new roadway pipe is discovered during the lamping or review of the video, the contractor shall correct the problem(s) promptly at his own expense. Once the contractor believes the problem(s) has been corrected, the entire section(s) of pipe (i.e. drainage structure to drainage structure) containing the imperfection(s) shall be relamped and revideoed following all of the same requirements as imposed for the original testing. This procedure shall be repeated until the pipe segment(s) are approved for acceptance by the Engineer or his authorized representative, prior to the installation of the asphalt surface. All cost incurred for correcting the problem(s) and re-testing shall be the responsibility of the contractor, and included in the unit bid price of the pipe pay item.

(d) Placing Pipe.

3. Joining Pipe.

a. Rigid Pipe (Concrete, C.I.)

Delete the second paragraph of the subarticle and replace with the following:

Joints shall be sealed with bituminous plastic cement or rubber type gaskets. Joints shall be thoroughly cleaned before being sealed and shall be sealed for the full circumference of the joint unless otherwise directed.

Add the following to the end of the third paragraph:

All joints shall be wrapped full-width with a non-woven filter fabric, equally on both sides, after being sealed.

530.04 Method of Measurement.

Delete the second paragraph of the subarticle and replace with the following:

Structure excavation and foundation backfill will be paid for as specified by the current Supplemental Specification for Section 214, if required.

530.05 Basis of Payment.

(a) UNIT PRICE COVERAGE.

Delete the following portion from the last sentence of the paragraph:

“except that Foundation Backfill and Structure Excavation shall be paid for separately.”

Replace it with the following:

except that structure excavation and backfill will be measured and paid for under Section 214 and the current supplemental specification thereto.

Supplemental Specification No. 533-22

EFFECTIVE DATE: February 11, 2022

SUBJECT: Sealing Joints, Pipe Inspection and Structure Excavation and Backfill for Storm Sewer Pipe

The Alabama Department of Transportation Standard Specifications for Highway Construction, 2022 Edition, is hereby amended as follows:

SECTION 533
STORM SEWER PIPE

533.03 Construction Requirements.

(a) General Methods.

Add the following to the end of the section:

All new storm sewer pipe will be illuminated between junction boxes, inlets, etc., to test the pipe for straightness (lamping). The contractor shall provide mirrors, adequate battery operated lights and other necessary equipment and personnel to make this inspection.

Upon completion of lamping, the Contractor shall video all new round storm sewer pipe 42” and smaller and all new arch storm sewer pipe 65” x 40” and smaller installed on the project. This shall be performed after completion of the installation of all storm sewer pipe and the installation and compaction of the base layer, or as approved by the engineer. The contractor shall give a copy of the video to the Engineer or their authorized representative for review and approval of the new storm sewer pipe prior to the installation of the asphalt surface. The contractor shall make arrangements for the Engineer or their authorized representative to be present to witness the lamping and the making of the video.

In the event that any imperfection in any of the new storm sewer pipe is discovered during the lamping or review of the video, the contractor shall correct the problem(s) promptly at his own expense. Once the contractor believes the problem(s) has been corrected, the entire section(s) of pipe (i.e. drainage structure to drainage structure) containing the imperfection(s) shall be relamped and revideoed following all of the same requirements as imposed for the original testing. This procedure shall be repeated until the pipe segment(s) are approved for acceptance by the Engineer or

their authorized representative prior to the installation of the asphalt surface. All cost incurred for correcting the problem(s) and re-testing shall be the responsibility of the contractor and included in the unit bid price for the pipe pay item.

(c) Laying Pipe.

2. Sealing Joints.

Delete the subsection and add the following:

Unless specified otherwise, joints shall be sealed as specified in Item 530.03(d)3 and any supplemental specification attached thereto for the entire circumference of the pipe. Walking or working on or over the completed pipe line, except such as is necessary for tamping or backfilling, will not be permitted until at least 1 foot of backfill is in place over the pipe.

533.04 Method of Measurement.

Delete the subsection and add the following:

Storm sewer pipe will be measured in the same manner as specified in Article 530.04. Structure excavation and foundation backfill will be paid for as specified by the current Supplemental Specification for Section 214, if required.

533.05 Basis of Payment.

(a) General.

Delete the following portion from the last sentence of the paragraph:

“except that excavation and foundation backfill will be paid for as provided in Section 214.”

Replace it with the following:

except that structure excavation and backfill will be measured and paid for under Section 214 and the current supplemental specification thereto.

Supplemental Specification No. 535-22

EFFECTIVE DATE: February 11, 2022

SUBJECT: Side Drain Pipe Joints

The Alabama Department of Transportation Standard Specifications for Highway Construction, 2022 Edition, is hereby amended as follows:

SECTION 535 SIDE DRAIN PIPE

535.03 Construction Requirements.

(a) General.

Delete the first paragraph and add the following:

Construction details for installing side drain pipe shall be as specified in Section 530 and all current Supplemental Specifications thereto attached, except as modified in this Section.

Supplemental Specification No. 606-22

EFFECTIVE DATE: February 11, 2022

SUBJECT: Pipe Underdrain Installation

The Alabama Department of Transportation Standard Specifications for Highway Construction, 2022 Edition, is hereby amended as follows:

SECTION 606 PIPE UNDERDRAIN

606.05 Basis of Payment.

(a) Unit Price Coverage.

Delete Items 1 and 2 and replace with the following:

1. The accepted footage of each kind and size of pipe underdrain will be paid for at the contract unit price for pipe underdrain, complete in place, which shall be payment in full for all excavation and its disposal, foundation preparation, backfilling, furnishing, hauling and placing of all materials including fittings, cutting for connections, joint material, bands, and filter (or cover and bedding layer materials).

2. Accepted footage of pipe underdrain complete in place at all depths below the ground line shall be paid for at the unit price bid.

Supplemental Specification No. 614-22

EFFECTIVE DATE: February 11, 2022

SUBJECT: Structure Excavation and Backfill for Slope Paving

The Alabama Department of Transportation Standard Specifications for Highway Construction, 2022 Edition, is hereby amended as follows:

SECTION 614 SLOPE PAVING

614.04 Method of Measurement.

Delete the second sentence and replace with the following:

Structure excavation and backfill will be measured and paid for under Section 214 and the current supplemental specification thereto.

Supplemental Specification No. 619-22

EFFECTIVE DATE: February 11, 2022

SUBJECT: Structure Excavation and Backfill for Pipe End Treatments

The Alabama Department of Transportation Standard Specifications for Highway Construction, 2022 Edition, is hereby amended as follows:

SECTION 619 PIPE CULVERT END TREATMENTS

619.01 Description.

Delete the second paragraph and add the following:

Unless specified otherwise on the plans or in the proposal, the Contractor shall, for the required end treatment, construct a slope paved headwall in accordance with plan details and these specifications.

619.05 Basis of Payment.

(a) Unit Price Coverage.

Delete the second sentence and add the following:

Such price shall be full compensation for the furnishing of all materials and the installation and construction thereof, necessary for the complete construction of the end treatment, and for all labor, tools, equipment, and incidentals necessary to complete the work. Structure excavation and backfill will be measured and paid for under Section 214 and the current supplemental specification thereto.

Supplemental Specification No. 620-22

EFFECTIVE DATE: February 11, 2022

SUBJECT: Unit Price to Include Structure Excavation and Backfill

The Alabama Department of Transportation Standard Specifications for Highway Construction, 2022 Edition, is hereby amended as follows:

SECTION 620 MINOR STRUCTURE CONCRETE

620.03 Construction Requirements.

(b) Excavation and Backfill.

Delete the subarticle and add the following:

Structure excavation and backfill will be measured and paid for under Section 214 and the current supplemental specification thereto.

620.04 Method of Measurement .

Delete the third paragraph and add the following:

Attention is directed to Section 502 for Reinforcing Steel. Structure excavation and backfill will be measured and paid for under Section 214 and the current supplemental specification thereto.

620.05 Basis of Payment.

(a) Unit Price Coverage.

Delete the subarticle and add the following:

The accepted Minor Structure Concrete, measured as noted above, will be paid for at the contract unit price bid which shall be full compensation for the concrete complete in place including furnishing all materials including reinforcing steel, form work, finishing and for all equipment, tools, labor and incidentals necessary to complete the item in accordance with plan details and these specifications. In case of modification to an existing structure, the breaking away of the concrete to the approximate lines shown on the plans, the disposal of the broken concrete and the preparation of the retained steel reinforcement or dowel bars for splicing as required shall be considered incidental to the work and the cost thereof absorbed in the unit price bid.

Supplemental Specification No. 621-22

EFFECTIVE DATE: February 11, 2022

SUBJECT: Payment for Units, Structure Excavation and Backfill

The Alabama Department of Transportation Standard Specifications for Highway Construction, 2022 Edition, is hereby amended as follows:

SECTION 621
INLETS, JUNCTION BOXES, MANHOLES, AND
MISCELLANEOUS DRAINAGE STRUCTURES

621.04 Method of Measurement.

(a) Inlets and Junction Boxes.

Delete the second sentence and replace with the following:

If the height of the base unit is not shown on the plans, 8 feet will be used as the height of the base unit.

(b) Manholes.

Delete the first sentence and replace with the following:

Manholes will be measured as an individual unit including footings, bottom slab, walls, cover, lid, grating, etc. of the type, size, and shape shown on the plans except that the maximum height of the base units of the structure shall be limited to 8 feet, measured from the top of the bottom slab to the top of cover, grating, or lid.

621.05 Basis of Payment.

(b) Excavation and Backfill.

Delete the subarticle and add the following:

Structure excavation and backfill will be measured and paid for under Section 214 and the current supplemental specification thereto, if required.

Supplemental Specification No. 650-22

EFFECTIVE DATE: February 11, 2022

SUBJECT: Topsoil

The Alabama Department of Transportation Standard Specifications for Highway Construction, 2022 Edition, is hereby amended as follows:

SECTION 650

TOPSOIL

650.03 Construction Requirements

Add the following:

(d) MAINTENANCE

The Contractor shall maintain the topsoil that has been placed, without extra compensation, in connection with any seeding, sodding, planting, or other work, until final completion of the project. Maintenance shall consist of preserving, protecting, and such other work as may be necessary to keep the work in a satisfactory condition.

650.04 Method of Measurement (This section shall apply to grade, drain, base & pave (GDBP) type projects only)

(A) TOPSOIL, ITEM 650-A

Delete the subarticle and add the following:

This item covers topsoil material furnished by the Contractor complete in place and will be measured in cubic yards. Cubic yards shall be computed by measuring the area (length x width) of topsoil in place and multiplying it by the designated compacted thickness (depth) as stipulated within the Construction Plan Set.

The volume of topsoil calculated above will be verified by the volume of topsoil measured in the delivery vehicle (T.B.M.) at the point of delivery on the roadbed. The total volume stated on the delivery vehicle's tickets shall be multiplied by 0.70 to account for shrinkage. The redefined quantity will be used to verify the complete in place topsoil quantity. If the total truck bed quantities with shrinkage factor applied is less than the calculated complete in place method described in the first paragraph, then this quantity will determine the final eligible quantity for payment. If the total truck bed quantities with shrinkage factor applied is more than the calculated complete in place method described in the first paragraph, then the complete in place measurement will dictate the total eligible quantity of topsoil for payment.

(B) TOPSOIL FROM STOCKPILES, ITEM 650-B

Delete the subarticle and add the following:

This item covers topsoil obtained onsite and stockpiled within the right-of-way. This material shall be measured and quantified as an in place measurement. Topsoil shall be measured for payment by measuring the area (length x width) of topsoil in place and multiplying by the designated compacted thickness (depth) as stipulated within the Construction Plan Set. The thickness of the

topsoil shall be frequently verified for plan thickness and if its determined plan thickness has not been met contractor shall add topsoil until thickness requirement is met or receive no payment for topsoil.

All of the "Topsoil from Stockpiles" (Item 650-B) shall be placed and measured for payment prior to using "Topsoil" (Item 650-A) on project.

Supplemental Specification No. 652-22

EFFECTIVE DATE: February 11, 2022

SUBJECT: Preparation and Planting in Soft Soil

The Alabama Department of Transportation Standard Specifications for Highway Construction, 2022 Edition, is hereby amended as follows:

SECTION 652 GROUND PREPARATION, VEGETATION ESTABLISHMENT AND MOWING

652.03 Construction Requirements.

(d) Preparation and Planting in Soft Soil.

2. Initial Soil Amendments.

Add the following paragraph at the beginning of the subsection:

The fertilizer and lime described below shall be applied at least one week prior to sowing seed. After application, the treated topsoil shall be watered as necessary to leach the lime and fertilizer into the topsoil composition. Watering shall be done at least one time prior to sowing seed.

Supplemental Specification No. 665-22

EFFECTIVE DATE: February 11, 2022
SUBJECT: Temporary Seeding and Mulching

The Alabama Department of Transportation Standard Specifications for Highway Construction, 2022 Edition, is hereby amended as follows:

SECTION 665 TEMPORARY SOIL EROSION AND SEDIMENT CONTROL

665.03 Construction Requirements.

(a) Erosion Control and Runoff Conveyance.

1. Temporary Seeding and Mulching.

c. Temporary Seeding and Mulching.

Delete the last sentence in the sub-section and add the following:

Seeding and mulching shall also be applied by either hydraulic or conventional methods. Mulching shall be applied at a rate of no less than 2.0 tons per acre, separately or concurrently with fertilizer.

Supplemental Specification No. 701-22

EFFECTIVE DATE: February 11, 2022
SUBJECT: Traffic Stripe

The Alabama Department of Transportation Standard Specifications for Highway Construction, 2022 Edition, is hereby amended as follows:

SECTION 701 TRAFFIC STRIPE

701.03 Construction Requirements.

(e) Class 2, Standard Thermoplastic.

Delete item 7 and replace with the following:

7. Retroreflectivity of Class 2 Thermoplastic.

The target retroreflectivity shall be 450 mcd/lux/sq m for the white stripe and 300 mcd/lux/sq m for yellow stripe.

(f) Class 2T, Thin Film Spray Applied Thermoplastic.

Delete item 7 and replace with the following:

7. Retroreflectivity of Class 2T Thermoplastic.

The target retroreflectivity shall be 250 mcd/lux/sq m for white stripe and 175 mcd/lux/sq m for yellow stripe.

(g) Class 3, TAPE.

Delete paragraphs 4 thru 9.

Supplemental Specification No. 860-22

EFFECTIVE DATE: February 11, 2022
SUBJECT: Seed

The Alabama Department of Transportation Standard Specifications for Highway Construction, 2022 Edition, is hereby amended as follows:

SECTION 860
ROADSIDE IMPROVEMENT MATERIALS

860.01 Seed.

(d) Seed Mixes.

ZONE 3 - AREAS SUBJECT TO FREQUENT MOWING

Omit table ZONE 3 - AREAS SUBJECT TO FREQUENT MOWING and replace with the following:

ZONE 3 - AREAS SUBJECT TO FREQUENT MOWING REQUIRED POUNDS PER ACRE {KILOGRAMS PER HECTARE} OF PURE LIVE SEED				
Date of Planting	Sept. 1 to Feb. 29		Mar. 1 to Aug. 31	Mar 1. to Aug. 31
Annual Ryegrass	10 {11}	25 {28}		
Hulled Bermudagrass		*	30 {33}	
Unhulled Bermudagrass	30 {34}		20 {22}	12 {13}
Annual Lespedeza (Kobe)				24 {27}
Pensacola Bahia Grass				47 {53}
Reseeding Crimson Clover	5 {6}			
Notes	1	2	3	3
Required Permanent Plant	Bermudagrass			Pensacola Bahia Grass

1. During this season Ryegrass, Bermudagrass and Clover are required where vegetation must be established within an area no further than 15 feet {3 m} from the edge of mainline pavement. (This is usually required for short duration work that is done on pavement resurfacing projects.)
2. Annual Ryegrass is required where vegetation must be established within an area that extends further than 15 feet {3 m} from the edge of mainline pavement. Seeding in stubble for the establishment of permanent vegetation is required during the following month of March.
3. Bermudagrass will be required as the permanent plant if it is not shown on the plans that Pensacola Bahia Grass will be required as the permanent plant.

Supplemental Specification No. 1001-22

EFFECTIVE DATE: February 11, 2022

SUBJECT: Installation of Pipe Supplied By Others

The Alabama Department of Transportation Standard Specifications for Highway Construction, 2022 Edition, is hereby amended as follows:

Add the following:

SECTION 1001 **INSTALLATION OF PIPE SUPPLIED BY OTHERS**

1001.01 Description.

This section shall cover the work of installing pipe, regardless of size or type, in accordance with the requirements of these specifications, at the locations shown on the plans or designated by the Engineer and in accordance with the established grades. The item shall include furnishing and construction of such joints, necessary cutting and connections to other pipes, catch basins, end walls, etc., as may be required to complete the work shown on the plans or directed by the Engineer.

1001.02 Materials.

(a) Joint Material.

Unless specified otherwise, joints shall be sealed as specified in Item 530.03(d)3 and any supplemental specification attached thereto for the entire circumference of the pipe.

1001.03 Construction Requirements.

(a) Laying Pipe.

Pipe shall be handled so that there will be no loss or damage before laying. Sections of pipe shall be laid in accordance with the requirements of the appropriate sections governing the pipe. Special reference is made to construction details of Section 530, 533 and 535 that are applicable to roadway, storm sewer and side drain pipe, respectively.

1001.04 Method of Measurement.

The pipe will be measured in the same manner as specified in Article 530.04. Structure excavation and backfill will be measured and paid for under Section 214 and the current supplemental specification thereto, if required.

1001.05 Basis of Payment.

(a) Unit Price Coverage.

The accepted footage of culvert pipe measured as noted above will be paid for at the contract unit price bid for installation of pipe supplied by others regardless of the size or type of pipe. Said unit costs shall be full compensation for the installation of the pipe in accordance with the provisions of Sections 530, 533 and 535 for Roadway Pipe, Storm Sewer Pipe and Side Drain Pipe, respectively, where applicable, including all equipment, tools, labor and incidentals necessary to complete the work.

(b) Payment Will Be Made Under Item No.:

1001-A Installation of pipe supplied by others - per linear foot

Supplemental Specification No. 1002-22

EFFECTIVE DATE: February 11, 2022

SUBJECT: Asphalt Driveways

The Alabama Department of Transportation Standard Specifications for Highway Construction, 2022 Edition, is hereby amended as follows:

Add the following:

SECTION 1002 ASPHALT DRIVEWAYS

1002.01 Description.

This section shall cover the work of constructing an asphalt driveway as shown on the plans in accordance with these specifications, and of the thickness and typical cross section shown on the plans. Lines and grades shall be as shown on the plans or established in the field by the engineer.

1002.02 Materials.

All materials furnished for use shall comply with the appropriate requirements of Division 800, Materials, and the following:

Asphalt shall meet the requirements as provided in the current ALDOT Standard Specifications or Mobile County Supplemental Specification for the asphalt mix shown in the plans. Prime shall meet the requirements as provided in Section 401. Base shall meet the requirements as provided in Section 301.

1002.03 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.

1002.04 Method of Measurement.

Measurement will be made of the number of square yards of accepted driveways, complete in place.

1002.05 Basis of Payment.

(a) Unit Price Coverage.

The accepted square yards of driveways will be paid for at the unit price for Asphalt Driveways, complete in place, which shall be payment in full for furnishing all materials, for the hauling, preparation and placing of all materials, and for all labor, equipment, tools and incidentals necessary to complete the work.

(b) PAYMENT SHALL BE MADE UNDER ITEM NO.:

1002-A Residential Asphalt Driveway, Complete In Place - per square yard

1002-B Commercial Asphalt Driveway, Complete In Place - per square yard