ADVERTISEMENT FOR BIDS

TOWN OF CROSSVILLE
7854 Highway 227 South
Crossville, AL 35962

Separate sealed BIDS for the construction of bridge replacement on County Road 825 over Baker Branch with CMP culverts including removal of old bridge and abutments, 572 tons of coarse aggregate, 53 tons of crushed aggregate, 66 tons superpave bituminous concrete wearing surface, 26 tons superpave bituminous concrete upper binder layer, 47 tons of aggregate surfacing, 80 LF of 108” diameter aluminized, Type 2, corrugated metal pipe (CMP), mobilization, traffic control, 300 tons loose riprap, 700 SY geotextile filter blanket, 2 double 108” roadway pipe concrete headwalls, 300 LF cattle fence reset, 48 CY topsoil, 200 SY erosion control blanket, erosion and sedimentation control, temporary fencing, temporary stream crossing and related items will be received by the TOWN OF CROSSVILLE at the office of the Town of Crossville, Town Hall, 7854 Highway 227 South, Crossville, AL 35962 until 10:00 A.M., CDT, Tuesday, April 4, 2023, and then at said office publicly opened and read aloud.

The CONTRACT DOCUMENTS may be examined at the following locations:

Town of Crossville, Crossville, AL
Ladd Environmental Consultants, Inc., Fort Payne, AL
Construct Connect Plan Room, 1-800-364-2059
Dodge Data & Analytics Plan Room
The Blue Book Plan Room

Copies of the CONTRACT DOCUMENTS may be obtained at the office of Ladd Environmental Consultants, Inc., located at P. O. Box 680869 (Zip 35968-1609), 1207 Chitwood Avenue, SE, Fort Payne, Alabama 35967-4822, (Phone: 256-845-5315) upon payment of a plan deposit of $50.00 for each set.

Unsuccessful bidders will be refunded 100% of the plan deposit for one set returned to the Engineer, in reusable condition, within 10 days after the bid opening. Additional sets obtained shall be refunded 50% of the plan deposit.

All non-bidders, subcontractors, vendors or dealers shall be refunded 50% of the plan deposit for each set returned to the Engineer, in reusable condition, within 10 days after the bid opening.

The plan deposit amount as indicated above is in accordance with Alabama Act No. 97-225 relating to the competitive bid laws for public works.

All Bidders must comply with the requirements of the State Licensing Board for General Contractors (Latest Edition) and with the Alabama Act No. 97-225 (Title 39, Code of Alabama, 1975 as amended) relating to competitive bid laws for public works.

All Bidders must be properly licensed in accordance with the requirements of the State Licensing Board for General Contractors (Chapter 8, Title 34, Code of Alabama, 1975 or latest).

OWNER: TOWN OF CROSSVILLE

February 27, 2023
Roger Richards, Mayor

Date

Posted of Town Hall Bulletin Board

[5193]
[REV.9/22/00]
BRIDGE REPLACEMENT ON CR-825
OVER BAKER BRANCH WITH CMP CULVERTS
FOR
TOWN OF CROSSVILLE

FINANCED BY:
ALDOT FY 2022
REBUILD ALABAMA ACT
GRANT PROGRAM

PREPARED FOR:
TOWN OF CROSSVILLE
7854 HWY. 227 SOUTH
CROSSVILLE, AL 35962

PREPARED BY:
LADD ENVIRONMENTAL CONSULTANTS, INC.
1207 CHITWOOD AVENUE, S.E.
FORT PAYNE, ALABAMA 35967

DATE: JANUARY, 2023

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P.O. BOX 680869 • FORT PAYNE, AL 35968 • 1207 CHITWOOD AVENUE S.E. • FORT PAYNE, AL 35967
PHONE: (256) 845-5315 • FAX: (256) 845-5383 • ladd@laddenv.com • www.laddenv.com
TRAFFIC CONTROL PLAN

1. INSTALL R11-3b SIGN (BRIDGE OUT 0.6 MILES AHEAD LOCAL TRAFFIC ONLY) AND TYPE III BARRICADE AT EACH END OF CR-825, VISIBLE TO TRAFFIC HEADED TOWARD BRIDGE.

2. INSTALL R11-3a SIGN (ROAD CLOSED 0.1 MILES AHEAD, LOCAL TRAFFIC ONLY) AND TYPE III BARRICADE AT EACH BRIDGE APPROACH 0.1 MILES FROM ROAD CLOSURE.

3. INSTALL R11-2 SIGN (ROAD CLOSED) AND TYPE III BARRICADE AT THE LOCATIONS SHOWN ON THE PLAN (SHEET 3). SIGN SHALL INCLUDE A TYPE B WARNING LIGHT. BARRICADE SHALL BE PLACED SO AS TO BLOCK APPROACHING TRAFFIC. COORDINATE WITH ENGINEER AND ADJACENT PROPERTY OWNERS.

4. DURING PERIODS WHERE A DANGEROUS DROP-OFF OCCURS AT THE BRIDGE, CONTRACTOR SHALL PARK EQUIPMENT ACROSS THE ROAD AND/OR INSTALL A CONSTRUCTION SAFETY FENCE ACROSS ROADWAY WHEN NOT ACTIVELY PERFORMING CONSTRUCTION ON THE SITE.

GENERAL NOTES:

1. CONTRACTORS ARE HEREBY MADE AWARE THAT THE EXISTING UTILITIES IN THE CONSTRUCTION AREA ARE NOT NECESSARILY SHOWN ON THE PLANS. DATA CONCERNING UTILITIES SHOWN SHALL BE CONSIDERED AS APPROXIMATE ONLY. CONTRACTOR SHALL COORDINATE WITH EACH UTILITY OWNER PRIOR TO COMMENCEMENT WORK TO ESTABLISH EXACT LOCATION. THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY DAMAGES TO THESE UTILITIES RESULTING FROM HIS CONSTRUCTION AT HIS ADDITIONAL COST TO THE OWNER.

2. NO CASE WILL THE OWNER OR ENGINEER BE HELD RESPONSIBLE FOR LOCATING, OR CAUSING TO BE LOCATED, EXISTING UTILITIES AS THIS IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR. SEE CONTRACT DOCUMENTS AND SPECIFICATIONS.

3. CONTRACTOR SHALL PROMPTLY NOTIFY THE ENGINEER OF ANY CONFLICTS WHICH PREVENT THE INSTALLATION OF THE PROPOSED FACILITIES AS DESIGNED. CONFLICTS SHALL BE ADDRESSED PRIOR TO THE INSTALLATION OF ANY FACILITIES AFFECTED BY THE CONFLICT.

4. THE CONTRACTOR IS RESPONSIBLE FOR REPLACING OR REPAIRING ANY DAMAGED PUBLIC OR PRIVATE PROPERTY OR FACILITIES TO THE SAME OR BETTER CONDITION AS IT EXISTED PRIOR TO THE INSTALLATION OF THE PROJECT. THE CONTRACTOR WILL COORDINATE THE REPLACEMENT/REPAIRING OF ALL SUCH ITEMS WITH THE ENGINEER AND THE FINAL INSTALLATION SHALL MEET THE APPROVAL OF THE ENGINEER.

5. CONTRACTOR TO EXERCISE EXTREME CAUTION WHILE WORKING IN THE VICINITY OF EXISTING HIGH VOLTAGE ELECTRICAL LINES.

6. EXISTING BURIED ELECTRICAL UTILITIES ARE NOT SHOWN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND PROTECTING EXISTING ELECTRICAL UTILITIES WHILE WORKING IN THE VICINITY.

7. THESE PLANS DO NOT SHOW THE ELEMENTS NECESSARY FOR JOB SITE SAFETY. THE PROVISIONS OF WHATEVER MAY BE DESIRABLE FOR JOB SITE SAFETY IS THE RESPONSIBILITY SOLELY OF THE CONTRACTOR. NEITHER THE OWNER NOR THE ENGINEER ARE RESPONSIBLE FOR PROJECT SAFETY.

8. REFER TO THE SPECIAL CONDITIONS FOR EROSION AND SEDIMENTATION CONTROL MEASURES.

9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DISPOSAL OF ALL SOIL, EXCESS EXCAVATION AND RUBBLE.

10. INSTALL FILTER CLOTH UNDER ALL RIP-RAP.

11. CONTRACTOR WILL BE RESPONSIBLE FOR REPLACING ANY PROPERTY CORNERS, IRON FILLS, CONCRETE MARKERS, ETC. WHICH ARE DESTROYED OR MOVED DURING CONSTRUCTION.

12. THE CONTRACTOR IS RESPONSIBLE FOR CLEARING ALL TREES, UNDERGROWTH, ROCKS, AND ANY OTHER OBSTRUCTION THAT HE MAY ENCOUNTER IN ORDER TO PERFORM HIS WORK.

13. THE TOWN OF CROSSVILLE HAS JURISDICTION OVER ALL ROADS ON THIS PROJECT. THE CONTRACTOR'S INSTALLATION SHALL ADHERE TO THE REQUIREMENTS OF THE TOWN.

14. NPDES STORM WATER PERMIT IS NOT REQUIRED SINCE THE PROJECT IS LESS THAN 1 ACRE OF DISTURBANCE.

15. INSTALL CONSTRUCTION SAFETY FENCE AS REQUIRED TO SECURE EXCAVATED AREAS.

16. CORRUGATED METAL PIPE SHALL BE 108" DIAMETER ALUMINIZED TYPE 2 CMP, 5 X 1, 10 GAGE (.017" LENGTHS). CONTACT BART HARTSFIELD, SENIOR SALES ENGINEER, CONTECH ENGINEERED SOLUTIONS, LLC, 205-515-5982, bart.hartsfield@conteches.com

17. PASTURE ADJACENT TO PROPOSED CULVERT IS NOT IN CURRENT USE WITH LIVESTOCK PROJECT MAY NOT REQUIRE TEMPORARY FENCING. COORDINATE WITH ENGINEER AND PROPERTY OWNER.

18. COORDINATE TEMPORARY STREAM CROSSING LOCATION WITH ENGINEER AND PROPERTY OWNER.
NOTE:
ROAD IS NOT CENTERED IN R.O.W.
BASED ON GROUND SURVEY RECONSTRUCTION.
FOR ROADWAY SEE DETAIL

REPAIR EX. FENCE
EL. 1020.72'
4' MIN
0.76%

(2) 108" DIA. ALUMINIZED TYPE
2 CMP, 5 X 1, 10 GAGE

TOPSOIL
EL. 1020.72'

GEOTEXTILE PERMEABLE
SEPARATOR ABOVE BACKFILL

GEOTEXTILE PERMEABLE
SEPARATOR UNDER BEDDING/BACKFILL

ALDOT SIZE NO. 57
COARSE AGGREGATE
BEDDING

ALDOT SIZE NO. 57
COARSE AGGREGATE
BACKFILL

SECTION
0 2.5 5'
SECTION A

EX. PAVEMENT/BASE (RETAIN)

CRUSHED AGGREGATE BASE, TYPE B PLANT MIXED, 6" THICK

SUPERPAVE BITUMINOUS CONCRETE WEARING SURFACE LAYER 1/2 MAXIMUM AGGREGATE SIZE MIX, ESAL RANGE A/B, APPROXIMATELY 220#/SY

SUPERPAVE BITUMINOUS CONCRETE UPPER BINDER LAYER 3/4 MAXIMUM AGGREGATE SIZE MIX, ESAL RANGE A/B, APPROXIMATELY 330#/SY

108" ALUMINIZED TYPE 2 CMP
5 X 10' GAGE
ALDOT NO. 57 BEDDING & BACKFILL

GEOTEXTILE PERMEABLE SEPARATOR (ALL SIDES)

SCALE 1" = 20'
PLAN

#4 CIRCUMFERENTIAL REINFORCING SPACED @ 6" APART INSIDE AND OUTSIDE FACE TOTAL OF 6 REBARS @ EACH CMP

VERTICAL & HORIZONTAL WALL REINFORCEMENT SEE SECTION

WINGWALL @ 45°

FOUNTAIN DRAIN (TYPICAL 6 REQUIRED SEE DETAIL)

INSTALL #4 @ 6" VERTICAL, #4 @ 12" HORIZONTAL EACH FACE TIE INTO TYP WALL REINFORCING TYP @ EACH CMP.

TYPICAL WINGWALL DETAIL

ELEVATION

HEADWALL DETAIL

SECTION
TYPICAL ROADWAY SECTION

NOTE:
1. DEPTH OF PAVING LAYERS ARE NOT TO SCALE.
2. EXCESS MATERIAL FROM PAVING PROCESS AND SHOULDER GRADING SHALL BE HAULED FROM SITE AND PROPERLY DISPOSED OF.
3. PROVIDE POSITIVE DRAINAGE ON ALL PAVED AREAS.
4. MATCH EXISTING PAVING CROSSSECTION WITH NEW ASPHALT UNLESS VARIATION IS REQUIRED TO PROVIDE POSITIVE DRAINAGE.
5. ROAD SHALL BE THOROUGHLY SWEEPED OF ALL DIRT AND DEBRIS PRIOR TO APPLYING TACK COAT.
6. CLIP ALL SHOULDERS PRIOR TO PAVING OPERATIONS.
7. EXCAVATION AND COMPACTION ARE SUBSIDIARY OBLIGATIONS OF ALL RELATED BID ITEMS.

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MISCELLANEOUS DETAILS
METHOD OF TAPERING PAVEMENTS
AT BEGINNING AND END OF PROJECT

NOTES:
1. THE COST OF REMOVAL AND DISPOSAL OF THE EXISTING PAVEMENT SHALL BE SUBSIDENCY OBLIGATION OF BITUMINOUS CONCRETE.
2. DETAIL APPLIES TO ALL TRANSITIONS TO EX. PAVEMENT TO REMAIN.

EX. BASE
EX. PAVEMENT
EXISTING PAVEMENT TO BE REMOVED IN ORDER TO OBTAIN FULL DEPTH OF REINFORCEMENTS AT THE BEGINNING AND END OF PROJECT.

2 MIN.

CLASS 2 RIP RAP

GEOTEXTILE FILTER BLANKET

RIP-RAP DETAIL

IN-PLACE PAVEMENT

2'-0" MINIMUM OR AS DIRECTED BY THE ENGINEER

BEGIN/END PROJECT

THICKNESS

NO SCALE

MISCELLANEOUS DETAILS
NOTES:
1. EX. AND NEW BARBED WIRE SHALL BE ATTACHED TO BOTH WOODEN POSTS.
2. EVERY 6 POSTS (6' MAX.) SHALL BE A SINGLE 6' WOOD POST, BURIED 3' WITH CONCRETE.

CATTLE FENCE DETAIL

NO SCALE
GENERAL NOTES:

1. CONSTRUCTION METHODS, PROCEDURES AND REQUIREMENTS ARE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL COMPLY WITH ALL RELEVANT MEANS OF WORK AND PROTECT THE STRUCTURAL INTEGRITY OF THE CONSTRUCTION AT ALL TIMES.

2. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS BEFORE ANY REINFORCING WORK. ALL EXISTING CONDITIONS AND DIMENSIONS SHALL BE NOTED ON THE SHOP DRAWINGS.

3. COORDINATE WITH THE CIVIL DRAWINGS AND VERIFY THE LOCATIONS AND ROOFS OF CHIMNEYS, MASTS, WINDING, WATER TOWERS, FENCES, ETC.

4. USE MANUFACTURER'S CERTIFIED DRAWINGS AND SPECIFICATIONS FOR EQUIPMENT ANCHORAGE AND DETAILS.

5. ALL CONSTRUCTION JOINTS SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE INCORPORATED INTO THE STRUCTURE. ADDITIONAL CONSTRUCTION JOINTS TO FACILITATE CONSTRUCTION MAY BE LOCATED AND DETAIL ED ON THE SHOP DRAWINGS FOR REVIEW.

6. ALL CONSTRUCTION JOINTS SHOULD BE EMBEDDED IN THE CONCRETE. UNLESS SPECIFICALLY SHOWN OR NOTED ON THE DRAWINGS.

7. ALL EXPOSED CONCRETE EDGES SHALL BE CHAMFERED, SEE DETAIL.

8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REVERING THE CIVIL DRAWINGS TO DETERMINE WHERE OPENINGS ARE REQUIRED FOR WALLS AND SUPPORTS.

9. ALL STRUCTURES, AS SHOWN, HAVE BEEN DESIGNED TO CARRY IN PLACE DECK LOADS ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SUPPORT OF ANY ADDITIONAL LOADS AND FORCES IMPOSED DURING CONSTRUCTION, TESTING, TESTING, AND HANDLING.

10. ALL SLAB AND FOOTING PLATES SHALL BE LOCATED ON THE MINIMUM THICKNESS OF COMPACTED GRADED STONE, LESS THAN OTHERWISE NOTED.

11. CONTRACTOR TO USE CAUTION WHEN EXCAVATING AROUND EXISTING STRUCTURES IN ORDER TO INSTALL NEW RETAINING WALLS. FOUNDATION WALLS TO BE SET IN FREE AIR INTERFACE WITH EXISTING STRUCTURES. COORDINATE WITH ENGINEER IN THE FIELD.

SITE & FOUNDATION NOTES:

1. STAKE ALL STRUCTURAL STEPS OF ALL TOPIC Y, ORGANIC MATERIAL, EXISTING PAVEMENT, STRUCTURES, OR ANY OTHER DELETERIOUS MATERIALS.

2. EXCAVATE, WHERE REQUIRED, TO STRIKE SUBGRADE.

3. COMPLETE THE AREA UNDER EACH STRUCTURE IN ORDER TO LOCATE ANY SOFT AREAS. THE CONTRACTOR/ENGINEER IS TO BE PRESENT DURING THE OPERATION. ANY SOFT AREAS DETECTED ARE TO BE UNDERTAKEN AND REPLACED AFTER SCHEDULED FILL.

4. FILL, WHERE REQUIRED, IS TO BE PLACED IN 1' LOOSE LIFTS AND COMPACTED TO 95% STANDARD PROCTOR (KNUF MAN), WITHIN 40% C OF OPTIMUM MOISTURE CONTENT.

5. ALL FOUNDATIONS SHALL BE ON MATERIAL CAPABLE OF SUPPORTING 4000 PSF.

REINFORCING:


2. ALL REINFORCING SHALL BE DETAIL IN ACCORDANCE WITH A.S.T.M. STANDARD 503. OF LATEST EDITION.

3. EXCEPT FOR MIDSPAN AND MIDSPAN DETAILS ON STRUCTURAL DRAWINGS, WHERE SPACES ARE NOTED OTHERWISE CONSTRUCTION, SHALL USE A 1/8" WIRE MESH OR EQUAL APPLICABLE HUBBER HUBBER WITH STRUCTURAL ENGINEER AS NECESSARY.

4. NO REINFORCING BAR SHALL BE REDUCED OR HEATED IN ANY MANNER, UNLESS SPECIFICALLY SHOWN OR NOTED ON THE DRAWINGS.

5. PROVIDE FULL EMPLOYMENT FOR ALL COVER. IF NOT OTHERWISE SPECIFIED, COVER, SIZE, AND SPACING SHALL BE THE SAME AS MAIN REINFORCING.

DESIGN CRITERIA:

1. BUILDING CODES AND STANDARDS:
   - AMERICAN CONCRETE INSTITUTE: A.S.T.M. 503
   - AMERICAN CONCRETE INSTITUTE: A.S.T.M. 503

2. STRUCTURAL ENGINEERING, AS C.

3. STANDARD BUILDING CODE, S.B.C.

4. AMERICAN METAL CONSTRUCTION, A.M.M.

INTERFACE WITH EXISTING STRUCTURE:

1. BEFORE CONSTRUCTION FOR CONTRACTOR WILL FIELD VERIFY ALL EXISTING CONDITIONS, ELEVATIONS, AND CONDITIONS. THE CONTRACTOR WILL BE NOTIFIED AND ALLOWED TO CANAL THE AS-BOUL STRUCTURE TO MODIFY DESIGN AS REQUIRED.

2. THE CONTRACTOR IS RESPONSIBLE FOR PROTECTION AND MAINTAIN THE STRUCTURAL INTEGRITY OF THE EXISTING STRUCTURE AT THE INTERFACE CONNECTIONS.

SHOP DRAWINGS:

1. ALL SHOP DRAWINGS ARE TO BE FAIRY PREPARED. ANY REINFORCING OR CONSTRUCTION DETAILS SHOWN ON THE SHOP DRAWINGS FOR USE AS ERECTION DRAWINGS, MAY NOT BE PROPOSED. SHOP DRAWING, SUBMITTED ON CONTRACTORS OWN RESPONSIBILITY. THE CONTRACTOR WILL BE REJECTED AND RETURNED WITHOUT ENDORSEMENT.

2. CONTRACTOR TO REVISE ALL SHOP DRAWING SUBMITTED AND STAMP WITH APPROVAL PRIOR TO SUBMISSION TO ENGINEER. SHOP DRAWINGS RECEIVED BY ENGINEER THAT HAVE NOT BEEN CHECKED AND COORDINATED ON THE CONTRACTOR WILL BE RETURNED WITHOUT ENDORSEMENT OF THE ENGINEER.

CONCRETE:

A. CONCRETE SCHEDULES

1. CLASS A CONCRETE

   - 28 DAY COMPRESSIVE STRENGTH

2. CONCRETE COVER OVER REINFORCING (MIN.):

   - 2" CONCRETE"

   - 2" CONCRETE EXPOSED TO EARTH OR WEATHER, OR IN VEINS EXPOSED WATER.

STEEL ARRANGEMENT, INTERSECTIONS, AND ENDS

SCALE: 1" = 1'

NOTE: CHAMFER ALL EXPOSED CORNERS OF CONCRETE.

STANDARD CONCRETE CHAMFER DETAIL

(TYPICAL FOR ALL EXPOSED CORNERS)

NO SCALE

SPlice BAR, SAME END & SPACINGS AS Horizontal WALL STEEL

NORMAL WALL STEEL

REINFORCING STEEL IN BOTH FACES

STRUCTURAL DETAILS
NOTES:
1. CONTRACTOR MAY USE ANY SUITABLE MEANS AND DRAINAGE STRUCTURE TO PROVIDE TEMPORARY ACCESS WHILE ROAD IS IMPASSABLE FOR PROPERTY OWNER ACCESS WITH PICKUP TRUCK AND TRACTOR. PREVIOUSLY USED PIPES AND/OR OTHER OPTIONS ARE ACCEPTABLE.
2. IF RIP RAP IS REQUIRED TO STABILIZE UPSTREAM SIDE OF TEMPORARY CROSSING, IT WILL BE PAID AS A SEPARATE ITEM PER TON.
3. MINIMUM TOP WIDTH OF 10' REQD.
4. REMOVE AFTER RESTORING ACCESS ON CR-825.

TEMPORARY CREEK CROSSING

NOTES:
1. TEMPORARY FENCE TO BE USED WHEN DIRECTED BY ENGINEER TO CONTAIN LIVESTOCK IN ADJACENT PASTURE TO PROJECT.
2. COORDINATE WITH ENGINEER AND PROPERTY OWNER.
3. CONNECT TEMPORARY FENCE TO EXISTING FENCE FOR CORNER BRACING.
4. TEMPORARY FENCE SHALL BE SUFFICIENT TO CONTAIN LIVESTOCK DURING CONSTRUCTION.
5. REMOVE AFTER COMPLETION OF REPLACEMENT FENCE ALONG CR-825.