

# BID ADDENDUM NO. 1

City of Auburn, Maine  
Fish Hatchery Road Culvert Replacement  
January 31, 2022

Notice is hereby given that Addendum No. 1 provides further clarification for questions asked by Bidders during and after the Pre-Bid meeting held on January 25, 2022 and includes the registered bidders list. Bidders are instructed to acknowledge receipt of this Addendum by inserting its number and date in the "Acknowledgement of Bid Amendments".

## **Questions:**

1. Is the pre-bid meeting mandatory?  
Answer: No
  
2. Can the materials excavated from the site be disposed of at a City property?  
Answer: The City does not have any land available for material disposal. The Contractor will be responsible for legally disposing of unsuitable material.
  
3. Do you have a specified membrane waterproofing per Box Culvert Note #2 on plan sheet C-006?  
Answer: Refer to the Maine DOT's Qualified Products List for acceptable waterproofing membrane products.
  
4. What, if any, permits are required beyond the Army Corps permit? And, if additional permits are required by the City of Auburn, will the fees be waived?  
Answer: No additional permits are required.
  
5. Can you provide addition guidance on the proposed excavation limits and dewatering? Specifically, can you provide a maximum excavation depth in order to have a shoring contractor provide accurate pricing for design and construction?  
Answer: Please refer to the Geotechnical Report in Attachment B that indicates peat and organics were identified 8 to 10 feet below grade. All peats and organics must be removed from below the culvert footprint prior to installation of the culvert.
  
6. Just looking for some clarification on exactly what the road treatment should be over the box culvert. Are we still looking for 3" of HMA like the rest of the road or greater? The profile on page C-003 makes me think otherwise.  
Answer: A minimum 2.0" base course followed by 1.5" surface course is required over the box culvert. Base course shall be thicker as required to provide minimum slopes over the box. Please refer to the re-issued Sheet C-006 for revision to the surface course thickness.
  
7. On C-005 you have provided a detail for temporary frame and fabric cofferdams and would require a stamped engineered design. Can contractors install a sandbag cofferdam alternate without an engineered stamp?  
Answer: Yes, alternative cofferdam methods are acceptable.
  
8. The plans show 2" of 12.5mm and 1" 12.5mm surface. Can you verify with the City the type of mix and thickness. 12.5mm surface cannot be put down 1" thick, we typically use 1.5" min. with 12.5mm. Please advise on this.  
Answer: Please refer to the re-issued Sheet C-006 for revision to the surface course thickness, specifying 1.5" thick 12.5mm surface course.
  
9. "Cofferdam detail shown for reference purposes. Contractor shall provide design for temporary cofferdams. Stamped by a Professional engineer in the State of Maine". So this is on me to get a stamped design for these dams before I even have the job? In order to come up with a accurate estimate to submit bid. Has your company had a cofferdam design done for this specific job yet?  
Answer: Cofferdam design is the responsibility of the contractor, however, alternative cofferdam materials or methods that do not require stamped design may be acceptable.

10. In the Standard Conditions #F-19, Geotechnical Considerations it states "The Contractor shall comply with all requirements and recommendations of the Explorations and Geotechnical Engineering Services Report...attached in Appendix B". Does this mean that sheet piling will be required for sidewall protection as stated in Section 4.1 bullet pt #3 & Section 4.3 in the 3rd paragraph?

Answer: Support of excavation materials and method is the responsibility of the Contractor.

11. Is the City going to employ a construction materials testing and quality assurance Subcontractor/Engineer to observe compliance with the design and complete compaction testing? If so, and a company has already been hired can you identify the Company? If so, are any of the testing costs to be borne by the Contractor?

Answer: Yes, City will provide an independent contractor (John Turner) to conduct material testing related to compaction of backfill material around the culvert. Contractor will be responsible for coordinating with the City on the scheduling of material testing. Cost for material testing of the compacted backfill material will be borne by the City.

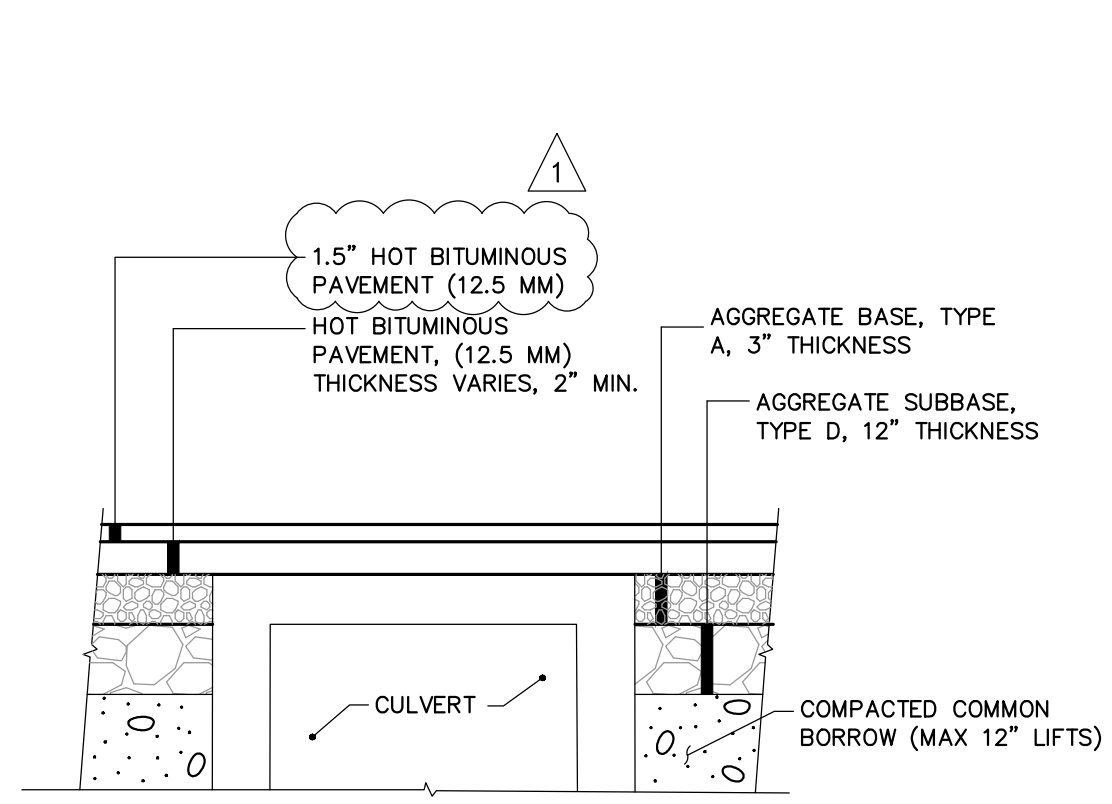
**Drawings:** The following new Drawing(s) are herewith added, have an issue date of January 31, 2022 and designated as Addendum No. 1.

Revised sheets included:

- Sheet C-006 – Project Details

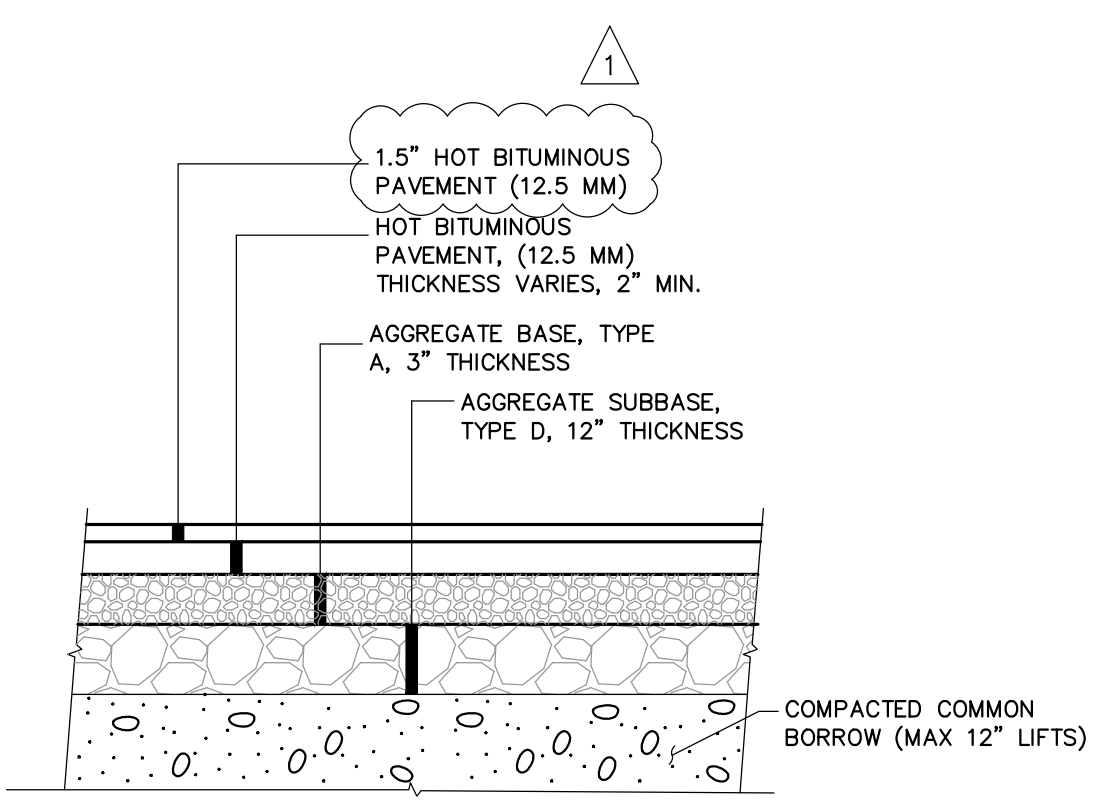
**Attachments:** The following items are being provide for bidder reference:

- Registered Plan Holder List
- Pre-Bid Meeting Presentation

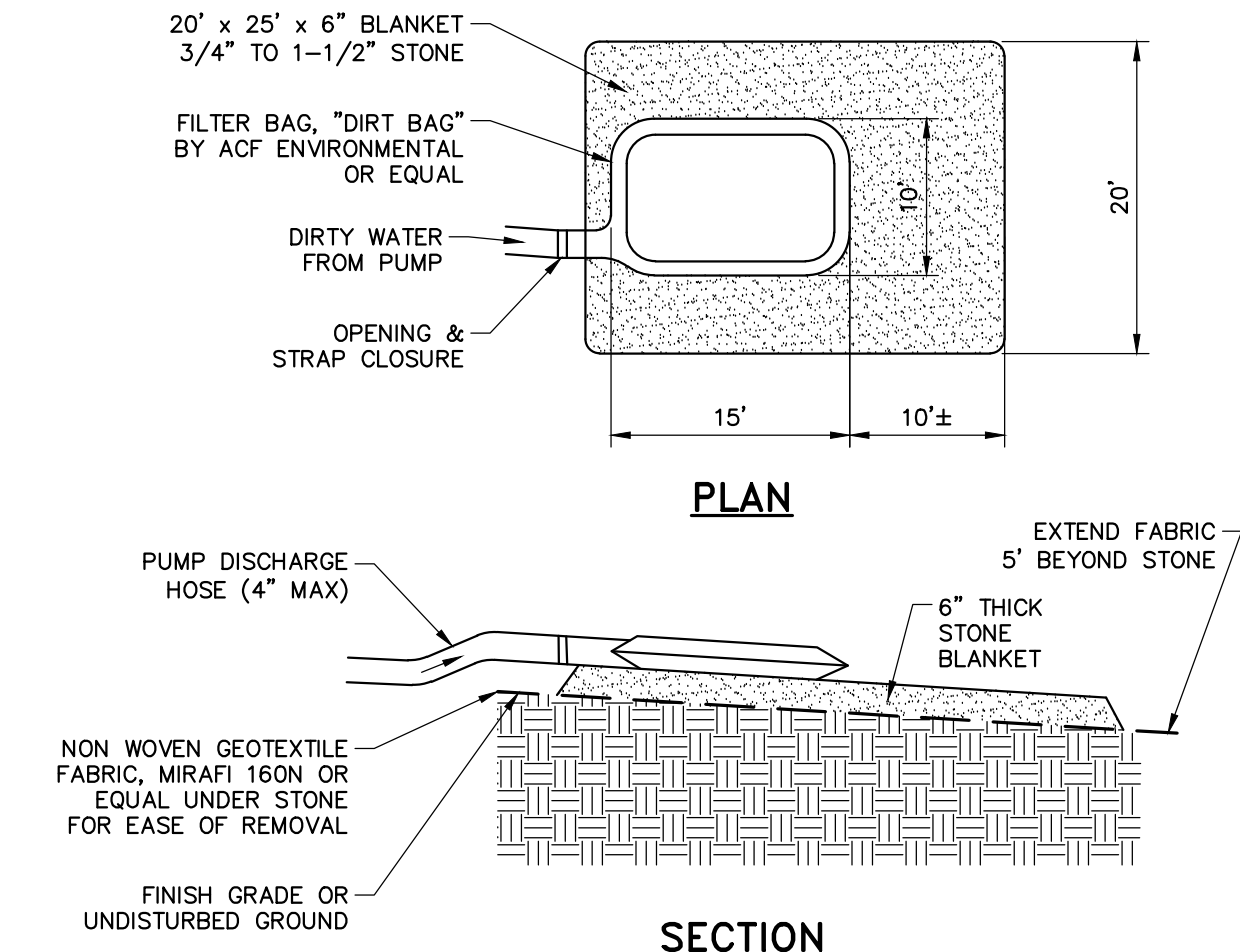


NOTE:  
1. AGGREGATE TYPES PER MDOT STANDARD SPECIFICATIONS SECTION 304.02.

**BITUMINOUS PAVEMENT SECTION (OVER CULVERT)**  
N.T.S.

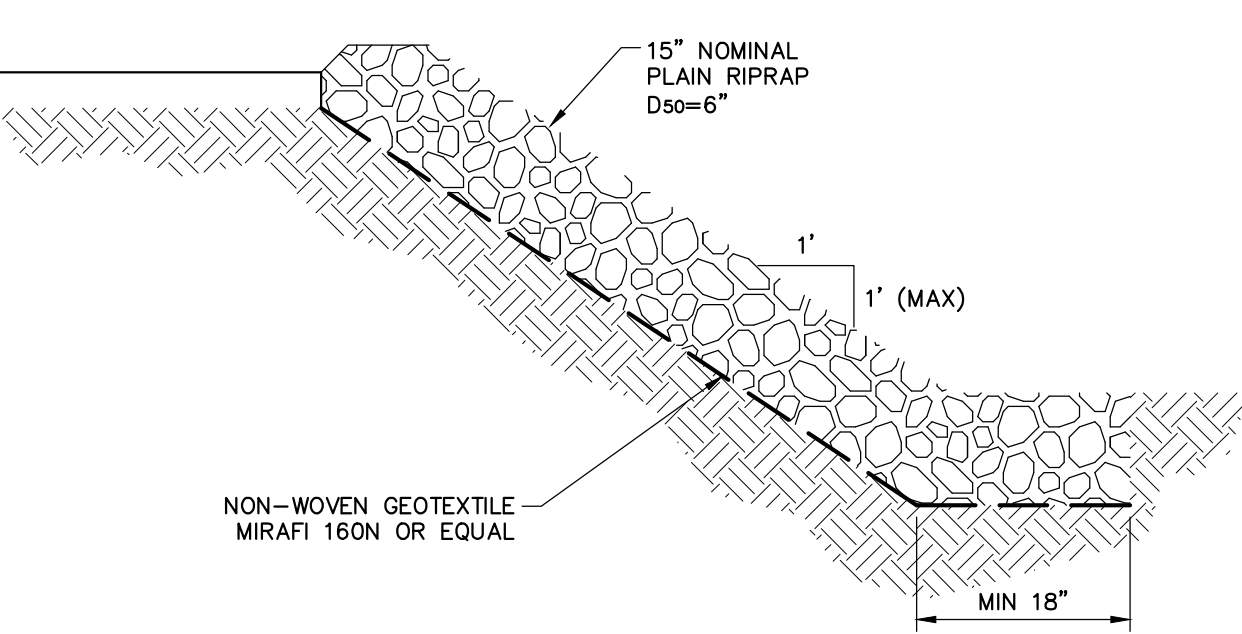


**BITUMINOUS PAVEMENT SECTION (BEYOND CULVERT)**  
N.T.S.



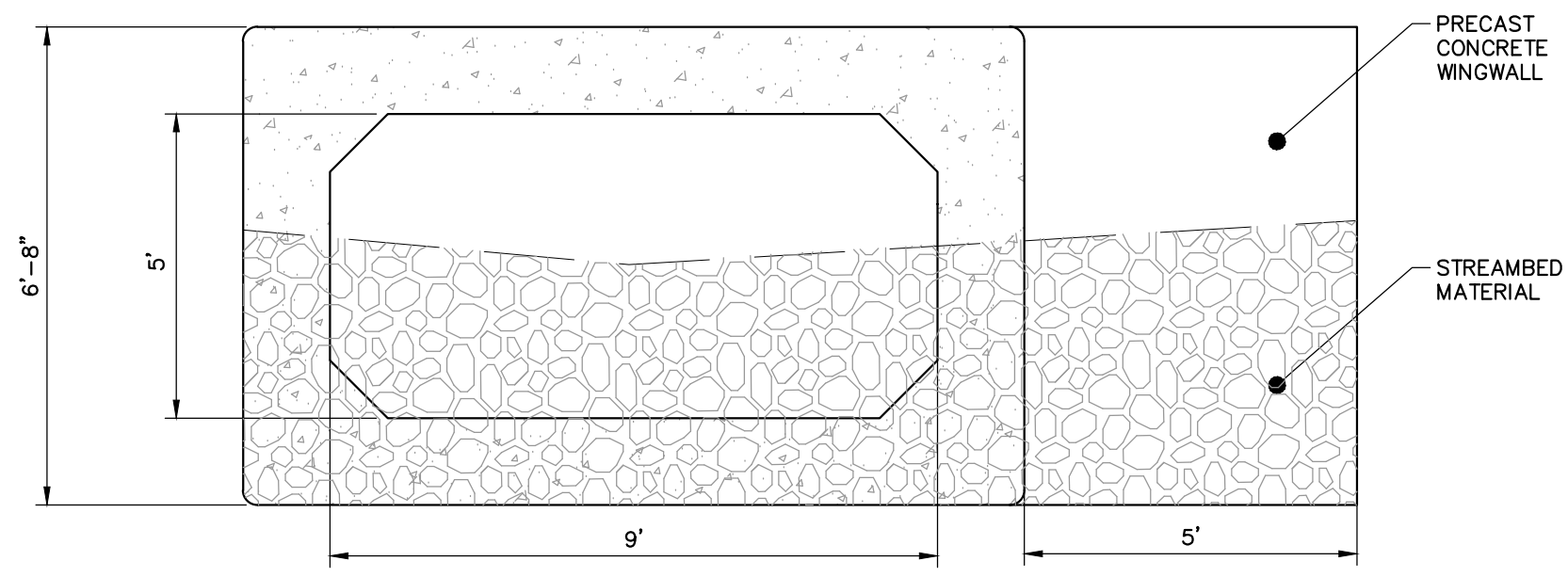
**DEWATERING DISCHARGE SEDIMENT CONTROL DEVICE**  
N.T.S.

- DEWATERING NOTES:**
1. LOCATE DISCHARGE SITE ON FLAT UPLAND AREAS AS FAR AWAY AS POSSIBLE FROM STREAMS, WETLANDS, OTHER RESOURCES AND POINTS OF CONCENTRATED FLOW.
  2. NEVER DISCHARGE TO AREAS THAT ARE BARE OR NEWLY VEGETATED.
  3. DIRT BAG MATERIAL BASED ON PARTICLE SIZE IN DIRTY WATER, I.E., FOR COARSE PARTICLES A WOVEN MATERIAL; FOR SILTS/CLAYS A NON-WOVEN MATERIAL.
  4. DO NOT OVER PRESSURIZE DIRT BAG OR USE BEYOND CAPACITY.
  5. CHANNELS DUG FOR DISCHARGING WATER FROM THE EXCAVATED AREA NEED TO BE STABLE. IF FLOW VELOCITIES CAUSE EROSION WITHIN THE CHANNEL THEN A DITCH LINING SHOULD BE USED.
  6. BUCKETED WATER SHOULD BE DISCHARGED IN A STABLE MANNER TO THE SEDIMENT REMOVAL AREA. A SPLASH PAD OF RIPRAP UNDERLAIN WITH GEOTEXTILE MAY BE NECESSARY TO PREVENT SCOURING OF SOIL.
  7. DEWATERING IN PERIODS OF INTENSE, HEAVY RAIN, WHEN THE INFILTRATIVE CAPACITY OF THE SOIL IS EXCEEDED, SHOULD BE AVOIDED.
  8. INSTALL DIVERSION DITCHES OR BERMS TO MINIMIZE THE AMOUNT OF CLEAN STORMWATER RUNOFF ALLOWED INTO THE EXCAVATED AREA.
  9. DURING THE ACTIVE DEWATERING PROCESS, INSPECTION OF THE DEWATERING FACILITY SHOULD BE REVIEWED FREQUENTLY. SPECIAL ATTENTION SHOULD BE PAID TO THE BUFFER AREA FOR ANY SIGN OF EROSION AND CONCENTRATION OF FLOW THAT MAY COMPROMISE THE BUFFER AREA. OBSERVE WHERE POSSIBLE THE VISUAL QUALITY OF THE EFFLUENT AND DETERMINE IF ADDITIONAL TREATMENT CAN BE PROVIDED.
  10. EROSION CONTROL REQUIRED AROUND DEWATERING DISCHARGE SEDIMENT CONTROL DEVICE.



**TYPICAL RIPRAP SLOPE DETAIL**  
N.T.S.

1. MAXIMUM SLOPE FOR RIPRAP STABILIZATION SHALL BE 1:1.



**PRECAST CULVERT WITH WINGWALL**  
N.T.S.

**BOX CULVERT NOTES:**

1. THE PRE-CAST CONCRETE BOX CULVERT SHALL BE DESIGNED AND MANUFACTURED BY AN EXPERIENCED CONCRETE BOX CULVERT MANUFACTURER AS SPECIFIED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH THE MANUFACTURER WITH REGARD TO ORDERING, MANUFACTURING, AND DELIVERING THE BOX CULVERT SECTIONS TO THE SITE. THE CONTRACTOR SHALL WORK WITH THE MANUFACTURER TO DEVELOP DETAILED SHOP DRAWINGS COMPLETE WITH DESIGN CALCULATIONS TO BE SUBMITTED FOR REVIEW AND APPROVAL BY THE ENGINEER PRIOR TO MANUFACTURE AND DELIVERY OF THE BOX CULVERT. THE DESIGN CRITERIA AND SUBMITTAL SHALL INCLUDE, BUT NOT BE LIMITED TO THE FOLLOWING:
  - DESIGNED TO MEET AASHTO HL-93 LOADS
  - 5,000 PSI, 28 DAY STRENGTH CONCRETE
  - GRADE 60 REBAR WITH 2" COVER ON ALL FACES
  - DCI CORROSION INHIBITOR ADDITIVE SHALL BE USED IN MIX DESIGN
  - PROVISION FOR LIFTING AND PLACING SECTIONS INTO PLACE (I.E. LIFTING RINGS, LIFTING HOLES, ETC.)
2. MEMBRANE WATERPROOFING WITH A WATERPROOFING PROTECTIVE COURSE SHALL BE USED WHERE ROADWAY PAVEMENT IS DIRECTLY ON THE STRUCTURE. USE BITUMINOUS DAMP-PROOFING WHERE ROADWAY PAVEMENT IS NOT DIRECTLY ON THE STRUCTURE.
3. THE HORIZONTAL AND VERTICAL HAUNCH DIMENSIONS SHALL BE EQUAL TO THE SIDEWALL THICKNESS IN INCHES. IF HAUNCHES WITH OTHER DIMENSIONS ARE USED, A SPECIAL REINFORCEMENT DESIGN FOR THE ACTUAL DIMENSIONS SHALL BE COMPLETED.
4. THE CONTRACTOR SHALL VERIFY THE DIMENSIONS SHOWN ON THE DESIGN PLANS WITH THE FIELD CONDITIONS PRIOR TO ORDERING THE BOX CULVERT. ANY DISCREPANCIES SHALL BE REPORTED TO ENGINEER IMMEDIATELY.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING THE BOX CULVERT IN GENERAL CONFORMITY TO THE LINES AND GRADES SHOWN ON THE DESIGN PLANS AND IN STRICT ACCORDANCE WITH THE RECOMMENDATIONS OF THE MANUFACTURER.
6. ALL JOINTS SHALL BE SECURELY SEATED TOGETHER TO ACHIEVE A SILT-TIGHT JOINT ALL AROUND. A SILT-TIGHT JOINT IS DEFINED AS A JOINT IN WHICH THE GASKET IS COMPRESSED TO A MINIMUM OF ONE HALF OF ITS UNCOMPRESSED WIDTH. THE GASKET SHALL BE UNIFORMLY COMPRESSED ALONG ALL VERTICAL AND HORIZONTAL SURFACES. A POSITIVE MEANS, THROUGH THE USE OF SEATING DEVICES, SHALL BE USED FOR PULLING ONE SECTION AGAINST ANOTHER TO ASSURE AN ADEQUATE SILT-TIGHT JOINT. EACH JOINT BETWEEN TWO BOX CULVERT SECTIONS SHALL BE COVERED WITH A MINIMUM 12-INCH WIDE JOINT WRAP. THE WRAP SHALL MEET THE SPECIFICATIONS OF ASTM C-877. THE JOINT SHALL BE COVERED COMPLETE AROUND THE ENTIRE STRUCTURE.
7. INSTALLATION OF NEW BOX CULVERT SHALL OCCUR DURING DRY WEATHER OR DRY EXCAVATION CONDITIONS. CONTRACTOR IS RESPONSIBLE FOR ANY WATER DIVERSION AND MANAGEMENT REQUIRED.

41 Hutchins Drive  
Portland, Maine 04102  
800.426.4262 | www.woodardcurran.com

**WOODARD & CURRAN**  
COMMITMENT & INTEGRITY DRIVE RESULTS

THIS DOCUMENT IS THE PROPERTY OF WOODARD & CURRAN INC. AND ITS CLIENT. REPRODUCTION OR MODIFICATION WITHOUT WRITTEN PERMISSION IS PROHIBITED.

STATE OF MAINE  
MEGAN D.L. MCDEVITT  
No. 15019  
Professional Seal

|                       |          |                  |     |
|-----------------------|----------|------------------|-----|
| NO.                   | REVISION | DATE             | BY  |
| 1                     | ADDED    | 10/02/2022       | MDM |
| CHECKED BY: KLD       |          | DATE: 10/02/2022 |     |
| DESIGNED BY: HAR      |          | DRAWN BY: HAR    |     |
| C006-SITE DETAILS.dwg |          |                  |     |

**PROJECT DETAILS**

CITY OF AUBURN  
ANDROSCOGGIN COUNTY

FISH HATCHERY ROAD  
CULVERT REPLACEMENT

JOB NO: 0230620.25  
DATE: JANUARY 2022  
SCALE: NTS  
SHEET: 8 OF 8

**C-006**

ISSUED FOR BID

woodardcurran.net\blabared\Projects\0230620.25 Auburn ME - Fish Hatchery Culvert Drawings\Civil\C006 - Site Details.dwg, Jan 28, 2022 - 7:53am KDCW

**City of Auburn, ME**  
**Fish Hatchery Road Culvert Replacement Project**  
**January 31, 2022**  
**Registered Plan Holders List**

| <b>Number</b> | <b>Name</b>       | <b>Company</b>                    | <b>Email Address</b>         | <b>Phone Number</b> |
|---------------|-------------------|-----------------------------------|------------------------------|---------------------|
| 1             | Trevor L. Knell   | C.H. Stevenson                    | tknell@chstevensoninc.com    | 207.685.3600        |
| 2             | Matt Callahan     | Glidden Excavating & Paving, Inc. | matt@gliddenpaving.com       | 207.856.9998        |
| 3             | Josh Pratt        | J Pratt Construction, Inc.        | josh@jprattinc.com           | 207.345.9060        |
| 4             | Alicia Litchfield | Pratt & Sons                      | alicia@prattandsons.net      | 207.345.3311        |
| 5             | Bob Brady         | Shaw Brothers                     | BBrady@shawbrothers.com      | 207.839.2552        |
| 6             | Jon Nadeau        | Nadco Excavation                  | jon@nadcoexcavation.com      |                     |
| 7             | Nick Mathon       | Gendron & Gendron                 | nickm@gendroncorp.com        | 207.782.7372        |
| 8             | Jim DePalma       | Longchamps & Sons, Inc.           | jd.depalma.ls@gmail.com      | 207.754.5385        |
| 9             | Joe Perryman      | St. Laurent & Son Inc             | joe@stlaurentandson.com      | 207.784.7944        |
| 10            |                   | LP Poirier & Son, Inc.            | info@lppoirier.com           | 207.782.3617        |
| 11            | Ralph McDonough   | Skid Steer Services               | Rlmcdonough@comcast.net      | 978.476.6483        |
| 12            |                   | DeFelice Corporation              | engineering@defelicecorp.com | 978.452.6967        |



# Fish Hatchery Road Culvert Replacement Project

Pre-Bid Meeting

City of Auburn and Woodard & Curran

January 25, 2022

2:00 PM



# Agenda

- ▶ Introductions & Key Personnel
- ▶ Project Overview
- ▶ Project Schedule
- ▶ Bid Form
- ▶ Addendum
- ▶ Bid Opening
- ▶ Questions

# Key Personnel

- ▶ Owner: City of Auburn
  - City of Engineer: Tony Beaulieu, P.E.
- ▶ Engineer: Woodard & Curran
  - Senior Project Manager: Megan McDevitt, P.E.

# Project Overview

**Overall Goal:** Replace deteriorated CMP culvert with precast box culvert



**Existing Roadway Crossing**



**Existing Culvert Inlet**



**Existing Culvert Outlet**



# Project Overview

## ► Anticipated Sequence of Construction:

- Installation of traffic control/road closure measures.
- Installation of erosion and sedimentation control and water control measures.
- Demolition of roadway and existing culvert.
- Installation of precast concrete box culvert with wingwalls.
- Backfill and reconstruction of roadway.
- Installation of guardrail.
- Restoration of disturbed areas.
- Removal of temporary erosion and sedimentation control, water control and traffic control measures.

# Project Overview

## ► Project Requirements

- Comply with Army Corps of Engineers General Permit NAE-2021-02980, including:
  - All in-water construction work must be completed between July 15, 2022, and September 30, 2022
- Provide temporary housing for the tenant of 114 Fish Hatchery Road during construction when excavation will remain open for more than 24 hours.
- Precast Concrete Box Culvert to be installed with 2 feet of embedment.
  - Streambanks to be reconstructed within culvert.
  - Clamshell design will be accepted.

# Project Schedule

## ▶ Contract Times

- Final Completion Date.....November 18, 2022
- Liquidated Damages .....\$500/Calendar Day

## ▶ Start Time

- Flexible, but in-water work cannot start before July 15, 2022

# Bid Form

- ▶ Bid Items Include:
  - Fish Hatchery Road Culvert Replacement– *Lump Sum*
  - Removal of Unsuitable Soil – *per Cubic Yard*
  - Granular Borrow – *per Cubic Yard*
- ▶ Bid Security – 5 percent of Bid Price

# Addendum

- ▶ All Addendums must be acknowledged on Bid Form
- ▶ Send any additional questions in writing to Megan McDevitt, [mmcdevitt@woodardcurran.com](mailto:mmcdevitt@woodardcurran.com)
  - Deadline to submit written questions: 5:00 pm January 28, 2022

# Bid Opening

- ▶ Thursday, February 3, 2022 at 2:00 pm
- ▶ Mail sealed bids to:
  - City of Auburn,
  - Attn: Derek Boulanger, Facilities Manager/Purchasing Agent
  - 60 Court Street
  - Auburn, Maine 04210
- ▶ Include "*Fish Hatchery Rd Culvert Replacement–Bid # 2022-023*" on envelope.
- ▶ Basis of Award
  - Lowest total price based on sum of all bid times from responsive bidder



Questions?