

# A d d e n d u m

Iowa Department of Transportation  
Office of Contracts

Date of Letting: June 20, 2017  
Date of Addendum: June 13, 2017

<b>B.O.</b>	<b>Proposal ID</b>	<b>Proposal Work Type</b>	<b>County</b>	<b>Project Number</b>	<b>Addendum</b>
012	78-1642-664-A	RCB CULVERT REPLACEMENT - SINGLE BOX	POTTAWATTAMIE	BROS-1642(664)--8J-78	20JUN012A01

Make the following change to the Proposal Special Provisions List and the Proposal Special Provisions Text:

Add the attached: SP-154017 SPECIAL PROVISIONS FOR DEWATERING  
Pottawattamie County BROS-1642(664)--8J-78

Make the following change to plan sheet C.01

Remove General Note 3 on SHEET C.01 and replace with:

Prior to beginning work on the following items, the contractor shall submit to the Engineer for review plans for by-pass pumping, trench shoring, jacking and boring, dewatering, traffic control, and providing shoring or support details for water mains and other major utility lines that must remain in service.

Replace plan sheets C.02 and M.01 with the attached.

Plan Sheet C.02: Estimate reference note for item #40 is changed to allow either trenched or trenchless installation methods.

Plan Sheet M.01; Changed the minimum clearance.

Attached are the minutes of the Pre-Bid Meeting held on June 7, 2017.



**SPECIAL PROVISIONS  
FOR  
DEWATERING**

**Pottawattamie County  
BROS-1642(664)--8J-78**

**Effective Date  
June 20, 2017**

**THE STANDARD SPECIFICATIONS, SERIES 2015, ARE AMENDED BY THE FOLLOWING MODIFICATIONS AND ADDITIONS. THESE ARE SPECIAL PROVISIONS AND THEY SHALL PREVAIL OVER THOSE PUBLISHED IN THE STANDARD SPECIFICATIONS.**

**154017.01 SCOPE OF WORK.**

- A.** The scope of work of these Special Provisions include site dewatering necessary to lower and control groundwater levels and hydrostatic pressure to permit excavation and construction to be performed properly under dry conditions.
  - 1. The groundwater shall be lowered and maintained to an absolute minimum of 3 feet below the lowest excavation made for the trench as required to place pipe bedding and manhole bedding.
  - 2. The groundwater shall be lowered and maintained to an absolute minimum of 3 feet below the lowest excavation made for the structure as required to install the foundation.
  - 3. The groundwater shall be lowered, as necessary, to facilitate excavation at the borrow site.
- B.** Dewatering operations shall be adequate to assure the integrity of the finished project. The responsibility for conducting the dewatering operation in a manner which will protect adjacent structures and facilities rests solely with the Contractor. The cost of repairing any damage to adjacent structures and restoration of facilities shall be the responsibility of the Contractor.
- C.** The Contractor shall bear the sole responsibility for the design, installation, operation, monitoring, and removal of the dewatering system to comply with the requirements of this section and any applicable regulatory agencies. The Contractor shall be required to install additional dewatering equipment as may be required throughout the duration of the project to maintain groundwater level as described in Article 154017.01, A.
- D.** The Contractor shall be responsible for submitting the applications and obtaining the required permits for the well construction including obtaining approval from the Council Bluffs Department of Public Health and the Pottawattamie County Office of Planning and Development. Copies of these guidelines are available from the respective agencies. The Contractor shall also be responsible for filing a Field Office Notification (FON) with the Iowa Department of Natural

Resources (IDNR) and developing a Well Water Pollution Prevention Plan for the discharge of wastewater from well construction activities per the IDNR National Pollutant discharge Elimination System (NPDES) General Permit #6. Copies of these guidelines and blank forms are available from the IDNR.

- E. The Contracting Authority will notify the Contractor of any demands brought upon the project by the IDNR. The Contractor shall cooperate with the Contracting Authority in its efforts to comply with the site-specific guidelines provided by the IDNR, including the possibility of adjusting the dewatering system if the discharge exceeds limits imposed by the IDNR. The Contractor shall be responsible for the costs of sampling and laboratory analysis required by the IDNR. The required sampling and testing parameters, frequencies, and locations are provided the Appendix A.

**154017.02 SCHEDULE AND PLAN.**

- A. Prior to commencement of construction, the Contractor shall submit a detailed dewatering plan. Contractor shall allow 9 weeks for review. Submittal shall include:
  - 1. Plan location of dewatering wells and piezometers.
  - 2. Well and piezometer construction details including the diameter, depth, screen size, screen location, filter pack location, list of equipment and estimated pumping rates.
  - 3. Discharge pipe location, size, and details. If the discharge pipe will cross and over a flood control levee, then a ramp shall be detailed to allow vehicle access to be maintained along the top of the levee. Pipe discharge will not be allowed on the bank of a flood control channel or through a culvert that penetrates a flood control levee. A plan view location of the ramp and discharge pipe shall be included along with a cross section for any levee crossing.
  - 4. Abandonment plan for both the dewatering wells and piezometers.
- B. Geotechnical information collected for the project is provided in the contract documents. Fluctuations of the groundwater level can occur due to seasonal variations in the amount of rainfall, runoff, and other factors not evident at the time the borings were completed. The geotechnical information was prepared for design purposes only and may not be adequate for a Contractor to evaluate construction conditions or design the dewatering system. The Contractor should independently interpret the soil/groundwater conditions taking into consideration their intended means and methods of construction, and the Contractor may perform additional exploration at their own expense as necessary for design of the dewatering system.
- C. Due to possible variations of soil conditions and groundwater levels between soil bore locations the Contractor shall be responsible for changing or modifying the dewatering system to accommodate such variations.

**154017.03 CONTROL AND OBSERVATION.**

- A. Adequate control shall be maintained by the Contractor to ensure that the stability of excavated slopes are not adversely affected by water, that erosion is controlled and that flooding of excavation or damage to structures does not occur. The Contractor is solely responsible for site excavation safety and compliance with Occupational Safety and Health Administration (OSHA) regulations, in particular Standard 29 CFR, part number 1926. The Engineer assumes no responsibility for site safety; the above information is provided for consideration by the Contractor only.
- B. The Contracting Authority reserves the right to install piezometers, at its own expense, to observe the groundwater levels and monitor the performance of the system.

- C. The Contractor will be required to install piezometers to determine if the groundwater is at the acceptable absolute minimum level or lower as defined in Article 154017.01, A.
1. When observation of the groundwater level is complete the piezometers shall be properly abandoned.
  2. Said piezometers shall be installed with the following minimum frequency:
    - Near the beginning and ending of trenched pipe runs longer than 50 feet.
    - Near every 150 linear feet of trenched pipe runs along the length of the pipe run.

#### **154017.04 INSPECTION.**

- A. During or after any excavation, if Contractor observes sufficient soil instability present that may prevent proper installation of pipe bedding, pipelines, structures, backfill and compaction, then Contractor shall call for inspection of conditions by the Engineer. The Engineer shall inspect the conditions and determine if they are unacceptable for pipe installation.
- B. If after dewatering has lowered the groundwater level as specified and unacceptable trench conditions are found by the Engineer, then the Contractor may be directed to increase dewatering pumping rates or install additional wells to lower the groundwater to an acceptable level lower than that defined in Article 154017.01, A. If more extensive dewatering is required the Contractor must achieve the revised acceptable groundwater level before construction may continue.

#### **154017.05 EXECUTION.**

- A. The Contractor shall furnish, install, and operate pumps, pipes, appliances, and equipment of sufficient capability to maintain the absolute minimum or lower groundwater elevation described in Article 154017.01, A within the excavation limits until the excavation is backfilled, unless otherwise authorized by the Engineer.
- B. The Contractor shall provide any temporary ground surface piping necessary to convey dewatering well water discharge to an acceptable storm sewer intake or waterway with the capacity to convey said discharge. Any rerouting of temporary ground surface piping, necessary to complete the project, will be provided by the Contractor. Discharge directly onto the ground surface shall not be allowed unless approved by the Engineer. The Contractor shall supply a clean tapping device at each well location to allow easy discharge water sampling by the Engineer.
- C. An adequate system shall be designed, installed and maintained to lower and control the groundwater elevations as described in Article 154017.01, A to permit excavation, construction of structures, and placement of fill materials to be performed under dry conditions.
- D. The system shall be placed into operation, prior to beginning excavating below the natural groundwater level, to lower the groundwater to the elevation as described in Article 154017.01, A and shall be operated continuously 24 hours a day, 7 days a week until piping or structures have been constructed and backfill materials have been placed to the top of the excavation.

If the dewatering system shuts down or if pumping is suspended, the groundwater levels will need to be lowered to the required level, as described in Article 154017.01, A, and verified by the Engineer before continuing any construction, including excavation or backfilling. The Engineer will also require any compaction, moisture and/or other soils testing, as determined necessary, of any backfill that is prematurely subjected to groundwater to verify said soils stability prior to placement of additional backfill. If said soils are determined to be

unacceptable the Contractor will be required to remove and replace damaged soils at their own expense.

- E. Dewatering shall at all times be conducted in such a manner as to preserve the undisturbed bearing capacity of subgrade soils at the bottom of the proposed excavation.
- F. The Contractor shall install piezometers to monitor the groundwater elevation.
- G. Diversion ditches and dikes shall be used, where necessary, to prevent surface water from entering the excavation.

**154017.06 METHOD OF MEASUREMENT AND BASIS OF PAYMENT.**

The measurement and payment for all work covered under this section will be made at the contract lump sum price for Dewatering which shall constitute full compensation for obtaining any necessary permits and furnishing all equipment, labor, and materials to install, operate, maintain, monitor, and remove the dewatering system in accordance with all applicable regulations.

- A. No payment shall be made to the Contractor until copies of the permits are supplied to the Contracting Authority.
- B. The cost of piezometers sufficient to meet the requirements stated in Article 154017.03, C shall be considered incidental to Dewatering. If any additional piezometers are requested by the Engineer or the Contracting Authority, as stated in Article 154017.03, C, the Contractor will be paid for said piezometers according to Article 1109.03, B of the Standard Specifications. If the additional piezometers are needed as a direct result of the Contractor's actions or negligence they will be done at the sole expense of the Contractor.
- C. The cost of sampling and testing the discharge water according to Article 154017.01, E shall be considered incidental to Dewatering.
- D. The Contractor shall be required to submit a schedule of values to the Engineer to explain the breakdown of the lump sum price. This schedule of values will only be used to determine the appropriate amount of the lump sum to be attributed to each progress payment. The following list contains items that should be used, at a minimum, for the schedule of values:
  - Obtaining permits and complying with permit requirements.
  - Drilling the wells and piezometers.
  - Installing the pumps.
  - Installing power supply.
  - Discharge and/or manifold piping.
  - Sampling and testing the discharge water.
  - Removal.

## **APPENDIX A**

### **City of Council Bluffs Dewatering Discharge Sampling and Testing Requirements**



13478 Chandler Road  
 Omaha, Nebraska 68138-3716  
 402.556.2171 Fax 402.556.7831  
 www.thielegeotech.com

May 17, 2010

Mr. Jeff Krist  
 Public Works Department  
 City of Council Bluffs  
 209 Pearl Street  
 Council Bluffs, IA 51503

**RE: PROPOSED ENVIRONMENTAL SCREENING POLICY FOR MONITORING  
 THE DISCHARGE OF GROUND WATER FROM DEWATERING ACTIVITIES  
 TG# 08017.06**

Dear Mr. Krist:

This letter outlines a proposed environmental screening policy related to dewatering projects conducted by the City of Council Bluffs. This screening policy has resulted from the recent request from Kirk Mathis of IDNR for the City of Council Bluffs to oversee dewatering activities that occur in the City of Council Bluffs via the City's storm water discharge permit (NPDES General Permit MS4).

Previously the IDNR field office has provided guidance for a schedule of sampling activities to monitor the quality of the discharge waters entering the City's storm sewer during dewatering activities. These monitoring events have taken place on a daily to weekly basis and tested pH, iron content, total dissolved solids, and total suspended solids. If there was potential for a LUST site to be influenced, then select constituents of petroleum hydrocarbons would also be included in the testing regime.

Below is a proposed monitoring plan for a dewatering site. If there is an active LUST site within 1,000 feet of the dewatering well, then the relevant additional parameters should also be included in the sampling events.

PARAMETER	LIMIT	SAMPLING FREQUENCY	LOCATION
Volume of water discharged	NA	Record daily	Prior to discharge to storm sewer
pH	6.0-9.0 SU (Standard Units)	Day 1, 4, & 7 the first week then weekly thereafter	Prior to discharge to storm sewer/outfall
Total suspended solids	45 mg/L	Day 1, 4, & 7 the first week then weekly thereafter	Prior to discharge to storm sewer/outfall
Total iron	August through April: 15 mg/L May through July: 25 mg/L	Day 1, 4, & 7 the first week then weekly thereafter	Prior to discharge to storm sewer/outfall


<b>LUST with gasoline release</b>			
BTEX (OA-1)	Benzene: 5.0 ug/L Toluene: 1,000 ug/L Ethylbenzene: 700 ug/L Xylenes: 10,000 ug/L	Day 1, 4, & 7 the first week then weekly thereafter	Prior to discharge to storm sewer/outfall
<b>LUST with diesel/waste oil release</b>			
Total Extractable Hydrocarbons (OA-2)	Diesel: 1,200 ug/L Waste Oil: 400 ug/L	Day 1, 4, & 7 the first week then weekly thereafter	Prior to discharge to storm sewer

The intent of this environmental screening policy is to broaden the knowledge of the potential impact upon the storm sewer fallout locations from ground water releases to the City's storm sewer system from dewatering events.

We look forward to receiving your advice on this matter. If you have any questions, or if there is any additional information that we can provide, please feel free to contact us.

Respectfully submitted,  
Thiele Geotech, Inc.

Prepared by,

  
Donna S. Matlock, C.P.G., CHMM  
Senior Geologist



ESTIMATED PROJECT QUANTITIES

Item No.	Item Code	Item	Unit	Total
1.	2101-0850002	CLEARING AND GRUBBING	UNIT	1.0
2.	2102-2625001	EMBANKMENT-IN-PLACE, CONTRACTOR FURNISHED	CY	1,347.8
3.	2105-8425005	TOPSOIL, FURNISH AND SPREAD	CY	154.0
4.	2105-8425015	TOPSOIL, STRIP, SALVAGE AND SPREAD	CY	390.0
5.	2111-8174100	GRANULAR SUBBASE	SY	851.4
6.	2113-0001000	SUBGRADE STABILIZATION MATERIAL, FLY ASH	SY	851.4
7.	2123-7450020	SHOULDER FINISHING, EARTH	STA	12.0
8.	2301-1003080	STANDARD OR SLIP-FORM PORTLAND CEMENT CONCRETE PAVEMENT, QM-C, CLASS 3 DURABILITY, 8 IN.	SY	751.0
9.	2401-6745357	REMOVAL OF CONCRETE FOUNDATIONS, AS PER PLAN	EA	1.0
10.	2401-6745625	REMOVAL OF EXISTING BRIDGE	LS	1.0
11.	2401-6745650	REMOVAL OF EXISTING CONCRETE CULVERT	LS	1.0
12.	2402-2720000	EXCAVATION, CLASS 20	CY	4,255.8
13.	2403-0100020	STRUCTURAL CONCRETE (RCB CULVERT)	CY	1,743.3
14.	2404-7775005	REINFORCING STEEL, EPOXY COATED	LB	292,835.0
15.	2501-8400172	TEMPORARY SHORING	LS	1.0
16.	2502-8212034	SUBDRAIN, LONGITUDINAL, 4" DIA.	LF	397.6
17.	2510-6745850	REMOVE EXISTING PAVEMENT	SY	722.5
18.	2511-6745900	REMOVAL OF SIDEWALK	SY	236.8
19.	2511-7526004	SIDEWALK, P.C. CONCRETE, 4 IN.	SY	190.3
20.	2511-7526006	SIDEWALK, P.C. CONCRETE, 6 IN.	SY	43.2
21.	2511-7528101	DETECTABLE WARNINGS	SF	60.4
22.	2515-6745600	REMOVAL OF PAVED DRIVEWAY	SY	56.3
23.	2518-6910000	SAFETY CLOSURES	EA	5.0
24.	2519-3300600	SAFETY FENCE	LF	1,500.0
25.	2519-4200120	REMOVAL OF FENCE, CHAIN LINK	LF	237.4
26.	2519-4200190	REMOVAL OF FENCE, WOOD	LF	162.4
27.	2528-8445110	TRAFFIC CONTROL	LS	1.0
28.	2533-4980005	MOBILIZATION	LS	1.0
29.	2538-6970010	SALVAGE, REMOVAL, AND DISPOSAL OF OBSTRUCTIONS	LS	1.0
30.	2599-9999005	ROADWAY SURFACE DRAIN	EA	2.0
31.	2599-9999005	STABILIZED CONSTRUCTION ENTRANCE	EA	2.0
32.	2599-9999005	INTAKE FILTERS	EA	4.0
33.	2599-9999009	PILES, STEEL PIPE, 10 IN. DIA.	LF	7,150.0
34.	2599-9999010	DEWATERING	LS	1.0
35.	2599-9999018	GRANULAR SUBBASE FOR CULVERT	SY	1,855.0
36.	2601-2636044	SEEDING, FERTILIZING AND MULCHING (URBAN)	AC	1.1
37.	2602-0000020	SILT FENCE	LF	350.0
38.	2602-0000071	REMOVAL OF SILT FENCE OR SILT FENCE FOR DITCH CHECK	LF	350.0
39.	2602-0010010	MOBILIZATIONS, EROSION CONTROL	EA	3.00
NON-PARTICIPATING				
40.	2599-9999010	STEEL CASING, 30" DIA.	LS	1.00

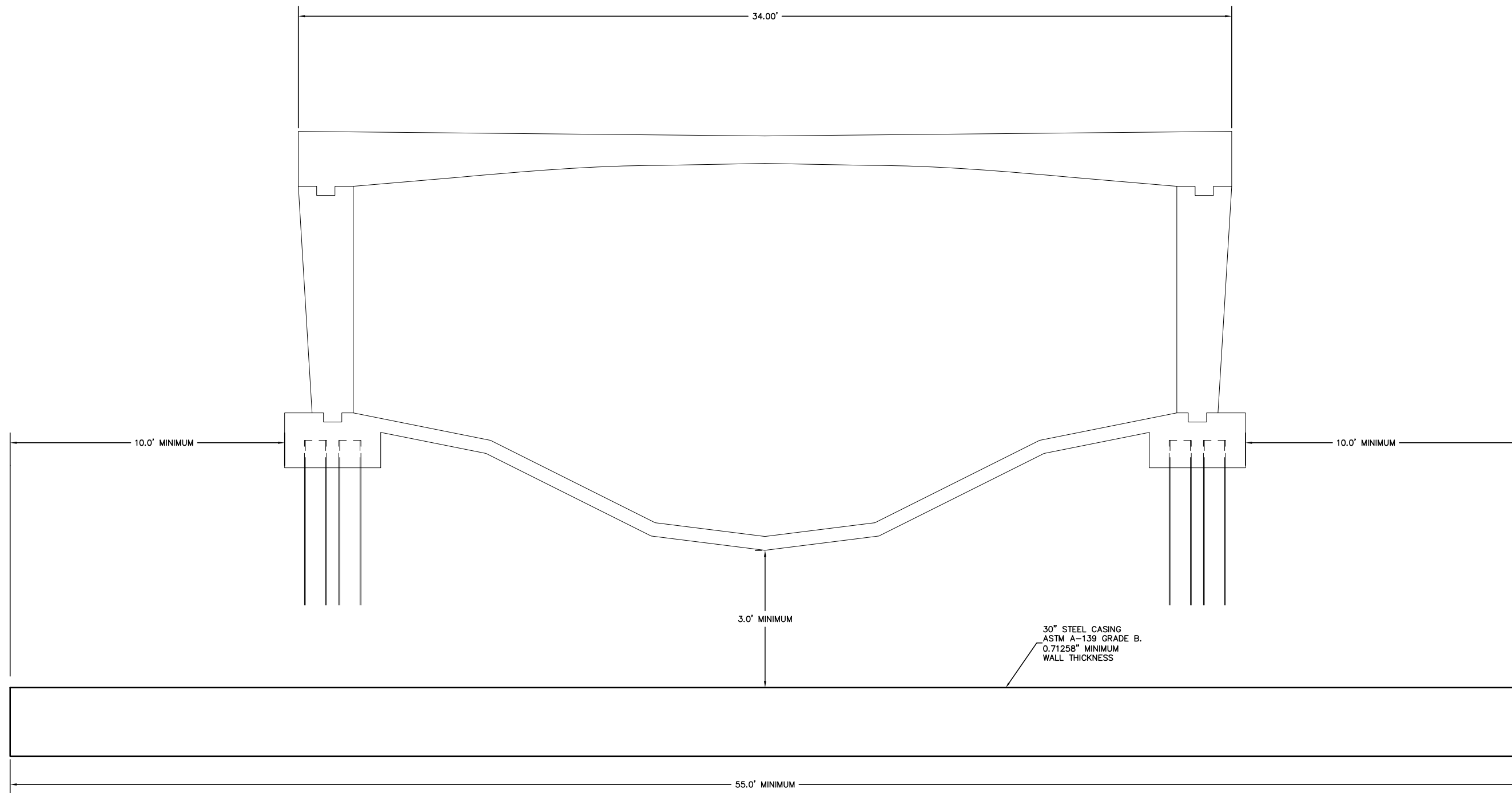
ESTIMATE REFERENCE INFORMATION

Item No.	Item Code	Description
1.	2101-0850002	CLEARING AND GRUBBING
2.	2102-2625001	EMBANKMENT-IN-PLACE, CONTRACTOR FURNISHED BID ITEM INCLUDES SUITABLE BACKFILL MATERIAL FOR CULVERT. SUITABLE CLASS 20 EXCAVATION MATERIAL SHALL BE USED PRIOR TO ANY REQUIRED MATERIAL FROM THIS BID ITEM.
3.	2105-8425005	TOPSOIL, FURNISH AND SPREAD ITEM TO BE USED IN AREAS NORTH OF CREEK TOP ROAD
4.	2105-8425015	TOPSOIL, STRIP, SALVAGE AND SPREAD ITEM TO BE USED IN AREAS SOUTH OF CREEK TOP ROAD
5.	2111-8174100	GRANULAR SUBBASE
6.	2113-0001000	SUBGRADE STABILIZATION MATERIAL, FLY ASH
7.	2123-7450020	SHOULDER FINISHING, EARTH
8.	2301-1003080	STANDARD OR SLIP-FORM PORTLAND CEMENT CONCRETE PAVEMENT, QM-C, CLASS 3 DURABILITY, 8 IN. REFER TO TAB HGM-3.
9.	2401-6745357	REMOVAL OF CONCRETE FOUNDATIONS, AS PER PLAN REFER TO LINE ITEM "8" CONCRETE FOUNDATION" ON TAB 110-2.
10.	2401-6745625	REMOVAL OF EXISTING BRIDGE CONTRACTOR TO REMOVE BRIDGE AT 9TH STREET AND 10TH STREET. MATERIALS WILL BECOME PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF PROPERLY.
11.	2401-6745650	REMOVAL OF EXISTING CONCRETE CULVERT REFER TO TAB 110-2.
12.	2402-2720000	EXCAVATION, CLASS 20 INCLUDES ALL LABOR, EQUIPMENT AND INCIDENTALS REQUIRED FOR EXCAVATION RELATING TO CULVERT CONSTRUCTION. TEMPORARY STREAM DIVERSION SHALL BE INCIDENTAL TO THIS ITEM. EXCAVATION SHALL BE TEMPORARILY STOCKPILED SOUTH OF CREEK TOP ROAD. REFER TO SHEET D.01 INCLUDES COSTS OF USING SUITABLE CLASS 20 EXCAVATION TO BACKFILL THE CULVERT. FILL QUANTITY IS ESTIMATED AT 5,603.3 CY WHICH INCLUDES AN ADDITIONAL 35% FOR SHRINKAGE. ANY ADDITIONAL FILL NEEDED IN EXCESS OF THE SUITABLE BACKFILL FROM THE CLASS 20 EXCAVATION SHALL BE EMBANK-IN-PLACE, CONTRACTOR FURNISHED.
13.	2403-0100020	STRUCTURAL CONCRETE (RCB CULVERT) CERTIFIED PLANT INSPECTION IS REQUIRED FOR THIS BID ITEM.
14.	2404-7775005	REINFORCING STEEL, EPOXY COATED
15.	2501-8400172	TEMPORARY SHORING
16.	2502-8212034	SUBDRAIN, LONGITUDINAL, 4" DIA. REFER TO TAB 104-5C
17.	2510-6745850	REMOVE EXISTING PAVEMENT REFER TO TAB 110-1 FOR REMOVAL LOCATIONS AND QUANTITIES. REQUIRED SAW CUTTING SHALL BE INCIDENTAL TO THIS ITEM.
18.	2511-6745900	REMOVAL OF SIDEWALK REFER TO TAB 110-5 FOR REMOVAL LIMITS.
19.	2511-7526004	SIDEWALK, P.C. CONCRETE, 4 IN. CERTIFIED PLANT INSPECTION IS REQUIRED FOR THIS BID ITEM. REFER TO TO TAB 113-1.
20.	2511-7526006	SIDEWALK, P.C. CONCRETE, 6 IN. CERTIFIED PLANT INSPECTION IS REQUIRED FOR THIS BID ITEM. REFER TO TO TAB 113-1.
21.	2511-7528101	DETECTABLE WARNINGS BID ITEM SHALL INCLUDE ALL WORK NECESSARY TO INSTALL DETECTABLE WARNING PANELS AT THE LOCATIONS SHOWN ON THE S SHEETS. MEASUREMENT AND PAYMENT SHALL BE BY UNIT BID PRICE SQUARE FOOT OF DETECTABLE WARNING PANELS SUPPLIED AND INSTALLED. DETECTABLE WARNING PANELS SHALL MEET THE CURRENT DOT REQUIREMENTS. PANELS SHALL BE 2'x2', COMPOSITE, RED, MANUFACTURED BY EZ SET TILE, DETECTILE SLIMTEK II, ARMOR TILE OR APPROVED EQUAL. REFER TO TAB 113-1
22.	2515-6745600	REMOVAL OF PAVED DRIVEWAY REFER TO TAB HGM-2.
23.	2518-6910000	SAFETY CLOSURES REFER TO TAB 108-13a.
24.	2519-3300600	SAFETY FENCE BID ITEM TO BE USED AS NEEDED OR AS DIRECTED BY THE ENGINEER TO PROTECT THE WORK AT THE CONSTRUCTION LIMITS. MEASUREMENT AND PAYMENT SHALL BE AT THE CONTRACT UNIT PRICE PER LINEAL FOOT OF SAFETY FENCE INSTALLED. BASIS OF PAYMENT SHALL BE FULL COMPENSATION FOR ALL MATERIALS, LABOR, TOOLS, AND EQUIPMENT NECESSARY TO COMPLETE THE WORK.

ESTIMATE REFERENCE INFORMATION

Item No.	Item Code	Description
25.	2519-4200120	REMOVAL OF FENCE, CHAIN LINK REFER TO TAB HGM-1.
26.	2519-4200190	REMOVAL OF FENCE, WOOD REFER TO TAB HGM-1.
27.	2528-8445110	TRAFFIC CONTROL REFER TO TAB 108-23A.
28.	2533-4980005	MOBILIZATION SEE SHEET D.01 FOR CONTRACTOR LAY DOWN AREA LOCATION.
29.	2538-6970010	SALVAGE, REMOVAL, AND DISPOSAL OF OBSTRUCTIONS REFER TO TAB 110-8. ASBESTOS INVESTIGATION AND ABATEMENT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
30.	2599-9999005	ROADWAY SURFACE DRAIN BID ITEM SHALL INCLUDE EMBEDDED ANGLE ASSEMBLY, ROADWAY GRATE AND ROADWAY GRATE SUPPORTS. REFER TO TAB HGM-5.
31.	2599-9999005	STABILIZED CONSTRUCTION ENTRANCE TO BE LOCATED AT ENTRANCES TO THE SITE USED BY THE CONTRACTOR FOR CONSTRUCTION ACTIVITY.
32.	2599-9999005	INTAKE FILTERS REFER TO TAB HGM-4.
33.	2599-9999009	PILES, STEEL PIPE, 10 IN. DIA. ESTIMATED QUANTITY ASSUMES 286 PILES AT 25'-0" LENGTH EACH.
34.	2599-9999010	DEWATERING REFER TO SPECIAL PROVISION. GROUND WATER LEVELS BETWEEN 972.8 AND 974.2 WHEN BORINGS WERE COMPLETED ON NOVEMBER 20, 2014.
35.	2599-9999018	GRANULAR SUBBASE FOR CULVERT REFER TO CULVERT DESIGN SHEETS FOR DEPTH.
36.	2601-2636044	SEEDING, FERTILIZING, AND MULCHING (URBAN) ITEM TO BE USED FOR SEEDING ALL DISTURBED AREAS WITHIN THE CONSTRUCTION LIMITS. THE CONTRACTOR SHALL VERIFY WITH THE ENGINEER ALL AREAS TO BE MULCHED PRIOR TO COMMENCING ANY WORK. APPLICATION TO AREAS OUTSIDE OF THE CONSTRUCTION LIMITS OR AREAS NOT APPROVED BY THE ENGINEER WILL NOT BE MEASURED FOR PAYMENT. THE FOLLOWING SEED MIXTURE AND APPLICATION RATE SHALL BE USED: FOUR VARIETIES OF TALL FESCUE - MINIMUM OF 87% OF MIXTURE TWO VARIETIES OF KENTUCKY BLUE GRASS - MINIMUM OF 7% OF MIXTURE ONE VARIETY OF PERENNIAL RYEGRASS - MINIMUM OF 5% OF MIXTURE URBAN SEED MIXTURE SHALL BE APPLIED AT A BULK SEED RATE OF 10 POUNDS PER 1,000 SQUARE FEET OR 436 POUNDS PER ACRE. MEASUREMENT AND PAYMENT SHALL BE AT THE CONTRACT UNIT PRICE PER ACRE OF SEEDING AND FERTILIZING COMPLETED. BASIS FOR PAYMENT SHALL BE FULL COMPENSATION FOR ALL MATERIALS, LABOR, TOOLS AND EQUIPMENT NECESSARY TO COMPLETE THE WORK.
37.	2602-0000020	SILT FENCE REFER TO TAB 100-17
38.	2602-0000071	REMOVAL OF SILT FENCE OR SILT FENCE FOR DITCH CHECK
39.	2602-0010010	MOBILIZATIONS, EROSION CONTROL
NON-PARTICIPATING		
40.	2599-9999010	STEEL CASING, 30" REFER TO SHEETS D.01 AND M.01. CONTRACTOR SHALL PERFORM ALL REQUIRED EXCAVATION, DEWATERING, BACKFILLING, COMPACTION AND SURFACE RESTORATION REQUIRED FOR THE COUNCIL BLUFFS WATER WORKS TO SELF-PERFORM THE ABANDONMENT OF THE EXISTING WATER MAIN THROUGH THE CONSTRUCTION LIMITS. CONSTRUCT THE NEW WATER MAIN AND CONNECTIONS OF THE NEW WATER MAIN TO THE EXISTING WATER MAIN. CONTRACTOR SHALL ALLOW 1 WORKING DAY FOR THE COUNCIL BLUFFS WATER WORKS TO SELF-PERFORM THE ABANDONMENT OF THE EXISTING WATER MAIN. CONTRACTOR SHALL IDENTIFY THE LIMITS OF THE REQUIRED WATER MAIN ABANDONMENT TO THE COUNCIL BLUFFS WATER WORKS PRIOR TO THE PRECONSTRUCTION MEETING. CONTRACTOR SHALL PROVIDE AND INSTALL 55.0' 30" STEEL CASING, ASTM A-139 GRADE B, 0.71258" MINIMUM WALL THICKNESS, VIA TRENCHED OR TRENCHLESS INSTALLATION METHODS. CONTRACTOR SHALL INSTALL DUCTILE IRON WATER MAIN AND CASING CHOCKS WITHIN THE CASING. THE DUCTILE IRON WATER MAIN AND CASING CHOCKS WILL BE PROVIDED TO THE CONTRACTOR BY THE COUNCIL BLUFFS WATER WORKS. CONTRACTOR SHALL COORDINATE THE INSTALLATION OF THE WATER MAIN WITHIN THE CASING WITH THE COUNCIL BLUFFS WATER WORKS, BRIAN CADY (712) 328-1006 EXT. 1039. CONTRACTOR SHALL PROVIDE ADEQUATE ACCESS, DEWATERING AND WORK SPACE AT BOTH ENDS OF THE CASING FOR THE COUNCIL BLUFFS WATER WORKS TO INSTALL ADDITIONAL WATER MAIN AND APPURTENANCES BEYOND THE CASING AND OUTSIDE OF THE CONSTRUCTION LIMITS. CONTRACTOR SHALL ALLOW FOR 11 CALENDAR DAYS AFTER INSTALLATION WITHIN THE CASING FOR THE COUNCIL BLUFFS WATER WORKS TO SELF-PERFORM THE REMAINING WATER MAIN INSTALLATION. THE COUNCIL BLUFFS WATER WORKS RESERVES THE RIGHT TO DELETE THIS WORK AND/OR SELF-PERFORM THIS WORK PRIOR TO CONTRACT AWARD. MEASUREMENT AND PAYMENT SHALL BE AT THE CONTRACT LUMP SUM PRICE FOR 30" STEEL CASING INSTALLED. BASIS OF PAYMENT SHALL BE FULL COMPENSATION FOR ALL MATERIALS, LABOR, TOOLS, AND EQUIPMENT NECESSARY TO COMPLETE THE WORK.

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STEEL CASING PLACEMENT DETAIL  
NO SCALE

**9<sup>th</sup> & 10<sup>th</sup> Street Culvert Replacement**

**City of Council Bluffs**

**Project No: BROS-1642(664)--8J-78**

**Pre-Bid Meeting Agenda**

**Minutes in Red**

1. As-builts

- a. Will be posted to Bid Ex after the meeting

Plans will be posted on Bid-x and are available to all contractors. Posted plans will include 4 sheets from the original plan set.

2. Open Cut / Temporary Shoring

- a. Open cut everywhere except the northeast corner (temp shoring)

Temporary shoring has been reduced to minimum, the majority of the project is expected to be open cut within the limits shown on the plan set.

3. Utilities

- a. Waterworks encasement
- b. Overhead lines temporarily relocated

Electrical has been moved with the exception of one line, and there is a fiber optic line that has yet to be moved. The intent is to have all known utilities clear before the project begins.

The plans call for the watermain near 10th Street to be encased in a steel encasement. Coordination with the waterworks will be necessary.

4. Class 20 Stockpile / Contractor Lay Down Area

- a. Area south of Creek Top

Stockpiling material will be allowed on the south side of Indian Creek between the conduit and the Broadway viaduct as shown on Sheet D.01.

5. Construction Easements

- a. Permanent easement = 29' +/- from the proposed culvert
- b. Temporary Easement = 5' beyond the permanent easement

Permanent easement has been obtained to 29' north of the existing channel wall, this area is intended to be used for the open cut. The 5' temporary easement beyond the permanent easement can be used as well for construction activities, and also contains the relocated electrical utilities.

6. Construction Schedule

- a. Free winter work 2017-18 (Nov. 15, 2017 – April 1, 2018)
- b. Late start date of April 2, 2018
- c. 120 Working Days

Free winter work will be allowed, and the contract period is 120 working days with a late start date of April 2, 2018.

7. Questions

**Can the watermain be bored under conduit rather than installing the encasement and then the watermain? This would avoid a deep cut with a cofferdam and dewatering.**

This option was discussed with the Council Bluffs Waterworks during design. The discussions led to the conclusion that installing the encasement avoid having to bore through a relatively small window between pile. If a contractor can bore through the existing timber pile and drive new pile near the watermain, it may be a possibility.

Action: HGM and CBPW will talk to waterworks about making this design change and if it is feasible, an addendum will be posted.

**What are the typical Indian Creek flows that will have to be bypassed? The design flows are listed on the situation plan, low flows are not.**

Action: HGM will provide any available information on the lower flows, but amounts lower than Q2 may not be available.

**Is the intent of the project to construct this project in the winter?**

By providing free winter work, it was intended that the project would be constructed during the winter of 2017/2018 and proceed into the summer of 2018 as necessary.

**Are other utilities present that are not marked on the plans?**

The only known utilities within the construction limits will be the watermain. Other known utilities in the area have been or will be cleared.

Refer to General Note 1 on Sheet C.01. The UPN line currently remaining is intended to be moved prior to construction. Latest status from UPN is materials have been ordered and a PO was scheduled to be issued on June 2, 2017.

**Item reference note 3 on sheet C01 refers to asbestos abatement in the garages that are to be demoed. Can the abatement be paid for as extra work in the event that no abatement is required?**

HGM and CBPW will consider adding an item for Asbestos Testing, and then pay for abatement as extra work if the test comes back positive.

**Item Reference Note 3 on sheet C01 says an Emergency Action Plan is required for work within the levee critical zone. Is this project within a levee critical zone?**

No, this project is not within the levee critical zone, and should not need an EAP. HGM will consider taking that note out as part of an addendum.

**Are there embargoed bridges that will affect the project?**

There are none in the area except for 9th and 10th which will be removed as part of the project.

**If watermain is left in place, what is the elevation difference at each end of the project?**

The watermain is flat through the project.

**Who is responsible for installing the watermain?**

Watermain will be provided by the Council Bluffs Waterworks, the contractor is responsible for the items called out in ERN 40. CBWW intends installation of watermain only be accommodated within the limits of the conduit contractors open cut but may extend beyond. The watermain segment will be shut down for the duration of the project.

**There is a general note about incidental costs. What type of costs are the concern?**

The note is to allow the City (owner) to charge the Contractor for remedying items they are responsible for.