

ADDENDUM No. 2

LITTLE PAPIO CREEK LEVEE/CHANNEL CULVERTS CONSTRUCTION PROJECT (GROUP A CULVERTS)
DOUGLAS COUNTY, NEBRASKA
BID LETTING DATE: 24 February 2022

19 February 2022

*This Addendum is issued to modify, explain or correct the original Drawings and Specifications (collectively referred to as Construction Documents.), and is hereby made a part of the project to be bid. Please attach this Addendum to the Construction Documents in your possession. **Insert the number and issue date of this Addendum in the blank space provided on the Bid Form.***

DRAWINGS

- A. General Notes (Sheet A.2) – An updated General Notes (Sheet A.2) document is included with this addendum. Updates to noted section include addition of **General Note #42 “TREE REMOVAL CANNOT OCCUR BETWEEN JUNE 1ST AND JULY 31ST and General Note #43 “PRESSURE TESTING OF REHABILITATED JOINTS IN EXISTING RCP CULVERTS WILL NOT BE REQUIRED AFTER REHABILITATION IS COMPLETED.”**
- B. Quantities (Sheet A.3-B) – An updated Quantities (Sheet A.3-B) document is included with this addendum. Updates to noted section include change of bid item **2.087** from **48” DIA MANHOLE** to **54” DIA MANHOLE** to correspond to the information shown on the plan and profile sheet for culvert LP-L26.
- C. Details (Sheet D.3) – Detail 2-D.3 callout for trail material type shall be modified to state “PROPOSED 6” THICK **L65 1PF CONCRETE**” and not L65M. An updated Sheet D.3 is attached.

SPECIFICATIONS:

- A. Bid Form – An updated Bid Form document is included with this addendum. Please replace Bid Form document with the included document, which matches the corrected bid item list provided on the quantities table of the construction drawings.
- B. Section 02275 Riprap – An updated specification section is included with this addendum. Please replace this section with the included documents which has adjustments to Section 1.4B. Soundness Testing QA, and Section 2.1.F Soundness Loss and Combined Loss. Section 2.1.G. Allowable Quarries has been added to this section.
- C. Section 02240 Dewatering – An updated specification section is included with this addendum. Please replace this section with the included documents which has adjustments to Section 1.1 Summary, and addition of Section 3.1.E Temporary Flow Passage System.

CLARIFICATIONS:

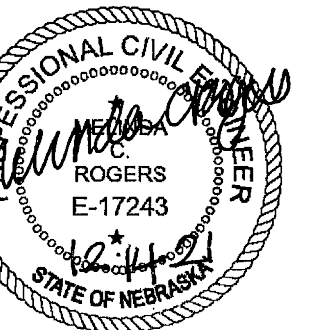
- A. Trail Damage by Contractor – Site access routes are shown to be on trail that is not included in the quantities for “Trail Removal and Replacement”. The PMRNRD expects damage trail and will pay the contractor for removing and replacing damaged trail if it is determined necessary/unavoidable by the project engineer.

- B. Damage to Existing Degraded Pavement Surfacing – The condition of degraded pavement/trail shall be documented by the contractor with videos/photos prior to site mobilization. The engineer will provide documentation for the client. Degraded pavement that is further degraded during the construction project will be required to be removed and replaced. Locations that are determined to be necessary/unavoidable damage will be paid for at the unit bid price established for this work.

- C. A project storage site that may be available for the contractor to store project material/equipment on have been identified in the area shown below. Other areas that are owned by the Papio-Missouri River NRD or City of Omaha park areas (possibly Karen Park) may be utilized as well but further approval will be required by the NRD and City. The contractor will be required for re-establishing these areas after construction to pre-construction conditions at their own expense. This may include, but is not limited to site grading, seeding/erosion control blanket, fencing repair, and pavement repair. The areas that will be utilized by the contractor must be approved prior to construction. The owner of these locations shall assume no liability for damages/theft/misuse of any items stored in these locations.



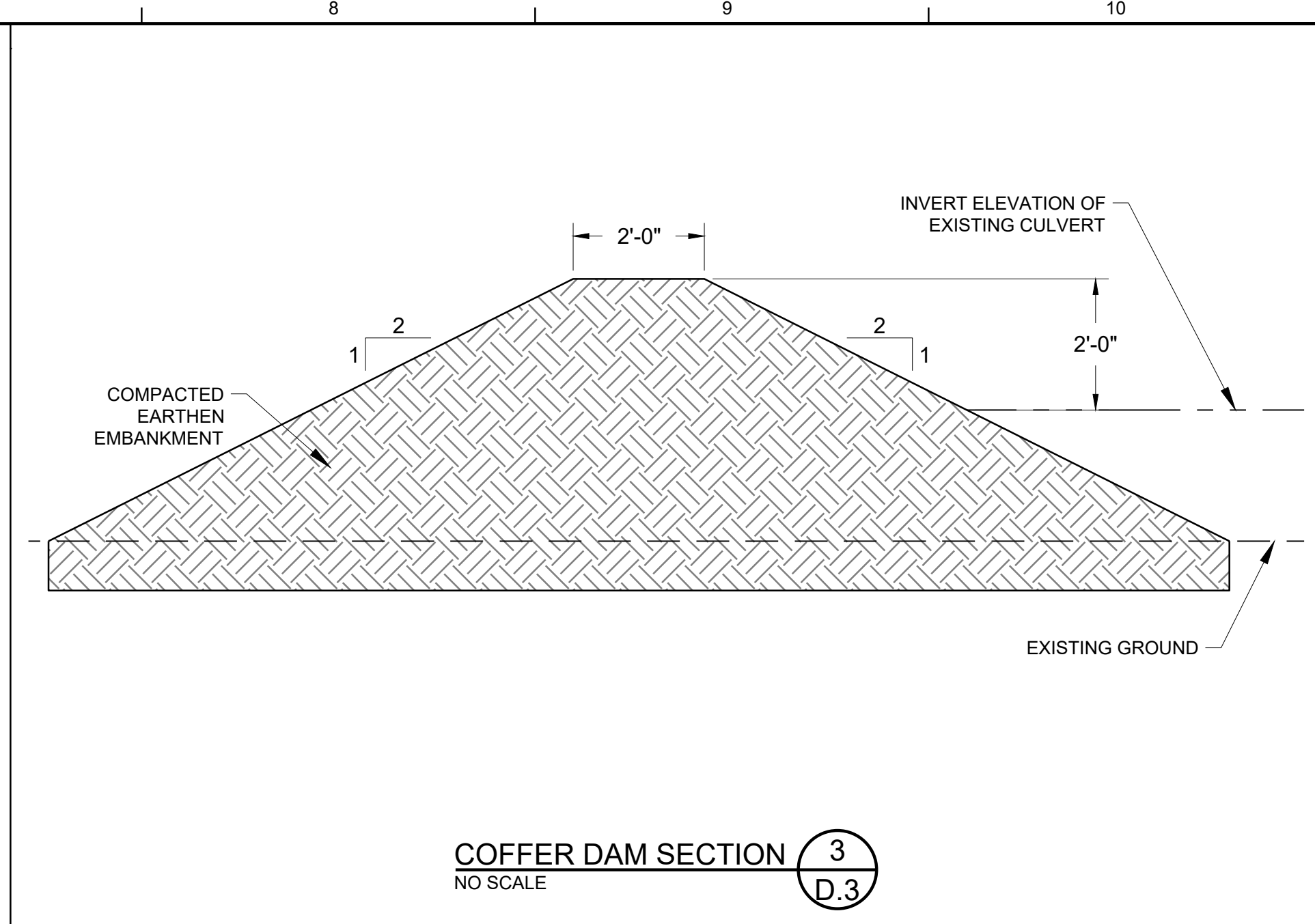
ENGINEER'S SEAL



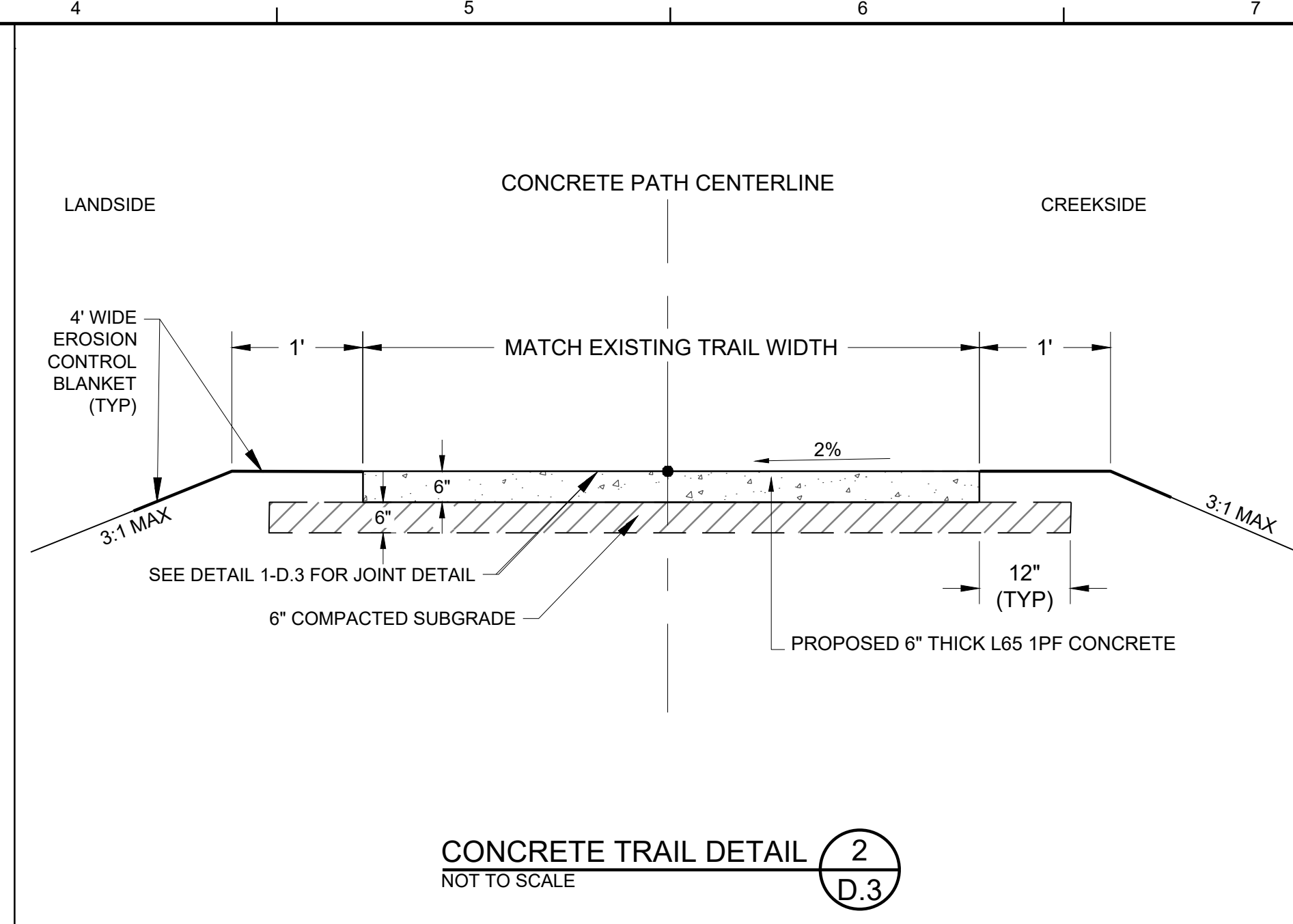
| REVISIONS | |
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| NO. | DATE |
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DESIGNED BY: MCR
DRAWN BY: CDF
QA / QC BY: MKS
PROJECT NO.: 001-19-07
DATE: 12.14.2021

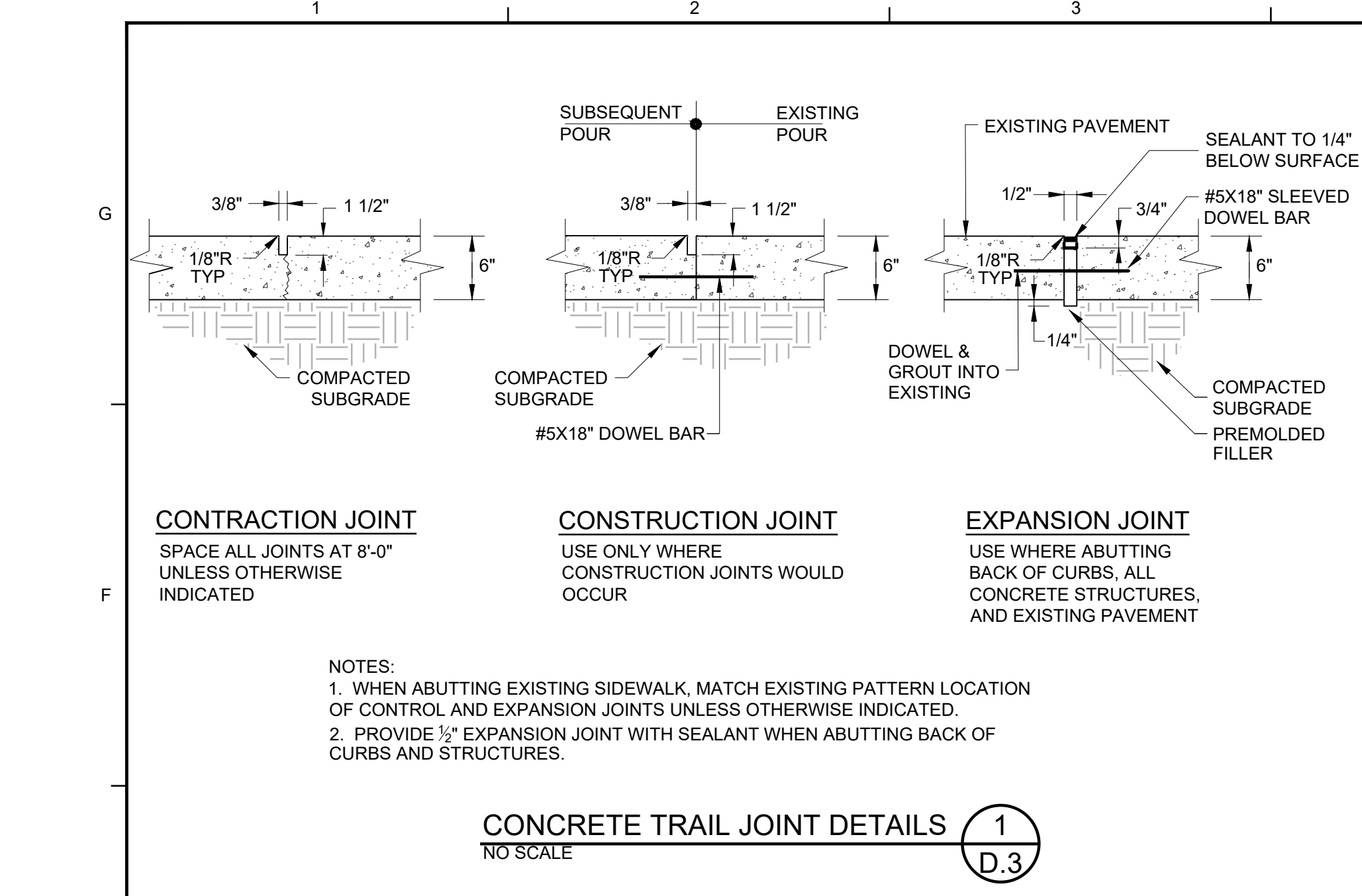
TITLE
DETAILS



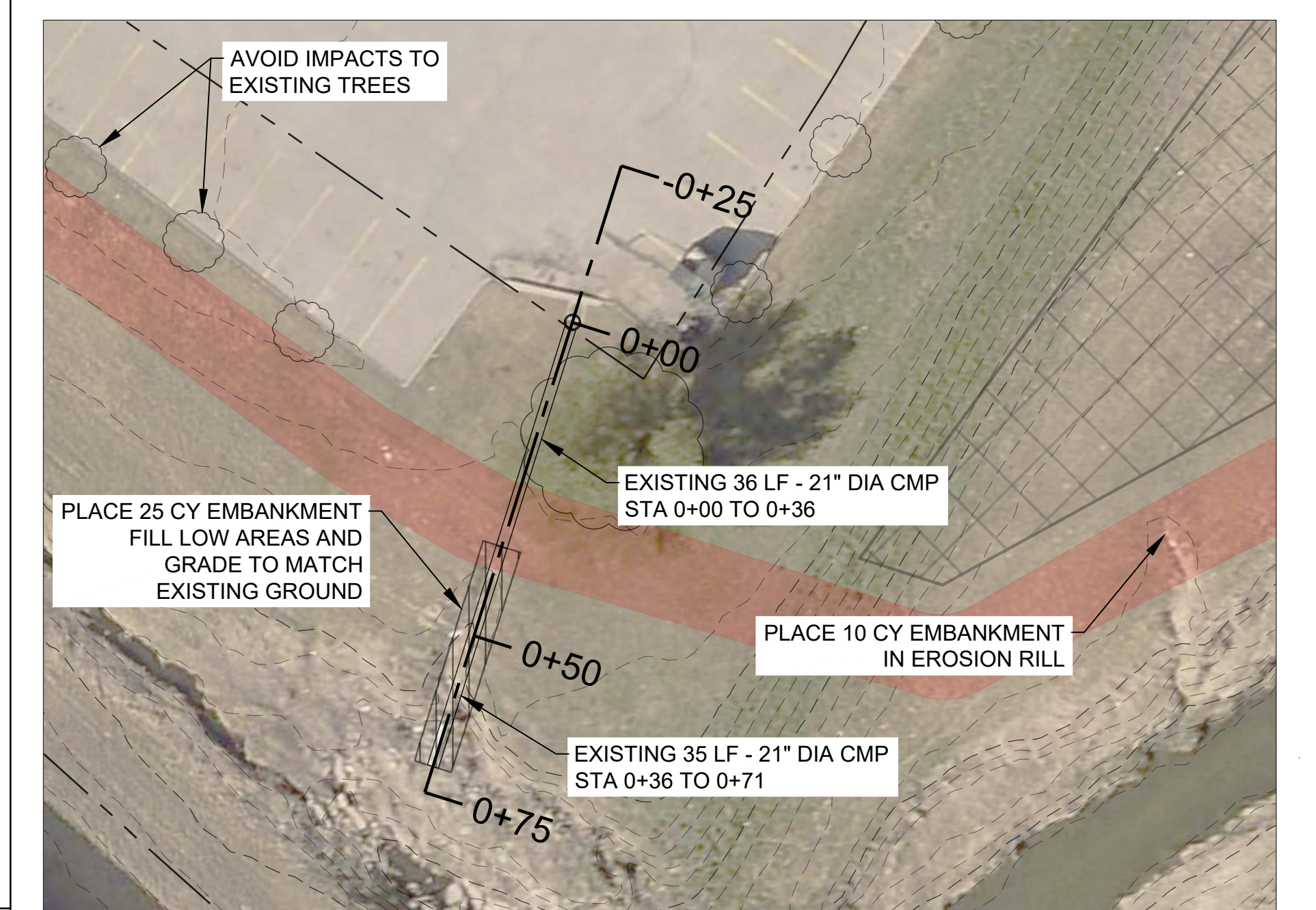
COFFER DAM SECTION 3
NO SCALE
D.3



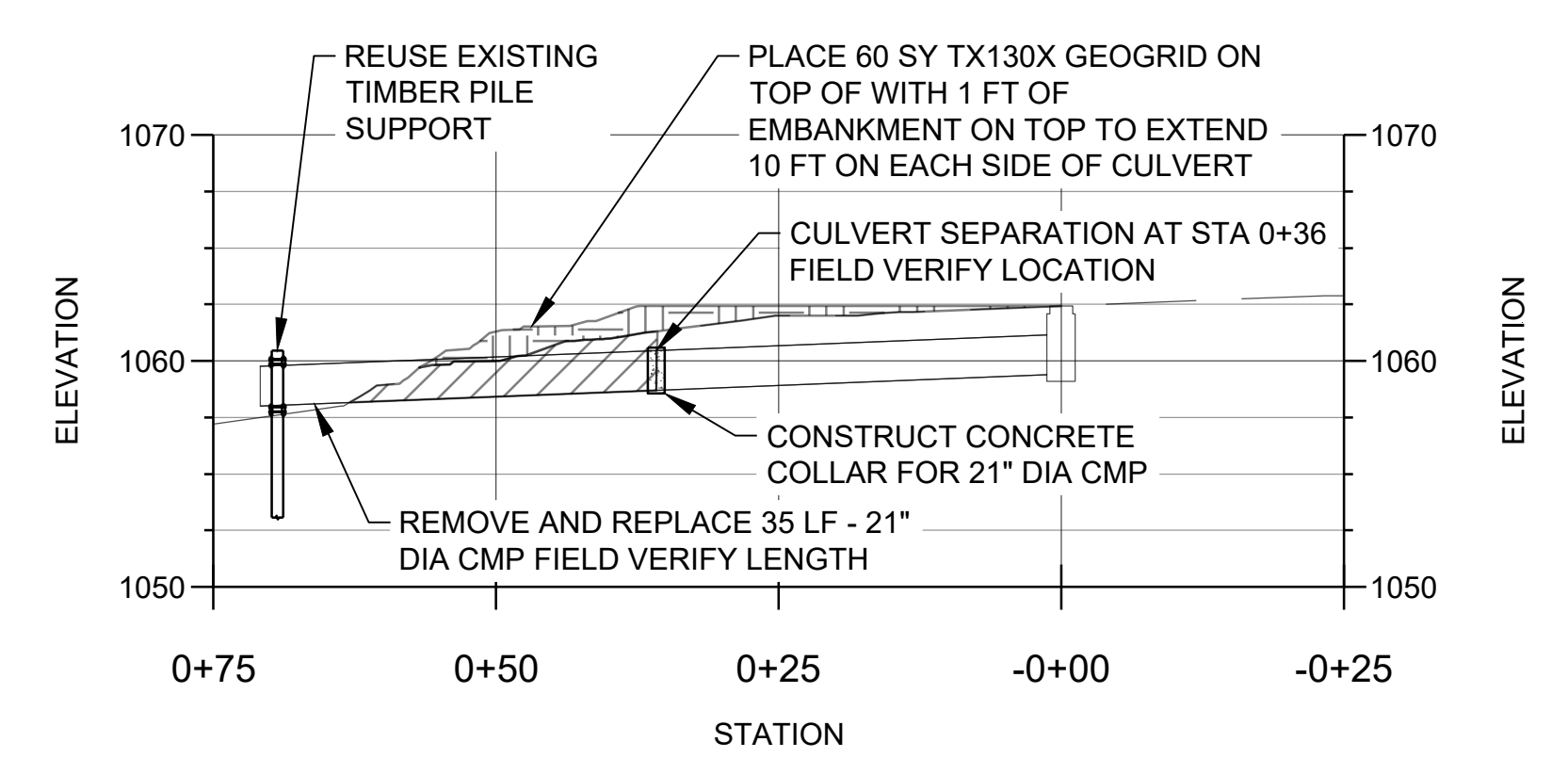
CONCRETE TRAIL DETAIL 2
NOT TO SCALE
D.3



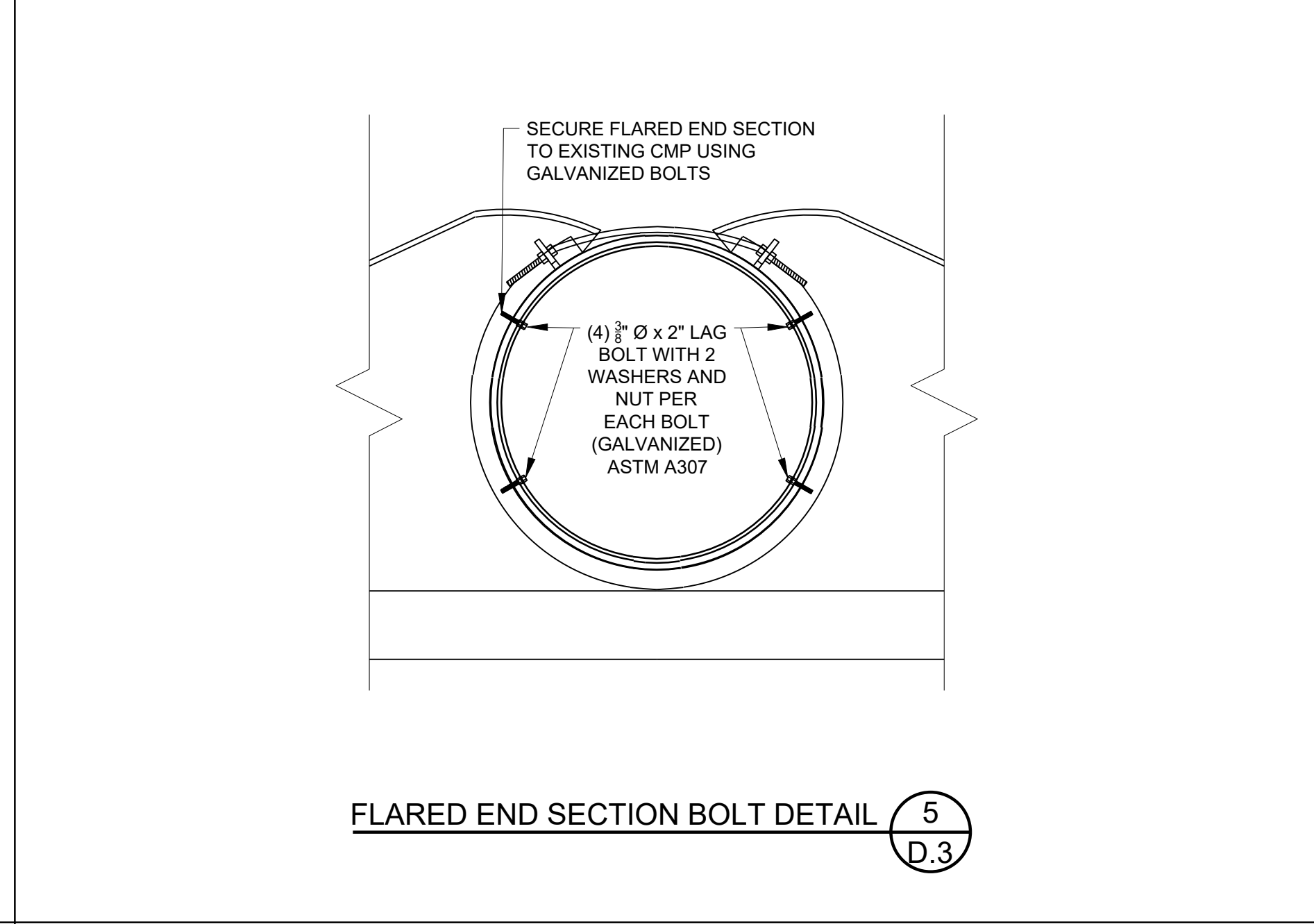
CONCRETE TRAIL JOINT DETAILS 1
NO SCALE
D.3



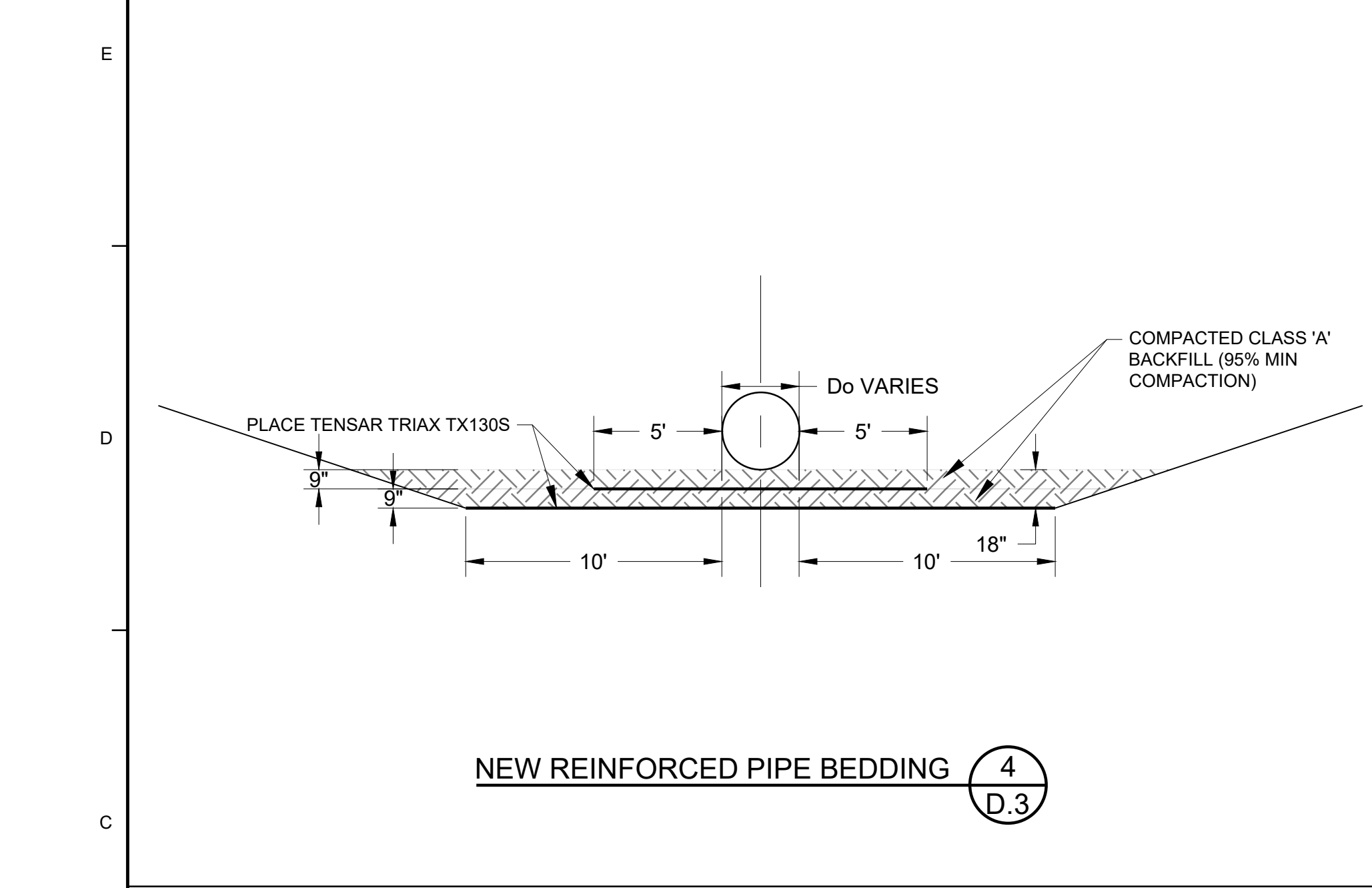
PLAN VIEW



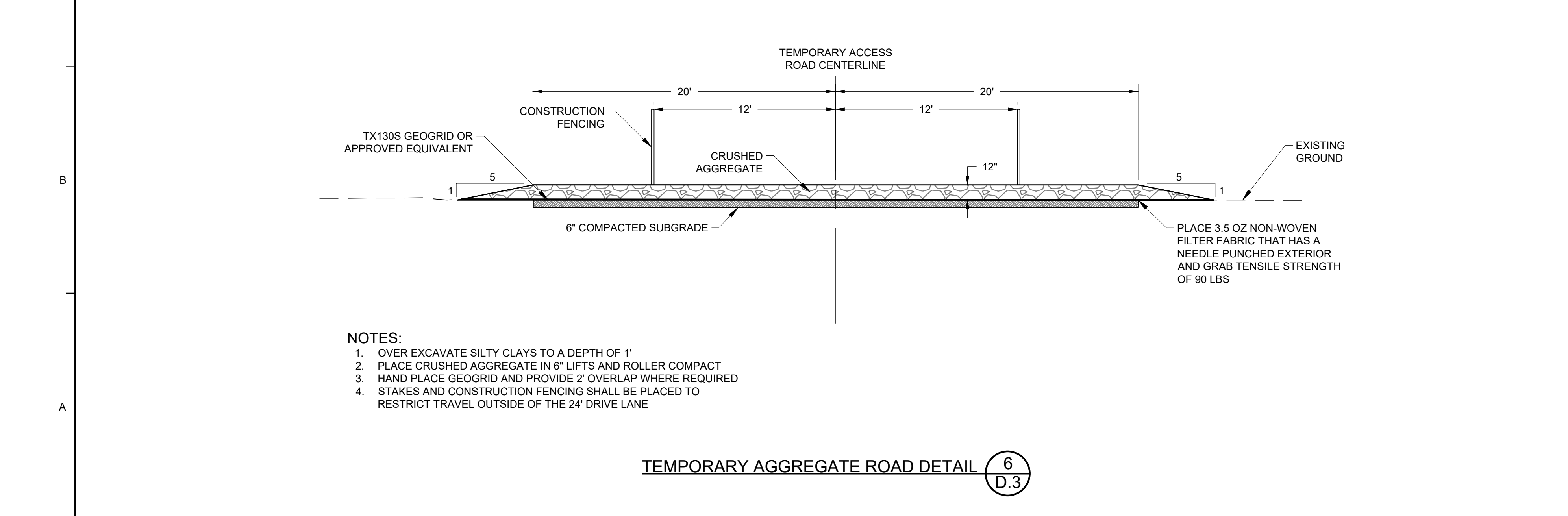
LP-L84 ACCESS ROUTE CULVERT REPAIR 7
D.3



FLARED END SECTION BOLT DETAIL 5
D.3



NEW REINFORCED PIPE BEDDING 4
D.3



TEMPORARY AGGREGATE ROAD DETAIL 6
D.3

- NOTES:
1. OVER EXCAVATE SILTY CLAYS TO A DEPTH OF 1'
 2. PLACE CRUSHED AGGREGATE IN 6" LIFTS AND ROLLER COMPACT
 3. HAND PLACE GEOGRID AND PROVIDE 2' OVERLAP WHERE REQUIRED
 4. STAKES AND CONSTRUCTION FENCING SHALL BE PLACED TO RESTRICT TRAVEL OUTSIDE OF THE 24' DRIVE LANE

BID FORM

PAPIO-MISSOURI RIVER NATURAL RESOURCES DISTRICT

**LITTLE PAPIO CREEK/CHANNEL CULVERTS CONSTRUCTION PROJECT
(GROUP A CULVERTS) NRD PROJECT NUMBER 532**

ARTICLE 1 – BID RECIPIENT

- 1.1 This Bid is submitted to:
Papio-Missouri River Natural Resources District
8901 South 154th Street, Omaha, NE 68138
- 1.2 The undersigned Bidder proposes and agrees, if this Bid is accepted, to enter into an Agreement with Owner in the form included in the Bidding Documents to perform all Work as specified or indicated in the Bidding Documents for the prices and within the times indicated in this Bid and in accordance with the other terms and conditions of the Bidding Documents.

ARTICLE 2 – BIDDER’S ACKNOWLEDGEMENTS

- 2.1 Bidder accepts all of the terms and conditions of the Instructions to Bidders, including without limitation those dealing with the disposition of Bid security. This Bid will remain subject to acceptance for 60 days after the Bid opening, or for such longer period of time that Bidder may agree to in writing upon request of Owner.

ARTICLE 3 – BIDDER’S REPRESENTATIONS

- 3.1 In submitting this Bid, Bidder represents that:
 - A. Bidder has examined and carefully studied the Bidding Documents, and any data and reference items identified in the Bidding Documents, and hereby acknowledges receipt of the following Addenda:

| <u>Addendum No.</u> | <u>Addendum, Date</u> |
|---------------------|-----------------------|
| _____ | _____ |
| _____ | _____ |
| _____ | _____ |
| _____ | _____ |

- B. Bidder has visited the Site, conducted a thorough, alert visual examination of the Site and adjacent areas, and become familiar with and satisfied itself as to the general, local, and Site conditions that may affect cost, progress, and performance of the Work.
- C. Bidder is familiar with and has satisfied itself as to all Laws and Regulations that may affect cost, progress, and performance of the Work.
- D. Bidder has carefully studied all: (1) reports of explorations and tests of subsurface conditions at or adjacent to the Site and all drawings of physical conditions relating to existing surface or subsurface structures at the Site that have been identified in the Supplementary Conditions, especially with respect to Technical Data in such reports and drawings, and (2) reports and drawings relating to Hazardous Environmental Conditions, if any, at or adjacent to the Site that have been identified in the Supplementary Conditions, especially with respect to Technical Data in such reports and drawings.
- E. Bidder has considered the information known to Bidder itself; information commonly known to

contractors doing business in the locality of the Site; information and observations obtained from visits to the Site; the Bidding Documents; and any Site-related reports and drawings identified in the Bidding Documents, with respect to the effect of such information, observations, and documents on (1) the cost, progress, and performance of the Work; (2) the means, methods, techniques, sequences, and procedures of construction to be employed by Bidder; and (3) Bidder's safety precautions and programs.

- F. Bidder agrees, based on the information and observations referred to in the preceding paragraph, that no further examinations, investigations, explorations, tests, studies, or data are necessary for the determination of this Bid for performance of the Work at the price bid and within the times required, and in accordance with the other terms and conditions of the Bidding Documents.
- G. Bidder is aware of the general nature of work to be performed by Owner and others at the Site that relates to the Work as indicated in the Bidding Documents.
- H. Bidder has given Engineer written notice of all conflicts, errors, ambiguities, or discrepancies that Bidder has discovered in the Bidding Documents, and confirms that the written resolution thereof by Engineer is acceptable to Bidder.
- I. The Bidding Documents are generally sufficient to indicate and convey understanding of all terms and conditions for the performance and furnishing of the Work.
- J. The submission of this Bid constitutes an incontrovertible representation by Bidder that Bidder has complied with every requirement of this Article, and that without exception the Bid and all prices in the Bid are premised upon performing and furnishing the Work required by the Bidding Documents.

ARTICLE 4 – BIDDER'S CERTIFICATION

4.1 Bidder certifies that:

- A. This Bid is genuine and not made in the interest of or on behalf of any undisclosed individual or entity and is not submitted in conformity with any collusive agreement or rules of any group, association, organization, or corporation;
- B. Bidder has not directly or indirectly induced or solicited any other Bidder to submit a false or sham Bid;
- C. Bidder has not solicited or induced any individual or entity to refrain from bidding; and
- D. Bidder has not engaged in corrupt, fraudulent, collusive, or coercive practices in competing for the Contract. For the purposes of this Paragraph 4.01.D:
 - 1. "corrupt practice" means the offering, giving, receiving, or soliciting of any thing of value likely to influence the action of a public official in the bidding process;
 - 2. "fraudulent practice" means an intentional misrepresentation of facts made (a) to influence the bidding process to the detriment of Owner, (b) to establish bid prices at artificial non-competitive levels, or (c) to deprive Owner of the benefits of free and open competition;
 - 3. "collusive practice" means a scheme or arrangement between two or more Bidders, with or without the knowledge of Owner, a purpose of which is to establish bid prices at artificial, non-competitive levels; and

4. "coercive practice" means harming or threatening to harm, directly or indirectly, persons or their property to influence their participation in the bidding process or affect the execution of the Contract.

ARTICLE 5 – BASIS OF BID

5.01 Bidder will complete the Work in accordance with the Contract Documents for the following price(s):

BASE BID 1 – CITY OF OMAHA CULVERTS

| ITEM NO | ITEM DESCRIPTION | UNIT | ESTIMATED QUANTITY | BID UNIT PRICE | BID PRICE |
|---------|---|------|--------------------|----------------|-----------|
| 1.001 | MOBILIZATION | LS | 10 | | |
| 1.002 | STABILIZED CONSTRUCTION ENTRANCE | EA | 2 | | |
| 1.003 | CONSTRUCTION FENCE | LF | 2941 | | |
| 1.004 | TEMPORARY TRAFFIC CONTROL | LS | 8 | | |
| 1.005 | SWPPP MEASURES | LS | 10 | | |
| 1.006 | DEWATERING | LS | 10 | | |
| 1.007 | CLEARING AND GRUBBING | LS | 10 | | |
| 1.008 | TENSAR TRIAX TS130X GEOGRID | SY | 242 | | |
| 1.009 | SHORING TRENCH STABILIZATION | LS | 2 | | |
| 1.010 | CLEAN AND JET 24" CULVERT | LF | 93 | | |
| 1.011 | CLEAN AND JET 30" CULVERT | LF | 117 | | |
| 1.012 | CLEAN AND JET 42" CULVERT | LF | 89 | | |
| 1.013 | CLEAN AND JET 48" CULVERT | LF | 219 | | |
| 1.014 | CLEAN AND JET 54" CULVERT | LF | 217 | | |
| 1.015 | EXCAVATION | CY | 4298 | | |
| 1.016 | DEGRADED RIPRAP REMOVAL AT OUTLET | CY | 1700 | | |
| 1.017 | EMBANKMENT | CY | 6018 | | |
| 1.018 | EARTHWORK (BORROW) | CY | 1800 | | |
| 1.019 | STRIP, STOCKPILE AND REPLACE 6" TOPSOIL | SY | 2509 | | |
| 1.020 | REMOVE AND HAUL OFF RUBBLE | LS | 1 | | |
| 1.021 | REMOVE TREE | EA | 4 | | |
| 1.022 | REMOVE TIMBER RETAINING WALL | LF | 40 | | |

| ITEM NO | ITEM DESCRIPTION | UNIT | ESTIMATED QUANTITY | BID UNIT PRICE | BID PRICE |
|---------|--|------|--------------------|----------------|-----------|
| 1.023 | REMOVE BOLLARD | EA | 2 | | |
| 1.024 | REMOVE 21" DIA CMP CULVERT | LF | 36 | | |
| 1.025 | REMOVE 24" DIA CMP CULVERT | LF | 111 | | |
| 1.026 | REMOVE 30" DIA CMP CULVERT | LF | 101 | | |
| 1.027 | REMOVE 36" DIA CMP CULVERT | LF | 45 | | |
| 1.028 | REMOVE 42" DIA CMP CULVERT | LF | 44 | | |
| 1.029 | REMOVE 48" DIA CMP CULVERT | LF | 8 | | |
| 1.030 | REMOVE 54" DIA CMP CULVERT | LF | 117 | | |
| 1.031 | REMOVE CONCRETE COLLAR | EA | 1 | | |
| 1.032 | REMOVE SINGLE TIMBER PILE PIPE SUPPORT | EA | 3 | | |
| 1.033 | REMOVE DOUBLE TIMBER PILE PIPE SUPPORT | EA | 4 | | |
| 1.034 | REMOVE AND REPLACE 6" CONCRETE TRAIL | SF | 25880 | | |
| 1.035 | REMOVE AND REPLACE 9" THICK CONCRETE PAVEMENT | SF | 271 | | |
| 1.036 | REMOVE AND REPLACE COMBINATION CURB AND GUTTER | LF | 65 | | |
| 1.037 | REMOVE AND REPLACE INTEGRAL CURB | LF | 33 | | |
| 1.038 | REMOVE AND REPLACE ASPHALT PAVEMENT | SF | 1925 | | |
| 1.039 | REMOVE AND REPLACE AGGREGATE SURFACING | CY | 5 | | |
| 1.040 | REMOVE SALVAGE AND REPLACE CHAIN LINK FENCE | LF | 225 | | |
| 1.041 | REMOVE AND REPLACE SPRINKLERS | LF | 2355 | | |
| 1.042 | REMOVE AND RESET GUARDRAIL | LF | 82 | | |
| 1.043 | REMOVE AND REPLACE CONCRETE RETAINING WALL | LF | 34 | | |
| 1.044 | REMOVE AND REPLACE CONCRETE STAMPED BRIDGE APRON | SY | 20 | | |
| 1.045 | REMOVE AND REPLACE TYPE B/C RIPRAP AND GABION BASKET | TON | 30 | | |
| 1.046 | GROUT TO FILL VOIDS | CY | 2 | | |
| 1.047 | TAP EXISTING AREA INLET | EA | 1 | | |

| ITEM NO | ITEM DESCRIPTION | UNIT | ESTIMATED QUANTITY | BID UNIT PRICE | BID PRICE |
|---------|----------------------------------|------|--------------------|----------------|-----------|
| 1.048 | TAP 36" DIA RCP | EA | 1 | | |
| 1.049 | MAINTAIN EXISTING PIPE TAP | EA | 1 | | |
| 1.050 | 21" DIA CMP | LF | 36 | | |
| 1.051 | 24" DIA CMP | LF | 111 | | |
| 1.052 | 30" DIA CMP | LF | 101 | | |
| 1.053 | 36" DIA CMP | LF | 44 | | |
| 1.054 | 42" DIA CMP | LF | 44 | | |
| 1.055 | 48" DIA CMP | LF | 8 | | |
| 1.056 | 54" DIA CMP | LF | 117 | | |
| 1.057 | 24" DIA CMP BEND | EA | 3 | | |
| 1.058 | 30" DIA CMP BEND | EA | 3 | | |
| 1.059 | 36" DIA CMP BEND | EA | 2 | | |
| 1.060 | 54" DIA CMP BEND | EA | 3 | | |
| 1.061 | 24" OD HDPE SLIPLINING | LF | 75 | | |
| 1.062 | 42" OD HDPE SLIPLINING | LF | 227 | | |
| 1.063 | 48" OD HDPE SLIPLINING | LF | 92 | | |
| 1.064 | GROUT FOR HDPE SLIPLINING | CY | 48 | | |
| 1.065 | CIPP LINING FOR 24" DIA CULVERT | LF | 201 | | |
| 1.066 | CIPP LINING FOR 30" DIA CULVERT | LF | 143 | | |
| 1.067 | CIPP LINING FOR 36" DIA CULVERT | LF | 44 | | |
| 1.068 | CIPP LINING FOR 42" DIA CULVERT | LF | 133 | | |
| 1.069 | CIPP LINING FOR 54" DIA CULVERT | LF | 242 | | |
| 1.070 | 72" DIA MANHOLE | VF | 20 | | |
| 1.071 | 21" CONCRETE COLLAR | EA | 1 | | |
| 1.072 | 42" CONCRETE COLLAR | EA | 1 | | |
| 1.073 | 54" CONCRETE COLLAR | EA | 2 | | |
| 1.074 | JOINT REPAIR FOR 36" DIA CULVERT | EA | 22 | | |
| 1.075 | JOINT REPAIR FOR 54" DIA CULVERT | EA | 6 | | |

| ITEM NO | ITEM DESCRIPTION | UNIT | ESTIMATED QUANTITY | BID UNIT PRICE | BID PRICE |
|---------|---------------------------------|------|--------------------|----------------|-----------|
| 1.076 | CONSTRUCT RETAINING WALL | LF | 40 | | |
| 1.077 | INSTALL BOLLARD | EA | 2 | | |
| 1.078 | FLAP GATE FOR 42" DIA CULVERT | EA | 1 | | |
| 1.079 | SINGLE TIMBER PILE PIPE SUPPORT | EA | 4 | | |
| 1.080 | DOUBLE TIMBER PILE PIPE SUPPORT | EA | 4 | | |
| 1.081 | 6" RIPRAP BEDDING MATERIAL | SY | 1400 | | |
| 1.082 | TYPE "C" RIPRAP | TN | 2107 | | |
| 1.083 | TYPE "B" RIPRAP | TN | 630 | | |
| 1.084 | SEEDING | AC | 10 | | |
| 1.085 | SODDING | SY | 2111 | | |
| 1.086 | EROSION CONTROL BLANKET | SY | 6814 | | |

BASE BID 2 – NRD CULVERTS

| ITEM NO | ITEM DESCRIPTION | UNIT | ESTIMATED QUANTITY | BID UNIT PRICE | BID PRICE |
|---------|----------------------------------|------|--------------------|----------------|-----------|
| 2.001 | MOBILIZATION | LS | 11 | | |
| 2.002 | STABILIZED CONSTRUCTION ENTRANCE | EA | 5 | | |
| 2.003 | CONSTRUCTION FENCE | LF | 858 | | |
| 2.004 | TEMPORARY COFFER DAM | LS | 1 | | |
| 2.005 | TEMPORARY TRAFFIC CONTROL | LS | 4 | | |
| 2.006 | SWPPP MEASURES | LS | 7 | | |
| 2.007 | DEWATERING | LS | 11 | | |
| 2.008 | CLEARING AND GRUBBING | LS | 11 | | |
| 2.009 | TENSAR TRIAX TS130X GEOGRID | SY | 1155 | | |
| 2.010 | 6" CRUSHED ROCK SURFACING | SY | 561 | | |
| 2.011 | CLEAN AND JET 18" CULVERT | LF | 175 | | |
| 2.012 | CLEAN AND JET 30" CULVERT | LF | 54 | | |
| 2.013 | CLEAN AND JET 42" CULVERT | LF | 117 | | |
| 2.014 | CLEAN AND JET 60" CULVERT | LF | 61 | | |

| ITEM NO | ITEM DESCRIPTION | UNIT | ESTIMATED QUANTITY | BID UNIT PRICE | BID PRICE |
|---------|---|------|--------------------|----------------|-----------|
| 2.015 | EXCAVATION | CY | 2314 | | |
| 2.016 | DEGRADED RIPRAP REMOVAL AT OUTLET | CY | 1200 | | |
| 2.017 | EMBANKMENT | CY | 3240 | | |
| 2.018 | EARTHWORK (BORROW) | CY | 1096 | | |
| 2.019 | STRIP, STOCKPILE AND REPLACE 6" TOPSOIL | SY | 1400 | | |
| 2.020 | REMOVE TREE | EA | 3 | | |
| 2.021 | REMOVE DEBRIS | LS | 1 | | |
| 2.022 | REMOVE GUARD RAIL | LS | 1 | | |
| 2.023 | REMOVE 15" DIA CMP CULVERT | LF | 31 | | |
| 2.024 | REMOVE 18" DIA CMP CULVERT | LF | 117 | | |
| 2.025 | REMOVE 24" DIA CMP CULVERT | LF | 202 | | |
| 2.026 | REMOVE 30" DIA CMP CULVERT | LF | 15 | | |
| 2.027 | REMOVE 36" DIA CMP CULVERT | LF | 67 | | |
| 2.028 | REMOVE 48" DIA CMP CULVERT | LF | 64 | | |
| 2.029 | REMOVE 60" DIA CMP CULVERT | LF | 32 | | |
| 2.030 | REMOVE 42" DIA RCP CULVERT | LF | 33 | | |
| 2.031 | REMOVE CONCRETE COLLAR | EA | 1 | | |
| 2.032 | REMOVE FLAP GATE FOR 36" DIA CULVERT | EA | 1 | | |
| 2.033 | REMOVE AND REINSTALL 60" DIA FLARED END SECTION | EA | 1 | | |
| 2.034 | REMOVE SINGLE TIMBER PILE PIPE SUPPORT | EA | 9 | | |
| 2.035 | REMOVE DOUBLE TIMBER PILE PIPE SUPPORT | EA | 1 | | |
| 2.036 | REMOVE AND REPLACE 4" CONCRETE SIDEWALK | SF | 146 | | |
| 2.037 | REMOVE AND REPLACE 6" CONCRETE TRAIL | SF | 333 | | |
| 2.038 | REMOVE AND REPLACE CONCRETE PAVEMENT | SF | 577 | | |
| 2.039 | REMOVE AND REPLACE COMBINATION CURB AND GUTTER | LF | 30 | | |
| 2.040 | REMOVE AND REPLACE ASPHALT PAVEMENT | SF | 1725 | | |

| ITEM NO | ITEM DESCRIPTION | UNIT | ESTIMATED QUANTITY | BID UNIT PRICE | BID PRICE |
|---------|-------------------------------------|------|--------------------|----------------|-----------|
| 2.041 | REMOVE AND REPLACE CHAIN LINK FENCE | LF | 50 | | |
| 2.042 | REMOVE AND RESET GUARDRAIL | LF | 20 | | |
| 2.043 | GROUT TO FILL VOIDS | CY | 6 | | |
| 2.044 | FLOWABLE FILL FOR PIPE ABANDONMENT | CY | 6 | | |
| 2.045 | TYPE I AREA INLET TOP | EA | 1 | | |
| 2.046 | TAP EXISTING AREA INLET | EA | 6 | | |
| 2.047 | TAP EXISTING INLET | EA | 1 | | |
| 2.048 | 18" DIA CMP | LF | 19 | | |
| 2.049 | 24" DIA CMP | LF | 324 | | |
| 2.050 | 30" DIA CMP | LF | 20 | | |
| 2.051 | 36" DIA CMP | LF | 67 | | |
| 2.052 | 48" DIA CMP | LF | 58 | | |
| 2.053 | 60" DIA CMP | LF | 32 | | |
| 2.054 | 18" DIA CMP BEND | EA | 1 | | |
| 2.055 | 24" DIA CMP BEND | EA | 6 | | |
| 2.056 | 30" DIA CMP BEND | EA | 1 | | |
| 2.057 | 36" DIA CMP BEND | EA | 1 | | |
| 2.058 | 48" DIA CMP BEND | EA | 2 | | |
| 2.059 | 60" DIA CMP BEND | EA | 1 | | |
| 2.060 | 4" DIA PVC | LF | 120 | | |
| 2.061 | 6" DIA PVC | LF | 395 | | |
| 2.062 | 8" DIA PVC | LF | 200 | | |
| 2.063 | 10" DIA PVC | LF | 227 | | |
| 2.064 | 45° ELBOW FOR 4" PVC | EA | 36 | | |
| 2.065 | 30° ELBOW FOR 10" PVC | EA | 1 | | |
| 2.066 | 90° ELBOW FOR 6" PVC | EA | 2 | | |
| 2.067 | 6" PVC TEE | EA | 10 | | |
| 2.068 | 8" PVC TEE | EA | 5 | | |

| ITEM NO | ITEM DESCRIPTION | UNIT | ESTIMATED QUANTITY | BID UNIT PRICE | BID PRICE |
|---------|----------------------------------|------|--------------------|----------------|-----------|
| 2.069 | 10" PVC TEE | EA | 5 | | |
| 2.070 | 6" PVC TEE WITH SIDE INLET | EA | 1 | | |
| 2.071 | 4" TO 6" PVC REDUCER | EA | 10 | | |
| 2.072 | 4" TO 8" PVC REDUCER | EA | 4 | | |
| 2.073 | 4" TO 10" PVC REDUCER | EA | 4 | | |
| 2.074 | 6" TO 8" PVC REDUCER | EA | 1 | | |
| 2.075 | 8" TO 10" PVC REDUCER | EA | 1 | | |
| 2.076 | 4" PVC DOWNSPOUT ADAPTER | EA | 18 | | |
| 2.077 | 6" PVC CLEANOUT ADAPTER W/ PLUG | EA | 4 | | |
| 2.078 | 8" PVC CLEANOUT ADAPTER W/ PLUG | EA | 1 | | |
| 2.079 | 10" PVC CLEANOUT ADAPTER W/ PLUG | EA | 1 | | |
| 2.080 | CIPP LINING FOR 18" DIA CULVERT | LF | 97 | | |
| 2.081 | CIPP LINING FOR 24" DIA CULVERT | LF | 324 | | |
| 2.082 | CIPP LINING FOR 30" DIA CULVERT | LF | 74 | | |
| 2.083 | CIPP LINING FOR 36" DIA CULVERT | LF | 67 | | |
| 2.084 | CIPP LINING FOR 48" DIA CULVERT | LF | 58 | | |
| 2.085 | CIPP LINING FOR 60" DIA CULVERT | LF | 93 | | |
| 2.086 | 42" PIPE PLUG | EA | 2 | | |
| 2.087 | 54" DIA MANHOLE | VF | 10 | | |
| 2.088 | 72" DIA MANHOLE | VF | 13 | | |
| 2.089 | JOINT REPAIR FOR 42" DIA CULVERT | EA | 16 | | |
| 2.090 | REPAIR GRATE INLET | EA | 1 | | |
| 2.091 | FLAP GATE FOR 36" DIA CULVERT | EA | 1 | | |
| 2.092 | SINGLE TIMBER PILE PIPE SUPPORT | EA | 8 | | |
| 2.093 | DOUBLE TIMBER PILE PIPE SUPPORT | EA | 1 | | |
| 2.094 | 6" RIPRAP BEDDING MATERIAL | SY | 1260 | | |
| 2.095 | TYPE "A/B" RIPRAP | TN | 16 | | |
| 2.096 | TYPE "C" RIPRAP | TN | 1976 | | |

| ITEM NO | ITEM DESCRIPTION | UNIT | ESTIMATED QUANTITY | BID UNIT PRICE | BID PRICE |
|---------|-------------------------|------|--------------------|----------------|-----------|
| 2.097 | TYPE "B" RIPRAP | TN | 592 | | |
| 2.098 | SEEDING | AC | 9 | | |
| 2.099 | EROSION CONTROL BLANKET | SY | 10388 | | |

| DESCRIPTION | TOTAL BID |
|-------------------------------------|-----------|
| Base Bid 1 – City of Omaha Culverts | |
| Base Bid 2 – NRD Culverts | |
| TOTAL PROJECT BID | |

Bidder acknowledges that (1) each Bid Unit Price and Item Lump Sum includes an amount considered by Bidder to be adequate to cover Contractor's overhead and profit for each separately identified item, and (2) estimated quantities are not guaranteed, and are solely for the purpose of comparison of Bids, and final payment for all unit price Bid items will be based on actual quantities, determined as provided in the Contract Documents.

ARTICLE 6 – TIME OF COMPLETION

- 6.1 Bidder agrees that the Work will be substantially complete and will be completed and ready for final payment in accordance with Paragraph 15.06 of the General Conditions on or before the dates or within the number of calendar days indicated in the Agreement.
- 6.2 Bidder accepts the provisions of the Agreement as to liquidated damages.

ARTICLE 7 – ATTACHMENTS TO THIS BID

- 7.1 **The following documents are submitted with and made a condition of this Bid:**
 - A. **Required Bid security; and**
 - B. **List of Proposed Subcontractors.**

ARTICLE 8 – DEFINED TERMS

- 8.1 The terms used in this Bid with initial capital letters have the meanings stated in the Instructions to Bidders, the General Conditions, and the Supplementary Conditions.

ARTICLE 9 – BID SUBMITTAL

BIDDER: *[Indicate correct name of bidding entity]*

By:
[Signature] _____

[Printed name] _____

(If Bidder is a corporation, a limited liability company, a partnership, or a joint venture, attach evidence of authority to sign.)

Attest:
[Signature] _____

[Printed name] _____

Title: _____

Address for giving notices:

Telephone Number: _____

Fax Number: _____

Contact Name and e-mail address: _____

Bidder's License No.: _____
(where applicable)

NOTE TO USER: Use in those states or other jurisdictions where applicable or required.

**SECTION 02275
RIPRAP**

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Furnish and place rock riprap where indicated on the drawings.
- B. Subgrade preparation.
- C. Grouting in place where indicated on the drawings.

1.2 RELATED STUDIES

- A. All sections.

1.3 MEASUREMENT AND PAYMENT

- A. Section 01019-Contract Considerations.

1.4 QUALITY ASSURANCE

- A. Test for bulk specific gravity and absorption of riprap materials in accordance with ASTM C127.
- B. Test for soundness of riprap materials in accordance with ASTM C88.

1.5 SUBMITTALS

- A. Section 01300-Submittals: Procedure for submittals.
- B. Submit gradation analysis of proposed riprap material.
- C. Submit a notarized certificate from supplier that riprap source is approved to provide materials for Nebraska Department of Transportation work and complies with Contract Document requirements.
- D. Submit supplier's laboratory certification that riprap material from the proposed source conforms to specification requirements for specific gravity, absorption, and soundness.

PART 2 PRODUCTS

2.1 ROCK RIPRAP

A. Individual rock fragments shall be dense, sound and free from cracks, seams and other defects conducive to accelerated weathering.

B. Rock fragments shall be angular to sub-rounded in shape.

C. Least dimension of a fragment shall not be less than one-third the greatest dimension of the fragment.

D. Bulk specific gravity (saturated surface-dry basis) not less than 2.5 as determined by ASTM C127.

E. Absorption not more than 2 percent as determined by ASTM Method C127.

F. Rock riprap shall not have a soundness loss greater than 10 percent in 12 freezing and thawing cycles. The combined loss of soundness in magnesium sulfate at 5 cycles shall not exceed 5 percent, in accordance with ASTM C88.

G. Rock Riprap: Gradation(s) as indicated on the drawings and Bid Form for Rock Riprap shall conform to Nebraska Department of Transportation Type B or Type C riprap gradation and material requirements as per Section 905.02 of the 2017 Standard Specifications for Highway Construction and the Nebraska Department of Transportation Drainage Design and Erosion Control Manual section 7.A:

Type B

| Size of Rock | % of Total Weight Smaller than Given Size |
|---------------------|--|
| 300lb. | 100 |
| 80lb. | 50 |
| 5lb. | Less than 10 |

Median Diameter (D₅₀): 1.02 ft

Maximum Diameter (D₁₀₀): 1.61 ft

Type C

| Size of Rock | % of Total Weight Smaller than Given Size |
|---------------------|--|
| 700lb. | 100 |
| 150lb. | 50 |
| 10lb. | Less than 10 |

Median Diameter (D₅₀): 1.28 ft

Maximum Diameter (D₁₀₀): 2.12 ft

H. Allowable Quarries: Martin Marietta Fort Calhoun, Weeping Water and Winterset Quarries; Kerford Limestone; all quarries that mine quartzite. Materials will be inspected by the project engineer to determine that provided material appears to match the approved submittal material.

PART 3 EXECUTION

3.1 EXAMINATION

A. Verify stockpiled riprap material is acceptable to Engineer.

3.2 PREPARATION

A. Excavate subgrade in accordance with Section 02222- Excavating, for placement of rock riprap to indicated depth with finished surface at lines and grades indicated on the drawings.

B. Remove all sharp or protruding objects from subgrade surface.

C. Install filter fabric in accordance with Section 02246-Geotextiles and drawings.

3.3 PLACEMENT

A. Place riprap at the locations and to the depths indicated on the drawings.

B. Construct riprap to the full course thickness in one operation and in such a manner as to avoid significant displacement of the underlying materials.

C. Place riprap such that material in place is reasonably homogeneous with larger fragments uniformly distributed, firmly in contact one to another with smaller fragments and spalls filling voids between larger fragments.

D. Place riprap in a manner to prevent damage to structures. Zero drop height placement procedures are to be utilized for riprap stone to avoid displacing or damaging riprap and the underlying bedding. Dumping of stone at the top of slopes and rolling or pushing into place will not be permitted. Manipulating or moving stone at any time prior to placement by means of dozers or other blade equipment will not be permitted.

E. Place riprap fragments by hand where necessary to prevent damage to permanent works. Smaller fragments shall not be a substitute for larger ones, and flat slabs shall be laid on edge.

3.4 GROUTING

A. Where indicated on drawings, use concrete to grout completed and accepted riprap construction.

B. Consolidate concrete to fill voids and float finish around exposed riprap surface fragments.

C. Apply curing compound per Section 03300.

END OF SECTION

**SECTION 02240
DEWATERING**

PART 1 - GENERAL

1.1 SUMMARY

A. Section includes the following:

1. Dewatering covers the requirements for placement, operation, and removal of a dewatering or temporary flow passage system to control water during construction.

PART 2 - PRODUCTS

Not Used.

PART 3 - EXECUTION

3.1 DEWATERING

A. Provide an adequate system to lower and control groundwater in order to permit excavation, construction of structures, and placement of fill materials under dry conditions. Install sufficient dewatering equipment to pre-drain water-bearing strata above and below bottom of structure foundations, drains, sewers, and other excavations. The excavations shall be kept dry until exterior walls have been completed and until the structures have been backfilled. Drainage ditches shall not be placed within the area to be occupied by any structure except where permitted by ENGINEER. When such ditches are placed beneath the structures, they shall be backfilled with Class C concrete.

B. Reduce hydrostatic head in water-bearing strata below structure foundations, drains, sewers, and other excavations to extent that water level and piezometric water levels in construction areas are below prevailing excavation surface.

C. Prior to excavation below groundwater level, place system into operation to lower water levels as required and then operate it continuously 24 hours a day, 7 days a week until drains, sewers, and structures have been constructed, including placement of fill materials, and until dewatering is no longer required.

D. Dispose of water removed from excavations in a manner to avoid endangering public health, property, and portions of Work under construction or completed. Dispose of water in a manner to avoid inconvenience to others engaged in work about Site. Provide sumps, sedimentation tanks, and other flow control devices as required by governing authorities. Effluent water from dewatering methods shall be sediment free or be discharged through an ENGINEER-approved sediment entrapment basin.

E. Provide standby equipment on Site, installed and available for immediate operation if required to maintain dewatering on a continuous basis in event any part of system becomes inadequate or fails.

If dewatering requirements are not satisfied due to inadequacy or failure of dewatering system, perform work as may be required to restore damaged structures and foundation soils at no additional expense.

E. Provide a temporary flow passage system as necessary to control water during construction. The temporary flow passage system shall be revised or realigned as required by construction staging. The contractor shall be responsible for any maintenance or required repairs to the flow passage system.

END OF SECTION