



COLLIN COUNTY

Office of the Purchasing Agent
2300 Bloomdale Road
Suite 3160
McKinney, Texas 75071
www.collincountytx.gov

COLLIN COUNTY, TEXAS

ADDENDUM No. One (1)

IFB No. 2019-109

INVITATION FOR BID

FOR

CONSTRUCTION, ROAD: OUTER LOOP ACCESS ROAD, DALLAS PARKWAY TO EAST OF SH 289

DATE: May 31, 2019

NOTICE TO ALL PROSPECTIVE BIDDERS:

PLEASE MAKE THE FOLLOWING CHANGES TO THE INVITATION FOR BID:

DELETE: 002113 Instructions to Bidders Section 1.55 (F). “UMBRELLA” LIABILITY INSURANCE CONTRACTOR shall obtain, pay for and maintain umbrella liability insurance during the contract term, insuring CONTRACTOR for an amount of not less than \$55,000,000 per occurrence combined limit for bodily injury and property damage that follows from and applies in excess of the primary liability coverages required hereinabove. The policy shall provide “drop down” coverage where underlying primary insurance coverage limits are insufficient or exhausted. OWNER shall be named as an additional insured.

REPLACE WITH: 002113 Instructions to Bidders SECTION 1.55 (F) “UMBRELLA” LIABILITY INSURANCE CONTRACTOR shall obtain, pay for and maintain umbrella liability insurance during the contract term, insuring CONTRACTOR for an amount of not less than **\$5,000,000** per occurrence combined limit for bodily injury and property damage that follows from and applies in excess of the primary liability coverages required hereinabove. The policy shall provide “drop down” coverage where underlying primary insurance coverage limits are insufficient or exhausted. OWNER shall be named as an additional insured.

ADD DOCUMENT: CCOL Pre-Bid Attendance

ADD DOCUMENT: CCOL_BIDTABS.xlsx

ADD DOCUMENT: Question and Answers Addendum 1

DELETE DOCUMENT: EQ01 Estimate & Quantities
REPLACE WITH: EQ01 Estimate & Quantities (Addendum 1)

DELETE DOCUMENT: EQ02 Estimate & Quantities
REPLACE WITH: EQ02 Estimate & Quantities (Addendum 1)

DELETE DOCUMENT: 0021 Summary Sheets Roadway
REPLACE WITH: 0021 Summary Sheets Roadway (Addendum 1)

DELETE DOCUMENT: Page 003-004 001113 Advertisement for Bid
REPLACE WITH: Page 003-004 001113 Advertisement for Bid (Addendum 1)

DELETE DOCUMENT: Page 031-038 004100 Bid Form
REPLACE WITH: Page 031-038 004100 Bid Form (Addendum 1)

DELETE DOCUMENT: Page 039-054 004100 Bid Form_CCOL_CEST_BID_TAB
REPLACE WITH: Page 039-054 004100 Bid Form_CCOL_CEST_BID_TAB (Addendum 1)

DELETE DOCUMENT: Page 175-176 B01 Governing Spec List
REPLACE WITH: Page 175-176 B01 Governing Spec List (Addendum 1)

DELETE DOCUMENT: Page 227-228 B03_ssCC502
REPLACE WITH: Page 227-228 B03_ssCC502 (Addendum 1)

DELETE DOCUMENT: Page 239-240 B04 CCOL General Notes
REPALCE WITH: Page 239-240 B04 CCOL General Notes (Addendum 1)

ADD ATTRIBUTE: Addendum No. 1

ADD RESPONSE ATTACHMENT: Audited Financial Statements

ALL OTHER TERMS AND CONDITIONS OF THE BID AND SPECIFICATIONS REMAIN THE SAME.

SINCERELY,
MICHALYN RAINS, CPPO, CPPB
PURCHASING AGENT

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MANDATORY PRE-BID MEETING SIGN-IN

| | | | |
|---------------------|---|----------------------|-------------------------|
| Project: | IFB 2019-109, Construction, Road: Outer Loop Access Road from Dallas Pkwy to East of SH289 | Meeting Date: | May 22, 2019 |
| Facilitator: | Matt Dobecka, CPPO, CPPB, CPCP Collin County Purchasing | Place/Room: | Commissioners Courtroom |

| Name | Company | Phone | E-Mail |
|--------------------|--|--------------|-----------------------------------|
| Aaron Barry | MSSEI | 214 387 3900 | engineering@mariosinacola.com |
| Curt Castenson | Western Municipal Construction | 979-820-1245 | ccastenson@wmc-i.com |
| TYLER TERRELL | RAGLE INC. | 817-285-6060 | txestimating@ragleinc.com |
| Josandres Bautista | Ragle Inc. | 817-285-6060 | txestimating@ragleinc.com |
| Swanya Prakash | RPMX | 682-553-3821 | stiragati@rpmconstruction.com |
| BRYAN DANIELSON | JRB ENGINEERING DMISE QC TESTING | 214-952-3635 | bdanielson@jrbengineering.com |
| BRIAN LEE | ED BELL CONSTRUCTION | 281-232-2355 | ESTIMATING@EDBELLCONSTRUCTION.COM |
| JEFF DURHAM | COLLIN CO | 972-548-3723 | jdurham@collincountytx.gov |
| Dan LAND | ALLIANCE GROUP. GROUP | 469-258-9897 | dland@aggroup.com |
| Kevin Bernard | North Texas Natural ^{seal} material | 469-215-8208 | Kevin@NTNsmilk.com |
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MANDATORY PRE-BID MEETING SIGN-IN

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|---------------------|---|----------------------|-------------------------|
| Project: | IFB 2019-109, Construction, Road: Outer Loop Access Road from Dallas Pkwy to East of SH289 | Meeting Date: | May 22, 2019 |
| Facilitator: | Matt Dobecka, CPPO, CPPB, CPCP Collin County Purchasing | Place/Room: | Commissioners Courtroom |

| Name | Company | Phone | E-Mail |
|----------------|----------------|--------------|-------------------------------|
| Jesus Gonzalez | Jacobs | 469-941-8890 | jesus.gonzalez10@jacobs.com |
| Carlos Negrón | Jacobs | 214-920-8355 | carlos.negron@jacobs.com |
| ALBERT DURANT | TEXAS STERLING | 882-292-9149 | ALBERT.DURANT@STRLLCO.COM |
| Ronnie Steed | Zachry Const. | 469-785-0273 | Ronnie.Steed@ZachryCorp.com |
| MATT MILLER | ZACHRY | 972-400-4309 | MATTHEW.MILLER@ZACHRYCORP.COM |
| Dustin Hammons | Zachry | 903.238.4885 | hammons@zachrycorp.com |
| Kenny Gardner | Collin County | 4124 | |
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Question 1.

Bid Items 79 and 80 appear to be duplicates. Item 80 has no quantity. Please clarify.

Response:

Duplicate will be crossed out from bid tab, Pg 45 of bid book, in Addendum 1. (See Attached Sheet)

Question 2.

Note 1 on Table 1 indicates that the volume of select backfill in the MSE reinforced zone is included in the Type B Embankment item. This is problematic as they are not the same type of material, and including it requires the contractor to "average" some expensive material in with the "standard embankment" material. Please consider adding an Embankment TY C3 for measurement and payment of this material.

Response:

Per the TxDOT Specifications and TxDOT Standard RW (EM), the volume of embankment material used in the MSE reinforced zone is paid for as Item 132 Embankment even though the material itself is an Item 423 Type AS or DS.

Question 3.

Do we have the option of liming to meet PI for the C1 Embankment material, or must it make the PI spec in int's native condition?

Response:

Existing soils consist of high levels of sulfates, liming of existing material is not allowed.

Question 4.

Where is the retaining wall safety maintenance rail paid for? Please reference plan sheet 171.

Response:

Paid for as item CC543 1001 Cable Barrier System, Pg 54 of bid book and Pg 29 in plans.

Question 5.

Sheet 229 states that Type C2 backfill is Type AS or BS wall backfill. It also states the PI range on this material is 8 min - 25 max. Type AS or BS backfill do not typically have a PI range of 8-25.

Response:

The Contractor shall provide material that meet the project specifications. If the Contractor is unable to meet the Specifications, the Contractor can submit alternative material for review and approval.

Question 6.

Sheet 99-100: The removals identified on the plans as "OBLITERATE ROADWAY" appear to actually be removal of concrete paving 1072+48-1089+18 and asphalt removal from 1091+49-1094+78.

Response:

In areas where existing pavement is at the same location as proposed pavement removal of material is paid under Items 104 6021 Removing Conc (PAV) and Item 105 6107/6021 Removing Stab Base and Asph Pav. In areas where pavement is being removed and not being replaced removal will be paid for with ITEM 106 6002.

Question 7.

For Item 432 6001 RIPRAP (Conc) (4 in) shown on Summary Sheet 4 of 12, is this supposed to be 41 CY or 41 SY? Please confirm.

Response:

Updated quantity to 5 CY on pg 21 and 449 CY on pg EQ1 in plans and 449 CY in bid book, in Addendum 1. (See Attached Sheets)

Question 8.

Include a bid schedule item for the flagging at 100 days at \$1600 per day

Response:

Added Special Specification Item CC502 Railroad Flagging, pg 228 of bid book. Edit Item 502, of pg 240 of bid book, by removing "Railroad Flagging is required for all work near the railroad. All railroad flagging is subsidiary to this item" Added Item CC502 to Estimate & Quantity sheet, pg EQ2 of plan set. Added Item CC502 in bid tabs pg 54 of bid book. Added item CC502 to Special Specifications list on pg 175 of bid book. Included in Addendum 1. (See Attached Sheets)

Question 9.

Can you please clarify if the inlets are to be Cast-In-Place or Pre-Cast?

Response:

TxDOT standards are for pre-cast inlets.

Question 10.

Will crushed concrete be a viable substitute for flex base?

Response:

Existing soils consist of high levels of sulfates, crushed concrete will not be suitable for flex base.

Question 11.

Who will pay for the railroad inspection cost?

Response:

Pg 306 of the bid book, states Collin County will be billed for the railroad inspection.

Question 12.

Can the bid day be pushed back one week to avoid conflict with TxDOT letting date?

Response:

Dates updated in pgs 3,31 and 32 of bid book. Submit No Later Than: June 13, 2019, Question Deadline: 6/6/2019, Responses Deadline: 6/13/2019. (See Attached Sheets)

Question 13.

Who will perform material testing?

Response:

Collin County has hired Alliance Geotechnical Group to perform material testing.

Question 14.

Clarify work day vs calendar day, for the 632 calendar days on pg 107 of bid book.

Response:



Refer to pg 68 of bid book for definition.

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| NO. | REV. | BID ITEM | DESC | S. P. CODE | ITEM DESCRIPTION | UNIT | ESTIMATED QUANTITY | FINAL QUANTITY |
|-----|------|----------|------|------------|---|------|--------------------|----------------|
| 1 | | 100 | 6002 | | PREPARING ROW | STA | 97.56 | |
| 2 | | 104 | 6001 | | REMOVING CONC (PAV) | SY | 2,660 | |
| 3 | | 104 | 6021 | | REMOVING CONC (CURB) | LF | 1,929 | |
| 4 | | 105 | 6021 | | REMOVING STAB BASE AND ASPH PAV (0-4") | SY | 904 | |
| 5 | | 105 | 6107 | | REMOVING STAB BASE & ASPH PAV (15"-16") | SY | 1,402 | |
| 6 | | 106 | 6002 | | OBLITERATING ABANDONED ROAD | SY | 8,145 | |
| 7 | | 110 | 6001 | | EXCAVATION (ROADWAY) | CY | 58,572 | |
| 8 | | 110 | 6002 | | EXCAVATION (CHANNEL) | CY | 5,300 | |
| 9 | | 132 | 6004 | 002 | EMBANKMENT (FINAL) (DENS CONT) (TY B) | CY | 289,748 | |
| 10 | | 132 | 6025 | 002 | EMBANKMENT (FINAL) (DENS CONT) (TY C1) | CY | 92,237 | |
| 11 | | 132 | 6026 | 002 | EMBANKMENT (FINAL) (DENS CONT) (TY C2) | CY | 3,502 | |
| 12 | | 164 | 6041 | | DRILL SEEDING (TEMP) (WARM) | SY | 248,440 | |
| 13 | | 164 | 6043 | | DRILL SEEDING (TEMP) (COOL) | SY | 248,440 | |
| 14 | | 164 | 6066 | | DRILL SEEDING (PERM) (WARM OR COOL) | SY | 496,880 | |
| 15 | | 168 | 6001 | | VEGETATIVE WATERING | MG | 117,040 | |
| 16 | | 247 | 6230 | 003 | FL BS (CMP IN PLACE) (TY A GR 1-2) (8") | SY | 53,968 | |
| 17 | | 260 | 6002 | | LIME (HYDRATED LIME (SLURRY)) | TON | 26 | |
| 18 | | 260 | 6027 | | LIME TRT (EXST MATL) (8") | SY | 1,463 | |
| 19 | | 310 | 6027 | | PRIME COAT (MC-30 OR AE-P) | GAL | 10,792 | |
| 20 | | 340 | 6122 | | D-GR HMA (SQ) TY-D PG70-22 | TON | 195 | |
| 21 | | 341 | 6008 | 001 | D-GR HMA TY-B PG64-22 | TON | 10,569 | |
| 22 | | 360 | 6002 | | CONC PVMT (CONT REINF - CRCP) (8") | SY | 1,081 | |
| 23 | | 360 | 6003 | | CONC PVMT (CONT REINF - CRCP) (9") | SY | 39,147 | |
| 24 | | 360 | 6007 | | CONC PVMT (CONT REINF - CRCP) (13") | SY | 6,480 | |
| 25 | | 360 | 6019 | | CONC PVMT (JOINTED - CPCD) (9") | SY | 398 | |
| 26 | | 400 | 6001 | | STRUCT EXCAV | CY | 2,564 | |
| 27 | | 400 | 6005 | | CEM STABIL BKFL | CY | 541 | |
| 28 | | 402 | 6001 | | TRENCH EXCAVATION PROTECTION | LF | 374 | |
| 29 | | 416 | 6001 | | DRILL SHAFT (18 IN) | LF | 454 | |
| 30 | | 416 | 6004 | | DRILL SHAFT (36 IN) | LF | 3,000 | |
| 31 | | 416 | 6005 | | DRILL SHAFT (42 IN) | LF | 448 | |
| 32 | | 416 | 6032 | | DRILL SHAFT (TRF SIG POLE) (36 IN) | LF | 39 | |
| 33 | | 420 | 6014 | | CL C CONC (ABUT) (HPC) | CY | 154 | |
| 34 | | 420 | 6030 | | CL C CONC (CAP) (HPC) | CY | 243.1 | |
| 35 | | 420 | 6038 | | CL C CONC (COLUMN) (HPC) | CY | 195.6 | |
| 36 | | 422 | 6002 | | REINF CONC SLAB (HPC) | SF | 63,225.7 | |
| 37 | | 422 | 6016 | | APPROACH SLAB (HPC) | CY | 207.9 | |
| 38 | | 423 | 6001 | | RETAINING WALL (MSE) | SF | 9,901 | |
| 39 | | 425 | 6039 | | PRESTR CONC GIRDER (TX54) | LF | 6,894.7 | |
| 40 | | 425 | 6040 | | PRESTR CONC GIRDER (TX62) | LF | 1,011.43 | |
| 41 | | 432 | 6001 | | RIPRAP (CONC) (4 IN) | CY | 449 | |
| 42 | | 432 | 6002 | | RIPRAP (CONC) (5 IN) | CY | 60 | |
| 43 | | 432 | 6031 | | RIPRAP (STONE PROTECTION) (12 IN) | CY | 770 | |
| 44 | | 432 | 6033 | | RIPRAP (STONE PROTECTION) (18 IN) | CY | 124 | |
| 45 | | 432 | 6044 | | RIPRAP (CONC) (FLUME) | CY | 71 | |
| 46 | | 432 | 6045 | | RIPRAP (MOW STRIP) (4 IN) | CY | 224 | |

| NO. | REV. | BID ITEM | DESC | S. P. CODE | ITEM DESCRIPTION | UNIT | ESTIMATED QUANTITY | FINAL QUANTITY |
|-----|------|----------|------|------------|---|------|--------------------|----------------|
| 47 | | 450 | 6023 | | RAIL (TY SSTR) | LF | 1,086 | |
| 48 | | 450 | 6024 | | RAIL (TY SSTR) (HPC) | LF | 2,963.3 | |
| 49 | | 454 | 6001 | | SEALED EXPANSION JOINT (4 IN) (SEJ - A) | LF | 343.8 | |
| 50 | | 462 | 6014 | | CONC BOX CULV (7 FT X 3 FT) | LF | 159 | |
| 51 | | 462 | 6109 | | CONC BOX CULV (8 FT X 3 FT) (EXTEND) | LF | 48 | |
| 52 | | 464 | 6003 | | RC PIPE (CL III) (18 IN) | LF | 6,342 | |
| 53 | | 464 | 6005 | | RC PIPE (CL III) (24 IN) | LF | 1,313 | |
| 54 | | 465 | 6002 | 001 | MANH (COMPL) (PRM) (48IN) | EA | 6 | |
| 55 | | 465 | 6013 | 001 | INLET (COMPL) (PCO) (3FT) (NONE) | EA | 32 | |
| 56 | | 465 | 6014 | 001 | INLET (COMPL) (PCO) (3FT) (LEFT) | EA | 12 | |
| 57 | | 465 | 6015 | 001 | INLET (COMPL) (PCO) (3FT) (RIGHT) | EA | 14 | |
| 58 | | 465 | 6016 | 001 | INLET (COMPL) (PCO) (3FT) (BOTH) | EA | 4 | |
| 59 | | 465 | 6133 | 001 | INLET (COMPL) (PSL) (FG) (4FTX5FT-3FTX5FT) | EA | 5 | |
| 60 | | 465 | 6158 | 001 | INLET (COMPL) (PAZD) (FG) (3FTX3FT-3FTX3FT) | EA | 3 | |
| 61 | | 466 | 6152 | | WINGWALL (FW - 0) (HW=5 FT) | EA | 1 | |
| 62 | | 466 | 6153 | | WINGWALL (FW - 0) (HW=6 FT) | EA | 1 | |
| 63 | | 466 | 6180 | | WINGWALL (PW - 1) (HW=5 FT) | EA | 1 | |
| 64 | | 467 | 6356 | | SET (TY II) (18 IN) (RCP) (3: 1) (C) | EA | 1 | |
| 65 | | 467 | 6358 | | SET (TY II) (18 IN) (RCP) (4: 1) (C) | EA | 5 | |
| 66 | | 467 | 6362 | | SET (TY II) (18 IN) (RCP) (6: 1) (C) | EA | 2 | |
| 67 | | 467 | 6390 | | SET (TY II) (24 IN) (RCP) (4: 1) (C) | EA | 5 | |
| 68 | | 467 | 6391 | | SET (TY II) (24 IN) (RCP) (4: 1) (P) | EA | 1 | |
| 69 | | 467 | 6394 | | SET (TY II) (24 IN) (RCP) (6: 1) (C) | EA | 1 | |
| 70 | | 479 | 6006 | | ADJUSTING INLET (CAP) | EA | 3 | |
| 71 | | 480 | 6001 | | CLEAN EXIST CULVERTS | EA | 3 | |
| 72 | | 481 | 6013 | | PIPE (PVC) (SCH 40) (6 IN) | LF | 340 | |
| 73 | | 496 | 6002 | | REMOV STR (INLET) | EA | 4 | |
| 74 | | 496 | 6005 | | REMOV STR (WINGWALL) | EA | 1 | |
| 75 | | 496 | 6007 | | REMOV STR (PIPE) | LF | 416 | |
| 76 | | 496 | 6008 | | REMOV STR (BOX CULVERT) | LF | 18 | |
| 77 | | 496 | 6050 | | REMOV STR (DRIVEWAY CULVERT) | EA | 4 | |
| 78 | | 500 | 6001 | | MOBILIZATION | LS | 1 | |
| 79 | | 502 | 6001 | | BARRICADES, SIGNS AND TRAFFIC HANDLING | MO | 21 | |
| 80 | | 502 | 6001 | | BARRICADES, SIGNS AND TRAFFIC HANDLING | MO | | |
| 81 | | 506 | 6002 | 001 | ROCK FILTER DAMS (INSTALL) (TY 2) | LF | 945 | |
| 82 | | 506 | 6003 | 001 | ROCK FILTER DAMS (INSTALL) (TY 3) | LF | 30 | |
| 83 | | 506 | 6011 | 001 | ROCK FILTER DAMS (REMOVE) | LF | 975 | |
| 84 | | 506 | 6020 | 001 | CONSTRUCTION EXITS (INSTALL) (TY 1) | SY | 234 | |
| 85 | | 506 | 6024 | 001 | CONSTRUCTION EXITS (REMOVE) | SY | 234 | |
| 86 | | 506 | 6038 | 001 | TEMP SEDMT CONT FENCE (INSTALL) | LF | 11,851 | |
| 87 | | 506 | 6039 | 001 | TEMP SEDMT CONT FENCE (REMOVE) | LF | 11,851 | |
| 88 | | 506 | 6041 | 001 | BIODEG EROSN CONT LOGS (INSTL) (12") | LF | 3,100 | |
| 89 | | 506 | 6043 | 001 | BIODEG EROSN CONT LOGS (REMOVE) | LF | 3,100 | |
| 90 | | 508 | 6001 | | CONSTRUCTING DETOURS | SY | 6,803 | |
| 91 | | 512 | 6009 | | PORT CTB (FUR & INST) (LOW PROF) (TY 1) | LF | 640 | |
| 92 | | 512 | 6010 | | PORT CTB (FUR & INST) (LOW PROF) (TY 2) | LF | 60 | |

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| 1 | 05/30/19 | REVISED ITEM 432 | JG |
| NO. | DATE | REVISION | APPROV. |
| COLLIN COUNTY OUTER LOOP | | | |
|  | | | |
| ESTIMATE & QUANTITIES | | | |
| SHEET 1 OF 2 | | | |
|  | | | |
| FIRM REGISTRATION: F-2966 | | | |
| BOND PROJECT NO. 07-094 | | | |
| SHEET EQ1 | | | |



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| NO. | REV. | BID ITEM | DESC | S.P. CODE | ITEM DESCRIPTION | UNIT | ESTIMATED QUANTITY | FINAL QUANTITY |
|-----|------|-------------|------|--------------|---|------|-----------------------|-------------------|
| 93 | | 512 | 6033 | | PORT CTB (MOVE) (LOW PROF) (TY 1) | LF | 330 | |
| 94 | | 512 | 6034 | | PORT CTB (MOVE) (LOW PROF) (TY 2) | LF | 40 | |
| 95 | | 512 | 6057 | | PORT CTB (REMOVE) (LOW PROF) (TY 1) | LF | 640 | |
| 96 | | 512 | 6058 | | PORT CTB (REMOVE) (LOW PROF) (TY 2) | LF | 60 | |
| 97 | | 514 | 6001 | | PERM CTB (SGL SLOPE) (TY 1) (42) | LF | 540 | |
| 98 | | 529 | 6005 | | CONC CURB (MONO) (TY II) | LF | 19,691 | |
| 99 | | 530 | 6001 | | INTERSECTIONS (CONC) | SY | 244 | |
| 100 | | 530 | 6004 | | DRIVEWAYS (CONC) | SY | 232 | |
| 101 | | 530 | 6006 | | DRIVEWAYS (SURF TREAT) | SY | 729 | |
| 102 | | 531 | 6004 | | CURB RAMPS (TY 1) | EA | 4 | |
| 103 | | 531 | 6017 | | CURB RAMPS (TY 22) | EA | 2 | |
| 104 | | 536 | 6004 | | CONC DIRECTIONAL ISLAND | SY | 79 | |
| 105 | | 540 | 6002 | | MTL W-BEAM GD FEN (STEEL POST) | LF | 1,150 | |
| 106 | | 540 | 6006 | | MTL BEAM GD FEN TRANS (THRIE-BEAM) | EA | 6 | |
| 107 | | 540 | 6020 | | MTL W - BEAM GD FEN (LOW FILL CULVERT) | LF | 50 | |
| 108 | | 544 | 6001 | | GUARDRAIL END TREATMENT (INSTALL) | EA | 10 | |
| 109 | | 545 | 6001 | | CRASH CUSH ATTEN (INSTL) | EA | 2 | |
| 110 | | 556 | 6006 | | PIPE UNDERDRAINS (TY 6) (6") | LF | 1,065 | |
| 111 | | 618 | 6023 | | CONDT (PVC) (SCH 40) (2") | LF | 140 | |
| 112 | | 618 | 6029 | | CONDT (PVC) (SCH 40) (3") | LF | 130 | |
| 113 | | 618 | 6030 | | CONDT (PVC) (SCH 40) (3") (BORE) | LF | 260 | |
| 114 | | 618 | 6046 | | CONDT (PVC) (SCH 80) (2") | LF | 100 | |
| 115 | | 620 | 6007 | | ELEC CONDR (NO.8) BARE | LF | 505 | |
| 116 | | 620 | 6008 | | ELEC CONDR (NO.8) INSULATED | LF | 840 | |
| 117 | | 621 | 6002 | | TRAY CABLE (3 CONDR) (12 AWG) | LF | 920 | |
| 118 | | 624 | 6008 | | GROUND BOX TY C (162911)W/APRON | EA | 9 | |
| 119 | | 628 | 6187 | | ELC SRV TY D 120/240 070(NS)SS(E)PS(U) | EA | 1 | |
| 120 | | 644 | 6001 | | IN SM RD SN SUP&AM TY10BWG(1)SA(P) | EA | 84 | |
| 121 | | 644 | 6004 | | IN SM RD SN SUP&AM TY10BWG(1)SA(T) | EA | 4 | |
| 122 | | 644 | 6007 | | IN SM RD SN SUP&AM TY10BWG(1)SA(U) | EA | 2 | |
| 123 | | 644 | 6017 | | IN SM RD SN SUP&AM TY10BWG(2)SA(P) | EA | 2 | |
| 124 | | 644 | 6064 | | IN BRIDGE MNT CLEARANCE SGN ASSM(TY N) | EA | 2 | |
| 125 | | 644 | 6076 | | REMOVE SM RD SN SUP&AM | EA | 5 | |
| 126 | | 658 | 6014 | | INSTL DEL ASSM (D-SW)SZ (BRF)CTB (BI) | EA | 77 | |
| 127 | | 658 | 6015 | | INSTL DEL ASSM (D-SW)SZ (BRF)GF1 | EA | 46 | |
| 128 | | 658 | 6048 | | INSTL OM ASSM (OM-2Z) (FLX)GND | EA | 12 | |
| 129 | | 662 | 6063 | | WK ZN PAV MRK REMOV (W)4" (SLD) | LF | 14,675 | |
| 130 | | 662 | 6095 | | WK ZN PAV MRK REMOV (Y)4" (SLD) | LF | 8,668 | |
| 131 | | 666 | 6030 | 007 | REFL PAV MRK TY I (W)8" (DOT) (100MIL) | LF | 1,565 | |
| 132 | | 666 | 6036 | 007 | REFL PAV MRK TY I (W)8" (SLD) (100MIL) | LF | 4,323 | |
| 133 | | 666 | 6042 | 007 | REFL PAV MRK TY I (W)12" (SLD) (100MIL) | LF | 809 | |
| 134 | | 666 | 6048 | 007 | REFL PAV MRK TY I (W)24" (SLD) (100MIL) | LF | 515 | |
| 135 | | 666 | 6054 | 007 | REFL PAV MRK TY I (W) (ARROW) (100MIL) | EA | 28 | |
| 136 | | 666 | 6078 | 007 | REFL PAV MRK TY I (W) (WORD) (100MIL) | EA | 27 | |
| 137 | | 666 | 6102 | 007 | REF PAV MRK TY I(W)36" (YLD TRI) (100MIL) | EA | 18 | |
| 138 | | 666 | 6141 | 007 | REFL PAV MRK TY I (Y)12" (SLD) (100MIL) | LF | 1,327 | |

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| NO. | REV. | BID ITEM | DESC | S.P. CODE | ITEM DESCRIPTION | UNIT | ESTIMATED QUANTITY | FINAL QUANTITY |
|-----|------|-------------|------|--------------|---|------|-----------------------|-------------------|
| 139 | | 666 | 6224 | 007 | PAVEMENT SEALER 4" | LF | 56,428 | |
| 140 | | 666 | 6226 | 007 | PAVEMENT SEALER 8" | LF | 5,888 | |
| 141 | | 666 | 6228 | 007 | PAVEMENT SEALER 12" | LF | 2,136 | |
| 142 | | 666 | 6230 | 007 | PAVEMENT SEALER 24" | LF | 515 | |
| 143 | | 666 | 6231 | 007 | PAVEMENT SEALER (ARROW) | EA | 28 | |
| 144 | | 666 | 6232 | 007 | PAVEMENT SEALER (WORD) | EA | 27 | |
| 145 | | 666 | 6243 | 007 | PAVEMENT SEALER (YLD TRI) | EA | 18 | |
| 146 | | 666 | 6303 | 007 | RE PM W/RET REQ TY I (W)4" (SLD) (100MIL) | LF | 26,020 | |
| 147 | | 666 | 6315 | 007 | RE PM W/RET REQ TY I (Y)4" (SLD) (100MIL) | LF | 30,408 | |
| 148 | | 672 | 6007 | | REFL PAV MRKR TY I-C | EA | 176 | |
| 149 | | 672 | 6009 | | REFL PAV MRKR TY II-A-A | EA | 474 | |
| 150 | | 672 | 6010 | | REFL PAV MRKR TY II-C-R | EA | 51 | |
| 151 | | 677 | 6001 | | ELIM EXT PAV MRK & MRKS (4") | LF | 1,004 | |
| 152 | | 677 | 6003 | | ELIM EXT PAV MRK & MRKS (8") | LF | 506 | |
| 153 | | 677 | 6005 | | ELIM EXT PAV MRK & MRKS (12") | LF | 1,528 | |
| 154 | | 677 | 6007 | | ELIM EXT PAV MRK & MRKS (24") | LF | 54 | |
| 155 | | 677 | 6008 | | ELIM EXT PAV MRK & MRKS (ARROW) | EA | 4 | |
| 156 | | 677 | 6012 | | ELIM EXT PAV MRK & MRKS (WORD) | EA | 4 | |
| 157 | | 680 | 6002 | 006 | INSTALL HWY TRF SIG (ISOLATED) | EA | 1 | |
| 158 | | 681 | 6001 | | TEMP TRAF SIGNALS | EA | 1 | |
| 159 | | 682 | 6001 | | VEH SIG SEC (12")LED(GRN) | EA | 4 | |
| 160 | | 682 | 6002 | | VEH SIG SEC (12")LED(GRN ARW) | EA | 2 | |
| 161 | | 682 | 6003 | | VEH SIG SEC (12")LED(YEL) | EA | 4 | |
| 162 | | 682 | 6004 | | VEH SIG SEC (12")LED(YEL ARW) | EA | 4 | |
| 163 | | 682 | 6005 | | VEH SIG SEC (12")LED(RED) | EA | 4 | |
| 164 | | 682 | 6006 | | VEH SIG SEC (12")LED(RED ARW) | EA | 4 | |
| 165 | | 682 | 6018 | | PED SIG SEC (LED) (COUNTDOWN) | EA | 6 | |
| 166 | | 682 | 6023 | | BACK PLATE (12") (3 SEC) | EA | 4 | |
| 167 | | 682 | 6025 | | BACK PLATE (12") (5 SEC) | EA | 2 | |
| 168 | | 684 | 6031 | | TRF SIG CBL (TY A) (14 AWG) (5 CONDR) | LF | 234 | |
| 169 | | 684 | 6033 | | TRF SIG CBL (TY A) (14 AWG) (7 CONDR) | LF | 123 | |
| 170 | | 684 | 6036 | | TRF SIG CBL (TY A) (14 AWG) (10 CONDR) | LF | 1,010 | |
| 171 | | 684 | 6042 | | TRF SIG CBL (TY A) (14 AWG) (16 CONDR) | LF | 750 | |
| 172 | | 684 | 6079 | | TRF SIG CBL (TY C) (12 AWG) (2 CONDR) | LF | 1,365 | |
| 173 | | 686 | 6282 | | RELOC TRF SG PL AM(S) SNGL MST ARM POLE | EA | 4 | |
| 174 | | 687 | 6001 | | PED POLE ASSEMBLY | EA | 3 | |
| 175 | | 688 | 6001 | | PED DETECT PUSH BUTTON (APS) | EA | 6 | |
| 176 | | 690 | 6057 | | REMOVAL OF PEDESTRIAN RAMPS | EA | 10 | |
| 177 | | 856 | 1001 | | MOISTURE TREATED SUBGRADE | CY | 8,141 | |
| 178 | | 6027 | 6003 | | CONDUIT (PREPARE) | LF | 175 | |
| 179 | | 6027 | 6008 | | GROUND BOX (PREPARE) | EA | 2 | |
| 180 | | 6090 | 6002 | | ILSN (LED) (8 D) | EA | 4 | |
| 181 | | 6292 | 6001 | | RVDS(PRESENCE DETECTION ONLY) | EA | 2 | |
| 182 | | 6292 | 6003 | | RVDS(PRESENCE AND ADVANCE DET) | EA | 4 | |
| 183 | | CC543 | 1001 | | CABLE BARRIER SYSTEM | LF | 765 | |
| 184 | | CC502 | 1001 | | RAILROAD FLAGGING | DAY | 100 | |



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|---|----------|------------------|---------|
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| | | | |
| | | | |
| 1 | 05/30/19 | ADDED ITEM CC502 | JG |
| NO. | DATE | REVISION | APPROV. |
| COLLIN COUNTY OUTER LOOP | | | |
|  | | | |
| ESTIMATE & QUANTITIES | | | |
| SHEET 2 OF 2 | | | |
|  | | | |
| FIRM REGISTRATION: F-2966 | | | |
| BOND PROJECT NO. 07-094 SHEET EQ2 | | | |

\$USER\$

5/30/2019 11:43:31 AM
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| SUMMARY OF ROADWAY ITEMS | | | | | | | | | | | | | | | |
|--------------------------|---|----------------------------------|------------------------------|----------------------------------|-------------------------------|--------------------------|--|--|---|---------------------------------------|------------------------------|-------------------------|----------------|---|-----------------------------|
| LOCATION | 247 6230 | 260 6002 | 260 6027 | 310 6027 | 340 6122 | 341 6008 | 360 6002 | 360 6003 | 360 6007 | 360 6019 | 432 6045 | 432 6001 | 450 6023 | 514 6001 | 529 6005 |
| | FL BS (CMP IN PLACE) (TY A GR 1-2) (8") | LIME (HYDRATED LIME (SLURRY)) | LIME TRT (EXST MATL) (8") | PRIME COAT (MC-30 OR AE-P) | D-GR HMA (SQ) TY-D PG70-22 | D-GR HMA TY-B PG64-22 | CONC PVMT (CONT REINF - CRCP) (8") | CONC PVMT (CONT REINF - CRCP) (9") | CONC PVMT (CONT REINF - CRCP) (13") | CONC PVMT (JOINTED - CPCD) (9") | RIPRAP (MOW STRIP) (4 IN) | RIPRAP (CONC) (4 IN) | RAIL (TY SSTR) | PERM CTB (SGL SLOPE) (TY 1) (42) | CONC CURB (MONO) (TY II) |
| | SY | TON | SY | GAL | TON | TON | SY | SY | SY | SY | CY | CY | LF | LF | LF |
| CCOL | | | | | | | | | | | | | | | |
| SHEET 1 OF 10 | 4,507 | | | 901 | | 991 | | 4,190 | | | | | | | 1,449 |
| SHEET 2 OF 10 | 4,507 | | | 901 | | 992 | | 4,018 | | | 53 | | | | 2,201 |
| SHEET 3 OF 10 | 5,064 | | | 1,013 | | 1,114 | | 4,565 | | | | | | | 2,080 |
| SHEET 4 OF 10 | 4,256 | | | 851 | | 936 | | 3,756 | | | | | | | 2,173 |
| SHEET 5 OF 10 | 1,051 | | | 210 | | 231 | | | 960 | | 31 | | | 300 | 418 |
| SHEET 6 OF 10 | 5,329 | | | 1,066 | | 1,172 | | | 4,738 | | 90 | | 1,086 | | |
| SHEET 7 OF 10 | 2,452 | | | 490 | | 540 | | 1,436 | 782 | | 31 | | | 240 | 1,031 |
| SHEET 8 OF 10 | 5,530 | | | 1,106 | | 1,217 | | 5,049 | | | | | | | 2,157 |
| SHEET 9 OF 10 | 6,944 | | | 1,389 | 121 | 371 | | 5,497 | | | | | | | 1,817 |
| SHEET 10 OF 10 | 671 | | | 134 | 74 | | | | | | | | | | |
| DNT | | | | | | | | | | | | | | | |
| SHEET 1 OF 1 CR 52 | 466 | | | 93 | | 103 | | | | 398 | | | | | 307 |
| SHEET 1 OF 1 CR 51 | 348 | | | 70 | | 76 | | 317 | | | | | | | |
| SHEET 1 OF 1 | 410 | | | 82 | | 90 | | 510 | | | | | | | |
| WB CONNECTOR | | | | | | | | | | | | | | | |
| SHEET 1 OF 3 | 3,271 | | | 654 | | 720 | | 2,997 | | | | | | | 1,518 |
| SHEET 2 OF 3 | 4,563 | | | 913 | | 1,004 | | 4,071 | | | | | | | 2,148 |
| SHEET 3 OF 3 | 3,136 | | | 627 | | 690 | | 2,741 | | | | | | | 1,394 |
| SH 289 (PRESTON) | | | | | | | | | | | | | | | |
| SHEET 1 OF 2 | 842 | 15 | 842 | 168 | | 185 | 551 | | | | | 5 | | | 587 |
| SHEET 2 OF 2 | 621 | 11 | 621 | 124 | | 137 | 530 | | | | | | | | 411 |
| | | | | | | | | | | | | | | | |
| PROJECT TOTALS | 53,968 | 26 | 1,463 | 10,792 | 195 | 10,569 | 1,081 | 39,147 | 6,480 | 398 | 205 | 5 | 1,086 | 540 | 19,691 |

| SUMMARY OF ROADWAY ITEMS | | | | | | | | | | | |
|--------------------------|-------------------------|---------------------|---------------------------|----------------------|-----------------------|-------------------------------|--------------------------------------|--|--|---|-----------------------------|
| LOCATION | 530 6001 | 530 6004 | 530 6006 | 531 6004 | 531 6017 | 536 6004 | 540 6002 | 540 6006 | 540 6020 | 544 6001 | 545 6001 |
| | INTERSECTIONS (CONC) | DRIVEWAYS (CONC) | DRIVEWAYS (SURF TREAT) | CURB RAMPS (TY 1) | CURB RAMPS (TY 22) | CONC DIRECTIONAL ISLAND | MTL W-BEAM GD FEN (STEEL POST) | MTL BEAM GD FEN TRANS (THRIE-BEAM) | MTL W - BEAM GD FEN (LOW FILL CULVERT) | GUARDRAIL END TREATMENT (INSTALL) | CRASH CUSH ATTEN (INSTL) |
| | SY | SY | SY | EA | EA | SY | LF | EA | LF | EA | EA |
| CCOL | | | | | | | | | | | |
| SHEET 1 OF 10 | | | | | | | 75 | | | 1 | |
| SHEET 2 OF 10 | | | | | | | 325 | | 50 | 3 | |
| SHEET 3 OF 10 | | | | | | | | | | | |
| SHEET 4 OF 10 | | 77 | 198 | | | | | | | | |
| SHEET 5 OF 10 | | | | | | | 250 | 2 | | 2 | 1 |
| SHEET 6 OF 10 | | | | | | | 250 | 2 | | 2 | |
| SHEET 7 OF 10 | | | | | | | 250 | 2 | | 2 | 1 |
| SHEET 8 OF 10 | | | | | | | | | | | |
| SHEET 9 OF 10 | | | | | | | | | | | |
| SHEET 10 OF 10 | | | | | | | | | | | |
| DNT | | | | | | | | | | | |
| SHEET 1 OF 1 CR 52 | | | | | | | | | | | |
| SHEET 1 OF 1 CR 51 | | | | | | | | | | | |
| SHEET 1 OF 1 | | | 531 | | | | | | | | |
| WB CONNECTOR | | | | | | | | | | | |
| SHEET 1 OF 3 | | 58 | | | | | | | | | |
| SHEET 2 OF 3 | | 46 | | | | | | | | | |
| SHEET 3 OF 3 | | 51 | | | | | | | | | |
| SH 289 (PRESTON) | | | | | | | | | | | |
| SHEET 1 OF 2 | 244 | | | 4 | 2 | 79 | | | | | |
| SHEET 2 OF 2 | | | | | | | | | | | |
| | | | | | | | | | | | |
| PROJECT TOTALS | 244 | 232 | 729 | 4 | 2 | 79 | 1,150 | 6 | 50 | 10 | 2 |

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|---|----------|------------------|---------|
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| | | | |
| 1 | 05/30/19 | REVISED ITEM 432 | JG |
| NO. | DATE | REVISION | APPROV. |
| COLLIN COUNTY OUTER LOOP | | | |
|  | | | |
| SUMMARY SHEETS ROADWAY | | | |
| SHEET 4 OF 12 | | | |
|  | | | |
| FIRM REGISTRATION: F-2966 | | | |
| BOND PROJECT NO. 07-094 SHEET 21 | | | |

SECTION 001113 - ADVERTISEMENT FOR BIDS

BY ORDER OF the Collin County Commissioners Court, Collin County, Texas, bids will be received electronically through the Collin County eBid web site located at collincountytx.ionwave.net. Bidders are encouraged to submit bids electronically by utilizing the Collin County eBid System. However, you may submit a sealed hard copy paper bid to the Office of the Collin County Purchasing Agent. All bids, both electronic or hard copy paper form must be submitted as stated below:

SUBMIT BIDS HARD COPY PAPER BIDS TO:

**Office of the Purchasing Agent
Collin County Administration Building
2300 Bloomdale Road, Suite 3160
McKinney, Texas 75071**

****NOTE:**

**All Correspondence must include suite
number to assist in proper delivery****

SUBMIT NO LATER THAN:

2:00 P.M., June 13, 2019



MARK ENVELOPE:

**IFB No. 2019-109
Project: Construction, Road:
Outer Loop Access Road,
Dallas Parkway to East of SH 289**

***ALL BIDS MUST BE RECEIVED IN THE OFFICE OF THE PURCHASING AGENT
BEFORE OPENING DATE AND TIME***

SCOPE OF WORK INCLUDES all materials, labor, equipment and services to produce or be incorporated in such construction. Contract will be a general contract for the construction of the Outer Loop Access Road, Dallas Parkway to East of SH 289. The work required will include approximately: 63,226 square feet of Bridge Structure, 63,872 cubic yards of Excavation, 385,487 cubic yards of Embankment, 1,081 square yards of 8" thick Continuously Reinforced Concrete Pavement, 39,147 square yards of 9" thick Continuously Reinforced Concrete Pavement, 6,480 square yards of 13" thick Continuously Reinforced Concrete Pavement, 398 square yards of 9" thick Joint Reinforced Concrete Pavement, 1,463 square yards of 8" thick Lime Stabilized Subgrade, 8,141 cubic yards of Moisture Treated Subgrade, 10,569 tons of HMA (Type B), 207 linear feet of Reinforced Concrete Box Culvert, 7,655 linear feet of Reinforced Concrete Pipe Storm Drains, 76 Drainage Inlet and Junction Box Structures, 3 Reinforced Concrete Headwalls and Wingwalls, 15 Safety End Treatments for box and pipe culverts, 496,880 square yards of Topsoil and Seeding, 121,395 linear feet of Pavement Markings, 1 Highway Traffic Signal (Isolated Intersection), and other miscellaneous improvements.

The contract will also include all necessary demolition and roadway work as needed to complete the project. Payment for the contract work shall be made pursuant to the terms of the Contract Documents.

Collin County uses Collin County eBid for the notification and dissemination of all solicitations for commodities and services. The receipt of solicitations through any other company may result in your receipt of incomplete specifications and/or addendums which could ultimately render your bid non-compliant. Collin County accepts no responsibility for the receipt and/or notification of solicitations through any other company.

COLLIN COUNTY APPRECIATES your time and effort in preparing a bid. Hard copy paper bid must be in a separate sealed envelope, manually signed in ink by a person having the authority to bind the firm in a contract and marked clearly on the outside as outlined above. Please note that all bids must be received at the designated location by the deadline shown. Bids received after deadline shall be considered void and unacceptable. Collin County is not responsible for lateness of mail, carrier, etc. and time/date stamp clock in the Collin County Purchasing Department shall be the official time of receipt. All bid forms provided in this Invitation for Bid must be completed prior to submission. Failure to complete the forms shall render your bid null and void. We would appreciate you indicating on your "NO BID" response any requirements of this bid request which may have influenced your decision to "NO BID".

BIDS WILL BE publicly opened in the Office of the Purchasing Agent, 2300 Bloomdale Rd, Suite 3160, McKinney, TX 75071, at the date and time indicated above.

A **MANDATORY PRE-BID CONFERENCE** will be held by Collin County in the Commissioners' Courtroom located at the Collin County Administration Building, 2300 Bloomdale Road, 4th Floor, McKinney, TX 75071 on Wednesday, May 22, 2019 at 9:00 A.M. in order for bidders to ask questions regarding the proposed work. All bidders desiring to bid the work should have a representative at the pre-bid conference; bidders that do not attend the pre-bid conference shall not be considered in the evaluation for award of a contract per Texas Local Government Code 262.0256. Attendance shall be mandatory at the pre-bid conference.

No oral, telegraphic, telephonic or facsimile bids will be considered. IFB's, RFP's, RFQ's and RFI's may be submitted in electronic format via Collin County eBid at <http://collincountytexas.ionwave.net>.

BID SECURITY: All Bidders must submit, prior to the bid opening time, a Cashier's Check or acceptable Bid Bond payable without recourse to Collin County in the amount of not less than five percent (5%) of the total bid plus alternates as submitted.

1. Bid Bond or Cashier's Check may be mailed or hand delivered to the Office of the Collin County Purchasing Agent, Collin County Administration Building, 2300 Bloomdale Road, Ste 3160, McKinney, TX 75071 and shall be delivered in an envelope, marked plainly on the outside with the Bid Name and Number.
2. Bid Bond may be faxed to the Purchasing Department at 972-548-4694.
3. Bid Bond may be e-mailed to: mdobecka@collincountytexas.gov



Collin County Purchasing

2019-109 Addendum 1

Construction, Road: Collin County Outer Loop Access Road from Dallas Parkway to East of SH 289

Issue Date: 5/8/2019

Questions Deadline: 6/6/2019 05:00 PM (CT)

Response Deadline: 6/13/2019 02:00 PM (CT)

Collin County Purchasing

Contact Information

Contact: Matt Dobecka, CPPO, CPPB, CPCP Functional Analyst

Address: 2300 Bloomdale Rd.

Ste. 3160

Purchasing

Admin. Building

Ste.3160

McKinney, TX 75071

Phone: 1 (972) 548-4103

Fax: 1 (972) 548-4694

Email: mdobecka@co.collin.tx.us

Event Information

Number: 2019-109 Addendum 1
Title: Construction, Road: Collin County Outer Loop Access Road from Dallas Parkway to East of SH 289
Type: Invitation for Bid - Construction
Issue Date: 5/8/2019
Question Deadline: 6/6/2019 05:00 PM (CT)
Response Deadline: 6/13/2019 02:00 PM (CT)

Ship To Information

Address: 4690 Community Ave.
Ste. 200
Engineering
JJAEP
Ste. 200
McKinney, TX 75071

Billing Information

Address: 2300 Bloomdale Rd.
Ste. 3100
Auditor
Admin. Building
Ste. 3100
McKinney, TX 75071

Bid Activities

Mandatory Pre-Bid Meeting

5/22/2019 9:00:00 AM (CT)

A MANDATORY PRE-BID CONFERENCE will be held by Collin County in the Commissioners' Courtroom located at the Collin County Administration Building, 2300 Bloomdale Road, 4th Floor, McKinney, TX 75071 in order for bidders to ask questions regarding the proposed work. All bidders desiring to bid the work should have a representative at the pre-bid conference; bidders that do not attend the pre-bid conference shall not be considered in the evaluation for award of a contract per Texas Local Government Code 262.0256. Attendance shall be mandatory at the pre-bid conference.

Bid Attachments

Addendum 1 .pdf

Addendum No. 1

[View Online](#)

Collin County Outer Loop Access Specs_REV_2019-04-29.pdf

Spec Book

[Download](#)

Collin County Outer Loop Access Road Plans_2019-04-26.pdf

Plans

[Download](#)

Collin County Outer Loop Access Road Cross Sections_2019-04-26.pdf

Cross Sections

[Download](#)

Requested Attachments

Bid Bond

(Attachment required)

If submitting online please upload your bid bond.

Bid Form

(Attachment required)

Bid Schedule

(Attachment required)

Audited Financial Statements**Bid Attributes****1 eBid Notice**

Collin County exclusively uses IonWave Technologies, Inc. (Collin County eBid) for the notification and dissemination of all solicitations. The receipt of solicitations through any other means may result in your receipt of incomplete specifications and/or addendums which could ultimately render your bid/proposal non-compliant. Collin County accepts no responsibility for the receipt and/or notification of solicitations through any other means. Please initial.

(Required: Maximum 1000 characters allowed)

2 Bid Bond Acknowledgement

I understand that accompanying this bid, is a certified check, cashier's check or Bid Bond in the amount of five percent (5%) of the total amount bid. Bidders submitting a bid via Collin County eBid shall upload a Bid Bond at <https://collincountytx.ionwave.net>. Regardless of delivery method, all Bid Bonds shall be received prior to the bid opening time to be considered.

I understand that the original Bid Bond shall be received in the Collin County Purchasing Department no later than close of business on the third working day after the bid opening. **Late receipt of original Bid Bond shall be cause for rejection of bid.** Please initial.

(Required: Maximum 4000 characters allowed)

3 Bonding Requirement Acknowledgement

I understand that the bonding requirements of this solicitation are required and are included in the submitted pricing. A bond certificate (payment, performance, and/or maintenance) as stated in the specification document shall be submitted to the Purchasing department if I am awarded all or a portion of the resulting contract. Please initial.

(Required: Maximum 1000 characters allowed)

4 Contact Information

List the contact name, email address and phone number of the main person(s) Collin County should contact in reference to this solicitation. Contact(s) shall be duly authorized by the company, corporation, firm, partnership or individual to respond to any questions, clarification, and or offers in response to this solicitation.

(Required: Maximum 4000 characters allowed)

5 Exceptions

Do you take exceptions to the specifications. If so, by separate attachment, please state your exceptions.

☐ Yes ☐ No

(Required: Check only one)

6 Insurance Acknowledgement

I understand that the insurance requirements of this solicitation are required and are included in the submitted pricing. A certificate of insurance shall be submitted to the Purchasing department if I am awarded all or a portion of the resulting contract. Please initial.

(Required: Maximum 1000 characters allowed)

7 Preferential Treatment

The County of Collin, as a governmental agency of the State of Texas, may not award a contract to a nonresident bidder unless the nonresident's bid is lower than the lowest bid submitted by a responsible Texas resident bidder by the same amount that a Texas resident bidder would be required to underbid a nonresident bidder to obtain a comparable contract in the state in which the nonresident's principal place of business is located (Government Code, Title 10, V.T.C.A., Chapter 2252, Subchapter A). 1. Is your principal place of business in the State of Texas? 2. If your principal place of business is not in Texas, in which State is your principal place of business? 3. If your principal place of business is not in Texas, does your state favor resident bidders (bidders in your state) by some dollar increment or percentage? 4. If your state favors resident bidders, state by what dollar amount or percentage.

(Required: Maximum 4000 characters allowed)

8 Debarment Certification

I certify that neither my company nor an owner or principal of my company has been debarred, suspended or otherwise made ineligible for participation in Federal Assistance programs under Executive Order 12549, "Debarment and Suspension," as described in the Federal Register and Rules and Regulations. Please initial.

(Required: Maximum 1000 characters allowed)

9 Immigration and Reform Act

I declare and affirm that my company is in compliance with the Immigration and Reform Act of 1986 and all employees are legally eligible to work in the United States of America. I further understand and acknowledge that any non-compliance with the Immigration and Reform Act of 1986 at any time during the term of this contract will render the contract voidable by Collin County. Please initial.

(Required: Maximum 1000 characters allowed)

10 Disclosure of Certain Relationships

Chapter 176 of the Texas Local Government Code requires that any vendor considering doing business with a local government entity disclose the vendor's affiliation or business relationship that might cause a conflict of interest with a local government entity. Subchapter 6 of the code requires a vendor to file a conflict of interest questionnaire (CIQ) if a conflict exists. By law this questionnaire must be filed with the records administrator of Collin County no later than the 7th business day after the date the vendor becomes aware of an event that requires the statement to be filed. A vendor commits an offense if the vendor knowingly violates the code. An offense under this section is a misdemeanor. By submitting a response to this request, the vendor represents that it is in compliance with the requirements of Chapter 176 of the Texas Local Government Code. Please send completed forms to the Collin County County Clerk's Office located at 2300 Bloomdale Rd., Suite 2104, McKinney, TX 75071. Please initial.

(Required: Maximum 1000 characters allowed)

11 Anti-Collusion Statement

Bidder certifies that its Bid/Proposal is made without prior understanding, agreement, or connection with any corporation, firm, or person submitting a Bid/Proposal for the same materials, services, supplies, or equipment and is in all respects fair and without collusion or fraud. No premiums, rebates or gratuities permitted; either with, prior to, or after any delivery of material or provision of services. Any such violation may result in Agreement cancellation, return of materials or discontinuation of services and the possible removal from bidders list. Please initial.

(Required: Maximum 1000 characters allowed)

12 Disclosure of Interested Parties

Section 2252.908 of the Texas Government Code requires a business entity entering into certain contracts with a governmental entity to file with the governmental entity a disclosure of interested parties at the time the business entity submits the signed contract to the governmental entity. Section 2252.908 requires the disclosure form (Form 1295) to be signed by the authorized agent of the contracting business entity, acknowledging that the disclosure is made under oath and under penalty of perjury. Section 2252.908 applies only to a contract that requires an action or vote by the governing body of the governmental entity before the contract may be signed or has a value of at least \$1 million. Section 2252.908 provides definitions of certain terms occurring in the section. Section 2252.908 applies only to a contract entered into on or after January 1, 2016. Please initial.

(Required: Maximum 1000 characters allowed)

3

☐ Plano Star Courier ☐ Plan Room ☐ Collin County eBid Notification ☐ Collin County Website
☐ Other

1

4

1

5

1

(Response required)

Supplier Notes:

36

Item Attributes

1. Bid Grand Total- Written in Words

The contract award will be based on the total bid price.

(Required: Maximum 4000 characters allowed)

2. Total Material Cost Incorporated in Project

\$

(Required: Numbers only)

3. Total Material Cost Incorporated in Project- Written in Words

(Required: Maximum 4000 characters allowed)

4. Total Labor Cost Incorporated in Project

\$

(Required: Numbers only)

5. Total Labor Cost Incorporated in Project- Written in Words

(Required: Maximum 4000 characters allowed)

Supplier Information

Company Name:

Contact Name:

Address:

Phone:

Fax:

Email:

Supplier Notes

The undersigned hereby certifies the foregoing bid submitted by the company listed below hereinafter called "bidder" is the duly authorized agent of said company and the person signing said bid has been duly authorized to execute same. Bidder affirms that they are duly authorized to execute this contract; this company; corporation, firm, partnership or individual has not prepared this bid in collusion with any other bidder or other person or persons engaged in the same line of business; and that the contents of this bid as to prices, terms and conditions of said bid have not been communicated by the undersigned nor by any employee or agent to any other person engaged in this type of business prior to the official opening of this bid.

Print Name

Signature

| NO. | REV. | BID ITEM | DESC | S.P. CODE | APPROX. QUANTITY | UNIT BID PRICE ONLY WRITTEN IN WORDS | UNIT | AMOUNT BID |
|-----|------|-------------|------|--------------|---------------------|---|------|---------------|
| 1 | | 100 | 6002 | | 97.56 | PREPARING ROW, complete in place for the sum of: No Dollars and No Cents | STA | |
| 2 | | 104 | 6001 | | 2,660 | REMOVING CONC (PAV), complete in place for the sum of: No Dollars and No Cents | SY | |
| 3 | | 104 | 6021 | | 1,929 | REMOVING CONC (CURB), complete in place for the sum of: No Dollars and No Cents | LF | |
| 4 | | 105 | 6021 | | 904 | REMOVING STAB BASE AND ASPH PAV (0-4"), complete in place for the sum of: No Dollars and No Cents | SY | |
| 5 | | 105 | 6107 | | 1,402 | REMOVING STAB BASE & ASPH PAV(15"-16"), complete in place for the sum of: No Dollars and No Cents | SY | |
| 6 | | 106 | 6002 | | 8,145 | OBLITERATING ABANDONED ROAD, complete in place for the sum of: No Dollars and No Cents | SY | |
| 7 | | 110 | 6001 | | 58,572 | EXCAVATION (ROADWAY), complete in place for the sum of: No Dollars and No Cents | CY | |
| 8 | | 110 | 6002 | | 5,300 | EXCAVATION (CHANNEL), complete in place for the sum of: No Dollars and No Cents | CY | |
| 9 | | 132 | 6004 | 002 | 289,748 | EMBANKMENT (FINAL)(DENS CONT)(TY B), complete in place for the sum of: No Dollars and No Cents | CY | |
| 10 | | 132 | 6025 | 002 | 92,237 | EMBANKMENT (FINAL) (DENS CONT) (TY C1), complete in place for the sum of: No Dollars and No Cents | CY | |
| 11 | | 132 | 6026 | 002 | 3,502 | EMBANKMENT (FINAL) (DENS CONT) (TY C2), complete in place for the sum of: No Dollars and No Cents | CY | |
| 12 | | 164 | 6041 | | 248,440 | DRILL SEEDING (TEMP) (WARM), complete in place for the sum of: No Dollars and No Cents | SY | |

| NO. | REV. | BID ITEM | DESC | S.P. CODE | APPROX. QUANTITY | UNIT BID PRICE ONLY WRITTEN IN WORDS | UNIT | AMOUNT BID |
|-----|------|-------------|------|--------------|---------------------|--|------|---------------|
| 13 | | 164 | 6043 | | 248,440 | DRILL SEEDING (TEMP) (COOL), complete in place for the sum of: No Dollars and No Cents | SY | |
| 14 | | 164 | 6066 | | 496,880 | DRILL SEEDING (PERM)(WARM OR COOL), complete in place for the sum of: No Dollars and No Cents | SY | |
| 15 | | 168 | 6001 | | 117,040 | VEGETATIVE WATERING, complete in place for the sum of: No Dollars and No Cents | MG | |
| 16 | | 247 | 6230 | 003 | 53,968 | FL BS (CMP IN PLACE)(TY A GR 1-2)(8"), complete in place for the sum of: No Dollars and No Cents | SY | |
| 17 | | 260 | 6002 | | 26 | LIME (HYDRATED LIME (SLURRY)), complete in place for the sum of: No Dollars and No Cents | TON | |
| 18 | | 260 | 6027 | | 1,463 | LIME TRT (EXST MATL)(8"), complete in place for the sum of: No Dollars and No Cents | SY | |
| 19 | | 310 | 6027 | | 10,792 | PRIME COAT(MC-30 OR AE-P), complete in place for the sum of: No Dollars and No Cents | GAL | |
| 20 | | 340 | 6122 | | 195 | D-GR HMA(SQ) TY-D PG70-22, complete in place for the sum of: No Dollars and No Cents | TON | |
| 21 | | 341 | 6008 | 001 | 10,569 | D-GR HMA TY-B PG64-22, complete in place for the sum of: No Dollars and No Cents | TON | |
| 22 | | 360 | 6002 | | 1,081 | CONC PVMT (CONT REINF - CRCP) (8"), complete in place for the sum of: No Dollars and No Cents | SY | |
| 23 | | 360 | 6003 | | 39,147 | CONC PVMT (CONT REINF - CRCP) (9"), complete in place for the sum of: No Dollars and No Cents | SY | |
| 24 | | 360 | 6007 | | 6,480 | CONC PVMT (CONT REINF - CRCP) (13"), complete in place for the sum of: No Dollars and No Cents | SY | |

| NO. | REV. | BID ITEM | DESC | S.P. CODE | APPROX. QUANTITY | UNIT BID PRICE ONLY WRITTEN IN WORDS | UNIT | AMOUNT BID |
|-----|------|-------------|------|--------------|---------------------|---|------|---------------|
| 25 | | 360 | 6019 | | 398 | CONC PVMT (JOINTED - CPCD) (9"), complete in place for the sum of: No Dollars and No Cents | SY | |
| 26 | | 400 | 6001 | | 2,564 | STRUCT EXCAV, complete in place for the sum of: No Dollars and No Cents | CY | |
| 27 | | 400 | 6005 | | 541 | CEM STABIL BKFL, complete in place for the sum of: No Dollars and No Cents | CY | |
| 28 | | 402 | 6001 | | 374 | TRENCH EXCAVATION PROTECTION, complete in place for the sum of: No Dollars and No Cents | LF | |
| 29 | | 416 | 6001 | | 454 | DRILL SHAFT (18 IN), complete in place for the sum of: No Dollars and No Cents | LF | |
| 30 | | 416 | 6004 | | 3,000 | DRILL SHAFT (36 IN), complete in place for the sum of: No Dollars and No Cents | LF | |
| 31 | | 416 | 6005 | | 448 | DRILL SHAFT (42 IN), complete in place for the sum of: No Dollars and No Cents | LF | |
| 32 | | 416 | 6032 | | 39 | DRILL SHAFT (TRF SIG POLE) (36 IN), complete in place for the sum of: No Dollars and No Cents | LF | |
| 33 | | 420 | 6014 | | 154 | CL C CONC (ABUT)(HPC), complete in place for the sum of: No Dollars and No Cents | CY | |
| 34 | | 420 | 6030 | | 243.1 | CL C CONC (CAP)(HPC), complete in place for the sum of: No Dollars and No Cents | CY | |
| 35 | | 420 | 6038 | | 195.6 | CL C CONC (COLUMN)(HPC), complete in place for the sum of: No Dollars and No Cents | CY | |
| 36 | | 422 | 6002 | | 63,225.7 | REINF CONC SLAB (HPC), complete in place for the sum of: No Dollars and No Cents | SF | |

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|-----|------|-------------|------|--------------|---------------------|---|------|---------------|
| 37 | | 422 | 6016 | | 207.9 | APPROACH SLAB (HPC), complete in place for the sum of: No Dollars and No Cents | CY | |
| 38 | | 423 | 6001 | | 9,901 | RETAINING WALL (MSE), complete in place for the sum of: No Dollars and No Cents | SF | |
| 39 | | 425 | 6039 | | 6,894.7 | PRESTR CONC GIRDER (TX54), complete in place for the sum of: No Dollars and No Cents | LF | |
| 40 | | 425 | 6040 | | 1,011.43 | PRESTR CONC GIRDER (TX62), complete in place for the sum of: No Dollars and No Cents | LF | |
| 41 | | 432 | 6001 | | 449 | RIPRAP (CONC)(4 IN), complete in place for the sum of: No Dollars and No Cents | CY | |
| 42 | | 432 | 6002 | | 60 | RIPRAP (CONC)(5 IN), complete in place for the sum of: No Dollars and No Cents | CY | |
| 43 | | 432 | 6031 | | 770 | RIPRAP (STONE PROTECTION)(12 IN), complete in place for the sum of: No Dollars and No Cents | CY | |
| 44 | | 432 | 6033 | | 124 | RIPRAP (STONE PROTECTION)(18 IN), complete in place for the sum of: No Dollars and No Cents | CY | |
| 45 | | 432 | 6044 | | 71 | RIPRAP (CONC)(FLUME), complete in place for the sum of: No Dollars and No Cents | CY | |
| 46 | | 432 | 6045 | | 224 | RIPRAP (MOW STRIP)(4 IN), complete in place for the sum of: No Dollars and No Cents | CY | |
| 47 | | 450 | 6023 | | 1,086 | RAIL (TY SSTR), complete in place for the sum of: No Dollars and No Cents | LF | |
| 48 | | 450 | 6024 | | 2,963.3 | RAIL (TY SSTR)(HPC), complete in place for the sum of: No Dollars and No Cents | LF | |

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|-----|------|-------------|------|--------------|---------------------|--|------|---------------|
| 49 | | 454 | 6001 | | 343.8 | SEALED EXPANSION JOINT (4 IN) (SEJ - A), complete in place for the sum of: No Dollars and No Cents | LF | |
| 50 | | 462 | 6014 | | 159 | CONC BOX CULV (7 FT X 3 FT), complete in place for the sum of: No Dollars and No Cents | LF | |
| 51 | | 462 | 6109 | | 48 | CONC BOX CULV (8 FT X 3 FT)(EXTEND), complete in place for the sum of: No Dollars and No Cents | LF | |
| 52 | | 464 | 6003 | | 6,342 | RC PIPE (CL III)(18 IN), complete in place for the sum of: No Dollars and No Cents | LF | |
| 53 | | 464 | 6005 | | 1,313 | RC PIPE (CL III)(24 IN), complete in place for the sum of: No Dollars and No Cents | LF | |
| 54 | | 465 | 6002 | 001 | 6 | MANH (COMPL)(PRM)(48IN), complete in place for the sum of: No Dollars and No Cents | EA | |
| 55 | | 465 | 6013 | 001 | 32 | INLET (COMPL)(PCO)(3FT)(NONE), complete in place for the sum of: No Dollars and No Cents | EA | |
| 56 | | 465 | 6014 | 001 | 12 | INLET (COMPL)(PCO)(3FT)(LEFT), complete in place for the sum of: No Dollars and No Cents | EA | |
| 57 | | 465 | 6015 | 001 | 14 | INLET (COMPL)(PCO)(3FT)(RIGHT), complete in place for the sum of: No Dollars and No Cents | EA | |
| 58 | | 465 | 6016 | 001 | 4 | INLET (COMPL)(PCO)(3FT)(BOTH), complete in place for the sum of: No Dollars and No Cents | EA | |
| 59 | | 465 | 6133 | 001 | 5 | INLET (COMPL)(PSL)(FG)(4FTX5FT-3FTX5FT), complete in place for the sum of: No Dollars and No Cents | EA | |
| 60 | | 465 | 6158 | 001 | 3 | INLET(COMPL)(PAZD)(FG)(3FTX3FT-3FTX3FT), complete in place for the sum of: No Dollars and No Cents | EA | |

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|-----|------|-------------|------|--------------|---------------------|---|------|---------------|
| 61 | | 466 | 6152 | | 1 | WINGWALL (FW - 0) (HW=5 FT), complete in place for the sum of: No Dollars and No Cents | EA | |
| 62 | | 466 | 6153 | | 1 | WINGWALL (FW - 0) (HW=6 FT), complete in place for the sum of: No Dollars and No Cents | EA | |
| 63 | | 466 | 6180 | | 1 | WINGWALL (PW - 1) (HW=5 FT), complete in place for the sum of: No Dollars and No Cents | EA | |
| 64 | | 467 | 6356 | | 1 | SET (TY II) (18 IN) (RCP) (3: 1) (C), complete in place for the sum of: No Dollars and No Cents | EA | |
| 65 | | 467 | 6358 | | 5 | SET (TY II) (18 IN) (RCP) (4: 1) (C), complete in place for the sum of: No Dollars and No Cents | EA | |
| 66 | | 467 | 6362 | | 2 | SET (TY II) (18 IN) (RCP) (6: 1) (C), complete in place for the sum of: No Dollars and No Cents | EA | |
| 67 | | 467 | 6390 | | 5 | SET (TY II) (24 IN) (RCP) (4: 1) (C), complete in place for the sum of: No Dollars and No Cents | EA | |
| 68 | | 467 | 6391 | | 1 | SET (TY II) (24 IN) (RCP) (4: 1) (P), complete in place for the sum of: No Dollars and No Cents | EA | |
| 69 | | 467 | 6394 | | 1 | SET (TY II) (24 IN) (RCP) (6: 1) (C), complete in place for the sum of: No Dollars and No Cents | EA | |
| 70 | | 479 | 6006 | | 3 | ADJUSTING INLET (CAP), complete in place for the sum of: No Dollars and No Cents | EA | |
| 71 | | 480 | 6001 | | 3 | CLEAN EXIST CULVERTS, complete in place for the sum of: No Dollars and No Cents | EA | |
| 72 | | 481 | 6013 | | 340 | PIPE (PVC) (SCH 40) (6 IN), complete in place for the sum of: No Dollars and No Cents | LF | |

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|-----|------|-------------|------|--------------|---------------------|---|------|---------------|
| 73 | | 496 | 6002 | | 4 | REMOV STR (INLET), complete in place for the sum of: No Dollars and No Cents | EA | |
| 74 | | 496 | 6005 | | 1 | REMOV STR (WINGWALL), complete in place for the sum of: No Dollars and No Cents | EA | |
| 75 | | 496 | 6007 | | 416 | REMOV STR (PIPE), complete in place for the sum of: No Dollars and No Cents | LF | |
| 76 | | 496 | 6008 | | 18 | REMOV STR (BOX CULVERT), complete in place for the sum of: No Dollars and No Cents | LF | |
| 77 | | 496 | 6050 | | 4 | REMOV STR (DRIVEWAY CULVERT), complete in place for the sum of: No Dollars and No Cents | EA | |
| 78 | | 500 | 6001 | | 1 | MOBILIZATION, complete in place for the sum of: No Dollars and No Cents | LS | |
| 79 | | 502 | 6001 | | 21 | BARRICADES, SIGNS AND TRAFFIC HANDLING, complete in place for the sum of: No Dollars and No Cents | MO | |
| 80 | | 502 | 6001 | | | BARRICADES, SIGNS AND TRAFFIC HANDLING, complete in place for the sum of: No Dollars and No Cents | MO | |
| 81 | | 506 | 6002 | 001 | 945 | ROCK FILTER DAMS (INSTALL) (TY 2), complete in place for the sum of: No Dollars and No Cents | LF | |
| 82 | | 506 | 6003 | 001 | 30 | ROCK FILTER DAMS (INSTALL) (TY 3), complete in place for the sum of: No Dollars and No Cents | LF | |
| 83 | | 506 | 6011 | 001 | 975 | ROCK FILTER DAMS (REMOVE), complete in place for the sum of: No Dollars and No Cents | LF | |
| 84 | | 506 | 6020 | 001 | 234 | CONSTRUCTION EXITS (INSTALL) (TY 1), complete in place for the sum of: No Dollars and No Cents | SY | |

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|-----|------|-------------|------|--------------|---------------------|--|------|---------------|
| 85 | | 506 | 6024 | 001 | 234 | CONSTRUCTION EXITS (REMOVE), complete in place for the sum of: No Dollars and No Cents | SY | |
| 86 | | 506 | 6038 | 001 | 11,851 | TEMP SEDMT CONT FENCE (INSTALL), complete in place for the sum of: No Dollars and No Cents | LF | |
| 87 | | 506 | 6039 | 001 | 11,851 | TEMP SEDMT CONT FENCE (REMOVE), complete in place for the sum of: No Dollars and No Cents | LF | |
| 88 | | 506 | 6041 | 001 | 3,100 | BIODEG EROSN CONT LOGS (INSTL) (12"), complete in place for the sum of: No Dollars and No Cents | LF | |
| 89 | | 506 | 6043 | 001 | 3,100 | BIODEG EROSN CONT LOGS (REMOVE), complete in place for the sum of: No Dollars and No Cents | LF | |
| 90 | | 508 | 6001 | | 6,803 | CONSTRUCTING DETOURS, complete in place for the sum of: No Dollars and No Cents | SY | |
| 91 | | 512 | 6009 | | 640 | PORT CTB (FUR & INST)(LOW PROF)(TY 1), complete in place for the sum of: No Dollars and No Cents | LF | |
| 92 | | 512 | 6010 | | 60 | PORT CTB (FUR & INST)(LOW PROF)(TY 2), complete in place for the sum of: No Dollars and No Cents | LF | |
| 93 | | 512 | 6033 | | 330 | PORT CTB (MOVE)(LOW PROF)(TY 1), complete in place for the sum of: No Dollars and No Cents | LF | |
| 94 | | 512 | 6034 | | 40 | PORT CTB (MOVE)(LOW PROF)(TY 2), complete in place for the sum of: No Dollars and No Cents | LF | |
| 95 | | 512 | 6057 | | 640 | PORT CTB (REMOVE)(LOW PROF)(TY 1), complete in place for the sum of: No Dollars and No Cents | LF | |
| 96 | | 512 | 6058 | | 60 | PORT CTB (REMOVE)(LOW PROF)(TY 2), complete in place for the sum of: No Dollars and No Cents | LF | |

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|-----|------|-------------|------|--------------|---------------------|---|------|---------------|
| 97 | | 514 | 6001 | | 540 | PERM CTB (SGL SLOPE) (TY 1) (42), complete in place for the sum of: No Dollars and No Cents | LF | |
| 98 | | 529 | 6005 | | 19,691 | CONC CURB (MONO) (TY II), complete in place for the sum of: No Dollars and No Cents | LF | |
| 99 | | 530 | 6001 | | 244 | INTERSECTIONS (CONC), complete in place for the sum of: No Dollars and No Cents | SY | |
| 100 | | 530 | 6004 | | 232 | DRIVEWAYS (CONC), complete in place for the sum of: No Dollars and No Cents | SY | |
| 101 | | 530 | 6006 | | 729 | DRIVEWAYS (SURF TREAT), complete in place for the sum of: No Dollars and No Cents | SY | |
| 102 | | 531 | 6004 | | 4 | CURB RAMPS (TY 1), complete in place for the sum of: No Dollars and No Cents | EA | |
| 103 | | 531 | 6017 | | 2 | CURB RAMPS (TY 22), complete in place for the sum of: No Dollars and No Cents | EA | |
| 104 | | 536 | 6004 | | 79 | CONC DIRECTIONAL ISLAND, complete in place for the sum of: No Dollars and No Cents | SY | |
| 105 | | 540 | 6002 | | 1,150 | MTL W-BEAM GD FEN (STEEL POST), complete in place for the sum of: No Dollars and No Cents | LF | |
| 106 | | 540 | 6006 | | 6 | MTL BEAM GD FEN TRANS (THRIE-BEAM), complete in place for the sum of: No Dollars and No Cents | EA | |
| 107 | | 540 | 6020 | | 50 | MTL W - BEAM GD FEN (LOW FILL CULVERT), complete in place for the sum of: No Dollars and No Cents | LF | |
| 108 | | 544 | 6001 | | 10 | GUARDRAIL END TREATMENT (INSTALL), complete in place for the sum of: No Dollars and No Cents | EA | |

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|-----|------|-------------|------|--------------|---------------------|---|------|---------------|
| 109 | | 545 | 6001 | | 2 | CRASH CUSH ATTEN (INSTL), complete in place for the sum of: No Dollars and No Cents | EA | |
| 110 | | 556 | 6006 | | 1,065 | PIPE UNDERDRAINS (TY 6) (6"), complete in place for the sum of: No Dollars and No Cents | LF | |
| 111 | | 618 | 6023 | | 140 | CONDT (PVC) (SCH 40) (2"), complete in place for the sum of: No Dollars and No Cents | LF | |
| 112 | | 618 | 6029 | | 130 | CONDT (PVC) (SCH 40) (3"), complete in place for the sum of: No Dollars and No Cents | LF | |
| 113 | | 618 | 6030 | | 260 | CONDT (PVC) (SCH 40) (3") (BORE), complete in place for the sum of: No Dollars and No Cents | LF | |
| 114 | | 618 | 6046 | | 100 | CONDT (PVC) (SCH 80) (2"), complete in place for the sum of: No Dollars and No Cents | LF | |
| 115 | | 620 | 6007 | | 505 | ELEC CONDR (NO.8) BARE, complete in place for the sum of: No Dollars and No Cents | LF | |
| 116 | | 620 | 6008 | | 840 | ELEC CONDR (NO.8) INSULATED, complete in place for the sum of: No Dollars and No Cents | LF | |
| 117 | | 621 | 6002 | | 920 | TRAY CABLE (3 CONDR) (12 AWG), complete in place for the sum of: No Dollars and No Cents | LF | |
| 118 | | 624 | 6008 | | 9 | GROUND BOX TY C (162911)W/APRON, complete in place for the sum of: No Dollars and No Cents | EA | |
| 119 | | 628 | 6187 | | 1 | ELC SRV TY D 120/240 070(NS)SS(E)PS(U), complete in place for the sum of: No Dollars and No Cents | EA | |
| 120 | | 644 | 6001 | | 84 | IN SM RD SN SUP&AM TY10BWG(1)SA(P), complete in place for the sum of: No Dollars and No Cents | EA | |

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|-----|------|-------------|------|--------------|---------------------|---|------|---------------|
| 121 | | 644 | 6004 | | 4 | IN SM RD SN SUP&AM TY10BWG(1)SA(T), complete in place for the sum of: No Dollars and No Cents | EA | |
| 122 | | 644 | 6007 | | 2 | IN SM RD SN SUP&AM TY10BWG(1)SA(U), complete in place for the sum of: No Dollars and No Cents | EA | |
| 123 | | 644 | 6017 | | 2 | IN SM RD SN SUP&AM TY10BWG(2)SA(P), complete in place for the sum of: No Dollars and No Cents | EA | |
| 124 | | 644 | 6064 | | 2 | IN BRIDGE MNT CLEARANCE SGN ASSM(TY N), complete in place for the sum of: No Dollars and No Cents | EA | |
| 125 | | 644 | 6076 | | 5 | REMOVE SM RD SN SUP&AM, complete in place for the sum of: No Dollars and No Cents | EA | |
| 126 | | 658 | 6014 | | 77 | INSTL DEL ASSM (D-SW)SZ (BRF)CTB (BI), complete in place for the sum of: No Dollars and No Cents | EA | |
| 127 | | 658 | 6015 | | 46 | INSTL DEL ASSM (D-SW)SZ (BRF)GF1, complete in place for the sum of: No Dollars and No Cents | EA | |
| 128 | | 658 | 6048 | | 12 | INSTL OM ASSM (OM-2Z)(FLX)GND, complete in place for the sum of: No Dollars and No Cents | EA | |
| 129 | | 662 | 6063 | | 14,675 | WK ZN PAV MRK REMOV (W)4"(SLD), complete in place for the sum of: No Dollars and No Cents | LF | |
| 130 | | 662 | 6095 | | 8,668 | WK ZN PAV MRK REMOV (Y)4"(SLD), complete in place for the sum of: No Dollars and No Cents | LF | |
| 131 | | 666 | 6030 | 007 | 1,565 | REFL PAV MRK TY I (W)8"(DOT)(100MIL), complete in place for the sum of: No Dollars and No Cents | LF | |
| 132 | | 666 | 6036 | 007 | 4,323 | REFL PAV MRK TY I (W)8"(SLD)(100MIL), complete in place for the sum of: No Dollars and No Cents | LF | |

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|-----|------|-------------|------|--------------|---------------------|--|------|---------------|
| 133 | | 666 | 6042 | 007 | 809 | REFL PAV MRK TY I (W)12"(SLD)(100MIL), complete in place for the sum of: No Dollars and No Cents | LF | |
| 134 | | 666 | 6048 | 007 | 515 | REFL PAV MRK TY I (W)24"(SLD)(100MIL), complete in place for the sum of: No Dollars and No Cents | LF | |
| 135 | | 666 | 6054 | 007 | 28 | REFL PAV MRK TY I (W)(ARROW)(100MIL), complete in place for the sum of: No Dollars and No Cents | EA | |
| 136 | | 666 | 6078 | 007 | 27 | REFL PAV MRK TY I (W)(WORD)(100MIL), complete in place for the sum of: No Dollars and No Cents | EA | |
| 137 | | 666 | 6102 | 007 | 18 | REF PAV MRK TY I(W)36"(YLD TRI)(100MIL), complete in place for the sum of: No Dollars and No Cents | EA | |
| 138 | | 666 | 6141 | 007 | 1,327 | REFL PAV MRK TY I (Y)12"(SLD)(100MIL), complete in place for the sum of: No Dollars and No Cents | LF | |
| 139 | | 666 | 6224 | 007 | 56,428 | PAVEMENT SEALER 4", complete in place for the sum of: No Dollars and No Cents | LF | |
| 140 | | 666 | 6226 | 007 | 5,888 | PAVEMENT SEALER 8", complete in place for the sum of: No Dollars and No Cents | LF | |
| 141 | | 666 | 6228 | 007 | 2,136 | PAVEMENT SEALER 12", complete in place for the sum of: No Dollars and No Cents | LF | |
| 142 | | 666 | 6230 | 007 | 515 | PAVEMENT SEALER 24", complete in place for the sum of: No Dollars and No Cents | LF | |
| 143 | | 666 | 6231 | 007 | 28 | PAVEMENT SEALER (ARROW), complete in place for the sum of: No Dollars and No Cents | EA | |
| 144 | | 666 | 6232 | 007 | 27 | PAVEMENT SEALER (WORD), complete in place for the sum of: No Dollars and No Cents | EA | |

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|-----|------|-------------|------|--------------|---------------------|--|------|---------------|
| 145 | | 666 | 6243 | 007 | 18 | PAVEMENT SEALER (YLD TRI), complete in place for the sum of: No Dollars and No Cents | EA | |
| 146 | | 666 | 6303 | 007 | 26,020 | RE PM W/RET REQ TY I (W)4"(SLD)(100MIL), complete in place for the sum of: No Dollars and No Cents | LF | |
| 147 | | 666 | 6315 | 007 | 30,408 | RE PM W/RET REQ TY I (Y)4"(SLD)(100MIL), complete in place for the sum of: No Dollars and No Cents | LF | |
| 148 | | 672 | 6007 | | 176 | REFL PAV MRKR TY I-C, complete in place for the sum of: No Dollars and No Cents | EA | |
| 149 | | 672 | 6009 | | 474 | REFL PAV MRKR TY II-A-A, complete in place for the sum of: No Dollars and No Cents | EA | |
| 150 | | 672 | 6010 | | 51 | REFL PAV MRKR TY II-C-R, complete in place for the sum of: No Dollars and No Cents | EA | |
| 151 | | 677 | 6001 | | 1,004 | ELIM EXT PAV MRK & MRKS (4"), complete in place for the sum of: No Dollars and No Cents | LF | |
| 152 | | 677 | 6003 | | 506 | ELIM EXT PAV MRK & MRKS (8"), complete in place for the sum of: No Dollars and No Cents | LF | |
| 153 | | 677 | 6005 | | 1,528 | ELIM EXT PAV MRK & MRKS (12"), complete in place for the sum of: No Dollars and No Cents | LF | |
| 154 | | 677 | 6007 | | 54 | ELIM EXT PAV MRK & MRKS (24"), complete in place for the sum of: No Dollars and No Cents | LF | |
| 155 | | 677 | 6008 | | 4 | ELIM EXT PAV MRK & MRKS (ARROW), complete in place for the sum of: No Dollars and No Cents | EA | |
| 156 | | 677 | 6012 | | 4 | ELIM EXT PAV MRK & MRKS (WORD), complete in place for the sum of: No Dollars and No Cents | EA | |

| NO. | REV. | BID ITEM | DESC | S.P. CODE | APPROX. QUANTITY | UNIT BID PRICE ONLY WRITTEN IN WORDS | UNIT | AMOUNT BID |
|-----|------|-------------|------|--------------|---------------------|--|------|---------------|
| 157 | | 680 | 6002 | 006 | 1 | INSTALL HWY TRF SIG (ISOLATED), complete in place for the sum of: No Dollars and No Cents | EA | |
| 158 | | 681 | 6001 | | 1 | TEMP TRAF SIGNALS, complete in place for the sum of: No Dollars and No Cents | EA | |
| 159 | | 682 | 6001 | | 4 | VEH SIG SEC (12")LED(GRN), complete in place for the sum of: No Dollars and No Cents | EA | |
| 160 | | 682 | 6002 | | 2 | VEH SIG SEC (12")LED(GRN ARW), complete in place for the sum of: No Dollars and No Cents | EA | |
| 161 | | 682 | 6003 | | 4 | VEH SIG SEC (12")LED(YEL), complete in place for the sum of: No Dollars and No Cents | EA | |
| 162 | | 682 | 6004 | | 4 | VEH SIG SEC (12")LED(YEL ARW), complete in place for the sum of: No Dollars and No Cents | EA | |
| 163 | | 682 | 6005 | | 4 | VEH SIG SEC (12")LED(RED), complete in place for the sum of: No Dollars and No Cents | EA | |
| 164 | | 682 | 6006 | | 4 | VEH SIG SEC (12")LED(RED ARW), complete in place for the sum of: No Dollars and No Cents | EA | |
| 165 | | 682 | 6018 | | 6 | PED SIG SEC (LED)(COUNTDOWN), complete in place for the sum of: No Dollars and No Cents | EA | |
| 166 | | 682 | 6023 | | 4 | BACK PLATE (12")(3 SEC), complete in place for the sum of: No Dollars and No Cents | EA | |
| 167 | | 682 | 6025 | | 2 | BACK PLATE (12")(5 SEC), complete in place for the sum of: No Dollars and No Cents | EA | |
| 168 | | 684 | 6031 | | 234 | TRF SIG CBL (TY A)(14 AWG)(5 CONDR), complete in place for the sum of: No Dollars and No Cents | LF | |

| NO. | REV. | BID ITEM | DESC | S.P. CODE | APPROX. QUANTITY | UNIT BID PRICE ONLY WRITTEN IN WORDS | UNIT | AMOUNT BID |
|-----|------|-------------|------|--------------|---------------------|---|------|---------------|
| 169 | | 684 | 6033 | | 123 | TRF SIG CBL (TY A)(14 AWG)(7 CONDR), complete in place for the sum of: No Dollars and No Cents | LF | |
| 170 | | 684 | 6036 | | 1,010 | TRF SIG CBL (TY A)(14 AWG)(10 CONDR), complete in place for the sum of: No Dollars and No Cents | LF | |
| 171 | | 684 | 6042 | | 750 | TRF SIG CBL (TY A)(14 AWG)(16 CONDR), complete in place for the sum of: No Dollars and No Cents | LF | |
| 172 | | 684 | 6079 | | 1,365 | TRF SIG CBL (TY C)(12 AWG)(2 CONDR), complete in place for the sum of: No Dollars and No Cents | LF | |
| 173 | | 686 | 6282 | | 4 | RELOC TRF SG PL AM(S)SNGL MST ARM POLE, complete in place for the sum of: No Dollars and No Cents | EA | |
| 174 | | 687 | 6001 | | 3 | PED POLE ASSEMBLY, complete in place for the sum of: No Dollars and No Cents | EA | |
| 175 | | 688 | 6001 | | 6 | PED DETECT PUSH BUTTON (APS), complete in place for the sum of: No Dollars and No Cents | EA | |
| 176 | | 690 | 6057 | | 10 | REMOVAL OF PEDESTRIAN RAMPS, complete in place for the sum of: No Dollars and No Cents | EA | |
| 177 | | 856 | 1001 | | 8,141 | MOISTURE TREATED SUBGRADE, complete in place for the sum of: No Dollars and No Cents | CY | |
| 178 | | 6027 | 6003 | | 175 | CONDUIT (PREPARE), complete in place for the sum of: No Dollars and No Cents | LF | |
| 179 | | 6027 | 6008 | | 2 | GROUND BOX (PREPARE), complete in place for the sum of: No Dollars and No Cents | EA | |
| 180 | | 6090 | 6002 | | 4 | ILSN (LED) (8 D), complete in place for the sum of: No Dollars and No Cents | EA | |

| NO. | REV. | BID ITEM | DESC | S.P. CODE | APPROX. QUANTITY | UNIT BID PRICE ONLY WRITTEN IN WORDS | UNIT | AMOUNT BID |
|-----|------|-------------|------|--------------|---------------------|---|------|---------------|
| 181 | | 6292 | 6001 | | 2 | RVDS(PRESENCE DETECTION ONLY), complete in place for the sum of: No Dollars and No Cents | EA | |
| 182 | | 6292 | 6003 | | 4 | RVDS(PRESENCE AND ADVANCE DET), complete in place for the sum of: No Dollars and No Cents | EA | |
| 183 | | CC543 | 1001 | | 765 | CABLE BARRIER SYSTEM, complete in place for the sum of: No Dollars and No Cents | LF | |
| 184 | | CC502 | 1001 | | 100 | RAILROAD FLAGGING, complete in place for the sum of: No Dollars and No Cents | DAY | |

TOTAL AMOUNT BID

\$ _____

DOLLARS

(TOTAL AMOUNT IN WORDS)

| | |
|-----|---|
| 680 | HIGHWAY TRAFFIC SIGNALS (416)(610)(618)(624)(625)(627)(628)(636)(656)(682)(684)(686)(688) |
| 681 | TEMPORARY TRAFFIC SIGNALS (416)(610)(618)(620)(621)(622)(624)(625)(627)(628)(636)(644)(656)(680)(682)(684)(686)(687)(688)(690) |
| 682 | VEHICLE AND PEDESTRIAN SIGNAL HEADS |
| 684 | TRAFFIC SIGNAL CABLES (9) |
| 686 | TRAFFIC SIGNAL POLE ASSEMBLIES (STEEL) (416)(421)(441)(442)(445)(449) |
| 687 | PEDESTAL POLE ASSEMBLIES (445)(449)(656)(682) |
| 688 | PEDESTRIAN DETECTORS AND VEHICLE LOOP DETECTORS (9)(618)(624)(324)(682)(684) |
| 690 | MAINTENANCE OF TRAFFIC SIGNALS (416)(421)(476)(610)(618)(620)(622)(624)(625)(627)(628)(636)(656)(680)(682)(684)(685)(686)(687)(688) |

C. SPECIAL PROVISIONS:

Special Provisions and General Notes will govern and take precedence over the Standard Specifications and Special Specifications enumerated hereon wherever in conflict therewith.

| <u>ITEM</u> | <u>TITLE</u> |
|---------------------------|--|
| SPECIAL PROVISION 004-002 | Scope of Work |
| SPECIAL PROVISION 005-002 | Control of the Work |
| SPECIAL PROVISION 006-012 | Control of Materials |
| SPECIAL PROVISION 007-001 | Legal Relations and Responsibilities |
| SPECIAL PROVISION 007-004 | Legal Relations and Responsibilities |
| SPECIAL PROVISION 132-002 | Embankment |
| SPECIAL PROVISION 247-003 | Flexible Base |
| SPECIAL PROVISION 300-015 | Asphalts, Oils, and Emulsions |
| SPECIAL PROVISION 341-001 | Dense – Graded Hot-Mix Asphalt |
| SPECIAL PROVISION 421-002 | Hydraulic Cement Concrete |
| SPECIAL PROVISION 441-001 | Steel Structures |
| SPECIAL PROVISION 465-001 | Junction Boxes, Manholes, and Inlets |
| SPECIAL PROVISION 506-001 | Temporary Erosion, Sedimentation, and Environmental Controls |
| SPECIAL PROVISION 636-001 | Signs |
| SPECIAL PROVISION 643-001 | Sign Identification Decals |
| SPECIAL PROVISION 666-007 | Retroreflectorized Pavement Markings |
| SPECIAL PROVISION 680-006 | Highway Traffic Signals |

D. SPECIAL SPECIFICATIONS:

Special Provisions and General Notes will govern and take precedence over the Standard Specifications and Special Specifications enumerated hereon wherever in conflict therewith.

| <u>ITEM</u> | <u>TITLE</u> |
|-------------|--|
| 856 | Moisture Treated Subgrade (110,132,210,216) |
| 6090 | LED Internally Illuminated Street Name Signs |
| 6109 | Powder Coating |
| 6292 | Radar Vehicle Detection System for Signalized Intersection Control |
| CC543 | Cable Barrier System |
| CC502 | Railroad Flagging |



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Produce castings under radiographic control sufficient to establish and verify a product free from harmful internal defects. Heat-treat the entire lot of castings to the specified temper when required.

Permanently mark the heat or lot number on the web or top of the base of all castings. Furnish mill test reports showing the heat or lot number, chemical composition, tensile strength, elongation, and number of pieces for each casting heat or lot. Furnish the entire number of acceptable posts cast from each heat or lot except when a portion is required to complete a project.

- 3.1.2. Galvanize all portions of cable barrier system after fabrication in accordance with Item 445, "Galvanizing," unless otherwise noted on the plans. Apply appearance coat to galvanized surface in accordance with Item 445, "Galvanizing," when shown on the plans. When painting is specified in place of galvanizing, shop paint steel in accordance with Item 441, "Steel Structures." Repair any damage to galvanized or painted surfaces after erection in accordance with Items 445, "Galvanizing," and Item 446, "Field Cleaning and Painting Steel," respectively.

Before final acceptance, clean surfaces of aluminum and galvanized steel railing not shown to be painted to remove extrusion marks, grease, dirt, and all other surface contaminants.

Store cable barrier system materials above the ground on platforms, skids, or other supports, and keep them free from grease, dirt, and contact with dissimilar metals. Avoid scratching, marring, denting, discoloring, or otherwise damaging the railing.

- 3.2. Cable barrier system may be sampled in accordance with [Tex-713-I](#). The Engineer may sample bolts and nuts in accordance with [Tex-708-I](#) for galvanized coating testing.

4. MEASUREMENT

This Item will be measured by the foot of cable barrier system including tensioning sections and terminal post section installed.

This is a plans quantity measurement Item. The quantity to be paid for is the quantity shown in the proposal except as modified by Article 9.2., "Plans Quantity Measurement." Additional measurements or calculations will be made if adjustments of quantities are required.

5. PAYMENT

The work performed and the materials furnished in accordance with this Item and measured as provided under "Measurement" will be paid for at the unit price bid for "Cable Barrier System" of the loading specified in the plans. This price is full compensation for furnishing cable barrier system, cable barrier post section, tensioning section, grout, structural steel, cast steel, pipe, nut, bolts, tensioners, removal and disposal of materials; hardware, galvanizing, equipment, labor, tools, and incidentals.

Special Specification CC502

Railroad Flagging

1. DESCRIPTION

Scheduling, coordinating, receiving and payment of invoices, and all incidentals directly with the BNSF Railway for work within 25 feet of a railroad track. Refer to RAILROAD REQUIREMENTS FOR BRIDGE CONSTRUCTION plan sheets for addition information.

Exhibit "C" within Appendix A provides the Contractor Requirements for the construction agreement between Collin Country and BNSF Railway (BNSF). The Contractor shall adhere to all requirements for Railroad Flagging in Exhibit "C" within Appendix A.

Pursuant to the provisions of 49 CFR Part 214, any person who willfully fails to provide worker protection in accordance with those regulations is subject to a civil penalty in the minimal amount of \$2500.00 per violation.

2. BILLING INFORMATION AND TERMS

Railroad Flagging rates are as shown in Section 1.05.03c under Railway Flagging Services of the construction agreement between Collin Country and BNSF Railway (BNSF).

Rates are effective for the duration of this construction contract."

3. MEASUREMENT

The work performed, materials furnished, and incidentals subsidiary to this Item for Railroad Flagging will be measured by the day or fraction of a day.

4. PAYMENT

The work performed and materials furnished in accordance with this item and measured as provided under "Measurement" will be paid for at the unit bid price for "Railroad Flagging". This price is full compensation for administration, superintendence, profit, labor, outside party flagging invoice, and all incidentals.

OUTER LOOP ACCESS ROAD
IFB NO. 2019-109

All bends and connections in pipes about 8 inches in diameter shall be prefabricated.

Item 465:

Do not include the Texas logo on manhole or inlet covers.

Item 479:

Accept ownership of inlet grates and manhole covers and properly dispose of them outside the limits of the right of way in accordance with federal, state and local regulations.

Submit a plan detailing proposed methods of handling phased construction at manholes and water valves.

Payment for the phase construction will be considered subsidiary to this item.

Item 496:

Concrete pavement removed as a result of removing the inlets will not be paid for directly but will be considered as subsidiary to Item 496.

Inlet grates and manhole covers become the property of the contractor for disposal.

Item 500:

Material On Hand (MOH) will not be used in calculating partial payments for Mobilization.

Item 502:

Access will be provided to all business and residences at all times. Where turning radii are limited during phased construction at intersections, provide all weather surfaces such as RAP or base in turning movements to accommodate and to protect the traffic from edge drop-offs. Materials, labor, maintenance and removal for these temporary accesses and radii will not be paid for directly but will be considered subsidiary to the various bid items.

Provide written proposed lane closure information by 1:00 pm on the business day prior to the proposed closures. Do not close lanes when this requirement is not met.

When excavation is required next to a pavement lane carrying traffic and the widening is not completed by the end of the work day, backfill against the edge of the pavement with at least a 3:1 slope using an acceptable material to support vehicular traffic. Carefully remove and dispose of this material when work resumes. Backfilling pavement edges, and the materials required for the work will be subsidiary to this item.

Place barricades and signs in locations that do not obstruct the sight distance of drivers entering the highway from driveways or side streets.

Provide rectangular shape (CW12-2P) Temporary Clearance Signs on all bridges where the existing vertical clearance has changed. Install Signs to the satisfaction of the Engineer prior to opening to traffic. Plywood sign blanks will have minimum dimensions of 84" X 12". Work performed and materials are subsidiary to this item.

Do not commence work on the road before sunrise. Do not operate or park any equipment/machinery closer than 30 feet from the traveled roadway after sunset unless authorized by the Engineer.

When moving unlicensed equipment on or across any pavement or public highways, protect the pavement from all damage using an acceptable method.

OUTER LOOP ACCESS ROAD
IFB NO. 2019-109

Limit lane closures along Preston Rd and Dallas Parkway to the hours between 9:00 am and 3:30 pm. Work in other areas of the project is not restricted to this time frame.

1 Railroad flagging is required for all work near the railroad. All railroad flagging is subsidiary to this item.

A project sign (48"x36") shall be provided and maintained throughout the duration of the project. and is subsidiary to this item. Logo shall be provide upon request. Logo shall be produced in full color.



Item 506:

Take all practicable precautions to prevent debris from being discharged into the Waters of Texas or a designated wetland. Install Best Management Practices before demolition begins and maintain them during the demolition. Remove any debris or construction material that escapes containment devices and are discharged into the restricted areas, before the next rain event or within 24 hours of the discharge.

If temporary construction stream crossings are allowed under a Nationwide Permit, submit in writing for approval the type and location of each temporary stream crossing. Use temporary bridges, timber mats, or other structurally sound and non-eroding material for temporary stream crossings. A temporary culvert crossing will consist of storm sewer pipes and 4- to 8-inch nominal size rock. Temporary stream crossings must not cause more than minimal changes to the hydraulic flow characteristics of the stream, increase flooding, or cause more than minimal degradation of water quality. Remove the temporary stream crossings in their entirety and return the affected areas to their pre-existing elevation. All work and materials used for temporary construction stream crossings will not be paid for directly but are subsidiary to pertinent Items.

Item 508:

Testing of materials used in the construction of a temporary detour may be waived when approved by the Engineer.

Item 514:

Provide High Performance Concrete (HPC) and epoxy coated reinforcing for all Permanent Concrete Traffic Barrier located on bridge approaches or bridge slabs.