



200 North SH 360, Mansfield, TX 76063

Date: June 28, 2017

Texas Department of Transportation

Fort Worth District

Attn: Loyl Bussell, P.E.
Acting District Engineer
2501 SW Loop 820
Fort Worth, Texas 76133

RE: Field Modification Request (revised)

TxDOT SH360 South, (ROW CSJ 2266-02-145)
City of Grand Prairie, Project Utility Assembly Agreement 360-U-509
Utility relocations within the right-of-way of the SH360 South Project Limits

Dear Mr. Bussell,

On behalf of Lane-Abrams Joint Venture, CSJ Utility Coordinators, LLC would like to submit this field modification request for additional work associated with the relocation of City of Grand Prairie water facilities identified as Conflict 173. This adjustment is within the City of Grand Prairie.

Conflict 173: This facility is a 12" water line (WL) within the right-of-way at Ragland Road, SH360 Main Lane Station 895+00.

Please refer to the attached plan sheet. The 12" WL is being relocated to remove the line from beneath the proposed pavement at the SH360/Ragland Road intersection improvements.

The proposed Field Modification: the existing 12" WL at the connection point at the east end of the intersection improvements was found to be 6 feet south of the location shown on the construction plans. **An additional 20 linear feet of 12" WL** is necessary to complete the tie-in to the existing WL. Please refer to the attached sketch.



200 North SH 360, Mansfield, TX 76063

The estimated change to the relocation cost is an additional cost of:

| Item | Quantity | Unit Cost | Cost |
|---------------------------------------|----------|-----------|--------------------|
| 12" C900 PVC water line | 20 LF | \$ 180.00 | \$ 3600.00 |
| | | | |
| | | | |
| Subtotal Materials & Labor | | | \$ 3,600.00 |
| | | | |
| Change in Estimate Total | | | \$ 3,600.00 |

The additional cost will be 50% compensable to The City of Grand Prairie. Refer to the attached revised Project Cost Summary.

The proposed plan changes will be incorporated into the project "As-built" drawings. The proposed cost change will be added to the project cost true-up after construction is complete.

If you have any questions or require additional information, please, contact me through the information provided below.

Sincerely,

R. Dill, P.E.

Roy Dill, PE
Design Engineer

Tel. 512-806-0677

Email: roy.dill@kci.com

Attached: Field Modification Plan
Project Cost Estimate

cc: Joe Carter, PE, City of Grand Prairie, JS, LAJV Document Control

City of Grand Prairie
360-U-509



Water Lines at Camp Wisdom, New York,
Ragland, and Broad
Conflict No. 17, 18, 150, 151, 173, 175
Utility Cost Estimate Detail

| | |
|---|--------------|
| 1. Estimated Total Cost of Relocation (Including Betterments) | \$753,523.72 |
| 2. Less Betterment Credit | \$50,824.96 |
| 3. Less Accrued Depreciation | \$0.00 |
| 4. Less Salvage | \$0.00 |
| 5. Non-Betterment Estimate Cost | \$702,698.76 |
| 6. Elective Betterment Credit Percentage | 6.74% |
| 7. Effective Eligibility Ratio | 62.97% |

| | |
|---|--------------|
| 8. Estimated Amount to be Paid by City of Grand Prairie | \$279,061.10 |
|---|--------------|

Signed: _____
CITY OF GRAND PRAIRIE

Date: _____

Note: Effective Eligibility Ratio = (Line 1 - Line 8) / Line 1

**City of Grand Prairie
360-U-509**



**Water Lines at Camp Wisdom, New York,
Ragland, and Broad
Conflict No. 17, 18, 150, 151, 173, 175
Utility Cost Estimate Detail**

100% Compensable

| | | DB / TXDOT | COGP |
|---|---------------------|---------------------|-------------|
| Utility Relocation Costs within Easement | \$228,665.00 | | |
| Engineering Design (6.91% of Construction Cost) | \$15,800.75 | | |
| Construction Inspection (.77% of Construction Cost) | \$1,760.72 | | |
| Subtotal of 100% Compensable Items | \$246,226.47 | \$246,226.47 | |

50% Compensable

| | | | |
|---|---------------------|---------------------|---------------------|
| Utility Relocation Costs outside Easement | \$375,160.00 | | |
| Engineering Design (6.91% of Construction Cost) | \$25,923.56 | | |
| Construction Inspection (.77% of Construction Cost) | \$2,888.73 | | |
| Subtotal of 50% Compensable Items | \$403,972.29 | \$201,986.14 | \$201,986.14 |

0% Compensable

| | | | |
|---|--------------------|--|--------------------|
| Utility Installation - Betterment | \$47,200.00 | | |
| Engineering Design (6.91% of Construction Cost) | \$3,261.52 | | |
| Construction Inspection (.77% of Construction Cost) | \$363.44 | | |
| Subtotal of 0% Compensable Items | \$50,824.96 | | \$50,824.96 |

50% Compensable

| | | | |
|--|--------------------|--------------------|--------------------|
| Surveying | \$7,500.00 | | |
| Review Engineer & Inspection (City of Grand Prairie) | \$35,000.00 | | |
| Traffic Control | \$10,000.00 | | |
| Subtotal 50% Compensable Items | \$52,500.00 | \$26,250.00 | \$26,250.00 |

Total Construction Cost

\$753,523.72

Estimated amount to be paid by LAJV

\$474,462.62

Estimated amount to be paid by the City of Grand Prairie

\$279,061.10

360-U-509
Water Lines at Ragland Road
ESTIMATE

| RELOCATION WITHIN EASEMENT (100% COMPENSABLE) | | | | | |
|---|-------------------------------------|----------|------|--------------|----------------------|
| Item No. | Description | Est. Qty | Unit | Unit Price | Total Estimated Cost |
| 1 | 30" RCCP WATERLINE | 120 | LF | \$ 575.00 | \$ 69,000.00 |
| 2 | 48" STEEL ENCASEMENT BY OPEN CUT | 35 | LF | \$ 585.00 | \$ 20,475.00 |
| 3 | 24" DIRECT BURY GATE VALVE | 2 | EA | \$ 8,400.00 | \$ 16,800.00 |
| 4 | CONNECT TO EXIST 30" WL (PVC OR DI) | 2 | EA | \$ 9,000.00 | \$ 18,000.00 |
| 5 | 2" AIR RELEASE VALVE | 1 | EA | \$ 12,500.00 | \$ 12,500.00 |
| 6 | GROUT EXISTING WATERLINE | 10 | CY | \$ 250.00 | \$ 2,500.00 |

TOTAL ESTIMATED COST OF RELOCATE = \$ 139,275.00

| RELOCATION (50% COMPENSABLE) | | | | | |
|------------------------------|----------------------------------|----------|------|-------------|----------------------|
| Item No. | Description | Est. Qty | Unit | Unit Price | Total Estimated Cost |
| 1 | MOBILIZATION | 1 | LS | \$ 5,000.00 | \$ 5,000.00 |
| 2 | 12" C900 PVC WATERLINE | 216 | LF | \$ 180.00 | \$ 38,880.00 |
| 3 | 12" DIRECT BURY GATE VALVE | 2 | EA | \$ 4,000.00 | \$ 8,000.00 |
| 4 | 30" RCCP WATERLINE | 75 | LF | \$ 575.00 | \$ 43,125.00 |
| 5 | 48" STEEL ENCASEMENT BY OPEN CUT | 75 | LF | \$ 585.00 | \$ 43,875.00 |
| 6 | GROUT EXISTING WATERLINE | 23 | CY | \$ 250.00 | \$ 5,750.00 |

TOTAL ESTIMATED COST OF RELOCATE = \$ 139,630.00

| BETTERMENT | | | | | |
|------------|--------------------|----|----|-----------|--------------|
| 1 | 30" RCCP WATERLINE | 20 | LF | \$ 575.00 | \$ 11,500.00 |

TOTAL ESTIMATED COST OF RELOCATE = \$ 11,500.00

360-U-509
Water Lines At New York Avenue
ESTIMATE

| Item No. | Description | Est. Qty | Unit | Unit Price | Total Estimated Cost |
|----------|--|----------|------|--------------|----------------------|
| 1 | 48" SPLIT STEEL ENCASEMENT | 33 | LF | \$ 710.00 | \$ 23,430.00 |
| 2 | CONNECT TO EXIST 30" WL W/STEEL ENCASEMENT | 1 | EA | \$ 4,000.00 | \$ 4,000.00 |
| 3 | 30" X 16" SS TAPPING SLEEVE | 1 | EA | \$ 22,000.00 | \$ 22,000.00 |
| 4 | RELOCATE 24" GATE VALVE | 1 | EA | \$ 5,000.00 | \$ 5,000.00 |

TOTAL ESTIMATED COST OF RELOCATE = \$ 54,430.00

| RELOCATION (50% COMPENSABLE) | | | | | |
|------------------------------|--|----------|------|-------------|----------------------|
| Item No. | Description | Est. Qty | Unit | Unit Price | Total Estimated Cost |
| 1 | MOBILIZATION | 1 | LS | \$ 5,000.00 | \$ 5,000.00 |
| 2 | 48" SPLIT STEEL ENCASEMENT | 12 | LF | \$ 710.00 | \$ 8,520.00 |
| 3 | 16" C905 PVC WATERLINE | 195 | LF | \$ 185.00 | \$ 36,075.00 |
| 4 | 16" GATE VALVE | 1 | EA | \$ 6,000.00 | \$ 6,000.00 |
| 5 | CONNECT TO EXIST 30" WL W/STEEL ENCASEMENT | 1 | EA | \$ 4,000.00 | \$ 4,000.00 |
| 6 | GROUT EXIST 16" WATERLINE | 11 | CY | \$ 250.00 | \$ 2,750.00 |

TOTAL ESTIMATED COST OF RELOCATE = \$ 57,345.00

360-U-509
Water Lines At Camp Wisdom Road
ESTIMATE

| RELOCATION WITHIN EASEMENT (100% COMPENSABLE) | | | | | |
|---|-------------------------------------|----------|------|-------------|----------------------|
| Item No. | Description | Est. Qty | Unit | Unit Price | Total Estimated Cost |
| 1 | 18" C905 PVC WATERLINE | 20 | LF | \$ 360.00 | \$ 7,200.00 |
| 2 | 16" C905 PVC WATERLINE | 15 | LF | \$ 185.00 | \$ 2,775.00 |
| 3 | 24" SPLIT STEEL ENCASEMENT | 15 | LF | \$ 385.00 | \$ 5,775.00 |
| 4 | 12" DIRECT BURY GATE VALVE | 1 | EA | \$ 4,000.00 | \$ 4,000.00 |
| 5 | CONNECT TO EXIST 16" WL (PVC OR DI) | 1 | EA | \$ 6,960.00 | \$ 6,960.00 |
| 6 | 12" PVC WATERLINE | 50 | LF | \$ 150.00 | \$ 7,500.00 |
| 7 | 6" FLOWABLE FILL | 5 | CY | \$ 150.00 | \$ 750.00 |

TOTAL ESTIMATED COST OF RELOCATE = \$ 34,960.00

| RELOCATION (50% COMPENSABLE) | | | | | |
|------------------------------|--|----------|------|--------------|----------------------|
| Item No. | Description | Est. Qty | Unit | Unit Price | Total Estimated Cost |
| 1 | MOBILIZATION | 1 | LS | \$ 5,000.00 | \$ 5,000.00 |
| 2 | CONNECT TO EXIST 18" WL (PVC OR DI) | 1 | EA | \$ 9,095.00 | \$ 9,095.00 |
| 3 | 18" C905 WATERLINE | 275 | LF | \$ 360.00 | \$ 99,000.00 |
| 4 | 18" BUTTERFLY WATER VALVE | 1 | EA | \$ 6,000.00 | \$ 6,000.00 |
| 5 | 24" SPLIT STEEL ENCASEMENT | 125 | LF | \$ 385.00 | \$ 48,125.00 |
| 6 | 16" C905 WATERLINE | 14 | LF | \$ 185.00 | \$ 2,590.00 |
| 7 | 2" COMBINATION AIR & VACUUM RELEASE ASSEMBLY | 1 | EA | \$ 13,375.00 | \$ 13,375.00 |

TOTAL ESTIMATED COST OF RELOCATE = \$ 178,185.00

360-U-509
Water Lines At Broad Street
BETTERMENT ESTIMATE

| Item No. | Description | Est. Qty | Unit | Unit Price | Total Estimated Cost |
|----------|--------------------------------------|----------|------|-------------|----------------------|
| 1 | MOBILIZATION | 1 | LS | \$ 5,000.00 | \$ 5,000.00 |
| 2 | Remove and Salvage to City 30" Valve | 1 | LF | \$ 4,000.00 | \$ 4,000.00 |
| 3 | 16" Butterfly Valve | 1 | EA | \$ 6,000.00 | \$ 6,000.00 |
| 4 | Miscellaneous Fittings | 1.4 | TON | \$ 2,500.00 | \$ 3,500.00 |
| 5 | 16" C905 Water Line | 120 | LF | \$ 185.00 | \$ 22,200.00 |

TOTAL ESTIMATED COST OF BETTERMENT = \$ 35,700.00

Engineering Design and Construction Inspection Cost

| Engineering Design | | | | | |
|-----------------------------|----------------------|-----------|------|------------|----------------------|
| Item No. | Description | Est. Qty. | Unit | Unit Price | Total Estimated Cost |
| 1 | Utility Coordination | 100.0 | HRS | \$ 85.00 | \$ 8,500.00 |
| 2 | Utility Design | 300.0 | HRS | \$ 85.00 | \$ 25,500.00 |
| 3 | Utility Technician | 200.0 | HRS | \$ 55.00 | \$ 11,000.00 |
| Engineering Design Subtotal | | | | | \$ 45,000.00 |

| Construction Inspection | | | | | |
|----------------------------------|-------------------------|-----------|------|------------|----------------------|
| Item No. | Description | Est. Qty. | Unit | Unit Price | Total Estimated Cost |
| 1 | Construction Inspection | 200.0 | HRS | \$ 25.00 | \$ 5,000.00 |
| Construction Inspection Subtotal | | | | \$ | 5,000.00 |

TOTAL ESTIMATED COST = \$ 50,000.00