

### WILLIAMSON COUNTY, TEXAS CHANGE ORDER NUMBER: 4

Received Received MAR 14 2012 MAR 5 2012

| 1. CONTRACTOR: Dan Williams Company  |  | Prujed Rock TB Grwegostion  |
|--|--|---|
| 2. Change Order Work Limits: Sta. 9+00 to  | Sta. 12+00   | Roadway: O'Connor Dr Ext  |
| 3. Type of Change(on federal-aid non-exempt projects):   | Minor (Major/Minor)  | Purchase Order<br>Number:   |
| 4. Reasons: 3H, 3F, 4B (3 Max In order o   | f importance - Primary first)  | Hamber.   |
| Describe the work being revised:     County Convenience. Cost savings opportunity discovery.   | red during construction. This  | Change Order provides for   |
| changes to the signal and roadway work at the intersection of O'C minimize rework. <b>3F: County Convenience.</b> Additional work d of the roadway and the width of the center median so that the strip layout of the lanes north of RM 620. <b>4B: Third Party Accommo</b> compensates the Contractor for changing the landscape paver pa Neighborhood Association. | esired by the County. This Choing layout of the lanes south of dation. Third party requested ttern on O'Connor, north of RM  | nange Order adjusts the alignment<br>RM 620 line up with the striping<br>work. This Change Order also |
| 6. Work to be performed in accordance with Items:  | Attached 2 4 12 12A 16-17  | 7, 19, 35-36, 42, 133, 157-   |
| 7. New or revised plan sheet(s) are attached and numbered  | <u>159, 190-193</u>  |   |
| New Special Provisions to the contract are attached:   | ☐ Yes ☑  | No  |
| 9. New Special Provisions to Item N/A No. N/A , Sp   | · · · · · · · · · · · · · · · · · · ·  | <del>-</del>  |
| Each signatory hereby warrants that each has the authority   |  | <u> </u>  |
| The contractor must sign the Change Order and, by doing so, agrees to waive any and all claims for additional compensation due to any and all other expenses; additional changes for time, overhead and profit; or loss of compensation as a result of this change.  | The following information of the following in | Days added on this CO: 0  |
| THE CONTRACTOR Date 3-2-12   | Amount added by this chang   | ge order: (\$3,842.95)  |
| By Level   |  |   |
| Typed/Printed Name   | 2  |   |
| Typed/Printed Title  | 45   |   |
| RECOMMENDED FOR EXECUTION:   |  |   |
| Project Manager Date   | County Commissio   | ner Precinct 1 Date  REQUEST APPROVAL   |
| N/A Design Engineer Date   | County Commissio   | ner Precinct 2 Date REQUEST APPROVAL  |
| Program Manager Date   | County Commissio   | oner Precinct 3 Date  REQUEST APPROVAL  |
| Design Engineer's Seal:  See Revised Plan Sheets   | County Commissio   | ner Precinct 4 Date REQUEST APPROVAL  |
|  |  |   |

County Judge

APPROVED

Date

### WILLIAMSON COUNTY, TEXAS

| CHANGE ORDER NUMBER: | 4 | Project # | 11WC906 |
|----------------------|---|-----------|---------|
|                      |   |           |         |

 TABLE A: Force Account Work and Materials Placed into Stock

| LABOR   | HOURLY RATE |  | HOURLY RATE |
|---|-------------|--|-------------|
| PAYMENT FOR ITEM 9004-000 AND 9007-000 WILL BE TRACKED  |             |  |             |
| ACCORDING TO THE "GENERAL CONDITIONS OF AGREEMENT" AS   |             |  |             |
| DEFINED IN SECTION 13, PART 6, EXTRA WORK AND CLAIMS.   |             |  |             |
|   |             |  |             |
| METHOD "C" WILL BE USED TO PAY THE "ACTUAL FIELD COSTS" |             |  |             |
| OF THE WORK.  |             |  |             |
|   |             |  |             |
|   |             |  |             |
|   |             |  |             |

TABLE B: Contract Items

|          |   |      | . + PREVIOUSLY<br>EVISED | ADD or (DEDUCT) | ) NEW          |          |           |                |                      |
|----------|---|------|--------------------------|-----------------|----------------|----------|-----------|----------------|----------------------|
| ITEM     | DESCRIPTION                                     | UNIT | UNIT PRICE               | QUANTITY        | ITEM COST      | QUANTITY | QUANTITY  | ITEM COST      | OVERRUN/<br>UNDERRUN |
| 110-2001 | EXCAVATION (ROADWAY)                            | CY   | \$6.00                   | 19,608.00       | \$117,648.00   | 278.00   | 19,886.00 | \$119,316.00   | \$1,668.00           |
| 160-2003 | FURNISHING AND PLACING TOPSOIL (4")             | SY   | \$1.00                   | 84,011.00       | \$84,011.00    | 668.00   | 84,679.00 | \$84,679.00    | \$668.00             |
| 164-2009 | BROADCAST SEED (TEMP)(WARM)                     | SY   | \$0.20                   | 42,006.00       | \$8,401.20     | 334.00   | 42,340.00 | \$8,468.00     | \$66.80              |
|          | BROADCAST SEED (TEMP)(COOL)                     | SY   | \$0.20                   | 42,006.00       | \$8,401.20     | 334.00   | 42,340.00 | \$8,468.00     | \$66.80              |
| 164-2035 | DRILL SEEDING (PERM)(RURAL)(CLAY)               | SY   | \$0.20                   | 83,409.00       | \$16,681.80    | 668.00   | 84,077.00 | \$16,815.40    | \$133.60             |
| 247-2366 | FL BS (CMP IN PLC)(TY A GR 5)(FINAL POS)        | CY   | \$20.00                  | 26,698.00       | \$533,960.00   | 278.00   | 26,976.00 | \$539,520.00   | \$5,560.00           |
| 310-2001 | PRIME COAT (MC-30)                              | GAL  | \$3.00                   | 11,091.00       | \$33,273.00    | 8.00     | 11,099.00 | \$33,297.00    | \$24.00              |
| 341-2007 | D-GR HMA (QCQA)TY-A PG 70-22                    | TON  | \$56.00                  | 458.00          | \$25,648.00    | 124.00   | 582.00    | \$32,592.00    | \$6,944.00           |
| 341-2050 | D-GR HMA (QCQA)TY-C PG 70-22                    | TON  | \$50.00                  | 12,100.00       | \$605,000.00   | (1.00)   | 12,099.00 | \$604,950.00   | (\$50.00)            |
| 416-2032 | DRILL SHAFT (TRF SIG POLE)(36IN)                | LF   | \$210.00                 | 28.00           | \$5,880.00     | (28.00)  | 0.00      | \$0.00         | (\$5,880.00)         |
| 416-2032 | DRILL SHAFT (TRF SIG POLE)(48IN)                | LF   | \$310.00                 | 44.00           | \$13,640.00    | (44.00)  | 0.00      | \$0.00         | (\$13,640.00)        |
| 432-2002 | RIPRAP (CONC)(5 IN)                             | CY   | \$400.00                 | 36.00           | \$14,400.00    | 2.00     | 38.00     | \$15,200.00    | \$800.00             |
| 528-2004 | LANDSCAPE PAVERS                                | SY   | \$36.00                  | 2,847.00        | \$102,492.00   | (775.00) | 2,072.00  | \$74,592.00    | (\$27,900.00)        |
| 529-2002 | CONC CURB (TY II)                               | LF   | \$7.00                   | 11,878.00       | \$83,146.00    | (16.00)  | 11,862.00 | \$83,034.00    | (\$112.00)           |
| 529-WC01 | CONC CURB (TY II)(HAND FORM)                    | LF   | \$19.66                  | 0.00            | \$0.00         | 400.00   | 400.00    | \$7,864.00     | \$7,864.00           |
| 531-2010 | CURB RAMPS (TY 7)                               | EA   | \$1,200.00               | 2.00            | \$2,400.00     | 1.00     | 3.00      | \$3,600.00     | \$1,200.00           |
| 618-2018 | CONDT (PVD) (SCHD 40) (2")                      | LF   | \$7.50                   | 210.00          | \$1,575.00     | 144.00   | 354.00    | \$2,655.00     | \$1,080.00           |
| 618-2022 | CONDT (PVD) (SCHD 40) (3")                      | LF   | \$12.50                  | 105.00          | \$1,312.50     | 1,140.00 | 1,245.00  | \$15,562.50    | \$14,250.00          |
| 620-2009 | ELEC CONDR (NO. 6) BARE                         | LF   | \$1.30                   | 195.00          | \$253.50       | (195.00) | 0.00      | \$0.00         | (\$253.50)           |
| 620-2010 | ELEC CONDR (NO. 6) INSULATED                    | LF   | \$1.46                   | 390.00          | \$569.40       | (390.00) | 0.00      | \$0.00         | (\$569.40)           |
| 620-2011 | ELEC CONDR (NO. 8) BARE                         | LF   | \$1.10                   | 925.00          | \$1,017.50     | (925.00) | 0.00      | \$0.00         | (\$1,017.50)         |
| 620-2012 | ELEC CONDR (NO. 8) INSULATED                    | LF   | \$1.30                   | 760.00          | \$988.00       | (760.00) | 0.00      | \$0.00         | (\$988.00)           |
| 624-2014 | GROUND BOX TYPE D (120/240) 100 (NS) AL €SP (0) | EA   | \$750.00                 | 4.00            | \$3,000.00     | 2.00     | 6.00      | \$4,500.00     | \$1,500.00           |
| 628-2179 | ELEC SRV TY D 120/240 100 (NS)AL(E)SP)(0)       | EA   | \$5,000.00               | 1.00            | \$5,000.00     | (1.00)   | 0.00      | \$0.00         | (\$5,000.00)         |
| 636-2001 | ALUMINUM SIGNS (TY A)                           | SF   | \$11.40                  | 99.00           | \$1,128.60     | (1.00)   | 98.00     | \$1,117.20     | (\$11.40)            |
| 644-2001 | INS SM RD SN SUM & AM TY 10BWG(1) SA(P)         | EA   | \$210.00                 | 16.00           | \$3,360.00     | (1.00)   | 15.00     | \$3,150.00     | (\$210.00)           |
| 666-2047 | REFL PAV MRK TY I (W) 24"(SLD)(90MIL)           | LF   | \$5.50                   | 175.00          | \$962.50       | 101.00   | 276.00    | \$1,518.00     | \$555.50             |
| 666-2110 | REFL PAV MRK TY I (Y) 4" (SLD)(90 MIL)          | LF   | \$0.40                   | 14,523.00       | \$5,809.20     | (138.00) | 14,385.00 | \$5,754.00     | (\$55.20)            |
| 666-2131 | REFL PAV MRK TY I (Y) 24" (SLD) (90 MIL)        | LF   | \$5.78                   | 58.00           | \$335.24       | (43.00)  | 15.00     | \$86.70        | (\$248.54)           |
| 672-2015 | REFL PAV MRKR TY-A-A                            | EA   | \$5.00                   | 30.00           | \$150.00       | 8.00     | 38.00     | \$190.00       | \$40.00              |
|          | TOTAL   | S    |                          |                 | \$1,680,443.64 |          |           | \$1,666,928.80 | (\$13,514.84)        |

### WILLIAMSON COUNTY, TEXAS

| CHANGE ORDER NUMBER: 4 | Project # | 11WC906 |
|------------------------|-----------|---------|
|------------------------|-----------|---------|

TABLE B: Contract Items (Continued)

|           |  |          |             |          | + PREVIOUSLY<br>EVISED | ADD or (DEDUCT) |          | NEW            |                      |
|-----------|--|----------|-------------|----------|------------------------|-----------------|----------|----------------|----------------------|
| ITEM      | DESCRIPTION                                      | UNIT     | UNIT PRICE  | QUANTITY | ITEM COST              | QUANTITY        | QUANTITY | ITEM COST      | OVERRUN/<br>UNDERRUN |
| 680-2002  | INSTALL HWY TRF SIG (ISOLATED)                   | EA       | \$4,800.00  | 2.00     | \$9,600.00             | (1.00)          | 1.00     | \$4,800.00     | (\$4,800.00)         |
| 681-2001  | TEMPORARY TRAFFIC SIGNALS                        | EA       | \$34,624.28 | 0.00     | \$0.00                 | 1.00            | 1.00     | \$34,624.28    | \$34,624.28          |
| 682-2001  | BACK PLATE (12 IN) (3 SEC)                       | EA       | \$85.00     | 13.00    | \$1,105.00             | (10.00)         | 3.00     | \$255.00       | (\$850.00)           |
| 682-2003  | BACK PLATE (12 IN) (5 SEC)                       | EA       | \$100.00    | 4.00     | \$400.00               | (4.00)          | 0.00     | \$0.00         | (\$400.00)           |
|           | VEH SIG SEC (12 IN) LED (GRN ARW)                | EA       | \$220.00    | 9.00     | \$1,980.00             | (7.00)          | 2.00     |                | (\$1,540.00)         |
|           | VEH SIG SEC (12 IN) LED (GRN)                    | EA       | \$240.00    | 12.00    | \$2,880.00             | (11.00)         | 1.00     | \$240.00       | (\$2,640.00)         |
| 682-2024  | VEH SIG SEC (12 IN) LED (YEL ARW)                | EA       | \$240.00    | 9.00     | \$2,160.00             | (7.00)          | 2.00     | \$480.00       | (\$1,680.00)         |
| 682-2025  | VEH SIG SEC (12 IN) LED (YEL)                    | EA       | \$260.00    | 12.00    | \$3,120.00             | (11.00)         | 1.00     | \$260.00       | (\$2,860.00)         |
| 682-2026  | VEH SIG SEC (12 IN) LED (RED ARW)                | EA       | \$210.00    | 6.00     | \$1,260.00             | (3.00)          | 3.00     | \$630.00       | (\$630.00)           |
| 682-2027  | VEH SIG SEC (12 IN) LED (RED)                    | EA       | \$220.00    | 12.00    | \$2,640.00             | (11.00)         | 1.00     | \$220.00       | (\$2,420.00)         |
| 684-2031  | TRF SIG CBL (TY A) (14 AWG) (5 CONDR)            | LF       | \$1.20      | 2,715.00 | \$3,258.00             | (2,715.00)      | 0.00     | \$0.00         | (\$3,258.00)         |
| 684-2033  | TRF SIG CBL (TY A) (14 AWG) (7 CONDR)            | LF       | \$1.40      | 1,235.00 | \$1,729.00             | (1,235.00)      | 0.00     | \$0.00         | (\$1,729.00)         |
| 684-2080  | TRF SIG CBL (TY C) (14 AWG) (2 CONDR)            | LF       | \$1.00      | 1,140.00 | \$1,140.00             | (1,140.00)      | 0.00     | \$0.00         | (\$1,140.00)         |
| 686-2041  | INS TRF SIG PL AM (S) 1 ARM (40') LUM            | EA       | \$5,800.00  | 1.00     | \$5,800.00             | (1.00)          | 0.00     | \$0.00         | (\$5,800.00)         |
| 686-2047  | INS TRF SIG PL AM (S) 1 ARM (48')                | EA       | \$5,700.00  | 1.00     | \$5,700.00             | (1.00)          | 0.00     | \$0.00         | (\$5,700.00)         |
| 686-2055  | INS TRF SIG PL AM (S) 1 ARM (55')                | EA       | \$10,400.00 | 1.00     | \$10,400.00            | (1.00)          | 0.00     | \$0.00         | (\$10,400.00)        |
| 686-2065  | INS TRF SIG PL AM (S) 1 ARM (65') LUM            | EA       | \$12,000.00 | 1.00     | \$12,000.00            | (1.00)          | 0.00     | \$0.00         | (\$12,000.00)        |
| 6006-2001 | SPREAD SPECTRUM RADIO                            | EA       | \$2,400.00  | 1.00     | \$2,400.00             | (1.00)          | 0.00     | \$0.00         | (\$2,400.00)         |
| 6006-2005 | ANTENNA(UNI-DIRECTIONAL)                         | EA       | \$565.00    | 1.00     | \$565.00               | (1.00)          | 0.00     | \$0.00         | (\$565.00)           |
| 6266-2005 | VIVDS COMMUNICATION CABLE (COAXIAL)              | LF       | \$2.70      | 1,300.00 | \$3,510.00             | (1,300.00)      | 0.00     | \$0.00         | (\$3,510.00)         |
| 9004-000  | TEMP SIGNAL MAINTENANCE (FORCE ACCOUNT)          | DOL      | \$1.00      | 0.00     | \$0.00                 | 5,000.00        | 5,000.00 | \$5,000.00     | \$5,000.00           |
| 9005-000  | SIGNAL MATERIALS NOT USED                        | LS       | \$32,126.58 | 0.00     | \$0.00                 | 1.00            | 1.00     | \$32,126.58    | \$32,126.58          |
| 9006-000  | DELIVERY OF SIGNAL MATERIALS TO COUNTY           | LS       | \$750.00    | 0.00     | \$0.00                 | 1.00            | 1.00     | \$750.00       | \$750.00             |
| 9007-000  | REVISE LANDSCAPE PAVERS AT O'CONNOR (FORCE ACCT) | DOL      | \$1.00      | 0.00     | \$0.00                 | 1,493.03        | 1,493.03 | \$1,493.03     | \$1,493.03           |
|           |  |          |             |          |                        |                 |          |                |                      |
|           |  |          |             |          |                        |                 |          |                |                      |
|           |  |          |             |          |                        |                 |          |                |                      |
|           |  |          |             |          |                        |                 |          |                |                      |
|           |  |          |             |          |                        |                 |          |                |                      |
|           |  |          |             |          |                        |                 |          |                |                      |
|           |  |          |             |          |                        |                 |          |                |                      |
|           |  |          |             |          |                        |                 |          |                |                      |
|           |  |          |             |          | _                      |                 |          |                | _                    |
|           |  |          |             |          |                        |                 |          |                |                      |
|           | The "Totals" from Table B of the previ           | ous work | sheet:      |          | \$1,680,443.64         |                 |          | \$1,666,928.80 | (\$13,514.84)        |
|           | TOTALS   |          |             |          | \$1,752,090.64         |                 |          | \$1,748,247.69 | (\$3,842.95)         |

### CHANGE ORDER REASON(S) CODE CHART

| Design Error or Omission     | 1A. Incorrect PS&E  |
|------------------------------|---|
|                              | 1B. Other   |
|                              |   |
|                              |   |
| 2. Differing Site Conditions | 2A. Dispute resolution (expense caused by conditions and/or resulting delay)            |
| (unforeseeable)              | 2B. Unavailable material  |
|                              | 2C. New development (conditions changing after PS&E completed)                          |
|                              | 2D. Environmental remediation   |
|                              | 2E. Miscellaneous difference in site conditions (unforeseeable)(Item 9)                 |
|                              | 2F. Site conditions altered by an act of nature   |
|                              | 2G. Unadjusted utility (unforeseeable)  |
|                              | 2H. Unacquired Right-of-Way (unforeseeable)   |
|                              | 2I. Additional safety needs (unforeseeable)   |
|                              | 2J. Other   |
|                              |   |
| 3. County Convenience        | 3A. Dispute resolution (not resulting from error in plans or differing site conditions) |
|                              | 3B. Public relations improvement  |
|                              | 3C. Implementation of a Value Engineering finding                                       |
|                              | 3D. Achievement of an early project completion  |
|                              | 3E. Reduction of future maintenance   |
|                              | 3F. Additional work desired by the County   |
|                              | 3G. Compliance requirements of new laws and/or policies                                 |
|                              | 3H. Cost savings opportunity discovered during construction                             |
|                              | 3I. Implementation of improved technology or better process                             |
|                              | 3J. Price adjustment on finished work (price reduced in exchange for acceptance)        |
|                              | 3K. Addition of stock account or material supplied by state provision                   |
|                              | 3L. Revising safety work/measures desired by the County                                 |
|                              | 3M. Other   |
|                              |   |
| Third Party Accommodation    | 4A. Failure of a third party to meet commitment   |
|                              | 4B. Third party requested work  |
|                              | 4C. Compliance requirements of new laws and/or policies (impacting third party)         |
|                              | 4D. Other   |
|                              |   |
| Contractor Convenience       | 5A. Contractor exercises option to change the traffic control plan                      |
|                              | 5B. Contractor requested change in the sequence and/or method of work                   |
|                              | 5C. Payment for Partnering workshop   |
|                              | 5D. Additional safety work/measures desired by the contractor                           |
|                              | 5E. Other   |
| 6 Untimely POW/Utilities     | 6A. Right-of-Way not clear (third party responsibility for ROW)                         |
| 6. Untimely ROW/Utilities    |   |
|                              | Right-of-Way not clear (County responsibility for ROW)     Utilities not clear          |
|                              |   |
|                              | 6D. Other   |

### Williamson County Road Bond Program O'Connor Drive Extension Williamson County Project No. 11WC906

### Change Order No. 4

### **Reason for Change**

This Change Order provides for changes to the signal and roadway work at the intersection of O'Connor Drive and RM 620 to match the future widening of RM 620 and align the northbound lanes north and south of RM 620. It eliminates work items that were going to be constructed as part of the O'Connor Drive Extension Project and then removed or reconstructed with the RM 620 Improvements Project.

The permanent mast arm signals at O'Connor and RM 620 will be replaced with temporary strain wire signals. The original O'Connor plans called for installation of mast arm signals that would have been removed and replaced with the temporary signals for construction of the RM 620 widening. Signal materials that were already acquired by the Contractor will be purchased by the County for use on the RM 620 Improvements Project. A force account for signal maintenance is also being added to the Contract.

The alignment of the roadway and the width of the center median were changed so that the striping layout of the lanes south of RM 620 line up with the striping layout of the lanes north of RM 620. The center median width was reduced from 7.5 LF to back to back curbs in order to achieve the alignment, which also reduces the quantity of landscape pavers needed on the project. The embankment in this area had already been constructed in accordance with the original plans and will be removed and replaced with flex base where the center median is narrowed. This Change Order also provides a new Contract item for hand forming curb, since one side of the median curb cannot be slipformed because the curbs are back to back.

This Change Order also compensates the Contractor for changes the landscape paver design on O'Connor north of RM 620, at the request of the neighborhood association. A portion of the landscape pavers on O'Connor, north of RM 620, had already been installed before a representative from the Cat Hollow Neighborhood Association requested a change to the pattern. Costs to revise the paver pattern were tracked by force account.

Following is a summary of new items required for this Change Order:

| Item     | Description                  | Unit | Qty  |
|----------|------------------------------|------|------|
| 529-WC01 | CONC CURB (TY II)(HAND FORM) | LF   | 400  |
| 681-2001 | TEMPORARY TRAFFIC SIGNALS    | EA   | 1.00 |

| 9004-000 | TEMP SIGNAL MAINTENANCE (FORCE ACCOUNT)             | DOL | 5,000.00 |
|----------|---|-----|----------|
| 9005-000 | PAY FOR SIGNAL MATERIALS NOT USED                   | LS  | 1.00     |
| 9006-000 | DELIVERY OF SIGNAL MATERIALS TO COUNTY              | LS  | 1.00     |
| 9007-000 | REVISE LANDSCAPE PAVERS AT O'CONNOR (FORCE ACCOUNT) | DOL | 1,493.03 |

This Change Order results in a net decrease of \$3,842.95 to the Contract amount, for an adjusted Contract amount of \$5,903,420.29. The original Contract amount was \$5,742,529.92. As a result of this and all Change Orders to date, \$160,990.37 has been added to the Contract, resulting in a 2.8% net increase in the Contract cost. No additional days will be added to or deducted from the Contract as a result of this Change Order.

### **HNTB Corporation**

James Klotz, P.E.

klotz (3) associates WILLIAMSON 101 SOLIN WALE CONTESSAN BULDING V SUIT 220 BUSHIN, IV 1878 524 571 1 From 1875 328-571 From 17 From 80g. 51-512 ELINETS, B. CONNOR DRIVE EXTENSION O'CONNOR DRIVE EXTENSION INDEX OF SHEETS 2 HAT AND DRIVEWAYS
3 TEMP STORAL Cist Politi by 0510.003 NOTE:
1. 601H THE O'COMNOR DRIVE EXTENSION
AND THE INTERSECTION IMPROVENENT
PROJECT ARE INCLUDE IN THIS PLAN SET.
2. ONE PROJECT CONSTRUCTION MANUAL POWN
AND ONE WATER DOLUTION ABATEMENT
PLAN WRAPI JAS BEEN ISSUED THAT
INCLUDES BOTH PROJECTS. GENERAL
TITLE SHEET - O'CONNOR DRIVE & GREAT GAKS DRIVE INTERSECTION IMPROVEMENTS
235 PROJECT LANGUARTHIES
236 - 237 TYPICAL SECTIONS
238 - 237 TAPICAL SECTIONS
239 SUAMARY OF SMLL STORS
249 HORIZONTAL ALGOMENT GATA SIGNING AND STRIPLING STANDARDS
292 PH(1) - 03 ITXDS STANDARD
293 PH(16) - 04 ITXDS STANDARD
294 PH(16) - 04 ITXDS STANDARD
295 SUGGLEU-10 R ITXDS STANDARD
295 SUGGLEU-11 - 06 ITXDS STANDARD
297 SUGGLEU-12 - 06 ITXDS STANDARD
298 SUGGLEU-21 - 06 ITXDS STANDARD
299 PH(14) - 10 ITXDS STANDARD ROADWAY
Zei REDOVAL PLAN - O'CONDOR DR.
262 REDOVAL PLAN BERT OAKS DR.
263 ROADWAY PLAN MORPOTILE - O'CONDOR DR.
264 SALMAND PARTILE - O'CONDOR DR.
265 - 266 NAME DELAIL SHEET SIGNING AND STRIPING - O'CONNOR DR. 290 SIGNING AND STRIPING PLAN - GREAT OMES DR. 291 STORM WATER POLLUTION PREVENTION PLAN SW3P PLAN - O'CONNOR DR, SW3P PLAN - GREAT DAKS DR, TRAFFIC CONTROL 241 - 242 HAFFIC CONTROL PLAN - GREAT DAKS DN. 245 - 244 TRAFFIC CONTROL PLAN - O'CONNOR DR. TRAFFIC CONTROL STANDARDS
245 - 256 Be(01-1/21-07 transfar)
256 - 100 - EROSION CONTROL STANDARDS DRATINAGE STANDARDS SIGNALS
281
282
292
292
292 UTILITIES
279 UTILITY PLAN - O'CONNOR DR.
280 UTILITY PLAN - GREAT OAKS DR. CROSS SECTIONS
304 305 CROSS SECTIONS - 0"CONNOR DR. ROADWAY STANDARDS 267 CCCGIOA (TXXX STANDARD) 268 - 271 PED-05 (TXXX STANDARD) DRAINAGE LAYOUT 272 - 274 DRAINAGE LAYOUT 275 - 276 WATER OUALITY DETAILS EROSION CONTROL BORING LOGS 228 - 233 BORING LOGS SIGNING AND STRIPING STANDARDS
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I HIGK OF SHEETS

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13 - 12 GENERAL MOTES AND SPECIFICATIONS

14 HORIZONIA ALIBORIAL SEGUES

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60 - 22 RIDGE LAVOUTS

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86 - 87 ABUTHENT IP HAM AND ELEVATION

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108 ABUTHENT TRAFFIC CONTROL STANDARDS 21 - 32 BE-07 33 TOP12-29-10 34 TOP12-29-10 DRAINAGE DETAILS

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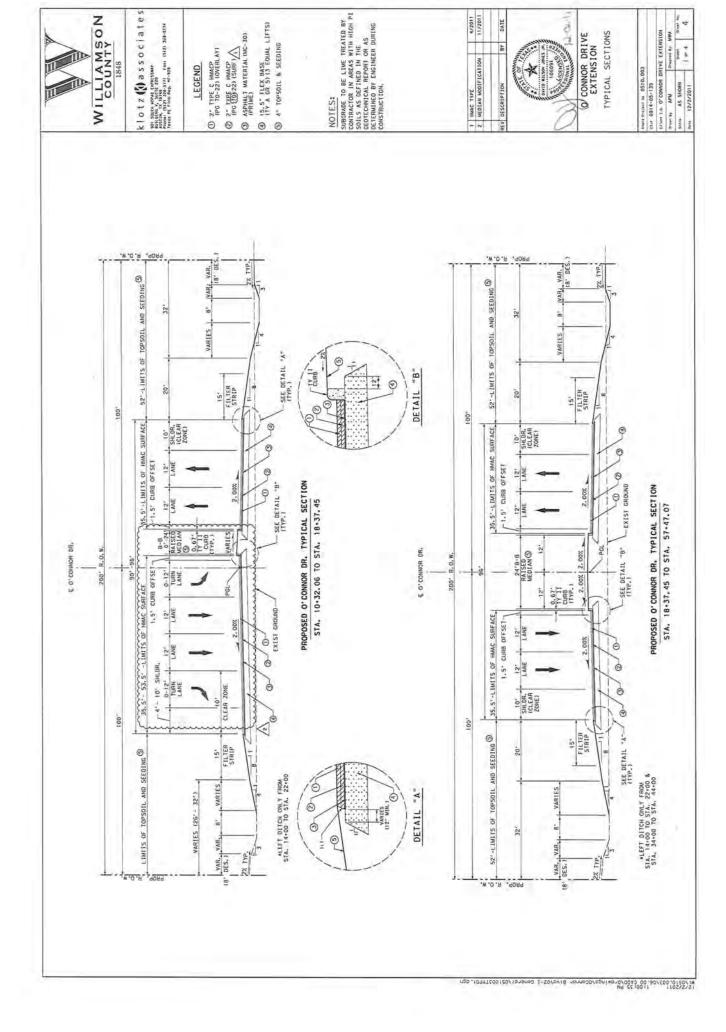
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equipment supplied by the District or location by Engineer. Install the supplied Iroffic signal 3.Install the equipment su designated by Engineer. controller and cabinet.

4. Connect of I field wiring to the controller assembly. The bistrict will case in decident action to be connected, and will also program the boarter look leach a case or to be connected, and will also program the boartel ter for approximation the video detection, hash up the controller. Pick up the signal condition and other equipment, and turn on the controller. Pick up the signal colored training the project of the project of the controller. Pick up the signal condition and a representative from the abstract signal shop or location designated by the Rapiece. Howe a qualified learnings and a representative from the aborted ter supplier LT Confronter supplied according to the project site to place the training the training and the project in the project in the project in the project of the controller of the controller.

5.Notify the Diarrics Signal Mointenance Office at 1512) 832-7061 and week before beginning any work invalving traffic signals.

Opeca his integrity of and/or the function of the existing traffic stands in a particular decorate the existing stands in a particular decorate the existing function of the proposed refine stands and the construction of the proposed refine stands and are manifested to the construction of the proposed refine stands and are stands and are stands of the construction of the proposed refined to the construction of the proposed refined to the construction of the const

The figure of the proposed storm with the existing traffic of the proposed storm with the existing fortifier signal estimates the control that the existent will be the control to the existent will be the control to the existent will be the control to the contro

E Adjust existing signal heads so that they are centered on the oppropriation of the the proposed geometry is constructed, eccordance with the plans. After the completion of the entire cipyol institution in (including of neity) of thicky (30), day lets per do begins, county inspector to neity day on stop approximate 19313-706 invertors begins, white it performs the best determined by the Department that the flat which go and controller countined by the Department that the flat which and of controller controller or perceive in the adjustment that the flat with good of the controller controller and the controller of the project have been me, the Department will relieve the Contractor of any other reasonabilities for the operation

It lies qualified personnel to report to an editoree on Irrabile call is conficient to the Irrability of I

supplier. 2. Cornect, till fleid wirting to the controller basembly. The bistrict will basis in determining their detector bob lead on bob les and by till basis in determining their detector bob lead on bob les and by program the video detection, broad on the both in the operation, and will be better the both in the object of the controller better the quality is and other equipment, and the both in controller better better the both in broad or begreated to the broad or begreated by the broad

3. Notify the District Stonal Maintenance Office of (512) 632-7051 and week before beginning any work involving fraffic signals. Marine Marine

ITEM 681 - TEMPORARY TRAFFIC SIGNALS

Take control and be respondible for all Signals within the Project limits as shown on the plant, to commende what the signal system or readedy copporty is offected, or within 30 days offer the stort of work, whichever comes first, Centact the District Signal Shop Supervice, or least the blanks in advance, at (SI2) 832-7061 to

The acops of this control will Include modifications of existing along asymmetric reduired to support the traffic control plan of following local loca:

110

Signal Location(s): RM 62a of 0'Connor Boulevard

1712/2017 9:28-55 AM #:/0510.003/06.00 CA00/Drawings/OConnor Blvd/02-I General/0510030EN/NDTE09.don

Provide and maintain tractic signal operation of all signalized intereactions within no project limit's during oil process of contruction winther existing, stepportry, or final. Provide all items for temporary traffic signal including Video Impoint of the contraction system (VIVIS) againment, ilmost poles, apon wite, conductors and signal heads. Now a qualified technician and a proper existing the controller supported in the provisoiler supplier on the project signal process.

The controller adulate assembly, the luding all occasaories and components, and all video blacking (1970) control and processors and processors are the processor of the process

Operation and maintenance of the temporary slynd includes repole of Contractor-waptied equipment, provision of telephone number to the Blasted for trouble colls, additional fulling, and the generation of neglectic stages in limiting and the generation project. Coordinated things skiring all phases of the project. Coordinated things will be provided by the State.

Video equipment will meet all the requirements of item 6266. Provide signal partial and an infinity brown for all construction signals making and thing brown for all construction sequencing or the Contractor's construction sequencing or the Contractor's construction sequencing if of ferent from who its shown in the place. These plans to the exist in a space of the construction and will be submitted for approval and will provide operations equivolent to the existing signals.

Provide the Department this name and 24-haur telephone number of a person reaponable for emergency minimization apportions. Use administration of the personnel for respond to and diagnose all trable soils administration to signal equipment. Response fins to report any experience of the signal equipment. Response fins to report any revolute colls must be less that a young, when appropriate reports within 24 hours. Place o ladge to the personnel of colls must be less than the controller and have a respect to the trable and the personnel of colls from the controller and have a respect of colls from the arriver lay in the conflict maniform without approach.

Relicate and modify signal heads as required by project phosing of other project which as directed by the Department. Relication of signal heads for a phose choice will be done during the same day, consider subsidiary to the pertinent (terms.

Bo reaposible for video defection abuques de reguired by broiest prosing or other project work as directed by the Department, prosider abusidary to the perfinent items.

Mointain on 18-foot minimum vertical alearance for all construction signals at all times.

Wate Tried measurements for tracted tinder poles in accoparation with the Engineer before construction to ensure the above claderonce height from the highest point of the redderoy surface. Times poles provided will nee to it the readeronce for I constituents of a I constituent of the surface in addition, block the stage heads a minimum of 40 feet ond a marking of feet from the stage heads a minimum of 150 feet from the stage into the stage into place of supplemental nederals a layed head. Observation of the poles a supplemental nederals a layed head a layed head a layed head and the poles, considering oil observation from the script life and received and elevalidate and alternation.

All permonent stors mounted on the traffic storal wires, traffic storal looks, or traffic storal mast will be traffished and invate land by the Contractor. The cost of the stors, produce and erecting the stors will be subsidiary to the pertinent items.

Be responsible for furnishing all other materials, tools, and labor required to maintain the signoin in this project in accordance with the plans and specifications. All ther materials provided by the Contractor will be new undepreciated stock.

ITEM 6266 - VIDEO IMACINO VEHICLE DETECTION SYSTEM (VIVOS) Install the VIVOS onescas onto the most consist with the attachment medionisms provided with the coneca system. Place the traffic signal and its (IY M. Garondarter) (16 Mill) and the VIVOS communication about 16 month insular and separate runs from each VIVOS communication delication. Consider the costs in Sacarated with the above work subsidiary to the partient frame.

Alm one adjust the comerca, install the aboles and AlMS addits into the controller aboles work to be the the controller and controller any other excessory work to be the title traffic algoral into apprehien.

Pravide the traffic signal cable and coaxial cable above and any incidentals necessary to install them.

Provide a Video Processor System (VPS) that one provide up to this yashe 132 detector outputs to the convolue form up to bight Bill convidence outputs (EVMPL). Boute the detector outputs through the Bus interface that (IUI) or approved product, which replaces the functions of the Bill. Tield of view for each CVMPL and locavide a minimum of thirty-two (32) virtual detection somes for velocity eventual conventions.

Pravide 6 agneras for this project, instiding one !!! spare somera.

Provide a set-up system. Lood required set-up softwore onto out of the District Stome Stone's notebook computers and provide oil to munescery if creating. Computers shall not be provided by the Controllor as part oil the set-up system.

Provide and Install 211 achies necessary to provide consister VIDOS operation. Provide a minimum of 10 cables to direct connect the operation. Provide a minim Phose red and green load switch outputs from up to sixteen 116) that so in RMM TS2 yes 2 controller and the provided os inputs to thanke or with financial denotes extend/del by limits functions. Well for use with financial denotes extend/del by limits functions. The CVMPL shall be dole to condition the delector outputs and detection somes based on the state of the associated phase number and oldered.

The seriel communication port on the front or the VPU shoul be a DB-9 RS-222 cornector. Supply a packaged into will operate with inchase XP RS-222 cornector. Supply a packaged into will be observed with inchase XP and AT and provide the functional to a mode. The software resident in the VPU and the berson locapuler shoul be capable of tronsmitting out reset VMD at Information maked for zone set up, monitoring vehicle detection by viewing flashing detection and up the provided of the software set well very concluded yelden formation of control of the provided of the software set up, which is detection to be set of the provided of the software of the software set up, which is the vPU. Reacts communication devices known coders, the VPU. Reacts communication devices known to consider the vPU. It is not the Reacts communication devices known to code.

the VPU operational software shall be shared internally in flash missery and be appaile of being updated without the removal and manay devices.

Provide aurge protection in the controller cobinet protecting the comerce video and power inputs/outputs. All surge protection shall dincall mounted.

disist with Install the VIVDS detection zones as directed. Have que personnel an alte of the time of the signal lurn-on to the installation of detection zones.

If the comera locations shown in the plans do not allow for proper sign of the proposed attacking zones, relocate the comercis on near and as directed. This lobbe over more is cost will not be pold separately, but is subsidiary to this (tem.

The video output from the C/VPU shall be in polar or black/white active detection zones avariald on full motion video.

# Their 1922 - Vehrötze And Prédies Anthan's roand-nemos

Install signal lead attachments so the virting to each poses from the most orm or signal pole through the attachment hereard to the signal pole through the attachment hereards to the signal pleas. I speak attachment is a formal mean. Stopped cobie or witting is not permitted, unless otherwise afreation. Ensure the signal heads are made of oluminum and are hooded and sovers

Enth signal head will be one way with the proper number of sections shown on the plans. Each head color will be bright yellow [Federal Yellow #1358 of Federal Standard 295). The Inside of the visate will have a flat black finish.

Provide pedeatrion signal tead assemblies, which hove a flush "agg-crated" cont. 2 patent vider for oll longs, and a pre-place reflector assembly for incorporated forms only. installed fraffia signal heads within the project will have bookplay

Provide touvers, which have five (5) worse with a block finish on insi-surfaces when reading within the project. Easten a hardware allo secrept, securely, with "F or smaller neath size to the front face of ea-lawer to prevent entry by birds.

Wount signal heads tavel and plumb as directed.

Raplace, at Confroator's expense, all burned but or defective longs for period of weeks from the date of the folial furn on. At the end man of every period, the Engineer will relieve the Contractor of a maintenance of this portion of the signal system.

Use the four point mounting system (TY A) for signal heads, except cases of skewed or vertical heads when (TY B) will be used.

Place LED's at the proper angle with the ground. The warding flop' or the transport indicates the proper lipid of indicates which the slown heel by done the their products of the product of the product



|        |          | 2     | ш                  | NS.                                 |                          |                | 100              | CNS             | 6         | 7         |
|--------|----------|-------|--------------------|-------------------------------------|--------------------------|----------------|------------------|-----------------|-----------|-----------|
| A ZIJ  |          |       | CONNOR DRIVE       | FICATIO                             | 2                        |                | DRIVE EXTENSION  | Descript Sr. C. | Sheet     | 9 5 6     |
| Churer | The same | 20 CM | O'CONNOR<br>EXTENS | GENERAL NOTES<br>AND SPECIFICATIONS | ton fragest to 0510, 003 | 11 0914-05-139 | t.s. O'CONSOR DI | S3r .           | AS SHOWIE | 7/12/2011 |
| HEV DE |          |       |                    |                                     | Steen Sp                 | 0              | 0.000            | fires by        | 500,0     | 4100      |

### 11EM 684 - TRAFFIC SIGNAL CABLES

Leave of least 2 feet for each poble run in each pull box and leave of least 2 feet in each steet pate in raddition to the required length for each separate acolo. Provide on extra 5 feet of each contactor from intensing in the scortculer cobinet. Ensure conductors are continuous without solice from terminal point to terminal point or os directed. Do not use wire runts.

Provide a separate multi-cenductor signal cable (14 ABC) inside pedantal parts and mark-ram signal pates from the terminal strip to each signal misad as shown an time plans.

## ITEM 686 - TRAFFIC SIGNAL POLE ASSEMBLIES (STEEL)

Install air wings on all most arms of 30 feet and over. Consider the coal for the provision and installation of air wings as subsidiary to the various bid liems found within this project.

Provide double nuts on top and battom of the base plate as snown on the standards.

When tuninaires are to be installed on most arm poles, provide a separate terminal strip in the signal pale access compariment. The ferminal strip shall be a 4-dirauit Buchanariyee 1045M, Kuuka-Type 985-GP-4 CU, or equivolent. Provide signet pale assembiles as shown on plans. Luminaire large and the institution of the arms and larges are considered subsidiary, to the perfitted if feets.

Provide a 10-and time-delay fuse for traffic signal poles and which junicalizes and a fine to be finatelliad. Place the fuse in the fuse block indicated sithin note 44 found on State standard MA-D7.

# ITEM 688 - PEDESTRIAN DETECTORS AND VEHICLE LOOP DETECTORS

Pedestrien push buttons will be mounted at a height of 3-6° (427 obove the sidewolk or landing and will be of the type that have permonent-type signs within the detector unit ( $\theta^*$  x 12° sign & push button station on Signal poles and  $\theta^*$  x  $T^*$  sign & bush button station on Pedestrian Poles, which explains their purpose and indicates which prosswalk signal is

Repair or replace any push button detector, which proves to be Toaperable for a period of 4 weeks for the Thillio Itaah turn an date, At the and of this A-seek belied, the Engineer Will relieve the Contractor of any maintenance of this portion of the signal system. octuated.

Pedestrian Push buttons will be of substantial tomper proof construction. The push button will be AM and 72.3 complicit. The push button will have a poster coaled aluminam bazel with stabilities sitel cattorior. The push button will use it will use the poster coaled colored with stabilities as teel cattorior. The push button will use it is a substantial coaled for 20 X 10, operations. The push button will provide visuol and outbeface to the button will be functional in laring conditions. All featering norderer will be stiplities siteli.

the oudible feedback will be soluty a confirmation chirp, be able to turned on and off, and not conflict with any ADA issues.

### ITEM 6007 - REMOVING TRAFFIC SIGNALS

Provide for the repoval and storage of the existing signal once the rebuil is signal is in operation. Himmore bandomed forusations are the Austral District in 2004 Special Specification. Here's to be returned to the Austral District Traffic Signal Shop (1901 North III SS) Includes signal section assembly from Polo D. Contact the Signal Shop Supervisor at 1515 SS2-7061 to make programms for delivery of aclivaged thems. 7/12/2011 9:26:30 MW./0510.003/06:00 CADD/OPER/NDS/DCORNOR BIVE/02-1 General/0510630EWD1E05A.dcn

The list of material below is far the Confractor's Information only, it is the responsibility of the Confractor's towerly all items and apartities listed below.

### LIST OF WATERIAL/LABOR SUBSIDIARY TO ITEM 681

| Description                           | EMIT | Quantity. |
|---------------------------------------|------|-----------|
| 40 FT TIVBER POLE (CLASS 2)           | EA   | 2         |
| 3/8" ZINC-COATED STRANDED STEEL CABLE | 10   | 560       |
| 1/4" ZDIC-COATED STRANDED STELL CABLE | 1.5  | 360       |
| GROUND ANCHORS                        | EA   | 4         |
| YELLOW PLASTIC GUY GUARD              | EA   | *         |
| VIVDS CAVERA ASSEMBLIES               | EA   | 9         |
| VIVDS PROCESSOR CARDS 14 CHANNELS     | EA   | 2         |
| VIVOS EXTENSION MODULES (4 CHAIMEL)   | F.3  |           |
| VIVDS VIDEO VONITORS                  | £.8  | -         |
| VIVOS COMM. CABLE (COAX)              | 47   | 1,310     |
| VIVOS 116 ARGI 13 CONDRI              | 17   | 1,310     |
| CONDT (PVC) (SCHO 40) (3%) 3          | 17   | 10        |
| ELEC CONDR (NO. 81 (BANE)             | 47   | 10        |
| BACK PCATE, 112 (14) 13 SEC).         | EA   | 1         |
| BACK PLATE 112 1141 (4 SEC)           | EA   | 64        |
| DACK PLATE (12 IN) (5 SEC)            | EA   | 24        |
| VEH SIG SEC (12 IV) LED (GRN ARK)     | EA   |           |
| VEH STO SEC (12 IN) LED (GRN)         | EA   | 30        |
| VEH STG SEC (12" DID LED LYEL ARM)    | EA   | 2         |
| VEH SIG SEC (12 IN) LED (YEL)         | EA   | -11       |
| VEH SIG SEC (12 INI LED (RED)         | EA   | 11        |
| TRE 51G CBL (TY A) 114 AND! (5 CO2DR) | 17   | 1,090     |
| THE SIG CBL ITY AS 114 ANGS IT COLDIN | 115  | 480       |
| RELOCATE SWALL STENS                  | 4.3  | 9         |



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| 4/2011   | 1/2011          |   | DATE       | 2/0        |
|----------|-----------------|---|------------|------------|
| -        |                 | H | 113        | A STREET A |
| SIGNAL   | SIGNAL          |   |            | ***        |
| CHANGES/ | CHANGES/ SIGNAL |   | UPTION &   |            |
| NOTE     | 3100            |   | DESCRIPTIO | and        |
| r        | N               |   | REV        | 90         |

O' CONNOR DRIVE EXTENSION

GENERAL NOTES AND SPECIFICATIONS

|                                |                  | 10%                                 | SN         | Pert An  | 1.2A      |
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| 03                             |                  | CHESS ELD. O'COMPOR BRIVE EXTENSION | CHORES CUS | tred.    | 5 W 5A    |
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| ( tota area)                   | 160 -153         | Citeria sign                        | 38 444 4   | Tions.   | trees 7   |



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|                | 53    | 200      | RIGHT<br>WA<br>MARK                                | Ä           | 4                          | 2                              | 2                              | 2                                   | 4                              | 2                              | 0                    | 16                                      |            |
|----------------|-------|----------|--|-------------|----------------------------|--------------------------------|--------------------------------|-------------------------------------|--------------------------------|--------------------------------|----------------------|---|------------|
|                | 531   | 2010     | CURB<br>RAMPS<br>(TY 7)                            | Z EA >      |                            | <b>?</b> \$ 0                  | × 0 ×                          | \$                                  | (\$ o <)                       | × 0 ×                          | >> ○ >               | \$\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ |            |
|                | 530   | 2010     | DRIVEWAYS<br>(CONC)                                | SY          | 0                          | 0                              | 0                              | 0                                   | 0                              | 905                            | 0                    | 905                                     | ~          |
|                | 259   | 2006     | CONC<br>CURB<br>(MONO)<br>(TY II)                  | 5           | 0                          | 5 0                            | 0                              | 0                                   | ) 0                            | 1,642                          | 407                  | 2,049                                   | 7          |
|                | 529   | 2004     | CONC<br>CURB &<br>GUTTER<br>(TY II)                | 5           | 0                          | 0                              | 0                              | 0                                   | 41                             | 0 1                            | 0                    | 41                                      |            |
|                | 529   | 2002     | CONC<br>CURB<br>(TY 11)                            | LF 4        | (0/1,1                     | 2,400                          | 2,400                          | 2,400                               | 7,093 √                        | 27 192                         | ( 829 )              | ( 298 11                                | 4          |
|                | 528   | 2004     | LANDSCAPE<br>PAVERS                                | SY          | 0                          |                                | 0                              | 0                                   | 851                            | 763                            | 168                  | (1,782                                  | 1          |
| LIES           | 502   | 2001     | BARRICADES,<br>SIGNS AND<br>TRAFFIC<br>HANDLING    | Y OW        | ~                          | \<br>\                         |                                | ~                                   | }                              | ~                              | ^                    | 12 }                                    | 7          |
| ROADWAY QUANTI | 500   | 2001     | MOBILIZATION                                       | LS.         |                            |                                |                                |                                     |                                |                                |                      | -                                       |            |
| SUMMARY OF     | 432 ( | 2040     | RIPRAP<br>(MOW STRIP)<br>(5 IN)                    | ζ           | 0                          | 0                              | 0                              | 0                                   | 0                              | 80                             | 8                    | 16.0                                    | 1          |
|                | 7 432 | > 2002 < | RIPRAP (CONC) (5 IN)                               | \<br>\<br>\ | 2                          | > 0 )                          | 0 3                            | ~ o ≺                               | > 0 }                          | > 0 )                          | S 0 3                | 2                                       | 4          |
|                | 341   | 2050     | D-GR HMA<br>(QCQA)<br>TY-C<br>PG70-22              | NOT         | 1,516                      | 2,092                          | 2,092                          | 2,092                               | 2,467                          | 740                            | 768                  | 11,768)                                 |            |
|                | 310   | 2001     | PRIME<br>COAT<br>(MC-30)                           | GAL         | 1,379)                     | 268'1                          | 1,893 \$                       | 1,893)                              | 2,131 \                        | 994 کے                         | 869                  | 10,552                                  |            |
|                | 247   | 2366     | FL BS<br>(CMP IN PLC)<br>(TY A GR 5)<br>(FNAL POS) | Ċ           | 4,096                      | 7,725                          | 4,725                          | 4,724                               | 5, 395                         | 1,647                          | 1, 664               | 526,97                                  |            |
|                | 132   | 2003     | EMBANKMENT<br>(FINAL)<br>(ORD COMP)<br>(TY B)      | 200         | 2,430                      | 8,810                          | 6,495                          | 15, 769                             | 19,190                         | 4,380                          | 3, 759               | £ 8 09 0                                |            |
|                | 110   | 2001     | EXCAVATION (RDWY)                                  | CY (4)      | ((2,636)                   | 7,074                          | 7,460                          | 3,558                               | 2,015                          | 931                            | 3,099                | [ . ¢6,773                              | \ <u>\</u> |
|                | 100   | 2002     | PREP   | STA         | 6.7                        | 12.0                           | 12.0                           | 12.0                                | 12.0                           | 12.0                           | 7.57                 | 72, 4                                   | \<br>\\\z  |
|                |       |          |  | STA TO STA  | BEGINNING TO STA, 17+00,00 | STA, 17+00.00 TO STA, 29+00.00 | STA, 29+00.00 TO STA, 41+00.00 | STA, 41+00.00 TO STA, 53+00.00 12.0 | STA. 53+00.00 TO STA. 65+00.00 | STA, 65+00,00 TO STA, 77+00,00 | STA, 77+00,00 TO END | PROJECT TOTALS                          |            |

ROADWAY QUANTITIES

## ROADWAY QUANTITIES (CONT.)

|                                |                                       |                               | ns   | SUMMARY OF ROADWAY QUANTITIES                      | QUANTITIES                    |   |   |                                       |
|--------------------------------|---------------------------------------|-------------------------------|--|--|-------------------------------|---|---|---------------------------------------|
|                                | 540                                   | 540                           | 540  | 544  | 069                           | 069   | 069   | 069                                   |
|                                | 2001                                  | 2002                          | 2011   | 2006   | 2006                          | 2024  | 2038  | 2051                                  |
|                                | MTL<br>W-BEAM<br>GD FEN<br>(TIM POST) | TERMINAL<br>ANCHOR<br>SECTION | MTL BEAM<br>GD FEN<br>TRANSITION<br>(THRIE-BEAM) | GDRAIL END<br>TRT(INST)<br>(WOOD POST)<br>(TY III) | REMOVAL OF<br>GROUND<br>BOXES | REMOVAL OF REMOVAL OF CONTROL GROUND SIGNAL HEAD CABINET BOXES ASSM (GND MNT) | REMOVAL OF<br>CONTROL<br>CABINET<br>(GND MNT) | REMOVAL OF<br>SIGNAL POLE<br>ASSEMBLY |
| STA TO STA                     | -F                                    | EA                            | EA   | EA   | EA                            | EA  | EA  | EA                                    |
| BEGINNING TO STA, 17+00,00     | 0                                     | 0                             | 0  | 0  | 9                             | 7   | -   | 4                                     |
| STA, 17+00,00 TO STA, 29+00,00 | 0                                     | 0                             | 0  | 0  | 0                             | 0   | 0   | 0                                     |
| STA. 29+00.00 TO STA. 41+00.00 | 0                                     | 0                             | 0  | 0  | 0                             | 0   | 0   | 0                                     |
| STA. 41+00.00 TO STA. 53+00.00 | 0                                     | 0                             | 0  | 0  | 0                             | 0   | 0   | 0                                     |
| STA, 53+00,00 TO STA, 65+00,00 | 0                                     | 0                             | 0  | 0  | 0                             | 0   | 0   | 0                                     |
| STA. 65+00.00 TO STA. 77+00.00 | 20                                    | -                             | -  | -  | 0                             | 0   | 0   | 0                                     |
| STA, 77+00,00 TO END           | 20                                    | -                             | -  | _  | 0                             | 0   | 0   | 0                                     |
| PROJECT TOTALS                 | 100                                   | 2                             | 2  | 2  | 9                             | 7   | -   | 4                                     |

## SIGNING AND STRIPING QUANTITIES

|  |      |      |   |  |                          |           | <          | 4                          |                                | <                              | £                    | <              | 4   | 1   |   |
|--|------|------|---|--|--------------------------|-----------|------------|----------------------------|--------------------------------|--------------------------------|----------------------|----------------|---|-----|---|
|  | 999  | 2110 | 0 100                                   | WRK TY I (Y)   | 4" (SLD)                 | (090MIL)  | L.         | (4,090)                    | (4,600)                        | 4,285 <                        | (1,410)              | (14,385)       |   |     | 1 |
|  | 999  | 2095 | 0 | MRK TY I (W)   | (WORD)                   | (090MIL)  | EA         | 9                          | 0                              | 4000                           | -                    | \(\)           |   | <   | 1 |
|  | 999  | 2053 | 0                                       | WRK TY I OWN   | (ARROW)                  | (090MIL)  | EA         | 9                          | 0                              | 40000                          |                      | =              |   |     |   |
|  | 999  | 2047 | 240                                     | MRK TY I (W)   | 24" (SLD)                | (090MIL)  | 1          | (16)                       | }                              | 0                              | 0                    | (161           | }   | 4   | ] |
|  | 999  | 2041 | 240                                     | MRK TY I (W)   | 12" (SLD)                | (090MIL)  | L.         |                            | 0                              | 0                              | 0                    |                |   |     |   |
| S  | 999  | 2035 | 0                                       | MRK TY I (W) MRK T | 8 (SLD)                  | (090MIL)  | 4          | 906                        | 0                              | 09900                          | 150                  | 1,736 }        | \<br>\<br>\<br>\<br>\<br>\                  | /2/ | ] |
| SUMMARY OF SIGNING & STRIPING QUANTITIES | 999  | 2011 | 0000                                    | MRK TY I (W)   | 4" (SLD)                 | (090MIL)  | 4          | 3, 735                     | 4,600                          | 8                              | 1,550                | 14,335         |   |     |   |
| ING & STRIPII                            | 999  | 2002 | 0                                       | MRK TY I (W)   | 4" (BRK)                 | (090MIL)  | L.         | 926                        | 1,150                          | 1050                           | 387                  | 3,568          |   |     |   |
| MARY OF SIGN                             | 658  | 2316 | T SNI                                   | ASSM   | _                        | (FLX) GND | EA         | 2                          | 2                              | 3000                           | ٥                    | ۲ ۲            | 8   |     |   |
| SUMN                                     | 658  | 2260 | TNCT                                    | ASSM (D -  | ZS (MS                   | (TYC) GF1 | EA         | 0                          | 0                              | Ξ                              | 6                    | 20             |   |     |   |
|  | 658  | 2007 | TOWL                                    | ASSM   | (D-SW) TY A              | (FLX) GND | EA         | 6                          | 15                             | 6                              | -                    | 34             | D BARRICADE:                                |     |   |
|  | 644* | 2020 | O NO ONL                                | SN SUPRAM  | TY FRP (2)               | UB (P)    | EA         | 0                          | 0                              | 0                              | 4                    | 4              | <ul> <li>FOR DEAD END BARRICADES</li> </ul> |     |   |
|  | 644  | 2006 | O NO ONI                                | SN SUPRAM  | TY 10 BWG(1)             | SA (U)    | EA         | -                          | 0                              | 0                              | 0                    | -              |   |     |   |
|  | 644  | 2004 | O NO ONI                                | SN SUPRAM  |                          | SA(T)     | EA         | 2                          | 0                              | 2                              | 0                    | 4              |   |     |   |
|  | 644  | 2001 | 00 M                                    | SN SUPSAM  | TY 10 BWG(1) TY 10 BWG(1 | SA (P)    | EA         | 5                          | -                              | 9                              | 2                    | 14             |   |     |   |
|  |      |      |   |  |                          |           | STA TO STA | BEGINNING TO STA. 29*00.00 | STA. 29+00.00 TO STA. 52+00.00 | STA, 52+00,00 TO STA, 75+00,00 | STA, 75+00,00 TO END | PROJECT TOTALS |   |     |   |

| ADDENDUM #1 | 12-10-10 | 2 | UPDATED QUANTITIES | 4/2011 | 4 | MEDIA MODITICATION | 11/2011 | REV DESCRIPTION | BY DATE

# SIGNING AND STRIPING QUANTITIES (CONT.)

|  |             |      |           |  |               |             |   |            |                            |                                |                                |                      |                | 1 |
|--|-------------|------|-----------|--|---------------|-------------|---|------------|----------------------------|--------------------------------|--------------------------------|----------------------|----------------|---|
|  | 5445        | 2001 | DEAD END  | ROADWAY  | BARRICADE     | (TY 111)    |   | -F         | 0                          | 0                              | 72                             | 0                    | 72             |   |
|  | 677         | 2001 | EL IM EXT | PAV MRK  | ŏ             | ( 4 )       |   | - FF       | 740                        | 0                              | 0                              | 0                    | 740            |   |
|  | 672         | 2017 | 240       | אביר דאי   | MKKK          |             |   | EA         | 92                         | 58                             | 89                             | ( '27 )              | 7 592 }        |   |
|  | 672         | 2015 |           | Ĕ  | MARK          | 4-4 I I I   | { | > EA >     | 5 5 5                      | ^ ° ^                          | ~ ° ~                          | \ 0 \                | \ \ 26 \ \     |   |
| /2/                                      | 672         | 2012 | ~         | ž  | MHKH          | -<br>-<br>- | ~ | EA         | 01                         | 0                              | 0                              | (3) 0                | 01             |   |
| QUANTITIES                               | المماووومي  | 2185 | REF PAV   | MRK TY 11 (Y   | \$ 24" (SLD)  | (090MIL)    | _ | I.F.       |                            | 7                              | 0                              | ( , 51 , , , )       | ( 51           |   |
| SUMMARY OF SIGNING & STRIPING QUANTITIES | 999         | 2178 | REF PAV   | MRK TY II (Y)  | 4" (SLD)      | (090MIL)    |   | LF         | 4,090                      | (4,600)                        | (4,285)/2                      | (1,410               | 14,385         |   |
| ARY OF SIGNIN                            | 999         | 2157 | REFL PAV  | MRK TY II (W)  | 24" (SLD)     | (090MIL)    |   | LF         | 161                        |                                | 0                              | 0                    | 161            |   |
| SUMM                                     | 999         | 2155 | REFL PAV  | MRK TY II (W)  | 12" (SLD)     | (090MIL)    |   | LF         | l (e )                     | 0                              | 0                              | 0                    |                |   |
|  | 999         | 2153 | REFL PAV  | TY I (Y))MRK TY II (W) MRK TY II (Y)\$(MRK TY II (Y) | 8 (SLD)       | (090MIL)    |   | - F        | 906                        | 0                              | 680                            | 150.                 | Λ ( 987 I      |   |
|  | 999         | 2145 | REF PAV   | MRK TY II (W)  | 4" (SLD)      | (090MIL)    |   | -F         | 3, 735                     | 4,600                          | 4,450                          | 1,550                | 14,335         |   |
|  | 999         | 2142 | REF PAV   | MRK TY II (W)  | 4" (BRK)      | (090MIL)    |   | - LF       | 956                        | 1,150                          | 10500                          | 387                  | 3,568          |   |
|  | المر وووسيا | 2131 | REFL PAV  | MRK TY I (Y)   | . 24" (SLD) } | (090MIL)    |   | · LF. A    | ( 0 )4                     | <                              | 200 /3                         | (31.)                | V( 3i · )      | - |
| <  | (3)         | لم   |           | هـ.  | _             |             |   | STA TO STA | BEGINNING TO STA. 29+00.00 | STA, 29+00,00 TO STA, 52+00,00 | STA, 52+00,00 TO STA, 75+00,00 | STA. 75+00.00 TO END | PROJECT TOTALS |   |

| Care Froger to 0510,003 | Care Froger to 0510,003 | Care 0514-05-139 | Care to 070000 BRIVE EXTENSION | Care to 070000 British | Care to 07000 British | Ca

O'CONNOR DRIVE EXTENSION SUMMARY OF ROADWAY QUANTITIES



WILLIAMSON

KIOTZ (() a 5 5 0 C i a 1 e 5 81 com ext. pressave Active. 2 pressave Active. 2 pressave press (c) 2 pressave press (c) 2 pressave

SET (TY 1) (S· 6 FT) (HW- 8 FT) (4: () (C) SET (TY 1) (S- 5 FT) (HW- 5 FT) (4:1) (C) 467 SET (TY 11 (5- 6 FT) (HW+ 7 FT) (3: (1) (C) 467 SET (TY 1) (\$- 5 FT) (MY- 8 FT) (31 () (C) 467 \* LOCATED AT INTERSECTION RM 620 AND O'CONNOR DR. \$65 - 5 FT) \$65 - 5 FT) \$60 - 7 FT) \$31 D CC) SUMMARY OF DRAINAGE QUANTITIES
462 464 467
2012 2005 2042 RC PIPE (CL 1111) (24 IN) 462 462 2007 2012 CONC 60X CONC 80X CULV CULV CULV (S T X 5 F) 134 240 374 (STONE PROTECTION)
(DRY) 432 (CONC) 432 EXCAVATION PROTECTION PROJECT STATION 21-40.54 42-64,95 58-14.00 PROJECT TOTALS

DRAINAGE QUANTITIES

# EROSION CONTROL QUANTITIES

~

| 150    | 150   150   150   164   164   164   166   168   506    |                           |                      |      |          |        |                                    | S                                     | SUMMARY OF ERC | SUMMARY OF EROSION CONTROL O | DUMMTITIES                                 |      |  |                                 |  |                                   |
|--|--|---------------------------|----------------------|------|----------|--------|------------------------------------|---------------------------------------|----------------|------------------------------|--|------|--|---------------------------------|--|-----------------------------------|
| 2001   2002   2003   2009   2011   2005   2000   2001   2005   2001   2005   2005   2005   2005   2006   2006   2016      | 2001   2002   2003   2009   2011   2035   2002   2001   2002   2002   2003      |                           | 103                  | 150  | 160      | 164    | 164                                | 164                                   | 166            | 168                          | 905  | 505  | 506  | 506                             | 906  | 506                               |
| Furnishing Broadcast   Seedicast Seedicast   Seedica   | Furnishing Broadcast   Broad   |                           | 1002 3               | 2002 | 2003     | 2009   | 2011                               | 2035                                  | 2002           | 2001                         | 2001                                       | 2002 | 2003                                       |                                 | 2016   | 5019                              |
| EA HIR SY SY SY LOW WG LF LF LF LF SY SY CON HIR SY SY LOW WG LF LF LF LF SY CON HID HOLD SY CON HID HOLD SY CON HID HOLD SY LAW | EA HIR SY  |                           | DISPOSAL<br>OF WATER | ă    |          |        | BROADCAST<br>SEED (TEMP)<br>(COOL) | DRILL<br>SEEDING<br>(PERM)<br>(RURAL) | FERTILIZER     |                              | ROCK FTLTER<br>DAMS<br>(INSTALL)<br>(TY 1) | 0 4  | ROCK FILTER<br>DAMS<br>LINSTALL)<br>LIY 3) | ROCK FILTER<br>DAMS<br>(REMOVE) | CONSTRUCTION<br>EXITS<br>(INSTALL)<br>(TY !) | CONSTRUCTION<br>EXITS<br>TREMOVE: |
| 0 330 (25,622   12,726   12,726   25,622   15,527   25,030   100   401   100   401   100   401   100   401   100   401   | 1 339   25   25   25   25   25   25   25   2   | STA TO STA                | EA S                 | HR   | SY       | SY     | SY                                 | SY                                    | TON            | V 5W                         | L. LF.                                     | 17   | 1.5  | AFrance                         | AS   | Sycon                             |
| 1 339 32/387 16,7347 16,734 16,734 16,735 15,135 15 | 1   3.99   32.745   71.7374   71.7374   72.745   | GINNING TO STA, 29.00,00  | 0                    | 30   | (24, 852 | 12,426 | 12,426                             | 24,852                                | 1,55           | 746 // 3/                    | ( 50 )                                     | 40   | 40   | 001                             | 401  | 401                               |
| $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$   | \[ \begin{pmatrix} 0 & \frac{7}{2} & \frac{25}{2} & \frac{19}{2} & \frac{19}{2} & \frac{19}{2} & \frac{1}{2} & \fr | 29.00.00 TO STA. 52-00.00 | 1 3                  | 39   | 32,487   | 16,244 | 16,244                             | 32, 487                               | 2.63           | 516                          | 2 0 3                                      | .09  | 2000                                       | 08 7                            | 0  | 0 }                               |
| ( 0 ) 7 (5.62) 2.614 2.614 3.623 3.627 5.25 ( 3.527) 2.0 } 20 } 20 } 20 } 20 } 20 } 20 } 20  | \[ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \   | 52+00,00 TO STA. 75+00,00 | 0                    | 25   | 21,111   | 10,556 | 10,556                             | 21,111                                | 1, 32          | 633                          | 7 0 3                                      | 80   | 04 5                                       | 150                             | 0  | 0 5                               |
| 1 1 1 100 (65.00 (1.30 1.30 1.30 1.30 1.30 1.30 1.30 1.30  |  | STA. 75-00.00 TO END      | 0                    | 1    | (5,627   | 2,614  | 2,814                              | 5, 627                                | 0.35           | 169                          | 20 \$                                      | 20   | 0 4  | 40                              | 0  | 0                                 |
| $\forall$  | riangle  | PROJECT TOTALS            | 1                    | 100  | (84,077  | 42,039 | 42,039                             | 84.077                                | 5.25           | 2,522)A                      | C 00 7                                     | 200  | 130  | 370                             | 401  | 401                               |
|  |  |                           | 1                    | 6    |          |        |                                    |                                       |                | (3)                          | V  | _    |  | - Commonwell                    |  | <                                 |

# EROSION CONTROL QUANTITIES (CONT.)

. - FOR CONTRACTOR'S INFORMATION ONLY.

|                                | 506                                  | 905        | 1018       | XXXX                           |
|--------------------------------|--------------------------------------|------------|------------|--------------------------------|
|                                | 2026                                 | 2034       | 2001       | xxxx }                         |
|                                | LOADER WORK<br>(ERSN & SEDM<br>CONT) | TEMP SEDAT | PROTECTION | HAZARDOUS<br>MATERIAL<br>TRAPS |
| STA TO STA                     | Ŧ                                    | 11         | EA         | EA                             |
| BEGINNING TO STA, 29+00.00     | ÷                                    | 2,912      | 7          | 0 5                            |
| STA. 29+00.00 TO STA. 52+00.00 | 40                                   | 2,370      | 0          | 0                              |
| STA, 52.00,00 TO STA, 75.00,00 |                                      | 2,380      | 12         | -                              |
| STA. 75+00.00 TO END           | -                                    | F 70B      | 14         | 2                              |
| PROJECT TOTALS                 | 16                                   | 9.370      | 33         | 3                              |

### BRIDGE QUANTITIES

| -    | UPDATED     | UPDATED GUANTITIES  |    | 47.5011 |
|------|-------------|---------------------|----|---------|
| N    | INTER. A    | INTER, MODIFICATION |    | 1102/1  |
| 7    | WEDTAN A    | WODIFICATION        | П  | 11/2011 |
| NEV. | DESCRIPTION | 100                 | BY | DATE    |

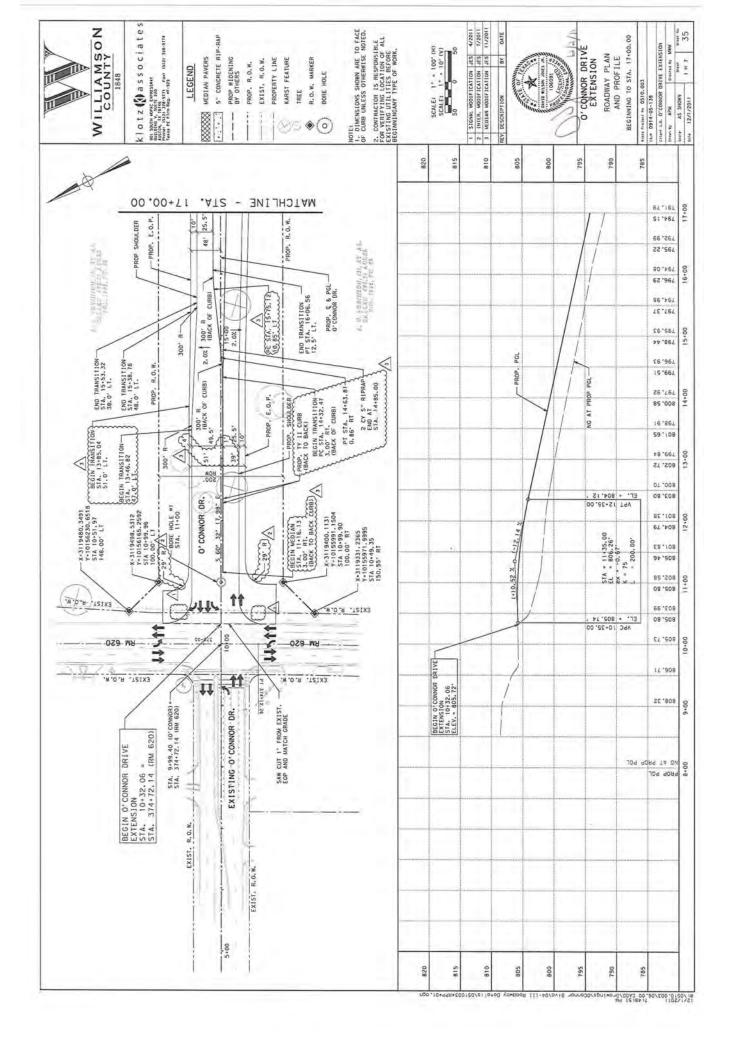
| ON OF | DRIVE | ROADWA       |
|-------|-------|--------------|
| S     | 1/2   | SUMMARY OF B |

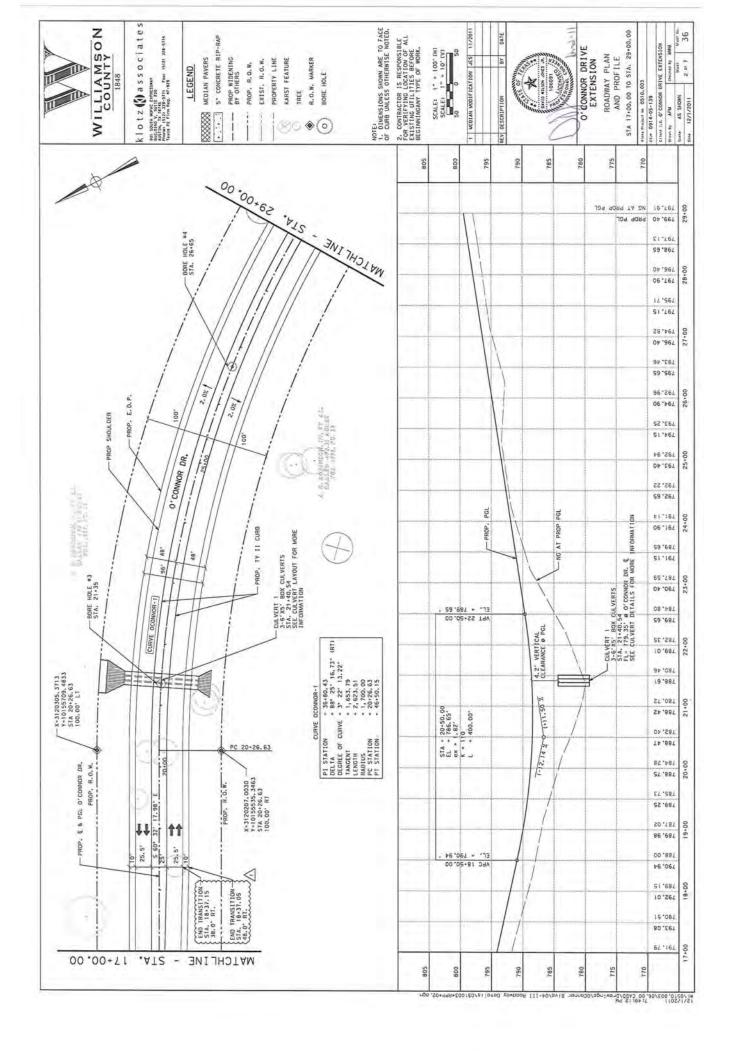
| THE THE CONTROL DRIVE EXTENSION  |                        |
|--|------------------------|
| CHAIN LA. O'CONNOR DRIVE EXTENSION   | 15-139                 |
| District St.   | CONNOR DRIVE EXTENSION |
| Direction of the control of the cont | Decent II              |
| CONTRACT PART  | SHOWN Wast Seat        |

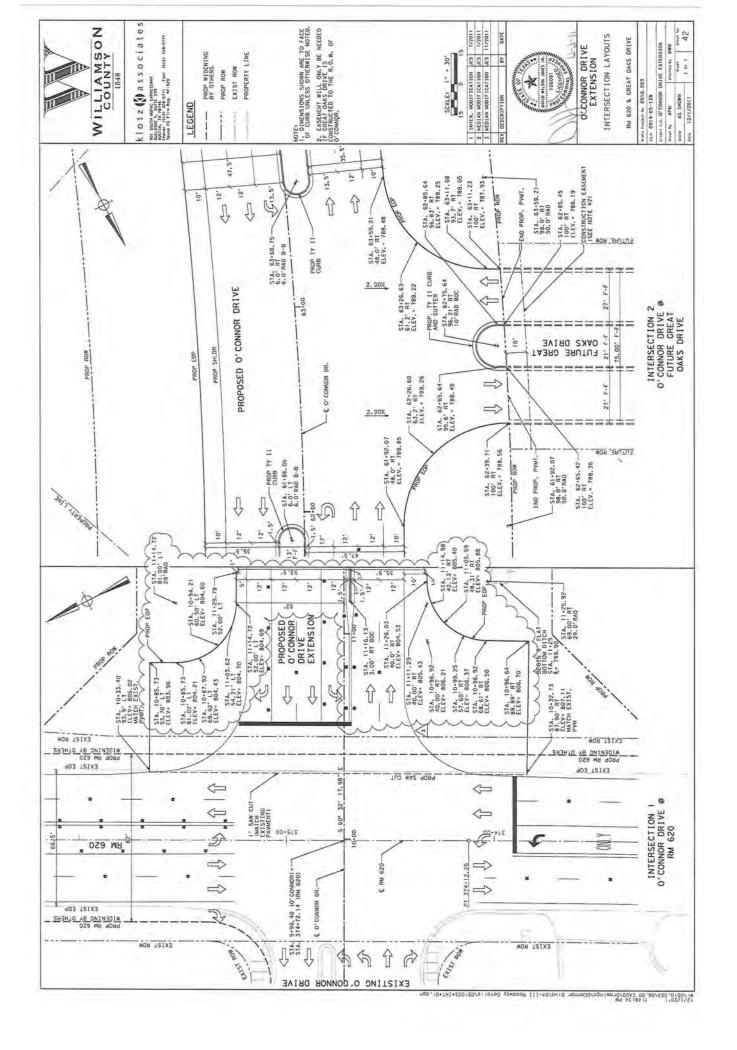
klotz (() associates
solome contratave
solome co 1990 C - High Intensity - C
1990 D - Primorite - 0
1990 E - Florgescent Primoric - E
1990 E - Florgescent P
199 GNS 11/2/11 Sign supports shall be located as above on the Johns, except that the Engineer coy shirt the Sign supports, which design guidelines, where necessary to secure or nore designations to covil a confict with white, builting, buildings, briess otherwise Engineer will receive and its sloke and he Engineer will refer by all a sign apport locations. DATE Intekness (IYPE A) 0.080 SUMMARY S I WEDLAN MODIFICATION JES BA 7-02 Min. ALUMINUM SIGN BLANKS SMALL Less than 7.5 7.5 to 15 Greater than 15 REV DESCRIPTION Square Ft. 2 36 X 36 WATCH FOR ICE ON BRIDGE Z-614 (d) VS (1) DMB01 133 X 79-1M 61. 0 (T) A2 (T) DWB0 36 X 36 → GREAT GAKS DRIVE 1-10 81 (4) AZ (1) DWBO ! WATCH FOR ICE ON BRIDGE Z-51M 13 X 3 24 X 30 MEDIAN VEER RIGHT T-48 (4) A2 (1) DWB0 ( ATNO L 9E X 0E 83-2F 94 MEDIAN VEER RIGHT × S4 X 20 1-48 (9) A2 (1) DWB0 1 1-10 SI 24 X 18 SYLAG SHAD TABRD -(T) A2 (1) DWB0 ( M16-2 (500) (4) A2 (1) DWBO 1 X 2 95 X 35 SONE DYON TI-FIW 10BMC(1)2V(b) X 20 X 20 14 0001 85-IM 15 X 24 X 18 M1E-S(1000) (4) A2 (1) DW801 X 36 X 36 SONE ENDS 135 11 11-518 (4) A2 (1) DWBO! 131 10 X 2 20 X 20 7Z-1M 3 24 X 24 BANCH ROAD 620 49-IW 108MC(1) 24 (b) 2 S1 X 12 120 1-2W 1.08MC(1) 2V (b) 20 X 20 MI-ZR THOIR WALT TRUM BUAJ THOIR 10BMC(1)2V(b) X 2 20 X 20 H2-5H COLAZ COLDINADI (d) VS (1) DMBO ( × 2 St X 30 SPEED LIMIT 40 1-28 RAV 8-ER (T) A2 (1) DWEO! × JOHTA JOHTA JOHTA CONTA 3 02 X 29 S1 X 12 A1-8M RANCH ROAD 620 × S¢ X S¢ 89-IW 21 X \$2 TSAB W3-5 2 2 X SI X 12 71-9W RANCH ROAD 620 99-IM (U) A2 (1) DWEO 1 X R3-8 VAR M3-4 24 X 12 1S3M (1) A2 (1) DWB01 JONEY TONEY TONEY 63 X 20 051 V aqyT vorank and2-navinu-Au bnd2-navinu-Bu and2-navinu-Bu tid6-qiiz-R2 and2-sps#\*AW P \* Prefob. 1EX1 or SEX1 \* 2 of Ext. Prefob. 7 or 1Ext. 2 of Extruded Wind Becam. 1 = Prefob. "1 Ext. 1:12 \*4ft Wing End. 3 or 1 = Prefob. "1 Ext. \* Extruded Aium. Signs BACKGROUND 280 = 200 800 108MC = 10 8MC 1M1 = 1D1U-M011 ALUMINUM TYPE G ALUMINUM TYPE A DIMENSIONS PLAN SHEET NO. SICH TEXT NOMENCLATURE STON "ON RICH moi tong isso gni truow Post Type SUMMARY OF SMALL SIGNS SM RD SGN ASSM TY XXXXX (X) XX (X-XXXX)

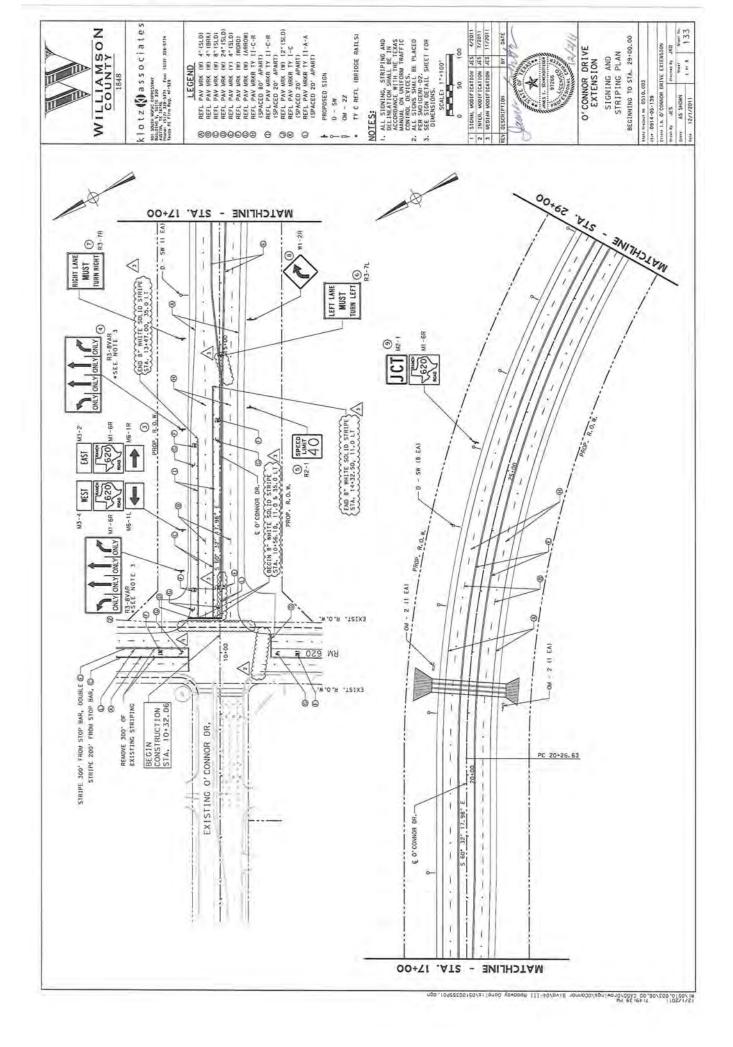


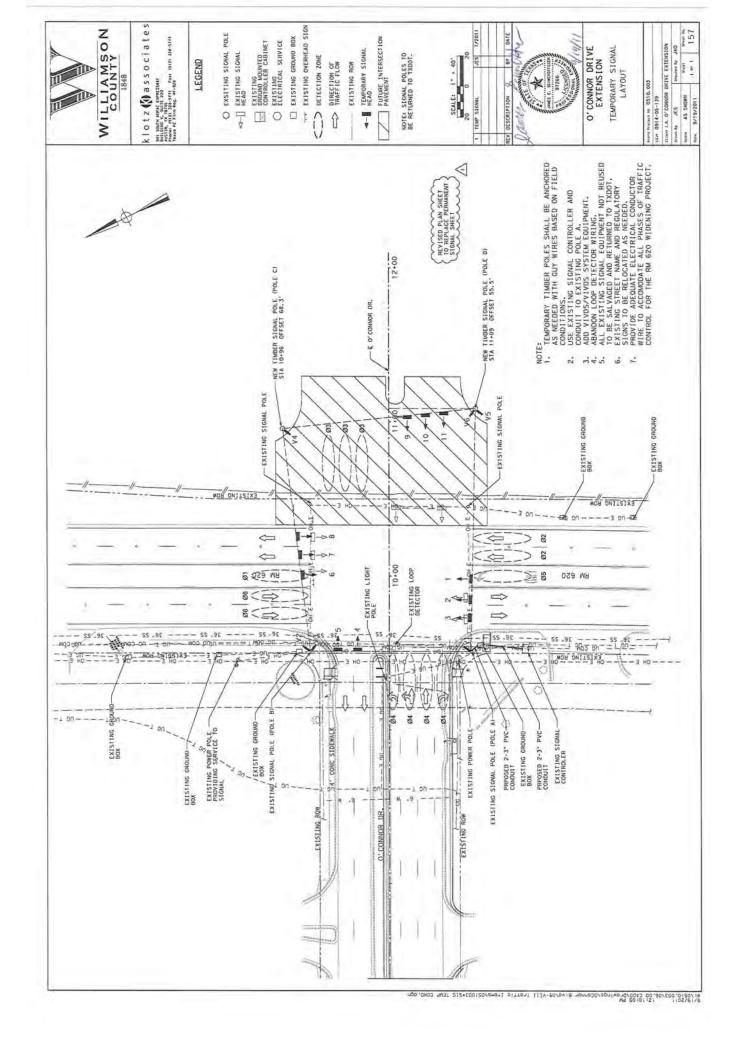
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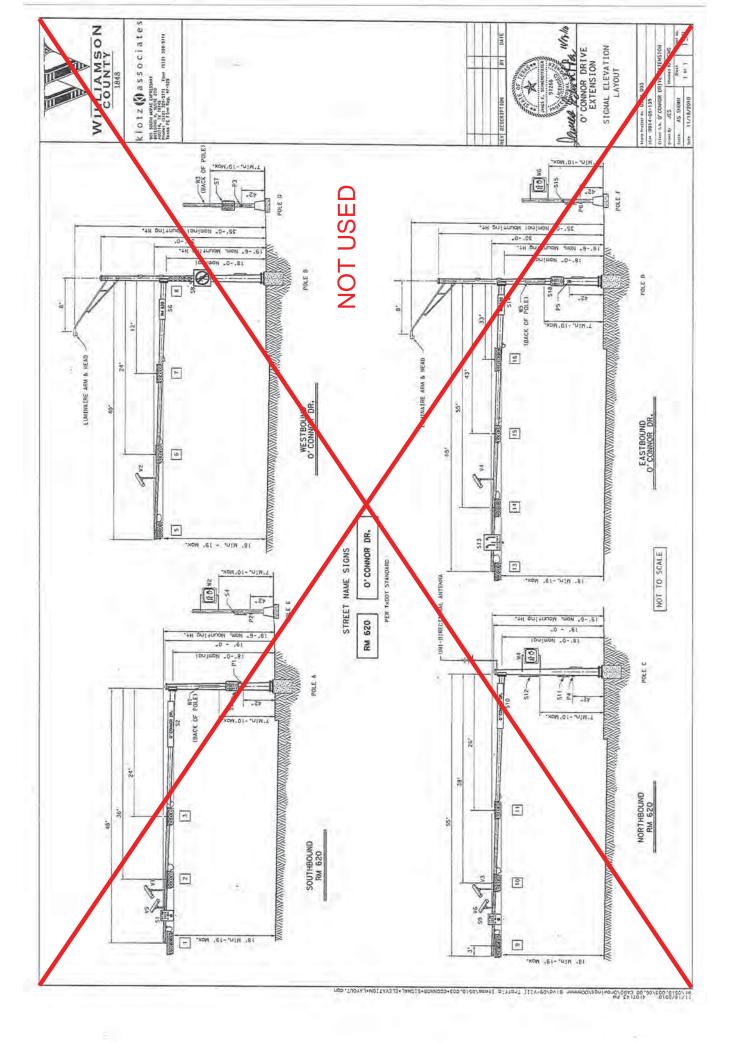














CABLE 6 HEAD 7 & B TO CNTRL 5 CNDR.

CABLES HEAD 6 TO CAIRL 7 CADR.

HEAD 9, 10 & 11 TO CNTRL 5 CNDR.

CABLE 3 HEAD 4 & 5 TO CNTRL

CABLE2 HEAD2&3 TO CNTRL

CABLE 1 HEAD 1 TO CNTRL

WIRE

SH7,8 Y

SH4,5Y PHASE Ø3 5 CNDR.

SH2,3Y PHASE Ø6

SH 1 V PHASE Ø6

BLACK WHITE

7 CNDR

SIGNAL COMMON SH7, 8R PHASE Ø2 SH7, 8G

SHE, 10, 11Y
PHASE Ø4
SIGNAL
COMMON
SH9, 10, 11R
PHASE Ø4
SH 11G
SH 0, 14G

SIGNAL COMMON SH4,5R PHASE Ø3 SH5 G SH4 G, G ARW PHASE Ø3 SPARE

SIGNAL COMMON SH1R PHASE 26 SH1G PHASE 68

RED

GREEN

SH6Y PHASE Ø2 SIGNAL COMMON SH6R PHASE Ø2

SFARE

SH6G PHASE 02 SHBYARW

PHASE ØS SH 6 G ARW PHASE ØS SPARE

SHLY ARW PHASE Ø1 SH 1G ARW PHASE Ø1

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ORANGE

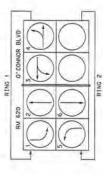
klotz (1) associates

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| 10 M                                  |
| SOLVE STATE                           |
| 23545                                 |
|                                       |
|                                       |





ORIENTATION VIEW



### SIGNAL HEADS



RED YEL YEL GRN ORN 

NED YEL ORN CRH

5 SECTION SIGNAL W/BACKPLATE 4 SECTION SIGNAL W/BACKPLATE HEADS: 1, 6

tens regier to 6910,003 to 7010,003 to 7010,003 to 7000,003 filtre in 0.700,003 filtre in 1500 f 2 TEMP SIGNAL WOOLF ICATION JES 4/2011 7/12/19 ELECTRICAL SCHEDULE O'CONNOR DRIVE EXTENSION REV DESCRIPTION Janes



CABLE 6 HEAD 7 & B TO CNTRL 5 CNDR.

CABLES HEAD 6 TO CAIRL 7 CADR.

HEAD 9, 10 & 11 TO CNTRL 5 CNDR.

CABLE 3 HEAD 4 & 5 TO CNTRL

CABLE2 HEAD2&3 TO CNTRL

CABLE 1 HEAD 1 TO CNTRL

WIRE

SH7,8 Y

SH4,5Y PHASE Ø3 5 CNDR.

SH2,3Y PHASE Ø6

SH 1 V PHASE Ø6

BLACK WHITE

7 CNDR

SIGNAL COMMON SH7, 8R PHASE Ø2 SH7, 8G

SHE, 10, 11Y
PHASE Ø4
SIGNAL
COMMON
SH9, 10, 11R
PHASE Ø4
SH 11G
SH 0, 14G

SIGNAL COMMON SH4,5R PHASE Ø3 SH5 G SH4 G, G ARW PHASE Ø3 SPARE

SIGNAL COMMON SH1R PHASE 26 SH1G PHASE 68

RED

GREEN

SH6Y PHASE Ø2 SIGNAL COMMON SH6R PHASE Ø2

SFARE

SH6G PHASE 02 SHBYARW

PHASE ØS SH 6 G ARW PHASE ØS SPARE

SHLY ARW PHASE Ø1 SH 1G ARW PHASE Ø1

WHITE /

BLUE

ORANGE

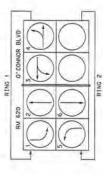
klotz (1) associates

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| SOLVE STATE                           |
| 23545                                 |
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ORIENTATION VIEW



### SIGNAL HEADS



RED YEL YEL GRN ORN 

NED YEL ORN CRH

5 SECTION SIGNAL W/BACKPLATE 4 SECTION SIGNAL W/BACKPLATE HEADS: 1, 6

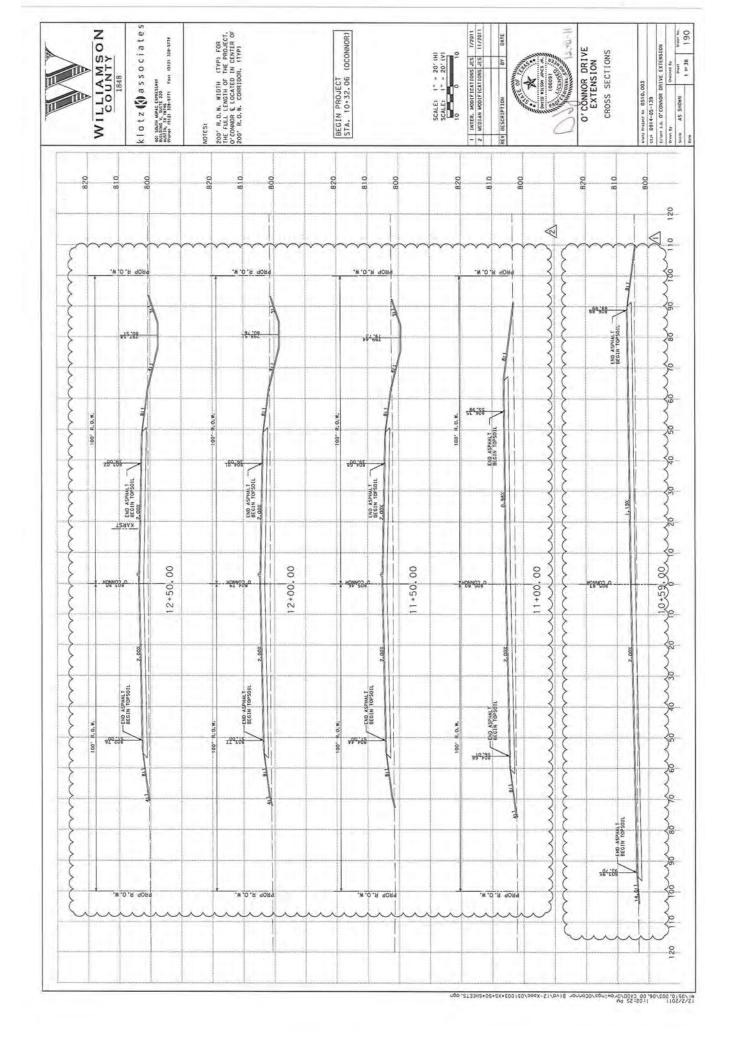
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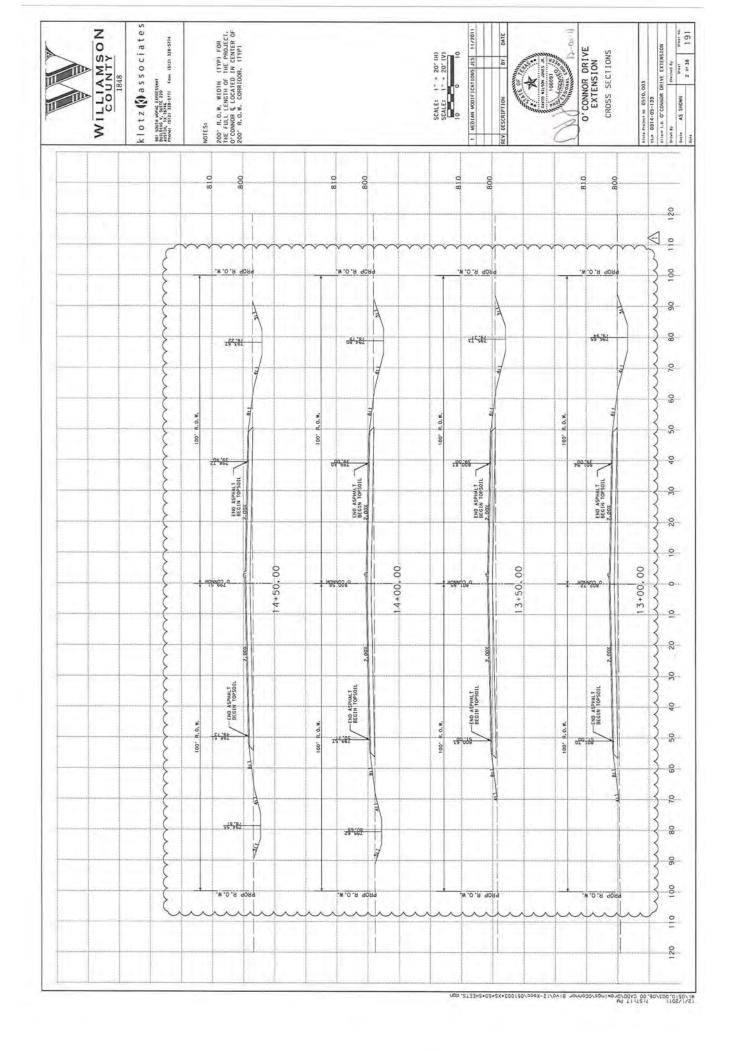
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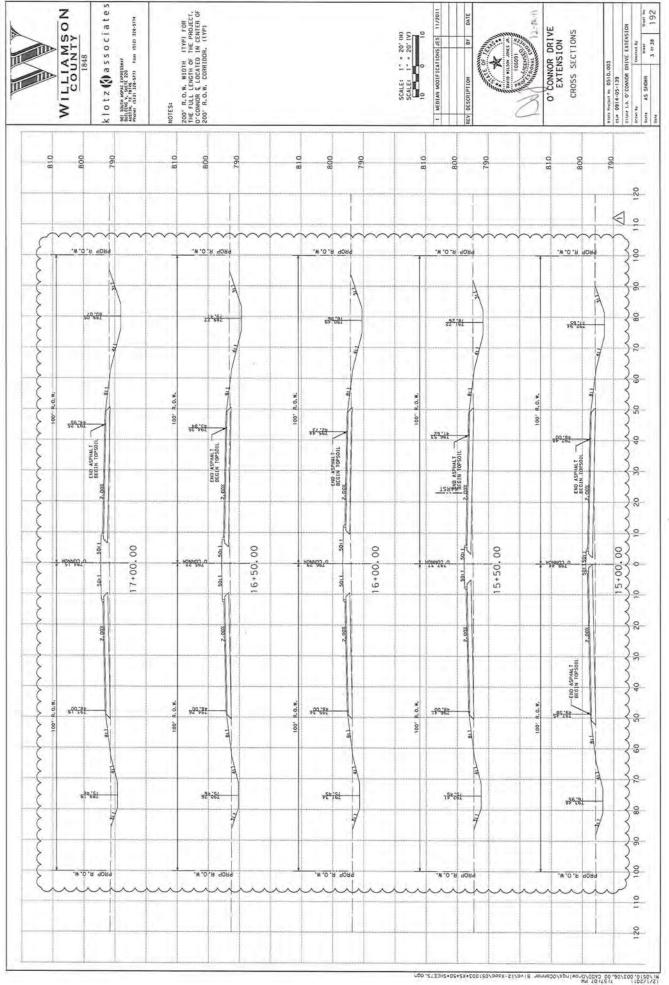
Cities in the O'CONDOB BRIVE EXTENSION

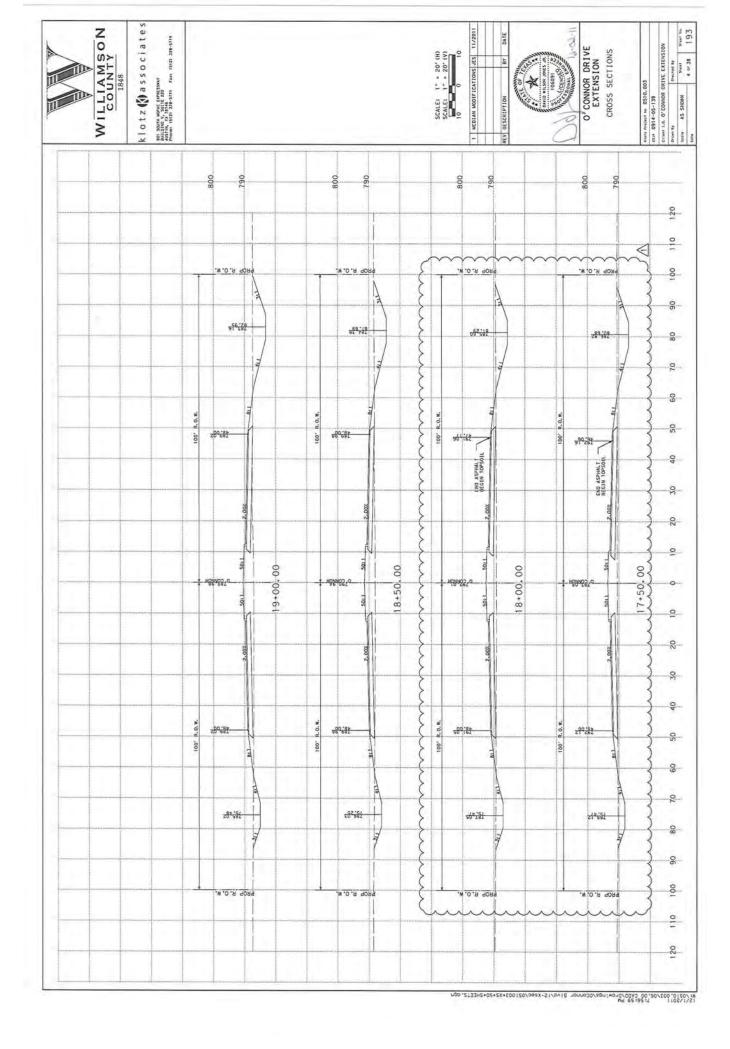
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159-1 1 159 2 TEMP SIGNAL WOOLF ICATION JES 4/2011 7/12/19 ELECTRICAL SCHEDULE O'CONNOR DRIVE EXTENSION REV DESCRIPTION Janes









### DAN WILLIAMS COMPANY

Contractors – Heavy/Highway PO Box 80069, Austin, TX 78708 Telephone (512) 320-1410 Fax (512) 320-1413



August 25, 2011

Mr. Clayton Weber HNTB 14 Galloping Road Round Rock, Texas 78681

RE:

Project: 11WC906 CSJ: 0914-05-139

Williamson County

Dear Sir,

Dan Williams Company is submitting a revised cost proposal with backup for a change order due to the revisions to utilize temporary signals at O'Connor Drive Extension for the project referenced above. Also, included are the material charges which Williamson County will take ownership of for items of work being deleted due to the future RM620 widening project that would remove and change the traffic signals and configuration. The total costs being submitted is attached from our subcontractor and is listed below.

- 1. Temporary Signals = \$32,975.00 + 6% = \$34,953.50
- 2. Materials to Williamson County = \$32,126.58 + 6% = \$34,054.17
- 3. Delivery Charge for Materials = \$750.00 + 6% = \$795.00

Please feel free to call at (512) 320-1410 should there be any questions concerning this correspondence.

Respectfully

Steve Cardwell Project Manager

Dan Williams Company

1. 32975.50 × 1.05 = \$34624.28

2. 30596.75×1.05 = \$32126.56

3. 750.00

Spees only allow one 5% markup.



RO. Box 760 Cedar Park. Texas 78630-0760 (512) 258-1025 Fra (612) 258-1026

8/16/2011

Project:

11WC906

County:

Williamson

Highway:

O'Connor Drive @ Great Oaks Drive

G Carter Construction Co., Inc. proposes to install a Temporary Signal at the price stated below. Material acquired for this project and unable to restock or use elsewhere will paid at Invoice + 5%. We were able to restock the Signals with no charge and use the Electric Service, Wire, Traffic Signal Cable on other projects. The signal installation at Great Oaks and the conduit crossings, pull boxes, signal removal, etc. at O'Conner will be paid for under the original contract per unit bid price. Upon the Temporary Signal 30 day test period completion, maintenance and service calls shall be paid for as force account as needed.

\*All change orders previously approved will be accomplished at the established rate.

| <u>item No.</u> | <u>Description</u>                    | Qty   | <u>Unit</u> | Ĺ  | Init Price | Extension       |
|-----------------|---------------------------------------|-------|-------------|----|------------|-----------------|
| 681-2001        | TEMP TRAFFIC SIGNALS                  | 1.0   | EA          | \$ | 32,975.00  | \$<br>32,975.00 |
| xxx-xxxx        | Deliver Material to Williamson County | 1.0   | LS          | \$ | 750.00     | \$<br>750.00    |
|                 |                                       | TOTAL |             | \$ |            | 33,725.00       |

### Materials will be as follows:

Structural & Steel Traffic Signal Pole Invoice + 5% CMC REBAR Foundation Steel + 5%

\$ 29,415.83 \$ 2,710.75

TOTAL MATERIAL: \$ 32,126.58

These prices do not include any Bond, Traffic Control or Engineering. If Bond is required, the General Contractor will add 3 1/2% to the Bid. These prices are contingent on being awarded all items bid.

G. Carter Construction Company, Inc. is a State Certified WBE and HUB.

If this bid is accepted, it becomes a part of the contract. This quote is good for 30 days from date of this letter.

If additional information is needed, please contact me at (512) 258-1025.

Sincerely,

### Pete Smith

Pete Smith Vice President



RO. Box 760 Cedar Park, Texas 78630-0760

(512) 259-102! Fax (612) 258-102

8/24/2011

Project: County: 11WC906

Williamson

Highway:

O'Connor Drive @ Great Oaks Drive

RE: 681 TEMP SIGNAL JUSTIFICATION

| Item No. | <u>Description</u>                    | <u>Qty</u> | <u>Unit</u> | <u>U</u> | nit Price | Extension      |
|----------|---------------------------------------|------------|-------------|----------|-----------|----------------|
| 681-xxxx | 40 FT TIMBER POLE (CLASS 2)           | 2          | ΕA          | \$       | 1,275.00  | \$<br>2,550.00 |
| 681-xxxx | 3/8" ZINC COATED CABLE                | 560        | LF          | \$       | 1.85      | \$<br>1,036.00 |
| 681-xxxx | 1/4" ZINC COATED CABLE                | 560        | LF          | \$       | 1.65      | \$<br>924.00   |
| 681-xxxx | Ground Anchors                        | 4          | EΑ          | \$       | 875.00    | \$<br>3,500.00 |
| 681-xxxx | Yellow Plastic Guy Guard              | 4          | EΑ          | \$       | 100.00    | \$<br>400.00   |
| 681-xxxx | VIVIDS CAMERA ASSM (INSTALL)          | 6          | EΑ          | \$       | 525.00    | \$<br>3,150.00 |
| 681-xxxx | VIVIDS PROCESSOR CARDS (INSTALL)      | 2          | EΑ          | \$       | 275.00    | \$<br>550.00   |
| 681-xxxx | VIVIDS EXTENSION MODULES (INSTALL)    | 1          | EA          | \$       | 250.00    | \$<br>250.00   |
| 681-xxxx | VIVIDS VIDEO MONITOR (INSTALL)        | 1          | EA          | \$       | 125.00    | \$<br>125.00   |
| 681-xxxx | VIVIDS SET UP SYSTEM                  | 1          | EA          | \$       | 850.00    | \$<br>850.00   |
| 681-xxxx | VIVIDS COMM CABLE (COAX)              | 1310       | LF          | \$       | 2.45      | \$<br>3,209.50 |
| 681-xxxx | VIVIDS (16 AWG) (3 CONDR)             | 1310       | LF          | \$       | 0.75      | \$<br>982.50   |
| 681-xxxx | CONDT PVC SCH 40 (3")                 | 70         | LF          | \$       | 12.25     | \$<br>857.50   |
| 681-xxxx | ELECT CONDR #8 BARE                   | 70         | EΑ          | \$       | 1.10      | \$<br>77.00    |
| 681-xxxx | BACK PLATE (12") (3 SECT)             | 7          | ΕA          | \$       | 85.00     | \$<br>595.00   |
| 681-xxxx | BACK PLATE (12") (4 SECT)             | 2          | EΑ          | \$       | 95.00     | \$<br>190.00   |
| 681-xxxx | BACK PLATE (12") (5 SECT)             | 2          | EA          | \$       | 100.00    | \$<br>200.00   |
| 681-xxxx | VEH SIG SECT (12") LED (GRN ARW)      | 4          | EA          | \$       | 220.00    | \$<br>880.00   |
| 681-xxxx | VEH SIG SECT (12") LED (GRN)          | 11         | EA          | \$       | 236.00    | \$<br>2,596.00 |
| 681-xxxx | VEH SIG SECT (12") LED (YEL ARW)      | 2          | EA          | \$       | 233.00    | \$<br>466.00   |
| 681-xxxx | VEH SIG SECT (12") LED (YEL)          | 11         | EA          | \$       | 252.00    | \$<br>2,772.00 |
| 681-xxxx | VEH SIG SECT (12") LED (RED)          | 11         | EA          | \$       | 214.00    | \$<br>2,354.00 |
| 681-xxxx | TRF SIG CABLE (TY A) 14 AWG (5 CONDR) | 1090       | LF          | \$       | 1.20      | \$<br>1,308.00 |
| 681-xxxx | TRF SIG CABLE (TY A) 14 AWG (7 CONDR) | 480        | LF          | \$       | 1.35      | \$<br>648.00   |
| 681-xxxx | RELOCATE SMALL SIGNS ON SPAN          | 5          | EA          | \$       | 276.00    | \$<br>1,380.00 |
| 681-xxxx | Re-wire Controller for new Temp heads | 1          | EA          | \$       | 1,125.00  | \$<br>1,125.00 |
|          | Т                                     | OTAL       |             | \$       |           | 32,975.50      |

This quote is based on General Contractor furnishing lane closures and police officers for traffic control to pull up span wire, hang signals and wire, and switch over intersection to new. The removal of old signal shall be covered under existing bid items.

These prices do not include any Bond, Traffic Control or Engineering. If Bond is required, the General Contractor will add 3 1/2% to the Bid. These prices are contingent on being awarded all items bid.

G. Carter Construction Company, Inc. is a State Certified WBE and HUB.

If this bid is accepted, it becomes a part of the contract. This quote is good for 30 days from date of this letter.

If additional information is needed, please contact me at (512) 258-1025.

Sincerely,

### Pete Smith

Pete Smith Vice President



### Structural & Steel Products, Inc.

1320 South University Drive, Suite 701

Fort Worth, Texas 76107

Phone: (817) 332-7417 Fax: (817) 338-0638

30529 - 1

Original Quote

12/6/2010

Revised Quote

12/6/2010

Submitted To

G. Carter Construction Co.

Address :

P.O. Box 760

Project Name:

O'Connor Drive Extensions Williamson County

Project No:

Control No:

0

Working Days:

Engineer/Architect:

. . . .

Cedar Park

TX 78630-0000

Phone No: Letting Date:

12/15/2010

Contact Phone:

Pete Smith 512-258-1025

Fax:

512-258-1026

Email :

We are pleased to offer the following proposal for your consideration:

| Item No   | Item Description                 | Qty Unit | Unit Price(\$) | Total Price (\$) |
|-----------|----------------------------------|----------|----------------|------------------|
| 0628 2100 | ELEC SRV POLE TY SP(O)           | 1.00 EA  | -407:68-DK     | 407.68           |
| 0686 0000 | 250w Cobra Hd Fixt w/Lamp        | 2.00 EA  | 478.50         | 957.00           |
| 0686 2041 | TRF SIG PL AM(S) 1 ARM (40) LUM  | 1.00 EA  | 3,999.52       | 3,999.52         |
| 0686 2047 | TRF SIG PL AM(S) 1 ARM (48)      | 1.00 EA  | 3,960.32       | 3,960.32         |
| 0686 2055 | TRF SIG PL AM(S) 1 ARM (55')     | 1.00 EA  | 8,639.68       | 8,639.68         |
| 0686 2065 | TRF SIG PL AM(S) 1 ARM (65') LUM | 1.00 EA  | 10,050.88      | 10,050.88        |

Total Bid Price:

28,015.0

### Notes:

Freight prepaid and allowed. Prices based on shipping in complete quantities to the jobsite with unloading, storage and erection by others. Less than complete quantites may incur additional freight charges.

All fixtures shipped from TXDOT approved stock. Lamps included. Photo cell not included. Customer to determine voltage.

Fixtures ordered in quantity of 3 or less will be shipped with freight prepay and bill. Any quantity over 3 is freight allowed.

Lead time is based on current business conditions and is subject to change at the time of release.

Lead time 8-10 weeks from reciept of order or approved drawings.

Prices include anchor bolts & galvanized finish. Signal Hangers, brackets and CGB connectors are NOT included

### Terms & Conditions :

Payment Terms are Net 30 Days, no retainage, subject to credit approval

This proposal is subject to Structural & Steel Products terms and conditions. Please request a copy by calling (817)332-7417

Prices are good for 30 days and delivery within 180 days of receipt of order.

\$35,018°5 5% 1400°25 \$19,415°6

### SALES INVOICE



Correspondence

CMC Rebar

PO Box 3195

AUSTIN TX 78764-0000 USA

Phone: 512 282 8820

Fax: 512 279 3868 CMC Rebar - Austin

T034

BILL TO PARTY 3017076

G Carter Construction Co Inc

P.O Box 760

Cedar Park, TX 78630-0760

Please Remit Payments To:

CMC Rebar

DEPT. 1088 P.O.Box 121088 DALLAS, TX, 75312-1088

Invoice No / Date: 90543758 06/03/2011

Salesorder/Ref No:

Customer : 3017076

Job

: R/9923700123

Salesperson

SHIP TO PARTY 3017076

G Carter Construction Co Inc

805 N Bell Blvd

Cedar Park, TX 78613-2212

|             | SHIE   | ) - V | IA         |       |         |       |     | INC       | O-TER   | MS               |                |            |         | PAYME                  | NT TERM  | ß            |        |
|-------------|--------|-------|------------|-------|---------|-------|-----|-----------|---------|------------------|----------------|------------|---------|------------------------|----------|--------------|--------|
|             | Road / | Tx    | ruck       |       |         |       | C   | PT C      | Cedar I | Park             |                |            |         | Net Due                | in 30 Da | ays          |        |
| II          | 'EM    |       |            |       | DESCE   | ELPTI | οN  |           |         | Q٦               | Y-8            | HPD        |         | PRICE                  |          | AMOUL        | 1T.    |
| Reinforcing | Steel  | by    | MISCSALE N | per ( | CC AWLK | ,Rel  | 5 I | IST       | - ЈОВ   | #236 P           | O# 1           | BOL#       | 404884  | Del# 573654            | ala      | <b>b</b> .   |        |
| Plain Round |        |       | 420 Bla    | ack   |         |       |     |           |         | 51:              | 2.00           | LB         |         | 53.35/CWT              | 13477    |              | 273.16 |
| Rebar       |        |       | 420 Bla    | ack   |         |       |     |           |         | 2,01             | 4.00           | LB         |         | 53.35/CWT              | `        | <b>\</b> 1,  | 074.50 |
| Reinforcing | Steel  | рÀ    | MISCSALE 1 | per ( | CC AWLM | ,Rel  | 6 I | IST       | - JOB   | #233 P           | <u>o</u> # :   | BOL#       | 404884  | Del# 573657            |          | 17           |        |
| Plain Round |        |       | 420 Bla    | ack   | 0,000   |       |     |           |         | 92               | 2.00           | LB         |         | 53.35/CWT              | 2581, U  |              | 491.90 |
| Rebar       |        |       | 420 Bla    | ack_  | 0 001   |       | _   |           |         | 3,91             | 7.00           | LB         |         | 53.35/CWT              |          | <b></b> ∠ 2, | 089.77 |
| Reinforcing | Steel  | by    | MISCSALE ) | per ( | CC AWLO | ,Rel  | 7 I | IST       | בסמב -  | TIONAL           | PO#            | BOI        | L# 4048 | 84 Del# 5736           | 61       |              |        |
| Plain Round |        |       | 420 Bla    | ack   |         |       |     |           | 10 5    | -1 5             | 1.00           | LB         |         | 53.35/CWT<br>53.35/CWT | 110 K    | 5/           | 27.21  |
| Rebar       |        |       | 420 Bla    | ack   |         |       |     | {         | £5,     | 4                | 0.00           | ΓB         |         | 53.35/CWT              | 900      |              | 21.34  |
|             |        |       |            |       |         |       |     |           |         |                  |                |            |         |                        |          |              |        |
|             |        |       |            |       |         |       |     |           | #25     | 181              | <del>6</del> 7 |            |         | -4581                  | 42       |              |        |
|             |        |       |            |       |         |       | _   | 0/        | /       | 295              | <u></u>        | _          | 25-7    | 5 645                  |          |              |        |
|             |        |       |            |       |         | •     | , د | /υ .<br>' | 12'     | 7/0 <sup>2</sup> | 2              | - <b>,</b> | John    | 8-22                   | 709      |              |        |

REBAR Weight:

7,456.00 LB

Line Totals:

\$3,977.88

Tax:

\$0.00 \$0.00

Freight:

Total Tuvoice Value:

\$3,977.88

JOB # 236 & 233, PRICE INCLUDES A \$100 DELIVERY CHARGE

### DAN WILLIAMS COMPANY

Contractors – Heavy/Highway PO Box 80069, Austin, TX 78708 Telephone (512) 320-1410 Fax (512) 320-1413 HNTB Corporation Round Rock

December 12, 2011

Mr. Gregory Jenkins HNTB 14 Galloping Road Round Rock, Texas 78681

RE:

Project: 11WC906 CSJ: 0914-05-139 Williamson County

Dear Sir,

Dan Williams Company is submitting our proposed pricing for a change order due to plan sheet revisions dated 12-2-2011 concerning the width of the median and transitions at Stations 10+32 to 18+37. Purpose of this change is due to the revisions and Dan Williams Company will now have to place approximately 400 linear feet of TY II Curb using a hand pour method with the new curb profile having the curb placed back to back and not allowing our company to slip-form this area like we had initially bid to install the work.

Please feel free to call at (512) 320-1410 should there be any questions concerning this correspondence.

Respectfully,

Steve Cardwell Project Manager

Dan Williams Company

PROJECT 11WC906
ESTM S. Cardwell
ITEM SUMMARY

BID ITEM: 529-2002 DESCRIPTION: Change Order ACTIVITY: SUMMARY OF CHANGES

**BID QUANTITY:** UNIT

400 LF

UNIT COST \$
UNITS/MAN HOUR

17.67 2.00

|                                    |        |          | PERMANENT E | EOUIPMENT | MISC          |                                       |                   | TIND     | MAN           | UNITS            |
|------------------------------------|--------|----------|-------------|-----------|---------------|---------------------------------------|-------------------|----------|---------------|------------------|
| ACTIVITY QUANTITY DESCRIPTION      | UNIT   | LABOR    |             | RENTAL    | EXPENSE       | SUBCONTRACT                           | TOTAL             | COST     | HOURS         | /MnHr            |
| TY II CURB (HAND POUR)             | F.     | 3,190.00 | 822.00      | 1,001.00  | 300.00        | 00:00                                 | 5,313.00          | 13.28    | 200.00        | 2.00             |
|                                    |        |          |             |           |               |                                       |                   |          |               |                  |
| SUBTOTAL COST                      |        | 3,190.00 | 822.00      | 1,001.00  | 300.00        | 0.00                                  | 5,313.00          |          | 200.00 N      | 200.00 MAN HOURS |
| DIRECT UNIT COST<br>TAXES ON LABOR | 25.00% | 7.98     | 2.06        | 2.50      | 0.75          | 0.00                                  | 13.28<br>1,754.50 |          | 0.500 MnHr/Un | InHr/Un          |
| 529-2002 Change Order              |        | 4,944.50 | 922.00      | 1,001.00  | 300.00        |                                       | 7,067.50          |          |               |                  |
| TOTAL UNIT COST                    |        | 12.36    | 2.06        | 2.50      | 0.75          |                                       | 17.67             |          |               |                  |
| MARKUPS                            |        | 15.00%   | 15.00%      | 15.00%    | 15.00%        | 15.00%                                |                   |          |               |                  |
|                                    |        | 478.50   | 123.30      | 150.15    | 45.00         | ,                                     | 796.95            |          |               |                  |
| UNIT TOTALS                        |        | 5,423.00 | 945.30      | 1,151.15  | 345.00        | ,                                     |                   |          |               |                  |
|                                    |        |          |             |           | EST<br>ESTIM. | ESTIMATED CHANGE ESTIMATED UNIT PRICE | ₩ ₩               | 7.864.45 |               |                  |



www.equipmentwatch.com

### Rental Rate Blue Book®

December 12, 2011

### On-Highway Light Duty Trucks

Miscellaneous Models

Size Class: 200 - 299 HP

### Configuration for On-Highway Light Duty Trucks

Power Mode

Horsepower

Gasoline

Cab Type

Conventional

Axle Configuration

4X2 285.0 Ton Rating

3/4

\_\_\_\_

Blue Book Rates

\*\* FHWA Rate is equal to the monthly ownership cost divided by 176 plus the hourly estimated operating cost.

|                             |           | Ownersh   | Estimated<br>Operating Costs | FHWA Rate** |         |         |
|-----------------------------|-----------|-----------|------------------------------|-------------|---------|---------|
|                             | Monthly   | Weekly    | Daily                        | Hourly      | Hourly  | Hourly  |
| Published Rates             | \$650.00  | \$180.00  | \$45.00                      | \$7.00      | \$24.75 | \$28.44 |
| Adjustments                 |           |           |                              |             |         |         |
| Region (Texas:<br>91.4%)    | (\$55.90) | (\$15.48) | (\$3.87)                     | (\$0.60)    |         |         |
| Model Year (2008:<br>97.5%) | (\$14.85) | (\$4.11)  | (\$1.03)                     | (\$0.16)    |         |         |
| Ownership (100%)            | -         | •         | <u></u>                      | -           |         |         |
| Operating (100%)            |           |           |                              |             | -       |         |
| Total:                      | \$579.25  | \$160.41  | \$40.10                      | \$6.24      | \$24.75 | \$28.04 |

### Rate Element Allocation

| Element                   | Percentage | Value                  |
|---------------------------|------------|------------------------|
| Depreciation (ownership)  | 58%        | \$3 <b>7</b> 7.00 / mo |
| Overhaul (ownership)      | 27%        | \$175.50 / mo          |
| CFC (ownership)           | 5%         | \$32.50 / mo           |
| Indirect (ownership)      | 10%        | \$65.00 / mo           |
| Fuel (operating) @ \$3.84 | 84%        | \$20. <b>7</b> 9 / hr  |

Revised Date: 2nd Half 2011



www.equipmentwatch.com

### Rental Rate Blue Book®

December 12, 2011

Non-Tilt Deck Utility Trailers

Miscellaneous Models

Size Class:

Αll

Configuration for Non-Tilt Deck Utility Trailers

Number of Axles

2

Number of Tires

Hitch Type

Tow

Capacity

8.0 t

### **Blue Book Rates**

\*\* FHWA Rate is equal to the monthly ownership cost divided by 176 plus the hourly estimated operating cost.

|                             |           | Ownersh   | Estimated<br>Operating Costs | FHWA Rate** |        |        |
|-----------------------------|-----------|-----------|------------------------------|-------------|--------|--------|
|                             | Monthly   | Weekly    | Daily                        | Hourly      | Hourly | Hourly |
| Published Rates             | \$335.00  | \$94.00   | \$24.00                      | \$4.00      | \$1.90 | \$3.80 |
| Adjustments                 |           |           |                              |             |        |        |
| Region (Texas:<br>86.8%)    | (\$44.22) | (\$12.41) | (\$3.17)                     | (\$0.53)    |        |        |
| Model Year (2007:<br>96.1%) | (\$11.34) | (\$3.18)  | (\$0.81)                     | (\$0.14)    |        |        |
| Ownership (100%)            | -         | -         | -                            | -           |        |        |
| Operating (100%)            |           |           |                              |             |        |        |
| Total:                      | \$279.44  | \$78.41   | \$20.02                      | \$3.33      | \$1.90 | \$3.49 |

### Rate Element Allocation

| Element                  | Percentage               | Value                    |  |  |
|--------------------------|--------------------------|--------------------------|--|--|
| Depreciation (ownership) | 46%                      | \$154.10 / mo            |  |  |
| Overhaul (ownership)     | 35%                      | \$117.25 / mo            |  |  |
| CFC (ownership)          | 6%                       | \$20.10 / mo             |  |  |
| Indirect (ownership)     | 13%                      | \$43.55 / mo             |  |  |
| Fuel (operating)         | Fuel cost data is not av | ailable for these rates. |  |  |

Revised Date: 2nd Half 2011



www.equipmentwatch.com

### Rental Rate Blue Book®

December 12, 2011

**Small Generator Sets** 

Miscellaneous Models

Size Class:

Prime Output: To 5,000 Watts

Configuration for Small Generator Sets

Power Mode

Gasoline

Prime Output

3,000 w

Horsepower

8.0

Manufacturer Notes: Small diesel generators are enclosed and trailer mounted.

### **Blue Book Rates**

\*\* FHWA Rate is equal to the monthly ownership cost divided by 176 plus the hourly estimated operating cost.

|                          |           | Ownersh  | Estimated<br>Operating Costs | FHWA Rate** |        |        |
|--------------------------|-----------|----------|------------------------------|-------------|--------|--------|
|                          | Monthly   | Weekly   | Daily                        | Hourly      | Hourly | Hourly |
| Published Rates          | \$115.00  | \$32.00  | \$8.00                       | \$1.00      | \$3.10 | \$3.75 |
| Adjustments              |           |          |                              |             |        |        |
| Region (Texas:<br>86.6%) | (\$15.41) | (\$4.29) | (\$1.07)                     | (\$0.13)    |        |        |
| Model Year (100%)        | -         | -        | -                            | •           |        |        |
| Ownership (100%)         | -         | -        | -                            | -           |        |        |
| Operating (100%)         |           |          |                              |             | -      |        |
| Total:                   | \$99.59   | \$27.71  | \$6.93                       | \$0.87      | \$3.10 | \$3.67 |

### **Rate Element Allocation**

| Element                   | Percentage   | Value        |
|---------------------------|--------------|--------------|
| Depreciation (ownership)  | 51%          | \$58.65 / mo |
| Overhaul (ownership)      | 30%          | \$34.50 / mo |
| CFC (ownership)           | 8%           | \$9.20 / mo  |
| Indirect (ownership)      | 1 <b>1</b> % | \$12.65 / mo |
| Fuel (operating) @ \$2.87 | 63%          | \$1,97 / hr  |

Revised Date: 1st Half 2011

APAC Texas, Inc.
Texas Concrete Materials
1 Chisholm Trail Ste 450
Round Rock, TX 78681

Phone: 512-861-7100



a division of the Southwest Group of Oldcastle Materials

| Customer<br>Number                                  | Invoice<br>Date | Invoice<br>Number | Customer Job | Receivable<br>Type |
|---|-----------------|-------------------|--------------|--------------------|
| 241597  | 11/23/11        | 200137739         | 1118         | 41                 |
| Customer  | PO              | Plan              | t            | Tax Code           |
| 620 & O CONNOR 05086 Readymix - Brushy Creek TX0000 |                 |                   |              |                    |
| Ship to 620 & O CONNOR CURB // FIB                  |                 |                   |              |                    |

DAN WILLIAMS CO PO BOX 80069 AUSTIN, TX 78708-0069

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| TOTALS | Product Cost | Freight | CY QTY | Tax    | Total      |
|--------|--------------|---------|--------|--------|------------|
|        | \$2,055.00   | \$0.00  | 30.00  | \$0.00 | \$2,055.00 |

| Date     | Ticket# | Product | Product Description | U/M | Quantity | Price | Tax  | Amount |
|----------|---------|---------|---------------------|-----|----------|-------|------|--------|
| 11/23/11 | 8619458 | TXDOT2A | 5.0 SK 30% FA TX    | CY  | 10.00    | 54.50 | 0.00 | 545.00 |
| 11/23/11 | 8619458 | FIBER35 | PSI FIBRILLATED     | BAG | 10.00    | 14.00 | 0.00 | 140.00 |
| 11/23/11 | 8619477 | TXDOT2A | 5.0 SK 30% FA TX    | CY  | 10.00    | 54.50 | 0.00 | 545.00 |
| 11/23/11 | 8619477 | FIBER35 | PSI FIBRILLATED     | BAG | 10.00    | 14.00 | 0.00 | 140.00 |
| 11/23/11 | 8619492 | TXDOT2A | 5.0 SK 30% FA TX    | CY  | 10.00    | 54.50 | 0.00 | 545.00 |
| 11/23/11 | 8619492 | FIBER35 | PSI FIBRILLATED     | BAG | 10.00    | 14.00 | 0.00 | 140.00 |

OBNO. 1013-Nov.

SUB EORENT OTHER

DAN WILLIAMS CO PO BOX 80069 AUSTIN, TX 78708-0069

| Number    |          | Customer<br>Number |            |
|-----------|----------|--------------------|------------|
| 200137739 | 11/23/11 | 241597             | \$2,055.00 |



Terms: Our terms are Net 30 Days. We will assess up to the states legal maximum rate for finance charges on delinquent accounts.

Remit To: APAC Texas, Inc. Texas Concrete Materials 1 Chisholm Trail Ste 450 Round Rock, TX 78681 Please tear off and return this remittance coupon with your payment so it can be applied correctly.