

WILLIAMSON COUNTY, TEXAS  
CHANGE ORDER NUMBER: 4

Received  
Received  
MAR 14 2012  
MAR 5 2012  
HNTB Corporation

1. CONTRACTOR: Dan Williams Company
2. Change Order Work Limits: Sta. 9+00 to Sta. 12+00
3. Type of Change(on federal-aid non-exempt projects): Minor (Major/Minor)
4. Reasons: 3H, 3F, 4B (3 Max. - In order of importance - Primary first)

Project: Round Rock TB Corporation  
11WC906  
Roadway: O'Connor Dr Ext  
Purchase Order  
Number: \_\_\_\_\_

5. Describe the work being revised:

**3H: County Convenience. Cost savings opportunity discovered during construction.** This Change Order provides for changes to the signal and roadway work at the intersection of O'Connor and RM 620 to match the future widening of RM 620 and minimize rework. **3F: County Convenience. Additional work desired by the County.** This Change Order adjusts the alignment of the roadway and the width of the center median 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. **4B: Third Party Accommodation. Third party requested work.** This Change Order also compensates the Contractor for changing the landscape paver pattern on O'Connor, north of RM 620, at the request of the Neighborhood Association.

6. Work to be performed in accordance with Items: See Attached  
2, 4, 12, 12A, 16-17, 19, 35-36, 42, 133, 157-159, 180-193
7. New or revised plan sheet(s) are attached and numbered: 159, 180-193
8. New Special Provisions to the contract are attached: ☐ Yes ☒ No
9. New Special Provisions to Item N/A No. N/A, Special Specification Item N/A are attached.

Each signatory hereby warrants that each has the authority to execute this Change Order (CO).

|                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                       |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><i>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.</i></p> <p>THE CONTRACTOR Date <u>3-2-12</u></p> <p>By <u>[Signature]</u></p> <p>Typed/Printed Name <u>STEVE CARWELL</u></p> <p>Typed/Printed Title <u>VP CENTRAL TEXAS</u></p> | <p><b>The following information must be provided</b></p> <p>Time Ext. #: <u>N/A</u> Days added on this CO: <u>0</u></p> <p>Amount added by this change order: <u>(\$3,842.95)</u></p> |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

RECOMMENDED FOR EXECUTION:

[Signature] P.E. 3/6/12  
Project Manager Date

N/A  
Design Engineer Date

[Signature] 3/9/2012  
Program Manager Date

Design Engineer's Seal:

See Revised Plan Sheets

County Commissioner Precinct 1 Date  
☐ APPROVED ☐ REQUEST APPROVAL

County Commissioner Precinct 2 Date  
☐ APPROVED ☐ REQUEST APPROVAL

County Commissioner Precinct 3 Date  
☐ APPROVED ☐ REQUEST APPROVAL

County Commissioner Precinct 4 Date  
☐ APPROVED ☐ REQUEST APPROVAL

[Signature] 03-23-2012  
☒ APPROVED County Judge 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

| ITEM     | DESCRIPTION                                      | UNIT | UNIT PRICE | ORIGINAL + PREVIOUSLY REVISED |                | ADD or (DEDUCT) | NEW       |                | OVERRUN/<br>UNDERRUN |
|----------|--------------------------------------------------|------|------------|-------------------------------|----------------|-----------------|-----------|----------------|----------------------|
|          |                                                  |      |            | QUANTITY                      | ITEM COST      |                 | QUANTITY  | ITEM COST      |                      |
| 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              |
| 164-2011 | 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              |
| TOTALS   |                                                  |      |            |                               | \$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)

[illegible]

## CHANGE ORDER REASON(S) CODE CHART

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

## GENERAL

- 1 TITLE SHEET - O'CONNOR DRIVE EXTENSION
- 2 INDEX OF SHEETS
- 3 PROJECT LAYOUT
- 4 - 7 TYPICAL SECTIONS
- 8 - 12 GENERAL NOTES AND SPECIFICATIONS
- 13 TCEO GENERAL NOTES
- 14 HORIZONTAL ALIGNMENT & SURVEY DATA
- 15 ESTIMATE AND QUANTITY SHEET
- 16 - 18 SUMMARY OF QUANTITIES
- 19 SUMMARY OF SMALL SIGNS

## TRAFFIC CONTROL DETAILS

- 20 TRAFFIC CONTROL PLAN

## TRAFFIC CONTROL STANDARDS

- 21 - 32 BC-07
- 33 TCEP15-201-10
- 34 TCEP12-41-03

## ROADWAY DETAILS

- 35 - 41 ROADWAY PLAN AND PROFILE LAYOUTS

## ROADWAY STANDARDS

- 42 INTERSECTION LAYOUTS
- 43 BEO-09
- 44 CCC-10A
- 45 MDOF-09
- 46 MDOF (TRI)-09
- 47 SOT (T)-10
- 48 SOT (B)-09
- 49 CR
- 50 MDOF (MS)-10
- 51 PAVEMENT CITY OF AUSTIN STANDARDS

## DRAINAGE DETAILS

- 52 OFFSITE DRAINAGE AREA MAP
- 53 - 54 DRAINAGE AREA MAP
- 55 DRAINAGE PLAN LAYOUTS
- 56 CULVERT PLAN & ELEVATION
- 57 CULVERT 1 PLAN AND PROFILE
- 58 CULVERT 2 PLAN AND PROFILE
- 59 CULVERT 3 PLAN AND PROFILE
- 60 - 66 CULVERT HYDRAULIC DATA
- 67 BRIDGE HYDRAULIC DATA

## DRAINAGE STANDARDS

- 68 RCS
- 69 MC-S-20
- 70 MC-S-16
- 71 SCC-S & E
- 72 SCP-S
- 73 SCP-6
- 74 - 76 SETB-FW-0
- 77 - 79 SETB-FW-S

## BRIDGE

- 80 - 82 BRIDGE LAYOUTS
- 83 RIPRAP DETAILS
- 84 - 85 FOUNDATION LAYOUTS
- 86 - 87 ABUTMENT 1 PLAN AND ELEVATION
- 88 - 89 ABUTMENT 10 PLAN AND ELEVATION
- 90 - 91 ABUTMENT DETAILS
- 92 - 93 BENT 2-G PLAN AND ELEVATION
- 94 - 95 BENT 7 PLAN AND ELEVATION
- 96 - 97 BENT 8 PLAN AND ELEVATION
- 98 - 99 BENT 9 PLAN AND ELEVATION
- 100 - 104 BENT DETAILS
- 105 - 106 FLOODING PLAN
- 107 - 111 SLAB PLAN
- 112 SLAB SECTIONS
- 113 SLAB DETAILS

## BRIDGE STANDARDS

- 114 IGD
- 115 - 116 IGD
- 117 - 118 IGD
- 119 IGD
- 120 IGD
- 121 JOTS
- 122 MTR (C)
- 123 BAS-C
- 124 - 125 FWD
- 126 CSAB
- 127 SEU-A
- 128 - 129 FD
- 130 CR
- 131 - 132 TYPE SS7H

## SIGNING AND STRIPING DETAILS

- 133 - 136 SIGNING AND STRIPING PLAN
- 137 SIGN DETAIL SHEET

## SIGNING AND STRIPING STANDARDS

- 138 DGM (1)-10
- 139 DGM (2)-04
- 140 DGM (4)-04
- 141 DGM (5)-04
- 142 DGM (VIA)-04
- 143 - 145 TSH-08
- 146 WZ (DERD)-03
- 147 PM (6)-01
- 148 PM (1)-03
- 149 PM (2)-10
- 150 PM (4)-10
- 151 SMO (GEN)-08
- 152 - 154 SMO (SLIP)-08
- 155 SMO (FRP)-08

## SIGNAL DETAILS

- 156 EXISTING SIGNAL LAYOUT
- 157 TEMPORARY SIGNAL LAYOUT
- 158 SIGNAL ELEVATION LAYOUT - OM (1)
- 159 ELECTRICAL SCHEDULE

## SIGNAL STANDARDS

- 160 TS-FD-99
- 161 - 166 ED (11)-03, (8)-03
- 167 SNA-80 (11)-99
- 168 SNA-80 (12)-96
- 169 LUM-A-99
- 170 MA-C-96
- 171 MA-D-07
- 172 TS-CF-04
- 173 WZ (BTS)-11-03
- 174 WZ (BTS)-21-03
- 175 - 178 LMA (11)-1041-01
- 179 VIVDS
- 180 PEDESTAL POLE ASSEMBLY
- 181 MISC. DETAILS

## SW3P DETAILS

- 182 - 186 SW3P PLAN LAYOUTS

## SW3P STANDARDS

- 187 EC (1)-08
- 188 EC (2)-93
- 189 EC (3)-93

## CROSS SECTIONS

- 190 - 227 CROSS SECTIONS 1' + 50'

## BORING LOGS

- 228 - 233 BORING LOGS

## GENERAL

- 234 TITLE SHEET - O'CONNOR DRIVE & GREAT OAKS DRIVE INTERSECTION IMPROVEMENTS
- 235 PROJECT LAYOUT
- 236 - 237 TYPICAL SECTIONS
- 238 SUMMARY OF QUANTITIES
- 239 SUMMARY OF SMALL SIGNS
- 240 HORIZONTAL ALIGNMENT DATA

## TRAFFIC CONTROL

- 241 - 242 TRAFFIC CONTROL PLAN - GREAT OAKS DR.
- 243 - 244 TRAFFIC CONTROL PLAN - O'CONNOR DR.

## TRAFFIC CONTROL STANDARDS

- 245 - 256 BC (01)-121-07 (TXDOT STANDARD)
- 257 TCEP (1)-41-96 (TXDOT STANDARD)
- 258 TCEP (2)-41-03 (TXDOT STANDARD)
- 259 WZ (STRIP)-05 (TXDOT STANDARD)
- 260 WZ (TD)-03 (TXDOT STANDARD)

## ROADWAY

- 261 REMOVAL PLAN - O'CONNOR DR.
- 262 REMOVAL PLAN - GREAT OAKS DR.
- 263 ROADWAY PLAN AND PROFILE - O'CONNOR DR.
- 264 ROADWAY PLAN AND PROFILE - GREAT OAKS DR.
- 265 - 266 HAMP DETAIL SHEET

## ROADWAY STANDARDS

- 267 CCG (0A) (TXDOT STANDARD)
- 268 - 271 PED-05 (TXDOT STANDARD)

## DRAINAGE

- 272 - 274 DRAINAGE LAYOUT
- 275 - 276 WATER QUALITY DETAILS

## DRAINAGE STANDARDS

- 277 - 278 CURB INLET DETAILS (COCA DETAILS)

## UTILITIES

- 279 UTILITY PLAN - O'CONNOR DR.
- 280 UTILITY PLAN - GREAT OAKS DR.

## SIGNALS

- 281 SIGNAL LAYOUT - GREAT OAKS DR.
- 282 SIGNAL ELEVATION AND PHASING

## SIGNAL STANDARDS

- 283 TS-FD-99 (TXDOT STANDARD)
- 284 ED (11)-03 (TXDOT STANDARD)
- 285 ED (12)-03 (TXDOT STANDARD)
- 286 WZ (BTS)-11-03 (TXDOT STANDARD)
- 287 WZ (BTS)-21-03 (TXDOT STANDARD)
- 288 PEDESTAL POLE ASSEMBLY (AUSTIN DISTRICT)
- 289 MISC. DETAILS (AUSTIN DISTRICT)

## SIGNING AND STRIPING

- 290 SIGNING AND STRIPING PLAN - O'CONNOR DR.
- 291 SIGNING AND STRIPING PLAN - GREAT OAKS DR.

## SIGNING AND STRIPING STANDARDS

- 292 PM (1)-03 (TXDOT STANDARD)
- 293 PM (2)-10 (TXDOT STANDARD)
- 294 PM (6)-01 (TXDOT STANDARD)
- 295 SMO (GEN)-08 (TXDOT STANDARD)
- 296 SMO (SLIP)-11-08 (TXDOT STANDARD)
- 297 SMO (SLIP)-21-08 (TXDOT STANDARD)
- 298 SMO (SLIP)-31-08 (TXDOT STANDARD)
- 299 PM (4)-10 (TXDOT STANDARD)

## EROSION CONTROL

- 300 STORM WATER POLLUTION PREVENTION PLAN
- 301 SW3P PLAN - O'CONNOR DR.
- 302 SW3P PLAN - GREAT OAKS DR.

## EROSION CONTROL STANDARDS

- 303 EC (11)-09 (TXDOT STANDARD)

## CROSS SECTIONS

- 304 - 305 CROSS SECTIONS - O'CONNOR DR.

## NOTES

1. BOTH THE O'CONNOR DRIVE EXTENSION AND THE INTERSECTION IMPROVEMENT PROJECT ARE INCLUDED IN THIS PLAN SET.
2. ONE PROJECT CONSTRUCTION MANUAL (PCM) AND ONE WATER POLLUTION ABATEMENT PLAN (WPAP) HAS BEEN ISSUED THAT INCLUDES BOTH PROJECTS.



1848

klotz associates

301 SOUTH MOORE EXPRESSWAY  
BIRMINGHAM, AL 35202-2000  
AUSTIN, TX 78746  
Phone: (404) 348-0711 Fax: (404) 348-5174  
Telex: 51 Firm Reg. 47-403

|     |                   |    |          |
|-----|-------------------|----|----------|
| 1   | AGENDUM #1        |    | 12-10-10 |
| 2   | HAT AND DRIVEWAYS |    | 4/2011   |
| 3   | TEMP SIGNAL       |    | 9/2011   |
| REV | DESCRIPTION       | BY | DATE     |

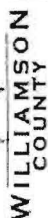
O'CONNOR DRIVE  
EXTENSION  
INDEX OF SHEETS

|                                       |
|---------------------------------------|
| Project Number: 0510-003              |
| Draw: 0014-05-139                     |
| Client: L.B. O'CONNOR DRIVE EXTENSION |
| Drawn by: AS SHORN                    |
| Checked by: 101                       |
| Date: 2                               |

THE STANDARD SHEETS SPECIFICALLY IDENTIFIED ABOVE  
HAVE BEEN SELECTED BY MEOR UNDER MY RESPONSIBLE  
SUPERVISION AS BEING APPLICABLE TO THIS PROJECT.



09/19/11



Klotz Associates

11

虎

101-20-9101

with a 100% effect over a 10-year

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### LEGEND

- ① 2" TYPE C HOSE/CP  
(PG 10-22) (OVERLAY)
- ② 2" TYPE C HOSE/CP  
(PG 10-22) (SUB) 
- ③ ASPHALT MATERIAL (PG-30)  
(PRIME)
- ④ 15.5" FLEX BASE  
(1" A GR 5) 13 EQUAL LIFTS)
- ⑤ 4" TOPSOIL & SEEDING

## NOTES:

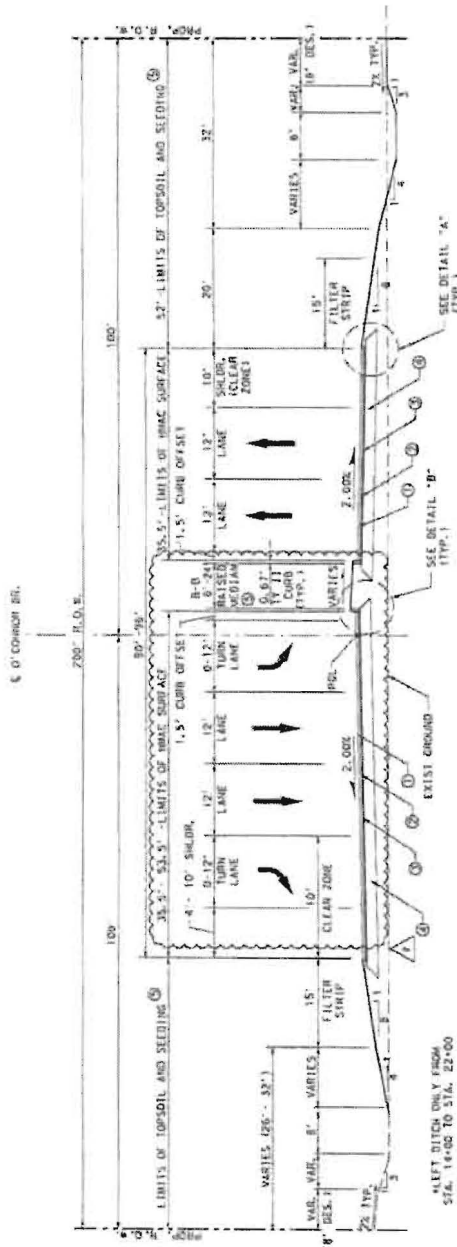
SUBGRADE TO BE LIVE TREATED BY CONTRACTOR IN AREAS WITH HIGH P.I. SOILS AS DEFINED IN THE GEOTECHNICAL REPORT OR AS DETERMINED BY ENGINEER DURING CONSTRUCTION.

| LINE | DESCRIPTION        | DATE     |
|------|--------------------|----------|
| 1    | ISSUE TYPE         | 4/20/11  |
| 2    | MEDIA MODIFICATION | 11/20/11 |

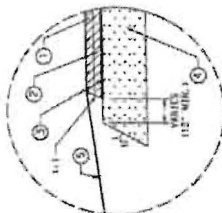


CONNOR DRIVE  
EXTENSION  
TYPICAL SECTIONS

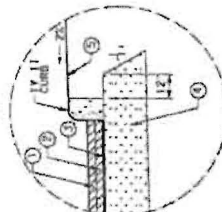
|                                               |             |            |    |            |   |
|-----------------------------------------------|-------------|------------|----|------------|---|
| Model F-0012 vs. B576, 003                    |             |            |    |            |   |
| IN# 0814-05-123                               |             |            |    |            |   |
| EXEMPTED FROM U.S. O' CONDON DRIVEL EXTENSION |             |            |    |            |   |
| Exempt By                                     | JPM         | Request #: | MW | Start Date | 4 |
| Amount                                        | \$5,349,000 |            |    |            |   |
| Date                                          | 12/2/2011   |            |    |            |   |



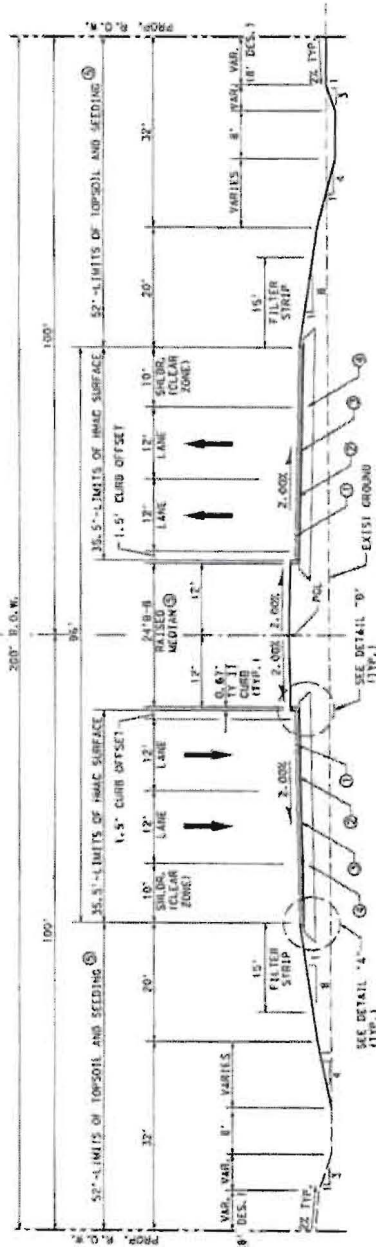
PROPOSED O'CONNOR DR. TYPICAL SECTION  
STA. 10+32.06 TO STA. 18+37.45



DETAIL "A"



### DETAIL "B"



PROPOSED O'CONNOR DR. TYPICAL SECTION  
STA. 18+37.45 TO STA. 57+47.07

\*LEFT DITCH ONLY FROM  
STA. 14+00 TO STA. 22+00 &  
STA. 34+00 TO STA. 44+00

100

\*LEFT DITCH ONLY FROM  
CITY 1:00 TO 5:00 PM

31A. 19-00 TO 31A. 22-00  
37A. 34-00 TO 37A. 44-00

1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 26

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Leave at least 2 feet for each cable run in each pull box and leave at least 2 feet in each step zone in addition to the required length for each cable run. Provide an extra 5 feet of each conductor (unterminated) in the controller cabinet. Insure conductors are continuous at least 3 feet from terminal point to terminal point or as directed. No splicing allowed.

Providing 6 separate multi-conductor signal cables (14 AWG) inside protected cables and multi-core wiring pipes from the terminal strip to each signal board as shown on the plans.

## ITEM 606 - TRAFFIC SIGNAL POLE ASSEMBLY (STEEL)

Install air wings on all mast arms 10 feet and over. Consider the cost for the provision and installation of air wings as subsidiary to the major job items found within this project.

Provide cable nuts on top and bottom of the base plate of screen on the standards.

Proving signal noise assembly is as shown on plans. Luminance lamps and the installation of the arm and lamps are considered subsidiary to the main layout items.

When laminaires are to be laminated on metal or on tubes, provide a separate terminal strip in the slotted pole across component. The terminal strip should be a 4-circuit Buchten type 1045B, Kuka-type 285-22-4 U, or equivalent.

Provision is to employ daily fuse for traffic signal poles only which indicates one to be installed. Place the fuse in the fuse block indicated within note as found on State standard M-207.

## ITEM 808 - PEDESTRIAN DETECTORS AND VEHICLE LOOP DETECTORS

Redirection push buttons will be mounted at a height of 3'-6" (42") above the sidewalk or landing and will be of the type that have permanent-type signals within the detector unit. 15" x 17" sign & push button station on Signal Poles and 5" x 7" sign & push buttons installed on Pedestrian Poles, which explain their purpose and indicated which crosswalk signal is installed.

Repair or replace any steam button detector, which proves to be inoperative for a period of 4 weeks from the initial test turn in date. At the end of this 4-week period, the Engineer will release the Contractor of any maintenance of this portion of the signal system.

Production push buttons will be of substantial longer, breast construction. The push button will be ADA and TSC compliant. The push button will have a powder coated aluminum bezel with stainless steel actuator. The push button will utilize a momentary contact solid state switching mechanism rated for 250 VAC to 1000 Watts. The low impedance push button will be functional in testing conditions. All fastening hardware will be stainless steel.

from qualitative feedbacks, all the mainly quantitative phytol. but other for the  
 turned on and off, and not conflict with any 256. 150000.

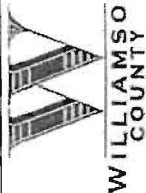
## ITEM 6007 - REMOVING TRAFFIC SIGNALS

Provide for the removal and storage of the existing signal and the replacement signal is in operation. Remove abandoned fixtures as detailed in 2005 Special Specifications. Items to be returned to the Austin District Traffic Signal Shop (1995 year in 33) includes signal cabinets on assembly from Page 2. Contact the Signal Shop Supervisor at (512) 832-7061 to make arrangements for delivery of signal items.

It is the responsibility of the Contractor to verify all items and quantities listed herein.

LIST OF MATERIAL/LABOR  
SUBSIDIARY TO ITEM (8)

| DESCRIPTION                       | UNIT | QTY/175 |
|-----------------------------------|------|---------|
| 40 X 1/2" THINER CIRCLE 154505 29 | EA   | 2       |
| 200" 210" CIRC COILS 154505 30    | EA   | 2       |
| 100" 210" CIRC COILS 154505 31    | EA   | 2       |
| 500" 210" CIRC COILS 154505 32    | EA   | 4       |
| 500" 210" CIRC COILS 154505 33    | EA   | 4       |
| 500" 210" CIRC COILS 154505 34    | EA   | 4       |
| 500" 210" CIRC COILS 154505 35    | EA   | 4       |
| 500" 210" CIRC COILS 154505 36    | EA   | 4       |
| 500" 210" CIRC COILS 154505 37    | EA   | 4       |
| 500" 210" CIRC COILS 154505 38    | EA   | 4       |
| 500" 210" CIRC COILS 154505 39    | EA   | 4       |
| 500" 210" CIRC COILS 154505 40    | EA   | 4       |
| 500" 210" CIRC COILS 154505 41    | EA   | 4       |
| 500" 210" CIRC COILS 154505 42    | EA   | 4       |
| 500" 210" CIRC COILS 154505 43    | EA   | 4       |
| 500" 210" CIRC COILS 154505 44    | EA   | 4       |
| 500" 210" CIRC COILS 154505 45    | EA   | 4       |
| 500" 210" CIRC COILS 154505 46    | EA   | 4       |
| 500" 210" CIRC COILS 154505 47    | EA   | 4       |
| 500" 210" CIRC COILS 154505 48    | EA   | 4       |
| 500" 210" CIRC COILS 154505 49    | EA   | 4       |
| 500" 210" CIRC COILS 154505 50    | EA   | 4       |
| 500" 210" CIRC COILS 154505 51    | EA   | 4       |
| 500" 210" CIRC COILS 154505 52    | EA   | 4       |
| 500" 210" CIRC COILS 154505 53    | EA   | 4       |
| 500" 210" CIRC COILS 154505 54    | EA   | 4       |
| 500" 210" CIRC COILS 154505 55    | EA   | 4       |
| 500" 210" CIRC COILS 154505 56    | EA   | 4       |
| 500" 210" CIRC COILS 154505 57    | EA   | 4       |
| 500" 210" CIRC COILS 154505 58    | EA   | 4       |
| 500" 210" CIRC COILS 154505 59    | EA   | 4       |
| 500" 210" CIRC COILS 154505 60    | EA   | 4       |
| 500" 210" CIRC COILS 154505 61    | EA   | 4       |
| 500" 210" CIRC COILS 154505 62    | EA   | 4       |
| 500" 210" CIRC COILS 154505 63    | EA   | 4       |
| 500" 210" CIRC COILS 154505 64    | EA   | 4       |
| 500" 210" CIRC COILS 154505 65    | EA   | 4       |
| 500" 210" CIRC COILS 154505 66    | EA   | 4       |
| 500" 210" CIRC COILS 154505 67    | EA   | 4       |
| 500" 210" CIRC COILS 154505 68    | EA   | 4       |
| 500" 210" CIRC COILS 154505 69    | EA   | 4       |
| 500" 210" CIRC COILS 154505 70    | EA   | 4       |
| 500" 210" CIRC COILS 154505 71    | EA   | 4       |
| 500" 210" CIRC COILS 154505 72    | EA   | 4       |
| 500" 210" CIRC COILS 154505 73    | EA   | 4       |
| 500" 210" CIRC COILS 154505 74    | EA   | 4       |
| 500" 210" CIRC COILS 154505 75    | EA   | 4       |
| 500" 210" CIRC COILS 154505 76    | EA   | 4       |
| 500" 210" CIRC COILS 154505 77    | EA   | 4       |
| 500" 210" CIRC COILS 154505 78    | EA   | 4       |
| 500" 210" CIRC COILS 154505 79    | EA   | 4       |
| 500" 210" CIRC COILS 154505 80    | EA   | 4       |
| 500" 210" CIRC COILS 154505 81    | EA   | 4       |
| 500" 210" CIRC COILS 154505 82    | EA   | 4       |
| 500" 210" CIRC COILS 154505 83    | EA   | 4       |
| 500" 210" CIRC COILS 154505 84    | EA   | 4       |
| 500" 210" CIRC COILS 154505 85    | EA   | 4       |
| 500" 210" CIRC COILS 154505 86    | EA   | 4       |
| 500" 210" CIRC COILS 154505 87    | EA   | 4       |
| 500" 210" CIRC COILS 154505 88    | EA   | 4       |
| 500" 210" CIRC COILS 154505 89    | EA   | 4       |
| 500" 210" CIRC COILS 154505 90    | EA   | 4       |
| 500" 210" CIRC COILS 154505 91    | EA   | 4       |
| 500" 210" CIRC COILS 154505 92    | EA   | 4       |
| 500" 210" CIRC COILS 154505 93    | EA   | 4       |
| 500" 210" CIRC COILS 154505 94    | EA   | 4       |
| 500" 210" CIRC COILS 154505 95    | EA   | 4       |
| 500" 210" CIRC COILS 154505 96    | EA   | 4       |
| 500" 210" CIRC COILS 154505 97    | EA   | 4       |
| 500" 210" CIRC COILS 154505 98    | EA   | 4       |
| 500" 210" CIRC COILS 154505 99    | EA   | 4       |
| 500" 210" CIRC COILS 154505 100   | EA   | 4       |



**klotz associates**  
401 SOUTH WYOMING AVE.  
SUITE 2100 P.O. BOX 310  
DENVER, CO 80202  
PHONE (303) 524-3377 FAX (303) 524-3378  
LEAD 16 FROM REG. NO. 1231

|   |                    |        |
|---|--------------------|--------|
| 1 | UDF CRASHES SIGNAL | 4/2011 |
| 2 | UDF CRASHES SIGNAL | 5/2011 |

NEW DESCRIPTION *James E. Thompson* DATE *7/12/74*



O'CONNOR DRIVE  
EXTENSION  
GENERAL NOTES  
AND SPECIFICATIONS

|                                 |             |
|---------------------------------|-------------|
| Order Request No.               | 0510-003    |
| Est.                            | 0816-95-128 |
| <b>CONCRETE DRIVE EXTENSION</b> |             |
| Contract By                     | CMS         |
| Drawing No.                     | 65          |
| Date                            | 6.5.2004    |
| Scale                           | 1:100       |
| Sheet No.                       | 12A         |

# ROADWAY QUANTITIES

| SUMMARY OF ROADWAY QUANTITIES  |                   |                                      |                                           |                    |                              |                      |                           |              |                                        |                  |                   |                            |                          |                  |                   |                      |
|--------------------------------|-------------------|--------------------------------------|-------------------------------------------|--------------------|------------------------------|----------------------|---------------------------|--------------|----------------------------------------|------------------|-------------------|----------------------------|--------------------------|------------------|-------------------|----------------------|
| 100                            | 110               | 132                                  | 247                                       | 310                | 341                          | 432                  | 500                       | 502          | 528                                    | 529              | 529               | 529                        | 530                      | 531              | 538               |                      |
| 2002                           | 2001              | 2003                                 | 2366                                      | 2001               | 2050                         | 2002                 | 2001                      | 2001         | 2004                                   | 2002             | 2004              | 2006                       | 2010                     | 2010             | 2001              |                      |
| PREP ROW                       | EXCAVATION (RDWY) | EMBANKMENT (FINAL) (ORD COMP) (TY B) | FL BS (CMP IN PLC) (TY A GR 5) (FNAL POS) | PRIME COAT (MC-30) | D-GR HMA (OCOA) TY-C PG70-22 | RIPRAC (CONC) (5 IN) | RIPRAC (MON STRIP) (5 IN) | MOBILIZATION | BARRICADES, SIGNS AND TRAFFIC HANDLING | LANDSCAPE PAVERS | CONC CURB (TY 11) | CONC CURB & GUTTER (TY 11) | CONC CURB (MONO) (TY 11) | DRIVEWAYS (CONC) | CURB RAMPS (TY 7) | RIGHT OF WAY MARKERS |
| STA TO STA                     | STA               | CY                                   | CY                                        | CY                 | TON                          | CY                   | CY                        | LS           | MO                                     | SY               | LF                | LF                         | LF                       | SY               | EA                | EA                   |
| BEGINNING TO STA. 17+00.00     | 6.7               | (2,638)                              | 2,430                                     | 4,096              | 1,379                        | 1,516                | 2                         | 0            | 0                                      | 0                | 1,170             | 0                          | 0                        | 0                | 1                 | 4                    |
| STA. 17+00.00 TO STA. 29+00.00 | 12.0              | 7,074                                | 8,610                                     | 4,725              | 1,893                        | 2,092                | 0                         | 0            | 0                                      | 0                | 2,400             | 0                          | 0                        | 0                | 0                 | 2                    |
| STA. 29+00.00 TO STA. 41+00.00 | 12.0              | 7,460                                | 6,495                                     | 4,725              | 1,893                        | 2,092                | 0                         | 0            | 0                                      | 0                | 2,400             | 0                          | 0                        | 0                | 0                 | 2                    |
| STA. 41+00.00 TO STA. 53+00.00 | 12.0              | 3,558                                | 15,769                                    | 4,724              | 1,893                        | 2,092                | 0                         | 0            | 0                                      | 0                | 2,400             | 0                          | 0                        | 0                | 0                 | 2                    |
| STA. 53+00.00 TO STA. 65+00.00 | 12.0              | 2,015                                | 19,190                                    | 5,395              | 2,131                        | 2,467                | 0                         | 0            | 0                                      | 851              | 2,093             | 41                         | 0                        | 0                | 0                 | 4                    |
| STA. 65+00.00 TO STA. 77+00.00 | 12.0              | 931                                  | 4,180                                     | 1,647              | 664                          | 740                  | 0                         | 8            | 0                                      | 761              | 761               | 0                          | 1,642                    | 905              | 0                 | 2                    |
| STA. 77+00.00 TO END           | 5.7               | 3,099                                | 3,759                                     | 1,664              | 695                          | 768                  | 0                         | 8            | 0                                      | 168              | 638               | 0                          | 407                      | 0                | 0                 | 0                    |
| PROJECT TOTALS                 | 72.4              | 26,773                               | 60,833                                    | 26,976             | 10,552                       | 11,768               | 2                         | 16.0         | 12                                     | 1,782            | 11,662            | 41                         | 2,049                    | 905              | 1                 | 16                   |

# ROADWAY QUANTITIES (CONT.)

| SUMMARY OF ROADWAY QUANTITIES  |                         |                                         |                                            |                         |                             |                                      |                                 |
|--------------------------------|-------------------------|-----------------------------------------|--------------------------------------------|-------------------------|-----------------------------|--------------------------------------|---------------------------------|
| 540                            | 540                     | 540                                     | 544                                        | 690                     | 690                         | 690                                  | 690                             |
| 2001                           | 2005                    | 2011                                    | 2006                                       | 2006                    | 2024                        | 2038                                 | 2051                            |
| MTL W-BEAM GO FEN (TIM POST)   | TERMINAL ANCHOR SECTION | MTL BEAM GO FEN TRANSITION (THREE-BEAM) | GORAIL END TRT (INST) (WOOD POST) (TY 111) | REMOVAL OF GROUND BOXES | REMOVAL OF SIGNAL HEAD ASSM | REMOVAL OF CONTROL CABINET (GND MNT) | REMOVAL OF SIGNAL POLE ASSEMBLY |
| STA TO STA                     | LF                      | EA                                      | EA                                         | EA                      | EA                          | EA                                   | EA                              |
| BEGINNING TO STA. 17+00.00     | 0                       | 0                                       | 0                                          | 0                       | 6                           | 7                                    | 1                               |
| STA. 17+00.00 TO STA. 29+00.00 | 0                       | 0                                       | 0                                          | 0                       | 0                           | 0                                    | 0                               |
| STA. 29+00.00 TO STA. 41+00.00 | 0                       | 0                                       | 0                                          | 0                       | 0                           | 0                                    | 0                               |
| STA. 41+00.00 TO STA. 53+00.00 | 0                       | 0                                       | 0                                          | 0                       | 0                           | 0                                    | 0                               |
| STA. 53+00.00 TO STA. 65+00.00 | 0                       | 0                                       | 0                                          | 0                       | 0                           | 0                                    | 0                               |
| STA. 65+00.00 TO STA. 77+00.00 | 50                      | 1                                       | 1                                          | 1                       | 0                           | 0                                    | 0                               |
| STA. 77+00.00 TO END           | 50                      | 1                                       | 1                                          | 1                       | 0                           | 0                                    | 0                               |
| PROJECT TOTALS                 | 100                     | 2                                       | 2                                          | 2                       | 6                           | 7                                    | 1                               |

# SIGNING AND STRIPING QUANTITIES

| SUMMARY OF SIGNING & STRIPING QUANTITIES |                                       |                                       |                                    |                                      |                                      |                                 |                                         |                                         |                                         |                                          |                                                  |                                                 |                                         |                                         |
|------------------------------------------|---------------------------------------|---------------------------------------|------------------------------------|--------------------------------------|--------------------------------------|---------------------------------|-----------------------------------------|-----------------------------------------|-----------------------------------------|------------------------------------------|--------------------------------------------------|-------------------------------------------------|-----------------------------------------|-----------------------------------------|
| 644                                      | 644                                   | 644                                   | 644*                               | 658                                  | 658                                  | 658                             | 666                                     | 666                                     | 666                                     | 666                                      | 666                                              | 666                                             | 666                                     | 666                                     |
| 2001                                     | 2004                                  | 2006                                  | 2020                               | 2007                                 | 2260                                 | 2316                            | 2002                                    | 2011                                    | 2035                                    | 2041                                     | 2047                                             | 2053                                            | 2095                                    | 2110                                    |
| INS SM RD SN SUP&M TY 10 BWG(1) SA(P)    | INS SM RD SN SUP&M TY 10 BWG(1) SA(T) | INS SM RD SN SUP&M TY 10 BWG(1) SA(U) | INS SM RD SN SUP&M TY FRP(2) UB(P) | INSTL DEL ASSM (D-SW) TY A (FLX) GND | INSTL DEL ASSM (D-SW) TY S2 (TYC) GF | INSTL OM ASSM (OM-22) (FLX) GND | REFL PAV MKR TY 1 (W) 4" (BRK) (090MIL) | REFL PAV MKR TY 1 (W) 4" (BRK) (090MIL) | REFL PAV MKR TY 1 (W) 8" (SLD) (090MIL) | REFL PAV MKR TY 1 (W) 12" (SLD) (090MIL) | REFL PAV MKR TY 1 (W) 24" (SLD) (ARROW) (090MIL) | REFL PAV MKR TY 1 (W) 24" (SLD) (WORD) (090MIL) | REFL PAV MKR TY 1 (W) 4" (SLD) (090MIL) | REFL PAV MKR TY 1 (Y) 4" (SLD) (090MIL) |
| STA TO STA                               | EA                                    | EA                                    | EA                                 | EA                                   | EA                                   | EA                              | LF                                      | LF                                      | LF                                      | LF                                       | EA                                               | EA                                              | EA                                      | EA                                      |
| BEGINNING TO STA. 29+00.00               | 5                                     | 2                                     | 1                                  | 0                                    | 9                                    | 0                               | 2                                       | 926                                     | 3,735                                   | 906                                      | 0                                                | 6                                               | 6                                       | (4,090)                                 |
| STA. 29+00.00 TO STA. 52+00.00           | 1                                     | 0                                     | 0                                  | 0                                    | 15                                   | 0                               | 2                                       | 1,150                                   | 4,600                                   | 0                                        | 0                                                | 0                                               | 0                                       | 4,600                                   |
| STA. 52+00.00 TO STA. 75+00.00           | 6                                     | 2                                     | 0                                  | 0                                    | 9                                    | 11                              | 3                                       | 1,105                                   | 4,450                                   | 680                                      | 0                                                | 4                                               | 0                                       | 4,285                                   |
| STA. 75+00.00 TO END                     | 2                                     | 0                                     | 0                                  | 4                                    | 1                                    | 9                               | 0                                       | 387                                     | 1,550                                   | 150                                      | 0                                                | 1                                               | 1                                       | 1,410                                   |
| PROJECT TOTALS                           | 14                                    | 4                                     | 1                                  | 4                                    | 34                                   | 20                              | 7                                       | 3,568                                   | 14,335                                  | 1,736                                    | 0                                                | 11                                              | 11                                      | (14,385)                                |

\* FOR DEAD END BARRICADES

# SIGNING AND STRIPING QUANTITIES (CONT.)

| SUMMARY OF SIGNING & STRIPING QUANTITIES |                                        |                                        |                                          |                                          |                                          |                                          |                                          |                        |                        |                              |                                     |
|------------------------------------------|----------------------------------------|----------------------------------------|------------------------------------------|------------------------------------------|------------------------------------------|------------------------------------------|------------------------------------------|------------------------|------------------------|------------------------------|-------------------------------------|
| 666                                      | 666                                    | 666                                    | 666                                      | 666                                      | 666                                      | 666                                      | 666                                      | 672                    | 672                    | 672                          | 5445                                |
| 2131                                     | 2142                                   | 2145                                   | 2153                                     | 2155                                     | 2157                                     | 2178                                     | 2185                                     | 2012                   | 2015                   | 2017                         | 2001                                |
| REFL PAV MKR TY 1 (Y) 24" (SLD) (090MIL) | REF PAV MKR TY 1 (W) 4" (BRK) (090MIL) | REF PAV MKR TY 1 (W) 8" (SLD) (090MIL) | REFL PAV MKR TY 1 (W) 12" (SLD) (090MIL) | REFL PAV MKR TY 1 (W) 24" (SLD) (090MIL) | REFL PAV MKR TY 1 (W) 24" (SLD) (090MIL) | REFL PAV MKR TY 1 (Y) 24" (SLD) (090MIL) | REFL PAV MKR TY 1 (Y) 24" (SLD) (090MIL) | REFL PAV MKR TY 11-A-A | REFL PAV MKR TY 11-C-R | ELIM EXT PAV MKR & MKRS (4") | DEAD END ROADWAY BARRICADE (TY 111) |
| STA TO STA                               | LF                                     | LF                                     | LF                                       | LF                                       | LF                                       | LF                                       | LF                                       | EA                     | EA                     | EA                           | LF                                  |
| BEGINNING TO STA. 29+00.00               | 0                                      | 926                                    | 3,735                                    | 906                                      | 0                                        | 191                                      | 4,090                                    | 0                      | 10                     | 92                           | 740                                 |
| STA. 29+00.00 TO STA. 52+00.00           | 0                                      | 1,150                                  | 4,600                                    | 0                                        | 0                                        | 0                                        | 3,650                                    | 0                      | 0                      | 58                           | 0                                   |
| STA. 52+00.00 TO STA. 75+00.00           | 0                                      | 1,105                                  | 4,450                                    | 680                                      | 0                                        | 0                                        | 4,285                                    | 0                      | 0                      | 89                           | 72                                  |
| STA. 75+00.00 TO END                     | 15                                     | 387                                    | 1,550                                    | 150                                      | 0                                        | 0                                        | 1,510                                    | 0                      | 27                     | 0                            | 0                                   |
| PROJECT TOTALS                           | 15                                     | 3,568                                  | 14,335                                   | 1,736                                    | 0                                        | 191                                      | 14,385                                   | 10                     | 26                     | 265                          | 72                                  |



klotz associates

901 SOUTH HOPE EXPRESSWAY  
BIRMINGHAM, AL 35203-2770  
AUSTIN, TX 78746  
PHONE: (512) 528-5771 FAX: (512) 378-5714  
TELEX: ME 150000 KLOTZ

|     |                     |          |
|-----|---------------------|----------|
| 1   | ADDENDUM #1         | 12-10-10 |
| 2   | UPDATED QUANTITIES  | 4/2011   |
| 3   | INTER. MODIFICATION | 7/2011   |
| 4   | MEDIAN MODIFICATION | 11/2011  |
| REV | DESCRIPTION         | BY DATE  |

# O'CONNOR DRIVE EXTENSION SUMMARY OF ROADWAY QUANTITIES

Project No. 0510.003

Drawn: 0514-05-139

Client: J.B. O'CONNOR DRIVE EXTENSION

Drawn By: \_\_\_\_\_ Checked By: \_\_\_\_\_

Scale: AS SHOWN Sheet: 1 of 3

Date: \_\_\_\_\_



WILLIAMSON  
COUNTY  
1848

klotz associates  
1000 N. Main St., Suite 200  
Hickory, NC 28601  
Phone: (704) 322-8771 Fax: (704) 322-8772  
www.klotzassociates.com

DRAINAGE QUANTITIES

| SUMMARY OF DRAINAGE QUANTITIES    |                                       |                                       |                                       |                                       |                                       |                                       |                                       |                                       |                                       |                                       |                                       |
|-----------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|
| 402                               | 432                                   | 437                                   | 462                                   | 467                                   | 467                                   | 467                                   | 467                                   | 467                                   | 467                                   | 467                                   | 467                                   |
| 2001                              | 2002                                  | 2003                                  | 2004                                  | 2005                                  | 2006                                  | 2007                                  | 2008                                  | 2009                                  | 2010                                  | 2011                                  | 2012                                  |
| RAVINE<br>EXPANSION<br>PROTECTION | SET (TY 1)<br>(15'-5 FT)<br>(HR-5 FT) | SET (TY 1)<br>(15'-5 FT)<br>(HR-5 FT) | SET (TY 1)<br>(15'-5 FT)<br>(HR-5 FT) | SET (TY 1)<br>(15'-5 FT)<br>(HR-5 FT) | SET (TY 1)<br>(15'-5 FT)<br>(HR-5 FT) | SET (TY 1)<br>(15'-5 FT)<br>(HR-5 FT) | SET (TY 1)<br>(15'-5 FT)<br>(HR-5 FT) | SET (TY 1)<br>(15'-5 FT)<br>(HR-5 FT) | SET (TY 1)<br>(15'-5 FT)<br>(HR-5 FT) | SET (TY 1)<br>(15'-5 FT)<br>(HR-5 FT) | SET (TY 1)<br>(15'-5 FT)<br>(HR-5 FT) |
| PROJECT TOTALS                    | 1                                     | 1                                     | 1                                     | 1                                     | 1                                     | 1                                     | 1                                     | 1                                     | 1                                     | 1                                     | 1                                     |

\* LOCATED AT INTERSECTION  
HW 820 AND O'CONNOR DR.

EROSION CONTROL QUANTITIES

| SUMMARY OF EROSION CONTROL QUANTITIES |      |      |      |      |      |      |      |      |      |      |      |
|---------------------------------------|------|------|------|------|------|------|------|------|------|------|------|
| 100                                   | 150  | 160  | 164  | 164  | 164  | 164  | 164  | 164  | 164  | 164  | 164  |
| 2001                                  | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
| DISPOSAL<br>OF WATER<br>WELLS         | HR   | HR   | HR   | HR   | HR   | HR   | HR   | HR   | HR   | HR   | HR   |
| PROJECT TOTALS                        | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    |

EROSION CONTROL QUANTITIES (CONT.)

| SUMMARY OF EROSION CONTROL QUANTITIES |                                 |                                 |                                 |                                 |                                 |                                 |                                 |                                 |                                 |                                 |                                 |
|---------------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|
| 500                                   | 500                             | 500                             | 500                             | 500                             | 500                             | 500                             | 500                             | 500                             | 500                             | 500                             | 500                             |
| 2001                                  | 2002                            | 2003                            | 2004                            | 2005                            | 2006                            | 2007                            | 2008                            | 2009                            | 2010                            | 2011                            | 2012                            |
| HAZARDOUS<br>MATERIAL<br>THREAT       | HAZARDOUS<br>MATERIAL<br>THREAT | HAZARDOUS<br>MATERIAL<br>THREAT | HAZARDOUS<br>MATERIAL<br>THREAT | HAZARDOUS<br>MATERIAL<br>THREAT | HAZARDOUS<br>MATERIAL<br>THREAT | HAZARDOUS<br>MATERIAL<br>THREAT | HAZARDOUS<br>MATERIAL<br>THREAT | HAZARDOUS<br>MATERIAL<br>THREAT | HAZARDOUS<br>MATERIAL<br>THREAT | HAZARDOUS<br>MATERIAL<br>THREAT | HAZARDOUS<br>MATERIAL<br>THREAT |
| PROJECT TOTALS                        | 1                               | 1                               | 1                               | 1                               | 1                               | 1                               | 1                               | 1                               | 1                               | 1                               | 1                               |

BRIDGE QUANTITIES

| SUMMARY OF BRIDGE QUANTITIES          |                                       |                                       |                                       |                                       |                                       |                                       |                                       |                                       |                                       |                                       |                                       |
|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|
| 416                                   | 416                                   | 416                                   | 416                                   | 416                                   | 416                                   | 416                                   | 416                                   | 416                                   | 416                                   | 416                                   | 416                                   |
| 2001                                  | 2002                                  | 2003                                  | 2004                                  | 2005                                  | 2006                                  | 2007                                  | 2008                                  | 2009                                  | 2010                                  | 2011                                  | 2012                                  |
| DRILL SHAFT<br>DRILL SHAFT<br>(18 IN) | DRILL SHAFT<br>DRILL SHAFT<br>(18 IN) | DRILL SHAFT<br>DRILL SHAFT<br>(18 IN) | DRILL SHAFT<br>DRILL SHAFT<br>(18 IN) | DRILL SHAFT<br>DRILL SHAFT<br>(18 IN) | DRILL SHAFT<br>DRILL SHAFT<br>(18 IN) | DRILL SHAFT<br>DRILL SHAFT<br>(18 IN) | DRILL SHAFT<br>DRILL SHAFT<br>(18 IN) | DRILL SHAFT<br>DRILL SHAFT<br>(18 IN) | DRILL SHAFT<br>DRILL SHAFT<br>(18 IN) | DRILL SHAFT<br>DRILL SHAFT<br>(18 IN) | DRILL SHAFT<br>DRILL SHAFT<br>(18 IN) |
| PROJECT TOTALS                        | 1                                     | 1                                     | 1                                     | 1                                     | 1                                     | 1                                     | 1                                     | 1                                     | 1                                     | 1                                     | 1                                     |

O'CONNOR DRIVE  
EXTENSION  
SUMMARY OF ROADWAY  
QUANTITIES

|     |                    |         |
|-----|--------------------|---------|
| 1   | UPDATES QUANTITIES | 6/2011  |
| 2   | DATE: MODIFICATION | 7/2011  |
| 3   | DATE: MODIFICATION | 11/2011 |
| 4   | DATE: MODIFICATION | 11/2011 |
| 5   | DATE: MODIFICATION | 11/2011 |
| 6   | DATE: MODIFICATION | 11/2011 |
| 7   | DATE: MODIFICATION | 11/2011 |
| 8   | DATE: MODIFICATION | 11/2011 |
| 9   | DATE: MODIFICATION | 11/2011 |
| 10  | DATE: MODIFICATION | 11/2011 |
| 11  | DATE: MODIFICATION | 11/2011 |
| 12  | DATE: MODIFICATION | 11/2011 |
| 13  | DATE: MODIFICATION | 11/2011 |
| 14  | DATE: MODIFICATION | 11/2011 |
| 15  | DATE: MODIFICATION | 11/2011 |
| 16  | DATE: MODIFICATION | 11/2011 |
| 17  | DATE: MODIFICATION | 11/2011 |
| 18  | DATE: MODIFICATION | 11/2011 |
| 19  | DATE: MODIFICATION | 11/2011 |
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| 21  | DATE: MODIFICATION | 11/2011 |
| 22  | DATE: MODIFICATION | 11/2011 |
| 23  | DATE: MODIFICATION | 11/2011 |
| 24  | DATE: MODIFICATION | 11/2011 |
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| 26  | DATE: MODIFICATION | 11/2011 |
| 27  | DATE: MODIFICATION | 11/2011 |
| 28  | DATE: MODIFICATION | 11/2011 |
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| 99  | DATE: MODIFICATION | 11/2011 |
| 100 | DATE: MODIFICATION | 11/2011 |





WILLIAMSON  
COUNTY  
10448

klotz associates

301 MAIN STREET, SUITE 200  
BIRMINGHAM, AL 35203  
PHONE: 205-948-7200  
FAX: 205-948-7201  
WWW.KLOTZASSOCIATES.COM

### LEGEND

- MECHANICAL PAVEMENT
- 5" CONCRETE RIP-RAP
- PROP. WIDENING BY OTHERS
- PROP. R.O.W.
- EXIST. R.O.W.
- PROPERTY LINE
- KARST FEATURE
- TREE
- R.O.W. MARKER
- BORE HOLE

NOTES:  
1. DIMENSIONS SHOWN ARE TO FACE OF CURB UNLESS OTHERWISE NOTED.  
2. CONTRACTOR IS RESPONSIBLE FOR VERIFYING LOCATION OF ALL EXISTING UTILITIES BEFORE BEGINNING TYPE OF WORK.

SCALE: 1" = 100' (H)  
SCALE: 1" = 10' (V)

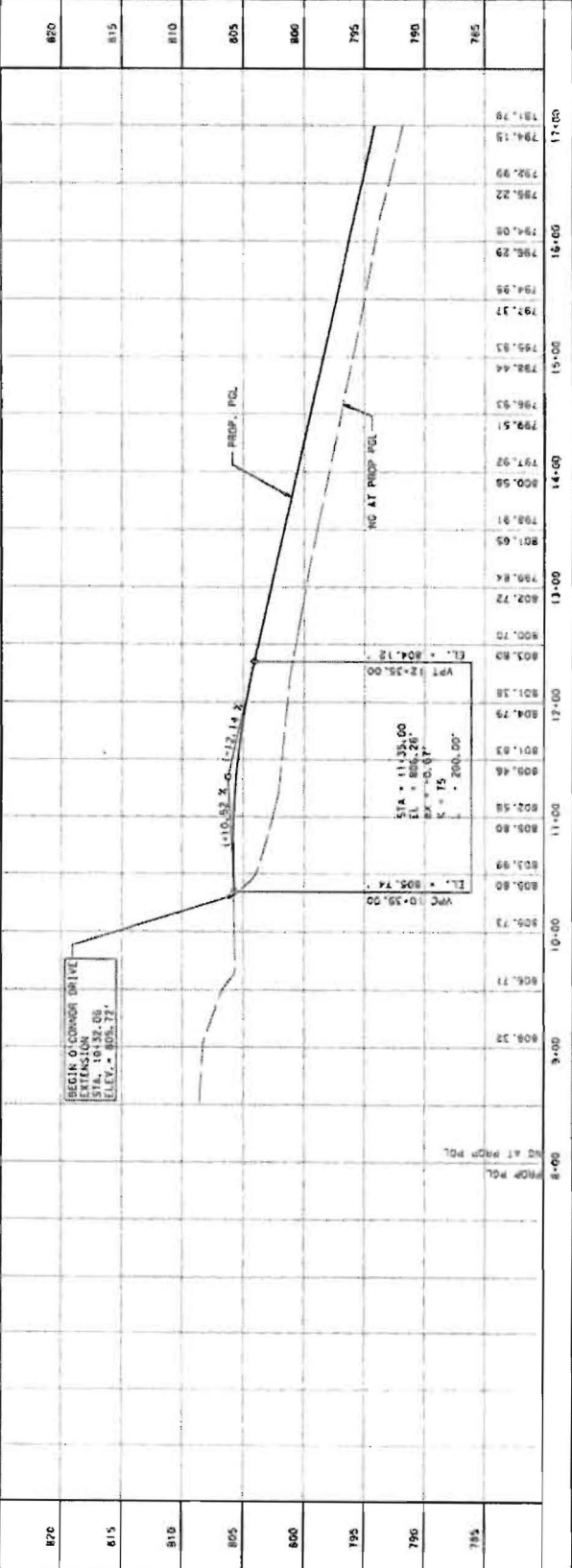
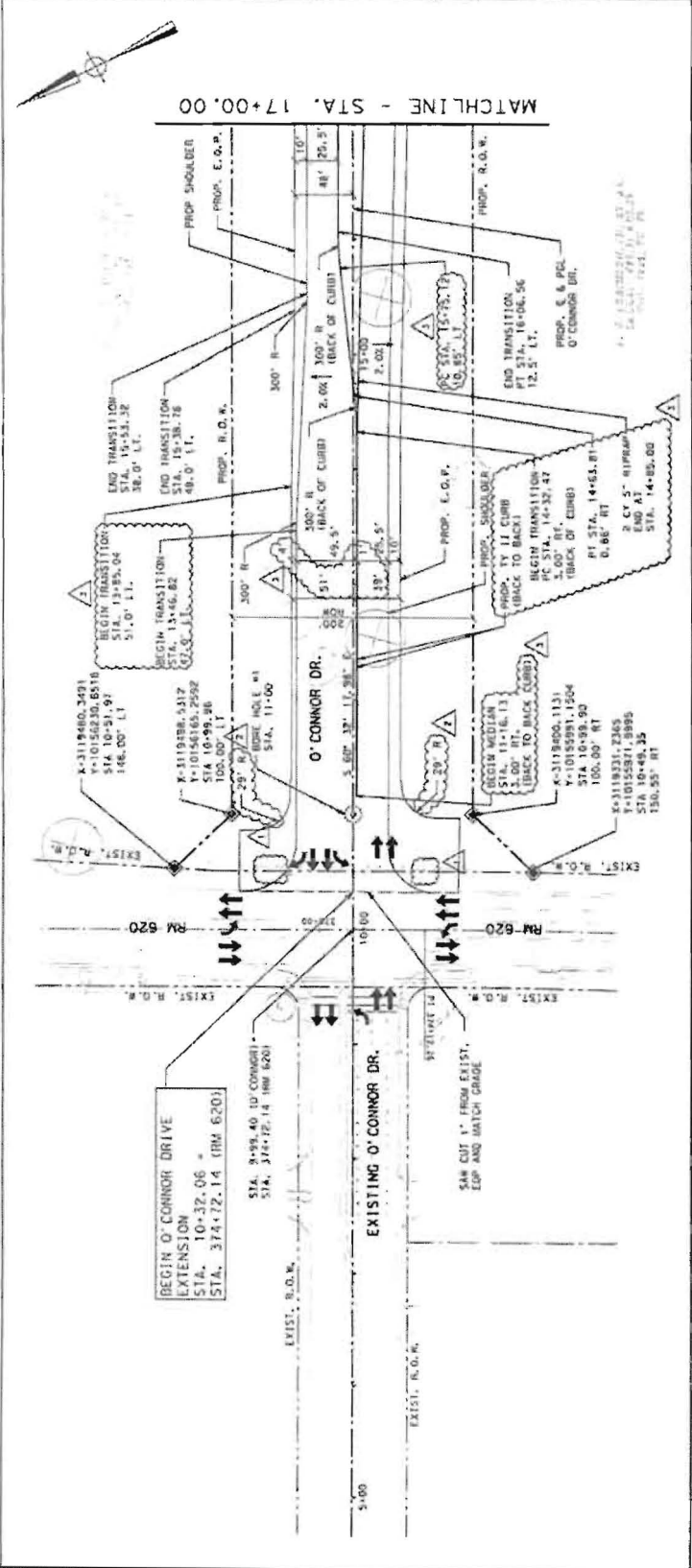
| NO. | DESCRIPTION             | BY  | DATE     |
|-----|-------------------------|-----|----------|
| 1   | STANDARD MODIFICATION   | JAS | 6/20/11  |
| 2   | INVERT MODIFICATION     | JAS | 7/20/11  |
| 3   | MECHANICAL MODIFICATION | JAS | 11/20/11 |



O'CONNOR DRIVE  
EXTENSION  
ROADWAY PLAN  
AND PROFILE

BEGINNING TO STA. 17+00.00

|           |            |             |              |
|-----------|------------|-------------|--------------|
| Sheet No. | 400        | Project No. | 2010-001-001 |
| Date      | 12/27/2011 | Scale       | 1" = 1'      |





**Williamson County**  
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**klutz associates**  
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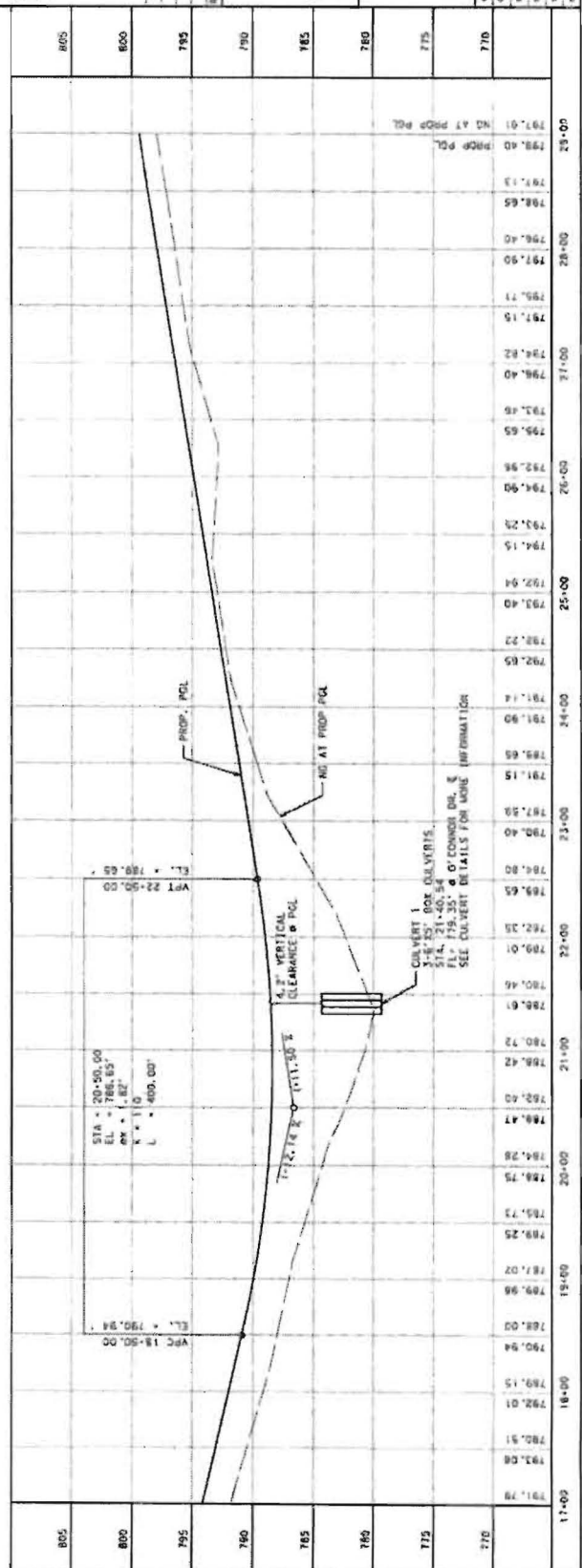
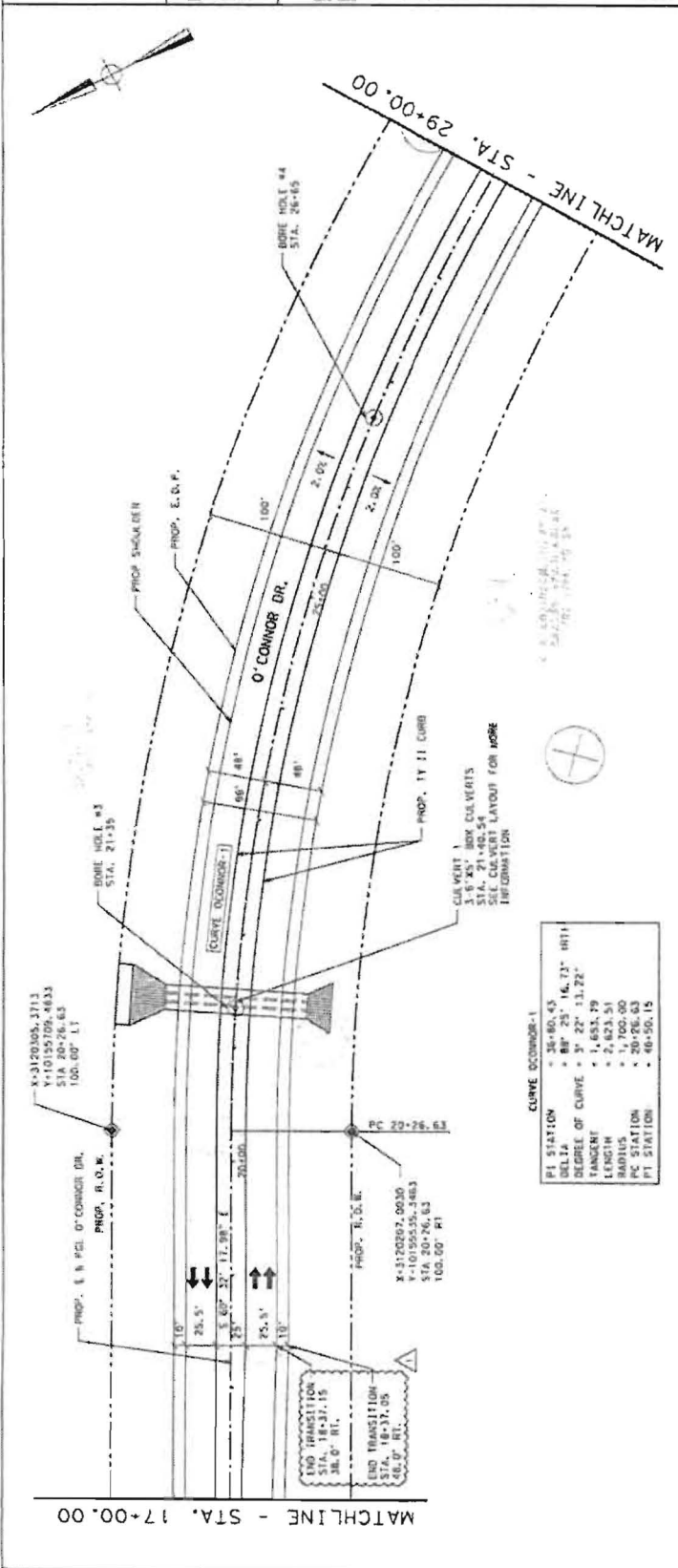
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NOTE: DIMENSIONS SHOWN ARE TO FACE OF CURB UNLESS OTHERWISE NOTED.

2. CONTRACTOR IS RESPONSIBLE FOR VERIFYING LOCATION OF ALL EXISTING UTILITIES PRIOR TO BEGINNING TYPE OF WORK.

SCALE: 1" = 100' (H)  
SCALE: 1" = 10' (V)

1. MEDIAN MODIFICATION L&S 11/7/2011

DATE

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**WILLIAMSON COUNTY**  
1848

**KLITZ ASSOCIATES**  
1001 SOUTH WINDY HOLLOW  
NASHVILLE, TN 37217  
TEL: 615-259-1314  
FAX: 615-259-1315  
WWW.KLITZASSOCIATES.COM

**LEGEND**  
--- PROPOSED WIDENING BY OTHERS  
--- PROPOSED ROW  
--- EXISTING ROW  
--- PROPERTY LINE

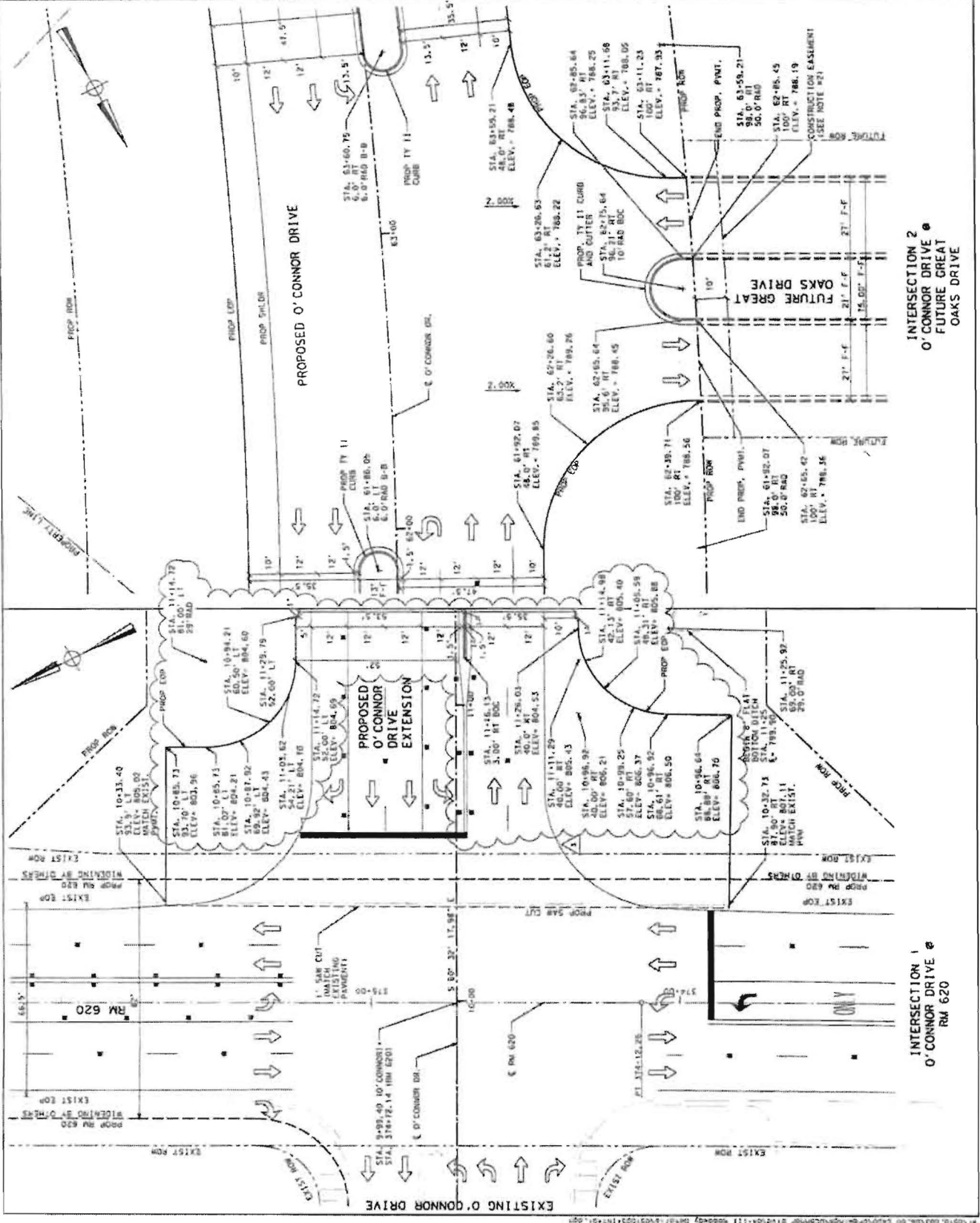
**NOTES:**  
1. DIMENSIONS SHOWN ARE TO FACE OF CURB UNLESS OTHERWISE NOTED.  
2. EASEMENT WILL ONLY BE ALLOTTED IF GREAT OAKS DRIVE IS CONSTRUCTED TO THE R.O.W. OF O'CONNOR.

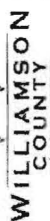
**SCALE:** 1" = 20'  
15' 0' 15'



**O'CONNOR DRIVE EXTENSION**  
**INTERSECTION LAYOUTS**  
RM 620 & GREAT OAKS DRIVE

|             |                  |
|-------------|------------------|
| Project No. | 0510.003         |
| Sheet No.   | 1 of 1           |
| Date        | 12/1/2011        |
| Drawn By    | KLITZ ASSOCIATES |
| Checked By  | KLITZ ASSOCIATES |
| Project No. | 0510.003         |
| Sheet No.   | 1 of 1           |
| Date        | 12/1/2011        |





Klotz Associates

[illegible][illegible]

1. ALL SIGNING, STRIPING AND DELINEATION SHALL BE IN ACCORDANCE WITH THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
2. ALL SIGNS SHALL BE PLACED PER SIGNAGE-02.
3. SEE SIGN DETAIL SHEET FOR DIMENSIONS.

|   | DATE    |
|---|---------|
| 1 | 4/20/11 |
| 2 | 4/20/11 |
| 3 | 4/20/11 |



O'CONNOR DRIVE  
EXTENSION  
SIGNING AND  
STRIPING PLAN  
BEGINNING TO STA. 29+00.00

[illegible]

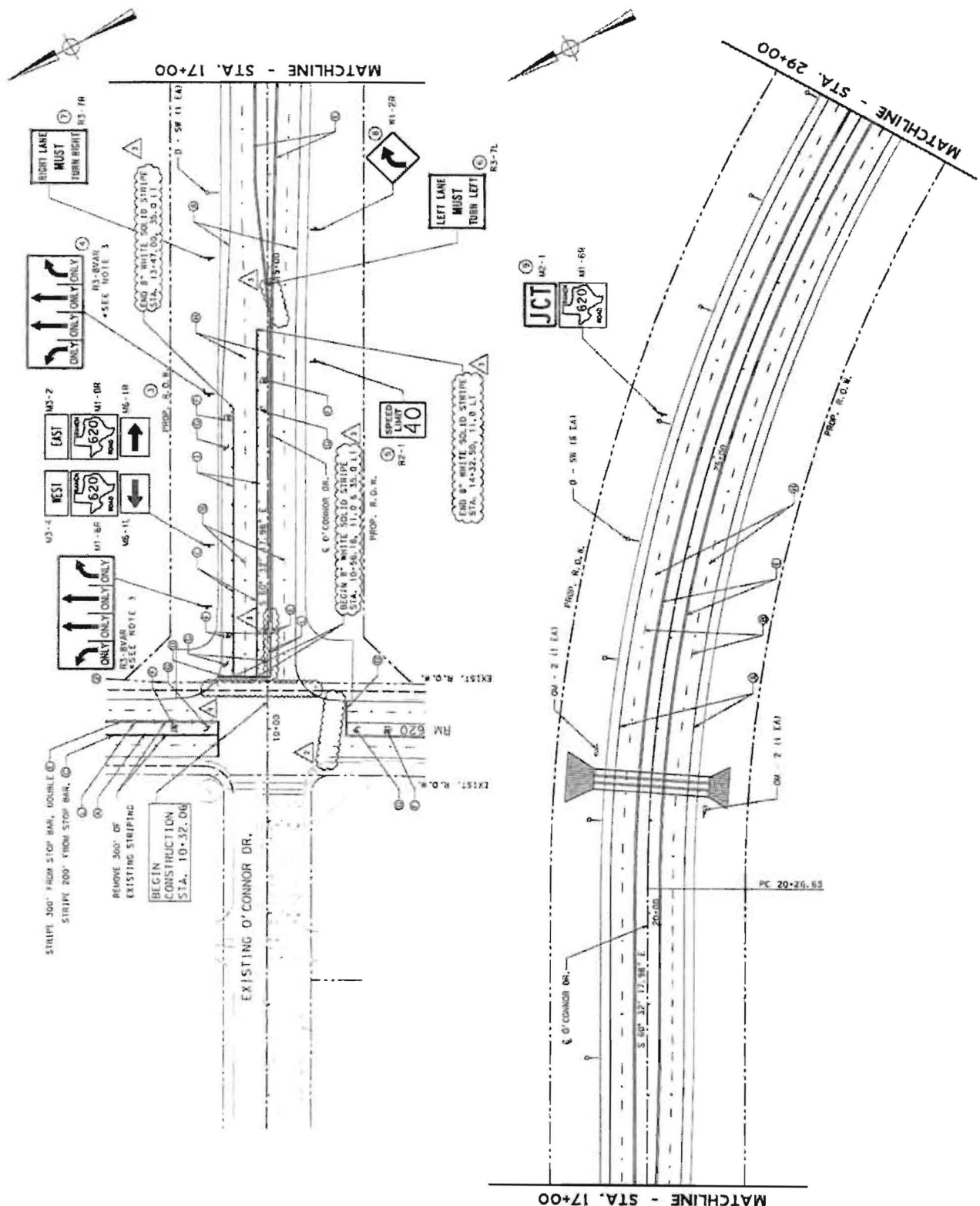
DATE: 0814-05-139

NOISE/1173 JAMES GORDON, JR. AT WORK

| to what | by  |
|---------|-----|
| 500     | 500 |

|        |        |        |
|--------|--------|--------|
| 2.2.1  | 2.2.1  | 2.2.1  |
| 2.2.2  | 2.2.2  | 2.2.2  |
| 2.2.3  | 2.2.3  | 2.2.3  |
| 2.2.4  | 2.2.4  | 2.2.4  |
| 2.2.5  | 2.2.5  | 2.2.5  |
| 2.2.6  | 2.2.6  | 2.2.6  |
| 2.2.7  | 2.2.7  | 2.2.7  |
| 2.2.8  | 2.2.8  | 2.2.8  |
| 2.2.9  | 2.2.9  | 2.2.9  |
| 2.2.10 | 2.2.10 | 2.2.10 |
| 2.2.11 | 2.2.11 | 2.2.11 |
| 2.2.12 | 2.2.12 | 2.2.12 |
| 2.2.13 | 2.2.13 | 2.2.13 |
| 2.2.14 | 2.2.14 | 2.2.14 |
| 2.2.15 | 2.2.15 | 2.2.15 |
| 2.2.16 | 2.2.16 | 2.2.16 |
| 2.2.17 | 2.2.17 | 2.2.17 |
| 2.2.18 | 2.2.18 | 2.2.18 |
| 2.2.19 | 2.2.19 | 2.2.19 |
| 2.2.20 | 2.2.20 | 2.2.20 |
| 2.2.21 | 2.2.21 | 2.2.21 |
| 2.2.22 | 2.2.22 | 2.2.22 |
| 2.2.23 | 2.2.23 | 2.2.23 |
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| 2.2.25 | 2.2.25 | 2.2.25 |
| 2.2.26 | 2.2.26 | 2.2.26 |
| 2.2.27 | 2.2.27 | 2.2.27 |
| 2.2.28 | 2.2.28 | 2.2.28 |
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| 2.2.68 | 2.2.68 | 2.2.68 |
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| 2.2.86 | 2.2.86 | 2.2.86 |
| 2.2.87 | 2.2.87 | 2.2.87 |
| 2.2.88 | 2.2.88 | 2.2.88 |
| 2.2.89 | 2.2.89 | 2.2.89 |
| 2.2.90 | 2.2.90 | 2.2.90 |
| 2.2.91 | 2.2.91 | 2.2.91 |
| 2.2.92 | 2.2.92 | 2.2.92 |
| 2.2.93 | 2.2.93 | 2.2.93 |
| 2.2.94 | 2.2.94 | 2.2.94 |
| 2.2.95 | 2.2.95 | 2.2.95 |
| 2.2.96 | 2.2.96 | 2.2    |

|           |           |
|-----------|-----------|
| 10/1/2011 | 10/1/2011 |
|-----------|-----------|







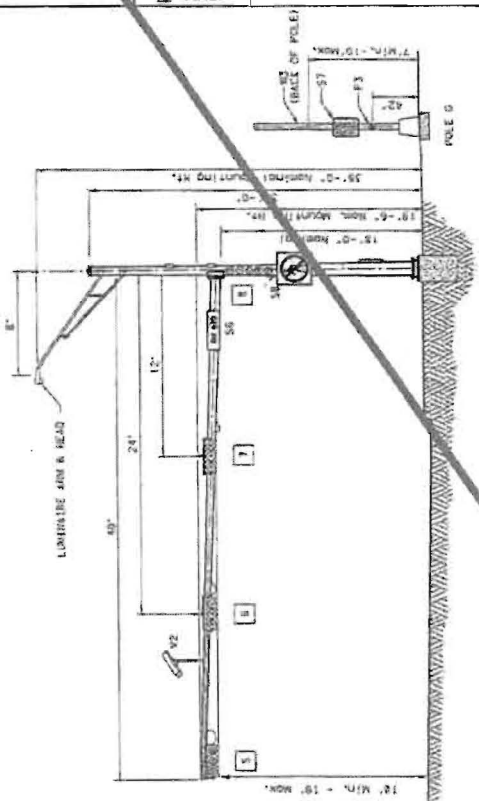
WILLIAMSON  
COUNTY  
TAMU

klutz associates  
10000 N. W. 10th Ave.  
Suite 100  
Fort Lauderdale, FL 33322  
Phone: 954-571-1111  
Fax: 954-571-1112  
E-mail: klutz@klutz.com



James E. Hester  
Professional Engineer  
State of Tennessee  
No. 37256  
O'Connor Drive  
Extension  
Signal Elevation  
Layout

|              |                          |
|--------------|--------------------------|
| Project Name | O'Connor Drive Extension |
| Project No.  | 0004-001-128             |
| Drawn By     | JES                      |
| Checked By   | JES                      |
| Date         | 11/18/2010               |
| Scale        | 1" = 10'                 |



NOT USED

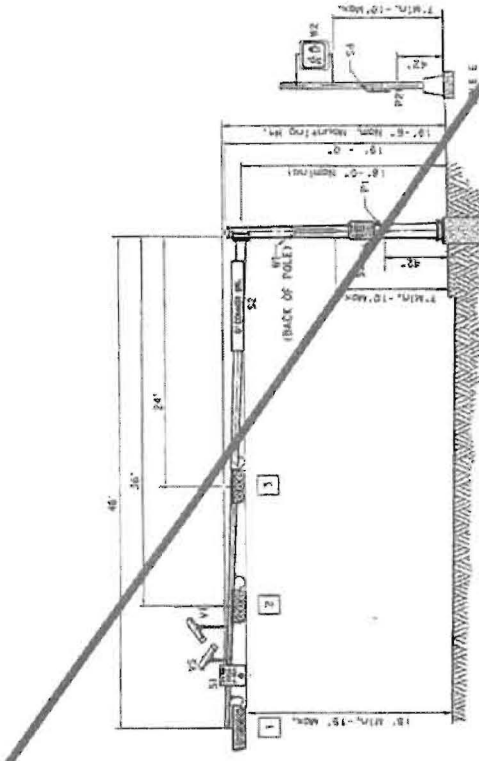
WESTBOUND  
O'CONNOR DR.

STREET NAME SIGNS

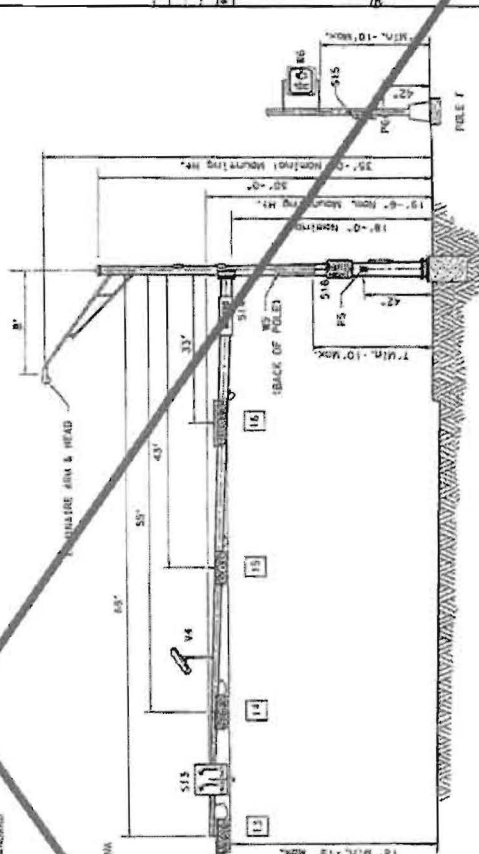
O'CONNOR DR.

RM 620

PER TUDOT STANDARD

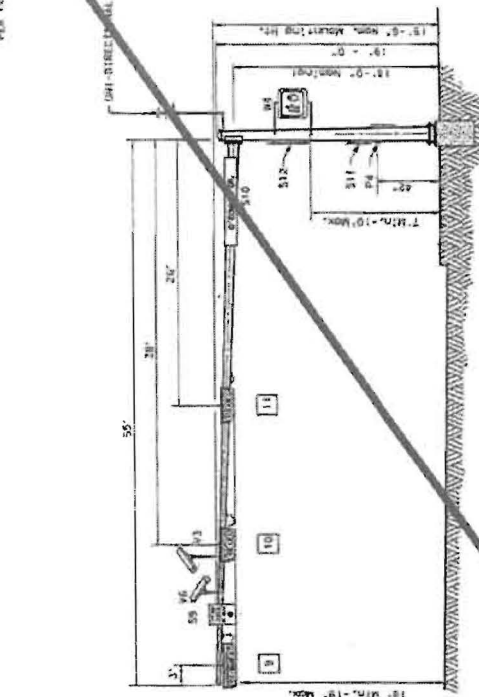


SOUTHBOUND  
RM 620



EASTBOUND  
O'CONNOR DR.

NOT TO SCALE



NORTHBOUND  
RM 620

[illegible]

| NO. | DESCRIPTION             | BY | DATE |
|-----|-------------------------|----|------|
|     | <i>Found on back of</i> |    |      |

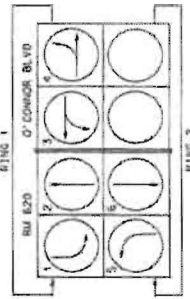


**O'CONNOR DRIVE  
EXTENSION  
ELECTRICAL SCHEDULE**

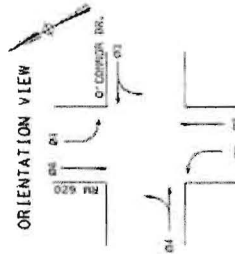
|                      |                            |
|----------------------|----------------------------|
| Project Engineer No. | 0516-093                   |
| Date                 | 0918-09-19                 |
| Client I.E.          | D'CONDOM BELIVE ELEVATIONS |
| Drawn By             | JOSIS                      |
| CHECKED BY           | JOSEPH                     |
| Scale                | AS SHOWN                   |
| Total                | 159                        |

| CABLE TERMINATION CHART |                                             |                                             |                                             |                                             |                                             |       |
|-------------------------|---------------------------------------------|---------------------------------------------|---------------------------------------------|---------------------------------------------|---------------------------------------------|-------|
| CABLE 1                 | CABLE 2                                     | CABLE 3                                     | CABLE 4                                     | CABLE 5                                     | CABLE 6                                     |       |
| WRITE<br>COLOR          | HEAD 1<br>HEAD 1.5<br>TO CONTR.<br>7 CONTR. | HEAD 2.5<br>HEAD 3<br>TO CONTR.<br>5 CONTR. | HEAD 4.5<br>HEAD 5<br>TO CONTR.<br>5 CONTR. | HEAD 6<br>HEAD 6.5<br>TO CONTR.<br>5 CONTR. | HEAD 7.5<br>HEAD 8<br>TO CONTR.<br>5 CONTR. |       |
| BLACK                   | SH1<br>PHASE 01                             | SH2.3V<br>PHASE 04                          | SH3.5V<br>PHASE 05                          | SH4.5V<br>PHASE 07                          | SH7.5V<br>PHASE 02                          |       |
| WHITE                   | SIGNAL<br>COMMON                            | SIGNAL<br>COMMON                            | SIGNAL<br>COMMON                            | SIGNAL<br>COMMON                            | SIGNAL<br>COMMON                            |       |
| RED                     | SH1R<br>PHASE 03                            | SH2.3R<br>PHASE 06                          | SH3.5R<br>PHASE 07                          | SH4.5R<br>PHASE 08                          | SH7.5R<br>PHASE 09                          |       |
| GREEN                   | SH1G<br>PHASE 05                            | SH2.3G<br>PHASE 08                          | SH3.5G<br>PHASE 09                          | SH4.5G<br>PHASE 02                          | SH7.5G<br>PHASE 07                          |       |
| ORANGE                  | SH1V<br>PHASE 01                            | SH2.3V<br>PHASE 04                          | SH3.5V<br>PHASE 05                          | SH4.5V<br>PHASE 07                          | SH7.5V<br>PHASE 02                          | SPACE |
| BLUE                    | SH1B<br>PHASE 01                            | SH2.3B<br>PHASE 04                          | SH3.5B<br>PHASE 05                          | SH4.5B<br>PHASE 07                          | SH7.5B<br>PHASE 02                          | SPACE |
| WHITE /<br>BLACK        | SIGNAL<br>COMMON                            | SIGNAL<br>COMMON                            | SIGNAL<br>COMMON                            | SIGNAL<br>COMMON                            | SIGNAL<br>COMMON                            |       |

### PHASING DIAGRAM



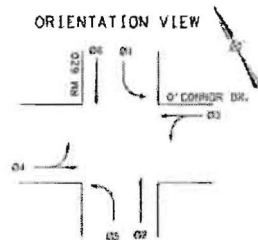
ORIENTATION VIEW



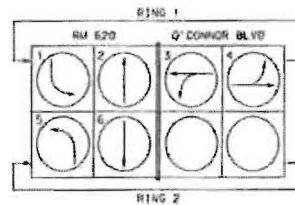
## SIGNAL HEADS



| CABLE TERMINATION CHART |                                         |                                             |                                             |                                                  |                                         |                                             |
|-------------------------|-----------------------------------------|---------------------------------------------|---------------------------------------------|--------------------------------------------------|-----------------------------------------|---------------------------------------------|
| WIRE COLOR              | CABLE 1<br>HEAD 1<br>TO CNTRL<br>7 CNDR | CABLE 2<br>HEAD 2 & 3<br>TO CNTRL<br>5 CNDR | CABLE 3<br>HEAD 4 & 5<br>TO CNTRL<br>5 CNDR | CABLE 4<br>HEAD 6, 10 & 11<br>TO CNTRL<br>5 CNDR | CABLE 5<br>HEAD 8<br>TO CNTRL<br>7 CNDR | CABLE 6<br>HEAD 7 & 9<br>TO CNTRL<br>5 CNDR |
| BLACK                   | SH1Y<br>PHASE 05                        | SH2, 3Y<br>PHASE 06                         | SH4, 5Y<br>PHASE 03                         | SH10, 11Y<br>PHASE 04                            | SH6Y<br>PHASE 07                        | SH7, 8Y<br>PHASE 02                         |
| WHITE                   | SIGNAL<br>COMMON                        | SIGNAL<br>COMMON                            | SIGNAL<br>COMMON                            | SIGNAL<br>COMMON                                 | SIGNAL<br>COMMON                        | SIGNAL<br>COMMON                            |
| RED                     | SH1R<br>PHASE 05                        | SH2, 3R<br>PHASE 06                         | SH4, 5R<br>PHASE 03                         | SH10, 11R<br>PHASE 04                            | SH6R<br>PHASE 07                        | SH7, 8R<br>PHASE 02                         |
| GREEN                   | SH1G<br>PHASE 05                        | SH2, 3G<br>PHASE 06                         | SH4, 5G<br>PHASE 03                         | SH10, 11G<br>PHASE 04                            | SH6G<br>PHASE 07                        | SH7, 8G<br>PHASE 02                         |
| ORANGE                  | SH1Y ARW<br>PHASE 01                    | SPARE                                       | SPARE                                       | SPARE                                            | SH6Y ARW<br>PHASE 05                    | SPARE                                       |
| BLUE                    | SH1G ARW<br>PHASE 01                    |                                             |                                             |                                                  | SH6G ARW<br>PHASE 05                    |                                             |
| WHITE / BLACK           | SPARE                                   |                                             |                                             |                                                  | SPARE                                   |                                             |



PHASING DIAGRAM



REVISED PLAN SHEET  
TO REPLACE PERMANENT  
SIGNAL SHEET

SIGNAL HEADS





**WILLIAMSON COUNTY**  
1848

**klotz associates**

101 SOUTH WINDY EXPRESSWAY  
BIRMINGHAM, AL 35202  
205.975.1100  
Fax: 205.975.1101  
www.klotzassoc.com

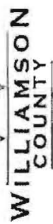
|     |                     |                         |        |
|-----|---------------------|-------------------------|--------|
| 1   | SIGNAL MODIFICATION | JES                     | 4/2011 |
| 2   | TEMP SIGNAL         | JES                     | 7/2011 |
| REV | DESCRIPTION         | BY                      | DATE   |
|     |                     | <i>James E. Schmitt</i> |        |



**O'CONNOR DRIVE  
EXTENSION  
ELECTRICAL SCHEDULE**

|                                       |                |           |  |
|---------------------------------------|----------------|-----------|--|
| Project No. 0516.003                  |                |           |  |
| Drawn 0516-03-129                     |                |           |  |
| Project Name O'CONNOR DRIVE EXTENSION |                |           |  |
| Drawn By JES                          | Checked By JAG |           |  |
| Scale 1/8" = 1'-0"                    | Sheet 1 of 1   | Total 159 |  |



klotz  associates

800-368-2828  
 800-368-2828  
 800-368-2828  
 800-368-2828

Wolfs:

200' H.O.W. WIDTH (17M) FOR  
THE FULL LENGTH OF THE PROJECT.  
O'COMMON & LOCATED IN CENTER OF  
200' H.O.W. CORRIDOR. 11M+

SCALE: 1" = 20' (H)  
SCALE: 1" = 20' (V)

[illegible]

O'CONNOR DRIVE  
EXTENSION  
CROSS SECTIONS

0516 601

No. 0011-075-139

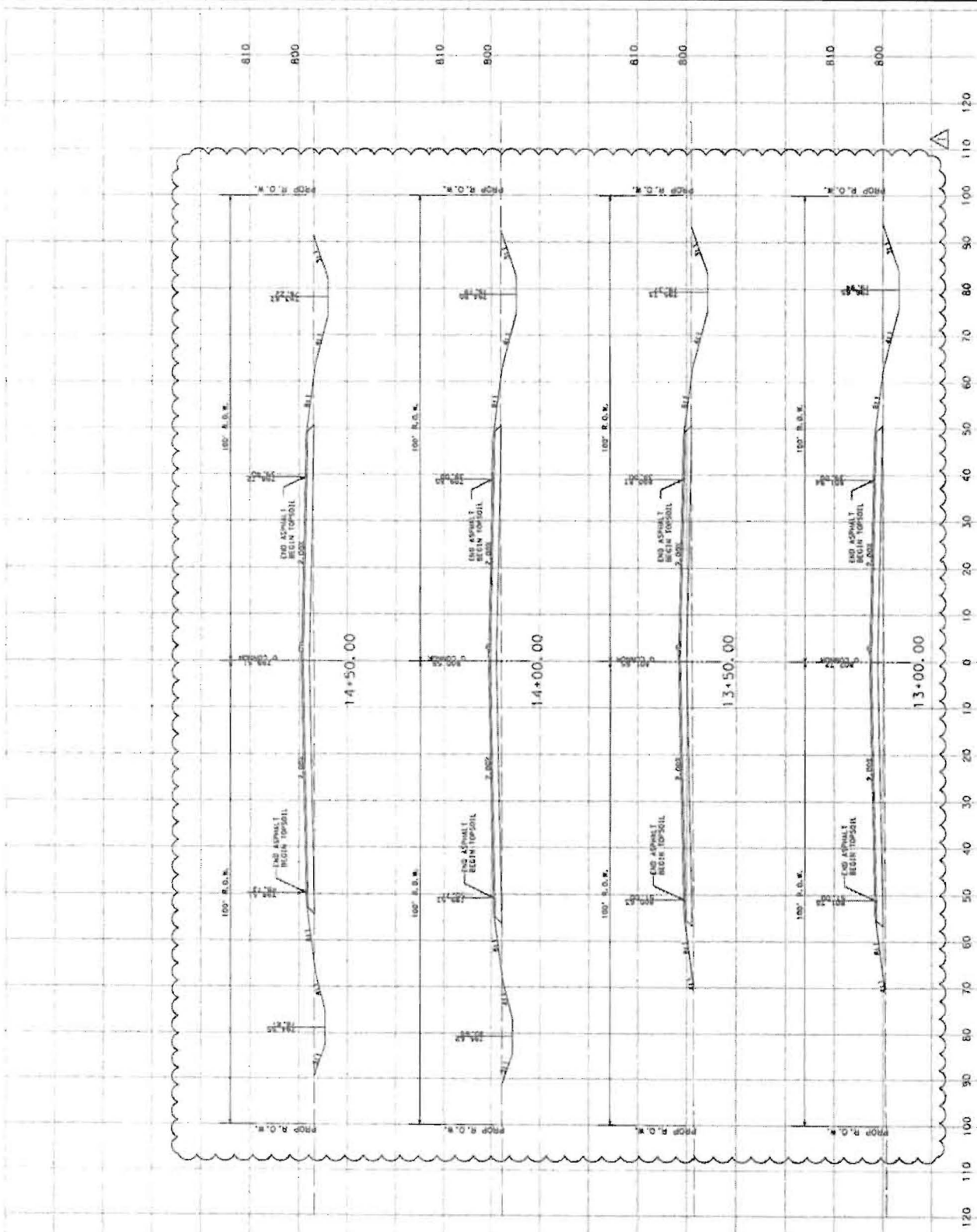
1982-0014-00-130

© 1999 U.S. GPO

**Figure 8**

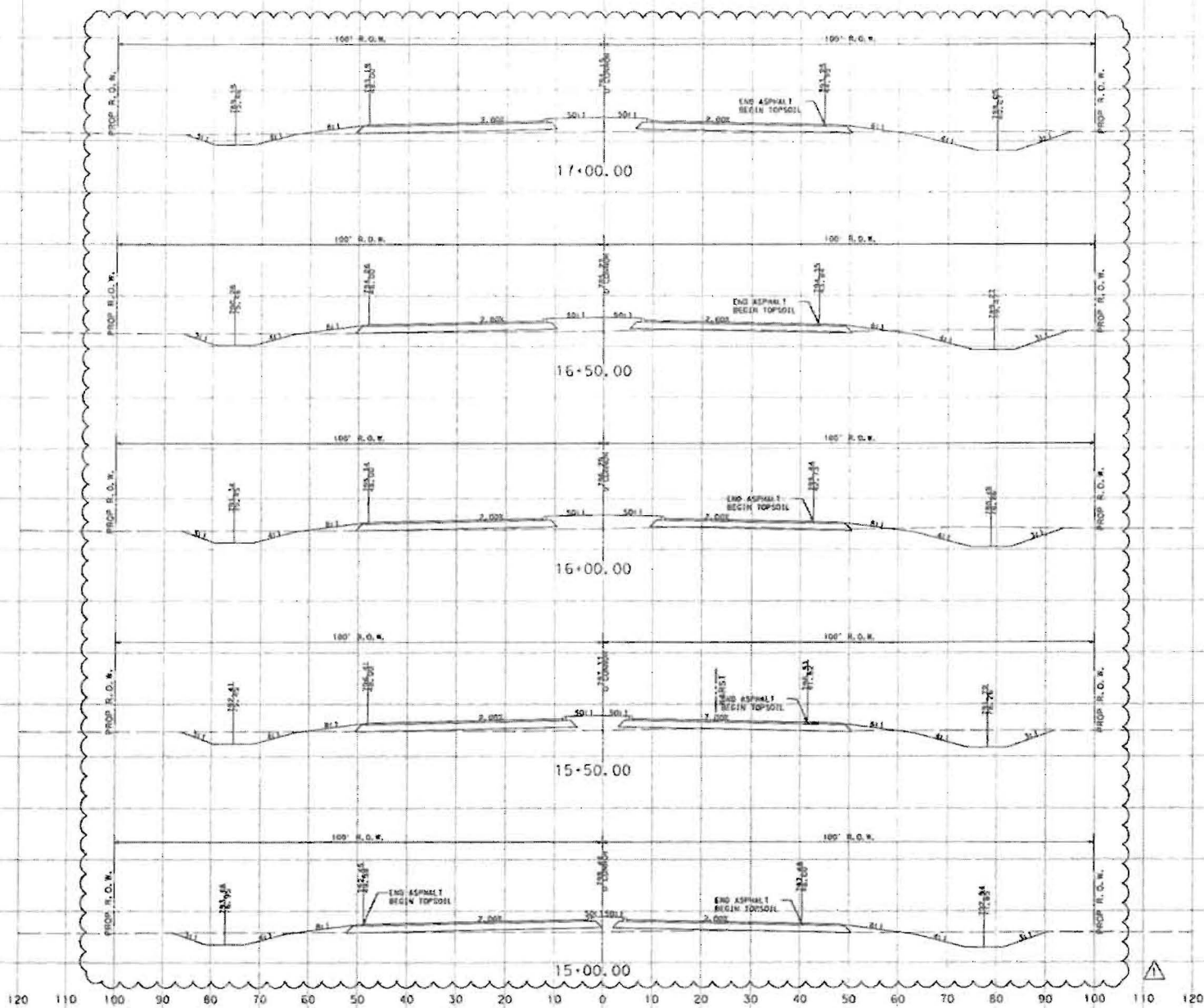
Answer: AS, Jackson

Europe



12/1/2011 4:57:13 PM #10510:02308.00 CAD07C0A=2NGR02000000 B1VCL12-X000V061001XS\*0031E175.0001

17-11-2011 10:18:07 AM  
 C:\Users\jgibson\Documents\17-11-2011 10:18:07 AM\17-11-2011 10:18:07 AM.dwg



**WILLIAMSON  
COUNTY**  
1848

klotz associates

801 SOUTH WOODS EXPEDITION  
 SUITE 200  
 AUSTIN, TX 78748  
 PHONE (512) 328-8111 FAX (512) 328-8114

**NOTES**

200' R.O.W. WIDTH (TYP) FOR  
 THE FULL LENGTH OF THE PROJECT.  
 O'CONNOR IS LOCATED IN CENTER OF  
 200' R.O.W. CORRIDOR. (TYP)

SCALE: 1" = 20' (H)  
 SCALE: 1" = 20' (V)

|   |                          |         |
|---|--------------------------|---------|
| 1 | MEDIAN MODIFICATIONS (S) | 11/2011 |
|---|--------------------------|---------|

| REV | DESCRIPTION | BY | DATE |
|-----|-------------|----|------|
|     |             |    |      |



**O'CONNOR DRIVE  
EXTENSION  
CROSS SECTIONS**

Main Project No. 0510.003

CLM 0814-05-139

Drawn A.S. O'CONNOR DRIVE EXTENSION

|           |            |           |
|-----------|------------|-----------|
| Drawn By  | Checked By | Sheet No. |
| AS GIBSON |            | 3 of 38   |
| Date      |            | 192       |



WILLIAMSON  
COUNTY  
1848

klutz associates

801 SOUTH MAPLE STREET  
BIRMINGHAM, AL 35202  
PHONE: (205) 228-5174 FAX: (205) 228-5176

SCALE: 1" = 20' (H)  
SCALE: 1" = 20' (V)  
10 0 10

1 MEDIAN MODIFICATIONS JES 11/2001

REV DESCRIPTION BY DATE



O'CONNOR DRIVE  
EXTENSION  
CROSS SECTIONS

PLAN SHEET NO. 001E-003

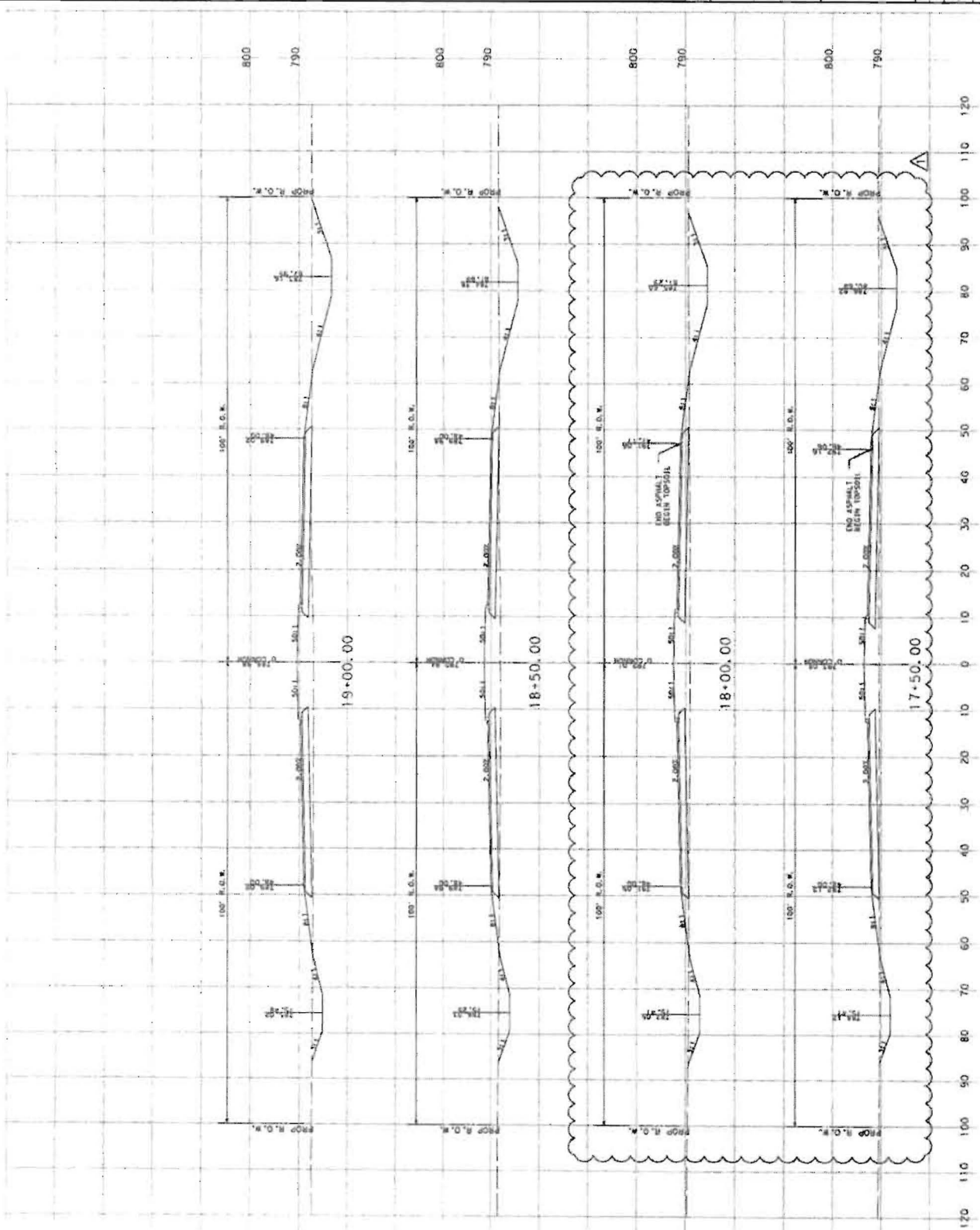
PROJECT: O'CONNOR DRIVE EXTENSION

DESIGNED BY: JES

CHECKED BY: JES

DATE: 4/1/98

SHEET NO. 193



REC'D 8-26-11

Receive

AUG 26 2011

HNTB Corpora  
Round Rock,

**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.  $32975.50 \times 1.05 = \$34624.28$
2.  $30596.75 \times 1.05 = \$32126.58$
3.  $750.00 = \$750.00$

Specs only allow one 5% markup.

P.O. Box 760  
Cedar Park, Texas 78610-0760



(512) 258-1025  
Fax (512) 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 be 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'Connor 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.

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

Materials will be as follows:

|                                                     |              |
|-----------------------------------------------------|--------------|
| Structural & Steel Traffic Signal Pole Invoice + 5% | \$ 29,415.83 |
| CMC REBAR Foundation Steel + 5%                     | \$ 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

PO. BOX 760  
Cedar Park, Texas 78630-0760



(512) 258-1021  
Fax (512) 258-1021

Project: 11WC906  
County: Williamson  
Highway: O'Connor Drive @ Great Oaks Drive  
RE: 681 TEMP SIGNAL JUSTIFICATION

8/24/2011

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

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  
Project No : Williamson County

Control No :  
Working Days : 0

Engineer/Architect:

Phone No :  
Letting Date : 12/15/2010

Cedar Park TX 78630-0000

Contact Pete Smith  
Phone : 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         | 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 : 28,015.08

### 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 quantities 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 receipt of order or approved drawings.

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

25% TO 7003.21  
\$35,018.85  
5% 1400.75  
\$29,415.83

### 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.

Used this  
Quote



# 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

## Please Remit Payments To:

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

Invoice No / Date: 90543758 06/03/2  
Salesorder/Ref No:  
Customer : 3017076  
Job : R/9923700123  
Salesperson :

**BILL TO PARTY** 3017076

G Carter Construction Co Inc  
P.O Box 760  
Cedar Park, TX 78630-0760

**SHIP TO PARTY** 3017076

G Carter Construction Co Inc  
805 N Bell Blvd  
Cedar Park, TX 78613-2212

| SHIP-VIA                                                                                                 |             | INCO-TERMS           |           | PAYMENT TERMS      |         |
|----------------------------------------------------------------------------------------------------------|-------------|----------------------|-----------|--------------------|---------|
| Road / Truck                                                                                             |             | CPT Cedar Park       |           | Net Due in 30 Days |         |
| ITEM                                                                                                     | DESCRIPTION | QTY-SHPD             | PRICE     | AMOUNT             |         |
| Reinforcing Steel by MISCSALE per CC AWLK ,Rel 5 LIST - JOB #236 PO# BOL# 404884 Del# 573654             |             |                      |           |                    |         |
| Plain Round                                                                                              | 420 Black   | 512.00 LB            | 53.35/CWT | 1347.66            | 273.1   |
| Rebar                                                                                                    | 420 Black   | 2,014.00 LB          | 53.35/CWT |                    | 1,074.5 |
| Reinforcing Steel by MISCSALE per CC AWLM ,Rel 6 LIST - JOB #233 PO# BOL# 404884 Del# 573657             |             |                      |           |                    |         |
| Plain Round                                                                                              | 420 Black   | 922.00 LB            | 53.35/CWT | 2581.67            | 491.5   |
| Rebar                                                                                                    | 420 Black   | 3,917.00 LB          | 53.35/CWT |                    | 2,089.5 |
| Reinforcing Steel by MISCSALE per CC AWLO ,Rel 7 LIST - ADDITIONAL PO# BOL# 404884 Del# 573661           |             |                      |           |                    |         |
| Plain Round                                                                                              | 420 Black   | 51.00 LB             | 53.35/CWT | 2351               | 27.2    |
| Rebar                                                                                                    | 420 Black   | 40.00 LB             | 53.35/CWT | 48.55              | 21.3    |
| <div>5%<br/>\$2581.67<br/>129.08<br/>\$2710.75</div> <div>25%<br/>2581.67<br/>645.42<br/>\$3227.09</div> |             |                      |           |                    |         |
| REBAR Weight: 7,456.00 LB                                                                                |             | Line Totals:         |           | \$3,977.           |         |
|                                                                                                          |             | Tax:                 |           | \$0.               |         |
|                                                                                                          |             | Freight:             |           | \$0.               |         |
|                                                                                                          |             | Total Invoice Value: |           | \$3,977.           |         |

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

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Received  
DEC 12 2011  
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 11WC905  
 ESTM S. Cardwell  
 ITEM SUMMARY

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

BID QUANTITY: 400  
 UNIT: LF

UNIT COST \$ 17.67  
 UN:TS/MAN HOUR 2.00

| ACTIVITY         | QUANTITY | DESCRIPTION            | UNIT | LABOR    | PERMANENT<br>MATERIAL | EQUIPMENT<br>RENTAL | MISC<br>EXPENSE | SUBCONTRACT | TOTAL    | UNIT<br>COST | MAN<br>HOURS | UNITS<br>/MnHr |
|------------------|----------|------------------------|------|----------|-----------------------|---------------------|-----------------|-------------|----------|--------------|--------------|----------------|
| 1                | 400      | TY II CURB (HAND POUR) | LF   | 3,190.00 | 822.00                | 1,001.00            | 300.00          | 0.00        | 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       | MAN HOURS      |
| DIRECT UNIT COST |          |                        |      | 7.98     | 2.06                  | 2.50                | 0.75            | 0.00        | 13.28    |              | 0.500        | MnHr/Un        |
| TAXES ON LABOR   |          |                        |      | 55.00%   | 1,754.50              | -                   | -               | -           | 1,754.50 |              |              |                |
| 529-2002         |          | Change Order           |      | 4,944.50 | 822.00                | 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 -

ESTIMATED CHANGE \$ 7.864.45  
 ESTIMATED UNIT PRICE \$ 19.66

PROJECT 11WC906  
ESTM SC  
ACTIVITY# 1

BID ITEM: 529-2002  
DESCRIPTION: Change Order  
ACTIVITY: TY II CURB (HAN D POUR)  
QUANTITY: 400  
UNIT: LF

BID QUANTITY: 400  
UNIT: LF

PRODUCTION: 1.00 UNITS/HOUR  
DURATION: 1.00 HOURS

REMARKS: 1)  
2)  
3)

| CODE                   | NUMBER   | DESCRIPTION           | Hours  | LABOR    | MATERIAL | EQUIPMENT | MISC     | SUBCONTRACT | TOTAL    | EXTENSION |
|------------------------|----------|-----------------------|--------|----------|----------|-----------|----------|-------------|----------|-----------|
| EQUIPMENT              | 1        | F250 TRUCK            | 30.00  | -        | -        | 28.04     | -        | -           | 28.04    | 841.00    |
|                        | 1        | UTILITY TRAILER       | 30.00  | -        | -        | 3.49      | -        | -           | 3.49     | 105.00    |
|                        | 1        | GENERATOR             | 15.00  | -        | -        | 3.67      | -        | -           | 3.67     | 55.00     |
|                        |          |                       | 0.00   | -        | -        | -         | -        | -           | -        | -         |
|                        |          |                       | 0.00   | -        | -        | -         | -        | -           | -        | -         |
|                        |          |                       | 0.00   | -        | -        | -         | -        | -           | -        | -         |
|                        |          |                       | 0.00   | -        | -        | -         | -        | -           | -        | -         |
|                        |          |                       | 0.00   | -        | -        | -         | -        | -           | -        | -         |
|                        |          |                       | 0.00   | -        | -        | -         | -        | -           | -        | -         |
| TOTAL                  | 1        | UNITS/EQUIP HOUR      | 75.00  | -        | -        | 1,000.95  | -        | -           | 35.20    | 1,001.00  |
| LABOR                  | 1        | FORMAN                | 30.00  | 31.25    | -        | -         | -        | -           | 31.25    | 938.00    |
|                        | 3        | FORM BUILDERS         | 85.00  | 13.00    | -        | -         | -        | -           | 13.00    | 1,105.00  |
|                        | 3        | CONCRETE FINISHERS    | 85.00  | 13.50    | -        | -         | -        | -           | 13.50    | 1,148.00  |
|                        |          |                       | 0.00   | -        | -        | -         | -        | -           | -        | 125.00    |
|                        |          |                       | 0.00   | -        | -        | -         | -        | -           | -        | -         |
|                        |          |                       | 0.00   | -        | -        | -         | -        | -           | -        | -         |
|                        |          |                       | 0.00   | -        | -        | -         | -        | -           | -        | -         |
|                        |          |                       | 0.00   | -        | -        | -         | -        | -           | -        | -         |
|                        |          |                       | 0.00   | -        | -        | -         | -        | -           | -        | -         |
|                        |          |                       | 0.00   | -        | -        | -         | -        | -           | -        | -         |
|                        |          |                       | 0.00   | -        | -        | -         | -        | -           | -        | -         |
| TOTAL                  | 2        | UNITS/MAN HOUR        | 200.00 | 3,190.00 | -        | -         | -        | -           | 57.75    | 3,316.00  |
| INCIDENTAL             | QUANTITY | DESCRIPTION           | UNIT   |          |          |           |          |             |          |           |
|                        | 12       | CL A CONCRETE W/YIELD | CY     | -        | 68.50    | -         | -        | -           | 68.50    | 822.00    |
|                        | 400      | FORM LUMBER/SUPPLIES  | LF     | -        | -        | -         | 0.75     | -           | 0.75     | 300.00    |
|                        |          |                       |        | -        | -        | -         | -        | -           | -        | -         |
|                        |          |                       |        | -        | -        | -         | -        | -           | -        | -         |
|                        |          |                       |        | -        | -        | -         | -        | -           | -        | -         |
|                        |          |                       |        | -        | -        | -         | -        | -           | -        | -         |
|                        |          |                       |        | -        | -        | -         | -        | -           | -        | -         |
|                        |          |                       |        | -        | -        | -         | -        | -           | -        | -         |
|                        |          |                       |        | -        | -        | -         | -        | -           | -        | -         |
| TOTAL INCIDENTAL COSTS |          |                       |        | -        | 822.00   | -         | 300.00   | -           | 1,122.00 | 1,122.00  |
| TOTAL                  |          |                       |        | 275.00   | 3,190.00 | 822.00    | 1,000.95 | 300.00      | 5,313.00 | 5,439.00  |
| UNIT COST              |          |                       |        |          | 7.975    | 2.055     | 2.502375 | 0.75        | 13.28    | 5,313.00  |



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         | Gasoline | Cab Type   | Conventional |
| Axle Configuration | 4X2      | Ton Rating | 3/4          |
| Horsepower         | 285.0    |            |              |

### Blue Book Rates

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

|                             | Ownership Costs |                 |                |               | 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        |
| <b>Adjustments</b>          |                 |                 |                |               |                              |                |
| 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%)            | -               | -               | -              | -             |                              |                |
| Operating (100%)            |                 |                 |                |               | -                            |                |
| <b>Total:</b>               | <b>\$579.25</b> | <b>\$160.41</b> | <b>\$40.10</b> | <b>\$6.24</b> | <b>\$24.75</b>               | <b>\$28.04</b> |

### Rate Element Allocation

| Element                   | Percentage | Value         |
|---------------------------|------------|---------------|
| Depreciation (ownership)  | 58%        | \$377.00 / mo |
| Overhaul (ownership)      | 27%        | \$175.50 / mo |
| CFC (ownership)           | 5%         | \$32.50 / mo  |
| Indirect (ownership)      | 10%        | \$65.00 / mo  |
| Fuel (operating) @ \$3.84 | 84%        | \$20.79 / 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:

All

### Configuration for Non-Tilt Deck Utility Trailers

|                 |     |                 |       |
|-----------------|-----|-----------------|-------|
| Number of Axles | 2   | Number of Tires | 4     |
| Hitch Type      | Tow | Capacity        | 6.0 t |

### Blue Book Rates

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

|                             | Ownership Costs |                |                |               | 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        |
| <b>Adjustments</b>          |                 |                |                |               |                              |               |
| 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%)            |                 |                |                |               |                              |               |
| <b>Total:</b>               | <b>\$279.44</b> | <b>\$78.41</b> | <b>\$20.02</b> | <b>\$3.33</b> | <b>\$1.90</b>                | <b>\$3.49</b> |

### 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 available 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.

|                          | Ownership Costs |                |               |               | 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        |
| <b>Adjustments</b>       |                 |                |               |               |                              |               |
| Region (Texas:<br>86.6%) | (\$15.41)       | (\$4.29)       | (\$1.07)      | (\$0.13)      |                              |               |
| Model Year (100%)        | -               | -              | -             | -             |                              |               |
| Ownership (100%)         | -               | -              | -             | -             |                              |               |
| Operating (100%)         |                 |                |               |               | -                            |               |
| <b>Total:</b>            | <b>\$99.59</b>  | <b>\$27.71</b> | <b>\$6.93</b> | <b>\$0.87</b> | <b>\$3.10</b>                | <b>\$3.67</b> |

### 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)      | 11%        | \$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



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

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

Page 1 of

| 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.   |
| 11/23/11 | 8619458 | FIBER35 | PSI FIBRILLATED     | BAG | 10.00    | 14.00 | 0.00 | 140.   |
| 11/23/11 | 8619477 | TXDOT2A | 5.0 SK 30% FA TX    | CY  | 10.00    | 54.50 | 0.00 | 545.   |
| 11/23/11 | 8619477 | FIBER35 | PSI FIBRILLATED     | BAG | 10.00    | 14.00 | 0.00 | 140.   |
| 11/23/11 | 8619492 | TXDOT2A | 5.0 SK 30% FA TX    | CY  | 10.00    | 54.50 | 0.00 | 545.   |
| 11/23/11 | 8619492 | FIBER35 | PSI FIBRILLATED     | BAG | 10.00    | 14.00 | 0.00 | 140.   |

POB \_\_\_\_\_  
OB NO. 1013-110v.  
SUB ☒ EQ RENT ☒ OTHER ☐  
BY [Signature]

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

| Invoice Number | Invoice Date | Customer Number | Invoice Amount |
|----------------|--------------|-----------------|----------------|
| 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.