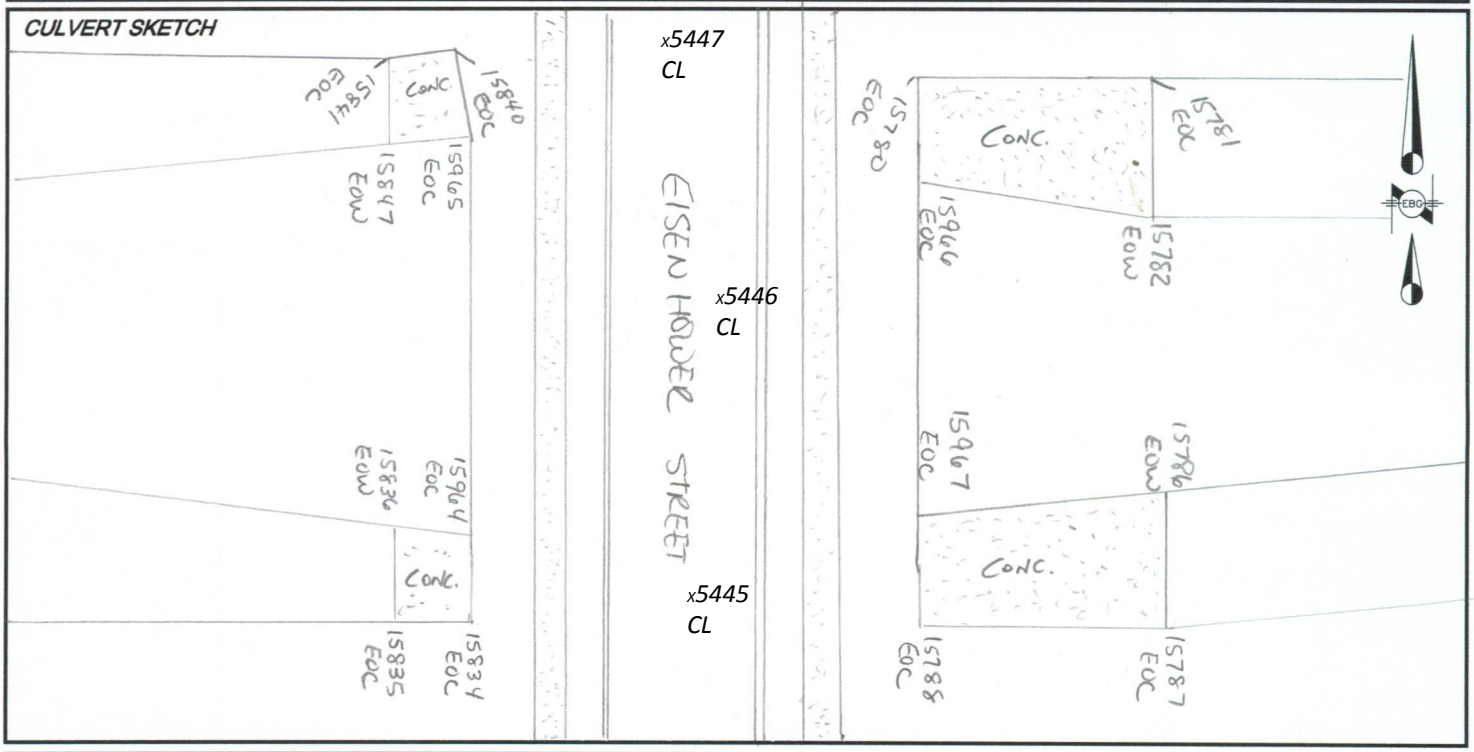
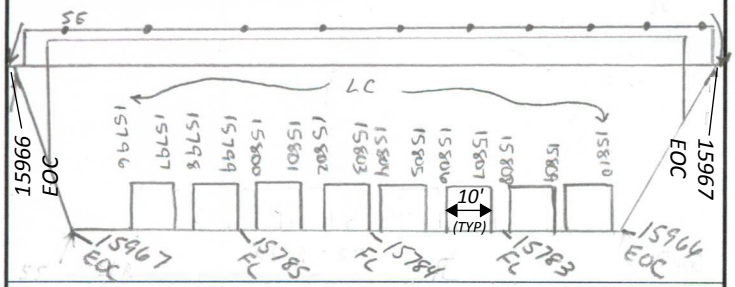
# TYPICAL CUVERT FEMA DATA SHEET EISENHOWER STREET BRIDGE

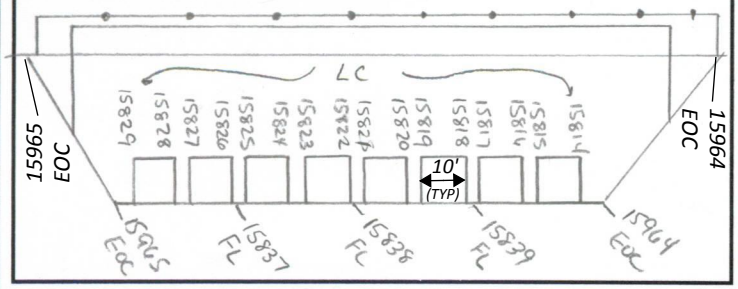
## CULVERT SKETCH




## CULVERT PROFILE UPSTREAM




## CULVERT PROFILE DOWNSTREAM



OVERTOPPING PHOTO

PARTY CHIEF NAME: R. RUBIO
CREW MEMBER NAME:
SURVEY EQUIPMENT USED: VRS GPS/CONVENTIONAL
HORIZONTAL DATUM: NAD83 NORTH CENTRAL ZONE (4202)
VERTICAL DATUM: NAVD88

NOTE: HORIZONTAL AND VERTICAL VALUES ARE BASED ON THE CITY OF CARROLLTON'S PUBLISHED GPS NETWORK. ALL VAULES SHOWN ARE AT GRID WITH A GRID TO SURFACE PROJECT SCALE FACTOR OF 1.0001442859.

| | |
|---|---|
| PROJECT NAME: | LOWER DUDLEY |
| STREAM NAME: | LOWER DUDLEY |
| LOCATION/ROAD NAME: | EISENHOWER STREET |
| CITY: | CARROLLTON |
| COUNTY: | DENTON |
| STATE: | TEXAS |


EBG ENGINEERING, LLC
CONSULTING ENGINEERS & SURVEYORS
10300 N CENTRAL EXPWY, STE 160
DALLAS, TEXAS 75231
PHONE: (214) 321-3861
FAX: (214)321-2131


| | |
|---|---|
| PAGE 1 OF | 5 |
| SURVEY DATE: | 4/5/12 |
| JOB NO.: | 11028 |
| DC FILE: | 120405LD C1 |
| DRAWN BY: | RR |
| REVIEWED BY: | MWC |

# LOWER DUDLEY – EISENHOWER STREET BRIDGE

DOWNSTREAM PHOTO

DOWNSTREAM FACE PHOTO

# LOWER DUDLEY – EISENHOWER STREET BRIDGE

UPSTREAM PHOTO

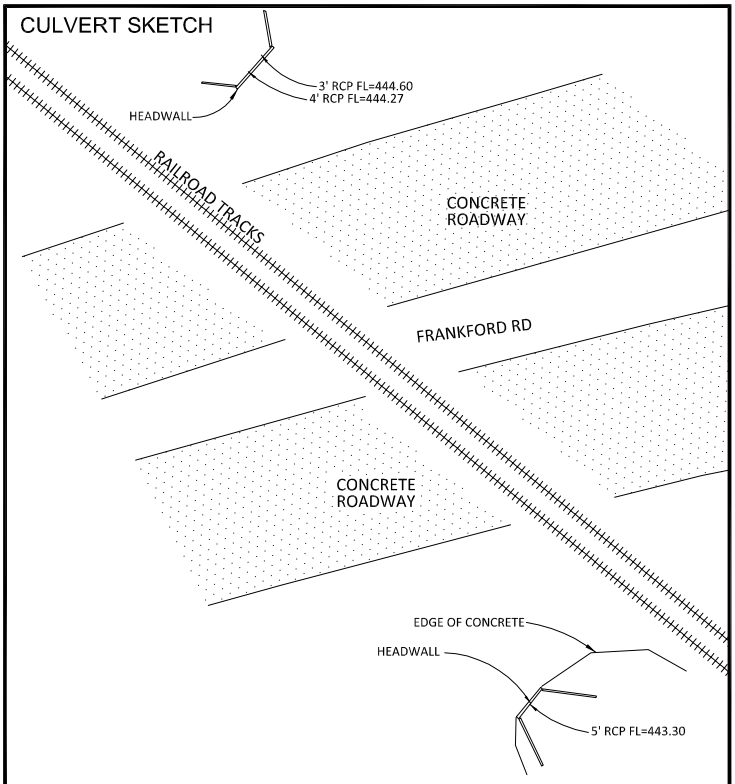
UPSTREAM FACE PHOTO

| EISENHOWER STREET BRIDGE | | | | |
|---|---|---|---|---|
| POINT # | NORTHING | EASTING | ELEVATION | CODE |
| 15777 | 7050583.418 | 2451310.156 | 457.835 | EISENHOWER - SE |
| 15778 | 7050557.297 | 2451311.231 | 455.971 | EISENHOWER - SLT |
| 15779 | 7050515.242 | 2451311.683 | 448.047 | EISENHOWER - SLB |
| 15780 | 7050554.861 | 2451211.870 | 456.259 | EISENHOWER - EOC |
| 15781 | 7050556.089 | 2451271.720 | 456.337 | EISENHOWER - EOC |
| 15782 | 7050516.858 | 2451271.986 | 447.732 | EISENHOWER - EOC |
| 15783 | 7050517.071 | 2451211.663 | 445.078 | EISENHOWER - FL |
| 15784 | 7050473.836 | 2451212.343 | 445.072 | EISENHOWER - FL |
| 15785 | 7050442.028 | 2451212.870 | 445.096 | EISENHOWER - FL |
| 15786 | 7050447.083 | 2451272.187 | 447.604 | EISENHOWER - EOC |
| 15787 | 7050407.162 | 2451273.230 | 456.390 | EISENHOWER - EOC |
| 15788 | 7050405.258 | 2451213.980 | 456.369 | EISENHOWER - EOC |
| 15789 | 7050439.334 | 2451301.280 | 448.473 | EISENHOWER - FL |
| 15790 | 7050461.077 | 2451314.404 | 448.035 | EISENHOWER - SLB |
| 15791 | 7050411.771 | 2451314.367 | 457.398 | EISENHOWER - SLT |
| 15792 | 7050406.614 | 2451319.859 | 457.684 | EISENHOWER - SE |
| 15793 | 7050417.338 | 2451214.122 | 456.784 | EISENHOWER - TOP DECK |
| 15794 | 7050480.419 | 2451213.119 | 456.766 | EISENHOWER - TOP DECK |
| 15795 | 7050543.462 | 2451212.064 | 456.749 | EISENHOWER - TOP DECK |
| 15796 | 7050437.765 | 2451213.751 | 453.588 | EISENHOWER - LC |
| 15797 | 7050448.043 | 2451213.587 | 453.588 | EISENHOWER - LC |
| 15798 | 7050448.683 | 2451213.570 | 453.589 | EISENHOWER - LC |
| 15799 | 7050458.729 | 2451213.434 | 453.588 | EISENHOWER - LC |
| 15800 | 7050459.405 | 2451213.438 | 453.587 | EISENHOWER - LC |
| 15801 | 7050469.460 | 2451213.289 | 453.579 | EISENHOWER - LC |
| 15802 | 7050470.082 | 2451213.270 | 453.578 | EISENHOWER - LC |
| 15803 | 7050480.191 | 2451213.142 | 453.575 | EISENHOWER - LC |
| 15804 | 7050480.826 | 2451213.144 | 453.575 | EISENHOWER - LC |
| 15805 | 7050490.899 | 2451212.958 | 453.572 | EISENHOWER - LC |
| 15806 | 7050491.507 | 2451212.980 | 453.572 | EISENHOWER - LC |
| 15807 | 7050501.574 | 2451212.776 | 453.568 | EISENHOWER - LC |
| 15808 | 7050502.163 | 2451212.821 | 453.568 | EISENHOWER - LC |
| 15809 | 7050512.213 | 2451212.626 | 453.628 | EISENHOWER - LC |
| 15810 | 7050522.905 | 2451212.528 | 453.531 | EISENHOWER - LC |
| 15811 | 7050416.516 | 2451154.166 | 456.609 | EISENHOWER - TOP DECK |
| 15812 | 7050479.525 | 2451153.327 | 456.810 | EISENHOWER - TOP DECK |
| 15813 | 7050542.665 | 2451152.475 | 456.699 | EISENHOWER - TOP DECK |
| 15814 | 7050437.061 | 2451153.897 | 453.283 | EISENHOWER - LC |
| 15815 | 7050447.195 | 2451153.771 | 453.280 | EISENHOWER - LC |
| 15816 | 7050447.855 | 2451153.760 | 453.255 | EISENHOWER - LC |
| 15817 | 7050457.918 | 2451153.627 | 453.254 | EISENHOWER - LC |
| 15818 | 7050458.538 | 2451153.626 | 453.254 | EISENHOWER - LC |
| 15819 | 7050468.572 | 2451153.472 | 453.325 | EISENHOWER - LC |
| 15820 | 7050469.228 | 2451153.497 | 453.326 | EISENHOWER - LC |
| 15821 | 7050479.301 | 2451153.326 | 453.388 | EISENHOWER - LC |

| | | | | |
|---|---|---|---|---|
| 15822 | 7050479.970 | 2451153.310 | 453.388 | EISENHOWER - LC |
| 15823 | 7050489.964 | 2451153.176 | 453.396 | EISENHOWER - LC |
| 15824 | 7050490.568 | 2451153.163 | 453.397 | EISENHOWER - LC |
| 15825 | 7050500.574 | 2451153.019 | 453.408 | EISENHOWER - LC |
| 15826 | 7050501.272 | 2451153.010 | 453.409 | EISENHOWER - LC |
| 15827 | 7050511.355 | 2451152.858 | 453.421 | EISENHOWER - LC |
| 15828 | 7050511.939 | 2451152.849 | 453.422 | EISENHOWER - LC |
| 15829 | 7050522.024 | 2451152.708 | 453.320 | EISENHOWER - LC |
| 15830 | 7050405.338 | 2451115.226 | 456.790 | EISENHOWER - SLT |
| 15831 | 7050435.887 | 2451118.217 | 449.340 | EISENHOWER - SLB |
| 15832 | 7050441.804 | 2451118.970 | 448.732 | EISENHOWER - SLT |
| 15833 | 7050442.386 | 2451118.741 | 447.042 | EISENHOWER - EOW |
| 15834 | 7050405.452 | 2451154.176 | 456.243 | EISENHOWER - EOC |
| 15835 | 7050405.457 | 2451134.560 | 456.654 | EISENHOWER - EOC |
| 15836 | 7050435.343 | 2451134.140 | 447.359 | EISENHOWER - EOC |
| 15837 | 7050441.828 | 2451154.721 | 444.968 | EISENHOWER - FL |
| 15838 | 7050472.629 | 2451154.349 | 445.497 | EISENHOWER - FL |
| 15839 | 7050516.977 | 2451153.680 | 444.963 | EISENHOWER - FL |
| 15840 | 7050553.507 | 2451146.293 | 456.253 | EISENHOWER - EOC |
| 15841 | 7050553.628 | 2451132.715 | 456.582 | EISENHOWER - EOC |
| 15842 | 7050521.947 | 2451132.862 | 446.934 | EISENHOWER - EOC |
| 15843 | 7050514.059 | 2451095.488 | 447.211 | EISENHOWER - EOW |
| 15844 | 7050515.854 | 2451095.700 | 448.091 | EISENHOWER - SLT |
| 15845 | 7050521.351 | 2451095.759 | 449.105 | EISENHOWER - SLB |
| 15846 | 7050557.447 | 2451098.370 | 456.986 | EISENHOWER - SLT |
| 15847 | 7050564.348 | 2451098.689 | 457.880 | EISENHOWER - SE |
| 15964 | 7050429.095 | 2451153.699 | 447.022 | EISENHOWER - EOW |
| 15965 | 7050530.035 | 2451152.277 | 447.021 | EISENHOWER - EOW |
| 15966 | 7050530.218 | 2451212.655 | 446.985 | EISENHOWER - EOW |
| 15967 | 7050431.077 | 2451214.194 | 447.006 | EISENHOWER - EOW |
| 5445 | 7050420.713 | 2451190.511 | 455.795 | EISENHOWER - CL |
| 5446 | 7050480.345 | 2451189.317 | 456.243 | EISENHOWER - CL |
| 5447 | 7050544.421 | 2451186.469 | 456.574 | EISENHOWER - CL |

# FRANKFORD ROAD SECTION B CULVERT DATASHEET

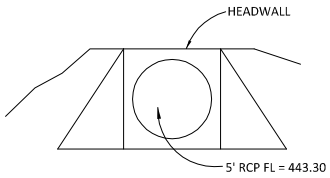
## CULVERT SKETCH




## UPSTREAM FACE PHOTO

## UPSTREAM CHANNEL PHOTO

## CULVERT PROFILE UPSTREAM




## DOWNSTREAM FACE PHOTO

## OVERTOPPING PHOTO

## DOWNSTREAM CHANNEL PHOTO

| | |
|---|---|
| PARTY CHIEF NAME: | RR |
| CREW MEMEBER NAME: | JW |
| SURVEY EQUIPMENT USED: | VRS GPS/CONVENTIONAL |
| HORIZONTAL DATUM: | NAD83 NORTH CENTRAL ZONE (4202) |
| VERTICAL DATUM: | NAVD88 |

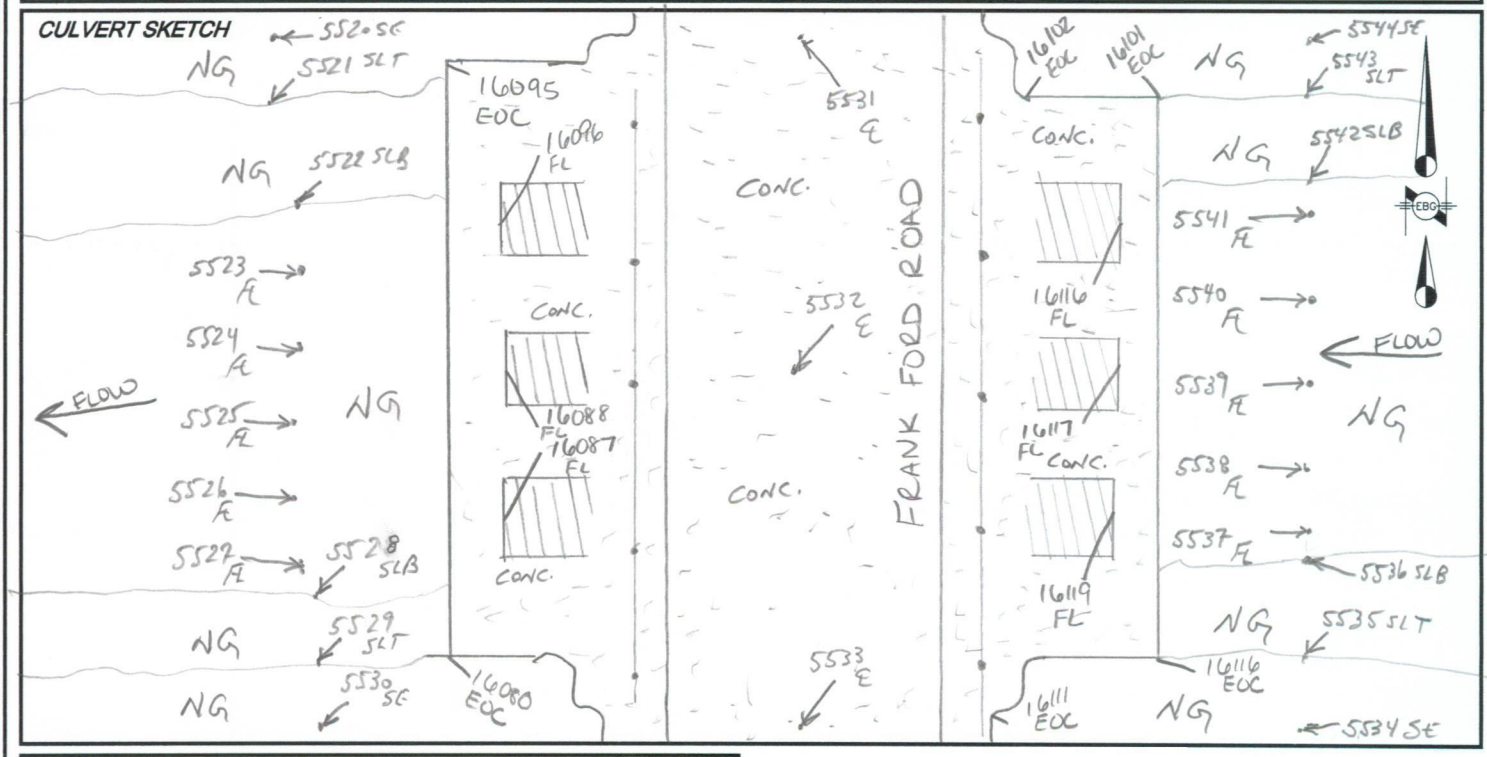
NOTE: HORIZONTAL & VERTICAL VALUES ARE BASED ON THE CITY OF CARROLLTON'S PUBLISHED GPS NETWORK. ALL VALUES SHOWN ARE AT THE SURFACE PROJECT SCALE FACTOR OF 1.0001442859.

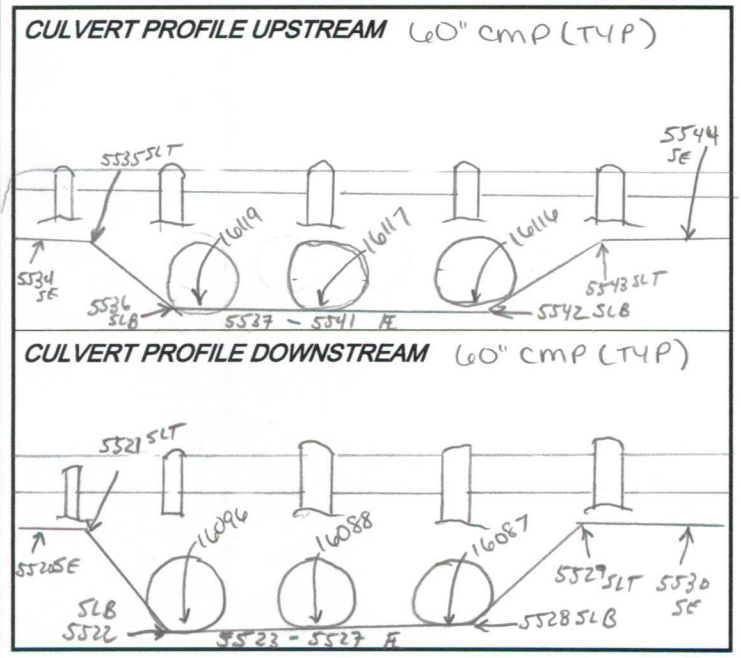
| | |
|---|---|
| PROJECT NAME: | LOWER DUDLEY |
| STREAM NAME: | LOWER DUDLEY |
| LOCATION/ROAD NAME: | SH121/I-35E/FRANKFORD |
| CITY: | CARROLLTON |
| COUNTY: | DENTON |
| STATE: | TEXAS |


EBG ENGINEERING, LLC
CONSULTING ENGINEERS & SURVEYORS
10300 N CENTRAL EXPWY, STE 160
DALLAS, TEXAS 75231
PHONE: (214) 321-3861
FAX: (214)321-2131


| | |
|---|---|
| PAGE 1 OF | 1 |
| SURVEY DATE: | 03/09/12 |
| JOB NO.: | 11028 |
| DC FILE: | |
| DRAWN BY: | LJG |
| REVIEWED BY: | MWC |

# TYPICAL CUVERT FEMA DATA SHEET FRANKFORD ROAD SECTION D



OVERTOPPING PHOTO

PARTY CHIEF NAME: R. RUBIO
CREW MEMBER NAME:
SURVEY EQUIPMENT USED: VRS GPS/CONVENTIONAL
HORIZONTAL DATUM: NAD83 NORTH CENTRAL ZONE (4202)
VERTICAL DATUM: NAVD88

NOTE: HORIZONTAL AND VERTICAL VALUES ARE BASED ON THE CITY OF CARROLLTON'S PUBLISHED GPS NETWORK. ALL VAULES SHOWN ARE AT GRID WITH A GRID TO SURFACE PROJECT SCALE FACTOR OF 1.0001442859.

| | |
|---|---|
| PROJECT NAME: | LOWER DUDLEY |
| STREAM NAME: | LOWER DUDLEY |
| LOCATION/ROAD NAME: | FRANKFORD RD. SEC D |
| CITY: | CARROLLTON |
| COUNTY: | DENTON |
| STATE: | TEXAS |

EBG ENGINEERING, LLC
CONSULTING ENGINEERS & SURVEYORS
10300 N CENTRAL EXPWY, STE 160
DALLAS, TEXAS 75231
PHONE: (214) 321-3861
FAX: (214)321-2131

| | |
|---|---|
| PAGE 1 OF | 5 |
| SURVEY DATE: | 4/3/12 |
| JOB NO.: | 11028 |
| DC FILE: | 120403LD GPS |
| DRAWN BY: | RR |
| REVIEWED BY: | MWC |

# LOWER DUDLEY FRANKFORD ROAD SECTION D CULVERT

DOWNSTREAM PHOTO

DOWNSTREAM FACE PHOTO

# LOWER DUDLEY FRANKFORD ROAD SECTION D CULVERT

UPSTREAM PHOTO

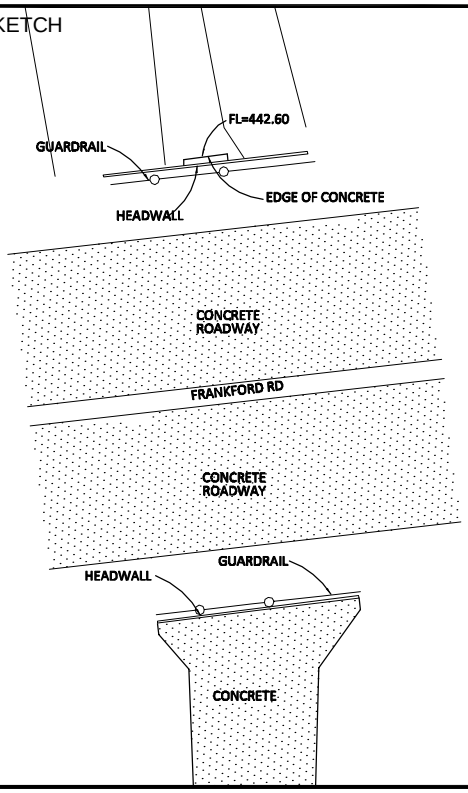
UPSTREAM FACE PHOTO

| FRANKFORD ROAD SECTION D | | | | |
|---|---|---|---|---|
| POINT # | NORTHING | EASTING | ELEVATON | CODE |
| 5520 | 7048762.165 | 2448819.757 | 449.473 | FRANKFORD SECTION D - SE |
| 5521 | 7048728.117 | 2448832.365 | 448.352 | FRANKFORD SECTION D - SLT |
| 5522 | 7048717.437 | 2448839.520 | 442.359 | FRANKFORD SECTION D - SLB |
| 5523 | 7048714.307 | 2448842.470 | 441.120 | FRANKFORD SECTION D - FL |
| 5524 | 7048710.379 | 2448843.632 | 441.632 | FRANKFORD SECTION D - FL |
| 5525 | 7048706.234 | 2448845.688 | 440.919 | FRANKFORD SECTION D - FL |
| 5526 | 7048702.955 | 2448846.992 | 439.730 | FRANKFORD SECTION D - FL |
| 5527 | 7048695.241 | 2448850.582 | 440.202 | FRANKFORD SECTION D - FL |
| 5528 | 7048690.498 | 2448853.633 | 440.196 | FRANKFORD SECTION D - SLB |
| 5529 | 7048678.903 | 2448857.778 | 448.647 | FRANKFORD SECTION D - SLT |
| 5530 | 7048648.983 | 2448870.454 | 447.831 | FRANKFORD SECTION D - SE |
| 5531 | 7048780.779 | 2448872.406 | 448.459 | FRANKFORD SECTION D - CL |
| 5532 | 7048740.879 | 2448883.246 | 448.518 | FRANKFORD SECTION D - CL |
| 5533 | 7048688.570 | 2448903.317 | 449.039 | FRANKFORD SECTION D - CL |
| 5534 | 7048715.581 | 2448952.607 | 448.079 | FRANKFORD SECTION D - SE |
| 5535 | 7048743.559 | 2448938.406 | 447.458 | FRANKFORD SECTION D - SLT |
| 5536 | 7048752.885 | 2448928.537 | 442.261 | FRANKFORD SECTION D - SLB |
| 5537 | 7048755.290 | 2448928.123 | 441.491 | FRANKFORD SECTION D - FL |
| 5538 | 7048758.824 | 2448926.571 | 441.654 | FRANKFORD SECTION D - FL |
| 5539 | 7048762.038 | 2448925.404 | 442.151 | FRANKFORD SECTION D - FL |
| 5540 | 7048767.795 | 2448922.968 | 442.533 | FRANKFORD SECTION D - FL |
| 5541 | 7048772.056 | 2448921.254 | 442.659 | FRANKFORD SECTION D - FL |
| 5542 | 7048774.876 | 2448918.960 | 443.256 | FRANKFORD SECTION D - SLB |
| 5543 | 7048786.438 | 2448911.389 | 447.105 | FRANKFORD SECTION D - SLT |
| 5544 | 7048805.286 | 2448899.196 | 448.465 | FRANKFORD SECTION D - SE |
| 16080 | 7048682.961 | 2448859.317 | 448.700 | FRANKFORD SECTION D - EOC |
| 16081 | 7048696.048 | 2448876.151 | 448.357 | FRANKFORD SECTION D - EOC CRB |
| 16082 | 7048692.703 | 2448877.740 | 448.847 | FRANKFORD SECTION D - CRB |
| 16083 | 7048692.834 | 2448878.456 | 448.460 | FRANKFORD SECTION D - GUT |
| 16084 | 7048696.637 | 2448876.537 | 448.304 | FRANKFORD SECTION D - GUT |
| 16085 | 7048696.719 | 2448852.982 | 442.290 | FRANKFORD SECTION D - SLB |
| 16086 | 7048702.703 | 2448860.235 | 442.330 | FRANKFORD SECTION D - SLB |
| 16087 | 7048705.571 | 2448859.690 | 442.320 | FRANKFORD SECTION D - FL |
| 16088 | 7048713.095 | 2448856.293 | 442.255 | FRANKFORD SECTION D - FL |
| 16089 | 7048696.705 | 2448876.580 | 448.301 | FRANKFORD SECTION D - SLT |
| 16090 | 7048720.395 | 2448867.338 | 447.961 | FRANKFORD SECTION D - SLT |
| 16091 | 7048745.245 | 2448858.578 | 447.978 | FRANKFORD SECTION D - SLT GUT |
| 16092 | 7048752.704 | 2448857.084 | 447.978 | FRANKFORD SECTION D - GUT |
| 16093 | 7048752.497 | 2448856.308 | 448.378 | FRANKFORD SECTION D - CRB |
| 16094 | 7048745.520 | 2448857.866 | 448.325 | FRANKFORD SECTION D - CRB EOC |
| 16095 | 7048728.288 | 2448834.051 | 448.045 | FRANKFORD SECTION D - EOC |
| 16096 | 7048720.484 | 2448853.124 | 442.220 | FRANKFORD SECTION D - FL |
| 16097 | 7048722.597 | 2448851.558 | 442.237 | FRANKFORD SECTION D - SLB |
| 16098 | 7048716.200 | 2448844.319 | 442.165 | FRANKFORD SECTION D - SLB |
| 16099 | 7048705.294 | 2448849.117 | 442.208 | FRANKFORD SECTION D - EOC |

| FRANKFORD ROAD SECTION D | | | | |
|---|---|---|---|---|
| POINT # | NORTHING | EASTING | ELEVATON | CODE |
| 16100 | 7048704.622 | 2448848.687 | 439.955 | FRANKFORD SECTION D - FL |
| 16101 | 7048772.378 | 2448917.672 | 442.812 | FRANKFORD SECTION D - EOC SLB |
| 16102 | 7048781.449 | 2448905.947 | 447.630 | FRANKFORD SECTION D - EOC SLT |
| 16103 | 7048791.205 | 2448910.203 | 447.779 | FRANKFORD SECTION D - SLT |
| 16104 | 7048773.347 | 2448895.681 | 448.823 | FRANKFORD SECTION D - EOC CRB |
| 16105 | 7048781.361 | 2448893.950 | 448.955 | FRANKFORD SECTION D - CRB |
| 16106 | 7048781.058 | 2448893.236 | 448.535 | FRANKFORD SECTION D - GUT |
| 16107 | 7048773.206 | 2448894.957 | 448.550 | FRANKFORD SECTION D - GUT |
| 16108 | 7048772.769 | 2448896.420 | 448.502 | FRANKFORD SECTION D - GUT SLT |
| 16109 | 7048726.391 | 2448912.480 | 448.754 | FRANKFORD SECTION D - SLT GUT |
| 16110 | 7048725.390 | 2448911.866 | 448.837 | FRANKFORD SECTION D - GUT |
| 16111 | 7048724.935 | 2448912.437 | 449.134 | FRANKFORD SECTION D - EOC CRB |
| 16112 | 7048715.759 | 2448915.984 | 449.348 | FRANKFORD SECTION D - CRB |
| 16113 | 7048715.490 | 2448915.317 | 448.972 | FRANKFORD SECTION D - GUT |
| 16114 | 7048743.062 | 2448936.329 | 447.613 | FRANKFORD SECTION D - EOC |
| 16115 | 7048749.819 | 2448917.180 | 442.501 | FRANKFORD SECTION D - FL |
| 16116 | 7048763.939 | 2448911.094 | 442.903 | FRANKFORD SECTION D - FL |
| 16117 | 7048756.785 | 2448914.519 | 442.664 | FRANKFORD SECTION D - FL |
| 16118 | 7048766.570 | 2448910.436 | 442.812 | FRANKFORD SECTION D - SLB |
| 16119 | 7048748.159 | 2448918.313 | 442.672 | FRANKFORD SECTION D - SLB |
| 16120 | 7048753.505 | 2448926.213 | 442.659 | FRANKFORD SECTION D - SLB EOC |
| 16121 | 7048755.645 | 2448926.183 | 441.944 | FRANKFORD SECTION D - FL |

# FRANKFORD ROAD SECTION C CULVERT DATASHEET

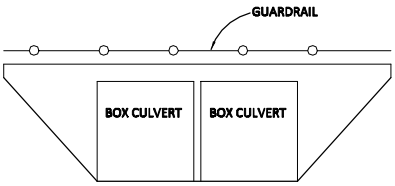
CULVERT SKETCH




UPSTREAM FACE PHOTO

UPSTREAM CHANNEL PHOTO

CULVERT PROFILE UPSTREAM




DOWNSTREAM FACE PHOTO

OVERTOPPING PHOTO

DOWNSTREAM CHANNEL PHOTO

PARTY CHIEF NAME: RR
CREW MEMEBER NAME: JW
SURVEY EQUIPMENT USED: VRS GPS/CONVENTIONAL
HORIZONTAL DATUM: NAD83 NORTH CENTRAL ZONE (4202)
VERTICAL DATUM: NAVD88

NOTE: HORIZONTAL & VERTICAL VALUES ARE BASED ON THE CITY OF CARROLLTON'S PUBLISHED GPS NETWORK. ALL VALUES SHOWN ARE AT THE SURFACE PROJECT SCALE FACTOR OF 1.0001442859.

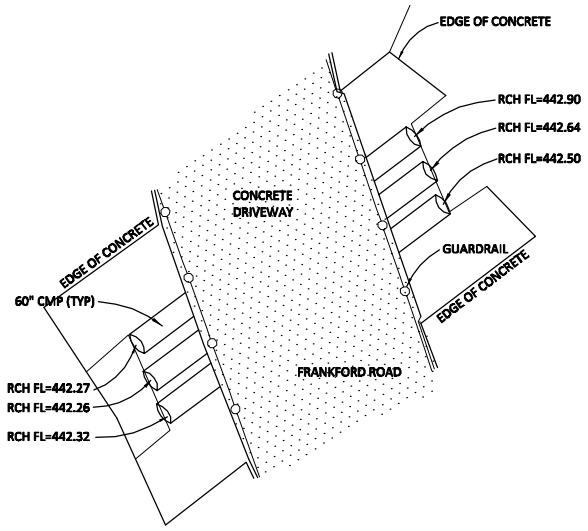
PROJECT NAME: LOWER DUDLEY
STREAM NAME: LOWER DUDLEY
LOCATION/ROAD NAME: SH121/I-35E/FRANKFORD
CITY: CARROLLTON
COUNTY: DENTON
STATE: TEXAS

EBG ENGINEERING, LLC
CONSULTING ENGINEERS & SURVEYORS
10300 N CENTRAL EXPWY, STE 160
DALLAS, TEXAS 75231
PHONE: (214) 321-3861
FAX: (214)321-2131

PAGE 1 OF 1
SURVEY DATE: 03/09/12
JOB NO.: 11028
DC FILE:
DRAWN BY: LJG
REVIEWED BY: MWC

# FRANKFORD ROAD SECTION D CULVERT DATASHEET

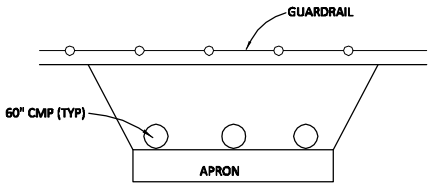
## CULVERT SKETCH




## UPSTREAM FACE PHOTO

## UPSTREAM CHANNEL PHOTO

## CULVERT PROFILE UPSTREAM




## DOWNSTREAM FACE PHOTO

## OVERTOPPING PHOTO

## DOWNSTREAM CHANNEL PHOTO

| | |
|---|---|
| PARTY CHIEF NAME: | RR |
| CREW MEMEBER NAME: | JW |
| SURVEY EQUIPMENT USED: | VRS GPS/CONVENTIONAL |
| HORIZONTAL DATUM: | NAD83 NORTH CENTRAL ZONE (4202) |
| VERTICAL DATUM: | NAVD88 |

NOTE: HORIZONTAL & VERTICAL VALUES ARE BASED ON THE CITY OF CARROLLTON'S PUBLISHED GPS NETWORK. ALL VALUES SHOWN ARE AT THE SURFACE PROJECT SCALE FACTOR OF 1.0001442859.

| | |
|---|---|
| PROJECT NAME: | LOWER DUDLEY |
| STREAM NAME: | LOWER DUDLEY |
| LOCATION/ROAD NAME: | SH121/I-35E/FRANKFORD |
| CITY: | CARROLLTON |
| COUNTY: | DENTON |
| STATE: | TEXAS |

EBG ENGINEERING, LLC
CONSULTING ENGINEERS & SURVEYORS
10300 N CENTRAL EXPWY, STE 160
DALLAS, TEXAS 75231
PHONE: (214) 321-3861
FAX: (214)321-2131

PAGE 1 OF 1
SURVEY DATE: 03/09/12
JOB NO.: 11028
DC FILE:
DRAWN BY: LJG
REVIEWED BY: MWC