COLLIN COUNTY TOLL ROAD AUTHORITY

DESIGN SCHEMATIC COLLIN COUNTY OUTER LOOP

COUNTY: COLLIN
DATE: JULY 2019

ROLL 8 OF 8

BGE, Inc.
2595 Dallas Parkway, Suite 101, Frisco, TX 75034
Tel: 972-464-4800 • www.bgeinc.com
TBPE Registration No. F-1046

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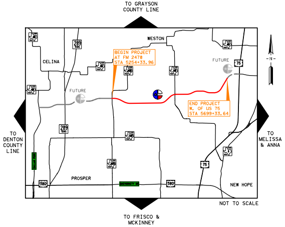
COLLIN COUNTY OUTER LOOP

PHASE III: FUTURE EAST BOUND FRONTAGE ROAD
FM 2478 TO WEST OF US 75

ROADWAY FUNCTIONAL CLASSIFICATION:	URBAN FREEWAY
ROADWAY CONSTRUCTION TYPE:	NEW FACILITY
DESIGN SPEED (MAINLANES):	70 MPH
DESIGN SPEED (OUTER LOOP EBFR):	45 MPH
DESIGN SPEED (RAMPS):	50 MPH
DESIGN SPEED (CR 52,51,53,1117):	40 MPH
NET LENGTH OF PROJECT:	7.97 MILES
SCHEMATIC SCALE:	HORIZ: 1"=100' VERT: 1"=20'
AERIAL PHOTO DATE:	2015

LOCATION MAP


TO GRAYSON COUNTY LINE
WESTON
CELINA
289
BEGIN PROJECT AT FM 2478 STA 5254+33.96
FUTURE
75
FUTURE
END PROJECT W. OF US 75 STA 5699+33.64
N
TO DENTON COUNTY LINE
TO MELISSA & ANNA
289
75
PROSPER
380
380
NEW HOPE
NOT TO SCALE
TO FRISCO & MCKINNEY

LEGEND

▆	FUTURE MAINLANES
🟨	PROPOSED FRONTAGE ROAD
▆	FUTURE IMPROVEMENTS (BY OTHERS)
🟩	RAMPS
🟦	CURBED GORE
🟧	BRIDGE
🟦	PROPOSED CROSS STREET (BY OTHERS)
▆	100-YR FEMA FLOODPLAIN
──	PARCEL BOUNDARY
— - -	EXISTING RIGHT-OF-WAY
- - -	EXISTING EASEMENT
— - -	PROPOSED RIGHT-OF-WAY
- - -	FUTURE RIGHT-OF-WAY (BY OTHERS)
— —	PROPOSED DRAINAGE EASEMENT
— —	PROPOSED PERMANENT SLOPE EASEMENT
— —	PROPOSED TEMP CONSTRUCTION EASEMENT
— - -	PROPOSED CENTERLINE OUTER LOOP CORRIDOR
— - -	PROPOSED CENTERLINE ACCES ROAD
— —	PROPOSED CENTERLINE CROSS STREET/TRANSITION
──	PROPOSED RETAINING WALL
──	EXISTING CONTOUR (1FOOT)

NOTES:

1. EXISTING FEATURES WERE NOT FIELD SURVEYED. SCHEMATIC LAYOUTS ARE BASED ON AERIAL SURVEY AND RECORD PLANS ONLY.
2. EXISTING DRIVEWAYS WILL REMAIN UNLESS IT IS DETERMINED DURING DETAILED DESIGN AND COORDINATION WITH THE CITIES OR COUNTY THAT DRIVEWAY WILL BE A SAFETY ISSUE AND/OR VIOLATES ACCESS MANAGEMENT REQUIREMENTS.
3. FINAL DETERMINATION OF CONTROL OF ACCESS WILL BE DETERMINED BY THE COUNTIES OR MUNICIPALITIES AT A FUTURE DATE.
4. ADJACENT DEVELOPMENTS ARE PRELIMINARY,. DESIGNED BY OTHERS AND SUBJECT TO CHANGE.
5. SPECIFICATIONS ADOPTED BY THE TEXAS DEPARTMENT OF TRANSPORTATION NOVEMBER 1, 2014 SHALL GOVERN ON THIS PROJECT.
6. BASIS OF BEARINGS: TEXAS STATE PLANE COORIDINATE SYSTEM, NAD 83 (1993), NORTH CENTRAL ZONE (4202), ALL DISTANCES AND COORDINATES SHOWN HEREON ARE SCAILED FROM 0,0 USING A TXDOT SURFACE ADJUSTMENT FACTOR OF 1.00015271. COORDINATE VALUES DERIVED USING THE WESTERN DATA SYSTEM VRS NETWORK.
7. FOR RETAINING WALL BEGIN/END STATION & OFFSET. REFER TO RETAINING WALL CHART.

EXISTING UTILITY LEGEND

—OH-ELEC—	ELECTRIC LINE - OVERHEAD
—UG-ELEC—	ELECTRIC WIRE - UNDERGROUND
—WATER—	WATER LINE
—CABLE—	CABLE LINE
—FOL—	FIBER OPTIC LINE
—SS—	SANITARY LINE
—GP—	GAS LINE
—STM—	STORM DRAIN LINE

SCHEMATIC PREPARED BY:

BGE, INC.
REGISTRATION NUMBER F-1046

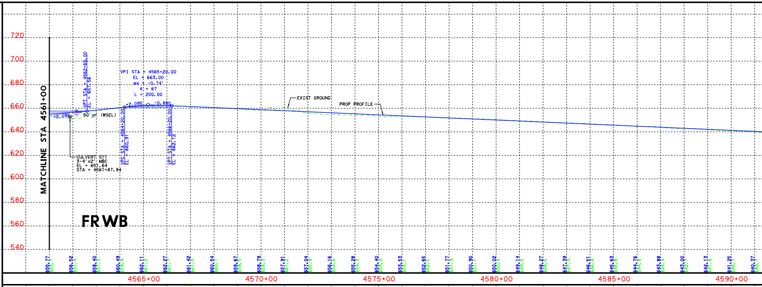
FOR INTERIM REVIEW ONLY. NOT FOR PERMITTING, BIDDING OR CONSTRUCTION.

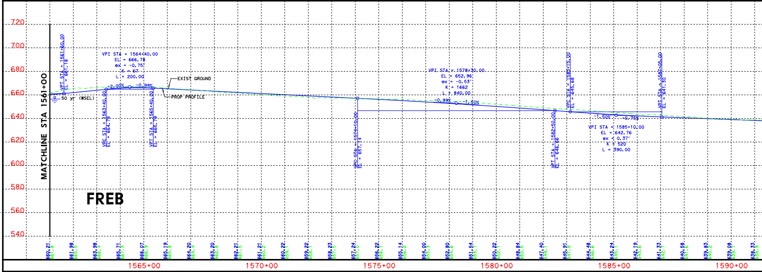
Prepared by or under the Direct Supervision of:

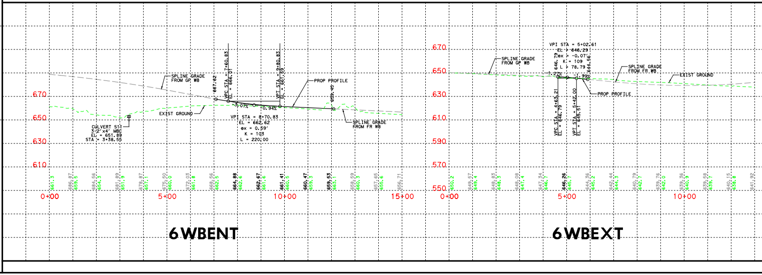
NAME	P.E. NUMBER
MICHAEL H. GARRISON	79285
STONEY D. SKIDMORE	106316

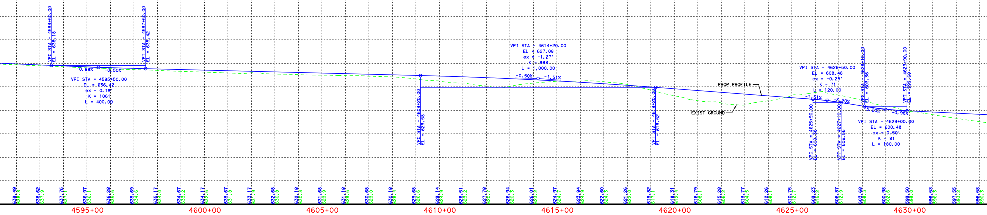
7/10/2019
DATE

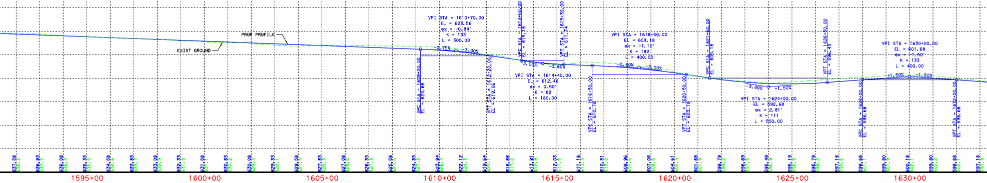
HORIZONTAL SCALE
0 50 100 200 300
VERTICAL SCALE
0 10 20 40 60

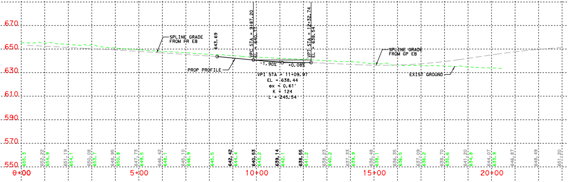

720
700
680
660
640
620
600
580
560
540
MATCHLINE STA 4561+00
VPT STA = 4562+60.00
EL = 657.56
VPI STA = 4565+20.00
EL = 663.00
ex = -0.74'
K = 67
L = 200.00
+2.09%
-0.88%
+2.09%
50 yr (WSEL)
VPC STA = 4564+20.00
EL = 660.91
VPT STA = 4566+20.00
EL = 662.12
CULVERT S11
3-4'x2' MBC
EL = 651.64
STA = 4561+87.94
EXIST GROUND
PROP PROFILE
FRWB
4565+00
4570+00
4575+00
4580+00
4585+00
4590+00


720
700
680
660
640
620
600
580
560
540
MATCHLINE STA 1561+00
VPT STA = 1561+60.00
EL = 661.18
VPI STA = 1564+40.00
EL = 666.78
ex = -0.75'
K = 67
L = 200.00
+2.00%
-0.99%
50 yr (WSEL)
VPC STA = 1563+40.00
EL = 664.78
VPT STA = 1565+40.00
EL = 665.78
EXIST GROUND
PROP PROFILE
VPC STA = 1574+10.00
EL = 657.14
VPI STA = 1578+30.00
EL = 652.96
ex = -0.53'
K = 1662
L = 840.00
-0.99%
-1.60%
VPT STA = 1582+50.00
EL = 646.66
VPC STA = 1583+15.00
EL = 645.68
-1.60%
-0.75%
VPI STA = 1585+10.00
EL = 642.76
ex = 0.37'
K = 520
L = 390.00
VPT STA = 1587+05.00
EL = 641.30
FREB
1565+00
1570+00
1575+00
1580+00
1585+00
1590+00

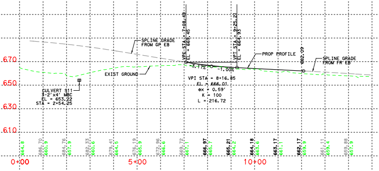

670
650
630
610
SPLINE GRADE FROM GP WB
667.82
VPC STA = 7+60.83
EL = 666.01
VPT STA = 9+80.83
EL = 661.59
PROP PROFILE
659.45
-3.07%
-0.94%
EXIST GROUND
VPI STA = 8+70.83
EL = 662.62
ex = 0.59'
K = 103
L = 220.00
SPLINE GRADE FROM FR WB
CULVERT S11
3-2'x4' MBC
EL = 651.89
STA = 3+38.55
0+00
5+00
10+00
15+00
6WBENT
670
650
630
610
590
570
550
SPLINE GRADE FROM GP WB
VPI STA = 5+02.61
EL = 646.29
ex = -0.07'
K = 109
L = 78.79
646.79
644.56
-1.27%
-1.99%
SPLINE GRADE FROM FR WB
EXIST GROUND
PROP PROFILE
VPC STA = 4+63.21
EL = 646.79
VPT STA = 5+42.00
EL = 645.51
0+00
5+00
10+00
6WBEXT


VPC STA = 4593+50.00
EL = 638.18
VPT STA = 4597+50.00
EL = 636.42
-0.88%
-0.50%
VPI STA = 4595+50.00
EL = 636.42
ex = 0.19'
K = 1061
L = 400.00
VPC STA = 4609+20.00
EL = 629.58
VPI STA = 4614+20.00
EL = 627.08
ex = -1.27'
K = 988
L = 1,000.00
-0.50%
-1.51%
VPT STA = 4619+20.00
EL = 619.52
PROP PROFILE
EXIST GROUND
VPI STA = 4626+50.00
EL = 608.48
ex = -0.25'
K = 71
L = 120.00
VPC STA = 4625+90.00
EL = 609.38
VPT STA = 4627+10.00
EL = 606.56
VPC STA = 4628+10.00
EL = 603.36
VPT STA = 4629+90.00
EL = 599.60
VPI STA = 4629+00.00
EL = 600.48
ex = 0.50'
K = 81
L = 180.00
-0.98%
4595+00
4600+00
4605+00
4610+00
4615+00
4620+00
4625+00
4630+00

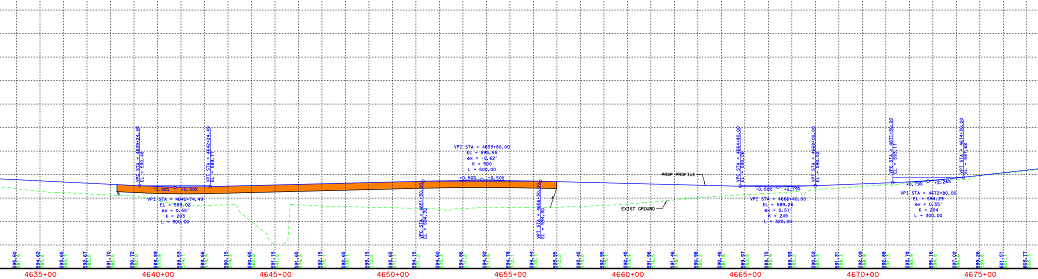

PROP PROFILE
EXIST GROUND
VPI STA = 1610+70.00
EL = 623.56
ex = -0.84'
K = 133
L = 300.00
-0.75%
-3.00%
VPC STA = 1609+20.00
EL = 624.68
VPT STA = 1612+20.00
EL = 619.06
VPC STA = 1613+50.00
EL = 615.16
VPT STA = 1615+30.00
EL = 611.74
VPI STA = 1614+40.00
EL = 612.46
ex = 0.50'
K = 82
L = 180.00
-3.00%
-0.80%
VPI STA = 1618+50.00
EL = 609.18
ex = -1.10'
K = 182
L = 400.00
-0.80%
-3.00%
VPC STA = 1616+50.00
EL = 610.78
VPT STA = 1620+50.00
EL = 603.18
VPC STA = 1621+50.00
EL = 600.18
VPI STA = 1624+00.00
EL = 592.68
ex = 2.81'
K = 111
L = 500.00
-3.00%
+1.50%
VPT STA = 1626+50.00
EL = 596.43
VPI STA = 1630+00.00
EL = 601.68
ex = -1.50'
K = 133
L = 400.00
+1.50%
-1.50%
VPC STA = 1628+00.00
EL = 598.68
VPT STA = 1632+00.00
EL = 598.68
1595+00
1600+00
1605+00
1610+00
1615+00
1620+00
1625+00
1630+00

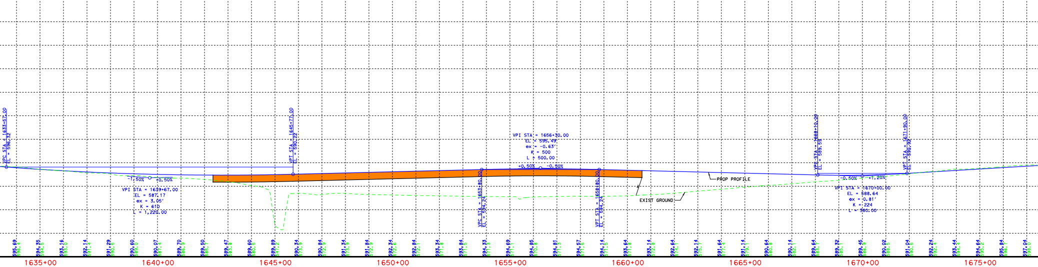

670
650
630
610
590
570
550
SPLINE GRADE FROM FR EB
643.69
VPC STA = 9+87.20
EL = 640.77
VPT STA = 12+32.74
EL = 638.54
-1.90%
+0.08%
PROP PROFILE
VPI STA = 11+09.97
EL = 638.44
ex = 0.61'
K = 124
L = 245.54
SPLINE GRADE FROM GP EB
EXIST GROUND
0+00
5+00
10+00
15+00
20+00

6EBENT


670
650
630
610
SPLINE GRADE FROM GP EB
VPC STA = 7+08.49
EL = 669.45
VPT STA = 9+25.21
EL = 664.93
PROP PROFILE
662.09
SPLINE GRADE FROM FR EB
-3.17%
-1.00%
EXIST GROUND
VPI STA = 8+16.85
EL = 666.01
ex = 0.59'
K = 100
L = 216.72
CULVERT S11
3-2'x4' MBC
EL = 653.22
STA = 2+54.25
0+00
5+00
10+00

6EBEXT


VPC STA = 4639+24.49
EL = 590.48
VPT STA = 4642+24.49
EL = 589.77
-0.98%
+0.50%
VPI STA = 4640+74.49
EL = 589.02
ex = 0.55'
K = 203
L = 300.00
VPI STA = 4653+80.00
EL = 595.55
ex = -0.62'
K = 500
L = 500.00
+0.50%
-0.50%
VPC STA = 4651+30.00
EL = 594.30
VPT STA = 4656+30.00
EL = 594.30
PROP PROFILE
EXIST GROUND
VPC STA = 4664+80.00
EL = 590.06
VPT STA = 4668+00.00
EL = 590.52
-0.50%
+0.79%
VPI STA = 4666+40.00
EL = 589.26
ex = 0.51'
K = 249
L = 320.00
VPC STA = 4671+30.00
EL = 593.11
VPT STA = 4674+30.00
EL = 597.68
+0.79%
+2.26%
VPI STA = 4672+80.00
EL = 594.29
ex = 0.55'
K = 204
L = 300.00
591.70
582.5
590.72
582.0
589.89
577.8
589.53
574.7
589.66
573.9
590.15
574.3
590.65
560.0
591.15
541.0
591.65
574.2
592.15
573.1
592.65
572.7
593.15
572.2
593.65
571.7
594.15
571.2
594.60
570.3
594.86
571.2
594.92
571.9
594.78
572.1
594.44
572.1
593.95
572.2
592.95
573.7
592.45
574.9
591.96
576.5
591.46
578.3
590.96
580.2
590.46
581.8
589.97
582.9
589.75
583.9
589.93
585.2
590.52
587.3
591.31
588.3
592.09
589.9
592.88
591.3
593.78
592.9
595.16
594.8
597.02
595.6
599.26
598.8
601.51
601.1
603.77
603.3
4635+00
4640+00
4645+00
4650+00
4655+00
4660+00
4665+00
4670+00
4675+00


VPC STA = 1633+57.00
EL = 596.32
VPT STA = 1645+77.00
EL = 590.22
-1.50%
+0.50%
VPI STA = 1639+67.00
EL = 587.17
ex = 3.05'
K = 610
L = 1,220.00
VPI STA = 1656+30.00
EL = 595.49
ex = -0.63'
K = 500
L = 500.00
+0.50%
-0.50%
VPC STA = 1653+80.00
EL = 594.24
VPT STA = 1658+80.00
EL = 594.24
EXIST GROUND
PROP PROFILE
VPC STA = 1668+10.00
EL = 589.59
VPT STA = 1671+90.00
EL = 590.92
-0.50%
+1.20%
VPI STA = 1670+00.00
EL = 588.64
ex = 0.81'
K = 224
L = 380.00
595.69
596.4
594.35
594.5
593.16
593.0
592.14
591.4
591.29
590.5
590.60
589.0
590.07
587.4
589.70
586.9
589.50
585.7
589.47
583.8
589.60
580.5
589.89
547.2
590.34
573.9
590.84
572.9
591.34
573.9
591.84
572.9
592.34
572.6
592.84
572.1
593.34
571.8
593.84
571.5
594.33
571.3
594.69
571.1
594.85
570.8
594.81
571.3
594.57
571.5
594.14
571.5
593.64
571.8
593.14
572.8
592.64
574.1
592.14
575.7
591.64
577.4
591.14
579.1
590.64
580.8
590.14
582.1
589.64
583.7
589.32
585.1
589.45
586.9
590.02
588.5
591.04
590.5
592.24
592.4
593.44
594.4
594.64
595.2
595.84
596.7
597.04
598.0
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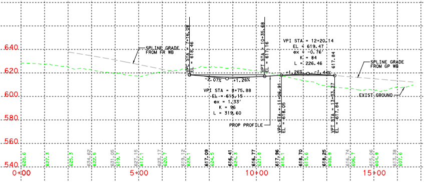
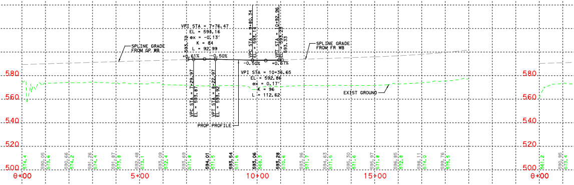
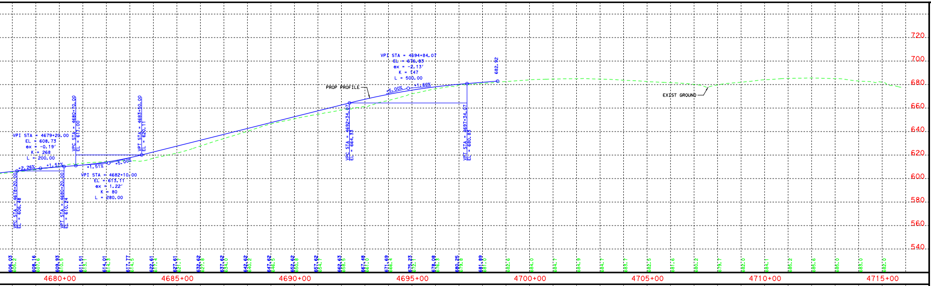
1640+00
1645+00
1650+00
1655+00
1660+00
1665+00
1670+00
1675+00

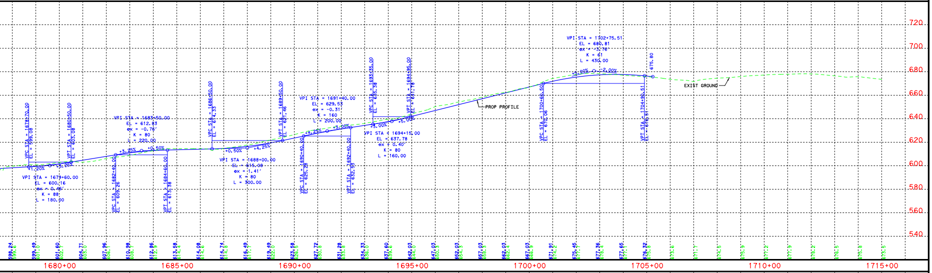

SPLINE GRADE
FROM FR WB
VPC STA = 7+16.08
EL = 618.46
VPT STA = 10+35.68
EL = 617.16
VPI STA = 12+20.14
EL = 619.47
ex = -0.76'
K = 84
L = 226.46
617.84
-2.07%
+1.26%
+1.26%
-1.44%
SPLINE GRADE
FROM GP WB
VPI STA = 8+75.88
EL = 615.15
ex = 1.33'
K = 96
L = 319.60
PROP PROFILE
VPC STA = 11+06.91
EL = 618.05
VPT STA = 13+53.37
EL = 617.84
EXIST GROUND
640
620
600
580
560
540
628.6
627.3
625.3
634.62
622.5
631.05
619.7
627.15
617.1
623.17
620.7
619.12
623.1
617.09
624.5
616.41
624.3
616.77
621.8
617.96
618.1
618.70
613.6
618.25
608.9
616.74
606.7
615.06
604.9
613.38
607.6
0+00
5+00
10+00
15+00

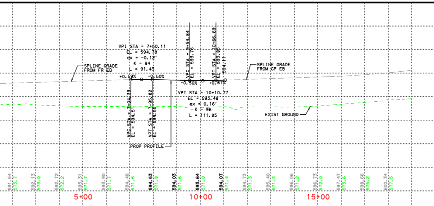
7WBENT


SPLINE GRADE
FROM GP WB
VPI STA = 7+76.47
EL = 594.16
ex = -0.13'
K = 84
L = 92.99
593.72
+0.61%
-0.50%
VPC STA = 9+80.34
EL = 593.14
VPT STA = 10+92.96
EL = 593.28
593.33
-0.50%
+0.67%
SPLINE GRADE
FROM FR WB
VPI STA = 10+36.65
EL = 592.86
ex = 0.17'
K = 96
L = 112.62
VPC STA = 7+29.97
EL = 593.87
VPT STA = 8+22.97
EL = 593.92
PROP PROFILE
EXIST GROUND
580
560
540
520
500
574.4
590.05
573.6
590.66
574.2
591.26
574.4
591.87
573.8
592.48
573.1
593.09
572.4
593.69
571.8
594.01
571.5
593.54
571.6
593.06
568.3
593.28
570.6
593.96
571.7
594.63
571.5
595.30
571.6
595.97
571.8
596.85
572.8
598.11
574.0
599.76
575.5
561.2
590.95
573.4
0+00
5+00
10+00
15+00
580
560
540
520
500
0+00

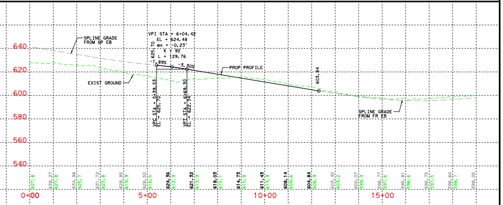
7WBEXT


VPI STA = 4679+20.00
EL = 608.73
ex = -0.19'
K = 268
L = 200.00
VPC STA = 4678+20.00
EL = 606.48
VPT STA = 4680+20.00
EL = 610.24
+2.26%
+1.51%
VPC STA = 4680+70.00
EL = 611.00
VPT STA = 4683+50.00
EL = 620.11
+1.51%
+5.00%
VPI STA = 4682+10.00
EL = 613.11
ex = 1.22'
K = 80
L = 280.00
PROP PROFILE
VPI STA = 4694+84.07
EL = 676.83
ex = -2.13'
K = 147
L = 500.00
+5.00%
+1.60%
682.92
VPC STA = 4692+34.07
EL = 664.33
VPT STA = 4697+34.07
EL = 680.83
EXIST GROUND
720
700
680
660
640
620
600
580
560
540
4680+00
4685+00
4690+00
4695+00
4700+00
4705+00
4710+00
4715+00


VPI STA = 1679+60.00
EL = 600.16
ex = 0.46'
K = 88
L = 180.00
+1.20%
+3.25%
VPC STA = 1678+70.00
EL = 599.08
VPT STA = 1680+50.00
EL = 603.08
VPI STA = 1683+50.00
EL = 612.83
ex = -0.76'
K = 80
L = 220.00
+3.25%
+0.50%
VPC STA = 1682+40.00
EL = 609.26
VPT STA = 1684+60.00
EL = 613.38
VPC STA = 1686+50.00
EL = 614.33
VPT STA = 1689+50.00
EL = 621.46
+0.50%
+4.25%
VPI STA = 1688+00.00
EL = 615.08
ex = 1.41'
K = 80
L = 300.00
VPI STA = 1691+40.00
EL = 629.53
ex = -0.31'
K = 160
L = 200.00
+4.25%
+3.00%
VPC STA = 1690+40.00
EL = 625.28
VPT STA = 1692+40.00
EL = 632.53
VPC STA = 1693+35.00
EL = 635.38
VPT STA = 1694+95.00
EL = 641.78
+3.00%
+5.00%
VPI STA = 1694+15.00
EL = 637.78
ex = 0.40'
K = 80
L = 160.00
PROP PROFILE
VPI STA = 1702+75.51
EL = 680.81
ex = -3.76'
K = 61
L = 430.00
+5.00%
-2.00%
675.80
VPC STA = 1700+60.50
EL = 670.06
VPT STA = 1704+90.51
EL = 676.51
EXIST GROUND
720
700
680
660
640
620
600
580
560
540
1680+00
1685+00
1690+00
1695+00
1700+00
1705+00
1710+00
1715+00


SPLINE GRADE FROM FR EB
VPI STA = 7+50.11
EL = 594.78
ex = -0.12'
K = 84
L = 91.43
+0.59%
-0.50%
VPC STA = 7+04.39
EL = 594.51
VPT STA = 7+95.82
EL = 594.55
PROP PROFILE
VPC STA = 9+54.84
EL = 593.76
VPT STA = 10+66.69
EL = 593.85
594.11
-0.50%
+0.67%
VPI STA = 10+10.77
EL = 593.48
ex = 0.16'
K = 96
L = 111.85
SPLINE GRADE FROM GP EB
EXIST GROUND
5+00
10+00
15+00

7EBENT


SPLINE GRADE FROM GP EB
640
620
600
580
560
540
VPI STA = 6+04.42
EL = 624.48
ex = -0.23'
K = 92
L = 129.76
625.70
-1.89%
-3.30%
PROP PROFILE
EXIST GROUND
VPC STA = 5+39.53
EL = 625.70
VPT STA = 6+69.30
EL = 622.34
603.84
SPLINE GRADE FROM FR EB
0+00
5+00
10+00
15+00

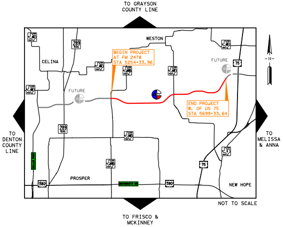
7EBEXT

COLLIN COUNTY OUTER LOOP

PHASE III: FUTURE EAST BOUND FRONTAGE ROAD
FM 2478 TO WEST OF US 75

ROADWAY FUNCTIONAL CLASSIFICATION:	URBAN FREEWAY
ROADWAY CONSTRUCTION TYPE:	NEW FACILITY
DESIGN SPEED (MAINLANES):	70 MPH
DESIGN SPEED (OUTER LOOP EBFR):	45 MPH
DESIGN SPEED (RAMPS):	50 MPH
DESIGN SPEED (CR 52,51,53,1117):	40 MPH
NET LENGTH OF PROJECT:	7.97 MILES
SCHEMATIC SCALE:	HORIZ: 1"=100' VERT: 1"=20'
AERIAL PHOTO DATE:	2015

LOCATION MAP


TO GRAYSON COUNTY LINE
WESTON
CELINA
BEGIN PROJECT AT FM 2478 STA 5254+33.96
FUTURE
FUTURE
END PROJECT W. OF US 75 STA 5699+33.64
TO DENTON COUNTY LINE
TO MELISSA & ANNA
PROSPER
NEW HOPE
NOT TO SCALE
TO FRISCO & MCKINNEY
289
380
75
N

LEGEND

▨	FUTURE MAINLANES
🟨	PROPOSED FRONTAGE ROAD
▨	FUTURE IMPROVEMENTS (BY OTHERS)
🟩	RAMPS
🟦	CURBED GORE
🟧	BRIDGE
🟦	PROPOSED CROSS STREET (BY OTHERS)
▨	100-YR FEMA FLOODPLAIN
—	PARCEL BOUNDARY
— - -	EXISTING RIGHT-OF-WAY
- - -	EXISTING EASEMENT
— - -	PROPOSED RIGHT-OF-WAY
— - -	FUTURE RIGHT-OF-WAY (BY OTHERS)
— —	PROPOSED DRAINAGE EASEMENT
— —	PROPOSED PERMANENT SLOPE EASEMENT
— —	PROPOSED TEMP CONSTRUCTION EASEMENT
— - -	PROPOSED CENTERLINE OUTER LOOP CORRIDOR
— - -	PROPOSED CENTERLINE ACCES ROAD
— —	PROPOSED CENTERLINE CROSS STREET/TRANSITION
—	PROPOSED RETAINING WALL
—	EXISTING CONTOUR (1FOOT)

NOTES:

1. EXISTING FEATURES WERE NOT FIELD SURVEYED. SCHEMATIC LAYOUTS ARE BASED ON AERIAL SURVEY AND RECORD PLANS ONLY.
2. EXISTING DRIVEWAYS WILL REMAIN UNLESS IT IS DETERMINED DURING DETAILED DESIGN AND COORDINATION WITH THE CITIES OR COUNTY THAT DRIVEWAY WILL BE A SAFETY ISSUE AND/OR VIOLATES ACCESS MANAGEMENT REQUIREMENTS.
3. FINAL DETERMINATION OF CONTROL OF ACCESS WILL BE DETERMINED BY THE COUNTIES OR MUNICIPALITIES AT A FUTURE DATE.
4. ADJACENT DEVELOPMENTS ARE PRELIMINARY,. DESIGNED BY OTHERS AND SUBJECT TO CHANGE.
5. SPECIFICATIONS ADOPTED BY THE TEXAS DEPARTMENT OF TRANSPORTATION NOVEMBER 1, 2014 SHALL GOVERN ON THIS PROJECT.
6. BASIS OF BEARINGS: TEXAS STATE PLANE COORIDINATE SYSTEM, NAD 83 (1993), NORTH CENTRAL ZONE (4202), ALL DISTANCES AND COORDINATES SHOWN HEREON ARE SCAILED FROM 0,0 USING A TXDOT SURFACE ADJUSTMENT FACTOR OF 1.00015271. COORDINATE VALUES DERIVED USING THE WESTERN DATA SYSTEM VRS NETWORK.
7. FOR RETAINING WALL BEGIN/END STATION & OFFSET. REFER TO RETAINING WALL CHART.

EXISTING UTILITY LEGEND

—OH-ELEC—	ELECTRIC LINE - OVERHEAD
—UG-ELEC—	ELECTRIC WIRE - UNDERGROUND
—WATER—	WATER LINE
—CABLE—	CABLE LINE
—FOL—	FIBER OPTIC LINE
—SS—	SANITARY LINE
—GP—	GAS LINE
—STM—	STORM DRAIN LINE

SCHEMATIC PREPARED BY:

BGE, INC.
REGISTRATION NUMBER F-1046

FOR INTERIM REVIEW ONLY. NOT FOR PERMITTING, BIDDING OR CONSTRUCTION.

Prepared by or under the Direct Supervision of:

NAME	P.E. NUMBER
MICHAEL H. GARRISON	79285
STONEY D. SKIDMORE	106316

7/10/2019
DATE

HORIZONTAL SCALE
0 50 100 200 300
VERTICAL SCALE
0 10 20 40 60

COLLIN COUNTY
TOLL ROAD AUTHORITY

COLLIN COUNTY OUTER LOOP
DESIGN SCHEMATIC

COUNTY: COLLIN
DATE: JULY 2019

ROLL 8 OF 8

BGE, Inc.
2595 Dallas Parkway, Suite 101, Frisco, TX 75034
Tel: 972-464-4800 • www.bgeinc.com
TBPE Registration No. F-1046

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