US 75 CSJ: 0047-14-067 ROLL 3

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Texas Department of Transportation

DALLAS DISTRICT

Design Schematic

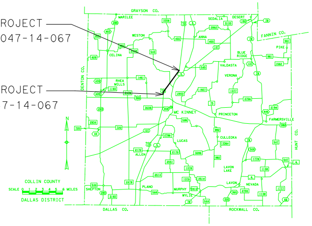
William L. Hale, P.E.
District Engineer

U.S. 75
From Bloomdale Road
To S.H. 121

McKinney, Texas
Collin County

CSJ: 0047-14-067

Functional Class.2: Urban Freeway
Project Length = 2.35 miles
Design Speed:
Mainlanes 70 mph
Ramps 40 mph
Frontage Roads 40 mph
Intersecting Streets 30 mph


GRAYSON CO.
COLLIN COUNTY
DALLAS DISTRICT
DALLAS CO.
ROCKWALL CO.
DENTON CO.
FANNIN CO.
HUNT CO.
MC KINNEY
PLANO
ALLEN
PRINCETON
FARMERSVILLE
WYLIE
CELINA
SCALE
MILES

END PROJECT
CSJ:0047-14-067

BEGIN PROJECT
CSJ:0047-14-067

Scale:
Horizontal 1:200
Vertical 1:20

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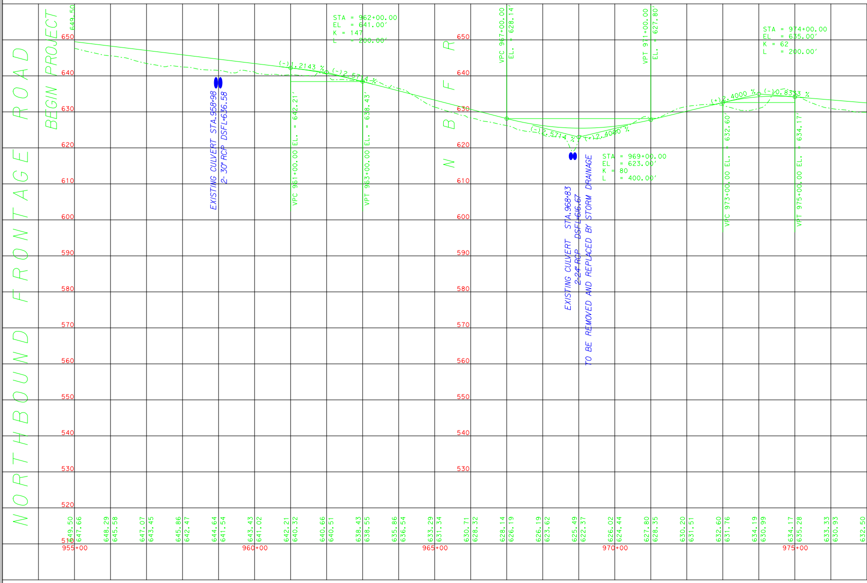
July 2010

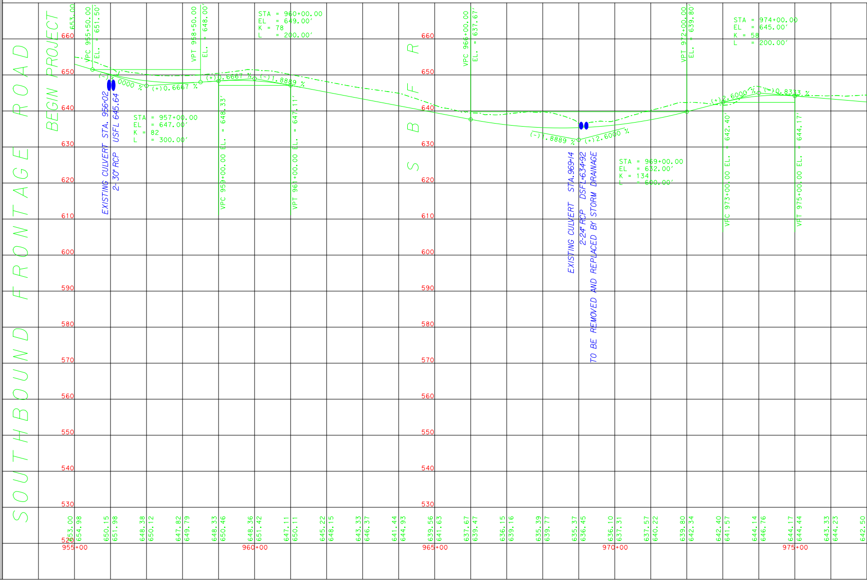
SCHEMATIC PREPARED BY:
TxDOT DALLAS DISTRICT

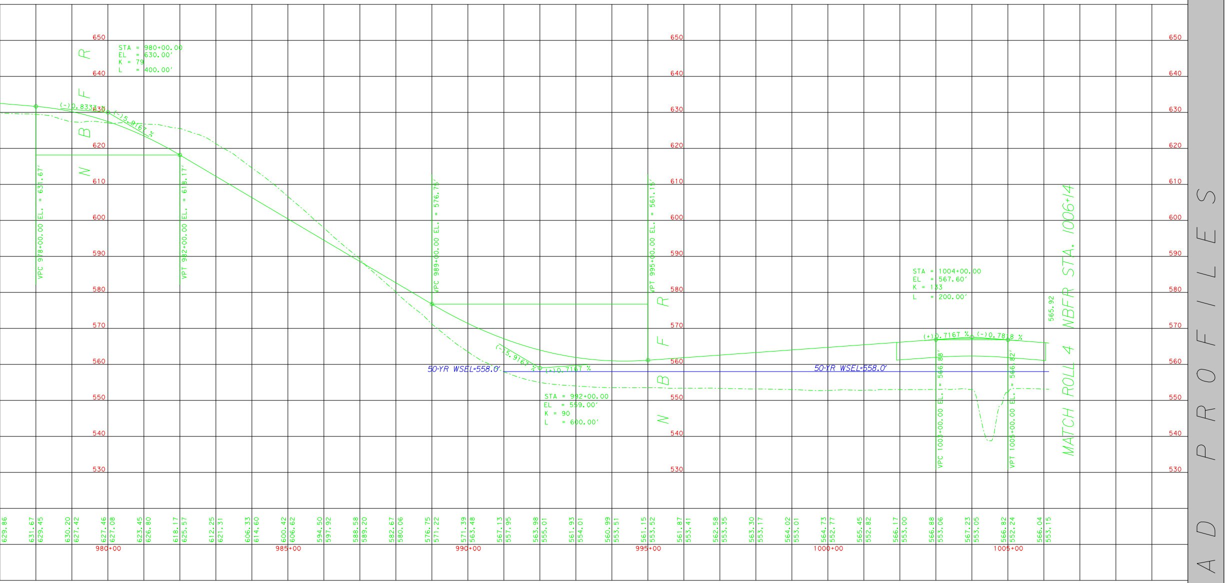
MICHAEL A. RENFROW, P.E.
PROJECT MANAGER
75050
P.E. NUMBER
09 June 2010
DATE

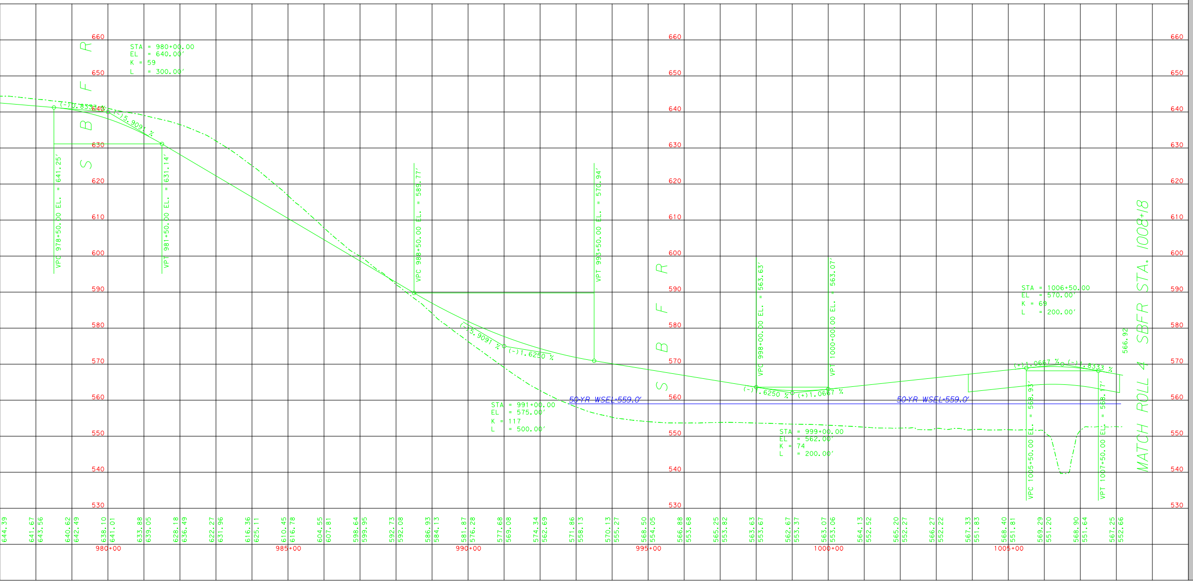
Roll 3 of 4

FRONTAGE ROAD PROFILES


NORTHBOUND FRONTAGE ROAD
BEGIN PROJECT
NBFR
649.50
EXISTING CULVERT STA.958+98
2- 30" RCP DSFL=636.58
STA = 962+00.00
EL = 641.00'
K = 147
L = 200.00'
(-)1.2143 %
(-)2.5714 %
VPC 961+00.00 EL. = 642.21'
VPT 963+00.00 EL. = 638.43'
VPC 967+00.00 EL. = 628.14'
VPT 971+00.00 EL. = 627.80'
(+)2.4000 %
STA = 969+00.00
EL = 623.00'
K = 80
L = 400.00'
EXISTING CULVERT STA.968+83
2-24" RCP DSFL=616.67
TO BE REMOVED AND REPLACED BY STORM DRAINAGE
VPC 973+00.00 EL. = 632.60'
VPT 975+00.00 EL. = 634.17'
STA = 974+00.00
EL = 635.00'
K = 62
L = 200.00'
(-)0.8333 %
650
640
630
620
610
600
590
580
570
560
550
540
530
520
510
955+00
960+00
965+00
970+00
975+00


SOUTHBOUND FRONTAGE ROAD
BEGIN PROJECT
SBFR
653.00
VPC 955+50.00 EL. = 651.50'
VPT 958+50.00 EL. = 648.00'
EXISTING CULVERT STA. 956+02
2- 30" RCP USFL 645.64
STA = 957+00.00
EL = 647.00'
K = 82
L = 300.00'
(+)0.6667 %
STA = 960+00.00
EL = 649.00'
K = 78
L = 200.00'
(-)1.8889 %
VPC 959+00.00 EL. = 648.33'
VPT 961+00.00 EL. = 647.11'
VPC 966+00.00 EL. = 637.67'
VPT 972+00.00 EL. = 639.80'
(+)2.6000 %
EXISTING CULVERT STA.969+14
2-24" RCP DSFL=634.92
TO BE REMOVED AND REPLACED BY STORM DRAINAGE
STA = 969+00.00
EL = 632.00'
K = 134
L = 600.00'
VPC 973+00.00 EL. = 642.40'
VPT 975+00.00 EL. = 644.17'
STA = 974+00.00
EL = 645.00'
K = 58
L = 200.00'
(-)0.8333 %
660
650
640
630
620
610
600
590
580
570
560
550
540
530
520
955+00
960+00
965+00
970+00
975+00


NBFR
STA = 980+00.00
EL = 630.00'
K = 79
L = 400.00'
(-)1.8333 %
(-)5.9167 %
VPC 978+00.00 EL. = 631.67'
VPT 982+00.00 EL. = 618.17'
VPC 989+00.00 EL. = 576.75'
VPT 995+00.00 EL. = 561.15'
50-YR WSEL=558.0'
(-)5.9167 %
(+)0.7167 %
STA = 992+00.00
EL = 559.00'
K = 90
L = 600.00'
NBFR
50-YR WSEL=558.0'
STA = 1004+00.00
EL = 567.60'
K = 133
L = 200.00'
(+)0.7167 %
(-)0.7818 %
VPC 1003+00.00 EL. = 566.88'
VPT 1005+00.00 EL. = 566.82'
565.92
MATCH ROLL 4 NBFR STA. 1006+14
650
640
630
620
610
600
590
580
570
560
550
540
530
980+00
985+00
990+00
995+00
1000+00
1005+00


SBFR
STA = 980+00.00
EL = 640.00'
K = 59
L = 300.00'
(-)1.8333 %
(-)5.9097 %
VPC 978+50.00 EL. = 641.25'
VPT 981+50.00 EL. = 631.14'
VPC 988+50.00 EL. = 589.77'
VPT 993+50.00 EL. = 570.94'
(-)5.9097 %
(-)1.6250 %
STA = 991+00.00
EL = 575.00'
K = 117
L = 500.00'
50-YR WSEL=559.0'
SBFR
(-)1.6250 %
(+)1.0667 %
VPC 998+00.00 EL. = 563.63'
VPT 1000+00.00 EL. = 563.07'
STA = 999+00.00
EL = 562.00'
K = 74
L = 200.00'
50-YR WSEL=559.0'
STA = 1006+50.00
EL = 570.00'
K = 69
L = 200.00'
(+)1.0667 %
(-)1.8333 %
VPC 1005+50.00 EL. = 568.93'
VPT 1007+50.00 EL. = 568.77'
566.92
MATCH ROLL 4 SBFR STA. 1008+18
660
650
640
630
620
610
600
590
580
570
560
550
540
530
980+00
985+00
990+00
995+00
1000+00
1005+00

FRONTAGE ROAD PROFILES

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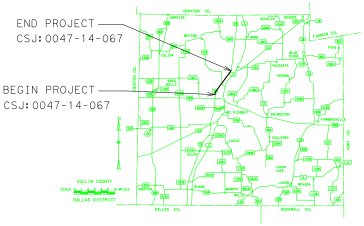
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