US 75 CSJ: 0047-14-067 ROLL 4

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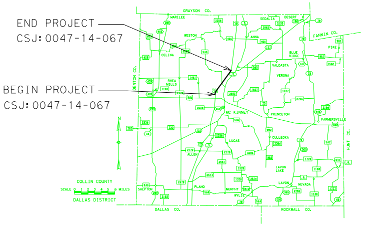
DALLAS DISTRICT
Design Schematic
William L. Hale, P.E.
District Engineer

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


END PROJECT
CSJ:0047-14-067
BEGIN PROJECT
CSJ:0047-14-067
GRAYSON CO.
FANNIN CO.
COLLIN COUNTY
DALLAS DISTRICT
DALLAS CO.
ROCKWALL CO.
MC KINNEY
SCALE
MILES

Scale:
Horizontal 1:200
Vertical 1:20

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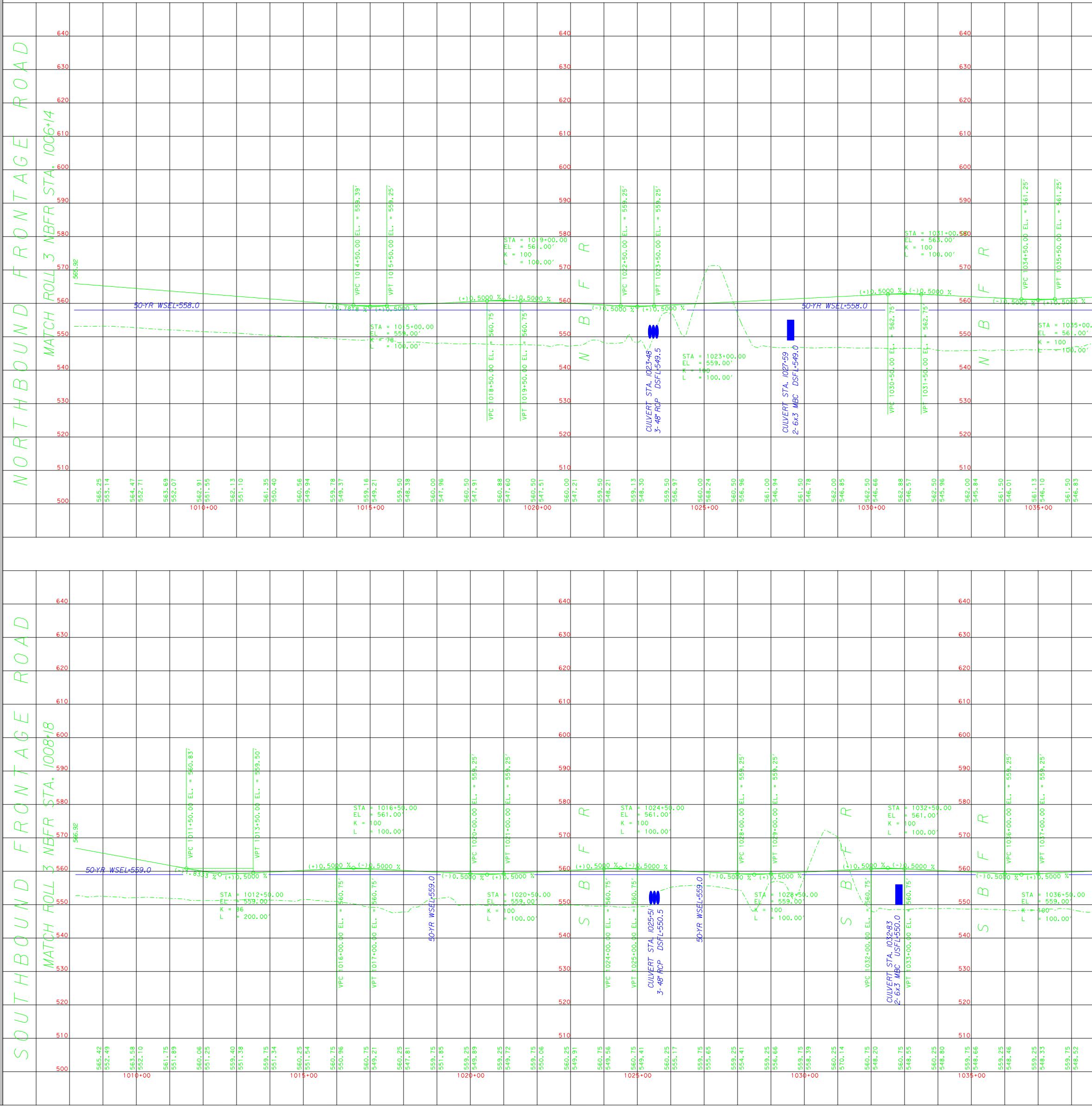
July 2010

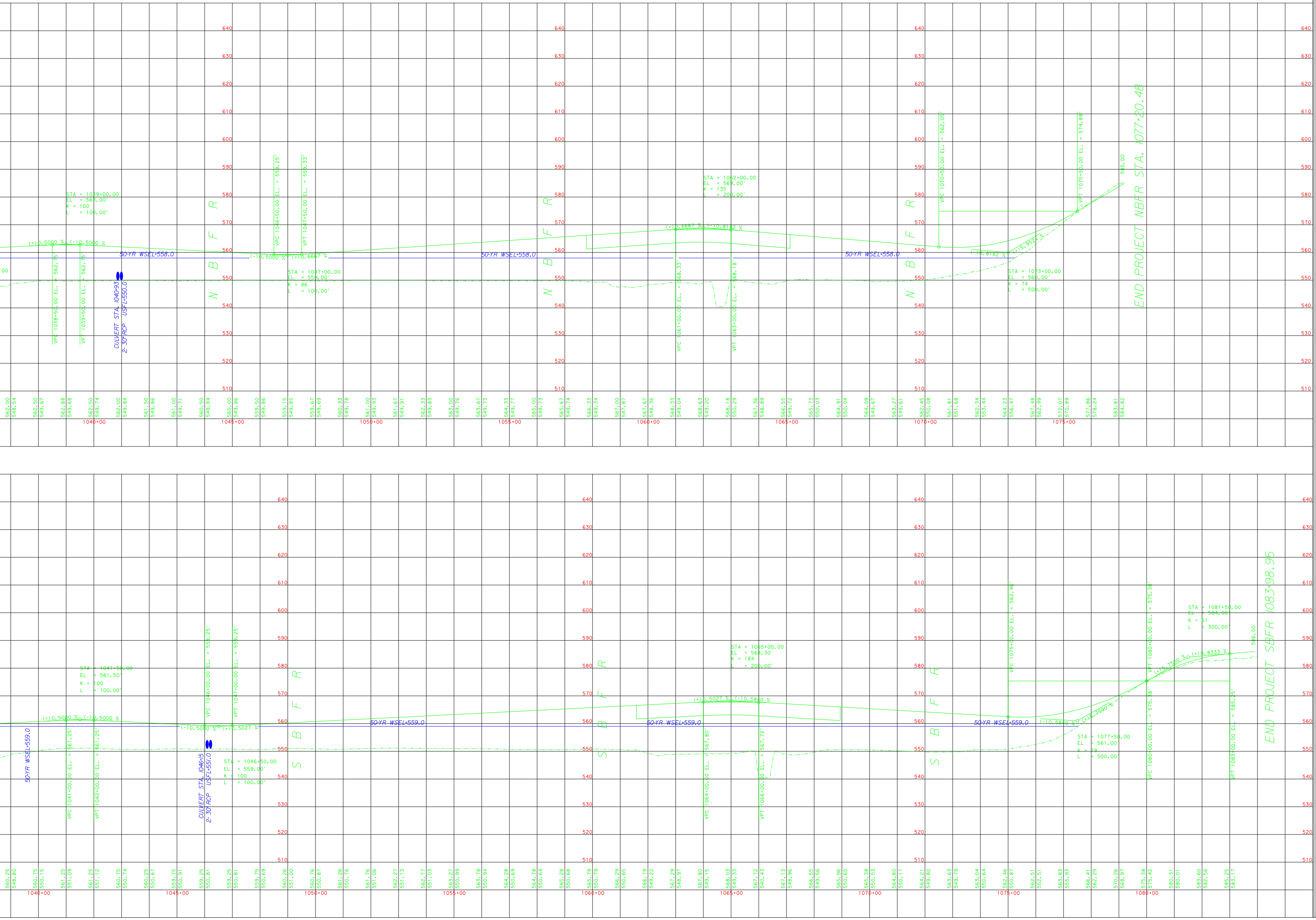
SCHEMATIC PREPARED BY:
TxDOT DALLAS DISTRICT

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

Roll 4 of 4

FRONTAGE ROAD PROFILES


NORTHBOUND FRONTAGE ROAD
MATCH ROLL 3 NBFR STA. 1006+14
50-YR WSEL=558.0
CULVERT STA. 1023+48 3-48" RCP DSFL=549.5
CULVERT STA. 1027+59 2-6X3 MBC DSFL=549.0
NBFR
1010+00
1015+00
1020+00
1025+00
1030+00
1035+00
SOUTHBOUND FRONTAGE ROAD
MATCH ROLL 3 NBFR STA. 1008+18
50-YR WSEL=559.0
CULVERT STA. 1025+51 3-48" RCP DSFL=550.5
CULVERT STA. 1032+83 2-6X3 MBC USFL=550.0
SBFR
500
510
520
530
540
550
560
570
580
590
600
610
620
630
640


STA = 1039+00.00
EL = 563.00'
K = 100
L = 100.00'
(+)0.5000 % (-)0.5000 %
VPC 1038+50.00 EL. = 562.75'
VPT 1039+50.00 EL. = 562.75'
50-YR WSEL=558.0
CULVERT STA. 1040+93
2-30"RCP USFL=550.0
NBFR
VPC 1046+50.00 EL. = 559.25'
VPT 1047+50.00 EL. = 559.33'
(-)0.5000 % (+)0.6667 %
STA = 1047+00.00
EL = 559.00'
K = 86
L = 100.00'
STA = 1062+00.00
EL = 569.00'
K = 135
L = 200.00'
(+)0.6667 % (-)0.8182 %
VPC 1061+00.00 EL. = 568.33'
VPT 1063+00.00 EL. = 568.18'
VPC 1070+50.00 EL. = 562.05'
VPT 1075+50.00 EL. = 574.88'
(-)0.8182 % (+)5.9524 %
STA = 1073+00.00
EL = 560.00'
K = 74
L = 500.00'
585.00
END PROJECT NBFR STA. 1077+20.48
1040+00
1045+00
1050+00
1055+00
1060+00
1065+00
1070+00
1075+00
STA = 1041+50.00
EL = 561.50'
K = 100
L = 100.00'
(+)0.5000 % (-)0.5000 %
50-YR WSEL=559.0
VPC 1041+00.00 EL. = 561.25'
VPT 1042+00.00 EL. = 561.25'
CULVERT STA. 1046+15
2-30"RCP USFL=551.0
VPC 1046+00.00 EL. = 559.25'
VPT 1047+00.00 EL. = 559.25'
(-)0.5000 % (+)0.5027 %
STA = 1046+50.00
EL = 559.00'
K = 100
L = 100.00'
SBFR
STA = 1065+00.00
EL = 568.30'
K = 184
L = 200.00'
(+)0.5027 % (-)0.5840 %
VPC 1064+00.00 EL. = 567.80'
VPT 1066+00.00 EL. = 567.72'
VPC 1075+00.00 EL. = 562.46'
VPT 1080+00.00 EL. = 575.38'
VPC 1080+00.00 EL. = 575.38'
(-)0.5840 % (+)5.7500 %
STA = 1077+50.00
EL = 561.00'
K = 79
L = 500.00'
(+)5.7500 % (+)0.8333 %
STA = 1081+50.00
EL = 584.00'
K = 51
L = 300.00'
VPT 1083+00.00 EL. = 585.25'
586.00
END PROJECT SBFR 1083+98.95
1040+00
1045+00
1050+00
1055+00
1060+00
1065+00
1070+00
1075+00
1080+00
640
630
620
610
600
590
580
570
560
550
540
530
520
510

FRONTAGE ROAD PROFILES

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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

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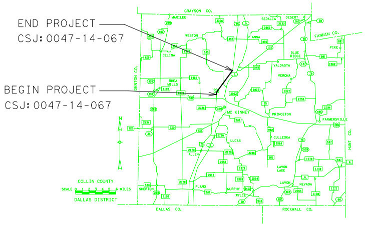
END PROJECT
CSJ:0047-14-067
BEGIN PROJECT
CSJ:0047-14-067
GRAYSON CO.
MARILEE
WESTON
ANNA
SEDALIA
DESERT
FANNIN CO.
PIKE
CELINA
BLUE RIDGE
VALDASTA
VERONA
DENTON CO.
RHEA MILLS
MC KINNEY
PRINCETON
FARMERSVILLE
N
CULLEOKA
LUCAS
ALLEN
HUNT CO.
LAVON LAKE
COLLIN COUNTY
SCALE 0 1 2 3 4 5 6 MILES
DALLAS DISTRICT
SHEPTON
PLANO
MURPHY
WYLIE
LAVON
NEVADA
DALLAS CO.
ROCKWALL CO.

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 4 of 4

US 75 CSJ: 0047-14-067 ROLL 4