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**Texas Department of Transportation**

# DALLAS DISTRICT
WILLIAM L. HALE P.E.,
DISTRICT ENGINEER

COLLIN COUNTY

DESIGN SCHEMATIC
SH 289
PROJECT LENGTH: 12.992 MILES (68,600')

CSJ #0091-03-022
LIMITS: 500' NORTH OF GRAYSON CR 60
(GRAYSON COUNTY LINE)
TO BUS 289
LENGTH: 2.348 MILES

CSJ #0091-03-021
LIMITS: BUS 289 TO FM 455
LENGTH: 3.297 MILES

CSJ #0091-04-050
LIMITS: FM 455 TO 1/4 MILE NORTH OF US 380
LENGTH: 7.347 MILES

DESIGN SPEED: 60 MPH (RURAL)
45 MPH (URBAN)
40 MPH (FM STREETS)
30 MPH (CR & LOCAL STREETS)
20 MPH (CR 60)
FUNCTIONAL CLASS: RURAL AND URBAN PRINCIPAL ARTERIAL
ROLL 6 of 7

FEBRUARY 2009

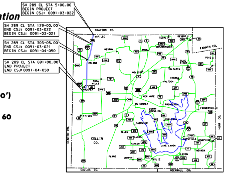
| ROADWAY | 2010 ADT | 2030 ADT | DESIGN SPEED |
|---|---|---|---|
| SH 289 (RURAL) | 20,100 | 31,000 | MEETS OR EXCEEDS 60 MPH |
| SH 289 (URBAN) | 20,100 | 31,000 | MEETS OR EXCEEDS 45 MPH |
| BUS 289 | 2,800 | 3,400 | MEETS OR EXCEEDS 30 MPH |
| CR 134 | 800 | 1,200 | MEETS OR EXCEEDS 30 MPH |
| FM 455 | 4,800 | 6,700 | MEETS OR EXCEEDS 40 MPH |
| BUS 289 | 3,100 | 4,200 | MEETS OR EXCEEDS 30 MPH |
| FM 1461 | 2,900 | 4,000 | MEETS OR EXCEEDS 40 MPH |
| CR 48/CR 81 | 1,400 | 2,000 | MEETS OR EXCEEDS 30 MPH |
| FM 1193 | 3,100 | 4,200 | MEETS OR EXCEEDS 40 MPH |
| CR 78/E 1st ST | 1,800 | 2,500 | MEETS OR EXCEEDS 30 MPH |
| CR 60 | - | - | MEETS OR EXCEEDS 20 MPH (RR CROSSING) |
| ALL OTHERS | - | - | MEETS OR EXCEEDS 30 MPH |

Source of data: Texas Department of Transportation,
Programming and Planning Division Memorandum
March 27, 2006

NOTES:

1. MEDIAN OPENINGS ARE PRELIMINARY AND SUBJECT TO CHANGE. FINAL MEDIAN OPENING LOCATIONS TO BE DETERMINED DURING PS&E AND IN COORDINATION WITH THE TOWN OF PROSPER AND THE CITY OF CELINA.

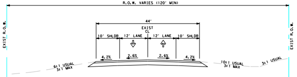
2. THE WSE SHOWN AT EACH CULVERT IS BASED ON A 25 YEAR STORM EVENT.


SH 289 CL STA 5+00.00
BEGIN PROJECT
BEGIN CSJ: 0091-03-022
SH 289 CL STA 129+00.00
END CSJ: 0091-03-022
BEGIN CSJ: 0091-03-021
SH 289 CL STA 303+05.00
END CSJ: 0091-03-021
BEGIN CSJ: 0091-04-050
SH 289 CL STA 691+00.00
END PROJECT
END CSJ:0091-04-050
GRAYSON CO.
MARILEE
WESTON
ANNA
SEDALIA
DESERT
WESTMINSTER
FANNIN CO.
PIKE
BLUE RIDGE
CELINA
MELISSA
VALDASTA
VERONA
ALTOGA
RHEA MILLS
PROSPER
NEW HOPE
MC KINNEY
PRINCETON
FARMERSVILLE
LOWRY CROSSING
FRISCO
CULLEOKA
FAIRVIEW
ALLEN
LUCAS
COPEVILLE
JOSEPHINE
PARKER
LAKE LAVON
NEVADA
LAVON
PLANO
MURPHY
WYLIE
COLLIN CO.
DENTON CO.
HUNT CO.
DALLAS CO.
ROCKWALL CO.

VICINITY MAP

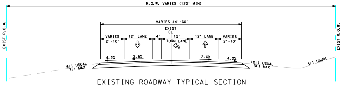
COLLIN COUNTY
SCALE 0 1 2 3 4 5 6 MILES
DISTRICT 18

| BEGIN STATION | END STATION | CSJ | FUNCT. CLASS | DESIGN SPEED |
|---|---|---|---|---|
| 5+00.00 | 129+00.00 | 0091-03-022 | RURAL | 60 MPH |
| 129+00.00 | 303+05.00 | 0091-03-021 | URBAN | 45 MPH |
| 303+05.00 | 691+00.00 | 0091-04-050 | URBAN | 45 MPH |


R.O.W. VARIES (120' MIN)
EXIST R.O.W.
44'
EXIST CL
10' SHLDR
12' LANE
12' LANE
10' SHLDR
4.2%
2.6%
2.6%
4.2%
6:1 USUAL
3:1 MAX
10:1 USUAL
3:1 MAX
3:1 USUAL

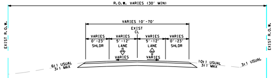
EXISTING ROADWAY TYPICAL SECTION

BEGIN PROJECT TO STA 297+20
STA 312+50 TO STA 368+43
STA 385+85 TO STA 523+50
STA 539+00 TO STA 625+30
STA 653+00 TO END PROJECT


R.O.W. VARIES (120' MIN)
EXIST R.O.W.
VARIES 44'-60'
EXIST CL
VARIES 2'-10'
12' LANE
4'
12' TURN LANE
12' LANE
VARIES 2'-10'
4.2%
2.6%
2.6%
4.2%
6:1 USUAL
3:1 MAX
10:1 USUAL
3:1 MAX
3:1 USUAL

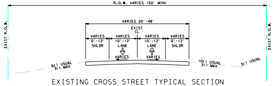
EXISTING ROADWAY TYPICAL SECTION

STA 297+20 TO STA 312+50
STA 368+43 TO STA 385+85
STA 523+50 TO STA 539+00
STA 625+30 TO STA 653+00


R.O.W. VARIES (30' MIN)
EXIST R.O.W.
VARIES 10'-70'
EXIST CL
VARIES 0'-23' SHLDR
VARIES 5'-12' LANE
VARIES 5'-12' LANE
VARIES 0'-23' SHLDR
VARIES
VARIES
6:1 USUAL
3:1 MAX
10:1 USUAL
3:1 MAX
3:1 USUAL

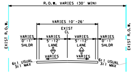
EXISTING CROSS STREET TYPICAL SECTION
ASPHALT PAVING

CR 107
CR 60
CR 106
BUS 289
CR 134
CR 94
SHADE TREE
MALLONE
FM 455
ELM
ASH
CR 91
CR 55
CR 53
CR 88
CR 83
FM 1461
CR 81
CR 48
PASEWARK
HICKORY CREEK
FM 1193
CR 78
CRAIG
CR 73


R.O.W. VARIES (50' MIN)
EXIST R.O.W.
VARIES 20'-48'
EXIST CL
VARIES 0'-12' SHLDR
VARIES 10'-12' LANE
VARIES 10'-12' LANE
VARIES 0'-12' SHLDR
VARIES
VARIES
6:1 USUAL
3:1 MAX
10:1 USUAL
3:1 MAX
3:1 USUAL

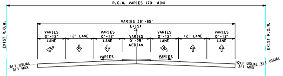
EXISTING CROSS STREET TYPICAL SECTION
CONCRETE PAVING

LAKE VIEW
CR 98
CHANDLER
CR 77
BRIDGEPORT


R.O.W. VARIES (30' MIN)
EXIST R.O.W.
VARIES 10'-26'
EXIST CL
VARIES 0'-1' SHLDR
VARIES 5'-12' LANE
VARIES 5'-12' LANE
VARIES 0'-1' SHLDR
VARIES
VARIES
6:1 USUAL
3:1 MAX
6:1 USUAL
3:1 MAX

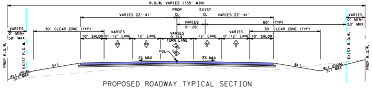
EXISTING CROSS STREET TYPICAL SECTION
UNPAVED

CR 102
CR 105
CR 100
CR 99
CR 95
JAMES
KINNEY
CR 1211
CR 89


R.O.W. VARIES (70' MIN)
EXIST R.O.W.
VARIES 38'-85'
EXIST CL
VARIES 0'-12' LANE
12' LANE
VARIES 0'-12' LANE
VARIES 0'-25' MEDIAN
VARIES 0'-12' LANE
12' LANE
VARIES 0'-12' LANE
VARIES
VARIES
6:1 USUAL
3:1 MAX
10:1 USUAL
3:1 MAX
3:1 USUAL

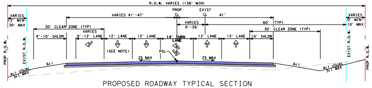
EXISTING CROSS STREET TYPICAL SECTION
CONCRETE PAVING w/ MEDIAN

CR 96
CARTER RANCH
STONE CREEK


R.O.W. VARIES (135' MIN)
PROP CL
EXIST CL
VARIES 22'-41'
VARIES 22'-41'
VARIES 0' MIN-58' MAX
VARIES 0' MIN-53' MAX
30' CLEAR ZONE (TYP)
VARIES 0'-26'
60' (TYP)
30' CLEAR ZONE (TYP)
10' SHLDR
VARIES 0'-12' LANE
12' LANE
VARIES 0'-14' TURN LANE
12' LANE
VARIES 0'-12' LANE
10' SHLDR
PGL
2% MAX
2% MAX
6:1
6:1
4:1 USUAL
3:1 MAX
PROP R.O.W.
EXIST R.O.W.

PROPOSED ROADWAY TYPICAL SECTION
4 LANE RURAL w/ CONTINUOUS LEFT-TURN LANE

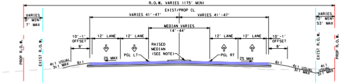
BEGIN PROJECT TO STA 88+48
STA 97+37 TO STA 124+50


R.O.W. VARIES (138' MIN)
PROP CL
EXIST CL
VARIES 41'-47'
41'
VARIES 12' MIN-30' MAX
VARIES 0' MIN-10' MAX
30' CLEAR ZONE (TYP)
VARIES 0'-26'
60' (TYP)
30' CLEAR ZONE (TYP)
4'-10' SHLDR
VARIES 0'-12' LANE
12' LANE
(SEE NOTE)
12' LANE
14' TURN LANE
12' LANE
12' LANE
10' SHLDR
PGL
2% MAX
2% MAX
6:1
6:1
4:1 USUAL
3:1 MAX
PROP R.O.W.
EXIST R.O.W.

PROPOSED ROADWAY TYPICAL SECTION
4 LANE RURAL w/ RIGHT-TURN LANE

STA 88+48 TO STA 97+37

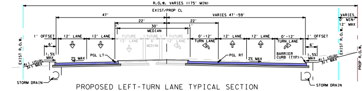
NOTE: THRU LANE STRIPED CLOSED
STA 9+65 TO STA 18+10


R.O.W. VARIES (175' MIN)
EXIST/PROP CL
VARIES 41'-47'
VARIES 41'-47'
VARIES 0' MIN-7' MAX
VARIES 12' MIN-53' MAX
MEDIAN VARIES 14'-44'
10'-1' OFFSET
8'
12' LANE
12' LANE
RAISED MEDIAN (SEE NOTE)
12' LANE
12' LANE
10'-1' OFFSET
8'
PGL LT
PGL RT
2% MAX
2% MAX
6:1
6:1
4:1 USUAL
3:1 MAX
PROP R.O.W.
EXIST R.O.W.

PROPOSED ROADWAY TYPICAL SECTION
TRANSITION 4 LANE RURAL TO 4 LANE URBAN

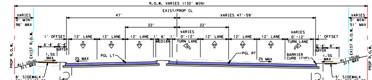
STA 124+50 TO STA 129+00

NOTE: RAISED ASPHALT MEDIAN
STA 127+90 TO STA 129+00


R.O.W. VARIES (175' MIN)
EXIST/PROP CL
47'
VARIES 47'-59'
22'
22'
1'
30' MEDIAN
1'
VARIES 0' MIN-12' MAX
1' OFFSET
6'
12' LANE
12' LANE
FUTURE 12' LANE
1' FUTURE 1' 6' MEDIAN
FUTURE 12' LANE
0'-12' TURN LANE
12' LANE
12' LANE
0'-12' TURN LANE
1' OFFSET
6'
1.5% MAX
2% MAX
PGL LT
PGL RT
2% MAX
BARRIER CURB (TYP)
1.5% MAX
4:1 USUAL
3:1 MAX
STORM DRAIN
STORM DRAIN
PROP R.O.W.
EXIST R.O.W.

PROPOSED LEFT-TURN LANE TYPICAL SECTION
4 LANE URBAN

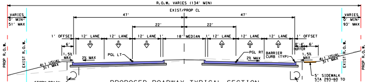
STA 129+00 TO STA 134+04


R.O.W. VARIES (132' MIN)
EXIST/PROP CL
47'
VARIES 47'-59'
22'
22'
VARIES 0' MIN-96' MAX
VARIES 0' MIN-51' MAX
1' OFFSET
6'-8'
0'-4' BUFFER
12' LANE
12' LANE
12' LANE
1' 6' 1' MEDIAN
VARIES 0'-12' TURN LANE
12' LANE
12' LANE
12' LANE
VARIES 0'-12' TURN LANE
1' OFFSET
0'-4' BUFFER
6'
1.5% MAX
2% MAX
PGL LT
PGL RT
2% MAX
BARRIER CURB (TYP)
1.5% MAX
4:1 USUAL
3:1 MAX
8' SIDEWALK
STA 104+00 TO
STA 154+40
STORM DRAIN
5' SIDEWALK
STA 299+75 TO
STA 305+20
STORM DRAIN
PROP R.O.W.
EXIST R.O.W.

PROPOSED LEFT-TURN LANE TYPICAL SECTION
6 LANE URBAN

| | | |
|---|---|---|
| STA 134+04 TO STA 159+36 | STA 320+07 TO STA 330+48 | STA 467+43 TO STA 477+71 |
| STA 175+60 TO STA 185+75 | STA 338+95 TO STA 349+45 | STA 561+05 TO STA 571+95 |
| STA 254+70 TO STA 265+45 | STA 367+66 TO STA 383+45 | STA 605+67 TO STA 611+84 |
| STA 275+26 TO STA 292+93 | STA 413+67 TO STA 424+43 | STA 615+25 TO STA 635+29 |
| STA 299+75 TO STA 312+30 | STA 440+29 TO STA 450+63 | STA 649+55 TO STA 659+91 |

NOTE: SB LEFT TURN AS SHOWN REVERSE SECTION FOR NB LEFT TURN.


R.O.W. VARIES (134' MIN)
EXIST/PROP CL
47'
47'
22'
22'
VARIES 0' MIN-51' MAX
VARIES 0' MIN-93' MAX
1' OFFSET
6'
12' LANE
12' LANE
12' LANE
1'
18' MEDIAN
1'
12' LANE
12' LANE
12' LANE
1' OFFSET
0'-4' BUFFER
6'
1.5% MAX
2% MAX
PGL LT
PGL RT
2% MAX
BARRIER CURB (TYP)
1.5% MAX
4:1 USUAL
3:1 MAX
STORM DRAIN
5' SIDEWALK
STA 293+60 TO
STA 299+75
STORM DRAIN
PROP R.O.W.
EXIST R.O.W.

PROPOSED ROADWAY TYPICAL SECTION
6 LANE URBAN

| | | |
|---|---|---|
| STA 159+36 TO STA 175+60 | STA 330+48 TO STA 338+95 | STA 477+71 TO STA 520+80 |
| STA 185+75 TO STA 254+70 | STA 349+45 TO STA 367+66 | STA 539+24 TO STA 561+05 |
| STA 265+45 TO STA 275+26 | STA 383+45 TO STA 413+67 | STA 571+95 TO STA 576+40 |
| STA 292+93 TO STA 299+75 | STA 424+43 TO STA 440+29 | STA 592+62 TO STA 605+67 |
| STA 312+30 TO STA 320+07 | STA 450+63 TO STA 467+43 | STA 611+84 TO STA 615+25 |
| | | STA 659+91 TO STA 687+30 |

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| JOSEPH W. ATWOOD | 65631 | 02-20-09 |
|---|---|---|
| Type or Print Name | PE# | Date |

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T.B.P.E. Firm # 2614

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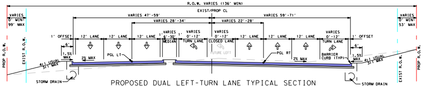
DALLAS DISTRICT
SH 289
COLLIN COUNTY
DESIGN SCHEMATIC
ROLL 6 of 7

| DESIGNED: - | FED. RD. DIV. NO. | STATE | PROJECT NO. | | | HIGHWAY NO. |
|---|---|---|---|---|---|---|
| CHECKED: - | 6 | TEXAS | SEE TITLE SHEET | | | SH 289 |
| DRAWN: - | STATE DIST. | COUNTY | CONTROL NO. | SECTION NO. | JOB NO. | SHEET NO. |
| CHECKED: - | DALLAS | COLLIN | 0091 | 03 | 021 | |

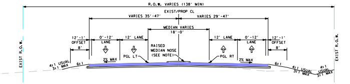
ETC.


R.O.W. VARIES (136' MIN)
EXIST/PROP CL
VARIES 47'-59'
VARIES 28'-34'
VARIES 22'-28'
VARIES 59'-71'
VARIES 0' MIN- 99' MAX
VARIES 0' MIN- 53' MAX
1' OFFSET
6'
12' LANE
VARIES 6'-30' MEDIAN
VARIES 0'-12' TURN LANE
VARIES 0'-12' CLOSED LANE
FUTURE LEFT
VARIES 0'-12' TURN LANE
1.5% MAX
2% MAX
PGL LT
PGL RT
BARRIER CURB (TYP)
4:1 USUAL 3:1 MAX
STORM DRAIN
PROP R.O.W.
EXIST R.O.W.

## PROPOSED DUAL LEFT-TURN LANE TYPICAL SECTION 6 LANE URBAN

STA 520+80 TO STA 539+24
STA 576+40 TO STA 592+62
STA 635+29 TO STA 649+55

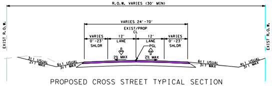
NOTE: SB LEFT TURN AS SHOWN.
REVERSE SECTION FOR
NB LEFT TURN.


R.O.W. VARIES (138' MIN)
EXIST/PROP CL
VARIES 35'-47'
VARIES 29'-47'
MEDIAN VARIES 18'-0'
12'-1' OFFSET
8'
0'-12' LANE
12' LANE
RAISED MEDIAN NOSE (SEE NOTE)
PGL LT
PGL RT
2% MAX
6:1
4:1 USUAL 3:1 MAX
EXIST R.O.W.

## PROPOSED ROADWAY TYPICAL SECTION TRANSITION 4 LANE URBAN TO 2 LANE RURAL

STA 687+30 TO END PROJECT

NOTE: RAISED ASPHALT MEDIAN NOSE
STA 687+30 TO STA 687+39


R.O.W. VARIES (30' MIN)
VARIES 24'-70'
EXIST/PROP CL
VARIES 0'-23' SHLDR
12' LANE
PGL
2% MAX
3:1 USUAL 2:1 MAX
6:1 USUAL 3:1 MAX
4:1 USUAL 3:1 MAX
EXIST R.O.W.

## PROPOSED CROSS STREET TYPICAL SECTION ASPHALT PAVING

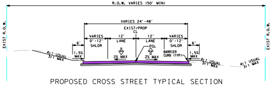
CR 107
CR 60
CR 106
BUS 289
CR 134

CR 94
SHADE TREE
MALLONE
FM 455
ELM

ASH
CR 91
CR 55
CR 53
CR 88

CR 83
FM 1461
CR 81
CR 48
PASEWARK

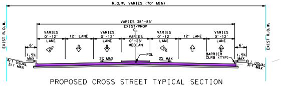
HICKORY CREEK
FM 1193
CR 78
CRAIG
CR 73


R.O.W. VARIES (50' MIN)
VARIES 24'-48'
EXIST/PROP CL
6'
VARIES 0'-12' SHLDR
12' LANE
PGL
1.5% MAX
2% MAX
BARRIER CURB (TYP)
4:1 USUAL 3:1 MAX
EXIST R.O.W.

## PROPOSED CROSS STREET TYPICAL SECTION CONCRETE PAVING

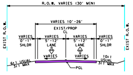
LAKE VIEW
CR 98
CHANDLER

CR 77
BRIDGEPORT


R.O.W. VARIES (70' MIN)
VARIES 38'-85'
EXIST/PROP CL
6'
VARIES 0'-12' LANE
12' LANE
VARIES 0'-25' MEDIAN
PGL
1.5% MAX
2% MAX
BARRIER CURB (TYP)
4:1 USUAL 3:1 MAX
EXIST R.O.W.

## PROPOSED CROSS STREET TYPICAL SECTION CONCRETE PAVING w/ MEDIAN

CR 96
CARTER RANCH
STONE CREEK

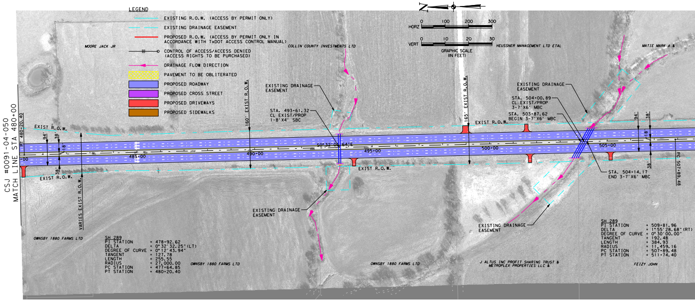

R.O.W. VARIES (30' MIN)
VARIES 10'-26'
EXIST/PROP CL
VARIES 0'-1' SHLDR
VARIES 5'-12' LANE
VARIES
PGL
6:1 USUAL 3:1 MAX
10:1 USUAL 3:1 MAX
EXIST R.O.W.

## PROPOSED CROSS STREET TYPICAL SECTION ASPHALT PAVING

CR 102
CR 105
CR 100

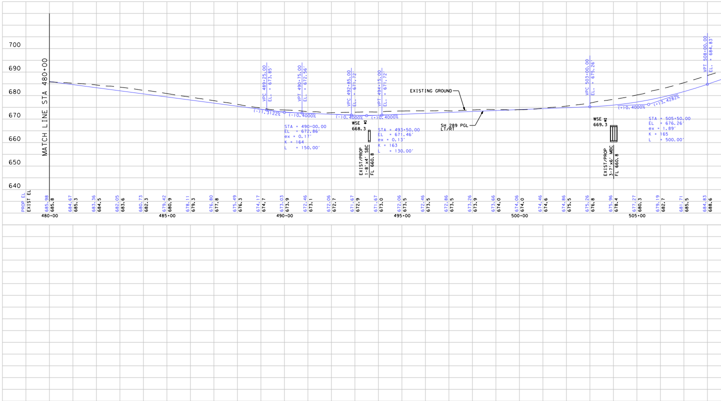
CR 99
CR 95
JAMES*

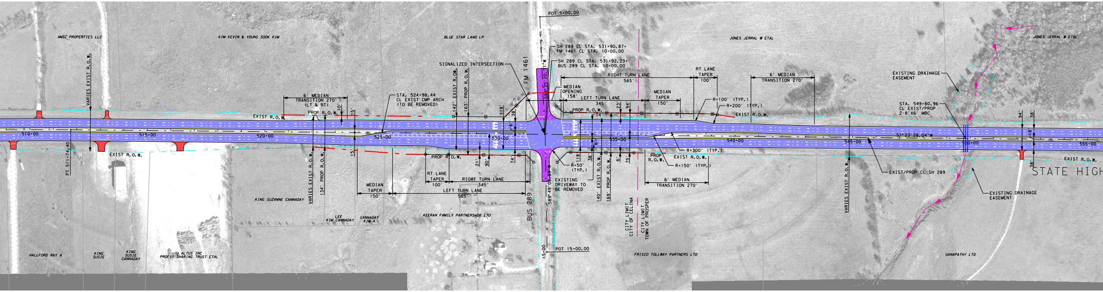
KINNEY*
CR 1211
CR 89*


CSJ #0091-04-050
MATCH LINE STA 480+00
LEGEND
EXISTING R.O.W. (ACCESS BY PERMIT ONLY)
EXISTING DRAINAGE EASEMENT
PROPOSED R.O.W. (ACCESS BY PERMIT ONLY IN ACCORDANCE WITH TxDOT ACCESS CONTROL MANUAL)
CONTROL OF ACCESS/ACCESS DENIED (ACCESS RIGHTS TO BE PURCHASED)
DRAINAGE FLOW DIRECTION
PAVEMENT TO BE OBLITERATED
PROPOSED ROADWAY
PROPOSED CROSS STREET
PROPOSED DRIVEWAYS
PROPOSED SIDEWALKS
N
HORZ 0 100 200 300
VERT 0 10 20 30
GRAPHIC SCALE (IN FEET)
MOORE JACK JR
COLLIN COUNTY INVESTMENTS LTD
HEUSSNER MANAGEMENT LTD ETAL
MATIE MARK A &
OWNSBY 1880 FARMS LTD
J ALTUS INC PROFIT SHARING TRUST & METROPLEX PROPERTIES LLC &
FEIZY JOHN
PT 480+20.40
EXIST R.O.W.
VARIES EXIST R.O.W.
160' EXIST R.O.W.
165' EXIST R.O.W.
94'
38'
18'
485+00
490+00
495+00
500+00
505+00
S0°32'08.64"E
EXISTING DRAINAGE EASEMENT
STA. 493+61.32 CL EXIST/PROP 1-8'X4' SBC
STA. 504+00.89 CL EXIST/PROP 3-7'X6' MBC
STA. 503+87.62 BEGIN 3-7'X6' MBC
STA. 504+14.17 END 3-7'X6' MBC
PC 507+89.48

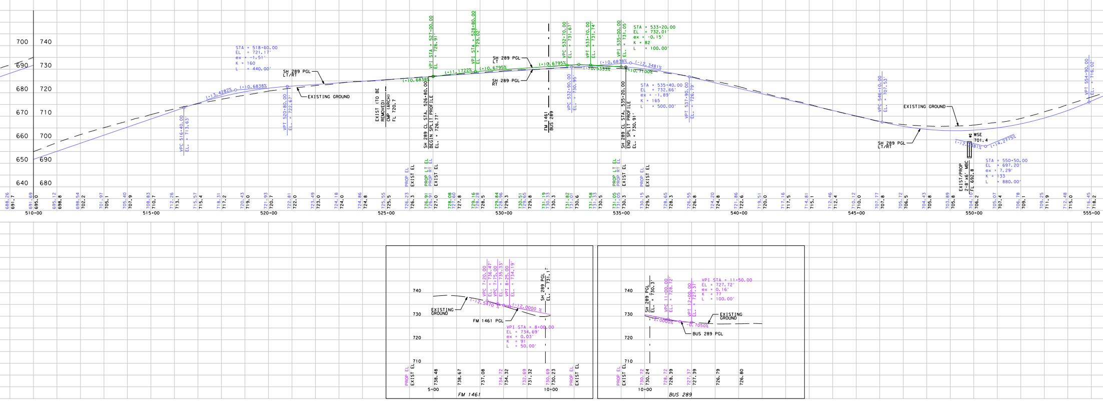
SH 289
PI STATION = 478+92.62
DELTA = 0°32'32.25"(LT)
DEGREE OF CURVE = 0°12'43.94"
TANGENT = 127.78
LENGTH = 255.55
RADIUS = 27,000.00
PC STATION = 477+64.85
PT STATION = 480+20.40

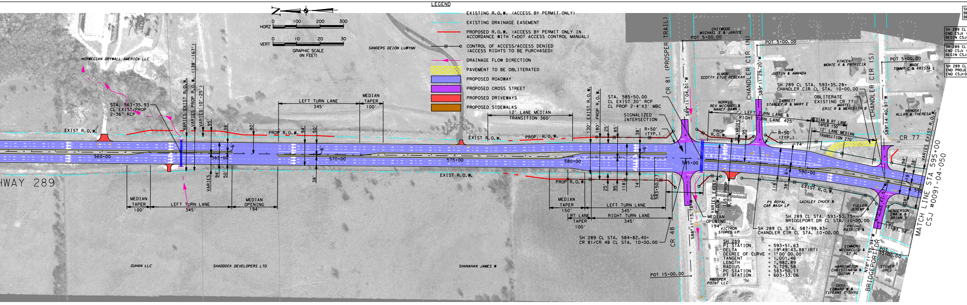
SH 289
PI STATION = 509+81.96
DELTA = 1°55'28.68"(RT)
DEGREE OF CURVE = 0°30'00.00"
TANGENT = 192.48
LENGTH = 384.93
RADIUS = 11,459.16
PC STATION = 507+89.48
PT STATION = 511+74.40



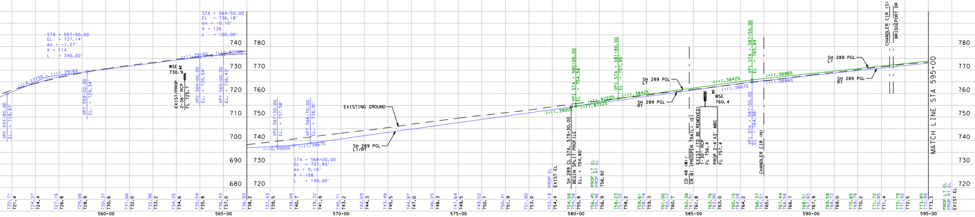

AMSC PROPERTIES LLC
KIM KEVIN & YOUNG SOOK KIM
BLUE STAR LAND LP
JONES JERRAL W ETAL
JONES JERRAL W ETAL
POT 5+00.00
SH 289 CL STA. 531+90.87=
FM 1461 CL STA. 10+00.00
SH 289 CL STA. 531+92.23=
BUS 289 CL STA. 10+00.00
SIGNALIZED INTERSECTION
FM 1461
RIGHT TURN LANE 565'
RT LANE TAPER 100'
6' MEDIAN TRANSITION 270'
MEDIAN OPENING 158'
LEFT TURN LANE 345'
MEDIAN TAPER 150'
R=100' (TYP.)
R=200' (TYP.)
EXIST R.O.W.
EXISTING DRAINAGE EASEMENT
STA. 549+80.96
CL EXIST/PROP
2-8'X6' MBC
6' MEDIAN TRANSITION 270' (LT & RT)
STA. 524+98.44
CL EXIST CMP ARCH
(TO BE REMOVED)
PROP R.O.W.
VARIES EXIST R.O.W.
PT 511+74.40
510+00
515+00
520+00
525+00
530+00
535+00
540+00
545+00
550+00
555+00
S1°23'28.04"W
EXIST R.O.W.
PROP R.O.W.
RT LANE TAPER 100'
RIGHT TURN LANE 345'
LEFT TURN LANE 565'
MEDIAN TAPER 150'
R=50' (TYP.)
EXISTING DRIVEWAY TO BE REMOVED
R=300' (TYP.)
R=150' (TYP.)
6' MEDIAN TRANSITION 270'
EXIST/PROP CL SH 289
EXISTING DRAINAGE EASEMENT
STATE HIGH
BUS 289
POT 15+00.00
CITY LIMIT CITY OF CELINA
CITY LIMIT TOWN OF PROSPER
VARIES EXIST R.O.W.
140' EXIST R.O.W.
169' PROP R.O.W.
134' PROP R.O.W.
142' EXIST R.O.W.
163' PROP R.O.W.
KING SUZANNE CANNADAY
LEE KIM CANNADAY
CANNADAY KIM A
KEERAN FAMILY PARTNERSHIP LTD
FRISCO TOLLWAY PARTNERS LTD
GANAPATHY LTD
HALLFORD RAY A
KING SUSIE
KING SUSIE CANNADAY
U ALTUS INC PROFIT SHARING TRUST ETAL

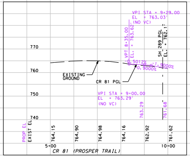
| NORTHBOUND CROSS SLOPE TRANSITION TABLE | | |
|---|---|---|
| EVENT | STATION | CROSS SLOPE |
| BEGIN SE TRANSITION | 527+00.00(LT) | -2.00 |
| END SE TRANSITION | 528+80.00(LT) | +2.00 |
| BEGIN SE TRANSITION | 533+20.00(LT) | +2.00 |
| END SE TRANSITION | 535+00.00(LT) | -2.00 |

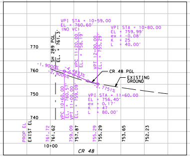


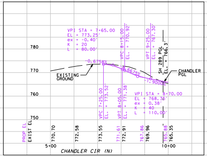

LEGEND
EXISTING R.O.W. (ACCESS BY PERMIT ONLY)
EXISTING DRAINAGE EASEMENT
PROPOSED R.O.W. (ACCESS BY PERMIT ONLY IN ACCORDANCE WITH TxDOT ACCESS CONTROL MANUAL)
CONTROL OF ACCESS/ACCESS DENIED (ACCESS RIGHTS TO BE PURCHASED)
DRAINAGE FLOW DIRECTION
PAVEMENT TO BE OBLITERATED
PROPOSED ROADWAY
PROPOSED CROSS STREET
PROPOSED DRIVEWAYS
PROPOSED SIDEWALKS
HORZ 0 100 200 300
VERT 0 10 20 30
GRAPHIC SCALE (IN FEET)
HWAY 289
NORWEGIAN DRYWALL AMERICA LLC
SANDERS DEION LUWYNN
STA. 563+35.93 CL EXIST/PROP 2-36" RCP
EXIST R.O.W.
PROP R.O.W.
LEFT TURN LANE 345'
MEDIAN TAPER 100'
MEDIAN OPENING 194'
12' LANE MEDIAN TRANSITION 360'
STA. 585+50.00 CL EXIST 30" RCP CL PROP 2-4'X3' MBC
SIGNALIZED INTERSECTION
R=50' (TYP.)
RT LANE TAPER 100'
RIGHT TURN LANE 345'
SH 289 CL STA. 584+82.40= CR 81/CR 48 CL STA. 10+00.00
CR 81 (PROSPER TRAIL)
CR 48
CHANDLER CIR (N)
CHANDLER CIR (S)
BRIDGEPORT DR
CR 77
POT 5+00.00
POT 15+00.00
SH 289 CL STA. 593+35.28= CHANDLER CIR CL STA. 10+00.00
OBLITERATE EXISTING CR 77
LEFT TURN LANE & RIGHT TURN LANE 425'
MEDIAN & RT LANE TAPER 150'
12' LANE MEDIAN TRANSITION 270'
SH 289 CL STA. 587+99.83= CHANDLER CIR CL STA. 10+00.00
SH 289 CL STA. 593+50.75= BRIDGEPORT DR CL STA. 10+00.00
SH 289 PI STATION = 593+51.63
DELTA = 19°49'43.88" (RT)
DEGREE OF CURVE = 1°00'00.00"
TANGENT = 1,001.46
LENGTH = 1,982.89
RADIUS = 5,729.58
PC STATION = 583+50.17
PT STATION = 603+33.06
MATCH LINE STA 595+00 CSJ #0091-04-050
GUHAN LLC
SHADDOCK DEVELOPERS LTD
SHANAHAN JAMES W
PROSPER POINT LLC
560+00
565+00
570+00
575+00
580+00
585+00
590+00

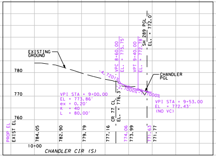
| NORTHBOUND CROSS SLOPE TRANSITION TABLE | | |
|---|---|---|
| EVENT | STATION | CROSS SLOPE |
| BEGIN SE TRANSITION | 580+00.00(LT) | -2.00 |
| END SE TRANSITION | 581+80.00(LT) | +2.00 |
| BEGIN SE TRANSITION | 602+70.00(LT) | +2.00 |
| END SE TRANSITION | 604+50.00(LT) | -2.00 |

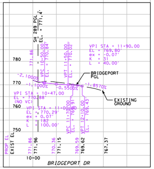

EXISTING GROUND
SH 289 PGL LT/RT
SH 289 PGL LT
SH 289 PGL RT
WSE 730.9
WSE 760.4
EXIST/PROP 2-36" RCP
STA = 557+50.00 EL = 727.14' ex = -1.27' K = 314 L = 340.00'
STA = 564+50.00 EL = 736.18' ex = -0.10' K = 126 L = 100.00'
STA = 568+00.00 EL = 737.93' ex = 0.16' K = 158 L = 140.00'
SH 289 CL STA. 579+30.00 BEGIN SPLIT PROFILE EL. = 754.80'
CHANDLER CIR (N)
CHANDLER CIR (S)
BRIDGEPORT DR
MATCH LINE STA 595+00
PROP EL
EXIST EL
PROP LT EL
PROP RT EL
560+00
565+00
570+00
575+00
580+00
585+00
590+00
595+00

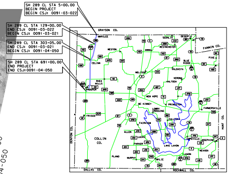

CR 81 (PROSPER TRAIL)


CR 48


CHANDLER CIR (N)


CHANDLER CIR (S)


BRIDGEPORT DR


SH 289 CL STA 5+00.00 BEGIN PROJECT BEGIN CSJ: 0091-03-022
SH 289 CL STA 129+00.00 END CSJ: 0091-03-022 BEGIN CSJ: 0091-03-021
SH 289 CL STA 303+05.00 END CSJ: 0091-03-021 BEGIN CSJ: 0091-04-050
SH 289 CL STA 691+00.00 END PROJECT END CSJ: 0091-04-050
GRAYSON CO.
FANNIN CO.
DENTON CO.
COLLIN CO.
HUNT CO.
DALLAS CO.
ROCKWALL CO.

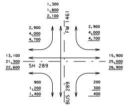
VICINITY MAP

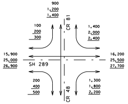
COLLIN COUNTY

SCALE 0 1 2 3 4 5 6 MILES

DISTRICT 18

| BEGIN STATION | END STATION | CSJ | FUNCT. CLASS | DESIGN SPEED |
|---|---|---|---|---|
| 5+00.00 | 129+00.00 | 0091-03-022 | RURAL | 60 MPH |
| 129+00.00 | 303+05.00 | 0091-03-021 | URBAN | 45 MPH |
| 303+05.00 | 691+00.00 | 0091-04-050 | URBAN | 45 MPH |


FM 1461
BUS 289
SH 289
1,300
1,800
2,100
2,900
4,000
4,700
2,900
4,000
4,700
13,100
21,300
22,600
15,900
25,000
26,900
900
1,200
1,400
200
300
400


CR 81
CR 48
SH 289
900
1,200
1,400
100
200
300
1,400
2,000
2,400
15,900
25,000
26,900
16,200
25,500
27,700
200
400
500
1,300
1,800
2,200

TRAFFIC VOLUME LEGEND*

1,000 YEAR 2010
1,000 YEAR 2030
1,000 YEAR 2040

*Source of data: Texas Department of Transportation Transportation, Programming and Planning Division Memorandum March 27, 2006

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Texas Department of Transportation

**DALLAS DISTRICT**
**WILLIAM L. HALE P.E.,**
**DISTRICT ENGINEER**

**COLLIN COUNTY**

**DESIGN SCHEMATIC**
**SH 289**
**PROJECT LENGTH: 12.992 MILES (68,600')**

**CSJ #0091-03-022**
**LIMITS: 500' NORTH OF GRAYSON CR 60**
**(GRAYSON COUNTY LINE)**
**TO BUS 289**
**LENGTH: 2.348 MILES**

**CSJ #0091-03-021**
**LIMITS: BUS 289 TO FM 455**
**LENGTH: 3.297 MILES**

**CSJ #0091-04-050**
**LIMITS: FM 455 TO 1/4 MILE NORTH OF US 380**
**LENGTH: 7.347 MILES**

**DESIGN SPEED: 60 MPH (RURAL)**
**45 MPH (URBAN)**
**40 MPH (FM STREETS)**
**30 MPH (CR & LOCAL STREETS)**
**20 MPH (CR 60)**
**FUNCTIONAL CLASS: RURAL AND URBAN PRINCIPAL ARTERIAL**
**ROLL 6 of 7**

**FEBRUARY 2009**

| ROADWAY | 2010 ADT | 2030 ADT | DESIGN SPEED |
|---|---|---|---|
| SH 289 (RURAL) | 20,100 | 31,000 | MEETS OR EXCEEDS 60 MPH |
| SH 289 (URBAN) | 20,100 | 31,000 | MEETS OR EXCEEDS 45 MPH |
| BUS 289 | 2,800 | 3,400 | MEETS OR EXCEEDS 30 MPH |
| CR 134 | 800 | 1,200 | MEETS OR EXCEEDS 30 MPH |
| FM 455 | 4,800 | 6,700 | MEETS OR EXCEEDS 40 MPH |
| BUS 289 | 3,100 | 4,200 | MEETS OR EXCEEDS 30 MPH |
| FM 1461 | 2,900 | 4,000 | MEETS OR EXCEEDS 40 MPH |
| CR 48/CR 81 | 1,400 | 2,000 | MEETS OR EXCEEDS 30 MPH |
| FM 1193 | 3,100 | 4,200 | MEETS OR EXCEEDS 40 MPH |
| CR 78/E 1st ST | 1,800 | 2,500 | MEETS OR EXCEEDS 30 MPH |
| CR 60 | - | - | MEETS OR EXCEEDS 20 MPH<br>(RR CROSSING) |
| ALL OTHERS | - | - | MEETS OR EXCEEDS 30 MPH |

Source of data: Texas Department of Transportation, Programming and Planning Division Memorandum March 27, 2006

NOTES:

1. MEDIAN OPENINGS ARE PRELIMINARY AND SUBJECT TO CHANGE. FINAL MEDIAN OPENING LOCATIONS TO BE DETERMINED DURING PS&E AND IN COORDINATION WITH THE TOWN OF PROSPER AND THE CITY OF CELINA.
2. THE WSE SHOWN AT EACH CULVERT IS BASED ON A 25 YEAR STORM EVENT.

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Texas Department of Transportation

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Suite 1400
Dallas, TX 75206
www.lan-inc.com
Phone 214.522.8778
Fax 214.526-4433

DALLAS DISTRICT
SH 289
COLLIN COUNTY
DESIGN SCHEMATIC

ROLL 6 of 7

| | | | | | | |
|---|---|---|---|---|---|---|
| DESIGNED: - | FED. RD. DIV. NO. | STATE | PROJECT NO. | | | HIGHWAY NO. |
| CHECKED: - | 6 | TEXAS | SEE TITLE SHEET | | | SH 289 |
| DRAWN: - | STATE DIST. | COUNTY | CONTROL NO. | SECTION NO. | JOB NO. | SHEET NO. |
| CHECKED: - | DALLAS | COLLIN | 0091 | 03 | 021 | |

ETC.