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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 7 of 7

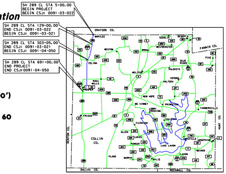
FEBRUARY 2009

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:

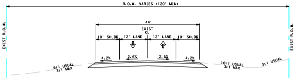
1. MEDIAN OPENINGS ARE PRELIMINARY AND SUBJECT TO CHANGE. FINAL MEDIAN OPENING LOCATIONS TO BE DETERMINED DURING PS&E AND IN COORDINATION WITH THE TOWN OF PROSPER AND THE CITY OF CELINA.
2. THE WSE SHOWN AT EACH CULVERT IS BASED ON A 25 YEAR STORM EVENT.


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.
FANNIN CO.
DENTON CO.
HUNT CO.
DALLAS CO.
ROCKWALL CO.
COLLIN CO.
MARILEE
CELINA
WESTON
ANNA
WESTMINSTER
SEDALIA
DESERT
PIKE
BLUE RIDGE
VALDASTA
MELISSA
VERONA
SALTOGA
RHEA MILLS
PROSPER
NEW HOPE
MC KINNEY
PRINCETON
FARMERSVILLE
LOWRY CROSSING
CULLEOKA
FRISCO
FAIRVIEW
ALLEN
LUCAS
COPEVILLE
JOSEPHINE
PARKER
LAKE LAVON
NEVADA
PLANO
MURPHY
WYLIE
LAVON

VICINITY MAP

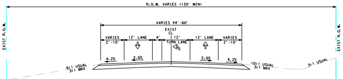
COLLIN COUNTY
SCALE 0 1 2 3 4 5 6 MILES
DISTRICT 18

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

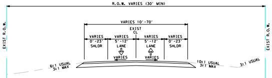
EXISTING ROADWAY TYPICAL SECTION

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

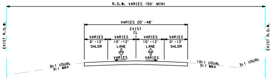
EXISTING ROADWAY TYPICAL SECTION

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

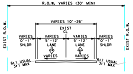
EXISTING CROSS STREET TYPICAL SECTION
ASPHALT PAVING

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

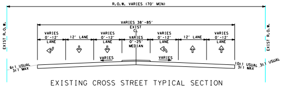
EXISTING CROSS STREET TYPICAL SECTION
CONCRETE PAVING

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

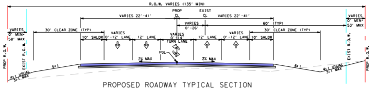
EXISTING CROSS STREET TYPICAL SECTION
UNPAVED

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

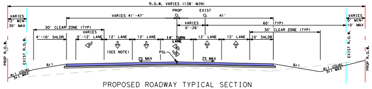
EXISTING CROSS STREET TYPICAL SECTION
CONCRETE PAVING w/ MEDIAN

CR 96
CARTER RANCH
STONE CREEK


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

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

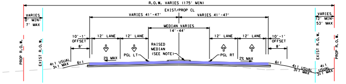
BEGIN PROJECT TO STA 88+48
STA 97+37 TO STA 124+50


R.O.W. VARIES (138′ MIN)
PROP CL
EXIST CL
VARIES 41′-47′
41′
VARIES 0′-26′
60′ (TYP)
30′ CLEAR ZONE (TYP)
30′ CLEAR ZONE (TYP)
VARIES 12′ MIN-30′ MAX
VARIES 0′ MIN-10′ MAX
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
EXIST R.O.W.
PROP R.O.W.

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

STA 88+48 TO STA 97+37

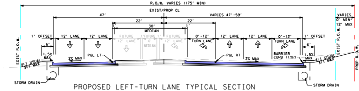
NOTE: THRU LANE STRIPED CLOSED
STA 9+65 TO STA 18+10


R.O.W. VARIES (175′ MIN)
EXIST/PROP CL
VARIES 41′-47′
VARIES 41′-47′
MEDIAN VARIES 14′-44′
VARIES 0′ MIN-7′ MAX
VARIES 12′ MIN-53′ MAX
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
4:1 USUAL 3:1 MAX
EXIST R.O.W.
PROP R.O.W.

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

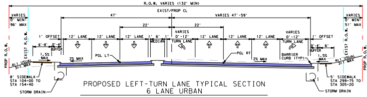
STA 124+50 TO STA 129+00

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′
30′ MEDIAN
1′
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
1.5% MAX
2% MAX
2% MAX
PGL LT
PGL RT
BARRIER CURB (TYP)
4:1 USUAL 3:1 MAX
STORM DRAIN
STORM DRAIN
EXIST R.O.W.
PROP R.O.W.

PROPOSED LEFT-TURN LANE TYPICAL SECTION
4 LANE URBAN

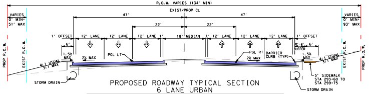
STA 129+00 TO STA 134+04


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′ MEDIAN 1′
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
2% MAX
PGL LT
PGL RT
BARRIER CURB (TYP)
4:1 USUAL 3:1 MAX
8′ SIDEWALK STA 104+00 TO STA 154+40
5′ SIDEWALK STA 299+75 TO STA 305+20
STORM DRAIN
STORM DRAIN
EXIST R.O.W.
PROP 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 SHOW
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
1.5% MAX
2% MAX
2% MAX
PGL LT
PGL RT
BARRIER CURB (TYP)
4:1 USUAL 3:1 MAX
5′ SIDEWALK STA 293+60 TO STA 299+75
STORM DRAIN
STORM DRAIN
EXIST R.O.W.
PROP 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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Texas Department of Transportation

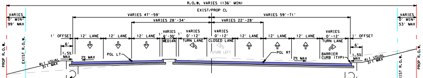
Lockwood, Andrews & Newnam, Inc.
A LEO A DALY COMPANY
8350 North Central Expressway
Suite 1400
Dallas, TX 75206
www.lan-inc.com
Phone 214.522.8778
Fax 214.526-4433

DALLAS DISTRICT
SH 289
COLLIN COUNTY
DESIGN SCHEMATIC

ROLL 7 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	

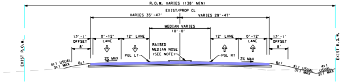
ETC.


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

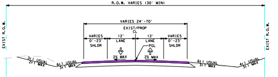
NOTE: SB LEFT TURN AS SHOWN.
REVERSE SECTION FOR
NB LEFT TURN.


R.O.W. VARIES (138' MIN)
EXIST/PROP CL
VARIES 35'-47'
VARIES 29'-47'
MEDIAN VARIES 18'-0'
12'-1' OFFSET
0'-12' LANE
12' LANE
8'
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

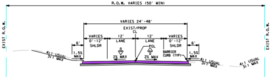
CR 107
CR 60
CR 106
BUS 289
CR 134

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

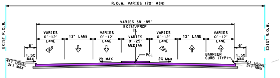
HICKORY CREEK
FM 1193
CR 78
CRAIG
CR 73


R.O.W. VARIES (50' MIN)
VARIES 24'-48'
EXIST/PROP CL
VARIES 0'-12' SHLDR
12' LANE
PGL
6'
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

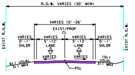
LAKE VIEW
CR 98
CHANDLER

CR 77
BRIDGEPORT


R.O.W. VARIES (70' MIN)
VARIES 38'-85'
EXIST/PROP CL
VARIES 0'-12' LANE
12' LANE
VARIES 0'-25' MEDIAN
PGL
6'
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

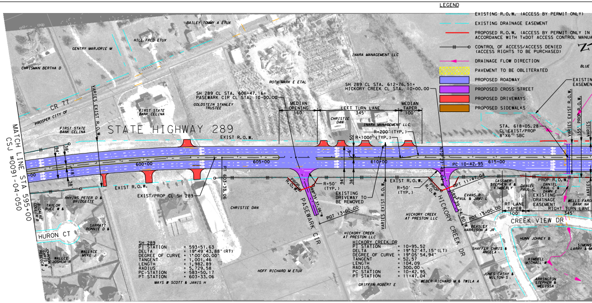

R.O.W. VARIES (30' MIN)
VARIES 10'-26'
EXIST/PROP CL
VARIES 0'-1' SHLDR
VARIES 5'-12' LANE
VARIES
PGL
6:1 USUAL 3:1 MAX
10:1 USUAL 3:1 MAX
EXIST R.O.W.

PROPOSED CROSS STREET TYPICAL SECTION
ASPHALT PAVING

CR 102
CR 105
CR 100

CR 99
CR 95
JAMES*

KINNEY*
CR 1211
CR 89*


STATE HIGHWAY 289
MATCH LINE STA 595+00
CSJ #0091-04-050
CR 77
PROSPER CITY OF
HURON CT
PASEWARK CIR
HICKORY CREEK DR
CREEK VIEW DR
EXIST R.O.W.
EXIST/PROP CL SH 289
SH 289 CL STA. 606+47.16=
PASEWARK CIR CL STA. 10+00.00
SH 289 CL STA. 612+76.51=
HICKORY CREEK CL STA. 10+00.00
MEDIAN OPENING 160'
LEFT TURN LANE 345'
MEDIAN TAPER 100'
R=200' (TYP.)
R=100' (TYP.)
R=50' (TYP.)
EXISTING DRIVEWAY TO BE REMOVED
POT 13+00.00
PC 10+42.95
PT 11+47.04
STA. 618+05.28
CL EXIST/PROP
8'X6' SBC
RT LANE TAPER 100'
RIGHT TURN LANE 345'
EXISTING DRAINAGE EASEMENT
PROP R.O.W.
VARIES EXIST R.O.W.
155' PROP R.O.W.
600+00
605+00
610+00
615+00
BAILEY TOMMY A ETUX
HILL FRED ETUX
GENTRY MARJORIE M
CHRISMAN BERTHA D
INARA MANAGEMENT LLC
ROTH MARK E ETAL
GOLDSTEIN STANLEY TRUSTEE
FIRST STATE BANK CELINA
CHRISTIE DAN
RHYINS PETER D & BRIDGETTE
TAYLOR RUCE W &
SARRATT RONNIE D &
WALLACE MIKE J
HOFF RICHARD M ETUX
MAYS W SCOTT & JANIS H
HICKORY CREEK AT PRESTON LLC
WEBER RICHARD M & TWILA A
GRIFFIN ROBERT E
GASSNER STEPHEN A & KIMBERLY
DANIEL PAUL C
EVANS R PAUL & JAMI L
BEASLEY HARRISON A JR
HUNN JOHNEY B
SHAFFER CHRIS & ANGELA
KIMBELL MICHAEL W
JONES CATHY & MILTON S
ARRINGTON STEPHEN & MELISSA
WELLS FARGO BANK NA

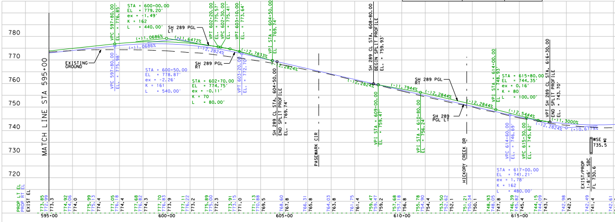
LEGEND

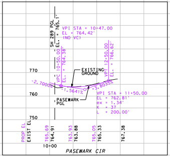
―	EXISTING R.O.W. (ACCESS BY PERMIT ONLY)
– –	EXISTING DRAINAGE EASEMENT
―	PROPOSED R.O.W. (ACCESS BY PERMIT ONLY IN ACCORDANCE WITH TxDOT ACCESS CONTROL MANUA
―ǁǀ―○	CONTROL OF ACCESS/ACCESS DENIED (ACCESS RIGHTS TO BE PURCHASED)
◄	DRAINAGE FLOW DIRECTION
▨	PAVEMENT TO BE OBLITERATED
🟦	PROPOSED ROADWAY
🟪	PROPOSED CROSS STREET
🟥	PROPOSED DRIVEWAYS
🟫	PROPOSED SIDEWALKS

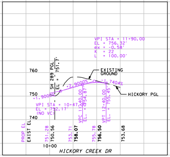
SH 289
PI STATION = 593+51.63
DELTA = 19°49'43.88" (RT)
DEGREE OF CURVE = 1°00'00.00"
TANGENT = 1,001.46
LENGTH = 1,982.89
RADIUS = 5,729.58
PC STATION = 583+50.17
PT STATION = 603+33.06

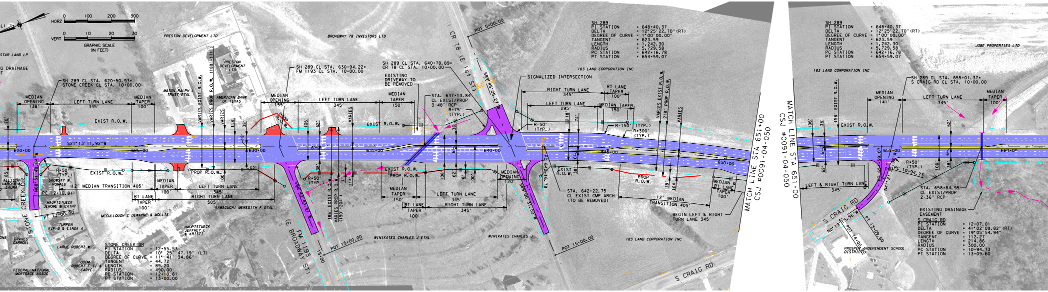
HICKORY CREEK DR
PI STATION = 10+95.52
DELTA = 19°52'47.15" (LT)
DEGREE OF CURVE = 19°05'54.94"
TANGENT = 52.57
LENGTH = 104.09
RADIUS = 300.00
PC STATION = 10+42.95
PT STATION = 11+47.04

SOUTHBOUND CROSS SLOPE TRANSITION TABLE		
EVENT	STATION	CROSS SLOPE
BEGIN SE TRANSITION	609+00.00 (RT)	-2.00
END SE TRANSITION	610+80.00 (RT)	+2.00
BEGIN SE TRANSITION	614+00.00 (RT)	+2.00
END SE TRANSITION	615+80.00 (RT)	-2.00







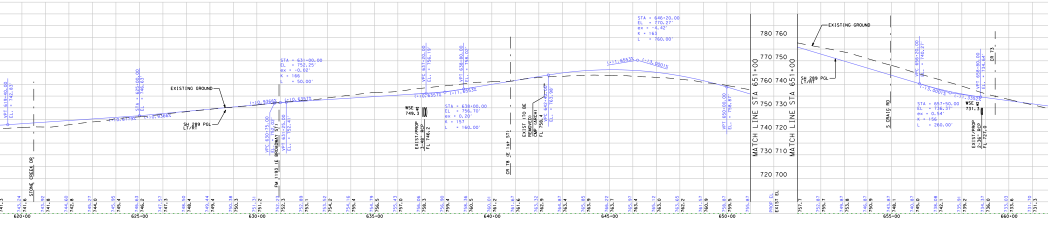

HORZ
0 100 200 300
VERT
0 10 20 30
GRAPHIC SCALE
(IN FEET)
PRESTON DEVELOPMENT LTD
BROADWAY 78 INVESTORS LTD
183 LAND CORPORATION INC
JOBE PROPERTIES LTD
STAR LAND LP
SH 289 CL STA. 620+50.93=
STONE CREEK CL STA. 10+00.00
SH 289 CL STA. 630+94.22=
FM 1193 CL STA. 10+00.00
SH 289 CL STA. 640+78.89=
CR 78 CL STA. 10+00.00
SH 289 CL STA. 655+01.37=
S CRAIG RD CL STA. 10+00.00
EXISTING DRIVEWAY TO BE REMOVED
SIGNALIZED INTERSECTION
STA. 637+13.84
CL EXIST/PROP
3-48" RCP
MEDIAN OPENING 138'
LEFT TURN LANE 345'
MEDIAN TAPER 100'
MEDIAN OPENING 155'
LEFT TURN LANE 345'
MEDIAN TAPER 150'
RIGHT TURN LANE 345'
RT LANE TAPER 100'
LEFT TURN LANE 295'
MEDIAN TAPER 150'
MEDIAN OPENING 141'
LEFT TURN LANE 345'
MEDIAN TAPER 100'
EXIST R.O.W.
PROP R.O.W.
VARIES EXIST R.O.W.
VARIES PROP R.O.W. (189'-171')
R=50' (TYP.)
R=75' (TYP.)
R=150' (TYP.)
R=300' (TYP.)
S21°13'11.92"W
620+00
625+00
630+00
635+00
640+00
645+00
650+00
655+00
660+00
12' MEDIAN TRANSITION 405'
RT LANE TAPER 100'
RIGHT TURN LANE 505'
MEDIAN TAPER 100'
LEFT TURN LANE 345'
MEDIAN TAPER 150'
RT LANE TAPER 100'
LEFT TURN LANE 345'
RIGHT TURN LANE 345'
MEDIAN OPENING 120'
STA. 642+22.75
CL EXIST CMP ARCH
(TO BE REMOVED)
12' MEDIAN TRANSITION 405'
MEDIAN & RT LANE TAPER 100'
BEGIN LEFT & RIGHT TURN LANE 345'
LEFT & RIGHT TURN LANE 345'
STA. 658+84.95
CL EXIST/PROP
2-36" RCP
EXISTING DRAINAGE EASEMENT
PC 12+10.81
PT 13+00.00
PT 13+09.60
PC 10+94.73
N68°33'48.84"W
N41°21'...W
POT 5+00.00
POT 15+00.00
CR 78 (E 1st ST)
FM 1193 (E BROADWAY ST)
S CRAIG RD
STONE CREEK DR
MATCH LINE STA 651+00
CSJ #0091-04-050
MASON RALPH L TRUST ETAL
AMERICAN BANK OF TEXAS
PRESTON DEVELOPMENT LTD
ALLISON DR HAROLD & LAURA
SKORSKY M RONALD
HAUPTSTUECK JEROME & CATHY
TURPEN KIP D & LINDA A
GRAVES CARROLL
LARUE ROBERT
ODOM ROBERT F II & CARYE
FEDERAL NATIONAL MORTGAGE ASSOC
MCCULLOUGH C DEWAYNE & MOLLIE
HAUPTSTUECK JEFFREY L & KRISTI
KAWAGUCHI MEREDITH F ETAL
WINKATES CHARLES J ETAL
WINKATES CHARLES J
PROSPER INDEPENDENT SCHOOL DISTRICT
186' EXIST R.O.W.
VARIES PROP R.O.W. (190'-204')
PROP R.O.W.

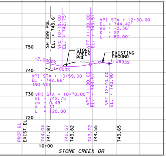
SH 289
PI STATION = 648+40.37
DELTA = 12°25'22.70" (RT)
DEGREE OF CURVE = 1°00'00.00"
TANGENT = 623.59
LENGTH = 1,242.30
RADIUS = 5,729.58
PC STATION = 642+16.78
PT STATION = 654+59.07

SH 289
PI STATION = 648+40.37
DELTA = 12°25'22.70" (RT)
DEGREE OF CURVE = 1°00'00.00"
TANGENT = 623.59
LENGTH = 1,242.30
RADIUS = 5,729.58
PC STATION = 642+16.78
PT STATION = 654+59.07

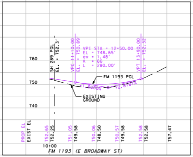
STONE CREEK DR
PI STATION = 12+55.53
DELTA = 10° 25' 47.19" (LT)
DEGREE OF CURVE = 11° 41' 34.86"
TANGENT = 44.72
LENGTH = 89.20
RADIUS = 490.00
PC STATION = 12+10.81
PT STATION = 13+00.00

S CRAIG RD
PI STATION = 12+07.01
DELTA = 41°02'09.82" (RT)
DEGREE OF CURVE = 19°05'54.94"
TANGENT = 112.27
LENGTH = 214.86
RADIUS = 300.00
PC STATION = 10+94.73
PT STATION = 13+09.60

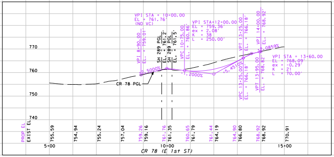

EXISTING GROUND
SH 289 PGL LT/RT
VPT 619+40.00 EL. = 742.83'
STA = 625+00.00 EL. = 746.63'
(+)0.6719%
(+)0.9366%
STA = 631+00.00
EL = 752.25'
ex = -0.02'
K = 166
L = 50.00'
(+)0.6357%
VPC 630+75.00 EL. = 752.02'
VPT 631+25.00 EL. = 752.41'
VPC 637+20.00 EL. = 756.19'
VPT 638+80.00 EL. = 758.02'
STA = 638+00.00
EL = 756.70'
ex = 0.20'
K = 157
L = 160.00'
(+)1.6553%
WSE 749.3
EXIST/PROP 3-48" RCP FL 746.2
EXIST (TO BE REMOVED) CMP (ARCH) FL 758.4
VPC 642+00.00 EL. = 763.98'
STA = 646+20.00
EL = 770.27'
ex = -4.42'
K = 163
L = 760.00'
(-)3.0001%
VPT 650+00.00 EL. = 758.87'
MATCH LINE STA 651+00
780 770 760 750 740 730 720
760 750 740 730 720 710 700
VPC 656+20.00 EL. = 740.27'
STA = 657+50.00
EL = 736.37'
ex = 0.54'
K = 156
L = 260.00'
(-)1.3352%
VPT 658+80.00 EL. = 734.64'
WSE 731.3
EXIST/PROP 2-36" RCP FL 727.0
CR 73
S CRAIG RD
STONE CREEK DR
FM 1193 (E BROADWAY ST)
CR 78 (E 1st ST)
PROP EL
EXIST EL
620+00
625+00
630+00
635+00
640+00
645+00
650+00
655+00
660+00


SH 289 PGL EL. = 743.6'
VPC 10+70.00 EL. = 742.75'
VPC 11+90.00 EL. = 743.51'
VPI STA = 12+30.00
EL = 744.42'
ex = -0.36'
K = 22
L = 80.00'
STONE CREEK PGL
EXISTING GROUND
-2.0000%
1.2893%
VPI STA = 10+69.00
EL = 742.86'
(NO VC)
VPI STA = 10+70.00
EL = 742.75'
ex = 0.49'
K = 37
L = 120.00'
750 740 730 720
PROP EL
EXIST EL
10+00

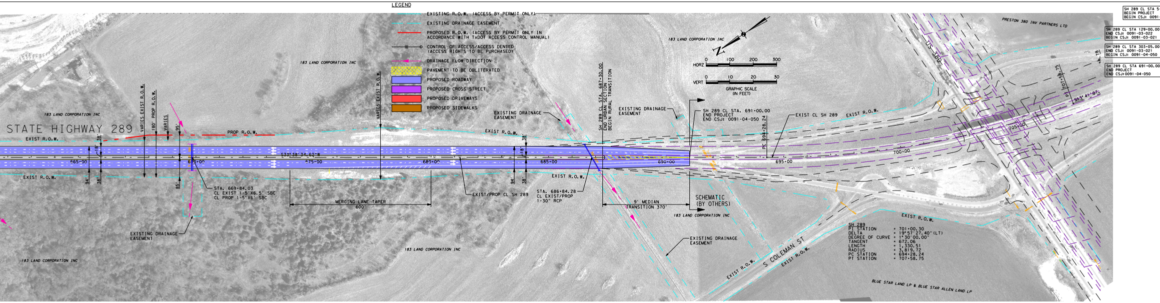
STONE CREEK DR

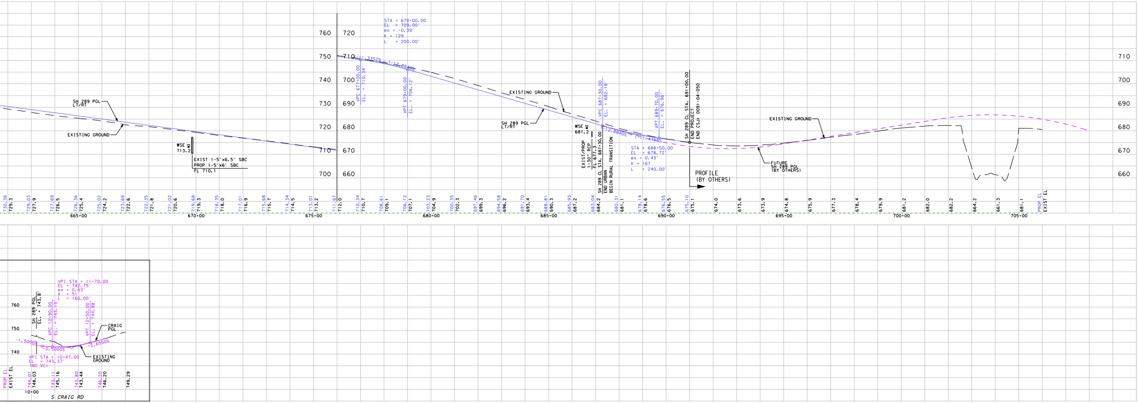

SH 289 PGL EL. = 752.3'
VPC 11+10.00 EL. = 750.89'
VPI STA = 12+50.00
EL = 748.65'
ex = 1.48'
K = 66
L = 280.00'
VPT 13+90.00 EL. = 752.32'
FM 1193 PGL
EXISTING GROUND
-1.6000%
2.6167%
760 750 740
PROP EL
EXIST EL
10+00

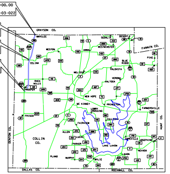
FM 1193 (E BROADWAY ST)


VPI STA = 10+00.00
EL = 761.76'
(NO VC)
VPI STA = 12+00.00
EL = 759.36'
ex = 2.08'
K = 38
L = 250.00'
VPT 8+90.00 EL. = 759.01'
SH 289 PGL EL. = 761.2'
SH 289 PGL EL. = 761.5'
VPC 10+75.00 EL. = 760.86'
VPC 13+25.00 EL. = 766.18'
VPT 14+00.00 EL. = 768.92'
VPC 13+25.00 EL. = 766.18'
VPT 13+95.00 EL. = 768.82'
VPI STA = 13+60.00
EL = 768.09'
ex = -0.29'
K = 21
L = 70.00'
CR 78 PGL
0.5000%
-1.2000%
5.4510%
0.0859%
770 760 750 740
PROP EL
EXIST EL
5+00
10+00
15+00

CR 78 (E 1st ST)


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
STATE HIGHWAY 289
183 LAND CORPORATION INC
PRESTON 380 INV PARTNERS LTD
BLUE STAR LAND LP & BLUE STAR ALLEN LAND LP
EXIST R.O.W.
PROP R.O.W.
VARIES EXIST R.O.W.
180' PROP R.O.W.
VARIES
95'
85'
94'
38'
18'
665+00
670+00
675+00
680+00
685+00
690+00
695+00
700+00
705+00
S33°38'34.62"W
STA. 669+84.03
CL EXIST 1-5'X6.5' SBC
CL PROP 1-5'X6' SBC
MERGING LANE TAPER
600'
EXIST/PROP CL SH 289
STA. 686+84.28
CL EXIST/PROP
1-30" RCP
9' MEDIAN
TRANSITION 370'
SCHEMATIC
(BY OTHERS)
SH 289 CL STA. 687+30.00
END URBAN SECTION
BEGIN RURAL TRANSITION
EXISTING DRAINAGE EASEMENT
SH 289 CL STA. 691+00.00
END PROJECT
END CSJ: 0091-04-050
PC 694+28.24
EXIST CL SH 289
PT 707+58.75
US 380
S COLEMAN ST
N
0 100 200 300
HORZ
0 10 20 30
VERT
GRAPHIC SCALE
(IN FEET)
SH 289
PI STATION = 701+00.30
DELTA = 19°57'27.40"(LT)
DEGREE OF CURVE = 1°30'00.00"
TANGENT = 672.06
LENGTH = 1,330.51
RADIUS = 3,819.72
PC STATION = 694+28.24
PT STATION = 707+58.75
SH 289 CL STA 5
BEGIN PROJECT
BEGIN CSJ: 0091
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
CELINA
SEDALIA
DESERT
WESTMINSTER
ANNA
FANNIN CO.
PIKE
BLUE RIDGE
MELISSA
VALDASTA
VERONA
ALTOGA
RHEA MILLS
PROSPER
NEW HOPE
MC KINNEY
PRINCETON
LOWRY CROSSING
FARMERSVILLE
FRISCO
FAIRVIEW
CULLEOKA
HUNT CO.
DENTON CO.
COLLIN CO.
ALLEN
LUCAS
PARKER
LAKE LAVON
COPEVILLE
JOSEPHINE
NEVADA
PLANO
MURPHY
WYLIE
LAVON
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

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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')

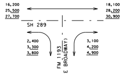
CSJ #0091-03-022
LIMITS: 500' NORTH OF GRAYSON CR 60
(GRAYSON COUNTY LINE)
TO BUS 289
LENGTH: 2.348 MILES

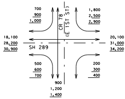
CSJ #0091-03-021
LIMITS: BUS 289 TO FM 455
LENGTH: 3.297 MILES

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 7 of 7

FEBRUARY 2009


16,200
25,500
27,700
18,100
28,200
30,900
SH 289
2,400
3,300
3,800
3,100
4,200
4,900
FM 1193
(E BROADWAY)


700
900
1,000
1,800
2,500
2,900
CR 78
(E 1ST ST)
18,100
28,200
30,900
20,100
31,000
34,200
SH 289
500
600
700
200
300
400
900
1,200
1,400

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

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.

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Texas Department of Transportation

Lockwood, Andrews & Newnam, Inc.
A LEO A DALY COMPANY

8350 North Central Expressway
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 7 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.