Texas Department of Transportation

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DALLAS DISTRICT

COLLIN COUNTY

MOHAMED K. BUR, P.E.
DISTRICT ENGINEER

DESIGN SCHEMATIC SH 5

FROM: SOUTH OF FM 1378 TO: SOUTH OF MELISSA RD

FUNCTIONAL CLASSIFICATIONS	
URBAN PRINCIPAL ARTERIAL	SS 399 MAINLANE, SH 121 MAINLANE, SH 5 MAINLANE, US 380 (W UNIVERSITY DR), RAMPS
URBAN MINOR ARTERIAL	FM 1378(COUNTRY CLUB RD), FM 546(OLD MILL RD), EL DORADO PKWY/INDUSTRIAL BLVD
URBAN COLLECTOR	FRISCO RD, STEWART RD, SS 399 FRONTAGE ROAD, SH 5 FRONTAGE ROAD, E VIRGINIA ST, E LOUISIANA ST, TENNESSEE ST, N CHURCH ST, BILMETH RD, CR 338(FANNIN RD)
RURAL MAJOR COLLECTOR	SS 195 (WESTON RD)
URBAN/RURAL LOCAL	ALL OTHER STREETS

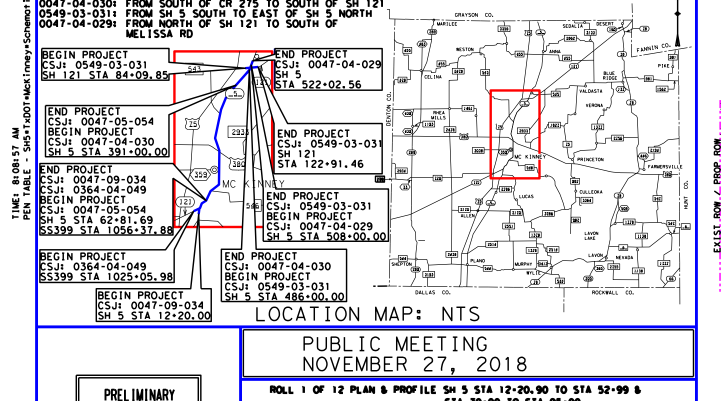
DESIGN SPEED	
60 MPH	SS 399 MAINLANE
45 MPH	SH 121 MAINLANE
40 MPH	SH 5 MAINLANE, RAMPS, FM 1378 (COUNTRY CLUB RD), SPUR 399 FRONTAGE ROAD, SH 5 FRONTAGE ROAD, FM 546 (OLD MILL RD), EL DORADO PKWY/INDUSTRIAL BLVD, US 380 (W UNIVERSITY DR), SS 195 (WESTON RD)
30 MPH	ALL OTHER STREETS

HORIZ. SCALE IN FEET 0 50 100 150 200
VERT. SCALE IN FEET 0 10 20 30 40

PROJECT LENGTH
9.64 MI

CSJ LIMITS
0047-09-034: FROM SOUTH OF FM 1378 TO SS 399
0364-04-049: SS 399 AT SH 5
0047-05-054: FROM SS 399 TO SOUTH OF CR 275
0047-04-030: FROM SOUTH OF CR 275 TO SOUTH OF SH 121
0549-03-031: FROM SH 5 SOUTH TO EAST OF SH 5 NORTH
0047-04-029: FROM NORTH OF SH 121 TO SOUTH OF MELISSA RD

BASIS OF DESIGN: TxDOT ROADWAY DESIGN MANUAL 2014
EQUATIONS: NONE
RAILROADS: NONE
DESIGN EXCEPTIONS:
SUPERELEVATION TRANSITION LENGTH AT TWO LOCATIONS
DESIGN SPEED AT ONE LOCATION



LOCATION MAP: NTS

PUBLIC MEETING
NOVEMBER 27, 2018

PRELIMINARY
FOR INTERIM REVIEW ONLY. NOT FOR PERMITTING, BIDDING, OR CONSTRUCTION. Prepared by or under the Direct Supervision of OSWALD F. GARCIA P.E. 109889 11/27/2018

INDEX OF ROLLS
- ROLL 1 OF 12 PLAN & PROFILE SH 5 STA 12+20.90 TO STA 52+99 & STA 70+00 TO STA 95+00
- ROLL 2 OF 12 PLAN & PROFILE SH 5 STA 52+99 TO STA 70+00
- ROLL 3 OF 12 PLAN & PROFILE SH 5 STA 95+00 TO STA 150+00
- ROLL 4 OF 12 PLAN & PROFILE SH 5 STA 150+00 TO STA 205+00
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- ROLL 10 OF 12 PLAN & PROFILE SH 5 STA 467+00 TO STA END PROJ
- ROLL 11 OF 12 PLAN & PROFILE SH 121 STA 84+09.85 TO STA 122+91.46
- ROLL 12 OF 12 PROFILE RAMPS AND CROSS STREETS

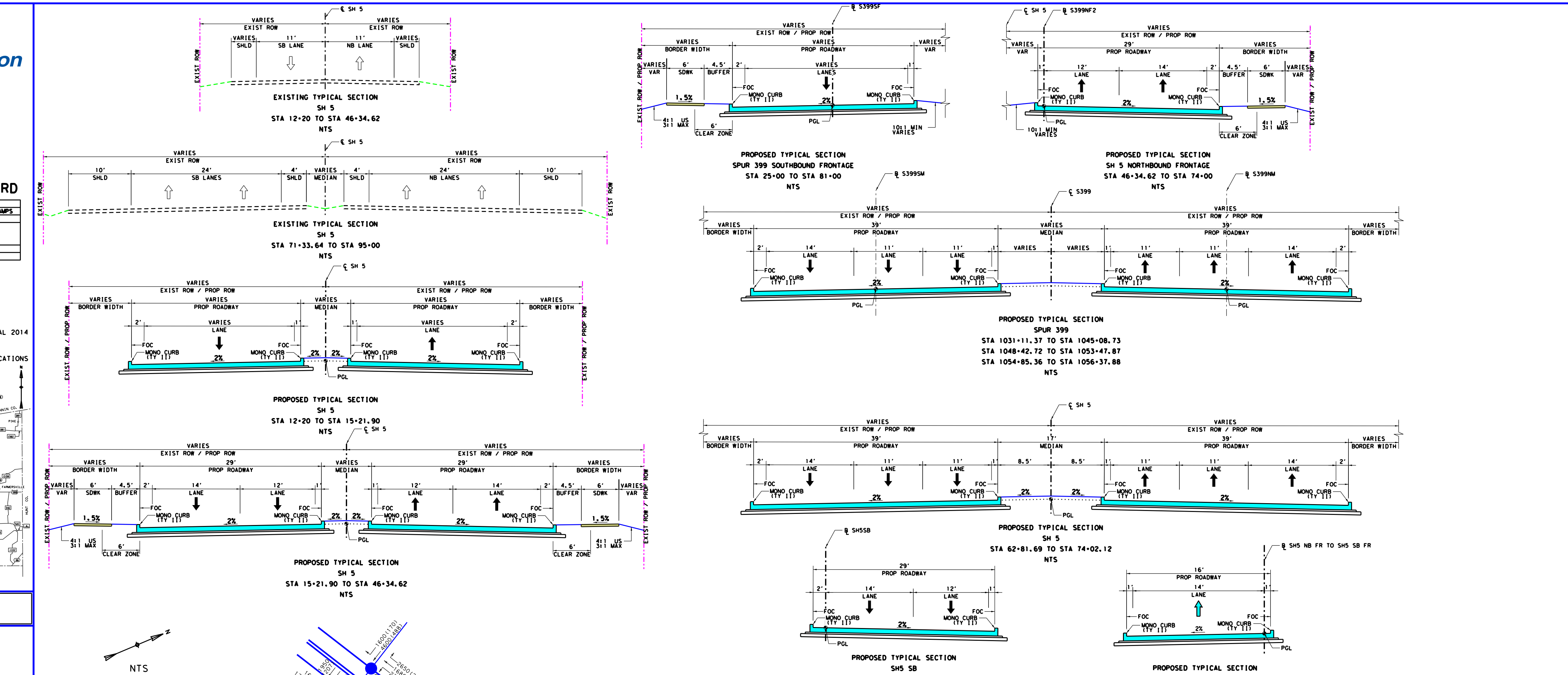
MCi Moreno Cardenas Inc.
Leaders in Project Delivery & Performance

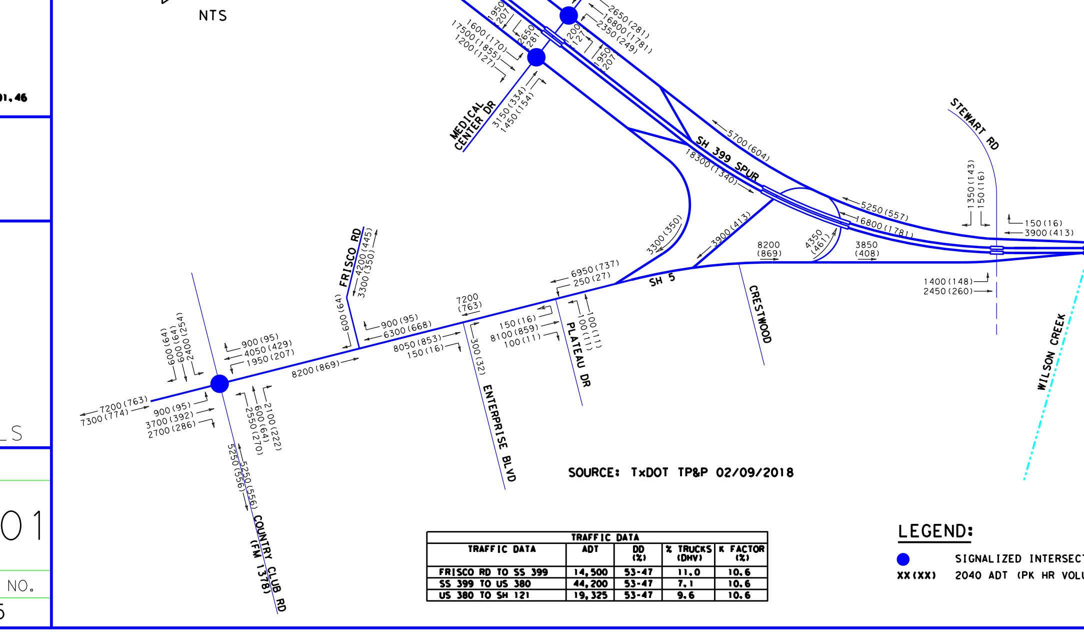
TBPE Firm Registration No. F-000554

PLAN & PROFILE
SH 5
STA 12+20 TO STA 95+00

ROLL 1 OF 12 ROLLS

DESIGNED BY:	FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.		ROLL NO.
MCI	6	XX (XX) XXXX		S-001
DRAWN BY:	STATE	DIST.	COUNTY	
MCI	TEXAS	DAL	COLLIN	
CHECKED BY:	CONT	SEC	JOB	HIGHWAY NO.
MCI	0047	05	054, etc.	SH 5





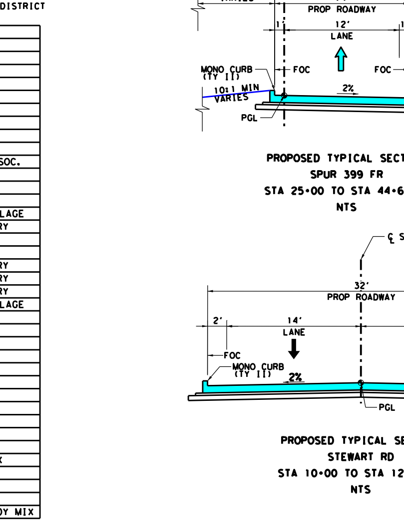
TRAFFIC DATA	ADT	DD (%)	% TRUCKS (DHV)	K FACTOR (%)
FRISCO RD TO SS 399	14,500	53-47	11.0	10.6
SS 399 TO US 380	46,200	53-47	7.1	10.6
US 380 TO SH 121	19,325	53-47	9.6	10.6

LEGEND:
- SIGNALIZED INTERSECTION
- XX(XX) 2040 ADT (PK HR VOLUMES)

PROPERTY OWNERS

SOURCE: COLLIN COUNTY APPRAISAL DISTRICT FEBRUARY 2018

ID#	SITE ADDRESS	OWNER	BUSINESS NAME
1	668 COUNTRY CLUB RD	APPLE PROP	
2	678 COUNTRY CLUB RD	APPLE GEORGE W SR	
3	STATE HWY 5	PATSY REMBERT & NEVIL ETAL	
4	FAIRVIEW, TX 75069	FRISCO ROAD LTD	
5	650 FRISCO RD	FRISCO ROAD LTD	
6	640 FRISCO RD	FRISCO ROAD LTD	
7	651 COUNTRY CLUB RD	EWBANK DEVELOPMENT LLC	
8	960 S STATE HWY 5	EWBANK DEVELOPMENT LLC	
9	671 COUNTRY CLUB RD	WILHITE CHARLES LEE & SHERILYN KAY	
10	970 S STATE HWY 5	COLLIN BAPTIST ASSN INC	COLLIN BAPTIST ASSOC.
11	990 S STATE HWY 5	JENCO LTD	
12	1102 S STATE HWY 5	DFW 2005 INC	
13	1100 S STATE HWY 5	DFW 2005 INC	
14		MCKINNEY MED CENTER LP	MCKINNEY URBAN VILLAGE
15	STATE HWY 5	CAAG LAND COMPANY LLC	OAKSTREET NURSERY
16	1010 S STATE HWY 5	LEONEL & LAZOS	
17	1030 S STATE HWY 5	ZELMA ENLOE	
18	1040 S STATE HWY 5	CAAG LAND COMPANY LLC	OAKSTREET NURSERY
19	2400 S MCDONALD ST	MOLINAR RUBEN JR	OAKSTREET NURSERY
20	2400 S MCDONALD ST	MOLINAR RUBEN JR	OAKSTREET NURSERY
21	201 MCKINNEY VILLAGE PKWY	MCKINNEY URBAN VILLAGE LP	MCKINNEY URBAN VILLAGE
22	MCKINNEY, TX 75069	MITCHELL KENNETH H	
23	MEDICAL CENTER DR	MCKINNEY MED CENTER LP	
24	MCKINNEY, TX 75069	MITCHELL KENNETH H	
25	2211 S STATE HWY 5	A & W PROPERTIES JV	
26		A & W PROPERTIES JV	
27	STATE HWY 5	A & W PROPERTIES JV	
28	3911 MEDICAL CENTER DR	7-ELEVEN INC	7-ELEVEN
29	STATE HWY 121 'ROW'	STATE OF TEXAS	
30	3191 MEDICAL CENTER DR	MCKINNEY FAIRWAYS LLC	
31	STATE HWY 5	STATE OF TEXAS	
32	STATE HWY 5	VILLA VIEW MHC LTD	VILLA VIEW MHP
33	2015 S MCDONALD ST	SHWAISANI ISSAM AL	COWTOWN REDIMIX
34	2110 S MCDONALD ST	KENNETH RAY- LEE & STRICKLAND	
35	1515 STEWART RD	JEANES OSCAR L	
36	1513 STEWART RD	CITY OF MCKINNEY	
37	STATE HWY 5 (S MCDONALD)	TXI OPERATIONS LP	MARTIN MARIETTA READY MIX



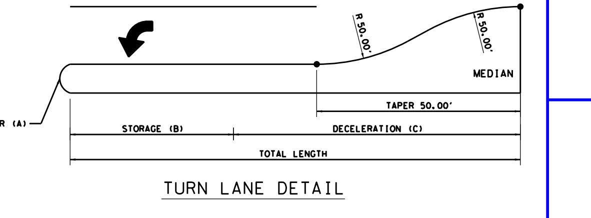
P.I. NAME	P.I. STATION	P.I. EASTING	P.I. NORTHING	RADIUS	DELTA	LENGTH	TANGENT	P.C. STATION	P.T. STATION
CLSH5-1	13+63.65	2,540,109.34	7,109,567.41	2,455.33'	7° 23' 45.01" RT	316.94'	158.69'	12+04.96	15+21.90
CLSH5-2	19+27.10	2,540,399.16	7,110,051.11	533.00'	3° 39' 45.19" RT	34.07'	17.04'	19+10.06	19+44.13
CLSH5-3	22+81.09	2,540,600.35	7,110,342.39	1,000.00'	23° 51' 07.94" LT	416.30'	211.21'	20+69.88	24+86.18
CLSH5-4	59+26.42	2,541,283.38	7,113,929.39	4,000.00'	35° 47' 45.03" RT	2,499.02'	1,291.80'	46+34.62	71+33.64
CLSH5-5	88+25.93	2,543,450.95	7,115,980.35	3,600.00'	14° 13' 32.95" LT	893.83'	449.23'	83+76.70	92+70.54
CLSH5-6	99+53.83	2,544,057.22	7,116,936.94	3,819.72'	16° 30' 00.01" LT	1,100.00'	553.83'	94+00.00	105+00.00

PRELIMINARY - SUBJECT TO CHANGE

PENDING
PROFILE
UPDATES

COLOR LEGEND
- PROPOSED MAINLANES
- PROPOSED BRIDGE
- PROPOSED DRIVEWAY
- PROPOSED CROSS STREET
- PROPOSED DIRECT CONNECTOR
- PROPOSED SIDEWALK
- PROPOSED RAMP
- PROPOSED PAVED MEDIAN
- PROPOSED NON-PAVED MEDIAN
- 100 YEAR FLOOD PLAIN
- EXISTING PAVEMENT (BY OTHERS)
- EXISTING PAVEMENT TO BE REMOVED
- EXISTING BUILDING TO BE REMOVED
- CENTERLINE/BASELINE (CROSS STREETS)
- CENTERLINE (MAINLANE)
- PROPOSED ROW
- PROPOSED PERMANENT EASEMENT
- PROPOSED TEMPORARY EASEMENT
- CITY LIMITS
- EXISTING ROW
- PROPERTY LINES
- CONTROL OF ACCESS
- PROPOSED RETAINING WALL
- PROPOSED TRAFFIC FLOW
- EXISTING TRAFFIC FLOW
- OVERHEAD TELEPHONE UTIL
- OVERHEAD ELECTRIC UTIL
- OVERHEAD CABLE UTIL
- BURIED TELEPHONE UTIL
- BURIED ELECTRIC UTIL
- BURIED CABLE UTIL
- BURIED WATER UTIL
- BURIED SEWER UTIL
- BURIED GAS/OIL UTIL
- BURIED SOLID WASTE LINE
- (XXXXX-XX) HORIZONTAL CURVE NAME
- XXX PROPERTY ID NUMBER
- EXISTING DRAINAGE STRUCTURES
- PROPOSED DRAINAGE STRUCTURES
- PROPOSED SIGNALIZED INTERSECTION

NOTES:
1. ALL DIMENSIONS ARE TO EDGE OF PAVEMENT, FACE OF CURB, RAIL, UNLESS OTHERWISE NOTED.
2. MEDIAN OPENINGS WERE DETERMINED IN COORDINATION WITH LOCAL GOVERNMENT. FINAL LOCATION OF MEDIAN OPENINGS WILL BE DETERMINED IN THE PS&E DEVELOPMENT PHASE IN COORDINATION WITH THE LOCAL GOVERNMENT.
3. SUPERELEVATION AXIS OF ROTATION IS ABOUT THE PGL UNLESS OTHERWISE NOTED.
4. APPROXIMATE 100 YEAR FLOODPLAIN LIMITS ARE BASED UPON FEMA FLOOD INSURANCE RATE MAP 48085C0280J (REV JUNE 7, 2017) AND 48085C0290J (REV JUNE 2, 2009) FOR WILSON CREEK, 48085C0165J (REV JUNE 2, 2009) AND 48085C0280J (REV JUNE 2, 2009) FOR EAST FORK TRINITY RIVER.
5. OWNERSHIP INFORMATION SHOWN ON SCHEMATIC OBTAINED FROM COLLIN COUNTY APPRAISAL DISTRICT OCTOBER 2017.
6. EXISTING CULVERT LOCATION, SIZE, AND ELEVATIONS OBTAINED FROM RECORD DOCUMENTS OR TOPOGRAPHIC SURVEY AND ARE SHOWN FOR INFORMATION PURPOSES ONLY.
7. ADA RAMPS ARE NOT DEPICTED IN THE PLAN.
8. FINAL DRIVEWAY LOCATIONS SHALL BE DETERMINED DURING DETAILED DESIGN IN COORDINATION WITH THE CITY OF McKINNEY.
9. ALL PRIVATE DRIVEWAYS HAVE CURB RADII OF 15FT, UNLESS OTHERWISE NOTED.
10. EXIST TOPO AND AERIAL PHOTOS PROVIDED BY TxDOT.
11. EXIST ROW SHOWN PROVIDED BY TxDOT.
12. PARCEL BOUNDARY LOCATIONS ARE APPROXIMATE AND SUBJECT TO CHANGE.
13. BUILDINGS ARE SHOWN AS POTENTIAL DISPLACEMENT IF THE PROPOSED ROW PHYSICALLY INTERSECTS THE EXISTING BUILDING STRUCTURE.
14. CURBS ON MAINLANES, FRONTAGE ROADS AND CROSS STREETS ARE TYPE II (MONO), UNLESS OTHERWISE SHOWN.
15. CONVENTIONAL ROADWAY SIGNAGE (SMALL SIGNS) ARE NOT SHOWN AND WILL BE DEVELOPED DURING THE PS&E PHASE OF THE PROJECT.
16. ALL HORIZONTAL COORDINATES ARE REFERENCED TO THE TEXAS COORDINATE SYSTEM, NORTH CENTRAL ZONE (4202), NORTH AMERICAN DATUM OF 1983 (NAD 83), 2011 ADJUSTMENT, 2010.00 EPOCH. SURFACE DISTANCES AND COORDINATES MAY BE CONVERTED TO GRID BY DIVIDING BY A COMBINED ADJUSTMENT FACTOR OF 1.00015270.
17. ALL COORDINATES AND ELEVATIONS ARE IN U.S. SURVEY FEET.
18. VERTICAL VALUES WERE DETERMINED BY THE TxDOT REAL TIME GPS NETWORK (RTN) (NAD 83 (2011, MA11), PA11) EPOCH 2010.00) WITH THE GEOID12A APPLIED.



TURN LANE DETAIL

TURN LANE DETAIL TABLE

CROSS STREET	MEDIAN NOSE STA	MEDIAN NOSE RADIUS (FT) (A)	STORAGE (FT) (B)	DECELERATION (FT) (C)	TOTAL LENGTH (FT)	L/R	SB/NB
COUNTRY CLUB RD	17+77.52	3	100	275	375	L	NB
COUNTRY CLUB RD	N/A	N/A	100	275	375	R	NB
COUNTRY CLUB RD	19+36.06	3	100	275	375	L	SB
COUNTRY CLUB RD	N/A	N/A	100	170	270	R	SB
PLATEAU DR	42+61.33	21	100	275	375	L	SB
STEWART RD	N/A	N/A	100	275	375	L	NB
STEWART RD	N/A	N/A	100	275	375	R	SB
STEWART RD	N/A	N/A	100	275	375	R	SB

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COLLIN COUNTY
MOHAMED K. BUR, P.E.
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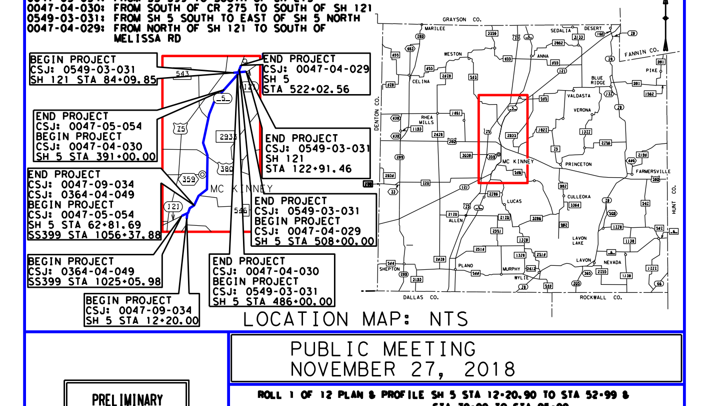
DESIGN SCHEMATIC SH 5
FROM: SOUTH OF FM 1378 TO: SOUTH OF MELISSA RD
PUBLIC MEETING
NOVEMBER 27, 2018
PLAN & PROFILE
SH 5
STA 12+20 TO STA 95+00
ROLL 1 OF 12 ROLLS
S-001



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COLLIN COUNTY
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RURAL MAJOR COLLECTOR	SS 195 (WESTON RD)
URBAN/RURAL LOCAL	ALL OTHER STREETS

DESIGN SPEED	
60 MPH	SS 399 MAINLANE
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30 MPH	ALL OTHER STREETS

PROJECT LENGTH
9.64 MI

CSJ LIMITS
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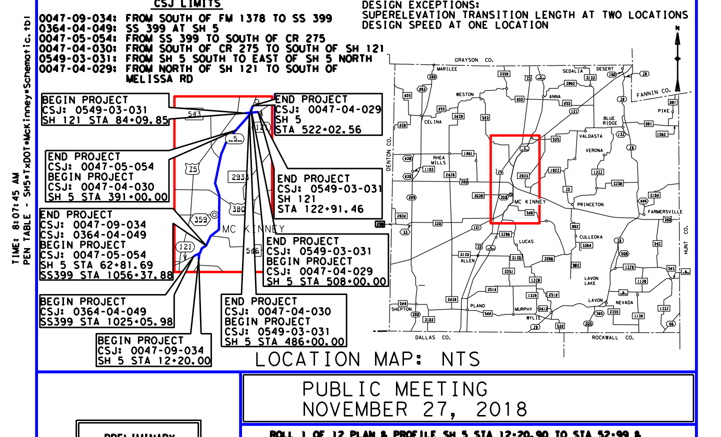
BASIS OF DESIGN: TxDOT ROADWAY DESIGN MANUAL 2014
EQUATIONS: NONE
RAILROADS: NONE
DESIGN EXCEPTIONS:
SUPERELEVATION TRANSITION LENGTH AT TWO LOCATIONS
DESIGN SPEED AT ONE LOCATION

HORIZ. SCALE IN FEET 0 50 100 150 200
VERT. SCALE IN FEET 0 10 20 30 40



LOCATION MAP: NTS

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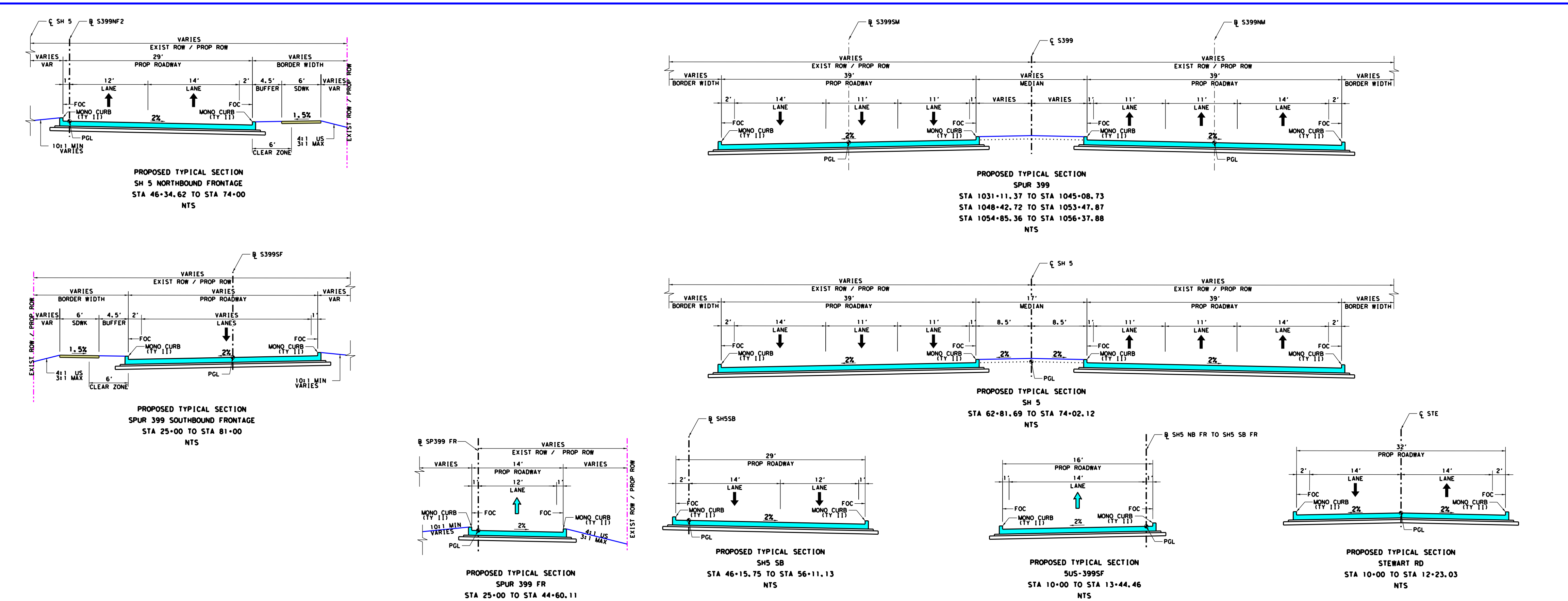
ROLL 12 OF 12 PROFILE RAMPS AND CROSS STREETS

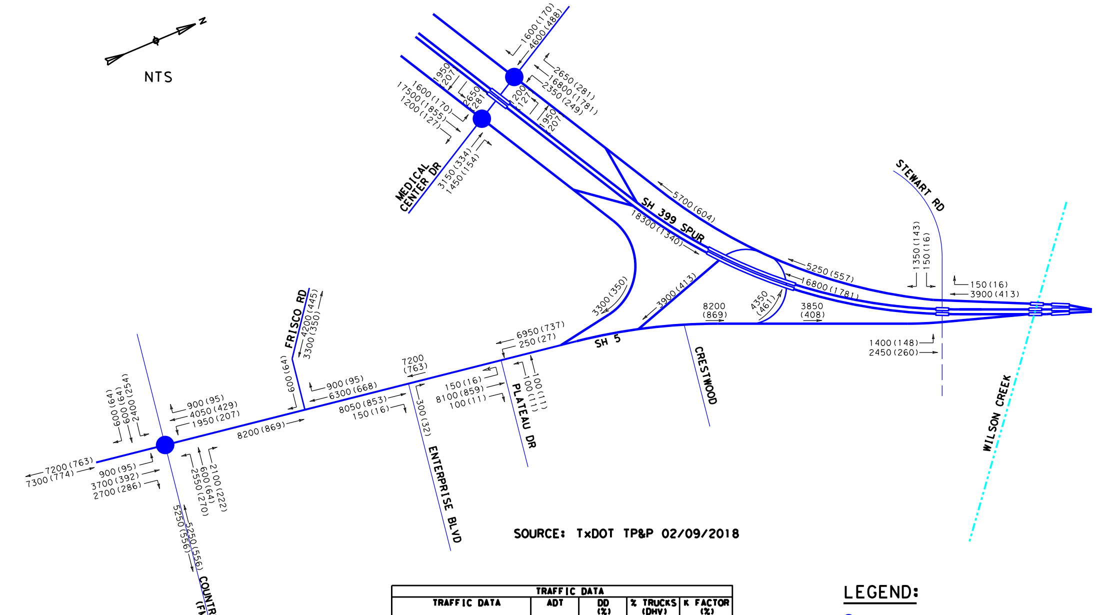
MCi Moreno Cardenas Inc.
Leaders in Project Delivery & Performance
TBPE Firm Registration No. F-000554

PLAN & PROFILE
SH 5
STA 52+99 TO STA 70+00

ROLL 2 OF 12 ROLLS

DESIGNED BY:	FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.		ROLL NO.
MCI	6	XX (XX) XXXX		S-002
DRAWN BY:	STATE	DIST.	COUNTY	
MCI	TEXAS	DAL	COLLIN	
CHECKED BY:	CONT	SEC	JOB	HIGHWAY NO.
MCI	0047	05	054, etc.	SH 5





SOURCE: TxDOT TP&P 02/09/2018

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COLOR LEGEND
- PROPOSED MAINLANES
- PROPOSED BRIDGE
- PROPOSED DRIVEWAY
- PROPOSED CROSS STREET
- PROPOSED DIRECT CONNECTOR
- PROPOSED SIDEWALK
- PROPOSED RAMP
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- PROPOSED NON-PAVED MEDIAN
- 100 YEAR FLOOD PLAIN
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- EXISTING PAVEMENT TO BE REMOVED
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- CENTERLINE/BASELINE (CROSS STREETS)
- CENTERLINE (MAINLANE)
- PROPOSED ROW
- PROPOSED PERMANENT EASEMENT
- PROPOSED TEMPORARY EASEMENT
- CITY LIMITS
- EXISTING ROW
- PROPERTY LINES
- CONTROL OF ACCESS
- PROPOSED RETAINING WALL
- PROPOSED TRAFFIC FLOW
- EXISTING TRAFFIC FLOW
- OVERHEAD TELEPHONE UTIL
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- OVERHEAD CABLE UTIL
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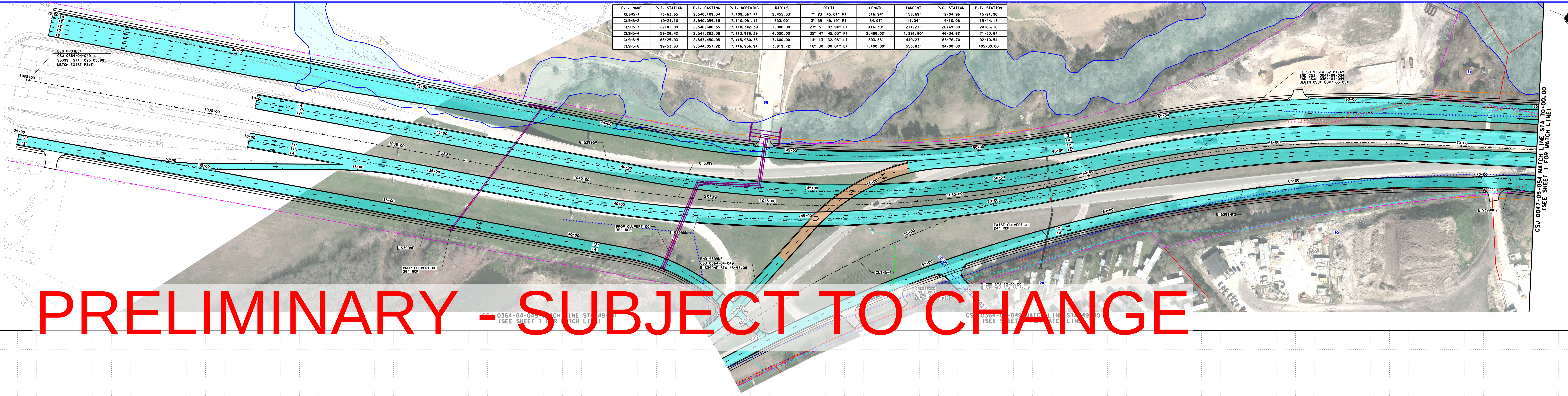
- BURIED ELECTRIC UTIL
- BURIED CABLE UTIL
- BURIED WATER UTIL
- BURIED SEWER UTIL
- BURIED GAS/OIL UTIL
- BURIED SOLID WASTE LINE
- HORIZONTAL CURVE NAME
- PROPERTY ID NUMBER
- EXISTING DRAINAGE STRUCTURES
- PROPOSED DRAINAGE STRUCTURES
- PROPOSED SIGNALIZED INTERSECTION

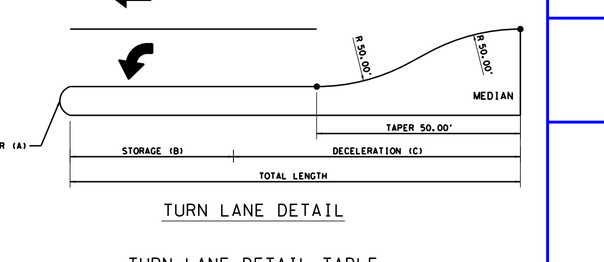
NOTES:
1. ALL DIMENSIONS ARE TO EDGE OF PAVEMENT, FACE OF CURB, RAIL, UNLESS OTHERWISE NOTED.
2. MEDIAN OPENINGS WERE DETERMINED IN COORDINATION WITH LOCAL GOVERNMENT. FINAL LOCATION OF MEDIAN OPENINGS WILL BE DETERMINED IN THE PS&E DEVELOPMENT PHASE IN COORDINATION WITH THE LOCAL GOVERNMENT.
3. SUPERELEVATION AXIS OF ROTATION IS ABOUT THE PGL UNLESS OTHERWISE NOTED.
4. APPROXIMATE 100 YEAR FLOODPLAIN LIMITS ARE BASED UPON FEMA FLOOD INSURANCE RATE MAP 48085C020J (REV JUNE 7, 2017) AND 48085C0290J (REV JUNE 2, 2009) FOR WILSON CREEK, 48085C0165J (REV JUNE 2, 2009) AND 48085C0280J (REV JUNE 2, 2009) FOR EAST FORK TRINITY RIVER.
5. OWNERSHIP INFORMATION SHOWN ON SCHEMATIC OBTAINED FROM COLLIN COUNTY APPRAISAL DISTRICT OCTOBER 2017.
6. EXISTING CULVERT LOCATION, SIZE, AND ELEVATIONS OBTAINED FROM RECORD DOCUMENTS OR TOPOGRAPHIC SURVEY AND ARE SHOWN FOR INFORMATION PURPOSES ONLY.
7. ADA RAMPS ARE NOT DEPICTED IN THE PLAN.
8. FINAL DRIVEWAY LOCATIONS SHALL BE DETERMINED DURING DETAILED DESIGN IN COORDINATION WITH THE CITY OF McKINNEY.
9. ALL PRIVATE DRIVEWAYS HAVE CURB RADII OF 15FT, UNLESS OTHERWISE NOTED.
10. EXIST TOPO AND AERIAL PHOTOS PROVIDED BY TxDOT.
11. EXIST ROW SHOWN PROVIDED BY TxDOT.
12. PARCEL BOUNDARY LOCATIONS ARE APPROXIMATE AND SUBJECT TO CHANGE.
13. BUILDINGS ARE SHOWN AS POTENTIAL DISPLACEMENT IF THE PROPOSED ROW PHYSICALLY INTERSECTS THE EXISTING BUILDING STRUCTURE.
14. CURBS ON MAINLANES, FRONTAGE ROADS AND CROSS STREETS ARE TYPE II (MONO), UNLESS OTHERWISE SHOWN.
15. CONVENTIONAL ROADWAY SIGNAGE (SMALL SIGNS) ARE NOT SHOWN AND WILL BE DEVELOPED DURING THE PS&E PHASE OF THE PROJECT.
16. ALL HORIZONTAL COORDINATES ARE REFERENCED TO THE TEXAS COORDINATE SYSTEM, NORTH CENTRAL ZONE (4202), NORTH AMERICAN DATUM OF 1983 (NAD 83), 2011 ADJUSTMENT, 2010.00 EPOCH. SURFACE DISTANCES AND COORDINATES MAY BE CONVERTED TO GRID BY DIVIDING BY A COMBINED ADJUSTMENT FACTOR OF 1.000152710.
17. ALL COORDINATES AND ELEVATIONS ARE IN U.S. SURVEY FEET.
18. VERTICAL VALUES WERE DETERMINED BY THE TxDOT REAL TIME GPS NETWORK (RTN) (NAD 83 (2011, MA11, PA11) EPOCH 2010.00) WITH THE GEOID12A APPLIED.

P.I. NAME	P.I. STATION	P.I. EASTING	P.I. NORTHING	RADIUS	DELTA	LENGTH	TANGENT	P.C. STATION	P.T. STATION
CLSH5-1	13+63.65	2,540,109.34	7,109,567.41	2,455.33'	7° 23' 45.01" RT	316.94'	158.69'	12+04.96	15+21.90
CLSH5-2	19+27.10	2,540,399.16	7,110,051.11	533.00'	3° 39' 45.19" RT	34.07'	17.04'	19+10.06	19+44.13
CLSH5-3	22+81.09	2,540,600.35	7,110,342.39	1,000.00'	23° 51' 07.94" LT	416.30'	211.21'	20+69.88	24+86.18
CLSH5-4	59+26.42	2,541,283.38	7,113,929.39	4,000.00'	35° 47' 45.03" RT	2,499.02'	1,291.80'	46+34.62	71+33.64
CLSH5-5	88+25.93	2,543,450.95	7,115,980.35	3,600.00'	14° 13' 32.95" LT	893.83'	449.23'	83+76.70	92+70.54
CLSH5-6	99+53.83	2,544,057.22	7,116,936.94	3,819.72'	16° 30' 00.01" LT	1,100.00'	553.83'	94+00.00	105+00.00



PRELIMINARY - SUBJECT TO CHANGE

PENDING PROFILE UPDATES



TURN LANE DETAIL

TURN LANE DETAIL TABLE

CROSS STREET	MEDIAN NOSE STA	MEDIAN NOSE RADIUS (FT) (A)	STORAGE (FT) (B)	DECELERATION (FT) (C)	TOTAL LENGTH (FT)	L/R	SB/NB
COUNTRY CLUB RD	17+77.52	3	100	275	375	L	NB
COUNTRY CLUB RD	N/A	N/A	100	275	375	R	NB
COUNTRY CLUB RD	19+36.06	3	100	275	375	L	SB
COUNTRY CLUB RD	N/A	N/A	100	170	270	R	SB
PLATEAU DR	42+61.33	21	100	275	375	L	SB
STEWART RD	N/A	N/A	100	275	375	L	NB
STEWART RD	N/A	N/A	100	275	375	L	SB
STEWART RD	N/A	N/A	100	275	375	R	SB

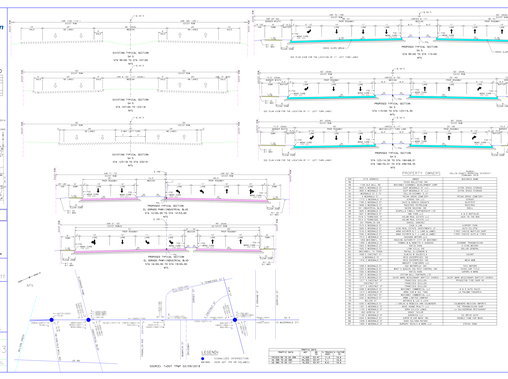
Texas Department of Transportation
DALLAS DISTRICT
COLLIN COUNTY
MOHAMED K. BUR, P.E.
DISTRICT ENGINEER
DESIGN SCHEMATIC SH 5
FROM: SOUTH OF FM 1378 TO: SOUTH OF MELISSA RD
PUBLIC MEETING
NOVEMBER 27, 2018
MCi Moreno Cardenas Inc.
TBPE Firm Registration No. F-000554
PLAN & PROFILE
SH 5
STA 52+99 TO STA 70+00
ROLL 2 OF 12 ROLLS
S-002

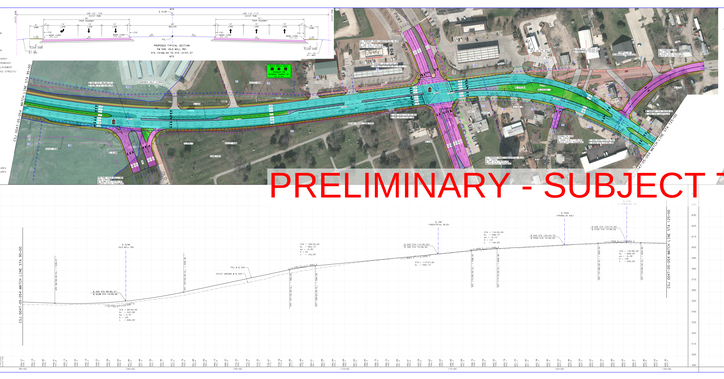
Texas Department of Transportation

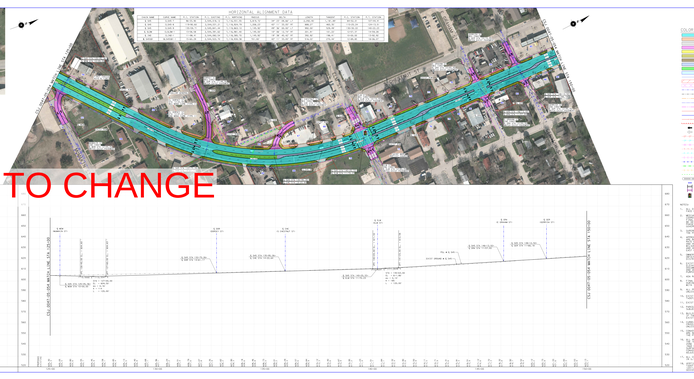
DALLAS DISTRICT
COLLIN COUNTY
MOHAMED K. BUR, P.E.
DISTRICT ENGINEER

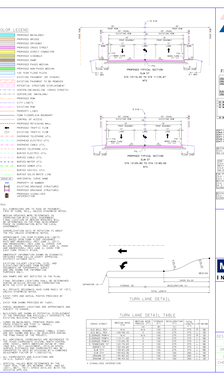
DESIGN SCHEMATIC SH 5

FROM: SOUTH OF FM 1378 TO: SOUTH OF MELISSA RD









PRELIMINARY - SUBJECT TO CHANGE

PUBLIC MEETING
NOVEMBER 27, 2018

Michael Baker INTERNATIONAL
8401 SOUTH CHEROKEE, SUITE 110
PLANO, TEXAS 75024
TBPE Registration No. F-2672

PLAN & PROFILE
SH 5
STA 95+00 TO STA 150+00

SHEETS 5 OF 12 ROLLS

SECONDARY BY:	SEC	DIST	FEDERAL AID PROJECT NO.		SHEET NO.
BAKER	6	XX	XXX XXXX		
DRAWN BY:	STATE	DIST.		COUNTY	S-003
BAKER	TEXAS	DAL		COLLIN	
CHECKED BY:	CONT	SEC	JOB	HIGHWAY NO.	
BAKER	0047	05	054, ETC.	SH 5	

Texas Department of Transportation

DALLAS DISTRICT
COLLIN COUNTY
MOHAMED A. BUR, P.E.
DISTRICT ENGINEER

DESIGN SCHEMATIC SH 5

FROM: SOUTH OF FM 1378 TO: SOUTH OF MELISSA RD

PRELIMINARY - SUBJECT TO CHANGE

PUBLIC MEETING
NOVEMBER 27, 2018

Michael Baker INTERNATIONAL
8401 SOUTH CENTRAL EXPWY.
DALLAS, TX 75241
TBPE Registration No. F-2672

PLAN & PROFILE
SH 5
STA 150+00 TO STA 205+00

SHEET 4 OF 12 SHEETS

DESIGNED BY:	STATE:	DIST.:	COUNTY:	FEDERAL AID PROJECT NO.	SHEET NO.
BAKER	TEXAS	DAL	COLLIN	XX TXXX XXXX	S-004
CHECKED BY:	CONT.	SEC.	JOB.	HIGHWAY NO.	
BAKER	0047	05	058, ETC.	SH 5	

Texas Department of Transportation

DALLAS DISTRICT

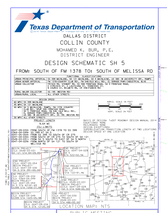
COLLIN COUNTY

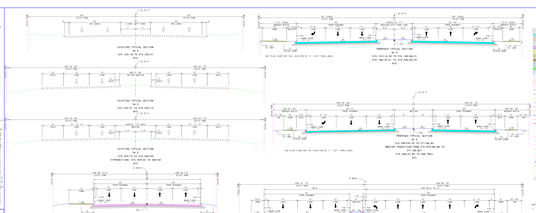
MOHAMED A. BUR, P.E.

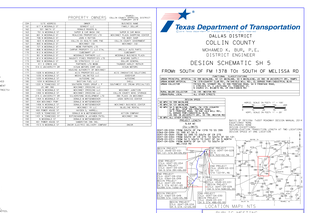
DISTRICT ENGINEER

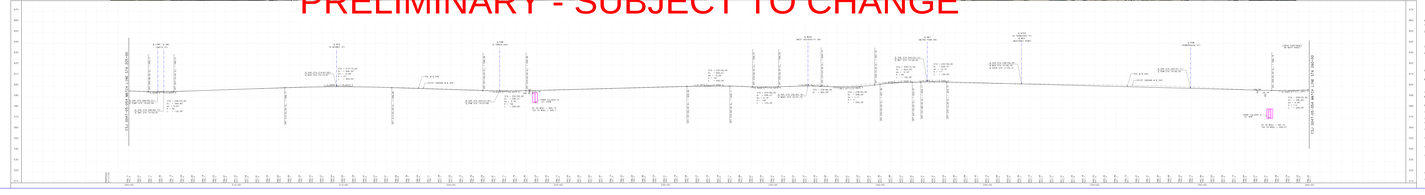
DESIGN SCHEMATIC SH 5

FROM: SOUTH OF FM 1378 TO: SOUTH OF MELISSA RD









Michael Baker INTERNATIONAL

PLAN & PROFILE

SH 5

STA 205+00 TO STA 260+00

SECONDARY BY:	SECT NO.	FEDERAL AID PROJECT NO.	SHEET NO.
DRAWN BY:	STATE	DIST.	COUNTY
BAKER	TEXAS	DAL.	COLLIN
CHECKED BY:	CONT.	SECT.	JOB.
BAKER	0047	05	0549, ETC.

S-005

5 OF 12 ROLLS

HORIZONTAL ALIGNMENT DATA

TURN LANE DETAIL TABLE

Texas Department of Transportation

DALLAS DISTRICT
COLLIN COUNTY
MOHAMED A. BUR, P.E.
DISTRICT ENGINEER

DESIGN SCHEMATIC SH 5

FROM: SOUTH OF FM 1378 TO: SOUTH OF MELISSA RD

PUBLIC MEETING
NOVEMBER 27, 2018

Michael Baker INTERNATIONAL
8401 SH 121 BYPASS
SUITE B-100
MCKINNEY, TX 75069
TBPE Registration No. F-2672

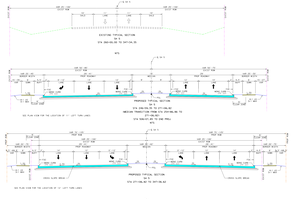
PLAN & PROFILE
SH 5
STA 260+00 TO STA 316+00

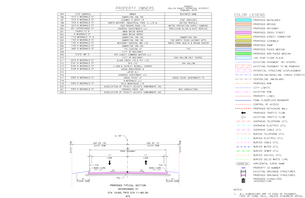
SHEET 6 OF 12 SHEETS

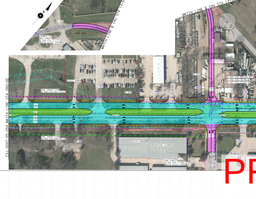
SECONDARY BY	DIST.	COUNTY	FEDERAL AID PROJECT NO.	SHEET NO.
BAKER	6	XX	XXX XXXX	S-006

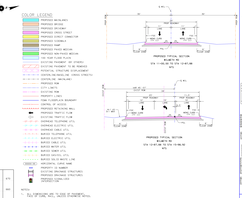
DRAWN BY:	STATE	DIST.	COUNTY
BAKER	TEXAS	DAL	COLLIN

CHECKED BY:	CONT.	SECT.	JOB	HIGHWAY NO.
BAKER	0047	05	058, ETC.	SH 5









Texas Department of Transportation

DALLAS DISTRICT
COLLIN COUNTY
MOHAMED A. BUR, P.E.
DISTRICT ENGINEER

DESIGN SCHEMATIC SH 5

FROM: SOUTH OF FM 1378 TO: SOUTH OF MELISSA RD

PUBLIC MEETING
NOVEMBER 27, 2018

Michael Baker INTERNATIONAL
8401 SH 121 BYPASS
SUITE B-100
MCKINNEY, TX 75069
TBPE Registration No. F-2672

PLAN & PROFILE
SH 5
STA 260+00 TO STA 316+00

SHEET 6 OF 12 SHEETS

SECONDARY BY	DIST.	COUNTY	FEDERAL AID PROJECT NO.	SHEET NO.
BAKER	6	XX	XXX XXXX	S-006

DRAWN BY:	STATE	DIST.	COUNTY
BAKER	TEXAS	DAL	COLLIN

CHECKED BY:	CONT.	SECT.	JOB	HIGHWAY NO.
BAKER	0047	05	058, ETC.	SH 5

Texas Department of Transportation
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DALLAS DISTRICT
COLLIN COUNTY
MOHAMED K. BUR, P.E.
DISTRICT ENGINEER

DESIGN SCHEMATIC SH 5

FROM: SOUTH OF FM 1378 TO: SOUTH OF MELISSA RD

FUNCTIONAL CLASSIFICATIONS	
URBAN PRINCIPAL ARTERIAL	SS 399 MAINLANE, SH 121 MAINLANE, SH 5 MAINLANE, US 380 (W UNIVERSITY DR), RAMPS
URBAN MINOR ARTERIAL	FM 1378 (COUNTRY CLUB RD), FM 546 (OLD MILL RD), EL DORADO PKWY/INDUSTRIAL BLVD
URBAN COLLECTOR	FRISCO RD, STEWART RD, SS 399 FRONTAGE ROAD, SH 5 FRONTAGE ROAD, E VIRGINIA ST, E LOUISIANA ST, TENNESSEE ST, N CHURCH ST, WILMETH RD, CR 338 (FANNIN RD)
RURAL MAJOR COLLECTOR	SS 195 (WESTON RD)
URBAN/RURAL LOCAL	ALL OTHER STREETS

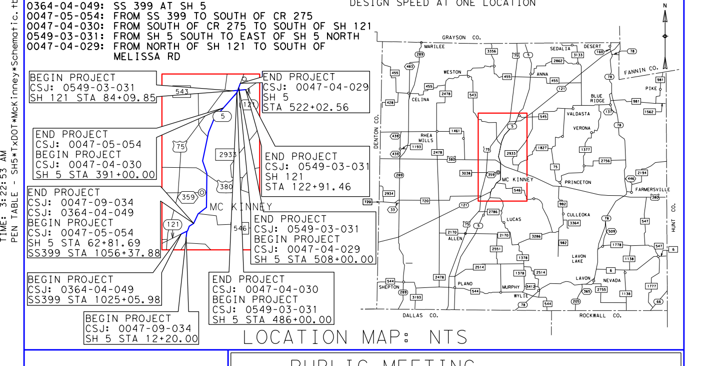
DESIGN SPEED	
60 MPH	SS 399 MAINLANE
45 MPH	SH 121 MAINLANE
40 MPH	SH 5 MAINLANE, RAMPS, FM 1378 (COUNTRY CLUB RD), SPUR 399 FRONTAGE ROAD, SH 5 FRONTAGE ROAD, FM 546 (OLD MILL RD), EL DORADO PKWY/INDUSTRIAL BLVD, US 380 (W UNIVERSITY DR), SS 195 (WESTON RD)
30 MPH	ALL OTHER STREETS

HORIZ. SCALE IN FEET 0 50 100 150 200
0 10 20 30 40 VERT. SCALE IN FEET

PROJECT LENGTH
9.64 MI

BASIS OF DESIGN: TxDOT ROADWAY DESIGN MANUAL 2014
EQUATIONS: NONE
RAILROADS: NONE
DESIGN EXCEPTIONS:
SUPERELEVATION TRANSITION LENGTH AT TWO LOCATIONS
DESIGN SPEED AT ONE LOCATION

CSJ LIMITS
0047-09-034: FROM SOUTH OF FM 1378 TO SS 399
0364-04-049: SS 399 AT SH 5
0047-05-054: FROM SS 399 TO SOUTH OF CR 275
0047-04-030: FROM SOUTH OF CR 275 TO SOUTH OF SH 121
0549-03-031: FROM SH 5 SOUTH TO EAST OF SH 5 NORTH
0047-04-029: FROM NORTH OF SH 121 TO SOUTH OF MELISSA RD



LOCATION MAP: NTS

PRELIMINARY
FOR INTERIM REVIEW ONLY. NOT FOR PERMITTING, BIDDING, OR CONSTRUCTION.
Prepared by or under the Direct Supervision of CAREN D. CHAMBERS P.E. 99772 11/27/2018

PUBLIC MEETING
NOVEMBER 27, 2018

INDEX OF ROLLS
ROLL 1 OF 12 PLAN & PROFILE SH 5 STA 12+20.90 TO STA 52+99 & STA 70+00 TO STA 95+00
ROLL 2 OF 12 PLAN & PROFILE SH 5 STA 52+99 TO STA 70+00
ROLL 3 OF 12 PLAN & PROFILE SH 5 STA 95+00 TO STA 150+00
ROLL 4 OF 12 PLAN & PROFILE SH 5 STA 150+00 TO STA 205+00
ROLL 5 OF 12 PLAN & PROFILE SH 5 STA 205+00 TO STA 260+00
ROLL 6 OF 12 PLAN & PROFILE SH 5 STA 260+00 TO STA 316+00
ROLL 7 OF 12 PLAN & PROFILE SH 5 STA 316+00 TO STA 369+00
ROLL 8 OF 12 PLAN & PROFILE SH 5 STA 369+00 TO STA 425+00
ROLL 9 OF 12 PLAN & PROFILE SH 5 STA 425+00 TO STA 467+00
ROLL 10 OF 12 PLAN & PROFILE SH 5 STA 467+00 TO STA END PROJ
ROLL 11 OF 12 PLAN & PROFILE SH 121 STA 84+09.85 TO STA 122+91.46
ROLL 12 OF 12 PROFILE RAMPS AND CROSS STREETS

Michael Baker INTERNATIONAL
1501 LBJ Freeway, Suite 650, Dallas, TX 75234
TBPE Registration No. F-2677

PLAN & PROFILE
SH 5
STA 316+00 TO STA 369+00
ROLL 7 OF 12 ROLLS

DESIGNED BY:	FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.			ROLL NO.
BAKER	6	XX (XX) XXXX			S-007
DRAWN BY:	STATE	DIST.	COUNTY		
BAKER	TEXAS	DAL	COLLIN		
CHECKED BY:	CONT	SEC	JOB	HIGHWAY NO.	
BAKER	0047	05	054, etc.	SH 5	

DATE: 11/27/2018
FILE: ...\Roadway\MBaker\5PP00*105.dgn
ROLLPLOT - V8i*BAKER*WIN*CO*PDF.pltcfg
TIME: 3:22:53 AM
PEN TABLE - SH5*TxDOT*Mckinney*Schematic.tbl

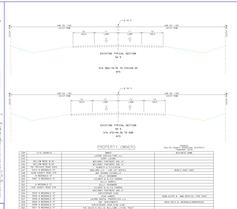
Texas Department of Transportation
DALLAS DISTRICT
COLLIN COUNTY
MOHAMED K. BUR, P.E.
DISTRICT ENGINEER
DESIGN SCHEMATIC SH 5
FROM: SOUTH OF FM 1378 TO: SOUTH OF MELISSA RD
PUBLIC MEETING
NOVEMBER 27, 2018
Michael Baker INTERNATIONAL
PLAN & PROFILE
SH 5
STA 316+00 TO STA 369+00
ROLL 7 OF 12 ROLLS
S-007

Texas Department of Transportation

DALLAS DISTRICT
COLLIN COUNTY
MOHAMED A. BUR, P.E.
DISTRICT ENGINEER

DESIGN SCHEMATIC SH 5

FROM: SOUTH OF FM 1378 TO: SOUTH OF MELISSA RD



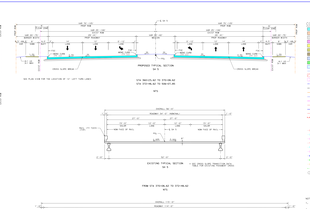
PUBLIC MEETING
NOVEMBER 27, 2018

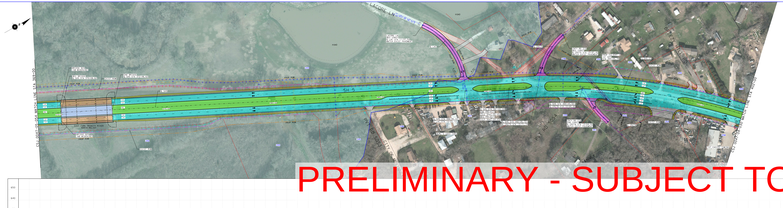
Michael Baker INTERNATIONAL
8000 ROUTE 290 EAST
AUSTIN, TX 78724
TBPE Registration No. F-2672

PLAN & PROFILE
SH 5
STA 369+00 TO STA 425+00

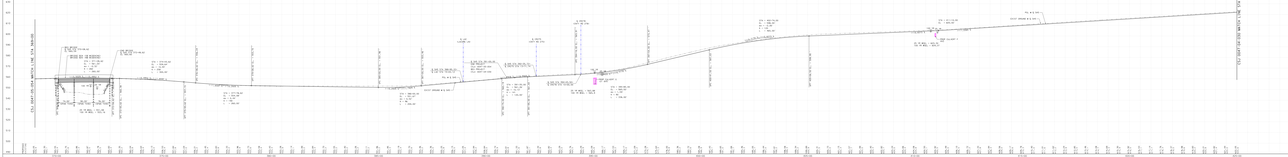
SHOLS - 8 OF 12 ROLLS

DESIGNED BY:	CONT. SECT.	JOB	FEDERAL AID PROJECT NO.	SHEET NO.
BAKER	6	48	XXX XXXX	S-008
DRAWN BY:	STATE	DIST.	COUNTY	
BAKER	TEXAS	DAL	COLLIN	
CHECKED BY:	CONT.	SEC.	JOB	HIGHWAY NO.
BAKER	0047	05	054, ETC.	SH 5





PRELIMINARY - SUBJECT TO CHANGE



Texas Department of Transportation

DALLAS DISTRICT
COLLIN COUNTY
MOHAMED A. BUR, P.E.
DISTRICT ENGINEER

DESIGN SCHEMATIC SH 5

FROM: SOUTH OF FM 1378 TO: SOUTH OF MELISSA RD

PUBLIC MEETING
NOVEMBER 27, 2018

Michael Baker INTERNATIONAL
8000 ROUTE 290 EAST
AUSTIN, TX 78724
TBPE Registration No. F-2672

PLAN & PROFILE
SH 5
STA 369+00 TO STA 425+00

SHOLS - 8 OF 12 ROLLS

DESIGNED BY:	CONT. SECT.	JOB	FEDERAL AID PROJECT NO.	SHEET NO.
BAKER	6	48	XXX XXXX	S-008
DRAWN BY:	STATE	DIST.	COUNTY	
BAKER	TEXAS	DAL	COLLIN	
CHECKED BY:	CONT.	SEC.	JOB	HIGHWAY NO.
BAKER	0047	05	054, ETC.	SH 5

Texas Department of Transportation

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DALLAS DISTRICT

COLLIN COUNTY

MOHAMED K. BUR, P.E.
DISTRICT ENGINEER

DESIGN SCHEMATIC SH 5

FROM: SOUTH OF FM 1378 TO: SOUTH OF MELISSA RD

FUNCTIONAL CLASSIFICATIONS	
URBAN PRINCIPAL ARTERIAL	SS 399 MAINLANE, SH 121 MAINLANE, SH 5 MAINLAINE, US 380 (W UNIVERSITY DR), RAMPS
URBAN MINOR ARTERIAL	FM 1378(COUNTRY CLUB RD), FM 546(OLD MILL RD), EL DORADO PKWY/INDUSTRIAL BLVD
URBAN COLLECTOR	FRISCO RD, STEWART RD, SS 399 FRONTAGE ROAD, SH 5 FRONTAGE ROAD, E VIRGINIA ST, E LOUISIANA ST, TENNESSEE ST, N CHURCH ST, WILMETH RD, CR 338(FANNIN RD)
RURAL MAJOR COLLECTOR	SS 195 (WESTON RD)
URBAN/RURAL LOCAL	ALL OTHER STREETS

DESIGN SPEED	
60 MPH	SS 399 MAINLANE
45 MPH	SH 121 MAINLANE
40 MPH	SH 5 MAINLAINE, RAMPS, FM 1378 (COUNTRY CLUB RD), SPUR 399 FRONTAGE ROAD, SH 5 FRONTAGE ROAD, FM 546 (OLD MILL RD), EL DORADO PKWY/INDUSTRIAL BLVD, US 380 (W UNIVERSITY DR), SS 195 (WESTON RD)
30 MPH	ALL OTHER STREETS

HORIZ. SCALE IN FEET: 0, 50, 100, 150, 200
VERT. SCALE IN FEET: 0, 10, 20, 30, 40

PROJECT LENGTH
9.64 MI

CSJ LIMITS
0047-09-034: FROM SOUTH OF FM 1378 TO SS 399
0364-04-049: SS 399 AT SH 5
0047-05-054: FROM SS 399 TO SOUTH OF CR 275

BASIS OF DESIGN: TxDOT ROADWAY DESIGN MANUAL 2014
EQUATIONS: NONE
RAILROADS: NONE
DESIGN EXCEPTIONS:
SUPERELEVATION TRANSITION LENGTH AT TWO LOCATIONS
DESIGN SPEED AT ONE LOCATION

LOCATION MAP: NTS

PRELIMINARY
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Prepared by or under the Direct Supervision of
CAREN D. CHAMBERS P.E. 99772
11/27/2018

PUBLIC MEETING
NOVEMBER 27, 2018

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ROLL 1 OF 12 PLAN & PROFILE SH 5 STA 12+20.90 TO STA 52+99 & STA 70+00 TO STA 95+00
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ROLL 11 OF 12 PLAN & PROFILE SH 121 STA 84+09.85 TO STA 122+91.46
ROLL 12 OF 12 PROFILE RAMPS AND CROSS STREETS

Michael Baker INTERNATIONAL
1501 LBJ Freeway,
Suite 650,
Dallas, TX 75234
TBPE Registration No. F-2677

PLAN & PROFILE
SH 5
STA 425+00 TO 467+00
ROLL 9 OF 12 ROLLS

DESIGNED BY:	FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.		ROLL NO.
BAKER	6	XX (XX) XXXX		S-009
DRAWN BY:	STATE	DIST.	COUNTY	
BAKER	TEXAS	DAL	COLLIN	
CHECKED BY:	CONT	SEC	JOB	HIGHWAY NO.
BAKER	0047	05	054, etc.	SH 5

DATE: 11/27/2018
FILE: ...\Roadway\MBaker\5PP00*107.dgn
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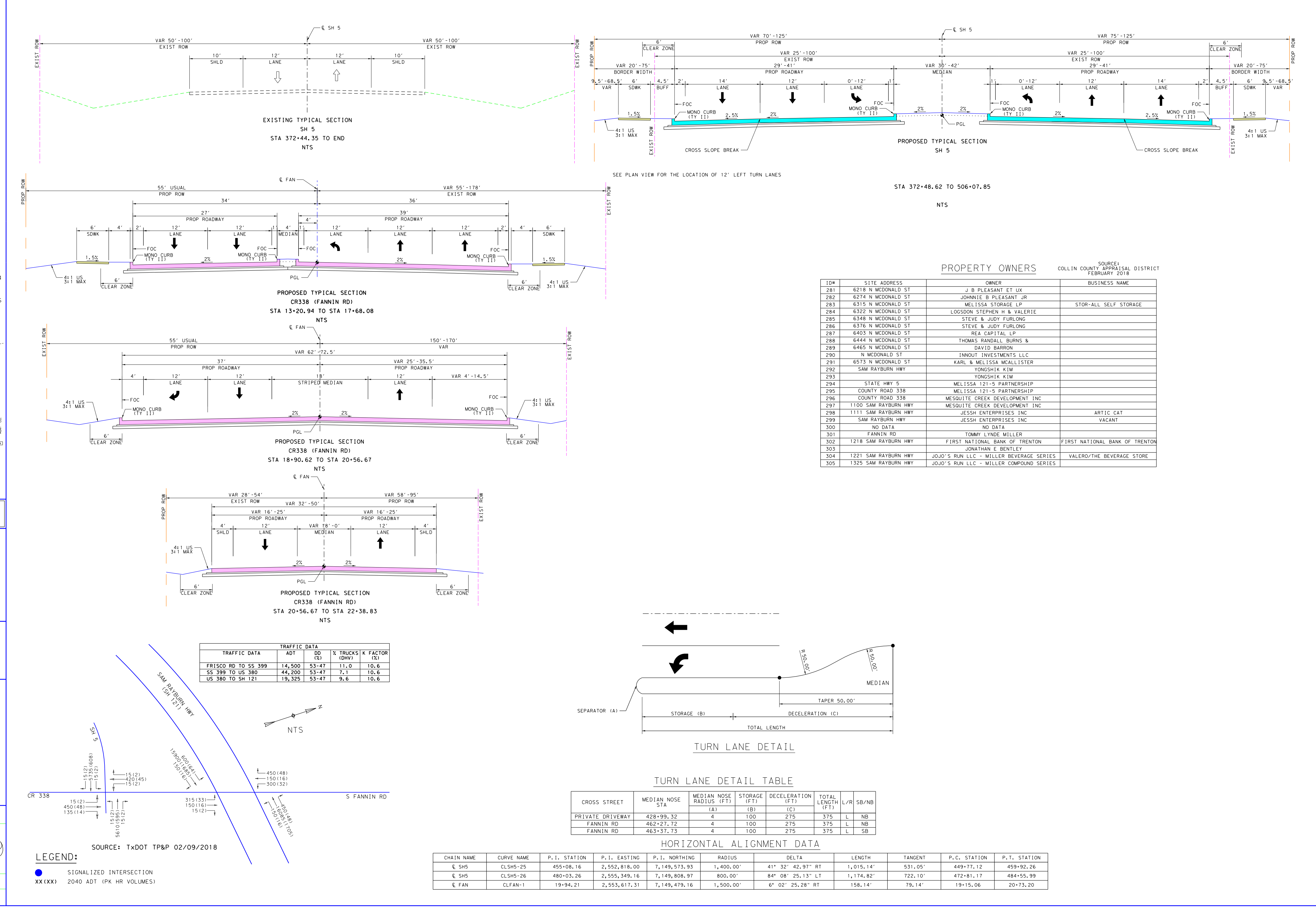

PRELIMINARY - SUBJECT TO CHANGE

Texas Department of Transportation
DALLAS DISTRICT
COLLIN COUNTY
MOHAMED K. BUR, P.E.
DISTRICT ENGINEER
DESIGN SCHEMATIC SH 5
FROM: SOUTH OF FM 1378 TO: SOUTH OF MELISSA RD
PUBLIC MEETING
NOVEMBER 27, 2018
Michael Baker INTERNATIONAL
PLAN & PROFILE
SH 5
STA 425+00 TO 467+00
ROLL 9 OF 12 ROLLS
S-009

Texas Department of Transportation

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DALLAS DISTRICT

COLLIN COUNTY

MOHAMED K. BUR, P.E.
DISTRICT ENGINEER

DESIGN SCHEMATIC SH 5

FROM: SOUTH OF FM 1378 TO: SOUTH OF MELISSA RD

FUNCTIONAL CLASSIFICATIONS	
URBAN PRINCIPAL ARTERIAL	SS 399 MAINLANE, SH 121 MAINLANE, SH 5 MAINLAINE, US 380 (W UNIVERSITY DR), RAMPS
URBAN MINOR ARTERIAL	FM 1378 (COUNTRY CLUB RD), FM 546 (OLD MILL RD), EL DORADO PKWY/INDUSTRIAL BLVD
URBAN COLLECTOR	FRISCO RD, STEWART RD, SS 399 FRONTAGE ROAD, SH 5 FRONTAGE ROAD, E VIRGINIA ST, E LOUISIANA ST, TENNESSEE ST, N CHURCH ST, WILMETH RD, CR 338 (FANNIN RD)
RURAL MAJOR COLLECTOR	SS 195 (WESTON RD)
URBAN/RURAL LOCAL	ALL OTHER STREETS

DESIGN SPEED	
60 MPH	SS 399 MAINLANE
45 MPH	SH 121 MAINLANE
40 MPH	SH 5 MAINLAINE, RAMPS, FM 1378 (COUNTRY CLUB RD), SPUR 399 FRONTAGE ROAD, SH 5 FRONTAGE ROAD, FM 546 (OLD MILL RD), EL DORADO PKWY/INDUSTRIAL BLVD, US 380 (W UNIVERSITY DR), SS 195 (WESTON RD)
30 MPH	ALL OTHER STREETS

HORIZ. SCALE IN FEET 0 50 100 150 200
VERT. SCALE IN FEET 0 10 20 30 40

PROJECT LENGTH
9.64 MI

CSJ LIMITS
0047-09-034: FROM SOUTH OF FM 1378 TO SS 399
0364-04-049: SS 399 AT SH 5
0047-05-054: FROM SS 399 TO SOUTH OF CR 275

BASIS OF DESIGN: TxDOT ROADWAY DESIGN MANUAL 2014
EQUATIONS: NONE
RAILROADS: NONE
DESIGN EXCEPTIONS:
SUPERELEVATION TRANSITION LENGTH AT TWO LOCATIONS
DESIGN SPEED AT ONE LOCATION

BEGIN PROJECT CSJ: 0364-04-049 SS399 STA 1025+05.98
BEGIN PROJECT CSJ: 0047-09-034 SH 5 STA 12+20.00
END PROJECT CSJ: 0047-04-030 BEGIN PROJECT CSJ: 0549-03-031 SH 5 STA 486+00.00
BEGIN PROJECT CSJ: 0047-04-029 SH 5 STA 508+00.00

LOCATION MAP: NTS

PRELIMINARY
FOR INTERIM REVIEW ONLY. NOT FOR PERMITTING, BIDDING, OR CONSTRUCTION.
Prepared by or under the Direct Supervision of
CAREN D. CHAMBERS P.E. 99772
11/27/2018

PUBLIC MEETING
NOVEMBER 27, 2018

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- ROLL 2 OF 12 PLAN & PROFILE SH 5 STA 52+99 TO STA 70+00
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- ROLL 5 OF 12 PLAN & PROFILE SH 5 STA 205+00 TO STA 260+00
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- ROLL 7 OF 12 PLAN & PROFILE SH 5 STA 316+00 TO STA 369+00
- ROLL 8 OF 12 PLAN & PROFILE SH 5 STA 369+00 TO STA 425+00
- ROLL 9 OF 12 PLAN & PROFILE SH 5 STA 425+00 TO STA 467+00
- ROLL 10 OF 12 PLAN & PROFILE SH 5 STA 467+00 TO STA END PROJ
- ROLL 11 OF 12 PLAN & PROFILE SH 121 STA 84+09.85 TO STA 122+91.46
- ROLL 12 OF 12 PROFILE RAMPS AND CROSS STREETS

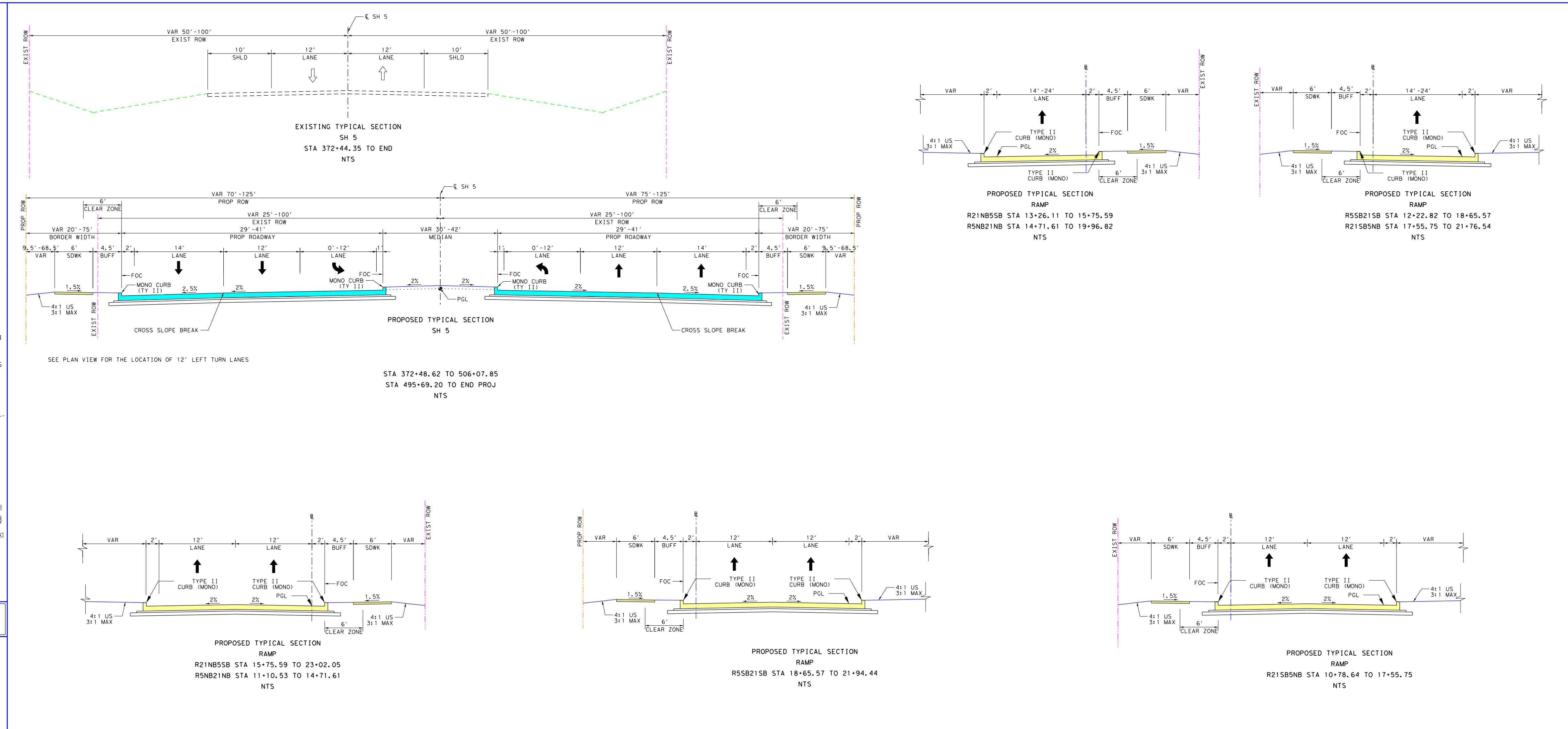
Michael Baker INTERNATIONAL
1501 LBJ Freeway,
Suite 650,
Dallas, TX 75234
TBPE Registration No. F-2677

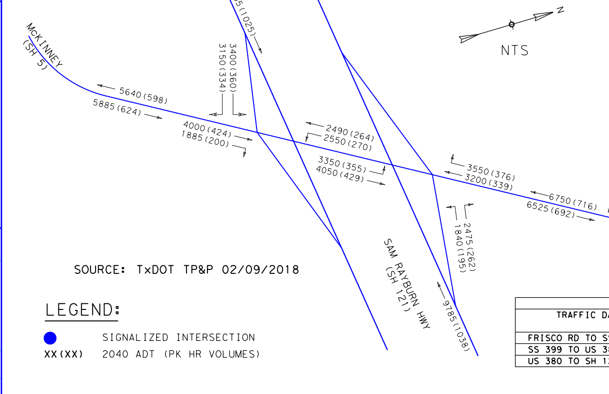
PLAN & PROFILE
SH 5
STA 467+00 TO END PROJ

ROLL 10 OF 12 ROLLS

DESIGNED BY:	FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.		ROLL NO.
BAKER	6	XX (XX) XXXX		S-010
DRAWN BY:	STATE	DIST.	COUNTY	
BAKER	TEXAS	DAL	COLLIN	
CHECKED BY:	CONT	SEC	JOB	HIGHWAY NO.
BAKER	0047	05	054, etc.	SH 5

DATE: 11/27/2018
FILE: ...\Roadway\MBaker\5PP00*108.dgn
ROLLPLOT - V8i*BAKER*WIN*CO*PDF.pltcfg





SOURCE: TxDOT TP&P

LEGEND:
SIGNALIZED INTERSECTION
XX(XX) 2040 ADT (PK HR VOLUME)

HORIZONTAL ALIGNMENT DATA

CHAIN NAME	CURVE NAME	P.I. STATION	P.I. EASTING	P.I. NORTHING	RADIUS	DELTA	LENGTH	TANGENT	P.C. STATION	P.T. STATION
℄ SH5	CLSH5-26	480+03.26	2,555,349.16	7,149,808.97	800.00′	84° 08′ 25.13" LT	1,174.82′	722.10′	472+81.17	484+55.99
℄ SH5	CLSH5-27	506+89.47	2,555,377.77	7,152,764.41	1,400.00′	25° 02′ 49.59" RT	612.02′	310.98′	503+78.50	509+90.51
℄ R21NB5SB	BLR21NB5SB-1	11+87.95	2,554,419.91	7,150,997.53	3,800.00′	5° 39′ 47.20" RT	375.59′	187.95′	10+00.00	13+75.59
℄ R21NB5SB	BLR21NB5SB-2	19+40.69	2,555,052.48	7,151,406.09	1,200.00′	11° 35′ 17.01" LT	242.70′	121.77′	18+18.92	20+61.62
℄ R5NB21NB	BLR5NB21NB-1	14+14.18	2,555,663.14	7,151,988.23	1,210.00′	6° 52′ 55.95" LT	145.34′	72.76′	13+41.42	14+86.76
℄ R5NB21NB	BLR5NB21NB-2	20+06.12	2,556,013.21	7,152,465.57	1,500.00′	13° 08′ 33.93" RT	344.08′	172.80′	18+33.32	21+77.40
℄ R5SB21SB	BLR5SB21SB-1	12+19.37	2,554,749.19	7,151,444.61	1,500.00′	16° 38′ 27.17" LT	435.66′	219.37′	10+00.00	14+35.66
℄ R5SB21SB	BLR5SB21SB-2	17+37.88	2,555,006.14	7,151,898.43	1,135.15′	6° 48′ 05.98" RT	134.76′	67.46′	16+70.42	18+05.18
℄ R5SB21SB	BLR5SB21SB-3	18+86.03	2,555,093.77	7,152,018.05	1,109.84′	8° 20′ 02.15" RT	161.43′	80.86′	18+05.18	19+66.61
℄ R21SB5NB	BLR21SB5NB-1	15+42.40	2,555,763.57	7,152,651.57	1,200.00′	21° 11′ 41.64" RT	443.90′	224.52′	13+17.88	17+61.79
℄ R21SB5NB	BLR21SB5NB-2	21+84.48	2,556,360.42	7,152,901.86	2,000.00′	14° 19′ 43.19" LT	500.16′	251.39′	19+33.09	24+33.25

COLOR LEGEND

EXISTING DRAINAGE STRUCTURES
PROPOSED DRAINAGE STRUCTURES
PROPOSED SIGNALIZED INTERSECTION

NOTES:

1. ALL DIMENSIONS ARE TO EDGE OF PAVEMENT, FACE OF CURB, RAIL, UNLESS OTHERWISE NOTED.
2. MEDIAN OPENINGS WERE DETERMINED IN COORDINATION WITH LOCAL GOVERNMENT. FINAL LOCATION OF MEDIAN OPENINGS WILL BE DETERMINED IN THE PS&E DEVELOPMENT PHASE IN COORDINATION WITH THE LOCAL GOVERNMENT.
3. SUPERELEVATION AXIS OF ROTATION IS ABOUT THE PGL UNLESS OTHERWISE NOTED.
4. APPROXIMATE 100 YEAR FLOODPLAIN LIMITS ARE BASED UPON FEMA FLOOD INSURANCE RATE MAP 48085C020J (REV JUNE 7, 2017) AND 48085C0290J (REV JUNE 2, 20009) FOR WILSON CREEK, 48085C0165J (REV JUNE 2, 2009) AND 48085C0280J (REV JUNE 2, 2009) FOR EAST FORK TRINITY RIVER.
5. OWNERSHIP INFORMATION SHOWN ON SCHEMATIC OBTAINED FROM COLLIN COUNTY APPRAISAL DISTRICT OCTOBER 2017.
6. EXISTING CULVERT LOCATION, SIZE, AND ELEVATIONS OBTAINED FROM RECORD DOCUMENTS OR TOPOGRAPHIC SURVEY AND ARE SHOWN FOR INFORMATION PURPOSES ONLY.
7. ADA RAMPS ARE NOT DEPICTED IN THE PLAN.
8. FINAL DRIVEWAY LOCATIONS SHALL BE DETERMINED DURING DETAILED DESIGN IN COORDINATION WITH THE CITY OF McKINNEY.
9. ALL PRIVATE DRIVEWAYS HAVE CURB RADII OF 15FT, UNLESS OTHERWISE NOTED.
10. EXIST TOPO AND AERIAL PHOTOS PROVIDED BY TxDOT.
11. EXIST ROW SHOWN PROVIDED BY TxDOT.
12. PARCEL BOUNDARY LOCATIONS ARE APPROXIMATE AND SUBJECT TO CHANGE.
13. BUILDINGS ARE SHOWN AS POTENTIAL DISPLACEMENT IF THE PROPOSED ROW PHYSICALLY INTERSECTS THE EXISTING BUILDING STRUCTURE.
14. CURBS ON MAINLANES, FRONTAGE ROADS AND CROSS STREETS ARE TYPE II (MONO), UNLESS OTHERWISE SHOWN.
15. CONVENTIONAL ROADWAY SIGNAGE (SMALL SIGNS) ARE NOT SHOWN AND WILL BE DEVELOPED DURING THE PS&E PHASE OF THE PROJECT.
16. ALL HORIZONTAL COORDINATES ARE REFERENCED TO THE TEXAS COORDINATE SYSTEM, NORTH CENTRAL ZONE (4202), NORTH AMERICAN DATUM OF 1983 (NAD 83), 2011 ADJUSTMENT, 2010.00 EPOCH. SURFACE DISTANCES AND COORDINATES MAY BE CONVERTED TO GRID BY DIVIDING BY A COMBINED ADJUSTMENT FACTOR OF 1.000152710.
17. ALL COORDINATES AND ELEVATIONS ARE IN U.S. SURVEY FEET.
18. VERTICAL VALUES WERE DETERMINED BY THE TxDOT REAL TIME GPS NETWORK (RTN) (NAD 83 (2011, MA11, PA11) EPOCH 2010.00) WITH THE GEOID12A APPLIED.

PRELIMINARY - SUBJECT TO CHANGE

Texas Department of Transportation
DALLAS DISTRICT
COLLIN COUNTY
MOHAMED K. BUR, P.E.
DISTRICT ENGINEER
DESIGN SCHEMATIC SH 5
FROM: SOUTH OF FM 1378 TO: SOUTH OF MELISSA RD
PUBLIC MEETING
NOVEMBER 27, 2018
Michael Baker INTERNATIONAL
PLAN & PROFILE
SH 5
STA 467+00 TO END PROJ
ROLL 10 OF 12 ROLLS
S-010

Texas Department of Transportation
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DALLAS DISTRICT
COLLIN COUNTY
MOHAMED K. BUR, P.E.
DISTRICT ENGINEER

DESIGN SCHEMATIC SH 5

FROM: SOUTH OF FM 1378 TO: SOUTH OF MELISSA RD

FUNCTIONAL CLASSIFICATIONS	
URBAN PRINCIPAL ARTERIAL	SS 399 MAINLANE, SH 121 MAINLANE, SH 5 MAINLANE, US 380 (W UNIVERSITY DR), RAMPS
URBAN MINOR ARTERIAL	FM 1378(COUNTRY CLUB RD), FM 546(OLD MILL RD), EL DORADO PKWY/INDUSTRIAL BLVD
URBAN COLLECTOR	FRISCO RD, STEWART RD, SS 399 FRONTAGE ROAD, SH 5 FRONTAGE ROAD, E VIRGINIA ST, E LOUISIANA ST, TENNESSEE ST, N CHURCH ST, WILMETH RD, CR 338(FANNIN RD)
RURAL MAJOR COLLECTOR	SS 195 (WESTON RD)
URBAN/RURAL LOCAL	ALL OTHER STREETS

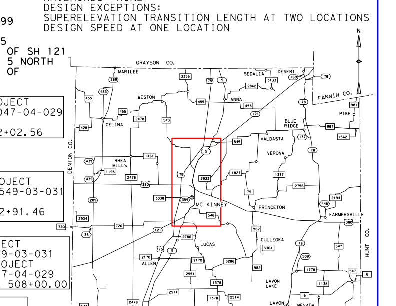
DESIGN SPEED	
60 MPH	SS 399 MAINLANE
45 MPH	SH 121 MAINLANE
40 MPH	SH 5 MAINLANE, RAMPS, FM 1378 (COUNTRY CLUB RD), SPUR 399 FRONTAGE ROAD, SH 5 FRONTAGE ROAD, FM 546 (OLD MILL RD), EL DORADO PKWY/INDUSTRIAL BLVD, US 380 (W UNIVERSITY DR), SS 195 (WESTON RD)
30 MPH	ALL OTHER STREETS

HORIZ. SCALE IN FEET: 0 50 100 150 200
VERT. SCALE IN FEET: 0 10 20 30 40

PROJECT LENGTH
9.64 MI

CSJ LIMITS
0047-09-034: FROM SOUTH OF FM 1378 TO SS 399
0364-04-049: SS 399 AT SH 5
0047-05-054: FROM SS 399 TO SOUTH OF CR 275
0047-04-030: FROM SOUTH OF CR 275 TO SOUTH OF SH 121
0549-03-031: FROM SH 5 SOUTH TO EAST OF SH 5 NORTH
0047-04-029: FROM NORTH OF SH 121 TO SOUTH OF MELISSA RD

BASIS OF DESIGN: TxDOT ROADWAY DESIGN MANUAL 2014
EQUATIONS: NONE
RAILROADS: NONE
DESIGN EXCEPTIONS:
SUPERELEVATION TRANSITION LENGTH AT TWO LOCATIONS
DESIGN SPEED AT ONE LOCATION



LOCATION MAP: NTS

PRELIMINARY
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CAREN D. CHAMBERS P.E. 99177
11/27/2018

PUBLIC MEETING
NOVEMBER 27, 2018

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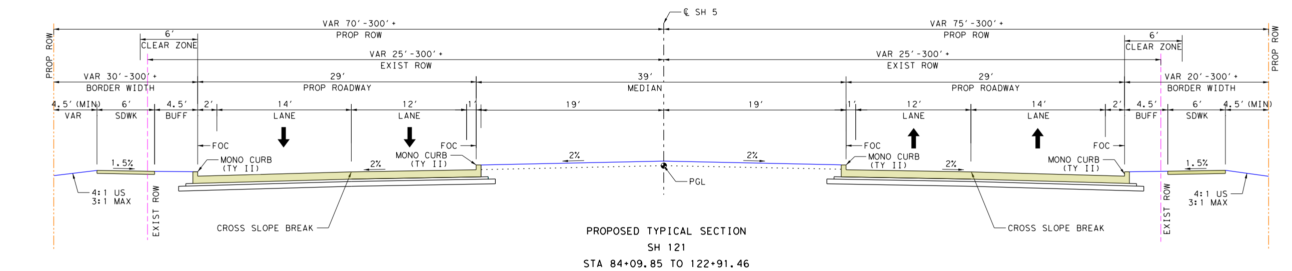
ROLL 11 OF 12 PLAN & PROFILE SH 121 STA 84+09.85 TO STA 122+91.46
ROLL 12 OF 12 PROFILE RAMPS AND CROSS STREETS

Michael Baker INTERNATIONAL
1501 LBJ Freeway,
Suite 650,
Dallas, TX 75234
TBPE Registration No. F-2677

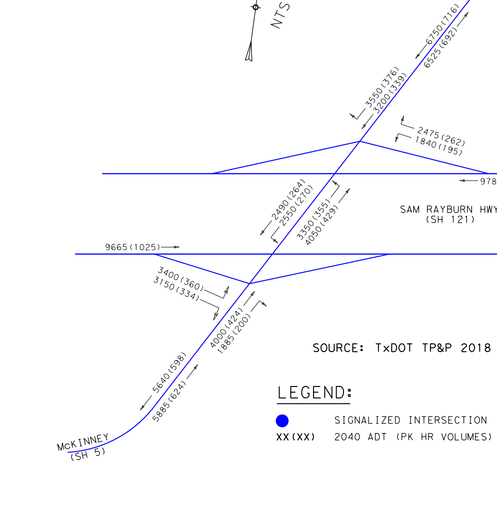
PLAN & PROFILE
SH 121
STA 75+00 TO STA 122+91

ROLL 11 OF 12 ROLLS

DESIGNED BY:	FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.		ROLL NO.
BAKER	6	XX (XX) XXXX		S-011
DRAWN BY:	STATE	DIST.	COUNTY	
BAKER	TEXAS	DAL	COLLIN	
CHECKED BY:	CONT	SEC	JOB	HIGHWAY NO.
BAKER	0047	05	054, etc.	SH 5



PROPOSED TYPICAL SECTION
SH 121
STA 84+09.85 TO 122+91.46
NTS



SOURCE: TxDOT TP&P 2018

LEGEND:
● SIGNALIZED INTERSECTION
XX(XX) 2040 ADT (PK HR VOLUMES)

TRAFFIC DATA	ADT	DD (%)	% TRUCKS (DHV)	K FACTOR (%)
FRISCO RD TO SS 399	14,500	53-47	11.0	10.6
SS 399 TO US 380	44,200	53-47	7.1	10.6
US 380 TO SH 121	19,325	53-47	9.6	10.6

HORIZONTAL ALIGNMENT DATA

CHAIN NAME	CURVE NAME	P.I. STATION	P.I. EASTING	P.I. NORTHING	RADIUS	DELTA	LENGTH	TANGENT	P.C. STATION	P.T. STATION
℄ SH121	CLSH121-1	71+14.04	2,552,653.56	7,149,659.95	3,818.59'	32° 31' 42.01" LT	2,167.92'	1,114.04'	60+00.00	81+67.92
℄ SH121	CLSH121-2	94+46.22	2,554,530.14	7,151,143.79	6,000.00'	7° 20' 21.91" LT	768.58'	384.82'	90+61.41	98+29.99
℄ SH121	CLSH121-3	106+55.55	2,555,375.89	7,152,009.66	5,000.00'	5° 46' 35.03" RT	504.09'	252.26'	104+03.29	109+07.38
℄ SH121	CLSH121-4	121+36.13	2,556,512.12	7,152,959.59	5,000.00'	3° 33' 39.92" RT	310.76'	155.43'	119+80.70	122+91.46

COLOR LEGEND
- PROPOSED MAINLANES
- PROPOSED BRIDGE
- PROPOSED DRIVEWAY
- PROPOSED CROSS STREET
- PROPOSED DIRECT CONNECTOR
- PROPOSED SIDEWALK
- PROPOSED RAMP
- PROPOSED PAVED MEDIAN
- PROPOSED NON-PAVED MEDIAN
- 100 YEAR FLOOD PLAIN
- EXISTING PAVEMENT (BY OTHERS)
- EXISTING PAVEMENT TO BE REMOVED
- POTENTIAL STRUCTURE DISPLACEMENT
- CENTERLINE/BASELINE (CROSS STREETS)
- CENTERLINE (MAINLANE)
- PROPOSED ROW
- CITY LIMITS
- EXISTING ROW
- PROPERTY LINES
- FEMA FLOODPLAIN BOUNDARY
- CONTROL OF ACCESS
- PROPOSED RETAINING WALL
- PROPOSED TRAFFIC FLOW
- EXISTING TRAFFIC FLOW
- OVERHEAD TELEPHONE UTIL
- OVERHEAD ELECTRIC UTIL
- OVERHEAD CABLE UTIL
- BURIED TELEPHONE UTIL
- BURIED ELECTRIC UTIL
- BURIED CABLE UTIL
- BURIED WATER UTIL
- BURIED SEWER UTIL
- BURIED GAS/OIL UTIL
- BURIED SOLID WASTE LINE
- (XXXXX-XX) HORIZONTAL CURVE NAME
- XXX PROPERTY ID NUMBER
- EXISTING DRAINAGE STRUCTURES
- PROPOSED DRAINAGE STRUCTURES
- PROPOSED SIGNALIZED INTERSECTION

NOTES:
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5. OWNERSHIP INFORMATION SHOWN ON SCHEMATIC OBTAINED FROM COLLIN COUNTY APPRAISAL DISTRICT OCTOBER 2017.
6. EXISTING CULVERT LOCATION, SIZE, AND ELEVATIONS OBTAINED FROM RECORD DOCUMENTS OR TOPOGRAPHIC SURVEY AND ARE SHOWN FOR INFORMATION PURPOSES ONLY.
7. ADA RAMPS ARE NOT DEPICTED IN THE PLAN.
8. FINAL DRIVEWAY LOCATIONS SHALL BE DETERMINED DURING DETAILED DESIGN IN COORDINATION WITH THE CITY OF McKINNEY.
9. ALL PRIVATE DRIVEWAYS HAVE CURB RADII OF 15FT, UNLESS OTHERWISE NOTED.
10. EXIST TOPO AND AERIAL PHOTOS PROVIDED BY TxDOT.
11. EXIST ROW SHOWN PROVIDED BY TxDOT.
12. PARCEL BOUNDARY LOCATIONS ARE APPROXIMATE AND SUBJECT TO CHANGE.
13. BUILDINGS ARE SHOWN AS POTENTIAL DISPLACEMENT IF THE PROPOSED ROW PHYSICALLY INTERSECTS THE EXISTING BUILDING STRUCTURE.
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16. ALL HORIZONTAL COORDINATES ARE REFERENCED TO THE TEXAS COORDINATE SYSTEM, NORTH CENTRAL ZONE (4202), NORTH AMERICAN DATUM OF 1983 (NAD 83), 2011 ADJUSTMENT, 2010.00 EPOCH. SURFACE DISTANCES AND COORDINATES MAY BE CONVERTED TO GRID BY DIVIDING BY A COMBINED ADJUSTMENT FACTOR OF 1.000152710.
17. ALL COORDINATES AND ELEVATIONS ARE IN U.S. SURVEY FEET.
18. VERTICAL VALUES WERE DETERMINED BY THE TxDOT REAL TIME GPS NETWORK (RTN) (NAD 83 (2011, MA11, PA11) EPOCH 2010.00) WITH THE GEOID12A APPLIED.

PRELIMINARY - SUBJECT TO CHANGE

Texas Department of Transportation
DALLAS DISTRICT
COLLIN COUNTY
MOHAMED K. BUR, P.E.
DISTRICT ENGINEER
DESIGN SCHEMATIC SH 5
FROM: SOUTH OF FM 1378 TO: SOUTH OF MELISSA RD
LOCATION MAP: NTS
PUBLIC MEETING
NOVEMBER 27, 2018
Michael Baker INTERNATIONAL
1501 LBJ Freeway, Suite 650, Dallas, TX 75234
TBPE Registration No. F-2677
PLAN & PROFILE
SH 121
STA 75+00 TO STA 122+91
ROLL 11 OF 12 ROLLS
S-011

Texas Department of Transportation

DALLAS DISTRICT
COLLIN COUNTY
MOHAMED A. BUR, P.E.
DISTRICT ENGINEER

DESIGN SCHEMATIC SH 5

FROM: SOUTH OF FM 1378 TO: SOUTH OF MELISSA RD

PUBLIC MEETING
NOVEMBER 27, 2018

MAPS TO:

Michael Baker INTERNATIONAL
8400 D Westglen Blvd.
Austin, TX 78759
TBPE Registration No. F-2671

PROFILE
RAMPS AND CROSS STREETS

ROLL 12 OF 12 ROLLS

DESIGNED BY	STATE	DIST.	COUNTY	FEDERAL AID PROJECT NO.	SHEET NO.
BAKER	6	XX	XXX	XXXX	S-012
DRAWN BY	STATE	DIST.	COUNTY		
BAKER	TEXAS	DAL	COLLIN		
CHECKED BY	CONT.	SEC.	JOB	HIGHWAY NO.	
BAKER	0047	05	(5A, etc)	SH 5	

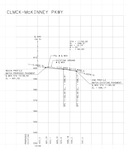
CLOLDM-OLD MILL RD (FM 546)

CLANT-ANTHONY ST

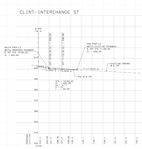
CLLOU-E LOUISIANA ST

CLVIR-E VIRGINIA ST

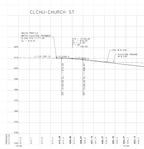
CLMCK-MCKINNEY PKWY



CLINT-INTERCHANGE ST

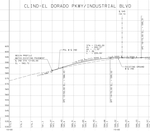


CLCHU-CHURCH ST

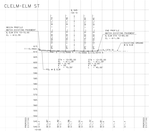


PRELIMINARY - SUBJECT TO CHANGE

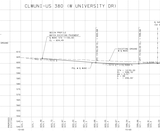
CLEND-EL DORADO PKWY/INDUSTRIAL BLVD



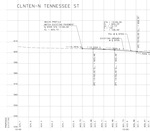
CLELM-ELM ST



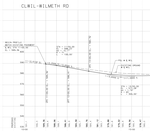
CLMUN-US 380 (W UNIVERSITY DR)



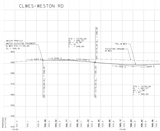
CLNTEN-N TENNESSEE ST



CLWIL-WILMETH RD



CLWES-WESTON RD



CLFAN-FANNIN RD

Texas Department of Transportation

DALLAS DISTRICT
COLLIN COUNTY
MOHAMED A. BUR, P.E.
DISTRICT ENGINEER

DESIGN SCHEMATIC SH 5

FROM: SOUTH OF FM 1378 TO: SOUTH OF MELISSA RD

PUBLIC MEETING
NOVEMBER 27, 2018

MAPS TO:

Michael Baker INTERNATIONAL
8400 D Westglen Blvd.
Austin, TX 78759
TBPE Registration No. F-2671

PROFILE
RAMPS AND CROSS STREETS

ROLL 12 OF 12 ROLLS

DESIGNED BY	STATE	DIST.	COUNTY	FEDERAL AID PROJECT NO.	SHEET NO.
BAKER	6	XX	XXX	XXXX	S-012
DRAWN BY	STATE	DIST.	COUNTY		
BAKER	TEXAS	DAL	COLLIN		
CHECKED BY	CONT.	SEC.	JOB	HIGHWAY NO.	
BAKER	0047	05	(5A, etc)	SH 5	