Texas Department of Transportation

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DALLAS DISTRICT

MOHAMED K. BUR, P.E.
DISTRICT ENGINEER

DESIGN SCHEMATIC SH 5

FROM: SOUTH OF FM 1378 TO: SOUTH OF CR 275

COLLIN COUNTY

FUNCTIONAL CLASSIFICATIONS	
URBAN PRINCIPAL ARTERIAL	SS 399 MAINLANE, SH 5 MAINLAINE, US 380 (W UNIVERSITY DR), RAMPS
URBAN MINOR ARTERIAL	FM 1378 (COUNTRY CLUB RD), FM 546 (HARRY MCKILLOP BLVD), ELDORADO 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
RURAL MAJOR COLLECTOR	SS 195 (WESTON RD)
URBAN/RURAL LOCAL	ALL OTHER STREETS

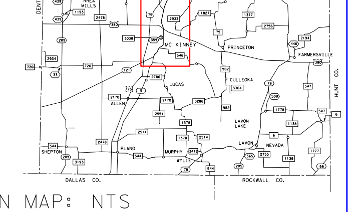
DESIGN SPEED	
60 MPH	SS 399 MAINLANE
40 MPH	SH 5 MAINLAINE, RAMPS, FM 1378 (COUNTRY CLUB RD), SPUR 399 FRONTAGE ROAD, SH 5 FRONTAGE ROAD, FM 546 (HARRY MCKILLOP BLVD), ELDORADO PKWY/INDUSTRIAL BLVD, US 380 (W UNIVERSITY DR), SS 195 (WESTON RD)
30 MPH	ALL OTHER STREETS

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

PROJECT LENGTH
7.21 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 2018
EQUATIONS: NONE
RAILROADS: NONE
DESIGN EXCEPTIONS:
DESIGN SPEED AT TWO LOCATIONS



LOCATION MAP: NTS

APRIL 3, 2020

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
4/3/2020

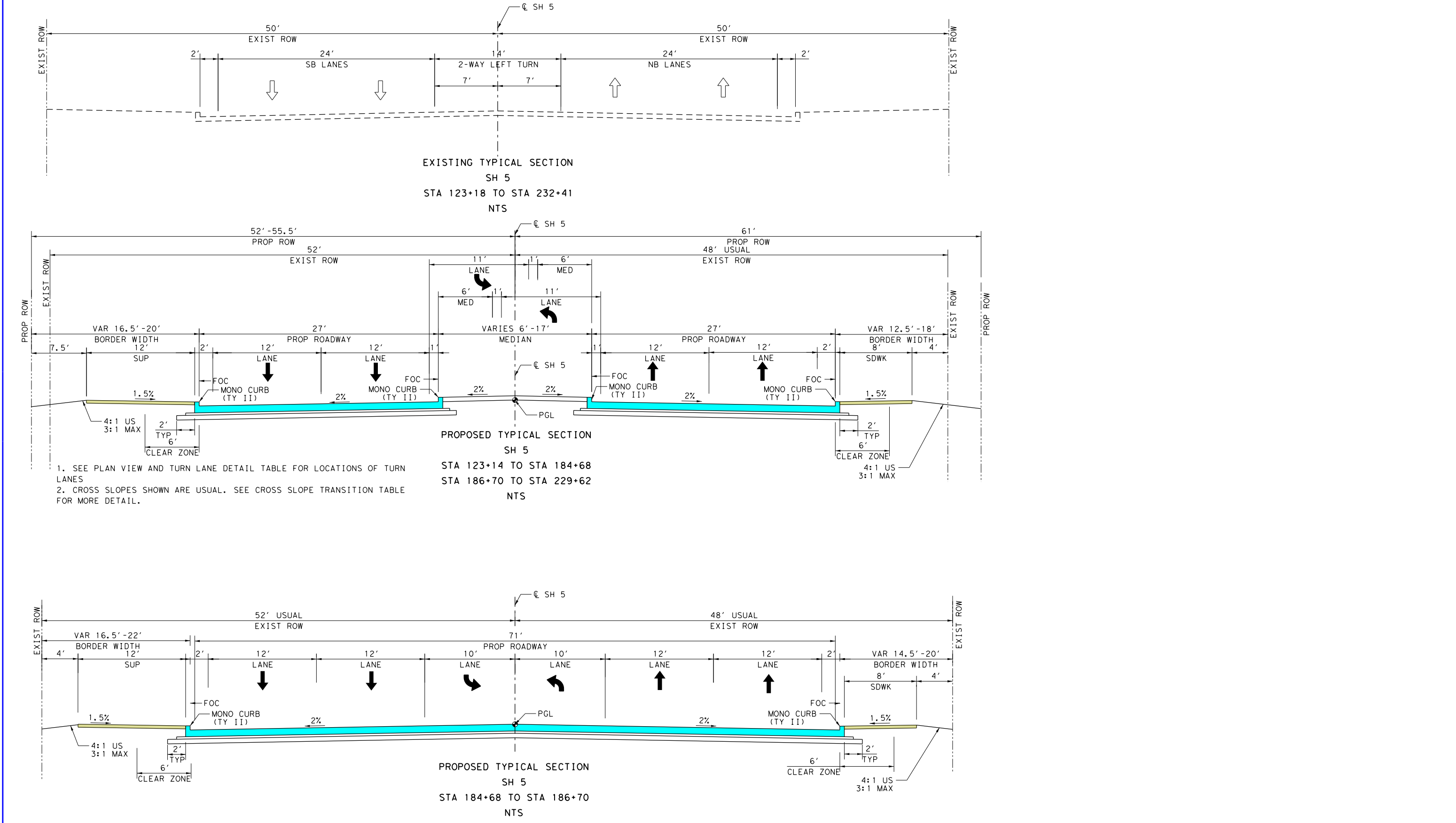
INDEX OF ROLLS
ROLL 1 OF 10 PLAN & PROFILE SH 5 STA 10+28.73 TO STA 45+00 & STA 70+33.69 TO STA 95+00
ROLL 2 OF 10 PLAN & PROFILE SH 5 STA 45+00 TO STA 70+33.69
ROLL 3 OF 10 PLAN & PROFILE SH 5 & SPUR 399 FRONTAGE ROADS
ROLL 4 OF 10 PLAN & PROFILE SH 5 STA 95+00 TO STA 150+00
ROLL 5 OF 10 PLAN & PROFILE SH 5 STA 150+00 TO STA 205+00
ROLL 6 OF 10 PLAN & PROFILE SH 5 STA 205+00 TO STA 260+00
ROLL 7 OF 10 PLAN & PROFILE SH 5 STA 260+00 TO STA 316+00
ROLL 8 OF 10 PLAN & PROFILE SH 5 STA 316+00 TO STA 369+00
ROLL 9 OF 10 PLAN & PROFILE SH 5 STA 369+00 TO STA END PROJ
ROLL 10 OF 10 PROFILE CROSS STREETS

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

PLAN & PROFILE
SH 5
STA 150+00 TO STA 205+00
ROLL 5 OF 10 ROLLS

DESIGNED BY:	FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.		ROLL NO.
BAKER	6	XX (XX) XXXX		S-005
DRAWN BY:	STATE	DIST.	COUNTY	
BAKER	TEXAS	DAL	COLLIN	
CHECKED BY:	CONT	SEC	JOB	HIGHWAY NO.
BAKER	0047	05	054, etc.	SH 5

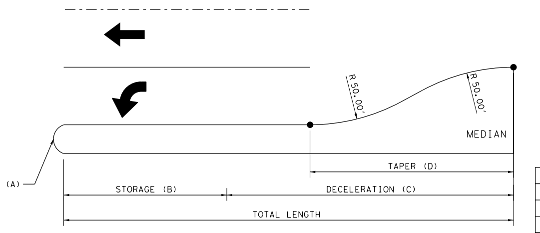
DATE: 4/3/2020
FILE: ...\5RPP00*S105.dgn
ROLLPLOT - V8i*BAKER*WIN*CO*PDF.pltcfg
TIME: 11:39:40 PM
PEN TABLE - SH5*TxDOT*McKinney*Schematic.tbl



1. SEE PLAN VIEW AND TURN LANE ... LANES
2. CROSS SLOPES SHOWN ARE USUAL ... FOR MORE DETAIL.

TURN LANE DETAIL TABLE

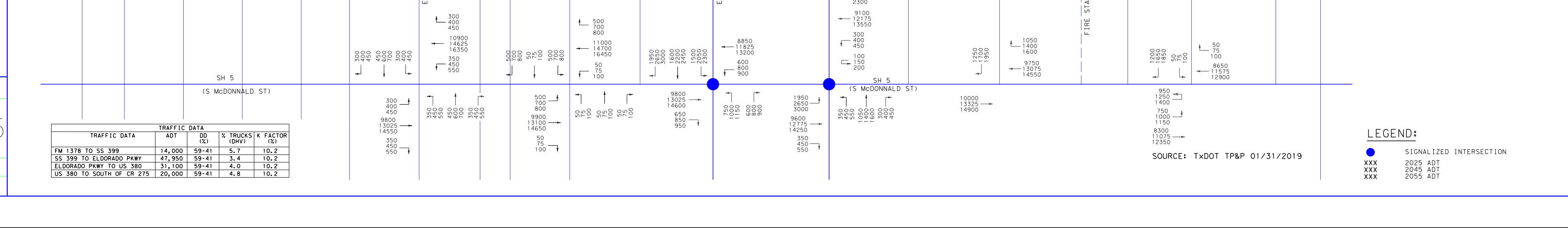
CROSS STREET	MEDIAN NOSE STA @ SH 5	MEDIAN NOSE RADIUS (FT) (A)	STORAGE (FT) (B)	DECELERATION (FT) (C)	TAPER (FT) (D)	TOTAL LENGTH (FT)	L/R	SB/NB
JEFFERSON ST	150+85.24	3	40	160	50	200	L	NB
JEFFERSON ST	151+45.24	3	100	160	50	260	L	SB
CHRISTIAN ST	158+87.41	3	100	160	50	260	L	NB
CHRISTIAN ST	159+47.41	3	100	160	50	260	L	SB
E STANDIFER ST	168+04.68	3	100	160	50	260	L	NB
E STANDIFER ST	168+56.58	3	60	160	50	220	L	SB
ANTHONY ST	172+37.30	3	40	160	50	200	L	NB
ANTHONY ST	172+97.32	3	100	160	60	260	L	SB
E DAVIS ST	179+36.55	3	100	160	50	260	L	NB
E DAVIS ST	179+96.55	3	100	160	50	260	L	SB
E HUNT ST	191+50.61	3	40	160	50	200	L	NB
E LAMAR ST	196+13.30	3	40	160	50	200	L	NB



TURN LANE DETAIL

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	CLSH5-10	168+37.70	2,546,122.77	7,123,195.03	1,143.92'	7° 00' 00.00" RT	139.76'	69.96'	167+67.74	169+07.49
℄ SH5	CLSH5-11	172+66.51	2,546,210.44	7,123,614.96	1,147.92'	10° 10' 00.00" LT	203.69'	102.11'	171+64.39	173+68.08
℄ SH5	CLSH5-12	185+47.51	2,546,246.78	7,124,895.99	1,143.92'	9° 53' 00.00" RT	197.32'	98.91'	184+48.61	186+45.93
℄ SH5	CLSH5-13	190+75.85	2,546,352.29	7,125,414.18	1,147.92'	10° 54' 00.00" LT	218.38'	109.52'	189+66.33	191+84.71
℄ CLO	CLCLO-1	10+44.53	2,545,994.27	7,124,541.46	1,500.00'	2° 30' 46.48" RT	65.79'	32.90'	10+11.63	10+77.42
℄ WAL	CLWAL-1	12+83.72	2,546,207.20	7,122,926.43	2,000.00'	1° 53' 34.22" LT	66.07'	33.04'	12+50.68	13+16.75
℄ LOG	CLLOG-1	11+20.07	2,546,055.70	7,125,747.46	2,500.00'	0° 30' 18.22" RT	22.04'	11.02'	11+09.05	11+31.09
℄ LAM	CLLAM-1	13+24.35	2,546,245.53	7,125,981.74	2,500.00'	1° 12' 39.48" RT	52.84'	26.42'	12+97.93	13+50.77
℄ WALK	CLWALK-1	11+77.49	2,546,088.96	7,126,208.71	2,500.00'	1° 07' 39.01" RT	49.20'	24.60'	11+52.89	12+02.09



TRAFFIC DATA	ADT	DD (%)	% TRUCKS (DHV)	K FACTOR (%)
FM 1378 TO SS 399	14,000	59-41	5.7	10.2
SS 399 TO ELDORADO PKWY	47,950	59-41	3.4	10.2
ELDORADO PKWY TO US 380	31,100	59-41	4.0	10.2
US 380 TO SOUTH OF CR 275	20,000	59-41	4.8	10.2

LEGEND:
SIGNALIZED INTERSECTION
2025 ADT
2045 ADT
2055 ADT

PROPERTY OWNERS

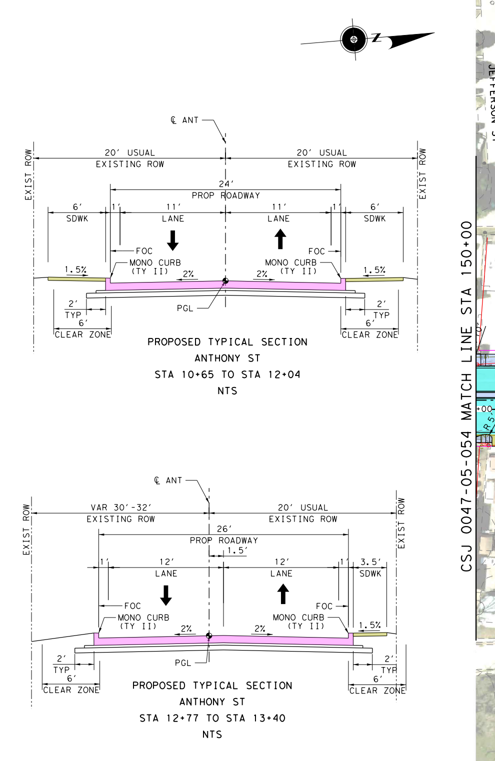
SOURCE:
COLLIN COUNTY APPRAISAL DISTRICT
JULY 2019

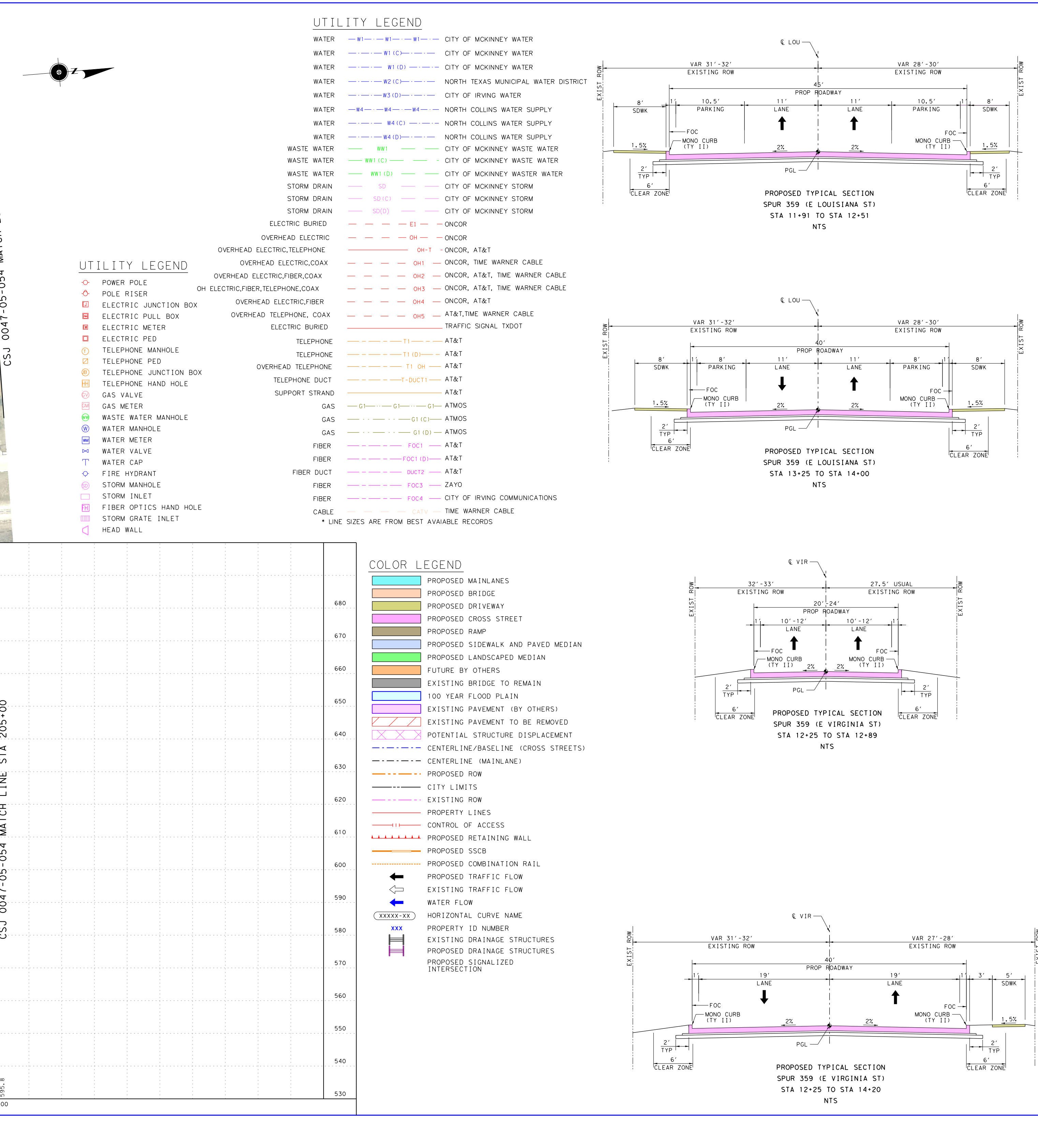
ID#	SITE ADDRESS	OWNER	BUSINESS NAME
88	1001 S MCDONALD ST	RVKG LLC	BAKERS DRIVE IN
89	1000 S MCDONALD ST	RAMAN M PATEL	HANDY MART
90	915 S MCDONALD ST	EDWARD C MOUNGER	SPORTSMAN GLASS
91	914 S MCDONALD ST	SHELLEY CHAPMAN	
92	911 S MCDONALD ST	EDWARD C MOUNGER	JOSHS COLLISION REPAIR
93	911 S MCDONALD ST	EDWARD C MOUNGER	JOSHS COLLISION REPAIR
94	906 S MCDONALD ST	FERNANDO CAMARILLO & CAMPOS	
95	903 S MCDONALD ST	ALVARADO ARNULFO	ARNOLD'S
96	902 S MCDONALD ST	TAEK T RA	902 MCDONALD RETAIL
97	901 S MCDONALD ST	H & B PARTNERS LLC	MCKINNEY AUTO SALES
98	900 S MCDONALD ST	BLJ REAL ESTATE LLC	FIESTA AUTO SALES
99	811 S MCDONALD ST	SIMON SERENO	INCOME TAX SERVICE
100	812 S MCDONALD ST	BRIAN S SHAFFER	TC SNOWCONE
101	809 S MCDONALD ST	LINDA SUE SWEENEY ETAL	
102	806 WILCOX ST	EARL & LINDA B CRAWFORD	
103	800 S MCDONALD ST	BRIAN S SHAFFER	MCKINNEY JEWELRY AND LOAN
104	400 CHRISTIAN ST	EARL & LINDA B CRAWFORD	
105	707 CHESTNUT ST	DELTA ELM INVESTMENT GROUP LLC	
106	707 N MCDONALD ST	TARA 1 VILLAGE LLC	
107	705 S CHESTNUT ST	DELTA ELM INVESTMENT GROUP LLC	
108	MCDONALD ST	JOSE CARLOS COLMENERO & REBECCA ANN	
109	702 S MCDONALD ST	DELTA ELM INVESTMENT GROUP LLC	
110	701 S CHESTNUT ST	ARMANDO & CONSUELO LOERA	
111	S MCDONALD ST	JOSE CARLOS COLMENERO & REBECCA ANN	
112	701 S MCDONALD ST	ARMANDO ORBEGOSO	BOX BROS AUTO SALES
113	600 MCDONALD ST	FULL GOSPEL HOLY TEMPLE INC	FULL GOSPEL HOLY TEMPLE
114	403 SHORT ST	ANTONIO SANTANA & TERESA GUERRERO	EL PRIMO TAQUERIA
115	511 S CHESTNUT ST	DELTA ELM INVESTMENT GROUP LLC	
116	512 WILCOX ST	KATHERINE LUNA	
117	507 S CHESTNUT ST	DELTA ELM INVESTMENT GROUP LLC	
118	507 S MCDONALD ST	MAGDALENE KAEMPF PAMPALLONA	
119	505 S CHESTNUT ST	ALMA RUTH & ERNESTO Z JASSO	
120	506 WILCOX ST	NEW OUTREACH CHURCH OF MCKINNEY	OUT REACH CHURCH OF GOD
121	502 S MCDONALD ST	JOHN YOUNG	DE BI CA CARIAS TIRE SHOP
122	501 S MCDONALD ST	IDLEFONSO GUTIERREZ	ALLIED BONDING
123	413 S CHESTNUT ST	NOE BENAVIDEZ PADRON	
124	410 S MCDONALD ST	INTERCAMBIO REALTY LLC	YA Z MINS/INTERCAMBIO
125	409 S MCDONALD ST	LBS HOLDINGS LLC	CHICKEN EXPRESS
126	405 S CHESTNUT ST	HERITAGE GUILD OF COLLIN COUNTY	HERITAGE GUILD OF COLLIN COUNTY
127	302 ANTHONY ST	HERITAGE GUILD OF COLLIN	HERITAGE GUILD OF COLLIN CO
128	315 S CHESTNUT ST	HERITAGE GUILD OF COLLIN COUNTY	HERITAGE GUILD OF COLLIN COUNTY
129	307 S MCDONALD ST	TOMMY & BRENDA EUBANKS	
130	301 S MCDONALD ST	IVEFERR INVESTMENTS LP	
131	300 E DAVIS ST	PLAYFUL BUILDING ONE LLC	PLAYFUL CORP
132	205 S MCDONALD ST	CHARLES O MONROE	DELTA BAIL BONDS
133	203 S MCDONALD ST	HUNTINGTON SERIES	COLLIN SQUARE
134	S CHESTNUT ST	CITY OF MCKINNEY	WATER TOWER
135	MCDONALD ST	CITY OF MCKINNEY	
136	103 S MCDONALD ST	JENNIFER LEE NAM	SHELL
137	E CLOYD ST	CITY OF MCKINNEY	
137A	316 E LOUISIANA ST	AURORA FRANCO	
138	335 E LOUISIANA ST	INTERMCKINNEY LLC	ADELPHOI
139	108 N MCDONALD ST	BANJO VENTURES LTD	ACTION INSURANCE
140	101 N MCDONALD ST	SHWU YING WANG	101 N. MCDONALD ST RETAIL STRIP
141	201 N MCDONALD ST	DORSA PROPERTIES LLC	BEST PRICE AUTO GROUP
142	200 N MCDONALD ST	DUNLAP GROUP DEVELOPMENT LLC	SOLO AUTO GROUP
143	211 N MCDONALD ST	ROBERT L & THOMASON	THOMASON TIRE INC
144	215 N MCDONALD ST	RONNIE D & THOMASON	
145	301 N MCDONALD ST	CITY OF MCKINNEY	MCKINNEY FIRE STATION #1
146	341 E VIRGINIA ST	DUNLAP GROUP DEVELOPMENT LLC	COLLIN COUNTY FENCE SUPPLY/COLLIN COUNTY STEEL &
147	315 N MCDONALD ST	SELF STORAGE UNITS LLC	MCKINNEY MINI-STORAGE / THE RED BEER BARN
148	400 N MCDONALD ST	AZAM MIRBAGHERY	
149	405 N MCDONALD ST	PHIL YOUNG PROPERTIES LLC	405 N MCDONALD ST
150	402 N MCDONALD ST	KEIKAVOUS KAZEMI	
151	501 N MCDONALD ST	JOHN SR WILES	
152	503 N MCDONALD ST	MADELYN A JOHNSON BOYKIN	
153	MCDONALD ST	ST JAMES CME CHURCH TRUSTEES	VACANT
154	505 N MCDONALD ST	ST JAMES CME CHURCH TRUSTEES	
155	507 N MCDONALD ST	ST JAMES CME CHRISTIAN METHODIST EPISCOPAL	
156	316 WATT ST	ST JAMES CME METHODIST CHURCH	ST JAMES METHODIST CHURCH
157	520 N MCDONALD ST	WALDO A & LEE R TURNER	GRANNYS HOUSE OF STYLE
158	315 WATT ST	EDNA Y SALCEDO	
159	600 N MCDONALD ST	LARRY L BAILEY & J D CASEROTTI	INSURANCE SERVICES
160	N MCDONALD ST	LARRY L BAILEY &	

COLOR LEGEND
PROPOSED MAINLANES
PROPOSED BRIDGE
PROPOSED DRIVEWAY
PROPOSED CROSS STREETS
PROPOSED RAMP
PROPOSED SIDEWALK
PROPOSED LANDSCAPE
FUTURE BY OTHERS
EXISTING BRIDGE TO ...
100 YEAR FLOOD PLAIN
EXISTING PAVEMENT ...
EXISTING PAVEMENT ...
POTENTIAL STRUCTURE ...
CENTERLINE/BASELINE
CENTERLINE (MAINLANE)
PROPOSED ROW
CITY LIMITS
EXISTING ROW
PROPERTY LINES
CONTROL OF ACCESS
PROPOSED RETAINING ...
PROPOSED SSCB
PROPOSED COMBINATION ...
PROPOSED TRAFFIC ...
EXISTING TRAFFIC ...
WATER FLOW
HORIZONTAL CURVE ...
PROPERTY ID NUMBER
EXISTING DRAINAGE ...
PROPOSED DRAINAGE ...
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.
19. DRIVEWAYS ARE SHOWN FOR ILLUSTRATIVE PURPOSES ONLY AND ARE SUBJECT TO REVIEW, ADJUSTMENT AND/OR CONSOLIDATION BASED ON CORRIDOR ACCESS MANAGEMENT.





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