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
0 10 20 30 40
VERT. SCALE IN FEET

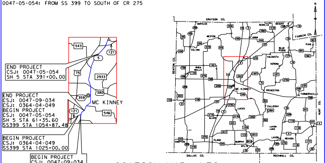
PROJECT LENGTH

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


END PROJECT
CSJ: 0047-05-054
SH 5 STA 391+00.00
END PROJECT
CSJ: 0047-09-034
CSJ: 0364-04-049
BEGIN PROJECT
CSJ: 0047-05-054
SH 5 STA 61+35.60
SS399 STA 1054+87.48
BEGIN PROJECT
CSJ: 0364-04-049
SS399 STA 1025+00.00
BEGIN PROJECT
CSJ: 0047-09-034
SH 5 STA 10+28.73
543
121
5
75
2933
380
359
MC KINNEY
546
GRAYSON CO.
FANNIN CO.
DENTON CO.
HUNT CO.
DALLAS CO.
ROCKWALL CO.
N

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

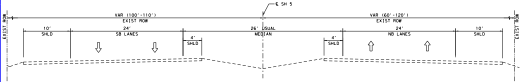
SH 5

STA 95+00 TO STA 150+00

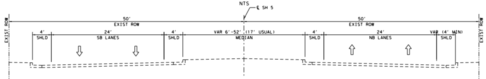
ROLL 4 OF 10 ROLLS

DESIGNED BY:	FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.		ROLL NO.
BAKER	6	XX (XX) XXXX		S-004
DRAWN BY:	STATE	DIST.	COUNTY	
BAKER	TEXAS	DAL	COLLIN	
CHECKED BY:	CONT	SEC	JOB	HIGHWAY NO.
BAKER	0047	05	054, etc.	SH 5

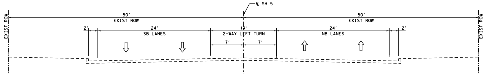
TIME: 11:38:19 PM
PEN TABLE - SH5•TxDOT•McKinney•Schematic.tbl
DATE: 4/3/2020
FILE: ...\SRPP00•S104.dgn
ROLLPLOT - V8i•BAKER•WIN•CO•PDF.pltcfg


℄ SH 5
EXIST ROW
VAR (100'-110')
EXIST ROW
VAR (60'-120')
EXIST ROW
10'
SHLD
24'
SB LANES
4'
SHLD
26' USUAL
MEDIAN
4'
SHLD
24'
NB LANES
10'
SHLD

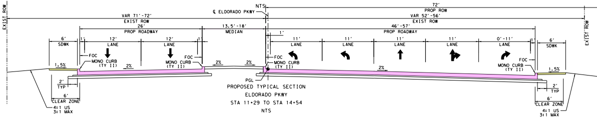
EXISTING TYPICAL SECTION
SH 5
STA 95+00 TO STA 107+00
NTS


℄ SH 5
EXIST ROW
50'
EXIST ROW
50'
EXIST ROW
4'
SHLD
24'
SB LANES
4'
SHLD
VAR 6'-52' (17' USUAL)
MEDIAN
4'
SHLD
24'
NB LANES
VAR (4' MIN)
SHLD

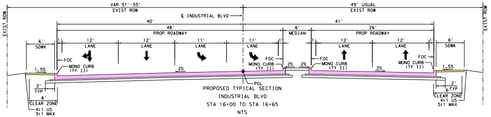
EXISTING TYPICAL SECTION
SH 5
STA 107+00 TO 123+18
NTS


℄ SH 5
EXIST ROW
50'
EXIST ROW
50'
EXIST ROW
2'
24'
SB LANES
14'
2-WAY LEFT TURN
7'
7'
24'
NB LANES
2'

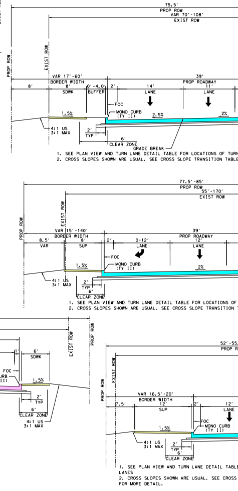
EXISTING TYPICAL SECTION
SH 5
STA 123+18 TO STA 232+41
NTS

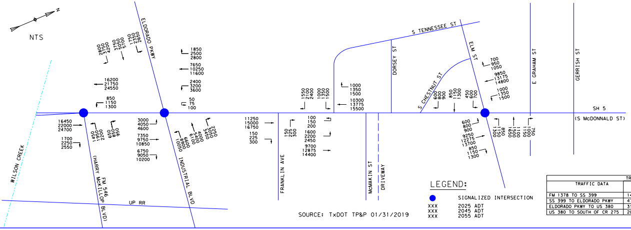

℄ ELDORADO PKWY
EXIST ROW
VAR 71'-72'
EXIST ROW
26'
PROP ROADWAY
13.5'-18'
MEDIAN
72'
PROP ROW
VAR 52'-56'
EXIST ROW
46'-57'
PROP ROADWAY
EXIST ROW
PROP ROW
6'
SDWK
1'
12'
LANE
12'
LANE
1'
1'
11'
LANE
11'
LANE
11'
LANE
11'
LANE
0'-11'
LANE
1'
6'
SDWK
FOC
MONO CURB
(TY II)
FOC
MONO CURB
(TY II)
FOC
MONO CURB
(TY II)
FOC
MONO CURB
(TY II)
1.5%
2%
2%
2%
2%
1.5%
PGL
2'
TYP
6'
CLEAR ZONE
4:1 US
3:1 MAX
2'
TYP
6'
CLEAR ZONE
4:1 US
3:1 MAX

PROPOSED TYPICAL SECTION
ELDORADO PKWY
STA 11+29 TO STA 14+54
NTS


EXIST ROW
VAR 51'-55'
EXIST ROW
℄ INDUSTRIAL BLVD
49' USUAL
EXIST ROW
EXIST ROW
40'
48'
PROP ROADWAY
6'
MEDIAN
41'
26'
PROP ROADWAY
6'
SDWK
1'
12'
LANE
12'
LANE
11'
LANE
11'
LANE
1'
12'
LANE
12'
LANE
1'
6'
SDWK
FOC
MONO CURB
(TY II)
FOC
MONO CURB
(TY II)
FOC
MONO CURB
(TY II)
FOC
MONO CURB
(TY II)
1.5%
2%
2%
2%
2%
1.5%
PGL
2'
TYP
6'
CLEAR ZONE
4:1 US
3:1 MAX
2'
6' TYP
CLEAR ZONE
4:1 US
3:1 MAX

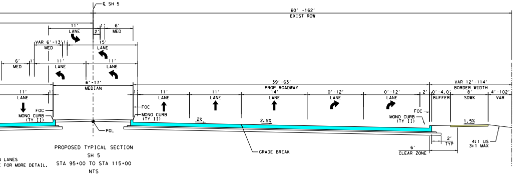
PROPOSED TYPICAL SECTION
INDUSTRIAL BLVD
STA 16+00 TO STA 16+65
NTS


EXIST ROW
75.5'
PROP ROW
VAR 70'-108'
EXIST ROW
PROP ROW
EXIST ROW
VAR 17'-60'
BORDER WIDTH
39'
PROP ROADWAY
8'
8'
SDWK
0'-4.0'
BUFFER
2'
14'
LANE
11'
LANE
FOC
MONO CURB
(TY II)
1.5%
2.5%
2%
4:1 US
3:1 MAX
2'
TYP
6'
CLEAR ZONE
GRADE BREAK
1. SEE PLAN VIEW AND TURN LANE DETAIL TABLE FOR LOCATIONS OF TURN
2. CROSS SLOPES SHOWN ARE USUAL. SEE CROSS SLOPE TRANSITION TABLE
77.5'-85'
PROP ROW
55'-170'
EXIST ROW
EXIST ROW
PROP ROW
EXIST ROW
VAR 15'-140'
BORDER WIDTH
39'
PROP ROADWAY
8.5'
VAR
8'
SUP
2'
0-12'
LANE
12'
LANE
FOC
MONO CURB
(TY II)
1.5%
2%
4:1 US
3:1 MAX
2'
TYP
6'
CLEAR ZONE
1. SEE PLAN VIEW AND TURN LANE DETAIL TABLE FOR LOCATIONS OF
2. CROSS SLOPES SHOWN ARE USUAL. SEE CROSS SLOPE TRANSITION
52'-55.
PROP R
PROP ROW
EXIST ROW
VAR 16.5'-20'
BORDER WIDTH
7.5'
12'
SUP
2'
12'
LANE
FOC
MONO CURB
(TY II)
1.5%
4:1 US
3:1 MAX
2'
TYP
6'
CLEAR ZONE
1. SEE PLAN VIEW AND TURN LANE DETAIL TABLE
LANES
2. CROSS SLOPES SHOWN ARE USUAL. SEE CROSS
FOR MORE DETAIL.

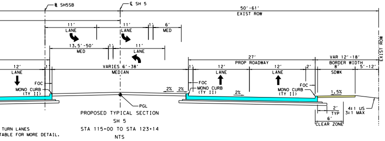

N
NTS
WILSON CREEK
ELDORADO PKWY
(HARRY MCKILLOP BLVD) FM 546
INDUSTRIAL BLVD
UP RR
FRANKLIN AVE
McMAKIN ST
DRIVEWAY
DORSEY ST
S TENNESSEE ST
S CHESTNUT ST
ELM ST
E GRAHAM ST
GERRISH ST
SH 5
(S McDONNALD ST)
1850
2500
2800
7650
10250
11600
2400
3200
3600
50
75
100
16200
21750
24550
850
1150
1300
16450
22000
24700
1700
2250
2550
3000
4050
4600
7350
9750
10850
6750
9050
10200
11250
15000
16750
150
225
300
1000
1350
1500
10300
13775
15500
100
150
200
1600
2200
2450
9700
12875
14400
700
950
1050
9850
13175
14800
1000
1350
1500
600
800
900
9250
12275
13700
850
1150
1300
LEGEND:
SIGNALIZED INTERSECTION
XXX 2025 ADT
XXX 2045 ADT
XXX 2055 ADT

SOURCE: TxDOT TP&P 01/31/2019

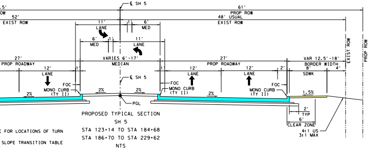
TRAFFIC DATA	ADT	DD (%)	% TRUCKS (DHV)	K FACTOR (%)
FM 1378 TO SS 399	14,000	59-41	5.7	10.2
SS 399 TO ELDORADO PKWY	47,950	59-41	3.4	10.2
ELDORADO PKWY TO US 380	31,100	59-41	4.0	10.2
US 380 TO SOUTH OF CR 275	20,000	59-41	4.8	10.2


℄ SH 5
60' -162'
EXIST ROW
11' LANE
2'
1'
6' MED
VAR 6'-13'
MED
15' LANE
6' MED
11' LANE
11' LANE
6'-17' MEDIAN
39'-63' PROP ROADWAY
VAR 12'-114' BORDER WIDTH
EXIST ROW
11' LANE
11' LANE
11' LANE
14' LANE
0'-12' LANE
0'-12' LANE
2'
0'-4.0' BUFFER
8' SDWK
4'-102' VAR
FOC
MONO CURB (TY II)
FOC
MONO CURB (TY II)
FOC
MONO CURB (TY II)
2%
2.5%
1.5%
PGL
GRADE BREAK
2' TYP
6' CLEAR ZONE
4:1 US
3:1 MAX
LANES
FOR MORE DETAIL.

PROPOSED TYPICAL SECTION
SH 5
STA 95+00 TO STA 115+00
NTS


℄ SH5SB
℄ SH 5
50'-61'
EXIST ROW
11' LANE
11' LANE
1'
6' MED
13.5'-50' MED
11' LANE
VARIES 6'-38' MEDIAN
27' PROP ROADWAY
VAR 12'-18' BORDER WIDTH
EXIST ROW
12' LANE
12' LANE
12' LANE
2'
8' SDWK
5'-12'
FOC
MONO CURB (TY II)
FOC
MONO CURB (TY II)
FOC
MONO CURB (TY II)
2%
2%
2%
1.5%
PGL
2' TYP
6' CLEAR ZONE
4:1 US
3:1 MAX
TURN LANES
TABLE FOR MORE DETAIL.

PROPOSED TYPICAL SECTION
SH 5
STA 115+00 TO STA 123+14
NTS


℄ SH 5
61'
PROP ROW
48' USUAL
EXIST ROW
5'
OW
52'
EXIST ROW
11' LANE
6' MED
6' MED
11' LANE
VARIES 6'-17' MEDIAN
27' PROP ROADWAY
27' PROP ROADWAY
VAR 12.5'-18' BORDER WIDTH
EXIST ROW
PROP ROW
12' LANE
12' LANE
12' LANE
2'
8' SDWK
4'
℄ SH 5
FOC
MONO CURB (TY II)
FOC
MONO CURB (TY II)
FOC
MONO CURB (TY II)
2%
2%
2%
2%
1.5%
PGL
2' TYP
6' CLEAR ZONE
4:1 US
3:1 MAX
FOR LOCATIONS OF TURN
SLOPE TRANSITION TABLE

PROPOSED TYPICAL SECTION
SH 5
STA 123+14 TO STA 184+68
STA 186+70 TO STA 229+62
NTS

PROPERTY OWNERS

SOURCE:
COLLIN COUNTY APPRAISAL DISTRICT
JULY 2019

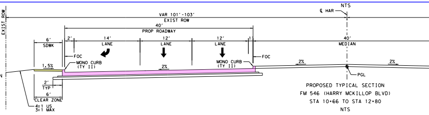
ID#	SITE ADDRESS	OWNER	BUSINESS NAME
38	STATE HWY 5 (S MCDONALD)	LHOIST NORTH AMERICA OF TEXAS LTD	
39	STATE HWY 5	CITY OF MCKINNEY	
40	1820 S MCDONALD ST	SSCP MCDONALD ST LLC	EXTRA SPACE STORAGE
41	1800 S MCDONALD ST	SSCP MCDONALD ST LLC	EXTRA SPACE STORAGE
42	MCDONALD ST S	COLLIN-HIGHWAY 5 LP	
43	S MCDONALD ST	PECAN GROVE CEMETERY	PECAN GROVE CEMETERY
44	1712 S MCDONALD ST	AIRGAS USA LLC	AIRGAS
45	1700 S MCDONALD ST	SHEHATA SAID & SORAYA	QUIKTRIP
46	1608 S MCDONALD ST	RACETRAC PETROLEUM	RACETRAC
47	101 INDUSTRIAL BLVD	NAYEB HOLDING INC	SHELL
48	1605 S MCDONALD ST	NAYEB HOLDING INC	
49	1601 S MCDONALD ST	CMK FOOD LLC	A & D BUFFALOS
50	1516 S TENNESSEE ST	ASLAM REAL ESTATE LLC	JACK IN THE BOX
51	1514 S TENNESSEE ST	ASLAM REAL ESTATE LLC	
51A	1424 S TENNESSEE ST	LAFON RICKIE F & JAN F	
51B	1422 S TENNESSEE ST	TEMPLO DE ALABANZA EBEN-EZER	
51C	1412 S TENNESSEE ST	JOSE L RODRIGUEZ	
51D	1406 S TENNESSEE ST	1 PARK LLC	
52	201 FRANKLIN AVE	DANIEL SANCHEZ	
53	1515 S MCDONALD ST	CHUN H LAM	AIRPORT PARK
54	1600 S MCDONALD ST	HISE REAL ESTATE INVESTMENTS LP	AUTO ECLIPSE
55	1516 S MCDONALD ST	ANNA KATHRYN & T J LANE & JAMES	FIRST CHOICE MUFFLER SHOP
56	1500 S MCDONALD ST	ANNA KATHRYN & T J LANE & JAMES	FIRST CHOICE AUTO & TIRES
57	1513 S MCDONALD ST	DASHANG MOTORS LLC	
58	1450 AMSCOTT ST MCKINNEY	CITY OF MCKINNEY HOUSING AUTHORITY	
58A	1513 S TENNESSEE ST	JMS INVESTMENTS LLC	
59	1450 S MCDONALD ST	THOMAS M & NANETTE K HUDGENS	ECONOMY TRANSMISSION
60	1503 S MCDONALD ST	KHAN RAFIQ	5 STAR MOTORS
61	1420 S MCDONALD ST	BACHMAN PLACE LLC	DOLLAR GENERAL
61A	DORSEY AVE	MICHAEL MCCORMACK	
61B	125 DORSEY AVE	JOSE M ROBLES SILVA	
61C	123 DORSEY AVE	RAFAEL & ELIZONDO	
61D	121 DORSEY AVE	RAFAEL & ELIZONDO	MCKINNEY ARIAS SERVICE
62	MCKINNEY, TX 75069	RAFAEL ELIZONDON &	
63	1408 S CHESTNUT ST	ELWISS W SOLDEVILA	VACANT
63A	1404 S CHESTNUT ST	FRANCISCO SIFUENTES	
63B	1402 S CHESTNUT ST	LEONCIO & AMY JOY HERNANDEZ	
63C	1310 S CHESTNUT ST	ABEL & ROSALBA VEGA	
63D	1308B S CHESTNUT ST	JOSE & DELORES TORRES	
64	S MCDONALD ST	GRID ENTERPRISES INC	
65	1415 S MCDONALD ST	GRID ENTERPRISES INC	MEGA MOW
66	1301 S MCDONALD ST	COTTON MILL PARTNERS LTD	
67	1308 S MCDONALD ST	USA MOTORPLEX INC	TOVI MOTORS
68	1304 S MCDONALD ST	WHAT'S BUGGIN YOU PEST CONTROL INC	TEXAS CAR TITLE
69	1300 S MCDONALD ST	RAFIQ KHAN	VAPORS N MORE
70	1301 S MCDONALD ST	COTTON MILL PARTNERS LTD	

COLOR LEGEND

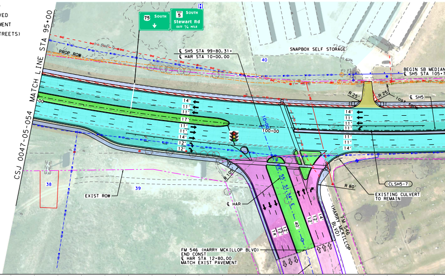
🟦	PROPOSED MAINLANES
🟧	PROPOSED BRIDGE
🟨	PROPOSED DRIVEWAY
🟪	PROPOSED CROSS STREET
🟫	PROPOSED RAMP
🟦	PROPOSED SIDEWALK AND PAVED MEDIAN
🟩	PROPOSED LANDSCAPED MEDIAN
🟧	FUTURE BY OTHERS
⬛	EXISTING BRIDGE TO REMAIN
▭	100 YEAR FLOOD PLAIN
🟪	EXISTING PAVEMENT (BY OTHERS)
▨	EXISTING PAVEMENT TO BE REMOVED
☒	POTENTIAL STRUCTURE DISPLACEMENT
-·-·-	CENTERLINE/BASELINE (CROSS STREETS)
-·-·-	CENTERLINE (MAINLANE)
-··-	PROPOSED ROW
—-—	CITY LIMITS
-··-	EXISTING ROW
——	PROPERTY LINES
—‖—	CONTROL OF ACCESS
┴┴┴	PROPOSED RETAINING WALL
═	PROPOSED SSCB
- - -	PROPOSED COMBINATION RAIL
←	PROPOSED TRAFFIC FLOW
⇦	EXISTING TRAFFIC FLOW
←	WATER FLOW
XXXXX-XX	HORIZONTAL CURVE NAME
XXX	PROPERTY ID NUMBER
╪	EXISTING DRAINAGE STRUCTURES
╪	PROPOSED DRAINAGE STRUCTURES

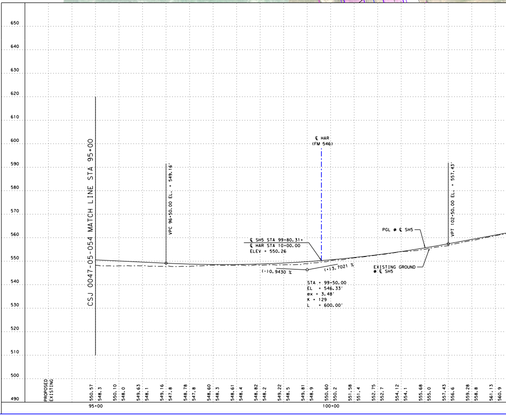
COORDINATION WITH LOCAL GOVERNMENT. FINAL LOCATION OF MEDIAN OPENINGS WILL BE DETERMINED IN THE PS&E DEVELOPMENT PHASE IN COORDINATION WITH THE LOCAL GOVERNMENT.

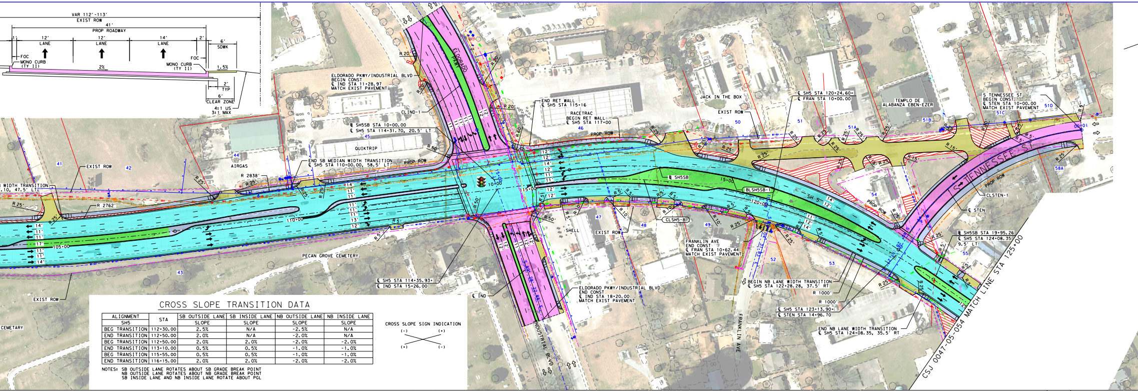
3. SUPERELEVATION AXIS OF ROTATION IS ABOUT THE PGL UNLESS OTHERWISE NOTED.
4. APPROXIMATE 100 YEAR FLOODPLAIN LIMITS ARE BASED UPON FEMA FLOOD INSURANCE RATE MAP 48085C020J (REV JUNE 7, 2017) AND 48085C0290J (REV JUNE 2, 20009) FOR WILSON CREEK, 48085C0165J (REV JUNE 2, 2009) AND 48085C0280J (REV JUNE 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.


NTS
℄ HAR
EXIST ROW
VAR 101'-103'
EXIST ROW
40'
PROP ROADWAY
6' SDWK
2'
14' LANE
12' LANE
12' LANE
1'
40' MEDIAN
FOC
MONO CURB (TY II)
MONO CURB (TY II)
FOC
1.5%
2%
2%
2%
PGL
2' TYP
6' CLEAR ZONE
4:1 US
3:1 MAX

PROPOSED TYPICAL SECTION
FM 546 (HARRY MCKILLOP BLVD)
STA 10+66 TO STA 12+80
NTS


CSJ 0047-05-054 MATCH LINE STA 95+00
75 South
5 South Stewart Rd EXIT ¼ MILE
PROP ROW
℄ SH5 STA 99+80.31=
℄ HAR STA 10+00.00
SNAPBOX SELF STORAGE
BEGIN SB MEDIAN
℄ SH5 STA 105+
40
℄ SH5
R 25'
R 25'
14'
11'
11'
17'
11'
11'
14'
12'
12'
10+00
100+00
R 105'
R 80'
CLSH5-7
EXISTING CULVERT TO REMAIN
EXIST ROW
38
39
℄ HAR
40'
FM 546 (HARRY MCKILLOP BLVD)
FM 546 (HARRY MCKILLOP BLVD) END CONST
℄ HAR STA 12+80.00
MATCH EXIST PAVEMENT




VAR 112'-113'
EXIST ROW
41'
PROP ROADWAY
1'
12'
LANE
12'
LANE
14'
LANE
2'
6'
SDWK
FOC
MONO CURB
(TY II)
2%
FOC
MONO CURB
(TY II)
1.5%
2'
TYP
6'
CLEAR ZONE
4:1 US
3:1 MAX
ELDORADO PKWY/INDUSTRIAL BLVD
BEGIN CONST
℄ IND STA 11+28.97
MATCH EXIST PAVEMENT
ELDORADO PKWY
CLIND-1
℄ SH5SB STA 10+00.00
℄ SH5 STA 114+31.70, 20.5' LT
QUIKTRIP
AIRGAS
END SB MEDIAN WIDTH TRANSITION
℄ SH5 STA 110+00.00, 58.5' LT
PROP ROW
EXIST ROW
WIDTH TRANSITION
.10, 47.5' LT
R 2838'
R 2762'
R 25'
R 20'
R 60'
R 50'
R 5'
R 10'
R 15'
41
42
43
44
45
46
47
48
49
50
51
51A
51B
51C
51D
52
53
54
55
58A
105+00
110+00
115+00
120+00
10+00
15+00
14'
11'
17'
12'
13'
PECAN GROVE CEMETERY
CEMETARY
EXIST ROW
℄ SH5 STA 114+35.93=
℄ IND STA 15+26.00
℄ IND
INDUSTRIAL BLVD
S 89° 28' 22.88" E
END RET WALL
℄ SH5 STA 115+16
RACETRAC
BEGIN RET WALL
℄ SH5 STA 117+00
PROP ROW
SHELL
EXIST ROW
JACK IN THE BOX
EXIST ROW
℄ SH5 STA 120+24.60=
℄ FRAN STA 10+00.00
TEMPLO DE
ALABANZA EBEN-EZER
S TENNESSEE ST
BEGIN CONST
℄ STEN STA 10+00.00
MATCH EXIST PAVEMENT
00+01
℄ SH5SB
BLSH5SB-1
CLSH5-8
SH 5
S TENNESSEE ST
PROP ROW
CLSTEN-1
℄ STEN
FRANKLIN AVE
END CONST
℄ FRAN STA 10+62.44
MATCH EXIST PAVEMENT
FRANKLIN AVE
ELDORADO PKWY/INDUSTRIAL BLVD
END CONST
℄ IND STA 18+20.00
MATCH EXIST PAVEMENT
BEGIN NB LANE WIDTH TRANSITION
℄ SH5 STA 122+28.28, 37.5' RT
R 1000'
R 1000'
℄ SH5 STA 123+13.90=
℄ STEN STA 14+96.70
END NB LANE WIDTH TRANSITION
℄ SH5 STA 124+08.35, 35.5' RT
℄ SH5SB STA 19+95.26
℄ SH5 STA 124+08.35
9.5' LT
CSJ 0047-05-054 MATCH LINE STA 125+00

CROSS SLOPE TRANSITION DATA

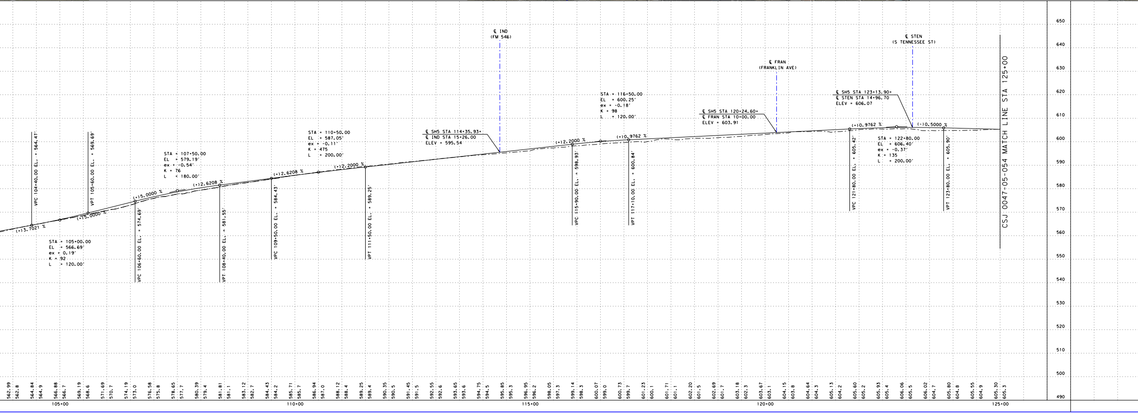
ALIGNMENT	STA	SB OUTSIDE LANE	SB INSIDE LANE	NB OUTSIDE LANE	NB INSIDE LANE
SH5		SLOPE	SLOPE	SLOPE	SLOPE
BEG TRANSITION	112+30.00	2.5%	N/A	-2.5%	N/A
END TRANSITION	112+50.00	2.0%	N/A	-2.0%	N/A
BEG TRANSITION	112+50.00	2.0%	2.0%	-2.0%	-2.0%
END TRANSITION	113+10.00	0.5%	0.5%	-1.0%	-1.0%
BEG TRANSITION	115+55.00	0.5%	0.5%	-1.0%	-1.0%
END TRANSITION	116+15.00	2.0%	2.0%	-2.0%	-2.0%

NOTES: SB OUTSIDE LANE ROTATES ABOUT SB GRADE BREAK POINT
NB OUTSIDE LANE ROTATES ABOUT NB GRADE BREAK POINT
SB INSIDE LANE AND NB INSIDE LANE ROTATE ABOUT PGL

CROSS SLOPE SIGN INDICATION

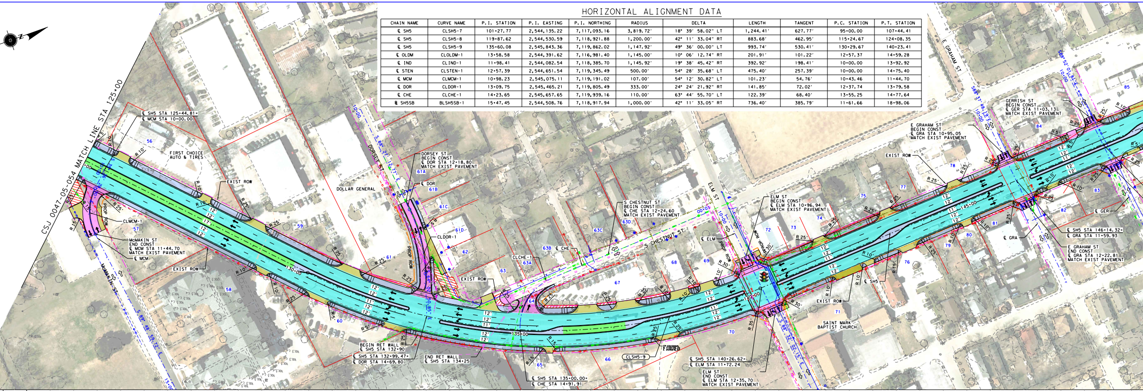
(-) (+)

(+) (-)



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	CLSH5-7	101+27.77	2,544,135.22	7,117,093.16	3,819.72′	18° 39′ 58.02″ LT	1,244.41′	627.77′	95+00.00	107+44.41
℄ SH5	CLSH5-8	119+87.62	2,544,530.59	7,118,921.88	1,200.00′	42° 11′ 33.04″ RT	883.68′	462.95′	115+24.67	124+08.35
℄ SH5	CLSH5-9	135+60.08	2,545,843.36	7,119,862.02	1,147.92′	49° 36′ 00.00″ LT	993.74′	530.41′	130+29.67	140+23.41
℄ OLDM	CLOLDM-1	13+58.58	2,544,391.62	7,116,981.40	1,145.00′	10° 06′ 12.74″ RT	201.91′	101.22′	12+57.37	14+59.28
℄ IND	CLIND-1	11+98.41	2,544,082.54	7,118,385.70	1,145.92′	19° 38′ 45.42″ RT	392.92′	198.41′	10+00.00	13+92.92
℄ STEN	CLSTEN-1	12+57.39	2,544,651.54	7,119,345.49	500.00′	54° 28′ 35.68″ LT	475.40′	257.39′	10+00.00	14+75.40
℄ MCM	CLMCM-1	10+98.23	2,545,075.11	7,119,191.02	107.00′	54° 12′ 30.82″ LT	101.23′	54.76′	10+43.46	11+44.70
℄ DOR	CLDOR-1	13+09.75	2,545,465.21	7,119,805.49	333.00′	24° 24′ 21.92″ RT	141.85′	72.02′	12+37.74	13+79.58
℄ CHE	CLCHE-1	14+23.65	2,545,657.65	7,119,939.16	110.00′	63° 44′ 55.70″ LT	122.39′	68.40′	13+55.25	14+77.64
BL SH5SB	BLSH5SB-1	15+47.45	2,544,508.76	7,118,917.94	1,000.00′	42° 11′ 33.05″ RT	736.40′	385.79′	11+61.66	18+98.06


CSJ 0047-05-054 MATCH LINE STA 125+00
℄ SH5 STA 125+44.81=
℄ MCM STA 10+00.00
FIRST CHOICE AUTO & TIRES
EXIST ROW
DOLLAR GENERAL
DORSEY ST
BEGIN CONST
℄ DOR STA 12+18.80
MATCH EXIST PAVEMENT
℄ DOR
CLDOR-1
PROP ROW
CLMCM-1
McMAKIN ST
END CONST
℄ MCM STA 11+44.70
MATCH EXIST PAVEMENT
℄ MCM
McMAKIN ST
130+00
135+00
140+00
145+00
S CHESTNUT ST
BEGIN CONST
℄ CHE STA 12+24.60
MATCH EXIST PAVEMENT
℄ CHE
CLCHE-1
S CHESTNUT ST
ELM ST
ELM ST
BEGIN CONST
℄ ELM STA 10+96.94
MATCH EXIST PAVEMENT
℄ ELM
BEGIN RET WALL
℄ SH5 STA 132+90
℄ SH5 STA 132+99.47=
℄ DOR STA 14+69.80
END RET WALL
℄ SH5 STA 134+25
℄ SH5 STA 135+00.00=
℄ CHE STA 14+91.91
CLSH5-9
℄ SH5 STA 140+26.62=
℄ ELM STA 11+72.24
ELM ST
END CONST
℄ ELM STA 12+35.70
MATCH EXIST PAVEMENT
SAINT MARK BAPTIST CHURCH
℄ SH5
E GRAHAM ST
BEGIN CONST
℄ GRA STA 10+95.05
MATCH EXIST PAVEMENT
E GRAHAM ST
GERRISH ST
BEGIN CONST
℄ GER STA 11+03.13
MATCH EXIST PAVEMENT
℄ GER
℄ GRA
℄ SH5 STA 146+14.32=
℄ GRA STA 11+59.93
E GRAHAM ST
END CONST
℄ GRA STA 12+22.81
MATCH EXIST PAVEMENT
12′
11′
R 25′
R 10′
R 15′
R 30′
R 35′
R 5′
56
57
58
59
60
61
61A
61B
61C
61D
62
63
63A
63B
63C
63D
64
65
66
67
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70
71
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73
74
75
76
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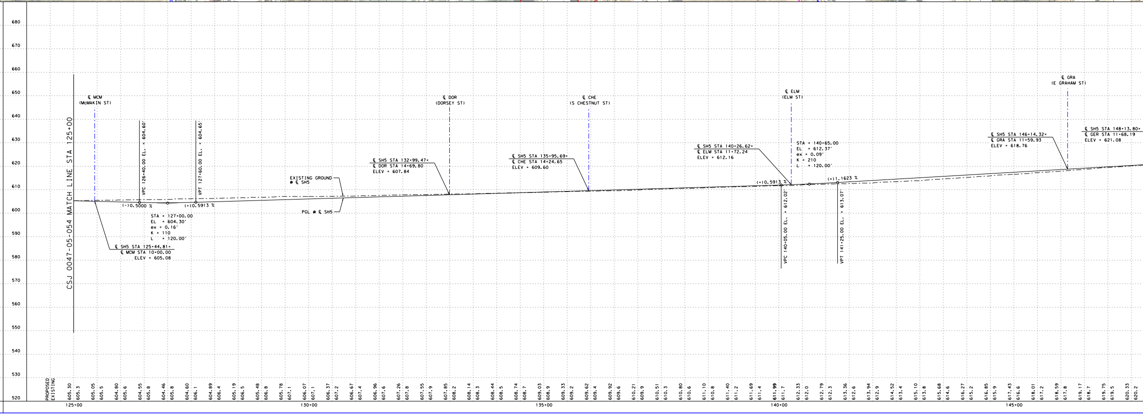
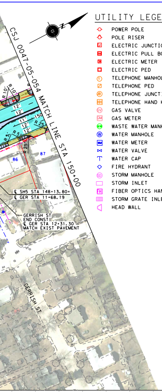
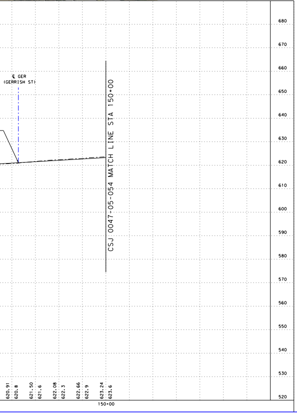
78
79
80
81
82
83
84
85




CSJ 0047-05-054 MATCH LINE STA 150+00
N
R 10'
R 10'
12'
12'
11'
12'
12'
150
R 25'
R 5'
R 5'
R 25'
86
87
℄ SH5 STA 148+13.80=
℄ GER STA 11+68.19
GERRISH ST
END CONST
℄ GER STA 12+31.30
MATCH EXIST PAVEMENT
GERRISH ST



UTILITY LEGEND

○	POWER POLE
○	POLE RISER
EJ	ELECTRIC JUNCTION BOX
⊟	ELECTRIC PULL BOX
EM	ELECTRIC METER
◻	ELECTRIC PED
Ⓣ	TELEPHONE MANHOLE
⧄	TELEPHONE PED
JB	TELEPHONE JUNCTION BOX
HH	TELEPHONE HAND HOLE
GV	GAS VALVE
GM	GAS METER
WW	WASTE WATER MANHOLE
Ⓦ	WATER MANHOLE
WM	WATER METER
⋈	WATER VALVE
⊤	WATER CAP
◇	FIRE HYDRANT
SD	STORM MANHOLE
▭	STORM INLET
FH	FIBER OPTICS HAND HOLE
▥	STORM GRATE INLET
◁	HEAD WALL

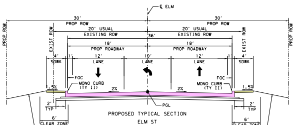
UTILITY LEGEND

WATER	W1	CITY OF MCKINNEY WATER
WATER	W1 (C)	CITY OF MCKINNEY WATER
WATER	W1 (D)	CITY OF MCKINNEY WATER
WATER	W2 (C)	NORTH TEXAS MUNICIPAL WATER DISTRICT
WATER	W3 (D)	CITY OF IRVING WATER
WATER	W4	NORTH COLLINS WATER SUPPLY
WATER	W4 (C)	NORTH COLLINS WATER SUPPLY
WATER	W4 (D)	NORTH COLLINS WATER SUPPLY
WASTE WATER	WW1	CITY OF MCKINNEY WASTE WATER
WASTE WATER	WW1 (C)	CITY OF MCKINNEY WASTE WATER
WASTE WATER	WW1 (D)	CITY OF MCKINNEY WASTER WATER
STORM DRAIN	SD	CITY OF MCKINNEY STORM
STORM DRAIN	SD (C)	CITY OF MCKINNEY STORM
STORM DRAIN	SD(D)	CITY OF MCKINNEY STORM
ELECTRIC BURIED	E1	ONCOR
OVERHEAD ELECTRIC	OH	ONCOR
OVERHEAD ELECTRIC,TELEPHONE	OH-T	ONCOR, AT&T
OVERHEAD ELECTRIC,COAX	OH1	ONCOR, TIME WARNER CABLE
OVERHEAD ELECTRIC,FIBER,COAX	OH2	ONCOR, AT&T, TIME WARNER CABLE
OH ELECTRIC,FIBER,TELEPHONE,COAX	OH3	ONCOR, AT&T, TIME WARNER CABLE
OVERHEAD ELECTRIC,FIBER	OH4	ONCOR, AT&T
OVERHEAD TELEPHONE, COAX	OH5	AT&T,TIME WARNER CABLE
ELECTRIC BURIED		TRAFFIC SIGNAL TXDOT
TELEPHONE	T1	AT&T
TELEPHONE	T1 (D)	AT&T
OVERHEAD TELEPHONE	T1 OH	AT&T
TELEPHONE DUCT	T-DUCT1	AT&T
SUPPORT STRAND		AT&T
GAS	G1	ATMOS
GAS	G1 (C)	ATMOS
GAS	G1 (D)	ATMOS
FIBER	FOC1	AT&T
FIBER	FOC1 (D)	AT&T
FIBER DUCT	DUCT2	AT&T
FIBER	FOC3	ZAYO
FIBER	FOC4	CITY OF IRVING COMMUNICATIONS
CABLE	CATV	TIME WARNER CABLE

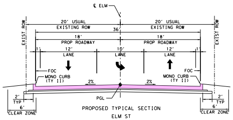
* LINE SIZES ARE FROM BEST AVAIABLE RECORDS

COLOR LEGEND

🟦	PROPOSED MAINLANES
🟧	PROPOSED BRIDGE
🟨	PROPOSED DRIVEWAY
🟪	PROPOSED CROSS STREET
🟫	PROPOSED RAMP
🟦	PROPOSED SIDEWALK AND PAVED MEDIAN
🟩	PROPOSED LANDSCAPED MEDIAN
🟧	FUTURE BY OTHERS
⬛	EXISTING BRIDGE TO REMAIN
▭	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
—ıı—	CONTROL OF ACCESS
┴┴┴	PROPOSED RETAINING WALL
—	PROPOSED SSCB
- - -	PROPOSED COMBINATION RAIL
←	PROPOSED TRAFFIC FLOW
⇦	EXISTING TRAFFIC FLOW
←	WATER FLOW
XXXXX-XX	HORIZONTAL CURVE NAME
XXX	PROPERTY ID NUMBER
╪	EXISTING DRAINAGE STRUCTURES
╪	PROPOSED DRAINAGE STRUCTURES
	PROPOSED SIGNALIZED INTERSECTION


℄ ELM
30'
PROP ROW
30'
PROP ROW
PROP ROW
PROP ROW
EXIST ROW
EXIST ROW
20' USUAL
EXISTING ROW
20' USUAL
EXISTING ROW
36'
18'
PROP ROADWAY
18'
PROP ROADWAY
4'
SDWK
1'
12'
LANE
10'
LANE
12'
LANE
1'
4'
SDWK
FOC
MONO CURB
(TY II)
FOC
MONO CURB
(TY II)
1.5%
2%
2%
1.5%
PGL
2'
TYP
2'
TYP
6'
CLEAR ZONE
6'
CLEAR ZONE
4:1 US
3:1 MAX
4:1 US
3:1 MAX

PROPOSED TYPICAL SECTION
ELM ST
STA 10+97 TO STA 11+35
NTS

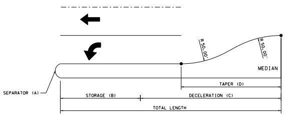

℄ ELM
20' USUAL
EXISTING ROW
20' USUAL
EXISTING ROW
EXIST ROW
EXIST ROW
36'
18'
PROP ROADWAY
18'
PROP ROADWAY
12'
LANE
10'
LANE
12'
LANE
FOC
MONO CURB
(TY II)
FOC
MONO CURB
(TY II)
2%
2%
PGL
2'
TYP
2'
TYP
6'
CLEAR ZONE
6'
CLEAR ZONE

PROPOSED TYPICAL SECTION
ELM ST
STA 12+08 TO STA 12+36
NTS

PROPERTY OWNERS

SOURCE:
COLLIN COUNTY APPRAISAL DISTRICT
JULY 2019

ID#	SITE ADDRESS	OWNER	BUSINESS NAME
71	1215 S MCDONALD ST	SAINT MARK MISSIONARY BAPTIST CHURCH	SAINT MARK MISSIONARY BAPTIST CHURCH
72	1219 S CHESTNUT ST	FRANCISCA GUILLEN	PRINCETON TIRE SHOP #2
73	1217 S CHESTNUT ST	FRANCISCA GUILLEN	
74	1215 S CHESTNUT ST	FRANCISCA GUILLEN	
75	1208 S MCDONALD ST	MCKINNEY COMMERCIAL LLC	N & N AUTO SALES
76	1213 S MCDONALD ST	TANG ARNG KIM & SUI	LA PALOMA TAQUERIA
77	1208 S MCDONALD ST	MCKINNEY COMMERCIAL LLC	N & N AUTO SALES
78	1202 S MCDONALD ST	MNAA LLC	
79	WILCOX ST	ANTONIA & LUZ E LOYA	
80	1205 S MCDONALD ST	J CARLOS & REBECCA ANN COLMENERO	COLMENERO MEXICAN IMPORTS
81	1201 S MCDONALD ST	MIKE ADAMS REALTY LLC	THE TRANSMISSION SHOP
82	1103 S MCDONALD ST	DORA SILVIA LEMUS	LA SALVADORENA RESTAURANT
83	402 GERRISH ST	TAYLOR GRADY	
84	1100 S MCDONALD ST	AGRARIUS LLC	EZ DRIVE AUTO
85	1004 S MCDONALD ST	SUPER B CAR WASH INC	DOUBLE TIME CAR WASH
86	1009 S MCDONALD ST	RAFIQ MOHAMMAD KHAN	JIM'S DRIVE-IN
87	1005 S MCDONALD ST	NURSERY DECALS & MORE LLC	STRIKE ZONE


R 50.00'
R 50.00'
MEDIAN
SEPARATOR (A)
STORAGE (B)
DECELERATION (C)
TAPER (D)
TOTAL LENGTH

TURN LANE DETAIL

TURN LANE DETAIL TABLE

CROSS STREET	MEDIAN NOSE STA @ SH 5	MEDIAN NOSE RADIUS (FT)	STORAGE (FT)	DECELERATION (FT)	TAPER (FT)	TOTAL LENGTH (FT)	L/R	SB/NB
		(A)	(B)	(C)	(D)			
HARRY MCKILLOP BLVD*	N/A	N/A	100	275	100	375	R	NB
HARRY MCKILLOP BLVD*	100+49.33	3	100	325	50	375	L	SB
PRIVATE DRIVEWAY	110+11.81	4	100	180	60	280	L	NB
ELDORADO PKWY*	N/A	N/A	100	275	100	375	R	SB
ELDORADO PKWY*	113+71.00	3	100	230	70	330	L	NB
INDUSTRIAL BLVD*	115+00.35	3	100	200	100	300	L	SB
S TENNESSEE ST	122+70.34	4	100	275	50	375	L	NB
DORSEY ST	132+58.87	3	100	160	50	260	L	NB
DORSEY ST	133+28.97	3	100	160	50	260	L	SB
ELM ST*	139+88.41	3	100	160	50	260	L	NB
ELM ST*	140+59.84	3	100	160	50	260	L	SB
GRAHAM ST	145+84.20	3	100	160	50	260	L	NB
GRAHAM ST	146+44.20	3	100	160	50	260	L	SB

* SIGNALIZED INTERSETION

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

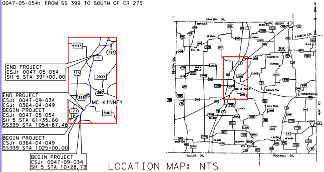
DESIGN SPEED	
60 MPH	SS 399 MAINLANE
40 MPH	SH 5 MAINLAINE, RAMPS, FM 1378 (COUNTRY CLUB RD), SPUR 399 FRONTAGE ROAD, SH 5 FRONTAGE ROAD, FM 546 (HARRY MCKILLOP BLVD), ELDORADO PKWY/INDUSTRIAL BLVD, US 380 (W UNIVERSITY DR), SS 195 (WESTON RD)
30 MPH	ALL OTHER STREETS

HORIZ. SCALE IN FEET: 1" = 100'
0 50 100 150 200
0 10 20 30 40
VERT. SCALE IN FEET: 1" = 20'

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


END PROJECT
CSJ: 0047-05-054
SH 5 STA 391+00.00
END PROJECT
CSJ: 0047-09-034
CSJ: 0364-04-049
BEGIN PROJECT
CSJ: 0047-05-054
SH 5 STA 61+35.60
SS399 STA 1054+87.48
BEGIN PROJECT
CSJ: 0364-04-049
SS399 STA 1025+00.00
BEGIN PROJECT
CSJ: 0047-09-034
SH 5 STA 10+28.73
543
121
5
75
2933
380
359
MC KINNEY
121
546
N
GRAYSON CO.
FANNIN CO.
DENTON CO.
HUNT CO.
DALLAS CO.
ROCKWALL CO.
WESTON
CELINA
ANNA
PRINCETON
FARMERSVILLE
LUCAS
ALLEN
PLANO
MURPHY
WYLIE
LAVON
NEVADA
MC KINNEY

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
4/3/2020

APRIL 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 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 95+00 TO STA 150+00

ROLL 4 OF 10 ROLLS

DESIGNED BY:	FED.RD. DIV.NO.	FEDERAL AID PROJECT NO.		ROLL NO.
BAKER	6	XX (XX) XXXX		S-004
DRAWN BY:	STATE	DIST.	COUNTY	
BAKER	TEXAS	DAL	COLLIN	
CHECKED BY:	CONT	SEC	JOB	HIGHWAY NO.
BAKER	0047	05	054, etc	SH 5

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