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TEXAS DEPARTMENT OF TRANSPORTATION

DALLAS DISTRICT

MOHAMED K. BUR, P.E. DISTRICT ENGINEER

DESIGN SCHEMATIC

URBAN PRINCIPAL ARTERIAL

DENTON COUNTY

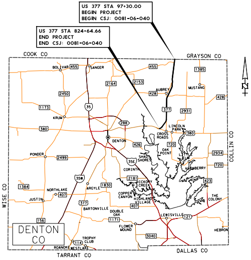
US 377

FROM: NORTH OF BUS 377E
TO: US 380
PROJECT LENGTH: 13.776 MILES (72,734.66 FT)

CSJ: 0081-06-040

ROADWAY SECTION	DESIGN SPEED	FUNCTIONAL CLASS
US 377	45 MPH	URBAN PRINCIPAL ARTERIAL
BLACKJACK RD E	30 MPH	LOCAL
BLACKJACK RD W	30 MPH	LOCAL

PROJECT LOCATION


US 377 STA 97+30.00
BEGIN PROJECT
BEGIN CSJ: 0081-06-040
US 377 STA 824+64.66
END PROJECT
END CSJ: 0081-06-040
COOK CO
GRAYSON CO
COLLIN CO
WISE CO
DALLAS CO
TARRANT CO
DENTON CO
BOLIVAR
SANGER
AUBREY
MUSTANG
KRUM
DENTON
LINCOLN PARK
CROSS ROADS
OAK POINT
LITTLE ELM
SHADY SHORES
HACKBERRY
CORINTH
PONDER
HICKORY CREEK
COPPER CANYON
HIGHLAND VILLAGE
THE COLONY
NORTHLAKE
ARGYLE
JUSTIN
BARTONVILLE
DOUBLE OAK
LEWISVILLE
FLOWER MOUND
HEBRON
TROPHY CLUB
ROANOKE
WESTLAKE
455
2164
2153
2450
428
1385
1173
35
377
2931
288
380
426
720
2499
35E
2934
2181
35W
1830
423
1384
407
156
1171
121
3040
114
N

PREPARED BY TEAGUE NALL AND PERKINS, INC.
FIRM REGISTRATION NUMBER 230

Dustin C. Ogle
91101

10/7/2020

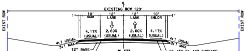
Dustin C. Ogle

08/31/2020
DATE APPROVED

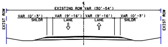
ROLL 7 of 15

OCTOBER 2020

50 0 50 100
HORIZONTAL SCALE 1" = 100'
VERTICAL SCALE 1" = 10'
SCALE IN FEET

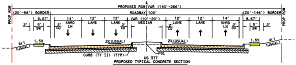

℄
EXISTING ROW 120'
EXIST ROW
EXIST ROW
1'
10' SHLDR
12' LANE
12' LANE
10' SHLDR
1'
4.17% (USUAL)
2.60% (USUAL)
2.60% (USUAL)
4.17% (USUAL)
4:1 USUAL
3:1 MAX
4:1 USUAL
3:1 MAX
12" BASE
2 COURSE SURFACE TREATMENT
2" (TY C) ACP SURFACE
2" (TY B) ACP LEVEL UP/OVERLAY

US 377
EXISTING TYPICAL SECTION
465+00.00 TO 530+00.00

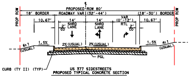

℄
EXISTING ROW VAR (30'-54')
EXIST ROW
EXIST ROW
VAR (0'-3') SHLDR
VAR (9'-16') LANE
VAR (9'-16') LANE
VAR (0'-3') SHLDR

US 377 SIDESTREETS
LOCAL ROAD (ASPHALT)
EXISTING TYPICAL SECTION

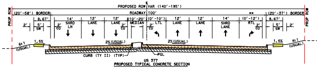
BLACKJACK ROAD E BLACKJACK ROAD W


℄
PROPOSED ROW VAR (140'-266')
PROP ROW
PROP ROW
(20'-58') BORDER
ROADWAY 100'
(20'-146') BORDER
8.67'
2'
5' SW
2' CO
14' SHRD LN
12' LANE
12' LANE
2' CO
VAR (10'-20') MEDIAN
2' CO
12' LANE
12' LANE
14' SHRD LN
2' CO
8.67'
5' SW
2'
6:1 (USUAL)
1.5%
2% (USUAL)
2% (USUAL)
1.5%
4:1 (USUAL)
CURB (TY II) (TYP)
PGL

US 377
PROPOSED TYPICAL CONCRETE SECTION
465+00.00 TO 484+12.95
493+95.17 TO 502+17.16
515+43.20 TO 530+00.00

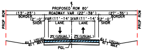

℄
PROPOSED ROW 80'
PROP ROW
PROP ROW
18' BORDER
ROADWAY VAR (32'-44')
(18'-30') BORDER
10.67'
2' CO
14' SHRD LANE
14' SHRD LANE
VAR (0'-12') RTL
2' CO
10.67'
6:1 (USUAL)
1.5%
2% (USUAL)
2% (USUAL)
1.5%
4:1 (USUAL)
PGL
CURB (TY II) (TYP)

US 377 SIDESTREETS
PROPOSED TYPICAL CONCRETE SECTION
BLACKJACK RD W
STA 2+34.00 TO STA 4+45.36
BLACKJACK RD E
STA 5+54.64 TO STA 7+68.15


℄
PROPOSED ROW VAR (140'-195')
PROP ROW
PROP ROW
(20'-58') BORDER
ROADWAY 100'
**
(20'-37') BORDER
8.67'
2'
5' SW
2' CO
14' SHRD LN
12' LANE
12' LANE
2' CO
(10'-20') MEDIAN
(0'-10') LTL
2' CO
12' LANE
12' LANE
14' SHRD LANE
(0'-12') RTL
2' CO
8.67'
5' SW
2'
6:1 (USUAL)
1.5%
2% (USUAL)
2% (USUAL)
1.5%
4:1 (USUAL)
CURB (TY II) (TYP)
PGL

US 377
PROPOSED TYPICAL CONCRETE SECTION
484+12.95 TO 493+95.17
502+17.16 TO 515+43.20

NORTHBOUND LEFT TURNS	SOUTHBOUND LEFT TURNS	SOUTHBOUND U TURNS
489+00.00 TO 493+95.17	484+12.95 TO 489+00.00	511+53.72 TO 515+43.20
507+20.78 TO 512+13.16	502+17.16 TO 507+20.78	** NO RIGHT TURN LANE THIS SHEET


℄
PROPOSED ROW 80'
PROP ROW
PROP ROW
(13'-23') BORDER
ROADWAY VAR (22'-38')
(27'-36') BORDER
(2'-0') SHDR
VAR (11'-14') LANE
VAR (11'-14') LANE
(2'-0') SHDR
2% (USUAL)
2% (USUAL)
6:1 USUAL
4:1 MAX
6:1 USUAL
4:1 MAX
PGL

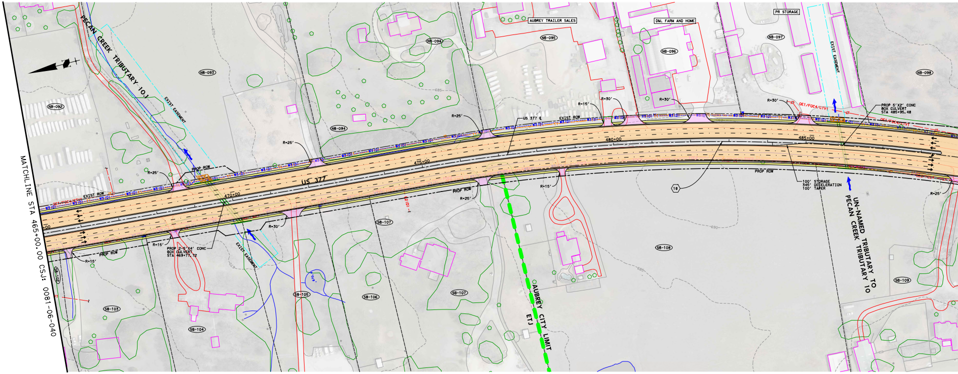
US 377 SIDESTREET
PROPOSED TYPICAL ASPHALT SECTION
BLACKJACK RD W
STA 0+00.00 TO STA 2+34.00
BLACKJACK RD E
STA 7+68.15 TO STA 8+50.00

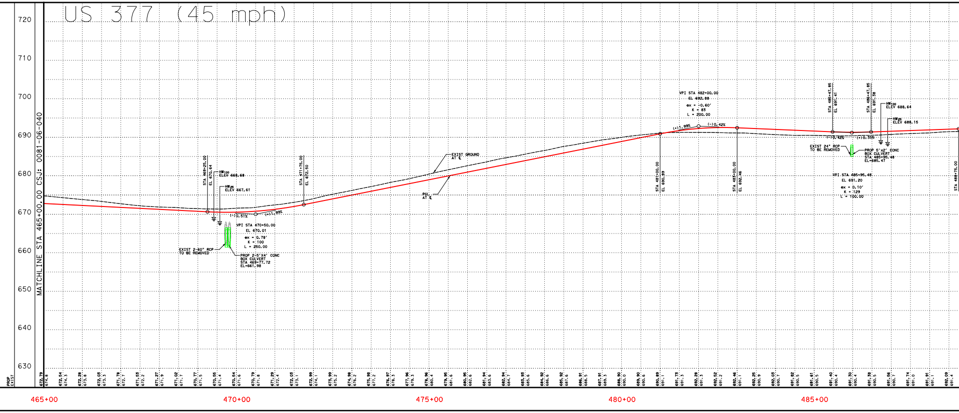
TYPICAL SECTIONS

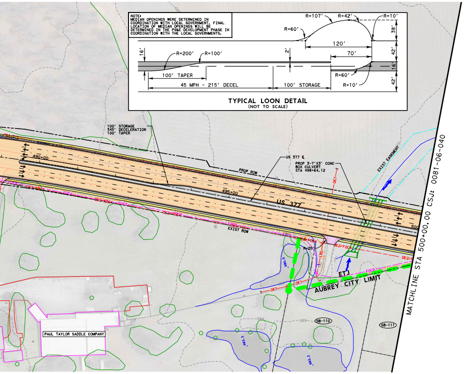
INTENTIONALLY LEFT BLANK

TxDOT TPP APPROVAL GRANTED 09-22-2020
TRAFFIC DATA PROVIDED BY OTHON, INC. ON 07-13-2020

TRAFFIC DIAGRAMS


MATCHLINE STA 465+00.00 CSJ: 0081-06-040
PECAN CREEK TRIBUTARY 10.1
EXIST EASEMENT
AUBREY TRAILER SALES
D&L FARM AND HOME
PR STORAGE
NB-092
NB-093
NB-094
NB-095
NB-096
NB-097
NB-098
SB-102
SB-103
SB-104
SB-105
SB-106
SB-107
SB-108
SB-109
US 377
US 377 ℄
EXIST ROW
PROP ROW
W3(D)
OE1/FOC4/CTV1
FOC2
470+00
475+00
480+00
485+00
R=15'
R=25'
R=30'
PROP 2-5'X4' CONC BOX CULVERT STA 469+77.72
PROP 5'X2' CONC BOX CULVERT STA 485+95.48
100' STORAGE
345' DECELERATION
100' TAPER
18
UN-NAMED TRIBUTARY TO PECAN CREEK TRIBUTARY 10
AUBREY CITY LIMIT
ETJ
670
685
690

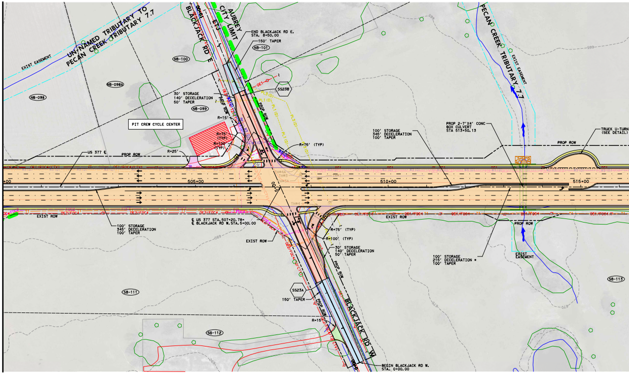




NOTE:
MEDIAN OPENINGS WERE DETERMINED IN COORDINATION WITH LOCAL GOVERNMENT. FINAL LOCATION OF MEDIAN OPENINGS WILL BE DETERMINED IN THE PS&E DEVELOPMENT PHASE IN COORDINATION WITH THE LOCAL GOVERNMENTS.

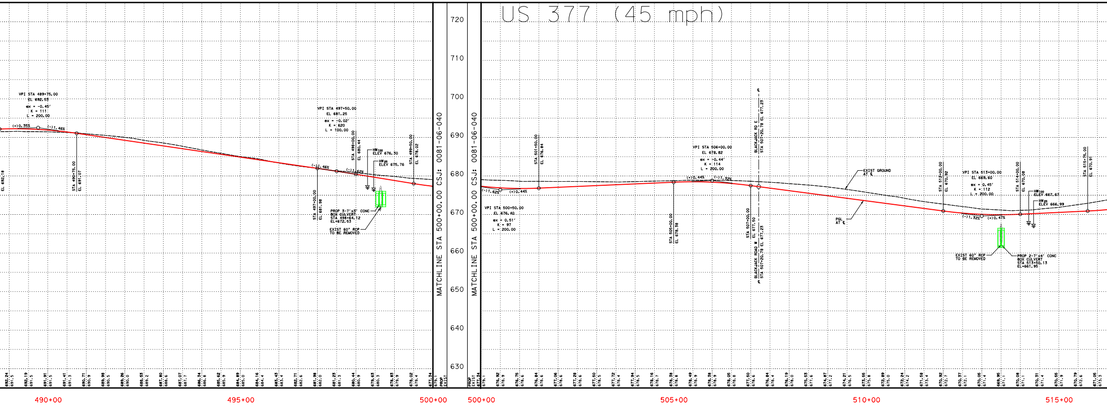
TYPICAL LOON DETAIL
(NOT TO SCALE)

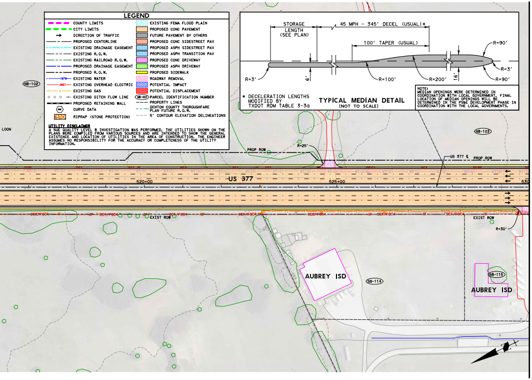
R=107'
R=42'
R=10'
R=60'
38'
120'
16'
R=200'
R=100'
2'
70'
42'
R=60'
16'
100' TAPER
45 MPH - 215' DECEL
100' STORAGE
R=10'
42'
100' STORAGE
345' DECELERATION
100' TAPER
490+00
495+00
US 377
US 377 ℄
PROP 3-7'X3' CONC
BOX CULVERT
STA 498+64.12
PROP ROW
EXIST ROW
EXIST EASEMENT
R=20'
ETJ
AUBREY CITY LIMIT
SB-110
SB-111
PAUL TAYLOR SADDLE COMPANY
MATCHLINE STA 500+00.00 CSJ: 0081-06-040



MATCHLINE STA 500+00.00 CSJ: 0081-06-040
UN-NAMED TRIBUTARY TO PECAN CREEK TRIBUTARY 7.7
EXIST EASEMENT
BLACKJACK RD E
AUBREY CITY LIMIT
ETJ
END BLACKJACK RD E.
STA. 8+50.00
150' TAPER
NB-101
NB-100
NB-098A
NB-098
NB-099
SS23B
30' STORAGE
140' DECELERATION
50' TAPER
PIT CREW CYCLE CENTER
R=15'
R=75' (TYP)
R=100' (TYP)
R=25'
US 377 ℄
PROP ROW
505+00
510+00
515+00
℄ US 377 STA. 507+20.78=
℄ BLACKJACK RD W.STA. 5+00.00
100' STORAGE
345' DECELERATION
100' TAPER
EXIST ROW
R=75' (TYP)
R=100' (TYP)
30' STORAGE
140' DECELERATION
50' TAPER
100' STORAGE
215' DECELERATION *
100' TAPER
PROP 2-7'X4' CONC
BOX CULVERT
STA 513+50.13
TRUCK U-TURN
(SEE DETAIL)
PECAN CREEK TRIBUTARY 7.7
EXIST EASEMENT
SB-111
SB-112
SB-113
SS23A
150' TAPER
R=15'
BLACKJACK RD W
BEGIN BLACKJACK RD W.
STA. 0+00.00

US 377 (45 mph)




LEGEND
COUNTY LIMITS
CITY LIMITS
DIRECTION OF TRAFFIC
PROPOSED CENTERLINE
EXISTING DRAINAGE EASEMENT
EXISTING R.O.W.
EXISTING RAILROAD R.O.W.
PROPOSED DRAINAGE EASEMENT
PROPOSED R.O.W.
EXISTING WATER
EXISTING OVERHEAD ELECTRIC
EXISTING GAS
EXISTING DITCH FLOW LINE
PROPOSED RETAINING WALL
CURVE DATA
RIPRAP (STONE PROTECTION)
EXISTING FEMA FLOOD PLAIN
PROPOSED CONC PAVEMENT
FUTURE PAVEMENT BY OTHERS
PROPOSED CONC SIDESTREET PAV
PROPOSED ASPH SIDESTREET PAV
PROPOSED ASPH TRANSITION PAV
PROPOSED CONC DRIVEWAY
PROPOSED ASPH DRIVEWAY
PROPOSED SIDEWALK
ROADWAY REMOVAL
POTENTIAL IMPACT
POTENTIAL DISPLACEMENT
PARCEL IDENTIFICATION NUMBER
PROPERTY LINES
DENTON COUNTY THOROUGHFARE PLAN FUTURE R.O.W.
5' CONTOUR ELEVATION DELINEATIONS
STORAGE LENGTH (SEE PLAN)
45 MPH - 345' DECEL (USUAL)*
100' TAPER (USUAL)
R=90'
R=3'
R=3'
6'
R=100'
R=200'
16'
R=90'
NB-102
NB-103
LOON
PROP ROW
R=25'
US 377 ℄
PROP ROW
US 377
520+00
525+00
530
EXIST ROW
EXIST ROW
R=30'
AUBREY ISD
SB-114
SB-115
AUBREY ISD
MATCHLINE STA 530+00.00 CSJ: 0081-06-040

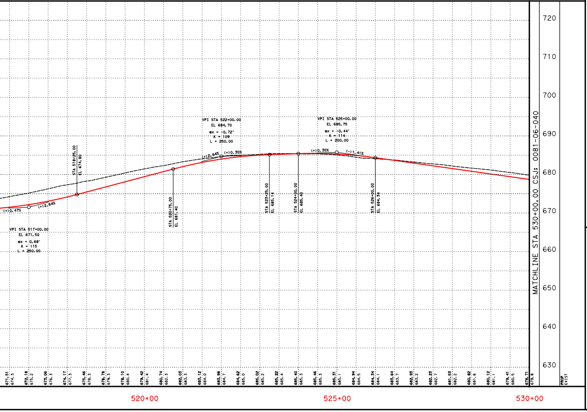
UTILITY DISCLAIMER

A SUE QUALITY LEVEL B INVESTIGATION WAS PERFORMED. THE UTILITIES SHOWN ON THE PLANS WERE COMPILED FROM VARIOUS SOURCES AND ARE INTENDED TO SHOW THE GENERAL EXISTENCE AND LOCATION OF UTILITIES IN THE AREA OF CONSTRUCTION. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OR COMPLETENESS OF THE UTILITY INFORMATION.

TYPICAL MEDIAN DETAIL
(NOT TO SCALE)

* DECELERATION LENGTHS MODIFIED BY TXDOT RDM TABLE 3-3a

NOTE:
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 GOVERNMENTS.



CURVE DATA TABLE

CENTERLINE US 377 CURVE DATA

CURVE NO.	CURVE	P.I. STATION	P.I. STATION - N	P.I. STATION - E	DELTA	RADIUS	DEGREE	TANGENT	LENGTH	CHORD BEARING	CHORD LENGTH	P.C. STATION	P.T. STATION
18	P_377-18	483+47.00	7166666.04	2435665.25	19° 59' 47.63" (RT)	4583.66	1° 15' 00.00"	808.08	1599.73	S 15° 18' 58.50" W	1591.62	475+38.92	491+38.64

CENTERLINE BLACKJACK RD W CURVE DATA

CURVE NO.	CURVE	P.I. STATION	P.I. STATION - N	P.I. STATION - E	DELTA	RADIUS	DEGREE	TANGENT	LENGTH	CHORD BEARING	CHORD LENGTH	P.C. STATION	P.T. STATION
SS23A	CURBJ2	2+11.05	7164513.07	2434354.37	1° 05' 33.29" (RT)	4000.00	1° 25' 56.62"	38.14	76.28	S 89° 00' 51.31" E	76.28	1+72.91	2+49.19

CENTERLINE BLACKJACK RD E CURVE DATA

CURVE NO.	CURVE	P.I. STATION	P.I. STATION - N	P.I. STATION - E	DELTA	RADIUS	DEGREE	TANGENT	LENGTH	CHORD BEARING	CHORD LENGTH	P.C. STATION	P.T. STATION
SS23B	CURBJ4	7+92.47	7164495.80	2434935.52	1° 41' 04.35" (LT)	4000.00	1° 25' 56.62"	58.81	117.60	S 87° 37' 32.48" E	117.60	7+33.67	8+51.27

OWNER INFORMATION TABLE

PARCEL NO.	OWNER'S NAME	SITUS ADDRESS	ACRES
NB-092	BIG D COMMERCIAL VENTURES LLC	1549 S US 377	52.60
NB-093	DJB FARMS LLC	US 377	35.64
NB-094	REDFEARN, PAUL & CATHY	8080 US 377	33.62
NB-095	REDFEARN, PAUL & CATHY	8050 US 377	7.00
NB-096	MACELROY LAND MANAGEMENT LLC	US 377	5.00
NB-097	REDFEARN, PAUL DBA PAUL REDFEARN ENTERPRISES	US 377	5.91
NB-098	BOX, SALLY CAROLYN TURNER 1999 TR TURNER, BETSY C BRENT TRSTEE	837 US 377	42.10
NB-098A	BARNES, SHERRI	US 377	1.68
NB-099	PIT CREW CYCLE CENTER	557 E BLACKJACK RD	0.52
NB-100	BARNES, SHERRI	-	6.16
NB-101	ALW 377 LLC	-	171.66
NB-102	ALW 377 LLC	-	32.80
NB-103	ALW 377 LLC	460 US 377	57.81
SB-102	SHEEDER, MILES & OLLIE	8293 HIGHWAY 377	2.71
SB-103	SHEEDER, WARD D & CAROLINA	8293 HIGHWAY 377	3.05
SB-104	WHITMIRE, RAYE DALE	8171 HIGHWAY 377	4.00
SB-105	WHITMIRE LINE CLEARANCE	8171 US 377	3.10
SB-106	TROTH, CHARLES & KIMBERLY	US 377	2.24
SB-107	TROTH, CHARLES & KIMBERLY	US 377	4.84
SB-108	TAYLOR, PAT J & LISA	8035 HIGHWAY 377	2.87
SB-109	TAYLOR, ANNA	7849 S US 377	18.41
SB-110	VENABLE ESTATES LTD	US 377	4.67
SB-111	VENABLE ESTATES LTD	US 377	5.27
SB-112	VENABLE ESTATES LTD	-	6.55
SB-113	SIMMONS, JERRY H	418 S MAGNOLIA ST	38.69
SB-114	AUBREY ISD	US 377	3.17
SB-115	AUBREY ISD	US 377	2.07

SUPERELEVATION TABLE

SOUTHBOUND STATION	SUPERELEVATION e%	NORTHBOUND STATION	SUPERELEVATION e%
505+00.00	-2.0%	505+00.00	-2.0%
505+50.00	-1.5%	505+50.00	-1.5%
508+90.00	-1.5%	508+90.00	-1.5%
509+40.00	-2.0%	509+40.00	-2.0%

NOTES:

1. PROPERTY OWNERSHIP DATA FROM D.C.A.D. 10-29-2019.
2. EXISTING TOPO CURRENT AS OF 10-19-17.
3. 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 GOVERNMENTS.
4. SUPERELEVATION AXIS OF ROTATION IS ABOUT THE PGL.
5. DIMENSIONS ARE TO THE EDGE OF PAVEMENT OR NOMINAL FACE OF CURB (UNLESS NOTED OTHERWISE).
6. EXISTING CULVERT LOCATIONS, SIZE AND ELEVATIONS WERE OBTAINED FROM RECORD DOCUMENTS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
7. EXISTING DRIVEWAYS WILL REMAIN UNLESS IT IS DETERMINED DURING DETAILED DESIGN STAGE AND COORDINATION WITH THE LOCAL GOVERNMENT THAT THE DRIVEWAY IS A SAFETY ISSUE AND/OR IS LOCATED WITHIN ACCESS DENIAL LIMITS SHOWN.
8. BUILDINGS ARE SHOWN AS POTENTIAL DISPLACEMENT IF THE PROPOSED ROW PHYSICALLY INTERSECTS THE EXISTING BUILDING STRUCTURE.
9. CURBS ON THE CROSS STREETS ARE TYPE II (UNLESS NOTED OTHERWISE).
10. CONVENTIONAL ROADWAY SIGNAGE (SMALL SIGNS) ARE NOT SHOWN AND WILL BE DEVELOPED DURING THE PS&E PHASE OF THE PROJECT.

BACK TANGENT	AHEAD TANGENT
S 5° 19′ 04.69" W	S 25° 18′ 52.32" W

BACK TANGENT	AHEAD TANGENT
S 89° 33′ 37.95" E	S 88° 28′ 04.66" E

BACK TANGENT	AHEAD TANGENT
S 86° 47′ 00.31" E	S 88° 28′ 04.66" E

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TEXAS DEPARTMENT OF TRANSPORTATION

DALLAS DISTRICT

MOHAMED K. BUR, P.E. DISTRICT ENGINEER

DESIGN SCHEMATIC

URBAN PRINCIPAL ARTERIAL

DENTON COUNTY

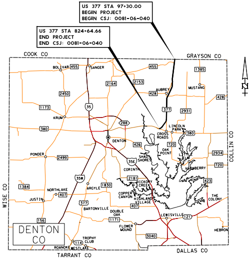
US 377

FROM: NORTH OF BUS 377E
TO: US 380
PROJECT LENGTH: 13.776 MILES (72,734.66 FT)

CSJ: 0081-06-040

ROADWAY SECTION	DESIGN SPEED	FUNCTIONAL CLASS
US 377	45 MPH	URBAN PRINCIPAL ARTERIAL
BLACKJACK RD E	30 MPH	LOCAL
BLACKJACK RD W	30 MPH	LOCAL

PROJECT LOCATION


US 377 STA 97+30.00
BEGIN PROJECT
BEGIN CSJ: 0081-06-040
US 377 STA 824+64.66
END PROJECT
END CSJ: 0081-06-040
COOK CO
GRAYSON CO
COLLIN CO
WISE CO
TARRANT CO
DALLAS CO
DENTON CO
N
BOLIVAR
455
SANGER
2164
2153
428
AUBREY
1385
MUSTANG
2450
1173
35
KRUM
377
2931
288
380
LINCOLN PARK
CROSS ROADS
DENTON
426
720
OAK POINT
LITTLE ELM
PONDER
2499
35E
SHADY SHORES
2934
HACKBERRY
CORINTH
2181
HICKORY CREEK
35W
1830
ARGYLE
1384
NORTHLAKE
407
COPPER CANYON
HIGHLAND VILLAGE
423
THE COLONY
JUSTIN
BARTONVILLE
DOUBLE OAK
1171
LEWISVILLE
121
156
FLOWER MOUND
HEBRON
3040
TROPHY CLUB
114
ROANOKE
WESTLAKE

PREPARED BY TEAGUE NALL AND PERKINS, INC.
FIRM REGISTRATION NUMBER 230

Dustin C. Ogle
91101

10/7/2020

08/31/2020
DATE APPROVED

50 0 50 100
HORIZONTAL SCALE 1" = 100′
VERTICAL SCALE 1" = 10′
SCALE IN FEET

ROLL 7 of 15

OCTOBER 2020