Texas Department of Transportation®

DALLAS DISTRICT
DESIGN SCHEMATIC
MOHAMED K. BUR, P.E.
DISTRICT ENGINEER

DENTON COUNTY

FM 1385

FROM: US 380 TO FM 455
CSJ: 1315-01-030

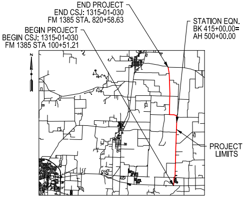
FUNCTIONAL CLASS: URBAN MAJOR COLLECTOR

DESIGN SPEED: 45 mph (FM 1385)
30 mph (CROSS-ST)

PROJECT LENGTH: 12.03 MILES

INDEX OF SHEETS:

ROLL 1: US 380 TO UNION PARK BLVD - STA 100+51.21 TO STA 170+00
ROLL 2: UNION PARK BLVD TO NORTH OF WINN RIDGE RD - STA 170+00 TO STA 245+00
ROLL 3: NORTH OF WINN RIDGE RD TO RANCHETTE RD - STA 245+00 TO STA 322+00
ROLL 4: RANCHETTE RD TO NORTH OF FM 428 WEST - STA 322+00 TO STA 397+00
ROLL 5: NORTH OF FM 428 WEST TO MUSTANG CREEK - STA 397+00 TO STA 558+00
ROLL 6: MUSTAND CREEK TO NORTH OF JOE ALLEN RD - STA 558+00 TO STA 635+00
ROLL 7: NORTH OF JOE ALLEN RD TO NORTH OF FREINDSHIP RD - STA 635+00 TO STA 713+00
ROLL 8: NORTH OF FREINDSHIP RD TO STRITTMATTER RD - STA 713+00 TO STA 791+00
ROLL 9: STRITTMATTER RD TO FM 455 - STA 791+00 TO STA 820+58.63


END PROJECT
END CSJ: 1315-01-030
FM 1385 STA. 820+58.63
BEGIN PROJECT
BEGIN CSJ: 1315-01-030
FM 1385 STA 100+51.21
STATION EQN.
BK 415+00.00=
AH 500+00.00
PROJECT LIMITS
N

DENTON COUNTY

LOCATION MAP

N.T.S.

SEPTEMBER 2020

HORIZ SCALE: 1"=100'
0 50 100 150 200

VERTICAL SCALE: 1"=10'
0 5 10 15 20

HOWARD COLUMBUS GIBBS III, P.E.
(TX PE NO. 100239)

TIMOTHY M. NESBITT, P.E.
(TX PE NO. 66648)

DATE SUBMITTED
9/11/2020

DATE APPROVED

DATE REVISED

NOT INTENDED FOR CONSTRUCTION, BIDDING, OR PERMIT PURPOSES

ROLL 7 OF 9

Lina T. Ramey & Associates, Inc.
3320 Belt Line Rd
Farmers Branch, Texas 75234
TBPE Registration No. F-782

CIVIL ASSOCIATES, INC.
9330 LBJ Frwy, Ste. 1150
Dallas, Texas 75243
TBPE Firm Registration No. 6981

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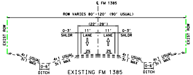
LEGEND:

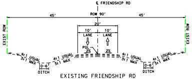
- 🟨 PROPOSED MAINLANES
- ▭ PROPOSED CROSS STREETS
- ▬ PROPOSED DRIVEWAYS
- ▬ PROPOSED SIDEWALKS
- ▬ PROPOSED BRIDGE STRUCTURES
- ☒ PAVEMENT REMOVAL
- ▨ DISPLACEMENTS
- — · — APPARENT EXISTING ROW
- — · — PROPOSED ROW
- — · — PROPOSED CENTERLINE/BASELINE
- - - - EXISTING EASEMENT
- ▬ 100 YR FLOODPLAIN LIMITS
- ▨ FLOODWAY LIMITS
- - - - FUTURE PROJECT (BY OTHERS)
- — STREAM FLOW
- → DIRECTION OF TRAVEL
- - - - EXISTING CULVERT
- — PROPOSED CULVERT
- (XXX-X) CURVE NUMBER
- (XX) PROPERTY OWNERSHIP LABELS

NOTES:

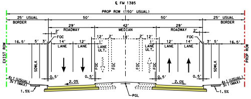
1. EXISTING FEATURES WERE NOT FIELD SURVEYED. SCHEMATICS ARE BASED ON EXISTING PLANS AND AERIAL SURVEYS DATED APRIL 2020 AND RECORD PLANS
2. FINAL LOCATION OF MEDIAN OPENINGS WILL BE DETERMINED IN THE PS&E DEVELOPMENT PHASE IN COORDINATION WITH THE LOCAL GOVERNMENTS.
3. SUPERELEVATION AXIS OF ROTATION IS ABOUT THE PGL.
4. DIMENSIONS ARE TO THE EDGE OF PAVEMENT OR NOMINAL FACE OF CURB UNLESS NOTED OTHERWISE.
5. APPROXIMATE 100 YEAR FLOODPLAIN LIMITS ARE BASED UPON FEMA FLOOD INSURANCE RATE MAP 48121C0270G.
6. EXISTING CULVERT LOCATIONS, SIZE, AND ELEVATIONS OBTAINED FROM FIELD SURREY FOR INFORMATIONAL PURPOSES ONLY.
7. EXISTING DRIVEWAYS WILL REMAIN UNLESS IT IS DETERMINED DURING DETAILED DESIGN STAGE AND COORDINATION WITH LOCAL GOVERNMENT THAT THE DRIVEWAY IS A SAFETY ISSUE AND/OR IS LOCATED WITHIN ACCESS DENIAL LIMITS SHOWN.
8. ALL CURBS ARE TYPE II (6") (UNLESS NOTED OTHERWISE).
9. CONVENTIONAL ROADWAY SIGNAGE (SMALL SIGNS) ARE NOT SHOWN AND WILL BE DEVELOPED DURING THE PS&E PHASE OF THE PROJECT.
10. WB-62 DESIGN VEHICLE WAS USED IN EVALUATION OF TURNING MOVEMENTS.
11. TRAFFIC VOLUMES BASED ON TRAFFIC COUNTS AND GROWTH RATES PROVIDED BY TP&P. TRAFFIC VOLUMES APPROVED BY TXDOT TP&P (MARCH 2020).
12. AS PER MUTCD REQUIREMENTS, A TRAFFIC SIGNAL WARRANT ANALYSIS WILL BE REQUIRED AFTER INTERSECTIONS ARE CONSTRUCTED TO JUSTIFY THE INSTALLATION OF TRAFFIC SIGNALS.
14. OWNERSHIP INFORMATION SHOWN ON SCHEMATIC OBTAINED FROM DENTON COUNTY APPRAISAL DISTRICT (AUGUST 2020).


℄ FM 1385
ROW VARIES 80'-120' (90' USUAL)
(22'-28')
0-3' SHLDR
11' LANE
11' LANE
0-3' SHLDR
EXIST ROW
2%
4:1 USUAL
3:1 MAX
0-6'
DITCH

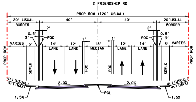
EXISTING FM 1385
TYPICAL SECTION


℄ FRIENDSHIP RD
ROW 90'
45'
45'
20'
10' LANE
10' LANE
PGL
2%
EXIST ROW
4:1 USUAL
3:1 MAX
0-6'
DITCH

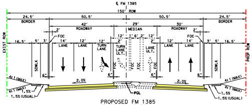
EXISTING FRIENDSHIP RD
TYPICAL SECTION


℄ FM 1385
PROP ROW (150' USUAL)
25' USUAL BORDER
50'
50'
25' USUAL BORDER
29' ROADWAY
42' MEDIAN
29' ROADWAY
FOC
14' LANE
12' LANE
12' LANE ULT.
18'
SDWLK
EXIST ROW
PROP ROW
2.0%
0.5'
4:1 (USUAL)
3:1 (MAX)
1.5%
PGL

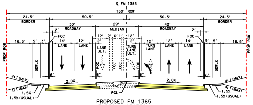
PROPOSED FM 1385
TYPICAL SECTION
STA 635+00 TO 659+06
STA 689+23 TO 713+00


℄ FRIENDSHIP RD
PROP ROW (120' USUAL)
20' USUAL BORDER
40'
40'
20' USUAL BORDER
VARIES
14' LANE
12' LANE
18' MEDIAN
SDWLK
FOC
2.0%
PROP ROW
4:1 (USUAL)
4:1 (MAX)
1.5%
PGL

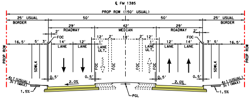
PROPOSED FRIENDSHIP RD
TYPICAL SECTION


℄ FM 1385
150' ROW
24.5' BORDER
50.5'
50.5'
24.5' BORDER
42' ROADWAY
29' MEDIAN
30' ROADWAY
TURN LANE
TURN LANE ULT.
LANE ULT.
14' LANE
12' LANE
FOC
SDWLK
6"
2.0%
EXIST ROW
PROP ROW
4:1 (MAX)
1.5%
1.5% (USUAL)
PGL

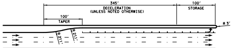
PROPOSED FM 1385
TYPICAL SECTION
STA 638+11 TO 642+56
STA 670+06 TO 674+51
STA 696+61 TO 701+06


℄ FM 1385
150' ROW
24.5' BORDER
50.5'
50.5'
24.5' BORDER
30' ROADWAY
29' MEDIAN
42' ROADWAY
TURN LANE
LANE ULT.
14' LANE
12' LANE
FOC
SDWLK
6"
2.0%
PROP ROW
4:1 (MAX)
1.5%
1.5% (USUAL)
PGL

PROPOSED FM 1385
TYPICAL SECTION
STA 663+50 TO 667+95
STA 690+86 TO 695+31

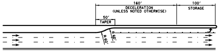

℄ FM 1385
PROP ROW (150' USUAL)
25' USUAL BORDER
50'
50'
25' USUAL BORDER
29' ROADWAY
42' MEDIAN
29' ROADWAY
FOC
14' LANE
12' LANE
12' LANE ULT.
18'
SDWLK
PROP ROW
2.0%
0.5'
4:1 (USUAL)
3:1 (MAX)
1.5%
PGL

PROPOSED FM 1385
TYPICAL SECTION
STA 659+06 TO 689+23


345'
DECELERATION
(UNLESS NOTED OTHERWISE)
100'
STORAGE
100'
TAPER
R 3'

TYPICAL LEFT-TURN BAY DETAILS (45 MPH)

N.T.S


160'
DECELERATION
(UNLESS NOTED OTHERWISE)
100'
STORAGE
50'
TAPER

TYPICAL LEFT-TURN BAY DETAILS (30 MPH)

N.T.S

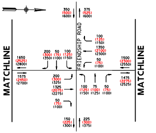
PROP ID	NAME	MAILING ADDRESS
EB1028	MCGEE, JOHN G & SIDNEY JOAN T	PO BOX 501
EB1029	MCGEE, JOHN G & SIDNEY JOAN T	PO BOX 501
EB1030	ERWIN, DOROTHY F LIFE ESTATE	10182 FM 1385
EB1031	GENE MCCUTCHIN LTD III	PO BOX 802043
EB1032	RODRIGUEZ, JOSE & VEGA, SONIA	11051 FRIENDSHIP RD
EB1033	LOPEZ, CARLOS D & DUARTE, MARIA E	10720 FM 1385
EB1034	SMITH, ROBERT & GRACE	10732 FM 1385
EB1035	GEIGER, TAMMYLEE	10880 FM 1385
EB1036	ELAND FARMS LP	16400 DALLAS PKWY STE 100
WB1082	GENE MCCUTCHIN LTD III	PO BOX 802043
WB1083	GENE MCCUTCHIN LTD III	PO BOX 802043
WB1084	KINNEY, MICHAEL E & JENNIFER R	10935 FM 1385
WB1085	LUTHER, SHELLEY A	10841 FM 1385
WB1086	LUTHER, SHELLEY A	10841 FM 1385
WB1087	STINSON, RYAN SCOTT	13507 FRIENDSHIP RD
WB1088	PRICE FAMILY PARTNERS LTD	10092 STILES RD
WB1089	BROOKS, RETHA FERN	108 W LORENE ST
WB1090	SHEARER, RICKY	10079 FM 1385

CURVE DATA TABLE

CURVE NO.	DELTA	DEGREE	TANGENT	LENGTH	RADUIS	PI STA	PC STA	PT STA
FM1385-106	1° 02' 00.00" (LT)	0° 45' 50.20"	67.63	135.26	7500	644+67.24	643+99.61	645+34.87
FM1385-107	1° 43' 00.00" (RT)	0° 45' 50.20"	112.36	224.71	7500	652+15.83	651+03.46	653+28.18
FM1385-108	3° 19' 57.07" (LT)	3° 49' 10.99"	43.63	87.25	1500	659+49.43	659+05.79	659+93.04
FM1385-109	3° 37' 03.63" (RT)	3° 49' 10.99"	47.37	94.71	1500	665+28.37	665+75.74	666+23.08
FM1385-110	1° 50' 32.01" (RT)	3° 49' 10.99"	24.12	48.23	1500	683+95.12	683+71.01	684+19.24
FM1385-111	5° 35' 29.06" (LT)	3° 49' 10.99"	73.25	146.38	1500	688+49.96	687+76.71	689+23.09
PRFRIENDSHIP-1	9° 19' 01.79" (RT)	5° 27' 24.27"	85.56'	170.75'	1050'	103+85.56	103+00.00	104+70.75
PRFRIENDSHIP-2	9° 51' 27.76" (LT)	5° 27' 24.27"	90.55'	180.65'	1050'	105+61.30	104+70.75	106+51.40
PRFRIENDSHIP-3	9° 28' 56.56" (LT)	5° 27' 24.27"	87.09'	173.77'	1050'	112+47.23	111+60.15	113+33.92
PRFRIENDSHIP-4	9° 28' 56.56" (RT)	5° 27' 24.27"	87.09'	173.77'	1050'	114+21.01	113+33.92	115+07.70

TRAFFIC PROJECTIONS BASED ON NCTCOG TDM AND CORRIDOR INFORMATION PACKET PROVIDED BY TPP. UPDATED MARCH, 2020

LEGEND
(XXXX) 2025 ADT
(XXXX) 2045 ADT
[XXXX] 2055 ADT

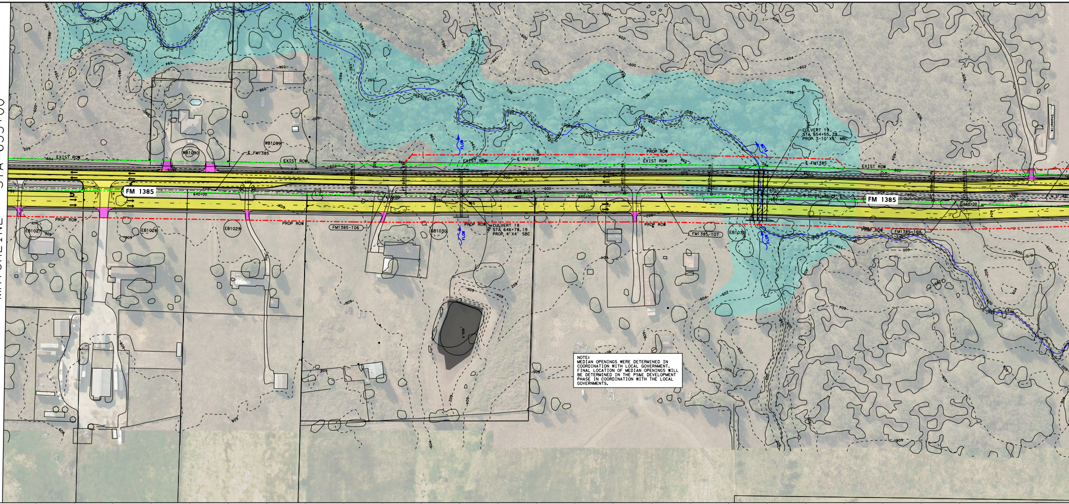

MATCHLINE
FRIENDSHIP ROAD
MATCHLINE
350
(500)
(600)
375
(525)
(600)
100
(125)
(150)
1350
(2100)
(2300)
50
(75)
(100)
200
(300)
(350)
50
(75)
(100)
100
(125)
(150)
1650
(2525)
(2800)
1500
(2300)
(2550)
1575
(2450)
(2700)
200
(300)
(325)
1325
(2075)
(2275)
50
(75)
(100)
100
(125)
(150)
75
(100)
(125)
50
(75)
(100)
1475
(2275)
(2525)
150
(225)
(300)
225
(300)
(375)

TRAFFIC DIAGRAM - FM 1385

N.T.S.

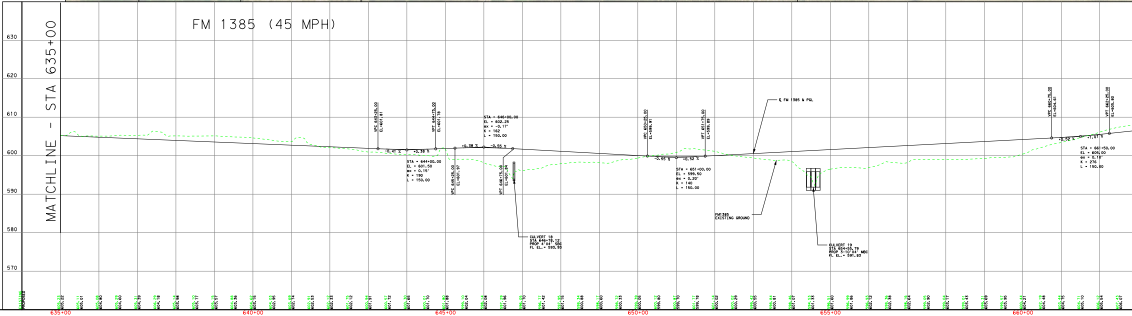
PRELIMINARY

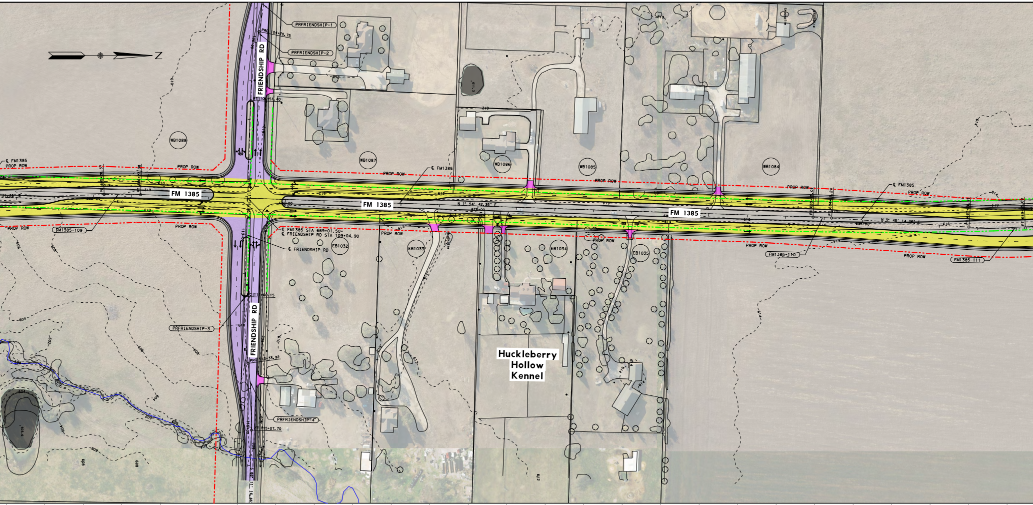
NOT INTENDED FOR CONSTRUCTION OR BIDDING PURPOSES

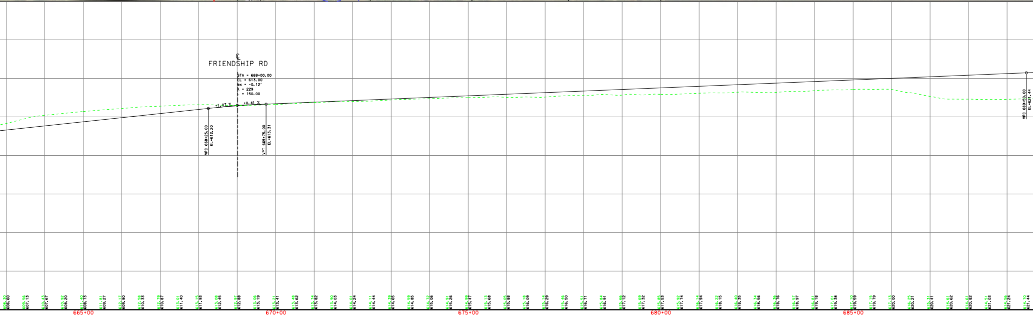

MATCHLINE - STA 635+00
FM 1385
EXIST ROW
PROP ROW
℄ FM1385
WB1090
WB1099
EB1027
EB1028
EB1029
EB1030
EB1031
FM1385-106
FM1385-107
FM1385-108
FLOW
CULVERT 18
STA 646+78.19
PROP 4'X4' SBC
CULVERT 19
STA 654+55.79
PROP 3-10'X5' MBC
640+00
650+00
655+00
660+00
Stockpile

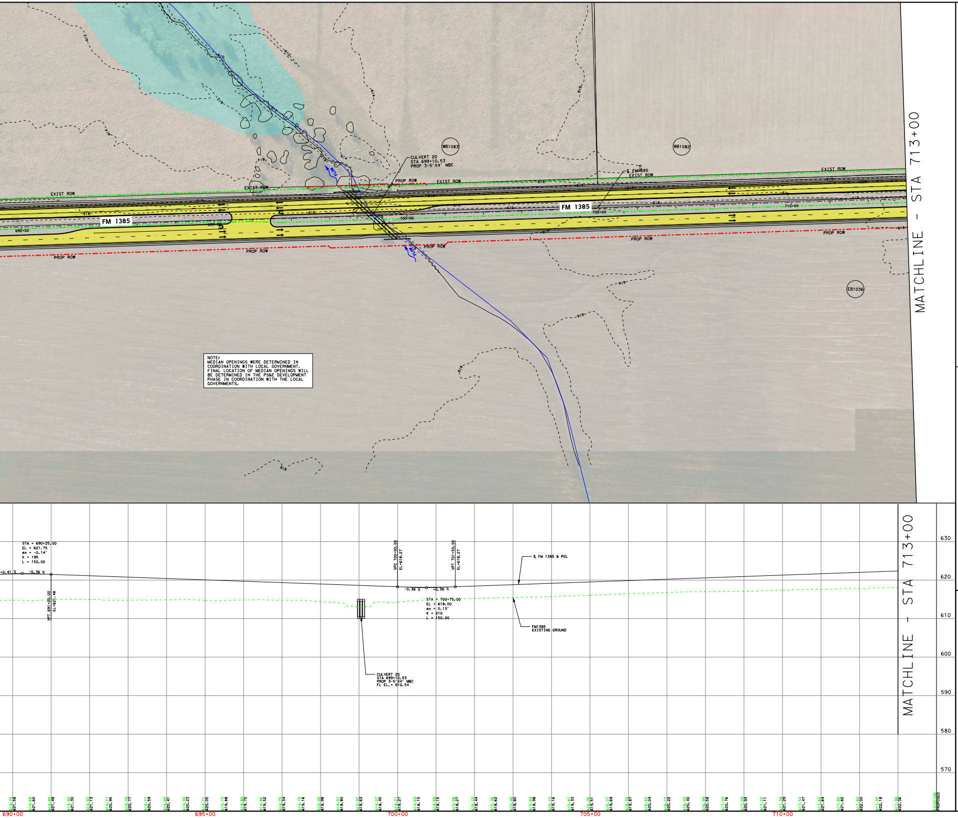
NOTE:
MEDIAN OPENINGS WERE DETERMINED IN COORDINATION WITH LOCAL GOVERNMENT. FINAL LOCATION OF MEDIAN OPENINGS WILL BE DETERMINED IN THE PS&E DEVELOPMENT PHASE IN COORDINATION WITH THE LOCAL GOVERNMENTS.

FM 1385 (45 MPH)


MATCHLINE - STA 635+00
630
620
610
600
590
580
570
VPC 643+25.00
EL=601.81
VPT 644+75.00
EL=601.78
-0.41 %
+0.38 %
STA = 644+00.00
EL = 601.50
ex = 0.15'
K = 190
L = 150.00
VPC 645+25.00
EL=601.97
+0.38 %
-0.55 %
STA = 646+00.00
EL = 602.25
ex = -0.17'
K = 162
L = 150.00
VPT 646+75.00
EL=601.84
CULVERT 18
STA 646+78.12
PROP 4'X4' SBC
FL EL.= 593.93
VPC 650+25.00
EL=599.91
VPT 651+75.00
EL=599.89
-0.55 %
+0.52 %
STA = 651+00.00
EL = 599.50
ex = 0.20'
K = 140
L = 150.00
℄ FM 1385 & PGL
FM1385
EXISTING GROUND
CULVERT 19
STA 654+55.79
PROP 3-10'X4' MBC
FL EL.= 591.83
VPC 660+75.00
EL=604.61
VPT 662+25.00
EL=605.80
+0.52 %
+1.07 %
STA = 661+50.00
EL = 605.00
ex = 0.10'
K = 276
L = 150.00
EXISTING
PROPOSED
635+00
640+00
645+00
650+00
655+00
660+00


Z
FRIENDSHIP RD
PRFRIENDSHIP-1
PRFRIENDSHIP-2
PRFRIENDSHIP-3
PRFRIENDSHIP-4
FM 1385
℄ FM1385
PROP ROW
FM1385-109
FM1385-110
FM1385-111
WB1088
WB1087
WB1086
WB1085
WB1084
EB1032
EB1033
EB1034
EB1035
℄ FM1385 STA 669+01.50=
℄ FRIENDSHIP RD STA 109+04.90
℄ FRIENDSHIP RD
N 1° 54' 42.35" E
Huckleberry
Hollow
Kennel


℄
FRIENDSHIP RD
STA = 669+00.00
EL = 613.00
ex = -0.12'
K = 229
L = 150.00
+1.07 %
+0.41 %
VPC 668+25.00
EL=612.20
VPT 669+75.00
EL=613.31
VPC 689+50.00
EL=621.44
665+00
670+00
675+00
680+00
685+00


MATCHLINE - STA 713+00
FM 1385
EXIST ROW
PROP ROW
CULVERT 20
STA 699+10.53
PROP 3-5'X4' MBC
℄ FM1385
EXIST ROW
WB1083
WB1082
EB1036
690+00
695+00
700+00
705+00
710+00
STA = 690+25.00
EL = 621.75
ex = -0.14'
K = 195
L = 150.00
+0.41 %
-0.36 %
VPT 691+00.00
EL=621.48
VPC 700+00.00
EL=618.27
VPT 701+50.00
EL=618.27
-0.36 %
+0.36 %
STA = 700+75.00
EL = 618.00
ex = 0.13'
K = 210
L = 150.00
℄ FM 1385 & PGL
FM1385
EXISTING GROUND
CULVERT 20
STA 699+10.53
PROP 3-5'X4' MBC
FL EL.= 610.54
630
620
610
600
590
580
570
EXISTING
PROPOSED

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.

Texas Department of Transportation®

DALLAS DISTRICT
DESIGN SCHEMATIC
MOHAMED K. BUR, P.E.
DISTRICT ENGINEER
DENTON COUNTY

FM 1385

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CSJ: 1315-01-030

FUNCTIONAL CLASS: URBAN MAJOR COLLECTOR

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30 mph (CROSS-ST)

PROJECT LENGTH: 12.03 MILES

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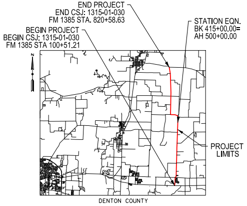
END PROJECT
END CSJ: 1315-01-030
FM 1385 STA. 820+58.63
BEGIN PROJECT
BEGIN CSJ: 1315-01-030
FM 1385 STA 100+51.21
STATION EQN.
BK 415+00.00=
AH 500+00.00
PROJECT LIMITS
N

DENTON COUNTY
LOCATION MAP
N.T.S.

SEPTEMBER 2020

HORIZ SCALE: 1"=100'
0 50 100 150 200
VERTICAL SCALE: 1"=10'
0 5 10 15 20

HOWARD COLUMBUS GIBBS III, P.E.
(TX PE NO. 100239)

TIMOTHY M. NESBITT, P.E.
(TX PE NO. 66648)

DATE SUBMITTED: 9/11/2020
DATE APPROVED:
DATE REVISED:

NOT INTENDED FOR CONSTRUCTION, BIDDING, OR PERMIT PURPOSES

ROLL 7 OF 9

Lina T. Ramey & Associates, Inc.
3320 Belt Line Rd
Farmers Branch, Texas 75234
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