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

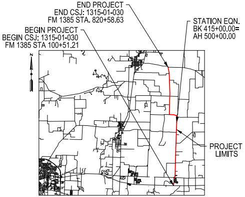
FUNCTIONAL CLASS: URBAN MAJOR COLLECTOR

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 9 OF 9

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

CIVIL ASSOCIATES, INC.
CAI
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:

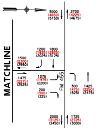
1. EXISTING FEATURES WERE NOT FIELD SURVEYED. SCHEMATICS ARE BASED ON EXISTING PLANS AND AERIAL SURVEYS DATED APRIL 2020 AND RECORD PLANS
2. FINAL LOCATION OF MEDIAN OPENINGS WILL BE DETERMINED IN THE PS&E DEVELOPMENT PHASE IN COORDINATION WITH THE LOCAL GOVERNMENTS.
3. SUPERELEVATION AXIS OF ROTATION 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).

PROP ID	NAME	MAILING ADDRESS
EB1039	L1719 LLC	12900 Preston Rd Ste 1117
EB1040	MCCUTCHIN, GENE P	14833 MIDWAY RD STE 200
EB1052	PETROVEN INC	5949 SHERRY LN STE 835
EB1053	PETROVEN INC	5949 SHERRY LN STE 835
EB1054	PETROVEN INC	5949 SHERRY LN STE 835
EB1055	PETROVEN INC	5949 SHERRY LN STE 835
EB1056	COULTER, DONALD & PHYLLIS	13595 FM 1385
EB1057	COULTER, DONALD & PHYLLIS	13595 FM 1385
WB1043	KIRK, SENNETT,III, TRS, CLAYTON D SKILES TRUST & CLAIRE	PO BOX 2451
WB1044	KIRK, SENNETT,III, TRS, CLAYTON D SKILES TRUST & CLAIRE	PO BOX 2451
WB1046	KIRK, SENNETT,III, TRS, CLAYTON D SKILES TRUST & CLAIRE	PO BOX 2451
WB1058	COULTER, DONALD & PHYLLIS	13595 FM 1385
WB1059	PATTERSON, WESLEY JOHN	301 W BROAD ST
WB1060	MARQUEZ, JOHNNY	13447 FM 1385
WB1061	GOLDEN RIDGE LLC	10929 MORRO BAY LN
WB1062	CONFIDENTIAL OWNER	13265 FM 1385
WB1063	DURAN, JOSEPH M & PAMELA K	13215 FM 1385
WB1064	HALSELL, FURD III & JAMIE C	13161 FM 1385
WB1065	MCCAIN, PAUL & PAULA	13131 FM 1385
WB1066	SHAW, ANDREW K & CHLADEK, MARISSA G	13085 FM 1385

LEGEND

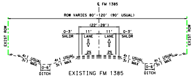
(XXXX) 2025 ADT
[XXXX] 2045 ADT
[XXXX] 2055 ADT

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

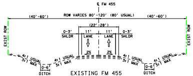

MATCHLINE
FM 455
3000
(4650)
[5150]
2700
(4225)
[4675]
1500
(2300)
[2550]
1200
(1825)
[2025]
1800
(2825)
[3125]
1475
(2275)
[2525]
1275
(1975)
[2200]
200
(300)
[325]
300
(475)
[525]
1425
(2250)
[2475]
2000
(3125)
[3450]
1725
(2725)
[3000]

TRAFFIC DIAGRAM - FM 1385

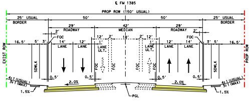
N.T.S.


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

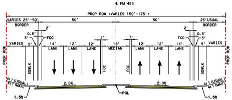
EXISTING FM 1385
TYPICAL SECTION


℄ FM 455
(40'-60')
ROW VARIES 80'-120' (80' USUAL)
EXIST ROW
(22'-28')
0-3' SHLDR
11' LANE
2%
4:1 USUAL 3:1 MAX
0-6' DITCH

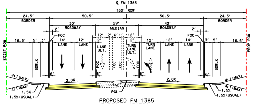
EXISTING FM 455
TYPICAL SECTION


℄ FM 1385
PROP ROW (150' USUAL)
25' USUAL BORDER
50'
29' ROADWAY
42' MEDIAN
16.5'
14' LANE
12' LANE
LANE ULT.
SDWLK
EXIST ROW
PROP ROW
2.0%
4:1 (USUAL) 3:1 (MAX)
1.5%
PGL

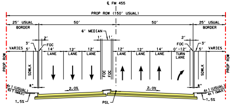
PROPOSED FM 1385
TYPICAL SECTION
STA 791+00 TO 815+06


℄ FM 455
PROP ROW (VARIES 150'-175')
VARIES 25'-50' BORDER
50'
25' USUAL BORDER
VARIES
14' LANE
12' LANE
18' MEDIAN
FOC
SDWLK
PROP ROW
2.0%
4:1 (USUAL) 3:1 (MAX)
1.5%
PGL

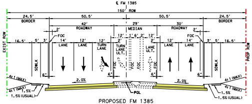
PROPOSED FM 455
TYPICAL SECTION
STA 113+00 TO 120+59
STA 131+20 TO 132+20


℄ FM 1385
150' ROW
24.5' BORDER
50.5'
30' ROADWAY
29' MEDIAN
42' ROADWAY
16.5'
14' LANE
12' LANE
LANE ULT.
TURN LANE ULT.
SDWLK
EXIST ROW
PROP ROW
2.0%
4:1 (MAX)
1.5%
1.5% (USUAL)
PGL

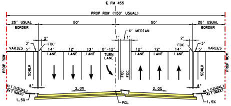
PROPOSED FM 1385
TYPICAL SECTION
STA 800+36 TO 804+81
STA 815+06 TO 819+51


℄ FM 455
PROP ROW (150' USUAL)
25' USUAL BORDER
50'
6' MEDIAN
VARIES
14' LANE
12' LANE
0'-12' TURN LANE
FOC
SDWLK
PROP ROW
2.0%
4:1 (USUAL) 3:1 (MAX)
1.5%
PGL

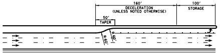
PROPOSED FM 455
TYPICAL SECTION
STA 120+59 TO 124+92


℄ FM 1385
150' ROW
24.5' BORDER
50.5'
42' ROADWAY
29' MEDIAN
30' ROADWAY
16.5'
14' LANE
12' LANE
TURN LANE
TURN LANE ULT.
LANE ULT.
SDWLK
EXIST ROW
PROP ROW
2.0%
4:1 (MAX)
1.5%
1.5% (USUAL)
PGL

PROPOSED FM 1385
TYPICAL SECTION
STA 806+11 TO 810+56

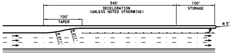

℄ FM 455
PROP ROW (150' USUAL)
25' USUAL BORDER
50'
6' MEDIAN
VARIES
14' LANE
12' LANE
0'-12' TURN LANE
FOC
SDWLK
PROP ROW
2.0%
4:1 (USUAL) 3:1 (MAX)
1.5%
PGL

PROPOSED FM 455
TYPICAL SECTION
STA 126+75 TO 131+20


160' DECELERATION (UNLESS NOTED OTHERWISE)
100' STORAGE
50' TAPER
R 60'

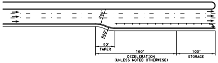
TYPICAL LEFT-TURN BAY DETAILS (30 MPH)

N.T.S


345' DECELERATION (UNLESS NOTED OTHERWISE)
100' STORAGE
100' TAPER
R 211'
R 3'

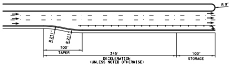
TYPICAL LEFT-TURN BAY DETAILS (45 MPH)

N.T.S


R60'
50' TAPER
160' DECELERATION (UNLESS NOTED OTHERWISE)
100' STORAGE

TYPICAL RIGHT-TURN BAY DETAILS (30 MPH)

N.T.S


R 9'
R 211'
100' TAPER
345' DECELERATION (UNLESS NOTED OTHERWISE)
100' STORAGE

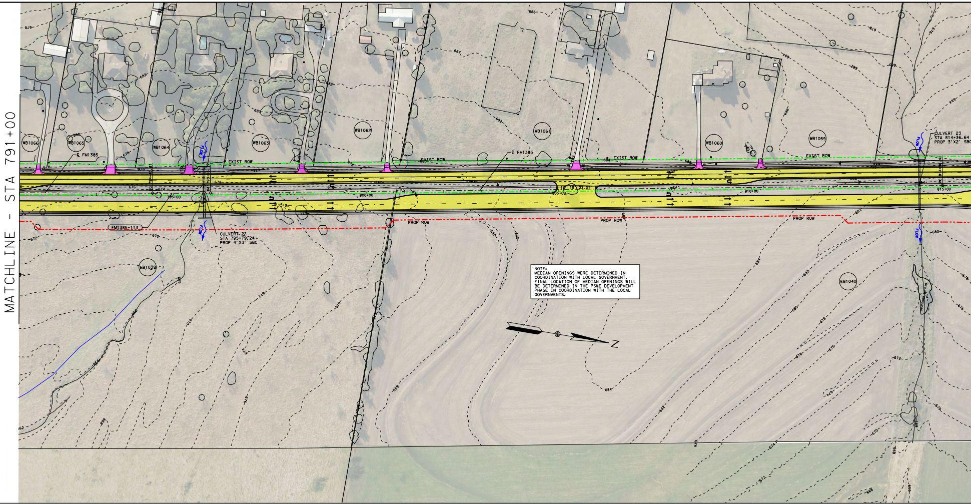
TYPICAL RIGHT-TURN BAY DETAILS (45 MPH)

N.T.S

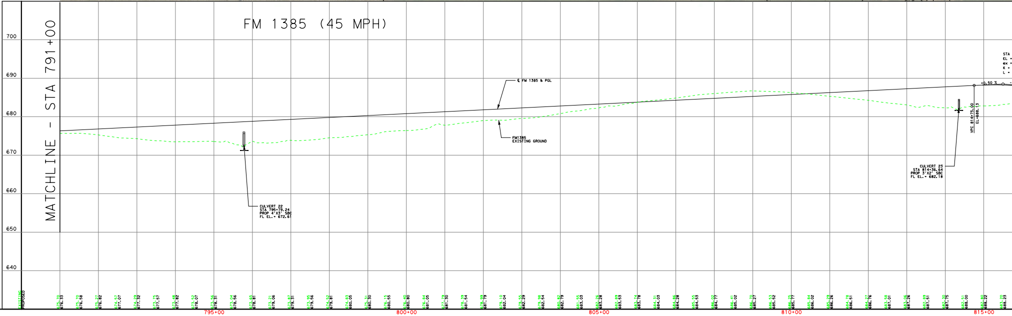
CURVE DATA TABLE

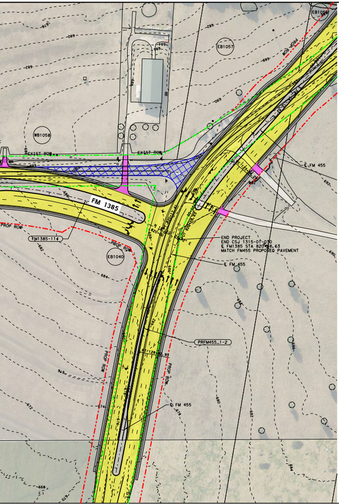
CURVE NO.	DELTA	DEGREE	TANGENT	LENGTH	RADUIS	PI STA	PC STA	PT STA
FM1385-113	0° 51' 43.37" (LT)	0° 34' 22.65"	75.23	150.46	10000	795+20.54	794+45.31	795+95.77
FM1385-114	28° 25' 47.19" (RT)	5° 27' 24.27"	265.98	521.00	1050	817+62.39	814+96.41	820+17.41
PRFM455_1-1	30° 37' 50.33" (RT)	5° 27' 24.27"	287.55'	561.34'	1050'	116+45.16	113+57.61	119+18.94
PRFM455_1-2	30° 29' 01.22" (LT)	5° 27' 24.27"	286.10'	558.64'	1050'	126+20.39	123+34.29	128+92.93

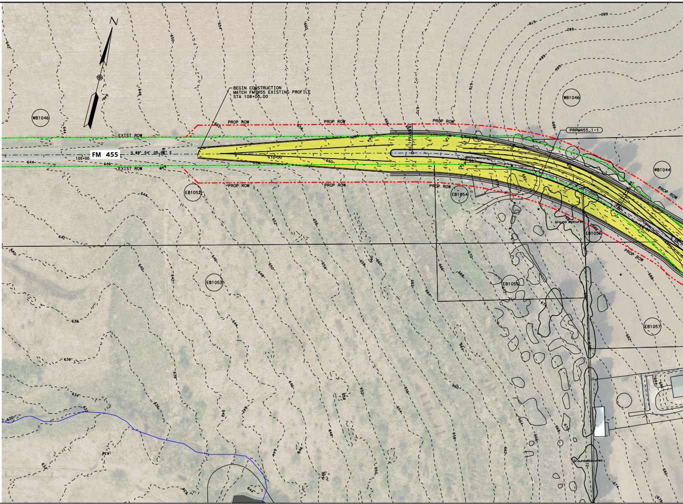
PRELIMINARY
NOT INTENDED FOR CONSTRUCTION OR BIDDING PURPOSES


MATCHLINE - STA 791+00
℄ FM1385
EXIST ROW
PROP ROW
WB1066
WB1065
WB1064
WB1063
WB1062
WB1061
WB1060
WB1059
EB1039
EB1040
FM1385-113
CULVERT 22
STA 795+79.24
PROP 4'X3' SBC
CULVERT 23
STA 814+36.64
PROP 3'X2' SBC
FLOW
795+00
800+00
805+00
810+00
815+00
N

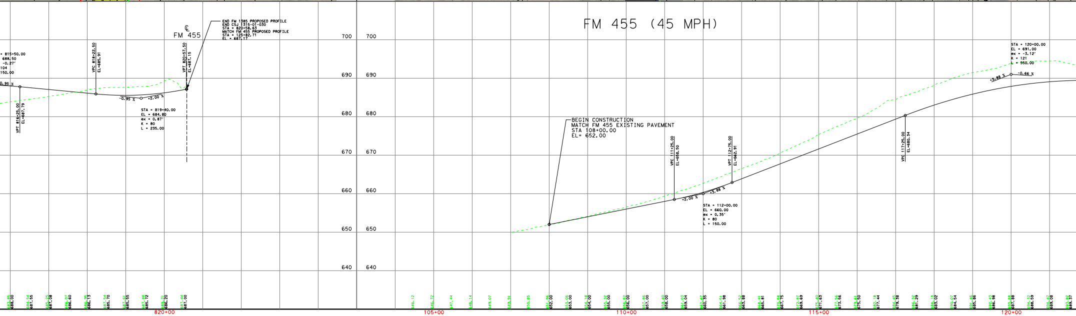
NOTE:
MEDIAN OPENINGS WERE DETERMINED IN COORDINATION WITH LOCAL GOVERNMENT. FINAL LOCATION OF MEDIAN OPENINGS WILL BE DETERMINED IN THE PS&E DEVELOPMENT PHASE IN COORDINATION WITH THE LOCAL GOVERNMENTS.

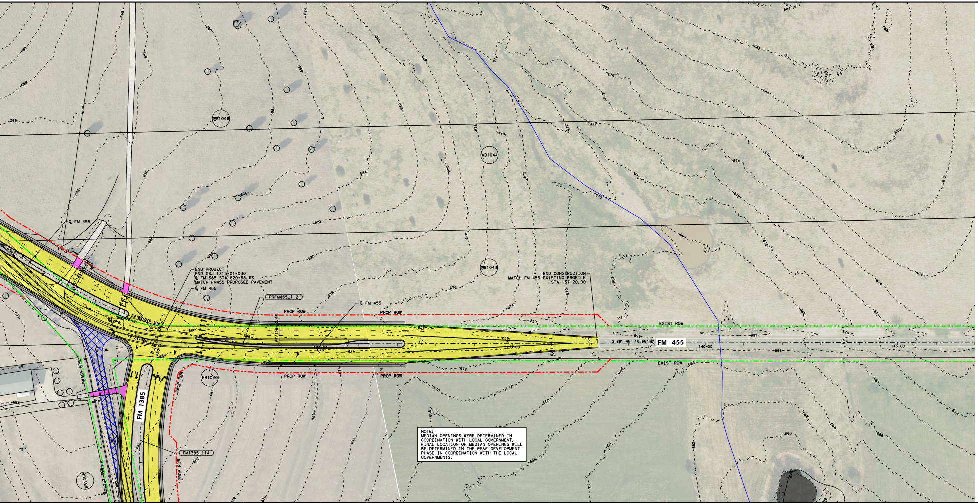

FM 1385 (45 MPH)
MATCHLINE - STA 791+00
700
690
680
670
660
650
640
℄ FM 1385 & PGL
FM1385 EXISTING GROUND
CULVERT 22
STA 795+79.24
PROP 4'X3' SBC
FL EL.= 672.61
CULVERT 23
STA 814+36.64
PROP 3'X2' SBC
FL EL.= 682.18
VPC 814+75.00
EL=688.13
+0.50 %
STA
EL =
ex =
K =
L =
EXISTING
PROPOSED
795+00
800+00
805+00
810+00
815+00


EB1056
EB1057
WB1058
EXIST ROW
EXIST ROW
FM 1385
FM1385-114
PROP ROW
PROP ROW
EB1040
PROP ROW
PROP ROW
℄ FM 455
END PROJECT
END CSJ 1315-01-030
℄ FM1385 STA 820+58.63
MATCH FM455 PROPOSED PAVEMENT
℄ FM 455
PRFM455_1-2
℄ FM 455
PROP ROW


N
WB1046
BEGIN CONSTRUCTION
MATCH FM 455 EXISTING PROFILE
STA 108+00.00
PROP ROW
PROP ROW
PROP ROW
EXIST ROW
FM 455
S 89° 54' 05.38" E
105+00
110+00
EXIST ROW
PROP ROW
PROP ROW
PROP ROW
EB1052
EB1054
PRFM455_1-1
WB1046
WB1044
PROP ROW
EB1056
PROP ROW
EB1053
EB1055
EB1057

FM 455 (45 MPH)


℄
FM 455
END FM 1385 PROPOSED PROFILE
END CSJ 1315-01-030
STA = 820+58.63
MATCH FM 455 PROPOSED PROFILE
STA = 125+82.71
EL = 687.17
= 815+50.00
688.50
-0.27'
104
150.00
0.95 %
VPT 816+25.00
EL=687.79
VPC 818+22.50
EL=685.91
-0.95 %
+2.00 %
STA = 819+40.00
EL = 684.80
ex = 0.87'
K = 80
L = 235.00
VPT 820+57.50
EL=687.15
BEGIN CONSTRUCTION
MATCH FM 455 EXISTING PAVEMENT
STA 108+00.00
EL= 652.00
VPC 111+25.00
EL=658.50
+2.00 %
+3.88 %
STA = 112+00.00
EL = 660.00
ex = 0.35'
K = 80
L = 150.00
VPT 112+75.00
EL=662.91
VPC 117+25.00
EL=680.34
STA = 120+00.00
EL = 691.00
ex = -3.12'
K = 121
L = 550.00
+3.88 %
-0.66 %
700
690
680
670
660
650
640
820+00
105+00
110+00
115+00
120+00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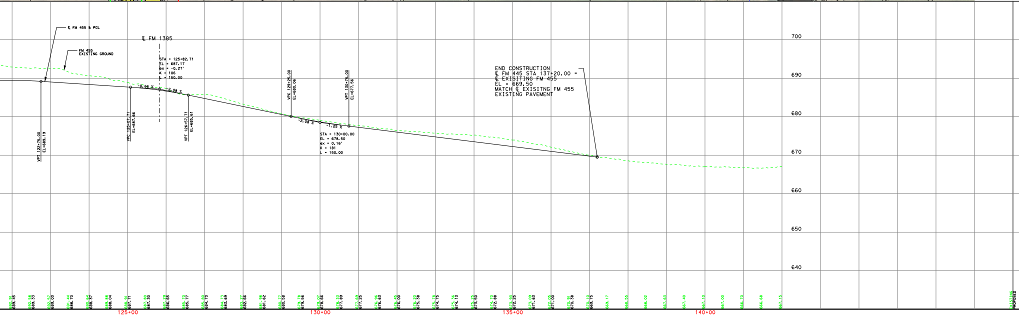
END CSJ 1315-01-030
℄ FM1385 STA 820+58.63
MATCH FM455 PROPOSED PAVEMENT
℄ FM 455
PRFM455_1-2
℄ FM 455
PROP ROW
PROP ROW
PROP ROW
PROP ROW
END CONSTRUCTION
MATCH FM 455 EXISTING PROFILE
STA 137+20.00
EXIST ROW
EXIST ROW
FM 455
140+00
145+00
FM 1385
FM1385_1I4
WB1046
WB1044
WB1043
EB1040
WB1050

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

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

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ROLL 3: NORTH OF WINN RIDGE RD TO RANCHETTE RD - STA 245+00 TO STA 322+00
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ROLL 5: NORTH OF FM 428 WEST TO MUSTANG CREEK - STA 397+00 TO STA 558+00
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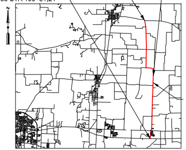
ROLL 8: NORTH OF FRIENDSHIP RD TO STRITTMATTER RD - STA 713+00 TO STA 791+00
ROLL 9: STRITTMATTER RD TO FM 455 - STA 791+00 TO STA 820+58.63



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

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 9 OF 9

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

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

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