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

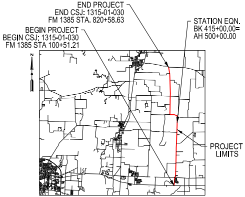
FUNCTIONAL CLASS: URBAN MAJOR COLLECTOR

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: MUSTANG CREEK TO NORTH OF JOE ALLEN RD - STA 558+00 TO STA 635+00
ROLL 7: NORTH OF JOE ALLEN RD TO NORTH OF FRIENDSHIP RD - STA 635+00 TO STA 713+00
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
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)

DATE SUBMITTED
9/11/2020

DATE APPROVED

DATE REVISED

NOT INTENDED FOR
CONSTRUCTION,
BIDDING, OR
PERMIT PURPOSES

ROLL 3 OF 9

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

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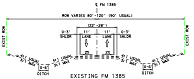
LEGEND:

🟨	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

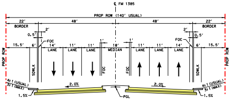
NOTES:

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).



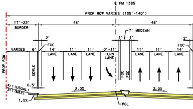
℄ FM 1385
ROW VARIES 80'-120' (90' USUAL)
(22'-28')
0-3' SHLDR
11' LANE
11' LANE
0-3' SHLDR
2%
2%
EXIST ROW
EXIST ROW
4:1 USUAL 3:1 MAX
0-6' DITCH

EXISTING FM 1385
TYPICAL SECTION



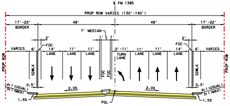
℄ FM 1385
PROP ROW (140' USUAL)
22' BORDER
48'
48'
22' BORDER
2'
0.5'
FOC
15.5'
6'
14' LANE
11' LANE
11' LANE
1'
18' MEDIAN
1'
11' LANE
11' LANE
14' LANE
6'
15.5'
PROP ROW
SDWLK
FOC
FOC
SDWLK
PROP ROW
4:1 (USUAL)
3:1 (MAX)
1.5%
2.0%
2.0%
PGL

PROPOSED FM 1385
TYPICAL SECTION
STA 253+47 TO 256+43
STA 266+25 TO 266+67
STA 274+97 TO 275+08
STA 300+83 TO 309+46



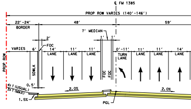
℄ FM 1385
PROP ROW VARIES (135'-140')
17'-22' BORDER
48'
48'
7' MEDIAN
2'
FOC
VARIES
6'
14' LANE
11' LANE
11' LANE
0'-11' TURN LANE
1'
1'
11' LANE
11' LANE
14' LANE
PROP ROW
SDWLK
FOC
FOC
0.5'
4:1 (USUAL)
3:1 (MAX)
1.5%
2.0%
2.0%
PGL

PROPOSED FM 1385
TYPICAL SECTION
STA 248+69 TO 253+47
STA 261+81 TO 266+25
STA 272+18 TO 274+97
STA 279+06 TO 281+28
STA 287+26 TO 291+36
STA 296+35 TO 300+83
STA 313+61 TO 317+67



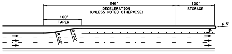
℄ FM 1385
PROP ROW VARIES (130'-140')
17'-22' BORDER
48'
48'
17'-22' BORDER
7' MEDIAN
2'
FOC
VARIES
6'
14' LANE
11' LANE
11' LANE
1'
1'
0'-11' TURN LANE
11' LANE
11' LANE
14' LANE
6'
VARIES
PROP ROW
SDWLK
FOC
FOC
SDWLK
PROP ROW
0.5'
4:1 (USUAL)
3:1 (MAX)
1.5%
2.0%
2.0%
PGL

PROPOSED FM 1385
TYPICAL SECTION
STA 242+79 TO 247+28
STA 256+43 TO 260+87
STA 266+67 TO 271+16
STA 275+08 TO 277+86
STA 281+28 TO 286+23
STA 291+36 TO 295+84
STA 309+46 TO 312+76



℄ FM 1385
PROP ROW VARIES (140'-146')
22'-24' BORDER
48'
59'
7' MEDIAN
2'
FOC
VARIES
6'
14' LANE
11' LANE
11' LANE
1'
1'
0'-11' TURN LANE
11' LANE
11' LANE
14' LANE
PROP ROW
SDWLK
FOC
FOC
0.5'
4:1 (USUAL)
3:1 (MAX)
1.5%
2.0%
2.0%
PGL

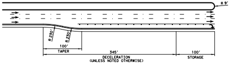
PROPOSED FM 1385
TYPICAL SECTION
STA 317+67 TO 322+15



345'
DECELERATION
(UNLESS NOTED OTHERWISE)
100'
STORAGE
100'
TAPER
R 3'
R 230'
R 230'

TYPICAL LEFT-TURN BAY DETAILS (45 MPH)
N.T.S

CURVE NO.	DELTA
FM1385-8	0° 53' 00.00" (LT)
FM1385-9	2° 02' 00.00" (RT)

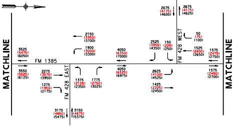


R 9'
R 230'
R 230'
100'
TAPER
345'
DECELERATION
(UNLESS NOTED OTHERWISE)
100'
STORAGE

TYPICAL RIGHT-TURN BAY DETAILS (45 MPH)
N.T.S

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

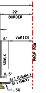
LEGEND
(XXXX) 2025 ADT
(XXXX) 2045 ADT
[XXXX] 2055 ADT

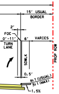


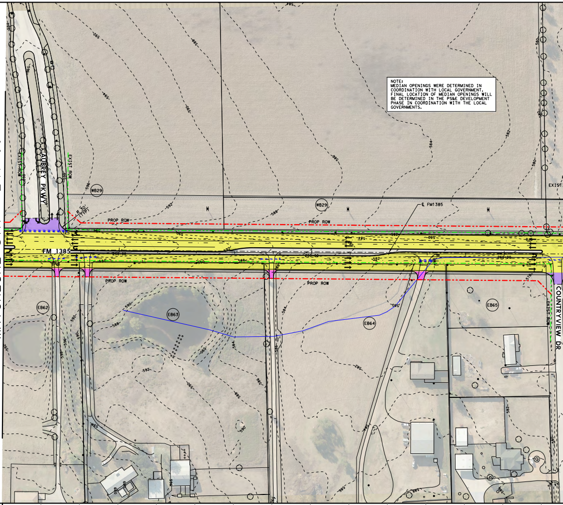
MATCHLINE
FM 1385
FM 428 EAST
FM 428 WEST
MATCHLINE
3525 (5475) (6050)
3550 (5525) (6125)
2275 (3575) (3950)
1275 (1950) (2175)
3175 (4950) (5475)
3150 (4875) (5375)
2150 (3350) (3700)
1900 (3000) (3300)
1375 (2125) (2350)
1775 (2750) (3025)
4050 (6350) (7000)
4050 (6325) (6975)
2675 (4175) (4600)
2675 (4175) (4625)
2525 (3950) (4350)
150 (225) (250)
50 (75) (100)
1525 (2400) (2650)
2625 (4100) (4525)
1425 (2225) (2450)
1575 (2475) (2750)
1575 (2450) (2700)

TRAFFIC DIAGRAM - FM 1385
N.T.S.

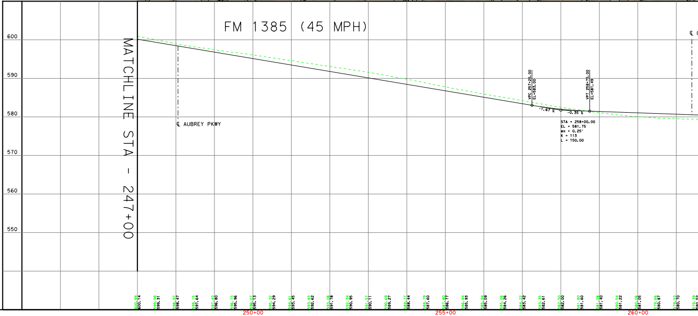
PRELIMINARY
NOT INTENDED FOR CONSTRUCTION
OR BIDDING PURPOSES


22'
BORDER
6'
VARIES
SDWLK
PROP ROW
0.5'
4:1 (USUAL)
3:1 (MAX)
1.5%


15' USUAL
BORDER
2'
FOC
0'-11'
TURN
LANE
6'
VARIES
SDWLK
PROP ROW
0.5'
4:1 (USUAL)
3:1 (MAX)
1.5%


Z
MATCHLINE STA - 247+00
AUBREY PKWY
EXIST ROW
R 50' (TYP)
PROP ROW
FM 1385
℄ FM1385
WB29
EB62
EB63
EB64
EB65
COUNTRYVIEW DR
EXIST

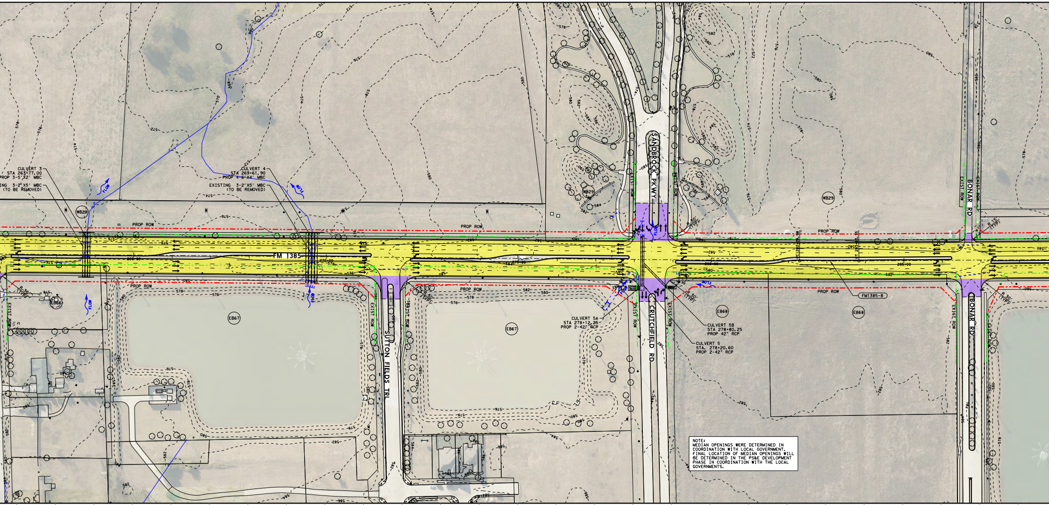
NOTE:
MEDIAN OPENINGS WERE DETERMINED IN COORDINATION WITH LOCAL GOVERNMENT. FINAL LOCATION OF MEDIAN OPENINGS WILL BE DETERMINED IN THE PS&E DEVELOPMENT PHASE IN COORDINATION WITH THE LOCAL GOVERNMENTS.



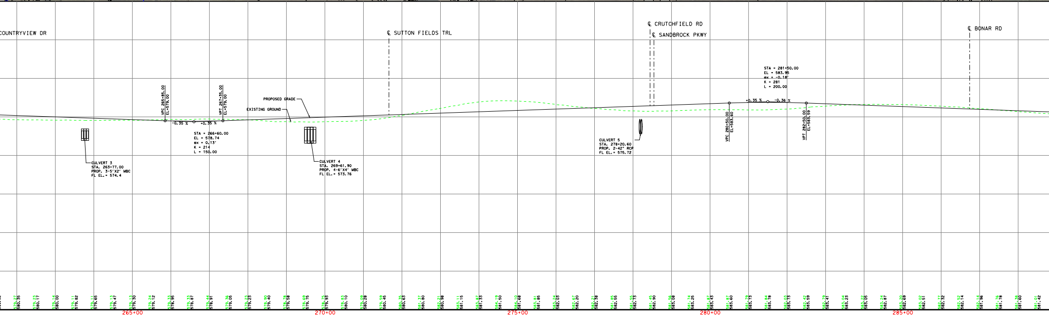
CURVE DATA TABLE

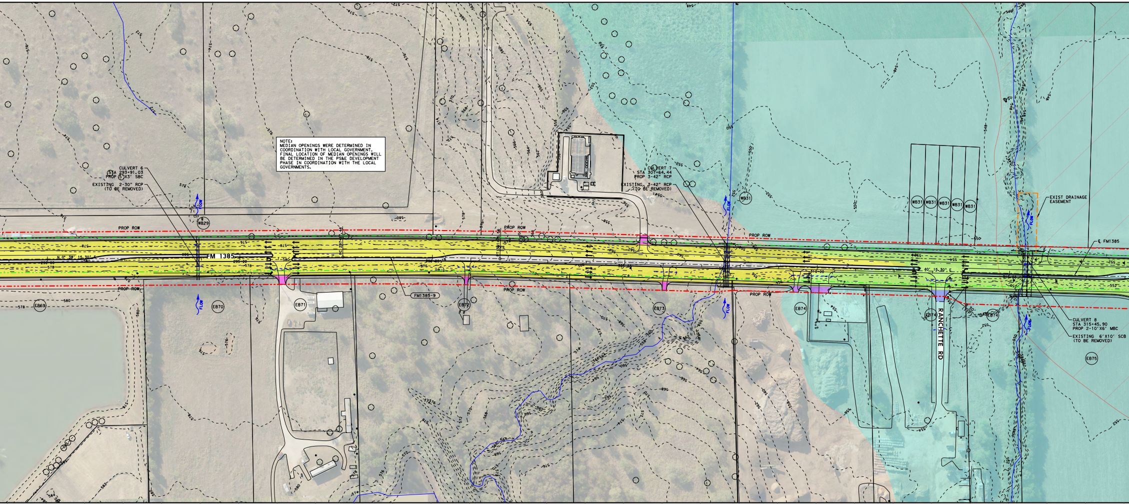
DEGREE	TANGENT	LENGTH	RADUIS	PI STA	PC STA	PT STA
0° 34' 22.65"	77.09'	154.17'	10000.00'	283+06.07	282+28.98	283+83.15
0° 29' 53.61"	204.08'	408.12'	11500.00'	299+71.52	297+67.44	301+75.56

PROP ID	NAME	MAILING ADDRESS
EB62	MARGIE B CHESNEY	3612 FM 1385
EB63	JENNIFER S & RICHARD A DAHL	5706 STARFISH CT
EB64	LARRY G & MARY C BLYTHE	3802 FM 1385
EB65	RICK & TAMMY BATES	24006 COUNTRYVIEW DR
EB66	MUSTANG WATER SUPPLY	5315 US HIGHWAY 377 S STE B
EB67	CADG SUTTON FIELDS LLC	1800 VALLEY VIEW LN STE 300
EB68	CITY OF CELINA	142 N OHIO ST
EB69	CADG SUTTON FIELDS II LLC	1800 VALLEY VIEW LN STE 300
EB70	MUNISH & ANUSHA GUPTA	5628 SAINT PETER DR
EB71	DENA E RILEY	2337 AN COUNTY ROAD 318
EB72	JEFF HAMNER	567 HANOVER DR
EB73	SS GROUP LLC	7155 SHOESTRING DR
EB74	SF COLLIN COUNTY LLC	4541 LANCELOT DR
EB75	TARSAN CORP	125 TWIN LAKES DR
EB76	ADOLFO I & LAURA A MONSALVE	8409 BANTRY CT
WB29	HORIZON/DEER CREEK DEVELOPMENT CORP	5760 LEGACY DR STE B3-388
WB30	SANDBROCK INVESTMENTS INC	5601 DEMOCRACY DR STE 300
WB31	MUSTANG SPECIAL UTILITY DISTRICT	7985 FM 2931


FM 1385
SANDBROCK PKWY
CRUTCHFIELD RD
SUTTON FIELDS TRL
BONAR RD
CULVERT 3
STA 263+77.00
PROP 3-5'X2' MBC
ING 3-2'X5' MBC
(TO BE REMOVED)
CULVERT 4
STA 269+61.90
PROP 4-6'X4' MBC
EXISTING 3-2'X5' MBC
(TO BE REMOVED)
CULVERT 5A
STA 278+12.25
PROP 2-42" RCP
CULVERT 5B
STA 278+80.25
PROP 42" RCP
CULVERT 5
STA. 278+20.60
PROP 2-42" RCP
PROP ROW
EXIST ROW
FLOW
R 30' (TYP)
WB28
WB29
EB66
EB67
EB68
FM1385-8
270+00
285+00
574
576
578
580
582
584

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.


COUNTRYVIEW DR
℄ SUTTON FIELDS TRL
℄ CRUTCHFIELD RD
℄ SANDBROCK PKWY
℄ BONAR RD
PROPOSED GRADE
EXISTING GROUND
VPC 265+85.00
EL=579.00
VPT 267+35.00
EL=579.00
-0.35 %
+0.35 %
STA = 266+60.00
EL = 578.74
ex = 0.13'
K = 214
L = 150.00
CULVERT 3
STA. 263+77.00
PROP. 3-5'X2' MBC
FL EL.= 574.4
CULVERT 4
STA. 269+61.90
PROP. 4-6'X4' MBC
FL EL.= 573.76
CULVERT 5
STA. 278+20.60
PROP. 2-42" RCP
FL EL.= 575.72
STA = 281+50.00
EL = 583.95
ex = -0.18'
K = 281
L = 200.00
+0.35 %
-0.36 %
VPC 280+50.00
EL=583.60
VPT 282+50.00
EL=583.59
265+00
270+00
275+00
280+00
285+00


CULVERT 6
STA 293+91.03
PROP 5'X3' SBC
EXISTING 2-30" RCP
(TO BE REMOVED)
PROP ROW
FLOW
WB29
FM 1385
N 0° 38' 15.30" E
FM1385-9
EB69
EB70
EB71
EB72
EB73
CULVERT 7
STA 307+64.44
PROP 3-42" RCP
EXISTING 3-42" RCP
(TO BE REMOVED)
WB31
EB74
RANCHETTE RD
EXIST DRAINAGE
EASEMENT
℄ FM1385
CULVERT 8
STA 315+45.90
PROP 2-10'X6' MBC
EXISTING 6'X10' SCB
(TO BE REMOVED)
EB75

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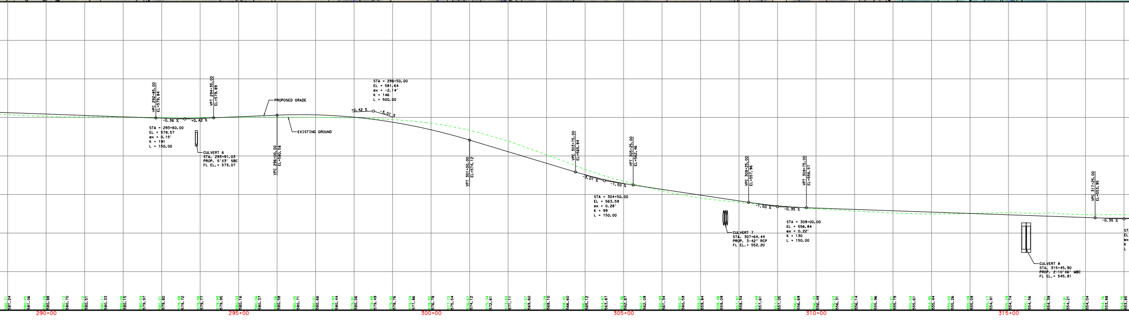
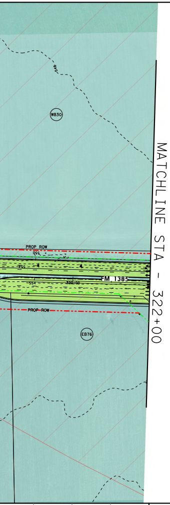
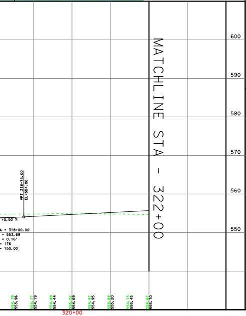



548
WB30
PROP ROW
550
555
FM 1385
554
320+00
PROP ROW
EB76
MATCHLINE STA - 322+00



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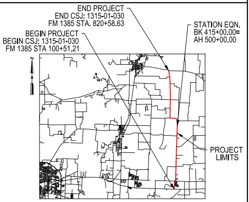
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FM 1385 STA. 820+58.63
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BEGIN CSJ: 1315-01-030
FM 1385 STA 100+51.21
STATION EQN.
BK 415+00.00=
AH 500+00.00
N
PROJECT LIMITS

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

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(TX PE NO. 100239)

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9/11/2020

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ROLL 3 OF 9

LTRA
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