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Texas Department of Transportation

DALLAS DISTRICT
PRELIMINARY DESIGN SCHEMATIC

MOHAMED K. BUR, P.E.
DISTRICT ENGINEER

FM 548 / FM 1641

FM 548 FROM: FM 1641 TO: US 80
CSJ: 2588-01-020
PROJECT LENGTH: 0.22 MILES

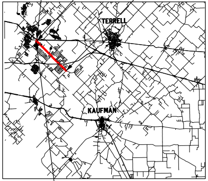
FM 1641 FROM: FM 548 TO: FM 148
CSJ: 1217-01-019
PROJECT LENGTH: 5.42 MILES

KAUFMAN COUNTY
FUNCTIONAL CLASS: URBAN MINOR ARTERIAL
FM 548/FM 1641 DESIGN SPEED: 45 MPH
CROSS-ST DESIGN SPEED: 30 MPH

END CSJ: 2588-01-020
FM 548 STA. 23+82.00

BEGIN CSJ: 1217-01-019
FM 1641 STA. 10+81.90

END CSJ: 1217-01-019
FM 1641 STA. 296+90.00


TERRELL
KAUFMAN
N

BEGIN CSJ: 2588-01-020
FM 548 STA . 11+90.00

KAUFMAN COUNTY
SCALE (IN MILES)
0 3 6 9 12
DALLAS DISTRICT

Scale: Horizontal 1"=100'
Scale: Vertical 1"=10'

FEBRUARY 2020

PRELIMINARY
SUBJECT TO REVISIONS

SCHEMATIC PREPARED BY OR UNDER
THE DIRECT SUPERVISION OF:

NAME	P.E. NUMBER
BARRY D. HEARD	85478
KARA K. HUFFMAN	88525

FEBRUARY 19, 2020
DATE

NOT INTENDED FOR CONSTRUCTION,
BIDDING, OR PERMIT PURPOSES

ROLL 4 OF 4

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

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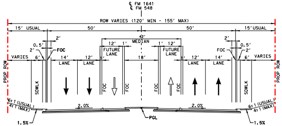
LEGEND:

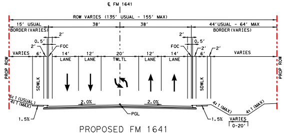
🟨	PROPOSED MAINLANES
🟪	PROPOSED CROSS STREETS
▨	PROPOSED SIDEWALKS
-·-·-·-	EXISTING ROW
-·-·-·-	PROPOSED ROW
-·-·-·-	PROPOSED ROW BY OTHERS
-·-·-·-	PROPOSED CENTERLINE/BASELINE
- - - -	EXISTING EASEMENT
———	NTMWD WATER LINE
---- W(D)----	WATER LINE
----G(D)----	GAS LINE
—— OE ——	ELECTRIC LINE
- - - -	FUTURE PROJECT BY OTHERS
→	DIRECTION OF TRAVEL
▭	RIPRAP
(XXXXX)	CURVE NUMBER

NOTES:

1. EXISTING FEATURES WERE NOT FIELD SURVEYED. SCHEMATICS ARE BASED ON EXISTING PLANS AND AERIAL SURVEYS DATED NOVEMBER 2017 AND SEPTEMBER 2018.
2. ADA RAMPS ARE NOT DEPICTED ON THE PLAN. THE EXACT LOCATIONS OF ADA RAMPS AND SIDEWALKS WILL BE DETERMINED DURING THE FINAL DESIGN THROUGH COORDINATION BETWEEN TxDOT AND LOCAL GOVERNMENTS.
3. EXISTING DRIVEWAYS WILL REMAIN UNLESS IT IS DETERMINED DURING DETAILED DESIGN AND COORDINATION WITH THE CITIES THAT THE DRIVEWAY WILL BE A SAFETY ISSUE.
4. MEDIAN OPENING LOCATIONS TO BE DETERMINED IN PS&E DEVELOPMENT IN COORDINATION WITH LOCAL GOVERNMENT.
5. UNLESS OTHERWISE NOTED, EXISTING PAVEMENT AND BRIDGES LOCATED WITHIN LIMITS OF PROPOSED RECONSTRUCTION WILL BE REMOVED.
6. DIMENSIONS ARE TO FACE OF CURB OR TO THE EDGE OF UNCURBED PAVEMENT (UNLESS OTHERWISE NOTED).
7. APPROXIMATE 100 YEAR FLOODPLAIN LIMITS ARE BASED UPON FEMA FLOOD INSURANCE RATE MAP 48139C0050F.
8. OWNERSHIP INFORMATION SHOWN ON SCHEMATIC OBTAINED FROM ELLIS COUNTY APPRAISAL DISTRICT (JUNE 2018).
9. EXISTING CULVERT LOCATIONS, SIZE, AND ELEVATIONS OBTAINED FROM RECORD DOCUMENTS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.


℄ FM 1641
℄ FM 548
ROW VARIES (120' MIN - 155' MAX)
15' USUAL
50'
50'
15' USUAL
42'
MEDIAN
2'
0.5'
2'
FOC
VARIES
6'
14'
LANE
12'
LANE
12'
FUTURE LANE
1'
18'
1'
FUTURE LANE
12'
LANE
14'
LANE
FOC
PROP ROW
SDWLK
FOC
2.0%
2.0%
6:1 (USUAL)
4:1 (MAX)
1.5%
PGL

PROPOSED FM 1641
STA. 10+81.90 TO STA. 240+00.00
PROPOSED FM 548
STA. 13+00.00 TO STA. 23+82.00


℄ FM 1641
ROW VARIES (135' USUAL - 155' MAX)
15' USUAL
BORDER (VARIES)
38'
38'
44' USUAL - 64' MAX
BORDER (VARIES)
0.5'
2'
FOC
VARIES
6'
14'
LANE
12'
LANE
20'
TWLTL
12'
LANE
14'
LANE
PROP ROW
SDWLK
2.0%
2.0%
6:1 (USUAL)
4:1 (MAX)
4:1 (MAX)
1.5%
PGL
VARIES
0-20'

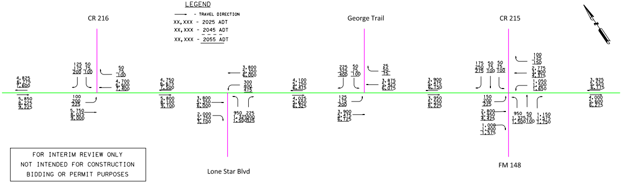
PROPOSED FM 1641
STA. 240+00.00 TO STA. 296+90.00

CURVE NO.	DELTA	DEGREE	TANGENT	LENGTH	RADIUS	PI STA	PC STA	PT STA
FM1641-16	0° 19' 00.00" (RT)	0° 13' 45.08"	69.0861'	138.1719'	25,000.00'	272+65.91	271+96.82	273+34.99
FM1641-17	21° 04' 11.17" (LT)	5° 12' 31.35"	204.5658'	404.5105'	1,100.00'	294+34.99	292+30.42	296+34.93
XFM148-1	3° 44' 57.80" (LT)	3° 34' 51.55"	52.3700'	104.7027'	1,600.00'	15+48.58	14+96.21	16+00.92

PROPERTY ID	NAME	MAILING ADDRESS
WB56	ALMO INVESTMENT LTD	PO BOX 2599, WAXAHACHIE, TX 75168
WB57	WILLIAMS KATHERINE R	10464 E NW HWY STE B, DALLAS, TX 75238
WB58	ADAMS THOMAS & DEBRA	PO BOX 694, FORNEY, TX 75126
WB59	ZAVADIL HENRY J	PO BOX 1448, FORNEY, TX 75125
WB60	LUNA HELEN MARIE	PO BOX 183, FORNEY, TX 75126
WB61	PRESS FREDRICK L & DELAURA	1672 FRANKFORD DR, FORNEY, TX 75126
WB62	MARTIN KEVIN R & CARRIE R	9028 FM RD 1641, TERRELL, TX 75160
WB63	ADCOCK MIKE SR	11285 FM 2932, FORNEY, TX 75126
WB65	ESCARZAGA JESUS & MARTHA GARCIA	8992 FM RD 1641, TERRELL, TX 75160
WB66	HART BYRD REAL ESTATE LLC	1012 HELMS TRAIL, FORNEY, TX 75126
WB67	CARTER CARY L	PO BOX 154, CRANDALL, TX 75114
WB68	VILLALPANDO ROBERTO	8938 FM RD 1641 TERRELL, TX 75160
WB72	BAIMA KIMBERLEE	8856 FM 1641, TERRELL, TX 75160
WB73	FLOURNOY JAMES & CAROLYN	13149 GLENWOOD TR, FORNEY, TX 75126
WB74	SIERRA ZEFERINO & IRENE	PO BOX 1148, FORNEY, TX 75126-1148
WB75	SHEFFIELD PROPERTIES INC	PO BOX 69, ROCKWALL, TX 75087
WB77	GREINER ROBERT	8036 AMELIA WAY, TERRELL, TX 75160-0196
WB79	MORRIS CATHERINE	7099 N FM RD 148, TERRELL, TX 75160
EB27	BARRETT PATRICK & BECKY FRANCES	1349 W ALAMOSA DR, TERRELL, TX 75160

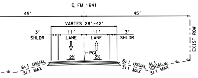
PROPERTY ID	NAME	MAILING ADDRESS
EB30	HOWARD CATHERINE & KYLE	1243 W ALAMOSA DR, TERRELL, TX 75160
EB31	GARTHOFF MICHAEL & PAULA	1219 WEST ALAMOSA DRIVE, TERRELL, TX 75160
EB33	CHATMAN CHAD	1147 W ALAMOSA DR, TERRELL, TX 75160
EB34	DOWNING CHARLES E	1121 W ALAMOSA, TERRELL, TX 75160
EB35	BRYANT ALICIA & STEVEN V	1085 W ALAMOSA DR, TERRELL, TX 75160
EB36	ALEXANDER EDWARD L & CONNIE	1051 W ALAMOSA, TERRELL, TX 75160
EB37	CARDONA GERARDO & CHRISTINA	1027 E ALAMOSA DR, TERRELL , TX 75160
EB38	FANSELOW JAMES R & AMANDA A	1051 E ALAMOSA DR, TERRELL, TX 75160
EB39	GULLEY RODGER E	1085 E ALAMOSA DR, TERRELL, TX 75160
EB40	PRESTON CHARLES E & CLARENCE O	1129 ALAMOSA DR, TERRELL, TX 75160
EB41	SANCHEZ NOE	1163 E ALAMOSA, TERRELL, TX 75160
EB42	ROEBUCK RICHARD D JR & SEVERINA C	1191 E ALAMOSA DR, TERRELL, TX 75160
EB43	HUH MIN JA	1217 E ALAMOSA, TERRELL, TX 75160
EB46	ARMSTRONG KELVIN W & TONIA L	1299 E ALAMOSA DR, TERRELL, TX 75160
EB47	GILLESPIE JASON	1315 E ALAMOSA DR, TERRELL, TX 75160
EB50	GREINER ROBERT	8036 AMELIA WAY, TERRELL, TX 75160-0196
EB51	KASPER WILFRED A ETAL	8422 CO RD 302, KAUFMAN, TX 75142
EB52	COPE MICHAEL D	8222 WILLOW CIR, TERRELL, TX 75160
EB53	EPIC GLASS & BUILDING SERVICES INC	PO BOX 2189, FORNEY, TX 75126

EXIST ROW
PROP ROW
E
T


LEGEND
→ - TRAVEL DIRECTION
XX,XXX - 2025 ADT
XX,XXX - 2045 ADT
XX,XXX - 2055 ADT
CR 216
Lone Star Blvd
George Trail
CR 215
FM 148
4,825 6,775 7,600
5,850 8,225 9,225
125 175 200
50 75 100
50 75 100
4,700 6,600 7,400
100 200 225
5,750 8,025 9,000
4,750 6,675 7,500
5,800 8,100 9,100
3,800 5,350 6,000
300 400 475
3,800 5,350 6,000
2,000 2,750 3,100
950 1,325 1,500
225 300 325
4,100 5,750 6,475
4,025 5,650 6,325
225 325 400
50 75 100
25 50 75
3,875 5,425 6,075
125 175 200
3,900 5,475 6,125
3,900 5,475 6,150
3,950 5,550 6,225
175 250 275
50 75 100
50 75 100
100 125 150
2,775 3,900 4,375
1,050 1,500 1,650
150 200 225
2,800 3,950 4,425
1,000 1,400 1,575
950 1,325 1,500
50 75 100
1,150 1,575 1,750
3,925 5,525 6,175
4,000 5,600 6,275

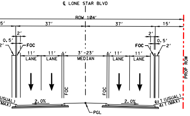
FOR INTERIM REVIEW ONLY
NOT INTENDED FOR CONSTRUCTION
BIDDING OR PERMIT PURPOSES

TRAFFIC PROJECTIONS BASED ON NCTCOG TDM AND CORRIDOR INFORMATION PACKET PROVIDED BY TPP NOVEMBER 14, 2019


℄ FM 1641
45'
45'
VARIES 28'-42'
3' SHLDR
11' LANE
11' LANE
3' SHLDR
PGL
2%
2%
6:1 USUAL
3:1 MAX
6:1 USUAL
3:1 MAX
4:1 USUAL
3:1 MAX
EXIST ROW

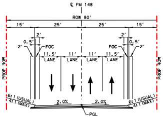
EXISTING FM 1641

STA. 10+81.90 TO STA. 296+90.00


℄ LONE STAR BLVD
ROW 104'
15'
37'
37'
15'
2'
0.5'
FOC
11' LANE
11' LANE
3'-23' MEDIAN
11' LANE
11' LANE
FOC
FOC
FOC
2.0%
2.0%
USUAL)
MAX)
6:1 (USUAL)
4:1 (MAX)
PGL
PROP ROW

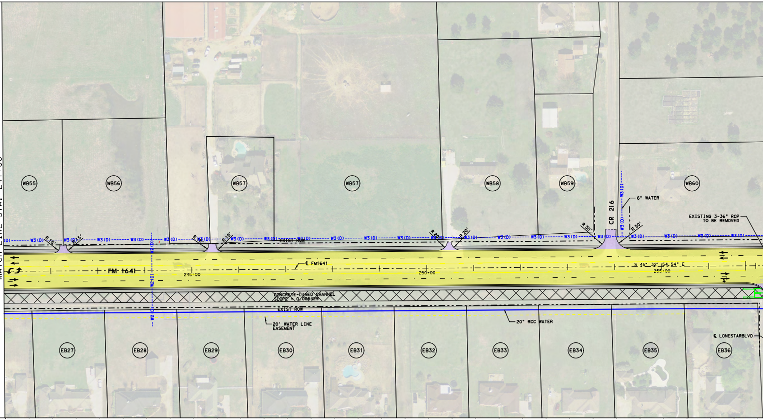
XISTING/PROPOSED LONE STAR BLVD

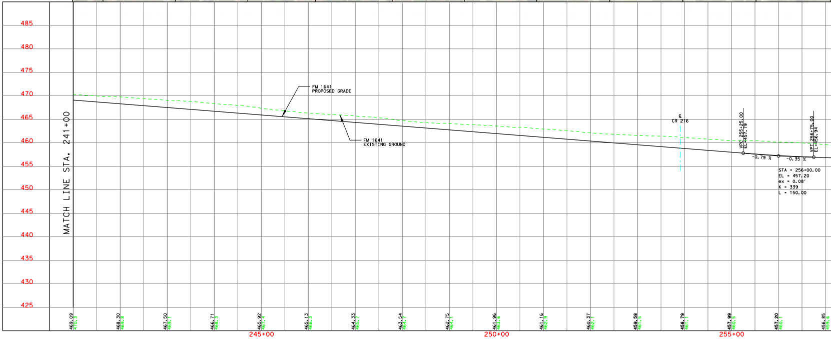
STA. 10+79.95 TO STA. 12+00.00

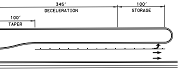

℄ FM 148
ROW 80'
15'
25'
25'
15'
2'
0.5'
FOC
11.5' LANE
11' LANE
11' LANE
11.5' LANE
PROP ROW
PROP ROW
2.0%
2.0%
6:1 (USUAL)
4:1 (MAX)
6:1 (USUAL)
4:1 (MAX)
PGL

EXISTING/PROPOSED FM 148

STA. 12+50.00 TO STA. 15+50.00

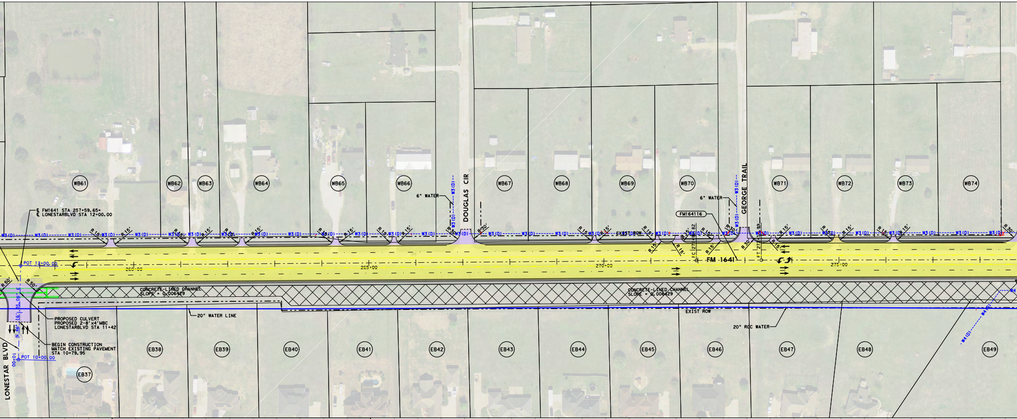

MATCH LINE STA. 241+00
WB55
WB56
WB57
WB57
WB58
WB59
WB60
W3 (D)
W2 (D)
R 15'
R 20'
R 30'
EXIST ROW
FM 1641
℄ FM1641
245+00
250+00
255+00
S 45° 32' 54.54" E
CR 216
6" WATER
EXISTING 3-36" RCP TO BE REMOVED
CONCRETE-LINED CHANNEL SLOPE = 0.006429
20' WATER LINE EASEMENT
20" RCC WATER
℄ LONESTARBLVD
EB27
EB28
EB29
EB30
EB31
EB32
EB33
EB34
EB35
EB36

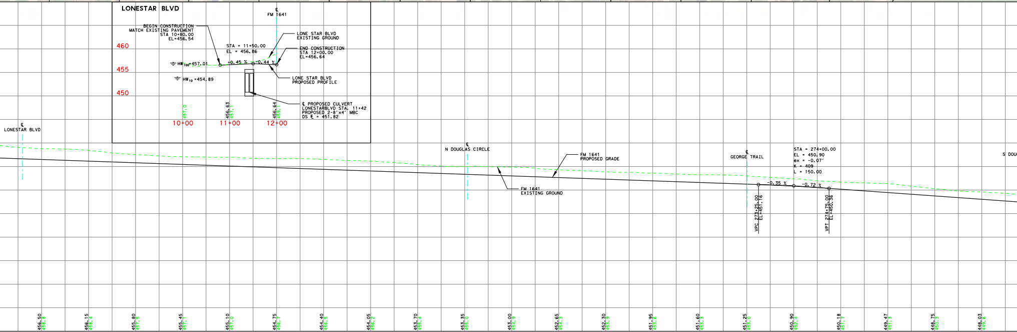


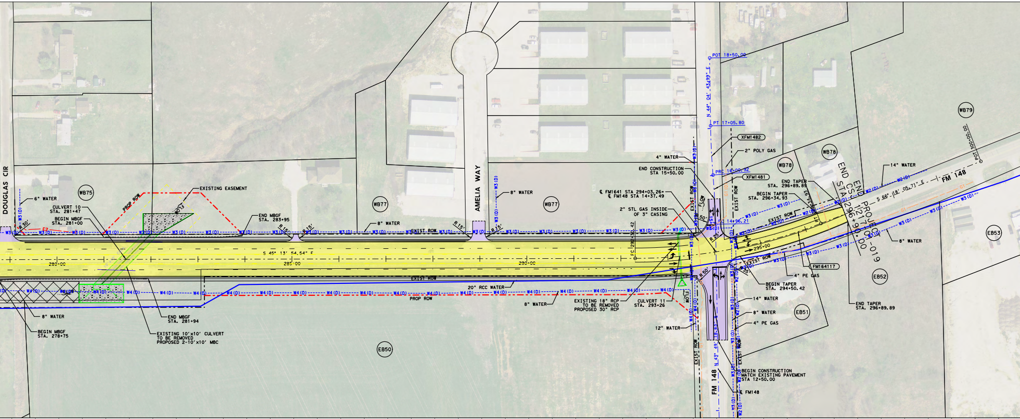

345' DECELERATION
100' STORAGE
100' TAPER

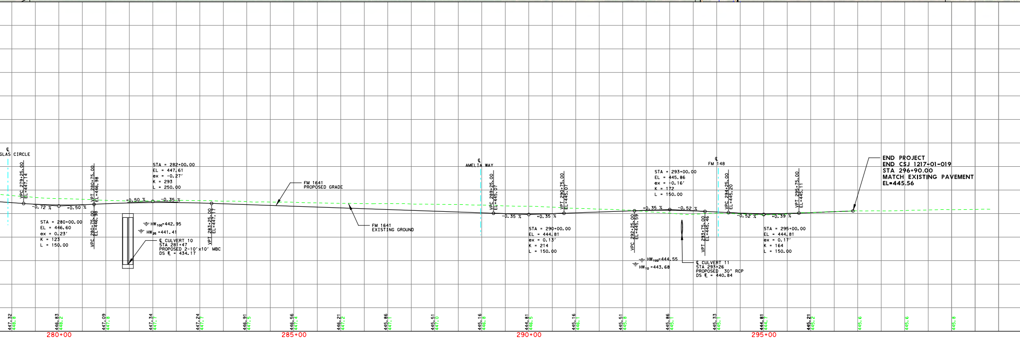
YPICAL LEFT-TURN BAY DETAIL

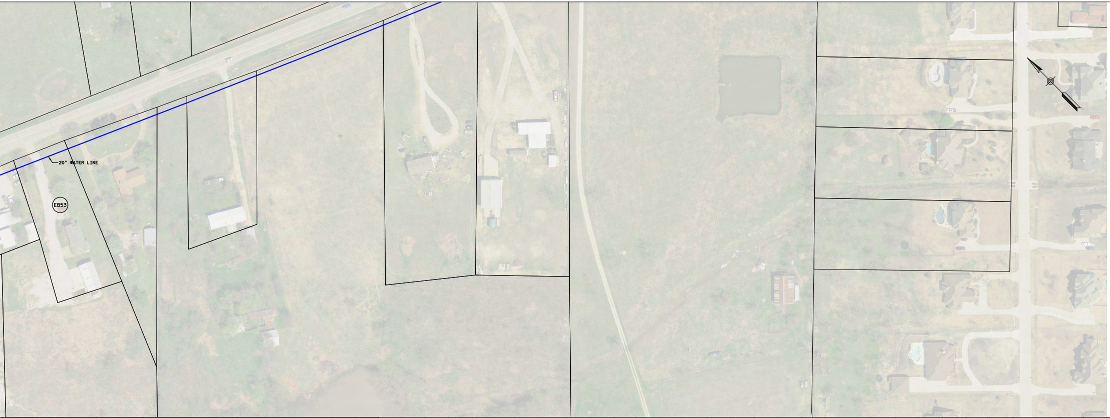
UNLESS OTHERWISE NOTED

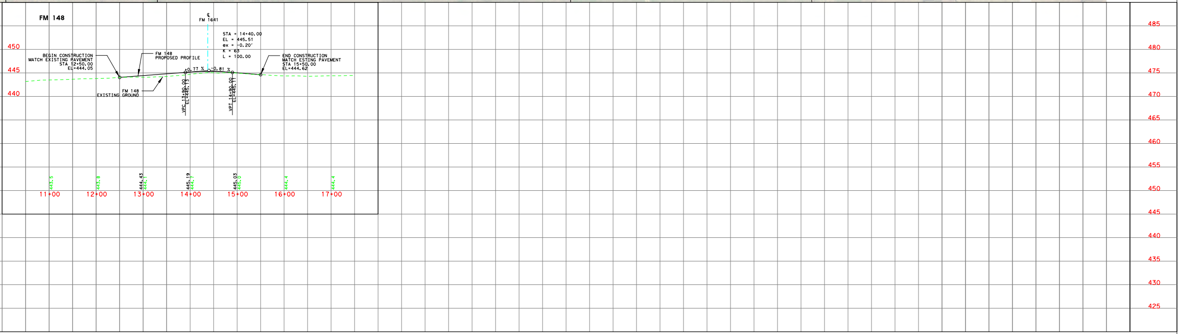

WB61
WB62
WB63
WB64
WB65
WB66
WB67
WB68
WB69
WB70
WB71
WB72
WB73
WB74
℄ FM1641 STA 257+59.65=
℄ LONESTARBLVD STA 12+00.00
W3(D)
R 15'
R 30'
R 50'
6" WATER
DOUGLAS CIR
GEORGE TRAIL
FM164116
EXIST ROW
FM 1641
POT 12+00.00
260+00
265+00
270+00
275+00
CONCRETE-LINED CHANNEL
SLOPE = 0.006429
20" WATER LINE
EXIST ROW
20" RCC WATER
W4(D)
PROPOSED CULVERT
PROPOSED 2-8'x4'MBC
LONESTARBLVD STA 11+42
BEGIN CONSTRUCTION
MATCH EXISTING PAVEMENT
STA 10+79.95
POT 10+00.00
10+00
35.06'
16'
N 46°
LONESTAR BLVD
EB37
EB38
EB39
EB40
EB41
EB42
EB43
EB44
EB45
EB46
EB47
EB48
EB49


LONESTAR BLVD
BEGIN CONSTRUCTION
MATCH EXISTING PAVEMENT
STA 10+80.00
EL=456.54
℄
FM 1641
LONE STAR BLVD
EXISTING GROUND
STA = 11+50.00
EL = 456.86
END CONSTRUCTION
STA 12+00.00
EL=456.64
HW100=457.01
+0.45 %
-0.44 %
HW10 =454.89
LONE STAR BLVD
PROPOSED PROFILE
℄ PROPOSED CULVERT
LONESTARBLVD STA. 11+42
PROPOSED 2-8'x4' MBC
DS ℄ = 451.82
460
455
450
457.0
456.63
457.1
456.64
459.1
10+00
11+00
12+00
℄
LONESTAR BLVD
℄
N DOUGLAS CIRCLE
FM 1641
PROPOSED GRADE
FM 1641
EXISTING GROUND
℄
GEORGE TRAIL
STA = 274+00.00
EL = 450.90
ex = -0.07'
K = 409
L = 150.00
-0.35 %
-0.72 %
VPC 273+25.00
EL=451.16
VPT 274+75.00
EL=450.36
S DOU
456.50
458.8
456.15
458.4
455.80
457.5
455.45
457.1
455.10
457.0
454.75
456.7
454.40
456.5
454.05
456.2
453.70
455.4
453.35
455.0
453.00
454.9
452.65
454.3
452.30
453.9
451.95
453.6
451.60
453.3
451.25
453.0
450.90
452.4
450.18
451.7
449.47
451.3
448.75
450.3
448.03
449.6
260+00
265+00
270+00
275+00


DOUGLAS CIR
AMELIA WAY
FM 148
WB75
WB77
WB78
WB79
EB50
EB51
EB52
EB53
6" WATER
8" WATER
4" WATER
12" WATER
14" WATER
20" RCC WATER
2" POLY GAS
4" PE GAS
2" STL GAS INSIDE OF 3" CASING
CULVERT 10 STA. 281+47
BEGIN MBGF STA. 281+00
END MBGF STA. 283+95
END MBGF STA. 281+94
BEGIN MBGF STA. 278+75
EXISTING EASEMENT
PROP ROW
EXIST ROW
FLOW
EXISTING 10'x10' CULVERT TO BE REMOVED PROPOSED 2-10'x10' MBC
S 45° 13' 54.54" E
280+00
285+00
290+00
295+00
R 30'
R 15'
R 25'
R 50'
FC 292+30.42
℄ FM1641 STA 294+03.26= ℄ FM148 STA 14+37.49
END CONSTRUCTION STA 15+50.00
BEGIN CONSTRUCTION MATCH EXISTING PAVEMENT STA 12+50.00
℄ FM148
POT 18+50.00
N 44° 04' 43.99" E
PT 17+05.80
PRC 16+00.92
PC 14+96.21
N 43° 49' 18.63" W
XFM1482
XFM1481
FM164117
EXISTING 18" RCP TO BE REMOVED PROPOSED 30" RCP
CULVERT 11 STA. 293+26
BEGIN TAPER STA. 294+50.42
BEGIN TAPER STA. 296+34.93
END TAPER STA. 296+89.89
END PROJECT END CSJ 1217-01-019 STA 296+90.00
S 66° 18' 05.71" E
POT 300+00.00
W2(D)
W3(D)
W4(D)
G1


℄ DOUGLAS CIRCLE
℄ AMELIA WAY
℄ FM 148
VPC 279+25.00 EL=447.14
VPT 280+75.00 EL=446.98
VPC 280+75.00 EL=446.98
VPT 283+25.00 EL=447.17
VPC 289+25.00 EL=445.07
VPT 290+75.00 EL=445.07
VPC 292+25.00 EL=445.59
VPT 293+75.00 EL=445.46
VPC 294+25.00 EL=445.20
VPT 295+75.00 EL=445.11
-0.72 %
+0.50 %
+0.50 %
-0.35 %
-0.35 %
+0.35 %
+0.35 %
-0.52 %
-0.52 %
+0.39 %
STA = 280+00.00
EL = 446.60
ex = 0.23'
K = 123
L = 150.00
STA = 282+00.00
EL = 447.61
ex = -0.27'
K = 293
L = 250.00
STA = 290+00.00
EL = 444.81
ex = 0.13'
K = 214
L = 150.00
STA = 293+00.00
EL = 445.86
ex = -0.16'
K = 172
L = 150.00
STA = 295+00.00
EL = 444.81
ex = 0.17'
K = 164
L = 150.00
FM 1641 PROPOSED GRADE
FM 1641 EXISTING GROUND
HW100=442.95
HW25 =441.41
℄ CULVERT 10 STA 281+47 PROPOSED 2-10'x10' MBC DS ℄ = 434.17
HW100=444.55
HW10 =443.68
℄ CULVERT 11 STA 293+26 PROPOSED 30" RCP DS ℄ = 440.84
END PROJECT
END CSJ 1217-01-019
STA 296+90.00
MATCH EXISTING PAVEMENT
EL=445.56
447.32
446.8
446.83
446.2
447.09
446.8
447.34
447.7
447.24
447.1
446.91
447.5
446.56
447.4
446.21
447.2
445.86
447.1
445.51
447.0
445.16
446.8
444.81
446.5
445.16
446.1
445.51
445.8
445.86
445.1
445.33
445.1
444.81
444.7
445.21
445.2
445.6
445.6
445.8
280+00
285+00
290+00
295+00


20" WATER LINE
EB53


FM 148
℄
FM 1641
STA = 14+40.00
EL = 445.51
ex = -0.20'
K = 63
L = 100.00
BEGIN CONSTRUCTION
MATCH EXISTING PAVEMENT
STA 12+50.00
EL=444.05
FM 148
PROPOSED PROFILE
+0.77 %
-0.81 %
END CONSTRUCTION
MATCH ESTING PAVEMENT
STA 15+50.00
EL=444.62
FM 148
EXISTING GROUND
VPC 13+90.00
EL=445.13
VPT 14+90.00
EL=445.11
450
445
440
443.5
443.8
444.43
444.1
445.19
444.7
445.03
445.0
444.4
444.4
11+00
12+00
13+00
14+00
15+00
16+00
17+00
485
480
475
470
465
460
455
450
445
440
435
430
425

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Texas Department
of Transportation

DALLAS DISTRICT
PRELIMINARY DESIGN SCHEMATIC

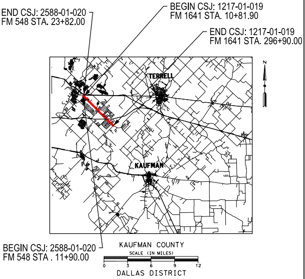
MOHAMED K. BUR, P.E.
DISTRICT ENGINEER

FM 548 / FM 1641

FM 548 FROM: FM 1641 TO: US 80
CSJ: 2588-01-020
PROJECT LENGTH: 0.22 MILES

FM 1641 FROM: FM 548 TO: FM 148
CSJ: 1217-01-019
PROJECT LENGTH: 5.42 MILES

KAUFMAN COUNTY
FUNCTIONAL CLASS: URBAN MINOR ARTERIAL
FM 548/FM 1641 DESIGN SPEED: 45 MPH
CROSS-ST DESIGN SPEED: 30 MPH


END CSJ: 2588-01-020
FM 548 STA. 23+82.00
BEGIN CSJ: 1217-01-019
FM 1641 STA. 10+81.90
END CSJ: 1217-01-019
FM 1641 STA. 296+90.00
TERRELL
KAUFMAN
N
BEGIN CSJ: 2588-01-020
FM 548 STA . 11+90.00
KAUFMAN COUNTY
SCALE (IN MILES)
0
3
6
9
12
DALLAS DISTRICT

Scale: Horizontal 1"=100'
Scale: Vertical 1"=10'

FEBRUARY 2020

PRELIMINARY
SUBJECT TO REVISIONS

SCHEMATIC PREPARED BY OR UNDER
THE DIRECT SUPERVISION OF:

NAME	P.E. NUMBER
BARRY D. HEARD	85478
KARA K. HUFFMAN	88525

FEBRUARY 19, 2020
DATE

NOT INTENDED FOR CONSTRUCTION,
BIDDING, OR PERMIT PURPOSES

ROLL 4 OF 4

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

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