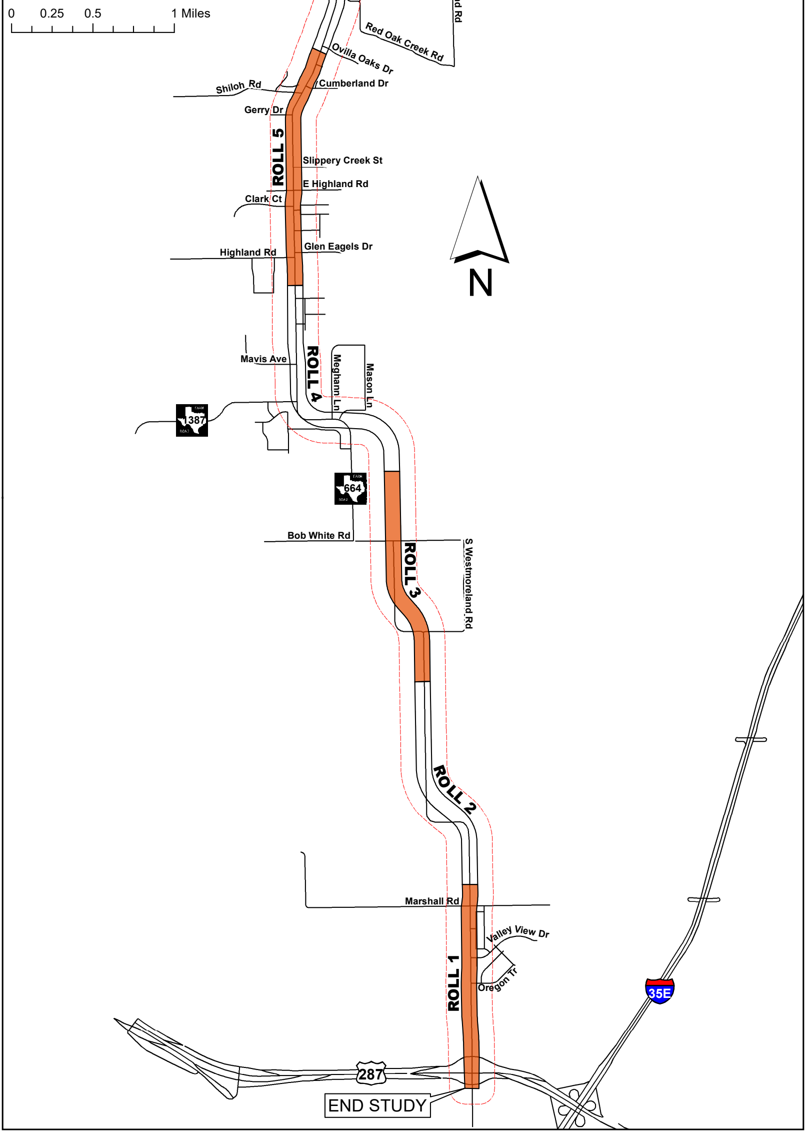
ROLL INDEX
Farm-to-Market (FM) 664

From U.S. Highway (US) 287
To Westmoreland Road
Ellis County

CSJs: 1051-01-038
and 1051-01-052


0
0.25
0.5
1 Miles
END STUDY
664
S Cockrell Hill Rd
Malloy Rd
ROLL 6
E Main St
Westmoreland Rd
Water St
Red Oak Creek Rd
Ovilla Oaks Dr
Shiloh Rd
Cumberland Dr
Gerry Dr
ROLL 5
Slippery Creek St
E Highland Rd
Clark Ct
Glen Eagels Dr
Highland Rd
N
Mavis Ave
ROLL 4
Meghann Ln
Mason Ln
1387
664
Bob White Rd
ROLL 3
S Westmoreland Rd
ROLL 2
Marshall Rd
Valley View Dr
Oregon Tr
ROLL 1
35E
287
END STUDY

Texas Department of Transportation ®

DALLAS DISTRICT
DESIGN SCHEMATIC

MOHAMED K. BUR, P.E., DISTRICT ENGINEER
ELLIS COUNTY

FARM TO MARKET ROAD 664 (OVILLA RD)

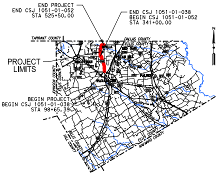
PROJECT LIMIT:
FROM US 287 TO WESTMORELAND RD

CSJ: 1051-01-038
1051-01-052

FUNCTIONAL CLASS: MINOR URBAN ARTERIAL

DESIGN SPEED: 40 mph FM 664
30 mph CROSS-ST
25 mph MAIN ST

PROJECT LENGTH: 8.084 MILES


END PROJECT
END CSJ 1051-01-052
STA 525+50.00
END CSJ 1051-01-038
BEGIN CSJ 1051-01-052
STA 341+00.00
TARRANT COUNTY
DALLAS COUNTY
ELLIS COUNTY
PROJECT LIMITS
JOHNSON COUNTY
ELLIS COUNTY
BEGIN PROJECT
BEGIN CSJ 1051-01-038
STA 98+65.39
ELLIS COUNTY
HILL COUNTY
ELLIS COUNTY
NAVARRO COUNTY
N

ELLIS COUNTY

LOCATION MAP

N.T.S.

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

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

OCTOBER 2019

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

DATE SUBMITTED
10/11/2019

DATE APPROVED

DATE REVISED

ROLL 1 OF 6

PRELIMINARY
FOR INTERIM REVIEW ONLY. NOT FOR PERMITTING, BIDDING, OR CONSTRUCTION.
Prepared by or under the
Direct Supervision of
HOWARD C. GIBBS III, P.E. 100239
10/11/2019

NOT INTENDED FOR
CONSTRUCTION,
BIDDING, OR
PERMIT PURPOSES

100% SUBMITTAL

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

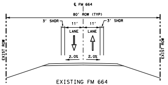
FILE NAME: M:\PROJECTS\TxDOT\FM 664\DGN\ULTIMATE SCHEMATICS\FM664_ROLL_1.dgn

LEGEND:

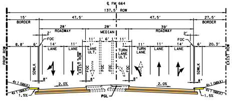
🟧	PROPOSED MAINLANES
▨	PAVEMENT TO BE REMOVED
🟪	PROPOSED DRIVEWAYS
🟪	PROPOSED CROSS STREETS
🟫	TEMPORARY PAVEMENT
🟧	PROPOSED BRIDGE STRUCTURES
🟨	PROPOSED SIDEWALKS
▨	PROPOSED DISPLACEMENTS
▬	PROPOSED DRAINAGE EASEMENT
═	PROPOSED DRAINAGE STRUCTURE
🟦	100 YR FLOODPLAIN
- - — - —	EXISTING ROW
▬ • ▬ • ▬	PROPOSED ROW
— - — - -	PROPOSED CENTERLINE/BASELINE
⌒	PROPOSED RETAINING WALL
(XXXXX)	CURVE NUMBER
→	DIRECTION OF TRAVEL
↝	DIRECTION OF FLOW
(XXXX)	PARCEL ID NUMBER
⚑	SCHOOL
◆	HAZARDOUS MATERIALS SITE
●	THC HISTORICAL MARKER
✝	CHURCH
◆	THC NEIGHBORHOOD SURVEY STRUCTURE

NOTES:

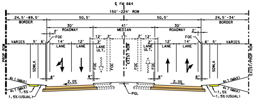
1. EXISTING FEATURES WERE NOT FIELD SURVEYED. SCHEMATICS ARE BASED ON AERIAL SURVEYS DATED OCTOBER 2017 AND RECORD PLANS.
2. ADA RAMPS ARE NOT DEPICTED ON THE PLAN. THE EXACT LOCATIONS OF ADA RAMPS AND SIDEWALKS WILL BE DETERMINED DURING THE FINAL DESIGN THROUGH COORDINATION BETWEEN TxDOT AND LOCAL GOVERNMENTS.
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 FINAL DESIGN.
5. BUILDINGS ARE SHOWN AS POTENTIAL DISPLACEMENTS IF THE PROPOSED ROW PHYSICALLY INTERSECTS THE EXISTING BUILDING STRUCTURE OR ACCESS IS ELIMINATED BY WALL.
6. UNLESS OTHERWISE NOTED, EXISTING PAVEMENT AND BRIDGES LOCATED WITHIN LIMITS OF PROPOSED RECONSTRUCTION WILL BE REMOVED.
7. DIMENSIONS ARE TO FACE OF CURB OR TO THE EDGE OF UNCURBED PAVEMENT UNLESS NOTED OTHERWISE.
8. SUPERELEVATION AXIS OF ROTATION IS ABOUT THE PGL.
9. DIMENSIONS ARE TO THE EDGE OF PAVEMENT OR NOMINAL FACE OF CURB, RAIL, BARRIER OR WALL (UNLESS NOTED OTHERWISE).
10. APPROXIMATE 100 YEAR FLOODPLAIN LIMITS ARE BASED UPON FEMA FLOOD INSURANCE RATE MAP 48139C0050F.
11. OWNERSHIP INFORMATION SHOWN ON SCHEMATIC OBTAINED FROM ELLIS COUNTY APPRAISAL DISTRICT (JUNE 2018).
12. ALL CURBS ARE TYPE II UNLESS NOTED OTHERWISE.


℄ FM 664
80' ROW (TYP)
3' SHDR
11'
11'
3' SHDR
LANE
LANE
2.0%
2.0%
EXIST ROW
EXIST ROW

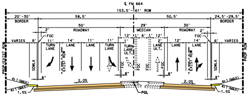
EXISTING FM 664
TYPICAL SECTION


℄ FM 664
137.5' ROW
15' BORDER
47.5'
47.5'
27.5' BORDER
28' ROADWAY
28' MEDIAN
39' ROADWAY
LANE
TURN LANE ULT.
SDWLK
PROP ROW
EXIST ROW
FOC
2.0%
4:1 (MAX)
1.5%
PGL

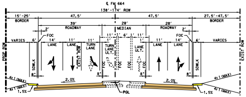
PROPOSED FM 664
TYPICAL SECTION
STA 135+66 TO 139+60


℄ FM 664
150'-224' ROW
24.5'-89.5' BORDER
50.5'
50.5'
24.5'-34' BORDER
30' ROADWAY
41' MEDIAN
30' ROADWAY
VARIES
LANE
LANE ULT.
SDWLK
PROP ROW
EXIST ROW
EXIST/PROP ROW
FOC
2.0%
4:1 (MAX)
1.5% (USUAL)
PGL

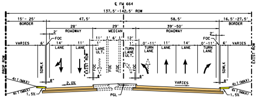
PROPOSED FM 664
TYPICAL SECTION
STA 106+23 TO 111+86
STA 116+61 TO 121+91
STA 151+80 TO 152+75


℄ FM 664
153.5'-161' ROW
20'-30' BORDER
58.5'
50.5'
24.5'-29.5' BORDER
50' ROADWAY
29' MEDIAN
30' ROADWAY
VARIES
TURN LANE
LANE
LANE ULT.
SDWLK
PROP/EXIST ROW
EXIST ROW
PROP ROW
FOC
2.0%
4:1 (MAX)
1.5%
PGL

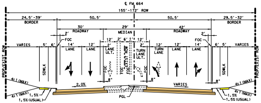
PROPOSED FM 664
TYPICAL SECTION
STA 148+05 TO 151+80


℄ FM 664
138'-174' ROW
15'-25' BORDER
47.5'
47.5'
27.5'-47.5' BORDER
39' ROADWAY
28' MEDIAN
28' ROADWAY
VARIES
LANE
TURN LANE
LANE ULT.
SDWLK
PROP ROW
EXIST ROW
FOC
2.0%
4:1 (MAX)
1.5%
PGL

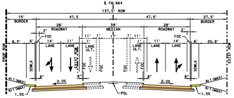
PROPOSED FM 664
TYPICAL SECTION
STA 122+89 TO 126+62
STA 131+12 TO 134+85
STA 140+43 TO 142+69


℄ FM 664
137.5'-142.5' ROW
15'-25' BORDER
47.5'
58.5'
16.5'-27.5' BORDER
28' ROADWAY
29' MEDIAN
39'-50' ROADWAY
VARIES
LANE
TURN LANE
LANE ULT.
SDWLK
PROP ROW
EXIST ROW
FOC
2.0%
4:1 (MAX)
1.5%
PGL

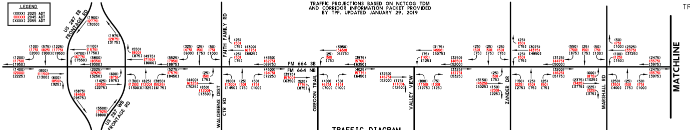
PROPOSED FM 664
TYPICAL SECTION
STA 126+50 TO 130+17
STA 142+69 TO 146+44


℄ FM 664
155'-172' ROW
24.5'-39' BORDER
50.5'
50.5'
29.5'-32' BORDER
30' ROADWAY
29' MEDIAN
42' ROADWAY
VARIES
LANE
TURN LANE ULT.
SDWLK
PROP/EXIST ROW
EXIST ROW
FOC
2.0%
4:1 (MAX)
1.5% (USUAL)
PGL

PROPOSED FM 664
TYPICAL SECTION
STA 111+86 TO 115+61
STA 152+75 TO 156+50


℄ FM 664
137.5' ROW
15' BORDER
47.5
47.5'
27.5' BORDER
28' ROADWAY
39' MEDIAN
28' ROADWAY
LANE
LANE ULT.
SDWLK
PROP ROW
EXIST ROW
FOC
2.0%
4:1 (MAX)
1.5%
PGL

PROPOSED FM 664
TYPICAL SECTION
STA 134+85 TO 135+66

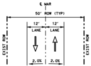

LEGEND
(XXXX) 2025 ADT
(XXXX) 2045 ADT
[XXXX] 2055 ADT
US 287 EB FRONTAGE RD
US 287 WB FRONTAGE RD
FAITH FAMILY RD
FM 664 SB
FM 664 NB
WALGREENS DIST CTR RD
OREGON TRAIL
VALLEY VIEW
ZANDER DR
MARSHALL RD
MATCHLINE
TR

TRAFFIC PROJECTIONS BASED ON NCTCOG TDM AND CORRIDOR INFORMATION PACKET PROVIDED BY TPP. UPDATED JANUARY 29, 2019

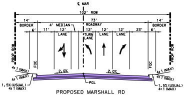
TRAFFIC DIAGRAM

N.T.S.

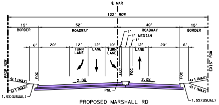
PRELIMINARY
NOT INTENDED FOR CONSTRUCTION
OR BIDDING PURPOSES


℄ MAR
50' ROW (TYP)
12'
12'
LANE
LANE
EXIST ROW
EXIST ROW
2.0%
2.0%

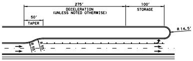
EXISTING MARSHALL RD
TYPICAL SECTION


℄ MAR
102' ROW
14'
BORDER
4' MEDIAN
73'
ROADWAY
14'
BORDER
6'
11'
12'
LANE
12'
TURN LANE
12'
LANE
12'
LANE
23'
6'
PROP ROW
PROP ROW
FOC
FOC
4:1 (MAX)
4:1 (MAX)
2.0%
2.0%
PGL
1.5% (USUAL)
4:1 (MAX)
4:1 (MAX)
4:1 (MAX)
1.5% (USUAL)
4:1 (MAX)

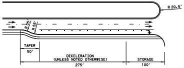
PROPOSED MARSHALL RD
TYPICAL SECTION
STA. 13+21 TO 14+29


℄ MAR
122' ROW
15'
BORDER
52'
ROADWAY
40'
ROADWAY
15'
BORDER
1'
4' MEDIAN
1'
6'
20'
12'
TURN LANE
12'
LANE
10'
TURN LANE
12'
LANE
20'
6'
PROP ROW
EXIST ROW
FOC
FOC
FOC
FOC
4:1 (MAX)
4:1 (MAX)
2.0%
2.0%
PGL
1.5% (USUAL)
4:1 (MAX)
4:1 (MAX)
1.5% (USUAL)

PROPOSED MARSHALL RD
TYPICAL SECTION
STA. 15+57 TO 16+44


275'
DECELERATION
(UNLESS NOTED OTHERWISE)
100'
STORAGE
50'
TAPER
R 14.5'
R 55'
R 55'

TYPICAL LEFT-TURN BAY DETAILS
N.T.S


R 20.5'
R 55'
R 55'
TAPER
50'
DECELERATION
(UNLESS NOTED OTHERWISE)
275'
STORAGE
100'

TYPICAL RIGHT-TURN BAY DETAILS
N.T.S

SUPERELEVATION TABLE

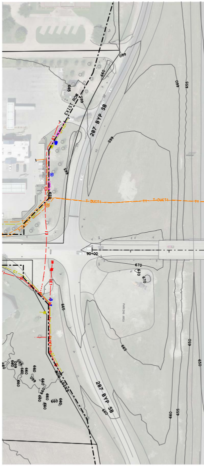
CHAIN ID.	BEGIN TRANSITION		END TRANSITION		BEGIN TRANSITION		END TRANSITION	
	STA	e	STA	e	STA	e	STA	e
FM 664 NORTHBOUND	141+50.00	-2.00%	145+00.00	2.00%	152+50.00	2.00%	156+00.00	-2.00%
FM 664 SOUTHBOUND	141+50.00	-2.00%	145+00.00	-2.00%	152+50.00	-2.00%	156+00.00	-2.00%

HORIZONTAL ALIGNMENT DATA

CHAIN NO.	POT STA	POT-NORTHING	POT-EASTING	BEARING	POT STA	POT-NORTHING	POT-EASTING
OT	10+00.00	6,846,652.49	2,470,375.62	S 89° 52' 39.30" E	12+22.97	6,846,652.01	2,470,598.59
VV	10+00.00	6,847,470.68	2,470,391.70	N 89° 17' 51.26" E	12+03.61	6,847,473.18	2,470,595.29
ZD	10+00.00	6,848,405.27	2,470,380.23	N 89° 17' 47.57" E	11+78.92	6,848,407.47	2,470,559.13
MAR	10+00.00	6,849,139.53	2,469,901.53	N 89° 38' 25.19" E	10+99.91	6,849,140.16	2,470,001.43
	11+38.35	6,849,141.14	2,470,039.86	N 87° 26' 15.00" E	12+87.41	6,849,147.81	2,470,188.77
	13+20.68	6,849,148.74	2,470,222.03	N 89° 20' 38.05" E	16+47.29	6,849,152.48	2,470,548.62
	17+18.75	6,849,146.03	2,470,619.66	S 78° 57' 31.91" E	18+23.64	6,849,125.94	2,470,722.61
	18+94.96	6,849,119.48	2,470,793.51	N 89° 21' 57.65" E	19+85.88	6,849,120.49	2,470,884.43
FM 664	90+00.00	6,843,408.04	2,470,472.35	N 0° 53' 51.65" W	—	—	—

CURVE DATA TABLE

CURVE NO.	DELTA	DEGREE	TANGENT	LENGTH	RADUIS	PI STA	PC STA	PT STA
FM664-1	3° 09' 21.79" (LT)	1° 08' 45.30"	137.74'	275.42'	5,000.00'	103+63.63	102+25.88	105+01.30
FM664-2	2° 44' 28.01" (RT)	1° 08' 45.30"	119.63'	239.21'	5,000.00'	111+20.93	110+01.30	112+40.51
FM664-3	3° 21' 16.51" (RT)	1° 54' 35.49"	87.85'	175.65'	3,000.00'	121+80.17	120+92.32	122+67.97
FM664-4	2° 44' 43.50" (LT)	0° 34' 22.65"	239.63'	479.17'	10,000.00'	127+93.60	125+53.97	130+33.13
FM664-5	6° 44' 43.39" (RT)	5° 43' 46.48"	58.93'	117.73'	1,000.00'	146+11.47	145+52.54	146+70.27
FM664-6	7° 06' 53.19" (LT)	3° 05' 49.45"	115.01'	229.73'	1,850.00'	150+65.40	149+50.39	151+80.12
MAR-1	2° 12' 10.19" (LT)	5° 43' 46.48"	19.23'	38.45'	1,000.00'	11+19.13	10+99.91	11+38.35
MAR-2	1° 54' 23.05" (RT)	5° 43' 46.48"	16.64'	33.27'	1,000.00'	13+04.05	12+87.41	13+20.68
MAR-3	11° 41' 50.04" (RT)	16° 22' 12.80"	35.85'	71.45'	350.00'	16+83.14	16+47.29	17+18.75
MAR-4	11° 40' 30.44" (LT)	16° 22' 12.80"	35.78'	71.32'	350.00'	18+59.42	18+23.64	18+94.96

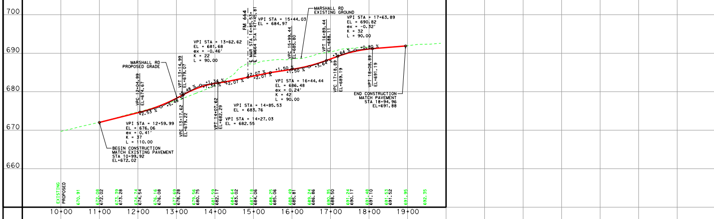

EXIST ROW
287 BYP SB
287 BYP SB
T-DUCT
T-DUCT
90+00
660
655
650
665
670

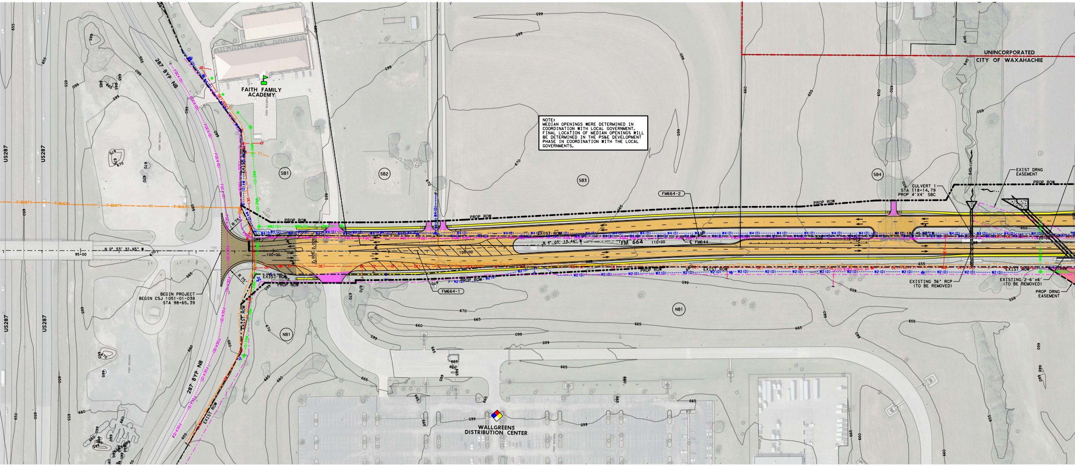
OWNER INFORMATION TABLE

ID	NAME	STREET ADDRESS
NB1	WALGREEN CO RENATA A EVTIMOV	710 FM664
NB2	SCHMERSE ENTERPRISES LP	100 OREGON TRL
NB3	SETTLERS GLEN HOMEOWNERS ASSOCIATION INC	OREGON TRL
NB4	PINSON ROCKY & ELISA	108 CANYON CT
NB5	MAXWELL MICHAEL & KIMBERLY	106 CONYON CT
NB6	WALTHER RAYMOND	104 CANYON CT
NB7	BOYNTON JAMES A & LAVERNE	102 CANYON CT
NB8	TURNER MATTHEW J & ANGELA G	100 CANYON CT
NB9	PEVEHOUSE KYLE & LETITIA	101 VALLEY VIEW DR
NB10	DAUGHERTY DARREN & WENDY	113 SIERRA DR
NB11	RUIZ AURELIO R & MARY HELEN	115 SIERRA DR
NB12	LOWERY ROBERT D & DEBORAH E	117 SIERRA DR
NB13	PIERSON JEREMY & AMANDA	119 SIERRA DR
NB14	FISHER JOHN M	121 SIERRA DR
NB15	GHANZ LAYNE F & JUSTIN W	123 SIERRA DR
NB16	ROSENBLAND RICKY A	125 SIERRA DR
NB17	THOMAS RICHARD H JR	127 SIERRA DR
NB18	WALKER SHARON	129 SIERRA DR
NB19	OMEGA AIRLINE SOFTWARE INC	131 SIERRA DR
NB20	QUINTERO ROBERT J	135 SIERRA DR
NB21	WOODWARD RYAN K & EMILIE N	137 SIERRA DR
NB22	MAYNE STEPHAN T & AUDRA T	139 SIERRA DR
NB23	COLLINS CHARLIE R	141 SIERRA DR
NB24	PARKER GEORGE B	143 SIERRA DR
NB25	BRADBURY CHRISTOPHER D	145 SIERRA DR
NB26	COSSETTE GERALD L	147 SIERRA DR
NB27	KING DWIGHT D & WESSIE K	149 SIERRA DR
NB28	POWER EVAN M & MADISON C	151 SIERRA DR
NB29	ALLAN ANN ETAL	PATRICK RD
SB1	FAITH FAMILY KIDS	701 FM664
SB2	JLS CUSTOM HOMES LLC	705 OVILLA RD
SB3	CALVERT SUSAN M	287 FM664
SB4	CALVERT SUSAN M	287 FM664
SB5	JONES TIMATHY W & SUSAN B	FM664
SB6	JAB PROPERTIES AT 664 LLC	919 OVILLA RD
SB7	UYOA JOEL & ADELA	929 OVILLA RD
SB8	GILLEN JOHNNY W & KAREN S	993 OVILLA RD
SB9	WOLF SHERYLE K	1001 OVILLA RD
SB10	SPENCER LINDA K	1003 OVILLA RD
SB11	BENAVIDES RAPHAEL	1005 OVILLA RD
SB12	MEEKS MARY E	1015 OVILLA RD
SB13	KEEPSAKE STORAGE LLC	1019 OVILLA RD
SB14	ISTOR SELF STORAGE LLC	1021 OVILLA RD
SB15	MEEKS GARY L & KELLY A	1023 OVILLA RD
SB16	KEEPSAKE STORAGE	1025 OVILLA RD
SB17	COX RANDY C & SHELLEY K	1101 FM 664
SB18	DYNIS DIANE F	1107 OVILLA RD
SB19	HEIBEL RHENDI & PATRICK D	1111 OVILLA RD
SB20	LENNON DANA RENEE	1201 OVILLA RD
SB21	BYERYS MARY EVAN TRUSTEE AND SUCCESSOR	1207 OVILLA RD

RAFFIC VOLUME
DIAGRAM
OF FM 664

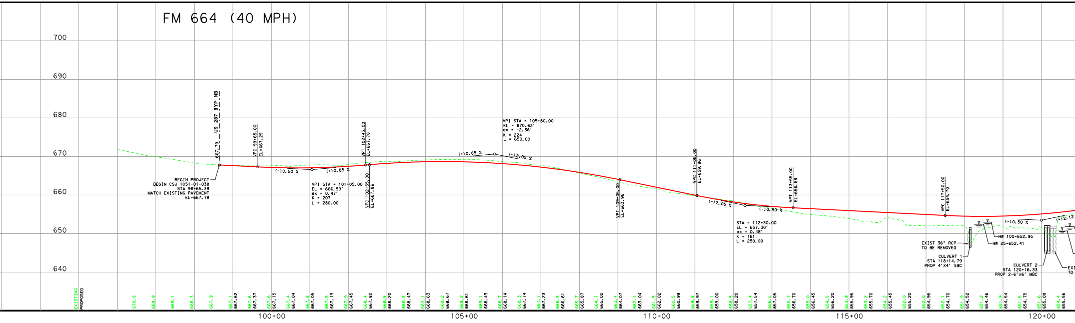
MARSHALL ROAD (30 MPH)

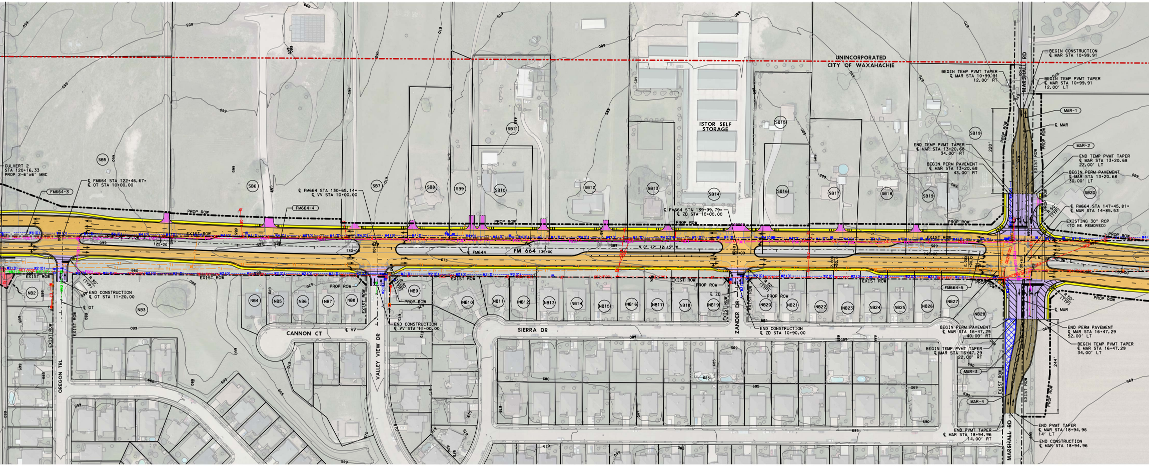


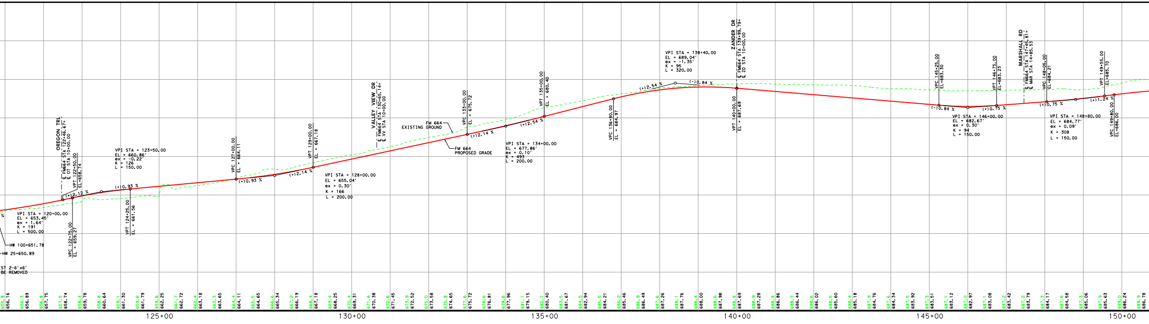

US287
287 BYP NB
FAITH FAMILY ACADEMY
SB1
SB2
SB3
SB4
NB1
FM664-2
FM664-1
FM 664
N 4° 03' 13.44" E
N 0° 53' 51.65" W
95+00
100+00
105+00
110+00
PROP ROW
EXIST ROW
T-DUCT
BEGIN PROJECT
BEGIN CSJ 1051-01-038
STA 98+65.39
R 75'
UNINCORPORATED
CITY OF WAXAHACHIE
CULVERT 1
STA 118+14.79
PROP 4'X4' SBC
EXIST DRNG EASEMENT
EXISTING 36" RCP (TO BE REMOVED)
EXISTING 2-6'x6' (TO BE REMOVED)
PROP DRNG EASEMENT
WALLGREENS DISTRIBUTION CENTER
287 BYP NB

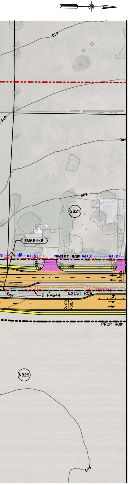
NOTE:
MEDIAN OPENINGS WERE DETERMINED IN COORDINATION WITH LOCAL GOVERNMENT. FINAL LOCATION OF MEDIAN OPENINGS WILL BE DETERMINED IN THE PS&E DEVELOPMENT PHASE IN COORDINATION WITH THE LOCAL GOVERNMENTS.

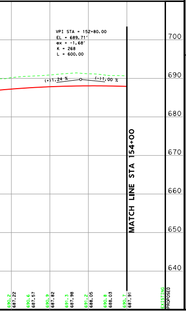
FM 664 (40 MPH)


700
690
680
670
660
650
640
US 287 BYP NB
667.79
BEGIN PROJECT
BEGIN CSJ 1051-01-038
STA 98+65.39
MATCH EXISTING PAVEMENT
EL=667.79
VPC 99+65.00
EL=667.29
(-)0.50 %
(+)0.85 %
VPI STA = 101+05.00
EL = 666.59'
ex = 0.47'
K = 207
L = 280.00
VPT 102+45.00
EL=667.78
VPC 102+55.00
EL=667.86
VPI STA = 105+80.00
EL = 670.63'
ex = -2.36'
K = 224
L = 650.00
(+)0.85 %
(-)2.05 %
VPT 109+05.00
EL=663.96
VPC 111+05.00
EL=659.86
(-)2.05 %
(-)0.50 %
STA = 112+30.00
EL = 657.30'
ex = 0.48'
K = 161
L = 250.00
VPT 113+55.00
EL=656.68
VPC 117+50.00
EL=654.70
(-)0.50 %
(+)2.12
HW 100+652.95
HW 25+652.41
EXIST 36" RCP TO BE REMOVED
CULVERT 1
STA 118+14.79
PROP 4'X4' SBC
CULVERT 2
STA 120+16.33
PROP 2-6'x6' MBC
EXISTING
PROPOSED
100+00
105+00
110+00
115+00
120+00


UNINCORPORATED
CITY OF WAXAHACHIE
CULVERT 2
STA 120+16.33
PROP 2-6'x6' MBC
FM664-3
℄ FM664 STA 122+46.67=
℄ OT STA 10+00.00
SB5
SB6
SB7
SB8
SB9
SB10
SB11
SB12
SB13
SB14
SB15
SB16
SB17
SB18
SB19
SB20
FM664-4
℄ FM664 STA 130+65.14=
℄ VV STA 10+00.00
ISTOR SELF STORAGE
℄ FM664 STA 139+99.79=
℄ ZD STA 10+00.00
PROP ROW
EXIST ROW
125+00
130+00
135+00
140+00
145+00
150+00
FM 664
℄ FM644
N 0° 42' 12.43" W
R 30' (TYP)
END CONSTRUCTION
℄ OT STA 11+20.00
℄ OT
NB2
NB3
NB4
NB5
NB6
NB7
NB8
NB9
NB10
NB11
NB12
NB13
NB14
NB15
NB16
NB17
NB18
NB19
NB20
NB21
NB22
NB23
NB24
NB25
NB26
NB27
NB28
OREGON TRL
CANNON CT
℄ VV
VALLEY VIEW DR
END CONSTRUCTION
℄ VV STA 11+00.00
SIERRA DR
℄ ZD
ZANDER DR
END CONSTRUCTION
℄ ZD STA 10+90.00
MARSHALL RD
BEGIN CONSTRUCTION
℄ MAR STA 10+99.91
BEGIN TEMP PVMT TAPER
℄ MAR STA 10+99.91
12.00' RT
BEGIN TEMP PVMT TAPER
℄ MAR STA 10+99.91
12.00' LT
MAR-1
℄ MAR
MAR-2
220'
END TEMP PVMT TAPER
℄ MAR STA 13+20.68
34.00' RT
BEGIN PERM PAVEMENT
℄ MAR STA 13+20.68
43.00' RT
END TEMP PVMT TAPER
℄ MAR STA 13+20.68
22.00' LT
BEGIN PERM PAVEMENT
℄ MAR STA 13+20.68
30.00' LT
℄ FM664 STA 147+45.81=
℄ MAR STA 14+85.53
R 50' (TYP)
EXISTING 30" RCP
(TO BE REMOVED)
FM664-5
BEGIN PERM PAVEMENT
℄ MAR STA 16+47.29
40.00' RT
BEGIN TEMP PVMT TAPER
℄ MAR STA 16+47.29
22.00' RT
END PERM PAVEMENT
℄ MAR STA 16+47.29
52.00' LT
BEGIN TEMP PVMT TAPER
℄ MAR STA 16+47.29
34.00' LT
244'
MAR-3
MAR-4
END PVMT TAPER
℄ MAR STA 18+94.96
14.00' RT
END PVMT TAPER
℄ MAR STA 18+94.96
14' LT
END CONSTRUCTION
℄ MAR STA 18+94.96
W4(D)
W2(D)
FOC1
OE1
OE2
T1
660
665
670
675
680
685
690
695




670
619
089
989
SB21
FM664-6
W4(D)
EXIST ROW
OE2
069
2.00%
OE1/FOC1/T1
T1
690
℄ FM644
EXIST ROW
2.00%
50.0
PROP ROW
NB29
695
MATCH LINE STA 154+00



Texas Department of Transportation ®

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

FARM TO MARKET ROAD 664 (OVILLA RD)

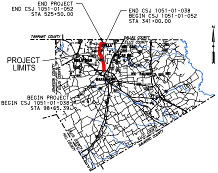
PROJECT LIMIT:
FROM US 287 TO WESTMORELAND RD

CSJ: 1051-01-038
1051-01-052

FUNCTIONAL CLASS: MINOR URBAN ARTERIAL

DESIGN SPEED: 40 mph FM 664
30 mph CROSS-ST
25 mph MAIN ST

PROJECT LENGTH: 8.084 MILES


END PROJECT
END CSJ 1051-01-052
STA 525+50.00
END CSJ 1051-01-038
BEGIN CSJ 1051-01-052
STA 341+00.00
N
TARRANT COUNTY
DALLAS COUNTY
ELLIS COUNTY
OVILLA
RED OAK
PECAN HILL
MIDLOTHIAN
PALMER
WAXAHACHIE
PROJECT LIMITS
JOHNSON COUNTY
ELLIS COUNTY
BEGIN PROJECT
BEGIN CSJ 1051-01-038
STA 98+65.39
ELLIS COUNTY
HILL COUNTY
ELLIS COUNTY
NAVARRO COUNTY

ELLIS COUNTY

LOCATION MAP
N.T.S.

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

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

OCTOBER 2019

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

DATE SUBMITTED
10/11/2019

DATE APPROVED

DATE REVISED

ROLL 1 OF 6

PRELIMINARY
FOR INTERIM REVIEW ONLY. NOT FOR PERMITTING, BIDDING, OR CONSTRUCTION.
Prepared by or under the Direct Supervision of
HOWARD C. GIBBS III, P.E. 100239
10/11/2019

NOT INTENDED FOR CONSTRUCTION, BIDDING, OR PERMIT PURPOSES

100% SUBMITTAL

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

Texas Department of Transportation®

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

FARM TO MARKET ROAD 664 (OVILLA RD)

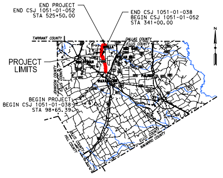
PROJECT LIMIT:
FROM US 287 TO WESTMORELAND RD

CSJ: 1051-01-038
1051-01-052

FUNCTIONAL CLASS: MINOR URBAN ARTERIAL

DESIGN SPEED: 40 mph FM 664
30 mph CROSS-ST
25 mph MAIN ST

PROJECT LENGTH: 8.084 MILES



END PROJECT
END CSJ 1051-01-052
STA 525+50.00
END CSJ 1051-01-038
BEGIN CSJ 1051-01-052
STA 341+00.00
TARRANT COUNTY
DALLAS COUNTY
ELLIS COUNTY
PROJECT LIMITS
JOHNSON COUNTY
BEGIN PROJECT
BEGIN CSJ 1051-01-038
STA 98+65.39
HILL COUNTY
ELLIS COUNTY
NAVARRO COUNTY
N

ELLIS COUNTY

LOCATION MAP

N.T.S.

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

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

OCTOBER 2019

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

DATE SUBMITTED
10/11/2019

DATE APPROVED

DATE REVISED

ROLL 2 OF 6

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Prepared by or under the Direct Supervision of
HOWARD C. GIBBS III, P.E. 100239
10/11/2019

NOT INTENDED FOR CONSTRUCTION, BIDDING, OR PERMIT PURPOSES

100% SUBMITTAL

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

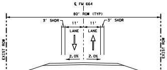
FILE NAME: M:\PROJECTS\TxDOT\FM 664\DGN\ULTIMATE SCHEMATICS\FM664_ROLL 2.dgn

LEGEND:

🟧	PROPOSED MAINLANES
▨	PAVEMENT TO BE REMOVED
🟪	PROPOSED DRIVEWAYS
🟪	PROPOSED CROSS STREETS
🟫	TEMPORARY PAVEMENT
🟧	PROPOSED BRIDGE STRUCTURES
🟨	PROPOSED SIDEWALKS
▨	PROPOSED DISPLACEMENTS
▬	PROPOSED DRAINAGE EASEMENT
═	PROPOSED DRAINAGE STRUCTURE
🟦	100 YR FLOODPLAIN
- · - · -	EXISTING ROW
━ · ━ · ━	PROPOSED ROW
— - — -	PROPOSED CENTERLINE/BASELINE
⊓	PROPOSED RETAINING WALL
(XXXXX)	CURVE NUMBER
→	DIRECTION OF TRAVEL
↝	DIRECTION OF FLOW
(XXXX)	PARCEL ID NUMBER
⚑	SCHOOL
◆	HAZARDOUS MATERIALS SITE
●	THC HISTORICAL MARKER
✝	CHURCH
◆	THC NEIGHBORHOOD SURVEY STRUCTURE

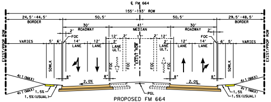
NOTES:

1. EXISTING FEATURES WERE NOT FIELD SURVEYED. SCHEMATICS ARE BASED ON AERIAL SURVEYS DATED OCTOBER 2017 AND RECORD PLANS.
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 FINAL DESIGN.
5. BUILDINGS ARE SHOWN AS POTENTIAL DISPLACEMENTS IF THE PROPOSED ROW PHYSICALLY INTERSECTS THE EXISTING BUILDING STRUCTURE OR ACCESS IS ELIMINATED BY WALL.
6. UNLESS OTHERWISE NOTED, EXISTING PAVEMENT AND BRIDGES LOCATED WITHIN LIMITS OF PROPOSED RECONSTRUCTION WILL BE REMOVED.
7. DIMENSIONS ARE TO FACE OF CURB OR TO THE EDGE OF UNCURBED PAVEMENT UNLESS NOTED OTHERWISE.
8. SUPERELEVATION AXIS OF ROTATION IS ABOUT THE PGL.
9. DIMENSIONS ARE TO THE EDGE OF PAVEMENT OR NOMINAL FACE OF CURB, RAIL, BARRIER OR WALL (UNLESS NOTED OTHERWISE).
10. APPROXIMATE 100 YEAR FLOODPLAIN LIMITS ARE BASED UPON FEMA FLOOD INSURANCE RATE MAP 48139C0050F.
11. OWNERSHIP INFORMATION SHOWN ON SCHEMATIC OBTAINED FROM ELLIS COUNTY APPRAISAL DISTRICT (JUNE 2018).
12. ALL CURBS ARE TYPE II UNLESS NOTED OTHERWISE.



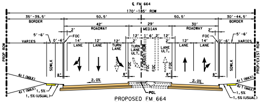
℄ FM 664
80' ROW (TYP)
3' SHDR
11'
11'
LANE
LANE
3' SHDR
EXIST ROW
EXIST ROW
2.0%
2.0%

EXISTING FM 664
TYPICAL SECTION



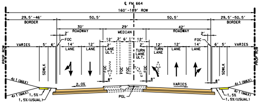
℄ FM 664
155'-193' ROW
24.5'-44.5' BORDER
50.5'
41' MEDIAN
50.5'
29.5'-48.5' BORDER
30' ROADWAY
30' ROADWAY
VARIES
5'
6'
2'
FOC
14' LANE
12' LANE
12' LANE ULT.
2'
17'
2'
12' LANE ULT.
12' LANE
14' LANE
FOC
6'
5'
VARIES
EXIST/PROP ROW
EXIST ROW
PROP/EXIST ROW
SDWLK
SDWLK
FOC
8"
2.0%
2.0%
4:1 (MAX)
1.5%
1.5% (USUAL)
PGL

PROPOSED FM 664
TYPICAL SECTION
STA 157+50 TO 163+75
STA 168+61 TO 172+40
STA 177+12 TO 184+84
STA 189+88 TO 200+72
STA 205+43 TO 213+50
STA 214+50 TO 226+50



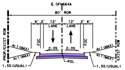
℄ FM 664
170'-185' ROW
35'-39.5' BORDER
50.5'
42' ROADWAY
29' MEDIAN
50.5'
30' ROADWAY
30'-44.5' BORDER
5'-6'
0'-6'
2'
FOC
14' LANE
12' LANE
12' TURN LANE
TURN LANE ULT.
LANE ULT.
12' LANE
14' LANE
FOC
VARIES
PROP ROW
PROP/EXIST ROW
SDWLK
8"
2.0%
2.0%
4:1 (MAX)
1.5%
1.5% (USUAL)
PGL

PROPOSED FM 664
TYPICAL SECTION
STA 201+69 TO 205+43



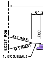
℄ FM 664
160'-189' ROW
29.5'-46' BORDER
50.5'
30' ROADWAY
29' MEDIAN
50.5'
42' ROADWAY
29.5'-50.5' BORDER
VARIES
5'
6'
2'
FOC
14' LANE
12' LANE
12' LANE ULT.
TURN LANE ULT.
12' TURN LANE
12' LANE
14' LANE
FOC
6'
5'
VARIES
PROP ROW
SDWLK
8"
2.0%
VARIES
4:1 (MAX)
1.5%
1.5% (USUAL)
PGL

PROPOSED FM 664
TYPICAL SECTION
STA 152+75 TO 156+50
STA 163+75 TO 167+50
STA 172+40 TO 176+08
STA 184+84 TO 188+63

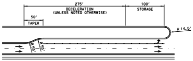


℄ OFM664A
80' ROW
6'
2'
12' LANE
12' LANE
2'
6'
FOC
FOC
PROP/EXIST ROW
EXIST ROW
4:1 (MAX)
2.0%
2.0%
PGL
1.5% (USUAL)

PROPOSED FM 664 BYPASS A
TYPICAL SECTION
STA. 10+51 TO 13+38



EXIST ROW
4:1 (MAX)
FOC
1.5% (USUAL)



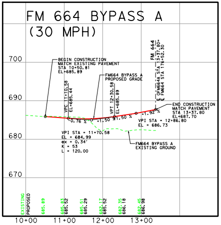
275'
DECELERATION
(UNLESS NOTED OTHERWISE)
100'
STORAGE
50'
TAPER
R 14.5'

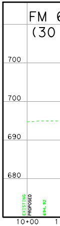
TYPICAL LEFT-TURN BAY DETAILS

N.T.S

HORIZONTAL ALIGNMEN

CHAIN NO.	POT STA	POT-NORTHING	POT-EASTING	BEARING
OFM664A	10+00.00	6,851,861.05	2,469,767.69	N 88° 42' 09.75" E
	12+66.67	6,851,931.24	2,470,019.41	N 53° 21' 57.89" E
OFM664B	10+00.00	6,852,411.72	2,468,975.97	N 0° 47' 25.11" W
	14+13.70	6,852,789.22	6,852,789.22	N 49° 28' 34.97" E





SUPERELEVATION TABLE

CHAIN ID.	BEGIN TRANSITION		END TRANSITION	
	STA	e	STA	e
FM 664 NORTHBOUND	152+50.00	2.00%	156+00.00	-2.00%
FM 664 SOUTHBOUND	152+50.00	-2.00%	156+00.00	-2.00%

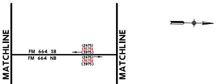
CURVE DATA TABLE

CURVE NO.	DELTA	DEGREE	TANGENT	LENGTH	RADUIS	PI STA	PC STA	PT STA
FM664-7	49° 40' 45.22" (LT)	5° 12' 31.35"	509.19'	953.77'	1,100.00'	173+33.69	168+24.50	177+78.27
FM664-8	49° 48' 57.20" (RT)	3° 49' 10.99"	696.53'	1,304.18'	1,500.00'	191+40.05	184+43.53	197+47.70
OFM664A-1	35° 20' 11.86" (LT)	16° 22' 12.80"	111.49'	215.86'	350.00'	11+62.30	10+50.81	12+66.67
OFM664B-1	50° 16' 00.08" (RT)	16° 22' 12.80"	164.20'	307.06'	350.00'	12+70.84	11+06.64	14+13.70

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

TRAFFIC PROJECTIONS BASED ON NCTCOG TDM AND CORRIDOR INFORMATION PACKET PROVIDED BY TPP. UPDATED JANUARY 29, 2019

TRAFFIC VOLUME
DIAGRAM
OF FM 664

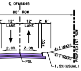


MATCHLINE
MATCHLINE
FM 664 SB
FM 664 NB
(2475)
[3575]
[3975]
(2475)
[3575]
[3975]

TRAFFIC DIAGRAM

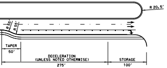
N.T.S.

PRELIMINARY
NOT INTENDED FOR CONSTRUCTION
OR BIDDING PURPOSES



℄ OFM664B
80' ROW
12'
12'
2'
6'
LANE
LANE
2.0%
2.0%
FOC
PROP/EXIST ROW
4:1 (MAX)
4:1 (MAX)
PGL
1.5% (USUAL)

ED FM 664 BYPASS B
PICAL SECTION
11+07 TO 14+86

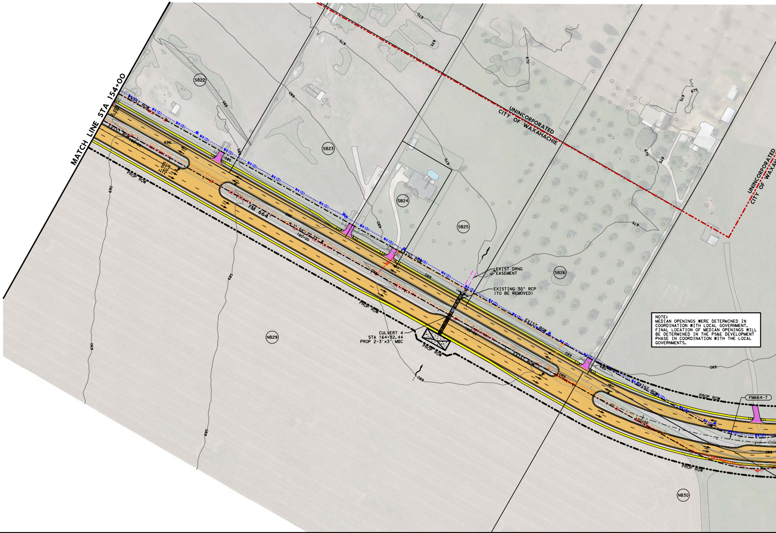


R 20.5'
R 55'
R 55'
TAPER
50'
DECELERATION
(UNLESS NOTED OTHERWISE)
275'
STORAGE
100'

TYPICAL RIGHT-TURN BAY DETAILS
N.T.S

NT DATA

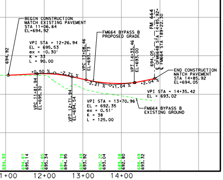
POT STA	POT-NORTHING	POT-EASTING
10+50.81	6,851,862.20	2,469,818.49
13+37.80	6,851,973.69	2,470,076.49
11+06.64	6,852,518.34	2,468,974.50
14+85.92	6,852,836.15	2,469,151.95



MATCH LINE STA 154+00
SB22
SB23
SB24
SB25
SB26
NB29
NB30
UNINCORPORATED
CITY OF WAXAHACHIE
FM 664
EXIST ROW
PROP ROW
EXIST DRNG EASEMENT
EXISTING 30" RCP (TO BE REMOVED)
CULVERT 4
STA 164+32.44
PROP 2-3'x3' MBC
FM664-7

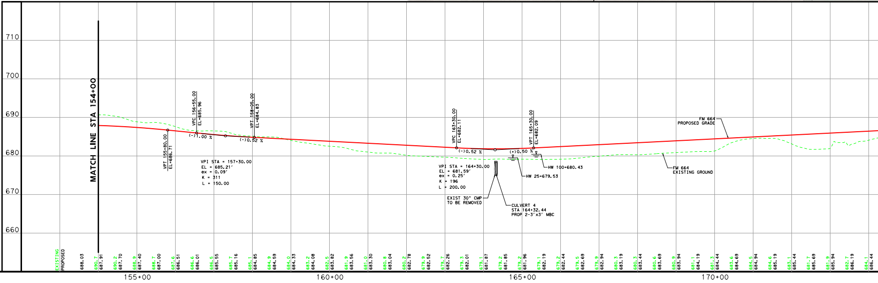
NOTE:
MEDIAN OPENINGS WERE DETERMINED IN COORDINATION WITH LOCAL GOVERNMENT. FINAL LOCATION OF MEDIAN OPENINGS WILL BE DETERMINED IN THE PS&E DEVELOPMENT PHASE IN COORDINATION WITH THE LOCAL GOVERNMENTS.

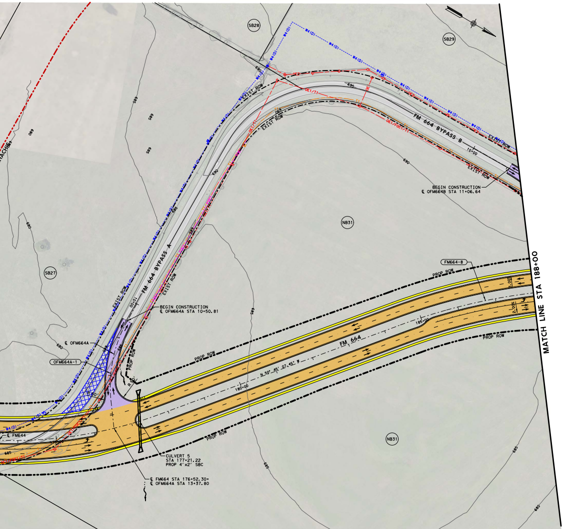
664 BYPASS B
MPH)

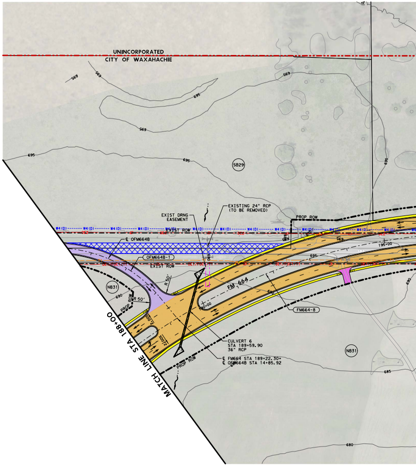


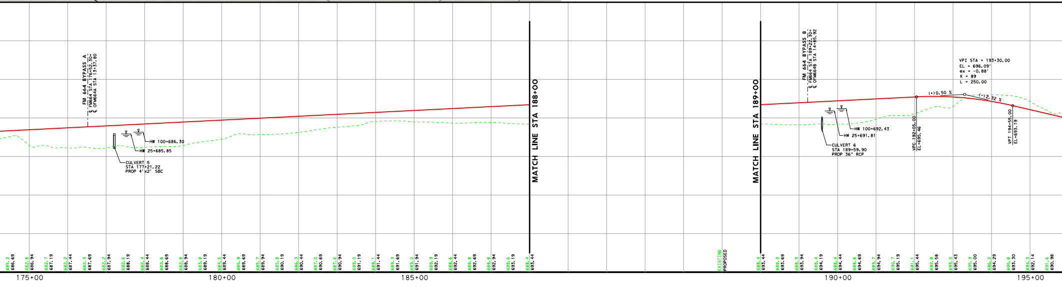
OWNER INFORMATION TABLE

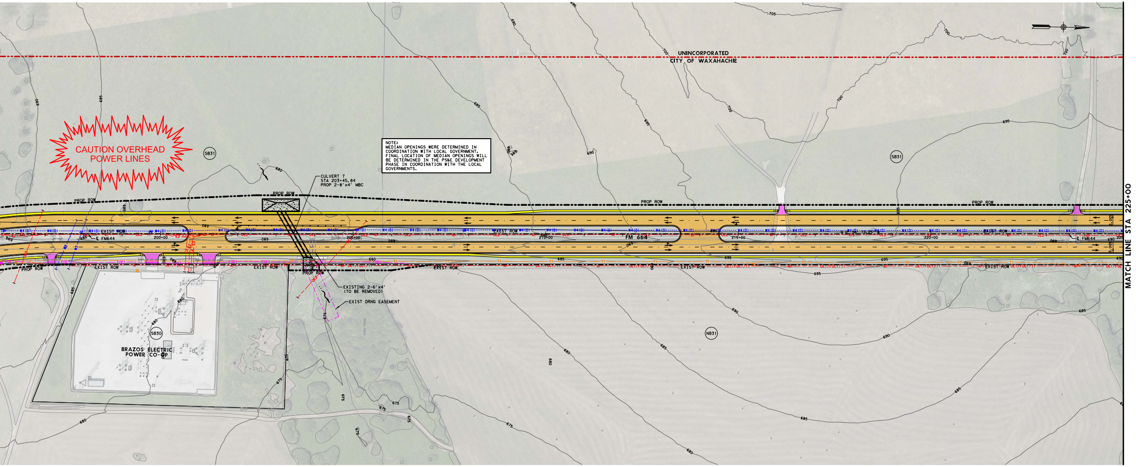
ID	NAME	STREET ADDRESS
NB29	ALLEN ANN ETAL	PATRICK RD
NB30	ALLEN ANN ETAL	PATRICK RD
NB31	ALLEN ANN GRAHAM ETAL	FM 664
SB21	BYERYS MARY EVAN TRUSTEE AND SUCCESSOR	1207 OVILLA RD
SB22	KUN HONG THONG & CHHENG LEANG CHIEK	FM664
SB23	WALKER ALEX L & DERONDA J	FM664
SB24	COSTLOW GARY & ANGIE G	1301 OVILLA RD
SB25	DAVIS ROBERT A SR & SHERRY	FM664
SB26	DAVIS ROBERT A & SHERRY BETH	FM 664
SB27	SHIELDS LONNIE N	FM 664
SB28	HAMAN COROLYN J L/E	FM 664
SB29	HAMAN COROLYN J L/E	FM 664
SB30	BRAZOS ELECTRIC POWER COOP INC	1550 FM 664
SB31	FINCH FP LTD	2488 BLACK CHAMP RD

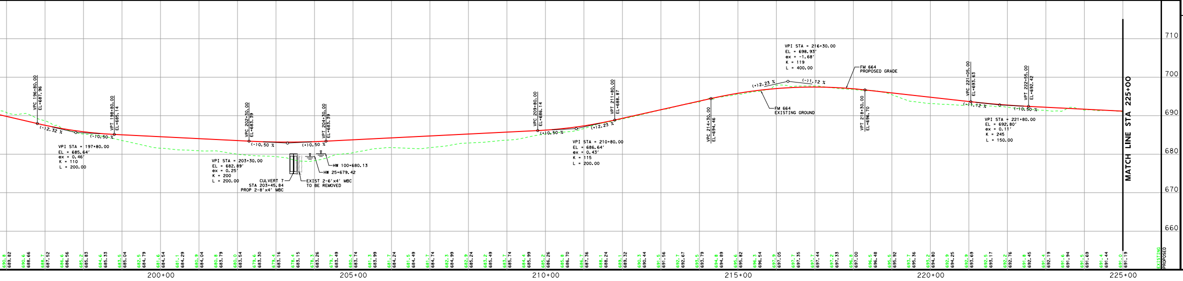



SB28
SB29
SB27
NB31
NB31
W4(D)
EXIST ROW
FM 664 BYPASS B
10+00
EXIST ROW
BEGIN CONSTRUCTION
℄ OFM664B STA 11+06.64
FM 664 BYPASS A
EXIST ROW
10+00
BEGIN CONSTRUCTION
℄ OFM664A STA 10+50.81
℄ OFM664A
OFM664A-1
℄ FM644
FM664-8
PROP ROW
PROP ROW
PROP ROW
PROP ROW
FM 664
N 50° 46' 07.45" W
180+00
185+00
CULVERT 5
STA 177+21.22
PROP 4'x2' SBC
℄ FM664 STA 176+52.30=
℄ OFM664A STA 13+37.80
MATCH LINE STA 188+00
690
685
680


UNINCORPORATED
CITY OF WAXAHACHIE
SB29
NB31
NB31
EXISTING 24" RCP
(TO BE REMOVED)
EXIST DRNG
EASEMENT
PROP ROW
EXIST ROW
W4(D)
℄ OFM664B
OFM664B-1
EXIST ROW
R 50'
R 50'
FM 664
195+00
FM664-8
CULVERT 6
STA 189+59.90
36" RCP
℄ FM664 STA 189+22.30=
℄ OFM664B STA 14+85.92
MATCH LINE STA 188+00
PROP ROW
695
690
685
680


FM 664 BYPASS A
℄ FM664 STA 176+52.30=
℄ OFM664A STA 13+37.80
HW 100=686.30
HW 25=685.85
CULVERT 5
STA 177+21.22
PROP 4'x2' SBC
MATCH LINE STA 188+00
MATCH LINE STA 189+00
FM 664 BYPASS B
℄ FM664 STA 189+22.30=
℄ OFM664B STA 14+85.92
HW 100=692.43
HW 25=691.81
CULVERT 6
STA 189+59.90
PROP 36" RCP
VPI STA = 193+30.00
EL = 696.09'
ex = -0.88'
K = 89
L = 250.00
(+)0.50 %
(-)2.32 %
VPC 192+05.00
EL=695.46
VPT 194+55.00
EL=693.19
EXISTING
PROPOSED
685.2 686.69
682.8 686.94
682.7 687.19
682.2 687.44
682.3 687.69
682.2 687.94
682.6 688.19
682.4 688.44
682.6 688.69
682.8 688.94
683.8 689.19
684.5 689.44
685.9 689.69
685.7 689.94
685.8 690.19
686.3 690.44
687.0 690.69
687.6 690.94
688.0 691.19
689.1 691.44
689.3 691.69
689.0 691.94
688.9 692.19
688.6 692.44
688.8 692.69
688.8 692.94
688.6 693.19
688.4 693.44
688.4 693.44
688.3 693.69
688.3 693.94
688.4 694.19
688.4 694.44
688.6 694.69
689.7 694.94
690.7 695.19
691.1 695.44
692.8 695.58
693.0 695.43
695.9 695.00
696.0 694.29
695.8 693.30
694.3 692.14
691.6 690.98
175+00
180+00
185+00
190+00
195+00


CAUTION OVERHEAD POWER LINES
SB31
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.
UNINCORPORATED
CITY OF WAXAHACHIE
CULVERT 7
STA 203+45.84
PROP 2-8'x4' MBC
PROP ROW
EXIST ROW
℄ FM644
200+00
205+00
210+00
215+00
220+00
FM 664
EXISTING 2-6'x4'
(TO BE REMOVED)
EXIST DRNG EASEMENT
SB30
BRAZOS ELECTRIC POWER CO-OP
NB31
MATCH LINE STA 225+00
680
685
690
695
700
705



Texas Department of Transportation®

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

FARM TO MARKET ROAD 664 (OVILLA RD)

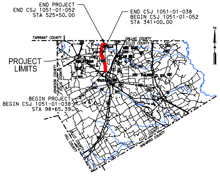
PROJECT LIMIT:
FROM US 287 TO WESTMORELAND RD

CSJ: 1051-01-038
1051-01-052

FUNCTIONAL CLASS: MINOR URBAN ARTERIAL

DESIGN SPEED: 40 mph FM 664
30 mph CROSS-ST
25 mph MAIN ST

PROJECT LENGTH: 8.084 MILES


END PROJECT
END CSJ 1051-01-052
STA 525+50.00
END CSJ 1051-01-038
BEGIN CSJ 1051-01-052
STA 341+00.00
TARRANT COUNTY
DALLAS COUNTY
ELLIS COUNTY
PROJECT LIMITS
JOHNSON COUNTY
BEGIN PROJECT
BEGIN CSJ 1051-01-038
STA 98+65.39
HILL COUNTY
NAVARRO COUNTY
N

ELLIS COUNTY

LOCATION MAP
N.T.S.

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

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

OCTOBER 2019

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

DATE SUBMITTED
10/11/2019

DATE APPROVED

DATE REVISED

ROLL 2 OF 6

PRELIMINARY
FOR INTERIM REVIEW ONLY. NOT FOR PERMITTING, BIDDING, OR CONSTRUCTION.
Prepared by or under the Direct Supervision of
HOWARD C. GIBBS III, P.E. 100239
10/11/2019

NOT INTENDED FOR CONSTRUCTION, BIDDING, OR PERMIT PURPOSES

100% SUBMITTAL

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

Texas Department of Transportation®

DALLAS DISTRICT
DESIGN SCHEMATIC

MOHAMED K. BUR, P.E., DISTRICT ENGINEER
ELLIS COUNTY

FARM TO MARKET ROAD 664 (OVILLA RD)

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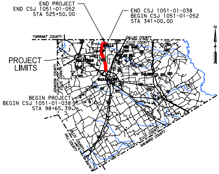
END PROJECT
END CSJ 1051-01-052
STA 525+50.00
END CSJ 1051-01-038
BEGIN CSJ 1051-01-052
STA 341+00.00
PROJECT LIMITS
BEGIN PROJECT
BEGIN CSJ 1051-01-038
STA 98+65.39
TARRANT COUNTY
DALLAS COUNTY
ELLIS COUNTY
JOHNSON COUNTY
ELLIS COUNTY
HILL COUNTY
ELLIS COUNTY
NAVARRO COUNTY
OVILLA
RED OAK
MIDLOTHIAN
WAXAHACHIE
PALMER
N

ELLIS COUNTY

LOCATION MAP
N.T.S.

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

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

OCTOBER 2019

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

DATE SUBMITTED
10/11/2019

DATE APPROVED

DATE REVISED

ROLL 3 OF 6

PRELIMINARY
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Prepared by or under the Direct Supervision of
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10/11/2019

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100% SUBMITTAL

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

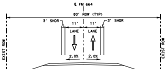
FILE NAME: M:\PROJECTS\TxDOT\FM 664\DGN\ULTIMATE SCHEMATICS\FM664_ROLL 3.dgn

LEGEND:

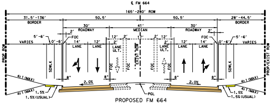
🟧	PROPOSED MAINLANES
▨	PAVEMENT TO BE REMOVED
🟪	PROPOSED DRIVEWAYS
🟪	PROPOSED CROSS STREETS
🟫	TEMPORARY PAVEMENT
🟧	PROPOSED BRIDGE STRUCTURES
🟨	PROPOSED SIDEWALKS
▨	PROPOSED DISPLACEMENTS
▨	PROPOSED DRAINAGE EASEMENT
═	PROPOSED DRAINAGE STRUCTURE
🟦	100 YR FLOODPLAIN
- - -	EXISTING ROW
━ ━ ━	PROPOSED ROW
— · —	PROPOSED CENTERLINE/BASELINE
▬	PROPOSED RETAINING WALL
(XXXXX)	CURVE NUMBER
→	DIRECTION OF TRAVEL
↝	DIRECTION OF FLOW
(XXXX)	PARCEL ID NUMBER
⚑	SCHOOL
◆	HAZARDOUS MATERIALS SITE
●	THC HISTORICAL MARKER
✝	CHURCH
◆	THC NEIGHBORHOOD SURVEY STRUCTURE

NOTES:

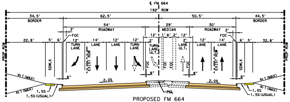
1. EXISTING FEATURES WERE NOT FIELD SURVEYED. SCHEMATICS ARE BASED ON AERIAL SURVEYS DATED OCTOBER 2017 AND RECORD PLANS.
2. ADA RAMPS ARE NOT DEPICTED ON THE PLAN. THE EXACT LOCATIONS OF ADA RAMPS AND SIDEWALKS WILL BE DETERMINED DURING THE FINAL DESIGN THROUGH COORDINATION BETWEEN TxDOT AND LOCAL GOVERNMENTS.
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 FINAL DESIGN.
5. BUILDINGS ARE SHOWN AS POTENTIAL DISPLACEMENTS IF THE PROPOSED ROW PHYSICALLY INTERSECTS THE EXISTING BUILDING STRUCTURE OR ACCESS IS ELIMINATED BY WALL.
6. UNLESS OTHERWISE NOTED, EXISTING PAVEMENT AND BRIDGES LOCATED WITHIN LIMITS OF PROPOSED RECONSTRUCTION WILL BE REMOVED.
7. DIMENSIONS ARE TO FACE OF CURB OR TO THE EDGE OF UNCURBED PAVEMENT UNLESS NOTED OTHERWISE.
8. SUPERELEVATION AXIS OF ROTATION IS ABOUT THE PGL.
9. DIMENSIONS ARE TO THE EDGE OF PAVEMENT OR NOMINAL FACE OF CURB, RAIL, BARRIER OR WALL (UNLESS NOTED OTHERWISE).
10. APPROXIMATE 100 YEAR FLOODPLAIN LIMITS ARE BASED UPON FEMA FLOOD INSURANCE RATE MAP 48139C0050F.
11. OWNERSHIP INFORMATION SHOWN ON SCHEMATIC OBTAINED FROM ELLIS COUNTY APPRAISAL DISTRICT (JUNE 2018).
12. ALL CURBS ARE TYPE II UNLESS NOTED OTHERWISE.


℄ FM 664
80' ROW (TYP)
3' SHDR
11'
11'
3' SHDR
LANE
LANE
2.0%
2.0%
EXIST ROW
EXIST ROW

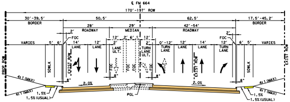
EXISTING FM 664
TYPICAL SECTION


℄ FM 664
165'-280' ROW
31.5'-136'
BORDER
50.5'
50.5'
28'-44.5'
BORDER
30'
ROADWAY
41'
MEDIAN
30'
ROADWAY
2'
5'-6'
FOC
VARIES
0'-6'
14'
LANE
12'
LANE
12'
2'
LANE ULT.
17'
2'
12'
LANE ULT.
12'
LANE
14'
LANE
FOC
5'-6'
0'-6'
VARIES
PROP ROW
EXIST ROW
PROP/EXIST ROW
SDWLK
SDWLK
FOC
8"
2.0%
2.0%
4:1 (MAX)
1.5%
1.5% (USUAL)
PGL

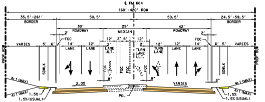
PROPOSED FM 664
TYPICAL SECTION
STA 214+50 TO 226+50
STA 227+50 TO 237+82
STA 246+02 TO 251+20
STA 259+71 TO 264+50
STA 269+27 TO 269+40
STA 278+12 TO 284+50
STA 285+50 TO 293+81
STA 294+81 TO 308+50


℄ FM 664
192' ROW
34.5'
BORDER
62.5'
50.5'
44.5'
BORDER
54'
ROADWAY
29'
MEDIAN
30'
ROADWAY
22.8'
5'
6'
FOC
12'
TURN LANE
14'
LANE
12'
LANE
12'
TURN LANE
TURN LANE ULT.
LANE ULT.
12'
LANE
14'
LANE
5'
6'
32.8'
PROP ROW
EXIST ROW
SDWLK
FOC
8"
2.0%
4:1 (MAX)
1.5%
1.5% (USUAL)
PGL

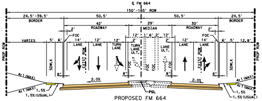
PROPOSED FM 664
TYPICAL SECTION
STA 274+39 TO 278+12


℄ FM 664
170'-197' ROW
30'-39.5'
BORDER
50.5'
62.5'
17.5'-45.2'
BORDER
28'
ROADWAY
29'
MEDIAN
42'-54'
ROADWAY
VARIES
5'
6'
FOC
14'
LANE
12'
LANE
12'
LANE ULT.
TURN LANE ULT.
0'-12'
TURN LANE
12'
LANE
14'
LANE
12'
TURN LANE
5'
6'
VARIES
PROP ROW
EXIST ROW
SDWLK
FOC
8"
2.0%
4:1 (MAX)
1.5%
1.5% (USUAL)
PGL

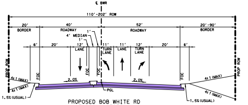
PROPOSED FM 664
TYPICAL SECTION
STA 237+57 TO 241+69
STA 269+40 TO 273+14


℄ FM 664
160'-420' ROW
35.5'-261'
BORDER
50.5'
50.5'
24.5'-59.5'
BORDER
30'
ROADWAY
29'
MEDIAN
42'
ROADWAY
2'
FOC
VARIES
5'
6'
14'
LANE
12'
LANE
12'
2'
LANE ULT.
2'
6'
1'
12'
2'
TURN LANE ULT.
12'
TURN LANE
12'
LANE
14'
LANE
FOC
6'
5'
VARIES
PROP ROW
SDWLK
FOC
8"
2.0%
VARIES
4:1 (MAX)
1.5%
1.5% (USUAL)
PGL

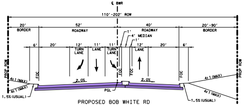
PROPOSED FM 664
TYPICAL SECTION
STA 251+20 TO 254+97


℄ FM 664
150'-165' ROW
24.5'-39.5'
BORDER
50.5'
50.5'
24.5'
BORDER
42'
ROADWAY
29'
MEDIAN
30'
ROADWAY
2'
FOC
VARIES
5'
6'
14'
LANE
12'
LANE
12'
TURN LANE
12'
2'
TURN LANE ULT.
1'
6'
2'
12'
2'
LANE ULT.
12'
LANE
14'
LANE
FOC
6'
5'
12.8'
PROP ROW
EXIST ROW
SDWLK
FOC
8"
2.0%
4:1 (MAX)
1.5%
1.5% (USUAL)
PGL

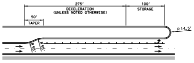
PROPOSED FM 664
TYPICAL SECTION
STA 242+44 TO 246+02
STA 255+97 TO 259+71
STA 265+52 TO 269+27


℄ BWR
110'-202' ROW
20'
BORDER
40'
ROADWAY
52'
ROADWAY
20'-90'
BORDER
1'
4' MEDIAN
1'
6'
20'
12'
LANE
11'
TURN LANE
11'
LANE
12'
TURN LANE
20'
6'
PROP ROW
FOC
2.0%
2.0%
4:1 (MAX)
1.5% (USUAL)
PGL

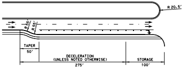
PROPOSED BOB WHITE RD
TYPICAL SECTION
STA. 15+35 TO 16+59


℄ BWR
110'-202' ROW
20'
BORDER
52'
ROADWAY
40'
ROADWAY
20'-90'
BORDER
1'
4' MEDIAN
1'
6'
20'
12'
TURN LANE
11'
LANE
11'
TURN LANE
12'
LANE
20'
6'
PROP ROW
FOC
2.0%
2.0%
4:1 (MAX)
1.5% (USUAL)
PGL

PROPOSED BOB WHITE RD
TYPICAL SECTION
STA. 17+85 TO 19+02


275'
DECELERATION
(UNLESS NOTED OTHERWISE)
100'
STORAGE
50'
TAPER
R 14.5'
R 55'
R 55'

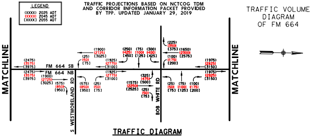
TYPICAL LEFT-TURN BAY DETAILS
N.T.S


R 20.5'
R 55'
R 55'
TAPER
50'
DECELERATION
(UNLESS NOTED OTHERWISE)
275'
STORAGE
100'

TYPICAL RIGHT-TURN BAY DETAILS
N.T.S

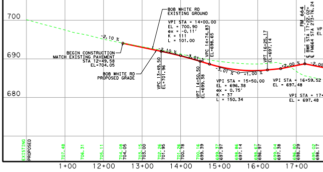
TRAFFIC PROJECTIONS BASED ON NCTCOG TDM AND CORRIDOR INFORMATION PACKET PROVIDED BY TPP. UPDATED JANUARY 29, 2019

TRAFFIC VOLUME DIAGRAM OF FM 664


LEGEND
(XXXX) 2025 ADT
[XXXX] 2045 ADT
[XXXX] 2055 ADT
MATCHLINE
MATCHLINE
FM 664 SB
FM 664 NB
S WESTMORELAND RD
BOB WHITE RD
(2475) [3575] [3975]
(2475) [3575] [3975]
(1900) [2725] [3025]
(1900) [2725] [3025]
(25) [50] [75]
(1925) [2775] [3100]
(1925) [2775] [3100]
(250) [425] [450]
(75) [100] [125]
(300) [400] [425]
(225) [350] [375]
(1650) [2300] [2575]
(100) [175] [200]
(1975) [2825] [3150]
(1975) [2825] [3150]
(575) [850] [950]
(575) [850] [950]
(25) [50] [75]
(325) [475] [500]
(1575) [2250] [2525]
(25) [50] [75]
(25) [50] [75]
(75) [100] [125]
(100) [175] [200]

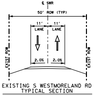
TRAFFIC DIAGRAM
N.T.S.

BOB WHITE ROAD (30 MPH)

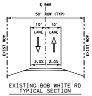


PRELIMINARY

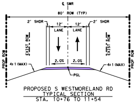
NOT INTENDED FOR CONSTRUCTION
OR BIDDING PURPOSES


℄ SWR
50' ROW (TYP)
11'
11'
LANE
LANE
2.0%
2.0%
EXIST ROW
EXIST ROW

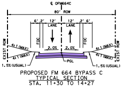
EXISTING S WESTMORELAND RD
TYPICAL SECTION


℄ BWR
50' ROW (TYP)
10'
10'
LANE
LANE
2.0%
2.0%
EXIST ROW
EXIST ROW

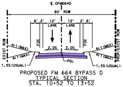
EXISTING BOB WHITE RD
TYPICAL SECTION


℄ SWR
80' ROW (TYP)
2' SHDR
12'
12'
2' SHDR
LANE
LANE
2.0%
2.0%
4:1 (MAX)
4:1 (MAX)
PGL
EXIST ROW
EXIST ROW
PROP ROW
PROP ROW

PROPOSED S WESTMORELAND RD
TYPICAL SECTION
STA. 10+76 TO 11+54


℄ OFM664C
80' ROW
6' 2' 12' 12' 2' 6'
LANE
LANE
2.0%
2.0%
FOC
FOC
4:1 (MAX)
4:1 (MAX)
1.5% (USUAL)
1.5% (USUAL)
PGL
EXIST ROW
EXIST ROW

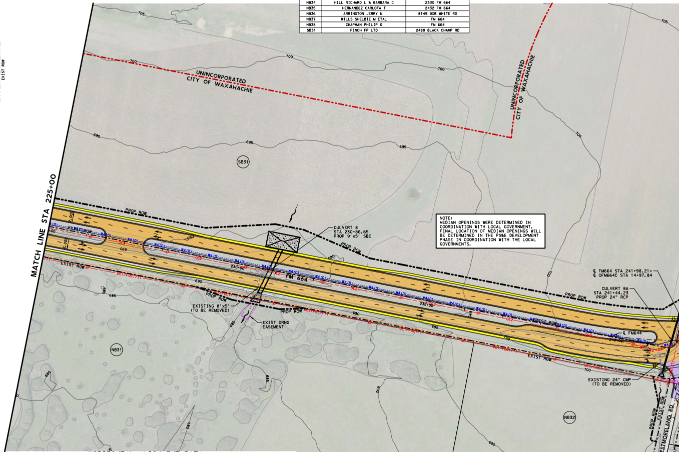
PROPOSED FM 664 BYPASS C
TYPICAL SECTION
STA. 11+30 TO 14+27


℄ OFM664D
80' ROW
6' 2' 12' 12' 2' 6'
LANE
LANE
2.0%
2.0%
FOC
FOC
4:1 (MAX)
4:1 (MAX)
1.5% (USUAL)
1.5% (USUAL)
PGL
EXIST ROW
PROP/EXIST ROW

PROPOSED FM 664 BYPASS D
TYPICAL SECTION
STA. 10+52 TO 13+52

OWNER INFORMATION TABLE

ID	NAME	STREET ADDRESS
NB31	ALLEN ANN GRAHAM ETAL	FM 664
NB32	ALLEN ANN GRAHAM ETAL	S WESTMORELAND RD
NB33	ALLEN ANN GRAHAM ETAL	S WESTMORELAND RD
NB34	HILL RICHARD L & BARBARA C	2330 FM 664
NB35	HERNANDEZ CARLOTA T	2432 FM 664
NB36	ARRINGTON JERRY N	8149 BOB WHITE RD
NB37	WILLS SHELBIE M ETAL	FM 664
NB38	CHAPMAN PHILIP G	FM 664
SB31	FINCH FP LTD	2488 BLACK CHAMP RD


MATCH LINE STA 225+00
UNINCORPORATED
CITY OF WAXAHACHIE
UNINCORPORATED
CITY OF WAXAHACHIE
705
700
695
690
685
SB31
NB31
NB32
PROP ROW
EXIST ROW
FM 664
230+00
235+00
240+00
CULVERT 8
STA 230+86.65
PROP 9'x5' SBC
EXISTING 8'x5'
(TO BE REMOVED)
EXIST DRNG
EASEMENT
℄ FM664 STA 241+98.21=
℄ OFM664C STA 14+97.84
CULVERT 8A
STA 241+44.23
PROP 24" RCP
℄ FM644
EXISTING 24" CMP
(TO BE REMOVED)
S WESTMORELAND RD

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.

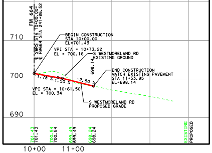
HORIZONTAL ALIGNMENT DATA

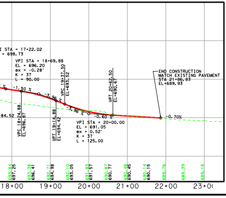
CHAIN NO.	POT STA	POT-NORTHING	POT-EASTING	BEARING	POT STA	POT-NORTHING	POT-EASTING
OFM664C	10+00.00	6,858,056.32	2,468,314.65	N 89° 07' 38.83" E	14+97.84	6,858,063.90	2,468,812.43
OFM664D	10+00.00	6,858,806.49	2,467,958.35	N 1° 08' 57.99" W	10+81.24	6,858,887.71	2,467,956.72
	13+47.83	6,859,131.15	2,468,048.56	N 42° 29' 27.32" E	14+19.84	6,859,184.25	2,468,097.20
SWRS	10+00.00	6,858,052.52	2,468,814.99	N 59° 44' 15.99" E	13+59.91	6,858,050.95	2,469,174.90
BWR	10+00.00	6,860,982.31	2,467,198.50	N 89° 22' 16.08" E	25+10.70	6,860,998.89	2,468,709.11

CURVE DATA TABLE

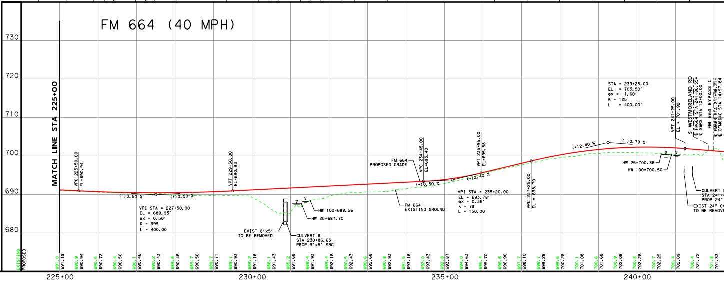
CURVE NO.	DELTA	DEGREE	TANGENT	LENGTH	RADUIS	PI STA	PC STA	PT STA
FM664-9	40° 47' 20.98" (LT)	3° 49' 10.99"	557.68'	1067.86'	1,500.00'	244+42.41	238+84.72	249+52.58
FM664-10	40° 34' 36.36" (RT)	4° 54' 55.88"	430.90'	825.48'	1165.61'	257+27.28	252+96.38	261+21.86
OFM664D-1	16° 22' 12.80"	16° 22' 12.80"	140.13'	266.58'	350.00'	12+21.38	10+81.24	13+47.83

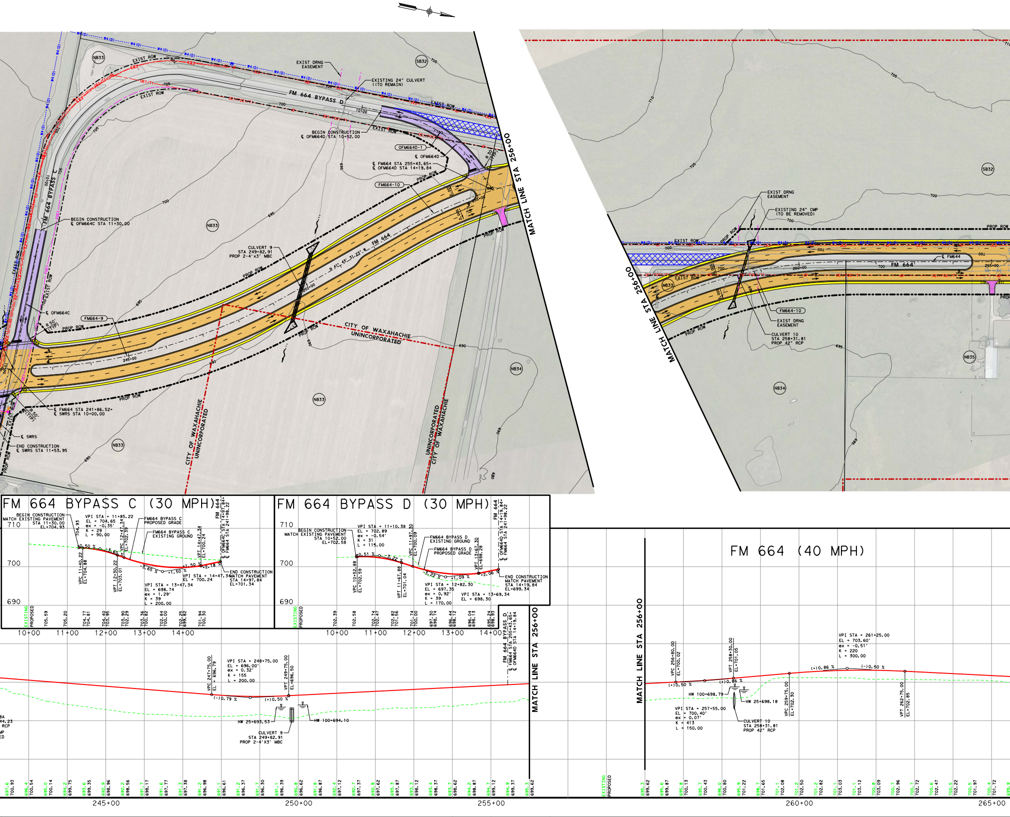
S WESTMORELAND ROAD (30 MPH)

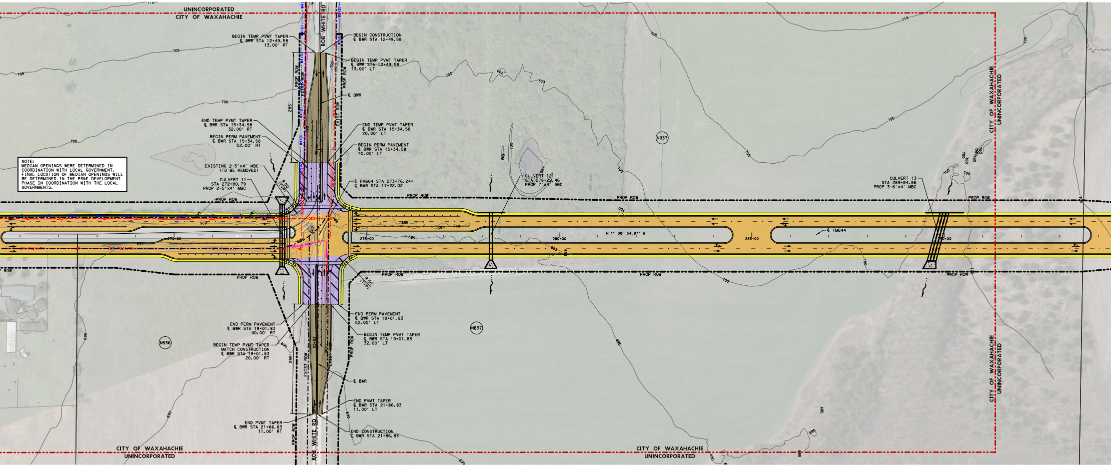




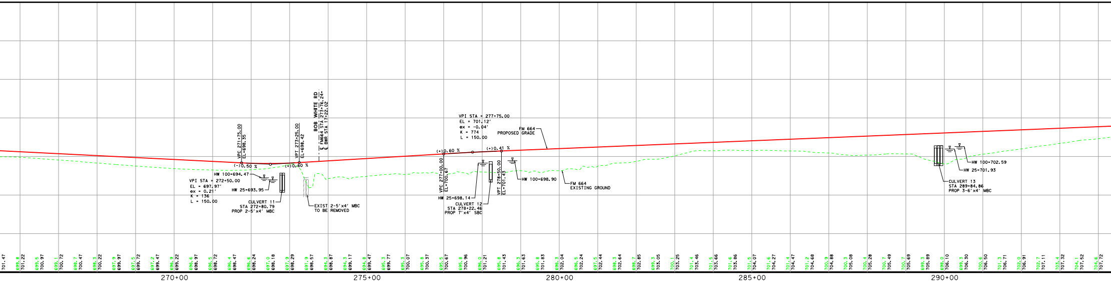
FM 664 (40 MPH)

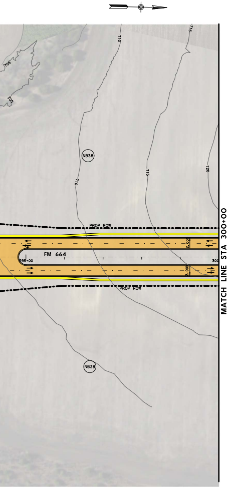


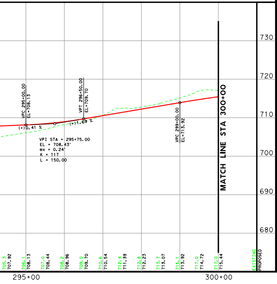

EXIST DRNG EASEMENT
EXISTING 24" CULVERT (TO REMAIN)
FM 664 BYPASS D
EXIST ROW
BEGIN CONSTRUCTION
℄ OFM664D STA 10+52.00
OFM664D-1
℄ OFM664D
℄ FM664 STA 255+43.65=
℄ OFM664D STA 14+19.84
FM664-10
PROP ROW
BEGIN CONSTRUCTION
℄ OFM664C STA 11+30.00
FM 664 BYPASS C
CULVERT 9
STA 249+82.91
PROP 2-4'x3' MBC
FM 664
℄ OFM664C
FM664-9
R 50' (TYP)
CITY OF WAXAHACHIE
UNINCORPORATED
℄ FM664 STA 241+86.52=
℄ SWRS STA 10+00.00
℄ SWRS
END CONSTRUCTION
℄ SWRS STA 11+53.95
NB33
NB34
NB35
SB32
MATCH LINE STA 256+00
EXIST DRNG EASEMENT
EXISTING 24" CMP (TO BE REMOVED)
CULVERT 10
STA 258+31.81
PROP 42" RCP
FM664-10
FM 664 BYPASS C (30 MPH)
BEGIN CONSTRUCTION
MATCH EXISTING PAVEMENT
STA 11+30.00
EL=704.93
VPI STA = 11+85.22
EL = 704.65
ex = -0.35'
K = 29
L = 90.00
FM664 BYPASS C PROPOSED GRADE
FM664 BYPASS C EXISTING GROUND
VPI STA = 13+47.34
EL = 698.74
ex = 1.29'
K = 39
L = 200.00
VPI STA = 14+47.34
EL = 700.24
END CONSTRUCTION
MATCH PAVEMENT
STA 14+97.84
EL=701.34
FM 664 BYPASS D (30 MPH)
BEGIN CONSTRUCTION
MATCH EXISTING PAVEMENT
STA 10+52.00
EL=702.58
VPI STA = 11+10.38
EL = 702.89
ex = -0.54'
K = 31
L = 115.00
FM664 BYPASS D EXISTING GROUND
FM664 BYPASS D PROPOSED GRADE
VPI STA = 12+82.30
EL = 697.35
ex = 0.92'
K = 39
L = 170.00
VPI STA = 13+69.34
EL = 698.30
END CONSTRUCTION
MATCH PAVEMENT
STA 14+19.84
EL=699.34
FM 664 (40 MPH)
VPI STA = 248+75.00
EL = 696.00'
ex = 0.32'
K = 155
L = 200.00
HW 25=693.53
HW 100=694.10
CULVERT 9
STA 249+82.91
PROP 2-4'X3' MBC
VPI STA = 257+55.00
EL = 700.40'
ex = 0.07'
K = 413
L = 150.00
HW 100=698.79
HW 25=698.18
CULVERT 10
STA 258+31.81
PROP 42" RCP
VPI STA = 261+25.00
EL = 703.60'
ex = -0.51'
K = 220
L = 300.00
245+00
250+00
255+00
260+00
265+00


UNINCORPORATED
CITY OF WAXAHACHIE
BOB WHITE RD
BEGIN TEMP PVMT TAPER ℄ BWR STA 12+49.58 13.00' RT
BEGIN CONSTRUCTION ℄ BWR STA 12+49.58
BEGIN TEMP PVMT TAPER ℄ BWR STA 12+49.58 13.00' LT
PROP ROW
EXIST ROW
285'
℄ BWR
END TEMP PVMT TAPER ℄ BWR STA 15+34.58 32.00' RT
BEGIN PERM PAVEMENT ℄ BWR STA 15+34.58 52.00' RT
END TEMP PVMT TAPER ℄ BWR STA 15+34.58 20.00' LT
BEGIN PERM PAVEMENT ℄ BWR STA 15+34.58 40.00' LT
EXISTING 2-5'x4' MBC (TO BE REMOVED)
CULVERT 11 STA 272+80.79 PROP 2-5'x4' MBC
℄ FM664 STA 273+76.24= ℄ BWR STA 17+22.02
R 50' (TYP)
CULVERT 12 STA 278+22.46 PROP 7'x4' SBC
CULVERT 13 STA 289+84.86 PROP 3-6'x4' MBC
N 1° 08' 54.87" W
℄ FM644
270+00
275+00
280+00
285+00
290+00
NB36
NB37
705
700
695
690
710
END PERM PAVEMENT ℄ BWR STA 19+01.83 40.00' RT
BEGIN TEMP PVMT TAPER MATCH CONSTRUCTION ℄ BWR STA 19+01.83 20.00' RT
END PERM PAVEMENT ℄ BWR STA 19+01.83 52.00' LT
BEGIN TEMP PVMT TAPER ℄ BWR STA 19+01.83 32.00' LT
END PVMT TAPER ℄ BWR STA 21+86.83 11.00' RT
END PVMT TAPER ℄ BWR STA 21+86.83 11.00' LT
END CONSTRUCTION ℄ BWR STA 21+86.83
CITY OF WAXAHACHIE
UNINCORPORATED

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.




705
705
710
715
710
715
720
NB38
PROP ROW
FM 664
295+00
300
2.00%
2.00%
PROP ROW
NB38
MATCH LINE STA 300+00



Texas Department of Transportation ®

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

FARM TO MARKET ROAD 664 (OVILLA RD)

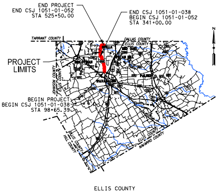
PROJECT LIMIT:
FROM US 287 TO WESTMORELAND RD

CSJ: 1051-01-038
1051-01-052

FUNCTIONAL CLASS: MINOR URBAN ARTERIAL

DESIGN SPEED: 40 mph FM 664
30 mph CROSS-ST
25 mph MAIN ST

PROJECT LENGTH: 8.084 MILES


END PROJECT
END CSJ 1051-01-052
STA 525+50.00
END CSJ 1051-01-038
BEGIN CSJ 1051-01-052
STA 341+00.00
TARRANT COUNTY
DALLAS COUNTY
ELLIS COUNTY
PROJECT LIMITS
JOHNSON COUNTY
ELLIS COUNTY
BEGIN PROJECT
BEGIN CSJ 1051-01-038
STA 98+65.39
ELLIS COUNTY
HILL COUNTY
ELLIS COUNTY
NAVARRO COUNTY
N
ELLIS COUNTY

LOCATION MAP
N.T.S.

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

OCTOBER 2019

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

DATE SUBMITTED
10/11/2019

DATE APPROVED

DATE REVISED

ROLL 3 OF 6

PRELIMINARY
FOR INTERIM REVIEW ONLY. NOT FOR PERMITTING, BIDDING, OR CONSTRUCTION.
Prepared by or under the Direct Supervision of
HOWARD C. GIBBS III, P.E. 100239
10/11/2019

NOT INTENDED FOR CONSTRUCTION, BIDDING, OR PERMIT PURPOSES

100% SUBMITTAL

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

Texas Department of Transportation®

DALLAS DISTRICT
DESIGN SCHEMATIC

MOHAMED K. BUR, P.E., DISTRICT ENGINEER
ELLIS COUNTY

FARM TO MARKET ROAD 664 (OVILLA RD)

PROJECT LIMIT:
FROM US 287 TO WESTMORELAND RD

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30 mph CROSS-ST
25 mph MAIN ST

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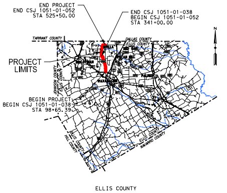
END PROJECT
END CSJ 1051-01-052
STA 525+50.00
END CSJ 1051-01-038
BEGIN CSJ 1051-01-052
STA 341+00.00
PROJECT LIMITS
BEGIN PROJECT
BEGIN CSJ 1051-01-038
STA 98+65.39
TARRANT COUNTY
DALLAS COUNTY
ELLIS COUNTY
JOHNSON COUNTY
HILL COUNTY
NAVARRO COUNTY
N
ELLIS COUNTY

LOCATION MAP
N.T.S.

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

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

OCTOBER 2019

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

DATE SUBMITTED
10/11/2019

DATE APPROVED

DATE REVISED

ROLL 4 OF 6

PRELIMINARY
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HOWARD C. GIBBS III, P.E. 100239
10/11/2019

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100% SUBMITTAL

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

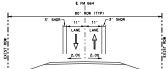
FILE NAME: M:\PROJECTS\TxDOT\FM 664\DGN\ULTIMATE SCHEMATICS\FM664_ROLL 4.dgn

LEGEND:

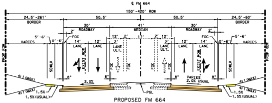
🟧	PROPOSED MAINLANES
▨	PAVEMENT TO BE REMOVED
🟪	PROPOSED DRIVEWAYS
🟪	PROPOSED CROSS STREETS
🟫	TEMPORARY PAVEMENT
🟧	PROPOSED BRIDGE STRUCTURES
🟨	PROPOSED SIDEWALKS
▨	PROPOSED DISPLACEMENTS
🟥	PROPOSED DRAINAGE EASEMENT
═	PROPOSED DRAINAGE STRUCTURE
🟦	100 YR FLOODPLAIN
- · -	EXISTING ROW
━ · ━	PROPOSED ROW
— · ·	PROPOSED CENTERLINE/BASELINE
⊓	PROPOSED RETAINING WALL
(XXXXX)	CURVE NUMBER
→	DIRECTION OF TRAVEL
↝	DIRECTION OF FLOW
(XXXX)	PARCEL ID NUMBER
⚑	SCHOOL
◆	HAZARDOUS MATERIALS SITE
●	THC HISTORICAL MARKER
✝	CHURCH
◆	THC NEIGHBORHOOD SURVEY STRUCTURE

NOTES:

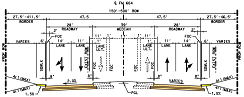
1. EXISTING FEATURES WERE NOT FIELD SURVEYED. SCHEMATICS ARE BASED ON AERIAL SURVEYS DATED OCTOBER 2017 AND RECORD PLANS.
2. ADA RAMPS ARE NOT DEPICTED ON THE PLAN. THE EXACT LOCATIONS OF ADA RAMPS AND SIDEWALKS WILL BE DETERMINED DURING THE FINAL DESIGN THROUGH COORDINATION BETWEEN TxDOT AND LOCAL GOVERNMENTS.
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 FINAL DESIGN.
5. BUILDINGS ARE SHOWN AS POTENTIAL DISPLACEMENTS IF THE PROPOSED ROW PHYSICALLY INTERSECTS THE EXISTING BUILDING STRUCTURE OR ACCESS IS ELIMINATED BY WALL.
6. UNLESS OTHERWISE NOTED, EXISTING PAVEMENT AND BRIDGES LOCATED WITHIN LIMITS OF PROPOSED RECONSTRUCTION WILL BE REMOVED.
7. DIMENSIONS ARE TO FACE OF CURB OR TO THE EDGE OF UNCURBED PAVEMENT UNLESS NOTED OTHERWISE.
8. SUPERELEVATION AXIS OF ROTATION IS ABOUT THE PGL.
9. DIMENSIONS ARE TO THE EDGE OF PAVEMENT OR NOMINAL FACE OF CURB, RAIL, BARRIER OR WALL (UNLESS NOTED OTHERWISE).
10. APPROXIMATE 100 YEAR FLOODPLAIN LIMITS ARE BASED UPON FEMA FLOOD INSURANCE RATE MAP 48139C0050F.
11. OWNERSHIP INFORMATION SHOWN ON SCHEMATIC OBTAINED FROM ELLIS COUNTY APPRAISAL DISTRICT (JUNE 2018).
12. ALL CURBS ARE TYPE II UNLESS NOTED OTHERWISE.


℄ FM 664
80' ROW (TYP)
3' SHDR
11'
11'
3' SHDR
LANE
LANE
2.0%
2.0%
EXIST ROW
EXIST ROW

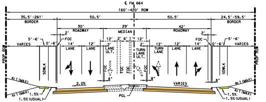
EXISTING FM 664
TYPICAL SECTION


℄ FM 664
150'-420' ROW
24.5'-261' BORDER
50.5'
50.5'
24.5'-60' BORDER
30' ROADWAY
41' MEDIAN
30' ROADWAY
VARIES
5'-6'
0'-6'
FOC
LANE
LANE
LANE ULT.
SDWLK
EXIST ROW
PROP ROW
4:1 (MAX)
1.5% (USUAL)
2.0%
PGL
VARIES 2.0% USUAL

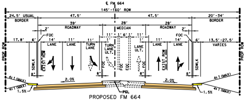
PROPOSED FM 664
TYPICAL SECTION
STA 297+50 TO 308+50
STA 309+50 TO 315+73
STA 333+73 TO 336+53
STA 346+49 TO 348+25
STA 353+08 TO 358+42


℄ FM 664
150'-500' ROW
27.5'-411.5' BORDER
47.5
47.5'
27.5'-46.5' BORDER
28' ROADWAY
39' MEDIAN
28' ROADWAY
VARIES
LANE
LANE ULT.
FOC
SDWLK
EXIST ROW
PROP ROW
4:1 (MAX)
1.5%
2.0%
PGL
VARIES

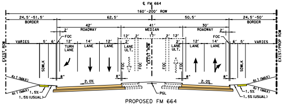
PROPOSED FM 664
TYPICAL SECTION
STA 315+73 TO 317+27
STA 322+15 TO 324+33
STA 331+60 TO 333+73
STA 358+42 TO 365+03


℄ FM 664
160'-420' ROW
35.5'-261' BORDER
50.5'
50.5'
24.5'-59.5' BORDER
30' ROADWAY
29' MEDIAN
42' ROADWAY
VARIES
LANE
TURN LANE
LANE ULT.
FOC
SDWLK
EXIST ROW
PROP ROW
4:1 (MAX)
1.5% (USUAL)
2.0%
PGL
VARIES

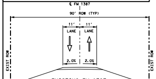
PROPOSED FM 664
TYPICAL SECTION
STA 336+53 TO 340+27
STA 348+25 TO 352+00


℄ FM 664
145'-160' ROW
24.5' USUAL BORDER
47.5'
47.5'
20'-34' BORDER
39' ROADWAY
28' MEDIAN
28' ROADWAY
17.8'
13.5'-27.5' VARIES
LANE
TURN LANE
LANE ULT.
FOC
SDWLK
EXIST ROW
PROP ROW
4:1 (MAX)
1.5%
2.0%
PGL

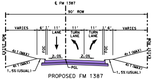
PROPOSED FM 664
TYPICAL SECTION
STA 325+39 TO 326+74
STA 327+71 TO 331+60
STA 365+99 TO 369+60
STA 374+12 TO 377+72


℄ FM 664
160'-200' ROW
24.5'-51.5' BORDER
62.5'
50.5'
24.5'-50' BORDER
42' ROADWAY
41' MEDIAN
30' ROADWAY
VARIES
TURN LANE
LANE
LANE ULT.
FOC
SDWLK
EXIST ROW
EXIST/PROP ROW
4:1 (MAX)
1.5% (USUAL)
2.0%
PGL

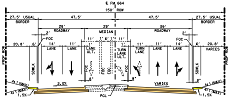
PROPOSED FM 664
TYPICAL SECTION
STA 341+13 TO 346+49


℄ FM 1387
90' ROW (TYP)
11'
11'
LANE
LANE
2.0%
2.0%
EXIST ROW
EXIST ROW

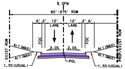
EXISTING FM 1387
TYPICAL SECTION


℄ FM 1387
90' ROW
VARIES
LANE
TURN LANE
FOC
2.0%
4:1 (MAX)
1.5% (USUAL)
PGL
EXIST ROW

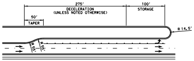
PROPOSED FM 1387
TYPICAL SECTION
STA. 11+79 TO 14+30


℄ FM 664
150' ROW
27.5' USUAL BORDER
47.5'
47.5'
27.5' USUAL BORDER
28' ROADWAY
28' MEDIAN
39' ROADWAY
20.8'
20.8' VARIES
LANE
LANE ULT.
TURN LANE
FOC
SDWLK
PROP ROW
4:1 (MAX)
1.5%
2.0%
PGL
VARIES

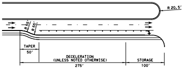
PROPOSED FM 664
TYPICAL SECTION
STA 317+25 TO 321+01
STA 369+60 TO 373+03


℄ OFM
80'-275' ROW
LANE
LANE
FOC
2.0%
2.0%
4:1 (MAX)
1.5% (USUAL)
PGL
EXIST ROW
PROP/EXIST ROW

PROPOSED OLD FM 664
TYPICAL SECTION
STA. 15+05 TO 11+46


275'
DECELERATION (UNLESS NOTED OTHERWISE)
100'
STORAGE
50'
TAPER
R 14.5'

TYPICAL LEFT-TURN BAY DETAILS
N.T.S

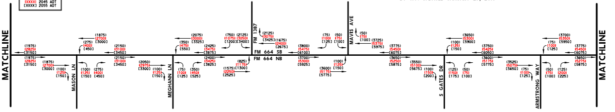

R 20.5'
TAPER
50'
DECELERATION (UNLESS NOTED OTHERWISE)
275'
STORAGE
100'

TYPICAL RIGHT-TURN BAY DETAILS
N.T.S

TRAFFIC VOLUME DIAGRAM OF FM 664

TRAFFIC PROJECTIONS BASED ON NCTCOG TDM AND CORRIDOR INFORMATION PACKET PROVIDED BY TPP. UPDATED JANUARY 29, 2019

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


MATCHLINE
MASON LN
MEGHANN LN
FM 1387
FM 664 SB
FM 664 NB
MAVIS AVE
S GATES DR
ARMSTRONG WAY
MATCHLINE

TRAFFIC DIAGRAM
N.T.S.

PRELIMINARY

NOT INTENDED FOR CONSTRUCTION
OR BIDDING PURPOSES

OWNER INFORMATION TABLE

ID	NAME	STREET ADDRESS
NB38	CHAPMAN PHILIP G	FM 664
NB39	JHDMC LLC	FM 664
NB40	ESPINOZA SILVERIO & ELSA R	710 MASON LN
NB41	THOMPSON BEVERLY J & URAL E	710 MEGHAN LN
NB42	IVES DAVID G	711 MEGHAN LN
NB43	FIRST CHRISTIAN CHURCH	FM 664
NB44	HEROD MICHAEL E	8210 ST JOHNS DR
NB45	BROWN-WARREN ALICE M L/E	1511 MC FARLAND DR
NB46	BLAKE AARON SR & MARY	1521 MC FARLAND DR
NB47	MOLLOY MARK & SUSAN	1541 MC FARLAND DR
NB48	NIETO JOE M	1551 MC FARLAND DR
NB49	JONES DARRELL K & SHANTA R	1561 MC FARLAND DR
NB50	BETHUNE JAMES L & BARBARA L	1571 MC FARLAND DR
NB51	BINA MITCHELL E & CHRISTI D	1581 MC FARLAND
NB52	POSS BRIAN R & SHAWN L	8210 ARMSTRONG WAY
NB53	FONTENOT DWIGHT P SR & FRANCES J PENTECOST-FONTENOT	8211 ARMSTRONG WAY
NB54	JNL INVESTMENTS LLC	FM 664
SB49	JHDMC LLC	8291 FAITHFUL DR
SB50	NEXXUS HOMES INC	8281 FAITHFUL DR
SB51	NEXXUS HOMES INC	8271 FAITHFUL DR
SB52	JHDMC LLC	8261 FAITHFUL DR
SB53	JHDMC LLC	8251 FAITHFUL DR
SB54	JHDMC LLC	FM 664
SB55	JHDMC LLC	8241 FAITHFUL DR
SB56	JHDMC LLC	8231 FAITHFUL DR
SB57	JHDMC LLC	8221 FAITHFUL DR
SB58	NEXXUS HOMES INC	8211 FAITHFUL DR

OWNER INFORMATION TABLE

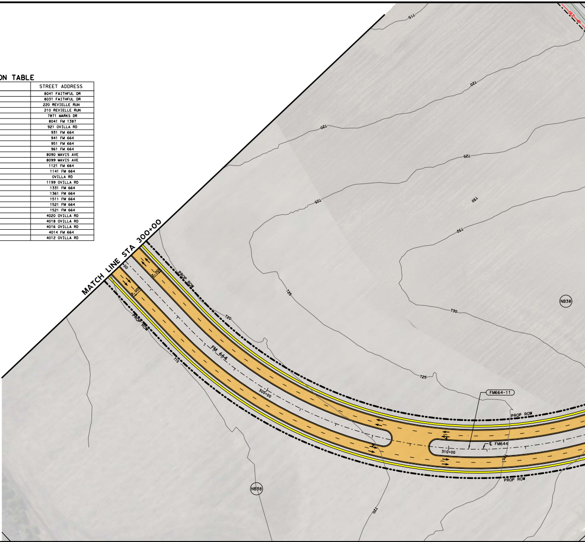
ID	NAME	STREET ADDRESS
SB59	JHDMC LLC	8041 FAITHFUL DR
SB60	JHDMC LLC	8031 FAITHFUL DR
SB61	JHH LEGACY ESTATES DEVELPOMENT LLC	220 REVIELLE RUN
SB62	JHH LEGACY ESTATES DEVELPOMENT LLC	210 REVIELLE RUN
SB63	JHH LEGACY ESTATES DEVELPOMENT LLC	7871 MARKS DR
SB64	KING SONDRA	8041 FM 1387
SB65	SHARP PAUL & TANIA	921 OVILLA RD
SB66	REED CORY	931 FM 664
SB67	RUSHING MARK	941 FM 664
SB68	KEELING WESLEY L & DANIELLE	951 FM 664
SB69	FIELDER STEPHEN G & NINFA P	961 FM 664
SB70	HICKS JOHN C & PAULA F	8090 MAVIS AVE
SB71	MACH IRENE	8099 MAVIS AVE
SB72	PIEL ANTHONY E & DENISE A	1121 FM 664
SB73	BURKS LEOLAND R & VICKIE	1141 FM 664
SB74	NELMS NANCY	OVILLA RD
SB75	SLOCUM CORTTANIE & PHILLP	1199 OVILLA RD
SB76	PIETRZAK TIMOTHY & BRANDY	1331 FM 664
SB77	CARPENTER STACEY L	1361 FM 664
SB78	RAMM 5 RANCH LLC	1511 FM 664
SB79	RAMM 5 RANCH LLC	1521 FM 664
SB80	ALMANZA CLAIRE & KENNY	1521 FM 664
SB81	BECKER BESSIE L	4020 OVILLA RD
SB82	GRIFFIN KRISTY A	4018 OVILLA RD
SB83	TAYLOR ROY WJR & PAMELA P	4016 OVILLA RD
SB84	GREENINGER TODD B	4014 FM 664
SB85	GILBERT SHELDON & TRACEE	4012 OVILLA RD

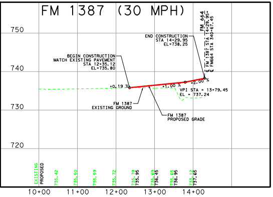
CURVE DATA TABLE

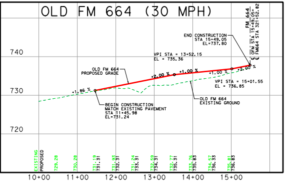
CURVE NO.	DELTA	DEGREE	TANGENT	LENGTH	RADUIS	PI STA	PC STA	PT STA
FM664-11	85° 48′ 32.76" (LT)	5° 27′ 24.27"	975.88	1,572.53′	1,050.00′	311+98.42	302+22.55	317+95.08
FM664-12	3° 44′ 26.96" (LT)	3° 03′ 20.79"	61.23′	122.42′	1,875.00′	326+23.07	325+61.84	326+84.26
FM664-13	89° 43′ 02.77" (RT)	6° 11′ 38.90"	920.45	1,448.42′	925.00′	338+13.87	328+93.42	343+41.84
FM664-14	5° 39′ 02.62" (LT)	3° 49′ 10.99"	74.03′	147.94′	1,500.00′	353+03.36	352+29.33	353+77.26
FM664-15	6° 20′ 49.94" (RT)	3° 16′ 26.56"	97.03′	193.86′	1750.00′	359+39.10	358+42.07	360+35.94
ML-1	40° 27′ 43.26" (RT)	19° 05′ 54.94"	110.56′	211.86′	300.00′	11+42.11	10+31.55	12+43.41
FM 1387-1	17° 09′ 47.79" (LT)	16° 22′ 12.80"	52.82′	104.84′	350.00′	12+88.06	12+35.24	13+40.08

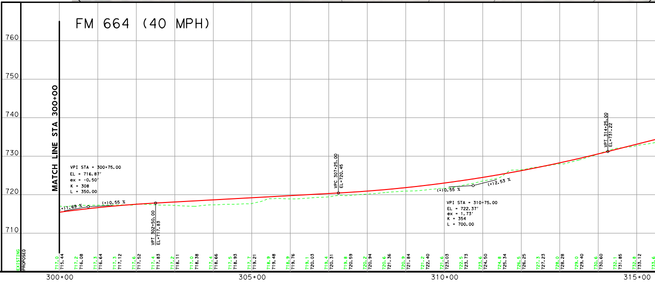
HORIZONTAL ALIGNMENT DATA

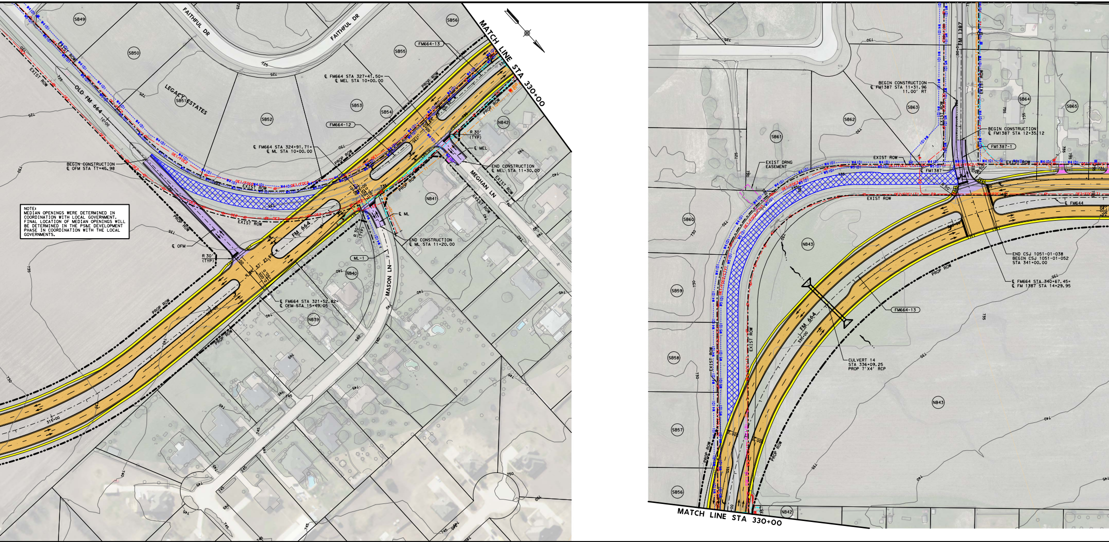
CHAIN NO.	POT STA	POT-NORTHING	POT-EASTING	BEARING	POT STA	POT-NORTHING	POT-EASTING
OFM	10+00.00	6,864,333.69	2,466,530.67	N 1° 56′ 10.79" W	15+49.05	6,864,882.43	2,466,512.11
ML	10+00.00	6,864,900.41	2,466,173.71	N 3° 02′ 32.37" E	———	———	———
MEL	10+00.00	6,864,905.94	2,465,924.07	N 0° 46′ 06.48" W	11+37.73	6,865,043.66	2,465,922.22
FM 1387	10+00.00	6,865,495.39	2,464,457.30	N 89° 11′ 08.13" E	12+35.24	6,865,498.73	2,464,692.51
	13+40.08	6,865,515.79	2,464,795.56	N 72° 01′ 20.34" E	14+29.95	6,865,543.52	2,464,881.04
MAS	10+00.00	6,866,715.50	2,464,629.33	N 88° 47′ 20.72" E	12+05.93	6,866,719.53	2,464,820.38
SGD	10+00.00	6,868,018.92	2,464,743.07	N 89° 52′ 01.93" E	12+10.93	6,868,019.41	2,464,954.01
AW	10+00.00	6,868,836.64	2,464,739.01	N 88° 55′ 31.87" E	12+09.12	6,868,840.56	2,464,948.10


MATCH LINE STA 300+00
PROP ROW
FM 664
305+00
FM664-11
310+00
℄ FM644
PROP ROW
NB38
715
720
725
730

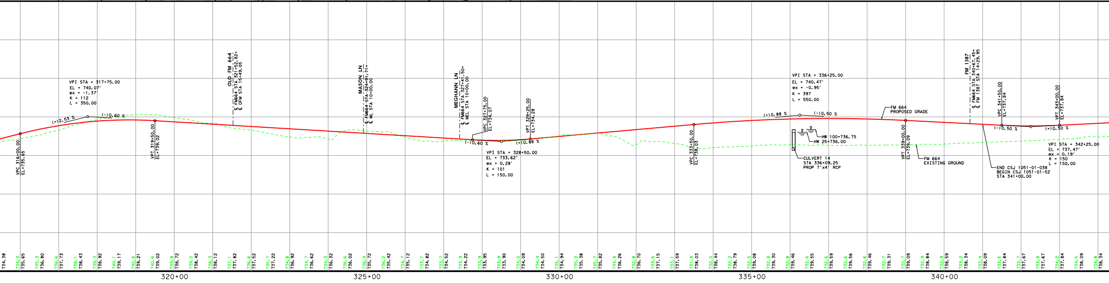


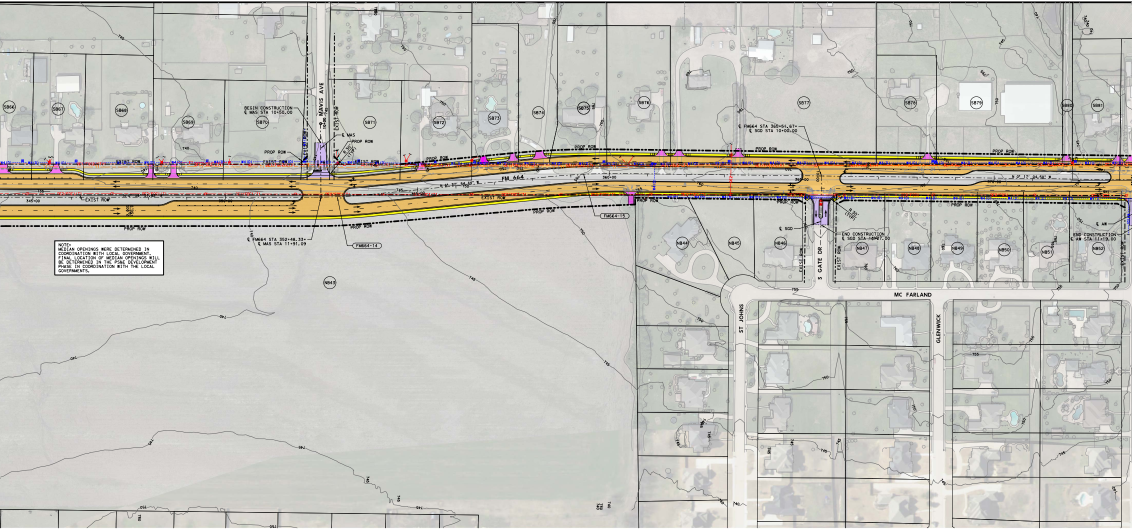




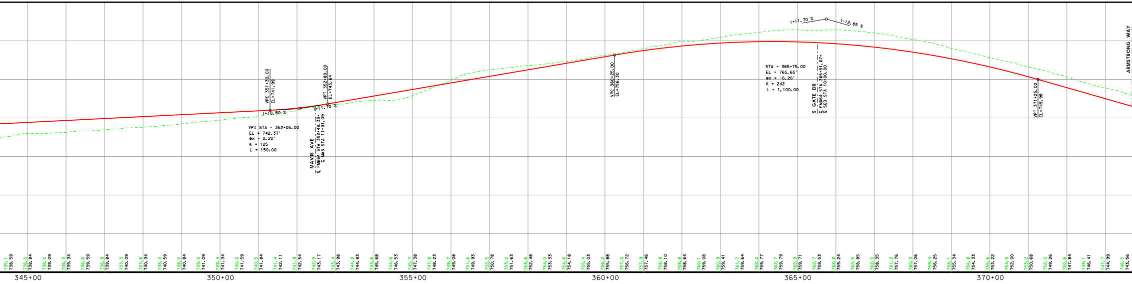

MATCH LINE STA 330+00
FAITHFUL DR
OLD FM 664
LEGACY ESTATES
FM 664
MASON LN
MEGHAN LN
FM 1387
SB49
SB50
SB51
SB52
SB53
SB54
SB55
SB56
SB57
SB58
SB59
SB60
SB61
SB62
SB63
SB64
SB65
NB39
NB40
NB41
NB42
NB43
FM664-12
FM664-13
FM1387-1
ML-1
EXIST ROW
PROP ROW
EXIST DRNG EASEMENT
R 30' (TYP)
R 50'
℄ OFM
℄ ML
℄ MEL
℄ FM1387
℄ FM644
BEGIN CONSTRUCTION ℄ OFM STA 11+45.98
℄ FM664 STA 324+91.71= ℄ ML STA 10+00.00
℄ FM664 STA 327+41.50= ℄ MEL STA 10+00.00
END CONSTRUCTION ℄ MEL STA 11+30.00
END CONSTRUCTION ℄ ML STA 11+20.00
℄ FM664 STA 321+52.82= ℄ OFM STA 15+49.05
BEGIN CONSTRUCTION ℄ FM1387 STA 11+31.96 11.00' RT
BEGIN CONSTRUCTION ℄ FM1387 STA 12+35.12
END CSJ 1051-01-038 BEGIN CSJ 1051-01-052 STA 341+00.00
℄ FM664 STA 340+67.45= ℄ FM 1387 STA 14+29.95
CULVERT 14 STA 336+09.25 PROP 7'X4' RCP
315+00
335+00
725
730
735
740
745
750

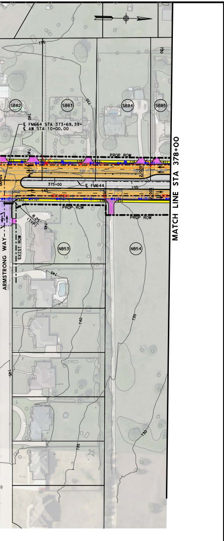
NOTE:
MEDIAN OPENINGS WERE DETERMINED IN COORDINATION WITH LOCAL GOVERNMENT. FINAL LOCATION OF MEDIAN OPENINGS WILL BE DETERMINED IN THE PS&E DEVELOPMENT PHASE IN COORDINATION WITH THE LOCAL GOVERNMENTS.



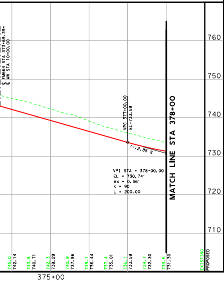

SB66
SB67
SB68
SB69
SB70
SB71
SB72
SB73
SB74
SB75
SB76
SB77
SB78
SB79
SB80
SB81
MAVIS AVE
BEGIN CONSTRUCTION
℄ MAS STA 10+50.00
10+00
EXIST ROW
℄ MAS
PROP ROW
R 30' (TYP)
EXIST ROW
PROP ROW
EXIST ROW (D)
W4(D)
OE1/FOC2/CTV1
OE2/FOC1/T1
FM 664
N 6° 37' 54.44" W
N 0° 37' 58.32" W
345+00
350+00
355+00
360+00
365+00
370+00
℄ FM664 STA 352+48.33=
℄ MAS STA 11+91.09
FM664-14
FM664-15
℄ FM664 STA 365+51.67=
℄ SGD STA 10+00.00
N 0° 17' 04.50" W
℄ SGD
END CONSTRUCTION
℄ SGD STA 10+27.00
℄ AW
END CONSTRUCTION
℄ AW STA 11+19.00
S GATE DR
NB43
NB44
NB45
NB46
NB47
NB48
NB49
NB50
NB51
NB52
ST JOHNS
MC FARLAND
GLENWICK
735
740
745
750
755
760

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.


VPC 351+30.00
EL=741.99
(+)0.50 %
VPT 352+80.00
EL=743.64
(+)1.70 %
VPI STA = 352+05.00
EL = 742.37'
ex = 0.22'
K = 125
L = 150.00
MAVIS AVE
℄ FM664 STA 352+48.33=
℄ MAS STA 11+91.09
VPC 360+25.00
EL=756.30
(+)1.70 %
(-)2.85 %
STA = 365+75.00
EL = 765.65'
ex = -6.26'
K = 242
L = 1,100.00
S GATE DR
℄ FM664 STA 365+51.67=
℄ SGD STA 10+00.00
VPT 371+25.00
EL=749.98
ARMSTRONG WAY
735.1 738.59
736.0 738.84
736.0 739.09
736.3 739.34
736.6 739.59
736.9 739.84
737.3 740.09
737.6 740.34
738.0 740.59
738.5 740.84
739.0 741.09
739.4 741.34
740.0 741.59
740.5 741.84
741.4 742.11
741.9 742.54
742.9 743.17
743.4 743.98
744.2 744.83
744.6 745.68
744.6 746.53
745.7 747.38
747.8 748.23
749.7 749.08
751.6 749.93
752.5 750.78
753.0 751.63
753.6 752.48
754.0 753.33
754.6 754.18
755.4 755.03
756.2 755.88
757.0 756.72
757.9 757.46
758.8 758.10
759.8 758.64
760.1 759.08
760.9 759.41
761.7 759.64
762.2 759.77
762.7 759.79
762.9 759.71
762.7 759.53
762.8 759.24
762.5 758.85
762.0 758.35
761.2 757.76
760.3 757.06
759.4 756.25
758.1 755.34
756.8 754.33
755.6 753.22
754.5 752.00
753.2 750.68
752.0 749.26
750.6 747.84
749.1 746.41
747.7 744.99
746.5 743.56
345+00
350+00
355+00
360+00
365+00
370+00



SB82
SB83
SB84
SB85
℄ FM664 STA 373+69.39=
℄ AW STA 10+00.00
PROP ROW
375+00
℄ FM644
PROP ROW
PROP ROW
R.25'
(TYP)
EXIST ROW
NB53
NB54
ARMSTRONG WAY
740
735
730
745
MATCH LINE STA 378+00



Texas Department of Transportation®

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

FARM TO MARKET ROAD 664 (OVILLA RD)

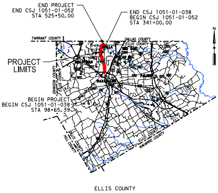
PROJECT LIMIT:
FROM US 287 TO WESTMORELAND RD

CSJ: 1051-01-038
1051-01-052

FUNCTIONAL CLASS: MINOR URBAN ARTERIAL

DESIGN SPEED: 40 mph FM 664
30 mph CROSS-ST
25 mph MAIN ST

PROJECT LENGTH: 8.084 MILES



END PROJECT
END CSJ 1051-01-052
STA 525+50.00
END CSJ 1051-01-038
BEGIN CSJ 1051-01-052
STA 341+00.00
TARRANT COUNTY
DALLAS COUNTY
ELLIS COUNTY
PROJECT LIMITS
JOHNSON COUNTY
ELLIS COUNTY
BEGIN PROJECT
BEGIN CSJ 1051-01-038
STA 98+65.39
HILL COUNTY
ELLIS COUNTY
NAVARRO COUNTY
WAXAHACHIE
N
ELLIS COUNTY

LOCATION MAP
N.T.S.

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

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

OCTOBER 2019

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

DATE SUBMITTED
10/11/2019

DATE APPROVED

DATE REVISED

ROLL 4 OF 6

PRELIMINARY
FOR INTERIM REVIEW ONLY. NOT FOR PERMITTING, BIDDING, OR CONSTRUCTION.
Prepared by or under the Direct Supervision of
HOWARD C. GIBBS III, P.E. 100239
10/11/2019

NOT INTENDED FOR CONSTRUCTION, BIDDING, OR PERMIT PURPOSES

100% SUBMITTAL

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

Texas Department of Transportation®

DALLAS DISTRICT
DESIGN SCHEMATIC

MOHAMED K. BUR, P.E., DISTRICT ENGINEER
ELLIS COUNTY

FARM TO MARKET ROAD 664 (OVILLA RD)

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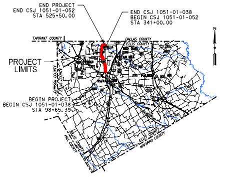
END PROJECT
END CSJ 1051-01-052
STA 525+50.00
END CSJ 1051-01-038
BEGIN CSJ 1051-01-052
STA 341+00.00
TARRANT COUNTY
DALLAS COUNTY
ELLIS COUNTY
PROJECT LIMITS
JOHNSON COUNTY
BEGIN PROJECT
BEGIN CSJ 1051-01-038
STA 98+65.39
HILL COUNTY
NAVARRO COUNTY
N

ELLIS COUNTY

LOCATION MAP
N.T.S.

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

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

OCTOBER 2019

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

DATE SUBMITTED
10/11/2019

DATE APPROVED

DATE REVISED

ROLL 5 OF 6

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

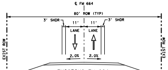
FILE NAME: M:\PROJECTS\TxDOT\FM 664\DGN\ULTIMATE SCHEMATICS\FM664_ROLL 5.dgn

LEGEND:

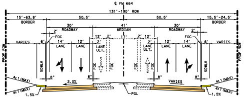
🟧	PROPOSED MAINLANES
▨	PAVEMENT TO BE REMOVED
🟪	PROPOSED DRIVEWAYS
🟪	PROPOSED CROSS STREETS
🟫	TEMPORARY PAVEMENT
🟧	PROPOSED BRIDGE STRUCTURES
🟨	PROPOSED SIDEWALKS
▨	PROPOSED DISPLACEMENTS
🟥	PROPOSED DRAINAGE EASEMENT
═	PROPOSED DRAINAGE STRUCTURE
🟦	100 YR FLOODPLAIN
- - -	EXISTING ROW
━ ━ ━	PROPOSED ROW
— · —	PROPOSED CENTERLINE/BASELINE
⌒	PROPOSED RETAINING WALL
(XXXXX)	CURVE NUMBER
→	DIRECTION OF TRAVEL
↝	DIRECTION OF FLOW
(XXXX)	PARCEL ID NUMBER
⚑	SCHOOL
◆	HAZARDOUS MATERIALS SITE
●	THC HISTORICAL MARKER
✝	CHURCH
◆	THC NEIGHBORHOOD SURVEY STRUCTURE

NOTES:

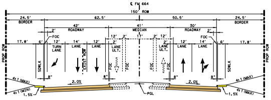
1. EXISTING FEATURES WERE NOT FIELD SURVEYED. SCHEMATICS ARE BASED ON AERIAL SURVEYS DATED OCTOBER 2017 AND RECORD PLANS.
2. ADA RAMPS ARE NOT DEPICTED ON THE PLAN. THE EXACT LOCATIONS OF ADA RAMPS AND SIDEWALKS WILL BE DETERMINED DURING THE FINAL DESIGN THROUGH COORDINATION BETWEEN TxDOT AND LOCAL GOVERNMENTS.
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 FINAL DESIGN.
5. BUILDINGS ARE SHOWN AS POTENTIAL DISPLACEMENTS IF THE PROPOSED ROW PHYSICALLY INTERSECTS THE EXISTING BUILDING STRUCTURE OR ACCESS IS ELIMINATED BY WALL.
6. UNLESS OTHERWISE NOTED, EXISTING PAVEMENT AND BRIDGES LOCATED WITHIN LIMITS OF PROPOSED RECONSTRUCTION WILL BE REMOVED.
7. DIMENSIONS ARE TO FACE OF CURB OR TO THE EDGE OF UNCURBED PAVEMENT UNLESS NOTED OTHERWISE.
8. SUPERELEVATION AXIS OF ROTATION IS ABOUT THE PGL.
9. DIMENSIONS ARE TO THE EDGE OF PAVEMENT OR NOMINAL FACE OF CURB, RAIL, BARRIER OR WALL (UNLESS NOTED OTHERWISE).
10. APPROXIMATE 100 YEAR FLOODPLAIN LIMITS ARE BASED UPON FEMA FLOOD INSURANCE RATE MAP 48139C0050F.
11. OWNERSHIP INFORMATION SHOWN ON SCHEMATIC OBTAINED FROM ELLIS COUNTY APPRAISAL DISTRICT (JUNE 2018).
12. ALL CURBS ARE TYPE II UNLESS NOTED OTHERWISE.


℄ FM 664
80' ROW (TYP)
3' SHDR
11'
11'
3' SHDR
LANE
LANE
2.0%
2.0%
EXIST ROW
EXIST ROW

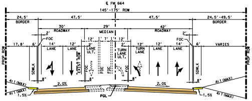
EXISTING FM 664
TYPICAL SECTION


℄ FM 664
131'-190' ROW
15.5'-63.8' BORDER
50.5'
41' MEDIAN
50.5'
15.5'-24.5' BORDER
30' ROADWAY
30' ROADWAY
VARIES
PROP ROW
SDWLK
FOC
PGL
4:1 (MAX)
1.5%
2.0%

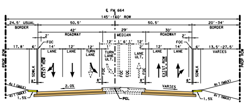
PROPOSED FM 664
TYPICAL SECTION
STA 400+09 TO 401+98
STA 413+12 TO 415+83
STA 420+51 TO 422+40
STA 431+50 TO 436+24
STA 447+64 TO 450+73


℄ FM 664
150' ROW
24.5' BORDER
62.5'
41' MEDIAN
50.5'
24.5' BORDER
42' ROADWAY
30' ROADWAY
17.8'
TURN LANE
EXIST ROW
PROP ROW
SDWLK
FOC
PGL
4:1 (MAX)
4:1 (MIN)
1.5%
2.0%

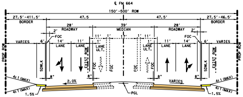
PROPOSED FM 664
TYPICAL SECTION
STA 387+64 TO 391+04
STA 440+93 TO 444+54


℄ FM 664
145'-175' ROW
24.5' BORDER
47.5'
29' MEDIAN
47.5'
24.5'-49.5' BORDER
30' ROADWAY
42' ROADWAY
TURN LANE
VARIES
PROP ROW
SDWLK
FOC
PGL
4:1 (MAX)
1.5%
2.0%

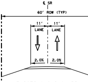
PROPOSED FM 664
TYPICAL SECTION
STA 453+26 TO 457+02


℄ FM 664
145'-160' ROW
24.5' USUAL BORDER
50.5'
29' MEDIAN
50.5'
20'-34' BORDER
42' ROADWAY
30' ROADWAY
17.8'
13.5'-27.5' VARIES
TURN LANE
EXIST ROW
PROP ROW
SDWLK
FOC
PGL
4:1 (MAX)
1.5%
2.0%

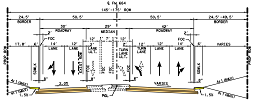
PROPOSED FM 664
TYPICAL SECTION
STA 391+04 TO 393+02
STA 396+36 TO 400+09
STA 402+89 TO 406+77
STA 409+34 TO 413+12
STA 416+78 TO 420+51
STA 427+75 TO 431+50
STA 444+54 TO 447+64


℄ FM 664
150'-500' ROW
27.5'-411.5' BORDER
47.5
39' MEDIAN
47.5'
27.5'-46.5' BORDER
28' ROADWAY
28' ROADWAY
VARIES
PROP ROW
EXIST ROW
SDWLK
FOC
PGL
4:1 (MAX)
1.5%
2.0%

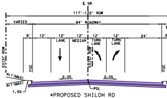
PROPOSED FM 664
TYPICAL SECTION
STA 377+72 TO 383+16
STA 451+73 TO 453+26


℄ SR
60' ROW (TYP)
11'
11'
LANE
LANE
2.0%
2.0%
EXIST ROW

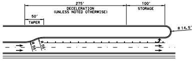
EXISTING SHILOH RD
TYPICAL SECTION


℄ FM 664
145'-175' ROW
24.5' BORDER
50.5'
29' MEDIAN
50.5'
24.5'-49.5' BORDER
30' ROADWAY
42' ROADWAY
17.8'
TURN LANE
VARIES
PROP ROW
EXIST ROW
SDWLK
FOC
PGL
4:1 (MAX)
1.5%
2.0%

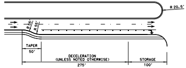
PROPOSED FM 664
TYPICAL SECTION
STA 383+16 TO 386+89
STA 393+02 TO 395+22
STA 406+77 TO 408+37
STA 422+40 TO 426+15
STA 436+24 TO 439+98


℄ SR
117'-122' ROW
VARIES
84' ROADWAY
LANE
MEDIAN
TURN LANE
LANE
EXIST ROW
FOC
PGL
4:1 (MAX)
1.5%
2.0%

*PROPOSED SHILOH RD
TYPICAL SECTION
STA. 14+09 TO 15+20
*TRANSITION FROM 11+26 TO 14+09


275'
DECELERATION
(UNLESS NOTED OTHERWISE)
100'
STORAGE
50'
TAPER
R 14.5'

TYPICAL LEFT-TURN BAY DETAILS
N.T.S

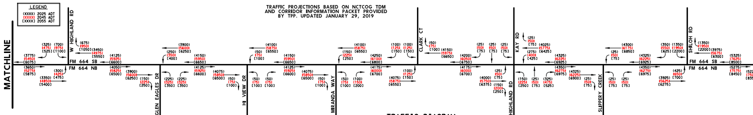

R 20.5'
TAPER
50'
DECELERATION
(UNLESS NOTED OTHERWISE)
275'
STORAGE
100'

TYPICAL RIGHT-TURN BAY DETAILS
N.T.S

CURVE DATA TABLE

CURVE NO.	DELTA	DEGREE	TANGENT	LENGTH	RADUIS	PI STA	PC STA	PT STA
FM664-16	3° 00' 24.98" (LT)	1° 08' 45.30"	131.23'	262.40'	5,000.00'	381+57.45	381+57.45	384+19.85
FM664-17	1° 47' 03.17" (RT)	0° 34' 22.65"	155.71'	311.40'	10,000.00'	388+21.49	386+65.77	389+77.18
FM664-18	8° 57' 36.30" (RT)	5° 27' 24.27"	82.27'	164.20'	1,050.00'	404+59.92	403+77.65	405+41.85
FM664-19	8° 26' 34.40" (LT)	5° 43' 46.48"	73.81'	147.36'	1,000.00'	408+28.63	407+54.82	409+02.18
FM664-20	28° 23' 00.83" (RT)	4° 35' 01.18"	316.11'	619.23'	1,250.00'	434+30.73	431+14.62	437+33.86
FM664-21	5° 30' 49.96" (LT)	5° 43' 46.48"	48.15'	96.24'	1,000.00'	439+79.47	439+31.32	440+27.55
FM664-22	6° 17' 44.10" (RT)	3° 49' 10.99"	82.49'	164.82'	1,500.00'	445+30.67	444+48.17	446+12.99
FM664-23	10° 12' 47.78" (LT)	5° 43' 46.48"	89.36'	178.26'	1,000.00'	448+73.96	447+84.60	449+62.85
FM664-24	4° 16' 08.02" (RT)	1° 54' 35.49"	111.81'	223.52'	3,000.00'	453+46.21	452+34.40	454+57.92
SR-1	6° 32' 58.51" (RT)	16° 22' 12.80"	20.03'	40.01'	350.00'	11+46.63	11+26.60	11+66.61
SR-2	6° 32' 58.51" (LT)	16° 22' 12.80"	20.03'	40.01'	350.00'	13+39.46	13+19.43	13+59.44
SR-3	16° 56' 33.79" (RT)	16° 22' 12.80"	52.13'	103.50'	350.00'	14+61.18	14+09.05	15+12.55

CHAIN NO.	POT STA	POT-NORTHING
MHR	10+00.00	6,870,180.28
GED	10+00.00	6,870,360.68
HVD	10+00.00	6,871,049.82
MW	10+00.00	6,871,716.50
CC	10+00.00	6,871,840.39
KR	10+00.00	6,872,341.27
EHR	10+00.00	6,872,355.09
SCS	10+00.00	6,873,094.62
SR	10+00.00	6,875,559.12
	11+66.61	6,875,542.51
	13+59.44	6,875,506.37
	15+12.55	6,875,478.19
HVC	10+00.00	6,876,442.62
CD	10+00.00	6,875,750.12


LEGEND
(XXXX) 2025 ADT
(XXXX) 2045 ADT
[XXXX] 2055 ADT
TRAFFIC PROJECTIONS BASED ON NCTCOG TDM AND CORRIDOR INFORMATION PACKET PROVIDED BY TPP. UPDATED JANUARY 29, 2019
MATCHLINE
W HIGHLAND RD
FM 664 SB
FM 664 NB
GLEN EAGLES DR
HI VIEW DR
MIRANDA WAY
CLARK CT
E HIGHLAND RD
KAY RD
SLIPPERY CREEK
SHILOH RD

TRAFFIC DIAGRAM
N.T.S.

PRELIMINARY

NOT INTENDED FOR CONSTRUCTION
OR BIDDING PURPOSES

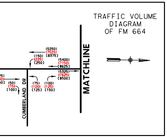
OWNER INFORMATION TABLE

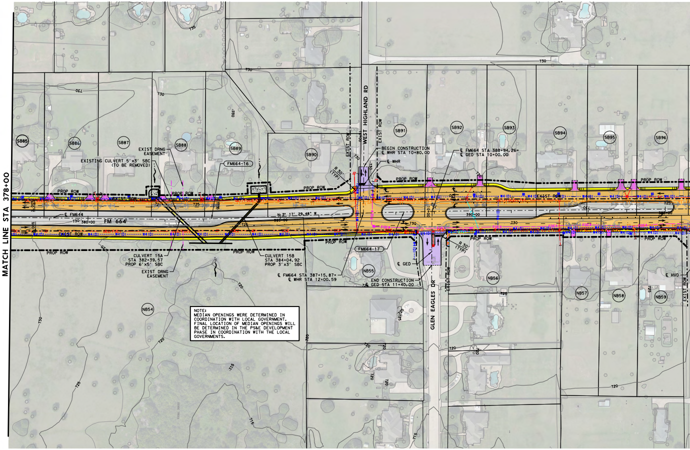
ID	NAME	STREET ADDRESS
NB54	JNL INVESTMENTS LLC	FM 664
NB55	LOZORIA JUAN H	8210 GLEN EAGLES DR
NB56	JONES M J JR & BARBARA	8211 GLEN EAGLES DR
NB57	KOPLEN LEONARD GEORGE	3905 OVILLA RD
NB58	PROPERTY OWENER INFO NOT FOUND	3903 OVILLA RD
NB59	SELLERS PAUL E	3901 OVILLA RD
NB60	MC KINNEY CLYDE & CHRISTIE	3819 OVILLA RD
NB61	LYCKA GREGORY L & YVONNE E	3817 OVILLA RD
NB62	DAWSON JUDY G	3815 OVILLA RD
NB63	VOSSLER JOSEPH E & KARRY	602 CHRISTA ST
NB64	LAVALLEE JANE	600 CHRISTA ST
NB65	HPA TEXAS SUB 2016-2-LLC	601 CHRISTA ST
NB66	GRIFFIN SEAN P ETAL	603 CHRISTA ST
NB67	JONES LOUELLA	604 E HIGHLAND RD
NB68	RUYLE PATRICIA ETAL	HIGHLAND RD
NB69	RUYLE PATRICIA ETAL	HIGHLAND RD
NB70	HARP JANICE S	OVILLA RD
NB71	JANSONIUS KIMBERLY & JASON	3711 OVILLA RD
NB72	ACE SECURITY SYSTEMS	3733 OVILLA RD
NB73	JOHNSON RONALD O & RENAE	3709 OVILLA RD
NB74	RAMIREZ JOSE E & BLANCA	3707 OVILLA RD
NB75	WILLIAMS MARY R & MICHAEL R WILLIAMS	3619 OVILLA RD
NB76	EXOTIC COLLISION REPAIR CENTER INC	3601 OVILLA RD
NB77	EXOTIC COLLISION REPAIR CENTER INC	3601 OVILLA RD
NB78	BATCHELOR RICK & JOY C/D	3611 OVILLA RD
NB79	GRIDLEY JOH M & JMG PROPERTIES LTD	3617 OVILLA RD
NB80	GRIDLEY JOH M & JMG PROPERTIES LTD	3617 OVILLA RD
NB81	EDWARDS MATTHEW & SUNNI O	100 CUMBERLAND RD
NB82	ELSTON STACY & DEMETRA	101 CUMBERLAND RD
NB83	SELF JESSE H & RUTHIE L LIVING TRUST	103 CUMBERLAND CT
NB84	AVINGER PATRICK S & DENISE T	104 CUMBERLAND CT
NB85	DORAN LARRY	100 HIGH VIEW CT
NB86	COGHLAN MICHAEL K & GINGER L	101 HIGH VIEW CT
NB87	WROBEL LEO A JR & SHARON M	100 OVILLA OAKS DR
SB85	GILBERT SHELDON & TRACEE	4012 OVILLA RD
SB86	PARKER JOHN & KIMBERLEY & PATRICIA PARKER	4010 OVILLA RD
SB87	PARDUE RICHARD H	4008 FM 664
SB88	REYNOLDS DAVID & KATHERINE	4006 FM 664
SB89	KETTREY KEITH A	4004 OVILLA RD
SB90	OHR CHARLES M & GWENDOLYN J SHAW	4002 OVILLA RD
SB91	RAMIREZ IGNACIO & GRACIELA	3912 OVILLA RD
SB92	DICKERSON ARCHIE L	3910 OVILLA RD
SB93	ANTHONY EARL R JR & JO ANN	3908 OVILLA RD
SB94	EPPERSON SUSAN C	3906 OVILLA RD
SB95	BARTON CARL S & TERRIE ANN	3904 OVILLA RD
SB96	GRIFFIN MICHAEL D ETAL	3902 FM 664
SB97	LACY MAGGIE P	3900 OVILLA RD
SB98	KELLEY JOHN B & JAMIE D	3816 OVILLA RD
SB99	HORNUNG MELODY	3814 W OVILLA RD
SB100	PERRY WILLIAM R & JOCELYN C	8050 CLARK CT
SB101	BROWN TERRI L & MICHAEL D	8051 CLARK CT
SB102	BELL HANK	3800 OVILLA RD
SB103	LILES CHARLES E	3760 OVILLA RD
SB104	LILES CHARLES E	3758 OVILLA RD
SB105	LANSDELL MARY L	3754 OVILLA RD
SB106	LOTT DALTON L	SHILOH RD
SB107	GRAVELY WILLIAM	3720 OVILL RD
SB108	EDWARDS HERMAN C & KAY E TR	3718 OVILLA RD
SB109	DEZIK RAYMOND J & CATHIE J	2716 OVILLA RD
SB110	ARCHER SAMUEL C ETAL	3714 OVILLA RD
SB111	WAGNER GEORGE W & MARGARET F	3708 OVILLA RD
SB112	WAGNER GEORGE W & MARGARET F	3708 OVILLA RD
SB113	GIRON DAVID & MARIA O	3706 OVILLA RD
SB114	KOOL PAUL G & BEENE DARRELL R	FM 664
SB115	MONTOYA JOSE A	3618 OVILLA RD
SB116	MONTOYA JOSE A	3616 OVILLA RD
SB117	CRUZ SANTIAGO	3614 OVILLA RD
SB118	LOGAN SAMUEL RAY & SHERRY LYNN	3612 OVILLA
SB119	LOTT DALTON L	3610 OVILLA RD
SB120	LOTT DALTON L	SHILOH RD
SB121	CHOVANETZ RAYMOND E	3602 OVILLA RD
SB122	CANADA JAMES R & MINNETTE V	102 WOODLANDS CT
SB123	SMITH RODGERS B & KATHRYN R	104 WOODLANDS CT
SB124	GAUSE SHARON	106 WOODLANDS CT
SB125	MITCHELL MARY D & ROY D	108 WOODLANDS CT
SB126	TURTURRO CHRISTOPHER & CATHERINE	109 WOODLANDS CT
SB127	HALLAK RACHID	3506 OVILLA RD

HORIZONTAL ALIGNMENT DATA

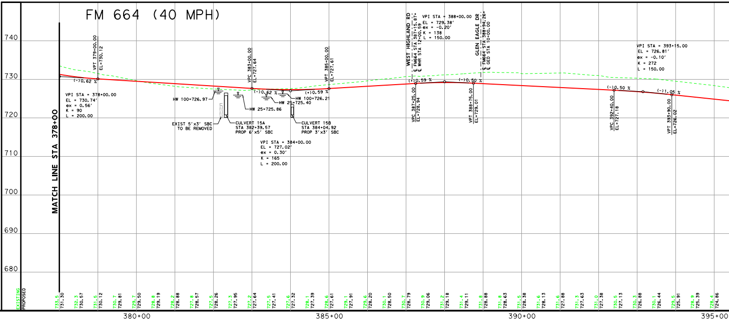
POT-EASTING	BEARING	POT STA	POT-NORTHING	POT-EASTING
2,464,509.72	N 89° 22′ 22.08" E	12+00.59	6,870,182.47	2,464,710.29
2,464,702.28	N 89° 22′ 22.08" E	11+78.48	6,870,362.64	2,464,880.75
2,464,683.80	N 88° 57′ 01.13" E	12+12.69	6,871,053.71	2,464,896.46
2,464,666.26	N 88° 58′ 22.62" E	12+01.98	6,871,720.13	2,464,868.21
2,464,515.48	N 88° 58′ 22.62" E	11+47.47	6,871,843.03	2,464,662.92
2,464,529.61	N 89° 02′ 14.26" E	11+77.90	6,872,344.25	2,464,707.49
2,464,707.47	N 89° 23′ 48.87" E	12+03.47	6,872,357.23	2,464,910.93
2,464,694.75	N 88° 58′ 22.62" E	11+59.91	6,873,097.49	2,464,854.63
2,464,374.47	S 85° 03′ 47.34" E	11+26.60	6,875,548.23	2,464,500.60
2,464,540.18	S 78° 30′ 48.83" E	13+19.43	6,875,512.08	2,464,689.94
2,464,729.52	S 85° 03′ 47.34" E	14+09.05	6,875,502.10	2,464,778.94
2,464,879.25	S 68° 07′ 13.55" E	15+84.26	6,875,451.46	2,464,945.80
2,465,366.17	S 73° 07′ 36.33" E	11+35.77	6,876,403.21	2,465,496.10
2,465,065.74	S 62° 14′ 03.62" E	11+57.88	6,875,676.57	2,465,205.44

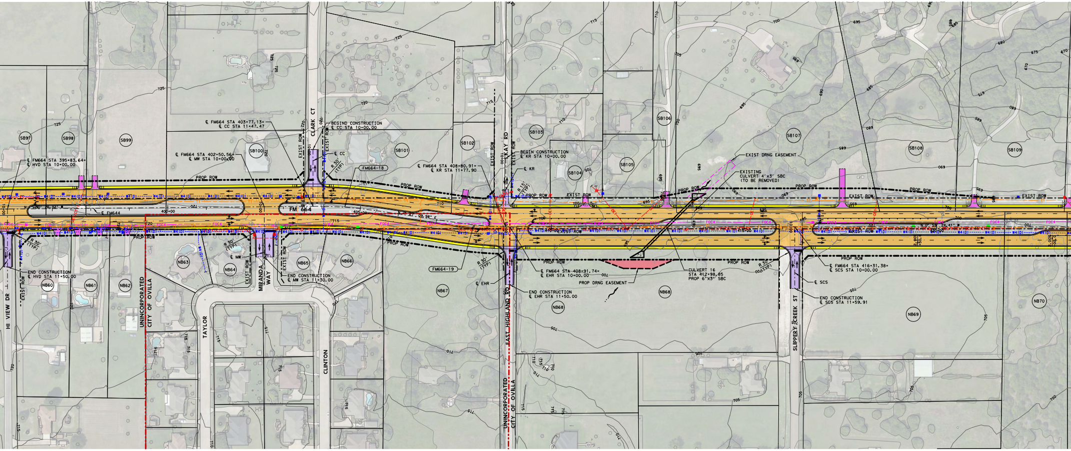
EXIST ROW
15'
BORDER
PROP ROW
4:1 (MAX)
4:1 (MAX)
1.5%


TRAFFIC VOLUME DIAGRAM OF FM 664
(5250)
[7525]
[8375]
(150)
[225]
[250]
(5400)
[7750]
[8625]
(5325)
[7625]
[8500]
(50)
[75]
[100]
(75)
[100]
[125]
(100)
[125]
[150]
CUMBERLAND DR
MATCHLINE

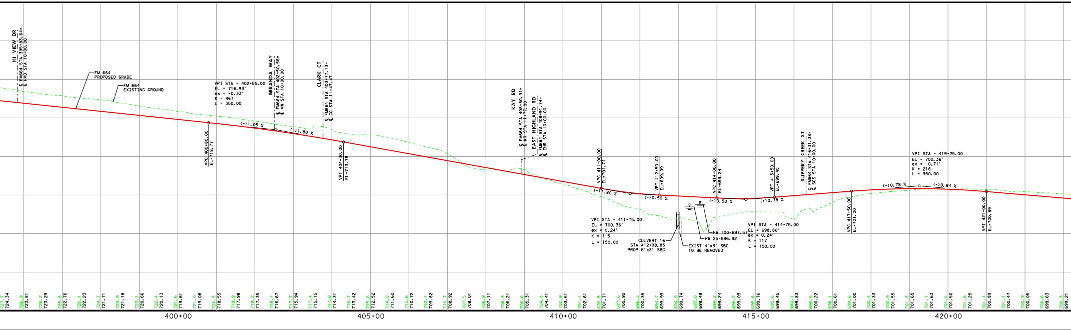

MATCH LINE STA 378+00
SB85
SB86
SB87
SB88
SB89
SB90
SB91
SB92
SB93
SB94
SB95
SB96
NB54
NB55
NB56
NB57
NB58
NB59
EXIST DRNG EASEMENT
EXISTING CULVERT 5′x3′ SBC (TO BE REMOVED)
FM664-16
FM664-17
PROP ROW
EXIST ROW
℄ FM644
FM 664
380+00
385+00
390+00
N 3° 17′ 29.48" W
W4(D)
FOC4
CULVERT 15A STA 382+39.57 PROP 6′x5′ SBC
CULVERT 15B STA 384+04.92 PROP 3′x3′ SBC
EXIST DRNG EASEMENT
℄ FM664 STA 387+15.87= ℄ WHR STA 12+00.59
WEST HIGHLAND RD
BEGIN CONSTRUCTION ℄ WHR STA 10+80.00
℄ WHR
R 30′ (TYP)
℄ FM664 STA 388+94.26= ℄ GED STA 10+00.00
℄ GED
END CONSTRUCTION ℄ GED STA 11+40.00
GLEN EAGLES DR
℄ HVD
730
725
720
715

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.

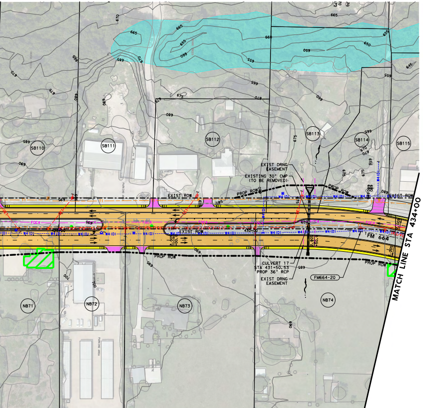




FM 664
FM664-18
FM664-19
CLARK CT
KAY RD
HI VIEW DR
MIRANDA WAY
TAYLOR
CLINTON
EAST HIGHLAND RD
SLIPPERY CREEK ST
UNINCORPORATED
CITY OF OVILLA
℄ FM664 STA 395+83.64= ℄ HVD STA 10+00.00
℄ FM664 STA 402+50.56= ℄ MW STA 10+00.00
℄ FM664 STA 403+77.13= ℄ CC STA 11+47.47
BEGIN CONSTRUCTION ℄ CC STA 10+00.00
℄ FM664 STA 408+80.91= ℄ KR STA 11+77.90
BEGIN CONSTRUCTION ℄ KR STA 10+00.00
℄ FM664 STA 408+91.74= ℄ EHR STA 10+00.00
END CONSTRUCTION ℄ EHR STA 11+50.00
END CONSTRUCTION ℄ HVD STA 11+50.00
END CONSTRUCTION ℄ MW STA 11+30.00
℄ FM664 STA 416+31.38= ℄ SCS STA 10+00.00
END CONSTRUCTION ℄ SCS STA 11+59.91
EXIST DRNG EASEMENT
EXISTING CULVERT 4'x3' SBC (TO BE REMOVED)
CULVERT 16 STA 412+98.85 PROP 6'x3' SBC
PROP DRNG EASEMENT
PROP ROW
EXIST ROW
R 30' (TYP)
SB97
SB98
SB99
SB100
SB101
SB102
SB103
SB104
SB105
SB106
SB107
SB108
SB109
NB60
NB61
NB62
NB63
NB64
NB65
NB66
NB67
NB68
NB69
NB70

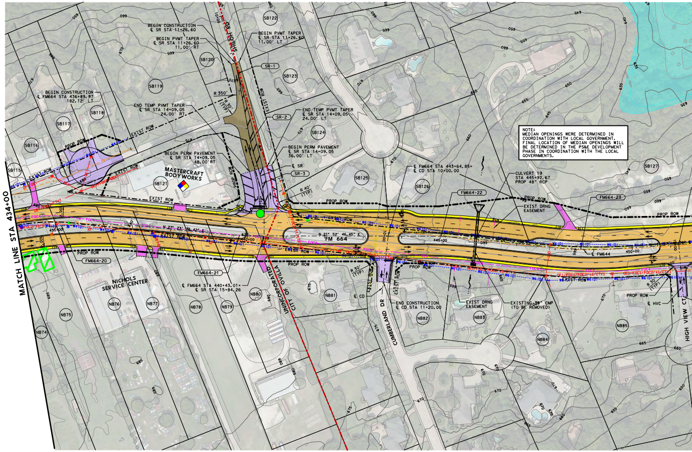


HI VIEW DR
℄ FM664 STA 395+83.64= ℄ HVD STA 10+00.00
FM 664 PROPOSED GRADE
FM 664 EXISTING GROUND
VPI STA = 402+55.00
EL = 716.93'
ex = -0.33'
K = 467
L = 350.00
VPC 400+80.00 EL=718.77
(-)1.05 %
(-)1.80 %
MIRANDA WAY
℄ FM664 STA 402+50.56= ℄ MW STA 10+00.00
CLARK CT
℄ FM664 STA 403+77.13= ℄ CC STA 11+47.47
VPT 404+30.00 EL=713.78
KAY RD
℄ FM664 STA 408+80.91= ℄ KR STA 11+77.90
EAST HIGHLAND RD
℄ FM664 STA 408+91.74= ℄ EHR STA 10+00.00
VPC 411+00.00 EL=701.71
(-)1.80 %
VPI STA = 411+75.00
EL = 700.36'
ex = 0.24'
K = 115
L = 150.00
VPT 412+50.00 EL=699.99
(-)0.50 %
CULVERT 16 STA 412+98.85 PROP 6'x3' SBC
EXIST 4'x3' SBC TO BE REMOVED
HW 100=697.57
HW 25=696.92
VPC 414+00.00 EL=699.24
(-)0.50 %
VPI STA = 414+75.00
EL = 698.86'
ex = 0.24'
K = 117
L = 150.00
VPT 415+50.00 EL=699.45
(+)0.78 %
SLIPPERY CREEK ST
℄ FM664 STA 416+31.38= ℄ SCS STA 10+00.00
VPC 417+50.00 EL=701.00
VPI STA = 419+25.00
EL = 702.36'
ex = -0.71'
K = 216
L = 350.00
(+)0.78 %
(-)0.84 %
VPT 421+00.00 EL=700.89
400+00
405+00
410+00
415+00
420+00

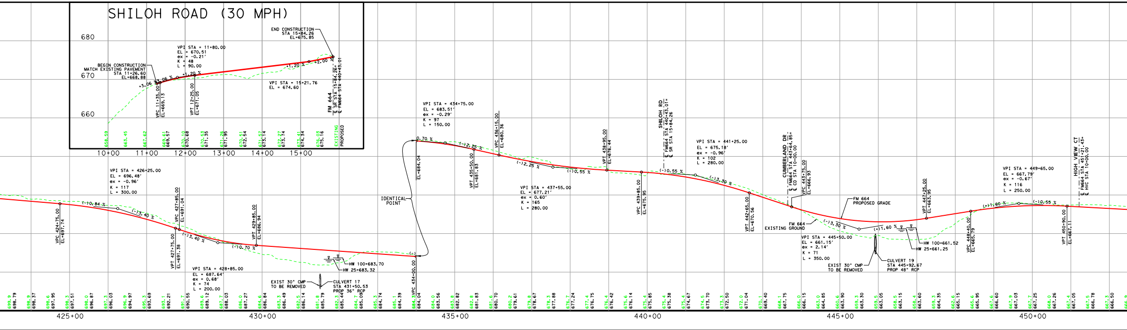

EXIST ROW
PROP ROW
EXIST DRNG EASEMENT
EXISTING 30" CMP (TO BE REMOVED)
CULVERT 17
STA 431+50.53
PROP 36" RCP
EXIST DRNG EASEMENT
FM664-20
FM 664
MATCH LINE STA 434+00
SB110
SB111
SB112
SB113
SB114
SB115
NB71
NB72
NB73
NB74

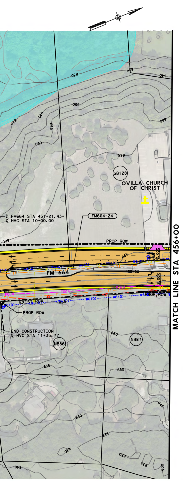
SUPERELEVATION TABLE

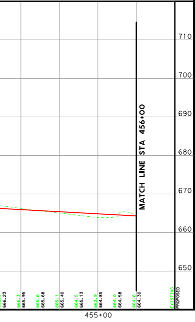
CHAIN ID.	BEGIN TRANSITION		END TRANSITION		BEGIN TRANSITION		END TRANSITION	
	STA	e	STA	e	STA	e	STA	e
FM 664 NORTHBOUND	419+50.00	-2.00%	423+00.00	2.00%	428+00.00	2.00%	431+50.00	-2.00%
FM 664 SOUTHBOUND	419+50.00	-2.00%	423+00.00	-2.00%	428+00.00	-2.00%	431+50.00	-2.00%


MATCH LINE STA 434+00
SHILOH RD
BEGIN CONSTRUCTION
℄ SR STA 11+26.60
BEGIN PVMT TAPER
℄ SR STA 11+26.60
11.00' RT
BEGIN PVMT TAPER
℄ SR STA 11+26.60
11.00' LT
SR-1
SR-2
SR-3
R 350'
R 30' (TYP)
EXIST ROW
BEGIN CONSTRUCTION
℄ FM664 STA 436+89.97
182.12' LT
END TEMP PVMT TAPER
℄ SR STA 14+09.05
24.00' RT
END TEMP PVMT TAPER
℄ SR STA 14+09.05
24.00' LT
BEGIN PERM PAVEMENT
℄ SR STA 14+09.05
48.00' RT
BEGIN PERM PAVEMENT
℄ SR STA 14+09.05
36.00' LT
℄ SR
R 40' (TYP)
MASTERCRAFT BODYWORKS
PROP ROW
℄ FM664 STA 443+64.85=
℄ CD STA 10+00.00
CULVERT 19
STA 445+92.67
PROP 48" RCP
FM664-22
FM664-23
EXIST DRNG EASEMENT
FM 664
FM664-20
FM664-21
℄ FM664 STA 440+43.01=
℄ SR STA 15+84.26
NICHOLS SERVICE CENTER
UNINCORPORATED
CITY OF OVILLA
℄ CD
CUMBERLAND DR
END CONSTRUCTION
℄ CD STA 11+20.00
EXIST DRNG EASEMENT
EXISTING 30" CMP (TO BE REMOVED)
HIGH VIEW CT
℄ HVC
SB116
SB117
SB118
SB119
SB120
SB121
SB122
SB123
SB124
SB125
SB126
SB127
NB74
NB75
NB76
NB77
NB78
NB79
NB80
NB81
NB82
NB83
NB84
NB85

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.




OVILLA CHURCH OF CHRIST
SB128
FM664-24
℄ FM664 STA 451+21.43=
℄ HVC STA 10+00.00
PROP ROW
FM 664
EXIST ROW
END CONSTRUCTION
℄ HVC STA 11+35.77
NB86
NB87
665
660
655
650
645
640
635
630
MATCH LINE STA 456+00



Texas Department of Transportation®

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

FARM TO MARKET ROAD 664 (OVILLA RD)

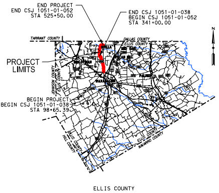
PROJECT LIMIT:
FROM US 287 TO WESTMORELAND RD

CSJ: 1051-01-038
1051-01-052

FUNCTIONAL CLASS: MINOR URBAN ARTERIAL

DESIGN SPEED: 40 mph FM 664
30 mph CROSS-ST
25 mph MAIN ST

PROJECT LENGTH: 8.084 MILES


END PROJECT
END CSJ 1051-01-052
STA 525+50.00
END CSJ 1051-01-038
BEGIN CSJ 1051-01-052
STA 341+00.00
TARRANT COUNTY
DALLAS COUNTY
ELLIS COUNTY
PROJECT LIMITS
JOHNSON COUNTY
ELLIS COUNTY
BEGIN PROJECT
BEGIN CSJ 1051-01-038
STA 98+65.39
HILL COUNTY
ELLIS COUNTY
NAVARRO COUNTY
WAXAHACHIE
N
ELLIS COUNTY

LOCATION MAP
N.T.S.

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

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

OCTOBER 2019

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

DATE SUBMITTED
10/11/2019

DATE APPROVED

DATE REVISED

ROLL 5 OF 6

PRELIMINARY
FOR INTERIM REVIEW ONLY. NOT FOR PERMITTING, BIDDING, OR CONSTRUCTION.
Prepared by or under the Direct Supervision of
HOWARD C. GIBBS III, P.E. 100239
10/11/2019

NOT INTENDED FOR CONSTRUCTION, BIDDING, OR PERMIT PURPOSES

100% SUBMITTAL

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

Texas Department of Transportation®

DALLAS DISTRICT
DESIGN SCHEMATIC

MOHAMED K. BUR, P.E., DISTRICT ENGINEER
ELLIS COUNTY

FARM TO MARKET ROAD 664 (OVILLA RD)

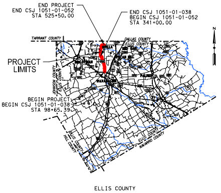
PROJECT LIMIT:
FROM US 287 TO WESTMORELAND RD

CSJ: 1051-01-038
1051-01-052

FUNCTIONAL CLASS: MINOR URBAN ARTERIAL

DESIGN SPEED: 40 mph FM 664
30 mph CROSS-ST
25 mph MAIN ST

PROJECT LENGTH: 8.084 MILES


END PROJECT
END CSJ 1051-01-052
STA 525+50.00
END CSJ 1051-01-038
BEGIN CSJ 1051-01-052
STA 341+00.00
PROJECT LIMITS
BEGIN PROJECT
BEGIN CSJ 1051-01-038
STA 98+65.39
TARRANT COUNTY
DALLAS COUNTY
ELLIS COUNTY
JOHNSON COUNTY
ELLIS COUNTY
HILL COUNTY
ELLIS COUNTY
ELLIS COUNTY
NAVARRO COUNTY
OVILLA
RED OAK
PECAN HILL
MIDLOTHIAN
WAXAHACHIE
PALMER
N
ELLIS COUNTY

LOCATION MAP
N.T.S.

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

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

OCTOBER 2019

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

DATE SUBMITTED	10/11/2019
DATE APPROVED	
DATE REVISED	

ROLL 6 OF 6

PRELIMINARY
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10/11/2019

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100% SUBMITTAL

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

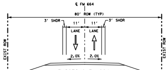
FILE NAME: M:\PROJECTS\TxDOT\FM 664\DGN\ULTIMATE SCHEMATICS\FM664_ROLL 6.dgn

LEGEND:

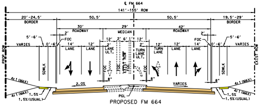
🟧	PROPOSED MAINLANES
▨	PAVEMENT TO BE REMOVED
🟪	PROPOSED DRIVEWAYS
🟪	PROPOSED CROSS STREETS
🟫	TEMPORARY PAVEMENT
🟧	PROPOSED BRIDGE STRUCTURES
🟨	PROPOSED SIDEWALKS
▨	PROPOSED DISPLACEMENTS
▬	PROPOSED DRAINAGE EASEMENT
═	PROPOSED DRAINAGE STRUCTURE
▬	100 YR FLOODPLAIN
- · -	EXISTING ROW
━ · ━	PROPOSED ROW
— - -	PROPOSED CENTERLINE/BASELINE
━	PROPOSED RETAINING WALL
(XXXXX)	CURVE NUMBER
→	DIRECTION OF TRAVEL
↝	DIRECTION OF FLOW
(XXXX)	PARCEL ID NUMBER
⚑	SCHOOL
◆	HAZARDOUS MATERIALS SITE
●	THC HISTORICAL MARKER
✝	CHURCH
◆	THC NEIGHBORHOOD SURVEY STRUCTURE

NOTES:

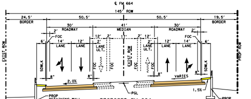
1. EXISTING FEATURES WERE NOT FIELD SURVEYED. SCHEMATICS ARE BASED ON AERIAL SURVEYS DATED OCTOBER 2017 AND RECORD PLANS.
2. ADA RAMPS ARE NOT DEPICTED ON THE PLAN. THE EXACT LOCATIONS OF ADA RAMPS AND SIDEWALKS WILL BE DETERMINED DURING THE FINAL DESIGN THROUGH COORDINATION BETWEEN TxDOT AND LOCAL GOVERNMENTS.
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 FINAL DESIGN.
5. BUILDINGS ARE SHOWN AS POTENTIAL DISPLACEMENTS IF THE PROPOSED ROW PHYSICALLY INTERSECTS THE EXISTING BUILDING STRUCTURE OR ACCESS IS ELIMINATED BY WALL.
6. UNLESS OTHERWISE NOTED, EXISTING PAVEMENT AND BRIDGES LOCATED WITHIN LIMITS OF PROPOSED RECONSTRUCTION WILL BE REMOVED.
7. DIMENSIONS ARE TO FACE OF CURB OR TO THE EDGE OF UNCURBED PAVEMENT UNLESS NOTED OTHERWISE.
8. SUPERELEVATION AXIS OF ROTATION IS ABOUT THE PGL.
9. DIMENSIONS ARE TO THE EDGE OF PAVEMENT OR NOMINAL FACE OF CURB, RAIL, BARRIER OR WALL (UNLESS NOTED OTHERWISE).
10. APPROXIMATE 100 YEAR FLOODPLAIN LIMITS ARE BASED UPON FEMA FLOOD INSURANCE RATE MAP 48139C0050F.
11. OWNERSHIP INFORMATION SHOWN ON SCHEMATIC OBTAINED FROM ELLIS COUNTY APPRAISAL DISTRICT (JUNE 2018).
12. ALL CURBS ARE TYPE II UNLESS NOTED OTHERWISE.


℄ FM 664
80' ROW (TYP)
3' SHDR
11'
11'
3' SHDR
LANE
LANE
2.0%
2.0%
EXIST ROW
EXIST ROW

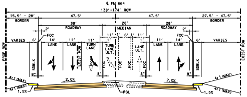
EXISTING FM 664
TYPICAL SECTION


℄ FM 664
141'-155' ROW
20'-24.5' BORDER
50.5'
50.5'
19.5'-29' BORDER
30' ROADWAY
29' MEDIAN
42' ROADWAY
VARIES
LANE
TURN LANE ULT.
SDWLK
FOC
2.0%
PGL
VARIES
4:1 (MAX)
1.5% (USUAL)
PROP ROW
EXIST ROW

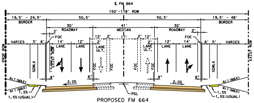
PROPOSED FM 664
TYPICAL SECTION
STA 501+07 TO 503+92


℄ FM 664
145' ROW
24.5' BORDER
50.5'
50.5'
19.5' BORDER
30' ROADWAY
41' MEDIAN
30' ROADWAY
LANE
LANE ULT.
SDWLK
FOC
2.0%
PGL
VARIES
1.5%
PROP RETAINING WALL
PROP RETAINING WALL
EXIST ROW
PROP ROW

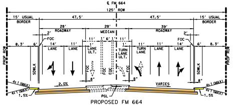
PROPOSED FM 664
TYPICAL SECTION
STA 468+05 TO 469+10


℄ FM 664
138'-174' ROW
15.5' - 28' BORDER
47.5'
47.5'
27.5' - 47.5' BORDER
39' ROADWAY
28' MEDIAN
28' ROADWAY
VARIES
TURN LANE ULT.
SDWLK
FOC
2.0%
PGL
4:1 (MAX)
1.5%
PROP ROW
EXIST ROW

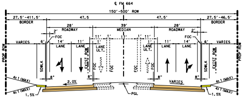
PROPOSED FM 664
TYPICAL SECTION
STA 458+13 TO 461+88
STA 482+28 TO 486+04


℄ FM 664
150'-178' ROW
19.5' - 24.5' BORDER
50.5'
50.5'
19.5' - 48' BORDER
30' ROADWAY
41' MEDIAN
30' ROADWAY
VARIES
LANE
LANE ULT.
SDWLK
FOC
2.0%
PGL
4:1 (MAX)
1.5% (USUAL)
PROP ROW
EXIST ROW

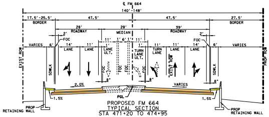
PROPOSED FM 664
TYPICAL SECTION
STA 508+58 TO 525+50


℄ FM 664
125' ROW
15' USUAL BORDER
47.5'
47.5'
15' USUAL BORDER
28' ROADWAY
28' MEDIAN
39' ROADWAY
8.3'
8.3'
TURN LANE ULT.
SDWLK
FOC
2.0%
PGL
VARIES
4:1 (MAX)
1.5%
PROP ROW

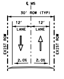
PROPOSED FM 664
TYPICAL SECTION
STA 453+26 TO 457+01


℄ FM 664
150'-500' ROW
27.5'-411.5' BORDER
47.5
47.5'
27.5'-46.5' BORDER
28' ROADWAY
39' MEDIAN
28' ROADWAY
VARIES
LANE ULT.
SDWLK
FOC
2.0%
PGL
4:1 (MAX)
1.5%
PROP ROW
EXIST ROW

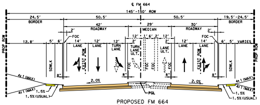
PROPOSED FM 664
TYPICAL SECTION
STA 461+88 TO 468+05
STA 486+04 TO 497+45


℄ FM 664
140'-148'
17.5'-25.5' BORDER
47.5'
47.5'
27.5' BORDER
28' ROADWAY
28' MEDIAN
39' ROADWAY
VARIES
TURN LANE ULT.
SDWLK
FOC
2.0%
PGL
1.5%
PROP RETAINING WALL
PROP RETAINING WALL
EXIST ROW
PROP ROW

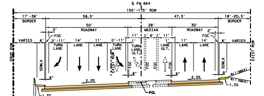
PROPOSED FM 664
TYPICAL SECTION
STA 471+20 TO 474+95


℄ MS
30' ROW (TYP)
12'
12'
LANE
LANE
2.0%
2.0%
EXIST ROW
EXIST ROW

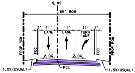
EXISTING MAIN ST
TYPICAL SECTION


℄ FM 664
145'-150' ROW
24.5' BORDER
50.5'
50.5'
19.5'-24.5' BORDER
42' ROADWAY
29' MEDIAN
30' ROADWAY
12.8'
VARIES
TURN LANE ULT.
SDWLK
FOC
2.0%
PGL
4:1 (MAX)
1.5% (USUAL)
PROP ROW

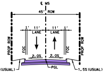
PROPOSED FM 664
TYPICAL SECTION
STA 498+45 TO 501+07
STA 504+83 TO 508+58


℄ FM 664
155'-175' ROW
17'-38' BORDER
58.5'
47.5'
18'-20.5' BORDER
50' ROADWAY
28' MEDIAN
30' ROADWAY
VARIES
TURN LANE ULT.
SDWLK
FOC
2.0%
PGL
1.5%
PROP RETAINING WALL
PROP ROW
EXIST ROW

PROPOSED FM 664
TYPICAL SECTION
STA 476+81 TO 481+18

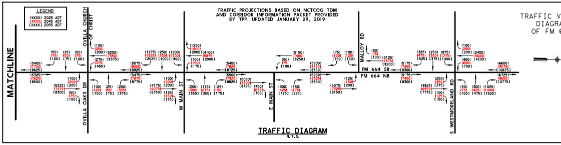

℄ MS
65' ROW
11'
11'
11'
11'
LANE
TURN LANE
FOC
2.0%
2.0%
PGL
1.5% (USUAL)
1.5% (USUAL)
PROP ROW
PROP ROW

PROPOSED MAIN ST
TYPICAL SECTION
STA. 11+27 TO 13+68


℄ MS
45' ROW
11'
11'
LANE
LANE
FOC
2.0%
2.0%
PGL
1.5% (USUAL)
1.5% (USUAL)
PROP ROW
PROP ROW

PROPOSED MAIN ST
TYPICAL SECTION
STA. 15+09 TO 16+70

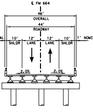
1' NOMINA
1' NOMINAL
PROPOSED C402 RAIL
TX40 I-GIRDERS
PROPOSED CAP AND COLUMN


LEGEND
(XXXX) 2025 ADT
[XXXX] 2045 ADT
[XXXX] 2055 ADT
TRAFFIC PROJECTIONS BASED ON NCTCOG TDM AND CORRIDOR INFORMATION PACKET PROVIDED BY TPP. UPDATED JANUARY 29, 2019
MATCHLINE
OVILLA CHURCH OF CHRIST
OVILLA OAKS DR
W MAIN ST
E MAIN ST
MALLOY RD
S WESTMORELAND RD
FM 664 SB
FM 664 NB
TRAFFIC V
DIAGRA
OF FM 6

TRAFFIC DIAGRAM
N.T.S.

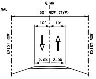
PRELIMINARY

NOT INTENDED FOR CONSTRUCTION OR BIDDING PURPOSES



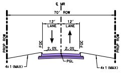
℄ FM 664
46'
OVERALL
44'
ROADWAY
10' SHLDR
12' LANE
12' LANE
10' SHLDR
1' NOMINAL
2.0%
2.0%

EXISTING FM 664 BRIDGE TYPICAL SECTION



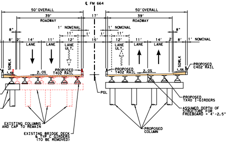
℄ MR
50' ROW (TYP)
10'
10'
EXIST ROW
EXIST ROW
2.0%
2.0%

EXISTING MALLOY RD TYPICAL SECTION



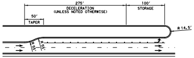
℄ MR
70' ROW
12' LANE
12' LANE
PROP ROW
PROP ROW
FOC
FOC
2.0%
2.0%
PGL
4:1 (MAX)
4:1 (MAX)

PROPOSED MALLOY RD TYPICAL SECTION
STA. 10+00 TO 14+66



℄ FM 664
50' OVERALL
39' ROADWAY
1' NOMINAL
8'
2'
14' LANE
11' LANE
12' LANE ULT.
17'
15'
50' OVERALL
39' ROADWAY
1' NOMINAL
12' LANE ULT.
11' LANE
14' LANE
8'
2'
1' NOMINAL
SDWLK
2.0%
PROPOSED T402 RAIL
2.0%
PROPOSED T402 RAIL
SDWLK
PROPOSED C402 RAIL
PGL
PROPOSED TX40 I-GIRDERS
ASSUMED DEPTH OF STRUCTURE FOR FREEBOARD = 4'-2.5"
EXISTING COLUMNS AND CAP TO REMAIN
EXISTING BRIDGE DECK & TYP C GIRDERS (TO BE REMOVED)
PROPOSED COLUMN

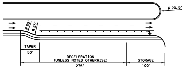
PROPOSED FM 664 BRIDGE TYPICAL SECTION
STA. 469+30.47 TO 471+00.47



275'
DECELERATION (UNLESS NOTED OTHERWISE)
100'
STORAGE
50'
TAPER
R 14.5'
R 50'
R 50'

TYPICAL LEFT-TURN BAY DETAILS

N.T.S



R 20.5'
R 50'
R 50'
TAPER
50'
DECELERATION (UNLESS NOTED OTHERWISE)
275'
STORAGE
100'

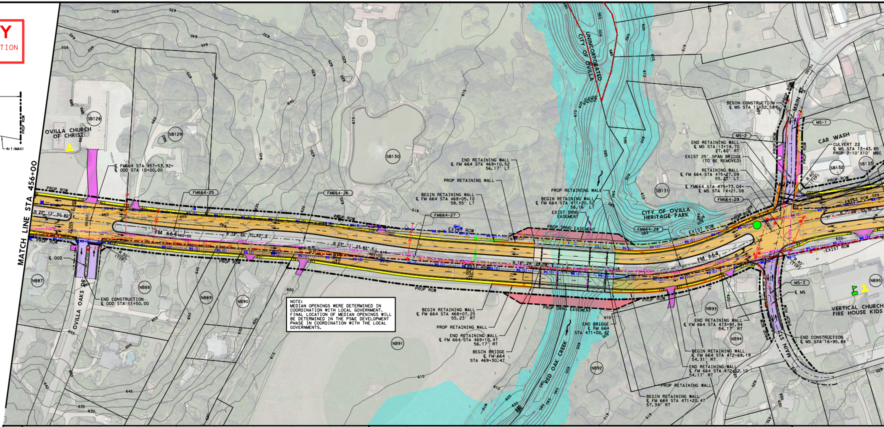
TYPICAL RIGHT-TURN BAY DETAILS

N.T.S

OWNER INFORMATION TABLE

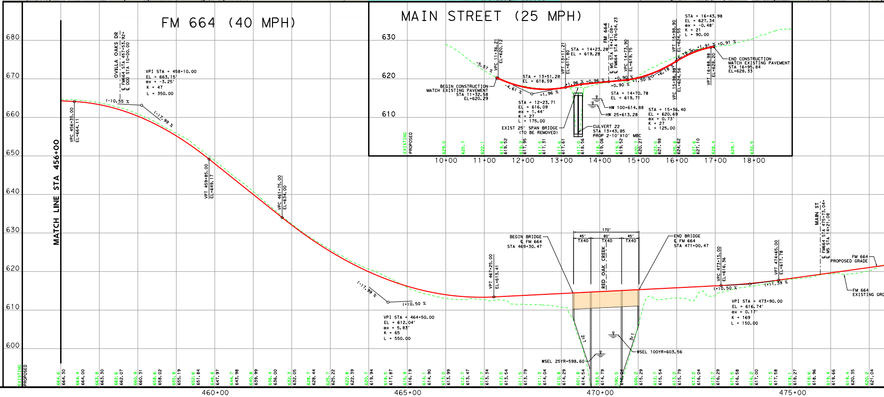
ID	NAME	STREET ADDRESS
NB88	HUGHES DONALD R & STEPHANIE L	101 OVILLA OAKS DR
NB89	VANCIL ELLIOT & TARA	105 DUSTY OAK TRL
NB90	CHOVANETZ RAYMOND E	3419 OVILLA RD
NB91	DMJ PROPERTIES LTD	103 DUSTY OAK TRL
NB92	GREENBEG ALLISON & RICK	RED OAK CREEK DR
NB93	SHAHA RITA E & STEPHEN POGUE	E MAIN ST
NB94	HOGUE BUNDY L SR & SUSAN L	704 E MAIN ST
NB95	FIRST BAPTIST CHURCH	803 E MAIN ST
NB96	OVILLA MARKET CORP	3323 FM 664
NB97	OVILLA MARKET CORP	3321 OVILLA RD
NB98	ECONO FUEL INC	3319 FM 664
NB99	ANIMAL HOSPITAL OF OVILLA	3357 OVILLA RD
NB100	SMITH TERRY D & PATRICIA K	3319 OVILLA RD
NB101	BLEDSOE JAMES E	3317 OVILLA RD
NB102	MARLOW MAXINE 2	3315 OVILLA RD
NB103	NORTON DALE H & LYNETTE	833 E MAIN ST
NB104	SHAHA RITA E	3313 OVILLA RD
NB105	HINSON PATRICIA	3309 OVILLA RD
NB106	SOTHWESTERN BELL TELEPHONE CO	FM 664
NB107	KOVAL PAMILEE	839 E MAIN ST
SB128	OVILLA CHURCH OF CHRIST	3420 OVILLA RD
SB129	DMJ PROPERTIES LTD	3418 OVILLA RD
SB130	SHARAF FAMILY TRUST	3412 FM 664
SB131	POGUE STEPHEN DWIGHT	706 E MAIN ST
SB132	OVILLA MARKET CORP	696 W MAIN ST
SB133	FIRST BAPTIST CHURCH	FM 664
SB134	ROGOWICZ TAMARA LYNN	WATER ST
SB135	ROGOWICZ RAYMOND C & TAMARA L	3324 FM 664
SB136	OVILLA AUTOMOTIVE SERVICES CO	3322 FM 664
SB137	GREENBERG ALLISON & RICK	3320 OVILLA RD
SB138	JERRY BARR	3316 OVILLA RD
SB139	HOLLAND MICHAEL C	3314 OVILLA RD
SB140	WADE JIMMIE J	FM 664
EB1	OVILLA ROAD BAPTIST	3251 OVILLA RD
EB2	OVILLA ROAD BAPTIST	3251 OVILLA RD
EB3	MCMAHON BYRON C	FM 664 OVILLA
EB4	WILDWOOD DEVELOPMENT CO I LTD	WESTMORELAND RD
EB5	TRANSCON LAND DEVELOPMENT LLC	WESTMORELAND RD
WB1	HARGROVE CLYDE L & LOUIS H LEBOWITZ	MALLOY RD
WB2	7305 LTD	FM 664

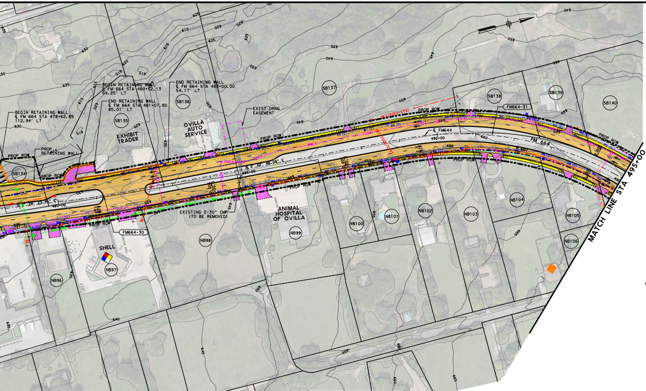
OLUME
AM
664



MATCH LINE STA 456+00
OVILLA CHURCH OF CHRIST
SB128
SB129
SB130
SB131
SB132
SB133
NB87
NB88
NB89
NB90
NB91
NB92
NB93
NB94
NB95
OVILLA OAKS DR
℄ FM664 STA 457+53.92=
℄ OOD STA 10+00.00
END CONSTRUCTION
℄ OOD STA 11+50.00
℄ OOD
R 30' (TYP)
PROP ROW
EXIST ROW
FM 664
FM664-25
FM664-26
FM664-27
FM664-28
FM664-29
N 22° 13' 50.80" E
N 18° 20' 31.83" E
N 23° 11' 23.83" E
N 18° 21' 23.02" E
460+00
465+00
W6(D)
FOC
PROP RETAINING WALL
BEGIN RETAINING WALL
℄ FM 664 STA 468+05.10
58.55' LT
END RETAINING WALL
℄ FM 664 STA 469+10.52
56.17' LT
BEGIN RETAINING WALL
℄ FM 664 STA 471+20.52
56.16' LT
EXIST DRNG EASEMENT
PROP DRNG EASEMENT
BEGIN RETAINING WALL
℄ FM 664 STA 468+07.25
55.23' RT
END RETAINING WALL
℄ FM 664 STA 469+10.47
56.17' RT
BEGIN BRIDGE
℄ FM 664
STA 469+30.47
END BRIDGE
℄ FM 664
STA 471+00.47
BEGIN RETAINING WALL
℄ FM 664 STA 471+20.47
57.34' RT
RED OAK CREEK
UNINCORPORATED
CITY OF OVILLA
CITY OF OVILLA HERITAGE PARK
END RETAINING WALL
℄ FM 664 STA 473+91.94
54.17' RT
BEGIN RETAINING WALL
℄ FM 664 STA 472+69.19
54.31' RT
END RETAINING WALL
℄ FM 664 STA 472+52.10
54.17' RT
BEGIN CONSTRUCTION
℄ MS STA 11+32.58
MAIN ST
MS-1
MS-2
MS-3
℄ MS
CAR WASH
CULVERT 22
℄ MS STA 13+43.85
PROP 2-10'X10' MBC
END RETAINING WALL
℄ MS STA 13+14.70
27.60' RT
EXIST 25' SPAN BRIDGE
(TO BE REMOVED)
RETAINING WALL
℄ FM 664 STA 475+77.09
55.87' LT
℄ FM664 STA 475+73.04=
℄ MS STA 14+21.08
R 40' (TYP)
END CONSTRUCTION
℄ MS STA 16+95.84
VERTICAL CHURCH
FIRE HOUSE KIDS
620
615
610
605
600
595
590
585
630
635
640
645
650
655
660

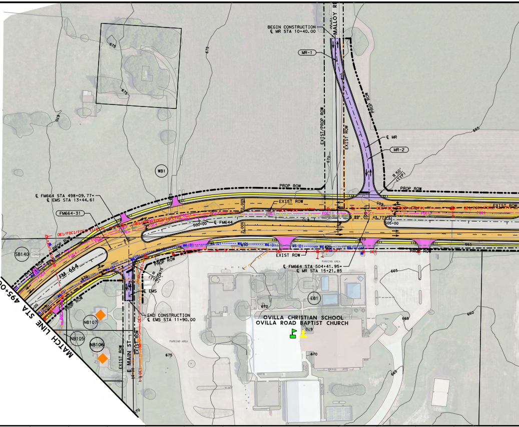
NOTE:
MEDIAN OPENINGS WERE DETERMINED IN COORDINATION WITH LOCAL GOVERNMENT. FINAL LOCATION OF MEDIAN OPENINGS WILL BE DETERMINED IN THE PS&E DEVELOPMENT PHASE IN COORDINATION WITH THE LOCAL GOVERNMENTS.

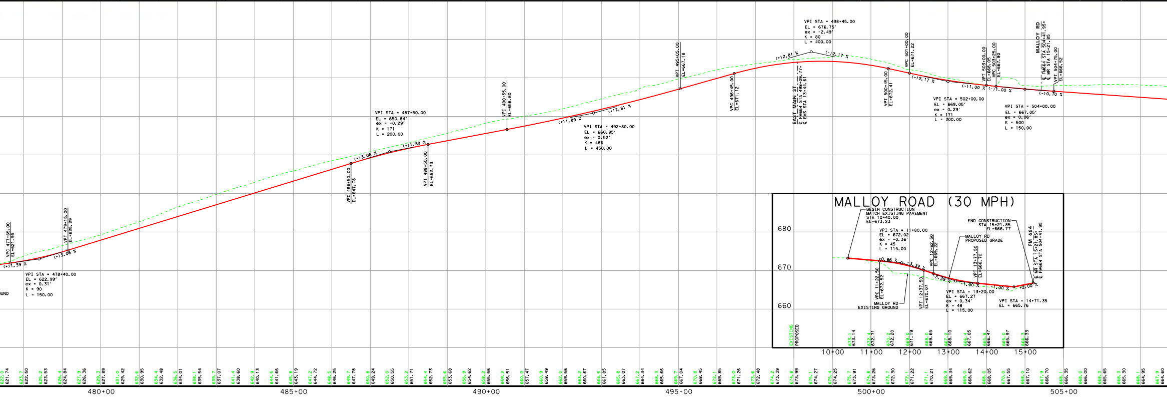



BEGIN RETAINING WALL
℄ FM 664 STA 478+62.85
112.94' LT
BEGIN RETAINING WALL
℄ FM 664 STA 480+52.13
54.25' LT
END RETAINING WALL
℄ FM 664 STA 481+07.80
85.01' LT
END RETAINING WALL
℄ FM 664 STA 487+00.00
54.17' LT
EXIST DRNG EASEMENT
PROP RETAINING WALL
PROP ROW
EXHIBIT TRADER
OVILLA AUTO SERVICE
ANIMAL HOSPITAL OF OVILLA
SHELL
EXISTING 2-30" CMP (TO BE REMOVED)
FM664-30
FM664-31
℄ FM644
FM 664
MATCH LINE STA 495+00
SB134
SB135
SB136
SB137
SB138
SB139
SB140
NB96
NB97
NB98
NB99
NB100
NB101
NB102
NB103
NB104
NB105
NB106

SUPERELEVATION TABLE

CHAIN ID.	BEGIN TRANSITION		END TRANSITION		BEGIN TRANSITION		END TRANSITION	
	STA	e	STA	e	STA	e	STA	e
FM 664 NORTHBOUND	464+00.00	-2.00%	467+50.00	2.00%	484+00.00	2.00%	487+50.00	-2.00%
FM 664 SOUTHBOUND	464+00.00	-2.00%	467+50.00	-2.00%	484+00.00	-2.00%	487+50.00	-2.00%


BEGIN CONSTRUCTION
℄ MR STA 10+40.00
MALLOY RD
MR-1
MR-2
℄ MR
R 50' (TYP)
EXIST/PROP ROW
EXIST ROW
PROP ROW
℄ FM664 STA 498+09.77=
℄ EMS STA 13+44.61
FM664-31
℄ FM644
FM 664
℄ FM664 STA 504+41.95=
℄ MR STA 15+21.85
E MAIN ST
℄ EMS
END CONSTRUCTION
℄ EMS STA 11+90.00
MATCH LINE STA 495+00
OVILLA CHRISTIAN SCHOOL
OVILLA ROAD BAPTIST CHURCH
PARKING AREA
WB1
EB1
SB140
NB105
NB106
NB107


VPC 477+65.00
EL=621.95
VPT 479+15.00
EL=625.29
(+)1.39 %
(+)3.06 %
VPI STA = 478+40.00
EL = 622.99'
ex = 0.31'
K = 90
L = 150.00
VPC 486+50.00
EL=647.78
VPI STA = 487+50.00
EL = 650.84'
ex = -0.29'
K = 171
L = 200.00
(+)3.06 %
(+)1.89 %
VPT 488+50.00
EL=652.73
VPC 490+55.00
EL=656.60
VPI STA = 492+80.00
EL = 660.85'
ex = 0.52'
K = 486
L = 450.00
(+)1.89 %
(+)2.81 %
VPT 495+05.00
EL=667.18
VPC 496+45.00
EL=671.12
VPI STA = 498+45.00
EL = 676.75'
ex = -2.49'
K = 80
L = 400.00
(+)2.81 %
(-)2.17 %
EAST MAIN ST
℄ FM664 STA 498+09.77=
℄ EMS STA 13+44.61
VPT 500+45.00
EL=672.41
VPC 501+00.00
EL=671.22
(-)2.17 %
VPI STA = 502+00.00
EL = 669.05'
ex = 0.29'
K = 171
L = 200.00
VPT 503+00.00
EL=668.05
VPC 503+25.00
EL=667.80
(-)1.00 %
(-)1.00 %
MALLOY RD
℄ FM664 STA 504+41.95=
℄ MR STA 15+21.85
VPT 504+75.00
EL=666.52
(-)0.70 %
VPI STA = 504+00.00
EL = 667.05'
ex = 0.06'
K = 500
L = 150.00
480+00
485+00
490+00
495+00
500+00
505+00
MALLOY ROAD (30 MPH)
BEGIN CONSTRUCTION
MATCH EXISTING PAVEMENT
STA 10+40.00
EL=673.23
VPI STA = 11+80.00
EL = 672.02
ex = -0.36'
K = 45
L = 115.00
-0.86 %
-3.39 %
VPC 11+22.50
EL=672.52
VPT 12+37.50
EL=670.07
VPC 12+62.50
EL=669.22
MALLOY RD
PROPOSED GRADE
MALLOY RD
EXISTING GROUND
VPT 13+77.50
EL=666.70
VPI STA = 13+20.00
EL = 667.27
ex = 0.34'
K = 48
L = 115.00
-1.00 %
-1.00 %
+2.00 %
END CONSTRUCTION
STA 15+21.85
EL=666.77
FM 664
℄ MR STA 15+21.85=
℄ FM664 STA 504+41.95
VPI STA = 14+71.35
EL = 665.76
680
670
660
EXISTING
PROPOSED
673.1
673.14
672.4
672.71
670.2
672.20
669.0
671.19
668.0
669.65
667.2
668.10
666.4
667.05
665.8
666.47
665.0
665.97
666.3
666.33
10+00
11+00
12+00
13+00
14+00
15+00

Texas Department of Transportation®

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

FARM TO MARKET ROAD 664 (OVILLA RD)

PROJECT LIMIT:
FROM US 287 TO WESTMORELAND RD

CSJ: 1051-01-038
1051-01-052

FUNCTIONAL CLASS: MINOR URBAN ARTERIAL

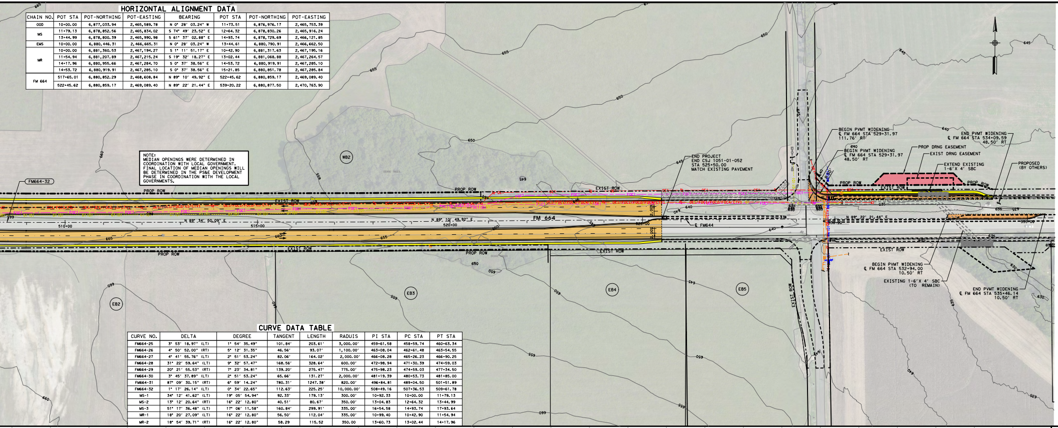
DESIGN SPEED: 40 mph FM 664
30 mph CROSS-ST
25 mph MAIN ST

PROJECT LENGTH: 8.084 MILES

HORIZONTAL ALIGNMENT DATA

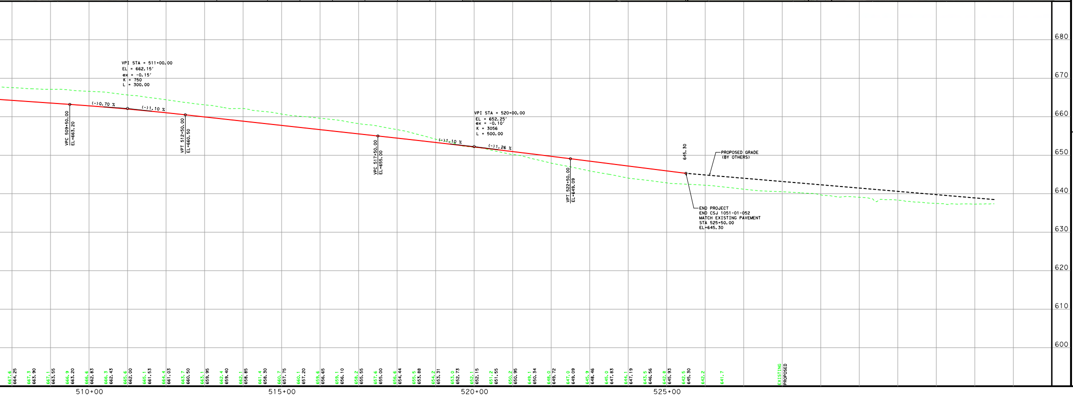
CHAIN NO.	POT STA	POT-NORTHING	POT-EASTING	BEARING	POT STA	POT-NORTHING	POT-EASTING
OOD	10+00.00	6,877,033.94	2,465,589.78	N 0° 28′ 03.24" W	11+73.51	6,876,976.17	2,465,753.39
MS	11+79.13	6,878,852.56	2,465,834.02	S 74° 49′ 23.52" E	12+64.32	6,878,830.26	2,465,916.24
	13+44.99	6,878,800.39	2,465,990.98	S 61° 37′ 02.88" E	14+93.74	6,878,729.69	2,466,121.85
EMS	10+00.00	6,880,446.31	2,466,665.31	N 0° 28′ 03.24" W	13+44.61	6,880,790.91	2,466,662.50
MR	10+00.00	6,881,360.53	2,467,194.27	S 1° 11′ 51.17" E	10+42.90	6,881,317.63	2,467,195.16
	11+54.94	6,881,207.89	2,467,215.24	S 19° 32′ 18.27" E	13+02.44	6,881,068.88	2,467,264.57
	14+17.96	6,880,955.66	2,467,284.70	S 0° 37′ 38.56" E	14+53.72	6,880,919.91	2,467,285.10
	14+53.72	6,880,919.91	2,467,285.10	S 0° 37′ 38.56" E	15+21.85	6,880,851.78	2,467,285.84
FM 664	517+65.01	6,880,852.29	2,468,608.84	N 89° 10′ 49.92" E	522+45.62	6,880,859.17	2,469,089.40
	522+45.62	6,880,859.17	2,469,089.40	N 89° 22′ 21.44" E	539+20.22	6,880,877.50	2,470,763.90

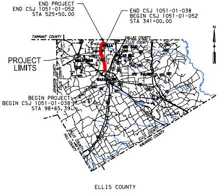
NOTE:
MEDIAN OPENINGS WERE DETERMINED IN COORDINATION WITH LOCAL GOVERNMENT. FINAL LOCATION OF MEDIAN OPENINGS WILL BE DETERMINED IN THE PS&E DEVELOPMENT PHASE IN COORDINATION WITH THE LOCAL GOVERNMENTS.


FM664-32
PROP ROW
EXIST ROW
N 89° 34′ 50.09" E
510+00
515+00
520+00
N 89° 10′ 49.92" E
FM 664
℄ FM644
N 89° 22′ 21.44" E
WB2
EB2
EB3
EB4
EB5
EXIST ROW
END PROJECT
END CSJ 1051-01-052
STA 525+50.00
MATCH EXISTING PAVEMENT
BEGIN PVMT WIDENING
℄ FM 664 STA 529+31.97
111.76′ RT
BEGIN PVMT WIDENING
℄ FM 664 STA 529+31.97
48.50′ RT
PROP DRNG EASEMENT
EXIST DRNG EASEMENT
EXTEND EXISTING
1-6′X 4′ SBC
END PVMT WIDENING
℄ FM 664 STA 534+09.59
48.50′ RT
PROPOSED
(BY OTHERS)
BEGIN PVMT WIDENING
℄ FM 664 STA 532+94.00
10.50′ RT
EXISTING 1-6′X 4′ SBC
(TO REMAIN)
END PVMT WIDENING
℄ FM 664 STA 535+46.14
10.50′ RT
OE1
FOC1
OE1/FOC1/FOC2/t1/CTV1
530+00
535+00

CURVE DATA TABLE

CURVE NO.	DELTA	DEGREE	TANGENT	LENGTH	RADUIS	PI STA	PC STA	PT STA
FM664-25	3° 53′ 18.97" (LT)	1° 54′ 35.49"	101.84′	203.61′	3,000.00′	459+61.58	458+59.74	460+63.34
FM664-26	4° 50′ 52.00" (RT)	5° 12′ 31.35"	46.56′	93.07′	1,100.00′	463+08.04	462+61.48	463+54.55
FM664-27	4° 41′ 55.76" (LT)	2° 51′ 53.24"	82.06′	164.02′	2,000.00′	466+08.28	465+26.23	466+90.25
FM664-28	31° 22′ 59.64" (LT)	9° 32′ 57.47"	168.56′	328.64′	600.00′	472+98.94	471+30.39	474+59.03
FM664-29	20° 21′ 55.53" (RT)	7° 23′ 34.81"	139.20′	275.47′	775.00′	475+98.23	474+59.03	477+34.50
FM664-30	3° 45′ 37.89" (LT)	2° 51′ 53.24"	65.66′	131.27′	2,000.00′	481+19.39	480+53.73	481+85.00
FM664-31	87° 09′ 30.15" (RT)	6° 59′ 14.24"	780.31′	1247.38′	820.00′	496+84.81	489+04.50	501+51.89
FM664-32	1° 17′ 26.14" (LT)	0° 34′ 22.65"	112.63′	225.25′	10,000.00′	508+49.16	507+36.53	509+61.78
MS-1	34° 12′ 41.62" (LT)	19° 05′ 54.94"	92.33′	179.13′	300.00′	10+92.33	10+00.00	11+79.13
MS-2	13° 12′ 20.64" (RT)	16° 22′ 12.80"	40.51′	80.67′	350.00′	13+04.83	12+64.32	13+44.99
MS-3	51° 17′ 36.48" (LT)	17° 06′ 11.58"	160.84′	299.91′	335.00′	16+54.58	14+93.74	17+93.64
MR-1	18° 20′ 27.09" (LT)	16° 22′ 12.80"	56.50′	112.04′	335.00′	10+99.40	10+42.90	11+54.94
MR-2	18° 54′ 39.71" (RT)	16° 22′ 12.80"	58.29	115.52	350.00	13+60.73	13+02.44	14+17.96




END PROJECT
END CSJ 1051-01-052
STA 525+50.00
END CSJ 1051-01-038
BEGIN CSJ 1051-01-052
STA 341+00.00
PROJECT LIMITS
BEGIN PROJECT
BEGIN CSJ 1051-01-038
STA 98+65.39
TARRANT COUNTY
DALLAS COUNTY
ELLIS COUNTY
JOHNSON COUNTY
HILL COUNTY
NAVARRO COUNTY
N

ELLIS COUNTY

LOCATION MAP
N.T.S.

HORIZ SCALE: 1"=100′
0 50 100 150 200

VERTICAL SCALE: 1"=10′
0 5 10 15 20

OCTOBER 2019

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

DATE SUBMITTED
10/11/2019

DATE APPROVED

DATE REVISED

ROLL 6 OF 6

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Prepared by or under the Direct Supervision of
HOWARD C. GIBBS III, P.E. 100239
10/11/2019

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100% SUBMITTAL

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