Texas Department of Transportation

© 2024 BY TEXAS DEPARTMENT OF TRANSPORTATION, ALL RIGHTS RESERVED

DALLAS DISTRICT
CEASON CLEMENS, P.E., DISTRICT ENGINEER

FM 663
60% DESIGN SCHEMATIC

ELLIS COUNTY, TEXAS
FM 663 FROM FM 875 TO US 287
CSJ: 0815-08-040
LENGTH: 3.48 MILES
DATED: APRIL 2025

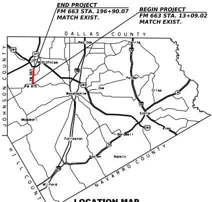
ROADWAY	DESIGN SPEED	FUNCTIONAL CLASSIFICATION
FM 663	45 MPH	MINOR ARTERIAL
FM 875	45 MPH	MAJOR COLLECTOR
US 287 EB FR	40 MPH	PRINCIPAL ARTERIAL
LOCAL STREETS	30 MPH	LOCAL

TXDOT RDM (2024) CHAPTER 4 BASIC DESIGN CRITERIA
(LEVEL TERRAIN)

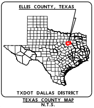
INDEX OF SHEETS

ROLL 1 OF 4 PLAN AND PROFILE VIEW STA 13+09.02 TO STA 80+00
ROLL 2 OF 4 PLAN AND PROFILE VIEW STA 80+00 TO STA 150+00
ROLL 3 OF 4 PLAN AND PROFILE VIEW STA 150+00 TO STA 196+90.07
ROLL 4 OF 4 SUPPLEMENTAL SIDE STREET PROFILES

ROLL 2 OF 4



END PROJECT
FM 663 STA. 196+90.07
MATCH EXIST.
BEGIN PROJECT
FM 663 STA. 13+09.02
MATCH EXIST.
DALLAS COUNTY
JOHNSON COUNTY
HILL COUNTY
NAVARRO COUNTY
MIDLOTHIAN
FM 663
FM 875
Red Oak
Ferris
Palmer
Waxahachie
Crisp
Ennis
Maypearl
Bardwell
Forreston
Avalon
Rankin
Milford
Ike
Alma



ELLIS COUNTY, TEXAS
TXDOT DALLAS DISTRICT

TEXAS COUNTY MAP
N.T.S.

LOCATION MAP
N.T.S.

LEGEND

EXISTING RIGHT OF WAY LINE
PROPOSED RIGHT OF WAY LINE
EXISTING LANDSCAPE EASEMENT BY OTHERS
CENTERLINE
PARCEL LINE
CITY/COUNTY BOUNDARY LINE
PROPOSED DRAINAGE STRUCTURE
DIRECTION OF FLOW
G EXISTING GAS LINE
C EXISTING TELEPHONE/CABLE/FIBER LINE
E EXISTING ELECTRIC LINE
PL EXISTING PETROLEUM LINE
WW EXISTING SANITARY SEWER LINE
SD EXISTING STORM DRAIN LINE
W EXISTING WATER LINE
OH EXISTING OH ELECTRIC LINE
x LEVEL B - SUE
☒ LEVEL C - SUE
(X) LEVEL D - SUE
🟨 PROPOSED CONCRETE PAVEMENT
🟪 PROPOSED DRIVEWAY
▨ PROPOSED SIDEWALK/SHARED USE PATH
🟧 ADJACENT PROJECT - BY OTHERS
🟩 PROPOSED RAISED MEDIAN
← PROPOSED LANES
(#) PARCEL IDENTIFYING NUMBER
PROPOSED RETAINING WALL
CURB WALL
METAL BEAM GUARD FENCE (MBGF)
▨ POTENTIAL DISPLACEMENT
▨ PROPOSED RIP RAP
🚦 EXISTING TRAFFIC SIGNAL

PRELIMINARY
FOR INTERIM REVIEW ONLY

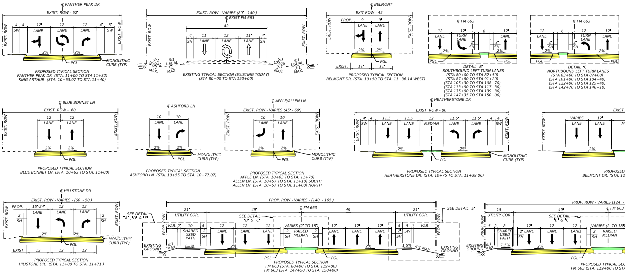
THESE DOCUMENTS ARE FOR INTERIM REVIEW AND REGULATORY APPROVAL. THEY ARE NOT INTENDED FOR PERMITTING,BIDDING OR CONSTRUCTION PURPOSES. THEY WERE PREPARED BY OR UNDER THE SUPERVISION OF:

RANDY L GROS, PE	134559	4/28/2025
NAME	P.E. NO.	DATE

SCALE:
1" = 100' HORIZONTAL
1" = 10' VERTICAL

GARVER
3000 INTERNET BLVD.
SUITE 400
FRISCO, TX 75034

FIRM REGISTRATION NO. 5713



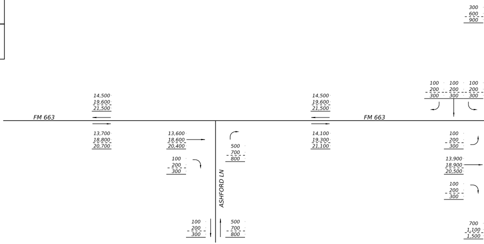
PROPOSED TYPICAL SECTION
PANTHER PEAK DR (STA. 11+00 TO STA 11+32)
KING ARTHUR (STA. 10+63.07 TO STA 11+40)
EXISTING TYPICAL SECTION (EXISTING TODAY)
(STA 80+00 TO STA 150+00)
PROPOSED TYPICAL SECTION
BELMONT DR. (STA. 10+50 TO STA. 11+36.14 WEST)
DETAIL "B"
SOUTHBOUND LEFT TURN LANES
(STA 80+00 TO STA 82+50)
(STA 87+80 TO STA 91+20)
(STA 105+30 TO STA 108+70)
(STA 113+90 TO STA 117+30)
(STA 135+90 TO STA 139+30)
(STA 147+35 TO STA 150+00)
DETAIL "C"
NORTHBOUND LEFT TURN LANES
(STA 83+60 TO STA 87+00)
(STA 101+00 TO STA 104+40)
(STA 122+00 TO STA 125+40)
(STA 142+70 TO STA 146+10)
PROPOSED TYPICAL SECTION
BLUE BONNET LN. (STA. 10+63 TO STA. 11+00)
PROPOSED TYPICAL SECTION
ASHFORD LN. (STA. 10+55 TO STA. 10+77.07)
PROPOSED TYPICAL SECTION
APPLE LN. (STA. 10+63 TO STA. 11+70)
ALLEN LN. (STA. 10+57 TO STA. 11+10) SOUTH
ALLEN LN. (STA. 10+57 TO STA. 11+00) NORTH
PROPOSED TYPICAL SECTION
HEATHERSTONE DR. (STA. 10+75 TO STA. 11+39.06)
PROPOSED TYPICAL SECTION
HILLSTONE DR. (STA. 11+00 TO STA. 11+71)
PROPOSED TYPICAL SECTION
FM 663 (STA. 80+00 TO STA. 119+00)
FM 663 (STA. 147+50 TO STA. 150+00)
EXIST. ROW
PROP. ROW
LANE
TURN LANE
SH
SW
MEDIAN
RAISED MEDIAN
SHARED USED PATH
UTILITY COR.
PGL
MONOLITHIC CURB (TYP)
EXISTING GROUND
4:1 MAX
2%

TYPICAL SECTIONS (N.T.S.)

TRAFFIC DESIGN DATA:
OPENING YEAR: 2035
DESIGN YEAR: 2055
PAVEMENT DESIGN YEAR: 2065

LEGEND:
XXXX 2035 AVERAGE DAILY TRAFFIC VOLUMES
XXXX 2055 AVERAGE DAILY TRAFFIC VOLUMES
XXXX 2065 AVERAGE DAILY TRAFFIC VOLUMES

NOTE:
SOURCE OF DATA: TXDOT, TRANSPORTATION PROGRAMMING AND PLANNING DIVISION MEMORANDUM, MAY 26, 2022.

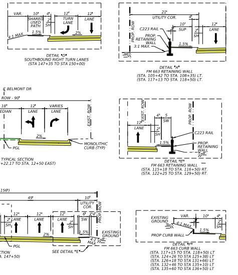


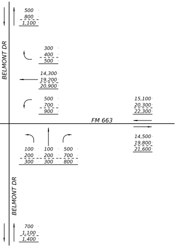
FM 663
FM 663
ASHFORD LN
14,500
19,600
21,500
13,700
18,800
20,700
13,600
18,600
20,400
14,500
19,600
21,500
14,100
19,300
21,100
100
200
300
500
700
800
13,900
18,900
20,500
300
600
900
700
1,100
1,500

PROPERTY OWNERS		
PARCEL NO.	OWNER	PROPERTY IMPACT
71	CANTRELL JEANNE (175329)	
72	ELLIS CLIFTON W & BRENDA C FULLER (175123)	
73	ARNOLD TAYLOR & MANDY ATKINS (182719)	
74	HARDEMAN LAKESHA N & DAVIS EVASIETTA D (184085)	
75	BRADAM LARRY & CONNIE (17554)	
76	SCOTT JOSE M JR & TAMARA N (176845)	
77	KOONCE DONALD R & SHREE S (78106)	
78	MUNGER EDWARD A & JEANNE R (46950)	
79	BRADFORD BOBIE (208337)	
80	BERMUDEZ JHON & ELENA STEFANOVA (219593)	
81	PENDERGRASS FRANK & MARIA (96089)	
82	MASHBURN JACK R & KATHERINE A (131981)	
83	EAST BILL & LUANNE K (72472)	
84	PROPERTY NOT FOUND	
85	HOLVECK J A & LYNDA (40004)	
86	WOODBERRY D'ANGELO D & ADRIENNE A (201092)	
87	HOLVECK J A & LYNDA (40004)	
88	HARDY JOYCE F (196719)	
89	HARDY JOYCE F (196719)	
90	BAUCUM DAN & JEANNIE FAMILY LP (111081)	
91	HARDY JOYCE F (196719)	
92	HARDY JOYCE F (196719)	
93	BAUCUM DAN D (102861)	
94	MAJOR FREDERICK J (104670)	
95	MIDLOTHIAN BIBLE CHURCH (33345)	
96	MOUNT ZION REAL ESTATE HOLDINGS LLC (179239)	
97	KT FREEWAY LLC (142148)	
98	KT FREEWAY LLC (142148)	
99	THOMAS DAVID E & LORETTA Z (36311)	
100	WOOLDRIDGE MARK (122861)	
101	A ROPE INVESTMENTS LLC	
102	S & S PREFFERED PROPERTIES LLC (97693)	
103	MENDIGUREN DANIEL E (210946)	
104	PROPERTY NOT FOUND	
105	HEDRICK JOHN D & DAVID W HEDRICK (156908)	

PROPERTY OWNERS		
PARCEL NO.	OWNER	PROPERTY IMPACT
106	JOHNSON STEVEN V & MARICIA R H (137061)	
107	MENTZEL FAMILY FIRST LIMITED PARTNERSHIP (176401)	
108	MENTZEL CLINTON R & ALEXIA (195186)	
109	DELASIERRA FRANCISCO J & SABINA JAIMES (214983)	
110	TEAUGE ROY A & REBECCA L (100318)	
111	ALAMUDUN KEHINDE O & OMOLARA D (164930)	
112	BERRY WILLIAM T & TERESA R LIGHTFOOT (212492)	
113	JACKSON KINYA B & RODNEY (169808)	
114	THOMPSON CHRISTAL A (168999)	
115	OLUDE AKINTOMIWA MOBOLAJI & FADEKEMI (172502)	
116	JOHNSON RODNEY D & THEOLA S (187302)	
117	MERRIFIELD CHRISTOPHER R & MADELINE E (206419)	
118	BARTON TERRY D & CYNTHIA H (140922)	
119	HICKMAN BRENT A & CHRISTI A (143320)	
120	LAWSON MIDLOTHIAN HOMEOWNERS ASSOCIATION INC (153651)	
121	AQUINO DARRY D & MARIE (180183)	
122	SMITH LOGAN T & ASHLEY M (217728)	
123	JONES DEMETRIA (155056)	
124	DOSSETT PATRICIA REVOCABLE TRUST (154927)	
125	LOTT JASON (202487)	
126	JMP PROPERTIES LP (98927)	
127	SERRATO ANTHONY A & THOMAS BATTLES JR (206853)	
128	LDL INVESTMENTS LTD (185113)	
129	SIMONEAUX PHILLIP & AMANDA (202554)	
130	RAMIREZ RICARDO & CAROLINA RAMIREZ (178878)	
131	LAWSON MIDLOTHIAN HOMEOWNERS ASSOCIATION (153217)	
132	VAUGHT SHANNON (150982)	
133	LDL INVESTMENTS LTD (185113)	
134	TIERRA CONSERVATION LLC (143315)	
135	MCCULLOCH-FAJEN LLC (204282)	
136	MCCULLOCH-FAJEN LLC (204282)	
137	SONGER LORING (122776)	
138	KEMP DONNA J B (124737)	

PARCEL OWNER INFORMATION TABLE


DETAIL "D"
SOUTHBOUND RIGHT TURN LANES
(STA 147+35 TO STA 150+00)
DETAIL "A"
FM 663 RETAINING WALL
(STA. 105+42 TO STA. 108+35) LT.
(STA. 117+13 TO STA. 118+50) LT.
UTILITY COR.
C223 RAIL
PROP. RETAINING WALL
3:1 MAX.
SUP
SH
LANE
TURN LANE
SHARED USED PATH
4:1 MAX.
℄ BELMONT DR
ROW - 90'
MEDIAN
VARIES
PROP. ROW
EXIST. ROW
MONOLITHIC CURB (TYP)
PGL
TYPICAL SECTION
+22.17 TO STA. 12+50 EAST)
DETAIL "B"
FM 663 RETAINING WALL
(STA. 115+18 TO STA. 116+50) RT.
(STA. 122+25 TO STA. 129+50) RT.
SW
UTILITY COR.
EXISTING GROUND
SEE DETAIL "E"
EXISTING GROUND
PROP CURB WALL
DETAIL "F"
FM 663 CURB WALL
(STA. 117+15 TO STA. 118+50) LT
(STA. 124+26 TO STA 125+38) LT
(STA. 126+18 TO STA 131+66) LT
(STA. 132+46 TO STA 135+10) LT
(STA. 135+60 TO STA 136+50) LT
STA. 147+50)


BELMONT DR
500
800
1,100
300
400
500
14,300
19,200
20,900
500
700
900
15,100
20,300
22,300
FM 663
14,500
19,800
21,600
100
200
300
100
200
300
500
700
800
BELMONT DR
700
1,100
1,400

SCHEMATIC GENERAL NOTES

EXISTING ROW FOR FM 663 IS APPARENT ROW PROVIDED BY ELLIS COUNTY APPRAISAL DIST, NOT PER DEED RESEARCH.

AERIAL FLIGHT AND TOPOGRAPHICAL DATE - MARCH 2024.

TRAFFIC APPROVED BY TXDOT DALLAS DISTRICT AND REVIEWED BY TP&P ON 06-21-2024.

ALL CURBS ARE TYPE II (UNLESS NOTED OTHERWISE)

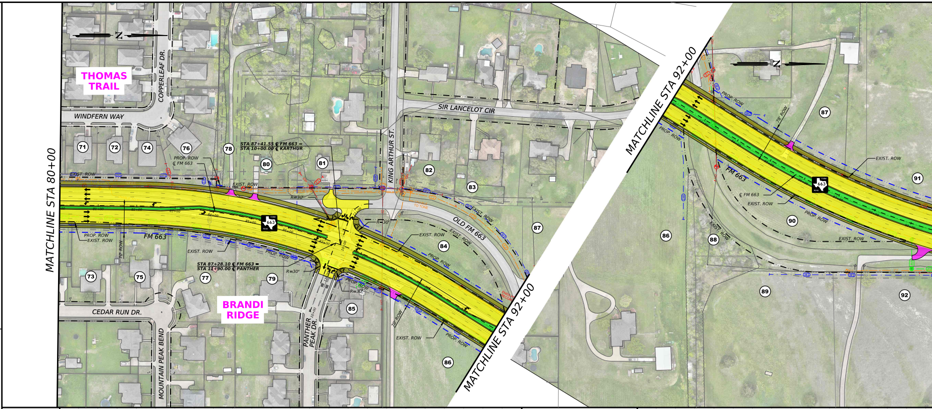
CONVENTIONAL ROADWAY SIGNAGES (SMALL SIGNS) ARE NOT SHOWN AND WILL BE DEVELOPED DURING THE PS&E PHASE OF THE PROJECT.

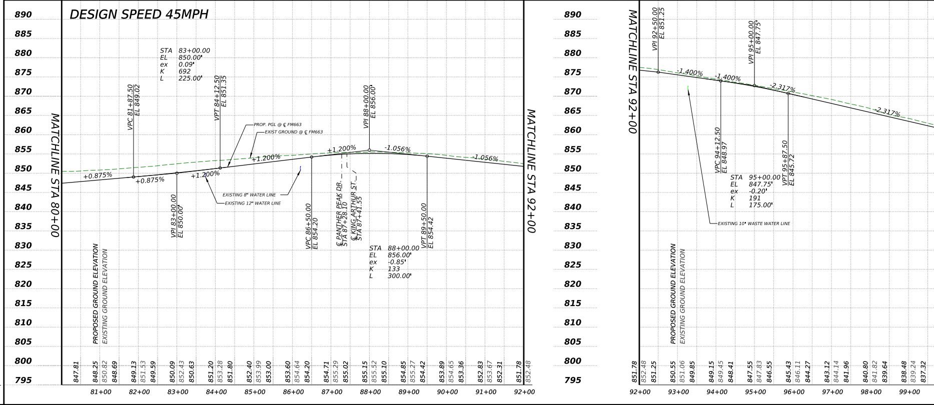
OWNERSHIP INFORMATION SHOWN ON SCHEMATIC OBTAINED FROM ELLIS COUNTY APPRAISAL DISTRICT.

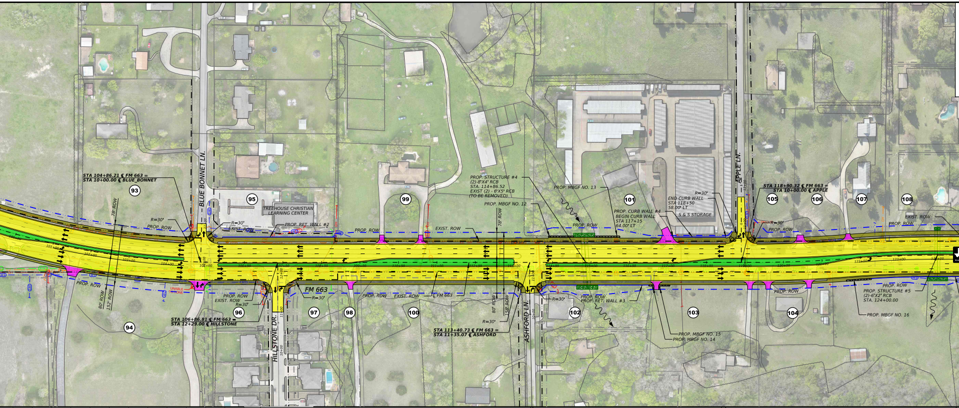
THE NATIONAL FLOOD HAZARD LAYER (NFHL) WAS CHECKED AND ALL THE CROSSINGS WERE FOUND TO BE FEMA ZONE X. THE NFHL DATA INCORPORATES ALL FLOOD INSURANCE RATE MAP(FIRM) DATABASES PUBLISHED BY THE FEMA, AND ANY LETTERS OF MAP REVISION (LOMR) THAT HAVE BEEN ISSUED AGAINST THOSE DATABASES SINCE THEIR PUBLICATION DATE. IT IS UPDATED ON A MONTHLY BASIS. THE FIRM DATABASE IS THE DIGITAL, GEOSPATIAL VERSION OF THE FLOODHAZARD INFORMATION SHOWN ON THE PUBLISHED PAPER FIRMS.

PROVIDE MEDIAN OPENINGS AT CROSS-STREETS INTERSECTIONS. DETERMINE REMAINING MEDIAN CUTS, PREFERABLY VIA CITY COUNCIL ACTION. FINAL LOCATION OF MEDIAN OPENINGS WILL BE DETERMINED IN THE PS&E DEVELOPMENT PHASE IN COORDINATION WITH THE LOCAL GOVERNMENTS.

DESIGN IS SUBJECT TO CHANGE.


N
THOMAS TRAIL
COPPERLEAF DR.
WINDFERN WAY
SIR LANCELOT CIR
KING ARTHUR ST.
MATCHLINE STA 80+00
MATCHLINE STA 92+00
MATCHLINE STA 92+00
71
72
74
76
78
80
81
82
83
87
91
PROP. ROW
℄ FM 663
STA 87+41.55 ℄ FM 663 =
STA 10+00.00 ℄ KARTHUR
EXIST. ROW
R=30'
FM 663
EXIST. ROW
PROP. ROW
OLD FM 663
84
EXIST. ROW
PROP. ROW
STA 87+28.10 ℄ FM 663 =
STA 11+90.00 ℄ PANTHER
73
75
77
79
85
86
R=30'
BRANDI RIDGE
CEDAR RUN DR.
MOUNTAIN PEAK BEND
PANTHER PEAK DR.
EXIST. ROW
PROP. ROW
86
88
89
90
92
FM 663
℄ FM 663
EXIST. ROW
PROP. ROW
EXIST. ROW
TO TOWE

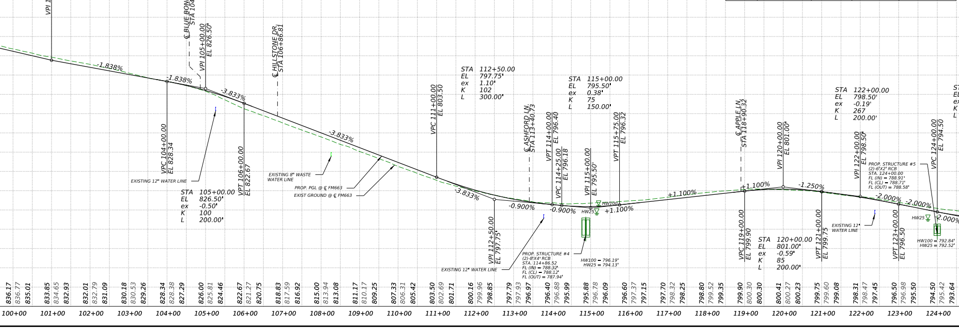


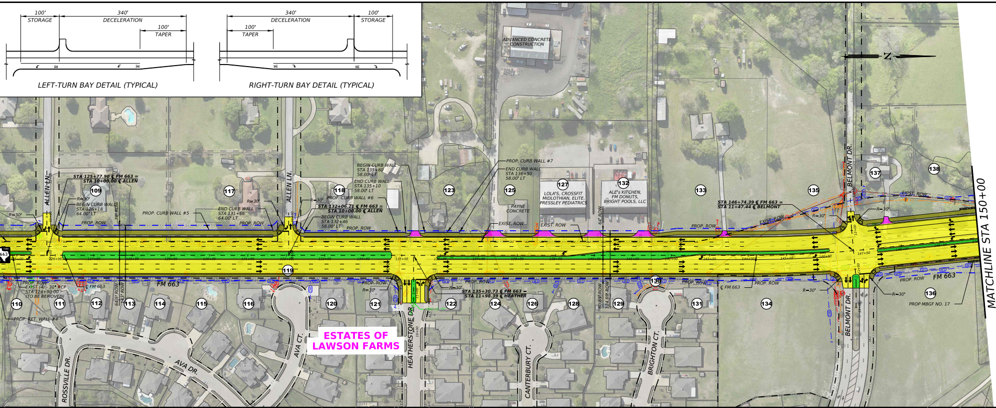

STA 104+86.21 ℄ FM 663 =
STA 10+00.00 ℄ BLUE_BONNET
BLUE BONNET LN.
93
94
95
96
97
98
99
100
101
102
103
104
105
106
107
108
TREEHOUSE CHRISTIAN LEARNING CENTER
R=30'
PROP. ROW
EXIST. ROW
PROP. RET. WALL #2
78' ROW
80' ROW
152' ROW
158' ROW
UNABLE TO TONE
STA 106+86.81 ℄ FM 663 =
STA 12+29.00 ℄ HILLSTONE
HILLSTONE DR.
FM 663
℄ FM 663
PROP. STRUCTURE #4
(2)-8'X4' RCB
STA. 114+86.52
EXIST (2) - 6'X5' RCB
(TO BE REMOVED)
PROP. MBGF NO. 12
PROP. MBGF NO. 13
PROP. CURB WALL #4
BEGIN CURB WALL
STA 117+15
64.00' LT
STA 113+40.73 ℄ FM 663 =
STA 11+35.07 ℄ ASHFORD
ASHFORD LN.
PROP. RET. WALL #3
END CURB WALL
STA 118+50
58.00' LT
S & S STORAGE
APPLE LN.
STA 118+90.32 ℄ FM 663 =
STA 10+00.00 ℄ APPLE
PROP. MBGF NO. 14
PROP. MBGF NO. 15
PROP. MBGF NO. 16
PROP. STRUCTURE #5
(2)-6'X2' RCB
STA. 124+00.00
101+00
102+00
103+00
104+00
105+00
106+00
107+00
108+00
109+00
110+00
111+00
112+00
113+00
114+00
115+00
116+00
117+00
118+00
119+00
120+00
121+00
122+00
123+00
124+00

CURVE DATA							
CURVE NO.	P.I. STA.	DELTA	T	L	R	P.C. STA.	P.T. STA.
FM 663 CURVE 7	86+27.42	31°14'48.00" (RT)	419.47'	818.04'	1500.00'	82+07.96	90+25.99
FM 663 CURVE 8	99+99.83	31°57'49.00" (LT)	572.80'	1115.74'	2000.00'	94+27.03	105+42.77
FM 663 CURVE 9	120+46.50	04°33'39.35" (LT)	119.47'	238.81'	3000.00'	119+27.03	121+65.84
FM 663 CURVE 10	122+85.32	04°33'41.34" (RT)	119.48'	238.84'	3000.00'	121+65.84	124+04.68
FM 663 CURVE 11	145+60.10	05°58'09.99" (LT)	156.42'	312.56'	3000.00'	144+03.68	147+16.24

SUPERELEVATION TABLE			
NB STATION	SUPERELEVATION e%	SB STATION	SUPERELEVATION e%
141+00	-2.00%	90+00	2.00%
144+00	2.00%	93+00	-2.00%
147+50	2.00%	115+50	-2.00%
150+50	-2.00%	118+50	2.00%
		133+00	2.00%
		136+00	-2.00%
		147+50	-2.00%
		150+50	2.00%

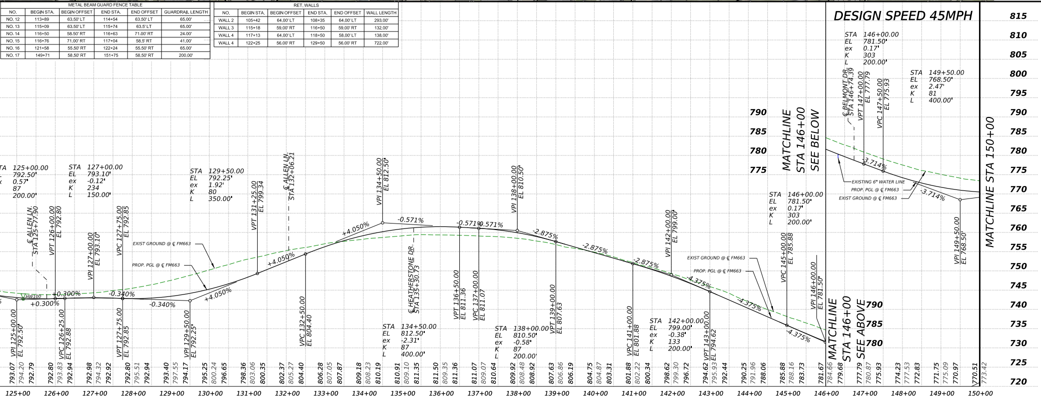
TURN LANE DETAILS				
DIRECTION	INTERSECTION	TAPER LENGTH	STORAGE + DECEL	MEDIAN NOSE RADIUS
NB	PANTHER PEAK DR.	100'	440.00'	3.00'
SB	PANTHER PEAK DR.	100'	440.00'	3.00'
NB	BLUE BONNET LN.	100'	440.00'	3.00'
SB	BLUE BONNET LN.	100'	440.00'	3.00'
SB	ASHFORD LN.	100'	440.00'	3.00'
NB	ALLEN LN.	100'	440.00'	3.00'
SB	HEATHERSTONE DR.	100'	440.00'	3.00'
NB	BELMONT DR.	100'	440.00'	3.00'
SB	BELMONT DR.	100'	440.00'	3.00'


VPI 101+00.00
EL 833.85
-1.838%
-1.838%
℄ BLUE BONNET LN.
STA 104+86.21
VPI 105+00.00
EL 826.50'
VPC 104+00.00
EL 828.34
-3.833%
VPT 106+00.00
EL 822.67
℄ HILLSTONE DR.
STA 106+86.81
EXISTING 12" WATER LINE
STA 105+00.00
EL 826.50'
ex -0.50'
K 100
L 200.00'
-3.833%
EXISTING 8" WASTE WATER LINE
PROP. PGL @ ℄ FM663
EXIST GROUND @ ℄ FM663
VPC 111+00.00
EL 803.50
-3.833%
STA 112+50.00
EL 797.75'
ex 1.10'
K 102
L 300.00'
VPI 112+50.00
EL 797.75'
EXISTING 12" WATER LINE
-0.900%
℄ ASHFORD LN.
STA 113+40.73
VPT 114+00.00
EL 796.40
VPC 114+25.00
EL 796.18
-0.900%
PROP. STRUCTURE #4
(2)-8'X4' RCB
STA. 114+86.52
FL (IN) = 788.32'
FL (CL) = 788.12'
FL (OUT) = 787.94'
STA 115+00.00
EL 795.50'
ex 0.38'
K 75
L 150.00'
VPI 115+00.00
EL 795.50'
HW100
HW25
HW100 = 796.19'
HW25 = 794.13'
+1.100%
VPT 115+75.00
EL 796.32
+1.100%
℄ APPLE LN.
STA 118+90.32
+1.100%
VPC 119+00.00
EL 799.90
VPI 120+00.00
EL 801.00'
STA 120+00.00
EL 801.00'
ex -0.59'
K 85
L 200.00'
-1.250%
VPT 121+00.00
EL 799.75
STA 122+00.00
EL 798.50'
ex -0.19'
K 267
L 200.00'
VPI 122+00.00
EL 798.50'
EXISTING 12" WATER LINE
-2.000%
-2.000%
VPT 123+00.00
EL 796.50
PROP. STRUCTURE #5
(2)-6'X2' RCB
STA. 124+00.00
FL (IN) = 788.91'
FL (CL) = 788.71'
FL (OUT) = 788.58'
VPC 124+00.00
EL 794.50
-2.000%
HW25
HW100 = 792.84'
HW25 = 792.52'
836.17 836.77 835.01
833.85 834.65 832.93
832.01 832.79 831.09
830.18 830.53 829.26
828.34 828.38 827.29
826.00 825.81 824.46
822.67 821.27 820.75
818.83 817.59 816.92
815.00 813.94 813.08
811.17 810.17 809.25
807.33 806.31 805.42
803.50 802.69 801.71
800.16 799.96 798.85
797.79 797.93 796.97
796.40 796.88 795.99
795.88 796.78 796.09
796.60 797.37 797.15
797.70 798.32 798.25
798.80 799.52 799.35
799.90 800.30 800.30
800.41 800.27 800.23
799.75 799.60 799.08
798.31 798.47 797.45
796.50 796.98 795.50
794.50 795.42 793.64
100+00
101+00
102+00
103+00
104+00
105+00
106+00
107+00
108+00
109+00
110+00
111+00
112+00
113+00
114+00
115+00
116+00
117+00
118+00
119+00
120+00
121+00
122+00
123+00
124+00


100'
STORAGE
340'
DECELERATION
100'
TAPER
LEFT-TURN BAY DETAIL (TYPICAL)
340'
DECELERATION
100'
STORAGE
100'
TAPER
RIGHT-TURN BAY DETAIL (TYPICAL)
N
ADVANCED CONCRETE CONSTRUCTION
ALLEN LN.
STA 125+77.90 ℄ FM 663 =
STA 10+00.00 ℄ ALLEN
R=30'
BEGIN CURB WALL
STA 126+18
64.00' LT
78' ROW
PROP. CURB WALL #5
END CURB WALL
STA 131+66
64.00' LT
PROP. ROW
ALLEN LN.
PROP. CURB WALL #6
STA 132+06.21 ℄ FM 663 =
STA 10+00.00 ℄ ALLEN
BEGIN CURB WALL
STA 132+46
58.00' LT
BEGIN CURB WALL
STA 135+60
58.00' LT
END CURB WALL
STA 135+10
58.00' LT
PROP. CURB WALL #7
END CURB WALL
STA 136+50
58.00' LT
EXIST. ROW
PAYNE CONCRETE
LOLA'S, CROSSFIT MIDLOTHIAN, ELITE, PRESSLEY PEDIATRICS
ALE's KITCHEN, FM DONUTS, BRIGHT POOLS, LLC
64' ROW
STA 146+74.39 ℄ FM 663 =
STA 11+47.44 ℄ BELMONT
BELMONT DR.
EXIST. ROW
109
117
118
123
125
127
132
133
135
137
138
119
110
111
112
113
114
115
116
120
121
122
124
126
128
129
130
131
134
136
663
PROP. ROW
EXIST (4) - 30" RCP
STA 124+90.00
(TO BE REMOVED)
℄ FM 663
FM 663
64.9' ROW
143' ROW
PROP. RET. WALL #4
ROSSVILLE DR.
AVA DR.
AVA CT.
ESTATES OF
LAWSON FARMS
HEATHERSTONE DR.
STA 135+30.73 ℄ FM 663 =
STA 11+98.39 ℄ HEATHER
CANTERBURY CT.
60.69' ROW
124.69' ROW
BRIGHTON CT.
℄ FM 663
R=30'
BELMONT DR.
FM 663
PROP MBGF NO. 17
MATCHLINE STA 150+00
125+00
126+00
127+00
128+00
129+00
130+00
131+00
132+00
133+00
134+00
135+00
136+00
137+00
138+00
139+00
140+00
141+00
142+00
143+00
144+00
145+00
146+00
147+00
148+00
149+00
12+00
11+00
10+00

METAL BEAM GUARD FENCE TABLE					
NO.	BEGIN STA.	BEGIN OFFSET	END STA.	END OFFSET	GUARDRAIL LENGTH
NO. 12	113+89	63.50' LT	114+54	63.50' LT	65.00'
NO. 13	115+09	63.50' LT	115+74	63.5' LT	65.00'
NO. 14	116+50	58.50' RT	116+63	71.00' RT	24.00'
NO. 15	116+76	71.00' RT	117+04	58.5' RT	41.00'
NO. 16	121+58	55.50' RT	122+24	55.50' RT	65.00'
NO. 17	149+71	58.50' RT	151+75	58.50' RT	200.00'

RET. WALLS					
NO.	BEGIN STA.	BEGIN OFFSET	END STA.	END OFFSET	WALL LENGTH
WALL 2	105+42	64.00' LT	108+35	64.00' LT	293.00'
WALL 3	115+18	59.00' RT	116+50	59.00' RT	132.00'
WALL 4	117+13	64.00' LT	118+50	58.00' LT	138.00'
WALL 4	122+25	56.00' RT	129+50	56.00' RT	722.00'


DESIGN SPEED 45MPH
STA 146+00.00
EL 781.50'
ex 0.17'
K 303
L 200.00'
STA 149+50.00
EL 768.50'
ex 2.47'
K 81
L 400.00'
℄ BELMONT DR.
STA 146+74.39
VPT 147+00.00
EL 777.79
VPC 147+50.00
EL 775.93
-3.714%
-3.714%
EXISTING 6" WATER LINE
PROP. PGL @ ℄ FM663
EXIST GROUND @ ℄ FM663
VPI 149+50.00
EL 768.50'
MATCHLINE STA 150+00
MATCHLINE
STA 146+00
SEE BELOW
STA 125+00.00
EL 792.50'
ex 0.57'
K 87
L 200.00'
STA 127+00.00
EL 793.10'
ex -0.12'
K 234
L 150.00'
STA 129+50.00
EL 792.25'
ex 1.92'
K 80
L 350.00'
℄ ALLEN LN.
STA 125+77.90
VPT 126+00.00
EL 792.80
VPI 127+00.00
EL 793.10'
VPC 127+75.00
EL 792.85
EXIST GROUND @ ℄ FM663
PROP. PGL @ ℄ FM663
VPT 131+25.00
EL 799.34
℄ ALLEN LN.
STA 132+06.21
VPI 134+50.00
EL 812.50'
VPI 138+00.00
EL 810.50'
+4.050%
+4.050%
+4.050%
-0.571%
-0.571%
-0.571%
-2.875%
-2.875%
-2.875%
-4.375%
-4.375%
-4.375%
+0.300%
+0.300%
-0.340%
-0.340%
HW100
VPI 142+00.00
EL 799.00'
VPC 145+00.00
EL 785.88
VPI 146+00.00
EL 781.50'
STA 146+00.00
EL 781.50'
ex 0.17'
K 303
L 200.00'
EXIST GROUND @ ℄ FM663
PROP. PGL @ ℄ FM663
℄ HEATHERSTONE DR.
STA 135+30.73
VPT 136+50.00
EL 811.36
VPC 137+00.00
EL 811.07
VPT 139+00.00
EL 807.63
VPC 141+00.00
EL 801.88
VPT 143+00.00
EL 794.62
STA 134+50.00
EL 812.50'
ex -2.31'
K 87
L 400.00'
STA 138+00.00
EL 810.50'
ex -0.58'
K 87
L 200.00'
STA 142+00.00
EL 799.00'
ex -0.38'
K 133
L 200.00'
VPI 125+00.00
EL 792.50'
VPC 126+25.00
EL 792.88
VPT 127+75.00
EL 792.85
VPI 129+50.00
EL 792.25'
VPC 132+50.00
EL 804.40
MATCHLINE
STA 146+00
SEE ABOVE
815
810
805
800
795
790
785
780
775
770
765
760
755
750
745
740
735
730
725
720
790
785
780
775
790
785
780
793.07 794.20 792.79
792.80 793.83 792.94
792.98 794.32 792.92
792.80 795.51 792.94
793.40 797.55 794.17
795.25 800.24 796.65
798.36 803.06 800.35
802.37 805.27 804.40
806.28 807.05 807.87
809.18 808.23 810.19
810.91 809.10 811.35
811.50 809.35 811.36
811.07 809.07 810.64
809.92 808.48 808.92
807.63 806.86 806.19
804.75 804.87 803.31
801.88 802.22 800.34
798.62 799.30 796.72
794.62 795.93 792.44
790.25 791.96 788.06
785.88 788.16 783.73
781.67 784.66 779.68
777.79 780.87 775.93
774.23 777.53 772.83
771.75 775.09 770.97
770.51 773.42
125+00
126+00
127+00
128+00
129+00
130+00
131+00
132+00
133+00
134+00
135+00
136+00
137+00
138+00
139+00
140+00
141+00
142+00
143+00
144+00
145+00
146+00
147+00
148+00
149+00
150+00

Texas Department of Transportation

© 2024 BY TEXAS DEPARTMENT OF TRANSPORTATION, ALL RIGHTS RESERVED

DALLAS DISTRICT
CEASON CLEMENS, P.E., DISTRICT ENGINEER

FM 663
60% DESIGN SCHEMATIC

ELLIS COUNTY, TEXAS
FM 663 FROM FM 875 TO US 287
CSJ: 0815-08-040
LENGTH: 3.48 MILES
DATED: APRIL 2025

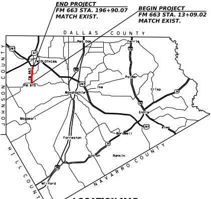
ROADWAY	DESIGN SPEED	FUNCTIONAL CLASSIFICATION
FM 663	45 MPH	MINOR ARTERIAL
FM 875	45 MPH	MAJOR COLLECTOR
US 287 EB FR	40 MPH	PRINCIPAL ARTERIAL
LOCAL STREETS	30 MPH	LOCAL

TXDOT RDM (2024) CHAPTER 4 BASIC DESIGN CRITERIA
(LEVEL TERRAIN)

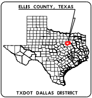
INDEX OF SHEETS

ROLL 1 OF 4 PLAN AND PROFILE VIEW STA 13+09.02 TO STA 80+00
ROLL 2 OF 4 PLAN AND PROFILE VIEW STA 80+00 TO STA 150+00
ROLL 3 OF 4 PLAN AND PROFILE VIEW STA 150+00 TO STA 196+90.07
ROLL 4 OF 4 SUPPLEMENTAL SIDE STREET PROFILES

ROLL 2 OF 4


END PROJECT
FM 663 STA. 196+90.07
MATCH EXIST.
BEGIN PROJECT
FM 663 STA. 13+09.02
MATCH EXIST.
DALLAS COUNTY
JOHNSON COUNTY
HILL COUNTY
NAVARRO COUNTY
287
67
MIDLOTHIAN
FM 663
FM 875
Red Oak
Ferris
45
35E
287
Ike
Palmer
Crisp
34
Waxahachie
Ennis
Maypearl
287
Alma
Bardwell
Forreston
34
Avalon
Rankin
35E
Milford

LOCATION MAP
N.T.S.


ELLIS COUNTY, TEXAS
TXDOT DALLAS DISTRICT

TEXAS COUNTY MAP
N.T.S.

LEGEND

— · · —	EXISTING RIGHT OF WAY LINE	🟨	PROPOSED CONCRETE PAVEMENT
— · · —	PROPOSED RIGHT OF WAY LINE	🟪	PROPOSED DRIVEWAY
— · · —	EXISTING LANDSCAPE EASEMENT BY OTHERS	🟫	PROPOSED SIDEWALK/SHARED USE PATH
— · — · —	CENTERLINE	🟧	ADJACENT PROJECT - BY OTHERS
——	PARCEL LINE	🟩	PROPOSED RAISED MEDIAN
— — — —	CITY/COUNTY BOUNDARY LINE	←	PROPOSED LANES
▤	PROPOSED DRAINAGE STRUCTURE	#	PARCEL IDENTIFYING NUMBER
◄∿	DIRECTION OF FLOW	——	PROPOSED RETAINING WALL
— G —	EXISTING GAS LINE	═══	CURB WALL
- - - C - - -	EXISTING TELEPHONE/CABLE/FIBER LINE	═══	METAL BEAM GUARD FENCE (MBGF)
— E —	EXISTING ELECTRIC LINE	▨	POTENTIAL DISPLACEMENT
- · -PL- · -	EXISTING PETROLEUM LINE	▩	PROPOSED RIP RAP
— WW —	EXISTING SANITARY SEWER LINE	●	EXISTING TRAFFIC SIGNAL
- - SD - -	EXISTING STORM DRAIN LINE		
- · W- ·	EXISTING WATER LINE		
— OH —	EXISTING OH ELECTRIC LINE		
—x—	LEVEL B - SUE		
—☒—	LEVEL C - SUE		
—(x)—	LEVEL D - SUE		

PRELIMINARY
FOR INTERIM REVIEW ONLY

THESE DOCUMENTS ARE FOR INTERIM REVIEW AND REGULATORY APPROVAL. THEY ARE NOT INTENDED FOR PERMITTING,BIDDING OR CONSTRUCTION PURPOSES. THEY WERE PREPARED BY OR UNDER THE SUPERVISION OF:

NAME	P.E. NO.	DATE
RANDY L GROS, PE	134559	4/28/2025

SCALE:
1" = 100' HORIZONTAL
1" = 10' VERTICAL

GARVER
3000 INTERNET BLVD.
SUITE 400
FRISCO, TX 75034

FIRM REGISTRATION NO. 5713