Texas Department of Transportation

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

DESIGN SCHEMATIC
FM 6
COLLIN COUNTY

CSJ: 0918-45-027
FROM: SH 78
TO: EAST OF FM 1777
NET LENGTH OF PROJECT = 7.88 MI
ROADWAY = 7.83 MI
BRIDGE = 0.05 MI

DESIGN CRITERIA:

FUNCTIONAL CLASSIFICATION: URBAN MAJOR COLLECTOR
DESIGN SPEED: 40 MPH
SCHOOL ZONES: 4 (EA) – URBAN STREET
DESIGN SPEED (CROSS ST): VARIES 30 MPH TO 55 MPH

ADT (2023) = 12,000
ADT (2043) = 19,000
ADT (2063) = 19,000

LOCATION MAP

N.T.S.

100% GEOMETRIC SCHEMATIC

This document is not intended for recording purposes. It is released for the purpose of interim review only under the authority of Wade Allen Wallace, P.E. on 08/29/2023. It is not to be used for bidding or construction purposes.

ROLL INDEX:

ROLL 1 FM 6 WIDENING
STA: 648+00 TO STA: 713+00

ROLL 2 FM 6 WIDENING
STA: 713+00 TO STA: 829+00

ROLL 3 FM 6 WIDENING
STA: 829+00 TO STA: 894+00

ROLL 4 FM 6 WIDENING
STA: 894+00 TO STA: 957+34

HORIZONTAL SCALE
1" = 50'-0"

VERTICAL SCALE
1" = 10'-0"

ROLL 1 OF 4

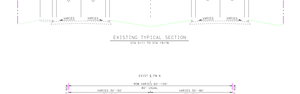
Structures & Facilities Operations Engineering Section - Waxahachie
1319 Ray Hubbard Drive, Waxahachie, TX 75165
Phone: 214-320-6100
TBPE Registration No. F-10870

COUNTY: COLLIN
DATE: MAY 2023

GEOMETRIC SCHEMATIC - FM 6
COLLIN COUNTY

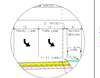
ROLL 1 OF 4

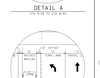
Texas Department of Transportation
Structures & Facilities Operations Engineering Section - Waxahachie
1319 Ray Hubbard Drive, Waxahachie, TX 75165
Phone: 214-320-6100
TBPE Registration No. F-10870

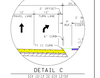


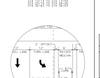
PROP TYP SECTION
140' PROPOSED ROW (MIN)

PROP TYP SECTION
140' PROPOSED ROW (MIN)









PLAN LEGEND:

- PROPOSED R.
- PROPOSED R.O.W.
- PROPOSED PERMANENT EASEMENT
- EXISTING R.O.W.
- PROPOSED PEDESTRIAN RAIL
- PROPOSED CURB & GUTTER
- 100 YR FLOODPLAIN LIMITS
- 500 YR FLOODPLAIN LIMITS
- FLOODWAY
- COUNTY LINE
- PROPOSED DRAINAGE
- EXISTING DRAINAGE
- PROPOSED DIRECTION OF TRAVEL
- EXISTING DIRECTION OF TRAVEL
- PROPOSED ROADWAY
- PROPOSED ROADWAY
- PROPOSED DRIVEWAY
- EXISTING DRIVEWAY
- PROPOSED MEDIAN
- CEMETERY
- EXISTING RAIL
- POTENTIAL REPLACEMENT
- SIDEWALK REMOVAL
- SIDEWALK
- CURVE ID.
- PARCEL ID.

PLAN LEGEND:

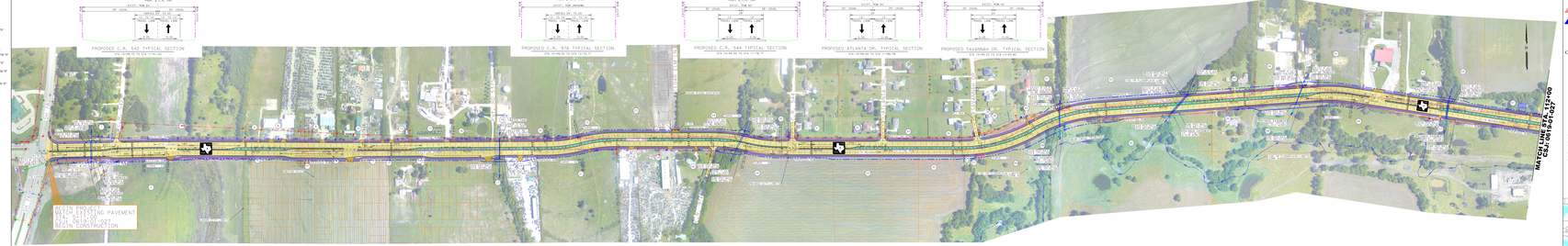
- COMMUNICATIONS ID. "B"
- COMMUNICATIONS ID. "C/G/ T/O"
- GAS LINE ID. "G"
- POWER LINE ID. "E/ T/O"
- SAN LINE ID. "S"
- STORM LINE ID. "D/ T/O"
- WATER MAIN LINE ID. "W"
- SANITARY SEWER LINE ID. "S/ T/O"
- TELEPHONE LINE ID. "T"
- STORM DRAIN LINE ID. "D/ T/O"
- POTABLE WATER LINE ID. "W"
- TRAFFIC SIGNAL LINE ID. "T/"
- ABANDONED WATER LINE
- TRAFFIC SIGNAL LINE ID. "T"
- UNDERGROUND ELECTRIC LINE ID. "T/ T/U/ W"
- OVERHEAD UTILITY LINE
- TELEPHONE
- PLUMBUM

GENERAL NOTES:

1. EXISTING FEATURES WERE NOT FIELD SURVEYED. GEOMETRICS ARE BASED ON AERIAL SURVEYS DATED 03-20-2020 AND RECTIFIED PLANS.
2. TRAIL LOCATION OF MISSING STRINGING WILL BE DETERMINED IN THE FINAL DESIGN PHASE. TRAIL LOCATION SHOWN IS FOR PLANNING PURPOSES ONLY.
3. SUPERELEVATION AIDS OF 1FOOT/SLOPE IS ABOUT THE PVI.
4. DIMENSIONS ARE TO THE EDGE OF PAVEMENT OR MARKING, PACE OF CURB, RAIL, BARRIER, OR WALL UNLESS NOTED OTHERWISE.
5. APPROXIMATE 100 YEAR FLOODPLAIN LIMITS ARE BASED UPON FEMA FLOOD INSURANCE RATE MAP NUMBER 48085C0430J, EFFECTIVE 06-02-2009.
6. DRAINAGE INFORMATION SHOWN ON EXISTING DITCHES FROM COLLIN COUNTY APPRAISAL DISTRICT. (LATEST DATA AVAILABLE AS OF SEPTEMBER 2022)
7. EXISTING CULVERT LOCATIONS, SIZE AND ELEVATIONS OBTAINED FROM AERIAL SURVEYS AND FIELD INSPECTIONS. (PRELIMINARY, FOR PLANNING PURPOSES ONLY)
8. ADA RAMPS AND CROSSWALKS ARE ENCROACHED IN ONLY ONE (1) RETAINING SCREEN PAGE. SIDEWALKS ARE SHOWN IN TYPICAL SECTIONS.
9. ALL PROPOSED SIGNALIZED INTERSECTIONS SHALL BE DESIGNED IN ACCORDANCE WITH TXDOT'S LATEST TRAFFIC SIGNAL ARRANGEMENT PLOT FOR DRIVEWAY & ALLEY SIGNAL AND/OR ELIGIBILITY WITH MUTCD WARRANTS.
10. CONVENTIONAL ROADWAY SIGNAGE (SMALL SIGNS) ARE NOT SHOWN AND WILL BE DEVELOPED DURING THE FINAL PHASE OF THE PROJECT.
11. EXISTING ROADWAY BRIDGES & CULVERTS WITHIN LIMITS OF PROPOSED CONSTRUCTION TO BE EXTENDED AS NECESSARY TO MATCH PROPOSED SLOPES.
12. TYPICAL SECTIONS SHOWN ARE FOR PLANNING PURPOSES ONLY. SEE PLANS SHEET FOR CROSS STREETS UNLESS NOTED OTHERWISE.
13. CURB AND TYPE OF CURB AS NOTED OTHERWISE.

CURVE DATA TABLE:

CURVE ID.	CURVE ID.
(1) PC = STA 654+00.00 PI = STA 655+00.00 PT = STA 656+00.00 LENGTH = 100.00 DELTA = 90° 00' 00" (RT) DEGREE = 57° 18' 00" RADIUS = 100.00 TANGENT = 100.00 EXTERNAL = 41.42 MIDDLE ORD = 29.29	(2) PC = STA 656+00.00 PI = STA 657+00.00 PT = STA 658+00.00 LENGTH = 100.00 DELTA = 90° 00' 00" (RT) DEGREE = 57° 18' 00" RADIUS = 100.00 TANGENT = 100.00 EXTERNAL = 41.42 MIDDLE ORD = 29.29
(3) PC = STA 658+00.00 PI = STA 659+00.00 PT = STA 660+00.00 LENGTH = 100.00 DELTA = 90° 00' 00" (RT) DEGREE = 57° 18' 00" RADIUS = 100.00 TANGENT = 100.00 EXTERNAL = 41.42 MIDDLE ORD = 29.29	(4) PC = STA 660+00.00 PI = STA 661+00.00 PT = STA 662+00.00 LENGTH = 100.00 DELTA = 90° 00' 00" (RT) DEGREE = 57° 18' 00" RADIUS = 100.00 TANGENT = 100.00 EXTERNAL = 41.42 MIDDLE ORD = 29.29
(5) PC = STA 662+00.00 PI = STA 663+00.00 PT = STA 664+00.00 LENGTH = 100.00 DELTA = 90° 00' 00" (RT) DEGREE = 57° 18' 00" RADIUS = 100.00 TANGENT = 100.00 EXTERNAL = 41.42 MIDDLE ORD = 29.29	(6) PC = STA 664+00.00 PI = STA 665+00.00 PT = STA 666+00.00 LENGTH = 100.00 DELTA = 90° 00' 00" (RT) DEGREE = 57° 18' 00" RADIUS = 100.00 TANGENT = 100.00 EXTERNAL = 41.42 MIDDLE ORD = 29.29
(7) PC = STA 666+00.00 PI = STA 667+00.00 PT = STA 668+00.00 LENGTH = 100.00 DELTA = 90° 00' 00" (RT) DEGREE = 57° 18' 00" RADIUS = 100.00 TANGENT = 100.00 EXTERNAL = 41.42 MIDDLE ORD = 29.29	(8) PC = STA 668+00.00 PI = STA 669+00.00 PT = STA 670+00.00 LENGTH = 100.00 DELTA = 90° 00' 00" (RT) DEGREE = 57° 18' 00" RADIUS = 100.00 TANGENT = 100.00 EXTERNAL = 41.42 MIDDLE ORD = 29.29
(9) PC = STA 670+00.00 PI = STA 671+00.00 PT = STA 672+00.00 LENGTH = 100.00 DELTA = 90° 00' 00" (RT) DEGREE = 57° 18' 00" RADIUS = 100.00 TANGENT = 100.00 EXTERNAL = 41.42 MIDDLE ORD = 29.29	


PROP. E.L.A. 142
EXIST. R.O.W.
PROPOSED C.R. 542 TYPICAL SECTION
STA 713+00 TO STA 713+00
PROP. E.L.A. 576
EXIST. R.O.W.
PROPOSED C.R. 976 TYPICAL SECTION
STA 713+00 TO STA 713+00
PROP. E.L.A. 544
EXIST. R.O.W.
PROPOSED C.R. 544 TYPICAL SECTION
STA 713+00 TO STA 713+00
PROP. E.L.A. ATLANTA DR.
EXIST. R.O.W.
PROPOSED ATLANTA DR. TYPICAL SECTION
STA 713+00 TO STA 713+00
PROP. E.L.A. SAVANNAH DR.
EXIST. R.O.W.
PROPOSED SAVANNAH DR. TYPICAL SECTION
STA 713+00 TO STA 713+00
MATCH LINE STA. 712+00
COLLIN 0918-45-027
MATCH LINE STA. 829+00
COLLIN 0918-45-027
SH 78
FM 6
FM 1777
COLLIN COUNTY
MILLIGAN DR
ATLANTA DR
SAVANNAH DR
CR 544
CR 542
CR 976
CR 544
CR 542
CR 976
CR 544
CR 542
CR 976