TEXAS DEPARTMENT OF TRANSPORTATION

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

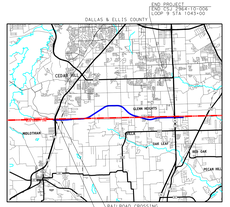
DESIGN SCHEMATIC
LOOP 9 SEGMENT A, ETC
DALLAS & ELLIS COUNTIES

CSJ # 2964-10-006: LOOP 9 FROM US67 TO IH35E
Project Length = 52,661.00 Feet = 9.97 Miles

DESIGN SPEEDS

DESIGN SPEEDS AND FUNCTIONAL CLASSIFICATIONS:

FRONTAGE ROADS (URBAN COLLECTOR):	50 MPH
CROSS STREETS:	40 MPH
U-TURNS (URBAN COLLECTOR):	20 MPH



SCHEMATIC PREPARED BY:
REGISTERED PROFESSIONAL ENGINEER
FOR INTERIM REVIEW ONLY, NOT FOR PERMITTING, BIDDING OR CONSTRUCTION
Prepared by or under the supervision of:
HOSSEIN M. HOSSEINI, P.E. STATE OF TEXAS
NAME 119868 P.E. NUMBER
COLTON A. ELLIS, P.E. STATE OF TEXAS
NAME 140968 P.E. NUMBER
12/5/2022
DATE

PRELIMINARY
SUBJECT TO CHANGE BASED ON FURTHER DEVELOPMENTS RESULTING FROM PUBLIC INPUT AND TECHNICAL REVIEW

HORIZONTAL SCALE: 0 250 500
VERTICAL SCALE: 0 5 10

ROLL 6 OF 12

BGE, Inc.
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TBPE Registration No. F-1046

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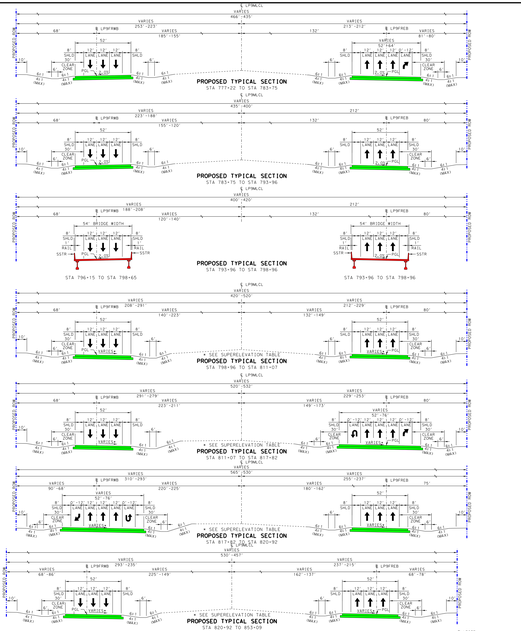
COUNTY: DALLAS/ELLIS
DATE: DECEMBER 2022

DESIGN SCHEMATIC - LOOP 9
DALLAS/ELLIS COUNTY

ROLL 6 OF 12



PARCEL ID	OWNER	PARCEL ID	OWNER	PARCEL ID	OWNER	PARCEL ID	OWNER
1	BEAR CREEK RANCH HOMEOWNERS ASSN	116	CABALLERO, JOSE & TERESA	228	TX ASSOCIATES LLC	340	TX ASSOCIATES LLC
2	MILLER, CLAYTON	117	HUBBARD, EDWARD E.	229	TX ASSOCIATES LLC	341	TX ASSOCIATES LLC
3	MILLER, CLAYTON	118	HUBBARD, EDWARD E.	230	TX ASSOCIATES LLC	342	TX ASSOCIATES LLC
4	BEAR CREEK RANCH, JON FRITZ	119	MTC MORNING LLC	231	TX ASSOCIATES LLC	343	TX ASSOCIATES LLC
5	MILLER, CLAYTON	120	MTC MORNING LLC	232	TX ASSOCIATES LLC	344	TX ASSOCIATES LLC
6	MILLER, CLAYTON	121	MTC MORNING LLC	233	TX ASSOCIATES LLC	345	TX ASSOCIATES LLC
7	BEAR CREEK RANCH	122	MTC MORNING LLC	234	TX ASSOCIATES LLC	346	TX ASSOCIATES LLC
8	MENDOZA, WILLIAM	123	VILLEGAS, MARTIN	235	TX ASSOCIATES LLC	347	TX ASSOCIATES LLC
9	MENDOZA, WILLIAM	124	VILLEGAS, MARTIN	236	TX ASSOCIATES LLC	348	TX ASSOCIATES LLC
10	BEAR CREEK RANCH	125	VILLEGAS, MARTIN	237	TX ASSOCIATES LLC	349	TX ASSOCIATES LLC
11	WILSON, ROBERT D. & ELOISEMA	126	BUCK, MARTY	238	TX ASSOCIATES LLC	350	TX ASSOCIATES LLC
12	WILSON, ROBERT D. & JEAN ANNE	127	BUCK, MARTY	239	TX ASSOCIATES LLC	351	TX ASSOCIATES LLC
13	WILSON, ROBERT D.	128	BUCK, MARTY	240	TX ASSOCIATES LLC	352	TX ASSOCIATES LLC
14	WILSON, ROBERT D.	129	BUCK, MARTY	241	TX ASSOCIATES LLC	353	TX ASSOCIATES LLC
15	VANNOY, DENNIS, ALLEN	214	TX ASSOCIATES LLC	242	TX ASSOCIATES LLC	354	TX ASSOCIATES LLC
16	BEAR CREEK RANCH	215	TX ASSOCIATES LLC	243	TX ASSOCIATES LLC	355	TX ASSOCIATES LLC
17	JAMES, RALPH	216	TX ASSOCIATES LLC	244	TX ASSOCIATES LLC	356	TX ASSOCIATES LLC
18	FLIPSTEAD, REMODELING & INVESTMENTS LLC	217	TX ASSOCIATES LLC	245	TX ASSOCIATES LLC	357	TX ASSOCIATES LLC
19	WILSON, ROBERT D.	218	TX ASSOCIATES LLC	246	TX ASSOCIATES LLC	358	TX ASSOCIATES LLC
20	WILSON, ROBERT D.	219	TX ASSOCIATES LLC	247	TX ASSOCIATES LLC	359	TX ASSOCIATES LLC
21	WILSON, ROBERT D.	220	TX ASSOCIATES LLC	248	TX ASSOCIATES LLC	360	TX ASSOCIATES LLC
22	WILSON, ROBERT D.	221	TX ASSOCIATES LLC	249	TX ASSOCIATES LLC	361	TX ASSOCIATES LLC
23	WILSON, ROBERT D.	222	TX ASSOCIATES LLC	250	TX ASSOCIATES LLC	362	TX ASSOCIATES LLC
24	WILSON, ROBERT D.	223	TX ASSOCIATES LLC	251	TX ASSOCIATES LLC	363	TX ASSOCIATES LLC
25	WILSON, ROBERT D.	224	TX ASSOCIATES LLC	252	TX ASSOCIATES LLC	364	TX ASSOCIATES LLC
26	WILSON, ROBERT D.	225	TX ASSOCIATES LLC	253	TX ASSOCIATES LLC	365	TX ASSOCIATES LLC
27	WILSON, ROBERT D.	226	TX ASSOCIATES LLC	254	TX ASSOCIATES LLC	366	TX ASSOCIATES LLC
28	WILSON, ROBERT D.	227	TX ASSOCIATES LLC	255	TX ASSOCIATES LLC	367	TX ASSOCIATES LLC

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PLAN LEGEND

PROPOSED E/B
PROPOSED ROW
EXISTING ROW
PROPOSED ROW (BY OTHERS)
CONTROL OF ACCESS
PROPERTY LINES
CITY LIMITS
100 YR FLOODPLAIN LIMITS
EXISTING PLANIMETRIC FEATURES
COUNTY LINE
PROPOSED EDGE OF PAVEMENT
PROPOSED TRAFFIC BARRIER
PROPOSED RETAINING WALL
PROPOSED BRIDGE BENT
PROPOSED CULVERT
OVERHEAD ELECTRIC
UNDERGROUND ELECTRIC
TELEPHONE
CABLE TV
FIBER OPTIC
GAS
WATER
WASTEWATER
STORMWATER
PROPOSED DIRECTION OF TRAVEL
EXISTING DIRECTION OF TRAVEL
PROPOSED BRIDGE
PROPOSED MAIN LANES
PROPOSED FRONTAGE ROAD
PROPOSED RAMP
PROPOSED DIRECT CONNECTOR
PROPOSED CROSS STREET
PROPOSED TEMPORARY PAVEMENT
PROPOSED SIDEWALK
PAVEMENT TO BE REMOVED
POTENTIAL DISPLACEMENT
CURVE ID
PARCEL ID

GENERAL NOTES:

1. EXISTING FEATURES WERE NOT FIELD SURVEYED. SCHEMATICS ARE BASED ON AERIAL SURVEY DATED DECEMBER 2019 AND RECORD PLANS.
2. SUPERELEVATION AXIS OF ROTATION IS ABOUT THE POLL.
3. DIMENSIONS ARE TO THE EDGE OF PAVEMENT OR NORMAL FACE OF CURB, RAIL, BARRIER, OR WALL UNLESS NOTED OTHERWISE; REFER TO TYPICAL SECTIONS FOR BARRIER TYPES AND LIMITS.
4. APPROXIMATE 100 YEAR FLOODPLAIN LIMITS ARE BASED UPON FEMA FIRM MAPS 48113C0445J, 48113C0465J, 48113C0470J, 48113C0485J, 48113C0487J, 48113C0491J, 48113C0495J AND 48113C0604H.
5. OWNERSHIP INFORMATION SHOWN ON SCHEMATIC OBTAINED FROM TXDOT RIGHT OF WAY DIVISION (RECORD OWNERS).
6. EXISTING CULVERT LOCATIONS, SIZES, AND ELEVATIONS OBTAINED FROM RECORD DOCUMENTS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
7. EXISTING DRIVEWAYS WILL REMAIN UNLESS IT IS DETERMINED IN CONSTRUCTION PHASE THAT THEY INTERFERE WITH THE PROJECT OR A DEFICIENCY EXISTS WITH ESTABLISHING ADEQUATE ACCESS TO THE PROPERTY.
8. BUILDINGS ARE SHOWN AS POTENTIAL DISPLACEMENT IF THE PROPOSED ROW PHYSICALLY INTERSECTS THE EXISTING BUILDING STRUCTURE.
9. CURBS ARE TYPE II (5") UNLESS NOTED OTHERWISE.
10. CONVENTIONAL ROADWAY SIGNAGE (SMALL SIGNS) ARE NOT SHOWN AND WILL BE PLACED ACCORDING TO TMUTCD AND TXDOT STANDARDS.
11. ANY DRIVEWAYS OR ADDITIONS NOT SHOWN AT THE SHOP LOCATIONS DURING THE PLAN REVIEW WILL BE REVIEWED AND DENIED AT THE DISCRETION OF THE AREA OFFICE UNDERSTANDING THE DRIVEWAY PERMIT PROCESS.
12. EXISTING PAVEMENT/BRIDGES LOCATED WITHIN LIMITS OF PROPOSED RECONSTRUCTION WILL BE REMOVED UNLESS NOTED OTHERWISE.
13. ALL CROSS STREETS CORNER RADII ARE 50 FT MINIMUM UNLESS NOTED OTHERWISE.
14. ALL DRIVEWAYS CORNER RADII ARE 25 FT MINIMUM UNLESS NOTED OTHERWISE.
15. ALL MEDIAN AND MEDIAN CONCRETE TRAFFIC BARRIERS SHALL BE SINGLE SLOPE CONCRETE BARRIER (SSCB) UNLESS NOTED OTHERWISE.
16. INTERSECTION TRAFFIC SIGNAL WARRANT STUDY TO BE PERFORMED IN OPTIONAL REVIEW.

ROLL INDEX

ROLL 1: LOOP 9 MAINLANES
BEGIN PROJECT TO STA 582+00
ROLL 2: LOOP 9 MAINLANES
STA 582+00 TO STA 632+00
ROLL 3: LOOP 9 MAINLANES
STA 632+00 TO STA 682+00
ROLL 4: LOOP 9 MAINLANES
STA 682+00 TO STA 732+00
ROLL 5: LOOP 9 MAINLANES
STA 732+00 TO STA 782+00
ROLL 6: LOOP 9 MAINLANES
STA 782+00 TO STA 832+00
ROLL 7: LOOP 9 MAINLANES
STA 832+00 TO STA 879+00
ROLL 8: LOOP 9 MAINLANES
STA 879+00 TO STA 929+00
ROLL 9: LOOP 9 MAINLANES
STA 929+00 TO STA 979+00
ROLL 10: LOOP 9 MAINLANES
STA 979+00 TO STA 1029+00
ROLL 11: LOOP 9 MAINLANES
STA 1029+00 TO END PROJECT
ROLL 12: CROSS STREET AND U TURN PROFILES

CURVE DATA

	CURVE NO.	DELTA	DEGREE	TANGENT	LENGTH	RADIUS	BACK BEARING	AHEAD BEARING	PI STATION	PI NORTHING	PI EASTING	PC STATION	PT STATION
FRONTAGE ROADS													
EASTBOUND	LPBF1RE1	29°-11'-41"	20°-25'-1"	164.4'	313.18'	250'	N 80°02'-25.0" E	S 49°48'-7.1" E	3863+21.18 B.P.	6891651.380	2962336.195	3859+56.78 B.P.	3867+35.96 E.P.
	LPBF1RE2	29°-11'-41"	20°-25'-1"	164.4'	313.18'	250'	S 49°48'-7.1" E	N 80°02'-25.0" E	3867+20.14 B.P.	6891651.380	2962336.195	3863+55.74 B.P.	3871+34.92 E.P.
WESTBOUND	LPBF1RW1	29°-11'-41"	20°-25'-1"	164.4'	313.18'	250'	N 80°02'-25.0" E	S 49°48'-7.1" E	4863+21.18 B.P.	6891651.380	2962336.195	4859+56.78 B.P.	4867+35.96 E.P.
	LPBF1RW2	29°-11'-41"	20°-25'-1"	164.4'	313.18'	250'	S 49°48'-7.1" E	N 80°02'-25.0" E	4867+20.14 B.P.	6891651.380	2962336.195	4863+55.74 B.P.	4871+34.92 E.P.
U-TURNS													
UTRCH1	UTRCH1	118°00'-13.1"	57°-15'-45.88"	92.78'	183.33'	50'	S 89°04'-21.5" E	N 29°05'-35.6" W	1+42.58	6891583.100	2964474.110	1+00.00	1+83.33
	UTRCH1	118°00'-13.1"	57°-15'-45.88"	92.78'	183.33'	50'	N 29°05'-35.6" W	N 89°04'-21.5" E	3+25.91	6891586.100	2964476.110	1+83.33	3+08.66
UTRCH2	UTRCH2	118°00'-13.1"	57°-15'-45.88"	92.78'	183.33'	50'	S 60°41'-51.4" E	N 29°05'-35.6" W	1+42.58	6891583.100	2964476.110	1+00.00	1+83.33
	UTRCH2	118°00'-13.1"	57°-15'-45.88"	92.78'	183.33'	50'	N 29°05'-35.6" W	N 60°41'-51.4" E	3+25.91	6891586.100	2964476.110	1+83.33	3+08.66
SIDE STREET													
BEAR CREEK RD	BEARCK1	3°-56'-11.2"	0°-21'-51.4"	15.73'	31.45'	800'	S 89°13'-11.1" E	S 85°17'-24.9" E	14+54.31 B.P.	6891693.751	2961256.751	14+38.58 B.P.	14+69.99 E.P.
	BEARCK2	3°-56'-11.2"	0°-21'-51.4"	15.73'	31.45'	800'	S 85°17'-24.9" E	N 89°13'-11.1" E	20+70.58 B.P.	6891701.301	2961236.311	20+54.85 B.P.	20+86.30 E.P.

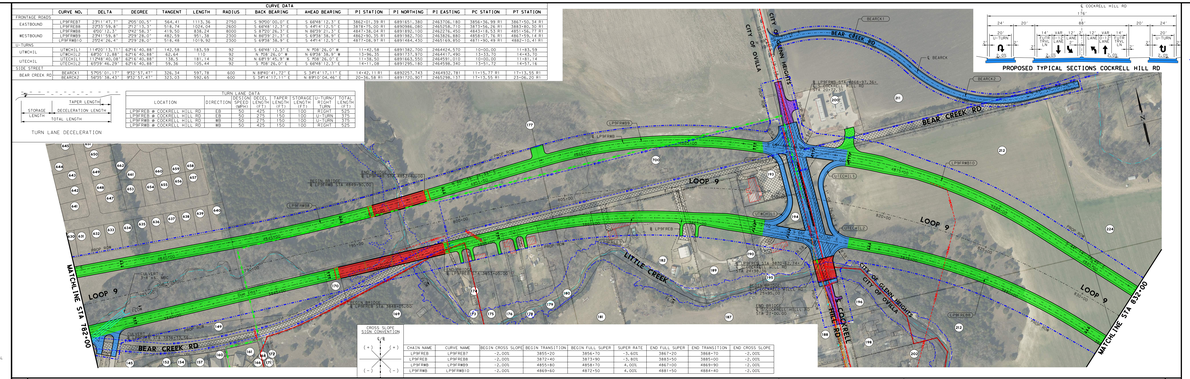
TURN LANE DATA

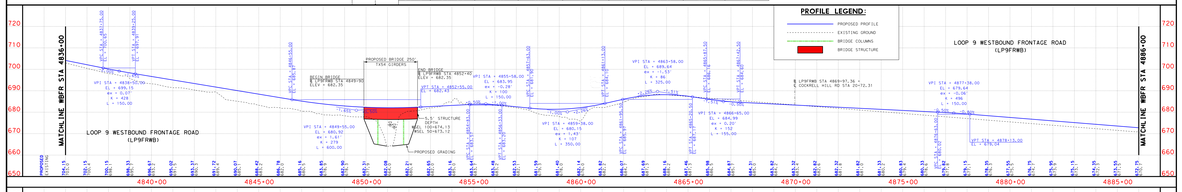
LOCATION	DIRECTION	POSTED SPEED (MPH)	TAPER LENGTH (FT)	STORAGE LENGTH (FT)	DECELERATION LENGTH (FT)	TOTAL LENGTH (FT)
LPBF1RE2 @ COCKRELL HILL RD	EB	50	40	100	100	240
LPBF1RW2 @ COCKRELL HILL RD	WB	50	40	100	100	240
LPBF1RW2 @ COCKRELL HILL RD	WB	50	40	100	100	240
LPBF1RW2 @ COCKRELL HILL RD	WB	50	40	100	100	240

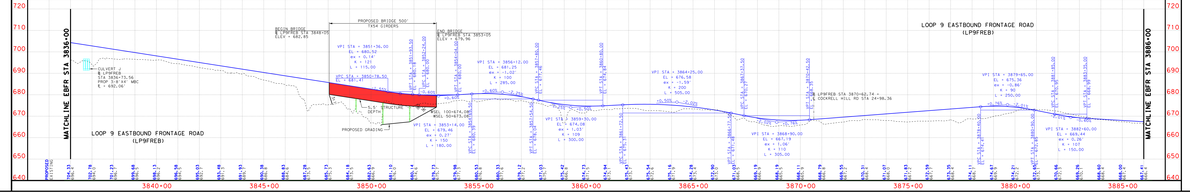
TURN LANE DECELERATION

CROSS SLOPE SIGN CONVENTION

CHAIN NAME	CURVE NAME	BEGIN CROSS SLOPE	BEGIN TRANSITION	BEGIN FULL SUPER	SUPER RATE	END FULL SUPER	END TRANSITION	END CROSS SLOPE
LPBF1RE2	LPBF1RE2T	-2.00%	3850+00	3856+70	3.00%	3868+70	3874+00	-2.00%
LPBF1RW2	LPBF1RW2B	-2.00%	3872+40	3873+90	3.50%	3883+50	3885+00	-2.00%
LPBF1RW2	LPBF1RW2A	-2.00%	4860+00	4866+70	3.00%	4878+70	4884+00	-2.00%
LPBF1RW2	LPBF1RW2D	-2.00%	4869+60	4872+50	4.00%	4881+50	4884+80	-2.00%







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ROLL 6 OF 12

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DESIGN SCHEMATIC - LOOP 9
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ROLL 6 OF 12