TEXAS DEPARTMENT OF TRANSPORTATION

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

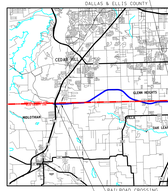
DESIGN SCHEMATIC
LOOP 9 SEGMENT A, ETC
DALLAS & ELLIS COUNTIES

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



APPROVED SCHEMATIC
NOT FOR CONSTRUCTION

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. 115868
Name P.E. NUMBER
COLTON W. ELLIS, P.E. 142665
Name P.E. NUMBER
12/4/2023
DATE

ORIGINAL SCALE
HORIZONTAL SCALE: 1" = 50'
VERTICAL SCALE: 1" = 5'

ROLL 5 OF 12

BGE, Inc.
2906 Dallas Parkway, Suite 101, Frisco, TX 75034
Tel: 972-464-4800 ● www.bgeinc.com
TBPE Registration No. F-1046

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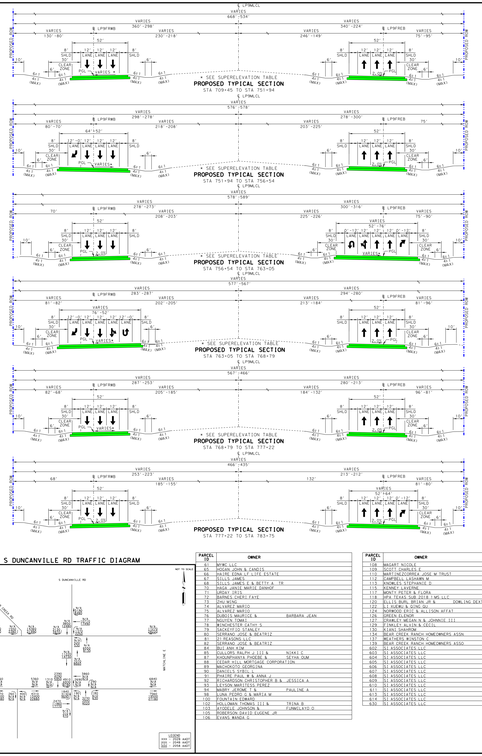
DESIGN SCHEMATIC - LOOP 9
DALLAS/ELLIS COUNTY

COUNTY: DALLAS/ELLIS
DATE: DECEMBER 2023

ROLL 5 OF 12



S DUNCANVILLE RD TRAFFIC DIAGRAM

PARCEL	OWNER
60	BENG, LLC
65	HOGAN JOHN & CANDIS
66	BOYD, DAVID W. & LUTA ESTATE
67	ELLIS, JAMES L.
68	ELLIS JAMES E & BETTY A - TR
69	ELLIS, JAMES E. & BARBARA ANNAP.
70	BRADY, ERIC
72	BARNES, CHERI FAYE
73	ELLIS, JAMES
74	ALVAREZ, MARCOS
75	ALVAREZ, MARCOS
76	BRAGGS, JAMES E. & BARBARA JEAN
78	MANCHESTER CATHY S
79	ELLIS, JAMES E. & BETTY A
80	GOODWIN, JOHN & BEATRIZ
81	JT READING L.L.C.
82	GOODWIN, JOHN & BEATRIZ
83	BALLARD KIM
84	GALLEGOS, RALPH J. III & NORA C.
85	GOODWIN, JOHN & BEATRIZ & ROSA, SAM
86	MONTGOMERY, MORGANA CORPORATION
88	MACHADO GEORGINA
89	MACHADO, GEORGINA
90	DAVIS, PAUL M & ANNA J
92	RICHARDSON CHRISTOPHER B & JESSICA A
93	MARTINEZ, JOSE & MARIA
94	BARRY, GEORGE A & FINALINE A
95	SAN PEDRO G & BETTY M
96	SAN PEDRO, GILBERT &
97	WILLIAMS, THOMAS LEE & TRINA R
103	WOODLE, JOHNSON & FLANNELSTO D
104	WOODLE, JOHNSON & CLAUDE JR
106	ALANIS, MANUEL A

PARCEL	OWNER
107	BASSETT NICOLE
108	SCOTT CHARLES J
109	SCOTT, CHARLES J. & LUTA W TRUST
110	CAMPBELL, LAVANDA A
113	ANDRADE, STEPHANIE D
114	ANDRADE, ALFRED
117	BENNETT, PEGGY & FLORA
118	APA TEXAS SUB 2018 LMS LLC
119	ELLIS, JAMES E. & BETTY A - DOWLING DEXTER FULTON
120	ALVAREZ, MARCOS
121	MORROOD ERIC & ALLISON AFFAT
122	ELLIS, JAMES E.
123	STANBLE MEADOWS B LEGRROLL III
125	ZIMMER, ALICIA & CECIL
126	ZIMMER, ALICIA & CECIL
128	BEAR CREEK RANCH HOMEOWNERS ASSN
132	WEATHERS, BONSTON C
133	BEAR CREEK RANCH HOMEOWNERS ASSO
200	ALLIANCE LLC
203	S.I.ASSOCIATES LLC
204	S.I.ASSOCIATES LLC
205	S.I.ASSOCIATES LLC
206	S.I.ASSOCIATES LLC
207	S.I.ASSOCIATES LLC
208	S.I.ASSOCIATES LLC
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213	S.I.ASSOCIATES LLC
214	S.I.ASSOCIATES LLC
215	S.I.ASSOCIATES LLC
216	S.I.ASSOCIATES LLC

PLAN LEGEND

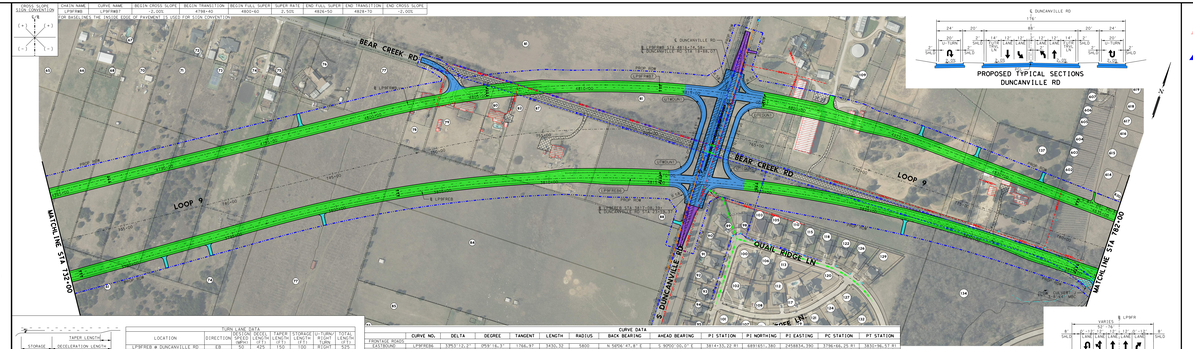
PROPOSED E/B
PROPOSED ROW
EXISTING ROW
PROPOSED ROW (BY OTHERS)
CONTROL OF ACCESS
PROPERTY LINES
CITY LIMITS
100 YR FLOODPLAIN LIMITS
EXISTING PLANIMETRIC FEATURES
COUNTY LINE
PROPOSED EDGE OF PAVEMENT
PROPOSED TRAFFIC BARRIER
PROPOSED RETAINING WALL
PROPOSED BRIDGE RENT
PROPOSED CULVERT
OVERHEAD ELECTRIC
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
FEASIBLE DRIVEWAY LOCATION (SEE NOTE 17)
PAVEMENT TO BE REMOVED
POTENTIAL DISPLACEMENT
CURVE ID
PARCEL ID

GENERAL NOTES:

1. EXISTING FEATURES WERE NOT FIELD SURVEYED. SCHEMATICS ARE BASED ON AERIAL SURVEYS DATED DECEMBER 2013 AND RECORD PLANS.
2. SUPERELEVATION AXIS OF ROTATION IS ABOUT THE POL.
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 FLOOD INSURANCE RATE MAPS, COMMUNITY PANELS 48113C0195J, 48113C0205J, 48113C0215J, 48113C0220J AND 48113C0240J.
5. OWNERSHIP INFORMATION SHOWN ON SCHEMATIC OBTAINED FROM TCAD. (TCAD DATA AVAILABLE AS OF 2022).
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 COORDINATION WITH THE LOCAL JURISDICTION THAT THE DRIVEWAY IS A DEDICATED ACCESS TO LOCAL ROADWAY. (DATA AVAILABLE AS OF 2022).
8. BUILDINGS ARE SHOWN AS POTENTIAL DISPLACEMENT IF THE PROPOSED ROW PHYSICALLY INTERSECTS THE EXISTING BUILDING STRUCTURE.
9. CURBS ARE TYPE II (6") UNLESS NOTED OTHERWISE.
10. CONVENTIONAL ROADWAY SIGNAGE (SMALL SIGNS) ARE NOT SHOWN AND WILL BE DETERMINED DURING THE DESIGN PHASE OF THE PROJECT.
11. WHERE TURN LANES ARE NOT SHOWN AT THE RAMP LOCATIONS, THE RAMPS WILL BE DESIGNED AS RESTRIPED AND DEPENDING ON CONSIDERATION OF THE AREA OFFICE THROUGH 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 MINIMUM MEDIAN CONCRETE TRAFFIC BARRIERS SHALL BE SINGLE SLOPE CONCRETE BARRIER (SSCB) UNLESS NOTED OTHERWISE.
16. INTERSECTION TRAFFIC SIGNAL WARRANT STUDY TO BE PERFORMED IN DETAILED DESIGN.
17. EXACT LOCATION OF FEASIBLE DRIVEWAYS CAN VARY AND SUBJECT TO THE DRIVEWAY PERMITTING PROCESS WITH THOST DALLAS DISTRICT AREA OFFICE

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

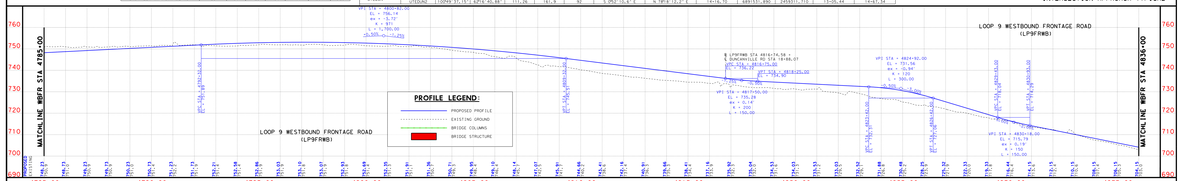


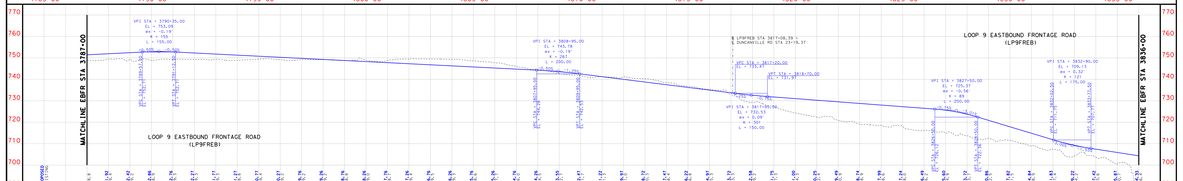
CROSS SLOPE SIGN CONVENTION	DATUM NAME	CURVE NAME	BEGIN CROSS SLOPE	BEGIN TRANSITION	BEGIN FULL SUPER	SUPER RATE	END FULL SUPER	END TRANSITION	END CROSS SLOPE
	LPSFWRB	LPSFWRB7	-2.00%	4788+40	4800+60	2.50%	4828+52	4829+72	-2.00%
	FOR BOTH LINES THE INSIDE EDGE OF PAVEMENT IS USED FOR FOR CONSTRUCTION								

TURN LANE DATA								
LOCATION	DIRECTIONS	SPEED LIMITS	TAPER LENGTH	STORAGE LENGTH	TURN LENGTH	RIGHT TURNS	LEFT TURNS	TOTAL LANES
LPSFWRB & DUNCANVILLE RD	EB	50	240	150	150	0-RIGHT	1-LEFT	1
LPSFWRB & DUNCANVILLE RD	EB	50	240	150	150	0-RIGHT	1-LEFT	1
LPSFWRB & DUNCANVILLE RD	WB	50	240	150	150	1-RIGHT	0-LEFT	1
LPSFWRB & DUNCANVILLE RD	WB	50	240	150	150	1-RIGHT	0-LEFT	1
LPSFWRB & RANCH VIEW DR	EB	50	425	150	150	0-RIGHT	1-LEFT	1
LPSFWRB & RANCH VIEW DR	EB	50	425	150	150	0-RIGHT	1-LEFT	1

TURN LANE DECELERATION

CURVE DATA												
CURVE NO.	DELTA	DEGREE	TANGENT	LENGTH	RADIUS	AHEAD BEARING	BACK BEARING	PI STATION	PI NORTHING	PI EASTING	PC STATION	PT STATION
FRONTAGE ROADS												
LEFTBOUND	LPSFWRB	136°12'0"	3952.1'	7526.3'	5630.00	N 50°00'0.0" E	S 50°00'00.0" E	38+19.55 B1	6891551.950	2456854.380	3786+06.35 B1	3921+46.51 B1
RIGHTBOUND	LPSFWRB	136°12'0"	3952.1'	7526.3'	5630.00	N 50°00'0.0" E	S 50°00'00.0" E	38+19.55 B1	6891551.950	2456854.380	3786+06.35 B1	3921+46.51 B1
U-TURN	LT-BEAR CREEK RD	180°0'0"	1.0'	3.1'	1.00	N 50°00'0.0" E	S 50°00'00.0" E	12+21.45	6891551.950	2456854.380	12+20.50	12+24.50
	LT-BEAR CREEK RD	180°0'0"	1.0'	3.1'	1.00	N 50°00'0.0" E	S 50°00'00.0" E	12+21.45	6891551.950	2456854.380	12+20.50	12+24.50
U-TURN	LT-DUNCANVILLE RD	180°0'0"	1.0'	3.1'	1.00	N 50°00'0.0" E	S 50°00'00.0" E	12+21.45	6891551.950	2456854.380	12+20.50	12+24.50
	LT-DUNCANVILLE RD	180°0'0"	1.0'	3.1'	1.00	N 50°00'0.0" E	S 50°00'00.0" E	12+21.45	6891551.950	2456854.380	12+20.50	12+24.50





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Name P.E. NUMBER
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ORIGINAL SCALE
HORIZONTAL SCALE: 1" = 50'
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ROLL 5 OF 12

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DESIGN SCHEMATIC - LOOP 9
DALLAS/ELLIS COUNTY

COUNTY: DALLAS/ELLIS
DATE: DECEMBER 2023

ROLL 5 OF 12