STATE OF TEXAS
DEPARTMENT OF TRANSPORTATION
DALLAS DISTRICT

DISTRICT ENGINEER, JAMES K. SELMAN, P.E.

STATE LOOP 9
DESIGN SCHEMATIC

FROM: IH 35E

TO: IH 45

CITIES OF LANCASTER, RED OAK, FERRIS AND WILMER

DALLAS AND ELLIS COUNTIES

CSJ: 2964-10-005

FUNCTIONAL CLASSIFICATION:
LOOP 9: RURAL FREEWAY
IH 35E: URBAN FREEWAY
IH 45: RURAL FREEWAY

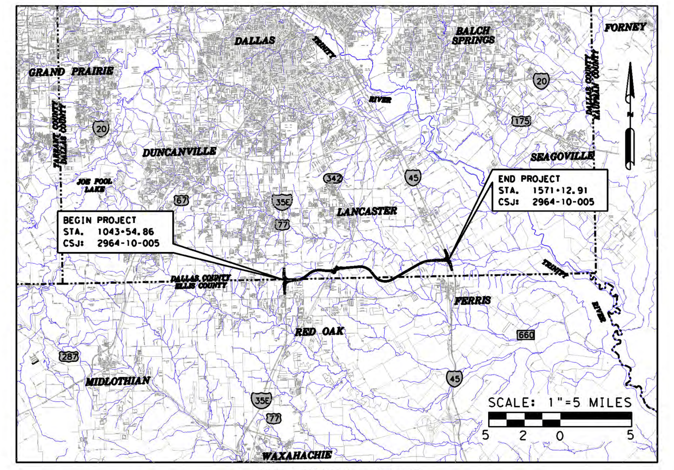
LOOP 9, IH 35E, AND IH 45 DESIGN SPEED

MAIN LANES:	70 MPH
FRONTAGE ROADS:	50 MPH
RAMPS:	50 MPH
BUSINESS 45:	50 MPH
SH 342:	50 MPH
HOUSTON SCHOOL RD:	40 MPH
NAKOMIS RD:	30 MPH
REINDEER RD:	30 MPH
LOCAL SIDE STREETS:	30 MPH
JUG HANDLES:	25 MPH
U-TURNS:	25 MPH

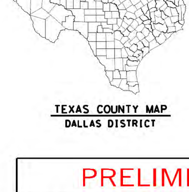
E MAX: 6%

PROJECT LENGTH: 10.00 MILES

PROJECT DESCRIPTION:
CONSTRUCT 0 TO 2 (ULTIMATE 6) LANE FRONTAGE ROADS.



LOCATION MAP



HORIZ. 1"=200'
VERT. 1"=20'

PHASE I & II

PRELIMINARY

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BY J. BRYAN HODGES, P.E. 68013
ATKINS
DATE 5/22/2017

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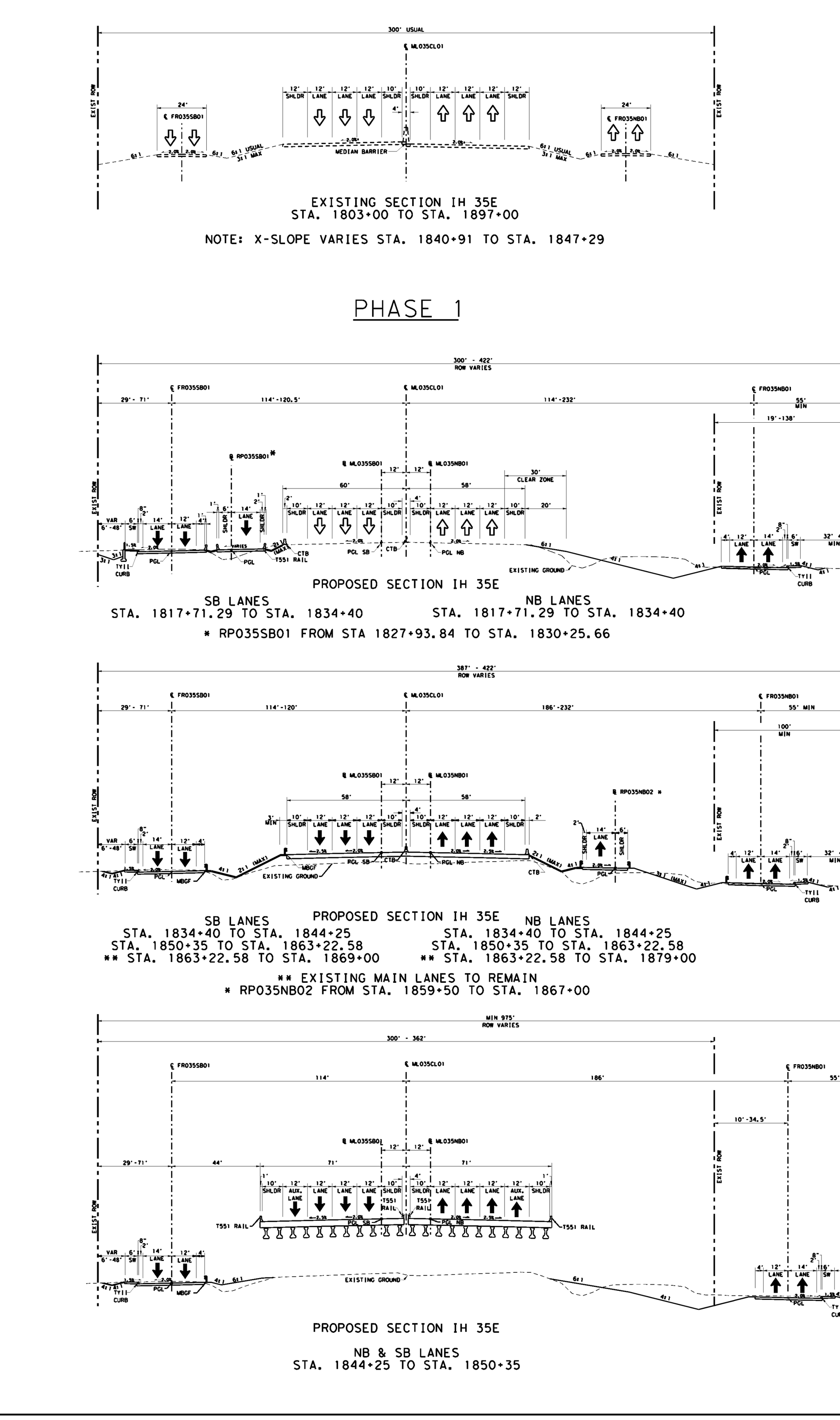
ATKINS
18383 PRESTON RD. SUITE #500
DALLAS, TEXAS 75252
TEL: 1-972-818-7275
FAX: 1-972-380-2609
TBPE REG. #F-474

ROLL 1 OF 8
MARCH 2017

EXISTING TYPICAL SECTION



PLAN LEGEND

- PROPOSED ℄
- PROPOSED ROW
- EXISTING ROW
- FUTURE ROW
- CONTROL OF ACCESS ROW
- PROPERTY LINES
- DRAINAGE EASEMENT
- COUNTY LINE
- PROPOSED PHASE I ROADWAY
- PROPOSED PHASE II ROADWAY
- FUTURE IMPROVEMENTS (BY OTHERS)
- PROPOSED BRIDGE PHASE 1
- PROPOSED BRIDGE PHASE II
- PHASE I TEMPORARY ACCESS
- FLOOD PLAIN
- TRANSMISSION LINES
- PHASE I REMOVAL
- PHASE II REMOVAL

PROFILE LEGEND

- PROPOSED PGL AT NBFR
- EXISTING GROUND AT NBFR
- PROPOSED PGL AT SBFR
- EXISTING GROUND AT SBFR

TYPICAL SECTION LEGEND

- EXISTING LANE DIRECTION
- PROPOSED LANE DIRECTION
- EXISTING CONSTRUCTION
- PROPOSED CONSTRUCTION

NOTES:

1. EXISTING FEATURES WERE NOT FIELD SURVEYED. SCHEMATICS ARE BASED ON AERIAL SUVEYS DATED DECEMBER 2013 AND RECORD PLANS.
2. SUPERELEVATION AXIS OF ROTATION IS ABOUT THE PGL.
3. DIMENSIONS ARE TO THE EDGE OF PAVEMENT OR NOMINAL FACE OF CURB, RAIL, BARRIER, OR WALL (UNLESS NOTED OTHERWISE).
4. APPROXIMATE 100 YEAR FLOODPLAIN LIMITS ARE BASED UPON FEMA Q3 DATA, 2017 (FIRM PANELS 48139C-2 AND 48139C-17)
5. OWNERSHIP INFORMATION SHOWN ON SCHEMATIC OBTAINED FROM DALLAS COUNTY APPRAISAL DISTRICT (20 MAY 2016) AND ELLIS COUNTY APPRAISAL DISTRICT (9 SEPT 2015).
6. EXISTING CULVERT LOCATIONS, SIZE, AND ELEVATIONS OBTAINED FROM RECORD DOCUMENTS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
7. ADA RAMPS ARE NOT DEPICTED IN THE PLAN.
8. EXISTING DRIVEWAYS WILL REMAIN UNLESS IT IS DETERMINED DURING DETAILED DESIGN STAGE AND COORDINATION WITH THE LOCAL GOVERNMENT THAT THE DRIVEWAY IS A SAFETY ISSUE AND/OR IS LOCATED WITHIN ACCESS DENIAL LIMITS SHOWN.
9. FINAL DRIVEWAY LOCATIONS TO BE DETERMINED IN THE PS&E DEVELOPMENT PHASE.
10. BUILDINGS ARE SHOWN AS POTENTIAL DISPLACEMENT IF THE PROPOSED ROW PHYSICALLY INTERSECTS THE EXISTING BUILDING STRUCTURE.
11. CURBS ON THE FRONTAGE ROAD AND CROSS STREETS ARE TYPE II (UNLESS NOTED OTHERWISE).
12. CONVENTIONAL ROADWAY SIGNAGE (SMALL SIGNS) ARE NOT SHOWN AND WILL BE DEVELOPED DURING THE PS&E PHASE OF THE PROJECT.
13. DESIGN SCHEMATIC SHOWN HEREIN IS FOR PHASE 1 AND II. PRELIMINARY SCHEMATIC OF ULTIMATE DESIGN IS PROVIDED FOR ROW ASCERTAINMENT AND SHALL BE FURTHER DEVELOPED IN THE FUTURE (BY OTHERS).
14. EXISTING OVERHEAD POWER LINE CROSSINGS SHOWN. COORDINATION WITH UTILITY PROVIDER WILL BE REQUIRED DURING DETAILED DESIGN TO ESTABLISH APPROPRIATE VERTICAL CLEARANCES.
15. VERTICAL CLEARANCES AT RAILROAD CROSSINGS WERE DETERMINED FROM PROVIDED TOPOGRAPHICAL DATA.
16. EXISTING ROW IS APPROXIMATE AND BASED ON AVAILABLE AS-BUILT PLANS.

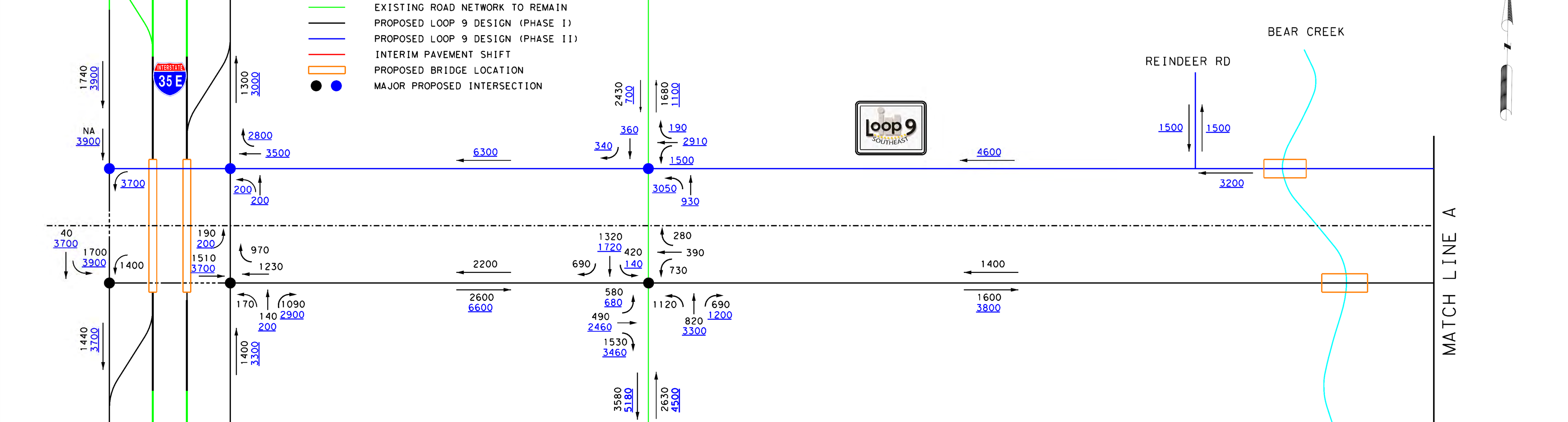
PHASED CONSTRUCTION APPROACH

PHASE 1: CONSTRUCT ONE TWO-WAY FRONTAGE ROAD AND ACQUIRE THE ENTIRE PROPOSED ROW FOR THE ULTIMATE FACILITY.

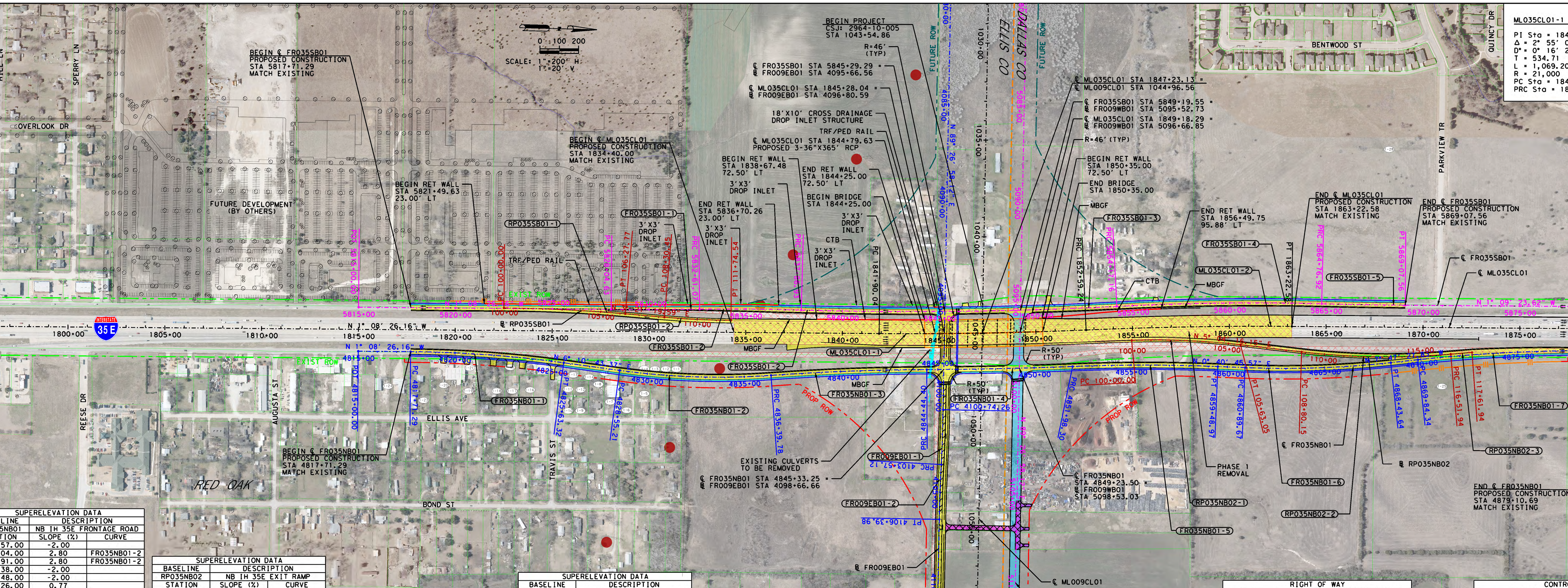
PHASE 2: CONSTRUCT THE SECOND FRONTAGE ROAD AND CONVERT THE EXISTING FRONTAGE ROAD'S TRAFFIC DIRECTION TO ONE WAY.

PHASE 3: FUTURE; CONSTRUCT ISOLATED GRADE SEPARATIONS AT SPECIFIC HIGH-VOLUME INTERSECTIONS.

PHASE 4: ULTIMATE, FUTURE; CONSTRUCT CONTINUOUS MAINLANES, RAMPS AND DIRECT CONNECTORS IN BOTH DIRECTIONS.



Description of Location	Average Daily Traffic		2040 Design Year Traffic Data			
			Directional	K Factor	Percent Trucks	
	2020	2040	Factor		ADT	DHV
Loop 9 (I-35E to I-45)	6,300	13,400	55%	11.7	5	3.5



SUPERELEVATION DATA		
BASELINE	DESCRIPTION	
FR035NB01	NB IH 35E FRONTAGE ROAD	
STATION	SLOPE (%)	CURVE
4827+57.00	-2.00	
4829+04.00	2.80	FR035NB01-2
4835+91.00	2.80	FR035NB01-2
4837+38.00	-2.00	
4843+48.00	-2.00	
4844+26.00	0.77	
4846+74.00	0.77	
4847+06.00	1.05	
4849+72.00	1.05	
4850+57.00	-2.00	
4859+91.00	-2.00	
4861+38.00	2.20	FR035NB01-6
4867+95.00	2.20	FR035NB01-6
4869+42.00	-2.00	

SUPERELEVATION DATA		
BASELINE	DESCRIPTION	
RP035NB02	NB IH 35E EXIT RAMP	
STATION	SLOPE (%)	CURVE
100+00.00	-2.50	
101+46.00	-2.80	RP035NB02-1
105+15.00	-2.80	RP035NB02-1
106+61.00	-2.50	
107+81.00	-2.50	
109+29.00	2.80	RP035NB02-2
116+03.00	2.80	RP035NB02-2
117+51.00	-2.00	

SUPERELEVATION DATA		
BASELINE	DESCRIPTION	
RP035SB01	SB IH 35E EXIT RAMP	
STATION	SLOPE (%)	CURVE
107+32.00	-2.00	
108+79.00	-2.60	RP035SB01-2
110+29.00	-2.60	RP035SB01-2
111+74.53	-2.50	

SUPERELEVATION DATA		
BASELINE	DESCRIPTION	
FR035SB01	SB IH 35E FRONTAGE ROAD	
STATION	SLOPE (%)	CURVE
5843+48.00	-2.00	
5844+26.00	0.77	
5846+74.00	0.77	
5847+06.00	1.05	
5849+72.00	1.05	
5850+57.00	-2.00	

RIGHT OF WAY			
CL/BL	STATION	OFFSET	RT/LT
FR035NB01	4817+39.69	55.00'	RT
FR035NB01	4837+82.80	55.00'	RT
FR035NB01	4857+32.56	55.00'	RT
FR035NB01	4877+60.08	55.00'	RT

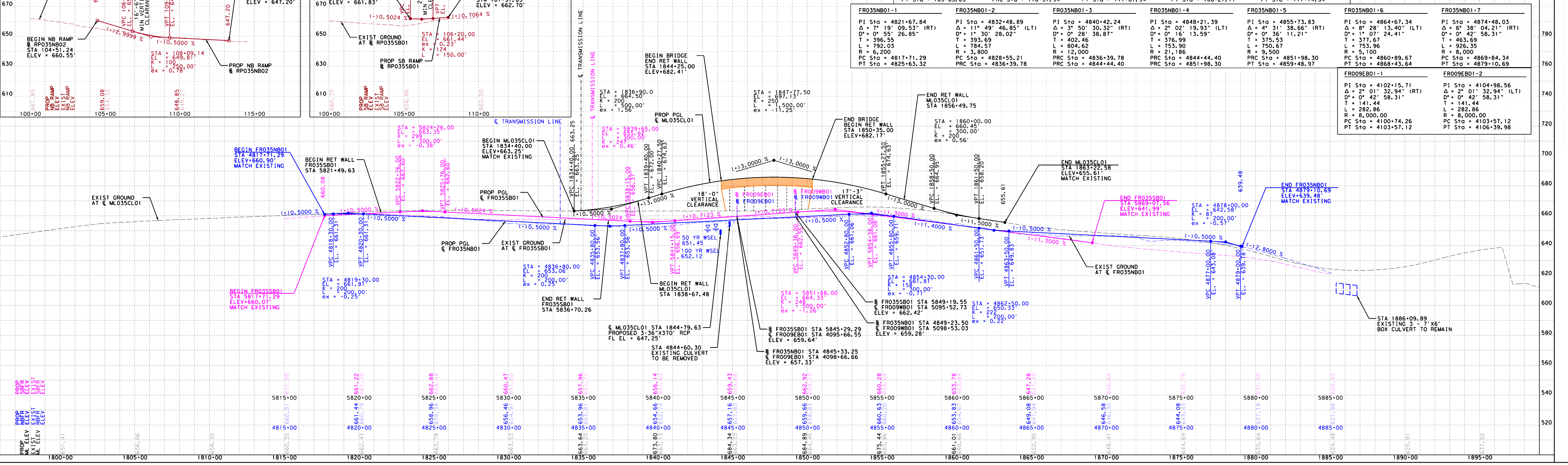
CONTROL OF ACCESS				
	CL/BL	STATION	OFFSET	RT/LT
BEGIN	FR035NB01	4868+34.00	55.00'	RT
END	FR035NB01	4877+25.25	55.00'	RT
BEGIN	FR035SB01	5819+69.48	36.00'	LT
END	FR035SB01	5829+53.81	35.55'	LT

ML035CL01-1	ML035CL01-2	FR035SB01-1	FR035SB01-2
PI Sta = 1847+24.75	PI Sta = 1857+91.02	PI Sta = 5830+32.85	PI Sta = 5835+24.03
Δ = 2° 55' 01.79" (LT)	Δ = 2° 54' 04.33" (RT)	Δ = 1° 02' 45.92" (LT)	Δ = 2° 09' 07.70" (RT)
D° = 0° 16' 22.21"	D° = 0° 16' 22.21"	D° = 0° 13' 45.06"	D° = 0° 24' 33.32"
T = 534.71	T = 531.79	T = 228.23	T = 262.96
L = 1,069.20	L = 1,063.35	L = 456.44	L = 525.87
R = 21,000	R = 21,000	R = 25,000	R = 14,000
PC Sta = 1841+90.04	PRC Sta = 1852+59.24	PC Sta = 5828+04.63	PRC Sta = 5832+61.07
PRC Sta = 1852+59.24	PT Sta = 1863+22.58	PRC Sta = 5832+61.07	PRC Sta = 5837+86.93

FR035SB01-3	FR035SB01-4	FR035SB01-5
PI Sta = 5846+02.46	PI Sta = 5859+47.29	PI Sta = 5866+92.24
Δ = 4° 28' 19.71" (LT)	Δ = 4° 20' 13.57" (RT)	Δ = 0° 59' 13.10" (LT)
D° = 0° 16' 27.57"	D° = 0° 24' 33.32"	D° = 0° 13' 45.06"
T = 815.53	T = 530.13	T = 215.33
L = 1,630.23	L = 1,059.75	L = 430.65
R = 20,886	R = 14,000	R = 24,999.92
PRC Sta = 5837+86.93	PRC Sta = 5854+17.16	PRC Sta = 5864+76.92
PRC Sta = 5854+17.16	PRC Sta = 5864+76.92	PT Sta = 5869+07.56

NUMBER	PROPERTY OWNERS	PARCEL NUMBER
1-1	LEWIS R H DR	147682
1-2	LEWIS ROMEO H JR	147692
1-3	GARZA JESUS & MARIA T TRUSTEES	147691
1-4	GONZALEZ JESUS Z & MARIA D	147690
1-5	DUENAS ISIDRO	147771
1-6	GARZA JESUS JR & MARISOL	147770
1-7	MASON KENT	147780
1-8	PEREZ JUAN M	147779
1-9	MANZANO HERMINIO	147686
1-10	HURT BOBBY G & PAULA F	147683
1-11	MASSEY COMMERCIAL PROPERTIES, LLC	147684
1-12	MASSEY COMMERCIAL PROPERTIES, LLC	147685
1-13	MASSEY COMMERCIAL PROPERTIES, LLC	147696
1-14	MASSEY COMMERCIAL PROPERTIES, LLC	147697
1-15	MASON KENT	147687
1-16	RAY CARLOS L	147700
1-17	CAVAZOS CRYSTAL D	147693
1-18	BOLTON DIANE	147698
1-19	BUTLER WILLIAM DAVID	147703
1-20	BUTLER DAVID	181518
1-21	BUTLER WILLIAM DAVID	147709
1-22	CAVAZOS CRYSTAL D	147699
1-23	BUTLER BILLY D	198698
1-24	BUTLER BILLY D	155655
1-25	FCS LANCASTER LTD	65069366010010000
1-26	FCS LANCASTER LTD	65061924010080600
1-27	WEIR JACK L	65061924010070000
1-28	HILLWOOD RLD LP	65061924010010000

RP035NB02-1	RP035NB02-2	RP035NB02-3	RP035SB01-1	RP035SB01-2
PI Sta = 102+82.04	PI Sta = 112+67.38	PI Sta = 117+06.94	PI Sta = 103+14.04	PI Sta = 110+02.58
Δ = 8° 29' 22.22" (LT)	Δ = 11° 38' 13.03" (LT)	Δ = 0° 47' 11.89" (RT)	Δ = 4° 29' 45.75" (RT)	Δ = 4° 29' 45.75" (RT)
D° = 1° 30' 28.02"	D° = 1° 30' 28.02"	D° = 0° 42' 54.45"	D° = 0° 42' 58.31"	D° = 1° 18' 23.87"
T = 282.04	T = 387.23	T = 55.00	T = 314.04	T = 172.13
L = 563.05	L = 771.79	L = 110.00	L = 627.77	L = 344.09
R = 3,800.00	R = 3,800.00	R = 8,012.00	R = 8,000.00	R = 4,385.00
PC Sta = 100+00.00	PC Sta = 108+80.15	PRC Sta = 116+51.94	PC Sta = 100+00.00	PC Sta = 108+30.45
PT Sta = 105+63.05	PRC Sta = 116+51.94	PT Sta = 117+61.94	PT Sta = 106+27.77	PT Sta = 111+74.54



FR035NB01-1	FR035NB01-2	FR035NB01-3	FR035NB01-4	FR035NB01-5	FR035NB01-6	FR035NB01-7
PI Sta = 4821+67.84	PI Sta = 4832+48.89	PI Sta = 4840+42.24	PI Sta = 4848+21.39	PI Sta = 4855+73.83	PI Sta = 4864+67.34	PI Sta = 4874+48.03
Δ = 7° 19' 09.53" (RT)	Δ = 11° 49' 46.85" (LT)	Δ = 3° 50' 30.32" (RT)	Δ = 2° 02' 19.93" (LT)	Δ = 4° 31' 38.66" (RT)	Δ = 8° 28' 13.40" (LT)	Δ = 6° 38' 04.21" (RT)
D° = 0° 55' 26.85"	D° = 1° 30' 28.02"	D° = 0° 28' 38.87"	D° = 0° 16' 13.59"	D° = 0° 36' 11.21"	D° = 1° 07' 24.41"	D° = 0° 42' 58.31"
T = 396.55	T = 393.69	T = 402.46	T = 376.99	T = 375.53	T = 377.67	T = 463.69
L = 792.03	L = 784.57	L = 804.62	L = 753.90	L = 750.67	L = 753.96	L = 926.35
R = 6,200	R = 3,800	R = 12,000	R = 21,186	R = 9,500	R = 5,100	R = 8,000
PC Sta = 4817+71.29	PC Sta = 4828+55.21	PRC Sta = 4836+39.78	PRC Sta = 4844+44.40	PRC Sta = 4851+98.30	PC Sta = 4860+89.67	PC Sta = 4869+84.34
PT Sta = 4825+63.32	PRC Sta = 4836+39.78	PRC Sta = 4844+44.40	PRC Sta = 4851+98.30	PT Sta = 4859+48.97	PT Sta = 4868+43.64	PT Sta = 4879+10.69

FR009EB01-1	FR009EB01-2
PI Sta = 4102+15.71	PI Sta = 4104+98.56
Δ = 2° 01' 32.94" (RT)	Δ = 2° 01' 32.94" (LT)
D° = 0° 42' 58.31"	D° = 0° 42' 58.31"
T = 141.44	T = 141.44
L = 282.86	L = 282.86
R = 8,000.00	R = 8,000.00
PC Sta = 4100+74.26	PC Sta = 4103+57.12
PT Sta = 4103+57.12	PT Sta = 4106+39.98

STATE OF TEXAS
DEPARTMENT OF TRANSPORTATION
DALLAS DISTRICT
DISTRICT ENGINEER, JAMES K. SELMAN, P.E.
STATE LOOP 9
DESIGN SCHEMATIC
FROM: IH 35E
TO: IH 45
CITIES OF LANCASTER, RED OAK, FERRIS AND WILMER
DALLAS AND ELLIS COUNTIES
CSJ: 2964-10-005
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PROJECT LENGTH: 10.00 MILES
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CONSTRUCT 0 TO 2 (ULTIMATE 6) LANE FRONTAGE ROADS.
LOCATION MAP
TEXAS COUNTY MAP
DALLAS DISTRICT
HORIZ. 1"=200'
VERT. 1"=20'
PHASE I & II
PRELIMINARY
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ROLL 1 OF 8
MARCH 2017

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DEPARTMENT OF TRANSPORTATION

DALLAS DISTRICT

DISTRICT ENGINEER, JAMES K. SELMAN, P.E.

STATE LOOP 9 DESIGN SCHEMATIC

FROM: IH 35E

TO: IH 45

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DALLAS AND ELLIS COUNTIES

CSJ: 2964-10-005

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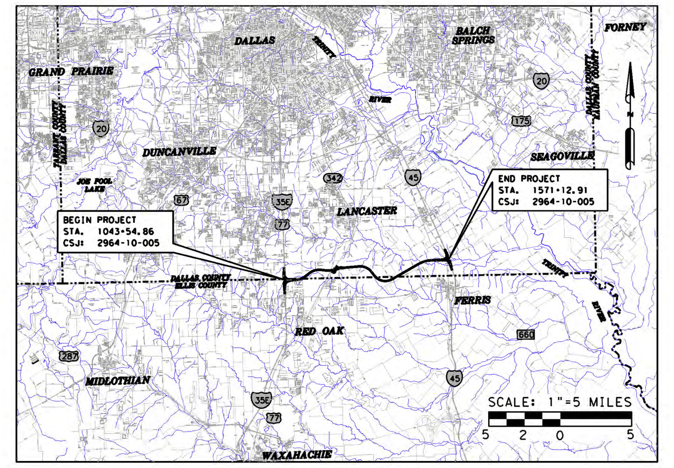

LOCATION MAP

TEXAS COUNTY MAP
DALLAS DISTRICT

HORIZ. 1"=200'
VERT. 1"=20'

PHASE I & II

Loop 9 SOUTHEAST

PRELIMINARY

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TBPE REG. #F-474

MARCH 2017

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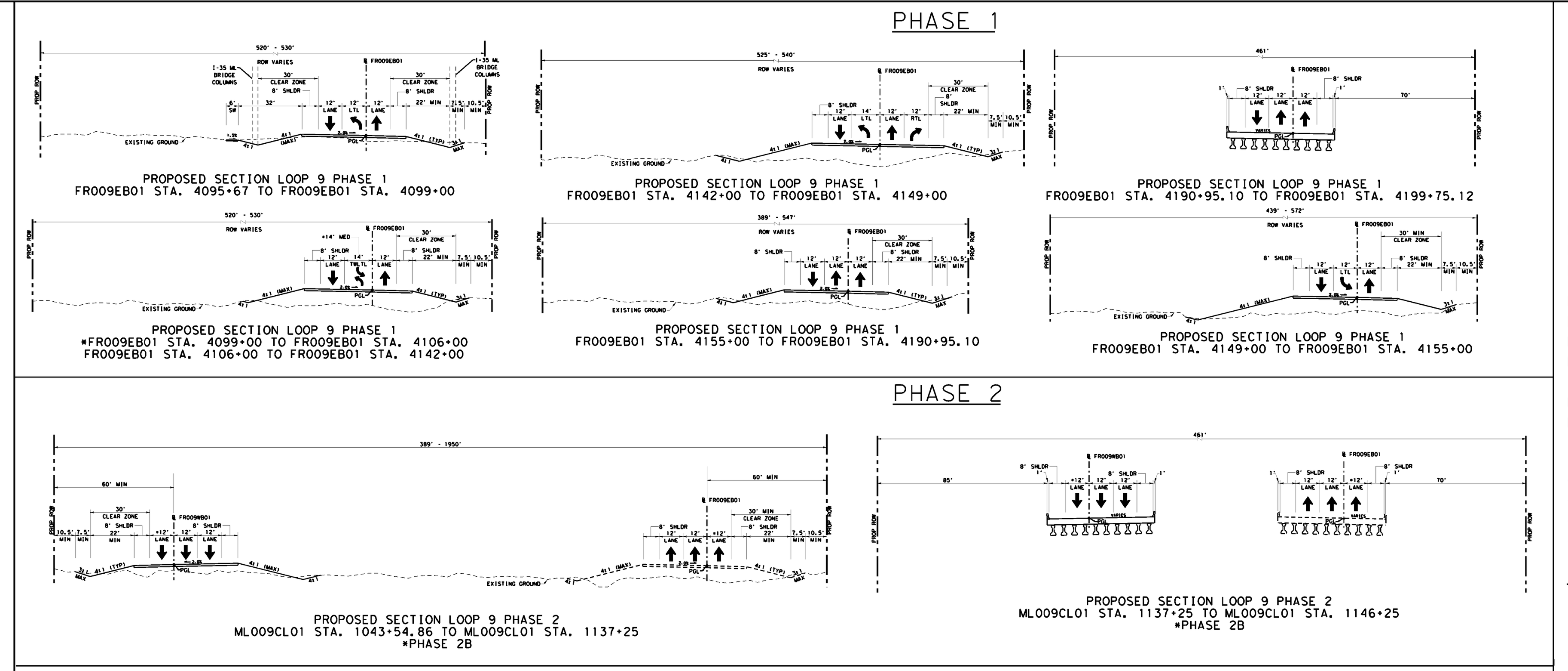
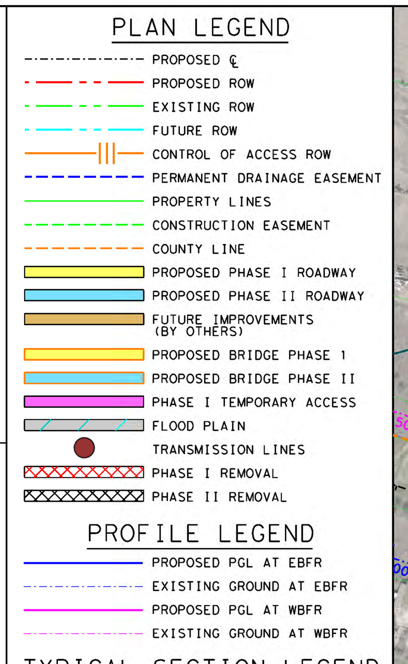
5/22/2017

PHASE 1





TYPICAL SECTION LEGEND

- EXISTING LANE DIRECTION
- PROPOSED LANE DIRECTION
- EXISTING CONSTRUCTION
- PROPOSED CONSTRUCTION

NUMBER	OWNER NAME	PARCEL NUMBER
2-1	FCS LANCASTER LTD	65069366010010100
2-2	HUFFINES JOHN F	65069366010100000
2-3	LETCO ACQUISITION LLC	65069366010020000
2-4	ROSS BARBARA ETAL	65069366010080000
2-5	REYES FAUSTINO	65061924010270100
2-6	LEWIS GEORGE A JR	65061924010280000
2-7	COLLARD WILLIAM D &	65061924010140000
2-8	DELSEIRRA FRANCISCO	65069366010110000
2-9	MILLER A J & MARY	65069366010030100
2-10	MILLER ARLON J	65069366010030000
2-11	DURBIN ANNA JO	60234500010010000
2-12	DURBIN MARK ANTHONY SR	60234500010020000
2-13	ALNACHAWATI NOUR	60234500010030000
2-14	HILZ LANI M	60234500010040000
2-15	BERNHARD CATHERINE	60234500010050000
2-16	JURADO AMALIO S	60234500010060000
2-17	CARRILLO RODOLFO & CIRIA	60234500010070000
2-18	BOLES FRANCIS ODELL	60234500010080000
2-19	BALDERAS JOSE H	60234500010240000
2-20	MORENO GUADALUPE	60234500010230000
2-21	RIVAS MARIO & EVA S	60234500010220000
2-22	MENDOZA ELISA MARINE	60234500010210000
2-23	BALDERAS LUIS	60234500010200000
2-24	ESQUEDA RUBEN	60234500010190000
2-25	CABRERA ALBERTO	60234500010180000
2-26	RODRIGUEZ ROLANDO	60234500010170000
2-27	ESPARZA OSCAR R	60234500010160000
2-28	STAFFORD DONALD A	60234500020120000
2-29	WASHINGTON DIANE	60234500010150000
2-30	KUEBLER CATHY	60234500010140000
2-31	RODRIGUEZ RAMIRO	60234500010130000
2-32	BURDEN SUE	65069366010060000
2-33	BURDEN SUE	65069366010090000
2-34	RODRIGUEZ RAMIRO	60234500010120000
2-35	GREENWELL JEAN A	60234500010090000
2-36	VIZCARRA JESUS M	65128880010050000
2-37	OLSEN RAYMOND &	65128880010010300
2-38	MOFFETT JAMES & MARILYN	65128880010010500
2-39	KHAMMASH THERESA JORDAN &	65128478010040000
2-40	COFFMAN INVESTMENTS LP &	65128478010030000

NUMBER	OWNER NAME	PARCEL NUMBER
2-41	MOFFETT JAMES W & MARILYN	65128880010030300
2-42	MOFFETT JAMES W & MARILYN	65128880010030000
2-43	MOFFETT JAMES W & MARILYN	65128880010030100
2-44	HARWELL LARRY	65128880010010000
2-45	HARWELL LARRY & YANCEY	65128880010010200
2-46	MOFFETT JAMES & MARILYN	65128880010010600
2-47	OLSEN RAYMOND &	65128880010010400
2-48	HARWELL LARRY	65128880010010100
2-49	PETERSON ANTHONY & SHARON	60234500010110000
2-50	MOYA CARMEN	157462
2-51	RODRIGUEZ RICARDO & ROSEMARY	197633
2-52	MUNOZ MIGUEL & CONSUELO T	157454
2-53	DIAZ GUADALUPE	200229
2-54	TAYLOR BARBARA J	148695
2-55	YOUNG HARVEY	148694
2-56	HAND REBECCA ANN	157453
2-57	GREENWELL JEAN ANNETTE	157461
2-58	LONG ROCKY WAYNE	148693
2-59	LONG ROCKY WAYNE	148703
2-60	TRUJILLO JOSE LUIS	148696
2-61	VILLANUEVA LUCILO	148697
2-62	GREGORIO PEDRO G&M CARMEN	148687
2-63	HUNTER LORINDA R & JAMES B	205000
2-64	SMITH SHAUN S & CHRISTINE OTTS	148765
2-65	BAILEY SHARON	148764
2-66	SANCHEZ JOSE LUIS & J ISABEL	148775
2-67	MOSS BILLY JERROLD	198971
2-68	LOPEZ FERNANDO	148876
2-69	ALMANZA HECTOR & MARIE	220650
2-70	VASQUEZ GREGORIO & MARY C/S	148865
2-71	VASQUEZ GREGORIO & MARY	148866
2-72	SCHWING THOMAS M & PAULETTE D	148875
2-73	EVANS WESLEY A	148873
2-74	HORN ROBERT J JR & DEBRA J	148872
2-75	HERNANDEZ FILIBERTO ETAL	148871
2-76	CASTILLO MAXIMIANO & CANDYDA	148882
2-77	TRUJILLO JOSE	155887
2-78	FLORES MIGUEL A	15588
2-79	BOYD ELIZABETH D	155878
2-80	FLORES MIGUEL A	155879

NUMBER	OWNER NAME	PARCEL NUMBER
2-81	ALVIDREZ MARIA & LUCINA MOYA	155880
2-82	REYES ROSAURA	155873
2-83	MUDD CHARLOTTE	197507
2-84	DAVILA ADAN	155882
2-85	RAMIREZ JUAN & MARIA D	155881
2-86	BOLES FRANCIS O	157460
2-87	BLANTON BENNY	157459
2-88	JURADO AMALIO S & EMMA R	157458
2-89	BERNHARD CATHERINE	157467
2-90	HILZ LANI M	157466
2-91	ALNACHAWATI MWAFAK	157465
2-92	DURBIN ANNA J	157464
2-93	DURBIN MARK A JR	157463
2-94	MEDINA ISRAEL	155806
2-95	MANZANO HERMINIO	155807
2-96	TARRANT CO. HOUSING PARTNERSHIP INC	155808
2-97	RAMIREZ EMILIANO	155809
2-98	CLEMENTS RICHARD & NANCY	155810
2-99	LOPEZ LUIS & GRACIE	155801
2-100	MILLER ARLON J	193170
2-101	MOSS TERESA EVONNE	148774
2-102	MILLER ARLON J	193171
2-103	DELASIERRA FRANCISCO	193169
2-104	GARZA ADAM & RENE	193178
2-105	GARZA ADAM & RENE	203097
2-106	ROSS JOHN G & BARBARA M	193177
2-107	COUNTY LINE CLASSICS & AUTO	193172
2-108	RIVERFRONT PROPERTIES LP	181519
2-109	LMCARLEY, LLC	207464
2-110	GARZA JESUS & MARIA T TRUSTEES	147772
2-111	LEWIS ROMEO H JR	147773
2-112	ROMAN DORA E	147757
2-113	MARWITZ RAYMANN A & VELMA R	188566
2-114	HOUSE OF PRAISE MINISTRIES INC	147358
2-115	MANN PAUL	219875
2-116	MANN PAUL	193183
2-117	LEWIS GEORGE A JR &	193174

FR009EB01-1
PI Sta = 4102+15.71
Δ = 2° 01′ 32.94" (RT)
D° = 0° 42′ 58.31"
T = 141.44
L = 282.86
R = 8,000.00
PC Sta = 4100+74.26
PRC Sta = 4103+57.12

FR009EB01-2
PI Sta = 4104+98.56
Δ = 2° 01′ 32.94" (LT)
D° = 0° 42′ 58.31"
T = 141.44
L = 282.86
R = 8,000.00
PRC Sta = 4103+57.12
PT Sta = 4106+39.98

FR009EB01-3
PI Sta = 4116+75.09
Δ = 2° 01′ 32.94" (LT)
D° = 0° 42′ 58.31"
T = 141.44
L = 282.86
R = 8,000.00
PC Sta = 4115+33.65
PRC Sta = 4118+16.51

FR009EB01-4
PI Sta = 4119+57.95
Δ = 2° 01′ 32.94" (RT)
D° = 0° 42′ 58.31"
T = 141.44
L = 282.86
R = 8,000.00
PRC Sta = 4118+16.51
PT Sta = 4120+99.36

FR009EB01-5
PI Sta = 4148+16.83
Δ = 39° 20′ 03.12" (LT)
D° = 1° 12′ 26.99"
T = 1,695.88
L = 3,257.50
R = 4,745.00
PC Sta = 4131+20.95
PT Sta = 4163+78.45

FR009EB01-6
PI Sta = 4195+24.29
Δ = 47° 00′ 42.29" (RT)
D° = 1° 17′ 48.74"
T = 1,921.54
L = 3,625.01
R = 4,418.00
PC Sta = 4176+02.76
PT Sta = 4212+27.77

FR009WB01-1
PI Sta = 5144+85.01
Δ = 34° 47′ 03.17" (LT)
D° = 1° 18′ 56.28"
T = 1,364.12
L = 2,643.92
R = 4,355.00
PC Sta = 5131+20.89
PT Sta = 5157+64.81

FR009WB01-2
PI Sta = 5195+31.08
Δ = 42° 27′ 42.34" (RT)
D° = 1° 13′ 25.48"
T = 1,818.93
L = 3,469.82
R = 4,682.00
PC Sta = 5177+12.15
PT Sta = 5211+81.97

NOTES:
1. EXISTING FEATURES WERE NOT FIELD SURVEYED. SCHEMATICS ARE BASED ON AERIAL SUVEYS DATED DECEMBER 2013 AND RECORD PLANS.
2. SUPERELEVATION AXIS OF ROTATION IS ABOUT THE PGL.
3. DIMENSIONS ARE TO THE EDGE OF PAVEMENT OR NOMINAL FACE OF CURB, RAIL, BARRIER, OR WALL (UNLESS NOTED OTHERWISE).
4. APPROXIMATE 100 YEAR FLOODPLAIN LIMITS ARE BASED UPON FEMA Q3 DATA, 2017 (FIRM PANELS 48139C-2 AND 48139C-17)
5. OWNERSHIP INFORMATION SHOWN ON SCHEMATIC OBTAINED FROM DALLAS COUNTY APPRAISAL DISTRICT (20 MAY 2016) AND ELLIS COUNTY APPRAISAL DISTRICT (9 SEPT 2015).
6. EXISTING CULVERT LOCATIONS, SIZE, AND ELEVATIONS OBTAINED FROM RECORD DOCUMENTS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
7. ADA RAMPS ARE NOT DEPICTED IN THE PLAN.
8. EXISTING DRIVEWAYS WILL REMAIN UNLESS IT IS DETERMINED DURING DETAILED DESIGN STAGE AND COORDINATION WITH THE LOCAL GOVERNMENT THAT THE DRIVEWAY IS A SAFETY ISSUE AND/OR IS LOCATED WITHIN ACCESS DENIAL LIMITS SHOWN.
9. FINAL DRIVEWAY LOCATIONS TO BE DETERMINED IN THE PS&E DEVELOPMENT PHASE.
10. BUILDINGS ARE SHOWN AS POTENTIAL DISPLACEMENT IF THE PROPOSED ROW PHYSICALLY INTERSECTS THE EXISTING BUILDING STRUCTURE.
11. CURBS ON THE FRONTAGE ROAD AND CROSS STREETS ARE TYPE II (UNLESS NOTED OTHERWISE).
12. CONVENTIONAL ROADWAY SIGNAGE (SMALL SIGNS) ARE NOT SHOWN AND WILL BE DEVELOPED DURING THE PS&E PHASE OF THE PROJECT.
13. DESIGN SCHEMATIC SHOWN HEREIN IS FOR PHASE I AND II. PRELIMINARY SCHEMATIC OF ULTIMATE DESIGN IS PROVIDED FOR ROW ASCERTAINMENT AND SHALL BE FURTHER DEVELOPED IN THE FUTURE (BY OTHERS).
14. EXISTING OVERHEAD POWER LINE CROSSINGS SHOWN. COORDINATION WITH UTILITY PROVIDER WILL BE REQUIRED DURING DETAILED DESIGN TO ESTABLISH APPROPRIATE VERTICAL CLEARANCES.
15. VERTICAL CLEARANCES AT RAILROAD CROSSINGS WERE DETERMINED FROM PROVIDED TOPOGRAPHICAL DATA.
16. EXISTING ROW IS APPROXIMATE AND BASED ON AVAILABLE AS-BUILT PLANS.

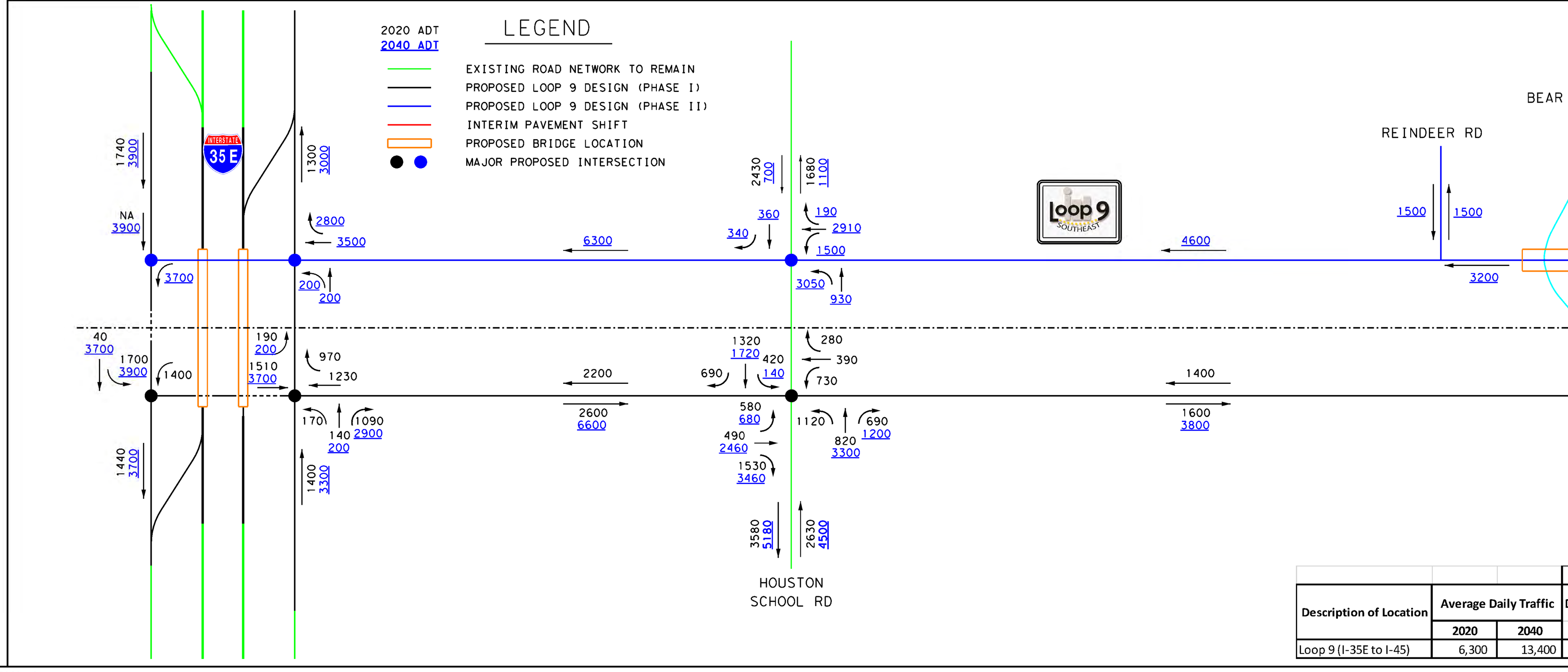
PHASED CONSTRUCTION APPROACH

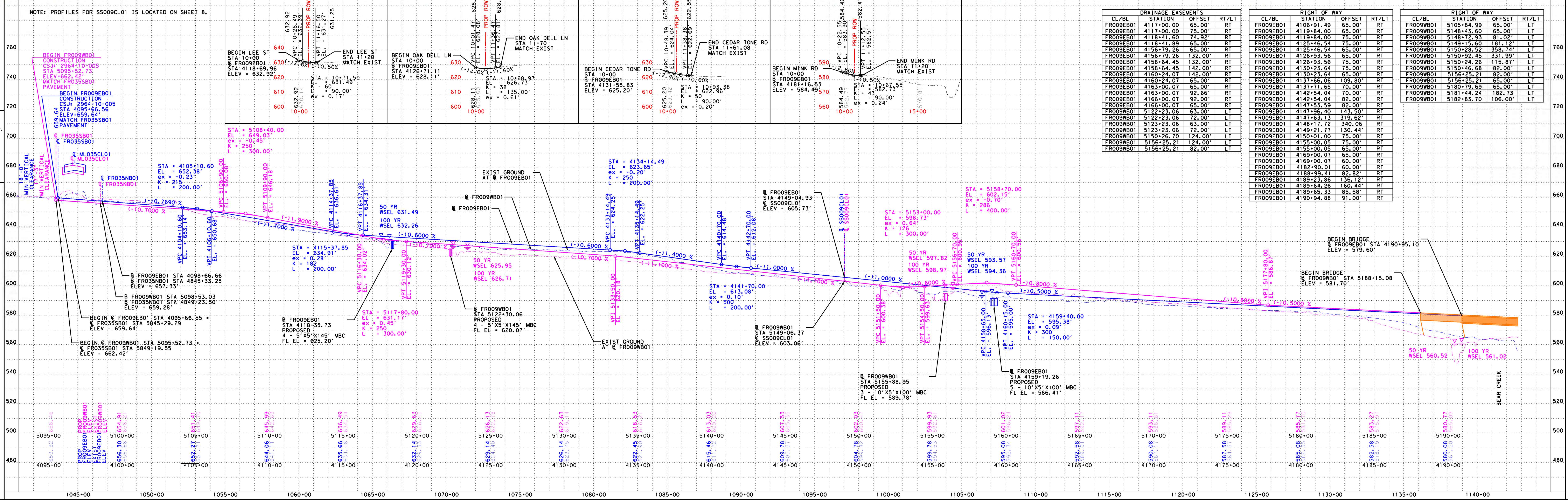
PHASE 1: CONSTRUCT ONE TWO-WAY FRONTAGE ROAD AND ACQUIRE THE ENTIRE PROPOSED ROW FOR THE ULTIMATE FACILITY.

PHASE 2: CONSTRUCT THE SECOND FRONTAGE ROAD AND CONVERT THE EXISTING FRONTAGE ROAD'S TRAFFIC DIRECTION TO ONE WAY.

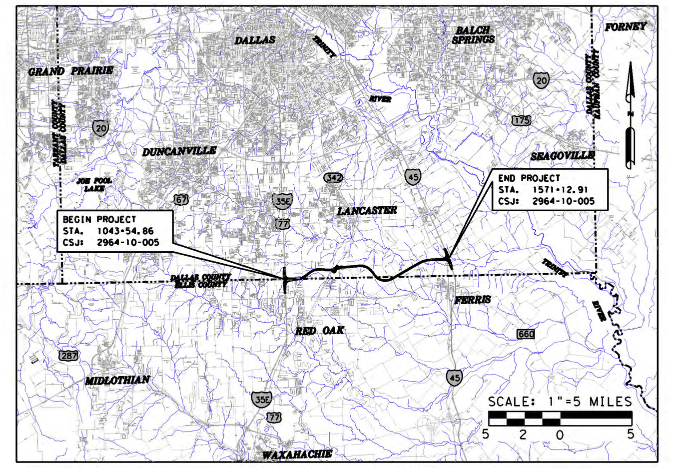
PHASE 3: FUTURE; CONSTRUCT ISOLATED GRADE SEPARATIONS AT SPECIFIC HIGH-VOLUME INTERSECTIONS.

PHASE 4: ULTIMATE, FUTURE; CONSTRUCT CONTINUOUS MAINLANES, RAMPS AND DIRECT CONNECTORS IN BOTH DIRECTIONS.





STATE OF TEXAS
DEPARTMENT OF TRANSPORTATION
DALLAS DISTRICT
DISTRICT ENGINEER, JAMES K. SELMAN, P.E.
STATE LOOP 9 DESIGN SCHEMATIC
FROM: IH 35E
TO: IH 45
CITIES OF LANCASTER, RED OAK, FERRIS AND WILMER
DALLAS AND ELLIS COUNTIES
CSJ: 2964-10-005
FUNCTIONAL CLASSIFICATION:
LOOP 9: RURAL FREEWAY
IH 35E: URBAN FREEWAY
IH 45: RURAL FREEWAY
LOOP 9, IH 35E, AND IH 45 DESIGN SPEED
MAIN LANES: 70 MPH
FRONTAGE ROADS: 50 MPH
RAMPS: 50 MPH
BUSINESS 45: 50 MPH
SH 342: 50 MPH
HOUSTON SCHOOL RD: 40 MPH
NAKOMIS RD: 30 MPH
REINDEER RD: 30 MPH
LOCAL SIDE STREETS: 30 MPH
JUG HANDLES: 25 MPH
U-TURNS: 25 MPH
E MAX: 6%
PROJECT LENGTH: 10.00 MILES
PROJECT DESCRIPTION:
CONSTRUCT 0 TO 2 (ULTIMATE 6) LANE FRONTAGE ROADS.


LOCATION MAP
HORIZ. 1"=200'
VERT. 1"=20'
PHASE I & II
PRELIMINARY
THIS PRINT IS FURNISHED FOR INFORMATION ONLY. THE PLAN INFORMATION OR OTHER DATA SHOWN HEREIN IS SUBJECT TO CHANGE AND MUST NOT BE CONSTRUED AS FINAL. NOT FOR CONSTRUCTION, BIDDING OR PERMITTING
ATKINS
TBPE REG. #F-474
ROLL 2 OF 8
MARCH 2017

STATE OF TEXAS
DEPARTMENT OF TRANSPORTATION
DALLAS DISTRICT

DISTRICT ENGINEER, JAMES K. SELMAN, P.E.

STATE LOOP 9
DESIGN SCHEMATIC

FROM: IH 35E

TO: IH 45

CITIES OF LANCASTER, RED OAK, FERRIS AND WILMER

DALLAS AND ELLIS COUNTIES

CSJ: 2964-10-005

FUNCTIONAL CLASSIFICATION:
LOOP 9: RURAL FREEWAY
IH 35E: URBAN FREEWAY
IH 45: RURAL FREEWAY

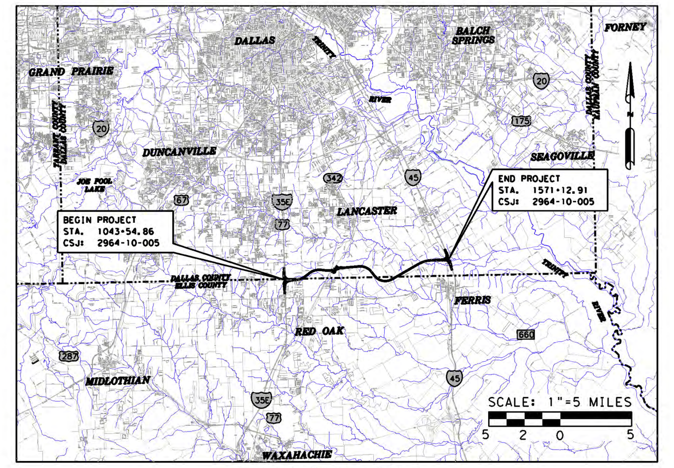
LOOP 9, IH 35E, AND IH 45 DESIGN SPEED

MAIN LANES:	70 MPH
FRONTAGE ROADS:	50 MPH
RAMPS:	50 MPH
BUSINESS 45:	50 MPH
SH 342:	50 MPH
HOUSTON SCHOOL RD:	40 MPH
NAKOMIS RD:	30 MPH
REINDEER RD:	30 MPH
LOCAL SIDE STREETS:	30 MPH
JUG HANDLES:	25 MPH
U-TURNS:	25 MPH

E MAX: 6%

PROJECT LENGTH: 10.00 MILES

PROJECT DESCRIPTION:
CONSTRUCT 0 TO 2 (ULTIMATE 6) LANE FRONTAGE ROADS.



LOCATION MAP

TEXAS COUNTY MAP
DALLAS DISTRICT

HORIZ. 1"=200'
VERT. 1"=20'

PHASE I & II

PRELIMINARY

THIS PRINT IS FURNISHED FOR INFORMATION ONLY. THE PLAN INFORMATION OR OTHER DATA SHOWN HEREIN IS SUBJECT TO CHANGE AND MUST NOT BE CONSTRUED AS FINAL. NOT FOR CONSTRUCTION, BIDDING OR PERMITTING

BY J. BRYAN HODGES, P.E. 68013
ATKINS
DATE 5/22/2017

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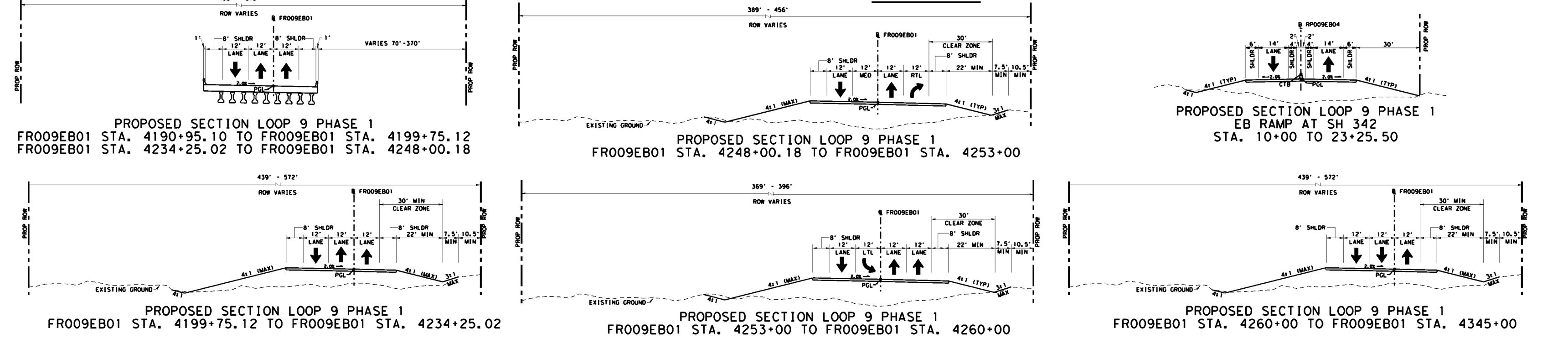
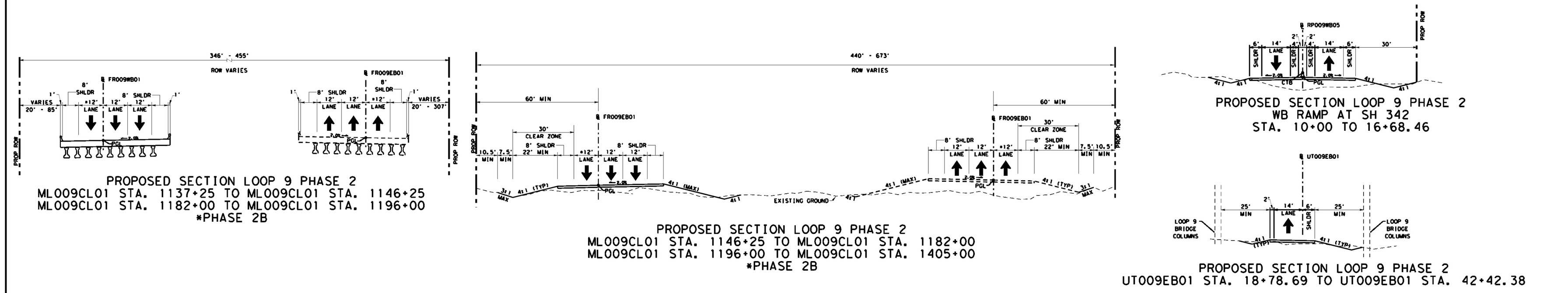
ATKINS
18383 PRESTON RD. SUITE #500
DALLAS, TEXAS 75252
TEL: 1-972-818-7275
FAX: 1-972-380-2609
TBPE REG. #F-474

ROLL 3 OF 8
MARCH 2017

PHASE 1



PHASE 2



RIGHT OF WAY			
CL/BL	STATION	OFFSET	RT/LT
FR009EB01	4199+75.12	91.00'	RT
FR009EB01	4207+17.62	65.00'	RT
FR009EB01	4212+21.62	65.00'	RT
FR009EB01	4212+61.40	91.20'	RT
FR009EB01	4212+94.69	180.98'	RT
FR009EB01	4213+67.22	170.49'	RT
FR009EB01	4213+63.48	144.60'	RT
FR009EB01	4214+07.74	120.32'	RT
FR009EB01	4217+28.97	72.00'	RT
FR009EB01	4220+00.15	72.00'	RT
FR009EB01	4220+00.15	82.00'	RT
UT009EB01	16+42.32	56.00'	RT
UT009EB01	28+57.26	56.00'	RT
FR009EB01	4239+84.71	41.00'	RT
FR009EB01	4342+20.86	41.00'	RT
FR009EB01	4242+99.92	147.57'	RT
RP009EB04	10+95.94	56.00'	RT
RP009EB04	22+38.64	56.00'	RT
FR009EB01	4253+74.33	75.00'	RT
FR009EB01	4263+47.99	75.00'	RT
FR009EB01	4263+47.99	60.00'	RT
FR009EB01	4226+02.41	60.00'	RT
FR009EB01	4266+06.87	70.00'	RT
FR009EB01	4266+80.68	84.71'	RT
FR009EB01	4267+29.29	65.00'	RT
FR009EB01	4287+82.60	65.00'	RT
FR009EB01	4287+82.60	82.00'	RT
FR009EB01	4293+17.60	82.00'	RT
FR009EB01	4293+57.60	127.75'	RT
FR009EB01	4293+94.60	127.75'	RT
FR009EB01	4294+34.60	75.00'	RT

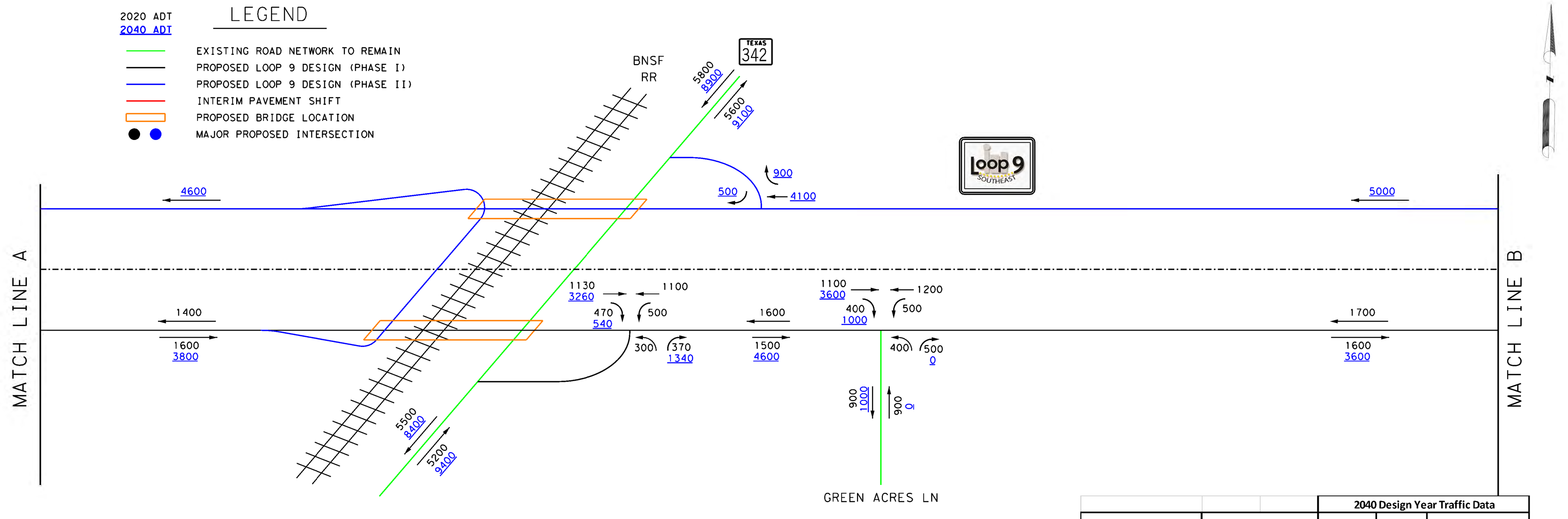
RIGHT OF WAY			
CL/BL	STATION	OFFSET	RT/LT
FR009WB01	5197+43.10	106.00'	LT
FR009WB01	5209+00.12	70.00'	LT
FR009WB01	5218+00.12	70.00'	LT
FR009WB01	5218+00.12	75.00'	LT
UT009EB01	44+85.35	49.00'	RT
UT009EB01	35+11.13	49.00'	RT
FR009WB01	5238+26.89	145.46'	LT
FR009WB01	5239+27.35	41.00'	LT
FR009WB01	5244+93.64	41.00'	LT
RP009WB05	16+31.46	81.00'	RT
RP009WB05	16+06.46	56.00'	RT
RP009WB05	10+82.92	54.67'	RT
FR009WB01	5258+66.14	75.00'	LT
FR009WB01	5264+79.82	75.00'	LT
FR009WB01	5264+79.82	65.00'	LT
FR009WB01	5284+00.19	65.00'	LT
FR009WB01	5284+00.19	75.00'	LT
FR009WB01	5292+45.04	75.00'	LT
FR009WB01	5292+70.41	84.00'	LT
FR009WB01	5293+30.41	84.00'	LT
FR009WB01	5293+68.91	77.00'	LT

CONTROL OF ACCESS				
	CL/BL	STATION	OFFSET	RT/LT
BEGIN	FR009EB01	4202+55.29	76.96'	RT
END	FR009EB01	4206+23.92	66.28'	RT
BEGIN	FR009EB01	4219+60.74	72.00'	RT
END	FR009EB01	4227+57.22	96.32'	RT
BEGIN	FR009EB01	4239+84.71	41.00'	RT
END	FR009EB01	4242+20.86	41.00'	RT
BEGIN	FR009EB01	4243+00.06	148.48'	RT
END	FR009EB01	4257+43.06	75.00'	RT
BEGIN	FR009EB01	4271+72.00	65.00'	RT
END	FR009EB01	4275+12.56	65.00'	RT
BEGIN	FR009EB01	4288+92.60	82.00'	RT
END	FR009EB01	4293+57.60	127.75'	RT
BEGIN	FR009EB01	4293+94.60	127.75'	RT
END	FR009EB01	4298+59.60	75.00'	RT
BEGIN	FR009WB01	5200+53.15	95.94'	LT
END	FR009WB01	5208+74.22	70.75'	LT
BEGIN	FR009WB01	5221+91.83	75.00'	LT
END	FR009WB01	5229+96.62	89.35'	LT
BEGIN	FR009WB01	5239+27.35	41.00'	LT
END	FR009WB01	5244+93.64	41.00'	LT
BEGIN	FR009WB01	5256+53.93	647.05'	LT
END	FR009WB01	5262+07.81	75.00'	LT
BEGIN	FR009WB01	5265+40.51	65.00'	LT
END	FR009WB01	5274+62.33	65.00'	LT
BEGIN	FR009WB01	5288+16.91	75.00'	LT
END	FR009WB01	5292+70.41	84.00'	LT
BEGIN	FR009WB01	5293+30.41	84.00'	LT
END	FR009WB01	5297+83.91	77.00'	LT

NUMBER	OWNER NAME	PARCEL NUMBER
3-1	COFFMAN INVESTMENTS LP &	65128478010030000
3-2	NAVA JAVIER & VENANCIA	65074617010040100
3-3	NAVA JAVIER & VENANCIA	36088250010010000
3-4	BARRIENTOS MIGUEL	65074617010040200
3-5	URBINA RICARDO & FLORIBERTA	65074617010040300
3-6	ESEQUIEL SUAREZ JR & BLANCA	65074617010040000
3-7	ESEQUIEL SUAREZ JR & BLANCA	65074617010190000
3-8	LTX PROPERTIES LLC	65074617010010100
3-9	CITY LANCLAND LTD PS	65074617010060100
3-10	COFFMAN INVESTMENTS ETAL	65074617010030100
3-11	COFFMAN INVESTMENTS ETAL	65074617010180000
3-12	CTMGT BEAR CREEK LLC	65012083010020200
3-13	CTMGT BEAR CREEK LLC	65012083010020100
3-14	CTMGT BEAR CREEK LLC	65012083010020000
3-15	BALDERAS JOSE	60065500010130000
3-16	BALDERAS JOSE	60065500010140000
3-17	LEWIS MICHAEL & WANDA	60065500010150000
3-18	HERRIAGE BOBBY W ETAL	60065500010160000
3-19	ENGLAND WAYNE	60065500010170000
3-20	RICHARDSON BILL R	60065500010180000
3-21	ROSELANCLAND LTD PS	65074617010060000
3-22	HILL LEE ANN	65074617010080000
3-23	BRADSHAW JO RIFE & GARY MACK	65074617010100100
3-24	ADAMS JIMMY N & CARLOS	65128880010090000
3-25	BRADSHAW GARY M &	65128880010060000
3-26	BRADSHAW JO RIFE & GARY MACK	65128880010070000
3-27	BRADSHAW JO RIFE & GARY MACK	65128880010070200
3-28	REYEZ FRANSISCO	65128880010090100
3-29	SCARBOROUGH R D EST OF	65128880010040100
3-30	MOFFETT JAMES W & MARILYN	65128880010030400

FR009EB01-6	FR009EB01-7	FR009EB01-8	FR009WB01-2	FR009WB01-3	FR009WB01-4
PI Sta = 4195+24.29	PI Sta = 4240+33.77	PI Sta = 4267+26.06	PI Sta = 5195+31.08	PI Sta = 5239+27.15	PI Sta = 5270+29.07
Δ = 47° 00' 42.29" (LT)	Δ = 25° 56' 50.85" (LT)	Δ = 15° 52' 03.60" (RT)	Δ = 42° 27' 42.34" (RT)	Δ = 25° 56' 50.85" (LT)	Δ = 15° 52' 03.60" (RT)
D° = 1° 17' 48.74"	D° = 1° 13' 25.48"	D° = 0° 58' 16.01"	D° = 1° 13' 25.48"	D° = 1° 17' 48.74"	D° = 0° 56' 21.39"
T = 1,921.54	T = 1,078.66	T = 822.24	T = 1,818.93	T = 1,017.84	T = 850.12
L = 3,625.01	L = 2,120.33	L = 1,633.96	L = 3,469.82	L = 2,000.77	L = 1,689.35
R = 4,418.00	R = 4,682.00	R = 5,900.00	R = 4,682.00	R = 4,418.00	R = 6,100.00
PC Sta = 4176+02.76	PC Sta = 4229+55.11	PC Sta = 4259+03.81	PC Sta = 5177+12.15	PC Sta = 5229+09.30	PC Sta = 5261+78.95
PT Sta = 4212+27.77	PT Sta = 4250+75.44	PT Sta = 4275+37.78	PT Sta = 5211+81.97	PT Sta = 5249+10.08	PT Sta = 5278+68.30

RP009WB05-1	UT009EB01-1	UT009EB01-2	UT009EB01-3	UT009EB01-4	UT009EB01-5	RP009EB04-1	RP009EB04-2
PI Sta = 13+10.23	PI Sta = 17+53.52	PI Sta = 23+78.10	PI Sta = 29+41.35	PI Sta = 34+63.38	PI Sta = 42+98.32	PI Sta = 12+51.76	PI Sta = 21+06.16
Δ = 35° 41' 37.64" (LT)	Δ = 6° 21' 53.92" (LT)	Δ = 13° 43' 21.46" (LT)	Δ = 62° 20' 43.19" (LT)	Δ = 121° 02' 40.67" (LT)	Δ = 10° 44' 51.40" (LT)	Δ = 42° 07' 38.82" (LT)	Δ = 107° 58' 47.71" (LT)
D° = 9° 46' 38.77"	D° = 6° 21' 53.92"	D° = 2° 51' 53.24"	D° = 41° 13' 11.95"	D° = 41° 13' 11.95"	D° = 2° 51' 53.24"	D° = 11° 27' 32.96"	D° = 21° 03' 52.65"
T = 188.6732	T = 111.2042	T = 240.6565	T = 84.0908	T = 245.91	T = 188.13	T = 192.57	T = 374.24
L = 365.06	L = 222.1797	L=479.01	L =151.25	L = 293.66	L = 375.16	L = 367.63	L = 512.61
R = 586.00	R = 2,000.00	R = 2,000.00	R = 139.00	R = 139.00	R = 2,000.00	R = 500.00	R = 272.00
PC Sta = 11+21.55	PC Sta = 16+42.32	PC Sta = 21.+37.44	PC Sta = 28+57.26	PC Sta = 32+17.47	PC Sta = 41+10.19	PC Sta = 10+59.19	PC Sta = 17+31.93
PT Sta = 14+86.61	PT Sta = 18+64.50	PT Sta = 26+16.45	PT Sta = 30+08.51	PT Sta = 35+11.13	PT Sta = 44+85.35	PT Sta = 14+26.82	PT Sta = 22+44.54



Description of Location	Average Daily Traffic		2040 Design Year Traffic Data			
			Directional	K Factor	Percent Trucks	
	2020	2040	Factor		ADT	DHV
Loop 9 (I-35E to I-45)	6,300	13,400	55%	11.7	5	3.5

PLAN LEGEND
- PROPOSED ℄
- PROPOSED ROW
- EXISTING ROW
- FUTURE ROW
- CONTROL OF ACCESS ROW
- PERMANENT DRAINAGE EASEMENT
- PROPERTY LINES
- CONSTRUCTION EASEMENT
- COUNTY LINE
- PROPOSED PHASE I ROADWAY
- PROPOSED PHASE II ROADWAY
- FUTURE IMPROVEMENTS (BY OTHERS)
- PROPOSED BRIDGE PHASE 1
- PROPOSED BRIDGE PHASE II
- PHASE I TEMPORARY ACCESS
- FLOOD PLAIN
- TRANSMISSION LINES
- PHASE I REMOVAL
- PHASE II REMOVAL

PROFILE LEGEND
- PROPOSED PGL AT EBFR
- EXISTING GROUND AT EBFR
- PROPOSED PGL AT WBFR
- EXISTING GROUND AT WBFR

TYPICAL SECTION LEGEND
- EXISTING LANE DIRECTION
- PROPOSED LANE DIRECTION
- EXISTING CONSTRUCTION
- PROPOSED CONSTRUCTION

NOTES:
1. EXISTING FEATURES WERE NOT FIELD SURVEYED. SCHEMATICS ARE BASED ON AERIAL SUVEYS DATED DECEMBER 2013 AND RECORD PLANS.
2. SUPERELEVATION AXIS OF ROTATION IS ABOUT THE PGL.
3. DIMENSIONS ARE TO THE EDGE OF PAVEMENT OR NOMINAL FACE OF CURB, RAIL, BARRIER, OR WALL (UNLESS NOTED OTHERWISE).
4. APPROXIMATE 100 YEAR FLOODPLAIN LIMITS ARE BASED UPON FEMA Q3 DATA, 2017 (FIRM PANELS 48139C-2 AND 48139C-17)
5. OWNERSHIP INFORMATION SHOWN ON SCHEMATIC OBTAINED FROM DALLAS COUNTY APPRAISAL DISTRICT (20 MAY 2016) AND ELLIS COUNTY APPRAISAL DISTRICT (9 SEPT 2015).
6. EXISTING CULVERT LOCATIONS, SIZE, AND ELEVATIONS OBTAINED FROM RECORD DOCUMENTS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
7. ADA RAMPS ARE NOT DEPICTED IN THE PLAN.
8. EXISTING DRIVEWAYS WILL REMAIN UNLESS IT IS DETERMINED DURING DETAILED DESIGN STAGE AND COORDINATION WITH THE LOCAL GOVERNMENT THAT THE DRIVEWAY IS A SAFETY ISSUE AND/OR IS LOCATED WITHIN ACCESS DENIAL LIMITS SHOWN.
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15. VERTICAL CLEARANCES AT RAILROAD CROSSINGS WERE DETERMINED FROM PROVIDED TOPOGRAPHICAL DATA.
16. EXISTING ROW IS APPROXIMATE AND BASED ON AVAILABLE AS-BUILT PLANS.

PHASED CONSTRUCTION APPROACH

PHASE 1: CONSTRUCT ONE TWO-WAY FRONTAGE ROAD AND ACQUIRE THE ENTIRE PROPOSED ROW FOR THE ULTIMATE FACILITY.

PHASE 2: CONSTRUCT THE SECOND FRONTAGE ROAD AND CONVERT THE EXISTING FRONTAGE ROAD'S TRAFFIC DIRECTION TO ONE WAY.

PHASE 3: FUTURE; CONSTRUCT ISOLATED GRADE SEPARATIONS AT SPECIFIC HIGH-VOLUME INTERSECTIONS.

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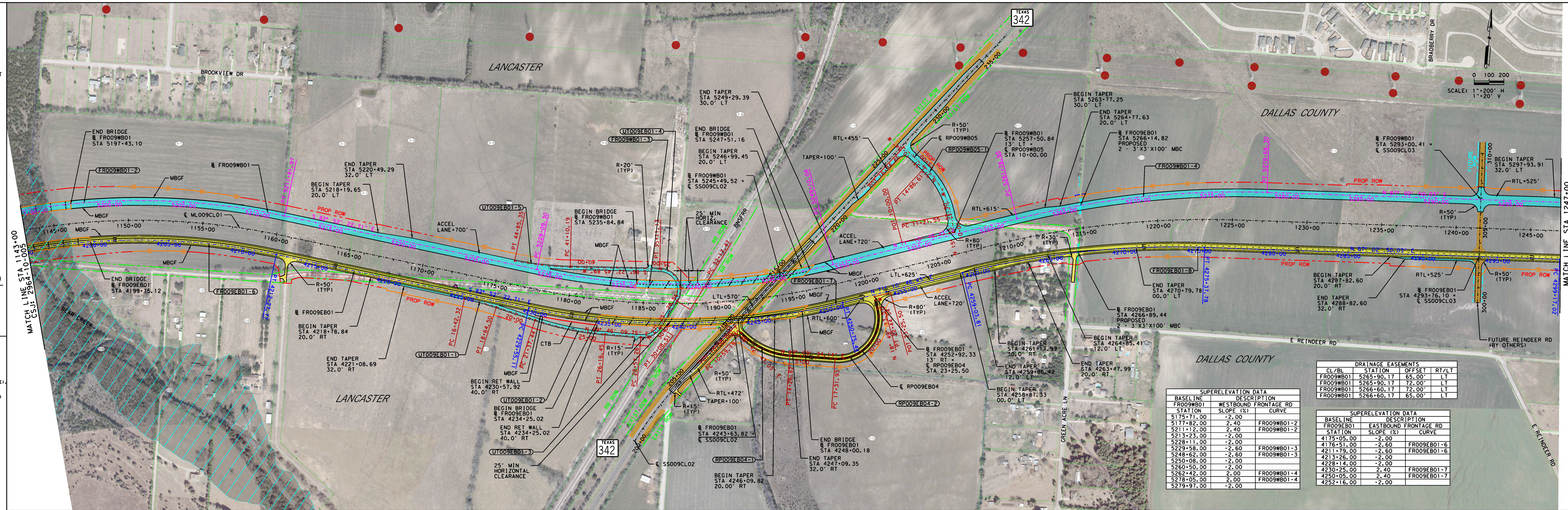
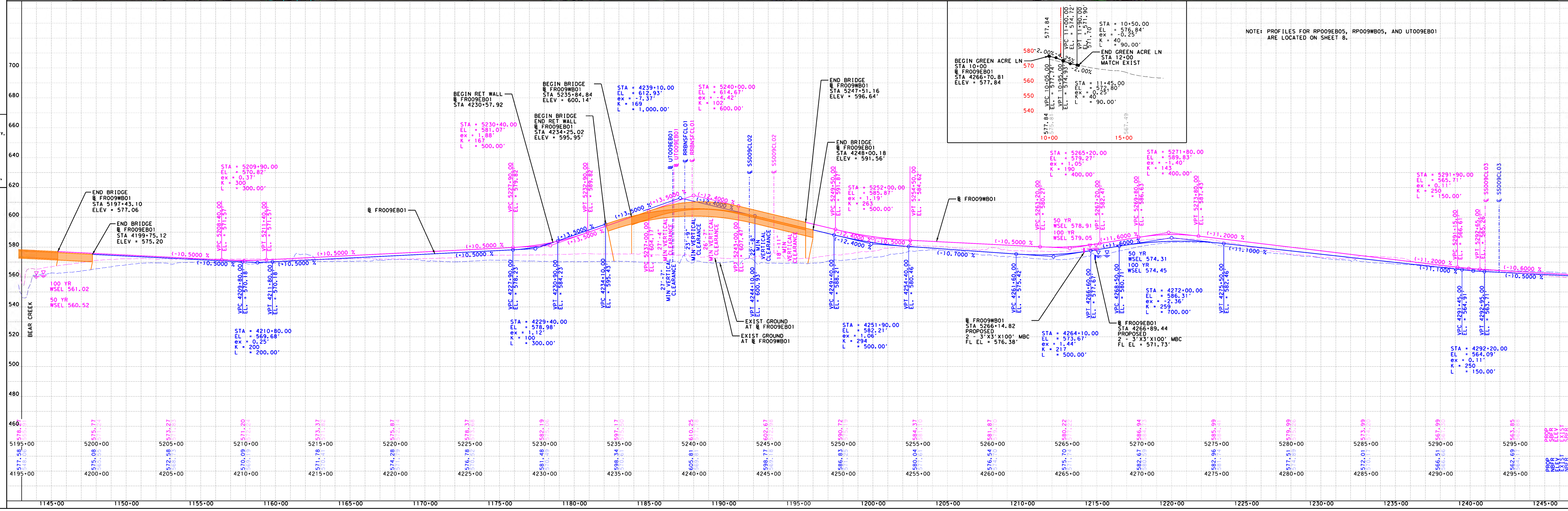


SUPERELEVATION DATA		
BASELINE	DESCRIPTION	
FR009WB01	WESTBOUND FRONTAGE RD	
STATION	SLOPE (%)	CURVE
5175+71.00	-2.00	
5177+82.00	2.40	FR009WB01-2
5211+12.00	2.40	FR009WB01-2
5213+23.00	-2.00	
5228+11.00	-2.00	
5229+58.00	-2.60	FR009WB01-3
5248+62.00	-2.60	FR009WB01-3
5250+08.00	-2.00	
5260+50.00	-2.00	
5262+42.00	2.00	FR009WB01-4
5278+05.00	2.00	FR009WB01-4
5279+97.00	-2.00	

DRAINAGE EASEMENTS			
CL/BL	STATION	OFFSET	RT/LT
FR009WB01	5265+90.17	65.00'	LT
FR009WB01	5265+90.17	72.00'	LT
FR009WB01	5266+60.17	72.00'	LT
FR009WB01	5266+60.17	65.00'	LT

SUPERELEVATION DATA		
BASELINE	DESCRIPTION	
FR009EB01	EASTBOUND FRONTAGE RD	
STATION	SLOPE (%)	CURVE
4175+05.00	-2.00	
4176+51.00	-2.60	FR009EB01-6
4211+79.00	-2.60	FR009EB01-6
4213+26.00	-2.00	
4228+14.00	-2.00	
4230+25.00	2.40	FR009EB01-7
4250+05.00	2.40	FR009EB01-7
4252+16.00	-2.00	



STATE OF TEXAS
DEPARTMENT OF TRANSPORTATION
DALLAS DISTRICT
DISTRICT ENGINEER, JAMES K. SELMAN, P.E.
STATE LOOP 9
DESIGN SCHEMATIC
FROM: IH 35E
TO: IH 45
CITIES OF LANCASTER, RED OAK, FERRIS AND WILMER
DALLAS AND ELLIS COUNTIES
CSJ: 2964-10-005
FUNCTIONAL CLASSIFICATION:
LOOP 9: RURAL FREEWAY
IH 35E: URBAN FREEWAY
IH 45: RURAL FREEWAY
LOOP 9, IH 35E, AND IH 45 DESIGN SPEED
MAIN LANES: 70 MPH
FRONTAGE ROADS: 50 MPH
RAMPS: 50 MPH
BUSINESS 45: 50 MPH
SH 342: 50 MPH
HOUSTON SCHOOL RD: 40 MPH
NAKOMIS RD: 30 MPH
REINDEER RD: 30 MPH
LOCAL SIDE STREETS: 30 MPH
JUG HANDLES: 25 MPH
U-TURNS: 25 MPH
E MAX: 6%
PROJECT LENGTH: 10.00 MILES
PROJECT DESCRIPTION:
CONSTRUCT 0 TO 2 (ULTIMATE 6) LANE FRONTAGE ROADS.
LOCATION MAP
TEXAS COUNTY MAP
DALLAS DISTRICT
HORIZ. 1"=200'
VERT. 1"=20'
PHASE I & II
PRELIMINARY
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ATKINS
18383 PRESTON RD. SUITE #500
DALLAS, TEXAS 75252
TEL: 1-972-818-7275
FAX: 1-972-380-2609
TBPE REG. #F-474
ROLL 3 OF 8
MARCH 2017

STATE OF TEXAS
DEPARTMENT OF TRANSPORTATION
DALLAS DISTRICT

DISTRICT ENGINEER, JAMES K. SELMAN, P.E.

STATE LOOP 9 DESIGN SCHEMATIC

FROM: IH 35E

TO: IH 45

CITIES OF LANCASTER, RED OAK, FERRIS AND WILMER

DALLAS AND ELLIS COUNTIES

CSJ: 2964-10-005

FUNCTIONAL CLASSIFICATION:
LOOP 9: RURAL FREEWAY
IH 35E: URBAN FREEWAY
IH 45: RURAL FREEWAY

LOOP 9, IH 35E, AND IH 45 DESIGN SPEED

MAIN LANES:	70 MPH
FRONTAGE ROADS:	50 MPH
RAMPS:	50 MPH
BUSINESS 45:	50 MPH
SH 342:	50 MPH
HOUSTON SCHOOL RD:	40 MPH
NAKOMIS RD:	30 MPH
REINDEER RD:	30 MPH
LOCAL SIDE STREETS:	30 MPH
JUG HANDLES:	25 MPH
U-TURNS:	25 MPH

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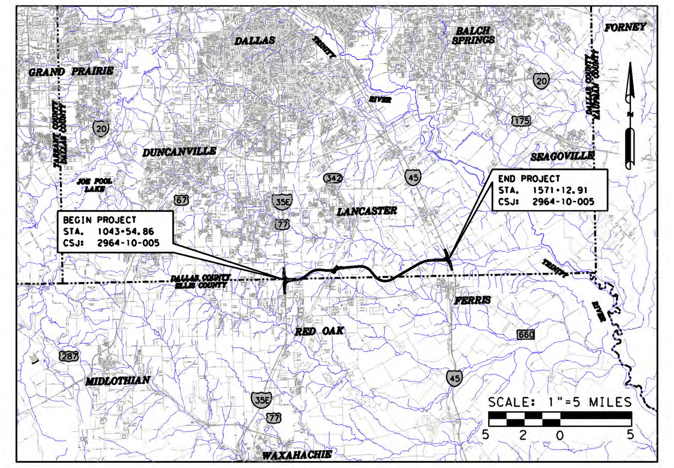
CONSTRUCT 0 TO 2 (ULTIMATE 6) LANE FRONTAGE ROADS.



LOCATION MAP

TEXAS COUNTY MAP
DALLAS DISTRICT

HORIZ. 1"=200'
VERT. 1"=20'

PHASE I & II

PRELIMINARY

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BY J. BRYAN HODGES, P.E. 68013
ATKINS
DATE 5/22/2017

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ATKINS
18383 PRESTON RD. SUITE #500
DALLAS, TEXAS 75252
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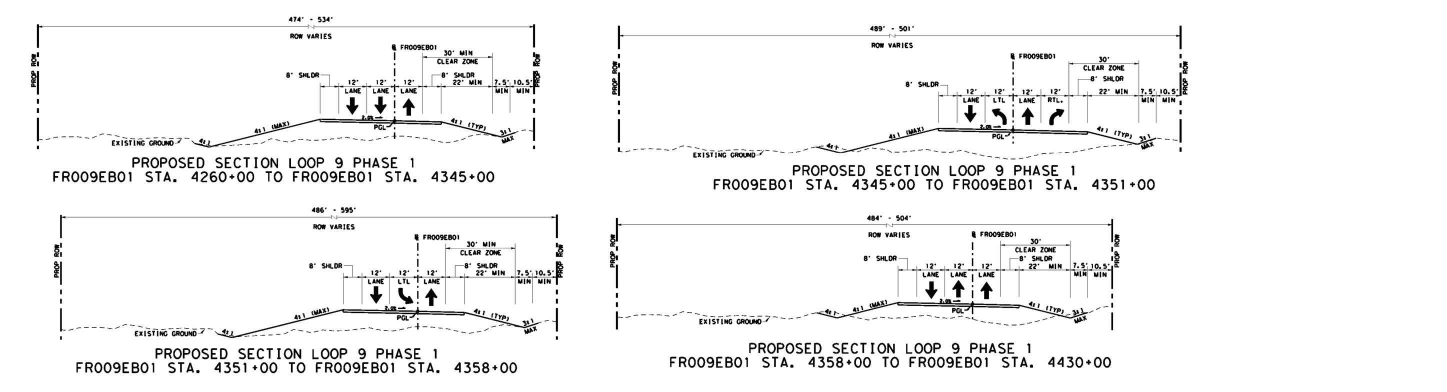
5/22/2017

PHASE 1



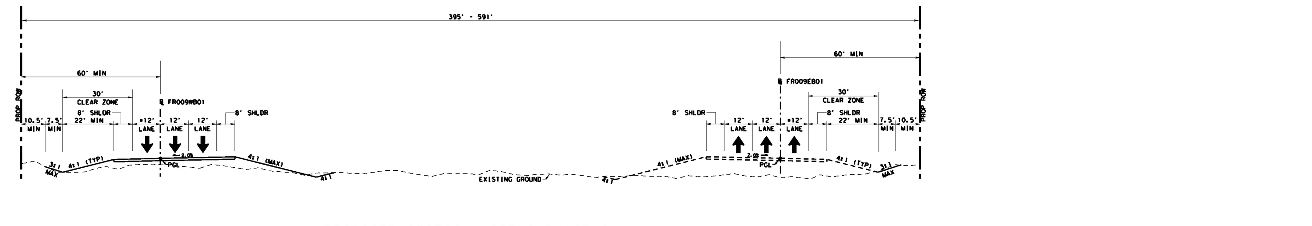
PROPOSED SECTION LOOP 9 PHASE I
FR009EB01 STA. 4260+00 TO FR009EB01 STA. 4345+00

PROPOSED SECTION LOOP 9 PHASE I
FR009WB01 STA. 4345+00 TO FR009WB01 STA. 4351+00

PROPOSED SECTION LOOP 9 PHASE I
FR009EB01 STA. 4351+00 TO FR009EB01 STA. 4358+00

PROPOSED SECTION LOOP 9 PHASE I
FR009EB01 STA. 4358+00 TO FR009EB01 STA. 4430+00

PHASE 2



PROPOSED SECTION LOOP 9 PHASE 2
ML009CL01 STA. 1196+00 TO ML009CL01 STA. 1405+00
*PHASE 2B

RIGHT OF WAY			
CL/BL	STATION	OFFSET	RT/LT
FR009EB01	4306+00.21	75.00'	RT
FR009EB01	4306+00.21	60.00'	RT
FR009EB01	4320+00.21	60.00'	RT
FR009EB01	4320+00.21	65.00'	RT
FR009EB01	4337+00.23	65.00'	RT
FR009EB01	4337+00.23	80.00'	RT
FR009EB01	4344+00.25	80.00'	RT
FR009EB01	4344+00.25	92.00'	RT
FR009EB01	4350+08.69	92.00'	RT
SS009CL09	17+63.03	46.00'	LT
SS009CL09	17+00.00	46.00'	LT
SS009CL09	15+46.03	31.00'	LT
SS009CL09	14+70.00	31.00'	LT
SS009CL09	14+70.00	31.00'	RT
SS009CL09	15+46.03	31.00'	RT
SS009CL09	17+00.00	46.00'	RT
SS009CL09	18+16.86	45.82'	RT
FR009EB01	4351+84.57	70.00'	RT
FR009EB01	4356+00.29	70.00'	RT
FR009EB01	4356+00.29	65.00'	RT
FR009EB01	4368+87.65	65.00'	RT
FR009EB01	4368+87.65	77.00'	RT
FR009EB01	4374+09.78	77.00'	RT
FR009EB01	4374+36.40	89.00'	RT
FR009EB01	4375+63.69	89.00'	RT
FR009EB01	4375+92.21	70.00'	RT
FR009EB01	4385+00.32	70.00'	RT
FR009EB01	4385+00.32	65.00'	RT
FR009EB01	4395+00.34	65.00'	RT
FR009EB01	4395+00.34	85.00'	RT

RIGHT OF WAY			
CL/BL	STATION	OFFSET	RT/LT
FR009WB01	5299+00.10	77.00'	LT
FR009WB01	5299+00.10	65.00'	LT
FR009WB01	5321+00.19	65.00'	LT
FR009WB01	5321+00.19	60.00'	LT
FR009WB01	5327+00.19	60.00'	LT
FR009WB01	5327+00.19	70.00'	LT
FR009WB01	5347+00.24	70.00'	LT
FR009WB01	5347+00.24	85.00'	LT
FR009WB01	5353+18.22	85.00'	LT
SS009CL09	23+63.70	51.00'	LT
SS009CL09	25+00.00	51.00'	LT
SS009CL09	27+50.00	31.00'	LT
SS009CL09	27+50.00	31.00'	RT
SS009CL09	25+00.00	51.00'	RT
SS009CL09	24+20.57	51.00'	RT
FR009WB01	5354+92.68	97.00'	LT
FR009WB01	5359+60.48	97.00'	LT
FR009WB01	5359+60.48	90.00'	LT
FR009WB01	5370+00.29	90.00'	LT
FR009WB01	5370+00.29	80.00'	LT
FR009WB01	5373+00.29	80.00'	LT
FR009WB01	5373+00.29	65.00'	LT
FR009WB01	5376+47.27	65.00'	LT
FR009WB01	5377+00.27	118.00'	LT
FR009WB01	5377+86.70	118.00'	LT
FR009WB01	5378+09.70	95.00'	LT

DRAINAGE EASEMENTS			
CL/BL	STATION	OFFSET	RT/LT
FR009EB01	4328+80.21	65.00'	RT
FR009EB01	4328+80.21	80.93'	RT
FR009EB01	4337+00.23	80.00'	RT
FR009WB01	5330+00.20	70.00'	LT
FR009WB01	5330+00.20	92.00'	LT
FR009WB01	5341+00.23	92.00'	LT
FR009WB01	5341+00.23	70.00'	LT

CONTROL OF ACCESS				
	CL/BL	STATION	OFFSET	RT/LT
BEGIN	FR009EB01	4310+84.65	60.00'	RT
END	FR009EB01	4317+84.80	60.00'	RT
BEGIN	FR009EB01	4346+28.35	92.00'	RT
END	FR009EB01	4350+08.69	92.00'	RT
BEGIN	FR009EB01	4351+84.57	70.00'	RT
END	FR009EB01	4356+18.43	65.00'	RT
BEGIN	FR009EB01	4357+88.77	65.00'	RT
END	FR009EB01	4361+44.01	65.00'	RT
BEGIN	FR009EB01	4369+97.21	77.00'	RT
END	FR009EB01	4374+36.40	89.00'	RT
BEGIN	FR009EB01	4375+63.69	89.00'	RT
END	FR009EB01	4380+07.21	70.00'	RT
BEGIN	FR009WB01	5310+08.97	65.00'	LT
END	FR009WB01	5313+49.11	65.00'	LT
BEGIN	FR009WB01	5348+73.24	85.00'	LT
END	FR009WB01	5353+56.08	117.24'	LT
BEGIN	FR009WB01	5354+92.68	97.00'	LT
END	FR009WB01	5358+61.66	97.00'	LT
BEGIN	FR009WB01	5359+67.96	90.00'	LT
END	FR009WB01	5367+59.60	90.00'	LT
BEGIN	FR009WB01	5372+35.27	80.00'	LT
END	FR009WB01	5377+00.27	118.00'	LT
BEGIN	FR009WB01	5377+86.70	118.00'	LT
END	FR009WB01	5382+45.27	95.00'	LT

FR009WB01-5
PI Sta = 5302+62.31
Δ = 4° 01' 06.04" (RT)
D° = 0° 28' 38.87"
T = 420.97
L = 841.60
R = 12,000.00
PC Sta = 5298+41.34
PRC Sta = 5306+82.94

FR009WB01-6
PI Sta = 5312+79.22
Δ = 5° 41' 21.79" (LT)
D° = 0° 28' 38.87"
T = 596.28
L = 1,191.58
R = 12,000.00
PRC Sta = 5306+82.94
PT Sta = 5318+74.52

FR009WB01-7
PI Sta = 5349+34.38
Δ = 57° 08' 56.62" (RT)
D° = 1° 22' 35.91"
T = 2,266.80
L = 4,151.34
R = 4,162.00
PC Sta = 5326+67.59
PT Sta = 5368+18.93

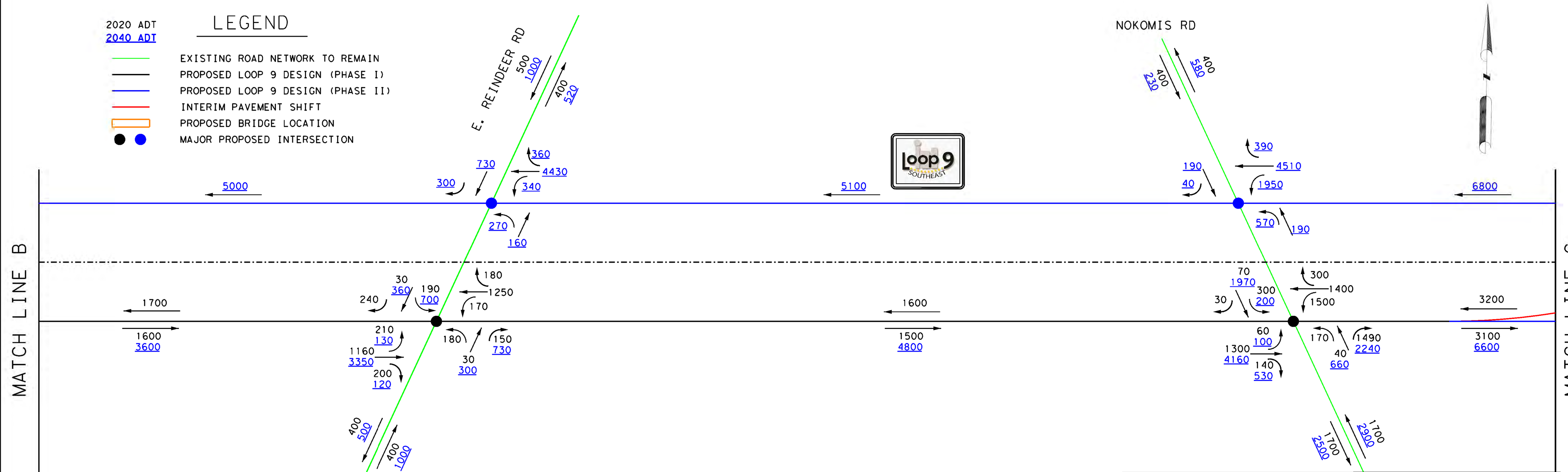
FR009WB01-8
PI Sta = 5417+82.80
Δ = 81° 56' 37.80" (LT)
D° = 1° 29' 34.28"
T = 3,333.02
L = 5,489.07
R = 3,838.00
PC Sta = 5384+49.78
PT Sta = 5439+38.84

FR009EB01-9
PI Sta = 4303+38.00
Δ = 4° 01' 06.04" (LT)
D° = 0° 28' 38.87"
T = 420.97
L = 841.60
R = 12,000.00
PC Sta = 4299+17.02
PRC Sta = 4307+58.62

FR009EB01-10
PI Sta = 4313+35.23
Δ = 5° 30' 06.84" (RT)
D° = 0° 28' 38.87"
T = 576.60
L = 1,152.32
R = 12,000.00
PRC Sta = 4307+58.62
PT Sta = 4319+10.94

FR009EB01-11
PI Sta = 4349+19.33
Δ = 53° 59' 40.05" (RT)
D° = 1° 29' 34.28"
T = 1,955.32
L = 3,616.86
R = 3,838.00
PC Sta = 4329+64.01
PT Sta = 4365+80.87

FR009EB01-12
PI Sta = 4418+26.11
Δ = 81° 56' 37.80" (LT)
D° = 1° 22' 35.91"
T = 3,614.39
L = 5,952.45
R = 4,162.00
PC Sta = 4382+11.72
PT Sta = 4441+64.17



			2040 Design Year Traffic Data			
Description of Location	Average Daily Traffic		Directional	K Factor	Percent Trucks	
	2020	2040	Factor		ADT	DHV
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- EXISTING GROUND AT EBFR
- PROPOSED PGL AT WBFR
- EXISTING GROUND AT WBFR

TYPICAL SECTION LEGEND

- EXISTING LANE DIRECTION
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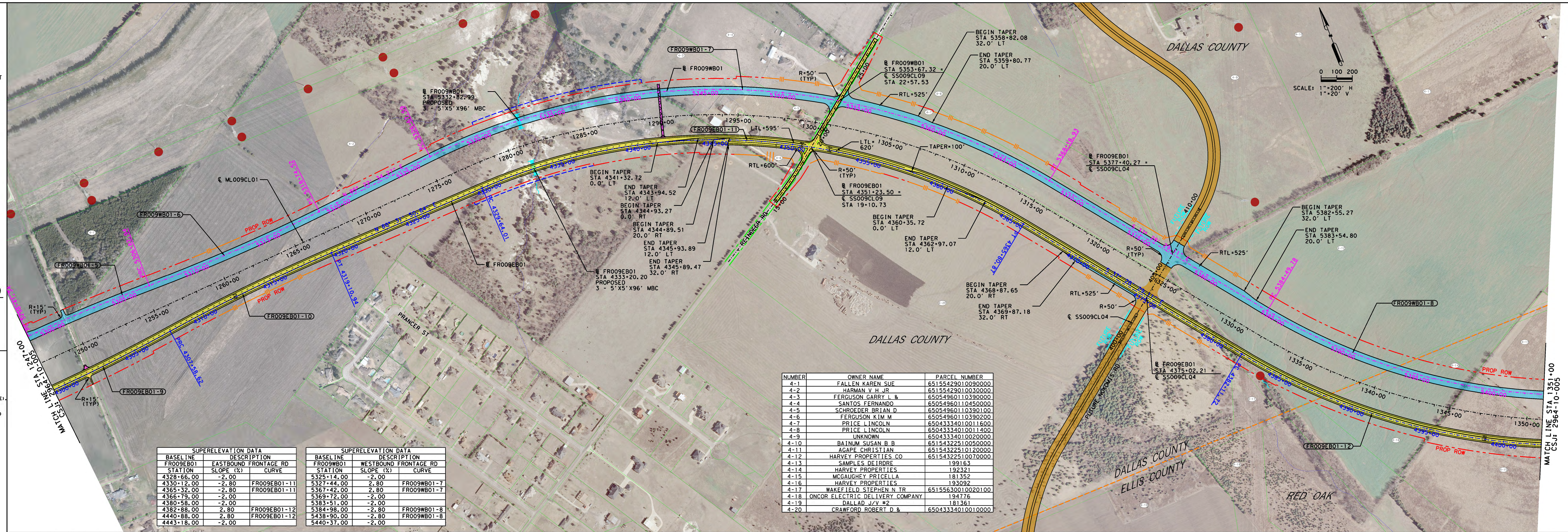
PHASE 3: FUTURE; CONSTRUCT ISOLATED GRADE SEPARATIONS AT SPECIFIC HIGH-VOLUME INTERSECTIONS.

PHASE 4: ULTIMATE, FUTURE; CONSTRUCT CONTINUOUS MAINLANES, RAMPS AND DIRECT CONNECTORS IN BOTH DIRECTIONS.

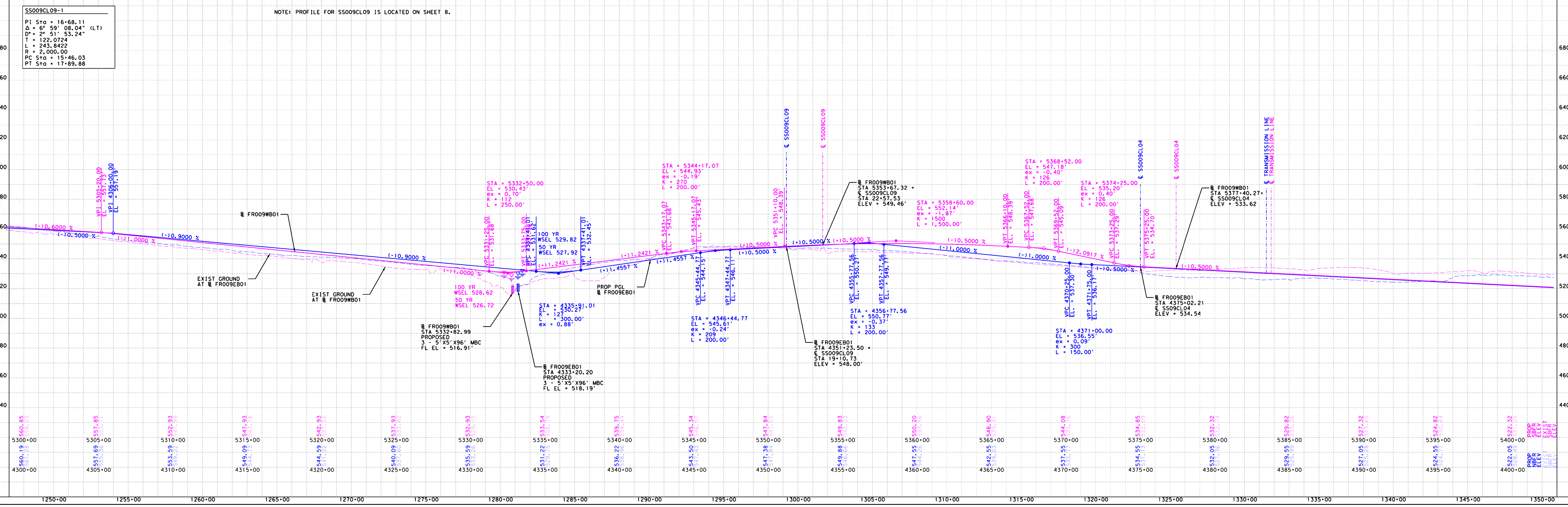


SUPERELEVATION DATA		
BASELINE	DESCRIPTION	
FR009EB01	EASTBOUND FRONTAGE RD	
STATION	SLOPE (%)	CURVE
4328+66.00	-2.00	
4330+12.00	-2.80	FR009EB01-11
4365+32.00	-2.80	FR009EB01-11
4366+79.00	-2.00	
4380+58.00	-2.00	
4382+88.00	2.80	FR009EB01-12
4440+88.00	2.80	FR009EB01-12
4443+18.00	-2.00	

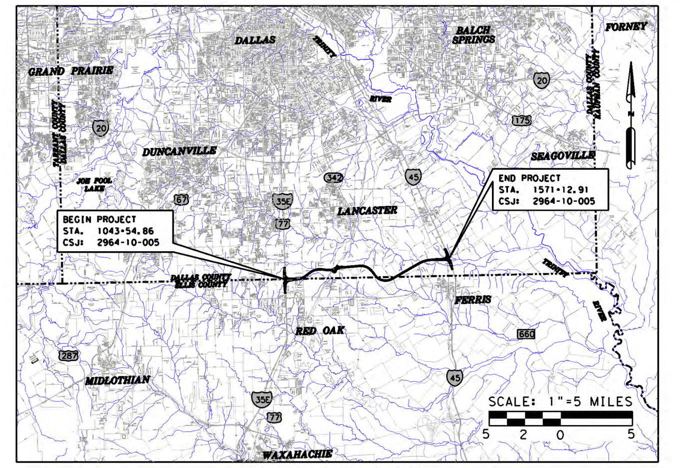
SUPERELEVATION DATA		
BASELINE	DESCRIPTION	
FR009WB01	WESTBOUND FRONTAGE RD	
STATION	SLOPE (%)	CURVE
5325+14.00	-2.00	
5327+44.00	2.80	FR009WB01-7
5367+42.00	2.80	FR009WB01-7
5369+72.00	-2.00	
5383+51.00	-2.00	
5384+98.00	-2.80	FR009WB01-8
5438+90.00	-2.80	FR009WB01-8
5440+37.00	-2.00	

NUMBER	OWNER NAME	PARCEL NUMBER
4-1	FALLEN KAREN SUE	65155429010090000
4-2	HARMAN V H JR	65155429010030000
4-3	FERGUSON GARRY L &	65054960110390000
4-4	SANTOS FERNANDO	65054960110450000
4-5	SCHROEDER BRIAN D	65054960110390100
4-6	FERGUSON KIM M	65054960110390200
4-7	PRICE LINCOLN	65043334010011600
4-8	PRICE LINCOLN	65043334010011400
4-9	UNKNOWN	65043334010020000
4-10	BAINUM SUSAN B B	65154322510050000
4-11	AGAPE CHRISTIAN	65154322510120000
4-12	HARVEY PROPERTIES CO	65154322510070000
4-13	SAMPLES DEIRDRE	199163
4-14	HARVEY PROPERTIES	192321
4-15	MCGAUGHEY PRICELLA	181352
4-16	HARVEY PROPERTIES	193092
4-17	WAKEFIELD STEPHEN N TR	65155630010020100
4-18	ONCOR ELECTRIC DELIVERY COMPANY	194776
4-19	DALLAD J/V #2	181361
4-20	CRAWFORD ROBERT D &	65043334010010000

NOTE: PROFILE FOR SS009CL09 IS LOCATED ON SHEET 8.



STATE OF TEXAS
DEPARTMENT OF TRANSPORTATION
DALLAS DISTRICT
DISTRICT ENGINEER, JAMES K. SELMAN, P.E.
STATE LOOP 9 DESIGN SCHEMATIC
FROM: IH 35E
TO: IH 45
CITIES OF LANCASTER, RED OAK, FERRIS AND WILMER
DALLAS AND ELLIS COUNTIES
CSJ: 2964-10-005
FUNCTIONAL CLASSIFICATION:
LOOP 9: RURAL FREEWAY
IH 35E: URBAN FREEWAY
IH 45: RURAL FREEWAY
LOOP 9, IH 35E, AND IH 45 DESIGN SPEED
MAIN LANES: 70 MPH
FRONTAGE ROADS: 50 MPH
RAMPS: 50 MPH
BUSINESS 45: 50 MPH
SH 342: 50 MPH
HOUSTON SCHOOL RD: 40 MPH
NAKOMIS RD: 30 MPH
REINDEER RD: 30 MPH
LOCAL SIDE STREETS: 30 MPH
JUG HANDLES: 25 MPH
U-TURNS: 25 MPH
E MAX: 6%
PROJECT LENGTH: 10.00 MILES
PROJECT DESCRIPTION:
CONSTRUCT 0 TO 2 (ULTIMATE 6) LANE FRONTAGE ROADS.



LOCATION MAP
TEXAS COUNTY MAP
DALLAS DISTRICT
HORIZ. 1"=200'
VERT. 1"=20'
PHASE I & II
PRELIMINARY
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ATKINS
18383 PRESTON RD. SUITE #500
DALLAS, TEXAS 75252
TEL: 1-972-818-7275
FAX: 1-972-380-2609
TBPE REG. #F-474
ROLL 4 OF 8
MARCH 2017

STATE OF TEXAS
DEPARTMENT OF TRANSPORTATION
DALLAS DISTRICT

DISTRICT ENGINEER, JAMES K. SELMAN, P.E.

STATE LOOP 9
DESIGN SCHEMATIC

FROM: IH 35E

TO: IH 45

CITIES OF LANCASTER, RED OAK, FERRIS AND WILMER

DALLAS AND ELLIS COUNTIES

CSJ: 2964-10-005

FUNCTIONAL CLASSIFICATION:
LOOP 9: RURAL FREEWAY
IH 35E: URBAN FREEWAY
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LOOP 9, IH 35E, AND IH 45 DESIGN SPEED

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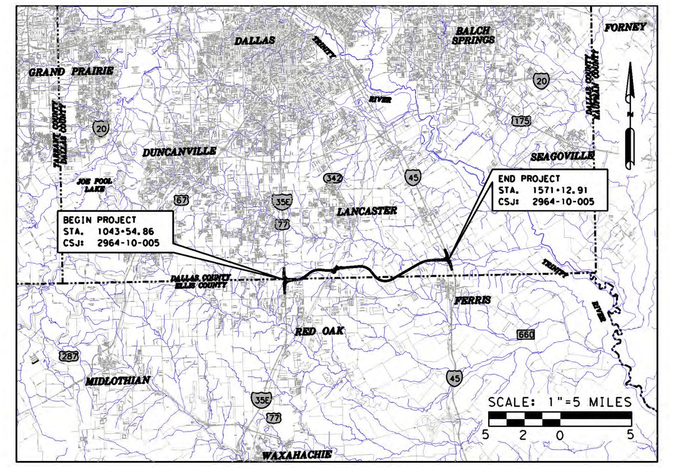

LOCATION MAP

TEXAS COUNTY MAP
DALLAS DISTRICT

HORIZ. 1"=200'
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PHASE I & II

Loop 9 SOUTHEAST

PRELIMINARY

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BY J. BRYAN HODGES, P.E. 68013
ATKINS
DATE 5/22/2017

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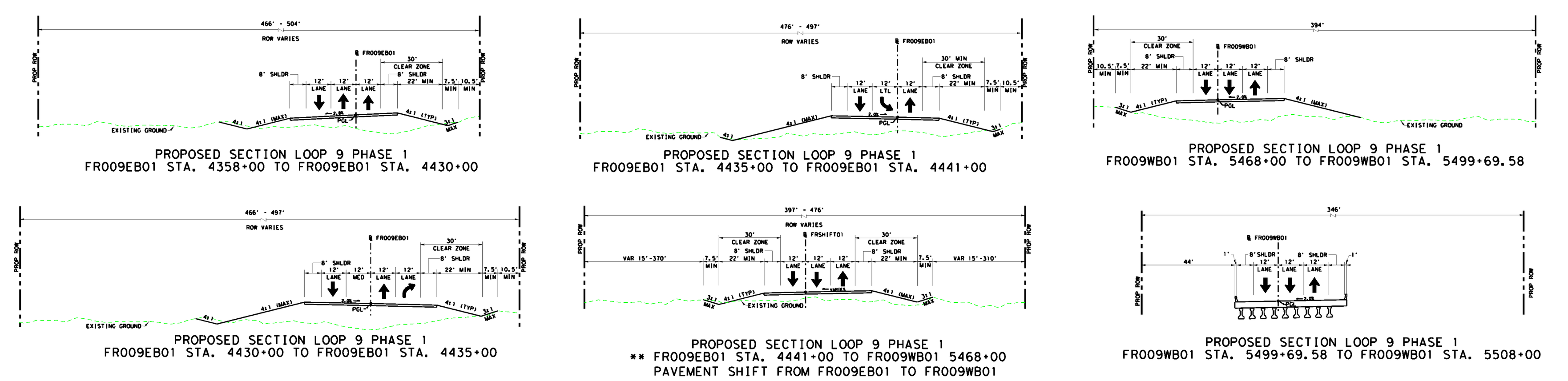
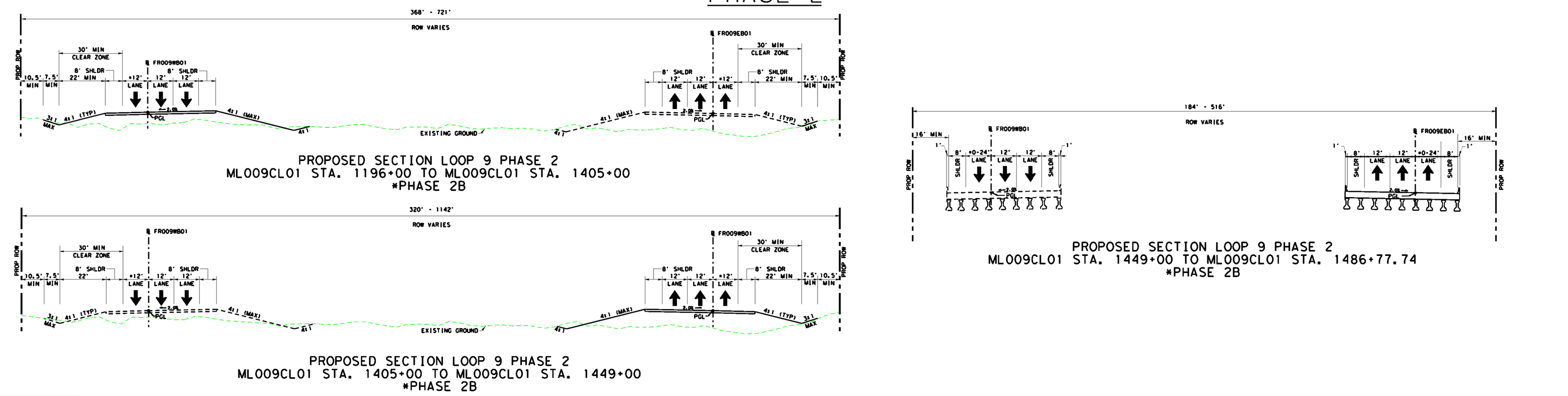
ROLL 5 OF 8
MARCH 2017

PHASE 1



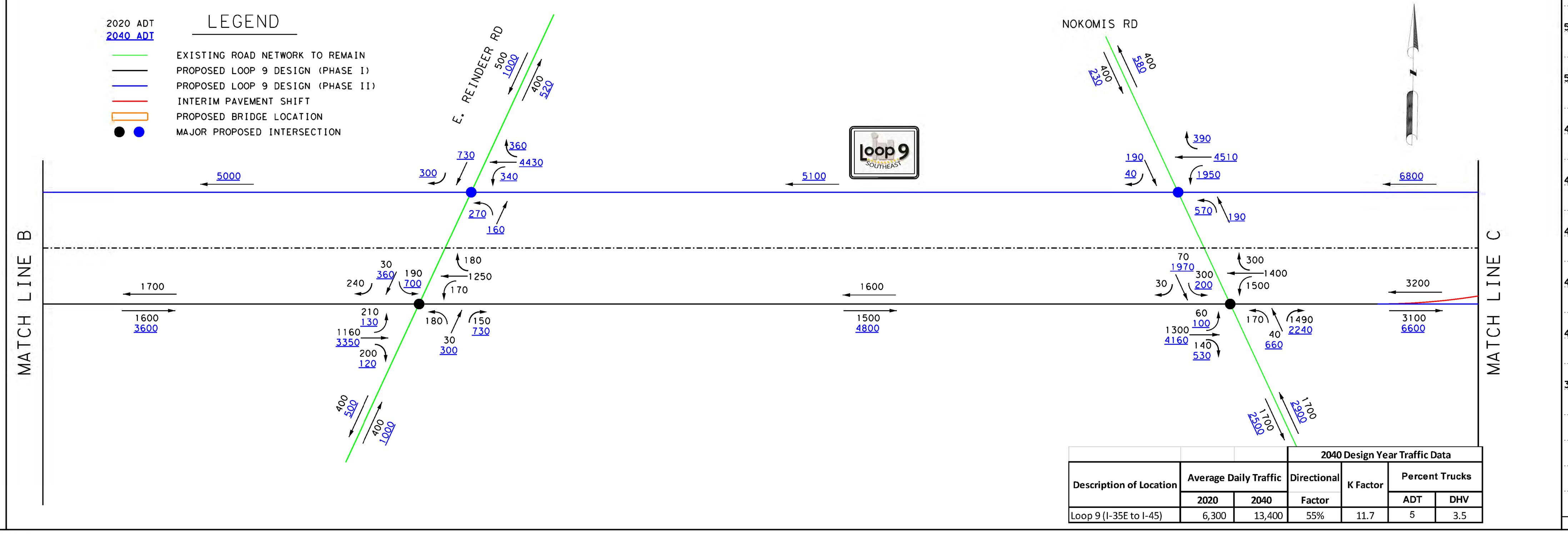
PHASE 2



NUMBER	OWNER NAME	PARCEL NUMBER	NUMBER	OWNER NAME	PARCEL NUMBER
5-1	INTHALANGSY THONGINH	206503	5-41	CUETO ELISARDO & JOANN	153693
5-2	INTHALANGSY THONGINH	65154322510080000	5-42	KUHLMANN FRED & DONNA	198986
5-3	VALLO ELMERS S JR	200251	5-43	KUHLMANN FRED & DONNA	198985
5-4	VALLO ELMERS S JR	65154322510080400	5-44	KUHLMANN FRED & DONNA	205450
5-5	FERNANDEZ ANTONIO	200250	5-45	KUHLMANN FRED & DONNA	204704
5-6	FERNANDEZ ANTONIO	65154322510080100	5-46	KUHLMANN FRED & DONNA	65076945010010100
5-7	GILLIESPIE CHRISTOPHER H SR	200249	5-47	KUHLMANN FRED & DONNA	65076945010010200
5-8	RAMOS JESUS A & OFELIA	65154322510080200	5-48	944 S LAMAR ASSOCIATION	65089653010010000
5-9	MC MAHON JIMMY G	192322	5-49	AVELAR JULIO &	65010273010010300
5-10	MC MAHON JIMMY G	65154322510080300	5-50	SAYEN JOSEPH L &	65089653010020100
5-11	KINSEY BOBBIE G & LINDA L	65076543010040400	5-51	LUONG QUOC HIEP &	65089653010020000
5-12	BEVERLY REAL ESTATE INVESTMENT INC	65076543010030300	5-52	HARTIS ROYCE C & DONNA M	65089653010040000
5-13	ADAMS WELTON & SHERI	60171800000010000	5-53	HARRIS ROYCE C JR	65089653010040100
5-14	ADAMS W O	60171800000020000	5-54	HARTIS ROYCE C	65089653010050000
5-15	CONTRERAS ANDRES	60171800000030000	5-55	HARTIS ROYCE	65076945010010000
5-16	LLOYD BREXTON	60171800000040000	5-56	LORD TROY W & LAURA J	206792
5-17	WARE ADARRIEN	60171800000050000	5-57	CAMARGO GILBERTO	206791
5-18	RUIZ JOSE	60171800000060000	5-58	BEAM SHERMAN J & MELBA E	205207
5-19	FIELDS NIKITA C &	60171800000070000	5-59	COSGROVE LINDA J	206800
5-20	PEREZ HUMBERTO &	60171800000080000	5-60	ANDRADE CHRISTOPHER	206794
5-21	FREEMAN JOHN L JR	60171800000090000	5-61	REED KENDRICK & TAKEISHA	205434
5-22	ESCOGIDO RAMIRO & MARIA	60171800000100000	5-62	HARTIS ROYCE	187064
5-23	CRUZ BENITO DE LA	60171800000110000	5-63	ASBILL LARRY W & MARGARET J	206406
5-24	MILES ANTHONY R JR	60171800000120000	5-64	BUTLER KIPP & TINA	205425
5-25	PARDO RUMALDO & ANGELITA	60171800000130000	5-65	VALENTINE CLINT M	206263
5-26	SIBLEY EDWARD C	153696	5-66	CHAIREZ RODOLFO C	215727
5-27	HARRIS BOOKER T & ADALIESE	153695	5-67	CHAIREZ RODOLFO C	215728
5-28	RODRIGUEZ ALEJANDRO	153694	5-68	HERNANDEZ GUADALUPE & SILVIA	206264
5-29	RODRIGUEZ ALEJANDRO	60171800000230000	5-69	CHAVARRIA CINDY	205432
5-30	CUETO ELISARDO & JOANN	60171800000220000	5-70	ANDRADE ELVIA	205433
5-31	BARTLETT GARY A & DONNA J	153692	5-71	CICCONI DANIEL M & JULIE A	205365
5-32	SALAZAR EVELIO	60171800000200000	5-72	GALINDO CANUTO L & TRACEY L	205367
5-33	ADAMS DAVID W & KELLY	60171800000190000	5-73	LEONARD LAFONDRA D	220044
5-34	ADAMS DAVID & KELLY	60171800000180000	5-74	HARDEE REBECCA R	205452
5-35	NOBLES DYLAN	60171800000170000	5-75	SWEAT JOEL C	205373
5-36	NOBLES BYRON K &	60171800000160000	5-76	LOZANO MARIO CONTRERAS	205366
5-37	ANDRADEMEZA MANUEL A	60171800000150000	5-77	LACY BILLY W	181278
5-38	BROWDEN JAMES E II	60171800000140000	5-78	SAMPLES DEIRDRE	199163
5-39	GROPPE JAY C & KATHLEEN A	65089653010030300	5-79	MCGAUGHEY PRICELLA	181352
5-40	GROPPE JAY C & KATHLEEN A	65089653010030600			

RIGHT OF WAY			
CL/BL	STATION	OFFSET	RT/LT
FR009EB01	4408+00.38	85.00'	RT
FR009EB01	4408+00.38	75.00'	RT
FR009EB01	4414+00.39	75.00'	RT
FR009EB01	4414+00.39	65.00'	RT
FR009EB01	4429+38.23	65.00'	RT
FR009EB01	4429+38.23	77.00'	RT
FR009EB01	4434+51.35	77.00'	RT
SS009CL08	803+55.48	46.00'	LT
SS009CL08	803+00.00	46.00'	LT
SS009CL08	800+50.00	31.00'	LT
SS009CL08	800+50.00	31.00'	RT
SS009CL08	803+00.00	46.00'	RT
SS009CL08	803+54.61	45.00'	RT
FR009EB01	4435+79.82	65.00'	RT
FR009WB01	5409+00.36	95.00'	LT
FR009WB01	5409+00.36	80.00'	LT
FR009WB01	5415+00.38	80.00'	LT
FR009WB01	5415+00.38	75.00'	LT
FR009WB01	5420+00.39	75.00'	LT
FR009WB01	5420+00.39	70.00'	LT
FR009WB01	5422+00.40	70.00'	LT
FR009WB01	5422+00.40	65.00'	LT
FR009WB01	5431+94.91	65.00'	LT
SS009CL08	808+63.51	51.00'	LT
SS009CL08	810+00.00	51.00'	LT
SS009CL08	813+00.00	31.00'	LT
SS009CL08	813+00.00	31.00'	RT
SS009CL08	810+00.00	51.00'	RT
SS009CL08	808+67.45	51.00'	RT
FR009WB01	5433+30.36	87.00'	LT
FR009WB01	5439+00.45	87.00'	LT
FR009WB01	5439+00.45	65.00'	LT
FR009WB01	5497+24.59	65.00'	LT
FR009WB01	5497+14.25	286.11'	LT
FR009WB01	5497+56.22	287.61'	LT
FR009WB01	5497+66.63	65.00'	LT

DRAINAGE EASEMENTS			
CL/BL	STATION	OFFSET	RT/LT
FR009EB01	4441+00.45	65.00'	RT
FR009EB01	4441+00.45	85.00'	RT
FR009EB01	4449+00.46	85.00'	RT
FR009EB01	4449+00.46	65.00'	RT
FR009EB01	4474+00.46	65.00'	RT
FR009EB01	4474+00.46	72.00'	RT
FR009EB01	4478+00.46	72.00'	RT
FR009EB01	4478+00.46	92.00'	RT
FR009EB01	4481+00.46	92.00'	RT
FR009EB01	4481+00.46	65.00'	RT
FR009WB01	5440+00.45	65.00'	LT
FR009WB01	5440+00.45	77.00'	LT
FR009WB01	5447+00.45	77.00'	LT
FR009WB01	5447+00.45	65.00'	LT
FR009WB01	5456+00.45	65.00'	LT
FR009WB01	5456+00.45	80.00'	LT
FR009WB01	5458+00.45	80.00'	LT
FR009WB01	5458+00.45	100.00'	LT
FR009WB01	5460+00.45	100.00'	LT
FR009WB01	5460+00.45	80.00'	LT
FR009WB01	5462+00.45	80.00'	LT
FR009WB01	5462+00.45	65.00'	LT
FR009WB01	5475+92.07	65.00'	LT
FR009WB01	5475+92.07	72.00'	LT
FR009WB01	5476+92.07	72.00'	LT
FR009WB01	5476+92.07	65.00'	LT



PLAN LEGEND

- PROPOSED ℄
- PROPOSED ROW
- EXISTING ROW
- FUTURE ROW
- CONTROL OF ACCESS ROW
- PERMANENT DRAINAGE EASEMENT
- PROPERTY LINES
- CONSTRUCTION EASEMENT
- COUNTY LINE
- PROPOSED PHASE I ROADWAY
- PROPOSED PHASE II ROADWAY
- FUTURE IMPROVEMENTS (BY OTHERS)
- PROPOSED BRIDGE PHASE 1
- PROPOSED BRIDGE PHASE II
- PHASE I TEMPORARY ACCESS
- FLOOD PLAIN
- TRANSMISSION LINES
- PHASE I REMOVAL
- PHASE II REMOVAL

PROFILE LEGEND

- PROPOSED PGL AT EBFR
- EXISTING GROUND AT EBFR
- PROPOSED PGL AT WBFR
- EXISTING GROUND AT WBFR

TYPICAL SECTION LEGEND

- EXISTING LANE DIRECTION
- PROPOSED LANE DIRECTION
- EXISTING CONSTRUCTION
- PROPOSED CONSTRUCTION

NOTES:
1. EXISTING FEATURES WERE NOT FIELD SURVEYED. SCHEMATICS ARE BASED ON AERIAL SUVEYS DATED DECEMBER 2013 AND RECORD PLANS.
2. SUPERELEVATION AXIS OF ROTATION IS ABOUT THE PGL.
3. DIMENSIONS ARE TO THE EDGE OF PAVEMENT OR NOMINAL FACE OF CURB, RAIL, BARRIER, OR WALL (UNLESS NOTED OTHERWISE).
4. APPROXIMATE 100 YEAR FLOODPLAIN LIMITS ARE BASED UPON FEMA Q3 DATA, 2017 (FIRM PANELS 48139C-2 AND 48139C-17)
5. OWNERSHIP INFORMATION SHOWN ON SCHEMATIC OBTAINED FROM DALLAS COUNTY APPRAISAL DISTRICT (20 MAY 2016) AND ELLIS COUNTY APPRAISAL DISTRICT (9 SEPT 2015).
6. EXISTING CULVERT LOCATIONS, SIZE, AND ELEVATIONS OBTAINED FROM RECORD DOCUMENTS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
7. ADA RAMPS ARE NOT DEPICTED IN THE PLAN.
8. EXISTING DRIVEWAYS WILL REMAIN UNLESS IT IS DETERMINED DURING DETAILED DESIGN STAGE AND COORDINATION WITH THE LOCAL GOVERNMENT THAT THE DRIVEWAY IS A SAFETY ISSUE AND/OR IS LOCATED WITHIN ACCESS DENIAL LIMITS SHOWN.
9. FINAL DRIVEWAY LOCATIONS TO BE DETERMINED IN THE PS&E DEVELOPMENT PHASE.
10. BUILDINGS ARE SHOWN AS POTENTIAL DISPLACEMENT IF THE PROPOSED ROW PHYSICALLY INTERSECTS THE EXISTING BUILDING STRUCTURE.
11. CURBS ON THE FRONTAGE ROAD AND CROSS STREETS ARE TYPE II (UNLESS NOTED OTHERWISE).
12. CONVENTIONAL ROADWAY SIGNAGE (SMALL SIGNS) ARE NOT SHOWN AND WILL BE DEVELOPED DURING THE PS&E PHASE OF THE PROJECT.
13. DESIGN SCHEMATIC SHOWN HEREIN IS FOR PHASE I AND II. PRELIMINARY SCHEMATIC OF ULTIMATE DESIGN IS PROVIDED FOR ROW ASCERTAINMENT AND SHALL BE FURTHER DEVELOPED IN THE FUTURE (BY OTHERS).
14. EXISTING OVERHEAD POWER LINE CROSSINGS SHOWN. COORDINATION WITH UTILITY PROVIDER WILL BE REQUIRED DURING DETAILED DESIGN TO ESTABLISH APPROPRIATE VERTICAL CLEARANCES.
15. VERTICAL CLEARANCES AT RAILROAD CROSSINGS WERE DETERMINED FROM PROVIDED TOPOGRAPHICAL DATA.
16. EXISTING ROW IS APPROXIMATE AND BASED ON AVAILABLE AS-BUILT PLANS.

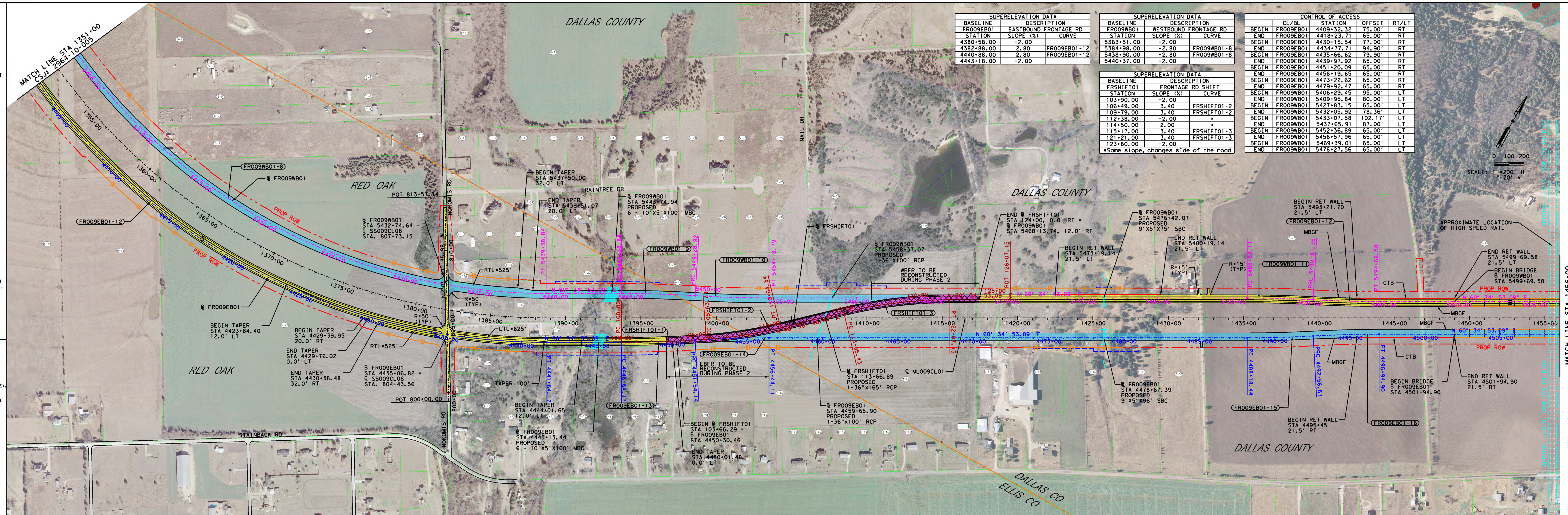
PHASED CONSTRUCTION APPROACH

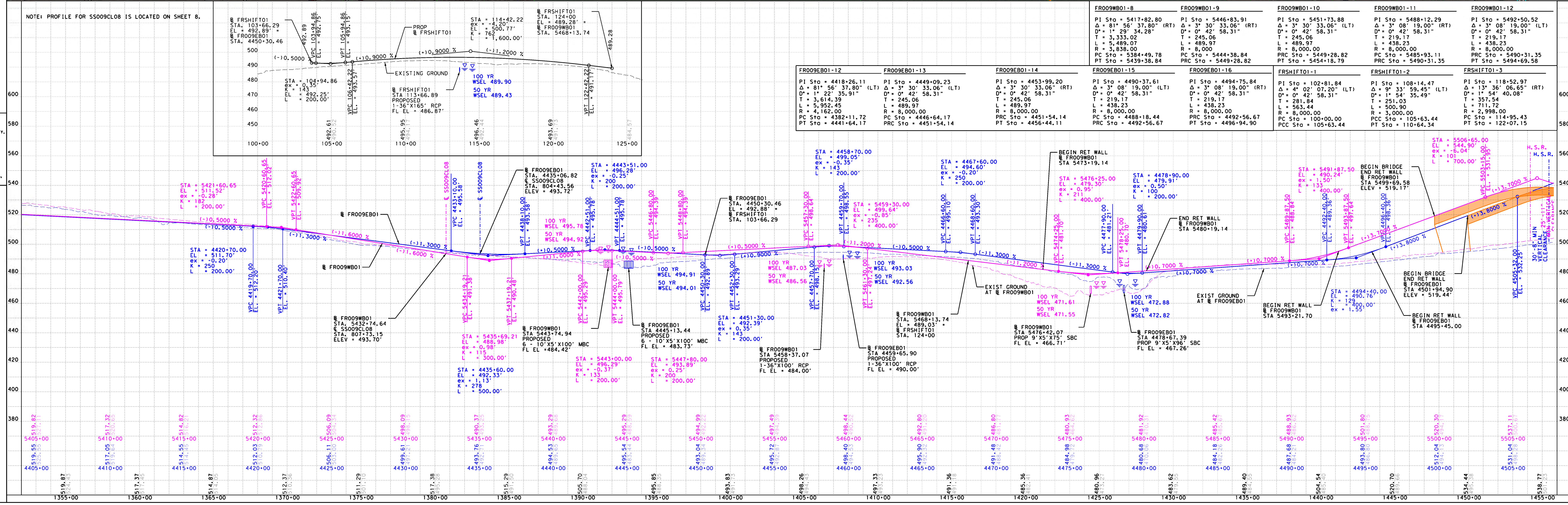
PHASE 1: CONSTRUCT ONE TWO-WAY FRONTAGE ROAD AND ACQUIRE THE ENTIRE PROPOSED ROW FOR THE ULTIMATE FACILITY.

PHASE 2: CONSTRUCT THE SECOND FRONTAGE ROAD AND CONVERT THE EXISTING FRONTAGE ROAD'S TRAFFIC DIRECTION TO ONE WAY.

PHASE 3: FUTURE; CONSTRUCT ISOLATED GRADE SEPARATIONS AT SPECIFIC HIGH-VOLUME INTERSECTIONS.

PHASE 4: ULTIMATE, FUTURE; CONSTRUCT CONTINUOUS MAINLANES, RAMPS AND DIRECT CONNECTORS IN BOTH DIRECTIONS.





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DISTRICT ENGINEER, JAMES K. SELMAN, P.E.
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TO: IH 45
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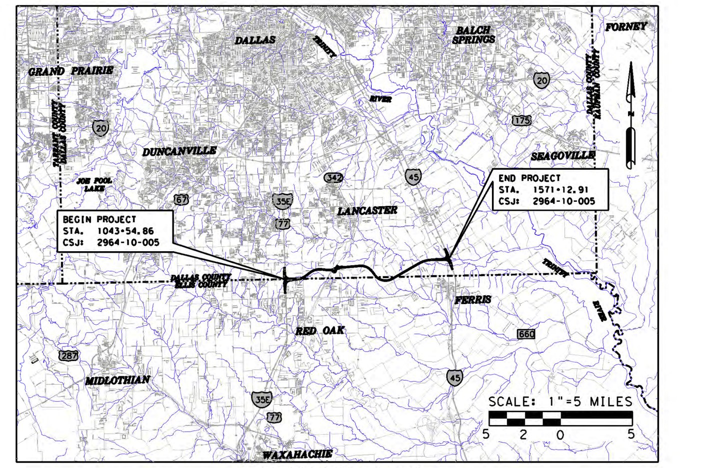
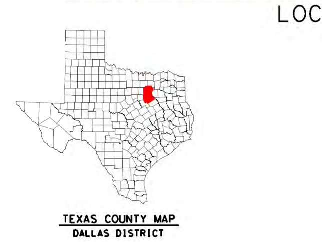


LOCATION MAP



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ATKINS
TBPE REG. #F-474
ROLL 5 OF 8
MARCH 2017

pw:\\CP-PWS-IS01.pbsj.com:ATKNATX01\Documents\Roads and Bridges\Projects\100041650*Loop 9*IH35E to IH45\FC 110 Sch\CADD\SCH\P5.LP9SCHM5.dgn
5/22/2017

STATE OF TEXAS
DEPARTMENT OF TRANSPORTATION
DALLAS DISTRICT

DISTRICT ENGINEER, JAMES K. SELMAN, P.E.

STATE LOOP 9
DESIGN SCHEMATIC

FROM: IH 35E

TO: IH 45

CITIES OF LANCASTER, RED OAK, FERRIS AND WILMER

DALLAS AND ELLIS COUNTIES

CSJ: 2964-10-005

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IH 35E: URBAN FREEWAY
IH 45: RURAL FREEWAY

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SH 342:	50 MPH
HOUSTON SCHOOL RD:	40 MPH
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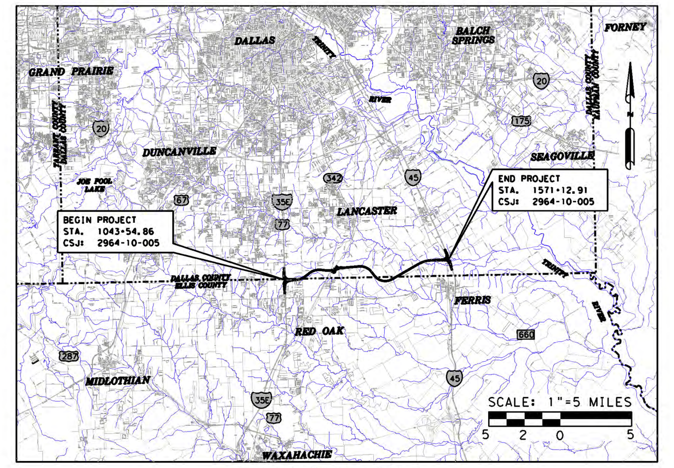

LOCATION MAP

TEXAS COUNTY MAP
DALLAS DISTRICT

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PHASE I & II

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BY J. BRYAN HODGES, P.E. 68013
ATKINS
DATE 5/22/2017

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DALLAS, TEXAS 75252
TEL: 1-972-818-7275
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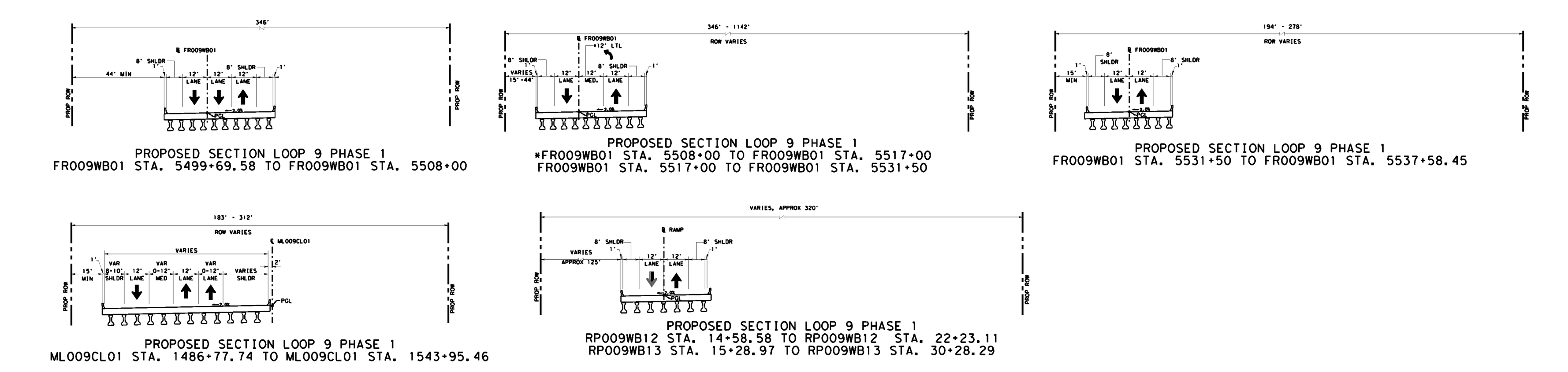
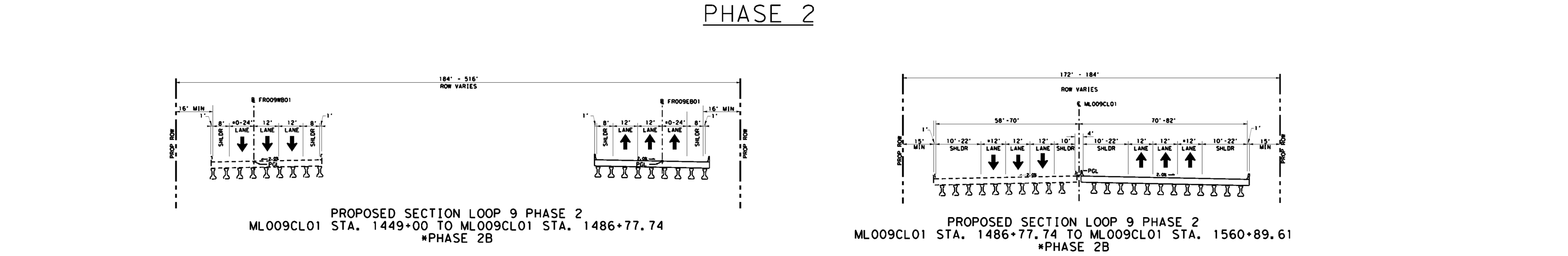
TBPE REG. #F-474

ROLL 6 OF 8
MARCH 2017

PHASE 1



PHASE 2



RIGHT OF WAY			
CL/BL	STATION	OFFSET	RT/LT
FR009EB01	4513+07.98	65.00'	RT
JG009EB02	10+44.36	87.86'	RT
JG009EB02	10+85.48	47.00'	RT
JG009EB02	18+05.87	47.00'	RT
FR009EB01	4519+85.08	36.00'	RT
FR009EB01	4527+04.10	36.00'	RT
FR009EB01	4533+04.14	24.00'	RT
FR009EB01	4543+41.83	24.00'	RT
ML009CL01	1492+61.31	98.00'	RT
ML009CL01	1501+89.78	98.00'	RT
ML009CL01	1507+94.24	86.00'	RT
ML009CL01	1529+53.42	86.00'	RT
ML009CL01	1541+01.02	138.00'	RT
ML009CL01	1549+81.75	135.08'	RT
ML009CL01	1556+10.72	157.17'	RT
ML009CL01	1558+99.51	175.27'	RT
FR009WB01	5510+64.65	65.00'	LT
JG009WB02	18+35.56	83.88'	RT
JG009WB02	18+03.98	57.00'	RT
JG009WB02	16+34.85	57.00'	RT
JG009WB02	15+85.08	47.00'	RT
JG009WB02	10+65.00	47.00'	RT
FR009WB01	5517+49.64	36.00'	LT
FR009WB01	5539+95.18	36.00'	LT
FR009WB01*	5543+45.85	38.00'	LT
ML009CL01*	1492+61.31	86.00'	LT
ML009CL01	1514+74.69	86.00'	LT
ML009CL01	1520+39.84	117.86'	LT
ML009CL01	1524+39.73	148.78'	LT
ML009CL01	1528+73.87	166.65'	LT
ML009CL01	1539+71.39	172.33'	LT
ML009CL01	1548+07.19	234.74'	LT
ML009CL01	1550+89.01	282.94'	LT
ML009CL01	1554+14.55	334.45'	LT

* denotes same point

CONTROL OF ACCESS				
	CL/BL	STATION	OFFSET	RT/LT
BEGIN	FR009EB01	4513+31.43	468.64'	RT
END	FR009EB01	4523+52.46	36.00'	RT
BEGIN	FR009WB01	5511+06.99	457.44'	LT
END	FR009WB01	5521+27.14	36.00'	LT

FR009EB01-17
PI Sta = 4541+04.17
Δ = 9° 29' 40.29" (RT)
D° = 1° 04' 51.79"
T = 440.14
L = 878.27
R = 5,300.00
PC Sta = 4536+64.02
PT Sta = 4545+42.29

FR009WB01-13
PI Sta = 5534+27.27
Δ = 10° 55' 10.03" (RT)
D° = 1° 11' 10.49"
T = 461.65
L = 920.50
R = 4,830.00
PC Sta = 5529+65.62
PT Sta = 5538+86.12

FR009WB01-14
PI Sta = 5541+70.52
Δ = 1° 25' 29.74" (LT)
D° = 0° 24' 22.87"
T = 175.34
L = 350.66
R = 14,100.00
PC Sta = 5539+95.18
PT Sta = 5543+45.85

JG009WB02-1
PI Sta = 13+51.00
Δ = 90° 00' 00.00" (LT)
D° = 24° 48' 12.12"
T = 231.00
L = 362.85
R = 231.00
PC Sta = 11+20.00
PT Sta = 14+82.85

JG009WB02-2
PI Sta = 17+05.34
Δ = 10° 34' 03.32" (RT)
D° = 5° 27' 24.27"
T = 97.11
L = 193.66
R = 1,050.00
PC Sta = 16+08.23
PT Sta = 18+01.89

JG009EB02-1
PI Sta = 16+17.18
Δ = 87° 02' 48.64" (LT)
D° = 24° 48' 12.12"
T = 219.39
L = 350.95
R = 231.00
PC Sta = 13+97.79
PT Sta = 17+48.74

NUMBER	OWNER NAME	PARCEL NUMBER
6-1	AVELAR JULIO &	65010273010010300
6-2	JOHNSON KENNETH	65010273010010000
6-3	TEXAS UTILITIES ELEC CO	65010373518030000
6-4	TEXAS UTILITIES ELEC CO	65010373518000000
6-5	JOHNSON KENNETH	65010373510100000
6-6	JOHNSON KENNETH	65010373510080100
6-7	TEXAS UTILITIES ELEC CO	65010373518000000
6-8	RAHMANI HAMID &	65010373510070000
6-9	RAHMANI HAMID &	65010373510070100
6-10	JOHNSON KENNETH	65010373510120100
6-11	JOHNSON KENNETH	65010373510120300
6-12	TEXAS UTILITIES ELEC CO	65010373518010000
6-13	HAYDEN SARAH	65010373510040000
6-14	SASSIN INVESTMENTS INC	65010373510270000
6-15	SASSIN & SONS	65010373510050000
6-16	SMITH E L III ET AL	65086516010030000
6-17	TEXAS UTILITIES ELEC CO	65010474010070100
6-18	SMITH E L III ET AL	65010474010060000
6-19	BIG BIRD WOOD GRINDING	65086516010020000
6-20	LEONE MASSIMO	65010474010010300
6-21	HALL JOHN D	65010474010010200
6-22	UNION PACIFIC RR CO	60UNPACIFICRRDS00

RP009WB12-1
PI Sta = 12+44.69
Δ = 5° 36' 12.64" (RT)
D° = 1° 08' 45.30"
T = 244.69
L = 488.99
R = 5,000.00
PC Sta = 10+00.00
PT Sta = 14+89.00

RP009WB12-2
PI Sta = 17+31.46
Δ = 5° 33' 08.55" (RT)
D° = 1° 08' 45.30"
T = 242.45
L = 484.53
R = 5,000.00
PRC Sta = 14+89.00
PT Sta = 19+73.53

ML009CL01-7
PI Sta = 1499+66.71
Δ = 28° 29' 28.27" (RT)
D° = 0° 42' 58.31"
T = 2,031.09
L = 3,978.12
R = 8,000.00
PC Sta = 1479+35.63
PT Sta = 1519+13.75

ML009CL01-8
PI Sta = 1557+24.32
Δ = 10° 50' 31.73" (LT)
D° = 0° 31' 58.74"
T = 1,020.16
L = 2,034.23
R = 10,750.00
PC Sta = 1547+04.16
PT Sta = 1567+38.39

RP009WB12-3
PI Sta = 28+17.47
Δ = 13° 57' 19.86" (LT)
D° = 0° 59' 16.29"
T = 709.87
L = 1,412.70
R = 5,800.00
PC Sta = 21+07.61
PT Sta = 35+20.31

RP009EB11-1
PI Sta = 11+90.60
Δ = 2° 43' 46.82" (RT)
D° = 0° 42' 58.31"
T = 190.60
L = 381.13
R = 8,000.00
PC Sta = 10+00.00
PRC Sta = 13+81.13

RP009EB11-2
PI Sta = 17+52.11
Δ = 5° 18' 38.08" (LT)
D° = 0° 42' 58.57"
T = 370.98
L = 741.42
R = 7,999.18
PRC Sta = 13+81.13
PRC Sta = 21+22.55

RP009EB11-3
PI Sta = 23+12.61
Δ = 2° 00' 52.52" (LT)
D° = 0° 31' 48.24"
T = 190.05
L = 380.06
R = 10,809.16
PRC Sta = 21+22.55
PRC Sta = 25+02.62

RP009EB11-4
PI Sta = 27+14.07
Δ = 4° 02' 15.17" (RT)
D° = 0° 57' 18.36"
T = 211.45
L = 422.73
R = 5,998.92
PRC Sta = 25+02.62
PRC Sta = 29+25.35

RP009EB11-5
PI Sta = 34+65.32
Δ = 10° 17' 03.11" (LT)
D° = 0° 57' 17.50"
T = 539.97
L = 1,075.59
R = 6,000.42
PRC Sta = 29+25.35
PT Sta = 40+02.39

RP009WB13-1
PI Sta = 14+72.15
Δ = 8° 59' 56.08" (LT)
D° = 0° 57' 17.75"
T = 472.15
L = 972.36
R = 6,000.00
PC Sta = 10+00.00
PT Sta = 19+42.36

PLAN LEGEND

- PROPOSED ℄
- PROPOSED ROW
- EXISTING ROW
- FUTURE ROW
- CONTROL OF ACCESS ROW
- PERMANENT DRAINAGE EASEMENT
- PROPERTY LINES
- CONSTRUCTION EASEMENT
- COUNTY LINE
- PROPOSED PHASE I ROADWAY
- PROPOSED PHASE II ROADWAY
- FUTURE IMPROVEMENTS (BY OTHERS)
- PROPOSED BRIDGE PHASE 1
- PROPOSED BRIDGE PHASE II
- PHASE I TEMPORARY ACCESS
- FLOOD PLAIN
- TRANSMISSION LINES
- PHASE I REMOVAL
- PHASE II REMOVAL

PROFILE LEGEND

- PROPOSED PGL AT EBFR
- EXISTING GROUND AT EBFR
- PROPOSED PGL AT WBFR
- EXISTING GROUND AT WBFR

TYPICAL SECTION LEGEND

- EXISTING LANE DIRECTION
- PROPOSED LANE DIRECTION
- EXISTING CONSTRUCTION
- PROPOSED CONSTRUCTION

NOTES:
1. EXISTING FEATURES WERE NOT FIELD SURVEYED. SCHEMATICS ARE BASED ON AERIAL SUVEYS DATED DECEMBER 2013 AND RECORD PLANS.
2. SUPERELEVATION AXIS OF ROTATION IS ABOUT THE PGL.
3. DIMENSIONS ARE TO THE EDGE OF PAVEMENT OR NOMINAL FACE OF CURB, RAIL, BARRIER, OR WALL (UNLESS NOTED OTHERWISE).
4. APPROXIMATE 100 YEAR FLOODPLAIN LIMITS ARE BASED UPON FEMA Q3 DATA, 2017 (FIRM PANELS 48139C-2 AND 48139C-17)
5. OWNERSHIP INFORMATION SHOWN ON SCHEMATIC OBTAINED FROM DALLAS COUNTY APPRAISAL DISTRICT (20 MAY 2016) AND ELLIS COUNTY APPRAISAL DISTRICT (9 SEPT 2015).
6. EXISTING CULVERT LOCATIONS, SIZE, AND ELEVATIONS OBTAINED FROM RECORD DOCUMENTS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
7. ADA RAMPS ARE NOT DEPICTED IN THE PLAN.
8. EXISTING DRIVEWAYS WILL REMAIN UNLESS IT IS DETERMINED DURING DETAILED DESIGN STAGE AND COORDINATION WITH THE LOCAL GOVERNMENT THAT THE DRIVEWAY IS A SAFETY ISSUE AND/OR IS LOCATED WITHIN ACCESS DENIAL LIMITS SHOWN.
9. FINAL DRIVEWAY LOCATIONS TO BE DETERMINED IN THE PS&E DEVELOPMENT PHASE.
10. BUILDINGS ARE SHOWN AS POTENTIAL DISPLACEMENT IF THE PROPOSED ROW PHYSICALLY INTERSECTS THE EXISTING BUILDING STRUCTURE.
11. CURBS ON THE FRONTAGE ROAD AND CROSS STREETS ARE TYPE II (UNLESS NOTED OTHERWISE).
12. CONVENTIONAL ROADWAY SIGNAGE (SMALL SIGNS) ARE NOT SHOWN AND WILL BE DEVELOPED DURING THE PS&E PHASE OF THE PROJECT.
13. DESIGN SCHEMATIC SHOWN HEREIN IS FOR PHASE I AND II. PRELIMINARY SCHEMATIC OF ULTIMATE DESIGN IS PROVIDED FOR ROW ASCERTAINMENT AND SHALL BE FURTHER DEVELOPED IN THE FUTURE (BY OTHERS).
14. EXISTING OVERHEAD POWER LINE CROSSINGS SHOWN. COORDINATION WITH UTILITY PROVIDER WILL BE REQUIRED DURING DETAILED DESIGN TO ESTABLISH APPROPRIATE VERTICAL CLEARANCES.
15. VERTICAL CLEARANCES AT RAILROAD CROSSINGS WERE DETERMINED FROM PROVIDED TOPOGRAPHICAL DATA.
16. EXISTING ROW IS APPROXIMATE AND BASED ON AVAILABLE AS-BUILT PLANS.

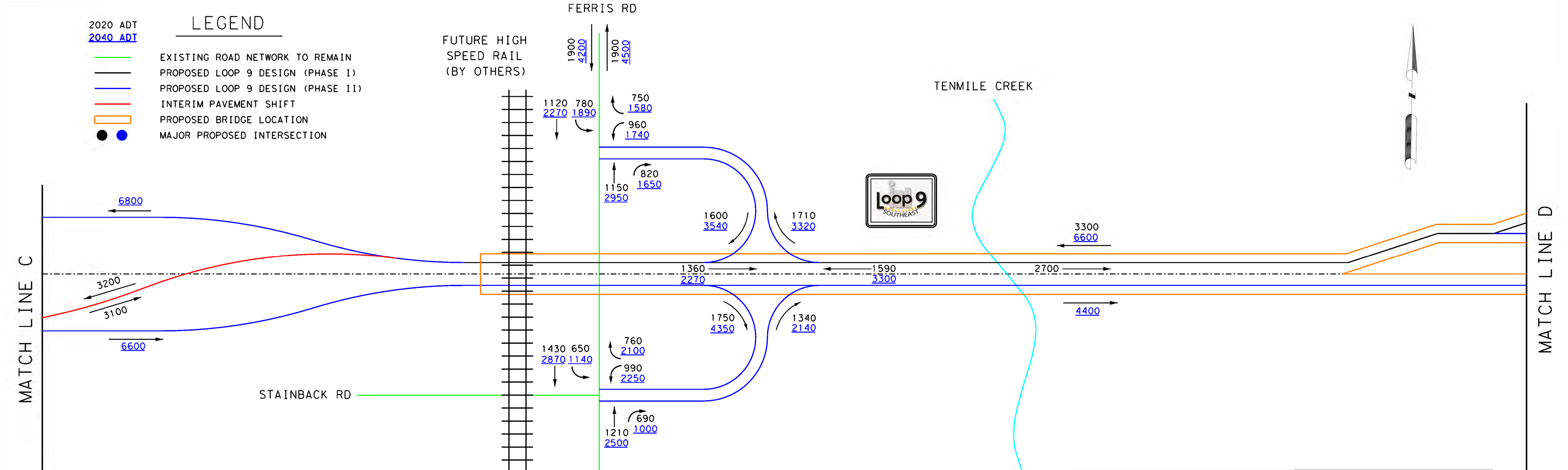
PHASED CONSTRUCTION APPROACH

PHASE 1: CONSTRUCT ONE TWO-WAY FRONTAGE ROAD AND ACQUIRE THE ENTIRE PROPOSED ROW FOR THE ULTIMATE FACILITY.

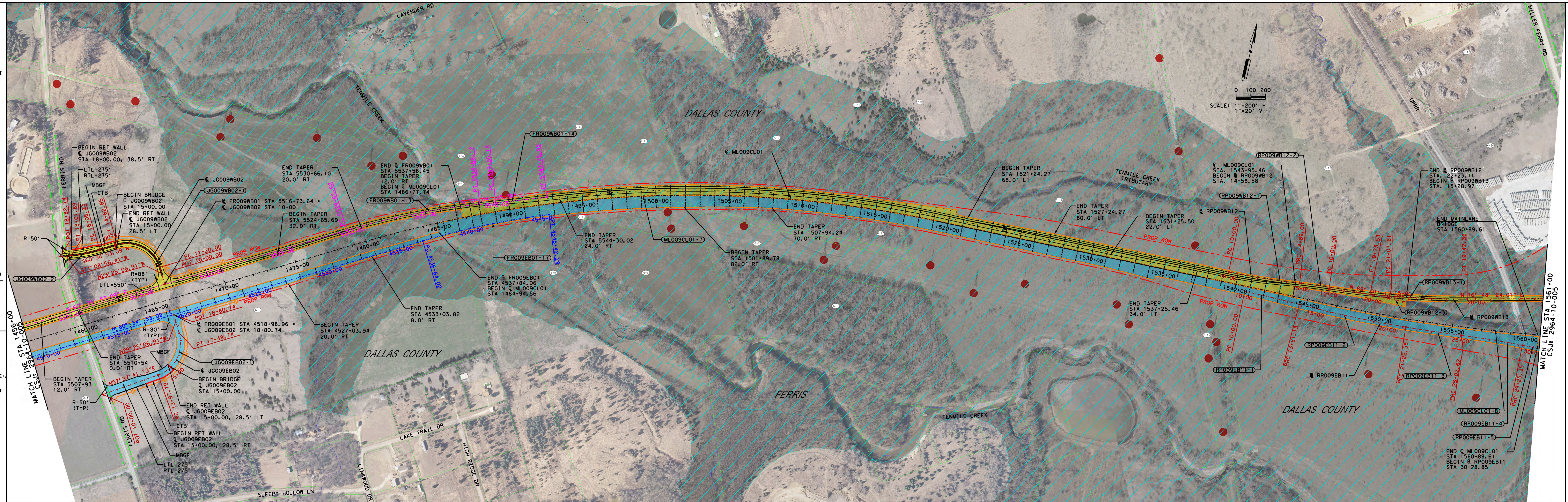
PHASE 2: CONSTRUCT THE SECOND FRONTAGE ROAD AND CONVERT THE EXISTING FRONTAGE ROAD'S TRAFFIC DIRECTION TO ONE WAY.

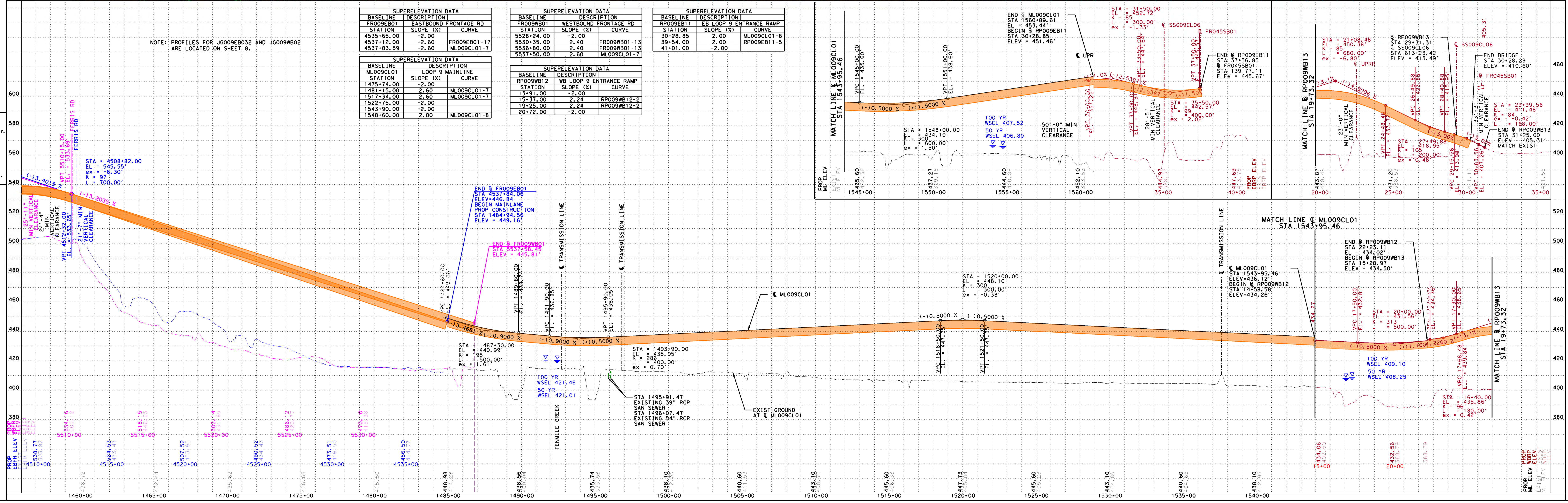
PHASE 3: FUTURE; CONSTRUCT ISOLATED GRADE SEPARATIONS AT SPECIFIC HIGH-VOLUME INTERSECTIONS.

PHASE 4: ULTIMATE, FUTURE; CONSTRUCT CONTINUOUS MAINLANES, RAMPS AND DIRECT CONNECTORS IN BOTH DIRECTIONS.



			2040 Design Year Traffic Data			
Description of Location	Average Daily Traffic		Directional Factor	K Factor	Percent Trucks	
	2020	2040			ADT	DHV
Loop 9 (I-35E to I-45)	6,300	13,400	55%	11.7	5	3.5





SUPERELEVATION DATA		
BASELINE	DESCRIPTION	
FR009EB01	EASTBOUND FRONTAGE RD	
STATION	SLOPE (%)	CURVE
4535+65.00	-2.00	
4537+12.00	-2.60	FR009EB01-17
4537+83.59	-2.60	ML009CL01-7

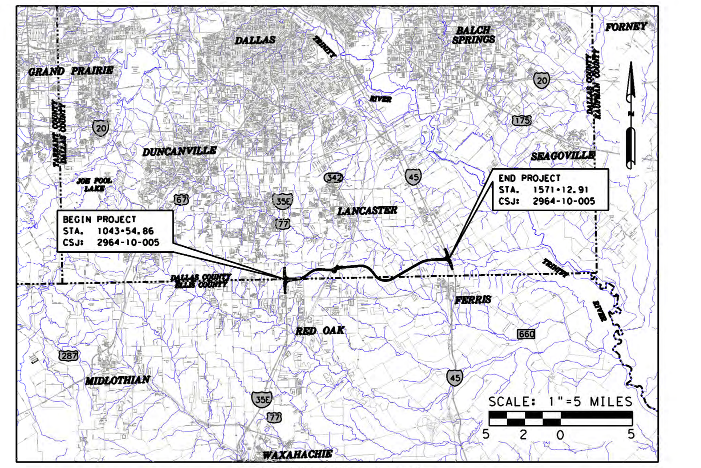
SUPERELEVATION DATA		
BASELINE	DESCRIPTION	
ML009CL01	LOOP 9 MAINLINE	
STATION	SLOPE (%)	CURVE
1475+74.00	-2.00	
1481+15.00	2.60	ML009CL01-7
1517+34.00	2.60	ML009CL01-7
1522+75.00	-2.00	
1543+90.00	-2.00	
1548+60.00	2.00	ML009CL01-8

SUPERELEVATION DATA		
BASELINE	DESCRIPTION	
FR009WB01	WESTBOUND FRONTAGE RD	
STATION	SLOPE (%)	CURVE
5528+24.00	-2.00	
5530+35.00	2.40	FR009WB01-13
5536+80.00	2.40	FR009WB01-13
5537+50.00	2.60	ML009CL01-7

SUPERELEVATION DATA		
BASELINE	DESCRIPTION	
RP009WB12	WB LOOP 9 ENTRANCE RAMP	
STATION	SLOPE (%)	CURVE
13+91.00	-2.00	
15+37.00	2.24	RP009WB12-2
19+25.00	2.24	RP009WB12-2
20+72.00	-2.00	

SUPERELEVATION DATA		
BASELINE	DESCRIPTION	
RP009EB11	EB LOOP 9 ENTRANCE RAMP	
STATION	SLOPE (%)	CURVE
30+28.85	2.00	ML009CL01-8
39+54.00	2.00	RP009EB11-5
41+01.00	-2.00	

STATE OF TEXAS
DEPARTMENT OF TRANSPORTATION
DALLAS DISTRICT
DISTRICT ENGINEER, JAMES K. SELMAN, P.E.
STATE LOOP 9
DESIGN SCHEMATIC
FROM: IH 35E
TO: IH 45
CITIES OF LANCASTER, RED OAK, FERRIS AND WILMER
DALLAS AND ELLIS COUNTIES
CSJ: 2964-10-005
FUNCTIONAL CLASSIFICATION:
LOOP 9: RURAL FREEWAY
IH 35E: URBAN FREEWAY
IH 45: RURAL FREEWAY
LOOP 9, IH 35E, AND IH 45 DESIGN SPEED
MAIN LANES: 70 MPH
FRONTAGE ROADS: 50 MPH
RAMPS: 50 MPH
BUSINESS 45: 50 MPH
SH 342: 50 MPH
HOUSTON SCHOOL RD: 40 MPH
NAKOMIS RD: 30 MPH
REINDEER RD: 30 MPH
LOCAL SIDE STREETS: 30 MPH
JUG HANDLES: 25 MPH
U-TURNS: 25 MPH
E MAX: 6%
PROJECT LENGTH: 10.00 MILES
PROJECT DESCRIPTION:
CONSTRUCT 0 TO 2 (ULTIMATE 6) LANE FRONTAGE ROADS.



LOCATION MAP
HORIZ. 1"=200'
VERT. 1"=20'
PHASE I & II
PRELIMINARY
ROLL 6 OF 8
MARCH 2017

pw:\\CP-PWS-IS01.pbsj.com:ATKNATX01\Documents\Roads and Bridges\Projects\100041650*Loop 9*IH35E to IH45\FC 110 Sch\CADD\SCH\P6.LP9SCHM6.dgn
5/22/2017

STATE OF TEXAS
DEPARTMENT OF TRANSPORTATION
DALLAS DISTRICT

DISTRICT ENGINEER, JAMES K. SELMAN, P.E.

STATE LOOP 9
DESIGN SCHEMATIC

FROM: IH 35E

TO: IH 45

CITIES OF LANCASTER, RED OAK, FERRIS AND WILMER

DALLAS AND ELLIS COUNTIES

CSJ: 2964-10-005

FUNCTIONAL CLASSIFICATION:
LOOP 9: RURAL FREEWAY
IH 35E: URBAN FREEWAY
IH 45: RURAL FREEWAY

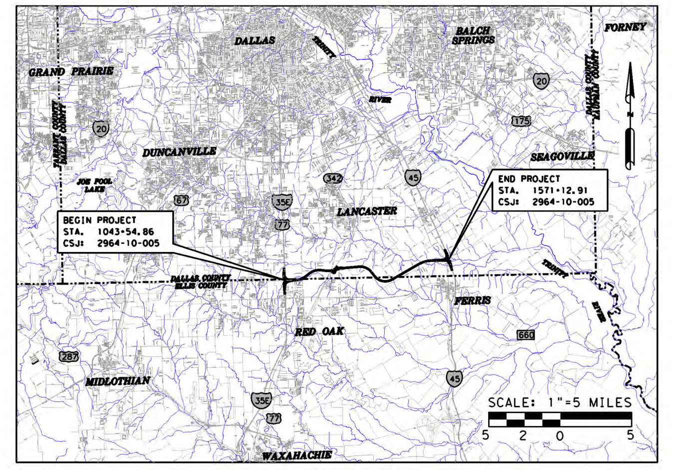
LOOP 9, IH 35E, AND IH 45 DESIGN SPEED

MAIN LANES:	70 MPH
FRONTAGE ROADS:	50 MPH
RAMPS:	50 MPH
BUSINESS 45:	50 MPH
SH 342:	50 MPH
HOUSTON SCHOOL RD:	40 MPH
NAKOMIS RD:	30 MPH
REINDEER RD:	30 MPH
LOCAL SIDE STREETS:	30 MPH
JUG HANDLES:	25 MPH
U-TURNS:	25 MPH

E MAX: 6%

PROJECT LENGTH: 10.00 MILES

PROJECT DESCRIPTION:
CONSTRUCT 0 TO 2 (ULTIMATE 6) LANE FRONTAGE ROADS.



LOCATION MAP

HORIZ. 1"=200'
VERT. 1"=20'

PHASE I & II

PRELIMINARY

THIS PRINT IS FURNISHED FOR INFORMATION ONLY. THE PLAN INFORMATION OR OTHER DATA SHOWN HEREIN IS SUBJECT TO CHANGE AND MUST NOT BE CONSTRUED AS FINAL. NOT FOR CONSTRUCTION, BIDDING OR PERMITTING

BY J. BRYAN HODGES, P.E. 68013
ATKINS
DATE 5/22/2017

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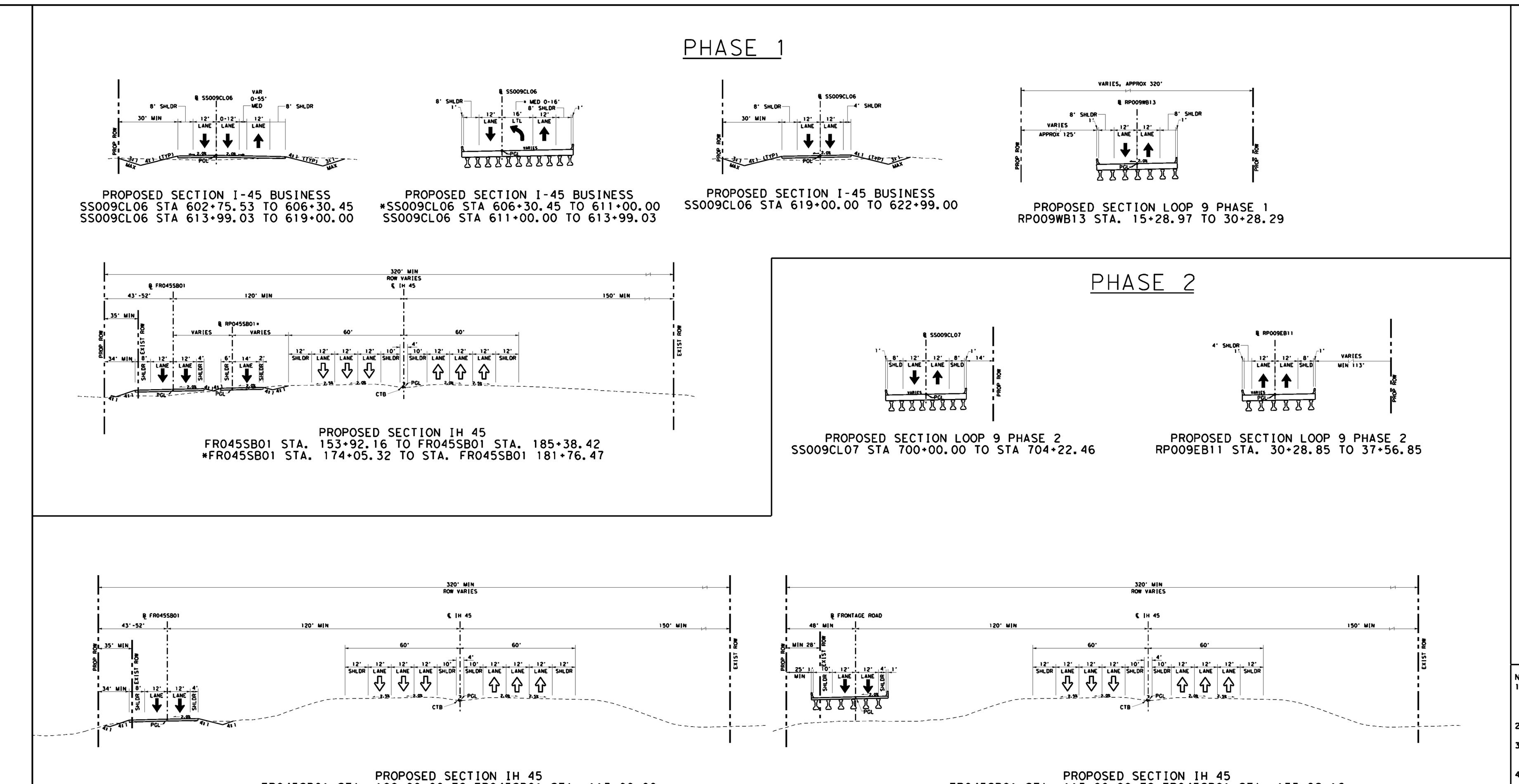
ATKINS
18383 PRESTON RD. SUITE #500
DALLAS, TEXAS 75252
TEL: 1-972-818-7275
FAX: 1-972-380-2609
TBPE REG. #F-474

ROLL 7 OF 8
MARCH 2017

PHASE 1 / PHASE 2



FR045SB01-1	FR045SB01-2	FR045SB01-3	FR045SB01-4	FR045SB01-5	FR045SB01-6
PI Sta = 118+41.70	PI Sta = 127+83.91	PI Sta = 133+36.98	PI Sta = 141+83.48	PI Sta = 149+74.54	PI Sta = 162+59.16
Δ = 3° 05' 34.95" (LT)	Δ = 4° 31' 53.53" (LT)	Δ = 5° 05' 17.50" (LT)	Δ = 6° 46' 40.44" (LT)	Δ = 4° 18' 18.78" (LT)	Δ = 3° 45' 23.74" (LT)
D° = 0° 57' 17.75"	D° = 1° 08' 45.30"	D° = 0° 42' 58.31"	D° = 0° 41' 25.12"	D° = 0° 42' 58.31"	D° = 0° 34' 22.65"
T = 161.99	T = 197.83	T = 355.46	T = 491.50	T = 300.70	T = 327.94
L = 323.90	L = 395.45	L = 710.45	L = 981.86	L = 601.12	L = 655.65
R = 6,000.00	R = 5,000.00	R = 8,000.00	R = 8,300.00	R = 8,000.00	R = 10,000.00
PC Sta = 116+79.70	PC Sta = 125+86.08	PRC Sta = 129+81.53	PRC Sta = 136+91.97	PRC Sta = 146+73.84	PC Sta = 159+31.22
PT Sta = 120+03.61	PRC Sta = 129+81.53	PRC Sta = 136+91.97	PRC Sta = 146+73.84	PT Sta = 152+74.96	PT Sta = 165+86.87

SS009CL06-1	SS009CL06-2	SS009CL07-1	RP009EB11-5	RP009WB13-2
PI Sta = 607+94.92	PI Sta = 625+34.86	PI Sta = 702+6.91	PI Sta = 34+65.32	PI Sta = 28+75.40
Δ = 7° 01' 45.71" (LT)	Δ = 12° 22' 25.28" (LT)	Δ = 17° 50' 55.82" (LT)	Δ = 10° 17' 03.11" (LT)	Δ = 4° 29' 55.52" (LT)
D° = 0° 52' 53.30"	D° = 1° 00' 18.68"	D° = 11° 27' 32.96"	D° = 0° 57' 17.50"	D° = 1° 54' 35.49"
T = 399.23	T = 617.89	T = 78.52	T = 539.97	T = 117.84
L = 797.46	L = 1,230.98	L = 155.76	L = 1,077.03	L = 235.55
R = 6,500.00	R = 5,700.00	R = 500.00	R = 6,000.00	R = 3,000.00
PC Sta = 603+95.69	PC Sta = 619+16.96	PC Sta = 701+88.40	PC Sta = 29+25.35	PC Sta = 27+57.56
PT Sta = 611+93.15	PT Sta = 631+47.95	PT Sta = 703+44.16	PT Sta = 40+02.39	PT Sta = 29+93.12

RP045SB01-1	RP045SB01-2	RP045SB01-3	RP045SB01-4
PI Sta = 10+37.46	PI Sta = 12+35.70	PI Sta = 18+80.40	PI Sta = 23+57.78
Δ = 0° 42' 55.20" (RT)	Δ = 4° 36' 13.35" (LT)	Δ = 4° 31' 06.88" (RT)	Δ = 4° 32' 10.49" (LT)
D° = 0° 57' 17.75"	D° = 1° 25' 56.62"	D° = 1° 54' 35.49"	D° = 1° 25' 56.62"
T = 37.46	T = 160.79	T = 118.36	T = 158.43
L = 74.91	L = 321.40	L = 236.59	L = 316.69
R = 6,000.00	R = 4,000.00	R = 3,000.00	R = 4,000.00
PC Sta = 10+00.00	PRC Sta = 10+74.91	PC Sta = 17+62.04	PC Sta = 21+99.36
PRC Sta = 10+74.91	PT Sta = 13+96.31	PT Sta = 19+98.64	PT Sta = 25+16.05

CONTROL OF ACCESS

	CL/BL	STATION	OFFSET	RT/LT
BEGIN	FR045NB01	108+73.87	33.00'	RT
END	FR045NB01	115+75.74	33.00'	RT
BEGIN	FR045SB01	167+01.89	52.00'	LT
END	FR045SB01	174+05.51	52.00'	LT

RIGHT OF WAY

CL/BL	STATION	OFFSET	RT/LT
FR045SB01	100+00.00	54.00'	LT
FR045SB01	111+72.38	54.00'	LT
FR045SB01	111+72.38	60.00'	LT
FR045SB01	114+00.00	60.00'	LT
FR045SB01	114+00.00	48.00'	LT
FR045SB01	131+93.56	48.00'	LT
SS009CL07	703+19.49	35.00'	RT
SS009CL07	700+66.44	35.00'	RT
SS009CL06	622+75.98	50.00'	LT
SS009CL06*	628+22.26	50.00'	LT
FR045SB01*	159+15.71	52.00'	LT
FR045SB01	185+38.42	52.00'	LT

* denotes same point

PLAN LEGEND

- PROPOSED ℄
- PROPOSED ROW
- EXISTING ROW
- FUTURE ROW
- CONTROL OF ACCESS ROW
- PROPERTY LINES
- DRAINAGE EASEMENT
- COUNTY LINE
- PROPOSED PHASE I ROADWAY
- PROPOSED PHASE II ROADWAY
- FUTURE IMPROVEMENTS (BY OTHERS)
- PROPOSED BRIDGE PHASE 1
- PROPOSED BRIDGE PHASE II
- PHASE I TEMPORARY ACCESS
- FLOOD PLAIN
- TRANSMISSION LINES
- PHASE I REMOVAL
- PHASE II REMOVAL

PROFILE LEGEND

- PROPOSED PGL AT NBFR
- EXISTING GROUND AT NBFR
- PROPOSED PGL AT SBFR
- EXISTING GROUND AT SBFR

TYPICAL SECTION LEGEND

- EXISTING LANE DIRECTION
- PROPOSED LANE DIRECTION
- EXISTING CONSTRUCTION
- PROPOSED CONSTRUCTION

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 PGL.
3. DIMENSIONS ARE TO THE EDGE OF PAVEMENT OR NOMINAL FACE OF CURB, RAIL, BARRIER, OR WALL (UNLESS NOTED OTHERWISE).
4. APPROXIMATE 100 YEAR FLOODPLAIN LIMITS ARE BASED UPON FEMA Q3 DATA, 2017 (FIRM PANELS 48139C-2 AND 48139C-17)
5. OWNERSHIP INFORMATION SHOWN ON SCHEMATIC OBTAINED FROM DALLAS COUNTY APPRAISAL DISTRICT (20 MAY 2016) AND ELLIS COUNTY APPRAISAL DISTRICT (9 SEPT 2015).
6. EXISTING CULVERT LOCATIONS, SIZE, AND ELEVATIONS OBTAINED FROM RECORD DOCUMENTS AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
7. ADA RAMPS ARE NOT DEPICTED IN THE PLAN.
8. EXISTING DRIVEWAYS WILL REMAIN UNLESS IT IS DETERMINED DURING DETAILED DESIGN STAGE AND COORDINATION WITH THE LOCAL GOVERNMENT THAT THE DRIVEWAY IS A SAFETY ISSUE AND/OR IS LOCATED WITHIN ACCESS DENIAL LIMITS SHOWN.
9. FINAL DRIVEWAY LOCATIONS TO BE DETERMINED IN THE PS&E DEVELOPMENT PHASE.
10. BUILDINGS ARE SHOWN AS POTENTIAL DISPLACEMENT IF THE PROPOSED ROW PHYSICALLY INTERSECTS THE EXISTING BUILDING STRUCTURE.
11. CURBS ON THE FRONTAGE ROAD AND CROSS STREETS ARE TYPE II (UNLESS NOTED OTHERWISE).
12. CONVENTIONAL ROADWAY SIGNAGE (SMALL SIGNS) ARE NOT SHOWN AND WILL BE DEVELOPED DURING THE PS&E PHASE OF THE PROJECT.
13. DESIGN SCHEMATIC SHOWN HEREIN IS FOR PHASE 1 AND II. PRELIMINARY SCHEMATIC OF ULTIMATE DESIGN IS PROVIDED FOR ROW ASCERTAINMENT AND SHALL BE FURTHER DEVELOPED IN THE FUTURE (BY OTHERS).
14. EXISTING OVERHEAD POWER LINE CROSSINGS SHOWN. COORDINATION WITH UTILITY PROVIDER WILL BE REQUIRED DURING DETAILED DESIGN TO ESTABLISH APPROPRIATE VERTICAL CLEARANCES.
15. VERTICAL CLEARANCES AT RAILROAD CROSSINGS WERE DETERMINED FROM PROVIDED TOPOGRAPHICAL DATA.
16. EXISTING ROW IS APPROXIMATE AND BASED ON AVAILABLE AS-BUILT PLANS.

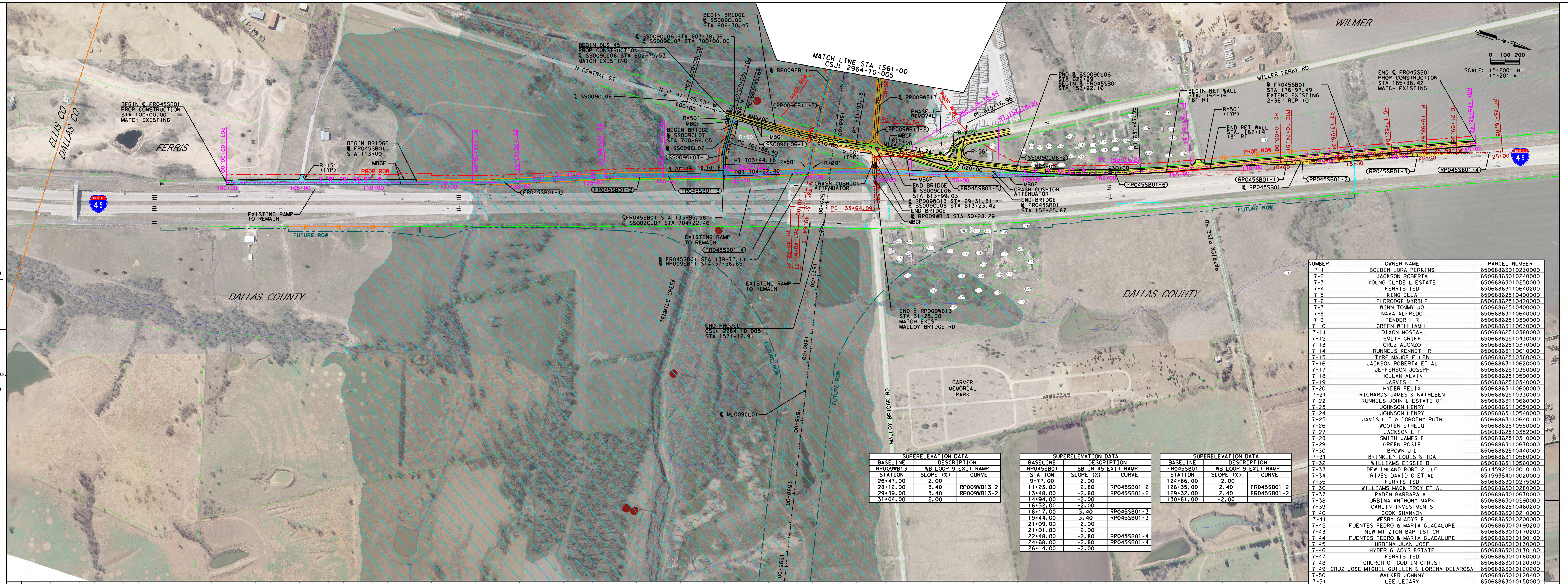
PHASED CONSTRUCTION APPROACH

PHASE 1: CONSTRUCT ONE TWO-WAY FRONTAGE ROAD AND ACQUIRE THE ENTIRE PROPOSED ROW FOR THE ULTIMATE FACILITY.

PHASE 2: CONSTRUCT THE SECOND FRONTAGE ROAD AND CONVERT THE EXISTING FRONTAGE ROAD'S TRAFFIC DIRECTION TO ONE WAY.

PHASE 3: FUTURE; CONSTRUCT ISOLATED GRADE SEPARATIONS AT SPECIFIC HIGH-VOLUME INTERSECTIONS.

PHASE 4: ULTIMATE, FUTURE; CONSTRUCT CONTINUOUS MAINLANES, RAMPS AND DIRECT CONNECTORS IN BOTH DIRECTIONS.



SUPERELEVATION DATA

BASELINE	DESCRIPTION	
RP009WB13	WB LOOP 9 EXIT RAMP	
STATION	SLOPE (%)	CURVE
26+47.00	2.00	
28+12.00	3.40	RP009WB13-2
29+39.00	3.40	RP009WB13-2
31+04.00	2.00	

SUPERELEVATION DATA

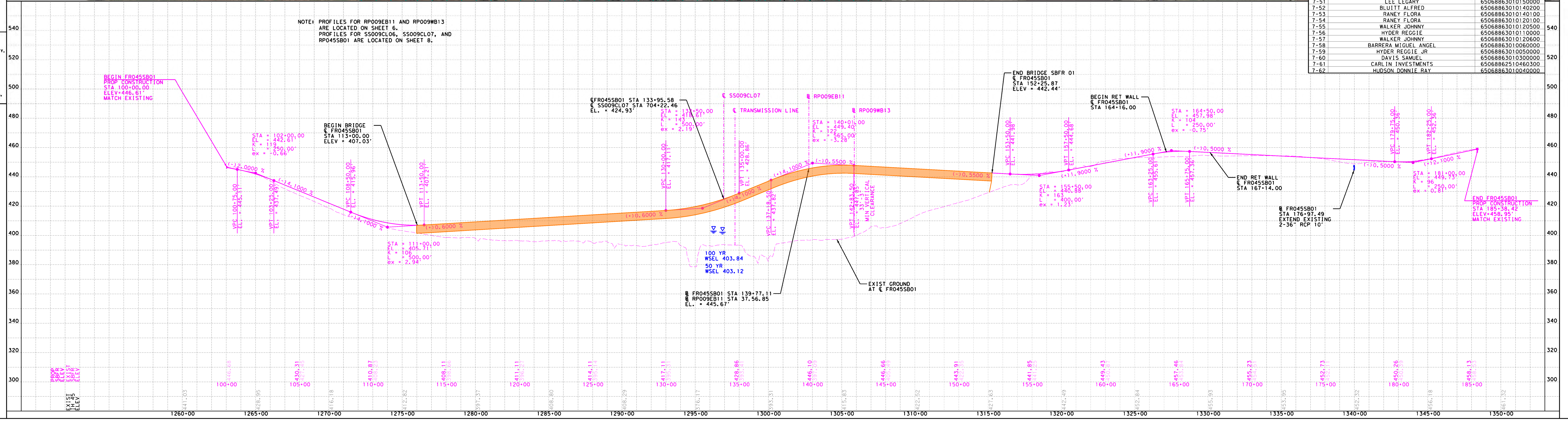
BASELINE	DESCRIPTION	
RP045SB01	SB IH 45 EXIT RAMP	
STATION	SLOPE (%)	CURVE
9+77.00	-2.00	
11+23.00	-2.80	RP045SB01-2
13+48.00	-2.80	RP045SB01-2
14+94.00	-2.00	
16+52.00	-2.00	
18+17.00	3.40	RP045SB01-3
19+44.00	3.40	RP045SB01-3
21+09.00	-2.00	
21+01.00	-2.00	
22+48.00	-2.80	RP045SB01-4
24+68.00	-2.80	RP045SB01-4
26+14.00	-2.00	

SUPERELEVATION DATA

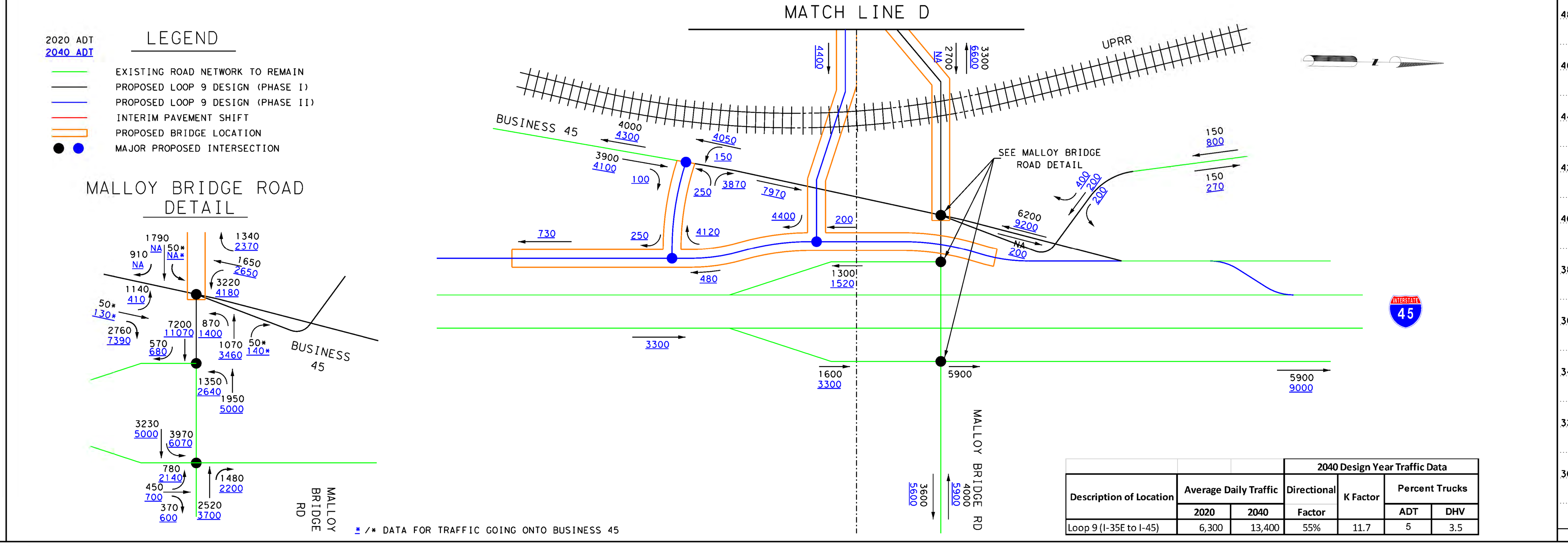
BASELINE	DESCRIPTION	
FR045SB01	WB LOOP 9 EXIT RAMP	
STATION	SLOPE (%)	CURVE
124+86.00	-2.00	
126+35.00	2.40	FR045SB01-2
129+32.00	2.40	FR045SB01-2
130+81.00	-2.00	

NUMBER	OWNER NAME	PARCEL NUMBER
7-1	BOLDEN LORA PERKINS	65068863010230000
7-2	JACKSON ROBERTA	65068863010240000
7-3	YOUNG CLYDE L ESTATE	65068863010250000
7-4	FERRIS ISD	65068863110640200
7-5	KING ELLA	65068862510400000
7-6	ELDRODGE MYRTLE	65068862510420000
7-7	WINN TOMMY JO	65068862510400000
7-8	NAVA ALFREDO	65068863110640000
7-9	FENDER H R	65068862510390000
7-10	GREEN WILLIAM L	65068863110630000
7-11	DIXON HOSIAH	65068862510380000
7-12	SMITH GRIFF	65068862510430000
7-13	CRUZ ALONZO	65068862510370000
7-14	RUNNELS KENNETH R	65068863110610000
7-15	TYRE MAUDE ELLEN	65068862510360000
7-16	JACKSON ROBERTA ET AL	65068863110620000
7-17	JEFFERSON JOSEPH	65068862510350000
7-18	HOLLAN ALVIN	65068862510590000
7-19	JARVIS L T	65068862510340000
7-20	HYDER FELIX	65068863110600000
7-21	RICHARDS JAMES & KATHLEEN	65068862510330000
7-22	RUNNELS JOHN L ESTATE OF	65068863110660000
7-23	JOHNSON HENRY	65068863110650000
7-24	JOHNSON HENRY	65068863110540000
7-25	JAVIS L T & DOROTHY RUTH	65068863110640100
7-26	WOOTEN ETHELQ	65068862510550000
7-27	JACKSON L T	65068862510352000
7-28	SMITH JAMES E	65068862510310000
7-29	GREEN ROSIE	65068863110670000
7-30	BROWN J L	65068862510440000
7-31	BRINKLEY LOUIS & IDA	65068863110580000
7-32	WILLIAMS EISSIE B	65068863110560000
7-33	DFW INLAND PORT 2 LLC	65145922010010100
7-34	RIVES DAVID G ET AL	65159354010020000
7-35	FERRIS ISD	65068863010275000
7-36	WILLIAMS MACK TROY ET AL	65068863010280000
7-37	PADEN BARBARA A	65068863010670000
7-38	URBINA ANTHONY MARK	65068863010290000
7-39	CARLIN INVESTMENTS	65068862510460200
7-40	COOK SHANNON	65068863010210000
7-41	WESBY GLADYS E	65068863010200000
7-42	FUENTES PEDRO & MARIA GUADALUPE	65068863010190200
7-43	NEW MT ZION BAPTIST CH	65068863010170200
7-44	FUENTES PEDRO & MARIA GUADALUPE	65068863010190100
7-45	URBINA JUAN JOSE	65068863010130000
7-46	HYDER GLADYS ESTATE	65068863010170100
7-47	FERRIS ISD	65068863010180000
7-48	CHURCH OF GOD IN CHRIST	65068863010120300
7-49	CRUZ JOSE MIGUEL GUILLEN & LORENA DELAROSA	65068863010120200
7-50	WALKER JOHNNY	65068863010120400
7-51	LEE LEGARY	65068863010150000
7-52	BLUITT ALFRED	65068863010140200
7-53	RANEY FLORA	65068863010140100
7-54	RANEY FLORA	65068863010120100
7-55	WALKER JOHNNY	65068863010120500
7-56	HYDER REGGIE	65068863010110000
7-57	WALKER JOHNNY	65068863010120600
7-58	BARRERA MIGUEL ANGEL	65068863010060000
7-59	HYDER REGGIE JR	65068863010050000
7-60	DAVIS SAMUEL	65068863010300000
7-61	CARLIN INVESTMENTS	65068862510460300
7-62	HUDSON DONNIE RAY	65068863010040000

NOTE: PROFILES FOR RP009EB11 AND RP009WB13 ARE LOCATED ON SHEET 6.
PROFILES FOR SS009CL06, SS009CL07, AND RP045SB01 ARE LOCATED ON SHEET 8.

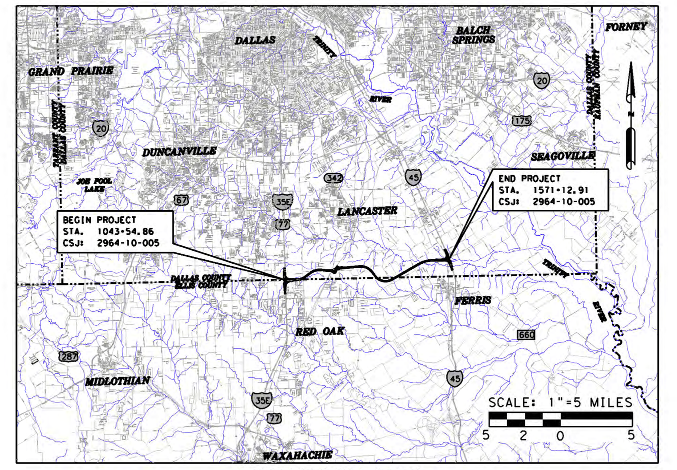


MATCH LINE D



Description of Location	Average Daily Traffic		2040 Design Year Traffic Data			
			Directional	K Factor	Percent Trucks	
	2020	2040	Factor		ADT	DHV
Loop 9 (I-35E to I-45)	6,300	13,400	55%	11.7	5	3.5

STATE OF TEXAS
DEPARTMENT OF TRANSPORTATION
DALLAS DISTRICT
DISTRICT ENGINEER, JAMES K. SELMAN, P.E.
STATE LOOP 9
DESIGN SCHEMATIC
FROM: IH 35E
TO: IH 45
CITIES OF LANCASTER, RED OAK, FERRIS AND WILMER
DALLAS AND ELLIS COUNTIES
CSJ: 2964-10-005



STATE OF TEXAS
DEPARTMENT OF TRANSPORTATION

DALLAS DISTRICT

DISTRICT ENGINEER, JAMES K. SELMAN, P.E.

STATE LOOP 9
DESIGN SCHEMATIC

FROM: IH 35E

TO: IH 45

CITIES OF LANCASTER, RED OAK, FERRIS AND WILMER

DALLAS AND ELLIS COUNTIES

CSJ: 2964-10-005

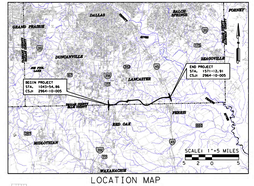
FUNCTIONAL CLASSIFICATION:
LOOP 9: RURAL FREEWAY
IH 35E: URBAN FREEWAY
IH 45: RURAL FREEWAY

LOOP 9, IH 35E, AND IH 45 DESIGN SPEED	
MAIN LANES:	70 MPH
FRONTAGE ROADS:	50 MPH
RAMPS:	50 MPH
BUSINESS 45:	50 MPH
SH 342:	50 MPH
HOUSTON SCHOOL RD:	40 MPH
NAKOMIS RD:	30 MPH
REINDEER RD:	30 MPH
LOCAL SIDE STREETS:	30 MPH
JUG HANDLES:	25 MPH
U-TURNS:	25 MPH

E MAX: 6%

PROJECT LENGTH: 10.00 MILES

PROJECT DESCRIPTION:
CONSTRUCT 0 TO 2 (ULTIMATE 6) LANE FRONTAGE ROADS.



LOCATION MAP

TEXAS COUNTY MAP
DALLAS DISTRICT

HORIZ. 1"=200'
VERT. 1"=20'

PHASE I & II

PRELIMINARY

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BY: J. BRYAN HUGHES, R.P.E.
No. 78870
DATE: 5/22/2017

ATKINS
TBPE REG. #F-474
16385 PRESTON RD, SUITE #500
DALLAS, TEXAS 75248
TELL: 1-972-818-1275
FAX: 1-972-380-2609

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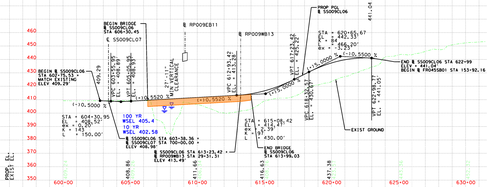
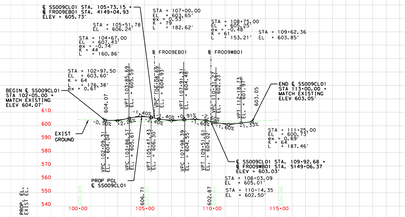
ROLL 8 OF 8
MARCH 2017

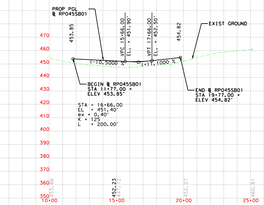


BUSINESS IH 45

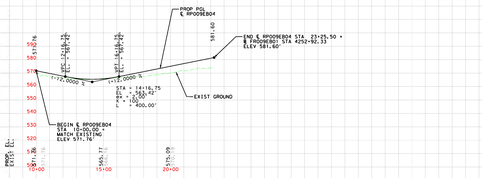
IH 45 TO BUSINESS 45 ACCESS RAMP



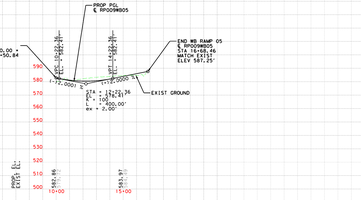
HOUSTON SCHOOL ROAD



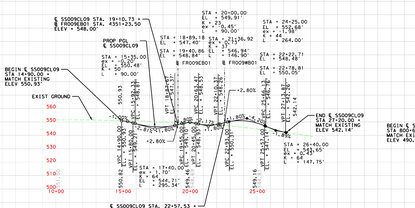
I-45 SB EXIT RAMP



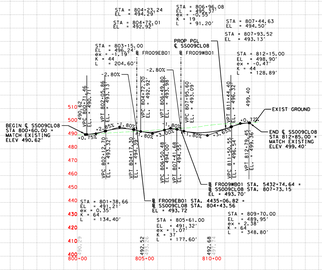
EB RAMP 04



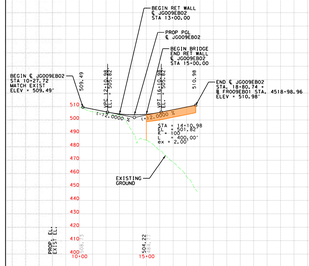
WB RAMP 05



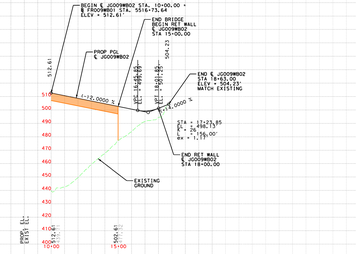
REINDEER RD



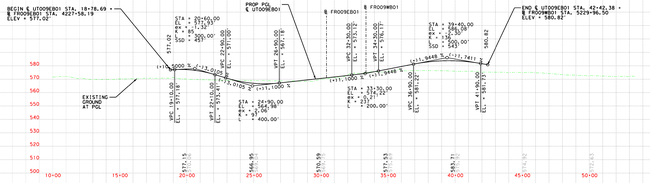
NOKOMIS RD



EB JUGHANDLE 02



WB JUGHANDLE 02



U-TURN WEST OF BNSFRR

STATE OF TEXAS
DEPARTMENT OF TRANSPORTATION

DALLAS DISTRICT

DISTRICT ENGINEER, JAMES K. SELMAN, P.E.

STATE LOOP 9
DESIGN SCHEMATIC

FROM: IH 35E

TO: IH 45

CITIES OF LANCASTER, RED OAK, FERRIS AND WILMER

DALLAS AND ELLIS COUNTIES

CSJ: 2964-10-005

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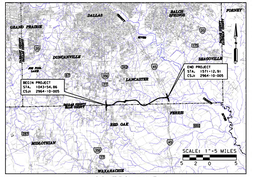

LOCATION MAP

TEXAS COUNTY MAP
DALLAS DISTRICT

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ROLL 8 OF 8
MARCH 2017

DGN:\\CDF-TWS-ISD1.atkins.com\ATKNETWT01\Documents\Roads and Bridges\Projects\100041650\Loop 9\IH35E to IH45\C 110 Sch\ADD\SCH\PRL\LP9SCH08.dgn
5/22/2017