PRELIMINARY SCHEMATIC

SHEET 1 OF 8

Texas Department of Transportation

LUFKIN DISTRICT
CSJ: 0176-03-097

STATE OF TEXAS
PRELIMINARY DESIGN SCHEMATIC
US 59

ANGELINA COUNTY
PROJECT LIMITS: APPROX 1 MILE NORTH OF LOOP 287 TO 0.5 MILE SOUTH
APPROX LENGTH OF PROJECT = 42,152 FT = 7.98 MI

CHERYL P. FLOOD, P.E. DISTRICT ENGINEER

VICINITY MAP N.T.S.

EXISTING: NONE
EXISTING: NONE
RAILROAD CROSSING: NONE

US 59 TRAFFIC VOLUMES

EXISTING (2012) ADT= 15000 (SB) 14450 (NB)
PROJECTED (2036) ADT= 22800 (SB), 22100 (NB)

ROADWAY	CURRENT DESIGN CLASSIFICATION	DESIGN SPEED
MAINLANES	PRINCIPAL ARTERIAL / RURAL FREEWAY	70 MPH
FRONTAGE ROADS	RURAL COLLECTOR / RURAL FREEWAY	50 MPH
RAMPS *	RAMPS	50 MPH
MINOR CROSS STREETS	LOCAL / URBAN STREETS	40 MPH
MAJOR CROSS STREETS	RURAL COLLECTOR / RURAL FREEWAY	45 MPH
CONNECTORS**	RAMP	45 MPH
TURNAROUNDS	TURNAROUNDS	15 MPH

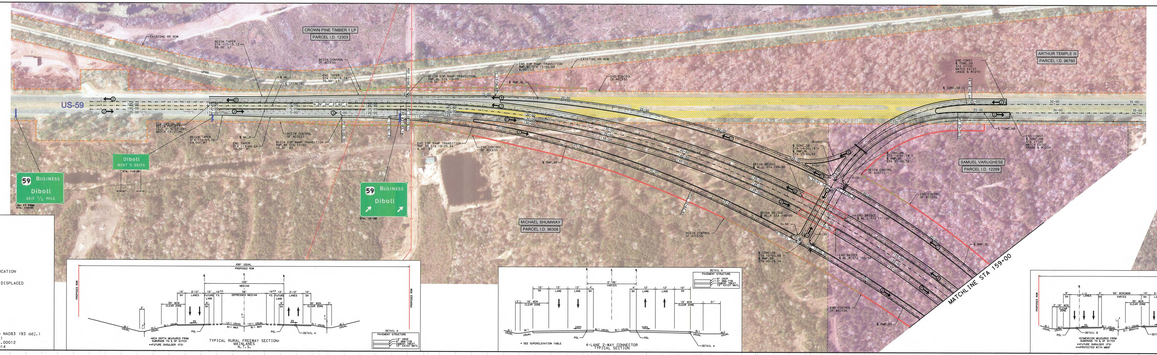
* RAMP "MAINLANE" DESIGN SPEED IS 50 MPH
** CONNECTORS "CONC_NB" & "CONC_SB" DESIGN SPEED ARE 50 MPH

HORZ SCALE 0 100 200
VERT SCALE 0 10 20

NOT A BIDDING DOCUMENT

SUBMITTAL DATE: APRIL 2016

ATKINS
ATKINS NORTH AMERICA, INC.
6504 BRIDGE POINT PARKWAY, SUITE 200
AUSTIN, TX 78730 TBPE REG. F-439

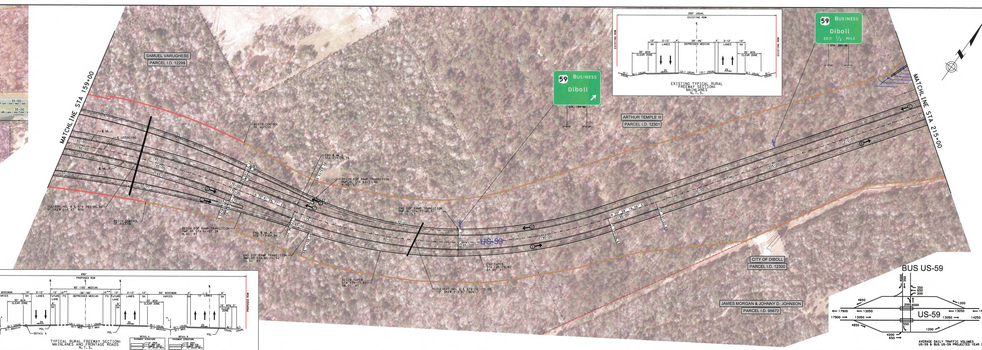


LEGEND

- EXISTING ROW
- EXISTING ROW
- CONTROL OF ACCESS
- EXISTING PROPERTY LINE
- PROPOSED RETAINING WALL
- MAINLANE LANES
- PROPOSED BRIDGE
- POND GRADING
- APPROXIMATE GAS PIPELINE LOCATION
- PARCEL
- POTENTIAL PROPERTIES TO BE DISPLACED DUE TO "LANDLOCK"
- PAVEMENT REMOVAL

GRID COORDINATE SYSTEM: State Plane NAD83 (93 adj.)
STATE PLANE ZONE: 4205 (TX CENTRAL)
SURFACE ADJUSTMENT SCALE FACTOR: 1.00012
DATE OF PHOTOGRAPHY: JANUARY 24, 2012

- EXISTING GROUND PROFILE @ E US59C100
- PROPOSED PROFILE GRADE LINE
- EXISTING GROUND PROFILE @ WL_L
- PROPOSED PROFILE GRADE LINE WL_L
- EXISTING GROUND PROFILE @ WL_R
- PROPOSED PROFILE GRADE LINE WL_R



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VICINITY MAP N.T.S.

EXISTING: NONE
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RAILROAD CROSSING: NONE

US 59 TRAFFIC VOLUMES

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SHEET 1 OF 8

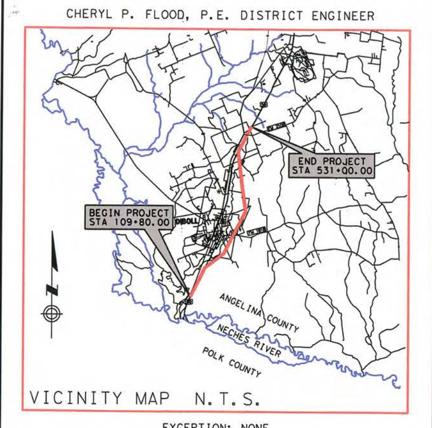
Texas Department of Transportation

LUFKIN DISTRICT
CSJ: 0176-03-097

STATE OF TEXAS
PRELIMINARY DESIGN SCHEMATIC FOR: US 59

ANGELINA COUNTY
PROJECT LIMITS: APPROX 1 MILE NORTH OF NECHES RIVER TO FM 2108
APPROX LENGTH OF PROJECT = 42,120 FT = 7.98 MI

CHERYL P. FLOOD, P.E. DISTRICT ENGINEER



VICINITY MAP N.T.S.

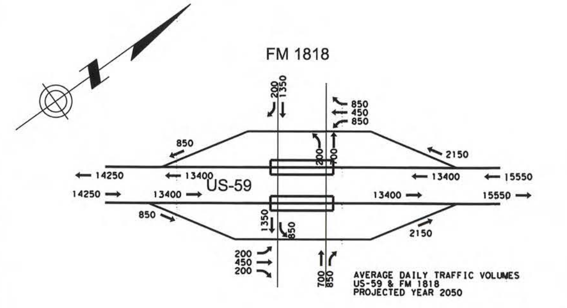
EXCEPTION: NONE
EQUATIONS: NONE
RAILROAD CROSSING: NONE

US 59 TRAFFIC VOLUMES
EXISTING (2020 ADT): 15000 (SB), 14450 (NB)
PROJECTED (2050 ADT): 22800 (SB), 22100 (NB)

NOT A BIDDING DOCUMENT

SUBMITTAL DATE: Feb 2016

ATKINS NORTH AMERICA, INC.
6504 BRIDGE POINT PARKWAY, SUITE 200
AUSTIN, TX 78730 TBPE REG. F-474



AVERAGE DAILY TRAFFIC VOLUMES
US-59 & FM 1818
PROJECTED YEAR 2050

LEGEND

- EXISTING ROW
- PROPOSED ROW
- CONTROL OF ACCESS
- EXISTING PROPERTY LINE
- PROPOSED RETAINING WALL
- NUMBER OF LANES
- PROPOSED BRIDGE
- POND GRADING
- APPROXIMATE GAS PIPELINE LOCATION
- PARCELS
- * POTENTIAL PROPERTIES TO BE DISPLACED DUE TO LANDLOCK
- PAVEMENT REMOVAL

CURVE AND COORDINATE DATA

ALIGNMENT NO.	CURVE NO.	PC STATION	PI STATION	PT STATION	DELTA	D	L	T	R
CL			102+31.42						
	CL-1	121+83.18	147+48.61	169+89.32	49° 36′ 59.15" RT	1° 01′ 56.48"	4,806.13′	2,565.43′	5,550.00′
	CL-2	173+96.22	184+43.71	194+06.61	39° 43′ 10.51" LT	1° 58′ 32.58"	2,010.39′	1,047.48′	2,900.00′
			197+22.89						
	CL-3	325+68.53	350+82.80	371+69.41	57° 23′ 31.16" LT	1° 14′ 50.69"	4,600.88′	2,514.27′	4,593.17′
	CL-4	482+10.00	493+35.64	502+88.39	54° 34′ 52.51" RT	2° 37′ 34.08"	2,078.39′	1,125.64′	2,181.75′
	CL-5	512+18.37	513+24.08	514+29.69	4° 20′ 29.87" LT	2° 03′ 16.43"	211.32′	105.71′	2,788.71′
ML_L			102+31.42						
	ML_L-1	122+19.17	147+93.84	170+42.62	49° 36′ 59.15" RT	1° 01′ 43.14"	4,823.45′	2,574.67′	5,570.00′
			174+29.26						
ML_R			102+31.42						
	ML_R-1	121+61.07	147+03.39	169+23.91	49° 36′ 59.15" RT	1° 02′ 30.27"	4,762.84′	2,542.31′	5,500.00′
			173+64.94						
RMP_8L			10+00.00						
	RMP_8L1	15+56.88	39+53.27	59+82.32	54° 31′ 44.08" RT	1° 13′ 55.80"	4,425.45′	2,396.39′	4,650.00′
	RMP_8L2	63+73.55	68+75.48	73+60.51	25° 42′ 14.25" LT	2° 36′ 15.67"	986.96′	501.93′	2,200.00′
			63+76.24						
RMP_8R	RMP_8R-1	10+00.00	21+47.55	32+62.65	23° 34′ 15.41" RT	1° 02′ 30.27"	2,262.65′	1,147.55′	5,500.00′
	RMP_8R-2	32+62.65	49+40.94	65+71.94	23° 31′ 28.74" RT	0° 42′ 39.12"	3,309.30′	1,678.29′	8,060.00′
			10+00.00						
CONC_NB	CONC_NB1	14+02.28	19+40.59	23+72.55	61° 46′ 09.25" RT	6° 21′ 58.31"	970.27′	538.31′	900.00′
			41+39.96						
CONC_SB			10+00.00						
	CONC_SB-1	14+03.76	20+01.88	24+81.84	61° 46′ 09.25" RT	5° 43′ 46.48"	1,078.08′	598.12′	1,000.00′
			41+60.44						
59TURN			10+05.98						
	59TURN-1	14+53.63	15+03.46	15+46.08	52° 58′ 17.84" LT	57° 17′ 44.81"	92.45′	49.83′	100.00′
	59TURN-2	18+13.70	20+22.27	20+38.44	128° 46′ 06.60" LT	57° 17′ 44.81"	224.74′	208.57′	100.00′
			20+38.44						
RMP_49R	RMP_49R-1	10+00.00	15+10.34	20+19.80	5° 50′ 34.78" RT	0° 34′ 22.65"	1,019.80′	510.34′	10,000.00′
	RMP_49R-2	23+86.06	28+45.37	33+03.88	5° 50′ 34.78" LT	0° 38′ 11.83"	917.82′	459.31′	9,000.00′
	RMP_49R-3	40+42.98	45+14.65	49+85.45	6° 00′ 00.00" LT	0° 38′ 11.83"	942.48′	471.67′	9,000.00′
	RMP_49R-4	53+85.62	57+00.06	60+13.94	6° 00′ 00.00" RT	0° 57′ 17.75"	628.32′	314.45′	6,000.00′
RMP_50L	RMP_50L-1	10+00.00	12+72.80	15+45.05	6° 14′ 45.09" LT	1° 08′ 45.30"	545.05′	272.80′	5,000.00′
	RMP_50L-2	20+40.19	25+03.94	29+66.78	6° 14′ 44.90" RT	0° 40′ 26.64"	926.58′	463.75′	8,500.00′
	RMP_50L-3	54+28.50	56+38.03	58+47.38	4° 00′ 00.00" RT	0° 57′ 17.75"	418.88′	209.52′	6,000.00′
	RMP_50L-4	69+27.30	70+35.04	71+42.77	2° 03′ 27.41" RT	0° 57′ 17.75"	215.47′	107.75′	6,000.00′
	RMP_50L-5	71+42.77	73+81.25	76+19.29	6° 03′ 27.41" LT	1° 16′ 16.37"	476.52′	238.48′	4,507.17′
RMP_76L	RMP_76L-1	10+00.00	16+22.99	22+32.22	20° 49′ 34.69" LT	1° 41′ 24.51"	1,232.22′	622.99′	3,390.00′
	RMP_76L-2	22+32.22	33+25.57	43+92.67	21° 42′ 59.57" LT	1° 00′ 18.68"	2,160.44′	1,093.34′	5,700.00′
	RMP_76L-3	57+58.12	61+45.74	65+33.05	4° 00′ 00.00" RT	0° 30′ 58.24"	774.93′	387.62′	11,100.00′
	RMP_76L-4	78+34.45	81+83.59	85+32.44	3° 59′ 57.05" LT	0° 34′ 22.65"	697.99′	349.14′	10,000.00′

CURVE AND COORDINATE DATA

ALIGNMENT NO.	PC COORDINATE "X"	PC COORDINATE "Y"	PI COORDINATE "X"	PI COORDINATE "Y"	PT COORDINATE "X"	PT COORDINATE "Y"	BEARING BACK	BEARING AHEAD
CL			4,025,677.5807	10,424,360.7949				N 26° 04′ 27.62" E
	4,027,663.0535	10,426,113.9194	4,027,663.0535	10,428,418.2479	4,030,148.8894	10,429,052.3060	N 26° 04′ 27.62" E	N 75° 41′ 26.77" E
	4,031,558.1572	10,429,152.8746	4,031,558.1572	10,429,411.7656	4,032,173.4267	10,430,259.5077	N 75° 41′ 26.77" E	N 35° 58′ 16.26" E
			4,032,359.2027	10,430,515.4770				N 35° 58′ 16.26" E
	4,041,381.2797	10,440,911.6143	4,041,381.2797	10,442,946.4430	4,040,463.0317	10,445,287.0337	N 35° 58′ 16.26" E	N 21° 25′ 14.89" W
	4,036,019.7451	10,455,564.9777	4,036,019.7451	10,456,612.8577	4,036,635.4513	10,457,555.1743	N 21° 25′ 14.89" W	N 33° 09′ 37.62" E
	4,037,201.9567	10,458,333.6977	4,037,201.9567	10,458,422.1911	4,037,252.9128	10,458,514.8077	N 33° 09′ 37.62" E	N 28° 49′ 07.75" E
ML_L			4,025,656.0233	10,424,371.3438				N 26° 04′ 27.62" E
	4,027,661.3749	10,426,156.7883	4,027,661.3749	10,428,469.4206	4,030,156.1688	10,429,105.7636	N 26° 04′ 27.62" E	N 75° 41′ 26.77" E
			4,030,530.8125	10,429,201.3234				
ML_R			4,025,699.1381	10,424,350.2460				N 26° 04′ 27.62" E
	4,027,664.7320	10,426,083.5064	4,027,664.7320	10,428,367.0751	4,030,128.1730	10,428,995.4210	N 26° 04′ 27.62" E	N 75° 41′ 26.77" E
			4,030,555.5280	10,429,104.4258				
RMP_8L			4,026,497.2898	10,426,172.4353				N 26° 04′ 27.62" E
	4,026,742.0572	10,426,672.6347	4,027,795.3600	10,428,825.1328	4,030,159.5958	10,429,216.3917	N 26° 04′ 27.62" E	N 80° 36′ 11.70" E
	4,030,545.5725	10,429,280.2673	4,031,040.7644	10,429,362.2169	4,031,451.4123	10,429,650.8327	N 80° 36′ 11.70" E	N 54° 53′ 57.45" E
			4,028,805.3710	10,430,861.2994				
RMP_8R	4,026,427.3129	10,425,756.4179	4,026,931.7055	10,426,787.1796	4,027,806.1998	10,427,530.2416	N 26° 04′ 27.62" E	N 49° 38′ 43.02" E
	4,027,806.1998	10,427,530.2416	4,029,085.1422	10,428,616.9651	4,030,691.5484	10,429,102.8877	N 49° 38′ 43.02" E	N 73° 10′ 11.76" E
			4,028,413.4991	10,427,998.3998				N 35° 42′ 01.78" W
CONC_NB	4,028,178.7474	10,428,325.0854	4,027,864.6171	10,428,762.2360	4,028,101.1774	10,429,245.7831	N 35° 42′ 01.78" W	N 26° 04′ 07.47" E
			4,028,877.8629	10,430,833.3872				
CONC_SB			4,028,413.4991	10,427,998.3998				N 35° 42′ 01.78" W
	4,028,177.8848	10,428,326.2858	4,027,828.8511	10,428,812.0087	4,028,091.6959	10,429,349.2832	N 35° 42′ 01.78" W	N 26° 04′ 07.47" E
			4,028,829.3565	10,430,857.1175				
59TURN			4,029,108.4848	10,428,901.1321				S 63° 02′ 42.81" W
	4,028,709.4643	10,428,698.2175	4,028,665.0500	10,428,675.6315	4,028,656.3346	10,428,626.5724	S 63° 02′ 42.81" W	S 10° 04′ 24.97" W
	4,028,609.5255	10,428,363.0847	4,028,573.0441	10,428,157.7311	4,028,755.9984	10,428,257.8745	S 10° 04′ 24.97" W	N 61° 18′ 18.37" E
			4,028,755.9984	10,428,257.8745				
RMP_49R	4,035,933.0193	10,434,900.6115	4,035,933.0193	10,435,313.6359	4,036,273.2715	10,435,693.9979	N 35° 58′ 16.26" E	N 41° 48′ 51.05" E
	4,036,823.6969	10,435,966.9829	4,036,823.6969	10,436,309.3086	4,037,093.4832	10,436,681.0306	N 41° 48′ 51.05" E	N 35° 58′ 16.26" E
	4,037,804.6606	10,437,279.1898	4,037,804.6606	10,437,660.9183	4,038,040.2901	10,438,069.5150	N 35° 58′ 16.26" E	N 29° 58′ 16.26" E
	4,038,397.2837	10,438,416.1670	4,038,397.2837	10,438,688.5648	4,038,581.9829	10,438,943.0505	N 29° 58′ 16.26" E	N 35° 58′ 16.26" E
RMP_50L	4,035,953.0222	10,435,613.5936	4,036,113.2575	10,435,834.3716	4,036,248.5222	10,436,071.2719	N 35° 58′ 16.45" E	N 29° 43′ 31.37" E
	4,036,494.0333	10,436,501.2561	4,036,723.9813	10,436,903.9832	4,036,996.3787	10,437,279.3029	N 29° 43′ 31.37" E	N 35° 58′ 16.26" E
	4,038,442.3437	10,439,271.6092	4,038,565.4139	10,439,441.1801	4,038,700.0130	10,439,601.7530	N 35° 58′ 16.26" E	N 39° 58′ 16.26" E
	4,039,393.7519	10,440,429.3638	4,039,462.9695	10,440,511.9383	4,039,535.1072	10,440,591.9744	N 39° 58′ 16.26" E	N 42° 01′ 43.67" E
	4,039,535.1072	10,440,591.9744	4,039,694.7725	10,440,769.1216	4,039,834.8522	10,440,962.1289	N 42° 01′ 43.67" E	N 35° 58′ 16.26" E
RMP_76L	4,040,616.0098	10,441,985.4175	4,040,616.0098	10,442,566.5512	4,040,619.2166	10,443,189.5288	N 21° 07′ 16.42" E	N 0° 17′ 41.72" E
	4,040,624.8444	10,443,189.5288	4,040,624.8444	10,444,282.8568	4,040,225.5249	10,445,300.6691	N 0° 17′ 41.72" E	N 21° 25′ 17.84" W
	4,039,585.2517	10,446,571.7976	4,039,585.2517	10,446,932.6406	4,039,469.1978	10,447,302.4800	N 21° 25′ 17.84" W	N 17° 25′ 17.84" W
	4,038,975.0248	10,448,544.1843	4,038,975.0248	10,448,877.3046	4,038,847.5152	10,449,202.3236	N 17° 25′ 17.84" W	N 21° 25′ 14.89" W

Texas Department of Transportation®

LUFKIN DISTRICT
CSJ: 0176-03-097

STATE OF TEXAS

PRELIMINARY DESIGN SCHEMATIC
FOR:
US 59

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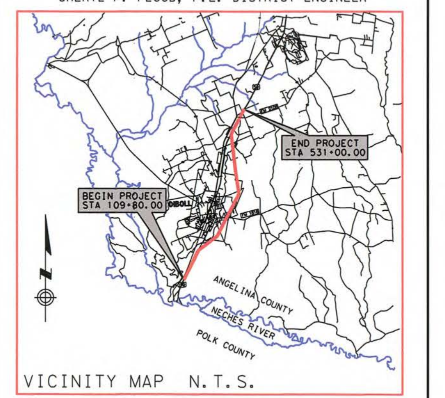

VICINITY MAP N.T.S.

EXCEPTION: NONE
EQUATIONS: NONE
RAILROAD CROSSING: NONE

US 59 TRAFFIC VOLUMES

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VERT SCALE 0 10 20

NOT A BIDDING DOCUMENT

STATE OF TEXAS
FELIPE S. TUDTUD
104836
LICENSED PROFESSIONAL ENGINEER
2-8-16

SUBMITTAL DATE: FEBRUARY 2016

ATKINS
ATKINS NORTH AMERICA, INC.
6504 BRIDGE POINT PARKWAY, SUITE 200
AUSTIN, TX 78730 TBPE REG. F-474

DATE: 2/8/2016
PLOT DRIVER: RD*Scroll*PDF.plt
PEN TABLE: plotdrdr.tbl
FILE: R:\Trans-Design\I 69 Schematic Diboll\CADD\SCH\DIBO*SCH02.DGN

Texas Department of Transportation®

LUFKIN DISTRICT
CSJ: 0176-03-097

STATE OF TEXAS
PRELIMINARY DESIGN SCHEMATIC FOR:
US 59

ANGELINA COUNTY
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CHERYL P. FLOOD, P.E. DISTRICT ENGINEER

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HORZ SCALE 0 100 200
VERT SCALE 0 10 20

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STATE OF TEXAS — FELIPE S. TUDTUD — 104836 — LICENSED PROFESSIONAL ENGINEER
2-8-16

SUBMITTAL DATE: FEB. 2016

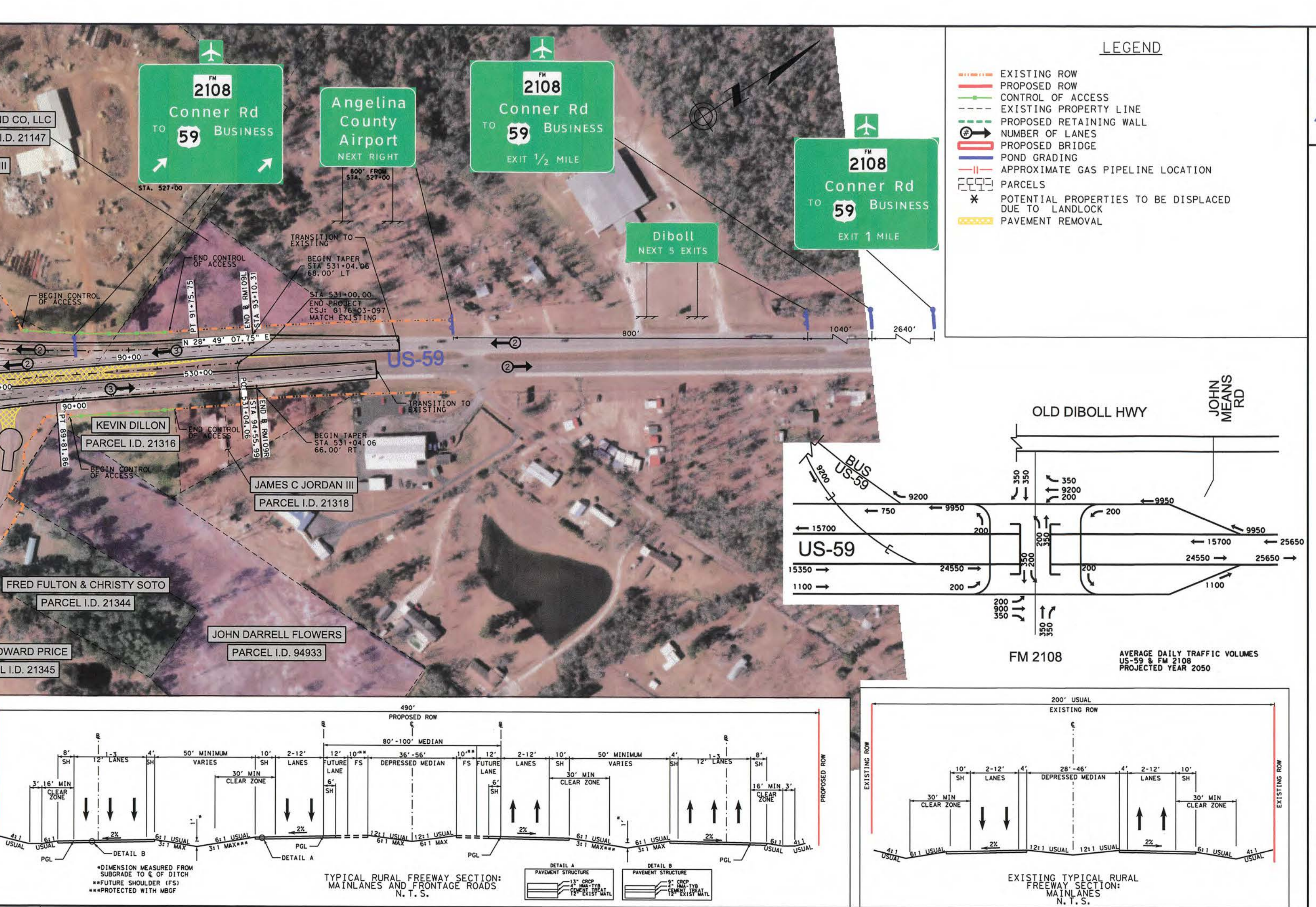
ATKINS NORTH AMERICA, INC.
6504 BRIDGE POINT PARKWAY, SUITE 200
AUSTIN, TX 78730 TBPE REG. F-474

DATE: 2/8/2016
PLOT DRIVER: RD*Scroll*PDF.plt
PEN TABLE: plotordr.tbl
FILE: R:\Trans-Design\I 69 Schematic Diboll\CADD\SCH\DIBO*SCH03.DGN

Texas Department of Transportation®
LUFKIN DISTRICT
CSJ: 0176-03-097
STATE OF TEXAS
PRELIMINARY DESIGN SCHEMATIC FOR:
US 59
ANGELINA COUNTY
NOT A BIDDING DOCUMENT
SUBMITTAL DATE: FEBRUARY 2016
ATKINS NORTH AMERICA, INC.
6504 BRIDGE POINT PARKWAY, SUITE 200
AUSTIN, TX 78730 TBPE REG. F-474
SHEET 3 OF 8

PRELIMINARY SCHEMATIC

Texas Department of Transportation
LUFKIN DISTRICT
CSJ: 0176-03-097
STATE OF TEXAS
PRELIMINARY DESIGN SCHEMATIC FOR: US 59
ANGELINA COUNTY



*DIMENSION MEASURED FROM SUBGRADE TO ℄ OF DITCH
**FUTURE SHOULDER (FS)
***PROTECTED WITH MBGF

DETAIL A PAVEMENT STRUCTURE: 13" CRCP, 4" HMA-TYB, CEMENT TREAT, 12" EXIST MATL

DETAIL B PAVEMENT STRUCTURE: 9" CRCP, 4" HMA-TYB, CEMENT TREAT, 12" EXIST MATL

CURVE AND COORDINATE DATA

ALIGNMENT NO.	CURVE NO.	PC STATION	PI STATION	PT STATION	DELTA	D	L	T	R	PC COORDINATE "X"	PC COORDINATE "Y"	PI COORDINATE "X"	PI COORDINATE "Y"	PT COORDINATE "X"	PT COORDINATE "Y"	BEARING BACK	BEARING AHEAD
59ALTC			41+61.25									4,037,064.7359	10,458,102.4872				
	59ALTC-1	100+00.00	101+99.42	103+98.46	6° 05' 16.71" RT	1° 31' 40.39"	398.46'	199.42'	3,750.00'	4,039,356.9058	10,439,910.6685	4,039,356.9058	10,440,072.0585	4,039,490.4942	10,440,220.1158	N 35° 58' 16.26" E	N 42° 03' 32.97" E
	59ALTC-2	112+14.62	135+34.29	153+69.38	63° 28' 47.87" LT	1° 31' 40.39"	4,154.75'	2,319.66'	3,750.00'	4,041,591.1782	10,440,826.0802	4,041,591.1782	10,442,548.3228	4,040,744.0026	10,444,707.7517	N 42° 03' 32.97" E	N 21° 25' 14.89" W
			172+89.05									4,040,042.9081	10,446,494.8236				
59ALTRMP			10+00.00									4,040,967.4179	10,442,670.0082				N 10° 11' 52.79" E
	59ALTRMP-1	16+25.40	23+70.79	30+74.22	33° 12' 16.40" LT	2° 17' 30.59"	1,448.82'	745.39'	2,500.00'	4,041,210.1161	10,443,285.5237	4,041,210.1161	10,444,019.1385	4,040,918.7902	10,444,705.2408	N 10° 11' 52.79" E	N 23° 00' 23.61" W
	59ALTRMP-2	58+02.37	58+94.52	59+86.65	2° 06' 41.91" LT	1° 08' 45.30"	184.28'	92.15'	5,000.00'	4,039,816.5131	10,447,216.3979	4,039,816.5131	10,447,301.2167	4,039,777.3973	10,447,384.6508	N 23° 00' 23.61" W	N 25° 07' 05.53" W
	59ALTRMP-3	64+73.58	66+34.96	67+96.24	3° 41' 50.63" RT	1° 08' 45.30"	322.66'	161.39'	5,000.00'	4,039,502.1958	10,447,825.5337	4,039,502.1958	10,447,971.6575	4,039,443.2555	10,448,121.8950	N 25° 07' 05.53" W	N 21° 25' 14.89" W
BS59	BS59-1	10+00.00	11+72.51	13+40.09	23° 42' 18.31" RT	6° 58' 13.04"	340.09'	172.51'	822.00'	4,036,126.3843	10,456,511.8693	4,036,126.3843	10,456,339.7040	4,036,047.1654	10,456,186.4571	S 3° 37' 51.67" W	S 27° 20' 09.98" W
			20+16.31									4,035,736.6356	10,455,585.7458				
CL_CR59C			100+00.00									4,035,647.2922	10,455,187.1079				S 62° 46' 26.00" E
	CL_CR59C-1	102+82.94	106+23.28	109+46.19	31° 40' 03.96" LT	4° 46' 28.73"	663.25'	340.33'	1,200.00'	4,036,201.5138	10,455,057.6605	4,036,201.5138	10,454,901.9574	4,036,540.8241	10,454,928.3140	S 62° 46' 26.00" E	N 85° 33' 30.04" E
	CL_CR59C-2	113+52.56	116+87.03	120+17.55	15° 14' 25.44" LT	2° 17' 30.59"	664.99'	334.47'	2,500.00'	4,037,279.4335	10,454,959.7846	4,037,279.4335	10,454,985.6871	4,037,594.3609	10,455,098.3362	N 85° 33' 30.04" E	N 70° 19' 04.60" E
CL_FM1818	CL_FM1818-1	100+00.00	100+78.24	101+56.47	0° 53' 47.51" RT	0° 34' 22.65"	156.47'	78.24'	10,000.00'	4,036,642.9688	10,437,376.9051	4,036,642.9688	10,437,364.7064	4,036,720.0502	10,437,351.2999	S 81° 01' 47.99" E	S 80° 08' 00.49" E
			112+82.60									4,037,832.3998	10,437,175.7180				
CL_FM2108			96+90.00									4,036,657.8384	10,458,815.8888				S 79° 32' 10.35" E
	CL_FM2108-1	97+20.82	98+84.27	100+44.99	18° 07' 13.35" RT	5° 35' 23.40"	324.17'	163.45'	1,025.00'	4,036,688.1485	10,458,810.2910	4,036,848.8784	10,458,780.6065	4,036,992.4045	10,458,702.4050	S 79° 32' 10.35" E	S 61° 24' 57.00" E
	CL_FM2108-2	106+55.88	110+65.76	114+17.94	52° 17' 27.00" LT	6° 51' 42.37"	762.06'	409.88'	835.00'	4,037,528.8357	10,458,410.1255	4,037,888.7605	10,458,214.0171	4,038,264.0561	10,458,378.8125	S 61° 24' 57.00" E	N 66° 17' 36.00" E
			118+57.66									4,038,666.6696	10,458,555.6033				
CL_LUM	CL_LUM-1	100+39.69	103+09.66	105+73.91	20° 24' 21.79" LT	3° 49' 10.99"	534.23'	269.97'	1,500.00'	4,040,330.5296	10,444,407.6352	4,040,330.5296	10,444,514.2219	4,040,525.8431	10,444,700.6054	N 66° 44' 46.66" E	N 46° 20' 24.87" E
			114+12.42									4,041,132.4646	10,445,279.4909				
CL_MOC			98+65.00									4,033,723.6055	10,433,469.4561				S 23° 48' 45.22" E
	CL_MOC-1	108+16.12	110+15.20	112+09.13	22° 31' 03.13" LT	5° 43' 46.48"	393.01'	199.07'	1,000.00'	4,034,187.9923	10,432,599.3000	4,034,187.9923	10,432,417.1752	4,034,331.9866	10,432,279.7159	S 23° 48' 45.22" E	S 46° 19' 48.35" E
			114+54.43									4,034,509.4215	10,432,110.3337				
CR59CT	CR59CT-1	10+00.00	10+74.29	11+27.79	73° 13' 12.27" LT	57° 17' 44.81"	127.79'	74.29'	100.00'	4,036,504.6057	10,455,062.4242	4,036,504.6057	10,454,993.3294	4,036,578.6408	10,454,999.5229	S 21° 33' 42.89" E	N 85° 13' 04.84" E
	CR59CT-2	12+52.64	13+88.42	14+39.84	107° 15' 24.84" LT	57° 17' 44.81"	187.20'	135.78'	100.00'	4,036,838.3571	10,455,009.9306	4,036,838.3571	10,455,021.2497	4,036,787.4084	10,455,147.1061	N 85° 13' 04.84" E	N 22° 02' 20.00" W
FM2108NSCT	FM2108NSCT-1	10+00.00	10+95.43	11+52.40	87° 19' 16.00" RT	57° 17' 44.81"	152.40'	95.43'	100.00'	4,037,107.6953	10,458,473.7429	4,037,107.6953	10,458,555.3163	4,037,191.4943	10,458,509.6577	N 31° 15' 47.00" E	S 61° 24' 57.00" E
	FM2108NSCT-2	12+48.29	13+52.03	14+09.04	92° 06' 06.00" RT	57° 17' 44.81"	160.75'	103.74'	100.00'	4,037,366.7853	10,458,463.7817	4,037,366.7853	10,458,414.1487	4,037,313.8451	10,458,324.9371	S 61° 24' 57.00" E	S 30° 41' 09.00" W
FM2108SNCT	FM2108SNCT-1	10+00.00	11+04.79	11+61.76	92° 40' 44.00" LT	57° 17' 44.81"	161.76'	104.79'	100.00'	4,037,184.5866	10,458,771.5366	4,037,184.5866	10,458,681.9642	4,037,276.6029	10,458,631.8282	S 31° 15' 47.00" W	S 61° 24' 57.00" E
	FM2108SNCT-2	12+64.81	13+64.43	14+21.51	89° 47' 02.63" LT	57° 17' 44.81"	156.70'	99.62'	100.00'	4,037,454.5771	10,458,582.5223	4,037,454.5771	10,458,534.8574	4,037,502.5714	10,458,622.1583	S 61° 24' 57.00" E	N 28° 48' 00.37" E
ML2L	ML2L		456+60.00									4,037,315.5964	10,453,172.8602				N 20° 45' 10.12" W
			478+90.15									4,036,525.3713	10,455,258.3147				
ML2R	ML2R		456+60.00									4,037,408.6887	10,453,209.3817				N 22° 05' 19.67" W
			478+90.15									4,036,570.0556	10,455,275.8450				
CL_JOHNMEANS			10+00.00									4,037,667.7369	10,459,449.2109				N 53° 55' 47.33" W
	CL_JOHNMEANS-1	10+20.40	10+96.41	11+59.68	57° 00' 01.38" LT	40° 55' 32.00"	139.28'	76.01'	140.00'	4,037,589.8072	10,459,461.2207	4,037,589.8072	10,459,505.9762	4,037,518.8085	10,459,478.8215	N 53° 55' 47.33" W	S 69° 04' 11.29" W

Texas Department of Transportation

LUFKIN DISTRICT
CSJ: 0176-03-097

STATE OF TEXAS
PRELIMINARY DESIGN SCHEMATIC FOR: US 59

ANGELINA COUNTY
PROJECT LIMITS: APPROX 1 MILE NORTH OF NECHES RIVER TO FM 2108
APPROX LENGTH OF PROJECT = 42,120 FT = 7.98 MI

CHERYL P. FLOOD, P.E. DISTRICT ENGINEER

VICINITY MAP N.T.S.

EXCEPTION: NONE
EQUATIONS: NONE
RAILROAD CROSSING: NONE

US 59 TRAFFIC VOLUMES
EXISTING (2020 ADT): 15000 (SB), 14450 (NB)
PROJECTED (2050 ADT): 22800 (SB), 22100 (NB)

ROADWAY	FUNCTIONAL / ROADWAY CLASSIFICATION	DESIGN SPEED
MAINLANES	PRINCIPAL ARTERIAL / RURAL FREEWAY	70 MPH
FRONTAGE ROADS	RURAL COLLECTOR / RURAL FRONTAGE	50 MPH
RAMPS *	RAMPS	60 MPH
MINOR CROSS STREETS	LOCAL / URBAN STREETS	40 MPH
MAJOR CROSS STREETS	RURAL COLLECTOR / RURAL HIGHWAY	45 MPH
CONNECTOR**	RAMP	45 MPH
TURNAROUNDS	TURNAROUNDS	15 MPH

* RAMP "RM109R" DESIGN SPEED IS 50 MPH
** CONNECTORS "CONC_NB" & "CONC_SB" DESIGN SPEEDS ARE 50 MPH

HORZ SCALE 0 100 200
VERT SCALE 0 10 20

NOT A BIDDING DOCUMENT

STATE OF TEXAS — FELIPE S. TUDTUD — 104836 — LICENSED PROFESSIONAL ENGINEER
2-9-16

SUBMITTAL DATE: FEBRUARY 2016

ATKINS — ATKINS NORTH AMERICA, INC.
6504 BRIDGE POINT PARKWAY, SUITE 200
AUSTIN, TX 78730
TBPE REG. F-474

SHEET 5 OF 8 PRELIMINARY SCHEMATIC

Texas Department of Transportation®

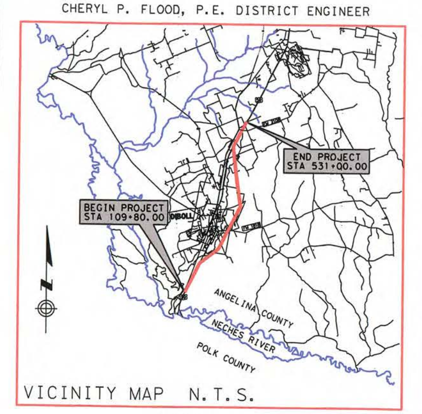
LUFKIN DISTRICT
CSJ: 0176-03-097

STATE OF TEXAS

PRELIMINARY DESIGN SCHEMATIC
FOR:
US 59

ANGELINA COUNTY
PROJECT LIMITS: APPROX 1 MILE NORTH OF NECHES RIVER TO FM 2108
APPROX LENGTH OF PROJECT = 42,120 FT = 7.98 MI

CHERYL P. FLOOD, P.E. DISTRICT ENGINEER



VICINITY MAP N.T.S.

EXCEPTION: NONE
EQUATIONS: NONE
RAILROAD CROSSING: NONE

US 59 TRAFFIC VOLUMES

EXISTING (2020 ADT): 15000 (SB), 14450 (NB)
PROJECTED (2050 ADT): 22800 (SB), 22100 (NB)

ROADWAY	FUNCTIONAL / ROADWAY CLASSIFICATION	DESIGN SPEED
MAINLANES	PRINCIPAL ARTERIAL / RURAL FREEWAY	70 MPH
FRONTAGE ROADS	RURAL COLLECTOR / RURAL FRONTAGE	50 MPH
RAMPS *	RAMPS	60 MPH
MINOR CROSS STREETS	LOCAL / URBAN STREETS	40 MPH
MAJOR CROSS STREETS	RURAL COLLECTOR / RURAL HIGHWAY	45 MPH
CONNECTOR**	RAMP	45 MPH
TURNAROUNDS	TURNAROUNDS	15 MPH

* RAMP "RM109R" DESIGN SPEED IS 50 MPH
** CONNECTORS "CONC_NB" & "CONC_SB" DESIGN SPEEDS ARE 50 MPH

HORZ SCALE 0 100 200
VERT SCALE 0 10 20

NOT A BIDDING DOCUMENT

STATE OF TEXAS
FELIPE S. TUDTUD
104836
LICENSED PROFESSIONAL ENGINEER
2-8-16

SUBMITTAL DATE: FEB. 2016

ATKINS
ATKINS NORTH AMERICA, INC.
6504 BRIDGE POINT PARKWAY, SUITE 200
AUSTIN, TX 78730
TBPE REG. F-474

DATE: 2/8/2016
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Texas Department of Transportation®
LUFKIN DISTRICT
CSJ: 0176-03-097
STATE OF TEXAS
PRELIMINARY DESIGN SCHEMATIC FOR: US 59
ANGELINA COUNTY
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SUBMITTAL DATE: FEBRUARY 2016
ATKINS NORTH AMERICA, INC.
6504 BRIDGE POINT PARKWAY, SUITE 200
AUSTIN, TX 78730
TBPE REG. F-474
SHEET 5 OF 8

Texas Department of Transportation®

LUFKIN DISTRICT
CSJ: 0176-03-097

STATE OF TEXAS

PRELIMINARY DESIGN SCHEMATIC
FOR:
US 59

ANGELINA COUNTY
PROJECT LIMITS: APPROX 1 MILE NORTH OF NECHES RIVER TO FM 2108
APPROX LENGTH OF PROJECT = 42,120 FT = 7.98 MI

CHERYL P. FLOOD, P.E. DISTRICT ENGINEER

VICINITY MAP N.T.S.

EXCEPTION: NONE
EQUATIONS: NONE
RAILROAD CROSSING: NONE

US 59 TRAFFIC VOLUMES

EXISTING (2020 ADT): 15000 (SB), 14450 (NB)
PROJECTED (2050 ADT): 22800 (SB), 22100 (NB)

ROADWAY	FUNCTIONAL / ROADWAY CLASSIFICATION	DESIGN SPEED
MAINLANES	PRINCIPAL ARTERIAL / RURAL FREEWAY	70 MPH
FRONTAGE ROADS	RURAL COLLECTOR / RURAL FRONTAGE	50 MPH
RAMPS *	RAMPS	60 MPH
MINOR CROSS STREETS	LOCAL / URBAN STREETS	40 MPH
MAJOR CROSS STREETS	RURAL COLLECTOR / RURAL HIGHWAY	45 MPH
CONNECTOR**	RAMP	45 MPH
TURNAROUNDS	TURNAROUNDS	15 MPH

* RAMP "RM109R" DESIGN SPEED IS 50 MPH
** CONNECTORS "CONC_NB" & "CONC_SB" DESIGN SPEEDS ARE 50 MPH

HORZ SCALE 0 100 200
VERT SCALE 0 10 20

NOT A BIDDING DOCUMENT

STATE OF TEXAS
FELIPE S. TUDTUD
104836
LICENSED
PROFESSIONAL ENGINEER
2-8-16

SUBMITTAL DATE: FEB. 2016

ATKINS
ATKINS NORTH AMERICA, INC.
6504 BRIDGE POINT PARKWAY, SUITE 200
AUSTIN, TX 78730
TBPE REG. F-474

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PLOT DRIVER: RO*Scroll*PDF.plt
DATE: 2/8/2016

SHEET 7 OF 8 PRELIMINARY SCHEMATIC

Texas Department of Transportation®

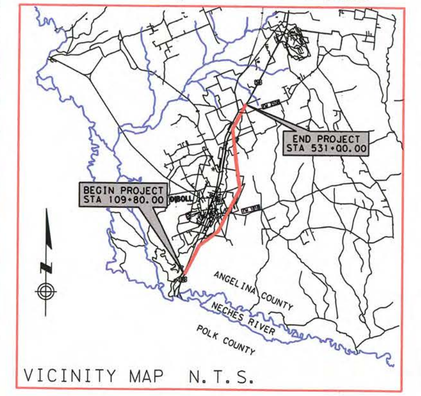
LUFKIN DISTRICT
CSJ: 0176-03-097

STATE OF TEXAS

PRELIMINARY DESIGN SCHEMATIC
FOR:
US 59

ANGELINA COUNTY
PROJECT LIMITS: APPROX 1 MILE NORTH OF NECHES RIVER TO FM 2108
APPROX LENGTH OF PROJECT = 42,120 FT = 7.98 MI

CHERYL P. FLOOD, P.E. DISTRICT ENGINEER



VICINITY MAP N.T.S.

EXCEPTION: NONE
EQUATIONS: NONE
RAILROAD CROSSING: NONE

US 59 TRAFFIC VOLUMES

EXISTING (2020 ADT): 15000 (SB), 14450 (NB)
PROJECTED (2050 ADT): 22800 (SB), 22100 (NB)

ROADWAY	FUNCTIONAL / ROADWAY CLASSIFICATION	DESIGN SPEED
MAINLANES	PRINCIPAL ARTERIAL / RURAL FREEWAY	70 MPH
FRONTAGE ROADS	RURAL COLLECTOR / RURAL FRONTAGE	50 MPH
RAMPS *	RAMPS	60 MPH
MINOR CROSS STREETS	LOCAL / URBAN STREETS	40 MPH
MAJOR CROSS STREETS	RURAL COLLECTOR / RURAL HIGHWAY	45 MPH
CONNECTOR**	RAMP	45 MPH
TURNAROUNDS	TURNAROUNDS	15 MPH

* RAMP "RM109R" DESIGN SPEED IS 50 MPH
** CONNECTORS "CONC_NB" & "CONC_SB" DESIGN SPEEDS ARE 50 MPH

HORZ SCALE 0 100 200
VERT SCALE 0 10 20

NOT A BIDDING DOCUMENT

STATE OF TEXAS
FELIPE S. TUDTUD
104836
LICENSED PROFESSIONAL ENGINEER
2-8-16

SUBMITTAL DATE: FEB. 2016

ATKINS
ATKINS NORTH AMERICA, INC.
6504 BRIDGE POINT PARKWAY, SUITE 200
AUSTIN, TX 78730 TBPE REG. F-474

DATE: 2/8/2016
PLOT DRIVER: RD*Scroll*PDF.plt
PEN TABLE: plotordr.tbl
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Texas Department of Transportation®

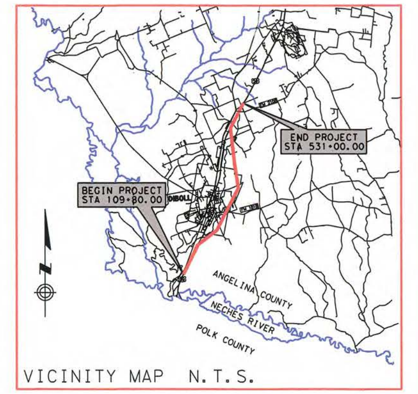
LUFKIN DISTRICT
CSJ: 0176-03-097

STATE OF TEXAS

PRELIMINARY DESIGN SCHEMATIC
FOR:
US 59

ANGELINA COUNTY
PROJECT LIMITS: APPROX 1 MILE NORTH OF NECHES RIVER TO FM 2108
APPROX LENGTH OF PROJECT = 42,120 FT = 7.98 MI

CHERYL P. FLOOD, P.E. DISTRICT ENGINEER



VICINITY MAP N.T.S.

EXCEPTION: NONE
EQUATIONS: NONE
RAILROAD CROSSING: NONE

US 59 TRAFFIC VOLUMES

EXISTING (2020 ADT): 15000 (SB), 14450 (NB)
PROJECTED (2050 ADT): 22800 (SB), 22100 (NB)

ROADWAY	FUNCTIONAL / ROADWAY CLASSIFICATION	DESIGN SPEED
MAINLANES	PRINCIPAL ARTERIAL / RURAL FREEWAY	70 MPH
FRONTAGE ROADS	RURAL COLLECTOR / RURAL FRONTAGE	50 MPH
RAMPS *	RAMPS	60 MPH
MINOR CROSS STREETS	LOCAL / URBAN STREETS	40 MPH
MAJOR CROSS STREETS	RURAL COLLECTOR / RURAL HIGHWAY	45 MPH
CONNECTOR**	RAMP	45 MPH
TURNAROUNDS	TURNAROUNDS	15 MPH

* RAMP "RM109R" DESIGN SPEED IS 50 MPH
** CONNECTORS "CONC_NB" & "CONC_SB" DESIGN SPEEDS ARE 50 MPH

HORZ SCALE 0 100 200
VERT SCALE 0 10 20

NOT A BIDDING DOCUMENT

SUBMITTAL DATE: FEBRUARY 2016

ATKINS NORTH AMERICA, INC.
6504 BRIDGE POINT PARKWAY, SUITE 200
AUSTIN, TX 78730 TBPE REG. F-474

SHEET 7 OF 8

PRELIMINARY SCHEMATIC

SHEET 8 OF 8

Texas Department of Transportation

LUFKIN DISTRICT
CSJ: 0176-03-097

STATE OF TEXAS

PRELIMINARY DESIGN SCHEMATIC
FOR:
US 59

ANGELINA COUNTY

PROJECT LIMITS: APPROX 1 MILE NORTH OF MOCKINGBIRD LANE TO FM 2108
APPROX LENGTH OF PROJECT = 41,120 FT = 7.98 MI

CHERYL P. FLOOD, P.E. DISTRICT ENGINEER

VICINITY MAP N.T.S.

EXISTING: NONE
EQUATIONS: NONE
RAILROAD CROSSING: NONE

US 59 TRAFFIC VOLUMES

EXISTING (2015 ADT): 15500 (SB), 14450 (NB)
PROJECTED (2035 ADT): 20900 (SB), 22100 (NB)

ROADWAY	FUNCTIONAL / ROADWAY CLASSIFICATION	DESIGN SPEED
MAINLANES	PRINCIPAL ARTERIAL / RURAL FREWAY	70 MPH
FRONTAGE ROADS	RURAL COLLECTOR / RURAL FRONTAGE	50 MPH
RAMPS *	RAMPS	60 MPH
MINOR CROSS STREETS	LOCAL / URBAN STREETS	40 MPH
MAJOR CROSS STREETS	RURAL COLLECTOR / RURAL HIGHWAY	45 MPH
CONNECTOR**	RAMP	45 MPH
TURNAROUNDS	TURNAROUNDS	15 MPH

* RAMP "RMP1000" DESIGN SPEED IS 50 MPH
** CONNECTORS "CONC_NB" & "CONC_SB" DESIGN SPEEDS ARE 50 MPH

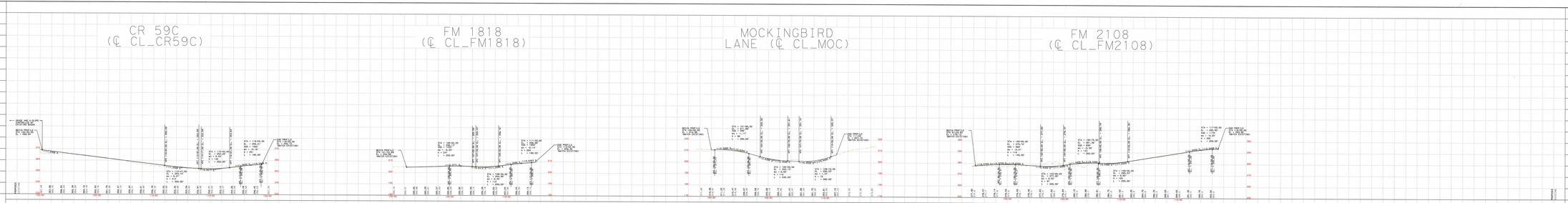
HORZ SCALE 0 100 200
VERT SCALE 0 10 20

NOT A BIDDING DOCUMENT

STATE OF TEXAS
TELPH N. TAPIA
108808
LICENSED
PROFESSIONAL ENGINEER
2-9-16

SUBMITTAL DATE: FEB 2016

ATKINS ATKINS NORTH AMERICA, INC.
8504 BRIDGE POINT PARKWAY, SUITE 200
AUSTIN, TX 78730 TBPE REG. F-439



Texas Department of Transportation

LUFKIN DISTRICT
CSJ: 0176-03-097

STATE OF TEXAS

PRELIMINARY DESIGN SCHEMATIC
FOR:
US 59

ANGELINA COUNTY

PROJECT LIMITS: APPROX 1 MILE NORTH OF MOCKINGBIRD LANE TO FM 2108
APPROX LENGTH OF PROJECT = 41,120 FT = 7.98 MI

CHERYL P. FLOOD, P.E. DISTRICT ENGINEER

VICINITY MAP N.T.S.

EXISTING: NONE
EQUATIONS: NONE
RAILROAD CROSSING: NONE

US 59 TRAFFIC VOLUMES

EXISTING (2015 ADT): 15500 (SB), 14450 (NB)
PROJECTED (2035 ADT): 20900 (SB), 22100 (NB)

ROADWAY	FUNCTIONAL / ROADWAY CLASSIFICATION	DESIGN SPEED
MAINLANES	PRINCIPAL ARTERIAL / RURAL FREWAY	70 MPH
FRONTAGE ROADS	RURAL COLLECTOR / RURAL FRONTAGE	50 MPH
RAMPS *	RAMPS	60 MPH
MINOR CROSS STREETS	LOCAL / URBAN STREETS	40 MPH
MAJOR CROSS STREETS	RURAL COLLECTOR / RURAL HIGHWAY	45 MPH
CONNECTOR**	RAMP	45 MPH
TURNAROUNDS	TURNAROUNDS	15 MPH

* RAMP "RMP1000" DESIGN SPEED IS 50 MPH
** CONNECTORS "CONC_NB" & "CONC_SB" DESIGN SPEEDS ARE 50 MPH

HORZ SCALE 0 100 200
VERT SCALE 0 10 20

NOT A BIDDING DOCUMENT

STATE OF TEXAS
TELPH N. TAPIA
108808
LICENSED
PROFESSIONAL ENGINEER
2-9-16

SUBMITTAL DATE: FEBRUARY 2016

ATKINS ATKINS NORTH AMERICA, INC.
8504 BRIDGE POINT PARKWAY, SUITE 200
AUSTIN, TX 78730 TBPE REG. F-439

SHEET 8 OF 8