Texas Department of Transportation

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WACO DISTRICT

STANLEY SWIATEK, P.E.
DISTRICT ENGINEER

HAMILTON TRUCK/RELIEF ROUTE DESIGN SCHEMATIC

HAMILTON COUNTY

US 281

CSJ : 0251-01-064
FROM CR 102 TO SH 36
PROJECT LENGTH: 2.234 MILES

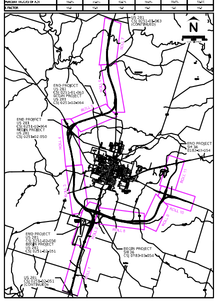
CSJ : 0251-02-050
FROM SH36 TO FM 3302
PROJECT LENGTH: 2.326 MILES

SH 36

CSJ : 0183-03-054
FROM US 281
TO 0.1 MILE EAST OF SH 22
PROJECT LENGTH: NULL MILES

ROADWAY TYPE	FUNCTIONAL CLASS	DESIGN SPEED
US 281 RELIEF ROUTE	RURAL FREEWAY	75 MPH
SH 36 RELIEF ROUTE	RURAL FREEWAY	75 MPH
US 281 GENERAL PURPOSE LANES	PRINCIPAL ARTERIAL	70 MPH
SH 36 SPUR	PRINCIPAL ARTERIAL	70 MPH
SH 22	PRINCIPAL ARTERIAL	70 MPH
DIRECT CONNECTORS	PRINCIPAL ARTERIAL	50 MPH
RAMPS	PRINCIPAL ARTERIAL	50 MPH
CR 101	RURAL COLLECTOR	50 MPH
CR 102	RURAL COLLECTOR	50 MPH
FRONTAGE ROAD	RURAL COLLECTOR	40 MPH
FM 218	LOCAL ROAD	40 MPH
FM 932	LOCAL ROAD	40 MPH
FM 1241	LOCAL ROAD	40 MPH
FM 2005	LOCAL ROAD	40 MPH
FM 3302	LOCAL ROAD	40 MPH

TRAFFIC VOLUMES BASED ON YEAR AND PROJECTIONS APPROVED BY TXDOT TP&P DIVISION DATE [illegible]	US 281 FROM NORTH PROJECT LIMITS TO JCT US 281 BUSINESS NORTH	US 281 RELIEF ROUTE FROM JCT US 281 BUSINESS NORTH TO JCT SH 36 WEST	US 281 RELIEF ROUTE FROM JCT SH 36 WEST TO JCT US 281 BUSINESS SOUTH	US 281 FROM JCT US 281 BUSINESS SOUTH TO SOUTH PROJECT LIMITS	SH 36 RELIEF ROUTE FROM JCT US 281 SOUTH TO JCT SH 36 EAST	SH 36 SPUR RELIEF ROUTE FROM JCT S - 36 EAST TO JCT SH 22 EAST
AVERAGE DAILY TRAFFIC (ADT) MAINLANES [illegible]	5,000 (7,000)	3,000 (4,200)	4,200 (5,700)	5,500 (7,500)	2,500 (3,500)	900 (1,300)
AVERAGE DAILY TRAFFIC (ADT) FRONTAGE ROADS [illegible]	N/A	N/A	N/A	N/A	1,000 (1,400)	N/A
DIRECTIONAL DISTRIBUTION	54%	54%	54%	54%	54%	54%
PERCENT TRUCKS OF ADT	19.0%	35.0%	42.0%	19.0%	19.0%	19.0%
K FACTOR	10.2	15.9	10.2	10.2	10.6	10.2



PROJECT LOCATION MAP/KEY MAP

INDEX OF ROLLS

ROLL 1 OF 11 PLAN & PROFILE US 281 - STA 1000+00 TO STA 1110+00
ROLL 2 OF 11 PLAN & PROFILE US 281 - STA 1110+00 TO STA 1210+00; SH 36 BEGIN TO STA 2034+00
ROLL 3 OF 11 PLAN & PROFILE US 281 - STA 1210+00 TO STA 1316+00
ROLL 4 OF 11 PLAN & PROFILE US 281 - STA 1316+00 TO STA 1416+00
ROLL 5 OF 11 PLAN & PROFILE US 281 - STA 1416+00 TO STA 1505+00
ROLL 6 OF 11 PLAN & PROFILE US 281 - STA 1505+00 TO STA 1612+00
ROLL 7 OF 11 PLAN & PROFILE US 281 - STA 1612+00 TO STA 1717+00
ROLL 8 OF 11 PLAN & PROFILE SH 36 - STA 2034+00 TO STA 2142+00
ROLL 9 OF 11 PLAN & PROFILE SH 36 - STA 2142+00 TO STA 2209+00
ROLL 10 OF 11 PLAN & PROFILE SH 36 - STA 2209+00 TO END; SH 36 SPUR BEGIN TO STA 3020+00
ROLL 11 OF 11 PLAN & PROFILE SH 36 SPUR - STA 3020+00 TO END

Texas Department of Transportation   Bartlett & West

September 09, 2024

NOT INTENDED FOR CONSTRUCTION, BIDDING, AND/OR PERMIT PURPOSES

PRELIMINARY
THIS DRAWING IS A REPRESENTATION OF EXISTING AVAILABLE INFORMATION ONLY. RECOMMENDED SOLUTIONS AND DEPICTIONS ARE PRELIMINARY CONCEPTS AND SUBJECT TO CHANGE.

CHAD HENDERSON, P.E.
TX PE LICENSE NO. 97332

TIMOTHY M. NESBITT, P.E.
TX PE LICENSE NO. 66648

LEGEND

- PROPOSED MAINLANES
- PROPOSED FRONTAGE ROADS
- PROPOSED INTERSECTING ROADWAYS
- PROPOSED RAMPS
- PROPOSED DIRECT CONNECTORS
- PROPOSED SIDEWALKS
- PROPOSED BRIDGE
- EXISTING MAINLANES TO REMAIN
- EXISTING ROADWAYS TO BE REMOVED
- PROPERTY LINE (APPROXIMATE)
- EXISTING RIGHT-OF-WAY (R.O.W.)
- PROPOSED RIGHT-OF-WAY (R.O.W.)
- PROPOSED DENIAL-OF-ACCESS
- CITY/COUNTY LIMITS
- EASEMENTS
- CREEKS AND TRIBUTARIES
- EXISITING DRAINAGE STRUCTURES
- PROPOSED DRAINAGE STRUCTURES
- PROPOSED DIRECTION OF TRAFFIC
- EXISTING DIRECTION OF TRAFFIC
- EXISTING BUILDING OUTLINE
- VEGETATION
- POTENTIAL DISPLACEMENT
- CEMETERY
- HISTORIC MARKER
- PETROLEUM STORAGE TANK (TCEQ)
- GAS/OIL WELL
- COURTHOUSE/ NATIONAL REGISTRY PROPERTY
- PLACE OF WORSHIP
- MUSEUM
- HEALTH CARE
- FIRE STATION
- SCHOOL
- PARK
- POLICE STATION

LEGEND OF UTILITY TYPES

QUALITY LEVELS
- QUALITY LEVEL "B" — X#
- QUALITY LEVEL "C" — X# (C)
- QUALITY LEVEL "D" — X# (D)
- ABANDONED UTILITY — X—X—X—X
- PROPOSED UTILITY
- UNKNOWN UTILITY

COMMUNICATIONS QL "B"
- LUMEN (TELE) — T1
- CENTRAL TEXAS TELE COOP (TELE) — T2
- FIBERLIGHT (FO/DUCT) — FOC1
- CENTRAL TEXAS TELE COOP (FO/DUCT) — FOC2
- LUMEN (FO/DUCT) — FOC3
- PATHWAY (FO/DUCT) — FOC4

ELECTRIC / POWER QL "B"
- TEXAS NEW MEXICO POWER — E1
- TXDOT — E2
- OLD STEEL ELECTRIC — E3

GAS / PETROLEUM QL "B"
- ATMOS — G1
- CHAPARRAL — PL1
- MAGELLAN — PL2
- SHIN OAK — PL3
- SUNOCO — PL4

SANITARY SEWER QL "B"
- CITY OF HAMILTON — WW1
- CITY OF HICO — WW2

POTABLE WATER QL "B"
- MULTI-COUNTY WSC — W1
- CITY OF HICO — W2
- CITY OF HAMILTON — W3

TRAFFIC SIGNALS QL "B"
- OWNER — TS1

OVERHEAD UTILITY QL "C"/QL "D" — OH
1 - HCEC
2 - FIBERLIGHT
3 - CENTRAL TEXAS TELE COOP
4 - LUMEN
5 - PATHWAY TELECOM
6 - NCEC
7 - TEXAS NEW MEXICO POWER
8 - TXDOT
9 - UCS ELECTRIC
10 - UNKNOWN OWNER

LEGEND OF UTILITY SYMBOLS

END CAP
QUALITY LEVEL CHANGE
TEST HOLE
UTILITY CONTINUATION

CATV CABINET
CATV HANDHOLE
CATV PEDESTAL

FIBER HANDHOLE
FIBER PEDESTAL
FIBER CABINET
TELEPHONE CABINET
TELEPHONE HANDHOLE (VAULT)
TELEPHONE MANHOLE
TELEPHONE PEDESTAL
TELEPHONE POLE
TELEPHONE POLE W/RISER

ELECTRIC HANDHOLE
ELECTRIC JUNCTION BOX (CABINET)
ELECTRIC MANHOLE
ELECTRIC POLE (POWER)
ELECTRIC POLE W/RISER
LIGHT POLE
SIGNAL POLE
SIGNAL HANDHOLE/BOX
TRANSMISSION POLE

GAS METER
GAS TEST STATION
GAS VALVE
GAS VENT PIPE (GAS RISER)

STORM INLET
STORM OUTFALL
STORM MANHOLE
WASTE WATER CLEANOUT
WASTE WATER MANHOLE

FIRE HYDRANT
WATER MANHOLE
WATER METER
WATER VALVE
WATER VAULT

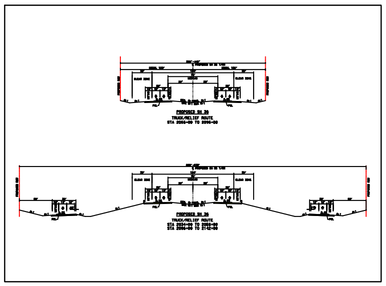
GENERAL NOTES

1. DEPICTION OF BRIDGE STRUCTURES ARE PRELIMINARY. FINAL CONFIGURATION, STRUCTURE DEPTH AND CLEARANCES TO BE DETERMINED IN FINAL DESIGN DRAWINGS.

2. FINAL RESTORATION/LOCATION OF DRIVEWAYS TO BE DETERMINED IN FINAL DESIGN DRAWINGS.

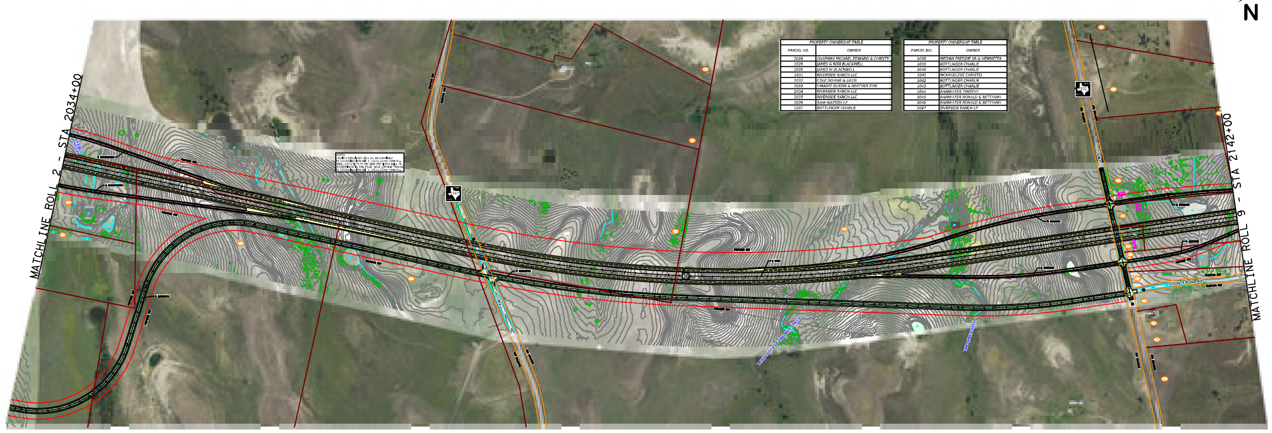
3. PGL INDICATES PROFILE GRADE LINE.

4. AERIAL SURVEYS PERFORMED



GEOMETRIC DATA TABLE

CHAIN NAME	CURVE NO.	DELTA	DEGREE (DEC)	DEGREE	TANGENT	LENGTH	RADIUS	BACK BEARING	AHEAD BEARING	PI STATION	PC STATION
	MAINLANES										
SH 36		20° 37'08.06"	0.499999921	00° 30'00.00"	2084.30'	4125.67'	11459.16'	S70° 18'15.09"E	N89° 04'38.94"E	2092+14.66	2071+30.19
	FRONTAGE ROADS										
36RRE0FR1		82° 27'42.96"		-06° 46'00.00"	743.90'	1221.66'	-848.83'	S72° 34'02.44"E	N24° 58'15.00"E	20+05.01	12+59.11
		84° 43'30.00"		06° 46'00.00"	774.07'	1255.19'	848.83'	N24° 58'15.00"E	S70° 18'16.00"E	38+10.86	30+36.8
		01° 18'26.36"		-00° 29'29.12"	133.06'	266.14'	-11659.16'	S70° 18'15.09"E	S71° 36'43.36"E	63+39.06	62+06.00
36RRE0FR2		00° 56'00.64"		-00° 29'29.12"	910.00'	1816.23'	-11659.16'	S71° 36'43.36"E	S80° 32'50.00"E	73+83.08	64+72.72
		10° 22'31.06"		-01° 00'00.00"	520.16'	1037.53'	-5729.58'	S80° 32'50.00"E	N89° 04'38.94"E	112+62.02	107+41.03
	RAMPS										
BUS281-36RRE		04° 35'15.46"		-01° 00'00.00"	229.50'	458.76'	-5729.58'	S70° 18'15.09"E	S74° 53'30.46"E	19+06.78	16+76.27
		04° 35'15.46"		02° 00'00.00"	114.76'	229.39'	2864.79'	S74° 53'30.46"E	S70° 18'16.00"E	39+18.44	38+03.69
36RRWBUS281		07° 00'00.00"		01° 30'00.00"	233.62'	466.67'	3819.72'	S70° 18'15.09"E	S63° 18'16.00"E	19+22.48	16+88.85
		07° 00'00.00"		-02° 00'00.00	175.32'	350.00'	-2864.79'	S63° 18'15.09"E	S70° 18'16.00"E	33+25.04	31+49.82
36RRE332		06° 24'33.36"		02° 00'00.00"	160.40'	320.46'	2864.79'	S80° 03'44.58"E	S87° 39'11.69"E	11+60.40	10+00.00
		09° 16'09.47"		-01° 00'00.00"	464.46'	926.95'	-5729.58'	S87° 39'11.69"E	N89° 04'38.94"E	24+60.76	19+96.29
93236RRW		16° 22'25.70"		-01° 00'00.00"	824.31'	1637.36'	-5729.58'	S84° 25'07.08"E	N79° 12'27.24"E	18+24.31	10+00.00
		09° 52'11.70"		01° 00'00.00"	494.72'	986.99'	5729.58'	N79° 12'27.24"E	N89° 04'38.94"E	31+32.10	26+37.38
93236RRE		15° 40'33.97"		-03° 00'00.00"	262.91'	522.54'	-1909.86'	N89° 04'38.94"E	N73° 24'04.97"E	16+89.52	13+26.61
		07° 16'07.73"		01° 00'00.00"	363.93'	726.89'	5729.58'	N73° 24'04.97"E	N80° 40'12.71"E	22+13.09	18+49.16
RR36W332		09° 39'11.66"		01° 00'00.00"	482.97'	963.66'	5729.58'	N89° 04'38.94"E	S81° 17'09.21"E	19+75.06	14+92.08
		32° 18'19.73"		-04° 00'00.00"	414.07'	807.64'	-1432.39'	S81° 17'09.21"E	N66° 24'31.07"E	28+70.61	24+55.74

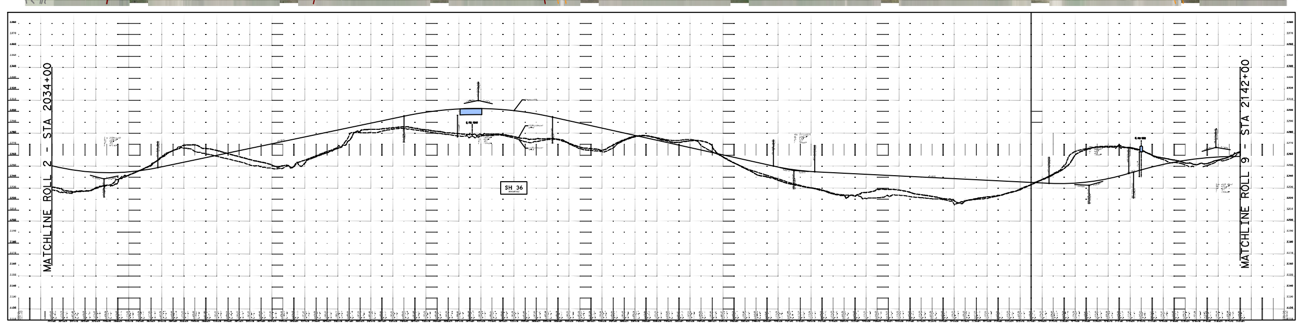


PARCEL NO.	OWNER
1028	CHAPMAN MICHAEL EDWARD & CHRISTY
1029	JAMES & RITA BLACKWELL
1030	JAMES W BLACKWELL
1031	RIVERSIDE RANCH LLC
1032	COLE DONNIE & LILLIS
1033	VAUGHT DUSTIN & HEATHER FINK
1034	RIVERSIDE RANCH LLC
1035	RIVERSIDE RANCH LLC
1036	SAW-WATSON LP
1037	BOTTLINGER CHARLIE

PROPERTY OWNERSHIP TABLE

PARCEL NO.	OWNER
1038	MEDINA FREDDIE SR & HENRIETTA
1039	BOTTLINGER CHARLIE
1040	BOTTLINGER CHARLIE
1041	MCKANDLESS CHRISTEL
1042	BOTTLINGER CHARLIE
1043	BOTTLINGER CHARLIE
1044	RAINWATER TIMOTHY
1045	RAINWATER RONALD & BETTYANN
1046	RAINWATER RONALD & BETTYANN
1047	RIVERSIDE RANCH LP

PROPERTY OWNERSHIP TABLE



US 281/SH 36 HAMILTON TRUCK/RELIEF ROUTE PROJECT

COUNTY: HAMILTON
DATE: 9/9/2024

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