SHEET 1 OF 4

WILLIAMSON COUNTY

WILLIAMSON COUNTY

PRELIMINARY DESIGN FOR:

FM 3349 at US 79

PCT 2

PRECINCT 4

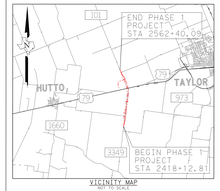
COUNTY: WILLIAMSON
LIMITS:FM 3349 FROM CR 404 TO NORTH OF CR 395
APPROX. LENGTH OF PROJECT = 2.73 MI
APPROX. LENGTH OF BRIDGE = 0.24 MI
FUNCTIONAL CLASSIFICATION = FREEWAY
ROADWAY CLASSIFICATION = RURAL
TERRAIN = ROLLING
MAXIMUM SUPERELEVATION RATE (emax) = 6.0%
FM 3349 AND US 79: TxDOT ROM (APRIL 2018)
COUNTY ROADS: WILLIAMSON COUNTY DCM

DESIGN SPEED CRITERIA

FM 3349 FRONTAGE ROAD:	45 MPH (INTERIM)
COUNTY ROADS:	45 MPH
JUG HANDLE * :	45 MPH

* LOW-SPEED DESIGN CRITERIA

	AADT		TRUCK PERCENTAGE	
	2018	2040		
FM 3349	950	66200	6.7	
US 79	18000	71000	17.2	



VICINITY MAP
NOT TO SCALE

BEARING BASIS: NAD83, TEXAS STATE PLANE, CENTRAL ZONE, US FOOT.

COORDINATES FOR THIS PROJECT ARE SURFACE VALUES BASED ON A COMBINED SURFACE ADJUSTMENT FACTOR OF 1.00012352
VERTICAL DATUM: NAD83, NORTH AMERICA DATUM OF 1983

THIS DOCUMENT IS RELEASED FOR THE PURPOSE OF INTERIM REVIEW UNDER THE AUTHORITY OF FELIPE S. TUDTUD, P.E. 104836. IT IS NOT INTENDED TO BE USED FOR CONSTRUCTION, BIDDING, OR PERMIT PURPOSES.

0 100 200 300 0 10 20 30

H: 1"=100' V: 1"=10'

FELIPE S. TUDTUD 104836 LICENSED ENGINEER

9/10/2020

PRELIMINARY

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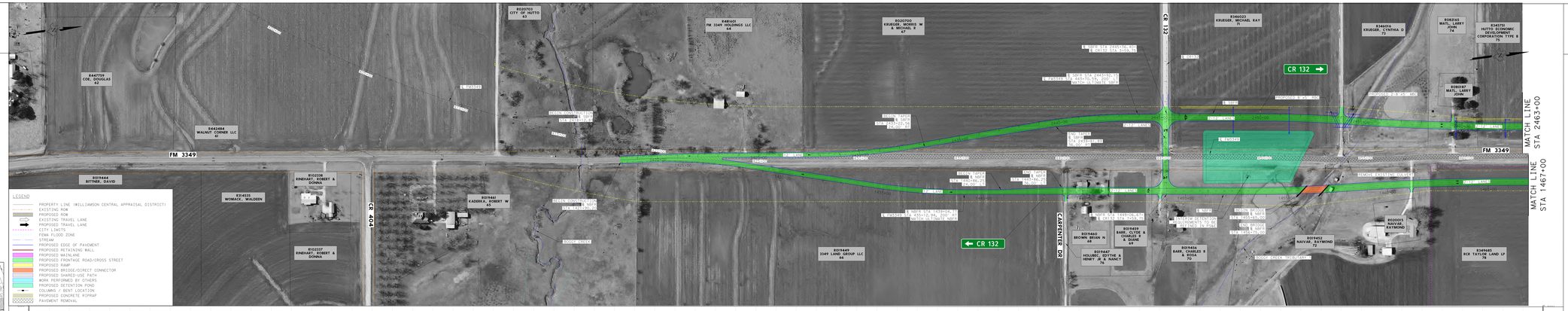
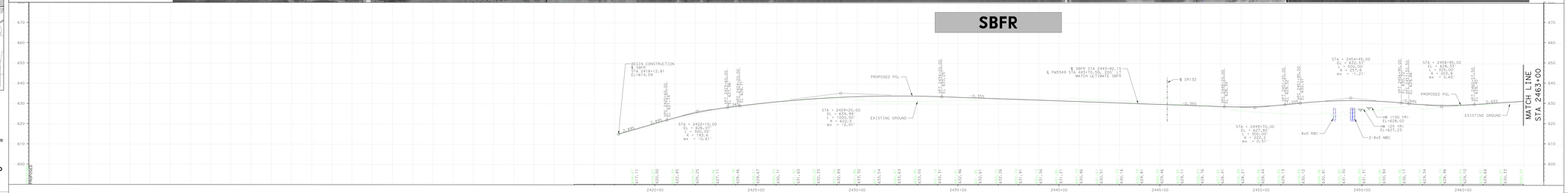
FM 3349
PHASE 1
INTERIM PROJECT
PLAN AND PROFILE

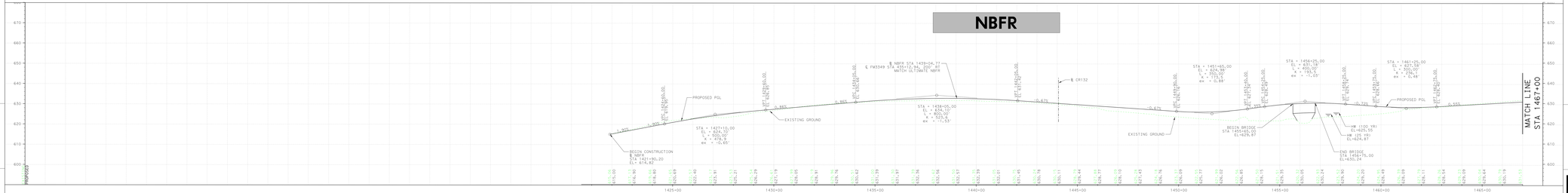
HDR Engineering Inc.
Texas P.E. Firm Registration No. F-754



SBFR



NBFR



WILLIAMSON COUNTY

WILLIAMSON COUNTY

PRELIMINARY DESIGN FOR:

FM 3349 at US 79

PCT 2

PRECINCT 4

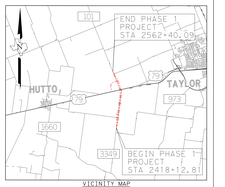
COUNTY: WILLIAMSON
LIMITS:FM 3349 FROM CR 404 TO NORTH OF CR 395
APPROX. LENGTH OF PROJECT = 2.73 MI
APPROX. LENGTH OF BRIDGE = 0.24 MI
FUNCTIONAL CLASSIFICATION = FREEWAY
ROADWAY CLASSIFICATION = RURAL
TERRAIN = ROLLING
MAXIMUM SUPERELEVATION RATE (emax) = 6.0%
FM 3349 AND US 79: TxDOT ROM (APRIL 2018)
COUNTY ROADS: WILLIAMSON COUNTY DCM

DESIGN SPEED CRITERIA

FM 3349 FRONTAGE ROAD:	45 MPH (INTERIM)
COUNTY ROADS:	45 MPH
JUG HANDLE * :	45 MPH

* LOW-SPEED DESIGN CRITERIA

	AADT		TRUCK PERCENTAGE	
	2018	2040		
FM 3349	950	66200	6.7	
US 79	18000	71000	17.2	



VICINITY MAP
NOT TO SCALE

BEARING BASIS: NAD83, TEXAS STATE PLANE, CENTRAL ZONE, US FOOT.

COORDINATES FOR THIS PROJECT ARE SURFACE VALUES BASED ON A COMBINED SURFACE ADJUSTMENT FACTOR OF 1.00012352
VERTICAL DATUM: NAD83, NORTH AMERICA DATUM OF 1983

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0 100 200 300 0 10 20 30

H: 1"=100' V: 1"=10'

FELIPE S. TUDTUD 104836 LICENSED ENGINEER

9/10/2020

PRELIMINARY

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FM3349
PHASE 1
INTERIM PROJECT
PLAN AND PROFILE

HDR Engineering Inc.
Texas P.E. Firm Registration No. F-754

SHEET 2 OF 4

WILLIAMSON COUNTY

WILLIAMSON COUNTY

PRELIMINARY DESIGN FOR:

FM 3349 at US 79

PSJ2

PRECINCT 4

COUNTY: WILLIAMSON
LIMITS:FM 3349 FROM CR 404 TO NORTH OF CR 395
APPROX. LENGTH OF PROJECT = 2.73 MI
APPROX. LENGTH OF BRIDGE = 0.24 MI
FUNCTIONAL CLASSIFICATION = FREEWAY
FUNCTIONAL CLASSIFICATION = RURAL
TERRAIN = ROLLING
MAXIMUM SUPERELEVATION RATE (emax) = 6.0%
FM 3349 AND US 79: TxDOT ROM (APRIL 2018)
COUNTY ROADS: WILLIAMSON COUNTY DCM

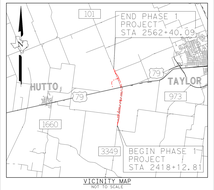
DESIGN SPEED CRITERIA

FM 3349 FRONTAGE ROAD:	45 MPH (INTERIM)
COUNTY ROADS:	45 MPH
JUG HANDLE * :	45 MPH

* LOW-SPEED DESIGN CRITERIA

AADT

	2018	2040	TRUCK PERCENTAGE
FM 3349	950	66200	6.7
US 79	18000	71000	17.2



VICINITY MAP
NOT TO SCALE

BEARING BASIS: NAD83, TEXAS STATE PLANE, CENTRAL ZONE, US FOOT.

COORDINATES FOR THIS PROJECT ARE SURFACE VALUES BASED ON A COMBINED SURFACE ADJUSTMENT FACTOR OF 1.00012352
VERTICAL DATUM: NADB3, NORTH AMERICA DATUM OF 1983

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0 100 200 300 — H: 1"=100'

0 10 20 30 — V: 1"=10'

9/10/2020

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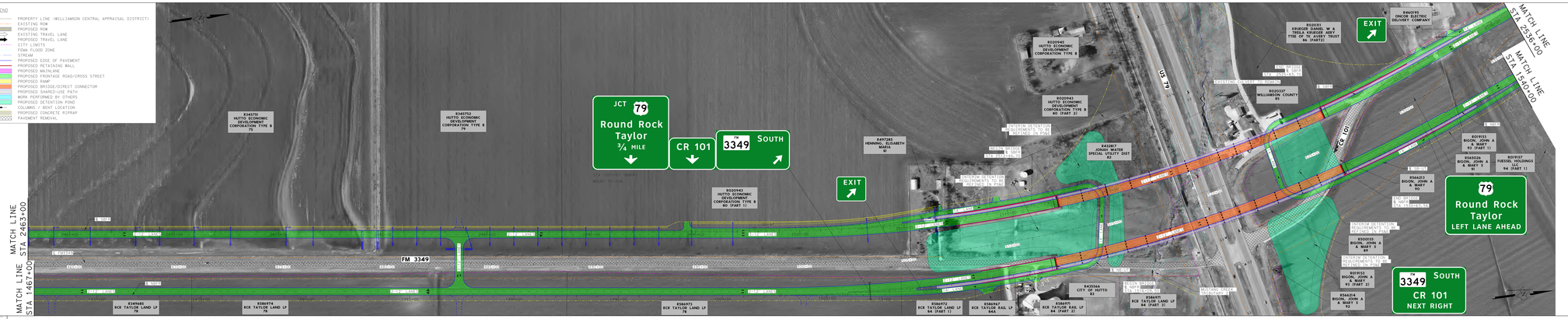
FM 3349
PHASE 1
INTERIM PROJECT
PLAN AND PROFILE

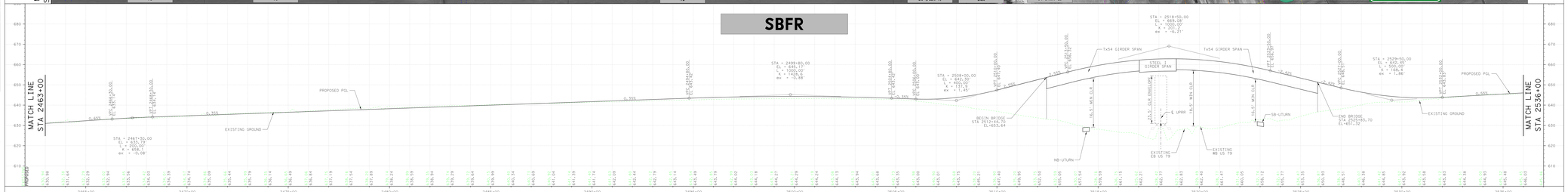
HDR Engineering Inc.
Texas P.E. Firm Registration No. F-754

LEGEND

- PROPERTY LINE (WILLIAMSON CENTRAL APPRAISAL DISTRICT)
- EXISTING ROW
- PROPOSED ROW
- EXISTING TRAVEL LANE
- PROPOSED TRAVEL LANE
- CITY LIMITS
- FEMA FLOOD ZONE
- STREAM
- PROPOSED EDGE OF PAVEMENT
- PROPOSED RETAINING WALL
- PROPOSED MAINLANE
- PROPOSED FRONTAGE ROAD/CROSS STREET
- PROPOSED RAMP
- PROPOSED BRIDGE/DIRECT CONNECTOR
- PROPOSED SHARED-USE PATH
- WORK PERFORMED BY OTHERS
- PROPOSED DETENTION POND
- COLUMNS / BENT LOCATION
- PROPOSED CONCRETE RIPRAP
- PAVEMENT REMOVAL



SBFR



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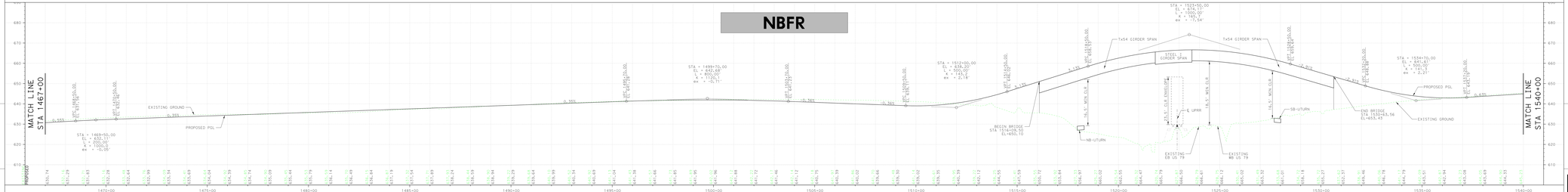

WILLIAMSON COUNTY

WILLIAMSON COUNTY

PRELIMINARY DESIGN FOR:

FM 3349 at US 79

PSJ2

PRECINCT 4

COUNTY: WILLIAMSON
LIMITS:FM 3349 FROM CR 404 TO NORTH OF CR 395
APPROX. LENGTH OF PROJECT = 2.73 MI
APPROX. LENGTH OF BRIDGE = 0.24 MI
FUNCTIONAL CLASSIFICATION = FREEWAY
FUNCTIONAL CLASSIFICATION = RURAL
TERRAIN = ROLLING
MAXIMUM SUPERELEVATION RATE (emax) = 6.0%
FM 3349 AND US 79: TxDOT ROM (APRIL 2018)
COUNTY ROADS: WILLIAMSON COUNTY DCM

DESIGN SPEED CRITERIA

FM 3349 FRONTAGE ROAD:	45 MPH (INTERIM)
COUNTY ROADS:	45 MPH
JUG HANDLE * :	45 MPH

* LOW-SPEED DESIGN CRITERIA

AADT

	2018	2040	TRUCK PERCENTAGE
FM 3349	950	66200	6.7
US 79	18000	71000	17.2

VICINITY MAP
NOT TO SCALE

BEARING BASIS: NAD83, TEXAS STATE PLANE, CENTRAL ZONE, US FOOT.

COORDINATES FOR THIS PROJECT ARE SURFACE VALUES BASED ON A COMBINED SURFACE ADJUSTMENT FACTOR OF 1.00012352
VERTICAL DATUM: NADB3, NORTH AMERICA DATUM OF 1983

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0 100 200 300 — H: 1"=100'

0 10 20 30 — V: 1"=10'

9/10/2020

PRELIMINARY

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FM3349
PHASE 1
INTERIM PROJECT
PLAN AND PROFILE

HDR Engineering Inc.
Texas P.E. Firm Registration No. F-754

WILLIAMSON COUNTY 1848

WILLIAMSON COUNTY

PRELIMINARY DESIGN FOR:

FM 3349 at US 79

P332

PRECINCT #4

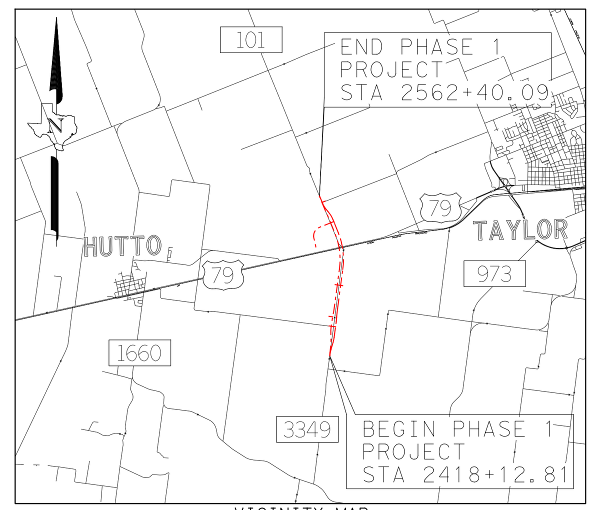
COUNTY: WILLIAMSON
LIMITS:FM 3349 FROM CR 404 TO NORTH OF CR 395
APPROX. LENGTH OF PROJECT = 2.73 MI
APPROX. LENGTH OF BRIDGE = 0.24 MI
FUNCTIONAL CLASSIFICATION = FREEWAY
ROADWAY CLASSIFICATION = RURAL
TERRAIN = ROLLING
MAXIMUM SUPERELEVATION RATE (emax) = 6.0%
FM 3349 AND US 79: TxDOT RDM (APRIL 2018)
COUNTY ROADS: WILLIAMSON COUNTY DCM

DESIGN SPEED CRITERIA

FM 3349 FRONTAGE ROAD:	45 MPH (INTERIM)
COUNTY ROADS:	45 MPH
JUG HANDLE * :	45 MPH

* LOW-SPEED DESIGN CRITERIA

	AADT 2018	AADT 2040	TRUCK PERCENTAGE
FM 3349	950	66200	6.7
US 79	18000	71000	17.2



VICINITY MAP
NOT TO SCALE

BEARING BASIS: NAD83, TEXAS STATE PLANE, CENTRAL ZONE, US FOOT.

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VERTICAL DATUM: NAD83, NORTH AMERICA DATUM OF 1983

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0 100 200 300 — H: 1"=100'
0 10 20 30 — V: 1"=10'

STATE OF TEXAS — FELIPE S. TUDTUD — 104836 — LICENSED PROFESSIONAL ENGINEER

9/10/2020

PRELIMINARY

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FM 3349
PHASE 1 INTERIM PROJECT PLAN AND PROFILE

HDR Engineering Inc.
Texas P.E. Firm Registration No. F-754

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DATE: 9/10/2020
PLOTTING TIME: 8:54:52 AM
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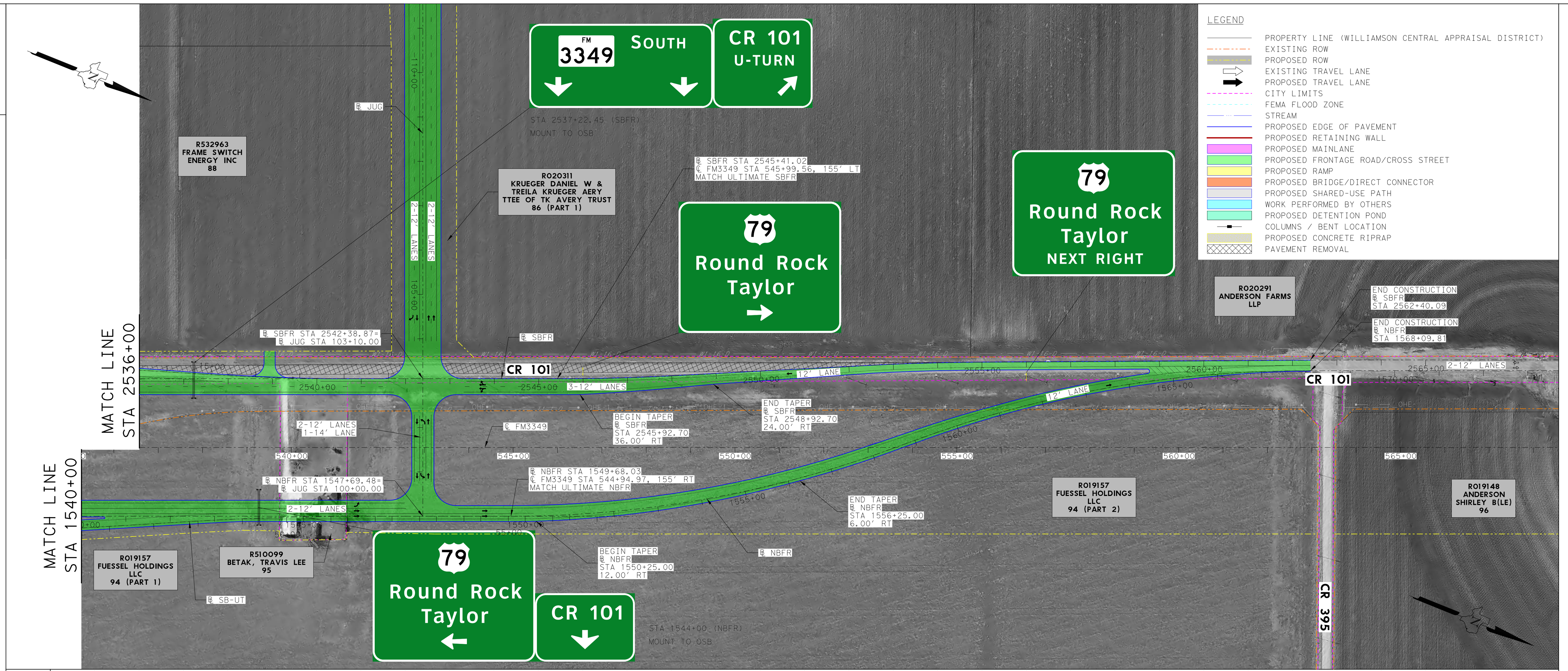
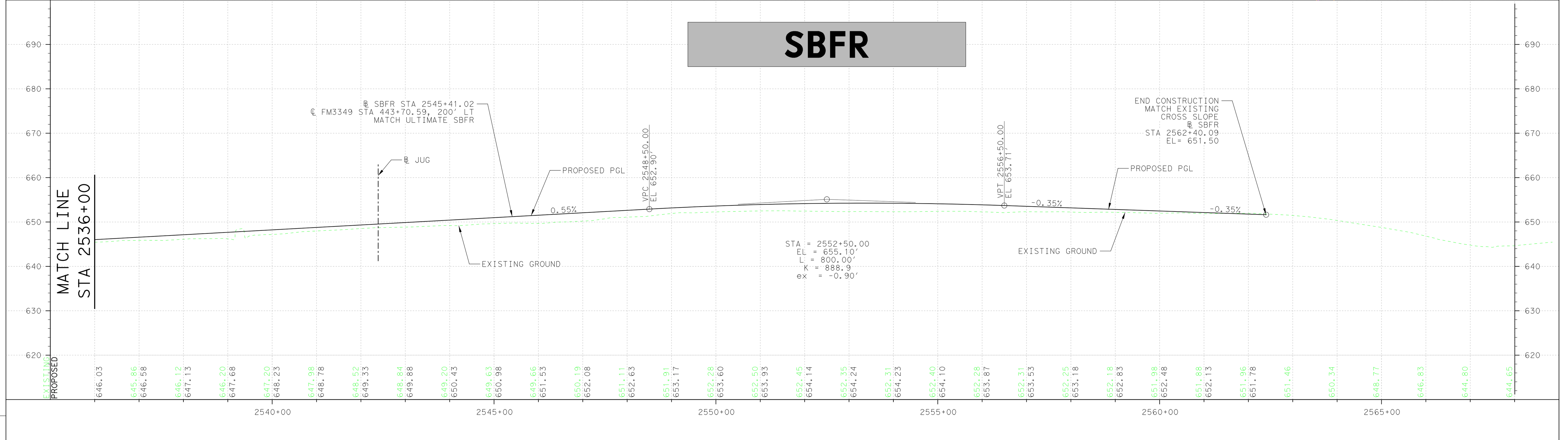
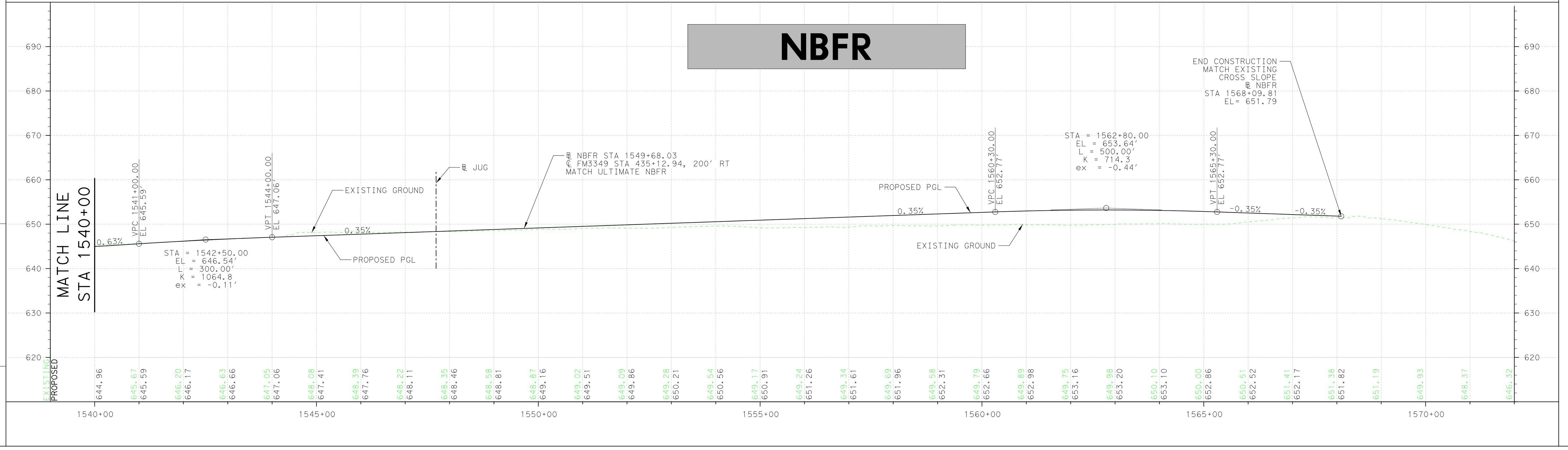






NB FRONTAGE ROAD "℄ NBFR"

		STATION	NORTHING	EASTING
Element: Linear				
	POB ( )	1421+90.21	10167798.190	3192725.606
	PC ( )	1422+86.92	10167894.507	3192734.278
	Tangent Direction:	N 5°08'40.19" E		
	Tangent Length:	96.7064		
Element: Circular				
	PC ( )	1422+86.92	10167894.507	3192734.278
	PI ( )	1425+34.10	10168140.692	3192756.442
	CC ( )		10167670.337	3195224.207
	PT ( )	1427+79.68	10168377.771	3192826.388
	Radius:	2500.0000		
	Delta:	11°17'35.72" Right		
	Degree of Curvature(Arc):	2°17'30.59"		
	Length:	492.7612		
	Tangent:	247.1814		
	Chord:	491.9639		
	Middle Ordinate:	12.1309		
	External:	12.1900		
	Tangent Direction:	N 5°08'40.19" E		
	Radial Direction:	S 84°51'19.81" E		
	Chord Direction:	N 10°47'28.05" E		
	Radial Direction:	S 73°33'44.09" E		
	Tangent Direction:	N 16°26'15.91" E		
Element: Linear				
	PT ( )	1427+79.68	10168377.771	3192826.388
	PC ( )	1434+45.32	10169016.204	3193014.746
	Tangent Direction:	N 16°26'15.91" E		
	Tangent Length:	665.6397		
Element: Circular				
	PC ( )	1434+45.32	10169016.204	3193014.746
	PI ( )	1436+75.50	10169236.971	3193079.879
	CC ( )		10169865.125	3190137.363
	PT ( )	1439+04.77	10169465.089	3193110.572
	Radius:	3000.0000		
	Delta:	8°46'29.33" Left		
	Degree of Curvature(Arc):	1°54'35.49"		
	Length:	459.4482		
	Tangent:	230.1742		
	Chord:	458.9993		
	Middle Ordinate:	8.7912		
	External:	8.8171		
	Tangent Direction:	N 16°26'15.91" E		
	Radial Direction:	S 73°33'44.09" E		
	Chord Direction:	N 12°03'01.24" E		
	Radial Direction:	S 82°20'13.42" E		
	Tangent Direction:	N 7°39'46.58" E		
Element: Linear				
	PT ( )	1439+04.77	10169465.089	3193110.572
	PC ( )	1453+50.11	10170897.526	3193303.301
	Tangent Direction:	N 7°39'46.58" E		
	Tangent Length:	1445.3437		
Element: Circular				
	PC ( )	1453+50.11	10170897.526	3193303.301
	PI ( )	1455+75.18	10171120.586	3193333.313
	CC ( )		10171730.266	3187114.071
	PRC ( )	1458+00.06	10171345.228	3193347.190
	Radius:	6245.0000		
	Delta:	4°07'41.18" Left		
	Degree of Curvature(Arc):	0°55'02.88"		
	Length:	449.9461		
	Tangent:	225.0704		
	Chord:	449.8488		
	Middle Ordinate:	4.0518		
	External:	4.0545		
	Tangent Direction:	N 7°39'46.58" E		
	Radial Direction:	S 82°20'13.42" E		
	Chord Direction:	N 5°35'55.99" E		
	Radial Direction:	S 86°27'54.60" E		
	Tangent Direction:	N 3°32'05.40" E		
Element: Circular				
	PRC ( )	1458+00.06	10171345.228	3193347.190
	PI ( )	1462+00.10	10171744.512	3193371.855
	CC ( )		10170660.854	3204426.073
	PT ( )	1465+99.80	10172140.985	3193425.199
	Radius:	11100.0000		
	Delta:	4°07'41.18" Right		
	Degree of Curvature(Arc):	0°30'58.24"		
	Length:	799.7441		
	Tangent:	400.0451		
	Chord:	799.5711		
	Middle Ordinate:	7.2018		
	External:	7.2065		
	Tangent Direction:	N 3°32'05.40" E		
	Radial Direction:	S 86°27'54.60" E		
	Chord Direction:	N 5°35'55.99" E		
	Radial Direction:	S 82°20'13.42" E		
	Tangent Direction:	N 7°39'46.58" E		
Element: Linear				
	PT ( )	1465+99.80	10172140.985	3193425.199
	PC ( )	1502+38.34	10175747.027	3193910.380
	Tangent Direction:	N 7°39'46.58" E		
	Tangent Length:	3638.5353		
Element: Circular				
	PC ( )	1502+38.34	10175747.027	3193910.380
	PI ( )	1519+99.39	10177492.353	3194145.208
	CC ( )		10176634.439	3187314.812
	PT ( )	1536+81.52	10179125.392	3193486.049
	Radius:	6655.0000		
	Delta:	29°38'37.94" Left		
	Degree of Curvature(Arc):	0°51'39.40"		
	Length:	3443.1849		
	Tangent:	1761.0528		
	Chord:	3404.9094		
	Middle Ordinate:	221.4417		
	External:	229.0636		
	Tangent Direction:	N 7°39'46.58" E		
	Radial Direction:	S 82°20'13.42" E		
	Chord Direction:	N 7°09'32.39" W		
	Radial Direction:	N 68°01'08.64" E		
	Tangent Direction:	N 21°58'51.36" W		
Element: Linear				
	PT ( )	1536+81.52	10179125.392	3193486.049
	PI ( )	1546+73.52	10180045.277	3193114.748
	Tangent Direction:	N 21°58'51.36" W		
	Tangent Length:	991.9949		
Element: Linear				
	PI ( )	1546+73.52	10180045.311	3193114.734
	PC ( )	1549+68.03	10180318.415	3193004.499
	Tangent Direction:	N 21°58'51.36" W		
	Tangent Length:	294.5128		

NB FRONTAGE ROAD "℄ NBFR" - CONTINUE

		STATION	NORTHING	EASTING
Element: Circular				
	PC ( )	1549+68.03	10180318.415	3193004.499
	PI ( )	1554+08.85	10180727.189	3192839.502
	CC ( )		10179382.670	3190686.228
	PT ( )	1558+40.70	10181054.878	3192544.646
	Radius:	2500.0000		
	Delta:	20°00'00.00" Left		
	Degree of Curvature(Arc):	2°17'30.59"		
	Length:	872.6646		
	Tangent:	440.8175		
	Chord:	868.2409		
	Middle Ordinate:	37.9806		
	External:	38.5665		
	Tangent Direction:	N 21°58'51.36" W		
	Radial Direction:	N 68°01'08.64" E		
	Chord Direction:	N 31°58'51.36" W		
	Radial Direction:	N 48°01'08.64" E		
	Tangent Direction:	N 41°58'51.36" W		
Element: Linear				
	PT ( )	1558+40.70	10181054.878	3192544.646
	PC ( )	1559+17.08	10181111.660	3192493.554
	Tangent Direction:	N 41°58'51.36" W		
	Tangent Length:	76.3845		
Element: Circular				
	PC ( )	1559+17.08	10181111.660	3192493.554
	PI ( )	1563+50.20	10181433.623	3192203.851
	CC ( )		10182783.868	3194351.972
	PT ( )	1567+74.80	10181834.278	3192039.338
	Radius:	2500.0000		
	Delta:	19°39'26.66" Right		
	Degree of Curvature(Arc):	2°17'30.59"		
	Length:	857.7162		
	Tangent:	433.1149		
	Chord:	853.5157		
	Middle Ordinate:	36.6937		
	External:	37.2403		
	Tangent Direction:	N 41°58'51.36" W		
	Radial Direction:	N 48°01'08.64" E		
	Chord Direction:	N 32°09'08.03" W		
	Radial Direction:	N 67°40'35.30" E		
	Tangent Direction:	N 22°19'24.70" W		
Element: Linear				
	PT ( )	1567+74.80	10181834.278	3192039.338
	PI ( )	1568+56.88	10181910.208	3192008.160
	Tangent Direction:	N 22°19'24.70" W		
	Tangent Length:	82.0820		
Element: Linear				
	PI ( )	1568+56.88	10181910.208	3192008.160
	POE ( )	1574+65.56	10182474.504	3191779.975
	Tangent Direction:	N 22°01'01.17" W		
	Tangent Length:	608.6854		

SB FRONTAGE ROAD "℄ SBFR"

		STATION	NORTHING	EASTING
Element: Linear				
	POB ( )	2418+12.81	10167797.925	3192701.485
	PC ( )	2420+60.10	10168044.215	3192723.659
	Tangent Direction:	N 5°08'40.19" E		
	Tangent Length:	247.2865		
Element: Circular				
	PC ( )	2420+60.10	10168044.215	3192723.659
	PI ( )	2421+58.87	10168142.587	3192732.515
	CC ( )		10167529.343	3198442.529
	PT ( )	2422+57.62	10168240.596	3192744.750
	Radius:	5742.0000		
	Delta:	1°58'15.33" Right		
	Degree of Curvature(Arc):	0°59'52.21"		
	Length:	197.5198		
	Tangent:	98.7696		
	Chord:	197.5101		
	Middle Ordinate:	0.8493		
	External:	0.8494		
	Tangent Direction:	N 5°08'40.19" E		
	Radial Direction:	S 84°51'19.81" E		
	Chord Direction:	N 6°07'47.86" E		
	Radial Direction:	S 82°53'04.48" E		
	Tangent Direction:	N 7°06'55.52" E		
Element: Linear				
	PT ( )	2422+57.62	10168240.596	3192744.750
	PI ( )	2427+00.65	10168680.216	3192799.628
	Tangent Direction:	N 7°06'55.52" E		
	Tangent Length:	443.0320		
Element: Linear				
	PI ( )	2427+00.65	10168680.216	3192799.628
	PC ( )	2427+35.64	10168714.890	3192804.323
	Tangent Direction:	N 7°42'39.92" E		
	Tangent Length:	34.9899		
Element: Circular				
	PC ( )	2427+35.64	10168714.890	3192804.323
	PI ( )	2429+99.38	10168976.241	3192839.710
	CC ( )		10169117.424	3189831.451
	PT ( )	2432+61.76	10169239.758	3192828.955
	Radius:	3000.0000		
	Delta:	10°02'53.34" Left		
	Degree of Curvature(Arc):	1°54'35.49"		
	Length:	526.1200		
	Tangent:	263.7363		
	Chord:	525.4460		
	Middle Ordinate:	11.5260		
	External:	11.5705		
	Tangent Direction:	N 7°42'39.92" E		
	Radial Direction:	S 82°17'20.08" E		
	Chord Direction:	N 2°41'13.25" E		
	Radial Direction:	N 87°39'46.58" E		
	Tangent Direction:	N 2°20'13.42" W		
Element: Linear				
	PT ( )	2432+61.76	10169239.758	3192828.955
	PC ( )	2438+68.56	10169846.047	3192804.212
	Tangent Direction:	N 2°20'13.42" W		
	Tangent Length:	606.7936		

SB FRONTAGE ROAD "℄ SBFR" - CONTINUE

		STATION	NORTHING	EASTING
Element: Circular				
	PC ( )	2438+68.56	10169846.047	3192804.212
	PI ( )	2441+31.02	10170108.294	3192793.509
	CC ( )		10169968.381	3195801.716
	PT ( )	2443+92.15	10170368.417	3192828.507
	Radius:	3000.0000		
	Delta:	10°00'00.00" Right		
	Degree of Curvature(Arc):	1°54'35.49"		
	Length:	523.5988		
	Tangent:	262.4660		
	Chord:	522.9345		
	Middle Ordinate:	11.4159		
	External:	11.4595		
	Tangent Direction:	N 2°20'13.42" W		
	Radial Direction:	N 87°39'46.58" E		
	Chord Direction:	N 2°39'46.58" E		
	Radial Direction:	S 82°20'13.42" E		
	Tangent Direction:	N 7°39'46.58" E		
Element: Linear				
	PT ( )	2443+92.15	10170368.417	3192828.507
	PC ( )	2449+79.85	10170950.864	3192906.874
	Tangent Direction:	N 7°39'46.58" E		
	Tangent Length:	587.6956		
Element: Circular				
	PC ( )	2449+79.85	10170950.864	3192906.874
	PI ( )	2452+04.92	10171173.924	3192936.886
	CC ( )		10170118.123	3199096.104
	PRC ( )	2454+29.80	10171394.246	3192982.877
	Radius:	6245.0000		
	Delta:	4°07'41.18" Right		
	Degree of Curvature(Arc):	0°55'02.88"		
	Length:	449.9461		
	Tangent:	225.0704		
	Chord:	449.8488		
	Middle Ordinate:	4.0518		
	External:	4.0545		
	Tangent Direction:	N 7°39'46.58" E		
	Radial Direction:	S 82°20'13.42" E		
	Chord Direction:	N 9°43'37.16" E		
	Radial Direction:	S 78°12'32.25" E		
	Tangent Direction:	N 11°47'27.75" E		
Element: Circular				
	PRC ( )	2454+29.80	10171394.246	3192982.877
	PI ( )	2458+29.84	10171785.849	3193064.624
	CC ( )		10173662.453	3182117.094
	PT ( )	2462+29.54	10172182.322	3193117.968
	Radius:	11100.0000		
	Delta:	4°07'41.18" Left		
	Degree of Curvature(Arc):	0°30'58.24"		
	Length:	799.7441		
	Tangent:	400.0451		
	Chord:	799.5711		
	Middle Ordinate:	7.2018		
	External:	7.2065		
	Tangent Direction:	N 11°47'27.75" E		
	Radial Direction:	S 78°12'32.25" E		
	Chord Direction:	N 9°43'37.16" E		
	Radial Direction:	S 82°20'13.42" E		
	Tangent Direction:	N 7°39'46.58" E		
Element: Linear				
	PT ( )	2462+29.54	10172182.322	3193117.968
	PC ( )	2498+68.08	10175788.364	3193603.149
	Tangent Direction:	N 7°39'46.58" E		
	Tangent Length:	3638.5353		
Element: Circular				
	PC ( )	2498+68.08	10175788.364	3193603.149
	PI ( )	2515+47.10	10177452.390	3193827.038
	CC ( )		10176634.439	3187314.812
	PT ( )	2531+50.87	10179009.360	3193198.584
	Radius:	6345.0000		
	Delta:	29°38'37.94" Left		
	Degree of Curvature(Arc):	0°54'10.82"		
	Length:	3282.7961		
	Tangent:	1679.0203		
	Chord:	3246.3036		
	Middle Ordinate:	211.1266		
	External:	218.3935		
	Tangent Direction:	N 7°39'46.58" E		
	Radial Direction:	S 82°20'13.42" E		
	Chord Direction:	N 7°09'32.39" W		
	Radial Direction:	N 68°01'08.64" E		
	Tangent Direction:	N 21°58'51.36" W		
Element: Linear				
	PT ( )	2531+50.87	10179009.360	3193198.584
	PC ( )	2545+42.01	10180299.377	3192677.882
	Tangent Direction:	N 21°58'51.36" W		
	Tangent Length:	1391.1410		
Element: Circular				
	PC ( )	2545+42.01	10180299.377	3192677.882
	PI ( )	2546+72.94	10180420.789	3192628.876
	CC ( )		10178427.887	3188041.340
	PT ( )	2548+03.81	10180539.470	3192573.582
	Radius:	5000.0000		
	Delta:	3°00'00.00" Left		
	Degree of Curvature(Arc):	1°08'45.30"		
	Length:	261.7994		
	Tangent:	130.9296		
	Chord:	261.7695		
	Middle Ordinate:	1.7134		
	External:	1.7140		
	Tangent Direction:	N 21°58'51.36" W		
	Radial Direction:	N 68°01'08.64" E		
	Chord Direction:	N 23°28'51.36" W		
	Radial Direction:	N 65°01'08.64" E		
	Tangent Direction:	N 24°58'51.36" W		
Element: Linear				
	PT ( )	2548+03.81	10180539.470	3192573.582
	PC ( )	2552+57.03	10180950.286	3192382.182
	Tangent Direction:	N 24°58'51.36" W		
	Tangent Length:	453.2155		

SB FRONTAGE ROAD "℄ SBFR" - CONTINUE

		STATION	NORTHING	EASTING
Element: Circular				
	PC ( )	2552+57.03	10180950.286	3192382.182
	PI ( )	2553+73.00	10181055.409	3192333.205
	CC ( )		10183061.869	3196914.423
	PT ( )	2554+88.93	10181162.689	3192289.154
	Radius:	5000.0000		
	Delta:	2°39'26.66" Right		
	Degree of Curvature(Arc):	1°08'45.30"		
	Length:	231.9025		
	Tangent:	115.9720		
	Chord:	231.8817		
	Middle Ordinate:	1.3444		
	External:	1.3448		
	Tangent Direction:	N 24°58'51.36" W		
	Radial Direction:	N 65°01'08.64" E		
	Chord Direction:	N 23°39'08.03" W		
	Radial Direction:	N 67°40'35.30" E		
	Tangent Direction:	N 22°19'24.70" W		
Element: Linear				
	PT ( )	2554+88.93	10181162.689	3192289.154
	PI ( )	2562+87.22	10181901.152	3191985.934
	Tangent Direction:	N 22°19'24.70" W		
	Tangent Length:	798.2913		
Element: Linear				
	PI ( )	2562+87.22	10181901.152	3191985.934
	POE ( )	2568+85.33	10182455.646	3191761.713
	Tangent Direction:	N 22°01'01.17" W		
	Tangent Length:	598.1130		

JUG HANDLE "℄ JUG"

		STATION	NORTHING	EASTING
Element: Linear				
	POB ( )	100+00.00	10180134.298	3193078.815
	PC ( )	114+27.10	10179600.136	3191755.449
	Tangent Direction:	S 68°01'08.64" W		
	Tangent Length:	1427.1050		
Element: Circular				
	PC ( )	114+27.10	10179600.136	3191755.449
	PI ( )	121+50.48	10179329.378	3191084.659
	CC ( )		10178811.923	3192073.602
	PT ( )	126+25.76	10178623.921	3191244.654
	Radius:	850.0000		
	Delta:	80°47'50.63" Left		
	Degree of Curvature(Arc):	6°44'26.45"		
	Length:	1198.6535		
	Tangent:	723.3734		
	Chord:	1101.7744		
	Middle Ordinate:	202.6799		
	External:	266.1403		
	Tangent Direction:	S 68°01'08.64" W		
	Radial Direction:	N 21°58'51.36" W		
	Chord Direction:	S 27°37'13.33" W		
	Radial Direction:	S 77°13'18.01" W		
	Tangent Direction:	S 12°46'41.99" E		
Element: Linear				
	PT ( )	126+25.76	10178623.921	3191244.654
	POE ( )	138+00.13	10177478.632	3191504.402
	Tangent Direction:	S 12°46'41.99" E		
	Tangent Length:	1174.3745		

WILLIAMSON COUNTY 1848

WILLIAMSON COUNTY

PRELIMINARY DESIGN FOR:

FM 3349 at US 79

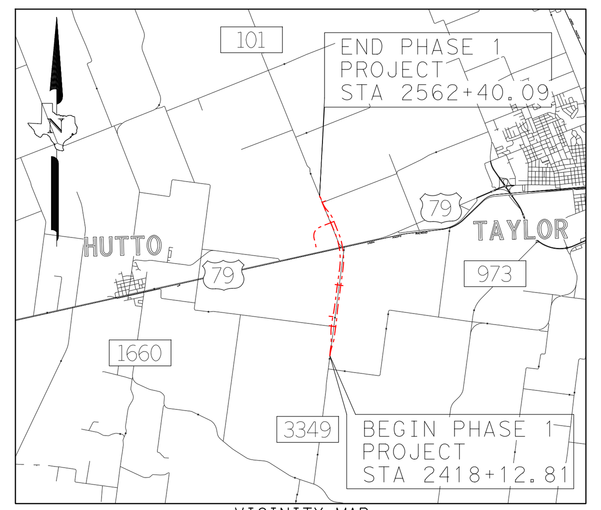
P332

PRECINCT #4

COUNTY: WILLIAMSON
LIMITS:FM 3349 FROM CR 404 TO NORTH OF CR 395
APPROX. LENGTH OF PROJECT = 2.73 MI
APPROX. LENGTH OF BRIDGE = 0.24 MI
FUNCTIONAL CLASSIFICATION = FREEWAY
ROADWAY CLASSIFICATION = RURAL
TERRAIN = ROLLING
MAXIMUM SUPERELEVATION RATE (emax) = 6.0%
FM 3349 AND US 79: TxDOT RDM (APRIL 2018)
COUNTY ROADS: WILLIAMSON COUNTY DCM

DESIGN SPEED CRITERIA
FM 3349 FRONTAGE ROAD: 45 MPH (INTERIM)
COUNTY ROADS: 45 MPH
JUG HANDLE * : 45 MPH
* LOW-SPEED DESIGN CRITERIA

AADT 2018 2040 TRUCK PERCENTAGE
FM 3349 950 66200 6.7
US 79 18000 71000 17.2



VICINITY MAP
NOT TO SCALE

BEARING BASIS: NAD83, TEXAS STATE PLANE, CENTRAL ZONE, US FOOT.

COORDINATES FOR THIS PROJECT ARE SURFACE VALUES BASED ON A COMBINED SURFACE ADJUSTMENT FACTOR OF 1.00012352
VERTICAL DATUM: NAD83, NORTH AMERICA DATUM OF 1983

THIS DOCUMENT IS RELEASED FOR THE PURPOSE OF INTERIM REVIEW UNDER THE AUTHORITY OF FELIPE S. TUDTUD, P.E. 104836. IT IS NOT INTENDED TO BE USED FOR CONSTRUCTION, BIDDING, OR PERMIT PURPOSES.

0 100 200 300 — H: 1"=100'
0 10 20 30 — V: 1"=10'

9/10/2020

PRELIMINARY

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FM3349
PHASE 1 INTERIM PROJECT PLAN AND PROFILE

HDR Engineering Inc.
Texas P.E. Firm Registration No. F-754

SHEET 4 OF 4

WILLIAMSON COUNTY
1848

WILLIAMSON COUNTY

PRELIMINARY DESIGN FOR:

FM 3349 at US 79

PRECINCT #4

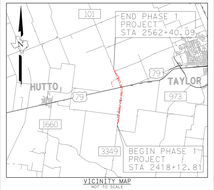
COUNTY: WILLIAMSON
LIMITS:FM 3349 FROM CR 404 TO NORTH OF CR 395
APPROX. LENGTH OF PROJECT = 2.73 MI
APPROX. LENGTH OF BRIDGE = 0.24 MI
FUNCTIONAL CLASSIFICATION = FREEWAY
FUNCTIONAL CLASSIFICATION = RURAL
TERRAIN = ROLLING
MAXIMUM SUPERELEVATION RATE (emax) = 6.0%
FM 3349 AND US 79: TxDOT ROM (APRIL 2018)
COUNTY ROADS: WILLIAMSON COUNTY DCM

DESIGN SPEED CRITERIA

FM 3349 FRONTAGE ROAD:	45 MPH (INTERIM)
COUNTY ROADS:	45 MPH
JUG HANDLE * :	45 MPH

* LOW-SPEED DESIGN CRITERIA

	AADT		TRUCK PERCENTAGE	
	2018	2040		
FM 3349	950	66200	6.7	
US 79	18000	71000	17.2	



VICINITY MAP
NOT TO SCALE

BEARING BASIS: NAD83, TEXAS STATE PLANE, CENTRAL ZONE, US FOOT.

COORDINATES FOR THIS PROJECT ARE SURFACE VALUES BASED ON A COMBINED SURFACE ADJUSTMENT FACTOR OF 1.00012352
VERTICAL DATUM: NADB3, NORTH AMERICA DATUM OF 1983

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H: 1"=100' V: 1"=10'

9/10/2020

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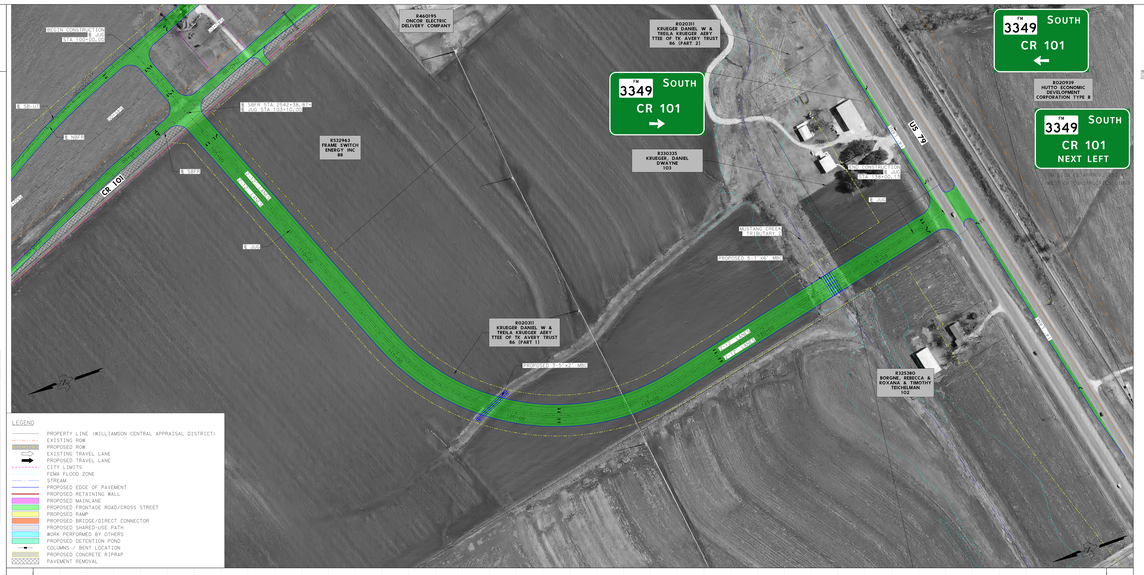
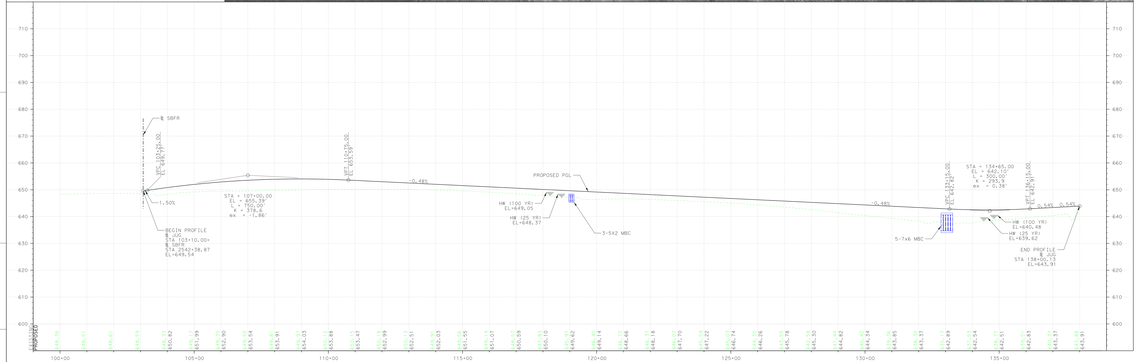
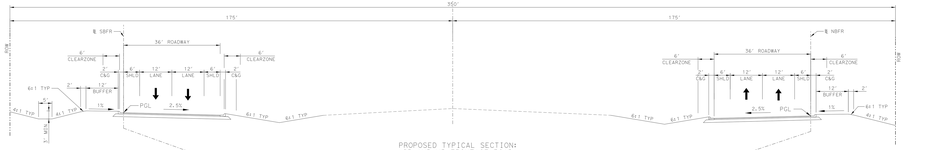
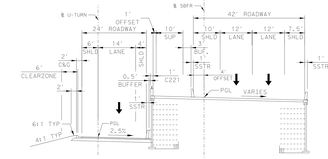
FM 3349
PHASE 1 INTERIM PROJECT-JUG HANDLE PLAN AND PROFILE

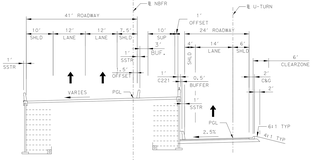
HDR Engineering Inc.
Texas P.E. Firm Registration No. F-754

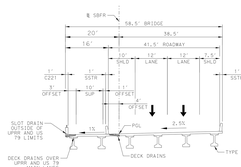


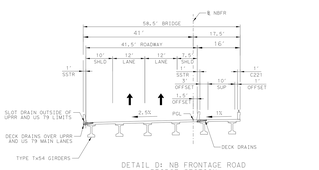


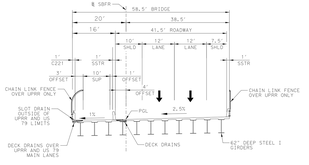


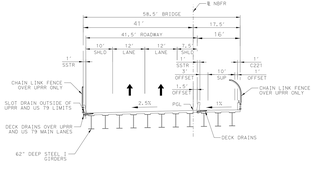


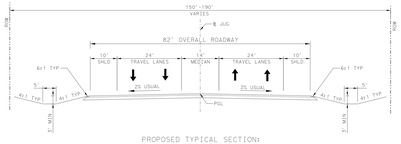


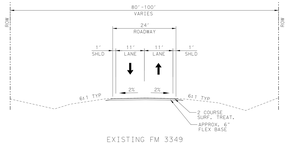












WILLIAMSON COUNTY
1848

WILLIAMSON COUNTY

PRELIMINARY DESIGN FOR:

FM 3349 at US 79

PRECINCT #4

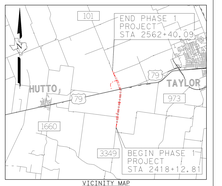
COUNTY: WILLIAMSON
LIMITS:FM 3349 FROM CR 404 TO NORTH OF CR 395
APPROX. LENGTH OF PROJECT = 2.73 MI
APPROX. LENGTH OF BRIDGE = 0.24 MI
FUNCTIONAL CLASSIFICATION = FREEWAY
FUNCTIONAL CLASSIFICATION = RURAL
TERRAIN = ROLLING
MAXIMUM SUPERELEVATION RATE (emax) = 6.0%
FM 3349 AND US 79: TxDOT ROM (APRIL 2018)
COUNTY ROADS: WILLIAMSON COUNTY DCM

DESIGN SPEED CRITERIA

FM 3349 FRONTAGE ROAD:	45 MPH (INTERIM)
COUNTY ROADS:	45 MPH
JUG HANDLE * :	45 MPH

* LOW-SPEED DESIGN CRITERIA

	AADT		TRUCK PERCENTAGE	
	2018	2040		
FM 3349	950	66200	6.7	
US 79	18000	71000	17.2	



VICINITY MAP
NOT TO SCALE

BEARING BASIS: NAD83, TEXAS STATE PLANE, CENTRAL ZONE, US FOOT.

COORDINATES FOR THIS PROJECT ARE SURFACE VALUES BASED ON A COMBINED SURFACE ADJUSTMENT FACTOR OF 1.00012352
VERTICAL DATUM: NADB3, NORTH AMERICA DATUM OF 1983

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H: 1"=100' V: 1"=10'

9/10/2020

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FM3349
PHASE 1 INTERIM PROJECT-JUG HANDLE PLAN AND PROFILE

HDR Engineering Inc.
Texas P.E. Firm Registration No. F-754