Texas Department of Transportation®
Fort Worth District
Brian R. Barth, P.E. District Engineer
NTTA
NORTH TEXAS TOLLWAY AUTHORITY
© 2013 by North Texas Tollway Authority; all rights reserved
Gerry Carrigan, Executive Director

STATE HIGHWAY 360

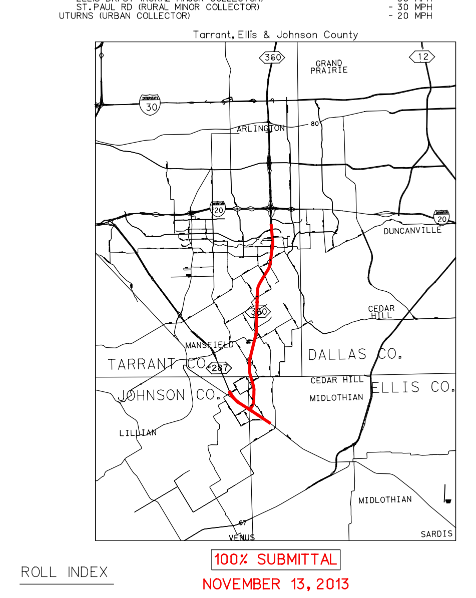
From Green Oaks Boulevard to US 287
Design Schematic
Project Length = 9.20 Miles
CSJ # 2266-02-136
CONTRACT # 02282-SH-360 PS-PD

DESIGN SPEEDS

DESIGN SPEEDS AND FUNCTIONAL CLASSIFICATIONS:

MAINLANES (URBAN FREEWAY)	- 70 MPH
RAMPS (URBAN FREEWAY)	- 50 MPH
DIRECT CONNECTOR (URBAN FREEWAY)	- 40 MPH
FRONTAGE ROADS (URBAN COLLECTOR)	- 40 MPH
CROSS STREETS	
SUBLETT RD / CAMP WISDOM RD (URBAN MAJOR ARTERIAL)	- 35 MPH
WEBB LYNN RD / LYNN CREEK PKWY (URBAN MINOR COLLECTOR)	- 35 MPH
NEW YORK AVE (URBAN MAJOR COLLECTOR)	- 40 MPH
EDEN RD (URBAN MINOR ARTERIAL)	- 40 MPH
DEBBIE LN / RAGLAND RD (URBAN MAJOR ARTERIAL)	- 35 MPH
HOLLAND RD (URBAN PRINCIPAL ARTERIAL)	- 30 MPH
BROAD ST (URBAN PRINCIPAL ARTERIAL)	- 40 MPH
HERITAGE PKWY (URBAN PRINCIPAL ARTERIAL)	- 40 MPH
LONE STAR RD (URBAN PRINCIPAL ARTERIAL)	- 40 MPH
MATLOCK RD AT SH 360 (URBAN MAJOR ARTERIAL)	- 40 MPH
MATLOCK RD AT US 287 (RURAL MAJOR ARTERIAL)	- 40 MPH
ELLIS DR/ST (RURAL MAJOR COLLECTOR)	- 30 MPH
ST. PAUL RD (RURAL MINOR COLLECTOR)	- 30 MPH
UTURNS (URBAN COLLECTOR)	- 20 MPH

Tarrant, Ellis & Johnson County



100% SUBMITTAL
NOVEMBER 13, 2013

ROLL INDEX

ROLL 1: SH 360 MAINLANES STA 736+90 TO STA 794+00 RAMPS AND MAJOR CROSS STREETS
ROLL 2: SH 360 MAINLANES STA 794+00 TO STA 878+00 RAMPS AND MAJOR CROSS STREETS
ROLL 3: SH 360 MAINLANES STA 878+00 TO STA 966+00 RAMPS AND MAJOR CROSS STREETS
ROLL 4: SH 360 MAINLANES STA 966+00 TO STA 1049+00 RAMPS AND MAJOR CROSS STREETS
ROLL 5: SH 360 MAINLANES STA 1049+00 TO STA 1110+00 RAMPS AND MAJOR CROSS STREETS
ROLL 6: SH 360 MAINLANES STA 1110+00 TO STA 1209+00 RAMPS AND MAJOR CROSS STREETS
ROLL 7: SH 360 MAINLANES STA 1209+00 TO STA 1243+00 RAMPS, US 287 MAINLANES AND FRONTAGE ROADS STA 193+40 TO 343+00
ROLL 8: US 287 MAINLANES AND FRONTAGES ROAD PROFILES (US287E,US287W,FREB,FRWB)
ROLL 9: SH 360 NORTHBOUND FRONTAGE ROAD PROFILES (FRNB)
ROLL 10: SH 360 NORTHBOUND AND SOUTHBOUND FRONTAGE ROAD PROFILES (FRNB & FRSB)
ROLL 11: SH 360 SOUTHBOUND FRONTAGE ROAD PROFILE (FRSB), UTURN PROFILES AND MAINLANES PROFILE STA 1209+00 TO END
ROLL 12: DIRECT CONNECTOR PROFILES

PRELIMINARY
SUBJECT TO CHANGE BASED ON FURTHER DEVELOPMENTS RESULTING FROM PUBLIC INPUT AND TECHNICAL REVIEW

DATE APPROVED | DATE SUBMITTED

SCHEMATIC PREPARED BY:
HDR ENGINEERING, INC.
REGISTRATION NUMBER F-754
FOR INTERIM REVIEW ONLY, NOT FOR PERMITTING, BIDDING OR CONSTRUCTION.
Prepared by or under the Direct Supervision of:

NAME	P.E. NUMBER
BRIAN ANDREW SWINDELL	80688
M. SHANE WALTERS	100195

NOVEMBER 13, 2013
DATE

SCALE 0 50 100 150 200 300

ROLL 1 OF 12

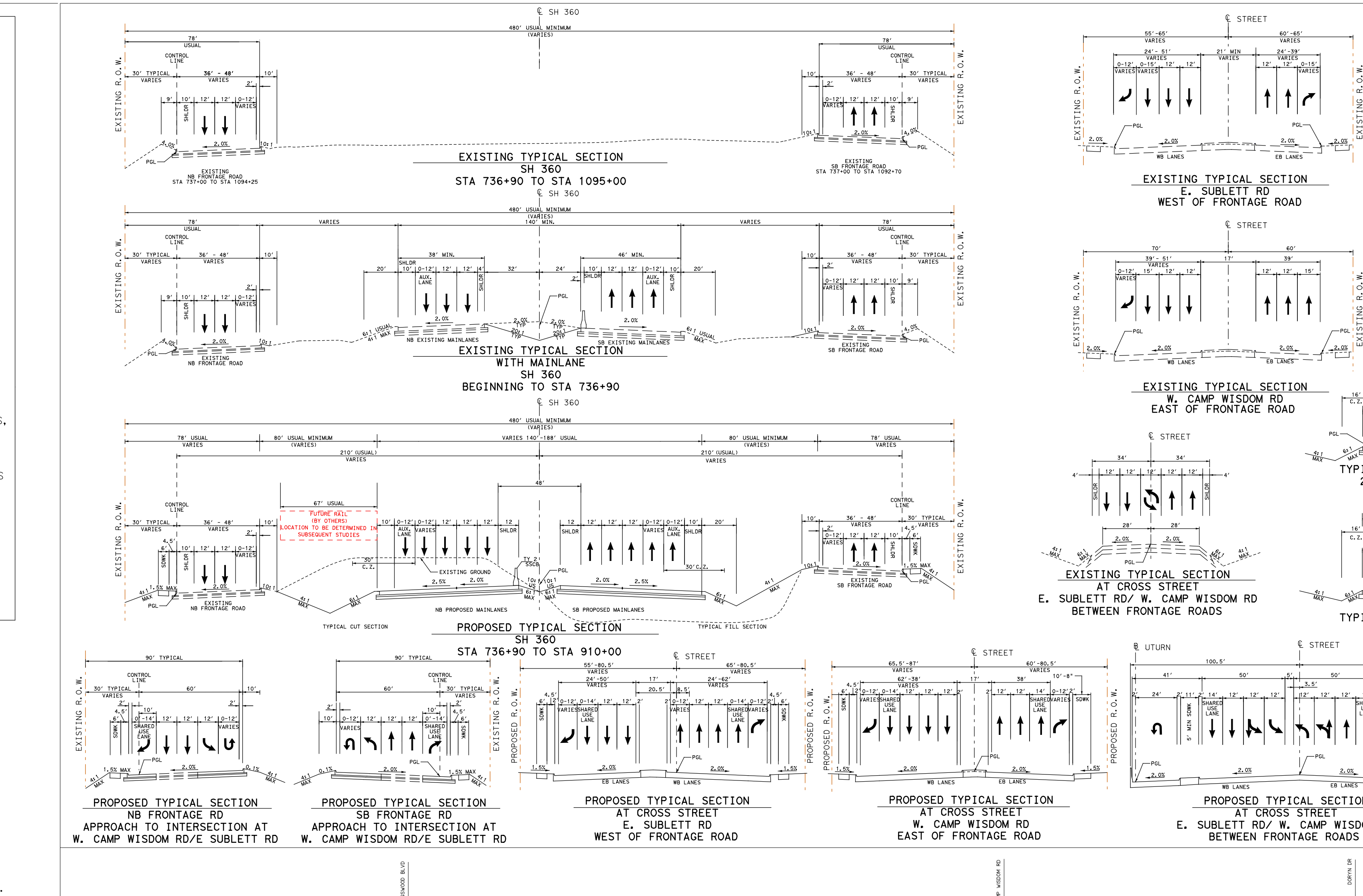
HDR Engineering, Inc.
17111 Preston Road, Suite 200
Dallas, Texas 75248-1229

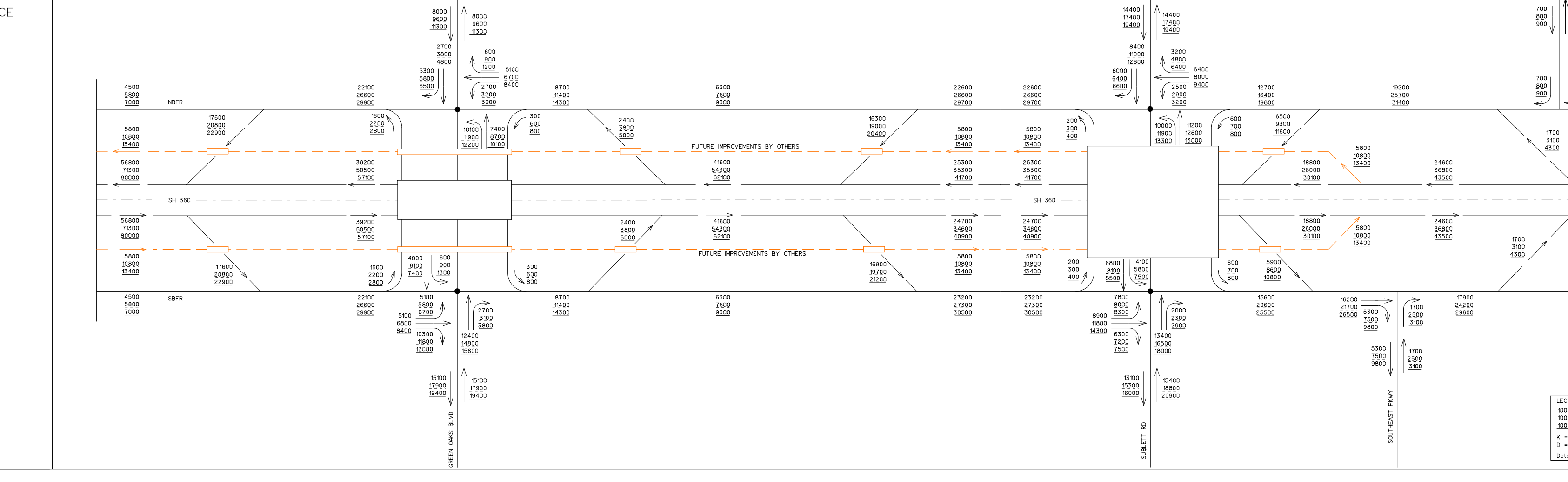
LEGEND

- ALIGNMENT
- PROPOSED R.O.W.
- EXISTING R.O.W.
- PROPOSED ACCESS DENIED
- EXISTING ACCESS DENIED
- BENTS/ABUTMENTS
- PROPOSED RETAINING WALL
- PROPOSED NOISE WALL
- CITY LIMITS
- PROPOSED TOLL GANTRY
- DIRECTION OF TRAFFIC, ONE LANE
- PARCEL NUMBER
- PARCEL BOUNDARY
- PAVEMENT TO BE REMOVED
- PROPOSED MAINLANES
- PROPOSED RAMPS, DIRECT CONNECTORS, COLLECTOR DISTRIBUTORS
- PROPOSED FRONTAGE ROADS
- PROPOSED CROSS STREETS / U-TURNS
- PROPOSED CONCRETE STRUCTURES
- PROPOSED STEEL STRUCTURES
- PROPOSED SHOULDERS, GORES
- PROPOSED SIDEWALKS
- PROPOSED CONSTRUCTION BY OTHERS

GENERAL NOTES:

1. EXISTING PAVEMENT WITHIN LIMITS OF PROPOSED RECONSTRUCTION IS ASSUMED TO BE REMOVED.
2. EXISTING RIGHT OF WAY HAS NOT BEEN FIELD SURVEYED. SCHEMATIC LAYOUTS ARE BASED ON AERIAL SURVEY, SUPPLEMENTAL FIELD SURVEYS AND RECORD PLANS ONLY.
3. PARCEL OWNERSHIP WAS OBTAINED FROM TARRANT APPRAISAL DISTRICT, 2013 AND ELLIS COUNTY APPRAISAL DISTRICT, 2013, JOHNSON COUNTY APPRAISAL DISTRICT, 2013.
4. APPROXIMATE 100 YEAR FLOODPLAIN LIMITS ARE BASED UPON FEMA FLOOD INSURANCE RATE MAPS NUMBER 48439C0365K, 48439C0480K, 48439C0490K, 48113C0590J.
5. ASSUME SIX FOOT STRUCTURE DEPTH USED FOR CLEARANCE CALCULATIONS UNLESS NOTED OTHERWISE.



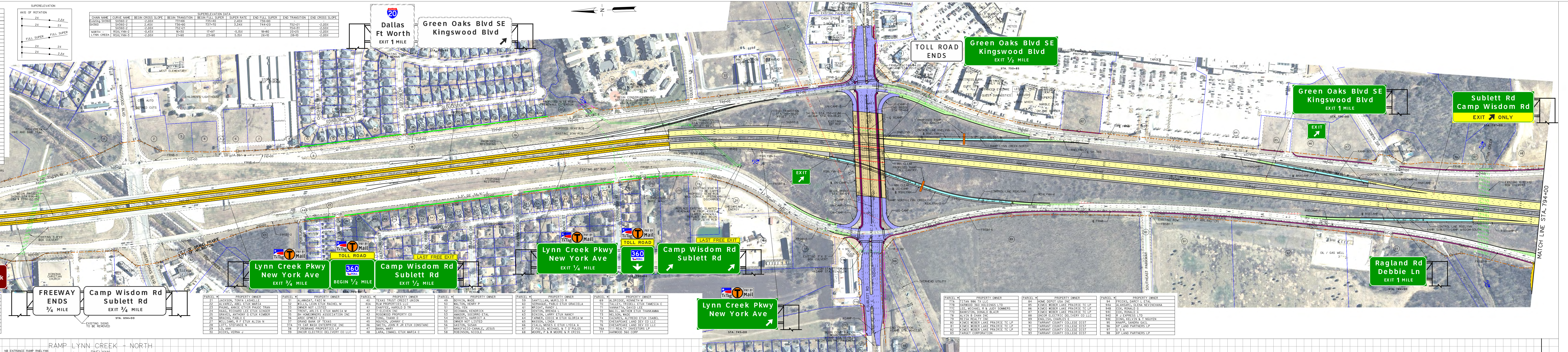


CURVE DATA

CHAIN NAME	CURVE NO.	DELTA	DEGREE	TANGENT	LENGTH	RADIUS	BACK BEARING	AHEAD BEARING	PI STATION	PC STATION	PT STATION	PI NORTHING	PI EASTING
MAINLANE													
SH 360	SH360-1	4° 38'30.78" LT	0° 30'00.00"	464.44'	928.38'	11,459.16'	S 0° 24'24.13" E	S 5° 02'54.91" E	692+64.13	687+99.69	697+28.07	6,928,400.41	2,411,067.86
	SH360-2	12° 43'00.26" RT	1° 00'00.00"	638.46'	1,271.67'	5,729.58'	S 5° 02'54.91" E	S 7° 40'05.35" W	740+53.91	734+15.45	746+87.12	6,923,628.71	2,411,489.41
FRONTAGE ROADS													
SH 360 NORTHBOUND FRONTAGE RD	FRNB-1	41° 05'55.26" LT	4° 00'00.00"	536.96'	1,027.47'	1,432.39'	S 40° 34'36.99" W	S 0° 31'18.27" E	668+34.06	662+97.10	673+24.57	6,930,806.68	2,411,228.45
	FRNB-2	10° 16'14.82" LT	1° 00'00.00"	514.92'	1,027.08'	5,729.58'	S 0° 31'18.27" E	S 10° 47'33.10" E	690+68.25	685+53.33	695+80.41	6,928,526.13	2,411,249.22
	FRNB-3	11° 42'26.91" RT	1° 00'00.00"	587.42'	1,170.75'	5,729.58'	S 10° 47'33.11" E	S 0° 54'53.80" W	701+67.84	695+80.43	707+51.17	6,927,443.27	2,411,455.64
	FRNB-4	5° 57'48.09" LT	1° 00'00.00"	298.44'	596.34'	5,729.58'	S 0° 54'53.81" W	S 5° 02'54.28" E	710+49.61	707+51.17	713+47.51	6,926,557.53	2,411,441.50
	FRNB-5	31° 28'09.51" RT	6° 00'00.00"	269.04'	524.49'	954.93'	S 5° 02'54.29" E	S 26° 25'15.22" W	750+77.91	748+08.87	753+33.36	6,922,544.32	2,411,796.02
	FRNB-6	18° 45'09.89" LT	2° 00'00.00"	473.05'	937.64'	2,864.79'	S 26° 25'15.24" W	S 7° 40'05.35" W	758+06.41	753+33.36	762+71.00	6,921,879.74	2,411,465.82
	FRNB-7	9° 56'50.15" LT	1° 00'00.00"	498.62'	994.73'	5,729.58'	S 7° 40'05.35" W	S 2° 16'44.80" E	789+70.21	784+71.59	794+66.32	6,918,735.85	2,411,042.53
SH 360 SOUTHBOUND FRONTAGE RD	FRSB1-1	10° 22'07.53" LT	1° 00'00.00"	519.86'	1,036.88'	5,729.58'	S 0° 24'24.13" E	S 10° 46'31.66" E	702+67.01	697+47.16	707+84.03	6,927,396.07	2,410,864.98
	FRSB1-2	5° 43'36.75" RT	1° 00'00.00"	286.58'	572.69'	5,729.58'	S 10° 46'31.66" E	S 5° 02'54.91" E	710+70.61	707+84.03	713+56.72	6,926,603.85	2,411,015.76
	FRSB1-3	2° 55'06.06" RT	1° 02'16.97"	140.60'	281.14'	5,519.58'	S 5° 02'54.91" E	S 2° 07'48.85" E	735+77.55	734+36.95	737+18.09	6,924,106.16	2,411,236.41
	FRSB1-4	40° 13'44.37" RT	5° 59'59.96"	349.73'	670.48'	954.93'	S 2° 07'48.85" E	S 38° 05'55.51" W	740+67.81	737+18.09	743+88.57	6,923,616.17	2,411,254.64
	FRSB1-5	50° 00'13.42" LT	6° 00'00.00"	445.33'	833.40'	954.93'	S 38° 05'55.51" W	S 11° 54'17.91" E	749+23.73	744+78.40	753+11.80	6,922,919.81	2,410,708.64
	FRSB1-6	14° 08'05.06" RT	2° 00'00.00"	355.17'	706.74'	2,864.79'	S 11° 54'17.91" E	S 2° 13'47.15" W	759+05.77	755+50.59	762+57.33	6,921,902.87	2,410,923.04
	FRSB1-7	5° 26'18.21" RT	0° 30'00.00"	544.25'	1,087.68'	11,459.16'	S 2° 13'47.15" W	S 7° 40'05.36" W	771+79.01	766+34.76	777+22.44	6,920,626.98	2,410,873.36
	FRSB1-8	11° 12'52.26" RT	1° 00'00.00"	562.52'	1,121.45'	5,729.58'	S 7° 40'05.36" W	S 18° 52'57.62" W	789+11.74	783+49.22	794+70.67	6,918,908.94	2,410,642.04
RAMPS													
LYNN CREEK-NORTH	RNELYNN-1	5° 00'00.00" LT	1° 00'00.00"	250.16'	500.00'	5,729.58'	S 7° 40'05.35" W	S 2° 40'05.35" W	12+50.16	10+00.00	15+00.00	6,922,590.03	2,411,422.21
	RNELYNN-2	5° 00'00.00" RT	2° 00'00.00"	125.08'	250.00'	2,864.79'	S 2° 40'05.35" W	S 7° 40'05.35" W	24+66.05	23+40.97	25+90.97	6,921,375.14	2,411,365.59
SOUTH-SUBLETT /CAMP WISDOM	RNXCAMP-1	5° 00'00.00" RT	2° 00'00.00"	125.08'	250.00'	2,864.79'	S 7° 40'05.35" W	S 12° 40'05.35" W	11+25.08	10+00.00	12+50.00	6,920,263.94	2,411,215.98
	RNXCAMP-2	5° 00'00.00" LT	2° 00'00.00"	125.08'	250.00'	2,864.79'	S 12° 40'05.35" W	S 7° 40'05.35" W	23+41.13	22+16.05	24+66.05	6,919,077.33	2,410,949.26
NORTH-LYNN CREEK	RSXLYNN-1	11° 44'07.33" RT	2° 00'00.00"	294.41'	586.77'	2,864.79'	S 0° 43'21.18" W	S 12° 27'28.51" W	11+77.86	8+83.44	14+70.21	6,923,394.60	2,411,391.29
	RSXLYNN-2	8° 39'54.32" RT	4° 00'00.00"	108.52'	216.63'	1,432.39'	S 12° 27'28.51" W	S 21° 07'22.83" W	18+03.79	16+95.27	19+11.90	6,922,781.40	2,411,255.81
	RSXLYNN-3	14° 04'37.11" LT	4° 00'00.00"	176.85'	351.92'	1,432.39'	S 21° 07'22.83" W	S 7° 02'45.71" W	24+96.96	23+20.11	26+72.03	6,922,134.42	2,411,005.87
	RSXLYNN-4	4° 48'58.56" LT	2° 00'00.00"	120.48'	240.81'	2,864.79'	S 7° 02'45.71" W	S 2° 13'47.15" W	29+92.51	28+72.03	31+12.85	6,921,640.84	2,410,944.86
SUBLETT/CAMP WISDOM-SOUTH	RSECAMP-1	5° 00'00.01" LT	2° 00'00.00"	125.08'	250.00'	2,864.79'	S 7° 40'05.36" W	S 2° 40'05.35" W	10+06.23	8+81.15	11+31.15	6,919,728.39	2,410,784.65
	RSECAMP-2	5° 03'02.28" RT	1° 00'00.00"	252.70'	505.06'	5,729.58'	S 2° 40'05.35" W	S 7° 43'07.63" W	22+24.96	19+72.26	24+77.32	6,918,510.83	2,410,727.91
CROSS STREET													
CAMP WISDOM	XCAMP-1	2° 08'47.39" RT	1° 54'35.49"	56.20'	112.39'	3,000.00'	N 89° 43'32.79" E	S 88° 07'39.82" E	99+86.46	99+30.26	100+42.65	6,922,693.75	2,410,530.33
	XCAMP-2	2° 27'48.34" LT	1° 54'35.49"	64.50'	128.98'	3,000.00'	S 88° 07'39.82" E	N 89° 24'31.84" E	104+35.10	103+70.60	104+99.58	6,922,679.09	2,410,978.74
	XCAMP-3	33° 50'39.84" RT	5° 27'24.27"	319.46'	620.23'	1,050.00'	N 89° 24'31.84" E	S 56° 44'48.33" E	119+20.98	116+01.53	122+21.76	6,922,694.42	2,412,464.56
TURNAROUND													
CAMP WISDOM	UN-CAMP-1	102° 20'08.68" LT	62° 16'40.88"	114.29'	164.32'	92.00'	S 13° 33'24.06" W	S 88° 46'44.63" E	103+57.76	102+43.46	104+07.78	6,922,780.19	2,410,836.17
	UN-CAMP-2	1° 48'43.54" LT	1° 58'26.45"	45.90'	91.80'	2,902.50'	S 88° 46'44.63" E	N 89° 24'31.84" E	104+53.69	104+07.78	104+99.58	6,922,776.78	2,410,996.33
	UN-CAMP-3	94° 27'26.12" LT	62° 16'40.88"	99.45'	151.67'	92.00'	N 89° 24'31.84" E	N 5° 02'54.28" W	111+98.07	110+98.62	112+50.29	6,922,784.46	2,411,740.68
	US-CAMP-1	101° 18'49.74" RT	62° 16'40.88"	112.23'	162.68'	92.00'	N 11° 54'17.91" W	N 89° 24'31.84" E	103+30.76	102+18.53	103+81.21	6,922,586.88	2,410,813.58
	US-CAMP-2	106° 50'59.18" RT	62° 16'40.88"	123.99'	171.57'	92.00'	N 89° 24'31.84" E	S 16° 15'31.02" W	111+72.35	110+48.35	112+19.92	6,922,596.20	2,411,716.90

SUPERELEVATION DATA

CHAIN NAME	CURVE NAME	BEGIN CROSS SLOPE	BEGIN TRANSITION	BEGIN FULL SUPER	SUPER RATE	END FULL SUPER	END TRANSITION	END CROSS SLOPE
Existing SH360	SH360-2	-2.00%	731+66	735+40	2.40%	736+90	-	-
SH360	SH360-2	2.40%	736+90	737+70	3.34%	744+20	752+21	-2.00%
	SH360-2	-2.00%	752+21	-	-	-	754+31	-2.50%
NORTH - LYNN CREEK	RSXLYNN-2	-0.43%	16+30	17+97	-5.15%	18+80	20+25	-2.00%
	RSXLYNN-3	-2.00%	21+90	23+90	5.15%	26+10	28+10	-2.00%



PARCEL #	PROPERTY OWNER
1	BNNC INC
2	MOORE-WINDFALL JOINT VENTURE
3	KINGSWOOD 72 LTD
4	KINGSWOOD 72 LTD
5	TRI-B PROPERTIES LTD
6	RETAIL AT GRAND PRAIRIE LTD
7	RETAIL AT GRAND PRAIRIE LTD
8	GRAND PRAIRIE STORAGE PARTNERS
9	BH HOMEOWNERS ASSOCIATION INC
10	ONG, ANH

PARCEL #	PROPERTY OWNER
11	ETUMNU, PATRICK
12	AMERSON, KAREN
13	BROOKS, MICKEY ETUX LETTIE
14	HO, TUONG K
15	DE LEON, GILBERTO ETUX BELEN
16	ANTAL, MICHAEL ETUX MELISSA
17	TU, MICHELLE NGUYET
18	GRAND PRAIRIE, CITY OF
19	BH HOMEWONERS ASSOCIATION INC
20	PHAM, SON C

PARCEL #	PROPERTY OWNER
21	JACKSON, TONYA LASHELLE
22	ALVAREZ, ABEL ETUX MARIA
23	PHUNG, ANNIE ETVIR PHUOC TRAN
24	HAAG, RICHARD LEE ETUX GINGER
25	GRAVES, ANTHONY G ETUX KIMBER
26	BRACHO, PABLO E
27	WILLIAMS, R F ETUX ALISA N
28	LOTT, STEFANIE N
29	LO, ANH
30	HICKS, VERNA J

PARCEL #	PROPERTY OWNER
31	ALAWADAT, FADI M
32	WILLS, LEON ETUX RACHEL M
33	OWNER NOT LISTED
34	TRENT, ARLIS E ETUX MARCIA M
35	BH HOMEOWNERS ASSOCIATION INC
36	ARDC GPWEST LTD
37	GRAND BANK OF TEXAS
37A	YK CAR WASH ENTERPRISE INC
38	FIREBRAND PROPERTIES LP
39	ONCOR ELECTRIC DELIVERY CO LLC

PARCEL #	PROPERTY OWNER
40	TEXAS TRUST CREDIT UNION
40A	RLM PROPERTIES LLC
41	CHAFFEE, HAROLD D TR
42	7-ELEVEN INC
43	ROSEWOOD PROPERTY CO
44	TONG, THANH D
45	NGUYEN, JOHNNY C
46	SMITH, JOHN R JR ETUX CONSTANC
47	BANH, MARY
48	LARA, ISMAEL ETUX MARIA C

PARCEL #	PROPERTY OWNER
49	BOYKIN, WADE
50	WALTON, HENRY P
51	CHU, YEN
52	DECKMAN, KENDRICK
53	AMADOR, SOCORRO ETAL
54	ROBERTS, HARRIET A
55	OWNER NOT LISTED
56	GASTON, SUSAN
57	MANIFACIO-CANALE, JESUS
58	ROBINSON, NICOLE

PARCEL #	PROPERTY OWNER
59	SANTILLAN, MURILLO R
60	SERNAQUE, PABLO ETUX GRACIELA
61	WRIGHT, RANDY L
62	DENTON, BRENDA L
63	BINION, LARRY ETUX NANCY
64	FARMER, EDDIE M ETUX GLORIA M
65	WASSON, LINDA
66	ZIALU, MOSES E ETUX LYDIA A
67	O'PULOS, MICHAEL & T O'PULOS
68	MOORE, P & W MOORE & R CRISS

PARCEL #	PROPERTY OWNER
69	ALDRIDGE, KENNETH M
70	TALLEY, TRIDELL ETUX TAMESIA C
71	VANNATTA, DAVID LEE
72	MALIL, MATHEW ETUX THANKAMMA
73	NELSON, WADE
74	CAZARES, ALFREDO ETUX ISABEL
75	CHESAPEAKE LAND DEV CO LLC
76	CHESAPEAKE LAND DEV CO LLC
76A	111 REALTY INVESTORS LP
77	HARWOOD 360 CORP

PARCEL #	PROPERTY OWNER
77A	TITAN 986 TX LLC
77B	HARWOOD 360 HOLDINGS LTD
77C	LEE, MICHAEL R & JUDY SOMMERS
77D	BANKSTON, DONALD BLAIR
78	ALVIN B CHAN INC
79	REISA REALTY INC
80	KIMCO WEBER LAKE PRAIRIE TC LP
81	KIMCO WEBER LAKE PRAIRIE TC LP
82	KIMCO WEBER LAKE PRAIRIE TC LP
83	TARGET CORPORATION

PARCEL #	PROPERTY OWNER
84	HOME DEPOT USA INC
85	KIMCO WEBER LAKE PRAIRIE TC LP
86	KIMCO WEBER LAKE PRAIRIE TC LP
87	KIMCO WEBER LAKE PRAIRIE TC LP
88	ONCOR ELECTRIC DELIVERY CO LLC
89	ENGLISH, CHARLES E
90	TARRANT COUNTY COLLEGE DIST
91	TARRANT COUNTY COLLEGE DIST
92	TARRANT COUNTY COLLEGE DIST
93	TARRANT COUNTY COLLEGE DIST

PARCEL #	PROPERTY OWNER
94	FRICKS, DARCY L ETAL
94A	ALANSARI, OLENA NEVINCHANA
94B	COX, RONALD G
94C	COX, RONALD G
94D	R J EXPRESS LTD
94E	DINH, KELVIN & T NGUYEN
95	KNAPP, SANDRA GAIL
96	KP LAND PARTNERS LP
97	U S A
98	KP LAND PARTNERS LP

Texas Department of Transportation®
Fort Worth District
Brian R. Barth, P.E. District Engineer
NTTA
NORTH TEXAS TOLLWAY AUTHORITY
© 2013 by North Texas Tollway Authority; all rights reserved
Gerry Carrigan, Executive Director
STATE HIGHWAY 360
From Green Oaks Boulevard to US 287
Design Schematic
Project Length = 9.20 Miles
CSJ # 2266-02-136
CONTRACT # 02282-SH-360 PS-PD
DESIGN SPEEDS
100% SUBMITTAL
NOVEMBER 13, 2013
ROLL INDEX
PRELIMINARY
SUBJECT TO CHANGE BASED ON FURTHER DEVELOPMENTS RESULTING FROM PUBLIC INPUT AND TECHNICAL REVIEW
ROLL 1 OF 12

Texas Department of Transportation
Fort Worth District
Brian R.Barth,P.E.District Engineer

NTTA.
NORTH TEXAS TOLLWAY AUTHORITY
A 100 % NON TAX TOLL REVENUE AGENCY
Gerry Carrigan,Executive Director

STATE HIGHWAY 360

From Green Oaks Boulevard to US 287
Tarrant County, Texas
Project Length = 5.22 Miles
CSJ # 2266-02-158
CONTRACT # 02282-SH-360 PS-PD

DESIGN SPEEDS

MAIN LANES	70 MPH
RAMP CONNECTORS	50 MPH
CROSS STREET RAMPS	30 MPH
CROSS STREET RAMPS (SHARED USE PATH)	15

Texas Department of Transportation®
Fort Worth District
Brian R. Barth, P.E. District Engineer

NTTA
NORTH TEXAS TOLLWAY AUTHORITY
© 2013 by North Texas Tollway Authority; all rights reserved
Gerry Carrigan, Executive Director

STATE HIGHWAY 360

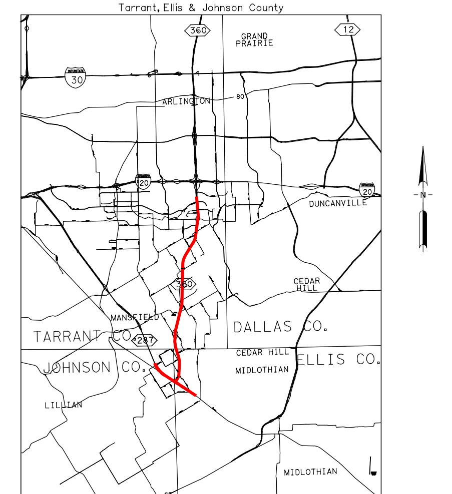
From Green Oaks Boulevard to US 287
Design Schematic
Project Length = 9.20 Miles
CSJ # 2266-02-136
CONTRACT # 02282-SH-360 PS-PD

DESIGN SPEEDS

DESIGN SPEEDS AND FUNCTIONAL CLASSIFICATIONS:

MAINLANES (URBAN FREEWAY)	- 70 MPH
RAMPS (URBAN FREEWAY)	- 50 MPH
DIRECT CONNECTOR (URBAN FREEWAY)	- 40 MPH
FRONTAGE ROADS (URBAN COLLECTOR)	- 40 MPH
CROSS STREETS	
SUBLETT RD / CAMP WISDOM RD (URBAN MAJOR ARTERIAL)	- 35 MPH
WEBB LYNN RD / LYNN CREEK PKWY (URBAN MINOR COLLECTOR)	- 35 MPH
NEW YORK AVE (URBAN MAJOR COLLECTOR)	- 40 MPH
EDEN RD (URBAN MINOR ARTERIAL)	- 40 MPH
DEBBIE LN / RAGLAND RD (URBAN MAJOR ARTERIAL)	- 35 MPH
HOLLAND RD (URBAN PRINCIPAL ARTERIAL)	- 30 MPH
BROAD ST (URBAN PRINCIPAL ARTERIAL)	- 40 MPH
HERITAGE PKWY (URBAN PRINCIPAL ARTERIAL)	- 40 MPH
LONE STAR RD (URBAN PRINCIPAL ARTERIAL)	- 40 MPH
MATLOCK RD AT SH 360 (URBAN MAJOR ARTERIAL)	- 40 MPH
MATLOCK RD AT US 287 (RURAL MAJOR ARTERIAL)	- 30 MPH
ELLIS DR/ST (RURAL MAJOR COLLECTOR)	- 30 MPH
ST.PAUL RD (RURAL MINOR COLLECTOR)	- 30 MPH
UTURNS (URBAN COLLECTOR)	- 20 MPH

Tarrant, Ellis & Johnson County



100% SUBMITTAL
NOVEMBER 13, 2013

ROLL INDEX

ROLL 1: SH 360 MAINLANES STA 736+90 TO STA 794+00 RAMPS AND MAJOR CROSS STREETS
ROLL 2: SH 360 MAINLANES STA 794+00 TO STA 878+00 RAMPS AND MAJOR CROSS STREETS
ROLL 3: SH 360 MAINLANES STA 878+00 TO STA 966+00 RAMPS AND MAJOR CROSS STREETS
ROLL 4: SH 360 MAINLANES STA 966+00 TO STA 1049+00 RAMPS AND MAJOR CROSS STREETS
ROLL 5: SH 360 MAINLANES STA 1049+00 TO STA 1110+00 RAMPS AND MAJOR CROSS STREETS
ROLL 6: SH 360 MAINLANES STA 1110+00 TO STA 1209+00 RAMPS AND MAJOR CROSS STREETS
ROLL 7: SH 360 MAINLANES STA 1209+00 TO STA 1243+00 RAMPS, US 287 MAINLANES AND FRONTAGE ROADS STA 193+40 TO 343+00
ROLL 8: US 287 MAINLANES AND FRONTAGES ROAD PROFILES (US287E,US287W,FREB,FRWB)
ROLL 9: SH 360 NORTHBOUND FRONTAGE ROAD PROFILES (FRNB)
ROLL 10: SH 360 NORTHBOUND AND SOUTHBOUND FRONTAGE ROAD PROFILES (FRNB & FRSB)
ROLL 11: SH 360 SOUTHBOUND FRONTAGE ROAD PROFILE (FRSB), UTURN PROFILES AND MAINLANES PROFILE STA 1209+00 TO END
ROLL 12: DIRECT CONNECTOR PROFILES

PRELIMINARY
SUBJECT TO CHANGE BASED ON FURTHER DEVELOPMENTS RESULTING FROM PUBLIC INPUT AND TECHNICAL REVIEW

DATE APPROVED | DATE SUBMITTED

SCHEMATIC PREPARED BY:
HDR ENGINEERING, INC.
REGISTRATION NUMBER F-754
FOR INTERIM REVIEW ONLY. NOT FOR PERMITTING, BIDDING OR CONSTRUCTION.
Prepared by or under the Direct Supervision of:

NAME	P.E. NUMBER
BRIAN ANDREW SWINDELL	80688
M. SHANE WALTERS	100195

NOVEMBER 13, 2013
DATE

SCALE 0 50 100 150 200 300

ROLL 3 OF 12

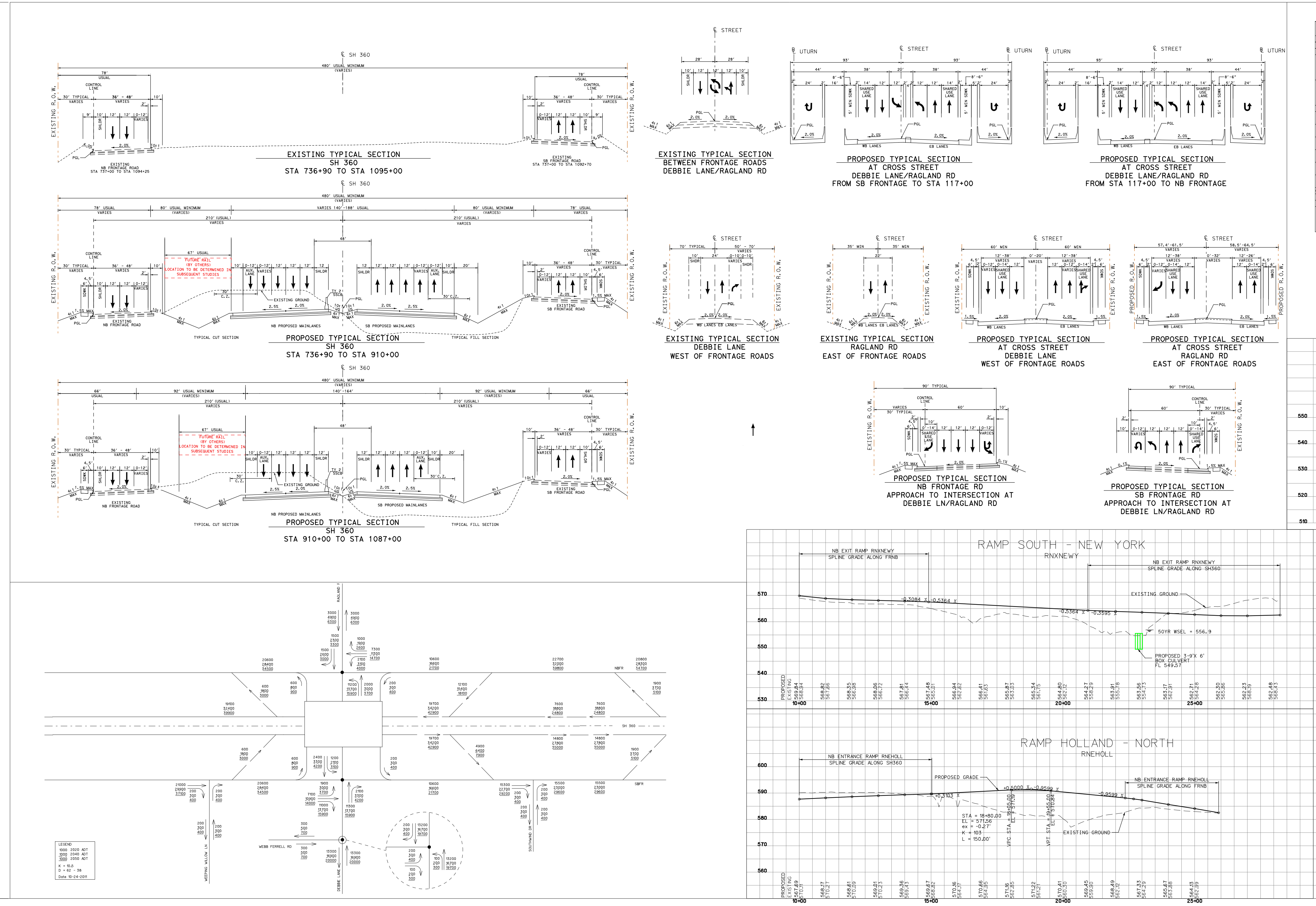
HDR Engineering, Inc.
17111 Preston Road, Suite 200
Dallas, Texas 75248-1229

LEGEND

- ALIGNMENT
- PROPOSED R.O.W.
- EXISTING R.O.W.
- PROPOSED ACCESS DENIED
- EXISTING ACCESS DENIED
- BENTS/ABUTMENTS
- PROPOSED RETAINING WALL
- PROPOSED NOISE WALL
- CITY LIMITS
- PROPOSED TOLL GANTRY
- DIRECTION OF TRAFFIC, ONE LANE
- (XX) PARCEL NUMBER
- PARCEL BOUNDARY
- PAVEMENT TO BE REMOVED
- PROPOSED MAINLANES
- PROPOSED RAMPS, DIRECT CONNECTORS, COLLECTOR DISTRIBUTORS
- PROPOSED FRONTAGE ROADS
- PROPOSED CROSS STREETS / U-TURNS
- PROPOSED CONCRETE STRUCTURES
- PROPOSED STEEL STRUCTURES
- PROPOSED SHOULDERS, GORES
- PROPOSED SIDEWALKS
- PROPOSED CONSTRUCTION BY OTHERS

GENERAL NOTES:

1. EXISTING PAVEMENT WITHIN LIMITS OF PROPOSED RECONSTRUCTION IS ASSUMED TO BE REMOVED.
2. EXISTING RIGHT OF WAY HAS NOT BEEN FIELD SURVEYED. SCHEMATIC LAYOUTS ARE BASED ON AERIAL SURVEY, SUPPLEMENTAL FIELD SURVEYS AND RECORD PLANS ONLY
3. PARCEL OWNERSHIP WAS OBTAINED FROM TARRANT APPRAISAL DISTRICT, 2013 AND ELLIS COUNTY APPRAISAL DISTRICT, 2013, JOHNSON COUNTY APPRAISAL DISTRICT, 2013.
4. APPROXIMATE 100 YEAR FLOODPLAIN LIMITS ARE BASED UPON FEMA FLOOD INSURANCE RATE MAPS NUMBER 48439C0365K,48439C0480K,48439C0490K,48113C0590J.
5. ASSUME SIX FOOT STRUCTURE DEPTH USED FOR CLEARANCE CALCULATIONS UNLESS NOTED OTHERWISE

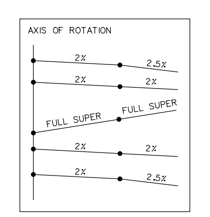


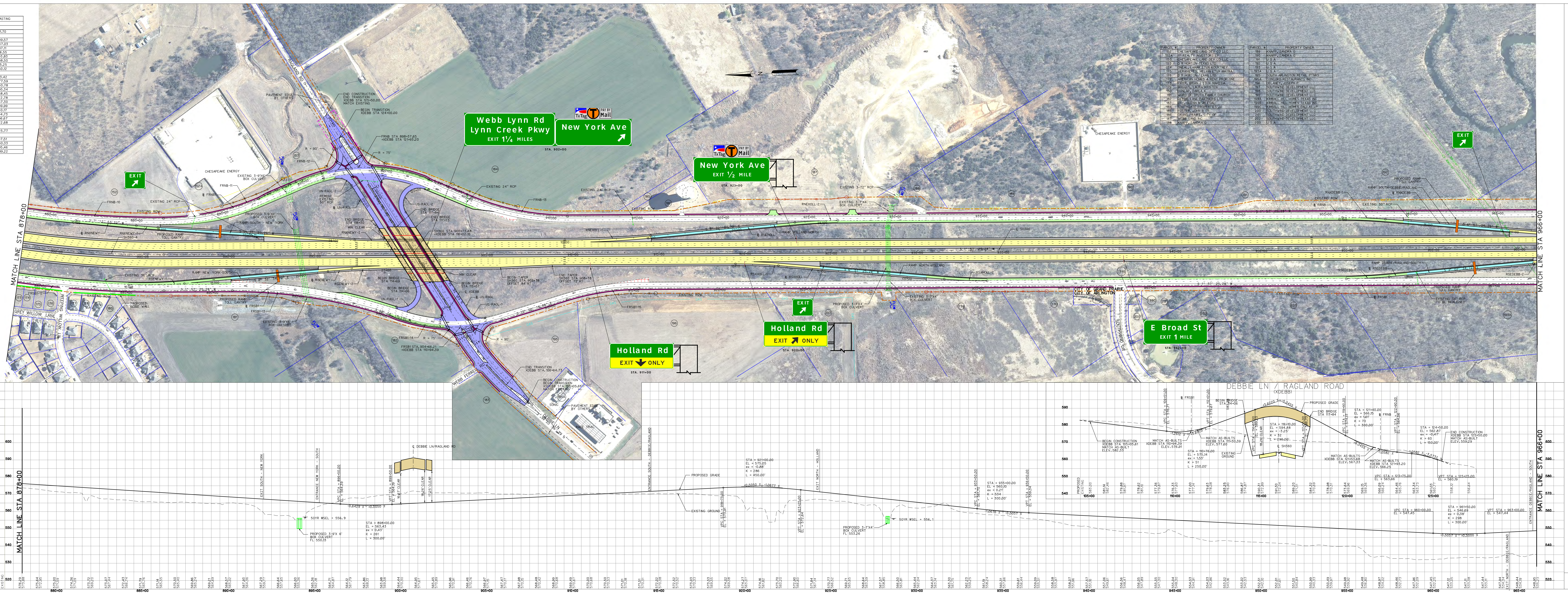
CURVE DATA

CHAIN NAME	CURVE NO.	DELTA	DEGREE	TANGENT	LENGTH	RADIUS	BACK BEARING	AHEAD BEARING	PI STATION	PC STATION	PT STATION	PI NORTHING	PI EASTING
MAINLANE													
SH 360	SH360-4	31° 15' 16.98" LT	1° 00' 00.00"	1,602.68'	3,125.47'	5,729.58'	S 33° 12' 42.26" W	S 1° 57' 25.28" W	870+99.20	854+96.52	886+21.99	6,911,636.21	2,407,101.70
FRONTAGE ROADS													
SH 360 NORTHBOUND FRONTAGE RD	FRNB-10	31° 15' 16.98" LT	1° 02' 16.97"	1,543.94'	3,010.92'	5,519.58'	S 33° 12' 42.26" W	S 1° 57' 25.29" W	871+89.42	856+45.48	886+56.40	6,911,570.33	2,407,309.57
	FRNB-11	22° 41' 25.67" LT	4° 00' 00.00"	287.40'	567.26'	1,432.39'	S 1° 57' 25.27" W	S 20° 44' 00.40" E	889+43.79	886+56.40	892+23.66	6,909,740.06	2,407,247.03
	FRNB-12	45° 24' 43.06" RT	6° 00' 00.00"	399.57'	756.87'	954.93'	S 20° 44' 00.36" E	S 24° 40' 42.69" W	898+96.89	894+97.32	902+54.18	6,908,841.65	2,407,587.11
	FRNB-13	22° 43' 17.39" LT	4° 00' 00.00"	287.80'	568.04'	1,432.39'	S 24° 40' 42.66" W	S 1° 57' 25.27" W	908+13.99	905+26.19	910+94.23	6,907,969.89	2,407,186.55
SH 360 SOUTHBOUND FRONTAGE RD	FRSB1-12	31° 15' 16.98" LT	0° 57' 52.72"	1,661.42'	3,240.03'	5,939.58'	S 33° 12' 42.26" W	S 1° 57' 25.28" W	871+40.07	854+78.65	887+18.68	6,911,702.08	2,406,893.83
	FRSB1-13	17° 26' 49.89" RT	2° 00' 00.00"	439.58'	872.36'	2,864.79'	S 1° 57' 25.28" W	S 19° 24' 15.17" W	895+55.78	891+16.19	899+88.55	6,909,205.03	2,406,808.50
	FRSB1-14	34° 24' 32.02" LT	6° 00' 00.00"	295.68'	573.48'	954.93'	S 19° 24' 15.17" W	S 15° 00' 16.86" E	904+31.64	901+35.96	907+09.44	6,908,372.49	2,406,515.25
	FRSB1-15	16° 57' 42.14" RT	4° 00' 00.00"	213.58'	424.04'	1,432.39'	S 15° 00' 16.86" E	S 1° 57' 25.28" W	913+20.92	911+07.34	915+31.38	6,907,496.26	2,406,750.12
RAMPS													
SOUTH-NEW YORK	RNXNEWY-1	1° 15' 28.04" LT	1° 00' 00.00"	62.89'	125.78'	5,729.58'	S 7° 12' 53.32" W	S 5° 57' 25.28" W	14+15.31	13+52.41	14+78.19	6,910,124.00	2,407,213.42
	RNXNEWY-2	4° 00' 00.00" LT	2° 00' 00.00"	100.04'	200.00'	2,864.79'	S 5° 57' 25.28" W	S 1° 57' 25.28" W	27+24.15	26+24.11	28+24.11	6,908,822.22	2,407,077.59
HOLLAND-NORTH	RNEHOLL-1	5° 00' 00.00" LT	1° 00' 00.00"	250.16'	500.00'	5,729.58'	S 1° 57' 25.28" W	S 3° 02' 34.72" E	12+50.16	10+00.00	15+00.00	6,907,452.25	2,407,030.78
	RNEHOLL-2	5° 00' 00.00" RT	2° 00' 00.00"	125.08'	250.00'	2,864.79'	S 3° 02' 34.72" E	S 1° 57' 25.28" W	24+66.05	23+40.98	25+90.98	6,906,237.75	2,407,095.34
NEW YORK-SOUTH	RSENEWY-1	6° 29' 09.62" LT	2° 00' 00.00"	162.32'	324.30'	2,864.79'	S 3° 56' 34.91" W	S 2° 32' 34.72" E	11+62.32	10+00.00	13+24.30	6,910,083.09	2,406,868.45
	RSENEWY-2	4° 30' 00.00" RT	1° 00' 00.00"	225.12'	450.00'	5,729.58'	S 2° 32' 34.72" E	S 1° 57' 25.28" W	23+86.52	21+61.41	26+11.41	6,908,859.75	2,406,922.78
NORTH-HOLLAND	RSXHOLL-1	5° 00' 00.00" RT	2° 00' 00.00"	125.08'	250.00'	2,864.79'	S 1° 57' 25.28" W	S 6° 57' 25.28" W	11+25.08	10+00.00	12+50.00	6,906,592.07	2,406,857.30
	RSXHOLL-2	5° 00' 00.00" LT	2° 00' 00.00"	125.08'	250.00'	2,864.79'	S 6° 57' 25.28" W	S 1° 57' 25.28" W	23+41.13	22+16.05	24+66.05	6,905,384.81	2,406,709.99
DEBBIE/RAGLAND-SOUTH	RSEDEBB-1	5° 00' 00.00" LT	2° 00' 00.00"	125.08'	250.00'	2,864.79'	S 1° 57' 25.28" W	S 3° 02' 34.72" E	12+62.76	11+37.68	13+87.68	6,903,048.96	2,406,630.17
	RSEDEBB-2	5° 00' 00.00" RT	1° 00' 00.00"	250.16'	500.00'	5,729.58'	S 3° 02' 34.72" E	S 1° 57' 25.28" W	24+78.82	22+28.66	27+28.66	6,901,834.46	2,406,694.73
SOUTH-DEBBIE/RAGLAND	RNXDEBB-1	5° 00' 00.00" RT	2° 00' 00.00"	125.08'	250.00'	2,864.79'	S 1° 57' 25.28" W	S 6° 57' 25.28" W	11+25.08	10+00.00	12+50.00	6,903,057.49	2,406,986.67
	RNXDEBB-2	5° 00' 00.00" LT	2° 00' 00.00"	125.08'	250.00'	2,864.79'	S 6° 57' 25.28" W	S 1° 57' 25.28" W	24+78.81	23+53.73	26+03.73	6,901,713.57	2,406,822.68
CROSS STREETS													
DEBBIE LN	XDEBB-1	15° 52' 54.32" RT	4° 00' 00.00"	199.80'	397.04'	1,432.39'	N 43° 46' 02.46" E	N 59° 38' 56.78" E	108+26.36	106+26.56	110+23.60	6,908,190.55	2,406,325.77
TURNAROUND													
RAGLAND RD	UN-RAGL-1	139° 45' 18.39" LT	62° 16' 40.88"	251.10'	224.41'	92.00'	S 19° 24' 15.17" W	N 59° 38' 56.78" E	114+80.78	112+29.68	114+54.09	6,908,459.82	2,406,607.51
	UN-RAGL-2	69° 04' 41.73" LT	62° 16' 40.88"	63.32'	110.92'	92.00'	N 59° 38' 56.78" E	N 9° 25' 44.95" W	121+91.26	121+27.94	122+38.86	6,908,959.19	2,407,460.33
	US-RAGL-1	69° 10' 54.25" RT	62° 16' 40.88"	63.44'	111.09'	92.00'	N 9° 31' 57.47" W	N 59° 38' 56.78" E	110+99.43	110+35.98	111+47.07	6,908,244.18	2,406,595.46
	US-RAGL-2	145° 01' 45.90" RT	62° 16' 40.88"	292.05'	232.87'	92.00'	N 59° 38' 56.78" E	S 24° 40' 42.68" W	121+19.34	118+27.29	120+60.16	6,908,767.51	2,407,489.22

SUPERELEVATION DATA

CHAIN NAME	CURVE NAME	BEGIN CROSS SLOPE	BEGIN TRANSITION	BEGIN FULL SUPER	SUPER RATE	END FULL SUPER	END TRANSITION	END CROSS SLOPE
SH360	SH360-4	-2.50%	846+50	-	-	-	848+60	-2.00%
	SH360-4	-2.00%	848+60	858+20	3.34%	883+10	892+70	-2.00%
	SH360-4	-2.00%	892+70	-	-	-	894+80	-2.50%





Texas Department of Transportation®
Fort Worth District
Brian R. Barth, P.E. District Engineer
NTTA
STATE HIGHWAY 360
From Green Oaks Boulevard to US 287
Design Schematic
Project Length = 9.20 Miles
CSJ # 2266-02-136
CONTRACT # 02282-SH-360 PS-PD
DESIGN SPEEDS
ROLL INDEX
100% SUBMITTAL
NOVEMBER 13, 2013
PRELIMINARY
SUBJECT TO CHANGE BASED ON FURTHER DEVELOPMENTS RESULTING FROM PUBLIC INPUT AND TECHNICAL REVIEW
ROLL 3 OF 12

Texas Department of Transportation
Fort Worth District
Brian R. Barth, P.E. District Engineer

NTTA
NORTH TEXAS TOLLWAY AUTHORITY
© 2013 by North Texas Tollway Authority; all rights reserved
Gerry Carrigan, Executive Director

STATE HIGHWAY 360

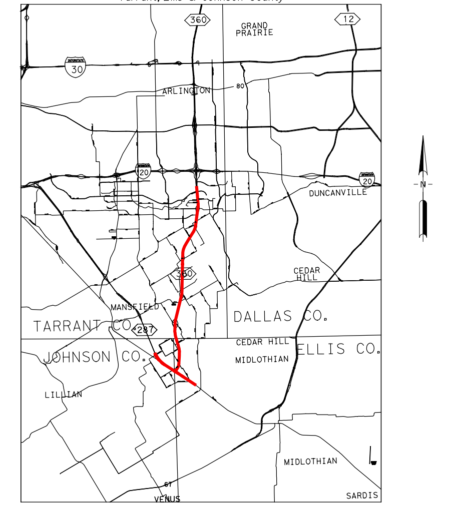
From Green Oaks Boulevard to US 287
Design Schematic
Project Length = 9.20 Miles
CSJ # 2266-02-136
CONTRACT # 02282-SH-360 PS-PD

DESIGN SPEEDS

DESIGN SPEEDS AND FUNCTIONAL CLASSIFICATIONS:

MAINLANES (URBAN FREEWAY)	- 70 MPH
RAMPS (URBAN FREEWAY)	- 50 MPH
DIRECT CONNECTOR (URBAN FREEWAY)	- 40 MPH
FRONTAGE ROADS (URBAN COLLECTOR)	- 40 MPH
CROSS STREETS	
SUBLETT RD / CAMP WISDOM RD (URBAN MAJOR ARTERIAL)	- 35 MPH
WEBB LYNN RD / LYNN CREEK PKWY (URBAN MINOR COLLECTOR)	- 35 MPH
NEW YORK AVE (URBAN MAJOR COLLECTOR)	- 40 MPH
EDEN RD (URBAN MINOR ARTERIAL)	- 40 MPH
DEBBIE LN / RAGLAND RD (URBAN MAJOR ARTERIAL)	- 35 MPH
HOLLAND RD (URBAN PRINCIPAL ARTERIAL)	- 30 MPH
BROAD ST (URBAN PRINCIPAL ARTERIAL)	- 40 MPH
HERITAGE PKWY (URBAN PRINCIPAL ARTERIAL)	- 40 MPH
LONE STAR RD (URBAN PRINCIPAL ARTERIAL)	- 40 MPH
MATLOCK RD AT SH 360 (URBAN MAJOR ARTERIAL)	- 40 MPH
MATLOCK RD AT US 287 (RURAL MAJOR ARTERIAL)	- 30 MPH
ELLIS DR/ST (RURAL MAJOR COLLECTOR)	- 30 MPH
ST.PAUL RD (RURAL MINOR COLLECTOR)	- 30 MPH
UTURNS (URBAN COLLECTOR)	- 20 MPH

Tarrant, Ellis & Johnson County



100% SUBMITTAL
NOVEMBER 13, 2013

ROLL INDEX

ROLL 1: SH 360 MAINLANES STA 736+90 TO STA 794+00 RAMPS AND MAJOR CROSS STREETS
ROLL 2: SH 360 MAINLANES STA 794+00 TO STA 878+00 RAMPS AND MAJOR CROSS STREETS
ROLL 3: SH 360 MAINLANES STA 878+00 TO STA 966+00 RAMPS AND MAJOR CROSS STREETS
ROLL 4: SH 360 MAINLANES STA 966+00 TO STA 1049+00 RAMPS AND MAJOR CROSS STREETS
ROLL 5: SH 360 MAINLANES STA 1049+00 TO STA 1110+00 RAMPS AND MAJOR CROSS STREETS
ROLL 6: SH 360 MAINLANES STA 1110+00 TO STA 1209+00 RAMPS AND MAJOR CROSS STREETS
ROLL 7: SH 360 MAINLANES STA 1209+00 TO STA 1243+00 RAMPS, US 287 MAINLANES AND FRONTAGE ROADS STA 193+40 TO 343+00
ROLL 8: US 287 MAINLANES AND FRONTAGES ROAD PROFILES (US287E, US287W, FREB, FRWB)
ROLL 9: SH 360 NORTHBOUND FRONTAGE ROAD PROFILES (FRNB)
ROLL 10: SH 360 NORTHBOUND AND SOUTHBOUND FRONTAGE ROAD PROFILES (FRNB & FRSB)
ROLL 11: SH 360 SOUTHBOUND FRONTAGE ROAD PROFILE (FRSB), UTURN PROFILES AND MAINLANES PROFILE STA 1209+00 TO END
ROLL 12: DIRECT CONNECTOR PROFILES

PRELIMINARY
SUBJECT TO CHANGE BASED ON FURTHER DEVELOPMENTS RESULTING FROM PUBLIC INPUT AND TECHNICAL REVIEW

DATE APPROVED | DATE SUBMITTED

SCHEMATIC PREPARED BY:
HDR ENGINEERING, INC.
REGISTRATION NUMBER F-754
FOR INTERIM REVIEW ONLY, NOT FOR PERMITTING, BIDDING OR CONSTRUCTION.
Prepared by or under the Direct Supervision of:

NAME	P.E. NUMBER
BRIAN ANDREW SWINDELL	80688
M. SHANE WALTERS	100195

NOVEMBER 13, 2013
DATE

SCALE 0 50 100 150 200 300

ROLL 4 OF 12

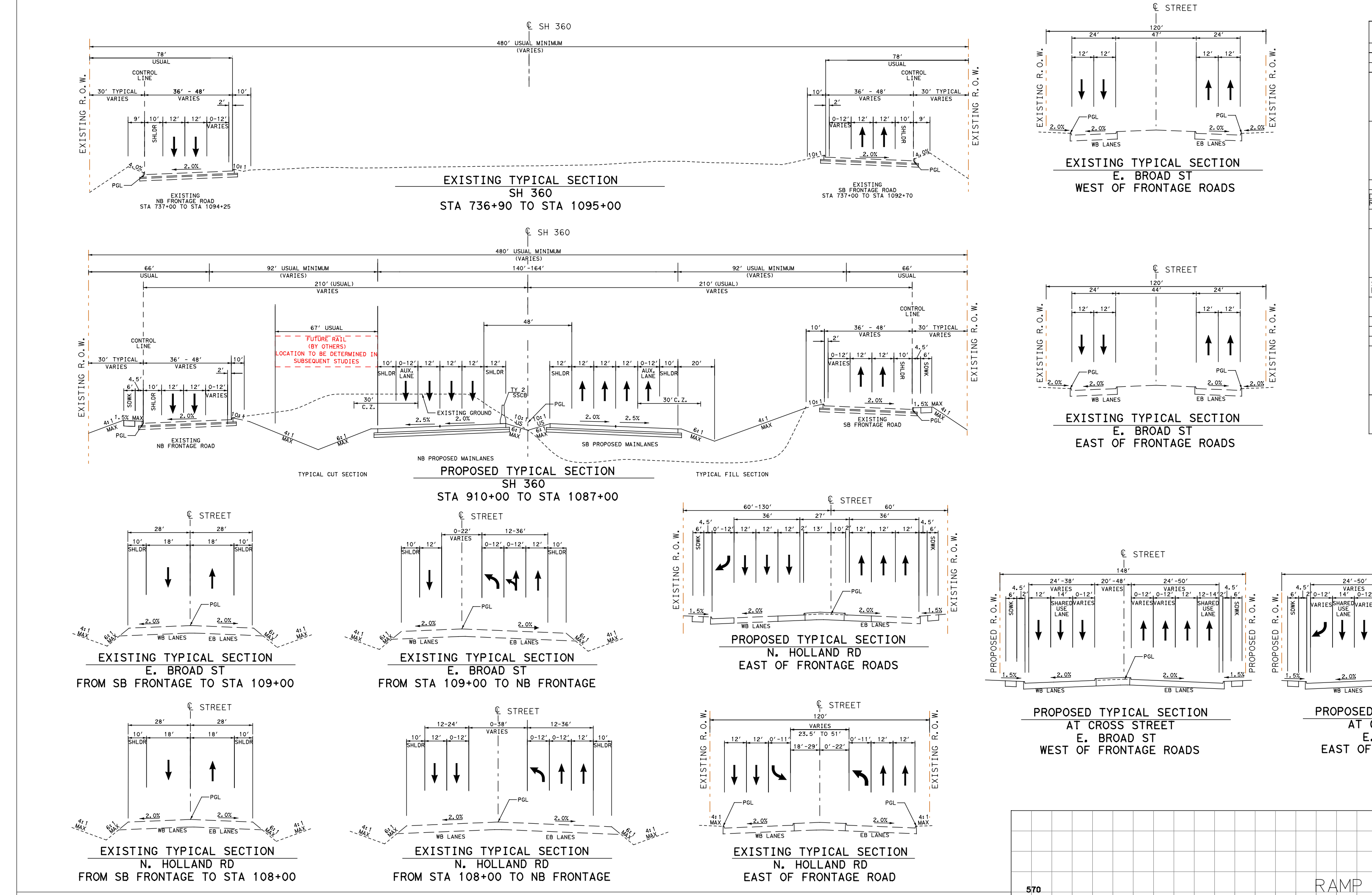
HDR Engineering, Inc.
17111 Preston Road, Suite 200
Dallas, Texas 75248-1229

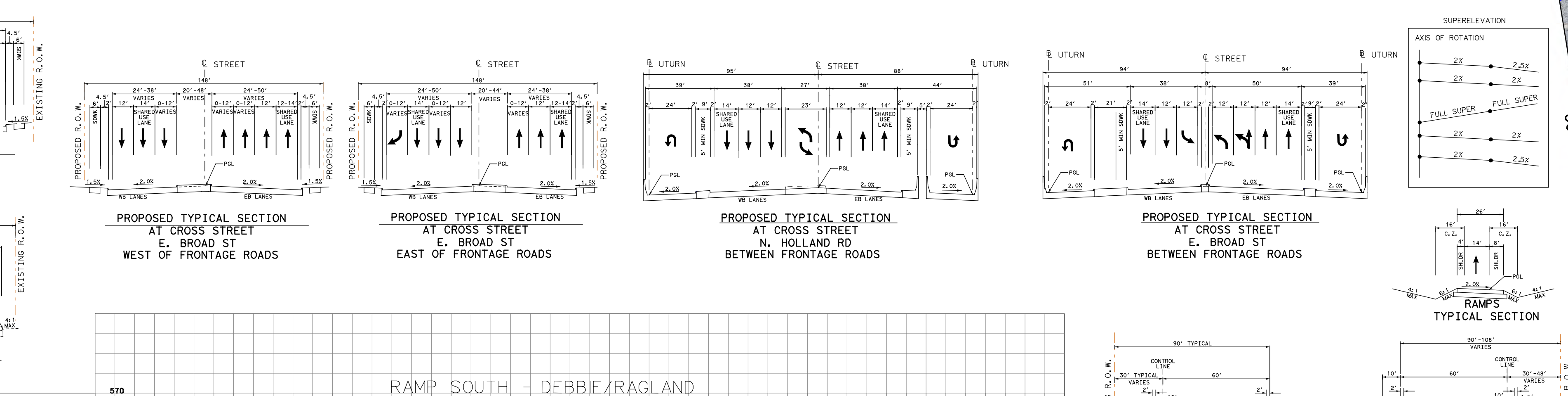
LEGEND

- ALIGNMENT
- PROPOSED R.O.W.
- EXISTING R.O.W.
- PROPOSED ACCESS DENIED
- EXISTING ACCESS DENIED
- BENTS/ABUTMENTS
- PROPOSED RETAINING WALL
- PROPOSED NOISE WALL
- CITY LIMITS
- PROPOSED TOLL GANTRY
- DIRECTION OF TRAFFIC, ONE LANE
- PARCEL NUMBER
- PARCEL BOUNDARY
- PAVEMENT TO BE REMOVED
- PROPOSED MAINLANES
- PROPOSED RAMPS, DIRECT CONNECTORS, COLLECTOR DISTRIBUTORS
- PROPOSED FRONTAGE ROADS
- PROPOSED CROSS STREETS / U-TURNS
- PROPOSED CONCRETE STRUCTURES
- PROPOSED STEEL STRUCTURES
- PROPOSED SHOULDERS, GORES
- PROPOSED SIDEWALKS
- PROPOSED CONSTRUCTION BY OTHERS

GENERAL NOTES:

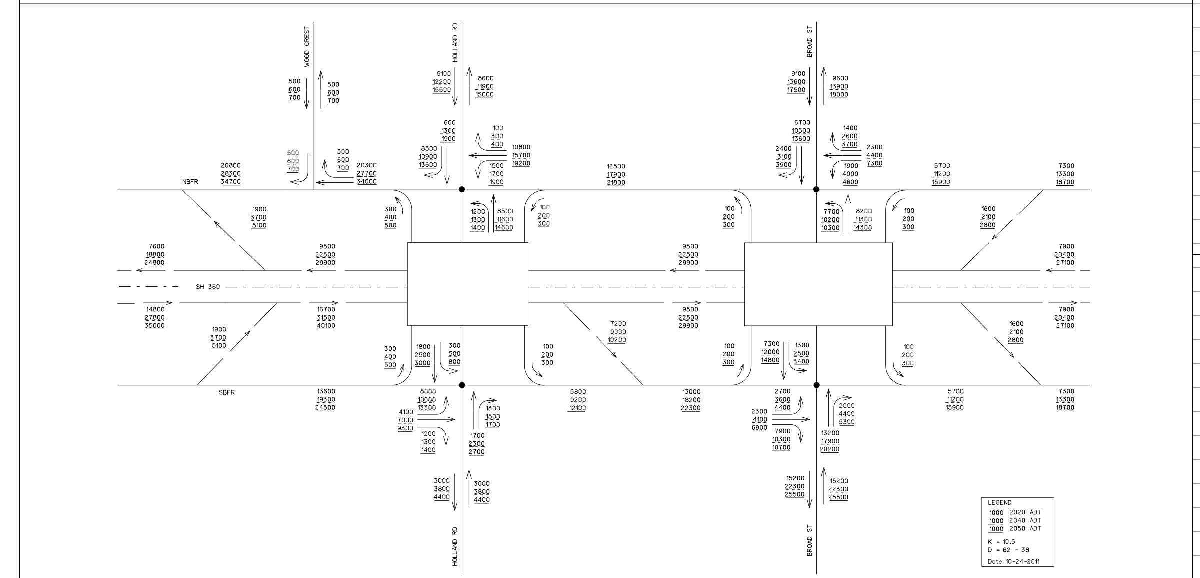
1. EXISTING PAVEMENT WITHIN LIMITS OF PROPOSED RECONSTRUCTION IS ASSUMED TO BE REMOVED.
2. EXISTING RIGHT OF WAY HAS NOT BEEN FIELD SURVEYED. SCHEMATIC LAYOUTS ARE BASED ON AERIAL SURVEY, SUPPLEMENTAL FIELD SURVEYS AND RECORD PLANS ONLY
3. PARCEL OWNERSHIP WAS OBTAINED FROM TARRANT APPRAISAL DISTRICT, 2013 AND ELLIS COUNTY APPRAISAL DISTRICT, 2013, JOHNSON COUNTY APPRAISAL DISTRICT, 2013.
4. APPROXIMATE 100 YEAR FLOODPLAIN LIMITS ARE BASED UPON FEMA FLOOD INSURANCE RATE MAPS NUMBER 48439C0365K, 48439C0480K, 48439C0490K, 48113C0590J.
5. ASSUME SIX FOOT STRUCTURE DEPTH USED FOR CLEARANCE CALCULATIONS UNLESS NOTED OTHERWISE

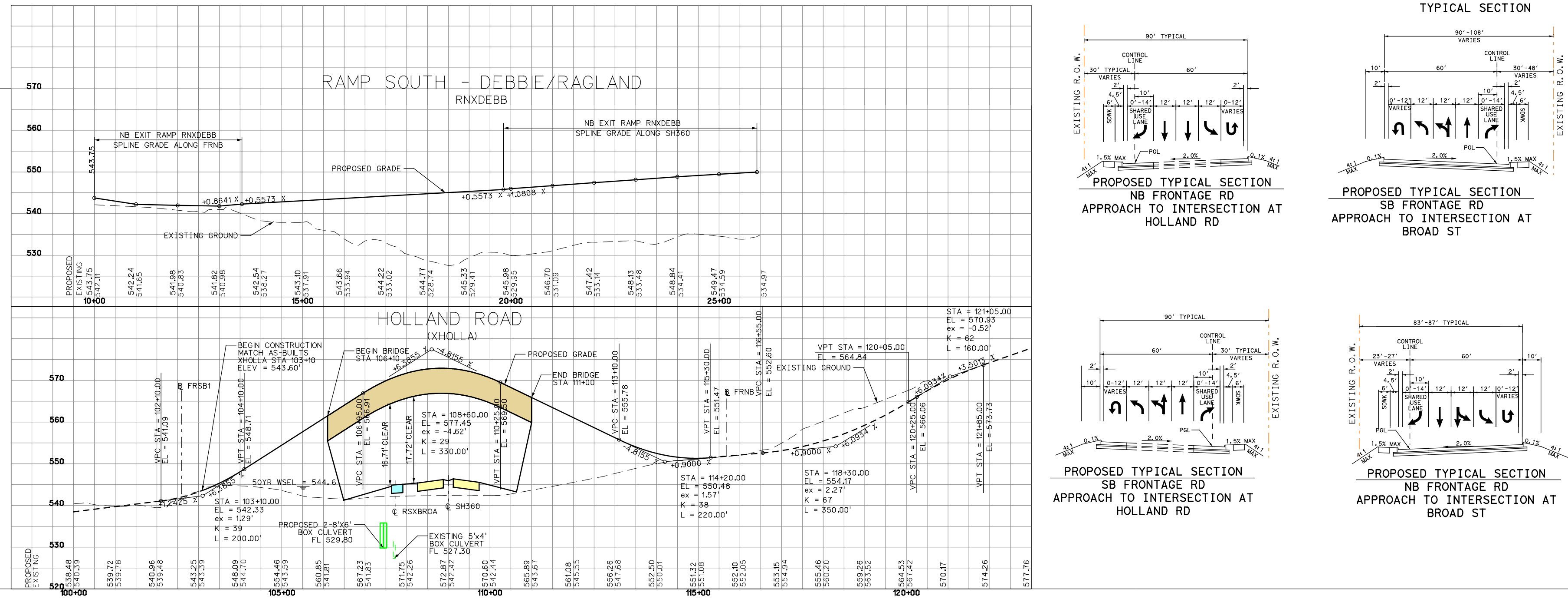


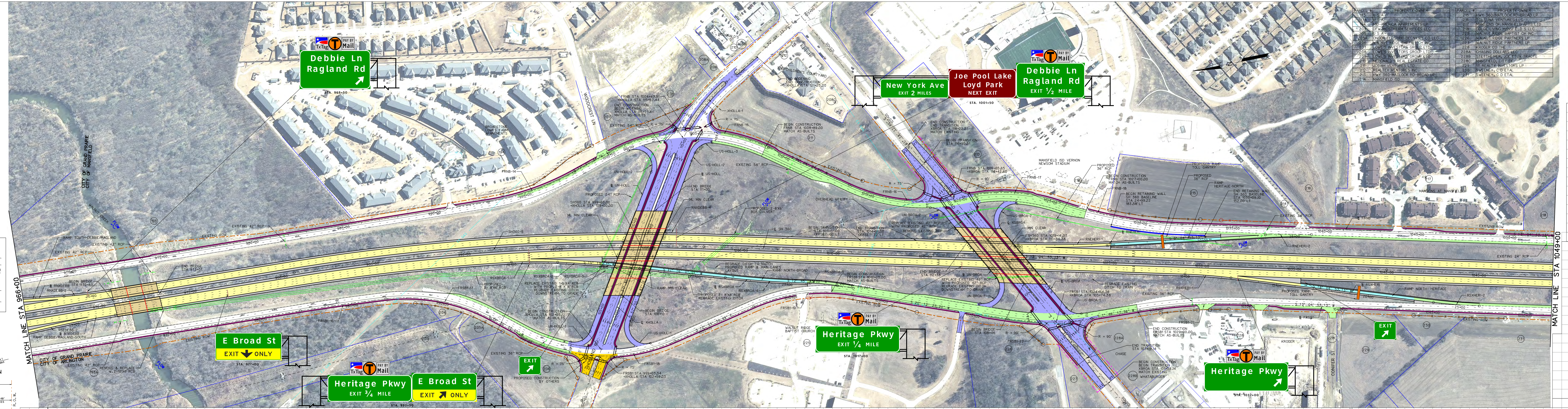


CURVE DATA

CHAIN NAME	CURVE NO.	DELTA	DEGREE	TANGENT	LENGTH	RADIUS	BACK BEARING	AHEAD BEARING	PI STATION	PC STATION	PT STATION	PI NORTHING	PI EASTING
MAINLANE													
SH360	SH360-5	11° 07' 27.84" RT	0° 30' 00.00"	1,115.95'	2,224.88'	11,459.16'	S 1° 57' 25.28" W	S 13° 04' 53.13" W	991+89.15	980+73.20	1002+98.08	6,899,473.47	2,406,686.10
FRONTAGE ROADS													
SH 360 NORTHBOUND FRONTAGE RD	FRNB-14	19° 45' 00.01" LT	4° 00' 00.00"	249.35'	493.75'	1,432.39'	S 1° 57' 25.28" W	S 17° 47' 34.74" E	995+45.90	992+96.55	997+90.30	6,899,235.52	2,406,888.09
	FRNB-15	53° 53' 59.64" RT	6° 00' 00.00"	485.51'	898.33'	954.93'	S 17° 47' 34.75" E	S 36° 06' 24.89" W	1004+92.52	1000+07.01	1009+05.34	6,898,329.47	2,407,178.87
	FRNB-16	37° 59' 59.98" LT	6° 00' 00.00"	328.81'	633.33'	954.93'	S 36° 06' 24.92" W	S 1° 53' 35.06" E	1017+15.68	1013+86.87	1020+20.20	6,897,282.53	2,406,415.23
	FRNB-17	31° 49' 38.35" RT	6° 00' 00.00"	272.27'	530.46'	954.93'	S 1° 53' 35.07" E	S 29° 56' 03.28" W	1022+92.47	1020+20.20	1025+50.66	6,896,681.78	2,406,435.09
	FRNB-18	16° 51' 10.14" LT	2° 30' 00.00"	339.51'	674.11'	2,291.83'	S 29° 56' 03.28" W	S 13° 04' 53.14" W	1028+90.17	1025+50.66	1032+24.77	6,896,151.62	2,406,129.81
SH 360 SOUTHBOUND FRONTAGE RD	FRSB1-16	2° 22' 39.53" RT	0° 30' 33.60"	233.44'	466.82'	11,249.16'	S 1° 57' 25.28" W	S 4° 20' 04.82" W	984+55.59	982+22.15	986+88.96	6,900,362.64	2,406,506.36
	FRSB1-17	35° 10' 17.39" RT	6° 00' 00.00"	302.66'	586.19'	954.93'	S 4° 20' 04.82" W	S 39° 30' 22.20" W	989+91.62	986+88.96	992+75.15	6,899,828.07	2,406,465.84
	FRSB1-18	52° 03' 56.69" LT	6° 00' 00.00"	466.43'	867.76'	954.93'	S 39° 30' 22.20" W	S 12° 33' 34.49" E	999+25.36	994+58.93	1003+26.69	6,899,092.88	2,405,859.67
	FRSB1-19	32° 45' 57.68" RT	6° 00' 00.00"	280.74'	546.10'	954.93'	S 12° 33' 34.49" E	S 20° 12' 23.20" W	1010+72.83	1007+92.09	1013+38.19	6,897,909.33	2,406,123.34
	FRSB1-20	18° 26' 05.84" LT	4° 00' 00.00"	232.45'	460.87'	1,432.39'	S 20° 12' 23.20" W	S 1° 46' 17.36" W	1024+19.52	1021+87.07	1026+47.95	6,896,631.08	2,405,652.88
	FRSB1-21	11° 18' 35.77" RT	2° 00' 00.00"	283.67'	565.50'	2,864.79'	S 1° 46' 17.36" W	S 13° 04' 53.13" W	1031+96.04	1029+12.37	1034+77.87	6,895,850.91	2,405,628.75
RAMPS													
DEBBIE/ RAGLAND-SOUTH	RSEDEBB-1	5° 00' 00.00" LT	2° 00' 00.00"	125.08'	250.00'	2,864.79'	S 1° 57' 25.28" W	S 3° 02' 34.72" E	12+62.76	11+37.68	13+87.68	6,903,048.96	2,406,630.17
	RSEDEBB-2	5° 00' 00.00" RT	1° 00' 00.00"	250.16'	500.00'	5,729.58'	S 3° 02' 34.72" E	S 1° 57' 25.28" W	24+78.82	22+28.66	27+28.66	6,901,834.46	2,406,694.73
HERITAGE-NORTH	RNEHERI-1	5° 00' 00.00" LT	1° 00' 00.00"	250.16'	500.00'	5,729.58'	S 13° 04' 53.13" W	S 8° 04' 53.13" W	12+50.16	10+00.00	15+00.00	6,896,469.32	2,406,061.96
	RNEHERI-2	5° 00' 00.00" RT	2° 00' 00.00"	125.08'	250.00'	2,864.79'	S 8° 04' 53.13" W	S 13° 04' 53.13" W	24+66.05	23+40.98	25+90.98	6,895,265.19	2,405,890.98
NORTH-BROAD	RSXBROA-1	6° 16' 21.63" RT	2° 30' 00.00"	125.58'	250.91'	2,291.83'	S 7° 51' 08.17" W	S 14° 07' 29.80" W	11+25.58	10+00.00	12+50.91	6,899,299.99	2,406,534.97
	RSXBROA-2	1° 12' 05.63" RT	0° 30' 00.00"	120.16'	240.31'	11,459.16'	S 14° 07' 29.80" W	S 15° 19' 35.42" W	13+71.07	12+50.91	14+91.22	6,899,061.68	2,406,475.00
	RSXBROA-3	1° 56' 25.59" RT	1° 00' 00.00"	97.03'	194.04'	5,729.58'	S 15° 19' 35.42" W	S 17° 16' 01.01" W	15+98.97	15+01.94	16+95.98	6,898,841.88	2,406,414.76
	RSXBROA-4	4° 30' 17.99" LT	1° 00' 00.00"	225.37'	450.50'	5,729.58'	S 17° 16' 01.01" W	S 12° 45' 43.02" W	23+88.19	21+62.82	26+13.32	6,898,088.21	2,406,180.49
	RSXBROA-5	7° 26' 40.18" RT	5° 00' 00.00"	74.55'	148.89'	1,145.92'	S 12° 45' 43.02" W	S 20° 12' 23.20" W	26+97.87	26+23.32	27+72.21	6,897,785.95	2,406,112.03
SOUTH-DEBBIE/ RAGLAND	RNXDEBB-1	5° 00' 00.00" RT	2° 00' 00.00"	125.08'	250.00'	2,864.79'	S 1° 57' 25.28" W	S 6° 57' 25.28" W	11+25.08	10+00.00	12+50.00	6,903,057.49	2,406,986.67
	RNXDEBB-2	5° 00' 00.00" LT	2° 00' 00.00"	125.08'	250.00'	2,864.79'	S 6° 57' 25.28" W	S 1° 57' 25.28" W	24+78.81	23+53.73	26+03.73	6,901,713.57	2,406,822.68
NORTH-HERITAGE	RSXHERI-1	5° 00' 00.00" RT	2° 00' 00.00"	125.08'	250.00'	2,864.79'	S 13° 04' 53.13" W	S 18° 04' 53.13" W	11+25.08	10+00.00	12+50.00	6,895,735.17	2,405,755.85
	RSXHERI-2	4° 59' 11.00" LT	2° 00' 00.00"	124.74'	249.32'	2,864.79'	S 18° 04' 53.13" W	S 13° 05' 42.12" W	24+79.87	23+55.13	26+04.45	6,894,447.14	2,405,335.32
CROSS STREETS													
HOLLAND	XHOLLA-1	27° 45' 51.87" RT	5° 43' 46.48"	247.15'	484.58'	1,000.00'	S 57° 55' 06.87" E	S 30° 09' 15.00" E	116+73.17	114+26.02	119+10.61	6,898,306.22	2,407,160.28
TURNAROUND													
HOLLAND RD	UN-HOLL-1	80° 38' 36.75" LT	62° 16' 40.88"	78.08'	129.49'	92.00'	S 22° 43' 29.88" W	S 57° 55' 06.87" E	103+14.93	102+36.84	103+66.33	6,899,119.74	2,406,035.71
	UN-HOLL-2	133° 36' 19.90" LT	62° 16' 40.88"	214.68'	214.53'	92.00'	S 57° 55' 06.87" E	N 11° 31' 26.77" W	115+04.83	112+90.15	115+04.68	6,898,473.58	2,407,066.51
	US-HOLL-1	126° 49' 37.58" RT	62° 16' 40.88"	183.83'	203.65'	92.00'	N 4° 44' 44.45" W	S 57° 55' 06.87" E	104+77.22	102+93.39	104+97.04	6,898,952.27	2,405,960.19
	US-HOLL-2	2° 58' 13.27" RT	6° 17' 46.46"	23.59'	47.18'	910.00'	S 57° 55' 06.87" E	S 54° 56' 53.60" E	114+49.62	114+26.02	114+73.20	6,898,348.70	2,406,923.06
	US-HOLL-3	72° 18' 14.61" RT	62° 16' 40.88"	67.22'	116.10'	92.00'	S 54° 56' 53.60" E	S 17° 21' 21.01" W	115+40.42	114+73.20	115+89.30	6,898,296.55	2,406,997.40
BROAD ST	UN-BROA-1	139° 00' 05.63" LT	62° 16' 40.88"	246.08'	223.20'	92.00'	S 20° 12' 21.39" W	N 61° 12' 15.75" E	109+98.42	107+52.35	109+75.54	6,896,745.31	2,405,756.73
	UN-BROA-2	52° 15' 52.25" LT	62° 16' 40.88"	45.13'	83.92'	92.00'	N 61° 18' 17.40" E	N 9° 02' 25.15" E	114+59.41	114+14.28	114+98.20	6,897,096.26	2,406,396.77
	US-BROA-1	57° 21' 26.78" RT	62° 16' 40.88"	50.32'	92.10'	92.00'	N 3° 50' 48.97" E	N 61° 12' 15.75" E	105+56.74	105+06.42	105+98.52	6,896,498.50	2,405,685.54
	US-BROA-2	134° 38' 39.67" RT	62° 16' 40.88"	220.17'	216.20'	92.00'	N 61° 18' 17.40" E	S 15° 56' 57.07" W	113+56.99	111+36.82	113+53.02	6,896,887.59	2,406,394.59

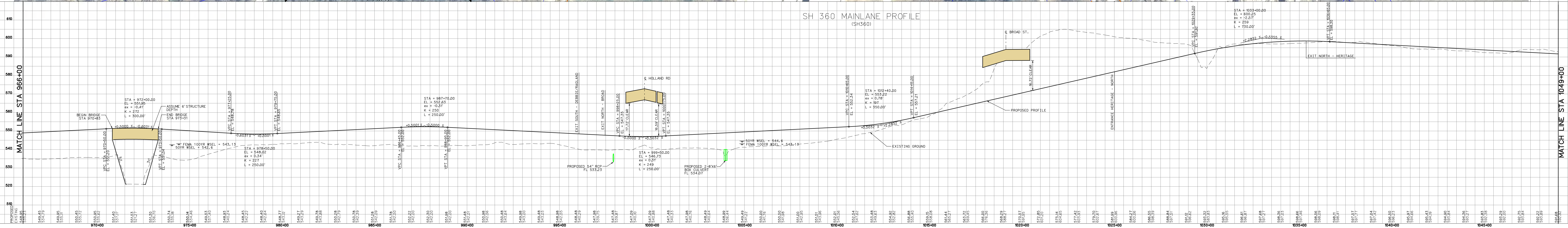


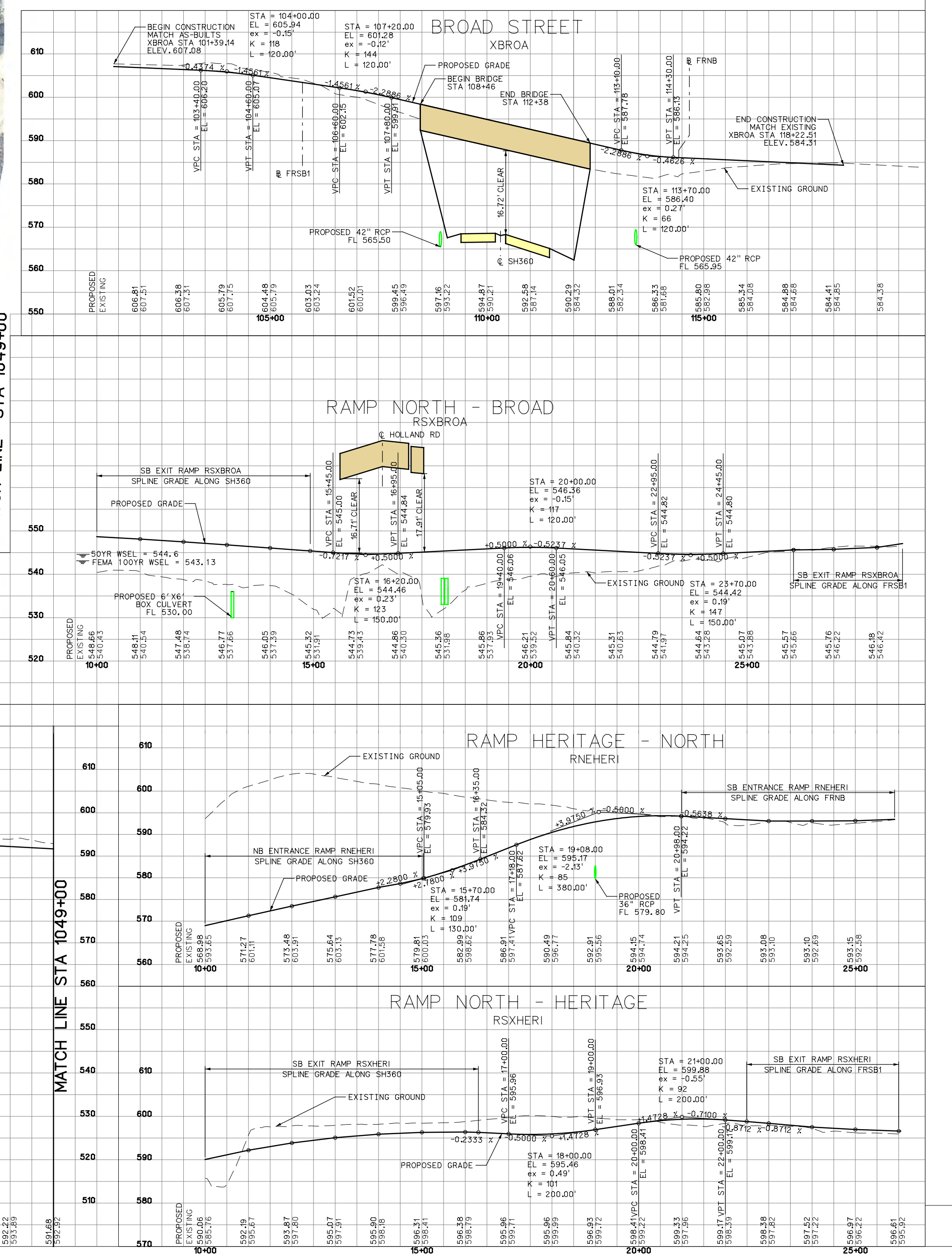




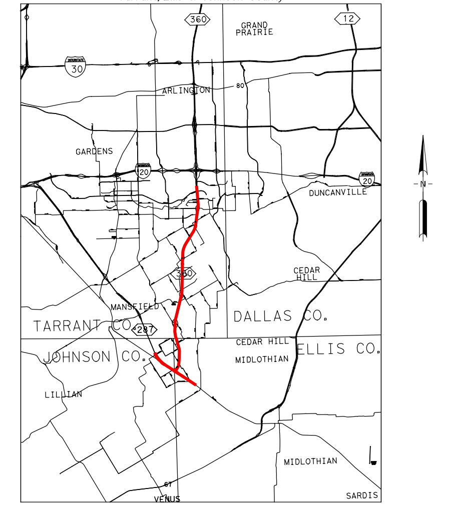
PARCEL #	PROPERTY OWNER
193	U S A
193A	U S A
194	MID-AMERICA APARTMENTS LP
204	DFW MIDSTREAM SERVICES LLC
205	U S A
205A	ONCOR ELECTRIC DELIVERY CO LLC
206	WALNUT RIDGE BAPTIST CH INC
207	LOWE'S INVESTORS GROUP LTD
208	LOWE'S INVESTORS GROUP LTD
209	LOWE'S INVESTORS GROUP LTD
210	MCDONALD'S REAL ESTATE CO
211	JOSIAH VENTURES LTD
212	REALTEX VENTURES INC
213	HWY 360-MATLOCK RD-BROAD LP
214	MANSFIELD ISD

PARCEL #	PROPERTY OWNER
215	HWY 360-MATLOCK RD-BROAD LP
216	TCI LUNA VENTURES LLC
217	MANSIONS OF MANSFIELD APTS LTD
218	DCJC LIVING MANSFIELD S LLC
225	WALNUT RIDGE BAPTIST CH INC
226	WALNUT RIDGE PARTNERS LP
227	WALNUT RIDGE PARTNERS LP
228	KROGER CO THE
228A	CHASING DOLLARS LLC
228B	STETTHEIMER, JOE ETUX TRACYE
228C	MANSFIELD, CITY OF
229	111 REALTY INVESTORS LP
230	SWEENEY, C D ETAL
231	SWEENEY, C D ETAL





Texas Department of Transportation
Fort Worth District
Brian R. Barth, P.E. District Engineer
NTTA
NORTH TEXAS TOLLWAY AUTHORITY
© 2013 by North Texas Tollway Authority; all rights reserved
Gerry Carrigan, Executive Director
STATE HIGHWAY 360
From Green Oaks Boulevard to US 287
Design Schematic
Project Length = 9.20 Miles
CSJ # 2266-02-136
CONTRACT # 02282-SH-360 PS-PD
DESIGN SPEEDS
100% SUBMITTAL
NOVEMBER 13, 2013
PRELIMINARY
SUBJECT TO CHANGE BASED ON FURTHER DEVELOPMENTS RESULTING FROM PUBLIC INPUT AND TECHNICAL REVIEW
ROLL 4 OF 12



Texas Department of Transportation®

Fort Worth District

Brian R. Barth, P.E. District Engineer

NTTA

NORTH TEXAS TOLLWAY AUTHORITY

© 2013 by North Texas Tollway Authority; all rights reserved

Gerry Carrigan, Executive Director

STATE HIGHWAY 360

From Green Oaks Boulevard to US 287

Design Schematic

Project Length = 9.20 Miles

CSJ # 2266-02-136

CONTRACT # 02282-SH-360 PS-PD

DESIGN SPEEDS

DESIGN SPEEDS AND FUNCTIONAL CLASSIFICATIONS:

MAINLANES (URBAN FREEWAY)	- 70 MPH
RAMPS (URBAN FREEWAY)	- 50 MPH
DIRECT CONNECTOR (URBAN FREEWAY)	- 40 MPH
FRONTAGE ROADS (URBAN COLLECTOR)	- 40 MPH
CROSS STREETS	
SUBLETT RD / CAMP WISDOM RD (URBAN MAJOR ARTERIAL)	- 35 MPH
WEBB LYNN RD / LYNN CREEK PKWY (URBAN MINOR COLLECTOR)	- 35 MPH
NEW YORK AVE (URBAN MAJOR COLLECTOR)	- 40 MPH
EDEN RD (URBAN MINOR ARTERIAL)	- 40 MPH
DEBBIE LN / RAGLAND RD (URBAN MAJOR ARTERIAL)	- 35 MPH
HOLLAND RD (URBAN PRINCIPAL ARTERIAL)	- 30 MPH
BROAD ST (URBAN PRINCIPAL ARTERIAL)	- 40 MPH
HERITAGE PKWY (URBAN PRINCIPAL ARTERIAL)	- 40 MPH
LONE STAR RD (URBAN PRINCIPAL ARTERIAL)	- 40 MPH
MATLOCK RD AT SH 360 (URBAN MAJOR ARTERIAL)	- 40 MPH
MATLOCK RD AT US 287 (RURAL MAJOR ARTERIAL)	- 30 MPH
ELLIS DR/ST (RURAL MAJOR COLLECTOR)	- 30 MPH
ST. PAUL RD (RURAL MINOR COLLECTOR)	- 30 MPH
UTURNS (URBAN COLLECTOR)	- 20 MPH

Tarrant, Ellis & Johnson County

100% SUBMITTAL

NOVEMBER 13, 2013

ROLL INDEX

ROLL 1: SH 360 MAINLANES STA 736+90 TO STA 794+00 RAMPS AND MAJOR CROSS STREETS

ROLL 2: SH 360 MAINLANES STA 794+00 TO STA 878+00 RAMPS AND MAJOR CROSS STREETS

ROLL 3: SH 360 MAINLANES STA 878+00 TO STA 966+00 RAMPS AND MAJOR CROSS STREETS

ROLL 4: SH 360 MAINLANES STA 966+00 TO STA 1049+00 RAMPS AND MAJOR CROSS STREETS

ROLL 5: SH 360 MAINLANES STA 1049+00 TO STA 1110+00 RAMPS AND MAJOR CROSS STREETS

ROLL 6: SH 360 MAINLANES STA 1110+00 TO STA 1209+00 RAMPS AND MAJOR CROSS STREETS

ROLL 7: SH 360 MAINLANES STA 1209+00 TO STA 1243+00 RAMPS, US 287 MAINLANES AND FRONTAGE ROADS STA 193+40 TO 343+00

ROLL 8: US 287 MAINLANES AND FRONTAGES ROAD PROFILES (US287E,US287W,FREB,FRWB)

ROLL 9: SH 360 NORTHBOUND FRONTAGE ROAD PROFILES (FRNB)

ROLL 10: SH 360 NORTHBOUND AND SOUTHBOUND FRONTAGE ROAD PROFILES (FRNB & FRSB)

ROLL 11: SH 360 SOUTHBOUND FRONTAGE ROAD PROFILE (FRSB), UTURN PROFILES AND MAINLANES PROFILE STA 1209+00 TO END

ROLL 12: DIRECT CONNECTOR PROFILES

PRELIMINARY
SUBJECT TO CHANGE BASED ON FURTHER DEVELOPMENTS RESULTING FROM PUBLIC INPUT AND TECHNICAL REVIEW

DATE APPROVED | DATE SUBMITTED

SCHEMATIC PREPARED BY:

HDR ENGINEERING, INC.
REGISTRATION NUMBER F-754

FOR INTERIM REVIEW ONLY. NOT FOR PERMITTING, BIDDING OR CONSTRUCTION.

Prepared by or under the Direct Supervision of:

NAME	P.E. NUMBER
BRIAN ANDREW SWINDELL	80688
M. SHANE WALTERS	100195

NOVEMBER 13, 2013
DATE

SCALE 0 50 100 150 200 300

ROLL 5 OF 12

HDR Engineering, Inc.
17111 Preston Road, Suite 200
Dallas, Texas 75248-1229

LEGEND

- ALIGNMENT
- PROPOSED R.O.W.
- EXISTING R.O.W.
- PROPOSED ACCESS DENIED
- EXISTING ACCESS DENIED
- BENTS/ABUTMENTS
- PROPOSED RETAINING WALL
- PROPOSED NOISE WALL
- CITY LIMITS
- PROPOSED TOLL GANTRY
- DIRECTION OF TRAFFIC, ONE LANE
- PARCEL NUMBER
- PARCEL BOUNDARY
- PAVEMENT TO BE REMOVED
- PROPOSED MAINLANES
- PROPOSED RAMPS, DIRECT CONNECTORS, COLLECTOR DISTRIBUTORS
- PROPOSED FRONTAGE ROADS
- PROPOSED CROSS STREETS / U-TURNS
- PROPOSED CONCRETE STRUCTURES
- PROPOSED STEEL STRUCTURES
- PROPOSED SHOULDERS, GORES
- PROPOSED SIDEWALKS
- PROPOSED CONSTRUCTION BY OTHERS

GENERAL NOTES:

1. EXISTING PAVEMENT WITHIN LIMITS OF PROPOSED RECONSTRUCTION IS ASSUMED TO BE REMOVED.
2. EXISTING RIGHT OF WAY HAS NOT BEEN FIELD SURVEYED. SCHEMATIC LAYOUTS ARE BASED ON AERIAL SURVEY, SUPPLEMENTAL FIELD SURVEYS AND RECORD PLANS ONLY
3. PARCEL OWNERSHIP WAS OBTAINED FROM TARRANT APPRAISAL DISTRICT, 2013 AND ELLIS COUNTY APPRAISAL DISTRICT, 2013, JOHNSON COUNTY APPRAISAL DISTRICT, 2013.
4. APPROXIMATE 100 YEAR FLOODPLAIN LIMITS ARE BASED UPON FEMA FLOOD INSURANCE RATE MAPS NUMBER 48439C0365K,48439C0480K,48439C0490K,48113C0590J.
5. ASSUME SIX FOOT STRUCTURE DEPTH USED FOR CLEARANCE CALCULATIONS UNLESS NOTED OTHERWISE

Texas Department of Transportation®
Fort Worth District
NTTA
STATE HIGHWAY 360
DESIGN SPEEDS
ROLL INDEX
100% SUBMITTAL
NOVEMBER 13, 2013
PRELIMINARY
SUBJECT TO CHANGE BASED ON FURTHER DEVELOPMENTS RESULTING FROM PUBLIC INPUT AND TECHNICAL REVIEW
ROLL 5 OF 12

Texas Department of Transportation®
Fort Worth District
Brian R. Barth, P.E. District Engineer

NTTA
NORTH TEXAS TOLLWAY AUTHORITY
© 2013 by North Texas Tollway Authority; all rights reserved
Gerry Carrigan, Executive Director

STATE HIGHWAY 360

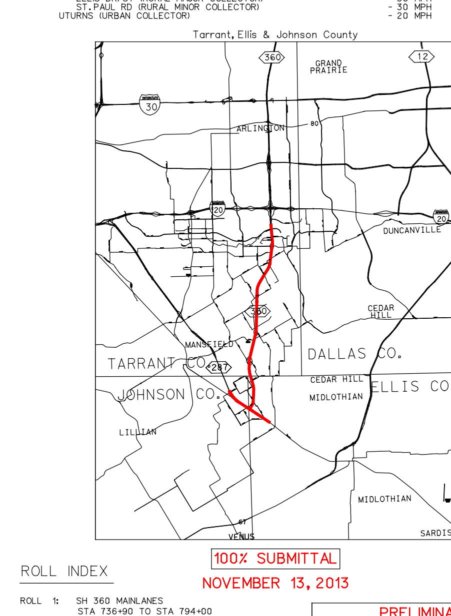
From Green Oaks Boulevard to US 287
Design Schematic
Project Length = 9.20 Miles
CSJ # 2266-02-136
CONTRACT # 02282-SH-360 PS-PD

DESIGN SPEEDS

DESIGN SPEEDS AND FUNCTIONAL CLASSIFICATIONS:

MAINLANES (URBAN FREEWAY)	- 70 MPH
RAMPS (URBAN FREEWAY)	- 50 MPH
DIRECT CONNECTOR (URBAN FREEWAY)	- 40 MPH
FRONTAGE ROADS (URBAN COLLECTOR)	- 40 MPH
CROSS STREETS	
SUBLETT RD / CAMP WISDOM RD (URBAN MAJOR ARTERIAL)	- 35 MPH
WEBB LYNN RD / LYNN CREEK PKWY (URBAN MINOR COLLECTOR)	- 35 MPH
NEW YORK AVE (URBAN MAJOR COLLECTOR)	- 35 MPH
EDEN RD (URBAN MINOR ARTERIAL)	- 40 MPH
DEBBIE LN / RAGLAND RD (URBAN MAJOR ARTERIAL)	- 35 MPH
HOLLAND RD (URBAN PRINCIPAL ARTERIAL)	- 30 MPH
BROAD ST (URBAN PRINCIPAL ARTERIAL)	- 30 MPH
HERITAGE PKWY (URBAN PRINCIPAL ARTERIAL)	- 40 MPH
LONE STAR RD (URBAN PRINCIPAL ARTERIAL)	- 40 MPH
MATLOCK RD AT SH 360 (URBAN MAJOR ARTERIAL)	- 40 MPH
MATLOCK RD AT US 287 (RURAL MAJOR ARTERIAL)	- 30 MPH
ELLIS DR/ST (RURAL MAJOR COLLECTOR)	- 30 MPH
ST. PAUL RD (RURAL MINOR COLLECTOR)	- 30 MPH
UTURNS (URBAN COLLECTOR)	- 20 MPH

Tarrant, Ellis & Johnson County



100% SUBMITTAL
NOVEMBER 13, 2013

ROLL INDEX

- ROLL 1: SH 360 MAINLANES STA 736+90 TO STA 794+00 RAMPS AND MAJOR CROSS STREETS
- ROLL 2: SH 360 MAINLANES STA 794+00 TO STA 878+00 RAMPS AND MAJOR CROSS STREETS
- ROLL 3: SH 360 MAINLANES STA 878+00 TO STA 966+00 RAMPS AND MAJOR CROSS STREETS
- ROLL 4: SH 360 MAINLANES STA 966+00 TO STA 1049+00 RAMPS AND MAJOR CROSS STREETS
- ROLL 5: SH 360 MAINLANES STA 1049+00 TO STA 1110+00 RAMPS AND MAJOR CROSS STREETS
- ROLL 6: SH 360 MAINLANES STA 1110+00 TO STA 1209+00 RAMPS AND MAJOR CROSS STREETS
- ROLL 7: SH 360 MAINLANES STA 1209+00 TO STA 1243+00 RAMPS, US 287 MAINLANES AND FRONTAGE ROADS STA 193+40 TO 343+00
- ROLL 8: US 287 MAINLANES AND FRONTAGES ROAD PROFILES (US287E,US287W,FREB,FRWB)
- ROLL 9: SH 360 NORTHBOUND FRONTAGE ROAD PROFILES (FRNB)
- ROLL 10: SH 360 NORTHBOUND AND SOUTHBOUND FRONTAGE ROAD PROFILES (FRNB & FRSB)
- ROLL 11: SH 360 SOUTHBOUND FRONTAGE ROAD PROFILE (FRSB), UTURN PROFILES AND MAINLANES PROFILE STA 1209+00 TO END
- ROLL 12: DIRECT CONNECTOR PROFILES

PRELIMINARY
SUBJECT TO CHANGE BASED ON FURTHER DEVELOPMENTS RESULTING FROM PUBLIC INPUT AND TECHNICAL REVIEW

DATE APPROVED | DATE SUBMITTED

SCHEMATIC PREPARED BY:
HDR ENGINEERING, INC.
REGISTRATION NUMBER F-754
FOR INTERIM REVIEW ONLY, NOT FOR PERMITTING, BIDDING OR CONSTRUCTION.
Prepared by or under the Direct Supervision of:

NAME	P.E. NUMBER
BRIAN ANDREW SWINDELL	80688
M. SHANE WALTERS	100195

NOVEMBER 13, 2013
DATE

SCALE
0 50 100 150 200 300

ROLL 6 OF 12

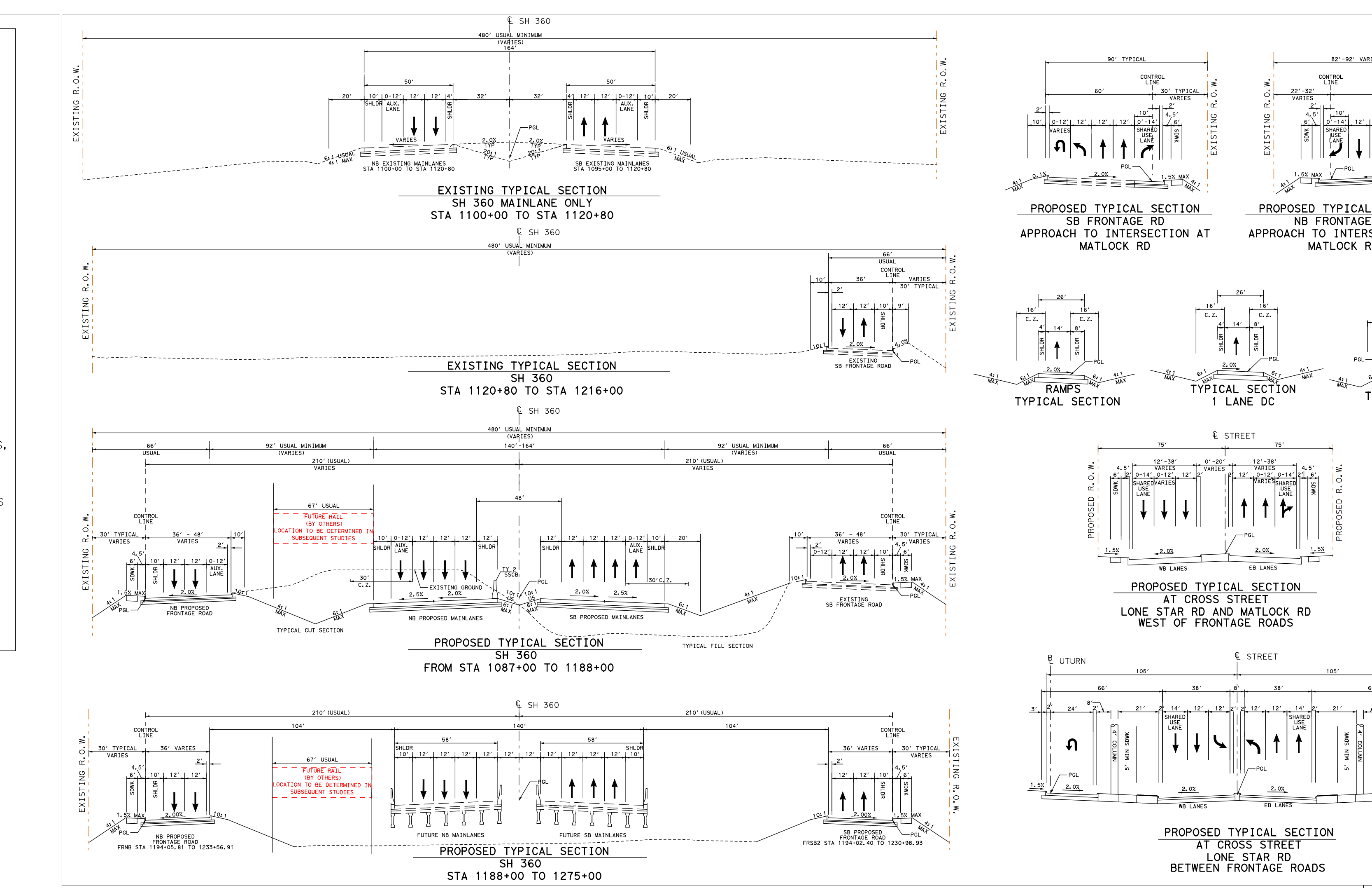
HDR Engineering, Inc.
17111 Preston Road, Suite 200
Dallas, Texas 75248-1229

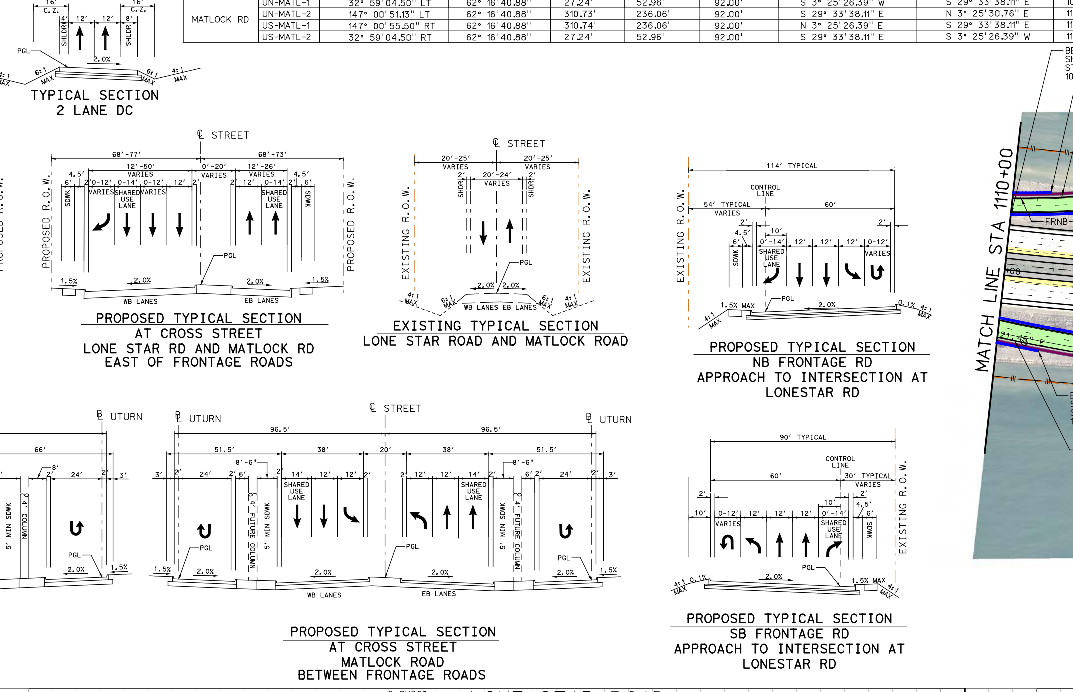
LEGEND

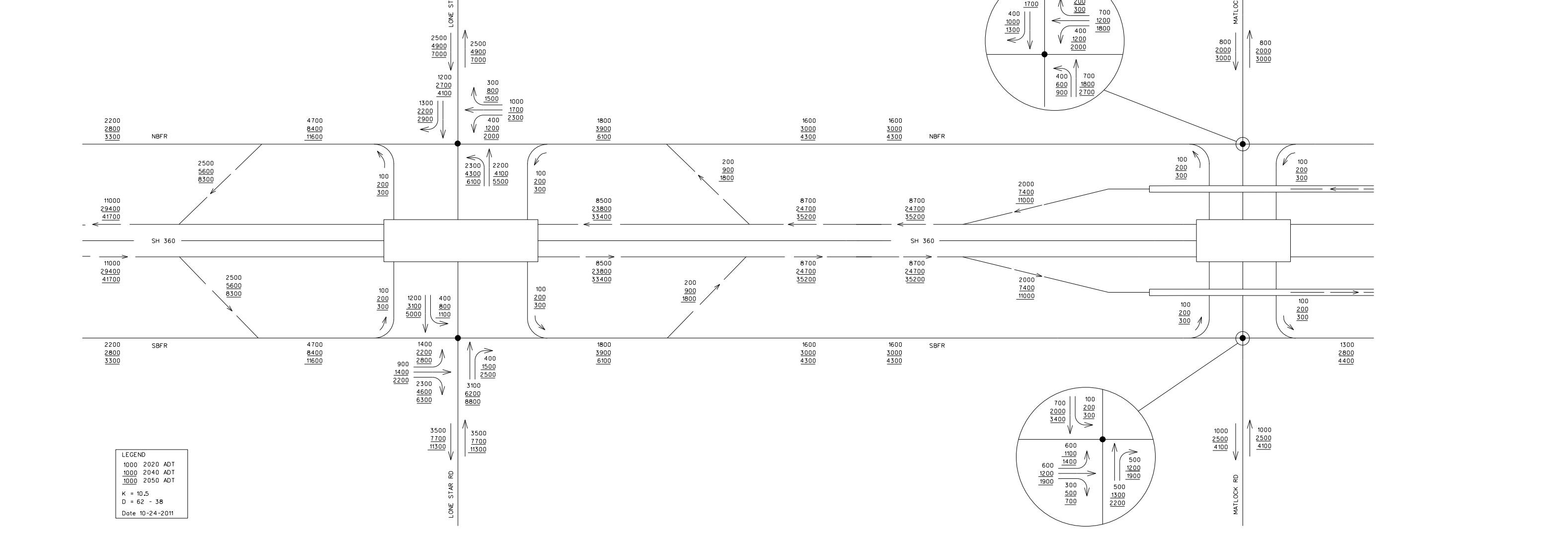
- ALIGNMENT
- PROPOSED R.O.W.
- EXISTING R.O.W.
- PROPOSED ACCESS DENIED
- EXISTING ACCESS DENIED
- BENTS/ABUTMENTS
- PROPOSED RETAINING WALL
- PROPOSED NOISE WALL
- CITY LIMITS
- PROPOSED TOLL GANTRY
- DIRECTION OF TRAFFIC, ONE LANE
- PARCEL NUMBER
- PARCEL BOUNDARY
- PAVEMENT TO BE REMOVED
- PROPOSED MAINLANES
- PROPOSED RAMPS, DIRECT CONNECTORS, COLLECTOR DISTRIBUTORS
- PROPOSED FRONTAGE ROADS
- PROPOSED CROSS STREETS / U-TURNS
- PROPOSED CONCRETE STRUCTURES
- PROPOSED STEEL STRUCTURES
- PROPOSED SHOULDERS, GORES
- PROPOSED SIDEWALKS
- PROPOSED CONSTRUCTION BY OTHERS

GENERAL NOTES:

1. EXISTING PAVEMENT WITHIN LIMITS OF PROPOSED RECONSTRUCTION IS ASSUMED TO BE REMOVED.
2. EXISTING RIGHT OF WAY HAS NOT BEEN FIELD SURVEYED. SCHEMATIC LAYOUTS ARE BASED ON AERIAL SURVEY, SUPPLEMENTAL FIELD SURVEYS AND RECORD PLANS ONLY.
3. PARCEL OWNERSHIP WAS OBTAINED FROM TARRANT APPRAISAL DISTRICT, 2013 AND ELLIS COUNTY APPRAISAL DISTRICT, 2013, JOHNSON COUNTY APPRAISAL DISTRICT, 2013.
4. APPROXIMATE 100 YEAR FLOODPLAIN LIMITS ARE BASED UPON FEMA FLOOD INSURANCE RATE MAPS NUMBER 48439C0365K, 48439C0480K, 48439C0490K, 48113C0590J.
5. ASSUME SIX FOOT STRUCTURE DEPTH USED FOR CLEARANCE CALCULATIONS UNLESS NOTED OTHERWISE.







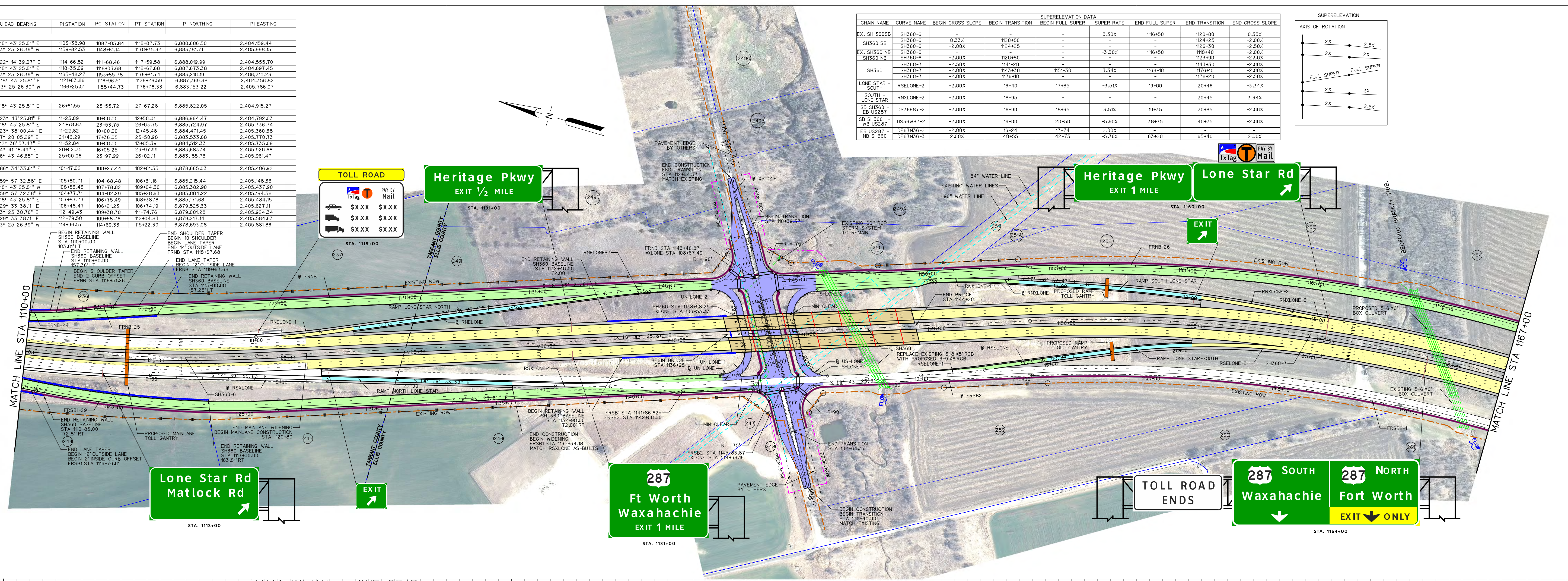
CURVE DATA

CHAIN NAME	CURVE NO.	DELTA	DEGREE	TANGENT	LENGTH	RADIUS	BACK BEARING	AHEAD BEARING	PI STATION	PC STATION	PT STATION	PI NORTHING	PI EASTING
MAINLANE													
SH360	SH360-6	31° 49' 07.93" LT	1° 00' 00.00"	1,633.13'	3,181.89'	5,729.58'	S 13° 05' 42.13" W	S 18° 43' 25.81" E	1103+38.98	1087+05.84	1118+87.73	6,888,606.50	2,404,159.44
	SH360-7	22° 08' 52.19" RT	1° 00' 00.00"	1,121.39'	2,214.78'	5,729.58'	S 18° 43' 25.81" E	S 3° 25' 26.39" W	1159+82.53	1148+61.14	1170+75.92	6,883,181.71	2,405,998.15
FRONTAGE ROADS													
SH 360 NORTHBOUND FRONTAGE RD	FRNB-24	19° 12' 40.82" LT	3° 15' 00.00"	298.36'	591.12'	1,762.95'	S 3° 01' 58.25" E	S 22° 14' 39.07" E	1114+66.82	1111+68.46	1117+59.58	6,888,019.99	2,404,555.70
	FRNB-25	3° 31' 13.26" RT	5° 30' 00.00"	32.01'	64.01'	1,041.74'	S 22° 14' 39.07" E	S 18° 43' 25.81" E	1118+35.69	1118+03.68	1118+67.68	6,887,673.38	2,404,697.45
	FRNB-26	22° 08' 52.19" RT	0° 57' 52.72"	1,162.49'	2,295.96'	5,939.58'	S 18° 43' 25.81" E	S 3° 25' 26.39" W	1165+48.27	1153+85.78	1176+81.74	6,883,210.19	2,406,210.23
SH 360 SOUTHBOUND FRONTAGE RD	FRSB1-29	13° 57' 04.36" LT	1° 30' 00.00"	467.35'	930.08'	3,819.72'	S 4° 46' 21.45" E	S 18° 43' 25.81" E	1121+63.86	1116+96.51	1126+26.59	6,887,369.98	2,404,356.82
	FRSB2-1	22° 08' 52.19" RT	1° 02' 16.97"	1,080.29'	2,133.61'	5,519.58'	S 18° 43' 25.81" E	S 3° 25' 26.39" W	1166+25.01	1155+44.73	1176+78.33	6,883,153.22	2,405,786.07
RAMPS/DC													
NORTH-LONE STAR	RSXLONE-1	4° 13' 52.22" LT	2° 00' 00.00"	105.83'	211.56'	2,864.79'	S 14° 29' 33.58" E	S 18° 43' 25.81" E	26+61.55	25+55.72	27+67.28	6,885,822.05	2,404,915.27
LONE STAR-NORTH	RNELONE-1	5° 00' 01.02" LT	2° 00' 00.00"	125.09'	250.01'	2,864.79'	S 18° 43' 24.79" E	S 23° 43' 25.81" E	11+25.09	10+00.00	12+50.01	6,886,964.47	2,404,792.03
	RNELONE-2	5° 00' 00.00" RT	2° 00' 00.00"	125.08'	250.00'	2,864.79'	S 23° 43' 25.81" E	S 18° 43' 25.81" E	24+78.83	23+53.75	26+03.75	6,885,724.97	2,405,336.74
LONE STAR-SOUTH	RSELONE-1	4° 54' 34.63" LT	2° 00' 00.00"	122.82'	245.48'	2,864.79'	S 18° 43' 25.81" E	S 23° 38' 00.44" E	11+22.82	10+00.00	12+45.48	6,884,471.45	2,405,360.38
	RSELONE-2	16° 17' 55.15" RT	2° 00' 00.00"	410.24'	814.93'	2,864.79'	S 23° 38' 00.44" E	S 7° 20' 05.29" E	21+46.29	17+36.05	25+50.98	6,883,533.68	2,405,770.73
SOUTH-LONE STAR	RNXLONE-1	6° 06' 28.34" RT	2° 00' 00.00"	152.84'	305.39'	2,864.79'	S 18° 43' 25.81" E	S 12° 36' 57.47" E	11+52.84	10+00.00	13+05.39	6,884,512.33	2,405,735.09
	RNXLONE-2	7° 55' 38.98" RT	1° 00' 00.00"	397.01'	792.75'	5,729.58'	S 12° 36' 57.47" E	S 4° 41' 18.49" E	20+02.25	16+05.25	23+97.99	6,883,683.14	2,405,920.68
	RNXLONE-3	2° 02' 28.17" LT	1° 00' 00.00"	102.07'	204.12'	5,729.58'	S 4° 41' 18.49" E	S 6° 43' 46.65" E	25+00.06	23+97.99	26+02.11	6,883,185.73	2,405,961.47
CROSS STREET													
ELLIS RD	XELLIS-1	33° 15' 08.22" RT	19° 05' 54.94"	89.58'	174.11'	300.00'	N 60° 10' 18.17" E	S 86° 34' 33.61" E	101+17.02	100+27.44	102+01.55	6,878,665.03	2,405,406.92
TURNAROUND													
LONE STAR RD	UN-LONE-1	101° 19' 01.62" LT	62° 16' 40.88"	112.24'	162.69'	92.00'	S 18° 43' 25.81" E	N 59° 57' 32.58" E	105+80.71	104+68.48	106+31.16	6,885,215.44	2,405,148.33
	UN-LONE-2	78° 40' 58.38" LT	62° 16' 40.88"	75.41'	126.34'	92.00'	N 59° 57' 32.58" E	N 18° 43' 25.81" W	108+53.43	107+78.02	109+04.36	6,885,382.90	2,405,437.90
	US-LONE-1	78° 40' 58.38" RT	62° 16' 40.88"	75.41'	126.34'	92.00'	N 18° 43' 25.81" W	N 59° 57' 32.58" E	104+77.71	104+02.29	105+28.63	6,885,004.22	2,405,194.58
	US-LONE-2	101° 19' 01.62" RT	62° 16' 40.88"	112.24'	162.69'	92.00'	N 59° 57' 32.58" E	S 18° 43' 25.81" E	107+87.73	106+75.49	108+38.18	6,885,171.68	2,405,484.15
MATLOCK RD	UN-MATL-1	32° 59' 04.50" LT	62° 16' 40.88"	27.24'	52.96'	92.00'	S 3° 25' 26.39" W	S 29° 33' 38.11" E	106+48.47	106+21.23	106+74.19	6,879,525.33	2,405,627.11
	UN-MATL-2	147° 00' 51.13" LT	62° 16' 40.88"	310.73'	236.06'	92.00'	S 29° 33' 38.11" E	N 3° 25' 30.76" E	112+49.43	109+38.70	111+74.76	6,879,001.28	2,405,924.34
	US-MATL-1	147° 00' 55.50" RT	62° 16' 40.88"	310.74'	236.06'	92.00'	N 3° 25' 26.39" E	S 29° 33' 38.11" E	112+79.50	109+68.76	112+04.83	6,879,217.14	2,405,584.63
	US-MATL-2	32° 59' 04.50" RT	62° 16' 40.88"	27.24'	52.96'	92.00'	S 29° 33' 38.11" E	S 3° 25' 26.39" W	114+96.57	114+69.33	115+22.30	6,878,693.08	2,405,881.86

SUPERELEVATION DATA

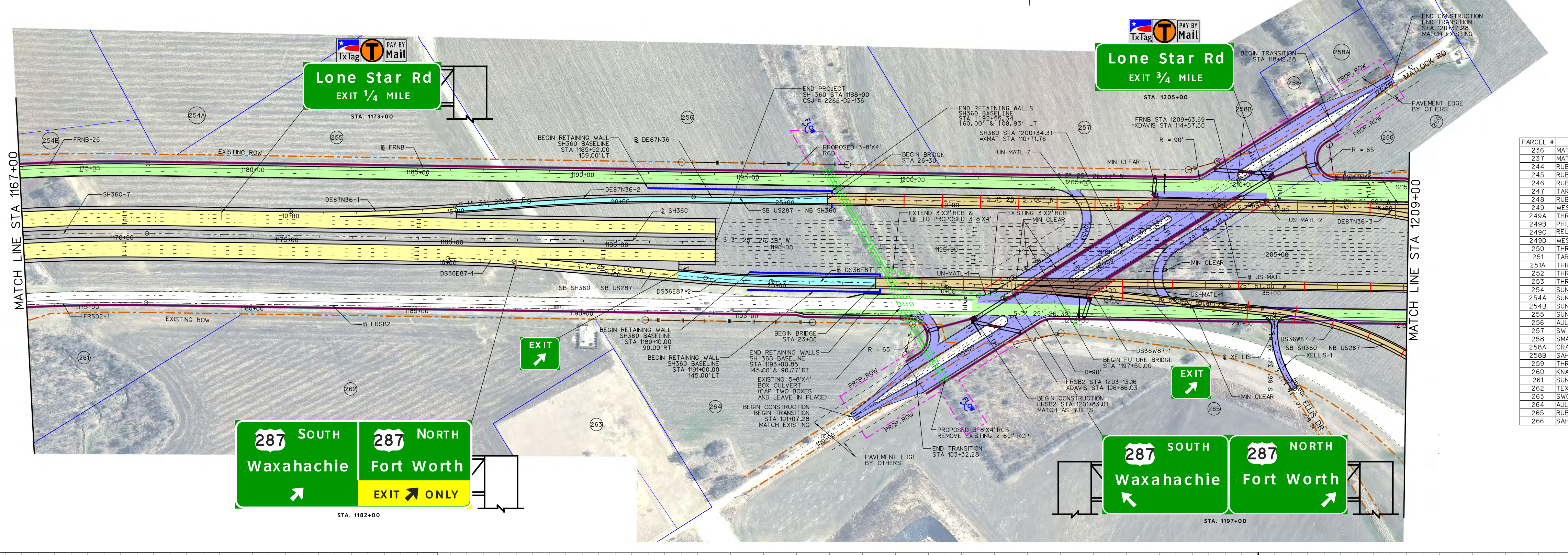
CHAIN NAME	CURVE NAME	BEGIN CROSS SLOPE	BEGIN TRANSITION	BEGIN FULL SUPER	SUPER RATE	END FULL SUPER	END TRANSITION	END CROSS SLOPE
EX. SH 360SB	SH360-6	-	-	-	3.30%	1116+50	1120+80	0.33%
SH360 SB	SH360-6	0.33%	1120+80	-	-	-	1124+25	-2.00%
	SH360-6	-2.00%	1124+25	-	-	-	1126+30	-2.50%
EX. SH360 NB	SH360-6	-	-	-	-3.30%	1116+50	1118+40	-2.00%
SH360 NB	SH360-6	-2.00%	1120+80	-	-	-	1123+90	-2.50%
SH360	SH360-7	-2.50%	1141+20	-	-	-	1143+30	-2.00%
	SH360-7	-2.00%	1143+30	1151+30	3.34%	1168+10	1176+10	-2.00%
	SH360-7	-2.00%	1176+10	-	-	-	1178+20	-2.50%
LONE STAR - SOUTH	RSELONE-2	-2.00%	16+40	17+85	-3.51%	19+00	20+46	-3.34%
SOUTH - LONE STAR	RNXLONE-2	-2.00%	18+95	-	-	-	20+45	3.34%
SB SH360 - EB US287	DS36E87-2	-2.00%	16+90	18+35	3.51%	19+35	20+85	-2.00%
SB SH360 - WB US287	DS36W87-2	-2.00%	19+00	20+50	-5.90%	38+75	40+25	-2.00%
EB US287 - NB SH360	DE87N36-2	-2.00%	16+24	17+74	2.00%	-	-	-
	DE87N36-3	2.00%	40+55	42+75	-5.76%	63+20	65+40	2.00%

SUPERELEVATION
AXIS OF ROTATION
2% 2.5% / 2% 2% / FULL SUPER FULL SUPER / 2% 2% / 2% 2.5%



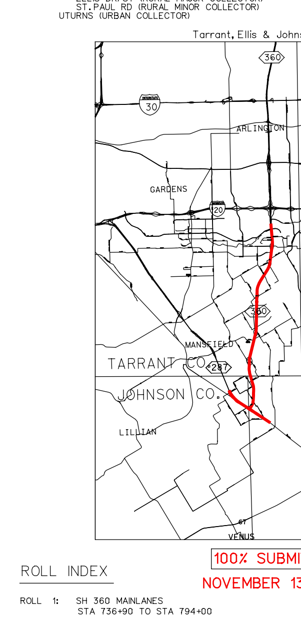
CURVE DATA

CHAIN NAME	CURVE NO.	DELTA	DEGREE	TANGENT	LENGTH	RADIUS	BACK BEARING	AHEAD BEARING	PI STATION	PC STATION	PT STATION	PI NORTHING	PI EASTING
RAMPS/DC													
SB SH360 - WB US287	DS36W87-1	5° 00' 00.00" RT	1° 00' 00.00"	250.16'	500.00'	5,729.58'	S 3° 25' 51.00" W	S 8° 25' 51.00" W	12+50.16	10+00.00	15+00.00	6,879,395.84	2,405,644.59
	DS36W87-2	110° 58' 41.33" RT	5° 45' 00.00"	1,449.25'	1,930.05'	996.45'	S 8° 25' 51.00" W	N 60° 35' 27.67" W	34+46.34	19+97.09	39+27.15	6,877,223.07	2,405,322.55
SB SH360 - EB US287	DS36E87-1	4° 00' 24.61" RT	1° 59' 34.95"	100.56'	201.04'	2,874.79'	S 3° 25' 26.39" W	S 7° 25' 51.00" W	11+00.56	10+00.00	12+01.04	6,881,053.59	2,405,808.71
	DS36E87-2	4° 00' 00.00" LT	2° 00' 25.22"	99.69'	199.30'	2,854.79'	S 7° 25' 51.00" W	S 3° 25' 51.00" W	18+83.56	17+83.87	19+83.17	6,880,277.09	2,405,707.44
EB US 287 - NB SH360	DE87N36-1	4° 59' 35.39" LT	1° 00' 00.00"	249.82'	499.32'	5,729.58'	S 3° 25' 26.39" W	S 1° 34' 09.00" E	12+49.82	10+00.00	14+99.32	6,881,374.61	2,405,962.16
	DE87N36-2	5° 00' 00.00" RT	1° 00' 00.00"	250.16'	500.00'	5,729.58'	S 1° 34' 09.00" E	S 3° 25' 51.00" W	19+73.49	17+23.33	22+23.33	6,880,650.89	2,405,981.98
	DE87N36-3	116° 10' 56.86" RT	5° 15' 00.00"	1,752.73'	2,213.00'	1,091.35'	S 3° 25' 51.00" W	N 60° 23' 12.14" W	59+55.45	42+02.73	64+15.73	6,876,675.75	2,405,743.67



PARCEL #	PROPERTY OWNER
236	MATHIS, BEATRICE ETAL
237	MATHIS, BEATRICE ETAL
244	RUBY 07 SPMTGE LLC
245	RUBY 07 SPMTGE LLC
246	RUBY 07 SPMTGE LLC
247	TARRANT CO WATER
248	RUBY 07 SPMTGE LLC
249	WESTERFELD BETTY ETAL
249A	THREE SIXTY REALTY INC
249B	PHILLIPS JUDITH A
249C	REUNION CONSTRUCTION MANAGEMENT
249D	WESTERFELD BETTY ETAL
250	THREE SIXTY REALTY INC
251	TARRANT CO WATER
251A	THREE SIXTY REALTY INC
252	THREE SIXTY REALTY INC
253	THREE SIXTY REALTY INC
254	SUNBELT LAND INVESTMENTS LTD
254A	SUNBELT LAND INVESTMENTS LTD
254B	SUNBELT LAND INVESTMENTS LTD
255	SUNBELT LAND INVESTMENTS LTD
256	AULD ROBERT M ETAL
257	SW LAKEVIEW DRIVE LP
258	SMART CLINTON
258A	CRAMER JUDSON
258B	SAHAT MEHRDAD & MAJID ETAL
259	THREE SIXTY REALTY INC
260	KNAPP SISTERS INV LTD
261	SUNBELT LAND INVESTMENTS LTD
262	TEXAS MIDSTREAM GAS SERVICES LLC
263	SWOFFORD ROGER D & LINDA D
264	AULD ROBERT M ETAL
265	RUBY 07 SPMTGE LLC
266	SAHAT MEHRDAD & MAJID ETAL

Texas Department of Transportation®
Fort Worth District
Brian R. Barth, P.E. District Engineer
NTTA
NORTH TEXAS TOLLWAY AUTHORITY
© 2013 by North Texas Tollway Authority; all rights reserved
Gerry Carrigan, Executive Director
STATE HIGHWAY 360
From Green Oaks Boulevard to US 287
Design Schematic
Project Length = 9.20 Miles
CSJ # 2266-02-136
CONTRACT # 02282-SH-360 PS-PD
DESIGN SPEEDS
100% SUBMITTAL
NOVEMBER 13, 2013
ROLL INDEX
PRELIMINARY
SUBJECT TO CHANGE BASED ON FURTHER DEVELOPMENTS RESULTING FROM PUBLIC INPUT AND TECHNICAL REVIEW
ROLL 6 OF 12



Texas Department of Transportation®
Fort Worth District
Brian R. Barth, P.E. District Engineer

NTTA
NORTH TEXAS TOLLWAY AUTHORITY
© 2013 by North Texas Tollway Authority; all rights reserved
Gerry Carrigan, Executive Director

STATE HIGHWAY 360

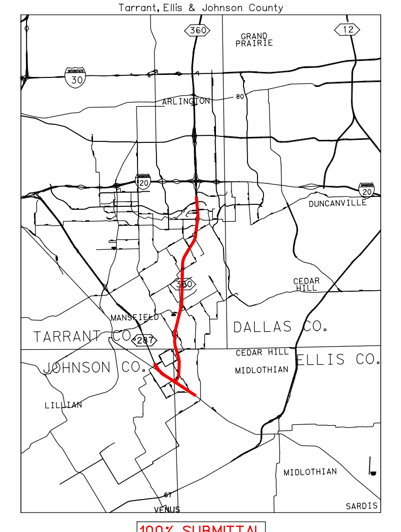
From Green Oaks Boulevard to US 287
Design Schematic
Project Length = 9.20 Miles
CSJ # 2266-02-136
CONTRACT # 02282-SH-360 PS-PD

DESIGN SPEEDS

DESIGN SPEEDS AND FUNCTIONAL CLASSIFICATIONS:

MAINLANES (URBAN FREEWAY)	- 70 MPH
RAMPS (URBAN FREEWAY)	- 50 MPH
DIRECT CONNECTOR (URBAN FREEWAY)	- 40 MPH
FRONTAGE ROADS (URBAN COLLECTOR)	- 40 MPH
CROSS STREETS	
SUBLETT RD / CAMP WISDOM RD (URBAN MAJOR ARTERIAL)	- 35 MPH
WEBB LYNN RD / LYNN CREEK PKWY (URBAN MINOR COLLECTOR)	- 35 MPH
NEW YORK AVE (URBAN MAJOR COLLECTOR)	- 40 MPH
EDEN RD (URBAN MINOR ARTERIAL)	- 40 MPH
DEBBIE LN / RAGLAND RD (URBAN MAJOR ARTERIAL)	- 35 MPH
HOLLAND RD (URBAN PRINCIPAL ARTERIAL)	- 30 MPH
BROAD ST (URBAN PRINCIPAL ARTERIAL)	- 40 MPH
HERITAGE PKWY (URBAN PRINCIPAL ARTERIAL)	- 40 MPH
LONE STAR RD (URBAN PRINCIPAL ARTERIAL)	- 40 MPH
MATLOCK RD AT SH 360 (URBAN MAJOR ARTERIAL)	- 40 MPH
MATLOCK RD AT US 287 (RURAL MAJOR ARTERIAL)	- 30 MPH
ELLIS DR/ST (RURAL MAJOR COLLECTOR)	- 30 MPH
ST. PAUL RD (RURAL MINOR COLLECTOR)	- 30 MPH
UTURNS (URBAN COLLECTOR)	- 20 MPH

Tarrant, Ellis & Johnson County



100% SUBMITTAL
NOVEMBER 13, 2013

ROLL INDEX

ROLL 1: SH 360 MAINLANES STA 736+90 TO STA 794+00 RAMPS AND MAJOR CROSS STREETS
ROLL 2: SH 360 MAINLANES STA 794+00 TO STA 878+00 RAMPS AND MAJOR CROSS STREETS
ROLL 3: SH 360 MAINLANES STA 878+00 TO STA 966+00 RAMPS AND MAJOR CROSS STREETS
ROLL 4: SH 360 MAINLANES STA 966+00 TO STA 1049+00 RAMPS AND MAJOR CROSS STREETS
ROLL 5: SH 360 MAINLANES STA 1049+00 TO STA 1110+00 RAMPS AND MAJOR CROSS STREETS
ROLL 6: SH 360 MAINLANES STA 1110+00 TO STA 1209+00 RAMPS AND MAJOR CROSS STREETS
ROLL 7: SH 360 MAINLANES STA 1209+00 TO STA 1243+00 RAMPS, US 287 MAINLANES AND FRONTAGE ROADS STA 193+40 TO 343+00
ROLL 8: US 287 MAINLANES AND FRONTAGES ROAD PROFILES (US287E,US287W,FREB,FRWB)
ROLL 9: SH 360 NORTHBOUND FRONTAGE ROAD PROFILES (FRNB)
ROLL 10: SH 360 NORTHBOUND AND SOUTHBOUND FRONTAGE ROAD PROFILES (FRNB & FRSB)
ROLL 11: SH 360 SOUTHBOUND FRONTAGE ROAD PROFILE (FRSB), UTURN PROFILES AND MAINLANES PROFILE STA 1209+00 TO END
ROLL 12: DIRECT CONNECTOR PROFILES

PRELIMINARY
SUBJECT TO CHANGE BASED ON FURTHER DEVELOPMENTS RESULTING FROM PUBLIC INPUT AND TECHNICAL REVIEW

DATE APPROVED	DATE SUBMITTED

SCHEMATIC PREPARED BY:
HDR ENGINEERING, INC.
REGISTRATION NUMBER F-754
FOR INTERIM REVIEW ONLY. NOT FOR PERMITTING, BIDDING OR CONSTRUCTION.
Prepared by or under the Direct Supervision of:

NAME	P.E. NUMBER
BRIAN ANDREW SWINDELL	80688
M. SHANE WALTERS	100195

NOVEMBER 13, 2013
DATE

SCALE
0 50 100 150 200 300

ROLL 7 OF 12

HDR Engineering, Inc.
17111 Preston Road, Suite 200
Dallas, Texas 75248-1229

LEGEND

(dash-dot line)	ALIGNMENT
(pink dash-dot line)	PROPOSED R.O.W.
(orange dash-dot line)	EXISTING R.O.W.
(red line)	PROPOSED ACCESS DENIED
(black line)	EXISTING ACCESS DENIED
(red line)	BENTS/ABUTMENTS
(blue line)	PROPOSED RETAINING WALL
(green line)	PROPOSED NOISE WALL
(dashed line)	CITY LIMITS
(orange bar)	PROPOSED TOLL GANTRY
(arrow)	DIRECTION OF TRAFFIC, ONE LANE
(XX)	PARCEL NUMBER
(thin blue line)	PARCEL BOUNDARY
(red hatch)	PAVEMENT TO BE REMOVED
(yellow)	PROPOSED MAINLANES
(cyan)	PROPOSED RAMPS, DIRECT CONNECTORS, COLLECTOR DISTRIBUTORS
(light green)	PROPOSED FRONTAGE ROADS
(lavender)	PROPOSED CROSS STREETS / U-TURNS
(tan)	PROPOSED CONCRETE STRUCTURES
(brown)	PROPOSED STEEL STRUCTURES
(grey)	PROPOSED SHOULDERS, GORES
(purple)	PROPOSED SIDEWALKS
(gold)	PROPOSED CONSTRUCTION BY OTHERS

GENERAL NOTES:

1. EXISTING PAVEMENT WITHIN LIMITS OF PROPOSED RECONSTRUCTION IS ASSUMED TO BE REMOVED.
2. EXISTING RIGHT OF WAY HAS NOT BEEN FIELD SURVEYED. SCHEMATIC LAYOUTS ARE BASED ON AERIAL SURVEY, SUPPLEMENTAL FIELD SURVEYS AND RECORD PLANS ONLY
3. PARCEL OWNERSHIP WAS OBTAINED FROM TARRANT APPRAISAL DISTRICT, 2013 AND ELLIS COUNTY APPRAISAL DISTRICT, 2013, JOHNSON COUNTY APPRAISAL DISTRICT, 2013.
4. APPROXIMATE 100 YEAR FLOODPLAIN LIMITS ARE BASED UPON FEMA FLOOD INSURANCE RATE MAPS NUMBER 48439C0365K,48439C0480K,48439C0490K,48113C0590J.
5. ASSUME SIX FOOT STRUCTURE DEPTH USED FOR CLEARANCE CALCULATIONS UNLESS NOTED OTHERWISE

Texas Department of Transportation
Fort Worth District
Brian R. Barth, P.E. District Engineer
NTTA
STATE HIGHWAY 360
From Green Oaks Boulevard to US 287
Design Schematic
Project Length = 9.20 Miles
CSJ # 2266-02-136
CONTRACT # 02282-SH-360 PS-PD
DESIGN SPEEDS
100% SUBMITTAL
NOVEMBER 13, 2013
ROLL INDEX
ROLL 7 OF 12

Texas Department of Transportation
Fort Worth District
Brian R. Barth, P.E., District Engineer

NTTA
NORTH TEXAS TOLLWAY AUTHORITY
IN AND ALONG THE TOLLWAY RIGHT-OF-WAY
Gerry Carrigan, Executive Director

STATE HIGHWAY 360

From Green Oaks Boulevard to US 287
Tarrant County, Texas
Project Length = 2.4 Miles
CSJ # 2266-02-156
CONTRACT # 02262-TP-TMS PS-PG

DESIGN SPEEDS

MAIN LANES, RAMPS, CONNECTORS	
DIRECT CONNECTORS	55 MPH
COLLECTOR DISTRIBUTORS	35 MPH
CROSS STREETS (SIGNALIZED INTERSECTIONS)	35 MPH
CROSS STREETS (UNSIGNALIZED INTERSECTIONS)	35 MPH
CROSS STREETS (SIGNALIZED INTERSECTIONS)	35 MPH
CROSS STREETS (UNSIGNALIZED INTERSECTIONS)	35 MPH
CROSS STREETS (SIGNALIZED INTERSECTIONS)	35 MPH
CROSS STREETS (UNSIGNALIZED INTERSECTIONS)	35 MPH
CROSS STREETS (SIGNALIZED INTERSECTIONS)	35 MPH
CROSS STREETS (UNSIGNALIZED INTERSECTIONS)	35 MPH
CROSS STREETS (SIGNALIZED INTERSECTIONS)	35 MPH
CROSS STREETS (UNSIGNALIZED INTERSECTIONS)	35 MPH

ROLL INDEX

ROLL 1 01 TO 02 (BRIDGE)
01 TO 02 (BRIDGE)
ROLL 2 01 TO 02 (BRIDGE)
01 TO 02 (BRIDGE)
ROLL 3 01 TO 02 (BRIDGE)
01 TO 02 (BRIDGE)
ROLL 4 01 TO 02 (BRIDGE)
01 TO 02 (BRIDGE)
ROLL 5 01 TO 02 (BRIDGE)
01 TO 02 (BRIDGE)
ROLL 6 01 TO 02 (BRIDGE)
01 TO 02 (BRIDGE)
ROLL 7 01 TO 02 (BRIDGE)
01 TO 02 (BRIDGE)
ROLL 8 01 TO 02 (BRIDGE)
01 TO 02 (BRIDGE)
ROLL 9 01 TO 02 (BRIDGE)
01 TO 02 (BRIDGE)
ROLL 10 01 TO 02 (BRIDGE)
01 TO 02 (BRIDGE)
ROLL 11 01 TO 02 (BRIDGE)
01 TO 02 (BRIDGE)
ROLL 12 01 TO 02 (BRIDGE)
01 TO 02 (BRIDGE)

100% SUBMITTAL
NOVEMBER 13, 2015

PRELIMINARY
SUBJECT TO CHANGE BASED ON FURTHER REVIEW AND RESULTING FROM PUBLIC INPUT AND TECHNICAL REVIEW

(DATE APPROVED) (DATE SUBMITTED)

COUNTY PROPERTY OF:
TARRANT COUNTY
CONTRACTOR PROPERTY OF:
HDR ENGINEERING, INC.
2000 NORTH BELT LINE RD.
DESOTO, TEXAS 75115
PHONE: (972) 230-5185
FIRM # F-3135

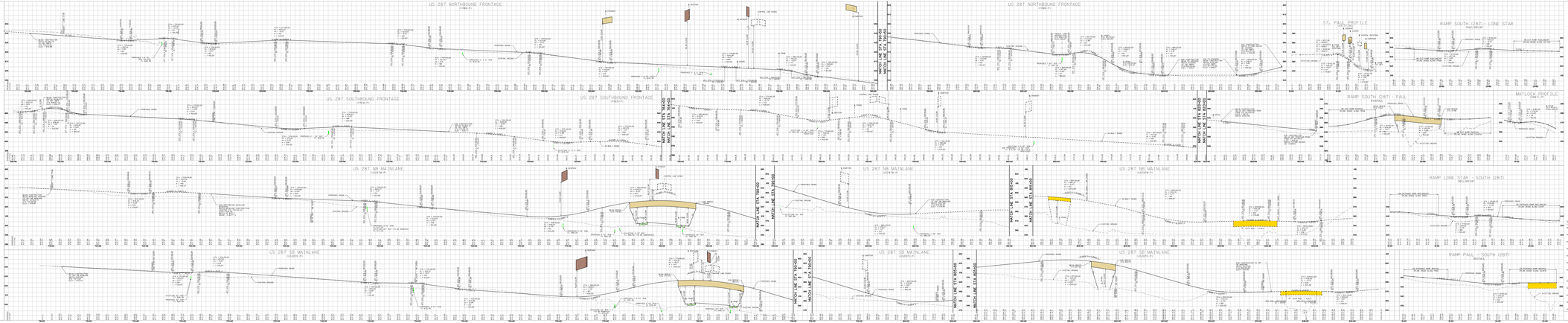
HDR ENGINEERING, INC.
ROLL 8 OF 12

LEGEND

- ALIGNMENT
- PROPOSED R.O.W.
- EXISTING R.O.W.
- PROPOSED ACCESS DENIED
- EXISTING ACCESS DENIED
- BENTS/ABUTMENTS
- PROPOSED RETAINING WALL
- PROPOSED NOISE WALL
- CITY LIMITS
- PROPOSED TOLL GANTRY
- DIRECTION OF TRAFFIC ONE LANE
- PARCEL NUMBER
- PARCEL BOUNDARY
- PAVEMENT TO BE REMOVED
- PROPOSED WARLINES
- PROPOSED RAMPS,DIRECT CONNECTORS, COLLECTOR DISTRIBUTORS
- PROPOSED FRONAGE ROADS / U-TURNS
- PROPOSED CROSS STREETS / U-TURNS
- PROPOSED CONCRETE STRUCTURES
- PROPOSED STEEL STRUCTURES
- PROPOSED SHOULDERS/CURBS
- PROPOSED SIDEWALKS
- PROPOSED CONSTRUCTION BY OTHERS

GENERAL NOTES:

1. EXISTING PAVEMENT WITHIN LIMITS OF PROPOSED RECONSTRUCTION IS ASSUMED TO BE REMOVED.
2. EXISTING RIGHT OF WAY HAS NOT BEEN FIELD SURVEYED.SCHEMATIC LAYOUTS ARE BASED ON AERIAL MAPS AND NOT ON FIELD SURVEYS AND RECORD PLANS ONLY.
3. PARCEL OWNERSHIP WAS OBTAINED FROM TARRANT APPRAISAL DISTRICT,2015 AND ELLIS COUNTY APPRAISAL DISTRICT,2015, JOHNSON COUNTY APPRAISAL DISTRICT,2015.
4. APPROACHES TO THE FLOODPLAIN LIMITS ARE BASED ON FEMA FLOOD INSURANCE RATE MAPS MEMBER #48439C0330K,48439C0345K,48439C0360K,48439C0365L.
5. ASSUME 5X FOOT STRUCTURE DEPTH USED FOR CLEARANCE CALCULATIONS UNLESS NOTED OTHERWISE



Texas Department of Transportation
Fort Worth District
Brian R. Barth, P.E., District Engineer

NTTA
NORTH TEXAS TOLLWAY AUTHORITY
IN AND ALONG THE TOLLWAY RIGHT-OF-WAY
Gerry Carrigan, Executive Director

STATE HIGHWAY 360
From Green Oaks Boulevard to US 287
Tarrant County, Texas
Project Length = 2.4 Miles
CSJ # 2266-02-156
CONTRACT # 02262-TP-TMS PS-PG

DESIGN SPEEDS

ROLL INDEX
100% SUBMITTAL
NOVEMBER 13, 2015
PRELIMINARY
SUBJECT TO CHANGE BASED ON FURTHER REVIEW AND RESULTING FROM PUBLIC INPUT AND TECHNICAL REVIEW
(DATE APPROVED) (DATE SUBMITTED)
COUNTY PROPERTY OF:
TARRANT COUNTY
CONTRACTOR PROPERTY OF:
HDR ENGINEERING, INC.
2000 NORTH BELT LINE RD.
DESOTO, TEXAS 75115
PHONE: (972) 230-5185
FIRM # F-3135
HDR ENGINEERING, INC.
ROLL 8 OF 12

Texas Department of Transportation
Fort Worth District
Brian R.Barth,P.E.District Engineer

NTTA
NORTH TEXAS TOLLWAY AUTHORITY
IN NO WAY ACTS AS THE AUTHORITY HERE

Gerry Carrigan,Executive Director

STATE HIGHWAY 360

From Green Oaks Boulevard to US 287
Tarrant County, Texas
Project Length = 9.202 Miles
CSJ # 2266-02-156
CONTRACT # 02260-SH-360 PS-PO

DESIGN SPEEDS

MAIN LANES (FREEWAY)	70 MPH
MAIN LANES (URBAN FREEWAY)	60 MPH
DISCRETIONARY LANES (FREEWAY)	70 MPH
DISCRETIONARY LANES (URBAN FREEWAY)	60 MPH
RAMP CONNECTORS (FREEWAY)	50 MPH
RAMP CONNECTORS (URBAN FREEWAY)	40 MPH
RAMP CONNECTORS (NON-FREEWAY)	35 MPH
RAMP CONNECTORS (NON-FREEWAY)	30 MPH
DIRECT CONNECTORS (FREEWAY)	50 MPH
DIRECT CONNECTORS (URBAN FREEWAY)	40 MPH
DIRECT CONNECTORS (NON-FREEWAY)	35 MPH
DIRECT CONNECTORS (NON-FREEWAY)	30 MPH
FRONTAGE ROADS (FREEWAY)	50 MPH
FRONTAGE ROADS (URBAN FREEWAY)	40 MPH
FRONTAGE ROADS (NON-FREEWAY)	35 MPH
FRONTAGE ROADS (NON-FREEWAY)	30 MPH
CROSS STREET (FREEWAY)	50 MPH
CROSS STREET (URBAN FREEWAY)	40 MPH
CROSS STREET (NON-FREEWAY)	35 MPH
CROSS STREET (NON-FREEWAY)	30 MPH

VICINITY MAP

ROLL INDEX

ROLL 1 SH 360 NORTHBOUND FRONTAGE
ROLL 2 SH 360 NORTHBOUND FRONTAGE
ROLL 3 SH 360 NORTHBOUND FRONTAGE
ROLL 4 SH 360 NORTHBOUND FRONTAGE
ROLL 5 SH 360 NORTHBOUND FRONTAGE
ROLL 6 SH 360 NORTHBOUND FRONTAGE
ROLL 7 SH 360 NORTHBOUND FRONTAGE
ROLL 8 SH 360 NORTHBOUND FRONTAGE
ROLL 9 SH 360 NORTHBOUND FRONTAGE
ROLL 10 SH 360 NORTHBOUND FRONTAGE
ROLL 11 SH 360 NORTHBOUND FRONTAGE
ROLL 12 SH 360 NORTHBOUND FRONTAGE

NOW SUBMITTAL
NOVEMBER 19, 2015

PRELIMINARY
SUBJECT TO CHANGE BASED ON FURTHER REVIEW AND RESULTING FROM PUBLIC INPUT AND TECHNICAL REVIEW

DATE APPROVED: _____ DATE COMPLETED: _____

CONTRACT PREPARED BY:
HDR ENGINEERING, INC.
ONE GALLERIA TOWER, SUITE 1100
13355 NOEL ROAD, DALLAS, TX 75240
(972) 788-1146
BRIAN PRESLEY, P.E. LICENSE NO. 102260
DAVID ROSS, P.E. LICENSE NO. 102260
DATE: _____

ROLL 9 OF 12

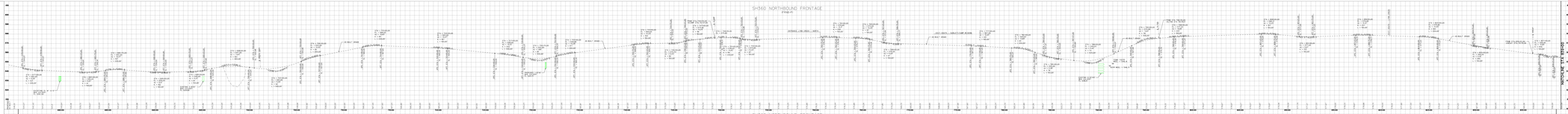
HDR ENGINEERING, INC.
ONE GALLERIA TOWER
13355 NOEL ROAD, SUITE 1100
DALLAS, TEXAS 75240-5630

LEGEND

- ALIGNMENT
- PROPOSED R.O.W.
- EXISTING R.O.W.
- PROPOSED ACCESS DENIED
- EXISTING ACCESS DENIED
- BENTS/ABUTMENTS
- PROPOSED RETAINING WALL
- PROPOSED NOISE WALL
- CITY LIMITS
- PROPOSED TOLL GANTRY
- DIRECTION OF TRAFFIC/ONE LANE
- PARCEL NUMBER
- PARCEL BOUNDARY
- PAVEMENT TO BE REMOVED
- PROPOSED WARLINES
- PROPOSED RAMPS/DIRECT CONNECTORS/COLLECTOR DISTRIBUTORS
- PROPOSED FRONTAGE ROADS / U-TURNS
- PROPOSED CROSS STREETS / U-TURNS
- PROPOSED CONCRETE STRUCTURES
- PROPOSED STEEL STRUCTURES
- PROPOSED SHOULDERS/CURBS
- PROPOSED SIDEWALKS
- PROPOSED CONSTRUCTION BY OTHERS

GENERAL NOTES:

1. EXISTING PAVEMENT WITHIN LIMITS OF PROPOSED RECONSTRUCTION IS ASSUMED TO BE REMOVED.
2. EXISTING RIGHT OF WAY AND NOT BEEN FIELD SURVEYED.SCHEMATIC LAYOUTS ARE BASED ON AERIAL PHOTOGRAPHY AND NOT FIELD SURVEYS AND RECORD PLANS ONLY.
3. PARCEL OWNERSHIP WAS OBTAINED FROM TARRANT APPRAISAL DISTRICT,2015 AND ELLIS COUNTY APPRAISAL DISTRICT,2015, JOHNSON COUNTY APPRAISAL DISTRICT,2015.
4. APPROXIMATE THE TOP FLOODPLAIN LIMITS ARE BASED ON FEMA FLOOD INSURANCE RATE MAPS NUMBER 48439C0330K,48439C0345K,48439C0360K,48439C0365K.
5. ASSUME 5ft FOOT STRUCTURE DEPTH USED FOR CLEARANCE CALCULATING UNLESS NOTED OTHERWISE



Texas Department of Transportation
Fort Worth District
Brian R.Barth,P.E.District Engineer

NTTA
NORTH TEXAS TOLLWAY AUTHORITY
IN NO WAY ACTS AS THE AUTHORITY HERE

Gerry Carrigan,Executive Director

STATE HIGHWAY 360

From Green Oaks Boulevard to US 287
Tarrant County, Texas
Project Length = 9.202 Miles
CSJ # 2266-02-156
CONTRACT # 02260-SH-360 PS-PO

DESIGN SPEEDS

MAIN LANES (FREEWAY)	70 MPH
MAIN LANES (URBAN FREEWAY)	60 MPH
DISCRETIONARY LANES (FREEWAY)	70 MPH
DISCRETIONARY LANES (URBAN FREEWAY)	60 MPH
RAMP CONNECTORS (FREEWAY)	50 MPH
RAMP CONNECTORS (URBAN FREEWAY)	40 MPH
RAMP CONNECTORS (NON-FREEWAY)	35 MPH
RAMP CONNECTORS (NON-FREEWAY)	30 MPH
DIRECT CONNECTORS (FREEWAY)	50 MPH
DIRECT CONNECTORS (URBAN FREEWAY)	40 MPH
DIRECT CONNECTORS (NON-FREEWAY)	35 MPH
DIRECT CONNECTORS (NON-FREEWAY)	30 MPH
FRONTAGE ROADS (FREEWAY)	50 MPH
FRONTAGE ROADS (URBAN FREEWAY)	40 MPH
FRONTAGE ROADS (NON-FREEWAY)	35 MPH
FRONTAGE ROADS (NON-FREEWAY)	30 MPH
CROSS STREET (FREEWAY)	50 MPH
CROSS STREET (URBAN FREEWAY)	40 MPH
CROSS STREET (NON-FREEWAY)	35 MPH
CROSS STREET (NON-FREEWAY)	30 MPH

VICINITY MAP

ROLL INDEX

ROLL 1 SH 360 NORTHBOUND FRONTAGE
ROLL 2 SH 360 NORTHBOUND FRONTAGE
ROLL 3 SH 360 NORTHBOUND FRONTAGE
ROLL 4 SH 360 NORTHBOUND FRONTAGE
ROLL 5 SH 360 NORTHBOUND FRONTAGE
ROLL 6 SH 360 NORTHBOUND FRONTAGE
ROLL 7 SH 360 NORTHBOUND FRONTAGE
ROLL 8 SH 360 NORTHBOUND FRONTAGE
ROLL 9 SH 360 NORTHBOUND FRONTAGE
ROLL 10 SH 360 NORTHBOUND FRONTAGE
ROLL 11 SH 360 NORTHBOUND FRONTAGE
ROLL 12 SH 360 NORTHBOUND FRONTAGE

NOW SUBMITTAL
NOVEMBER 19, 2015

PRELIMINARY
SUBJECT TO CHANGE BASED ON FURTHER REVIEW AND RESULTING FROM PUBLIC INPUT AND TECHNICAL REVIEW

DATE APPROVED: _____ DATE COMPLETED: _____

CONTRACT PREPARED BY:
HDR ENGINEERING, INC.
ONE GALLERIA TOWER, SUITE 1100
13355 NOEL ROAD, DALLAS, TX 75240
(972) 788-1146
BRIAN PRESLEY, P.E. LICENSE NO. 102260
DAVID ROSS, P.E. LICENSE NO. 102260
DATE: _____

ROLL 9 OF 12

HDR ENGINEERING, INC.
ONE GALLERIA TOWER
13355 NOEL ROAD, SUITE 1100
DALLAS, TEXAS 75240-5630

Texas Department of Transportation®

Fort Worth District

Brian R. Barth, P.E. District Engineer

NTTA

NORTH TEXAS TOLLWAY AUTHORITY

© 2013 by North Texas Tollway Authority; all rights reserved

Gerry Carrigan, Executive Director

STATE HIGHWAY 360

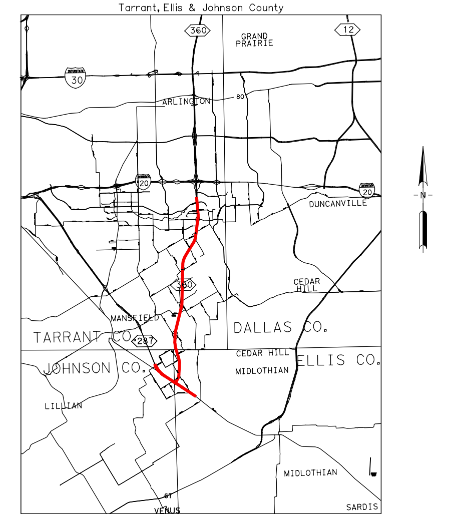
From Green Oaks Boulevard to US 287
Design Schematic
Project Length = 9.20 Miles
CSJ # 2266-02-136
CONTRACT # 02282-SH-360 PS-PD

DESIGN SPEEDS

DESIGN SPEEDS AND FUNCTIONAL CLASSIFICATIONS:

MAINLANES (URBAN FREEWAY)	- 70 MPH
RAMPS (URBAN FREEWAY)	- 50 MPH
DIRECT CONNECTOR (URBAN FREEWAY)	- 40 MPH
FRONTAGE ROADS (URBAN COLLECTOR)	- 40 MPH
CROSS STREETS	
SUBLETT RD / CAMP WISDOM RD (URBAN MAJOR ARTERIAL)	- 35 MPH
WEBB LYNN RD / LYNN CREEK PKWY (URBAN MINOR COLLECTOR)	- 35 MPH
NEW YORK AVE (URBAN MAJOR COLLECTOR)	- 40 MPH
EDEN RD (URBAN MINOR ARTERIAL)	- 40 MPH
DEBBIE LN / RAGLAND RD (URBAN MAJOR ARTERIAL)	- 35 MPH
HOLLAND RD (URBAN PRINCIPAL ARTERIAL)	- 30 MPH
BROAD ST (URBAN PRINCIPAL ARTERIAL)	- 40 MPH
HERITAGE PKWY (URBAN PRINCIPAL ARTERIAL)	- 40 MPH
LONE STAR RD (URBAN PRINCIPAL ARTERIAL)	- 40 MPH
MATLOCK RD AT SH 360 (URBAN MAJOR ARTERIAL)	- 40 MPH
MATLOCK RD AT US 287 (RURAL MAJOR ARTERIAL)	- 30 MPH
ELLIS DR/ST (RURAL MAJOR COLLECTOR)	- 30 MPH
ST. PAUL RD (RURAL MINOR COLLECTOR)	- 30 MPH
UTURNS (URBAN COLLECTOR)	- 20 MPH

Tarrant, Ellis & Johnson County



100% SUBMITTAL

NOVEMBER 13, 2013

ROLL INDEX

ROLL 1: SH 360 MAINLANES STA 736+90 TO STA 794+00 RAMPS AND MAJOR CROSS STREETS
ROLL 2: SH 360 MAINLANES STA 794+00 TO STA 878+00 RAMPS AND MAJOR CROSS STREETS
ROLL 3: SH 360 MAINLANES STA 878+00 TO STA 966+00 RAMPS AND MAJOR CROSS STREETS
ROLL 4: SH 360 MAINLANES STA 966+00 TO STA 1049+00 RAMPS AND MAJOR CROSS STREETS
ROLL 5: SH 360 MAINLANES STA 1049+00 TO STA 1110+00 RAMPS AND MAJOR CROSS STREETS
ROLL 6: SH 360 MAINLANES STA 1110+00 TO STA 1209+00 RAMPS AND MAJOR CROSS STREETS
ROLL 7: SH 360 MAINLANES STA 1209+00 TO STA 1243+00 RAMPS, US 287 MAINLANES AND FRONTAGE ROADS STA 193+40 TO 343+00
ROLL 8: US 287 MAINLANES AND FRONTAGES ROAD PROFILES (US287E,US287W,FREB,FRWB)
ROLL 9: SH 360 NORTHBOUND FRONTAGE ROAD PROFILES (FRNB)
ROLL 10: SH 360 NORTHBOUND AND SOUTHBOUND FRONTAGE ROAD PROFILES (FRNB & FRSB)
ROLL 11: SH 360 SOUTHBOUND FRONTAGE ROAD PROFILE (FRSB), UTURN PROFILES AND MAINLANES PROFILE STA 1209+00 TO END
ROLL 12: DIRECT CONNECTOR PROFILES

PRELIMINARY
SUBJECT TO CHANGE BASED ON FURTHER DEVELOPMENTS RESULTING FROM PUBLIC INPUT AND TECHNICAL REVIEW

DATE APPROVED

DATE SUBMITTED

SCHEMATIC PREPARED BY:

HDR ENGINEERING, INC.
REGISTRATION NUMBER F-754

FOR INTERIM REVIEW ONLY. NOT FOR PERMITTING, BIDDING OR CONSTRUCTION.

Prepared by or under the Direct Supervision of:

NAME	P.E. NUMBER
BRIAN ANDREW SWINDELL	80688
M. SHANE WALTERS	100195

NOVEMBER 13, 2013
DATE

SCALE
0 50 100 150 200 300

ROLL 10 OF 12

HDR
HDR Engineering, Inc.
17111 Preston Road, Suite 200
Dallas, Texas 75248-1229

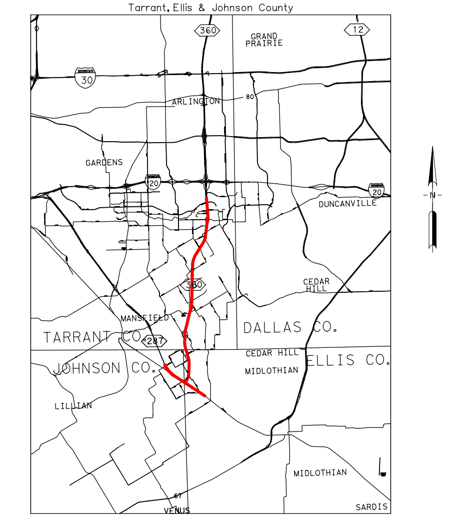
LEGEND

- ALIGNMENT
- PROPOSED R.O.W.
- EXISTING R.O.W.
- PROPOSED ACCESS DENIED
- EXISTING ACCESS DENIED
- BENTS/ABUTMENTS
- PROPOSED RETAINING WALL
- PROPOSED NOISE WALL
- CITY LIMITS
- PROPOSED TOLL GANTRY
- DIRECTION OF TRAFFIC, ONE LANE
- (XX) PARCEL NUMBER
- PARCEL BOUNDARY
- PAVEMENT TO BE REMOVED
- PROPOSED MAINLANES
- PROPOSED RAMPS, DIRECT CONNECTORS, COLLECTOR DISTRIBUTORS
- PROPOSED FRONTAGE ROADS
- PROPOSED CROSS STREETS / U-TURNS
- PROPOSED CONCRETE STRUCTURES
- PROPOSED STEEL STRUCTURES
- PROPOSED SHOULDERS, GORES
- PROPOSED SIDEWALKS
- PROPOSED CONSTRUCTION BY OTHERS

GENERAL NOTES:

1. EXISTING PAVEMENT WITHIN LIMITS OF PROPOSED RECONSTRUCTION IS ASSUMED TO BE REMOVED.
2. EXISTING RIGHT OF WAY HAS NOT BEEN FIELD SURVEYED. SCHEMATIC LAYOUTS ARE BASED ON AERIAL SURVEY, SUPPLEMENTAL FIELD SURVEYS AND RECORD PLANS ONLY
3. PARCEL OWNERSHIP WAS OBTAINED FROM TARRANT APPRAISAL DISTRICT, 2013 AND ELLIS COUNTY APPRAISAL DISTRICT, 2013, JOHNSON COUNTY APPRAISAL DISTRICT, 2013.
4. APPROXIMATE 100 YEAR FLOODPLAIN LIMITS ARE BASED UPON FEMA FLOOD INSURANCE RATE MAPS NUMBER 48439C0365K,48439C0480K,48439C0490K,48113C0590J.
5. ASSUME SIX FOOT STRUCTURE DEPTH USED FOR CLEARANCE CALCULATIONS UNLESS NOTED OTHERWISE

Texas Department of Transportation®
Fort Worth District
Brian R. Barth, P.E. District Engineer
NTTA
NORTH TEXAS TOLLWAY AUTHORITY
Gerry Carrigan, Executive Director
STATE HIGHWAY 360
From Green Oaks Boulevard to US 287
Design Schematic
Project Length = 9.20 Miles
CSJ # 2266-02-136
CONTRACT # 02282-SH-360 PS-PD
DESIGN SPEEDS
100% SUBMITTAL
NOVEMBER 13, 2013
ROLL INDEX
PRELIMINARY
SUBJECT TO CHANGE BASED ON FURTHER DEVELOPMENTS RESULTING FROM PUBLIC INPUT AND TECHNICAL REVIEW
ROLL 10 OF 12



Texas Department of Transportation

Fort Worth District

Brian R. Barth, P.E. District Engineer

NTTA

NORTH TEXAS TOLLWAY AUTHORITY

© 2013 by North Texas Tollway Authority; all rights reserved

Gerry Carrigan, Executive Director

STATE HIGHWAY 360

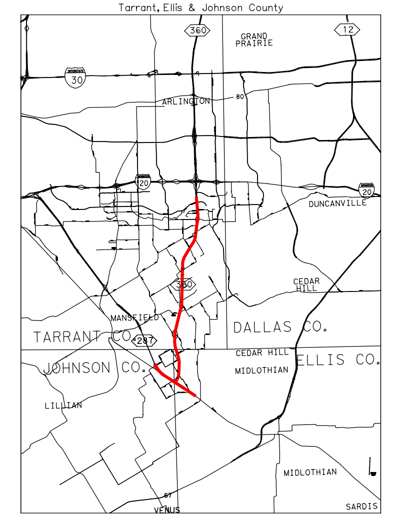
From Green Oaks Boulevard to US 287
Design Schematic
Project Length = 9.20 Miles
CSJ # 2266-02-136
CONTRACT # 02282-SH-360 PS-PD

DESIGN SPEEDS

DESIGN SPEEDS AND FUNCTIONAL CLASSIFICATIONS:

MAINLANES (URBAN FREEWAY)	- 70 MPH
RAMPS (URBAN FREEWAY)	- 50 MPH
DIRECT CONNECTOR (URBAN FREEWAY)	- 40 MPH
FRONTAGE ROADS (URBAN COLLECTOR)	- 40 MPH
CROSS STREETS	
SUBLETT RD / CAMP WISDOM RD (URBAN MAJOR ARTERIAL)	- 35 MPH
WEBB LYNN RD / LYNN CREEK PKWY (URBAN MINOR COLLECTOR)	- 35 MPH
NEW YORK AVE (URBAN MAJOR COLLECTOR)	- 40 MPH
EDEN RD (URBAN MINOR ARTERIAL)	- 40 MPH
DEBBIE LN / RAGLAND RD (URBAN MAJOR ARTERIAL)	- 35 MPH
HOLLAND RD (URBAN PRINCIPAL ARTERIAL)	- 30 MPH
BROAD ST (URBAN PRINCIPAL ARTERIAL)	- 40 MPH
HERITAGE PKWY (URBAN PRINCIPAL ARTERIAL)	- 40 MPH
LONE STAR RD (URBAN PRINCIPAL ARTERIAL)	- 40 MPH
MATLOCK RD AT SH 360 (URBAN MAJOR ARTERIAL)	- 40 MPH
MATLOCK RD AT US 287 (RURAL MAJOR ARTERIAL)	- 30 MPH
ELLIS DR/ST (RURAL MAJOR COLLECTOR)	- 30 MPH
ST. PAUL RD (RURAL MINOR COLLECTOR)	- 30 MPH
UTURNS (URBAN COLLECTOR)	- 20 MPH

Tarrant, Ellis & Johnson County



100% SUBMITTAL

NOVEMBER 13, 2013

ROLL INDEX

ROLL 1: SH 360 MAINLANES STA 736+90 TO STA 794+00 RAMPS AND MAJOR CROSS STREETS

ROLL 2: SH 360 MAINLANES STA 794+00 TO STA 878+00 RAMPS AND MAJOR CROSS STREETS

ROLL 3: SH 360 MAINLANES STA 878+00 TO STA 966+00 RAMPS AND MAJOR CROSS STREETS

ROLL 4: SH 360 MAINLANES STA 966+00 TO STA 1049+00 RAMPS AND MAJOR CROSS STREETS

ROLL 5: SH 360 MAINLANES STA 1049+00 TO STA 1110+00 RAMPS AND MAJOR CROSS STREETS

ROLL 6: SH 360 MAINLANES STA 1110+00 TO STA 1209+00 RAMPS AND MAJOR CROSS STREETS

ROLL 7: SH 360 MAINLANES STA 1209+00 TO STA 1243+00 RAMPS, US 287 MAINLANES AND FRONTAGE ROADS STA 193+40 TO 343+00

ROLL 8: US 287 MAINLANES AND FRONTAGES ROAD PROFILES (US287E,US287W,FREB,FRWB)

ROLL 9: SH 360 NORTHBOUND FRONTAGE ROAD PROFILES (FRNB)

ROLL 10: SH 360 NORTHBOUND AND SOUTHBOUND FRONTAGE ROAD PROFILES (FRNB & FRSB)

ROLL 11: SH 360 SOUTHBOUND FRONTAGE ROAD PROFILE (FRSB), UTURN PROFILES AND MAINLANES PROFILE STA 1209+00 TO END

ROLL 12: DIRECT CONNECTOR PROFILES

PRELIMINARY
SUBJECT TO CHANGE BASED ON FURTHER DEVELOPMENTS RESULTING FROM PUBLIC INPUT AND TECHNICAL REVIEW

DATE APPROVED	DATE SUBMITTED

SCHEMATIC PREPARED BY:

HDR ENGINEERING, INC.
REGISTRATION NUMBER F-754

FOR INTERIM REVIEW ONLY. NOT FOR PERMITTING, BIDDING OR CONSTRUCTION.

Prepared by or under the Direct Supervision of:

NAME	P.E. NUMBER
BRIAN ANDREW SWINDELL	80688
M. SHANE WALTERS	100195

NOVEMBER 13, 2013
DATE

SCALE
0 50 100 150 200 300

ROLL 11 OF 12

HDR Engineering, Inc.
17111 Preston Road, Suite 200
Dallas, Texas 75248-1229

LEGEND

- ALIGNMENT
- PROPOSED R.O.W.
- EXISTING R.O.W.
- PROPOSED ACCESS DENIED
- EXISTING ACCESS DENIED
- BENTS/ABUTMENTS
- PROPOSED RETAINING WALL
- PROPOSED NOISE WALL
- CITY LIMITS
- PROPOSED TOLL GANTRY
- DIRECTION OF TRAFFIC, ONE LANE
- (XX) PARCEL NUMBER
- PARCEL BOUNDARY
- PAVEMENT TO BE REMOVED
- PROPOSED MAINLANES
- PROPOSED RAMPS, DIRECT CONNECTORS, COLLECTOR DISTRIBUTORS
- PROPOSED FRONTAGE ROADS
- PROPOSED CROSS STREETS / U-TURNS
- PROPOSED CONCRETE STRUCTURES
- PROPOSED STEEL STRUCTURES
- PROPOSED SHOULDERS, GORES
- PROPOSED SIDEWALKS
- PROPOSED CONSTRUCTION BY OTHERS

GENERAL NOTES:

1. EXISTING PAVEMENT WITHIN LIMITS OF PROPOSED RECONSTRUCTION IS ASSUMED TO BE REMOVED.
2. EXISTING RIGHT OF WAY HAS NOT BEEN FIELD SURVEYED. SCHEMATIC LAYOUTS ARE BASED ON AERIAL SURVEY, SUPPLEMENTAL FIELD SURVEYS AND RECORD PLANS ONLY
3. PARCEL OWNERSHIP WAS OBTAINED FROM TARRANT APPRAISAL DISTRICT, 2013 AND ELLIS COUNTY APPRAISAL DISTRICT, 2013, JOHNSON COUNTY APPRAISAL DISTRICT, 2013.
4. APPROXIMATE 100 YEAR FLOODPLAIN LIMITS ARE BASED UPON FEMA FLOOD INSURANCE RATE MAPS NUMBER 48439C0365K,48439C0480K,48439C0490K,48113C0590J.
5. ASSUME SIX FOOT STRUCTURE DEPTH USED FOR CLEARANCE CALCULATIONS UNLESS NOTED OTHERWISE

Texas Department of Transportation
Fort Worth District
Brian R. Barth, P.E. District Engineer
NTTA
NORTH TEXAS TOLLWAY AUTHORITY
Gerry Carrigan, Executive Director
STATE HIGHWAY 360
From Green Oaks Boulevard to US 287
Design Schematic
Project Length = 9.20 Miles
CSJ # 2266-02-136
CONTRACT # 02282-SH-360 PS-PD
DESIGN SPEEDS
100% SUBMITTAL
NOVEMBER 13, 2013
PRELIMINARY
SUBJECT TO CHANGE BASED ON FURTHER DEVELOPMENTS RESULTING FROM PUBLIC INPUT AND TECHNICAL REVIEW
ROLL 11 OF 12

Texas Department of Transportation®
Fort Worth District
Brian R. Barth, P.E. District Engineer

NTTA® NORTH TEXAS TOLLWAY AUTHORITY
© 2013 by North Texas Tollway Authority; all rights reserved
Gerry Carrigan, Executive Director

STATE HIGHWAY 360

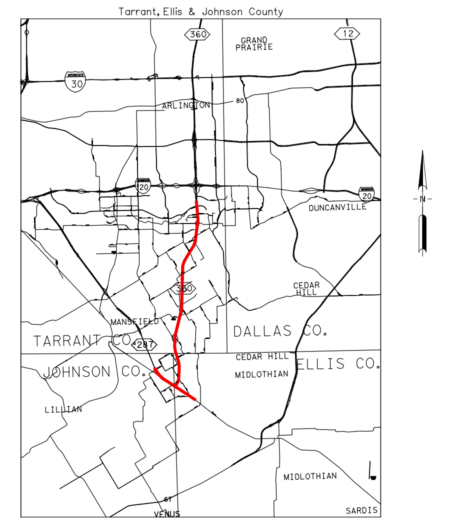
From Green Oaks Boulevard to US 287
Design Schematic
Project Length = 9.20 Miles
CSJ # 2266-02-136
CONTRACT # 02282-SH-360 PS-PD

DESIGN SPEEDS

DESIGN SPEEDS AND FUNCTIONAL CLASSIFICATIONS:

MAINLANES (URBAN FREEWAY)	- 70 MPH
RAMPS (URBAN FREEWAY)	- 50 MPH
DIRECT CONNECTOR (URBAN FREEWAY)	- 40 MPH
FRONTAGE ROADS (URBAN COLLECTOR)	- 40 MPH
CROSS STREETS	
SUBLETT RD / CAMP WISDOM RD (URBAN MAJOR ARTERIAL)	- 35 MPH
WEBB LYNN RD / LYNN CREEK PKWY (URBAN MINOR COLLECTOR)	- 35 MPH
NEW YORK AVE (URBAN MAJOR COLLECTOR)	- 40 MPH
EDEN RD (URBAN MINOR ARTERIAL)	- 40 MPH
DEBBIE LN / RAGLAND RD (URBAN MAJOR ARTERIAL)	- 35 MPH
HOLLAND RD (URBAN PRINCIPAL ARTERIAL)	- 30 MPH
BROAD ST (URBAN PRINCIPAL ARTERIAL)	- 40 MPH
HERITAGE PKWY (URBAN PRINCIPAL ARTERIAL)	- 40 MPH
LONE STAR RD (URBAN PRINCIPAL ARTERIAL)	- 40 MPH
MATLOCK RD AT SH 360 (URBAN MAJOR ARTERIAL)	- 40 MPH
MATLOCK RD AT US 287 (RURAL MAJOR ARTERIAL)	- 30 MPH
ELLIS DR/ST (RURAL MAJOR COLLECTOR)	- 30 MPH
ST. PAUL RD (RURAL MINOR COLLECTOR)	- 30 MPH
UTURNS (URBAN COLLECTOR)	- 20 MPH

Tarrant, Ellis & Johnson County



100% SUBMITTAL
NOVEMBER 13, 2013

ROLL INDEX

- ROLL 1: SH 360 MAINLANES STA 736+90 TO STA 794+00 RAMPS AND MAJOR CROSS STREETS
- ROLL 2: SH 360 MAINLANES STA 794+00 TO STA 878+00 RAMPS AND MAJOR CROSS STREETS
- ROLL 3: SH 360 MAINLANES STA 878+00 TO STA 966+00 RAMPS AND MAJOR CROSS STREETS
- ROLL 4: SH 360 MAINLANES STA 966+00 TO STA 1049+00 RAMPS AND MAJOR CROSS STREETS
- ROLL 5: SH 360 MAINLANES STA 1049+00 TO STA 1110+00 RAMPS AND MAJOR CROSS STREETS
- ROLL 6: SH 360 MAINLANES STA 1110+00 TO STA 1209+00 RAMPS AND MAJOR CROSS STREETS
- ROLL 7: SH 360 MAINLANES STA 1209+00 TO STA 1243+00 RAMPS, US 287 MAINLANES AND FRONTAGE ROADS STA 193+40 TO 343+00
- ROLL 8: US 287 MAINLANES AND FRONTAGES ROAD PROFILES (US287E,US287W,FREB,FRWB)
- ROLL 9: SH 360 NORTHBOUND FRONTAGE ROAD PROFILES (FRNB)
- ROLL 10: SH 360 NORTHBOUND AND SOUTHBOUND FRONTAGE ROAD PROFILES (FRNB & FRSB)
- ROLL 11: SH 360 SOUTHBOUND FRONTAGE ROAD PROFILE (FRSB), UTURN PROFILES AND MAINLANES PROFILE STA 1209+00 TO END
- ROLL 12: DIRECT CONNECTOR PROFILES

PRELIMINARY
SUBJECT TO CHANGE BASED ON FURTHER DEVELOPMENTS RESULTING FROM PUBLIC INPUT AND TECHNICAL REVIEW

DATE APPROVED	DATE SUBMITTED

SCHEMATIC PREPARED BY:
HDR ENGINEERING, INC.
REGISTRATION NUMBER F-754
FOR INTERIM REVIEW ONLY. NOT FOR PERMITTING, BIDDING OR CONSTRUCTION.
Prepared by or under the Direct Supervision of:

NAME	P.E. NUMBER
BRIAN ANDREW SWINDELL	80688
M. SHANE WALTERS	100195

NOVEMBER 13, 2013
DATE

SCALE 0 50 100 150 200 300

ROLL 12 OF 12

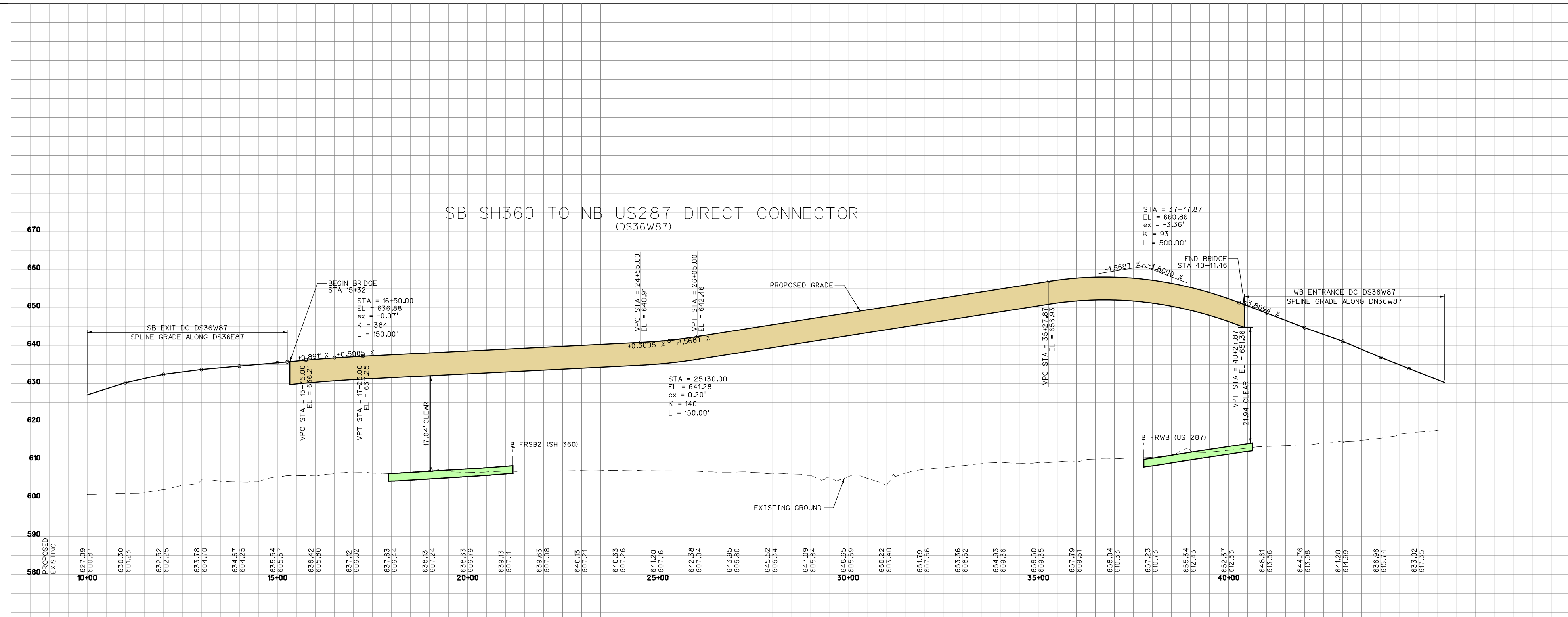
HDR Engineering, Inc.
17111 Preston Road, Suite 200
Dallas, Texas 75248-1229

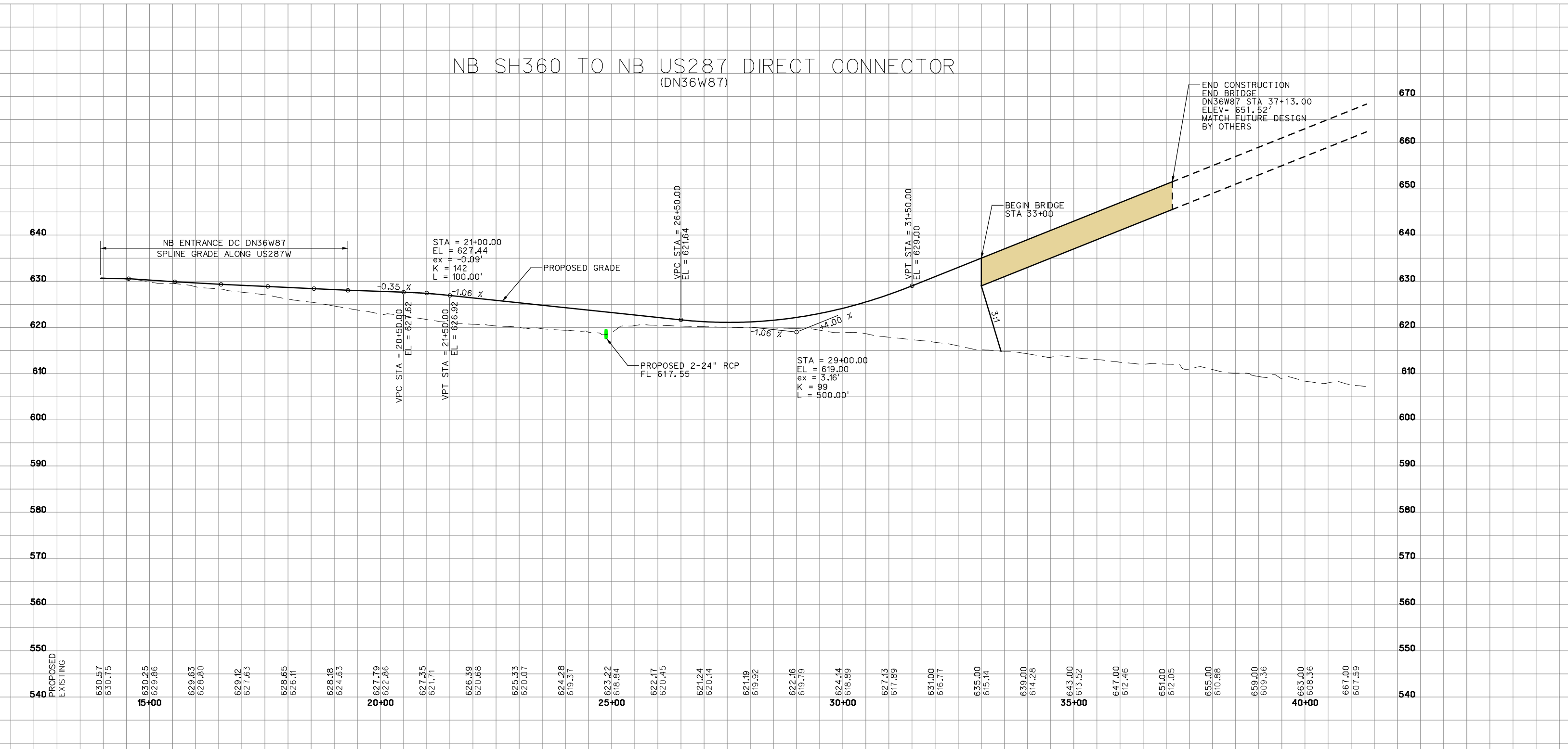
LEGEND

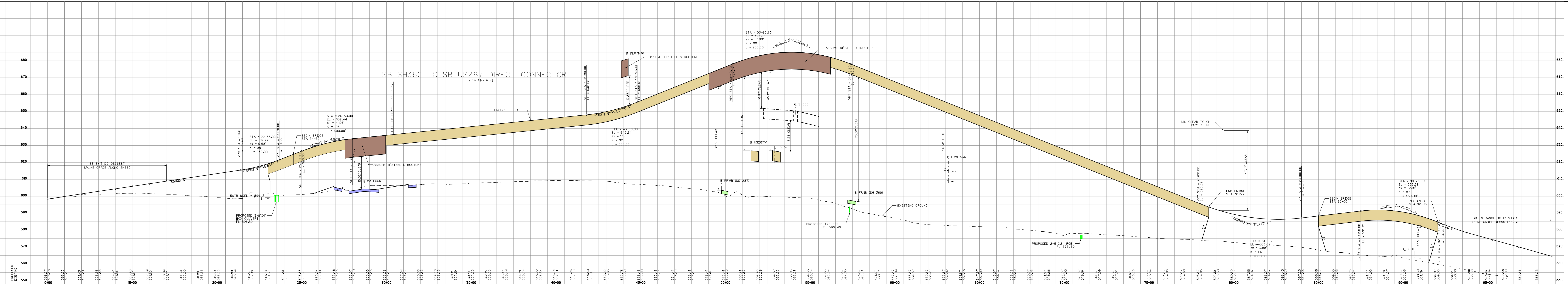
- ALIGNMENT
- PROPOSED R.O.W.
- EXISTING R.O.W.
- PROPOSED ACCESS DENIED
- EXISTING ACCESS DENIED
- BENTS/ABUTMENTS
- PROPOSED RETAINING WALL
- PROPOSED NOISE WALL
- CITY LIMITS
- PROPOSED TOLL GANTRY
- DIRECTION OF TRAFFIC, ONE LANE
- (XX) PARCEL NUMBER
- PARCEL BOUNDARY
- PAVEMENT TO BE REMOVED
- PROPOSED MAINLANES
- PROPOSED RAMPS, DIRECT CONNECTORS, COLLECTOR DISTRIBUTORS
- PROPOSED FRONTAGE ROADS
- PROPOSED CROSS STREETS / U-TURNS
- PROPOSED CONCRETE STRUCTURES
- PROPOSED STEEL STRUCTURES
- PROPOSED SHOULDERS, GORES
- PROPOSED SIDEWALKS
- PROPOSED CONSTRUCTION BY OTHERS

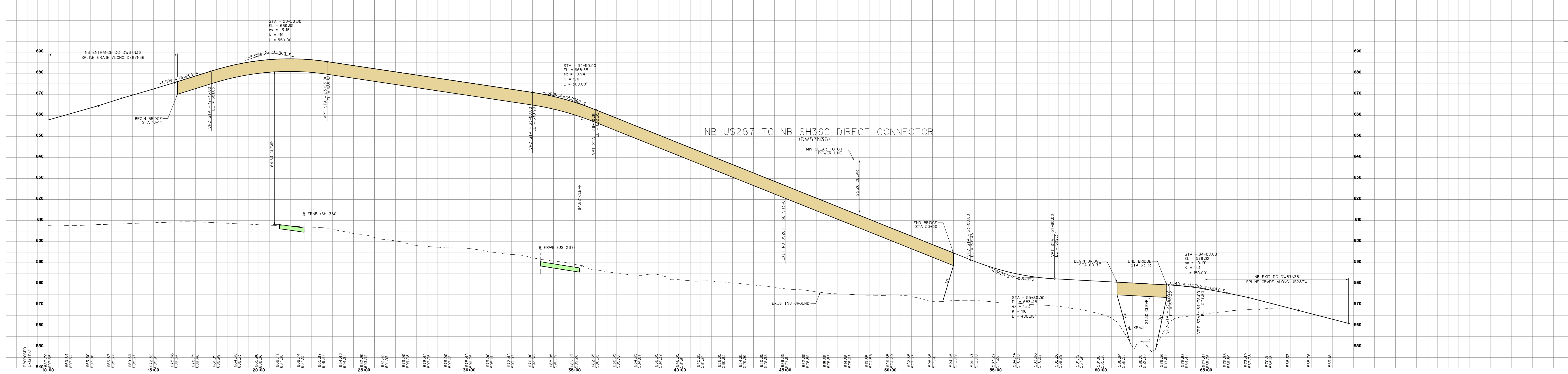
GENERAL NOTES:

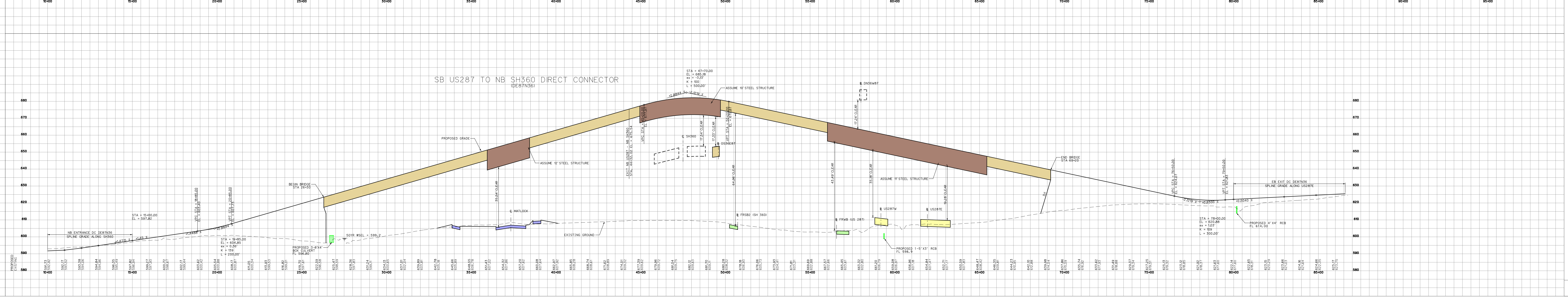
1. EXISTING PAVEMENT WITHIN LIMITS OF PROPOSED RECONSTRUCTION IS ASSUMED TO BE REMOVED.
2. EXISTING RIGHT OF WAY HAS NOT BEEN FIELD SURVEYED. SCHEMATIC LAYOUTS ARE BASED ON AERIAL SURVEY, SUPPLEMENTAL FIELD SURVEYS AND RECORD PLANS ONLY
3. PARCEL OWNERSHIP WAS OBTAINED FROM TARRANT APPRAISAL DISTRICT, 2013 AND ELLIS COUNTY APPRAISAL DISTRICT, 2013, JOHNSON COUNTY APPRAISAL DISTRICT, 2013.
4. APPROXIMATE 100 YEAR FLOODPLAIN LIMITS ARE BASED UPON FEMA FLOOD INSURANCE RATE MAPS NUMBER 48439C0365K, 48439C0480K, 48439C0490K, 48113C0590J.
5. ASSUME SIX FOOT STRUCTURE DEPTH USED FOR CLEARANCE CALCULATIONS UNLESS NOTED OTHERWISE











Texas Department of Transportation®
Fort Worth District
Brian R. Barth, P.E. District Engineer
NTTA® NORTH TEXAS TOLLWAY AUTHORITY
Gerry Carrigan, Executive Director
STATE HIGHWAY 360
From Green Oaks Boulevard to US 287
Design Schematic
Project Length = 9.20 Miles
CSJ # 2266-02-136
CONTRACT # 02282-SH-360 PS-PD
DESIGN SPEEDS
100% SUBMITTAL
NOVEMBER 13, 2013
ROLL INDEX
PRELIMINARY
SUBJECT TO CHANGE BASED ON FURTHER DEVELOPMENTS RESULTING FROM PUBLIC INPUT AND TECHNICAL REVIEW
ROLL 12 OF 12
HDR Engineering, Inc.