# TEXAS DEPARTMENT OF TRANSPORTATION
## ODESSA DISTRICT

DESIGN SCHEMATIC
JOHN R. SPEED, P.E., DISTRICT ENGINEER
ECTOR/MIDLAND COUNTY
IH 20

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PROJECT LIMIT: FROM EAST OF SH349 TO EAST OF JBS PKWY

CONTROL: 0005-13-060, 0005-14-086, 0005-14-087, 0005-14-092, 0005-13-064, 0005-14-093, 0005-14-094

PROJECT LENGTH = 17.03 MILES (89,900.0 FT)

| ROADWAY TYPE | DESIGN SPEED | FUNCTIONAL CLASSIFICATION |
|---|---|---|
| FREEWAY | 70 MPH | URBAN FREEWAY |
| RAMPS | 50 MPH | URBAN PRINCIPAL ARTERIAL |
| FRONTAGE ROADS | 45 MPH | URBAN MAJOR COLLECTOR |
| CROSS STREETS/LOCAL STREETS | 35 MPH | URBAN LOCAL STREET |
| FM 1788 | 55 MPH | URBAN PRINCIPAL ARTERIAL |
| SH349 | 45 MPH | URBAN PRINCIPAL ARTERIAL |
| LOOP 250 W | 55 MPH | URBAN PRINCIPAL ARTERIAL |
| LOOP 338 E | 55 MPH | URBAN PRINCIPAL ARTERIAL |

**TRAFFIC DATA**

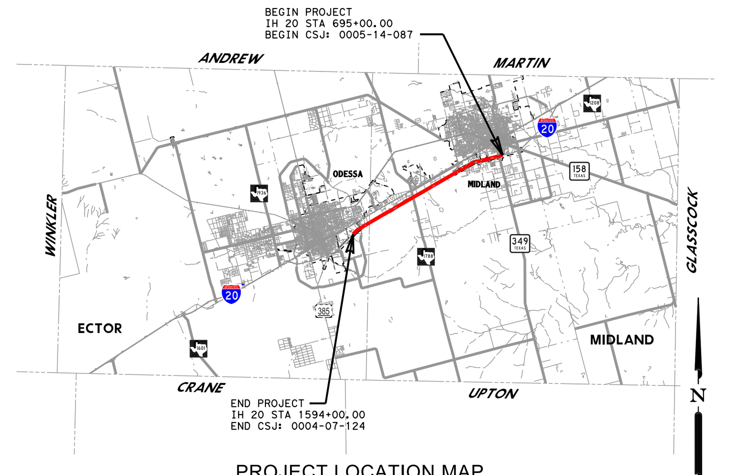
| TRAFFIC VOLUMES BASED ON YEAR 2042 PROJECTIONS APPROVED BY TXDOT TP&P DIVISION DATED $DATE$ | IH-20 FM 866 TO E LOOP 338 | IH-20 E LOOP 338 TO FM 1208 |
|---|---|---|
| DIRECTIONAL DISTRIBUTION | 52% | 52% |
| PERCENT TRUCKS OF DHV | 23.9% | 24.5% |
| K FACTOR | 9.1% | 9.1% |

**LEGEND:**

- GENERAL PURPOSE LANES (GP LANES)
- RAMPS
- FRONTAGE ROAD/CROSS STREETS
- PROPOSED RAMP GORE AREA
- PRELIMINARY STRUCTURE LIMITS
- PROPOSED BY OTHERS
- DISPLACED STRUCTURE
- DRIVEWAY
- SIDEWALK
- 100 YR FLOODPLAIN
- DIRECTION OF TRAFFIC
- DWBER338E — ALIGNMENT NAME
- DWBER338_1 — CURVE NO. LABEL
- PROPOSED RETAINING WALL
- METAL BEAM GUARD FENCE
- MAJOR KNOWN UTILITY
- EXISTING RIGHT-OF-WAY (R.O.W.)
- EXISTING CONTROL-OF-ACCESS (COA)
- PROPOSED RIGHT-OF-WAY (R.O.W.)
- PROPOSED CONTROL-OF-ACCESS (BY PERMIT)
- 08S-F1029E — PROPOSED SIGN NUMBER
- EXISTING PAVEMENT REMOVAL
- RIGHT-OF-WAY TAKE AREA
- PROPOSED DRAINAGE
- PROPOSED DRAINAGE EASEMENT
- EXISTING DRAINAGE
- EXISTING DITCH

**NOTES:**

1. AERIAL IMAGES SHOWN WERE OBTAINED FROM TEXAS DEPARTMENT OF TRANSPORTATION (SEPTEMBER 19, 2017) AND TNRIS (DATE OF AERIAL IMAGERY).
2. EXISTING TOPOGRAPHY SHOWN WAS PROVIDED BY THE TEXAS DEPARTMENT OF TRANSPORTATION ON JANUARY 10, 2018.
3. EXISTING RIGHT OF WAY SHOWN WAS DEVELOPED FROM EXISTING RIGHT OF WAY MAPS OBTAINED FROM TEXAS DEPARTMENT OF TRANSPORTATION ON OCTOBER 27, 2017.
4. SUPERELEVATION AXIS OF ROTATION IS ABOUT THE PGL.
5. APPROXIMATE 100 YEAR FLOODPLAIN LIMITS ARE BASED UPON FEMA FLOOD INSURANCE RATE MAPS (ECTOR COUNTY, REVISED MARCH 15, 2012 AND MIDLAND COUNTY, REVISED SEPTEMBER 16, 2005).
6. OWNERSHIP INFORMATION SHOWN ON SCHEMATIC OBTAINED FROM CITIES OF MIDLAND AND ODESSA, TEXAS (SEPTEMBER 6, 2017).
7. FINAL DRIVEWAY LOCATIONS SHALL BE DETERMINED DURING FINAL DESIGN
8. EXISTING UTILITIES SHOWN WERE OBTAINED FROM SUE SURVEY BY HALFF ASSOCIATES, INC. (JULY, 2018)




PROJECT LOCATION MAP
NTS

ROLL: 1 OF 15

**SHEET INDEX:**


ROLL 1: PLAN AND PROFILE-IH 20 STA 695+00 TO STA 700+00
ROLL 2: PLAN AND PROFILE-IH 20 STA 700+00 TO STA 789+00
ROLL 3: PLAN AND PROFILE-IH 20 STA 789+00 TO STA 860+00*
ROLL 4: PLAN AND PROFILE-IH 20 STA 860+00 TO STA 930+00*
ROLL 5: PLAN AND PROFILE-IH 20 STA 930+00 TO STA 1013+00
ROLL 6: PLAN AND PROFILE-IH 20 STA 1013+00 TO STA 1096+00*
ROLL 7: PLAN AND PROFILE-IH 20 STA 1096+00 TO STA 1183+00
ROLL 8: PLAN AND PROFILE-IH 20 STA 1183+00 TO STA 1250+00
ROLL 9: PLAN AND PROFILE-IH 20 STA 1250+00 TO STA 1330+00
ROLL 10: PLAN AND PROFILE-IH 20 STA 1330+00 TO STA 1415+00
ROLL 11: PLAN AND PROFILE-IH 20 STA 1415+00 TO STA 1495+00
ROLL 12: PLAN AND PROFILE-IH 20 STA 1495+00 TO STA 1580+00
ROLL 13: PLAN AND PROFILE-IH 20 STA 1580+00 TO STA 1594+00
ROLL 14: PROFILES-RAMPS, CROSS STREETS AND U-TURNS
ROLL 15: PROFILES-RAMPS, CROSS STREETS AND U-TURNS


* AREAS PROPOSED BY OTHERS:
STA 811+85 TO STA 877+05
STA 1022+78.87 TO STA 1063+70.67

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Firm Registration: F-2966

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| NAME | P.E. NO. | DATE |
|---|---|---|
| WILL BARRESI, P.E. | 90856 | 4/10/2020 |
| GRANT WU, P.E. | 89529 | 4/10/2020 |

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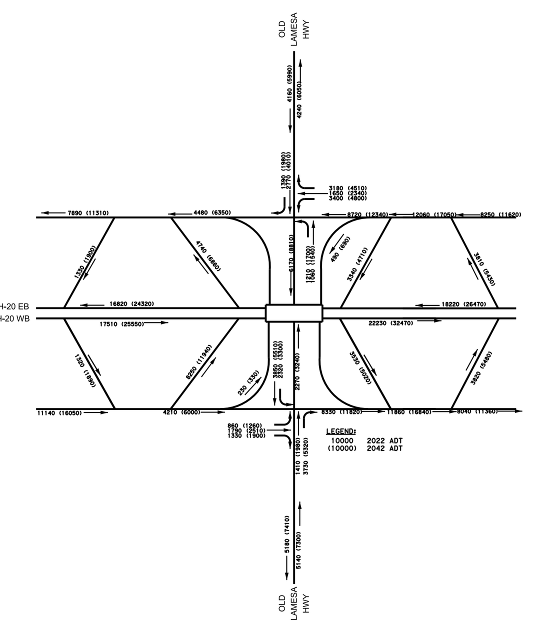
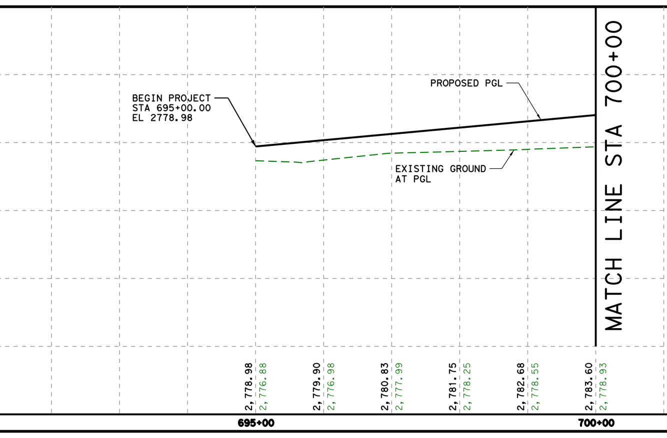



HWBXRLAM_INT

| CURVE NO. | P.I. STATION | P.I. STATION - N | P.I. STATION - E | DELTA | RADIUS | DEGREE | TANGENT | LENGTH | CHORD BEARING | CHORD LENGTH | P.C. STATION | P.T. STATION | BACK TANGENT | AHEAD TANGENT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HWBXRLAM_INT_1 | 4+91.34 | 10,685,700.54 | 1,757,972.38 | 7° 07′ 04.13" RT | 7,900.00′ | 0° 43′ 30.95" | 491.34′ | 981.41′ | S 79° 08′ 34.93" W | 980.78′ | 0+00.00 | 9+81.41 | S 75° 35′ 02.87" W | S 82° 42′ 07.00" W |

Horizontal : 1"=100'
Vertical : 1"=10'




IH-20


TEXAS DEPARTMENT OF TRANSPORTATION
ODESSA DISTRICT
DESIGN SCHEMATIC
JOHN R. SPEED, P.E., DISTRICT ENGINEER
ECTOR/MIDLAND COUNTY
IH 20
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RAMPS 50 MPH URBAN PRINCIPAL ARTERIAL
FRONTAGE ROADS 45 MPH URBAN MAJOR COLLECTOR
CROSS STREETS/LOCAL STREETS 35 MPH URBAN LOCAL STREET
FM 1788 55 MPH URBAN PRINCIPAL ARTERIAL
SH349 45 MPH URBAN PRINCIPAL ARTERIAL
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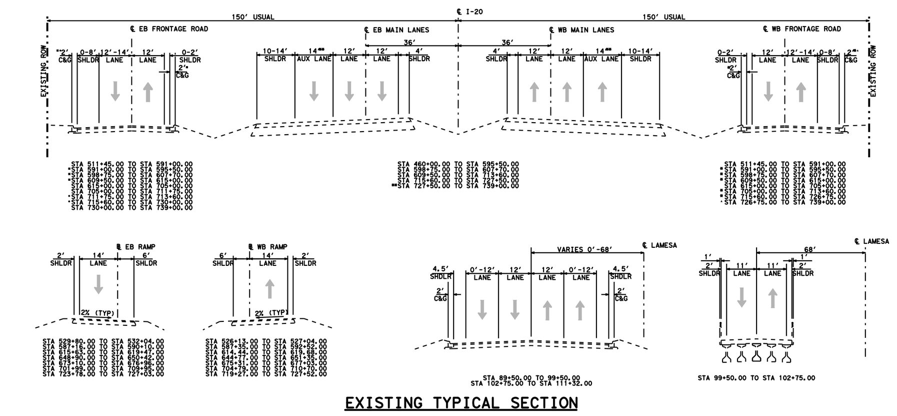
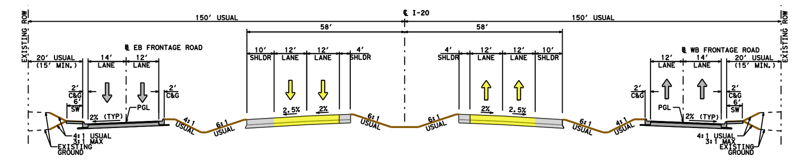
LOOP 338 E 55 MPH URBAN PRINCIPAL ARTERIAL


EXISTING TYPICAL SECTION




PROPOSED TYPICAL SECTION

ROLL: 1 OF 15

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WILL BARRESI, P.E. 90856 4/10/2020
GRANT WU, P.E. 89529 4/10/2020


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4/10/2020

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## ODESSA DISTRICT

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JOHN R. SPEED, P.E., DISTRICT ENGINEER
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IH 20

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PROJECT LENGTH = 17.03 MILES (89,900.0 FT)

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| ON/ OFF RAMPS | 55 MPH | URBAN PRINCIPAL ARTERIAL |
| SHAPE | 55 MPH | URBAN PRINCIPAL ARTERIAL |
| LOOP 338 W | 55 MPH | URBAN PRINCIPAL ARTERIAL |
| LOOP 338 E | 55 MPH | URBAN PRINCIPAL ARTERIAL |

**TRAFFIC DATA**

TRAFFIC VOLUMES BASED ON TRAFFIC STUDY PERFORMED BY PARSONS BRINCKERHOFF DATED MARCH 2017

| | SH 349 TO E LOOP 338 | E LOOP 338 TO FM 1208 |
|---|---|---|
| DATED MONTHS | FM 866 TO E LOOP 338 | E LOOP 338 TO FM 1208 |
| DIRECTIONAL DISTRIBUTION | 52% | 52% |
| PERCENT TRUCKS OF DHV | 23.9% | 24.5% |
| K FACTOR | 9.1% | 9.1% |

**LEGEND:**

- GENERAL PURPOSE LANES (GP LANES)
- RAMPS
- FRONTAGE ROAD/CROSS STREETS
- PROPOSED RAMP GORE AREA
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- ALIGNMENT NAME
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- PROPOSED RETAINING WALL
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- EXISTING CONTROL-OF-ACCESS (COA)
- PROPOSED RIGHT-OF-WAY (R.O.W.)
- PROPOSED CONTROL-OF-ACCESS (C-O-A)
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- PROPOSED DRAINAGE EASEMENT
- EXISTING DRAINAGE
- EXISTING DITCH

**NOTES:**

1. AERIAL IMAGES SHOWN WERE OBTAINED FROM TEXAS DEPARTMENT OF TRANSPORTATION (SEPTEMBER 16, 2017) AND PARTS SHOWN BY AERIAL IMAGERY.
2. EXISTING TOPOGRAPHY WAS OBTAINED FROM TEXAS DEPARTMENT OF TRANSPORTATION ON JANUARY 15, 2016.
3. EXISTING RIGHT-OF-WAY SHOWN WAS DEVELOPED FROM EXISTING RIGHT OF WAY MAPS OBTAINED FROM TEXAS DEPARTMENT OF TRANSPORTATION ON OCTOBER 27, 2016.
4. SUPERELEVATION AXIS OF ROTATION IS ABOUT THE POL.
5. APPROXIMATE 100 YEAR FLOODPLAIN LIMITS WERE BASED UPON FEMA FLOOD INSURANCE RATE MAPS SECTION COUNTY, REVISED MARCH 19, 2012 AND MIDLAND COUNTY, REVISED SEPTEMBER 16, 2009.
6. PROPOSED DRAINAGE FACILITIES SHOWN ON SCHEMATIC OBTAINED FROM CITIES OF MIDLAND AND ODESSA, DRAINAGE DESIGN MANUAL.
7. FINAL DRIVEWAY LOCATIONS SHALL BE DETERMINED DURING FINAL DESIGN
8. EXISTING UTILITIES SHOWN WERE OBTAINED FROM SUE SURVEY BY HALFF ASSOCIATES, INC. (JUL7, 2016)

BEGIN PROJECT
IH 20 STA 699+00.00
BEGIN CSJ 0005-13-060

END PROJECT
IH 20 STA 1000+00.00
END CSJ 0005-13-094

PROJECT LOCATION MAP
NTS

ROLL: 2 OF 15

SHEET INDEX:


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3 - SCHEMATIC
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5 - SCHEMATIC
6 - SCHEMATIC
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9 - SCHEMATIC
10 - SCHEMATIC
11 - SCHEMATIC
12 - SCHEMATIC
13 - SCHEMATIC
14 - SCHEMATIC
15 - SCHEMATIC


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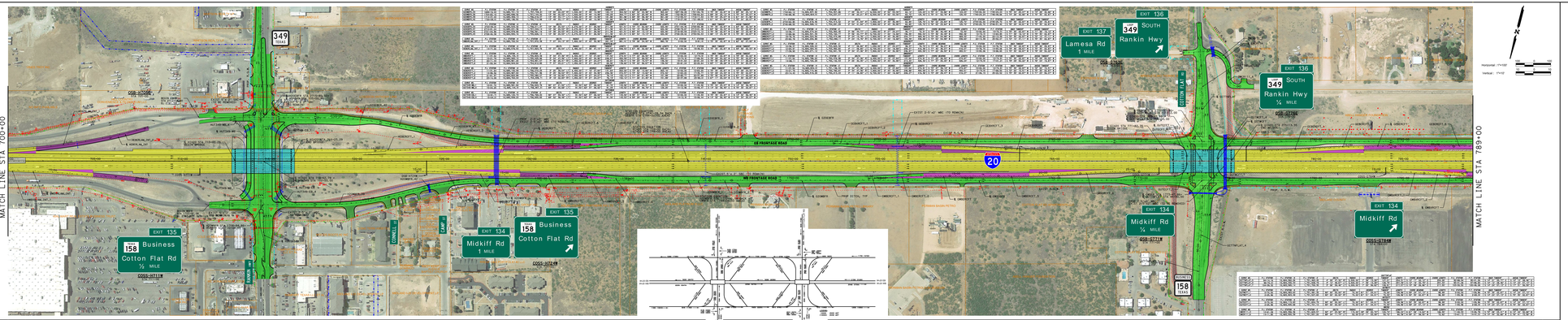




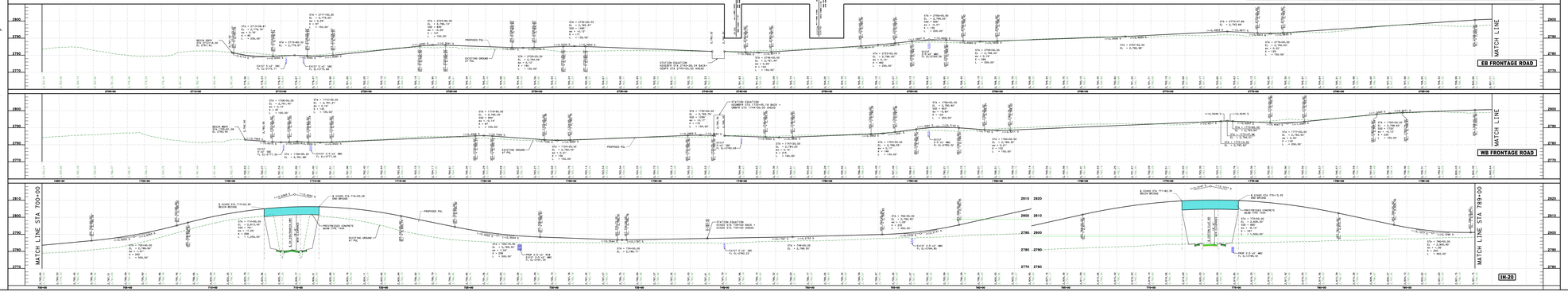


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DESIGN SCHEMATIC
JOHN R. SPEED, P.E., DISTRICT ENGINEER
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PROJECT LENGTH = 17.03 MILES (89,900.0 FT)

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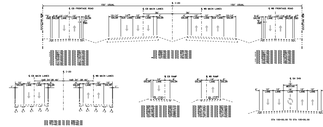
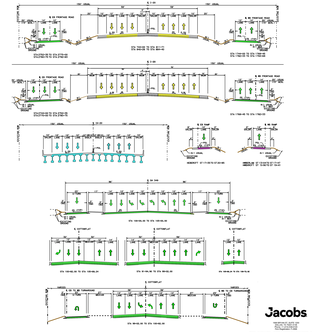


EXISTING TYPICAL SECTION



PROPOSED TYPICAL SECTION

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PRELIMINARY FOR SYSTEM REVIEW ONLY

ROLL: 2 OF 15

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### LEGEND:

| Symbol | Description | Symbol | Description |
|---|---|---|---|
| | GENERAL PURPOSE LANES (GP LANES) | → | DIRECTION OF TRAFFIC |
| | RAMPS | DWBER338E | ALIGNMENT NAME |
| | FRONTAGE ROAD/CROSS STREETS | DWBER338_1 | CURVE NO. LABEL |
| | PROPOSED RAMP GORE AREA | | PROPOSED RETAINING WALL |
| | PRELIMINARY STRUCTURE LIMITS | | METAL BEAM GUARD FENCE |
| | PROPOSED BY OTHERS | | MAJOR KNOWN UTILITY |
| | DISPLACED STRUCTURE | | EXISTING RIGHT-OF-WAY (R.O.W.) |
| | DRIVEWAY | | EXISTING CONTROL-OF-ACCESS (COA) |
| | SIDEWALK | | PROPOSED RIGHT-OF-WAY (R.O.W.) |
| | 100 YR FLOODPLAIN | | PROPOSED CONTROL-OF-ACCESS (BY PERMIT) |
| | | OBS-F1029E | PROPOSED SIGN NUMBER |
| | | | EXISTING PAVEMENT REMOVAL |
| | | | RIGHT-OF-WAY TAKE AREA |
| | | | PROPOSED DRAINAGE |
| | | | PROPOSED DRAINAGE EASEMENT |
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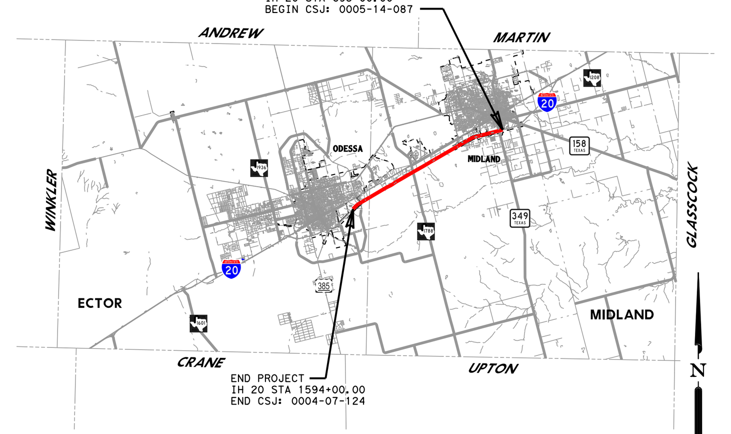


PROJECT LOCATION MAP
NTS

ROLL: 3 OF 15

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| GRANT WU, P.E. | 89529 | 4/10/2020 |

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GIH20

| CURVE NO. | P.I. STATION | P.I. STATION - N | P.I. STATION - E | DELTA | RADIUS | DEGREE | TANGENT | LENGTH | CHORD BEARING | CHORD LENGTH | P.C. STATION | P.T. STATION | BACK TANGENT | AHEAD TANGENT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GIH20_7 | 858+63.16 | 10,681,887.14 | 1,743,344.69 | 15° 52' 30.00" LT | 11,500.00' | 0° 29' 53.61" | 1,603.43' | 3,186.32' | S 67° 38' 47.73" W | 3,176.13' | 842+59.73 | 874+46.05 | S 75° 35' 02.73" W | S 59° 42' 32.73" W |
| GIH20EB_7 | 858+58.14 | 10,681,853.52 | 1,743,358.52 | 15° 52' 30.00" LT | 11,464.00' | 0° 29' 59.24" | 1,598.41' | 3,176.34' | S 67° 38' 47.73" W | 3,166.19' | 842+59.73 | 874+36.07 | S 75° 35' 02.73" W | S 59° 42' 32.73" W |
| GIH20WB_7 | 858+68.18 | 10,681,920.75 | 1,743,330.87 | 15° 52' 30.00" LT | 11,536.00' | 0° 29' 48.01" | 1,608.45' | 3,196.29' | S 67° 38' 47.73" W | 3,186.08' | 842+59.73 | 874+56.02 | S 75° 35' 02.73" W | S 59° 42' 32.73" W |

GWBFR

| CURVE NO. | P.I. STATION | P.I. STATION - N | P.I. STATION - E | DELTA | RADIUS | DEGREE | TANGENT | LENGTH | CHORD BEARING | CHORD LENGTH | P.C. STATION | P.T. STATION | BACK TANGENT | AHEAD TANGENT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| G20WBFR_9 | 1811+78.19 | 10,683,160.04 | 1,747,854.78 | 1° 34' 17.44" RT | 7,900.00' | 0° 43' 30.95" | 108.35' | 216.68' | S 76° 22' 11.45" W | 216.67' | 1810+69.85 | 1812+86.53 | S 75° 35' 02.73" W | S 77° 09' 20.16" W |
| G20WBFR_10 | 1815+42.81 | 10,683,078.98 | 1,747,499.27 | 1° 34' 17.44" LT | 18,686.83' | 0° 18' 23.80" | 256.29' | 512.54' | S 76° 22' 11.45" W | 512.53' | 1812+86.53 | 1817+99.07 | S 77° 09' 20.16" W | S 75° 35' 02.73" W |
| G20WBFR_13 | 1858+54.41 | 10,682,005.56 | 1,743,323.40 | 15° 52' 29.97" LT | 12,350.00' | 0° 27' 50.16" | 1,721.94' | 3,421.83' | S 67° 38' 47.71" W | 3,410.89' | 1841+32.46 | 1875+54.29 | S 75° 35' 02.70" W | S 59° 42' 32.73" W |

GEBFR

| CURVE NO. | P.I. STATION | P.I. STATION - N | P.I. STATION - E | DELTA | RADIUS | DEGREE | TANGENT | LENGTH | CHORD BEARING | CHORD LENGTH | P.C. STATION | P.T. STATION | BACK TANGENT | AHEAD TANGENT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| G20EBFR_9 | 2814+57.95 | 10,682,875.38 | 1,747,639.09 | 1° 47' 21.38" LT | 1,800.00' | 3° 10' 59.16" | 28.11' | 56.21' | S 74° 41' 22.04" W | 56.21' | 2814+29.85 | 2814+86.06 | S 75° 35' 02.73" W | S 73° 47' 41.35" W |
| G20EBFR_12 | 2817+14.17 | 10,682,803.88 | 1,747,393.05 | 1° 47' 21.38" RT | 1,800.00' | 3° 10' 59.16" | 28.11' | 56.21' | S 74° 41' 22.04" W | 56.21' | 2816+86.06 | 2817+42.27 | S 73° 47' 41.35" W | S 75° 35' 02.73" W |
| G20EBFR_17 | 2858+75.80 | 10,681,767.80 | 1,743,362.45 | 15° 52' 30.00" LT | 10,800.00' | 0° 31' 49.86" | 1,505.83' | 2,992.37' | S 67° 38' 47.73" W | 2,982.80' | 2843+69.97 | 2873+62.34 | S 75° 35' 02.73" W | S 59° 42' 32.73" W |

GWBXRCFT

| CURVE NO. | P.I. STATION | P.I. STATION - N | P.I. STATION - E | DELTA | RADIUS | DEGREE | TANGENT | LENGTH | CHORD BEARING | CHORD LENGTH | P.C. STATION | P.T. STATION | BACK TANGENT | AHEAD TANGENT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GWBXRCFT_2 | 14+88.11 | 10,683,720.29 | 1,750,132.53 | 3° 05' 30.35" LT | 7,900.00' | 0° 43' 30.95" | 213.20' | 426.30' | S 77° 37' 05.05" W | 426.24' | 12+74.91 | 17+01.21 | S 79° 09' 50.22" W | S 76° 04' 19.87" W |
| GWBXRCFT_3 | 18+76.26 | 10,683,626.84 | 1,749,755.69 | 3° 31' 05.21" RT | 5,700.00' | 1° 00' 18.68" | 175.05' | 350.00' | S 77° 49' 52.47" W | 349.94' | 17+01.21 | 20+51.20 | S 76° 04' 19.87" W | S 79° 35' 25.08" W |
| GWBXRCFT_4 | 20+87.92 | 10,683,588.57 | 1,749,547.40 | 4° 00' 22.21" LT | 1,050.00' | 5° 27' 24.27" | 36.72' | 73.42' | S 77° 35' 13.97" W | 73.40' | 20+51.20 | 21+24.62 | S 79° 35' 25.08" W | S 75° 35' 02.87" W |

SUPERELEVATION TRANSITION TABLE

| ALIGNMENT | BEGIN STATION | BEGIN CROSS SLOPE | END STATION | END CROSS SLOPE |
|---|---|---|---|---|
| GIH20WB (RIGHT) | 840+460.00 | -2.00% | 843+00.00 | 2.00% |
| GIH20WB (RIGHT) | 874+00.00 | 2.00% | 876+40.00 | -2.00% |
| GIH20WB (LEFT) | 840+60.00 | -2.00% | 843+00.00 | 2.00% |
| GIH20WB (LEFT) | 874+00.00 | 2.00% | 876+40.00 | -2.00% |

GEBERCFT

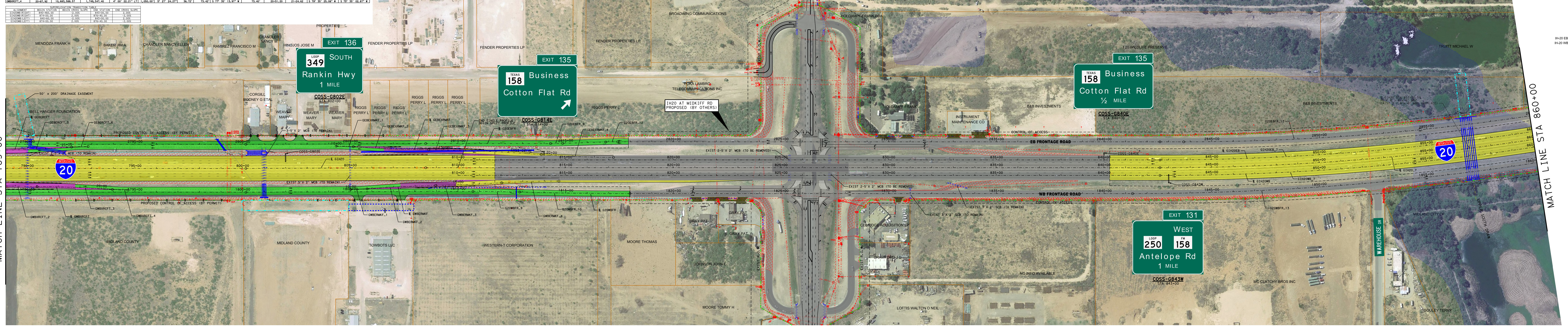
| CURVE NO. | P.I. STATION | P.I. STATION - N | P.I. STATION - E | DELTA | RADIUS | DEGREE | TANGENT | LENGTH | CHORD BEARING | CHORD LENGTH | P.C. STATION | P.T. STATION | BACK TANGENT | AHEAD TANGENT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GEBERCFT_5 | 23+14.43 | 10,683,518.28 | 1,750,013.03 | 4° 11' 06.80" LT | 5,700.00' | 1° 00' 18.68" | 208.27' | 416.36' | S 73° 29' 29.47" W | 416.27' | 21+06.15 | 25+22.52 | S 75° 35' 02.87" W | S 71° 23' 56.07" W |
| GEBERCFT_6 | 25+60.88 | 10,683,439.61 | 1,749,779.27 | 4° 11' 06.80" RT | 1,050.00' | 5° 27' 24.27" | 38.37' | 76.70' | S 73° 29' 29.47" W | 76.68' | 25+22.52 | 25+99.21 | S 71° 23' 56.07" W | S 75° 35' 02.87" W |

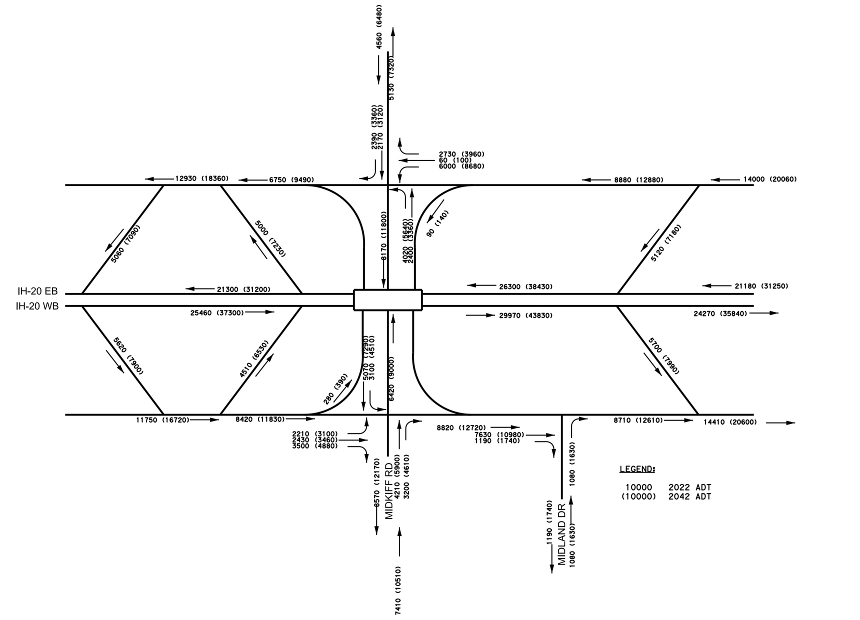
GWBWEMKF

| CURVE NO. | P.I. STATION | P.I. STATION - N | P.I. STATION - E | DELTA | RADIUS | DEGREE | TANGENT | LENGTH | CHORD BEARING | CHORD LENGTH | P.C. STATION | P.T. STATION | BACK TANGENT | AHEAD TANGENT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GWBERMKF_1 | 10+38.38 | 10,683,310.53 | 1,748,474.92 | 4° 11' 12.97" LT | 1,050.00' | 5° 27' 24.27" | 38.38' | 76.73' | S 73° 14' 26.24" W | 76.71' | 10+00.00 | 10+76.73 | S 75° 20' 02.73" W | S 71° 08' 49.75" W |
| GWBERMKF_2 | 12+35.98 | 10,683,246.66 | 1,748,287.89 | 3° 12' 02.50" RT | 5,700.00' | 1° 00' 18.68" | 159.25' | 318.42' | S 72° 44' 51.00" W | 318.38' | 10+76.73 | 13+95.15 | S 71° 08' 49.75" W | S 74° 20' 52.25" W |
| GWBERMKF_3 | 15+48.73 | 10,683,162.26 | 1,747,986.66 | 2° 13' 39.05" LT | 7,900.00' | 0° 43' 30.95" | 153.59' | 307.13' | S 73° 14' 02.73" W | 307.11' | 13+95.15 | 17+02.28 | S 74° 20' 52.25" W | S 72° 07' 13.20" W |
| GWBERMKF_4 | 18+35.32 | 10,683,074.26 | 1,747,713.88 | 3° 27' 49.53" RT | 4,400.00' | 1° 18' 07.84" | 133.04' | 266.00' | S 73° 51' 07.96" W | 265.96' | 17+02.28 | 19+68.28 | S 72° 07' 13.20" W | S 75° 35' 02.73" W |

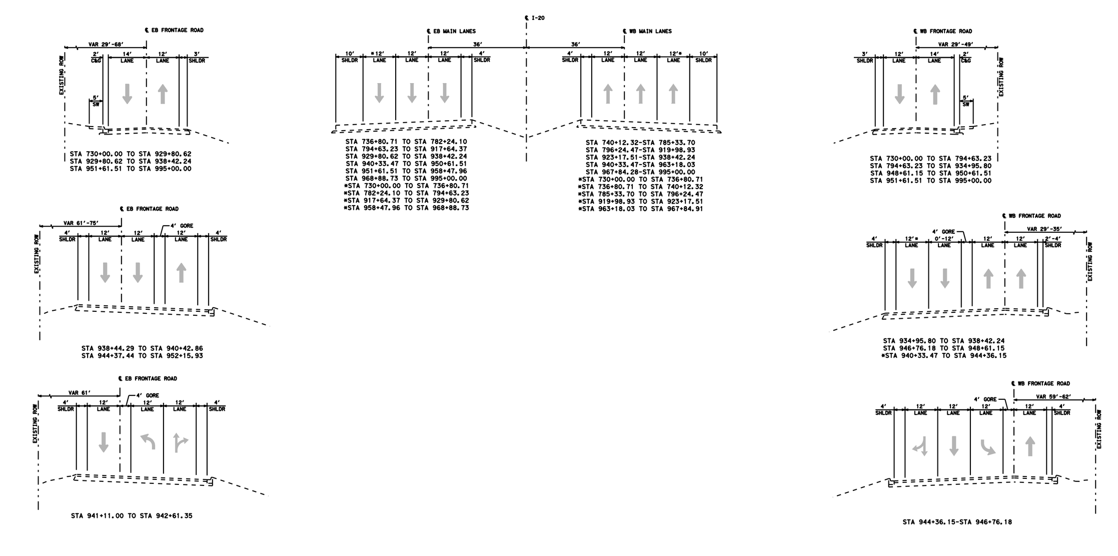
GEBXRMKF

| CURVE NO. | P.I. STATION | P.I. STATION - N | P.I. STATION - E | DELTA | RADIUS | DEGREE | TANGENT | LENGTH | CHORD BEARING | CHORD LENGTH | P.C. STATION | P.T. STATION | BACK TANGENT | AHEAD TANGENT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GEBXRMKF_1 | 10+39.82 | 10,683,131.47 | 1,748,588.57 | 4° 20' 37.20" RT | 1,050.00' | 5° 27' 24.27" | 39.82' | 79.60' | S 77° 30' 21.33" W | 79.58' | 10+00.00 | 10+79.60 | S 75° 20' 02.73" W | S 79° 40' 39.92" W |
| GEBXRMKF_2 | 12+55.00 | 10,683,092.90 | 1,748,376.83 | 3° 31' 30.26" LT | 5,700.00' | 1° 00' 18.68" | 175.40' | 350.69' | S 77° 54' 54.79" W | 350.63' | 10+79.60 | 14+30.29 | S 79° 40' 39.92" W | S 76° 09' 09.66" W |
| GEBXRMKF_3 | 16+91.98 | 10,682,988.29 | 1,747,952.45 | 3° 47' 40.04" RT | 7,900.00' | 0° 43' 30.95" | 261.69' | 523.18' | S 78° 02' 59.68" W | 523.09' | 14+30.29 | 19+53.47 | S 76° 09' 09.66" W | S 79° 56' 49.70" W |
| GEBXRMKF_4 | 21+21.08 | 10,682,913.35 | 1,747,529.74 | 4° 21' 46.98" LT | 4,400.00' | 1° 18' 07.84" | 167.61' | 335.06' | S 77° 45' 56.21" W | 334.98' | 19+53.47 | 22+88.53 | S 79° 56' 49.70" W | S 75° 35' 02.73" W |

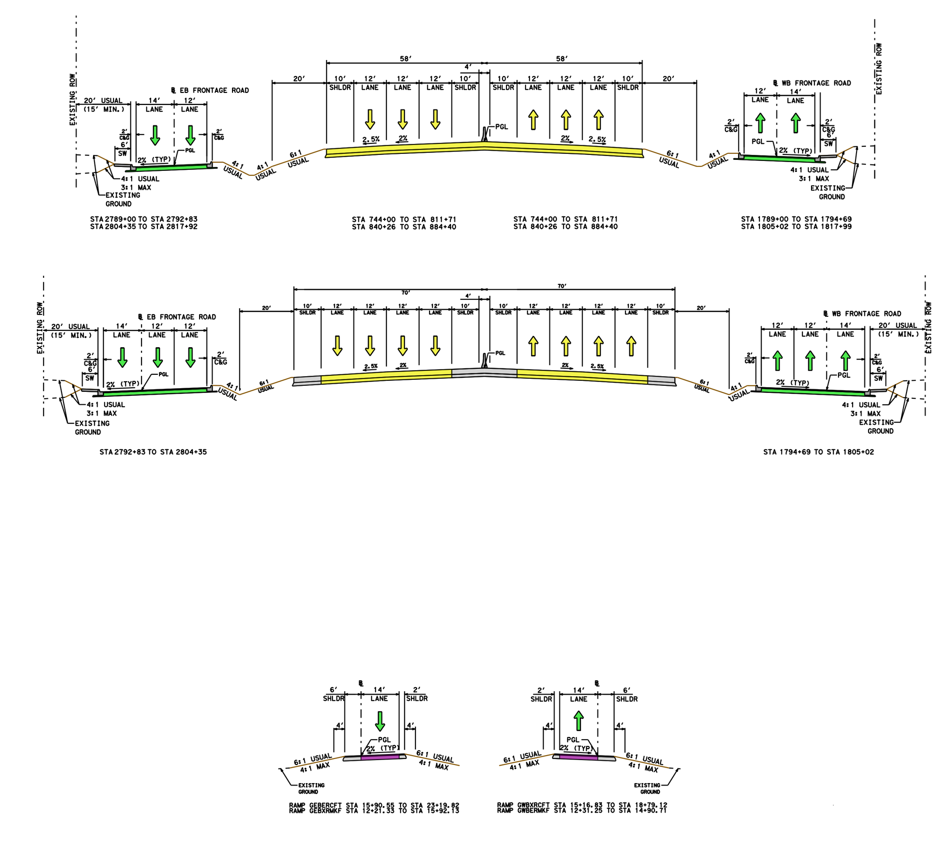



Horizontal : 1"=100'
Vertical : 1"=10'



EXISTING TYPICAL SECTION



PROPOSED TYPICAL SECTION

ROLL: 3 OF 15

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| NAME | P.E. NO. | DATE |
|---|---|---|
| WILL BARRESI, P.E. | 90856 | 4/10/2020 |
| GRANT WU, P.E. | 89529 | 4/10/2020 |

# TEXAS DEPARTMENT OF TRANSPORTATION
## ODESSA DISTRICT

DESIGN SCHEMATIC
JOHN R. SPEED, P.E., DISTRICT ENGINEER
ECTOR/MIDLAND COUNTY
IH 20

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PROJECT LIMIT: FROM EAST OF SH349 TO EAST OF JBS PKWY

CONTROL: 0005-13-060, 0005-14-086, 0005-14-087, 0005-14-092, 0005-13-064, 0005-14-093, 0005-14-094

PROJECT LENGTH = 17.03 MILES (89,900.0 FT)

| ROADWAY TYPE | DESIGN SPEED | FUNCTIONAL CLASSIFICATION |
|---|---|---|
| FREEWAY | 70 MPH | URBAN FREEWAY |
| RAMPS | 50 MPH | URBAN PRINCIPAL ARTERIAL |
| FRONTAGE ROADS | 45 MPH | URBAN MAJOR COLLECTOR |
| CROSS STREETS/LOCAL STREETS | 35 MPH | URBAN LOCAL STREET |
| FM 1788 | 55 MPH | URBAN PRINCIPAL ARTERIAL |
| SH349 | 45 MPH | URBAN PRINCIPAL ARTERIAL |
| LOOP 250 W | 55 MPH | URBAN PRINCIPAL ARTERIAL |
| LOOP 338 E | 55 MPH | URBAN PRINCIPAL ARTERIAL |

**TRAFFIC DATA**

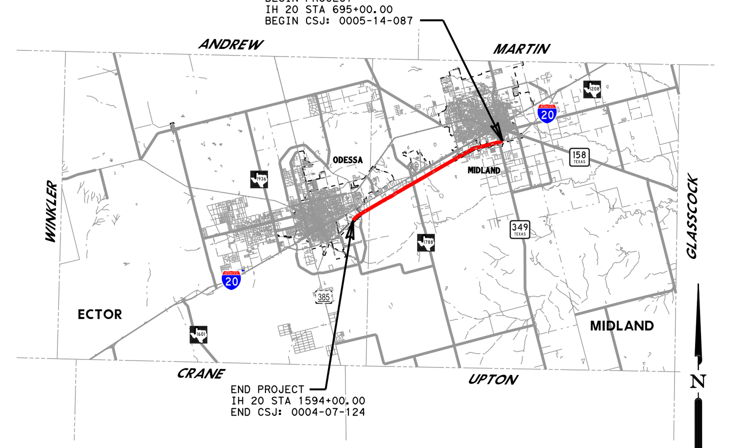
| TRAFFIC VOLUMES BASED ON YEAR 2042 PROJECTIONS APPROVED BY TXDOT TP&P DIVISION DATED $DATE$ | IH-20 FM 866 TO E LOOP 338 | IH-20 E LOOP 338 TO FM 1208 |
|---|---|---|
| DIRECTIONAL DISTRIBUTION | 52% | 52% |
| PERCENT TRUCKS OF DHV | 23.9% | 24.5% |
| K FACTOR | 9.1% | 9.1% |

**LEGEND:**

| | |
|---|---|
| GENERAL PURPOSE LANES (GP LANES) | DIRECTION OF TRAFFIC |
| RAMPS | DWBER338E ALIGNMENT NAME |
| FRONTAGE ROAD/CROSS STREETS | DWBER338_1 CURVE NO. LABEL |
| PROPOSED RAMP GORE AREA | PROPOSED RETAINING WALL |
| PRELIMINARY STRUCTURE LIMITS | METAL BEAM GUARD FENCE |
| PROPOSED BY OTHERS | MAJOR KNOWN UTILITY |
| DISPLACED STRUCTURE | EXISTING RIGHT-OF-WAY (R.O.W.) |
| DRIVEWAY | EXISTING CONTROL-OF-ACCESS (COA) |
| SIDEWALK | PROPOSED RIGHT-OF-WAY (R.O.W.) |
| 100 YR FLOODPLAIN | PROPOSED CONTROL-OF-ACCESS (BY PERMIT) |
| | OBS-F1029E PROPOSED SIGN NUMBER |
| | EXISTING PAVEMENT REMOVAL |
| | RIGHT-OF-WAY TAKE AREA |
| | PROPOSED DRAINAGE |
| | PROPOSED DRAINAGE EASEMENT |
| | EXISTING DRAINAGE |
| | EXISTING DITCH |

**NOTES:**

1. AERIAL IMAGES SHOWN WERE OBTAINED FROM TEXAS DEPARTMENT OF TRANSPORTATION (SEPTEMBER 19, 2017) AND TNRIS (DATE OF AERIAL IMAGERY).
2. EXISTING TOPOGRAPHY SHOWN WAS PROVIDED BY THE TEXAS DEPARTMENT OF TRANSPORTATION ON JANUARY 10, 2018.
3. EXISTING RIGHT OF WAY SHOWN WAS DEVELOPED FROM EXISTING RIGHT OF WAY MAPS OBTAINED FROM TEXAS DEPARTMENT OF TRANSPORTATION ON OCTOBER 27, 2017.
4. SUPERELEVATION AXIS OF ROTATION IS ABOUT THE PGL.
5. APPROXIMATE 100 YEAR FLOODPLAIN LIMITS ARE BASED UPON FEMA FLOOD INSURANCE RATE MAPS (ECTOR COUNTY, REVISED MARCH 15, 2012 AND MIDLAND COUNTY, REVISED SEPTEMBER 16, 2005).
6. OWNERSHIP INFORMATION SHOWN ON SCHEMATIC OBTAINED FROM CITIES OF MIDLAND AND ODESSA, TEXAS (SEPTEMBER 6, 2017).
7. FINAL DRIVEWAY LOCATIONS SHALL BE DETERMINED DURING FINAL DESIGN
8. EXISTING UTILITIES SHOWN WERE OBTAINED FROM SUE SURVEY BY HALFF ASSOCIATES, INC. (JULY, 2018)




PROJECT LOCATION MAP
NTS

ROLL: 4 OF 15

**SHEET INDEX:**


ROLL 1: PLAN AND PROFILE-IH 20 STA 695+00 TO STA 700+00
ROLL 2: PLAN AND PROFILE-IH 20 STA 700+00 TO STA 789+00
ROLL 3: PLAN AND PROFILE-IH 20 STA 789+00 TO STA 860+00*
ROLL 4: PLAN AND PROFILE-IH 20 STA 860+00 TO STA 930+00*
ROLL 5: PLAN AND PROFILE-IH 20 STA 930+00 TO STA 1013+00
ROLL 6: PLAN AND PROFILE-IH 20 STA 1013+00 TO STA 1096+00*
ROLL 7: PLAN AND PROFILE-IH 20 STA 1096+00 TO STA 1183+00
ROLL 8: PLAN AND PROFILE-IH 20 STA 1183+00 TO STA 1250+00
ROLL 9: PLAN AND PROFILE-IH 20 STA 1250+00 TO STA 1330+00
ROLL 10: PLAN AND PROFILE-IH 20 STA 1330+00 TO STA 1415+00
ROLL 11: PLAN AND PROFILE-IH 20 STA 1415+00 TO STA 1495+00
ROLL 12: PLAN AND PROFILE-IH 20 STA 1495+00 TO STA 1580+00
ROLL 13: PLAN AND PROFILE-IH 20 STA 1580+00 TO STA 1594+00
ROLL 14: PROFILES-RAMPS, CROSS STREETS AND U-TURNS
ROLL 15: PROFILES-RAMPS, CROSS STREETS AND U-TURNS


* AREAS PROPOSED BY OTHERS:
STA 811+85 TO STA 877+05
STA 1022+78.87 TO STA 1063+70.67

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Firm Registration: F-2966

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| NAME | P.E. NO. | DATE |
|---|---|---|
| WILL BARRESI, P.E. | 90856 | 4/10/2020 |
| GRANT WU, P.E. | 89529 | 4/10/2020 |

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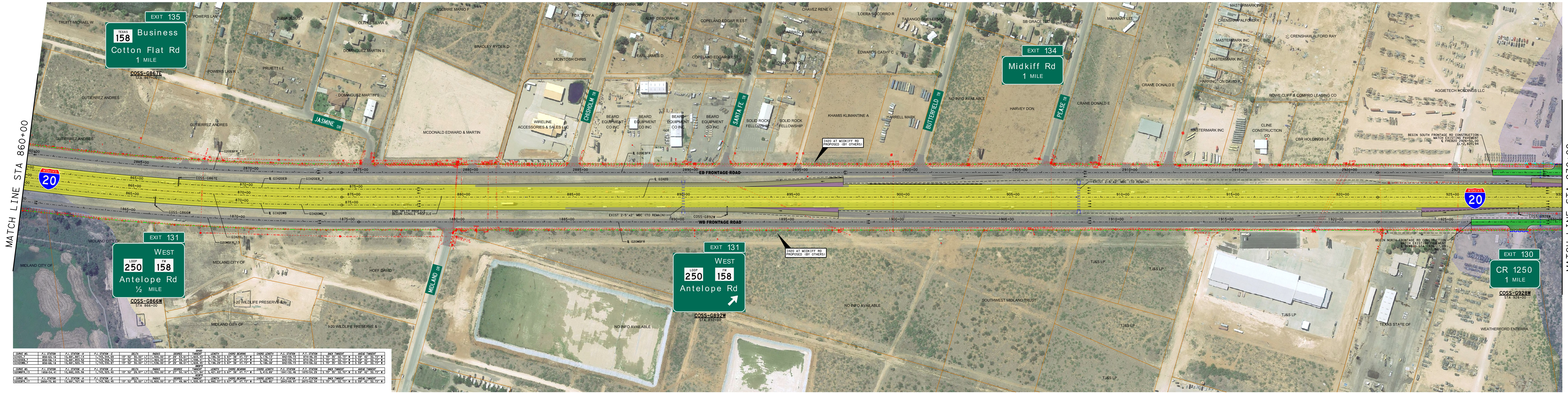
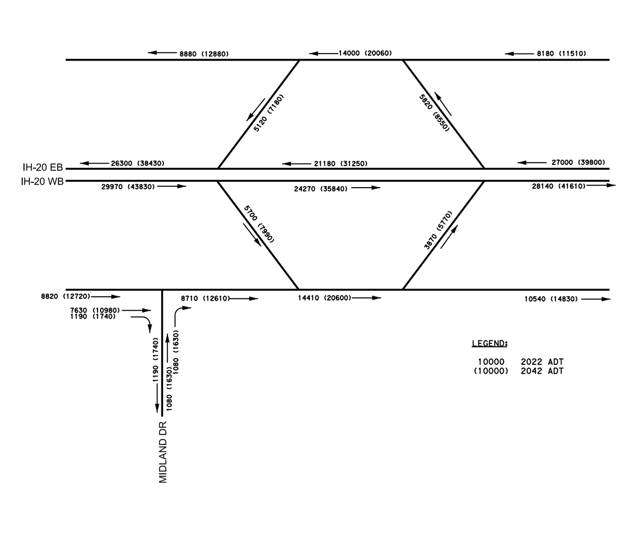
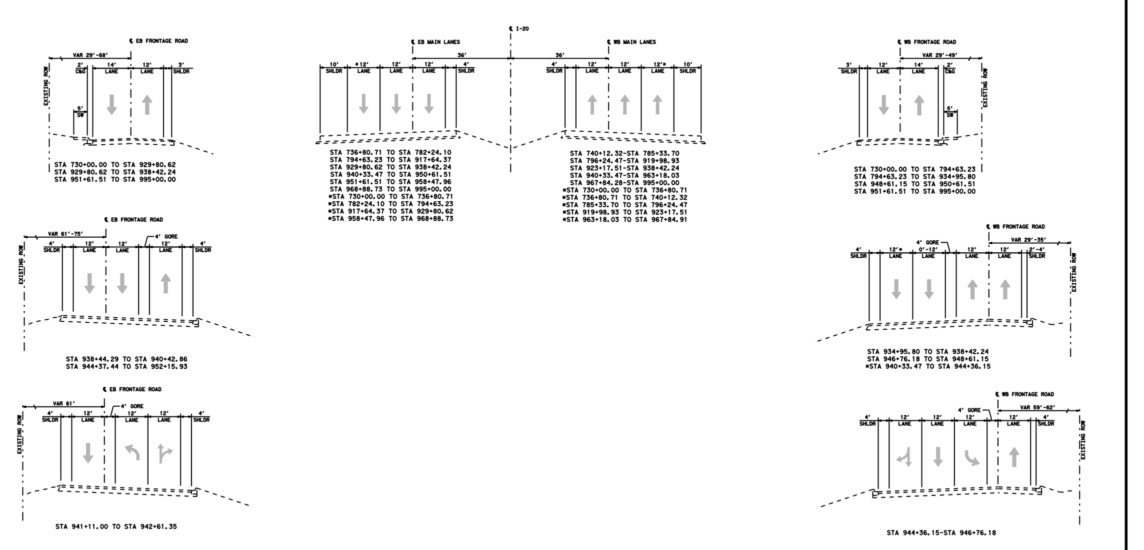



| CURVE NO. | P.I. STATION | P.I. STATION - N | P.I. STATION - E | DELTA | RADIUS | DEGREE | TANGENT | LENGTH | CHORD BEARING | CHORD LENGTH | P.C. STATION | P.T. STATION | BACK TANGENT | AHEAD TANGENT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GIH20 | | | | | | | | | | | | | | |
| GIH20_7 | 858+63.16 | 10,681,887.14 | 1,743,344.69 | 15° 52' 30.00" LT | 11,500.00' | 0° 29' 53.61" | 1,603.43' | 3,186.32' | S 67° 38' 47.73" W | 3,176.13' | 842+59.73 | 874+46.05 | S 75° 35' 02.73" W | S 59° 42' 32.73" W |
| GIH20EB_7 | 858+58.14 | 10,681,853.52 | 1,743,358.52 | 15° 52' 30.00" LT | 11,464.00' | 0° 29' 59.24" | 1,598.41' | 3,176.34' | S 67° 38' 47.73" W | 3,166.19' | 842+59.73 | 874+36.07 | S 75° 35' 02.73" W | S 59° 42' 32.73" W |
| GIH20WB_7 | 858+68.18 | 10,681,920.75 | 1,743,330.87 | 15° 52' 30.00" LT | 11,536.00' | 0° 29' 48.01" | 1,608.45' | 3,196.29' | S 67° 38' 47.73" W | 3,186.08' | 842+59.73 | 874+56.02 | S 75° 35' 02.73" W | S 59° 42' 32.73" W |
| GWBFR | | | | | | | | | | | | | | |
| G20WBFR_13 | 1858+54.41 | 10,682,005.56 | 1,743,323.40 | 15° 52' 29.97" LT | 12,350.00' | 0° 27' 50.16" | 1,721.94' | 3,421.83' | S 67° 38' 47.71" W | 3,410.89' | 1841+32.46 | 1875+54.29 | S 75° 35' 02.70" W | S 59° 42' 32.73" W |
| GEBFR | | | | | | | | | | | | | | |
| G20EBFR_17 | 2858+75.80 | 10,681,767.80 | 1,743,362.45 | 15° 52' 30.00" LT | 10,800.00' | 0° 31' 49.86" | 1,505.83' | 2,992.37' | S 67° 38' 47.73" W | 2,982.80' | 2843+69.97 | 2873+62.34 | S 75° 35' 02.73" W | S 59° 42' 32.73" W |

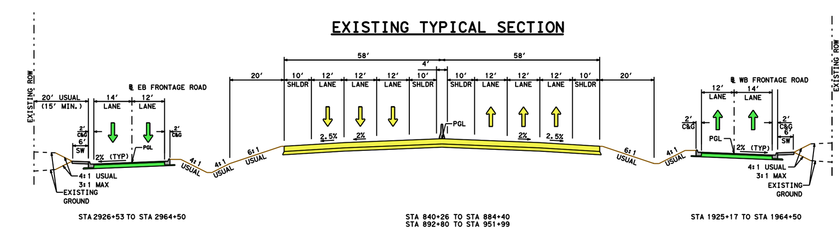
Horizontal: 1"=100'
Vertical: 1"=10'



TEXAS DEPARTMENT OF TRANSPORTATION
ODESSA DISTRICT
DESIGN SCHEMATIC
JOHN R. SPEED, P.E., DISTRICT ENGINEER
ECTOR/MIDLAND COUNTY
IH 20
PROJECT LIMIT: FROM EAST OF SH349 TO EAST OF JBS PKWY
CONTROL: 0005-13-060, 0005-14-086, 0005-14-087, 0005-14-092, 0005-13-064, 0005-14-093, 0005-14-094
PROJECT LENGTH = 17.03 MILES (89,900.0 FT)



EXISTING TYPICAL SECTION



PROPOSED TYPICAL SECTION

ROLL: 4 OF 15

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# TEXAS DEPARTMENT OF TRANSPORTATION
## ODESSA DISTRICT

DESIGN SCHEMATIC
JOHN R. SPEED, P.E., DISTRICT ENGINEER
ECTOR/MIDLAND COUNTY
IH 20

PROJECT LIMIT: FROM EAST OF SH349 TO EAST OF JBS PKWY

CONTROL: 0005-13-060, 0005-14-086, 0005-14-087, 0005-14-092, 0005-13-064, 0005-14-093, 0005-14-094

PROJECT LENGTH = 17.03 MILES (89,900.0 FT)

| ROADWAY TYPE | DESIGN SPEED | FUNCTIONAL CLASSIFICATION |
|---|---|---|
| FREEWAY | 65 MPH | URBAN FREEWAY |
| FRONTAGE ROADS | 55 MPH | URBAN PRINCIPAL ARTERIAL |
| RAMP/CONNECTORS/LOCAL STREETS | 55 MPH | URBAN LOCAL STREET |
| CR/TWO WAY | 55 MPH | URBAN PRINCIPAL ARTERIAL |
| SH349 | 55 MPH | URBAN PRINCIPAL ARTERIAL |
| LOOP 338 E | 55 MPH | URBAN PRINCIPAL ARTERIAL |
| LOOP 338 W | 55 MPH | URBAN PRINCIPAL ARTERIAL |

**TRAFFIC DATA**

TRAFFIC VOLUMES BASED ON TRAFFIC SURVEYS PERFORMED BY: JACOBS
PROJECTED AADT FOR YEAR: 2042
DATED MONTH

| | CR 1250 | CR 1250 |
|---|---|---|
| | FM 866 TO E LOOP 338 | E LOOP 338 TO FM 1208 |
| DIRECTIONAL DISTRIBUTION | 52% | 52% |
| PERCENT TRUCKS OF DHV | 23.9% | 24.5% |
| K FACTOR | 9.1% | 9.1% |

LEGEND:

- GENERAL PURPOSE LANES (GP LANES)
- RAMPS
- FRONTAGE ROAD/CROSS STREETS
- PROPOSED RAMP GORE AREA
- PRELIMINARY STRUCTURE LIMITS
- PROPOSED BY OTHERS
- EXPLORED STRUCTURE
- DRIVEWAY
- SIDEWALK
- 100 YR FLOODPLAIN
- DIRECTION OF TRAFFIC
- UNDERSTRIKE ALIGNMENT NAME
- UNDERSCRIPT CURVE NO. LABEL
- PROPOSED RETAINING WALL
- METAL BEAM GUARD FENCE
- MAJOR KNOWN UTILITY
- EXISTING RIGHT-OF-WAY (R.O.W.)
- EXISTING CONTROL-OF-ACCESS (CSA)
- PROPOSED RIGHT-OF-WAY (R.O.W.)
- PROPOSED CONTROL-OF-ACCESS (PCPNAT)
- UNDERGORE PROPOSED SIGN NUMBER
- EXISTING PAVEMENT REMOVAL
- RIGHT-OF-WAY TAKE AREA
- PROPOSED DRAINAGE
- PROPOSED DRAINAGE EASEMENT
- EXISTING DRAINAGE
- EXISTING DITCH

NOTES:

1. AERIAL IMAGES SHOWN WERE OBTAINED FROM TEXAS DEPARTMENT OF TRANSPORTATION (SEPTEMBER 16, 2017) AND PARTS SUPPLY OF ORTHAL IMAGERY.
2. EXISTING TOPOGRAPHY WAS OBTAINED FROM THE TEXAS DEPARTMENT OF TRANSPORTATION ON JANUARY 15, 2018.
3. EXISTING RIGHT-OF-WAY SHOWN WAS DEVELOPED FROM EXISTING RIGHT OF WAY MAPS OBTAINED FROM TEXAS DEPARTMENT OF TRANSPORTATION ON OCTOBER 27, 2015.
4. SUPERELEVATION AXIS OF ROTATION IS ABOUT THE PGL.
5. APPROXIMATE 100 YEAR FLOODPLAIN LIMITS ARE BASED UPON FEMA FLOOD INSURANCE RATE MAPS SECTION COUNTY, REVISED MARCH 19, 2012 AND MIDLAND COUNTY, REVISED SEPTEMBER 16, 2009.
6. BRIDGE CONFIGURATION SHOWN ON SCHEMATIC DERIVED FROM CITIES OF MIDLAND AND ODESSA, BRIDGE INFORMATION.
7. FINAL DRIVEWAY LOCATIONS SHALL BE DETERMINED DURING FINAL DESIGN
8. EXISTING UTILITIES SHOWN WERE OBTAINED FROM SUE SURVEY BY HALFF ASSOCIATES, INC. (JUL7, 2016)

BEGIN PROJECT
IH 20 STA 890+00.00
BEGIN CSJ 0005-13-060

END PROJECT
IH 20 STA 1000+00.00
END CSJ 0005-13-060

PROJECT LOCATION MAP
NTS

ROLL: 5 OF 15

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SHEET 14 - SCHEMATIC
SHEET 15 - SCHEMATIC


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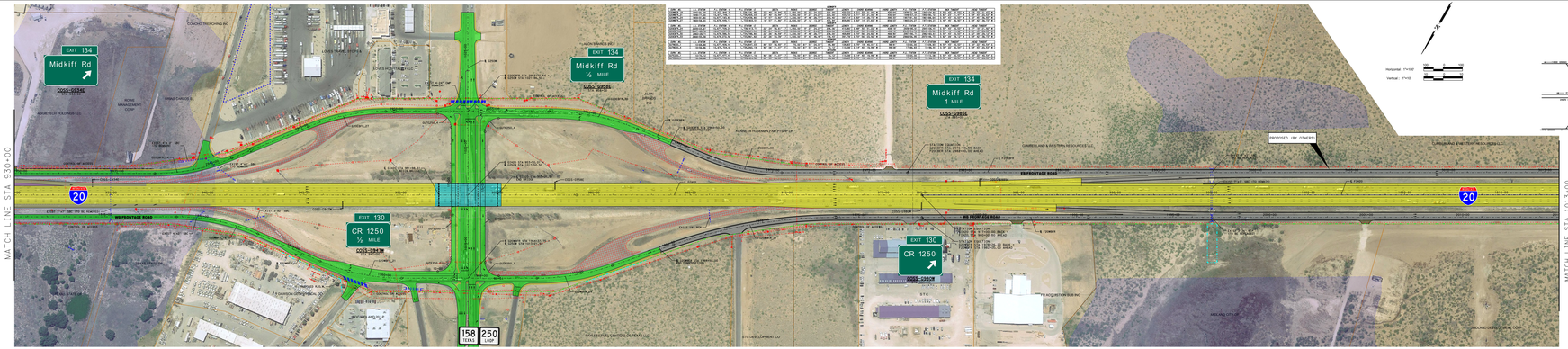


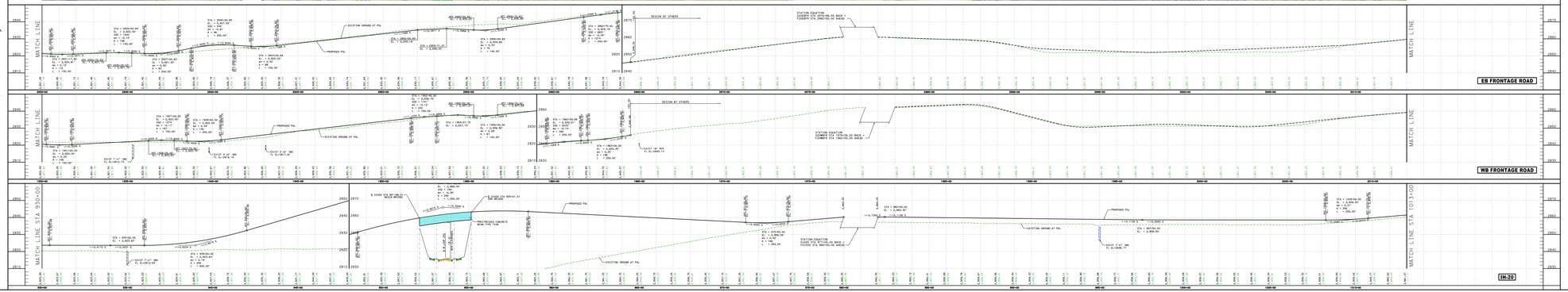



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# TEXAS DEPARTMENT OF TRANSPORTATION
## ODESSA DISTRICT

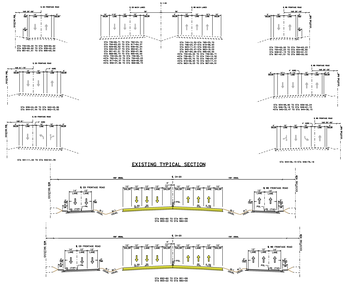
DESIGN SCHEMATIC
JOHN R. SPEED, P.E., DISTRICT ENGINEER
ECTOR/MIDLAND COUNTY
IH 20

PROJECT LIMIT: FROM EAST OF SH349 TO EAST OF JBS PKWY

CONTROL: 0005-13-060, 0005-14-086, 0005-14-087, 0005-14-092, 0005-13-064, 0005-14-093, 0005-14-094

PROJECT LENGTH = 17.03 MILES (89,900.0 FT)

| ROADWAY TYPE | DESIGN SPEED | FUNCTIONAL CLASSIFICATION |
|---|---|---|
| FREEWAY | 65 MPH | URBAN FREEWAY |
| FRONTAGE ROADS | 55 MPH | URBAN PRINCIPAL ARTERIAL |
| RAMP/CONNECTORS/LOCAL STREETS | 55 MPH | URBAN LOCAL STREET |
| CR/TWO WAY | 55 MPH | URBAN PRINCIPAL ARTERIAL |
| SH349 | 55 MPH | URBAN PRINCIPAL ARTERIAL |
| LOOP 338 E | 55 MPH | URBAN PRINCIPAL ARTERIAL |
| LOOP 338 W | 55 MPH | URBAN PRINCIPAL ARTERIAL |



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ROLL: 5 OF 15


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# TEXAS DEPARTMENT OF TRANSPORTATION
# ODESSA DISTRICT

DESIGN SCHEMATIC
JOHN R. SPEED, P.E., DISTRICT ENGINEER
ECTOR/MIDLAND COUNTY
IH 20

Texas Department of Transportation

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PROJECT LIMIT: FROM EAST OF SH349 TO EAST OF JBS PKWY

CONTROL: 0005-13-060, 0005-14-086, 0005-14-087, 0005-14-092, 0005-13-064, 0005-14-093, 0005-14-094

PROJECT LENGTH = 17.03 MILES (89,900.0 FT)

| ROADWAY TYPE | DESIGN SPEED | FUNCTIONAL CLASSIFICATION |
|---|---|---|
| FREEWAY | 70 MPH | URBAN FREEWAY |
| RAMPS | 50 MPH | URBAN PRINCIPAL ARTERIAL |
| FRONTAGE ROADS | 45 MPH | URBAN MAJOR COLLECTOR |
| CROSS STREETS/LOCAL STREETS | 35 MPH | URBAN LOCAL STREET |
| FM 1788 | 55 MPH | URBAN PRINCIPAL ARTERIAL |
| SH349 | 45 MPH | URBAN PRINCIPAL ARTERIAL |
| LOOP 250 W | 55 MPH | URBAN PRINCIPAL ARTERIAL |
| LOOP 338 E | 55 MPH | URBAN PRINCIPAL ARTERIAL |

**TRAFFIC DATA**

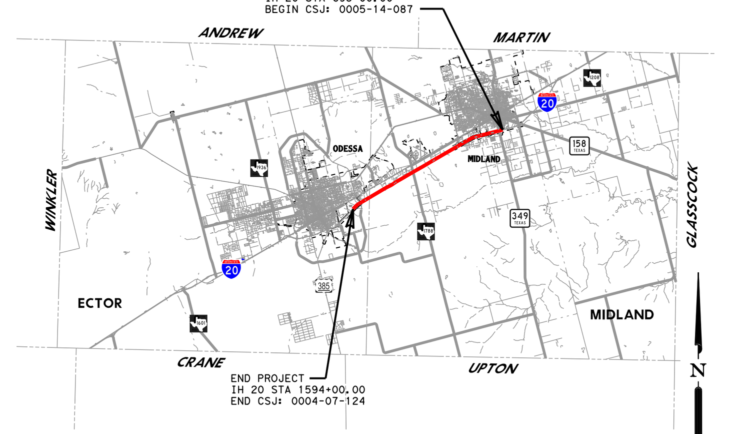
| TRAFFIC VOLUMES BASED ON YEAR 2042 PROJECTIONS APPROVED BY TXDOT TP&P DIVISION DATED $DATE$ | IH-20 FM 866 TO E LOOP 338 | IH-20 E LOOP 338 TO FM 1208 |
|---|---|---|
| DIRECTIONAL DISTRIBUTION | 52% | 52% |
| PERCENT TRUCKS OF DHV | 23.9% | 24.5% |
| K FACTOR | 9.1% | 9.1% |

**LEGEND:**

| | |
|---|---|
| GENERAL PURPOSE LANES (GP LANES) | DIRECTION OF TRAFFIC |
| RAMPS | DWBER338E — ALIGNMENT NAME |
| FRONTAGE ROAD/CROSS STREETS | DWBER338_1 — CURVE NO. LABEL |
| PROPOSED RAMP GORE AREA | PROPOSED RETAINING WALL |
| PRELIMINARY STRUCTURE LIMITS | METAL BEAM GUARD FENCE |
| PROPOSED BY OTHERS | MAJOR KNOWN UTILITY |
| DISPLACED STRUCTURE | EXISTING RIGHT-OF-WAY (R.O.W.) |
| DRIVEWAY | EXISTING CONTROL-OF-ACCESS (COA) |
| SIDEWALK | PROPOSED RIGHT-OF-WAY (R.O.W.) |
| 100 YR FLOODPLAIN | PROPOSED CONTROL-OF-ACCESS (BY PERMIT) |
| | OBS-F1029E — PROPOSED SIGN NUMBER |
| | EXISTING PAVEMENT REMOVAL |
| | RIGHT-OF-WAY TAKE AREA |
| | PROPOSED DRAINAGE |
| | PROPOSED DRAINAGE EASEMENT |
| | EXISTING DRAINAGE |
| | EXISTING DITCH |

**NOTES:**

1. AERIAL IMAGES SHOWN WERE OBTAINED FROM TEXAS DEPARTMENT OF TRANSPORTATION (SEPTEMBER 19, 2017) AND TNRIS (DATE OF AERIAL IMAGERY).
2. EXISTING TOPOGRAPHY SHOWN WAS PROVIDED BY THE TEXAS DEPARTMENT OF TRANSPORTATION ON JANUARY 10, 2018.
3. EXISTING RIGHT OF WAY SHOWN WAS DEVELOPED FROM EXISTING RIGHT OF WAY MAPS OBTAINED FROM TEXAS DEPARTMENT OF TRANSPORTATION ON OCTOBER 27, 2017.
4. SUPERELEVATION AXIS OF ROTATION IS ABOUT THE PGL.
5. APPROXIMATE 100 YEAR FLOODPLAIN LIMITS ARE BASED UPON FEMA FLOOD INSURANCE RATE MAPS (ECTOR COUNTY, REVISED MARCH 15, 2012 AND MIDLAND COUNTY, REVISED SEPTEMBER 16, 2005).
6. OWNERSHIP INFORMATION SHOWN ON SCHEMATIC OBTAINED FROM CITIES OF MIDLAND AND ODESSA, TEXAS (SEPTEMBER 6, 2017).
7. FINAL DRIVEWAY LOCATIONS SHALL BE DETERMINED DURING FINAL DESIGN.
8. EXISTING UTILITIES SHOWN WERE OBTAINED FROM SUE SURVEY BY HALFF ASSOCIATES, INC. (JULY, 2018)




PROJECT LOCATION MAP
NTS

ROLL: 6 OF 15

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ROLL 2: PLAN AND PROFILE-IH 20 STA 700+00 TO STA 789+00
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ROLL 4: PLAN AND PROFILE-IH 20 STA 860+00 TO STA 930+00*
ROLL 5: PLAN AND PROFILE-IH 20 STA 930+00 TO STA 1013+00
ROLL 6: PLAN AND PROFILE-IH 20 STA 1013+00 TO STA 1096+00*
ROLL 7: PLAN AND PROFILE-IH 20 STA 1096+00 TO STA 1183+00
ROLL 8: PLAN AND PROFILE-IH 20 STA 1183+00 TO STA 1250+00
ROLL 9: PLAN AND PROFILE-IH 20 STA 1250+00 TO STA 1330+00
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ROLL 13: PLAN AND PROFILE-IH 20 STA 1580+00 TO STA 1594+00
ROLL 14: PROFILES-RAMPS, CROSS STREETS AND U-TURNS
ROLL 15: PROFILES-RAMPS, CROSS STREETS AND U-TURNS

* AREAS PROPOSED BY OTHERS:
STA 811+85 TO STA 877+05
STA 1022+78.87 TO STA 1063+70.67

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1999 BRYAN ST, SUITE 1200
DALLAS, TX 75201-3136
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Firm Registration: F-2966

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| NAME | P.E. NO. | DATE |
|---|---|---|
| WILL BARRESI, P.E. | 90856 | 4/10/2020 |
| GRANT WU, P.E. | 89529 | 4/10/2020 |

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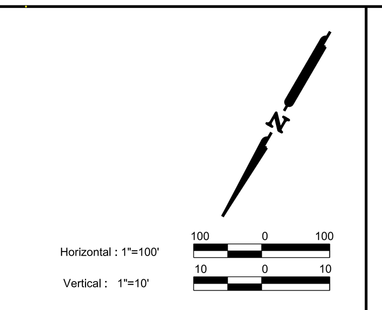

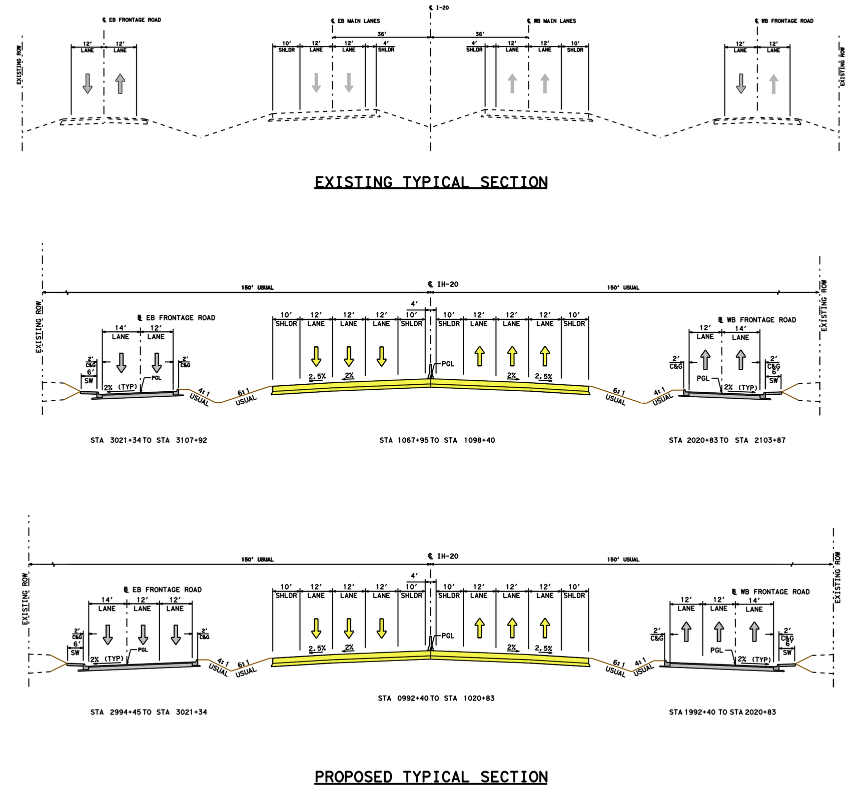


TEXAS DEPARTMENT OF TRANSPORTATION
ODESSA DISTRICT
DESIGN SCHEMATIC
JOHN R. SPEED, P.E., DISTRICT ENGINEER
ECTOR/MIDLAND COUNTY
IH 20
PROJECT LIMIT: FROM EAST OF SH349 TO EAST OF JBS PKWY
CONTROL: 0005-13-060, 0005-14-086, 0005-14-087, 0005-14-092, 0005-13-064, 0005-14-093, 0005-14-094
PROJECT LENGTH = 17.03 MILES (89,900.0 FT)



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# TEXAS DEPARTMENT OF TRANSPORTATION
## ODESSA DISTRICT

DESIGN SCHEMATIC
JOHN R. SPEED, P.E., DISTRICT ENGINEER
ECTOR/MIDLAND COUNTY
IH 20

Texas Department of Transportation
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PROJECT LIMIT: FROM EAST OF SH349 TO EAST OF JBS PKWY

CONTROL: 0005-13-060, 0005-14-086, 0005-14-087, 0005-14-092, 0005-13-064, 0005-14-093, 0005-14-094

PROJECT LENGTH = 17.03 MILES (89,900.0 FT)

| ROADWAY TYPE | DESIGN SPEED | FUNCTIONAL CLASSIFICATION |
|---|---|---|
| FREEWAY | 55 MPH | URBAN PRIMARY |
| FRONTAGE ROADS | 55 MPH | URBAN PRINCIPAL ARTERIAL |
| RAMP CONNECTORS/LOCAL STREETS | 45 MPH | URBAN LOCAL STREET |
| ON/ OFF RAMPS | 45 MPH | URBAN PRINCIPAL ARTERIAL |
| SHOAL | 45 MPH | URBAN PRINCIPAL ARTERIAL |
| LOOP 338 W | 55 MPH | URBAN PRINCIPAL ARTERIAL |
| LOOP 338 E | 55 MPH | URBAN PRINCIPAL ARTERIAL |

**TRAFFIC DATA**

TRAFFIC VOLUMES BASED ON TRAFFIC STUDY PERFORMED BY PARSONS BRINCKERHOFF DATED MARCH 2017

| | LOC 01 FM 866 TO E LOOP 338 | LOC 02 E LOOP 338 TO FM 1208 |
|---|---|---|
| DIRECTIONAL DISTRIBUTION | 52% | 52% |
| PERCENT TRUCKS OF DHV | 23.9% | 24.5% |
| K FACTOR | 9.1% | 9.1% |

**LEGEND:**

- GENERAL PURPOSE LANES (GP LANES)
- RAMPS
- FRONTAGE ROAD/CROSS STREETS
- PROPOSED RAMP GORE AREA
- PRELIMINARY STRUCTURE LIMITS
- PROPOSED BY OTHERS
- DISPLACED STRUCTURE
- DRIVEWAY
- SIDEWALK
- 100 YR FLOODPLAIN
- DIRECTION OF TRAFFIC
- ONGOISTONE ALIGNMENT NAME
- UNDERCOLL. CURVE NO. LABEL
- PROPOSED RETAINING WALL
- METAL BEAM GUARD FENCE
- MAJOR KNOWN UTILITY
- EXISTING RIGHT-OF-WAY (R.O.W.)
- EXISTING CONTROL-OF-ACCESS (CSA)
- PROPOSED RIGHT-OF-WAY (R.O.W.)
- PROPOSED CONTROL-OF-ACCESS (BY PERMIT)
- UNIFIGORE PROPOSED SIGN NUMBER
- EXISTING PAVEMENT REMOVAL
- RIGHT-OF-WAY TAKE AREA
- PROPOSED DRAINAGE
- PROPOSED DRAINAGE EASEMENT
- EXISTING DRAINAGE
- EXISTING DITCH

**NOTES:**

1. AERIAL IMAGES SHOWN WERE OBTAINED FROM TEXAS DEPARTMENT OF TRANSPORTATION (SEPTEMBER 16, 2017) AND PARTS SHOWN OF ANTRAL UNIVERSITY.
2. EXISTING TOPOGRAPHY WAS OBTAINED FROM TEXAS DEPARTMENT OF TRANSPORTATION ON JANUARY 15, 2018.
3. EXISTING RIGHT-OF-WAY WAS OBTAINED FROM TEXAS DEPARTMENT OF TRANSPORTATION ON OCTOBER 27, 2015.
4. SUPERELEVATION AXIS OF ROTATION IS ABOUT THE PGL.
5. APPROXIMATE 100 YEAR FLOODPLAIN LIMITS WERE BASED UPON FEMA FLOOD INSURANCE RATE MAPS SECTION COUNTY, REVISED MARCH 19, 2012 AND MIDLAND COUNTY, REVISED SEPTEMBER 16, 2009.
6. EXISTING UTILITIES WERE OBTAINED FROM ON SCHEMATIC OBTAINED FROM CITIES OF MIDLAND AND ODESSA, TEXAS (SEPTEMBER 16, 2016).
7. FINAL DRIVEWAY LOCATIONS SHALL BE DETERMINED DURING FINAL DESIGN
8. EXISTING UTILITIES SHOWN WERE OBTAINED FROM SUE SURVEY BY HALFF ASSOCIATES, INC. (JULY, 2016)

PROJECT LOCATION MAP
NTS

ROLL: 7 OF 15

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SHEET 14 - TYPICAL SECTIONS
SHEET 15 - TYPICAL SECTIONS


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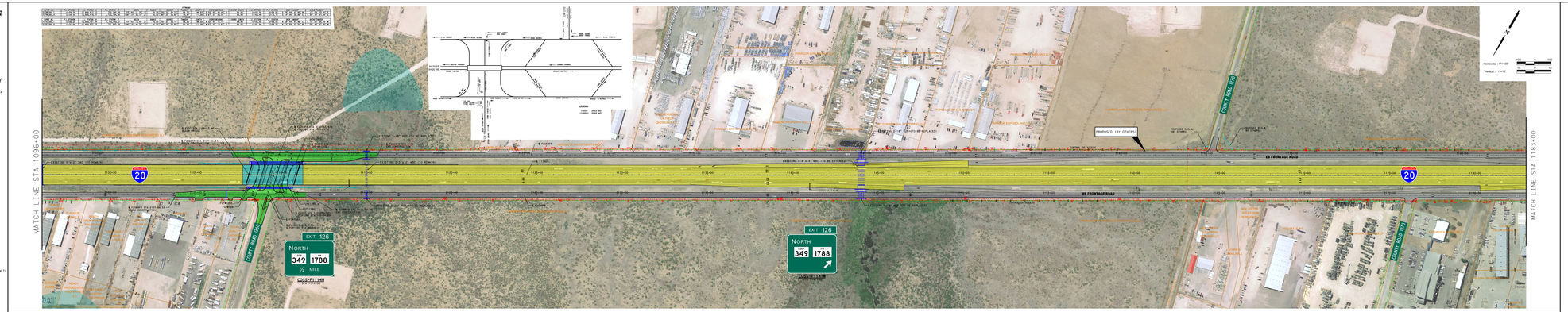


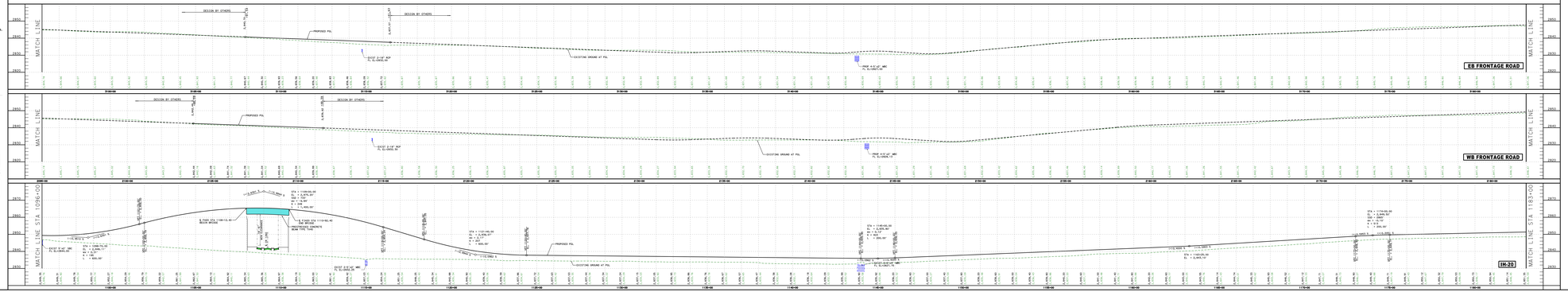



# TEXAS DEPARTMENT OF TRANSPORTATION
## ODESSA DISTRICT

DESIGN SCHEMATIC
JOHN R. SPEED, P.E., DISTRICT ENGINEER
ECTOR/MIDLAND COUNTY
IH 20

Texas Department of Transportation
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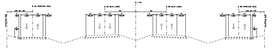
PROJECT LIMIT: FROM EAST OF SH349 TO EAST OF JBS PKWY

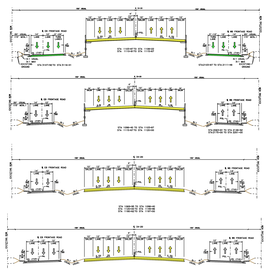
CONTROL: 0005-13-060, 0005-14-086, 0005-14-087, 0005-14-092, 0005-13-064, 0005-14-093, 0005-14-094

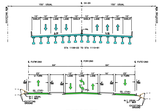
PROJECT LENGTH = 17.03 MILES (89,900.0 FT)

| ROADWAY TYPE | DESIGN SPEED | FUNCTIONAL CLASSIFICATION |
|---|---|---|
| FREEWAY | 55 MPH | URBAN PRIMARY |
| FRONTAGE ROADS | 55 MPH | URBAN PRINCIPAL ARTERIAL |
| RAMP CONNECTORS/LOCAL STREETS | 45 MPH | URBAN LOCAL STREET |
| ON/ OFF RAMPS | 45 MPH | URBAN PRINCIPAL ARTERIAL |
| SHOAL | 45 MPH | URBAN PRINCIPAL ARTERIAL |
| LOOP 338 W | 55 MPH | URBAN PRINCIPAL ARTERIAL |
| LOOP 338 E | 55 MPH | URBAN PRINCIPAL ARTERIAL |

EXISTING TYPICAL SECTION





PROPOSED TYPICAL SECTION


ROLL: 7 OF 15



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# TEXAS DEPARTMENT OF TRANSPORTATION
## ODESSA DISTRICT

DESIGN SCHEMATIC
JOHN R. SPEED, P.E., DISTRICT ENGINEER
ECTOR/MIDLAND COUNTY
IH 20

Texas Department of Transportation
Texas Transportation Commission
Kenneth Stewart, Chairman
Bruce Bugg, Jr., Vice Chairman
Alvin New
Laura Ryan
Jeff Wood
Kelly Flanagan
Marc Williams
Brian Lopez
Jesse Vega
Ex Officio
Marc D. Williams, P.E.
Executive Director

PROJECT LIMIT: FROM EAST OF SH349 TO EAST OF JBS PKWY

CONTROL: 0005-13-060, 0005-14-086, 0005-14-087, 0005-14-092, 0005-13-064, 0005-14-093, 0005-14-094

PROJECT LENGTH = 17.03 MILES (89,900.0 FT)

| ROADWAY TYPE | DESIGN SPEED | FUNCTIONAL CLASSIFICATION |
|---|---|---|
| FREEWAY | 65 MPH | URBAN FREEWAY |
| FRONTAGE ROADS | 55 MPH | URBAN PRINCIPAL ARTERIAL |
| CROSS STREETS/LOCAL STREETS | 35 MPH | URBAN LOCAL STREET/STREET |
| ON TIES | 65 MPH | URBAN LOOP STREET/STREET |
| SCRAP | 65 MPH | URBAN PRINCIPAL ARTERIAL |
| LOOP 338 E | 55 MPH | URBAN PRINCIPAL ARTERIAL |
| LOOP 338 W | 55 MPH | URBAN PRINCIPAL ARTERIAL |

**TRAFFIC DATA**

TRAFFIC VOLUMES BASED ON TRAFFIC STUDIES AND COUNTS PERFORMED BY TEXAS DEPARTMENT OF TRANSPORTATION DATED MONTHS

| | SH 349 | SH 158 |
|---|---|---|
| | FM 866 TO E LOOP 338 | E LOOP 338 TO FM 1208 |
| DIRECTIONAL DISTRIBUTION | 52% | 52% |
| PERCENT TRUCKS OF DHV | 23.9% | 24.5% |
| K FACTOR | 9.1% | 9.1% |

LEGEND:

- GENERAL PURPOSE LANES (GP LANES)
- RAMPS
- FRONTAGE ROAD/CROSS STREETS
- PROPOSED RAMP GORE AREA
- PRELIMINARY STRUCTURE LIMITS
- PROPOSED BY OTHERS
- EXEMPLARY STRUCTURE
- DRIVEWAY
- SIDEWALK
- 100 YR FLOODPLAIN
- DIRECTION OF TRAFFIC
- ONGOISTONE ALIGNMENT NAME
- DMBSR20L.1 CURVE NO. LABEL
- PROPOSED RETAINING WALL
- METAL BEAM GUARD FENCE
- MAJOR EXISTING UTILITY
- EXISTING RIGHT-OF-WAY (R.O.W.)
- EXISTING CONTROL-OF-ACCESS (COA)
- PROPOSED RIGHT-OF-WAY (R.O.W.)
- PROPOSED CONTROL-OF-ACCESS (BY PERMIT)
- UNIFORM PROPOSED SIGN NUMBER
- EXISTING PAVEMENT REMOVAL
- RIGHT-OF-WAY TAKE AREA
- PROPOSED DRAINAGE
- PROPOSED DRAINAGE EASEMENT
- EXISTING DRAINAGE
- EXISTING DITCH

NOTES:

1. AERIAL IMAGES SHOWN WERE OBTAINED FROM TEXAS DEPARTMENT OF TRANSPORTATION (SEPTEMBER 16, 2017) AND PARTS SUPPLY BY ARTERIAL IMAGERY.
2. EXISTING TOPOGRAPHY WAS OBTAINED FROM THE TEXAS DEPARTMENT OF TRANSPORTATION ON JANUARY 15, 2016.
3. EXISTING RIGHT-OF-WAY SHOWN WAS DEVELOPED FROM EXISTING RIGHT OF WAY MAPS OBTAINED FROM TEXAS DEPARTMENT OF TRANSPORTATION ON OCTOBER 27, 2016.
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7. FINAL DRIVEWAY LOCATIONS SHALL BE DETERMINED DURING FINAL DESIGN
8. EXISTING UTILITIES SHOWN WERE OBTAINED FROM SUE SURVEY BY HALFF ASSOCIATES, INC. (JUL7, 2016)

PROJECT LOCATION MAP
NTS

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SHEET 14 - SCHEMATIC OVERVIEW
SHEET 15 - SCHEMATIC OVERVIEW


Jacobs
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10700 Richmond Avenue, Suite 200
Houston, Texas 77042-3229
(713) 435-6000

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| | | |
|---|---|---|
| Date: | MONTH/D.Y. | 2019/2020 |
| Scale: | HORIZ. | 1"=100' |
| | VERT. | 1"=10' |
| Drawn: | PW/JT | 10/15/2020 |
| Checked: | PW/JT | 10/15/2020 |


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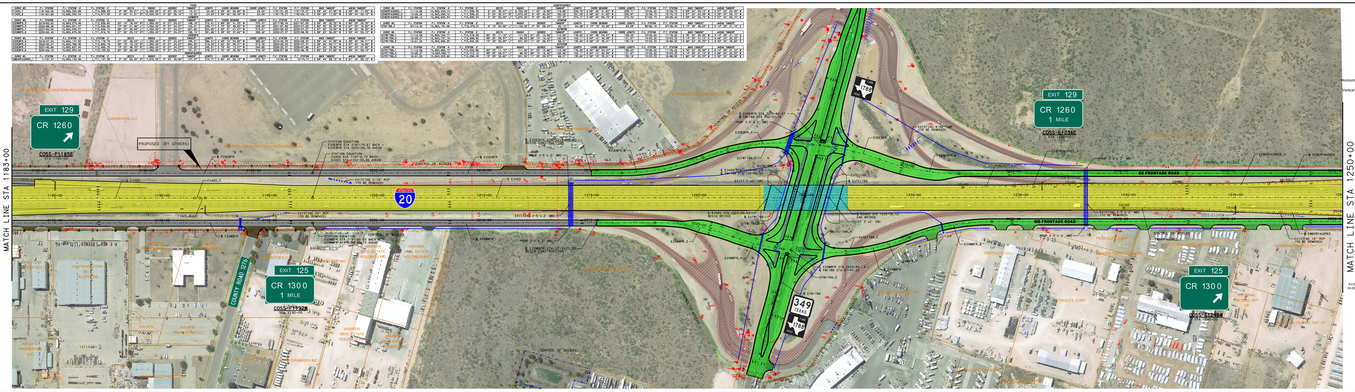
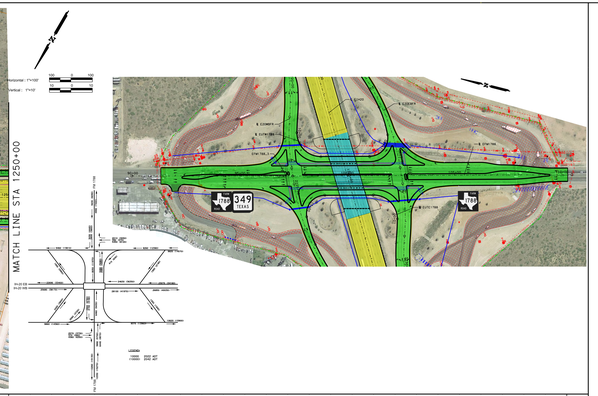
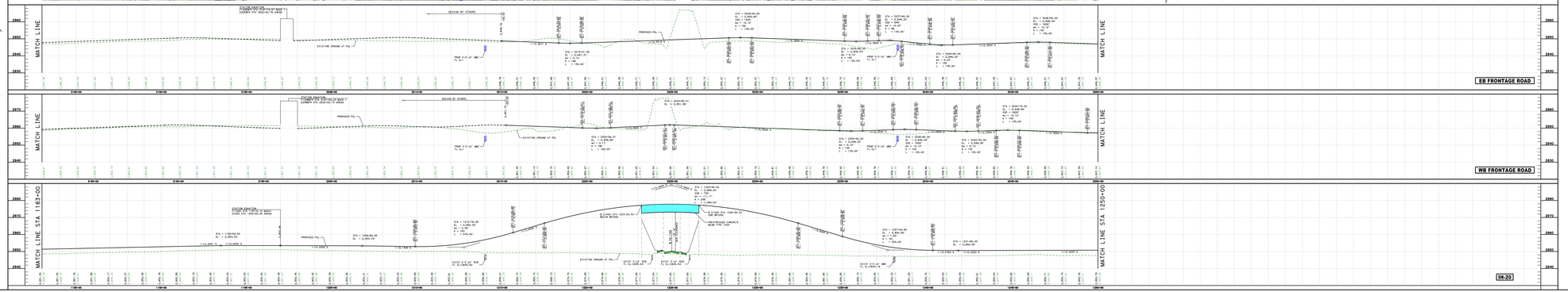




# TEXAS DEPARTMENT OF TRANSPORTATION
## ODESSA DISTRICT

DESIGN SCHEMATIC
JOHN R. SPEED, P.E., DISTRICT ENGINEER
ECTOR/MIDLAND COUNTY
IH 20

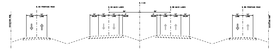
Texas Department of Transportation
Texas Transportation Commission
Kenneth Stewart, Chairman
Bruce Bugg, Jr., Vice Chairman
Alvin New
Laura Ryan
Jeff Wood
Kelly Flanagan
Marc Williams
Brian Lopez
Jesse Vega
Ex Officio
Marc D. Williams, P.E.
Executive Director

PROJECT LIMIT: FROM EAST OF SH349 TO EAST OF JBS PKWY

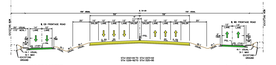
CONTROL: 0005-13-060, 0005-14-086, 0005-14-087, 0005-14-092, 0005-13-064, 0005-14-093, 0005-14-094

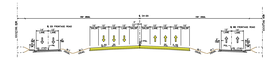
PROJECT LENGTH = 17.03 MILES (89,900.0 FT)

| ROADWAY TYPE | DESIGN SPEED | FUNCTIONAL CLASSIFICATION |
|---|---|---|
| FREEWAY | 65 MPH | URBAN FREEWAY |
| FRONTAGE ROADS | 55 MPH | URBAN PRINCIPAL ARTERIAL |
| CROSS STREETS/LOCAL STREETS | 35 MPH | URBAN LOCAL STREET/STREET |
| ON TIES | 65 MPH | URBAN LOOP STREET/STREET |
| SCRAP | 65 MPH | URBAN PRINCIPAL ARTERIAL |
| LOOP 338 E | 55 MPH | URBAN PRINCIPAL ARTERIAL |
| LOOP 338 W | 55 MPH | URBAN PRINCIPAL ARTERIAL |

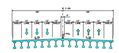
EXISTING TYPICAL SECTION





PROPOSED EASTBOUND RAMP

PROPOSED WESTBOUND RAMP



PROPOSED I20 TYPICAL SECTIONS

PROPOSED FM1788 TYPICAL SECTION


Jacobs
Jacobs Engineering Group Inc.
10700 Richmond Avenue, Suite 200
Houston, Texas 77042-3229
(713) 435-6000

PRELIMINARY FOR DESIGN REVIEW ONLY

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| | | |
|---|---|---|
| Date: | MONTH/D.Y. | 2019/2020 |
| Scale: | HORIZ. | 1"=100' |
| | VERT. | 1"=10' |
| Drawn: | PW/JT | 10/15/2020 |
| Checked: | PW/JT | 10/15/2020 |


ROLL: 8 OF 15


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# TEXAS DEPARTMENT OF TRANSPORTATION
## ODESSA DISTRICT

DESIGN SCHEMATIC
JOHN R. SPEED, P.E., DISTRICT ENGINEER
ECTOR/MIDLAND COUNTY
IH 20

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PROJECT LIMIT: FROM EAST OF SH349 TO EAST OF JBS PKWY

CONTROL: 0005-13-060, 0005-14-086, 0005-14-087, 0005-14-092, 0005-13-064, 0005-14-093, 0005-14-094

PROJECT LENGTH = 17.03 MILES (89,900.0 FT)

| ROADWAY TYPE | DESIGN SPEED | FUNCTIONAL CLASSIFICATION |
|---|---|---|
| FREEWAY | 70 MPH | URBAN FREEWAY |
| RAMPS | 50 MPH | URBAN PRINCIPAL ARTERIAL |
| FRONTAGE ROADS | 45 MPH | URBAN MAJOR COLLECTOR |
| CROSS STREETS/LOCAL STREETS | 35 MPH | URBAN LOCAL STREET |
| FM 1788 | 55 MPH | URBAN PRINCIPAL ARTERIAL |
| SH349 | 45 MPH | URBAN PRINCIPAL ARTERIAL |
| LOOP 250 W | 55 MPH | URBAN PRINCIPAL ARTERIAL |
| LOOP 338 E | 55 MPH | URBAN PRINCIPAL ARTERIAL |

**TRAFFIC DATA**

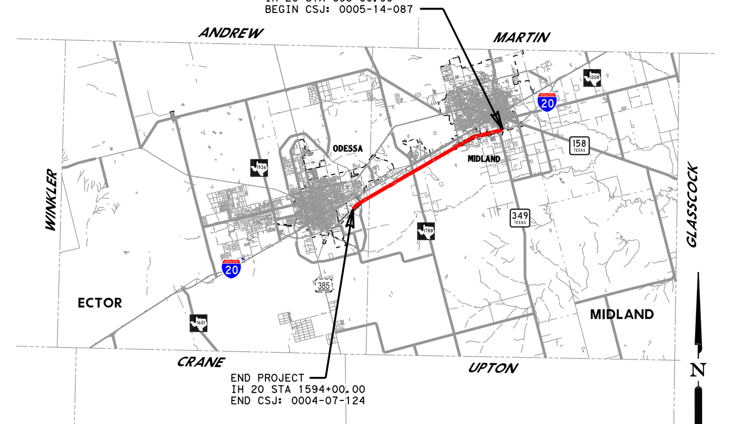
| TRAFFIC VOLUMES BASED ON YEAR 2042 PROJECTIONS APPROVED BY TXDOT TP&P DIVISION DATED $DATE$ | IH-20 FM 866 TO E LOOP 338 | IH-20 E LOOP 338 TO FM 1208 |
|---|---|---|
| DIRECTIONAL DISTRIBUTION | 52% | 52% |
| PERCENT TRUCKS OF DHV | 23.9% | 24.5% |
| K FACTOR | 9.1% | 9.1% |

**LEGEND:**

| Symbol | Description |
|---|---|
| (yellow) | GENERAL PURPOSE LANES (GP LANES) |
| (purple) | RAMPS |
| (green) | FRONTAGE ROAD/CROSS STREETS |
| (magenta wedge) | PROPOSED RAMP GORE AREA |
| (cyan) | PRELIMINARY STRUCTURE LIMITS |
| (grey) | PROPOSED BY OTHERS |
| (brown) | DISPLACED STRUCTURE |
| (dark green) | DRIVEWAY |
| (olive) | SIDEWALK |
| (lavender) | 100 YR FLOODPLAIN |
| → | DIRECTION OF TRAFFIC |
| DWBER338E | ALIGNMENT NAME |
| DWBER338_1 | CURVE NO. LABEL |
| (line) | PROPOSED RETAINING WALL |
| (line) | METAL BEAM GUARD FENCE |
| E1(D) | MAJOR KNOWN UTILITY |
| (line) | EXISTING RIGHT-OF-WAY (R.O.W.) |
| (line) | EXISTING CONTROL-OF-ACCESS (COA) |
| (line) | PROPOSED RIGHT-OF-WAY (R.O.W.) |
| (line) | PROPOSED CONTROL-OF-ACCESS (BY PERMIT) |
| OBS-F1029E | PROPOSED SIGN NUMBER |
| (hatched) | EXISTING PAVEMENT REMOVAL |
| (box) | RIGHT-OF-WAY TAKE AREA |
| (line) | PROPOSED DRAINAGE |
| (line) | PROPOSED DRAINAGE EASEMENT |
| (line) | EXISTING DRAINAGE |
| (line) | EXISTING DITCH |

**NOTES:**

1. AERIAL IMAGES SHOWN WERE OBTAINED FROM TEXAS DEPARTMENT OF TRANSPORTATION (SEPTEMBER 19, 2017) AND TNRIS (DATE OF AERIAL IMAGERY).
2. EXISTING TOPOGRAPHY SHOWN WAS PROVIDED BY THE TEXAS DEPARTMENT OF TRANSPORTATION ON JANUARY 10, 2018.
3. EXISTING RIGHT OF WAY SHOWN WAS DEVELOPED FROM EXISTING RIGHT OF WAY MAPS OBTAINED FROM TEXAS DEPARTMENT OF TRANSPORTATION ON OCTOBER 27, 2017.
4. SUPERELEVATION AXIS OF ROTATION IS ABOUT THE PGL.
5. APPROXIMATE 100 YEAR FLOODPLAIN LIMITS ARE BASED UPON FEMA FLOOD INSURANCE RATE MAPS (ECTOR COUNTY, REVISED MARCH 15, 2012 AND MIDLAND COUNTY, REVISED SEPTEMBER 16, 2005).
6. OWNERSHIP INFORMATION SHOWN ON SCHEMATIC OBTAINED FROM CITIES OF MIDLAND AND ODESSA, TEXAS (SEPTEMBER 6, 2017).
7. FINAL DRIVEWAY LOCATIONS SHALL BE DETERMINED DURING FINAL DESIGN
8. EXISTING UTILITIES SHOWN WERE OBTAINED FROM SUE SURVEY BY HALFF ASSOCIATES, INC. (JULY, 2018)




PROJECT LOCATION MAP
NTS

ROLL: 9 OF 15

**SHEET INDEX:**

ROLL 1: PLAN AND PROFILE-IH 20 STA 695+00 TO STA 700+00
ROLL 2: PLAN AND PROFILE-IH 20 STA 700+00 TO STA 789+00
ROLL 3: PLAN AND PROFILE-IH 20 STA 789+00 TO STA 860+00*
ROLL 4: PLAN AND PROFILE-IH 20 STA 860+00 TO STA 930+00*
ROLL 5: PLAN AND PROFILE-IH 20 STA 930+00 TO STA 1013+00
ROLL 6: PLAN AND PROFILE-IH 20 STA 1013+00 TO STA 1096+00*
ROLL 7: PLAN AND PROFILE-IH 20 STA 1096+00 TO STA 1183+00
ROLL 8: PLAN AND PROFILE-IH 20 STA 1183+00 TO STA 1250+00
ROLL 9: PLAN AND PROFILE-IH 20 STA 1250+00 TO STA 1330+00
ROLL 10: PLAN AND PROFILE-IH 20 STA 1330+00 TO STA 1415+00
ROLL 11: PLAN AND PROFILE-IH 20 STA 1415+00 TO STA 1495+00
ROLL 12: PLAN AND PROFILE-IH 20 STA 1495+00 TO STA 1580+00
ROLL 13: PLAN AND PROFILE-IH 20 STA 1580+00 TO STA 1594+00
ROLL 14: PROFILES-RAMPS, CROSS STREETS AND U-TURNS
ROLL 15: PROFILES-RAMPS, CROSS STREETS AND U-TURNS

* AREAS PROPOSED BY OTHERS:
STA 811+85 TO STA 877+05
STA 1022+78.87 TO STA 1063+70.67


Jacobs
1999 BRYAN ST, SUITE 1200
DALLAS, TX 75201-3136
Phone: +1 (214) 638-0145
Firm Registration: F-2966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| NAME | P.E. NO. | DATE |
|---|---|---|
| WILL BARRESI, P.E. | 90856 | 4/10/2020 |
| GRANT WU, P.E. | 89529 | 4/10/2020 |

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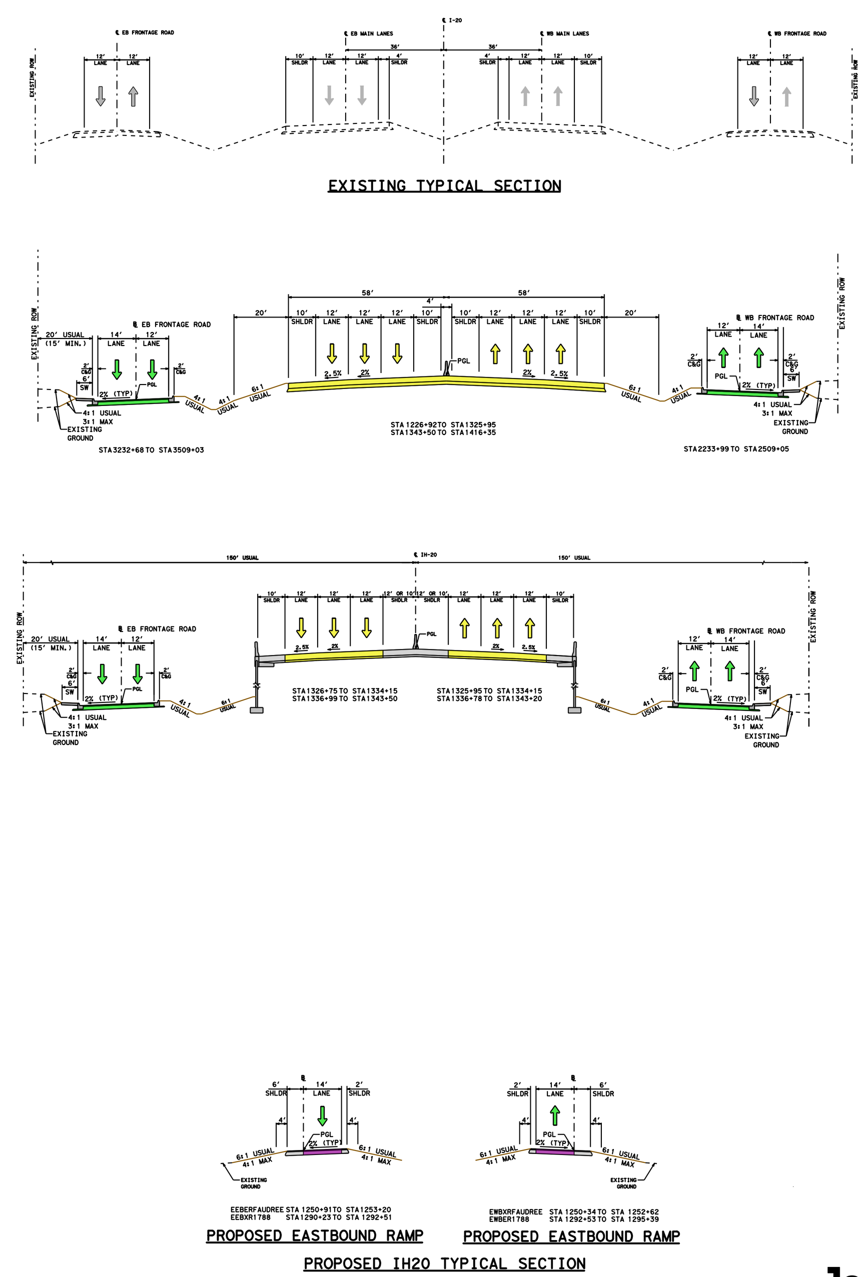
TEXAS DEPARTMENT OF TRANSPORTATION
ODESSA DISTRICT
DESIGN SCHEMATIC
JOHN R. SPEED, P.E., DISTRICT ENGINEER
ECTOR/MIDLAND COUNTY
IH 20
PROJECT LIMIT: FROM EAST OF SH349 TO EAST OF JBS PKWY
CONTROL: 0005-13-060, 0005-14-086, 0005-14-087, 0005-14-092, 0005-13-064, 0005-14-093, 0005-14-094
PROJECT LENGTH = 17.03 MILES (89,900.0 FT)


EXISTING TYPICAL SECTION

PROPOSED EASTBOUND RAMP

PROPOSED EASTBOUND RAMP

PROPOSED IH20 TYPICAL SECTION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ROLL: 9 OF 15
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# TEXAS DEPARTMENT OF TRANSPORTATION
## ODESSA DISTRICT

DESIGN SCHEMATIC
JOHN R. SPEED, P.E., DISTRICT ENGINEER
ECTOR/MIDLAND COUNTY
IH 20

PROJECT LIMIT: FROM EAST OF SH349 TO EAST OF JBS PKWY

CONTROL: 0005-13-060, 0005-14-086, 0005-14-087, 0005-14-092, 0005-13-064, 0005-14-093, 0005-14-094

PROJECT LENGTH = 17.03 MILES (89,900.0 FT)

| ROADWAY TYPE | DESIGN SPEED | FUNCTIONAL CLASSIFICATION |
|---|---|---|
| FREEWAY | 70 MPH | URBAN FREEWAY |
| FRONTAGE ROADS | 55 MPH | URBAN PRINCIPAL ARTERIAL |
| RAMPS/CROSSROADS/LOCAL STREETS | 30 MPH | URBAN LOCAL STREET |
| ON/OFF | 40 MPH | URBAN LOCAL STREET |
| SERVICE | 45 MPH | URBAN PRINCIPAL ARTERIAL |
| LOOP 338 W | 55 MPH | URBAN PRINCIPAL ARTERIAL |
| LOOP 338 E | 55 MPH | URBAN PRINCIPAL ARTERIAL |

**TRAFFIC DATA**

TRAFFIC VOLUMES BASED ON TRAFFIC STUDY PERFORMED BY PARSONS BRINCKERHOFF DATED MARCH 2017

| | SH 349 TO FM 866 | SH 349 TO E LOOP 338 | E LOOP 338 TO FM 1208 |
|---|---|---|---|
| DIRECTIONAL DISTRIBUTION | 52% | 52% | 52% |
| PERCENT TRUCKS OF DHV | 23.9% | 24.5% | |
| K FACTOR | 9.1% | 9.1% | |

LEGEND:

- GENERAL PURPOSE LANES (GP LANES)
- RAMPS
- FRONTAGE ROAD/CROSS STREETS
- PROPOSED RAMP GORE AREA
- PRELIMINARY STRUCTURE LIMITS
- PROPOSED BY OTHERS
- EXCAVATED STRUCTURE
- DRIVEWAY
- SIDEWALK
- 100 YR FLOODPLAIN
- DIRECTION OF TRAFFIC
- ONEMILESTONE ALIGNMENT NAME
- ONEMILESTONE CURVE NO. LABEL
- PROPOSED RETAINING WALL
- METAL BEAM GUARD FENCE
- MAJOR KNOWN UTILITY
- EXISTING RIGHT-OF-WAY (R.O.W.)
- EXISTING CONTROL-OF-ACCESS (COA)
- PROPOSED RIGHT-OF-WAY (R.O.W.)
- PROPOSED CONTROL-OF-ACCESS (C OF PCNAT)
- ONE-FIGURE PROPOSED SIGN NUMBER
- EXISTING PAVEMENT MARKING
- RIGHT-OF-WAY TAKE AREA
- PROPOSED DRAINAGE
- PROPOSED DRAINAGE EASEMENT
- EXISTING DRAINAGE
- EXISTING DITCH

NOTES:

1. AERIAL IMAGES SHOWN WERE OBTAINED FROM TEXAS DEPARTMENT OF TRANSPORTATION (SEPTEMBER 16, 2017) AND PARTIAL SURVEY OF AERIAL IMAGERY.
2. EXISTING RIGHT-OF-WAY WAS OBTAINED FROM THE TEXAS DEPARTMENT OF TRANSPORTATION ON JANUARY 15, 2014; TEXAS DEPARTMENT OF TRANSPORTATION ON OCTOBER 2, 2014; AND TEXAS DEPARTMENT OF TRANSPORTATION ON OCTOBER 27, 2015.
3. SUPERELEVATION AXIS OF ROTATION IS ABOUT THE POL.
4. APPROXIMATE 100 YEAR FLOODPLAIN LIMITS ARE BASED UPON FEMA FLOOD INSURANCE RATE MAPS SECTION COUNTY, REVISED MARCH 19, 2012 AND MIDLAND COUNTY, REVISED SEPTEMBER 16, 2009.
5. BRIDGE CLEARANCE DIMENSIONS SHOWN ON SCHEMATIC OBTAINED FROM CITIES OF MIDLAND AND ODESSA, TEXAS AND TEXAS DOT RECORDS.
7. FINAL DRIVEWAY LOCATIONS SHALL BE DETERMINED DURING FINAL DESIGN
8. EXISTING UTILITIES SHOWN WERE OBTAINED FROM SUE SURVEY BY HALFF ASSOCIATES, INC. (JUL7, 2016)

PROJECT LOCATION MAP
NTS

ROLL: 10 OF 15

SHEET INDEX:


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SHEET 2 - SCHEMATIC
SHEET 3 - SCHEMATIC
SHEET 4 - SCHEMATIC
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SHEET 14 - SCHEMATIC
SHEET 15 - SCHEMATIC


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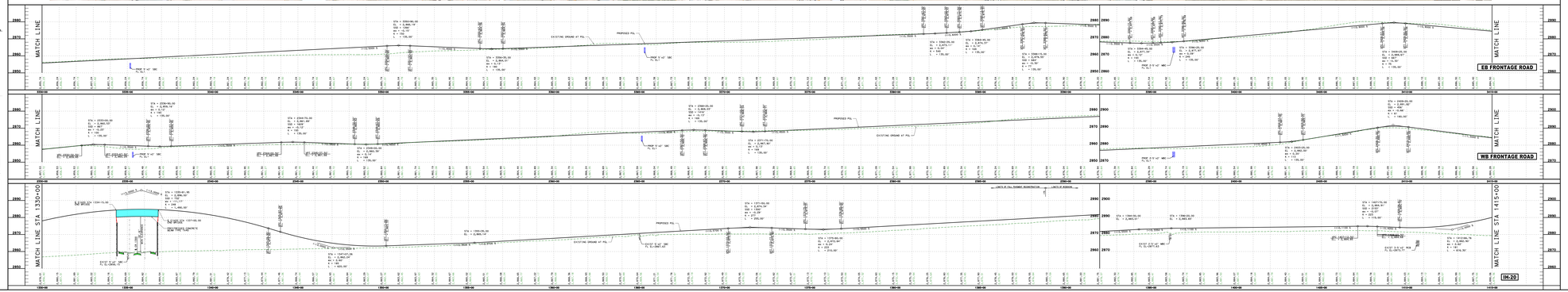




# TEXAS DEPARTMENT OF TRANSPORTATION
## ODESSA DISTRICT

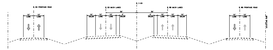
DESIGN SCHEMATIC
JOHN R. SPEED, P.E., DISTRICT ENGINEER
ECTOR/MIDLAND COUNTY
IH 20

PROJECT LIMIT: FROM EAST OF SH349 TO EAST OF JBS PKWY

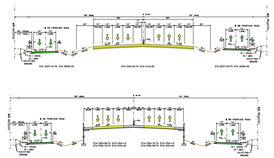
CONTROL: 0005-13-060, 0005-14-086, 0005-14-087, 0005-14-092, 0005-13-064, 0005-14-093, 0005-14-094

PROJECT LENGTH = 17.03 MILES (89,900.0 FT)

| ROADWAY TYPE | DESIGN SPEED | FUNCTIONAL CLASSIFICATION |
|---|---|---|
| FREEWAY | 70 MPH | URBAN FREEWAY |
| FRONTAGE ROADS | 55 MPH | URBAN PRINCIPAL ARTERIAL |
| RAMPS/CROSSROADS/LOCAL STREETS | 30 MPH | URBAN LOCAL STREET |
| ON/OFF | 40 MPH | URBAN LOCAL STREET |
| SERVICE | 45 MPH | URBAN PRINCIPAL ARTERIAL |
| LOOP 338 W | 55 MPH | URBAN PRINCIPAL ARTERIAL |
| LOOP 338 E | 55 MPH | URBAN PRINCIPAL ARTERIAL |

EXISTING TYPICAL SECTION



PROPOSED I-20 TYPICAL SECTION

PROPOSED CR130.0 TYPICAL SECTION

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ROLL: 10 OF 15

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# TEXAS DEPARTMENT OF TRANSPORTATION
## ODESSA DISTRICT

DESIGN SCHEMATIC
JOHN R. SPEED, P.E., DISTRICT ENGINEER
ECTOR/MIDLAND COUNTY
IH 20

PROJECT LIMIT: FROM EAST OF SH349 TO EAST OF JBS PKWY

CONTROL: 0005-13-060, 0005-14-086, 0005-14-087, 0005-14-092, 0005-13-064, 0005-14-093, 0005-14-094

PROJECT LENGTH = 17.03 MILES (89,900.0 FT)

| ROADWAY TYPE | DESIGN SPEED | FUNCTIONAL CLASSIFICATION |
|---|---|---|
| FREEWAY | 70 MPH | URBAN FREEWAY |
| FRONTAGE ROADS | 55 MPH | URBAN PRINCIPAL ARTERIAL |
| CROSS STREETS/LOCAL STREETS | 45 MPH | URBAN LOCAL STREET |
| ON/ OFF RAMPS | 45 MPH | URBAN PRINCIPAL ARTERIAL |
| SHAWN | 45 MPH | URBAN PRINCIPAL ARTERIAL |
| LOOP 338 W | 55 MPH | URBAN PRINCIPAL ARTERIAL |
| LOOP 338 E | 55 MPH | URBAN PRINCIPAL ARTERIAL |

**TRAFFIC DATA**

TRAFFIC VOLUMES BASED ON TRAFFIC STUDY PERFORMED BY PARSONS BRINCKERHOFF DATED MARCH 2014

| | LOOP 338 | LOOP 338 |
|---|---|---|
| | FM 866 TO E LOOP 338 | E LOOP 338 TO FM 1208 |
| DIRECTIONAL DISTRIBUTION | 52% | 52% |
| PERCENT TRUCKS OF DHV | 23.9% | 24.5% |
| K FACTOR | 9.1% | 9.1% |

LEGEND:

- GENERAL PURPOSE LANES (UP LANES)
- RAMPS
- FRONTAGE ROAD/CROSS STREETS
- PROPOSED RAMP GORE AREA
- PRELIMINARY STRUCTURE LIMITS
- PROPOSED BY OTHERS
- EXISTING STRUCTURE
- DRIVEWAY
- SIDEWALK
- 100 YR FLOODPLAIN
- DIRECTION OF TRAFFIC
- SMOOTHING ALIGNMENT NAME
- SMOOTHING CURVE NO. LABEL
- PROPOSED RETAINING WALL
- METAL BEAM GUARD FENCE
- MAJOR KNOWN UTILITY
- EXISTING RIGHT-OF-WAY (R.O.W.)
- EXISTING CONTROL-OF-ACCESS (CSA)
- PROPOSED RIGHT-OF-WAY (R.O.W.)
- PROPOSED CONTROL-OF-ACCESS (BY PERMIT)
- 1MP-F100W PROPOSED SIGN NUMBER
- EXISTING PAVEMENT REMOVAL
- RIGHT-OF-WAY TAKE AREA
- PROPOSED DRAINAGE
- PROPOSED DRAINAGE EASEMENT
- EXISTING DRAINAGE
- EXISTING DITCH

NOTES:

1. AERIAL IMAGES SHOWN WERE OBTAINED FROM TEXAS DEPARTMENT OF TRANSPORTATION (SEPTEMBER 16, 2017) AND PARTS SHOWN BY AERIAL IMAGERY.
2. EXISTING TOPOGRAPHY WAS OBTAINED FROM THE TEXAS DEPARTMENT OF TRANSPORTATION ON JANUARY 19, 2016. EXISTING ROAD SURFACE AND ROW WERE DEVELOPED FROM EXISTING RIGHT OF WAY MAPS OBTAINED FROM TEXAS DEPARTMENT OF TRANSPORTATION ON OCTOBER 27, 2015.
4. SUPERELEVATION AXIS OF ROTATION IS ABOUT THE POL.
5. APPROXIMATE 100 YEAR FLOODPLAIN LIMITS ARE BASED UPON FEMA FLOOD INSURANCE DATE MAPS SECTION COUNTY, REVISED MARCH 19, 2012 AND MIDLAND COUNTY, REVISED SEPTEMBER 16, 2009.
6. EXISTING UTILITIES SHOWN WERE OBTAINED FROM SUE SURVEY BY HALFF ASSOCIATES, INC. (JUL7, 2016)

BEGIN PROJECT
BP CSJ STA 1415+00.00
BP CSJ STA 1503+13.87

END PROJECT
EP CSJ STA 1495+00.00
EP CSJ STA 1600+13.13

PROJECT LOCATION MAP
NTS

ROLL: 11 OF 15

SHEET INDEX:


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SHEET 7 DESIGN SCHEMATIC
SHEET 8 DESIGN SCHEMATIC
SHEET 9 DESIGN SCHEMATIC
SHEET 10 DESIGN SCHEMATIC
SHEET 11 DESIGN SCHEMATIC
SHEET 12 DESIGN SCHEMATIC
SHEET 13 DESIGN SCHEMATIC
SHEET 14 DESIGN SCHEMATIC
SHEET 15 DESIGN SCHEMATIC


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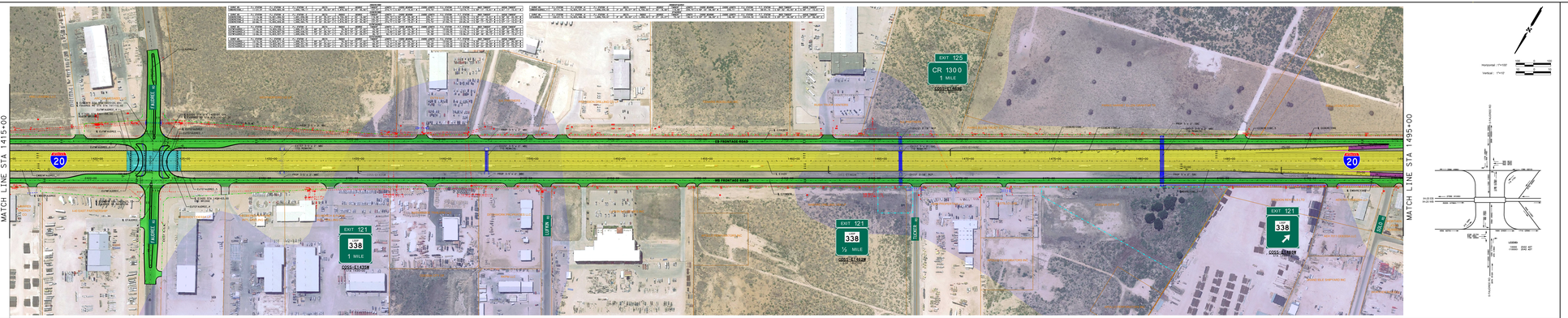


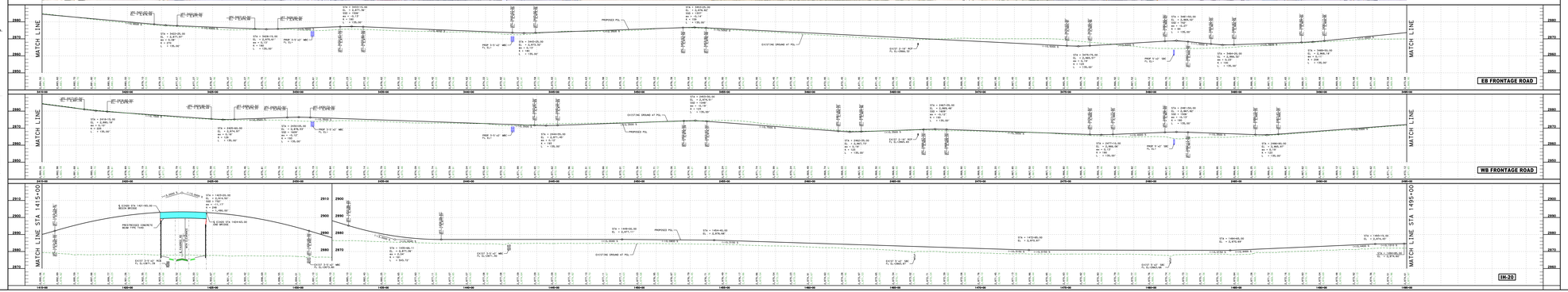




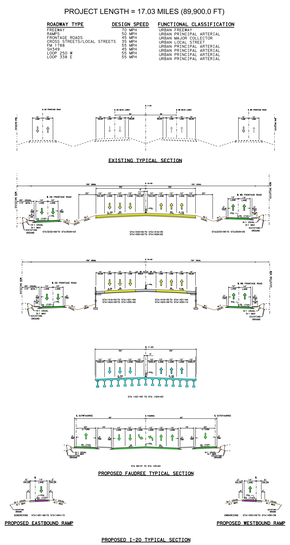



# TEXAS DEPARTMENT OF TRANSPORTATION
## ODESSA DISTRICT

DESIGN SCHEMATIC
JOHN R. SPEED, P.E., DISTRICT ENGINEER
ECTOR/MIDLAND COUNTY
IH 20

PROJECT LIMIT: FROM EAST OF SH349 TO EAST OF JBS PKWY

CONTROL: 0005-13-060, 0005-14-086, 0005-14-087, 0005-14-092, 0005-13-064, 0005-14-093, 0005-14-094

PROJECT LENGTH = 17.03 MILES (89,900.0 FT)

| ROADWAY TYPE | DESIGN SPEED | FUNCTIONAL CLASSIFICATION |
|---|---|---|
| FREEWAY | 70 MPH | URBAN FREEWAY |
| FRONTAGE ROADS | 55 MPH | URBAN PRINCIPAL ARTERIAL |
| CROSS STREETS/LOCAL STREETS | 45 MPH | URBAN LOCAL STREET |
| ON/ OFF RAMPS | 45 MPH | URBAN PRINCIPAL ARTERIAL |
| SHAWN | 45 MPH | URBAN PRINCIPAL ARTERIAL |
| LOOP 338 W | 55 MPH | URBAN PRINCIPAL ARTERIAL |
| LOOP 338 E | 55 MPH | URBAN PRINCIPAL ARTERIAL |

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PRELIMINARY FOR DESIGN REVIEW ONLY


ROLL: 11 OF 15


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# TEXAS DEPARTMENT OF TRANSPORTATION
## ODESSA DISTRICT

DESIGN SCHEMATIC
JOHN R. SPEED, P.E., DISTRICT ENGINEER
ECTOR/MIDLAND COUNTY
IH 20

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PROJECT LIMIT: FROM EAST OF SH349 TO EAST OF JBS PKWY

CONTROL: 0005-13-060, 0005-14-086, 0005-14-087, 0005-14-092, 0005-13-064, 0005-14-093, 0005-14-094

PROJECT LENGTH = 17.03 MILES (89,900.0 FT)

| ROADWAY TYPE | DESIGN SPEED | FUNCTIONAL CLASSIFICATION |
|---|---|---|
| FREEWAY | 55 MPH | URBAN FREEWAY |
| FRONTAGE ROADS | 45 MPH | URBAN PRINCIPAL ARTERIAL |
| RAMPS (INCL. CONNECTING LOCAL STREETS | 35 MPH | URBAN LOCAL STREET |
| ON/ OFF RAMP | 35 MPH | URBAN PRINCIPAL ARTERIAL |
| SHARP | 45 MPH | URBAN PRINCIPAL ARTERIAL |
| LOOP 338 N | 55 MPH | URBAN PRINCIPAL ARTERIAL |
| LOOP 338 S | 55 MPH | URBAN PRINCIPAL ARTERIAL |

TRAFFIC DATA

TRAFFIC VOLUMES BASED ON TRAFFIC SURVEYS PERFORMED BY HOUSTON TRAFFICS, INC. ON TUESDAY, OCTOBER 16, 2018 DATES MONITOR

| | FM 866 TO E LOOP 338 | E LOOP 338 TO FM 1208 |
|---|---|---|
| DIRECTIONAL DISTRIBUTION | 52% | 52% |
| PERCENT TRUCKS OF DHV | 23.9% | 24.5% |
| K FACTOR | 9.1% | 9.1% |

LEGEND:

- GENERAL PURPOSE LANES (GP LANES)
- RAMPS
- FRONTAGE ROAD/CROSS STREETS
- PROPOSED RAMP GORE AREA
- PRELIMINARY STRUCTURE LIMITS
- PROPOSED BY OTHERS
- EXISTING STRUCTURE
- DRIVEWAY
- SIDEWALK
- 100 YR FLOODPLAIN
- DIRECTION OF TRAFFIC
- ONEWAYONE ALIGNMENT NAME
- CURVE NO. LABEL
- PROPOSED RETAINING WALL
- METAL BEAM GUARD FENCE
- MAJOR KNOWN UTILITY
- EXISTING RIGHT-OF-WAY (R.O.W.)
- EXISTING CONTROL-OF-ACCESS (CNA)
- PROPOSED RIGHT-OF-WAY (R.O.W.)
- PROPOSED CONTROL-OF-ACCESS (PC POINT)
- ONEWAYONE PROPOSED SIGN NUMBER
- EXISTING PAVEMENT REMOVAL
- RIGHT-OF-WAY TAKE AREA
- PROPOSED DRAINAGE
- PROPOSED DRAINAGE EASEMENT
- EXISTING DRAINAGE
- EXISTING DITCH

NOTES:

1. AERIAL IMAGES SHOWN WERE OBTAINED FROM TEXAS DEPARTMENT OF TRANSPORTATION (SEPTEMBER 16, 2017) AND PARCEL DATA OF ANTRIM, UNIVERSITY.
2. EXISTING TOPOGRAPHY WAS OBTAINED FROM THE TEXAS DEPARTMENT OF TRANSPORTATION ON JANUARY 15, 2014.
3. EXISTING RIGHT-OF-WAY SHOWN WAS DEVELOPED FROM EXISTING RIGHT OF WAY MAPS OBTAINED FROM TEXAS DEPARTMENT OF TRANSPORTATION ON OCTOBER 21, 2019.
4. SUPERELEVATION AXIS OF ROTATION IS ABOUT THE PGL.
5. APPROXIMATE 100 YEAR FLOODPLAIN LIMITS ARE BASED UPON FEMA FLOOD INSURANCE RATE MAPS SECTION COUNTY, REVISED MARCH 19, 2012 AND MIDLAND COUNTY, REVISED SEPTEMBER 16, 2009.
6. ROADWAY CROSS SLOPES SHOWN ON SCHEMATIC OBTAINED FROM CITIES OF MIDLAND AND ODESSA, BASED ON FIELD SURVEY.
7. FINAL DRIVEWAY LOCATIONS SHALL BE DETERMINED DURING FINAL DESIGN
8. EXISTING UTILITIES SHOWN WERE OBTAINED FROM SUE SURVEY BY HALFF ASSOCIATES, INC. (JUL7, 2018)

DESIGN PROJECT
IH 20 STA 1495+00
IH 20 STA 1580+00

PROJECT LOCATION MAP
NTS

ROLL: 12 OF 15

SHEET INDEX:


0005-13-060 SHEET 1 OF 15 - 0005-13-060 SHEET 15 OF 15
0005-14-086 SHEET 16 OF 15 - 0005-14-086 SHEET 30 OF 15
0005-14-087 SHEET 31 OF 15 - 0005-14-087 SHEET 45 OF 15
0005-14-092 SHEET 46 OF 15 - 0005-14-092 SHEET 60 SHEET 15
0005-13-064 SHEET 61 OF 15 - 0005-13-064 SHEET 75 OF 15
0005-14-093 SHEET 76 OF 15 - 0005-14-093 SHEET 90 OF 15
0005-14-094 SHEET 91 OF 15 - 0005-14-094 SHEET 105 OF 15


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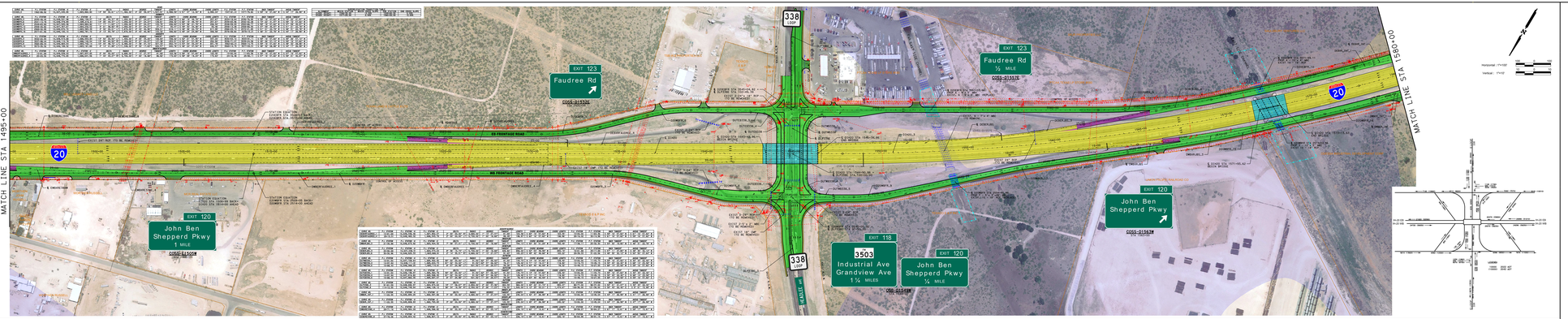








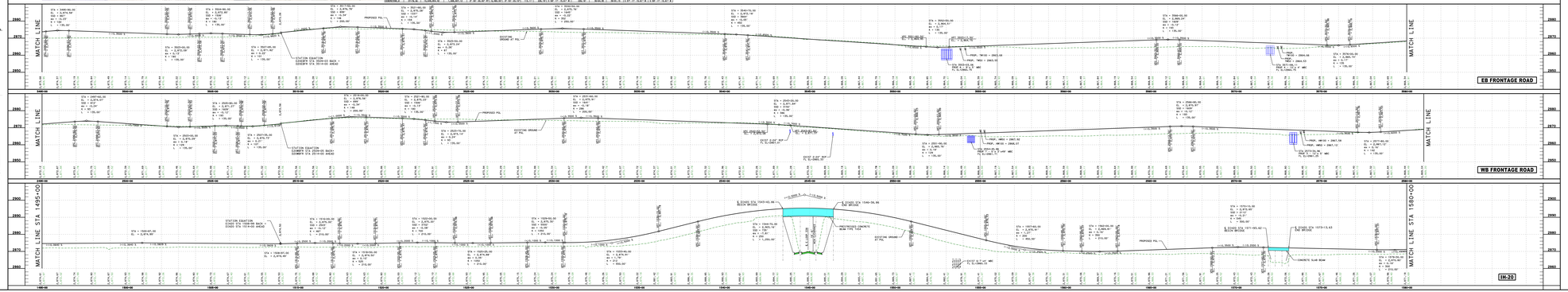


# TEXAS DEPARTMENT OF TRANSPORTATION
## ODESSA DISTRICT

DESIGN SCHEMATIC
JOHN R. SPEED, P.E., DISTRICT ENGINEER
ECTOR/MIDLAND COUNTY
IH 20

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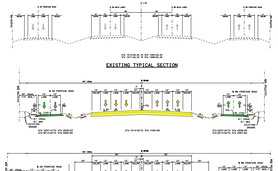
PROJECT LIMIT: FROM EAST OF SH349 TO EAST OF JBS PKWY

CONTROL: 0005-13-060, 0005-14-086, 0005-14-087, 0005-14-092, 0005-13-064, 0005-14-093, 0005-14-094

PROJECT LENGTH = 17.03 MILES (89,900.0 FT)

| ROADWAY TYPE | DESIGN SPEED | FUNCTIONAL CLASSIFICATION |
|---|---|---|
| FREEWAY | 55 MPH | URBAN FREEWAY |
| FRONTAGE ROADS | 45 MPH | URBAN PRINCIPAL ARTERIAL |
| RAMPS (INCL. CONNECTING LOCAL STREETS | 35 MPH | URBAN LOCAL STREET |
| ON/ OFF RAMP | 35 MPH | URBAN PRINCIPAL ARTERIAL |
| SHARP | 45 MPH | URBAN PRINCIPAL ARTERIAL |
| LOOP 338 N | 55 MPH | URBAN PRINCIPAL ARTERIAL |
| LOOP 338 S | 55 MPH | URBAN PRINCIPAL ARTERIAL |

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ROLL: 12 OF 15

# TEXAS DEPARTMENT OF TRANSPORTATION
## ODESSA DISTRICT

DESIGN SCHEMATIC
JOHN R. SPEED, P.E., DISTRICT ENGINEER
ECTOR/MIDLAND COUNTY
IH 20

PROJECT LIMIT: FROM EAST OF SH349 TO EAST OF JBS PKWY

CONTROL: 0005-13-060, 0005-14-086, 0005-14-087, 0005-14-092, 0005-13-064, 0005-14-093, 0005-14-094

PROJECT LENGTH = 17.03 MILES (89,900.0 FT)

| ROADWAY TYPE | DESIGN SPEED | FUNCTIONAL CLASSIFICATION |
|---|---|---|
| FREEWAY | 70 MPH | URBAN FREEWAY |
| RAMPS | 55 MPH | URBAN PRINCIPAL ARTERIAL |
| FRONTAGE ROADS | 55 MPH | URBAN PRINCIPAL ARTERIAL |
| CROSS STREETS/LOCAL STREETS | 35 MPH | URBAN LOCAL STREET |
| FM 1788 | 45 MPH | URBAN PRINCIPAL ARTERIAL |
| SH349 | 45 MPH | URBAN PRINCIPAL ARTERIAL |
| LOOP 338 W | 55 MPH | URBAN PRINCIPAL ARTERIAL |
| LOOP 338 E | 55 MPH | URBAN PRINCIPAL ARTERIAL |

**TRAFFIC DATA**

TRAFFIC VOLUMES BASED ON TRAFFIC SURVEYS PERFORMED BY HALFF ASSOCIATES, INC. DATED MARCH 2017

| | IH-20 | LOOP 338 |
|---|---|---|
| | FM 866 TO E LOOP 338 | E LOOP 338 TO FM 1208 |
| DIRECTIONAL DISTRIBUTION | 52% | 52% |
| PERCENT TRUCKS OF DHV | 23.9% | 24.5% |
| K FACTOR | 9.1% | 9.1% |

**LEGEND:**

- GENERAL PURPOSE LANES (GP LANES)
- RAMPS
- FRONTAGE ROAD/CROSS STREETS
- PROPOSED RAMP GORE AREA
- PRELIMINARY STRUCTURE LIMITS
- PROPOSED BY OTHERS
- EXCAVATED STRUCTURE
- DRIVEWAY
- SIDEWALK
- 100 YR FLOODPLAIN
- DIRECTION OF TRAFFIC
- ONEMINSTONE ALIGNMENT NAME
- ONEMIRCON_L CURVE NO. LABEL
- PROPOSED RETAINING WALL
- METAL BEAM GUARD FENCE
- MAJOR KNOWN UTILITY
- EXISTING RIGHT-OF-WAY (R.O.W.)
- EXISTING CONTROL-OF-ACCESS (CSA)
- PROPOSED RIGHT-OF-WAY (R.O.W.)
- PROPOSED CONTROL-OF-ACCESS (BY PERMIT)
- 1MV-F100W PROPOSED SIGN NUMBER
- EXISTING PAVEMENT REMOVAL
- RIGHT-OF-WAY TAKE AREA
- PROPOSED DRAINAGE
- PROPOSED DRAINAGE EASEMENT
- EXISTING DRAINAGE
- EXISTING DITCH

**NOTES:**

1. AERIAL IMAGES SHOWN WERE OBTAINED FROM TEXAS DEPARTMENT OF TRANSPORTATION (SEPTEMBER 16, 2017) AND PARCEL DATA OF ANTRAL UNIVERSITY.
2. EXISTING TOPOGRAPHY WAS OBTAINED BY THE TEXAS DEPARTMENT OF TRANSPORTATION ON JANUARY 15, 2016.
3. EXISTING RIGHT-OF-WAY SHOWN WAS DEVELOPED FROM EXISTING RIGHT OF WAY MAPS OBTAINED FROM TEXAS DEPARTMENT OF TRANSPORTATION ON OCTOBER 27, 2015.
4. SUPERELEVATION AXIS OF ROTATION IS ABOUT THE PGL.
5. APPROXIMATE 100 YEAR FLOODPLAIN LIMITS ARE BASED UPON FEMA FLOOD INSURANCE RATE MAPS SECTION COUNTY, REVISED MARCH 19, 2012 AND MIDLAND COUNTY, REVISED SEPTEMBER 16, 2009.
6. BRIDGE CONSTRUCTION SHOWN ON SCHEMATIC OBTAINED FROM CITIES OF MIDLAND AND ODESSA, BRIDGE INSPECTOR'S REPORT.
7. FINAL DRIVEWAY LOCATIONS SHALL BE DETERMINED DURING FINAL DESIGN
8. EXISTING UTILITIES SHOWN WERE OBTAINED FROM SUE SURVEY BY HALFF ASSOCIATES, INC. (JUL7, 2016)

PROJECT LOCATION MAP
NTS

ROLL: 13 OF 15

SHEET INDEX:


SHEET 1 - PLAN AND PROFILE (0+00.00 TO 100+00)
SHEET 2 - PLAN AND PROFILE (100+00 TO 200+00)
SHEET 3 - PLAN AND PROFILE (200+00 TO 300+00)
SHEET 4 - PLAN AND PROFILE (300+00 TO 400+00)
SHEET 5 - PLAN AND PROFILE (400+00 TO 500+00)
SHEET 6 - PLAN AND PROFILE (500+00 TO 600+00)
SHEET 7 - PLAN AND PROFILE (600+00 TO 700+00)
SHEET 8 - PLAN AND PROFILE (700+00 TO 800+00)
SHEET 9 - PLAN AND PROFILE (800+00 TO 900+00)
SHEET 10 - PLAN AND PROFILE (900+00 TO 1000+00)
SHEET 11 - PLAN AND PROFILE (1000+00 TO 1100+00)
SHEET 12 - PLAN AND PROFILE (1100+00 TO 1200+00)
SHEET 13 - PROFILE (1200+00 TO END OF PROJECT)


LEGAL DESCRIPTION
SHEET 14 - PARCEL 1 (0+00.00 TO 1+00.00)
SHEET 15 - PARCEL 2 (0+00.00 TO 1+00.00)

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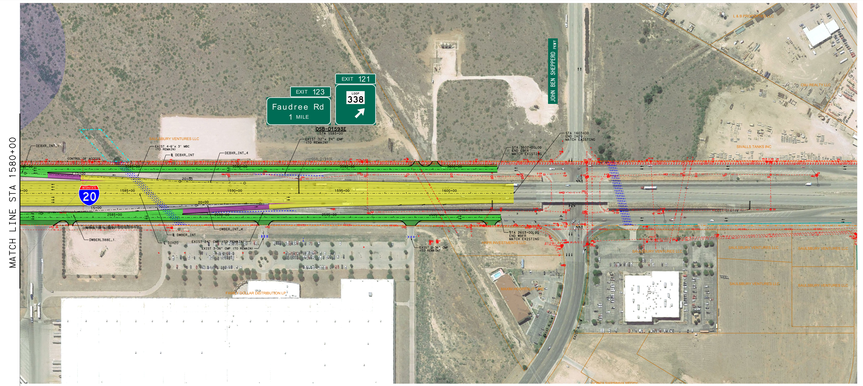
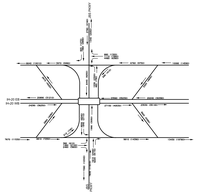




# TEXAS DEPARTMENT OF TRANSPORTATION
## ODESSA DISTRICT

DESIGN SCHEMATIC
JOHN R. SPEED, P.E., DISTRICT ENGINEER
ECTOR/MIDLAND COUNTY
IH 20

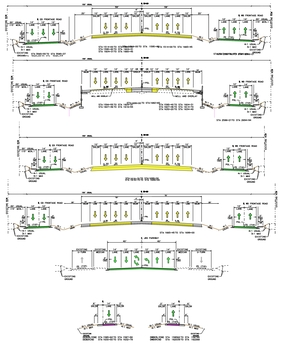
PROJECT LIMIT: FROM EAST OF SH349 TO EAST OF JBS PKWY

CONTROL: 0005-13-060, 0005-14-086, 0005-14-087, 0005-14-092, 0005-13-064, 0005-14-093, 0005-14-094

PROJECT LENGTH = 17.03 MILES (89,900.0 FT)

| ROADWAY TYPE | DESIGN SPEED | FUNCTIONAL CLASSIFICATION |
|---|---|---|
| FREEWAY | 70 MPH | URBAN FREEWAY |
| RAMPS | 55 MPH | URBAN PRINCIPAL ARTERIAL |
| FRONTAGE ROADS | 55 MPH | URBAN PRINCIPAL ARTERIAL |
| CROSS STREETS/LOCAL STREETS | 35 MPH | URBAN LOCAL STREET |
| FM 1788 | 45 MPH | URBAN PRINCIPAL ARTERIAL |
| SH349 | 45 MPH | URBAN PRINCIPAL ARTERIAL |
| LOOP 338 W | 55 MPH | URBAN PRINCIPAL ARTERIAL |
| LOOP 338 E | 55 MPH | URBAN PRINCIPAL ARTERIAL |

EXISTING TYPICAL SECTION



PROPOSED TYPICAL SECTION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ROLL: 13 OF 15

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# TEXAS DEPARTMENT OF TRANSPORTATION
## ODESSA DISTRICT

DESIGN SCHEMATIC
JOHN R. SPEED, P.E., DISTRICT ENGINEER
ECTOR/MIDLAND COUNTY
IH 20

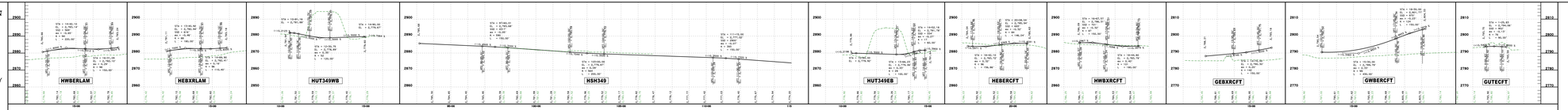
Texas Department of Transportation
Texas Transportation Commission
Kenneth Stewart, Chairman
Bruce Bugg, Vice Chairman
Alvin New
Laurie Garrison
Steven Lavender
James Bass
Kelly Control
Jeffery Wood
Marc Williams
Executive Director
Bernie Wilson

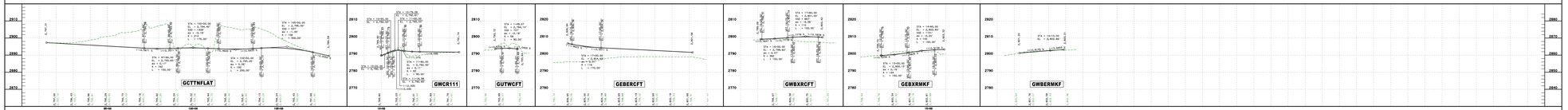
PROJECT LIMIT: FROM EAST OF SH349 TO EAST OF JBS PKWY

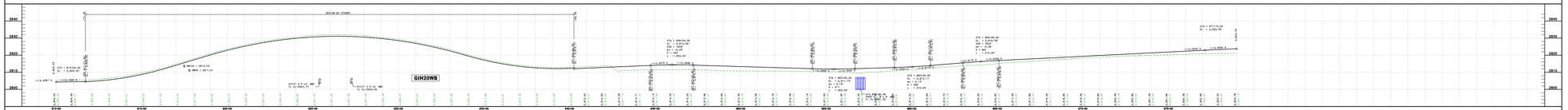
CONTROL: 0004-07-124, 0004-07-125, 0005-13-059,
0004-07-128, 0005-14-084, 0005-067,
0005-14-086 , 0005-13-060, 0005-14-087

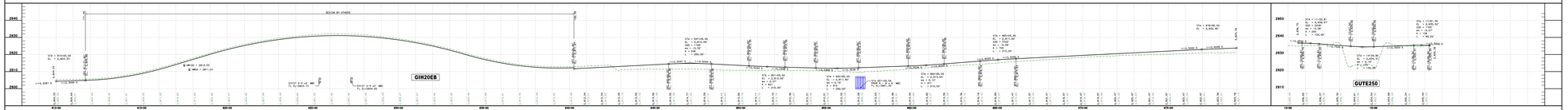
PROJECT LENGTH = 17.03 MILES (89,900.0 FT)

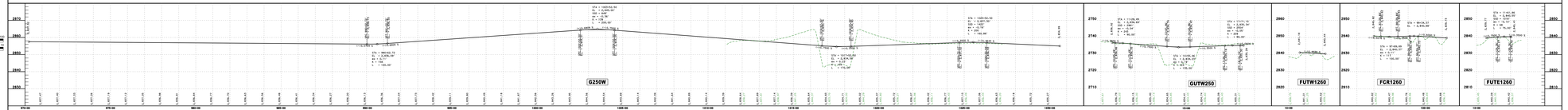
| ROADWAY TYPE | DESIGN SPEED | FUNCTIONAL CLASSIFICATION |
|---|---|---|
| FREEWAY | 55 MPH | URBAN FREEWAY |
| RAMPS | 55 MPH | URBAN PRINCIPAL ARTERIAL |
| FRONTAGE ROADS | 35 MPH | URBAN PRINCIPAL ARTERIAL |
| CROSS STREETS/LOCAL STREETS | 35 MPH | URBAN LOCAL STREETS |
| FM 1788 | 45 MPH | URBAN PRINCIPAL ARTERIAL |
| SH349 | 45 MPH | URBAN PRINCIPAL ARTERIAL |



PROJECT LOCATION MAP
NTS

ROLL: 14 OF 15

SHEET INDEX


SHEET 1 - TITLE SHEET
SHEET 2 - TYP SECTIONS
SHEET 3 - TYP SECTIONS
SHEET 4 - TYP SECTIONS
SHEET 5 - TYP SECTIONS
SHEET 6 - TYP SECTIONS
SHEET 7 - TYP SECTIONS
SHEET 8 - TYP SECTIONS
SHEET 9 - TYP SECTIONS
SHEET 10 - TYP SECTIONS
SHEET 11 - TYP SECTIONS
SHEET 12 - TYP SECTIONS
SHEET 13 - TYP SECTIONS
SHEET 14 - TYP SECTIONS
SHEET 15 - TYP SECTIONS


Horizontal: 1"=100'
Vertical: 1"=10'

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| | | |
|---|---|---|
| NAME: MARRIN L. | DATE: | 01/15/2021 |
| PE NO. 124000 | | |
| FIRM: | PE NO. F-2 | 01/15/2021 |
| FIRM: | PE NO. F-2 | 01/15/2021 |


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TEXAS DEPARTMENT OF TRANSPORTATION
ODESSA DISTRICT
DESIGN SCHEMATIC
JOHN R. SPEED, P.E., DISTRICT ENGINEER
ECTOR/MIDLAND COUNTY
IH 20

Texas Department of Transportation
Texas Transportation Commission
Kenneth Stewart, Chairman
Bruce Bugg, Vice Chairman
Alvin New
Laurie Garrison
Steven Lavender
James Bass
Kelly Control
Jeffery Wood
Marc Williams
Executive Director
Bernie Wilson

PROJECT LIMIT: FROM EAST OF SH349 TO EAST OF JBS PKWY

CONTROL: 0004-07-124, 0004-07-125, 0005-13-059,
0004-07-128, 0005-14-084, 0005-067,
0005-14-086 , 0005-13-060, 0005-14-087

PROJECT LENGTH = 17.03 MILES (89,900.0 FT)

| ROADWAY TYPE | DESIGN SPEED | FUNCTIONAL CLASSIFICATION |
|---|---|---|
| FREEWAY | 55 MPH | URBAN FREEWAY |
| RAMPS | 55 MPH | URBAN PRINCIPAL ARTERIAL |
| FRONTAGE ROADS | 35 MPH | URBAN PRINCIPAL ARTERIAL |
| CROSS STREETS/LOCAL STREETS | 35 MPH | URBAN LOCAL STREETS |
| FM 1788 | 45 MPH | URBAN PRINCIPAL ARTERIAL |
| SH349 | 45 MPH | URBAN PRINCIPAL ARTERIAL |

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|---|---|---|
| NAME: MARRIN L. | DATE: | 01/15/2021 |
| PE NO. 124000 | | |
| FIRM: | PE NO. F-2 | 01/15/2021 |
| FIRM: | PE NO. F-2 | 01/15/2021 |

ROLL: 14 OF 15

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# TEXAS DEPARTMENT OF TRANSPORTATION
## ODESSA DISTRICT

DESIGN SCHEMATIC
JOHN R. SPEED, P.E., DISTRICT ENGINEER
ECTOR/MIDLAND COUNTY
IH 20

Texas Department of Transportation
Texas Department of Transportation
Texas A&M Transportation Institute
Texas Tech University

PROJECT LIMIT: FROM EAST OF SH349 TO EAST OF JBS PKWY

CONTROL: 0004-07-124, 0004-07-125, 0005-13-059,
0004-07-128, 0005-14-084, 0005-067,
0005-14-086 , 0005-13-060, 0005-14-087

PROJECT LENGTH = 17.03 MILES (89,900.0 FT)

| ROADWAY TYPE | DESIGN SPEED | FUNCTIONAL CLASSIFICATION |
|---|---|---|
| FREEWAY | 55 MPH | URBAN FREEWAY |
| RAMPS | 55 MPH | URBAN PRINCIPAL ARTERIAL |
| FRONTAGE ROADS | 55 MPH | URBAN PRINCIPAL ARTERIAL |
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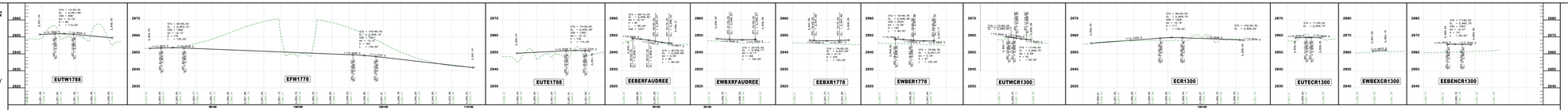
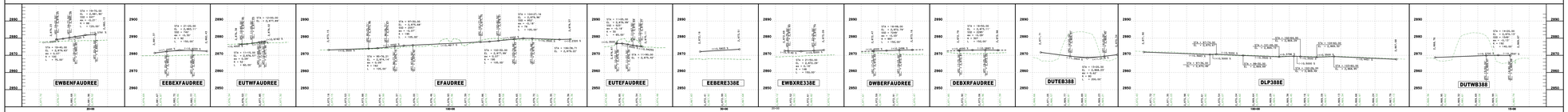
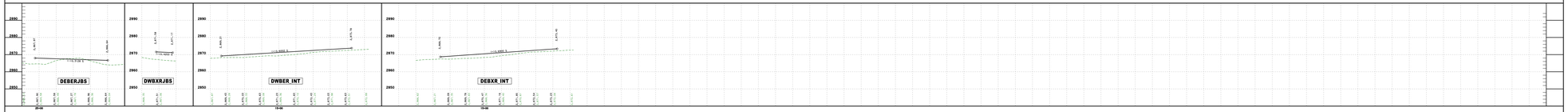
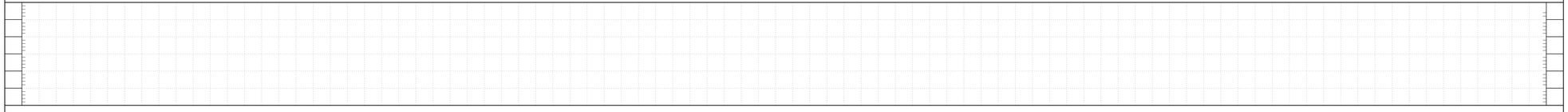
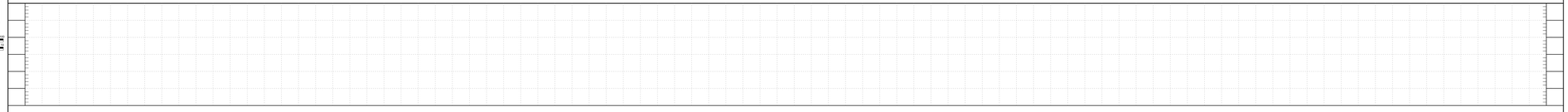
| FM 1788 | 45 MPH | URBAN PRINCIPAL ARTERIAL |
| SH349 | 45 MPH | URBAN PRINCIPAL ARTERIAL |





PROJECT LOCATION MAP
NTS

ROLL: 15 OF 15

SHEET INDEX


SHEET 1 - 0.00 MILE PROJECT LOCATION 1000+00.00 - 1000+00
SHEET 2 - 0.00 MILE PROJECT LOCATION 1000+00.00 - 1000+00
SHEET 3 - 0.00 MILE PROJECT LOCATION 1000+00.00 - 1000+00
SHEET 4 - 0.00 MILE PROJECT LOCATION 1000+00.00 - 1000+00
SHEET 5 - 0.00 MILE PROJECT LOCATION 1000+00.00 - 1000+00
SHEET 6 - 0.00 MILE PROJECT LOCATION 1000+00.00 - 1000+00
SHEET 7 - 0.00 MILE PROJECT LOCATION 1000+00.00 - 1000+00
SHEET 8 - 0.00 MILE PROJECT LOCATION 1000+00.00 - 1000+00
SHEET 9 - 0.00 MILE PROJECT LOCATION 1000+00.00 - 1000+00
SHEET 10 - 0.00 MILE PROJECT LOCATION 1000+00.00 - 1000+00
SHEET 11 - 0.00 MILE PROJECT LOCATION 1000+00.00 - 1000+00
SHEET 12 - 0.00 MILE PROJECT LOCATION 1000+00.00 - 1000+00
SHEET 13 - 0.00 MILE PROJECT LOCATION 1000+00.00 - 1000+00
SHEET 14 - 0.00 MILE PROJECT LOCATION 1000+00.00 - 1000+00
SHEET 15 - 0.00 MILE PROJECT LOCATION 1000+00.00 - 1000+00


Horizontal: 1"=100'
Vertical: 1"=10'

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TEXAS DEPARTMENT OF TRANSPORTATION
ODESSA DISTRICT
DESIGN SCHEMATIC
JOHN R. SPEED, P.E., DISTRICT ENGINEER
ECTOR/MIDLAND COUNTY
IH 20

Texas Department of Transportation
Texas Department of Transportation
Texas A&M Transportation Institute
Texas Tech University

PROJECT LIMIT: FROM EAST OF SH349 TO EAST OF JBS PKWY

CONTROL: 0004-07-124, 0004-07-125, 0005-13-059,
0004-07-128, 0005-14-084, 0005-067,
0005-14-086 , 0005-13-060, 0005-14-087

PROJECT LENGTH = 17.03 MILES (89,900.0 FT)

| ROADWAY TYPE | DESIGN SPEED | FUNCTIONAL CLASSIFICATION |
|---|---|---|
| FREEWAY | 55 MPH | URBAN FREEWAY |
| RAMPS | 55 MPH | URBAN PRINCIPAL ARTERIAL |
| FRONTAGE ROADS | 55 MPH | URBAN PRINCIPAL ARTERIAL |
| CROSS STREETS/LOCAL STREETS | 35 MPH | URBAN LOCAL STREETS |
| FM 1788 | 45 MPH | URBAN PRINCIPAL ARTERIAL |
| SH349 | 45 MPH | URBAN PRINCIPAL ARTERIAL |

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