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 JBS PKWY TO FM1936

CONTROL: 0004-07-124, 0004-07-125, 0005-13-059, 0004-07-128, 0005-13-062, 0004-07-135 , 0005-13-063

PROJECT LENGTH = 8.64 MILES (45,637.7 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
LOOP 338 (TECHNICAL STREETS	55 MPH	URBAN LOCAL STREET
LOOP 338 E	55 MPH	URBAN PRINCIPAL ARTERIAL
FM 1882	55 MPH	URBAN PRINCIPAL ARTERIAL

TRAFFIC DATA

TRAFFIC VOLUMES BASED ON TEXAS DEPARTMENT OF TRANSPORTATION APPROVED BY: PROJECT MANAGER DATED XXX XX, 20XX	IH-20 FM 866 TO E LOOP 338	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
IMMOVABLE ALIGNMENT NAME
IMMOVABLE 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 (C PCPNT)
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 TWRIS DATA BY AERIAL UNIVERSITY.
2. EXISTING TOPOGRAPHY WAS OBTAINED FROM TEXAS DEPARTMENT OF TRANSPORTATION ON JANUARY 15, 2018.
3. EXISTING RIGHT-OF-WAY SHOWN WAS DEVELOPED FROM RECORDED 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 RATE MAPS SECTION COUNTY, REVISED MARCH 19, 2012 AND MIDLAND COUNTY, REVISED SEPTEMBER 16, 2009.
6. PROPOSED RIGHT-OF-WAY SHOWN 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. (JUL7, 2016)

PROJECT LOCATION MAP
NTS

ROLL: 1 OF 9

SHEET INDEX:

SHEET 1 - TITLE SHEET
SHEET 2 - PLAN AND PROFILE (STA 1580+00 TO 1590+00)
SHEET 3 - PLAN AND PROFILE (STA 1590+00 TO 1600+00)
SHEET 4 - PLAN AND PROFILE (STA 1600+00 TO 1610+00)
SHEET 5 - PLAN AND PROFILE (STA 1610+00 TO 1620+00)
SHEET 6 - PLAN AND PROFILE (STA 1620+00 TO 1630+00)
SHEET 7 - PLAN AND PROFILE (STA 1630+00 TO 1640+00)
SHEET 8 - PLAN AND PROFILE (STA 1640+00 TO 1650+00)
SHEET 9 - PLAN AND PROFILE (STA 1650+00 TO 1660+00)

Jacobs

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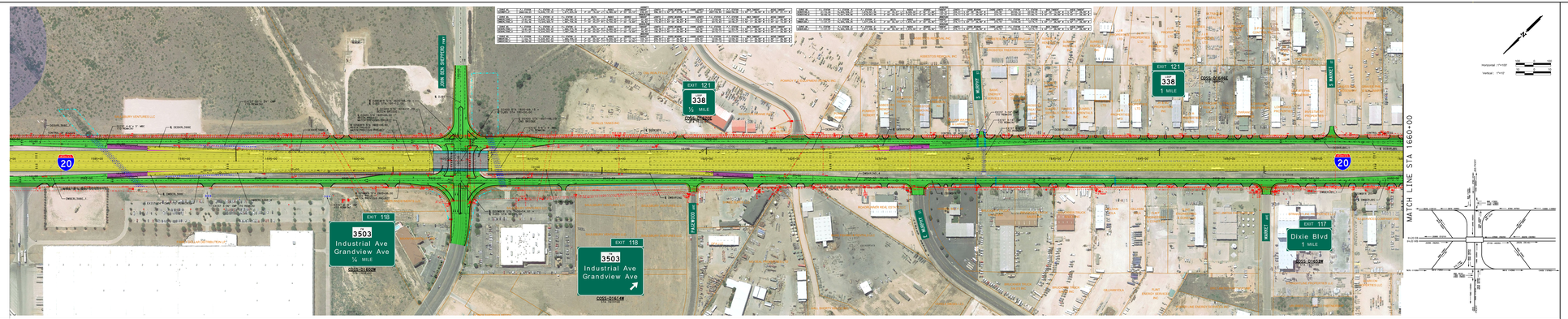

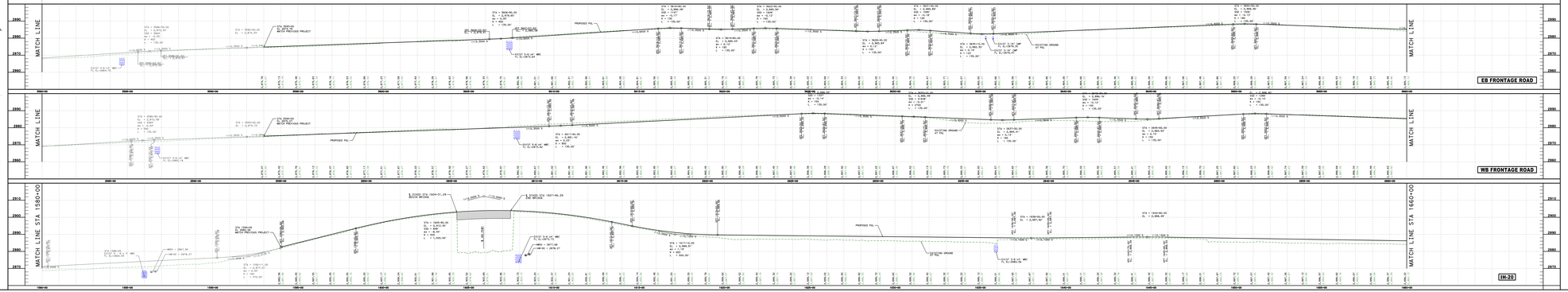

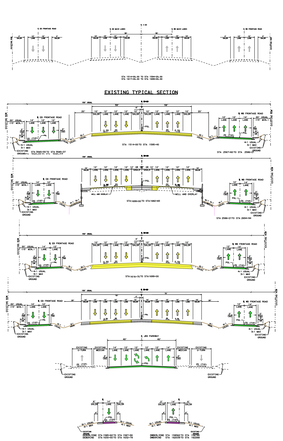

TEXAS DEPARTMENT OF TRANSPORTATION
ODESSA DISTRICT

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

PROJECT LIMIT: FROM EAST OF JBS PKWY TO FM1936

CONTROL: 0004-07-124, 0004-07-125, 0005-13-059, 0004-07-128, 0005-13-062, 0004-07-135 , 0005-13-063

PROJECT LENGTH = 8.64 MILES (45,637.7 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
LOOP 338 (TECHNICAL STREETS	55 MPH	URBAN LOCAL STREET
LOOP 338 E	55 MPH	URBAN PRINCIPAL ARTERIAL
FM 1882	55 MPH	URBAN PRINCIPAL ARTERIAL

Jacobs

PRELIMINARY FOR DESIGN REVIEW ONLY

ROLL: 1 OF 9

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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 JBS PKWY TO FM1936

CONTROL: 0004-07-124, 0004-07-125, 0005-13-059, 0004-07-128, 0005-13-062, 0004-07-135 , 0005-13-063

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ROADWAY TYPE	DESIGN SPEED	FUNCTIONAL CLASSIFICATION
FREEWAY	55 MPH	URBAN FREEWAY
RAMPS	55 MPH	URBAN PRINCIPAL ARTERIAL
FRONTAGE ROADS	55 MPH	URBAN LOCAL STREETS
CROSS STREETS/LOCAL STREETS	55 MPH	URBAN LOCAL STREETS
LOOP 338	55 MPH	URBAN PRINCIPAL ARTERIAL
FM 1882	55 MPH	URBAN PRINCIPAL ARTERIAL

TRAFFIC DATA

TRAFFIC VOLUMES BASED ON TRAFFIC STUDY PERFORMED BY HALFF ASSOCIATES, INC. AND DATED XXX FY, 2XXX	FM 866 TO E LOOP 338	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
- 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 (CSA)
- PROPOSED RIGHT-OF-WAY (R.O.W.)
- PROPOSED CONTROL-OF-ACCESS (CP POINT)
- 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 PARTIS SURVEY OF AERIAL IMAGERY.
2. EXISTING RIGHT-OF-WAY WAS OBTAINED FROM THE TEXAS DEPARTMENT OF TRANSPORTATION ON JANUARY 15, 2016.
3. EXISTING TOPOGRAPHY AND SHOWN BLDGS DEVELOPED FROM TEXAS DEPARTMENT OF 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 WATER SECTION COUNTY, REVISED MARCH 19, 2012 AND MIDLAND COUNTY, REVISED SEPTEMBER 16, 2009.
6. BRIDGE CONFIGURATION IS SHOWN ON SCHEMATIC OBTAINED FROM CITIES OF MIDLAND AND ODESSA, BRIDGE INSPECTOR'S REPORTS.
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)

PROJECT LOCATION MAP
NTS

ROLL: 2 OF 9

SHEET INDEX:

SHEET 1 OF 9 COVER SHEET
SHEET 2 OF 9 DESIGN SCHEMATIC
SHEET 3 OF 9 DESIGN SCHEMATIC
SHEET 4 OF 9 DESIGN SCHEMATIC
SHEET 5 OF 9 DESIGN SCHEMATIC
SHEET 6 OF 9 DESIGN SCHEMATIC
SHEET 7 OF 9 DESIGN SCHEMATIC
SHEET 8 OF 9 DESIGN SCHEMATIC
SHEET 9 OF 9 DESIGN SCHEMATIC

HALFF
1201 NORTH BOWSER ROAD
SUITE 300
RICHARDSON, TEXAS 75081
TBPE F-2186

Jacobs
9393 WEST BLUFF DRIVE
SUITE 200
AUSTIN, TX 78759
TBPE F-2579

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DESIGNED:		
DRAWN:		
REVIEWED:		
SUPERVISOR:		
DIST. ENGINEER:		

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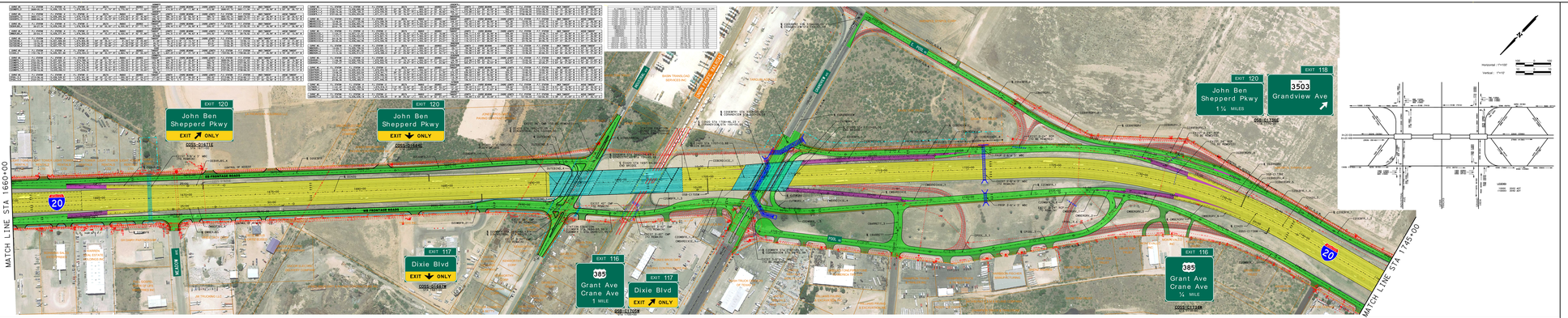

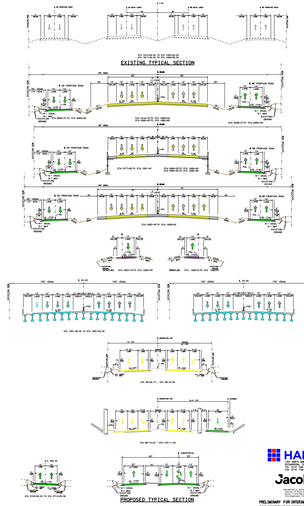

TEXAS DEPARTMENT OF TRANSPORTATION
ODESSA DISTRICT
DESIGN SCHEMATIC
JOHN R. SPEED, P.E., DISTRICT ENGINEER
ECTOR/MIDLAND COUNTY
IH 20
PROJECT LIMIT: FROM EAST OF JBS PKWY TO FM1936
CONTROL: 0004-07-124, 0004-07-125, 0005-13-059, 0004-07-128, 0005-13-062, 0004-07-135 , 0005-13-063
PROJECT LENGTH = 8.64 MILES (45,637.7 FT)
ROADWAY TYPE / DESIGN SPEED / FUNCTIONAL CLASSIFICATION
FREEWAY 55 MPH URBAN FREEWAY
RAMPS 55 MPH URBAN PRINCIPAL ARTERIAL
FRONTAGE ROADS 55 MPH URBAN LOCAL STREETS
CROSS STREETS/LOCAL STREETS 55 MPH URBAN LOCAL STREETS
LOOP 338 55 MPH URBAN PRINCIPAL ARTERIAL
FM 1882 55 MPH URBAN PRINCIPAL ARTERIAL
HALFF
1201 NORTH BOWSER ROAD
SUITE 300
RICHARDSON, TEXAS 75081
TBPE F-2186
Jacobs
9393 WEST BLUFF DRIVE
SUITE 200
AUSTIN, TX 78759
TBPE F-2579
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THIS DOCUMENT IS PRELIMINARY IN NATURE AND IS NOT INTENDED FOR CONSTRUCTION, BIDDING OR PERMIT PURPOSES.
DESIGNED:
DRAWN:
REVIEWED:
SUPERVISOR:
DIST. ENGINEER:

ROLL: 2 OF 9

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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 Department of Transportation

PROJECT LIMIT: FROM EAST OF JBS PKWY TO FM1936

CONTROL: 0004-07-124, 0004-07-125, 0005-13-059, 0004-07-128, 0005-13-062, 0004-07-135 , 0005-13-063

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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	30 MPH	URBAN LOCAL STREET
CROSS STREETS	55 MPH	URBAN PRINCIPAL ARTERIAL
FM 1882	55 MPH	URBAN PRINCIPAL ARTERIAL

TRAFFIC DATA

TRAFFIC VOLUMES BASED ON TRAFFIC STUDY PREPARED BY HARRIS BRANCH ASSOCIATES, INC. DATED XXX FL, 2XXX

	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
- UNDERSTRIKE ALIGNMENT NAME
- UNDERSTRIKE 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 (C-O-P)
- 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 ARTERIAL UNIVERSITY.
2. EXISTING TOPOGRAPHY WAS DERIVED/ADJUSTED BY THE TEXAS DEPARTMENT OF TRANSPORTATION ON JANUARY 15, 2018.
3. EXISTING RIGHT-OF-WAY SHOWN WAS DEVELOPED FROM RECORDS OF 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 RATE MAPS SECTION COUNTY, REVISED MARCH 19, 2012 AND MIDLAND COUNTY, REVISED SEPTEMBER 16, 2009.
6. EXISTING WETLANDS WERE SHOWN ON SCHEMATIC OBTAINED FROM CITIES OF MIDLAND AND ODESSA, TEXAS FEBRUARY 16, 2018.
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)

PROJECT LOCATION MAP
NTS

ROLL: 3 OF 9

SHEET INDEX:

SHEET 1 - TITLE SHEET
SHEET 2 - SCHEMATIC
SHEET 3 - SCHEMATIC
SHEET 4 - SCHEMATIC
SHEET 5 - SCHEMATIC
SHEET 6 - SCHEMATIC
SHEET 7 - SCHEMATIC
SHEET 8 - SCHEMATIC
SHEET 9 - SCHEMATIC

HALFF
AN AECOM TECHNICAL SERVICES COMPANY
1201 N. WATERFRONT PKWY, STE 150
WICHITA, KS 67206
TBPE F-2165

Jacobs
TBPE F-2580
TBPE F-2580 TBPLS 10194600

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JOHN R. SPEED, P.E. 12/31/2020
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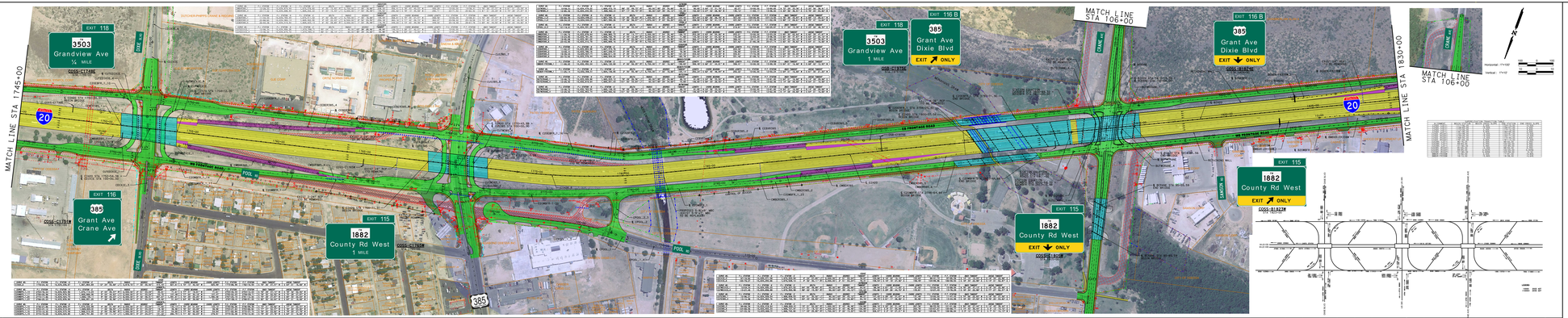
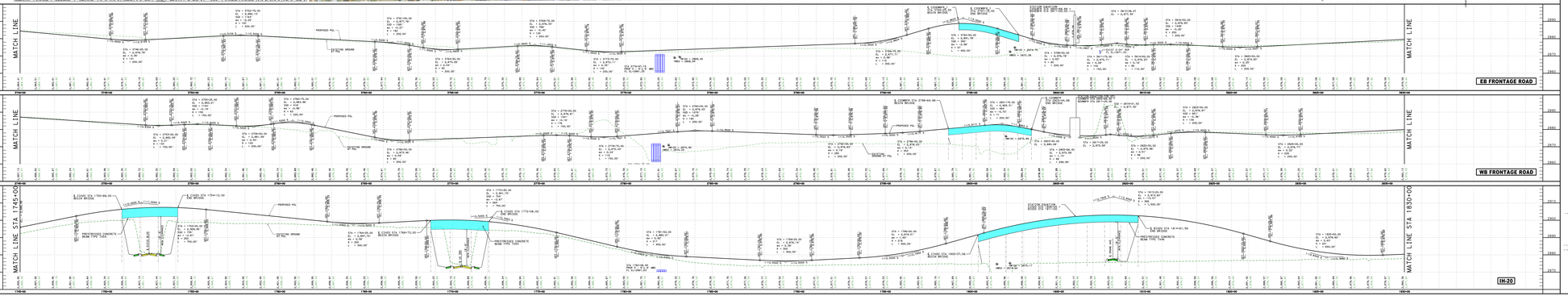




TEXAS DEPARTMENT OF TRANSPORTATION
ODESSA DISTRICT

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

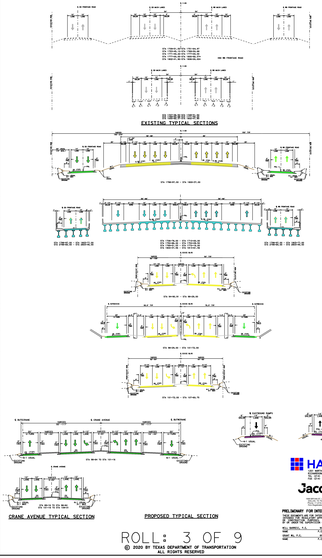
Texas Department of Transportation
Texas Department of Transportation
Texas Department of Transportation

PROJECT LIMIT: FROM EAST OF JBS PKWY TO FM1936

CONTROL: 0004-07-124, 0004-07-125, 0005-13-059, 0004-07-128, 0005-13-062, 0004-07-135 , 0005-13-063

PROJECT LENGTH = 8.64 MILES (45,637.7 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	30 MPH	URBAN LOCAL STREET
CROSS STREETS	55 MPH	URBAN PRINCIPAL ARTERIAL
FM 1882	55 MPH	URBAN PRINCIPAL ARTERIAL



ROLL: 3 OF 9
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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 JBS PKWY TO FM1936

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PROJECT LENGTH = 8.64 MILES (45,637.7 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
FROM LOCAL TO LOCAL STREETS	55 MPH	URBAN LOCAL STREET
LOOP 338	55 MPH	URBAN PRINCIPAL ARTERIAL
FM 1882	55 MPH	URBAN PRINCIPAL ARTERIAL

TRAFFIC DATA

TRAFFIC VOLUMES BASED ON TRAFFIC FORECASTS FROM TRANSPORTATION PLANNING AND PROGRAMMING DIVISION MEMORANDUM DATED XXX FL, 2XXX

	LOOP 338 TO FM 866	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
- FLOATLAND STRUCTURE
- DRIVEWAY
- SIDEWALK
- 100 YR FLOODPLAIN
- DIRECTION OF TRAFFIC
- UNDERSTREET ALIGNMENT NAME
- UNDERSTREET 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 (C-O-A)
- UNIFORM 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 PARCEL DATA FROM ANDREWS, UNIVERSITY.
2. EXISTING TOPOGRAPHY WAS OBTAINED FROM 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, 2015.
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, TEXAS DEPARTMENT OF TRANSPORTATION.
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)

PROJECT LOCATION MAP
NTS

ROLL: 4 OF 9

SHEET INDEX:

SHEET 1 - 0004-07-124 0004-07-125 0005-13-059 0004-07-128
SHEET 2 - 0004-07-135 0005-13-063
SHEET 3 - 0004-07-124 0004-07-125 0005-13-059 0004-07-128
SHEET 4 - 0004-07-124 0004-07-125 0005-13-059 0004-07-128
SHEET 5 - 0004-07-124 0004-07-125 0005-13-059 0004-07-128
SHEET 6 - 0004-07-124 0004-07-125 0005-13-059 0004-07-128
SHEET 7 - 0004-07-124 0004-07-125 0005-13-059 0004-07-128
SHEET 8 - 0004-07-124 0004-07-125 0005-13-059 0004-07-128
SHEET 9 - 0004-07-124 0004-07-125 0005-13-059 0004-07-128

Jacobs

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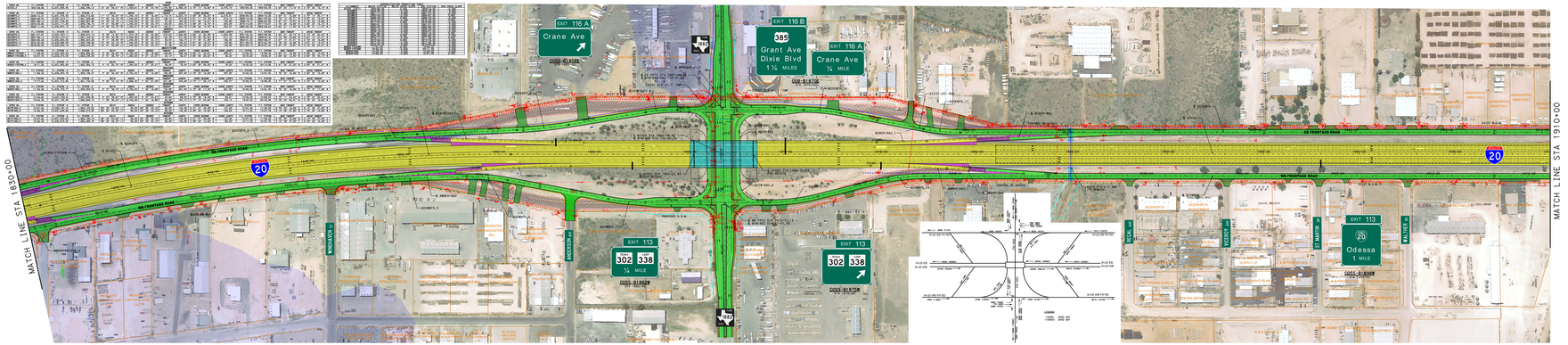
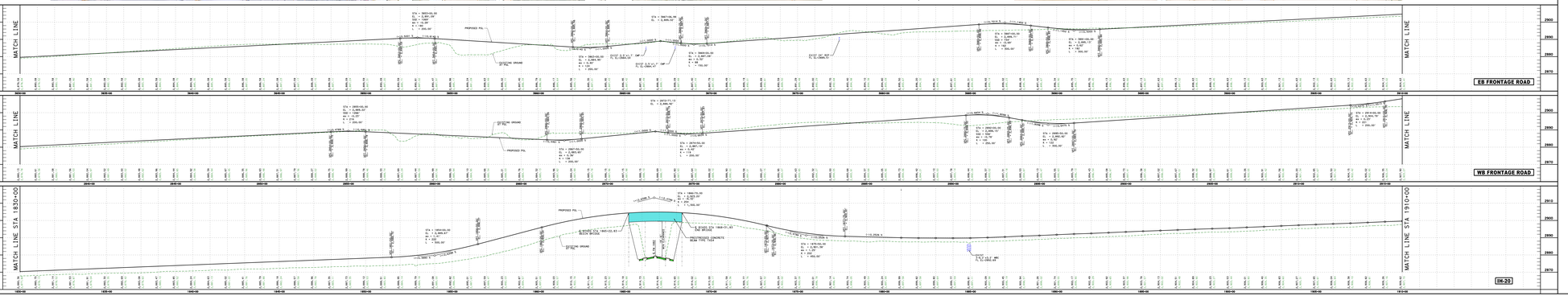




TEXAS DEPARTMENT OF TRANSPORTATION
ODESSA DISTRICT

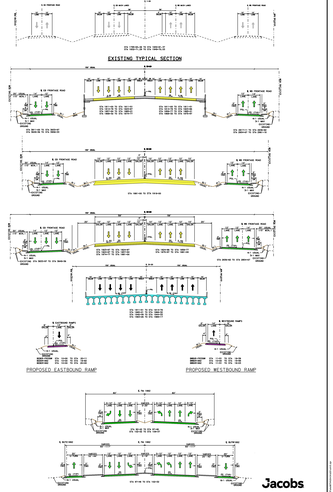
DESIGN SCHEMATIC
JOHN R. SPEED, P.E., DISTRICT ENGINEER
ECTOR/MIDLAND COUNTY
IH 20

PROJECT LIMIT: FROM EAST OF JBS PKWY TO FM1936

CONTROL: 0004-07-124, 0004-07-125, 0005-13-059, 0004-07-128, 0005-13-062, 0004-07-135 , 0005-13-063

PROJECT LENGTH = 8.64 MILES (45,637.7 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
FROM LOCAL TO LOCAL STREETS	55 MPH	URBAN LOCAL STREET
LOOP 338	55 MPH	URBAN PRINCIPAL ARTERIAL
FM 1882	55 MPH	URBAN PRINCIPAL ARTERIAL



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PRELIMINARY FOR DIVISION REVIEW ONLY

ROLL: 4 OF 9

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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 JBS PKWY TO FM1936

CONTROL: 0004-07-124, 0004-07-125, 0005-13-059, 0004-07-128, 0005-13-062, 0004-07-135 , 0005-13-063

PROJECT LENGTH = 8.64 MILES (45,637.7 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
FROM FM 1936 TO LOCAL STREETS	55 MPH	URBAN LOCAL STREET
LOOP 338 W	55 MPH	URBAN PRINCIPAL ARTERIAL
FM 1882	55 MPH	URBAN PRINCIPAL ARTERIAL

TRAFFIC DATA

TRAFFIC VOLUMES BASED ON TRAFFIC STUDY PERFORMED BY HOUSTON-GALVESTON AREA COUNCIL DATED XXX FL, 2XXX	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
- EXPLORED STRUCTURE
- DRIVEWAY
- SIDEWALK
- 100 YR FLOODPLAIN
- DIRECTION OF TRAFFIC
- OMNISTONE ALIGNMENT NAME
- OMNISTONE 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 (C PCPNT)
- OMNISTONE 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 SURVEY OF AERIAL (JANUARY).
2. EXISTING TOPOGRAPHY WAS OBTAINED FROM PROVIDED BY THE TEXAS DEPARTMENT OF TRANSPORTATION ON JANUARY 16, 2018.
3. EXISTING RIGHT-OF-WAY SHOWN WAS DEVELOPED FROM RECORDS 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 26, 2009.
6. EXISTING UTILITIES SHOWN WERE OBTAINED FROM SUBMITTED DATA 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 HALLEY ASSOCIATES, INC. (JULY, 2018)

PROJECT LOCATION MAP
NTS

ROLL: 5 OF 9

SHEET INDEX:

SHEET 1 - TITLE SHEET
SHEET 2 - PLAN VIEW (STA 104+00 TO STA 1910+00)
SHEET 3 - PLAN VIEW (STA 1910+00 TO STA 1965+00)
SHEET 4 - PROFILE VIEW (STA 1910+00 TO STA 1965+00)
SHEET 5 - PROFILE VIEW (STA 1910+00 TO STA 1965+00)
SHEET 6 - PROFILE VIEW (STA 1910+00 TO STA 1965+00)
SHEET 7 - PROFILE VIEW (STA 1910+00 TO STA 1965+00)
SHEET 8 - PROFILE VIEW (STA 1910+00 TO STA 1965+00)
SHEET 9 - PROFILE VIEW (STA 1910+00 TO STA 1965+00)

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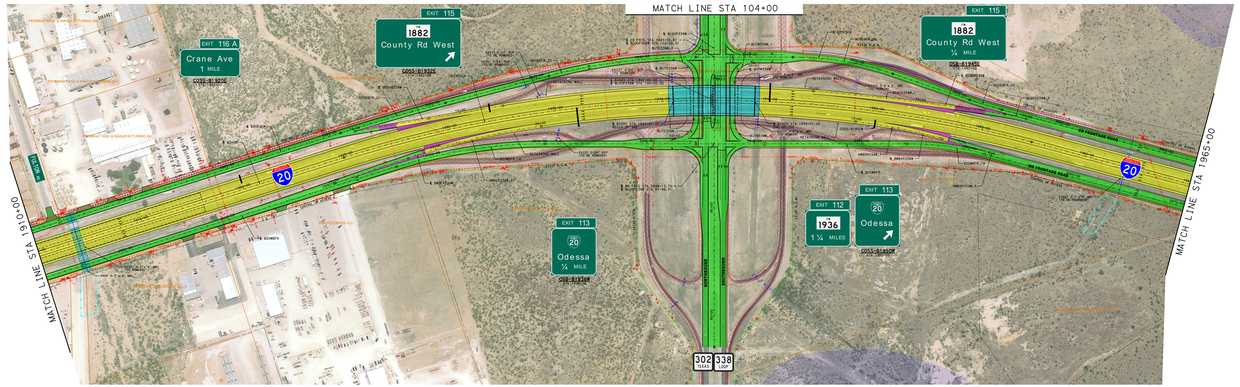
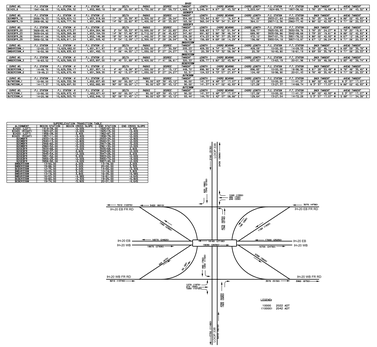
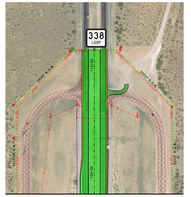
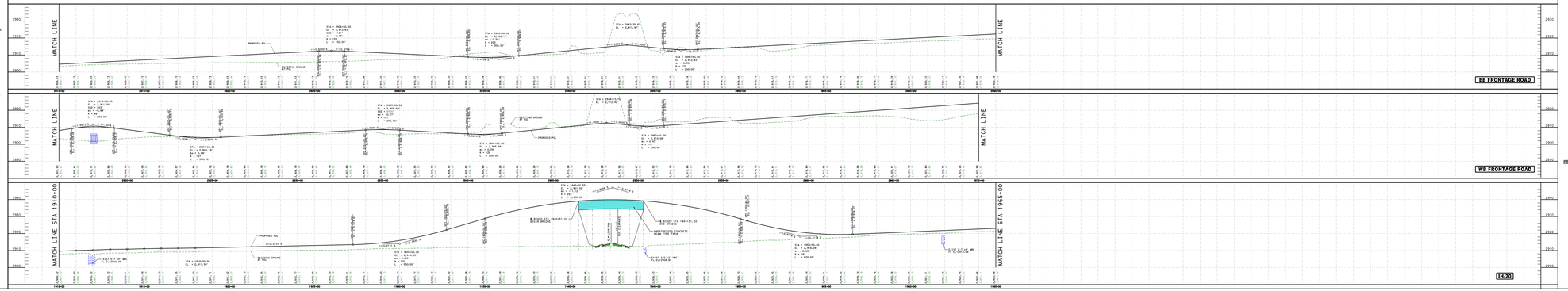








TEXAS DEPARTMENT OF TRANSPORTATION
ODESSA DISTRICT

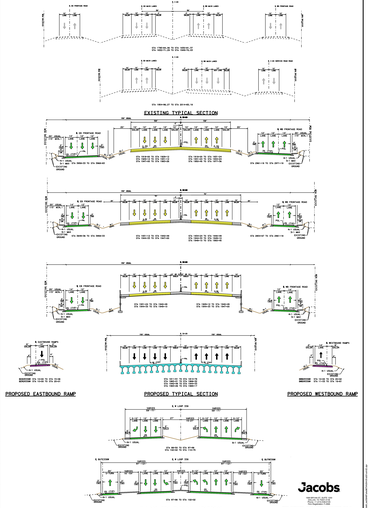
DESIGN SCHEMATIC
JOHN R. SPEED, P.E., DISTRICT ENGINEER
ECTOR/MIDLAND COUNTY
IH 20

PROJECT LIMIT: FROM EAST OF JBS PKWY TO FM1936

CONTROL: 0004-07-124, 0004-07-125, 0005-13-059, 0004-07-128, 0005-13-062, 0004-07-135 , 0005-13-063

PROJECT LENGTH = 8.64 MILES (45,637.7 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
FROM FM 1936 TO LOCAL STREETS	55 MPH	URBAN LOCAL STREET
LOOP 338 W	55 MPH	URBAN PRINCIPAL ARTERIAL
FM 1882	55 MPH	URBAN PRINCIPAL ARTERIAL



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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 JBS PKWY TO FM1936

CONTROL: 0004-07-124, 0004-07-125, 0005-13-059, 0004-07-128, 0005-13-062, 0004-07-135 , 0005-13-063

PROJECT LENGTH = 8.64 MILES (45,637.7 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
LOOP 338 W	55 MPH	URBAN PRINCIPAL ARTERIAL
FM 1882	55 MPH	URBAN PRINCIPAL ARTERIAL

TRAFFIC DATA

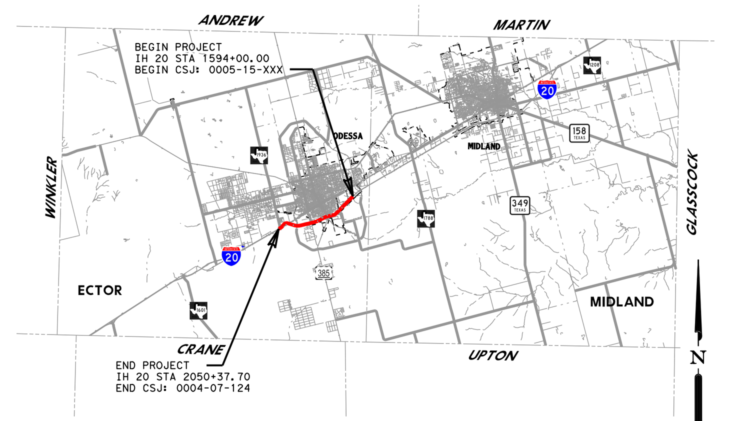
TRAFFIC VOLUMES BASED ON YEAR 2042 PROJECTIONS APPROVED BY TXDOT TP&P DIVISION DATED XXX X, 20XX	IH-20 FM 866 TO E LOOP 338	IH-20 E LOOP 338 TO FM 1208
DIRECTIONAL DISTRIBUTION	52%	52%
PERCENT TRUCKS OF DHV	23.9%	24.5%
K FACTOR	9.1%	9.1%

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)
- 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 9

SHEET INDEX:

ROLL 1: PLAN AND PROFILE-IH 20 STA 1594+00 TO STA 1660+00
ROLL 2: PLAN AND PROFILE-IH 20 STA 1660+00 TO STA 1745+00
ROLL 3: PLAN AND PROFILE-IH 20 STA 1745+00 TO STA 1830+00
ROLL 4: PLAN AND PROFILE-IH 20 STA 1830+00 TO STA 1910+00
ROLL 5: PLAN AND PROFILE-IH 20 STA 1910+00 TO STA 1965+00
ROLL 6: PLAN AND PROFILE-IH 20 STA 1965+00 TO STA 2010+00
ROLL 7: PLAN AND PROFILE-IH 20 STA 2010+00 TO END PROJECT
ROLL 8: PROFILES-RAMPS,CROSS STREETS AND U-TURNS
ROLL 9: PROFILES-RAMPS,CROSS STREETS AND U-TURNS

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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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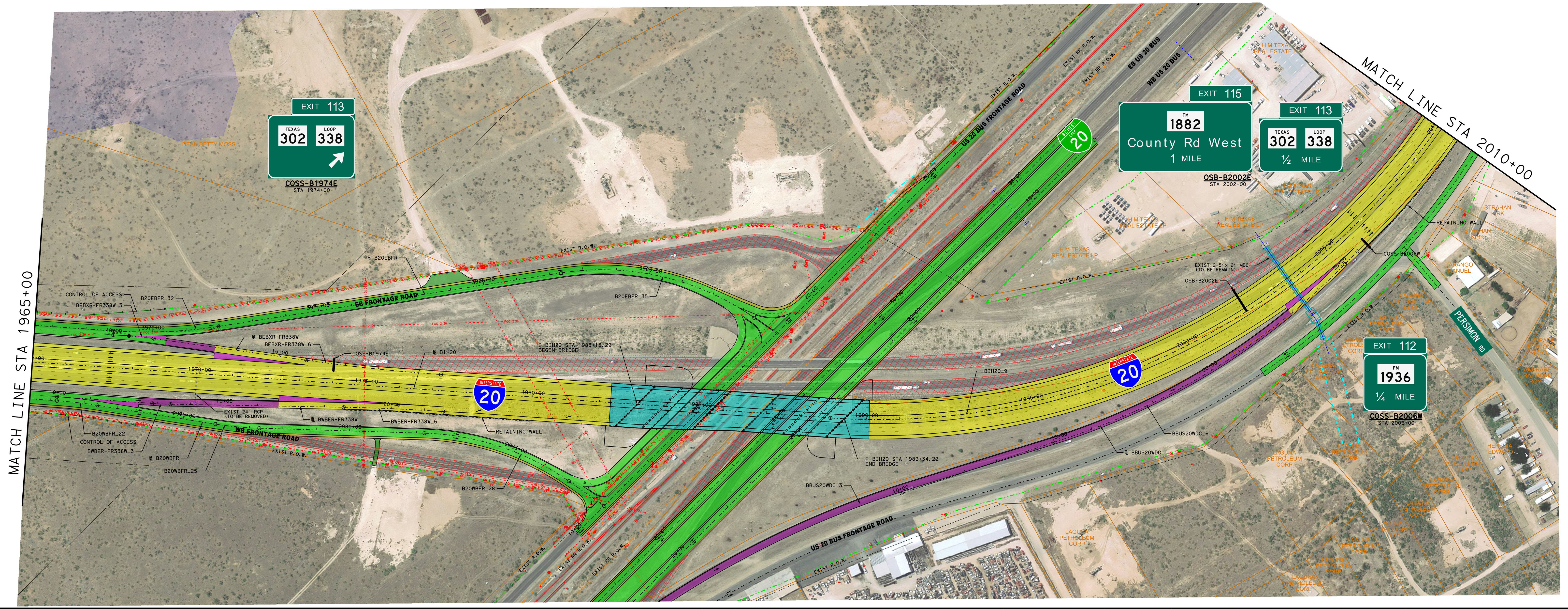
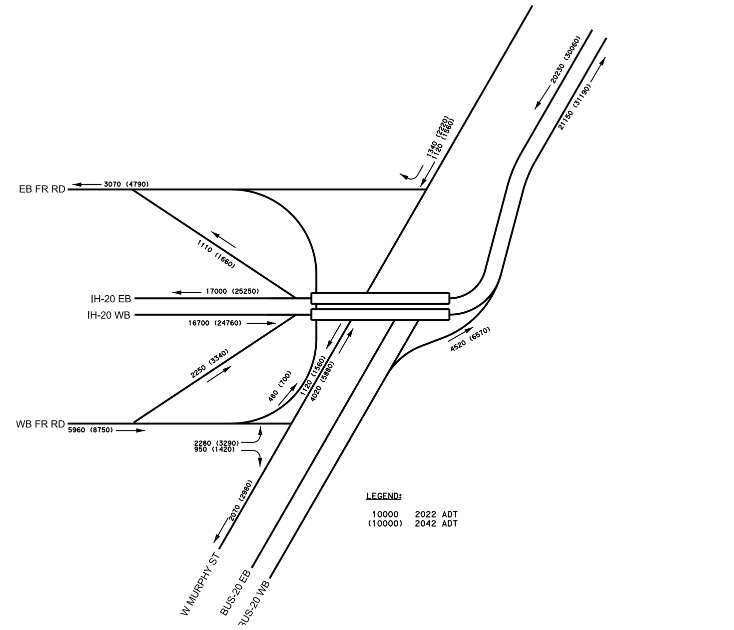


CURVE NO.	P.I. STATION	P.I. STATION - N	P.I. STATION - E	DELTA	RADIUS	DEGREE	TANGENT	LENGTH	CHORD BEARING	CHORD LENGTH	P.C. STATION	P.T. STATION	BACK TANGENT	AHEAD TANGENT
BIH20														
BIH20_9	2003+18.84	10,631,279.74	1,646,968.20	69° 55' 02.64" LT	2,040.00'	2° 48' 31.02"	1,426.23'	2,489.39'	S 73° 55' 45.36" W	2,337.78'	1988+92.60	2013+81.99	N 71° 06' 43.32" W	S 38° 58' 14.04" W
B20WBFR														
B20WBFR_22	2971+79.53	10,630,193.90	1,650,482.44	5° 00' 00.00" RT	1,400.00'	4° 05' 33.20"	61.13'	122.17'	N 68° 36' 20.33" W	122.13'	2971+18.40	2972+40.58	N 71° 06' 20.33" W	N 66° 06' 20.33" W
B20WBFR_25	2976+63.97	10,630,390.16	1,650,039.44	7° 16' 59.53" LT	1,039.00'	5° 30' 52.24"	66.13'	132.07'	N 69° 44' 50.10" W	131.98'	2975+97.85	2977+29.92	N 66° 06' 20.33" W	N 73° 23' 19.86" W
B20WBFR_28	2984+61.17	10,630,618.10	1,649,275.35	33° 16' 16.03" RT	794.00'	7° 12' 57.94"	237.24'	461.07'	N 56° 45' 11.84" W	454.62'	2982+23.93	2986+85.00	N 73° 23' 19.86" W	N 40° 07' 03.83" W
B20EBFR														
B20EBFR_32	3970+40.76	10,630,067.27	1,650,173.04	12° 52' 49.57" LT	1,400.00'	4° 05' 33.20"	158.03'	314.73'	N 77° 32' 45.12" W	314.07'	3968+82.73	3971+97.46	N 71° 06' 20.33" W	N 83° 59' 09.91" W
B20EBFR_35	3985+53.96	10,630,225.95	1,648,666.84	43° 52' 06.08" RT	794.00'	7° 12' 57.94"	319.74'	607.92'	N 62° 03' 06.87" W	593.18'	3982+34.22	3988+42.15	N 83° 59' 09.91" W	N 40° 07' 03.83" W
BWBER-FR338W														
BWBER-FR338W_3	13+12.68	10,630,264.00	1,650,240.56	3° 00' 07.46" LT	1,050.00'	5° 27' 24.27"	27.51'	55.02'	N 72° 36' 24.06" W	55.01'	12+85.16	13+40.18	N 71° 06' 20.33" W	N 74° 06' 27.79" W
BWBER-FR338W_6	20+06.91	10,630,454.11	1,649,572.85	2° 59' 44.48" RT	5,700.00'	1° 00' 18.68"	149.05'	298.02'	N 72° 36' 35.56" W	297.99'	18+57.87	21+55.89	N 74° 06' 27.79" W	N 71° 06' 43.32" W
BEBXR-FR338W														
BEBXR-FR338W_3	10+84.22	10,630,054.72	1,650,246.75	4° 03' 56.14" RT	1,050.00'	5° 27' 24.27"	37.27'	74.51'	N 69° 04' 22.26" W	74.49'	10+46.95	11+21.46	N 71° 06' 20.33" W	N 67° 02' 24.19" W
BEBXR-FR338W_6	17+84.73	10,630,327.99	1,649,601.71	4° 04' 16.92" LT	5,700.00'	1° 00' 18.68"	202.60'	405.03'	N 69° 04' 32.65" W	404.95'	15+82.13	19+87.17	N 67° 02' 24.19" W	N 71° 06' 41.11" W
BBUS20WDC														
BBUS20WDC_3	20+04.83	10,631,037.33	1,647,166.27	28° 07' 45.76" LT	2,102.00'	2° 43' 32.79"	526.61'	1,031.98'	S 73° 27' 38.66" W	1,021.64'	14+78.22	25+10.20	S 87° 31' 31.54" W	S 59° 23' 45.78" W

SUPERELEVATION TRANSITION TABLE

ALIGNMENT	BEGIN STATION	BEGIN CROSS SLOPE	END STATION	END CROSS SLOPE
BIH20 (RIGHT)	1982+68.00	-2.00%	1992+28.00	6.00%
BIH20 (LEFT)	1985+80.00	-2.00%	1990+60.00	-6.00%
B20WBFR	2970+66.00	-2.00%	2971+44.00	-5.20%
B20WBFR	2972+16.00	-5.20%	2972+92.00	-2.00%
B20WBFR	2985+85.00	-2.00%	2986+81.00	-6.00%
B20WBFR	2987+06.00	-6.00%	2987+98.00	-2.15%
B20EBFR	3968+31.00	-2.00%	3969+08.00	-5.20%
B20EBFR	3971+72.00	-5.20%	3972+49.00	-2.00%
B20EBFR	3986+34.00	-2.00%	3988+26.00	6.00%
B20EBFR	3989+88.00	6.00%	3990+89.00	1.79%
BWBER-FR338W	11+25.00	2.00%	13+09.00	-5.62%
BWBER-FR338W	13+17.00	-5.62%	15+11.00	2.50%
BEBXR-FR338W	10+00.00	-2.68%	10+75.00	-5.80%
BEBXR-FR338W	10+94.00	-5.80%	12+93.00	2.50%
BBUS20WDC	10+00.00	4.20%	10+53.00	2.00%
BBUS20WDC	13+49.00	2.00%	14+98.00	-4.20%
BBUS20WDC	24+90.00	-4.20%	25+33.00	-6.00%



N
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
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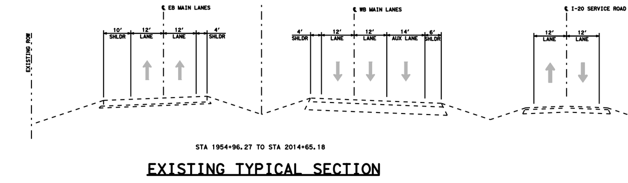
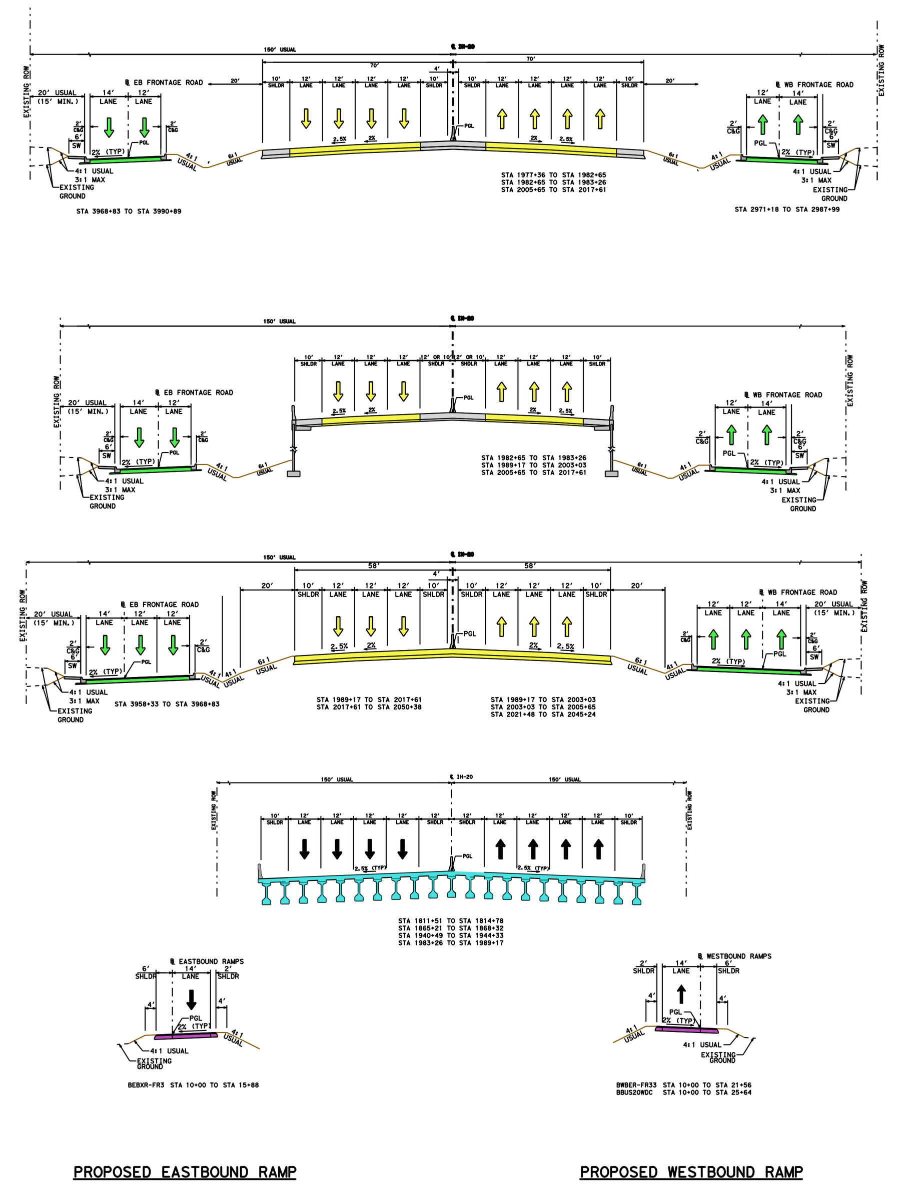
PROJECT LIMIT: FROM EAST OF JBS PKWY TO FM1936
CONTROL: 0004-07-124, 0004-07-125, 0005-13-059, 0004-07-128, 0005-13-062, 0004-07-135 , 0005-13-063
PROJECT LENGTH = 8.64 MILES (45,637.7 FT)
ROADWAY TYPE / DESIGN SPEED / FUNCTIONAL CLASSIFICATION
FREEWAY 70 MPH URBAN FREEWAY
RAMPS 50 MPH URBAN PRINCIPAL ARTERIAL
FRONTAGE ROADS 45 MPH URBAN MAJOR COLLECTOR
CROSS STREETS/LOCAL STREETS 35 MPH URBAN LOCAL STREET
LOOP 338 W 55 MPH URBAN PRINCIPAL ARTERIAL
FM 1882 55 MPH URBAN PRINCIPAL ARTERIAL



EXISTING TYPICAL SECTION



PROPOSED EASTBOUND RAMP

PROPOSED WESTBOUND RAMP

PROPOSED TYPICAL SECTION

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WILL BARRESI, P.E. 90856 4/10/2020
GRANT WU, P.E. 89529 4/10/2020
ROLL: 6 OF 9
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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 JBS PKWY TO FM1936

CONTROL: 0004-07-124, 0004-07-125, 0005-13-059, 0004-07-128, 0005-13-062, 0004-07-135 , 0005-13-063

PROJECT LENGTH = 8.64 MILES (45,637.7 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
LOOP 338 & LOCAL STREETS	55 MPH	URBAN LOCAL STREETS
LOOP 338 W	55 MPH	URBAN PRINCIPAL ARTERIAL
FM 1882	55 MPH	URBAN PRINCIPAL ARTERIAL

TRAFFIC DATA

TRAFFIC VOLUMES BASED ON TRAFFIC STUDY PREPARED BY PARSONS BRINCKERHOFF DATED XXX 9, 2008		
	LOC-1D FM 866 TO E LOOP 338	LOC-2D 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
- 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 (COA)
- PROPOSED RIGHT-OF-WAY (R.O.W.)
- PROPOSED CONTROL-OF-ACCESS (BY PERMIT)
- 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 PARTIS SURVS OF AUSTIN, UNIVERSITY.
2. EXISTING TOPOGRAPHY SHOWN WAS OBTAINED BY THE TEXAS DEPARTMENT OF TRANSPORTATION ON JANUARY 15, 2014.
3. EXISTING RIGHT-OF-WAY SHOWN WAS DEVELOPED FROM RECORDS OBTAINED FROM THE 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. PROPOSED DRAINAGE SHOWN IS SHOWN ON SCHEMATIC OBTAINED FROM CITIES OF MIDLAND AND ODESSA, DRAINAGE COORDINATOR, 9/2/2008.
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: 7 OF 9

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SHEET 2 - TYPICAL SECTIONS
SHEET 3 - TYPICAL SECTIONS
SHEET 4 - TYPICAL SECTIONS
SHEET 5 - TYPICAL SECTIONS
SHEET 6 - TYPICAL SECTIONS
SHEET 7 - TYPICAL SECTIONS
SHEET 8 - TYPICAL SECTIONS
SHEET 9 - PROPOSED COMPLEXED STRUCTURE

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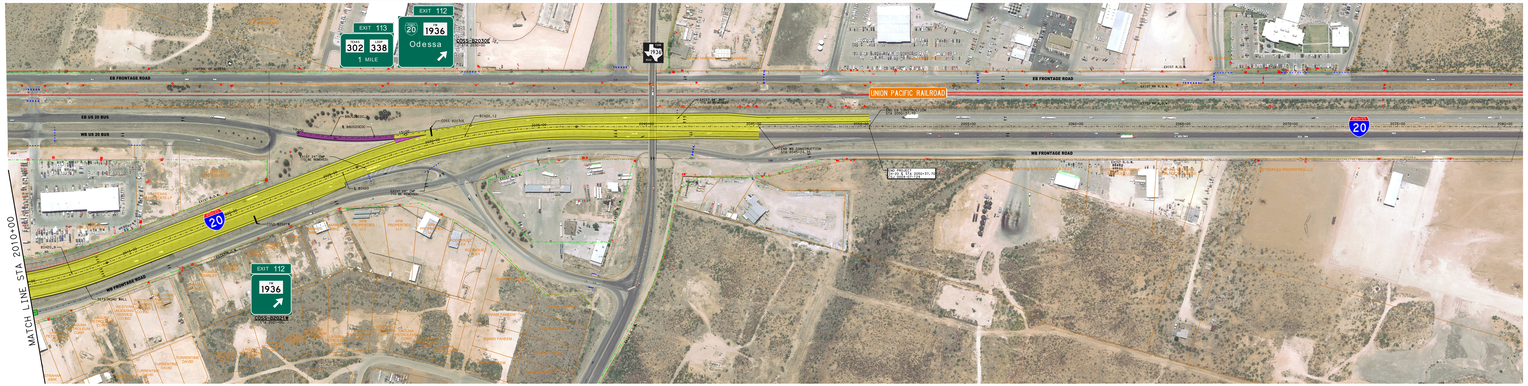
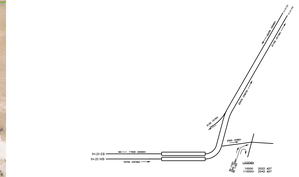
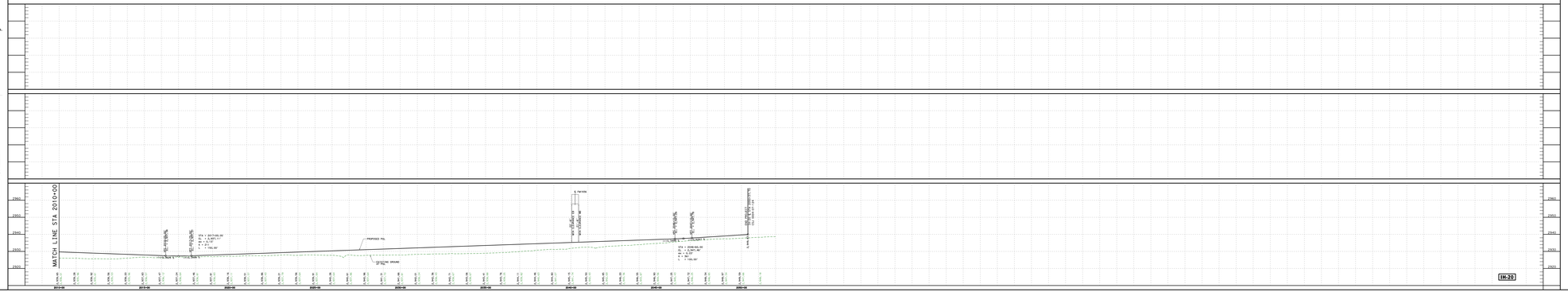






TEXAS DEPARTMENT OF TRANSPORTATION
ODESSA DISTRICT

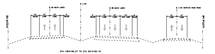
DESIGN SCHEMATIC
JOHN R. SPEED, P.E., DISTRICT ENGINEER
ECTOR/MIDLAND COUNTY
IH 20

PROJECT LIMIT: FROM EAST OF JBS PKWY TO FM1936

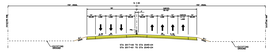
CONTROL: 0004-07-124, 0004-07-125, 0005-13-059, 0004-07-128, 0005-13-062, 0004-07-135 , 0005-13-063

PROJECT LENGTH = 8.64 MILES (45,637.7 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
LOOP 338 & LOCAL STREETS	55 MPH	URBAN LOCAL STREETS
LOOP 338 W	55 MPH	URBAN PRINCIPAL ARTERIAL
FM 1882	55 MPH	URBAN PRINCIPAL ARTERIAL



EXISTING TYPICAL SECTION



PROPOSED EASTBOUND RAMP

PROPOSED WESTBOUND RAMP

PROPOSED TYPICAL SECTION

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ROLL: 7 OF 9

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TEXAS DEPARTMENT OF TRANSPORTATION
ODESSA DISTRICT

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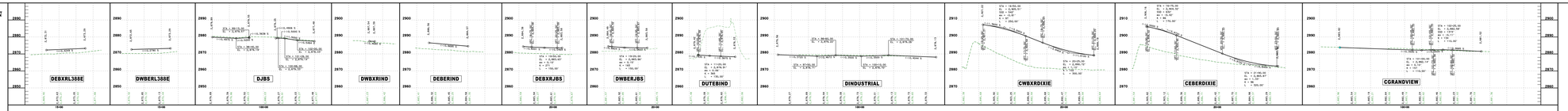
IH 20

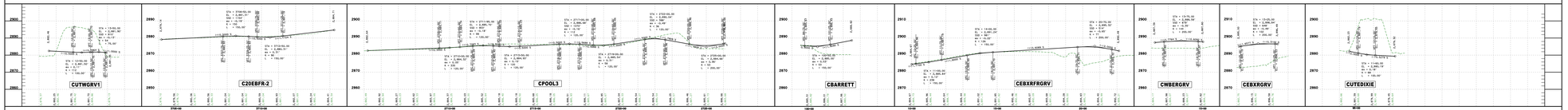
PROJECT LIMIT: FROM EAST OF JBS PKWY TO FM1936

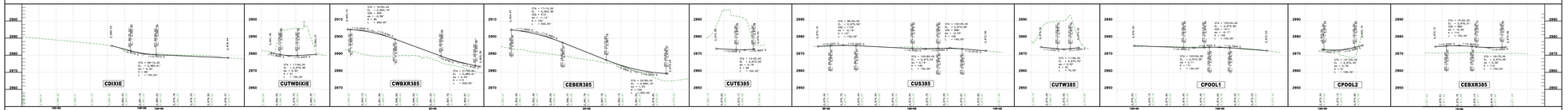
CONTROL: 0004-07-124, 0004-07-125, 0005-13-059, 0004-07-128, 0005-14-084, 0005-067, 0005-14-086 , 0005-13-060, 0005-14-087

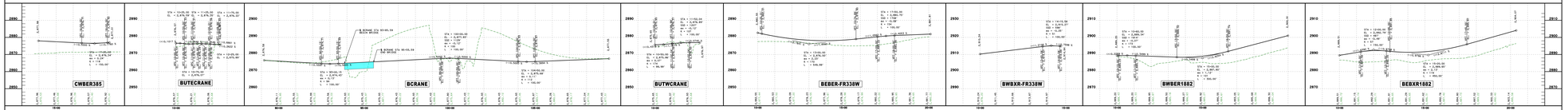
PROJECT LENGTH = 8.64 MILES (45,637.7 FT)

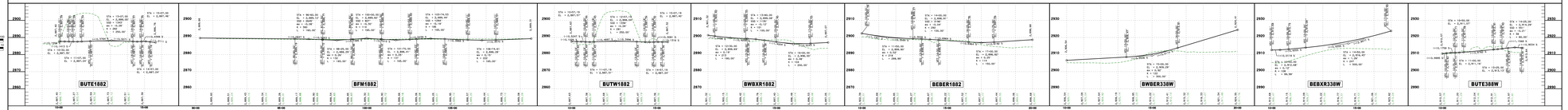
ROADWAY TYPE	DESIGN SPEED	FUNCTIONAL CLASSIFICATION
FREEWAY	55 MPH	URBAN FREEWAY
RAMPS	55 MPH	URBAN PRINCIPAL ARTERIAL
FRONTAGE ROADS	55 MPH	URBAN PRINCIPAL ARTERIAL
CROSS STREETS/LOCAL STREETS	35 MPH	URBAN LOCAL STREET
W LOOP 338	55 MPH	URBAN PRINCIPAL ARTERIAL
FM 1882	55 MPH	URBAN PRINCIPAL ARTERIAL











PROJECT LOCATION MAP
NTS

ROLL: 8 OF 9

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SHEET 1 OF 9: DEBXRL388E, DWBERL388E, DJBS, DWBXRIND, DEBERIND, DEBXRJBS, DWBERJBS, DUTEBIND, DINDUSTRIAL, CWBXRDIXIE, CEBERDIXIE, CGRANDVIEW
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SHEET 3 OF 9: CDIXIE, CUTWDIXIE, CWBXR385, CEBER385, CUTE385, CUS385, CUTW385, CPOOL1, CPOOL2, CEBXR385
SHEET 4 OF 9: CWBER385, BUTECRANE, BCRANE, BUTWCRANE, BEBER-FR338W, BWBXR-FR338W, BWBER1882, BEBXR1882
SHEET 5 OF 9: BUTE1882, BFM1882, BUTW1882, BWBXR1882, BEBER1882, BWBER338W, BEBXR338W, BUTE338W

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

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TEXAS DEPARTMENT OF TRANSPORTATION
ODESSA DISTRICT
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JOHN R. SPEED, P.E., DISTRICT ENGINEER
ECTOR/MIDLAND COUNTY
IH 20
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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
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FRONTAGE ROADS / 55 MPH / URBAN PRINCIPAL ARTERIAL
CROSS STREETS/LOCAL STREETS / 35 MPH / URBAN LOCAL STREET
W LOOP 338 / 55 MPH / URBAN PRINCIPAL ARTERIAL
FM 1882 / 55 MPH / URBAN PRINCIPAL ARTERIAL
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ROLL: 8 OF 9
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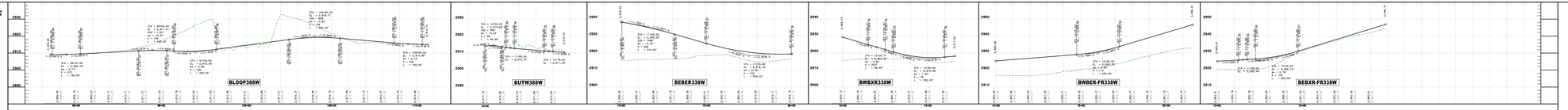

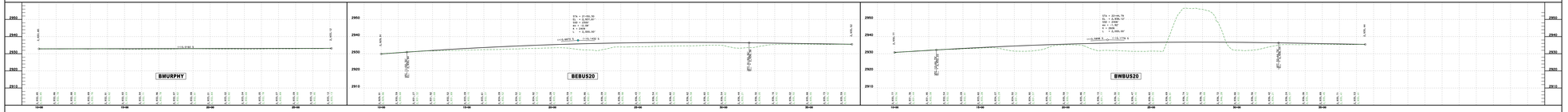

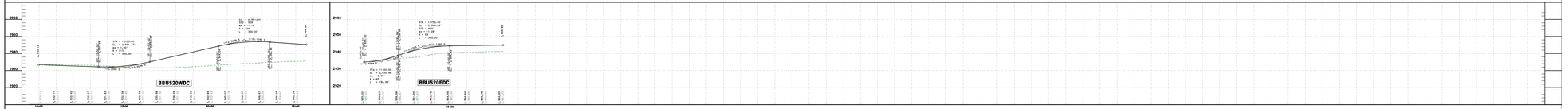

PROJECT LOCATION MAP
NTS

ROLL: 9 OF 9

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SHEET 2 - BUTW38BW
SHEET 3 - BEBER338W
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SHEET 7 - BMURPHY
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SHEET 9 - BWBUS20
SHEET 10 - BBUS20WDC
SHEET 11 - BBUS20EDC

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

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THE TEXAS DEPARTMENT OF TRANSPORTATION

PLAN PREPARED BY:	J. SMITH	DATE:	10/15/2020
PLAN REVIEWED BY:		DATE:	
DESIGN ENGINEER:		DATE:	
DISTRICT ENGINEER:		DATE:	

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PLAN PREPARED BY: J. SMITH DATE: 10/15/2020
ROLL: 9 OF 9
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