PRELIMINARY DESIGN SCHEMATIC OF MOPAC SOUTH ENVIRONMENTAL STUDY

CSJ#: 3136-01-116

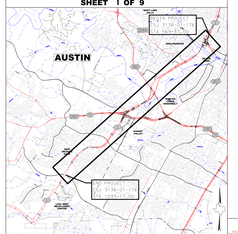
NET LENGTH OF PROJECT = 46,350 FT = 8.77 MI.,

SCOPE OF WORK: ADDITION OF EXPRESS LANES IN THE MEDIAN, GENERAL PURPOSE LANE OPERATIONAL IMPROVEMENTS, AND ASSOCIATED RAMPS AND INTERCHANGE MODIFICATIONS.

TRAVIS COUNTY

LIMITS: CESAR CHAVEZ ST TO SLAUGHTER LANE

SHEET 1 OF 9



EQUATIONS: ALIGNMENT BL/EP1
STA 661+52.29 BK = STA 661+27.90 AH,
STA 836+52.18 BK = STA 834+66.57 AH
FUNCTIONAL CLASSIFICATION: URBAN FREEWAY
TERRAIN: ROLLING
EXPRESS/GENERAL PURPOSE LANE DESIGN SPEED: 50 MPH
COLLECTOR - DISTRIBUTOR ROAD DESIGN SPEED: 40 MPH
DIRECT CONNECTOR DESIGN SPEED: 40 MPH
RAMP DESIGN SPEED: 40 MPH
MAX SUPERELEVATION: 4%
EXISTING ADT (2018): CESAR CHAVEZ ST TO US 290 - 161,500 VPD
US 290 TO SLAUGHTER LANE - 94,500 VPD
PROJECTED ADT (2046): CESAR CHAVEZ ST TO US 290 - 221,000 VPD
US 290 TO SLAUGHTER LANE - 130,800 VPD

PRELIMINARY
NOT TO BE USED FOR CONSTRUCTION, BIDDING, OR PERMITTING

P.E. LIBERAL NO. _____ DATE _____

NAME OF REGISTERED ENGINEER

NOT FOR CONSTRUCTION, BIDDING, OR PERMITTING

BEARING BASED ON THE TEXAS STATE PLANE COORDINATE SYSTEM, NAD 83 (2011), CENTRAL ZONE (4203). ALL DISTANCES SHOWN ARE SURFACE ADJUSTMENT FACTOR (1.00011).

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

MoPac South

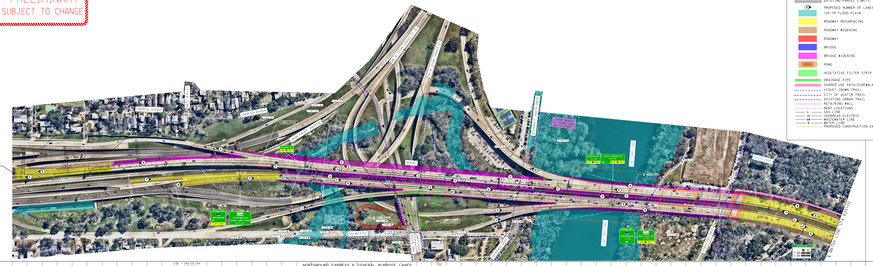
Mobility Authority

Texas Department of Transportation

AtkinsRéalis

ATKINSRÉALIS USA, INC.
11200 LAKELINE BOULEVARD, SUITE 500
AUSTIN, TX 78717
TBPE REG. F-474

PRELIMINARY
SUBJECT TO CHANGE



LEGEND
- EXISTING RIGHT-OF-WAY
- EXISTING PARCEL LIMITS
- PROPOSED NUMBER OF LANES
- 100-YR FLOOD PLAIN
- ROADWAY RESURFACING
- ROADWAY WIDENING
- ROADWAY
- BRIDGE
- BRIDGE WIDENING
- POND
- VEGETATIVE FILTER STRIP
- DRAINAGE PIPE
- HIKE & BIKE PATH/SIDEWALK
- VIOLET CROWN TRAIL
- CITY OF AUSTIN TRAIL
- TRAVIS COUNTY TRAIL
- RETAINING WALL
- BENT LOCATIONS
- RAMP
- OVERHEAD SIGNING
- MICRO-SITE
- PROPOSED CONSTRUCTION EASEMENT

Describe Chain: BL/EP1

BL/EP1	BL/EP1	BL/EP1	BL/EP1	BL/EP1
BEGIN PROJECT CSJ: 3136-01-116 STA 569+87.00	STA 661+52.29 BK = STA 661+27.90 AH	STA 836+52.18 BK = STA 834+66.57 AH	END PROJECT CSJ: 3136-01-116 STA 1033+37.00	

Describe Chain: NBEL/EP1

BL/EP1	NBEL/EP1	NBEL/EP1	NBEL/EP1	BL/EP1
BEGIN PROJECT CSJ: 3136-01-116 STA 569+87.00	STA 661+52.29 BK = STA 661+27.90 AH	STA 836+52.18 BK = STA 834+66.57 AH	END PROJECT CSJ: 3136-01-116 STA 1033+37.00	

Describe Chain: SBEL/EP1

BL/EP1	SBEL/EP1	SBEL/EP1	SBEL/EP1	BL/EP1
BEGIN PROJECT CSJ: 3136-01-116 STA 569+87.00	STA 661+52.29 BK = STA 661+27.90 AH	STA 836+52.18 BK = STA 834+66.57 AH	END PROJECT CSJ: 3136-01-116 STA 1033+37.00	

Describe Chain: SBRAMP

BL/EP1	SBRAMP	SBRAMP	SBRAMP	BL/EP1
BEGIN PROJECT CSJ: 3136-01-116 STA 569+87.00	STA 661+52.29 BK = STA 661+27.90 AH	STA 836+52.18 BK = STA 834+66.57 AH	END PROJECT CSJ: 3136-01-116 STA 1033+37.00	

Describe Chain: BRDG

BL/EP1	BRDG	BRDG	BRDG	BL/EP1
BEGIN PROJECT CSJ: 3136-01-116 STA 569+87.00	STA 661+52.29 BK = STA 661+27.90 AH	STA 836+52.18 BK = STA 834+66.57 AH	END PROJECT CSJ: 3136-01-116 STA 1033+37.00	

Describe Chain: SBELRAMP

BL/EP1	SBELRAMP	SBELRAMP	SBELRAMP	BL/EP1
BEGIN PROJECT CSJ: 3136-01-116 STA 569+87.00	STA 661+52.29 BK = STA 661+27.90 AH	STA 836+52.18 BK = STA 834+66.57 AH	END PROJECT CSJ: 3136-01-116 STA 1033+37.00	

Describe Chain: SBRDGRAMP

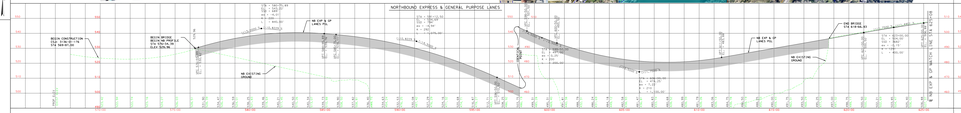
BL/EP1	SBRDGRAMP	SBRDGRAMP	SBRDGRAMP	BL/EP1
BEGIN PROJECT CSJ: 3136-01-116 STA 569+87.00	STA 661+52.29 BK = STA 661+27.90 AH	STA 836+52.18 BK = STA 834+66.57 AH	END PROJECT CSJ: 3136-01-116 STA 1033+37.00	

Describe Chain: NBRDGRAMP

BL/EP1	NBRDGRAMP	NBRDGRAMP	NBRDGRAMP	BL/EP1
BEGIN PROJECT CSJ: 3136-01-116 STA 569+87.00	STA 661+52.29 BK = STA 661+27.90 AH	STA 836+52.18 BK = STA 834+66.57 AH	END PROJECT CSJ: 3136-01-116 STA 1033+37.00	

Describe Chain: NBRAMP

BL/EP1	NBRAMP	NBRAMP	NBRAMP	BL/EP1
BEGIN PROJECT CSJ: 3136-01-116 STA 569+87.00	STA 661+52.29 BK = STA 661+27.90 AH	STA 836+52.18 BK = STA 834+66.57 AH	END PROJECT CSJ: 3136-01-116 STA 1033+37.00	


NORTHBOUND EXPRESS & GENERAL PURPOSE LANES
BEGIN CONSTRUCTION CSJ: 3136-01-116 STA 569+87.00
BEGIN PROPOSED SECTION OF MOPAC SOUTH CLEAR ZONE IMPROVEMENTS
NB EXISTING MOPAC
NB EXISTING GRADE
NB EXISTING BRIDGE
NB EXISTING BRIDGE
NB EXISTING BRIDG

PRELIMINARY DESIGN SCHEMATIC OF MOPAC SOUTH ENVIRONMENTAL STUDY

CSJ#: 0700-24-166

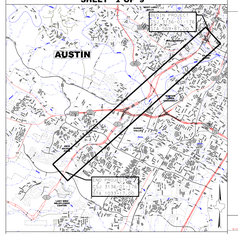
NET LENGTH OF PROJECT = 46,350 FT = 8.77 MI.

SCOPE OF WORK: ADDITION OF EXPRESS LANES IN THE MEDIAN, GENERAL PURPOSE LANE OPERATIONAL IMPROVEMENTS, AND ASSOCIATED RAMPS AND INTERCHANGE MODIFICATIONS.

TRAVIS COUNTY

LIMITS: CESAR CHAVEZ ST TO SLAUGHTER LANE

SHEET 2 OF 9


AUSTIN
CESAR CHAVEZ ST
SLAUGHTER LANE
MOPAC SOUTH
MOPAC SOUTH
MOPAC SOUTH

PRELIMINARY DESIGN SCHEMATIC OF MOPAC SOUTH ENVIRONMENTAL STUDY

LOCAL GOVERNMENT PROJECT NO. 0914-04-174

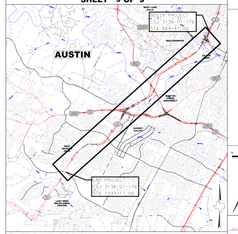
NET LENGTH OF PROJECT = 46,350 FT = 8.77 MI.

SCOPE OF WORK: ADDITION OF EXPRESS LANES IN THE MEDIAN, GENERAL PURPOSE LANE OPERATIONAL IMPROVEMENTS, AND ASSOCIATED RAMPS AND INTERCHANGE MODIFICATIONS.

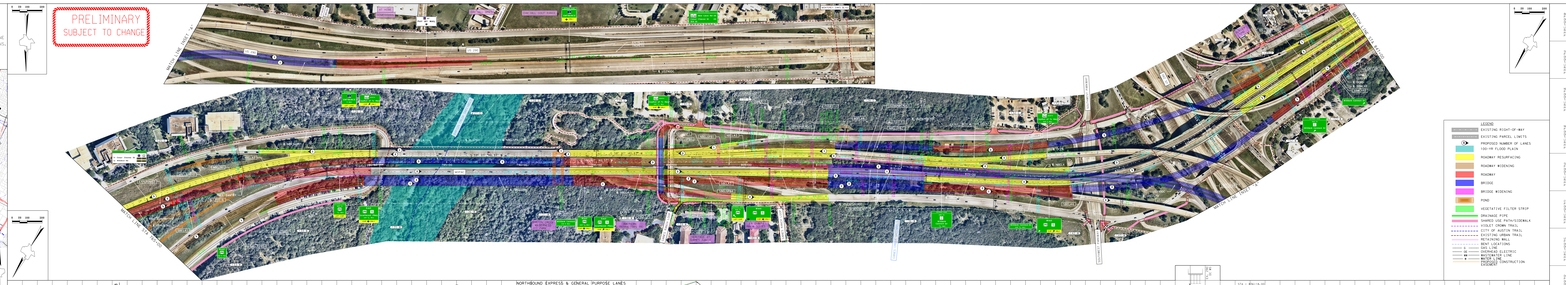
TRAVIS COUNTY

LIMITS: CESAR CHAVEZ ST TO SLAUGHTER LANE

SHEET 3 OF 9



PRELIMINARY
SUBJECT TO CHANGE



EQUATIONS: ALIGNMENT BL=PO1
STA 661+32.09 BK = STA 661+27.90 AH
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FUNCTIONAL CLASSIFICATION: URBAN FREEWAY
TERRAIN: ROLLING
EXPRESS/GENERAL PURPOSE LANE DESIGN SPEED: 50 MPH
COLLECTOR - DISTRIBUTOR ROAD DESIGN SPEED: 40 MH
DIRECT CONNECTOR DESIGN SPEED: 40 MPH
RAMP DESIGN SPEED: 40 MPH
MAX SUPERELEVATION: 8%
EXISTING ADT (2018): CESAR CHAVEZ ST TO US 290 – 161,500 VPD
US 290 TO SLAUGHTER LANE – 94,500 VPD
PROJECTED ADT (2046): CESAR CHAVEZ ST TO US 290 – 221,000 VPD
US 290 TO SLAUGHTER LANE – 133,800 VPD

PRELIMINARY
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RELEASED FOR THE PURPOSE OF INTERIM REVIEW ONLY
NOT FOR CONSTRUCTION, BIDDING OR PERMITTING
BEARING BASED ON THE TEXAS STATE PLANE COORDINATE SYSTEM, NAD 83 (2011) EPOCH 2010. ALL DISTANCES AND ELEVATIONS SHOWN ARE SURFACE ADJUSTMENT FACTOR (1.00011).
SCALE: 1"=100' H
1"=10' V

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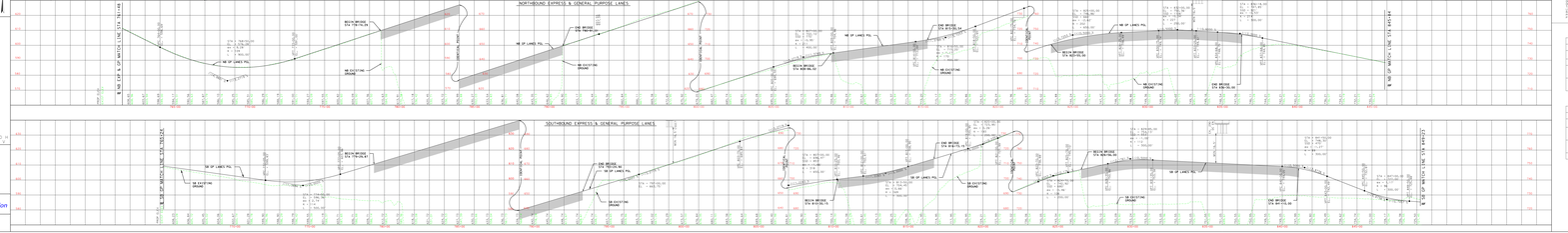


Design Flow Chart: BLUPO1

DIRECTION	DESIGN YEAR	AM PEAK	MD PEAK	PM PEAK	OP PEAK
NB MAIN LANES	2026	4,100	3,100	4,100	3,100
	2046	5,100	4,000	5,100	4,000
SB MAIN LANES	2026	4,100	3,100	4,100	3,100
	2046	5,100	4,000	5,100	4,000

Design Flow Chart: SBELUP1

DIRECTION	DESIGN YEAR	AM PEAK	MD PEAK	PM PEAK	OP PEAK
SB MAIN LANES	2026	4,100	3,100	4,100	3,100
	2046	5,100	4,000	5,100	4,000

Design Flow Chart: SBELU2

DIRECTION	DESIGN YEAR	AM PEAK	MD PEAK	PM PEAK	OP PEAK
SB MAIN LANES	2026	4,100	3,100	4,100	3,100
	2046	5,100	4,000	5,100	4,000

Design Flow Chart: EXPLP02

DIRECTION	DESIGN YEAR	AM PEAK	MD PEAK	PM PEAK	OP PEAK
NB MAIN LANES	2026	4,100	3,100	4,100	3,100
	2046	5,100	4,000	5,100	4,000
SB MAIN LANES	2026	4,100	3,100	4,100	3,100
	2046	5,100	4,000	5,100	4,000

Design Flow Chart: NBELU2A

DIRECTION	DESIGN YEAR	AM PEAK	MD PEAK	PM PEAK	OP PEAK
NB MAIN LANES	2026	4,100	3,100	4,100	3,100
	2046	5,100	4,000	5,100	4,000

Design Flow Chart: NBELU2B

DIRECTION	DESIGN YEAR	AM PEAK	MD PEAK	PM PEAK	OP PEAK
NB MAIN LANES	2026	4,100	3,100	4,100	3,100
	2046	5,100	4,000	5,100	4,000

Design Flow Chart: NBEXPRP

DIRECTION	DESIGN YEAR	AM PEAK	MD PEAK	PM PEAK	OP PEAK
NB MAIN LANES	2026	4,100	3,100	4,100	3,100
	2046	5,100	4,000	5,100	4,000

Design Flow Chart: NBEXPRP

DIRECTION	DESIGN YEAR	AM PEAK	MD PEAK	PM PEAK	OP PEAK
NB MAIN LANES	2026	4,100	3,100	4,100	3,100
	2046	5,100	4,000	5,100	4,000

Design Flow Chart: SBEXPRP

DIRECTION	DESIGN YEAR	AM PEAK	MD PEAK	PM PEAK	OP PEAK
SB MAIN LANES	2026	4,100	3,100	4,100	3,100
	2046	5,100	4,000	5,100	4,000

Design Flow Chart: SBEXPRP

DIRECTION	DESIGN YEAR	AM PEAK	MD PEAK	PM PEAK	OP PEAK
SB MAIN LANES	2026	4,100	3,100	4,100	3,100
	2046	5,100	4,000	5,100	4,000

Design Flow Chart: EXPLP01

DIRECTION	DESIGN YEAR	AM PEAK	MD PEAK	PM PEAK	OP PEAK
NB MAIN LANES	2026	4,100	3,100	4,100	3,100
	2046	5,100	4,000	5,100	4,000
SB MAIN LANES	2026	4,100	3,100	4,100	3,100
	2046	5,100	4,000	5,100	4,000

Design Flow Chart: USLYNNNBCRC

DIRECTION	DESIGN YEAR	AM PEAK	MD PEAK	PM PEAK	OP PEAK
NB MAIN LANES	2026	4,100	3,100	4,100	3,100
	2046	5,100	4,000	5,100	4,000

Design Flow Chart: USLYNSBCRC

DIRECTION	DESIGN YEAR	AM PEAK	MD PEAK	PM PEAK	OP PEAK
SB MAIN LANES	2026	4,100	3,100	4,100	3,100
	2046	5,100	4,000	5,100	4,000

Design Flow Chart: USLYNSBDRC

DIRECTION	DESIGN YEAR	AM PEAK	MD PEAK	PM PEAK	OP PEAK
SB MAIN LANES	2026	4,100	3,100	4,100	3,100
	2046	5,100	4,000	5,100	4,000

Design Flow Chart: DCEX

DIRECTION	DESIGN YEAR	AM PEAK	MD PEAK	PM PEAK	OP PEAK
NB MAIN LANES	2026	4,100	3,100	4,100	3,100
	2046	5,100	4,000	5,100	4,000

Design Flow Chart: SBMCXT

DIRECTION	DESIGN YEAR	AM PEAK	MD PEAK	PM PEAK	OP PEAK
SB MAIN LANES	2026	4,100	3,100	4,100	3,100
	2046	5,100	4,000	5,100	4,000

Design Flow Chart: SBELMTO

DIRECTION	DESIGN YEAR	AM PEAK	MD PEAK	PM PEAK	OP PEAK
SB MAIN LANES	2026	4,100	3,100	4,100	3,100
	2046	5,100	4,000	5,100	4,000

TABLE OF CROSS SLOPES (1)

NORTHBOUND GENERAL PURPOSE AND EXPRESS LANES

CURVE NAME	STATION	CROSS SLOPE (%) 2026	CROSS SLOPE (%) 2046	NOTES
NBELUP02	700+00	-2.0	-2.0	FULL SUPERELEVATION
	714+50	-2.0	-2.0	TRANSITION
	716+50	-2.0	-2.0	NORMAL CROWN
NBELUP01	716+50	-2.0	-2.0	NORMAL CROWN
	733+50	-2.0	-2.0	TRANSITION
	735+50	-2.0	-2.0	FULL SUPERELEVATION
	750+00	-2.0	-2.0	FULL SUPERELEVATION

TABLE OF CROSS SLOPES (2)

NORTHBOUND EXPRESS LANES

CURVE NAME	STATION	CROSS SLOPE (%) 2026	CROSS SLOPE (%) 2046	NOTES
NBELU2	1716+00	-2.0	-2.0	FULL SUPERELEVATION
	1734+00	-2.0	-2.0	TRANSITION
NBELU1	1734+00	-2.0	-2.0	FULL SUPERELEVATION
	1750+00	-2.0	-2.0	TRANSITION
	1760+00	-2.0	-2.0	NORMAL CROWN
	1804+00	-2.0	-2.0	TRANSITION
	1806+00	-2.0	-2.0	FULL SUPERELEVATION
	1818+00	-2.0	-2.0	FULL SUPERELEVATION
	1819+25	-2.0	-2.0	NORMAL CROWN
NBELNL	1819+25	-2.0	-2.0	TRANSITION
	1822+25	-2.0	-2.0	FULL SUPERELEVATION
	1846+00	-2.0	-2.0	FULL SUPERELEVATION

TABLE OF CROSS SLOPES (3)

NORTHBOUND GENERAL PURPOSE AND EXPRESS LANES

CURVE NAME	STATION	CROSS SLOPE (%) 2026	CROSS SLOPE (%) 2046	NOTES
NBELUP02	700+00	-2.0	-2.0	FULL SUPERELEVATION
	714+50	-2.0	-2.0	TRANSITION
	716+50	-2.0	-2.0	NORMAL CROWN
NBELUP01	716+50	-2.0	-2.0	NORMAL CROWN
	733+50	-2.0	-2.0	TRANSITION
	735+50	-2.0	-2.0	FULL SUPERELEVATION
	750+00	-2.0	-2.0	FULL SUPERELEVATION

TABLE OF CROSS SLOPES (4)

SOUTHBOUND EXPRESS LANES

CURVE NAME	STATION	CROSS SLOPE (%) 2026	CROSS SLOPE (%) 2046	NOTES
SBELU2	1716+00	-2.0	-2.0	FULL SUPERELEVATION
	1734+00	-2.0	-2.0	TRANSITION
SBELU1	1734+00	-2.0	-2.0	NORMAL CROWN
	1750+00	-2.0	-2.0	TRANSITION
	1760+00	-2.0	-2.0	FULL SUPERELEVATION
	1804+00	-2.0	-2.0	FULL SUPERELEVATION
SBELU3A	1806+00	-2.0	-2.0	TRANSITION
	1819+25	-2.0	-2.0	NORMAL CROWN
SBELU3B	1819+25	-2.0	-2.0	TRANSITION
	1822+25	-2.0	-2.0	FULL SUPERELEVATION
	1846+00	-2.0	-2.0	FULL SUPERELEVATION

TABLE OF CROSS SLOPES (5)

SOUTHBOUND GENERAL PURPOSE AND EXPRESS LANES

CURVE NAME	STATION	CROSS SLOPE (%) 2026	CROSS SLOPE (%) 2046	NOTES
SBELU2	1716+00	-2.0	-2.0	FULL SUPERELEVATION
	1734+00	-2.0	-2.0	TRANSITION
SBELU1	1734+00	-2.0	-2.0	NORMAL CROWN
	1750+00	-2.0	-2.0	TRANSITION
	1760+00	-2.0	-2.0	FULL SUPERELEVATION
	1804+00	-2.0	-2.0	FULL SUPERELEVATION
SBELU3A	1806+00	-2.0	-2.0	TRANSITION
	1819+25	-2.0	-2.0	NORMAL CROWN
SBELU3B	1819+25	-2.0	-2.0	TRANSITION
	1822+25	-2.0	-2.0	FULL SUPERELEVATION
	1846+00	-2.0	-2.0	FULL SUPERELEVATION

PRELIMINARY DESIGN SCHEMATIC OF MOPAC SOUTH ENVIRONMENTAL STUDY

LOCAL GOVERNMENT PROJECT NO. 0914-04-174

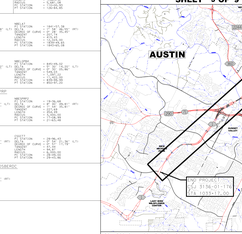
NET LENGTH OF PROJECT = 46,350 FT = 8.77 MI.

SCOPE OF WORK: ADDITION OF EXPRESS LANES IN THE MEDIAN, GENERAL PURPOSE LANE OPERATIONAL IMPROVEMENTS, AND ASSOCIATED RAMPS AND INTERCHANGE MODIFICATIONS.

TRAVIS COUNTY

LIMITS: CESAR CHAVEZ ST TO SLAUGHTER LANE

SHEET 3 OF 9



EQUATIONS: ALIGNMENT BL=PO1
STA 661+32.09 BK = STA 661+27.90 AH
STA 836+32.18 BK = STA 834+66.57 AH
FUNCTIONAL CLASSIFICATION: URBAN FREEWAY
TERRAIN: ROLLING
EXPRESS/GENERAL PURPOSE LANE DESIGN SPEED: 50 MPH
COLLECTOR - DISTRIBUTOR ROAD DESIGN SPEED: 40 MH
DIRECT CONNECTOR DESIGN SPEED: 40 MPH
RAMP DESIGN SPEED: 40 MPH
MAX SUPERELEVATION: 8%
EXISTING ADT (2018): CESAR CHAVEZ ST TO US 290 – 161,500 VPD
US 290 TO SLAUGHTER LANE – 94,500 VPD
PROJECTED ADT (2046): CESAR CHAVEZ ST TO US 290 – 221,000 VPD
US 290 TO SLAUGHTER LANE – 133,800 VPD

PRELIMINARY
NOT FOR CONSTRUCTION, BIDDING OR PERMITTING
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SCALE: 1"=100' H
1"=10' V

MoPac South

Mobility Authority

Texas Department of Transportation

AtkinsRéalis

ATKINS REALIS USA, INC.
7320 CHEVROLET DRIVE, SUITE 500
AUSTIN, TX 78726
TBPE REG. F-474

PRELIMINARY DESIGN SCHEMATIC OF MOPAC SOUTH ENVIRONMENTAL STUDY

CESAR CHAVEZ TO TH

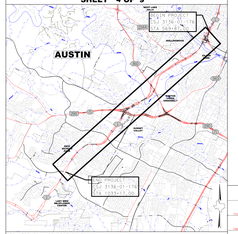
NET LENGTH OF PROJECT = 46,350 FT = 8.77 MI.

SCOPE OF WORK= ADDITION OF EXPRESS LANES IN THE MEDIAN, GENERAL PURPOSE LANE OPERATIONAL IMPROVEMENTS, AND ASSOCIATED RAMPS AND INTERCHANGE MODIFICATIONS.

TRAVIS COUNTY

LIMITS= CESAR CHAVEZ ST TO SLAUGHTER LANE

SHEET 4 OF 9



EQUATIONS: ALIGNMENT BL=SP1

STA 661+25.96 = STA 661+27.90 AH

STA 836+52.18 BK = STA 834+66.57 AH

FUNCTIONAL CLASSIFICATION: URBAN FREEWAY

TERRAIN: ROLLING

EXPRESS/GENERAL PURPOSE LANE DESIGN SPEED: 50 MPH

COLLECTOR - DISTRIBUTOR ROAD DESIGN SPEED: 40 MPH

DIRECT CONNECTOR DESIGN SPEED: 40 MPH

RAMP DESIGN SPEED: 40 MPH

MAX SUPERELEVATION: 6%

EXISTING ADT (2018): CESAR CHAVEZ ST TO US 290 - 161,500 VPD
US 290 TO SLAUGHTER LANE - 154,900 VPD

PROJECTED ADT (2046): CESAR CHAVEZ ST TO US 290 - 221,000 VPD
US 290 TO SLAUGHTER LANE - 210,800 VPD

PRELIMINARY

SUBJECT TO CHANGE

P.I. = BK, ALIGN. = SP1	
NOT FOR CONSTRUCTION, BIDDING, OR RECORDATION PURPOSES	

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

BEARING BASIS: BEARINGS ARE BASED ON THE TEXAS STATE PLANE COORDINATE SYSTEM, NAD 83 (2011), TEXAS CENTRAL ZONE 4203. ALL DISTANCES AND BEARINGS SHOWN ARE SURFACE MEASUREMENTS UNLESS NOTED OTHERWISE.

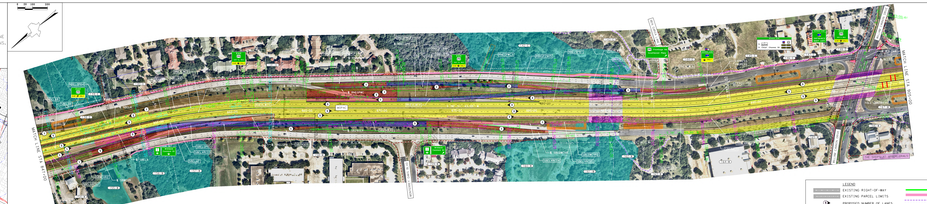
MoPac South

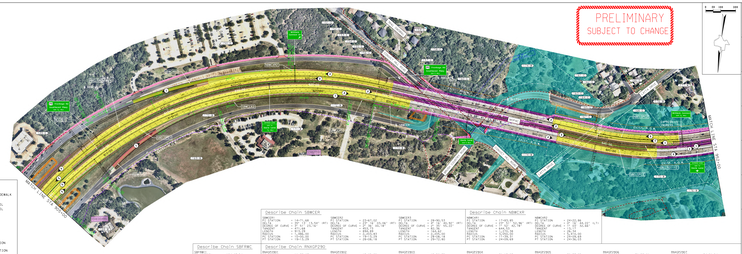
CENTRAL TEXAS REGIONAL MOBILITY AUTHORITY

Texas Department of Transportation

AtkinsRéalis

ATKINS REALIS USA, INC.
11320 RANCH ROAD 2244, SUITE 300
AUSTIN, TX 78738
TBPE REG. F-474





Design Exp Chain: BLK/EXT

	BL=SP1	BK=SP2
Beginning of Chain	661+25.96	834+66.57
Ahead or Back	AH	AH
Equation	661+27.90	834+52.18
Ahead or Back	AH	BK
End of Chain	1,+01.94	2,+14.39

Design Exp Chain: BL/EXT

	BL=SP1	BK=SP2
Beginning of Chain	661+25.96	834+66.57
Ahead or Back	AH	AH
Equation	661+27.90	834+52.18
Ahead or Back	AH	BK
End of Chain	1,+01.94	2,+14.39

Design Exp Chain: SBEL/EXT

	BL=SP1	BK=SP2
Beginning of Chain	661+25.96	834+66.57
Ahead or Back	AH	AH
Equation	661+27.90	834+52.18
Ahead or Back	AH	BK
End of Chain	1,+01.94	2,+14.39

Design Exp Chain: SBEL/EXT Conn

	BL=SP1	BK=SP2
Beginning of Chain	661+25.96	834+66.57
Ahead or Back	AH	AH
Equation	661+27.90	834+52.18
Ahead or Back	AH	BK
End of Chain	1,+01.94	2,+14.39

Design Exp Chain: SBEL/EXT

PRELIMINARY DESIGN SCHEMATIC OF MOPAC SOUTH ENVIRONMENTAL STUDY

CSJs: 1739-01-114, ETC.

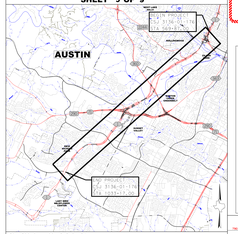
NET LENGTH OF PROJECT = 46,350 FT = 8.77 MI.

SCOPE OF WORK = ADDITION OF EXPRESS LANES IN THE MEDIAN, GENERAL PURPOSE LANE OPERATIONAL IMPROVEMENTS, AND ASSOCIATED RAMPS AND INTERCHANGE MODIFICATIONS.

TRAVIS COUNTY

LIMITS: CESAR CHAVEZ ST TO SLAUGHTER LANE

SHEET 5 OF 9


AUSTIN
MOPAC SOUTH
CESAR CHAVEZ ST
N 10,134,121.1
E 3,134,121.1
SLAUGHTER LANE
N 10,080,121.1
E 3,134,121.1
CESAR CHAVEZ ST
SLAUGHTER LANE
MOPAC SOUTH
MOPAC SOUTH
MOPAC SOUTH

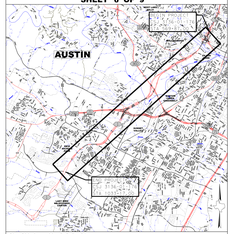
PRELIMINARY DESIGN SCHEMATIC OF MOPAC SOUTH ENVIRONMENTAL STUDY

LOOP 1 (MOPAC)

NET LENGTH OF PROJECT = 46,350 FT = 8.77 MI.
SCOPE OF WORK= ADDITION OF EXPRESS LANES IN THE MEDIAN, GENERAL PURPOSE LANE OPERATIONAL IMPROVEMENTS, AND ASSOCIATED RAMPS AND INTERCHANGE MODIFICATIONS.
TRAVIS COUNTY

LIMITS: CESAR CHAVEZ ST TO SLAUGHTER LANE

SHEET 6 OF 9


AUSTIN
MOPAC SOUTH
CESAR CHAVEZ ST
SLAUGHTER LANE
BRODIE LANE
STASSNEY LANE
WILLIAM CANNON DR
US 290
SH 71
RIVERSIDE DR
BEN WHITE BLVD
E OLTORF ST
E STASSNEY LN
E SLAUGHTER LN
S 1ST ST
S CONGRESS AVE
I-35
I-35
I-35

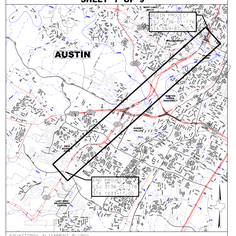
PRELIMINARY DESIGN SCHEMATIC OF MOPAC SOUTH ENVIRONMENTAL STUDY

CSJ# 1746-04-196

NET LENGTH OF PROJECT = 46,350 FT = 8.77 MI.
SCOPE OF WORK= ADDITION OF EXPRESS LANES IN THE MEDIAN, GENERAL PURPOSE LANE OPERATIONAL IMPROVEMENTS, AND ASSOCIATED RAMPS AND INTERCHANGE MODIFICATIONS.
TRAVIS COUNTY

LIMITS= CESAR CHAVEZ ST TO SLAUGHTER LANE

SHEET 7 OF 9



EQUATIONS/ ALIGNMENT BLISPO
STA 661+35.25 BK = STA 661+27.90 AH
STA 836+32.18 BK = STA 834+66.57 AH
FUNCTIONAL CLASSIFICATION: URBAN FREEWAY
TERRAIN: ROLLING
EXPRESS/GENERAL PURPOSE LANE DESIGN SPEED: 50 MPH
COLLECTOR - DISTRIBUTOR ROAD DESIGN SPEED: 40 MH
DIRECT CONNECTOR DESIGN SPEED: 40 MPH
RAMP DESIGN SPEED: 40 MPH
MAX SUPERELEVATION: 8%
EXISTING ADT (2018): CESAR CHAVEZ ST TO US 290 – 161,300 VPD
US 290 TO SLAUGHTER LANE – 94,500 VPD

PROJECTED ADT (2046): CESAR CHAVEZ ST TO US 290 – 221,000 VPD
US 290 TO SLAUGHTER LANE – 133,800 VPD

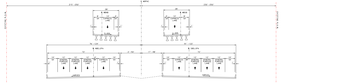
BEARING BASED ON THE TEXAS STATE PLANE COORDINATE SYSTEM, NAD 83 (2011) EPOCH 2010 AND ADJUSTED TO SURFACE (US) PROJECT SURFACE ADJUSTMENT FACTOR (.99971).

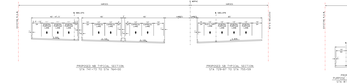
SCALE: 1"=100 H
1"=10 V

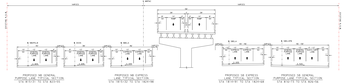
MoPac South

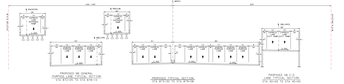
Mobility Authority — Texas Department of Transportation

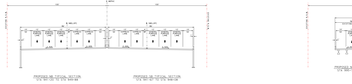
AtkinsRéalis

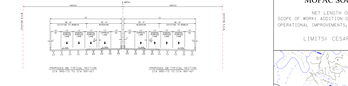


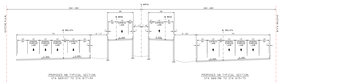


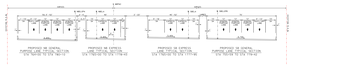


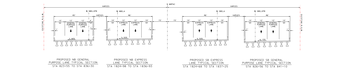


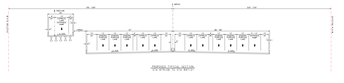


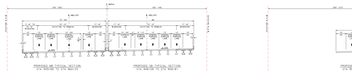


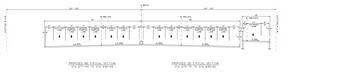


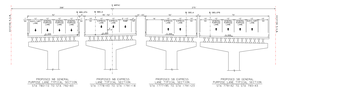


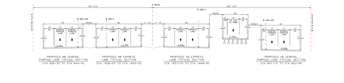


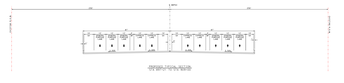


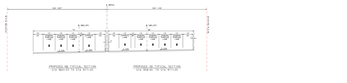


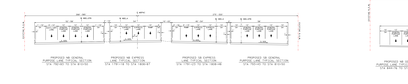


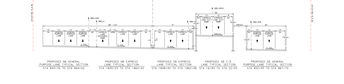


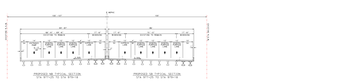












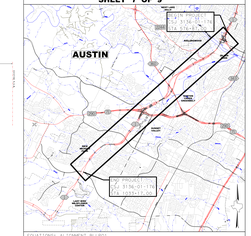
PRELIMINARY DESIGN SCHEMATIC OF MOPAC SOUTH ENVIRONMENTAL STUDY

CSJ# 1746-04-196

NET LENGTH OF PROJECT = 46,350 FT = 8.77 MI.
SCOPE OF WORK= ADDITION OF EXPRESS LANES IN THE MEDIAN, GENERAL PURPOSE LANE OPERATIONAL IMPROVEMENTS, AND ASSOCIATED RAMPS AND INTERCHANGE MODIFICATIONS.
TRAVIS COUNTY

LIMITS= CESAR CHAVEZ ST TO SLAUGHTER LANE

SHEET 7 OF 9



EQUATIONS/ ALIGNMENT BLISPO
STA 661+35.25 BK = STA 661+27.90 AH
STA 836+32.18 BK = STA 834+66.57 AH
FUNCTIONAL CLASSIFICATION: URBAN FREEWAY
TERRAIN: ROLLING
EXPRESS/GENERAL PURPOSE LANE DESIGN SPEED: 50 MPH
COLLECTOR - DISTRIBUTOR ROAD DESIGN SPEED: 40 MH
DIRECT CONNECTOR DESIGN SPEED: 40 MPH
RAMP DESIGN SPEED: 40 MPH
MAX SUPERELEVATION: 8%
EXISTING ADT (2018): CESAR CHAVEZ ST TO US 290 – 161,300 VPD
US 290 TO SLAUGHTER LANE – 94,500 VPD

PROJECTED ADT (2046): CESAR CHAVEZ ST TO US 290 – 221,000 VPD
US 290 TO SLAUGHTER LANE – 133,800 VPD

BEARING BASED ON THE TEXAS STATE PLANE COORDINATE SYSTEM, NAD 83 (2011) EPOCH 2010 AND ADJUSTED TO SURFACE (US) PROJECT SURFACE ADJUSTMENT FACTOR (.99971).

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

MoPac South

Mobility Authority — Texas Department of Transportation

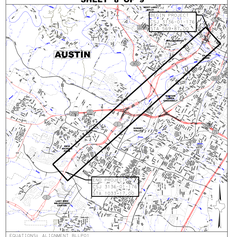
AtkinsRéalis

PRELIMINARY DESIGN SCHEMATIC OF MOPAC SOUTH ENVIRONMENTAL STUDY

LEGAL DESCRIPTION:

NET LENGTH OF PROJECT = 46,350 FT = 8.77 MI.,
SCOPE OF WORK: ADDITION OF EXPRESS LANES IN THE MEDIAN, GENERAL PURPOSE LANE OPERATIONAL IMPROVEMENTS, AND ASSOCIATED RAMPS AND INTERCHANGE MODIFICATIONS.
TRAVIS COUNTY
LIMITS: CESAR CHAVEZ ST TO SLAUGHTER LANE

SHEET 8 OF 9



EQUATIONS: ALIGNMENT "BSBSR"
STA 441+70.23 NB = STA 441+27.90 AH
STA 856+52.18 SB = STA 834+46.57 AH
FUNCTIONAL CLASSIFICATION: URBAN FREEWAY
TERRAIN: ROLLING
EXPRESS/GENERAL PURPOSE LANE DESIGN SPEED: 50 MPH
COLLECTOR - DISTRIBUTOR ROAD DESIGN SPEED: 40 MPH
DIRECT CONNECTOR DESIGN SPEED: 40 MPH
RAMP DESIGN SPEED: 40 MPH
MAX SUPERELEVATION: 8%
EXISTING ADT (2018)= CESAR CHAVEZ ST TO US 290 – 161,300 VPD
US 290 TO SLAUGHTER LANE – 94,500 VPD
PROJECTED ADT (2046)= CESAR CHAVEZ ST TO US 290 – 221,000 VPD
US 290 TO SLAUGHTER LANE – 133,800 VPD

PRELIMINARY
SUBJECT TO CHANGE
NOT FOR CONSTRUCTION, BIDDING OR PERMITTING

BEARING BASED ON THE TEXAS STATE PLANE COORDINATE SYSTEM, NAD83 (2011), CENTRAL ZONE AND ADJUSTED TO SURFACE VALUES FOR PROJECT. SURFACE ADJUSTMENT FACTOR (.)9997)

SCALE= 1)100 H
1)10 V

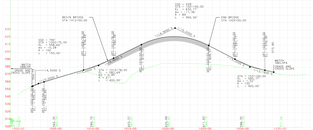
MoPac South

Mobility Authority | Texas Department of Transportation

AtkinsRéalis

ATKINSRÉALIS USA, INC.
7320 CHEVROLET DRIVE, SUITE 500
AUSTIN, TX 78726
TBPE REG. F-474

WISHBONE RAMPS



PRELIMINARY DESIGN SCHEMATIC OF MOPAC SOUTH ENVIRONMENTAL STUDY

CSJs: 1776-1-TOLL

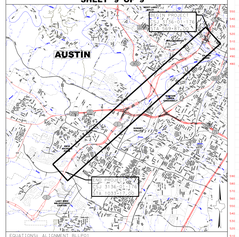
NET LENGTH OF PROJECT = 46,350 FT = 8.77 MI.

SCOPE OF WORK: ADDITION OF EXPRESS LANES IN THE MEDIAN, GENERAL PURPOSE LANE OPERATIONAL IMPROVEMENTS, AND ASSOCIATED RAMPS AND INTERCHANGE MODIFICATIONS.

TRAVIS COUNTY

LIMITS: CESAR CHAVEZ ST TO SLAUGHTER LANE

SHEET 9 OF 9



EQUATIONS: ALIGNMENT "BLUFF"
STA 661+10.29 BK = STA 661+27.90 AH
STA 836+32.18 BK = STA 834+66.57 AH
FUNCTIONAL CLASSIFICATION: URBAN FREEWAY
TERRAIN: ROLLING
EXPRESS/GENERAL PURPOSE LANE DESIGN SPEED: 50 MPH
COLLECTOR - DISTRIBUTOR ROAD DESIGN SPEED: 40 MPH
DIRECT CONNECTOR DESIGN SPEED: 40 MPH
RAMP DESIGN SPEED: 30 MPH
MAX SUPERELEVATION: 8%
EXISTING ADT (2018): CESAR CHAVEZ ST TO US 290 – 161,300 VPD
US 290 TO SLAUGHTER LANE – 94,500 VPD
PROJECTED ADT (2046): CESAR CHAVEZ ST TO US 290 – 221,000 VPD
US 290 TO SLAUGHTER LANE – 133,800 VPD

PRELIMINARY
SUBJECT TO CHANGE
NOT FOR CONSTRUCTION, BIDDING OR PERMITTING

BEARING BASED ON THE TEXAS STATE PLANE COORDINATE SYSTEM, NAD 83 (2011), CENTRAL ZONE (4203), SURFACE ADJUSTMENT FACTOR 1.00011.

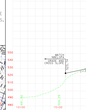
SCALE: 1"=500' H
1"=10' V

MoPac South

Texas Department of Transportation

AtkinsRéalis
ATKINSREALIS USA, INC.
11320 RANCH ROAD 2244, SUITE 300
AUSTIN, TX 78738
TBPE REG. F-474

NORTHBOUND RAMPS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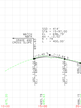
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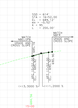
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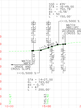
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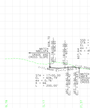
PROFILE: NBEBSRP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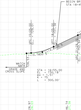
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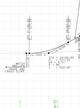
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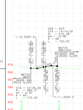
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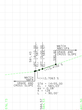
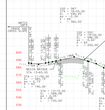

PROFILE: NBX360RP

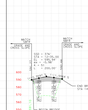
PROFILE: RNEGPWC

PROFILE: NBDLER

U-TURNS & CROSS STREETS


PROFILE: BARSKYTA

PROFILE: CSGCT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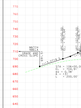
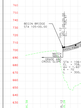
290 DIRECT CONNECTOR


PROFILE: US290NBERDC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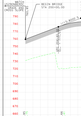
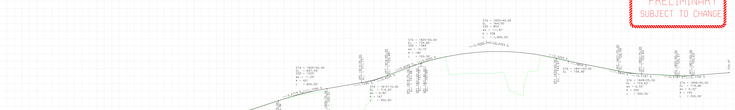
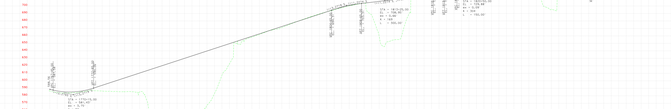

PROFILE: US290DC

290 INTERCHANGE

PRELIMINARY
SUBJECT TO CHANGE


PROFILE: SBELA


PROFILE: NBELA

PRELIMINARY DESIGN SCHEMATIC OF MOPAC SOUTH ENVIRONMENTAL STUDY

CSJs: 1776-1-TOLL

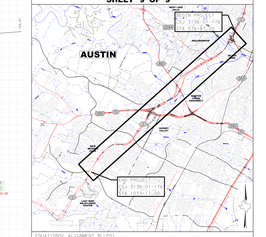
NET LENGTH OF PROJECT = 46,350 FT = 8.77 MI.

SCOPE OF WORK: ADDITION OF EXPRESS LANES IN THE MEDIAN, GENERAL PURPOSE LANE OPERATIONAL IMPROVEMENTS, AND ASSOCIATED RAMPS AND INTERCHANGE MODIFICATIONS.

TRAVIS COUNTY

LIMITS: CESAR CHAVEZ ST TO SLAUGHTER LANE

SHEET 9 OF 9



EQUATIONS: ALIGNMENT "BLUFF"
STA 661+10.29 BK = STA 661+27.90 AH
STA 836+32.18 BK = STA 834+66.57 AH
FUNCTIONAL CLASSIFICATION: URBAN FREEWAY
TERRAIN: ROLLING
EXPRESS/GENERAL PURPOSE LANE DESIGN SPEED: 50 MPH
COLLECTOR - DISTRIBUTOR ROAD DESIGN SPEED: 40 MPH
DIRECT CONNECTOR DESIGN SPEED: 40 MPH
RAMP DESIGN SPEED: 30 MPH
MAX SUPERELEVATION: 8%
EXISTING ADT (2018): CESAR CHAVEZ ST TO US 290 – 161,300 VPD
US 290 TO SLAUGHTER LANE – 94,500 VPD
PROJECTED ADT (2046): CESAR CHAVEZ ST TO US 290 – 221,000 VPD
US 290 TO SLAUGHTER LANE – 133,800 VPD

PRELIMINARY
SUBJECT TO CHANGE
NOT FOR CONSTRUCTION, BIDDING OR PERMITTING

BEARING BASED ON THE TEXAS STATE PLANE COORDINATE SYSTEM, NAD 83 (2011), CENTRAL ZONE (4203), SURFACE ADJUSTMENT FACTOR 1.00011.

SCALE: 1"=500' H
1"=10' V

MoPac South

Texas Department of Transportation

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AUSTIN, TX 78738
TBPE REG. F-474