APPENDIX B: Design Schematics

SPUR 399 ALL ALTERNATIVES

Texas Department of Transportation

DALLAS DISTRICT
DESIGN SCHEMATIC

MOHAMED E. BUH, P.E.
DALLAS DISTRICT ENGINEER

SPUR 399

CSJ: 2364-04-001, 0197-05-006 & 0197-10-002
FROM: US 75
TO: IH 30
FUNCTIONAL CLASS: URBAN FREWAY
PURPLE ALTERNATIVE LENGTH: 7.0 MILES
ORANGE ALTERNATIVE LENGTH: 5.0 MILES

DESIGN SPEEDS

MAINLANE: HORIZONTAL:	70 MPH	
MAINLANE: HORIZONTAL VERTICAL:	70 MPH	
FRONTAGE ROAD: HORIZONTAL:	30 MPH	
FRONTAGE ROAD: VERTICAL:	30 MPH	

SCALE: HORIZONTAL 1"=100'
SCALE: VERTICAL 1"=10'

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JANUARY 2022

PRELIMINARY
FOR REVIEW
NOT FOR CONSTRUCTION, BIDDING, OR PERMIT
R. LOCKETT GALPIN
PE LICENSE NO. 124475

ROLL 1 OF 12

HDR
TBPE Firm Registration No. F-754
2401 East Lamar Blvd. Suite 100
Arlington, Texas 76006
817.640.7500

Texas Department of Transportation

DALLAS DISTRICT
DESIGN SCHEMATIC

MOHAMED E. BUH, P.E.
DALLAS DISTRICT ENGINEER

SPUR 399

CSJ: 2964-00-001, 0247-00-006 & 0247-10-002
FROM: US 75
TO: SH 121
FUNCTIONAL CLASS: URBAN FREEWAY
PURPLE ALTERNATIVE LENGTH: 7.0 MILES
ORANGE ALTERNATIVE LENGTH: 7.0 MILES

DESIGN SPEEDS

MAINLANE (HORIZONTAL):	55 MPH	
MAINLANE (VERTICAL):	55 MPH	
CROSS STREET (HORIZONTAL):	35 MPH	
CROSS STREET (VERTICAL):	35 MPH	

SCALE(H) HORIZONTAL 1"=100'
SCALE(V) VERTICAL 1"=10'

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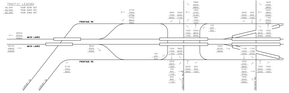
JANUARY 2022

FOR TEXDOT USE ONLY
CONTROL: 2964-00-001
SHEET: 1 OF 12
DATE: 1/4/2022
TIME: 10:00:00 AM
FILE: 2964-00-001 SHEET 1 OF 12.DGN

ROLL 2 OF 12

HDR
TBPE Registration No. F-754
2435 Vista Parkway, Suite 100
West Palm Beach, FL
33411-8603



GEOMETRIC CURVE DATA

| | | |

Texas Department of Transportation

DALLAS DISTRICT
DESIGN SCHEMATIC

MOHAMED E. BUR, P.E.
DALLAS DISTRICT ENGINEER

SPUR 399

CSJ: 2964-00-001, 0247-00-006 & 0247-13-002
FROM: US 75
TO: IH 30
FUNCTIONAL CLASS: URBAN FREEWAY
PURPLE ALTERNATIVE LENGTH: 7.2 MILES
ORANGE ALTERNATIVE LENGTH: 7.0 MILES

DESIGN SPEEDS

HORIZONTAL (MINIMUM): 50 MPH
HORIZONTAL (DESIGN CONTROL): 50 MPH
VERTICAL (MINIMUM): 50 MPH
VERTICAL (DESIGN CONTROL): 50 MPH

SCALE: HORIZONTAL 1"=100'
SCALE: VERTICAL 1"=10'

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JANUARY 2022

PRELIMINARY
FOR REVIEW
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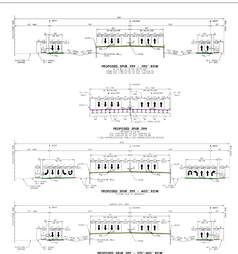
PE LICENSE NO. 124070 DATE
PE LICENSE NO. 124070 DATE

ROLL 3 OF 12

HDR
TBPE Firm Registration No. F-754
2435 N. Central Expwy, Suite 700
Richardson, Texas 75080
972.994.1000


PROPOSED SPUR 399 - ORIG ROW
PROPOSED SPUR 399
PROPOSED SPUR 399 - ADOC ROW
PROPOSED SPUR 399 - UTC/ADOC ROW
PROPOSED SPUR 399
PROPOSED SPUR 399
PROPOSED SPUR 399
PROPOSED SPUR 399
PROPOSED SPUR 399
PROPOSED SPUR 399
PROPOSED SPUR 399
PROPOSED SPUR 399
EXISTING TYPICAL SECTION
EXISTING TYPICAL SECTION
EXISTING TYPICAL SECTION

Texas Department of Transportation

DALLAS DISTRICT
DESIGN SCHEMATIC

MOHAMED E. BUH, P.E.
DALLAS DISTRICT ENGINEER

SPUR 399

CSJ: 2364-04-001, 0197-05-006 & 0197-10-002
FROM: US 75
TO: SH 289
FUNCTIONAL CLASS: URBAN FREEWAY
PURPLE ALTERNATIVE LENGTH: 5.0 MILES
ORANGE ALTERNATIVE LENGTH: 5.0 MILES

DESIGN SPEEDS

MAINLANE: (FREEWAY)	70 MPH	
FRONTAGE ROAD: (ARTERIAL)	35 MPH	
FRONTAGE ROAD: (COLLECTOR)	30 MPH	
FRONTAGE ROAD: (LOCAL)	30 MPH	

SCALE: HORIZONTAL 1"=100'
SCALE: VERTICAL 1"=10'

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JANUARY 2022

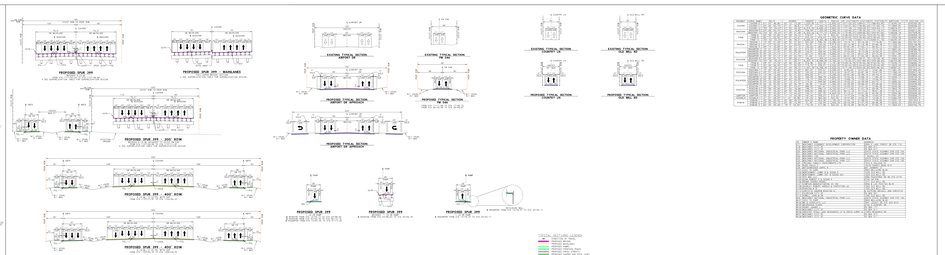
RECOMMENDED:
DALLAS DISTRICT ENGINEER
DATE

APPROVED:
DALLAS DISTRICT ENGINEER
DATE

PE SEAL

ROLL 4 OF 12

HDR
TBPE Registration No. F-754
2435 Vista Parkway, Suite 100
Dallas, Texas 75228
972.450.1400



GEOMETRIC CURVE DATA

| | | |

Texas Department of Transportation

DALLAS DISTRICT
DESIGN SCHEMATIC

MOHAMED E. BUH, P.E.
DALLAS DISTRICT ENGINEER

SPUR 399

CSJ: 2364-00-001, 0197-00-006 & 0047-10-002
FROM: US 75
TO: SH 289
FUNCTIONAL CLASS: URBAN FREWAY
PURPLE ALTERNATIVE LENGTH: 5.2 MILES
ORANGE ALTERNATIVE LENGTH: 5.0 MILES

DESIGN SPEEDS

MAINLANE: FREEWAY	
RAMPS: DIRECT CONNECTION (VERTICAL):	50 MPH
RAMPS: DIRECT CONNECTION:	40 MPH
RAMPS: SERVICE (VERTICAL):	30 MPH

SEE SHEET 2 FOR LEGEND & SCHEMATIC
SEE SHEET 3 FOR GENERAL NOTES

SCALE: HORIZONTAL 1"=100'
SCALE: VERTICAL 1"=10'

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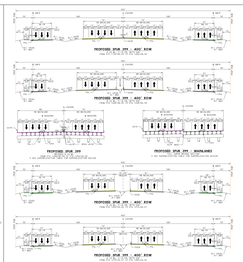
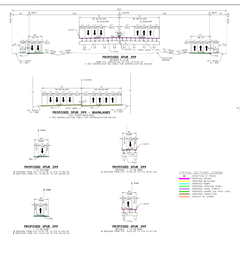
JANUARY 2022

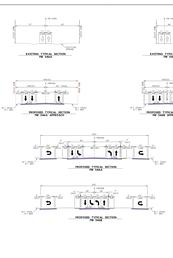
PRELIMINARY
FOR REVIEW
FOR PUBLIC INFORMATION
FOR REGULATORY APPROVAL
FOR ENVIRONMENTAL CLEARANCE
FOR ROW
FOR CONSTRUCTION
FOR MAINTENANCE
FOR OPERATIONS (TRAFFIC)
FOR ADVANCE FACILITIES PLANNING

ROLL 5 OF 12

HDR
TBPE Firm Registration No. F-754
2435 Tech Forest Blvd, Suite 100
The Woodlands, TX
(281) 364-2000







GEOMETRIC CURVE DATA

| | | |

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Texas Department of Transportation

DALLAS DISTRICT
DESIGN SCHEMATIC

MOHAMED E. BUH, P.E.
DALLAS DISTRICT ENGINEER

SPUR 399

CSJ: 0364-00-001, 0047-00-006 & 0047-13-002
FROM: US 75
TO: SH 289
FUNCTIONAL CLASS: URBAN FREEWAY
PURPLE ALTERNATIVE LENGTH: 2.8 MILES
ORANGE ALTERNATIVE LENGTH: 3.0 MILES

DESIGN SPEEDS

MAINLANE: FREEWAY		70 MPH
CROSS STREET: ARTERIAL		35 MPH
FRONTAGE ROAD: ARTERIAL		35 MPH
CROSS STREET: LOCAL		30 MPH
FRONTAGE ROAD: LOCAL		30 MPH

SCALE: HORIZONTAL 1"=100'
SCALE: VERTICAL 1"=10'

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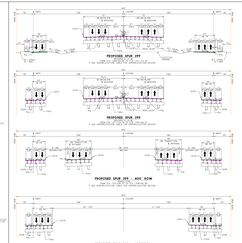
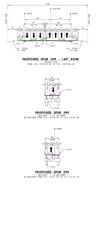
JANUARY 2022

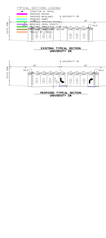
PE SEAL

ROLL 6 OF 12

HDR
TBPE Registration No. F-754
2435 Tech Forest Blvd, Suite 100
Houston, Texas 77084
281.894.5400







GEOMETRIC CURVE DATA

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Texas Department of Transportation

DALLAS DISTRICT DESIGN SCHEMATIC

MOHAMED K. BURI, P.E.
DALLAS DISTRICT ENGINEER

SPUR 399

CSJ: 0364-04-051, 0047-05-058 & 0047-10-002
FROM: US 75
TO: SH 289
FUNCTIONAL CLASS: URBAN FREEWAY
PURPLE ALTERNATIVE LENGTH: 5.4 MILES
ORANGE ALTERNATIVE LENGTH: 5.0 MILES

DESIGN SPEEDS

MAINLANES (FREEWAY):	70 MPH
FRONTAGE ROADS (PRIMARY ARTERIALS):	45 MPH
FRONTAGE ROADS (COLLECTORS):	35 MPH
CROSS STREETS (MAJOR COLLECTOR):	VARIES

END ORANGE ALTERNATIVE
STA 1+00 PURPLE ALTERNATIVE
STA 1+00 ORANGE ALTERNATIVE

END PURPLE ALTERNATIVE
STA 286+00 PURPLE ALTERNATIVE
STA 286+00 ORANGE ALTERNATIVE

SH 289
SPUR 399
US 380
US 75
SH 121
SH 289
SH 121
SH 289
SH 121
SH 289

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Texas Department of Transportation

DALLAS DISTRICT
DESIGN SCHEMATIC

MOHAMED K. BURI, P.E.
DALLAS DISTRICT ENGINEER

SPUR 399

CSJ: 0364-04-051, 0047-05-058 & 0047-10-002
FROM: US 75
TO: IH 35
FUNCTIONAL CLASS: URBAN FREEWAY
PURPLE ALTERNATIVE LENGTH: 6.4 MILES
ORANGE ALTERNATIVE LENGTH: 7.0 MILES

DESIGN SPEEDS

MAINLANES (FREEWAY):	70 MPH
FRONTAGE ROADS (PRIMARY ARTERIAL):	40 MPH
FRONTAGE ROADS (COLLECTOR):	30 MPH
CROSS STREETS (MAJOR COLLECTOR):	VARIES

END OF PURPLE ALTERNATIVE
STATIONING REFERENCE

END OF ORANGE ALTERNATIVE
STATIONING REFERENCE

BEGIN PROJECT
STATIONING REFERENCE
END PROJECT
STATIONING REFERENCE

SCALES: HORIZONTAL 1"=100'
SCALES: VERTICAL 1"=10'

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JANUARY 2022

PRELIMINARY
SUBJECT TO REVISIONS

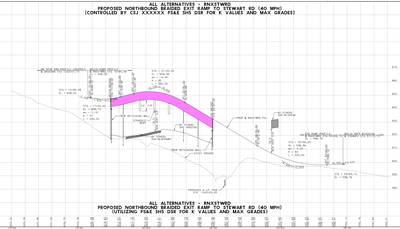
SCHEMATIC PREPARED BY:
NAME
COMPANY
JANUARY 2022
DATE

NOT INTENDED FOR CONSTRUCTION,
BIDDING, OR PERMIT PURPOSES

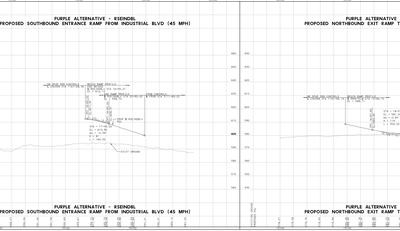
ROLL 8 OF 12

HDR
HDR
FIRM Registration No. F-754
17111 Preston Road, Suite 300
Dallas, Texas 75248-1230
972.661.8400

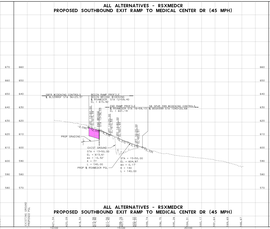
ALL ALTERNATIVES - RNXSTWD
PROPOSED NORTHBOUND EXIT RAMP TO STEWART RD (40 MPH)
(CONTROLLED BY CSJ XXXXXX PSAE DHS DSR FOR K VALUES AND MAX GRADES)



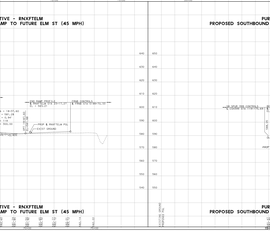
ALL ALTERNATIVES - RNXSTWD
PROPOSED NORTHBOUND EXIT RAMP TO STEWART RD (40 MPH)
(UTILIZING PSAE DHS DSR FOR K VALUES AND MAX GRADES)



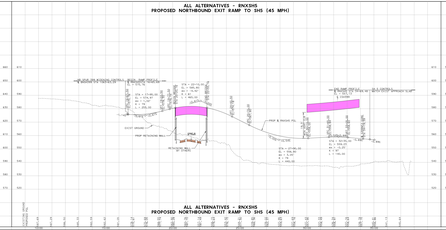
ALL ALTERNATIVES - ESXMEDCR
PROPOSED SOUTHBOUND EXIT RAMP TO MEDICAL CENTER DR (45 MPH)



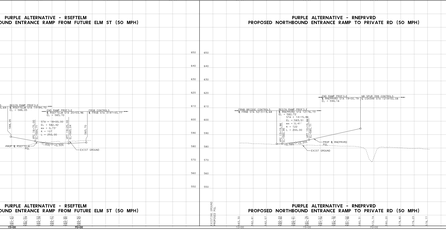
ALL ALTERNATIVES - ESXMEDCR
PROPOSED SOUTHBOUND EXIT RAMP TO MEDICAL CENTER DR (45 MPH)



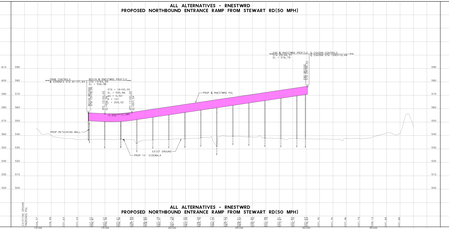
ALL ALTERNATIVES - RNXSHS
PROPOSED NORTHBOUND EXIT RAMP TO SHS (45 MPH)



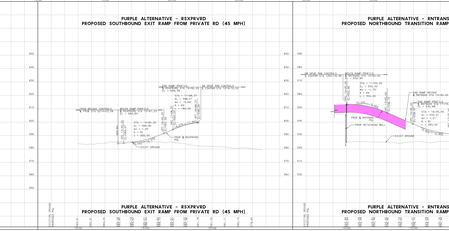
ALL ALTERNATIVES - RNXSHS
PROPOSED NORTHBOUND EXIT RAMP TO SHS (45 MPH)



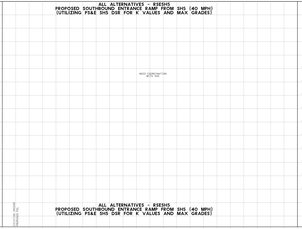
ALL ALTERNATIVES - RNESTWD
PROPOSED NORTHBOUND ENTRANCE RAMP FROM STEWART RD(50 MPH)



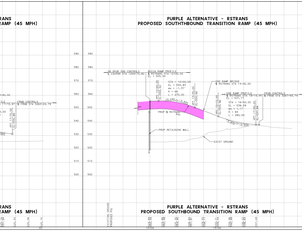
ALL ALTERNATIVES - RNESTWD
PROPOSED NORTHBOUND ENTRANCE RAMP FROM STEWART RD(50 MPH)



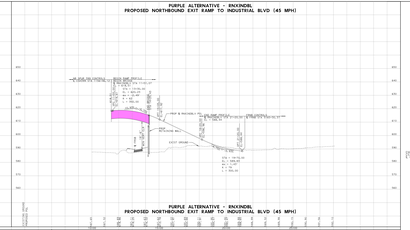
ALL ALTERNATIVES - ESXSHS
PROPOSED SOUTHBOUND EXIT RAMP TO SHS (40 MPH)
(UTILIZING PSAE DHS DSR FOR K VALUES AND MAX GRADES)



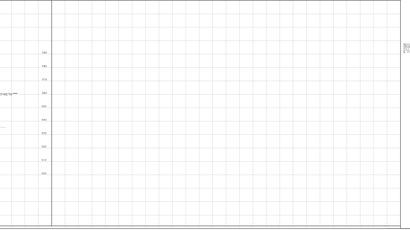
ALL ALTERNATIVES - ESXSHS
PROPOSED SOUTHBOUND EXIT RAMP TO SHS (40 MPH)
(UTILIZING PSAE DHS DSR FOR K VALUES AND MAX GRADES)



PURPLE ALTERNATIVE - RNXINDBL
PROPOSED NORTHBOUND EXIT RAMP TO INDUSTRIAL BLVD (45 MPH)



PURPLE ALTERNATIVE - RNXINDBL
PROPOSED NORTHBOUND EXIT RAMP TO INDUSTRIAL BLVD (45 MPH)



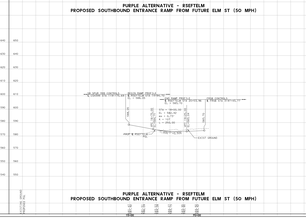
PURPLE ALTERNATIVE - RSENDBL
PROPOSED SOUTHBOUND ENTRANCE RAMP FROM INDUSTRIAL BLVD (45 MPH)

PURPLE ALTERNATIVE - RSENDBL
PROPOSED SOUTHBOUND ENTRANCE RAMP FROM INDUSTRIAL BLVD (45 MPH)

PURPLE ALTERNATIVE - RNXFTELM
PROPOSED NORTHBOUND EXIT RAMP TO FUTURE ELM ST (45 MPH)

PURPLE ALTERNATIVE - RNXFTELM
PROPOSED NORTHBOUND EXIT RAMP TO FUTURE ELM ST (45 MPH)

PURPLE ALTERNATIVE - RSFTELM
PROPOSED SOUTHBOUND ENTRANCE RAMP FROM FUTURE ELM ST (50 MPH)



PURPLE ALTERNATIVE - RSFTELM
PROPOSED SOUTHBOUND ENTRANCE RAMP FROM FUTURE ELM ST (50 MPH)

PURPLE ALTERNATIVE - RNPRVRD
PROPOSED NORTHBOUND ENTRANCE RAMP TO PRIVATE RD (50 MPH)

PURPLE ALTERNATIVE - RNPRVRD
PROPOSED NORTHBOUND ENTRANCE RAMP TO PRIVATE RD (50 MPH)

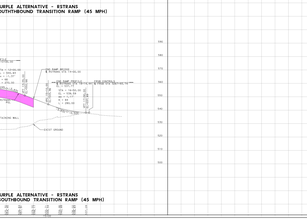
PURPLE ALTERNATIVE - RSXPRVRD
PROPOSED SOUTHBOUND EXIT RAMP FROM PRIVATE RD (45 MPH)

PURPLE ALTERNATIVE - RSXPRVRD
PROPOSED SOUTHBOUND EXIT RAMP FROM PRIVATE RD (45 MPH)

PURPLE ALTERNATIVE - RNTRANS
PROPOSED NORTHBOUND TRANSITION RAMP (45 MPH)

PURPLE ALTERNATIVE - RNTRANS
PROPOSED NORTHBOUND TRANSITION RAMP (45 MPH)

PURPLE ALTERNATIVE - RSTRANS
PROPOSED SOUTHBOUND TRANSITION RAMP (45 MPH)



PURPLE ALTERNATIVE - RSTRANS
PROPOSED SOUTHBOUND TRANSITION RAMP (45 MPH)

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Texas Department of Transportation

DALLAS DISTRICT
DESIGN SCHEMATIC

MOHAMED K. BURI, P.E.
DALLAS DISTRICT ENGINEER

SPUR 399

CSJ: 0364-04-051, 0047-05-058 & 0047-10-002
FROM: US 75
TO: IH 35
FUNCTIONAL CLASS: URBAN FREEWAY
PURPLE ALTERNATIVE LENGTH: 6.4 MILES
ORANGE ALTERNATIVE LENGTH: 7.0 MILES

DESIGN SPEEDS

MAINLANES (FREEWAY): 70 MPH
FRONTAGE ROADS (PRIMARY ARTERIAL): 40 MPH
FRONTAGE ROADS (COLLECTOR): 30 MPH
CROSS STREETS (MAJOR COLLECTOR): VARIES

END OF PURPLE ALTERNATIVE
STATIONING REFERENCE

END OF ORANGE ALTERNATIVE
STATIONING REFERENCE

LOCATION MAP

BEGIN PROJECT
STATIONING REFERENCE
END PROJECT
STATIONING REFERENCE

SCALES: HORIZONTAL 1"=100'
SCALES: VERTICAL 1"=10'

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JANUARY 2022

PRELIMINARY
SUBJECT TO REVISIONS

SCHEMATIC PREPARED BY:
NAME
COMPANY
JANUARY 2022
DATE

NOT INTENDED FOR CONSTRUCTION,
BIDDING, OR PERMIT PURPOSES

ROLL 8 OF 12

HDR
HDR
FIRM Registration No. F-754
17111 Preston Road, Suite 300
Dallas, Texas 75248-1230
972.661.8400

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Texas Department of Transportation

DALLAS DISTRICT DESIGN SCHEMATIC

MOHAMED K. BURI, P.E.
DALLAS DISTRICT ENGINEER

SPUR 399

CSJ: 0364-04-051, 0047-05-058 & 0047-10-002
FROM: US 75
TO: IH 30
FUNCTIONAL CLASS: URBAN FREEWAY
PURPLE ALTERNATIVE LENGTH: 5.9 MILES
ORANGE ALTERNATIVE LENGTH: 5.0 MILES

DESIGN SPEEDS

MAINLANES (FREEWAY):	70 MPH
FRONTAGE ROADS (PRIMARY ARTERIAL):	45 MPH
FRONTAGE ROADS (COLLECTOR):	35 MPH
CROSS STREETS (MAJOR COLLECTOR):	VARIES

END OF PURPLE ALTERNATIVE
STA 1000+00 PG-1 (STA 0+00 ORANGE ALTERNATIVE)
STA 1000+00 PG-1 (STA 0+00 PURPLE ALTERNATIVE)

LOCATION MAP
NO SCALE

BEGIN PROJECT (0) COORDINATES
STA 1000+00 PG-1 (STA 0+00 ORANGE ALTERNATIVE)
STA 1000+00 PG-1 (STA 0+00 PURPLE ALTERNATIVE)

END PROJECT (0) COORDINATES
STA 1000+00 PG-1 (STA 0+00 ORANGE ALTERNATIVE)
STA 1000+00 PG-1 (STA 0+00 PURPLE ALTERNATIVE)

SCALE: HORIZONTAL 1"=100'
SCALE: VERTICAL 1"=10'

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JANUARY 2022

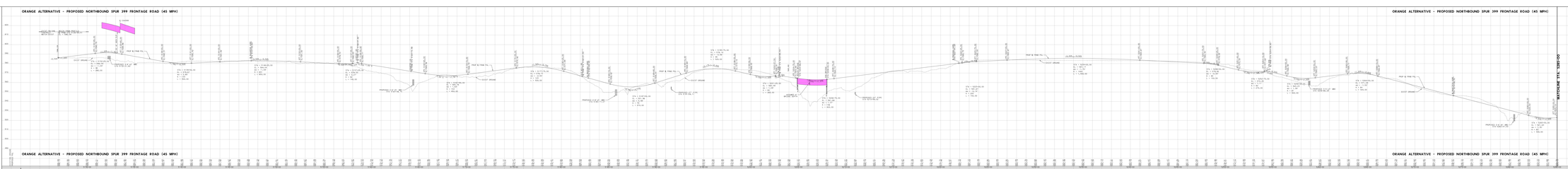
PRELIMINARY
SUBJECT TO REVISIONS

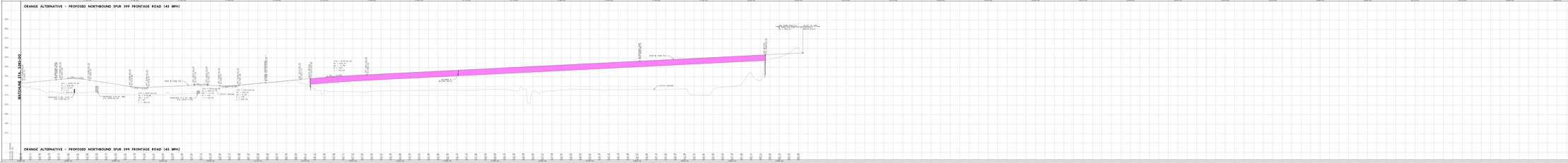
SCHEMATIC PREPARED BY:
DALLAS DISTRICT ENGINEER
MOHAMED K. BURI
JANUARY 2022
DATE

NOT INTENDED FOR CONSTRUCTION, BIDDING, OR PERMIT PURPOSES

ROLL 9 OF 12

HDR
FIRM Registration No. F-754
17111 Preston Road, Suite 300
Dallas, Texas 75248-1230
972.851.4400





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Texas Department of Transportation

DALLAS DISTRICT DESIGN SCHEMATIC

MOHAMED K. BURI, P.E.
DALLAS DISTRICT ENGINEER

SPUR 399

CSJ: 0364-04-051, 0047-05-058 & 0047-10-002
FROM: US 75
TO: IH 30
FUNCTIONAL CLASS: URBAN FREEWAY
PURPLE ALTERNATIVE LENGTH: 5.9 MILES
ORANGE ALTERNATIVE LENGTH: 5.0 MILES

DESIGN SPEEDS

MAINLANES (FREEWAY):	70 MPH
FRONTAGE ROADS (PRIMARY ARTERIAL):	45 MPH
FRONTAGE ROADS (COLLECTOR):	35 MPH
CROSS STREETS (MAJOR COLLECTOR):	VARIES

END OF PURPLE ALTERNATIVE
STA 1000+00 PG-1 (STA 0+00 ORANGE ALTERNATIVE)
STA 1000+00 PG-1 (STA 0+00 PURPLE ALTERNATIVE)

LOCATION MAP
NO SCALE

BEGIN PROJECT (0) COORDINATES
STA 1000+00 PG-1 (STA 0+00 ORANGE ALTERNATIVE)
STA 1000+00 PG-1 (STA 0+00 PURPLE ALTERNATIVE)

END PROJECT (0) COORDINATES
STA 1000+00 PG-1 (STA 0+00 ORANGE ALTERNATIVE)
STA 1000+00 PG-1 (STA 0+00 PURPLE ALTERNATIVE)

SCALE: HORIZONTAL 1"=100'
SCALE: VERTICAL 1"=10'

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DALLAS DISTRICT DESIGN SCHEMATIC

MOHAMED K. BURI, P.E.
DALLAS DISTRICT ENGINEER

SPUR 399

CSJ: 0364-04-051, 0047-05-058 & 0047-10-002
FROM: US 75
TO: SH 78
FUNCTIONAL CLASS: URBAN FREEWAY
PURPLE ALTERNATIVE LENGTH: 5.4 MILES
ORANGE ALTERNATIVE LENGTH: 5.0 MILES

DESIGN SPEEDS

MAINLANES (FREEWAY):	70 MPH
FRONTAGE ROADS (PRIMARY ARTERIAL):	45 MPH
FRONTAGE ROADS (COLLECTOR):	35 MPH
CROSS STREETS (MAJOR COLLECTOR):	VARIES

END SPUR 399 PURPLE ALTERNATIVE
STATIONING 1000+00.00
END SPUR 399 ORANGE ALTERNATIVE
STATIONING 1000+00.00

LOCATION MAP
NO SCALE

BEGIN SPUR 399 PURPLE ALTERNATIVE
STATIONING 1000+00.00
BEGIN SPUR 399 ORANGE ALTERNATIVE
STATIONING 1000+00.00

BEGIN SPUR 399
STATIONING 1000+00.00

SCALE: HORIZONTAL 1"=100'
SCALE: VERTICAL 1"=10'

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JANUARY 2022

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SUBJECT TO REVISIONS

SCHEMATIC PREPARED BY:
DALLAS DISTRICT
DESIGN SECTION
JANUARY 2022
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ROLL 10 OF 12

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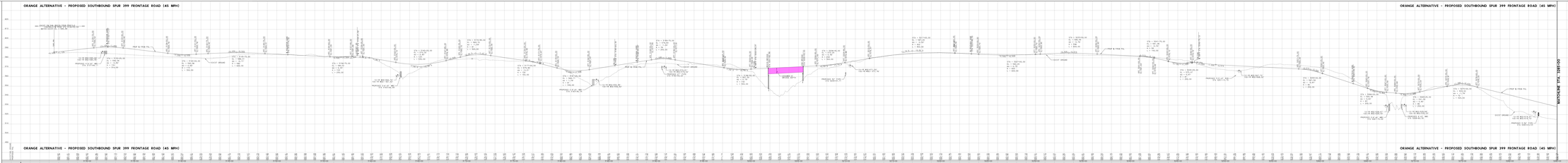
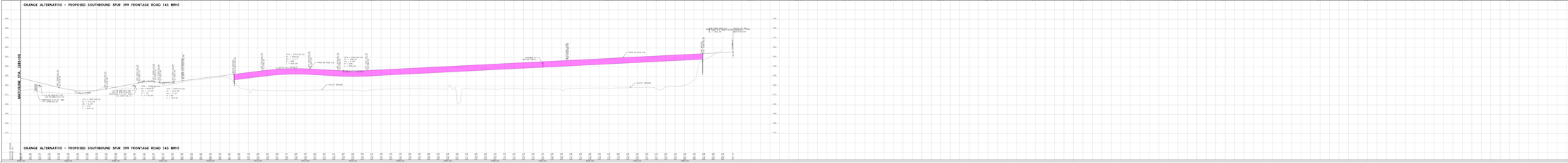
FIRM Registration No. F-754
17111 Preston Road, Suite 300
DALLAS, TEXAS 75248-1230
972.450.6400

ORANGE ALTERNATIVE - PROPOSED SOUTHBOUND SPUR 399 FRONTAGE ROAD (45 MPH)



ORANGE ALTERNATIVE - PROPOSED SOUTHBOUND SPUR 399 FRONTAGE ROAD (45 MPH)

ORANGE ALTERNATIVE - PROPOSED SOUTHBOUND SPUR 399 FRONTAGE ROAD (45 MPH)



ORANGE ALTERNATIVE - PROPOSED SOUTHBOUND SPUR 399 FRONTAGE ROAD (45 MPH)

Texas Department of Transportation

DALLAS DISTRICT DESIGN SCHEMATIC

MOHAMED K. BURI, P.E.
DALLAS DISTRICT ENGINEER

SPUR 399

CSJ: 0364-04-051, 0047-05-058 & 0047-10-002
FROM: US 75
TO: SH 78
FUNCTIONAL CLASS: URBAN FREEWAY
PURPLE ALTERNATIVE LENGTH: 5.4 MILES
ORANGE ALTERNATIVE LENGTH: 5.0 MILES

DESIGN SPEEDS

MAINLANES (FREEWAY): 70 MPH
FRONTAGE ROADS (PRIMARY ARTERIAL): 45 MPH
FRONTAGE ROADS (COLLECTOR): 35 MPH
CROSS STREETS (MAJOR COLLECTOR): VARIES

END SPUR 399 PURPLE ALTERNATIVE
STATIONING 1000+00.00
END SPUR 399 ORANGE ALTERNATIVE
STATIONING 1000+00.00

LOCATION MAP
NO SCALE

BEGIN SPUR 399 PURPLE ALTERNATIVE
STATIONING 1000+00.00
BEGIN SPUR 399 ORANGE ALTERNATIVE
STATIONING 1000+00.00

BEGIN SPUR 399
STATIONING 1000+00.00

SCALE: HORIZONTAL 1"=100'
SCALE: VERTICAL 1"=10'

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DALLAS DISTRICT
DESIGN SECTION
JANUARY 2022
DATE

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DALLAS DISTRICT DESIGN SCHEMATIC

MOHAMED K. BURI, P.E.
DALLAS DISTRICT ENGINEER

SPUR 399

CSJ: 0364-04-051, 0047-05-058 & 0047-10-002
FROM: US 75
TO: IH 30
FUNCTIONAL CLASS: URBAN FREEWAY
PURPLE ALTERNATIVE LENGTH: 6.4 MILES
ORANGE ALTERNATIVE LENGTH: 7.0 MILES

DESIGN SPEEDS

MAINLANES (FREEWAY):	70 MPH
FRONTAGE ROADS (ARTERIAL ARTERIAL):	35 MPH
RAMPS:	50 MPH
CROSS STREETS (MAJOR COLLECTOR):	VARIES

END OF PURPLE ALTERNATIVE: STA.1000+00 (US 75)
END OF ORANGE ALTERNATIVE: STA.1000+00 (US 75)

SCALE: HORIZONTAL 1"=100'
SCALE: VERTICAL 1"=10'

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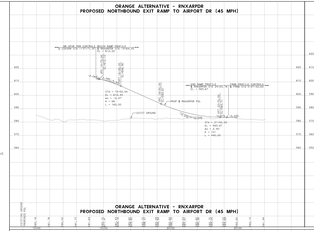
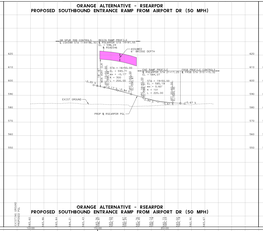
HDR
FIRM Registration No. F-754
17111 Preston Road, Suite 300
Dallas, Texas 75248-1230
972.992.5400

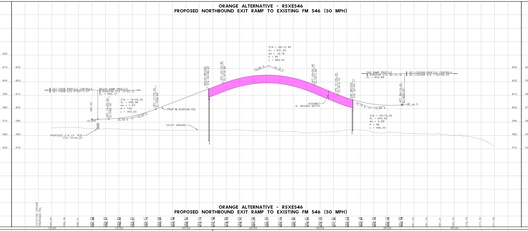
ORANGE ALTERNATIVE - RNXARPDR
PROPOSED NORTHBOUND EXIT RAMP TO AIRPORT DR (45 MPH)



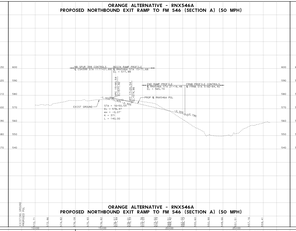
ORANGE ALTERNATIVE - RSEARPDR
PROPOSED SOUTHBOUND ENTRANCE RAMP FROM AIRPORT DR (50 MPH)



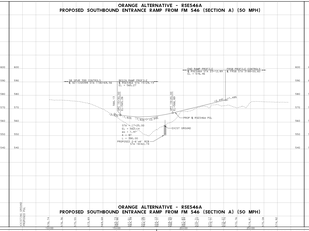
ORANGE ALTERNATIVE - RSXES46
PROPOSED NORTHBOUND EXIT RAMP TO EXISTING FM 546 (50 MPH)



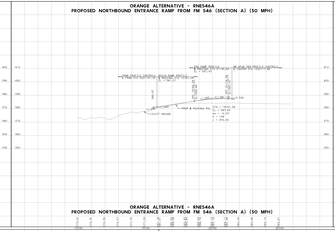
ORANGE ALTERNATIVE - RNX546A
PROPOSED NORTHBOUND EXIT RAMP TO FM 546 (SECTION A) (50 MPH)



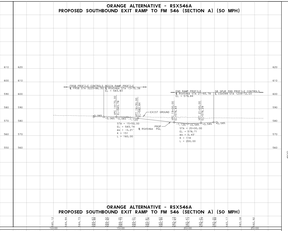
ORANGE ALTERNATIVE - RSE546A
PROPOSED SOUTHBOUND ENTRANCE RAMP FROM FM 546 (SECTION A) (50 MPH)



ORANGE ALTERNATIVE - RNE546A
PROPOSED NORTHBOUND ENTRANCE RAMP FROM FM 546 (SECTION A) (50 MPH)



ORANGE ALTERNATIVE - RSX546A
PROPOSED SOUTHBOUND EXIT RAMP TO FM 546 (SECTION A) (50 MPH)



ORANGE ALTERNATIVE - RNXARPDR
PROPOSED NORTHBOUND EXIT RAMP TO AIRPORT DR (45 MPH)

ORANGE ALTERNATIVE - RSEARPDR
PROPOSED SOUTHBOUND ENTRANCE RAMP FROM AIRPORT DR (50 MPH)

ORANGE ALTERNATIVE - RSXES46
PROPOSED NORTHBOUND EXIT RAMP TO EXISTING FM 546 (50 MPH)

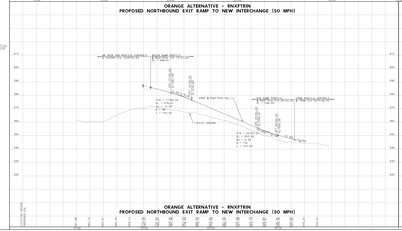
ORANGE ALTERNATIVE - RNX546A
PROPOSED NORTHBOUND EXIT RAMP TO FM 546 (SECTION A) (50 MPH)

ORANGE ALTERNATIVE - RSE546A
PROPOSED SOUTHBOUND ENTRANCE RAMP FROM FM 546 (SECTION A) (50 MPH)

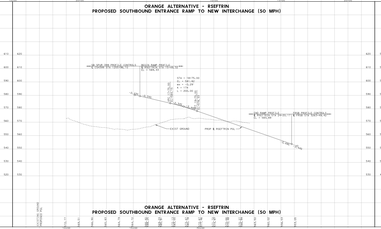
ORANGE ALTERNATIVE - RNE546A
PROPOSED NORTHBOUND ENTRANCE RAMP FROM FM 546 (SECTION A) (50 MPH)

ORANGE ALTERNATIVE - RSX546A
PROPOSED SOUTHBOUND EXIT RAMP TO FM 546 (SECTION A) (50 MPH)

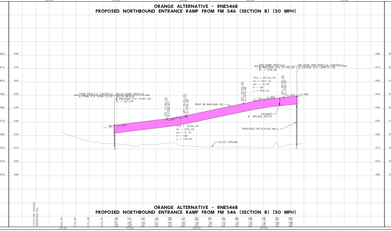
ORANGE ALTERNATIVE - RNXTRN
PROPOSED NORTHBOUND EXIT RAMP TO NEW INTERCHANGE (50 MPH)



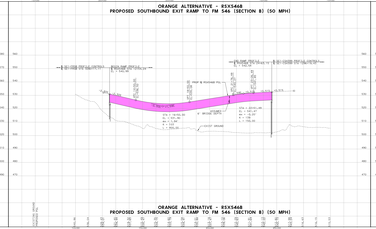
ORANGE ALTERNATIVE - RSETRN
PROPOSED SOUTHBOUND ENTRANCE RAMP TO NEW INTERCHANGE (50 MPH)



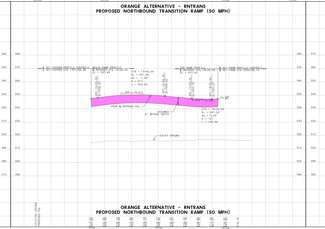
ORANGE ALTERNATIVE - RNE546B
PROPOSED NORTHBOUND ENTRANCE RAMP FROM FM 546 (SECTION B) (50 MPH)



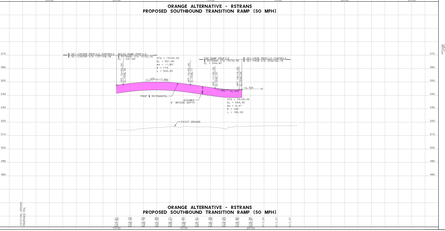
ORANGE ALTERNATIVE - RSX546B
PROPOSED SOUTHBOUND EXIT RAMP TO FM 546 (SECTION B) (50 MPH)



ORANGE ALTERNATIVE - RNTRANS
PROPOSED NORTHBOUND TRANSITION RAMP (50 MPH)



ORANGE ALTERNATIVE - RSTRANS
PROPOSED SOUTHBOUND TRANSITION RAMP (50 MPH)



ORANGE ALTERNATIVE - RNXTRN
PROPOSED NORTHBOUND EXIT RAMP TO NEW INTERCHANGE (50 MPH)

ORANGE ALTERNATIVE - RSETRN
PROPOSED SOUTHBOUND ENTRANCE RAMP TO NEW INTERCHANGE (50 MPH)

ORANGE ALTERNATIVE - RNE546B
PROPOSED NORTHBOUND ENTRANCE RAMP FROM FM 546 (SECTION B) (50 MPH)

ORANGE ALTERNATIVE - RSX546B
PROPOSED SOUTHBOUND EXIT RAMP TO FM 546 (SECTION B) (50 MPH)

ORANGE ALTERNATIVE - RNTRANS
PROPOSED NORTHBOUND TRANSITION RAMP (50 MPH)

ORANGE ALTERNATIVE - RSTRANS
PROPOSED SOUTHBOUND TRANSITION RAMP (50 MPH)

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DALLAS DISTRICT DESIGN SCHEMATIC

MOHAMED K. BURI, P.E.
DALLAS DISTRICT ENGINEER

SPUR 399

CSJ: 0364-04-051, 0047-05-058 & 0047-10-002
FROM: US 75
TO: IH 30
FUNCTIONAL CLASS: URBAN FREEWAY
PURPLE ALTERNATIVE LENGTH: 6.4 MILES
ORANGE ALTERNATIVE LENGTH: 7.0 MILES

DESIGN SPEEDS

MAINLANES (FREEWAY): 70 MPH
FRONTAGE ROADS (ARTERIAL ARTERIAL): 35 MPH
RAMPS: 50 MPH
CROSS STREETS (MAJOR COLLECTOR): VARIES

END OF PURPLE ALTERNATIVE: STA.1000+00 (US 75)
END OF ORANGE ALTERNATIVE: STA.1000+00 (US 75)

SCALE: HORIZONTAL 1"=100'
SCALE: VERTICAL 1"=10'

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JANUARY 2022

PRELIMINARY
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SCHEMATIC PREPARED BY:
OFFICIAL SCHEMATIC ENGINEER
JANUARY 2022
DATE

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ROLL 11 OF 12

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FIRM Registration No. F-754
17111 Preston Road, Suite 300
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DALLAS DISTRICT DESIGN SCHEMATIC

MOHAMED K. BURI, P.E.
DALLAS DISTRICT ENGINEER

SPUR 399

CSJ: 0364-04-051, 0047-05-058 & 0047-10-002
FROM: US 75
TO: SH 78
FUNCTIONAL CLASS: URBAN FREEWAY
PURPLE ALTERNATIVE LENGTH: 6.4 MILES
ORANGE ALTERNATIVE LENGTH: 7.0 MILES

DESIGN SPEEDS

MAINLANES (FREEWAYS)	70 MPH
FRONTAGE ROADS (PRINCIPAL ARTERIALS)	50 MPH
FRONTAGE ROADS (COLLECTORS)	40 MPH
CROSS STREETS (MAJOR COLLECTOR)	VARIES

END OF PURPLE ALTERNATIVE
STA 1000+00 = STA 1000+00 ORANGE ALTERNATIVE

END OF ORANGE ALTERNATIVE
STA 1000+00 = STA 1000+00 PURPLE ALTERNATIVE

LOCATION MAP
NOT TO SCALE

BEGIN PROJECT SPUR 399 (CONCRETE)
STATION 1000+00 = STATION 1000+00 PURPLE ALTERNATIVE
STATION 1000+00 = STATION 1000+00 ORANGE ALTERNATIVE

END PROJECT SPUR 399 (CONCRETE)
STATION 1000+00 = STATION 1000+00 PURPLE ALTERNATIVE
STATION 1000+00 = STATION 1000+00 ORANGE ALTERNATIVE

SCALE: HORIZONTAL 1"=100'
SCALE: VERTICAL 1"=10'

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JANUARY 2022

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SUBJECT TO REVISIONS

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DATE
JANUARY 2022
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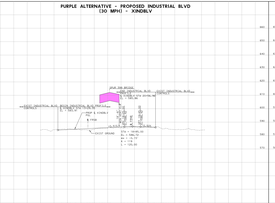
ROLL 12 OF 12

HDR
FIRM Registration No. F-754
17111 Preston Road, Suite 300
DALLAS, TEXAS 75248-1230
972.450.3400

PURPLE ALTERNATIVE CROSS STREETS

PURPLE ALTERNATIVE - PROPOSED INDUSTRIAL BLVD (30 MPH) - XINDNLV


PROPOSED INDUSTRIAL BLVD - SOUTH BOUND LANES
PROPOSED INDUSTRIAL BLVD - NORTH BOUND LANES
EXISTING INDUSTRIAL BLVD
EXISTING SPUR 399 (CONCRETE)
EXISTING SPUR 399 (CONCRETE)
EXISTING SPUR 399 (CONCRETE)