SHEET 1 OF 8

TEXAS DEPARTMENT OF TRANSPORTATION
SCHEMATIC LAYOUT
LOOP 410 - BEXAR COUNTY
OFFICE OF THE DISTRICT ENGINEER
SAN ANTONIO, TEXAS

CONTROL: 0521 SECTION: 05 JOB: 144
LIMITS: FROM SH16 TO US 90
LENGTH = 9.830 MILES
CONTROL: 0521 SECTION: 04 JOB: 279
LIMITS: FROM US 90 TO INGRAM RD
LENGTH = 6.345 MILES

CONTROL: 0521 SECTION: 04 JOB: 204 (PS&E)
LIMITS: FROM US 151 TO INGRAM RD
LENGTH = 2.707 MILES

DESIGN SPEED:	
MAIN LANES	60 MPH
FRONTAGE ROADS	35 MPH
DIRECT CONNECTORS	35-45 MPH
COLLECTOR DISTRIBUTORS	35 MPH
RAMPS	35 MPH
CROSS STREETS	30 MPH
ACCESS ROADS	15 MPH

FUNCTIONAL CLASS: URBAN INTERSTATE

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SUBMITTED FOR APPROVAL
FOR FURTHER PROJECT DEVELOPMENT

RECOMMENDED BY

ADVANCED PROJECT
DEVELOPMENT DIRECTOR

RECOMMENDED BY

APPROVED BY

DIRECTOR, TRANSPORTATION
PLANNING & DEVELOPMENT

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THE HNTB COMPANIES
ENGINEERS ARCHITECTS PLANNERS
9601 McALLISTER FREEWAY
SUITE 1001
SAN ANTONIO, TX 78216
(210) 349-2277

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INTERIM REVIEW ONLY
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Engineer: RAFAEL A. RIOJAS
P.E. Serial No.: 83999
Date: 3/4/2019

SH 16 TO I-35
PROJECTED ADT: 58,100 (2025)
PROJECTED ADT: 86,700 (2055)

I-35 TO MEDINA BASE ROAD
PROJECTED ADT: 94,400 (2025)
PROJECTED ADT: 140,700 (2055)

MEDINA BASE ROAD TO US 90
PROJECTED ADT: 134,200 (2025)
PROJECTED ADT: 199,700 (2055)

US 90 TO SH 151
PROJECTED ADT: 182,900 (2025)
PROJECTED ADT: 272,700 (2055)

SH 151 TO INGRAM
PROJECTED ADT: 253,900 (2025)
PROJECTED ADT: 378,300 (2055)

DATE: DECEMBER 2018

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

SHEET 2 OF 8

TEXAS DEPARTMENT OF TRANSPORTATION
SCHEMATIC LAYOUT
LOOP 410 - BEXAR COUNTY
OFFICE OF THE DISTRICT ENGINEER
SAN ANTONIO, TEXAS

CONTROL: 0521 SECTION: 05 JOB: 144
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FUNCTIONAL CLASS: URBAN INTERSTATE

PRELIMINARY ONLY
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SUBMITTED FOR APPROVAL
FOR FURTHER PROJECT DEVELOPMENT

RECOMMENDED BY

ADVANCED PROJECT DEVELOPMENT DIRECTOR

RECOMMENDED BY

APPROVED BY

DIRECTOR, TRANSPORTATION PLANNING & DEVELOPMENT

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PROJECTED ADT: 253,900 (2025)
PROJECTED ADT: 378,300 (2055)

NOTE:
PROFILE DATA SHOWN WITHIN "WIDENING & OVERLAY" LIMITS IS FOR INFORMATION ONLY TO MATCH EXISTING PROFILE.

DATE: DECEMBER 2018

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

Scale: 1:100
Plotted on: 3/4/2019 12:56:30 PM

TEXAS DEPARTMENT OF TRANSPORTATION
SCHEMATIC LAYOUT
LOOP 410 - BEXAR COUNTY
OFFICE OF THE DISTRICT ENGINEER
SAN ANTONIO, TEXAS

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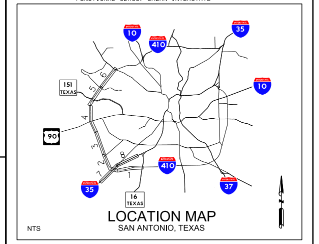
FUNCTIONAL CLASS: URBAN INTERSTATE



BEARING BASED ON THE TEXAS STATE PLANE COORDINATE SYSTEM, NAD83, CENTRAL ZONE AND ADJUSTED TO SURFACE USING PROJECTED SURFACE ADJUSTMENT FACTOR OF 1.00017.

EQUATIONS: NONE

RAILROADS: UPRR (2 CROSSINGS - STA 1609+50 CL "IH410" AND STA 1639+75 CL "IH410"

EXCEPTIONS: NONE

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SUBMITTED FOR APPROVAL
FOR FURTHER PROJECT DEVELOPMENT

RECOMMENDED BY ____________

ADVANCED PROJECT
DEVELOPMENT DIRECTOR

RECOMMENDED BY ____________

APPROVED BY ____________

DIRECTOR, TRANSPORTATION
PLANNING & DEVELOPMENT

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DATE: DECEMBER 2018

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

SHEET 4 OF 8

TEXAS DEPARTMENT OF TRANSPORTATION
SCHEMATIC LAYOUT
LOOP 410 - BEXAR COUNTY
OFFICE OF THE DISTRICT ENGINEER
SAN ANTONIO, TEXAS

CONTROL: 0521 SECTION: 05 JOB: 144
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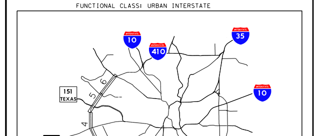
FUNCTIONAL CLASS: URBAN INTERSTATE



LOCATION MAP
SAN ANTONIO, TEXAS

BEARING BASED ON THE TEXAS STATE PLANE COORDINATE SYSTEM, NAD83, CENTRAL ZONE AND ADJUSTED TO SURFACE USING PROJECTED SURFACE ADJUSTMENT FACTOR OF 1.00017.

EQUATIONS: NONE

RAILROADS: UPRR (2 CROSSINGS - STA 1609+50 CL "IH410" AND STA 1639+75 CL "IH410"

EXCEPTIONS: NONE

PRELIMINARY ONLY
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PLAN VIEW LEGEND

- MAIN LANES/RAMPS
- FRONTAGE ROAD/INTERSECTION
- MAIN LANE OVERLAY
- DIRECT CONNECTORS - CONCRETE
- DIRECT CONNECTORS - STEEL
- SIDEWALK
- UNDER CONSTRUCTION
- CLEARED UNDER SEPARATE DOCUMENT
- RAISED MEDIAN
- EXISTING ROADWAY TO BE REMOVED
- PROPOSED WIDENING
- PROPOSED ROW
- EXISTING ROW
- PROPOSED LANE DIRECTION
- RETAINING WALL (RW)
- EXISTING DRAINAGE
- PROPOSED DRAINAGE
- TELECOMM LINE
- OVERHEAD TELECOMM LINE
- ELECTRIC LINE
- OVERHEAD ELECTRIC LINE
- WATER LINE
- WASTEWATER LINE
- STORMWATER LINE
- AIR LINE
- GAS LINE
- PROPOSED TRAFFIC SIGNAL
- EXISTING TRAFFIC SIGNAL TO BE MAINTAINED
- EXISTING STOP SIGN TO BE MAINTAINED

SUBMITTED FOR APPROVAL
FOR FURTHER PROJECT DEVELOPMENT

RECOMMENDED BY

ADVANCED PROJECT
DEVELOPMENT DIRECTOR

RECOMMENDED BY

APPROVED BY

DIRECTOR, TRANSPORTATION
PLANNING & DEVELOPMENT

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DATE: DECEMBER 2018

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

PROFILE VIEW LEGEND

- EXISTING GROUND
- PROPOSED GRADE
- ML BRIDGE
- FR BRIDGE
- DC BRIDGE - CONCRETE
- DC BRIDGE - STEEL

Scale: 1:100
Plotted on: 3/4/2019 2:32:13 PM

6:14:12 PM

Scale: 1:100
Plotted on: 3/4/2019

SHEET 5 OF 8

TEXAS DEPARTMENT OF TRANSPORTATION
SCHEMATIC LAYOUT
LOOP 410 - BEXAR COUNTY
OFFICE OF THE DISTRICT ENGINEER
SAN ANTONIO, TEXAS

CONTROL: 0521 SECTION: 05 JOB: 144
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FUNCTIONAL CLASS: URBAN INTERSTATE

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ADVANCED PROJECT
DEVELOPMENT DIRECTOR

RECOMMENDED BY

APPROVED BY

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DATE: DECEMBER 2018

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

1:24:11 PM
Scale: 1:100
Plotted on: 3/4/2019

TEXAS DEPARTMENT OF TRANSPORTATION
SCHEMATIC LAYOUT
LOOP 410 - BEXAR COUNTY
OFFICE OF THE DISTRICT ENGINEER
SAN ANTONIO, TEXAS

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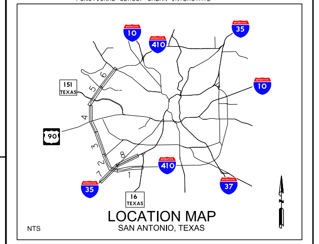
FUNCTIONAL CLASS: URBAN INTERSTATE



LOCATION MAP
SAN ANTONIO, TEXAS

BEARING BASED ON THE TEXAS STATE PLANE COORDINATE SYSTEM, NAD83, CENTRAL ZONE AND ADJUSTED TO SURFACE USING PROJECTED SURFACE ADJUSTMENT FACTOR OF 1.00017.

EQUATIONS: NONE

RAILROADS: UPRR (2 CROSSINGS - STA 1609+50 CL "IH410" AND STA 1639+75 CL "IH410"
EXCEPTIONS: NONE

PLAN VIEW LEGEND

MAIN LANES/RAMPS	
FRONTAGE ROAD/INTERSECTION	
MAIN LANE OVERLAY	
DIRECT CONNECTORS - CONCRETE	
DIRECT CONNECTORS - STEEL	
SIDEWALK	
UNDER CONSTRUCTION	
CLEARED UNDER SEPARATE DOCUMENT	
RAISED MEDIAN	
EXISTING ROADWAY TO BE REMOVED	
PROPOSED WIDENING	
PROPOSED ROW	
EXISTING ROW	
TELECOMM LINE	
OVERHEAD TELECOMM LINE	
ELECTRIC LINE	
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WATER LINE	
WASTEWATER LINE	
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AIR LINE	
GAS LINE	
PROPOSED TRAFFIC SIGNAL	
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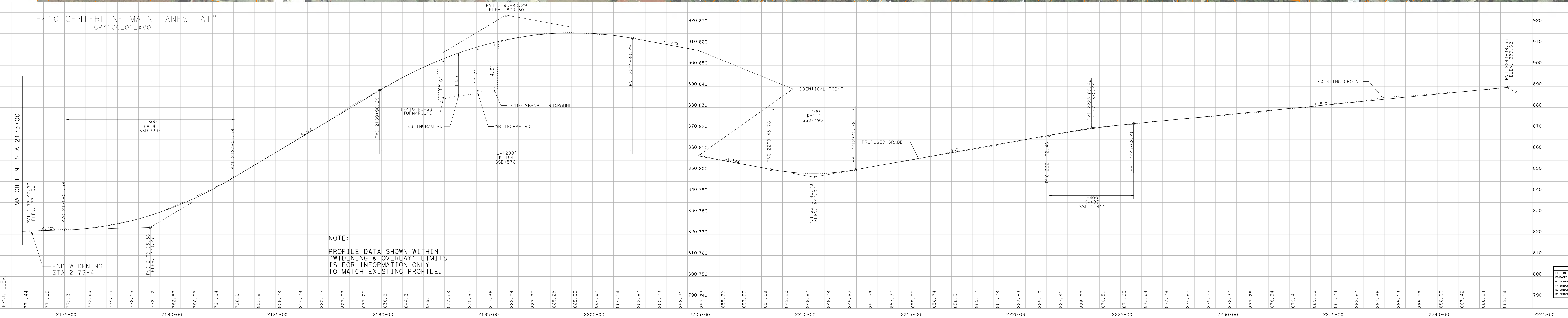
EXISTING STOP SIGN TO BE MAINTAINED	



PROFILE VIEW LEGEND

EXISTING GROUND	
PROPOSED GRADE	
ML BRIDGE	
FR BRIDGE	
DC BRIDGE - CONCRETE	
DC BRIDGE - STEEL	

SUBMITTED FOR APPROVAL
FOR FURTHER PROJECT DEVELOPMENT

RECOMMENDED BY

ADVANCED PROJECT DEVELOPMENT DIRECTOR

RECOMMENDED BY

APPROVED BY

DIRECTOR, TRANSPORTATION PLANNING & DEVELOPMENT

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DATE: DECEMBER 2018

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

Pen Table: TexasTwoStep_pentable_co.tbl

TEXAS DEPARTMENT OF TRANSPORTATION
SCHEMATIC LAYOUT
LOOP 410 - BEXAR COUNTY
OFFICE OF THE DISTRICT ENGINEER
SAN ANTONIO, TEXAS

CONTROL 0731 SECTIONS 10 - 12, JOB 143
LIMITS: FROM IH 35 TO US 90
LENGTH = 6.836 MILES

CONTROL 0731 SECTIONS 13 - 14, JOB 270
LIMITS: FROM US 90 TO INDIAN RD
LENGTH = 6.949 MILES

CONTROL 0731 SECTIONS 09 - 17, JOB 254 (PTAS)
LIMITS: FROM IH 35 TO INDIAN RD
LENGTH = 2.707 MILES

DESIGN SPEED MAIN LANES:
FREEWAY MAINLANES: 60 MPH
FREEWAY RAMPS: 40 MPH
FREEWAY CONNECTORS: 40 MPH
FRONTAGE ROAD: 30 MPH
CROSS STREETS: 30 MPH
CROSS STREET RAMPS: 30 MPH
CROSS STREET CONNECTORS: 30 MPH

LOCATION MAP

MAPPING BASED ON THE TEXAS STATE PLANE COORDINATE SYSTEM, NORTH, CENTRAL ZONE AND ADJUSTED TO SURFACE USING THE TEXAS COORDINATE SYSTEM FACTOR OF 1.00013

CONVERTING TO:
MULTIPLY GRID BY 1.00013 TO OBTAIN SURFACE DISTANCE
DIVIDE GRID BY 0.99987 TO OBTAIN GRID DISTANCE

EXCEPTIONS: NONE

SUBMITTED FOR APPROVAL
FOR CAPITAL PROJECT DEVELOPMENT

RECOMMENDED BY:

ADVANCED PROJECT
DEVELOPMENT DIRECTOR

RECOMMENDED BY:

APPROVED BY:

DIRECTOR, TRANSPORTATION
PLANNING & DEVELOPMENT

Design Lead:
Texas Department of Transportation

HNTB

HNTB CORPORATION
TBPE FIRM F-2529
TBPLS FIRM 10046400
9800 HILLPOINTE ROAD
BUILDING 2, SUITE 150
SAN ANTONIO, TX 78249
210.690.7100

TYPE OF WORK:
PROJECT NOT ON NHS - NON - LEGACY
PROJECT NOT ON NHS - NON - LEGACY

LOOP 410 BRIDGE WIDE WIDENING
PROJECT NOT ON NHS - NON - LEGACY
PROJECT NOT ON NHS - NON - LEGACY

IH 35 NB OFF RAMP
PROJECT NOT ON NHS - NON - LEGACY
PROJECT NOT ON NHS - NON - LEGACY

IH 35 NB ON RAMP
PROJECT NOT ON NHS - NON - LEGACY
PROJECT NOT ON NHS - NON - LEGACY

IH 35 SB OFF RAMP
PROJECT NOT ON NHS - NON - LEGACY
PROJECT NOT ON NHS - NON - LEGACY

IH 35 SB ON RAMP
PROJECT NOT ON NHS - NON - LEGACY
PROJECT NOT ON NHS - NON - LEGACY

DATE: DECEMBER 2018

SCALE: 1"=100' H
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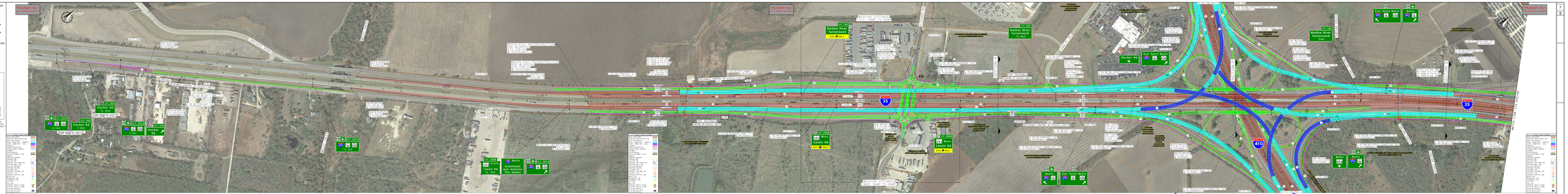

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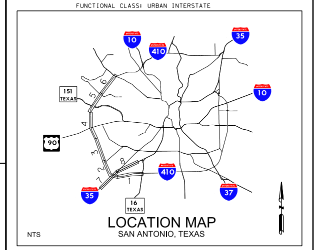

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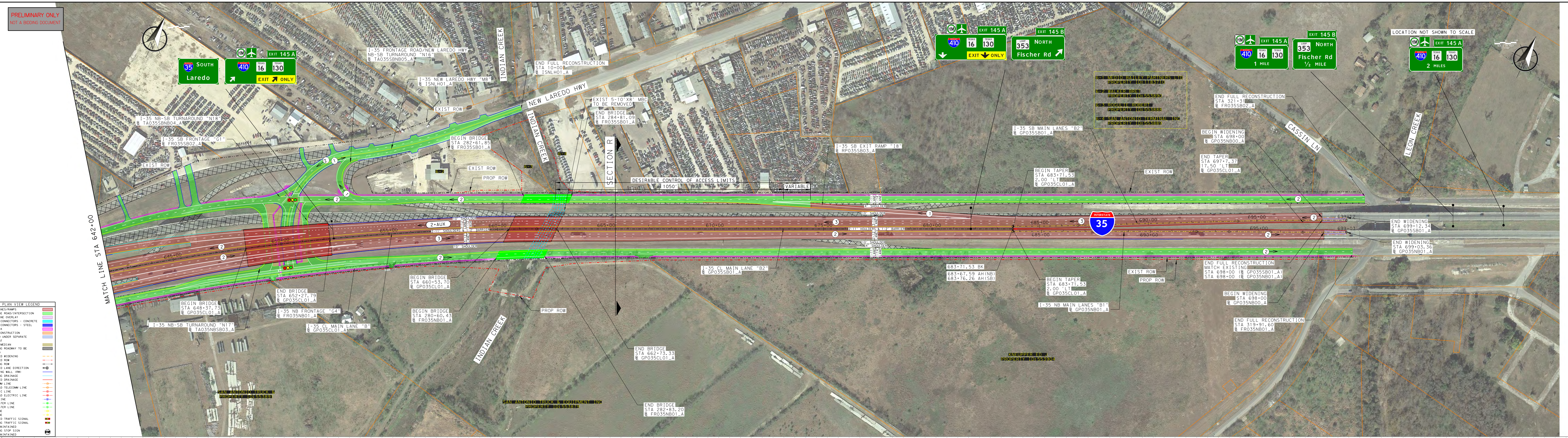

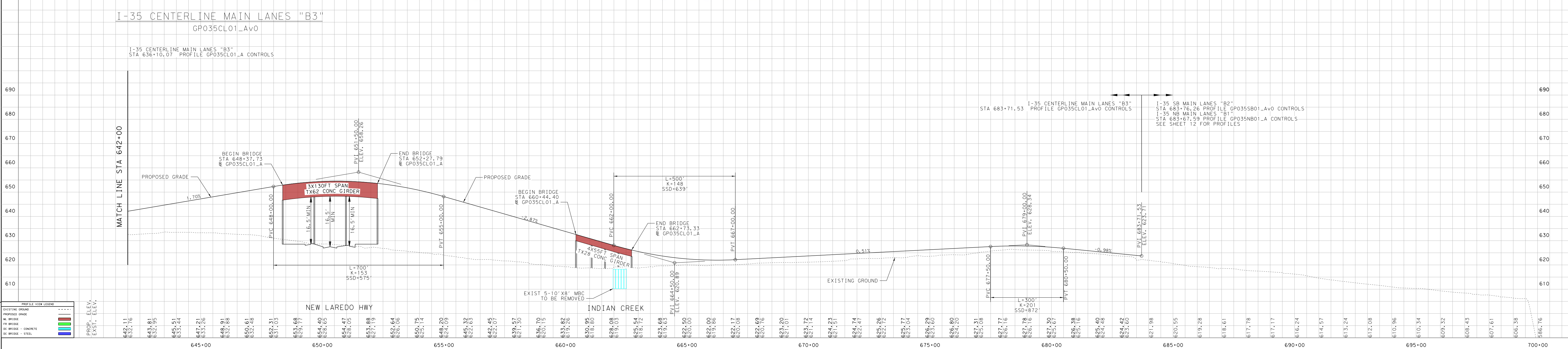

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PROFILE VIEW LEGEND
EXISTING GROUND
PROPOSED GRADE
ML BRIDGE
FR BRIDGE
DC BRIDGE - CONCRETE
DC BRIDGE - STEEL

DATE: DECEMBER 2018

SCALE: 1":100' H
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