TEXAS DEPARTMENT OF TRANSPORTATION

PRELIMINARY DESIGN SCHEMATIC

US 183 (BELL BLVD)

WILLIAMSON COUNTY

DATE 10/16/2018

CSJ 0151-05-115
OFFICE OF THE GEORGETOWN
AREA ENGINEER
AUSTIN DISTRICT (DISTRICT 14)

ROADWAY - 4446.92 FT
TOTAL - 4446.92 FT

NET LENGTH OF PROJECT - 4446.92 FT = 0.842 MI

LIMITS: FROM CEDAR PARK DRIVE TO SOUTH OF BUTTERCUP CREEK BLVD

FOR THE CONSTRUCTION OF US 183 (BELL BLVD) CONSISTING OF GRADING, BASE, ASPHALT PAVEMENT, AESTHETIC WALL, CULVERTS, SIGNING, AND PAVEMENT MARKINGS.

DESIGN DATA

	FUNCTIONAL CLASSIFICATION	DESIGN SPEED
US 183 (BELL BLVD)	PRINCIPAL ARTERIAL	45 mph
BUTTERCUP CREEK BLVD	LOW SPEED LOCAL	30 mph
BRUSHY CREEK RD	LOW SPEED LOCAL	20 MPH

BASIS OF DESIGN: TxDOT ROADWAY DESIGN MANUAL 2018 (REV. APRIL)
TxDOT HYDRAULIC MANUAL
TMUTCD
AASHTO GUIDE FOR DEVELOPMENT OF BICYCLE FACILITIES

CURRENT AND PROJECTED TRAFFIC DATA

HIGHWAY NUMBER: US 183 COUNTY: WILLIAMSON
LIMITS: FROM CYPRESS CREEK RD TO CEDAR PARK DR
TRAFFIC VOLUMES: EXISTING ADT – 48,000 (2020)
(design year) – 65,400 (2040)
TRUCK PERCENTAGE: 4.2
DIRECTIONAL DISTRIBUTIONS: 58-42 %
DESIGN DHV: 5,559

VICINITY MAP
SCALE: NTS

NOT A BIDDING DOCUMENT

EXCEPTIONS: NONE
EQUATIONS: NONE
RAILROAD CROSSINGS: CAPITAL METRO RAIL

NOT A BIDDING DOCUMENT

10/17/2018
GREGORY T. FALKINS, PLE.
P.L. # 11589
BINKLEY & BARFIELD, INC. F-257
DATE

SUBMITTED FOR APPROVAL FOR FURTHER PROJECT DEVELOPMENT

RECOMMENDED BY: 10/17/2018
STATE PLANS ENGINEER

RECOMMENDED BY: 10/15/2018 10:47:27 AM PDT
PROJECT DEVELOPMENT ENGINEER

RECOMMENDED BY: 10/15/2018 11:17:11 AM PDT
DISTRICT DESIGN ENGINEER

RECOMMENDED BY: 10/15/2018 11:20:08 AM PDT
AREA ENGINEER

APPROVED BY: 10/15/2018 11:30:16 AM PDT
DIRECTOR, TRANSPORTATION PLANNING & DEVELOPMENT

Texas Department of Transportation

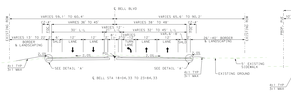
Binkley & Barfield, Inc
consulting engineers
Texas Registration Number F-257
3901 S. LAMAR BLVD., SUITE 430
AUSTIN, TEXAS 78704
512-243-0066

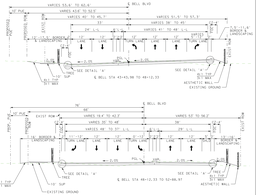
CEDAR PARK

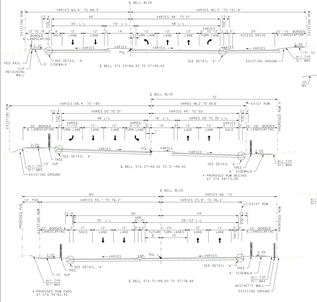
ROLL 1 OF 1

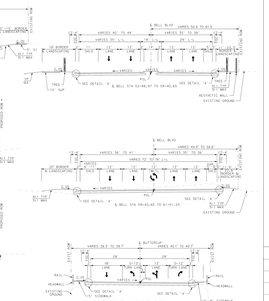
EXISTING TYPICAL SECTION (NTS)

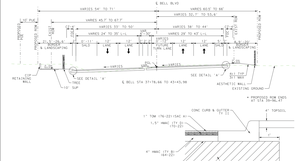
PROPOSED TYPICAL SECTIONS (NTS)

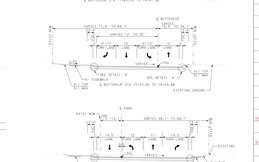


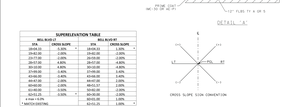




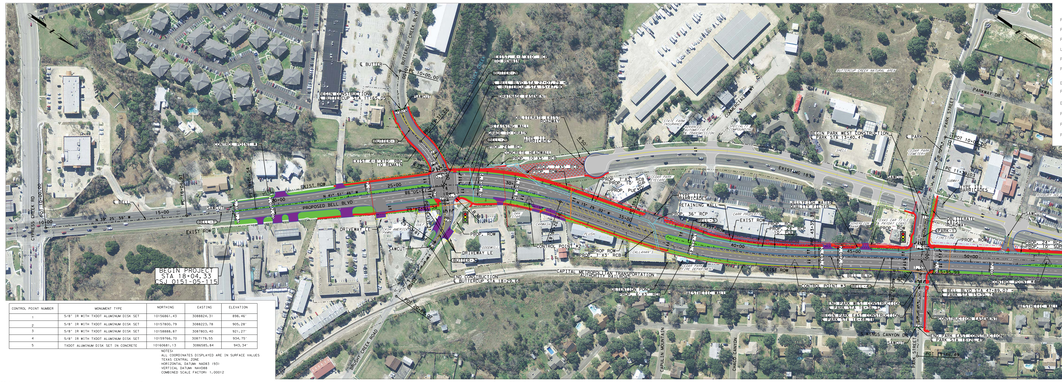






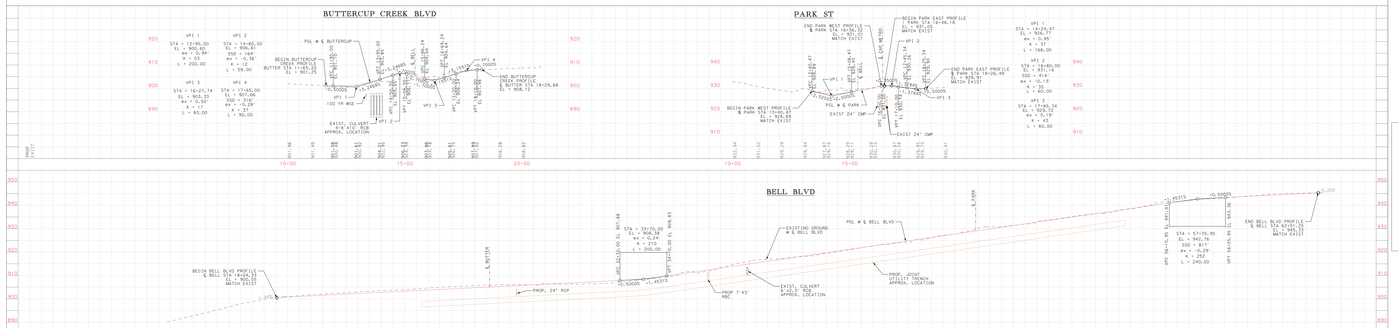


SUPERELEVATION TABLE			
BELL BLVD (L)		BELL BLVD (R)	
STA	%	STA	%
20+00.00	-2.0%	20+00.00	-2.0%
20+82.00	-2.0%	20+82.00	-2.0%
21+00.00	-2.0%	21+00.00	-2.0%
28+57.00	-4.0%	28+57.00	-4.0%
30+32.00	-4.0%	30+32.00	-4.0%
40+00.00	-4.0%	40+00.00	-4.0%
45+00.00	-4.0%	45+00.00	-4.0%
46+57.00	-2.0%	46+57.00	-2.0%
47+32.00	-2.0%	47+32.00	-2.0%
48+00.00	-2.0%	48+00.00	-2.0%
50+00.00	-2.0%	50+00.00	-2.0%
50+82.00	0.0%	50+82.00	0.0%
51+00.00	0.0%	51+00.00	0.0%
60+00.00	0.0%	60+00.00	0.0%



CONTROL POINT NUMBER	MONUMENT TYPE	NORTHING	EASTING	ELEVATION
1	5/8" IR WITH TxDOT ALUMINUM DISK SET	10150661.40	3080625.31	898.46
2	5/8" IR WITH TxDOT ALUMINUM DISK SET	10151965.76	3080625.56	905.08
3	5/8" IR WITH TxDOT ALUMINUM DISK SET	10150868.87	3087605.40	921.07
4	5/8" IR WITH TxDOT ALUMINUM DISK SET	10150796.70	3087176.51	934.70
5	TxDOT ALUMINUM DISK SET IN CONCRETE	10150981.13	3086595.84	945.54

ALL COORDINATES DISPLAYED ARE ON SURFACE VALUES
TEXAS CENTRAL ZONE
NAD 83 (2011) (EPOCH 2010.00)
VERTICAL DATUM NAVD88
COMBINED SCALE FACTOR: 1.00012



LEGEND

PROPOSED ROADWAY	PROPOSED OVHD LIGHTING (ELE)
PROPOSED RESTRIPING	PROPOSED DRAINAGE
PROPOSED SIDEWALK	PROPOSED WASTEWATER
LANDSCAPING	PROPOSED WATER
PROPOSED DRIVEWAY	PROPOSED JOINT TRENCH
PAVEMENT REMOVAL	PROPOSED AT&T DUCT
EXISTING TRAFFIC FLOW	PROPOSED AESTHETIC WALL
PROPOSED TRAFFIC FLOW	PROPOSED RETAINING WALL
EXIST ROW	PROPOSED ILLUMINATION (25' POLE)
PROPOSED ROW	
PROPOSED PUE	
PROPOSED DRAINAGE EASEMENT	

NOTE: PROJECT INSIDE EDWARDS AQUIFER CONTRIBUTING ZONE

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CEDAR PARK

ROLL 1 OF 1