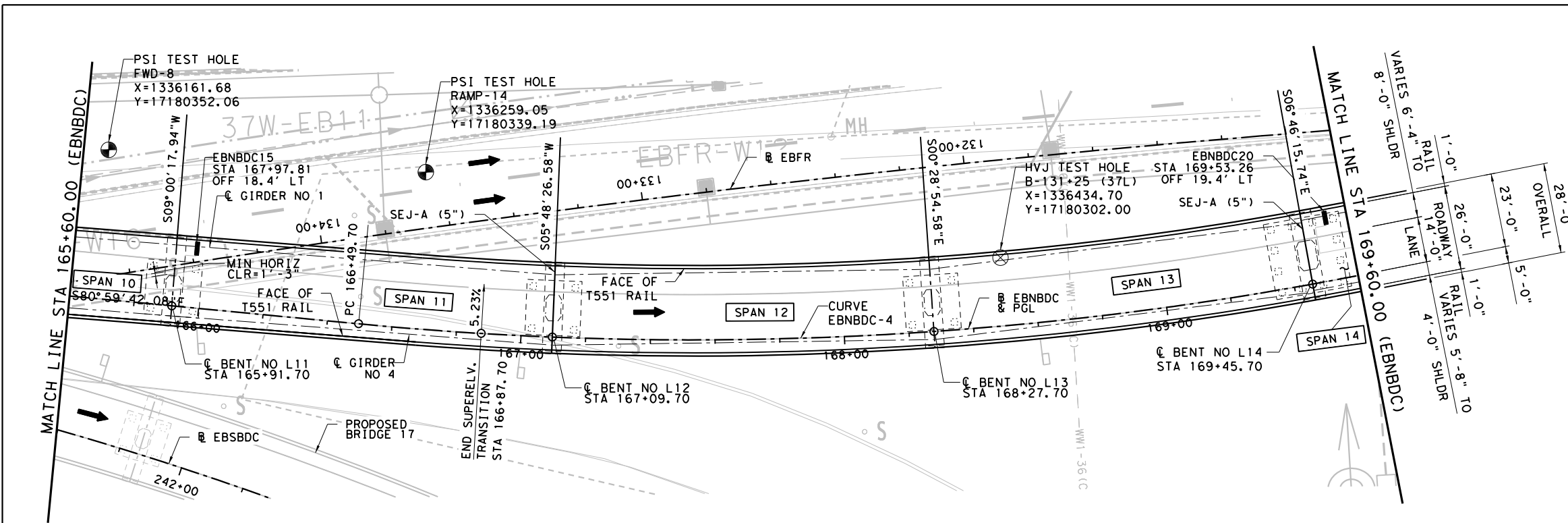


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DATE: 8/16/2017 TIME: 7:21:11 PM USER: rshinn



CURVE EBNBDC-4
P.I. STATION 177+04.77
DELTA 88°55'39.75" (LT)
DEGREE 05°19'47.42"
TANGENT 1,055.07'
LENGTH 1,668.49'
RADIUS 1,075.00'
P.C. STATION 166+49.70
P.T. STATION 183+18.19

DESIGN DATA
NBI NO XX-XXX-X-XXXX-XX-XXX
FUNC CLASS: DIRECT CONNECTOR
DESIGN SPEED: 45 MPH
ADT: BRIDGE DC-L
(2023) = 7,960
(2035) = 9,380

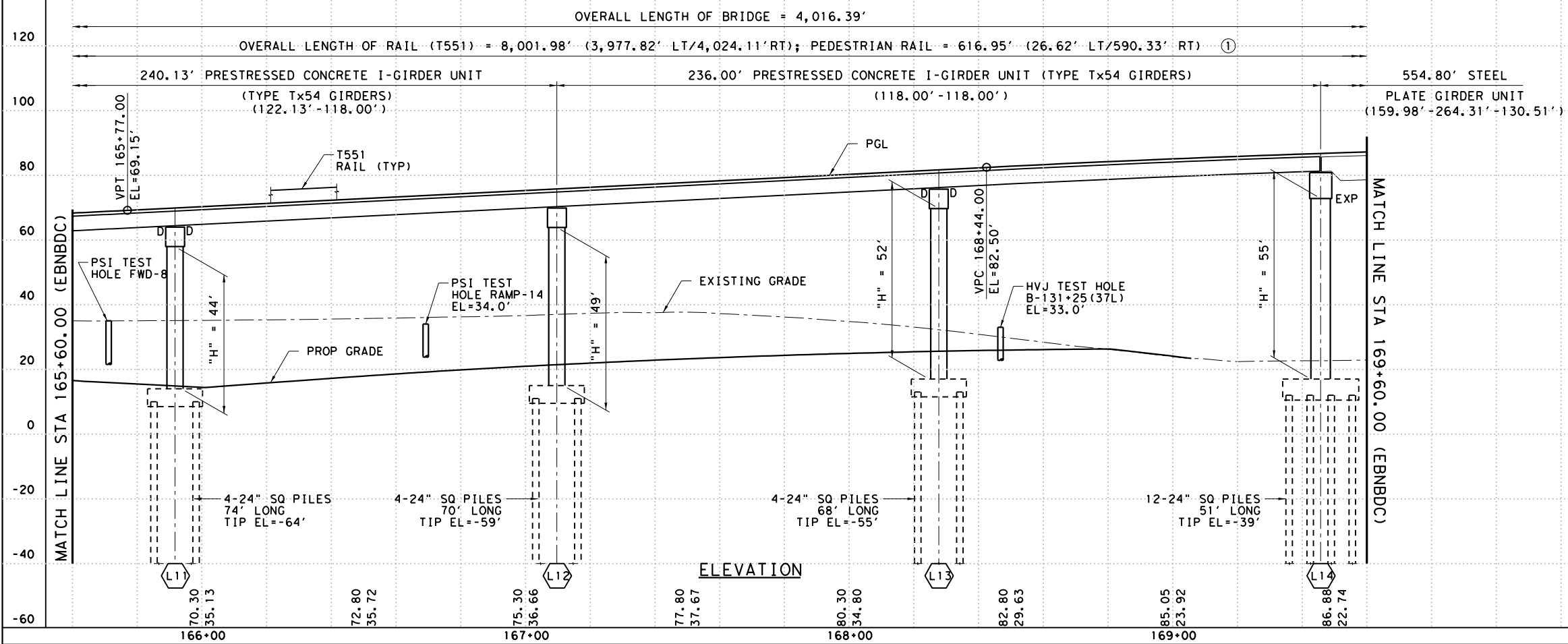
ALL BENTS RADIAL TO
ALIGNMENT UNLESS
NOTED OTHERWISE

PSI BORE HOLE
HVJ BORE HOLE

LEGEND

PROPOSED TRAFFIC FLOW
EXISTING TRAFFIC FLOW

- NOTES:
- SEE "GENERAL NOTES" SHEETS FOR GENERAL NOTES.
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 - SEE SIGNAGE SHEETS FOR SIGN LOCATIONS AND BRIDGE MOUNT DETAILS.
 - SOIL EXPLORATION DATA PROVIDED BY PSI.
 - SEE HVJ GEOTECHNICAL DATA REPORT DATED 9/29/2014 FOR HVJ BORING DATA.
 - BRIDGE NOT DESIGNED FOR OVERLAY LOAD.
- ① INCLUDES ADDITIONAL RAIL LENGTH AT GORE AREAS.



FIGG BRIDGE ENGINEERS, INC.
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CESAR FERNANDES 98112 08/16/2017
TBPE FIRM #F-4883 P.E. NO. DATE

HL-93 LOADING

NO.	DATE	REVISION	APPROVED

FLATIRON/DRAGADOS LLC
FIGG
TBPE, FIRM # F-4883

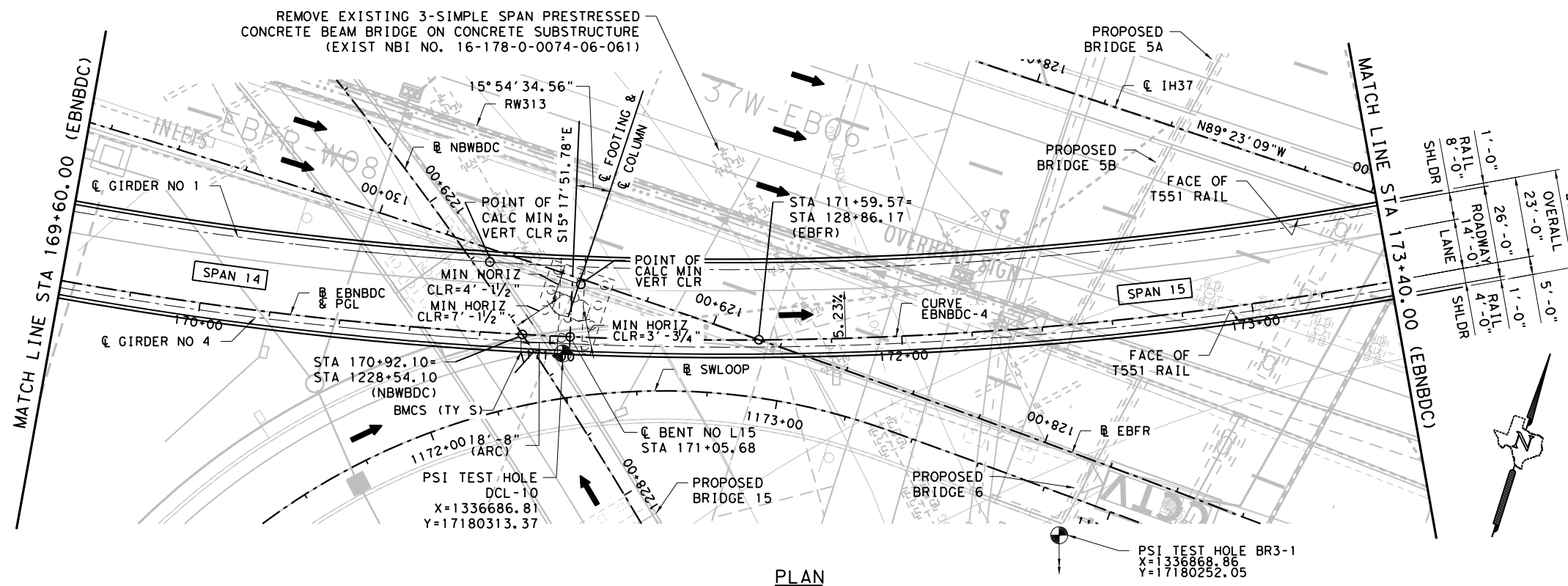
Texas Department of Transportation
US 181 HARBOR BRIDGE

BRIDGE LAYOUT

DIRECT CONNECTOR
IH 37 SB TO US 181 NB
BRIDGE 16, CONN "L"

SCALE: 1"=40'-0"			SHEET 4 OF 11	
DESIGN SNO	FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.		HIGHWAY NO.
GRAPHICS JLS	X	(See Title Sheet)		US 181
CHECK RLS	STATE	DISTRICT	COUNTY	SHEET NO.
CHECK CF	TEXAS	CRP	NUECES	RB16004
	CONTROL	SECTION	JOB	
	0101	06	095	



PRELIMINARY NOT FOR CONSTRUCTION, AUGUST 2017



CURVE EBNBDC-4	
P. I. STATION	177+04.77
DELTA	= 88° 55' 39.75" (LT)
DEGREE	= 05° 19' 47.42"
TANGENT	= 1,055.07'
LENGTH	= 1,668.49'
RADIUS	= 1,075.00'
P. C. STATION	166+49.70
P. T. STATION	183+18.19

DESIGN DATA
NBI NO XX-XXX-X-XXXX-XX-XXX
FUNC CLASS: DIRECT CONNECTOR
DESIGN SPEED: 45 MPH
ADT: BRIDGE DC-L
(2023) = 7,960
(2035) = 9,380

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NOTED OTHERWISE

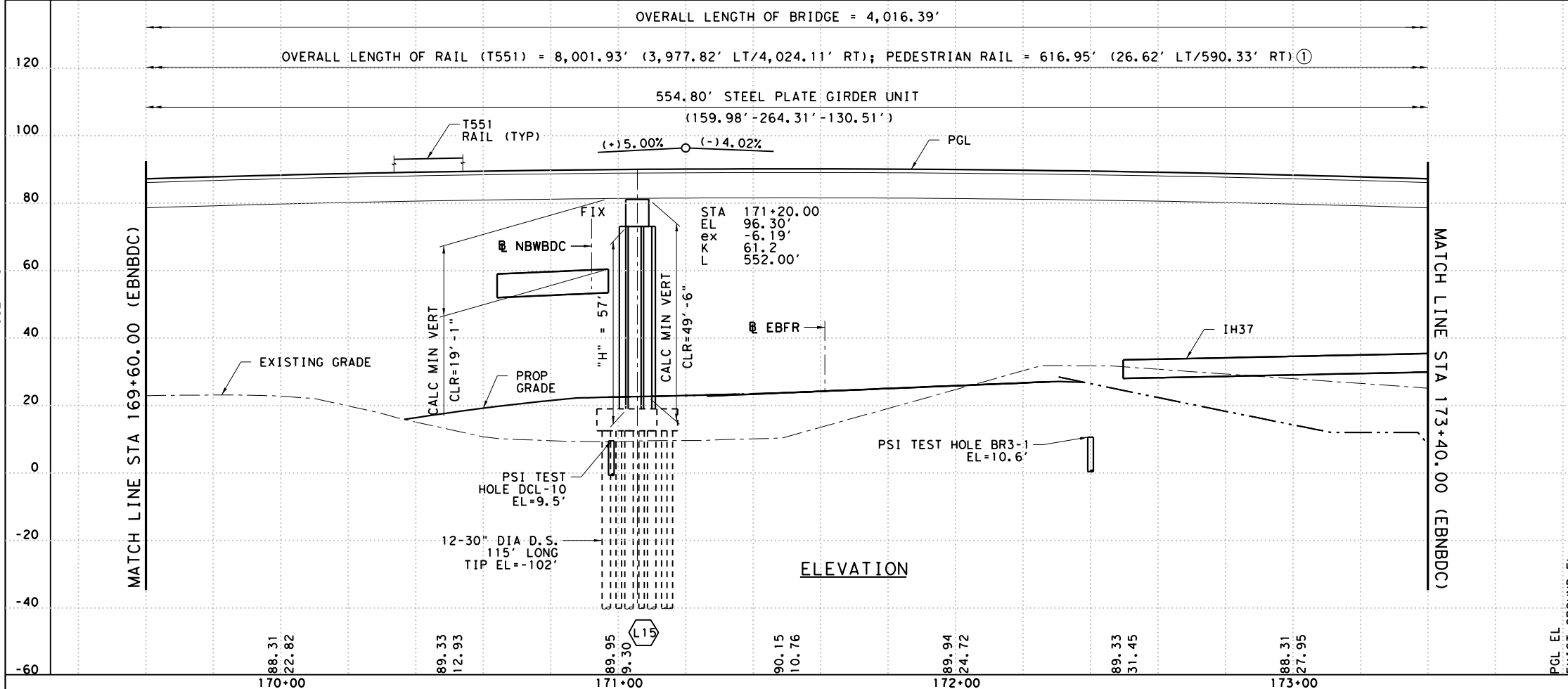
 PSI BORE HOLE
 HVJ BORE HOLE

LEGEND

 PROPOSED TRAFFIC FLOW
 EXISTING TRAFFIC FLOW

NOTES:

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14. BRIDGE NOT DESIGNED FOR OVERLAY LOAD.
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CESAR FERNANDES 98112 08/16/2017

HL-93 LOADING

0			
0	NO.	DATE	REVISION APPROVED



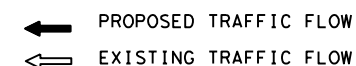
US 181 HARBOR BRIDGE BRIDGE LAYOUT

DIRECT CONNECTOR
IH 37 SB TO US 181 NB
BRIDGE 16, CONN "L"

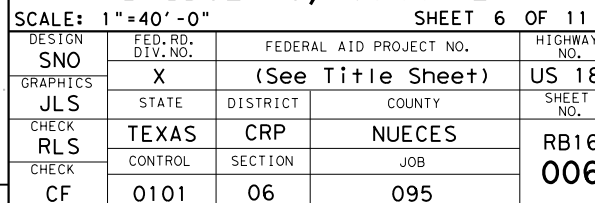
SCALE: 1" = 40' - 0"

SHEET 5 OF 11

0	DESIGN SNO	FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.		HIGHWAY NO.
	GRAPHICS JLS	X	(See Title Sheet)		US 18
0	CHECK RLS	STATE	DISTRICT	COUNTY	SHEET NO.
	CHECK	TEXAS	CRP	NUECES	RB16
	CF	CONTROL	SECTION	JOB	005

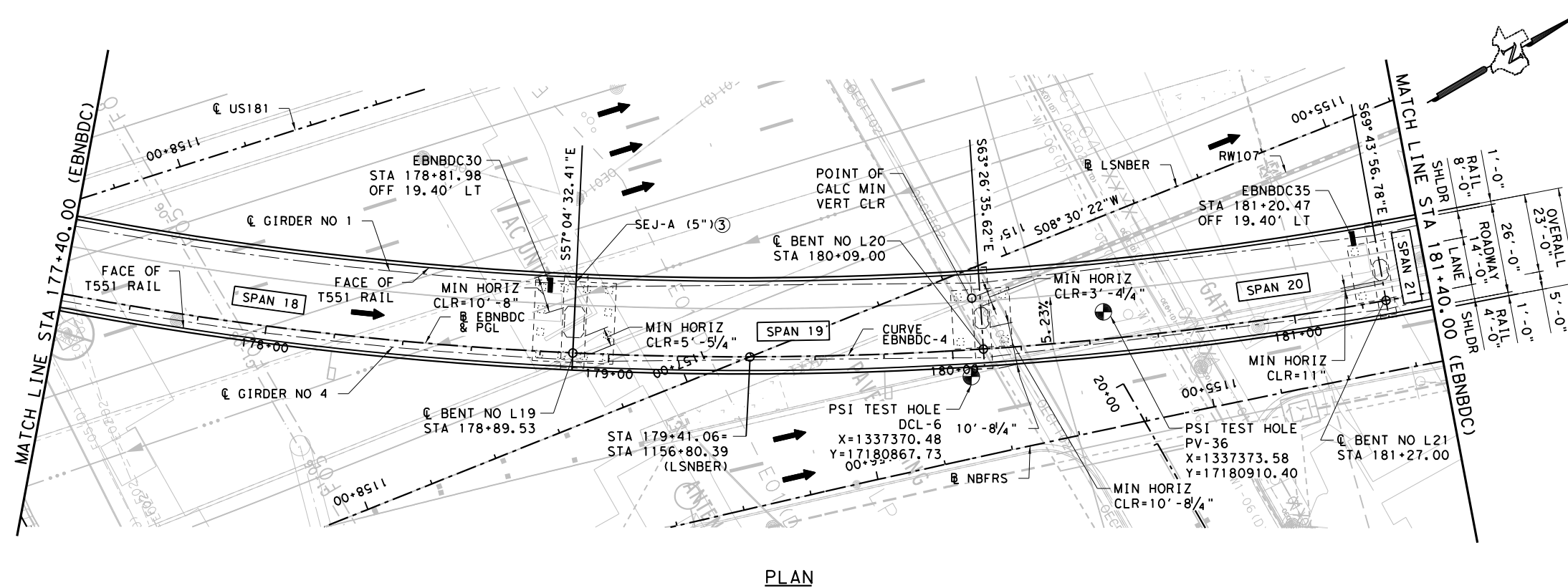


- PRELIMINARY NOT FOR CONSTRUCTION, AUGUST 2017



FILE: c:\pw\online\stantec\dms76190\16HBRBL06.dgn
DATE: 8/16/2017 TIME: 7:21:19 PM USER: rshinn

- NOTES:
1. SEE "GENERAL NOTES" SHEETS FOR GENERAL NOTES.
 2. ROADWAY HORIZONTAL AND VERTICAL GEOMETRY, WIDTH, SUPERELEVATION, TRAFFIC DIRECTION, EXISTING GROUND LINE, PROPOSED GROUND LINE, RIGHT OF WAY AND DRAINAGE DATA PROVIDED BY STANTEC. TOPO DATA PROVIDED BY CIVIL CORP. UTILITY DATA PROVIDED BY KCI.
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③ D.S. BROWN SEAL TYPE A2R-XTRA, SHOWN ON SEJ-A STANDARD SHEET, MUST BE USED AT THIS LOCATION.



CURVE EBNBD-4
P.I. STATION 177+04.77
DELTA 88°55'39.75" (LT)
DEGREE 05°19'47.42"
TANGENT 1,055.07'
LENGTH 1,668.49'
RADIUS 1,075.00'
P.C. STATION 166+49.70
P.T. STATION 183+18.19

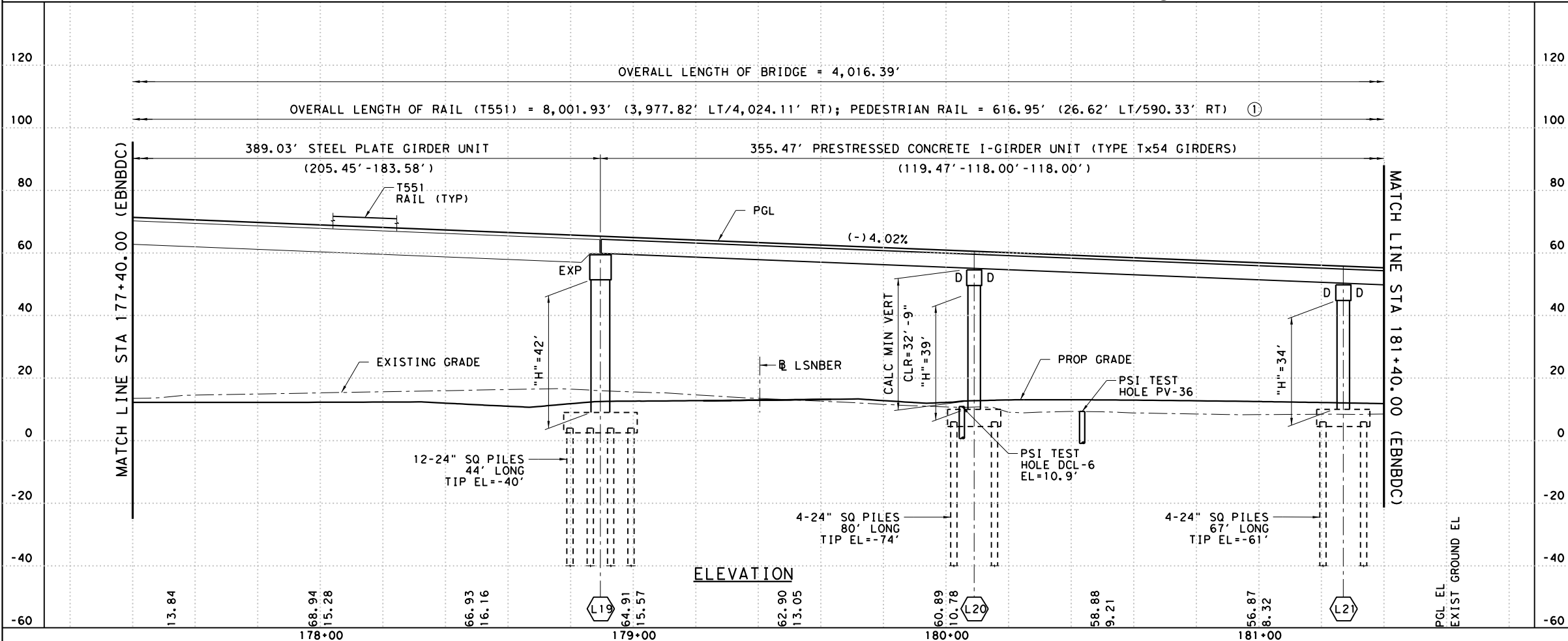
DESIGN DATA
NBI NO XX-XXX-X-XXXX-XX-XXX
FUNC CLASS: DIRECT CONNECTOR
DESIGN SPEED: 45 MPH
ADT: BRIDGE DC-L
(2023) = 7,960
(2035) = 9,380

ALL BENTS RADIAL TO
ALIGNMENT UNLESS
NOTED OTHERWISE

LEGEND

PSI BORE HOLE
HVJ BORE HOLE

PROPOSED TRAFFIC FLOW
EXISTING TRAFFIC FLOW



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CESAR FERNANDES 98112 08/16/2017
TBPE FIRM #F-4883 P.E. NO. DATE

HL-93 LOADING

NO.	DATE	REVISION	APPROVED

FLATIRON/DRAGADOS LLC

FIGG
TBPE, FIRM # F-4883

Texas Department of Transportation
2017

US 181 HARBOR BRIDGE
BRIDGE LAYOUT

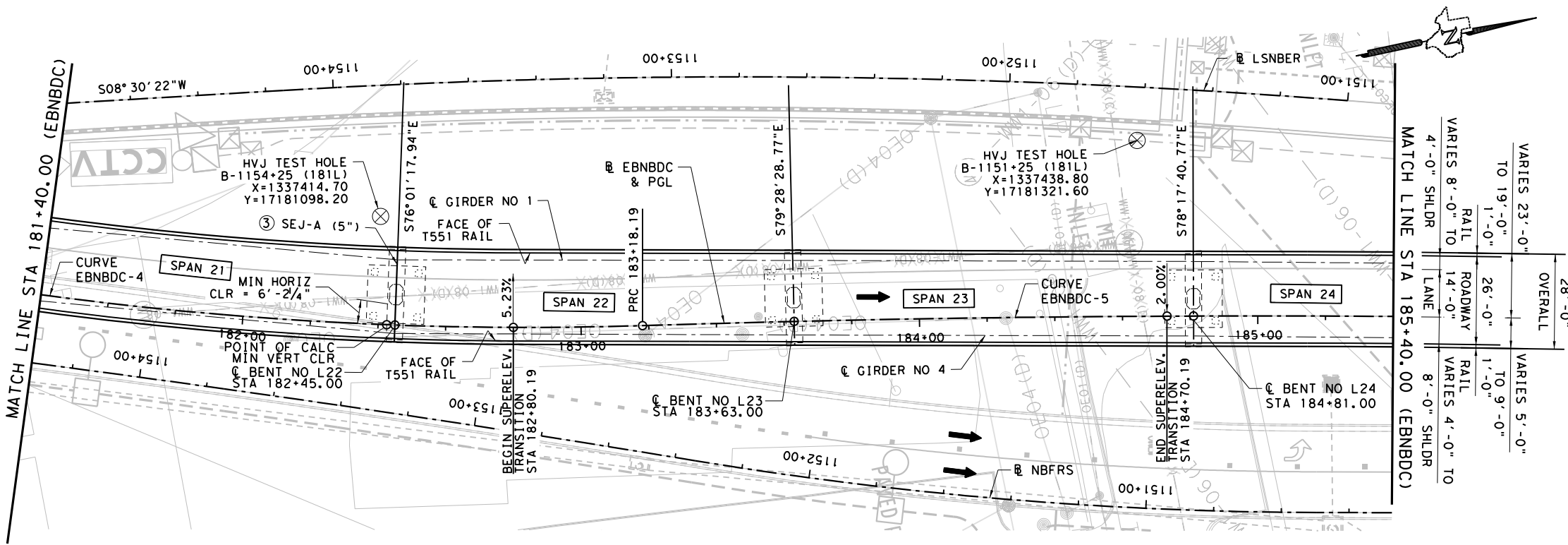
DIRECT CONNECTOR
IH 37 SB TO US 181 NB
BRIDGE 16, CONN "L"

SCALE: 1"=40'-0" SHEET 7 OF 11

DESIGN	FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.	HIGHWAY NO.
SNO	X	(See Title Sheet)	US 181
GRAPHICS	STATE	DISTRICT	COUNTY
JLS	TEXAS	CRP	NUECES
CHECK	CONTROL	SECTION	JOB
RLS	0101	06	095
CHECK			
CF			

RB16
007

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- ③ D.S. BROWN SEAL TYPE A2R-XTRA, SHOWN ON SEJ-A STANDARD SHEET, MUST BE USED AT THIS LOCATION.



CURVE EBNBDC-4		CURVE EBNBDC-5	
P.I. STATION	177+04.77	P.I. STATION	187+94.64
DELTA	88°55'39.75" (LT)	DELTA	09°30'25.81" (RT)
DEGREE	05°19'47.42"	DEGREE	01°00'00.00"
TANGENT	1,055.07'	TANGENT	476.45'
LENGTH	1,668.49'	LENGTH	950.72'
RADIUS	1,075.00'	RADIUS	5,729.58'
P.C. STATION	166+49.70	P.C. STATION	183+18.19
P.T. STATION	183+18.19	P.T. STATION	192+68.91

DESIGN DATA
NBI NO XX-XXX-X-XXXX-XX-XXX
FUNC CLASS: DIRECT CONNECTOR
DESIGN SPEED: 45 MPH
ADT: BRIDGE DC-L
(2023) = 7,960
(2035) = 9,380

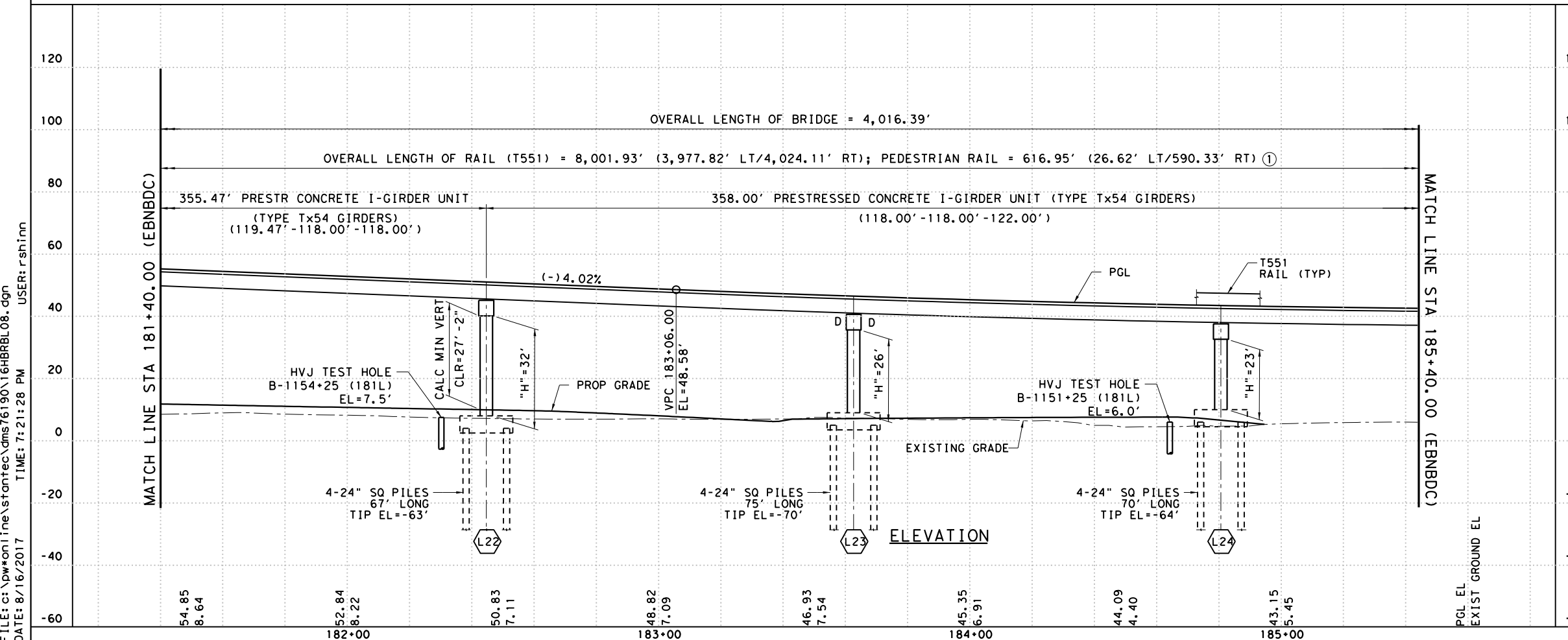
PLAN

ALL BENTS RADIAL TO ALIGNMENT UNLESS NOTED OTHERWISE

PSI BORE HOLE
HVJ BORE HOLE

LEGEND

PROPOSED TRAFFIC FLOW
EXISTING TRAFFIC FLOW



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TBPE FIRM #F-4883 P.E. NO. DATE

HL-93 LOADING

NO.	DATE	REVISION	APPROVED

FLATIRON/DAGADOS LLC

FIGG
TBPE, FIRM # F-4883

Texas Department of Transportation
2017

US 181 HARBOR BRIDGE
BRIDGE LAYOUT

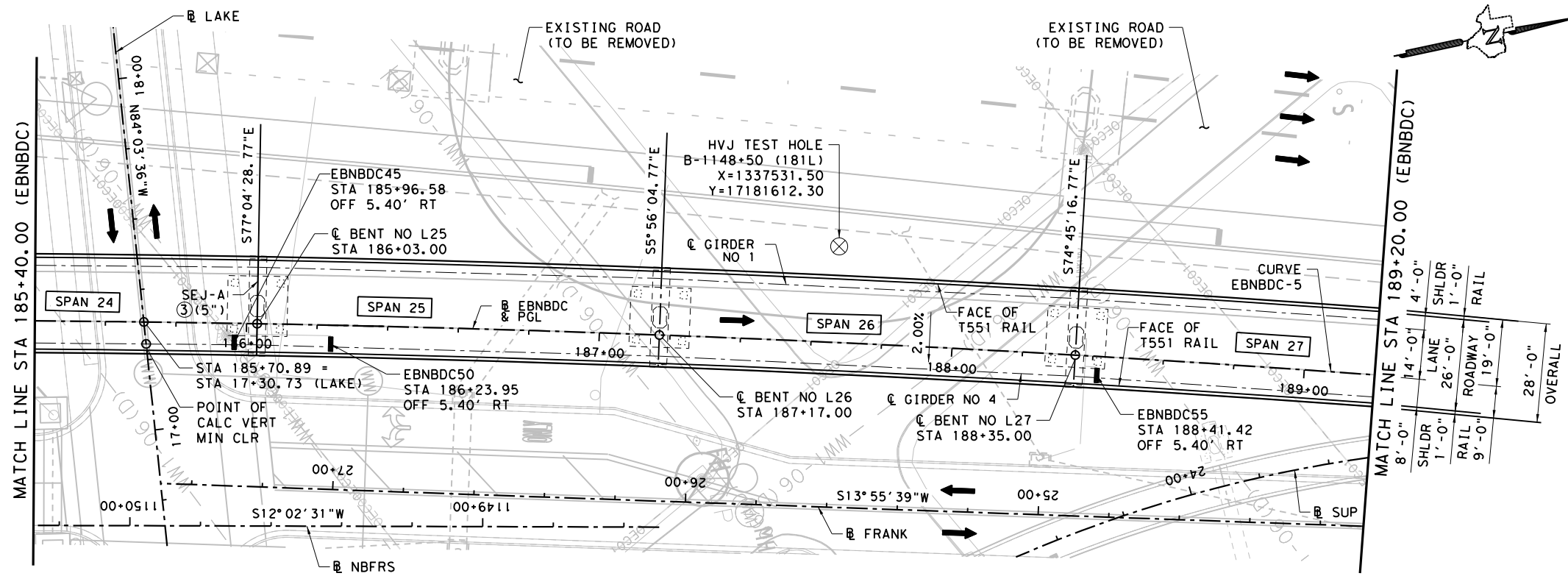
DIRECT CONNECTOR
IH 37 SB TO US 181 NB
BRIDGE 16, CONN "L"

SCALE: 1"=40'-0" SHEET 8 OF 11

DESIGN	FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.	HIGHWAY NO.
SNO	X	(See Title Sheet)	US 181
GRAPHICS	STATE	DISTRICT	COUNTY
JLS	TEXAS	CRP	NUECES
CHECK	CONTROL	SECTION	JOB
RLS	0101	06	095
CF			

RB16
008

FILE: c:\pwworking\stontec\dms76190\16HBRBL09.dgn
DATE: 8/16/2017 TIME: 7:21:32 PM USER: rshinn



CURVE EBNBDC-5
P.I. STATION = 187+94.64
DELTA = 09°30'25.81" (RT)
DEGREE = 1°00'00.00"
TANGENT = 476.45'
LENGTH = 950.72'
RADIUS = 5,729.58'
P.C. STATION = 183+18.19
P.T. STATION = 192+68.91

DESIGN DATA
NBI NO XX-XXX-X-XXXX-XX-XXX
FUNC CLASS: DIRECT CONNECTOR
DESIGN SPEED: 45 MPH
ADT: BRIDGE DC-L
(2023) = 7,960
(2035) = 9,380

PLAN

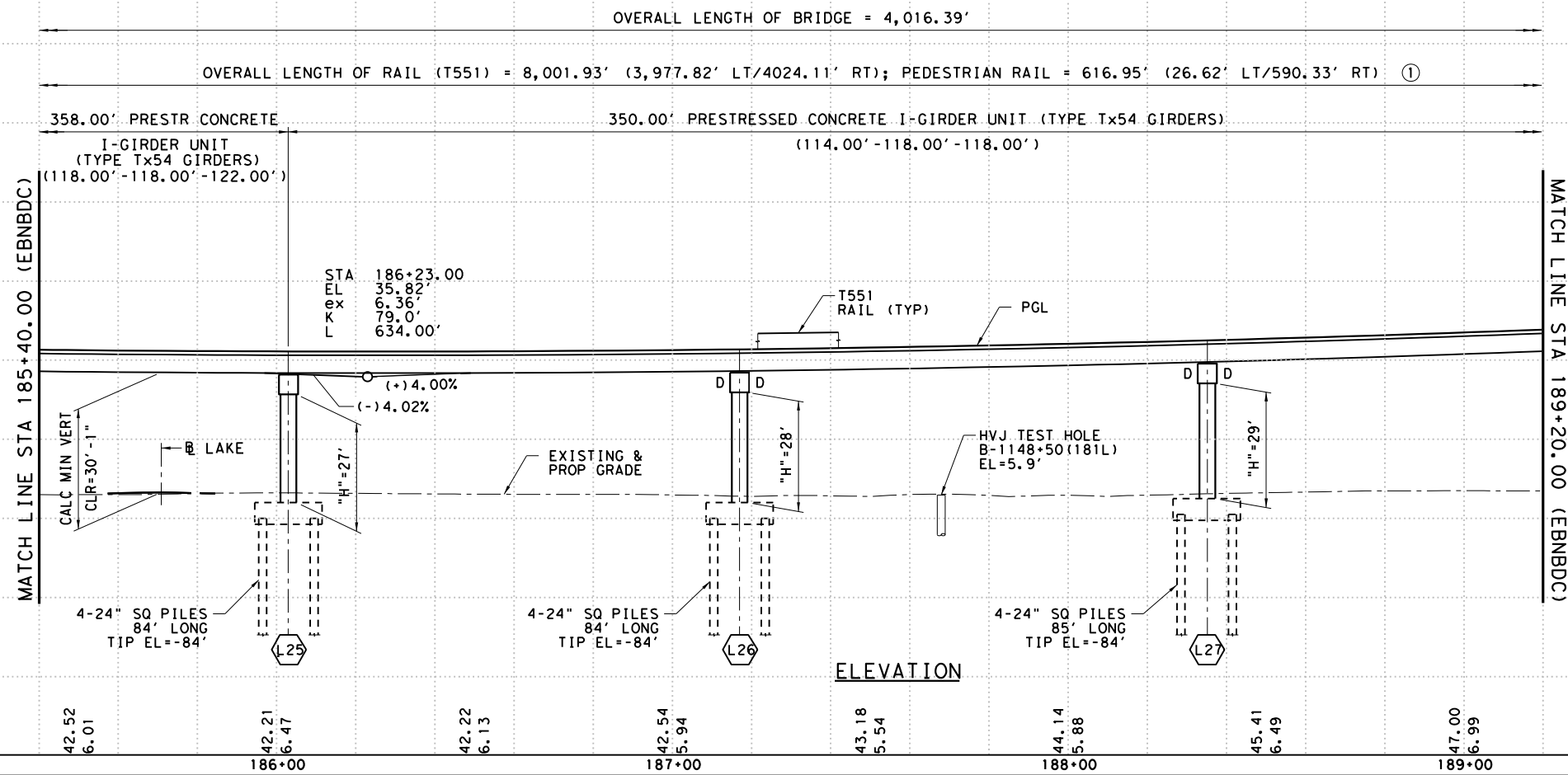
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ALIGNMENT UNLESS
NOTED OTHERWISE

PSI BORE HOLE
HVJ BORE HOLE

LEGEND

PROPOSED TRAFFIC FLOW
EXISTING TRAFFIC FLOW

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ELEVATION

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TBPE FIRM #F-4883 P.E. NO. DATE

HL-93 LOADING

NO. DATE REVISION APPROVED

FLATIRON/DAGADOS LLC

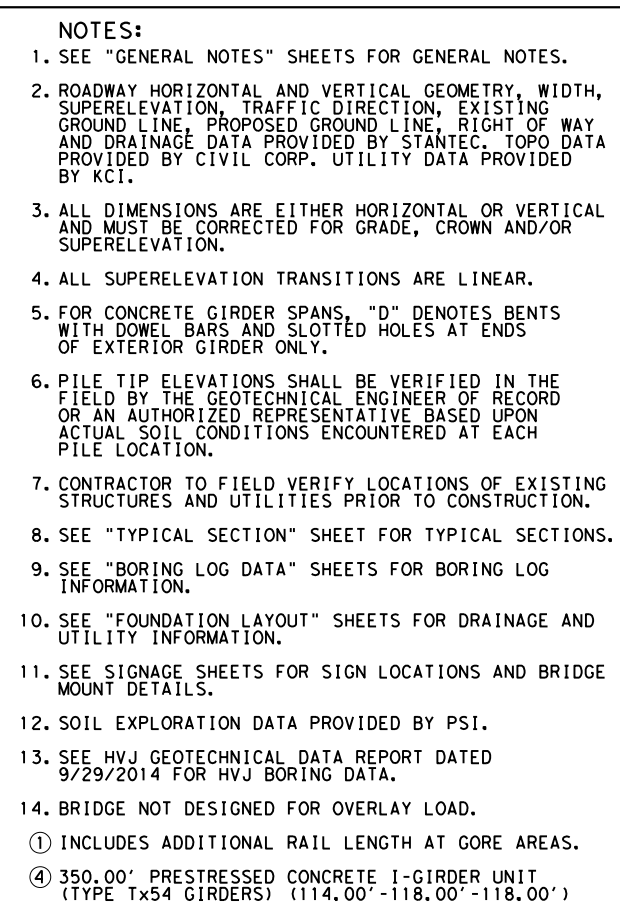
FIGG
TBPE, FIRM # F-4883

Texas Department of Transportation
2017

US 181 HARBOR BRIDGE
BRIDGE LAYOUT

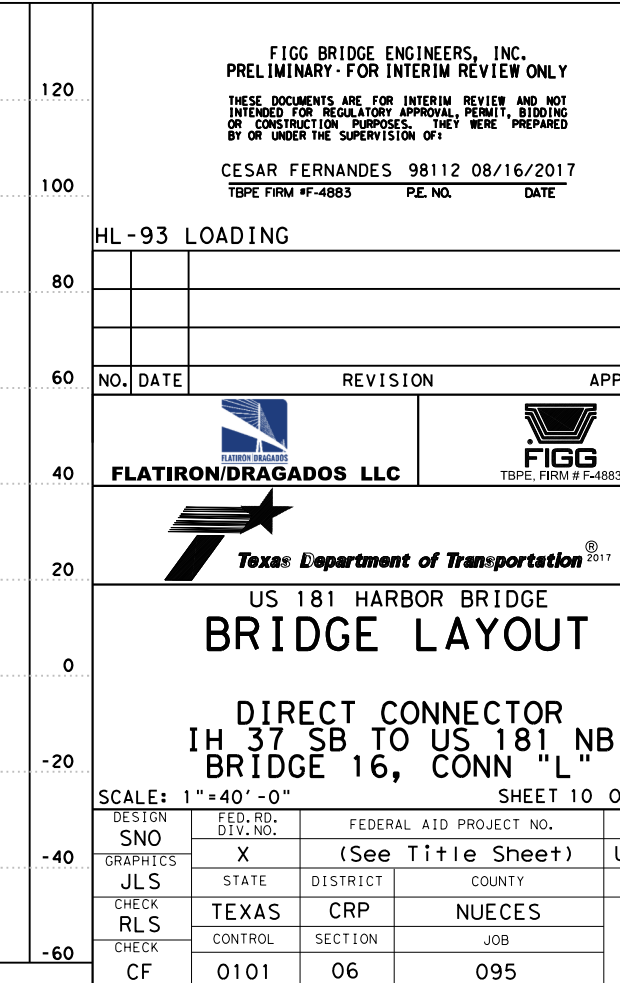
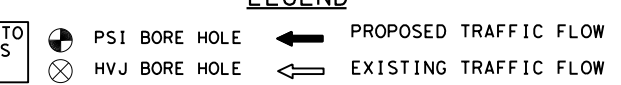
DIRECT CONNECTOR
IH 37 SB TO US 181 NB
BRIDGE 16, CONN "L"

SCALE: 1"=40'-0"		SHEET 9 OF 11		
DESIGN	FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.		HIGHWAY NO.
SNO	X	(See Title Sheet)		US 181
GRAPHICS	JLS	STATE	DISTRICT	COUNTY
CHECK	RLS	TEXAS	CRP	NUECES
CHECK	CF	CONTROL	SECTION	JOB
		0101	06	095

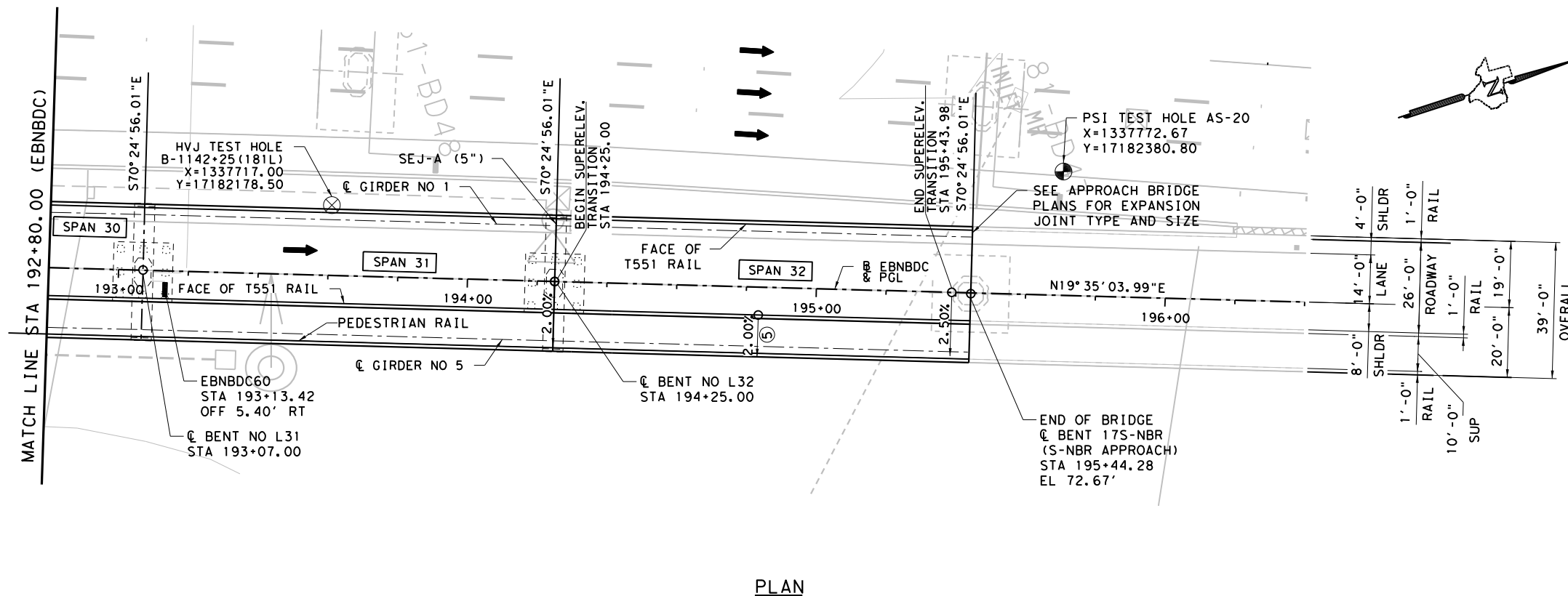


DESIGN DATA
NBI NO XX-XXX-X-XXXX-XX-XXX
FUNC CLASS: DIRECT CONNECTOR
DESIGN SPEED: 45 MPH
ADT: BRIDGE DC-L
(2023) = 7,960
(2035) = 9,380

ALL BENTS RADIAL
ALIGNMENT UNLESS
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FILE: c:\pww\online\stontec\dms76190\16HBRBL11.dgn
DATE: 8/16/2017 TIME: 7:21:50 PM USER: rshinn



DESIGN DATA
NBI NO XX-XXX-X-XXXX-XX-XXX
FUNC CLASS: DIRECT CONNECTOR
DESIGN SPEED: 45 MPH
ADT: BRIDGE DC-L
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PLAN

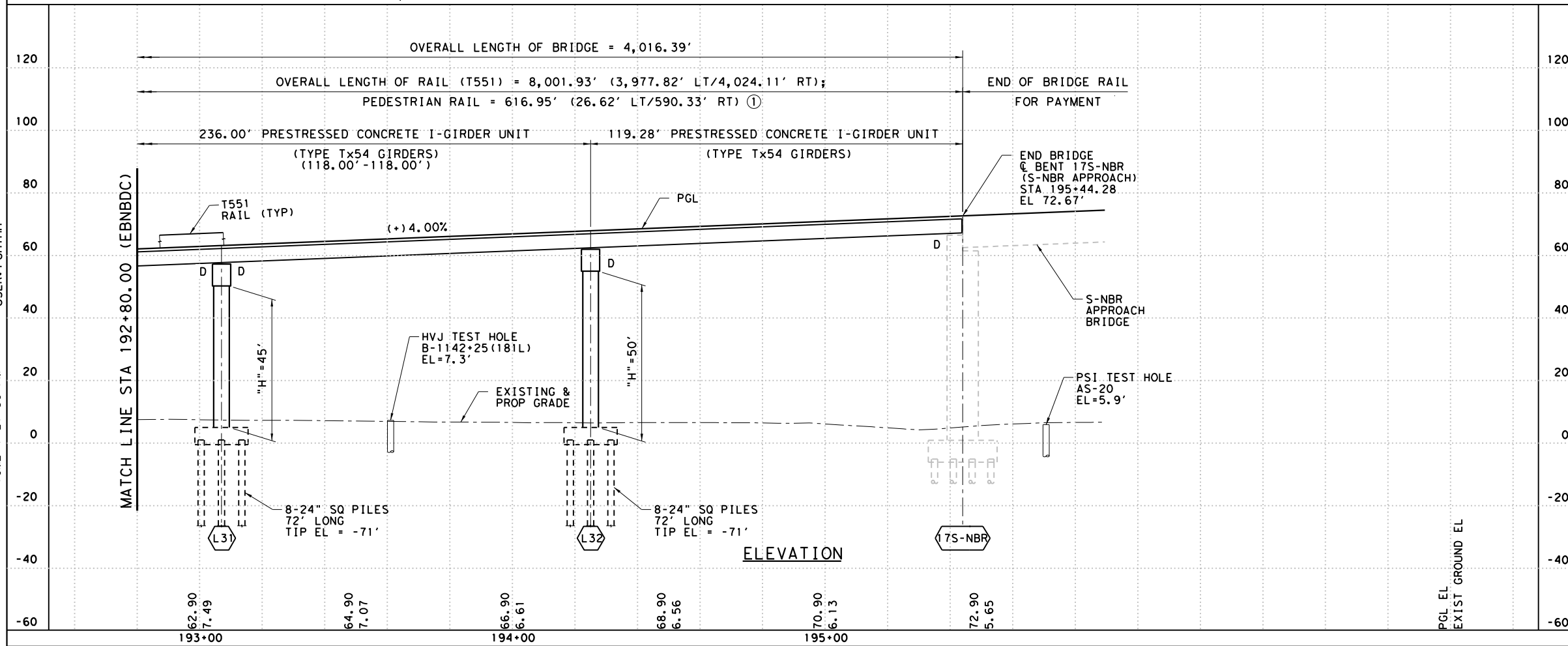
ALL BENTS PERPENDICULAR
TO ALIGNMENT UNLESS
NOTED OTHERWISE

PSI BORE HOLE
HVJ BORE HOLE

LEGEND

PROPOSED TRAFFIC FLOW
EXISTING TRAFFIC FLOW

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⑤ SUP CROSS SLOPE IS A CONSTANT 2.00% CROSS SLOPE WITH THE CROSS SLOPE BREAK OCCURRING AT THE FACE OF T551 RAIL.



ELEVATION

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CESAR FERNANDES 98112 08/16/2017
TBPE FIRM #F-4883 P.E. NO. DATE

HL-93 LOADING			
NO.	DATE	REVISION	APPROVED

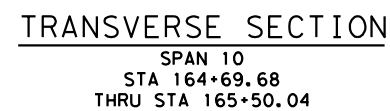
FLATIRON/DAGADOS LLC
FIGG
TBPE, FIRM # F-4883

Texas Department of Transportation
2017

US 181 HARBOR BRIDGE
BRIDGE LAYOUT
DIRECT CONNECTOR
IH 37 SB TO US 181 NB
BRIDGE 16, CONN "L"

SCALE: 1"=40'-0"				SHEET 11 OF 11	
DESIGN	FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.		HIGHWAY NO.	
SNO	X	(See Title Sheet)		US 181	
GRAPHICS	JLS	STATE	DISTRICT	COUNTY	SHEET NO.
CHECK	RLS	TEXAS	CRP	NUECES	RB16
CHECK	CF	CONTROL	SECTION	JOB	011
		0101	06	095	




PRELIMINARY NOT FOR CONSTRUCTION, AUGUST 2017



NOTES:

1. SEE "GENERAL NOTES" SHEETS FOR GENERAL NOTES.
- *2. ALL DIMENSIONS SHOWN ARE MEASURED PERPENDICULAR TO ℄ EBNBDC, EXCEPT AS NOTED BY "*" WHICH ARE MEASURED PERPENDICULAR TO ℄ EBSBDC.
3. SEE T551 STANDARD FOR RAIL DETAILS.

HL-93 LOADING

NO.		DATE		REVISION		APPROVED	
 FLATIRON/DragADOS LLC				 FIGG TBPE, FIRM # F-4883			
 Texas Department of Transportation							
US 181 HARBOR BRIDGE TYPICAL SECTIONS DIRECT CONNECTOR IH 37 SB TO US 181 NB BRIDGE 16, CONN "L"							
SCALE: 1/16" = 1' - 0"				SHEET 1 OF 2			
DESIGN	FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.			HIGHWAY NO.		
SNO	X	(See Title Sheet)			US 181		
GRAPHICS	STATE	DISTRICT	COUNTY		SHEET NO.		
GAH	TEXAS	CRP	NUECES		RB16		
CHECK	CONTROL	SECTION	JOB		012		
RLS	CF	0101	06	095			

