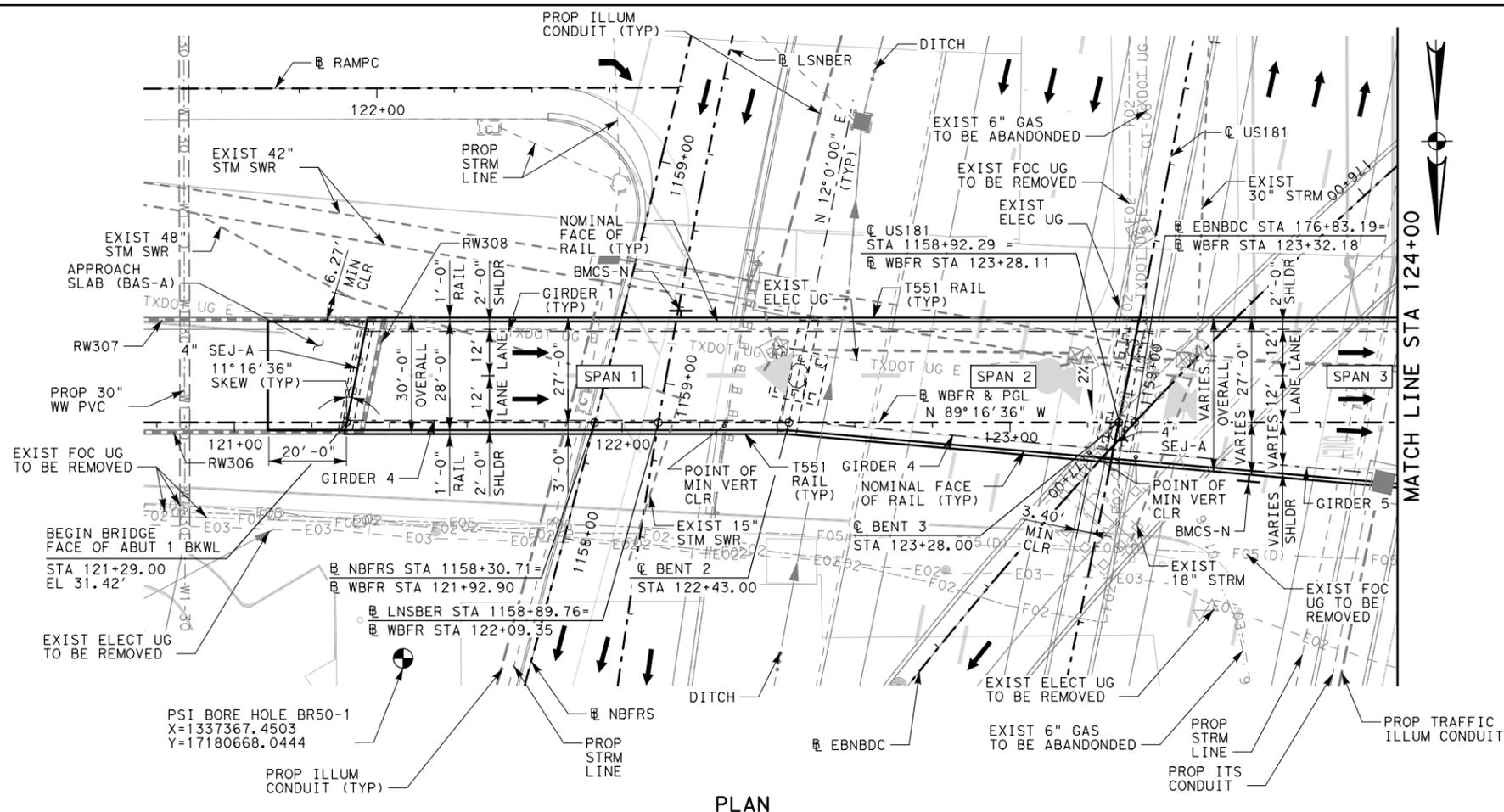


NOTES:

- FOR GENERAL NOTES, SEE "GENERAL NOTES" SHEETS.
- TOPO DATA PROVIDED BY CIVIL CORP. UTILITY DATA PROVIDED BY KCI.
- ALL DIMENSIONS ARE EITHER HORIZONTAL OR VERTICAL AND MUST BE CORRECTED FOR GRADE, CROWN AND/OR SUPERELEVATION.
- ALL SUPERELEVATION TRANSITIONS ARE LINEAR.
- VERTICAL CLEARANCES ARE CALCULATED FOR THE MOST CRITICAL CONDITION BASED UPON THE ULTIMATE AND INTERIM SECTIONS.
- "D" DENOTES BENTS WITH DOWEL BARS AND SLOTTED HOLES AT ENDS OF EXTERIOR GIRDER ONLY.
- PILE TIP ELEVATIONS SHALL BE VERIFIED IN THE FIELD BY THE GEOTECHNICAL ENGINEER OF RECORD OR AN AUTHORIZED REPRESENTATIVE BASED UPON ACTUAL SOIL CONDITIONS ENCOUNTERED AT EACH PILE LOCATION.
- CONTRACTOR TO FIELD VERIFY LOCATIONS OF EXISTING STRUCTURES AND UTILITIES PRIOR TO CONSTRUCTION.
- SEE "TYPICAL SECTION" SHEETS FOR TYPICAL SECTIONS.
- SEE "BORING LOG DATA" SHEETS FOR BORING LOG INFORMATION.
- SEE "FOUNDATION LAYOUT" SHEETS FOR DRAINAGE AND UTILITY INFORMATION.
- SEE SIGNAGE SHEETS FOR SIGN LOCATIONS AND BRIDGE MOUNT DETAILS.
- SOIL EXPLORATION DATA PROVIDED BY PSI.
- FOR HVJ BORING DATA SEE "HVJ GEOTECHNICAL DATA REPORT" DATED 9/29/2014.

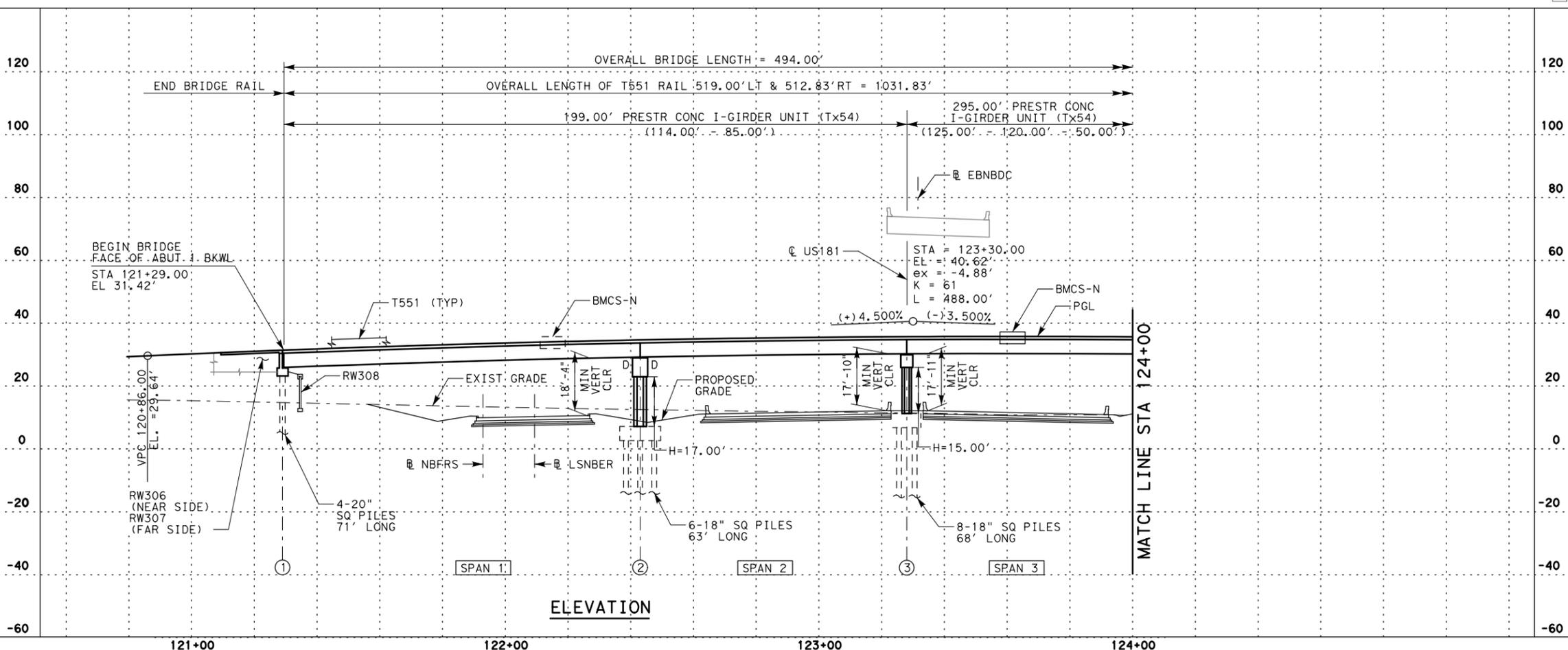


DESIGN DATA

NBI NO XX-XXX-XXXXXX-XXX
 FUNC CLASS:
 DESIGN SPEED:
 ADT:
 (2015) =
 (2035) =

LEGEND

- ← PROP TRAFFIC FLOW
- ⊠ PROP DRAINAGE INLET
- ⊗ PROP TRAFFIC ILLUM JUNCTION BOX
- ⊙ PROP DRAINAGE JUNCTION BOX
- PROP TRAFFIC ILLUM GB
- BORE HOLE



STANTEC CONSULTING SERVICES, INC.
 PRELIMINARY - FOR INTERIM REVIEW ONLY

THESE DOCUMENTS ARE FOR INTERIM REVIEW AND NOT INTENDED FOR REGULATORY APPROVAL, PERMIT, BIDDING OR CONSTRUCTION PURPOSES. THEY WERE PREPARED BY OR UNDER THE SUPERVISION OF:

NICK N NIKPOUR 122413 08/04/2017
 TBPE FIRM #F-6324 P.E. NO. DATE

HL-93 LOADING

NO.	DATE	REVISION	APPROVED

FLATIRON DRAGADOS LLC **Stantec**
 Engineered by Stantec Consulting Services Inc.
 Texas Registered Engineering Firm F-6324

Texas Department of Transportation

**US 181 HARBOR BRIDGE
 BRIDGE LAYOUT**

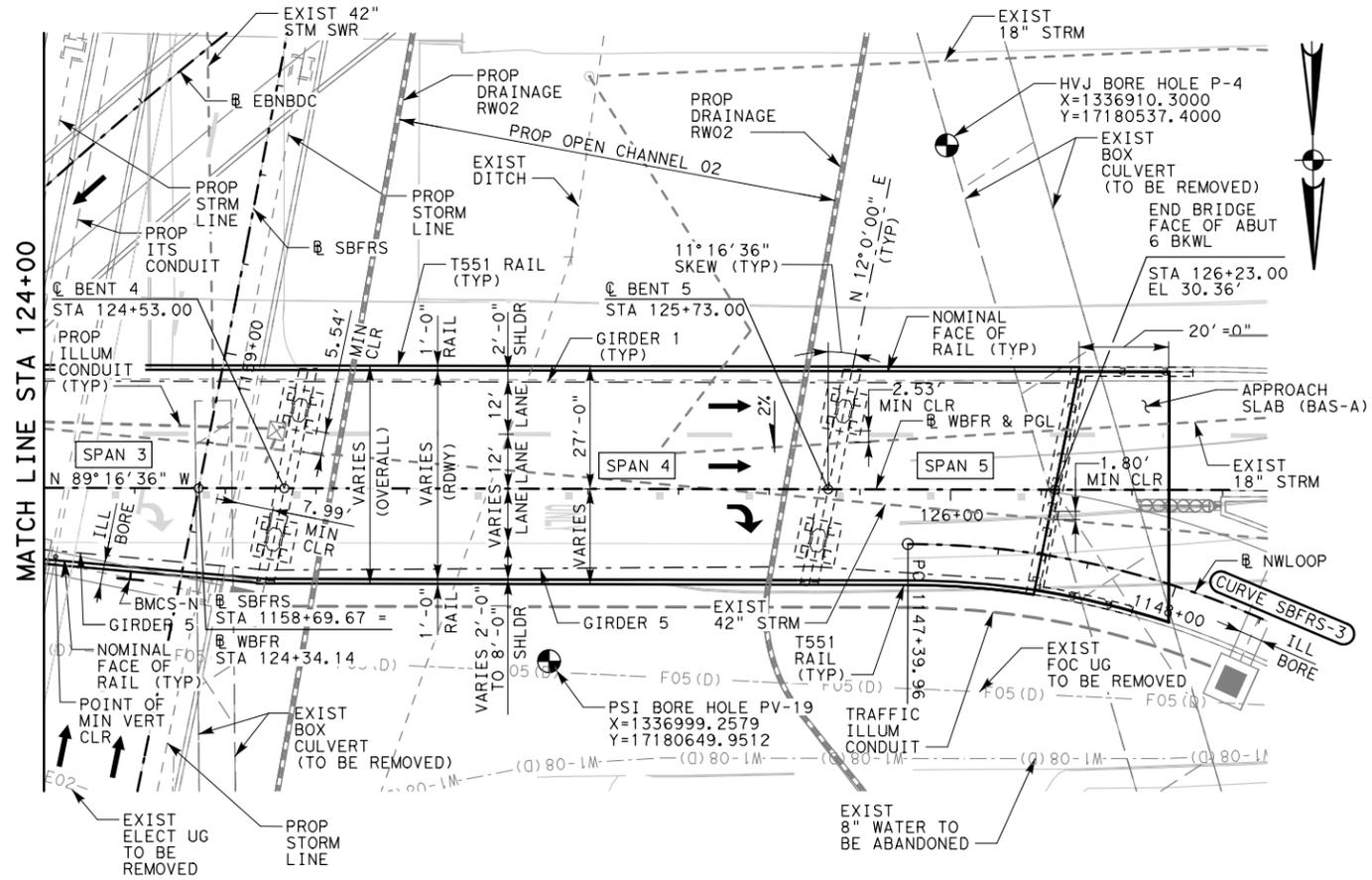
**IH 37 NBFR OVERPASS AT
 US 181 ML, NBFR, & SBFR
 BRIDGE 4**

SCALE: 1"=40'-0" SHEET 1 OF 2

DESIGN	FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.	HIGHWAY NO.
FF	6	HPX597 (1)	IH 37
GRAPHICS	STATE	DISTRICT	COUNTY
JG	TEXAS	CRP	NUECES
CHECK	CONTROL	SECTION	JOB
AKH	0101	06	095
SS			

RB04
001

FILE: c:\pwworking\stntec\dms33120\04HBR*BL01.dgn
 USER: \$USER\$
 DATE: 8/4/2017 TIME: 3:15:33 PM



PLAN

HORIZONTAL CURVE DATA

CURVE SBFRS-3	
P. I. STATION	1152+91.26
DELTA	141° 02' 28" (RT)
DEGREE	29° 22' 57"
TANGENT	551.2921
LENGTH	480.0183
RADIUS	195.0000
P. C. STATION	1147+39.96
P. T. STATION	1152+19.98

NOTES:

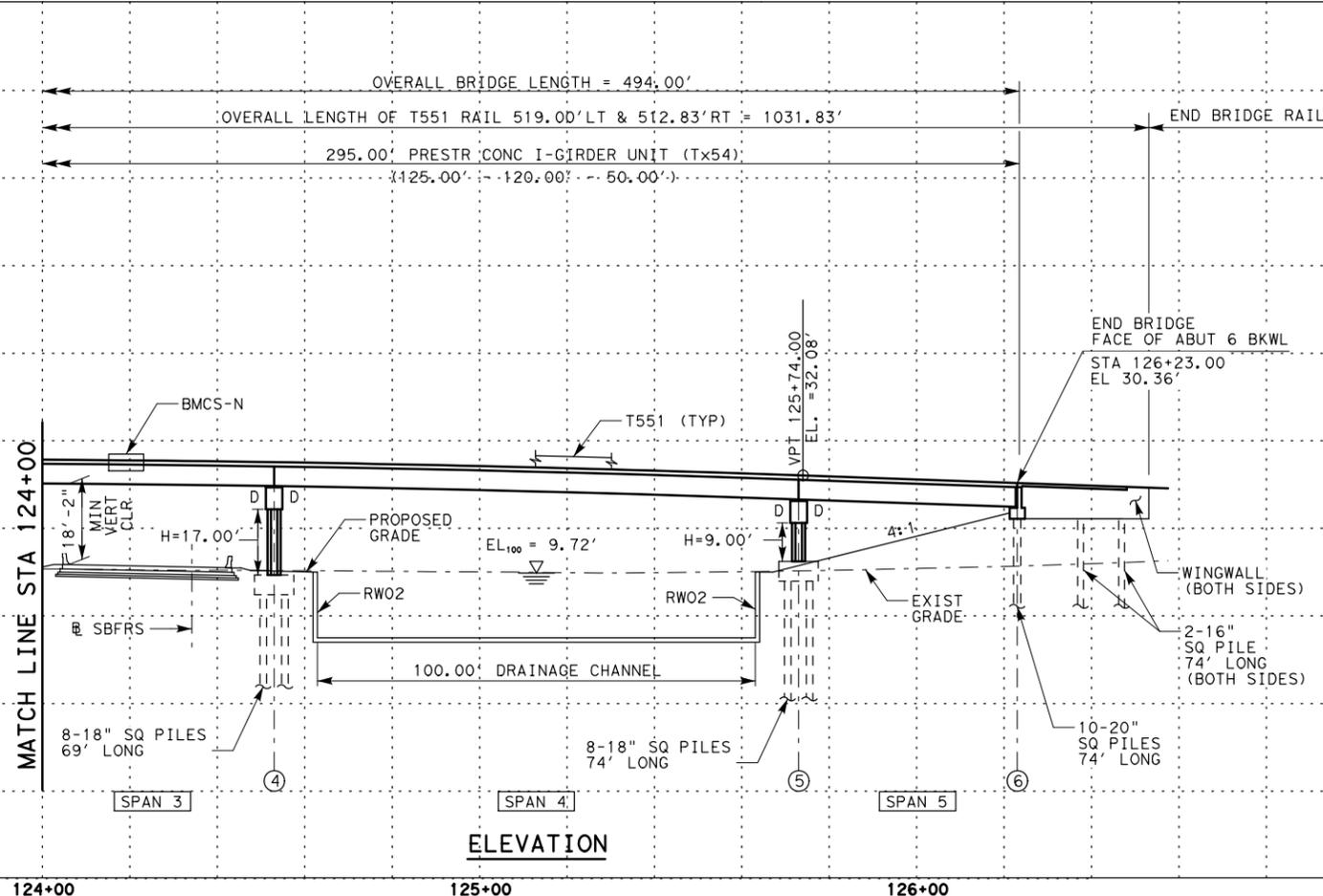
- SEE SHEET 1 OF 2 FOR NOTES AND LEGEND.

DESIGN DATA

NBI NO XX-XXX-XXXXXX-XXX
 FUNC CLASS:
 DESIGN SPEED:
 ADT:
 (2015) =
 (2035) =

HYDRAULIC DATA

$Q_{50} = 1825$ CFS	$Q_{100} = 2127$ CFS
$V_{50} = 2.10$ FPS	$V_{100} = 2.30$ FPS
$EL_{50} = 8.87'$	$EL_{100} = 9.72'$



ELEVATION

STANTEC CONSULTING SERVICES, INC.
 PRELIMINARY - FOR INTERIM REVIEW ONLY

THESE DOCUMENTS ARE FOR INTERIM REVIEW AND NOT INTENDED FOR REGULATORY APPROVAL, PERMIT, BIDDING OR CONSTRUCTION PURPOSES. THEY WERE PREPARED BY OR UNDER THE SUPERVISION OF:

NICK N NIKPOUR 122413 08/04/2017
 TBPE FIRM #F-6324 P.E. NO. DATE

HL-93 LOADING

NO.	DATE	REVISION	APPROVED

FLATIRON DRAGADOS LLC **Stantec**
 Engineered by Stantec Consulting Services Inc.
 Texas Registered Engineering Firm F-6324

Texas Department of Transportation

**US 181 HARBOR BRIDGE
 BRIDGE LAYOUT**

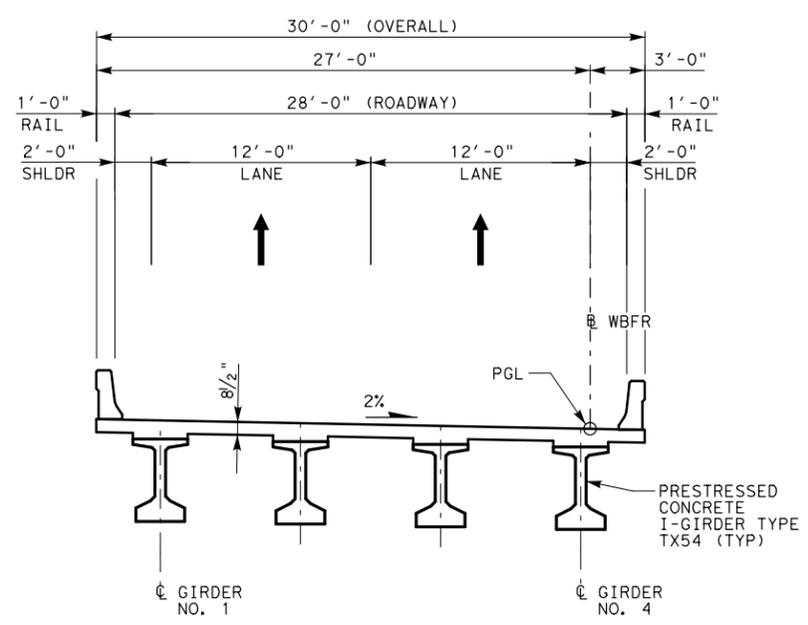
**IH 37 NBFR OVERPASS AT
 US 181 ML, NBFR, & SBFR
 BRIDGE 4**

SCALE: 1" = 40' - 0" SHEET 2 OF 2

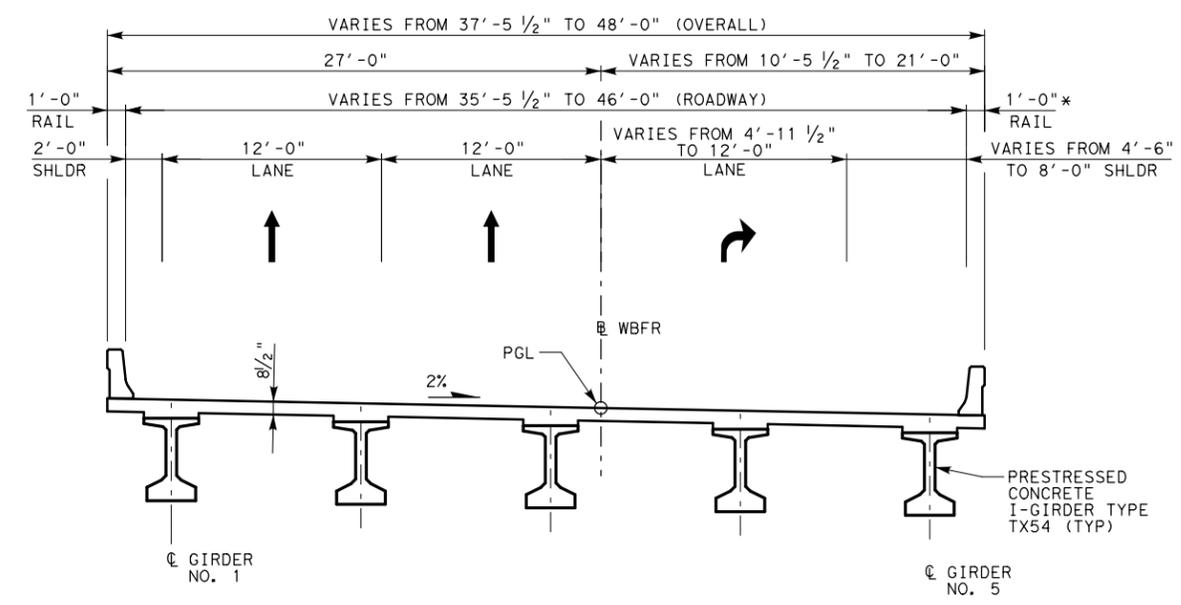
DESIGN	FF	FED. RD. DIV. NO.	6	FEDERAL AID PROJECT NO.	HPX597 (1)	HIGHWAY NO.	IH 37
GRAPHICS	JG	STATE	TEXAS	DISTRICT	CRP	COUNTY	NUECES
CHECK	AKH	CONTROL	SECTION	JOB	095		RB04
CHECK	SS						002

NOTES:

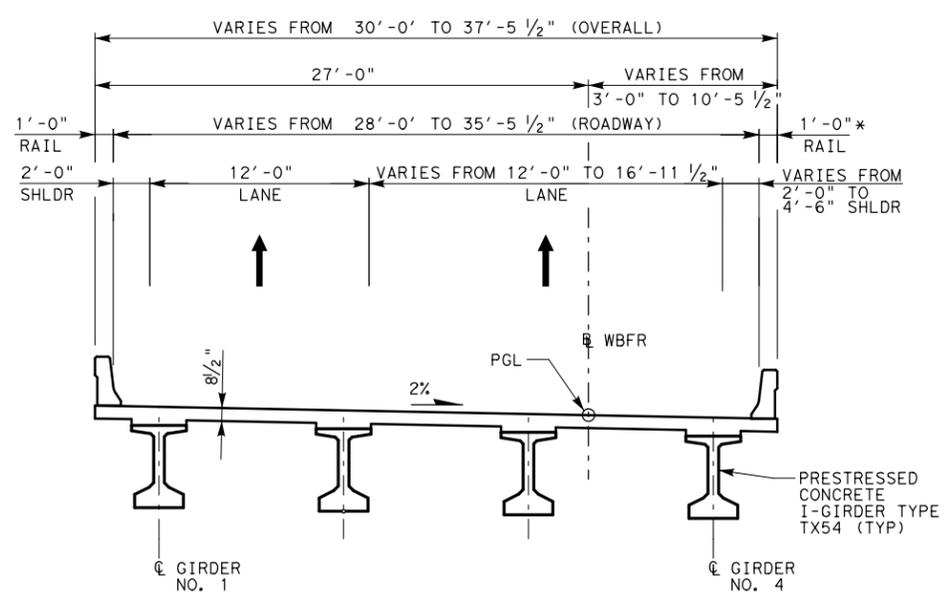
- FOR GENERAL NOTES, SEE "GENERAL NOTES" SHEETS.
 - SEE TYPE T551 STANDARD FOR BRIDGE RAIL DETAIL.
- * NORMAL TO EDGE OF SLAB.



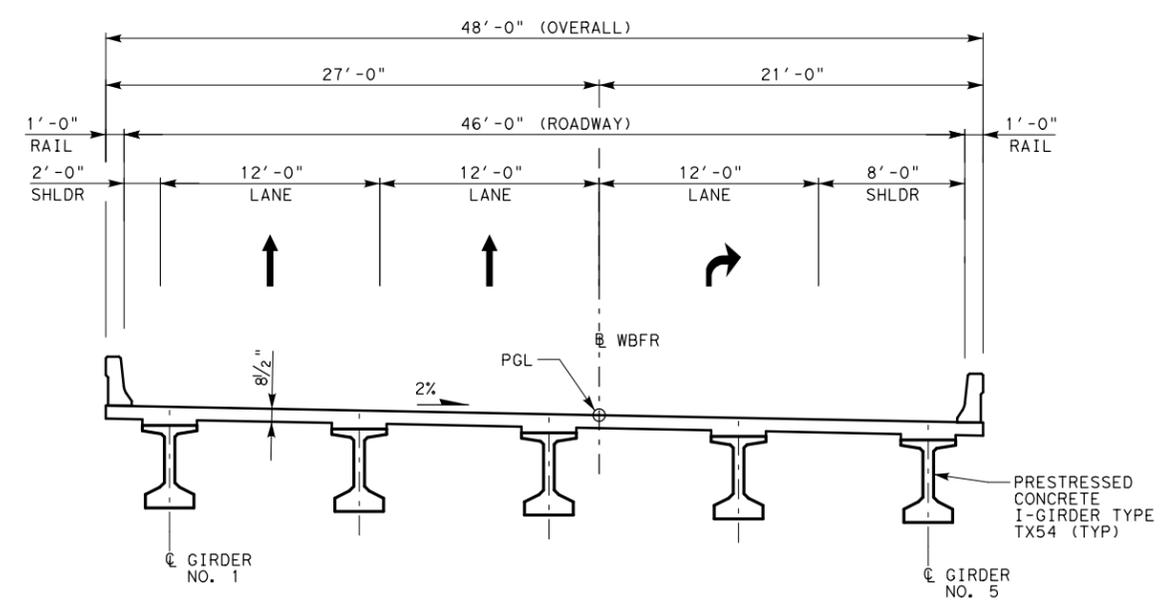
TYPICAL SECTION
(SPAN 1)



TYPICAL SECTION
(SPAN 3)



TYPICAL SECTION
(SPAN 2)



TYPICAL SECTION
(SPAN 4)

LEGEND

← PROPOSED TRAFFIC FLOW

HL-93 LOADING

NO.	DATE	REVISION	APPROVED

FLATIRON/DRAGADOS LLC
Engineered by Stantec Consulting Services Inc.
Texas Registered Engineering Firm F-6324



US 181 HARBOR BRIDGE
TYPICAL SECTION
IH 37 NBFR OVERPASS AT
US 181 ML, NBFR, & SBFR
BRIDGE 4

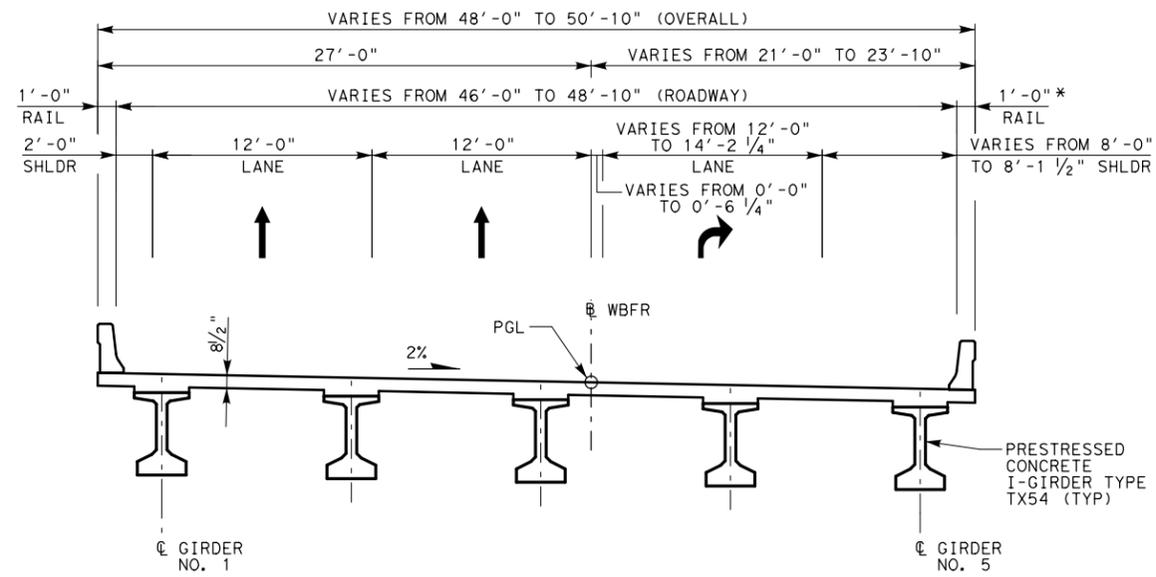
SCALE: 1"=10' SHEET 1 OF 2

DESIGN	FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.	HIGHWAY NO.
FF	6	HPX597 (1)	IH 37
GRAPHICS	JG	STATE DISTRICT COUNTY	SHEET NO.
CHECK	AKH	TEXAS CRP NUECES	RB04
CHECK	SS	CONTROL SECTION JOB	003
	0101	06 095	

STANTEC CONSULTING SERVICES, INC.
PRELIMINARY - FOR INTERIM REVIEW ONLY
THESE DOCUMENTS ARE FOR INTERIM REVIEW AND NOT INTENDED FOR REGULATORY APPROVAL, PERMIT, BIDDING OR CONSTRUCTION PURPOSES. THEY WERE PREPARED BY OR UNDER THE SUPERVISION OF:
NICK N NIKPOUR 122413 08/04/2017
TBPE FIRM #F-6324 P.E. NO. DATE

NOTES:

- 1. SEE SHEET 1 OF 2 FOR NOTES.
- * NORMAL TO EDGE OF SLAB.



TYPICAL SECTION
(SPAN 5)

LEGEND

← PROPOSED TRAFFIC FLOW

HL-93 LOADING

NO.	DATE	REVISION	APPROVED
-----	------	----------	----------

 FLATIRON/Dragados LLC	 Stantec <small>Engineered by Stantec Consulting Services Inc. Texas Registered Engineering Firm F-6324</small>
----------------------------------	--

Texas Department of Transportation

US 181 HARBOR BRIDGE
TYPICAL SECTION
IH 37 NBFR OVERPASS AT
US 181 ML, NBFR, & SBFR
BRIDGE 4

SCALE: 1"=10' SHEET 2 OF 2

DESIGN	FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.		HIGHWAY NO.
FF	6	HPX597 (1)		IH 37
GRAPHICS	STATE	DISTRICT	COUNTY	SHEET NO.
JG	TEXAS	CRP	NUECES	RB04
CHECK	CONTROL	SECTION	JOB	004
AKH	SS	0101	06 095	

STANTEC CONSULTING SERVICES, INC.
PRELIMINARY - FOR INTERIM REVIEW ONLY
THESE DOCUMENTS ARE FOR INTERIM REVIEW AND NOT INTENDED FOR REGULATORY APPROVAL, PERMIT, BIDDING OR CONSTRUCTION PURPOSES. THEY WERE PREPARED BY OR UNDER THE SUPERVISION OF:
NICK N NIKPOUR 122413 08/04/2017
TBPE FIRM #F-6324 P.E. NO. DATE