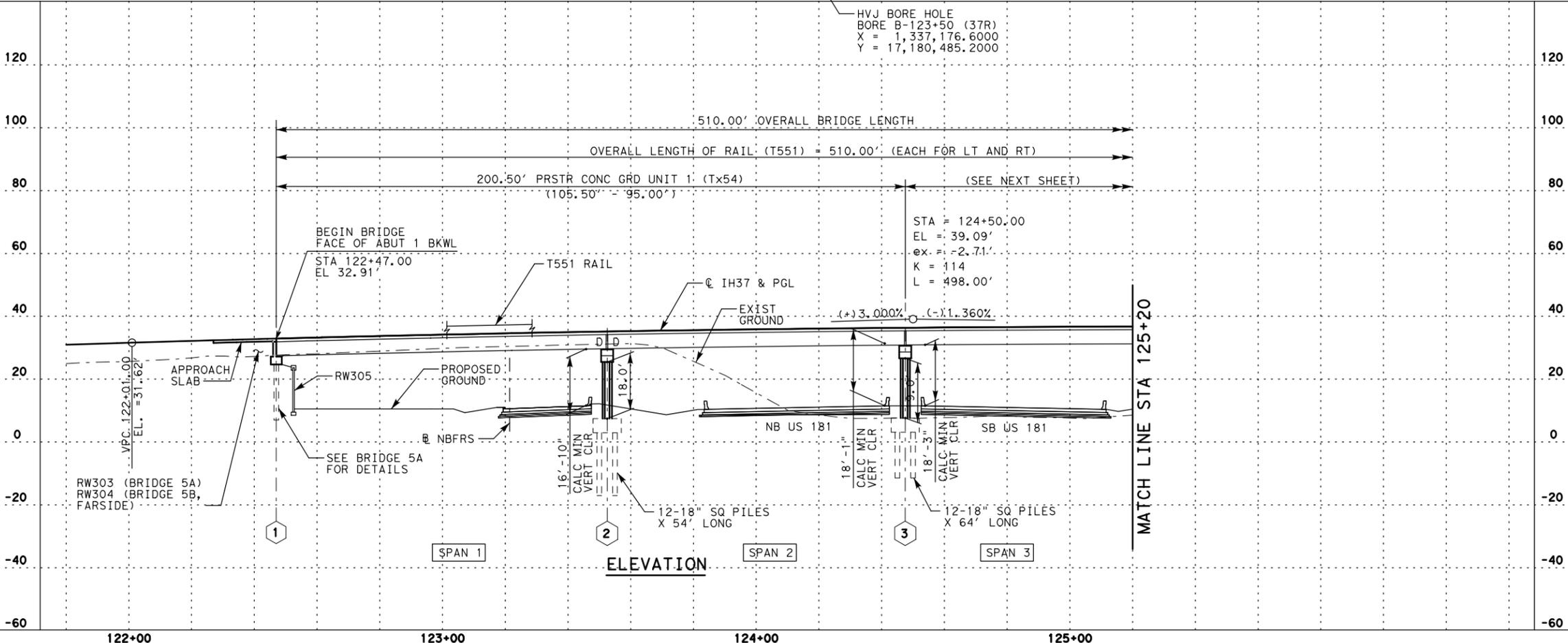


DESIGN DATA

NBI NO XX-XXX-XXXXX-XXX
 FUNC CLASS:
 DESIGN SPEED:
 ADT: BRIDGE 5B
 (2015) =
 (2035) =

- 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" SHEET FOR TYPICAL SECTIONS.
 - SEE "BORING LOG DATA" SHEETS FOR BORING LOG INFORMATION.
 - SEE "FOUNDATION LAYOUT" SHEETS FOR DRAINAGE AND UTILITY INFORMATION.
 - SOIL EXPLORATION DATA PROVIDED BY PSI.
 - FOR HVJ BORING DATA SEE "HVJ GEOTECHNICAL DATA REPORT" DATED 9/29/2014.
 - SEE SIGNAGE SHEETS FOR SIGN LOCATIONS AND BRIDGE MOUNT DETAILS.
 - SEE ROADWAY ILLUMINATION SHEETS FOR UNDERPASS LIGHT FIXTURE DETAILS.
 - REMOVE ALL EXISTING SUPERSTRUCTURE ELEMENTS AND ALL SUBSTRUCTURE ELEMENTS TO A MINIMUM OF TWO FEET BELOW FINAL GRADE ELEVATION.

FILE: c:\pwworking\stntec\dms33122\5BHBR*BL*01.dgn
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 DATE: 8/4/2017 TIME: 6:33:58 PM



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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

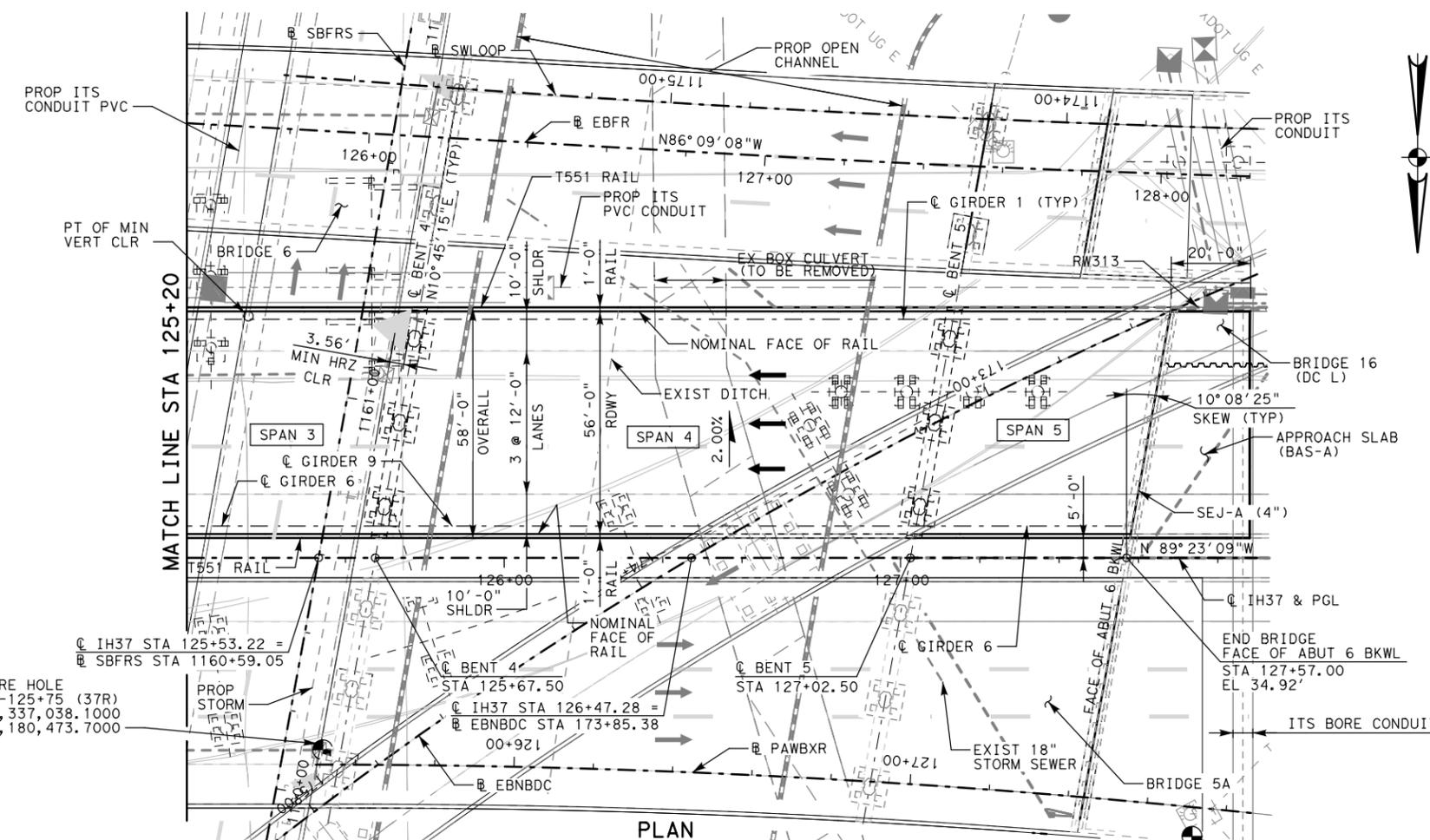
**US 181 HARBOR BRIDGE
 BRIDGE LAYOUT**

**IH 37 SBML OVERPASS AT
 US 181 ML, NBFR, & SBFR
 BRIDGE 5B**

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

DESIGN	FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.	HIGHWAY NO.
SS	6	HPX597 (1)	IH 37
GRAPHICS	JG	STATE DISTRICT COUNTY	SHEET NO.
CHECK	FF	TEXAS CRP NUECES	RB05B
CHECK	FF	CONTROL SECTION JOB	001
		0101 06 095	

NOTES:
1. SEE SHEET 1 OF 2 FOR NOTES.

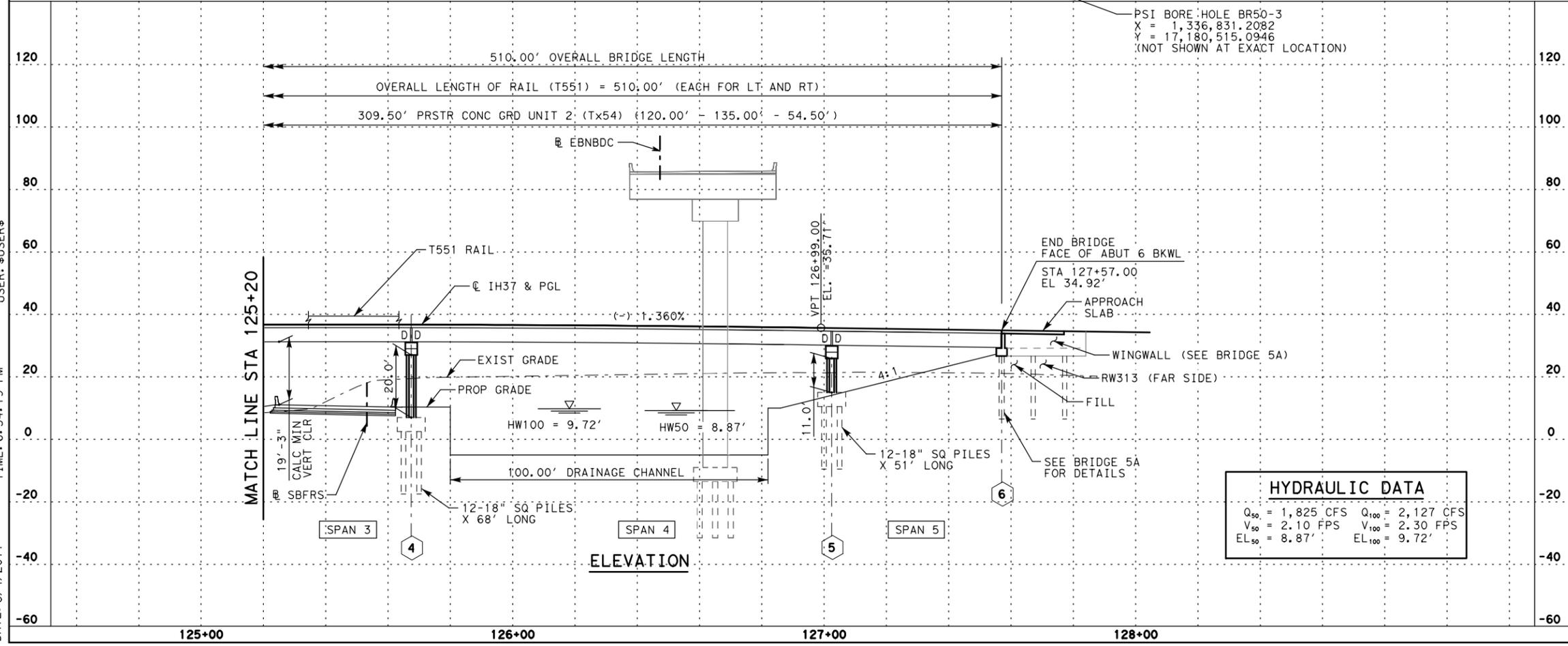


HVJ BORE HOLE
BORE B-125+75 (37R)
X = 1,337,038.1000
Y = 17,180,473.7000

LEGEND

- PROP DRAINAGE INLET
- PROP DRAINAGE INLET W/GRATE
- PROP TRAFFIC ILLUM JUNCTION BOX
- PROP TRAFFIC ILLUM GB
- PROPOSED TRAFFIC FLOW
- BORE HOLE
- EXISTING FOUNDATION
- TRAFFIC ILLUMINATION

FILE: c:\pwworking\stntec\dms33122\5BHR*BL*02.dgn
DATE: 8/4/2017 TIME: 6:34:19 PM USER: \$USER\$



PSI BORE HOLE BR50-3
X = 1,336,831.2082
Y = 17,180,515.0946
(NOT SHOWN AT EXACT LOCATION)

HYDRAULIC DATA

$Q_{50} = 1,825$ CFS	$Q_{100} = 2,127$ CFS
$V_{50} = 2.10$ FPS	$V_{100} = 2.30$ FPS
$EL_{50} = 8.87'$	$EL_{100} = 9.72'$

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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 SBML OVERPASS AT
US 181 ML, NBFR, & SBFR
BRIDGE 5B**

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

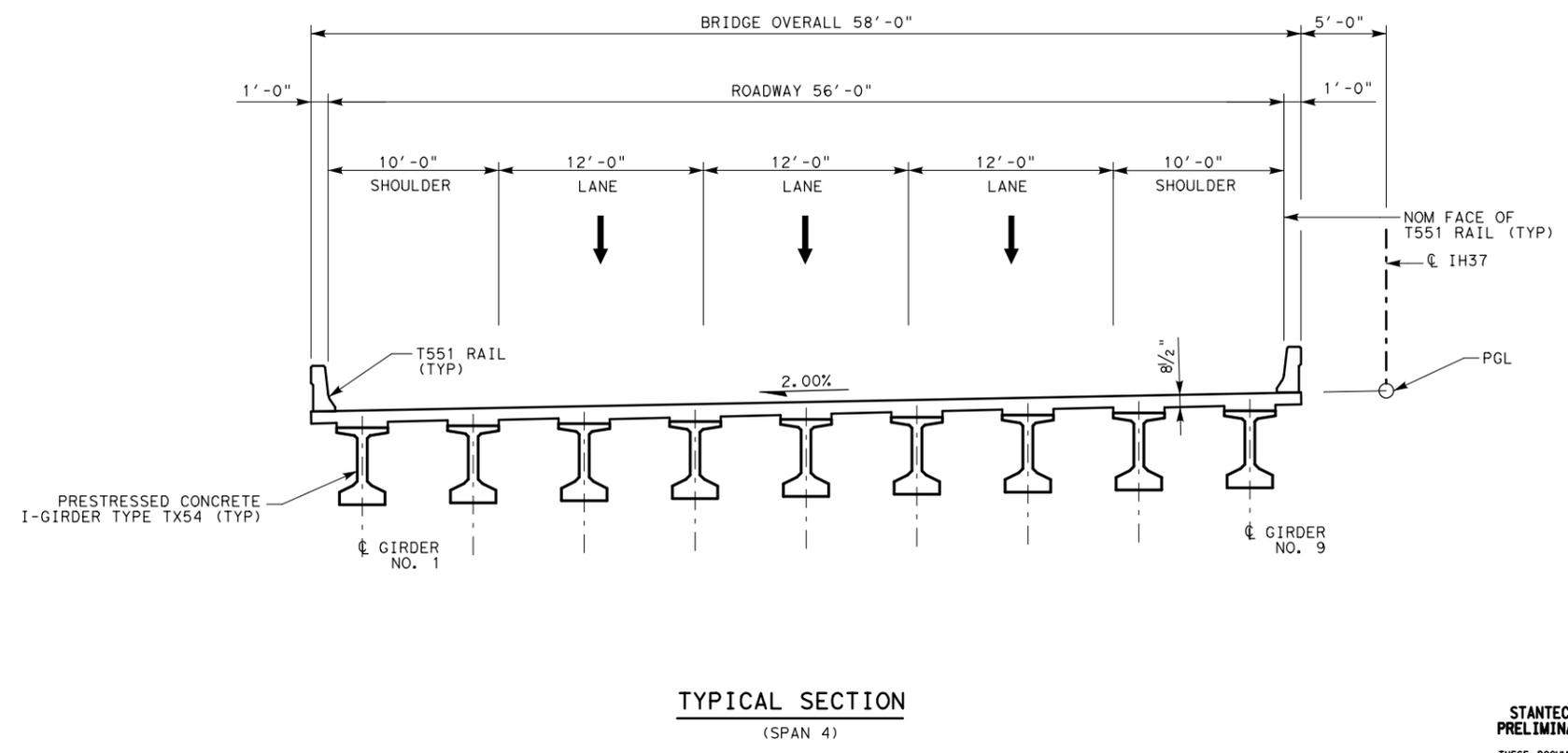
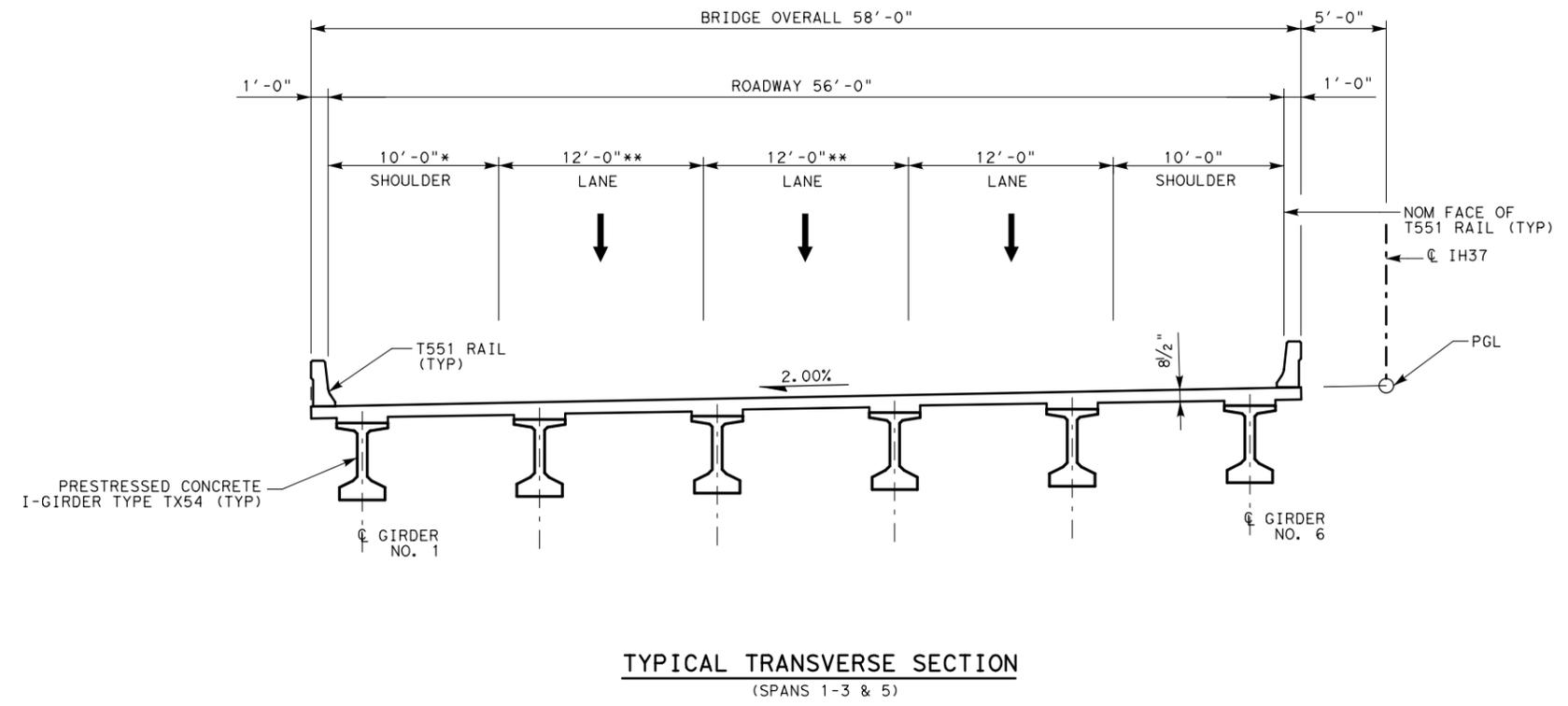
DESIGN SS	FED. RD. DIV. NO. 6	FEDERAL AID PROJECT NO. HPX597 (1)	HIGHWAY NO. IH 37
GRAPHICS JG	STATE TEXAS	DISTRICT CRP	COUNTY NUECES
CHECK FF	CONTROL	SECTION 0101	JOB 095
CHECK FF			

RB05B
002

NOTES:

- FOR GENERAL NOTES, SEE "GENERAL NOTES" SHEETS.
- SEE TYPE T551 STANDARD FOR BRIDGE RAIL DETAIL.

* VARIES FROM 10'-0" AT SPAN 3 TO 14'-10 1/2" AT FACE OF ABUTMENT NO. 1 BACKWALL.
 ** THESE TWO LANES INTERSECT AS ONE VARYING LANE AT SPANS NO 1 AND 2.



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>
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US 181 HARBOR BRIDGE
TYPICAL SECTION
 IH 37 SBML OVERPASS AT
 US 181 ML, NBFR, & SBFR
 BRIDGE 5B

SCALE: 1"=10'-0" SHEET 1 OF 1

DESIGN SS	FED. RD. DIV. NO. 6	FEDERAL AID PROJECT NO. HPX597 (1)		HIGHWAY NO. IH 37
GRAPHICS JG	STATE	DISTRICT	COUNTY	SHEET NO.
CHECK FF	TEXAS	CRP	NUECES	RB05B 003
CHECK FF	CONTROL	SECTION	JOB	
	0101	06	095	

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