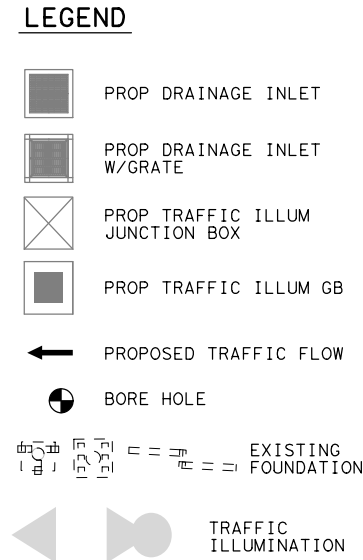
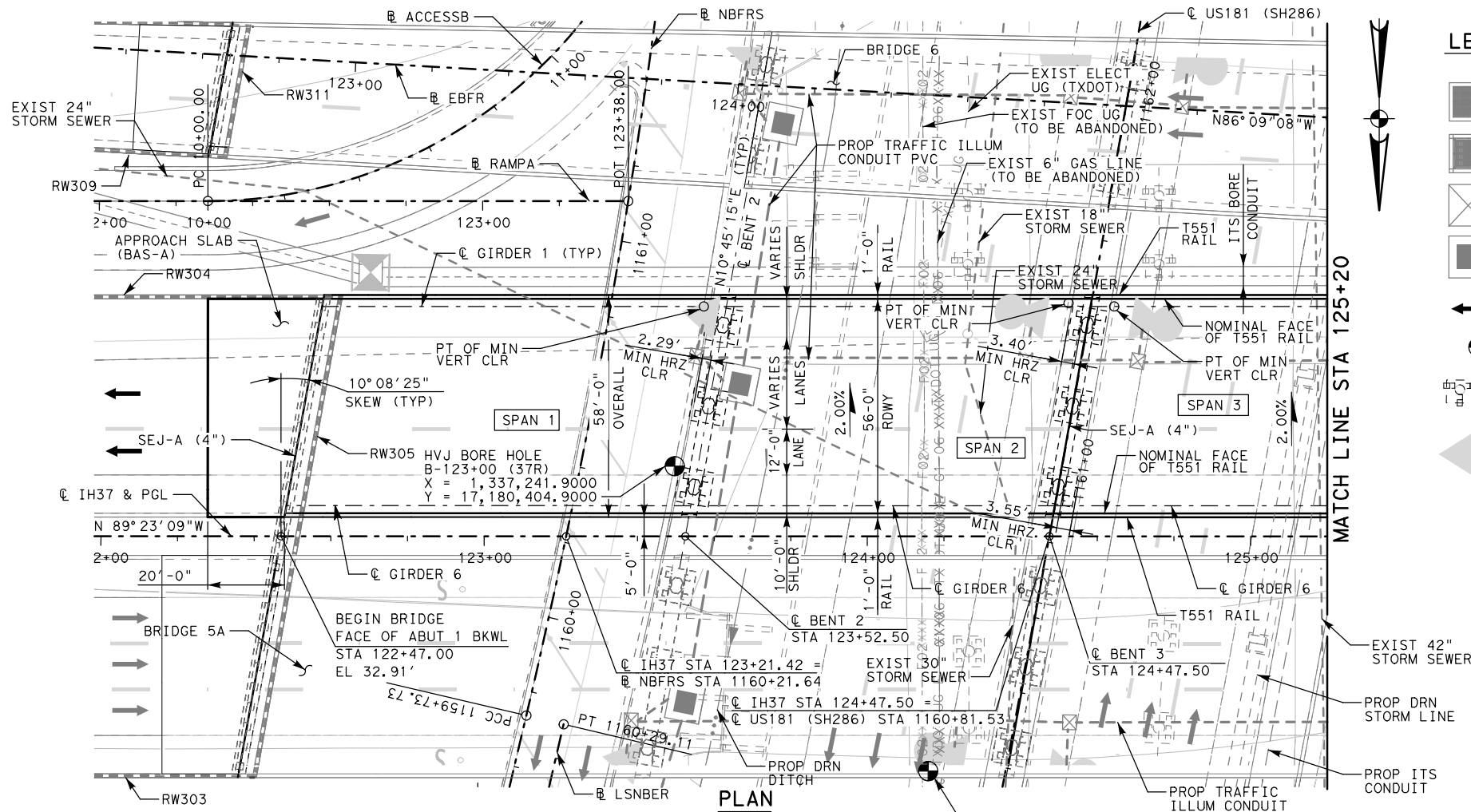


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DATE: 8/4/2017
TIME: 6:33:58 PM
USER: \$USER\$



DESIGN DATA

NBI NO XX-XXX-XXXXXX-XXX

FUNC CLASS:

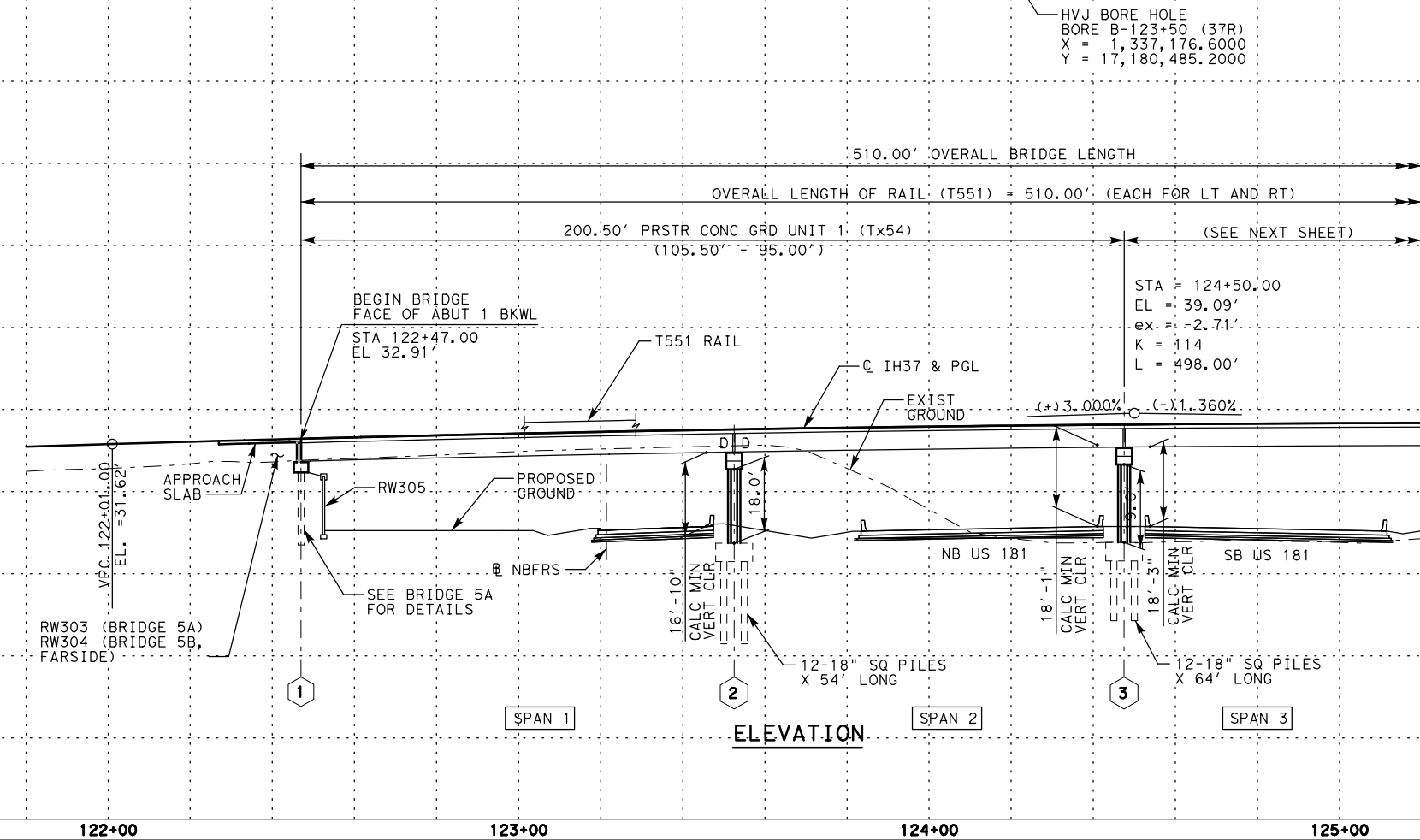
DESIGN SPEED:

ADT: BRIDGE 5B

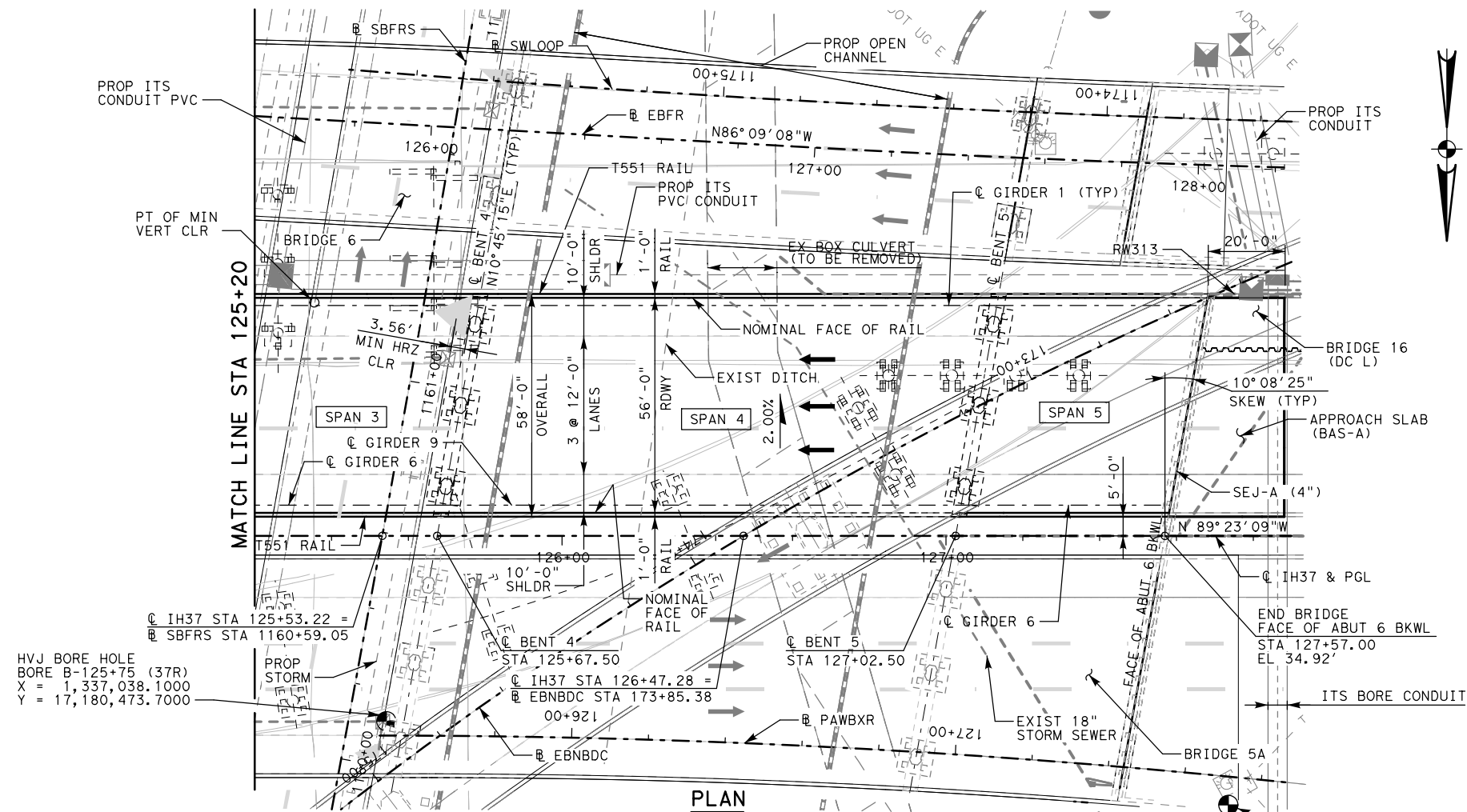
(2015) =

(2035) =

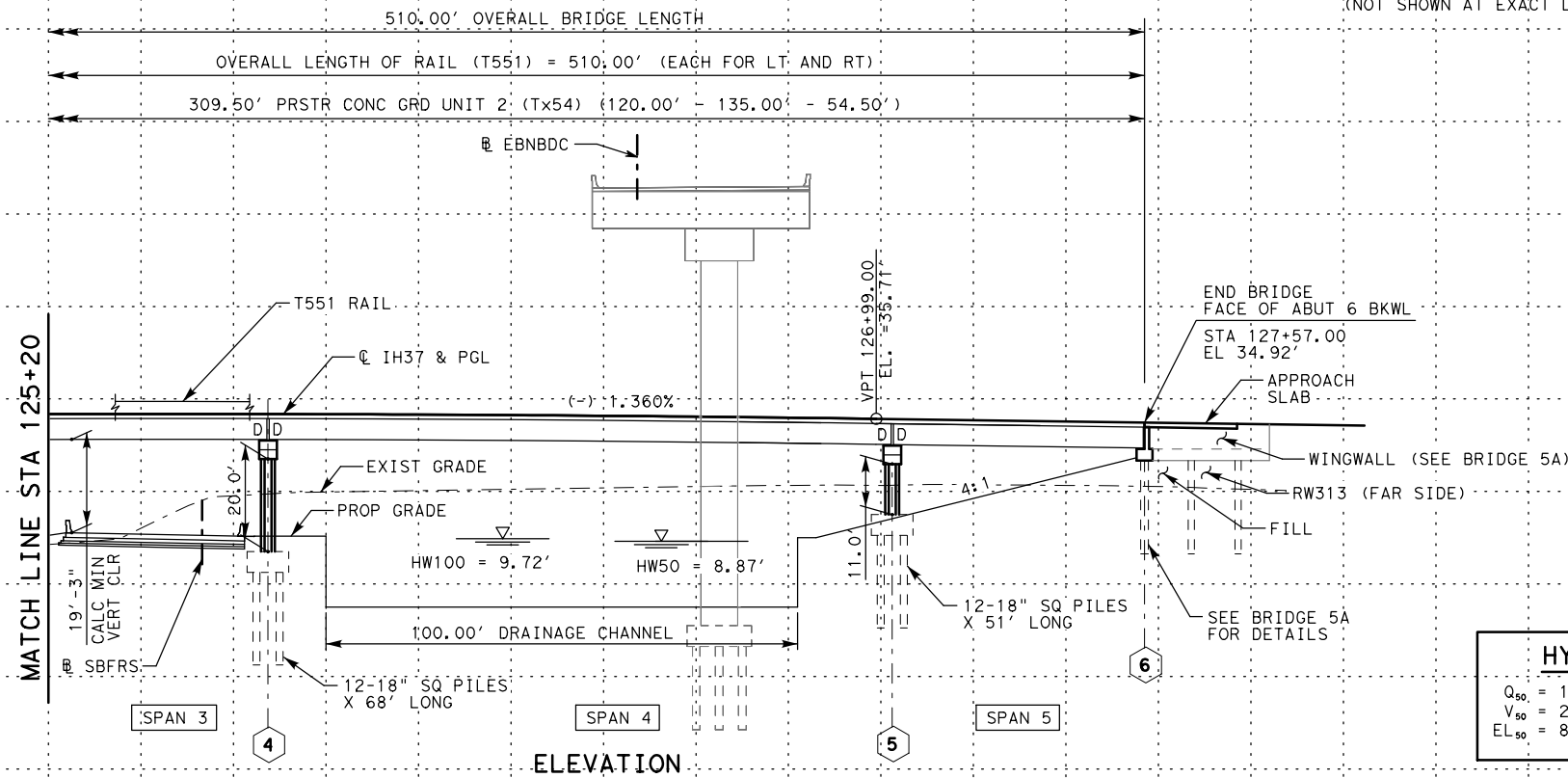
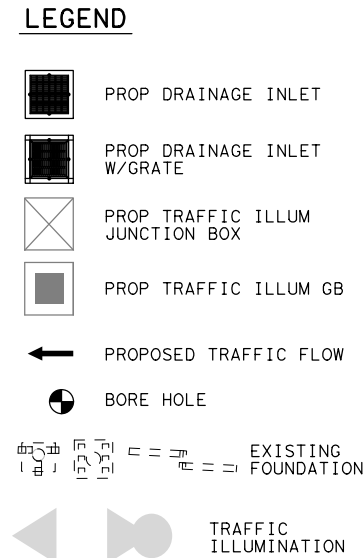
- NOTES:
- FOR GENERAL NOTES, SEE "GENERAL NOTES" SHEETS.
 - TOPO DATA PROVIDED BY CIVIL CORP. UTILITY DATA PROVIDED BY KCI.
 - ALL DIMENSIONS ARE EITHER HORIZONTAL OR VERTICAL AND MUST BE CORRECTED FOR GRADE, CROWN AND/OR SUPERELEVATION.
 - ALL SUPERELEVATION TRANSITIONS ARE LINEAR.
 - VERTICAL CLEARANCES 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.
 - SEE BRIDGE 5A FOR ABUTMENT 1 AND ABUTMENT 6 DETAILS.
 - REMOVE ALL EXISTING SUPERSTRUCTURE ELEMENTS AND ALL SUBSTRUCTURE ELEMENTS TO A MINIMUM OF TWO FEET BELOW FINAL GRADE ELEVATION.



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DATE: 8/4/2017 TIME: 6:34:19 PM USER: \$USER\$



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



HYDRAULIC DATA

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

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

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INTENDED FOR REGULATORY APPROVAL, PERMIT, BIDDING
OR CONSTRUCTION PURPOSES. THEY WERE PREPARED
BY OR UNDER THE SUPERVISION OF:

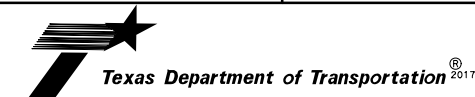
NICK N NIKPOUR 122413 08/04/2017
TBPE FIRM #F-6324 P.E. NO. DATE

HL-93 LOADING

NO.	DATE	REVISION	APPROVED

FLATIRON/DRAGADOS LLC

Stantec
Engineered by Stantec Consulting Services Inc.
Texas Registered Engineering Firm F-6324



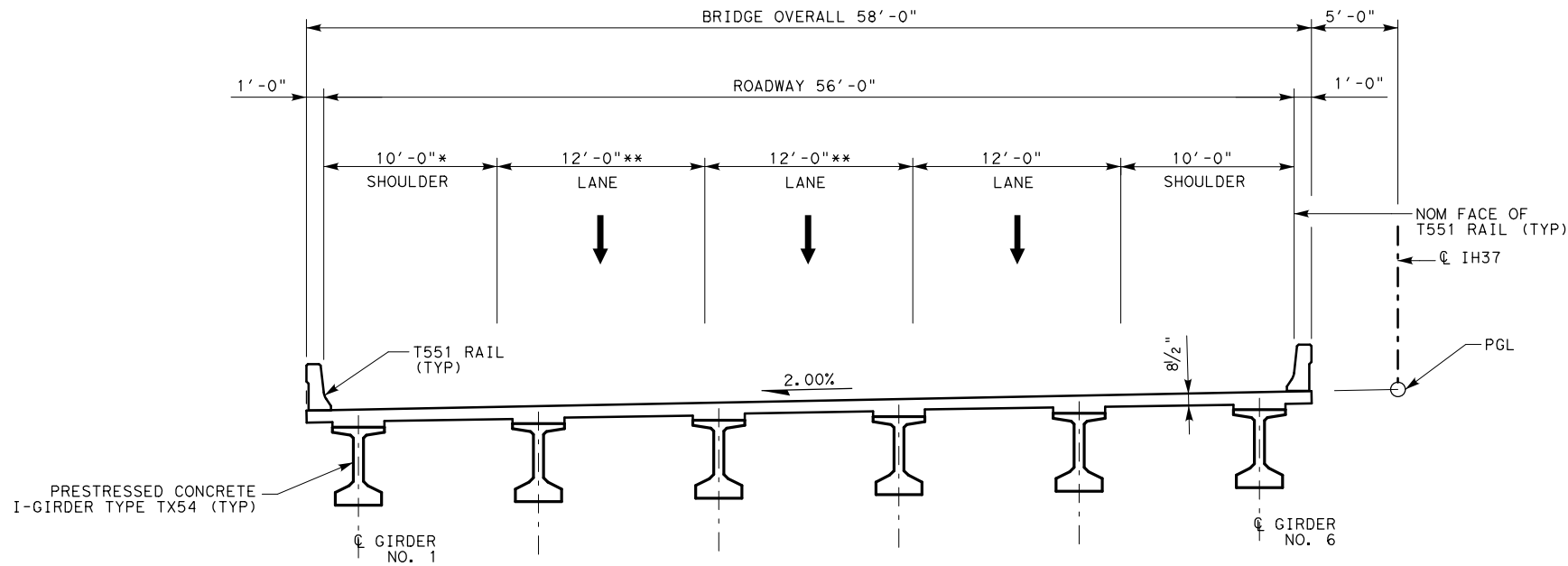
US 181 HARBOR BRIDGE
BRIDGE LAYOUT

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

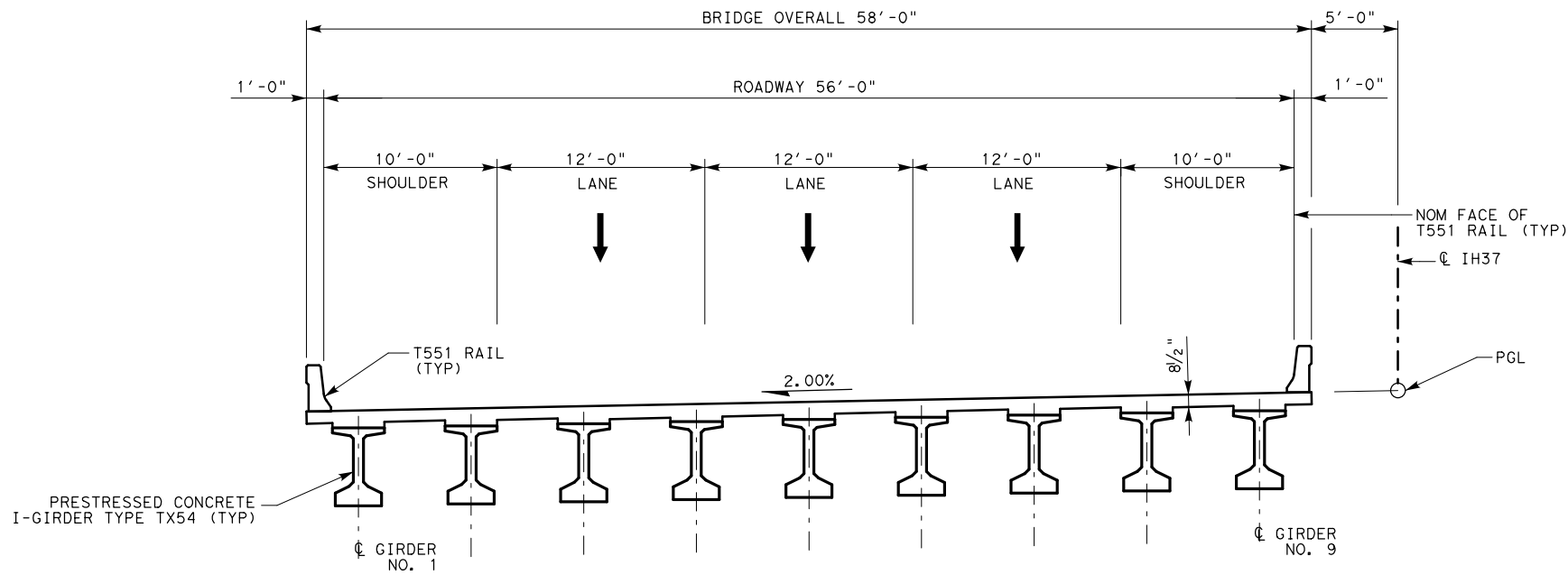
SCALE: 1" = 40'-0"				SHEET 2 OF 2
DESIGN SS	FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.		HIGHWAY NO.
GRAPHICS JG	6	HPX597 (1)		IH 37
CHECK FF	STATE	DISTRICT	COUNTY	SHEET NO.
CHECK FF	TEXAS	CRP	NUECES	RB05B
CHECK FF	CONTROL	SECTION	JOB	002
CHECK FF	0101	06	095	

PRELIMINARY NOT FOR CONSTRUCTION, AUGUST 2017

FILE: c:\pwworking\stntec\33122\5BHBR\BTS*01.dgn
DATE: 8/4/2017 TIME: 6:25:07 PM USER: \$USER\$



TYPICAL TRANSVERSE SECTION
(SPANS 1-3 & 5)



TYPICAL SECTION
(SPAN 4)

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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:

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

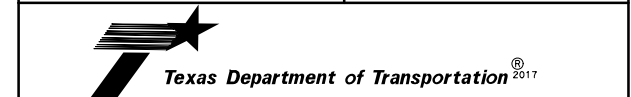
* VARIES FROM 10'-0" AT
SPAN 3 TO 14'-10 1/2"
AT FACE OF ABUTMENT NO. 1
BACKWALL.

** THESE TWO LANES INTERSECT
AS ONE VARYING LANE AT
SPANS NO 1 AND 2.

HL-93 LOADING

NO.	DATE	REVISION	APPROVED

	 Engineered by Stantec Consulting Services Inc. Texas Registered Engineering Firm F-6324
--	--



**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	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	003
	0101	06 095	

PRELIMINARY NOT FOR CONSTRUCTION, AUGUST 2017