

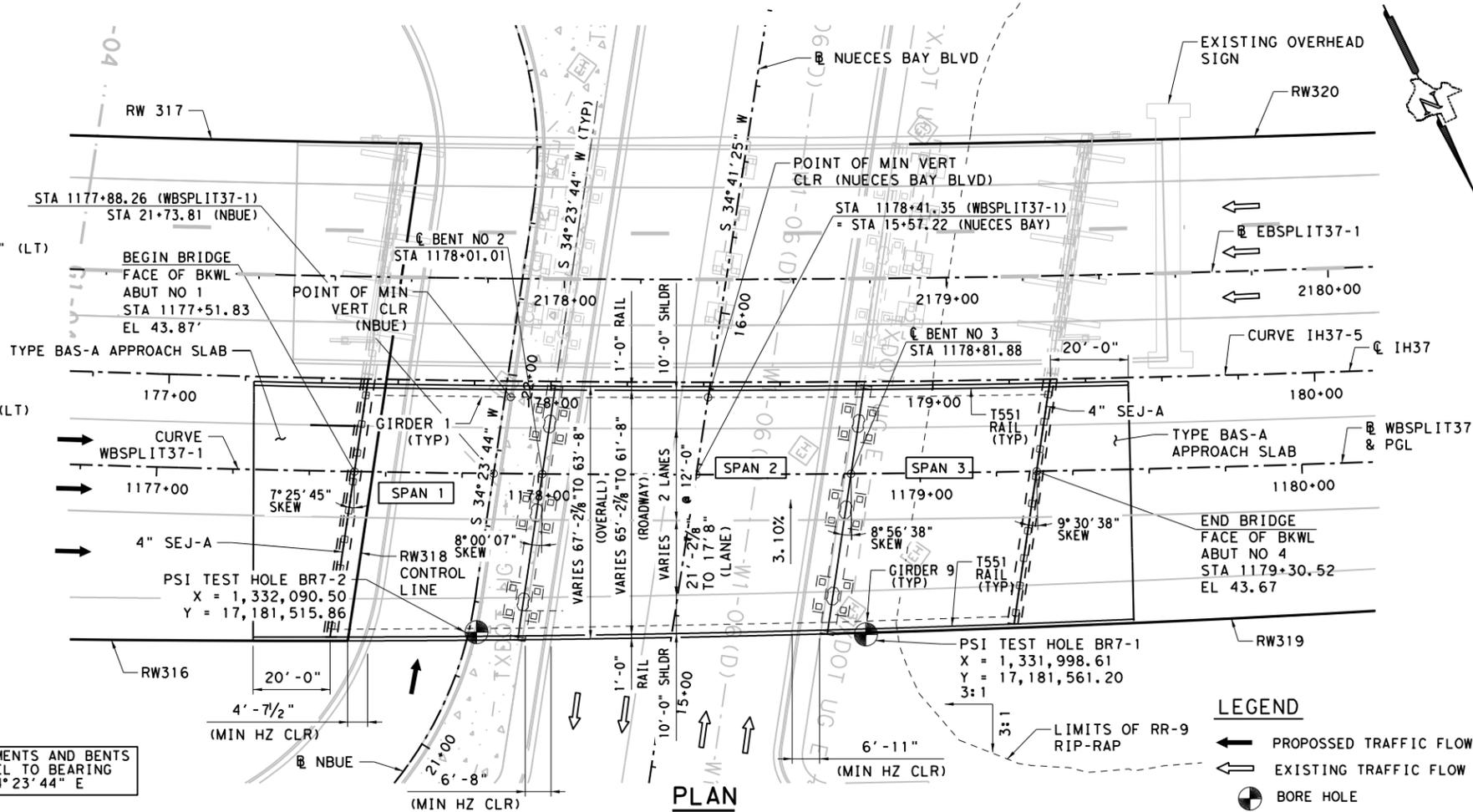
**DESIGN DATA**

EX NBI NO 16-178-0074-06-072 (NB)  
 NBI NO XX-XXX-XXXXXX-XXX  
 FUNC CLASS: MAINLINES

DESIGN SPEED: 55 MPH  
 ADT: BRIDGE 9A  
 (2023) = 23670  
 (2035) = 27460

CURVE IH37-5  
 P. I. STATION = 185+81.56  
 DELTA = 31°55' 03.05" (LT)  
 DEGREE = 1° 10' 52.88"  
 TANGENT = 1,386.94  
 LENGTH = 2,701.77  
 RADIUS = 4,850.00  
 P. C. STATION = 171+94.62  
 P. T. STATION = 198+96.38

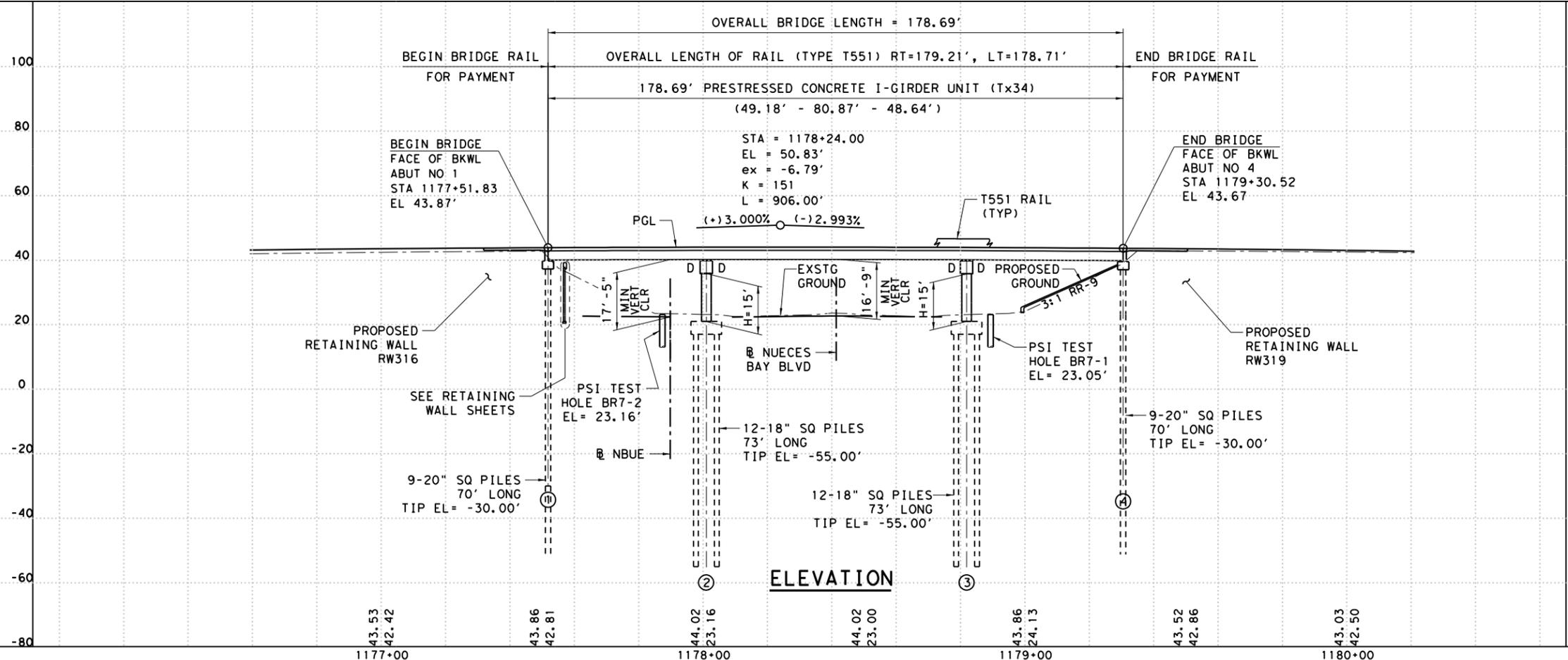
CURVE WBSPLIT37-1  
 P. I. STATION = 1180+42.14  
 DELTA = 19°51' 06.78" (LT)  
 DEGREE = 1° 09' 53.22"  
 TANGENT = 860.80  
 LENGTH = 1,704.34  
 RADIUS = 4,919.00  
 P. C. STATION = 1171+81.34  
 P. T. STATION = 1188+85.68



ALL ABUTMENTS AND BENTS  
 PARALLEL TO BEARING  
 S 34° 23' 44" E

- NOTES:**
- FOR GENERAL NOTES, SEE "GENERAL NOTES" SHEETS.
  - ROADWAY HORIZONTAL AND VERTICAL GEOMETRY, WIDTH, SUPERELEVATION, TRAFFIC DIRECTION, EXISTING GROUND LINE, PROPOSED GROUND LINE, AND RIGHT OF WAY DATA PROVIDED BY STANTEC. 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 CONDITIONS.
  - FOR CONCRETE GIRDER SPANS, "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 SECTION.
  - SEE "BORING LOG DATA" SHEETS FOR BORING LOG INFORMATION.
  - SEE "FOUNDATION LAYOUT" SHEETS FOR DRAINAGE AND UTILITY INFORMATION.
  - SOIL EXPLORATION DATA AND PILE TIP ELEVATION PROVIDED BY PSI.
  - BRIDGE NOT DESIGNED FOR OVERLAY LOAD.
  - SEE "ROADWAY ILLUMINATION" SHEETS FOR UNDERPASS LIGHT FIXTURE DETAILS.
  - EXISTING STRUCTURE NOT SHOWN. SEE "FOUNDATION LAYOUT" SHEET.
  - SEE SIGNAGE SHEETS FOR SIGN LOCATIONS AND BRIDGE MOUNT DETAILS.

HL-93 LOADING



FIGG BRIDGE ENGINEERS, 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:

CESAR FERNANDES 98112 07/24/2017  
 TBPE FIRM #F-4883 P.E. NO. DATE

NO.	DATE	REVISION	APPROVED

FLATIRON DRAGADOS LLC

FIGG  
 TBPE, FIRM # F-4883

Texas Department of Transportation 2017

US 181 HARBOR BRIDGE  
**BRIDGE LAYOUT**

IH 37 NBML OVERPASS  
 AT NUECES BAY BLVD  
 BRIDGE 9A

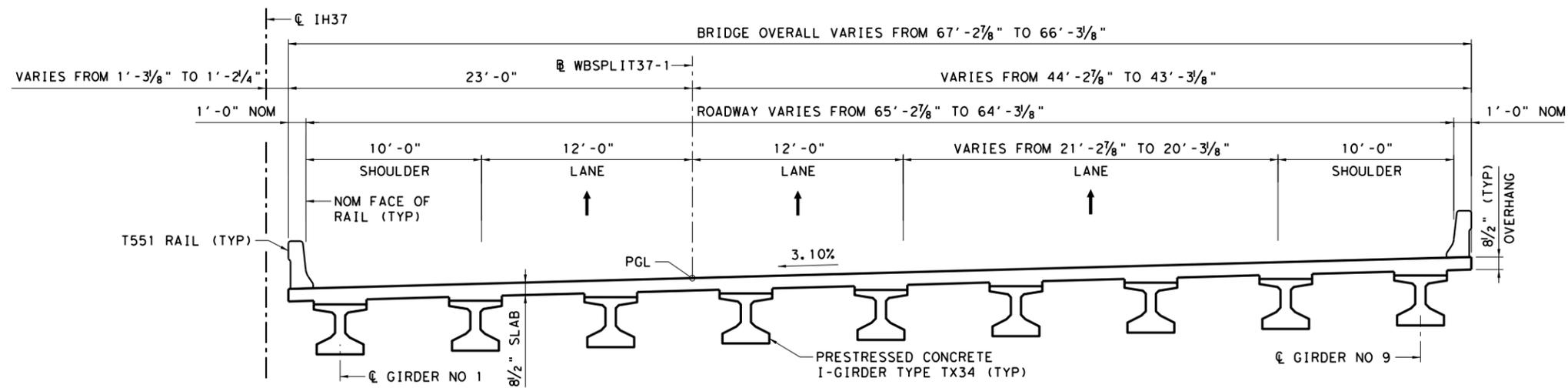
SCALE: 1"=40'-0" SHEET 1 OF 1

DESIGN	FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.	HIGHWAY NO.
DMS	X	(See Title Sheet)	IH 37
GRAPHICS	STATE	DISTRICT	COUNTY
SGF	TEXAS	CRP	NUECES
CHECK	CONTROL	SECTION	JOB
DAK	0101	06	095
CHECK	CF		

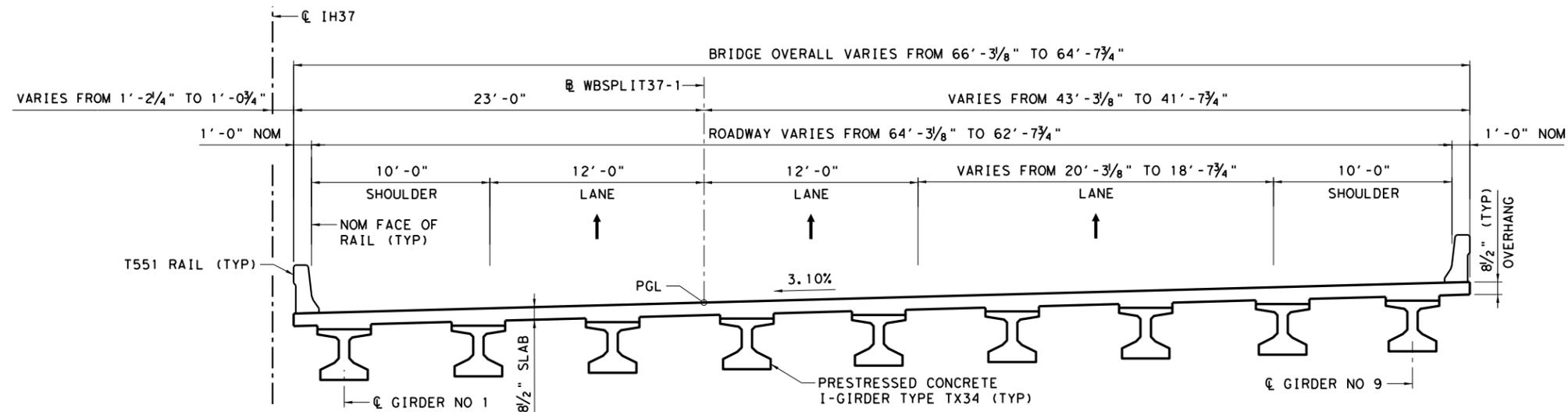
RB9A  
**001**

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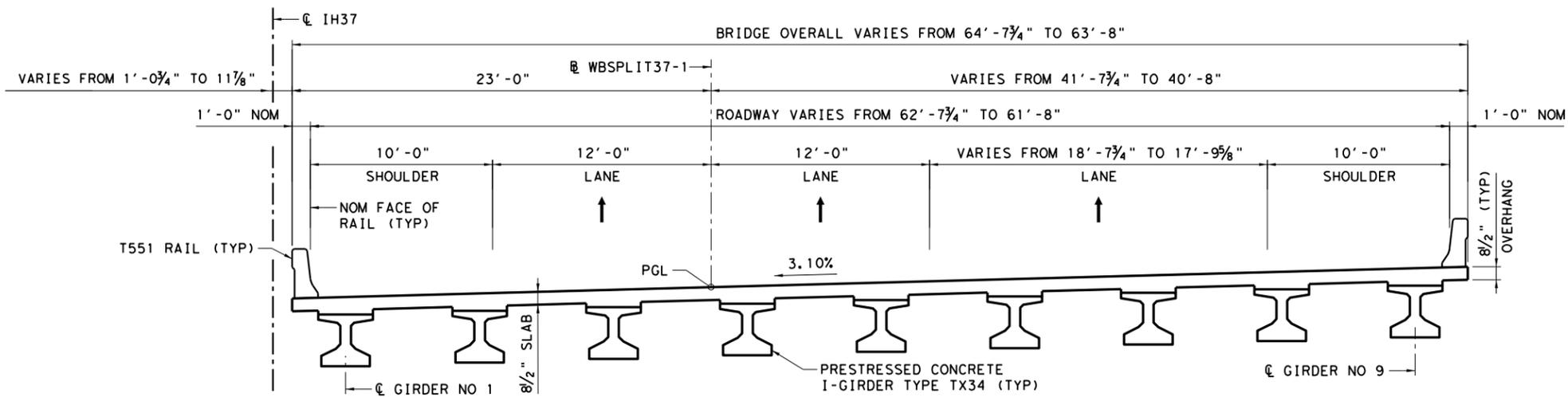
PRELIMINARY NOT FOR CONSTRUCTION, JULY 2017



**TYPICAL RADIAL SECTION**  
(SPAN 1)



**TYPICAL RADIAL SECTION**  
(SPAN 2)



**TYPICAL RADIAL SECTION**  
(SPAN 3)

- NOTES:**
- FOR GENERAL NOTES, SEE "GENERAL NOTES" SHEETS.
  - DIMENSIONS MEASURED RADIALLY TO @ WBSPLIT37-1 AT THE INTERSECTION OF THE @ SUBSTRUCTURE COMPONENTS AND THE WBSPLIT37-1 ALIGNMENT.

**LEGEND**  
← PROPOSED TRAFFIC FLOW

HL-93 LOADING

NO.	DATE	REVISION	APPROVED

FLATIRON DRAGADOS LLC

FIGG  
TBPE, FIRM # F-4883



US 181 HARBOR BRIDGE  
**TYPICAL SECTION**

IH 37 NBML OVERPASS  
AT NUECES BAY BLVD  
BRIDGE 9A

SCALE: 1/8" = 1'-0" SHEET 1 OF 1

DESIGN	FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.	HIGHWAY NO.
DMS	X	(See Title Sheet)	IH 37
GRAPHICS	STATE	DISTRICT	COUNTY
SGF	TEXAS	CRP	NUECES
CHECK	CONTROL	SECTION	JOB
DAK	0101	06	095
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TBPE FIRM #F-4883 P.E. NO. DATE

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