



# TxDOT Standard Bridges

BRG-DES



July 24, 2025

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







# What is a standard?

Per TxDOT PS&E manual, Section 2, Standard Drawing Reliability,

Plan sheets of TxDOT standard drawings are considered a product of the company which have evolved and been developed by many people over a considerable number of years, and in the case of existing standards, the details shown on the drawings have proven to be reliable through their years of use.

- TxDOT Bridge Division currently maintains:
  - 824 standards (1273 sheets)
- Two kinds of standard
  - Statewide Standard Drawings
  - District Standard Drawings

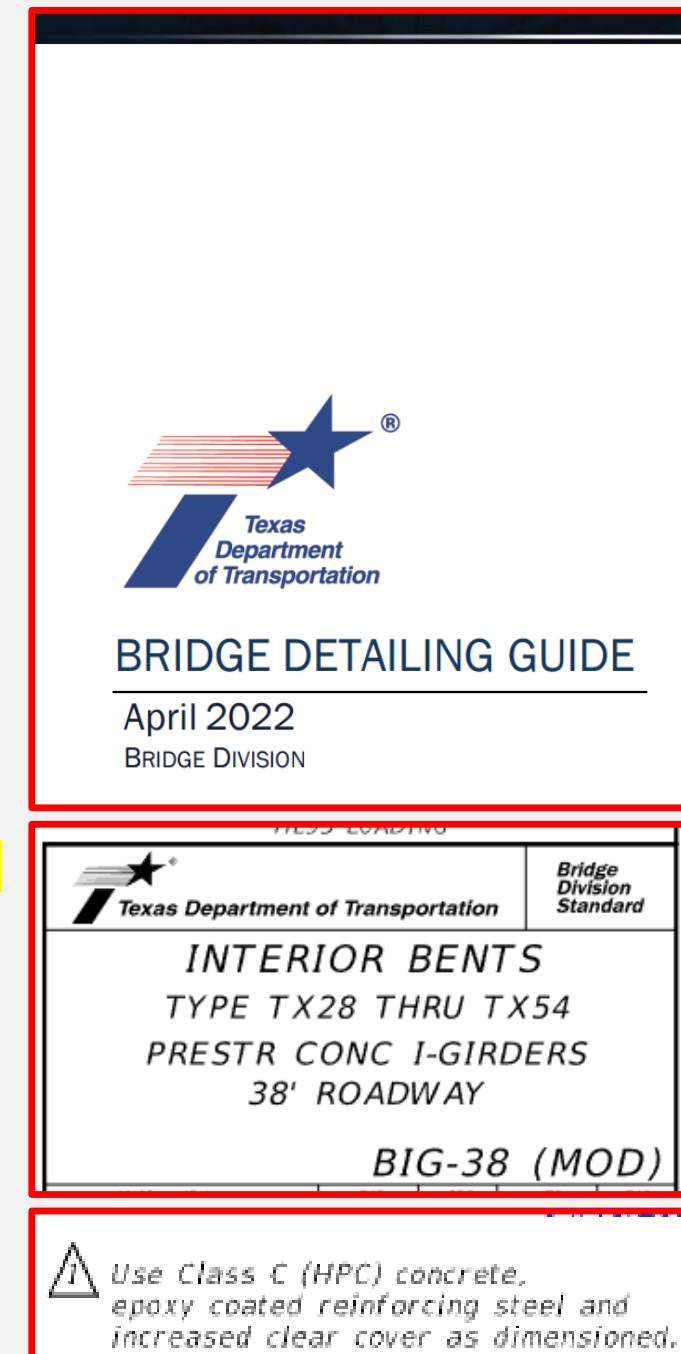
WORKING DRAWINGS			
Rev Date	Std Name	Description	File Name
08-22		Index Sheet of Working Drawings	 <a href="#">WD-Table-22.dgn</a>
<b>BRIDGE REPAIRS</b>			
Rev Date	Std Name	Description	File Name
08-22		Bridge Deck Overlay Notes	 <a href="#">WD-BDON-22.dgn</a>
08-22		Cleaning and Sealing Bridge Joints (Pan Girders)	 <a href="#">WD-CSBJ(PG)-22.dgn</a>
08-22		Cleaning and Sealing Bridge Joints	 <a href="#">WD-CSBJ-22.dgn</a>
08-22		Precompressed Foam Expansion Joint Seal	 <a href="#">WD-PFEJ-22.dgn</a>
08-22		Elastomeric Bearing Replacement (Concrete)	 <a href="#">WD-EBR(C)-22.dgn</a>
08-22		Elastomeric Bearing Replacement (Steel)	 <a href="#">WD-EBR(S)-22.dgn</a>
08-22		Prestressed Concrete Beam Repair	 <a href="#">WD-PCBR-22.dgn</a>
08-22		Bridge Protective Beam Wrap	 <a href="#">WD-BPBW-22.dgn</a>
08-22		Steel Beam Repair	 <a href="#">WD-SBR-22.dgn</a>
08-22		Pile Encasement	 <a href="#">WD-PED-22.dgn</a>

- There are working drawing now on the Standards Website for bridge repairs.


# Types of Standard Drawings

Per the Bridge Detailing Guide: Chapter 2, Section 3 ( <https://ftp.txdot.gov/pub/txdot-info/brg/design/bridge-detailing-guide.pdf>)

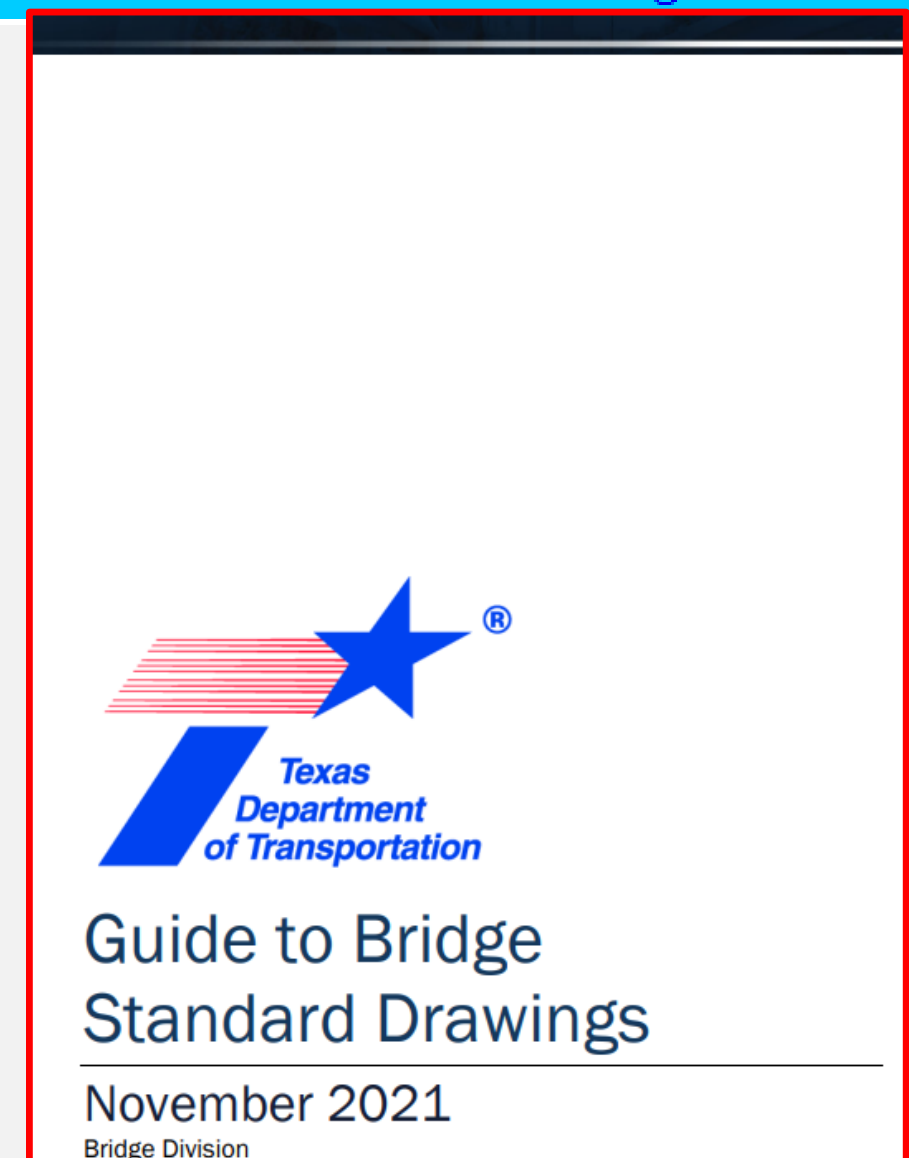
- **Statewide Standard Drawing** - Drawings are not considered to be an available standard until they are issued via the TxDOT internet site. The original version is kept on file in the Bridge Design Section of the Bridge Division. The electronic file of this original is available [here](#) on TxDOT's Internet web site. Any reproducible copies made from the electronic file may be used in plan sets and are not required to be signed or sealed.
- **Modified Standard Drawing** - Any change, however minor, to a standard drawing for use in a specific project, must be briefly described and dated in the revision block of the plan sheet. Bubble around the change made on the sheet. This sheet must be signed and sealed by the engineer of record. Additionally, the designation "(MOD)" must be placed after the standard name inside the title block.
- **District Standard Drawing** - Any drawings used regularly within a district that were developed by that district, or statewide standards that are revised to fit the individual needs of that district, may be considered a district standard. Each district must identify their standards by including the district name in the title block. Only the issuing district may use this drawing as a standard without signing and sealing.



# Standard Bridges: Guide to Bridge Standard Drawings

Rev Date	Subject	File Name
11-21	Guide to Bridge Standard Drawings	 guideste.pdf
11-21	Standard Bridge Spreadsheet	std-brg.xlsm

- Guide to Bridge Standard Drawings
  - Provides information on the appropriate use of Bridge Standards.
  - Provides information on which standards should be used together.



# Standard Bridges: Recent Memo Releases

- Any Updates/Revisions/Retirements to standards are shown in a memo.
- Check in with the Memo section of the Bridge Standards Webpage to get the latest news on what is available for use!
- Question or comments, please contact BRG\_Bridge3DDesign<[bridge3ddesign@txdot.gov](mailto:bridge3ddesign@txdot.gov)>.
- <https://www.txdot.gov/about/divisions/bridge-division.html>

*Memorandums of Issued/Revised Standards  
From September 2000 to Present*

Rev Date	Subject	File Name
06/11/2025	Prestressed U-Beam Standards Drawings - Retired	 memo89.pdf
05/06/2025	Revised Retaining Wall Standard Drawings and New Working Drawings	 memo88.pdf
02/04/2025	Concrete Slab & Girder (Pan Form) Standards Drawings - Retired	 memo87.pdf
01/31/2025	Prestressed Decked Slab Beams Standard Drawings - Retired	 memo86.pdf
11/22/2024	Revised I-Girder and X Beam Standard Drawings	 memo85.pdf
10/15/2024	New and Revised Miscellaneous Standard Drawing	 memo84.pdf
08/06/2024	New Wide Flange I-Girder Standards	 memo83.pdf
06/18/2024	New and Revised Culvert and Drainage Standards	 memo82.pdf
06/18/2024	New and Revised Bridge Railing Standards	 memo81.pdf
06/18/2024	New Wildlife Accommodation Standards and Working Drawings	 memo80.pdf
05/29/2024	New Foundation Note sheet and Foundation Load Sheets for Designers Information	 memo79.pdf
02/23/2024	New and Revised Working Drawings	 memo78.pdf
10/23/2023	Revised Prestressed Concrete I-Girder Standard Drawings	 memor77.pdf
07/31/2023	All Standard Drawings Update for Sheet Models and File Names	 memoi76.pdf
06/26/2023	Revised Culvert Standard Drawings	 memoi75.pdf
04/17/2023	New OBM Templates	 memoi74.pdf
03/09/2023	New and Revised Miscellaneous, Bridge Railing, Culvert, I-Girder and U-beam Standard Drawings	 memoi73.pdf
01/18/2023	New and Revised Concrete I-Girder Standard Drawings	 memoi72.pdf
08/23/2022	Revised Prestressed Concrete X Beam Standard Drawings	 memor71.pdf
08/23/2022	Revised Retaining Wall Standard Drawings	 memor70.pdf
08/08/2022	New Working Drawings	 memoi69.pdf
06/15/2022	New and Revised Retaining Wall Standard Drawings	 memoi68.pdf
02/17/2022	Revised T-Girder X-Beam, Slab beam and U-beam Standard Drawings	 memoi67.pdf



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A standard bridge is.....

These Bridge TxDOT standards are restricted by:

- Traffic Rails



(Showing girder type Tx46)

- ① If multi-span units (with slab continuous over interior bents) are indicated on the Bridge Layout, see standard IGCS for adjustment to slab reinforcement and quantities.
- ② Span lengths for Prestressed Concrete I-Girder type:  
Type Tx28 for spans lengths 40.000' thru 75.000'.  
Type Tx34 for spans lengths 40.000' thru 85.000'.  
Type Tx40 for spans lengths 40.000' thru 100.000'.  
Type Tx46 for spans lengths 40.000' thru 115.000'.  
Type Tx54 for spans lengths 40.000' thru 125.000'.
- ③ "Y" value shown is based on theoretical girder camber, dead load deflection from an 8 1/2" concrete slab, a constant roadway grade, and using precast panels (PCP). The Contractor will adjust this value as necessary for any roadway vertical curve.



## Type of a “ Standard Bridge”?


















Superstructure	Girder Size	Skew	Roadway Width
Prestressed I-Girders	Tx28, Tx34, Tx40, Tx46, Tx54, Tx62,	0°, 15°, 30°, or 45°	24', 28', 30', 32', 34', 38', 40', 44'
Prestressed Box Beams	4B20, 5B20, 4B28, 5B28, 4B34, 5B34, 4B40, 5B40	0°	24', 28', 30'
Prestressed Slab Beams	4SB12, 4SB15, 5SB12, 5SB15,	0°, 15°, or 30°	24', 28', 30'
Cast in Place Slab Span	Unit (25'), Unit(25'-25'), Unit(25.5'-25.5'), Unit(25'-25'-25'), Unit(25.5'-25.5'-25.5'), Unit(25'-30-25'), Unit(25.5'-30.5'-25.5')	0°, 15°, or 30°	24', 28', 30', 38', 44'
Prestressed X-Beams	5XB20, 5XB28, 5XB34, 5XB40	0°, 15°, or 30°	32', 38', 40', 44'
Steel Beams	Varies (W18x130 thru W40x149)	0°, 15°, or 30°	24', 28', 30'



# Standard Railings

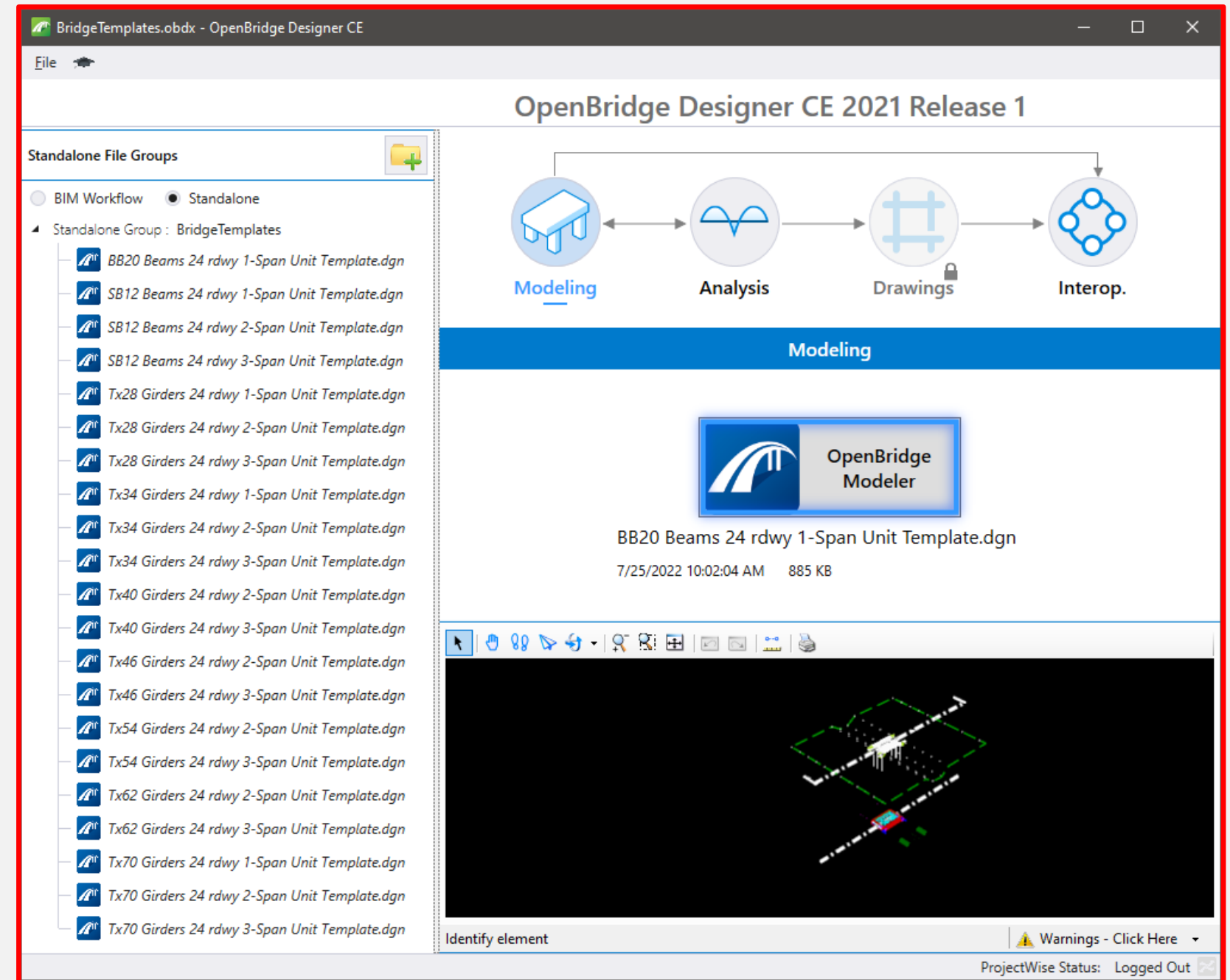
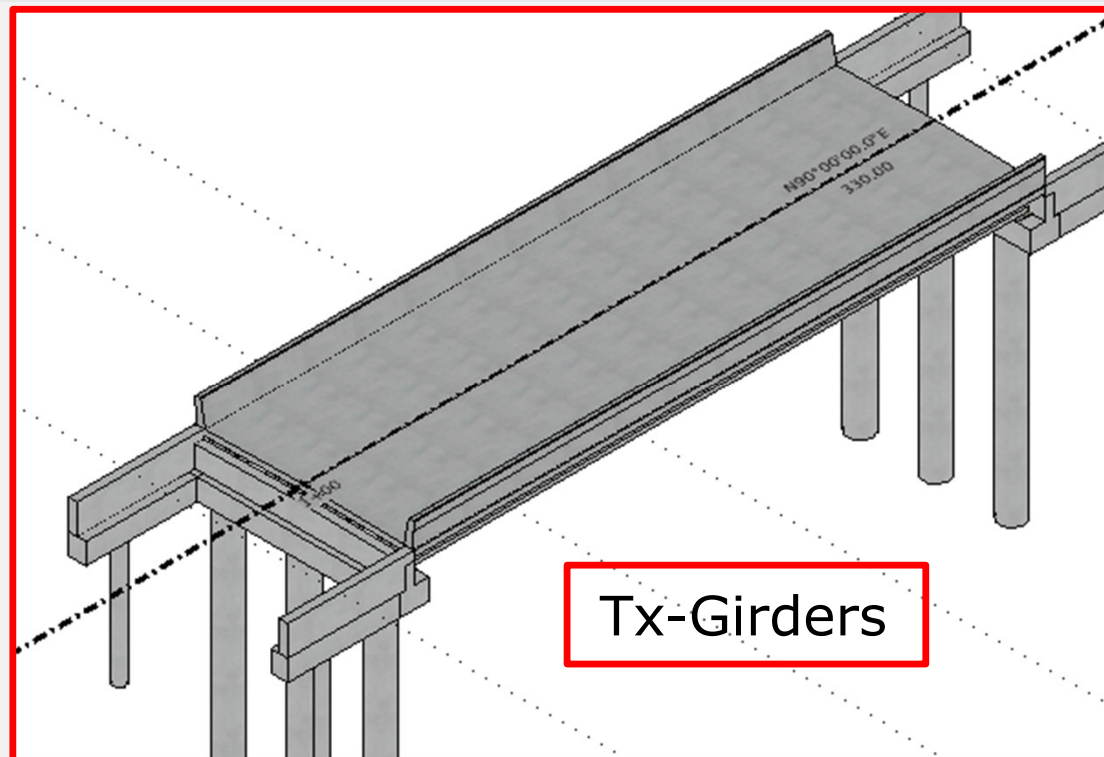
## Traffic Rail Standards

- Check applicability of standard Traffic Rails
  - See [Bridge Railing Manual](#) for rail selection guidance
- All rails are considered rigid except T631 & T631LS
  - The T631 and T631 LS Standard traffic rail are classified as flexible

TRAFFIC RAILS			
Rev Date	Std Name	Description	File Name
09-19	T1F	Steel Post w/Alum Tube & Opt Curb Drain Slots (TL-3)(33" tall)	 <a href="#">rlstd001-19.dgn</a>
09-19	T1W	Steel Rail w/Curb & Opt Curb Drain Slots (TL-3) (32" tall)	 <a href="#">rlstd002-19.dgn</a>
09-19	T2P	Steel Rail w/Curb & Opt Curb Drain Slots (TL-4) (42" tall)	 <a href="#">rlstd035-19.dgn</a>
09-19	T221	Concrete Vertical Parapet (TL-3)(32"tall)	 <a href="#">rlstd004-19.dgn</a>
09-19	T222	Concrete Vertical Parapet (TL-4)(36"tall)	 <a href="#">rlstd003-19.dgn</a>
09-19	T223	Concrete Beam & Post w/6' Openings (TL-3)(32" tall)	 <a href="#">rlstd005-19.dgn</a>
09-19	T224	Concrete Beam & Post w/10' Openings (TL-5)(42" tall)	 <a href="#">rlstd042-19.dgn</a>
09-19	T402	Concrete Parapet w/Steel Posts & Rail (TL-4)(42" tall)	 <a href="#">rlstd007-19.dgn</a>
07-20	T411	Concrete Traffic Rail w/Windows (Tx Classic)(TL-2)(32" tall)	 <a href="#">rlstd008-20.dgn</a>
09-19	T551	Concrete Safety F-Shape (TL-3)(32" tall)	 <a href="#">rlstd009-19.dgn</a>
09-19	T552	T551 w/Multiple Drain Slots (TL-3)(32" tall)	 <a href="#">rlstd010-19.dgn</a>
03-23	T631	Steel Rail w/ W-Beam (TL-3) (31" tall)	 <a href="#">RL-T631-23.dgn</a>
03-23	T631LS	Steel Rail w/ W-Beam (TL-2) (31" tall)	 <a href="#">RL-T631LS-23.dgn</a>
09-19	T66	Concr Bm, Post & Curb w/5.25' Max Openings (TL-3)(32" tall)	 <a href="#">rlstd012-19.dgn</a>
09-19	SSTR	Concrete Single Slope Traffic Rail (TL-4)(36" tall)	 <a href="#">rlstd014-19.dgn</a>
09-19	T80HT	Concrete & Steel Heavy Truck Traffic Rail (TL-5)(50" tall)	 <a href="#">rlstd015-19.dgn</a>
09-19	T80SS	Concrete Single Slope Heavy Truck Traffic Rail (TL-5)(42" tall)	 <a href="#">rlstd016-19.dgn</a>

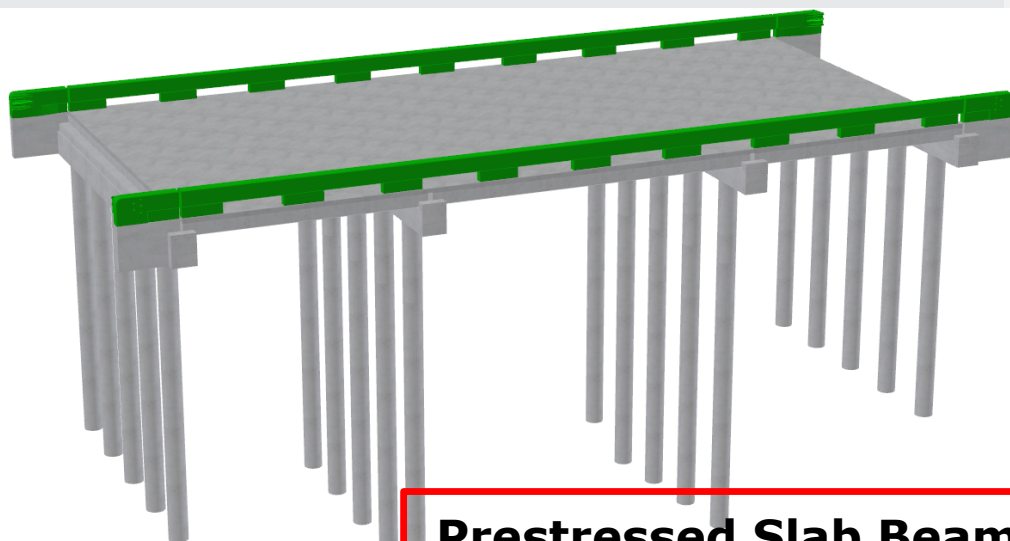
# Standard Bridges: Bridge OBM templates

- We have full bridge templates for Standard Bridges.
- The user will be able to copy these models to their project.
- Open the template, modify the alignment, modify span length, and change rail type.
- The engineer is responsible for accuracy of the model for their project.



# Standard Bridges: Bridge OBM templates

- Bridge Templates that model standard bridges
  - Prestressed Tx-Girders
  - Prestressed Slab Beam.
  - Prestress Adjacent Box Beams
  - Prestressed Spread Box beams (X-Beams)



**Prestressed Slab Beam**



## Bridge Standards

Last Update: Thursday, July 17, 2025



**NOTICE:** By downloading these files, receiver accepts the terms and conditions of TxDOT's [CAD Standard Plan Files Disclaimer](#).

**INSTRUCTIONS:** Click on the MicroStation (DGN) filename to download.

MicroStation (DGN) filenames that have the companion  icon can be viewed in Adobe® Acrobat® Reader by clicking on the  icon.

### BRIDGE DIVISION STANDARDS

[bridge-ex.xlsx](#) ~ The Bridge Division standards list.

### Supporting MicroStation files for displaying and plotting standards:

1. [txdot.rsc](#) ~ Font resource file (updated 08/03/07).
2. [ljetpsb2014.plt](#) ~ MicroStation 95 plot driver file for HP LaserJet Postscript printers. Such as HP9000dn and HP9040n. Supporting files also needed are [controld](#) and [ljetb.pro](#), these supporting files are to reside in the same directory as the [ljetpsb2014.plt](#). (updated 03/14/14)
3. [brgttf01.zip](#) ~ Bridge True Type Fonts are now used on Bridge Standards. For proper display of Bridge standards in MicroStation extract these font files into the C:\Windows\Fonts directory. Compare the PDF file with the DGN file for validation on correct fonts displayed in MicroStation.(updated June 2022)
4. Bridge templates that model standard bridges for Open Bridge Modeler (OBM).

- A. [Prestressed TxGirders.zip](#)
- B. [Prestressed Slab Beams.zip](#)
- C. [Prestr. Adjacent Box Beams.zip](#)
- D. [Prestr. Spread Box Beams \(X-Beams\).zip](#)

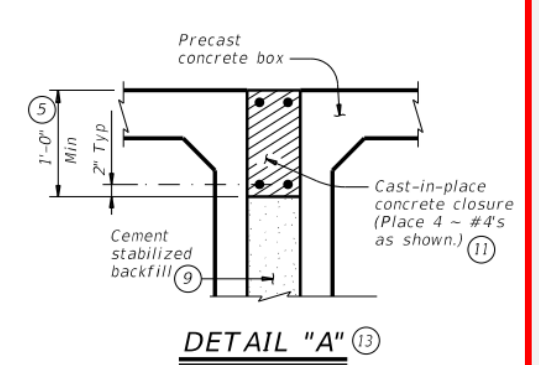
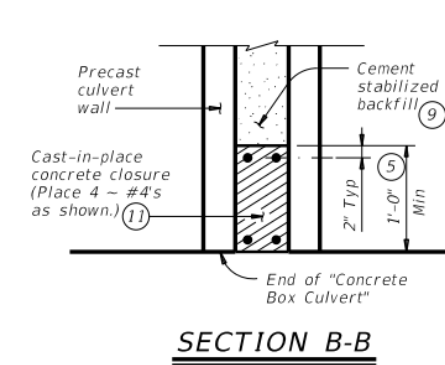
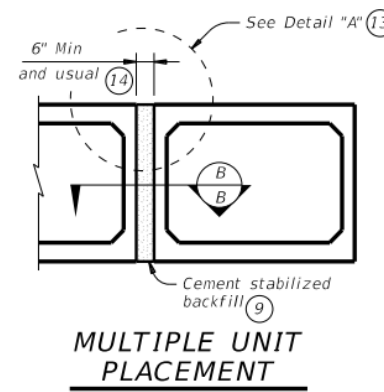


# What Makes a "Standard Box Culvert"?

## Box Culvert Standards

- Single Box Culverts.
  - C.I.P Span length: 3', 4', 5', 6', 7', 8', 9' and 10'
  - Precast Span length: 3', 4', 5', 6', 7', 8', 9', 10', 11' and 12'
- Which Should we use Precast or Cast-in-Place?
  - Insert both into plans. Allow the Contractor to decide.

Rev Date	Std Name	Description	File Name
03-23		Index Sht of Culvert & Drainage Stds	<a href="#">PDF</a> CD-table-23.dgn
<b>SINGLE BOX CULVERTS</b>			
Rev Date	Std Name	Description	File Name
02-20	SCC-MD	Cast-In-Place Miscellaneous Details	<a href="#">PDF</a> sccmdste-20.dgn
04-21	SCC-3 & 4	C-I-P 3' & 4' Span Boxes	<a href="#">PDF</a> scc34ste-21.dgn
04-21	SCC-5 & 6	C-I-P 5' & 6' Span Boxes	<a href="#">PDF</a> scc56ste-21.dgn
04-21	SCC-7	C-I-P 7' Span Boxes	<a href="#">PDF</a> scc07ste-21.dgn
04-21	SCC-8	C-I-P 8' Span Boxes	<a href="#">PDF</a> scc08ste-21.dgn
04-21	SCC-9	C-I-P 9' Span Boxes	<a href="#">PDF</a> scc09ste-21.dgn
04-21	SCC-10	C-I-P 10' Span Boxes	<a href="#">PDF</a> scc10ste-21.dgn
02-20	SCP-MD	Precast Miscellaneous Details	<a href="#">PDF</a> scpmdsts-20.dgn
02-20	SCP-3	Precast 3' Span Boxes	<a href="#">PDF</a> scp03sts-20.dgn
02-20	SCP-4	Precast 4' Span Boxes	<a href="#">PDF</a> scp04sts-20.dgn
02-20	SCP-5	Precast 5' Span Boxes	<a href="#">PDF</a> scp05sts-20.dgn
02-20	SCP-6	Precast 6' Span Boxes	<a href="#">PDF</a> scp06sts-20.dgn
02-20	SCP-7	Precast 7' Span Boxes	<a href="#">PDF</a> scp07sts-20.dgn
02-20	SCP-8	Precast 8' Span Boxes	<a href="#">PDF</a> scp08sts-20.dgn
02-20	SCP-9	Precast 9' Span Boxes	<a href="#">PDF</a> scp09sts-20.dgn
02-20	SCP-10	Precast 10' Span Boxes	<a href="#">PDF</a> scp10sts-20.dgn
02-20	SCP-11	Precast 11' Span Boxes	<a href="#">PDF</a> scp11sts-20.dgn
02-20	SCP-12	Precast 12' Span Boxes	<a href="#">PDF</a> scp12sts-20.dgn

























# What Makes a “Standard Box Culvert”?

## Box Culvert Standards

- Multiple Box Culverts
  - C.I.P span length: 3', 4', 5', 6', 7', 8', 9' and 10'
  - Number of Spans – Up to 6 spans
  - Design fill
  - Straight Wings, Flared and Parallel wings
- Yes! We can use Precast for multiple box culverts.
  - The standard Precast Miscellaneous Details (SCP-MD) covers these details.

MULTIPLE BOX CULVERTS			
Rev Date	Std Name	Description	File Name
02-20	MC-MD	Cast-In-Place Miscellaneous Details	 <a href="#">mc-mdste-20.dgn</a>
02-20	MC-3-23	C-I-P 3' Spans for Lengthening	 <a href="#">mc323ste-20.dgn</a>
02-20	MC-4-23	C-I-P 4' Spans for Lengthening	 <a href="#">mc423ste-20.dgn</a>
02-20	MC-5-20	C-I-P 5' Spans thru 20' Fill	 <a href="#">mc520ste-20.dgn</a>
02-20	MC-5-23	C-I-P 5' Spans thru 23' Fill	 <a href="#">mc523ste-20.dgn</a>
02-20	MC-6-16	C-I-P 6' Spans thru 16' Fill	 <a href="#">mc616ste-20.dgn</a>
02-20	MC-6-20	C-I-P 6' Spans thru 20' Fill	 <a href="#">mc620ste-20.dgn</a>
02-20	MC-6-23	C-I-P 6' Spans thru 23' Fill	 <a href="#">mc623ste-20.dgn</a>
02-20	MC-7-10	C-I-P 7' Spans thru 10' Fill	 <a href="#">mc710ste-20.dgn</a>
02-20	MC-7-16	C-I-P 7' Spans thru 16' Fill	 <a href="#">mc716ste-20.dgn</a>
02-20	MC-7-20	C-I-P 7' Spans thru 20' Fill	 <a href="#">mc720ste-20.dgn</a>
02-20	MC-7-23	C-I-P 7' Spans thru 23' Fill	 <a href="#">mc723ste-20.dgn</a>
02-20	MC-8-13	C-I-P 8' Spans thru 13' Fill	 <a href="#">mc813ste-20.dgn</a>
02-20	MC-8-16	C-I-P 8' Spans thru 16' Fill	 <a href="#">mc816ste-20.dgn</a>
02-20	MC-8-20	C-I-P 8' Spans thru 20' Fill	 <a href="#">mc820ste-20.dgn</a>
02-20	MC-8-23	C-I-P 8' Spans thru 23' Fill	 <a href="#">mc823ste-20.dgn</a>
02-20	SW-0	Straight Wings for 0 Deg Skew	 <a href="#">sw-0stde-20.dgn</a>
02-20	FW-0	Flared Wings for 0 Deg Skew	 <a href="#">fw-0stde-20.dgn</a>
02-20	FW-S	Flared Wings for Skews	 <a href="#">fw-sstde-20.dgn</a>
02-20	PW	Parallel Wings Skewed/Non Skewed	 <a href="#">pwstde01-20.dgn</a>

# Bid Codes Number

- Sort Bid Codes in Numerical Order
- Spelling of Bid Code & Bid Code Number must exactly match spelling from master list of TxDOT bid codes from TxDOT website.
- Not an issue if Axiom is used.

0400 6005	0416 6001	0416 6004	0420 6013
CEM STABIL BKFL	DRILL SHAFT (18 IN)	DRILL SHAFT (36 IN)	CL C CONC (ABUT) <div>1</div>
CY	LF	LF	CY

## SUMMARY OF ESTIMATED QUANTITIES

BID ITEM	BID CODE	0400 6005	0416 6002	0420 6013	0420 6029	0420 6037	0422 6007	0425 6012	0432 6033	0450 6006	0454 6004	0496 6009
BID ITEM DESCRIPTION		CEM STABIL BKFL	DRILL SHAFT (24 IN)	CL C CONC (ABUT)	CL C CONC (CAP)	CL C CONC (COLUMN)	REINF CONC SLAB (SLAB BEAM)	PRESTR CONC SLAB BEAM (5SB15)	RIPRAP (STONE PROTECTION) 18 IN)	RAIL (TY T223)	ARMOR JOINT (SEALED)	REMOV STR (BRIDGE 0 - 99 FT LENGTH)
BRIDGE ELEMENT		CY	LF	CY	CY	CY	SF	LF	CY	LF	LF	EA
2 - ABUTMENTS												
2 - INTERIOR BENTS												
1 - <div></div> PRESTRESSED CONC. SLAB BEAM UNIT												
OVERALL TOTALS:												

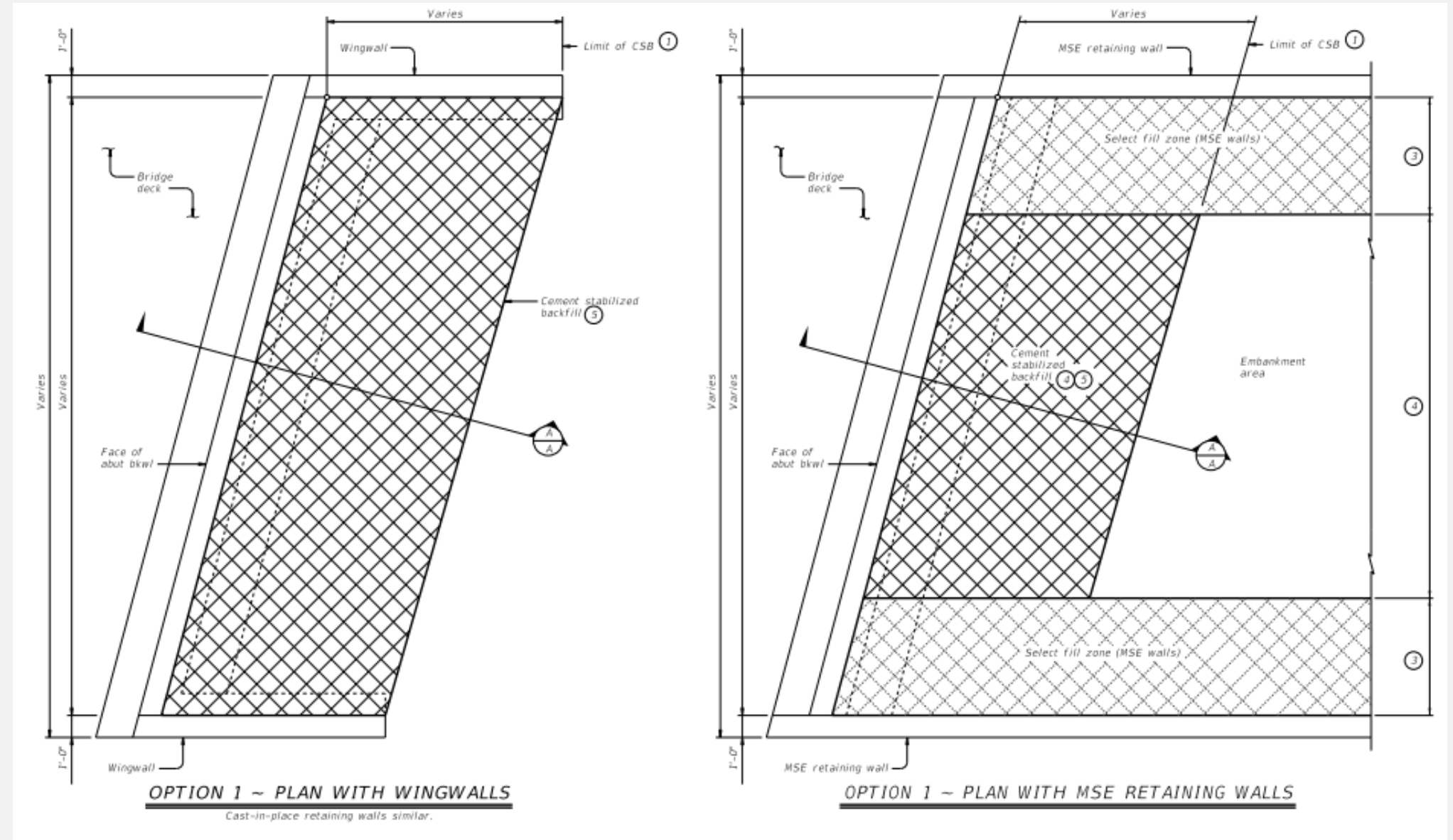
# EQ Sheet: Quantity Tolerances

- From Bridge Detailing Guide

Bid Tolerances		
Bid Item #	Common Item	Show to Nearest
400	Structural Excavation	1 CY
400	Cement Stabilized Backfill	1 CY
402	Trench Excavation Protection	1 LF
409	Prestressed Concrete Piling	1 LF
416	Drill Shaft Foundations	1 LF
420	Concrete	0.1 CY
422	Reinforced Concrete Slab	1 SF
425	Prestressed Concrete Beams	0.01 LF
432	Riprap	1 CY
434	Elastomeric Bearings	EA
442	Structural Steel	See Estimated Quantities in Appendix E
450	Railing	0.1 LF
454	Expansion Joint	1 LF
514	Permanent Concrete Traffic Barrier	0.1 LF
786	Carbon Fiber Reinforced Polymer	0.1 SF

# EQ Sheet: Cement Stabilized Backfill

- If no approach slab, need pavement thickness.
- Note that Section A-A is perpendicular to the abutment.
- When adjacent to MSE retaining walls, assume the select fill width is approximately 80% of retaining wall height.
- Verify slope is no steeper than 1:1
- Option 2 for PI greater than 30 or pavement built in poor native soil, see General note.





# EQ Sheet: Pile Lengths

- When calculating pile lengths for payment, include embedment of pile into caps. See FD Standard.
- Account for batter in battered pile length.
- Use bearing seat or step/cap elevations as basis to calculate top of cap. Do not measure top of cap elevations from the layout.

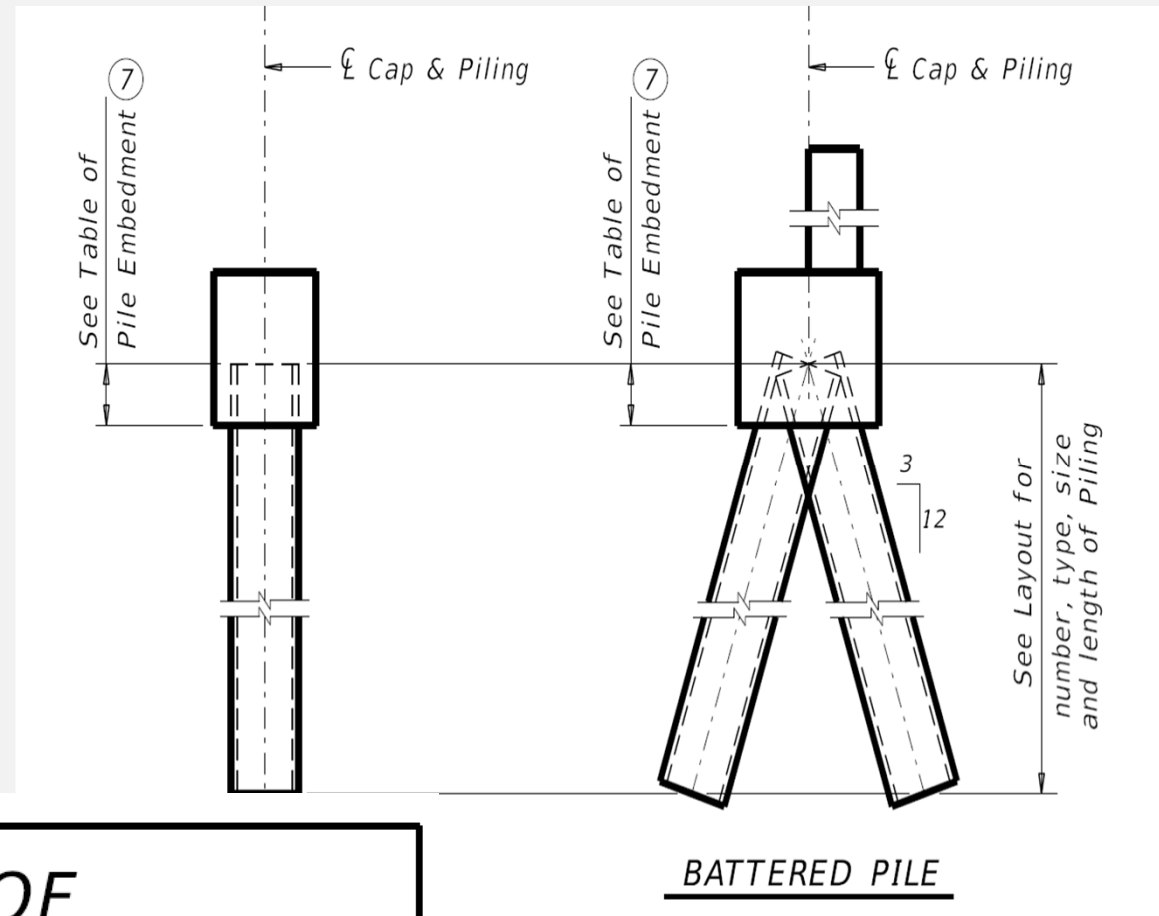
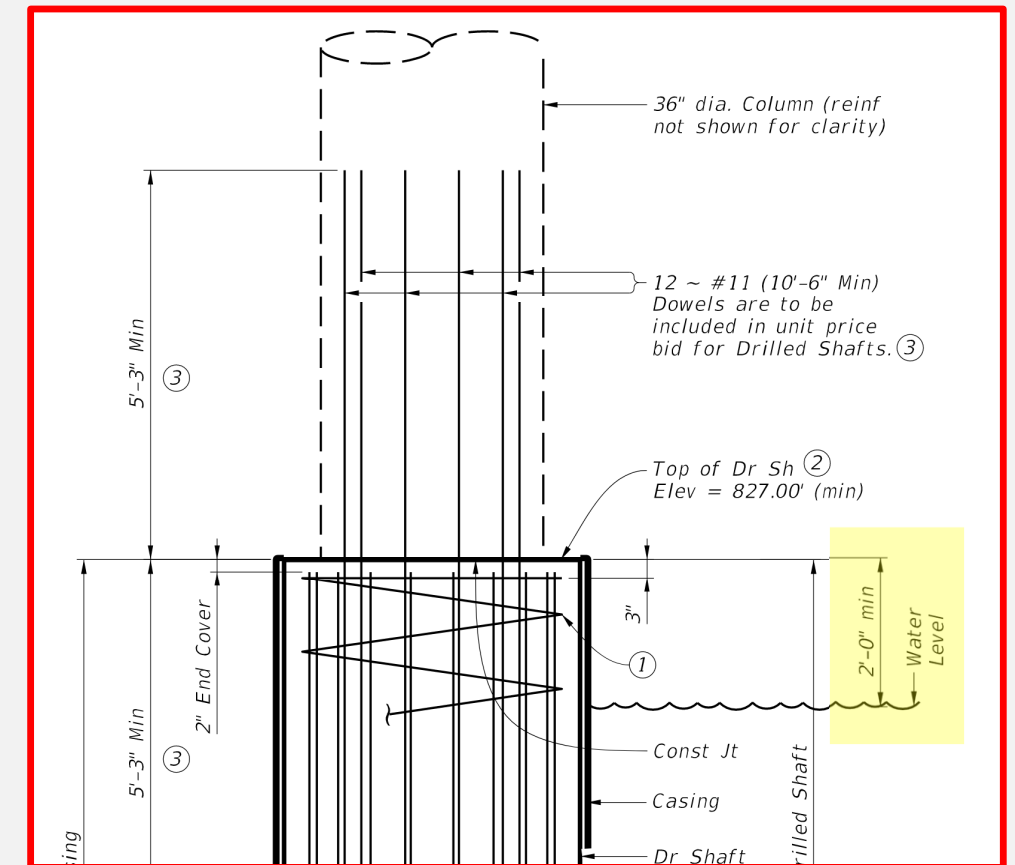


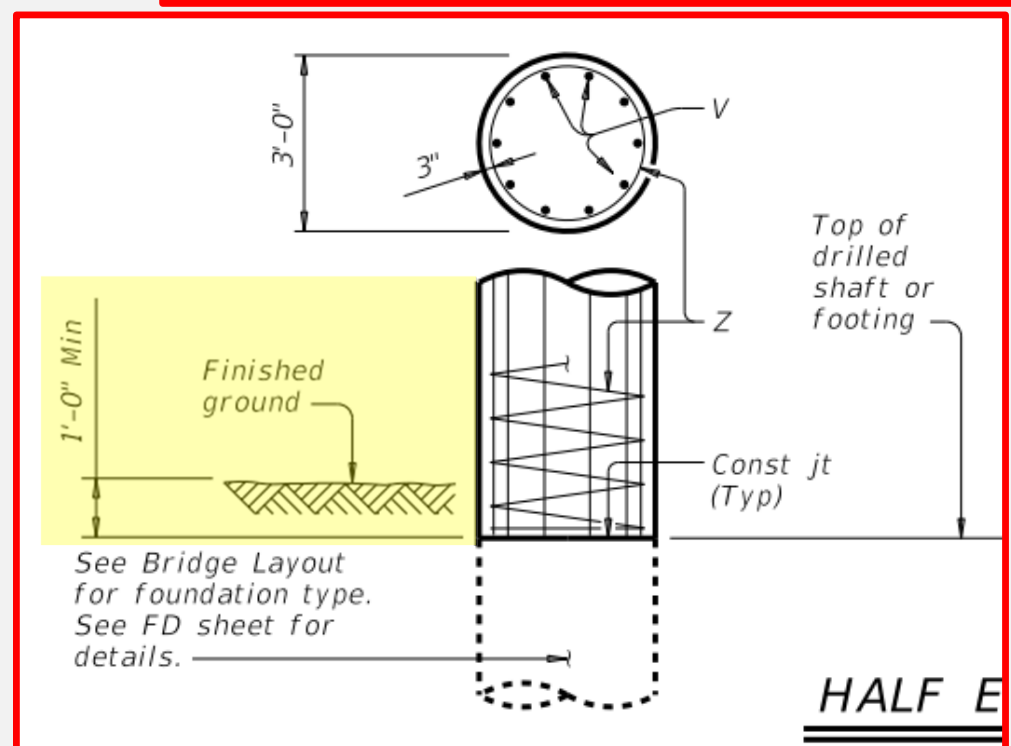
TABLE OF PILE EMBEDMENT	
Pile Type	Embedment Depth (Ft)
16" Sq Concrete 18" Sq Concrete HP14 Steel HP16 Steel	1'-0"
20" Sq Concrete 24" Sq Concrete HP18 Steel	1'-6"

# EQ Sheet: Column Lengths

- Use column heights shown on bridge layout to calculate total CY.
  - Note 1 on interior bent sheets will help quickly get column EQ.
- In ground, bottom of column is 1' min below ground line.
- In water, bottom of column is 2' min above water line.



- ① Quantities shown are based on an "H" value of 36'. For each linear foot variation in "H" value, make the following adjustments:  
Bars V length, 1'-0"  
Bars Z length, 31'-5"  
Reinforcing steel, 220 Lb  
Class "C" conc (col), 1.05 CY
- ② This standard may not be used for "H" heights exceeding 36'. In areas of very soft soil or where scour is anticipated, allowable "H" heights must be evaluated by the Engineer prior to the use of this standard.
- ③ Omit Dowels D at end of multi-span units. Adjust reinforcing steel total accordingly.
- ④ Foundation Loads based on "H" = 36'.
- ⑤ Measured parallel to top of cap cross-slope.



# Standard Bridge: 34 ft Roadway Details

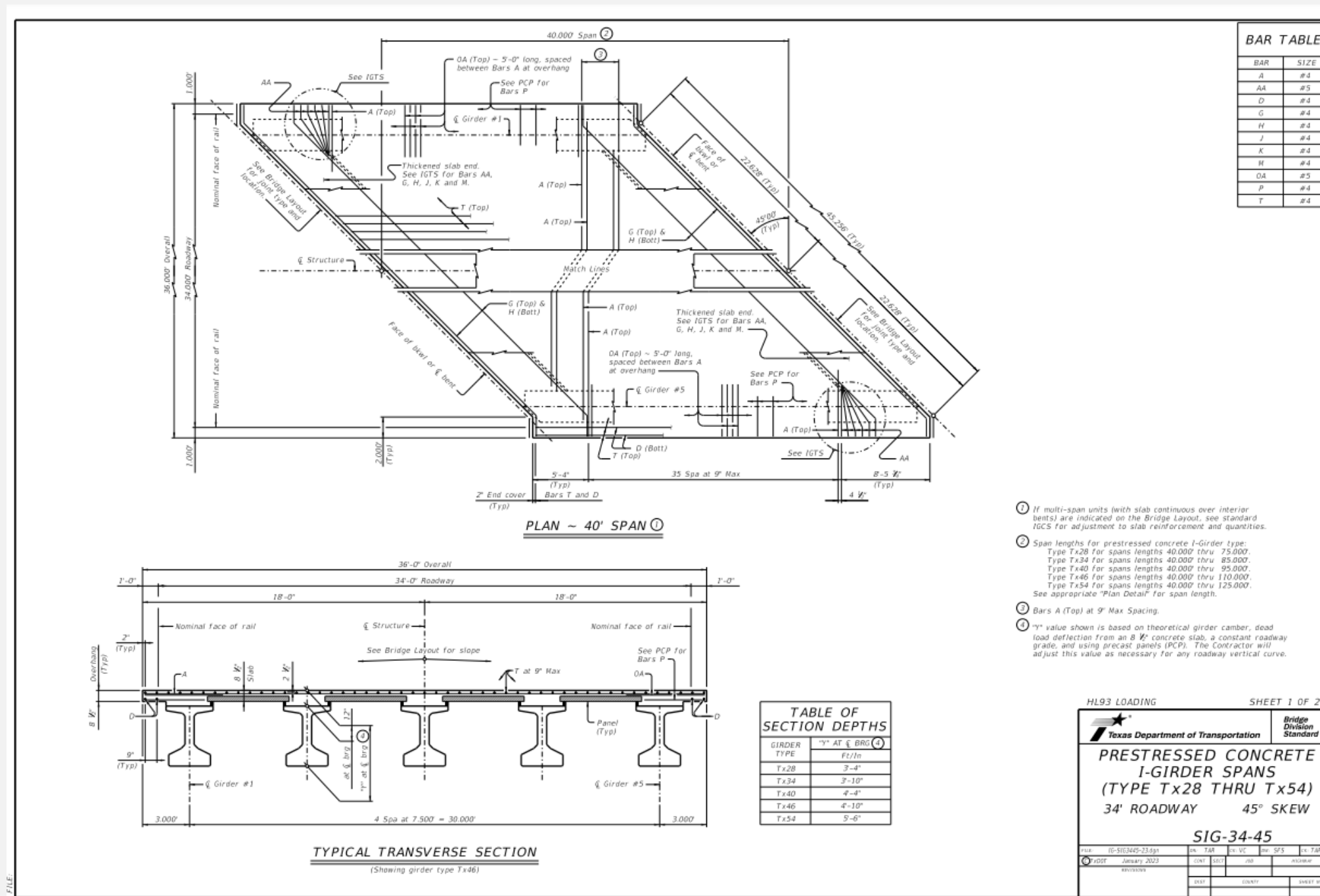
## PRESTRESSED CONCRETE I-GIRDER 34' ROADWAY DETAILS

Rev Date	Std Name	Description	File Name
01-23	IGSD-34	Std Designs,Ty Tx28 Thru Tx62 Girders,34' Rdwy	<a href="#">PDF IG-IGSD34-23.dgn</a>
01-23	AIG-34	Abut,Ty Tx28 Thru Tx54 Girders,34' Rdwy	<a href="#">PDF IG-AIG3400-23.dgn</a>
01-23	AIG-62-34	Abut,Ty Tx62 Girders,34' Rdwy	<a href="#">PDF IG-AIG623400-23.dgn</a>
01-23	AIG-34-15	Abut,Ty Tx28 Thru Tx54 Girders,34' Rdwy 15 Deg	<a href="#">PDF IG-AIG3415-23.dgn</a>
01-23	AIG-62-34-15	Abut,Ty Tx62 Girders,34' Rdwy,15 Deg	<a href="#">PDF IG-AIG623415-23.dgn</a>
01-23	AIG-34-30	Abut,Ty Tx28 Thru Tx54 Girders,34' Rdwy,30 Deg	<a href="#">PDF IG-AIG3430-23.dgn</a>
01-23	AIG-62-34-30	Abut,Ty Tx62 Girders,34' Rdwy,30 Deg	<a href="#">PDF IG-AIG623430-23.dgn</a>
01-23	AIG-34-45	Abut,Ty Tx28 Thru Tx54 Girders,34' Rdwy,45 Deg	<a href="#">PDF IG-AIG3445-23.dgn</a>
01-23	AIG-62-34-45	Abut,Ty Tx62 Girders,34' Rdwy,45 Deg	<a href="#">PDF IG-AIG623445-23.dgn</a>
01-23	BIG-34	Bent,Ty Tx28 Thru Tx54 Girders,34' Rdwy	<a href="#">PDF IG-BIG3400-23.dgn</a>
01-23	BIG-62-34	Bent,Ty Tx62 Girders,34' Rdwy	<a href="#">PDF IG-BIG623400-23.dgn</a>
01-23	BIG-34-15	Bent,Ty Tx28 Thru Tx54 Girders,34' Rdwy,15 Deg	<a href="#">PDF IG-BIG3415-23.dgn</a>
01-23	BIG-62-34-15	Bent,Ty Tx62 Girders,34' Rdwy,15 Deg	<a href="#">PDF IG-BIG623415-23.dgn</a>
01-23	BIG-34-30	Bent,Ty Tx28 Thru Tx54 Girders,34' Rdwy,30 Deg	<a href="#">PDF IG-BIG3430-23.dgn</a>
01-23	BIG-62-34-30	Bent,Ty Tx62 Girders,34' Rdwy,30 Deg	<a href="#">PDF IG-BIG623430-23.dgn</a>
01-23	BIG-34-45	Bent,Ty Tx28 Thru Tx54 Girders,34' Rdwy,45 Deg	<a href="#">PDF IG-BIG3445-23.dgn</a>
01-23	BIG-62-34-45	Bent,Ty Tx62 Girders,34' Rdwy,45 Deg	<a href="#">PDF IG-BIG623445-23.dgn</a>
01-23	BTIG-34	Trestle Bent,Ty Tx28 Thru Tx54,34' Rdwy	<a href="#">PDF IG-BTIG3400-23.dgn</a>
01-23	BTIG-34-15	Trestle Bent,Ty Tx28 Thru Tx54,34' Rdwy,15 Deg	<a href="#">PDF IG-BTIG3415-23.dgn</a>
01-23	BTIG-34-30	Trestle Bent,Ty Tx28 Thru Tx54,34' Rdwy,30 Deg	<a href="#">PDF IG-BTIG3430-23.dgn</a>
01-23	BTIG-34-45	Trestle Bent,Ty Tx28 Thru Tx54,34' Rdwy,45 Deg	<a href="#">PDF IG-BTIG3445-23.dgn</a>
01-23	SIG-34	Span,Ty Tx28 Thru Tx54 Girders,34' Rdwy	<a href="#">PDF IG-SIG3400-23.dgn</a>
01-23	SIG-62-34	Span,Ty Tx62 Girders,34' Rdwy	<a href="#">PDF IG-SIG623400-23.dgn</a>
01-23	SIG-34-15	Span,Ty Tx28 Thru Tx54 Girders,34' Rdwy,15 Deg	<a href="#">PDF IG-SIG3415-23.dgn</a>
01-23	SIG-62-34-15	Span,Ty Tx62 Girders,34' Rdwy,15 Deg	<a href="#">PDF IG-SIG623415-23.dgn</a>
01-23	SIG-34-30	Span,Ty Tx28 Thru Tx54 Girders,34' Rdwy,30 Deg	<a href="#">PDF IG-SIG3430-23.dgn</a>
01-23	SIG-62-34-30	Span,Ty Tx62 Girders,34' Rdwy,30 Deg	<a href="#">PDF IG-SIG623430-23.dgn</a>
01-23	SIG-34-45	Span,Ty Tx28 Thru Tx54 Girders,34' Rdwy,45 Deg	<a href="#">PDF IG-SIG3445-23.dgn</a>
01-23	SIG-62-34-45	Span,Ty Tx62 Girders,34' Rdwy,45 Deg	<a href="#">PDF IG-SIG623445-23.dgn</a>

## PRESTRESSED CONCRETE I-GIRDERS

Rev Date	Std Name	Description	File Name
03-23		Index sht of Prestr I-Girder Standards	<a href="#">PDF IG-table-23.dgn</a>
<b>PRESTRESSED CONCRETE I-GIRDER DETAILS</b>			
Rev Date	Std Name	Description	File Name
01-23	IGCS	Continuous Slab Details	<a href="#">PDF IG-IGCS-23.dgn</a>
03-23	IGD	Prestressed Concrete I-Girder Details	<a href="#">PDF IG-IGD-23.dgn</a>
08-17	IGEB	Elastomeric Bearing & Girder End Details	<a href="#">PDF igebsts1-17.dgn</a>
10-19	IGFRP	GFRP Slab Top Mat Reinforcement	<a href="#">PDF igfrp001-19.dgn</a>
10-19	IGMS	Miscellaneous Slab Details	<a href="#">PDF igmssts1-19.dgn</a>
03-22	IGND	Prestressed I-Girder Non-Standard Designs	<a href="#">PDF igndsts1-22.dgn</a>
08-17	IGSK	Shear Key Details for I-Girders	<a href="#">PDF igskstds-17.dgn</a>
08-17	IGTS	Thickened Slab End Details	<a href="#">PDF igtssts1-17.dgn</a>
08-17	MEBR(C)	Minimum Erection & Bracing Requirements	<a href="#">PDF mebcsts1-17.dgn</a>

# Std Brg: 34' Roadway - Prestressed Conc TX-Gdr. Spans

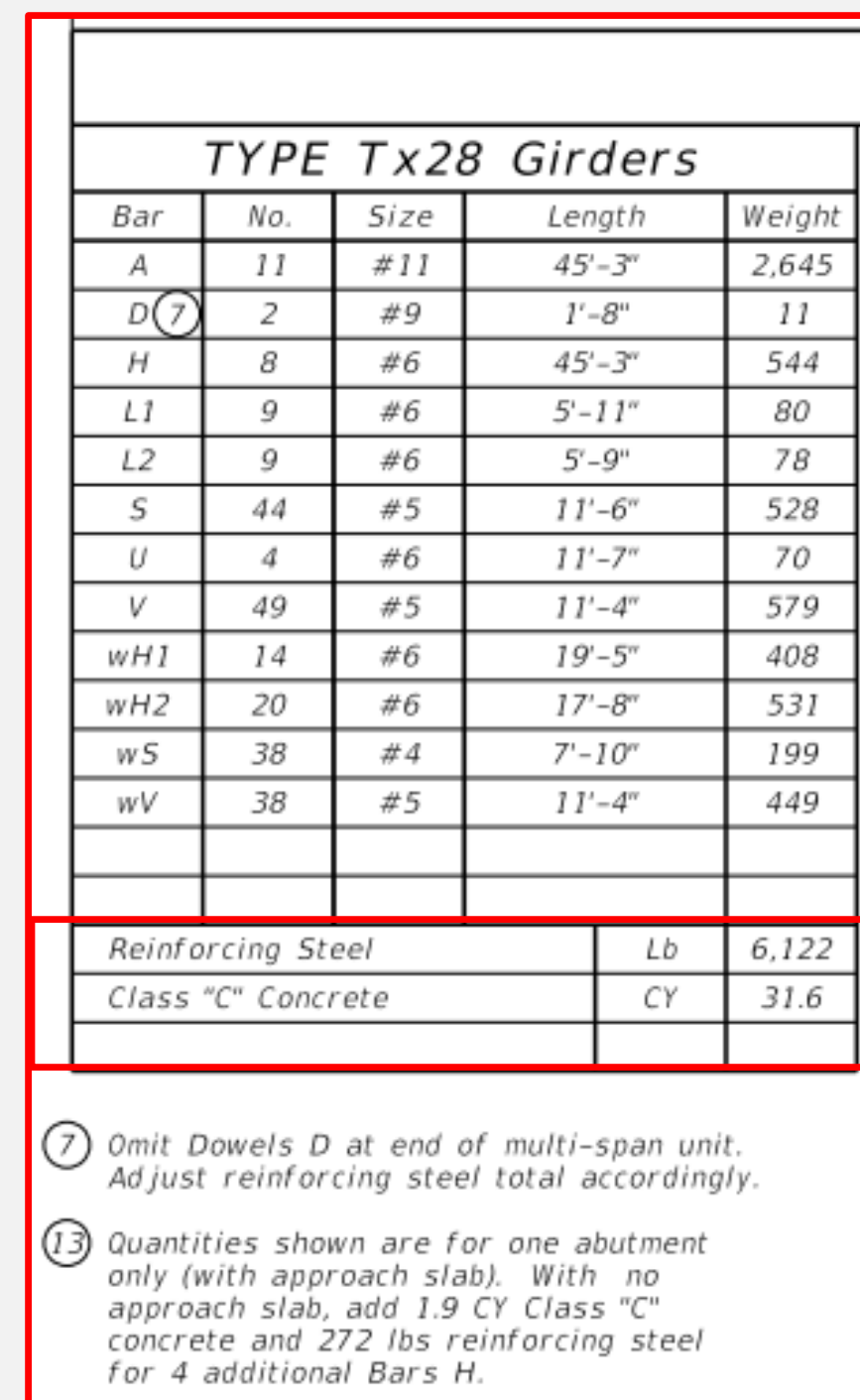


⑤ Fabricator will adjust lengths for girder slopes as required.

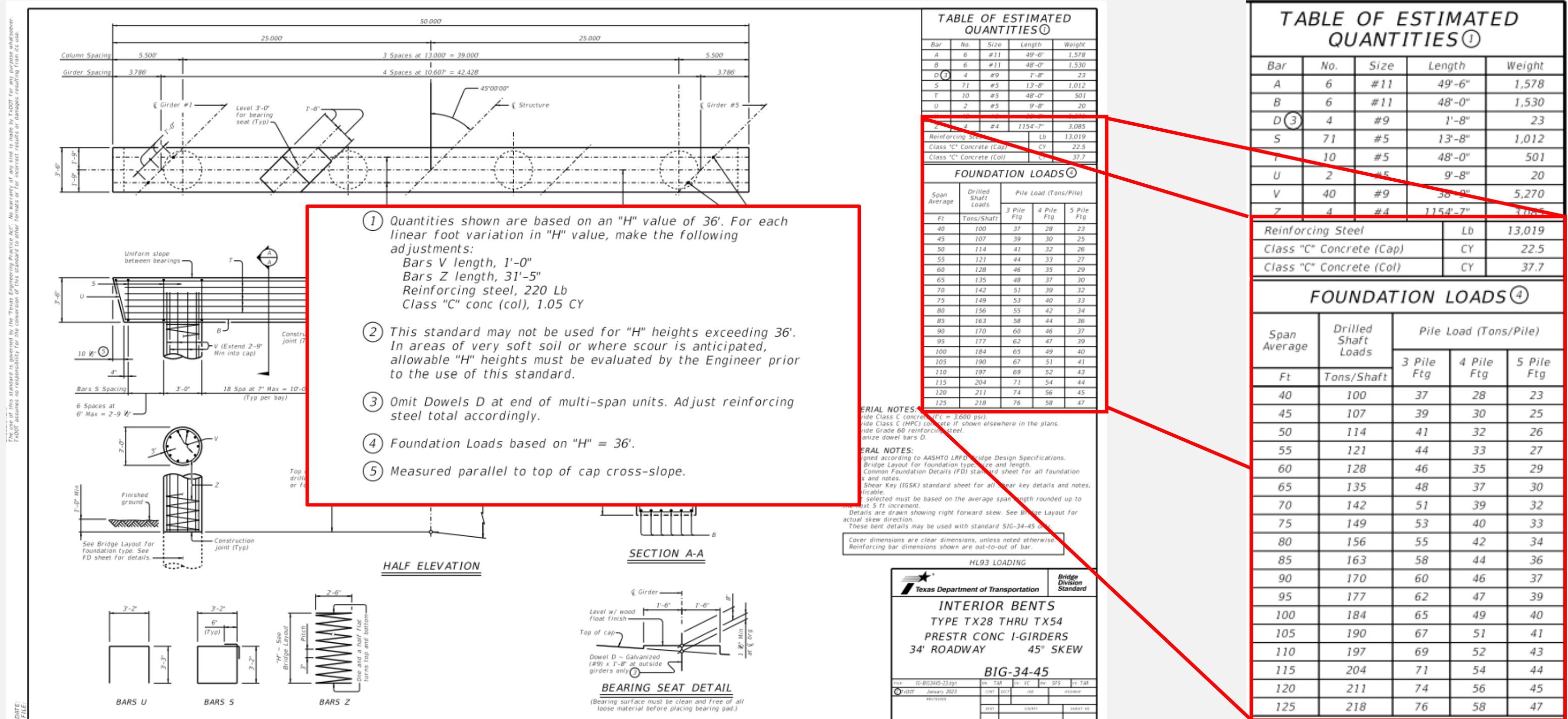
⑥ Reinforcing steel weight is calculated using an approximate factor of 2.3 lbs/SF.



# Std Brg: 34' Roadway - Abutment Details



# Std Brg: 34' Roadway - Interior Bents Details








# Standard Bridge Spreadsheet

Simple easy to use spreadsheet that can “design” any standard bridges in Texas.

Download  
link on the  
standards  
webpage!



Guide To Bridge Standard Drawings		
Provides quick reference information on the following standard drawings:		
Prestressed Concrete Box Beam Bridges		
Prestressed Concrete I-Girder Bridges		
Prestressed Concrete X-Beam Bridges		
Prestressed Concrete Slab Beam Bridges		
Cast-In-Place Concrete Slab Span Bridges		
Steel Beam Bridges		
Rev Date	Subject	File Name
02-25	Guide to Bridge Standard Drawings	 guideste.pdf
01-25	Standard Bridge Spreadsheet	std-brg.xlsm



# Standard Bridge Spreadsheet

- Let's do an example project....

## Standard Bridge Bearing Seat Elevations

This spreadsheet can only be used for bridges supported by the standards.

Designer Initials:

County:

District:

Highway:

Control-Section-Job:

Click here to Clear Project.