

BRIDGE SAMPLE PLANS

Reference: IDM 14 Plan Preparation

The following set of sample bridge plans has been created to illustrate a typical set for designers.

Sheet	Revision Date	Note
Title	02/07/2019	Made changes to the HUC number and to note #11. For more information concerning HUC numbers: https://www.in.gov/idem/nps/2422.htm
Beam Details	04/08/2021	Notes related to handling, storage, and transportation have been removed. INDOT <i>Standard Specifications</i> 707.08 provides requirements for handling and shipping of prestressed members. Project-specific deviations from the <i>Standard Specifications</i> should be included in the contract by Unique Special Provision, and may be accompanied by notes on the plans.
Beam Details	2/15/2022	Design Data notes updated to show strand area and removed reference to ASTM for strands, which is in the <i>Standard Specifications</i> .

INDOT | BRIDGE DESIGN AIDS

BDA 100-01 | FEBRUARY 07, 2019 (REV. MAY 2025)

Beam Details	1/10/2024	<p>This revision removes the tabular beam details sheet. It is the preference of INDOT that the designer does not convey beam information in a tabular form.</p> <p>Updated beam details to include Welded Wire Reinforcement (WWR) instead of conventional shear reinforcement as that is the preferred method for shear reinforcing.</p>
Title	5/2/2025	<p>The title sheet has been updated for bundled and stand-alone projects. The border has been updated to remove the project number.</p> <p>The structure data table has been updated to change "Flowline" to "Invert."</p>

PURPOSE:

The purpose of this drawing is to provide an overview of the project, including project data, design data, project location, and approval signatures.

DESIGNATION	BRIDGE FILE
9999999	057-14-00000
CONTRACT	
B-99999	

1 Match Title Block Text Style

STRUCTURE INFORMATION				
STRUCTURE	TYPE	SPAN AND SKEW	OVER	STATION
057-14-00000	Continuous Composite Prestressed Concrete I-Beam Type II	3 Spans: 38'-0", 46'-0" & 38'-0" Skew: 20° Rt.	Veale Creek	1446+50 Line "A"

2

KIN PROJECT INFORMATION	
DESIGNATION	PROJECT DESCRIPTION
0000000 (LEAD)	TITLE OR BRIEF DESCRIPTION OF ASSOCIATED PROJECT
0000000	TITLE OR BRIEF DESCRIPTION OF ASSOCIATED PROJECT
0000000	TITLE OR BRIEF DESCRIPTION OF ASSOCIATED PROJECT

14

REQUIRED ELEMENTS:

- Project Information Block (Upper Left and Lower Right Corners)
- Structure Information Table
- Designation Number
- Reference Post
- Project Work Description
- Project Location Map:
 - North Arrow and Scale
 - Begin and End Project Callouts
- Traffic/Design Data Table
 - See IDM Fig 14-3C for acceptable values for Design Data Table
- County Location Map
- Latitude and Longitude
- Project Length Table
 - Do not include length of S-lines
 - Do not include length of incidental construction
- Hydrologic Unit Code (Where needed for a waterway permit application, typ. HUC 12)
- Standard Specification Reference
- Signature Block and PE Seal
- Kin Project Information Table (when applicable)
- Owner and LPA Employee in Reponsible Charge (ERC) signatures (LPA Projects Only)

15

Name, Title	Date
Name, Title	Date
Name, Employee in Responsible Charge	Date

INTENDED USE AND DISCLAIMER INFORMATION:

This set of sample plan sheets is provided for illustrative purposes only. The callouts and notes in this sample plan are intended only to show a need for a callout, level of specificity, and its expected appearance. INDOT makes no guarantee of the accuracy of data used for this hypothetical project although every attempt has been made to produce a reasonable design in accordance with the current *Indiana Design Manual*. The Designer must determine specific content of notes for his/her individual project. In the event of a conflict, the policies stated in the current *Indiana Design Manual* and *INDOT CAD Standards Manual* will govern.

INDIANA DEPARTMENT OF TRANSPORTATION



BRIDGE PLANS

Text Height = 0.70"

FOR SPANS OVER 20 FEET

Text Height = 0.37"

ROUTE: SR 57 AT: RP 45+94

4 Text Height = 0.40"

DESIGNATION NO. 9999999

3 Text Height = 0.46"

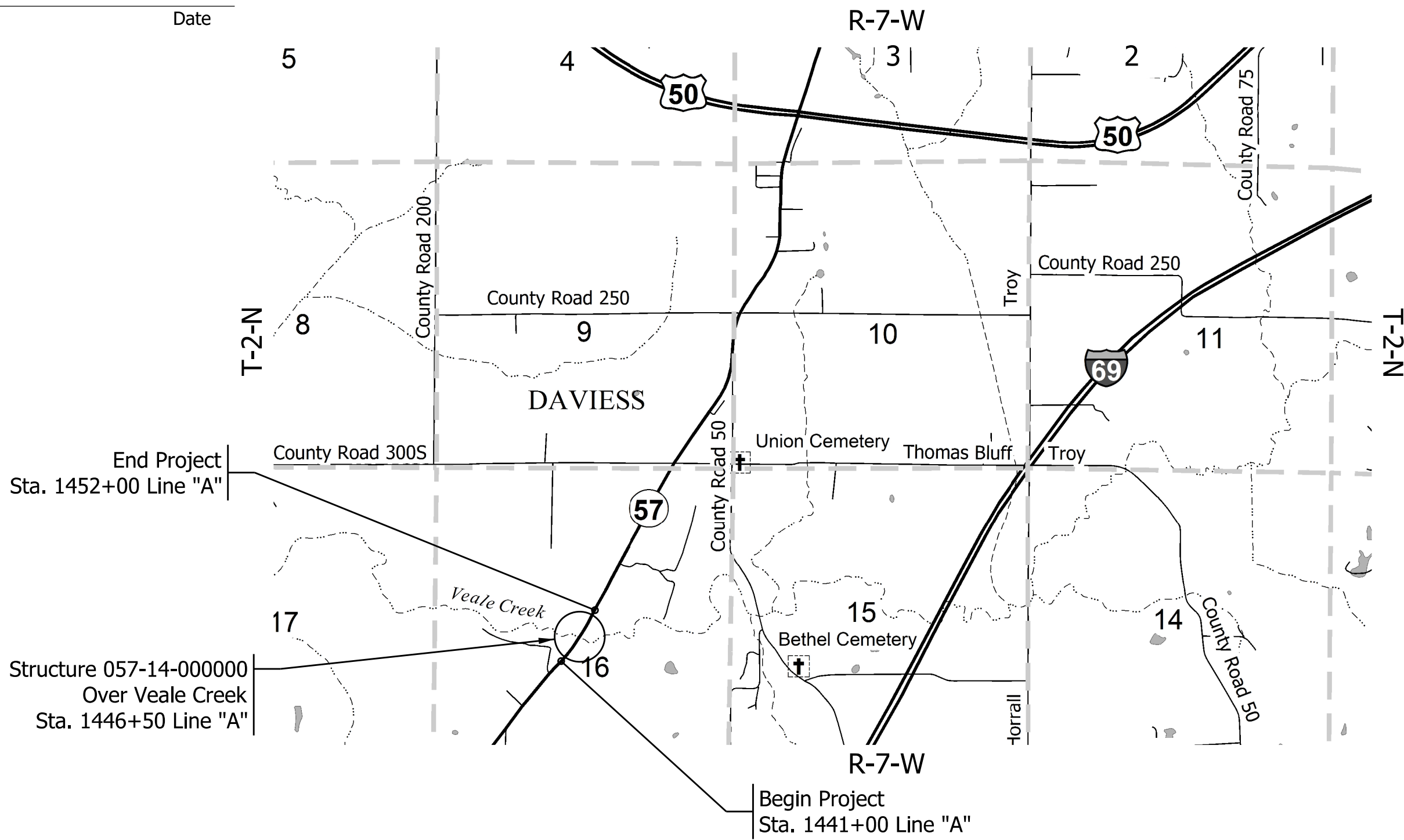
NO ADDITIONAL RIGHT-OF-WAY
REQUIRED FOR THIS PROJECT

This note placed only
when applicable.

Bridge Replacement on SR 57 over Veale Creek
Located 1.94 Miles South of US 50
Section 16, T-2-N, R-7-W, Washington Township, Daviess County

5

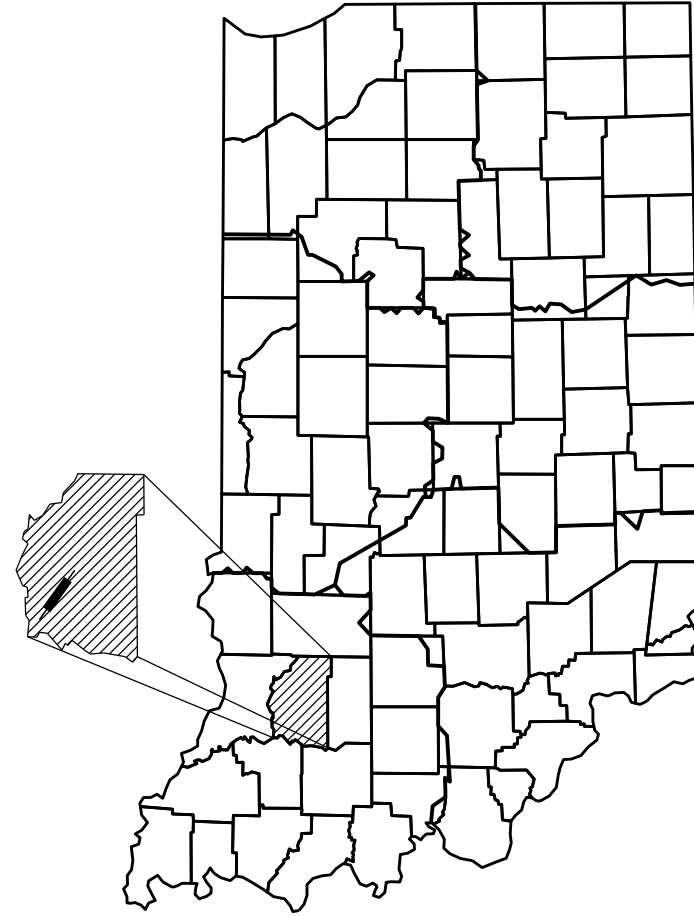
A complete description of the location
for the project must be shown. This
is not the survey legal description.
Location Description: 18 Pt Text



13

Text Style: 14 Pt Text

8



PROJECT LOCATION SHOWN BY
Daviess County

Text Style: 14 Pt Text

9

LATITUDE: 38° 36' 16" LONGITUDE: 87° 11' 39"

Text Style: 14 Pt Text

10

BRIDGE LENGTH: 0.023 MI.
ROADWAY LENGTH: 0.185 MI.
TOTAL LENGTH: 0.208 MI.
MAX. GRADE: 2.04 %

Show lengths to three decimal
places. Do not round.

11

HUC: 051202020907

SCALE: 1" = 2000'

Typical Scales:
1" = 500'
1" = 1000'
1" = 2000'
1" = 4000'
1" = 5000'

6

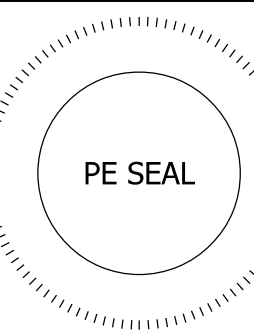
Location Map must be of sufficient enough scope
and appropriate scale to clearly depict the
relation of the project to the area in which it is
being placed.
Location Map Text Callouts: 14 Pt Text
Location Map Labels: 12 Pt Text Min.
Section Labels: 18 Pt Text

Text Style: 14 Pt Text

12

INDIANA DEPARTMENT OF TRANSPORTATION
STANDARD SPECIFICATIONS DATED 20XX
TO BE USED WITH THESE PLANS.

Title Block Text:
Labels: 10 Pt Text
Signature: 12 Pt Text



PLANS
PREPARED BY: Engineer of Record 317-555-1234
PHONE NUMBER
CERTIFIED BY: [Signature] \$SIG DATE\$
DATE
APPROVED
FOR LETTING: INDIANA DEPARTMENT OF TRANSPORTATION DATE

BRIDGE FILE
057-14-000000
DESIGNATION
9999999
SHEET
1 of 31
CONTRACT
B-99999

1

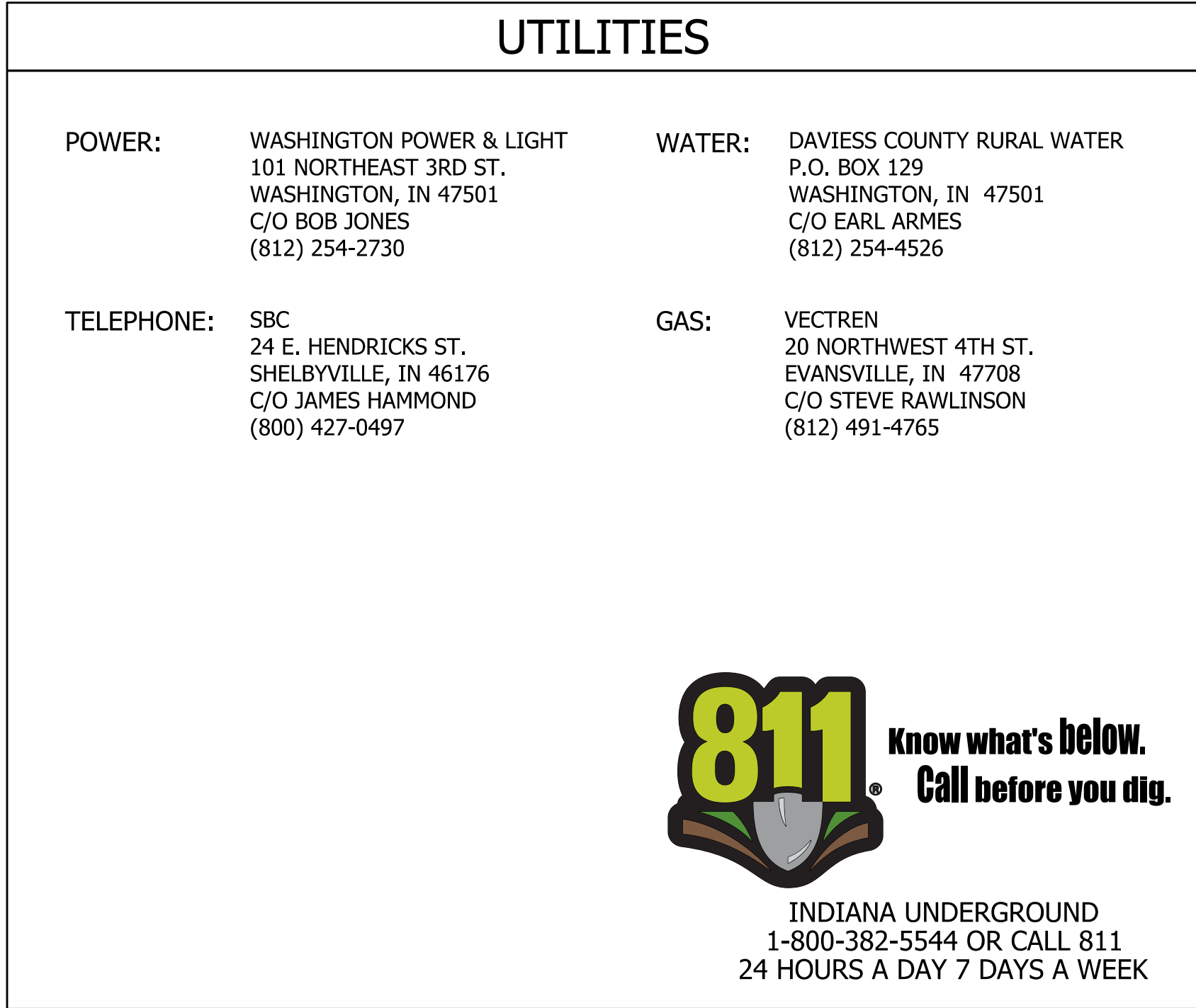
PURPOSE:

The purpose of this Index sheet is to provide a listing of all sheets in the plans, utilities contact information, and a record of revisions to the plans.

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The purpose of this Index sheet is to provide a listing of all sheets in the plans, utilities contact information, and a record of revisions to the plans.

UTILITIES	
POWER:	WASHINGTON POWER & LIGHT 101 NORTHEAST 3RD ST. WASHINGTON, IN 47501 C/O BOB JONES (812) 254-2730
TELEPHONE:	SBC 24 E. HENDRICKS ST. SHELBYVILLE, IN 46176 C/O JAMES HAMMOND (800) 427-0497
WATER:	DAVIESS COUNTY RURAL WATER P.O. BOX 129 WASHINGTON, IN 47501 C/O EARL ARMES (812) 254-4526
GAS:	VECTREN 20 NORTHWEST 4TH ST. EVANSVILLE, IN 47708 C/O STEVE RAWLINSON (812) 491-4765



Note: 811 logo should be included on all plans.

INDEX		
SHEET NO.	DRAWING NO.	SUBJECT
1		TITLE
2		INDEX
3		TYPICAL CROSS SECTIONS
4		TEMPORARY RUNAROUND
5		PLAN AND PROFILE
6		SIGNING AND PAVEMENT MARKING DETAILS
7		SOIL BORINGS
8	C1	LAYOUT
9	C2	GENERAL PLAN
10-11	C3-C4	END BENT NO. 1 AND NO. 4 DETAILS
12-13	C5-C6	PIER NO. 2 AND NO. 3 DETAILS
14	C7	FRAMING PLAN
15-16	C8-C9	BEAM DETAILS
17-18	C10-C11	SUPERSTRUCTURE DETAILS
19	C12	RAILING DETAILS
20	C13	SCREEDS
21	C14	APPROACH SLAB DETAILS
22		BRIDGE SUMMARY
23		ROAD SUMMARY
24-31		CROSS SECTIONS

See IDM 14-3.07(02) for information regarding sequence of sheets when additional sheets are required for a project.

The sheets containing the structural details of the bridge are considered a drawing subset of the entire plan set and are assigned drawing numbers beginning with C (Concrete), S (Steel), or T (Timber) according to the bridge construction type. This format is optional, but recommended to reduce revisions associated with inserting sheets.

Note: Only two sheets of cross sections have been included in this sample plan set to illustrate format.

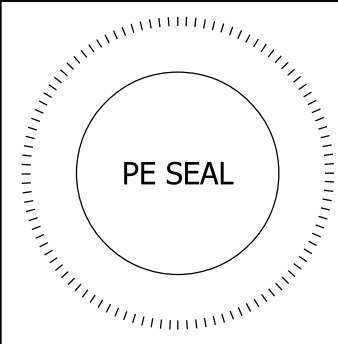
[illegible]

REQUIRED ELEMENTS:

- 1 Sheet Index
- 2 Utilities Information
Name
Address
Contact Person
Contact Phone No.
- 3 Revisions Block
- 4 Signature Block and PE Seal

- ## REQUIRED ELEMENTS:
- 1 Sheet Index
 - 2 Utilities Information
Name
Address
Contact Person
Contact Phone No.
 - 3 Revisions Block
 - 4 Signature Block and PE Seal

Title Block Text:
Labels: 10 Pt Text
Signature: 12 Pt Text



4

RECOMMENDED FOR APPROVAL	<i>Engineer of Record</i>	MM/DD/YY
	DESIGN ENGINEER	DATE

DESIGNED: _____	DRAWN: _____
CHECKED: _____	CHECKED: _____

INDIANA
DEPARTMENT OF TRANSPORTATION

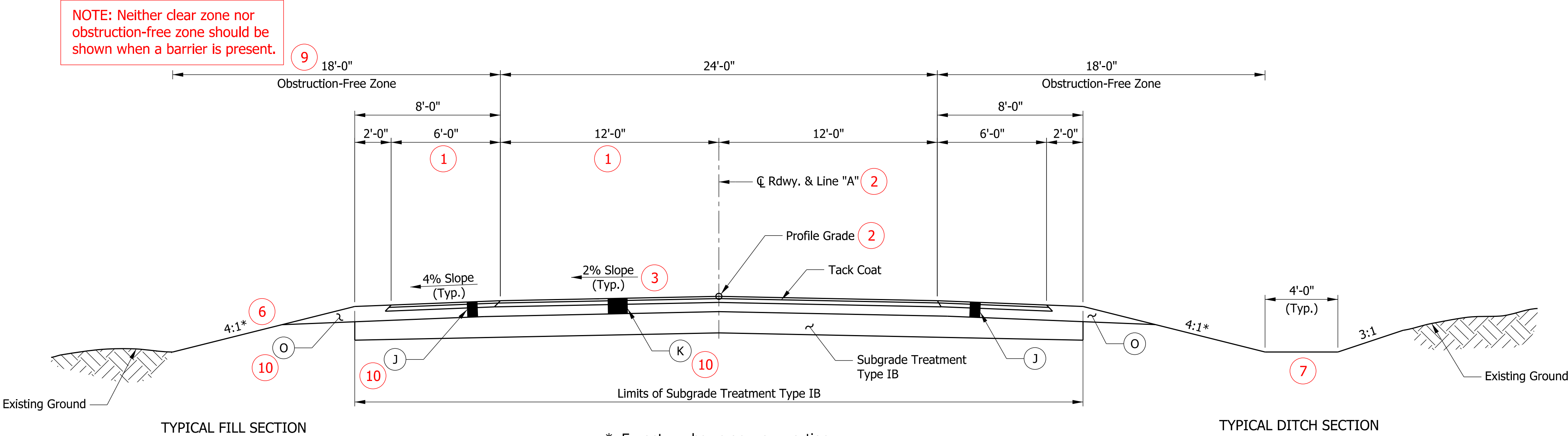
INDEX

SCALE	BRIDGE FILE
AS NOTED	057-14-000000
	DESIGNATION
	9999999

	SHEET
	2 of 31
	CONTRACT
	B-99999

PURPOSE:

The purpose of this drawing is to show materials, details, and dimensions for roadway sections which vary from those included in the Standard Drawings.

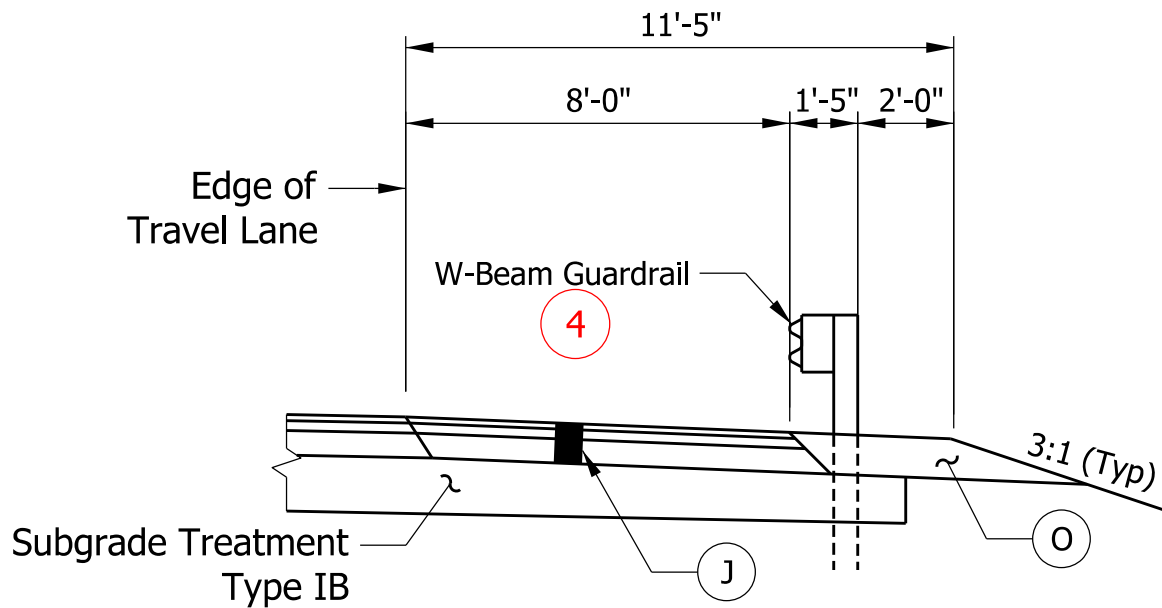


* Except as shown on cross sections.

TYPICAL FULL DEPTH SECTION

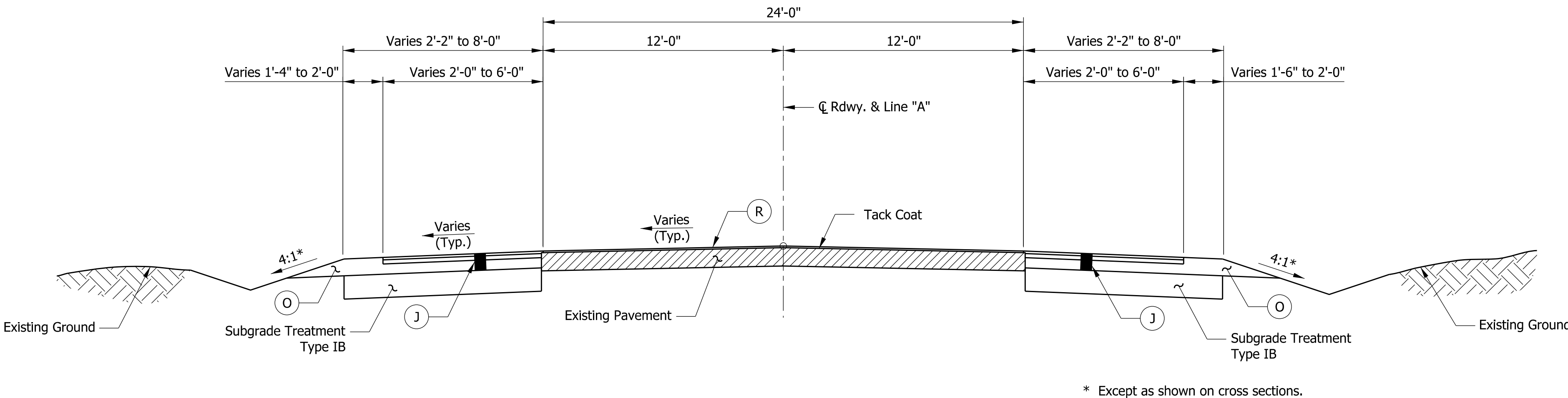
Sta. 1441+00.00 to Sta. 1445+60.28
Sta. 1447+39.72 to Sta. 1452+00.00

Typ. All Sections:
Section Title: 18 Pt Text
Section Sub-Title: 14 Pt Text
Dimensions and Text Callouts: 12 Pt Text



TYPICAL SECTION WITH GUARDRAIL

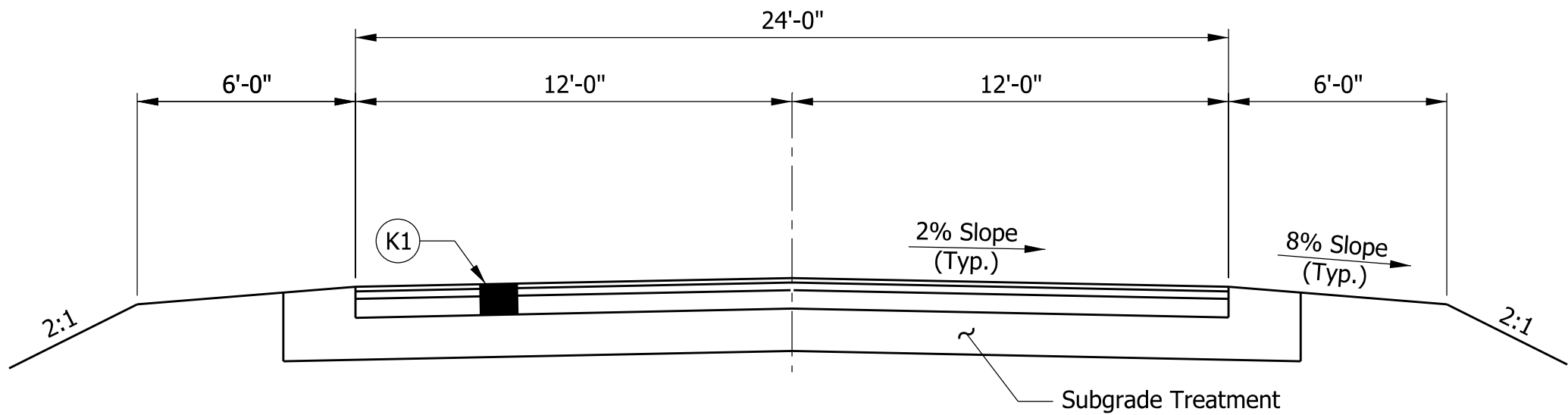
Sta. 1444+80.04 to Sta. 1445+55.04 Left
Sta. 1447+59.28 to Sta. 1449+96.78 Left
Sta. 1443+03.22 to Sta. 1445+40.72 Right
Sta. 1447+44.96 to Sta. 1448+19.96 Right



* Except as shown on cross sections.

TYPICAL INCIDENTAL SECTION

Sta. 1439+00 to Sta. 1441+00
Sta. 1452+00 to Sta. 1454+00



TYPICAL TEMPORARY RUNAROUND SECTION

LEGEND

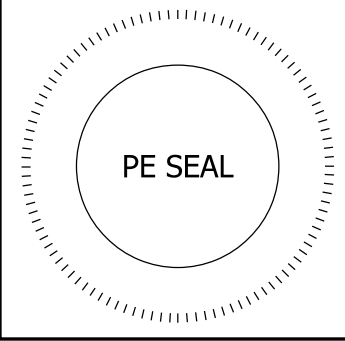
- J 165 lb/yd² QC/QA-HMA, 2, 64, Surface 9.5 mm on 330 lb/yd² QC/QA-HMA, 2, 64, Intermediate 19 mm on 6 in. of Compacted Aggregate Base No. 53
- K 165 lb/yd² QC/QA-HMA, 3, 70, Surface 9.5 mm on 330 lb/yd² QC/QA-HMA, 3, 64, Intermediate 19 mm on 6 in. of Compacted Aggregate Base No. 53
- K1 165 lb/yd² HMA Surface, Type A on 275 lb/yd² HMA Intermediate, Type A on 6 in. of Compacted Aggregate Base No. 53
- O Variable-Depth Compacted Aggregate Base No. 53
- R 165 lb/yd² QC/QA-HMA, 2, 64, Surface 9.5 mm on Transition Milling

REQUIRED ELEMENTS:

- 1 Lane and Shoulder Widths
- 2 Profile Grade, Construction Centerline, paper Relocation Line, and Survey Line Locations
- 3 Cross Slopes
- 4 Curbs and Guardrails
- 5 Sidewalk Locations and Widths
- 6 Side Slopes
- 7 Ditches
- 8 Bicycle Facilities
- 9 Clear Zone (4R projects) or Obstruction-Free Zone (3R Projects)
- 10 Pavement Design
- 11 Legend See IDM Fig. 14-3A for Recommended Plans Legends
- 12 Signature Block and PE Seal

12

Title Block Text:
Labels: 10 Pt Text
Signature: 12 Pt Text



RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED:	DRAWN:	
CHECKED:	CHECKED:	

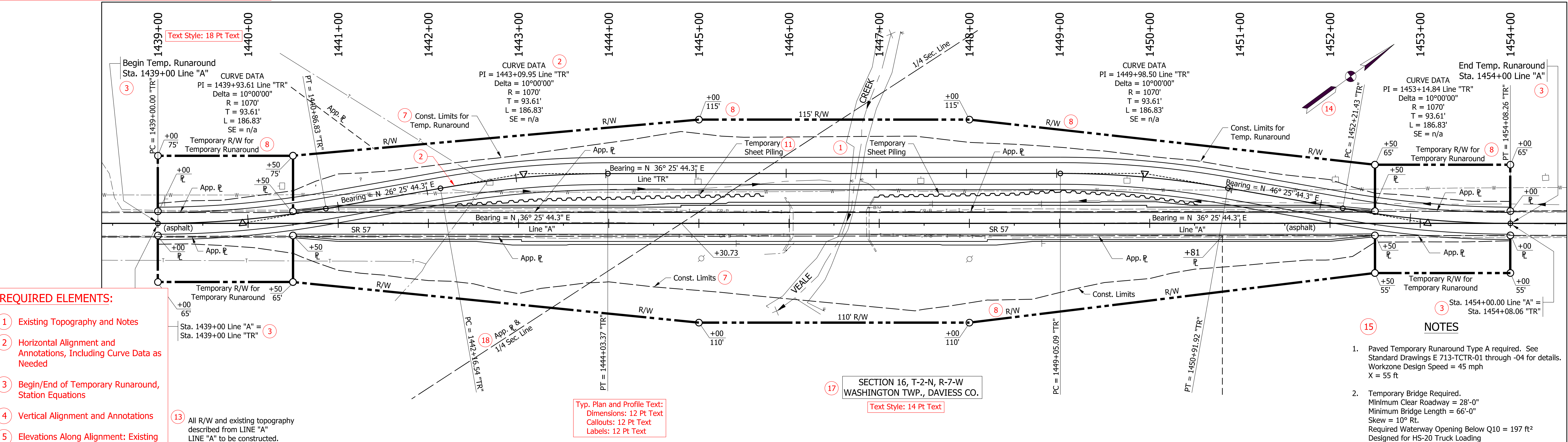
INDIANA
DEPARTMENT OF TRANSPORTATION

TYPICAL CROSS SECTIONS

SCALE	BRIDGE FILE
1/4" = 1'-0"	057-14-000000
	DESIGNATION
	9999999
	SHEET
	3 of 31
	CONTRACT
	B-99999

PURPOSE:

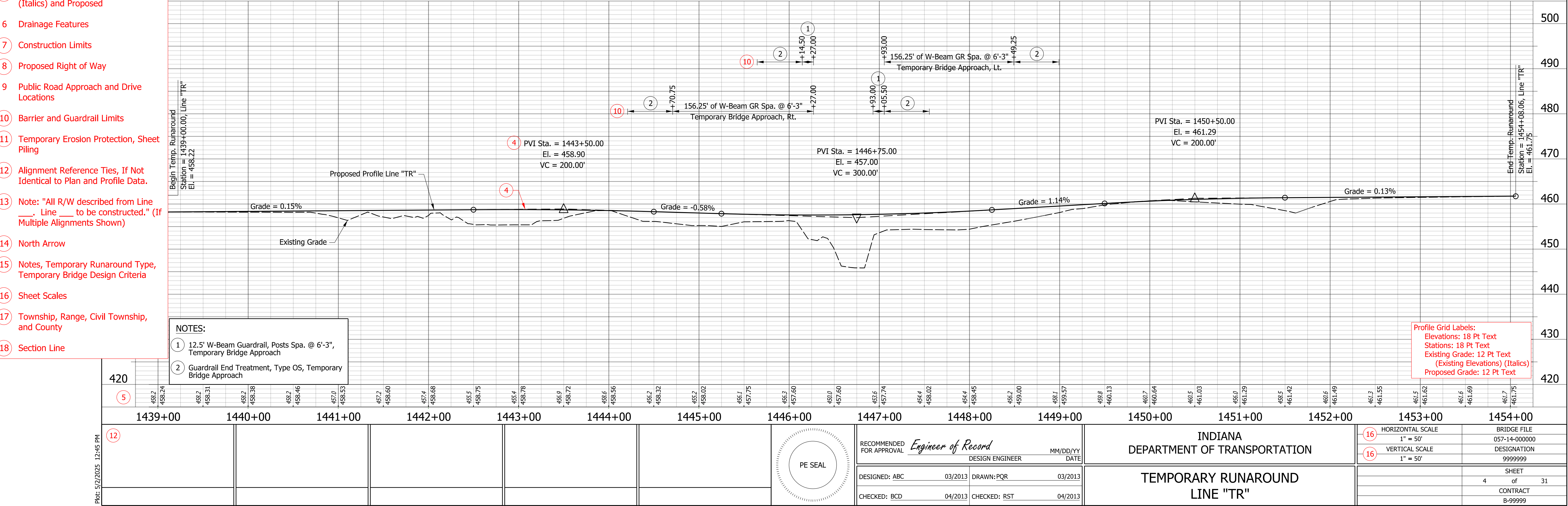
The purpose of this Temporary Runaround sheet is to facilitate Engineering and Construction by providing topo, alignment data, R/W, and profile information for the temporary runaround alignment.



- ## REQUIRED ELEMENTS:
- 1 Existing Topography and Notes
 - 2 Horizontal Alignment and Annotations, Including Curve Data as Needed
 - 3 Begin/End of Temporary Runaround, Station Equations
 - 4 Vertical Alignment and Annotations
 - 5 Elevations Along Alignment: Existing (Italics) and Proposed

- 15** NOTES

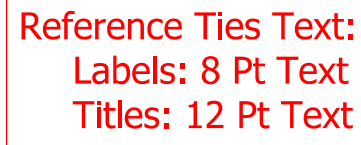
 1. Paved Temporary Runaround Type A required. See Standard Drawings E 713-TCR-01 through -04 for details. Workzone Design Speed = 45 mph
X = 55 ft
 2. Temporary Bridge Required.
Minimum Clear Roadway = 28'-0"
Minimum Bridge Length = 66'-0"
Skew = 10° Rt.
Required Waterway Opening Below Q10 = 197 ft²
Designed for HS-20 Truck Loading



Reference Ties Text:
Labels: 8 Pt Text
Titles: 12 Pt Text

The purpose of the Plan and Profile sheet is to facilitate Engineering and Construction by providing complete topo, alignment data, R/W, and profile information from beginning to end of Project.

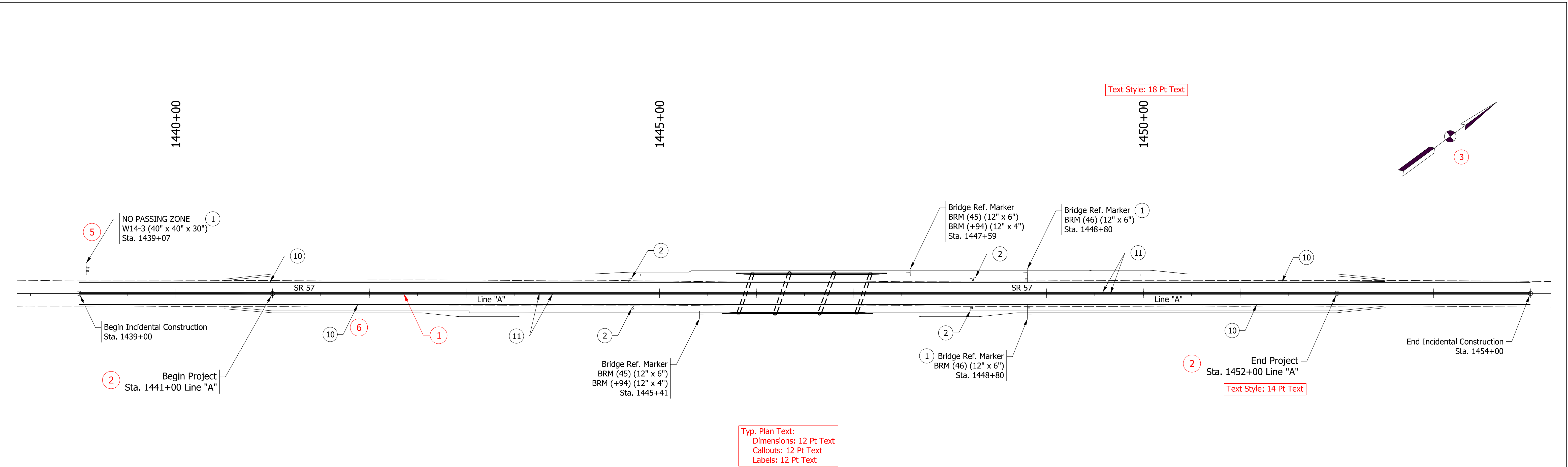
- 1 Existing Topography and Notes
- 2 Horizontal Alignment and Annotations, Including Curve Data as Needed
- 3 Begin/End of Project
- 4 Vertical Alignment and Annotations
- 5 Elevations Along Alignment: Existing (*Italics*) and Proposed
- 6 Drainage Features
- 7 Construction Limits
- 8 Proposed Right of Way
- 9 Public Road Approach and Drive Locations
- 10 Barrier and Guardrail Limits
- 11 Paving Limits
- 12 Permanent Erosion Protection
- 13 Alignment Reference Ties
- 14 Note: "All R/W described from Line ___. Line ___ to be constructed." (If multiple alignments shown.)
- 15 North Arrow
- 16 Sheet Scales
- 17 Existing Property Owners
- 18 Township, Range, Civil Township, and County
- 19 Section Line



Title Block Text:
Labels: 10 Pt Text
Signature: 12 Pt Text

PURPOSE:

The purpose of this drawing is to show permanent signing and pavement markings required.



Typ. Table:
Table Title: Text Height = 0.25"
Table Data: 12 Pt Text

Typ. Plan Text:
Dimensions: 12 Pt Text
Callouts: 12 Pt Text
Labels: 12 Pt Text

SHEET SIGN & POST SUMMARY													
SIGN								SQUARE					
PLAN SHEET NO. / LINE	SIGN LOCATION (STA.)	SIGN CODE	SIGN SIZE (IN x IN)	GROUND - MOUNTED SIGN AREA (ft²)			MOUNTED ON PANEL SIGN, AREA (ft²)	2 1/2" X 2 1/2" - 12 GA. (TYPE 3)			2" X 2" - 12 GA. (TYPE 2)		
								UNREINFORCED ANCHOR			REINFORCED ANCHOR		
				0.080"	0.100"	0.125"	0.080"	POST LENGTH (FT.)			POST LENGTH (FT.)		
								1	2	TOTAL	1	2	TOTAL
A	1439+07 LT	W14-3	48x48x36				3.85				12.0	12.0	24.0
							3.85						24.0

BRIDGE REFERENCE POST MARKER TABLE					
RP/BRP/MP NO.	LOCATION	SIGN CODE	SIZE	POST LENGTH (FT.)	REFERENCE POST (EACH)
A	1445+41 RT	BRM(45) BRM(+94)	12x6 12x4	6	1
A	1447+59 LT	BRM(45) BRM(+94)	12x6 12x4	6	1
A	1448+80 RT	BRM(46)	12x6	6	1
A	1448+80 LT	BRM(46)	12x6	6	1
				24	4

- LEGEND
- 1 Remove existing sign and supports and replace with new sign at same location.
 - 2 Remove existing sign and do not reinstall new sign or supports.
 - 10 Line, thermoplastic, solid, white, 4"
 - 11 Line, thermoplastic, solid, yellow, 4"

PAVEMENT MARKINGS SUMMARY TABLE																			
LOCATION	LINE PAINT		LINE THERMOPLASTIC				LINE THERMOPLASTIC				TRANSVERSE MARKINGS THERMOPLASTIC STOP LINE		TRANSVERSE MARKINGS CROSSHATCH LINE		TRANSVERSE MARKINGS CROSSWALK LINE		PAVEMENT MESSAGE THERMOPLASTIC LANE INDICATION ARROW	PAVEMENT MESSAGE THERMOPLASTIC WORD "ONLY"	SNOWPLOWABLE RAISED PAVEMENT MARKERS
	SOLID WHITE 4 IN.	SOLID YELLOW 4 IN.	SOLID WHITE 4 IN.	SOLID YELLOW 4 IN.	SOLID WHITE 8 IN.	SOLID YELLOW 8 IN.	BROKEN WHITE 4 IN.	BROKEN YELLOW 4 IN.	BROKEN WHITE 8 IN.	BROKEN YELLOW 8 IN.	SOLID WHITE 12 IN.	SOLID WHITE 24 IN.	SOLID YELLOW 24 IN.	SOLID YELLOW 24 IN.	SOLID WHITE 4 IN.	SOLID WHITE 8 IN.			
	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	EACH	EACH	EACH
Sta. 1439+00 to Sta. 1454+00			2,600	2,600															
TOTALS			2,600	2,600															

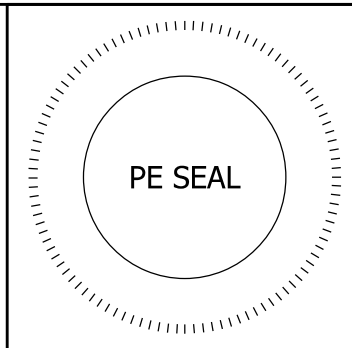
REQUIRED ELEMENTS:

- 1 Horizontal Alignment
- 2 Begin/End of Project
- 3 North Arrow
- 4 Sheet Scale
- 5 Sign Callouts
- 6 Pavement Markings and Callouts
- 7 Sign and Post Summary Table (on separate sheet if large)
- 8 Pavement Marking Summary
- 9 Legend
- 10 Signature Block and PE Seal

Plot: 5/2/2025 12:49 PM

DOTWise\Documents\Standards\Sample Plans\Bridge\0001250\Design\MS\Sheets\Sht Signs Pvmr Markings_30_01.dgn

Title Block Text:
Labels: 10 Pt Text
Signature: 12 Pt Text



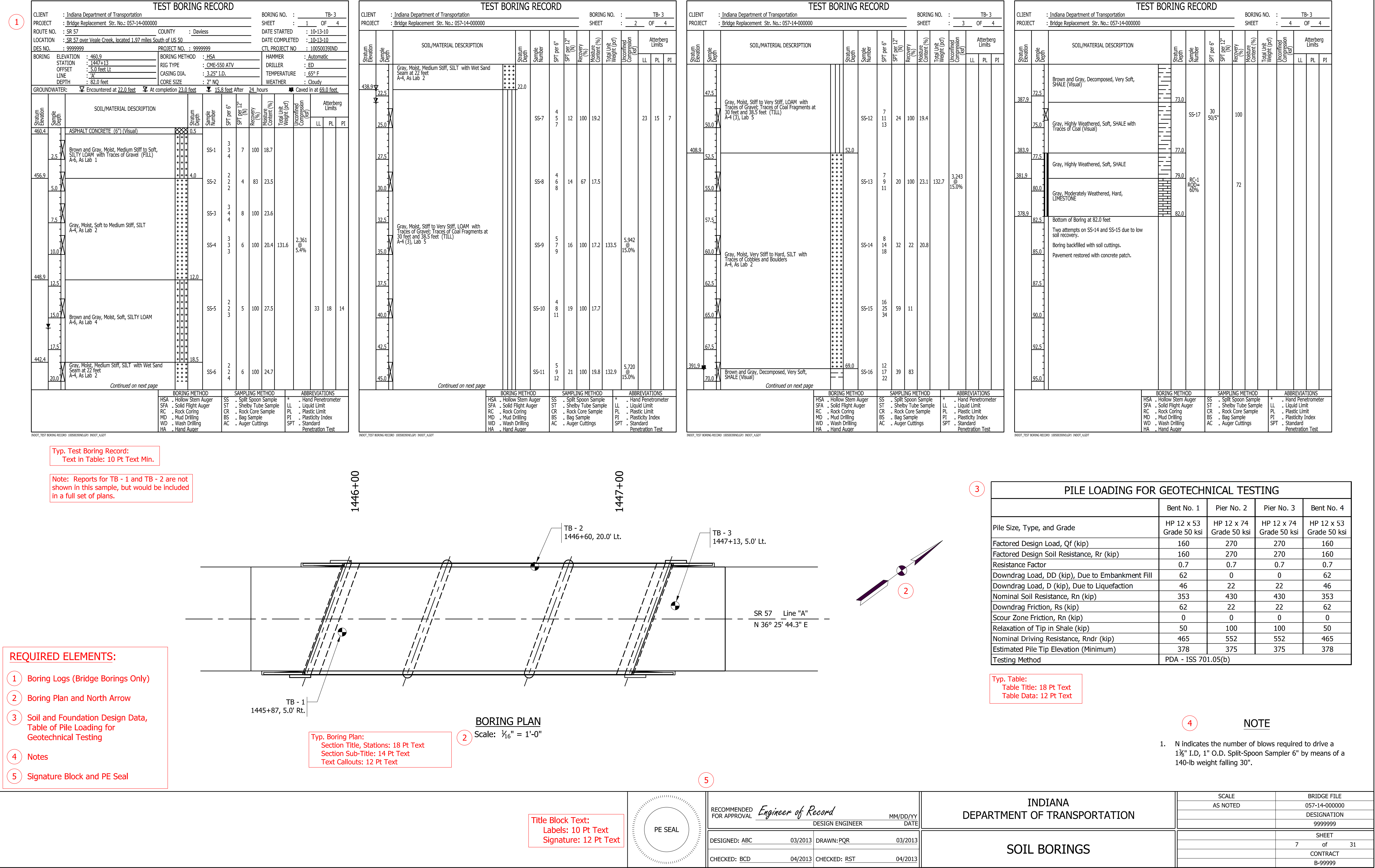
RECOMMENDED FOR APPROVAL	Engineer of Record	MM/DD/YY
DESIGNED:	DRAWN:	DATE
CHECKED:	CHECKED:	

INDIANA DEPARTMENT OF TRANSPORTATION
SIGNING AND PAVEMENT MARKING LINE "A"

4	SCALE 1" = 50'	BRIDGE FILE 057-14-000000
		DESIGNATION 9999999
		SHEET 6 of 31
		CONTRACT B-99999

PURPOSE:

The purpose of this Soil Borings sheet is to show the test borings plotted in the structure area. This drawing is used in determining the type of foundation and its associated allowable loads.



1

Typ. Test Boring Record:
Text in Table: 10 Pt Text Min.

2

Note: Reports for TB - 1 and TB - 2 are not shown in this sample, but would be included in a full set of plans.

3

PILE LOADING FOR GEOTECHNICAL TESTING

	Bent No. 1	Pier No. 2	Pier No. 3	Bent No. 4
Pile Size, Type, and Grade	HP 12 x 53 Grade 50 ksi	HP 12 x 74 Grade 50 ksi	HP 12 x 74 Grade 50 ksi	HP 12 x 53 Grade 50 ksi
Factored Design Load, Qf (kip)	160	270	270	160
Factored Design Soil Resistance, Rr (kip)	160	270	270	160
Resistance Factor	0.7	0.7	0.7	0.7
Downdrag Load, DD (kip), Due to Embankment Fill	62	0	0	62
Downdrag Load, D (kip), Due to Liquefaction	46	22	22	46
Nominal Soil Resistance, Rn (kip)	353	430	430	353
Downdrag Friction, Rs (kip)	62	22	22	62
Scour Zone Friction, Rn (kip)	0	0	0	0
Relaxation of Tip in Shale (kip)	50	100	100	50
Nominal Driving Resistance, Rndr (kip)	465	552	552	465
Estimated Pile Tip Elevation (Minimum)	378	375	375	378
Testing Method	PDA - ISS 701.05(b)			

Typ. Table:
Table Title: 18 Pt Text
Table Data: 12 Pt Text

4

NOTE

1. N indicates the number of blows required to drive a 1½" I.D., 1" O.D. Split-Spoon Sampler 6" by means of a 140-lb weight falling 30".

5

REQUIRED ELEMENTS:

1 Boring Logs (Bridge Borings Only)

2 Boring Plan and North Arrow

3 Soil and Foundation Design Data, Table of Pile Loading for Geotechnical Testing

4 Notes

5 Signature Block and PE Seal

BORING PLAN

Scale: 1/16" = 1'-0"

Typ. Boring Plan:
Section Title, Stations: 18 Pt Text
Section Sub-Title: 14 Pt Text
Text Callouts: 12 Pt Text

Title Block Text:
Labels: 10 Pt Text
Signature: 12 Pt Text

PE SEAL

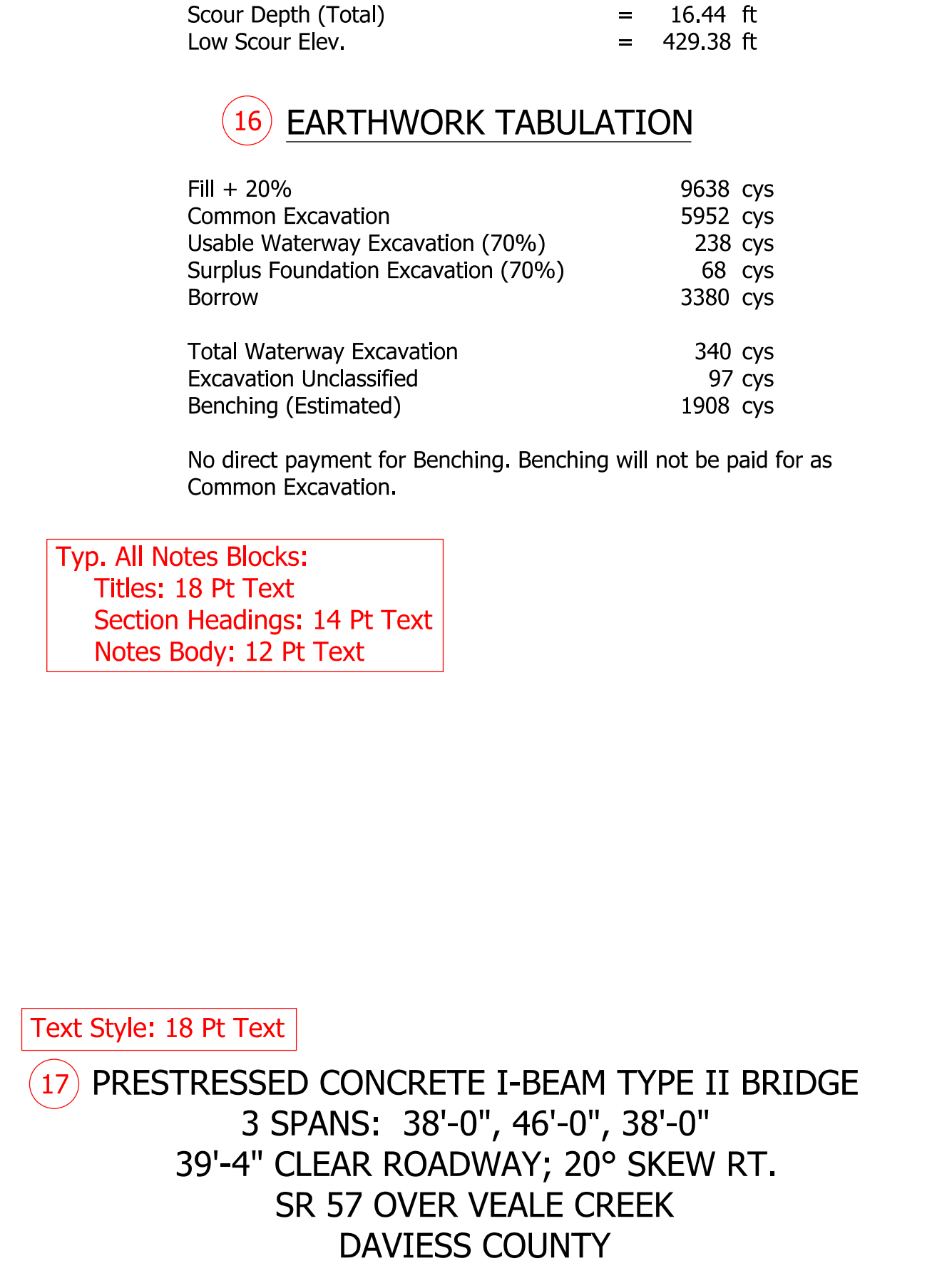
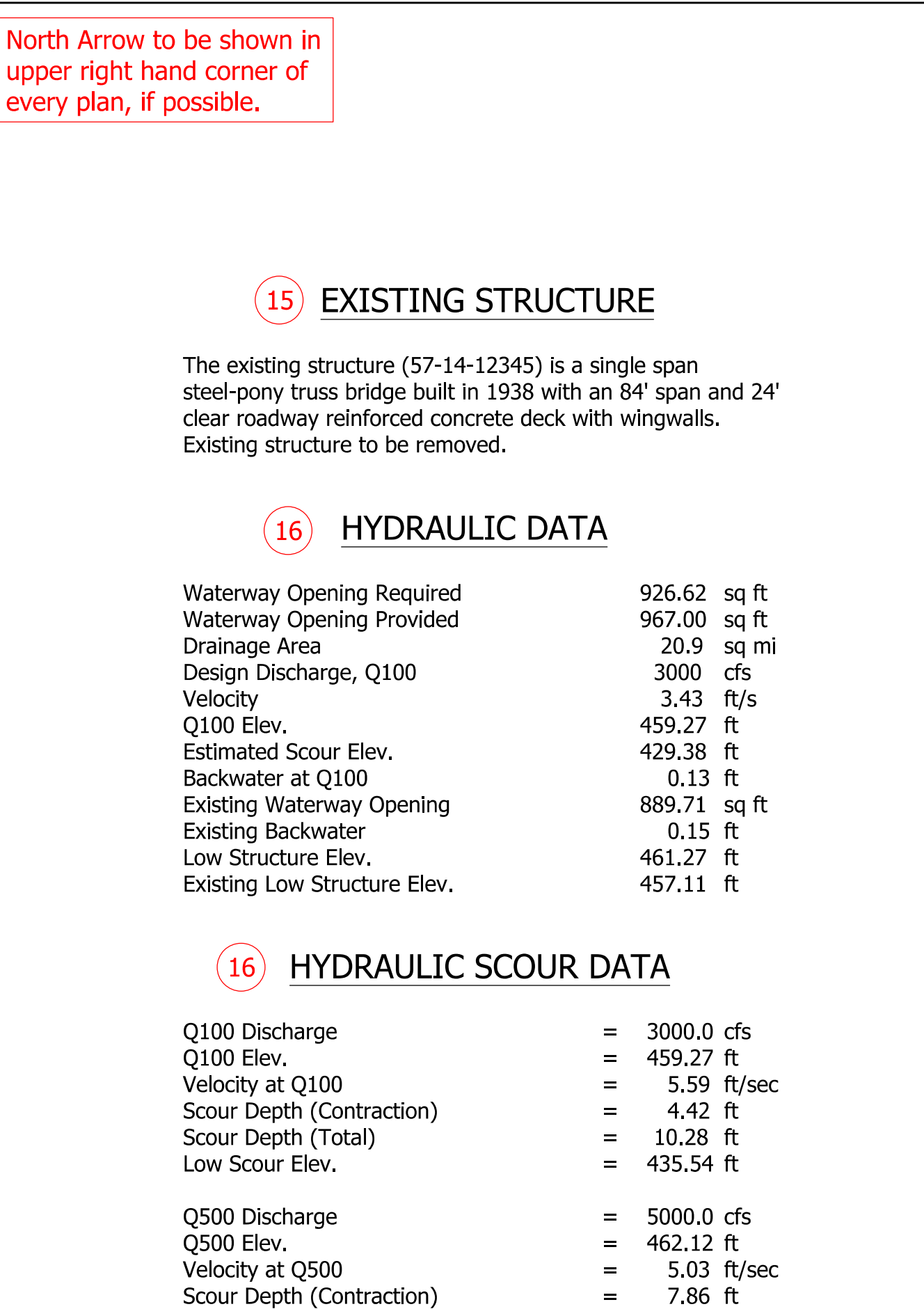
RECOMMENDED FOR APPROVAL
DESIGN ENGINEER
DESIGNED: ABC 03/2013
DRAWN: PQR 03/2013
CHECKED: BCD 04/2013
CHECKED: RST 04/2013

INDIANA DEPARTMENT OF TRANSPORTATION
SOIL BORINGS

SCALE
AS NOTED
BRIDGE FILE
057-14-000000
DESIGNATION
9999999
SHEET
7 of 31
CONTRACT
B-99999

The purpose of the Layout sheet is to show the bridge construction details in relationship to the existing topography, and property owners, as well as hydraulic data and earthwork estimates.

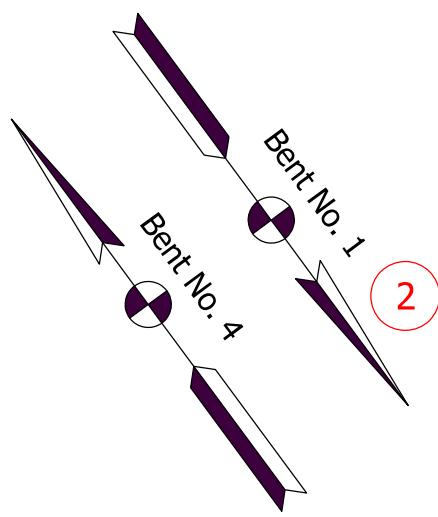
- 1 North Arrow
- 2 Sheet Scales
- 3 Line Designation
- 4 Reference Points, Alignment Ties, If Not Identical to Data on Plan & Profile Sheet
- 5 Existing Topography
- 6 Skew Angle
- 7 Existing Property Lines
- 8 Temporary Runaround (if applicable)
- 9 Property Owners
- 10 Township, Range, Civil Township, and County
- 11 Profile Grade Data
- 12 Begin and End Stations for Structure Limits
- 13 Stations (on profile grid)
- 14 Elevations (Existing and Proposed)
- 15 Indication of Existing Structure
- 16 Hydraulic Data, Hydraulic Scour Data and Earthwork Tabulation
- 17 Project Title
 - Superstructure Type
 - No. of Spans
 - Span Lengths
 - Skew
 - Clear Roadway Width
 - Route/Crossing
 - County
- 18 Existing Contours at 1' with Labels at 5'



Reference Ties Text:
Labels: 8 Pt Text
Titles: 12 Pt Text

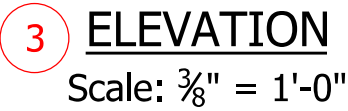
Title Block Text:
Labels: 10 Pt Text
Signature: 12 Pt Text

The purpose of this End Bent Details sheet is to show physical dimensions, reinforcement and pertinent information necessary for construction of end bent(s).



5	Typ. Table: Table Title: 18 Pt Text Table Data: 12 Pt Text				
	TOP OF PILE ELEVATIONS				
	1	2	3	4	5
Bent No. 1	461.39	461.58	461.72	461.51	461.30
Bent No. 4	461.54	461.74	461.94	461.76	461.58

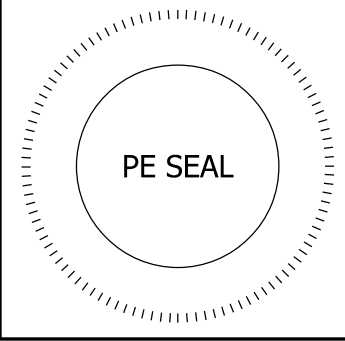
Typ. All Views and Sections:
Section Title: 18 Pt Text
Section Sub-Title: 14 Pt Text
Dimensions and Text Callouts: 12 Pt Text



- ## REQUIRED ELEMENTS:
- 1 Plan
End Bent Plan
Piling Plan
Footling Plan
 - 2 North Arrow
 - 3 Elevation Showing Reinforcing
 - 4 Sections as Necessary
 - 5 Table of Top of Pile Elevations (Method A Attachment) or Table of Beam Seat Elevations (Method B Attachment)
 - 6 Notes
 - 7 Signature Block and PE Seal

(

1. For Section A-A, Section B-B, and Section C-C, see Drawing C4.
2. For Reinforcing Bar Notes, see Standard Drawing E 703-BRST-01.
3. All reinforcing bars in end bents shall be epoxy-coated.
4. All reinforcement extending below pavement ledge and in the wing is billed with the end bent.
5. Concrete Class C is billed with the superstructure.
6. For Backfill Placement, see Standard Drawing E 211-BFL-04.



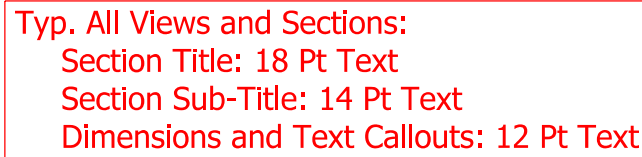
RECOMMENDED FOR APPROVAL	<i>Engineer of Record</i>		MM/DD/YY
	DESIGN ENGINEER		DATE
DESIGNED: ABC	03/2013	DRAWN: PQR	03/2013
CHECKED: BCD	04/2013	CHECKED: RST	04/2013

INDIANA
DEPARTMENT OF TRANSPORTATION

END BENT NO. 1 AND NO. 4 DETAILS

SCALE		BRIDGE FILE	
AS NOTED		057-14-000000	
		DESIGNATION	
		9999999	
DRAWING		SHEET	
C3	of	C14	10 of 31
		CONTRACT	
		B-999999	

The purpose of this End Bent Details sheet is to show additional details necessary for construction and Bill of Materials for end bent(s).



1 SECTION A-A
Scale: $\frac{3}{4}" = 1'-0"$



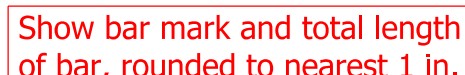
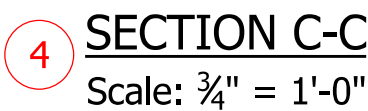
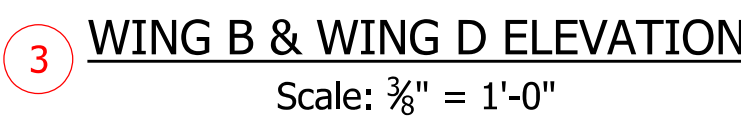
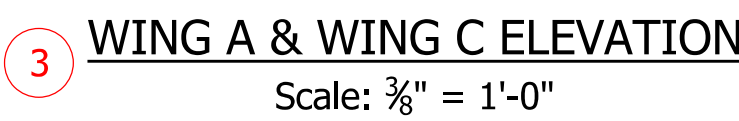
When the construction is to be phased, Bills of Materials should be separated by phase.

REQUIRED ELEMENTS:

- 1 End Bent Section Between Beams
- 2 End Bent Section Through Beam
- 3 Wing Elevation
- 4 Wing Section
- 5 Reinforcing Bar Bending Diagrams
- 6 Bill of Materials
- 7 Anchor Plate Detail When Required
- 8 Notes
- 9 Signature Block and PE Seal

8 NOTES

1. For End Bent Plan and Elevation, locations of Section A-A, Section B-B, and Section C-C, see Drawing C3.
2. For Reinforcing Bar Notes, see Standard Drawing E 703-BRST-01.
3. All reinforcing bars in end bents shall be epoxy-coated.
4. All reinforcement extending below pavement ledge and in the wing is billed with the end bent.
5. Concrete Class C is billed with the superstructure.
6. For Pavement Ledge Details, see Drawing C14.
7. For Backfill Placement, see Standard Drawing E 211-BFLL-04.

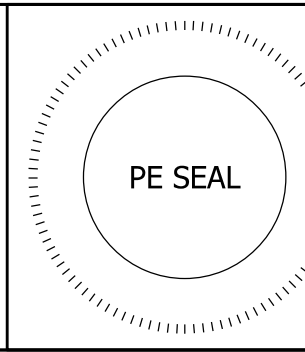


Typ. All Bar Bending Diagrams:
 Title: 18 Pt Text
 Bar Mark Title: 14 Pt Text
 Dimensions and Text Callouts: 12 Pt Text
 See IDM 405-2.0 for guidance regarding
 detailing reinforcing steel.



9

Title Block Text:
Labels: 10 Pt Text
Signature: 12 Pt Text



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	DESIGN ENGINEER		DATE
DESIGNED: ABC	03/2013	DRAWN: PQR	03/2013
CHECKED: BCD	04/2013	CHECKED: RST	04/2013

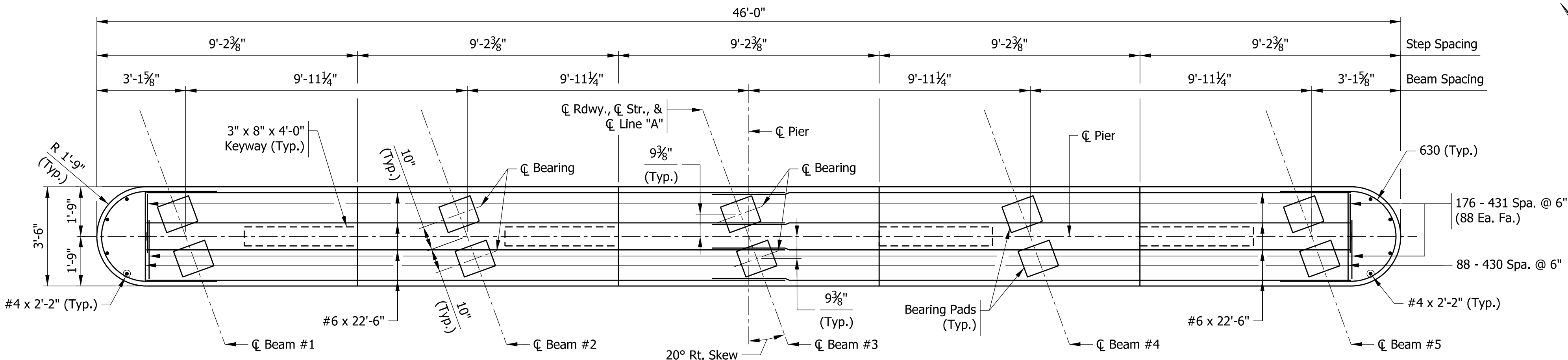
INDIANA
DEPARTMENT OF TRANSPORTATION

END BENT NO. 1 AND NO. 4 DETAILS

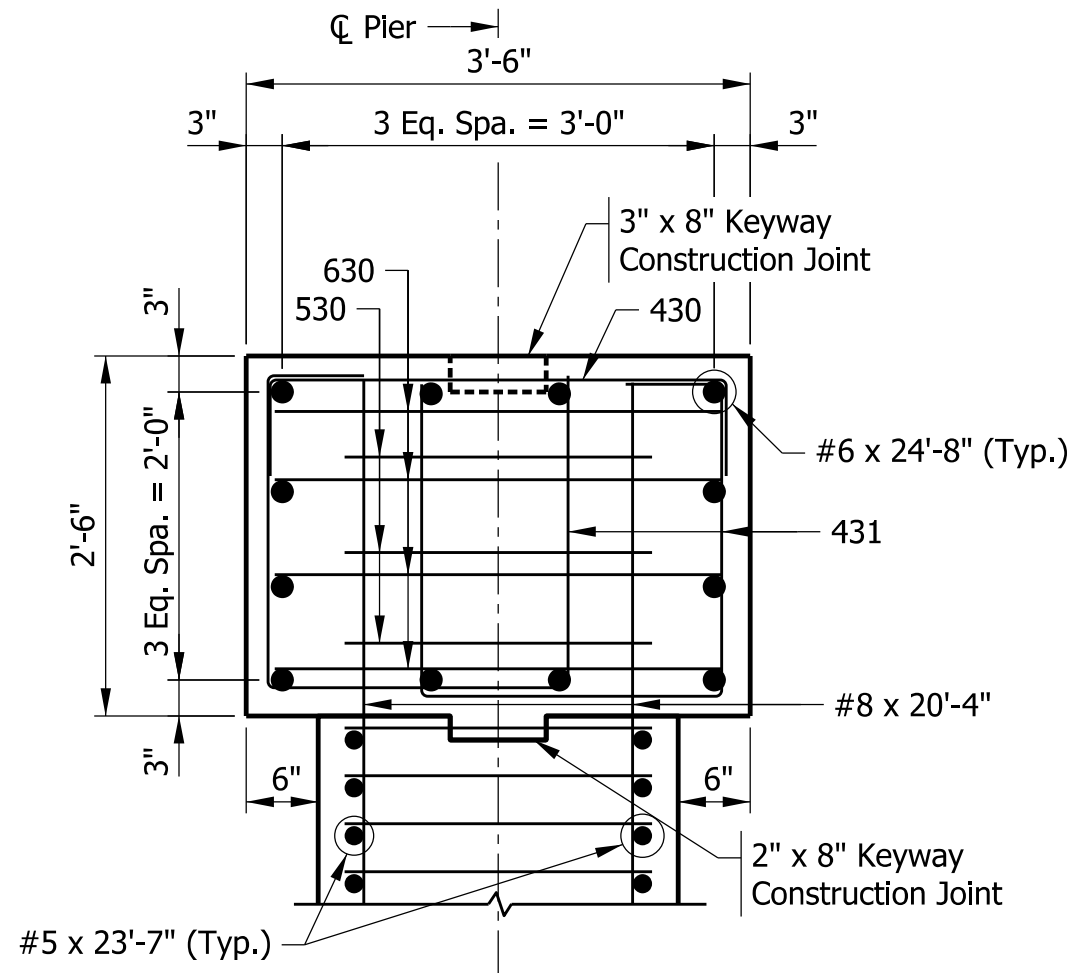
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AS NOTED		057-14-000000	
		DESIGNATION	
		9999999	
DRAWING		SHEET	
C4	of C14	11	of 31
		CONTRACT	
		B-999999	

PURPOSE:

The purpose of this Pier Details sheet is to show the pier dimensions, reinforcement, and pertinent information necessary for construction.

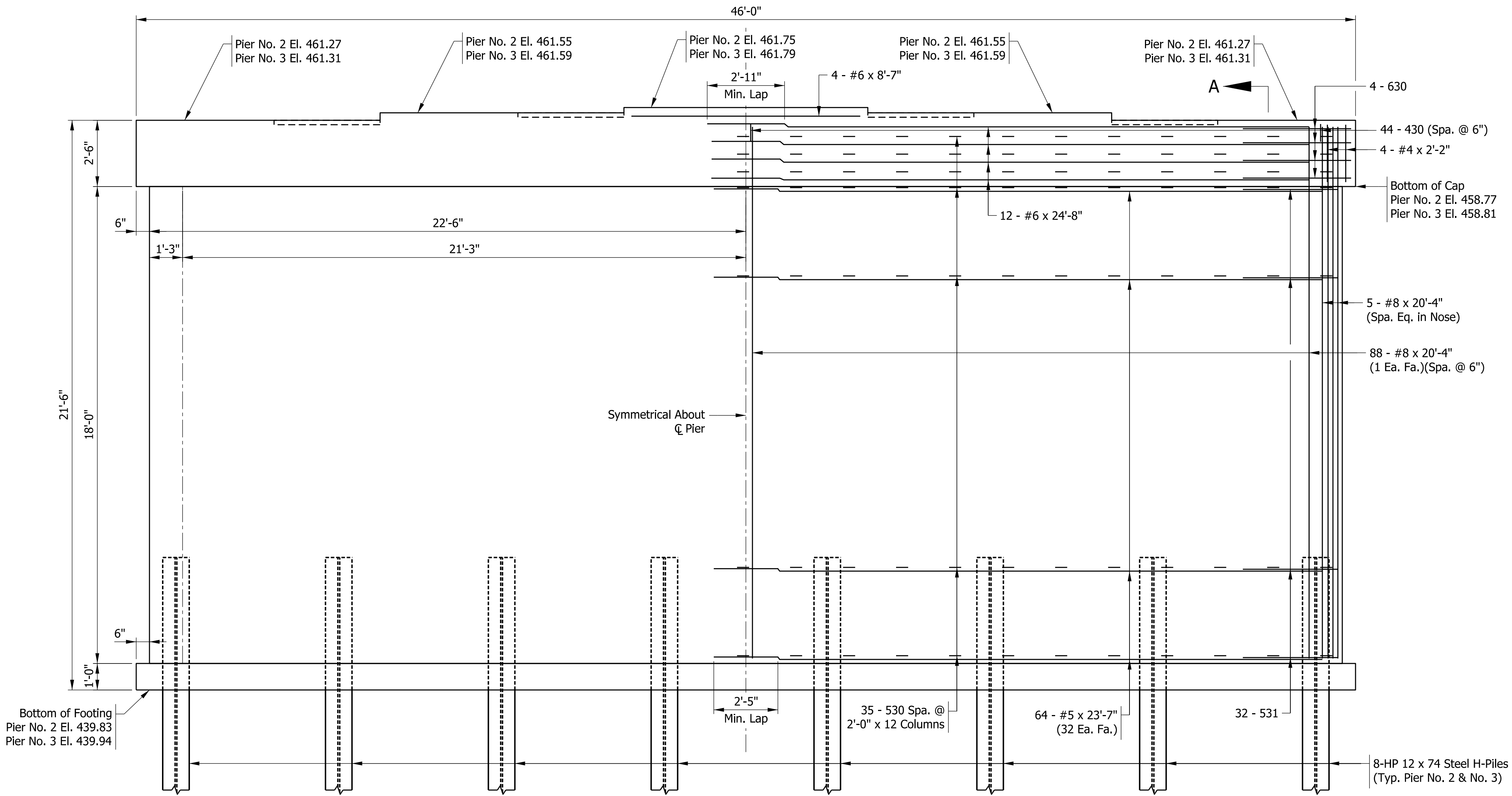


2 PLAN
Scale: $\frac{3}{8}$ " = 1'-0"

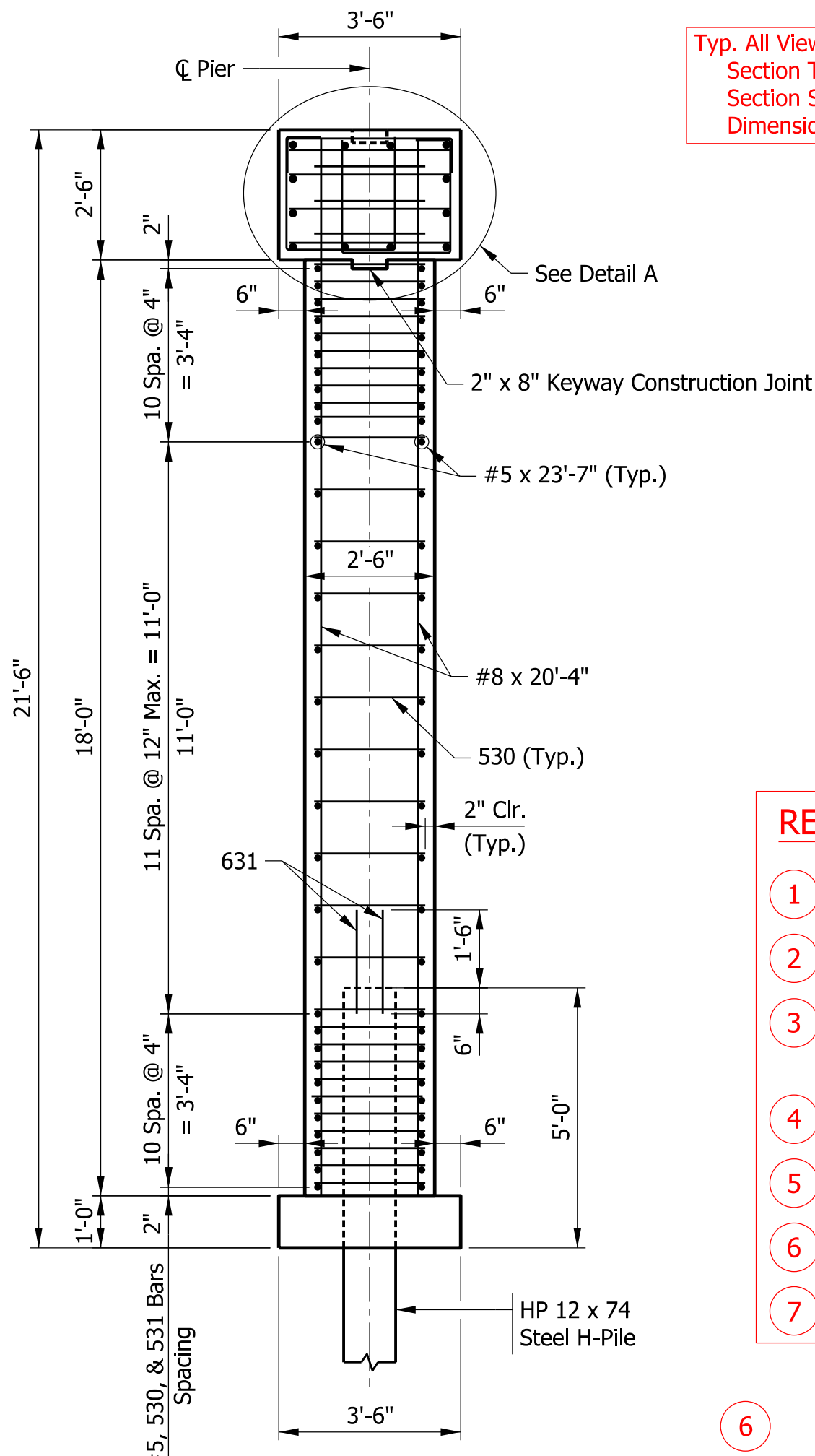


5 DETAIL A
Scale: $\frac{3}{4}$ " = 1'-0"

Typ. All Views and Sections:
Section Title: 18 Pt Text
Section Sub-Title: 14 Pt Text
Dimensions and Text Callouts: 12 Pt Text



3 ELEVATION
Scale: $\frac{3}{8}$ " = 1'-0"



4 SECTION A-A
Scale: $\frac{3}{8}$ " = 1'-0"

REQUIRED ELEMENTS:

- 1 North Arrow
- 2 Cap Plan
- 3 Elevation showing Dimensions and Reinforcing Steel
- 4 Vertical Sections as Needed
- 5 Cap Section
- 6 Notes
- 7 Signature Block and PE Seal

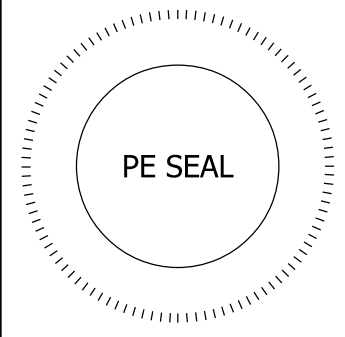
6 NOTES

1. For General Notes, see Drawing C2.
2. For Reinforcing Bar Notes, see Standard Drawing E 703-BRST-01.
3. For Bill of Materials, see Drawing C6.

Plot: 5/2/2025 12:57 PM

DOTWise\Documents\Standards\Sample Plans\Bridge\0001250\Design\MS\Sheets\Sht Pier No 2 and 3_01.dgn

Title Block Text:
Labels: 10 Pt Text
Signature: 12 Pt Text



RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: ABC	03/2013	DRAWN: PQR
CHECKED: BCD	04/2013	CHECKED: RST

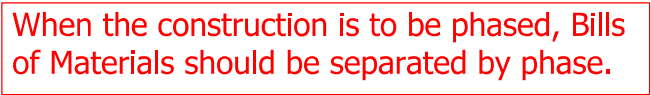
INDIANA
DEPARTMENT OF TRANSPORTATION

PIER NO. 2 AND NO. 3 DETAILS

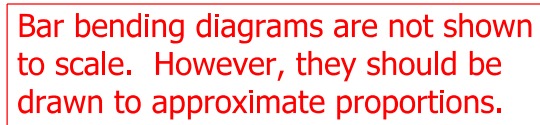
SCALE	BRIDGE FILE
AS NOTED	057-14-000000
	DESIGNATION
	9999999
DRAWING	SHEET
C5 of C14	12 of 31
	CONTRACT
	B-99999

The purpose of this Pier Details sheet is to show additional details necessary for construction and Bill of Materials for piers.

The purpose of this Pier Details sheet is to show additional details necessary for construction and Bill of Materials for piers.



Typ. All Views and Sections:
 Section Title: 18 Pt Text
 Section Sub-Title: 14 Pt Text
 Dimensions and Text Callouts: 12 Pt Text



Show bar mark and total length of bar, rounded to nearest 1 in.

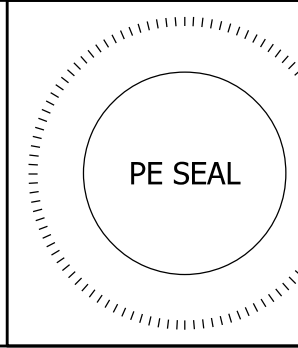
Typ. All Bar Bending Diagrams:
 Title: 18 Pt Text
 Bar Mark Title: 14 Pt Text
 Dimensions and Text Callouts: 12 Pt Text
 See IDM 405-2.0 for guidance regarding
 detailing reinforcing steel.



MISCELLANEOUS	
Pile, Steel H-Pile 12 x 74, 7 @ 70'-0" (Pier No. 2)	490 Lft
Pile, Steel H-Pile 12 x 74, 8 @ 70'-0" (Pier No. 3)	560 Lft
Pile Shoe, 8 (Steel H-Pile 12 x 74)	8 Ea
Test Pile, Dynamic, Production, 1 @ 80 Lft (Pier No. 2)	80 Lft
Dynamic Pile Load Test (Pier No. 2)	1 Each
Test Pile, Dynamic, Restrike (Pier No. 2)	1 Each

- 1 North Arrow
- 2 Footing Plan
- 3 Pile Plan
- 4 Pile Connection Detail
- 5 Reinforcing Bar Bending Diagrams
- 6 Bill of Materials
- 7 Notes
- 8 Signature Block and PE Seal

1. For General Notes, see Drawing C2.
2. For Reinforcing Bar Notes, see Standard Drawing E 703-BRST-01.



RECOMMENDED FOR APPROVAL	<i>Engineer of Record</i>		MM/DD/YY
	DESIGN ENGINEER		DATE
DESIGNED: ABC	03/2013	DRAWN: PQR	03/2013
CHECKED: BCD	04/2013	CHECKED: RST	04/2013

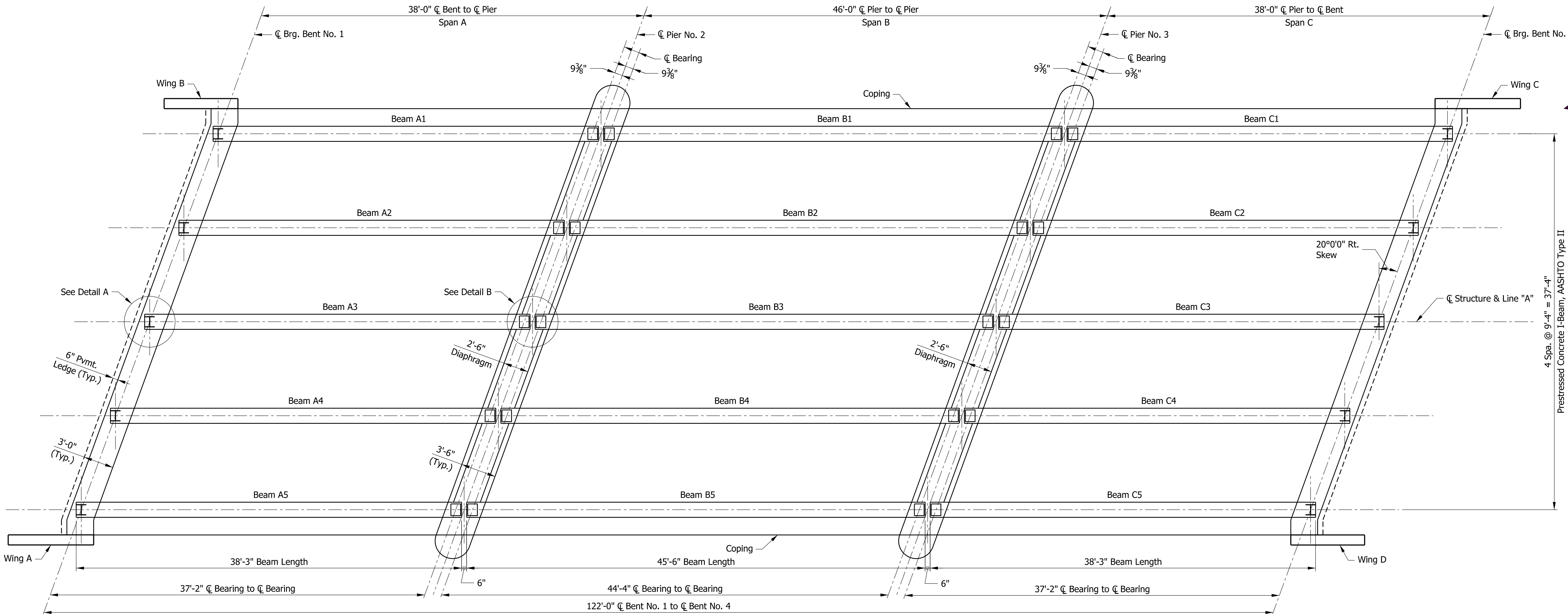
INDIANA
DEPARTMENT OF TRANSPORTATION

PIER NO. 2 AND NO. 3 DETAILS

SCALE	BRIDGE FILE
AS NOTED	057-14-000000
	DESIGNATION
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DRAWING	SHEET
C6 of C14	13 of 31
	CONTRACT
	B-999999

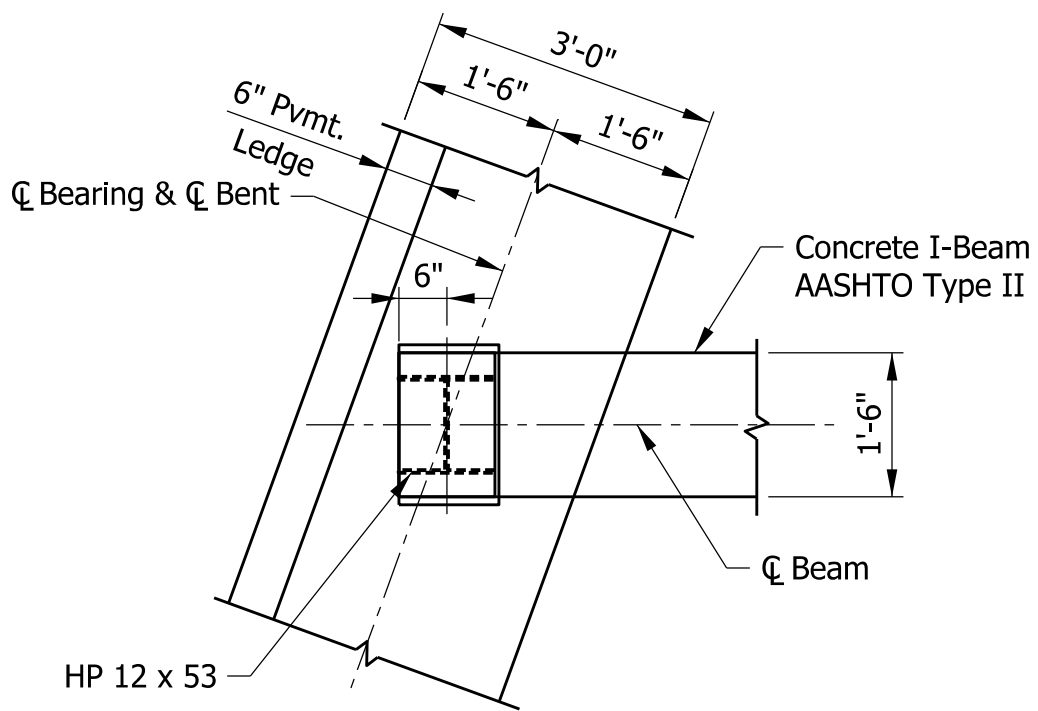
PURPOSE:

The purpose of this Framing Plan sheet is to provide all necessary tie-in dimensions and beam end details as required.

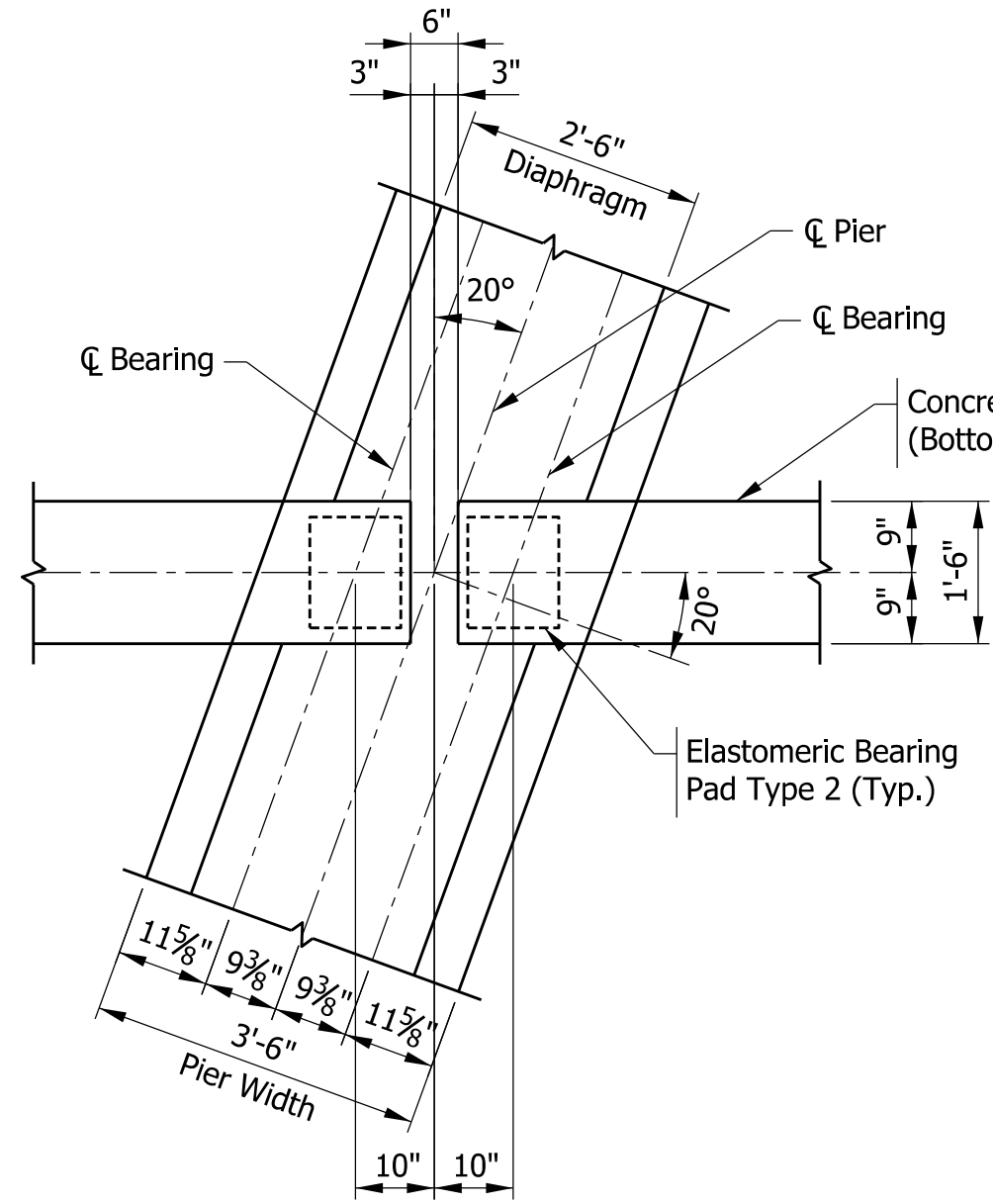


Typ. All Views and Sections:
Section Title: 18 Pt Text
Section Sub-Title: 14 Pt Text
Dimensions and Text Callouts: 12 Pt Text

2 FRAMING PLAN
Scale: $\frac{3}{16}$ " = 1'-0"



3 DETAIL A
BEARING SEAT ON END BENT
Scale: $\frac{1}{2}$ " = 1'-0"



4 DETAIL B
BEARING SEAT ON PIER
Scale: $\frac{1}{2}$ " = 1'-0"

REQUIRED ELEMENTS:

- 1 North Arrow
- 2 Framing Plan
- 3 Beam Bearing Seat Detail at End Bent
- 4 Beam Bearing Seat Detail at Pier
- 5 Notes
- 6 Signature Block and PE Seal

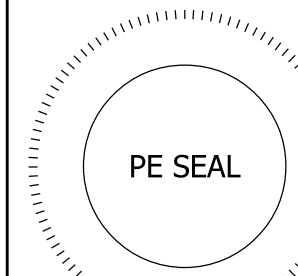
5 NOTES

1. For General Notes, see Drawing C2.
2. For Beam Details, see Drawings C8 and C9.
3. For Bearing Assembly Details, see Drawing C9.

Plot: 5/2/2025 12:59 PM

DOTWise\Documents\Standards\Sample Plans\Bridge\0001250\Design\MS\Sheets\Sht Framing Plan.dgn

Title Block Text:
Labels: 10 Pt Text
Signature: 12 Pt Text



RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
<i>Engineer of Record</i>		
DESIGNED: ABC	03/2013	DRAWN: PQR 03/2013
CHECKED: BCD	04/2013	CHECKED: RST 04/2013

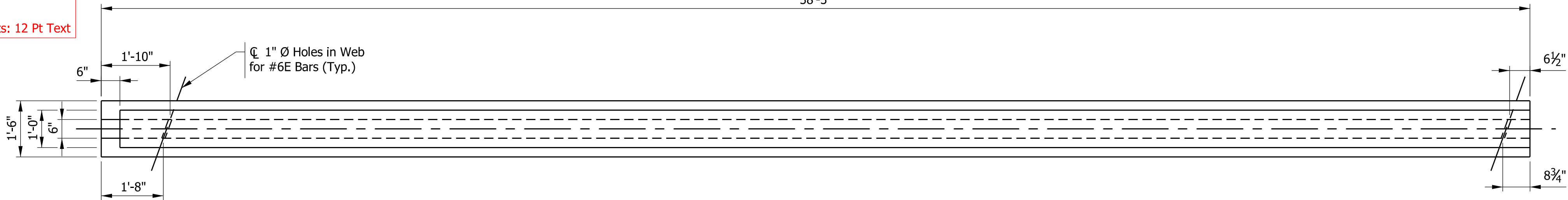
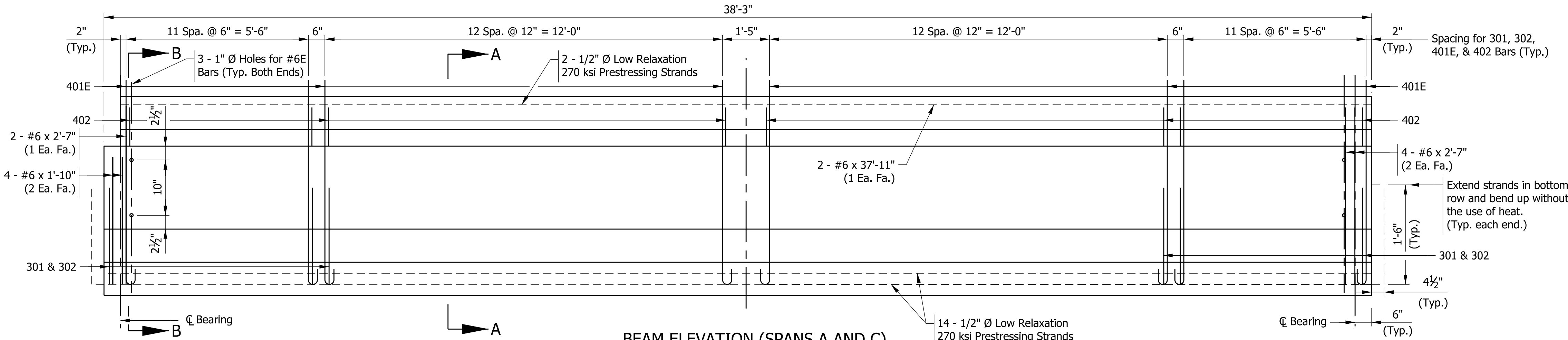
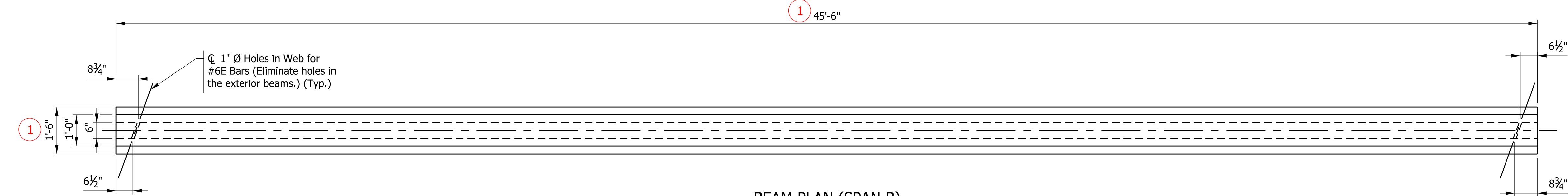
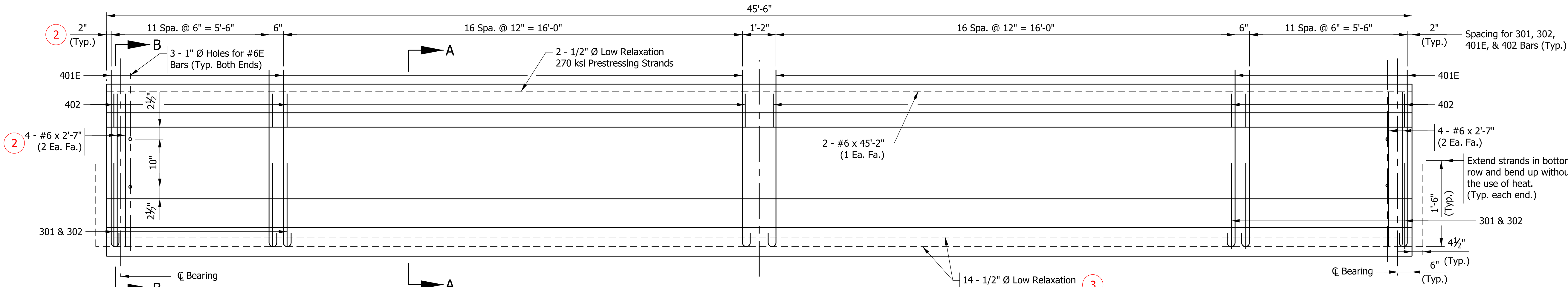
INDIANA
DEPARTMENT OF TRANSPORTATION

FRAMING PLAN

SCALE	BRIDGE FILE
AS NOTED	057-14-000000
	DESIGNATION
	9999999
DRAWING	SHEET
C7 of C14	14 of 31
	CONTRACT
	B-99999

PURPOSE:

The purpose of this Beam Details sheet is to show the longitudinal beam information necessary for fabrication of the beams and related design data.



Typ. All Notes Blocks:
Titles: 18 Pt Text
Section Headings: 14 Pt Text
Notes Body: 12 Pt Text

4 DESIGN DATA

Prestressing steel shall be 0.5" uncoated, low relaxation, seven-wire strand, 270 ksi (Area = 0.167 sq. in.).
Initial pull per strand, 33.82 kips.
Concrete strength at release, f'_{ci} = 6,000 psi.
Concrete strength at 28 days, f'_c = 7,000 psi.
Reinforcing steel shall be Grade 60 ksi minimum yield strength.

5 GENERAL NOTES - BEAMS

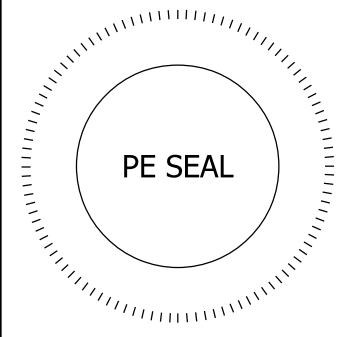
- Beams shall be cast a minimum 90 days prior to pouring the deck.
- Estimated elastic shortening is 0.104 in.
- Allowance in the beam length should be made during fabrication.
- For Type 2 Elastomeric Bearing Pad, see Standard Drawings E 726-BEBP-01 through -03.
- For Fabrication Tolerances of Prestressed Beams, see Standard Drawings E 707-BPBF-01 through -04.
- For Reinforcing Bar Notes, see Standard Drawing E 703-BRST-01.
- Reinforcing bars designated "E" shall be epoxy coated.
- See Drawing C9 for beam sections and bar bending diagrams.

REQUIRED ELEMENTS:

- Beam Dimensions
- Reinforcing Bars
- Prestressing Strands
- Design Data. Example only. Project specific information required.
- General Notes for Beams. Example only. Project specific information required.

Plot: 5/2/2025 1:00 PM

DOTWise\Documents\Standards\Sample Plans\Bridge\0001250\Design\MS\Sheets\Sht Beam Details_01.dgn



RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
Engineer of Record		
DESIGNED: ABC	03/2013	DRAWN: PQR
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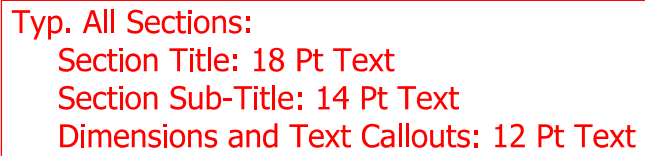
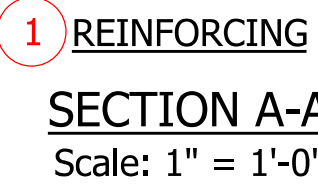
INDIANA
DEPARTMENT OF TRANSPORTATION

BEAM DETAILS

SCALE	BRIDGE FILE
AS NOTED	057-14-000000
	DESIGNATION
	9999999
DRAWING	SHEET
C8 of C14	15 of 31
	CONTRACT
	B-99999

Title Block Text:
Labels: 10 Pt Text
Signature: 12 Pt Text

The purpose of this Beam Details sheet is to show the transverse beam dimensions and reinforcing bar information necessary for fabrication of the beams.



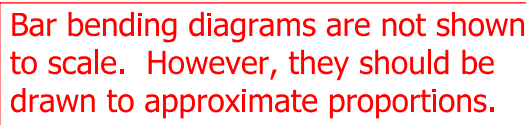
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Typ. Table:

Table Title: 18 Pt Text

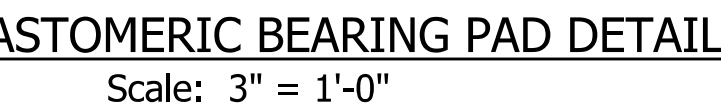
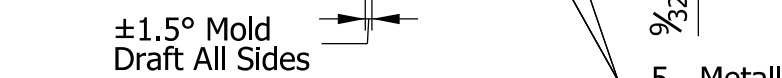
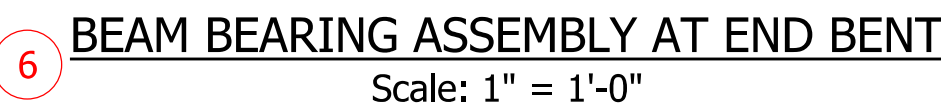
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TABLE OF CAMBERS (in.)		
	SPAN A & C	SPAN B
Initial Camber	0.760	0.997
Dead Load Deflection	0.146	0.292
Residual Camber	0.614	0.705



Location	A	B	C	D
Pier No. 2 (Span A)	1"	1"	20"	12½"
Pier No. 2 (Span B)	1"	1"	20"	12½"
Pier No. 3 (Span A)	1"	1"	20"	12½"
Pier No. 3 (Span B)	1"	1"	20"	12½"

A = Back Station Side
B = Forward Station Side
Plates shall be vulcanized to elastomeric bearings.



- ### REQUIRED ELEMENTS:

- 1 Sections Showing Beam Dimensions
- 2 Section Showing Beam Reinforcing and Prestressing Strands
- 3 Beam Bearing Assembly Details at Piers
- 4 Taper Plate Detail (When Needed)
- 5 Elastomeric Bearing Pad Detail
- 6 Beam Bearing Assembly Details at End Bent
- 7 Fillet Detail Including Section and Elevation
- 8 Reinforcing Bar Bending Diagrams
- 9 Camber Table
- 10 Notes
- 11 Signature Block and PE Seal

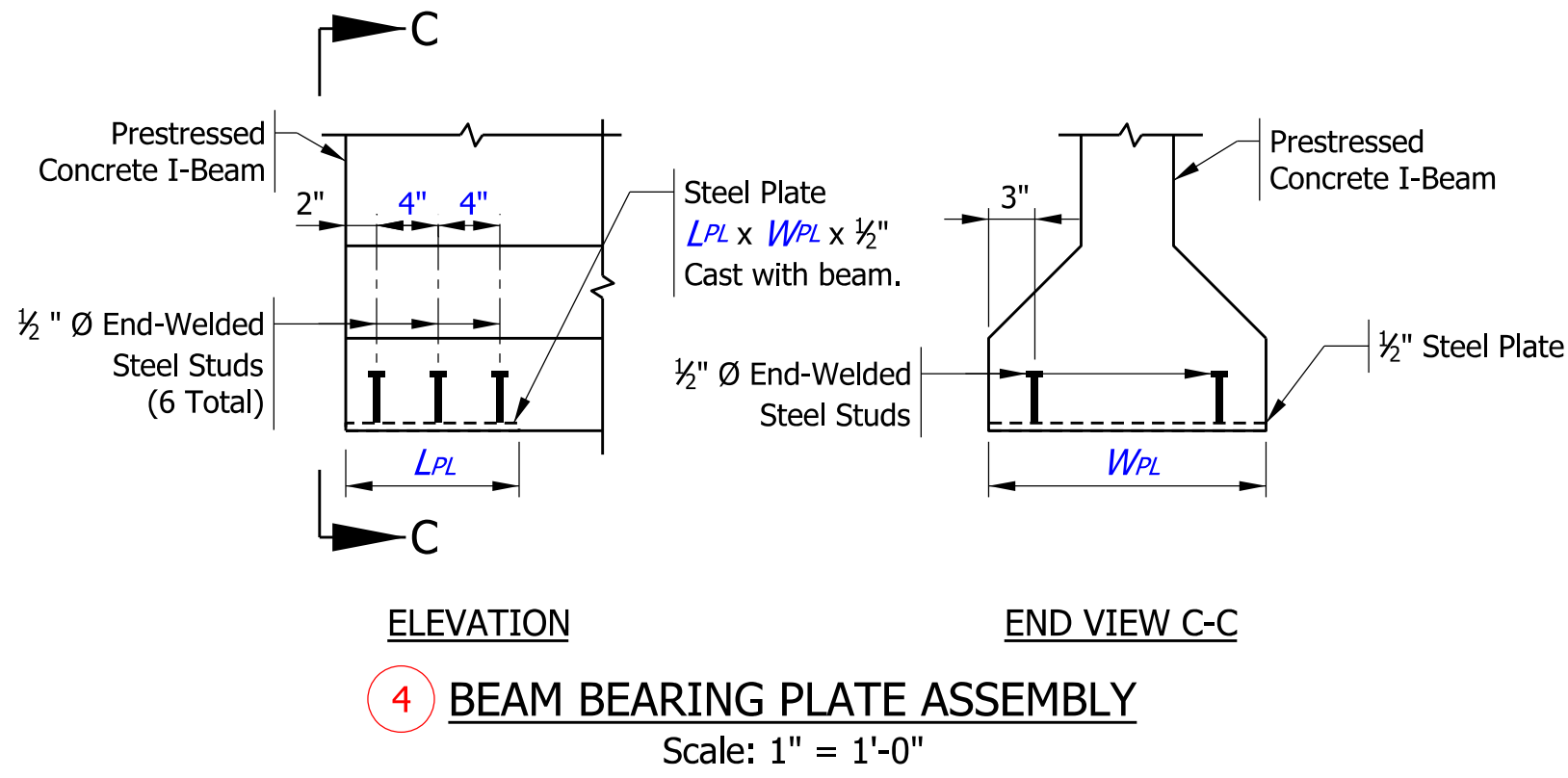
- 10 NOTES

1. For general beam notes and design data, see Drawing C8.
2. Bearing assemblies shall be included in the cost of structural members.

SCALE	BRIDGE FILE
AS NOTED	057-14-000000
	DESIGNATION
	9999999
DRAWING	SHEET
C9 of C14	16 of 31
	CONTRACT
	B-999999

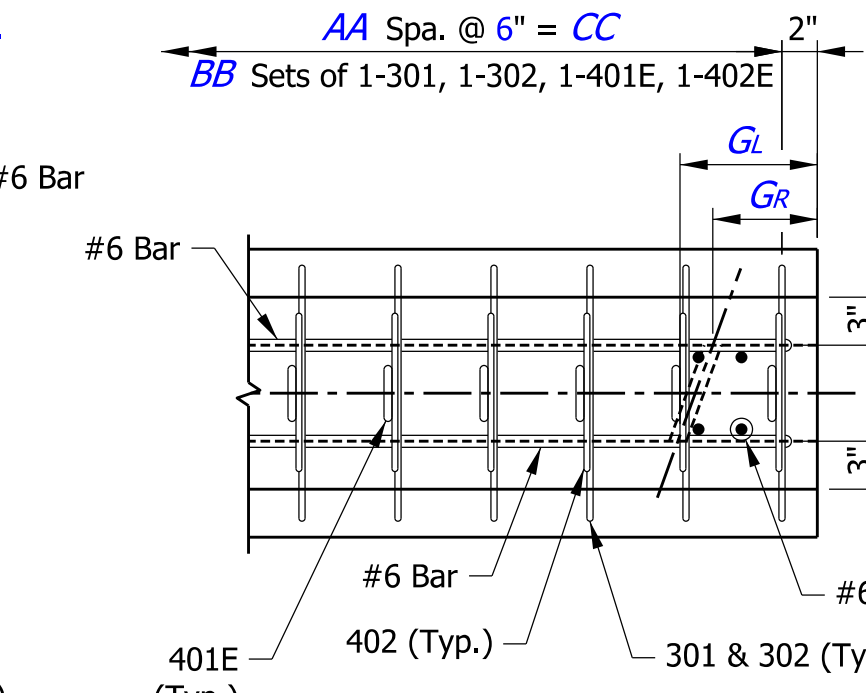
Title Block Text:
Labels: 10 Pt Text
Signature: 12 Pt Text

The purpose of this Beam Details sheet is to show the longitudinal and section information necessary for fabrication of the beams, as well as related design data. This sheet is produced using the appropriate Standard Beam Details Sheet template drawing file.



4 BEAM BEARING PLATE ASSEMBLY

Scale: 1" = 1'-0"



3 TYPICAL END TREATMENT END BENT
PLAN VIEW
Scale: 1" = 1'-0"

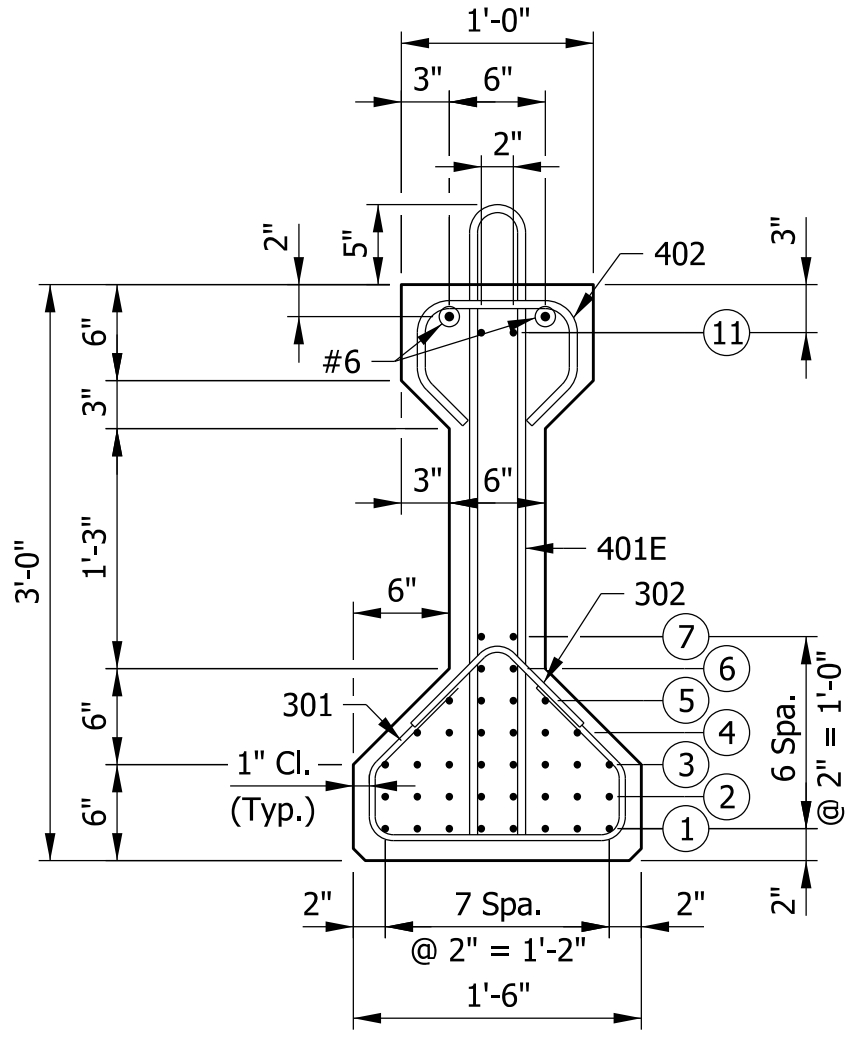
3 TYPICAL END TREATMENT INTERIOR PIER
PLAN VIEW
Scale: 1" = 1'-0"

6 DESIGN DATA

Prestressing steel shall be 0.5" uncoated, low relaxation,
 seven-wire strand, 270 ksi (ASTM A416).
 Initial pull per strand, 33.82 kips.
 Concrete strength at release, f'_{ci} = 6,000 psi.
 Concrete strength at 28 days, f'_c = 7,000 psi.
 Reinforcing steel shall be Grade 60 ksi minimum yield
 strength.

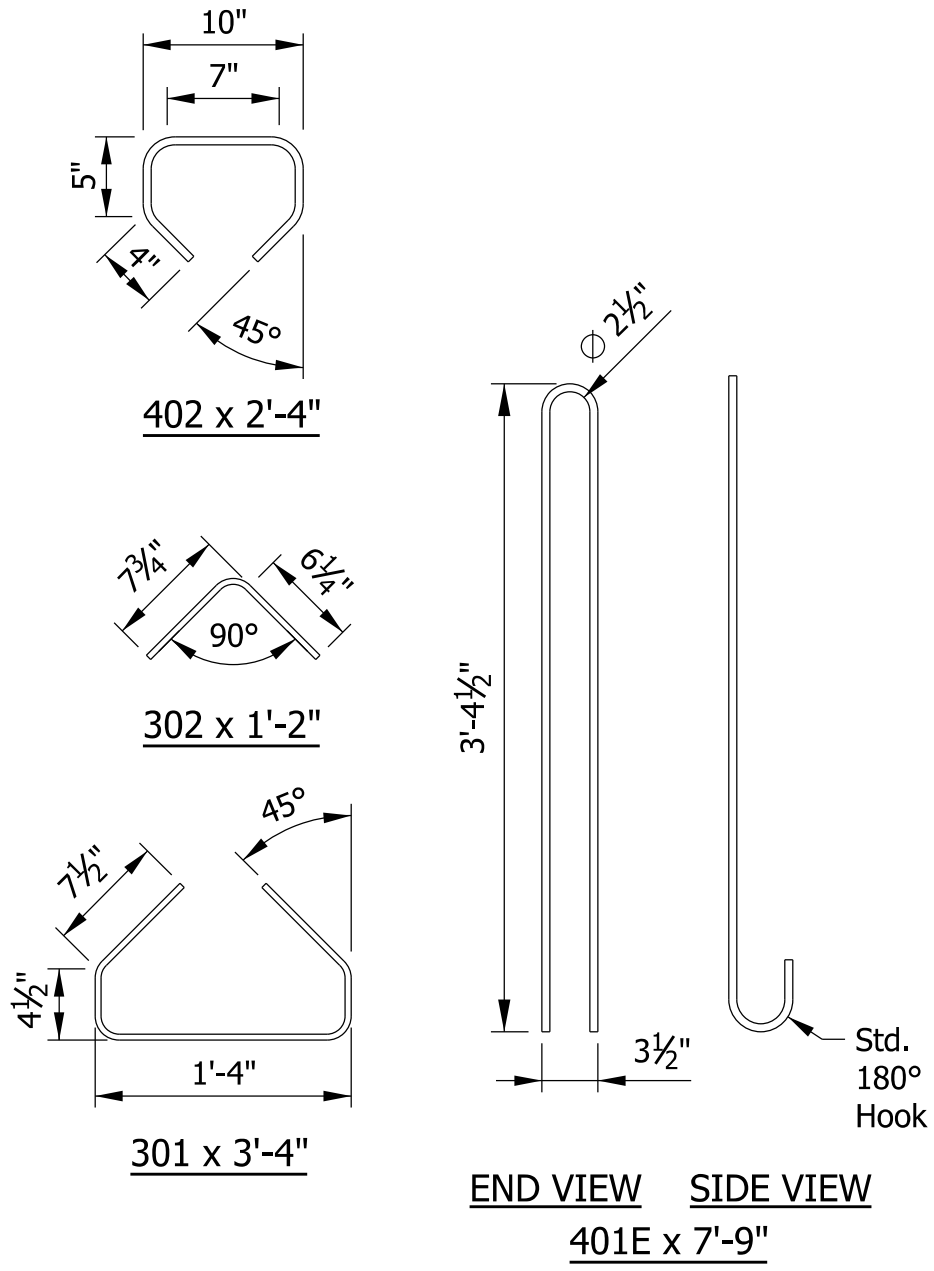
7 GENERAL NOTES - BEAMS

1. Beams shall be cast a minimum 28 days prior to pouring the deck.
2. Beams are to be lifted and supported at the bearing points during handling, storage, and transportation.
3. Estimated elastic shortening is 0.104 in.
4. Allowance in the beam length should be made during fabrication.
5. For Elastomeric Bearing Pads, see Standard Drawings E 726-BEBP-01 through -03.
6. For Fabrication Tolerances of Prestressed Beams, see Standard Drawings E 707-BBPF-01 through -04.
7. For Reinforcing Bar Notes, see Standard Drawing E 703-BRST-01.
8. Reinforcing bars designated "E" shall be epoxy coated.
9. Top of beams shall be scored transversely at about 3" on center with pointed tool.



2 END SPAN SECTION A-A
Scale: 1" = 1'-0"

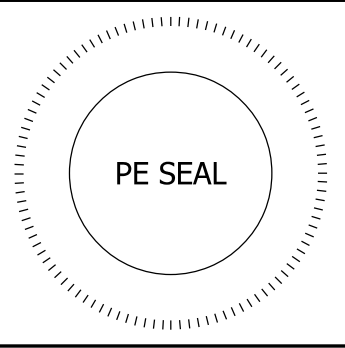
2 MIDSPAN SECTION B-B
Scale: 1" = 1'-0"



5 BAR BENDING DETAILS
Not to Scale

- ### REQUIRED ELEMENTS:

- 1 Beam Elevation
- 2 Beam Sections—End Span and Midspan
- 3 End Treatment Plan Views
- 4 Beam Bearing Plate Assembly for Embedded Plates
- 5 Reinforcing Bar Bending Details
- 6 Design Data. Example only. Project specific information required
- 7 General Notes for Beams. Example only. Project specific information required
- 8 Completed Summary Table:
Beam Data
Prestressing Strand Data
Reinforcing Bar Data
- 9 Signature Block and PE Seal

[illegible][illegible][illegible]

RECOMMENDED FOR APPROVAL		<i>Engineer of Record</i>		MM/DD/YY	
		DESIGN ENGINEER		DATE	
DESIGNED: ABC	03/2013	DRAWN: PQR	03/2013		
CHECKED: BCD	04/2013	CHECKED: RST	04/2013		

INDIANA
DEPARTMENT OF TRANSPORTATION

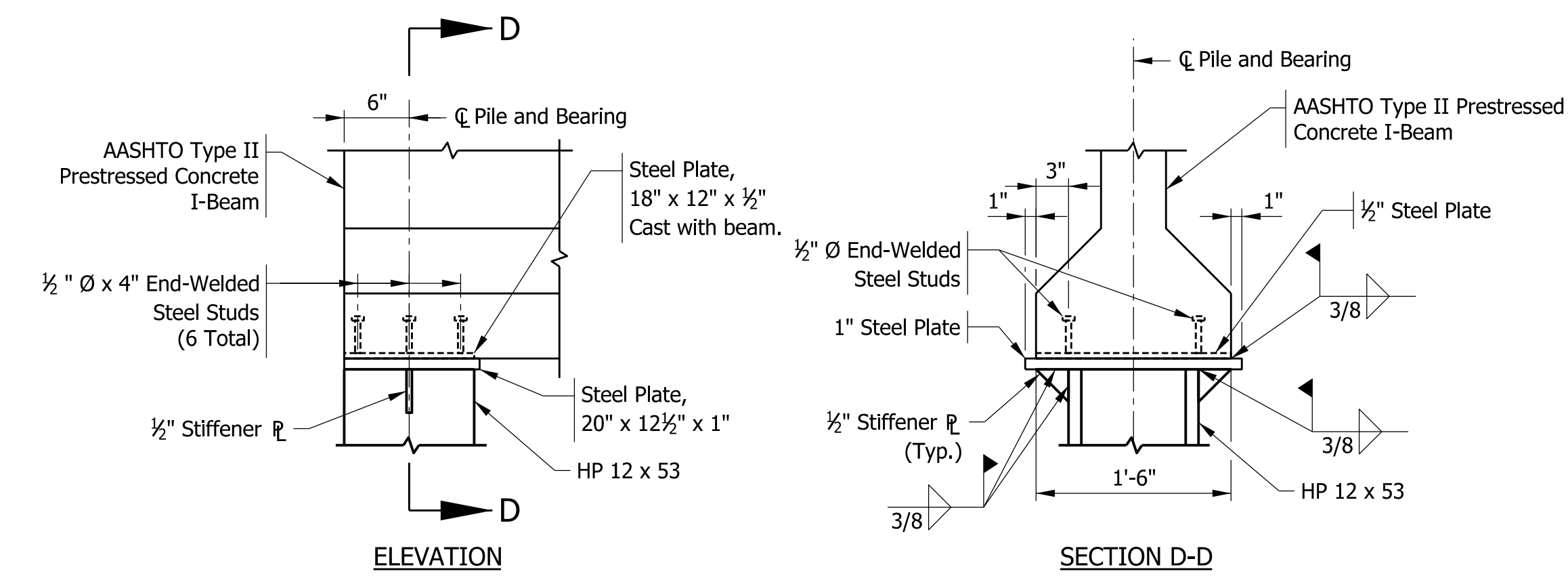
BEAM DETAILS
AASHTO I-BEAM, TYPE II

SCALE	BRIDGE FILE
AS NOTED	057-14-000000
	DESIGNATION
	9999999
DRAWING	SHEET
C8 of C14	15 of 31
	CONTRACT
	B-99999

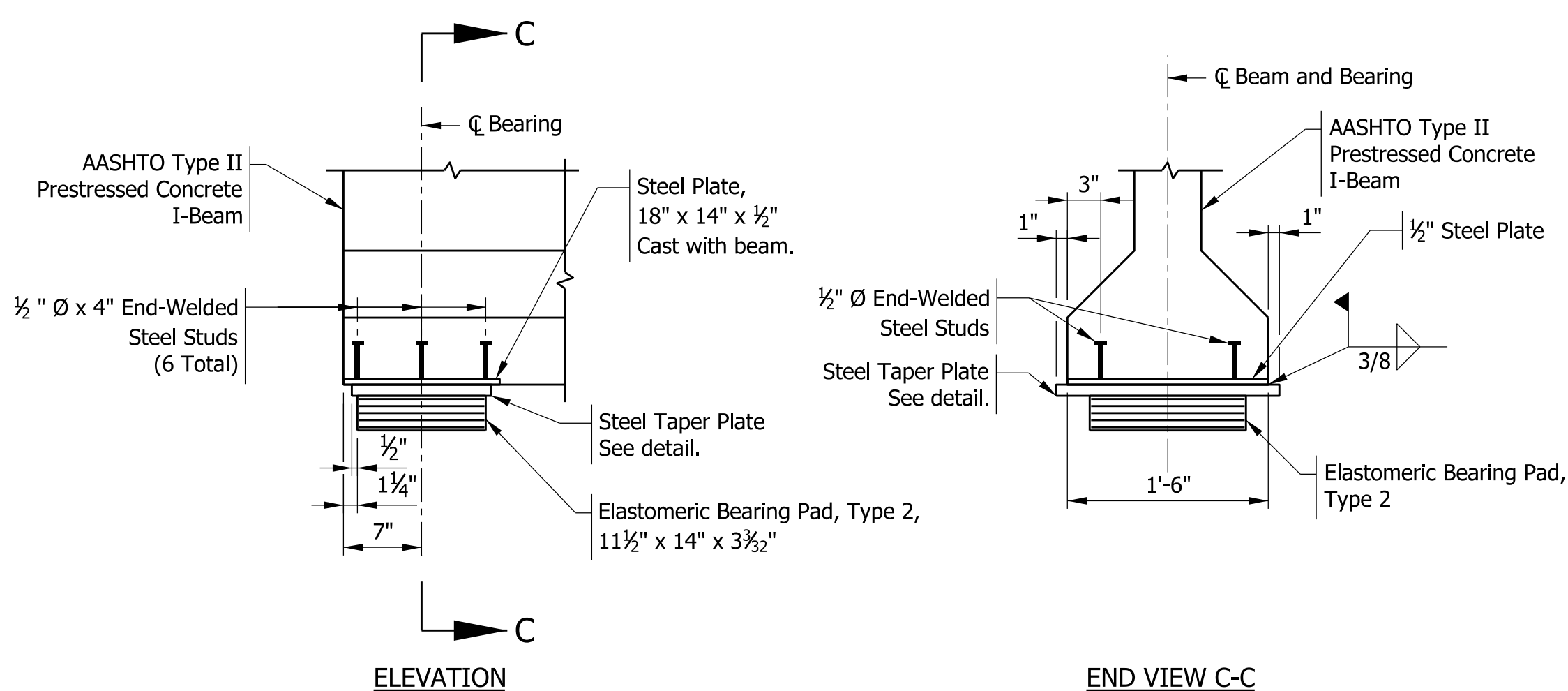
- 9 Title Block Text:
Labels: 10 Pt Text
Signature: 12 Pt Text

PURPOSE:

The purpose of this Beam Details sheet is to show the additional details information necessary for installation of the beams. This sheet is intended to be used in conjunction with the appropriate Standard Beam Details Sheet.

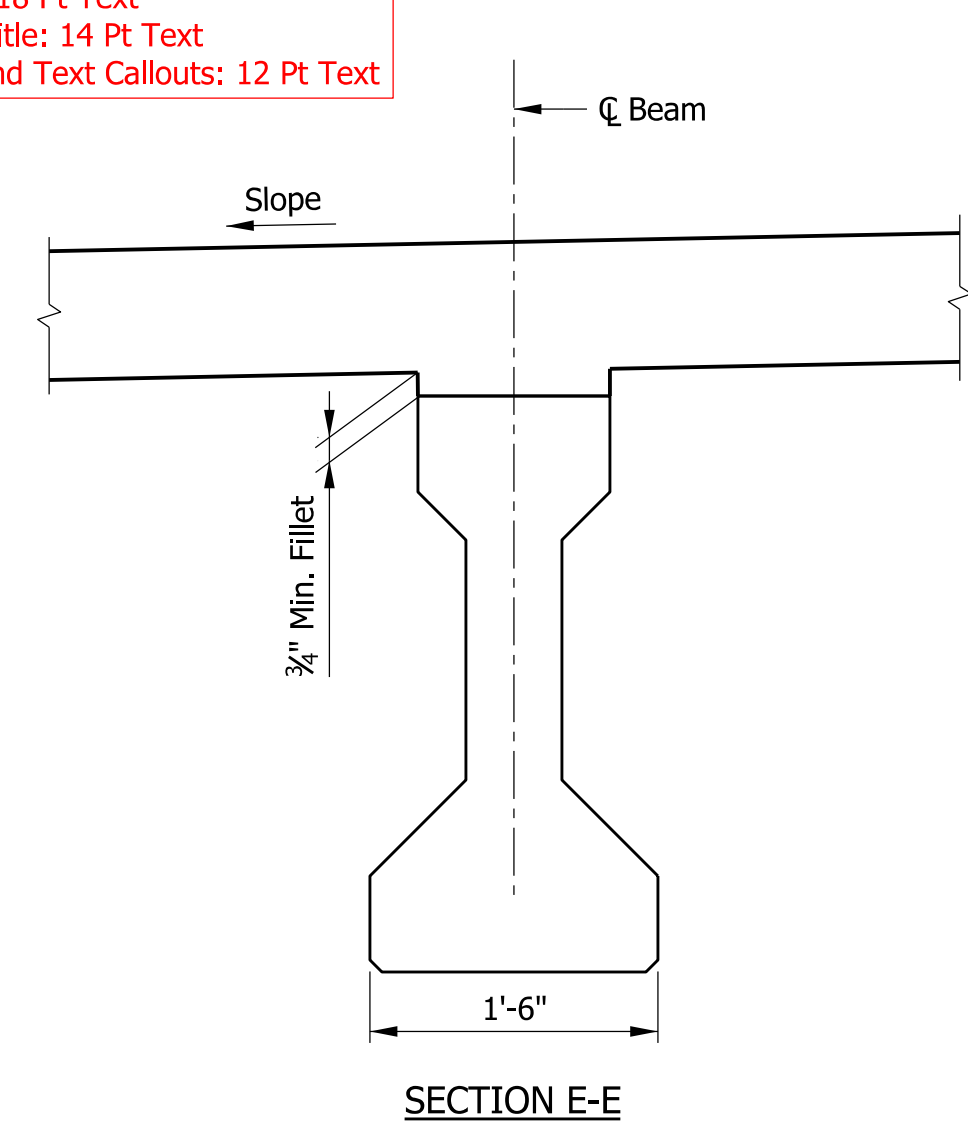


1 BEAM BEARING ASSEMBLY AT END BENT
Scale: 1" = 1'-0"

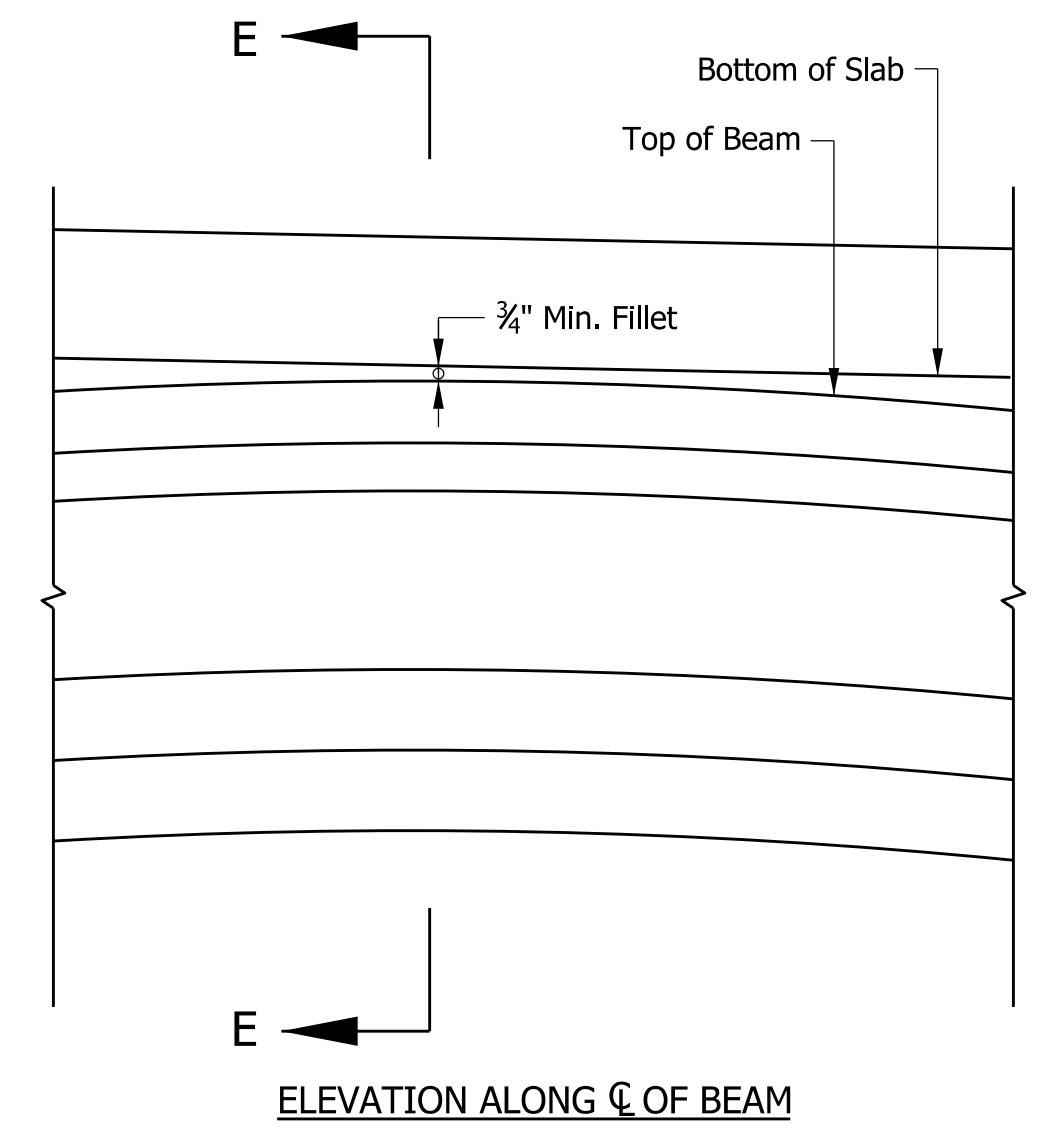


2 BEAM BEARING ASSEMBLY AT PIER
Scale: 1" = 1'-0"

Typ. All Details:
Section Title: 18 Pt Text
Section Sub-Title: 14 Pt Text
Dimensions and Text Callouts: 12 Pt Text

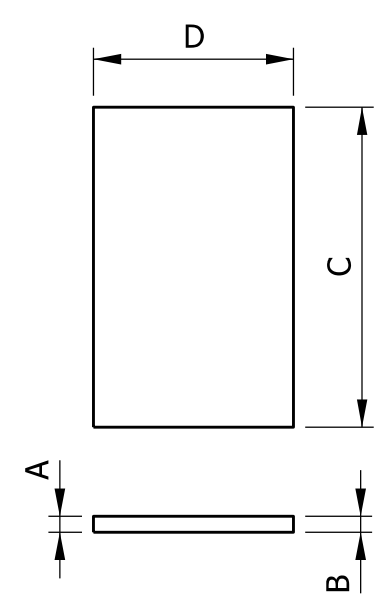


5 FILLET DETAIL
Scale: 1" = 1'-0"



9
Typ. Table:
Table Title: 18 Pt Text
Table Data: 12 Pt Text

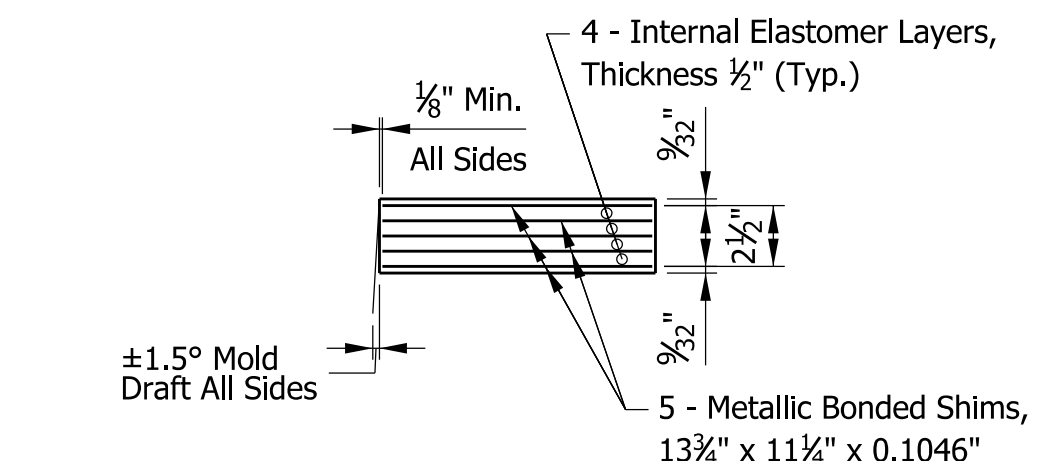
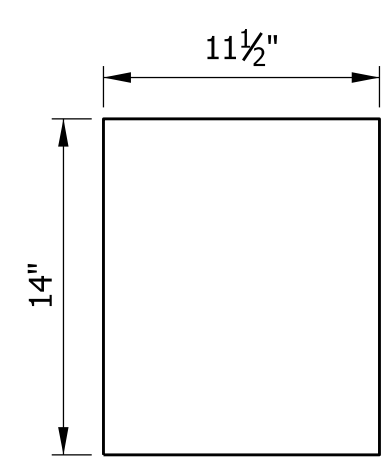
TABLE OF CAMBERS (in.)		
	SPAN A & C	SPAN B
Initial Camber	0.760	0.997
Dead Load Deflection	0.146	0.292
Residual Camber	0.614	0.705



3 TAPER PLATE DETAIL
Scale: 1" = 1'-0"

TAPER PLATE TABLE				
Location	A	B	C	D
Pier No. 2 (Span A)	1"	1"	20"	12½"
Pier No. 2 (Span B)	1"	1"	20"	12½"
Pier No. 3 (Span A)	1"	1"	20"	12½"
Pier No. 3 (Span B)	1"	1"	20"	12½"

A = Back Station Side
B = Forward Station Side
Plates shall be vulcanized to elastomeric bearings.



4 TYPE 2 ELASTOMERIC BEARING PAD DETAIL
Scale: 3" = 1'-0"

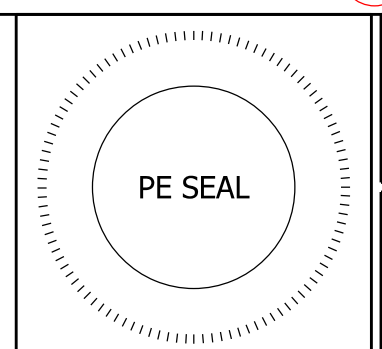
REQUIRED ELEMENTS:

- 1 Beam Bearing Assembly Details at End Bents
- 2 Beam Bearing Assembly Details at Piers
- 3 Taper Plate Detail (When Needed)
- 4 Elastomeric Bearing Pad Detail
- 5 Fillet Detail Including Section and Elevation
- 6 Camber Table
- 7 Notes
- 8 Signature Block and PE Seal

7 NOTES

- 1. For general beam notes and design data, see Drawing C8.
- 2. Bearing assemblies shall be included in the cost of structural members.

8



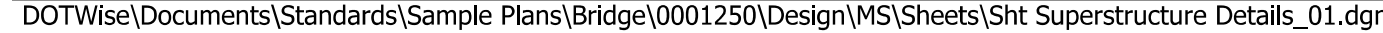
RECOMMENDED FOR APPROVAL	Engineer of Record	MM/DD/YY	DATE
DESIGNED: ABC	03/2013	DRAWN: PQR	03/2013
CHECKED: BCD	04/2013	CHECKED: RST	04/2013

INDIANA DEPARTMENT OF TRANSPORTATION	
BEAM DETAILS	

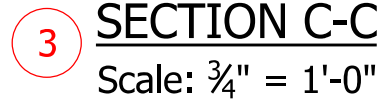
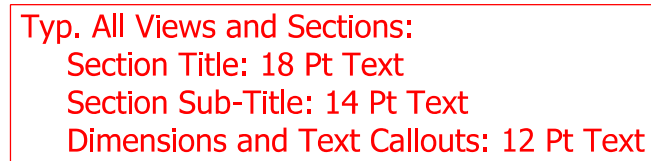
SCALE	BRIDGE FILE
AS NOTED	057-14-000000
	DESIGNATION
	9999999
DRAWING	SHEET
C9 of C14	16 of 31
	CONTRACT
	B-99999

Title Block Text:
Labels: 10 Pt Text
Signature: 12 Pt Text

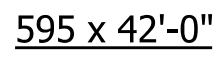
The purpose of these Superstructure Details sheets is to show physical dimensions and pertinent information necessary for the contractor to construct the bridge deck.



The purpose of these Superstructure Details sheets is to show physical dimensions and pertinent information necessary for the contractor to construct the bridge deck.



1. Pours numbers indicate sequence of pours.
2. Pours over interior supports shall be made last to reduce the effect of the slab dead load in the negative moment area.
3. Pours No. 4 and No. 5 will include the diaphragms at the supports and shall be held to a 5-ft length.



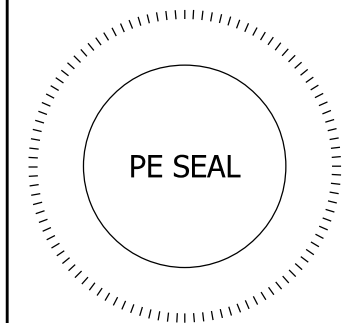
Not to Scale

Show bar mark and total length of bar, rounded to nearest 1 in.

Typ. All Bar Bending Diagrams:
 Title: 18 Pt Text
 Bar Mark Title: 14 Pt Text
 Dimensions and Text Callouts: 12 Pt Text
 See IDM 405-2.0 for guidance regarding
 detailing reinforcing steel.

Bar bending diagrams are not shown to scale. However, they should be drawn to approximate proportions.

1. All reinforcing bars shall be epoxy-coated.
2. For Reinforcing Bar Notes, see Standard Drawing E 703-BRST-01.



RECOMMENDED FOR APPROVAL	<i>Engineer of Record</i>		MM/DD/YY
	DESIGN ENGINEER		DATE
DESIGNED: ABC	03/2013	DRAWN: PQR	03/2013
CHECKED: BCD	04/2013	CHECKED: RST	04/2013

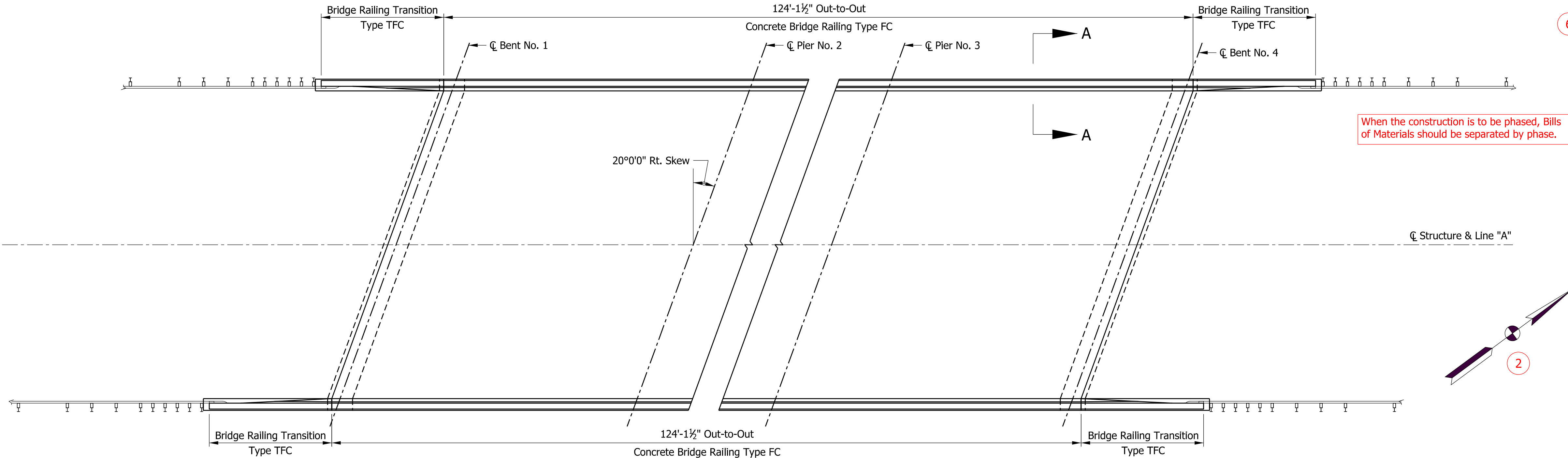
INDIANA
DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE DETAILS

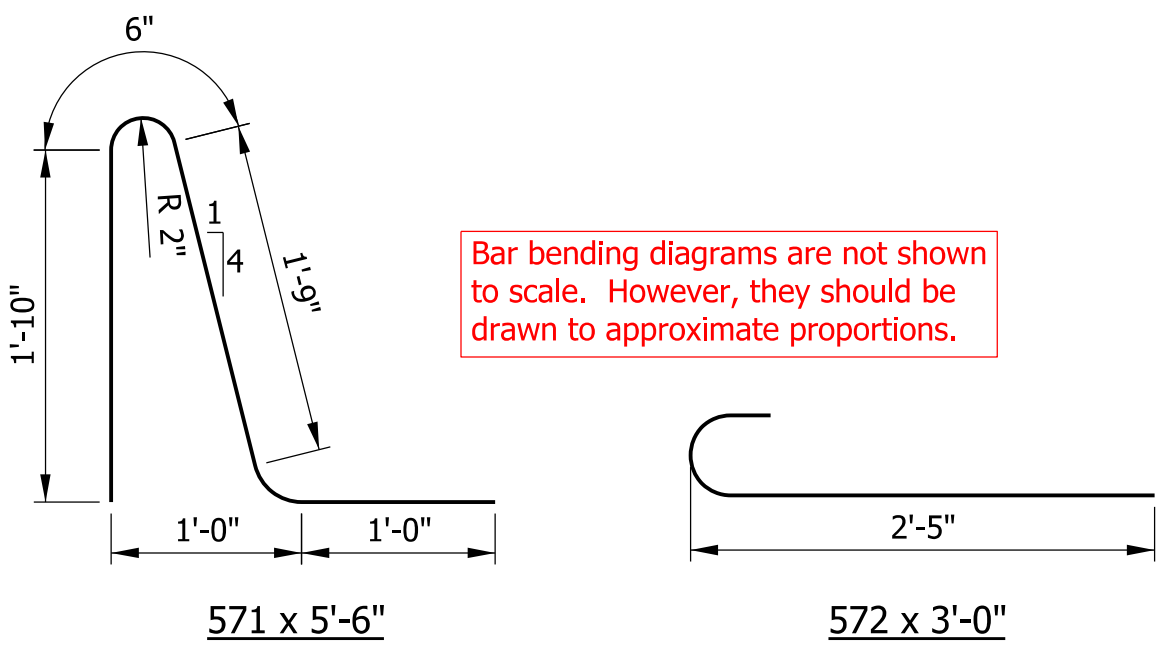
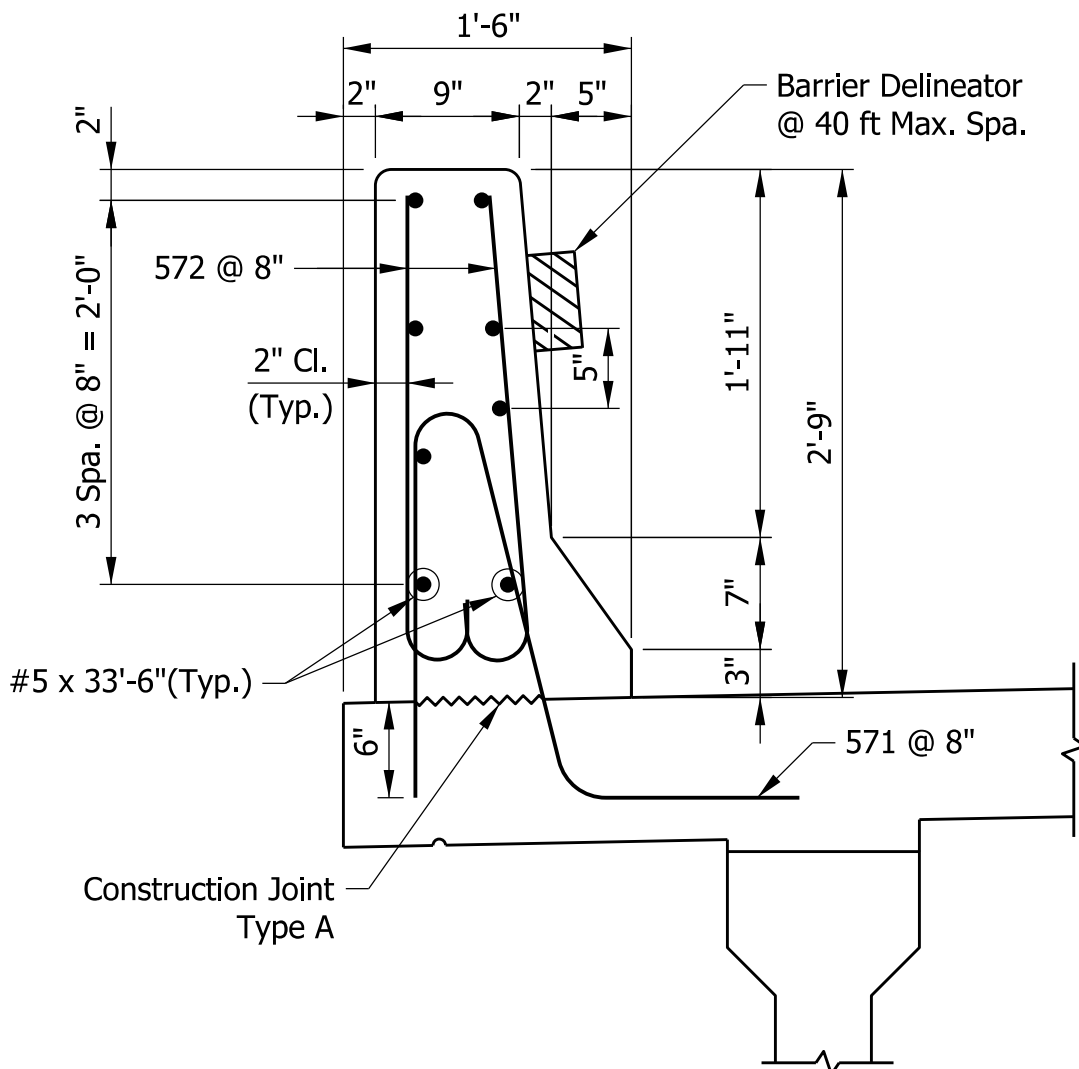
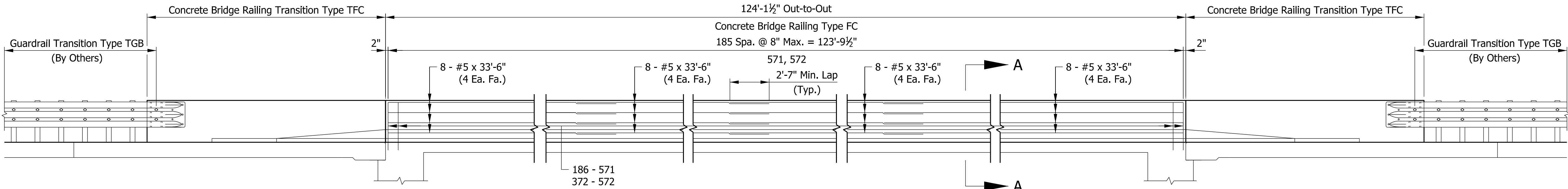
SCALE	BRIDGE FILE
AS NOTED	057-14-00000
	DESIGNATION
	9999999
DRAWING	SHEET
C11 of C14	18 of 31
	CONTRACT
	B-99999

PURPOSE:

The purpose of this Railing Details sheet is to show physical dimensions, reinforcing, and pertinent information necessary for the contractor to construct the bridge railing and bridge railing transitions.



BILL OF MATERIALS BRIDGE RAILING			
EPOXY-COATED REINFORCING BARS			
SIZE & MARK	NO. OF BARS	LENGTH (FT - IN.)	WEIGHT (LB)
571E	372	5'-6"	
572E	744	3'-0"	
#5E	64	33'-6"	
Total #5			6698
Total from Railing Transition Type TFC (551 Lbs x 4)			2204
Total Epoxy-Coated Reinforcing Bars			8902
CONCRETE, CLASS A			
Railing Type FC			23.7 Cys
Total Concrete, Class C			28.5 Cys
MISCELLANEOUS			
Barrier Delineators			12 Ea
Concrete Bridge Railing Transition Type TFC			4 Ea
Surface Seal			400 Sft



REQUIRED ELEMENTS:

- 1 Railing Plan
- 2 North Arrow
- 3 Elevation(s) showing Dimensions and Reinforcing for Bridge Railing and Bridge Railing Transitions
- 4 Section(s) Showing Dimensions and Reinforcing
- 5 Reinforcing Bar Bending Details
- 6 Bill of Materials
- 7 Notes
- 8 Signature Block and PE Seal

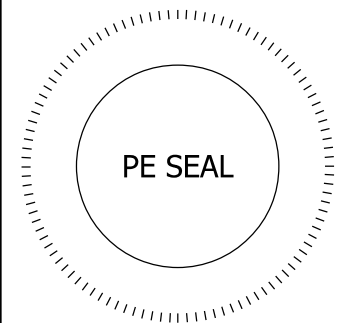
NOTES

1. All reinforcing bars shall be epoxy-coated.
2. For Reinforcing Bar Notes, see Standard Drawing E 703-BRST-01.
3. For details of Concrete Bridge Railing Transition, Type TFC, see Standard Drawings E 706-TTFC-01 through -03.
4. For additional details of Concrete Bridge Railing, Type FC, see Standard Drawings E 706-BRSF-01 and -03.

Plot: 5/2/2025 1:10 PM

DOT\wise\Documents\Standards\Sample Plans\Bridge\0001250\Design\MS\Sheets\Sht Railing Details.dgn

Title Block Text:
Labels: 10 Pt Text
Signature: 12 Pt Text



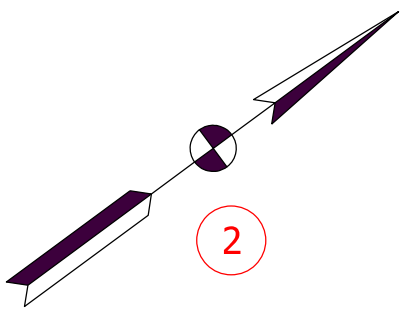
RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	MM/DD/YY	DATE
Engineer of Record			
DESIGNED: ABC	03/2013	DRAWN: PQR	03/2013
CHECKED: BCD	04/2013	CHECKED: RST	04/2013

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DEPARTMENT OF TRANSPORTATION

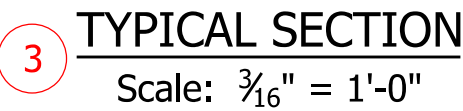
RAILING DETAILS

SCALE	BRIDGE FILE
AS NOTED	057-14-000000
	DESIGNATION
	9999999
DRAWING	SHEET
C12 of C14	19 of 31
	CONTRACT
	B-99999

The purpose of this Screed Details sheet is to provide elevations for setting forms in order to place the floor slab and coping.



- 1 Plan
- 2 North Arrow
- 3 Transverse Section
- 4 Table of Screed Elevations
- 5 Concrete Dead Load Deflection Diagram
- 6 Procedure and Notes
- 7 Signature Block and PE Seal




See *IDM* 404-2.02(01) for information related to determination of screed elevations and development of the Plan of Screeds.

[illegible]

See *IDM* 405-3.02 for information related to computation of slab dead-load deflections and development of the diagram.

1. After beams are set, take elevations at all screed points on top of beams. Enter these elevations in the table. Subtract these elevations from the tabulated elevations and use the resulting dimensions as the height for setting screed forms above these points. These dimensions remain constant regardless of how much or in what order the concrete is poured.
2. Do not set screed forms by leveling.
3. No concrete in the floor slab shall be poured until the above operations are completed.
4. Screed elevations as shown in the table include an allowance for concrete dead load deflections.
5. For General Notes, see Drawing C2.

7

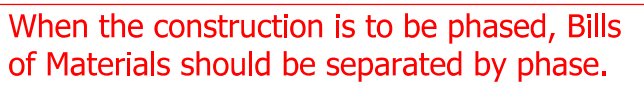


INDIANA
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SCREEDS

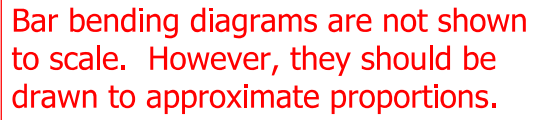
SCALE		BRIDGE FILE	
AS NOTED		057-14-000000	
		DESIGNATION	
		9999999	
DRAWING		SHEET	
C13	of C14	20	of 31
		CONTRACT	
		B-999999	

The purpose of this Approach Slab Details sheet is to provide all necessary dimensions and reinforcing details needed to construct the bridge approach slab.



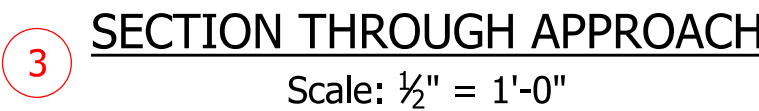
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Scale: $\frac{1}{4}" = 1'-0"$



Not to Scale

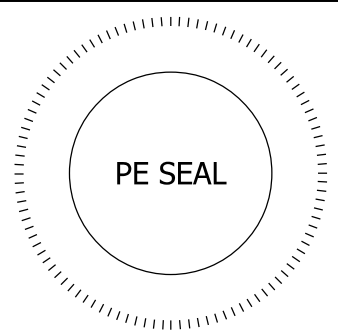
1. For General Notes, see Drawing C2.
2. For details of RCBA Extension for TFC, see Standard Drawing E 609-TBAE-01. Thickness shall match approach slab thickness of 12".
3. For Reinforcing Bar Notes, see Standard Drawing E 703-BRST-01.
4. All reinforcing bars in approach slab shall be epoxy-coated.
5. RCBA shall be surface sealed.



- 1 North Arrow
- 2 Approach Slab Plan
- 3 Section
- 4 Reinforcing Bar Bending Details and Cutting Diagrams
- 5 Bill of Materials
- 6 Notes
- 7 Signature Block and PE Seal

Typ. All Views and Sections:
Section Title: 18 Pt Text
Section Sub-Title: 14 Pt Text
Dimensions and Text Callouts: 12 Pt Text

Typ. All Bar Bending Diagrams:
 Title: 18 Pt Text
 Bar Mark Title: 14 Pt Text
 Dimensions and Text Callouts: 12 Pt Text
 See IDM 405-2.0 for guidance regarding
 detailing reinforcing steel.



RECOMMENDED FOR APPROVAL	<i>Engineer of Record</i>		MM/DD/YY
	DESIGN ENGINEER		DATE
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CHECKED: BCD	04/2013	CHECKED: RST	04/2013

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APPROACH SLAB DETAILS

SCALE	BRIDGE FILE
AS NOTED	057-14-000000
	DESIGNATION
	9999999
DRAWING	SHEET
C14 of C14	21 of 31
	CONTRACT
	R-000000

PURPOSE:

The purpose of this Bridge Summary sheet is to summarize quantities by superstructure, substructure elements, and approach structure for the bridge.

1

SUMMARY OF BRIDGE QUANTITIES																														
ITEM	CONCRETE				CONCRETE RAILING CLASS C	REINF. BARS	REINF. BARS, EPOXY COATED	RAILING STEEL	TIE-BAR ASSY. . EPOXY COATED	BARRIER DELIN- EATORS	CONC. BRIDGE RAIL TRANSITION TFC	R. C. BRIDGE APPROACH (SIZE)	DENSE GRADED SUBBASE	AGGR. FOR END BENT BACKFILL	GEO- TEXTILE	TERMINAL JOINT	ANCHOR PLATES MK-AP	PILES					TEST PILE				CONC. STR. MEMBERS		**	
	CLASS C	CLASS A	CLASS B ABOVE FTG.	CLASS B IN FTG.														STEEL H (12 x 53)	STEEL H (12 x 74)	STEEL H EPOXY COATED	PILE SHOE (12 x 53)	PILE SHOE (12 x 74)	PRODUCTION 12 x 53	PRODUCTION 12 x 74	TEST PILE, DYNAMIC RESTRIKE	CORED HOLE IN ROCK	BOX BEAM TYPE & SIZE	I-BEAM TYPE II	SURFACE SEAL	
	SUPERSTR	SUBSTR																												
Superstructure	CYS	CYS	CYS	CYS	CYS	LBS	LBS	LFT	EACH	EACH	EACH	SYS	CYS	CYS	SYS	LFT	EACH	LFT	LFT	LFT	EACH	EACH	LFT	LFT	EACH	NO.	LFT	LFT	LFT	SFT
	323.2						47393		42																				610	7192
End Bent No. 1							4713							40.2	38			420			5									
Pier No. 2		96		6		18743													490	80		8		80	1					
Pier No. 3		96		6		18743													560	80		8								
End Bent No. 4							4713							40.2	38			312			5		88		1					
R. C. Bridge Approach (12") at End Bent No. 1							13282					252.6	20.2			79														1088
R. C. Bridge Approach (12") at End Bent No. 4							13282					252.6	20.2			79														1088
Concrete Bridge Railing, Type FC					28.5		8902			12	2																			400
TOTALS	323.2	192			28.5	37486	92285		42	12	2	505.2	40.4	80.4	76	158		732	1050	160	10	16	88	80	2				610	9768

Typ. Table;
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Table Data: 12 Pt Text

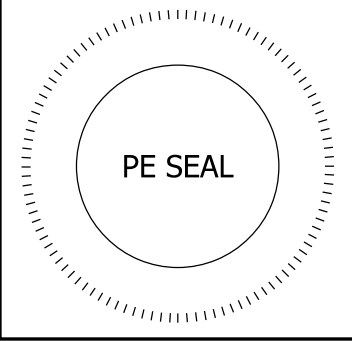
REQUIRED ELEMENTS:

- 1Summary of Bridge Quantities Table
- 2Signature Block and PE Seal

3

Plot: 5/2/2025 1:12 PM

Title Block Text:
Labels: 10 Pt Text
Signature: 12 Pt Text



RECOMMENDED FOR APPROVAL	<i>Engineer of Record</i>		MM/DD/YY
	DESIGN ENGINEER		DATE
	DESIGNED: ABC	03/2013	DRAWN: PQR 03/2013
CHECKED: BCD	04/2013	CHECKED: RST	04/2013

INDIANA
DEPARTMENT OF TRANSPORTATION

BRIDGE SUMMARY

SCALE	BRIDGE FILE
N/A	057-14-000000
	DESIGNATION
	9999999
	SHEET
	22 of 31
	CONTRACT
	B-99999

The purpose of this Road Summary sheet is to summarize quantities for the project in addition to the bridge structure itself.

1

2

7

3

6

5

REQUIRED ELEMENTS:

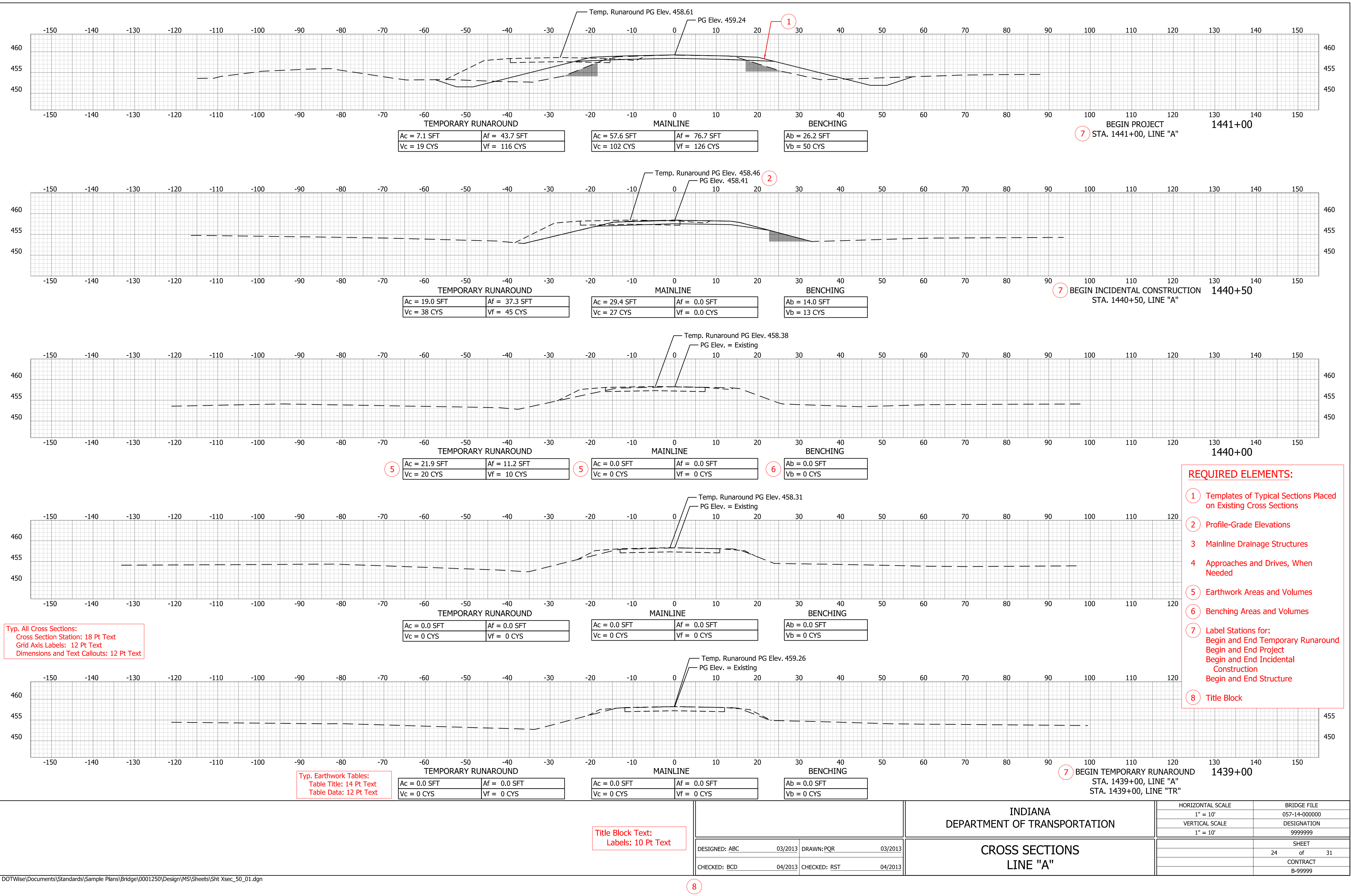
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8 MATI

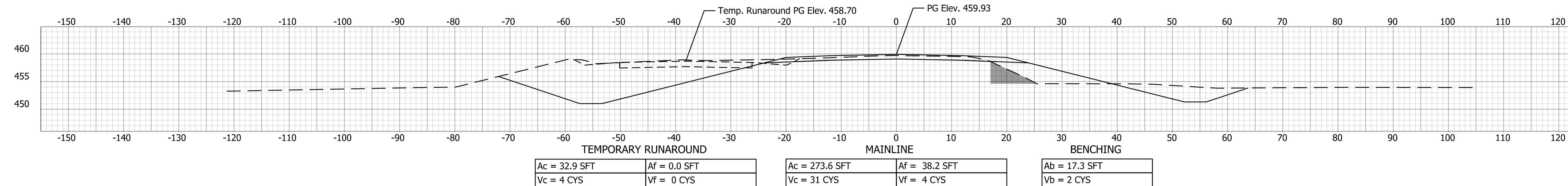
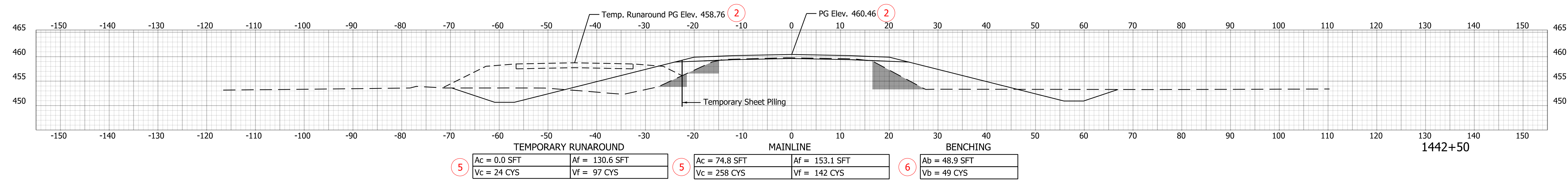
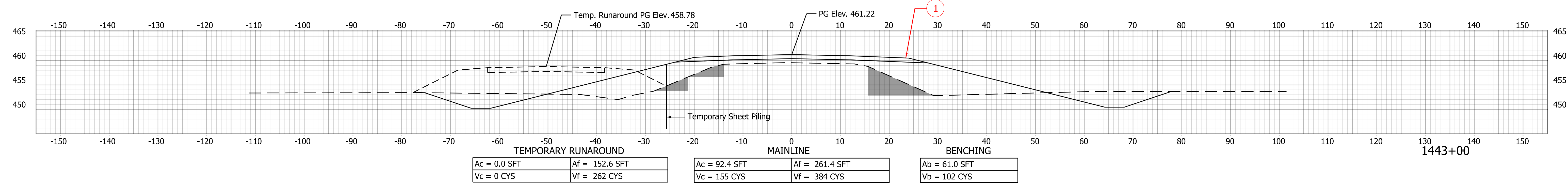
PURPOSE:

The purpose of these Cross Sections sheets is to provide earthwork calculations and all supporting information.

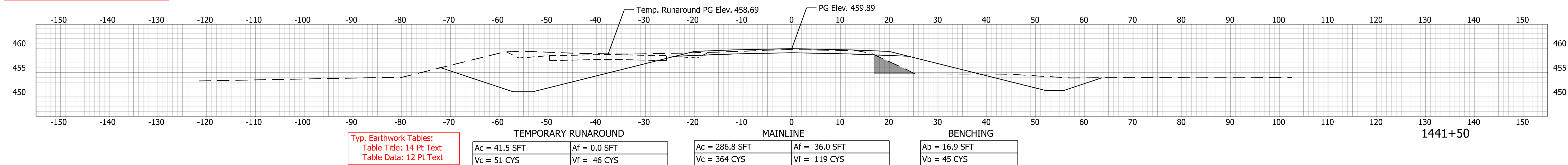


PURPOSE:

The purpose of these Cross Sections sheets is to provide earthwork calculations and all supporting information.



Typ. All Cross Sections:
Cross Section Station: 18 Pt Text
Grid Axis Labels: 12 Pt Text
Dimensions and Text Callouts: 12 Pt Text



- ## REQUIRED ELEMENTS:
- 1 Templates of Typical Sections Placed on Existing Cross Sections
 - 2 Profile-Grade Elevations
 - 3 Mainline Drainage Structures
 - 4 Approaches and Drives, When Needed
 - 5 Earthwork Areas and Volumes
 - 6 Benching Areas and Volumes
 - 7 Label Stations for:
Begin and End Temporary Runaround
Begin and End Project
Begin and End Incidental Construction
Begin and End Structure
 - 8 Title Block

Title Block Text:
Labels: 10 Pt Text

INDIANA DEPARTMENT OF TRANSPORTATION				HORIZONTAL SCALE		BRIDGE FILE							
				1" = 10'		057-14-000000							
				VERTICAL SCALE		DESIGNATION							
				1" = 10'		99999999							
DESIGNED: ABC		03/2013		DRAWN: PQR		03/2013		CROSS SECTIONS LINE "A"				SHEET	
						25 of 31							
						CONTRACT							
CHECKED: BCD		04/2013		CHECKED: RST		04/2013				B-999999			