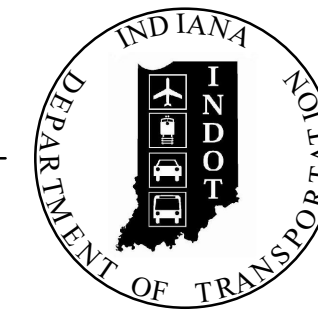


PROJECT	DESIGNATION
0200636	0200636
CONTRACT	BRIDGE FILE
B-33539	041-82-4998C

INDIANA DEPARTMENT OF TRANSPORTATION



STRUCTURE INFORMATION				
STRUCTURE	TYPE	SPAN AND SKEW	OVER	STATION
041-82-4998C	BUILT-UP STEEL PLATE GIRDER BRIDGE	1@85'-3" 3@86'-0" 1@43'-0" NO SKEW	OHIO RIVER OVERFLOW	± STRUCTURE STA. 160+18.35

TRAFFIC DATA	
A.A.D.T. (2013)	19989 V.P.D.
A.A.D.T. (2017)	20380 V.P.D.
A.A.D.T. (2037)	25630 V.P.D.
DIRECTIONAL DISTRIBUTION	100 %
TRUCKS	11.6 % A.A.D.T.

DESIGN DATA	
DESIGN SPEED	50 M.P.H.
PROJECT DESIGN CRITERIA	3R NON-FREEWAY
FUNCTIONAL CLASSIFICATION	PRINCIPAL ARTERIAL
RURAL/URBAN	URBAN
TERRAIN	LEVEL
ACCESS CONTROL	NONE

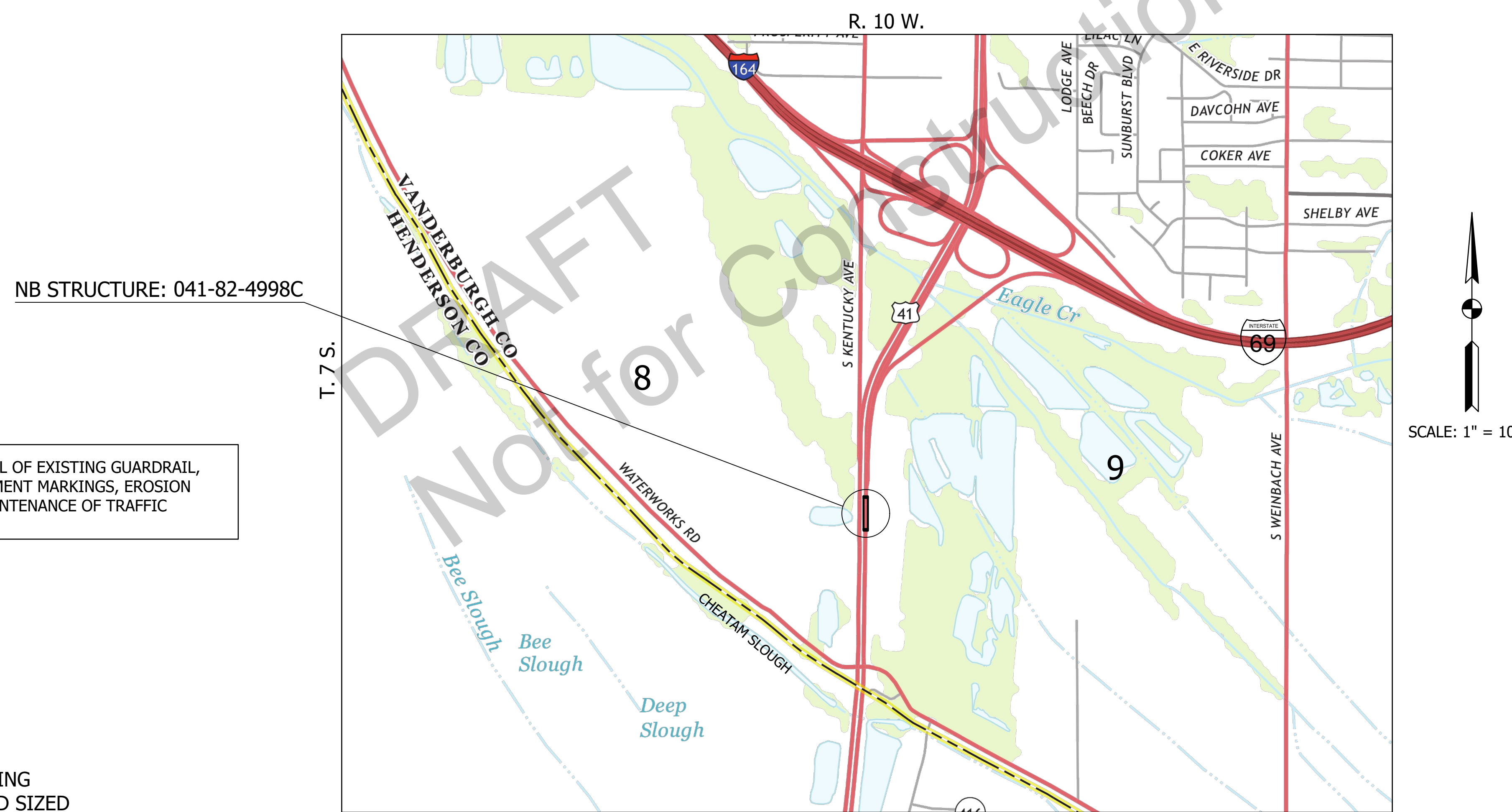
BRIDGE REHABILITATION PLANS

FOR SPANS OVER 20 FEET

U.S. 41 NB OVER OHIO RIVER OVERFLOW

PROJECT NO. 0200636

DECK RECONSTRUCTION ON STRUCTURE 041-82-4998-C (NB), U.S. 41 OVER OHIO RIVER OVERFLOW LOCATED APPROXIMATELY 0.82 MILES SOUTH OF THE U.S. 41 AND I-69 INTERCHANGE, IN SECTIONS 8 AND 9, TOWNSHIP 7 SOUTH, RANGE 10 WEST, VANDERBURGH COUNTY, INDIANA.



NB STRUCTURE: 041-82-4998C

NOTE: SEE ROAD PLANS FOR REMOVAL OF EXISTING GUARDRAIL, PROPOSED GUARDRAIL, PAVEMENT MARKINGS, EROSION CONTROL MEASURES AND MAINTENANCE OF TRAFFIC DETAILS.

FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES, REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD RULES.



LATITUDE: 37°55'47" N. LONGITUDE: 87°32'54" W.

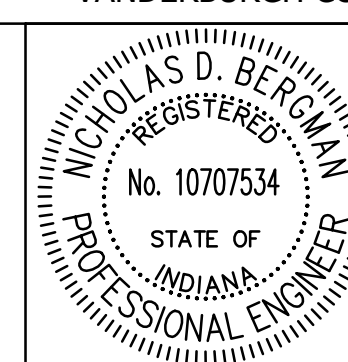
H.U.C. = 05140202010020

R.P. 0+43

VICINITY MAP
VANDERBURGH COUNTY

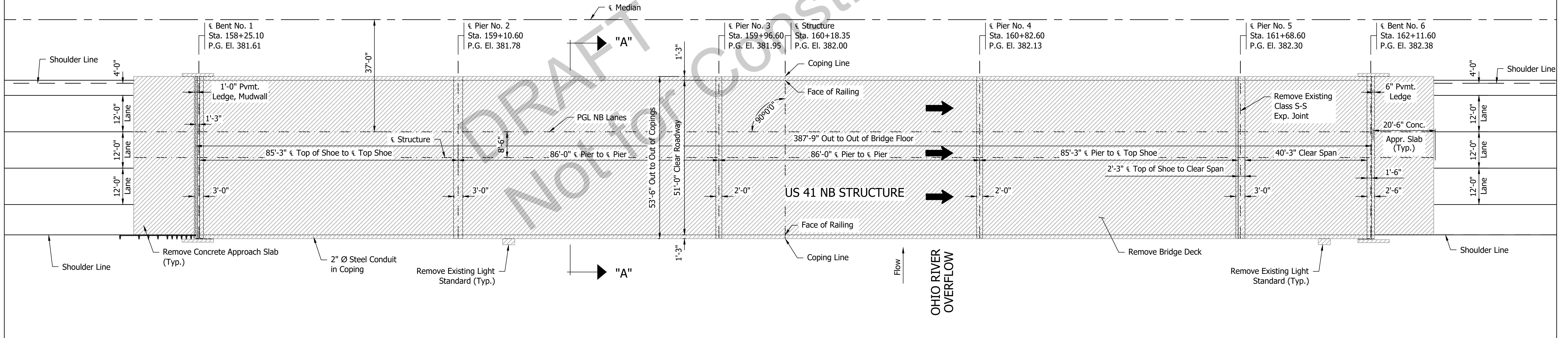
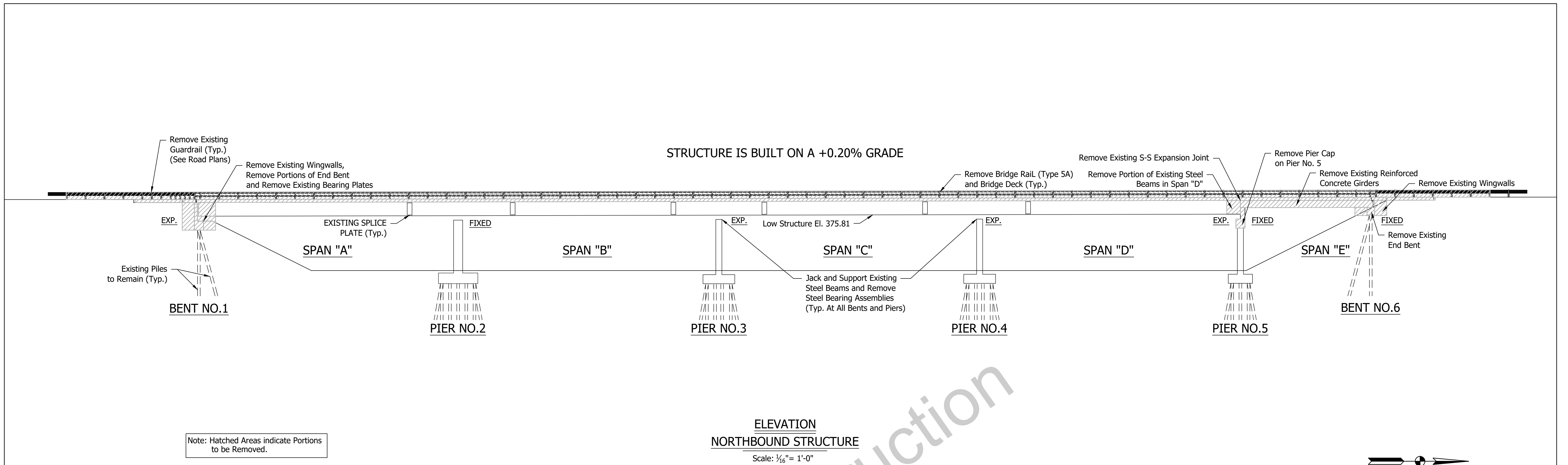
INDIANA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS DATED 2016 TO BE USED WITH THESE PLANS.

INFRASTRUCTURE ENGINEERING | INCORPORATED
2601 Fortune Circle East | Suite 202B | Indianapolis, IN 46241
P 317.243.9800 | F 317.243.9100 | www.infrastructure-eng.com



PLANS PREPARED BY: Infrastructure Engineering, Inc. (317) 243-9800
PHONE NUMBER
CERTIFIED BY: [Signature] 10/31/2016
DATE
APPROVED FOR LETTING: _____
INDIANA DEPARTMENT OF TRANSPORTATION DATE

BRIDGE FILE	
041-82-4998C	
DESIGNATION	
0200636	
SURVEY BOOK	SHEETS
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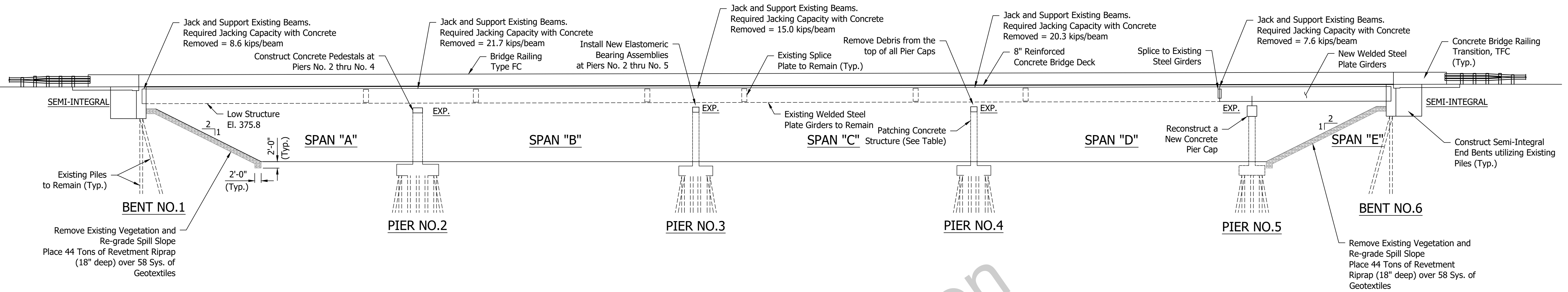
NOTES
See Sheet 4 for Proposed Structure General Plan.
See Sheet 6 for Existing Section "A-A"

CONTINUOUS WELDED STEEL PLATE GIRDER AND R.C. GIRDER BRIDGE

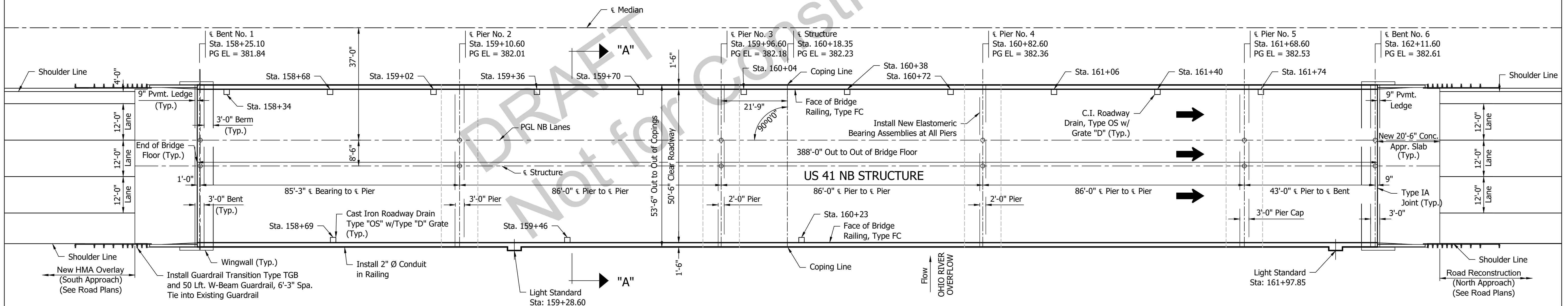
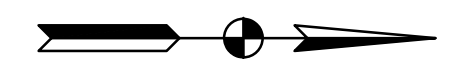
5 SPANS: 1 AT 85'-3", 2 AT 86'-0", 1 AT 85'-3" AND 1 AT 40'-3", NO SKEW,
51'-0" CLEAR ROADWAY ON U.S. 41 NB OVER OHIO RIVER OVERFLOW

	RECOMMENDED FOR APPROVAL	 DESIGN ENGINEER DATE: 10/31/2016	INDIANA DEPARTMENT OF TRANSPORTATION	HORIZONTAL SCALE AS NOTED VERTICAL SCALE AS NOTED	BRIDGE FILE 041-82-4998C DESIGNATION 0200636
	DESIGNED: EAS	DRAWN: GSB	GENERAL PLAN EXISTING STRUCTURE	SURVEY BOOK	SHEET 3 of 31
	CHECKED: NDB	CHECKED: NDB		CONTRACT B-33539	PROJECT 0200636

STRUCTURE IS BUILT ON A +0.20% GRADE



ELEVATION
NORTHBOUND STRUCTURE
Scale: 1/16" = 1'-0"



PLAN
NORTHBOUND STRUCTURE
Scale: 1/16" = 1'-0"

PIER NO.	QUANTITY (SFT)
2	10
3	5
4	40
5	40

Note: Remove areas of deteriorated concrete and patch as required. Galvanic Anodes will be installed at the Patching Areas. (Typ. at Piers No. 2 Thru Pier No. 5) (Total = 70 each)
Install 11 Snowplowable Raised Pavement Markers (Field Verify)

Note: See Road Plans for Removal of Existing Guardrail, Proposed Guardrail, Pavement Markings, Erosion Control Measures and Maintenance of Traffic Details.

NOTES
See Sheet 3 for Existing Structure General Plan
See Sheet 6 for Section "A-A", General Notes, Design Data, and Construction Loading.

CONTINUOUS WELDED PLATE GIRDER BRIDGE
5 SPANS: 1 AT 85'-6", 3 AT 86'-0" AND 1 AT 43'-0", NO SKEW, 50'-6" CLEAR ROADWAY ON U.S. 41 NB OVER OHIO RIVER OVERFLOW

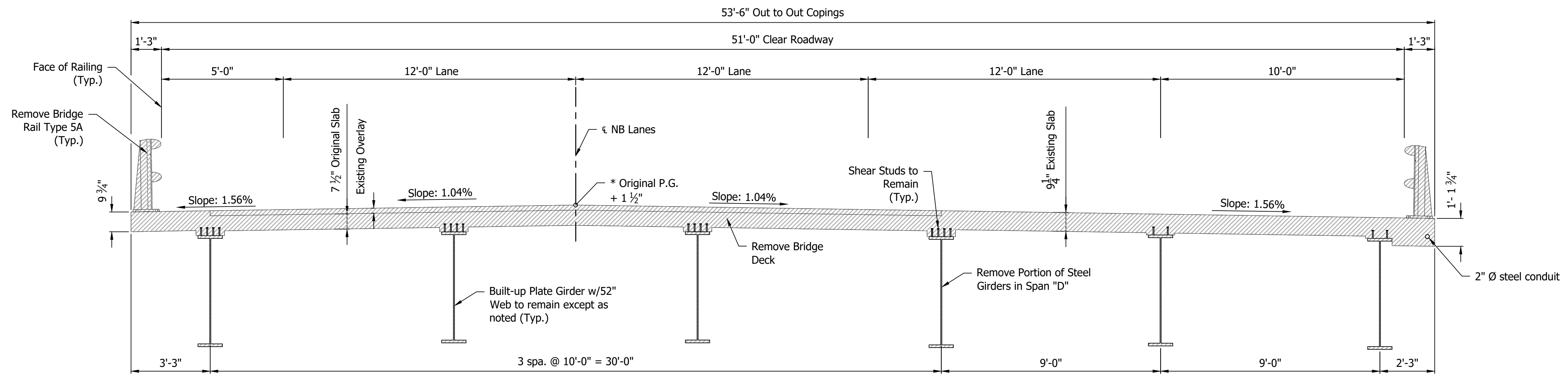


RECOMMENDED FOR APPROVAL	<i>[Signature]</i>	DESIGN ENGINEER	10/31/2016	DATE
DESIGNED:	EAS	DRAWN:	GSR	
CHECKED:	NDB	CHECKED:	NDB	

INDIANA
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN
PROPOSED STRUCTURE

HORIZONTAL SCALE	BRIDGE FILE
AS NOTED	041-82-4998C
VERTICAL SCALE	DESIGNATION
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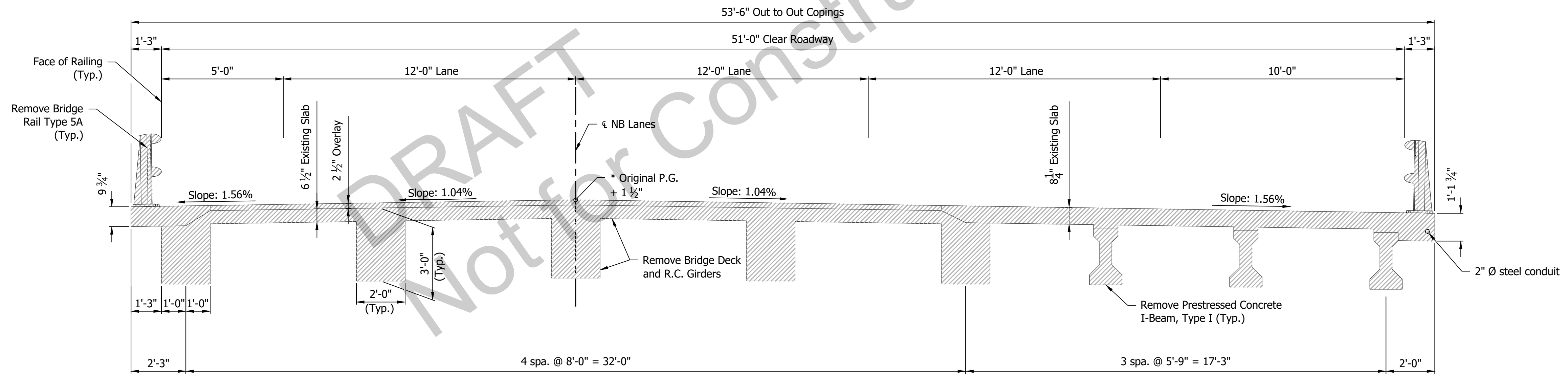


* Original Plans dated July 17, 1963

Note: Hatched Areas Indicate Portions to be Removed.

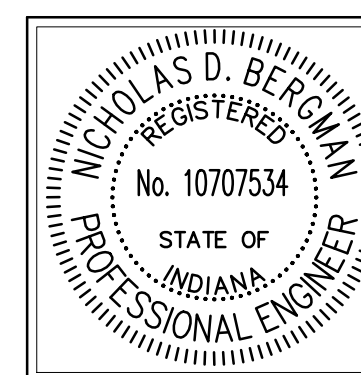
EXISTING SECTION "A-A"
SPANS "A" THRU "D"
NORTHBOUND STRUCTURE

Scale: 3/8" = 1'-0"



EXISTING SECTION "A-A"
SPAN "E"
NORTHBOUND STRUCTURE

Scale: 3/8" = 1'-0"



RECOMMENDED FOR APPROVAL	<i>[Signature]</i>	DESIGN ENGINEER	DATE
			10/31/2016
DESIGNED: EAS	DRAWN: GSB		
CHECKED: NDB	CHECKED: NDB		

INDIANA
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS

HORIZONTAL SCALE	BRIDGE FILE
AS NOTED	041-82-4998C
VERTICAL SCALE	DESIGNATION
AS NOTED	0200636
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GENERAL NOTES

Plans for the existing structure are on file at the Indiana Department of Transportation, as bridge file: 041-82-4998. The plans are available upon request.

Existing elevations and stations shown in the plans are taken from the existing plans of the structure and shall be verified by the Contractor prior to construction.

Where new work is to be fitted to old work, the contractor shall check all dimensions and conditions in the field and report all errors or discrepancies to the Engineer and assume responsibility for their correctness and the fit of the new part to the old.

All snowplowable raised pavement markers shall be removed and replaced. The cost of each operation shall be in accordance with respective pay items and will be paid according to the Specifications.

Reinforcing steel cover to be 2.5 inches in top and 1 inch in bottom of floor slabs, 3 inches in footing except bottom steel which shall be 4 inches, and 2 inches in all other parts unless noted.

All exposed faces of the end bent caps, concrete bridge railings, outside face of copings, exterior face of the exterior built-up girders and the bottom surface of the bottom flange of the built-up girders shall be surface sealed. The surface seal shall be paid for as surface seal, Isum.

DESIGN DATA

DESIGN STRENGTHS

Class "C" Concrete $f_c = 4,000$ psi
 Class "A" Concrete $f_c = 3,500$ psi

Reinforcing Steel $f_y = 60,000$ psi
 Structural Steel $f_y = 36,000$ psi

LIVE LOADS

Superstructure and substructure shall be designed for HS-20 loading in accordance with the 2002 LFD AASHTO Specification.

DEAD LOADS

Floor slab designed with a 7 1/2 inch structural depth and 1/2 inch integral wearing surface.

Actual weight plus 35 psf (composite) for future wearing surface and 15 psf (non-composite) for permanent metal deck forms.

CONSTRUCTION LOADS

The exterior girder has been checked for strength, deflection and overturning using the construction loads shown below. Cantilever overhang brackets were assumed for support of the deck overhang past the edge of the exterior girder. The finish machine was assumed to be supported 6 inches past the edge of the vertical coping form. The bottom overhang brackets were assumed to be braced against the intersection of the girder bottom flange and web.

Deck falsework loads: Designed for 15 psf for permanent metal stay-in-place deck form, removable deck forms, and 2-ft exterior walkway.

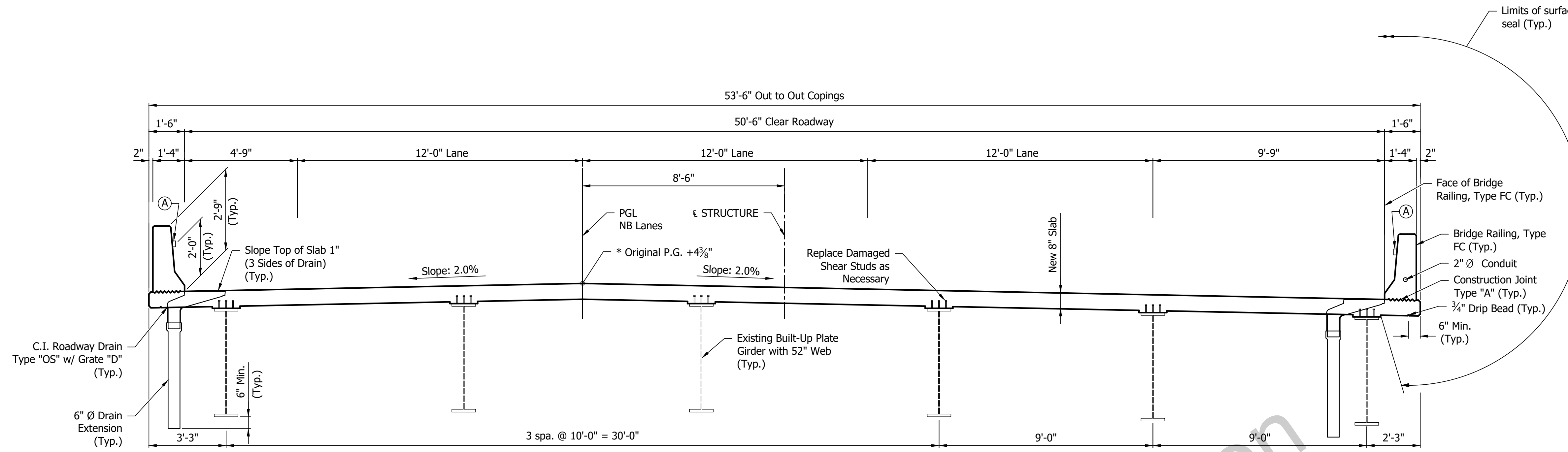
Construction live loads: Designed for 20 psf extending 2 ft. past the edge of coping and 75 lb/ft vertical force applied at a distance of 6 inches outside the face of coping over a 30-ft length of the deck centered with the finishing machine.

Finishing-Machine Load: 4500 lb distributed over 10 ft along the coping.

Wind Load: Designed for 70 mph horizontal wind loading of 26 psf in accordance with AASHTO guide design specifications for Bridge Temporary Work (1995), figure 2.1.

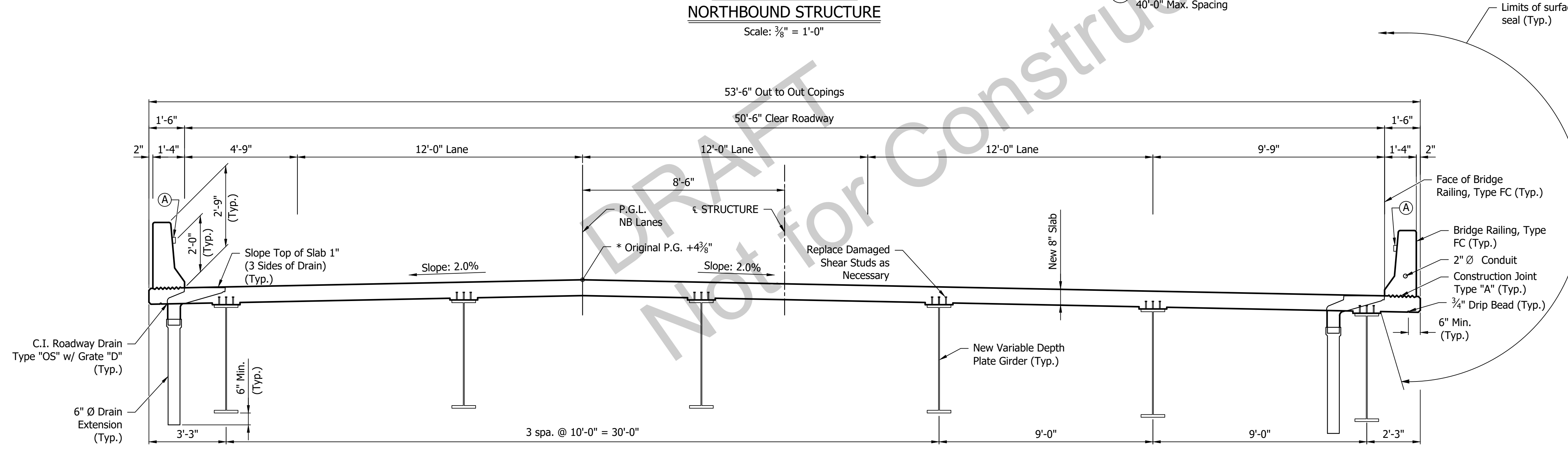
SEISMIC LOAD

Seismic Zone 2
 The Geotechnical Report Defines the Soil as Site Class D.
 Acceleration Coefficient (S_D) = 0.257



PROPOSED SECTION "A-A"
SPANS "A" THRU "D"
NORTHBOUND STRUCTURE
 Scale: 3/8" = 1'-0"

* Original Plans dated July 17, 1963



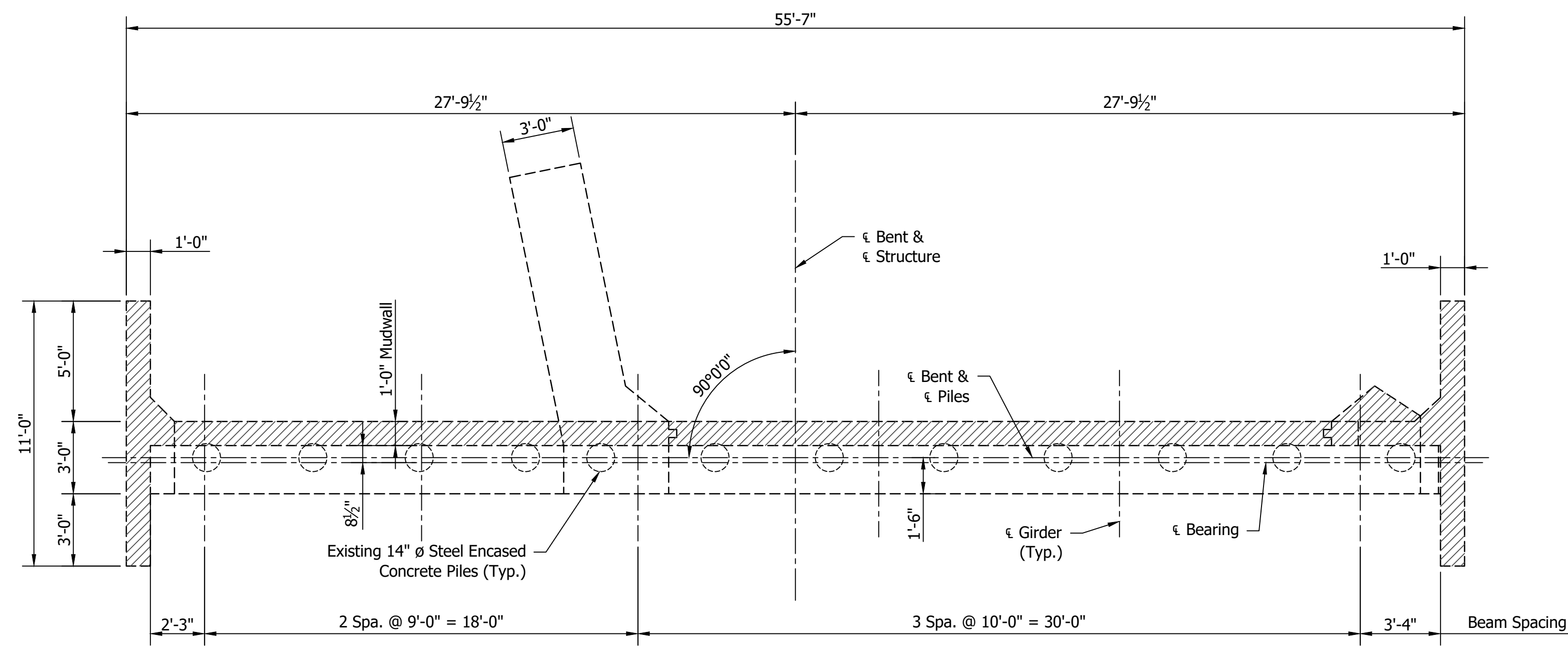
PROPOSED SECTION "A-A"
SPAN "E"
NORTHBOUND STRUCTURE
 Scale: 3/8" = 1'-0"



RECOMMENDED FOR APPROVAL	<i>[Signature]</i>	DESIGN ENGINEER	10/31/2016	DATE
DESIGNED:	EAS	DRAWN:	GSB	
CHECKED:	NDB	CHECKED:	NDB	

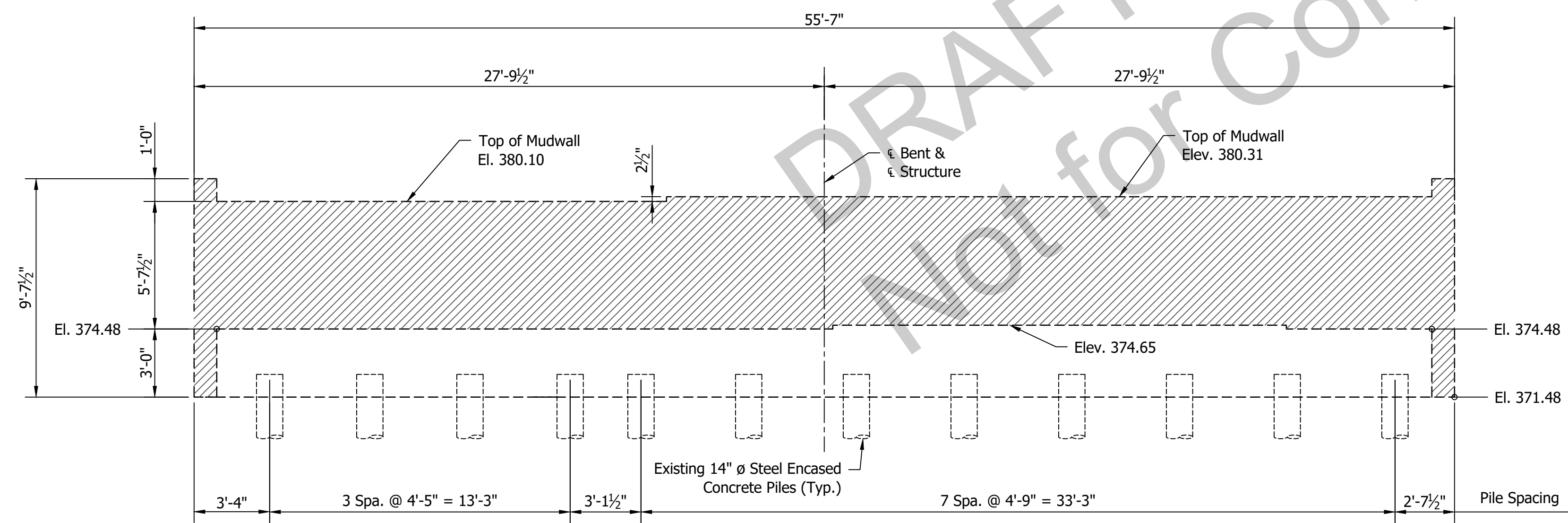
INDIANA DEPARTMENT OF TRANSPORTATION
TYPICAL SECTIONS PROPOSED STRUCTURE

HORIZONTAL SCALE	BRIDGE FILE
AS NOTED	041-82-4998C
VERTICAL SCALE	DESIGNATION
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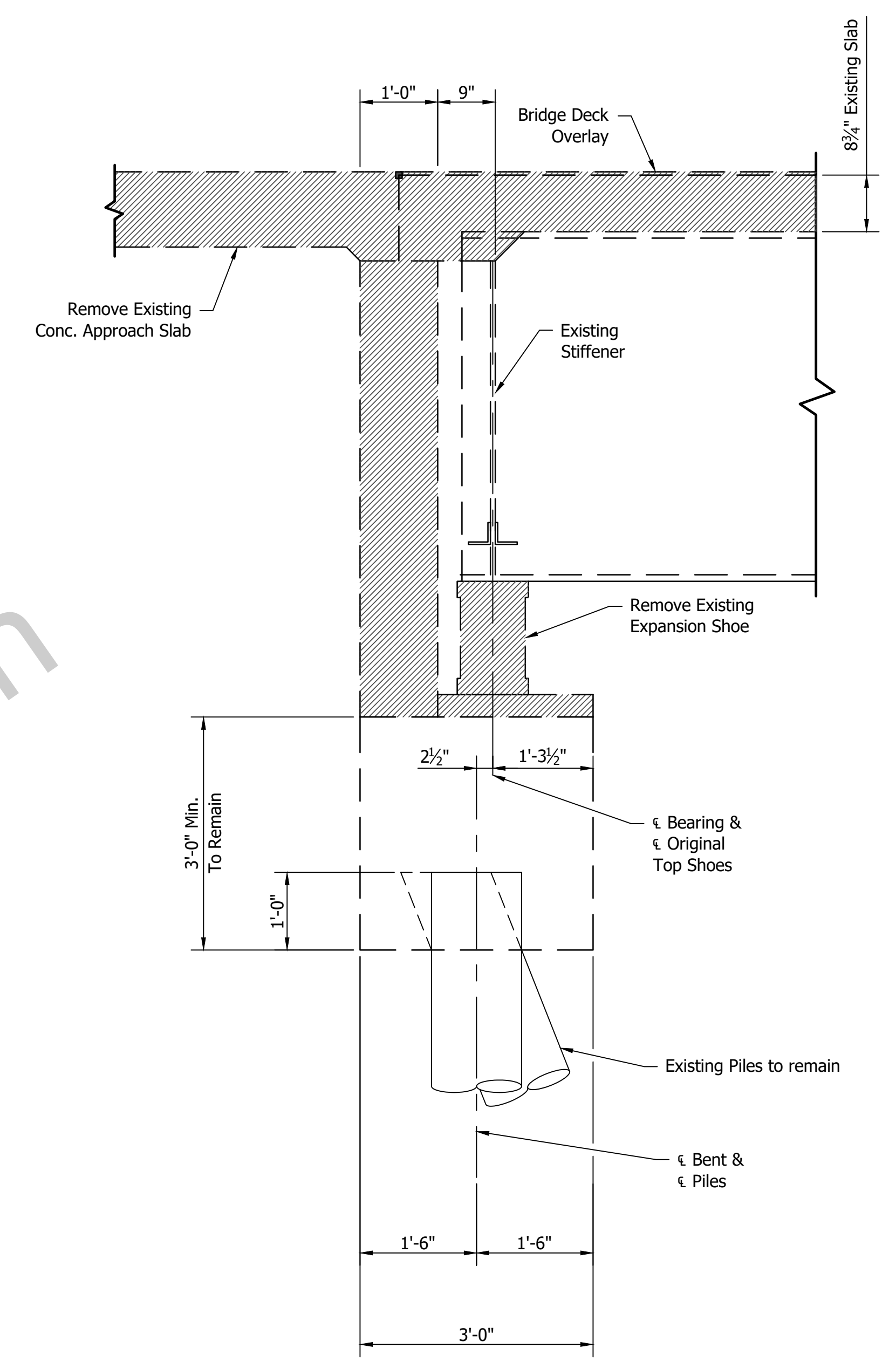


PLAN
Scale: 1/4" = 1'-0"

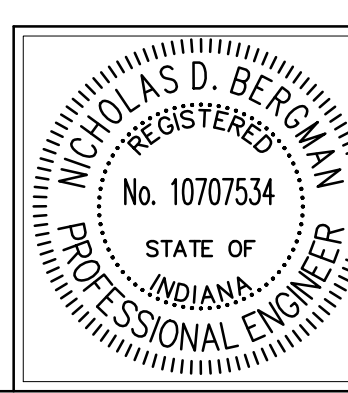
Note: Hatched Areas indicate portions to be Removed.



ELEVATION
Scale: 1/4" = 1'-0"



SECTION AT BENT NO. 1
(SHOWING REMOVALS)
Scale: 3/4" = 1'-0"

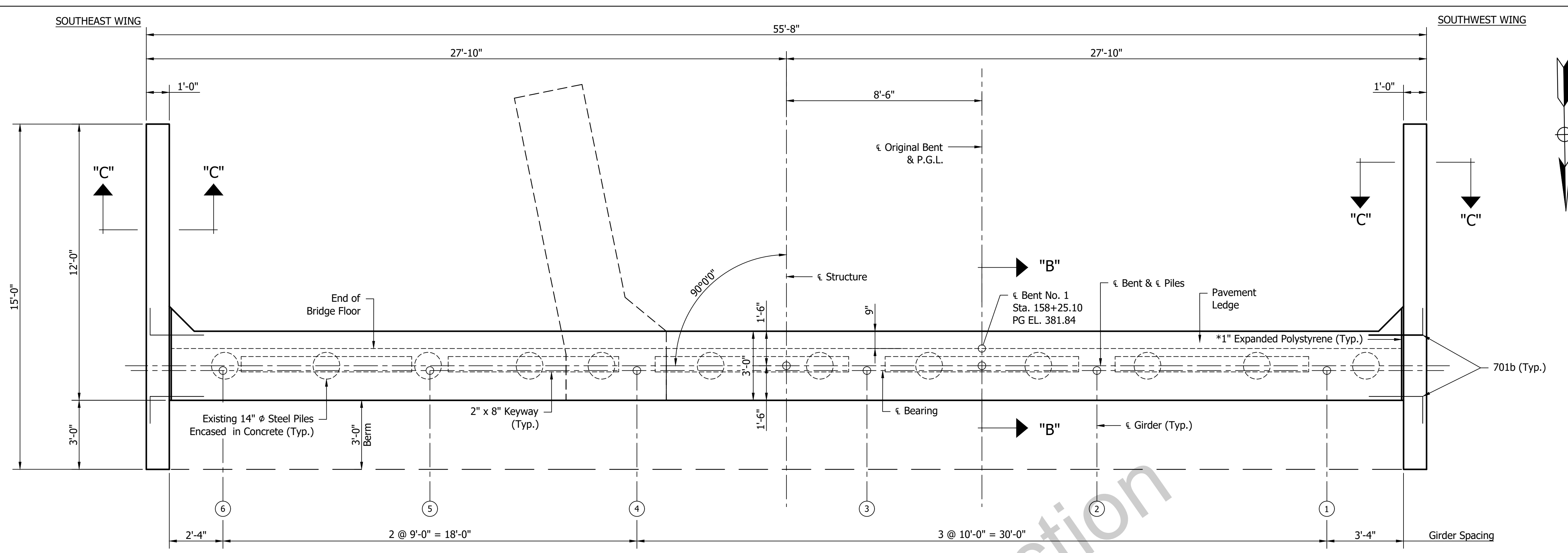


RECOMMENDED FOR APPROVAL	<i>[Signature]</i>	DESIGN ENGINEER	DATE
			10/31/2016
DESIGNED:	EAS	DRAWN:	GSR
CHECKED:	NDB	CHECKED:	NDB

INDIANA
DEPARTMENT OF TRANSPORTATION

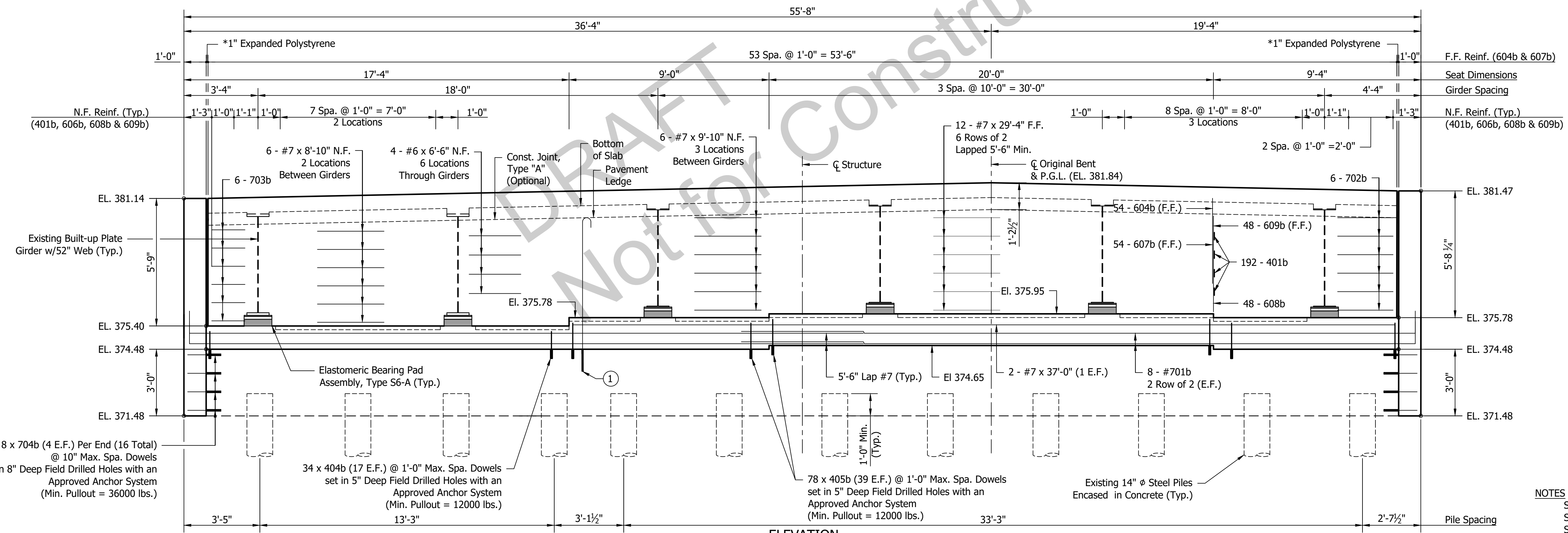
BENT NO. 1 DETAILS
NORTHBOUND STRUCTURE

HORIZONTAL SCALE	BRIDGE FILE
AS NOTED	041-82-4998C
VERTICAL SCALE	DESIGNATION
AS NOTED	0200636
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PLAN
Scale: 3/8" = 1'-0"

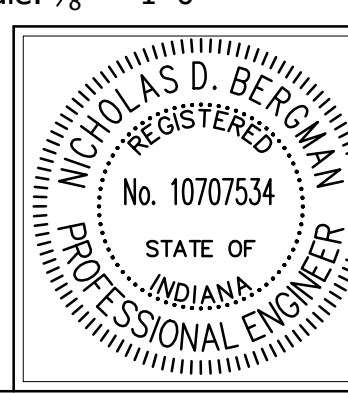
* See Special Provisions



ELEVATION
Scale: 3/8" = 1'-0"

① 48 x 606b set in 1'-0" Field Drilled Holes with an Approved Anchor System (Min. Pullout = 26500 Lbs.) @ 1'-0" Max. Spa.

NOTES
See Sheet 7 for Removal Details
See Sheet 9 for Section "B-B"
See Sheet 10 for Wingwall Details and Section "D-D"
See Sheet 11 for Bar Bending Details and Bill of Materials

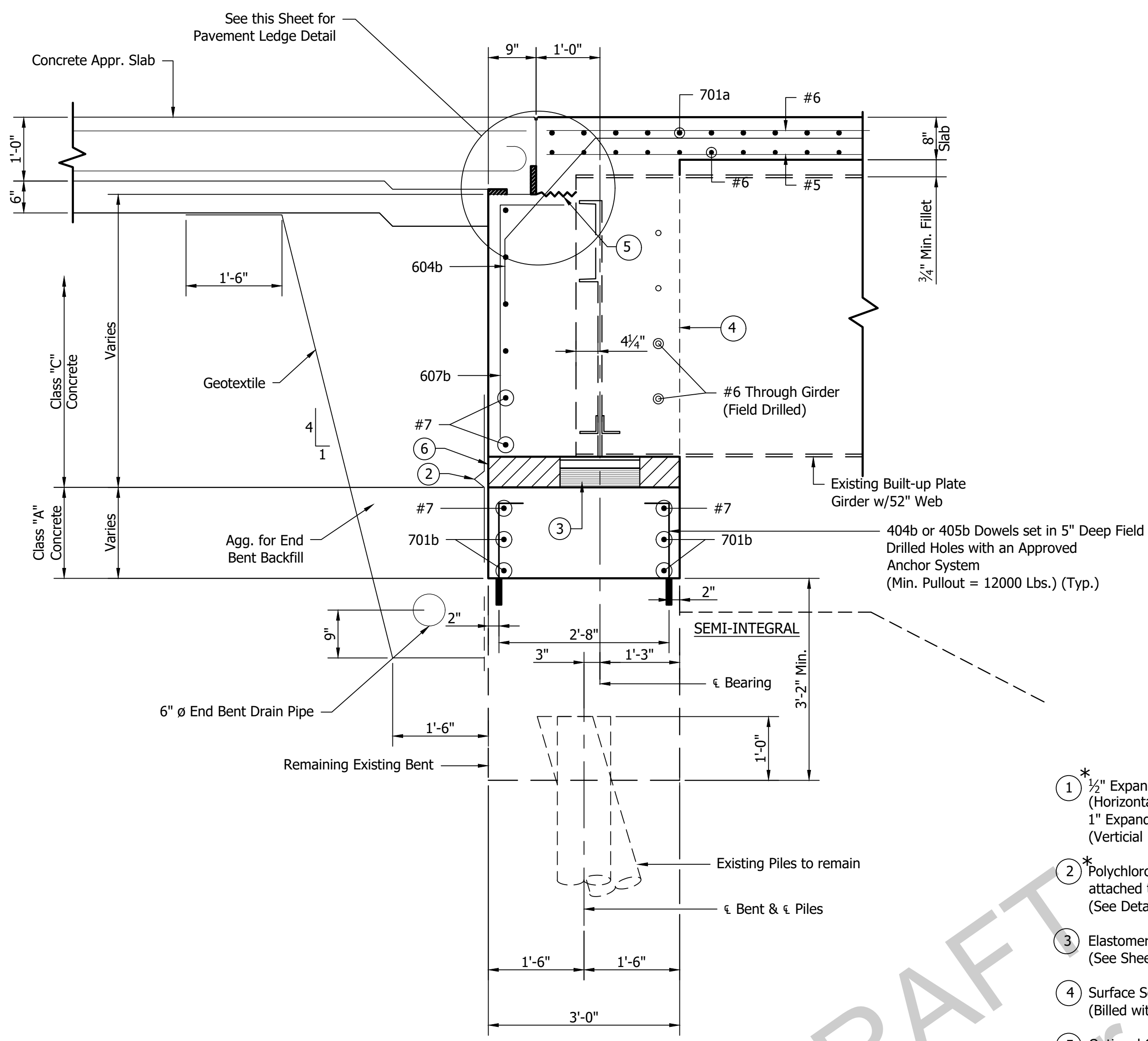


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CHECKED:	NDB	CHECKED:	NDB	

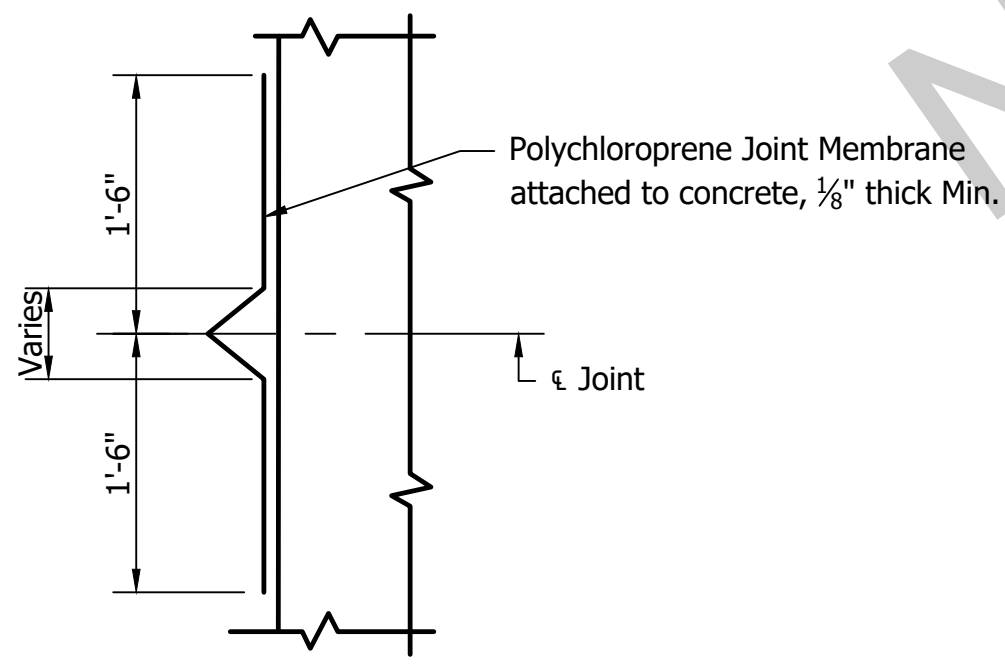
INDIANA
DEPARTMENT OF TRANSPORTATION

BENT NO. 1 DETAILS
NORTHBOUND STRUCTURE

HORIZONTAL SCALE	BRIDGE FILE
AS NOTED	041-82-4998C
VERTICAL SCALE	DESIGNATION
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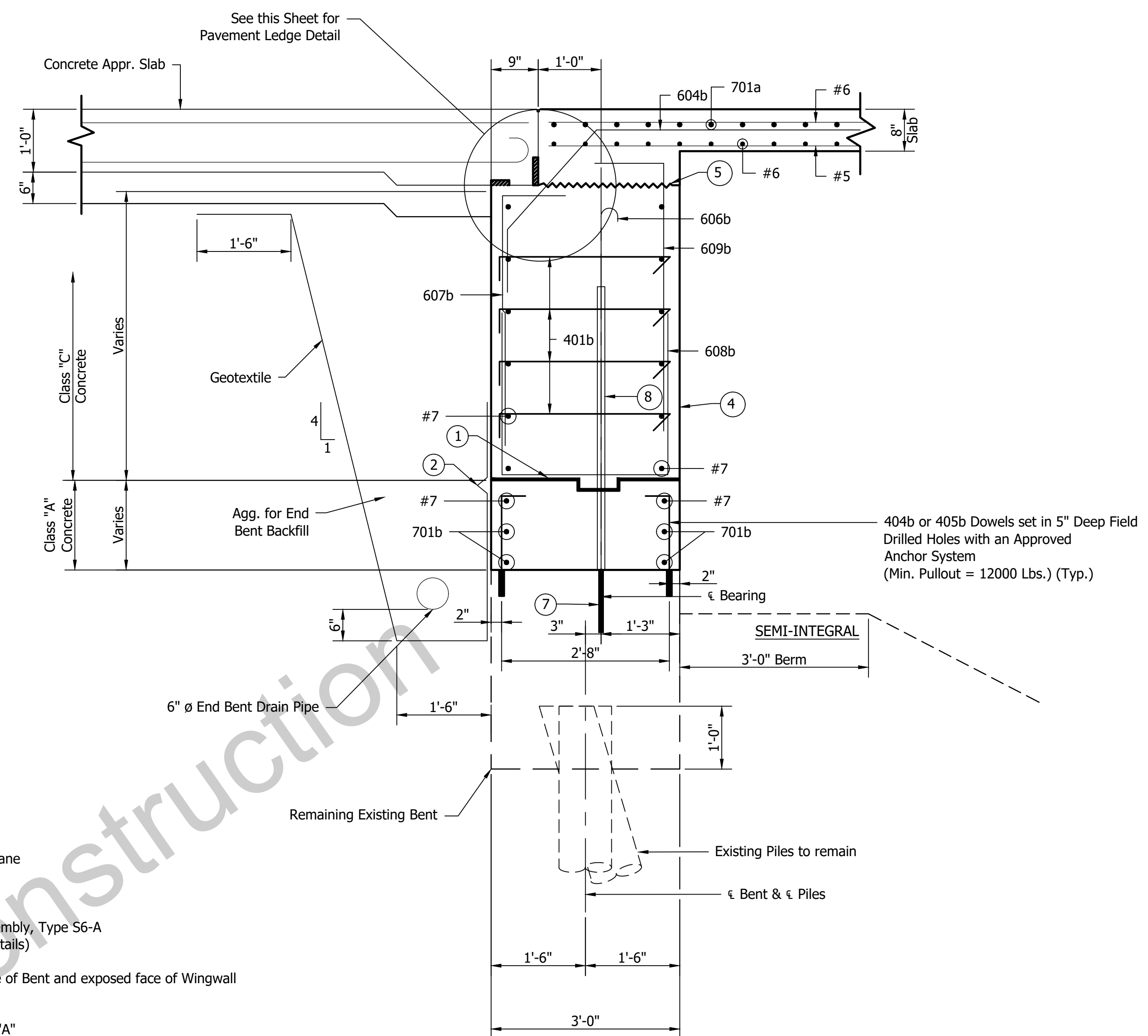


**SECTION "B-B"
AT BEAMS**
Scale: 3/4" = 1'-0"

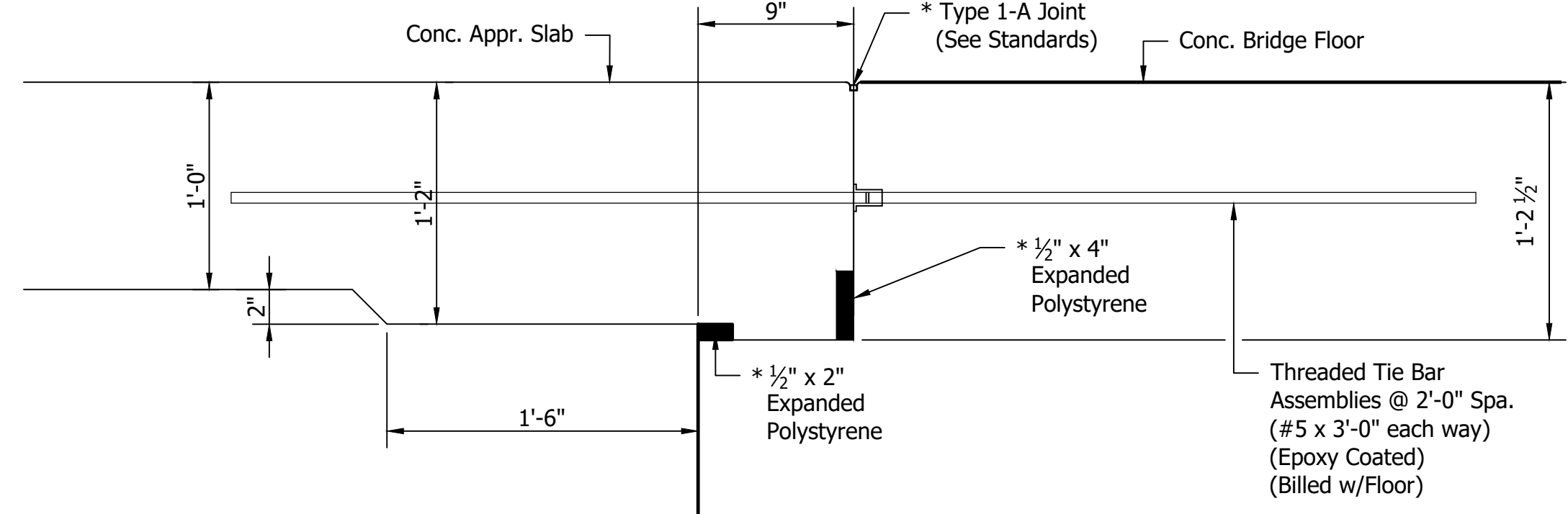


JOINT MEMBRANE DETAIL
Not to Scale

- ① * 1/2" Expanded Polystyrene (Horizontal Face)
1" Expanded Polystyrene (Vertical Face)
 - ② * Polychloroprene Joint Membrane attached to concrete. (See Detail this Sheet)
 - ③ Elastomeric Bearing Pad Assembly, Type S6-A (See Sheet 19 for Bearing Details)
 - ④ Surface Seal required on face of Bent and exposed face of Wingwall (Billed with Floor)
 - ⑤ Optional Constr. Joint, Type "A"
 - ⑥ * Expanded Polystyrene cut to clear Bearing Pad by 1/2" on all sides
 - ⑦ 606b set in 1'-0" Field Drilled Holes with an Approved Anchor System (Min. Pullout = 26500 Lbs.)
 - ⑧ * PVC Pipe Sleeve, 4" Dia. Schedule 40 Top of Sleeve to be Sealed before Concrete is Poured.
- * See Special Provisions

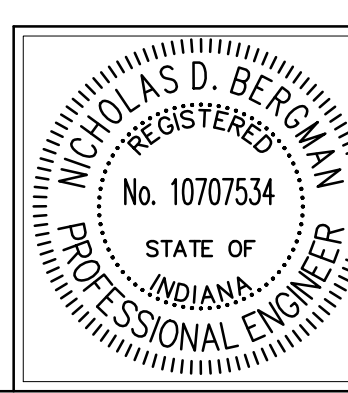


**SECTION "B-B"
BETWEEN BEAMS**
Scale: 3/4" = 1'-0"



PAVEMENT LEDGE DETAIL
Not to Scale

NOTES
See Sheet 7 for Removal Details.
See Sheet 11 for Bar Bending Details and Bill of Materials.

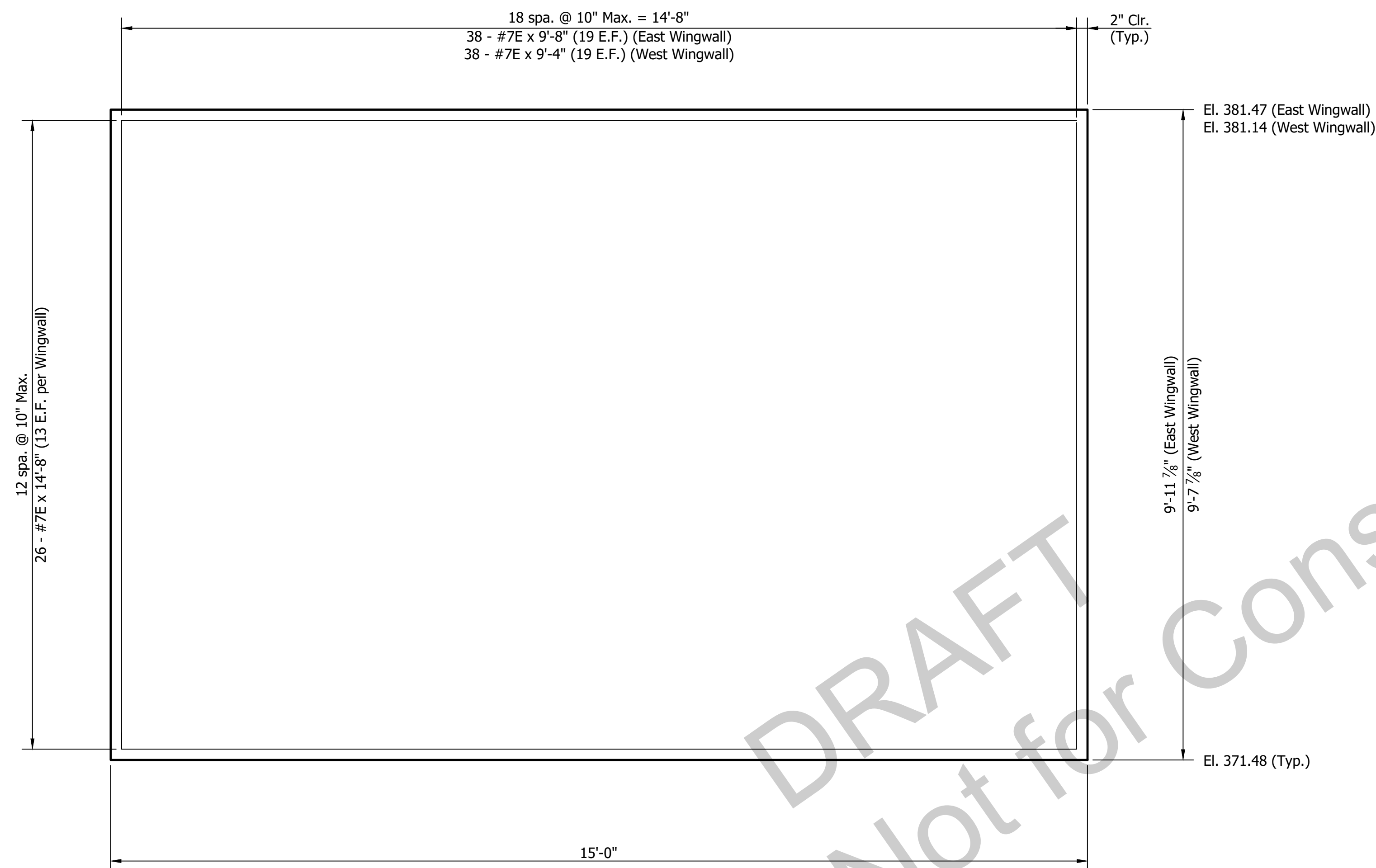


RECOMMENDED FOR APPROVAL	<i>[Signature]</i>	DESIGN ENGINEER	DATE
			10/31/2016
DESIGNED:	EAS	DRAWN:	GSR
CHECKED:	NDB	CHECKED:	NDB

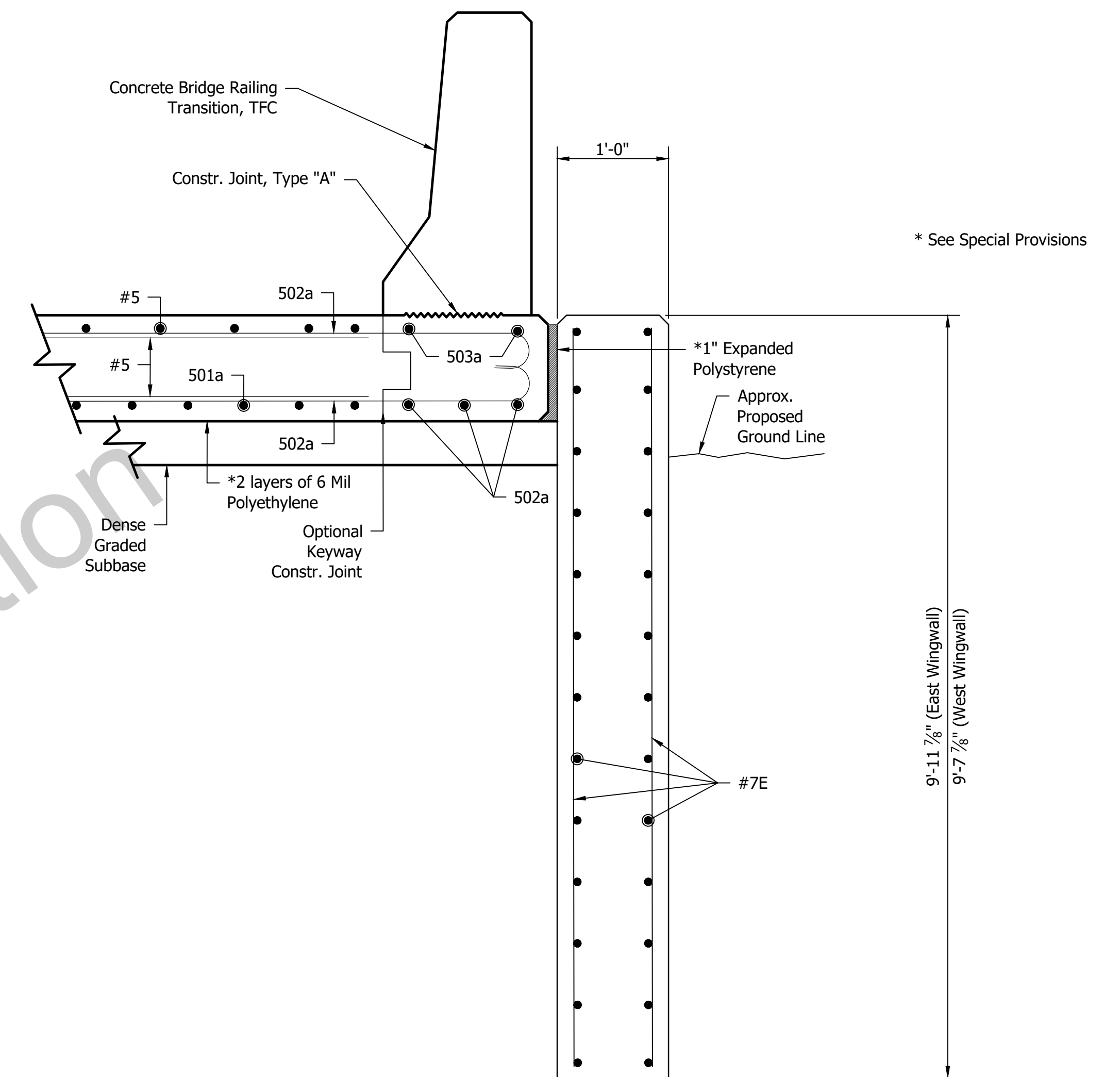
INDIANA
DEPARTMENT OF TRANSPORTATION

**BENT NO. 1 DETAILS
NORTHBOUND STRUCTURE**

HORIZONTAL SCALE	BRIDGE FILE
AS NOTED	041-82-4998C
VERTICAL SCALE	DESIGNATION
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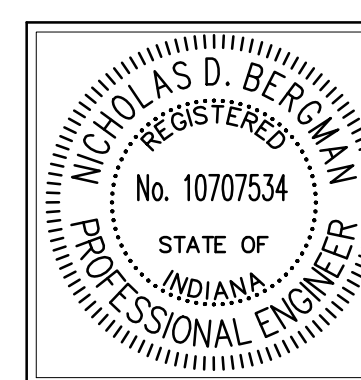


TYPICAL WINGWALL DETAIL
(2 Ea. Similar)
Scale: 3/4" = 1'-0"



SECTION "C-C"
Not to Scale

NOTES
See Sheet 7 for Removal Details.
See Sheet 11 for Bar Bending Details and
Bill of Materials.

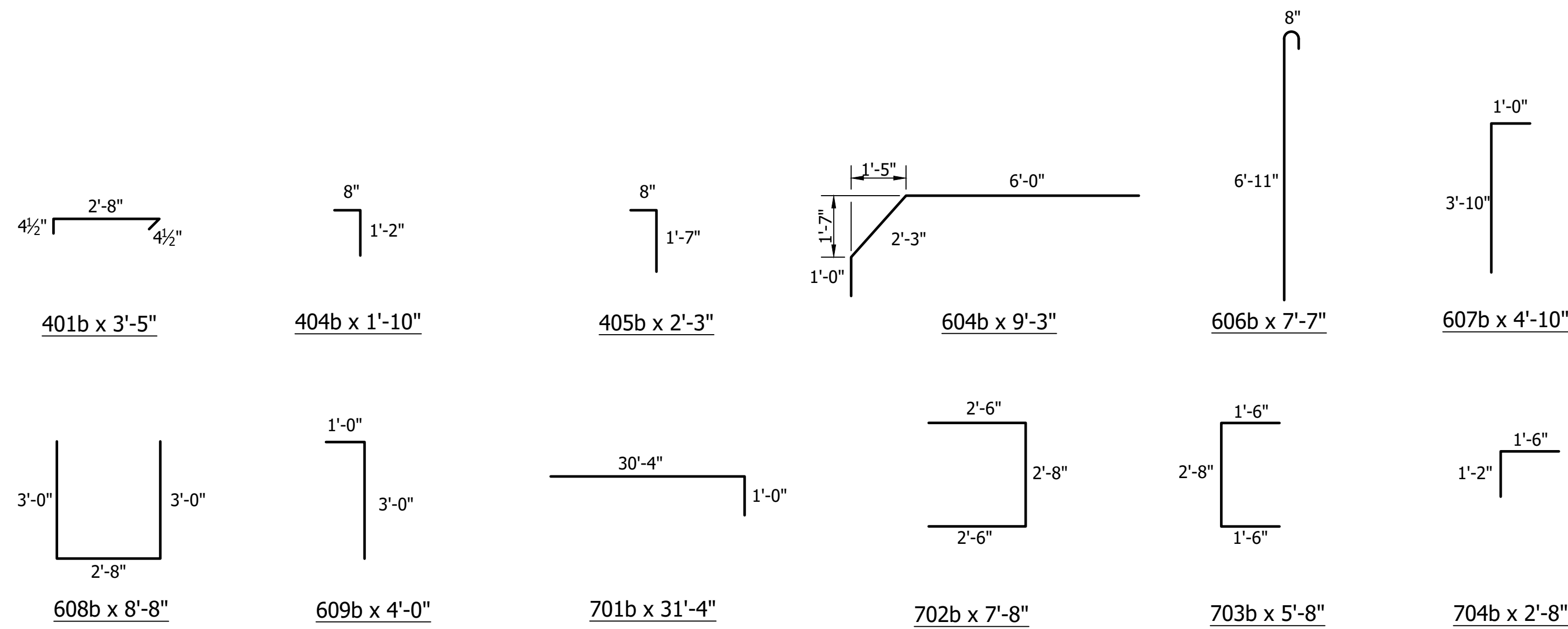


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			10/31/2016
DESIGNED:	EAS	DRAWN:	GSR
CHECKED:	NDB	CHECKED:	NDB

INDIANA
DEPARTMENT OF TRANSPORTATION

BENT NO. 1 DETAILS
NORTHBOUND STRUCTURE

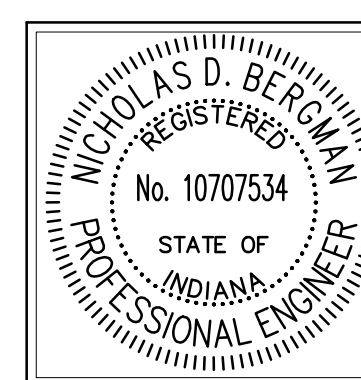
HORIZONTAL SCALE	BRIDGE FILE
AS NOTED	041-82-4998C
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AS NOTED	0200636
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BAR BENDING DIAGRAM
Not to Scale

DRAFT
Not for Construction

BILL OF MATERIALS			
END BENT NO. 1			
NORTHBOUND STRUCTURE			
REINFORCING BARS			
Mark or Size	No. of Bars	Length (Ft.)	Weight (Lbs.)
701b	8	31'- 4"	
702b	6	7'- 8"	
703b	6	5'- 8"	
705b	16	2'- 8"	
#7	2	37'- 0"	
#7	12	29'- 4"	
#7	52	14'- 8"	
#7	18	9'- 10"	
#7	38	9'- 8"	
#7	38	9'- 4"	
#7	12	8'- 10"	
Total #7 (Epoxy Coated)			5,246
604b	54	9'- 3"	
606b	48	7'- 7"	
607b	54	4'- 10"	
608b	48	8'- 8"	
609b	48	4'- 0"	
#6	24	6'- 6"	
Total #6 (Epoxy Coated)			2,836
401b	192	3'- 5"	
404b	34	1'- 10"	
405b	78	2'- 3"	
Total #4 (Epoxy Coated)			597
Total Steel (Epoxy Coated)			8,679
CONCRETE			
Class "C" in Superstructure			28.8 Cys.
Class "A" in Substructure			
Cap			7.6 Cys.
Wingwalls			11.0 Cys.
Total Class "A" Concrete			18.6 Cys.
MISCELLANEOUS			
6" ø End Bent Drain Pipe			70 Lft.
Aggregate for End Bent Backfill			47 Cys.
Elastomeric Bearing Assembly			6 Each
Geotextile			118 Sys.
Field Drilled Holes in Concrete			176 Each

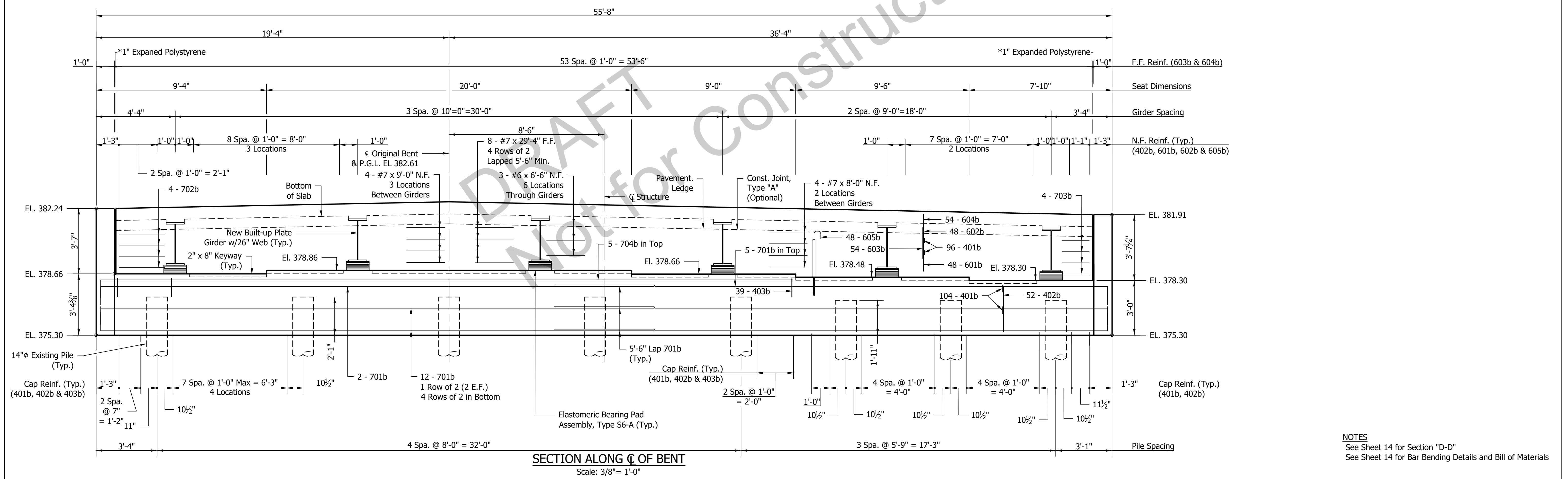
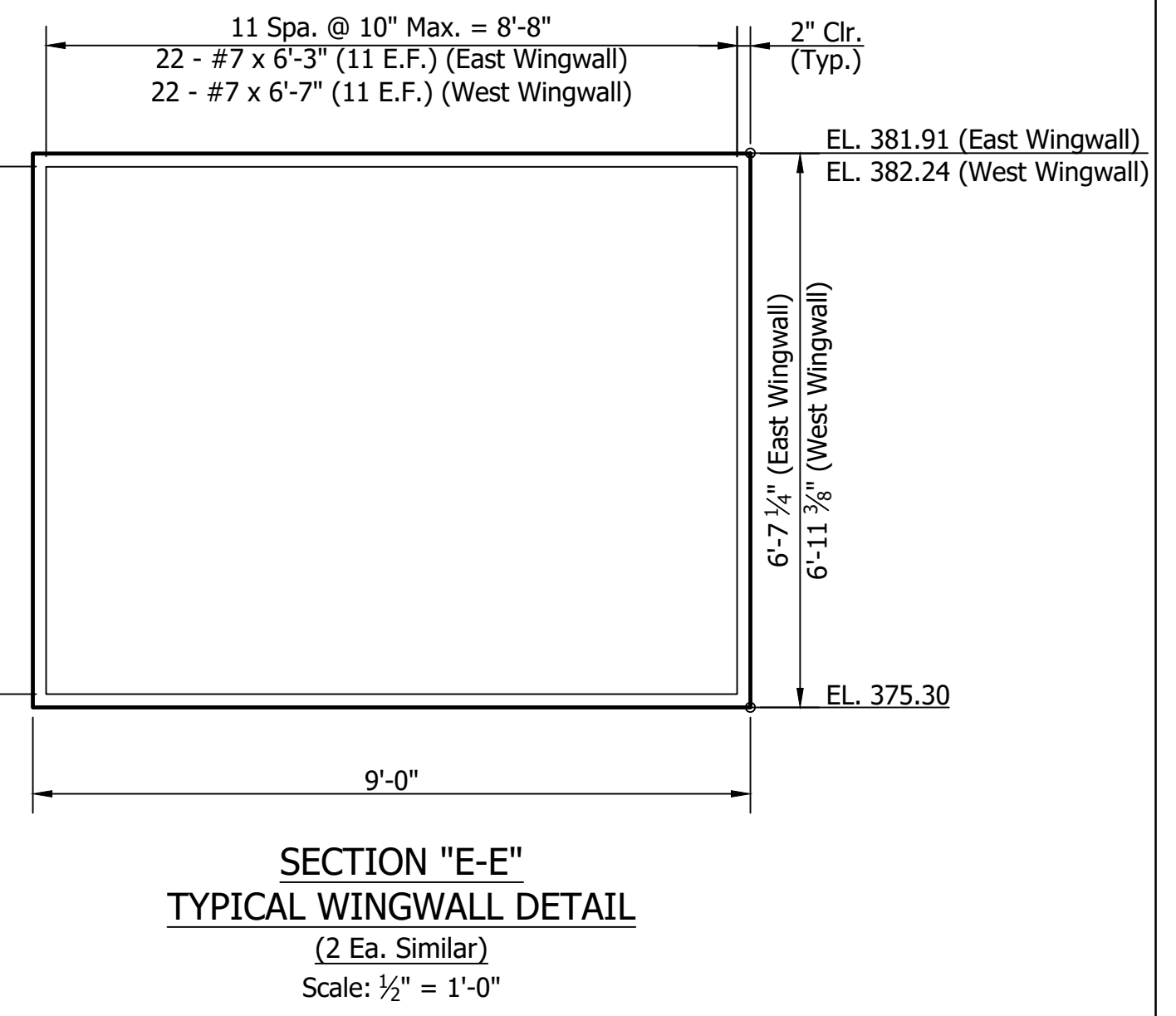
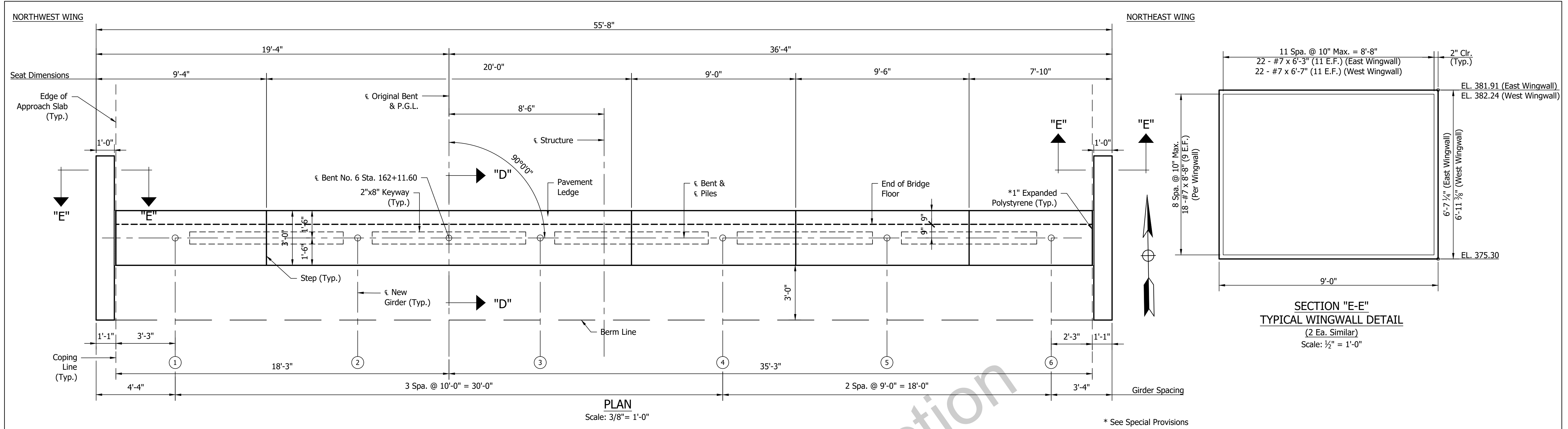


RECOMMENDED FOR APPROVAL		10/31/2016
DESIGNED: EAS	DRAWN: GSB	DATE
CHECKED: NDB	CHECKED: NDB	

INDIANA
DEPARTMENT OF TRANSPORTATION

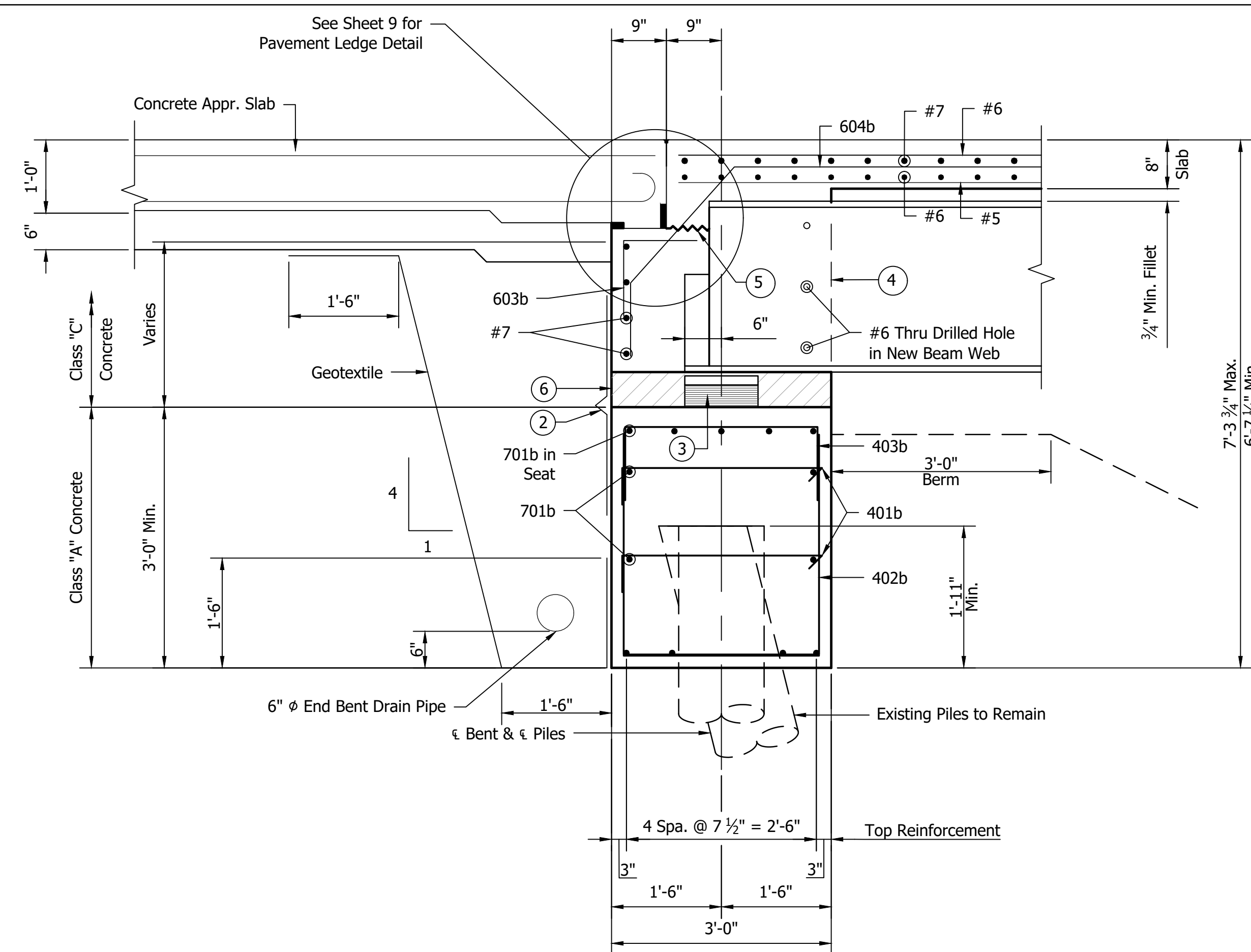
BENT NO. 1 DETAILS
NORTHBOUND STRUCTURE

HORIZONTAL SCALE	BRIDGE FILE
AS NOTED	041-82-4998C
VERTICAL SCALE	DESIGNATION
AS NOTED	0200636
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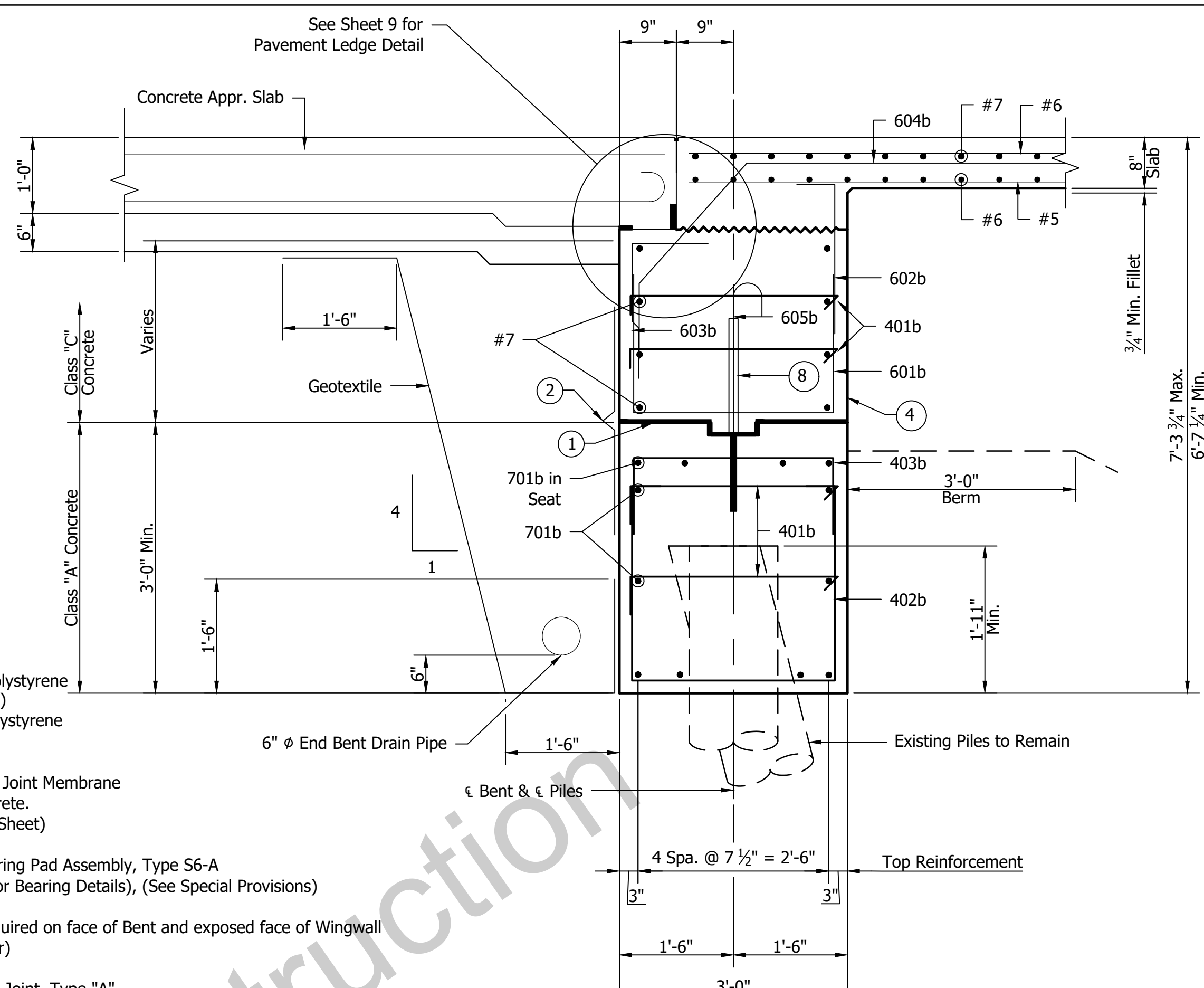


NOTES
See Sheet 14 for Section "D-D"
See Sheet 14 for Bar Bending Details and Bill of Materials

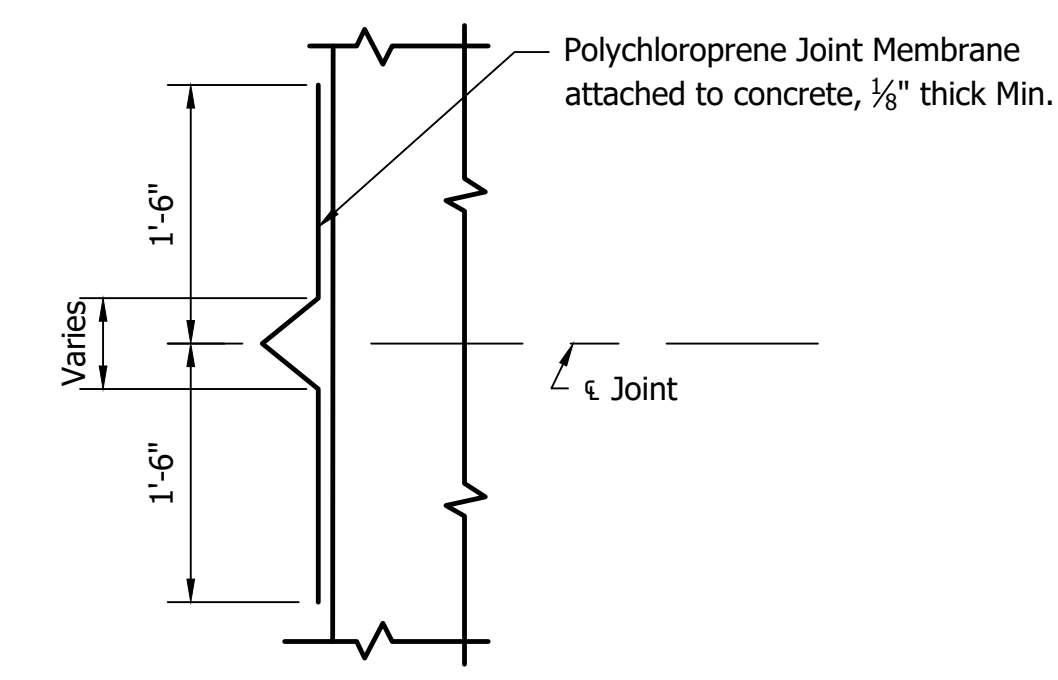
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	DESIGNED: EAS		DRAWN: GSB	VERTICAL SCALE AS NOTED	DESIGNATION 0200636
	CHECKED: NDB		CHECKED: NDB	SURVEY BOOK	SHEET 13 of 31
			CONTRACT B-33539	PROJECT 0200636	



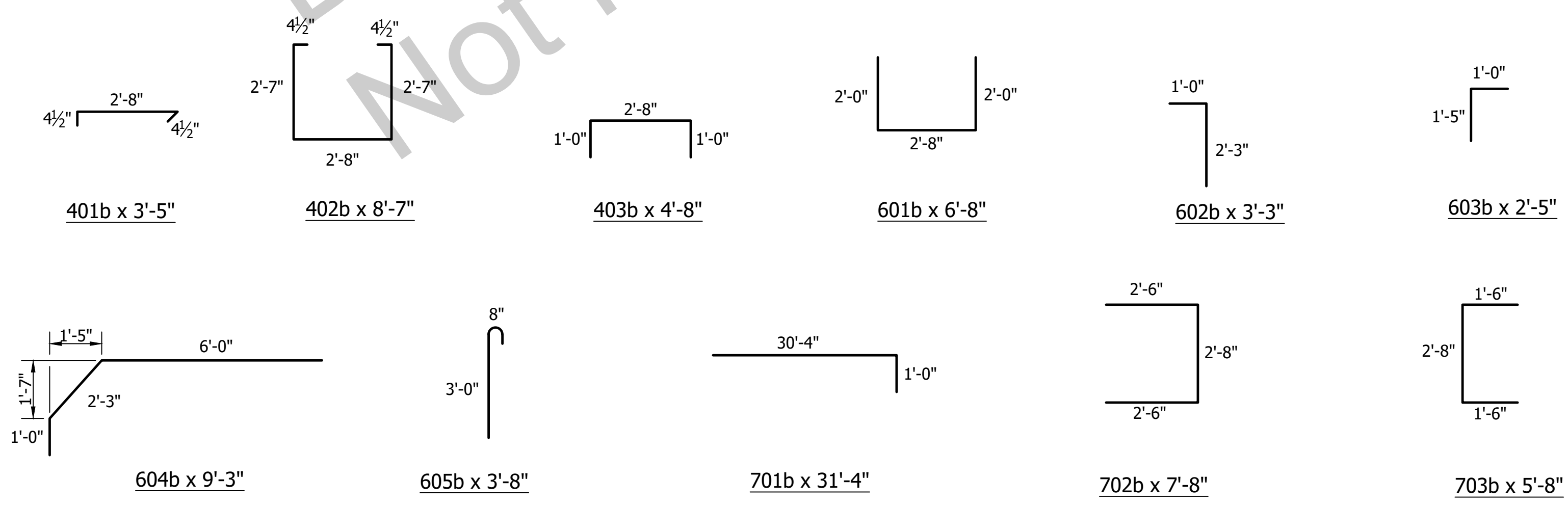
**SECTION "D-D"
AT BEAMS**
Scale: 3/4" = 1'-0"



**SECTION "D-D"
BETWEEN BEAMS**
Scale: 3/4" = 1'-0"



JOINT MEMBRANE DETAIL
Not to Scale

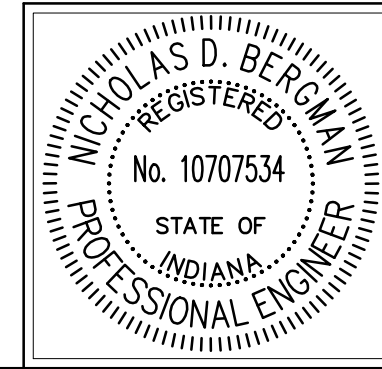


BAR BENDING DIAGRAM
Not to Scale

- 1 * 1/2" Expanded Polystyrene (Horizontal Face)
1" Expanded Polystyrene (Vertical Face)
 - 2 * Polychloroprene Joint Membrane attached to concrete. (See Detail this Sheet)
 - 3 * Elastomeric Bearing Pad Assembly, Type S6-A (See Sheet 19 for Bearing Details), (See Special Provisions)
 - 4 * Surface Seal required on face of Bent and exposed face of Wingwall (Billed with Floor)
 - 5 * Optional Constr. Joint, Type "A"
 - 6 * Expanded Polystyrene cut to clear Bearing Pad by 1/2"
 - 7 * 606b set in 1'-0" Field Drilled Holes with an Approved Anchor System (Min. Pullout = 26500 Lbs.)
 - 8 * PVC Pipe Sleeve, 4" Dia. Schedule 40 Top of Sleeve to be Sealed before Concrete is Poured.
- * See Special Provisions

BILL OF MATERIALS			
BENT NO. 6			
NORTHBOUND STRUCTURE			
REINFORCING BARS			
Mark or Size	No. of Bars	Length (Ft.)	Weight (Lbs.)
701b	24	31'- 4"	
702b	4	7'- 8"	
703b	4	5'- 8"	
704b	5	38'- 11"	
#7	8	29'- 4"	
#7	12	9'- 0"	
#7	36	8'- 8"	
#7	8	8'- 0"	
#7	22	6'- 7"	
#7	22	6'- 3"	
Total #7 (Epoxy Coated)			4,091
601b	48	6'- 8"	
602b	48	3'- 3"	
603b	54	2'- 5"	
604b	54	9'- 3"	
605b	48	3'- 8"	
#6	18	6'- 6"	
Total #6 (Epoxy Coated)			2,101
401b	200	3'- 5"	
402b	52	8'- 7"	
403b	39	4'- 8"	
Total #4 (Epoxy Coated)			876
Total Steel (Epoxy Coated)			7,068
CONCRETE			
Class "C" in Superstructure			16.1 Cys.
Class "A" in Substructure			
Cap			19.5 Cys.
Wingwalls			4.6 Cys.
Total Class "A" Concrete			24.1 Cys.
MISCELLANEOUS			
6" Dia. End Bent Drain Pipe			70 Lft.
Aggregate for End Bent Backfill			26 Cys.
Geotextile			105 Sys.
Field Drilled Holes in Concrete			48 Each

NOTES
See Sheet 12 for Removal Details.
See Special Provisions for Elastomeric Bearing Assembly

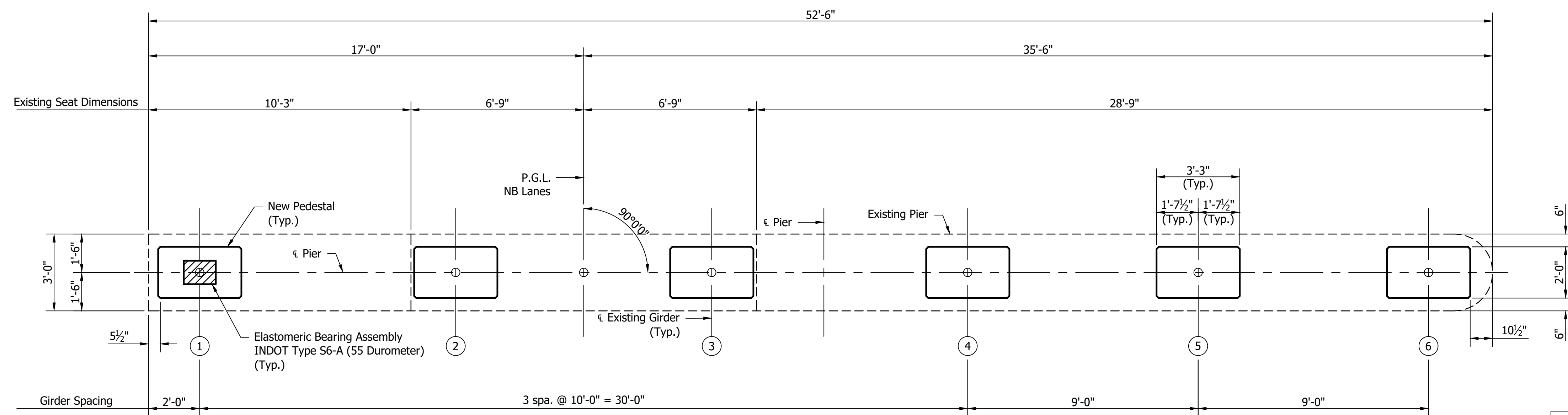


RECOMMENDED FOR APPROVAL	<i>[Signature]</i>	DESIGN ENGINEER	10/31/2016	DATE
DESIGNED:	EAS	DRAWN:	GSB	
CHECKED:	NDB	CHECKED:	NDB	

INDIANA
DEPARTMENT OF TRANSPORTATION

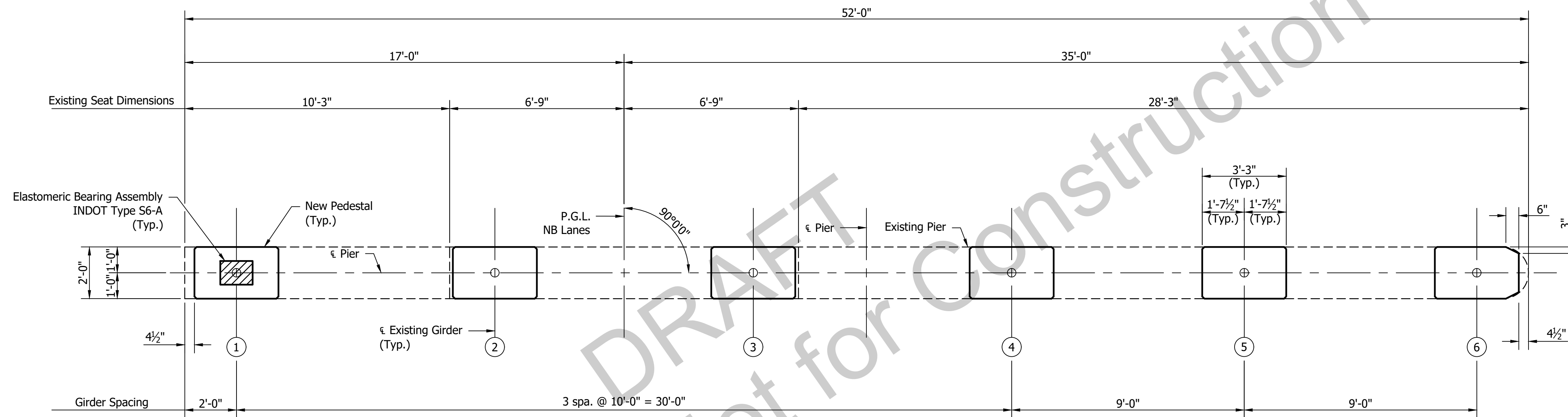
**BENT NO. 6 DETAILS
NORTHBOUND STRUCTURE**

HORIZONTAL SCALE	BRIDGE FILE
AS NOTED	041-82-4998C
VERTICAL SCALE	DESIGNATION
AS NOTED	0200636
SURVEY BOOK	SHEET
	14 of 31
CONTRACT	PROJECT
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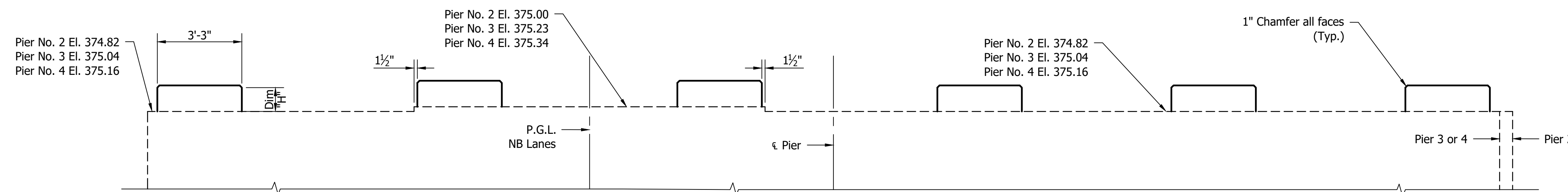
PLAN PIER NO. 2
Scale: 3/8" = 1'-0"

Note: Remove all Existing Pedestals at Piers No. 3 and No. 4



PLAN PIER NO. 3 OR 4
Scale: 3/8" = 1'-0"

Note: All Chamfers shall be 3/4" unless otherwise noted



ELEVATION PIER NO. 2, NO. 3 OR NO. 4
Scale: 3/8" = 1'-0"

TOP OF PEDESTAL ELEVATIONS AND DIMENSIONS						
PIER NO. 2 NB						
Girder No.	①	②	③	④	⑤	⑥
Elevation	375.82	376.00	376.00	375.82	375.62	375.62
Dimension "H"	12"	12"	12"	12"	9 1/2"	9 1/2"
PIER NO. 3 NB						
Girder No.	①	②	③	④	⑤	⑥
Elevation	376.04	376.23	376.23	376.04	375.82	375.82
Dimension "H"	12"	12"	12"	12"	9 1/4"	9 1/4"
PIER NO. 4 NB						
Girder No.	①	②	③	④	⑤	⑥
Elevation	376.16	376.34	376.34	376.16	375.93	375.93
Dimension "H"	12"	12"	12"	12"	9 1/4"	9 1/4"



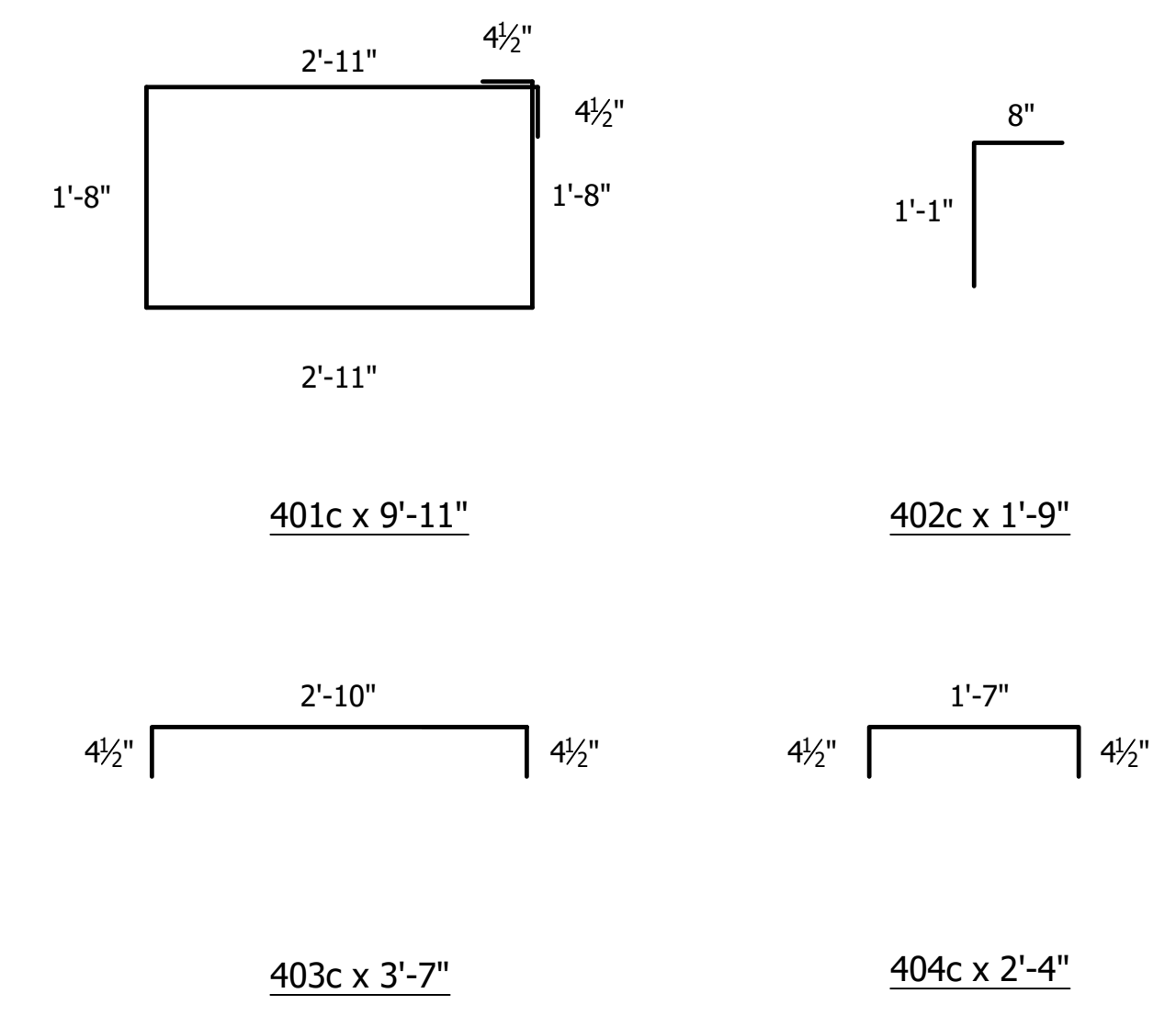
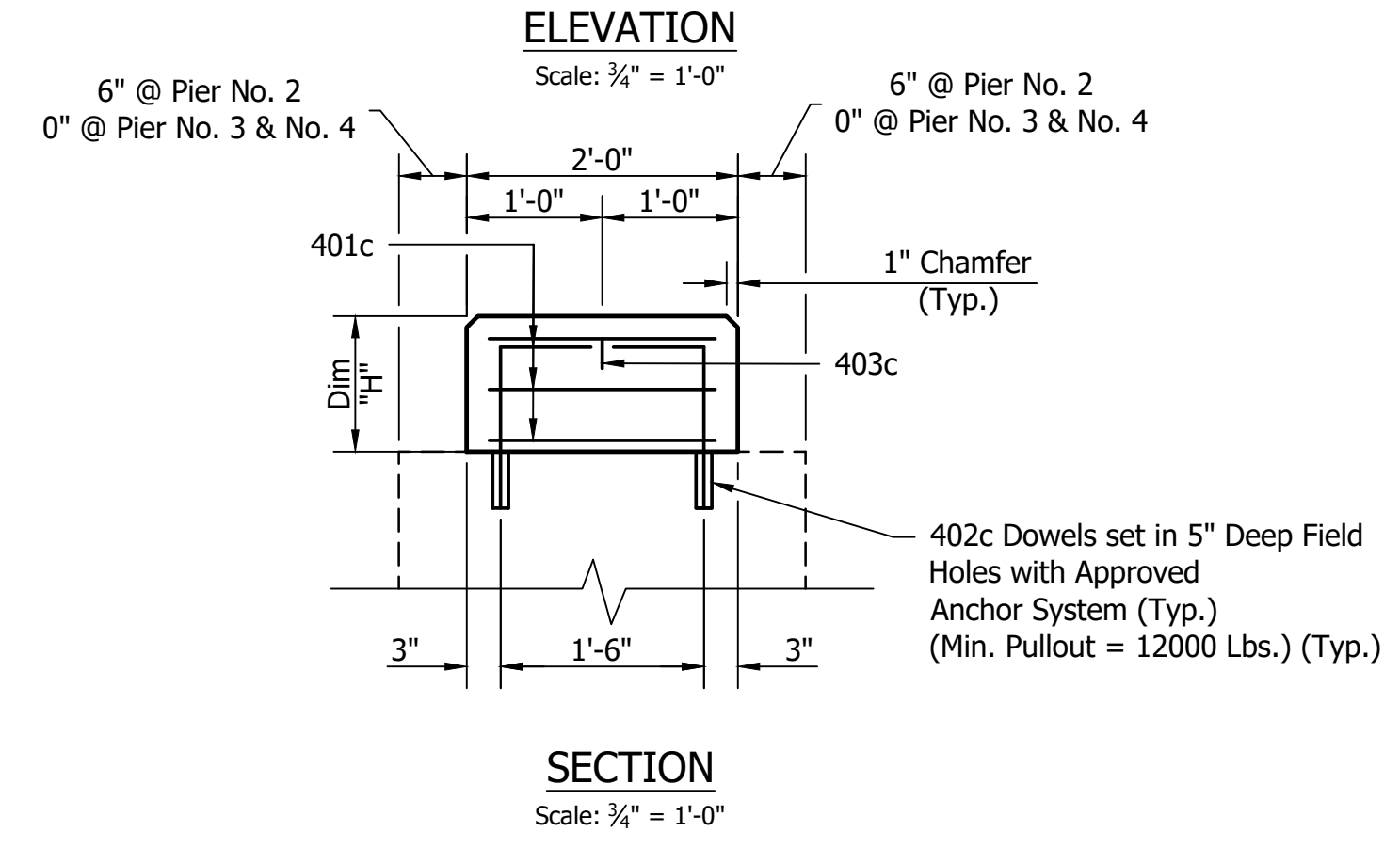
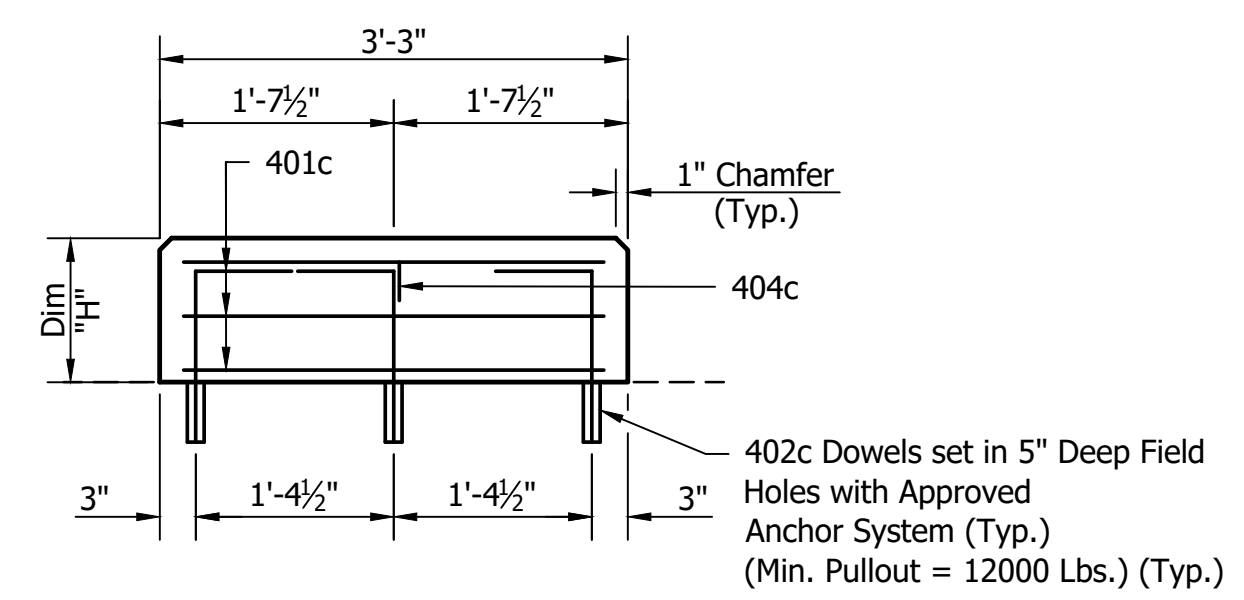
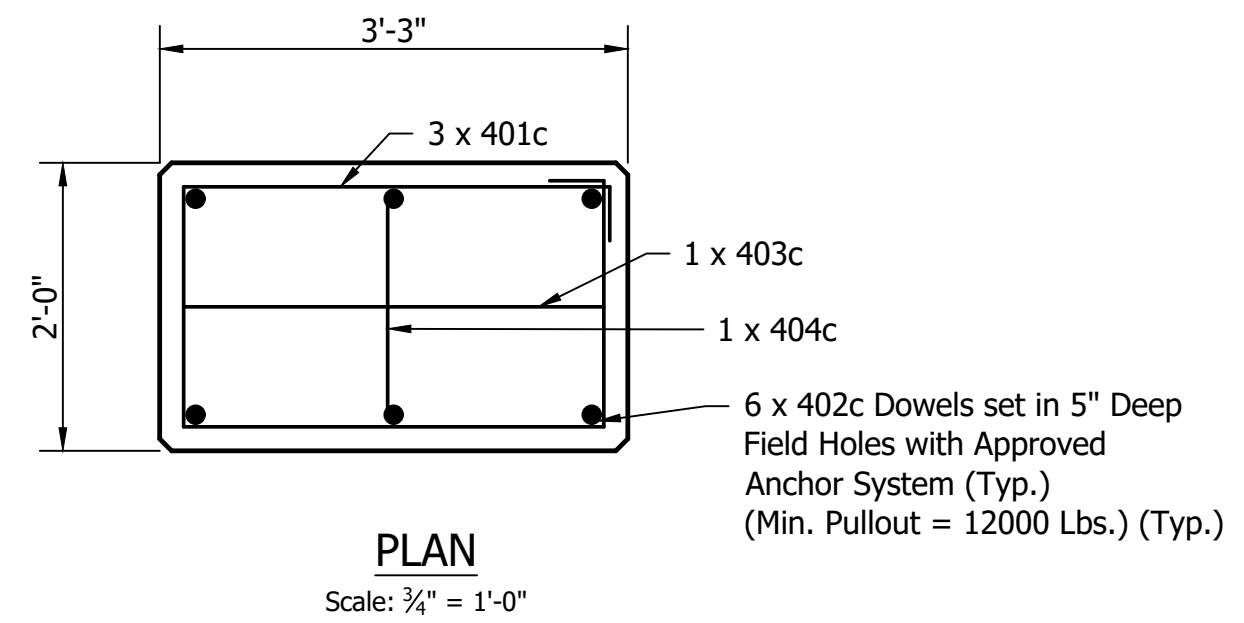
RECOMMENDED FOR APPROVAL: *[Signature]* 10/31/2016
DESIGN ENGINEER DATE

DESIGNED: EAS DRAWN: GSB
CHECKED: NDB CHECKED: NDB

INDIANA DEPARTMENT OF TRANSPORTATION

PEDESTAL DETAILS NORTHBOUND STRUCTURE

HORIZONTAL SCALE	BRIDGE FILE
AS NOTED	041-82-4998C
VERTICAL SCALE	DESIGNATION
AS NOTED	0200636
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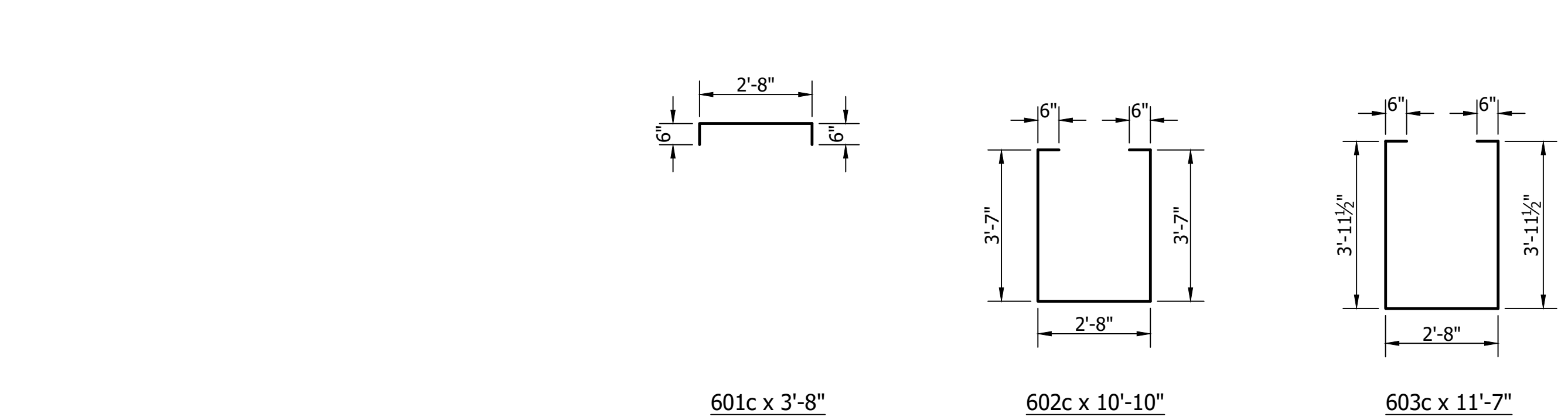
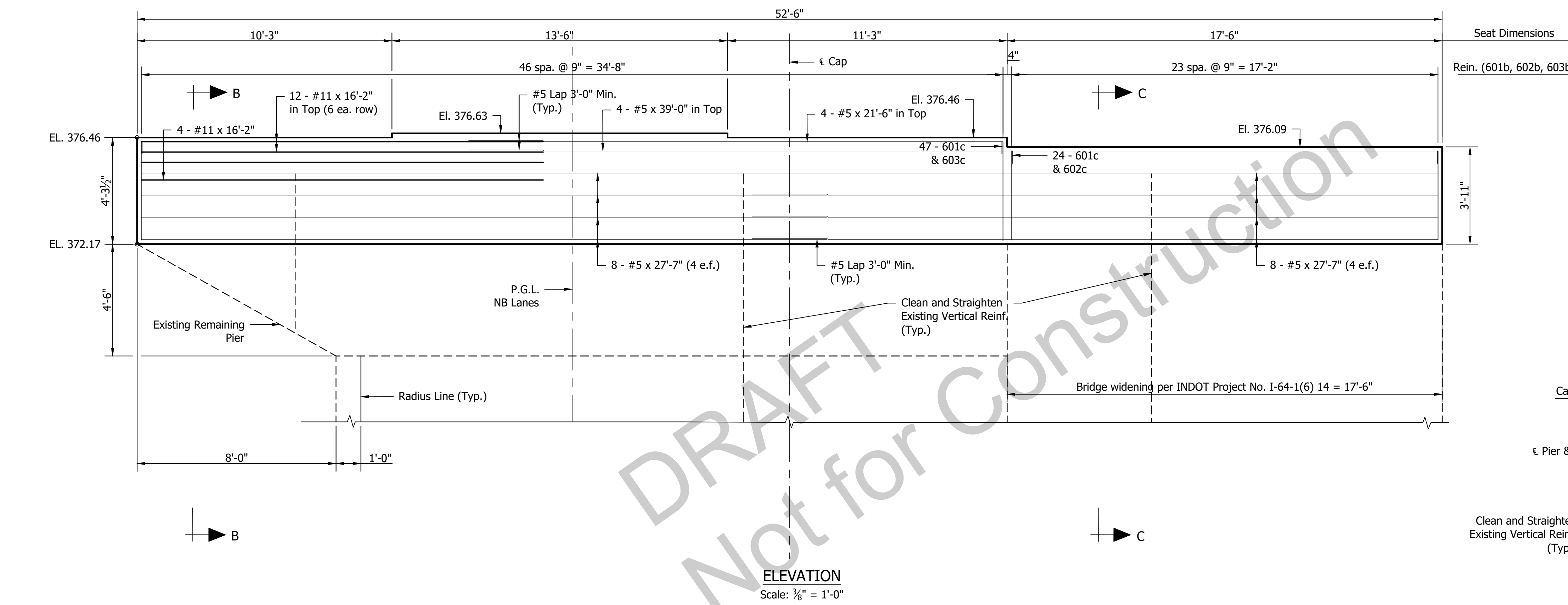
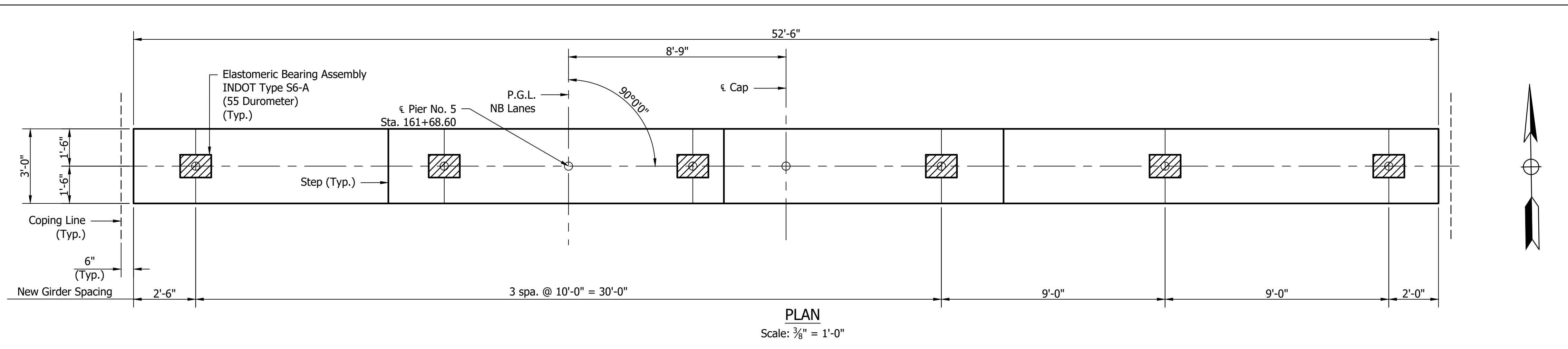
Note: All Chamfers shall be 3/4" unless otherwise noted

BILL OF MATERIALS PEDESTALS PIER NO. 2 (PIERS NO. 3 AND NO. 4 SAME, NORTHBOUND STRUCTURE)			
REINFORCING BARS			
Mark or Size	No. of Bars	Length (Ft.)	Weight (Lbs)
401c	18	9'- 11"	
402c	36	1'- 9"	
403c	6	3'- 7"	
404c	6	2'- 4"	
Total Steel (Plain)			184
CONCRETE			
CLASS A, SUBSTRUCTURE			1.4 Cys.
MISCELLANEOUS			
Elastomeric Bearing Assembly			6 Each
Field Drilled Holes in Concrete			36 Each

DRAFT
Not for Construction

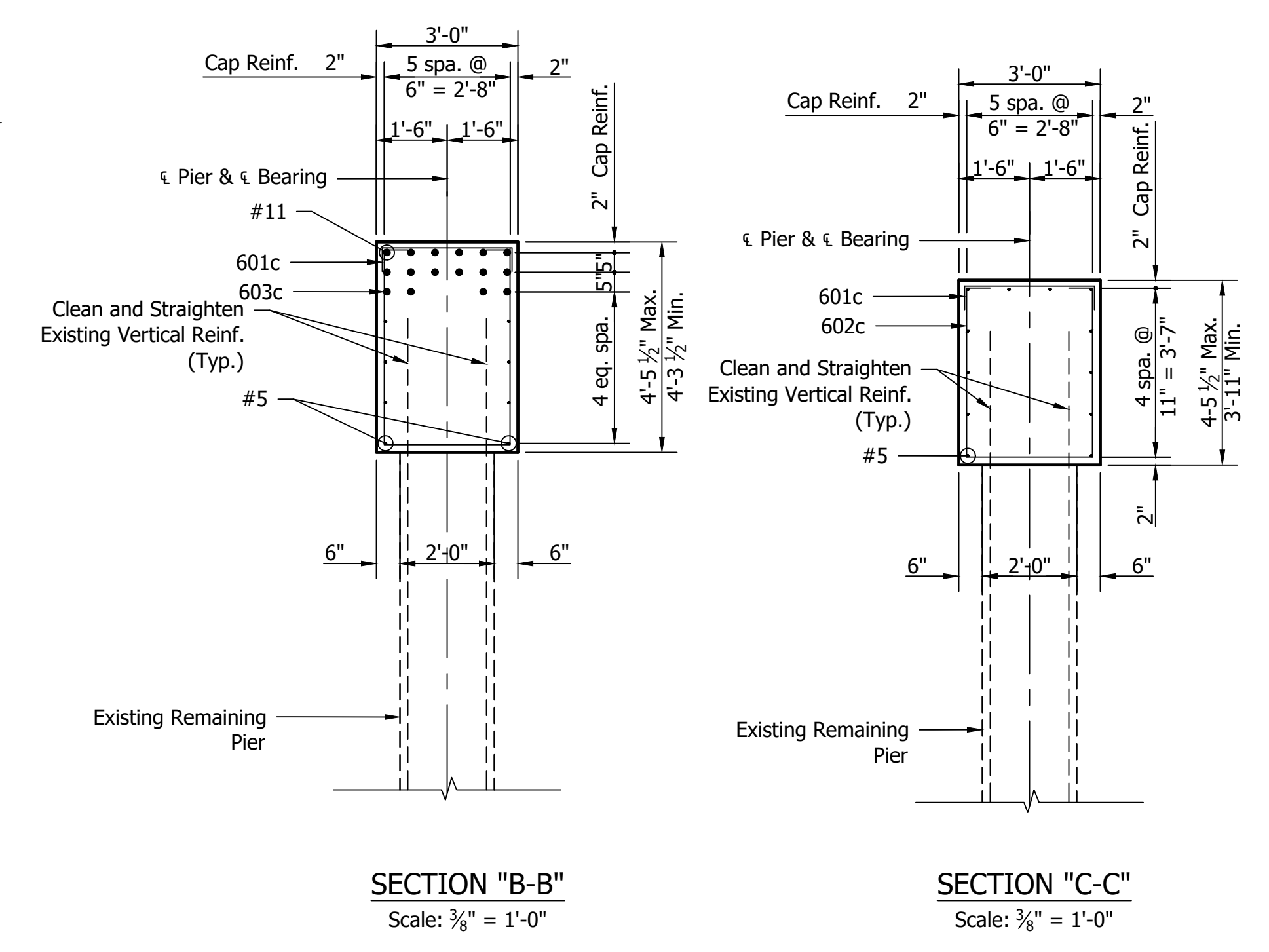
Note:
See Previous Sheet for Dimension "H" values

	RECOMMENDED FOR APPROVAL	 DESIGN ENGINEER	10/31/2016 DATE	INDIANA DEPARTMENT OF TRANSPORTATION	HORIZONTAL SCALE AS NOTED	BRIDGE FILE 041-82-4998C
	DESIGNED: EAS	DRAWN: GSB		PEDESTAL DETAILS NORTHBOUND STRUCTURE	VERTICAL SCALE AS NOTED	DESIGNATION 0200636
	CHECKED: NDB	CHECKED: NDB			SURVEY BOOK	SHEET 16 of 31
					CONTRACT B-33539	PROJECT 0200636

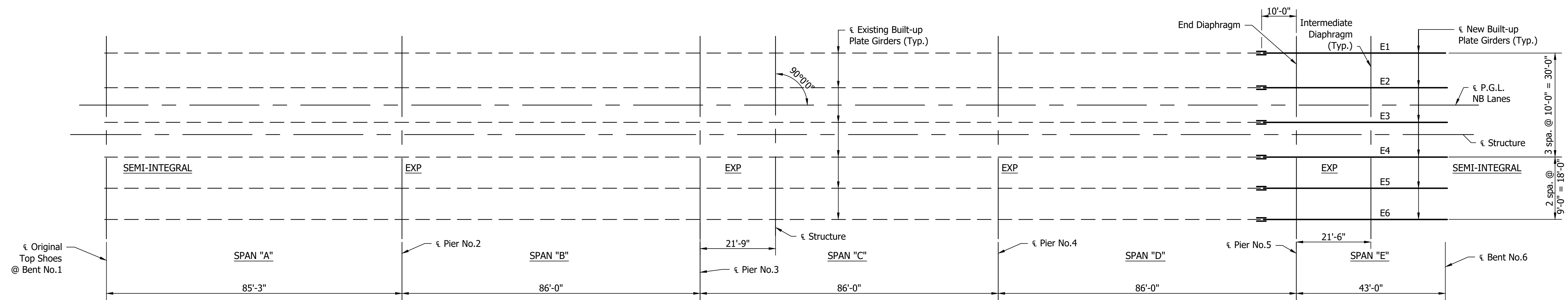
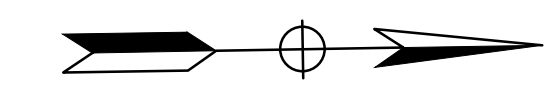


BILL OF MATERIALS PIER NO. 5 NORTHBOUND STRUCTURE			
REINFORCING BARS			
Mark or Size	No. of Bars	Length (Ft.)	Weight (Lbs)
#11	16	16'- 2"	
Total #11 (Plain)			1,374
610b	71	3'- 8"	
611b	24	10'- 10"	
612b	47	11'- 7"	
Total #6 (Plain)			1,600
#5	4	39'- 0"	
#5	16	27'- 7"	
#5	4	21'- 6"	
Total #5 (Plain)			713
Total Steel (Plain)			3,687
CONCRETE			
Class "A" in Substructure			24.7 Cys.

Note:
See Special Provisions for Elastomeric Bearing Assembly



	RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE	INDIANA DEPARTMENT OF TRANSPORTATION PIER NO. 5 DETAILS NORTHBOUND STRUCTURE	HORIZONTAL SCALE	BRIDGE FILE
	DESIGNED: EAS	DRAWN: GSB	10/31/2016		AS NOTED	041-82-4998C
	CHECKED: NDB	CHECKED: NDB			VERTICAL SCALE	DESIGNATION
					AS NOTED	0200636
					SURVEY BOOK	SHEET
						18 of 31
					CONTRACT	PROJECT
					B-33539	0200636



**FRAMING PLAN
NB STRUCTURE**
Scale: 1/16" = 1'-0"

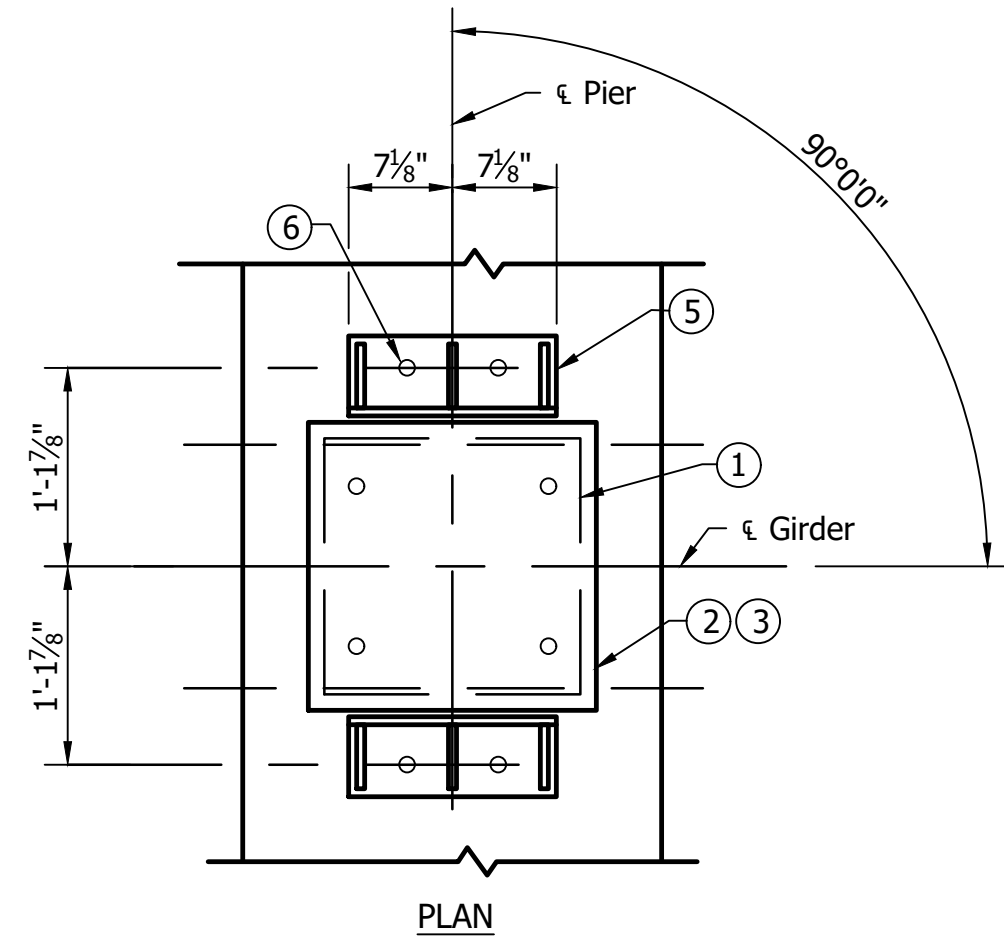
STRUCTURAL STEEL FABRICATION NOTES

All Structural Steel shall be A.S.T.M. A36, Grade 36 unless otherwise noted.

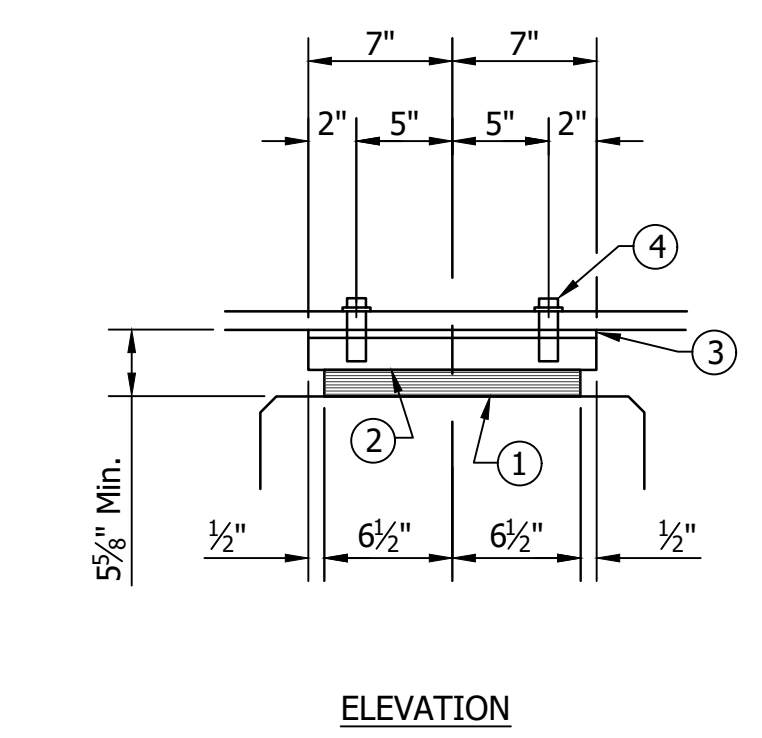
All bolts shall be 7/8" Ø A325 High Strength and all holes shall be 1 1/16" Ø unless otherwise noted.

Estimated weight of Grade 36 Structural Steel is 59,029 pounds. The weight of high strength bolts is not included in the estimated weight of Structural Steel. The cost of these bolts shall be included in the cost of Structural Steel.

The dimensions for these detail plans are based on construction plans and/or shop drawings of the original structure. It is the Contractor's responsibility to verify controlling dimensions in the field prior to fabrication.

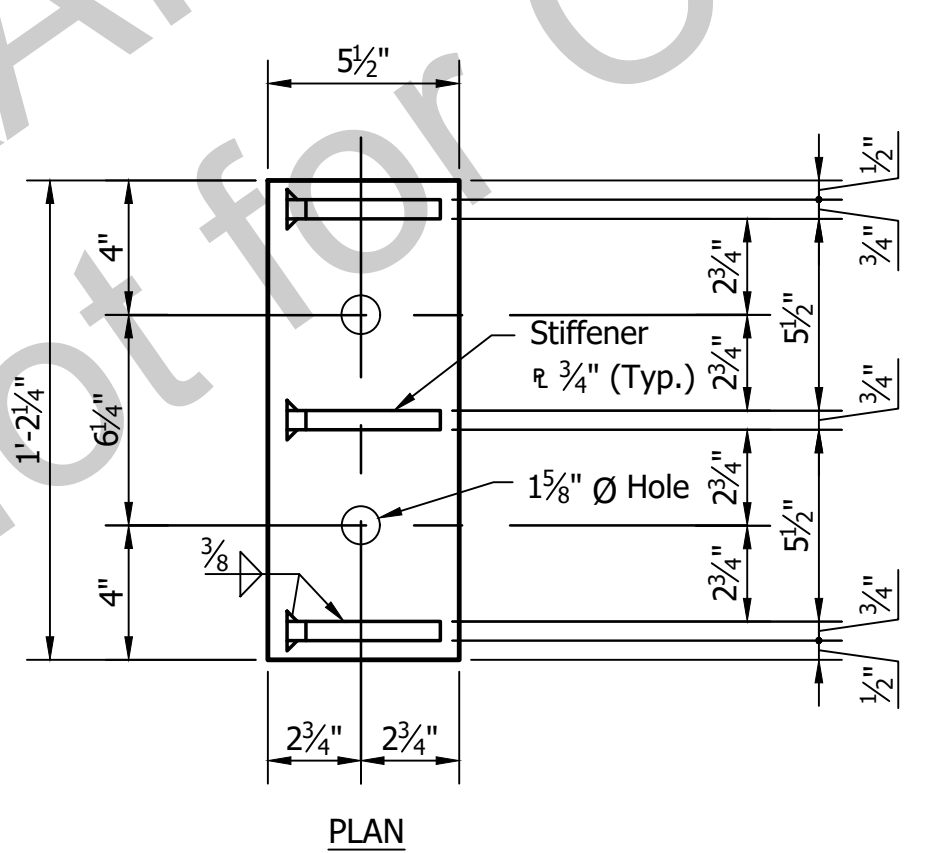
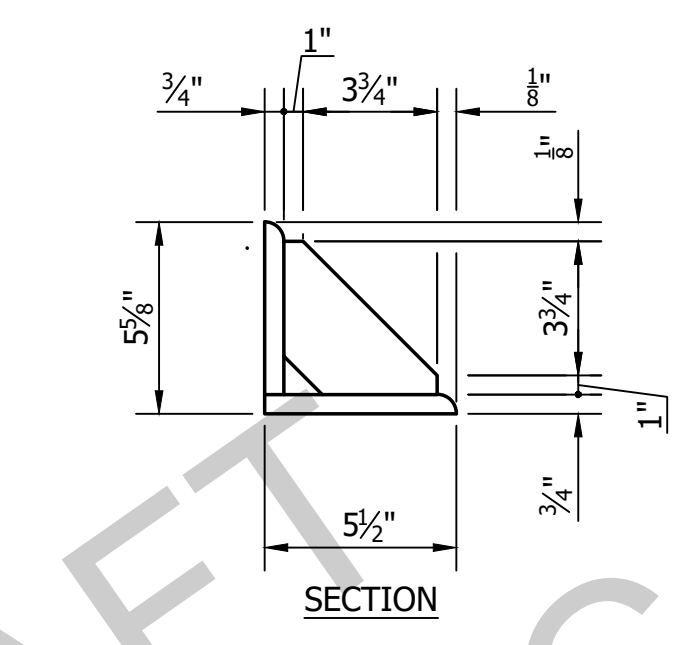


- PIERS NO. 2 THRU 5 NOTES**
- 1 Elastomeric Bearing Assembly INDOT Type S6-A (55 Durometer) (Bonded to Top Plate)
 - 2 1 1/2" x 1'-2" x 1'-10" Top Plate Drill and Tap 1" Deep for 3/4" Ø Bolts
 - 3 1'-2" x 1'-0" Shim Plates with 7/8" Ø Holes (Thickness = 1/2" Min.)
 - 4 3/4" Ø Hex Bolt (A325) with Lock Washer (Typ.)
 - 5 Retainer Angle (See Detail this Sheet) (Typ.)
 - 6 1 1/2" x 1'-6" Threaded Anchor Rod (A307) with Hex Nut and Washer. (See Detail this Sheet) Set in 1'-3" Deep Field Drilled Hole with an Approved Anchor System. (Min. Pullout = 106,000 Lbs.) (Typ.) Weight of Threaded Anchor Rods is not included in the Estimated Weight of Structural Steel.

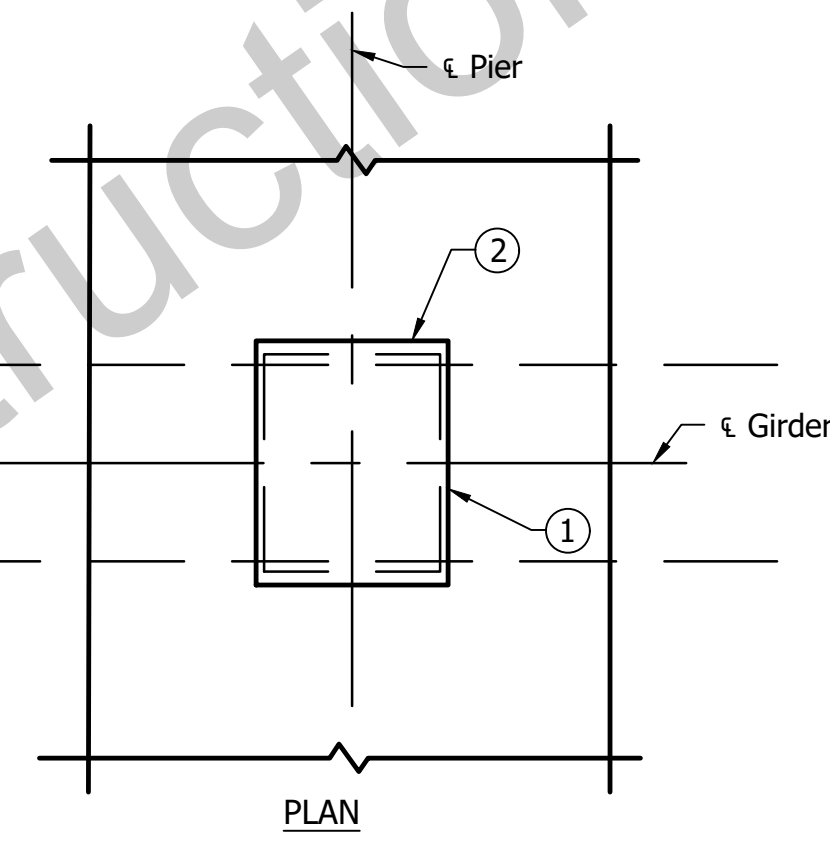


**PIERS NO.2 THRU NO 5.
EXPANSION BEARING ASSEMBLY**
Not to Scale

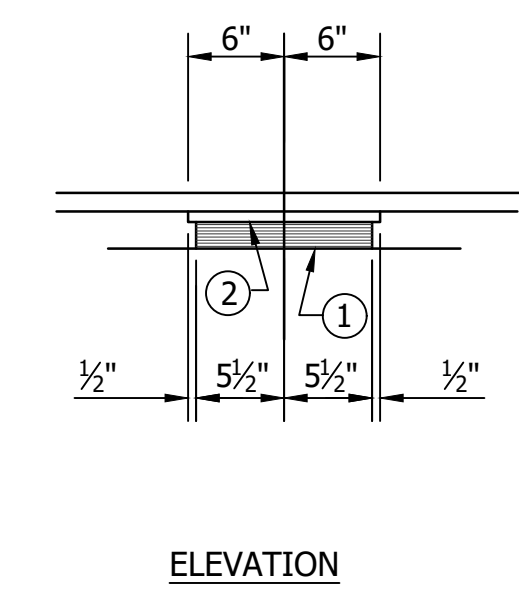
NOTE
All Steel for expansion bearing assembly shall be A36 unless noted.



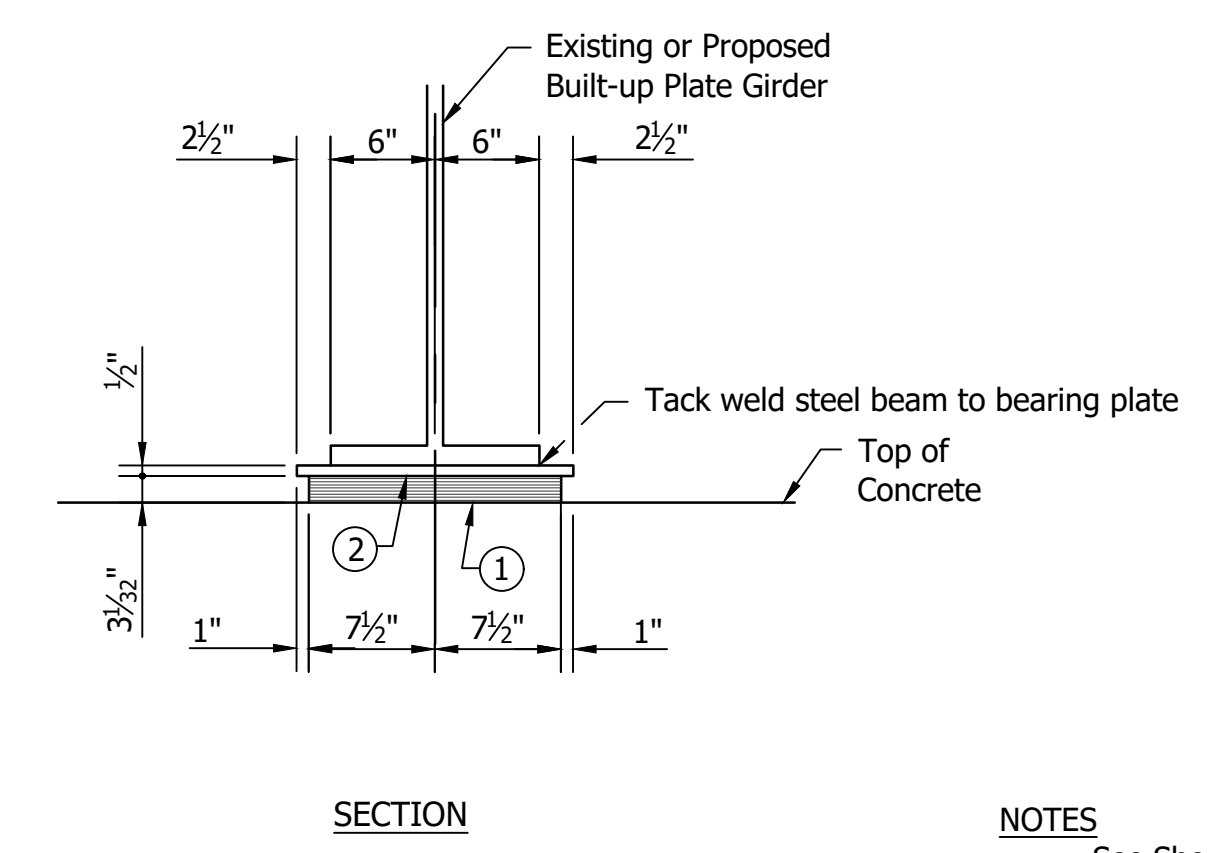
RETAINER ANGLE DETAILS
Not to Scale



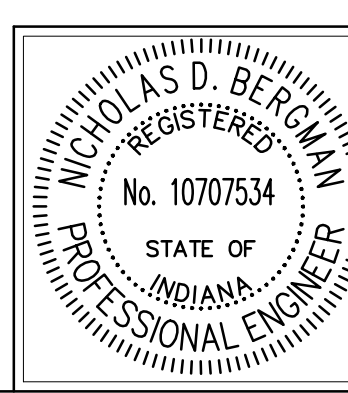
- BENTS NO. 1 & No. 6 NOTES**
- 1 Elastomeric Bearing Assembly INDOT Type S6-A (55 Durometer) (Bonded to Top Plate)
 - 2 1'-0" x 1'-5" Top Plate



**BENTS NO.1 AND NO.6
BEARING ASSEMBLY**
Not to Scale



NOTES
See Sheet 20 for Girder Elevations and Shear Stud Details.
See Sheet 21 for Splice Details.
See Sheet 22 for Cross Frame Diaphragm Details.
See Sheet 23 for No Load Camber and Reaming Diagrams.
See Sheet 26 for Section "A-A".

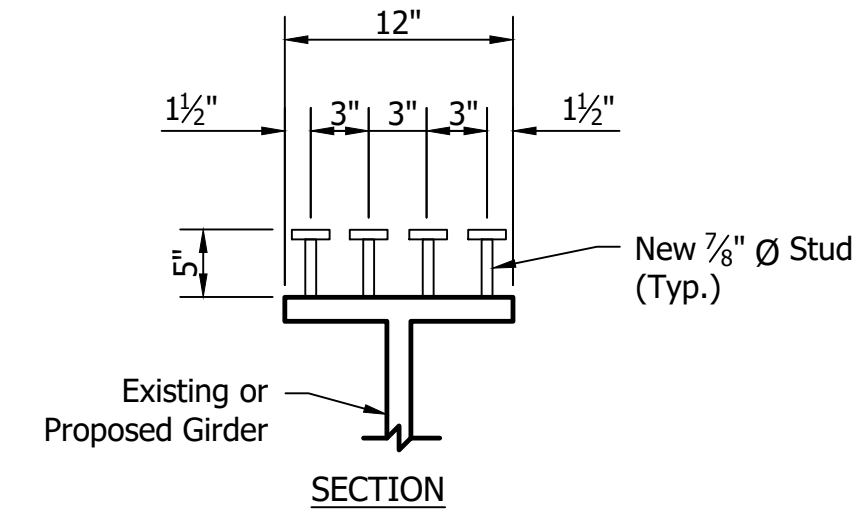
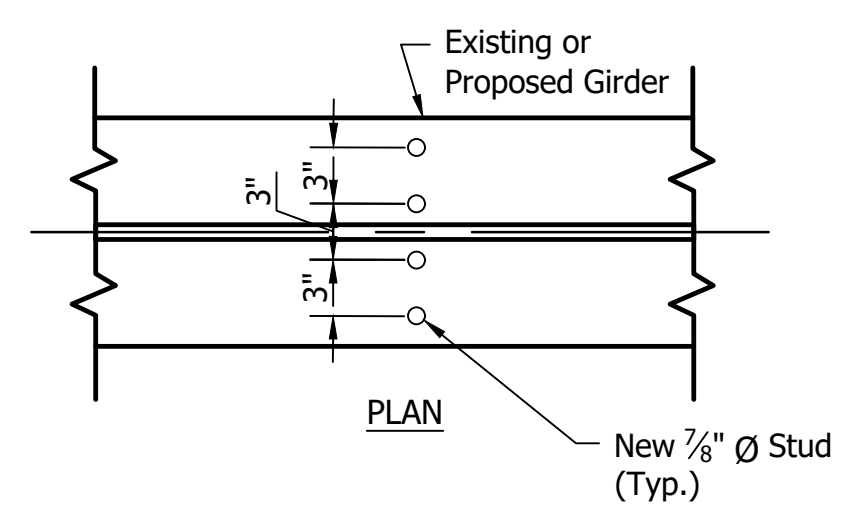
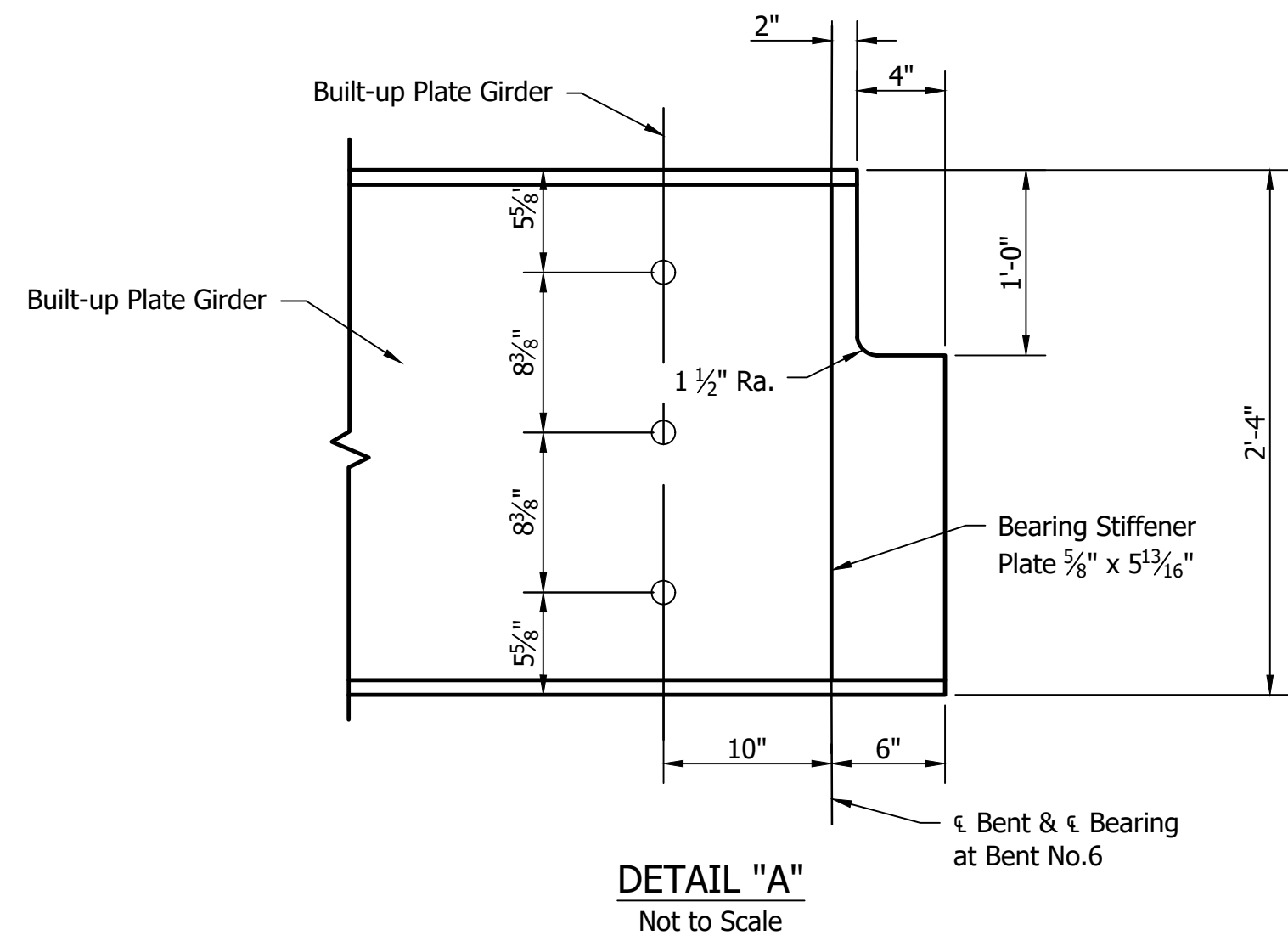
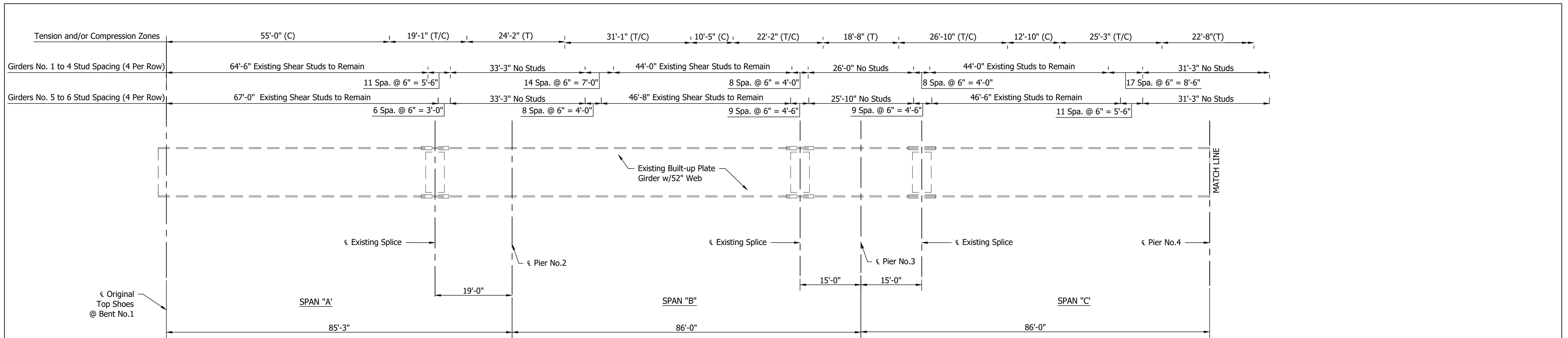


RECOMMENDED FOR APPROVAL	<i>NDB</i>	DESIGN ENGINEER	DATE
			10/31/2016
DESIGNED:	EAS	DRAWN:	GSR
CHECKED:	NDB	CHECKED:	NDB

INDIANA
DEPARTMENT OF TRANSPORTATION

**STRUCTURAL STEEL DETAILS
NORTHBOUND STRUCTURE**

HORIZONTAL SCALE	BRIDGE FILE
AS NOTED	041-82-4998C
VERTICAL SCALE	DESIGNATION
AS NOTED	0200636
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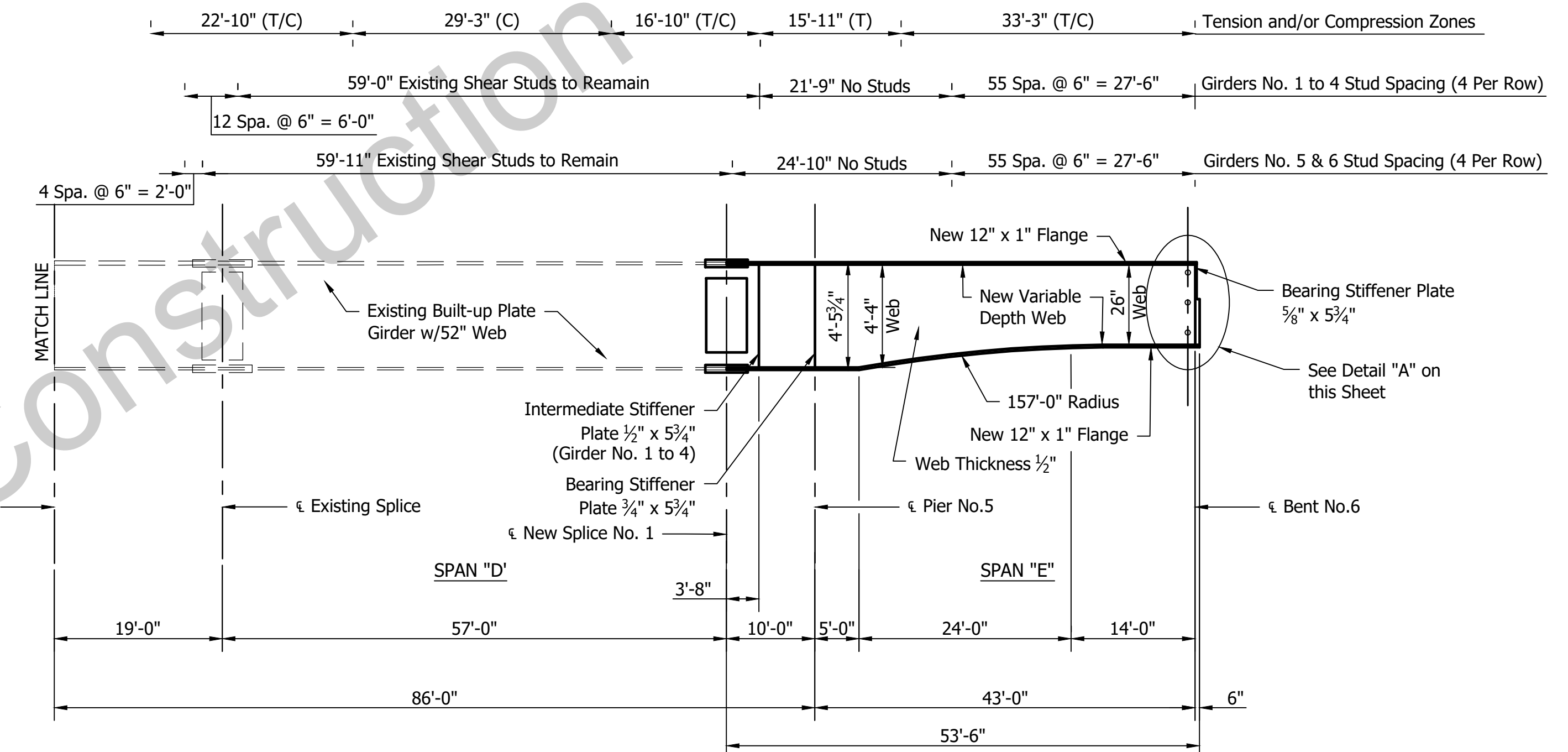


SHEAR STUD DETAILS
Not to Scale

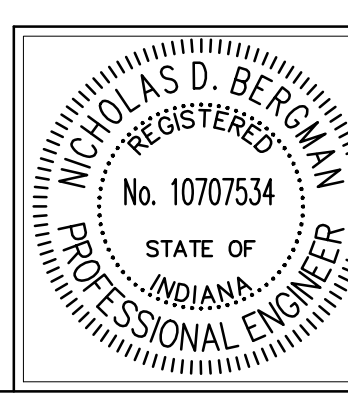
Notes:
 Top of Beams shall be cleaned prior to installation of Shear Studs per Section 619.
 The cost and installation of 7/8" Ø Shear Studs on Existing Beams shall be paid for as "Shear Stud Connector, Each."
 Shear Stud Connectors on Existing Beams:
 Total = 220 Each
 The cost and installation of 7/8" Ø Shear Studs on New Beams shall be included in the cost of Structural Steel.
 Shear Stud Connectors on New Beams & Existing Beams:
 Total = 2912 Each

DRAFT
Not for Construction

ELEVATION
EXISTING GIRDERS AND NEW GIRDER E1 THRU E6
 Not to Scale



NOTES
 See Sheet 19 for Framing Plan and Structural Steel Fabrication Notes.
 See Sheet 21 for Splice Detail.

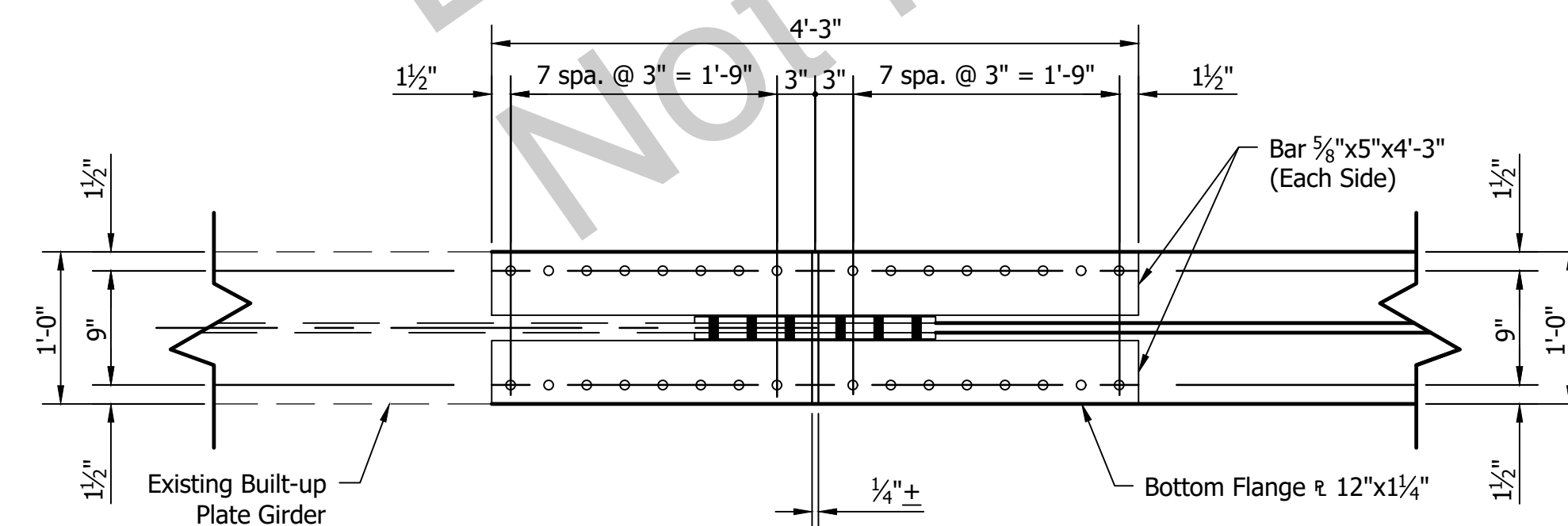
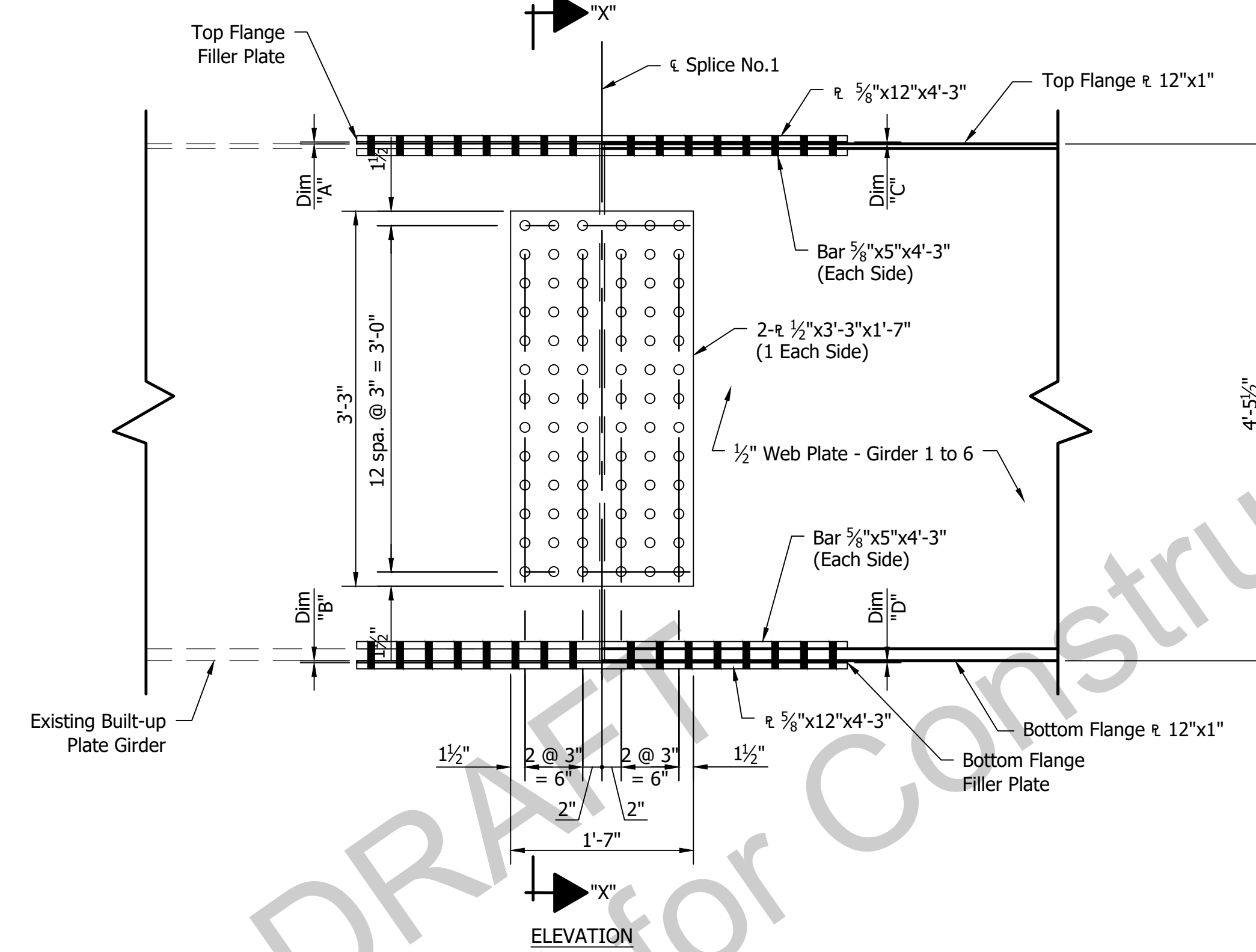
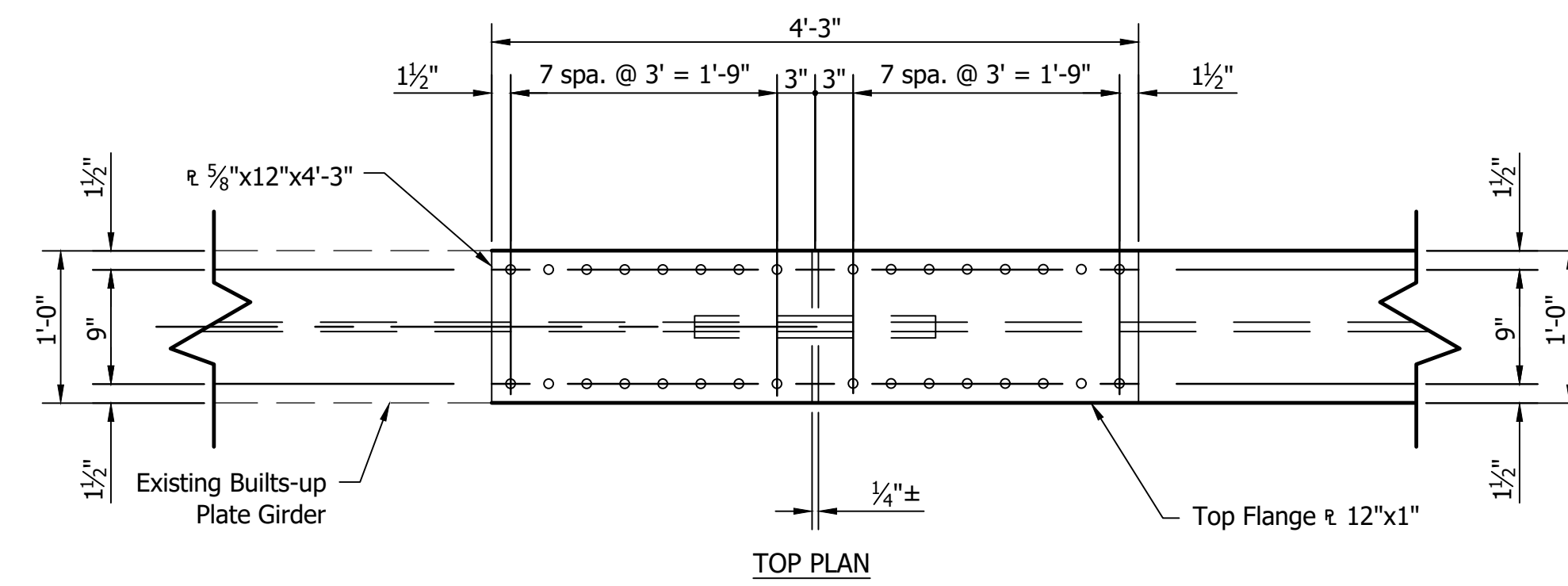


RECOMMENDED FOR APPROVAL	<i>[Signature]</i>	10/31/2016
DESIGNED:	EAS	DATE
DRAWN:	GSR	
CHECKED:	NDB	

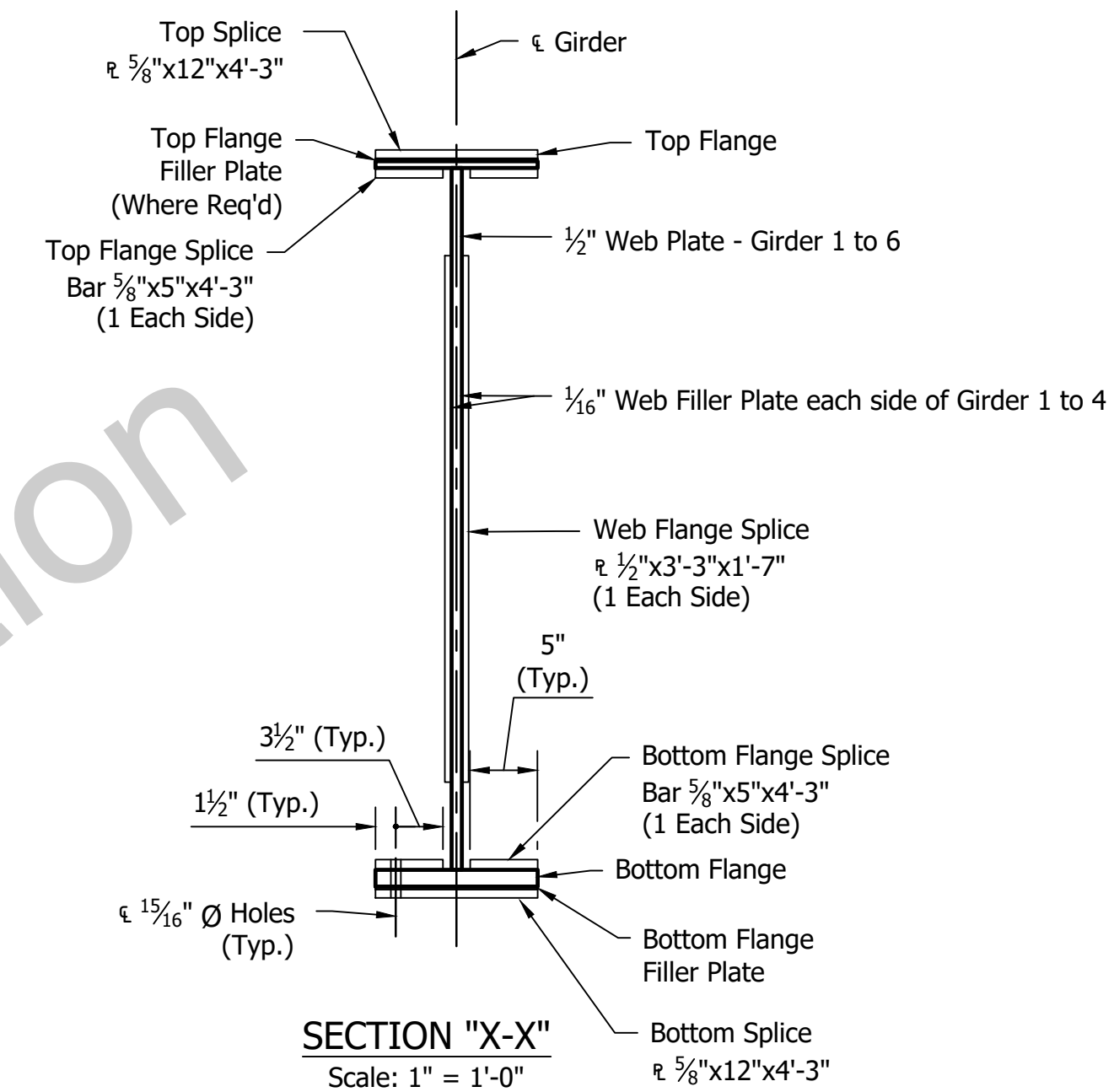
INDIANA
DEPARTMENT OF TRANSPORTATION

STRUCTURAL STEEL DETAILS
NORTHBOUND STRUCTURE

HORIZONTAL SCALE	BRIDGE FILE
AS NOTED	041-82-4998C
VERTICAL SCALE	DESIGNATION
AS NOTED	0200636
SURVEY BOOK	SHEET
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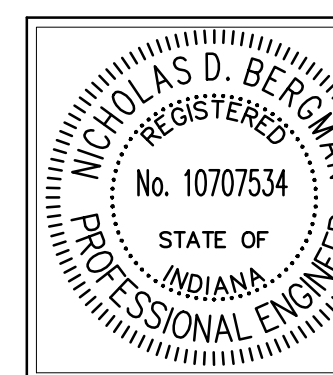
SPLICE NO. 1 DETAILS
Scale: 1" = 1'-0"



TOP OF SPLICE ELEVATIONS	
Girder	Splice No. 1
E1	381.488
E2	381.657
E3	381.657
E4	381.485
E5	381.129
E6	381.132

Notes:
Splice Elevations shown in Table are with falsework removed and allow for steel dead load only.
Top of Splice Plates shall be adjusted to Elevations shown in Table before field splices are bolted.

FILLER PLATE DIMENSIONS						
Girder No.	1	2	3	4	5	6
Dim "A"	1/2"	1/2"	1/2"	1/2"	N/A	N/A
Dim "B"	N/A	N/A	N/A	N/A	N/A	N/A
Dim "C"	N/A	N/A	N/A	N/A	3/8"	3/8"
Dim "D"	1/4"	1/4"	1/4"	1/4"	3/8"	3/8"



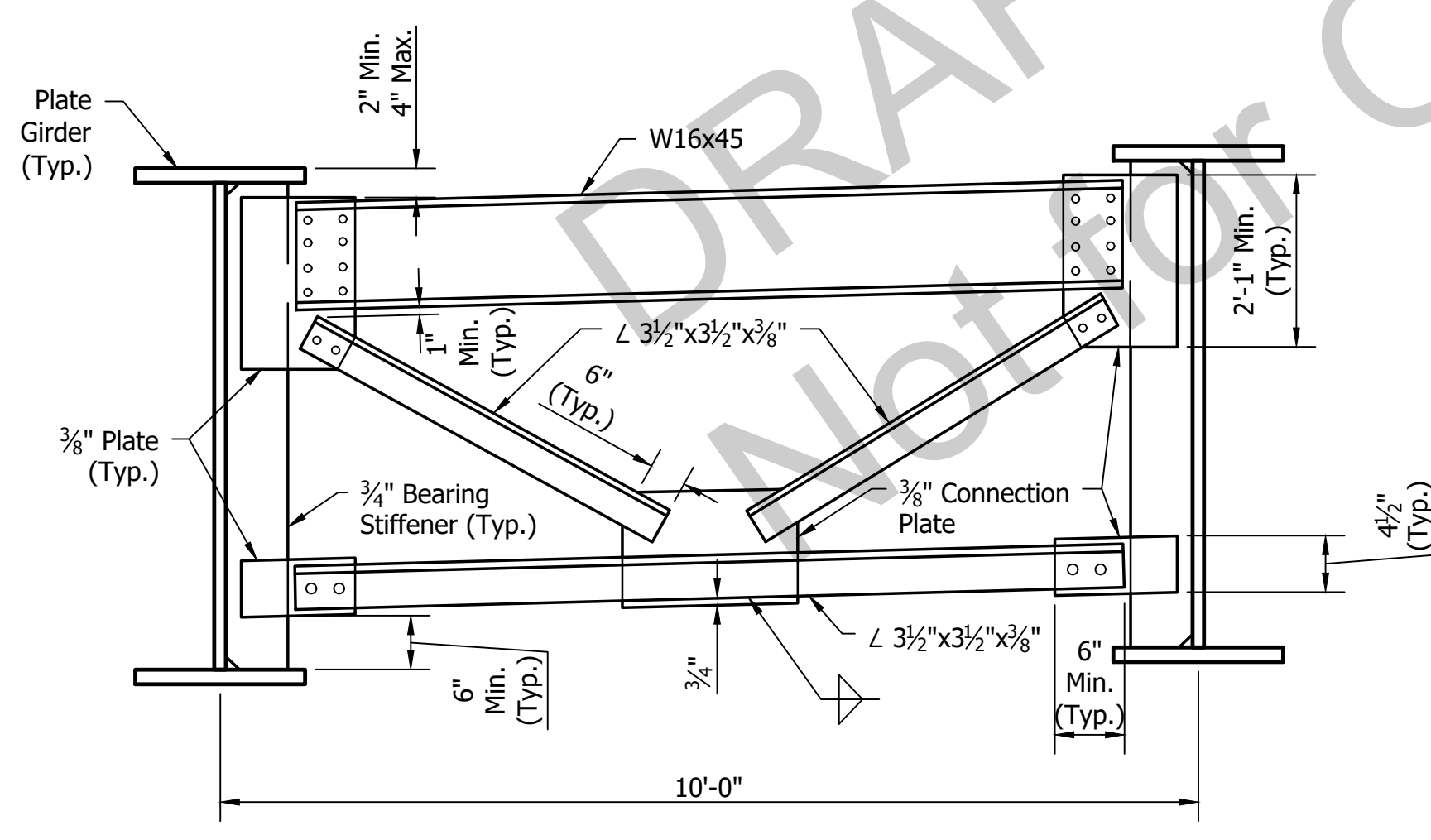
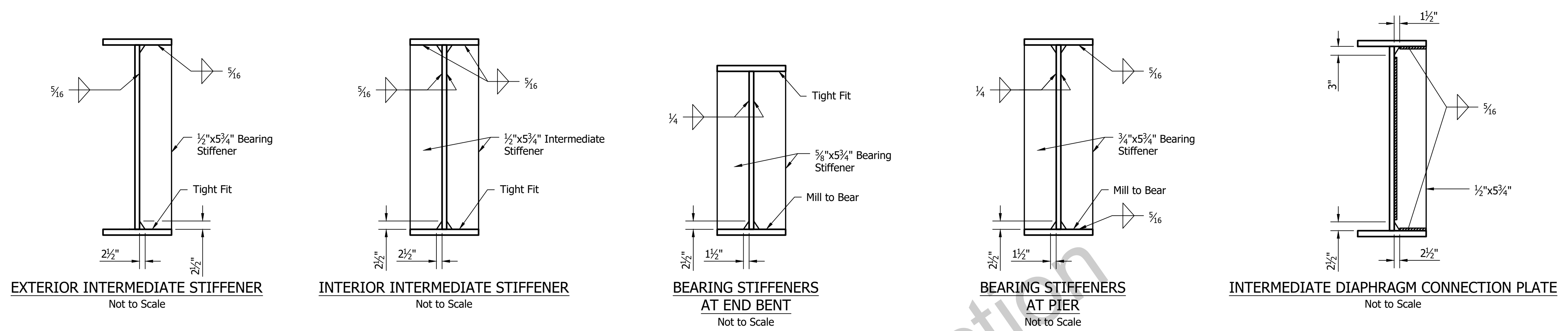
RECOMMENDED FOR APPROVAL: *[Signature]* 10/31/2016
DESIGN ENGINEER DATE

DESIGNED: EAS DRAWN: GSB
CHECKED: NDB CHECKED: NDB

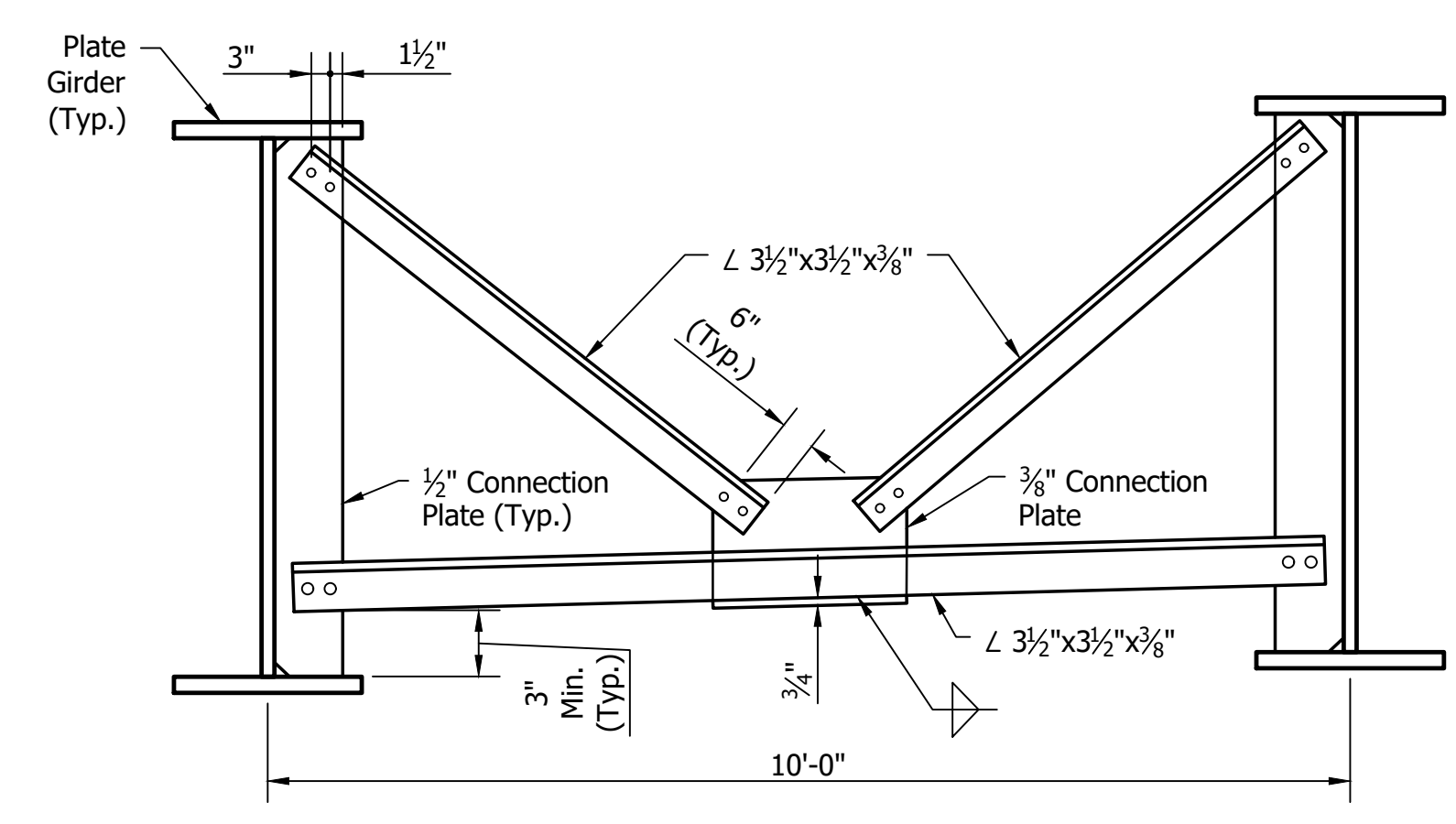
INDIANA
DEPARTMENT OF TRANSPORTATION

STRUCTURAL STEEL DETAILS
NORTHBOUND STRUCTURE

HORIZONTAL SCALE	BRIDGE FILE
AS NOTED	041-82-4998C
VERTICAL SCALE	DESIGNATION
AS NOTED	0200636
SURVEY BOOK	SHEET
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CONTRACT	PROJECT
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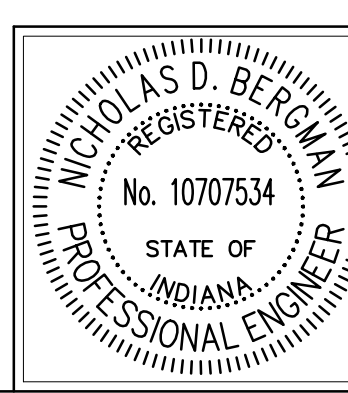


END DIAPHRAGM AT PIER NO.5
Not to Scale



INTERMEDIATE DIAPHRAGM
Not to Scale

NOTE
See Sheet 19 for Framing Plan and Structural Steel Fabrication Notes

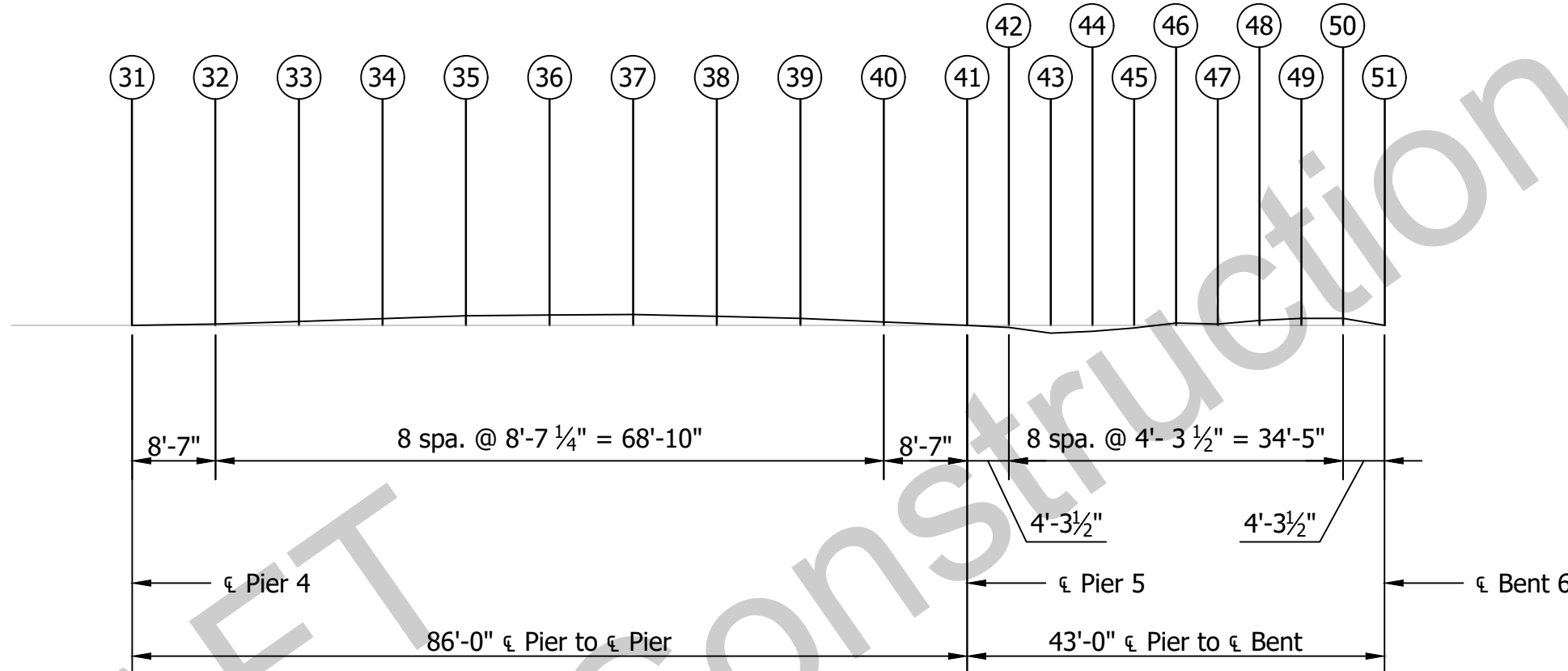


RECOMMENDED FOR APPROVAL	<i>[Signature]</i>	DESIGN ENGINEER	10/31/2016	DATE
DESIGNED:	EAS	DRAWN:	GSR	
CHECKED:	NDB	CHECKED:	NDB	

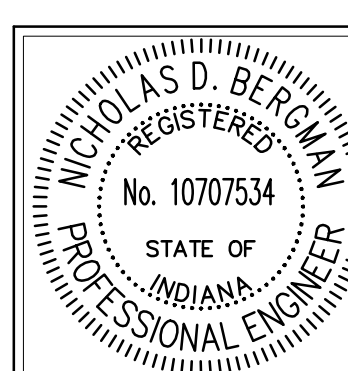
INDIANA
DEPARTMENT OF TRANSPORTATION

**STRUCTURAL STEEL DETAILS
NORTHBOUND STRUCTURE**

HORIZONTAL SCALE	BRIDGE FILE
AS NOTED	041-82-4998C
VERTICAL SCALE	DESIGNATION
AS NOTED	0200636
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Camber (inches)																					
Girder No.	Location No.																				
	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51
	257.25'	265.85'	274.45'	283.05'	291.65'	300.25'	308.85'	317.45'	326.05'	334.65'	343.25'	347.55'	351.85'	356.15'	360.45'	364.75'	369.05'	373.35'	377.65'	381.95'	386.25'
1 to 4	0.000	0.014	0.041	0.071	0.101	0.108	0.112	0.094	0.074	0.035	0.000	0.047	0.042	0.036	0.031	0.026	0.021	0.016	0.010	0.005	0.000
5 & 6	0.000	0.014	0.028	0.043	0.056	0.067	0.061	0.055	0.040	0.019	0.000	0.047	0.042	0.036	0.031	0.026	0.021	0.016	0.010	0.005	0.000



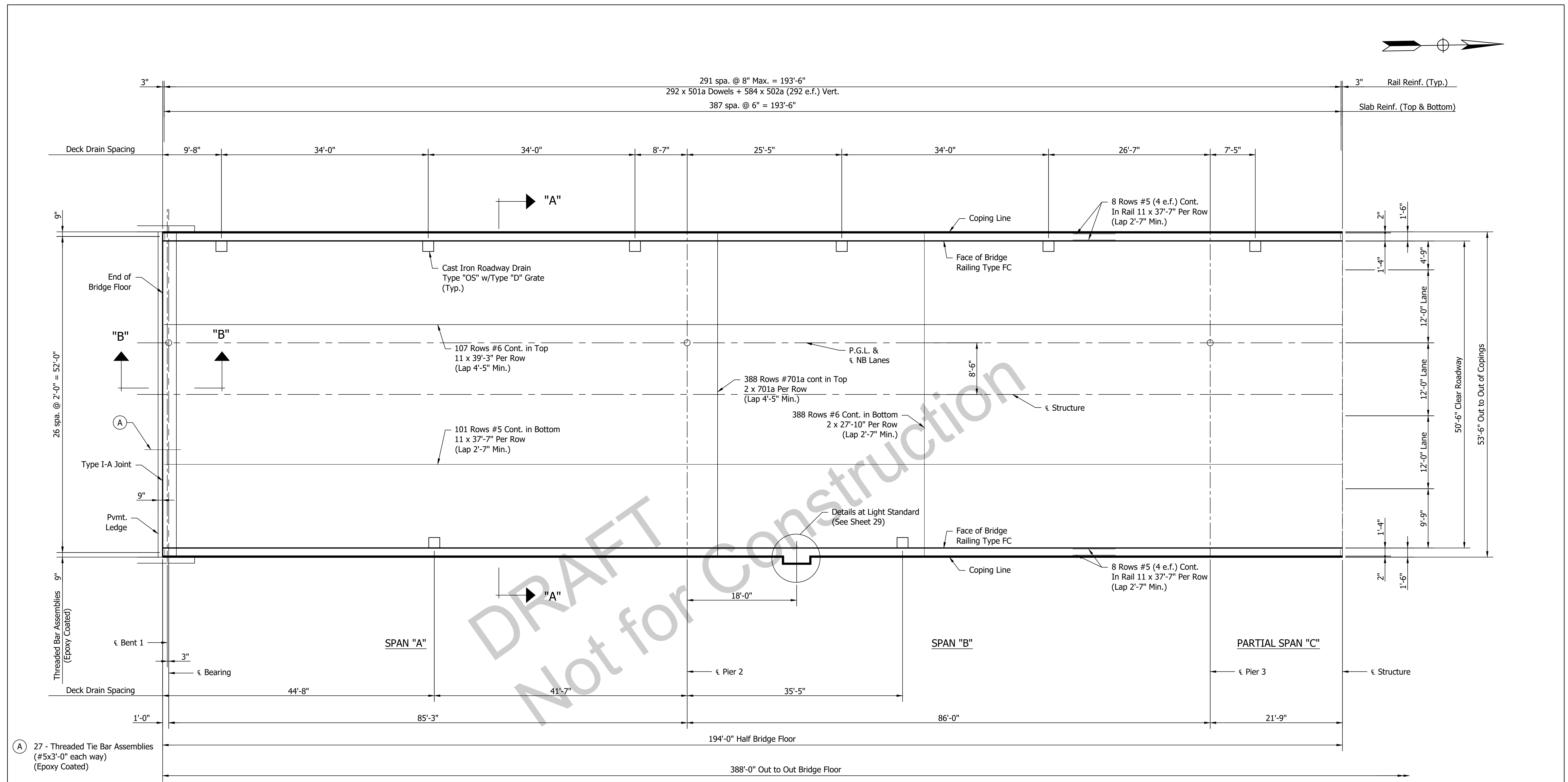
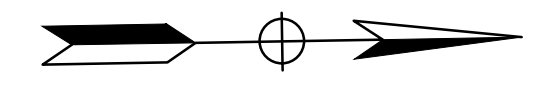
RECOMMENDED FOR APPROVAL *[Signature]* 10/31/2016
 DESIGN ENGINEER DATE

DESIGNED: EAS DRAWN: GSB
 CHECKED: NDB CHECKED: NDB

INDIANA
 DEPARTMENT OF TRANSPORTATION

STRUCTURAL STEEL DETAILS
 NORTHBOUND STRUCTURE

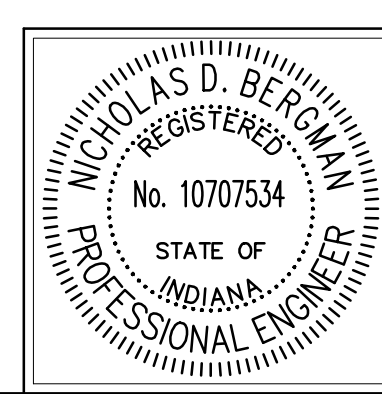
HORIZONTAL SCALE	BRIDGE FILE
AS NOTED	041-82-4998C
VERTICAL SCALE	DESIGNATION
AS NOTED	0200636
SURVEY BOOK	SHEET
	23 of 31
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B-33539	0200636



(A) 27 - Threaded Tie Bar Assemblies (#5x3'-0" each way) (Epoxy Coated)

PLAN
SPAN "A", "B" AND PARTIAL SPAN "C"
Scale: 1/8" = 1'-0"

NOTES
See Sheet 9 for Section "B-B"
See Sheet 25 for Balance of Plan.
See Sheet 26 for Section "A-A" and Additional Notes.
See Sheet 27 for Concrete Dead Load Deflection Diagram and Screed Plan.
See Sheet 28 for Screed Elevations.
See Sheet 29 for Bar Bending Details and Bill of Materials.

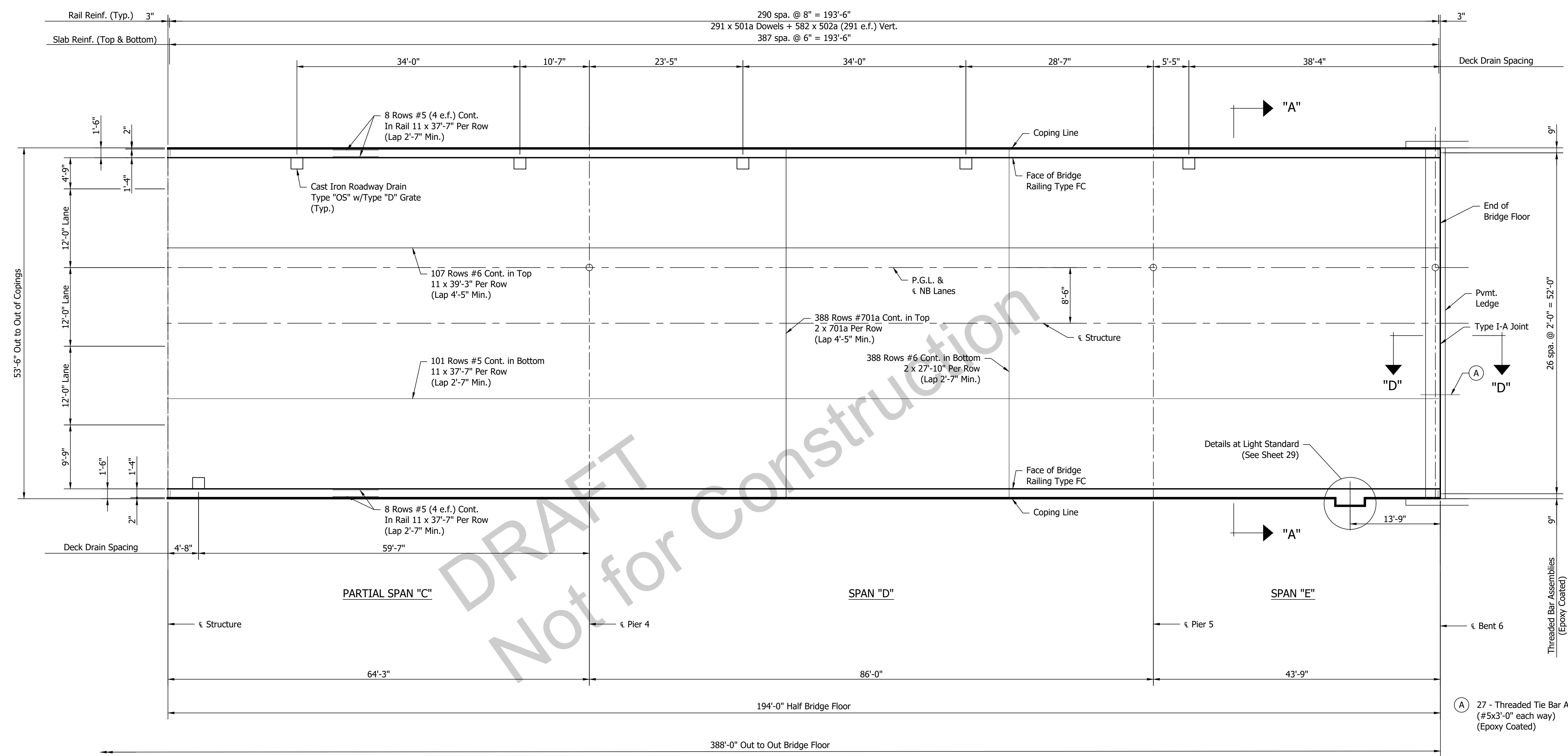
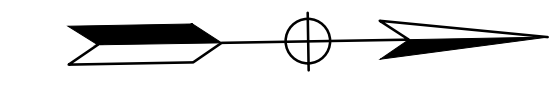


RECOMMENDED FOR APPROVAL	<i>[Signature]</i>	DESIGN ENGINEER	10/31/2016	DATE
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CHECKED: NDB	CHECKED: NDB			

INDIANA
DEPARTMENT OF TRANSPORTATION

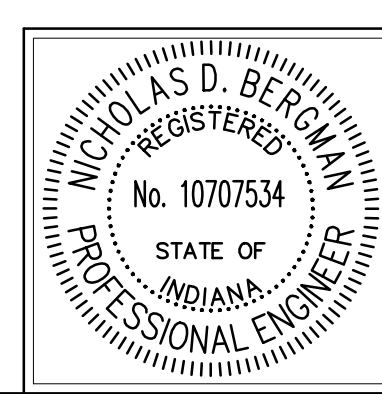
FLOOR DETAILS
NORTHBOUND STRUCTURE

HORIZONTAL SCALE	AS NOTED	BRIDGE FILE	041-82-4998C
VERTICAL SCALE	AS NOTED	DESIGNATION	0200636
SURVEY BOOK		SHEET	24 of 31
CONTRACT	B-33539	PROJECT	0200636



PLAN
PARTIAL SPAN "C", SPAN "D" AND "E"
Scale: 1/8" = 1'-0"

NOTES
See Sheet 13 for Section "D-D"
See Sheet 24 for Balance of Plan.
See Sheet 26 for Section "A-A" and Additional Notes.
See Sheet 27 for Concrete Dead Load Deflection Diagram and Screed Plan.
See Sheet 28 for Screed Elevations.
See Sheet 29 for Bar Bending Details and Bill of Materials.



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FLOOR DETAILS
NORTHBOUND STRUCTURE

HORIZONTAL SCALE	BRIDGE FILE
AS NOTED	041-82-4998C
VERTICAL SCALE	DESIGNATION
AS NOTED	0200636
SURVEY BOOK	SHEET
	25 of 31
CONTRACT	PROJECT
B-33539	0200636

FLOOR NOTES

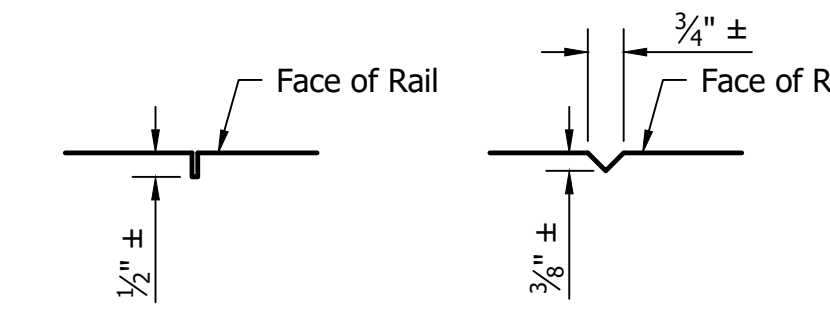
After the beams have been erected, concrete forms shall not be blocked against the end beams in making any pours adjacent to the beam spans.

Suitable restraint shall be provided to prevent the rotation of the outside beams from construction loads such as finishing machines, forms, etc.

The top reinforcing in the slab shall be securely tied down to the slab forms and/or the beams to prevent lifting during concrete paving.

The Contractor shall space the reinforcing bars so to ensure a continuous bar is at the edge of each coping.

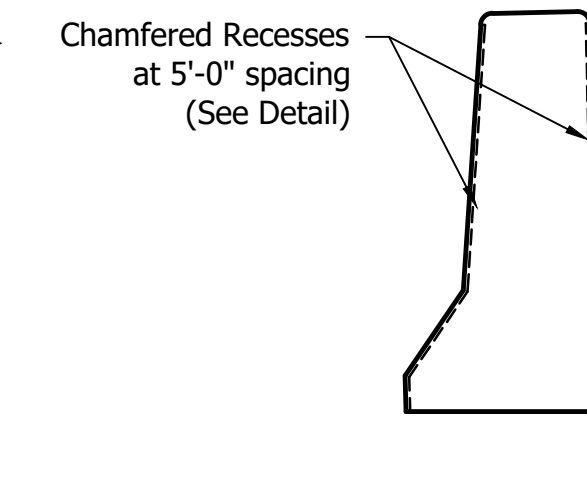
The Contractor shall have the option of using permanent metal deck forms in lieu of removable deck forms.



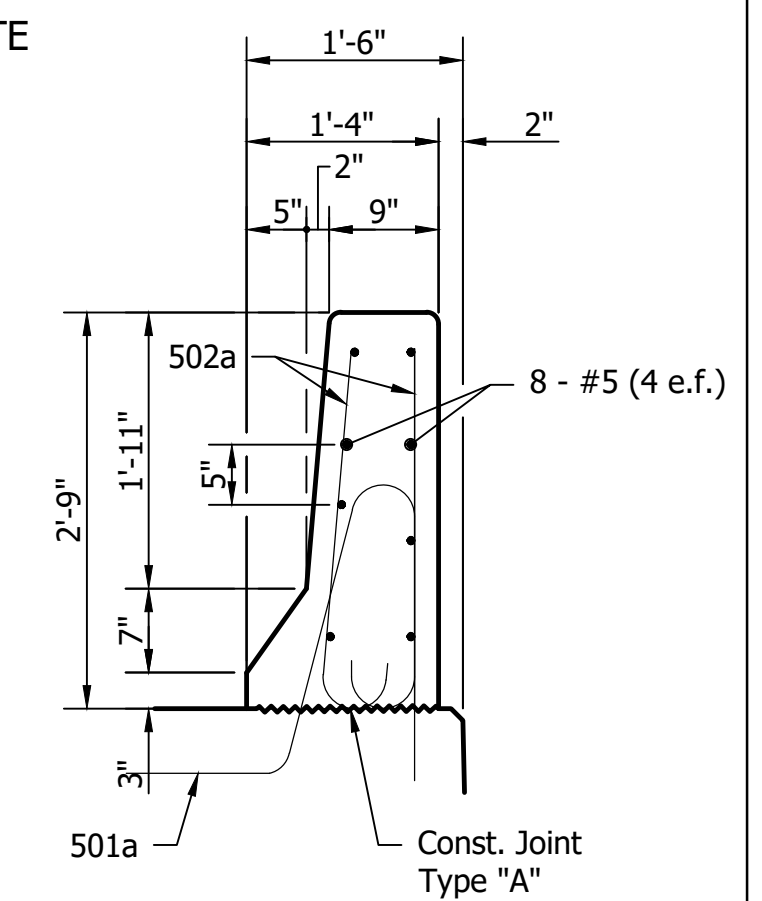
SAW CUT ALTERNATE FORMED ALTERNATE

RECESS DETAILS

Not to Scale



Chamfered Recesses at 5'-0" spacing (See Detail)



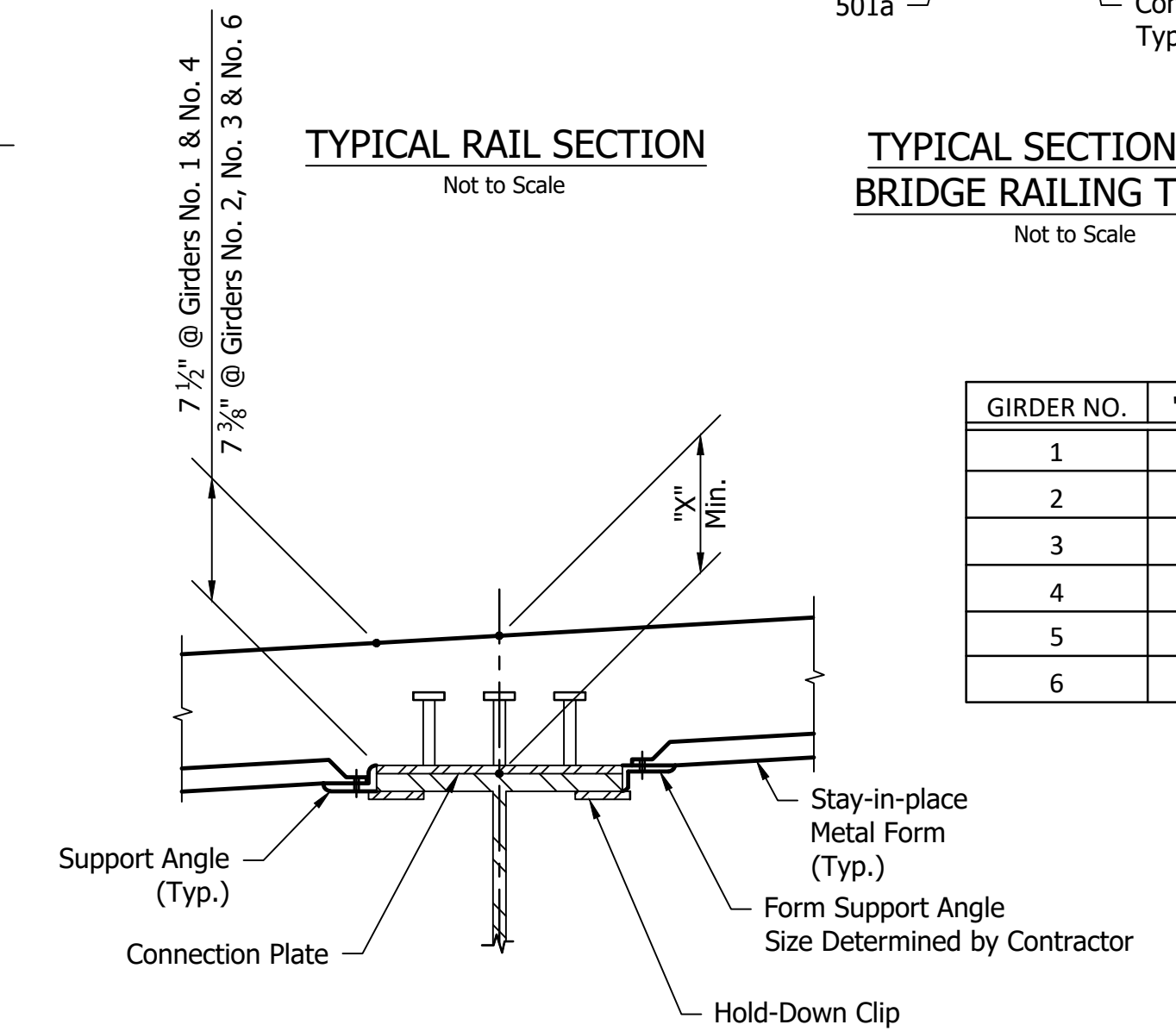
TYPICAL RAIL SECTION

Not to Scale

TYPICAL SECTION THRU BRIDGE RAILING TYPE FC

Not to Scale

GIRDER NO.	"X" INCHES
1	9"
2	8 3/4"
3	8 3/4"
4	8 3/4"
5	9"
6	8 3/4"

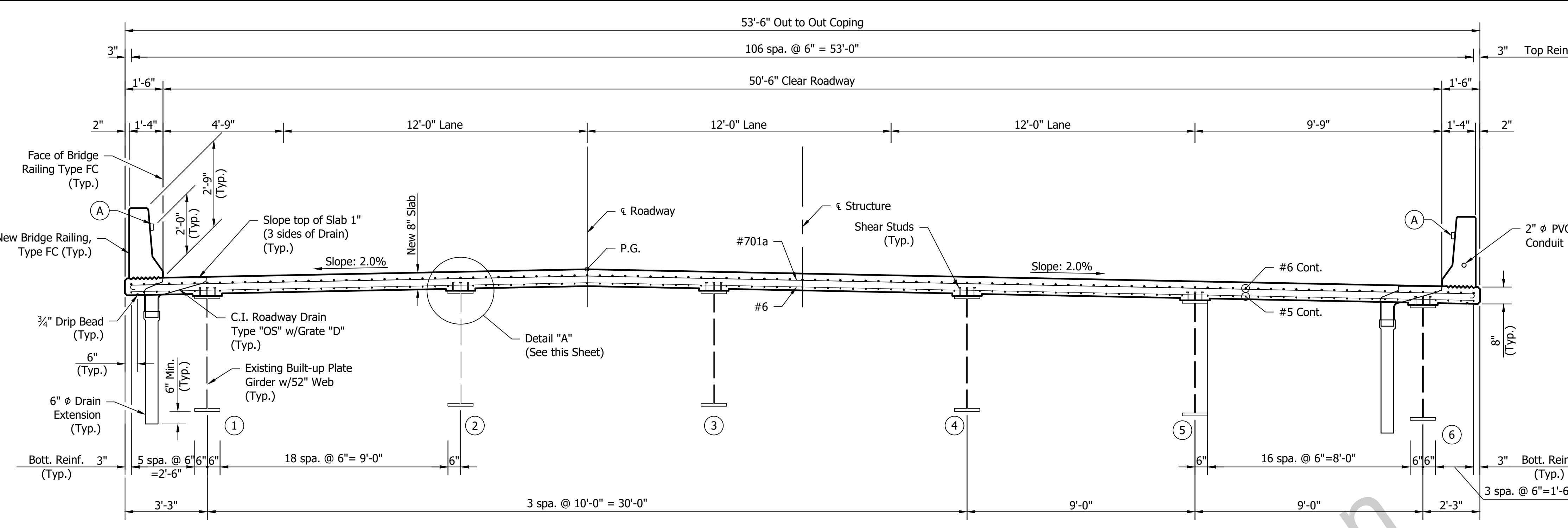


DETAIL "A"

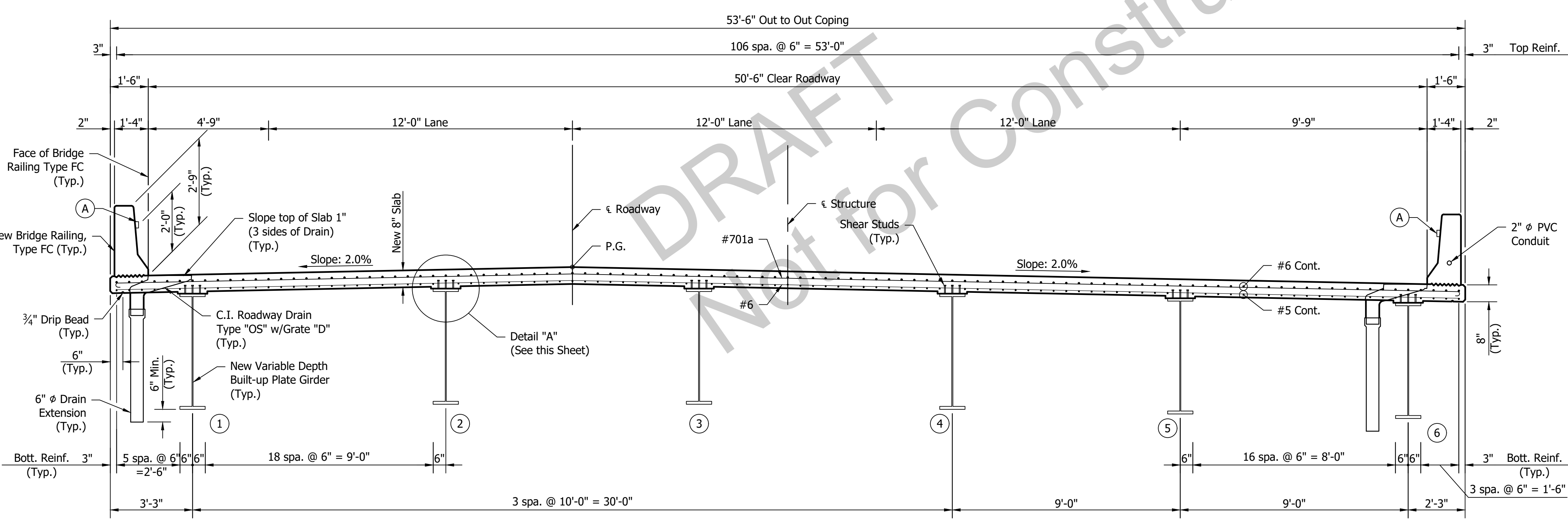
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NOTES

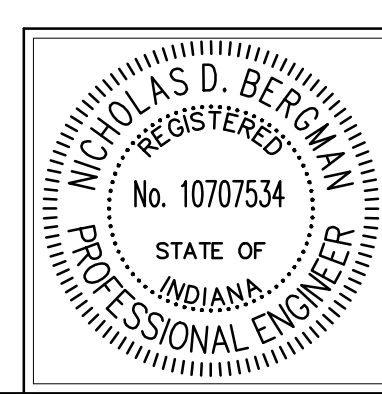
- See Sheet 27 for Concrete Dead Load Deflection Diagram and Screed Plan.
- See Sheet 28 for Screed Elevations.
- See Sheet 29 for Bar Bending Details and Bill of Materials.
- Sides of the unpainted top flanges shall not be exposed.



SECTION "A-A"
SPANS "A" THRU "D"
Scale: 3/8" = 1'-0"



SECTION "A-A"
SPAN "E"
Scale: 3/8" = 1'-0"

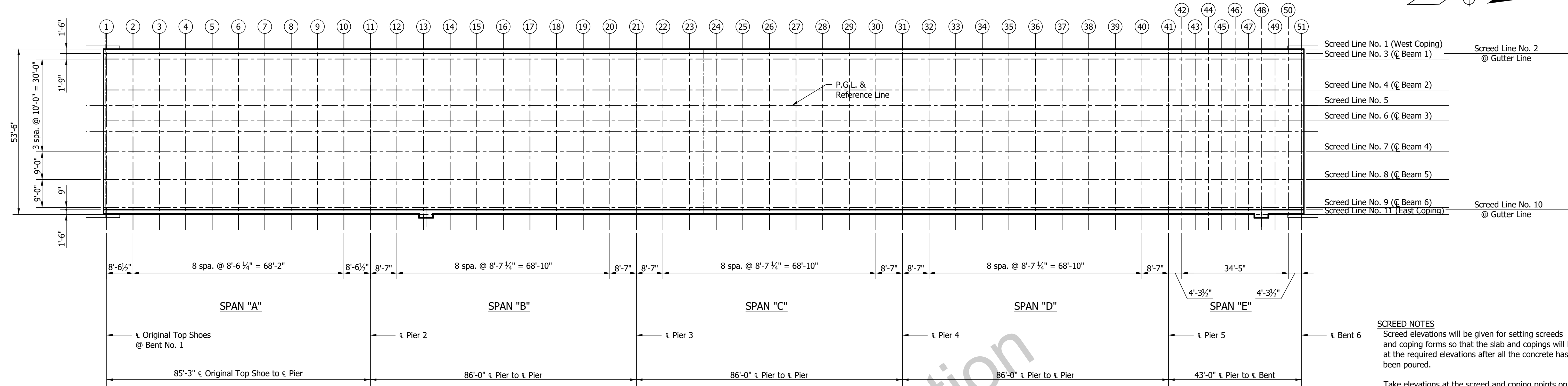
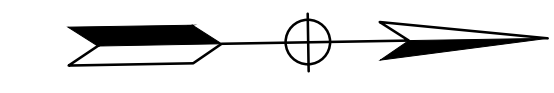


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CHECKED:	NDB	CHECKED:	NDB	

INDIANA
DEPARTMENT OF TRANSPORTATION

FLOOR DETAILS
NORTHBOUND STRUCTURE

HORIZONTAL SCALE	BRIDGE FILE
AS NOTED	041-82-4998C
VERTICAL SCALE	DESIGNATION
AS NOTED	0200636
SURVEY BOOK	SHEET
	26 of 31
CONTRACT	PROJECT
B-33539	0200636

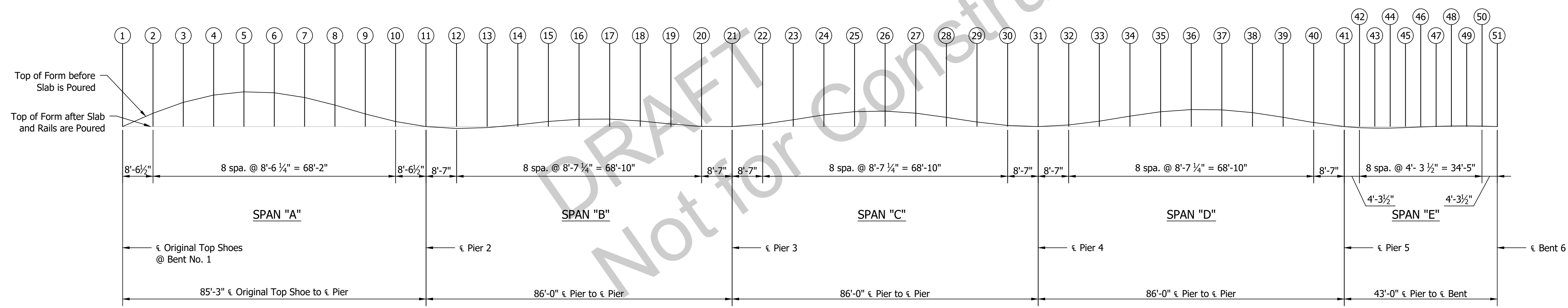


SCREED NOTES
Screed elevations will be given for setting screeds and coping forms so that the slab and copings will be at the required elevations after all the concrete has been poured.

Take elevations at the screed and coping points on top of adjacent beams, subtract these elevations from the given elevations and use resulting dimensions as the height for setting the screed or coping forms above that point. This dimension remains unchanged regardless of how much or what order the concrete is poured.

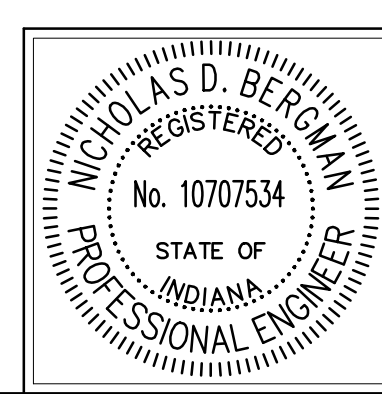
No concrete shall be poured until the above operation is completed.

Do not set screeds or coping forms by leveling.



NOTES:
See Sheet 28 for Screed Elevations.

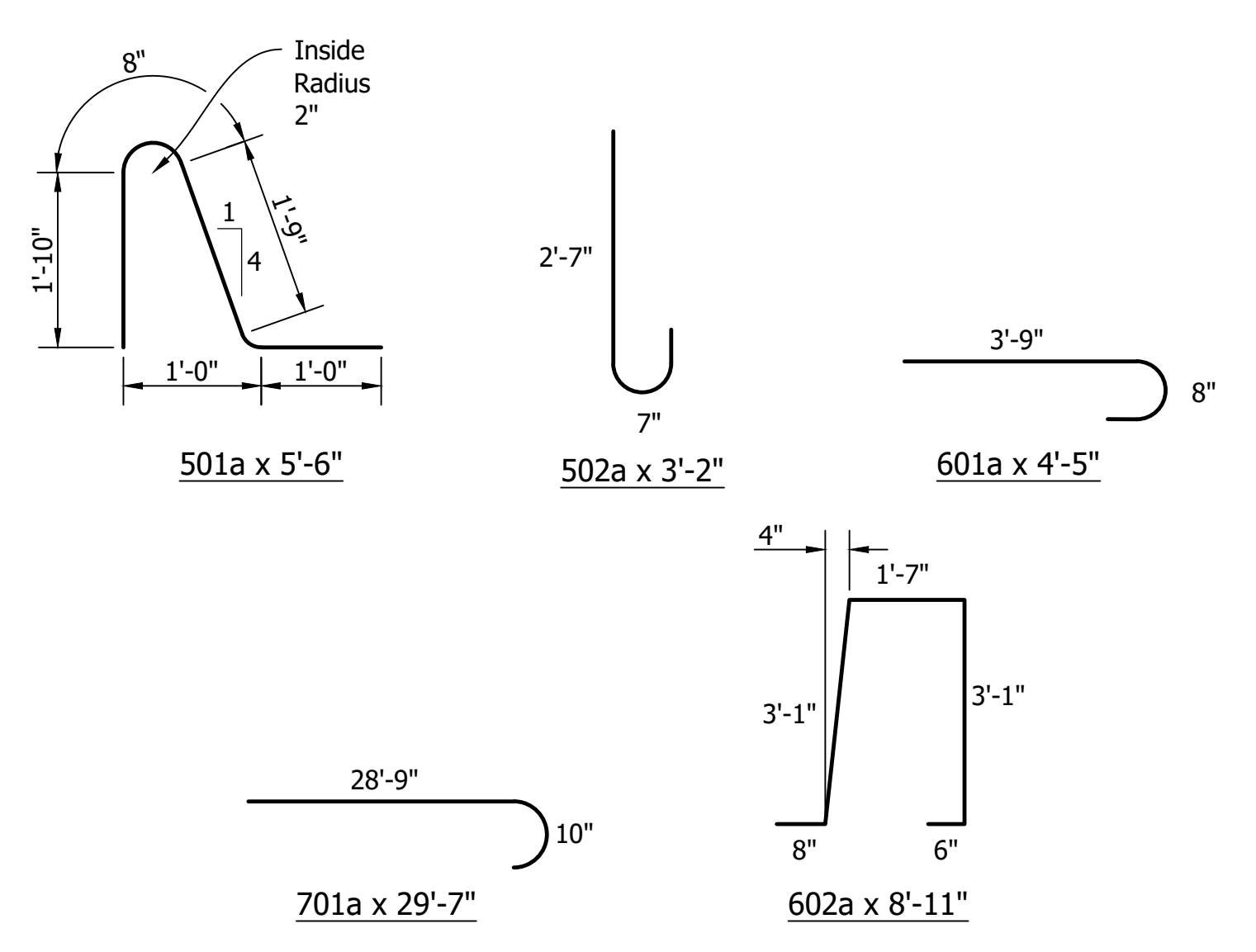
Girder No.	Deflections (inches)																																																		
	Location No.																																																		
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51
1	0.00	8.53	17.05	25.58	34.10	42.63	51.15	59.68	68.20	76.73	85.25	93.85	102.45	111.05	119.65	128.25	136.85	145.45	154.05	162.65	171.25	179.85	188.45	197.05	205.65	214.25	222.85	231.45	240.05	248.65	257.25	265.85	274.45	283.05	291.65	300.25	308.85	317.45	326.05	333.25	343.25	347.55	351.85	356.15	360.45	364.75	369.05	373.35	377.65	381.95	386.25
2	0.000	0.374	0.680	0.886	0.977	0.950	0.817	0.603	0.356	0.144	0.000	-0.053	-0.029	0.050	0.144	0.206	0.211	0.159	0.074	0.007	0.000	0.069	0.194	0.329	0.419	0.436	0.377	0.260	0.130	0.034	0.000	0.046	0.154	0.295	0.416	0.479	0.471	0.393	0.262	0.138	0.000	-0.030	-0.043	-0.041	-0.029	-0.011	0.007	0.018	0.020	0.013	0.000
3	0.000	0.470	0.855	1.115	1.231	1.199	1.033	0.765	0.453	0.182	0.000	-0.064	-0.026	0.078	0.198	0.271	0.277	0.212	0.104	0.014	0.000	0.088	0.248	0.417	0.526	0.548	0.479	0.335	0.169	0.044	0.000	0.060	0.200	0.380	0.530	0.608	0.597	0.497	0.332	0.174	0.000	-0.038	-0.055	-0.054	-0.039	-0.017	0.005	0.020	0.023	0.015	0.000
4	0.000	0.443	0.807	1.051	1.159	1.126	0.968	0.714	0.422	0.170	0.000	-0.062	-0.032	0.062	0.175	0.249	0.254	0.191	0.089	0.009	0.000	0.082	0.232	0.393	0.500	0.521	0.451	0.311	0.156	0.041	0.000	0.054	0.182	0.349	0.492	0.568	0.559	0.466	0.311	0.163	0.000	-0.035	-0.050	-0.049	-0.035	-0.013	0.008	0.021	0.024	0.016	0.000
5	0.000	0.322	0.599	0.796	0.893	0.885	0.778	0.593	0.364	0.141	0.000	0.002	0.102	0.236	0.352	0.409	0.391	0.302	0.171	0.046	0.000	0.089	0.254	0.421	0.537	0.571	0.516	0.387	0.221	0.071	0.000	0.057	0.189	0.329	0.438	0.489	0.472	0.391	0.262	0.139	0.000	-0.032	-0.047	-0.049	-0.039	-0.023	-0.007	0.005	0.010	0.008	0.000
6	0.000	0.247	0.458	0.609	0.684	0.678	0.597	0.456	0.280	0.109	0.000	-0.001	0.073	0.173	0.260	0.304	0.291	0.225	0.127	0.034	0.000	0.067	0.191	0.315	0.402	0.427	0.386	0.288	0.163	0.052	0.000	0.045	0.147	0.254	0.337	0.376	0.363	0.300	0.201	0.107	0.000	-0.025	-0.037	-0.038	-0.031	-0.019	-0.007	0.003	0.007	0.005	0.000



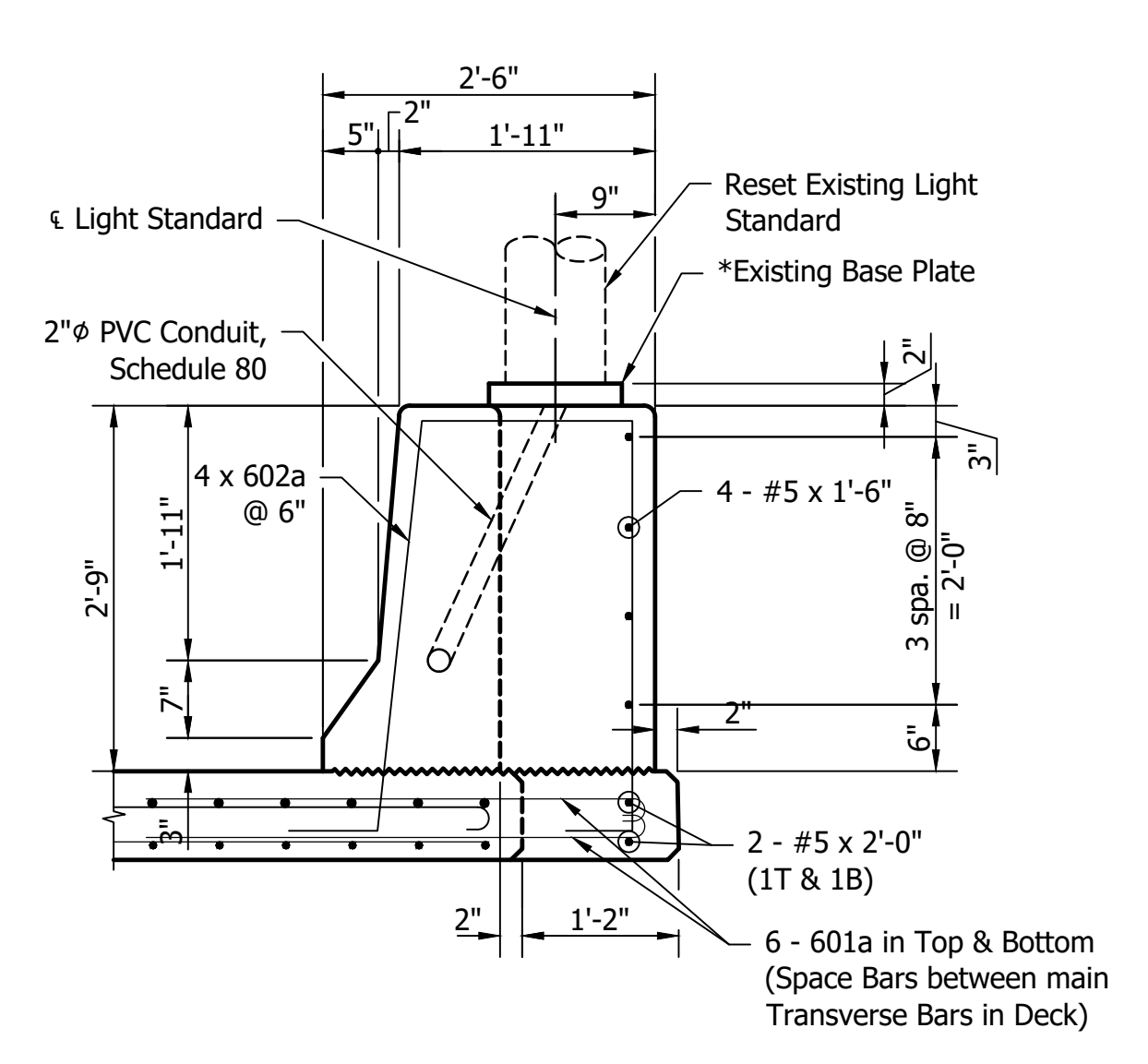
RECOMMENDED FOR APPROVAL: *[Signature]* 10/31/2016 DATE
DESIGN ENGINEER
DESIGNED: EAS DRAWN: GSB
CHECKED: NDB CHECKED: NDB

INDIANA DEPARTMENT OF TRANSPORTATION
FLOOR DETAILS NORTHBOUND STRUCTURE

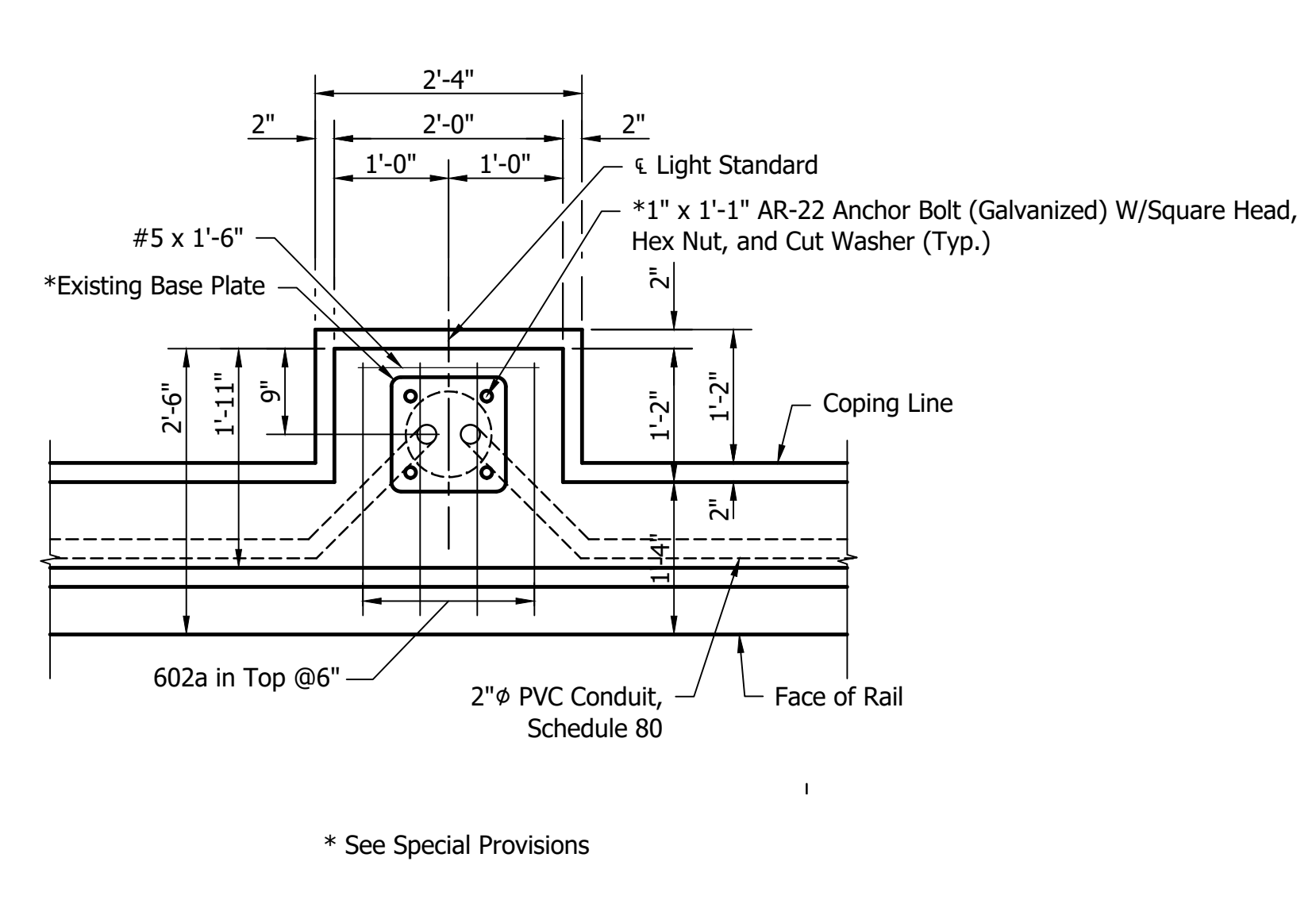
HORIZONTAL SCALE AS NOTED	BRIDGE FILE 041-82-4998C
VERTICAL SCALE AS NOTED	DESIGNATION 0200636
SURVEY BOOK	SHEET 27 of 31
CONTRACT B-33539	PROJECT 0200636



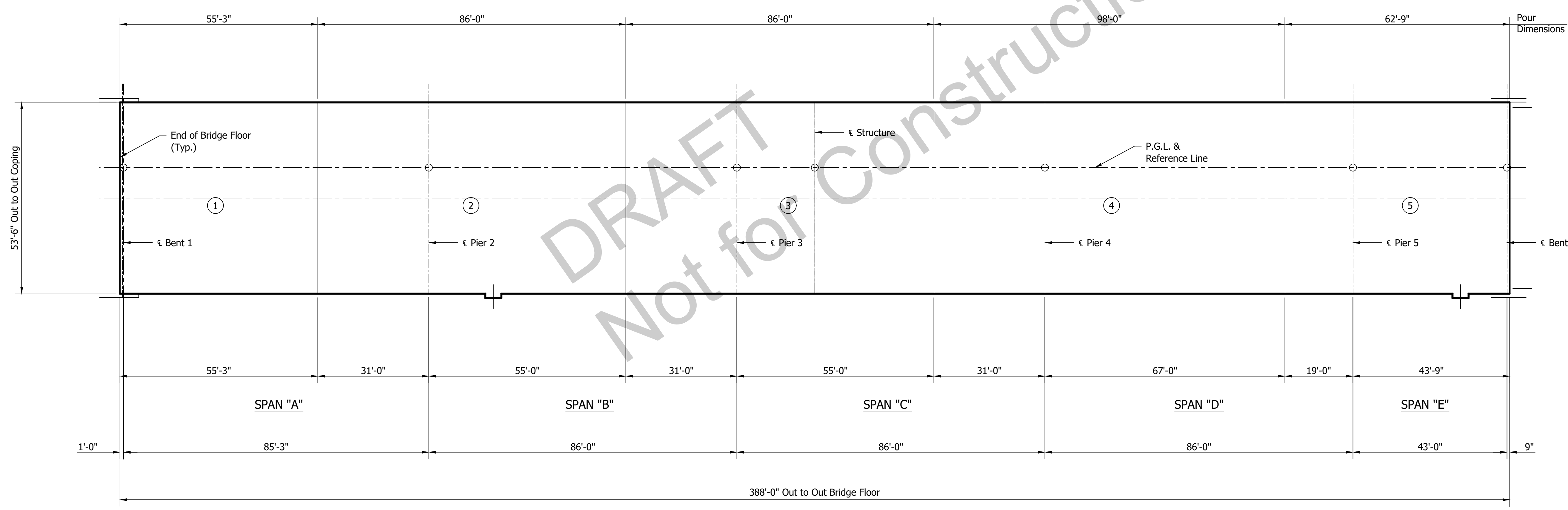
BAR BENDING DETAILS
Not to Scale



DETAILS AT LIGHT STANDARD
Not to Scale



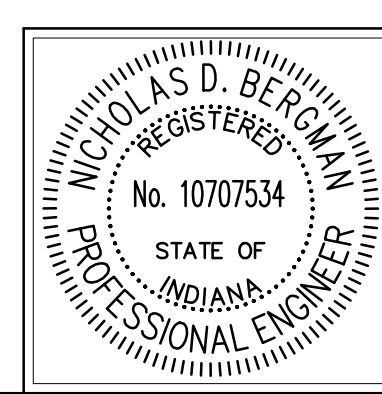
* See Special Provisions



Note: Pour Numbers Indicate Sequence of Pours

SEQUENCE OF POURS DIAGRAM
Scale: 1/16" = 1'-0"

BILL OF MATERIALS SUPERSTRUCTURE SPANS "A" THRU "E" NORTHBOUND STRUCTURE			
REINFORCING BARS			
Mark or Size	No. of Bars	Length (Ft.)	Weight (Lbs)
701a	1552	29'- 7"	
Total #7 (Epoxy Coated)			93,847
601a	12	4'- 5"	
602a	8	8'- 11"	
#6	1177	39'- 3"	
#6	1552	27'- 10"	
Total #6 (Epoxy Coated)			134,457
501a	1166	5'- 6"	
502a	2332	3'- 2"	
#5	1287	37'- 7"	
#5	4	2'- 0"	
#5	8	1'- 6"	
Total #5 (Epoxy Coated)			64,862
Total Steel (Epoxy Coated)			293,166
CONCRETE			
Class "C" in Superstructure			
Pour No. 1			76.0 Cys.
Pour No. 2			118.4 Cys.
Pour No. 3			118.3 Cys.
Pour No. 4			134.8 Cys.
Pour No. 5			86.4 Cys.
Total Class "C" in Superstructure			533.9 Cys.
Class "C" in Railing			74.7 Cys.
MISCELLANEOUS			
Barrier Delineators			22 Each
Threaded Tie Bar Assemblies (#5x3'-0" each way) (Epoxy Coated)			54 Each
Surface Seal			27,000 SFT
Cast Iron Roadway Drains Type "OS-D"			14 Each
Pipe, Roadway Drain Casting Extension			14 Each
Structural Steel			59,029 LBS
2" Ø PVC Conduit, Schedule 80			515 LFT

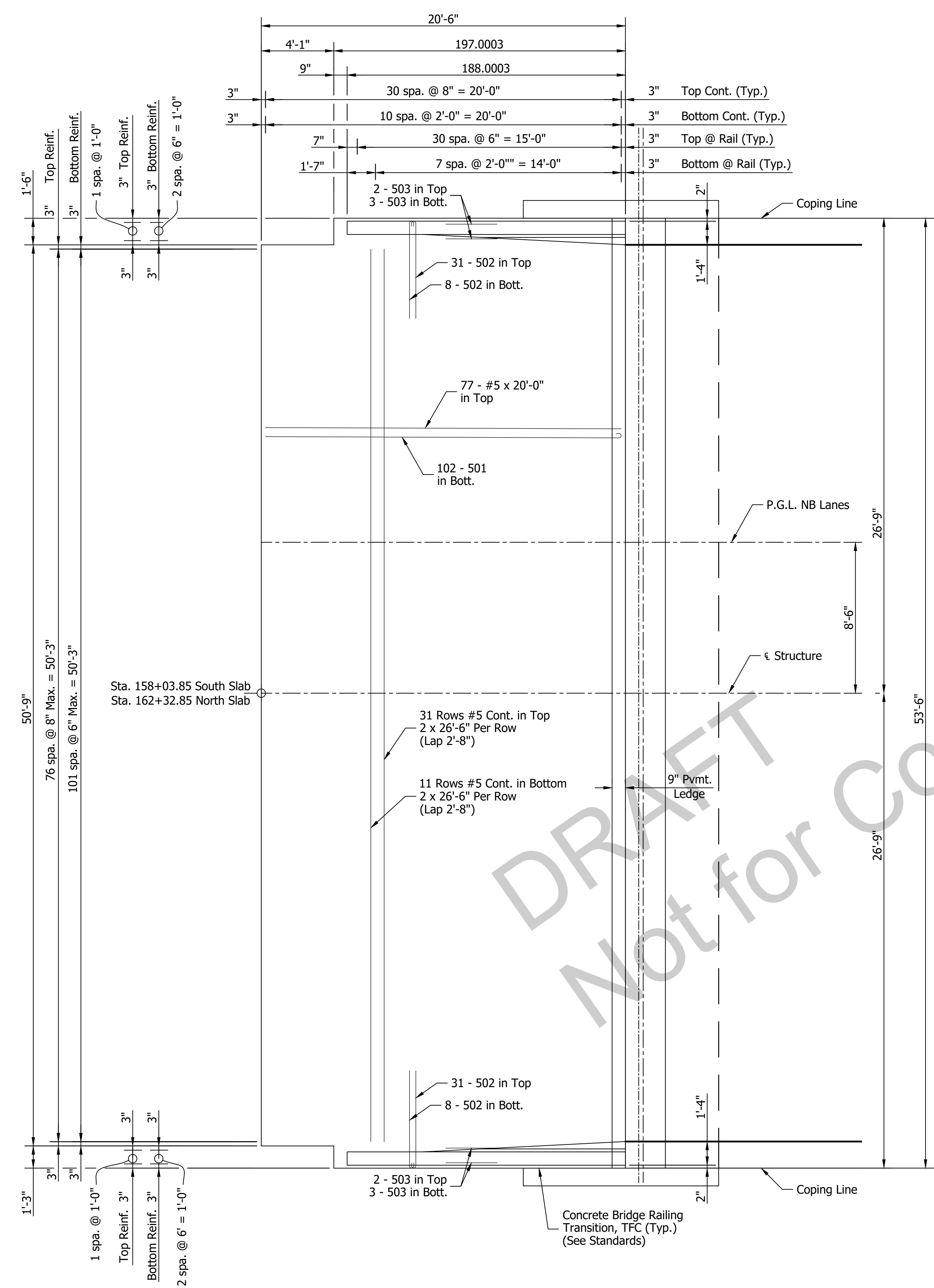


RECOMMENDED FOR APPROVAL	<i>[Signature]</i>	DESIGN ENGINEER	10/31/2016	DATE
DESIGNED:	EAS	DRAWN:	GSB	
CHECKED:	NDB	CHECKED:	NDB	

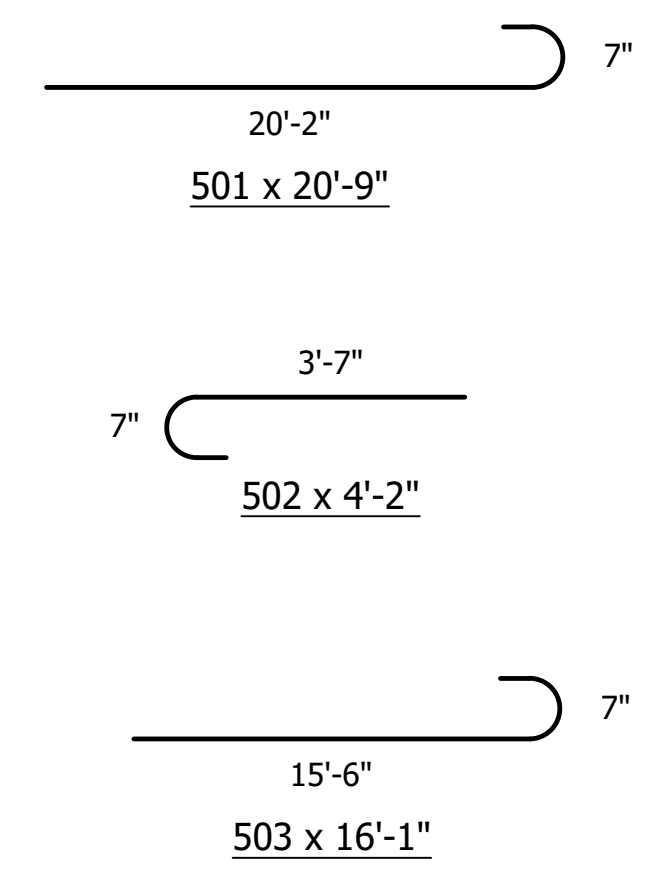
INDIANA
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FLOOR DETAILS
NORTHBOUND STRUCTURE

HORIZONTAL SCALE	AS NOTED	BRIDGE FILE	041-82-4998C
VERTICAL SCALE	AS NOTED	DESIGNATION	0200636
SURVEY BOOK		SHEET	29 of 31
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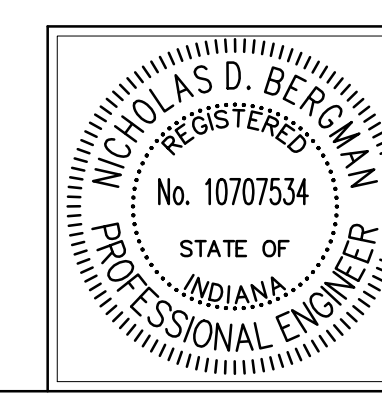
**SOUTH APPROACH SLAB (SHOWN)
 NORTH APPROACH SLAB (OPP. HAND)**
 Scale: 1/4" = 1'-0"



BAR BENDING DETAILS
 Not to Scale

BILL OF MATERIALS			
SOUTH APPR. SLAB			
NORTH APPR. SLAB (SAME)			
NORTHBOUND STRUCTURE			
REINFORCING BARS			
Mark or Size	No. of Bars	Length (Ft.)	Weight (Lbs)
501	102	20'- 9"	
502	78	4'- 2"	
503	10	16'- 1"	
#5	84	26'- 6"	
#5	77	20'- 0"	
Total Steel (Epoxy Coated)			6,643
CONCRETE			
Reinforced Concrete Bridge Approach (12")			122 Sys.
MISCELLANEOUS			
Dense Graded Subbase			21.0 Cys.
Concrete Bridge Railing Transisiton, TFC			2 Each
Surface Seal			1,440 SFT
Terminal Joint			51 LFT

* Note:
 Sleeper Slab and Terminal Joint Required at North Approach Slab only if Concrete Payment Option is used.



RECOMMENDED FOR APPROVAL	<i>[Signature]</i>	DESIGN ENGINEER	DATE
			10/31/2016
DESIGNED:	EAS	DRAWN:	GSR
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INDIANA
 DEPARTMENT OF TRANSPORTATION

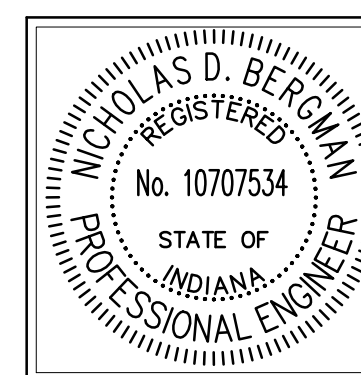
APPROACH SLAB DETAILS
 NORTHBOUND STRUCTURE

HORIZONTAL SCALE	BRIDGE FILE
AS NOTED	041-82-4998C
VERTICAL SCALE	DESIGNATION
AS NOTED	0200636
SURVEY BOOK	SHEET
	30 of 31
CONTRACT	PROJECT
B-33539	0200636

SUMMARY OF BRIDGE QUANTITIES

ITEM	CONCRETE				CONCRETE RAILING CLASS C	REINF. BARS	REINF. BARS, EPOXY COATED	BARRIER DELINEATORS	REINF. CONC. BRIDGE APPROACH (12 IN)	DENSE GRADED SUBBASE	STRUCT. STEEL	FIELD DRILLED HOLES	PILES										GRATES, BASINS, & FITTINGS, CAST IRON	EXP. JOINT TYPE	CONC. STR. MEMBERS		SURFACE SEAL			
	CLASS C	CLASS A	CLASS B	CLASS B									STEEL PIPE (SIZE)	STEEL PIPE EPOXY COATED (SIZE)	STEEL H (12 x 53)	STEEL H EPOXY COATED	STEEL H REINF. CONC. ENCASED	TEST PILE, DYNAMIC, PRODUCTI ON	TEST PILE, DYNAMIC, RESTRICTED	PILE SHOE (12 x 53)	PILE TIP STEEL H (SIZE)	CORED HOLE IN ROCK			NO.	LFT		BOX BEAM TYPE & SIZE	I-BEAM TYPE & SIZE	
	SUPERSTR	SUBSTR	ABOVE FTG.	IN FTG.									LFT	LFT	LFT	LFT	LFT	LFT	EACH	EACH	EACH	EACH			EACH	LFT		LFT	LFT	LFT
SUPERSTRUCTURE	CYS	CYS	CYS	CYS	CYS	LBS	LBS	EACH	SYS	CYS	LBS	EACH	LFT	LFT	LFT	LFT	LFT	LFT	LFT	EACH	EACH	EACH	NO.	LFT	EACH	LFT	LFT	LFT	SFT	
Deck	533.9						278,655				59,029															14				22,000
Concrete Barrier Rail/Transitions					74.7		16,715	22																						5,000
SUBSTRUCTURE																														
End Bent 1	28.8	7.6					5,644					176																		
Pier 2		1.4					184					36																		
Pier 3		1.4					184					36																		
Pier 4		1.4					184					36																		
Pier 5		24.7					3,687																							
End Bent 6	16.1	19.5					5,853					48																		
Wingwall 1		11.0					3,035																							
Wingwall 6		4.6					1,215																							
Approach Slabs							13,286		244.0	42.0																				2,880
TOTALS	578.8	71.6			74.7	4,239	324,403	22	244.0	42.0	59,029	332													14				29,880	

DRAFT
Not for Construction



RECOMMENDED FOR APPROVAL: *NDB* 10/31/2016
DESIGN ENGINEER DATE

DESIGNED: EAS DRAWN: GSB
CHECKED: NDB CHECKED: NDB

INDIANA
DEPARTMENT OF TRANSPORTATION

BRIDGE SUMMARY

HORIZONTAL SCALE	BRIDGE FILE
AS NOTED	041-82-4998C
VERTICAL SCALE	DESIGNATION
AS NOTED	0200636
SURVEY BOOK	SHEET
	31 of 31
CONTRACT	PROJECT
B-33539	0200636