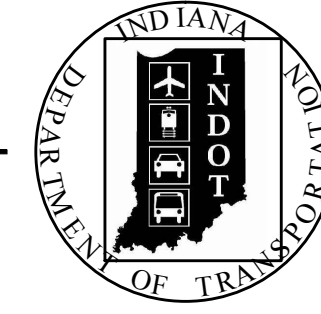


PROJECT	DESIGNATION
0200635	0200635
CONTRACT	BRIDGE FILE
B-33539	041-82-4999JB

STRUCTURE	TYPE	SPAN AND SKEW	OVER	STATION
041-82-4999JB	BUILT-UP STEEL PLATE GIRDER BRIDGE	1@40'-0", 1@65'-0", 3@81'-0", 2@65'-0", 3@81'-0", 2@65'-0", 3@81'-0", 1@65'-0" AND 1@40'-0" NO SKEW	EAGLE CREEK	± STRUCTURE STA. 188+04.75

# INDIANA DEPARTMENT OF TRANSPORTATION



TRAFFIC DATA	
A.A.D.T. (2013)	20230 V.P.D.
A.A.D.T. (2017)	21260 V.P.D.
A.A.D.T. (2037)	26720 V.P.D.
DIRECTIONAL DISTRIBUTION	100 %
TRUCKS	9 % A.A.D.T.
DESIGN DATA	
DESIGN SPEED	50 M.P.H.
POSTED SPEED	50 M.P.H.
PROJECT DESIGN CRITERIA	3R NON-FREEWAY
FUNCTIONAL CLASSIFICATION	PRINCIPAL ARTERIAL
RURAL/URBAN	URBAN
TERRAIN	LEVEL
ACCESS CONTROL	NONE

KIN PROJECT INFORMATION	
DESIGNATION	PROJECT DESCRIPTION
0100482	U.S. 41 over SB Cheatam Slough
9620260	U.S. 41 over NB Cheatam Slough
0200633	U.S. 41 over SB Ohio River Overflow
0200636	U.S. 41 over NB Ohio River Overflow
0200635	U.S. 41 over SB Eagle Creek
0200634	U.S. 41 over NB Eagle Creek
1298275	U.S. 41 over SB Ohio River
1592481	Roadway Plans from Cheatam Slough to Eagle Creek

## BRIDGE REHABILITATION PLANS FOR SPANS OVER 20 FEET U.S. 41 SB OVER EAGLE CREEK PROJECT NO. 0200635

DECK RECONSTRUCTION ON STRUCTURES: 041-82-4999JB, U.S. 41 SB OVER EAGLE CREEK LOCATED APPROXIMATELY 0.32 MILES SOUTH OF THE U.S.41 AND I-69 INTERCHANGE, IN SECTION 4, TOWNSHIP 7 SOUTH, RANGE 10 WEST, VANDERBURGH COUNTY, INDIANA.

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

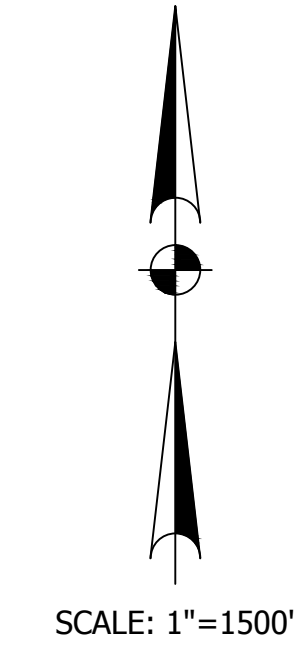
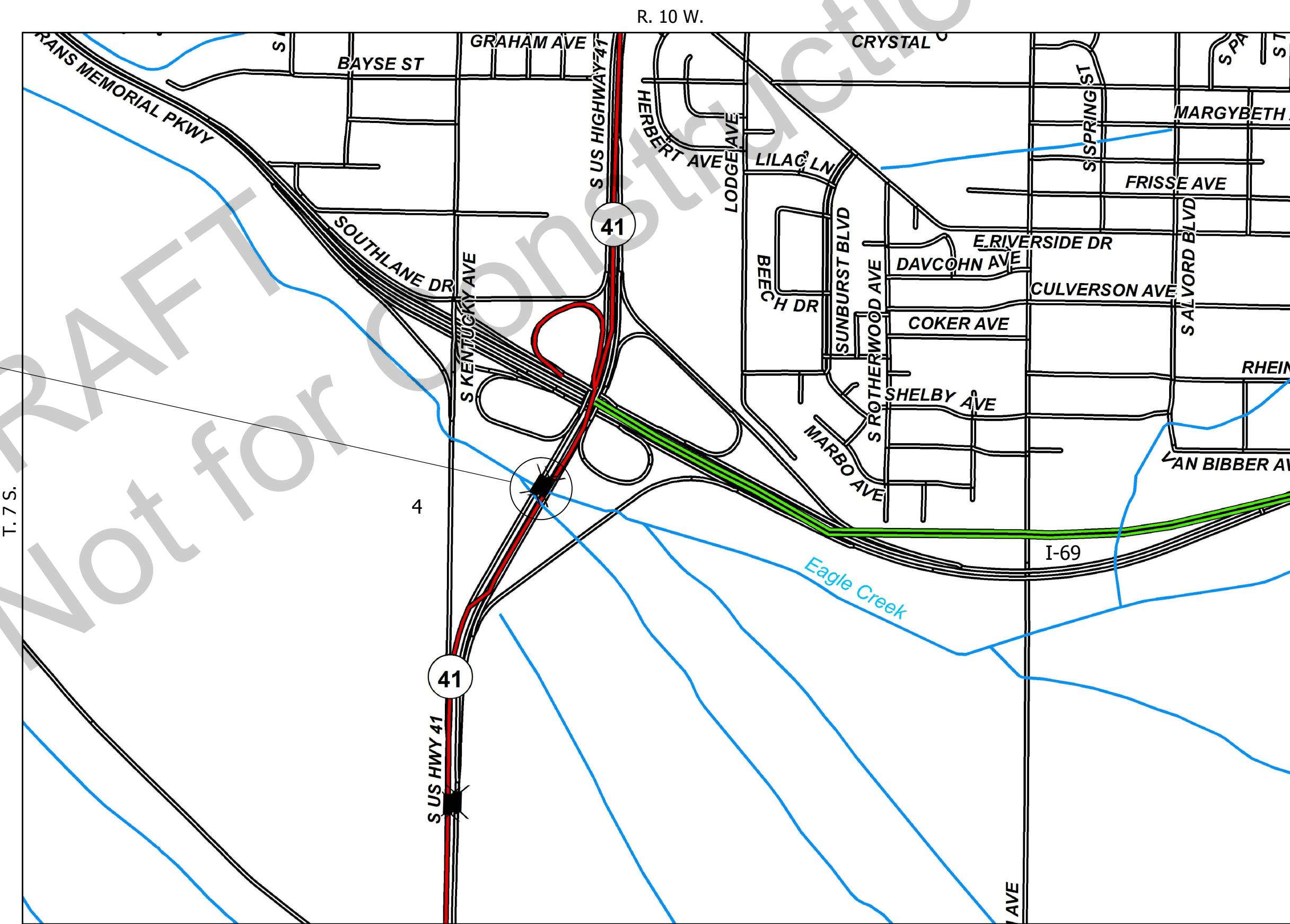


LATITUDE: 37°56'17" N. & LONGITUDE: 87°32'44" W.

H.U.C. = 05140202010020

R.P. 0+98

SB STRUCTURE: 041-82-4999JB

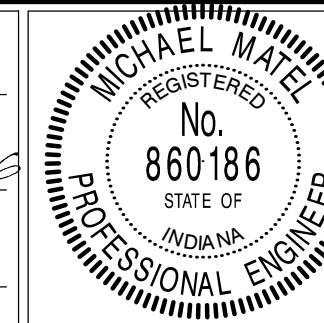


VICINITY MAP  
VANDERBURGH COUNTY

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

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

PLANS PREPARED BY: Butler Fairman and Seufert Inc. (317)713-4615  
 CERTIFIED BY: *Michael Mater* 10/31/16  
 APPROVED FOR LETTING: INDIANA DEPARTMENT OF TRANSPORTATION DATE



BRIDGE FILE	
041-82-4999JB	
DESIGNATION	
0200635	
SURVEY BOOK	SHEET
CONTRACT	PROJECT
B-33539	0200635

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## UTILITIES

<p><b>COMMUNICATIONS: AT&amp;T</b> 134 NW Sixth Street Evansville, Indiana 47708 ATTN: Marc Clark P. (812) 464-6050 E. mc3429@att.com</p> <p><b>AT&amp;T</b> 134 NW Sixth Street Evansville, Indiana 47708 ATTN: Andy Folz P. (812) 464-6055 E. af1896@att.com</p> <p><b>WINDSTREAM COMMUNICATIONS</b> 5020 Smythe Drive Evansville, Indiana 47715 ATTN: Daniel Leskinen E. Daniel.leskinen@windstream.com P. (812) 759-2833 P. (812) 455-9558 (CELL)</p> <p><b>TIME WARNER CABLE</b> 1900 N. Fares Avenue Evansville, Indiana 47711 ATTN: Daryl Hulsey E. daryl.hulsey@twcable.com P. (812) 253-2755 P. (812) 305-8348 (CELL)</p>	<p><b>ELECTRIC: KENERGY CORPORATION</b> ATTN: Kyle Hart P. (270) 831-4602 E. khart@kenenergycorp.com</p> <p><b>VECTREN</b> Jody Chapman 1 North Main Street Evansville, Indiana 47711 E. jwchapman@vectren.com</p> <p><b>INDOT: SIGNALS &amp; LIGHTING</b> ATTN: Robert Horton E. rhorton@indot.in.gov P. (812) 699-0643 P. (812) 698-4743 (CELL)</p> <p><b>ITS TECHNOLOGY</b> ATTN: Konstantin Veygman E. kveygman@indot.in.gov P. (317) 899-8606</p> <p><b>WEIGHT STATION: JACK MANN SCALES, INC.</b> 2073 Mercer Road Lexington, Kentucky 40511 ATTN: Larry Stagner E. larry@jackmannscales.com P. (859) 233-0322</p> <p><b>KYTC</b> ATTN: David Cornett E. davidp.cornett@ky.gov P. (502) 564-4556</p>	
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### REVISIONS

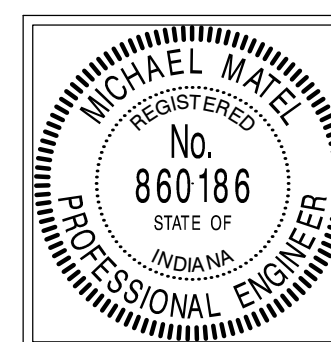
SHEET NO.	DATE	REVISED

## INDEX

SHEET NO.	DESIGNATION
1	TITLE SHEET
2	INDEX SHEET
3-5	GENERAL PLAN EXISTING STRUCTURE
6-8	GENERAL PLAN PROPOSED STRUCTURE
9-10	TYPICAL SECTIONS
11-13	BENT NO.1 OR NO.18 DETAILS - SOUTHBOUND STRUCTURE
14	PEDESTAL DETAILS - SOUTHBOUND STRUCTURE
15-16	PIERS NO.2 OR NO.17 DETAILS - SOUTHBOUND STRUCTURE
17-18	PIERS NO.7 OR NO.12 DETAILS - SOUTHBOUND STRUCTURE
19-23	STRUCTURAL STEEL DETAILS - SOUTHBOUND STRUCTURE
24-31	FLOOR DETAILS - SOUTHBOUND STRUCTURE
32	APPROACH SLAB DETAILS - SOUTHBOUND STRUCTURE
33	BRIDGE SUMMARY - SOUTHBOUND STRUCTURE

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

DRAFT  
Not for Construction



RECOMMENDED FOR APPROVAL: *Michael Matel* 10/31/16  
DESIGN ENGINEER DATE

DESIGNED: D. SHEETZ DRAWN: D. SHEETZ  
CHECKED: M. MATEL CHECKED: M. MATEL

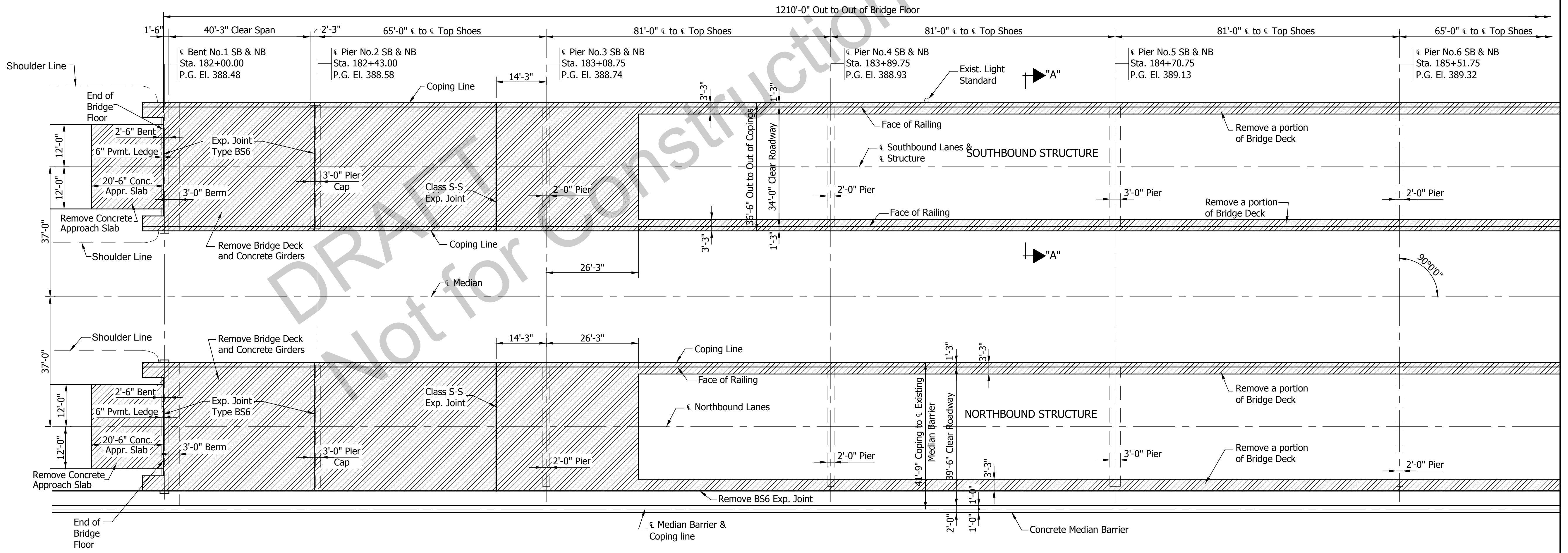
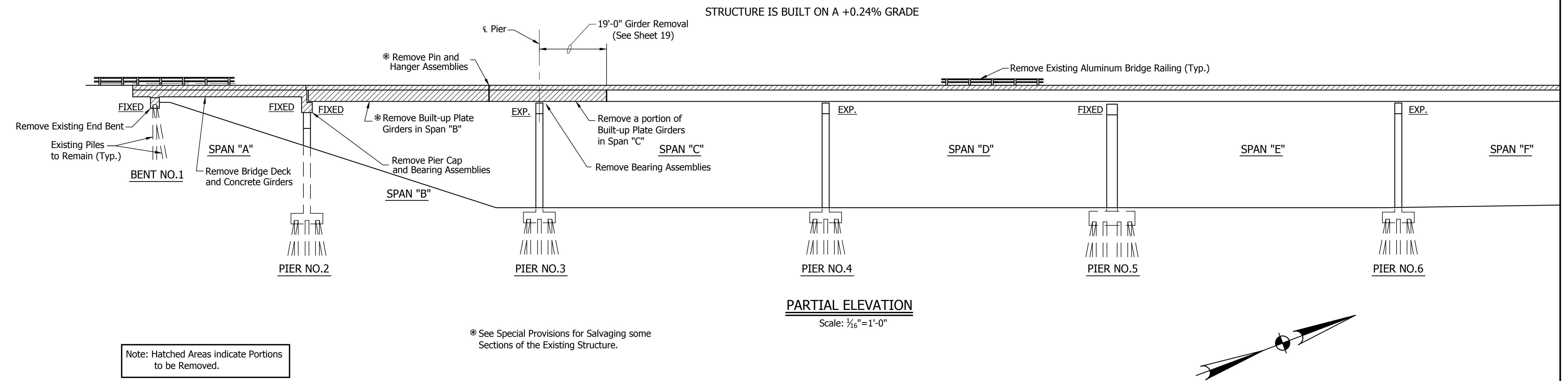
**INDIANA  
DEPARTMENT OF TRANSPORTATION**

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**INDEX SHEET**

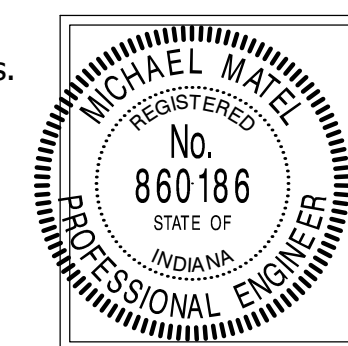
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VERTICAL SCALE NONE	DESIGNATION 0200635
SURVEY BOOK	SHEET 2 OF 33
CONTRACT B-33539	PROJECT 0200635

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

**NOTES**  
See Sheets 6 thru 8 for Proposed Structure General Plans.  
See Sheet 9 for Section "A-A".



RECOMMENDED FOR APPROVAL: <i>Michael M. Matel</i>	DATE: 10/31/16
DESIGNED: D. SHEETZ	DRAWN: D. SHEETZ
CHECKED: M. MATEL	CHECKED: M. MATEL

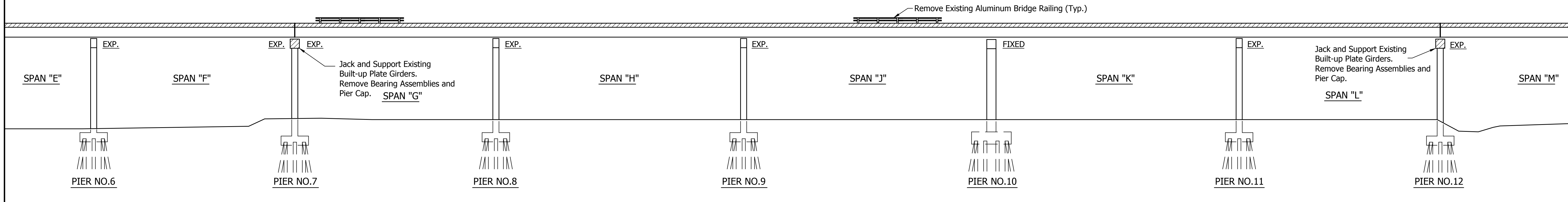
**INDIANA  
DEPARTMENT OF TRANSPORTATION**

**GENERAL PLAN  
EXISTING SOUTHBOUND STRUCTURE**

HORIZONTAL SCALE AS NOTED	BRIDGE FILE 041-82-4999JB
VERTICAL SCALE AS NOTED	DESIGNATION 0200635
SURVEY BOOK	SHEET
3	OF 33
CONTRACT B-33539	PROJECT 0200635

BIF5 NO. 5605

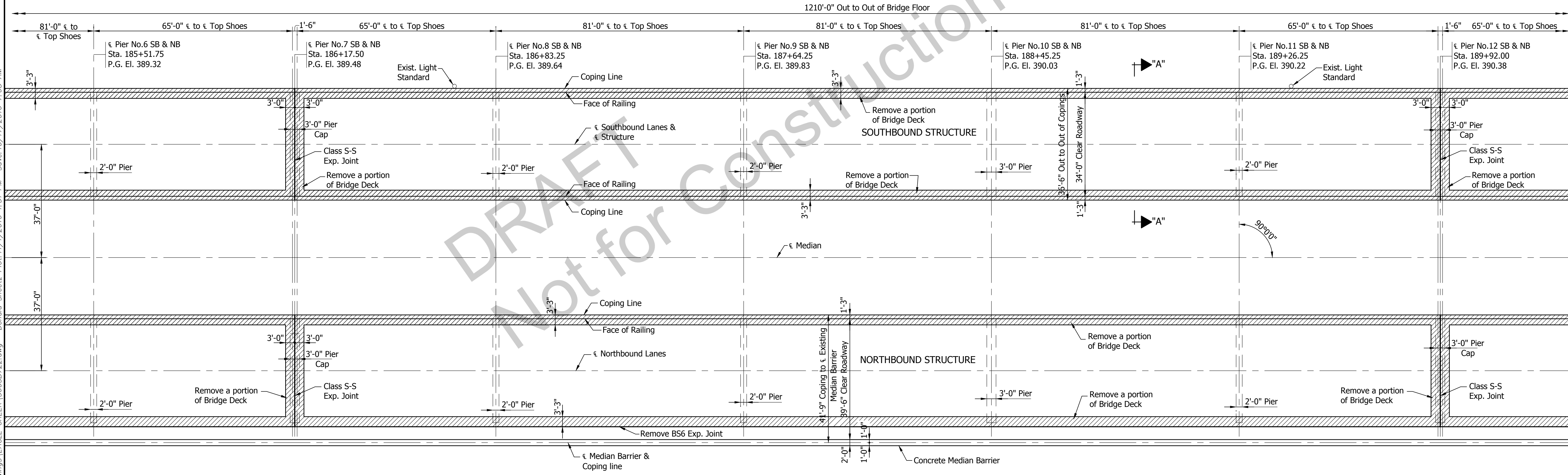
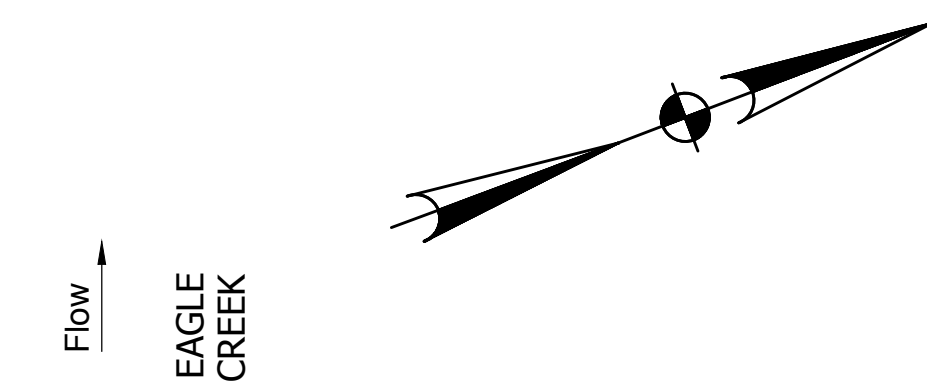
STRUCTURE IS BUILT ON A +0.24% GRADE



**PARTIAL ELEVATION**

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

Note: Hatched Areas Indicate Portions to be Removed.



**PARTIAL PLAN**

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

**TWIN CONTINUOUS STEEL PLATE GIRDER AND R.C. GIRDER BRIDGES**

17 SPANS: 1 AT 40'-0", 1 AT 65'-0", 3 AT 81'-0", 2 AT 65'-0", 3 AT 81'-0", 2 AT 65'-0", 3 AT 81'-0", 1 AT 65'-0" AND 1 AT 40'-0" NO SKEW, 34'-0" CLEAR ROADWAY, ON U.S. 41 SOUTHBOUND OVER EAGLE CREEK

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

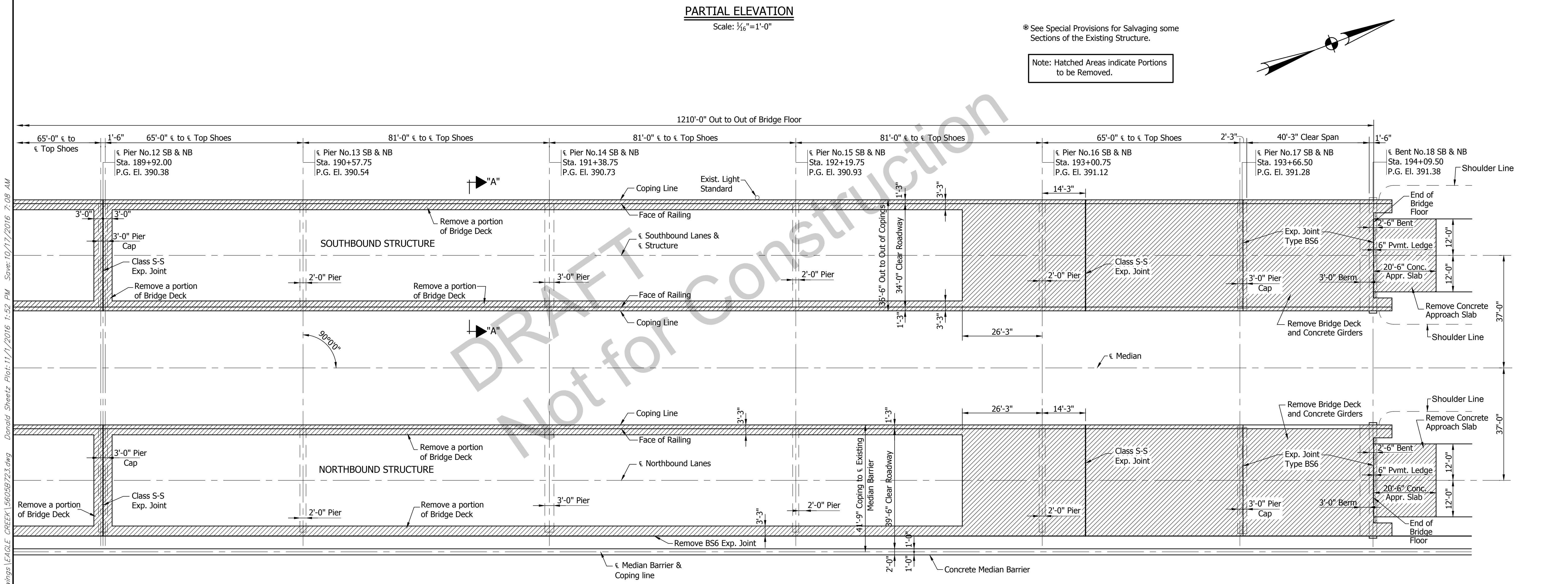
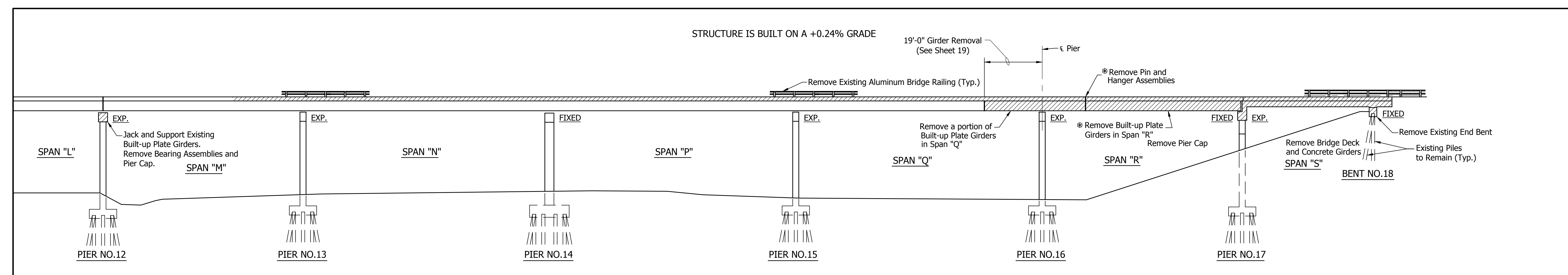
NOTES  
See Sheets 6 thru 8 for Proposed Structure General Plans. See Sheet 9 for Section "A-A".

	RECOMMENDED FOR APPROVAL: <i>Michael Matel</i> 10/31/16 DESIGN ENGINEER DATE	<b>INDIANA</b> <b>DEPARTMENT OF TRANSPORTATION</b>  <b>GENERAL PLAN</b> <b>EXISTING SOUTHBOUND STRUCTURE</b>	HORIZONTAL SCALE AS NOTED	BRIDGE FILE 041-82-4999J8
	DESIGNED: D. SHEETZ DRAWN: D. SHEETZ		VERTICAL SCALE AS NOTED	DESIGNATION 0200635
	CHECKED: M. MATEL CHECKED: M. MATEL		SURVEY BOOK	SHEET 4 OF 33
			CONTRACT B-33539	PROJECT 0200635

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

NOTES  
See Sheets 6 thru 8 for Proposed Structure General Plans.  
See Sheet 9 for Section "A-A".

	RECOMMENDED FOR APPROVAL: <i>Michael M. Matel</i> 10/31/16 DESIGN ENGINEER DATE
	DESIGNED: D. SHEETZ DRAWN: D. SHEETZ
	CHECKED: M. MATEL CHECKED: M. MATEL

**INDIANA DEPARTMENT OF TRANSPORTATION**

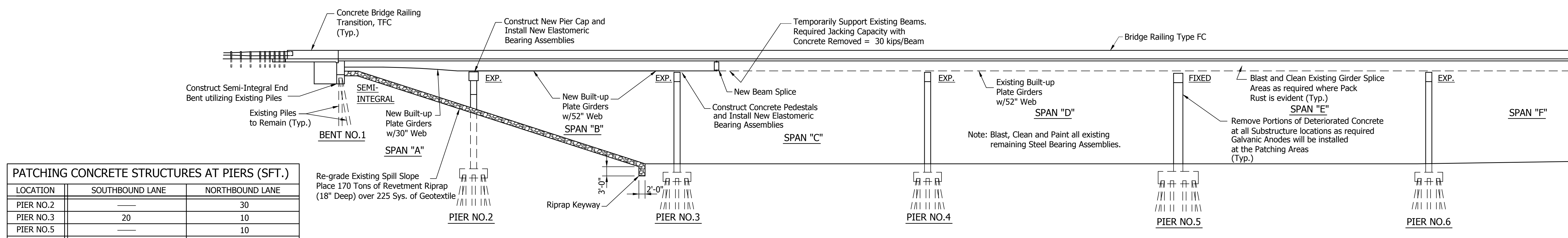
**GENERAL PLAN**

**EXISTING SOUTHBOUND STRUCTURE**

HORIZONTAL SCALE AS NOTED	BRIDGE FILE 041-82-4999JB
VERTICAL SCALE AS NOTED	DESIGNATION 0200635
SURVEY BOOK	SHEET 5 OF 33
CONTRACT B-33539	PROJECT 0200635

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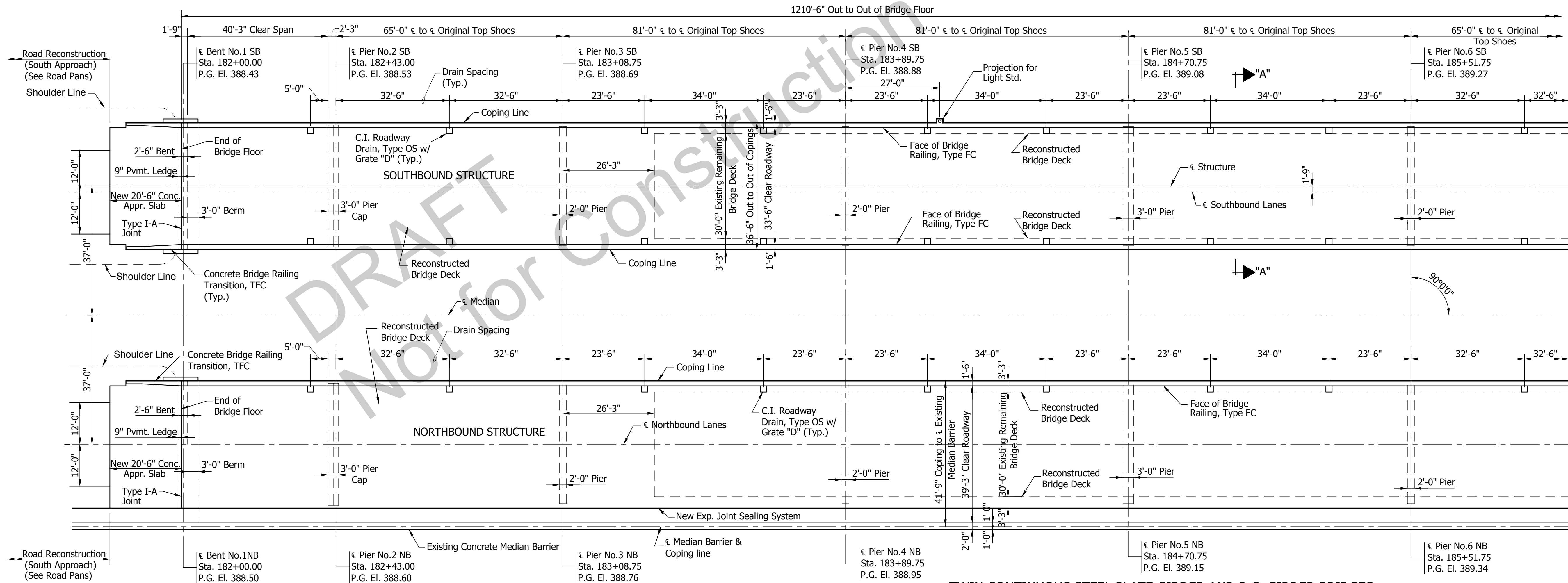
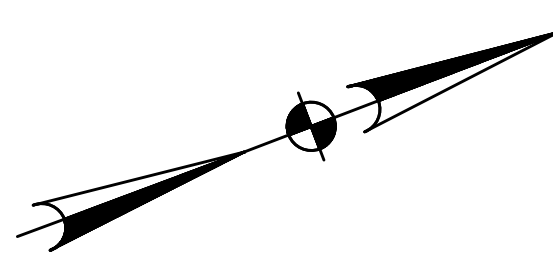
STRUCTURE IS BUILT ON A +0.24% GRADE



PATCHING CONCRETE STRUCTURES AT PIERS (SFT.)		
LOCATION	SOUTHBOUND LANE	NORTHBOUND LANE
PIER NO.2	—	30
PIER NO.3	20	10
PIER NO.5	—	10
PIER NO.7	350	150
PIER NO.9	—	10
PIER NO.11	10	10
PIER NO.12	40	80
PIER NO.15	50	—
PIER NO.17	50	20

GALVANIC ANODES FOR CONCRETE PATCHING	
LOCATION	QUANTITY
PIERS	380 EACH

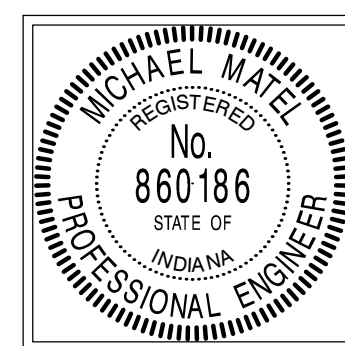
Note: Install 17 Snowplowable Raised Pavement Markers. (Total Required per Structure)



**TWIN CONTINUOUS STEEL PLATE GIRDER AND R.C. GIRDER BRIDGES**  
 17 SPANS: 1 AT 40'-0", 1 AT 65'-0", 3 AT 81'-0", 2 AT 65'-0", 3 AT 81'-0", 2 AT 65'-0", 3 AT 81'-0", 1 AT 65'-0" AND 1 AT 40'-0" NO SKEW, 33'-6" CLEAR ROADWAY, ON U.S. 41 SOUTHBOUND OVER EAGLE CREEK

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

NOTES  
 See Sheets 3 thru 5 for Existing Structure General Plans.  
 See Sheet 10 for Section "A-A", General Notes, Design Data and Construction Loading.



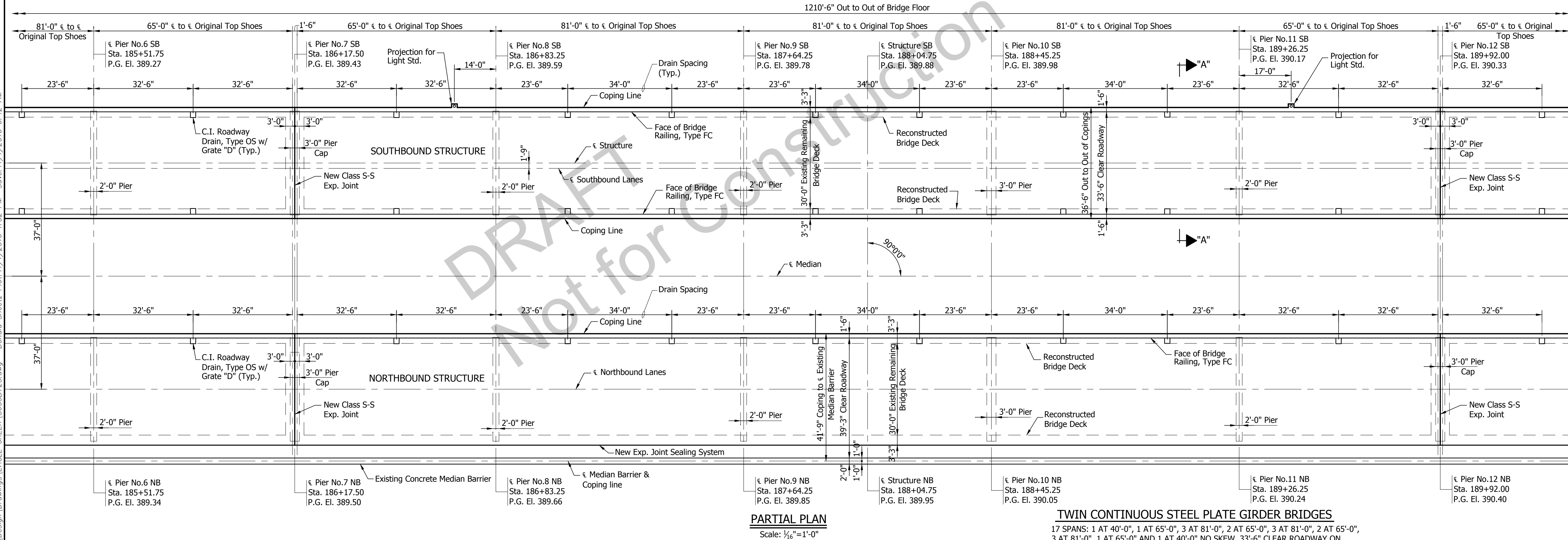
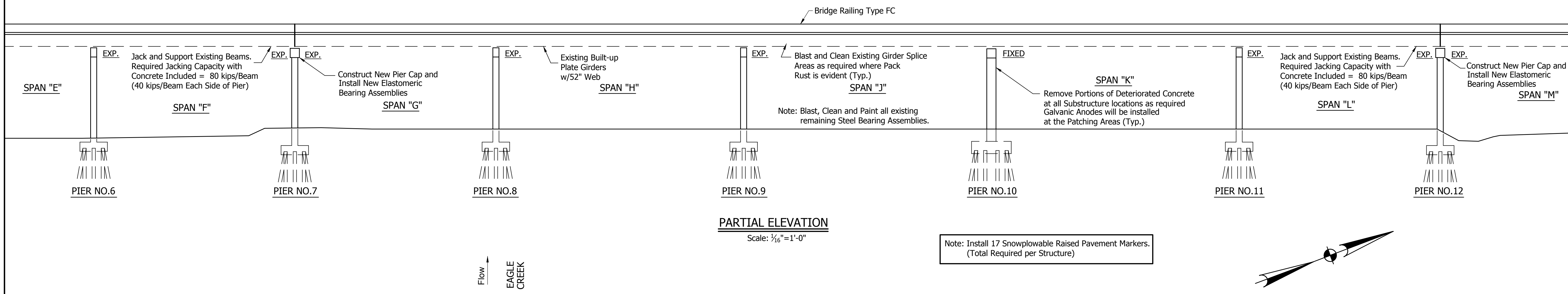
RECOMMENDED FOR APPROVAL: *Michael M. Matel* 10/31/16  
 DESIGN ENGINEER DATE  
 DESIGNED: D. SHEETZ DRAWN: D. SHEETZ  
 CHECKED: M. MATEL CHECKED: M. MATEL

INDIANA DEPARTMENT OF TRANSPORTATION  
 GENERAL PLAN  
 PROPOSED SOUTHBOUND STRUCTURE

HORIZONTAL SCALE	BRIDGE FILE
AS NOTED	041-82-4999JB
VERTICAL SCALE	DESIGNATION
AS NOTED	0200635
SURVEY BOOK	SHEET
	6 OF 33
CONTRACT	PROJECT
B-33539	0200635

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STRUCTURE IS BUILT ON A +0.24% GRADE



**PARTIAL PLAN**  
Scale: 1/16" = 1'-0"

**TWIN CONTINUOUS STEEL PLATE GIRDER BRIDGES**

17 SPANS: 1 AT 40'-0", 1 AT 65'-0", 3 AT 81'-0", 2 AT 65'-0", 3 AT 81'-0", 2 AT 65'-0", 3 AT 81'-0", 1 AT 65'-0" AND 1 AT 40'-0" NO SKEW, 33'-6" CLEAR ROADWAY ON U.S.41 SOUTHBOUND OVER EAGLE CREEK

**NOTES**  
See Sheets 3 thru 5 for Existing Structure General Plans. See Sheet 6 for Patching Concrete Structure Quantities. See Sheet 10 for Section "A-A", General Notes, Design Data and Construction Loading.

	RECOMMENDED FOR APPROVAL: <i>Michael M. Matel</i> 10/31/16 DESIGN ENGINEER DATE
	DESIGNED: D. SHEETZ DRAWN: D. SHEETZ
	CHECKED: M. MATEL CHECKED: M. MATEL

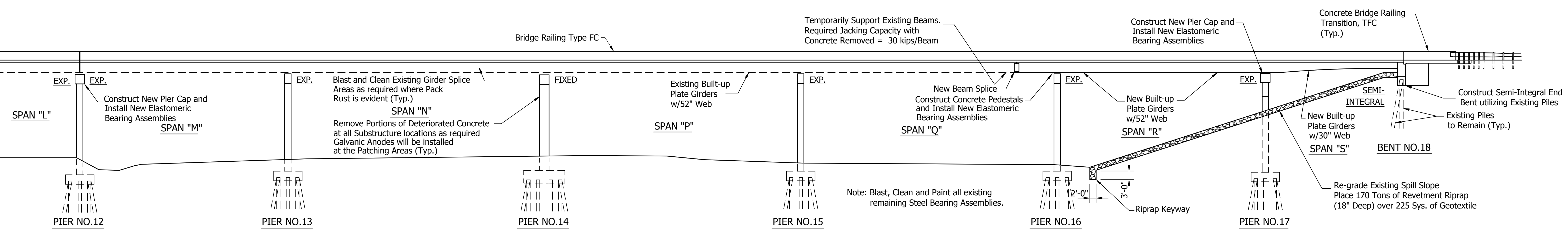
INDIANA DEPARTMENT OF TRANSPORTATION

GENERAL PLAN  
PROPOSED SOUTHBOUND STRUCTURE

HORIZONTAL SCALE AS NOTED	BRIDGE FILE 041-82-4999JB
VERTICAL SCALE AS NOTED	DESIGNATION 0200635
SURVEY BOOK	SHEET 7 OF 33
CONTRACT B-33539	PROJECT 0200635

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STRUCTURE IS BUILT ON A +0.24% GRADE

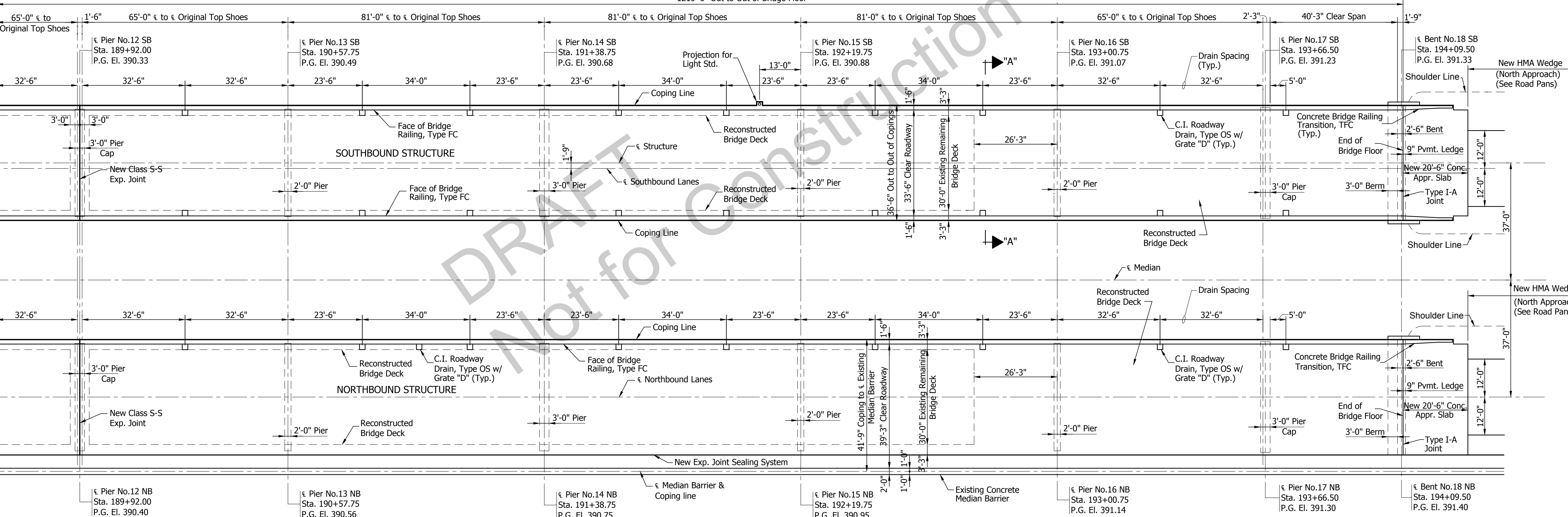


**PARTIAL ELEVATION**

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

Note: Install 17 Snowplowable Raised Pavement Markers. (Total Required per Structure)

1210'-6" Out to Out of Bridge Floor



**PARTIAL PLAN**

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

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

**NOTES**  
See Sheets 3 thru 5 for Existing Structure General Plans. See Sheet 6 for Patching Concrete Structure Quantities. See Sheet 10 for Section "A-A", General Notes, Design Data and Construction Loading.

	RECOMMENDED FOR APPROVAL: <i>Michael Matel</i> 10/31/16 DESIGN ENGINEER DATE
	DESIGNED: D. SHEETZ DRAWN: D. SHEETZ
	CHECKED: M. MATEL CHECKED: M. MATEL

**TWIN CONTINUOUS STEEL PLATE GIRDER BRIDGES**  
17 SPANS: 1 AT 40'-0", 1 AT 65'-0", 3 AT 81'-0", 2 AT 65'-0", 3 AT 81'-0", 2 AT 65'-0", 3 AT 81'-0", 1 AT 65'-0" AND 1 AT 40'-0" NO SKEW, 33'-6" CLEAR ROADWAY ON U.S.41 SOUTHBOUND OVER EAGLE CREEK

INDIANA DEPARTMENT OF TRANSPORTATION  
**GENERAL PLAN**  
PROPOSED SOUTHBOUND STRUCTURE

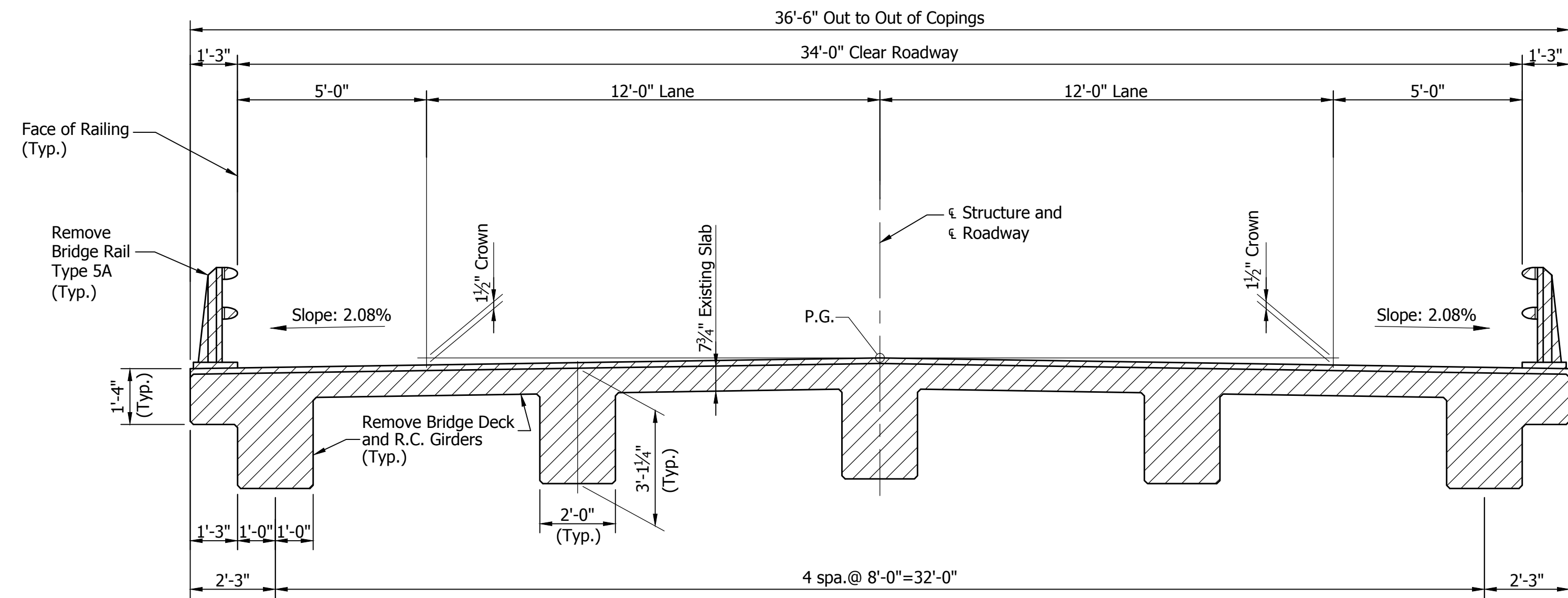
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VERTICAL SCALE AS NOTED	DESIGNATION 0200635
SURVEY BOOK	SHEET 8 OF 33
CONTRACT B-33539	PROJECT 0200635

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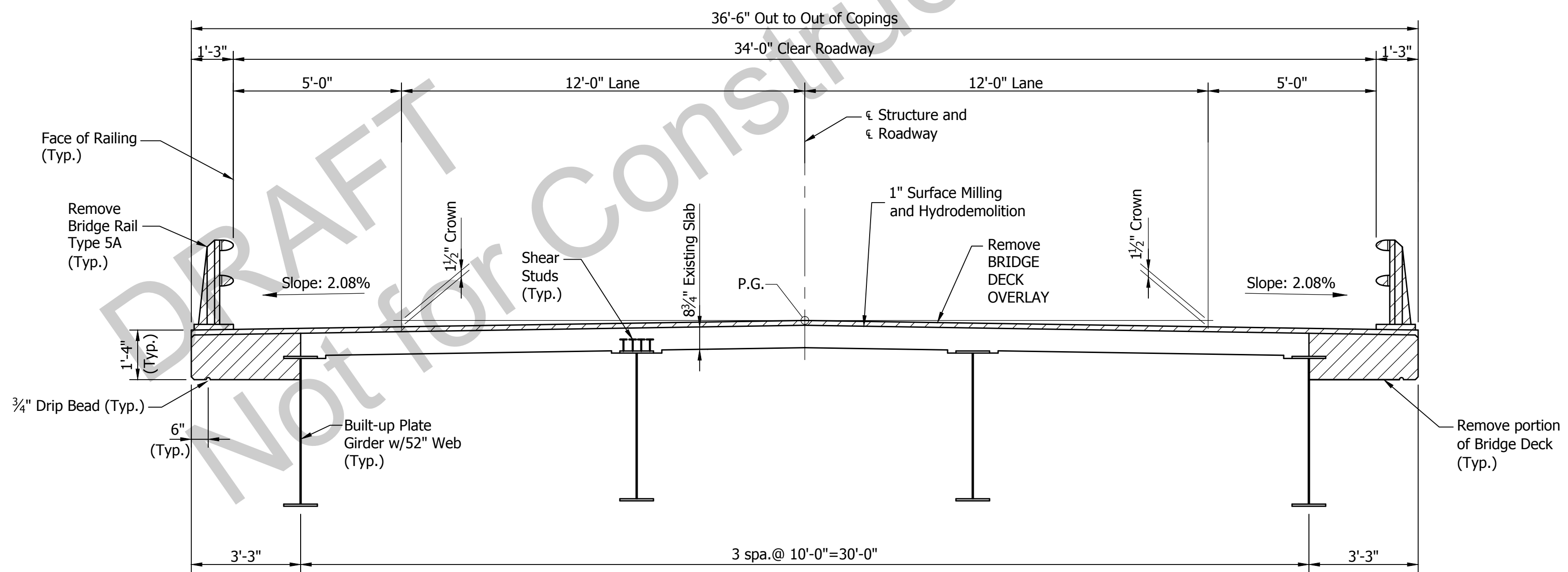


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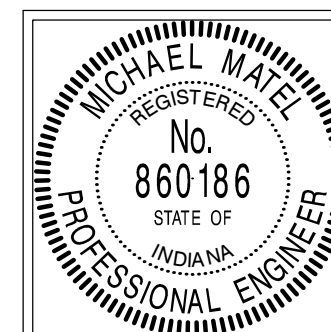
Note: Hatched Areas indicate Portions to be Removed.

**EXISTING SECTION "A-A"**  
**SPANS "A" AND "S"**  
**SOUTHBOUND STRUCTURE**  
 Scale: 3/8"=1'-0"



Note: Bridge Deck will be removed in Spans "B" and "R" and portions of Spans "C" and "Q".

**EXISTING SECTION "A-A"**  
**SPANS "B" THRU "R"**  
**SOUTHBOUND STRUCTURE**  
 Scale: 3/8"=1'-0"



RECOMMENDED FOR APPROVAL: *Michael Matel* 10/31/16  
 DESIGN ENGINEER DATE  
 DESIGNED: D. SHEETZ DRAWN: D. SHEETZ  
 CHECKED: M. MATEL CHECKED: M. MATEL

INDIANA DEPARTMENT OF TRANSPORTATION  
**TYPICAL SECTIONS**

HORIZONTAL SCALE AS NOTED	BRIDGE FILE 041-82-4999JB
VERTICAL SCALE AS NOTED	DESIGNATION 0200635
SURVEY BOOK	SHEET 9 OF 33
CONTRACT B-33539	PROJECT 0200635

5605  
BFS NO.

**GENERAL NOTES**

Plans for the existing structure are on file with the Indiana Department of Transportation as Bridge File: 41-82-4999 and 41-82-4999A and are available upon request.

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

Epoxy coated reinforcing bars shall be required in various portions of the structure as shown.

Reinforcing bars covering shall be 2-1/2" in top of approach slabs and 2" in all other areas unless noted.

Reinforcing bars covering shall be 2-1/2" in top and 1" in bottom of floor slabs and 2" in all other areas unless noted.

Reinforcing bars shall be A.S.T.M. A615, Grade 60.

Concrete shall be Class C in end bents, wingwalls, floor slab and barrier railings.

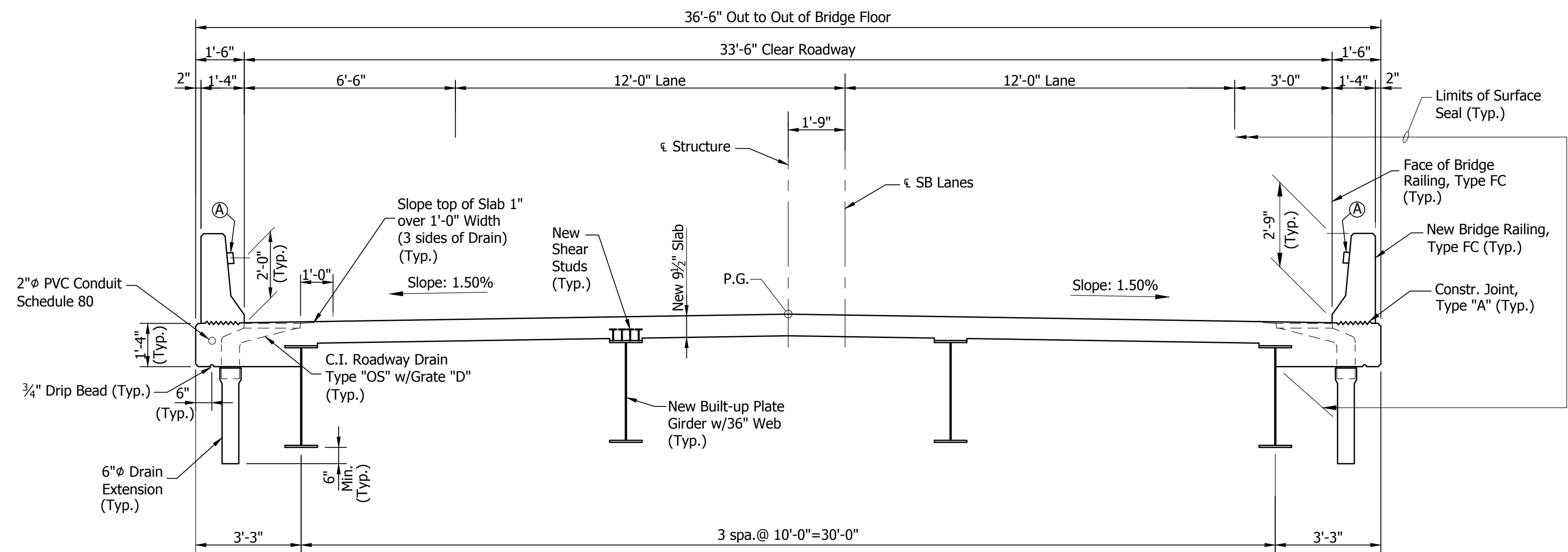
Concrete shall be Class A in all other portions of the project not noted above.

Chamfer exposed corners of concrete 1" unless noted.

Seal all joints and cracks in the approach pavement with a hot poured joint sealer before placing the HMA wedges.

Surface seal shall be required on various areas of the structure as shown. Estimated Quantity = 33135 Sft. (Does not include Concrete Barrier Rail Transitions)

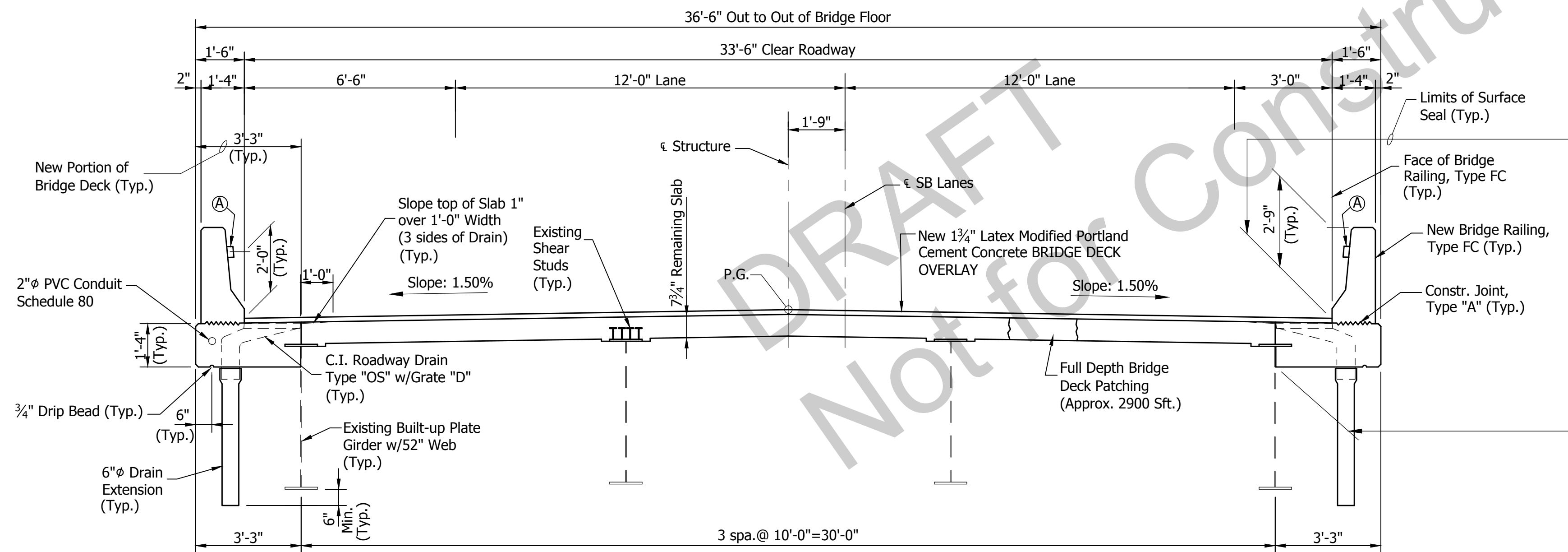
NOTE: SEE ROAD PLANS FOR REMOVAL OF EXISTING GUARDRAIL, PROPOSED GUARDRAIL, PAVEMENT MARKINGS, EROSION CONTROL MEASURES AND MAINTENANCE OF TRAFFIC DETAILS.



**PROPOSED SECTION "A-A"**  
**SPANS "A", "B", "R" AND "S"**  
**PORTIONS OF SPANS "C" AND "Q"**  
**SOUTHBOUND STRUCTURE**

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

(A) Barrier Delineators @ 40'-0" Max. Spacing



**PROPOSED SECTION "A-A"**  
**PORTIONS OF SPANS "C" AND "Q"**  
**SPANS "D" THRU "P"**  
**SOUTHBOUND STRUCTURE**

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

**SEISMIC DATA**

AASHTO LRFD Bridge Design Specifications, 6th Edition, 2012.  
 Seismic Zone 2  
 Sd1 = 0.257  
 Site Class D

**DESIGN DATA**

**MATERIAL DESIGN STRENGTHS:**

Class "A" Concrete F'c = 3,500 p.s.i.  
 Class "C" Concrete F'c = 4,000 p.s.i.  
 Reinforcing Steel (Grade 60) Fy = 60,000 p.s.i.

**LIVE LOAD:**

HS20-44 loading with distribution in accordance with 2002 A.A.S.H.T.O. Specifications. Load Factor=2.17.

**DEAD LOAD:**

Actual plus 35 pounds per square foot (composite) for future wearing surface and 15 pounds per square foot (non composite) for permanent metal deck forms. Slab designed with a 1/2" wearing surface.

**FLOOR SLAB:**

New portions of slab has been designed with the AASHTO Strip Method using a structural depth of 9" and a 1/2" wearing surface.

**CONSTRUCTION LOADING**

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 finishing machine was assumed to be supported 6 inches outside the vertical coping form. The top overhang brackets were assumed to be located 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.

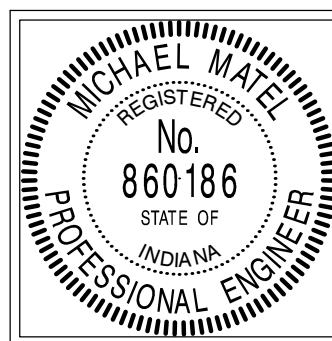
DECK FALSEWORK LOADS: Designed for 15 psf for permanent metal stay-in-place deck forms, removable deck forms, and 2 ft exterior walkway.

CONSTRUCTION LIVE LOAD: Designed for 20 psf extending 2 ft past the edge of coping and 75 plf vertical force applied at a distance of 6 inches outside the face of coping over a 30 ft length of the deck with the finishing machine.

FINISHING MACHINE LOAD: 4500 lbs. distributed over 10 feet along the coping.

WIND LOAD: Designed for 70 mph horizontal wind loading in accordance with LRFD 3.8.1.

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CHECKED:	M. MATEL	CHECKED: M. MATEL

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**TYPICAL SECTIONS**

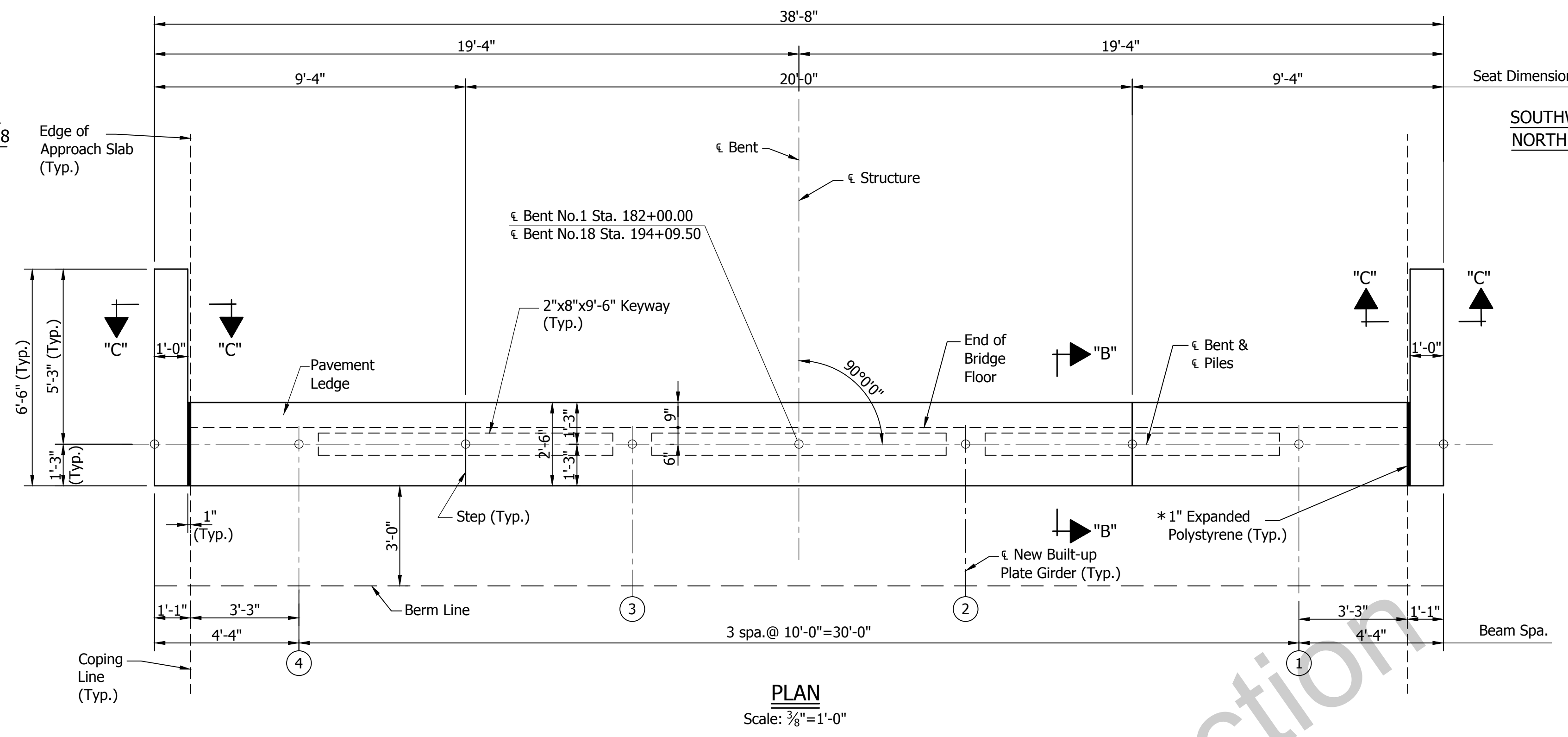
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VERTICAL SCALE	AS NOTED	DESIGNATION	0200635
SURVEY BOOK	10	SHEET	33
CONTRACT	B-33539	PROJECT	0200635

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SOUTHEAST WING-BENT NO.1  
NORTHWEST WING-BENT NO.18

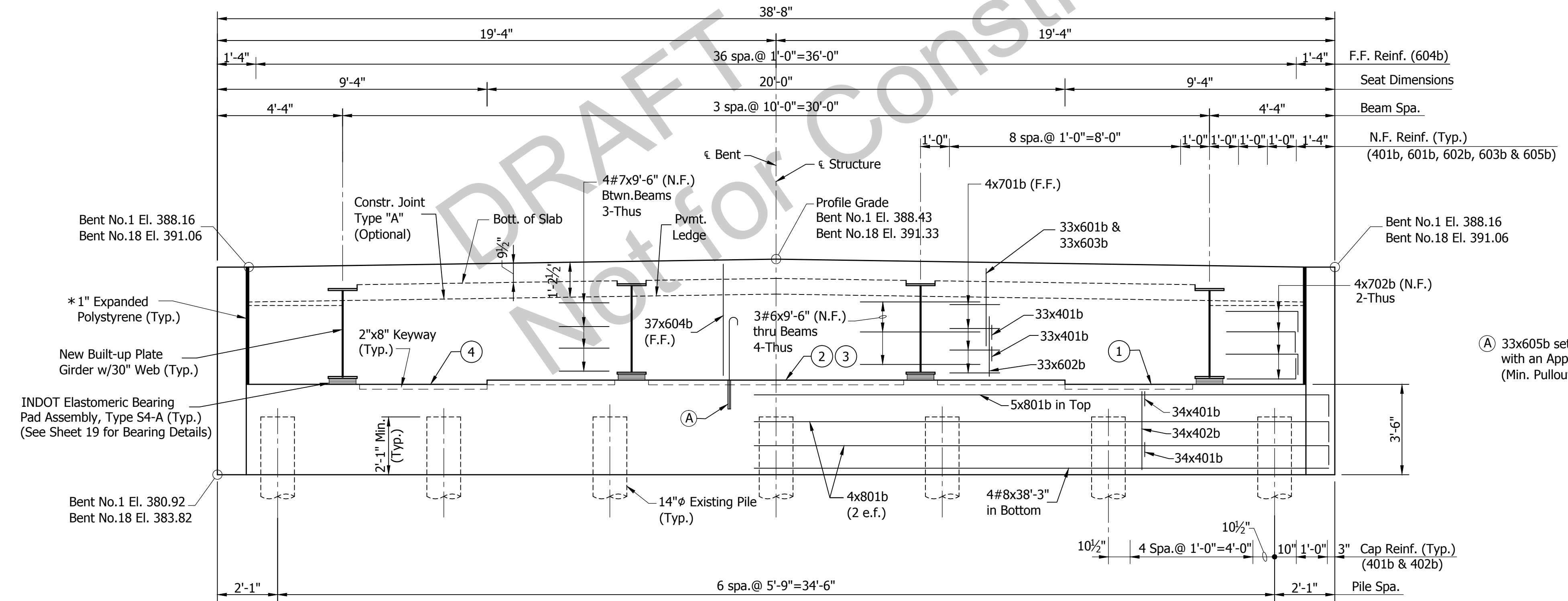
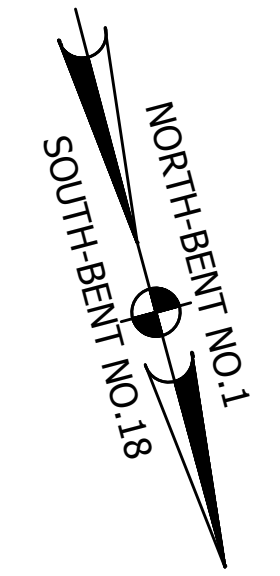
SOUTHWEST WING-BENT NO.1  
NORTHEAST WING-BENT NO.18



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

\* See Special Provisions

SEAT ELEVATIONS				
Beam No.	④	③	②	①
Bent No.1 SB	384.42	384.57	384.57	384.42
Bent No.18 SB	387.32	387.47	387.47	387.32



**SECTION ALONG ε BENT**  
Scale: 3/8" = 1'-0"

(A) 33x605b set in 1'-0" Field Drilled Holes with an Approved Anchor System (Min. Pullout = 26500 Lbs.)

**NOTES**  
See Sheet 12 for Section "B-B".  
See Sheet 13 for Section "C-C", Wingwall Details, Bar Bending Details and Bill of Materials.

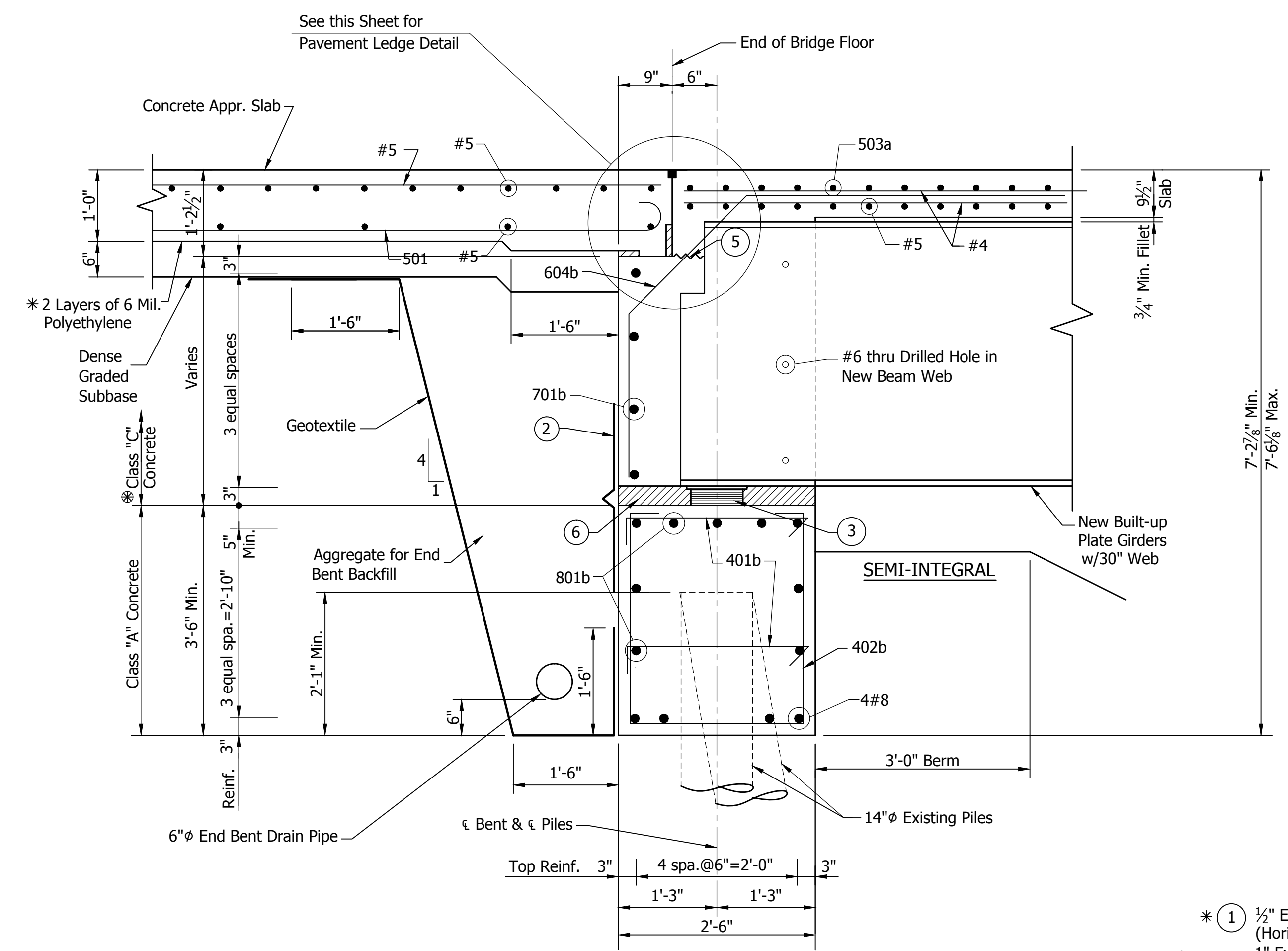
	RECOMMENDED FOR APPROVAL: <i>Michael M. Matel</i> 10/31/16 DESIGN ENGINEER DATE
	DESIGNED: C. OBRIEN DRAWN: D. SHEETZ
	CHECKED: B. WRIGHT CHECKED: M. MATEL

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DEPARTMENT OF TRANSPORTATION  
**BENT NO.1 OR NO.18 DETAILS**  
SOUTHBOUND STRUCTURE

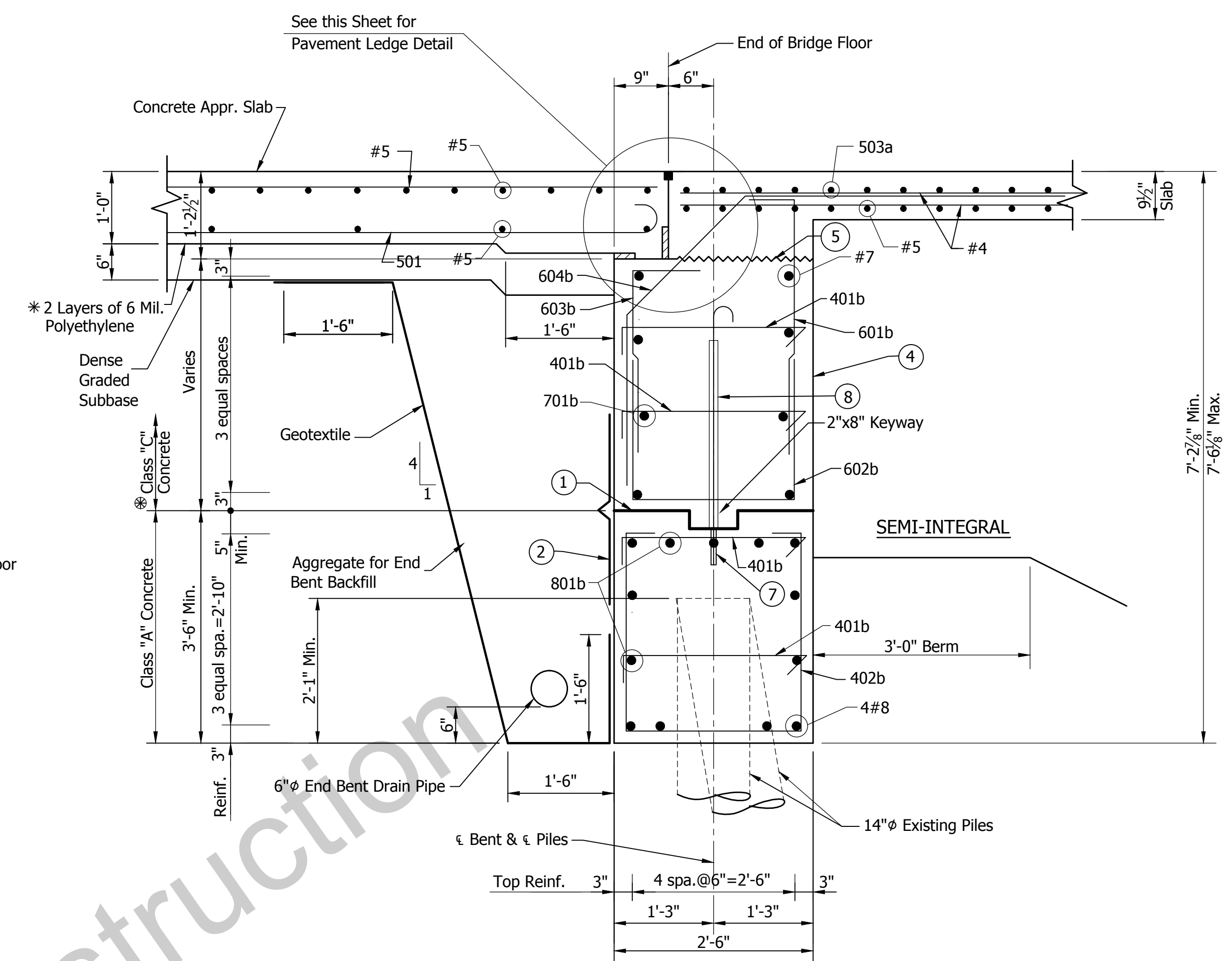
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VERTICAL SCALE AS NOTED	DESIGNATION 0200635
SURVEY BOOK	SHEET 11 OF 33
CONTRACT B-33539	PROJECT 0200635

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BFS NO.

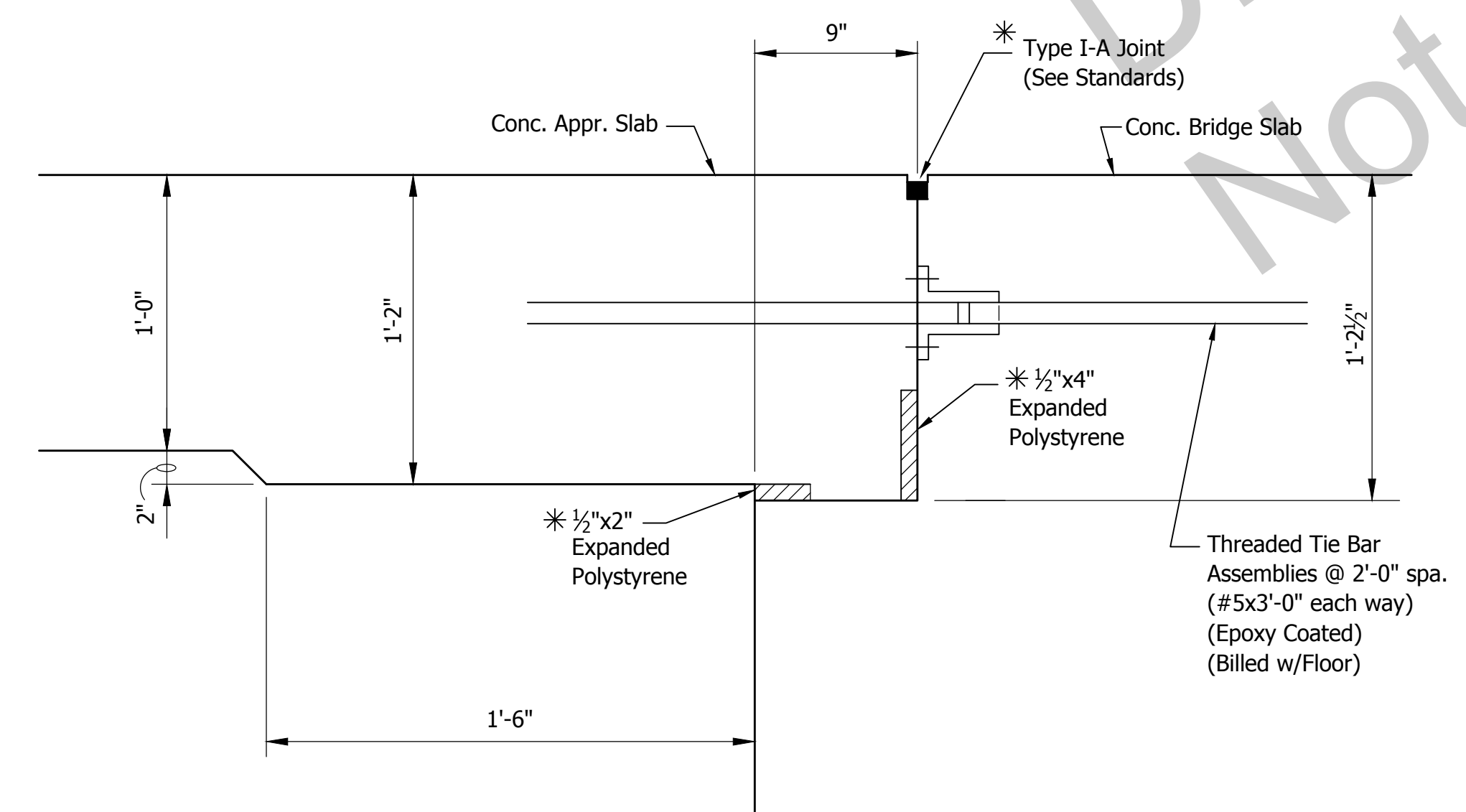
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**SECTION "B-B"**  
**AT BEAMS**  
Scale: 3/4"=1'-0"

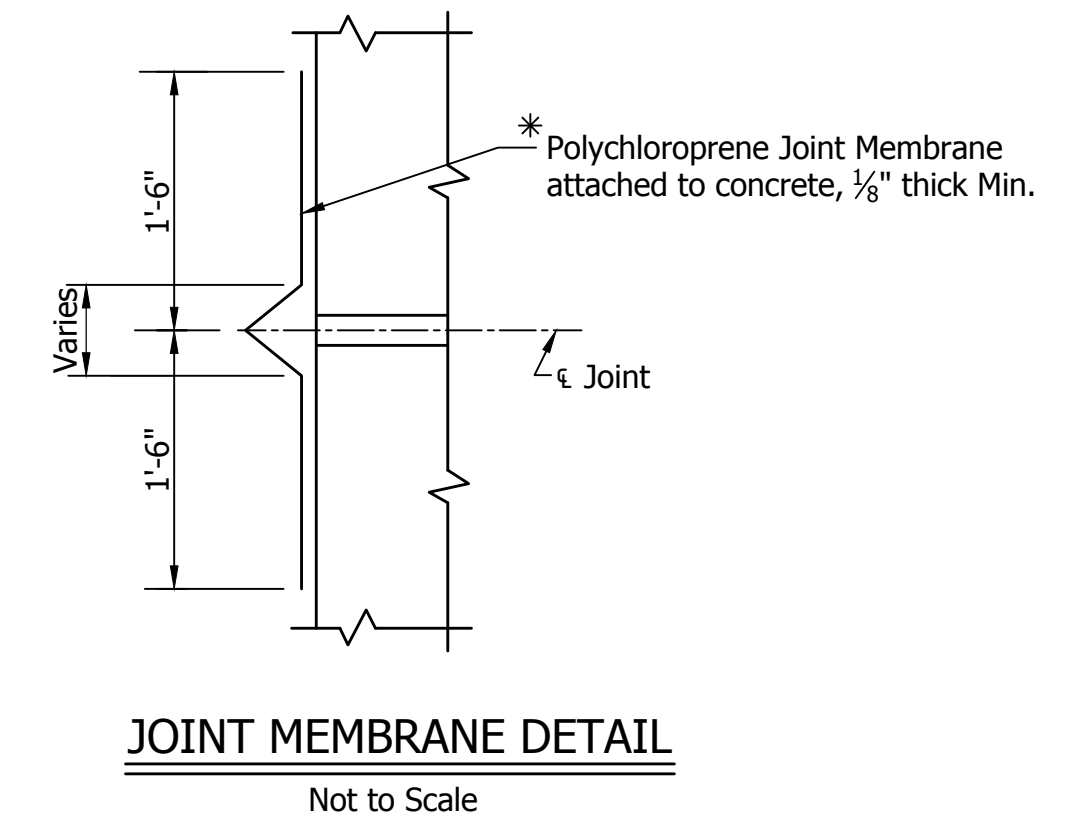


**SECTION "B-B"**  
**BETWEEN BEAMS**  
Scale: 3/4"=1'-0"



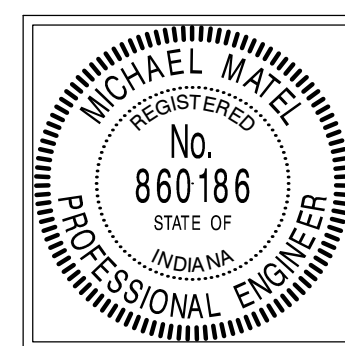
**PAVEMENT LEDGE DETAIL**  
Not to Scale

- \* 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 S4-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 605b 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



**JOINT MEMBRANE DETAIL**  
Not to Scale

NOTE  
See Sheet 13 for Bar Bending Details and Bill of Materials.



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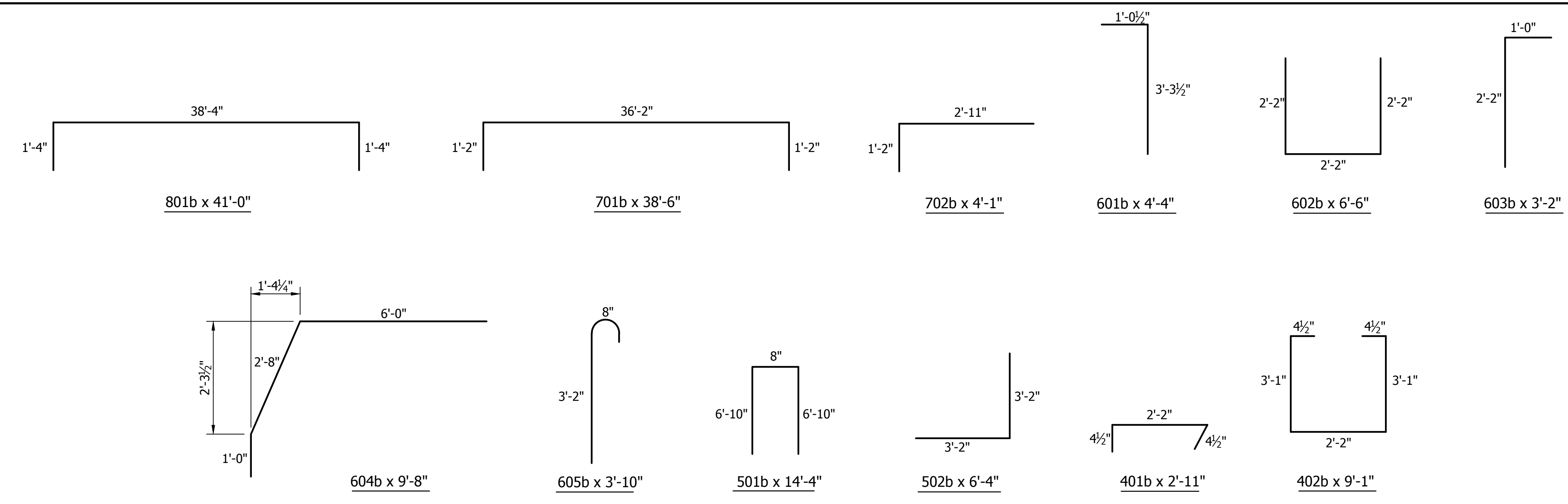
INDIANA  
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**BENT NO.1 OR NO.18 DETAILS**  
**SOUTHBOUND STRUCTURE**

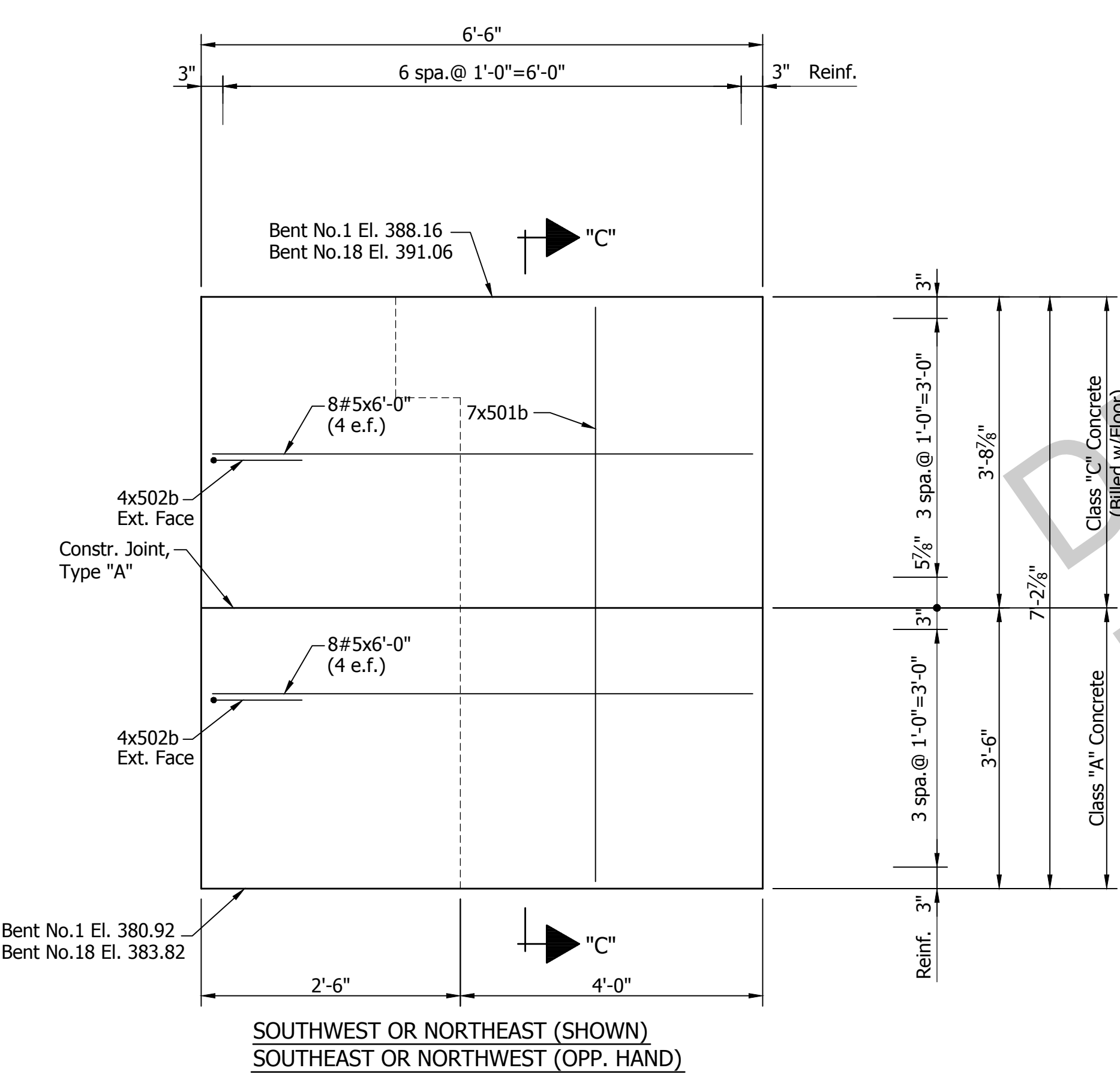
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VERTICAL SCALE	AS NOTED	DESIGNATION	0200635
SURVEY BOOK	12	SHEET	33
CONTRACT	B-33539	PROJECT	0200635

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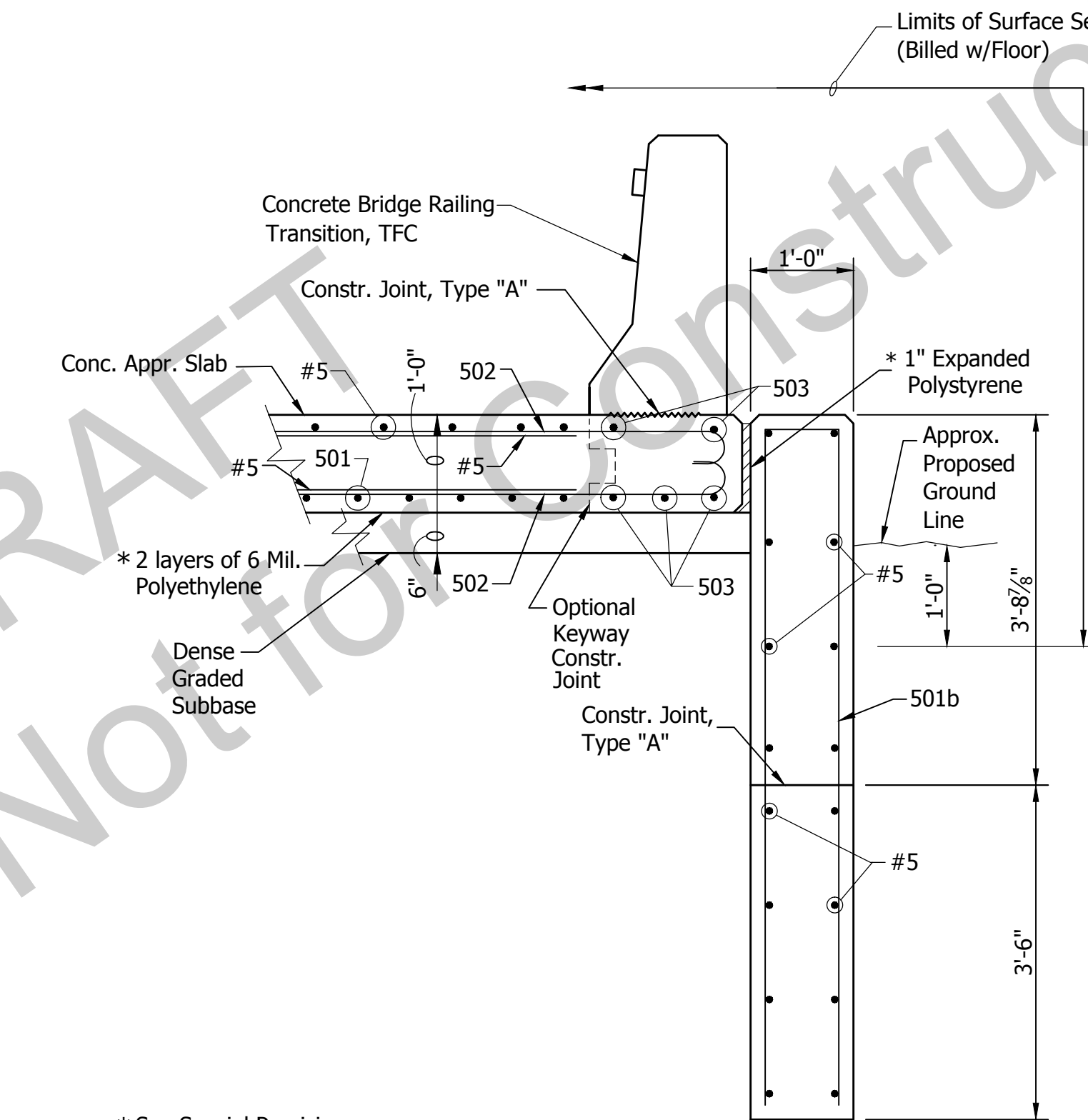
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**BAR BENDING DETAILS**  
Not to Scale



**TYPICAL WINGWALL DETAIL**  
Scale: 3/4" = 1'-0"



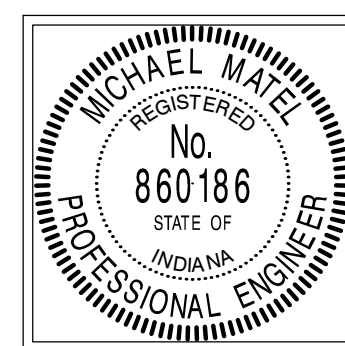
**SECTION "C-C"**  
Scale: 3/4" = 1'-0"

**BILL OF MATERIALS**  
**BENT NO.1**  
**(BENT NO.18 SAME)**  
**SOUTHBOUND STRUCTURE**

REINFORCING BARS			
Mark or Size	No. of Bars	Length (Ft.)	Weight (Lbs.)
801b	9	41'-0"	
#8	4	38'-3"	
Total #8 (Epoxy Coated)			1394
701b	4	38'-6"	
702b	8	4'-1"	
#7	12	9'-6"	
Total #7 (Epoxy Coated)			615
601b	33	4'-4"	
602b	33	6'-6"	
603b	33	3'-2"	
604b	37	9'-8"	
605b	33	3'-10"	
#6	12	9'-6"	
Total #6 (Epoxy Coated)			1592
501b	14	14'-4"	
502b	16	6'-4"	
#5	32	6'-0"	
Total #5 (Epoxy Coated)			515
401b	134	2'-11"	
402b	34	9'-1"	
Total #4 (Epoxy Coated)			467
Total Steel (Epoxy Coated)			4583
CONCRETE			
Class "A" in Substructure			
Cap			12.2 Cys.
Wingwalls			1.7 Cys.
Total Class "A" Concrete			13.9 Cys.
MISCELLANEOUS			
6" End Bent Drain Pipe			56 Lft.
Aggregate for End Bent Backfill			20 Cys.
Geotextile			44 Sys.
Field Drilled Holes in Concrete			33 Each

⊕ A.S.T.M. A615, Grade 60  
⊗ Includes 90° Elbow

Note: See Special Provisions for Elastomeric Bearing Assembly.



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**BENT NO.1 OR NO.18 DETAILS**  
**SOUTHBOUND STRUCTURE**

HORIZONTAL SCALE	BRIDGE FILE
AS NOTED	041-82-4999JB
VERTICAL SCALE	DESIGNATION
AS NOTED	0200635
SURVEY BOOK	SHEET
	13 OF 33
CONTRACT	PROJECT
B-33539	0200635

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**BILL OF MATERIALS**  
**PEDESTALS**  
**PIER NO.3**  
**PIER NO.16 SAME**  
**SOUTHBOUND STRUCTURE**

**REINFORCING BARS**

Mark or Size	No. of Bars	Length (Ft.)	Weight (Lbs.)
401c	12	9'-11"	
402c	24	1'-10"	
403c	4	3'-7"	
404c	4	2'-4"	
Total Steel (Plain)			125

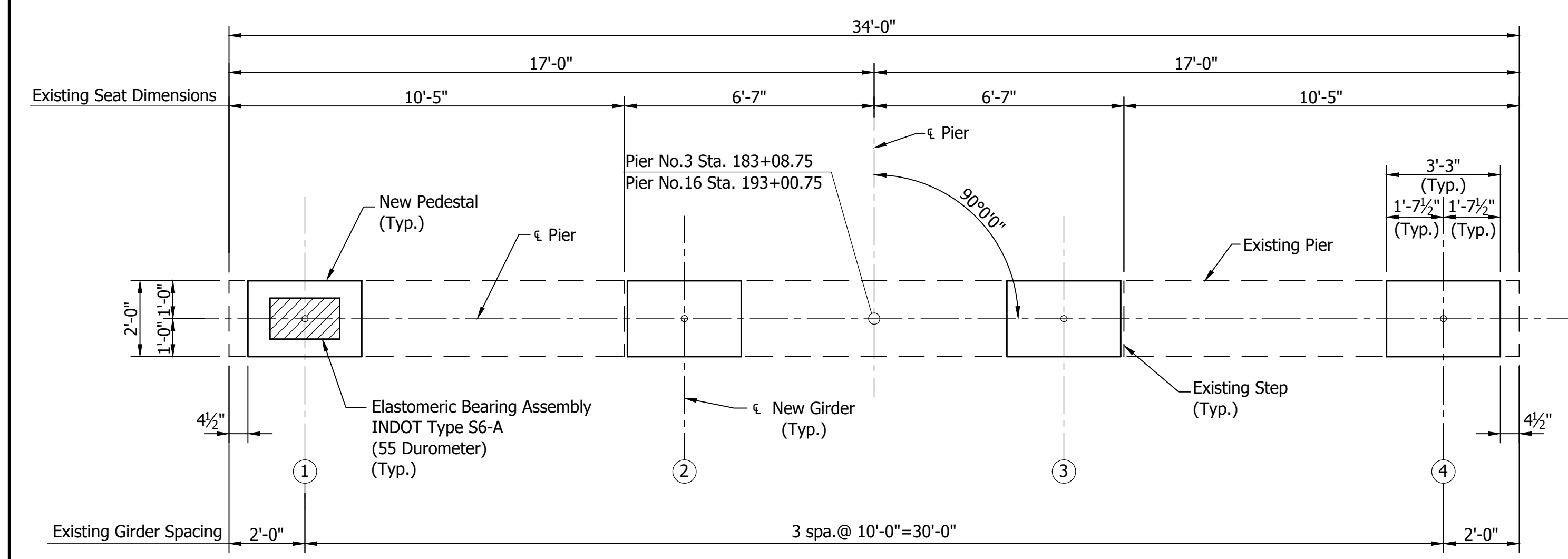
**CONCRETE**

Class "A" in Substructure	0.9 Cys.
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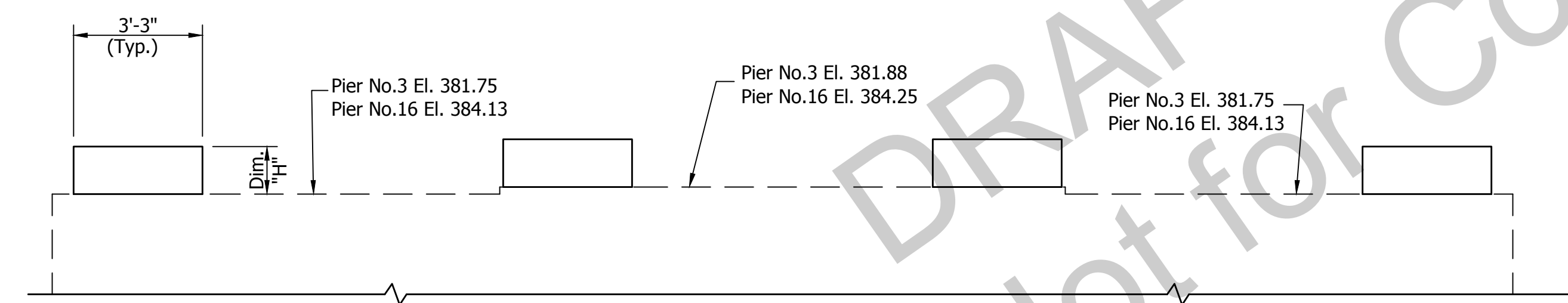
**MISCELLANEOUS**

Elastomeric Bearing Assembly	4 Each
Field Drilled Holes in Concrete	24 Each

⊕ A.S.T.M. A615, Grade 60



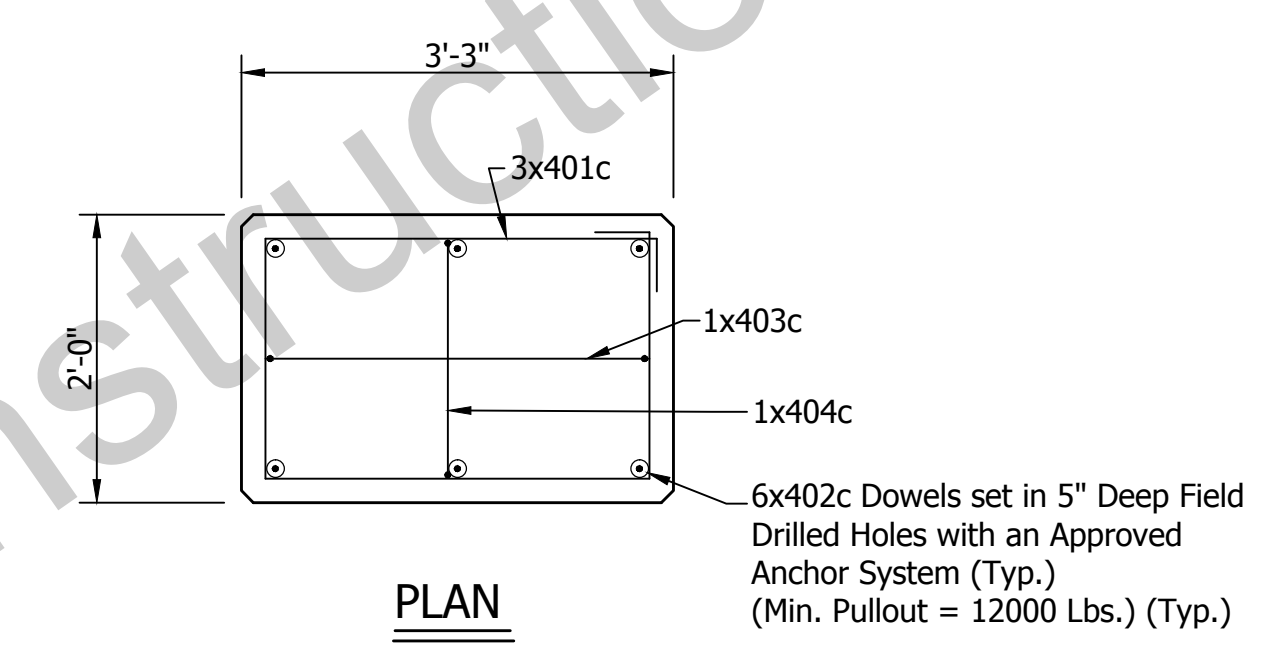
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 Scale: 3/8"=1'-0"



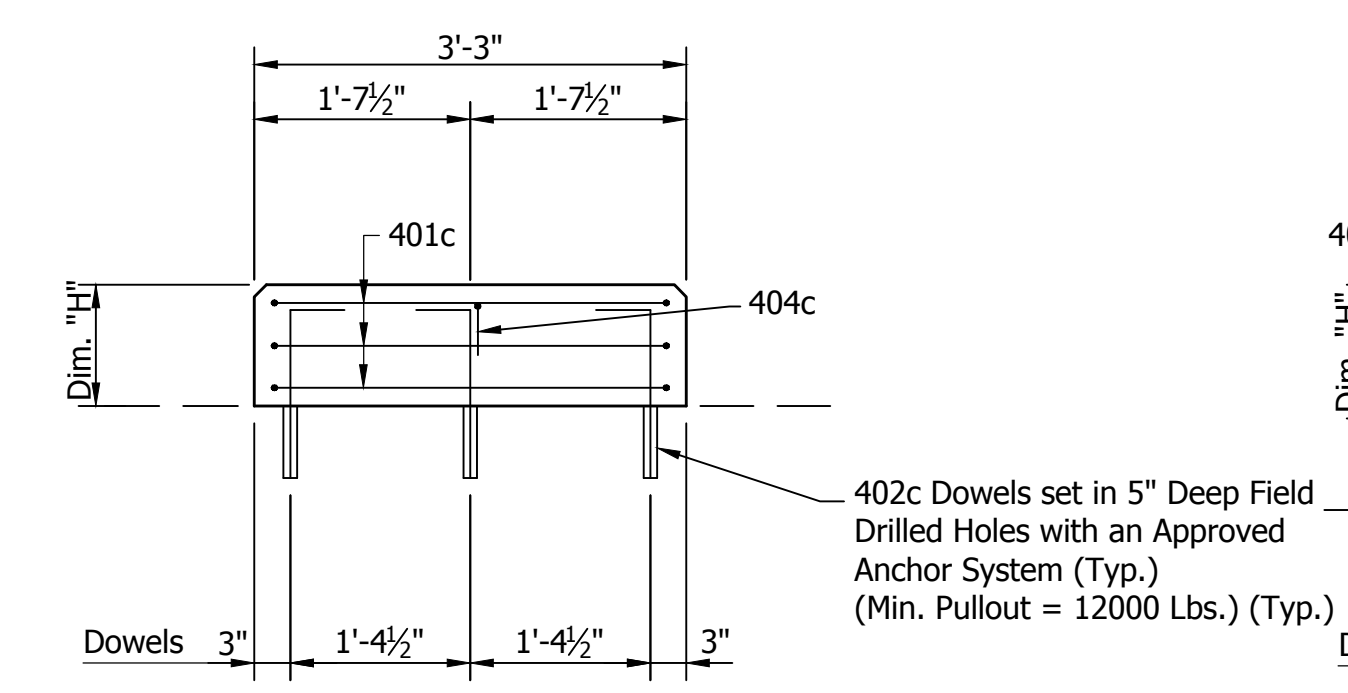
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**PEDESTAL ELEVATIONS AND DIMENSIONS**

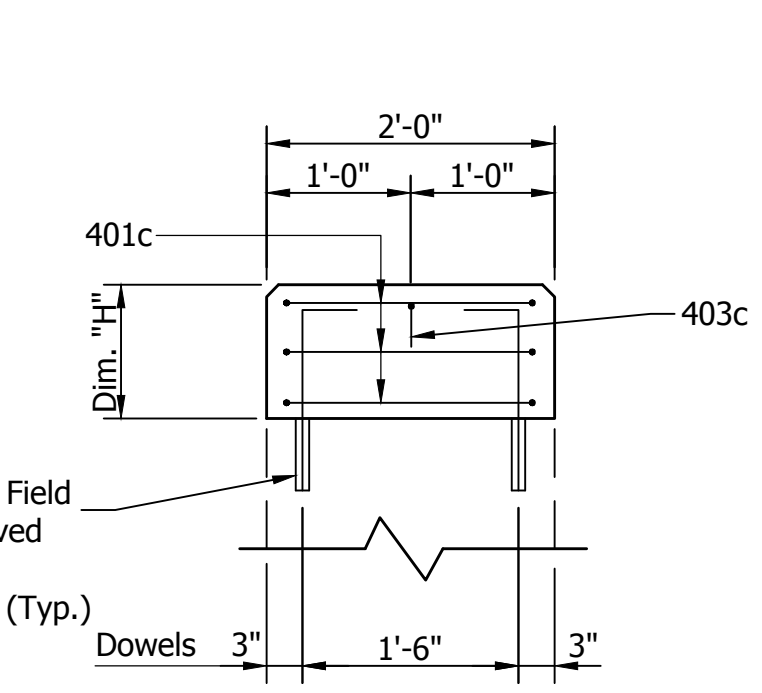
PIER NO.3 SB				
Girder No.	①	②	③	④
Elevation	382.67	382.82	382.82	382.67
Dimension "H"	11"	11 1/4"	11 1/4"	11"
PIER NO.16 SB				
Girder No.	①	②	③	④
Elevation	385.05	385.20	385.20	385.05
Dimension "H"	11"	11 3/8"	11 3/8"	11"



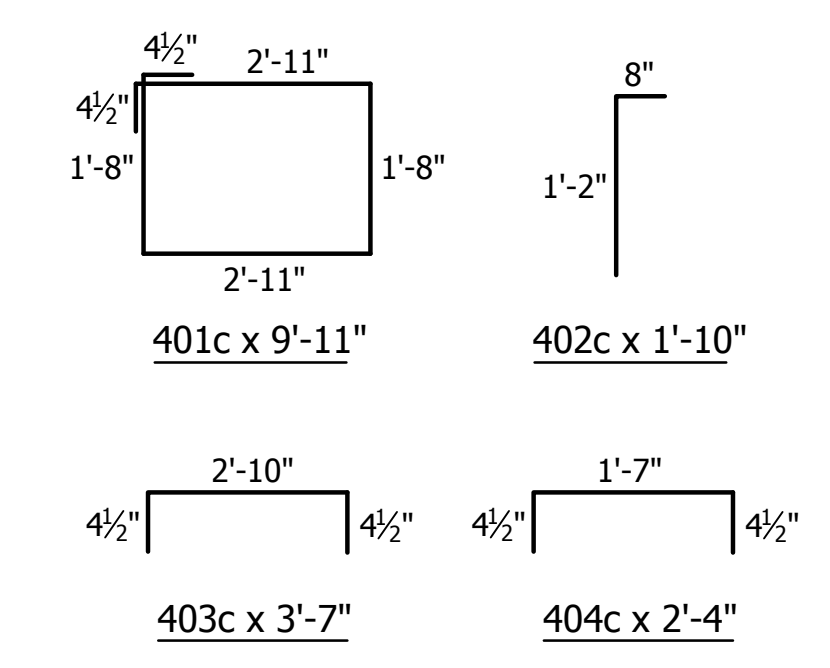
**PLAN**  
 Scale: 3/4"=1'-0"



**ELEVATION**  
 Scale: 3/4"=1'-0"

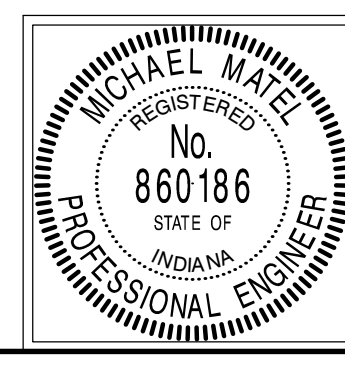


**SECTION**  
 Scale: 3/4"=1'-0"



**BAR BENDING DETAILS**  
 Not to Scale

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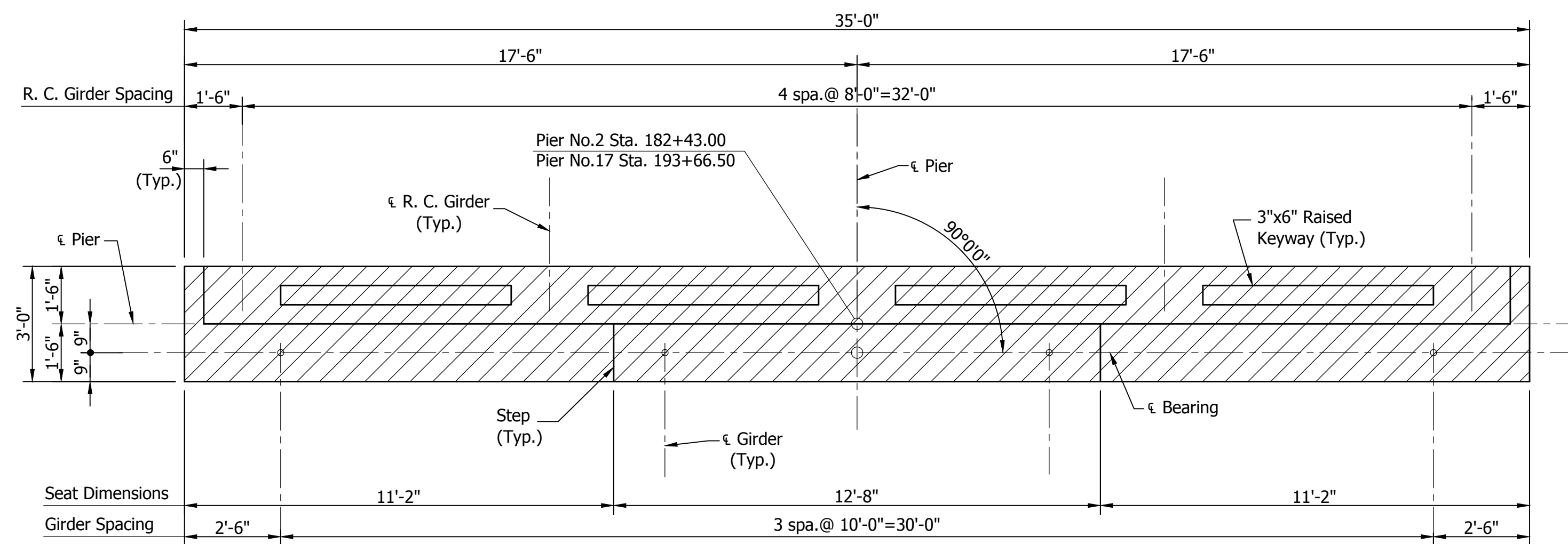
**INDIANA**  
**DEPARTMENT OF TRANSPORTATION**

**PEDESTAL DETAILS**  
**SOUTHBOUND STRUCTURE**

HORIZONTAL SCALE AS NOTED	BRIDGE FILE 041-82-4999JB
VERTICAL SCALE AS NOTED	DESIGNATION 0200635
SURVEY BOOK	SHEET 14 OF 33
CONTRACT B-33539	PROJECT 0200635

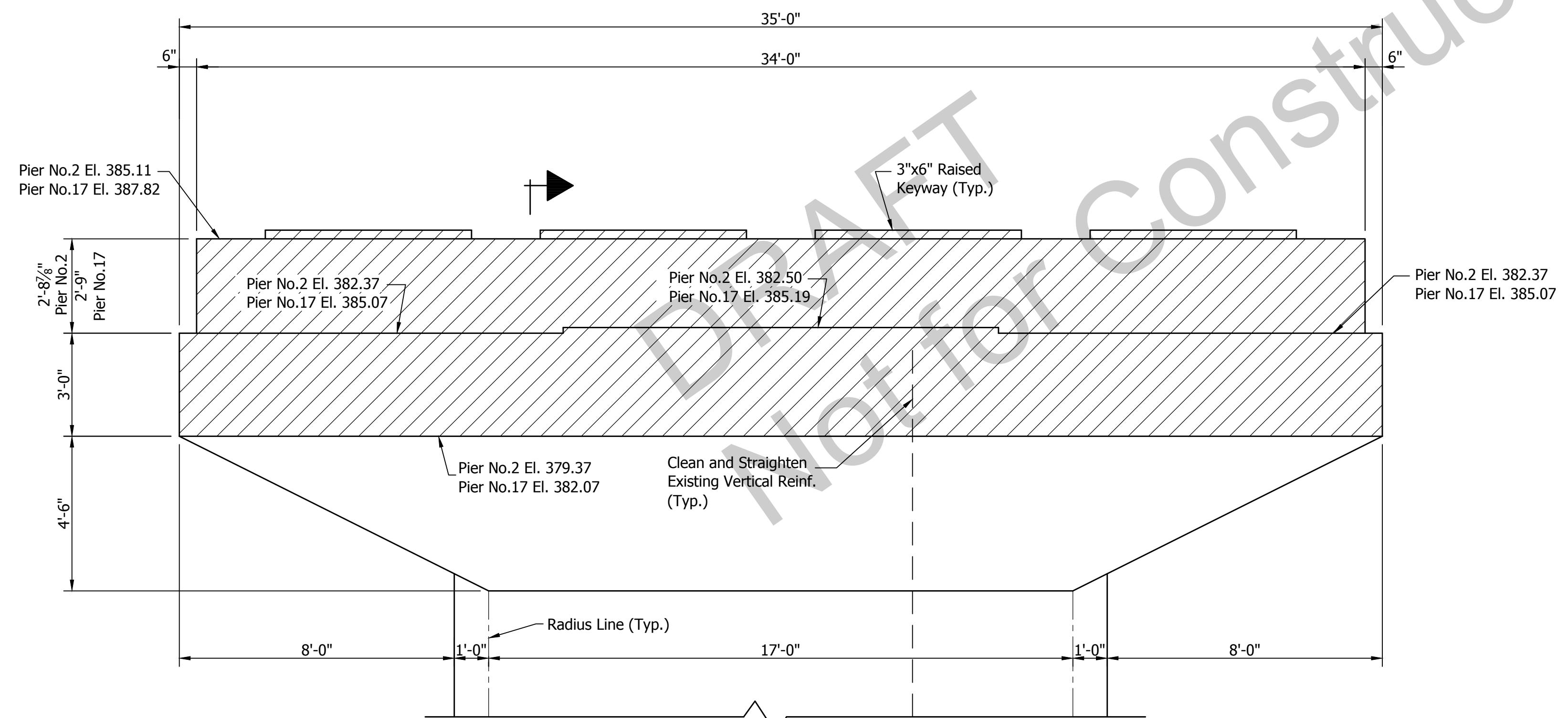
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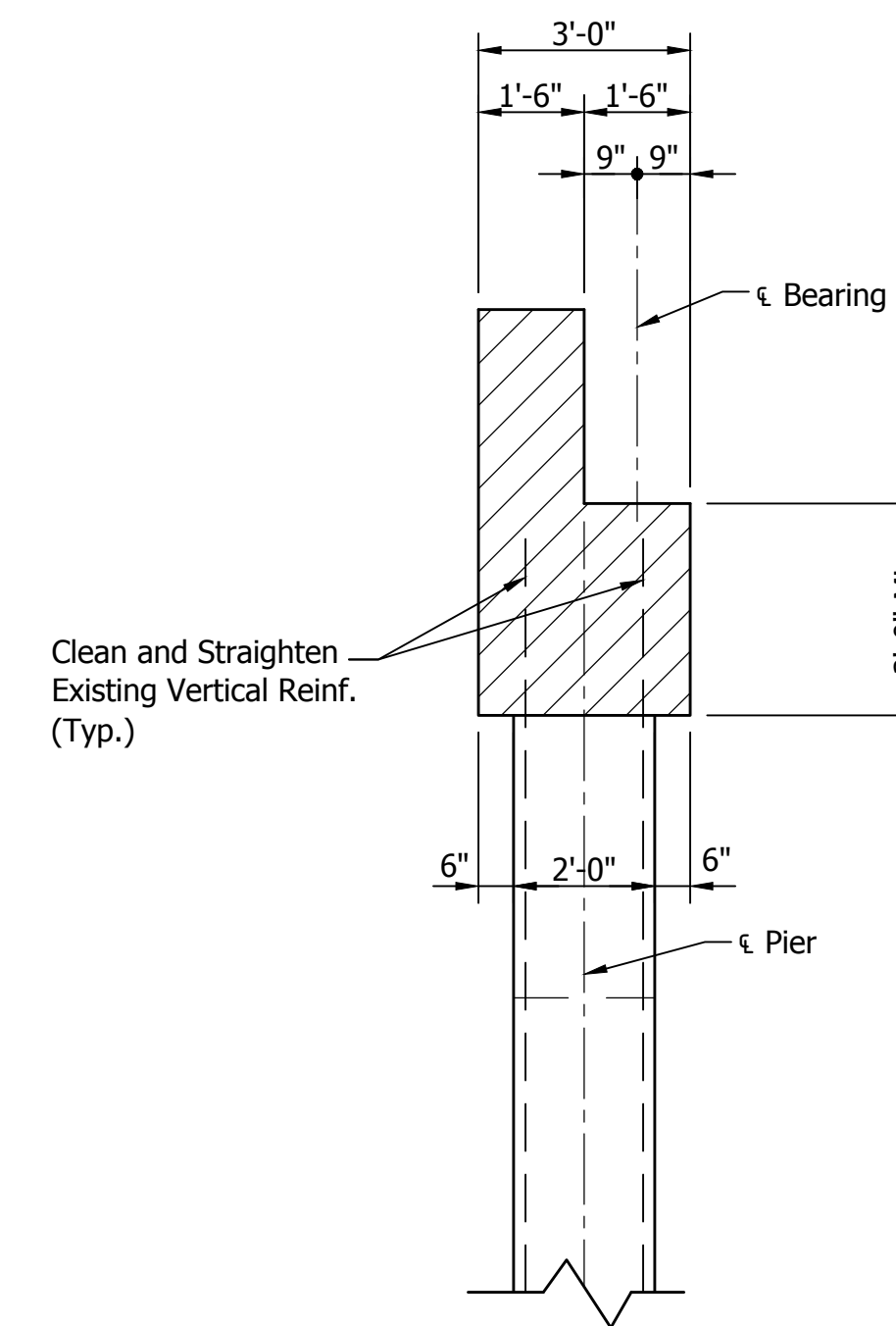
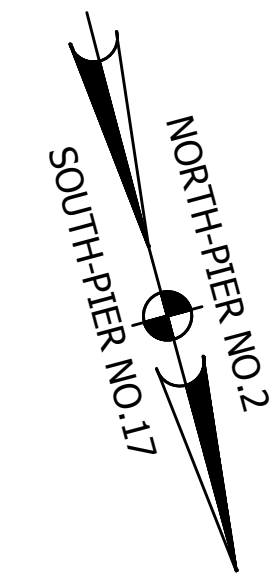
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Scale: 3/8" = 1'-0"

Note: Hatched Areas indicate portions to be Removed.



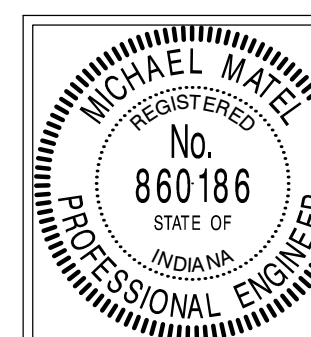
**ELEVATION**  
Scale: 3/8" = 1'-0"

See this Sheet



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

NOTE  
See Sheet 16 for Reconstruction Details.



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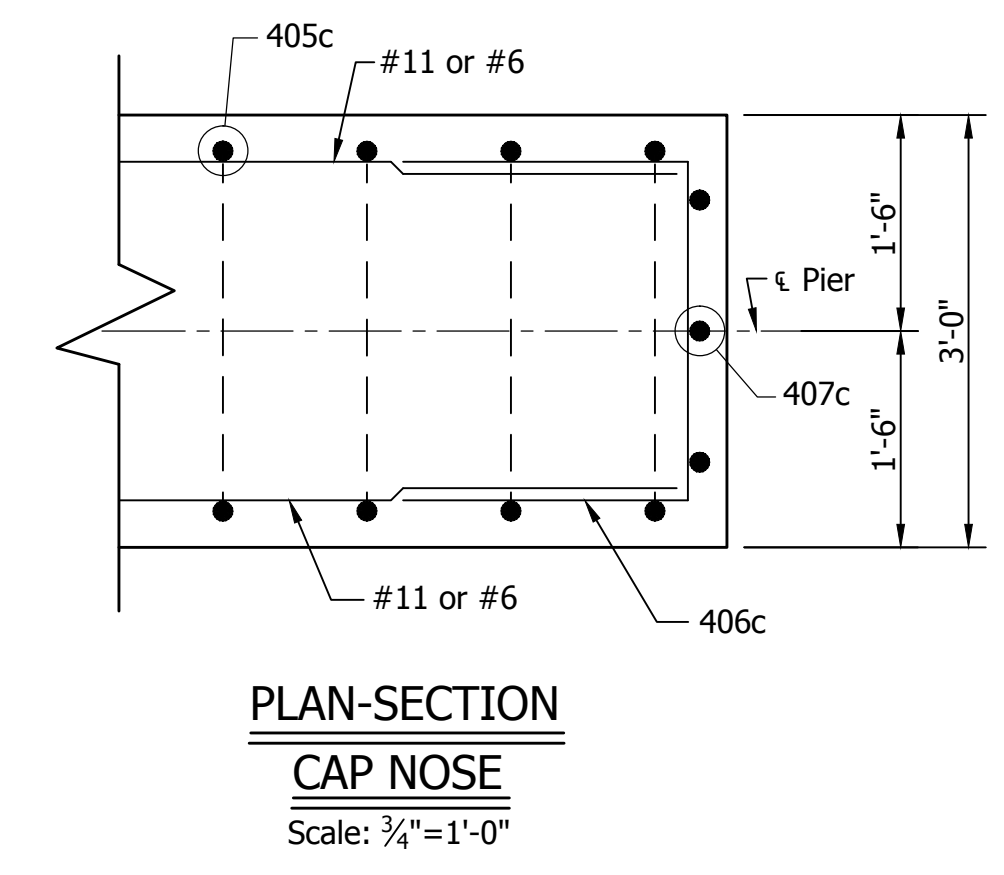
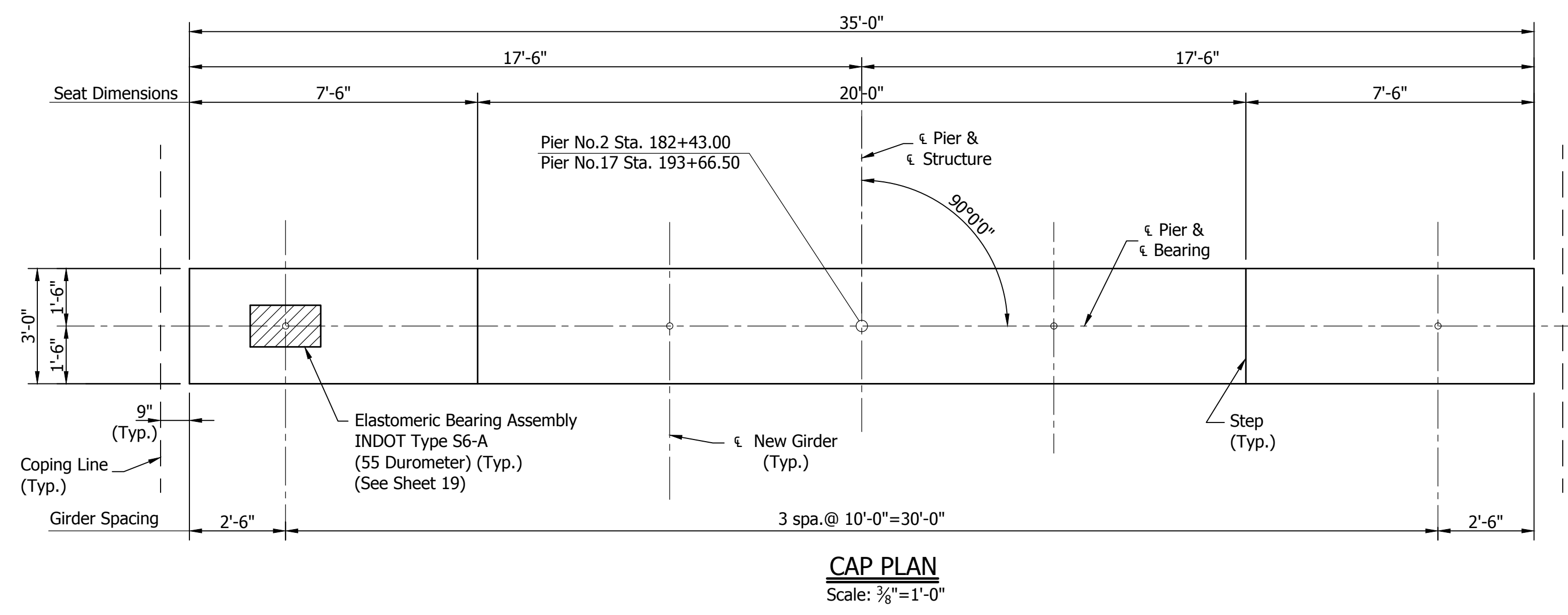
INDIANA  
DEPARTMENT OF TRANSPORTATION  
PIER NO. 2 OR NO. 17 DETAILS  
SOUTHBOUND STRUCTURE

HORIZONTAL SCALE AS NOTED	BRIDGE FILE 041-82-4999JB
VERTICAL SCALE AS NOTED	DESIGNATION 0200635
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CONTRACT B-33539	PROJECT 0200635

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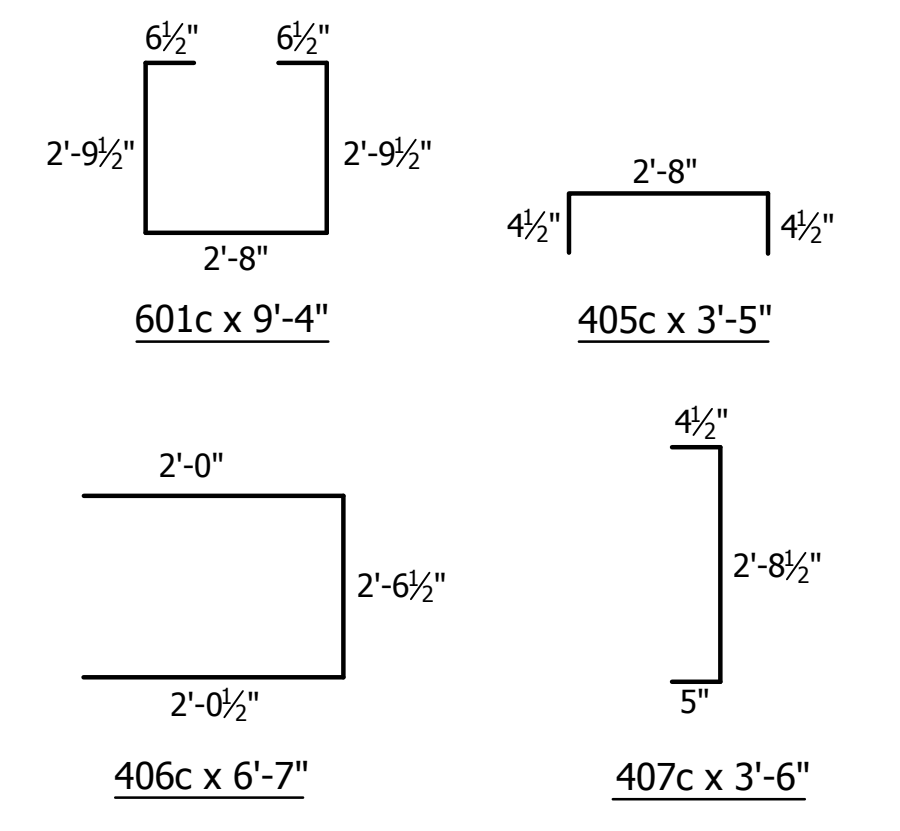
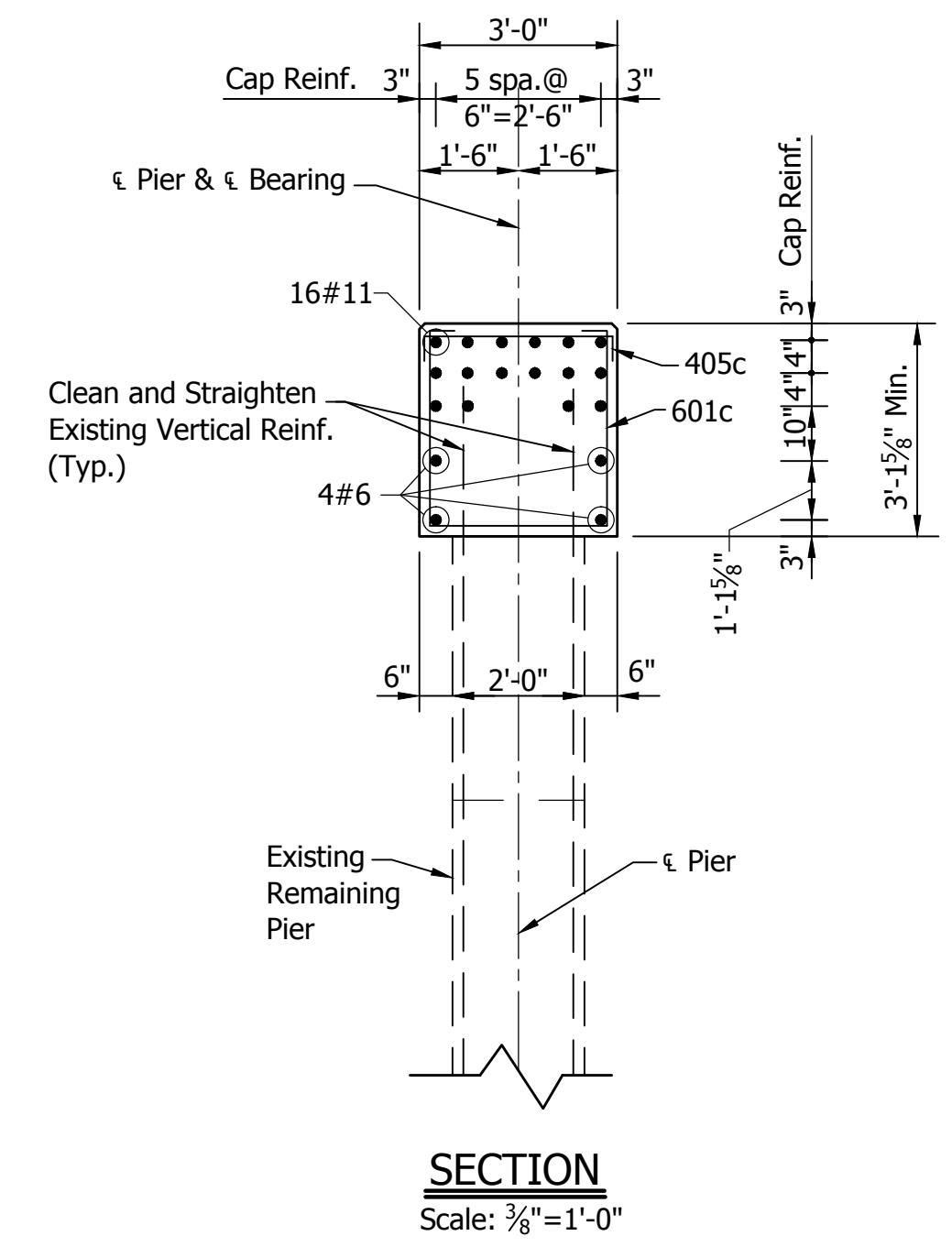
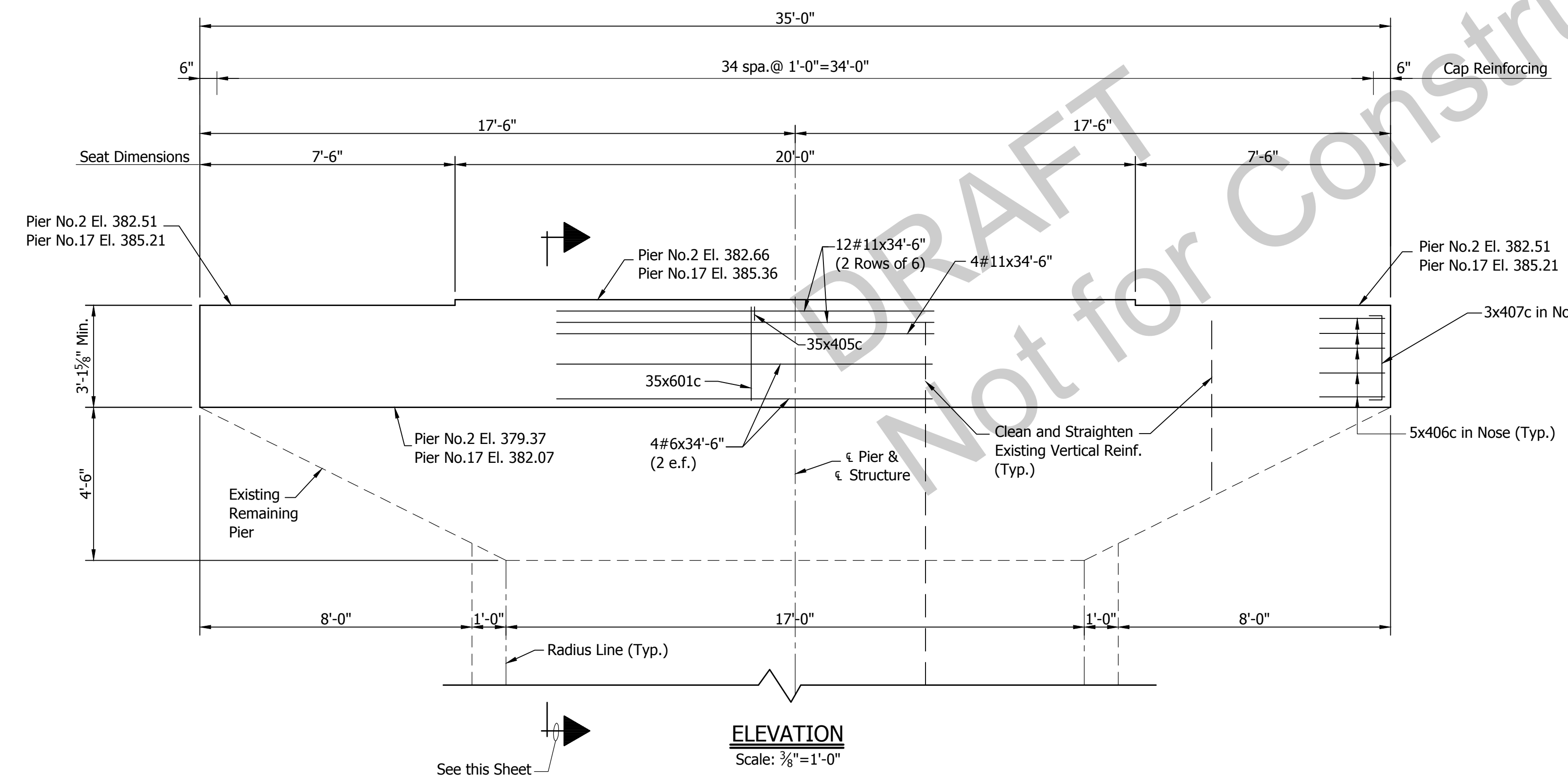
**BILL OF MATERIALS  
PIER NO.2  
PIER NO.17 SAME  
SOUTHBOUND STRUCTURE**

REINFORCING BARS			
Mark or Size	No. of Bars	Length (Ft.)	Weight (Lbs.)
#11	16	34'-6"	
Total #11 (Plain)			2933
601c	35	9'-4"	
#6	4	34'-6"	
Total #6 (Plain)			698
405c	35	3'-5"	
406c	10	6'-7"	
407c	6	3'-6"	
Total #4 (Plain)			138
Total Steel (Plain)			3769
CONCRETE			
Class "A" in Substructure			12.5 Cys.



⊕ A.S.T.M. A615, Grade 60

Note: See Special Provisions for Elastomeric Bearing Assembly.



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	CHECKED: B. WRIGHT CHECKED: M. MATEL

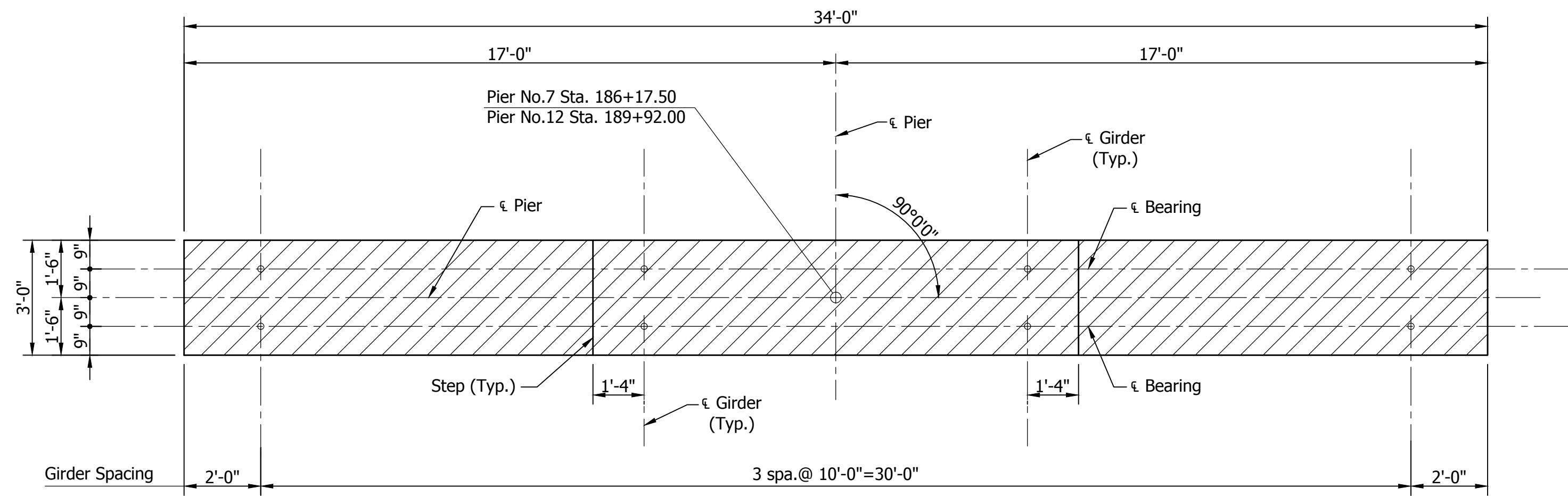
**INDIANA  
DEPARTMENT OF TRANSPORTATION**

**PIER NO.2 OR NO.17 DETAILS  
SOUTHBOUND STRUCTURE**

HORIZONTAL SCALE AS NOTED	BRIDGE FILE 041-82-4999JB
VERTICAL SCALE AS NOTED	DESIGNATION 0200635
SURVEY BOOK	SHEET 16 OF 33
CONTRACT B-33539	PROJECT 0200635

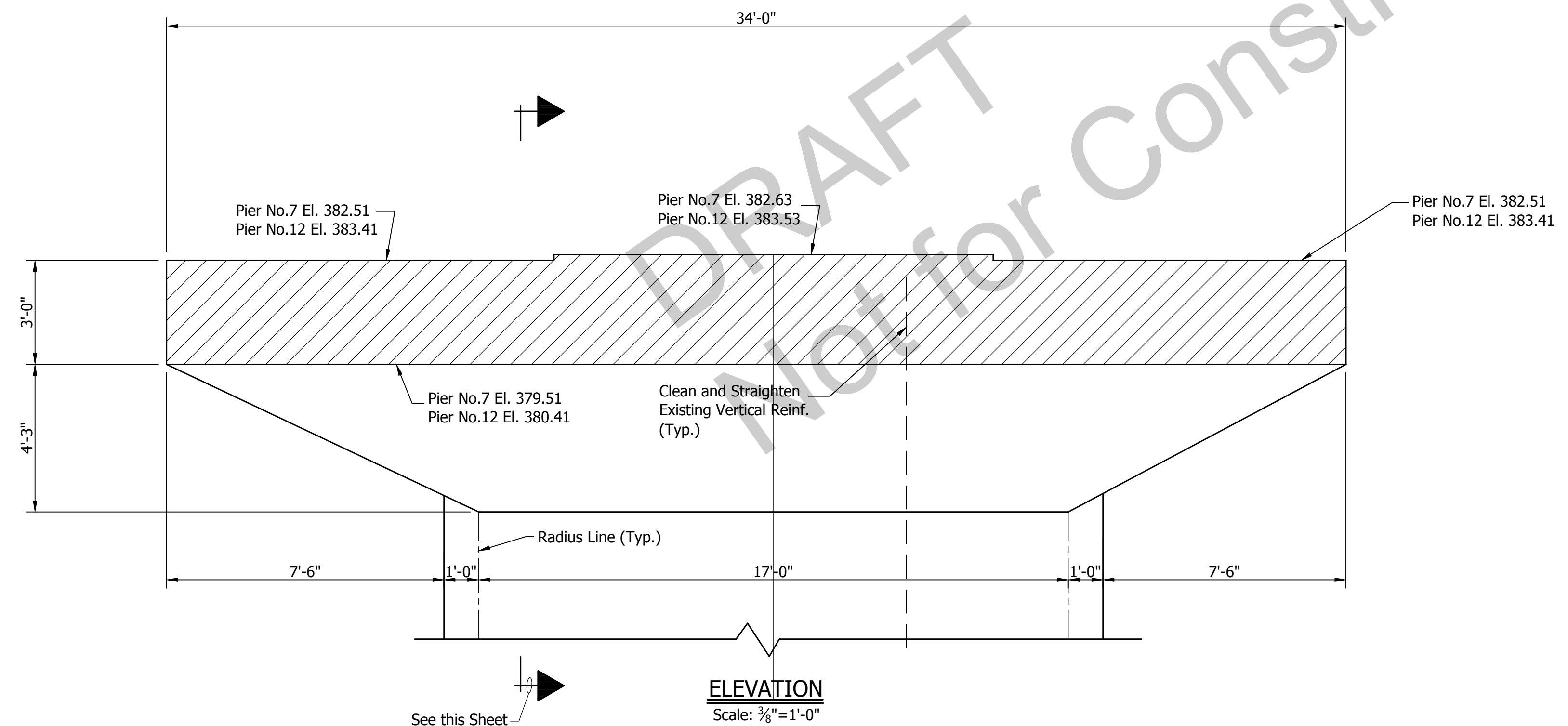
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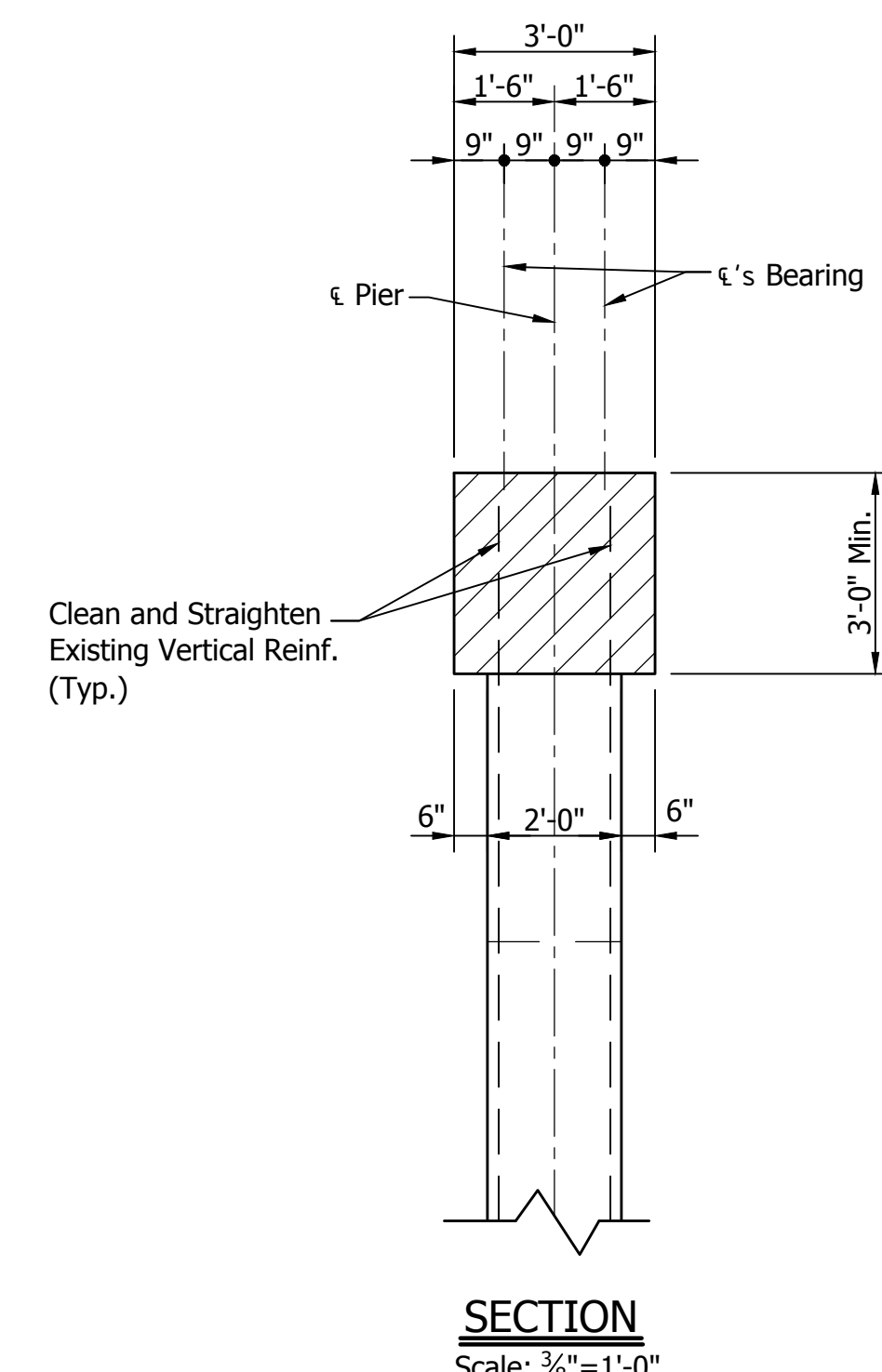


**PLAN**  
Scale: 3/8" = 1'-0"

Note: Hatched Areas indicate portions to be Removed.



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



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

NOTE  
See Sheet 18 for Reconstruction Details.

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DEPARTMENT OF TRANSPORTATION  
**PIER NO. 7 OR NO. 12 DETAILS**  
SOUTHBOUND STRUCTURE

HORIZONTAL SCALE AS NOTED	BRIDGE FILE 041-82-4999JB
VERTICAL SCALE AS NOTED	DESIGNATION 0200635
SURVEY BOOK	SHEET 17 OF 33
CONTRACT B-33539	PROJECT 0200635

BFS NO. 5605

**BILL OF MATERIALS**  
**PIER NO.7**  
**PIER NO.12 SAME**  
**SOUTHBOUND STRUCTURE**

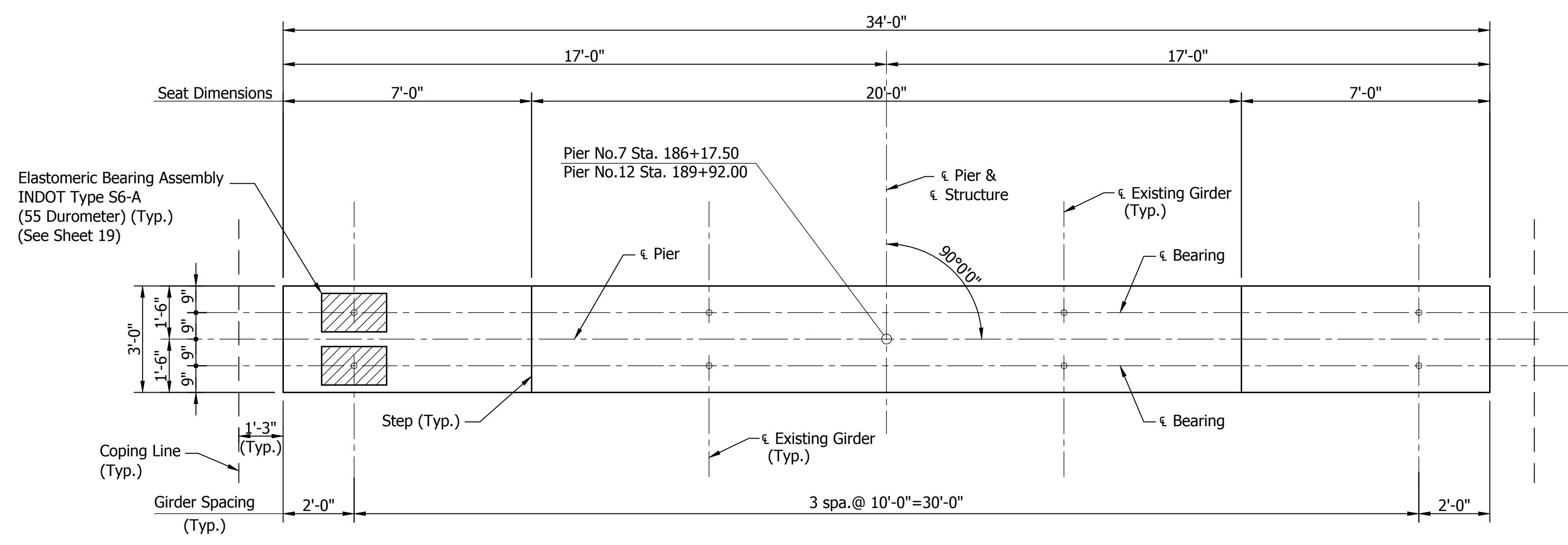
**REINFORCING BARS**

Mark or Size	No. of Bars	Length (Ft.)	Weight (Lbs.)
#11	22	33'-6"	
Total #11 (Epoxy Coated)			3916
602c	38	10'-10"	
#6	4	33'-6"	
Total #6 (Epoxy Coated)			820
405c	38	3'-5"	
406c	12	6'-7"	
408c	6	4'-3"	
Total #4 (Epoxy Coated)			157
Total Steel (Epoxy Coated)			4893

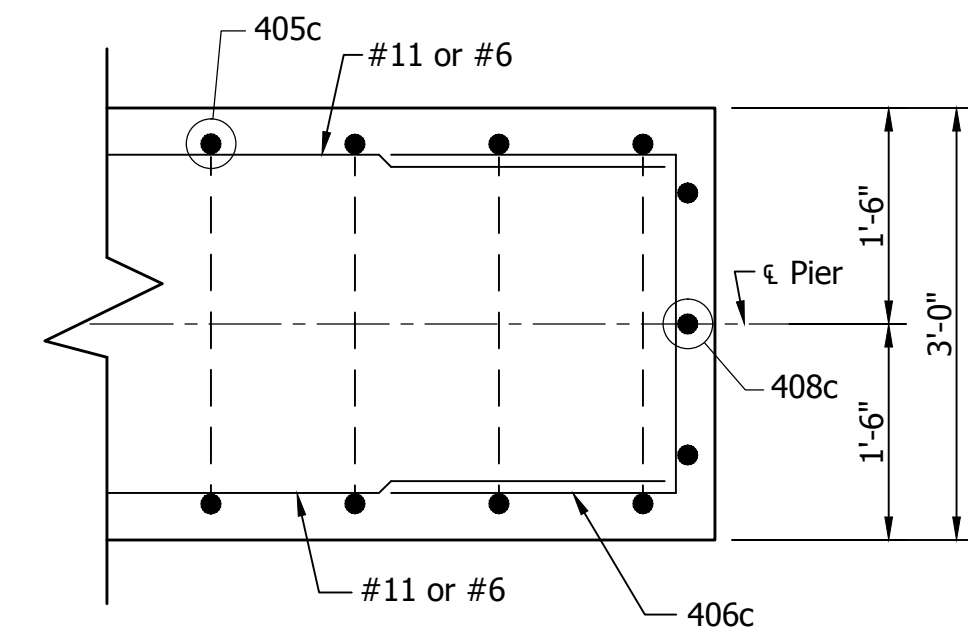
**CONCRETE**

Class "A" in Substructure	15.1 Cys.
Elastomeric Bearing Assembly	8 Each

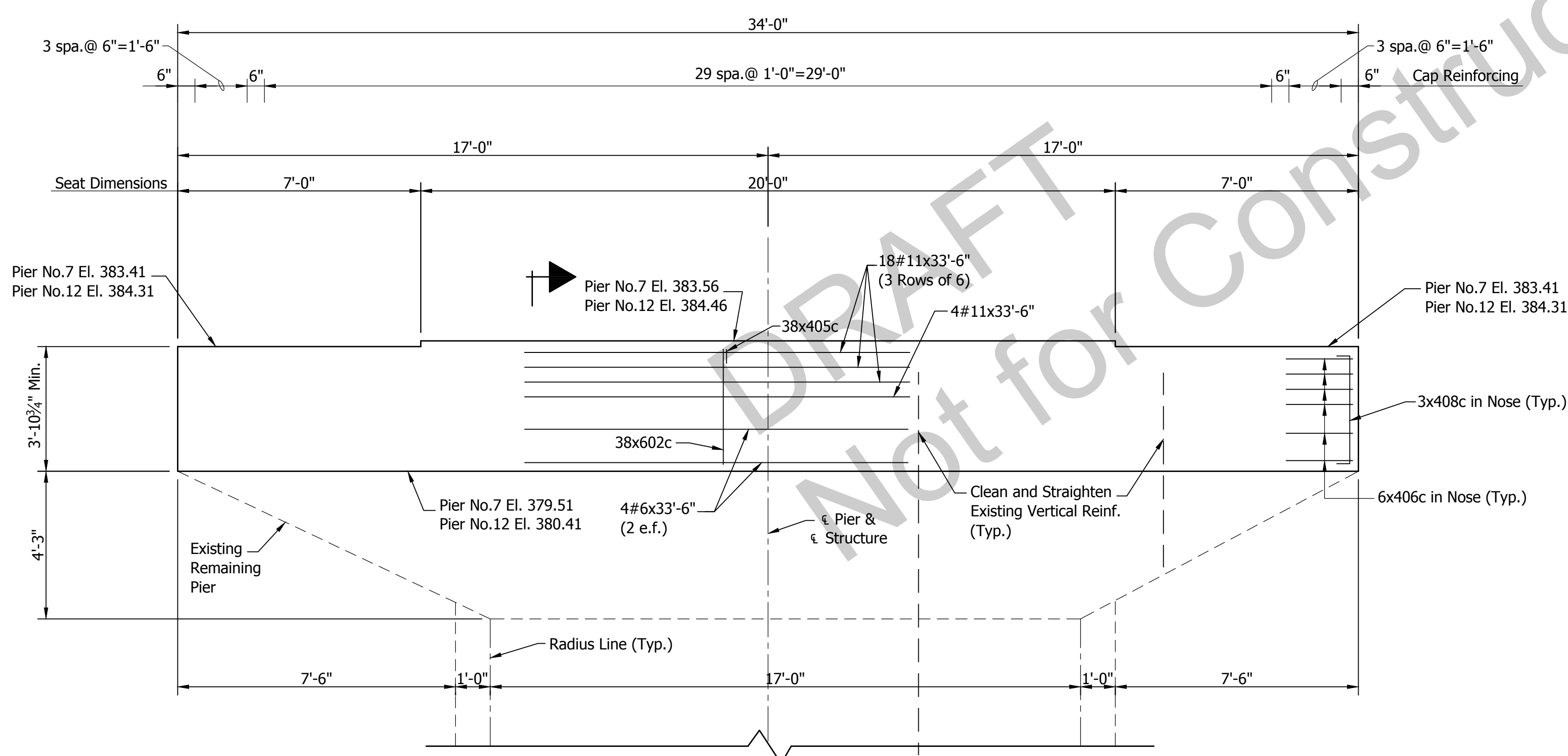
⊕ A.S.T.M. A615, Grade 60



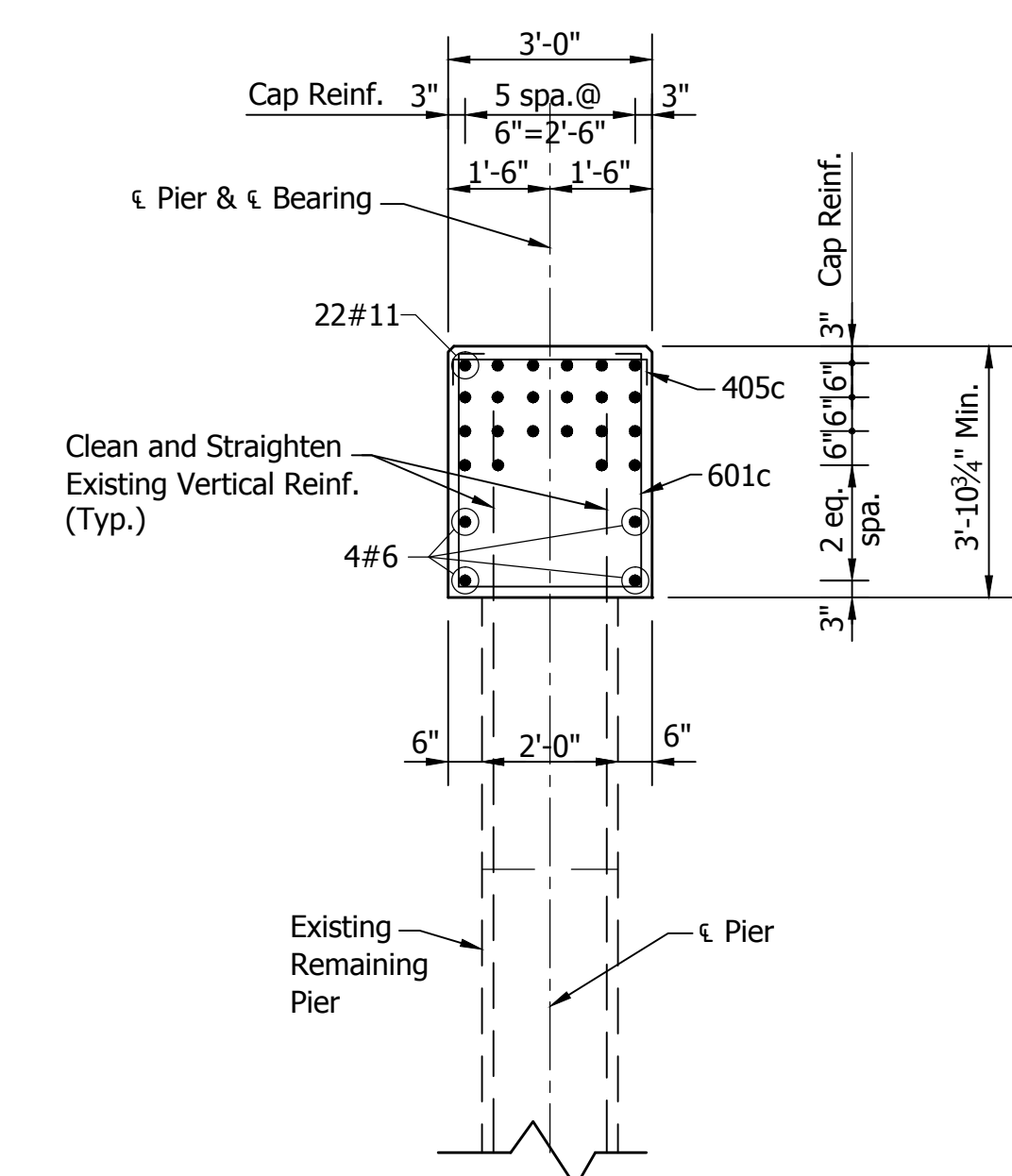
**CAP PLAN**  
 Scale: 3/8"=1'-0"



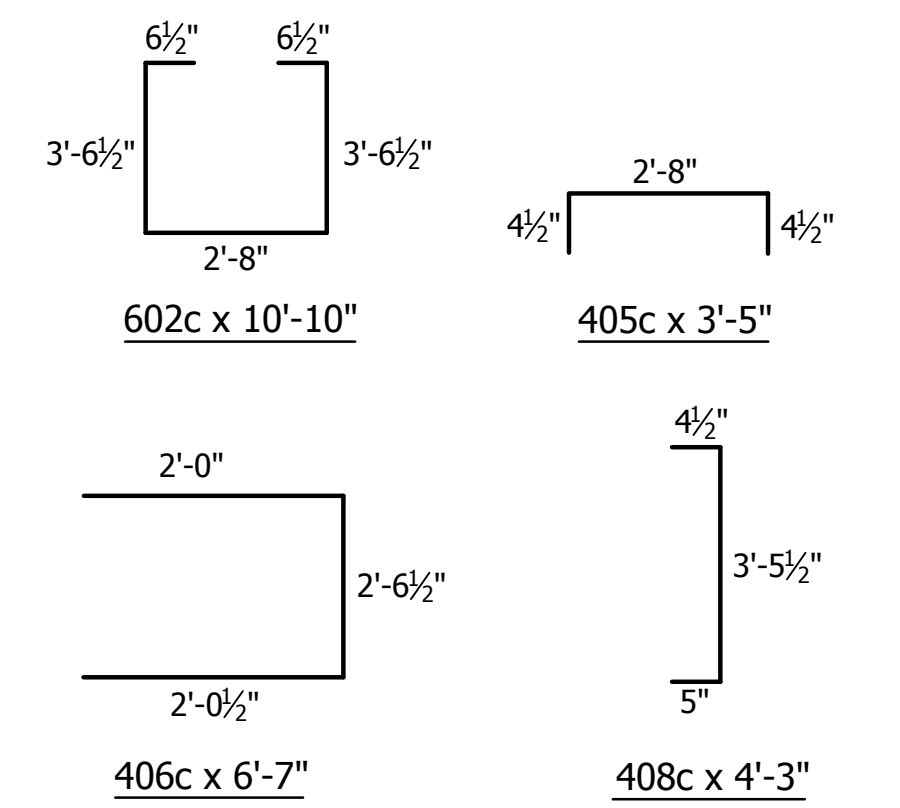
**PLAN-SECTION CAP NOSE**  
 Scale: 3/4"=1'-0"



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

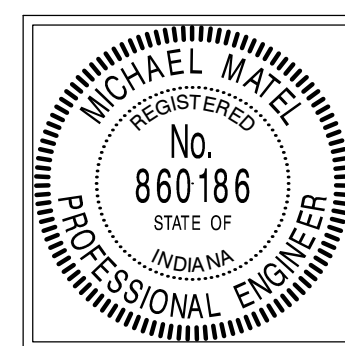


**SECTION**  
 Scale: 3/8"=1'-0"



**BAR BENDING DETAILS**  
 Not to Scale

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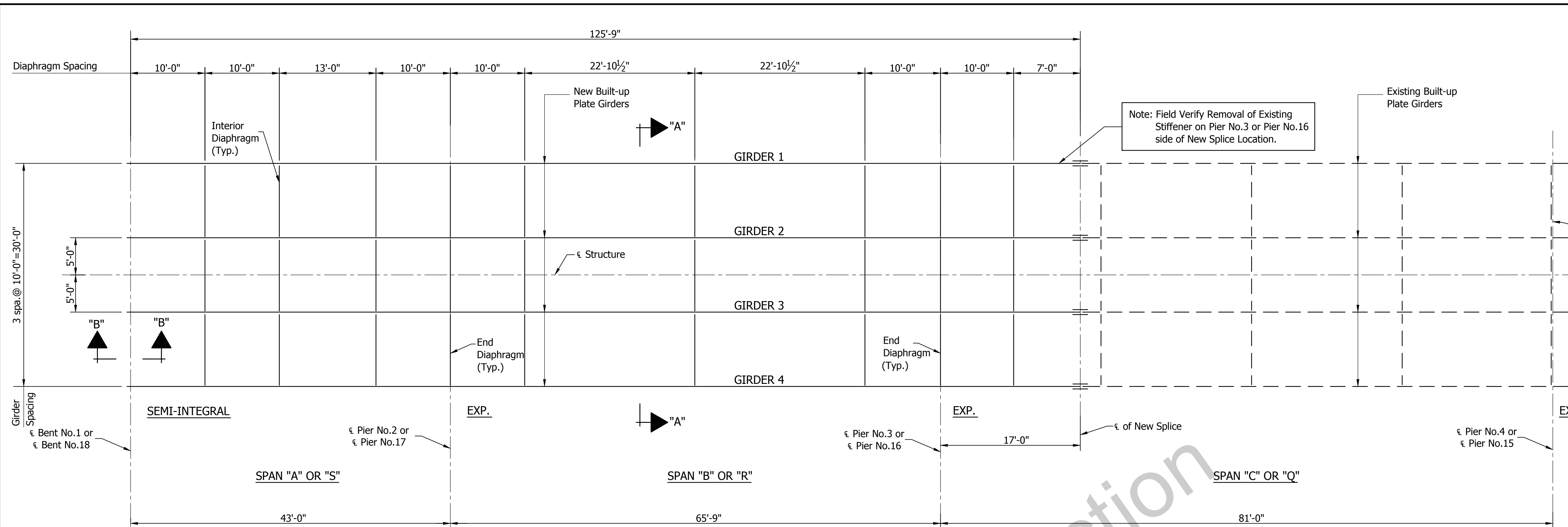
RECOMMENDED FOR APPROVAL: *Michael Matel* 10/31/16  
 DESIGN ENGINEER DATE  
 DESIGNED: C. OBRIEN DRAWN: D. SHEETZ  
 CHECKED: B. WRIGHT CHECKED: M. MATEL

INDIANA DEPARTMENT OF TRANSPORTATION  
**PIER NO.7 OR NO.12 DETAILS**  
**SOUTHBOUND STRUCTURE**

HORIZONTAL SCALE AS NOTED	BRIDGE FILE 041-82-4999JB
VERTICAL SCALE AS NOTED	DESIGNATION 0200635
SURVEY BOOK	SHEET 18 OF 33
CONTRACT B-33539	PROJECT 0200635

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BFS NO.

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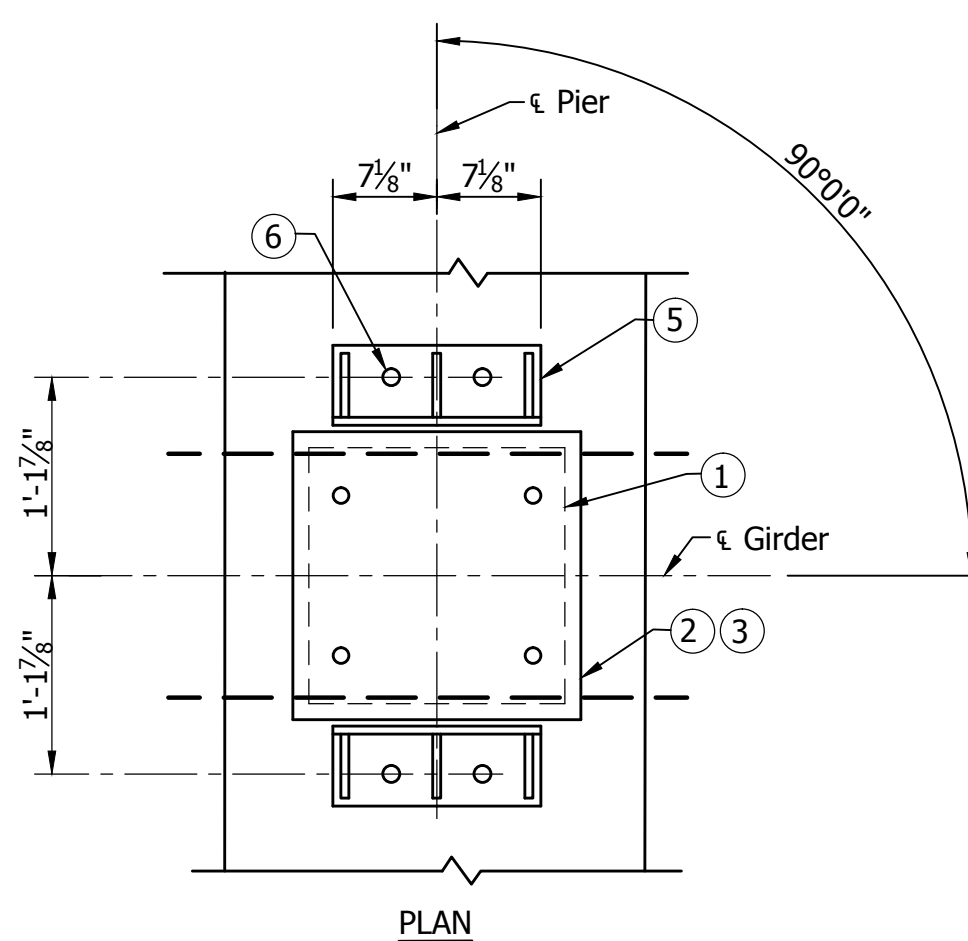
**STRUCTURAL STEEL FABRICATION NOTES**

All Structural Steel shall be A.S.T.M. A709, Grade 50 unless otherwise noted.

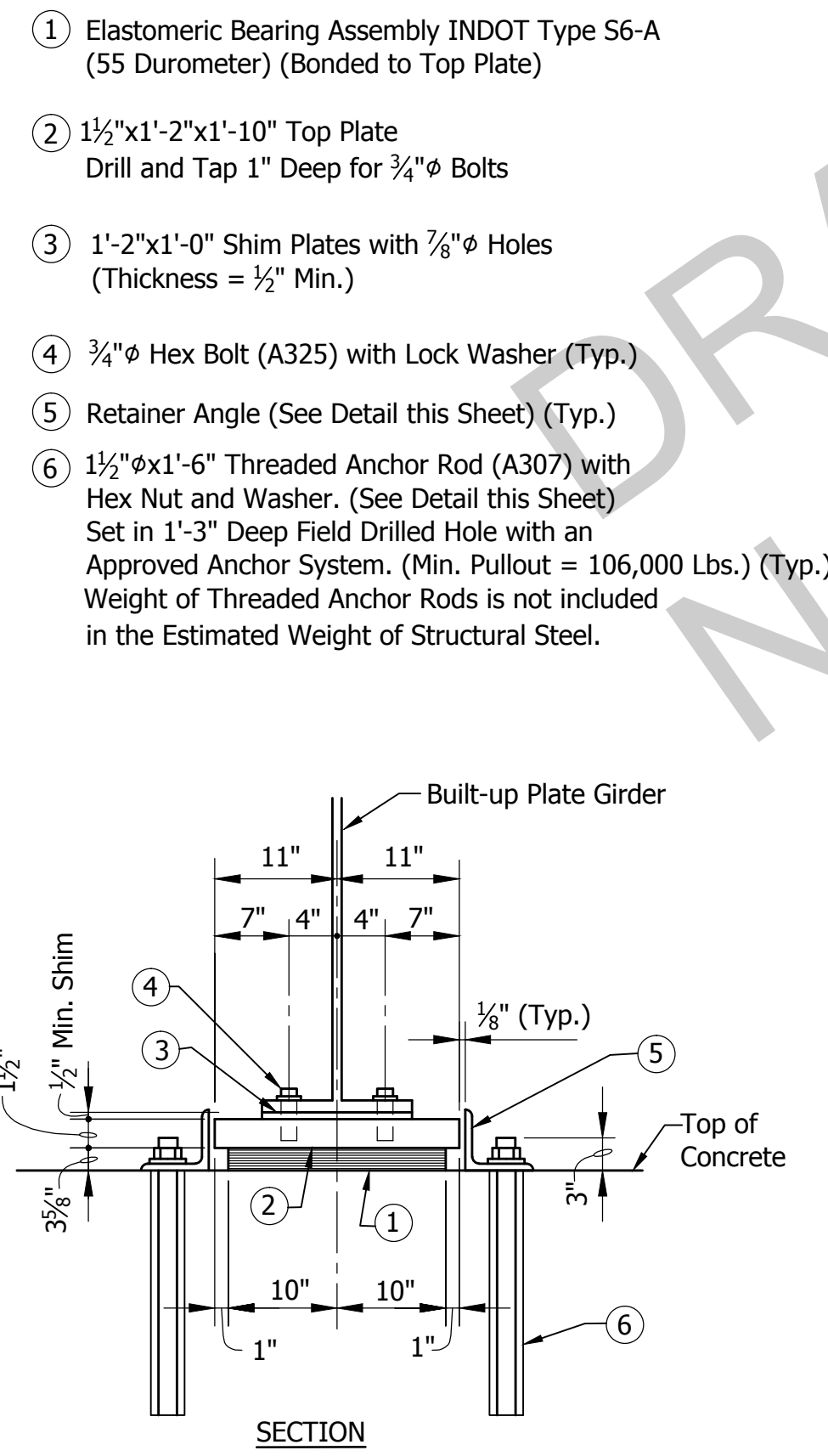
All bolts shall be 7/8"φ A325 High Strength and all holes shall be 15/16"φ unless otherwise noted.

Estimated weight of Structural Steel of 168442 pounds includes 16660 pounds of Grade 36 and 151782 pounds of Grade 50. 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.

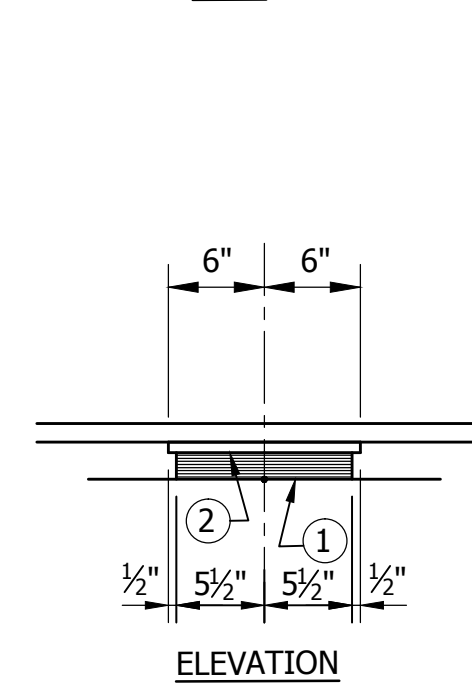
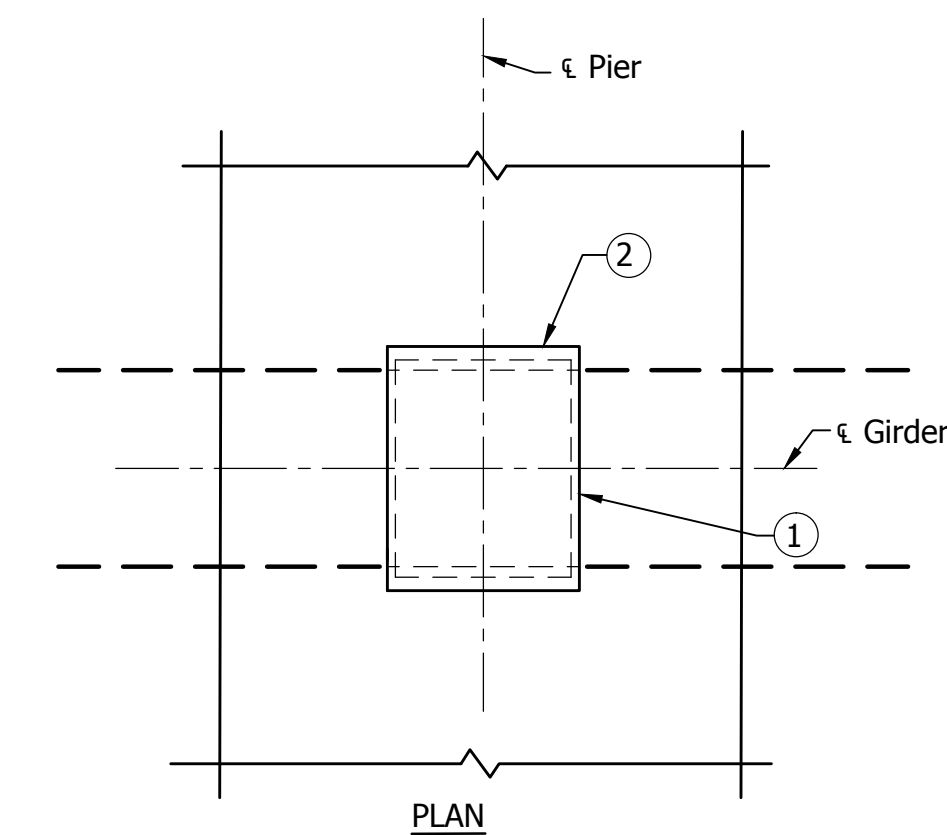
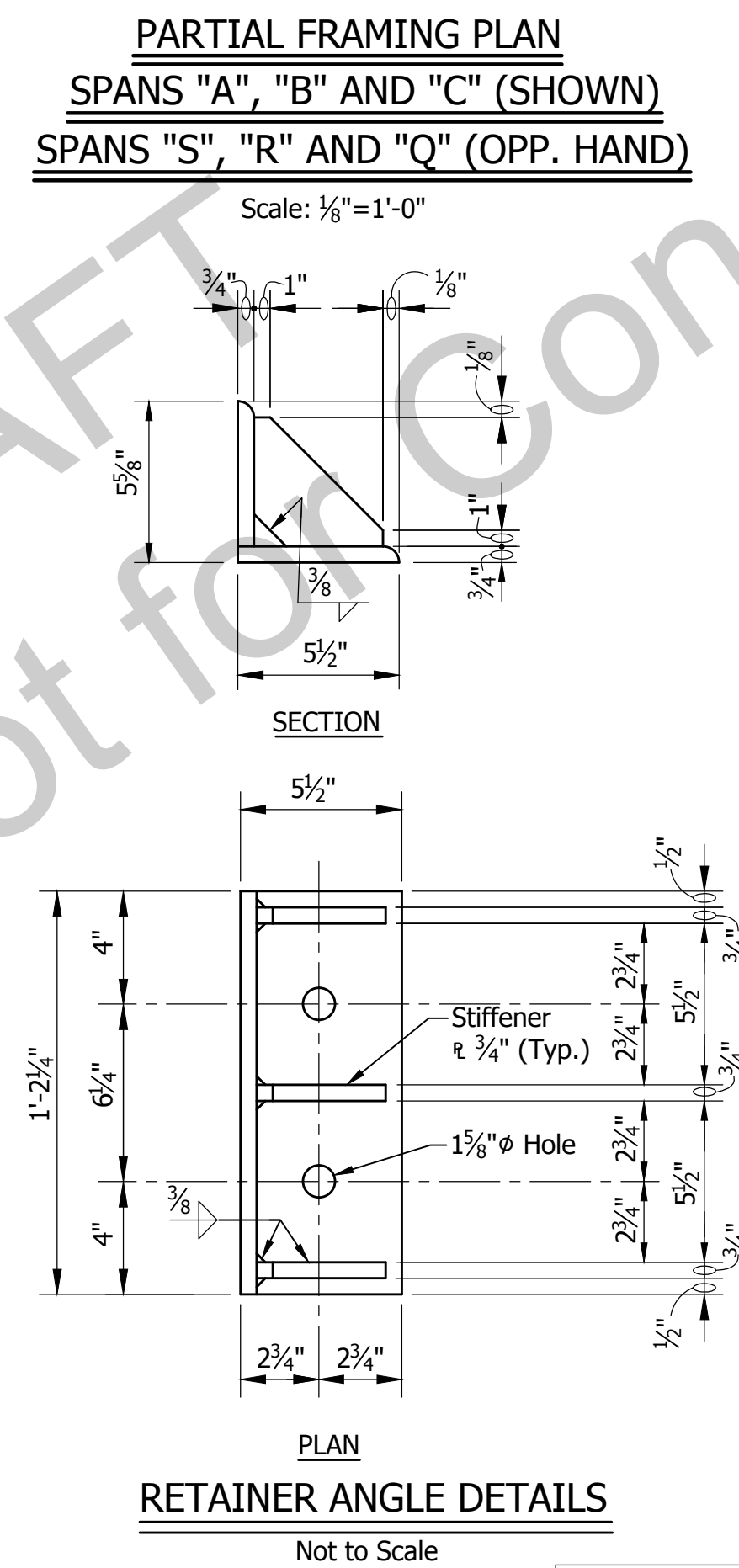
The dimensions for these detail plans are based on construction plans and/or shop drawings of the original structure. It is the Contractor's responsibility to verify controlling dimensions in the field prior to fabrication.



**PIER NO.2, NO.3, NO.7, NO.12, NO.16 AND NO.17**  
**EXPANSION BEARING ASSEMBLY**  
 Not to Scale

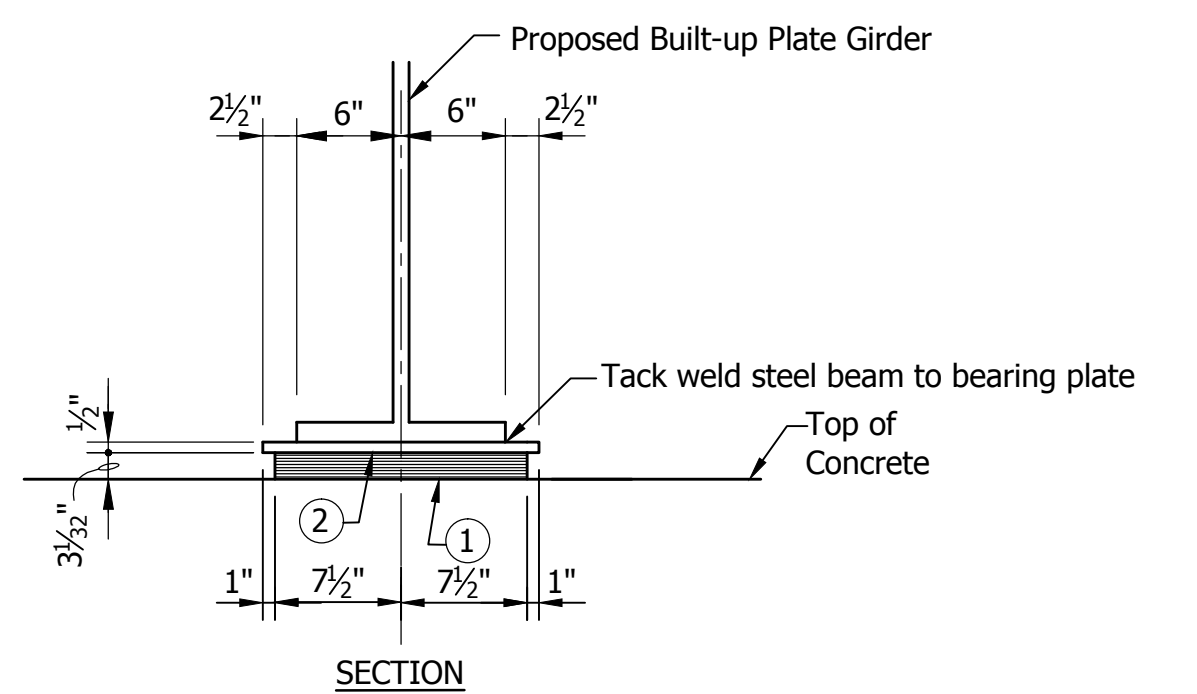


Note: All Steel for Expansion Bearing Assemblies shall be A36 unless noted.



**BENTS NO.1 AND NO.18**  
**BEARING ASSEMBLY**  
 Not to Scale

- ① Elastomeric Bearing Assembly INDOT Type S4-A (55 Durometer) (Bonded to Top Plate)
- ② 1'-0"x1'-5" Top Plate



**NOTES**

See Sheet 12 for Section "B-B".  
 See Sheet 20 for Girder Elevations and Shear Stud Details.  
 See Sheet 21 for Splice Details.  
 See Sheet 23 for No Load Camber and Reaming Diagrams.  
 See Sheet 26 for Section "A-A".

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DESIGNED: C. OBRIEN DRAWN: D. SHEETZ  
 CHECKED: B. WRIGHT CHECKED: M. MATEL

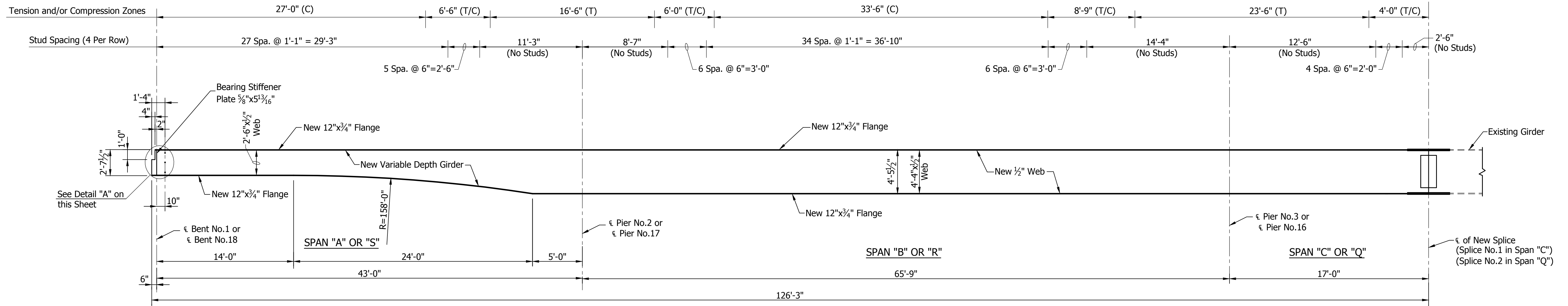
INDIANA DEPARTMENT OF TRANSPORTATION

**STRUCTURAL STEEL DETAILS**  
**SOUTHBOUND STRUCTURE**

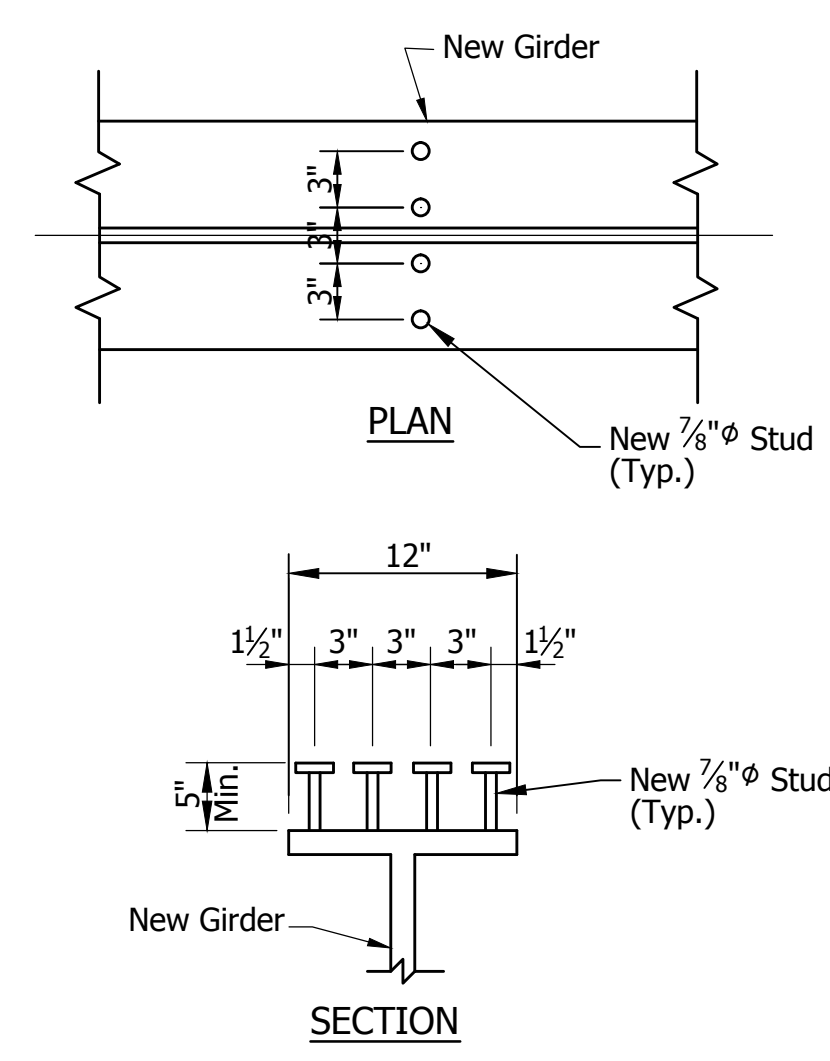
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AS NOTED	041-82-4999JB
VERTICAL SCALE	DESIGNATION
AS NOTED	0200635
SURVEY BOOK	SHEET
	19 OF 33
CONTRACT	PROJECT
B-33539	0200635

BFS NO. 5605

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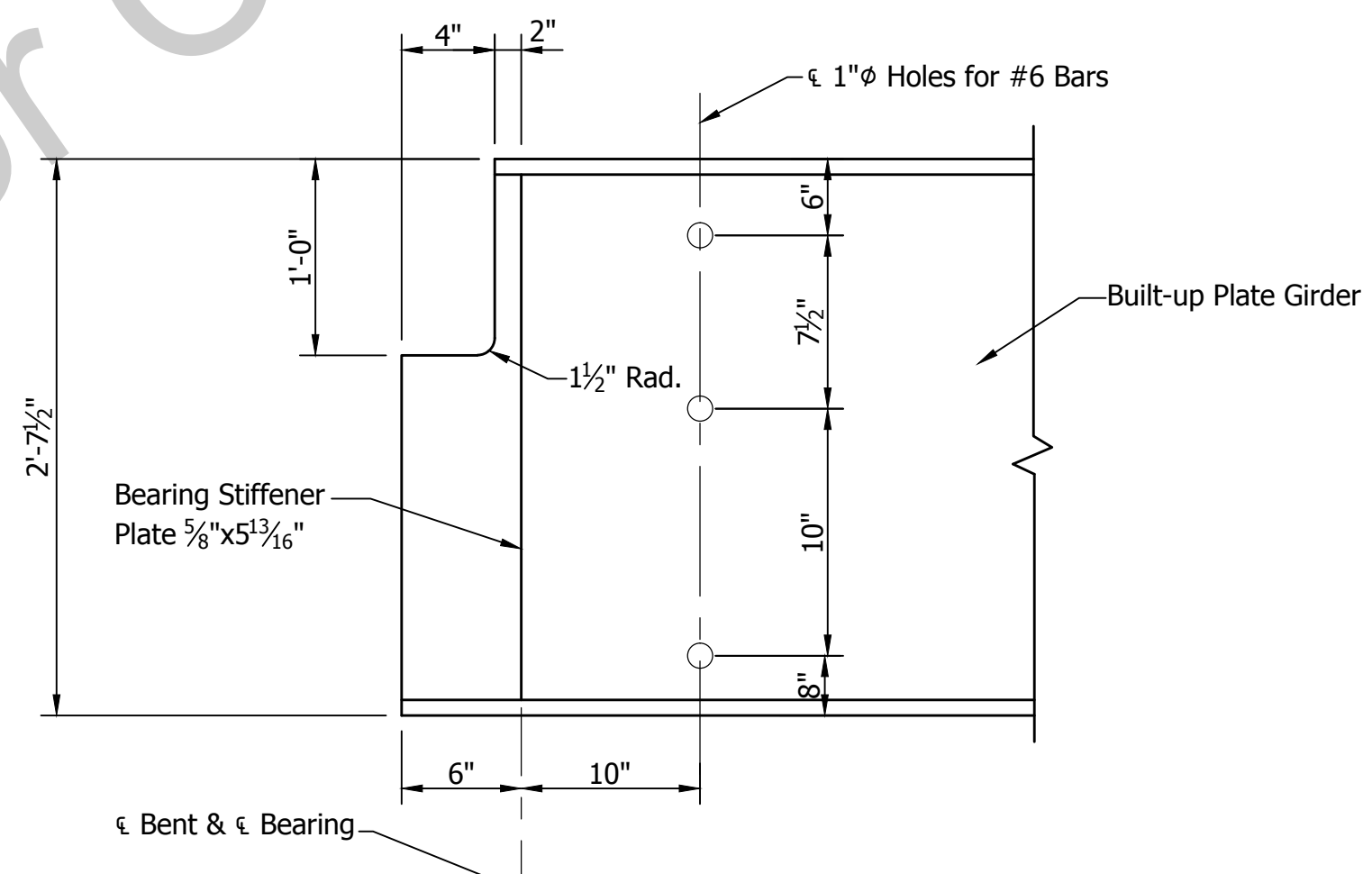


**ELEVATION**  
**NEW GIRDERS 1 THRU 4**  
**SPANS "A", "B" AND "C" (SHOWN)**  
**SPANS "S", "R" AND "Q" (OPP. HAND)**  
 Not to Scale



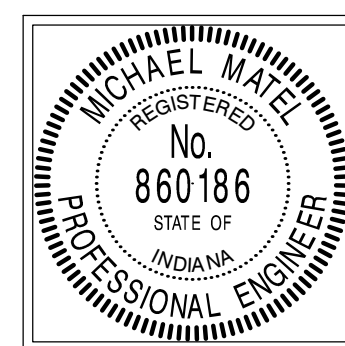
**SHEAR STUD DETAILS**  
 Not to Scale

**Notes:**  
 Top of Beams shall be cleaned prior to installation of Shear Studs per Section 619.  
 The cost and installation of 7/8" φ Shear Studs on New Girders shall be included in the cost of Structural Steel.  
 Shear Stud Connectors on New Girders:  
 Total = 2720 Each



**DETAIL "A"**  
 Not to Scale

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



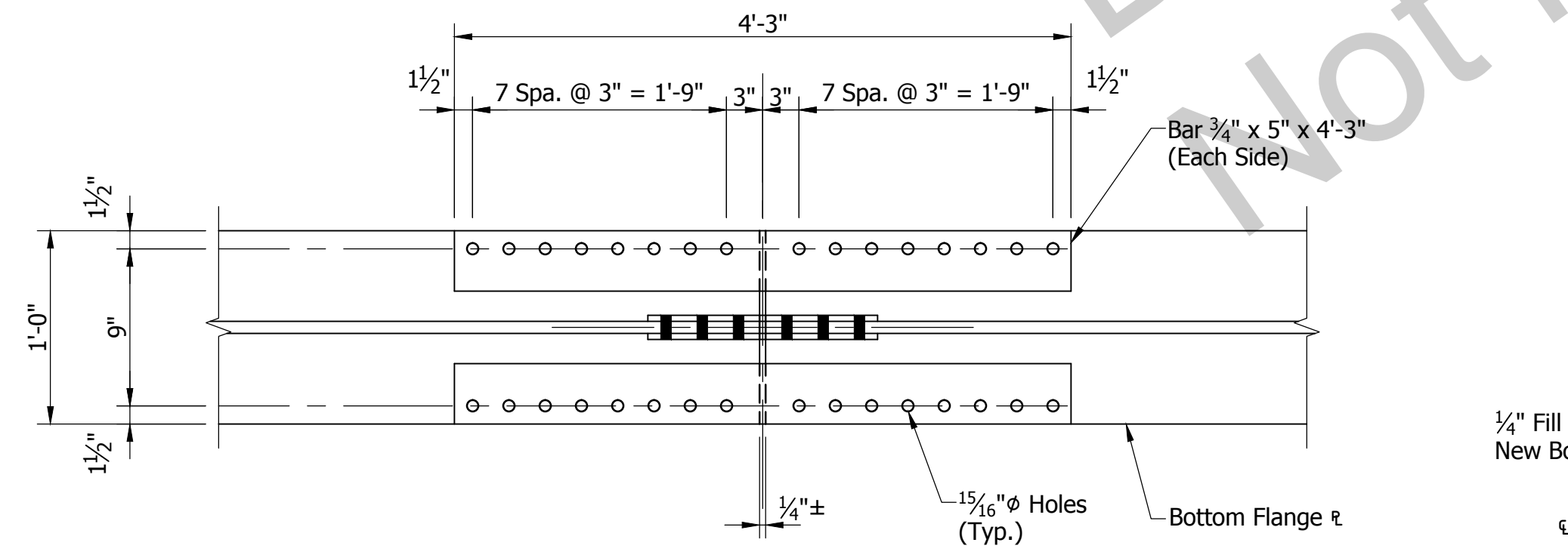
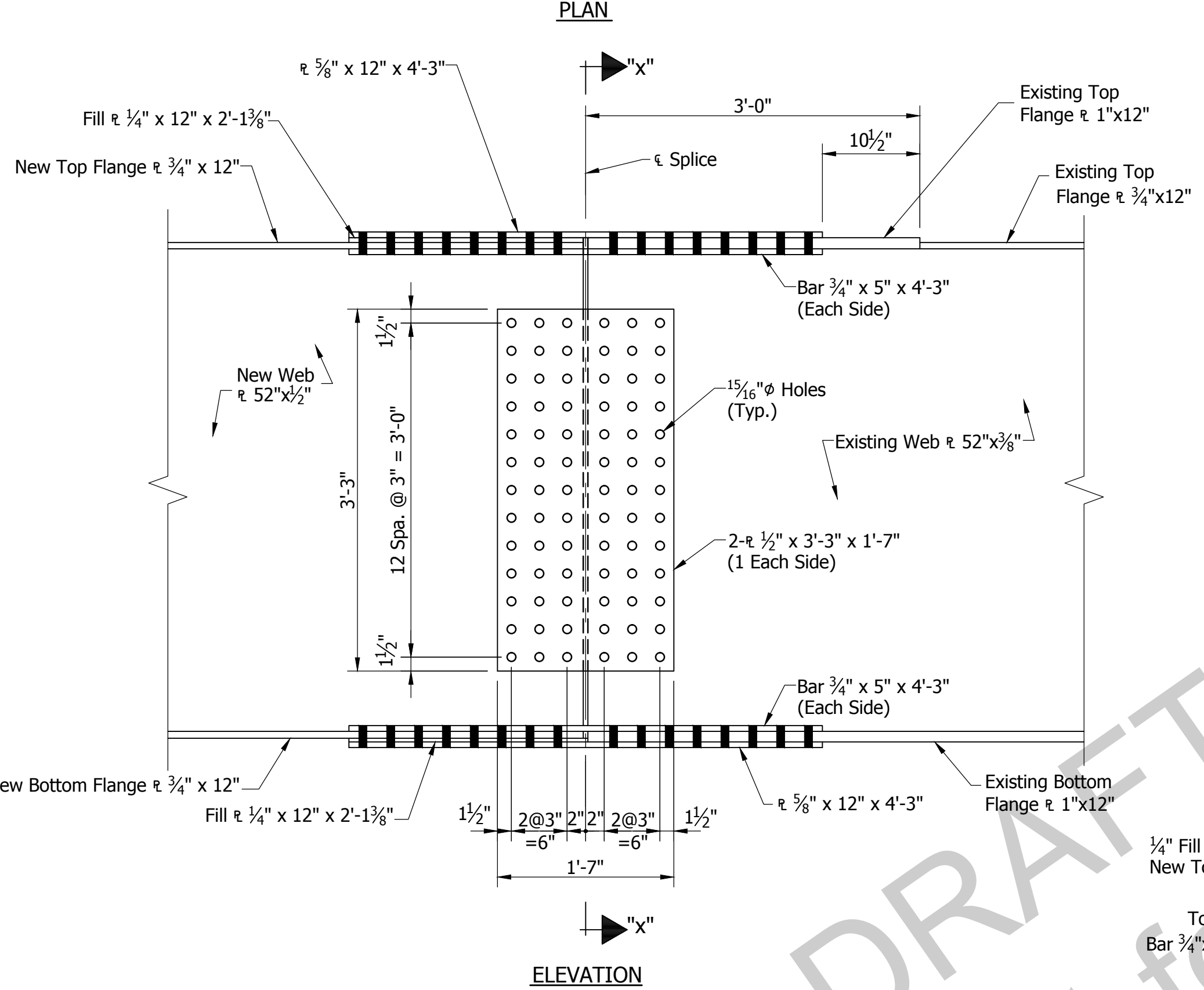
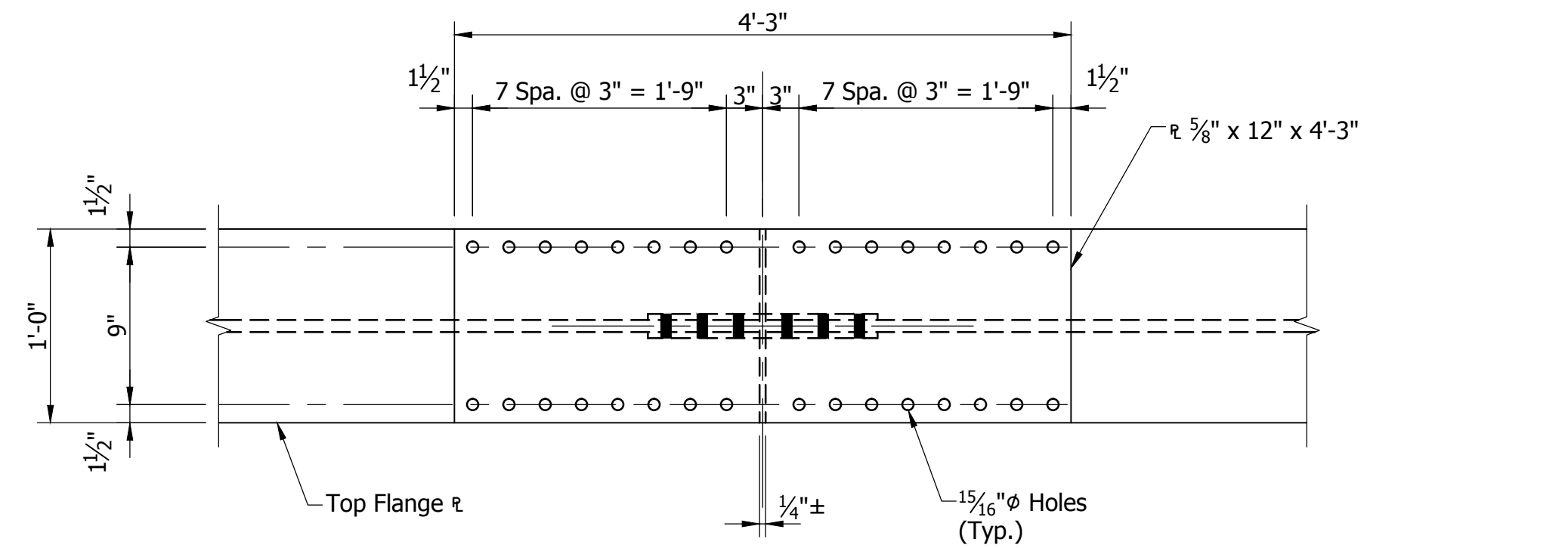
RECOMMENDED FOR APPROVAL: *Michael M. Matel* 10/31/16  
 DESIGN ENGINEER DATE  
 DESIGNED: C. OBRIEN DRAWN: D. SHEETZ  
 CHECKED: B. WRIGHT CHECKED: M. MATEL

**INDIANA**  
**DEPARTMENT OF TRANSPORTATION**  
**STRUCTURAL STEEL DETAILS**  
**SOUTHBOUND STRUCTURE**

HORIZONTAL SCALE	BRIDGE FILE
AS NOTED	041-82-4999JB
VERTICAL SCALE	DESIGNATION
AS NOTED	0200635
SURVEY BOOK	SHEET
	20 OF 33
CONTRACT	PROJECT
B-33539	0200635

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 BPS NO.

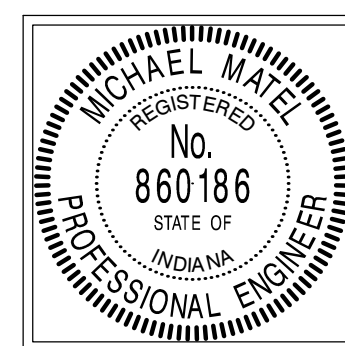
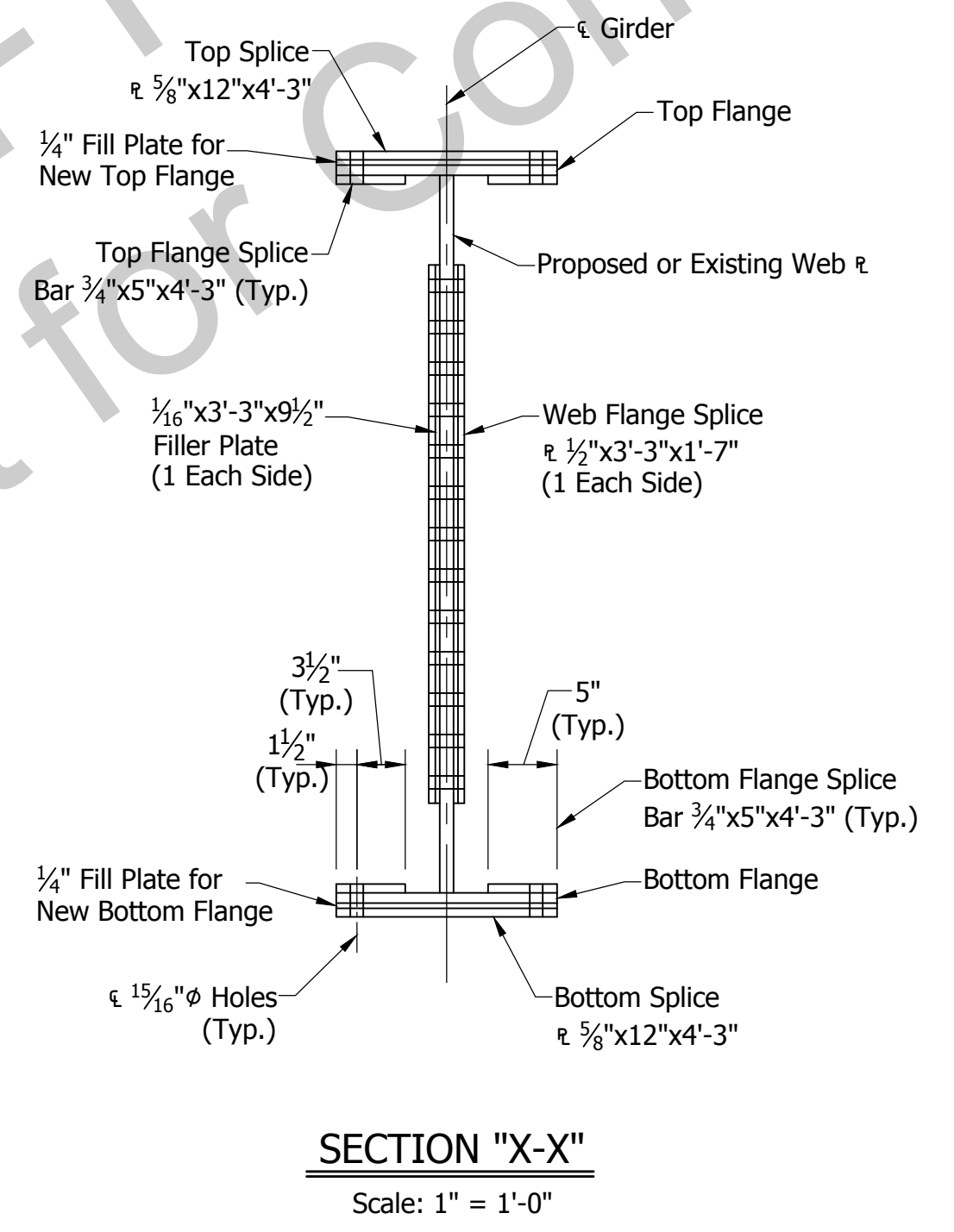
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**SPLICE NO.1 AND NO.2 DETAILS**  
Scale: 1" = 1'-0"

TOP OF SPLICE ELEVATIONS		
GIRDER	SPLICE NO.1	SPLICE NO.2
1	387.74	390.02
2	387.89	390.17
3	387.89	390.17
4	387.74	390.02

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 the Elevations shown in Table before field splices are bolted.



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CHECKED: B. WRIGHT CHECKED: M. MATEL

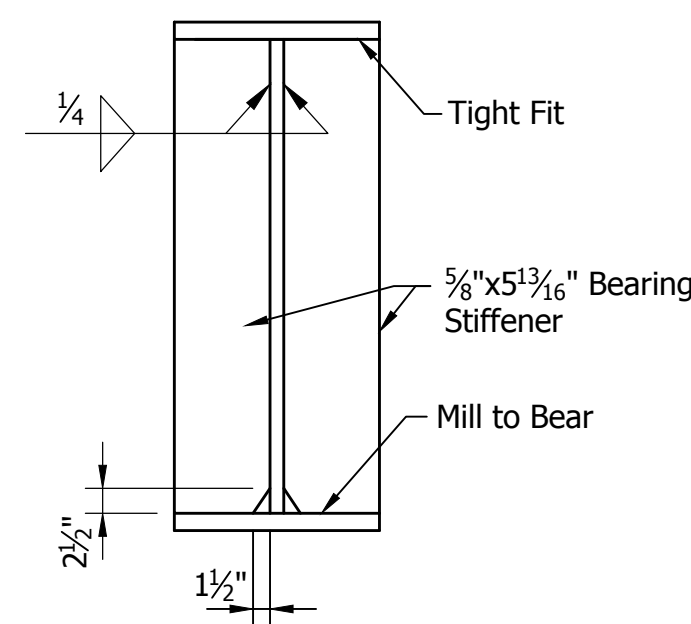
INDIANA DEPARTMENT OF TRANSPORTATION

STRUCTURAL STEEL DETAILS  
SOUTHBOUND STRUCTURE

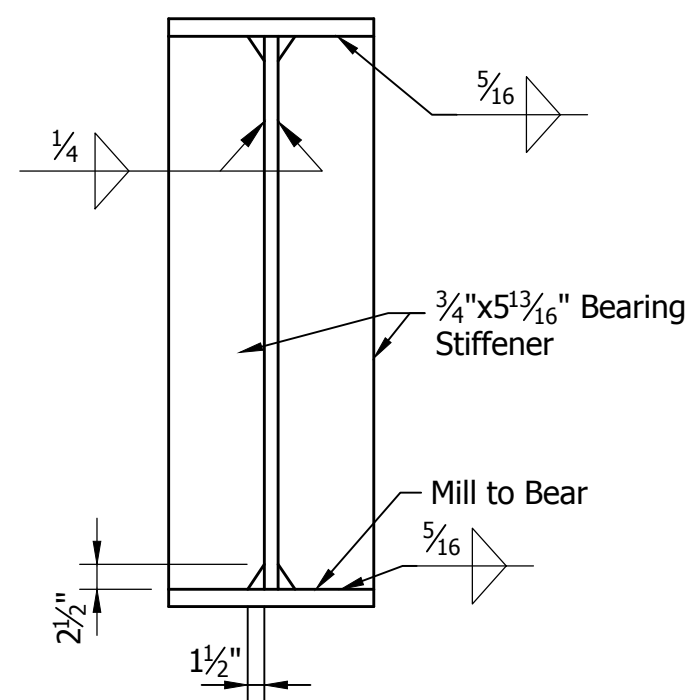
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VERTICAL SCALE AS NOTED	DESIGNATION 0200635
SURVEY BOOK	SHEET 21 OF 33
CONTRACT B-33539	PROJECT 0200635

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BFS NO.

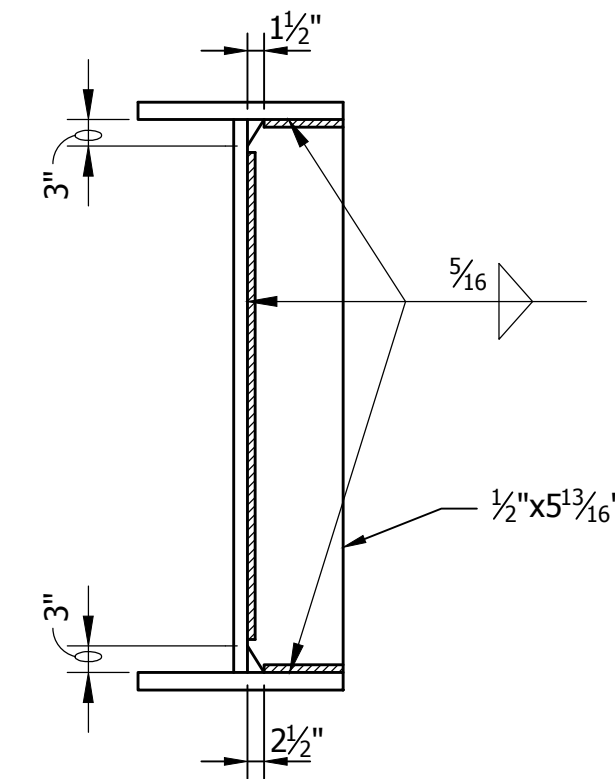
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**BEARING STIFFENERS**  
**AT END BENT**  
Not to Scale

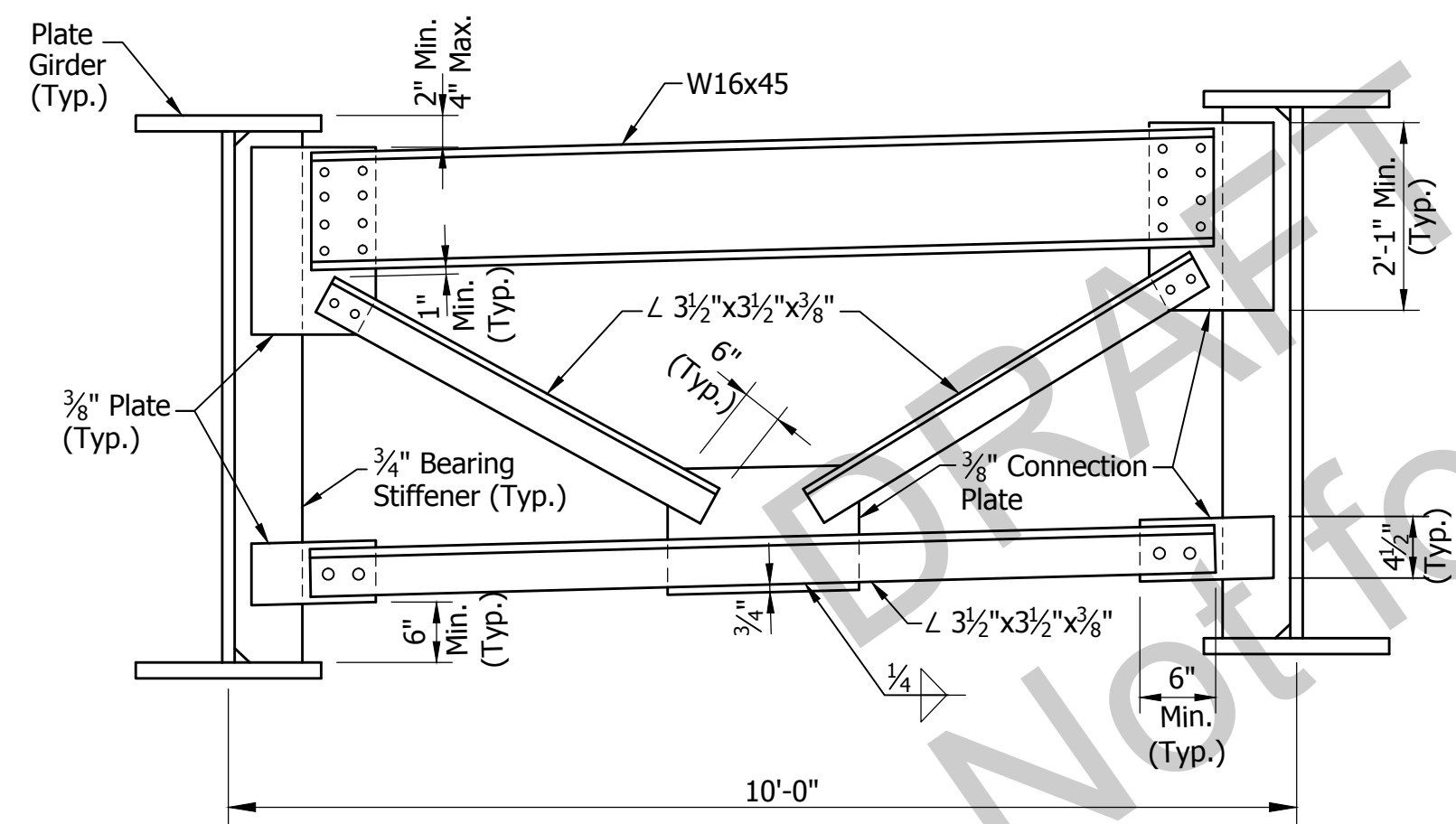


**BEARING STIFFENERS**  
**AT PIER**  
Not to Scale

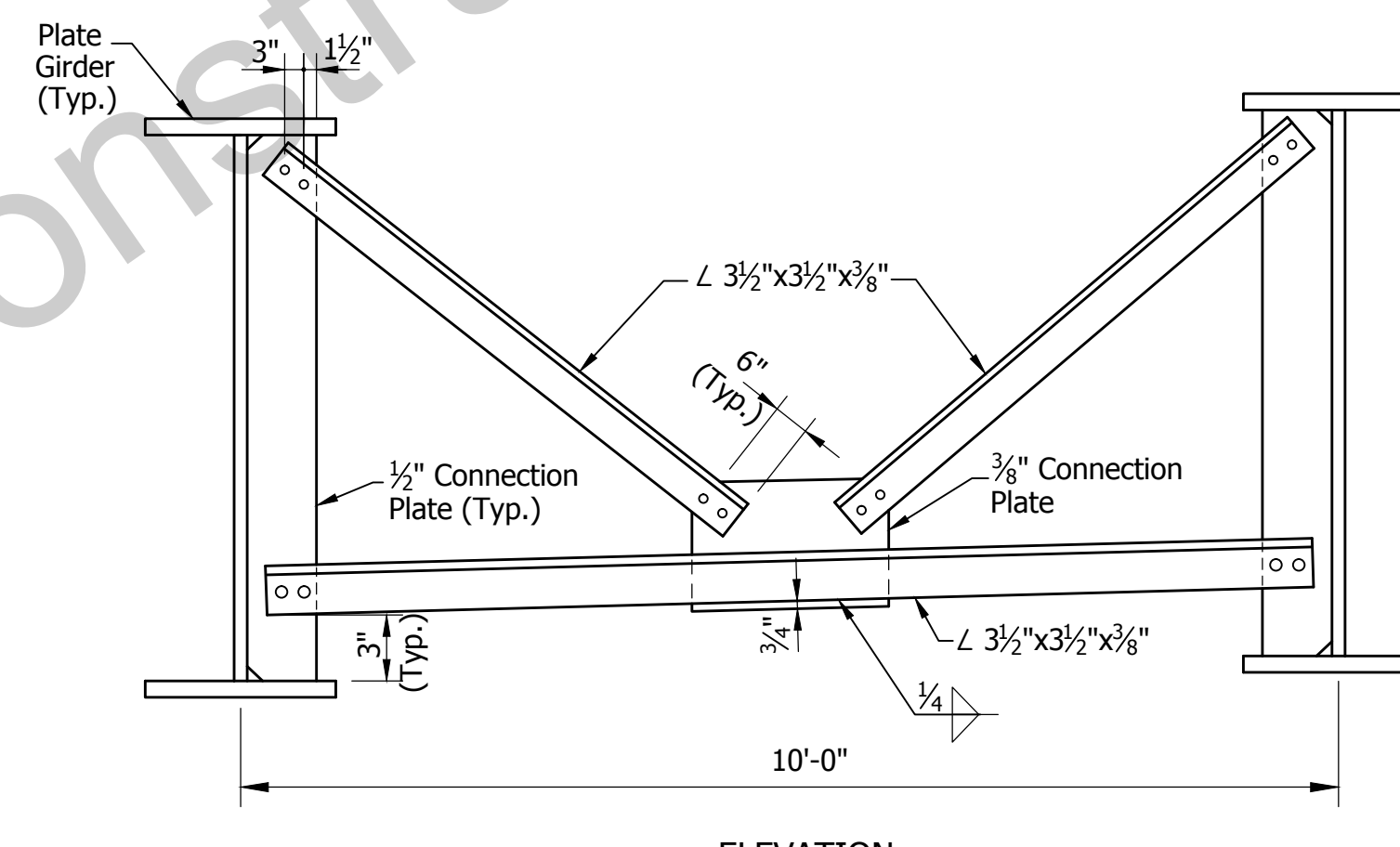


**\* INTERMEDIATE DIAPHRAGM CONNECTION PLATE**  
Not to Scale

\* Note: All Structural Steel for the End and Intermediate Diaphragms shall be Grade 36 Steel.

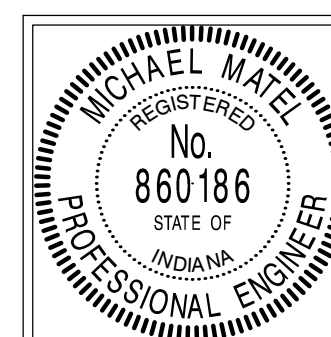


**ELEVATION**  
**\* END DIAPHRAGM AT PIERS**  
Not to Scale



**ELEVATION**  
**\* INTERMEDIATE DIAPHRAGM**  
Not to Scale

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



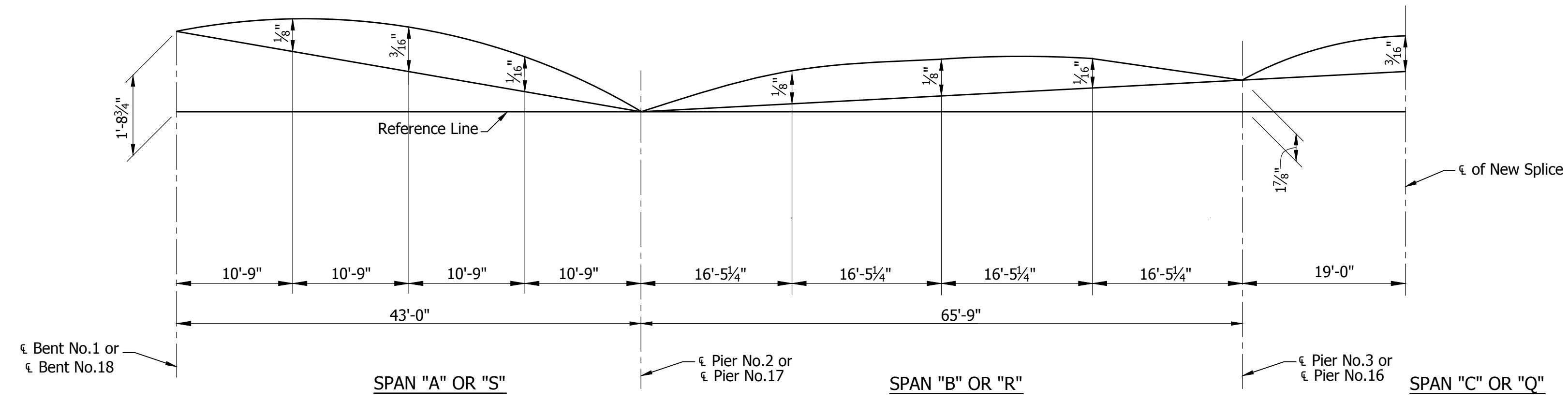
RECOMMENDED FOR APPROVAL: *Michael Matel* 10/31/16  
DESIGN ENGINEER DATE  
DESIGNED: C. OBRIEN DRAWN: D. SHEETZ  
CHECKED: B. WRIGHT CHECKED: M. MATEL

INDIANA DEPARTMENT OF TRANSPORTATION  
**STRUCTURAL STEEL DETAILS**  
**SOUTHBOUND STRUCTURE**

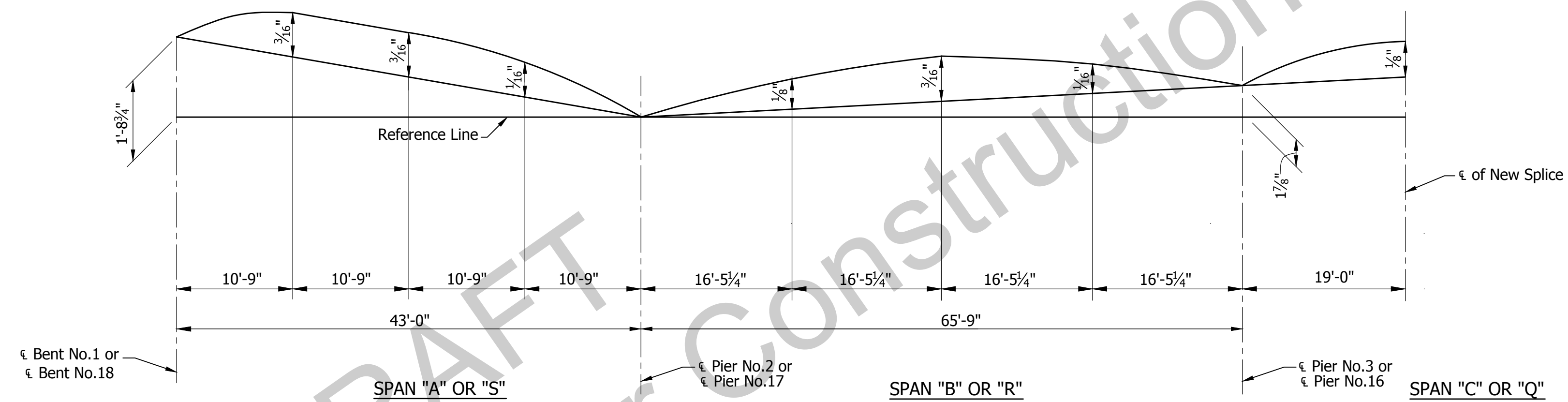
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AS NOTED	041-82-4999JB
VERTICAL SCALE	DESIGNATION
AS NOTED	0200635
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	22 OF 33
CONTRACT	PROJECT
B-33539	0200635

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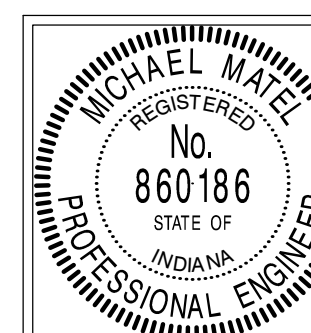
**NO LOAD CAMBER AND REAMING DIAGRAM (EXTERIOR GIRDERS)**  
Not to Scale



**NO LOAD CAMBER AND REAMING DIAGRAM (INTERIOR GIRDERS)**  
Not to Scale

TABLE OF CAMBERS (EXTERIOR GIRDERS)									
	SPAN "A" OR "S"			SPAN "B" OR "R"			SPAN "C" OR "Q"		
	1/4 PT.	1/2 PT.	3/4 PT.	1/4 PT.	1/2 PT.	3/4 PT.	ϵ Splice	—	—
DEAD LOAD STEEL	0	0	0	0	0	0	0	—	—
DEAD LOAD CONCRETE	1/8"	3/16"	1/16"	1/8"	1/8"	1/16"	3/16"	—	—
SUBTOTAL	1/8"	3/16"	1/16"	1/8"	1/8"	1/16"	3/16"	—	—
VERTICAL CURVE	0	0	0	0	0	0	0	—	—
TOTAL	1/8"	3/16"	1/16"	1/8"	1/8"	1/16"	3/16"	—	—

TABLE OF CAMBERS (INTERIOR GIRDERS)									
	SPAN "A" OR "S"			SPAN "B" OR "R"			SPAN "C" OR "Q"		
	1/4 PT.	1/2 PT.	3/4 PT.	1/4 PT.	1/2 PT.	3/4 PT.	ϵ Splice	—	—
DEAD LOAD STEEL	0	0	0	0	0	0	0	—	—
DEAD LOAD CONCRETE	3/16"	3/16"	1/16"	1/8"	3/16"	1/16"	1/8"	—	—
SUBTOTAL	3/16"	3/16"	1/16"	1/8"	3/16"	1/16"	1/8"	—	—
VERTICAL CURVE	0	0	0	0	0	0	0	—	—
TOTAL	3/16"	3/16"	1/16"	1/8"	3/16"	1/16"	1/8"	—	—



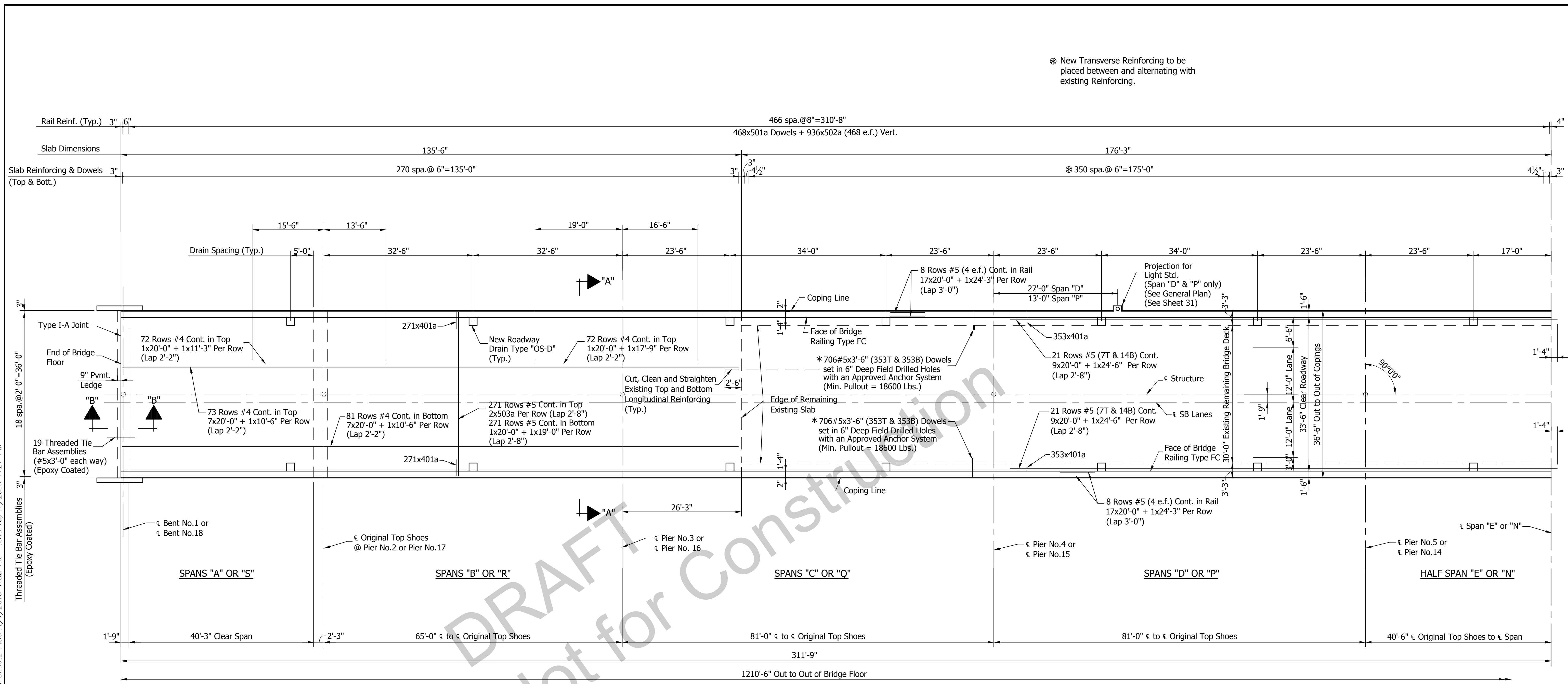
RECOMMENDED FOR APPROVAL: *Michael Matel* 10/31/16  
DESIGN ENGINEER DATE  
DESIGNED: C. OBRIEN DRAWN: D. SHEETZ  
CHECKED: B. WRIGHT CHECKED: M. MATEL

INDIANA DEPARTMENT OF TRANSPORTATION  
STRUCTURAL STEEL DETAILS  
SOUTHBOUND STRUCTURE

HORIZONTAL SCALE AS NOTED	BRIDGE FILE 041-82-4999JB
VERTICAL SCALE AS NOTED	DESIGNATION 0200635
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CONTRACT B-33539	PROJECT 0200635

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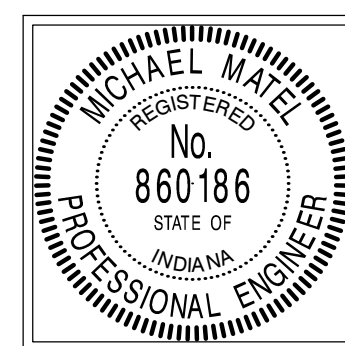


⊗ New Transverse Reinforcing to be placed between and alternating with existing Reinforcing.

**PLAN**  
**SPANS "A", "B", "C", "D" AND HALF SPAN "E" (SHOWN)**  
**HALF SPAN "N", SPANS "P", "Q", "R" AND "S" (OPP. HAND)**  
**SOUTHBOUND STRUCTURE**  
 Scale: 3/32" = 1'-0"

\* Note: As an alternate, clean and straighten exposed existing transverse reinforcing in lieu of field drilled holes and dowels.

**NOTES**  
 See Sheet 12 for Section "B-B"  
 See Sheet 25 for Balance of Plan.  
 See Sheets 26 and 27 for Sections "A-A"  
 and Additional Notes.  
 See Sheet 28 for Concrete Dead Load Deflection Diagrams.  
 See Sheet 29 for Screed Plans and Screed Notes.  
 See Sheet 30 for Screed Elevations.  
 See Sheet 31 for Bar Bending Details and  
 Bill of Materials.



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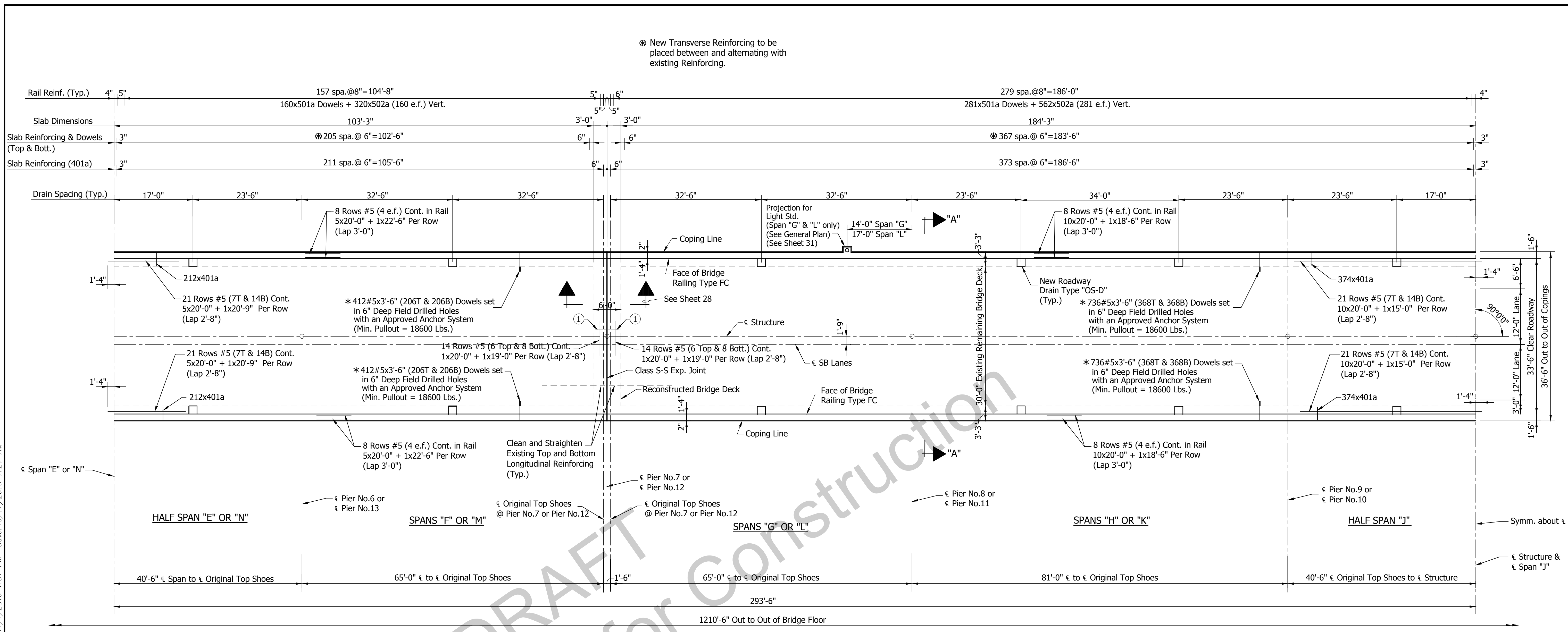
**INDIANA**  
**DEPARTMENT OF TRANSPORTATION**  
**FLOOR DETAILS**  
**SOUTHBOUND STRUCTURE**

HORIZONTAL SCALE AS NOTED	BRIDGE FILE 041-82-4999JB
VERTICAL SCALE AS NOTED	DESIGNATION 0200635
SURVEY BOOK	SHEET 24 OF 33
CONTRACT B-33539	PROJECT 0200635

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① 45x504a spa. w/ Exist. Bottom #5 (15 req'd. @ each Girder Spa.)

\* Note: As an alternate, clean and straighten exposed existing transverse reinforcing in lieu of field drilled holes and dowels.

**NOTES**  
 See Sheet 24 for Balance of Plan.  
 See Sheets 26 and 27 for Sections "A-A" and Additional Notes.  
 See Sheet 28 for Concrete Dead Load Deflection Diagrams.  
 See Sheet 29 for Screed Plans and Screed Notes.  
 See Sheet 30 for Screed Elevations.  
 See Sheet 31 for Bar Bending Details and Bill of Materials.



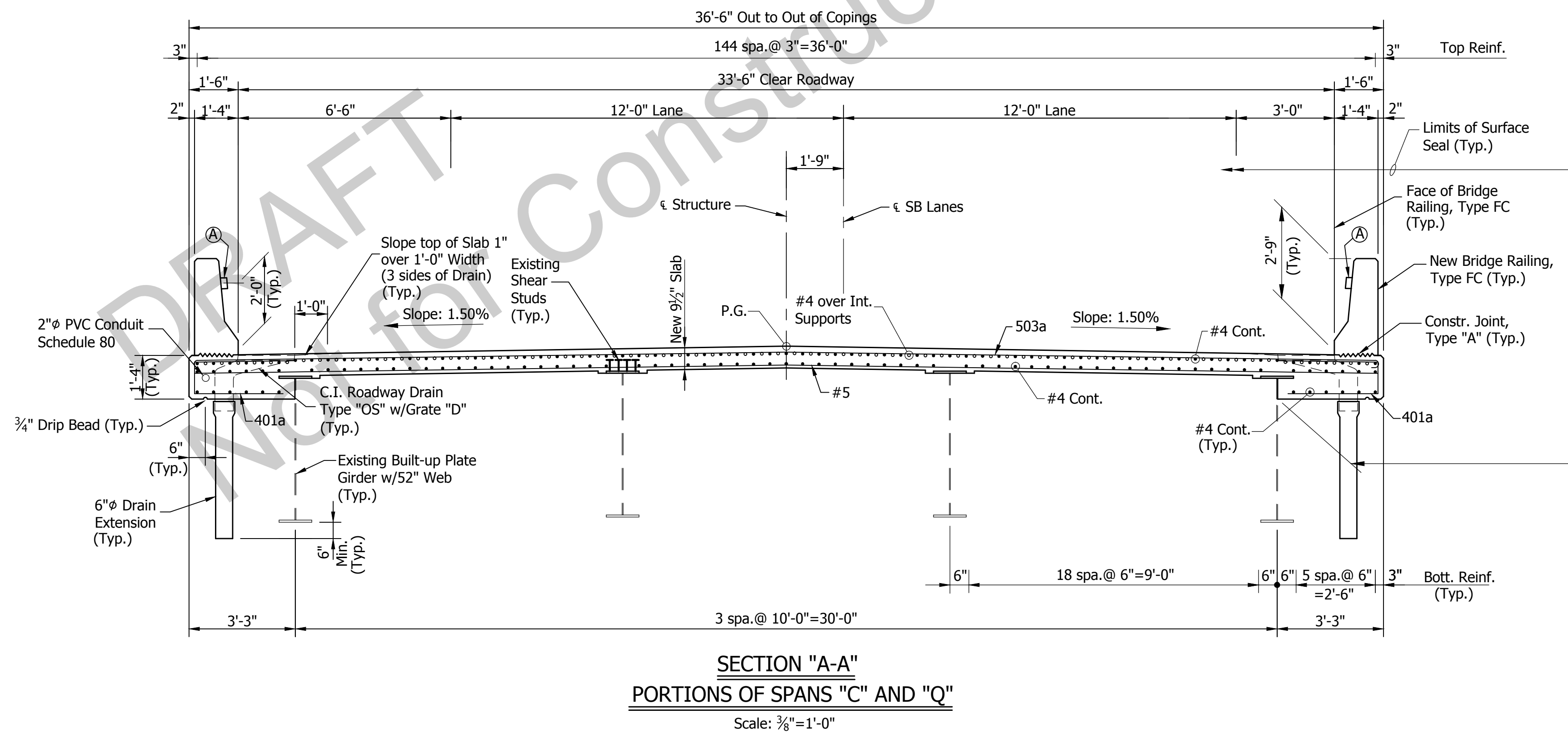
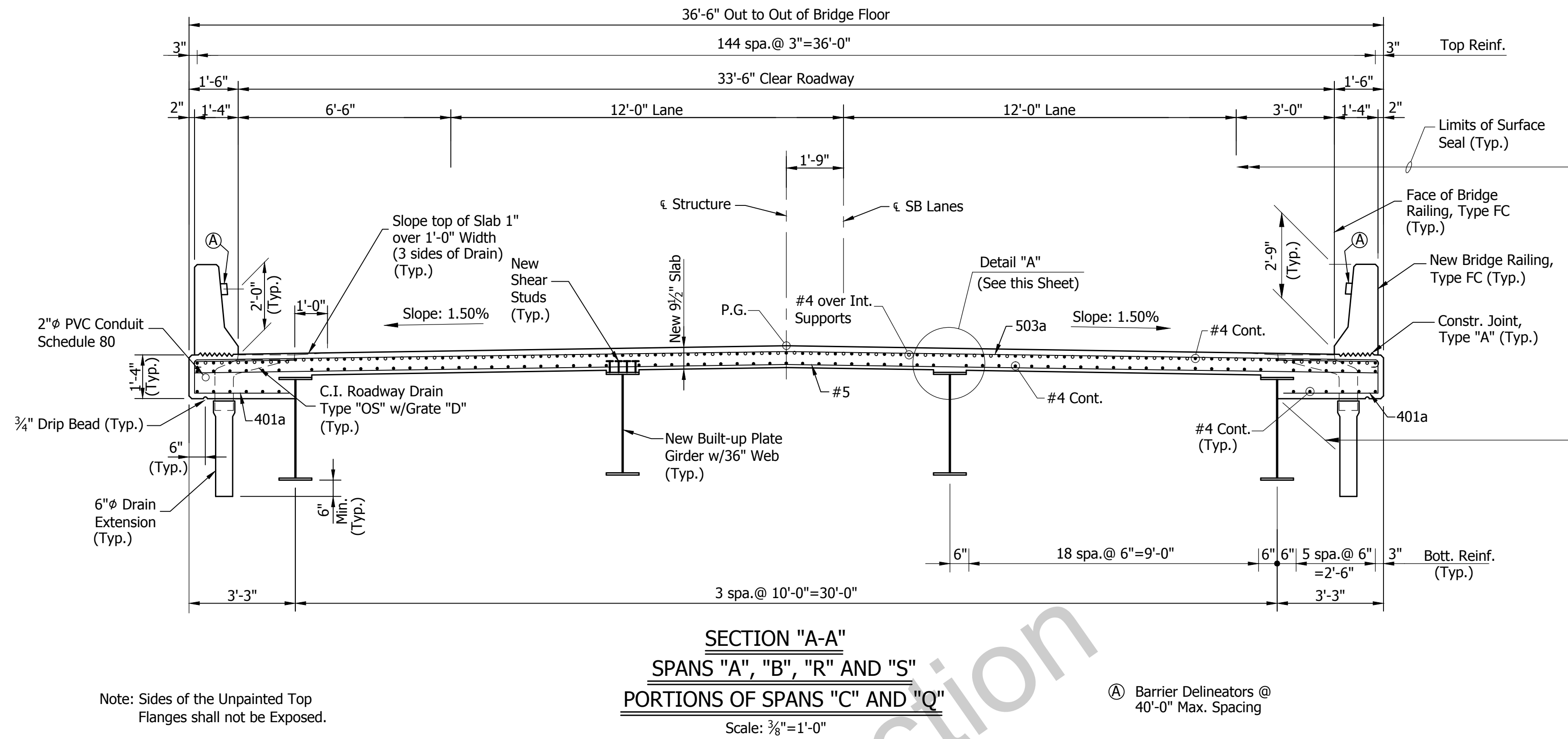
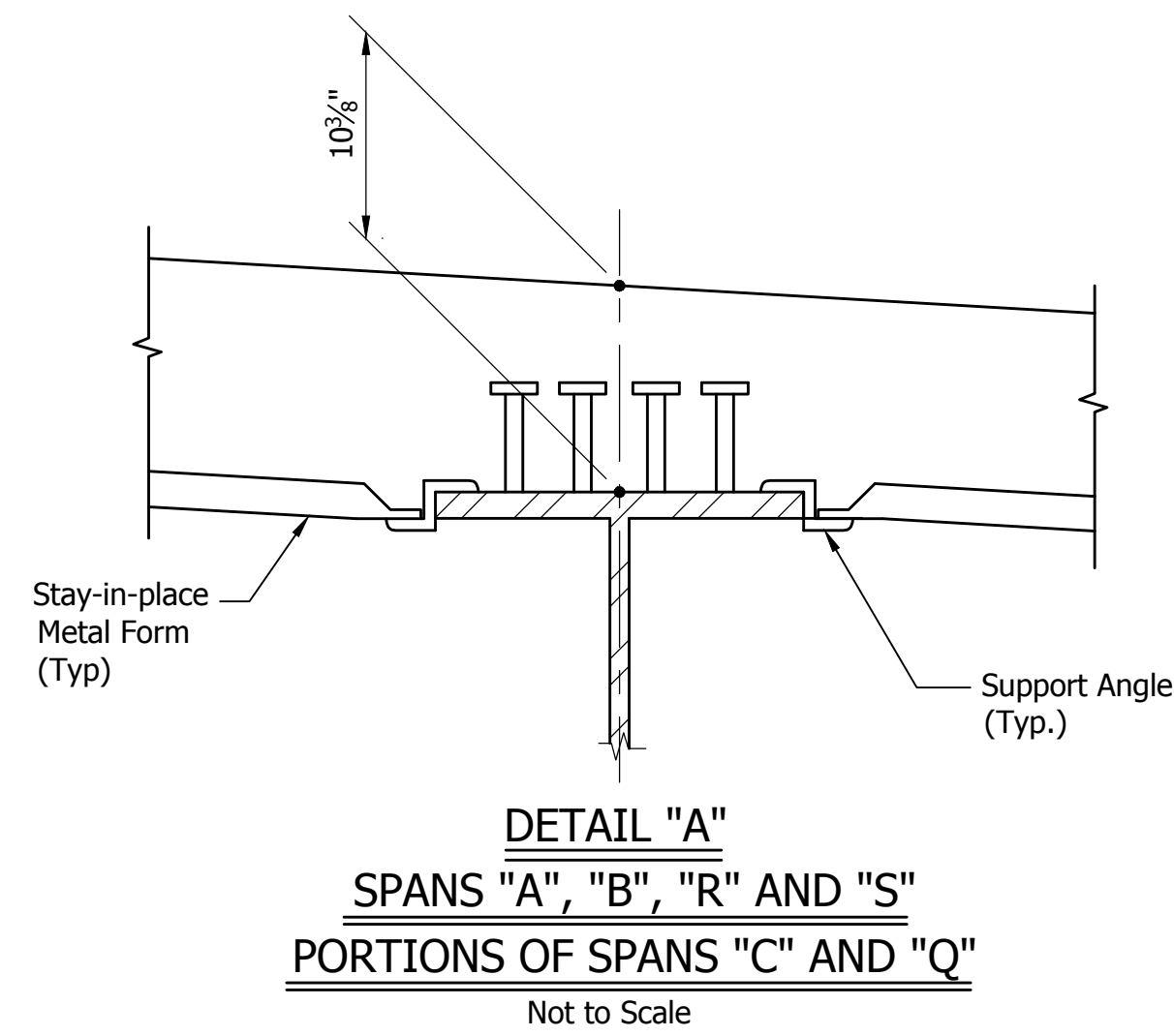
RECOMMENDED FOR APPROVAL: *Michael Matel* 10/31/16  
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 CHECKED: B. WRIGHT CHECKED: M. MATEL

INDIANA  
 DEPARTMENT OF TRANSPORTATION  
 FLOOR DETAILS  
 SOUTHBOUND STRUCTURE

HORIZONTAL SCALE	BRIDGE FILE
AS NOTED	041-82-4999JB
VERTICAL SCALE	DESIGNATION
AS NOTED	0200635
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	25 OF 33
CONTRACT	PROJECT
B-33539	0200635

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**NOTES**  
 See Sheet 28 for Concrete Dead Load Deflection Diagrams.  
 See Sheet 29 for Screed Plans and Screed Elevations.  
 See Sheet 30 for Screed Elevations.  
 See Sheet 31 for Bar Bending Details and Bill of Materials.

	RECOMMENDED FOR APPROVAL: <i>Michael Matel</i> 10/31/16 DESIGN ENGINEER DATE
	DESIGNED: C. OBRIEN DRAWN: D. SHEETZ
	CHECKED: B. WRIGHT CHECKED: M. MATEL

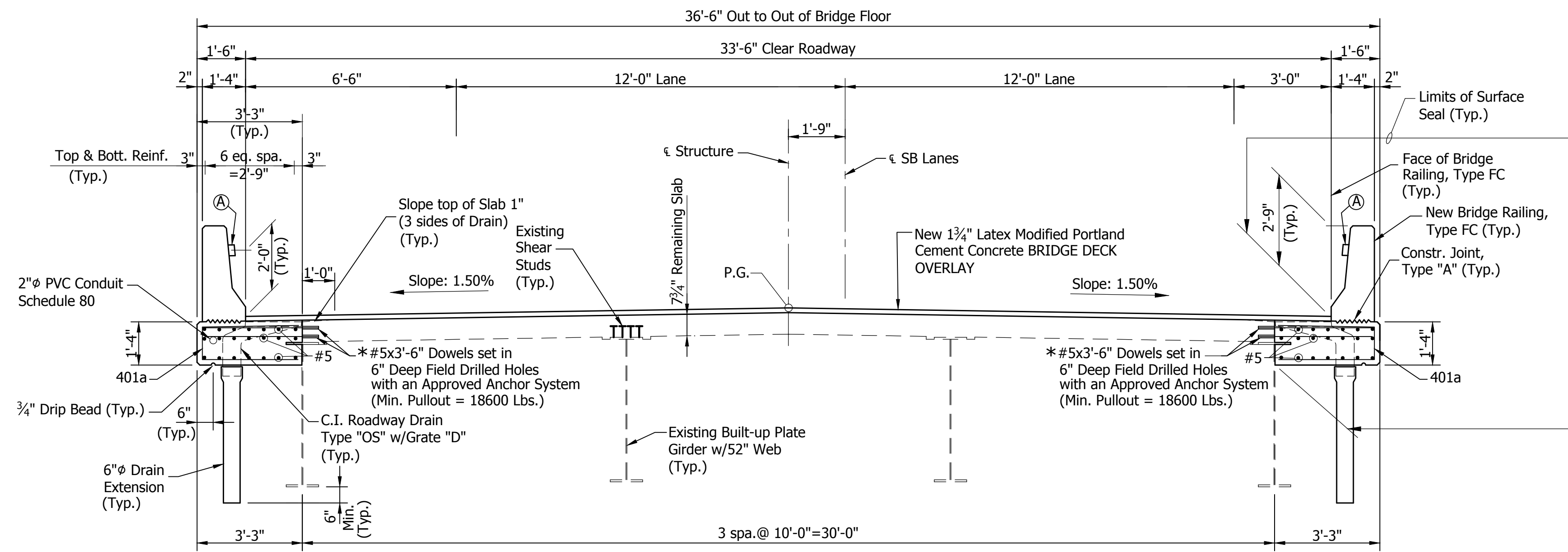
**INDIANA DEPARTMENT OF TRANSPORTATION**

**FLOOR DETAILS SOUTHBOUND STRUCTURE**

HORIZONTAL SCALE AS NOTED	BRIDGE FILE 041-82-4999JB
VERTICAL SCALE AS NOTED	DESIGNATION 0200635
SURVEY BOOK	SHEET 26 OF 33
CONTRACT B-33539	PROJECT 0200635

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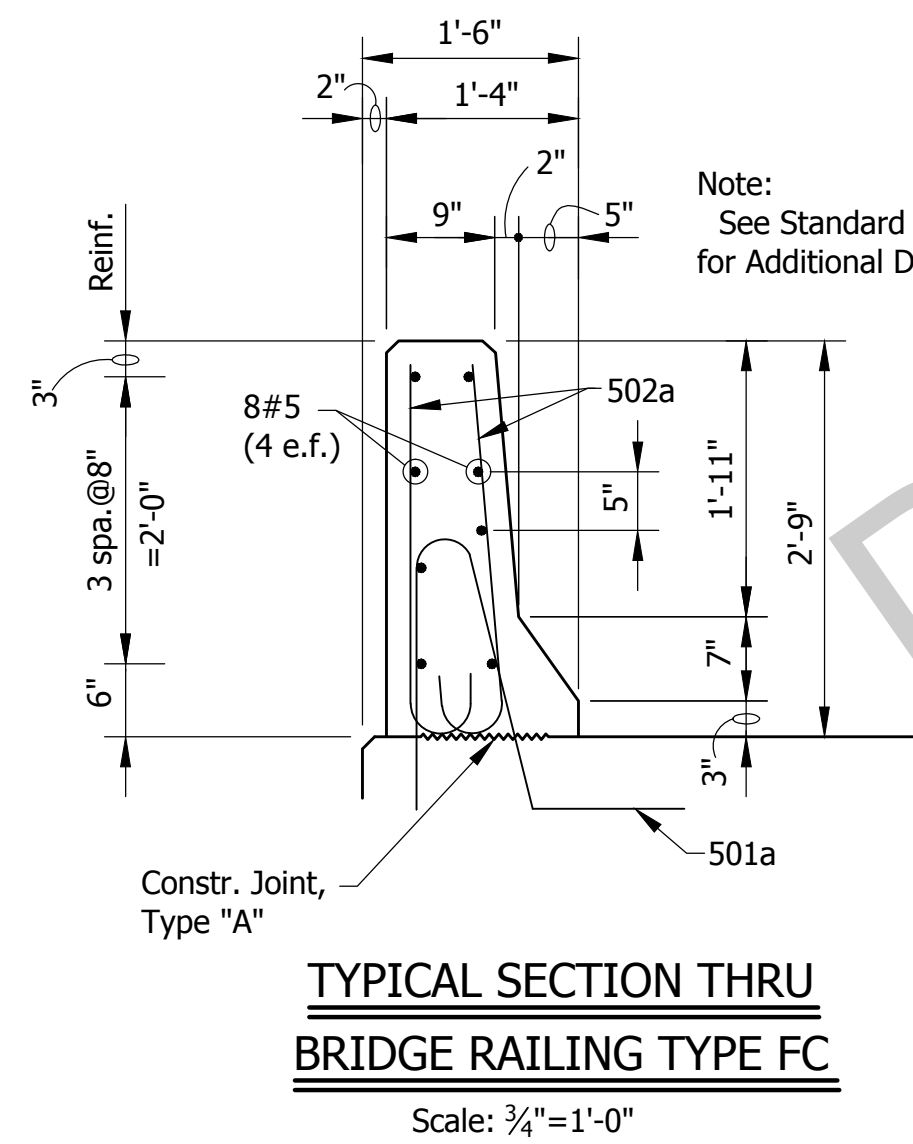
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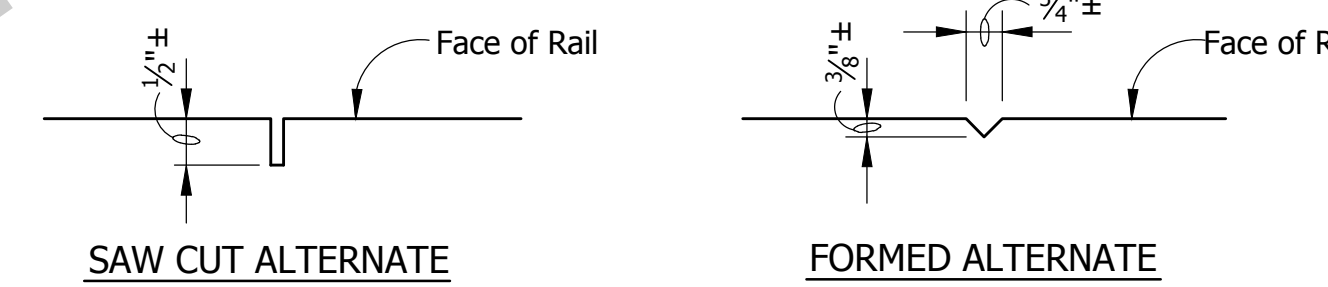
**SECTION "A-A"**  
**SPANS "D" THRU "P"**  
**PORTIONS OF SPANS "C" AND "Q"**  
 Scale: 3/8"=1'-0"

\* Note: As an alternate, clean and straighten exposed existing transverse reinforcing in lieu of field drilled holes and dowels.

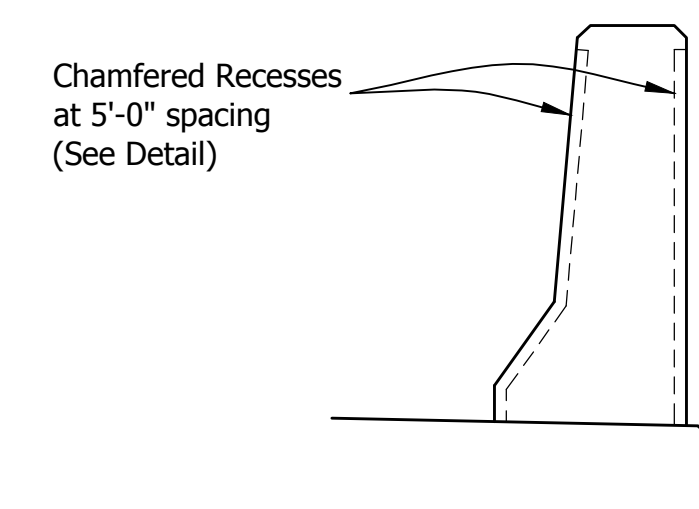
(A) Barrier Delineators @ 40'-0" Max. Spacing



**TYPICAL SECTION THRU BRIDGE RAILING TYPE FC**  
 Scale: 3/4"=1'-0"



**RECESS DETAILS**  
 Not to Scale



**TYPICAL RAIL SECTION**  
 Not to Scale

**FLOOR NOTES**

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

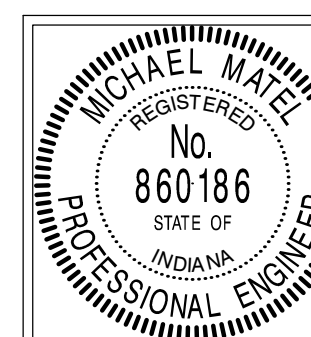
Suitable restraint shall be provided to prevent the rotation of the outside beams from construction loads such as finishing machines, forms, etc.

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

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

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

NOTE  
 See Sheet 31 for Bar Bending Details and Bill of Materials.



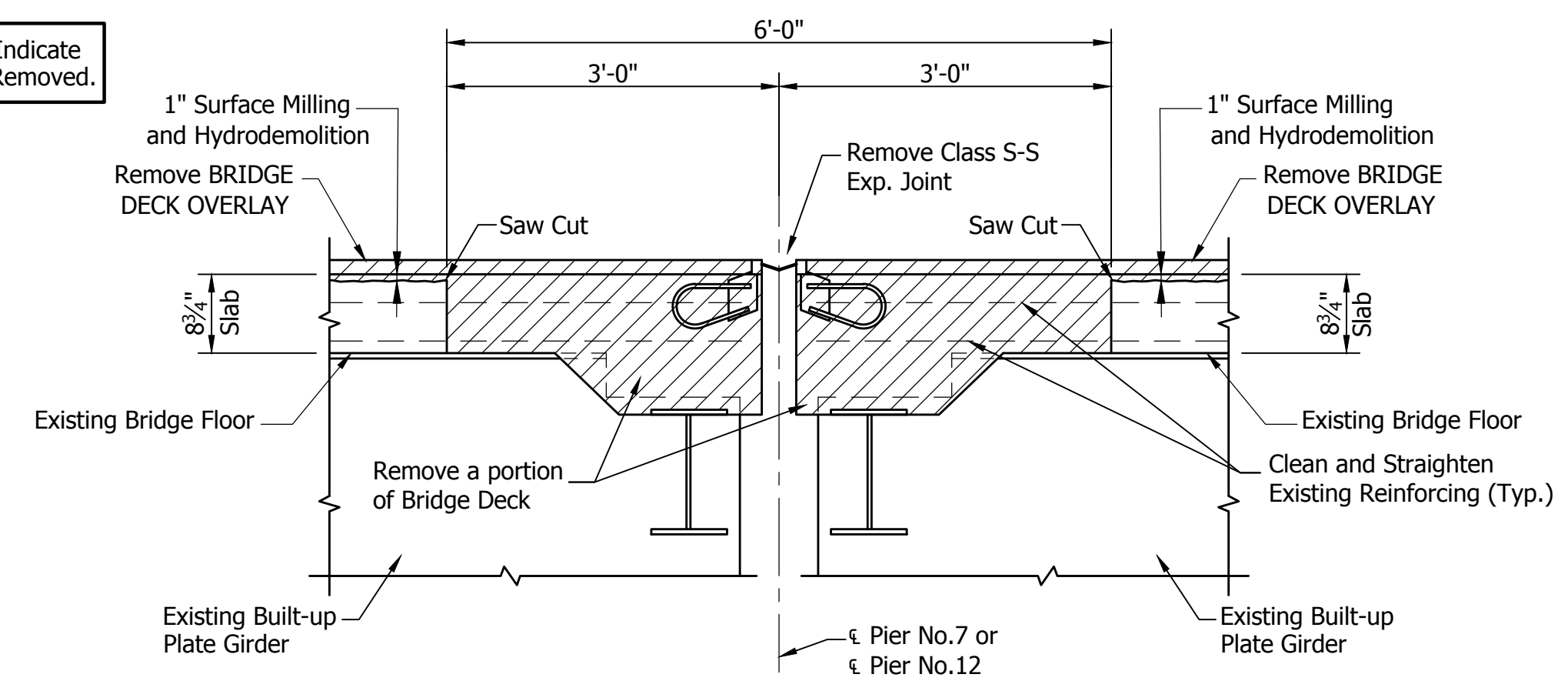
RECOMMENDED FOR APPROVAL: *Michael M. Matel* 10/31/16  
 DESIGN ENGINEER DATE  
 DESIGNED: C. O'BRIEN DRAWN: D. SHEETZ  
 CHECKED: B. WRIGHT CHECKED: M. MATEL

INDIANA DEPARTMENT OF TRANSPORTATION  
**FLOOR DETAILS**  
**SOUTHBOUND STRUCTURE**

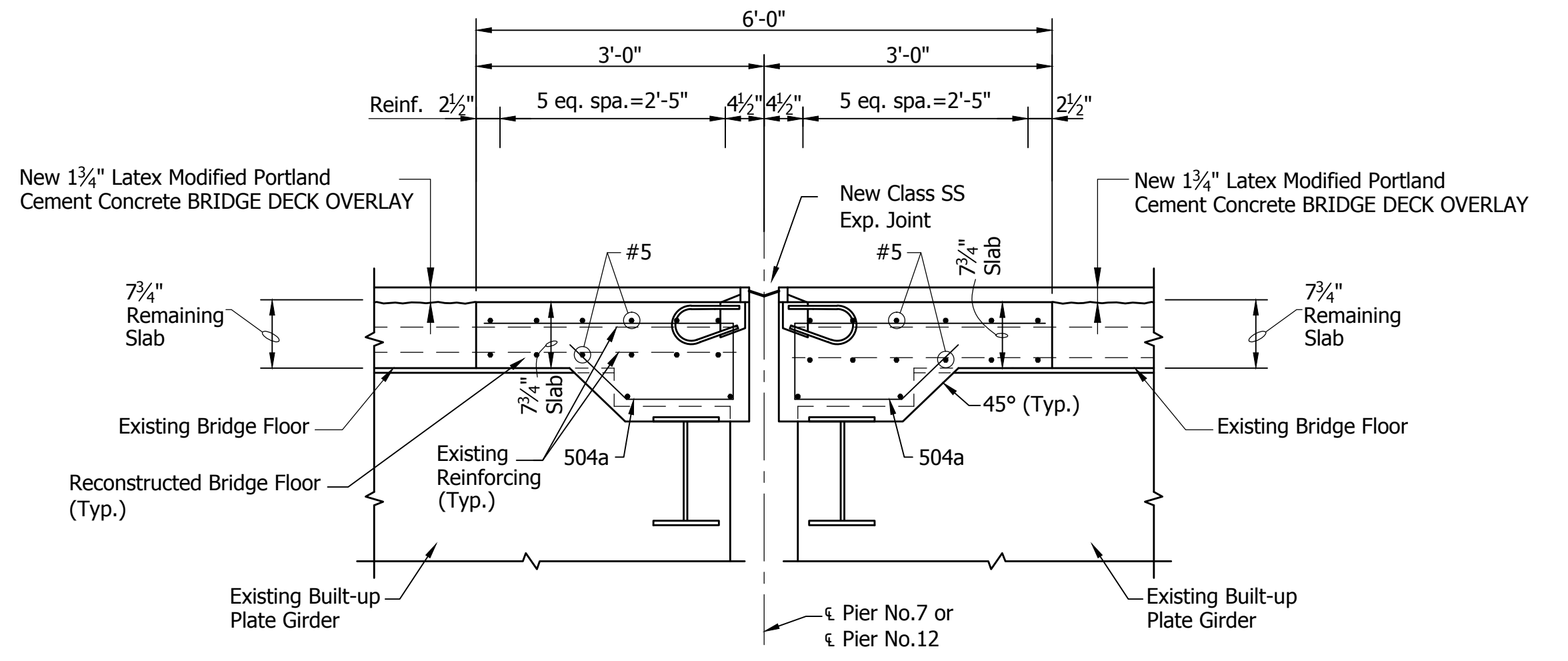
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VERTICAL SCALE	DESIGNATION
AS NOTED	0200635
SURVEY BOOK	SHEET
	27 OF 33
CONTRACT	PROJECT
B-33539	0200635

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 BPS NO.

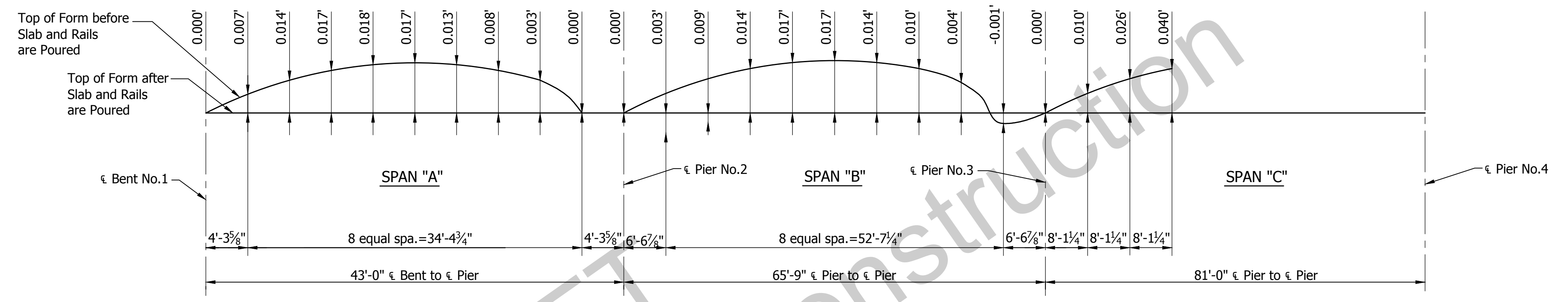
Note: Hatched Areas Indicate Portions to be Removed.



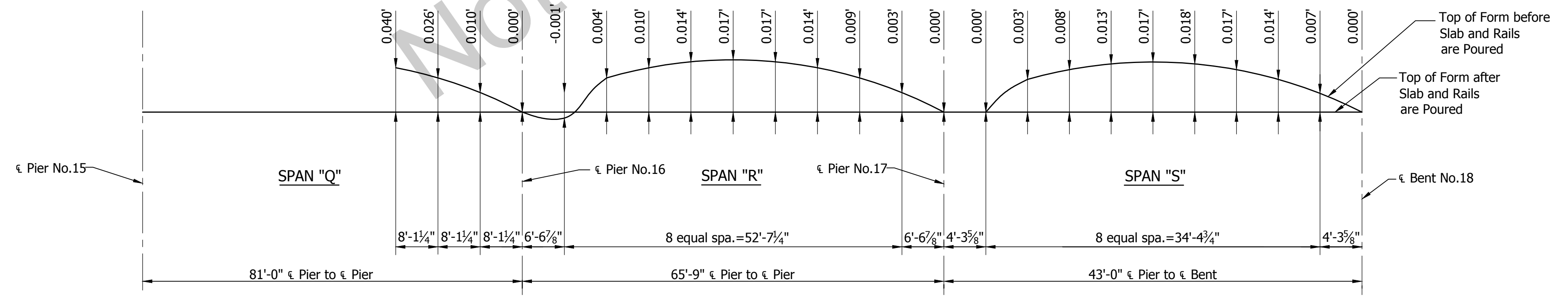
**SECTION AT PIER NO.7 OR NO.12**  
**(SHOWING REMOVALS)**  
Scale: 3/4"=1'-0"



**SECTION AT PIER NO.7 OR NO.12**  
**(SHOWING RECONSTRUCTION)**  
Scale: 3/4"=1'-0"



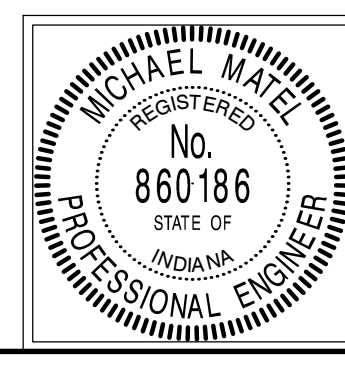
**CONCRETE DEAD LOAD DEFLECTION DIAGRAM**  
**SPAN "A", SPAN "B" AND PARTIAL SPAN "C"**  
Not to Scale



**CONCRETE DEAD LOAD DEFLECTION DIAGRAM**  
**PARTIAL SPAN "Q", SPAN "R" AND SPAN "S"**  
Not to Scale

NOTE  
See Sheet 31 for Bar Bending Details and Bill of Materials.

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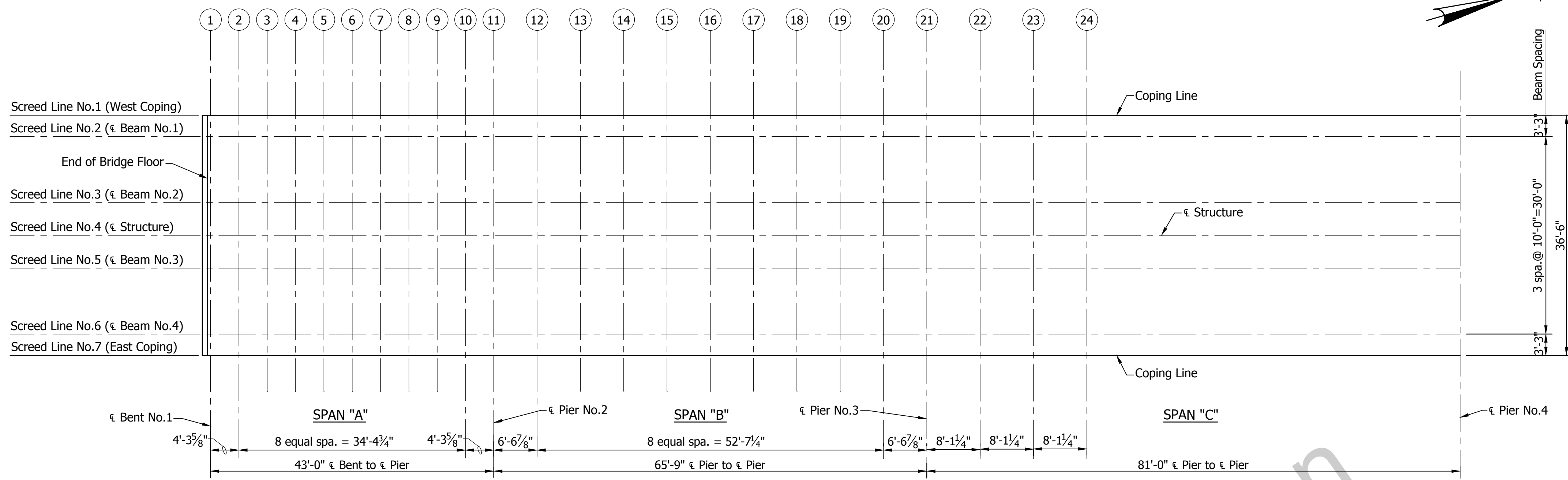
RECOMMENDED FOR APPROVAL: *Michael Matel* 10/31/16  
DESIGN ENGINEER DATE  
DESIGNED: C. OBRIEN DRAWN: D. SHEETZ  
CHECKED: B. WRIGHT CHECKED: M. MATEL

INDIANA  
DEPARTMENT OF TRANSPORTATION  
**FLOOR DETAILS**  
**SOUTHBOUND STRUCTURE**

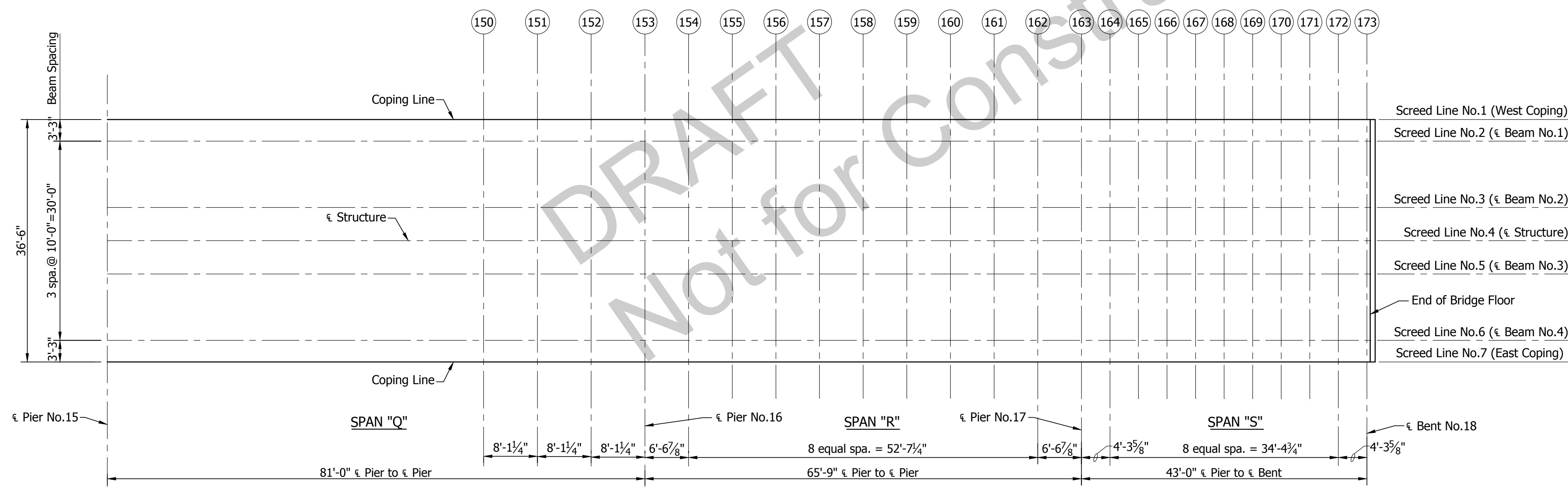
HORIZONTAL SCALE	AS NOTED	BRIDGE FILE	041-82-4999JB
VERTICAL SCALE	AS NOTED	DESIGNATION	0200635
SURVEY BOOK	28	SHEET	OF 33
CONTRACT	B-33539	PROJECT	0200635

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**SCREED PLAN**  
**SPANS "A", "B" AND "C"**  
 Scale:  $\frac{3}{32}$ "=1'-0"



**SCREED PLAN**  
**SPANS "Q", "R" AND "S"**  
 Scale:  $\frac{3}{32}$ "=1'-0"

**SCREED NOTES**

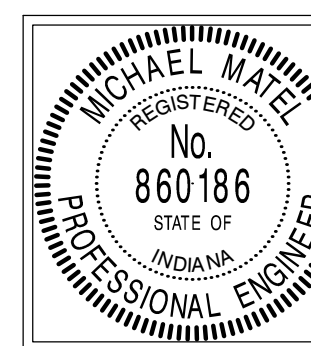
Screed elevations will be given for setting screeds and coping forms so that the slab and copings will be at the required elevations after all the concrete has been poured.

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.

**NOTE**  
 See Sheet 30 for Screed Elevations.



RECOMMENDED FOR APPROVAL: *Michael M. Matel* 10/31/16  
 DESIGN ENGINEER DATE

DESIGNED: C. OBRIEN DRAWN: D. SHEETZ  
 CHECKED: B. WRIGHT CHECKED: M. MATEL

**INDIANA**  
**DEPARTMENT OF TRANSPORTATION**

**FLOOR DETAILS**  
**SOUTHBOUND STRUCTURE**

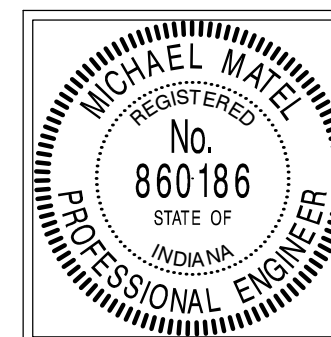
HORIZONTAL SCALE AS NOTED	BRIDGE FILE 041-82-4999JB
VERTICAL SCALE AS NOTED	DESIGNATION 0200635
SURVEY BOOK	SHEET 29 OF 33
CONTRACT B-33539	PROJECT 0200635

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BFS NO.

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SCREED LINE	Point:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
		1	Top of Coping Form	388.155	388.170	388.190	388.200	388.215	388.220	388.230	388.235	388.240	388.245	388.255	388.275	388.300	388.320	388.335	388.355	388.365	388.375	388.385	388.400	388.415	388.445	388.480
	Top of Exterior Beam																									
	Top of Beam to Top of Coping																									
2	Top of Screed	388.205	388.220	388.235	388.250	388.260	388.270	388.280	388.285	388.290	388.295	388.305	388.325	388.345	388.365	388.385	388.400	388.415	388.425	388.435	388.450	388.465	388.495	388.530	388.560	
	Top of Beam																									
	Top of Beam to Top of Screed																									
3	Top of Screed	388.355	388.370	388.385	388.400	388.410	388.420	388.430	388.435	388.440	388.445	388.455	388.475	388.495	388.515	388.535	388.550	388.565	388.575	388.585	388.600	388.615	388.645	388.680	388.710	
	Top of Beam																									
	Top of Beam to Top of Screed																									
4	Top of Screed	388.430	388.445	388.460	388.475	388.485	388.495	388.505	388.510	388.515	388.520	388.530	388.550	388.570	388.590	388.610	388.625	388.640	388.650	388.660	388.675	388.690	388.720	388.755	388.785	
	Top of Beam																									
	Top of Beam to Top of Screed																									
5	Top of Screed	388.355	388.370	388.385	388.400	388.410	388.420	388.430	388.435	388.440	388.445	388.455	388.475	388.495	388.515	388.535	388.550	388.565	388.575	388.585	388.600	388.615	388.645	388.680	388.710	
	Top of Beam																									
	Top of Beam to Top of Screed																									
6	Top of Screed	388.205	388.220	388.235	388.250	388.260	388.270	388.280	388.285	388.290	388.295	388.305	388.325	388.345	388.365	388.385	388.400	388.415	388.425	388.435	388.450	388.465	388.495	388.530	388.560	
	Top of Beam																									
	Top of Beam to Top of Screed																									
7	Top of Coping Form	388.155	388.170	388.190	388.200	388.215	388.220	388.230	388.235	388.240	388.245	388.255	388.275	388.300	388.320	388.335	388.355	388.365	388.375	388.385	388.400	388.415	388.445	388.480	388.515	
	Top of Exterior Beam																									
	Top of Beam to Top of Coping																									

SCREED LINE	Point:	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	
		1	Top of Coping Form	390.775	390.780	390.785	390.795	390.810	390.830	390.855	390.875	390.890	390.910	390.920	390.930	390.940	390.955	390.965	390.975	390.990	391.010	391.020	391.035	391.045	391.050	391.055
	Top of Exterior Beam																									
	Top of Beam to Top of Coping																									
2	Top of Screed	390.825	390.830	390.835	390.845	390.860	390.880	390.900	390.920	390.940	390.955	390.970	390.980	390.990	391.005	391.015	391.025	391.040	391.055	391.070	391.085	391.090	391.100	391.105	391.105	
	Top of Beam																									
	Top of Beam to Top of Screed																									
3	Top of Screed	390.975	390.980	390.985	390.995	391.010	391.030	391.050	391.070	391.090	391.105	391.120	391.130	391.140	391.155	391.165	391.175	391.190	391.205	391.220	391.235	391.240	391.250	391.255	391.255	
	Top of Beam																									
	Top of Beam to Top of Screed																									
4	Top of Screed	391.050	391.055	391.060	391.070	391.085	391.105	391.125	391.145	391.165	391.180	391.195	391.205	391.215	391.230	391.240	391.250	391.265	391.280	391.295	391.310	391.315	391.325	391.330	391.330	
	Top of Beam																									
	Top of Beam to Top of Screed																									
5	Top of Screed	390.975	390.980	390.985	390.995	391.010	391.030	391.050	391.070	391.090	391.105	391.120	391.130	391.140	391.155	391.165	391.175	391.190	391.205	391.220	391.235	391.240	391.250	391.255	391.255	
	Top of Beam																									
	Top of Beam to Top of Screed																									
6	Top of Screed	390.825	390.830	390.835	390.845	390.860	390.880	390.900	390.920	390.940	390.955	390.970	390.980	390.990	391.005	391.015	391.025	391.040	391.055	391.070	391.085	391.090	391.100	391.105	391.105	
	Top of Beam																									
	Top of Beam to Top of Screed																									
7	Top of Coping Form	390.775	390.780	390.785	390.795	390.810	390.830	390.855	390.875	390.890	390.910	390.920	390.930	390.940	390.955	390.965	390.975	390.990	391.010	391.020	391.035	391.045	391.050	391.055	391.055	
	Top of Exterior Beam																									
	Top of Beam to Top of Coping																									



RECOMMENDED FOR APPROVAL: *Michael M. Matel* 10/31/16  
 DESIGN ENGINEER DATE  
 DESIGNED: C. OBRIEN DRAWN: D. SHEETZ  
 CHECKED: B. WRIGHT CHECKED: M. MATEL

INDIANA DEPARTMENT OF TRANSPORTATION  
 FLOOR DETAILS  
 SOUTHBOUND STRUCTURE

HORIZONTAL SCALE	BRIDGE FILE
AS NOTED	041-82-4999JB
VERTICAL SCALE	DESIGNATION
AS NOTED	0200635
SURVEY BOOK	SHEET
	30 OF 33
CONTRACT	PROJECT
B-33539	0200635

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**BILL OF MATERIALS  
SUPERSTRUCTURE  
SPANS "A" THRU "S"  
SOUTHBOUND STRUCTURE**

**REINFORCING BARS**

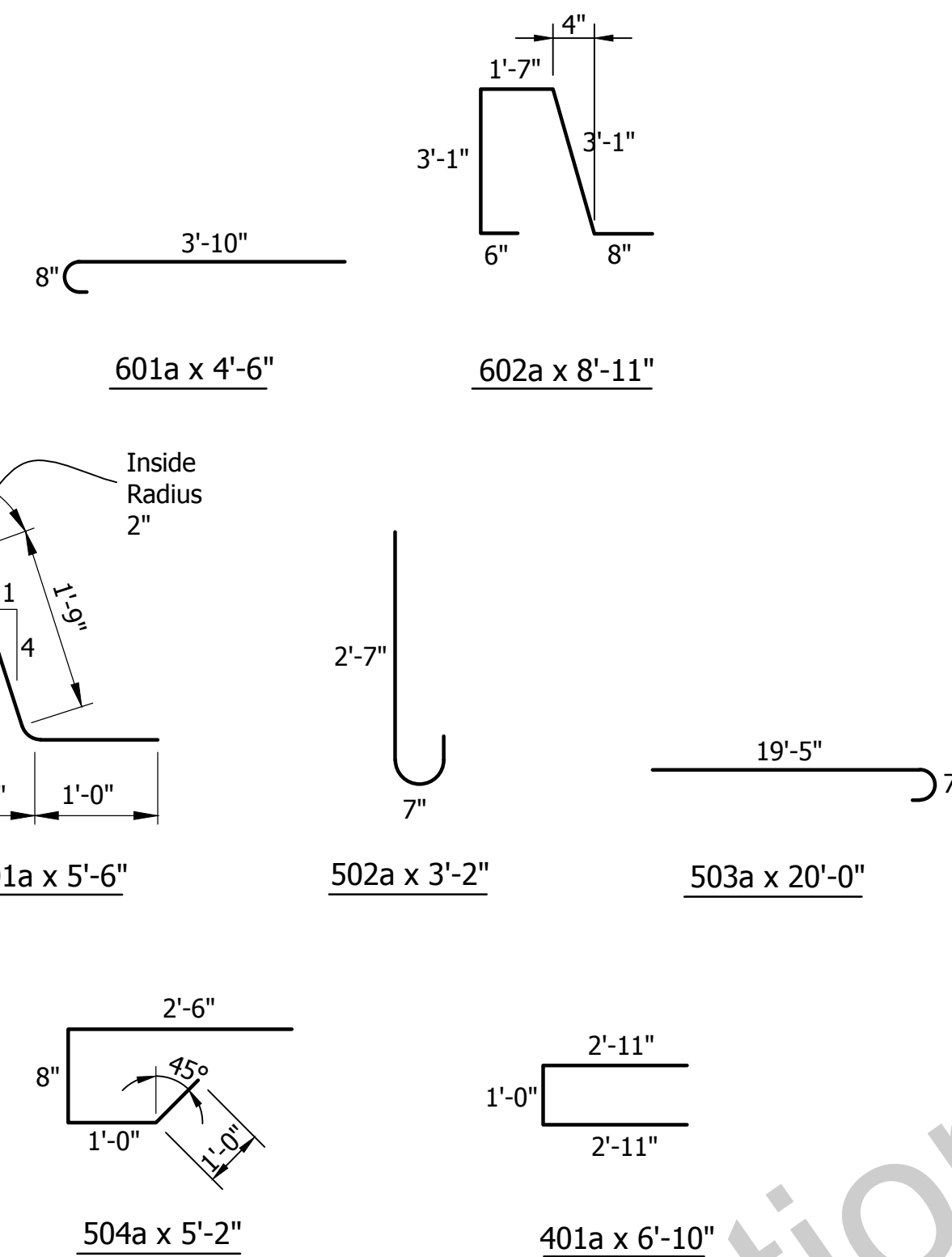
Mark or Size	No. of Bars	Length (Ft.)	Weight (Lbs.)
601a	24	4'-6"	
602a	16	8'-11"	
Total #6 (Epoxy Coated)			377
501a	3636	5'-6"	
502a	7272	3'-2"	
503a	1084	20'-0"	
504a	180	5'-2"	
#5	84	24'-6"	
#5	32	24'-3"	
#5	32	22'-6"	
#5	84	20'-9"	
#5	3638	20'-0"	
#5	598	19'-0"	
#5	32	18'-6"	
#5	84	15'-0"	
#5	7416	3'-6"	
#5	8	2'-0"	
#5	16	1'-6"	
Total #5 (Epoxy Coated)			190768
401a	4840	6'-10"	
#4	2444	20'-0"	
#4	144	17'-9"	
#4	144	11'-3"	
#4	308	10'-6"	
Total #4 (Epoxy Coated)			59695
Total Steel (Epoxy Coated)			250840

**CONCRETE**

Class "C" in Superstructure	672.7 Cys.
Class "C" in Railing	232.3 Cys.

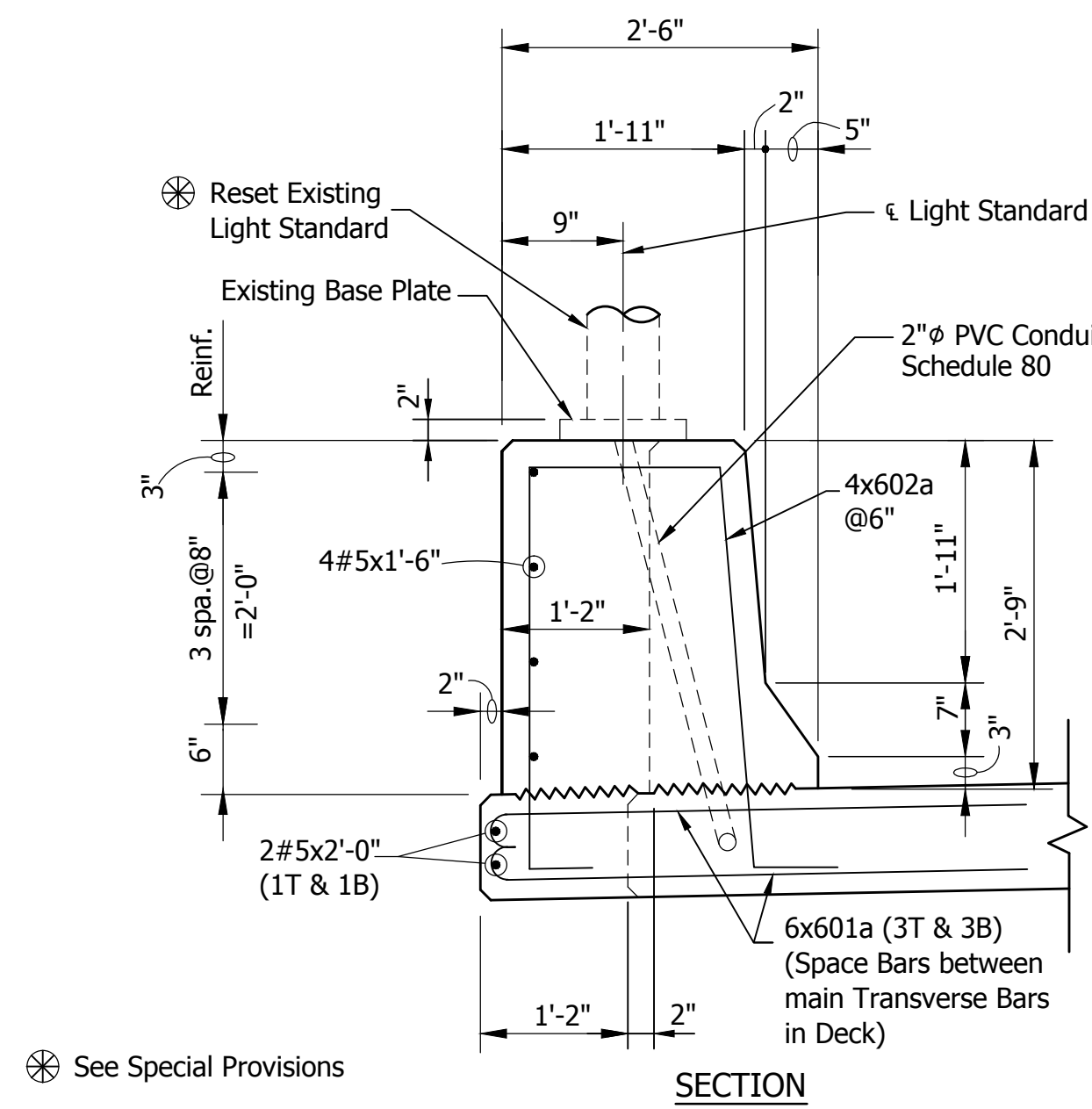
**MISCELLANEOUS**

Barrier Delineators	64 Each
Threaded Tie Bar Assemblies (#5x3'-0" each way) (Epoxy Coated)	38 Each
Surface Seal	31725 Sft.
Cast Iron Roadway Drains	
Type "OS-D"	52 Each
6" Drain Pipe Casting Extension	52 Each
Field Drilled Holes in Concrete	7416 Each
Class S-S Expansion Joint	74 Lft.
2" PVC Conduit Schedule 80	1400 Lft.
Bridge Deck Overlay	3498 Sys.
Surface Milling	6184 Sys.
Hydrodemolition	3092 Sys.
Additional Bridge Deck Overlay	17.0 Cys.



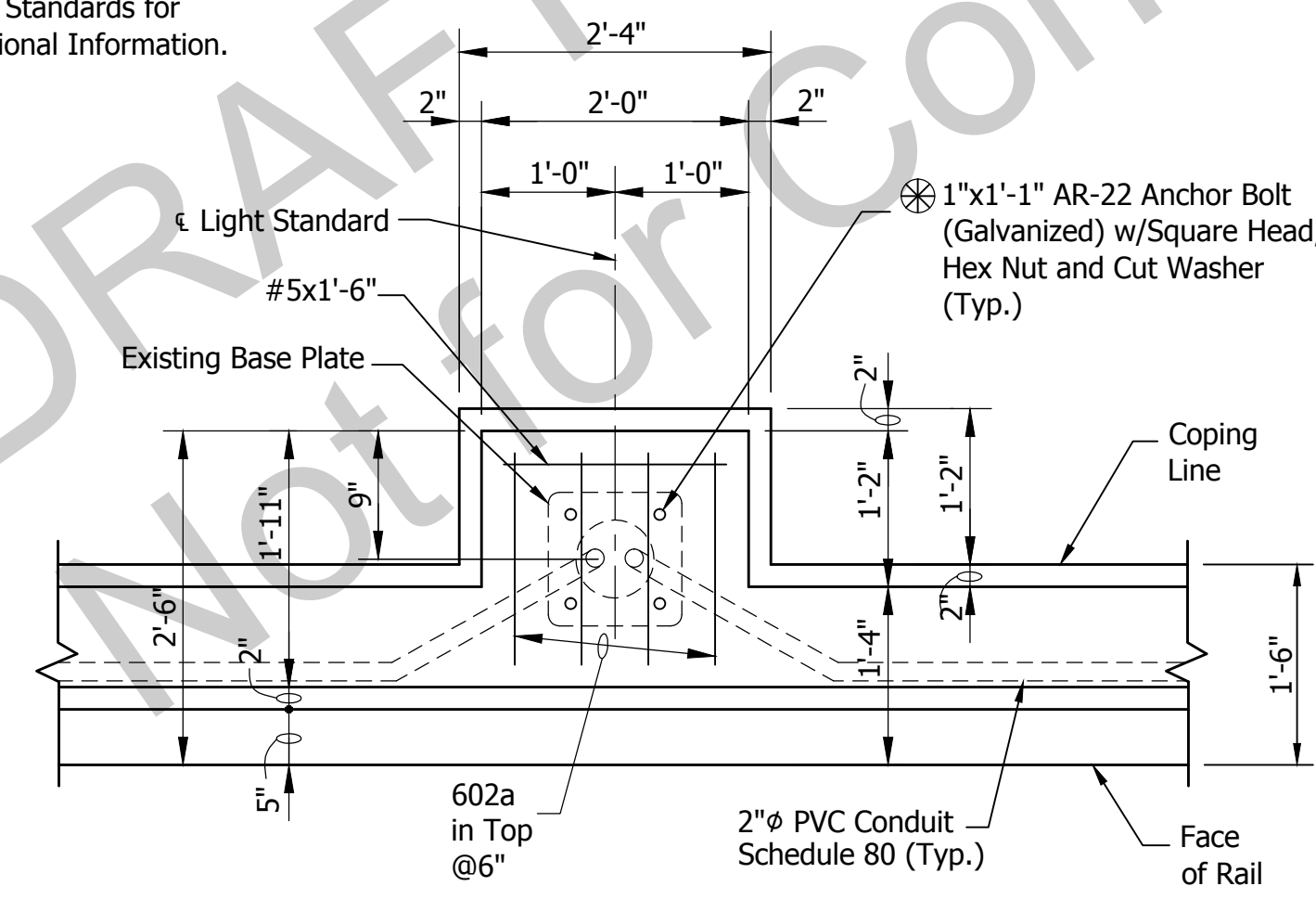
**BAR BENDING DETAILS**

Not to Scale



**SECTION**

Note:  
See Standards for Additional Information.



**PLAN**

**DETAILS AT LIGHT STANDARD**

Not to Scale

\* Note: As an alternate, clean and straighten exposed existing transverse reinforcing in lieu of field drilled holes and dowels.

- ⊕ A.S.T.M. A615, Grade 60
- ⊗ Includes Approach Slabs

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	RECOMMENDED FOR APPROVAL: <i>Michael M. Matel</i> 10/31/16 DESIGN ENGINEER DATE
	DESIGNED: C. OBRIEN DRAWN: D. SHEETZ
	CHECKED: B. WRIGHT CHECKED: M. MATEL

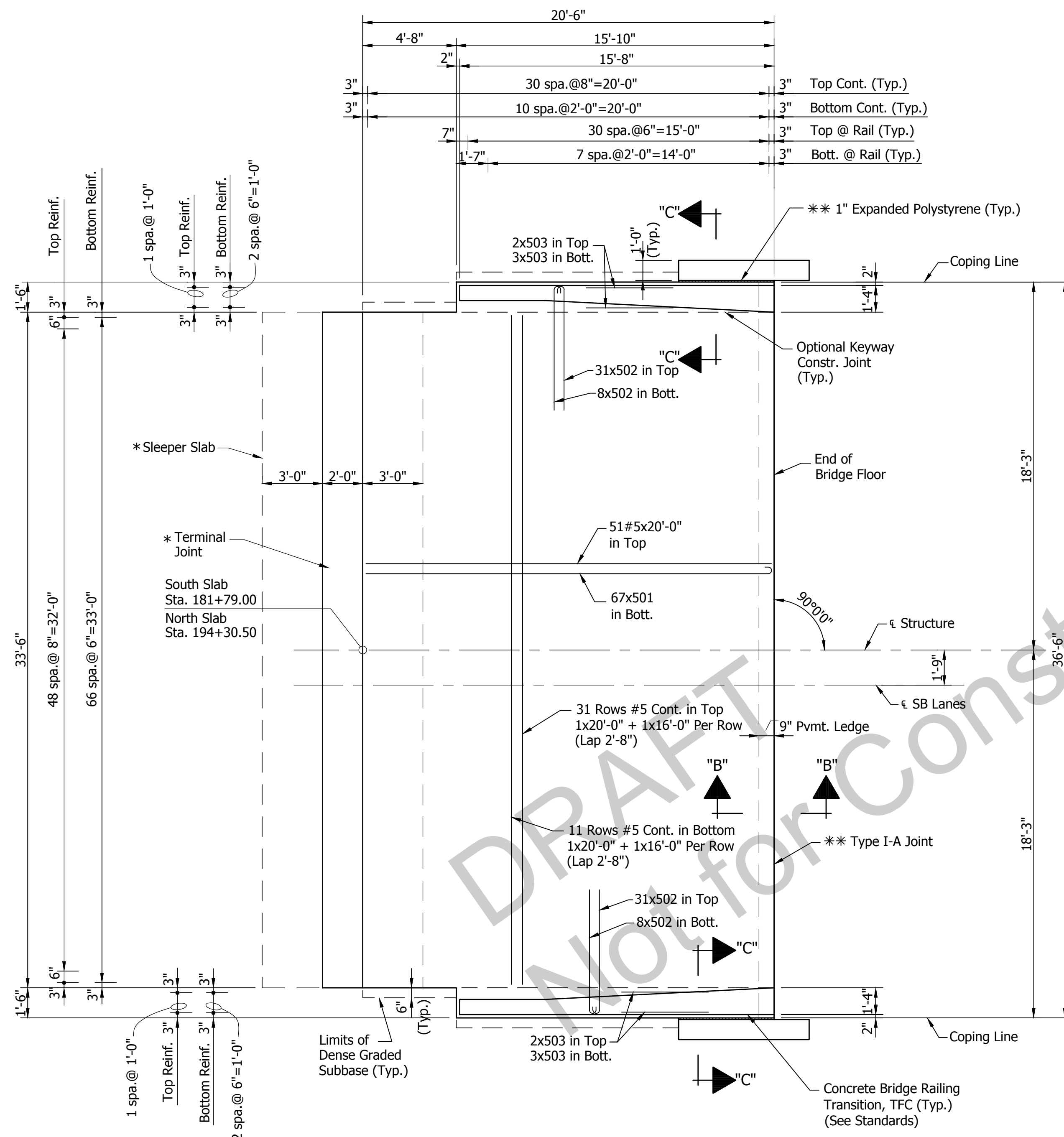
**INDIANA  
DEPARTMENT OF TRANSPORTATION**

**FLOOR DETAILS  
SOUTHBOUND STRUCTURE**

HORIZONTAL SCALE AS NOTED	BRIDGE FILE 041-82-4999JB
VERTICAL SCALE AS NOTED	DESIGNATION 0200635
SURVEY BOOK	SHEET 31 OF 33
CONTRACT B-33539	PROJECT 0200635

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BFS NO.

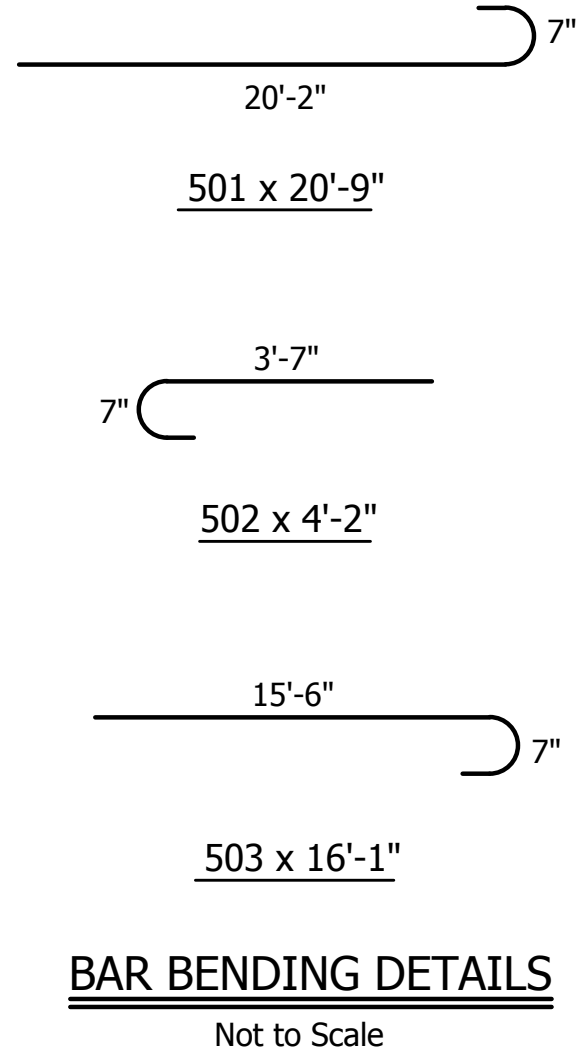
U:\5605\ProDevelopment\Design Drawings\EAGLE CREEK\5605B281SE.dwg Donald Sheets Plot: 11/17/2016 1:59 PM Saves: 10/17/2016 7:51 AM



**PLAN**  
**SOUTH APPROACH SLAB (SHOWN)**  
**NORTH APPROACH SLAB (OPP. HAND)**  
 Scale: 1/4"=1'-0"

\*\* See Special Provisions

\* Note: Sleeper Slab and Terminal Joint required at South Approach Slab only if Concrete Pavement Option is used.



**BILL OF MATERIALS**  
 SOUTH APPR. SLAB  
 NORTH APPR. SLAB  
 (SAME UNLESS NOTED)  
 SOUTHBOUND STRUCTURE

**REINFORCING BARS**

Mark or Size	No. of Bars	Length (Ft.)	Weight (Lbs.)
501	67	20'-9"	
502	78	4'-2"	
503	10	16'-1"	
#5	93	20'-0"	
#5	42	16'-0"	
Total Steel (Epoxy Coated)			4598

**CONCRETE**

Reinforced Concrete	
Bridge Approach (12")	82 Sys.

**MISCELLANEOUS**

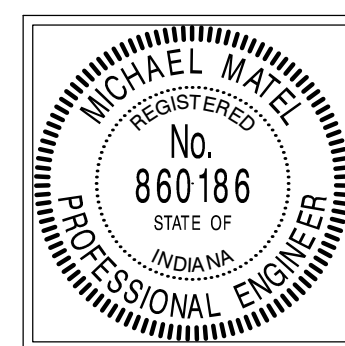
Dense Graded Subbase	14 Cys.
Concrete Bridge Railing	
Transition, TFC	2 Each
Surface Seal	705 Sft.
* Terminal Joint	34 Lft.

- ⊕ A.S.T.M. A615, Grade 60
- ⊖ Does not include Bridge Railing Transition
- \* South Approach Only (See Note)

**NOTES**  
 See Sheet 12 for Section "B-B".  
 See Sheet 13 for Section "C-C".

RECOMMENDED FOR APPROVAL: *Michael Matel* 10/31/16  
 DESIGN ENGINEER DATE

DESIGNED: D. SHEETZ DRAWN: D. SHEETZ  
 CHECKED: M. MATEL CHECKED: M. MATEL



INDIANA  
 DEPARTMENT OF TRANSPORTATION

**APPROACH SLAB DETAILS**  
**SOUTHBOUND STRUCTURE**

HORIZONTAL SCALE	BRIDGE FILE
AS NOTED	041-82-4999JB
VERTICAL SCALE	DESIGNATION
AS NOTED	0200635
SURVEY BOOK	SHEET
	32 OF 33
CONTRACT	PROJECT
B-33539	0200635

5605  
 BPS NO.



**STRUCTURE QUANTITIES**

ITEM	CONCRETE				DENSE GRADED SUBBASE	REINF. CONC. BRIDGE APPR. 12"	CONC. RAILING, FC	REINF. BARS (PLAIN)	REINF. BARS (EPOXY COATED)	EST. WEIGHT STR. STEEL	ADDITIONAL BRIDGE DECK OVERLAY	HYDRO-DEMOLITION	FIELD DRILLED HOLES	CAST IRON DRAIN TYPE "OS-D"	6"Ø DRAIN PIPE EXTENSION	BRIDGE DECK OVERLAY	SURFACE MILLING	EST. AREA SURFACE SEAL	CONCRETE BRIDGE RAILING TRANSITION TFC	FIELD DRILL HOLES IN CONCRETE	2"Ø PVC CONDUIT SCHEDULE 80	GEOTEXTILE	AGGREGATE FOR END BENT BACKFILL	THREADED TIE BAR ASSEMBLIES (EPOXY COATED)	6"Ø END BENT DRAIN PIPE	BARRIER DELINEATORS	*TERMINAL JOINT	ELASTOMERIC BEARING ASSEMBLY	CLASS S-S EXPANSION JOINT	
	CLASS C IN SUPERSTR.	CLASS C IN SUBSTR.	CLASS B IN FOOTING	CLASS A IN SUBSTR.																										CYS.
<b>SUPERSTRUCTURE</b>																														
Spans "A" thru "S"	672.7						232.3		250840		17.0	3092		52	52	3498	6184	31725		⊕ 7416	1400			38		64				74
<b>SUBSTRUCTURE</b>																														
Bent No.1				13.9					4583											33		44	20		56					
Pier No.2				12.5				3769																						
Pier No.3				0.9				125												24									4	
Pier No.7				15.1					4893																				8	
Pier No.12				15.1					4893																				8	
Pier No.16				0.9				125												24									4	
Pier No.17				12.5				3769																						
Bent No.18				13.9					4583											33		44	20		56					
<b>APPROACH SLABS</b>																														
South					14	82			4598									705	2											34
North					14	82			4598									705	2											
<b>BARRIER RAIL TRANSITIONS</b>																														
South									1102																					
North									1102																					
<b>TOTALS</b>	<b>672.7</b>			<b>84.8</b>	<b>28</b>	<b>164</b>	<b>232.3</b>	<b>⊕ 7788</b>	<b>⊕ 281192</b>		<b>17.0</b>	<b>3092</b>		<b>52</b>	<b>52</b>	<b>3498</b>	<b>6184</b>	<b>33135</b>	<b>4</b>	<b>7530</b>	<b>1400</b>	<b>88</b>	<b>40</b>	<b>38</b>	<b>112</b>	<b>64</b>	<b>34</b>	<b>24</b>	<b>74</b>	

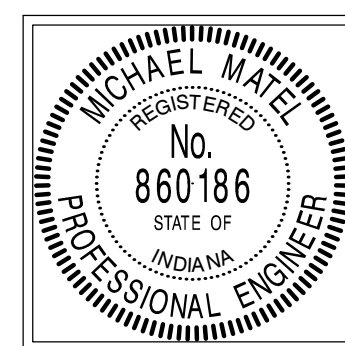
⊕ A.S.T.M. A615, Grade 60

\* Note: Sleeper Slab and Terminal Joint required at South Approach Slab only if Concrete Pavement Option is used.

⊕ Note: As an alternate, clean and straighten exposed existing transverse reinforcing in lieu of field drilled holes and dowels.

DRAFT  
Not for Construction

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RECOMMENDED FOR APPROVAL: Michael Matel 10/31/16  
DESIGN ENGINEER DATE

DESIGNED: D. SHEETZ DRAWN: D. SHEETZ  
CHECKED: M. MATEL CHECKED: M. MATEL

**INDIANA  
DEPARTMENT OF TRANSPORTATION**

**BRIDGE SUMMARY  
SOUTHBOUND STRUCTURE**

HORIZONTAL SCALE NONE	BRIDGE FILE 041-82-4999JB
VERTICAL SCALE NONE	DESIGNATION 0200635
SURVEY BOOK	SHEET 33 OF 33
CONTRACT B-33539	PROJECT 0200635

5605  
BFS NO.