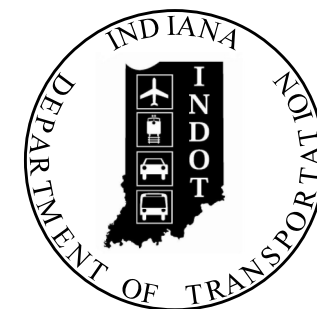


PROJECT	DESIGNATION
1172245	1172245
CONTRACT	BRIDGE FILE
B-36676	41-45-02073B

# INDIANA DEPARTMENT OF TRANSPORTATION



STRUCTURE	TYPE	SPAN AND SKEW	OVER	STATION
41-45-02073B	CONTINUOUS COMPOSITE STEEL BEAM BRIDGE	SEE GENERAL PLAN	IHB R.R. AND 4 STREETS	171+62.98 "PR-C"

TRAFFIC DATA		
A.A.D.T. (2018)		23,550 V.P.D.
A.A.D.T. (2038)		27,740 V.P.D.
D.H.V. (2038)		2000 V.P.H.
DIRECTIONAL DISTRIBUTION		52 %
TRUCKS		5 % A.A.D.T. 3 % D.H.V.
DESIGN DATA		
DESIGN SPEED		35 M.P.H.
PROJECT DESIGN CRITERIA		3R (NON-FREEWAY)
FUNCTIONAL CLASSIFICATION		PRINCIPAL ARTERIAL
RURAL/URBAN		URBAN (BUILT-UP)
TERRAIN		LEVEL
ACCESS CONTROL		NONE

## BRIDGE REHABILITATION PLANS FOR SPANS OVER 20 FEET

ROUTE: US 41 AT: RP 273+53

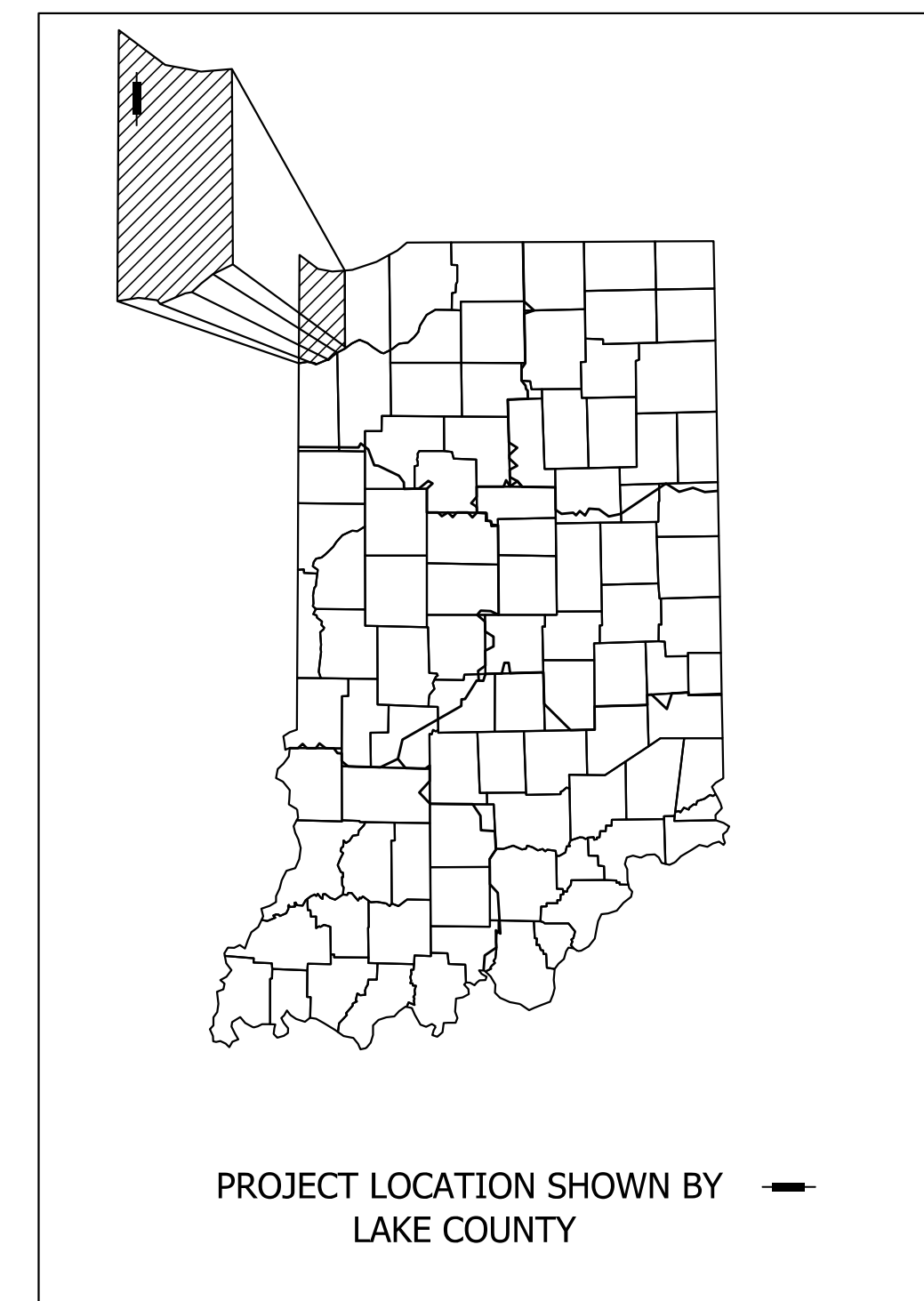
PROJECT NO. 1172245 P.E. R/W  
1172245 CONST.

NO ADDITIONAL RIGHT-OF-WAY REQUIRED FOR THIS PROJECT

BRIDGE REHABILITATION AND DECK REPLACEMENT ON US 41 OVER IHB RAILROAD AND 4 STREETS. LOCATED APPROXIMATELY 2.94 MILES NORTH OF I-80 IN SECTION 31, T-37-N, R-9-W AND SECTION 36, T-37-N, R-10-W, NORTH TOWNSHIP, LAKE COUNTY, INDIANA.

### KIN DESIGNATION NUMBERS

DES. NO.	DESCRIPTION
1172245	US 41 Bridge over Conrail, IHB RR, and 4 other streets., 1.95 mi S of I-90 - Bridge Deck Replacement
1298397	US 12 Bridge over EJ&E RR, Conrail RR, & Carey St., 1.33 mi. W of SR 912 - Bridge Rehabilitation
1298541	SR 912 Bridge over Guthrie St., 0.32 mi. W of US 12 - Bridge Deck Replacement
1298543	SR 912 Bridge over US 12/Industrial Highway - Superstructure Replacement
1298544	SR 912 Ramp SSE over SR 912 and US 12 WB Ramp - Superstructure Replacement (Lead Project)
1500081	US 41 Bridge replacement over GTW RR - Bridge Replacement / Roadway Reconstruction



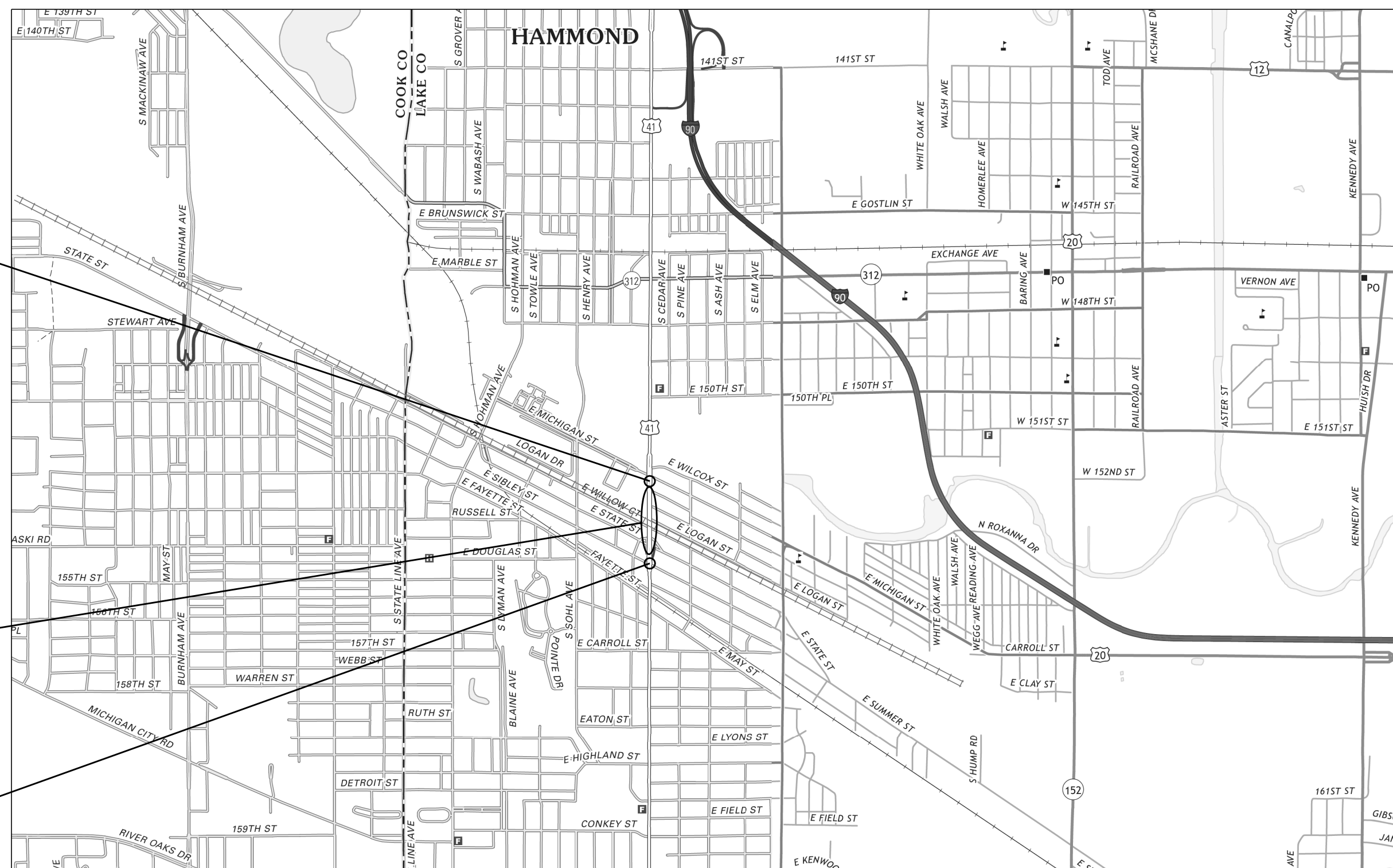
LATITUDE: 41° 37' 0" N LONGITUDE: 87° 30' 32" W

BRIDGE LENGTH:	0.170	MI.
ROADWAY LENGTH:	0.098	MI.
TOTAL LENGTH:	0.268	MI.
MAX. GRADE:	6.00	%

END CONSTRUCTION DES. NO. 1172245  
STA. 178+70.00 "PR-C"

STR. NO. 41-45-02073B  
DES. NO. 1172245

BEGIN CONSTRUCTION DES. NO. 1172245  
STA. 164+54.00 "PR-C"



SCALE: 1" = 2000'

LOCATION MAP

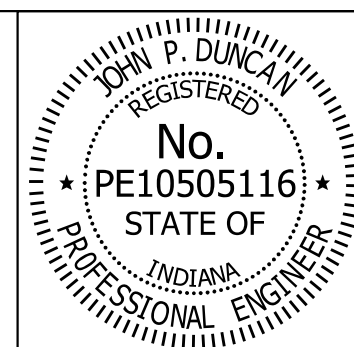
INDIANA DEPARTMENT OF TRANSPORTATION  
STANDARD SPECIFICATIONS DATED 2018  
TO BE USED WITH THESE PLANS



Michael Baker International, Inc.  
3815 River Crossing Parkway, Suite 20  
Indianapolis, IN 46240  
Tel: 317-663-8430 Fax: 317-663-8410  
www.mbakertnt.com



SJCA P.C.  
9102 North Meridian, Suite 200  
Indianapolis, IN 46260  
Tel: 317-566-0629 Fax: 317-566-4496



PLANS PREPARED BY: Michael Baker International, Inc. 317-663-8430 PHONE NUMBER  
CERTIFIED BY: J. Patrick Duncan 08/16/17 DATE  
APPROVED FOR LETTING: \_\_\_\_\_ INDIANA DEPARTMENT OF TRANSPORTATION DATE

BRIDGE FILE	
41-45-02073B	
DESIGNATION	
1172245	
SURVEY BOOK	SHEETS
CONTRACT	1 of 86
B-36676	PROJECT
	1172245

UTILITIES
<p>AT&amp;T DISTRIBUTION 302 S. EAST ST. CROWN POINT, IN 46307 ANGELO LAMANTIA PHONE: 219-662-4418</p>
<p>HAMMOND WATER DEPARTMENT 6505 COLUMBIA AVE. HAMMOND, IN 46320 BRUCE LONG PHONE: 219-853-6429</p>
<p>NIPSCO FRANK JANOSI 1460 E. 15th AVE. GARY, IN 46402</p>
<p>WIDE OPEN WEST (WOW) MARVIN HAZLEY 6600 HANK AVE. SHELburn, IN 47715 PHONE: 630-631-2594 MARVIN.HAZLEY@WOWINC.COM</p>
<p>COMCAST NORTH 1920 E. MISHAWAKA AVE. MISHAWAKA, IN 46545 LARRY SMITH PHONE: 847-789-0269</p>
<p>HAMMOND SANITARY DISTRICT 5143 COLUMBIA AVE. HAMMOND, IN 46320 JACK SMITH PHONE: 219-853-6412</p>
<p>HAMMOND STREET LIGHTING DEPARTMENT 5925 CALUMET AVE. HAMMOND, IN 46320 FRANK SARANG PHONE: 219-718-3067</p>

GENERAL NOTES	
	ALL EARTH SHOULDERS, MEDIAN AREAS, AND CUT AND FILL SLOPES SHALL BE PLAIN OR MULCH SEEDED EXCEPT WHERE SODDING IS SPECIFIED.
	THE FINAL CROSS SECTIONS OF THE GRADING CONTRACT WILL BE THE ORIGINAL CROSS SECTIONS OF THE PAVING CONTRACT. HOWEVER, PARTIAL OR COMPLETE CROSS SECTIONS SHALL BE TAKEN IF NECESSARY TO DETERMINE THE ACTUAL EXCAVATION QUANTITIES.
	THE PAPER RELOCATION WILL BE CROSS SECTIONED BY THE ENGINEER BEFORE CONSTRUCTION.
	THE EXISTING ASPHALT PAVEMENT LOCATED OUTSIDE THE CONSTRUCTION LIMITS, BETWEEN STA. _____ AND _____, SHALL BE REMOVED AS DIRECTED.
	THE QUANTITY OF PEAT EXCAVATION SHOWN ON THE PLANS HAS BEEN ESTIMATED ON THE BASIS OF THEORETICAL CROSS SECTIONS BY USING TREATMENT OF EXISTING FILLS, TREATMENT BY REMOVAL, OR TREATMENT BY DISPLACEMENT, WHERE EACH TREATMENT APPLIES.
	ALL LIMITED ACCESS RIGHT-OF-WAY (L.A. R/W) IS TO BE FENCED WITH CHAIN LINK TYPE FENCE (CLTF) OR FARM FIELD TYPE FENCE (FFTF) WHERE SPECIFIED IN THE PLANS.
**	ALL COORDINATION WITH THE RAILROAD COMPANY SHALL BE IN ACCORDANCE WITH 107.09 OF THE STANDARD SPECIFICATIONS. TEMPORARY CLEARANCES FOR BRIDGE FALSEWORK ADJACENT TO THE RAILROAD TRACKS SHALL BE IN ACCORDANCE WITH THE CURRENT EDITION OF THE AREMA MANUAL FOR RAILWAY ENGINEERING AND 702.14 OF THE STANDARD SPECIFICATIONS.
**	DURING DEMOLITION AND REMOVAL OF PORTIONS OF THE PRESENT STRUCTURE, ADJACENT BUILDINGS, ROADWAYS, UTILITIES AND RAILROADS SHALL BE ADEQUATELY PROTECTED IN ACCORDANCE WITH 202 OF THE STANDARD SPECIFICATIONS.

\*\* REPRESENTS GENERAL NOTES REQUIRED

REVISIONS		
SHEET NO.	DATE	REVISED

INDEX	
SHEET NO.	DRAWING INDEX
1	TITLE
2	INDEX AND GENERAL NOTES
3-4	TYPICAL CROSS SECTION
5-20	MAINTENANCE OF TRAFFIC
21-22	CONSTRUCTION DETAILS
23	SPOT ELEVATON DETAILS
23-28	APPROACH WALL DETAILS
29-33	PAVEMENT MARKINGS
34-35	LIGHTING DETAILS
35-36	LAYOUT
37-41	GENERAL PLAN
42-46	REMOVAL SHEETS
47-49	ABUTMENT DETAILS
50-51	PIER DETAILS
52	BEARING DETAILS
53	BEAM DETAILS
54-60	SUPERSTRUCTURE DETAILS
61-62	DECK DRAIN DETAILS
63-65	BRIDGE RAIL DETAILS
66-69	SCREEDS
70-72	REINFORCED CONCRETE APPROACH DETAILS
73	BRIDGE SUMMARY
74	MISCELLANEOUS TABLES
75-77	STRUCTURE DATA TABLES
78-86	CROSS SECTIONS

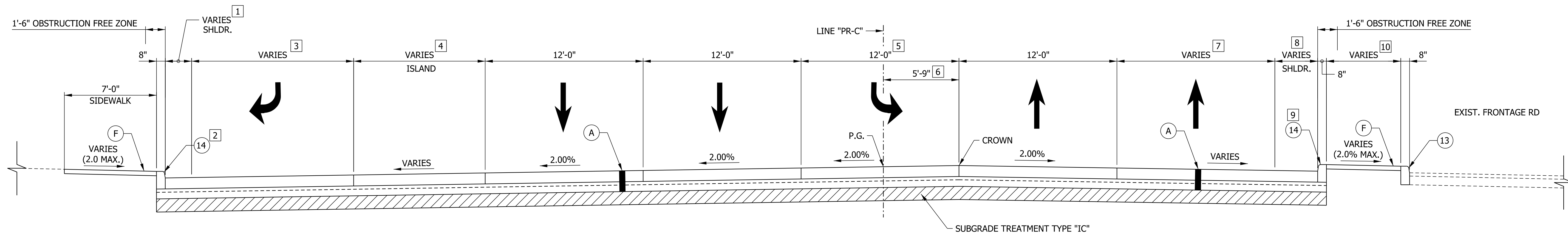


RECOMMENDED FOR APPROVAL	<i>J. Patrick Duncan</i>	08/16/17
	DESIGN ENGINEER	DATE
DESIGNED: DZ	DRAWN: JWM	
CHECKED: JPD	CHECKED: DZ	

INDIANA  
DEPARTMENT OF TRANSPORTATION

INDEX & GENERAL NOTES

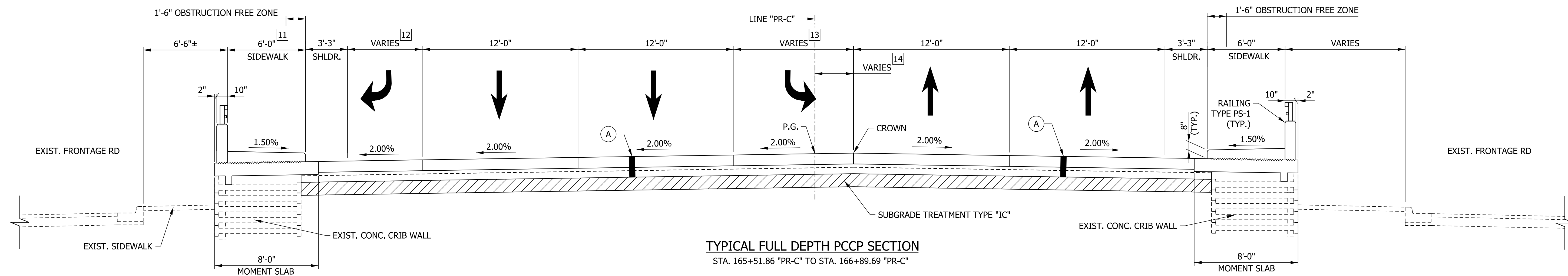
SCALE	BRIDGE FILE
N/A	41-45-02073B
SCALE	DESIGNATION
N/A	1172245
SURVEY BOOK	SHEETS
	2 of 86
CONTRACT	PROJECT
B-36676	1172245



- 1 1.0' FROM STA. 164+73.79 TO STA. 165+01.36  
VARIES FROM 1.0' @ STA. 165+01.36 TO 2.5' @ STA. 165+51.86
- 2 BEGIN CURB TYPE "C" @ STA. 164+73.79
- 3 VARIES FROM 28.1' @ STA. 164+73.79 TO 12.3' @ STA. 165+01.36  
12.3' FROM STA. 165+01.36 TO STA. 165+51.86
- 4 VARIES FROM 13.0' @ STA. 164+60.75 TO 0' @ STA. 165+49.56
- 5 12.0' @ STA. 164+56.00 TO STA. 165+49.30  
VARIES FROM 12.0' @ STA. 165+49.30 TO 11.8' @ STA. 165+51.86
- 6 5.75' @ STA. 164+56.00 TO STA. 165+49.30  
VARIES FROM 5.75' @ STA. 165+49.30 TO 5.6' @ STA. 165+51.86

**TYPICAL FULL DEPTH PCCP SECTION**  
STA. 164+56.00 "PR-C" TO STA. 165+51.86 "PR-C"

- 7 19.5' FROM STA. 164+56.00 TO STA. 164+85.18  
VARIES FROM 19.5' @ STA. 164+85.18 TO 18.2' @ STA. 164+87.26  
VARIES FROM 18.2' @ STA. 164+87.26 TO 12.0' @ STA. 165+51.86
- 8 0' FROM STA. 164+56.00 TO STA. 164+85.18  
VARIES FROM 0' @ STA. 164+85.18 TO 3.25' @ STA. 165+51.86
- 9 BEGIN CURB TYPE "C" @ STA. 164+85.18
- 10 0' FROM STA. 164+56.00 TO STA. 164+87.26  
VARIES FROM 3.6' @ STA. 164+87.26 TO 22.0' @ STA. 165+51.86

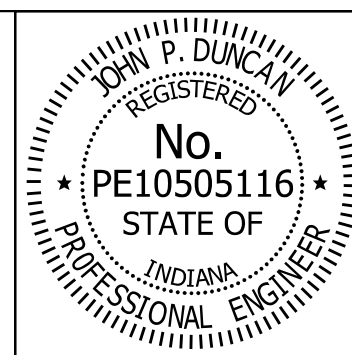


- 11 BEGIN MOMENT SLAB W/ SIDEWALK OVER EXISTING CRIB WALL STA. 165+88.78  
INTERGRAL CONC. CURB, TYPE "C" REQ'D. FROM STA. 165+51.86 TO STA. 165+88.78  
(FOR MORE DETAIL SEE CONSTRUCTION DETAILS)
- 12 VARIES FROM 12.3' @ STA. 165+51.86 TO 8.7' @ STA. 165+88.78  
VARIES FROM 8.7' @ STA. 165+88.78 TO 2.9' @ STA. 166+89.69
- 13 VARIES FROM 11.8' @ STA. 165+51.86 TO 0' @ STA. 166+89.14  
0' FROM STA. 166+89.14 TO STA. 166+89.69
- 14 VARIES FROM 5.6' @ STA. 165+51.86 TO 0' @ STA. 166+89.14  
0' FROM STA. 166+89.14 TO STA. 166+89.69

**TYPICAL FULL DEPTH PCCP SECTION**  
STA. 165+51.86 "PR-C" TO STA. 166+89.69 "PR-C"

**LEGEND**

- (A) PLAIN JOINTED PCCP, 10" WITH D-1 JOINTS SPACED AT NO MORE THAN 15' WITH 1.5" DIAMETER DOWEL BARS SPACED AT 12" ON SUBBASE FOR PCCP
- (F) CONCRETE SIDEWALK, 4"
- (R) 165 #/SYS QC/QA HMA, 3, 70, SURFACE, 9.5 mm ON VARIABLE DEPTH MILLING (1.5" MAX.)
- (13) CURB, CONCRETE
- (14) INTEGRAL CONCRETE CURB
- (15) COMBINED CONCRETE CURB & GUTTER



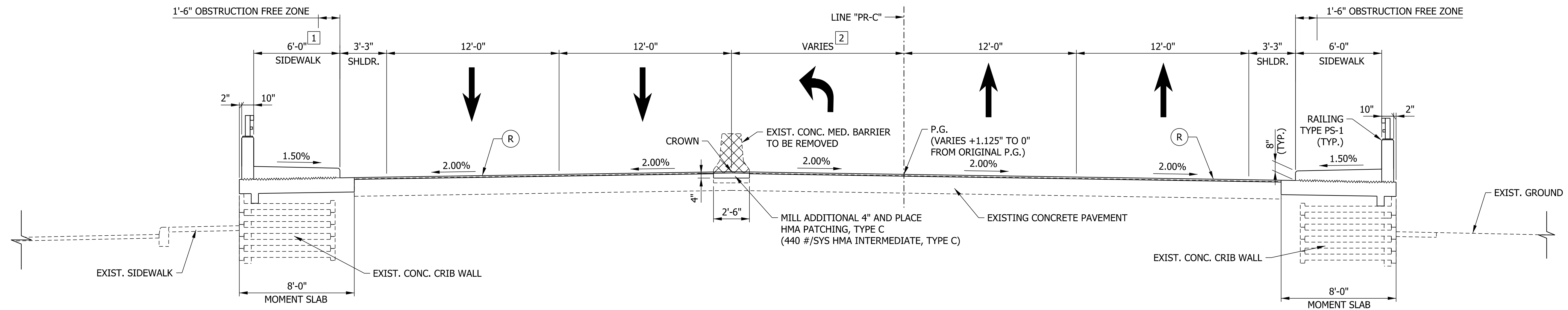
RECOMMENDED FOR APPROVAL *J. Patrick Duncan* 08/16/17  
DESIGN ENGINEER DATE

DESIGNED: MAE DRAWN: JWM  
CHECKED: LDW CHECKED: MAE

INDIANA  
DEPARTMENT OF TRANSPORTATION

TYPICAL CROSS SECTIONS

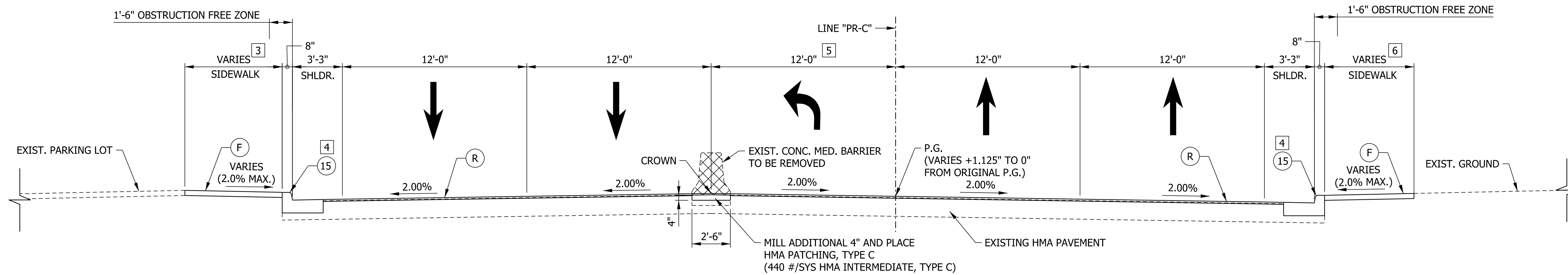
HORIZONTAL SCALE	BRIDGE FILE
1/4" = 1'-0"	41-45-02073B
VERTICAL SCALE	DESIGNATION
1/4" = 1'-0"	1172245
SURVEY BOOK	SHEETS
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CONTRACT	PROJECT
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**TYPICAL VARIABLE DEPTH MILL AND OVERLAY SECTION**

STA. 176+36.27 "PR-C" TO STA. 178+17.72 "PR-C"

- 1 END MOMENT SLAB W/ SIDEWALK OVER EXIST. CONC. CRIB WALL @ STA. 177+98.63 BEGIN COMBINED CONC. CURB & GUTTER, TYPE C W/ SIDEWALK (FOR MORE DETAIL SEE CONSTRUCTION DETAILS)
- 2 0' FROM STA. 176+36.27 TO STA. 176+37.35 VARIES FROM 0' @ STA. 176+37.35 TO 11.5' @ STA. 178+17.72



**TYPICAL VARIABLE DEPTH MILL AND OVERLAY SECTION**

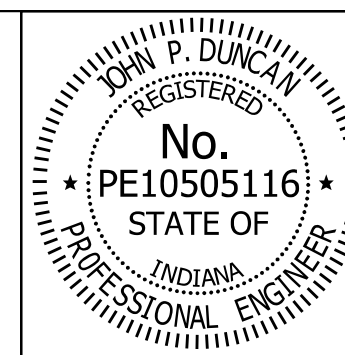
STA. 178+17.72 "PR-C" TO STA. 178+70.00 "PR-C"

- 3 VARIES FROM 12.3' @ STA. 177+98.63 TO 10.1' @ STA. 178+32.00 (FOR MORE DETAIL SEE CONSTRUCTION DETAILS)
- 4 END COMBINED CONCRETE CURB & GUTTER, TYPE "C" @ STA. 178+32.00
- 5 VARIES FROM 11.5' @ STA. 178+17.72 TO 12' @ STA. 178+26.09 12' FROM STA. 178+26.09 TO STA. 178+32.00

- 6 VARIES FROM 9.7' @ STA. 178+17.72 TO 9.1' @ STA. 178+32.00 (FOR MORE DETAIL SEE CONSTRUCTION DETAILS)

**LEGEND**

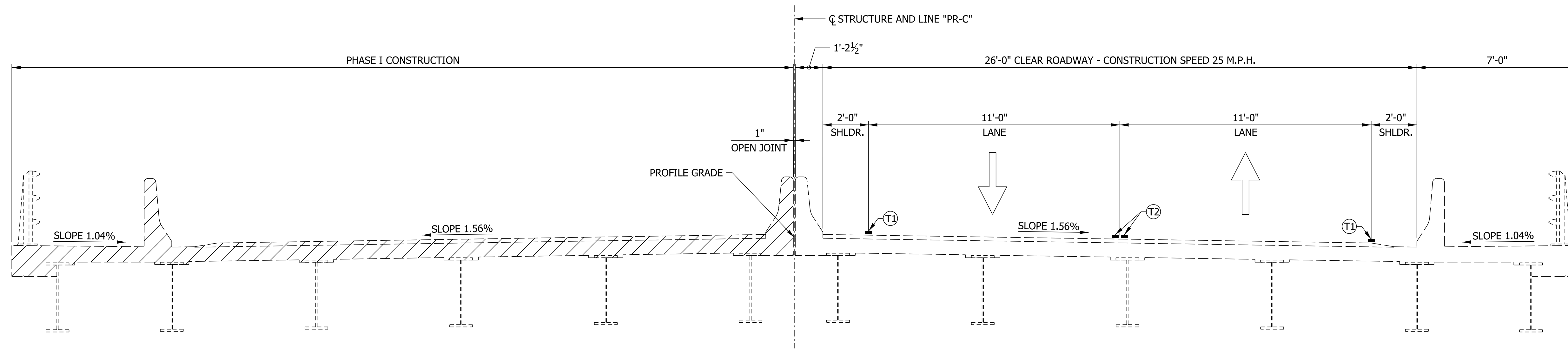
- (A) PLAIN JOINTED PCCP, 10" WITH D-1 JOINTS SPACED AT NO MORE THAN 15' WITH 1.5" DIAMETER DOWEL BARS SPACED AT 12" ON SUBBASE FOR PCCP
- (F) CONCRETE SIDEWALK, 4"
- (R) 165 #/SYS QC/QA HMA, 3, 70, SURFACE, 9.5 mm ON TRANSITION MILLING (1.5" MAX.)
- (14) INTEGRAL CONCRETE CURB
- (15) COMBINED CONCRETE CURB & GUTTER



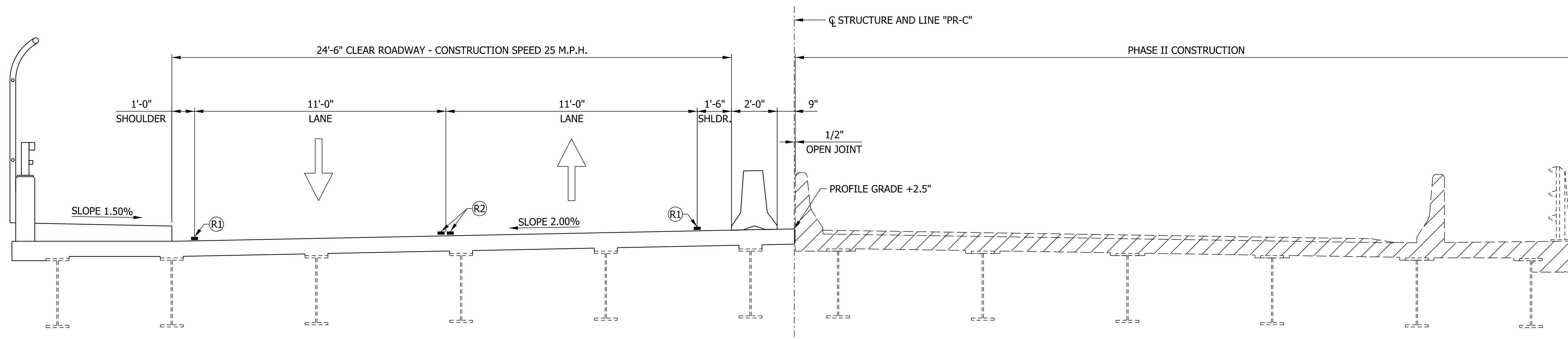
RECOMMENDED FOR APPROVAL	<i>J. Patrick Duncan</i>	DESIGN ENGINEER	08/16/17
DESIGNED:	MAE	DRAWN:	JWM
CHECKED:	LDW	CHECKED:	MAE

INDIANA DEPARTMENT OF TRANSPORTATION	
<b>TYPICAL CROSS SECTIONS</b>	

HORIZONTAL SCALE	BRIDGE FILE
1/4" = 1'-0"	41-45-02073B
VERTICAL SCALE	DESIGNATION
1/4" = 1'-0"	1172245
SURVEY BOOK	SHEETS
	4 of 86
CONTRACT	PROJECT
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PHASE I

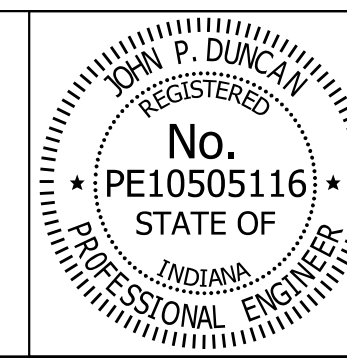


PHASE II

LEGEND

- T1 TEMPORARY PAVEMENT MARKING, 4IN. (WHITE)
- T2 TEMPORARY PAVEMENT MARKING, 4IN. (YELLOW)
- R1 TEMPORARY PAVEMENT MARKING, REMOVABLE, 4IN. (WHITE)
- R2 TEMPORARY PAVEMENT MARKING, REMOVABLE, 4IN. (YELLOW)
- TEMPORARY TRAFFIC BARRIER, TYPE 2, ANCHORED
- DIRECTION OF TRAFFIC
- HATCHED AREA INDICATES PORTIONS TO BE REMOVED

CONSTRUCTION ZONE DESIGN SPEED = 35 MPH

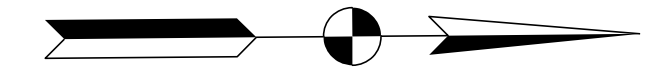


RECOMMENDED FOR APPROVAL	<i>J. Patrick Duncan</i>	DESIGN ENGINEER	08/16/17	DATE
DESIGNED:	DZ	DRAWN:	JWM	
CHECKED:	JPD	CHECKED:	DZ	

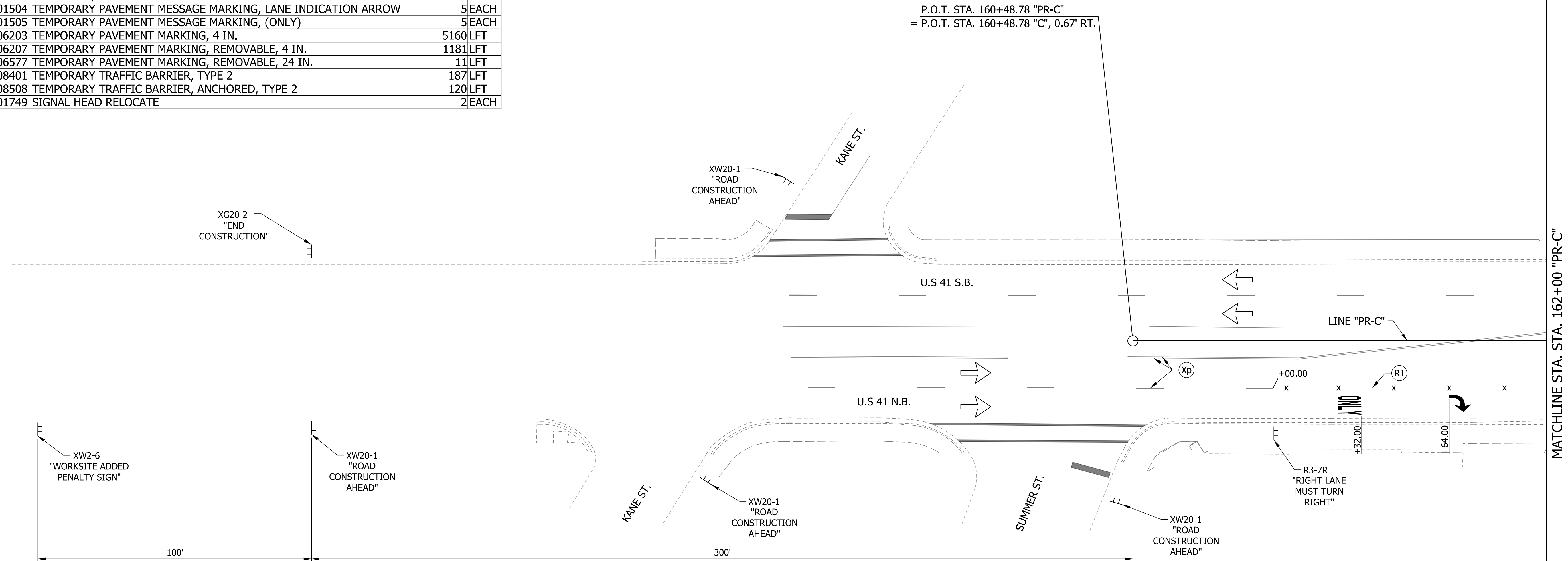
INDIANA  
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC  
TYPICAL SECTIONS

HORIZONTAL SCALE	BRIDGE FILE
3/8" = 1'-0"	41-45-02073B
VERTICAL SCALE	DESIGNATION
3/8" = 1'-0"	1172245
SURVEY BOOK	SHEETS
	5 of 86
CONTRACT	PROJECT
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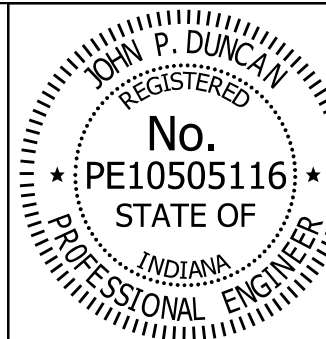


PHASE I MOT QUANTITIES			
PAY ITEM	DESCRIPTION	QUANTITY	UNIT
801-06640	CONSTRUCTION SIGN, A	12	EACH
801-06645	CONSTRUCTION SIGN, B	8	EACH
801-04308	ROAD CLOSER SIGN ASSEMBLY	6	EACH
801-06775	MAINTAINING TRAFFIC	1	LS
801-07118	BARRICADE, III-A	264	LFT
801-01504	TEMPORARY PAVEMENT MESSAGE MARKING, LANE INDICATION ARROW	5	EACH
801-01505	TEMPORARY PAVEMENT MESSAGE MARKING, (ONLY)	5	EACH
801-06203	TEMPORARY PAVEMENT MARKING, 4 IN.	5160	LFT
801-06207	TEMPORARY PAVEMENT MARKING, REMOVABLE, 4 IN.	1181	LFT
801-06577	TEMPORARY PAVEMENT MARKING, REMOVABLE, 24 IN.	11	LFT
801-08401	TEMPORARY TRAFFIC BARRIER, TYPE 2	187	LFT
801-08508	TEMPORARY TRAFFIC BARRIER, ANCHORED, TYPE 2	120	LFT
802-01749	SIGNAL HEAD RELOCATE	2	EACH



LEGEND

- (T1) TEMP. PAVEMENT MARKING, 4 IN., (WHITE)
- (T2) TEMP. PAVEMENT MARKING, 4 IN., (YELLOW)
- (R1) TEMP. PAVEMENT MARKING, REMOVABLE, 4 IN., (WHITE)
- (R2) TEMP. PAVEMENT MARKING, REMOVABLE, 4 IN., (YELLOW)
- (R3) TEMP. TRANSVERSE PAVEMENT MARKING, REMOVABLE, 24", (WHITE)
- (Xp) EXISTING PAVEMENT MARKING
- ↩ TEMP. PAVEMENT MESSAGE MARKING, REMOVABLE, LANE INDICATION ARROW
- ONLY TEMP. PAVEMENT MESSAGE MARKING, REMOVABLE, (ONLY)
- ⊥ CONSTRUCTION SIGN
- CHANNELIZING DEVICE
- ▬▬▬▬▬▬ TEMPORARY TRAFFIC BARRIER TYPE 2
- ▬▬▬▬▬ TYPE III-A BARRICADE
- x-x-x EXISTING PAVEMENT MARKING REMOVAL
- ← TRAFFIC FLOW DIRECTION ARROW
- ▨ WORK ZONE



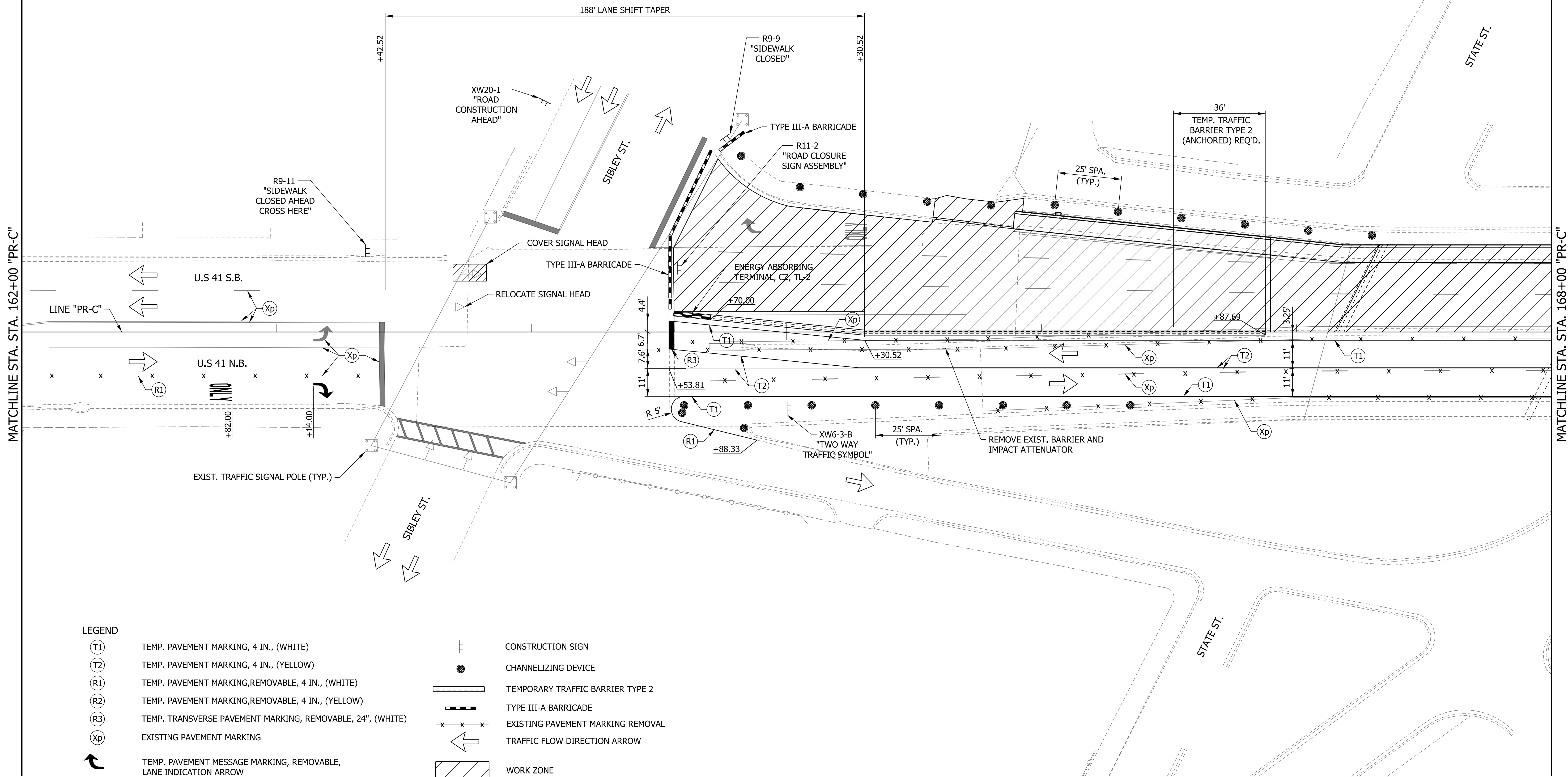
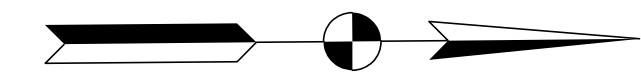
RECOMMENDED FOR APPROVAL *J. Patrick Duncan* 08/16/17  
 DESIGN ENGINEER DATE

DESIGNED: MAE DRAWN: JWM  
 CHECKED: LDW CHECKED: MAE

INDIANA DEPARTMENT OF TRANSPORTATION

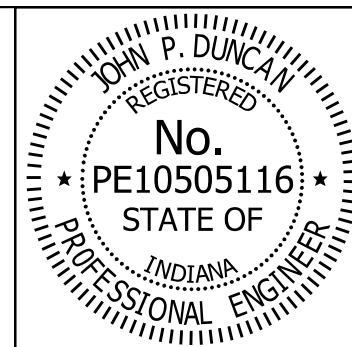
MAINTENANCE OF TRAFFIC DETAILS PHASE I

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	41-45-02073B
VERTICAL SCALE	DESIGNATION
N/A	1172245
SURVEY BOOK	SHEETS
	6 of 86
CONTRACT	PROJECT
B-36676	1172245



LEGEND

- TEMP. PAVEMENT MARKING, 4 IN., (WHITE)
- TEMP. PAVEMENT MARKING, 4 IN., (YELLOW)
- TEMP. PAVEMENT MARKING, REMOVABLE, 4 IN., (WHITE)
- TEMP. PAVEMENT MARKING, REMOVABLE, 4 IN., (YELLOW)
- TEMP. TRANSVERSE PAVEMENT MARKING, REMOVABLE, 24", (WHITE)
- EXISTING PAVEMENT MARKING
- TEMP. PAVEMENT MESSAGE MARKING, REMOVABLE, LANE INDICATION ARROW
- TEMP. PAVEMENT MESSAGE MARKING, REMOVABLE, (ONLY)
- CONSTRUCTION SIGN
- CHANNELIZING DEVICE
- TEMPORARY TRAFFIC BARRIER TYPE 2
- TYPE III-A BARRICADE
- EXISTING PAVEMENT MARKING REMOVAL
- TRAFFIC FLOW DIRECTION ARROW
- WORK ZONE



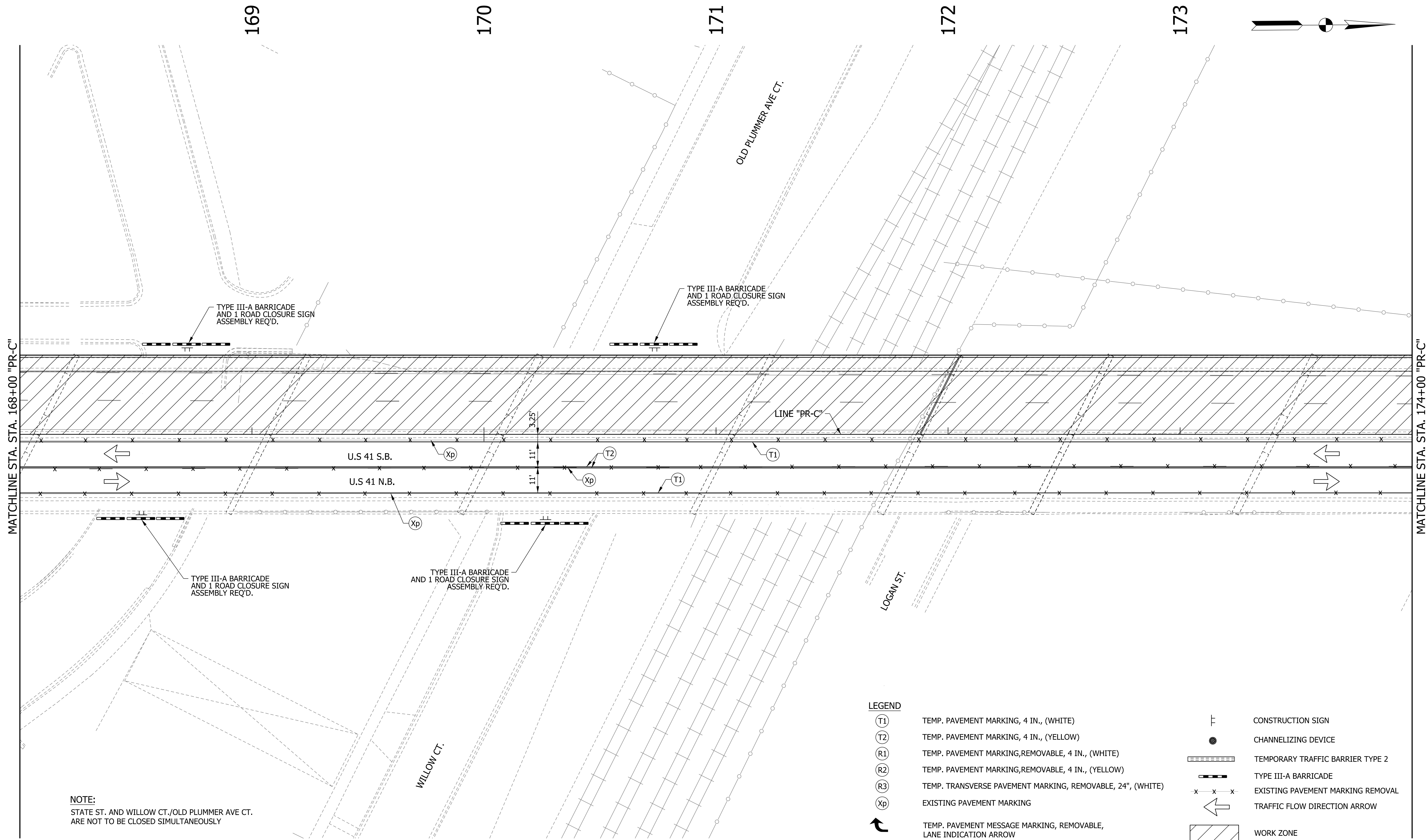
RECOMMENDED FOR APPROVAL *J. Patrick Duncan* 08/16/17  
 DESIGN ENGINEER DATE

DESIGNED: MAE DRAWN: JWM  
 CHECKED: LDW CHECKED: MAE

INDIANA  
 DEPARTMENT OF TRANSPORTATION

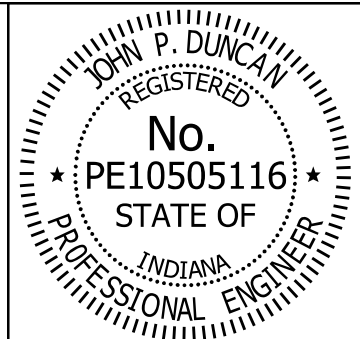
MAINTENANCE OF TRAFFIC DETAILS  
 PHASE I

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	41-45-02073B
VERTICAL SCALE	DESIGNATION
N/A	1172245
SURVEY BOOK	SHEETS
	7 of 86
CONTRACT	PROJECT
B-36676	1172245



**NOTE:**  
 STATE ST. AND WILLOW CT./OLD PLUMMER AVE CT.  
 ARE NOT TO BE CLOSED SIMULTANEOUSLY

LEGEND	
(T1)	TEMP. PAVEMENT MARKING, 4 IN., (WHITE)
(T2)	TEMP. PAVEMENT MARKING, 4 IN., (YELLOW)
(R1)	TEMP. PAVEMENT MARKING, REMOVABLE, 4 IN., (WHITE)
(R2)	TEMP. PAVEMENT MARKING, REMOVABLE, 4 IN., (YELLOW)
(R3)	TEMP. TRANSVERSE PAVEMENT MARKING, REMOVABLE, 24", (WHITE)
(Xp)	EXISTING PAVEMENT MARKING
↶	TEMP. PAVEMENT MESSAGE MARKING, REMOVABLE, LANE INDICATION ARROW
ONLY	TEMP. PAVEMENT MESSAGE MARKING, REMOVABLE, (ONLY)
⌚	CONSTRUCTION SIGN
●	CHANNELIZING DEVICE
▬▬▬▬▬▬	TEMPORARY TRAFFIC BARRIER TYPE 2
▬▬▬▬▬▬	TYPE III-A BARRICADE
-x-x-x-	EXISTING PAVEMENT MARKING REMOVAL
↶	TRAFFIC FLOW DIRECTION ARROW
▨	WORK ZONE



RECOMMENDED FOR APPROVAL *J. Patrick Duncan* 08/16/17  
 DESIGN ENGINEER DATE

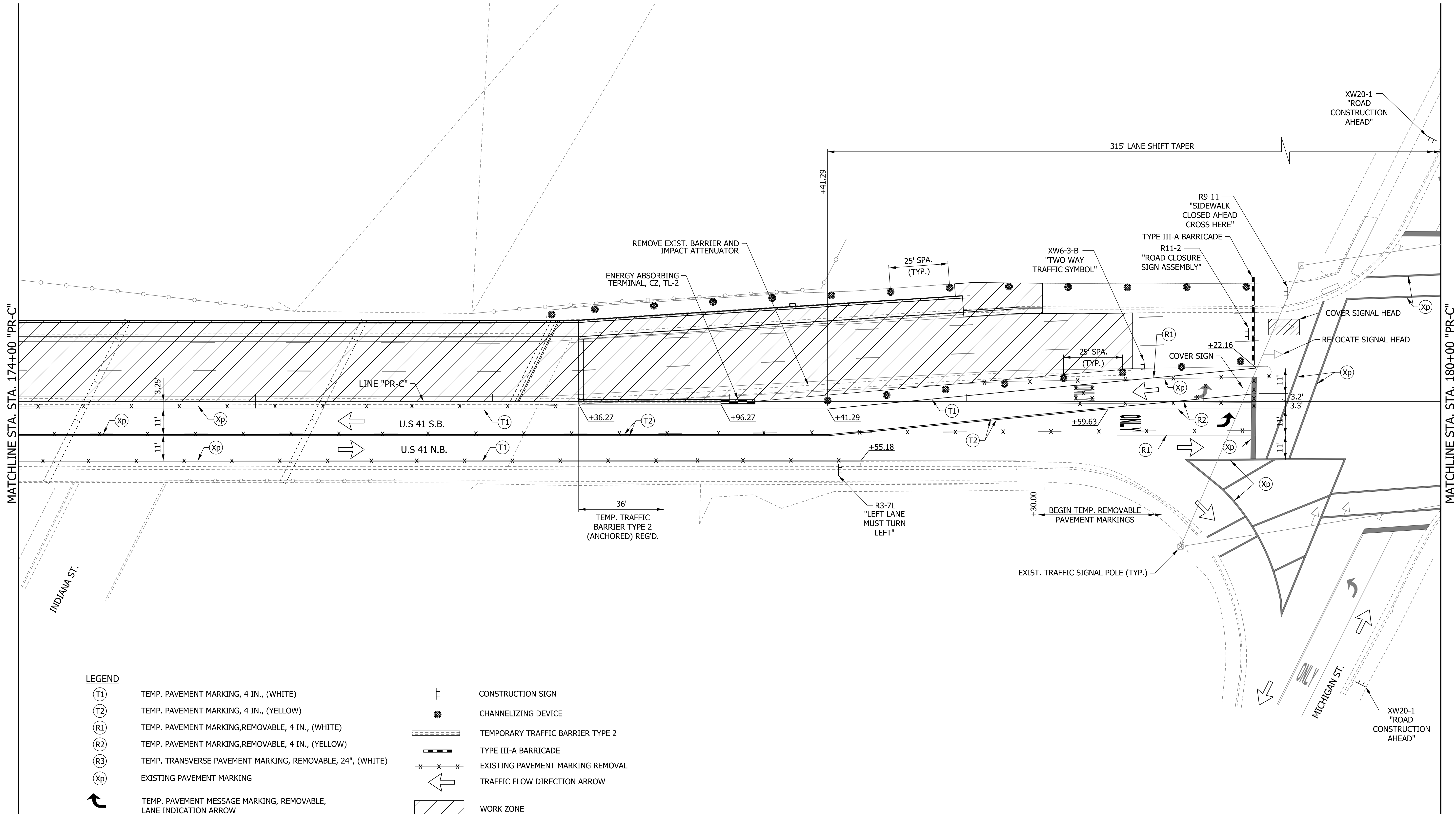
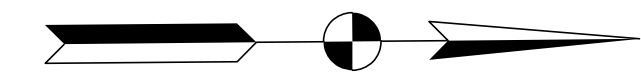
DESIGNED: MAE DRAWN: JWM  
 CHECKED: LDW CHECKED: MAE

INDIANA  
 DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC DETAILS  
 PHASE I

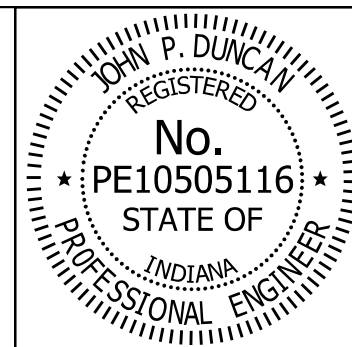
HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	41-45-02073B
VERTICAL SCALE	DESIGNATION
N/A	1172245
SURVEY BOOK	SHEETS
	8 of 86
CONTRACT	PROJECT
B-36676	1172245





LEGEND

- TEMP. PAVEMENT MARKING, 4 IN., (WHITE)
- TEMP. PAVEMENT MARKING, 4 IN., (YELLOW)
- TEMP. PAVEMENT MARKING, REMOVABLE, 4 IN., (WHITE)
- TEMP. PAVEMENT MARKING, REMOVABLE, 4 IN., (YELLOW)
- TEMP. TRANSVERSE PAVEMENT MARKING, REMOVABLE, 24", (WHITE)
- EXISTING PAVEMENT MARKING
- TEMP. PAVEMENT MESSAGE MARKING, REMOVABLE, LANE INDICATION ARROW
- TEMP. PAVEMENT MESSAGE MARKING, REMOVABLE, (ONLY)
- CONSTRUCTION SIGN
- CHANNELIZING DEVICE
- TEMPORARY TRAFFIC BARRIER TYPE 2
- TYPE III-A BARRICADE
- EXISTING PAVEMENT MARKING REMOVAL
- TRAFFIC FLOW DIRECTION ARROW
- WORK ZONE



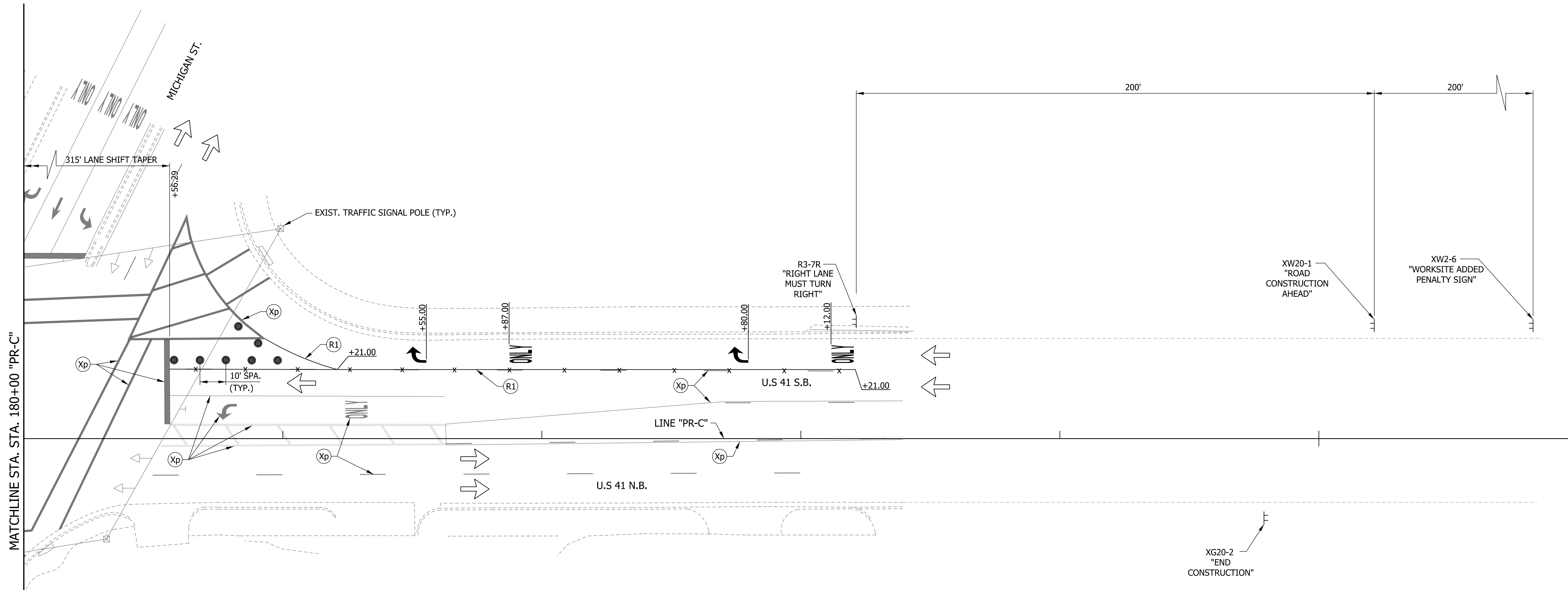
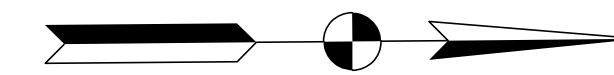
RECOMMENDED FOR APPROVAL *J. Patrick Duncan* 08/16/17  
 DESIGN ENGINEER DATE

DESIGNED: MAE DRAWN: JWM  
 CHECKED: LDW CHECKED: MAE

INDIANA  
 DEPARTMENT OF TRANSPORTATION

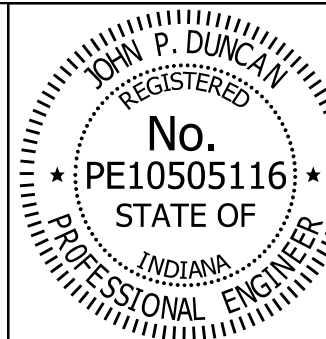
MAINTENANCE OF TRAFFIC DETAILS  
 PHASE I

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	41-45-02073B
VERTICAL SCALE	DESIGNATION
N/A	1172245
SURVEY BOOK	SHEETS
	9 of 86
CONTRACT	PROJECT
B-36676	1172245



LEGEND

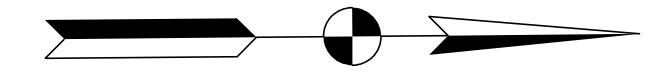
- (T1) TEMP. PAVEMENT MARKING, 4 IN., (WHITE)
- (T2) TEMP. PAVEMENT MARKING, 4 IN., (YELLOW)
- (R1) TEMP. PAVEMENT MARKING, REMOVABLE, 4 IN., (WHITE)
- (R2) TEMP. PAVEMENT MARKING, REMOVABLE, 4 IN., (YELLOW)
- (R3) TEMP. TRANSVERSE PAVEMENT MARKING, REMOVABLE, 24", (WHITE)
- (Xp) EXISTING PAVEMENT MARKING
- ↪ TEMP. PAVEMENT MESSAGE MARKING, REMOVABLE, LANE INDICATION ARROW
- ONLY TEMP. PAVEMENT MESSAGE MARKING, REMOVABLE, (ONLY)
- ⏏ CONSTRUCTION SIGN
- CHANNELIZING DEVICE
- ▬▬▬▬▬▬ TEMPORARY TRAFFIC BARRIER TYPE 2
- ▬▬▬▬▬ TYPE III-A BARRICADE
- x-x-x EXISTING PAVEMENT MARKING REMOVAL
- ↔ TRAFFIC FLOW DIRECTION ARROW
- ▨ WORK ZONE



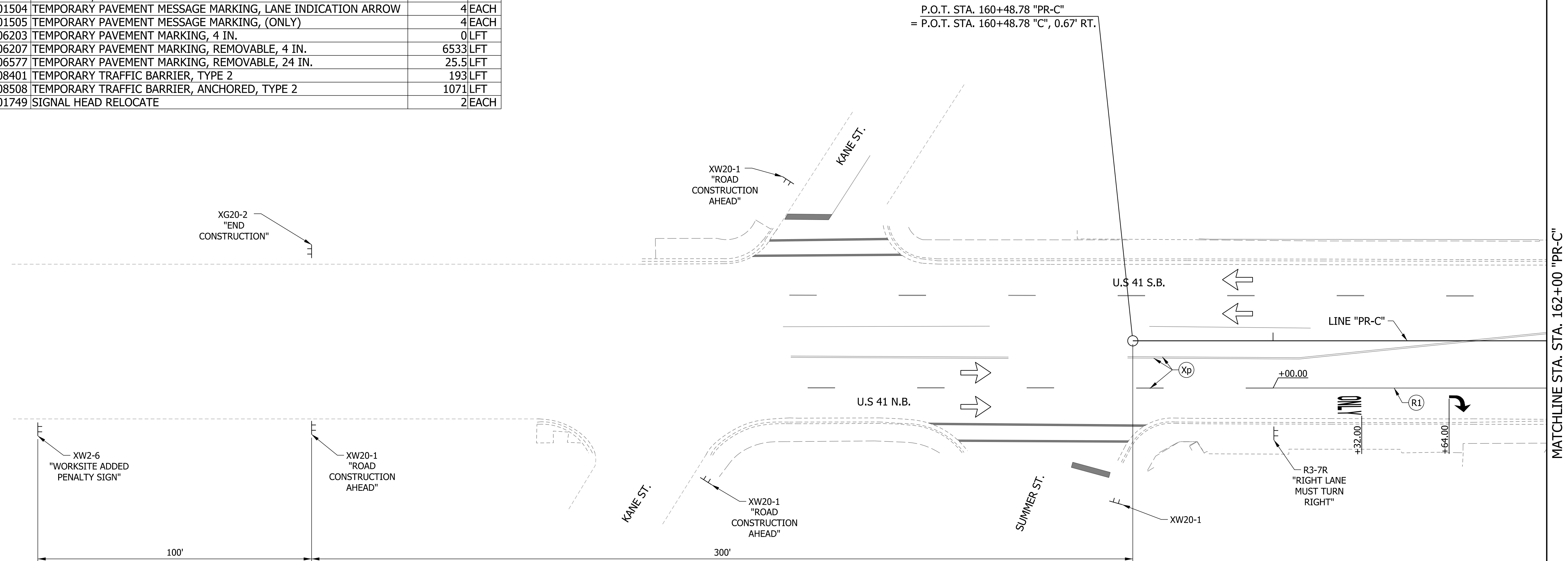
RECOMMENDED FOR APPROVAL *J. Patrick Duncan* 08/16/17  
 DESIGN ENGINEER  
 DESIGNED: MAE DRAWN: JWM  
 CHECKED: LDW CHECKED: MAE

INDIANA  
 DEPARTMENT OF TRANSPORTATION  
 MAINTENANCE OF TRAFFIC DETAILS  
 PHASE I

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	41-45-02073B
VERTICAL SCALE	DESIGNATION
N/A	1172245
SURVEY BOOK	SHEETS
	10 of 86
CONTRACT	PROJECT
B-36676	1172245

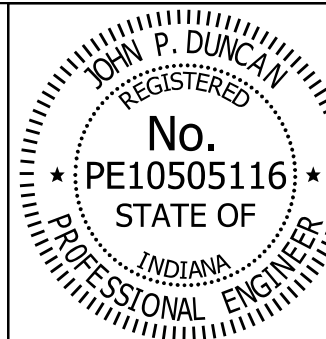


PHASE II MOT QUANTITIES			
PAY ITEM	DESCRIPTION	QUANTITY	UNIT
801-06640	CONSTRUCTION SIGN, A	12	EACH
801-06645	CONSTRUCTION SIGN, B	7	EACH
801-04308	ROAD CLOSER SIGN ASSEMBLY	6	EACH
801-06775	MAINTAINING TRAFFIC	1	LS
801-07118	BARRICADE, III-A	228	LFT
801-01504	TEMPORARY PAVEMENT MESSAGE MARKING, LANE INDICATION ARROW	4	EACH
801-01505	TEMPORARY PAVEMENT MESSAGE MARKING, (ONLY)	4	EACH
801-06203	TEMPORARY PAVEMENT MARKING, 4 IN.	0	LFT
801-06207	TEMPORARY PAVEMENT MARKING, REMOVABLE, 4 IN.	6533	LFT
801-06577	TEMPORARY PAVEMENT MARKING, REMOVABLE, 24 IN.	25.5	LFT
801-08401	TEMPORARY TRAFFIC BARRIER, TYPE 2	193	LFT
801-08508	TEMPORARY TRAFFIC BARRIER, ANCHORED, TYPE 2	1071	LFT
802-01749	SIGNAL HEAD RELOCATE	2	EACH



LEGEND

- (T1) TEMP. PAVEMENT MARKING, 4 IN., (WHITE)
- (T2) TEMP. PAVEMENT MARKING, 4 IN., (YELLOW)
- (R1) TEMP. PAVEMENT MARKING, REMOVABLE, 4 IN., (WHITE)
- (R2) TEMP. PAVEMENT MARKING, REMOVABLE, 4 IN., (YELLOW)
- (R3) TEMP. TRANSVERSE PAVEMENT MARKING, REMOVABLE, 24", (WHITE)
- (Xp) EXISTING PAVEMENT MARKING
- ↶ TEMP. PAVEMENT MESSAGE MARKING, REMOVABLE, LANE INDICATION ARROW
- ↷ ONLY TEMP. PAVEMENT MESSAGE MARKING, REMOVABLE, (ONLY)
- ⊥ CONSTRUCTION SIGN
- CHANNELIZING DEVICE
- ▬▬▬▬▬▬ TEMPORARY TRAFFIC BARRIER TYPE 2
- ▬▬▬▬▬▬ TYPE III-A BARRICADE
- x-x-x EXISTING PAVEMENT MARKING REMOVAL
- ← TRAFFIC FLOW DIRECTION ARROW
- ▨ WORK ZONE

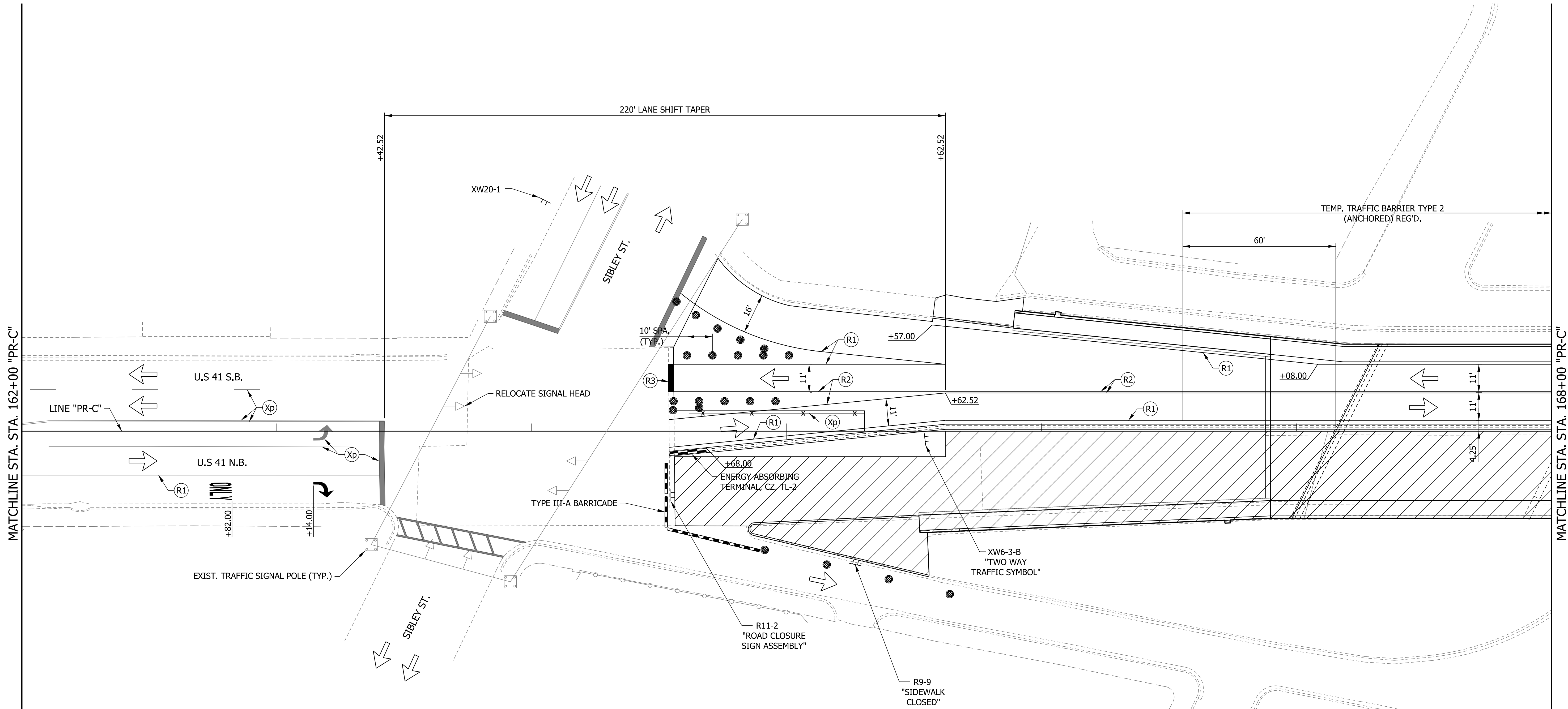
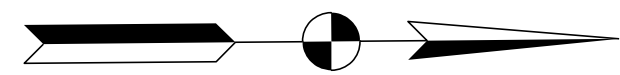


RECOMMENDED FOR APPROVAL	<i>J. Patrick Duncan</i>	DESIGN ENGINEER	08/16/17	DATE
DESIGNED:	MAE	DRAWN:	JWM	
CHECKED:	LDW	CHECKED:	MAE	

INDIANA  
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC DETAILS  
PHASE II

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	41-45-02073B
VERTICAL SCALE	DESIGNATION
N/A	1172245
SURVEY BOOK	SHEETS
	11 of 86
CONTRACT	PROJECT
B-36676	1172245

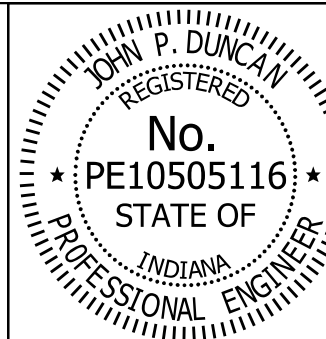


MATCHLINE STA. 162+00 "PR-C"

MATCHLINE STA. 168+00 "PR-C"

LEGEND

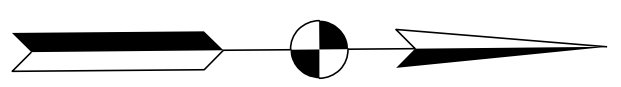
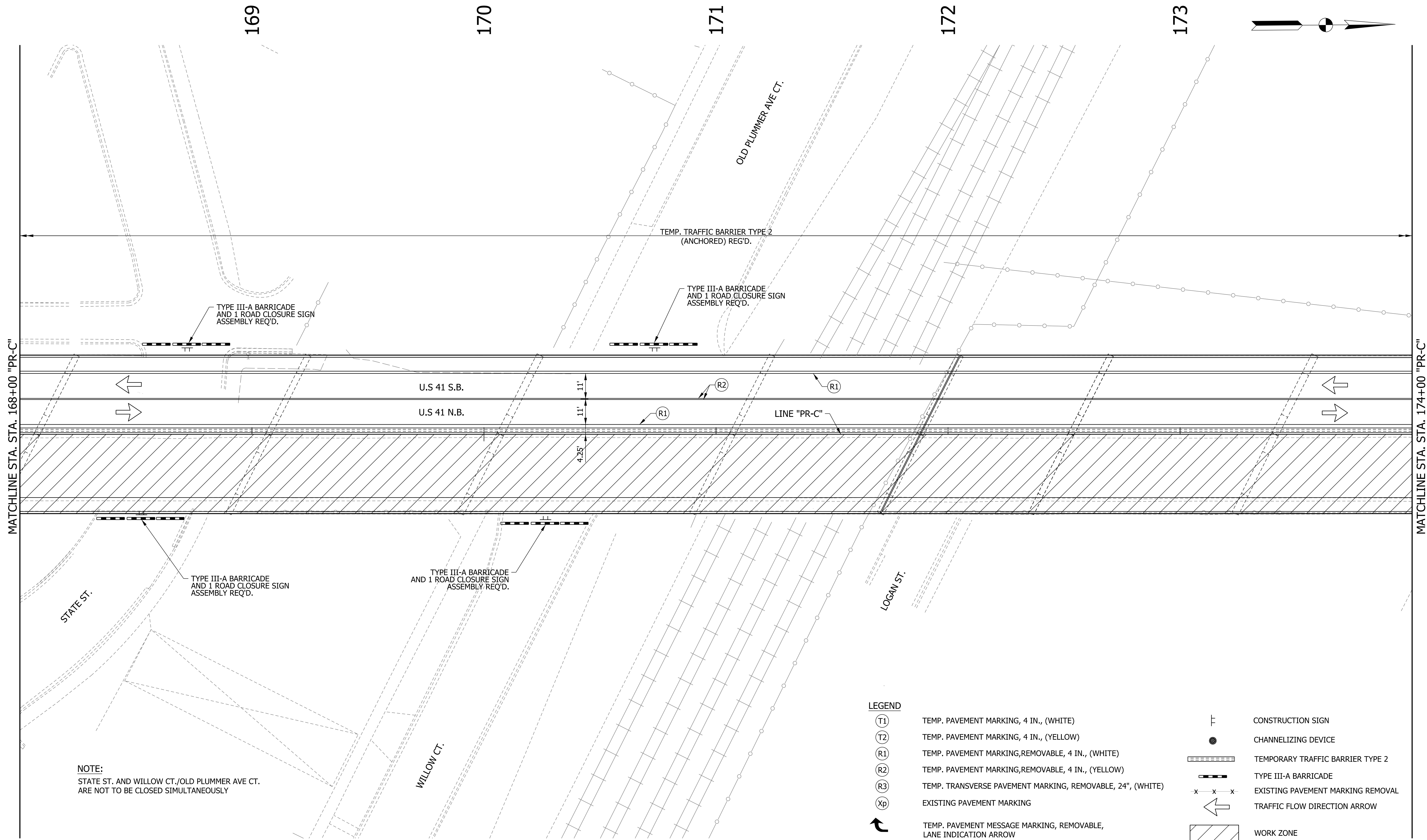
- (T1) TEMP. PAVEMENT MARKING, 4 IN., (WHITE)
- (T2) TEMP. PAVEMENT MARKING, 4 IN., (YELLOW)
- (R1) TEMP. PAVEMENT MARKING, REMOVABLE, 4 IN., (WHITE)
- (R2) TEMP. PAVEMENT MARKING, REMOVABLE, 4 IN., (YELLOW)
- (R3) TEMP. TRANSVERSE PAVEMENT MARKING, REMOVABLE, 24", (WHITE)
- (Xp) EXISTING PAVEMENT MARKING
- ↶ TEMP. PAVEMENT MESSAGE MARKING, REMOVABLE, LANE INDICATION ARROW
- ↶ ONLY TEMP. PAVEMENT MESSAGE MARKING, REMOVABLE, (ONLY)
- ⊥ CONSTRUCTION SIGN
- CHANNELIZING DEVICE
- ▬ TEMPORARY TRAFFIC BARRIER TYPE 2
- ▬ TYPE III-A BARRICADE
- x x x EXISTING PAVEMENT MARKING REMOVAL
- ↶ TRAFFIC FLOW DIRECTION ARROW
- ▨ WORK ZONE



RECOMMENDED FOR APPROVAL *J. Patrick Duncan* 08/16/17  
 DESIGN ENGINEER  
 DESIGNED: MAE DRAWN: JWM  
 CHECKED: LDW CHECKED: MAE

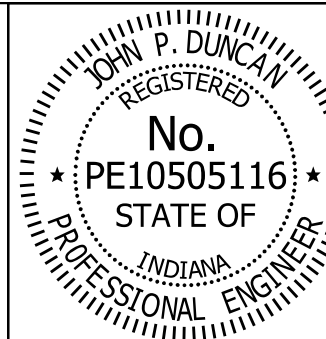
INDIANA DEPARTMENT OF TRANSPORTATION  
 MAINTENANCE OF TRAFFIC DETAILS PHASE II

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	41-45-02073B
VERTICAL SCALE	DESIGNATION
N/A	1172245
SURVEY BOOK	SHEETS
	12 of 86
CONTRACT	PROJECT
B-36676	1172245



**NOTE:**  
STATE ST. AND WILLOW CT./OLD PLUMMER AVE CT.  
ARE NOT TO BE CLOSED SIMULTANEOUSLY

LEGEND	
(T1)	TEMP. PAVEMENT MARKING, 4 IN., (WHITE)
(T2)	TEMP. PAVEMENT MARKING, 4 IN., (YELLOW)
(R1)	TEMP. PAVEMENT MARKING, REMOVABLE, 4 IN., (WHITE)
(R2)	TEMP. PAVEMENT MARKING, REMOVABLE, 4 IN., (YELLOW)
(R3)	TEMP. TRANSVERSE PAVEMENT MARKING, REMOVABLE, 24", (WHITE)
(Xp)	EXISTING PAVEMENT MARKING
	TEMP. PAVEMENT MESSAGE MARKING, REMOVABLE, LANE INDICATION ARROW
<b>ONLY</b>	TEMP. PAVEMENT MESSAGE MARKING, REMOVABLE, (ONLY)
	CONSTRUCTION SIGN
	CHANNELIZING DEVICE
	TEMPORARY TRAFFIC BARRIER TYPE 2
	TYPE III-A BARRICADE
	EXISTING PAVEMENT MARKING REMOVAL
	TRAFFIC FLOW DIRECTION ARROW
	WORK ZONE



RECOMMENDED FOR APPROVAL *J. Patrick Duncan* 08/16/17  
DESIGN ENGINEER DATE

DESIGNED: MAE DRAWN: JWM  
CHECKED: LDW CHECKED: MAE

INDIANA  
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC DETAILS  
PHASE II

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	41-45-02073B
VERTICAL SCALE	DESIGNATION
N/A	1172245
SURVEY BOOK	SHEETS
	13 of 86
CONTRACT	PROJECT
B-36676	1172245

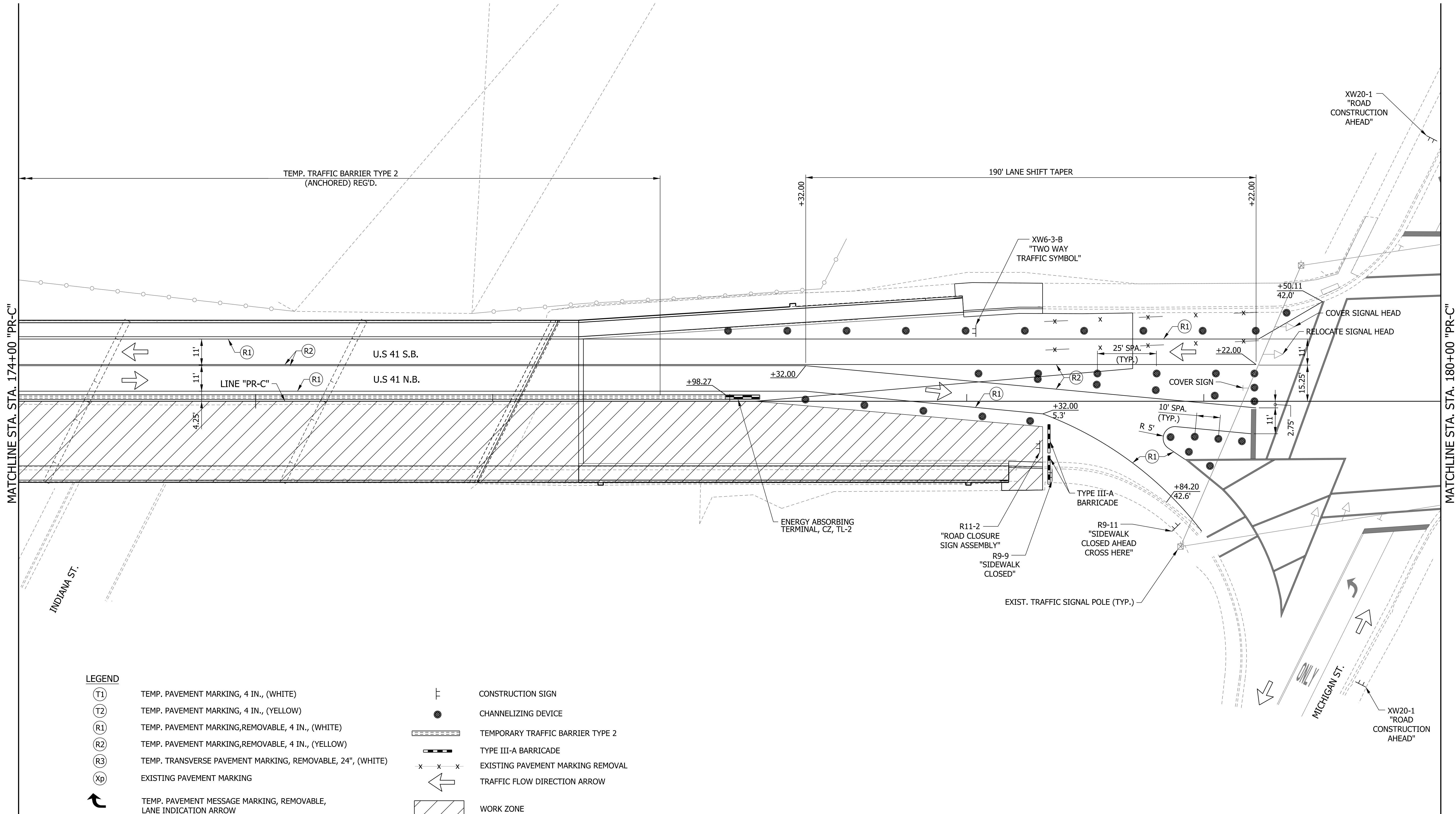
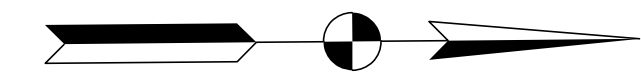
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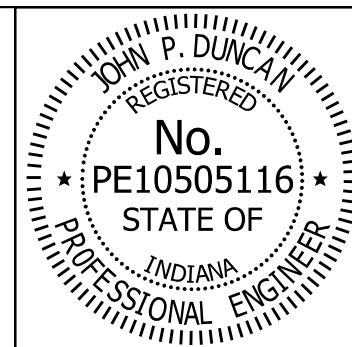
178

179



LEGEND

- |      |  |             |                                   |
|------|--|-------------|-----------------------------------|
| (T1) | TEMP. PAVEMENT MARKING, 4 IN., (WHITE)                           | ⌄           | CONSTRUCTION SIGN                 |
| (T2) | TEMP. PAVEMENT MARKING, 4 IN., (YELLOW)                          | ●           | CHANNELIZING DEVICE               |
| (R1) | TEMP. PAVEMENT MARKING, REMOVABLE, 4 IN., (WHITE)                | ▨           | TEMPORARY TRAFFIC BARRIER TYPE 2  |
| (R2) | TEMP. PAVEMENT MARKING, REMOVABLE, 4 IN., (YELLOW)               | — —         | TYPE III-A BARRICADE              |
| (R3) | TEMP. TRANSVERSE PAVEMENT MARKING, REMOVABLE, 24", (WHITE)       | - x - x - x | EXISTING PAVEMENT MARKING REMOVAL |
| (Xp) | EXISTING PAVEMENT MARKING  | ←           | TRAFFIC FLOW DIRECTION ARROW      |
| ↶    | TEMP. PAVEMENT MESSAGE MARKING, REMOVABLE, LANE INDICATION ARROW | ▨           | WORK ZONE                         |
| ONLY | TEMP. PAVEMENT MESSAGE MARKING, REMOVABLE, (ONLY)                |             |                                   |



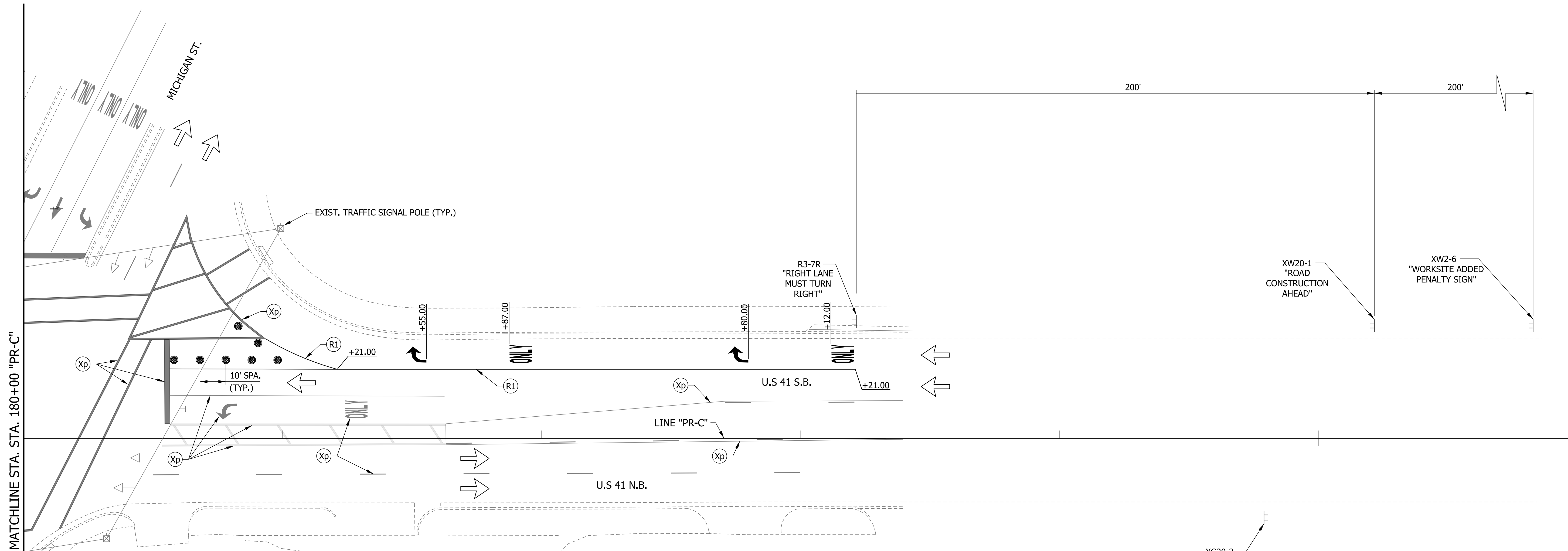
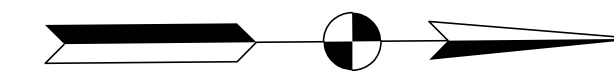
RECOMMENDED FOR APPROVAL *J. Patrick Duncan* 08/16/17  
 DESIGN ENGINEER DATE

DESIGNED: MAE DRAWN: JWM  
 CHECKED: LDW CHECKED: MAE

INDIANA  
 DEPARTMENT OF TRANSPORTATION

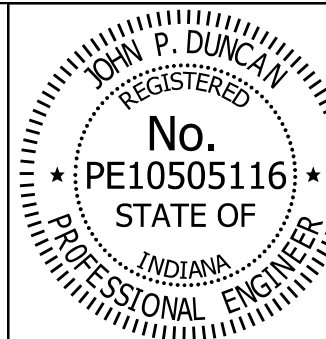
MAINTENANCE OF TRAFFIC DETAILS  
 PHASE II

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	41-45-02073B
VERTICAL SCALE	DESIGNATION
N/A	1172245
SURVEY BOOK	SHEETS
	14 of 86
CONTRACT	PROJECT
B-36676	1172245



LEGEND

- (T1) TEMP. PAVEMENT MARKING, 4 IN., (WHITE)
- (T2) TEMP. PAVEMENT MARKING, 4 IN., (YELLOW)
- (R1) TEMP. PAVEMENT MARKING, REMOVABLE, 4 IN., (WHITE)
- (R2) TEMP. PAVEMENT MARKING, REMOVABLE, 4 IN., (YELLOW)
- (R3) TEMP. TRANSVERSE PAVEMENT MARKING, REMOVABLE, 24", (WHITE)
- (Xp) EXISTING PAVEMENT MARKING
- ↶ TEMP. PAVEMENT MESSAGE MARKING, REMOVABLE, LANE INDICATION ARROW
- ONLY TEMP. PAVEMENT MESSAGE MARKING, REMOVABLE, (ONLY)
- ⌄ CONSTRUCTION SIGN
- CHANNELIZING DEVICE
- ▤ TEMPORARY TRAFFIC BARRIER TYPE 2
- ▬ TYPE III-A BARRICADE
- x-x-x EXISTING PAVEMENT MARKING REMOVAL
- ↔ TRAFFIC FLOW DIRECTION ARROW
- ▨ WORK ZONE



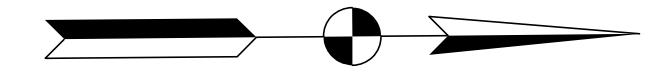
RECOMMENDED FOR APPROVAL *J. Patrick Duncan* 08/16/17  
 DESIGN ENGINEER DATE

DESIGNED: MAE DRAWN: JWM  
 CHECKED: LDW CHECKED: MAE

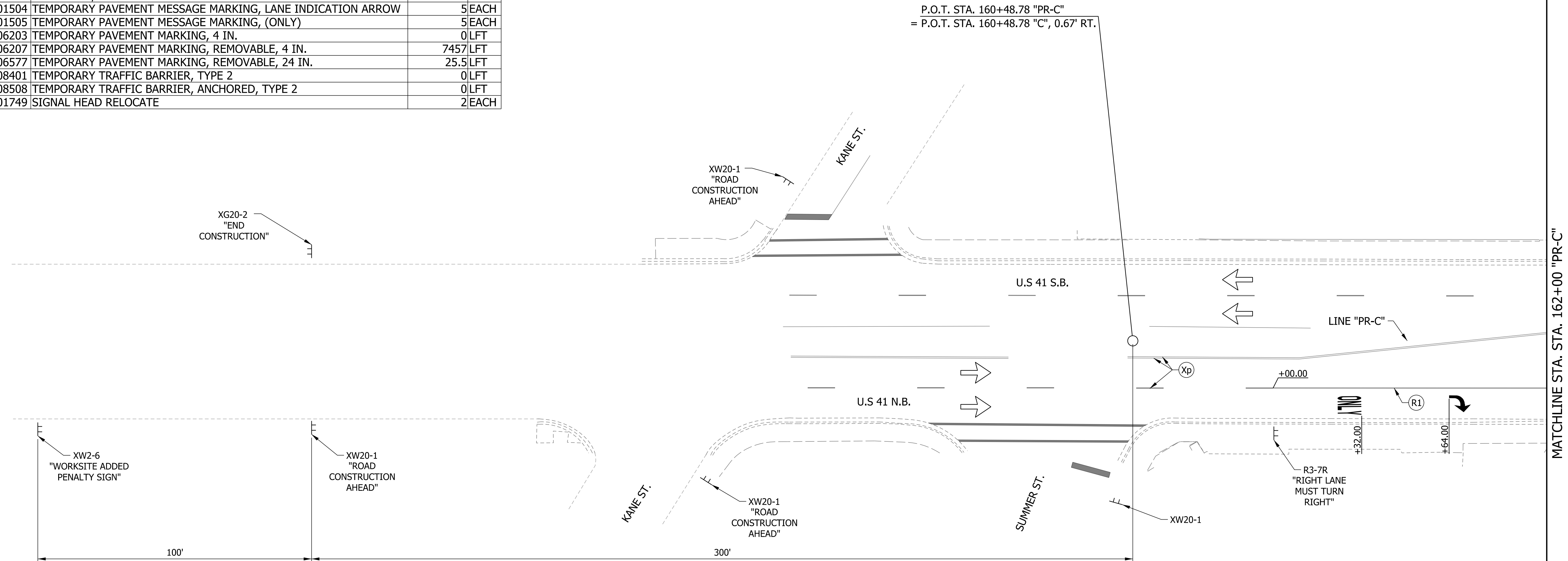
INDIANA  
 DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC DETAILS  
 PHASE II

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	41-45-02073B
VERTICAL SCALE	DESIGNATION
N/A	1172245
SURVEY BOOK	SHEETS
	15 of 86
CONTRACT	PROJECT
B-36676	1172245

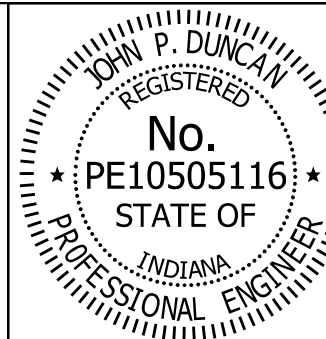


PHASE III MOT QUANTITIES			
PAY ITEM	DESCRIPTION	QUANTITY	UNIT
801-06640	CONSTRUCTION SIGN, A	10	EACH
801-06645	CONSTRUCTION SIGN, B	4	EACH
801-04308	ROAD CLOSER SIGN ASSEMBLY	1	EACH
801-06775	MAINTAINING TRAFFIC	1	LS
801-07118	BARRICADE, III-A	2	EACH
801-01504	TEMPORARY PAVEMENT MESSAGE MARKING, LANE INDICATION ARROW	5	EACH
801-01505	TEMPORARY PAVEMENT MESSAGE MARKING, (ONLY)	5	EACH
801-06203	TEMPORARY PAVEMENT MARKING, 4 IN.	0	LFT
801-06207	TEMPORARY PAVEMENT MARKING, REMOVABLE, 4 IN.	7457	LFT
801-06577	TEMPORARY PAVEMENT MARKING, REMOVABLE, 24 IN.	25.5	LFT
801-08401	TEMPORARY TRAFFIC BARRIER, TYPE 2	0	LFT
801-08508	TEMPORARY TRAFFIC BARRIER, ANCHORED, TYPE 2	0	LFT
802-01749	SIGNAL HEAD RELOCATE	2	EACH



LEGEND

- (T1) TEMP. PAVEMENT MARKING, 4 IN., (WHITE)
- (T2) TEMP. PAVEMENT MARKING, 4 IN., (YELLOW)
- (R1) TEMP. PAVEMENT MARKING, REMOVABLE, 4 IN., (WHITE)
- (R2) TEMP. PAVEMENT MARKING, REMOVABLE, 4 IN., (YELLOW)
- (R3) TEMP. TRANSVERSE PAVEMENT MARKING, REMOVABLE, 24", (WHITE)
- (Xp) EXISTING PAVEMENT MARKING
- ↶ TEMP. PAVEMENT MESSAGE MARKING, REMOVABLE, LANE INDICATION ARROW
- ONLY TEMP. PAVEMENT MESSAGE MARKING, REMOVABLE, (ONLY)
- ⌚ CONSTRUCTION SIGN
- CHANNELIZING DEVICE
- ▬▬▬▬▬▬ TEMPORARY TRAFFIC BARRIER TYPE 2
- ▬▬▬▬▬▬ TYPE III-A BARRICADE
- x-x-x EXISTING PAVEMENT MARKING REMOVAL
- ← TRAFFIC FLOW DIRECTION ARROW
- ▨ WORK ZONE



RECOMMENDED FOR APPROVAL *J. Patrick Duncan* 08/16/17  
 DESIGN ENGINEER DATE

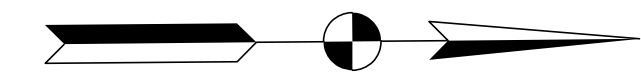
DESIGNED: MAE DRAWN: JWM  
 CHECKED: LDW CHECKED: MAE

INDIANA  
 DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC DETAILS  
 PHASE III

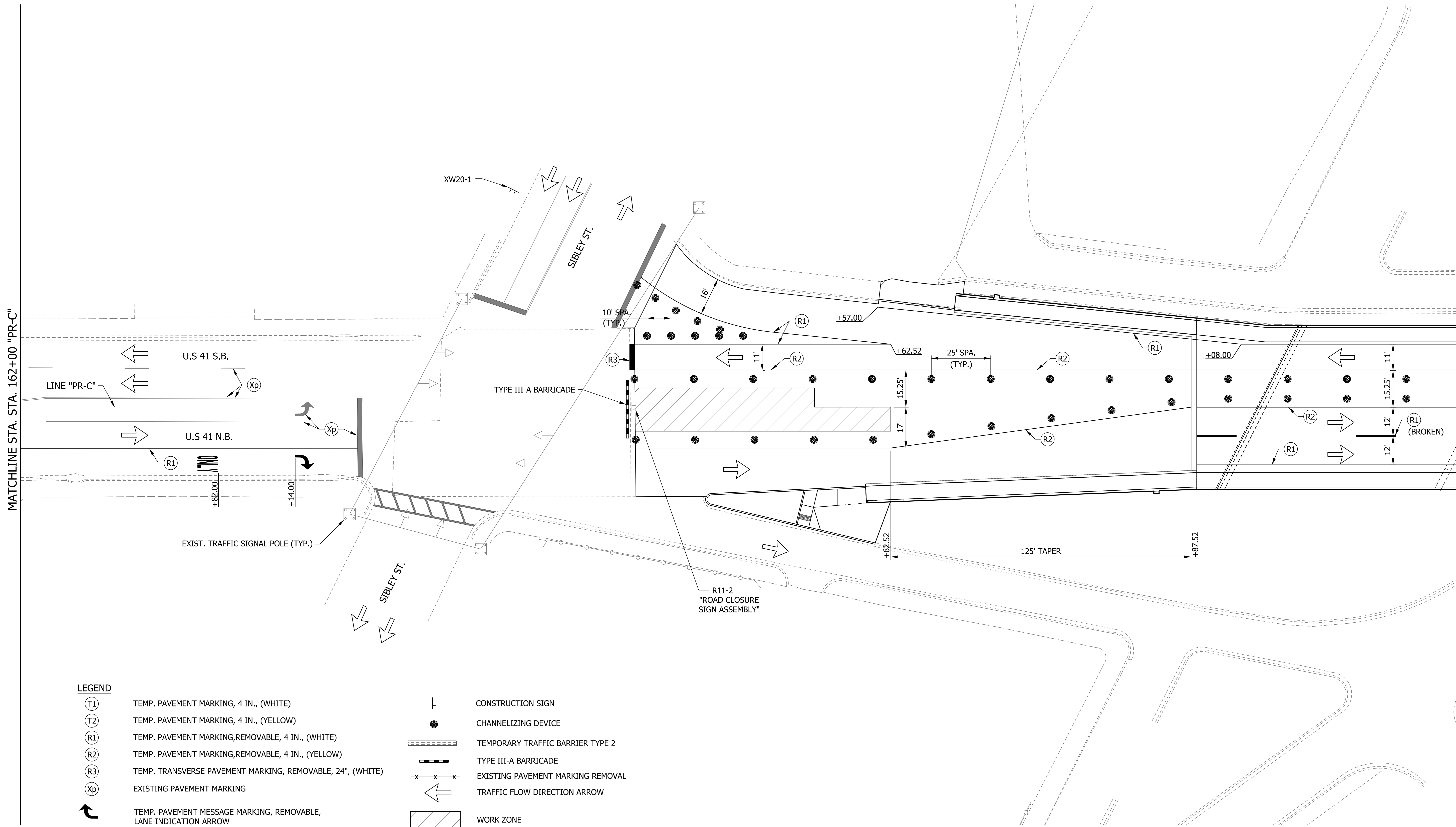
HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	41-45-02073B
VERTICAL SCALE	DESIGNATION
N/A	1172245
SURVEY BOOK	SHEETS
	16 of 86
CONTRACT	PROJECT
B-36676	1172245





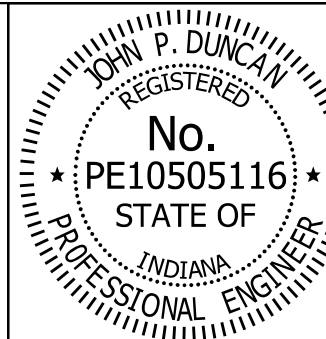
MATCHLINE STA. 162+00 "PR-C"

MATCHLINE STA. 168+00 "PR-C"



LEGEND

- (T1) TEMP. PAVEMENT MARKING, 4 IN., (WHITE)
- (T2) TEMP. PAVEMENT MARKING, 4 IN., (YELLOW)
- (R1) TEMP. PAVEMENT MARKING, REMOVABLE, 4 IN., (WHITE)
- (R2) TEMP. PAVEMENT MARKING, REMOVABLE, 4 IN., (YELLOW)
- (R3) TEMP. TRANSVERSE PAVEMENT MARKING, REMOVABLE, 24", (WHITE)
- (Xp) EXISTING PAVEMENT MARKING
- ↶ TEMP. PAVEMENT MESSAGE MARKING, REMOVABLE, LANE INDICATION ARROW
- ONLY TEMP. PAVEMENT MESSAGE MARKING, REMOVABLE, (ONLY)
- ⚡ CONSTRUCTION SIGN
- CHANNELIZING DEVICE
- ▬ TEMPORARY TRAFFIC BARRIER TYPE 2
- ▬ TYPE III-A BARRICADE
- x x x EXISTING PAVEMENT MARKING REMOVAL
- ↶ TRAFFIC FLOW DIRECTION ARROW
- ▨ WORK ZONE



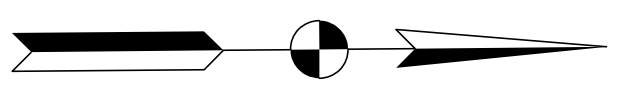
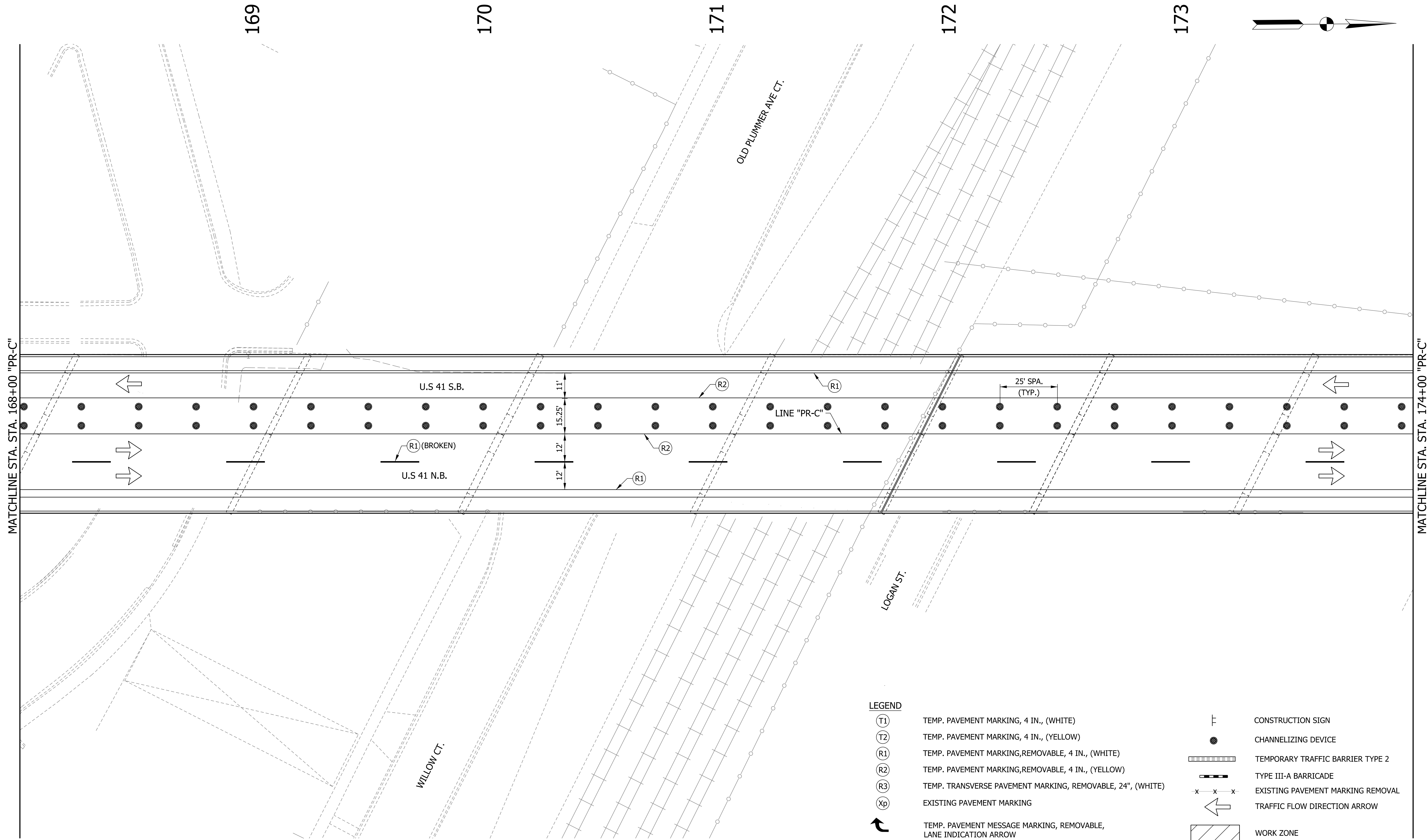
RECOMMENDED FOR APPROVAL *J. Patrick Duncan* 08/16/17  
 DESIGN ENGINEER DATE

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INDIANA  
 DEPARTMENT OF TRANSPORTATION

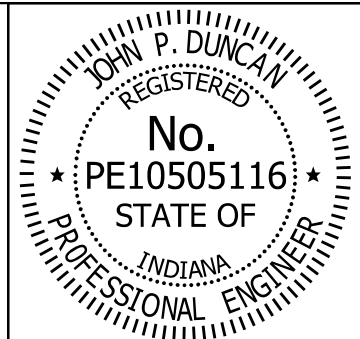
MAINTENANCE OF TRAFFIC DETAILS  
 PHASE III

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	41-45-02073B
VERTICAL SCALE	DESIGNATION
N/A	1172245
SURVEY BOOK	SHEETS
	17 of 86
CONTRACT	PROJECT
B-36676	1172245



**LEGEND**

- (T1) TEMP. PAVEMENT MARKING, 4 IN., (WHITE)
- (T2) TEMP. PAVEMENT MARKING, 4 IN., (YELLOW)
- (R1) TEMP. PAVEMENT MARKING, REMOVABLE, 4 IN., (WHITE)
- (R2) TEMP. PAVEMENT MARKING, REMOVABLE, 4 IN., (YELLOW)
- (R3) TEMP. TRANSVERSE PAVEMENT MARKING, REMOVABLE, 24", (WHITE)
- (Xp) EXISTING PAVEMENT MARKING
- ↶ TEMP. PAVEMENT MESSAGE MARKING, REMOVABLE, LANE INDICATION ARROW
- ONLY TEMP. PAVEMENT MESSAGE MARKING, REMOVABLE, (ONLY)
- ⚡ CONSTRUCTION SIGN
- CHANNELIZING DEVICE
- ▬ TEMPORARY TRAFFIC BARRIER TYPE 2
- ▬ TYPE III-A BARRICADE
- x - x - x - EXISTING PAVEMENT MARKING REMOVAL
- ↶ TRAFFIC FLOW DIRECTION ARROW
- ▨ WORK ZONE



RECOMMENDED FOR APPROVAL *J. Patrick Duncan* 08/16/17  
DESIGN ENGINEER DATE

DESIGNED: MAE DRAWN: JWM  
CHECKED: LDW CHECKED: MAE

INDIANA  
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC DETAILS  
PHASE III

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	41-45-02073B
VERTICAL SCALE	DESIGNATION
N/A	1172245
SURVEY BOOK	SHEETS
	18 of 86
CONTRACT	PROJECT
B-36676	1172245

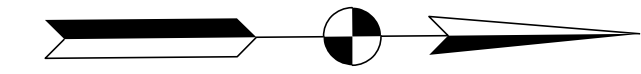
175

176

177

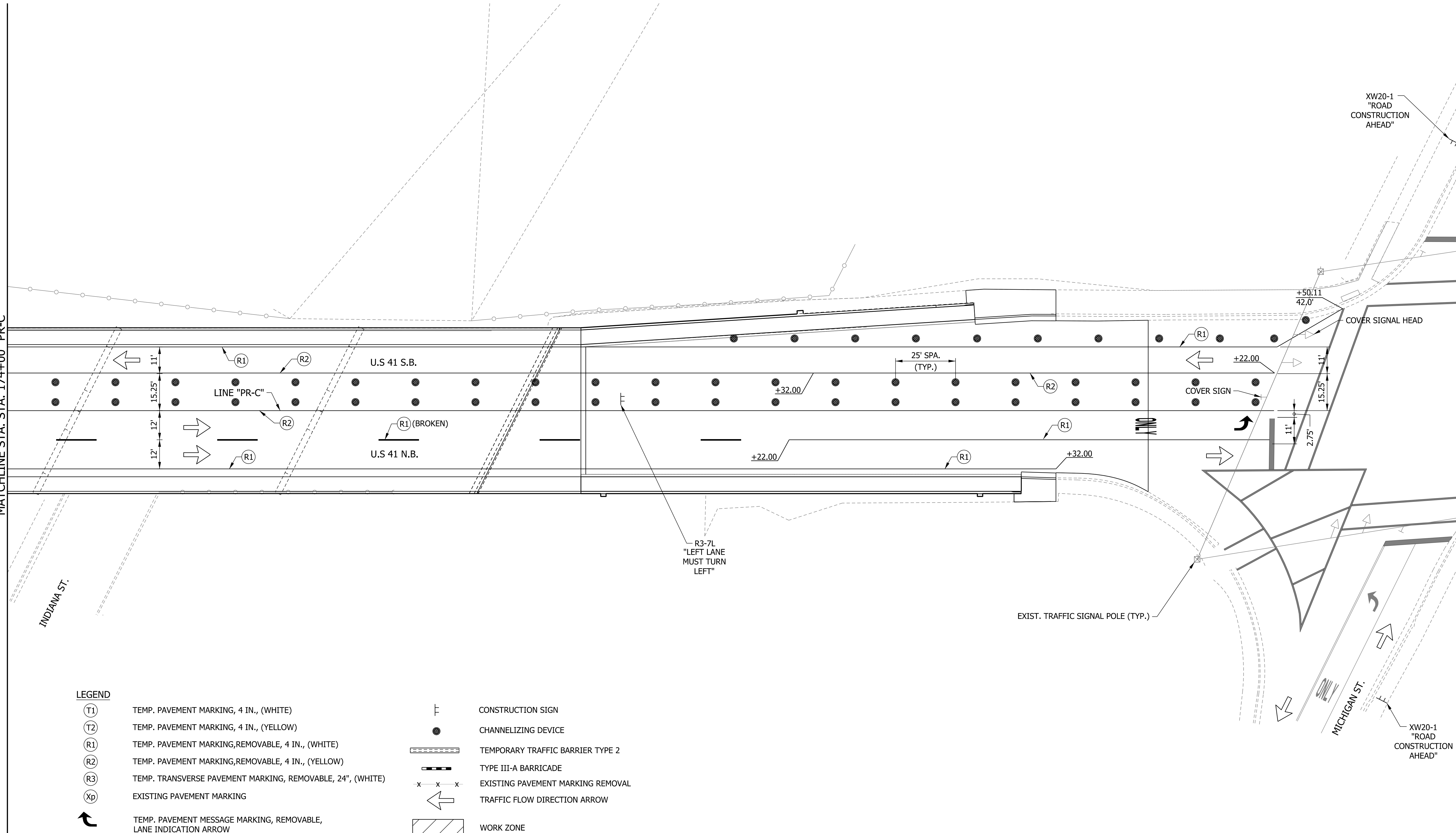
178

179



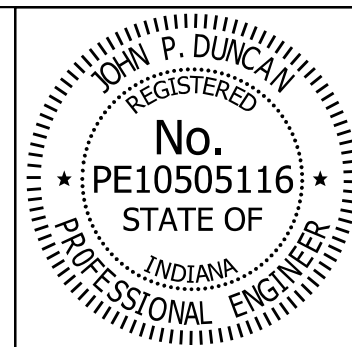
MATCHLINE STA. 174+00 "PR-C"

MATCHLINE STA. 180+00 "PR-C"



LEGEND

- (T1) TEMP. PAVEMENT MARKING, 4 IN., (WHITE)
- (T2) TEMP. PAVEMENT MARKING, 4 IN., (YELLOW)
- (R1) TEMP. PAVEMENT MARKING, REMOVABLE, 4 IN., (WHITE)
- (R2) TEMP. PAVEMENT MARKING, REMOVABLE, 4 IN., (YELLOW)
- (R3) TEMP. TRANSVERSE PAVEMENT MARKING, REMOVABLE, 24", (WHITE)
- (Xp) EXISTING PAVEMENT MARKING
- ↶ TEMP. PAVEMENT MESSAGE MARKING, REMOVABLE, LANE INDICATION ARROW
- ONLY TEMP. PAVEMENT MESSAGE MARKING, REMOVABLE, (ONLY)
- ⌚ CONSTRUCTION SIGN
- CHANNELIZING DEVICE
- ▬ TEMPORARY TRAFFIC BARRIER TYPE 2
- ▬ TYPE III-A BARRICADE
- x - x - x - EXISTING PAVEMENT MARKING REMOVAL
- ↶ TRAFFIC FLOW DIRECTION ARROW
- ▨ WORK ZONE



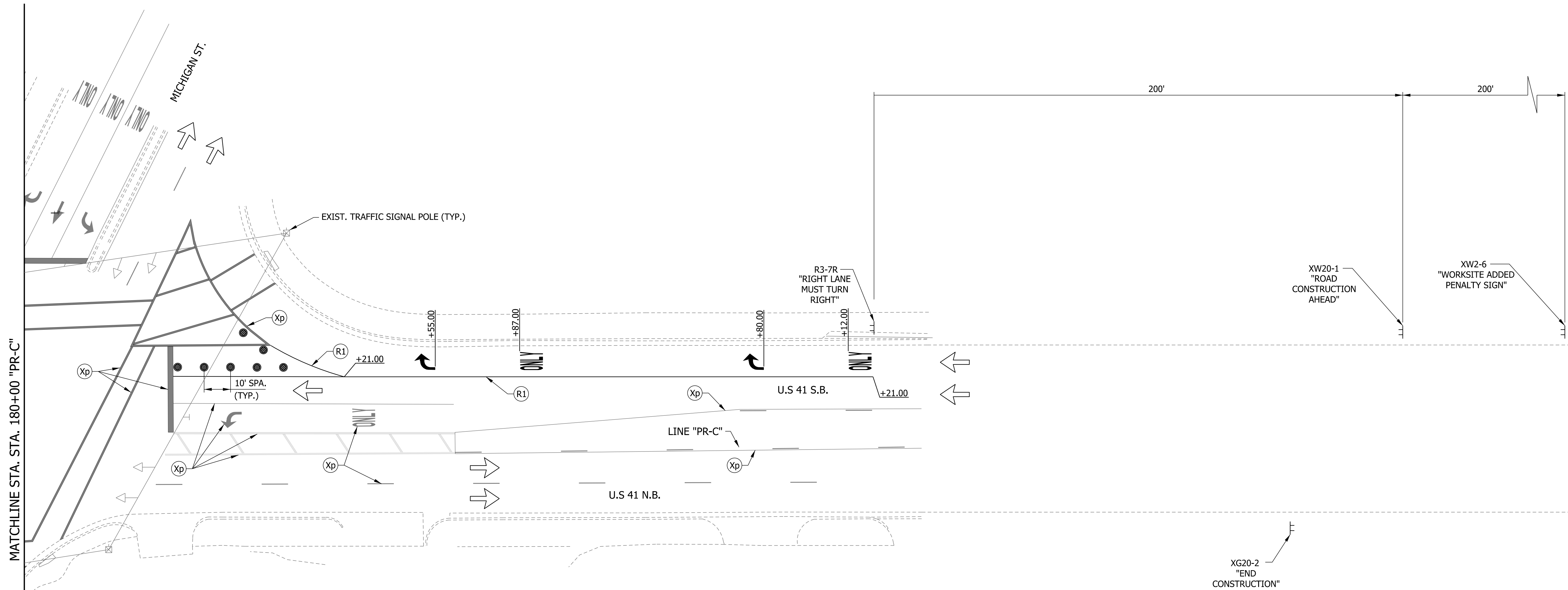
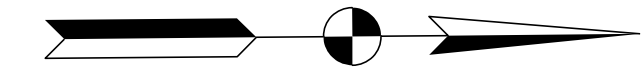
RECOMMENDED FOR APPROVAL *J. Patrick Duncan* 08/16/17  
 DESIGN ENGINEER DATE

DESIGNED: MAE DRAWN: JWM  
 CHECKED: LDW CHECKED: MAE

INDIANA  
 DEPARTMENT OF TRANSPORTATION

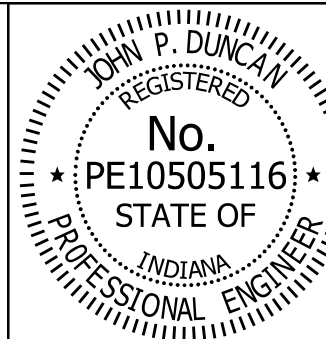
MAINTENANCE OF TRAFFIC DETAILS  
 PHASE III

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	41-45-02073B
VERTICAL SCALE	DESIGNATION
N/A	1172245
SURVEY BOOK	SHEETS
	19 of 86
CONTRACT	PROJECT
B-36676	1172245



LEGEND

- (T1) TEMP. PAVEMENT MARKING, 4 IN., (WHITE)
- (T2) TEMP. PAVEMENT MARKING, 4 IN., (YELLOW)
- (R1) TEMP. PAVEMENT MARKING, REMOVABLE, 4 IN., (WHITE)
- (R2) TEMP. PAVEMENT MARKING, REMOVABLE, 4 IN., (YELLOW)
- (R3) TEMP. TRANSVERSE PAVEMENT MARKING, REMOVABLE, 24", (WHITE)
- (Xp) EXISTING PAVEMENT MARKING
- ↩ TEMP. PAVEMENT MESSAGE MARKING, REMOVABLE, LANE INDICATION ARROW
- ONLY TEMP. PAVEMENT MESSAGE MARKING, REMOVABLE, (ONLY)
- ⏏ CONSTRUCTION SIGN
- CHANNELIZING DEVICE
- ▤ TEMPORARY TRAFFIC BARRIER TYPE 2
- ▬ TYPE III-A BARRICADE
- x-x-x EXISTING PAVEMENT MARKING REMOVAL
- ← TRAFFIC FLOW DIRECTION ARROW
- ▨ WORK ZONE



RECOMMENDED FOR APPROVAL *J. Patrick Duncan* 08/16/17  
 DESIGN ENGINEER

DESIGNED: MAE DRAWN: JWM  
 CHECKED: LDW CHECKED: MAE

INDIANA  
 DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC DETAILS  
 PHASE III

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	41-45-02073B
VERTICAL SCALE	DESIGNATION
N/A	1172245
SURVEY BOOK	SHEETS
	20 of 86
CONTRACT	PROJECT
B-36676	1172245

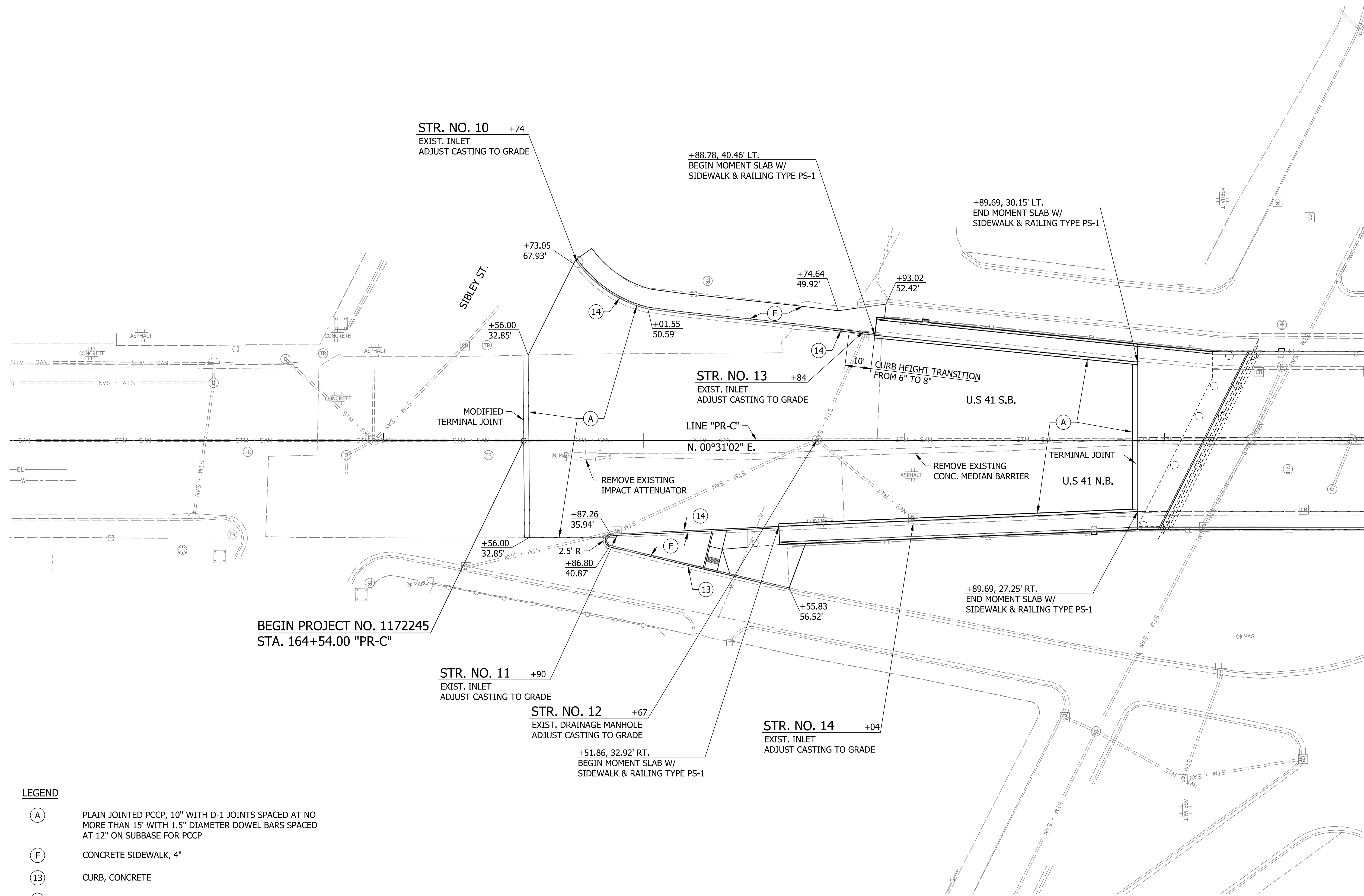
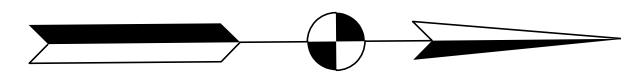
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164

165

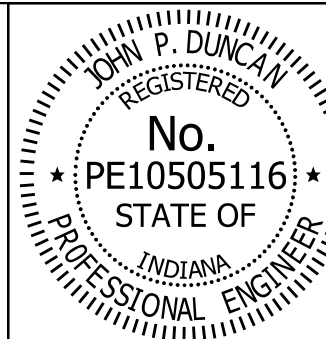
166

167



**LEGEND**

- (A) PLAIN JOINTED PCCP, 10" WITH D-1 JOINTS SPACED AT NO MORE THAN 15' WITH 1.5" DIAMETER DOWEL BARS SPACED AT 12" ON SUBBASE FOR PCCP
- (F) CONCRETE SIDEWALK, 4"
- (13) CURB, CONCRETE
- (14) INTEGRAL CONCRETE CURB



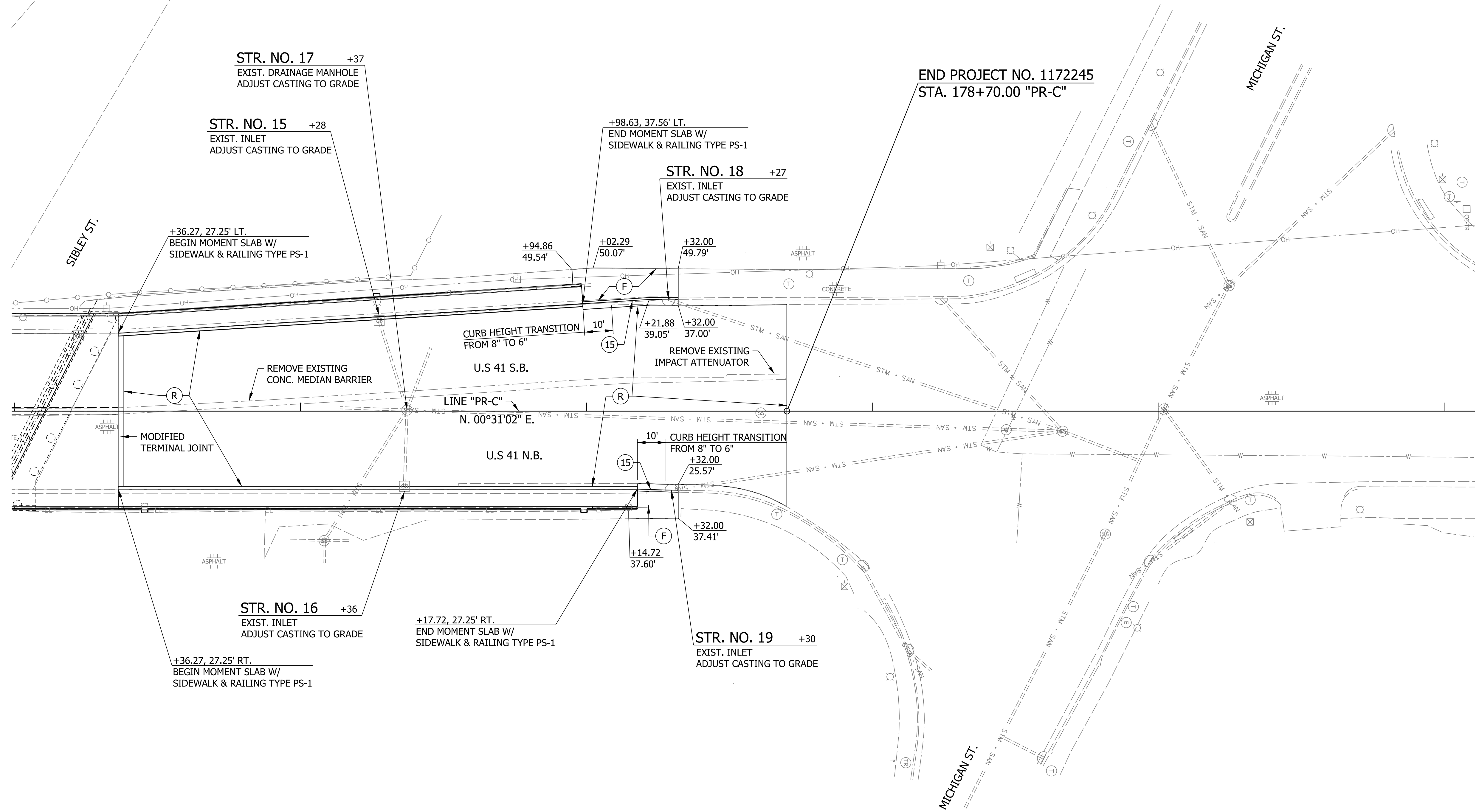
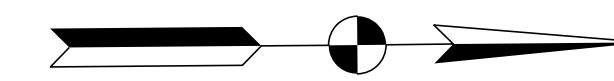
RECOMMENDED FOR APPROVAL *J. Patrick Duncan* 08/16/17  
DESIGN ENGINEER DATE

DESIGNED: MAE DRAWN: JWM  
CHECKED: LDW CHECKED: MAE

INDIANA  
DEPARTMENT OF TRANSPORTATION

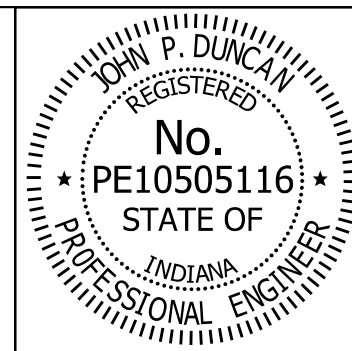
**CONSTRUCTION DETAIL**

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	41-45-02073B
VERTICAL SCALE	DESIGNATION
N/A	1172245
SURVEY BOOK	SHEETS
	21 of 86
CONTRACT	PROJECT
B-36676	1172245



LEGEND

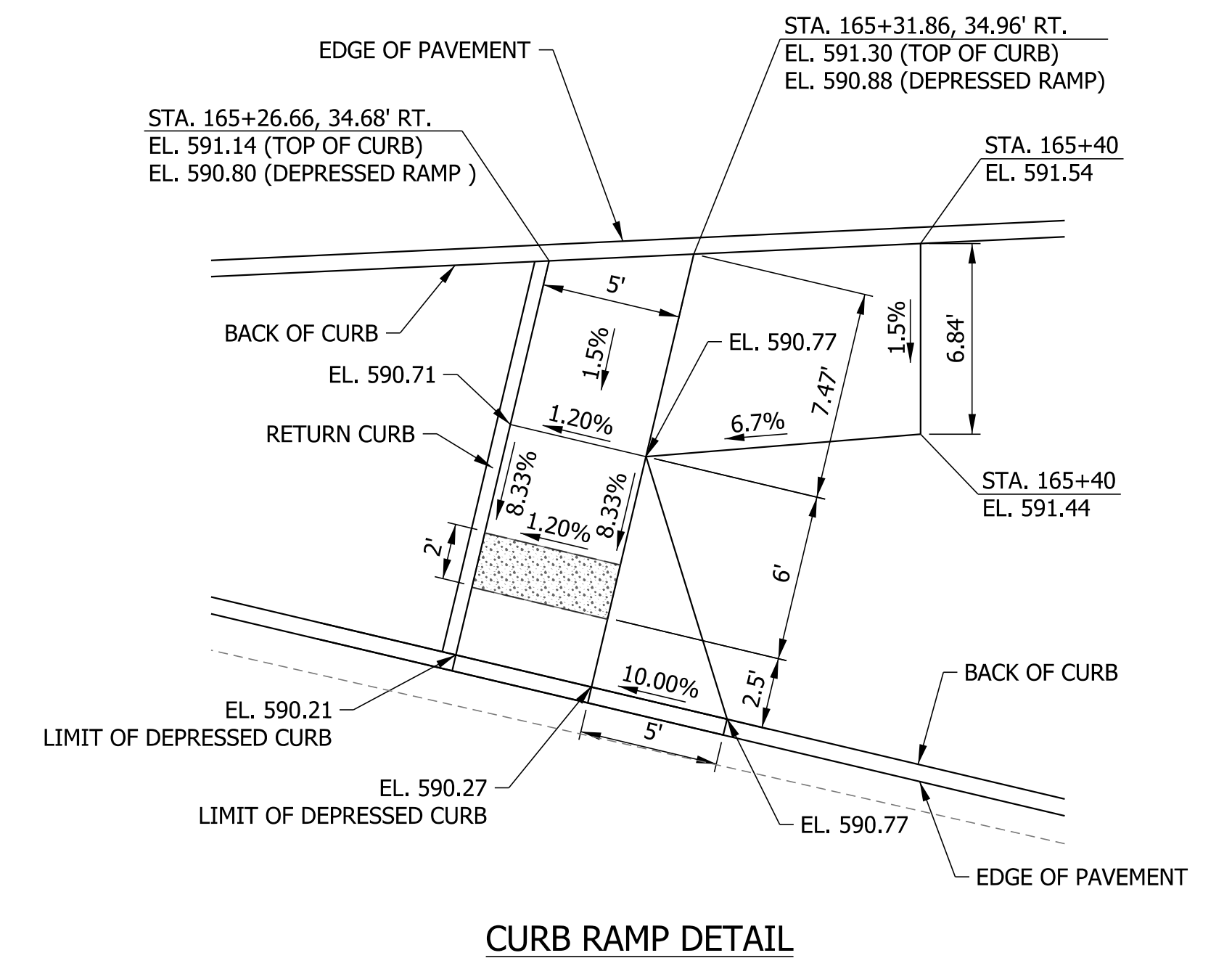
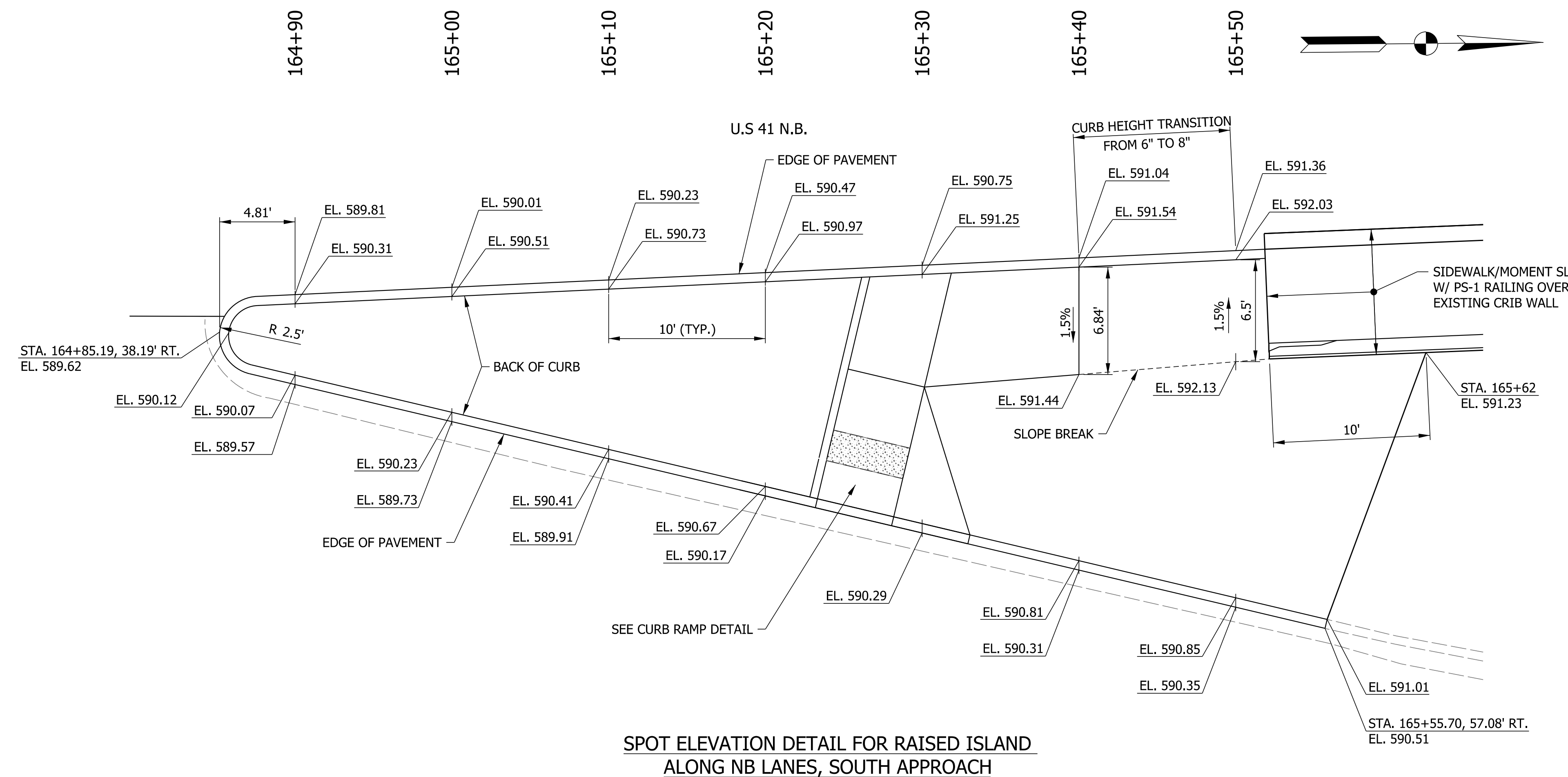
- (F) CONCRETE SIDEWALK, 4"
- (R) 165 #/SYS QC/QA HMA, 3, 70, SURFACE, 9.5 mm ON TRANSITION MILLING (1.5" MAX.)
- (15) COMBINED CONCRETE CURB & GUTTER



RECOMMENDED FOR APPROVAL	<i>J. Patrick Duncan</i>	DESIGN ENGINEER	08/16/17
DESIGNED:	MAE	DRAWN:	JWM
CHECKED:	LDW	CHECKED:	MAE

INDIANA DEPARTMENT OF TRANSPORTATION	
<b>CONSTRUCTION DETAIL</b>	

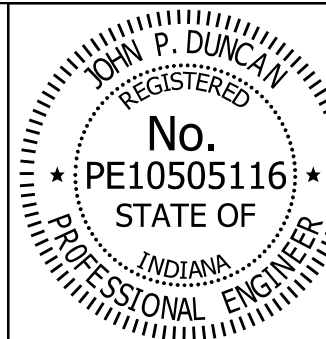
HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	41-45-02073B
VERTICAL SCALE	DESIGNATION
N/A	1172245
SURVEY BOOK	SHEETS
	22 of 86
CONTRACT	PROJECT
B-36676	1172245



SPOT ELEVATION DETAIL FOR RAISED ISLAND  
ALONG NB LANES, SOUTH APPROACH

CURB RAMP DETAIL

- NOTES:  
1. STATION AND OFFSETS SHOWN ARE TAKEN FROM LINE "PR-C".



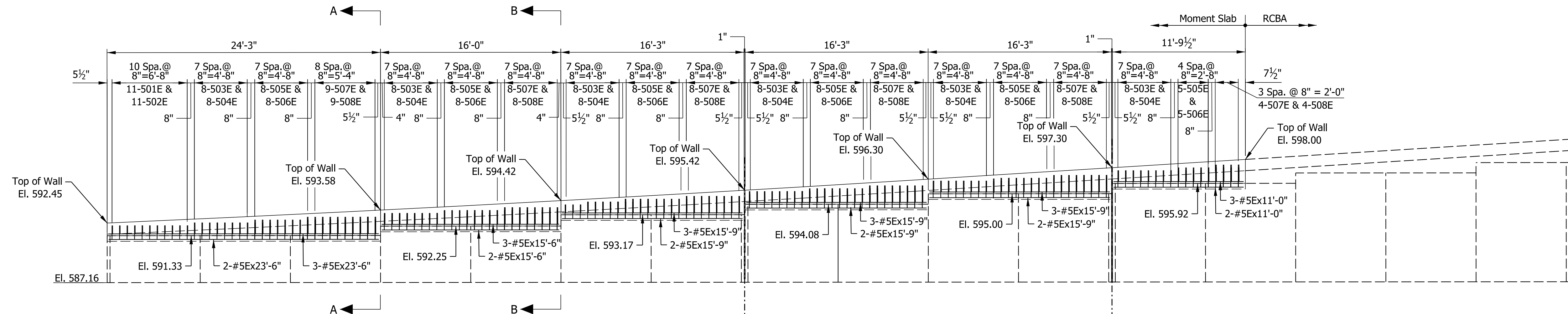
RECOMMENDED FOR APPROVAL *J. Patrick Duncan* 08/16/17  
DESIGN ENGINEER DATE

DESIGNED: MAE DRAWN: JWM  
CHECKED: LDW CHECKED: MAE

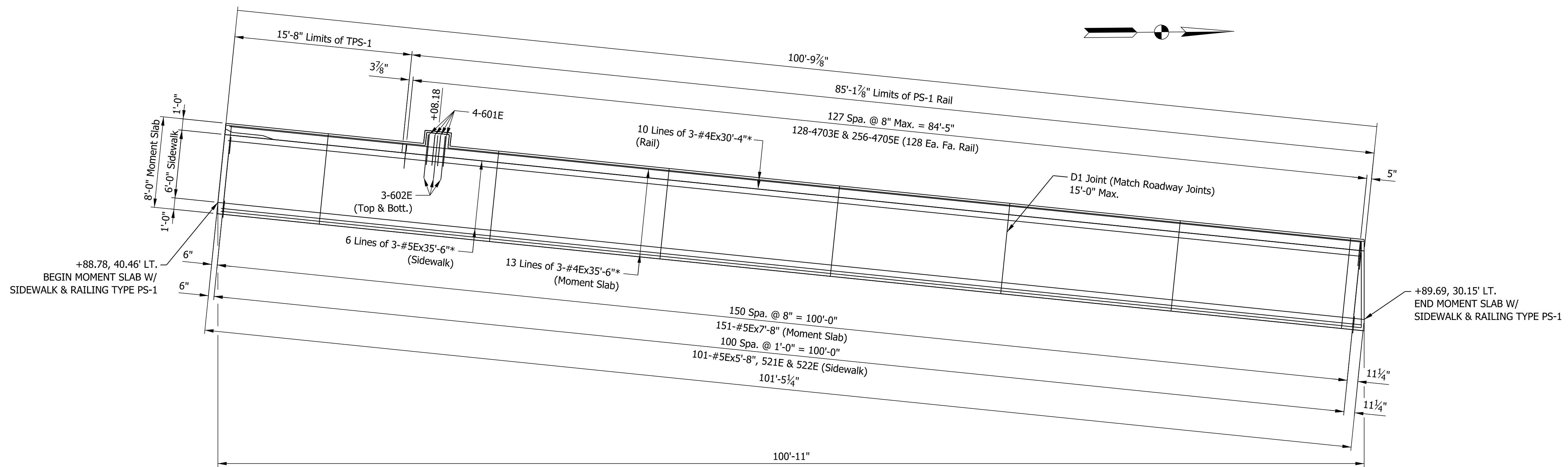
INDIANA  
DEPARTMENT OF TRANSPORTATION

SPOT ELEVATION DETAILS

HORIZONTAL SCALE	BRIDGE FILE
1" = 5'	41-45-02073B
VERTICAL SCALE	DESIGNATION
N/A	1172245
SURVEY BOOK	SHEETS
	23 of 86
CONTRACT	PROJECT
B-36676	1172245



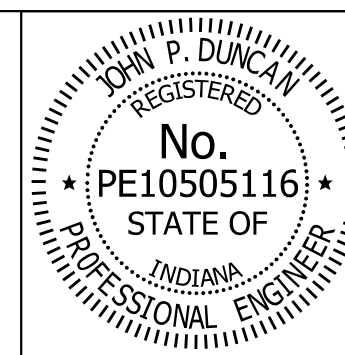
SOUTHWEST ELEVATION



SOUTHWEST PLAN

NOTES

1. For Sections A-A & B-B, See Sheet 28.



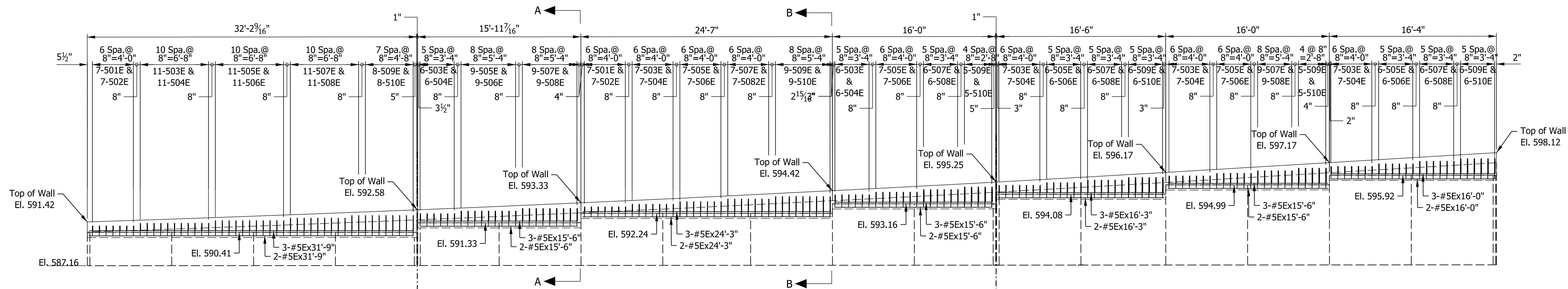
RECOMMENDED FOR APPROVAL	<i>J. Patrick Duncan</i>	DESIGN ENGINEER	08/16/17
DESIGNED:	CMB	DRAWN:	SWB
CHECKED:	JPD	CHECKED:	JPD

INDIANA  
DEPARTMENT OF TRANSPORTATION

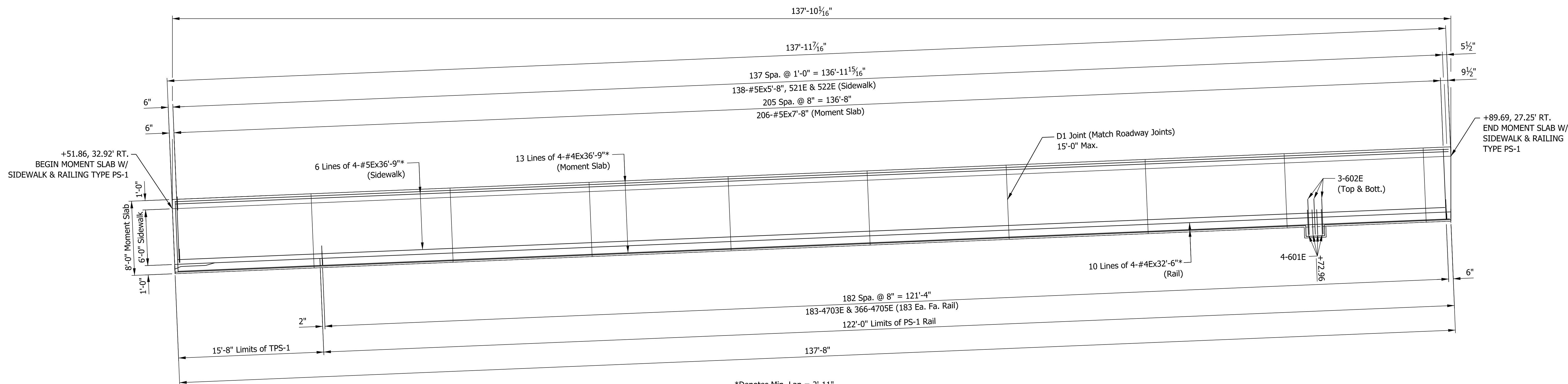
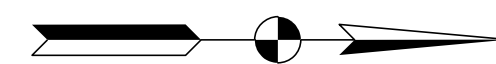
APPROACH WALL DETAILS

HORIZONTAL SCALE	BRIDGE FILE
3/16" = 1'-0"	41-45-02073B
VERTICAL SCALE	DESIGNATION
3/16" = 1'-0"	1172245
SURVEY BOOK	SHEETS
	24 of 86
CONTRACT	PROJECT
B-36676	1172245





SOUTHEAST ELEVATION

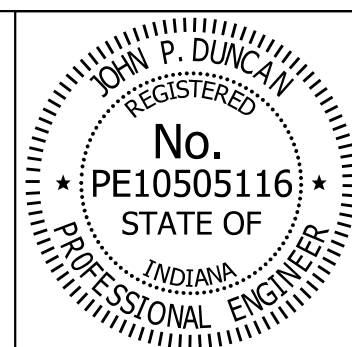


SOUTHEAST PLAN

\*Denotes Min. Lap = 2'-11"

NOTES

1. For Sections A-A & B-B, See Sheet 28.

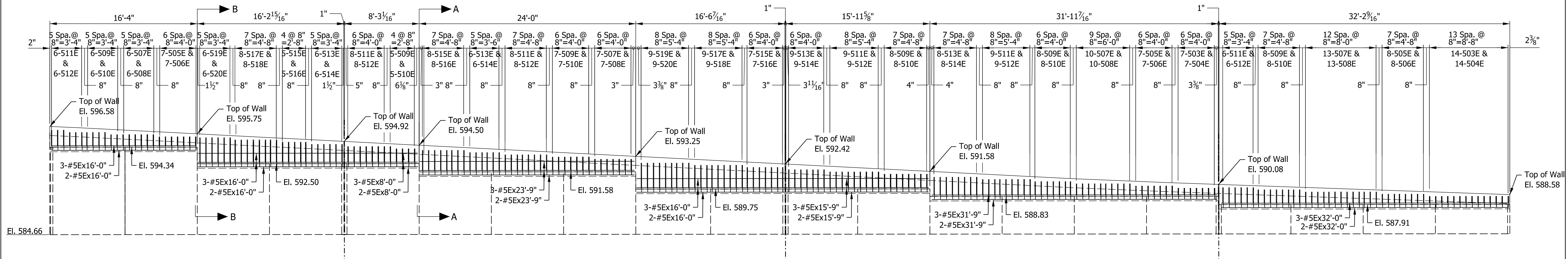


RECOMMENDED FOR APPROVAL *J. Patrick Duncan* 08/16/17  
 DESIGN ENGINEER DATE  
 DESIGNED: CMB DRAWN: SWB  
 CHECKED: JPD CHECKED: JPD

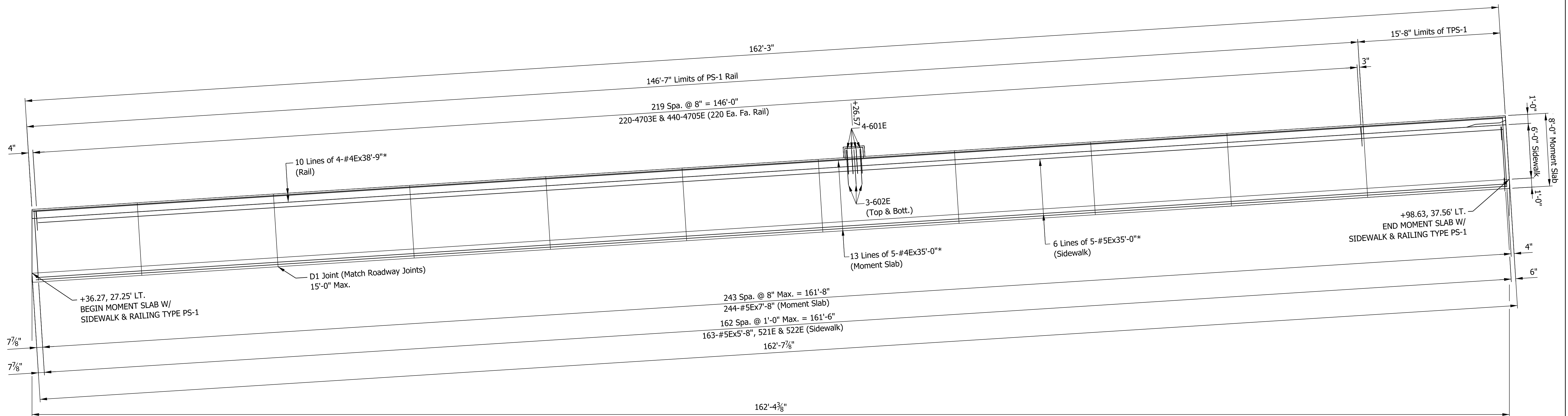
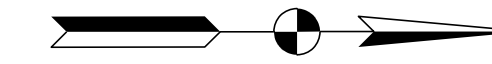
INDIANA  
 DEPARTMENT OF TRANSPORTATION

APPROACH WALL DETAILS

HORIZONTAL SCALE	BRIDGE FILE
3/16" = 1'-0"	41-45-02073B
VERTICAL SCALE	DESIGNATION
3/16" = 1'-0"	1172245
SURVEY BOOK	SHEETS
	25 of 86
CONTRACT	PROJECT
B-36676	1172245



NORTHWEST ELEVATION



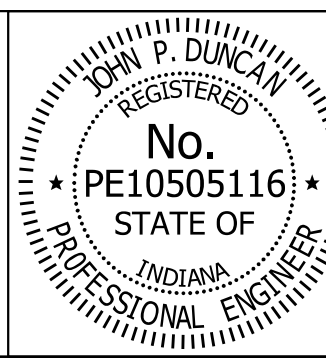
\*Denotes Min. Lap = 2'-11"

NORTHWEST PLAN

NOTES

1. For Sections A-A & B-B, See Sheet 28.

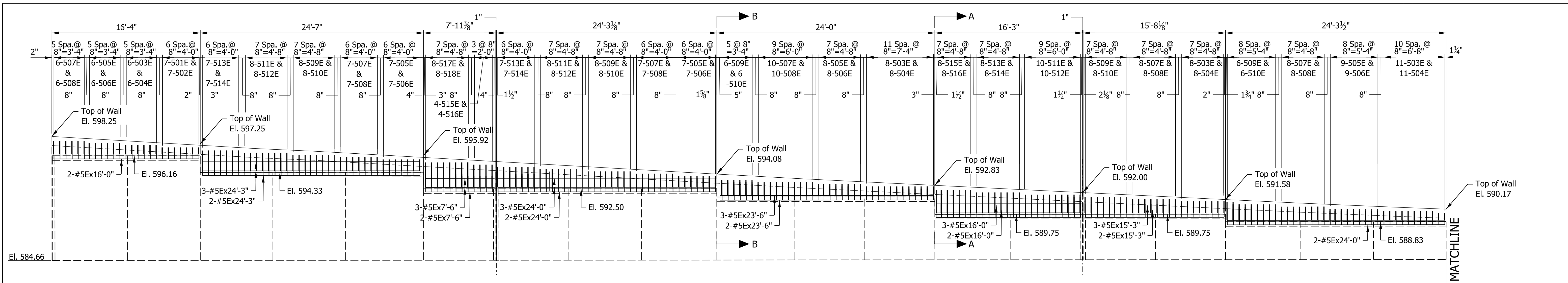
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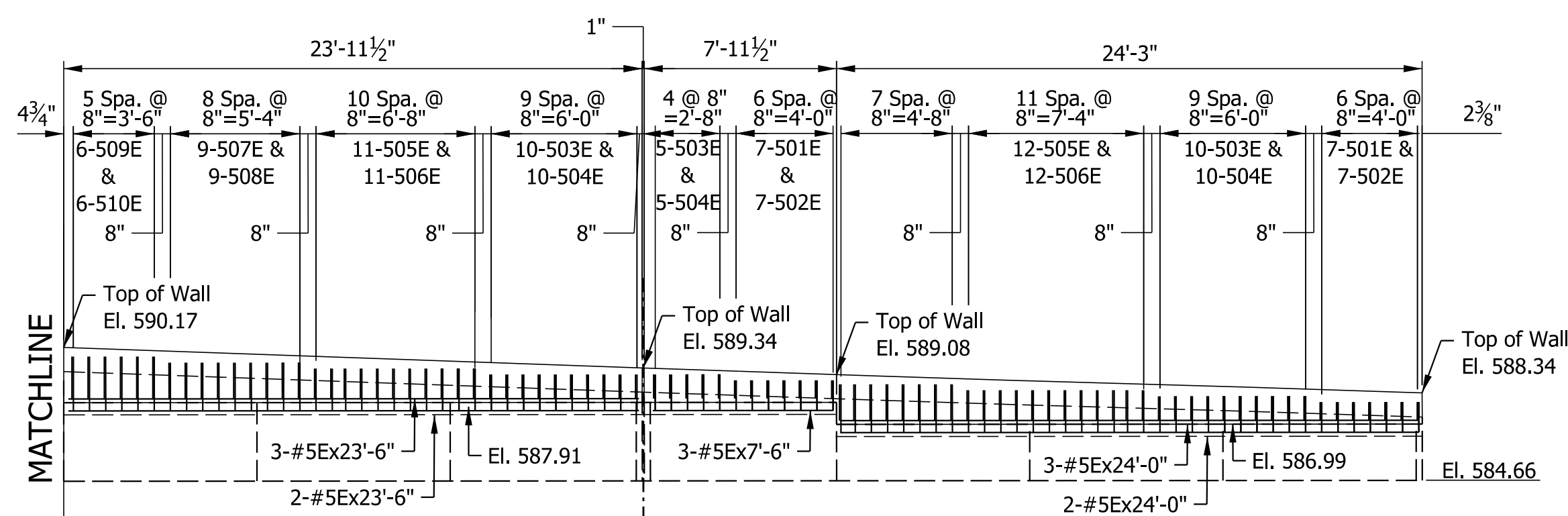
RECOMMENDED FOR APPROVAL	<i>J. Patrick Duncan</i>	DESIGN ENGINEER	08/16/17
DESIGNED:	CMB	DRAWN:	SWB
CHECKED:	JPD	CHECKED:	JPD

INDIANA DEPARTMENT OF TRANSPORTATION	
APPROACH WALL DETAILS	

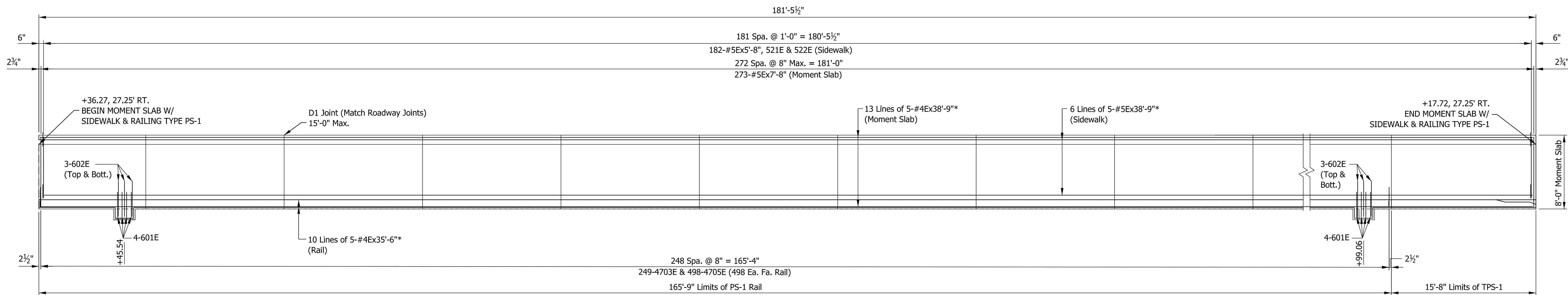
HORIZONTAL SCALE	BRIDGE FILE
3/16" = 1'-0"	41-45-02073B
VERTICAL SCALE	DESIGNATION
3/16" = 1'-0"	1172245
SURVEY BOOK	SHEETS
	26 of 86
CONTRACT	PROJECT
B-36676	1172245



NORTHEAST ELEVATION



NORTHEAST ELEVATION (CONT.)



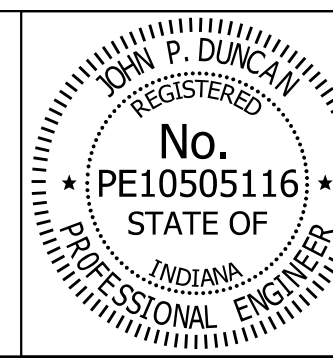
\*Denotes Min. Lap = 2'-11"

NORTHEAST PLAN

NOTES

1. For Sections A-A & B-B, See Sheet 28.

FILES

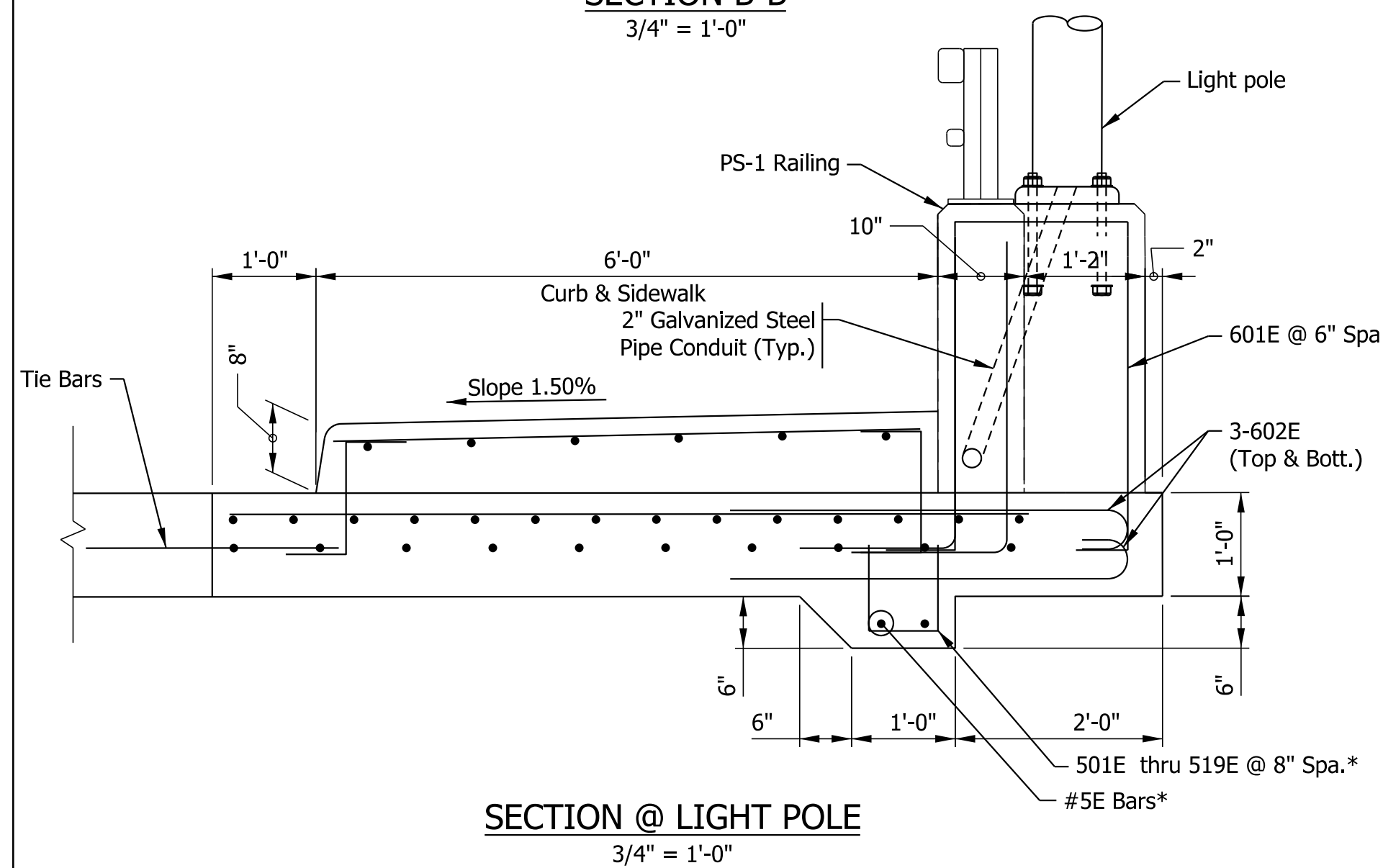
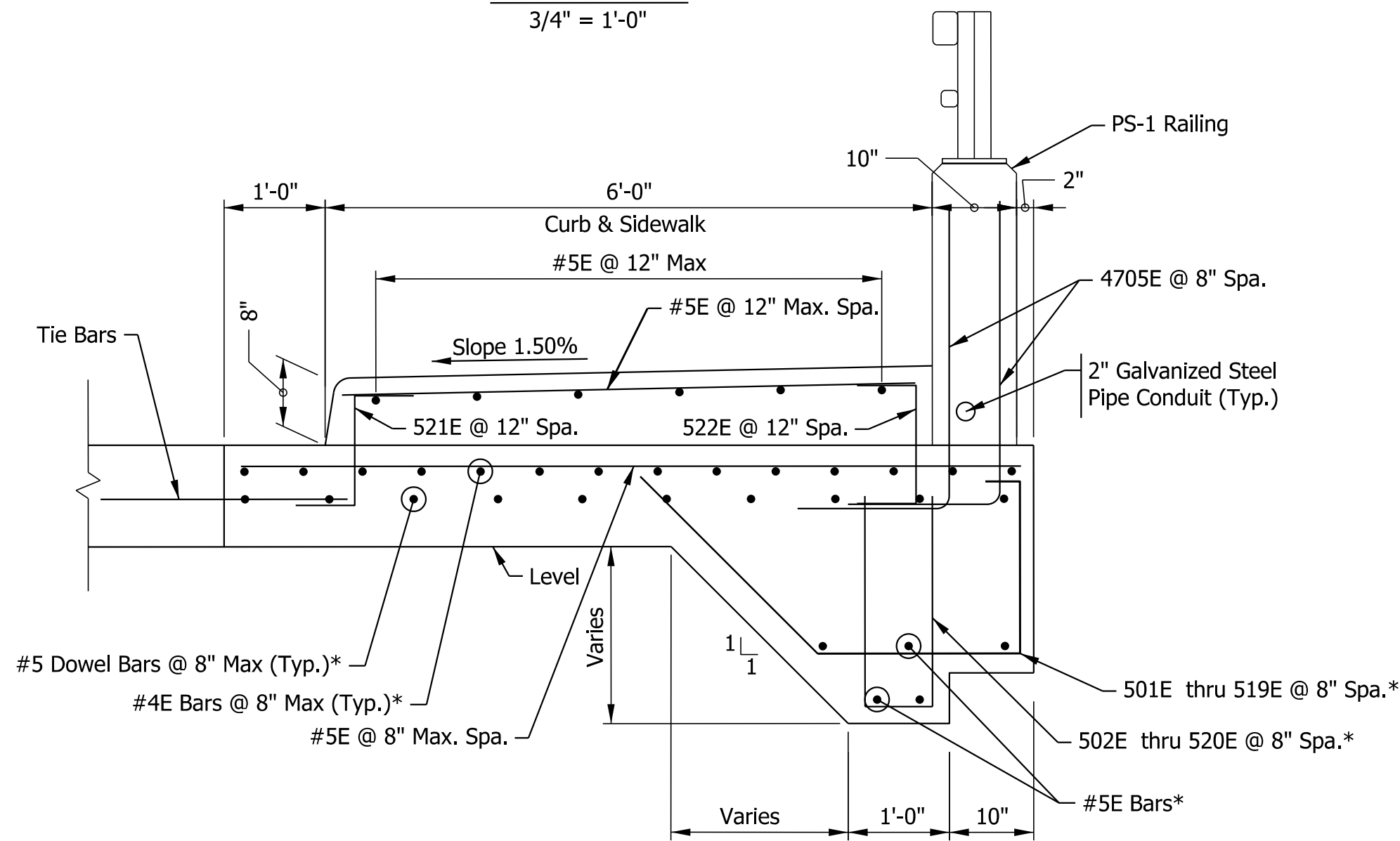
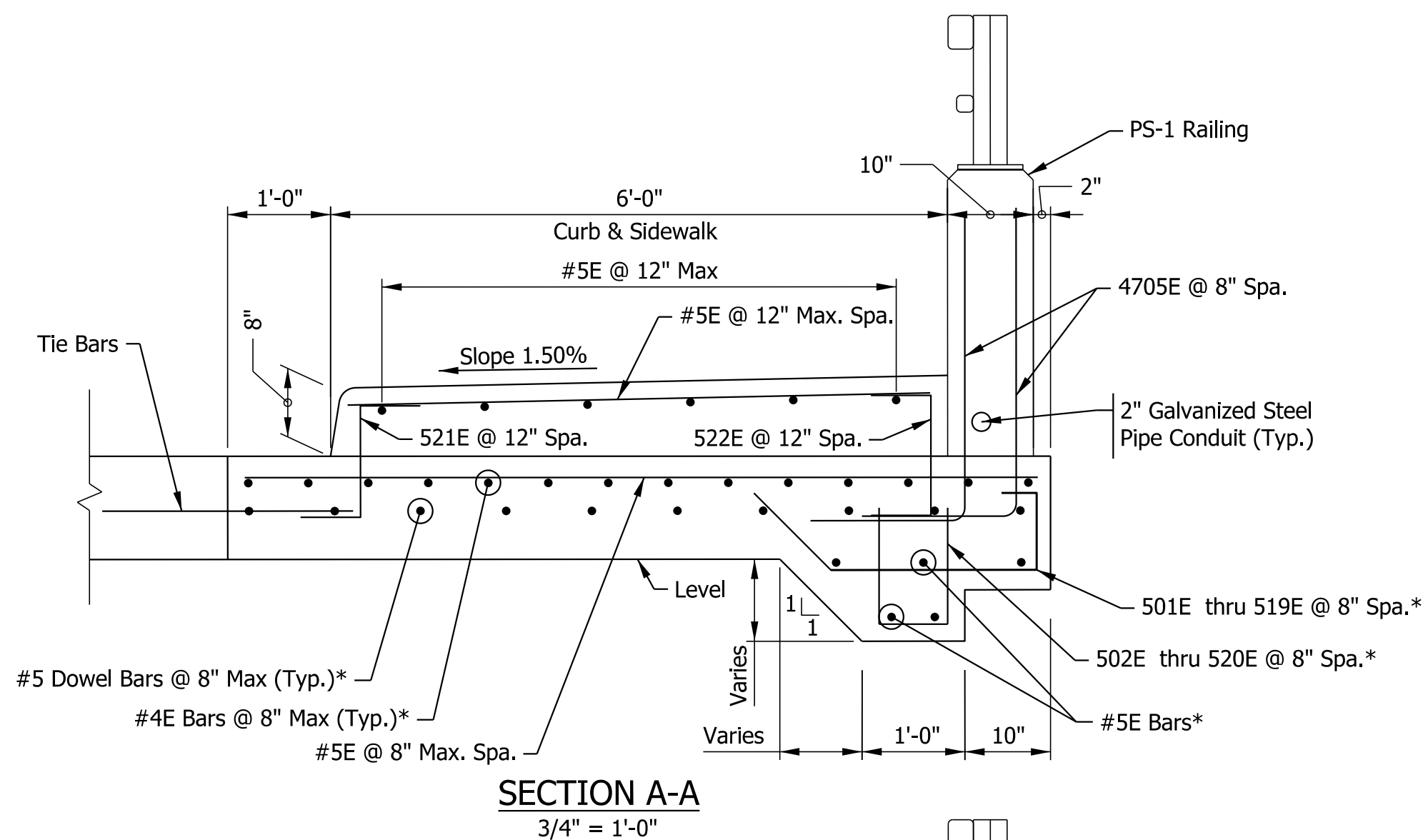


RECOMMENDED FOR APPROVAL	<i>J. Patrick Duncan</i>	DESIGN ENGINEER	08/16/17	DATE
DESIGNED:	CMB	DRAWN:	SWB	
CHECKED:	JPD	CHECKED:	JPD	

INDIANA  
DEPARTMENT OF TRANSPORTATION

APPROACH WALL DETAILS

HORIZONTAL SCALE	BRIDGE FILE
3/16" = 1'-0"	41-45-02073B
VERTICAL SCALE	DESIGNATION
3/16" = 1'-0"	1172245
SURVEY BOOK	SHEETS
	27 of 86
CONTRACT	PROJECT
B-36676	1172245



**BILL OF MATERIALS  
NORTHWEST APPROACH  
REINFORCING BARS, EPOXY COATED**

SIZE OR MARK	NO. OF BARS	LENGTH (FT. - IN.)	WEIGHT (LBS)
601E	4	10'-0"	
602E	6	4'-8"	
TOTAL #6E BARS			102
521E	163	2'-3"	
522E	163	2'-4"	
#5	30	35'-0"	
#5	163	5'-8"	
TOTAL #5E BARS			2838
4703E	220	3'-11"	
4705E	440	4'-6"	
#4	40	38'-9"	
TOTAL #4E BARS			2934
BRIDGE RAILING TRANSITION, TPS-1			789
TOTAL EPOXY COATED REINFORCING STEEL			6663
<b>CONCRETE</b>			
CONCRETE, C, SUPERSTRUCTURE			32.9 CYS
<b>MISCELLANEOUS</b>			
BRIDGE RAILING TRANSITION, TPS-1			1 EACH
CONCRETE MOMENT SLAB, 12 IN.			145 SYS
RAILING, CONCRETE PS-1			147 LFT
RAILING, STEEL PS-1			151 LFT
SURFACE SEAL			2530 SFT
RETROFITTED TIE BARS			162 EACH

**BILL OF MATERIALS  
NORTHEAST APPROACH  
REINFORCING BARS, EPOXY COATED**

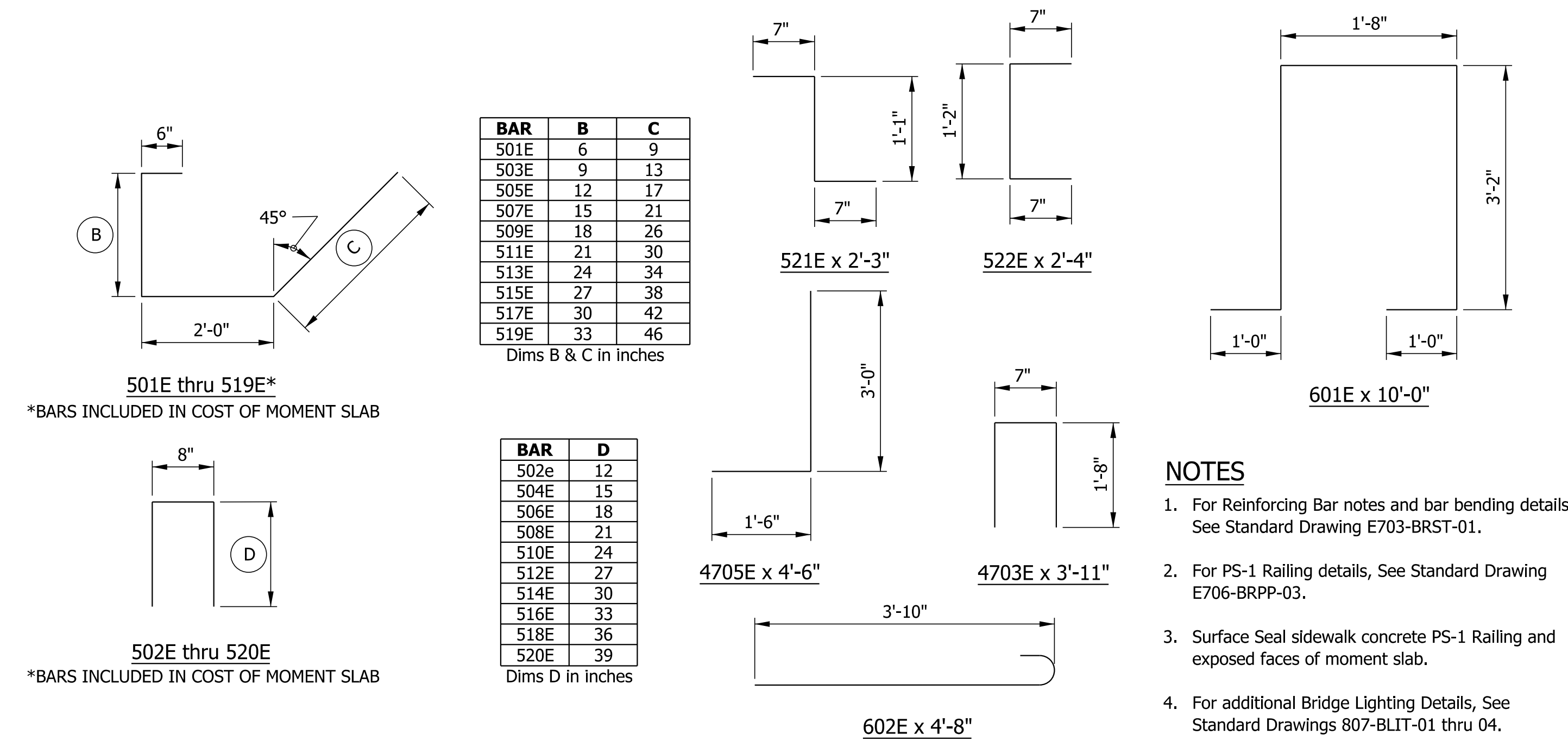
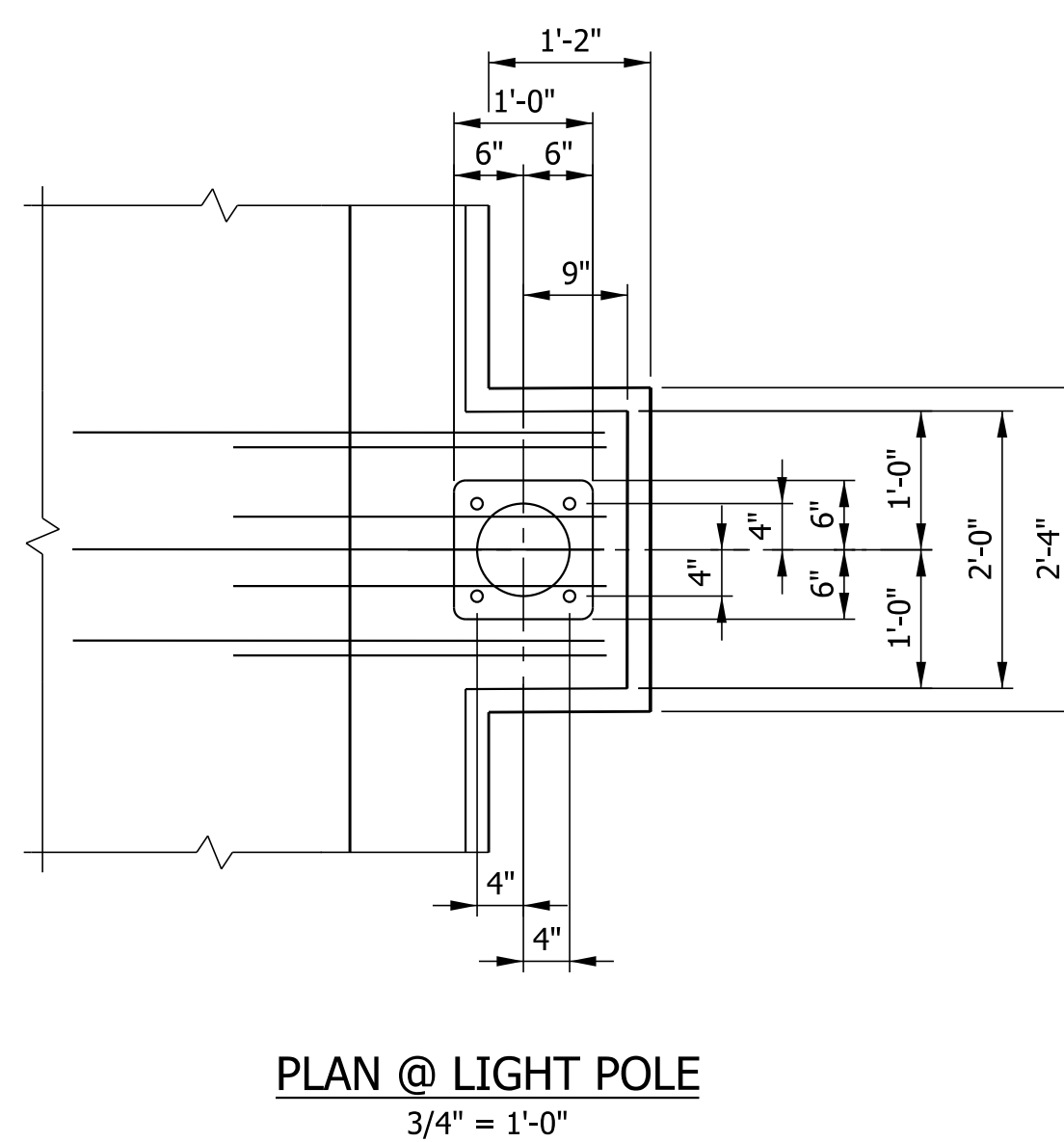
SIZE OR MARK	NO. OF BARS	LENGTH (FT. - IN.)	WEIGHT (LBS)
601E	8	10'-0"	
602E	12	4'-8"	
TOTAL #6E BARS			204
521E	182	2'-3"	
522E	182	2'-4"	
#5	30	38'-9"	
#5	182	5'-8"	
TOTAL #5E BARS			3158
4703E	249	3'-11"	
4705E	498	4'-6"	
#4	50	35'-6"	
TOTAL #4E BARS			3334
BRIDGE RAILING TRANSITION, TPS-1			789
TOTAL EPOXY COATED REINFORCING STEEL			7486
<b>CONCRETE</b>			
CONCRETE, C, SUPERSTRUCTURE			42.5 CYS
<b>MISCELLANEOUS</b>			
BRIDGE RAILING TRANSITION, TPS-1			1 EACH
CONCRETE MOMENT SLAB, 12 IN.			162 SYS
RAILING, CONCRETE PS-1			166 LFT
RAILING, STEEL PS-1			171 LFT
SURFACE SEAL			2820 SFT
RETROFITTED TIE BARS			181 EACH

**BILL OF MATERIALS  
SOUTHWEST APPROACH  
REINFORCING BARS, EPOXY COATED**

SIZE OR MARK	NO. OF BARS	LENGTH (FT. - IN.)	WEIGHT (LBS)
601E	4	10'-0"	
602E	6	4'-8"	
TOTAL #6E BARS			102
521E	101	2'-3"	
522E	101	2'-4"	
#5	18	35'-6"	
#5	101	5'-8"	
TOTAL #5E BARS			1746
4703E	128	3'-11"	
4705E	256	4'-6"	
#4	30	30'-4"	
TOTAL #4E BARS			1712
BRIDGE RAILING TRANSITION, TPS-1			789
TOTAL EPOXY COATED REINFORCING STEEL			4350
<b>CONCRETE</b>			
CONCRETE, C, SUPERSTRUCTURE			23.0 CYS
<b>MISCELLANEOUS</b>			
BRIDGE RAILING TRANSITION, TPS-1			1 EACH
CONCRETE MOMENT SLAB, 12 IN.			91 SYS
RAILING, CONCRETE PS-1			86 LFT
RAILING, STEEL PS-1			90 LFT
SURFACE SEAL			1600 SFT

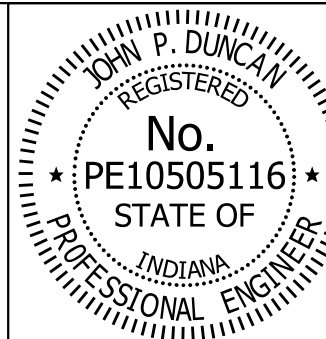
**BILL OF MATERIALS  
SOUTHEAST APPROACH  
REINFORCING BARS, EPOXY COATED**

SIZE OR MARK	NO. OF BARS	LENGTH (FT. - IN.)	WEIGHT (LBS)
601E	4	10'-0"	
602E	6	4'-8"	
TOTAL #6E BARS			102
521E	138	2'-3"	
522E	138	2'-4"	
#5	24	36'-9"	
#5	138	5'-8"	
TOTAL #5E BARS			2395
4703E	183	3'-11"	
4705E	366	4'-6"	
#4	40	32'-6"	
TOTAL #4E BARS			2447
BRIDGE RAILING TRANSITION, TPS-1			789
TOTAL EPOXY COATED REINFORCING STEEL			5734
<b>CONCRETE</b>			
CONCRETE, C, SUPERSTRUCTURE			28.9 CYS
<b>MISCELLANEOUS</b>			
BRIDGE RAILING TRANSITION, TPS-1			1 EACH
CONCRETE MOMENT SLAB, 12 IN.			123 SYS
RAILING, CONCRETE PS-1			122 LFT
RAILING, STEEL PS-1			127 LFT
SURFACE SEAL			2160 SFT



- NOTES**
- For Reinforcing Bar notes and bar bending details, See Standard Drawing E703-BRST-01.
  - For PS-1 Railing details, See Standard Drawing E706-BRPP-03.
  - Surface Seal sidewalk concrete PS-1 Railing and exposed faces of moment slab.
  - For additional Bridge Lighting Details, See Standard Drawings 807-BLIT-01 thru 04.

SFILES



RECOMMENDED FOR APPROVAL: *J. Patrick Duncan* DESIGN ENGINEER 08/16/17 DATE

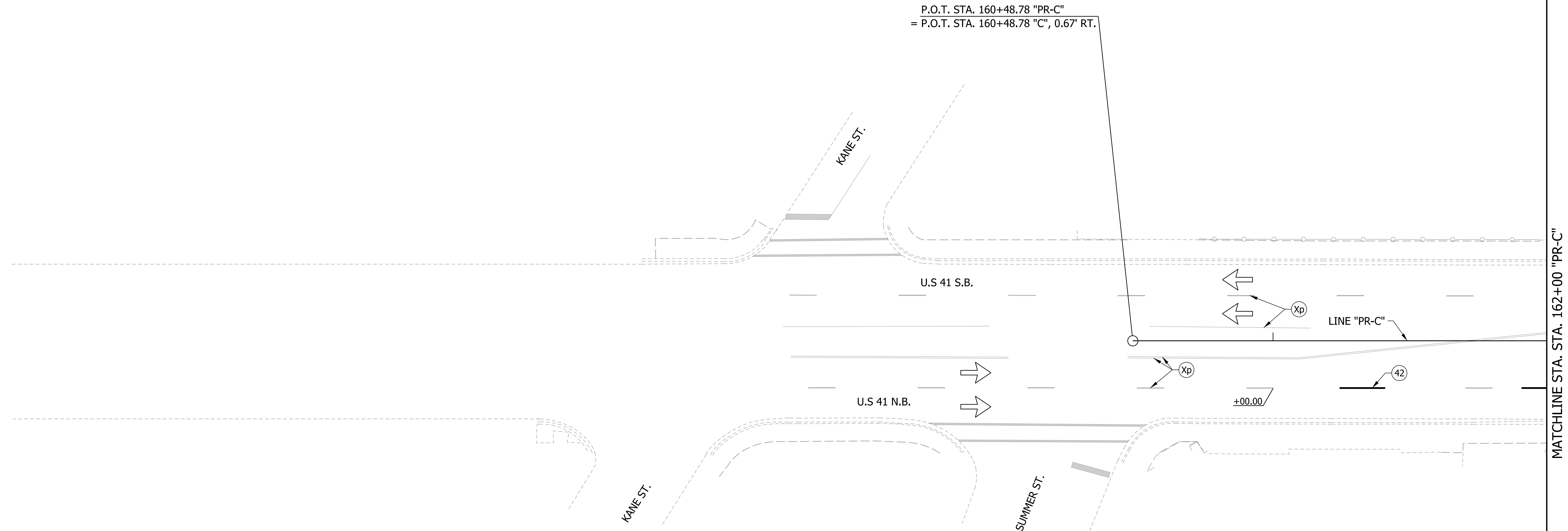
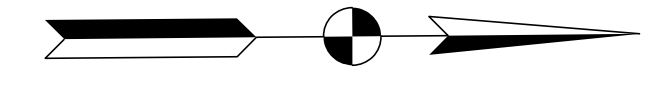
DESIGNED: CMB DRAWN: SWB

CHECKED: JPD CHECKED: JPD

INDIANA  
DEPARTMENT OF TRANSPORTATION

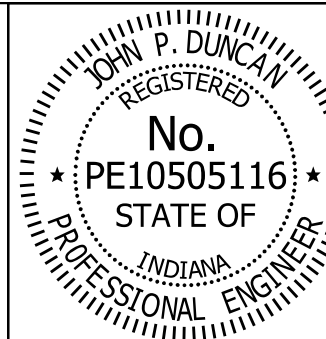
**APPROACH WALL DETAILS**

HORIZONTAL SCALE	BRIDGE FILE
AS NOTED	41-45-02073B
VERTICAL SCALE	DESIGNATION
AS NOTED	1172245
SURVEY BOOK	SHEETS
	28 of 86
CONTRACT	PROJECT
B-36676	1172245



LEGEND

- 40 LINE, MULTI-COMPONENT, SOLID, WHITE, 4 IN.
- 41 LINE, MULTI-COMPONENT, SOLID, YELLOW, 4 IN.
- 42 LINE, MULTI-COMPONENT, BROKEN, WHITE, 4 IN.
- 43 LINE, MULTI-COMPONENT, SOLID, WHITE, 8 IN.
- 44 TRANSVERSE MARKING, MULTI-COMPONENT, STOP LINE, WHITE, 24"
- Xp EXISTING PAVEMENT MARKING
- PAVEMENT MESSAGE MARKING, MULTI-COMPONENT, LANE INDICATION ARROW
- ONLY PAVEMENT MESSAGE MARKING, MULTI-COMPONENT, ONLY
- TRAFFIC FLOW DIRECTION ARROW



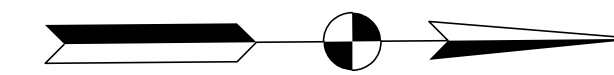
RECOMMENDED FOR APPROVAL *J. Patrick Duncan* 08/16/17  
DESIGN ENGINEER DATE

DESIGNED: MAE DRAWN: JWM  
CHECKED: LDW CHECKED: MAE

INDIANA  
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKINGS  
LINE "PR-C"

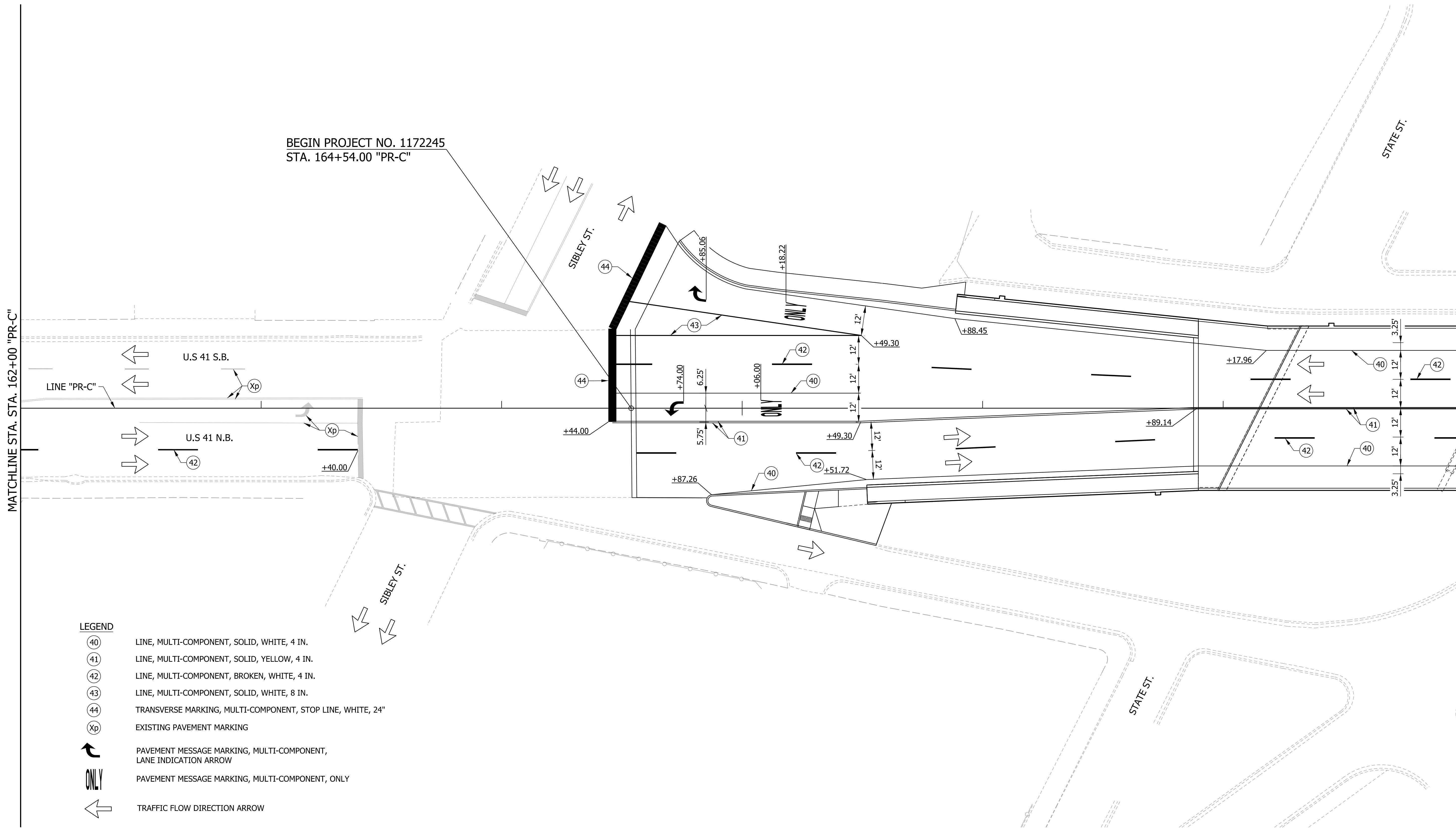
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1" = 20'	41-45-02073B
VERTICAL SCALE	DESIGNATION
N/A	1172245
SURVEY BOOK	SHEETS
	29 of 86
CONTRACT	PROJECT
B-36676	1172245



BEGIN PROJECT NO. 1172245  
STA. 164+54.00 "PR-C"

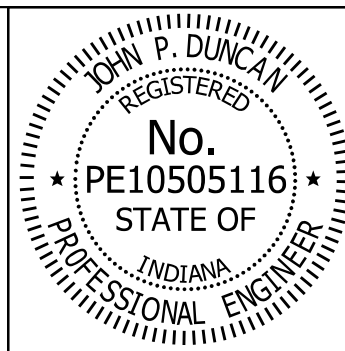
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MATCHLINE STA. 168+00 "PR-C"



LEGEND

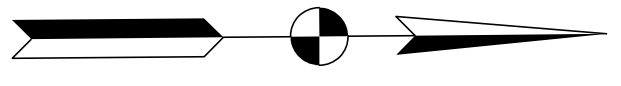
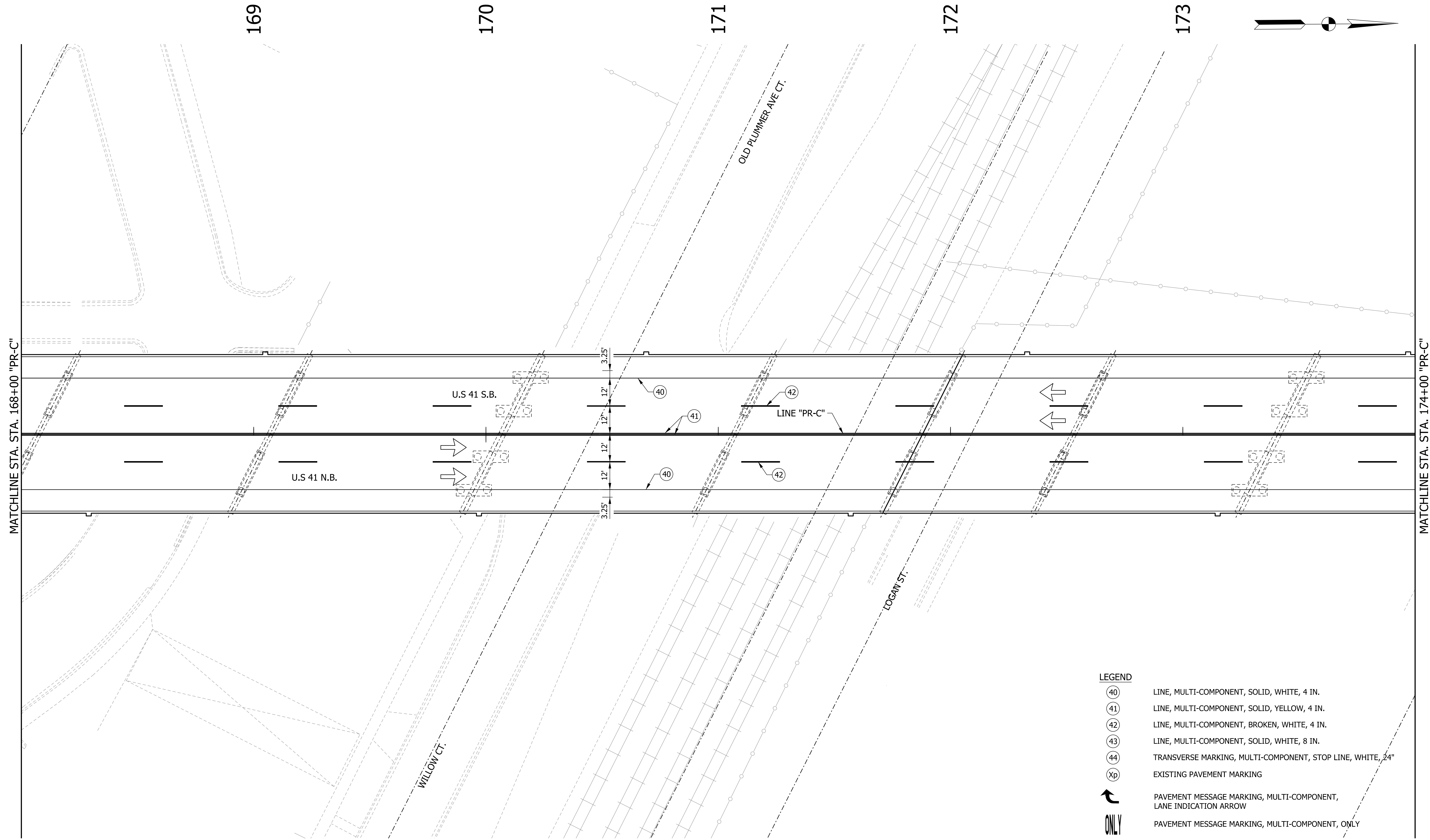
- (40) LINE, MULTI-COMPONENT, SOLID, WHITE, 4 IN.
- (41) LINE, MULTI-COMPONENT, SOLID, YELLOW, 4 IN.
- (42) LINE, MULTI-COMPONENT, BROKEN, WHITE, 4 IN.
- (43) LINE, MULTI-COMPONENT, SOLID, WHITE, 8 IN.
- (44) TRANSVERSE MARKING, MULTI-COMPONENT, STOP LINE, WHITE, 24"
- (Xp) EXISTING PAVEMENT MARKING
- PAVEMENT MESSAGE MARKING, MULTI-COMPONENT, LANE INDICATION ARROW
- PAVEMENT MESSAGE MARKING, MULTI-COMPONENT, ONLY
- TRAFFIC FLOW DIRECTION ARROW



RECOMMENDED FOR APPROVAL	<i>J. Patrick Duncan</i>	08/16/17
	DESIGN ENGINEER	DATE
DESIGNED: MAE	DRAWN: JWM	
CHECKED: LDW	CHECKED: MAE	

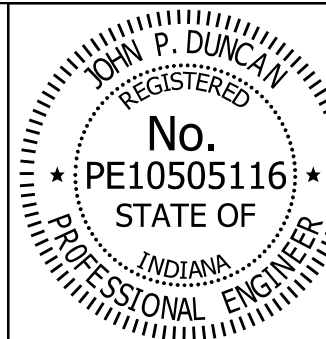
INDIANA DEPARTMENT OF TRANSPORTATION	
PAVEMENT MARKINGS LINE "PR-C"	

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	41-45-02073B
VERTICAL SCALE	DESIGNATION
N/A	1172245
SURVEY BOOK	SHEETS
	30 of 86
CONTRACT	PROJECT
B-36676	1172245



**LEGEND**

- (40) LINE, MULTI-COMPONENT, SOLID, WHITE, 4 IN.
- (41) LINE, MULTI-COMPONENT, SOLID, YELLOW, 4 IN.
- (42) LINE, MULTI-COMPONENT, BROKEN, WHITE, 4 IN.
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RECOMMENDED FOR APPROVAL *J. Patrick Duncan* 08/16/17  
DESIGN ENGINEER DATE

DESIGNED: MAE DRAWN: JWM  
 CHECKED: LDW CHECKED: MAE

**INDIANA**  
 DEPARTMENT OF TRANSPORTATION

**PAVEMENT MARKINGS**  
 LINE "PR-C"

HORIZONTAL SCALE 1" = 20'	BRIDGE FILE 41-45-02073B
VERTICAL SCALE N/A	DESIGNATION 1172245
SURVEY BOOK	SHEETS
CONTRACT B-36676	31 of 86 PROJECT 1172245

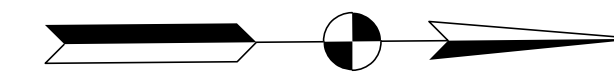
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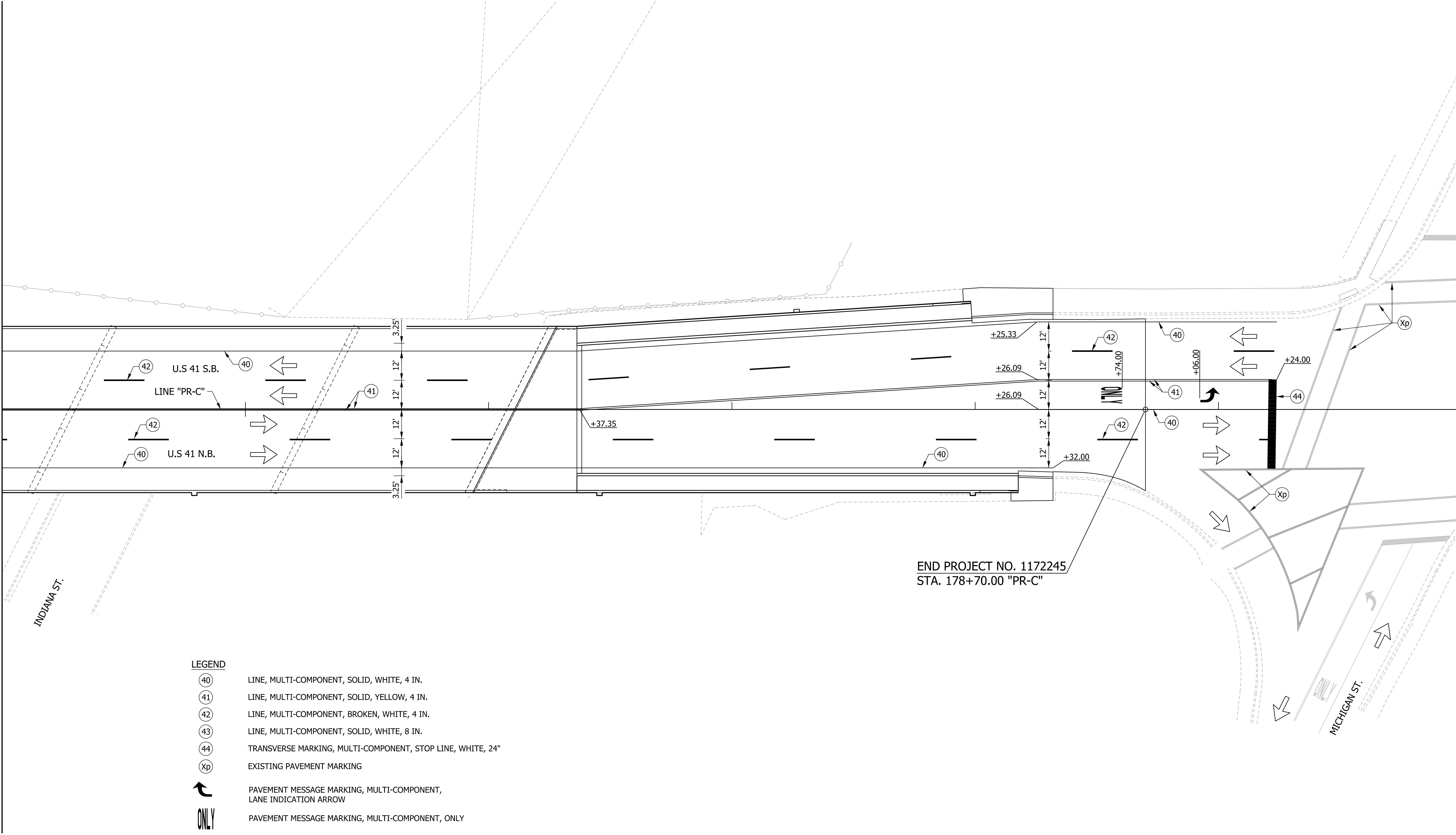
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179



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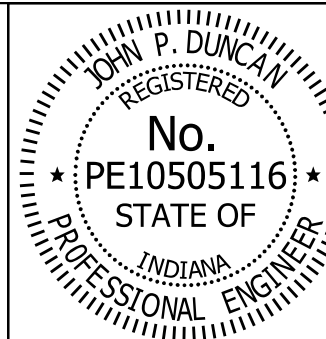
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END PROJECT NO. 1172245  
STA. 178+70.00 "PR-C"

LEGEND

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- (41) LINE, MULTI-COMPONENT, SOLID, YELLOW, 4 IN.
- (42) LINE, MULTI-COMPONENT, BROKEN, WHITE, 4 IN.
- (43) LINE, MULTI-COMPONENT, SOLID, WHITE, 8 IN.
- (44) TRANSVERSE MARKING, MULTI-COMPONENT, STOP LINE, WHITE, 24"
- Xp EXISTING PAVEMENT MARKING
- PAVEMENT MESSAGE MARKING, MULTI-COMPONENT, LANE INDICATION ARROW
- PAVEMENT MESSAGE MARKING, MULTI-COMPONENT, ONLY
- TRAFFIC FLOW DIRECTION ARROW



RECOMMENDED FOR APPROVAL *J. Patrick Duncan* 08/16/17  
DESIGN ENGINEER DATE

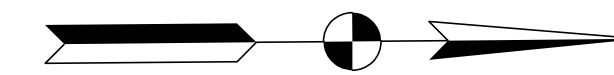
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CHECKED: LDW CHECKED: MAE

INDIANA  
DEPARTMENT OF TRANSPORTATION

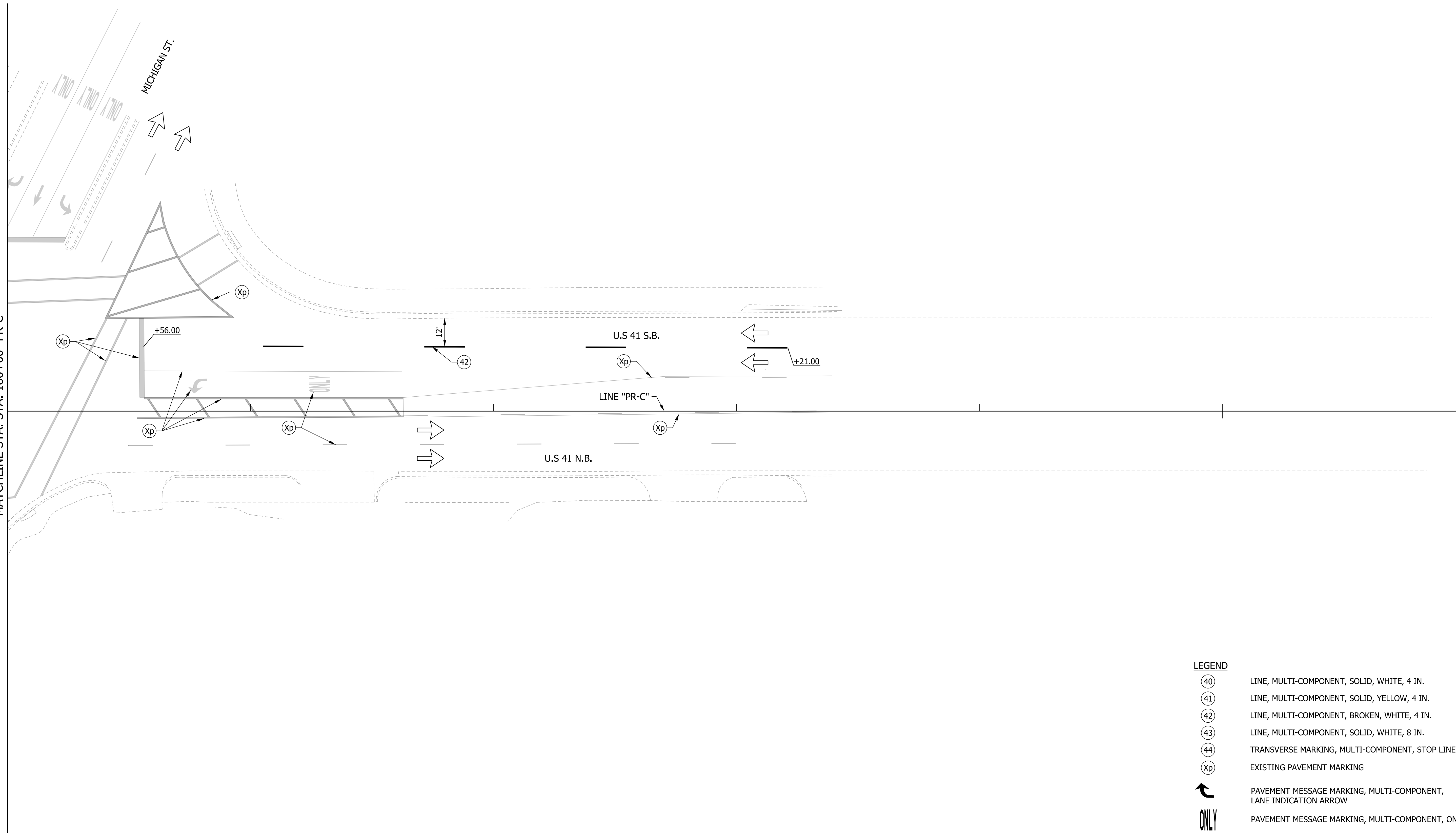
PAVEMENT MARKINGS  
LINE "PR-C"

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	41-45-02073B
VERTICAL SCALE	DESIGNATION
N/A	1172245
SURVEY BOOK	SHEETS
	32 of 86
CONTRACT	PROJECT
B-36676	1172245



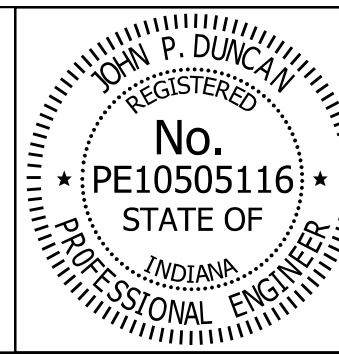


MATCHLINE STA. 180+00 "PR-C"



LEGEND

- (40) LINE, MULTI-COMPONENT, SOLID, WHITE, 4 IN.
- (41) LINE, MULTI-COMPONENT, SOLID, YELLOW, 4 IN.
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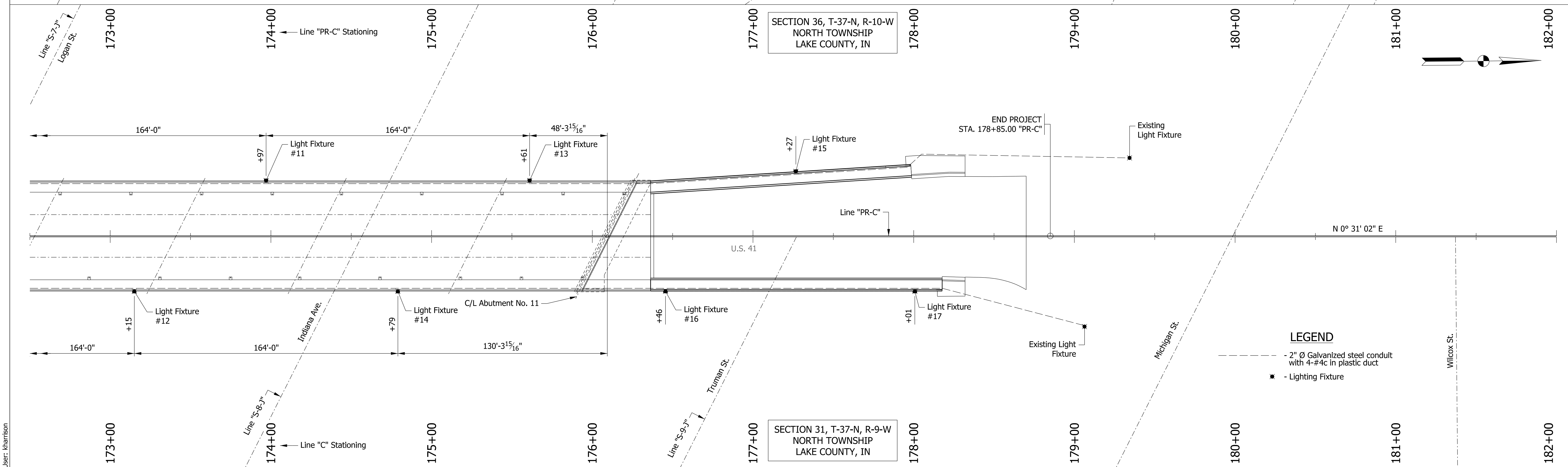
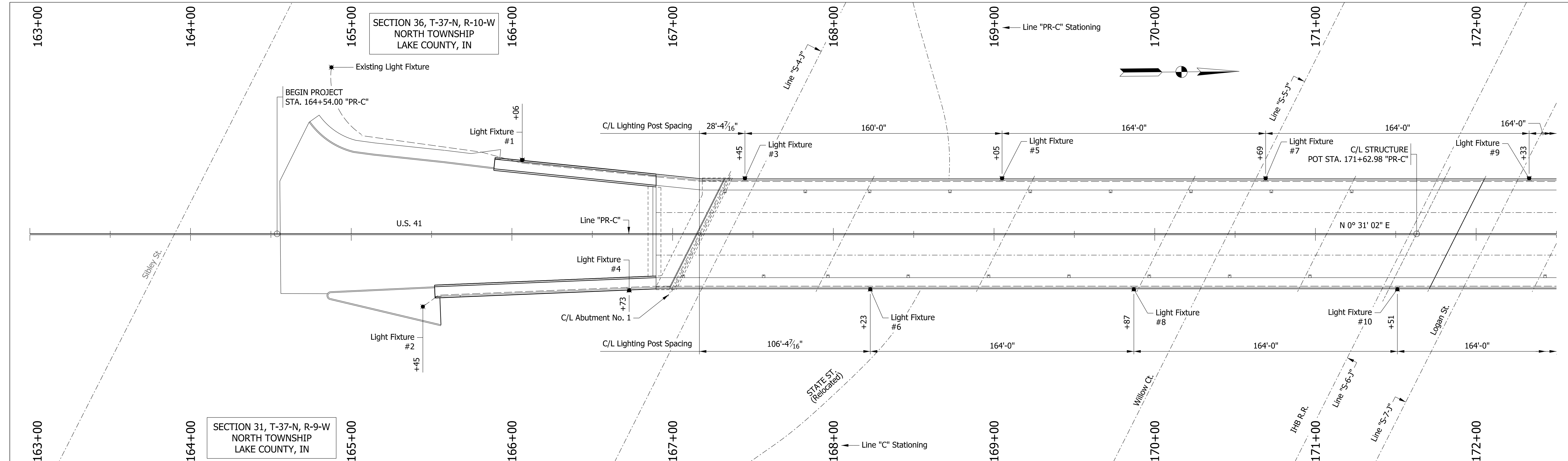
RECOMMENDED FOR APPROVAL *J. Patrick Duncan* 08/16/17  
 DESIGN ENGINEER DATE

DESIGNED: MAE DRAWN: JWM  
 CHECKED: LDW CHECKED: MAE

INDIANA  
 DEPARTMENT OF TRANSPORTATION

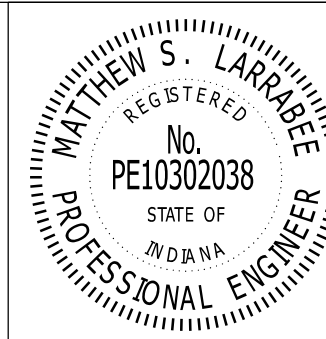
PAVEMENT MARKINGS  
 LINE "PR-C"

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	41-45-02073B
VERTICAL SCALE	DESIGNATION
N/A	1172245
SURVEY BOOK	SHEETS
	33 of 86
CONTRACT	PROJECT
B-36676	1172245



**LEGEND**

- - - 2" Ø Galvanized steel conduit with 4-#4c in plastic duct
- - Lighting Fixture



RECOMMENDED FOR APPROVAL: *Matthew S. Larkabee*, DESIGN ENGINEER, 8/16/2017, DATE

DESIGNED: MSL, DRAWN: BTS/PFC

CHECKED: SG, CHECKED: MSL

INDIANA DEPARTMENT OF TRANSPORTATION

**LIGHTING PLAN**

HORIZONTAL SCALE 1" = 30'	BRIDGE FILE 41-45-02073B
VERTICAL SCALE 1" = 30'	DESIGNATION 1172245
SURVEY BOOK ELECTRONIC	SHEETS 34 of 86
CONTRACT B-36676	PROJECT 1172245

Model: Lighting Plan 8/17/2017 10:28:02 AM User: kharrison

**SUMMARY OF LIGHTING QUANTITIES**

ITEM	CONDUIT, STEEL, GALVANIZED, 1 IN.	HANDHOLE, LIGHTING	WIRE, THW, NO. 4 CU, IN PLASTIC DUCT, 4-1/C	LIGHT STRUCTURE, REMOVE	JUNCTION BOX	CONDUIT, STEEL, GALVANIZED, 2 IN.	CONDUIT, FLEXIBLE, 2 IN.	LUMINAIRE, ROADWAY, LED 185 WATT	LIGHT POLE, ROADWAY, 30 FT EMH, 10 FT MAST ARM, ANCHOR BASE	CABLE, POLE, CIRCUIT, THWN, NO. 10 CU, STRANDED, 1/C	CONNECTOR KIT, UNFUSED	CONNECTOR KIT, FUSED	MULTIPLE COMPRESSION FITTING, NON-WATERPROOFED	MULTIPLE COMPRESSION FITTING, WATERPROOFED	INSULATING LINK, NON-WATERPROOFED	INSULATING LINK, WATERPROOFED
	LFT	EACH	LFT	EACH	EACH	LFT	LFT	EACH	EACH	LFT	EACH	EACH	EACH	EACH	EACH	EACH
Bridge No. 41-45-02073B	230	4	3,236	17	3	2836	80	17.0	17	850	17	17	34	17	34	17
<b>TOTALS</b>	<b>230</b>	<b>4</b>	<b>3,236</b>	<b>17</b>	<b>3</b>	<b>2836</b>	<b>80</b>	<b>17</b>	<b>17</b>	<b>850</b>	<b>17</b>	<b>17</b>	<b>34</b>	<b>17</b>	<b>34</b>	<b>17</b>

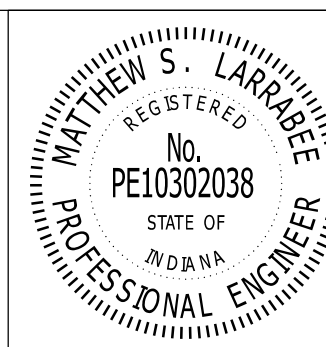
**LUMINAIRE SCHEDULE**

LUMINAIRE NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
CONNECTION TYPE	II	II	II	II	II	II	II	II	II	II	II	II	II	II	II	II	II
CIRCUIT CONNECTION	R	R	B	B	R	R	B	B	R	R	B	B	R	R	B	B	R
POLE SETBACK FROM B/C (FT.)	8'	8'	8'	8'	8'	8'	8'	8'	8'	8'	8'	8'	8'	8'	8'	8'	8'
MAST ARM LENGTH (FT.)	10'	10'	10'	10'	10'	10'	10'	10'	10'	10'	10'	10'	10'	10'	10'	10'	10'
TOP OF FOUNDATION ELEV. W/ RESPECT TO BACK OF CURB	+1.98'	+1.98'	+1.98'	+1.98'	+1.98'	+1.98'	+1.98'	+1.98'	+1.98'	+1.98'	+1.98'	+1.98'	+1.98'	+1.98'	+1.98'	+1.98'	+1.98'

**DESIGN DATA**

Initial Lamp Lumen (LL)	
Average Maintained Illuminance (EL)	0.8
Lamp Lumen Depreciation Factor (LLD)	0.90
Luminaire Dirt Depreciation Factor (LDD)	0.87
Uniformity Ratio	3:1
Mounting Height (MH)	30'
Luminaire Classification	III
Pavement Classification	R3

Note: Lights Fixtures are being replaced at the same location as existing. There are additional lighting fixtures on the existing circuits. Wire shall be replaced between new fixture and existing fixture prior to or after new fixtures

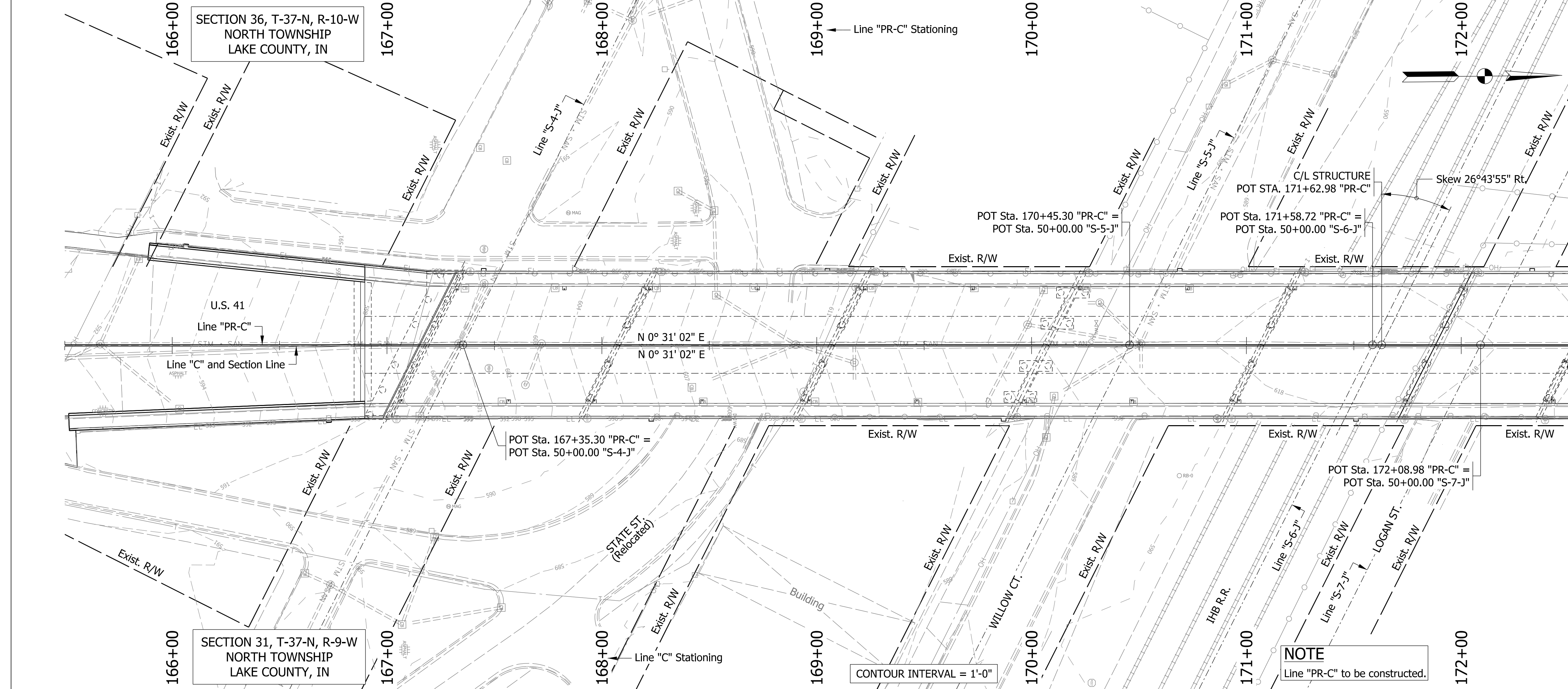


RECOMMENDED FOR APPROVAL	<i>Matthew S. Larkabee</i>	8/16/2017	DATE
DESIGNED:	MSL	DRAWN:	BTS
CHECKED:	SG	CHECKED:	MSL

**INDIANA  
DEPARTMENT OF TRANSPORTATION**

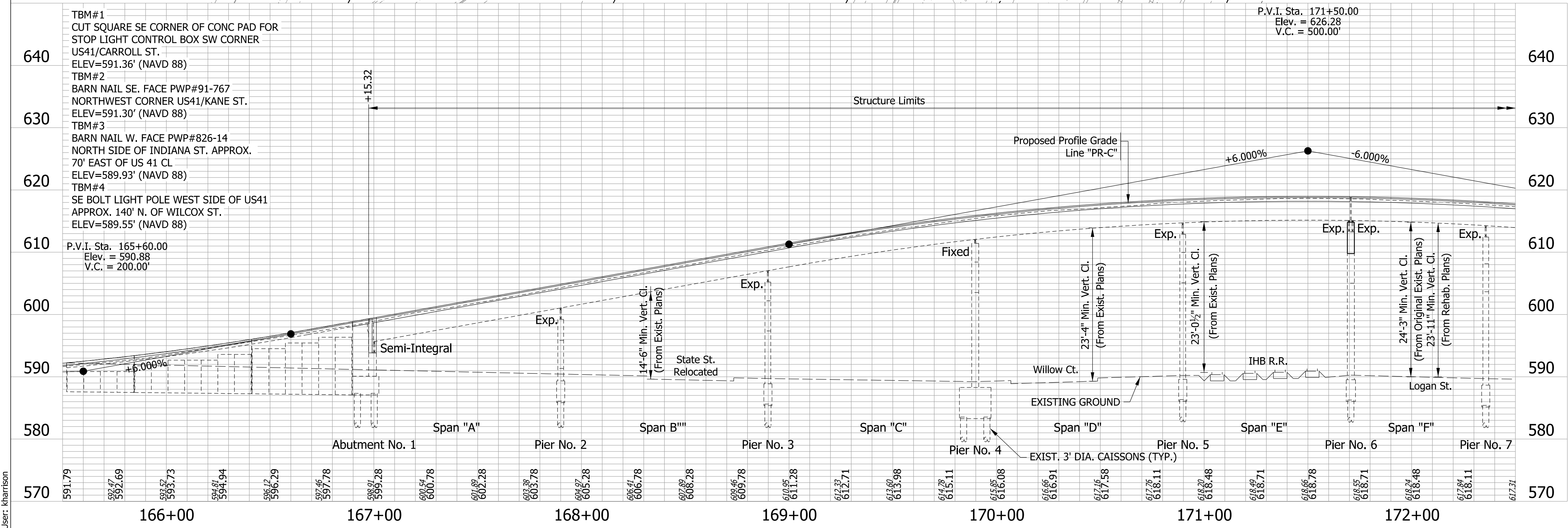
**LIGHTING DETAILS**

HORIZONTAL SCALE	BRIDGE FILE
AS NOTED	41-45-02073B
VERTICAL SCALE	DESIGNATION
AS NOTED	1172245
SURVEY BOOK	SHEETS
ELECTRONIC	35 of 86
CONTRACT	PROJECT
B-36676	1172245



**UTILITIES**  
See Index Sheet For Information.

**EXISTING STRUCTURE**  
Existing Structure is a Continuous Composite Steel Beam Bridge with 10 Spans (90'-0", 3 @ 100'-0", 81'-0", 65'-0", 2 @ 88'-0", 100'-0", 80'-0")  
Skew: 26°43'55" Rt. Clear Roadway: 2 @ 26'-0"  
(Existing Bridge Deck to be Removed)

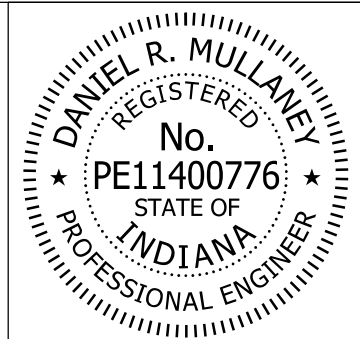


**EARTHWORK SUMMARY**

Excavation, Foundation, Unclassified	129 CYS
Aggregate for End Bent Backfill	72 CYS

**CONTINUOUS COMPOSITE STEEL BEAM BRIDGE**  
10 SPANS: 90'-0", 3 @ 100'-0", 81'-0", 65'-0", 2 @ 88'-0", 100'-0", 80'-0"  
54'-6" CLEAR ROADWAY SKEW: 26°43'55" RT.  
US 41 OVER IHB R.R. AND 4 STREETS  
LAKE COUNTY

Model: Layout-1 8/17/2017 10:28:04 AM User: kharrison

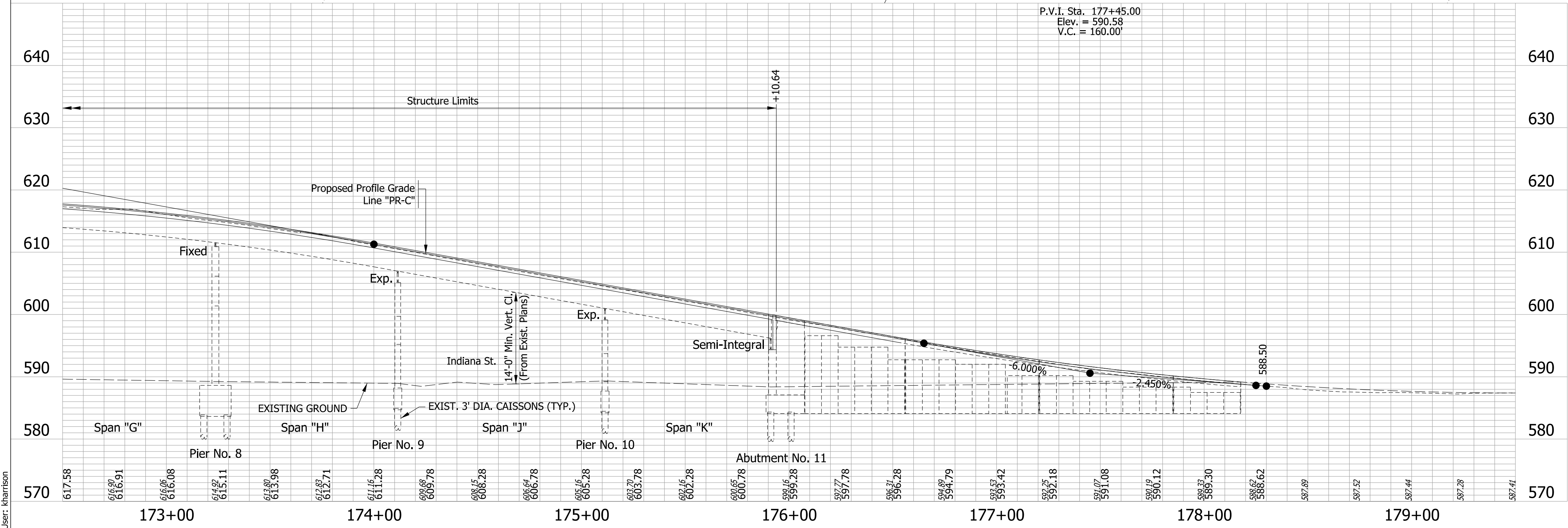
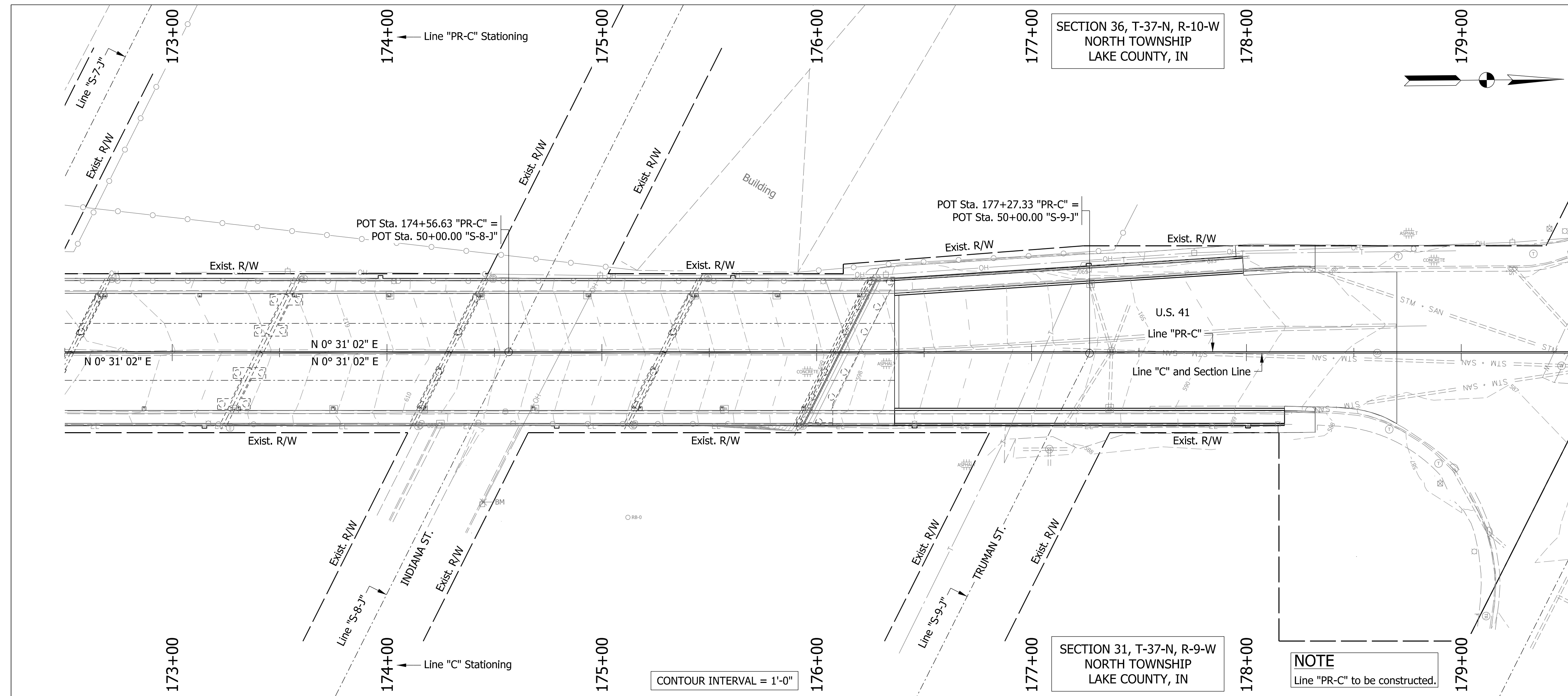


RECOMMENDED FOR APPROVAL: *Dan Mullany* 8/16/2017  
DESIGN ENGINEER DATE

DESIGNED: KCH DRAWN: KCH  
CHECKED: DRM CHECKED: DRM

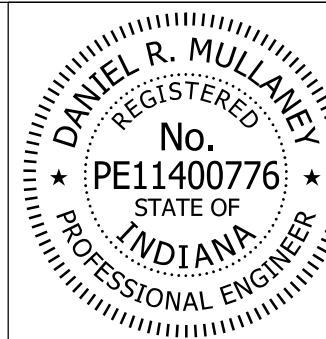
INDIANA DEPARTMENT OF TRANSPORTATION  
**LAYOUT**

HORIZONTAL SCALE 1" = 30'	BRIDGE FILE 41-45-02073B
VERTICAL SCALE 1" = 10'	DESIGNATION 1172245
SURVEY BOOK ELECTRONIC	SHEETS 36 of 86
CONTRACT B-36676	PROJECT 1172245



CONTINUOUS COMPOSITE STEEL BEAM BRIDGE  
 10 SPANS: 90'-0", 3 @ 100'-0", 81'-0",  
 65'-0", 2 @ 88'-0", 100'-0", 80'-0"  
 54'-6" CLEAR ROADWAY SKEW: 26°43'55" RT.  
 US 41 OVER IHB R.R. AND 4 STREETS  
 LAKE COUNTY

Model: Layout\_2  
8/17/2017 10:28:06 AM User: kharrison



RECOMMENDED FOR APPROVAL *Dan Mullamé* 8/16/2017  
 DESIGN ENGINEER DATE

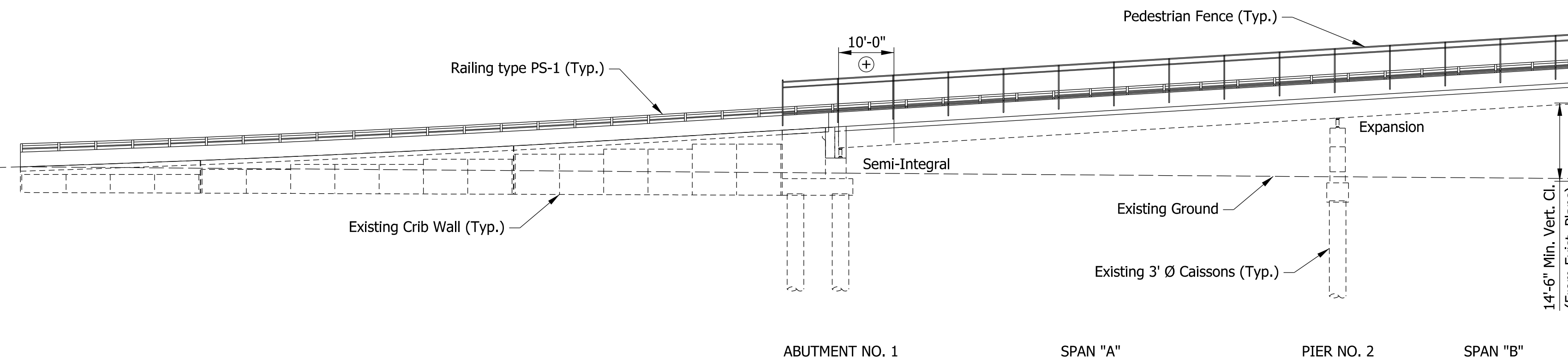
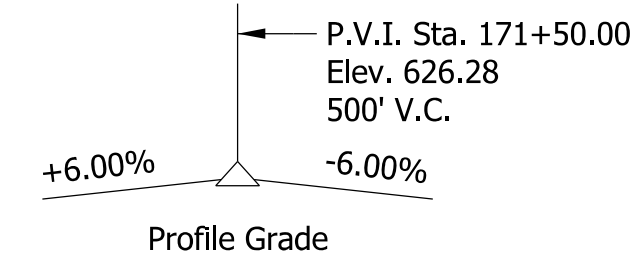
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 CHECKED: DRM CHECKED: DRM

INDIANA  
 DEPARTMENT OF TRANSPORTATION

LAYOUT

HORIZONTAL SCALE 1" = 30'	BRIDGE FILE 41-45-02073B
VERTICAL SCALE 1" = 10'	DESIGNATION 1172245
SURVEY BOOK	SHEETS
ELECTRONIC	37 of 86
CONTRACT B-36676	PROJECT 1172245

STRUCTURE BUILT TO A 500' VERTICAL CURVE

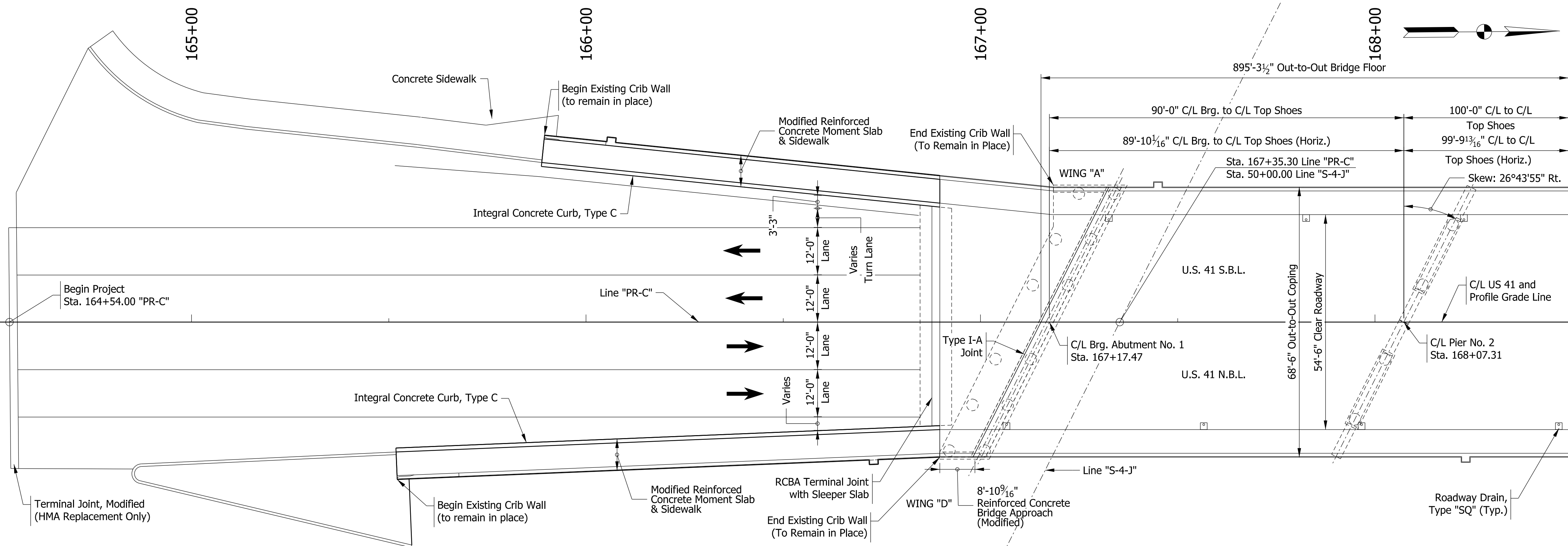


**ELEVATION**

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

⊕ Limits of Clean Steel Bridge, Partial, QP-2 and Limits of Paint Steel Bridge, Partial

NOTE: Cleaning and painting at Abutment No. 1 and Abutment No. 11 shall be done prior to encasing beam ends in new semi-integral concrete diaphragms.



**PLAN**

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

**GENERAL NOTES**

Reinforcing Steel Cover Shall Be 2 1/2" In Top And 1" Minimum In Bottom Of Slab, And 2" In All Other Parts Unless Noted.

All Exposed Faces And Tops Of Wingwalls, Top Of Deck, All Exposed Faces Of Concrete Railing And Transition Railing, Face Of Coping And Underside Of The Deck Slab From The Face Of Coping To The Outside Face Of Exterior Beams, New Concrete At Abutments 1 And 11 And At Pier No. 6, And Bridge Approaches To Be Surface Sealed.

These Plans Were Prepared According To Current Survey Datum (N.A.V.D. 1988).

Existing Bridge Elevations Shall Be Checked By The Contractor To Ensure Proper Fit Of The New Concrete To Existing Concrete.

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.

Existing Paint Believed To Be Lead-Based.

**DESIGN DATA**

Superstructure And Substructure Designed For HS-20 And Toll Road Loading With Impact And Distribution Of Loads In Accordance With AASHTO Standard Specifications For Highway Bridges, 17th Edition, 2002.

Designed For Actual Weight Plus 15 Lbs./Sq.Ft. Noncomposite Load For Stay-In-Place Forms And 35 Lbs./Sq.Ft. Composite Load For Future Wearing Surface.

Floor Slab Designed With Structural Depth Of 7 1/2" And A 1/2" Integral Wearing Surface.

**Unit Stresses**

Class "C" Concrete: F'c = 4,000 Psi

Class "A" Concrete: F'c = 3,500 Psi

Reinforcing Steel: Fy = 60,000 Psi

**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" Outside The Vertical Coping Form. The Top Overhang Brackets Were Assumed To Be Located 6" 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 Lb/Sft For Permanent Metal Stay-In-Place Deck Forms, Removable Deck Forms, And 2-Ft Exterior Walkway.

**Construction Live Load:**

Designed For 20 Lb/Sft Extending 2 Ft Past The Edge Of Coping And 75 Lb/Ft Vertical Force Applied At A Distance Of 6" Outside The Face Of Coping Over 30-Ft Length Of The Deck Centered With The Finishing Machine.

**Finishing-Machine Load:**

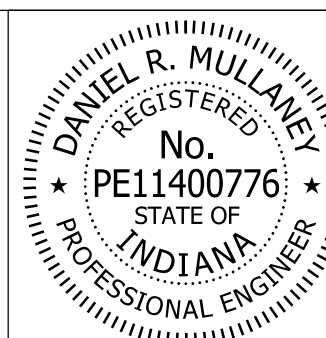
4500 Lb Distributed Over 10 Ft Along Coping.

**Wind Load:**

Structure Designed For 70 MPH Horizontal Wind Loading In Accordance With LRFD 3.8.1.

**CONTINUOUS COMPOSITE STEEL BEAM BRIDGE**  
 10 SPANS: 90'-0", 3 @ 100'-0", 81'-0",  
 65'-0", 2 @ 88'-0", 100'-0", 80'-0"  
 54'-6" CLEAR ROADWAY SKEW: 26°43'55" RT.  
 US 41 OVER IHB R.R. AND 4 STREETS  
 LAKE COUNTY

Model: General Plan 01  
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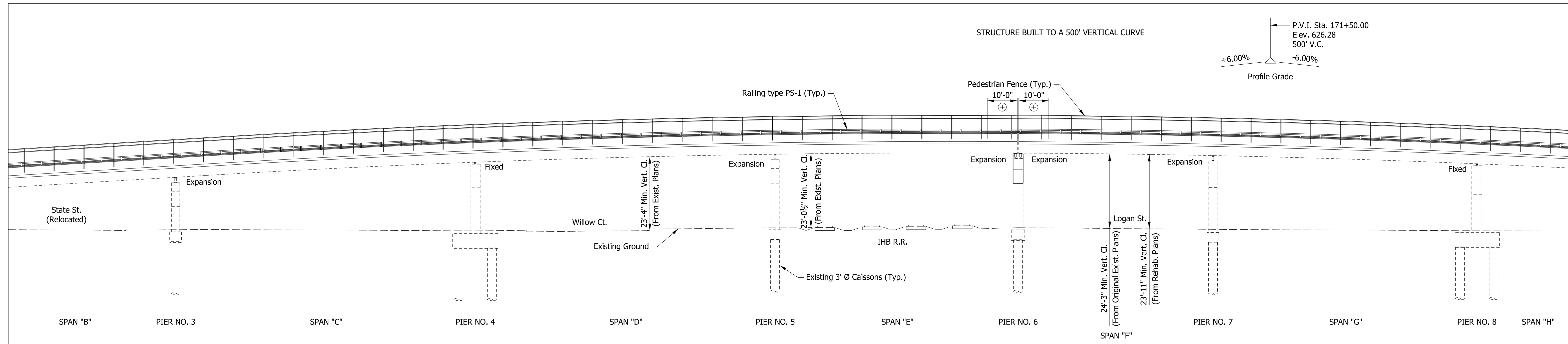


RECOMMENDED FOR APPROVAL: *Dan Mullany* 8/16/2017  
 DESIGN ENGINEER DATE  
 DESIGNED: KCH DRAWN: MDP  
 CHECKED: DRM CHECKED: DRM

INDIANA  
 DEPARTMENT OF TRANSPORTATION

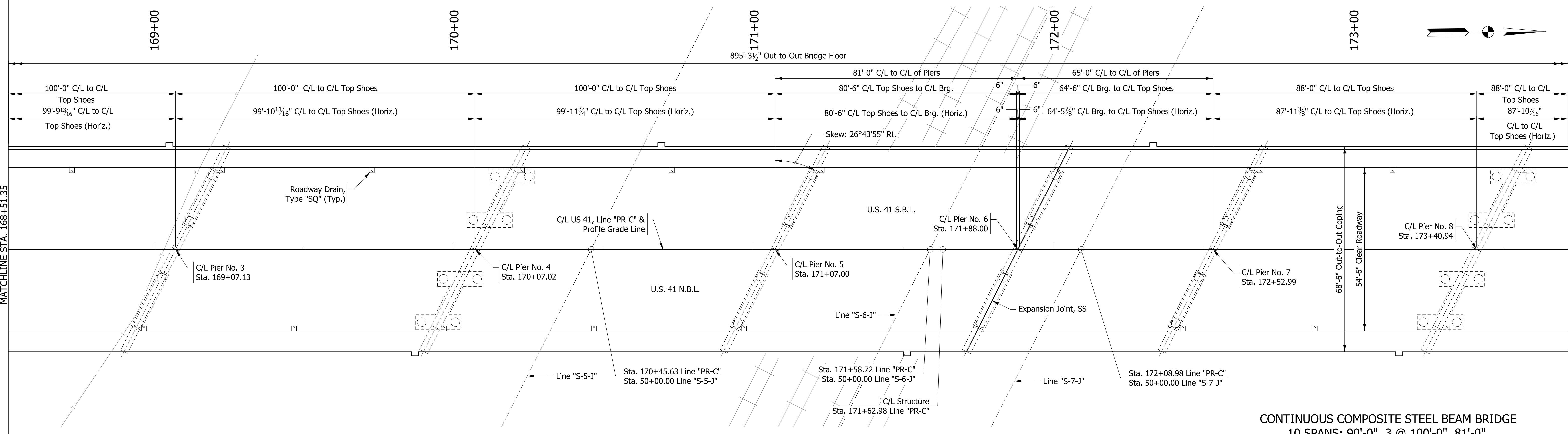
GENERAL PLAN

HORIZONTAL SCALE	BRIDGE FILE
1/16" = 1'-0"	41-45-02073B
VERTICAL SCALE	DESIGNATION
1/16" = 1'-0"	1172245
SURVEY BOOK	SHEETS
ELECTRONIC	38 of 86
CONTRACT	PROJECT
B-36676	1172245



**ELEVATION**

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



**PLAN**

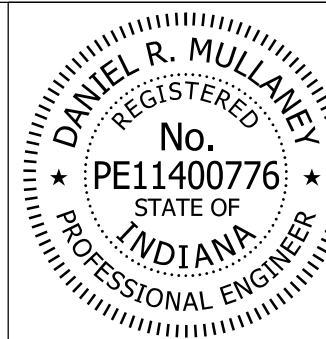
Scale: 1/16" = 1'-0"

**CONTINUOUS COMPOSITE STEEL BEAM BRIDGE**  
 10 SPANS: 90'-0", 3 @ 100'-0", 81'-0",  
 65'-0", 2 @ 88'-0", 100'-0", 80'-0"  
 54'-6" CLEAR ROADWAY SKEW: 26°43'55" RT.  
 US 41 OVER IHB R.R. AND 4 STREETS  
 LAKE COUNTY

MATCHLINE STA. 168+51.35

MATCHLINE STA. 173+71.35

Model: General Plan 02  
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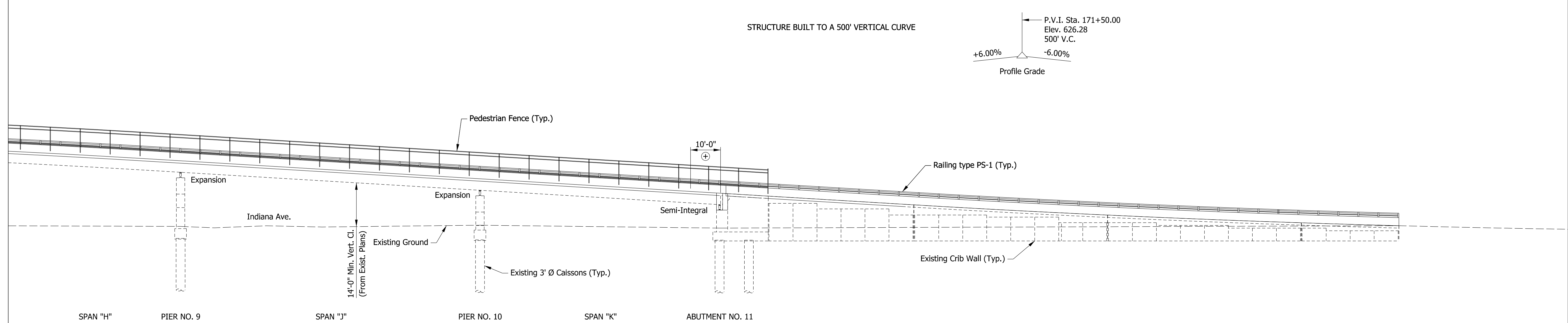
RECOMMENDED FOR APPROVAL *Dan Mullany* 8/16/2017  
 DESIGN ENGINEER DATE

DESIGNED: KCH DRAWN: MDP  
 CHECKED: DRM CHECKED: DRM

INDIANA  
 DEPARTMENT OF TRANSPORTATION

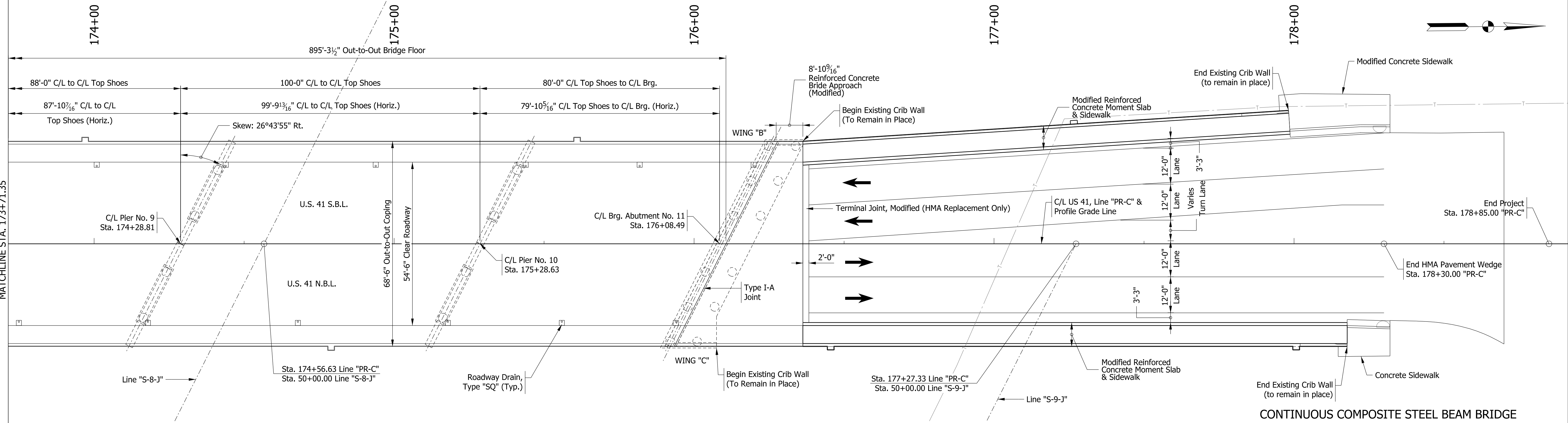
**GENERAL PLAN**

HORIZONTAL SCALE	BRIDGE FILE
1/16" = 1'-0"	41-45-02073B
VERTICAL SCALE	DESIGNATION
1/16" = 1'-0"	1172245
SURVEY BOOK	SHEETS
ELECTRONIC	39 of 86
CONTRACT	PROJECT
B-36676	1172245



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

⊕ Limits of Clean Steel Bridge, Partial, QP-2 and Limits of Paint Steel Bridge, Partial  
NOTE: Cleaning and painting at Abutment No. 1 and Abutment No. 11 shall be done prior to encasing beam ends in new semi-integral concrete diaphragms.

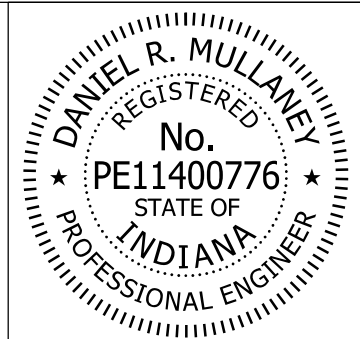


**PLAN**  
Scale: 1/16" = 1'-0"

**CONTINUOUS COMPOSITE STEEL BEAM BRIDGE**  
10 SPANS: 90'-0", 3 @ 100'-0", 81'-0",  
65'-0", 2 @ 88'-0", 100'-0", 80'-0"  
54'-6" CLEAR ROADWAY SKEW: 26°43'55" RT.  
US 41 OVER IHB R.R. AND 4 STREETS  
LAKE COUNTY

MATCHLINE STA. 173+71.35

Model: General Plan 03  
8/17/2017 10:28:09 AM User: kharitson

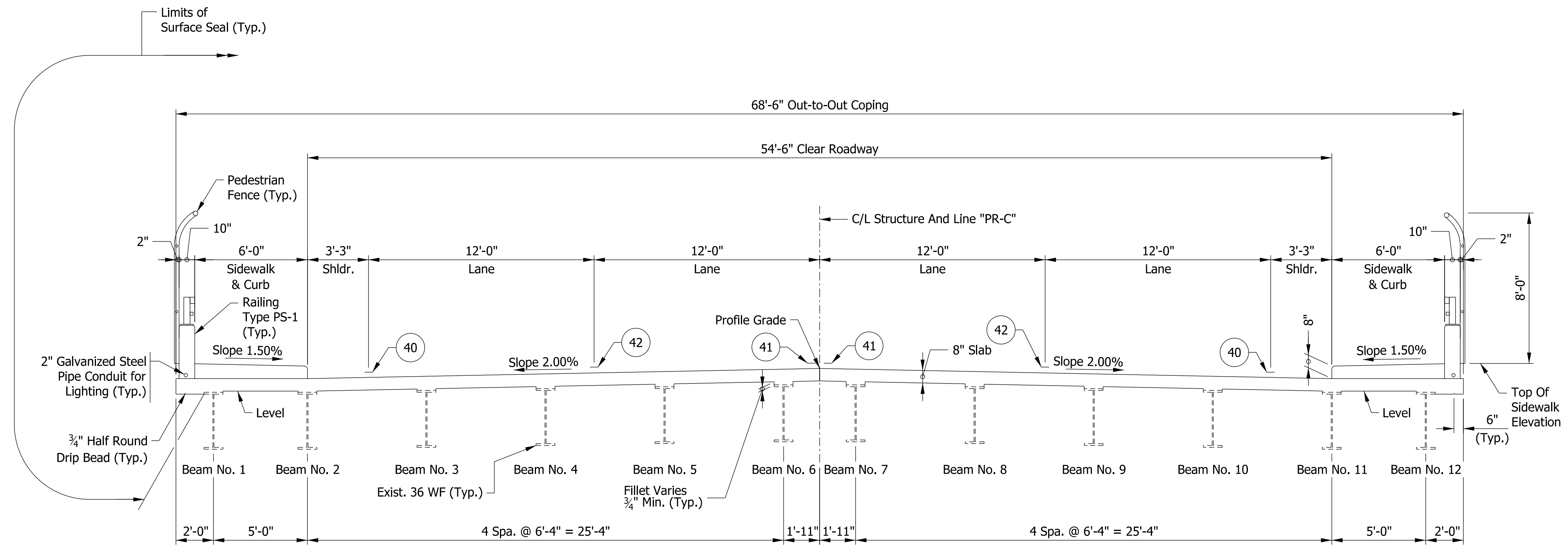


RECOMMENDED FOR APPROVAL	<i>Dan Mullane</i>	8/16/2017
	DESIGN ENGINEER	DATE
DESIGNED:	KCH	DRAWN: MDP
CHECKED:	DRM	CHECKED: DRM

INDIANA  
DEPARTMENT OF TRANSPORTATION  
  
**GENERAL PLAN**

HORIZONTAL SCALE	BRIDGE FILE
1/16" = 1'-0"	41-45-02073B
VERTICAL SCALE	DESIGNATION
1/16" = 1'-0"	1172245
SURVEY BOOK	SHEETS
ELECTRONIC	40 of 86
CONTRACT	PROJECT
B-36676	1172245





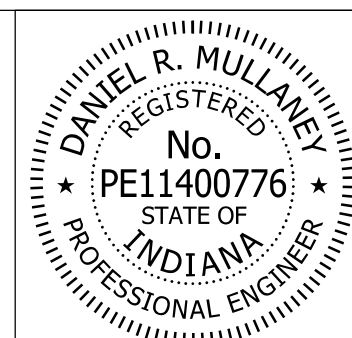
TYPICAL SECTION - PROPOSED

LEGEND

- 40 Line, Multi-Component, Solid, White, 4 in.
- 41 Line, Multi-Component, Solid, Yellow, 4 in.
- 42 Line, Multi-Component, Broken, White, 4 in.

CONTINUOUS COMPOSITE STEEL BEAM BRIDGE  
 10 SPANS: 90'-0", 3 @ 100'-0", 81'-0",  
 65'-0", 2 @ 88'-0", 100'-0", 80'-0"  
 54'-6" CLEAR ROADWAY SKEW: 26°43'55" RT.  
 US 41 OVER IHB R.R. AND 4 STREETS  
 LAKE COUNTY

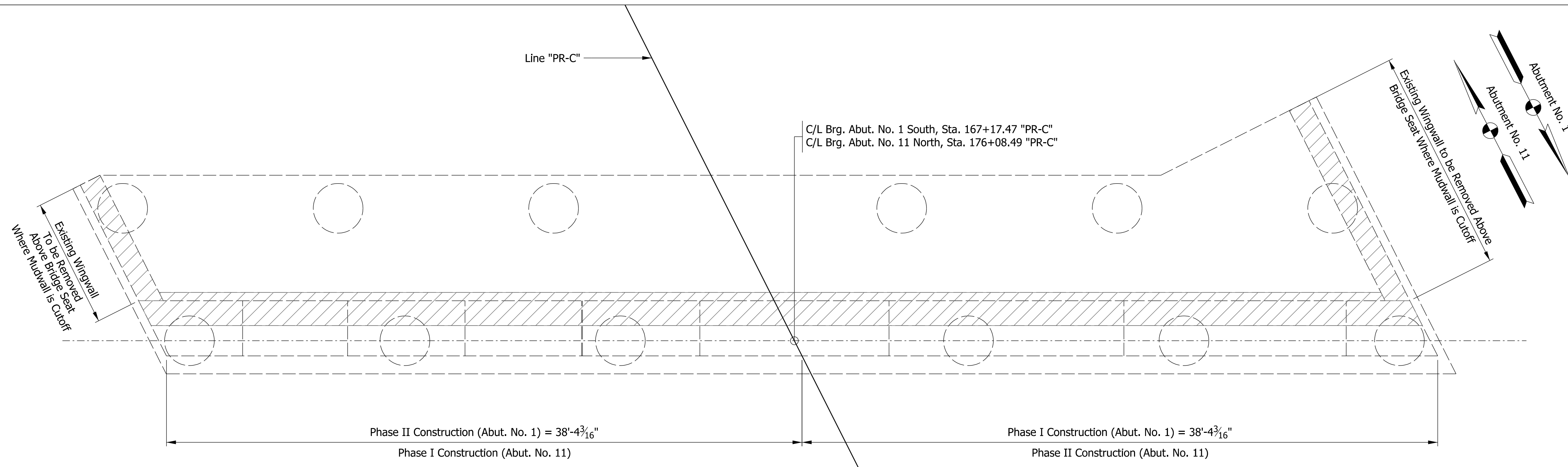
Model: Typical Sections  
 8/17/2017 10:28:10 AM User: kharrison



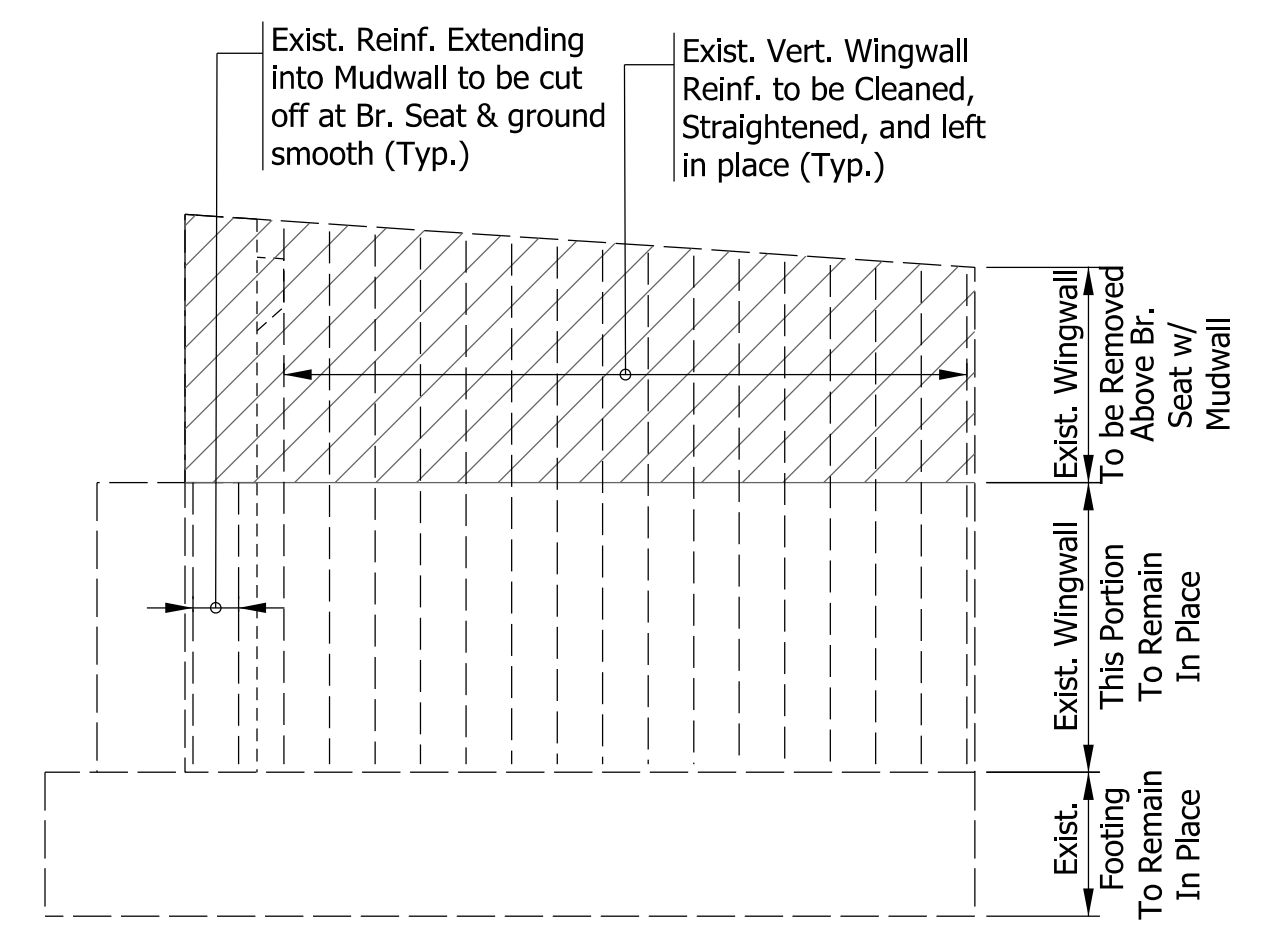
RECOMMENDED FOR APPROVAL	<i>Don Mullane</i>	8/16/2017
	DESIGN ENGINEER	DATE
DESIGNED:	KCH	DRAWN: MDP
CHECKED:	DRM	CHECKED: DRM

INDIANA DEPARTMENT OF TRANSPORTATION	
GENERAL PLAN	

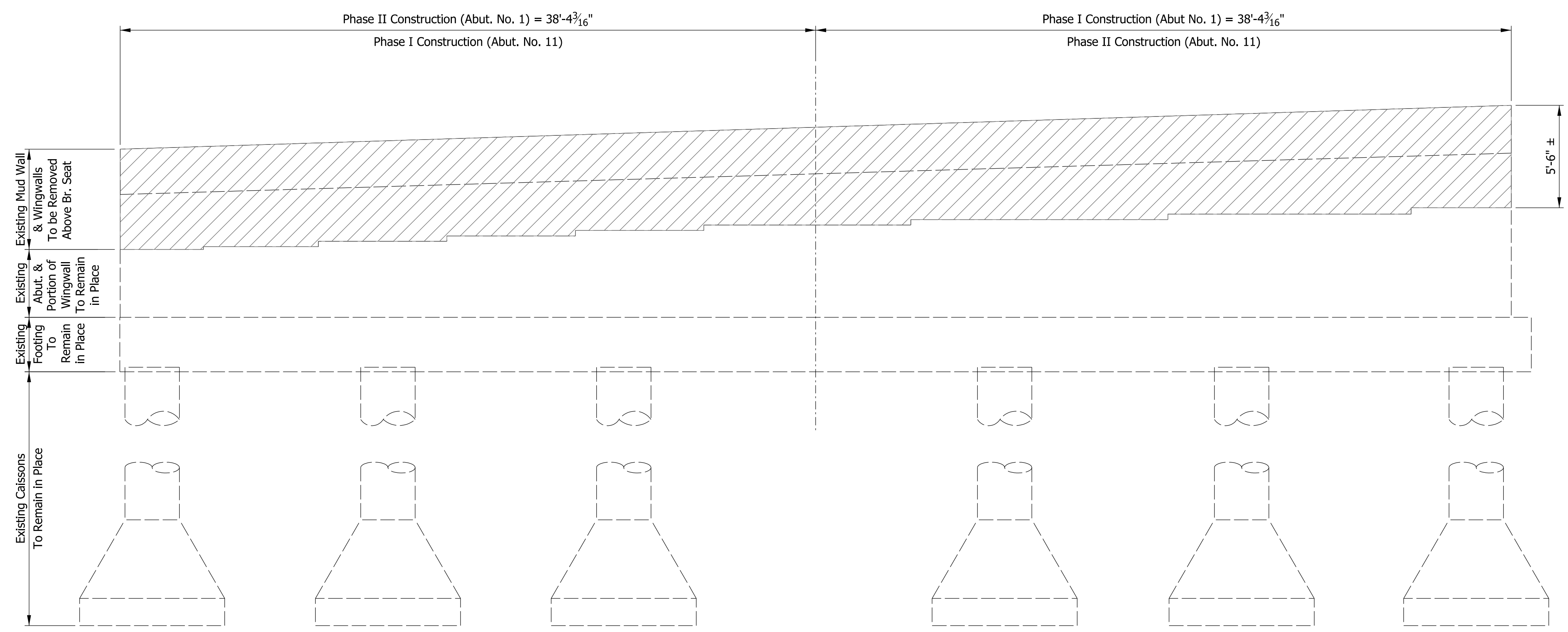
HORIZONTAL SCALE	BRIDGE FILE
1/4" = 1'-0"	41-45-02073B
VERTICAL SCALE	DESIGNATION
1/4" = 1'-0"	1172245
SURVEY BOOK	SHEETS
ELECTRONIC	41 of 86
CONTRACT	PROJECT
B-36676	1172245



PLAN - REMOVAL

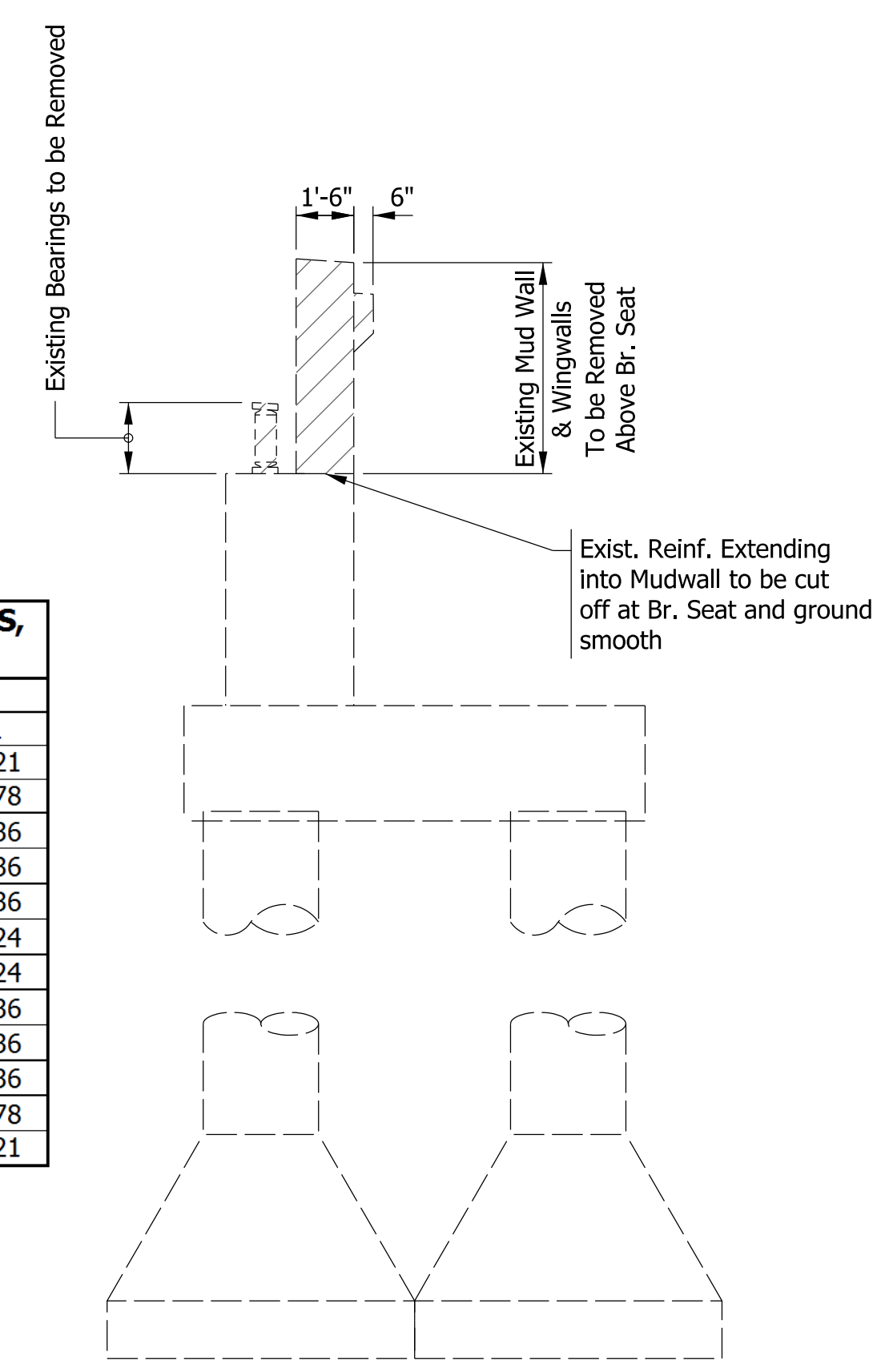


ELEVATION WINGWALL - REMOVAL



ELEVATION - REMOVAL

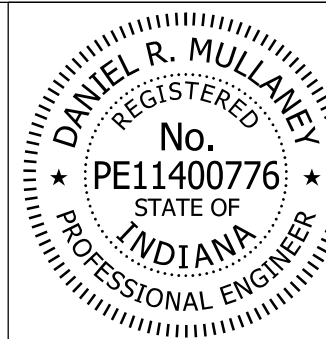
	ABUT. 1		ABUT. 11	
	DL	LL	DL	LL
BEAM 1	55.54	42.19	54.10	41.21
BEAM 2	52.32	52.94	51.37	51.78
BEAM 3	45.70	58.62	37.26	57.36
BEAM 4	45.70	58.62	37.26	57.36
BEAM 5	45.70	58.62	37.26	57.36
BEAM 6	40.64	48.30	33.06	47.24
BEAM 7	40.64	48.30	33.06	47.24
BEAM 8	45.70	58.62	37.26	57.36
BEAM 9	45.70	58.62	37.26	57.36
BEAM 10	45.70	58.62	37.26	57.36
BEAM 11	52.32	52.94	51.37	51.78
BEAM 12	55.54	42.19	54.10	41.21



SECTION - REMOVAL

Indicates Portion of Structure to be Removed

Model: Bent Removal 8/17/2017 10:28:10 AM User: kharlison



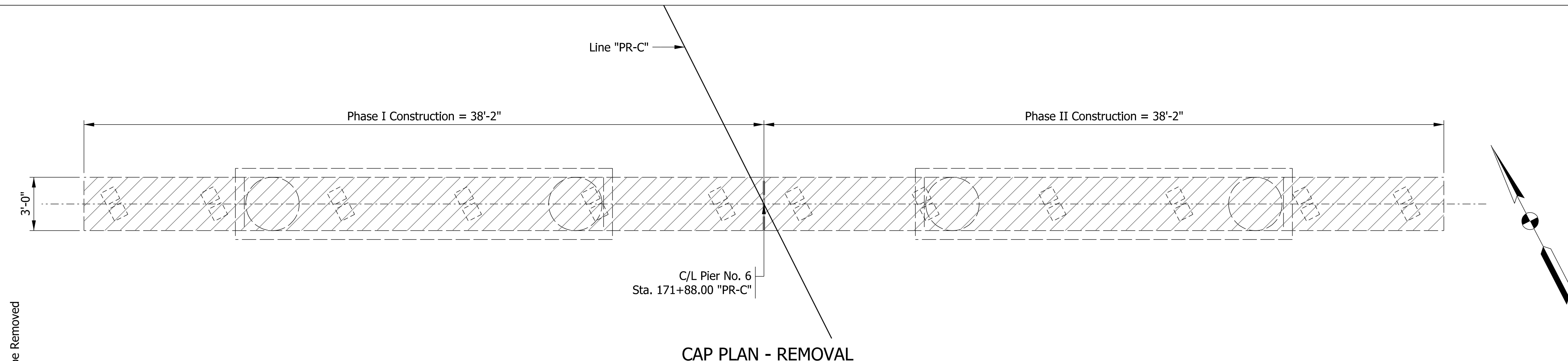
RECOMMENDED FOR APPROVAL *Dan Mullane* 8/16/2017  
 DESIGN ENGINEER DATE

DESIGNED: \_\_\_\_\_ DRM DRAWN: \_\_\_\_\_ BTS  
 CHECKED: \_\_\_\_\_ MJF CHECKED: \_\_\_\_\_ DRM

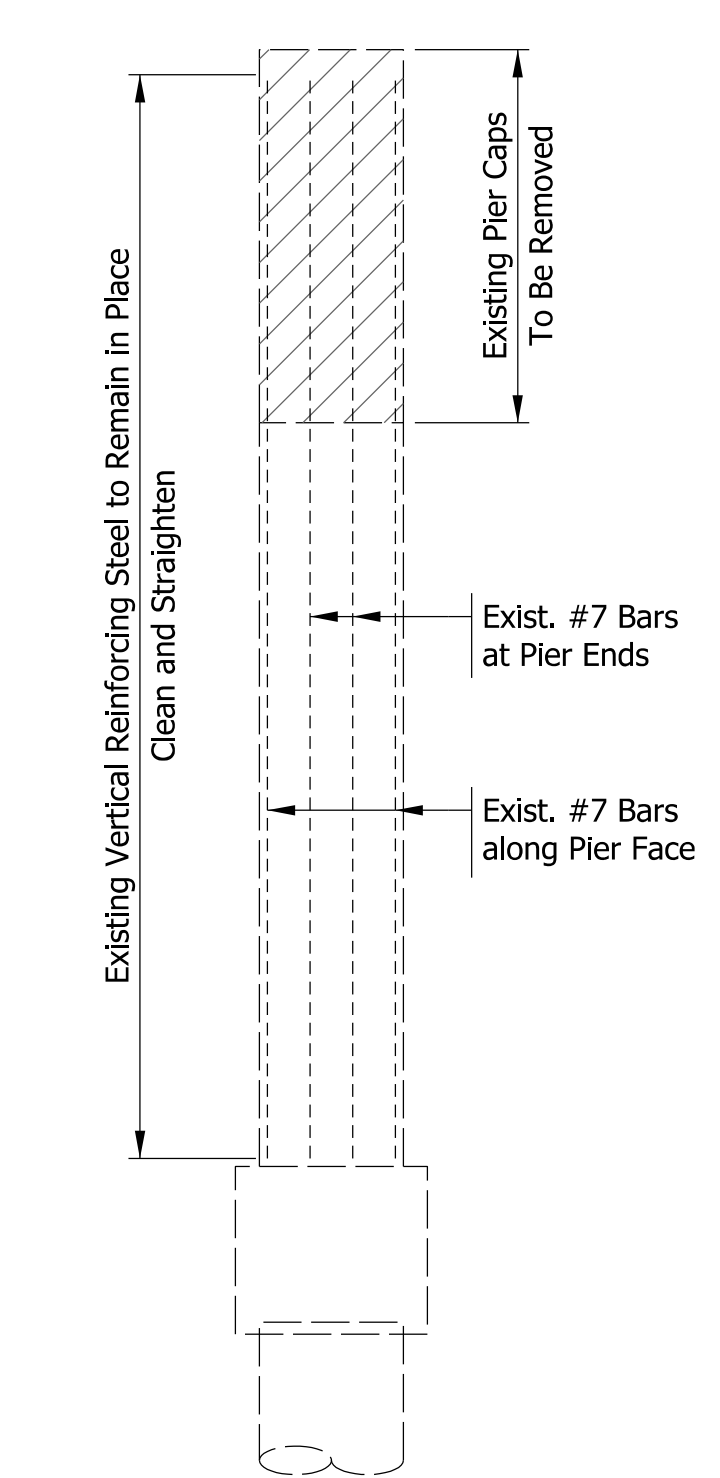
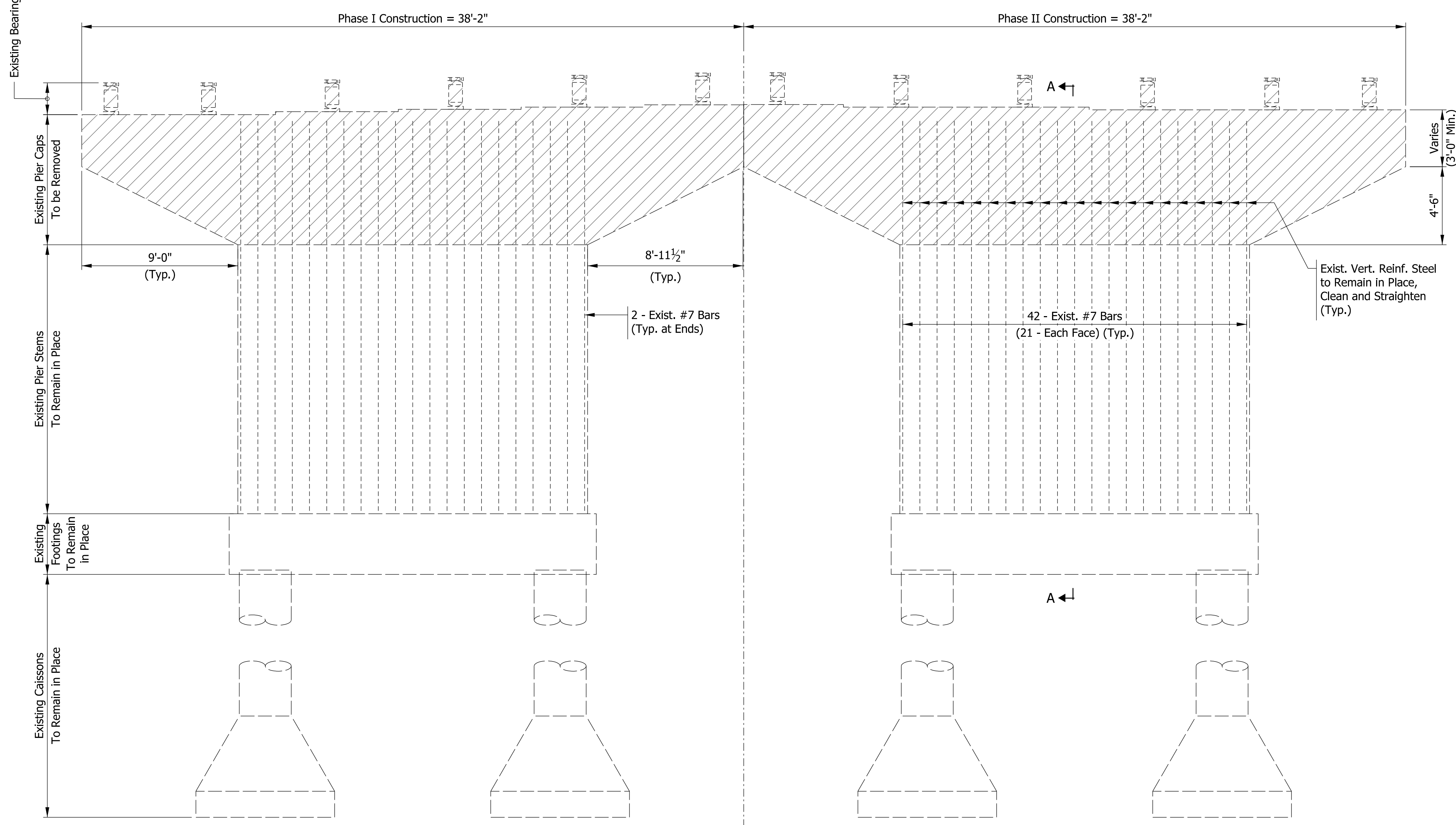
INDIANA  
 DEPARTMENT OF TRANSPORTATION

ABUTMENT NO. 1 & 11 REMOVAL DETAILS

HORIZONTAL SCALE	BRIDGE FILE
1/4" = 1'-0"	41-45-02073B
VERTICAL SCALE	DESIGNATION
1/4" = 1'-0"	1172245
SURVEY BOOK	SHEETS
ELECTRONIC	42 of 86
CONTRACT	PROJECT
B-36676	1172245



TEMPORARY SUPPORT REACTIONS, KIPS (SERVICE LOADS)				
	PIER NO. 6 - SOUTH BRG. LINE		PIER NO. 6 - NORTH BRG. LINE	
	DL	LL	DL	LL
BEAM 1	49.64	27.03	39.83	21.69
BEAM 2	46.85	33.74	37.60	27.07
BEAM 3	38.42	37.30	30.83	29.94
BEAM 4	38.42	37.30	30.83	29.94
BEAM 5	38.42	37.30	30.83	29.94
BEAM 6	34.10	30.80	27.37	24.72
BEAM 7	34.10	30.80	27.37	24.72
BEAM 8	38.42	37.30	30.83	29.94
BEAM 9	38.42	37.30	30.83	29.94
BEAM 10	38.42	37.30	30.83	29.94
BEAM 11	46.85	33.74	37.60	27.07
BEAM 12	49.64	27.03	39.83	21.69

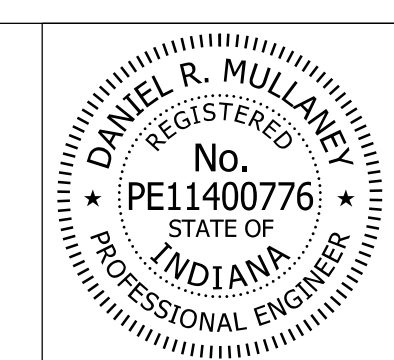


SECTION A-A - REMOVAL

ELEVATION - REMOVAL

Indicates Portion of Structure to be Removed

Model: Pier 6 Removal 8/17/2017 10:28:11 AM User: kharlison



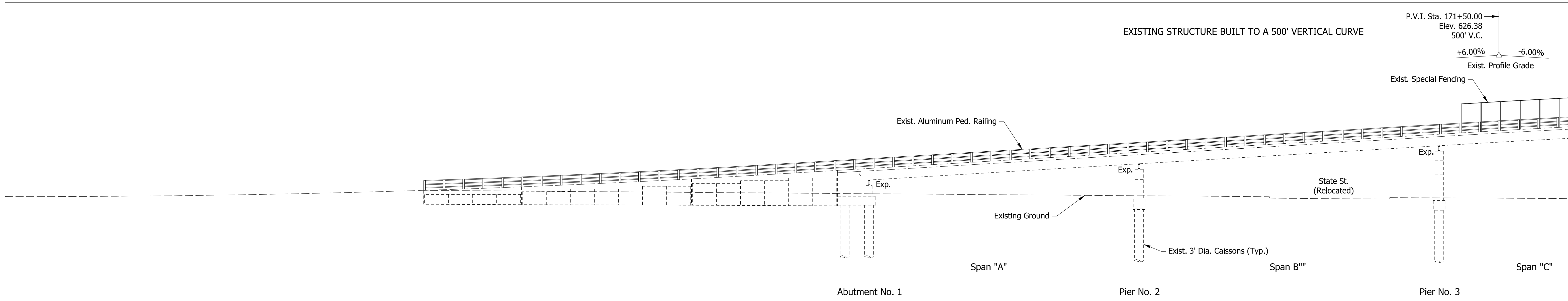
RECOMMENDED FOR APPROVAL *Dan Mullamey* 8/16/2017  
 DESIGN ENGINEER DATE

DESIGNED: MJF/MDP DRAWN: BTS  
 CHECKED: DRM CHECKED: DRM

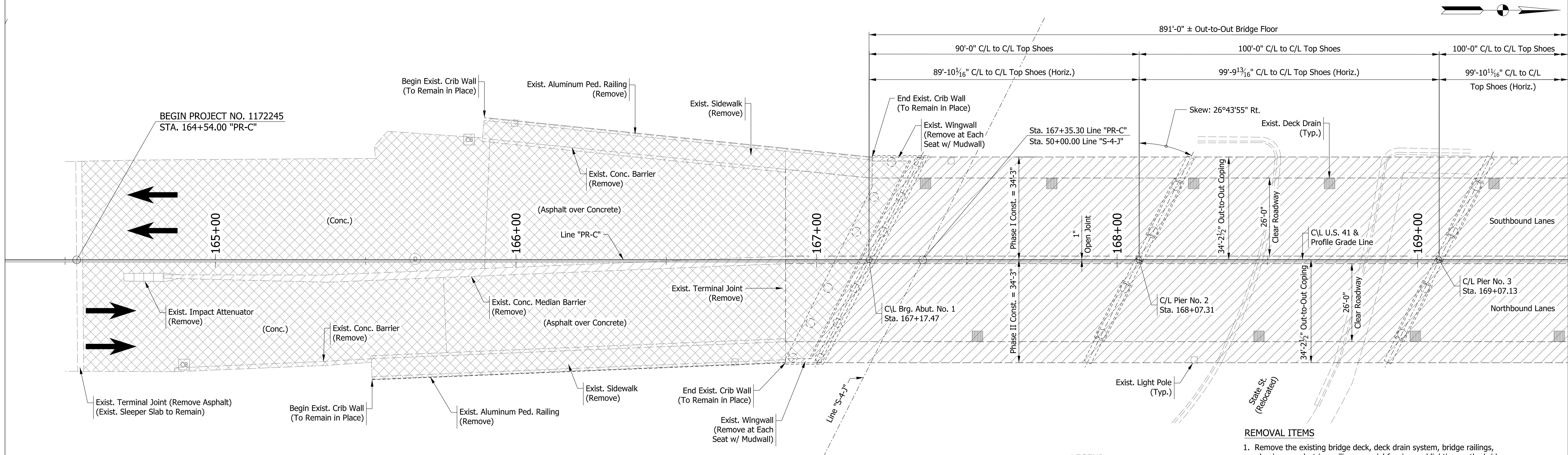
INDIANA  
 DEPARTMENT OF TRANSPORTATION

PIER NO. 6 REMOVAL DETAILS

HORIZONTAL SCALE	BRIDGE FILE
1/4" = 1'-0"	41-45-02073B
VERTICAL SCALE	DESIGNATION
1/4" = 1'-0"	1172245
SURVEY BOOK	SHEETS
ELECTRONIC	43 of 86
CONTRACT	PROJECT
B-36676	1172245



**PART ELEVATION - REMOVAL**





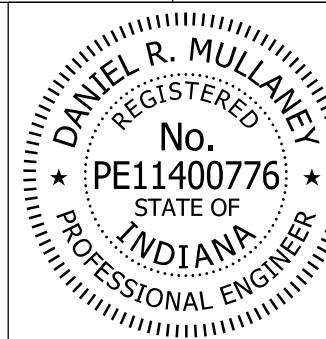
**PART PLAN - REMOVAL**

**REMOVAL ITEMS**

1. Remove the existing bridge deck, deck drain system, bridge railings, aluminum pedestrian railings, special fencing and lighting on the bridge. Lock existing rocker bearings prior to removing existing bridge deck. Reset bearings prior to pouring proposed bridge deck.
2. Remove existing R.C. Approach slabs, terminal joints, concrete median barrier, and impact attenuators.
3. Remove concrete barrier walls along the outside shoulders, sidewalk and aluminum pedestrian railing on both sides on the approaching roadways.
4. Use asphalt removal milling on the south approach roadway to remove existing overlay down to the concrete pavement.
5. Mill existing asphalt overlay on the north approach roadway for transition.
6. Remove portions of the existing abutments and wingwalls down to the beam seat elevation. Remove pier cap at pier 6. Provide temporary support for steel beams. For Temporary Support reactions, see Sheets 42 and 43.

**LEGEND**

-  Indicates Portions of Structure to be Removed
-  Indicates Pavement Removal



RECOMMENDED FOR APPROVAL: *Dan Mullany* 8/16/2017  
 DESIGN ENGINEER DATE

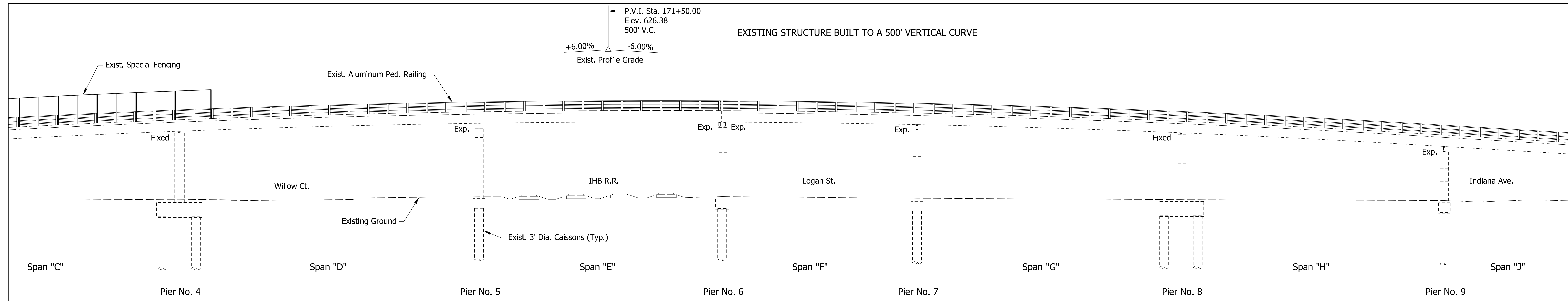
DESIGNED: KCH DRAWN: BTS  
 CHECKED: DRM CHECKED: DRM

INDIANA  
 DEPARTMENT OF TRANSPORTATION

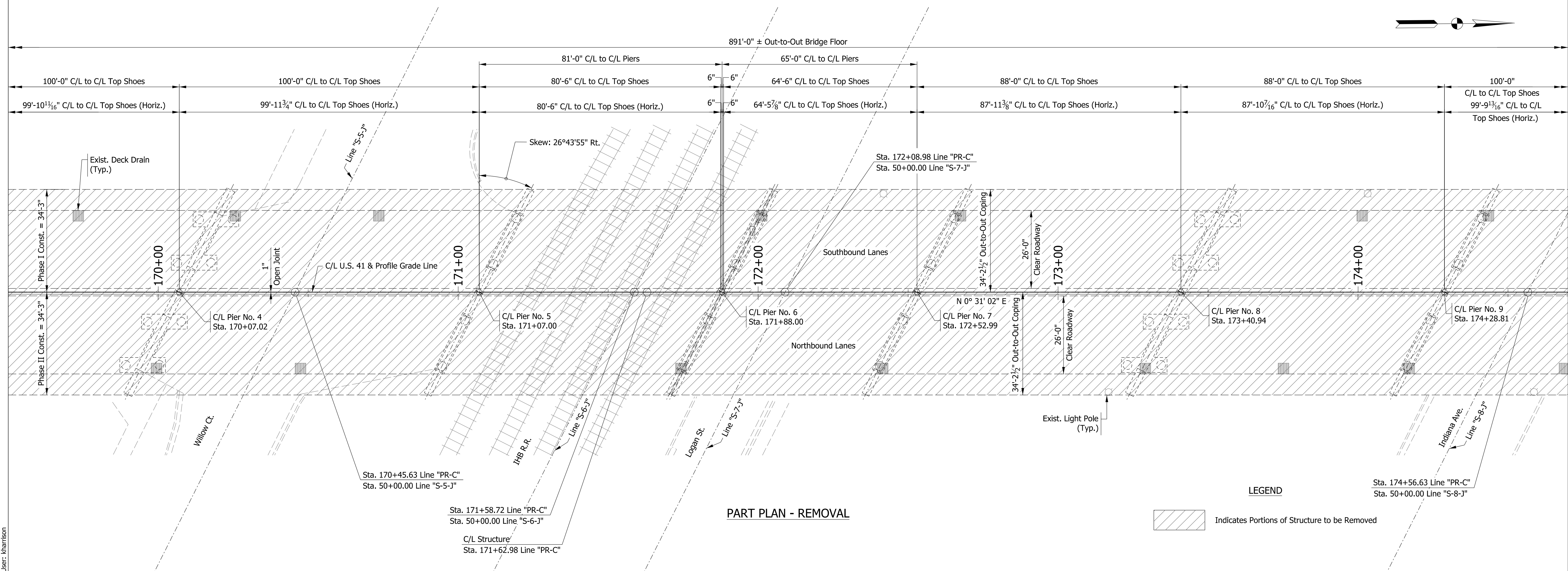
**REMOVAL DETAILS  
 SPANS A - C**

HORIZONTAL SCALE	BRIDGE FILE
1/16" = 1'-0"	41-45-02073B
VERTICAL SCALE	DESIGNATION
1/16" = 1'-0"	1172245
SURVEY BOOK	SHEETS
ELECTRONIC	44 of 86
CONTRACT	PROJECT
B-36676	1172245

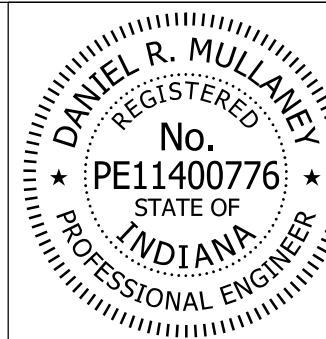
Model: Removal-1  
 8/17/2017 10:28:12 AM User: kharrison



PART ELEVATION - REMOVAL



PART PLAN - REMOVAL

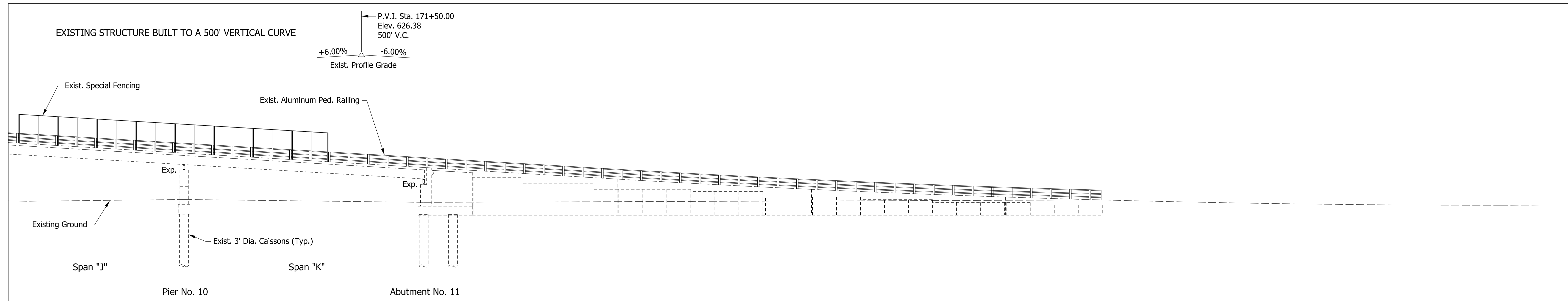


RECOMMENDED FOR APPROVAL: *Don Mullamey* DESIGN ENGINEER, 8/16/2017 DATE  
 DESIGNED: KCH DRAWN: BTS  
 CHECKED: DRM CHECKED: DRM

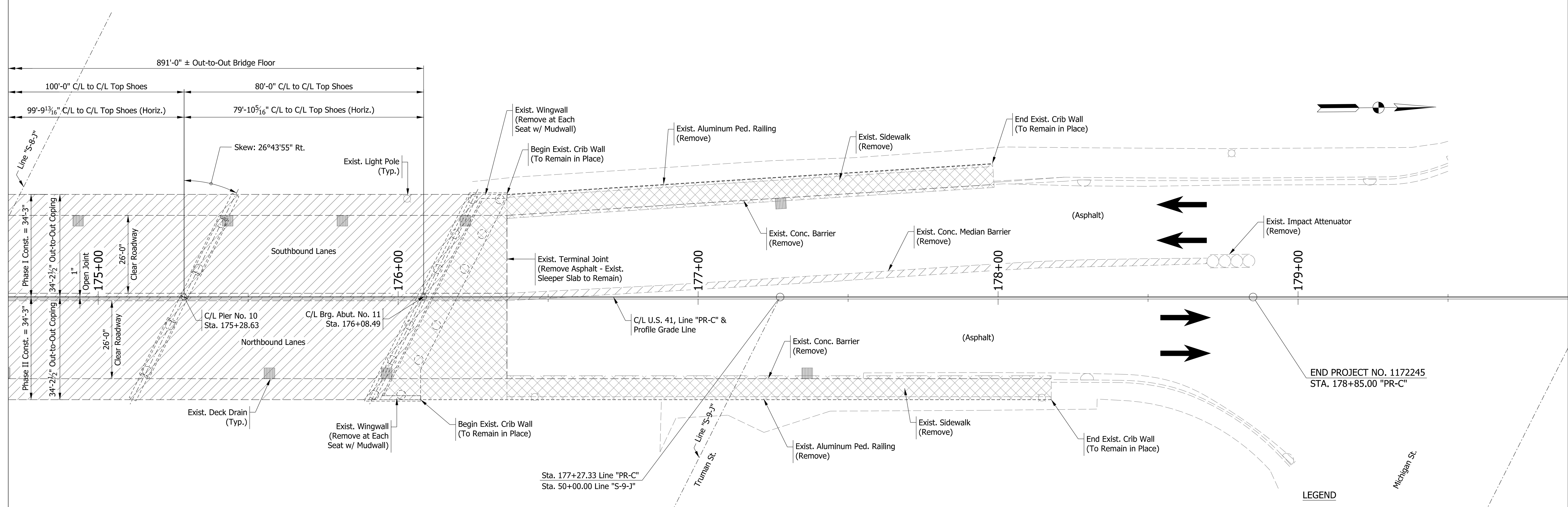
INDIANA DEPARTMENT OF TRANSPORTATION  
 REMOVAL DETAILS SPANS C - J

HORIZONTAL SCALE	BRIDGE FILE
1/16" = 1'-0"	41-45-02073B
VERTICAL SCALE	DESIGNATION
1/16" = 1'-0"	1172245
SURVEY BOOK	SHEETS
ELECTRONIC	45 of 86
CONTRACT	PROJECT
B-36676	1172245

Model: Removal2  
 8/17/2017 10:28:13 AM User: kharrison

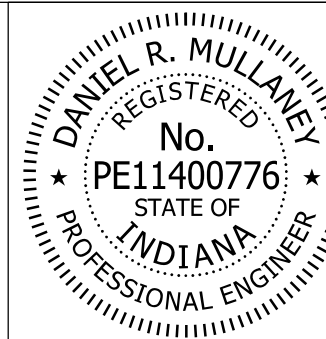


PART ELEVATION - REMOVAL



PART PLAN - REMOVAL

Model: Removal3 8/17/2017 10:28:13 AM User: kharrison



RECOMMENDED FOR APPROVAL	<i>Dan Mullane</i>	8/16/2017
	DESIGN ENGINEER	DATE
DESIGNED:	KCH	DRAWN: BTS
CHECKED:	DRM	CHECKED: DRM

**INDIANA**  
DEPARTMENT OF TRANSPORTATION

**REMOVAL DETAILS**  
SPANS J - K

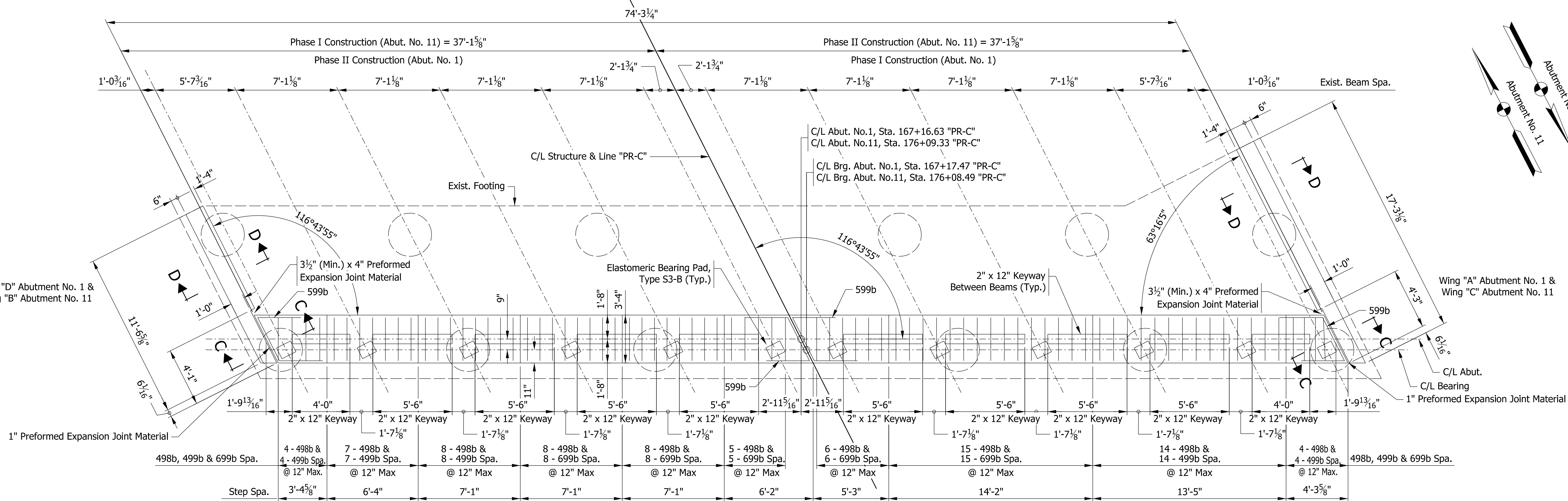
HORIZONTAL SCALE	BRIDGE FILE
1/16" = 1'-0"	41-45-02073B
VERTICAL SCALE	DESIGNATION
1/16" = 1'-0"	1172245
SURVEY BOOK	SHEETS
ELECTRONIC	46 of 86
CONTRACT	PROJECT
B-36676	1172245

EXISTING ABUT. ELEVATIONS		
	ABUT. 1	ABUT. 11
Elev. "1"	595.10	593.49
Elev. "2"	594.86	593.17
Elev. "3"	594.67	592.98
Elev. "4"	594.46	592.77
Elev. "5"	594.17	592.48
Elev. "6"	593.88	592.19
Elev. "7"	593.59	591.90
Elev. "8"	593.30	591.61
Elev. "9"	593.05	591.46

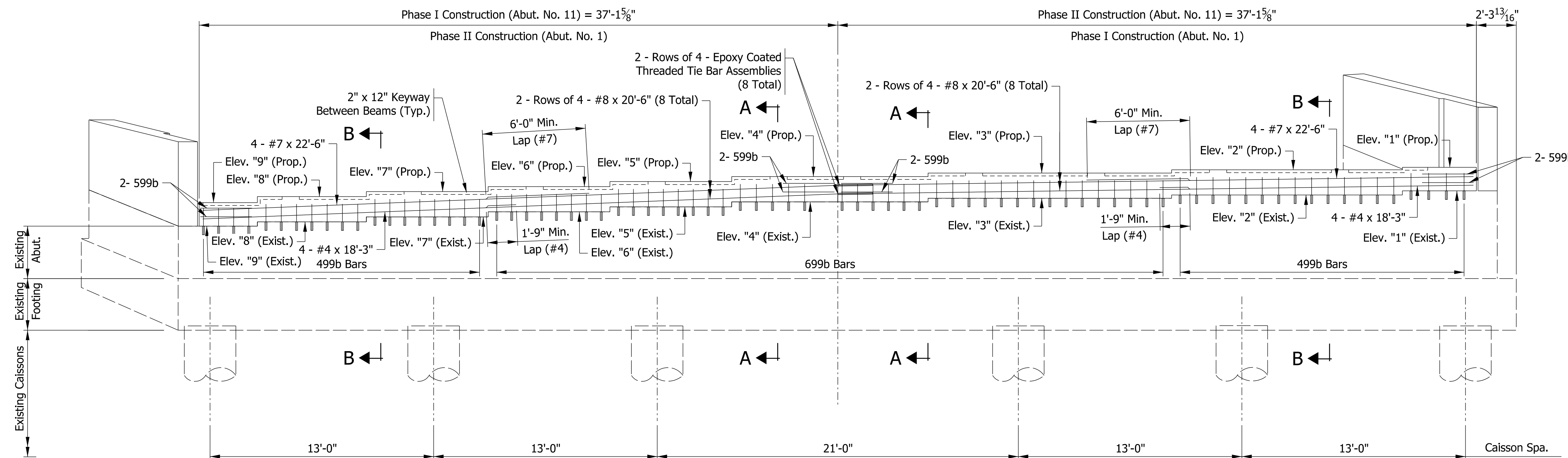
PROPOSED ABUT. ELEVATIONS		
	ABUT. 1	ABUT. 11
Elev. "1"	596.47	594.86
Elev. "2"	596.32	594.64
Elev. "3"	596.14	594.45
Elev. "4"	595.93	594.24
Elev. "5"	595.64	593.95
Elev. "6"	595.35	593.66
Elev. "7"	595.06	593.37
Elev. "8"	594.77	593.08
Elev. "9"	594.42	592.83

Wing "D" Abutment No. 1 & Wing "B" Abutment No. 11

Wing "A" Abutment No. 1 & Wing "C" Abutment No. 11



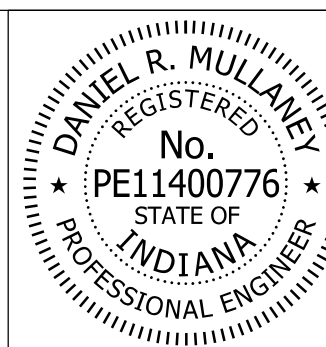
PLAN - ABUTMENT NO. 1 & 11



ELEVATION - ABUTMENT NO. 1 & 11

NOTES

- 1) For Section "A-A" and Section "B-B", See Sheet No. 48.
- 2) For reinforcing bar notes, See Std. Dwg. E-703-BRST-01.
- 3) All reinforcing in Abutments and Wingwalls is to be Epoxy Coated.
- 4) All reinforcing below bridge seat and in the Wingwalls is billed with the Abutments.
- 5) For Section "C-C" and "D-D", see Sheet No. 49.



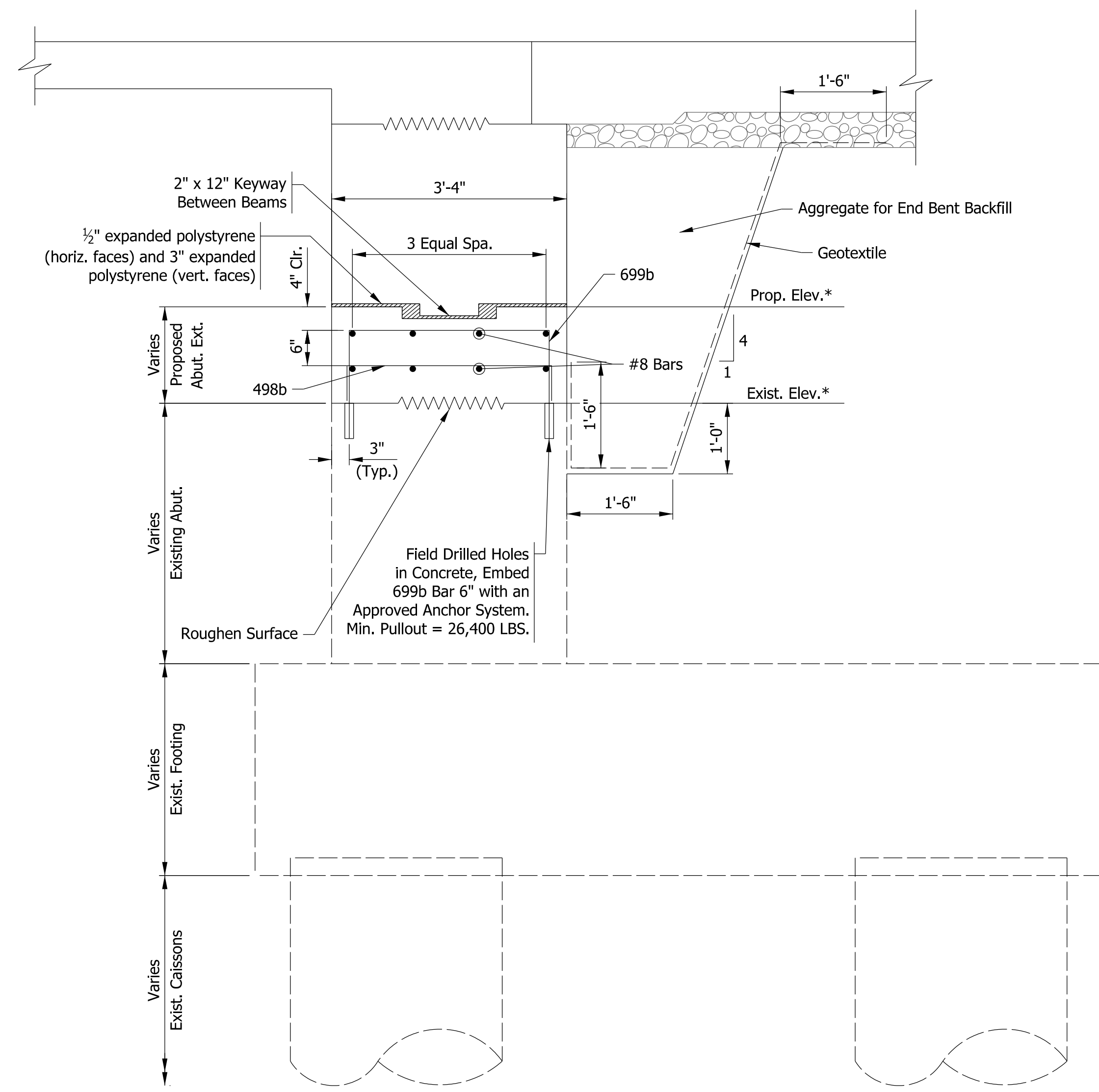
RECOMMENDED FOR APPROVAL *Dan Mullane* 8/16/2017  
 DESIGN ENGINEER DATE

DESIGNED: DRM DRAWN: BTS  
 CHECKED: MJF CHECKED: DRM

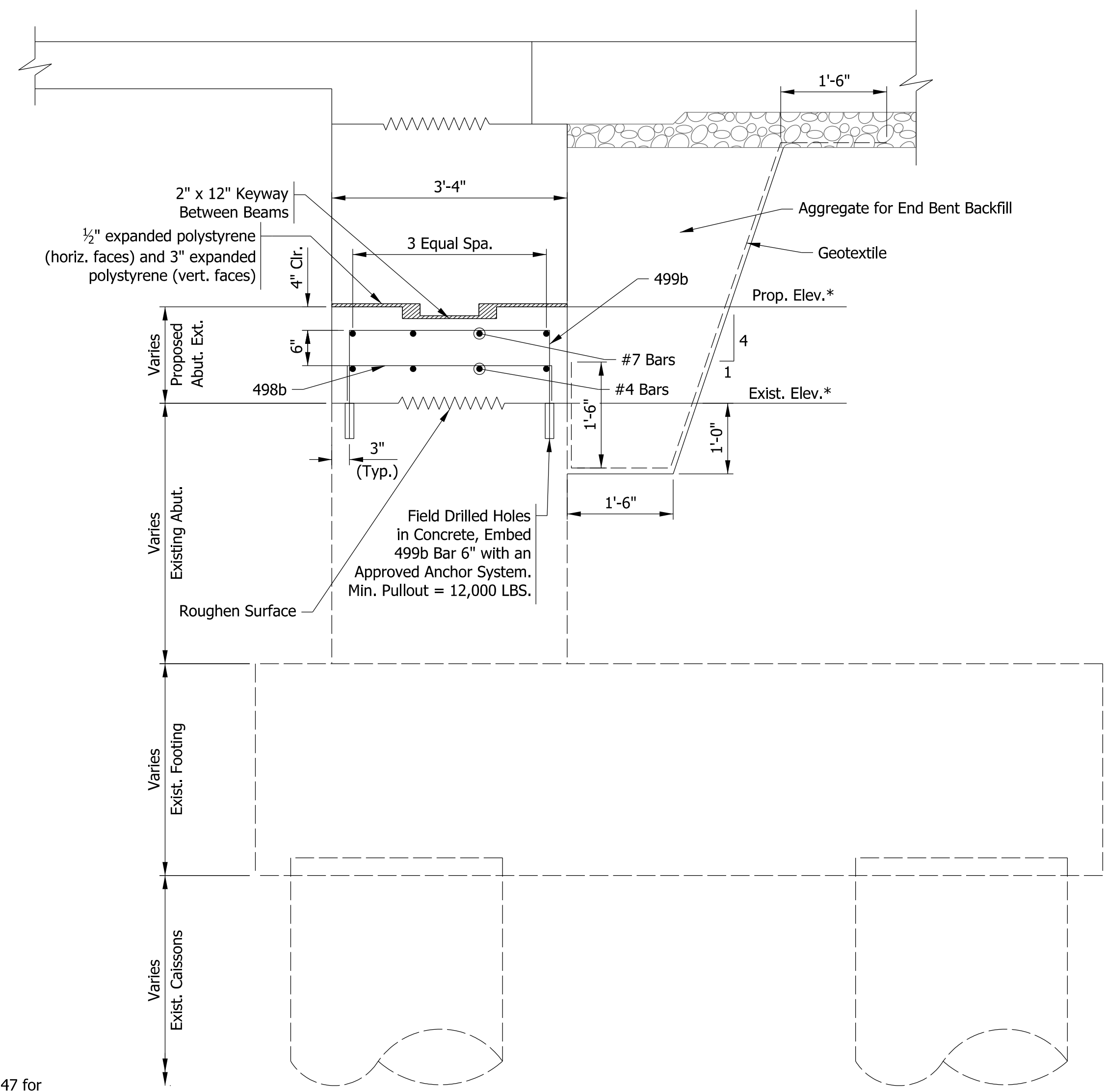
INDIANA DEPARTMENT OF TRANSPORTATION

ABUTMENT DETAILS

HORIZONTAL SCALE	BRIDGE FILE
1/4" = 1'-0"	41-45-02073B
VERTICAL SCALE	DESIGNATION
1/4" = 1'-0"	1172245
SURVEY BOOK	SHEETS
ELECTRONIC	47 of 86
CONTRACT	PROJECT
B-36676	1172245



SECTION A-A - ABUTMENT NO. 1 & 11



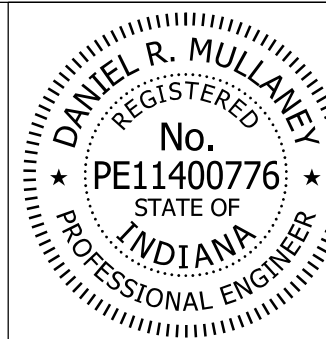
SECTION B-B - ABUTMENT NO. 1 & 11

\* - See Sheet No. 47 for Existing and Proposed Elevations.

**NOTES**

- 1) For Reinforcing Bar notes, See Std.Dwg.E 703-BRST-01.
- 2) All Reinforcing extending below bridge seat and in the Wingwalls is billed with the Abutments.

Model: Semi-Integral 8/17/2017 10:28:15 AM User: kharlison



RECOMMENDED FOR APPROVAL *Dan Mullaney* 8/16/2017  
 DESIGN ENGINEER DATE

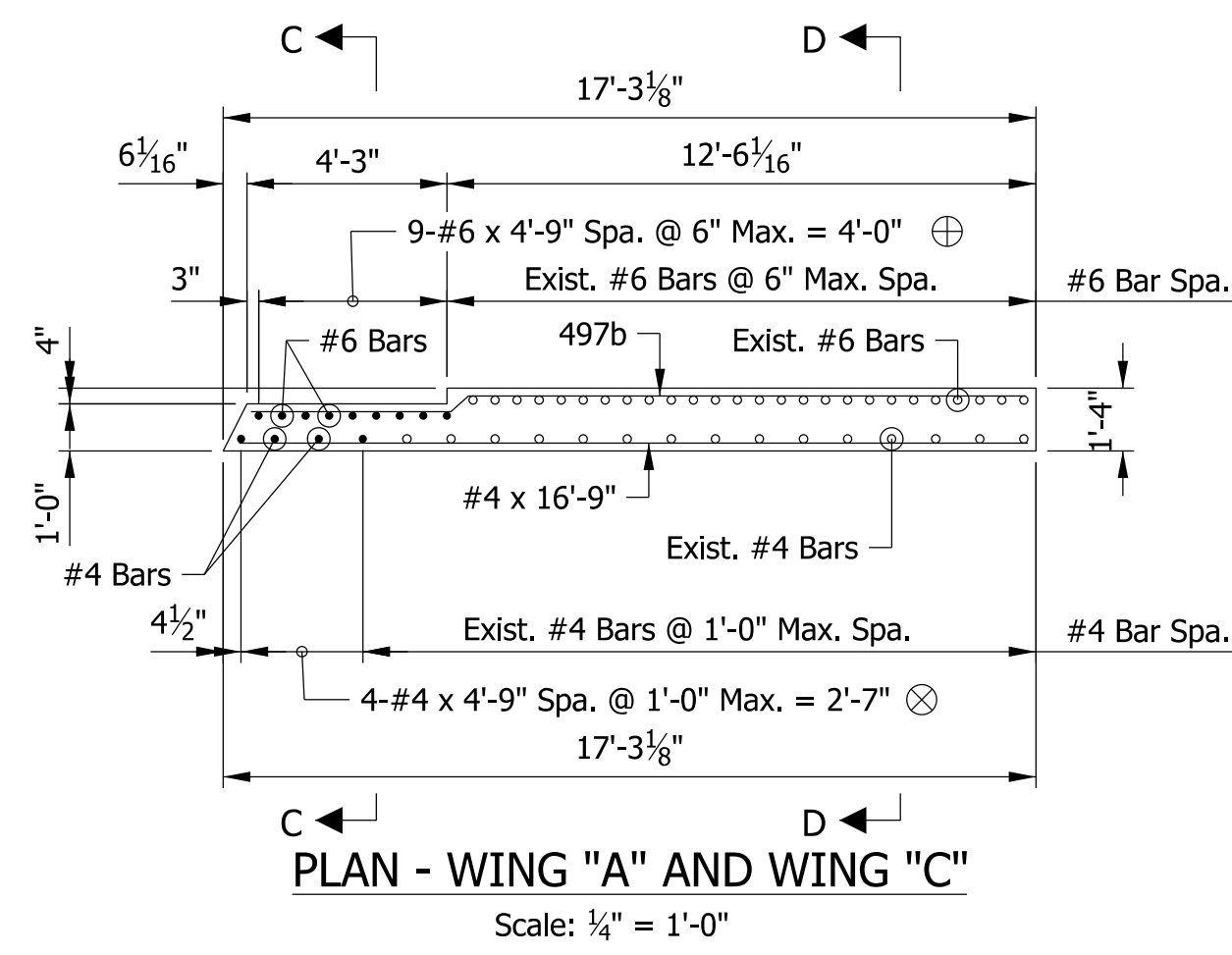
DESIGNED: \_\_\_\_\_ DRM DRAWN: \_\_\_\_\_ BTS  
 CHECKED: \_\_\_\_\_ MJF CHECKED: \_\_\_\_\_ DRM

**INDIANA  
DEPARTMENT OF TRANSPORTATION**

**ABUTMENT DETAILS**

HORIZONTAL SCALE	BRIDGE FILE
3/4" = 1'-0"	41-45-02073B
VERTICAL SCALE	DESIGNATION
3/4" = 1'-0"	1172245
SURVEY BOOK	SHEETS
ELECTRONIC	48 of 86
CONTRACT	PROJECT
B-36676	1172245

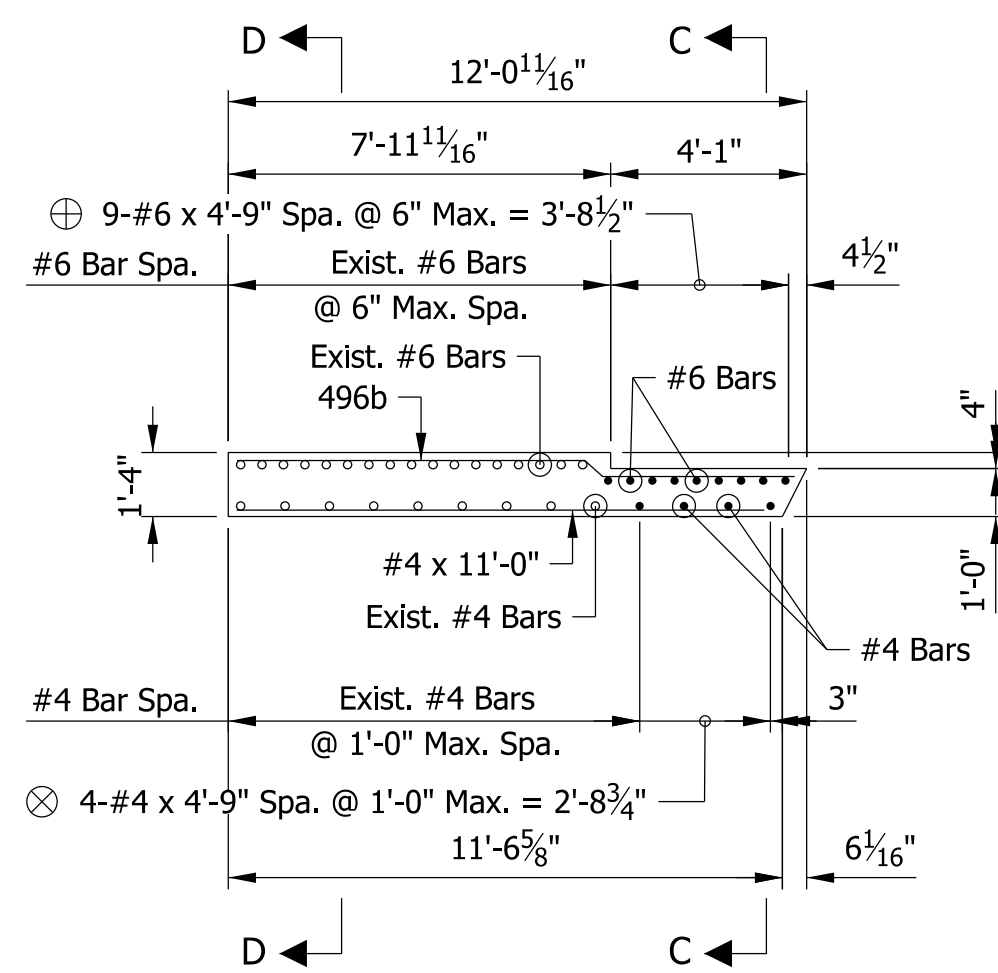




PLAN - WING "A" AND WING "C"

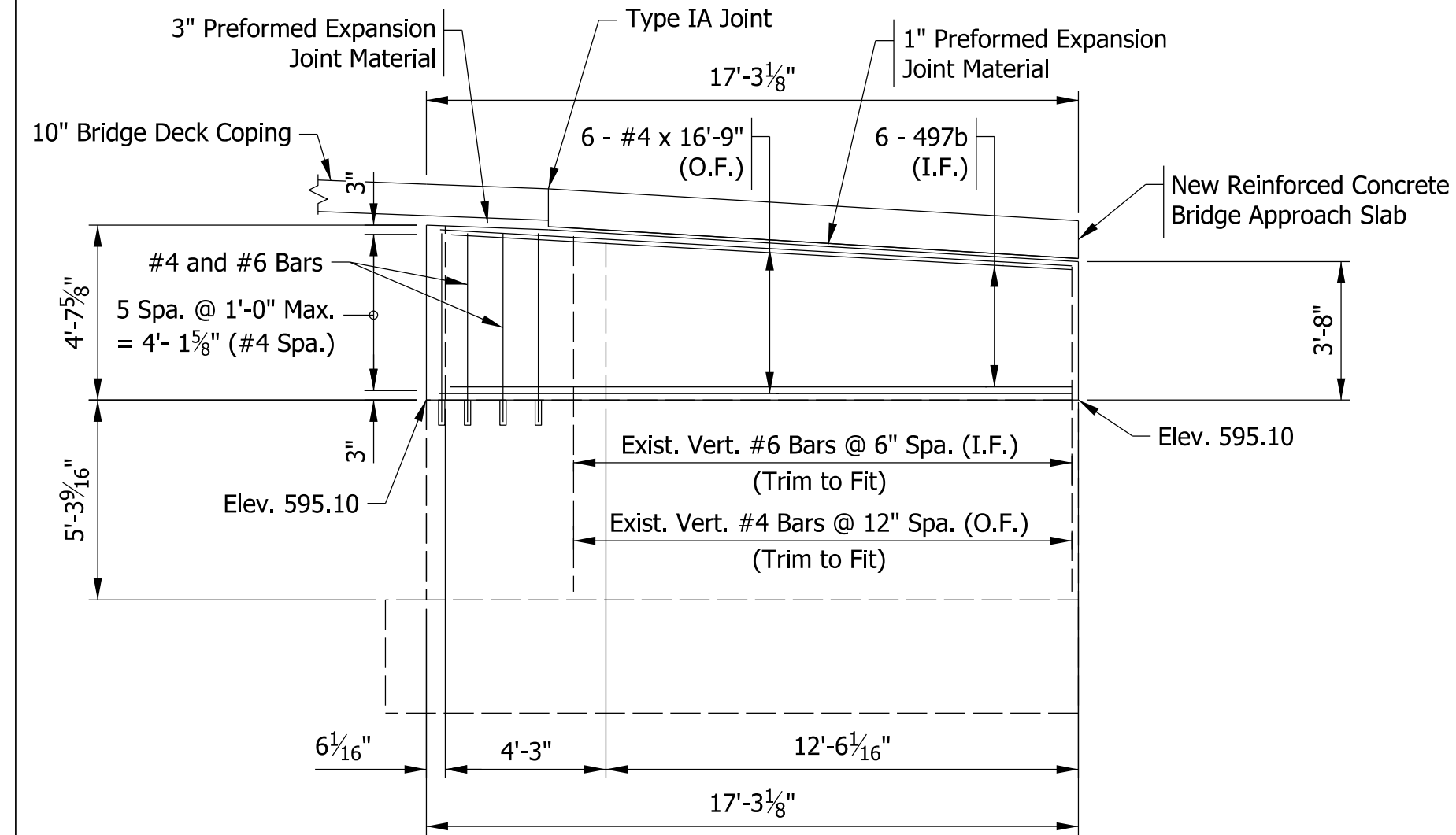
Scale: 1/4" = 1'-0"

- ⊕ #6 Bars to be set in field drilled holes in concrete. Embed bars 6" with an approved anchor system with min. pullout of 26.4 kip
- ⊗ #4 Bars to be set in field drilled holes in concrete. Embed bars 6" with an approved anchor system with min. pullout of 12.0 kip



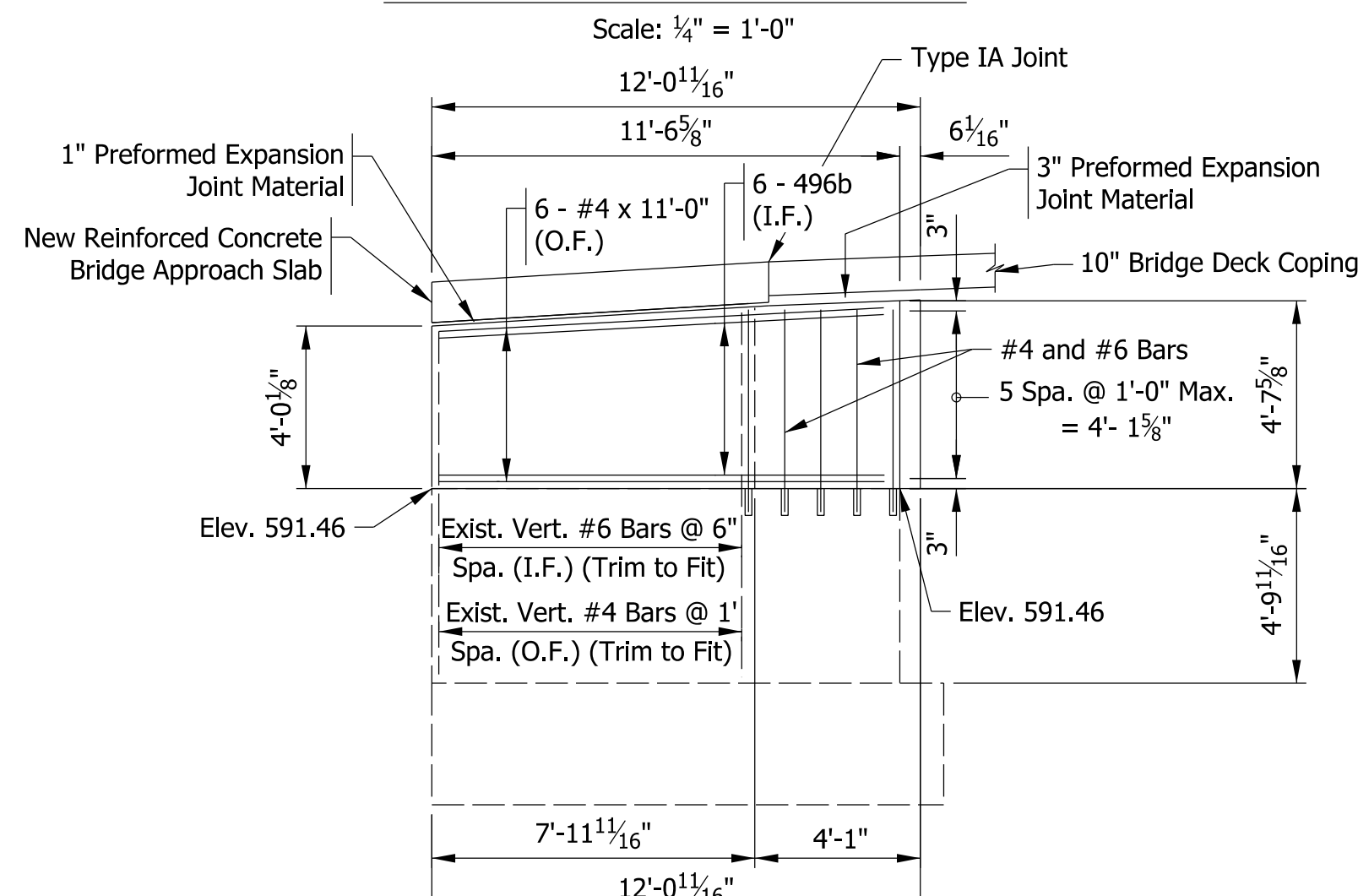
PLAN - WING "B" AND WING "D"

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



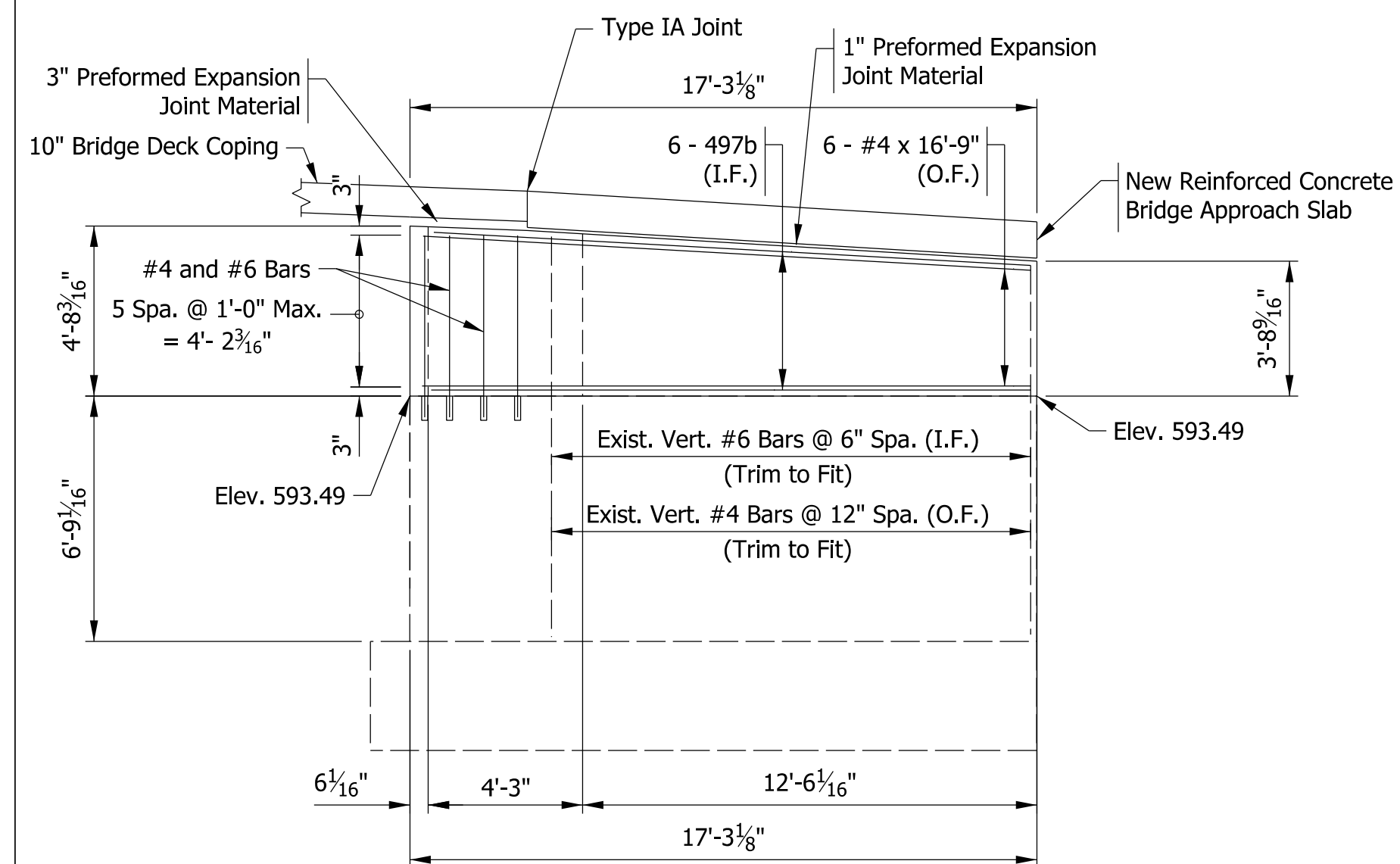
ELEVATION - WING "A"

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



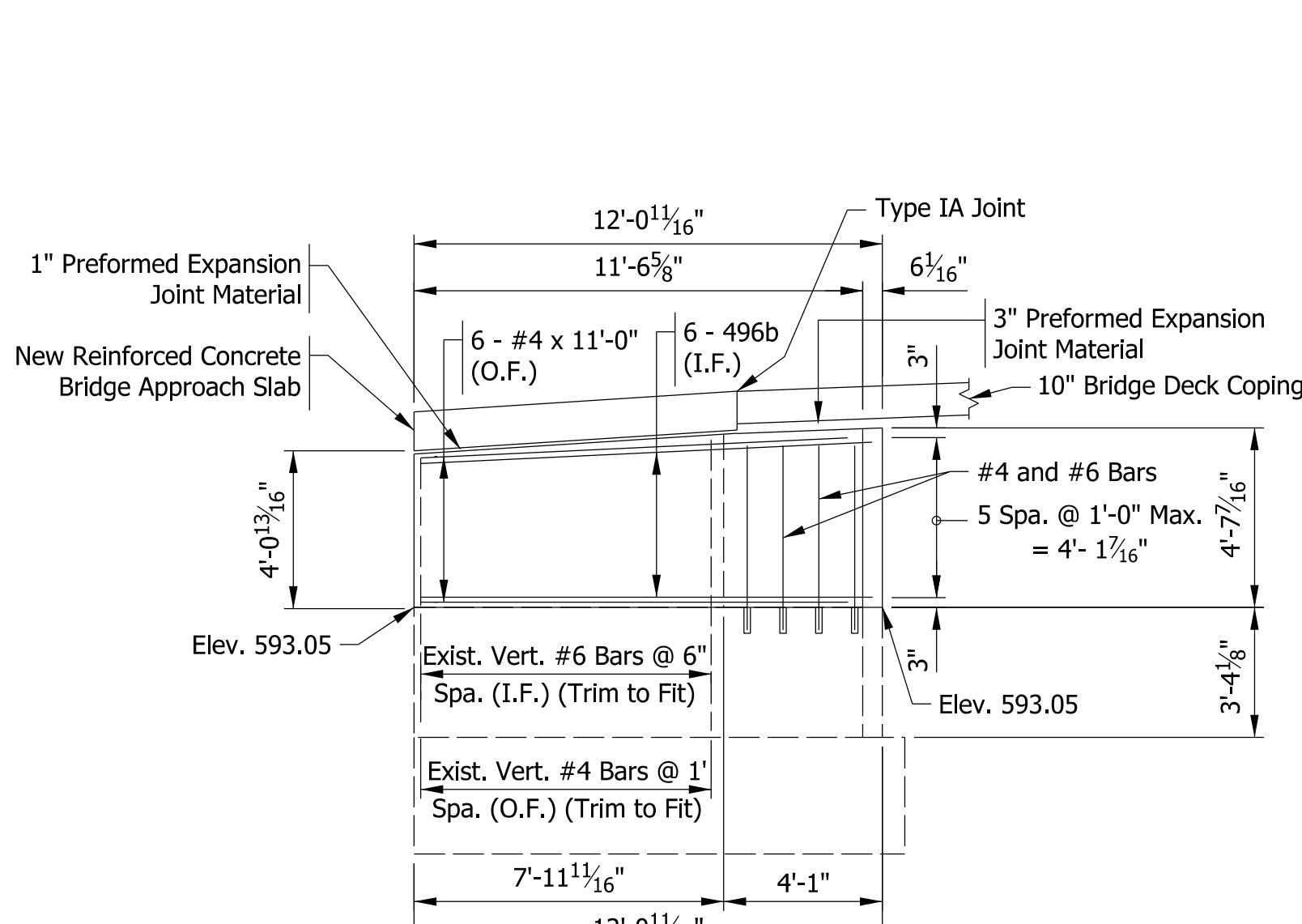
ELEVATION - WING "B"

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



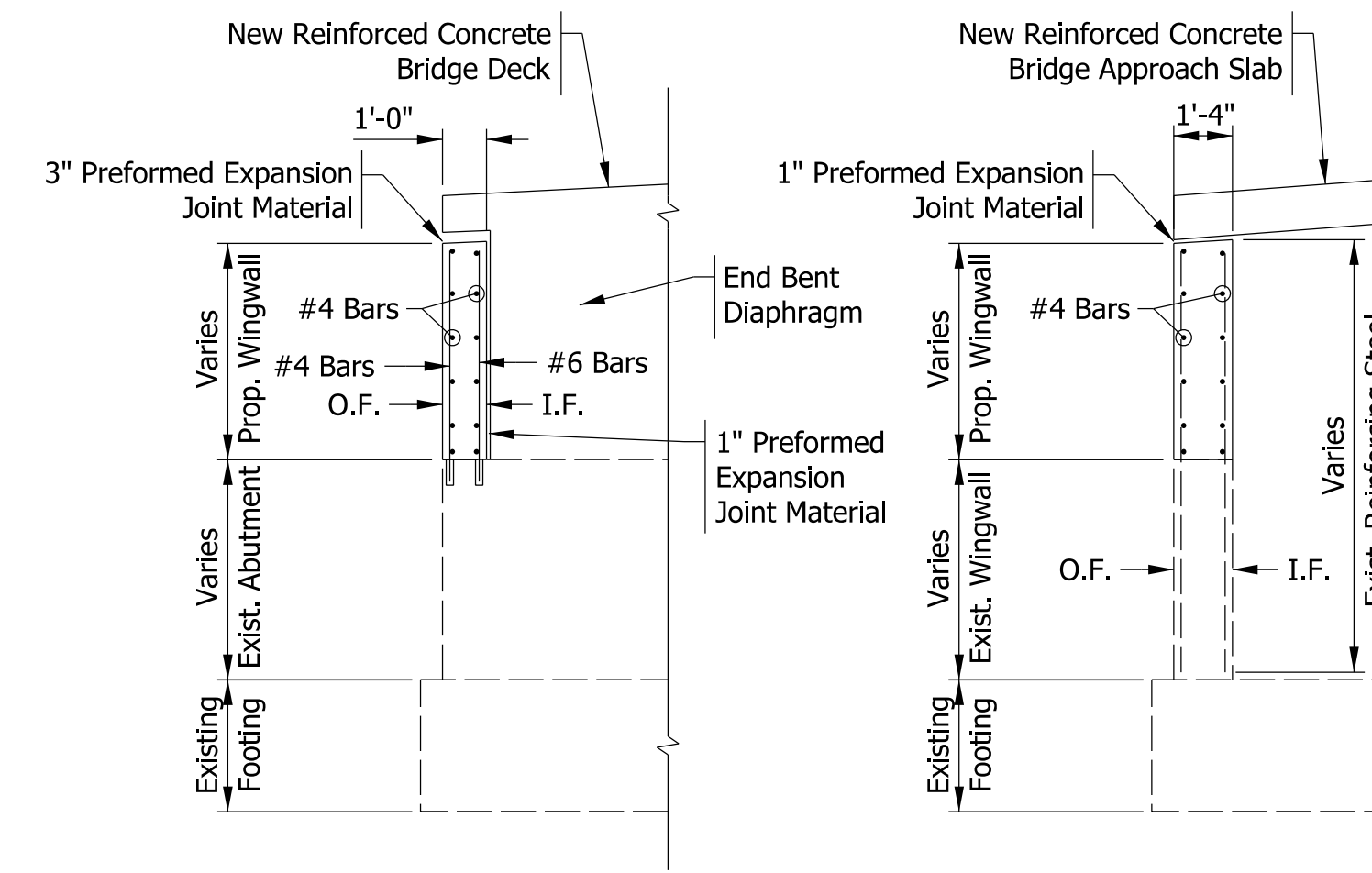
ELEVATION - WING "C"

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



ELEVATION - WING "D"

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

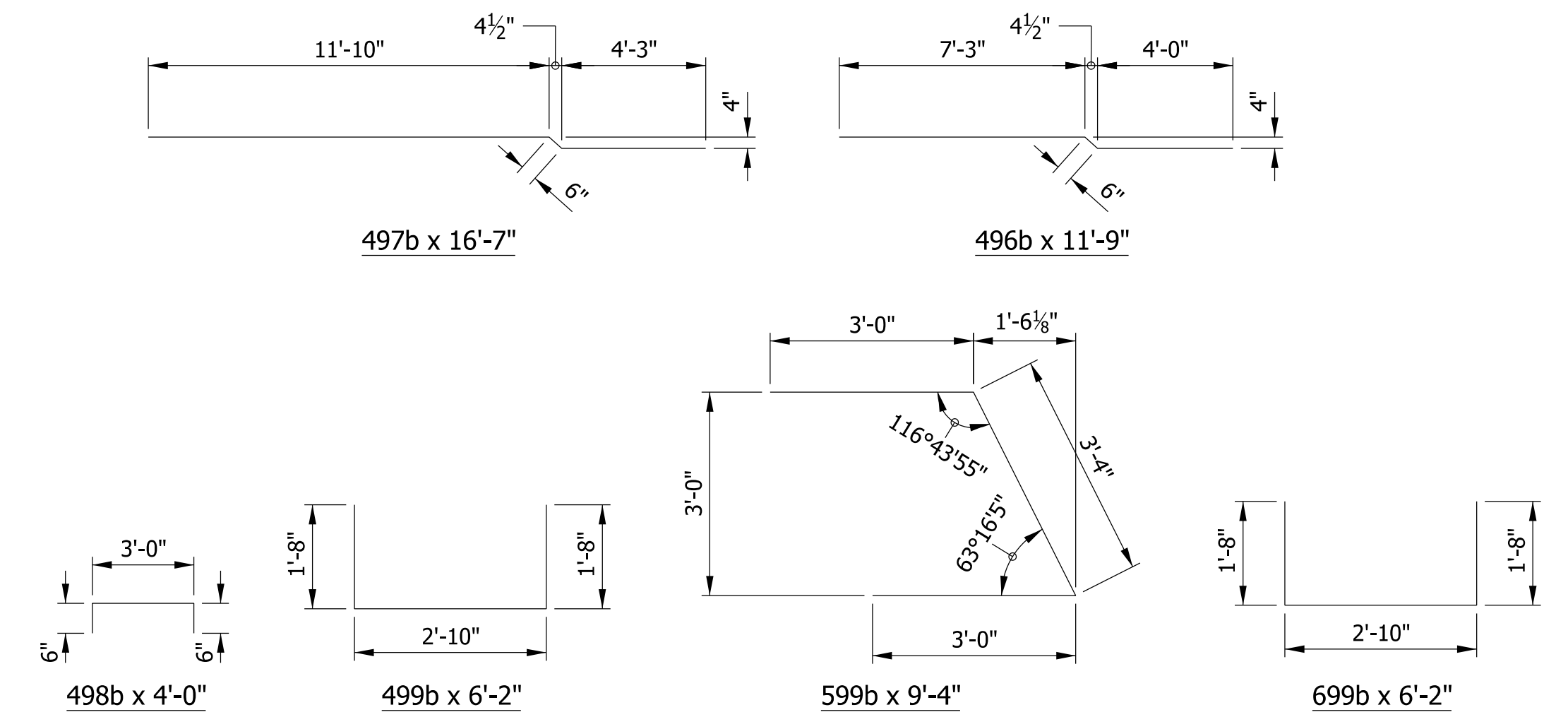


SECTION C-C - WINGWALLS

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

SECTION D-D - WINGWALLS

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



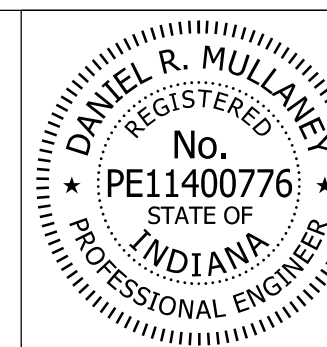
BAR BENDING DETAILS

Not to Scale

BILL OF MATERIALS			
ABUTMENT NO. 1 (ABUTMENT NO. 11 SAME)			
EPOXY COATED REINFORCING STEEL			
Size or Mark	Number of Bars	Length (ft)	Weight (Lbs)
#8	16	20' -6"	
Total #8			876
#7	8	22' -6"	
Total #7			368
699b	42	6' -2"	
#6	18	4' -9"	
Total #6			518
599b	8	9' -4"	
Total #5			78
496b	6	11' -9"	
497b	6	16' -7"	
498b	79	4' -0"	
499b	37	6' -2"	
#4	8	18' -3"	
#4	6	16' -9"	
#4	6	11' -0"	
#4	8	4' -9"	
Total #4			712
TOTAL EPOXY COATED			2,552
CONCRETE			
Pour No. 1 (Cyd)			11.6
Pour No. 2 (Cyd)			10.4
Total Concrete, C, Substructure (Cys)			22.0
MISCELLANEOUS			
Threaded Tie Bar Assembly, Epoxy Coated (Each)			8
Aggregate for End Bent Backfill (Cys)			36
Field Drilled Hole In Concrete (Each)			184
Bearing Assembly Elastomeric, Type S3-B (Each)			12
Surface Seal (650 Sft)			1 LSUM

NOTES

- 1) For Reinforcing Bar notes, See Std.Dwg.E 703-BRST-01.
- 2) All Reinforcing in Abutments and Wingwalls is to be epoxy coated.
- 3) All Reinforcing extending below bridge seat and in the Wingwalls is filled with the Abutment.



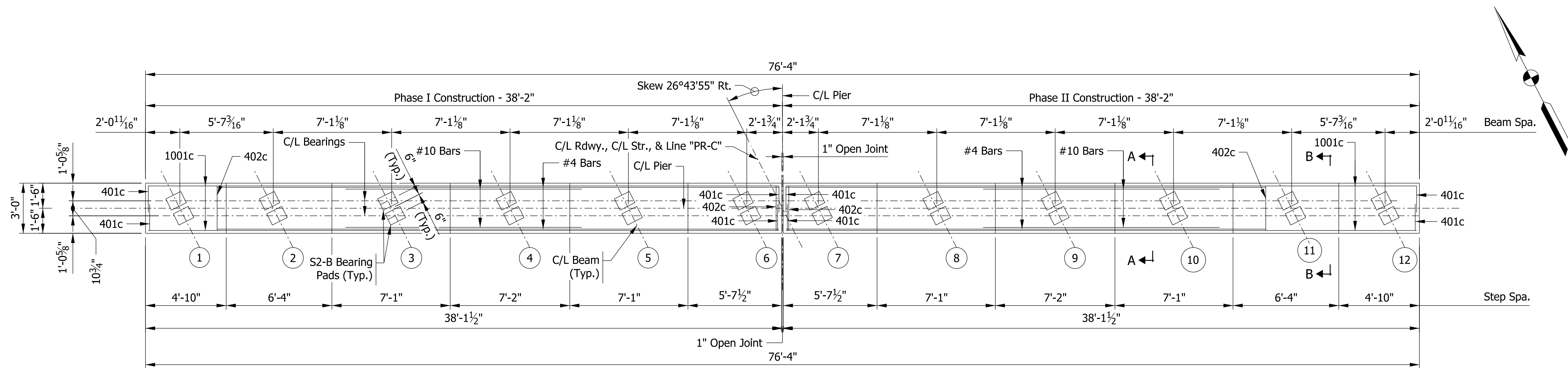
RECOMMENDED FOR APPROVAL: *Don Mullamery* 8/16/2017  
 DESIGN ENGINEER DATE

DESIGNED: DRM DRAWN: BTS  
 CHECKED: RKH CHECKED: DRM

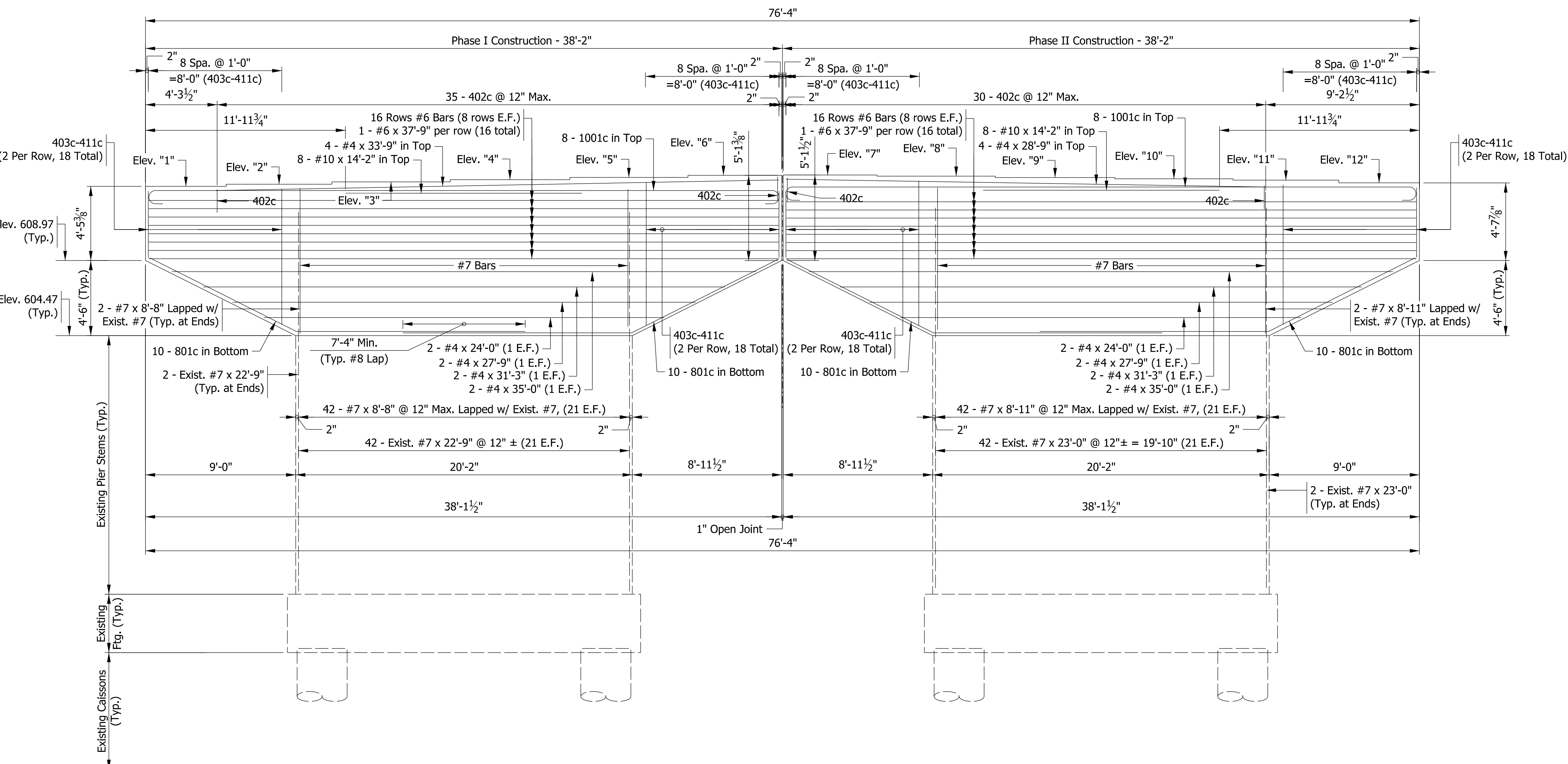
INDIANA  
 DEPARTMENT OF TRANSPORTATION

WINGWALL DETAILS

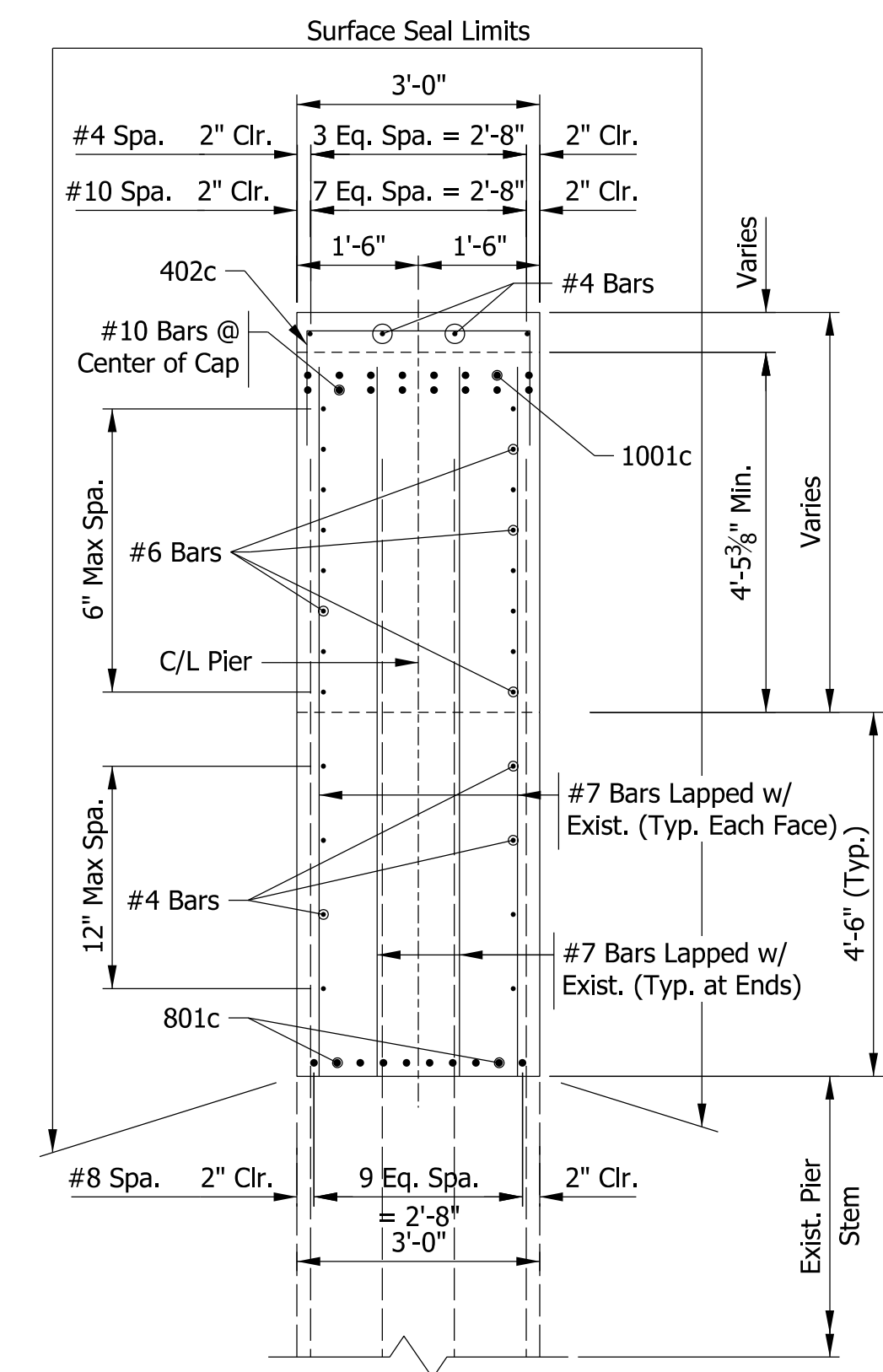
HORIZONTAL SCALE	BRIDGE FILE
AS NOTED	41-45-02073B
VERTICAL SCALE	DESIGNATION
AS NOTED	1172245
SURVEY BOOK	SHEETS
ELECTRONIC	49 of 86
CONTRACT	PROJECT
B-36676	1172245



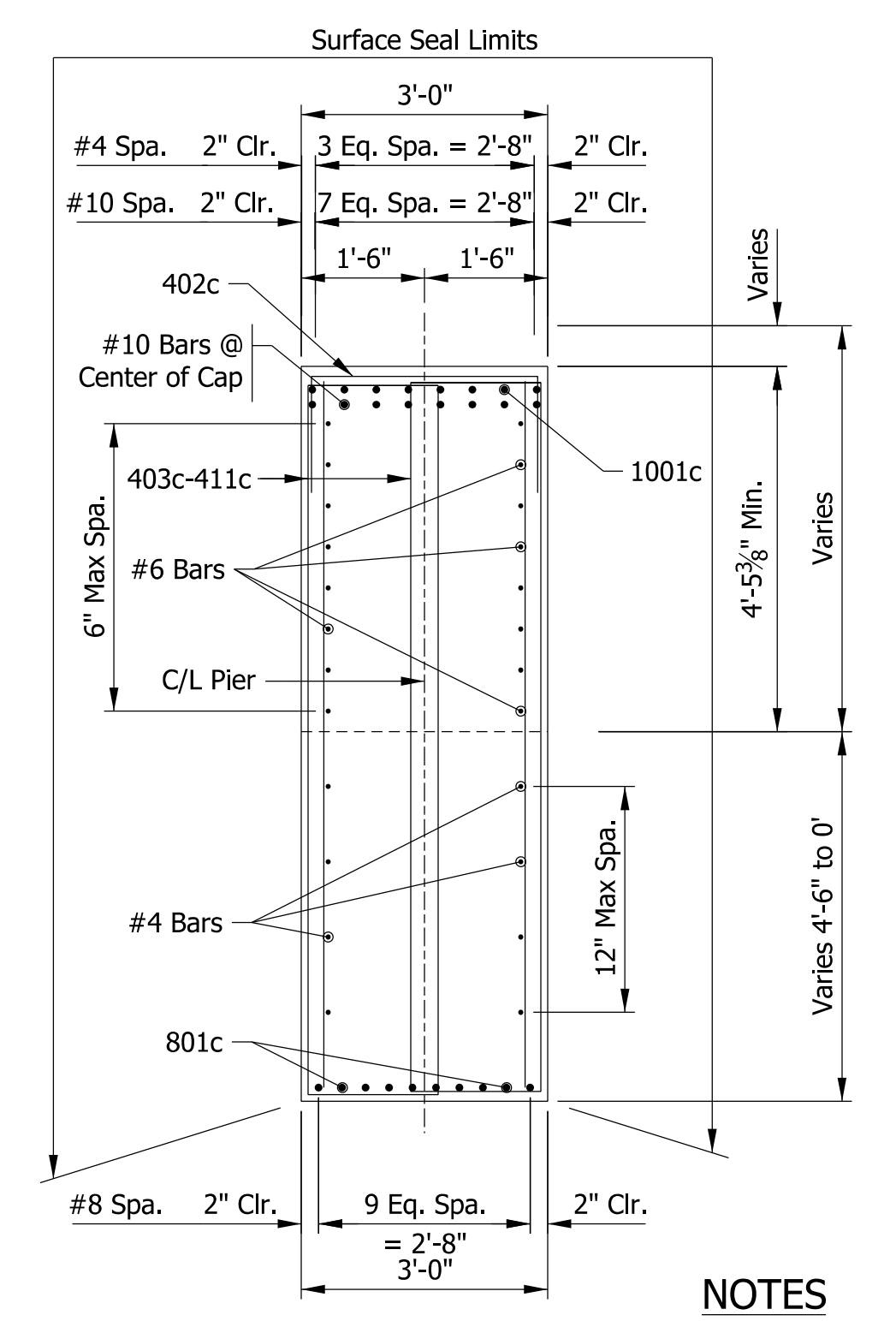
**CAP PLAN**  
Scale: 1/4" = 1'-0"



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



**SECTION A-A**  
Scale: 1/2" = 1'-0"

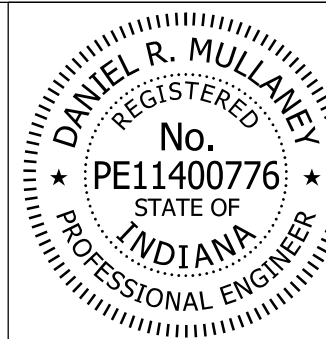


**SECTION B-B**  
Scale: 1/2" = 1'-0"

- NOTES**
- For reinforcing bar notes, see Std. Dwg. E 703-BRST-01.
  - See Sheet 53 for Bearing Assembly Details.
  - All reinforcing steel to be epoxy coated.

PIER ELEVATIONS	
PIER 6	
Elev. "1"	613.42
Elev. "2"	613.55
Elev. "3"	613.69
Elev. "4"	613.82
Elev. "5"	613.95
Elev. "6"	614.08
Elev. "7"	614.10
Elev. "8"	614.04
Elev. "9"	613.95
Elev. "10"	613.88
Elev. "11"	613.80
Elev. "12"	613.63

Model: Pier No. 6  
8/17/2017 10:28:17 AM User: kharison



RECOMMENDED FOR APPROVAL: *Dan Mullany* 8/16/2017  
DESIGN ENGINEER DATE

DESIGNED: MJF/MDP DRAWN: BTS  
CHECKED: DRM CHECKED: DRM

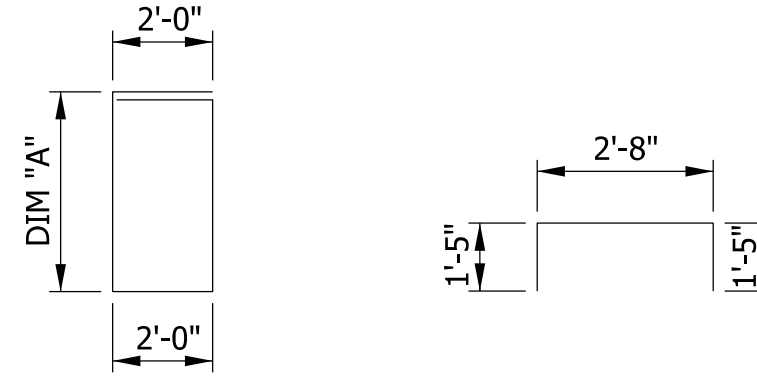
INDIANA  
DEPARTMENT OF TRANSPORTATION

PIER NO. 6 DETAILS

HORIZONTAL SCALE	BRIDGE FILE
AS NOTED	41-45-02073B
VERTICAL SCALE	DESIGNATION
AS NOTED	1172245
SURVEY BOOK	SHEETS
ELECTRONIC	50 of 86
CONTRACT	PROJECT
B-36676	1172245

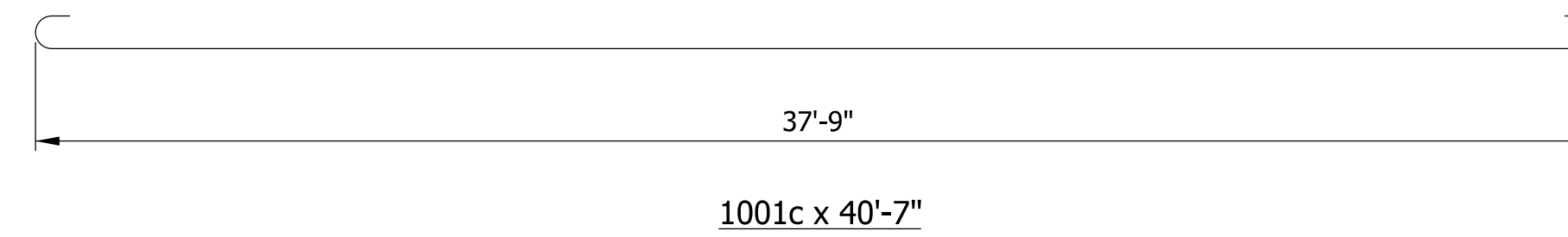
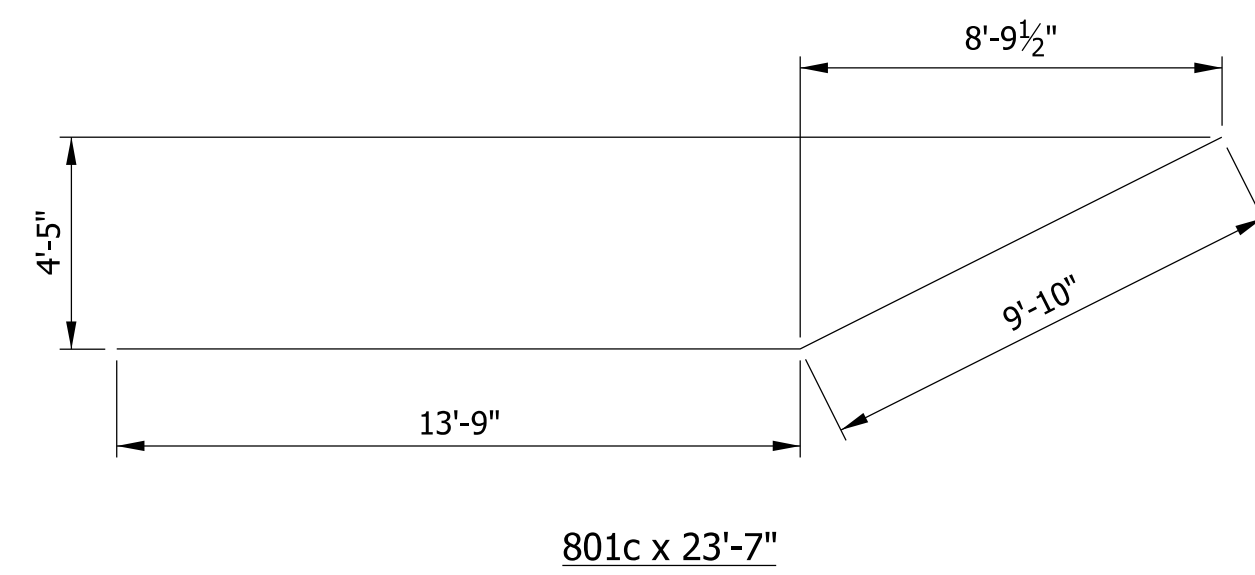
BILL OF MATERIALS			
PIER NO. 6			
EPOXY COATED REINFORCING STEEL			
Size or Mark	Number of Bars	Length (ft)	Weight (Lbs)
1001c	16	40' -7"	
#10	16	14' -2"	
Total #10			3,770
801c	40	23' -7"	
Total #8			2,519
#7	46	8' -11"	
#7	46	8' -8"	
Total #7			1,654
#6	32	37' -9"	
Total #6			1,815
402c	65	5' -6"	
403c	8	14' -4"	
404c	8	15' -4"	
405c	8	16' -4"	
406c	8	17' -4"	
407c	8	18' -4"	
408c	8	19' -4"	
409c	8	20' -4"	
410c	8	21' -4"	
411c	8	22' -4"	
#4	4	35' -0"	
#4	4	33' -9"	
#4	4	31' -3"	
#4	4	28' -9"	
#4	4	27' -9"	
#4	4	24' -0"	
Total #4			1,603
TOTAL EPOXY COATED			11,361
CONCRETE			
Pier Caps (Cyd)			41.2
Pier Stems (Cyd)			29.1
Total Concrete, C, Substructure (Cys)			70.3
MISCELLANEOUS			
Bearing Assembly Elastomeric, Type S2-B (Each)			24
Surface Seal (1,040 Sft)			1 LSUM

MARK	DIM "A"
403c	4'-2"
404c	4'-8"
405c	5'-2"
406c	5'-8"
407c	6'-2"
408c	6'-8"
409c	7'-2"
410c	7'-8"
411c	8'-2"



403c x 14'-4"  
 404c x 15'-4"  
 405c x 16'-4"  
 406c x 17'-4"  
 407c x 18'-4"  
 408c x 19'-4"  
 409c x 20'-4"  
 410c x 21'-4"  
 411c x 22'-4"

402c x 5'-6"

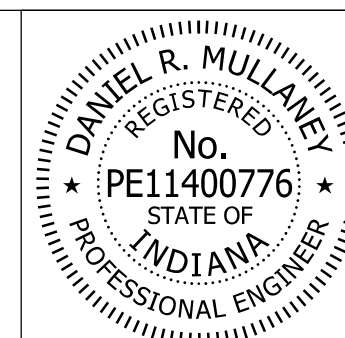


**BAR BENDING DETAILS**  
 Not to Scale

**NOTES**

- For reinforcing bar notes, see Std. Dwg. E 703-BRST-01.
- All reinforcing steel to be epoxy coated.

Model: Bar Bends  
 8/17/2017 10:28:18 AM User: kharlison

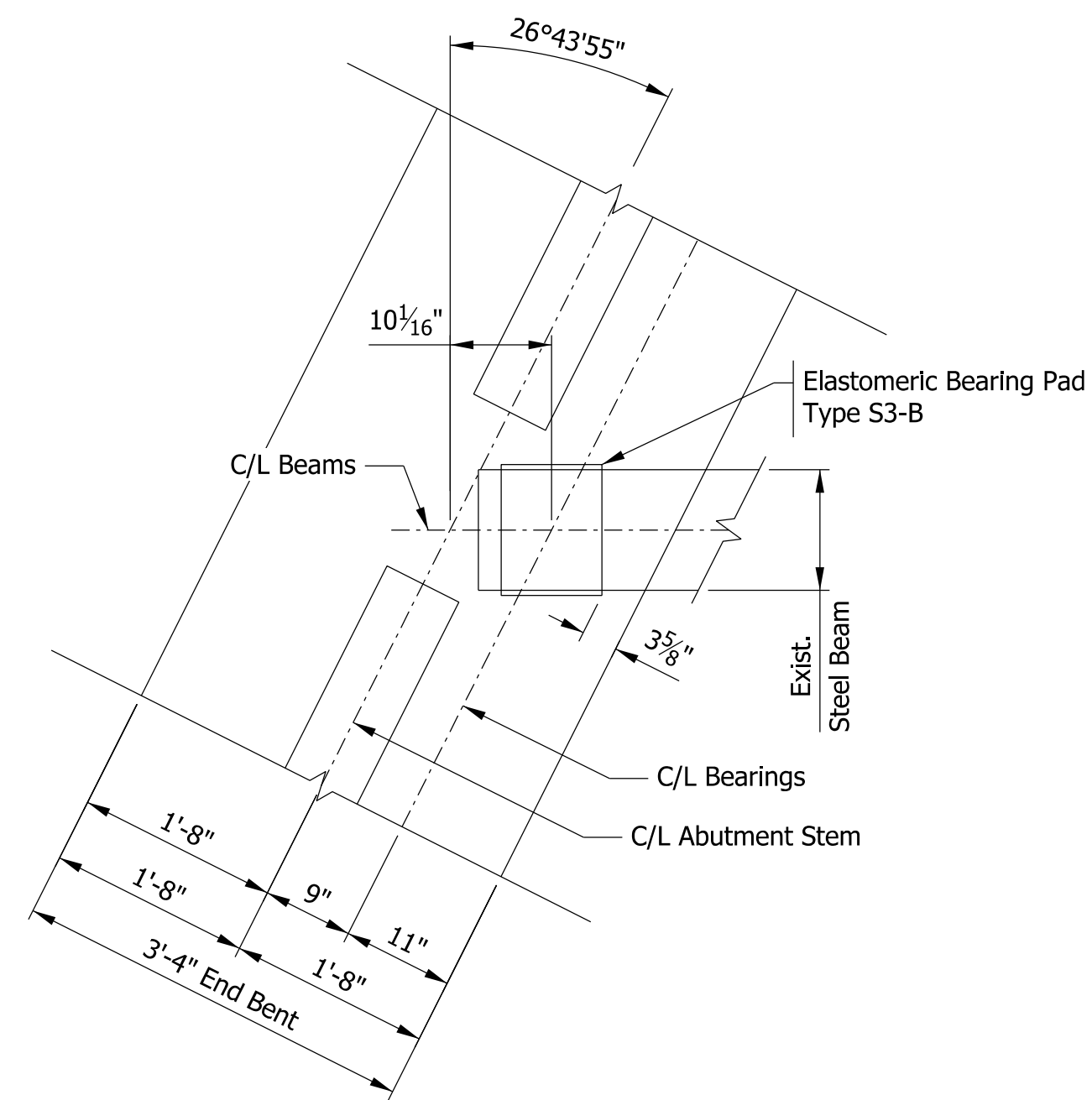


RECOMMENDED FOR APPROVAL	<i>Dan Mullamoney</i>	8/16/2017
	DESIGN ENGINEER	DATE
DESIGNED: MJF/MDP	DRAWN: BTS	
CHECKED: DRM	CHECKED: DRM	

INDIANA  
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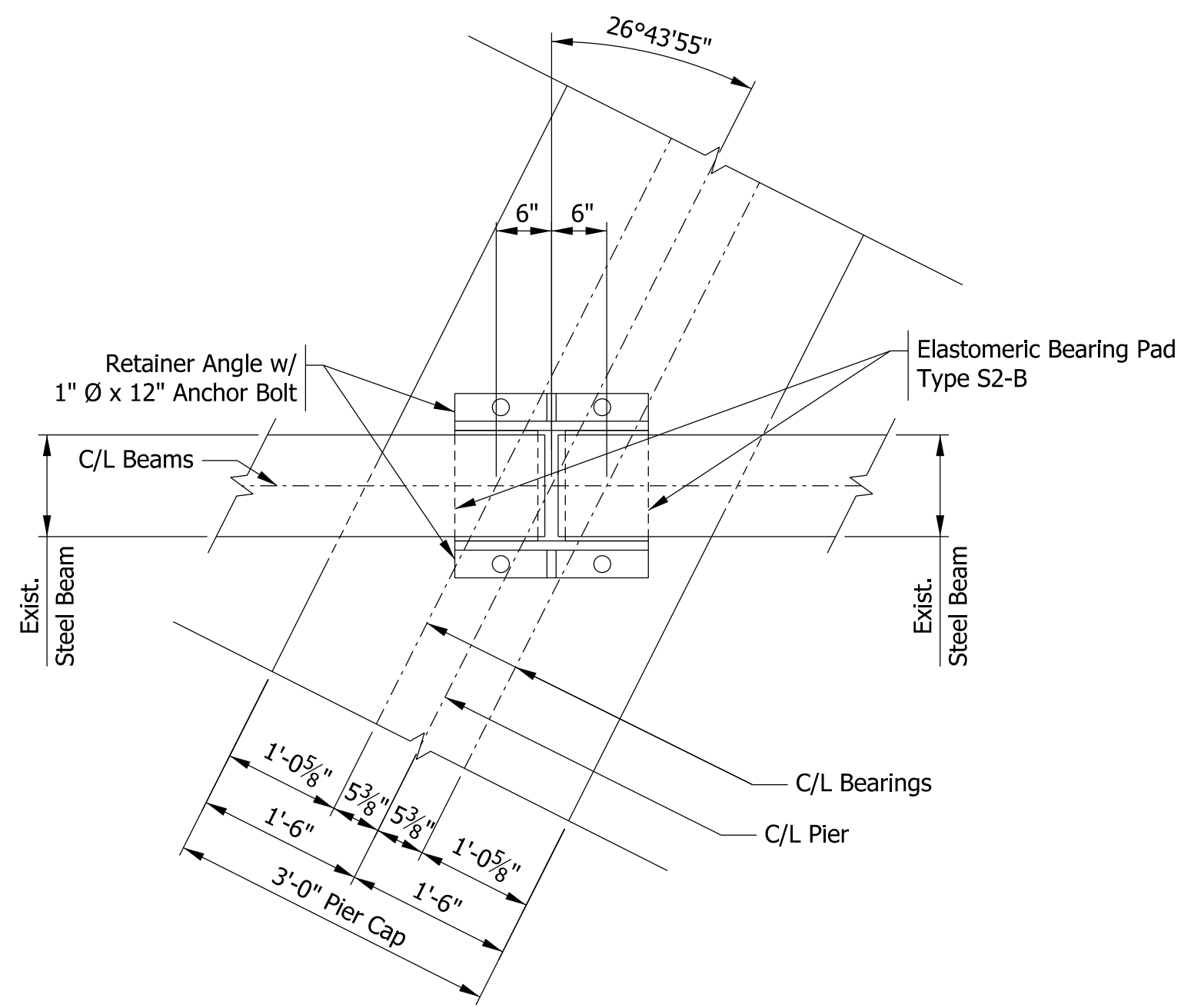
PIER NO. 6 DETAILS

HORIZONTAL SCALE	BRIDGE FILE
1/4" = 1'-0"	41-45-02073B
VERTICAL SCALE	DESIGNATION
1/4" = 1'-0"	1172245
SURVEY BOOK	SHEETS
ELECTRONIC	51 of 86
CONTRACT	PROJECT
B-36676	1172245



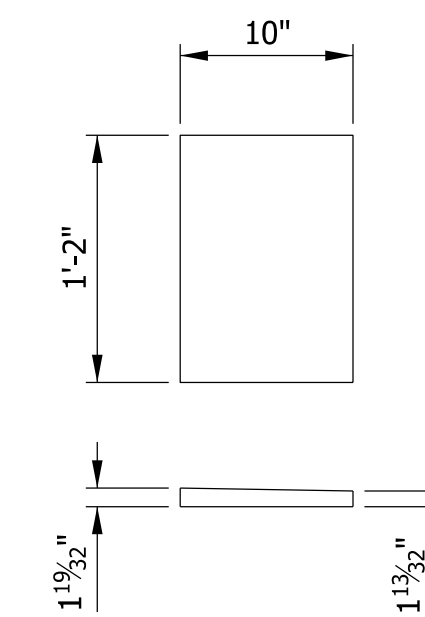
BEARING SEAT ON ABUTMENT - PLAN VIEW

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



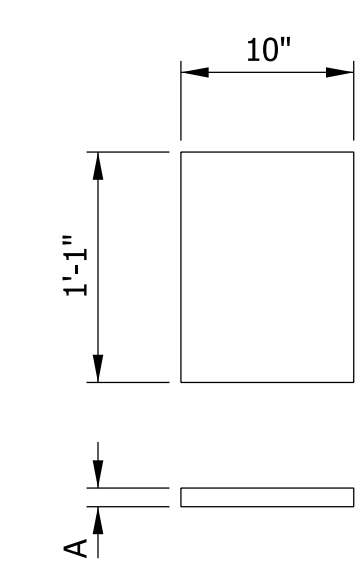
BEARING SEAT ON PIER - PLAN VIEW

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



STRUCTURAL STEEL BEVELED PLATE

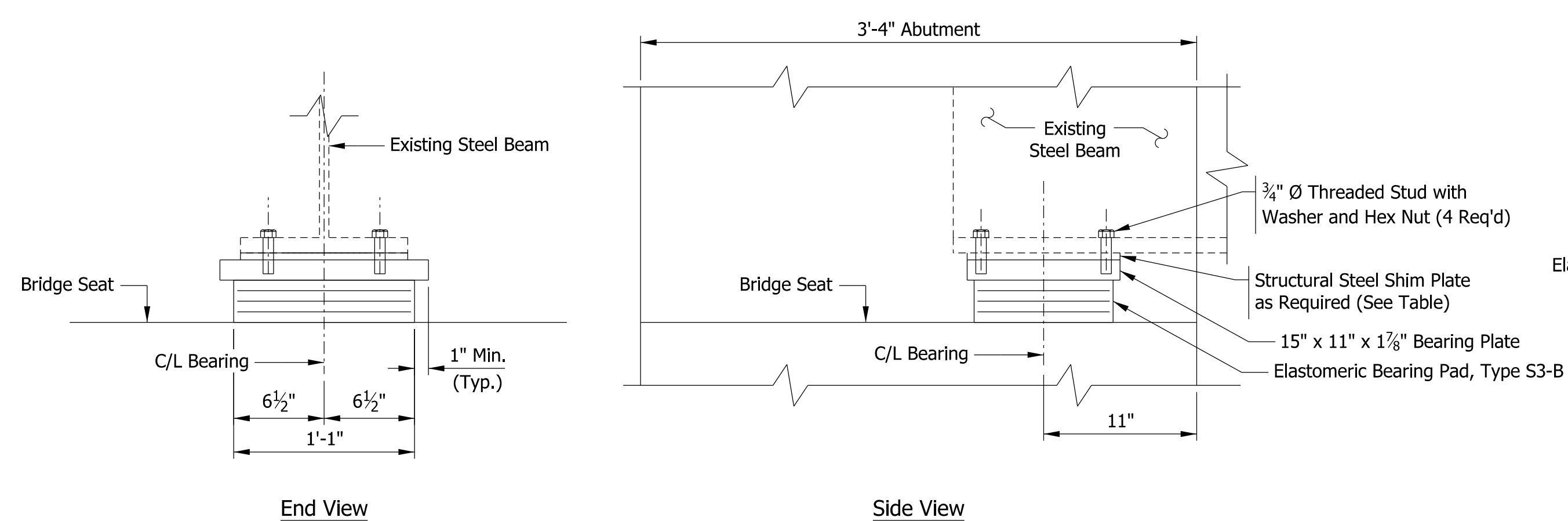
Not to Scale



STRUCTURAL STEEL SHIM PLATE

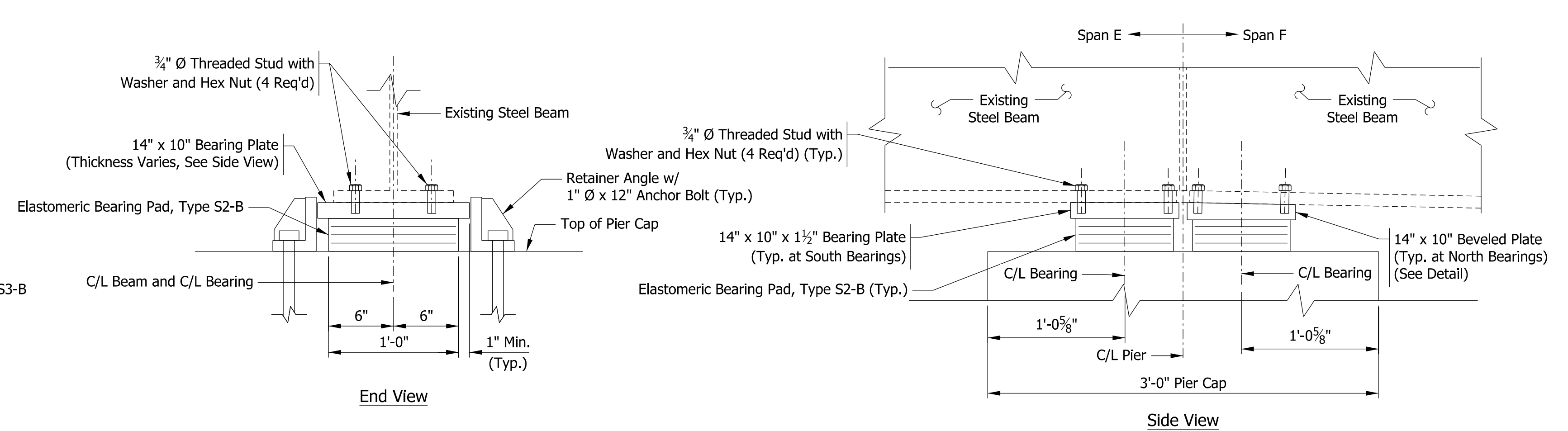
Not to Scale

	DIMENSION "A"	
	BENT 1	BENT 11
Beam 1	N/A	N/A
Beam 2	1 1/8"	N/A
Beam 3	N/A	N/A
Beam 4	1 1/8"	N/A
Beam 5	N/A	N/A
Beam 6	1 7/16"	N/A
Beam 7	N/A	1 3/8"
Beam 8	N/A	N/A
Beam 9	N/A	1 1/16"
Beam 10	N/A	N/A
Beam 11	N/A	1 1/16"
Beam 12	N/A	N/A



BEARING ASSEMBLY DETAILS - ABUTMENT NO. 1 & 11

Scale: 1 1/2" = 1'-0"

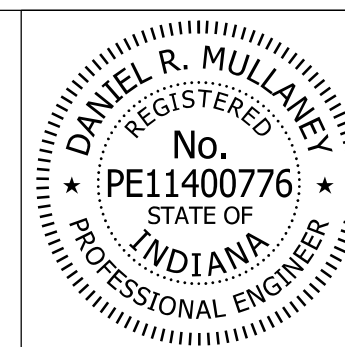


BEARING ASSEMBLY DETAILS - PIER NO. 6

Scale: 1 1/2" = 1'-0"

NOTES

- 1) See Std. Dwg. E 726-BEBP-04 thru 05 for Additional Bearing Assembly Details.
- 2) Bearing Assemblies to be billed with the Abutment and Pier Details.
- 3) See General Plan Typical Bridge Section, Sheet 41, for Beam Numbers.
- 4) Steel Bearing Plates to be Vulcanized to Elastomeric Bearings.

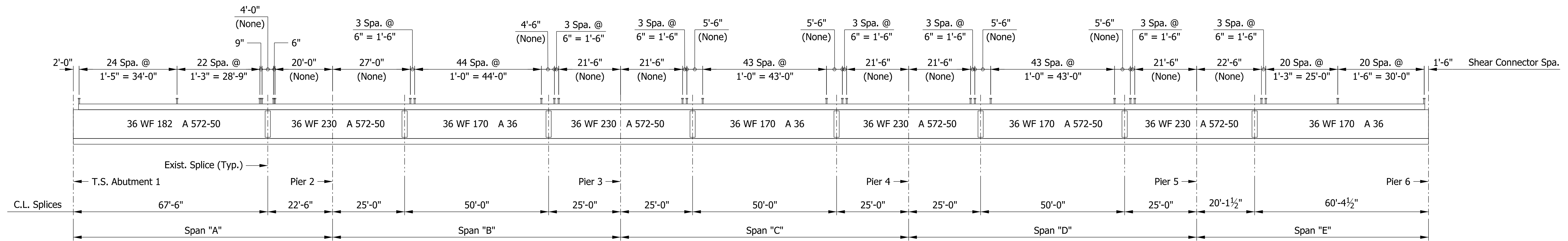


RECOMMENDED FOR APPROVAL: *Dan Mullane* 8/16/2017  
 DESIGN ENGINEER DATE  
 DESIGNED: MDP DRAWN: PFC/KCH  
 CHECKED: DRM CHECKED: DRM

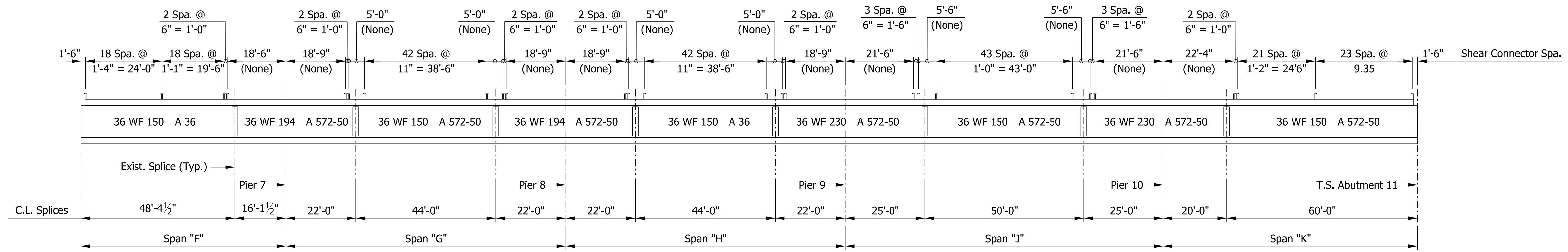
INDIANA  
 DEPARTMENT OF TRANSPORTATION

BEARING DETAILS

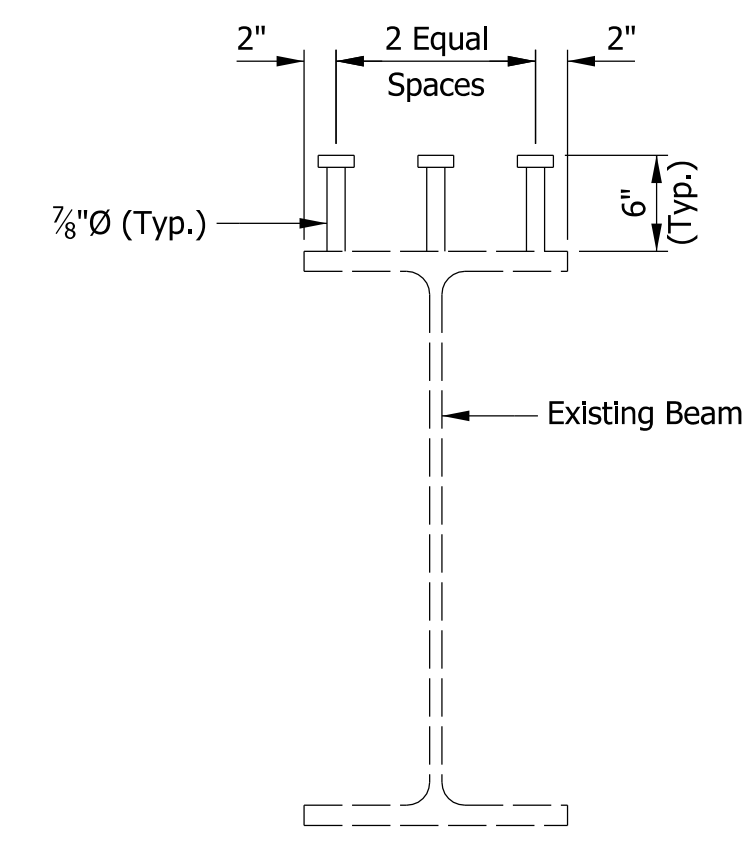
HORIZONTAL SCALE	BRIDGE FILE
AS NOTED	41-45-02073B
VERTICAL SCALE	DESIGNATION
AS NOTED	1172245
SURVEY BOOK	SHEETS
ELECTRONIC	52 of 86
CONTRACT	PROJECT
B-36676	1172245



**BEAM ELEVATION - SPANS A, B, C, D & E**  
Not to Scale

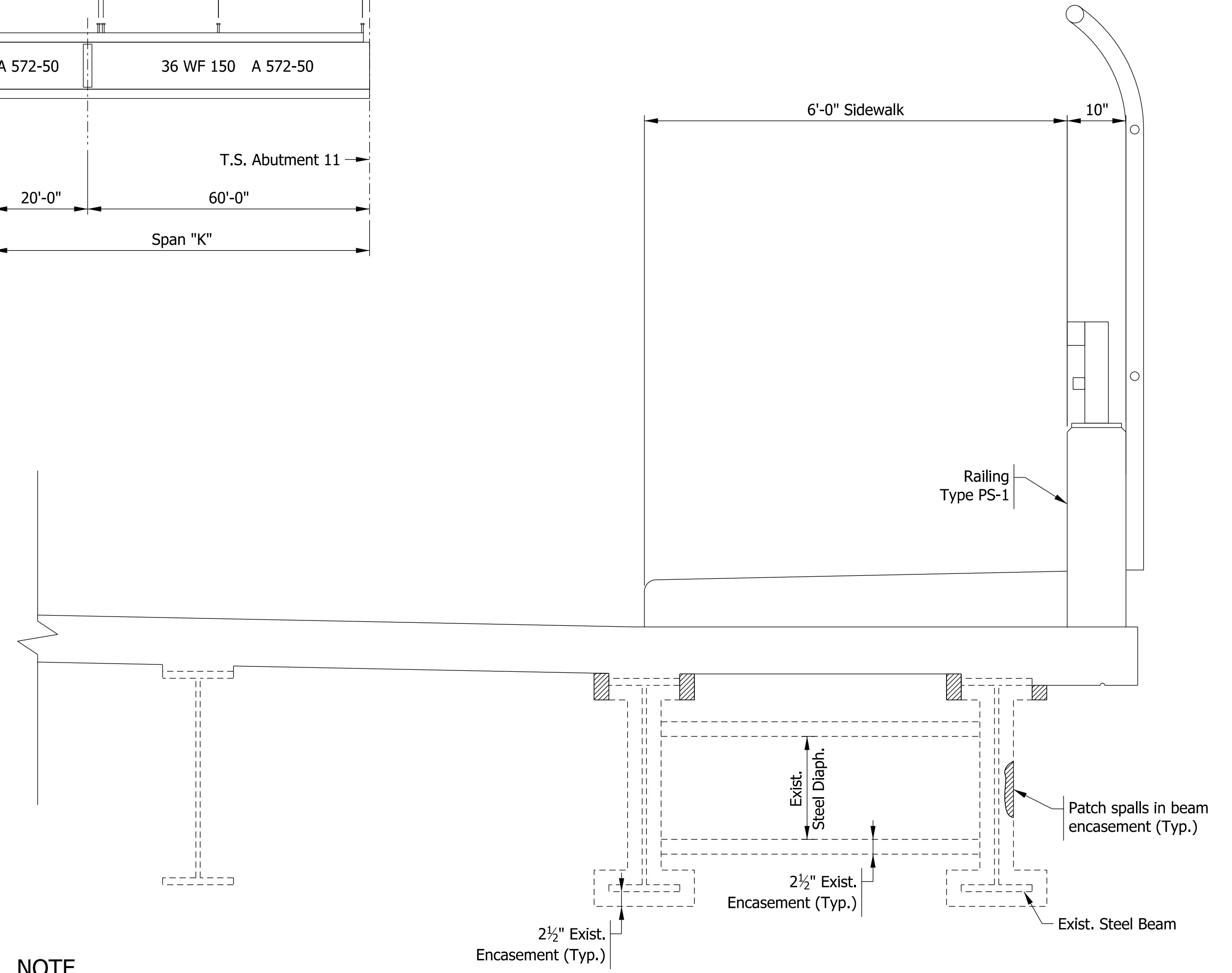


**BEAM ELEVATION - SPANS F, G, H, J, & K**  
Not to Scale



**BEAM SECTION**  
Scale: 1" = 1'-0"

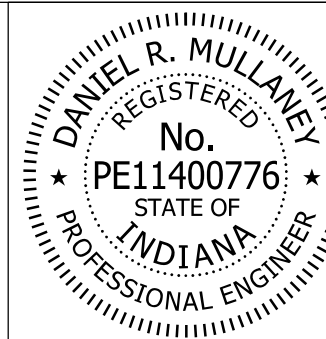
**NOTES:**  
Studs shall be automatically welded to the beam by the use of a stud welding gun. The welds shall be of sufficient strength to permit the studs to be bent 30°. Top of existing beam to be cleaned prior to installation of shear studs.



**NOTE**  
Beam encasement only present at spans C, D, F, G, H, J, and K.

**BEAM AND DIAPHRAGM ENCASEMENT DETAIL**  
Scale: 3/4" = 1'-0"

Model: Sheet 1  
8/17/2017 10:28:20 AM User: kharrison

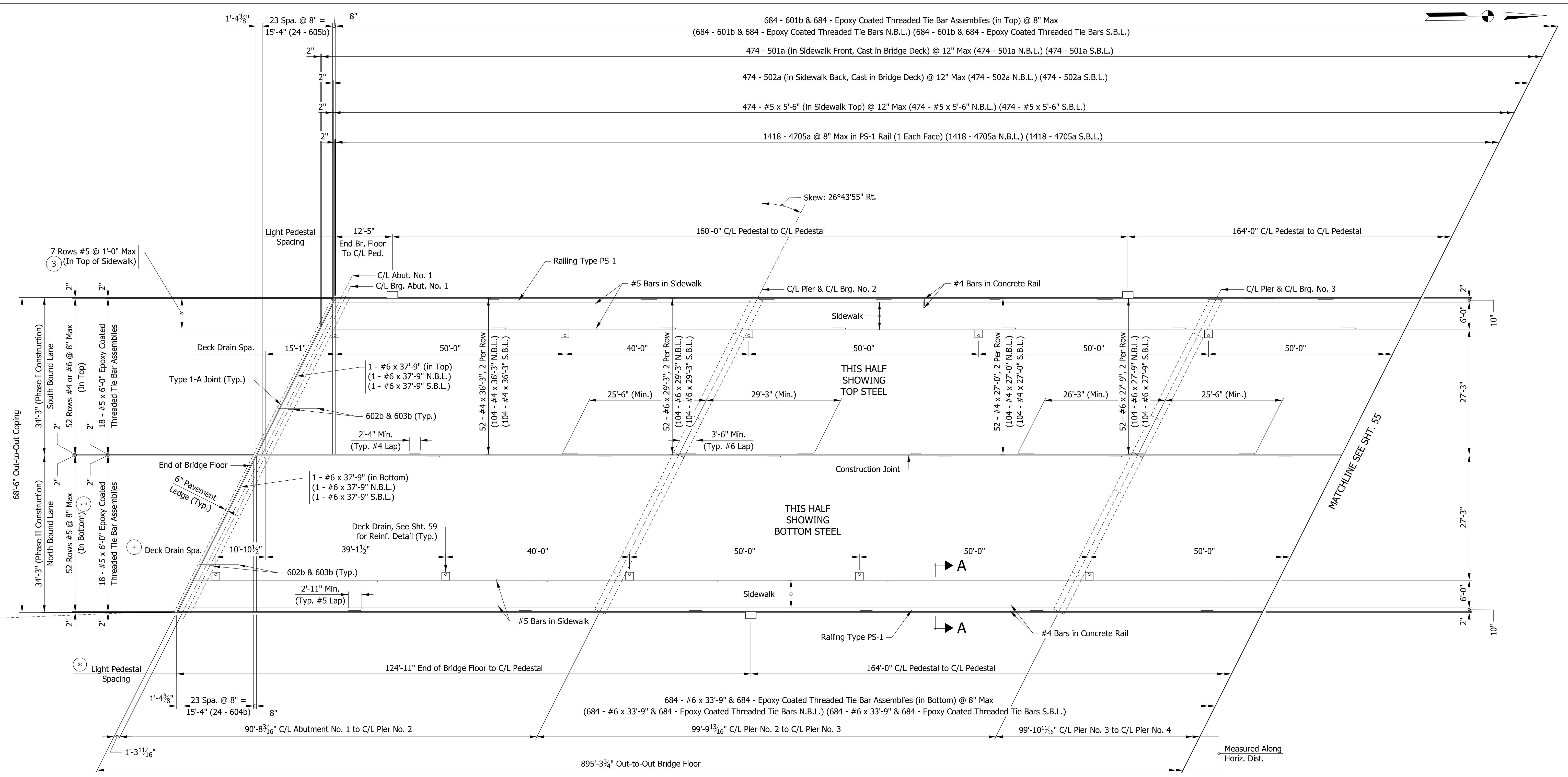


RECOMMENDED FOR APPROVAL	<i>Dan Mullane</i>	8/16/2017
DESIGNED:	DRM	DRAWN: PFC/BTS
CHECKED:	RKH	CHECKED: RKH

**INDIANA DEPARTMENT OF TRANSPORTATION**

**BEAM DETAILS**

HORIZONTAL SCALE	BRIDGE FILE
AS NOTED	41-45-02073B
VERTICAL SCALE	DESIGNATION
AS NOTED	1172245
SURVEY BOOK	SHEETS
ELECTRONIC	53 of 86
CONTRACT	PROJECT
B-36676	1172245



① 12 - #5 x 40'-0" and 1 - #5 x 27'-6" per Row  
 (624 - #5 x 40'-0" N.B.L.)  
 (624 - #5 x 40'-0" S.B.L.)  
 (52 - #5 x 27'-6" N.B.L.)  
 (52 - #5 x 27'-6" S.B.L.)

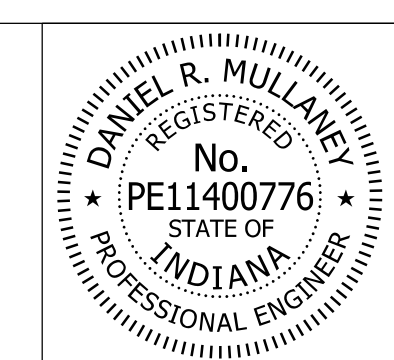
② 12 - #5 x 40'-0" and 1 - #5 x 27'-6" per Row  
 (84 - #5 x 40'-0" N.B.L.)  
 (84 - #5 x 40'-0" S.B.L.)  
 (7 - #5 x 27'-6" N.B.L.)  
 (7 - #5 x 27'-6" S.B.L.)

\* See Sheet 59 for Pedestal Additional Reinforcing and Details (Typ.)  
 + See Sheet 59 for Deck Drain Additional Reinforcing and Details (Typ.)

**FLOOR PLAN**  
 Scale: 3/32" = 1'-0"

- NOTES:**
- All reinforcing shall be epoxy-coated.
  - For reinforcing bar bending diagrams, see Sheet 60
  - The top reinforcing in the deck shall be securely tied down to the deck forms and/or beams to prevent lifting during concrete placement.
  - Suitable restraint shall be provided to prevent the rotation of the exterior beams from construction load such as finishing machine, forms, etc.
  - See sheet 58 for Section A-A.

Model: Sheet 1  
8/17/2017 10:28:21 AM User: kharrison



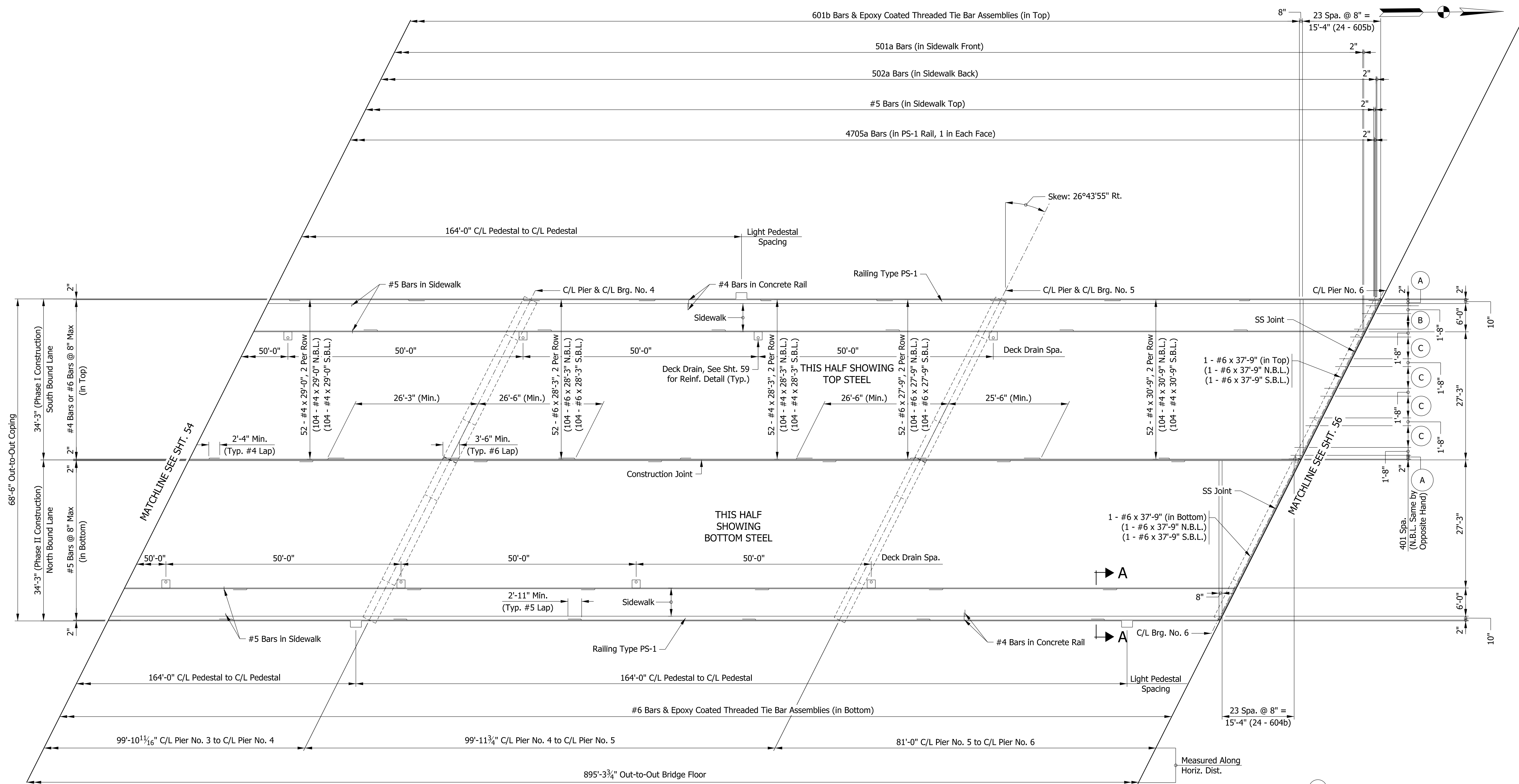
RECOMMENDED FOR APPROVAL: *Don Mullane* 8/16/2017  
 DESIGN ENGINEER DATE

DESIGNED: KAB DRAWN: BTS  
 CHECKED: RKH CHECKED: KAB

INDIANA  
 DEPARTMENT OF TRANSPORTATION

**SUPERSTRUCTURE DETAILS**

HORIZONTAL SCALE	BRIDGE FILE
AS NOTED	41-45-02073B
VERTICAL SCALE	DESIGNATION
N/A	1172245
SURVEY BOOK	SHEETS
ELECTRONIC	54 of 86
CONTRACT	PROJECT
B-36676	1172245

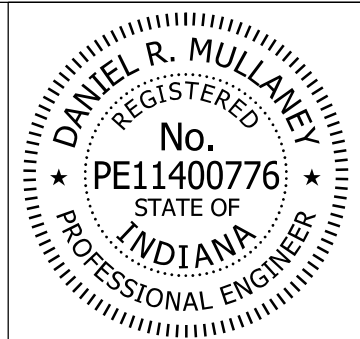


- A 2 - 401a @ 1'-0" Max Spa.
- B 5 - 401a @ 1'-0" Max Spa.
- C 6 - 401a @ 1'-0" Max Spa.

- NOTES:**
- All reinforcing shall be epoxy-coated.
  - For reinforcing bar bending diagrams, see Sheet 60
  - The top reinforcing in the deck shall be securely tied down to the deck forms and/or beams to prevent lifting during concrete placement.
  - Suitable restraint shall be provided to prevent the rotation of the exterior beams from construction load such as finishing machine, forms, etc.
  - See sheet 58 for Section A-A.

**FLOOR PLAN**  
Scale: 3/32" = 1'-0"

Model: Sheet 2  
8/17/2017 10:28:22 AM User: kharrison



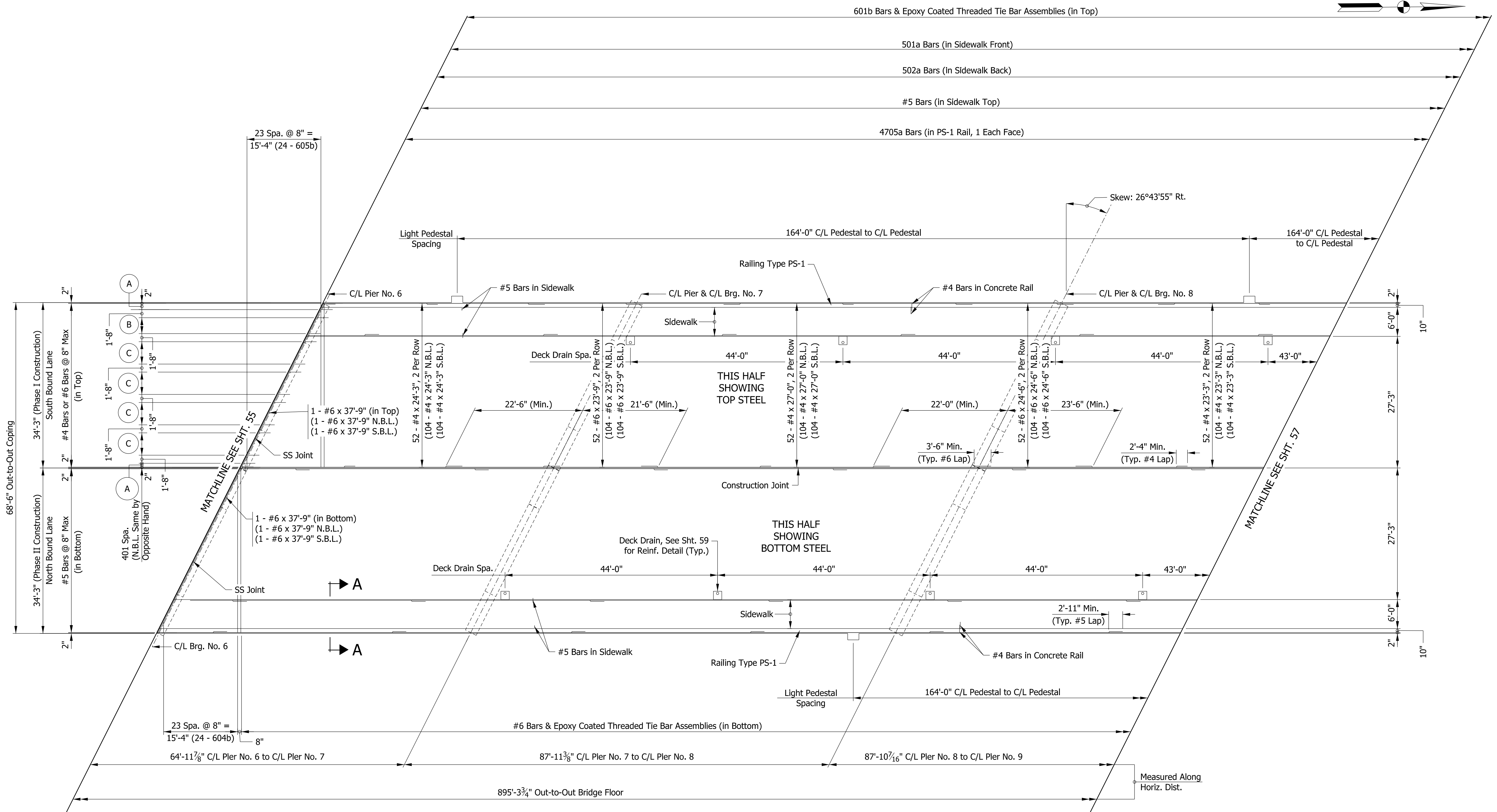
RECOMMENDED FOR APPROVAL: *Dan Mullane* 8/16/2017  
DESIGN ENGINEER DATE

DESIGNED: KAB DRAWN: BTS  
CHECKED: RKH CHECKED: KAB

INDIANA  
DEPARTMENT OF TRANSPORTATION

**SUPERSTRUCTURE DETAILS**

HORIZONTAL SCALE	BRIDGE FILE
AS NOTED	41-45-02073B
VERTICAL SCALE	DESIGNATION
N/A	1172245
SURVEY BOOK	SHEETS
ELECTRONIC	55 of 86
CONTRACT	PROJECT
B-36676	1172245

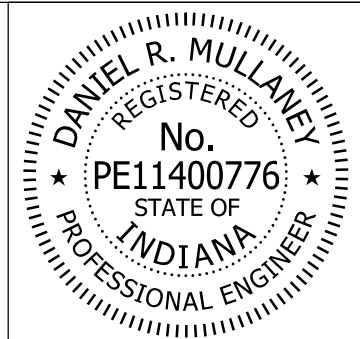


- A 2 - 401a @ 1'-0" Max Spa.
- B 5 - 401a @ 1'-0" Max Spa.
- C 6 - 401a @ 1'-0" Max Spa.

**FLOOR PLAN**  
Scale: 3/32" = 1'-0"

- NOTES:**
- All reinforcing shall be epoxy-coated.
  - For reinforcing bar bending diagrams, see Sheet 60
  - The top reinforcing in the deck shall be securely tied down to the deck forms and/or beams to prevent lifting during concrete placement.
  - Suitable restraint shall be provided to prevent the rotation of the exterior beams from construction load such as finishing machine, forms, etc.
  - See sheet 58 for Section A-A.

Model: Sheet3 8/17/2017 10:28:23 AM User: kharrison



RECOMMENDED FOR APPROVAL *Dan Mullaney* 8/16/2017  
DESIGN ENGINEER DATE

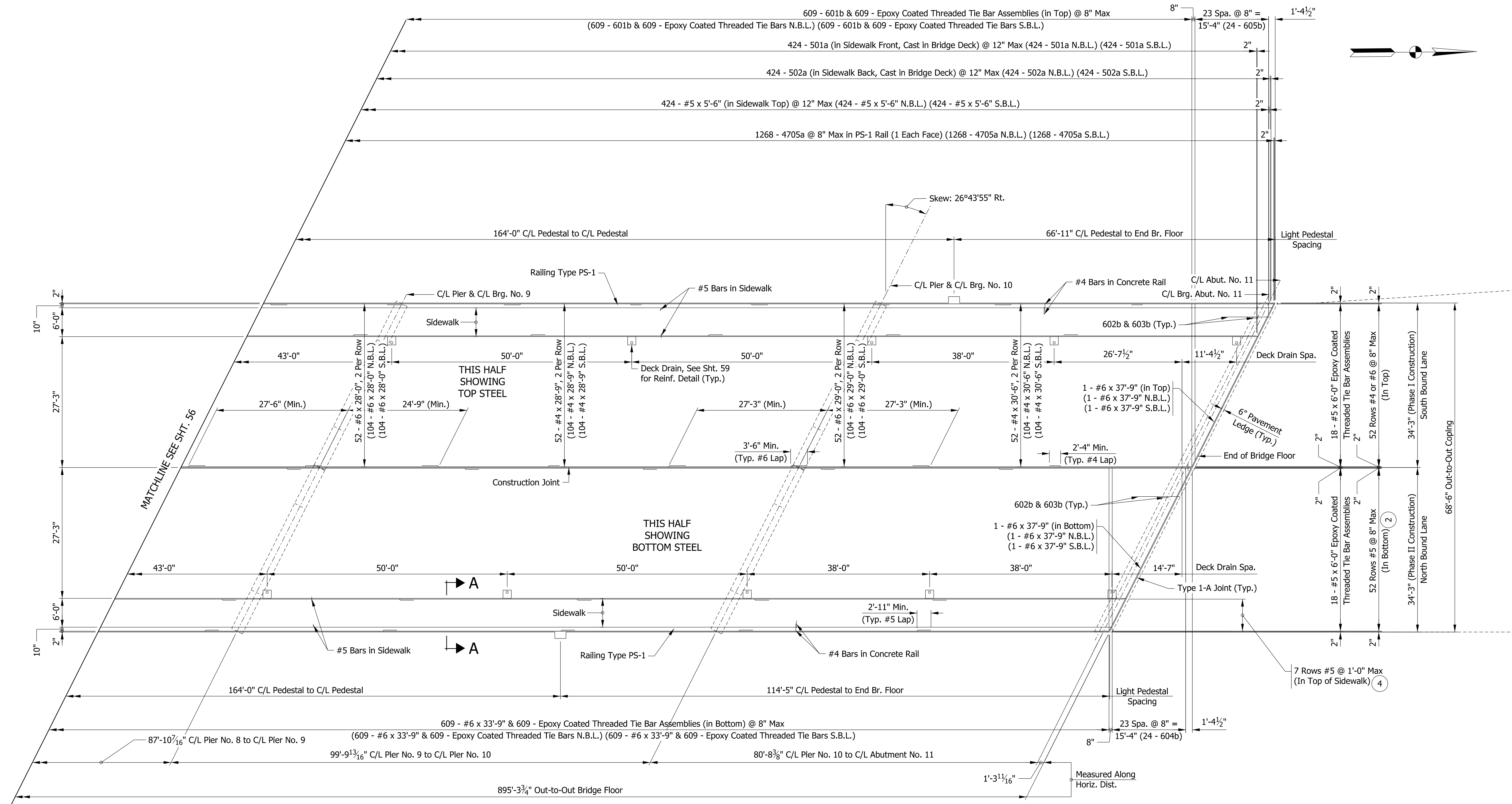
DESIGNED: KAB DRAWN: BTS  
CHECKED: RKH CHECKED: KAB

INDIANA  
DEPARTMENT OF TRANSPORTATION

**SUPERSTRUCTURE DETAILS**

HORIZONTAL SCALE	BRIDGE FILE
AS NOTED	41-45-02073B
VERTICAL SCALE	DESIGNATION
N/A	1172245
SURVEY BOOK	SHEETS
ELECTRONIC	56 of 86
CONTRACT	PROJECT
B-36676	1172245



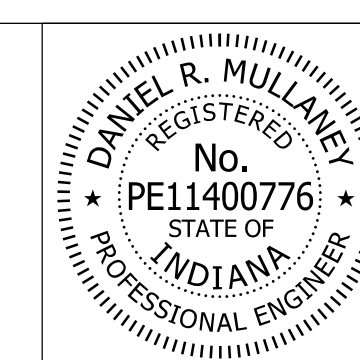


- ② 11 - #5 x 40'-0" and 1 - #5 x 14'-6" per Row  
(572 - #5 x 40'-0" N.B.L.)  
(572 - #5 x 40'-0" S.B.L.)  
(52 - #5 x 14'-6" N.B.L.)  
(52 - #5 x 14'-6" S.B.L.)
- ③ 11 - #5 x 40'-0" and 1 - #5 x 14'-6" per Row  
(77 - #5 x 40'-0" N.B.L.)  
(77 - #5 x 40'-0" S.B.L.)  
(7 - #5 x 14'-6" N.B.L.)  
(7 - #5 x 14'-6" S.B.L.)
- ④ 7 Rows #5 @ 1'-0" Max (In Top of Sidewalk)

**FLOOR PLAN**  
Scale: 3/32" = 1'-0"

- NOTES:**
- All reinforcing shall be epoxy-coated.
  - For reinforcing bar bending diagrams, see Sheet 60
  - The top reinforcing in the deck shall be securely tied down to the deck forms and/or beams to prevent lifting during concrete placement.
  - Suitable restraint shall be provided to prevent the rotation of the exterior beams from construction load such as finishing machine, forms, etc.
  - See sheet 58 for Section A-A.

Model: Sheet 4 8/17/2017 10:28:24 AM User: kharrison

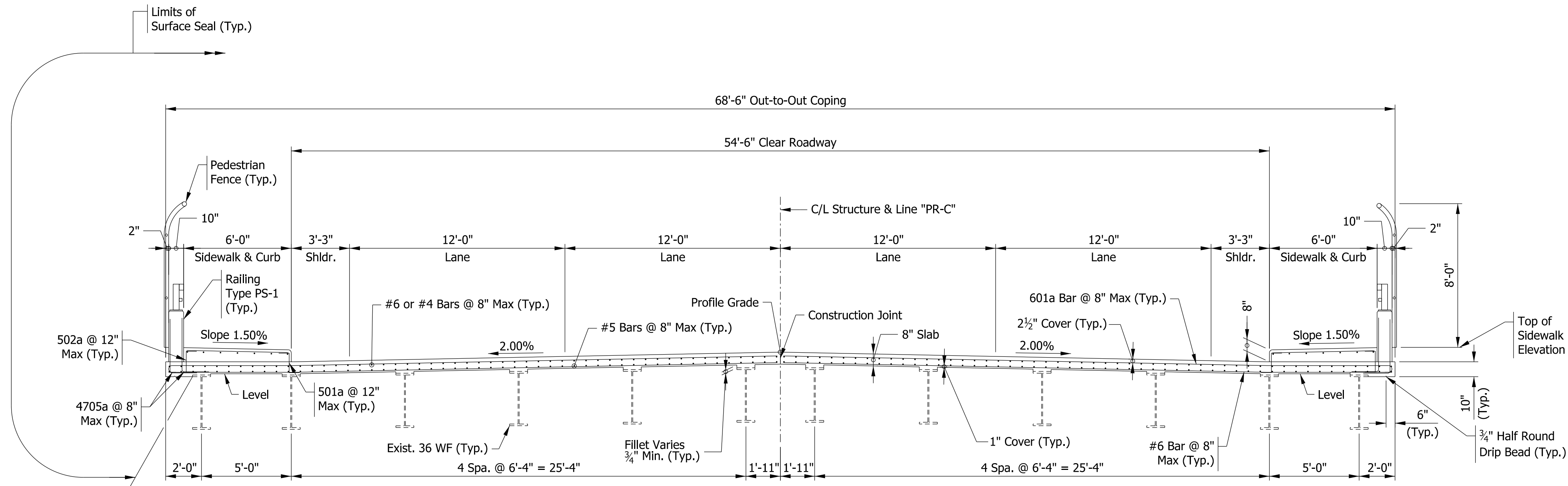


RECOMMENDED FOR APPROVAL	<i>Dan Mullaney</i>	8/16/2017
	DESIGN ENGINEER	DATE
DESIGNED:	KAB	DRAWN: BTS
CHECKED:	RKH	CHECKED: KAB

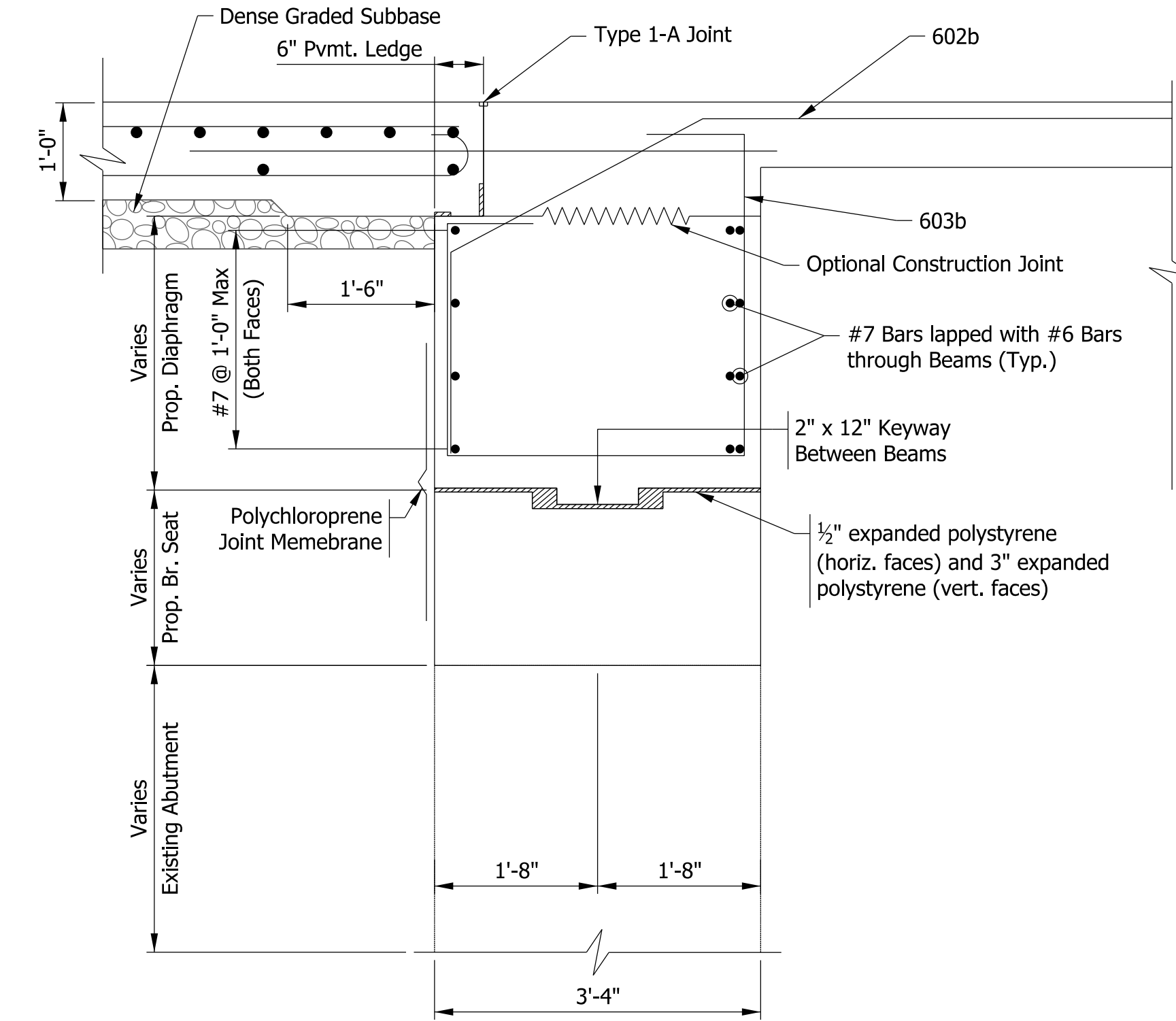
**INDIANA**  
**DEPARTMENT OF TRANSPORTATION**

**SUPERSTRUCTURE DETAILS**

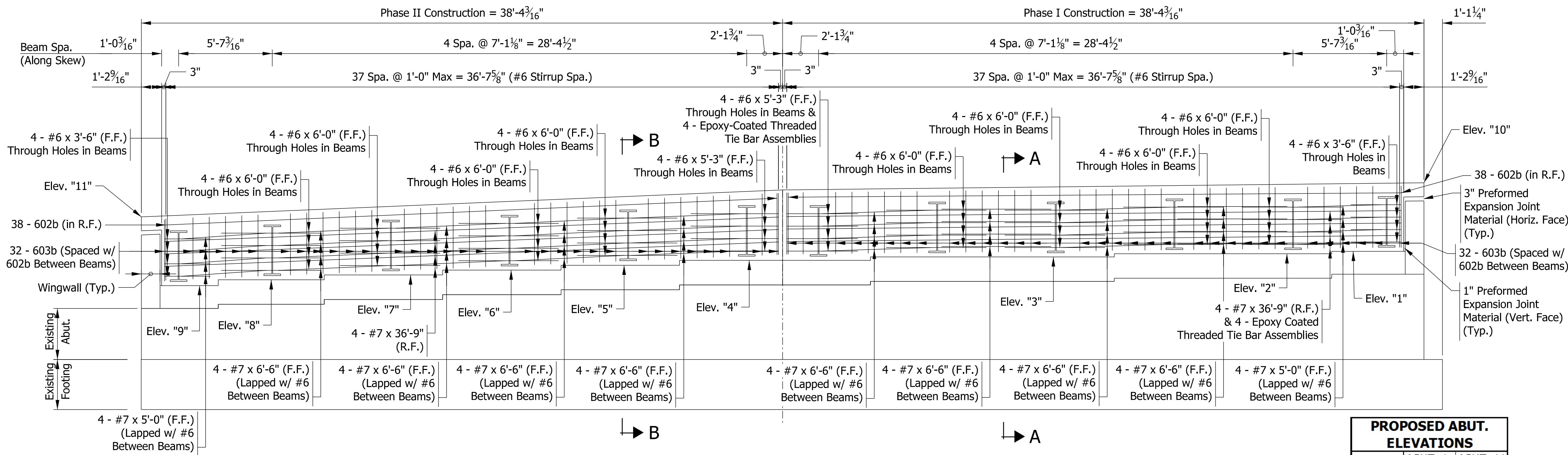
HORIZONTAL SCALE	BRIDGE FILE
A5 NOTED	41-45-02073B
VERTICAL SCALE	DESIGNATION
N/A	1172245
SURVEY BOOK	SHEETS
ELECTRONIC	57 of 86
CONTRACT	PROJECT
B-36676	1172245



TYPICAL SECTION - PROPOSED  
Scale: 1/4" = 1'-0"

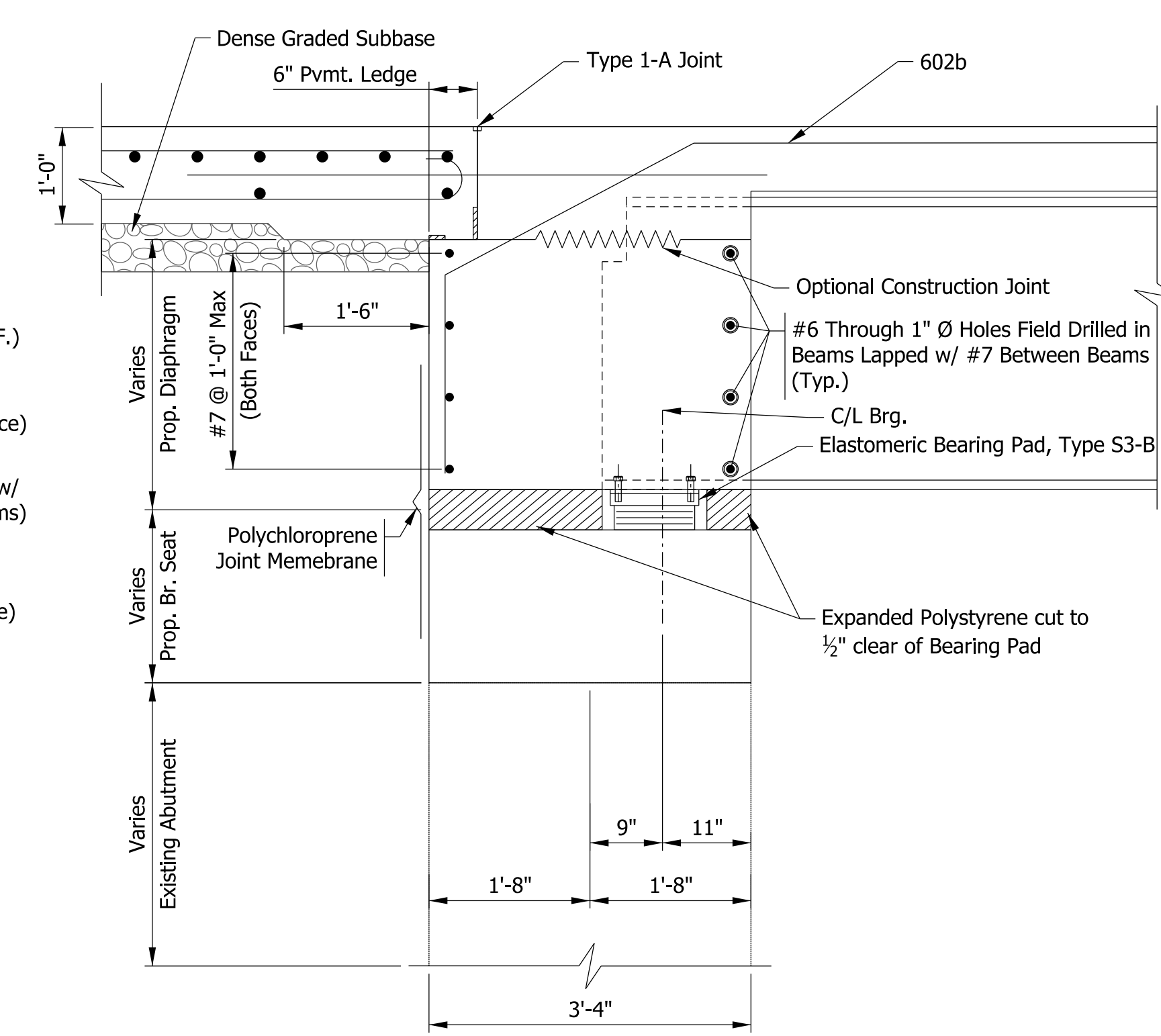


SECTION A-A - (BETWEEN BEAMS) ABUTMENT NO. 1 & 11  
Scale: 3/4" = 1'-0"



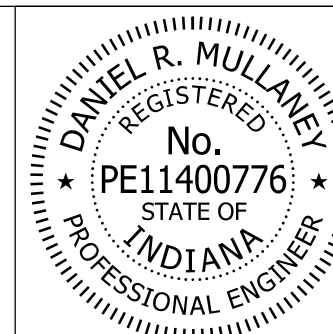
TYPICAL SECTION - ABUTMENT NO. 1 & 11  
Scale: 1/4" = 1'-0"

PROPOSED ABUT. ELEVATIONS		
	ABUT. 1	ABUT. 11
Elev. "1"	596.47	594.86
Elev. "2"	596.32	594.64
Elev. "3"	596.14	594.45
Elev. "4"	595.93	594.24
Elev. "5"	595.64	593.95
Elev. "6"	595.35	593.66
Elev. "7"	595.06	593.37
Elev. "8"	594.77	593.08
Elev. "9"	594.42	592.83
Elev. "10"	600.88	599.32
Elev. "11"	598.81	597.25



SECTION B-B - (THROUGH BEAM) ABUTMENT NO. 1 & 11  
Scale: 3/4" = 1'-0"

Model: Sheet 5  
8/17/2017 10:28:24 AM User: kharrison

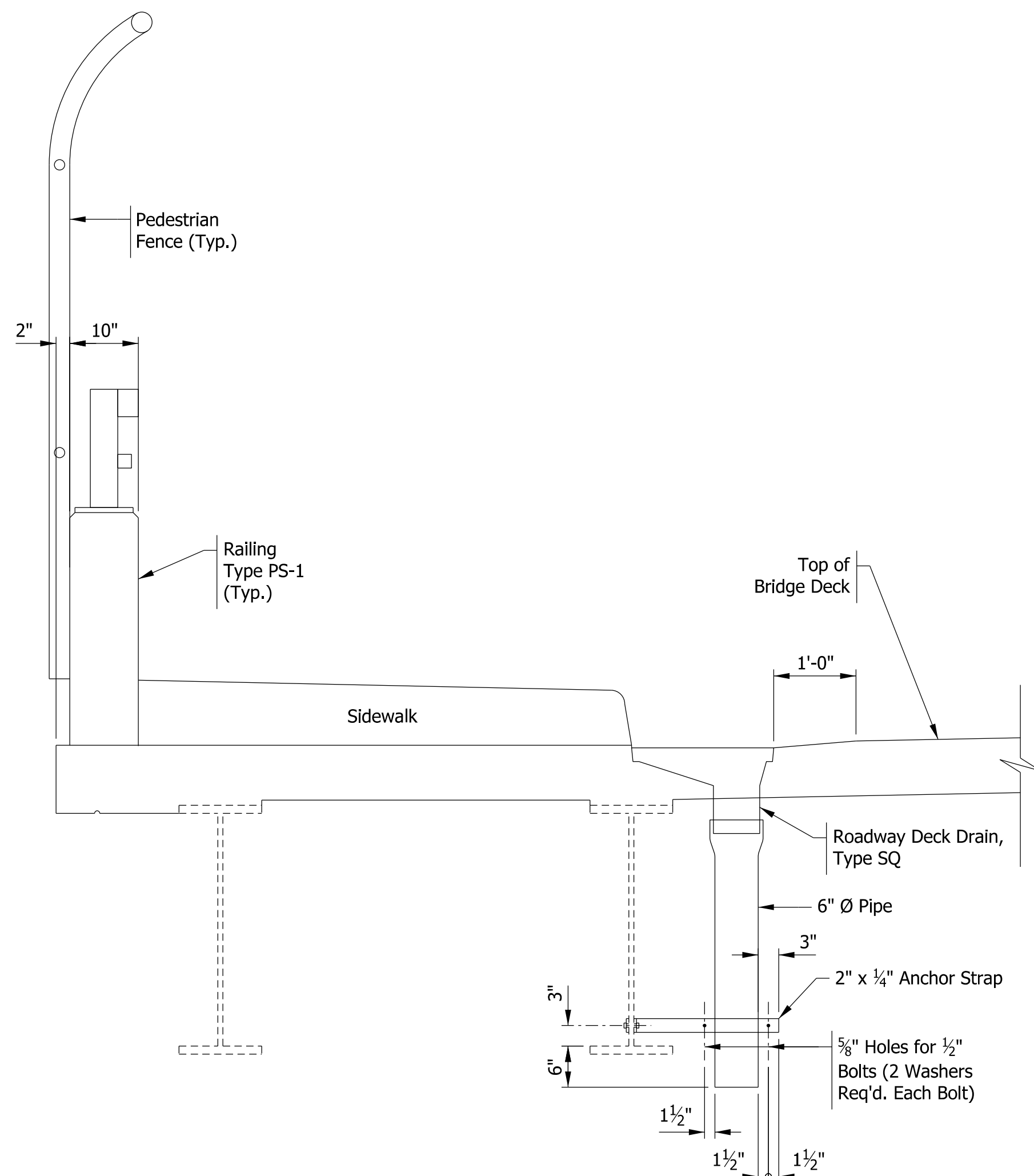


RECOMMENDED FOR APPROVAL: *Don Mullany* 8/16/2017  
DESIGN ENGINEER DATE  
DESIGNED: DRM DRAWN: BTS  
CHECKED: KAB CHECKED: KAB

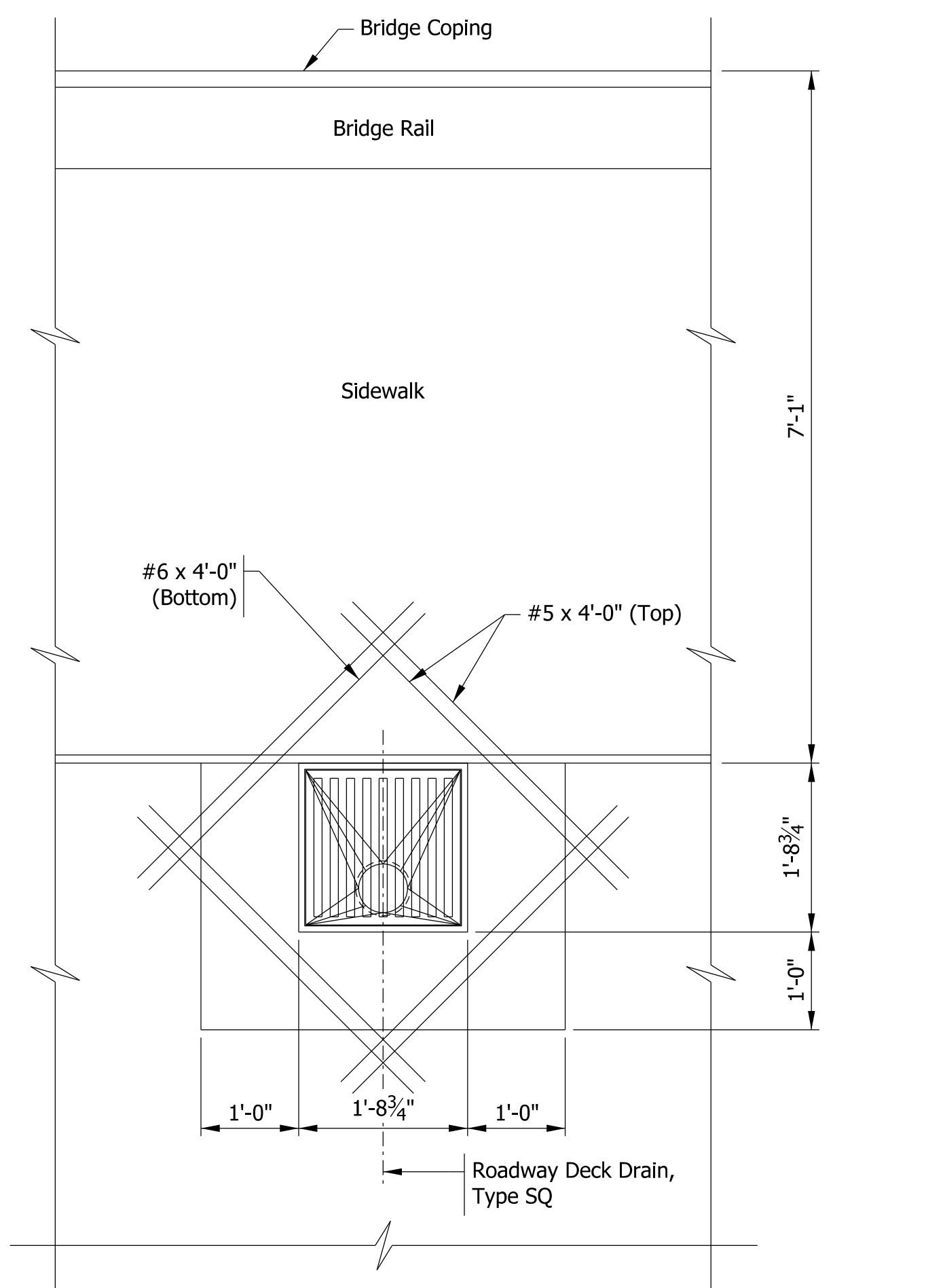
INDIANA  
DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE DETAILS

HORIZONTAL SCALE	BRIDGE FILE
AS NOTED	41-45-02073B
VERTICAL SCALE	DESIGNATION
AS NOTED	1172245
SURVEY BOOK	SHEETS
ELECTRONIC	58 of 86
CONTRACT	PROJECT
B-36676	1172245



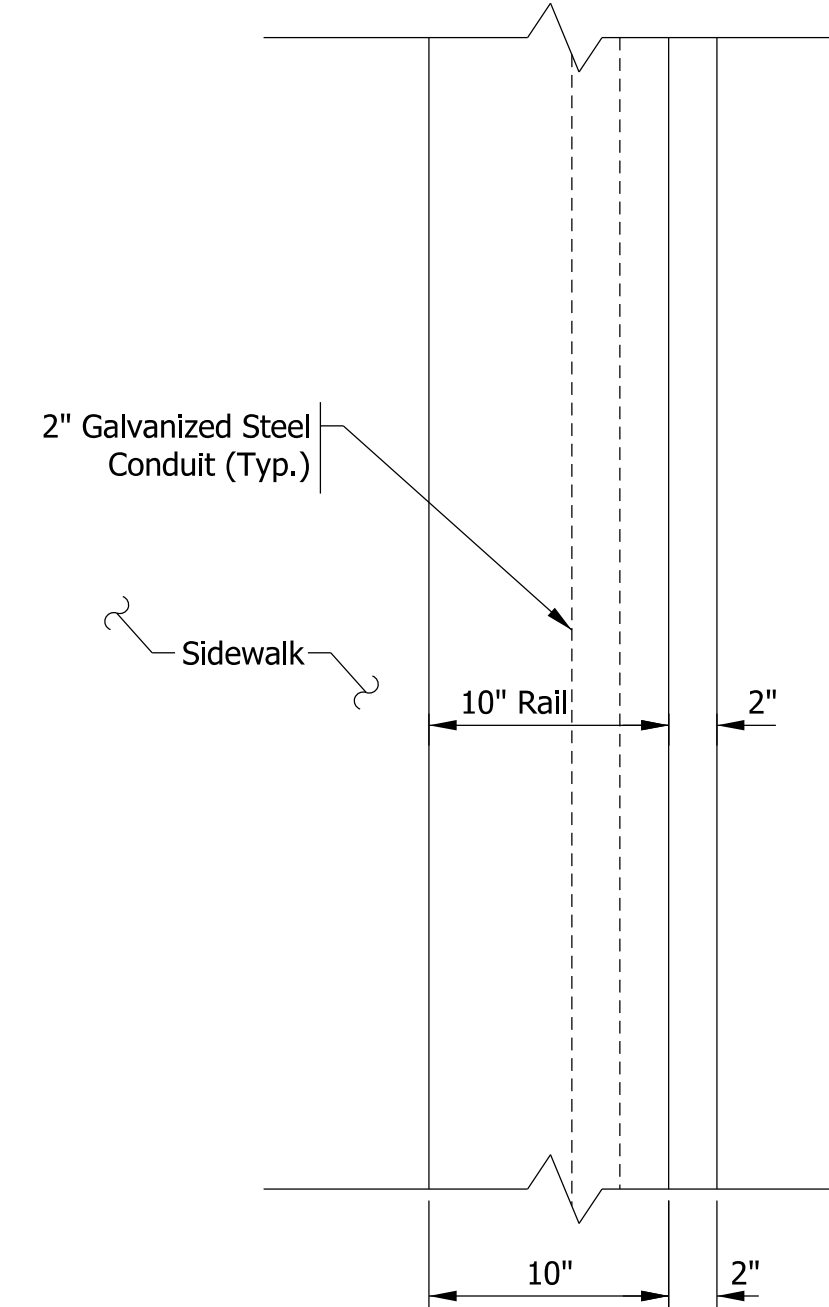
**SQ DRAIN ELEVATION**  
Scale: 3/4" = 1'-0"



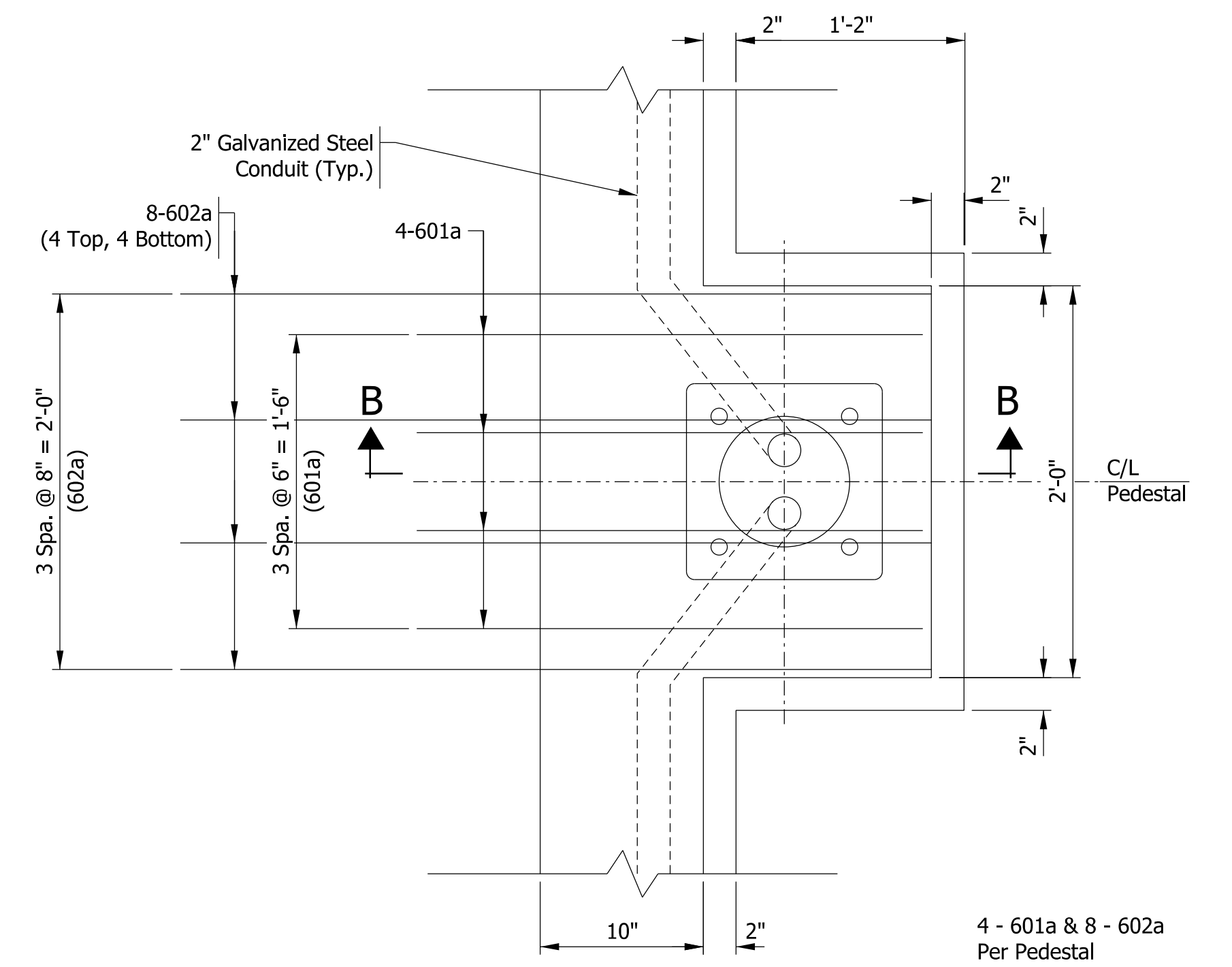
**SQ DRAIN PLAN**  
Scale: 3/4" = 1'-0"

8 - #5 x 4'-0" &  
4 - #6 x 4'-0"  
Per Drain

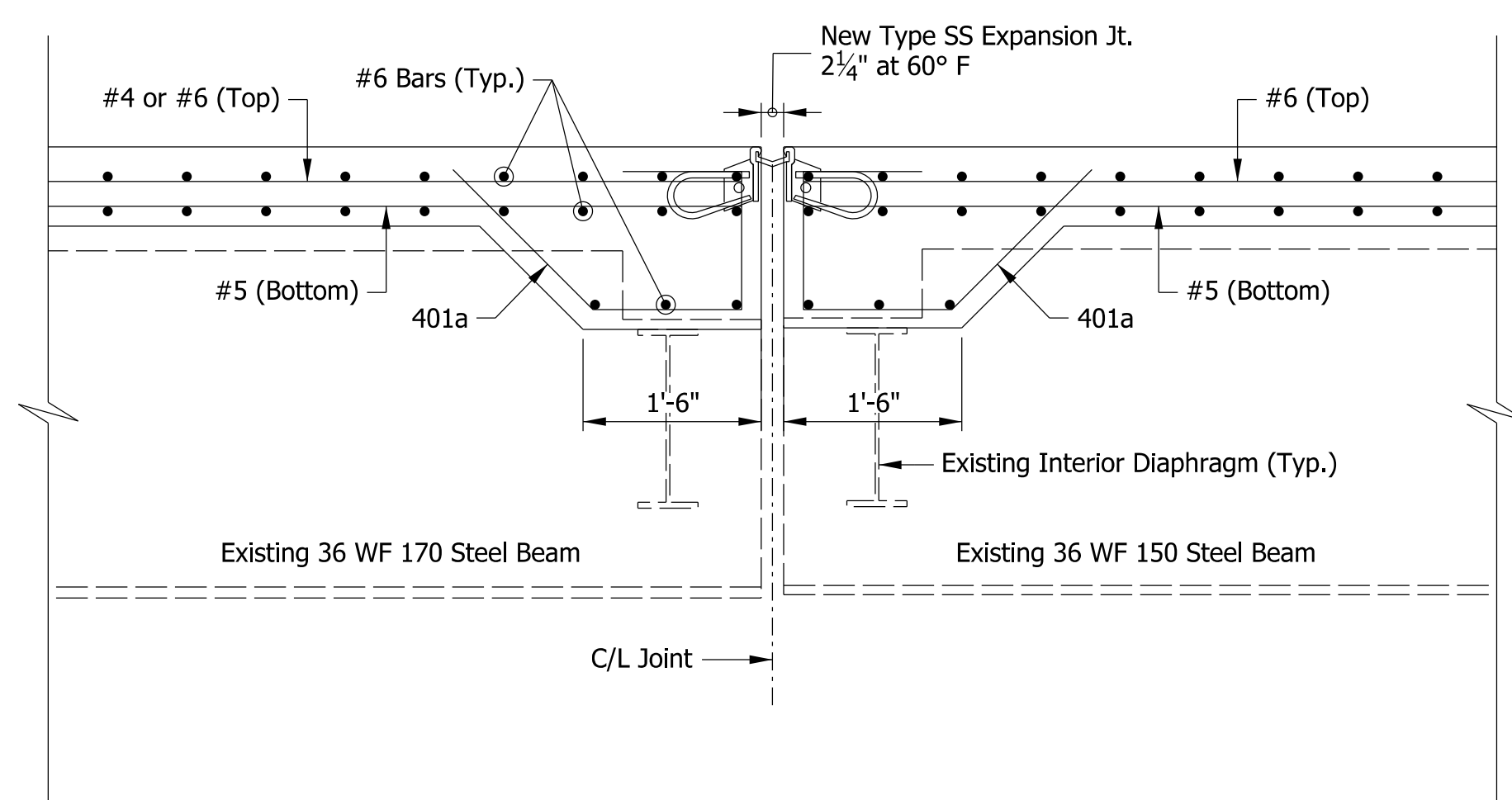
Note: Field cut deck reinforcing to maintain a 2" clearance



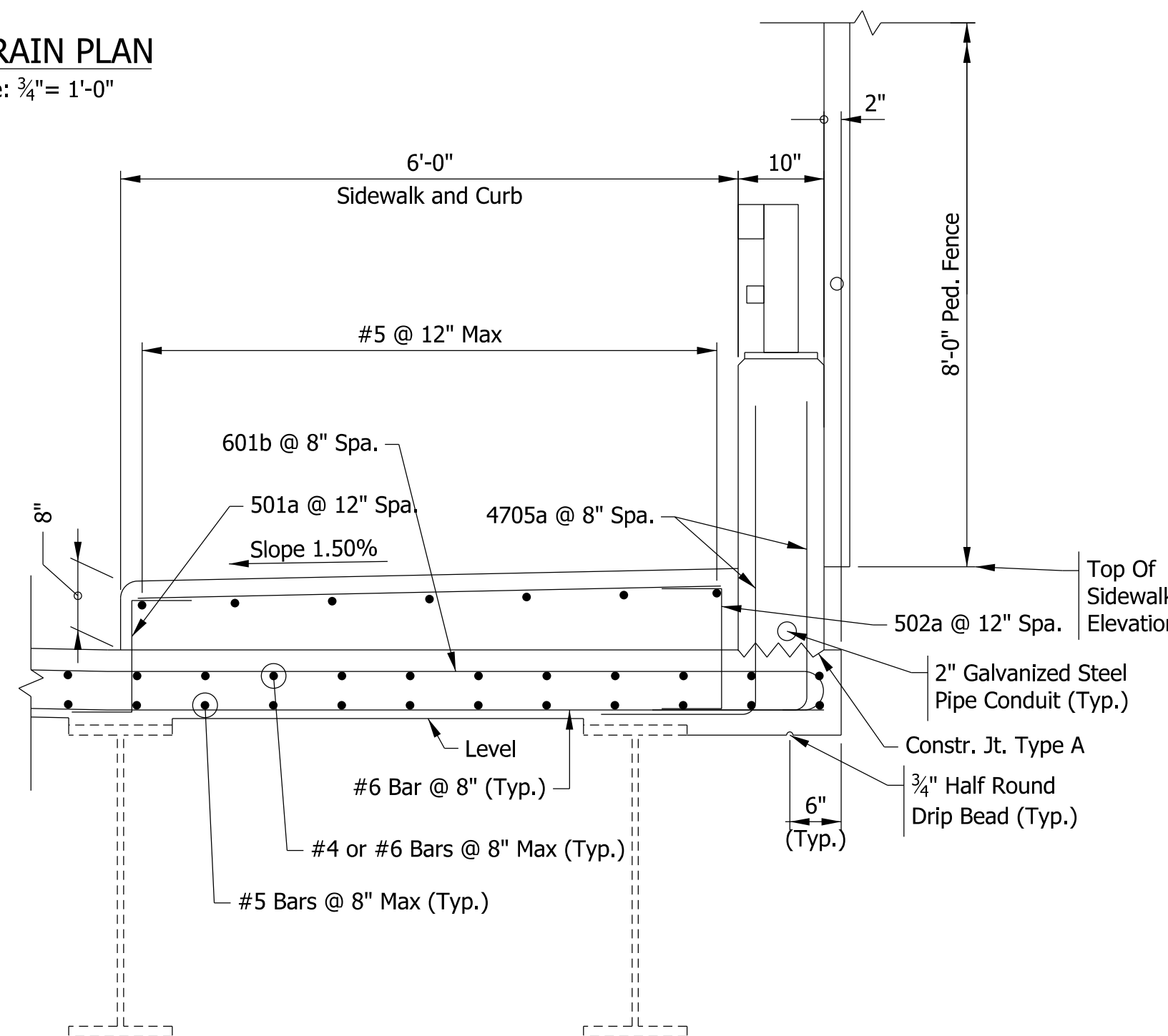
**RAILING PLAN**  
Scale: 1 1/2" = 1'-0"



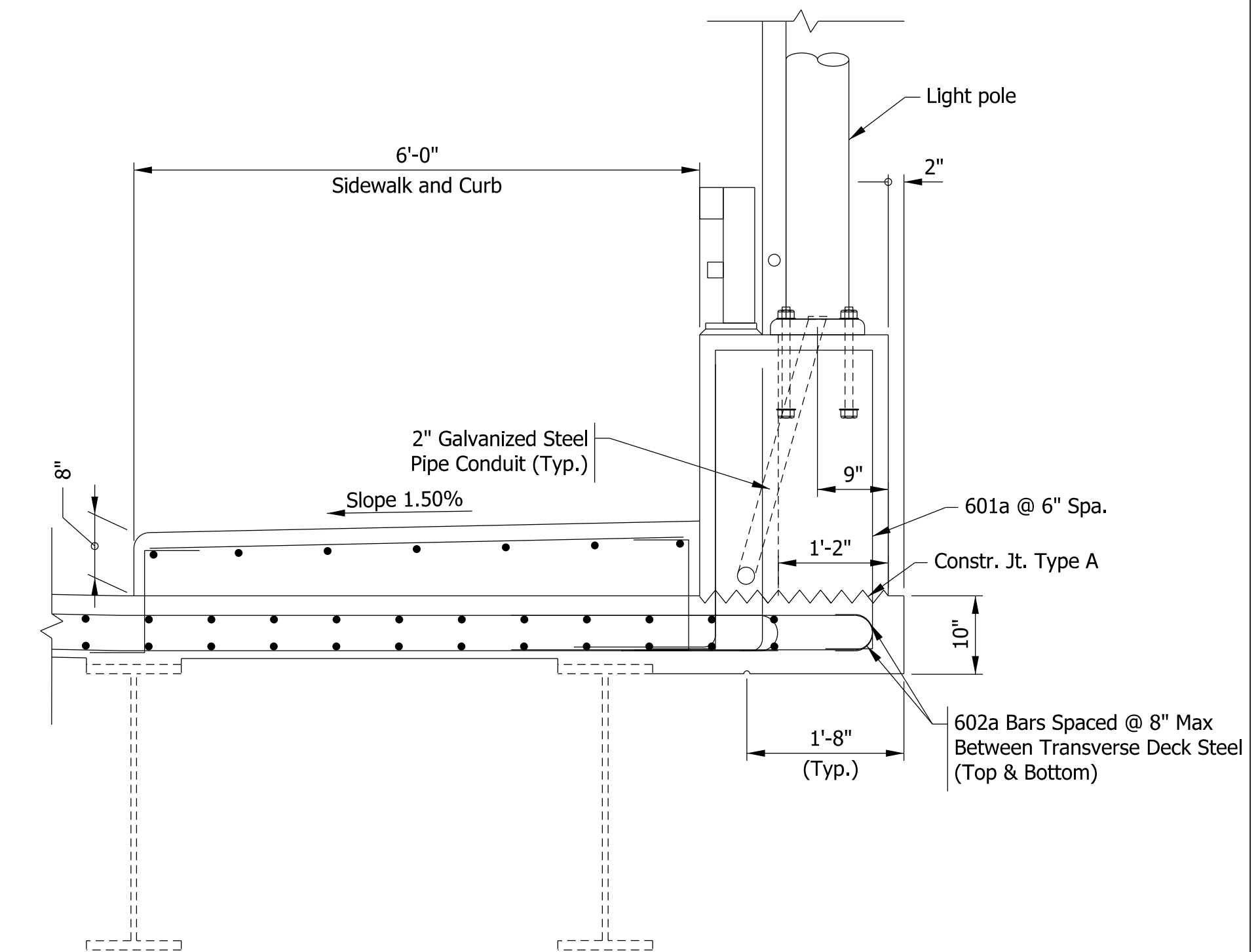
**PLAN @ LIGHT POLE**  
Scale: 1 1/2" = 1'-0"



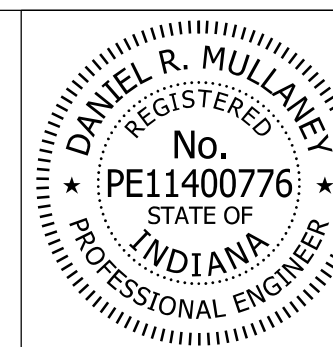
**EXPANSION JOINT**  
Scale: 3/4" = 1'-0"



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



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



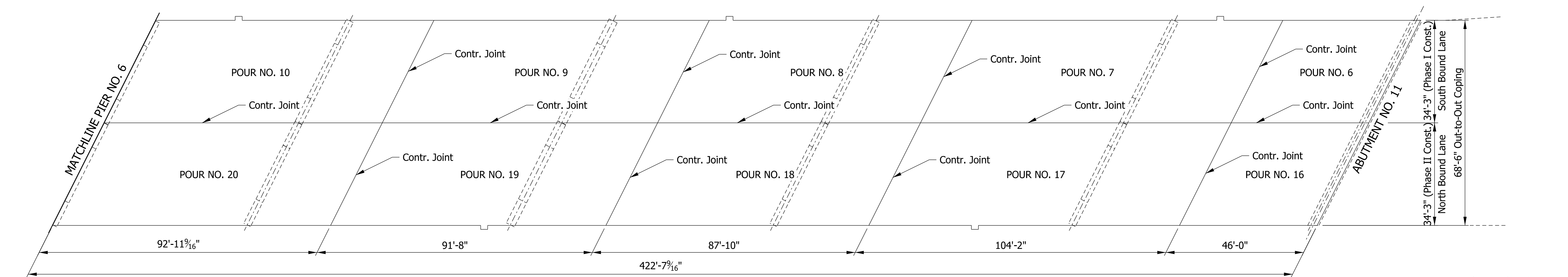
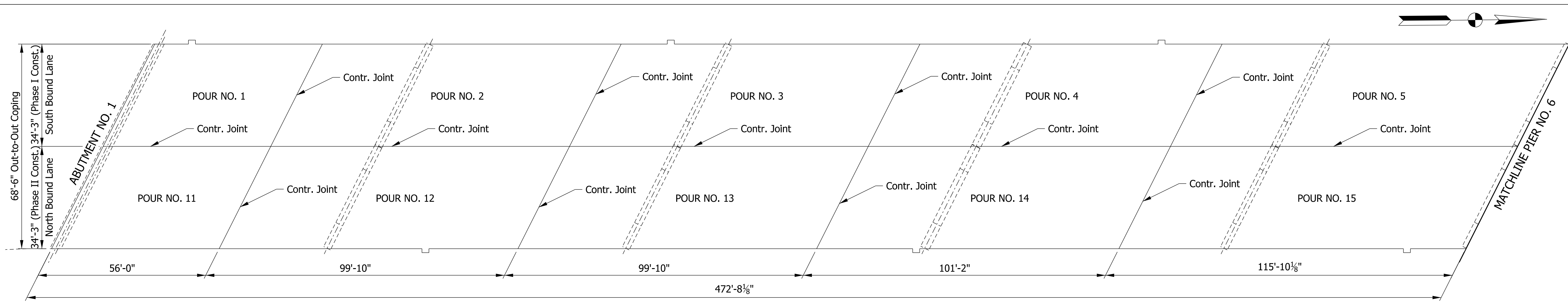
RECOMMENDED FOR APPROVAL: *Don Mullany* 8/16/2017  
DESIGN ENGINEER DATE

DESIGNED: KAB DRAWN: BTS  
CHECKED: RKH CHECKED: KAB

INDIANA  
DEPARTMENT OF TRANSPORTATION

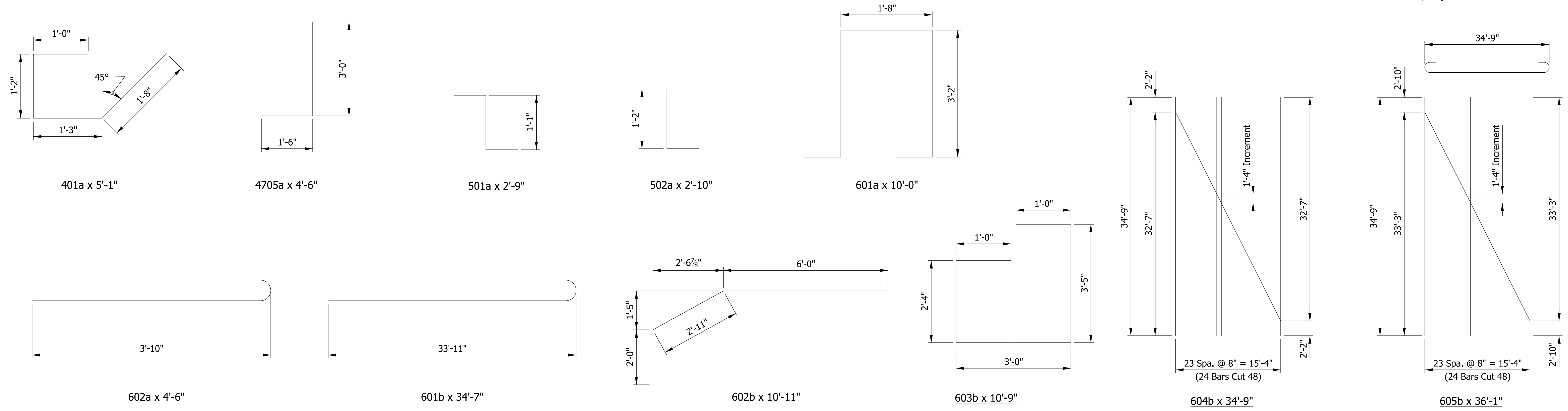
**SUPERSTRUCTURE DETAILS**

HORIZONTAL SCALE	BRIDGE FILE
AS NOTED	41-45-02073B
VERTICAL SCALE	DESIGNATION
AS NOTED	1172245
SURVEY BOOK	SHEETS
ELECTRONIC	59 of 86
CONTRACT	PROJECT
B-36676	1172245



**POUR SEQUENCE DIAGRAM**  
Scale: 1" = 20'

**POUR NOTES:**  
1. Pour numbers indicate sequence of pours.  
2. Pours at Abutments No. 1 & 11 shall include the abutment diaphragms.



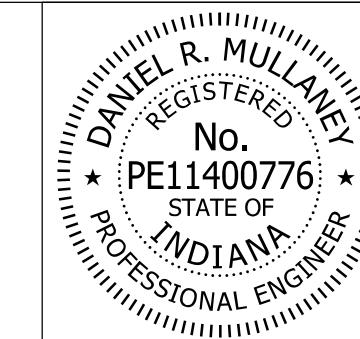
**BAR BENDING DETAILS**  
Not to Scale

CONCRETE POUR SEQUENCING SUMMARY	
Pour 1	71.1 Cys
Pour 2	92.6 Cys
Pour 3	92.8 Cys
Pour 4	94.0 Cys
Pour 5	109.8 Cys
Pour 6	61.6 Cys
Pour 7	96.8 Cys
Pour 8	81.7 Cys
Pour 9	85.0 Cys
Pour 10	88.8 Cys
Pour 11	70.8 Cys
Pour 12	92.8 Cys
Pour 13	92.6 Cys
Pour 14	94.3 Cys
Pour 15	110.0 Cys
Pour 16	61.6 Cys
Pour 17	96.8 Cys
Pour 18	81.4 Cys
Pour 19	85.2 Cys
Pour 20	88.6 Cys

BILL OF MATERIALS SUPERSTRUCTURE			
EPOXY COATED REINFORCING STEEL			
Size or Mark	Number of Bars	Length (ft)	Weight (Lb)
#7	16	36'-9"	
#7	64	6'-6"	
#7	16	5'-0"	
<b>Total #7</b>			<b>2,216</b>
601a	44	10'-0"	
602a	88	4'-6"	
601b	2586	34'-7"	
602b	152	10'-11"	
603b	128	10'-9"	
604b	96	34'-9"	
605b	96	36'-1"	
#6	16	37'-9"	
#6	2586	33'-9"	
#6	208	29'-3"	
#6	208	29'-0"	
#6	208	28'-3"	
#6	208	28'-0"	
#6	416	27'-9"	
#6	208	24'-6"	
#6	208	23'-9"	
#6	64	6'-0"	
#6	16	5'-3"	
#6	16	3'-6"	
#6	144	4'-0"	
<b>Total #6</b>			<b>351,326</b>
501a	1796	2'-9"	
502a	1796	2'-10"	
#5	2714	40'-0"	
#5	118	27'-6"	
#5	118	14'-6"	
#5	1796	5'-6"	
#5	288	4'-0"	
<b>Total #5</b>			<b>140,361</b>
4705a	5372	4'-6"	
401a	132	5'-1"	
#4	208	36'-3"	
#4	208	30'-9"	
#4	208	30'-6"	
#4	208	29'-0"	
#4	208	28'-9"	
#4	208	28'-3"	
#4	416	27'-0"	
#4	208	24'-3"	
#4	208	23'-3"	
<b>Total #4</b>			<b>56,196</b>
<b>TOTAL EPOXY COATED</b>			<b>550,099</b>
CONCRETE			
Concrete, C, Superstructure (Pour Nos. 1 - 20) (Cys)			1,748
Concrete, C, Superstructure (Sidewalk Locations) (Cys)			290
<b>Total Concrete, C, Superstructure (Cys)</b>			<b>2,038</b>
MISCELLANEOUS			
#5 x 6'-0" Epoxy Coated Threaded Tie Bar Assembly (Each)			72
Epoxy Coated Threaded Tie Bar Assembly (Each)			5,188
Surface Seal (65,230 SFT)			1 LSUM
Grates, Basins, and Fittings, Cast Iron (Each)			36
1" Ø Drilled Holes in Beams (Each)			96
Patching Concrete Structures (Sft)			500
Stud Shear Connectors (Each)			17,388
Expansion Joint, Type SS (Lft)			77

**NOTES:**  
1. All reinforcing shall be epoxy-coated.  
2. For Reinforcing Bar Notes, see Std. Drawing E-703-BRST-01.

Model: Sheet 7 8/17/2017 10:28:26 AM User: kharrison



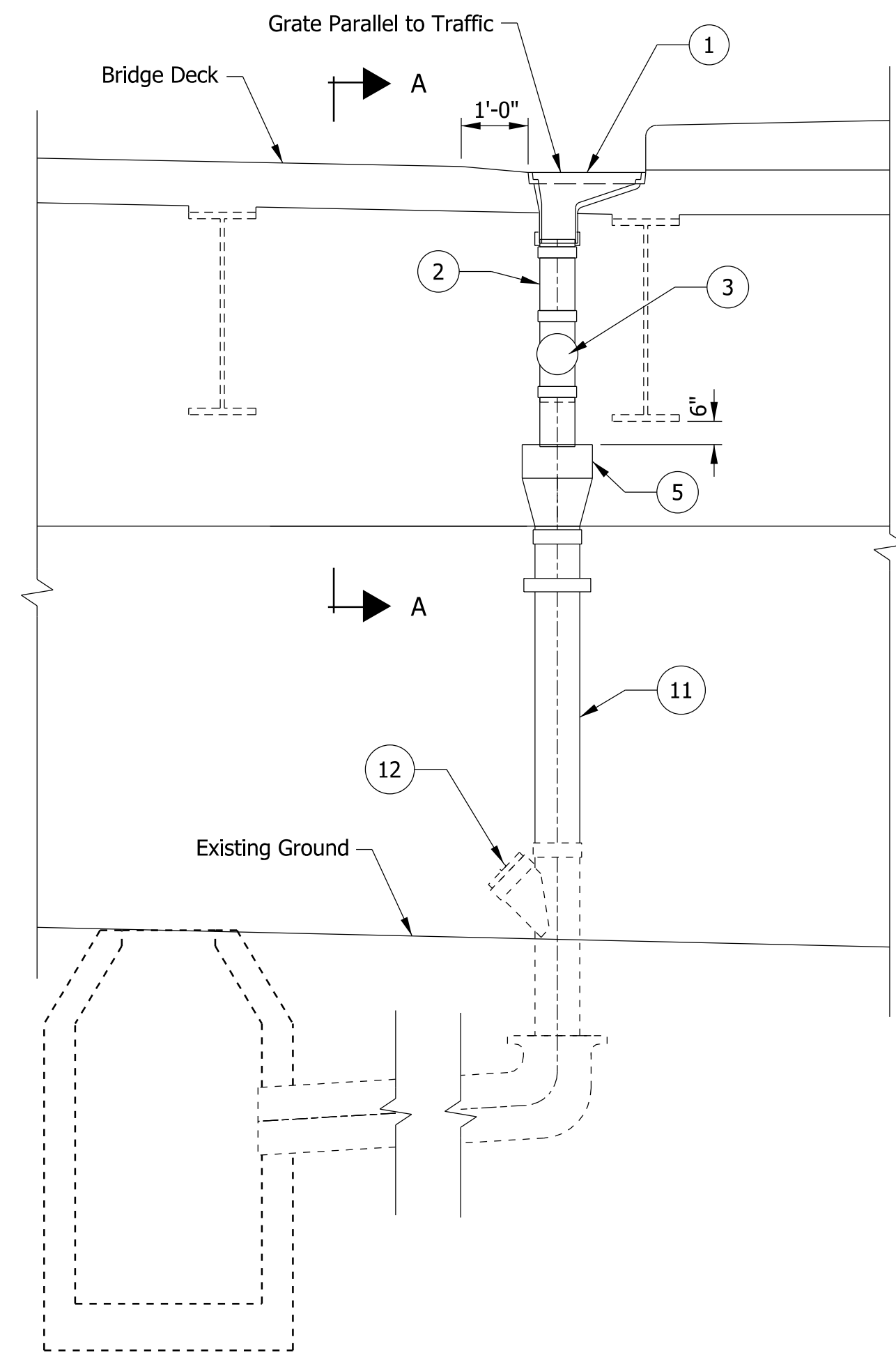
RECOMMENDED FOR APPROVAL: *Dan Mullane* 8/16/2017  
DESIGN ENGINEER DATE

DESIGNED: KCH DRAWN: BTS  
CHECKED: KAB CHECKED: KAB

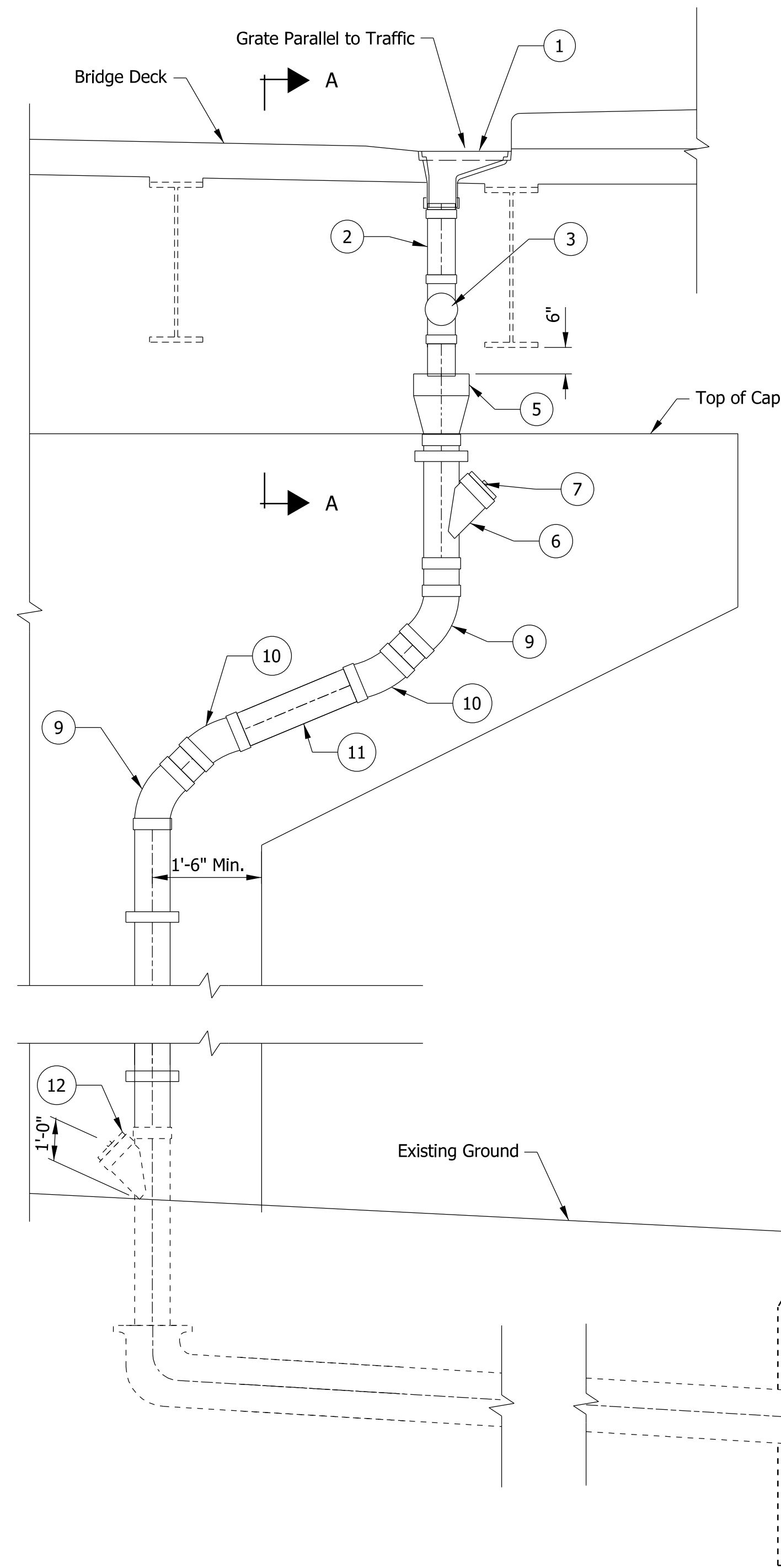
INDIANA DEPARTMENT OF TRANSPORTATION

**SUPERSTRUCTURE DETAILS**

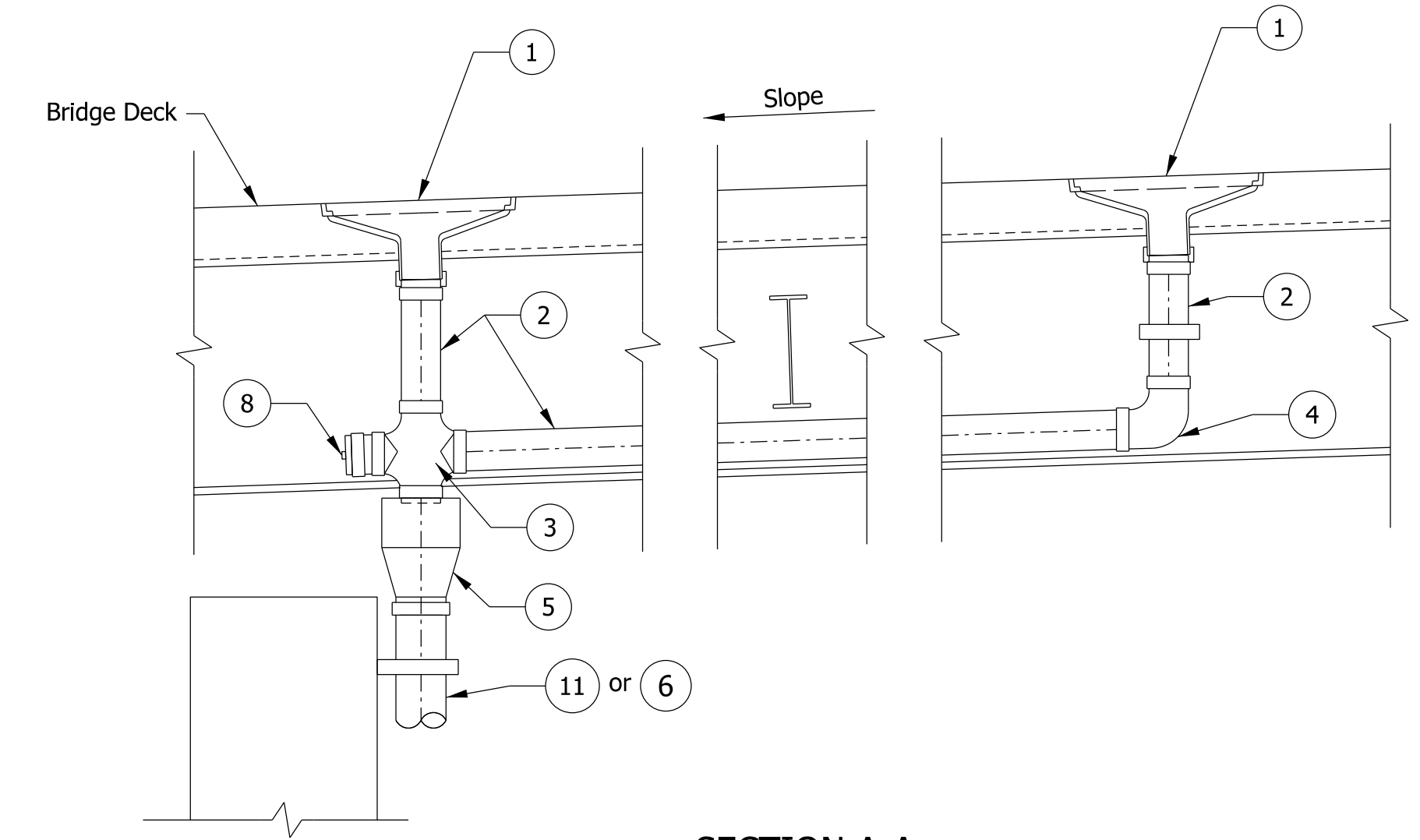
HORIZONTAL SCALE	BRIDGE FILE
AS NOTED	41-45-02073B
VERTICAL SCALE	DESIGNATION
AS NOTED	1172245
SURVEY BOOK	SHEETS
ELECTRONIC	60 of 86
CONTRACT	PROJECT
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TYPICAL BRIDGE DECK DRAIN AT ABUTMENTS  
Scale: 1/2" = 1'-0"



TYPICAL BRIDGE DECK DRAIN AT PIERS  
Scale: 1/2" = 1'-0"

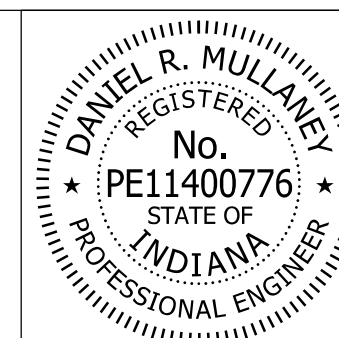


SECTION A-A  
Scale: 1/2" = 1'-0"

LEGEND

- ① Deck Drain, Type SQ
- ② 6" Ø Pipe, Type Reinf. Thermosetting Resin
- ③ 6" Cross, Type Reinf. Thermosetting Resin
- ④ 6" Elbow - 90°, Type Reinf. Thermosetting Resin
- ⑤ 12" x 8" Reducer, Type Reinf. Thermosetting Resin
- ⑥ 8" Wye, Type Reinf. Thermosetting Resin
- ⑦ 8" End Cap, Type Reinf. Thermosetting Resin
- ⑧ 6" End Cap, Type Reinf. Thermosetting Resin
- ⑨ 8" Elbow - 45°, Type Reinf. Thermosetting Resin
- ⑩ 8" Elbow - 22.5°, Type Reinf. Thermosetting Resin
- ⑪ 8" Ø Pipe, Type Reinf. Thermosetting Resin
- ⑫ Existing Steel Cleanout

Model: Deck Drain Details  
8/17/2017 10:28:28 AM User: kharrison

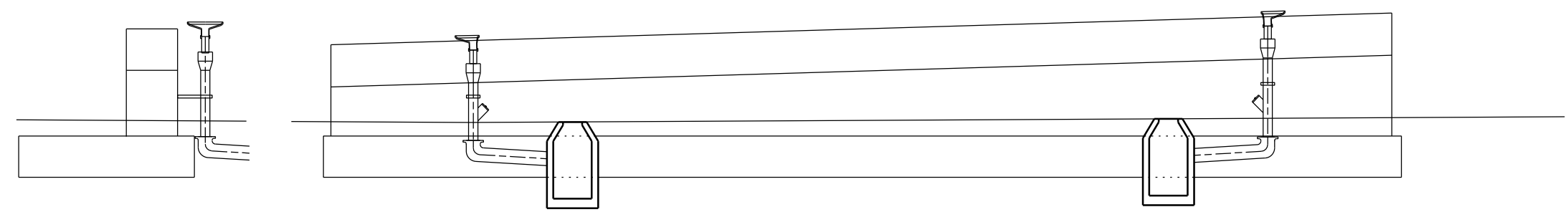


RECOMMENDED FOR APPROVAL	<i>Don Mullamey</i>	8/16/2017
	DESIGN ENGINEER	DATE
DESIGNED: KCH	DRAWN: BTS	
CHECKED: RKH	CHECKED: RKH	

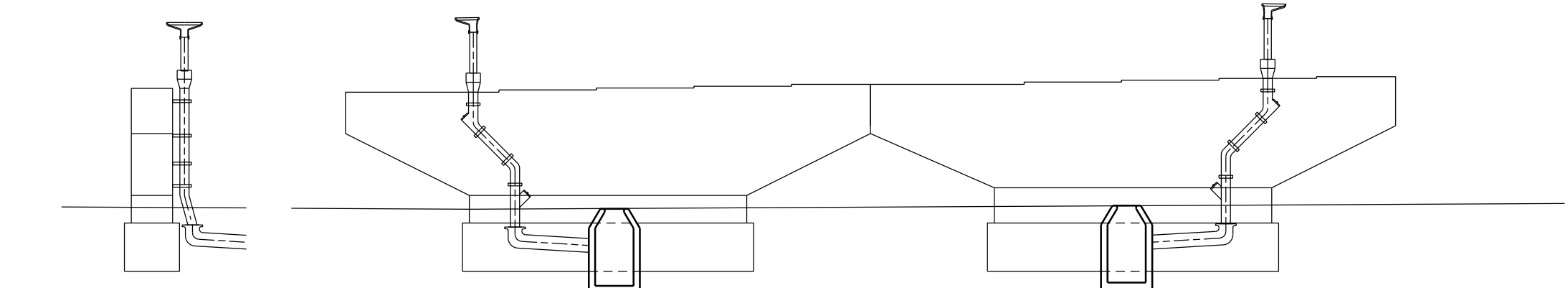
INDIANA  
DEPARTMENT OF TRANSPORTATION

DECK DRAIN DETAILS

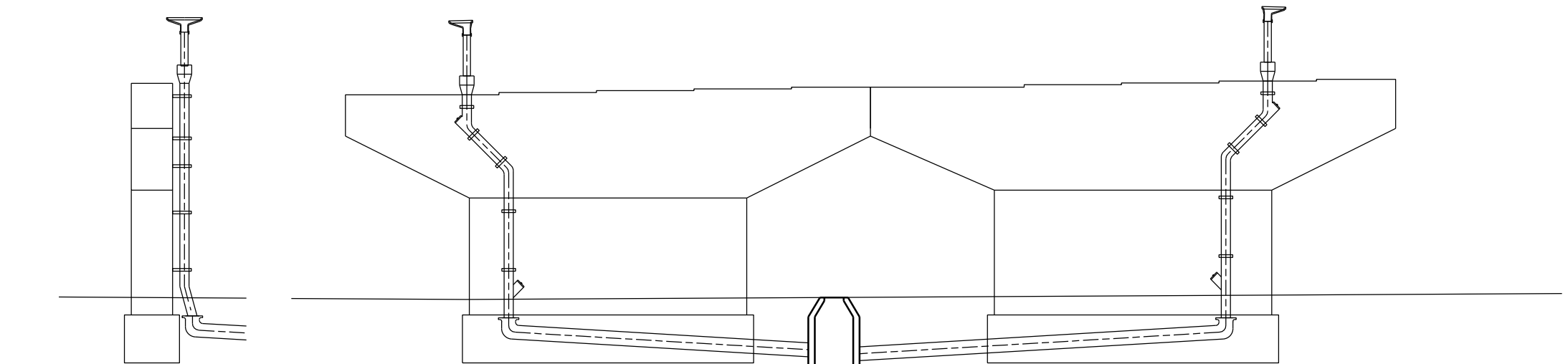
HORIZONTAL SCALE	BRIDGE FILE
AS NOTED	41-45-02073B
VERTICAL SCALE	DESIGNATION
AS NOTED	1172245
SURVEY BOOK	SHEETS
ELECTRONIC	61 of 86
CONTRACT	PROJECT
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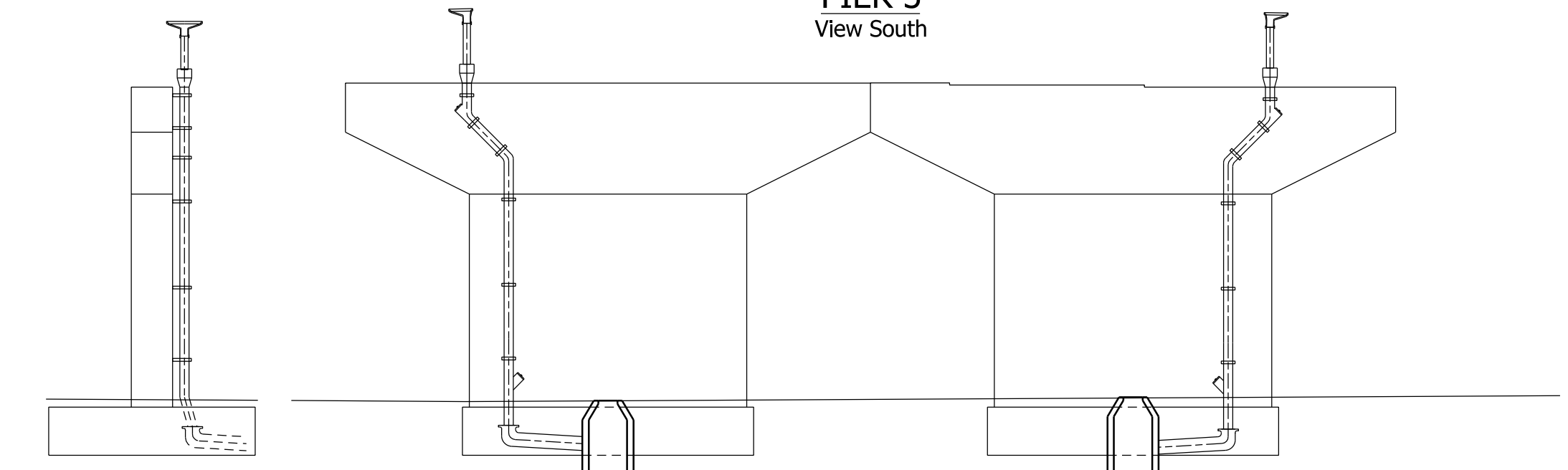
**ABUTMENT NO. 1**  
View South



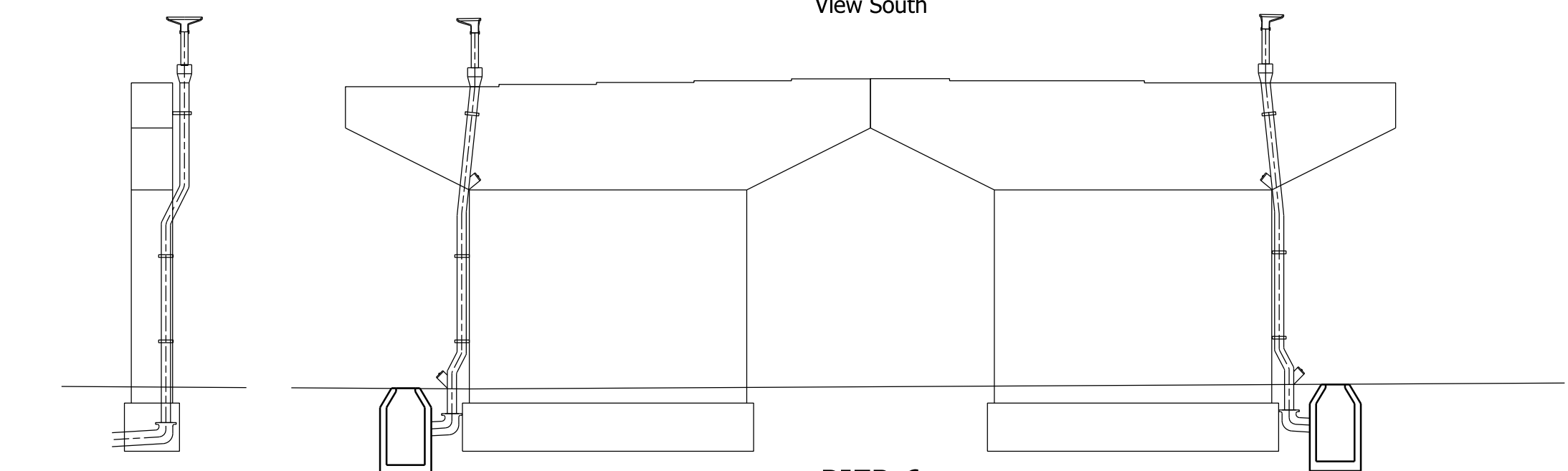
**PIER 2**  
View South



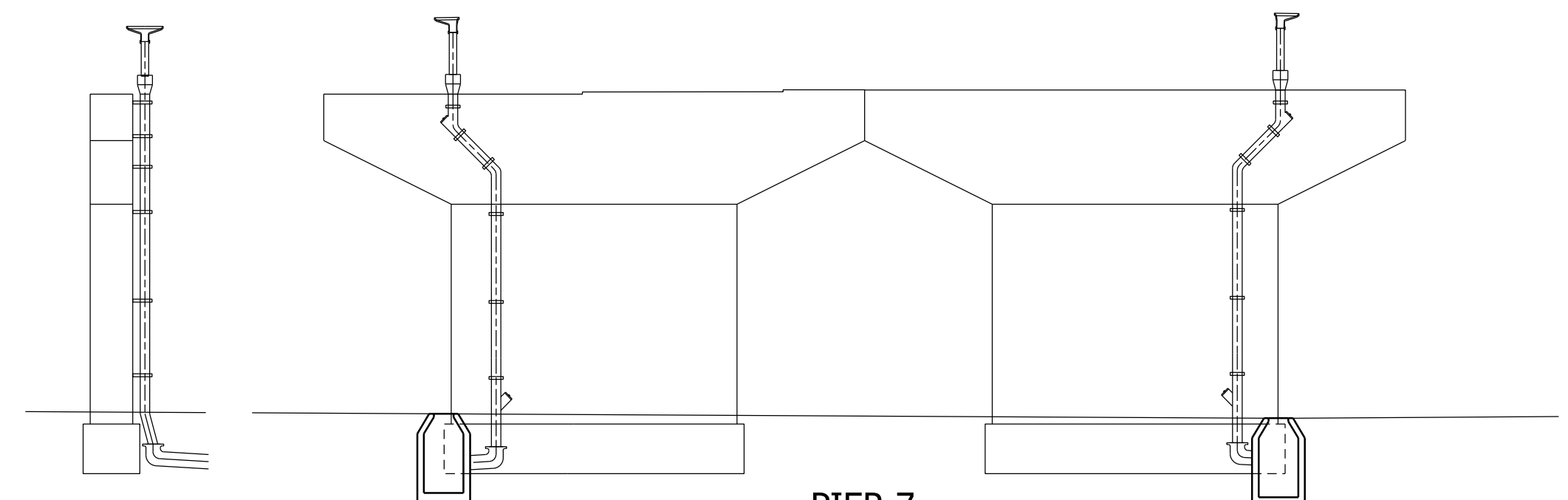
**PIER 3**  
View South



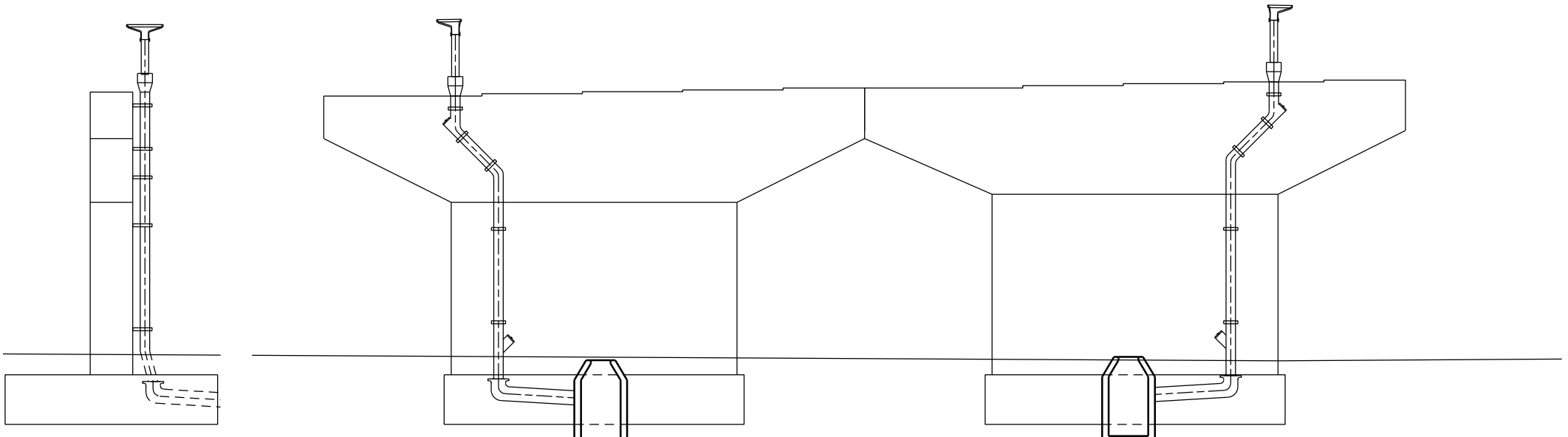
**PIER 4**  
View South



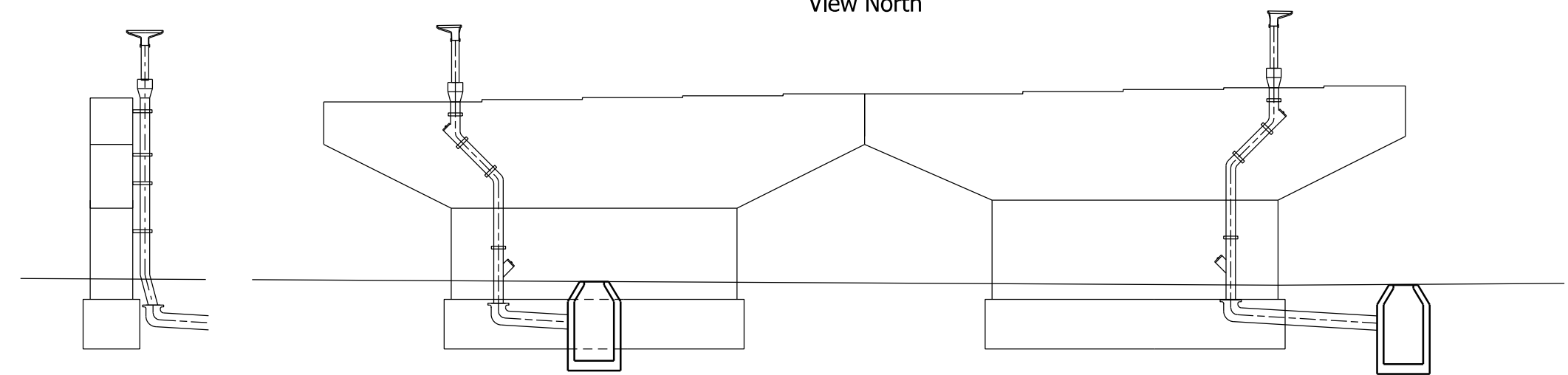
**PIER 6**  
View North



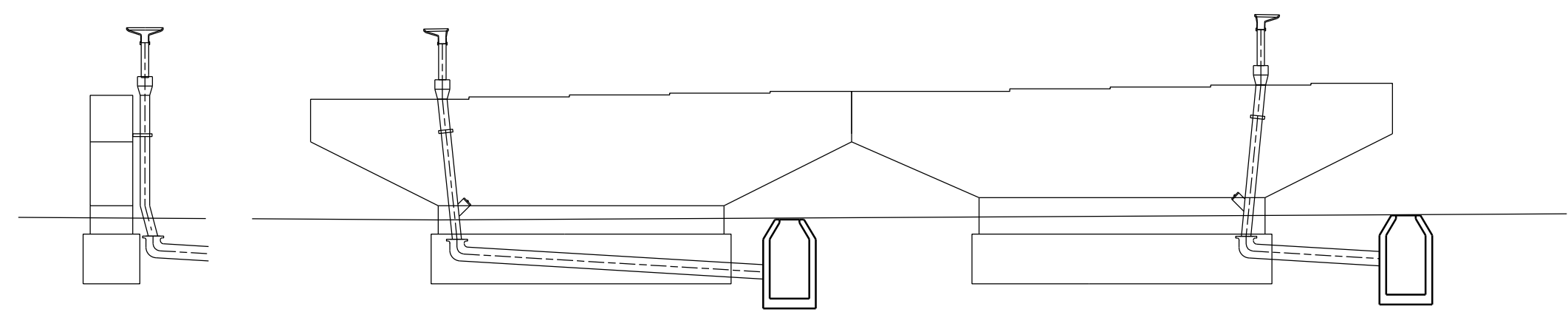
**PIER 7**  
View North



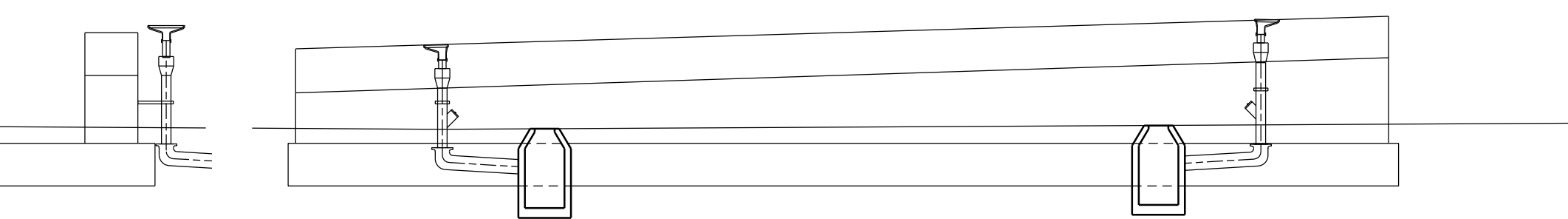
**PIER 8**  
View North



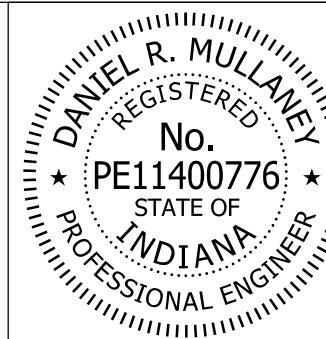
**PIER 9**  
View North



**PIER 10**  
View North



**ABUTMENT NO. 11**  
View North



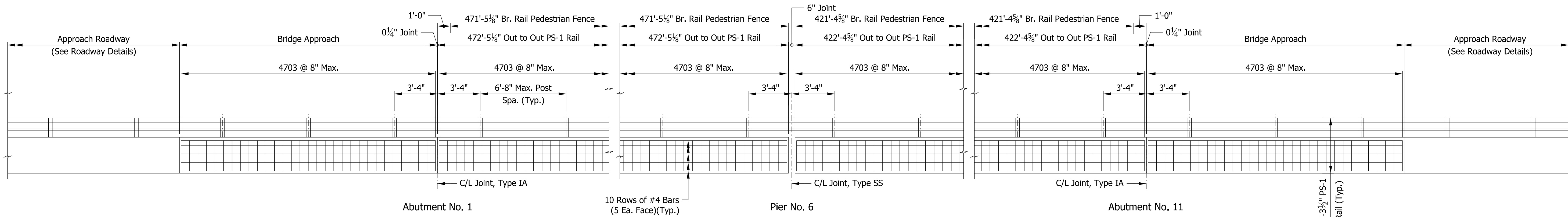
RECOMMENDED FOR APPROVAL *Don Mullane* 8/16/2017  
DESIGN ENGINEER DATE

DESIGNED: KCH DRAWN: BTS  
CHECKED: RKH CHECKED: RKH

INDIANA  
DEPARTMENT OF TRANSPORTATION

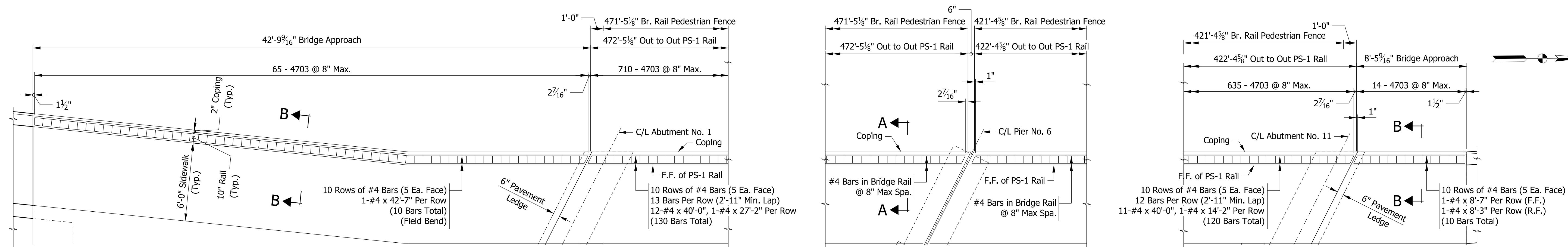
**DECK DRAIN SECTIONS**

HORIZONTAL SCALE	BRIDGE FILE
1" = 10'	41-45-02073B
VERTICAL SCALE	DESIGNATION
1" = 10'	1172245
SURVEY BOOK	SHEETS
ELECTRONIC	62 of 86
CONTRACT	PROJECT
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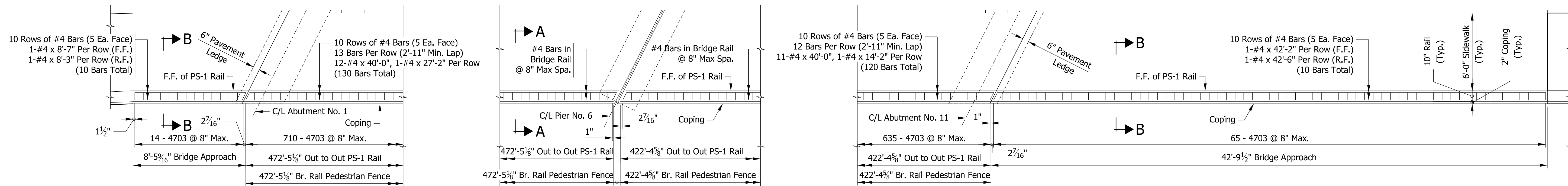
**BRIDGE RAIL ELEVATION**

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



**BRIDGE RAIL PLAN - WEST COPING**

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



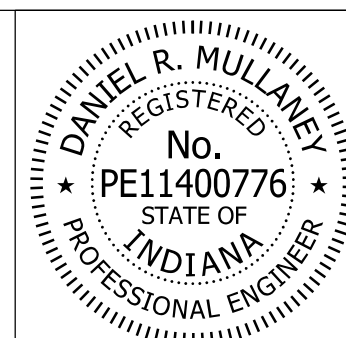
**BRIDGE RAIL PLAN - EAST COPING**

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

**NOTES**

- 1) PS-1 rail posts to be spaced to avoid conflict with light base plate. PS-1 rail should not exceed 6'-8" between rail posts.
- 2) Bridge Rail Pedestrian Fence not shown for clarity. See Sheet 65 for details.
- 3) See Std. Dwg. E 706-BRPP-03, 05, and 06 for additional PS-1 Railing details.
- 4) For Section "A-A" and "B-B", see Sheet No. 64.

Model: Sheet 1  
8/17/2017 10:28:29 AM User: kharrison

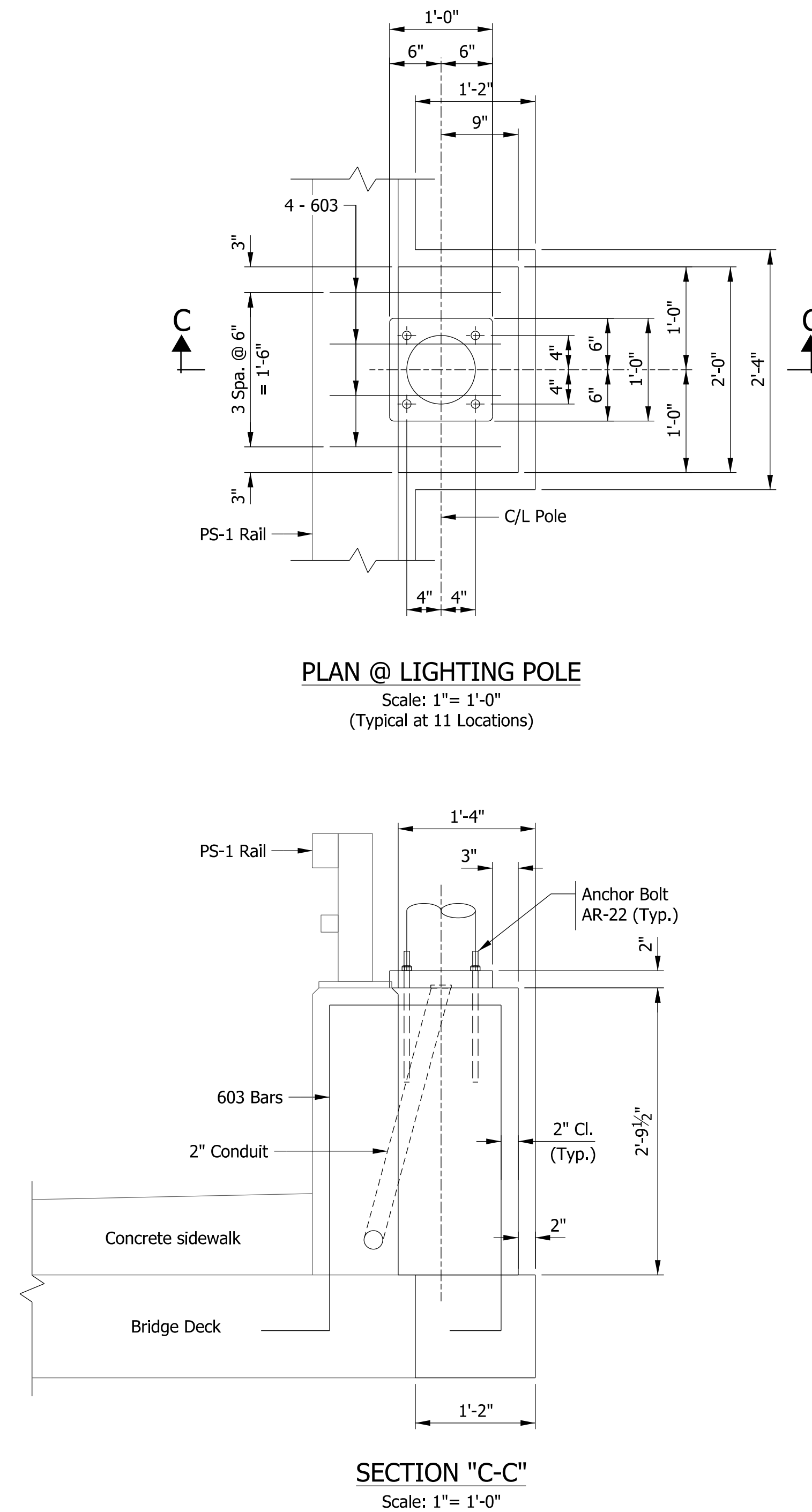
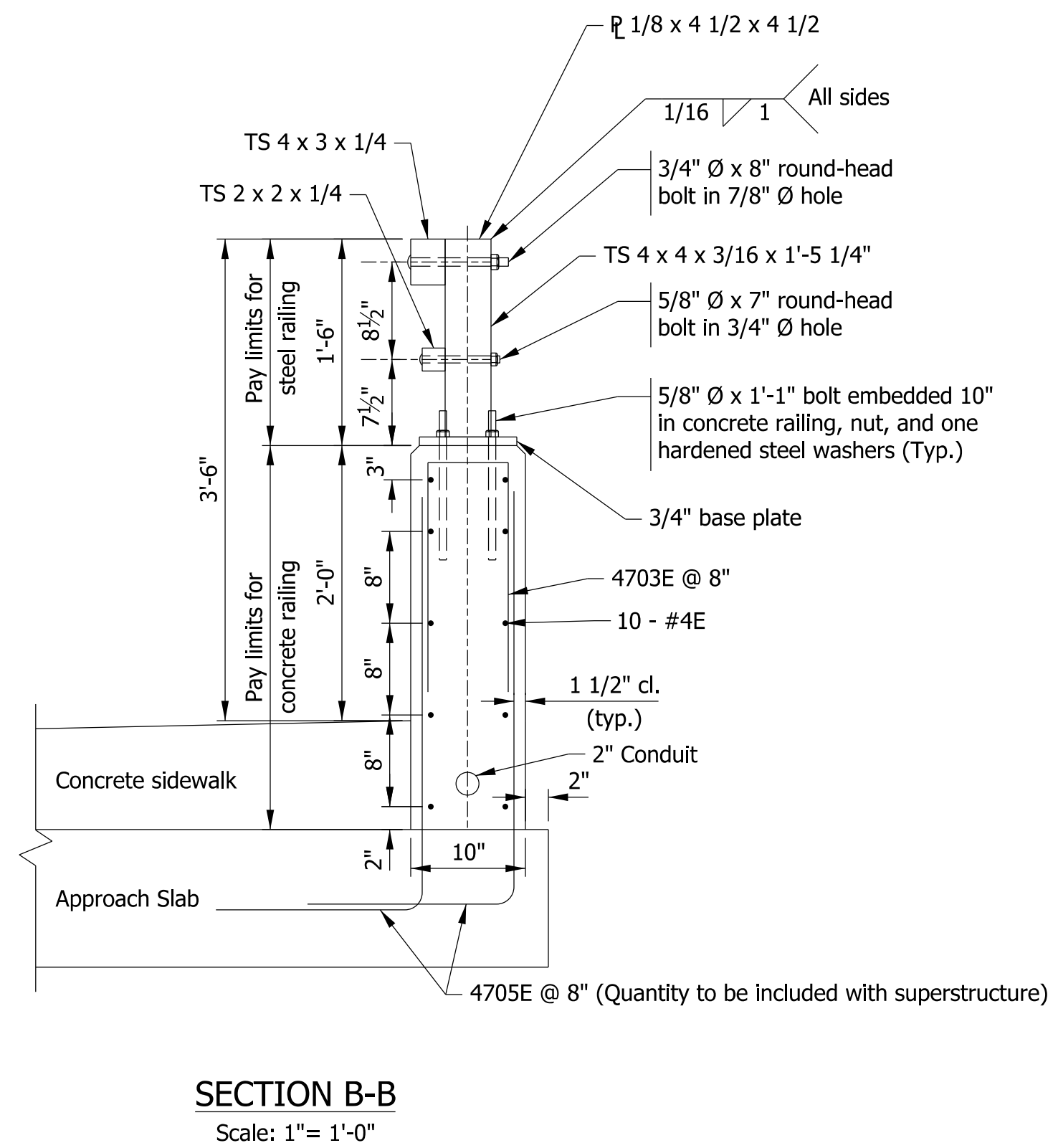
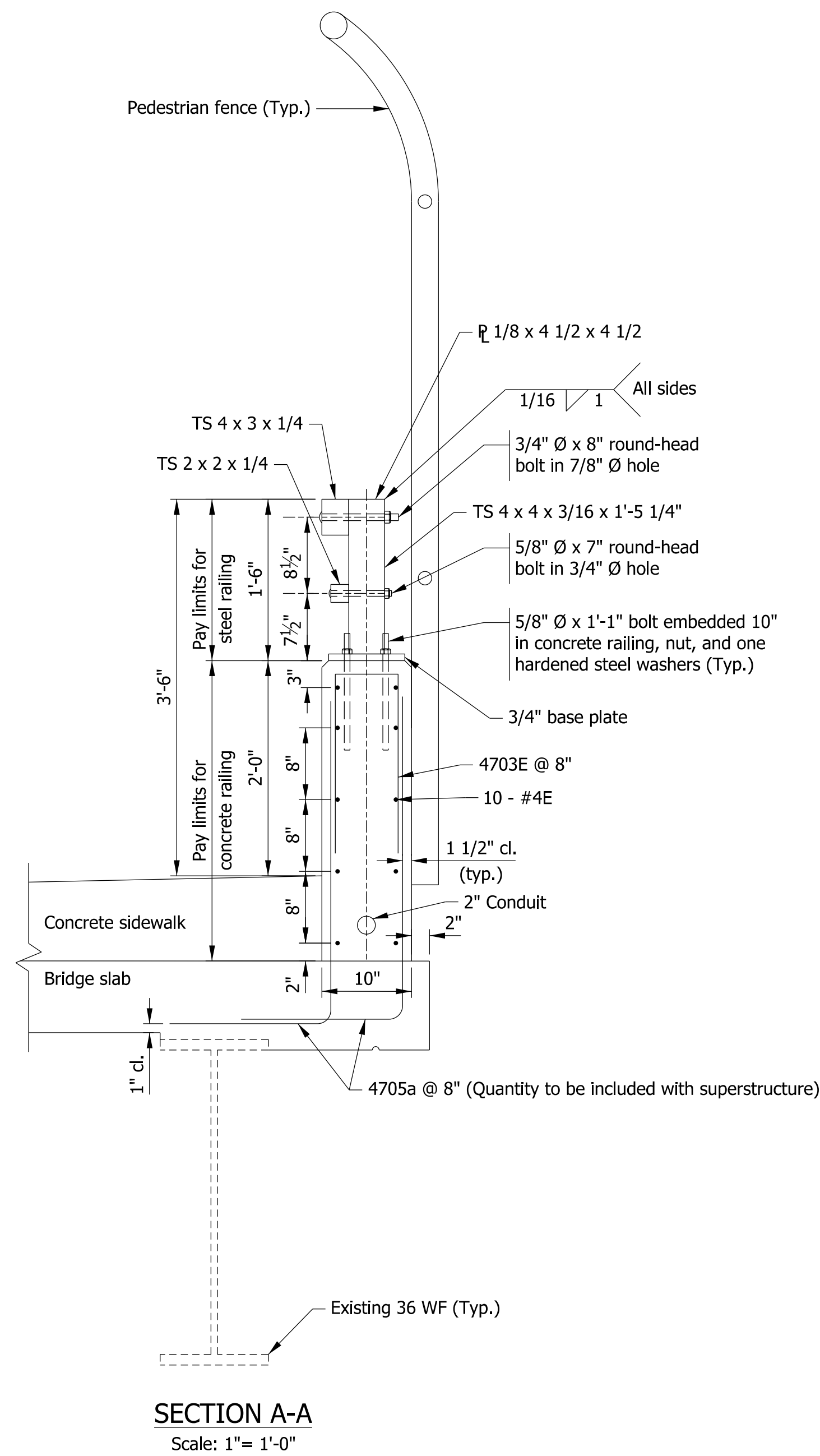


RECOMMENDED FOR APPROVAL: *Don Mullane* DESIGN ENGINEER 8/16/2017 DATE  
 DESIGNED: KAB DRAWN: PFC  
 CHECKED: RKH CHECKED: GAH

INDIANA DEPARTMENT OF TRANSPORTATION

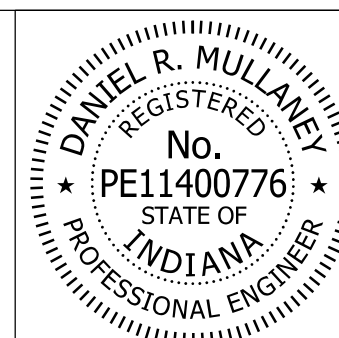
RAILING DETAILS

HORIZONTAL SCALE	BRIDGE FILE
AS NOTED	41-45-02073B
VERTICAL SCALE	DESIGNATION
AS NOTED	1172245
SURVEY BOOK	SHEETS
ELECTRONIC	63 of 86
CONTRACT	PROJECT
B-36676	1172245



**NOTES**

- 1) PS-1 rail posts to be spaced to avoid conflict with light base plate. PS-1 rail should not exceed 6'-8" between rail posts.
- 2) See Sheet 65 for Bridge Rail Pedestrian Fence details.
- 3) See Std. Dwg. E 706-BRPP-03, 05, and 06 for additional PS-1 Railing details.



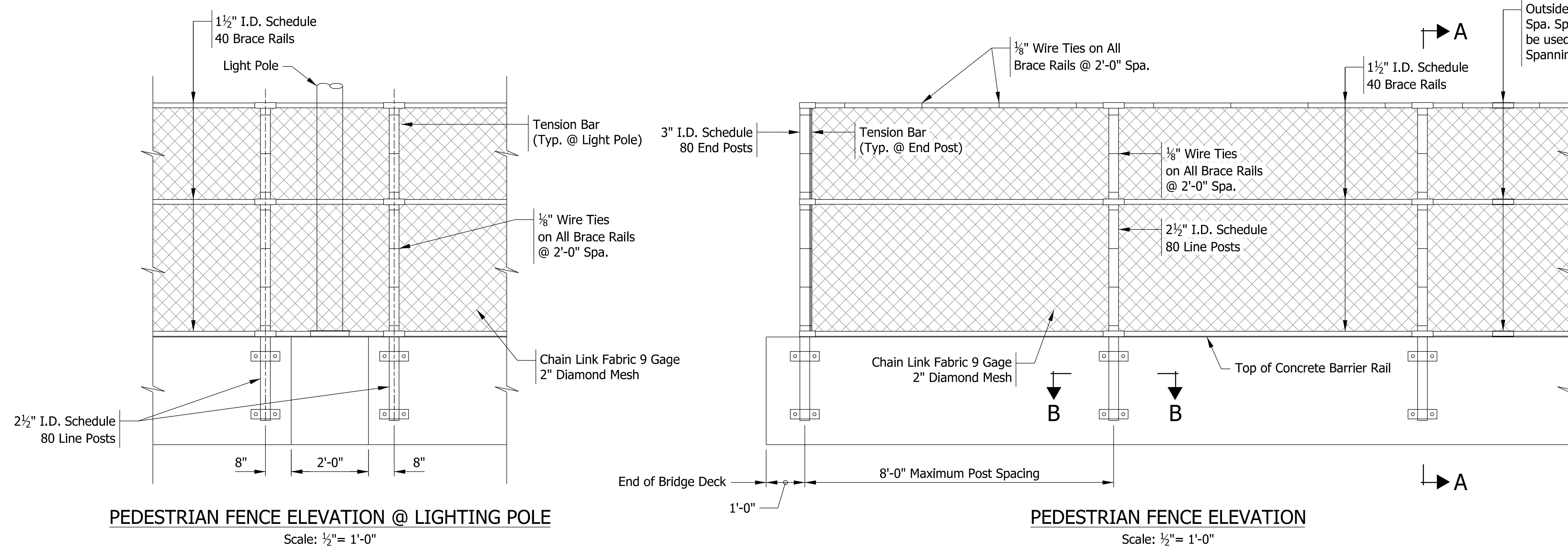
RECOMMENDED FOR APPROVAL	<i>Dan Mullany</i>	8/16/2017
	DESIGN ENGINEER	DATE
DESIGNED:	KAB	DRAWN: MDP/PFC
CHECKED:	RKH	CHECKED: GAH

INDIANA  
DEPARTMENT OF TRANSPORTATION

RAILING DETAILS

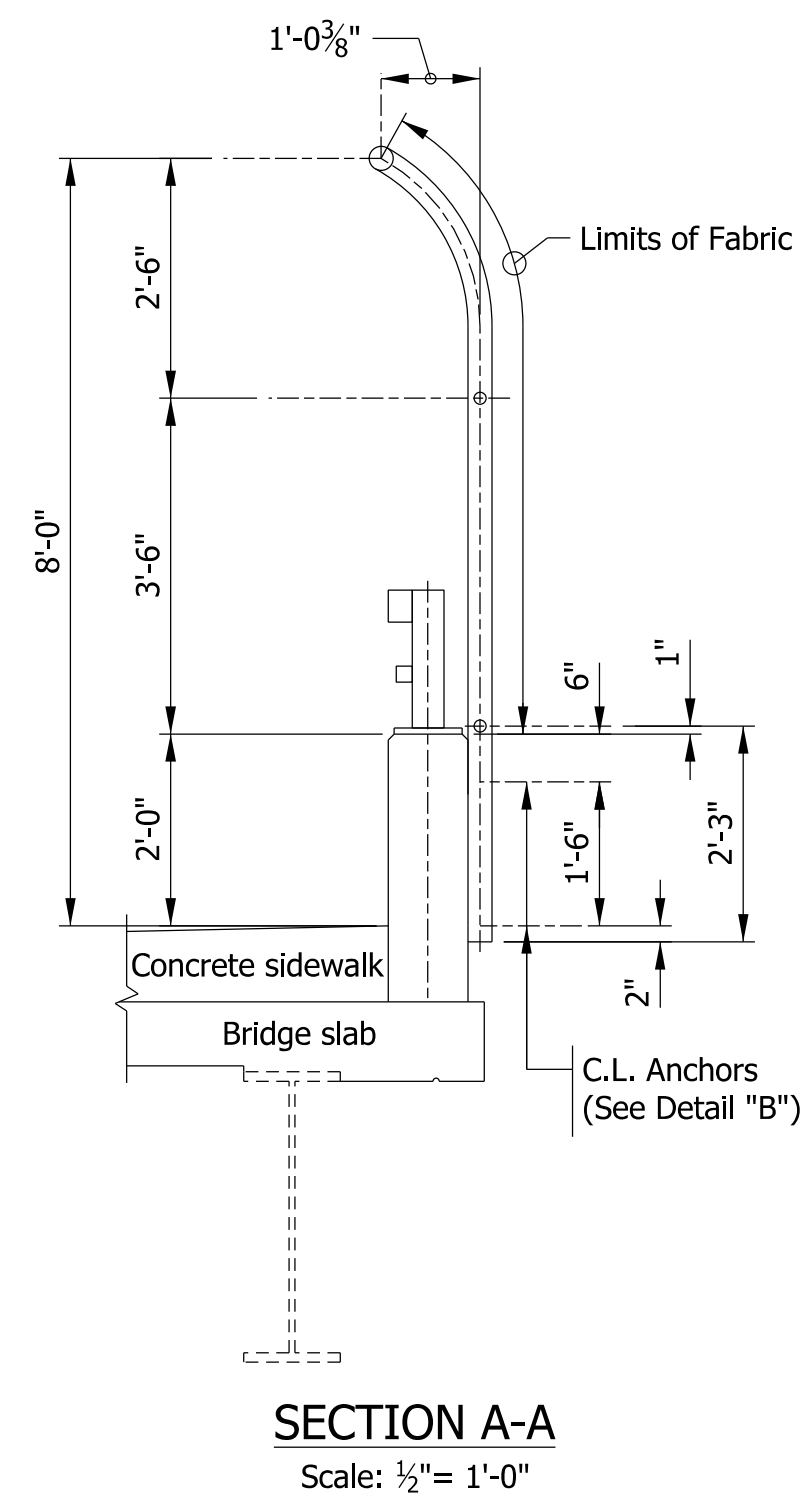
HORIZONTAL SCALE	BRIDGE FILE
AS NOTED	41-45-02073B
VERTICAL SCALE	DESIGNATION
AS NOTED	1172245
SURVEY BOOK	SHEETS
ELECTRONIC	64 of 86
CONTRACT	PROJECT
B-36676	1172245



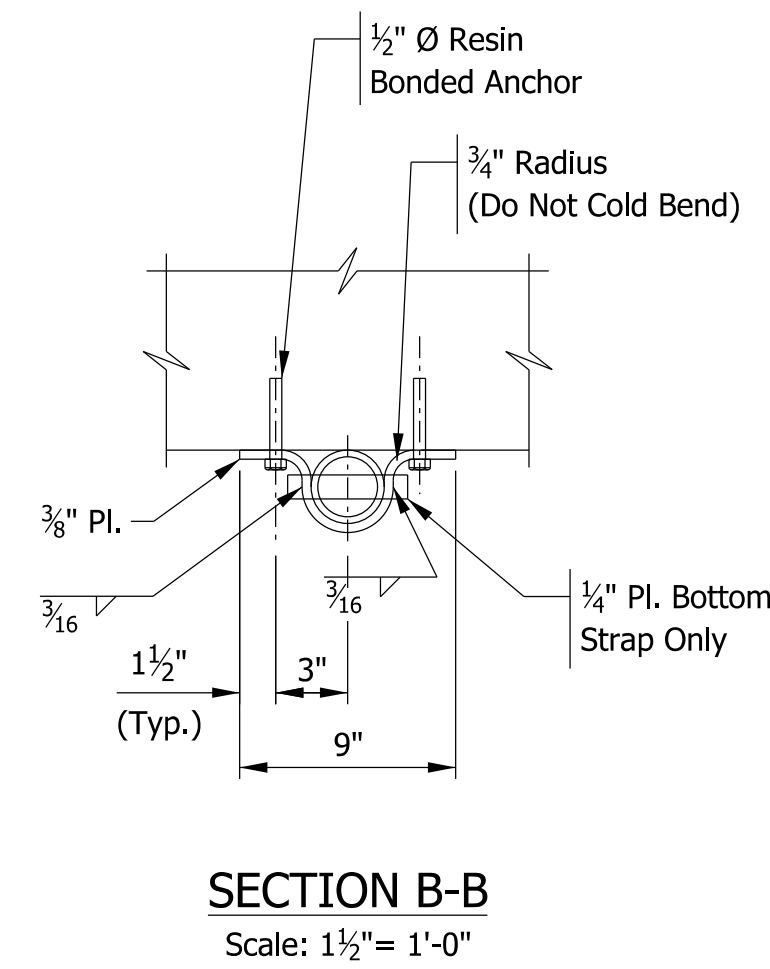


PEDESTRIAN FENCE ELEVATION @ LIGHTING POLE  
Scale: 1/2" = 1'-0"

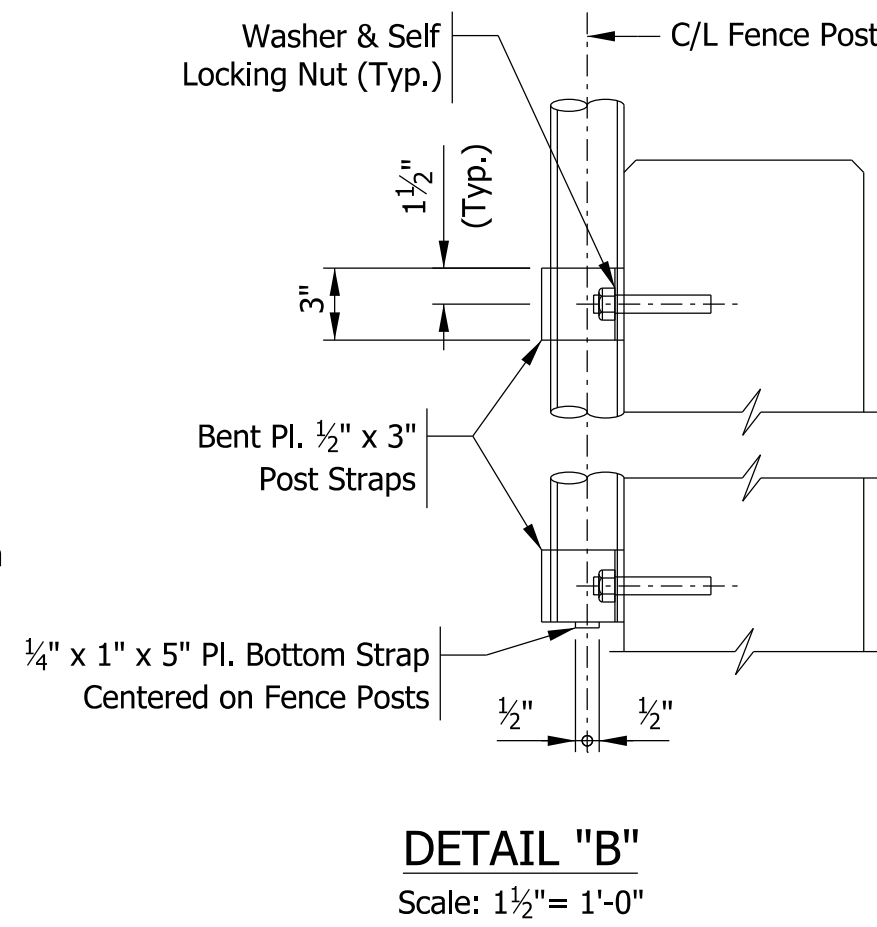
PEDESTRIAN FENCE ELEVATION  
Scale: 1/2" = 1'-0"



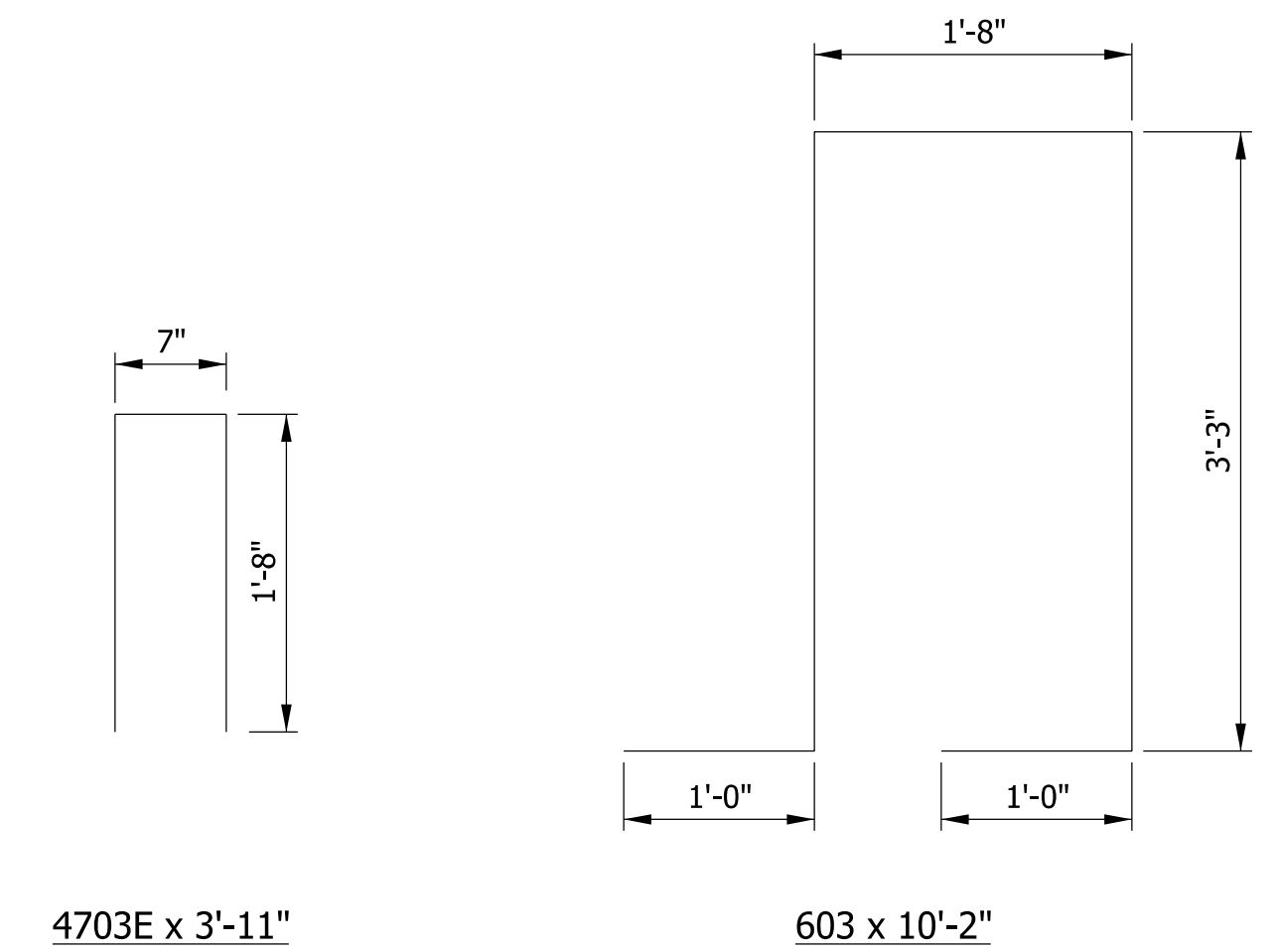
SECTION A-A  
Scale: 1/2" = 1'-0"



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



DETAIL "B"  
Scale: 1 1/2" = 1'-0"

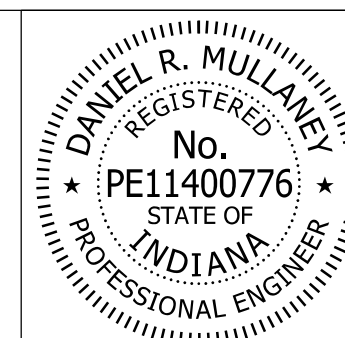


BAR BENDING DETAILS  
Not to Scale

BILL OF MATERIALS			
BRIDGE CONCRETE RAILING			
EPOXY COATED REINFORCING STEEL			
Size or Mark	Number of Bars	Length (ft)	Weight (Lbs)
603	44	10' -2"	
<b>Total #6</b>			<b>672</b>
4703	2848	3' -11"	
#4	10	42' -7"	
#4	10	42' -6"	
#4	10	42' -2"	
#4	350	40' -0"	
#4	20	27' -2"	
#4	20	14' -2"	
#4	20	8' -7"	
#4	20	8' -3"	
<b>Total #4</b>			<b>18,431</b>
<b>TOTAL EPOXY COATED</b>			<b>19,103</b>
CONCRETE			
West Rail (Cys)			83.0
East Rail (Cys)			82.7
Railing, Concrete, PS-1 (Lft)			1,790
MISCELLANEOUS			
Railing, Steel, PS-1 (Lft)			1,790
Bridge Railing, Pedestrian Fence (Lft)			1,786
Surface Seal (10,650 Sft)			1 LSUM

**NOTES**

- 1) PS-1 rail posts to be spaced to avoid conflict with light base plate. PS-1 rail should not exceed 6'-8" between rail posts.
- 2) For reinforcing bar notes, see Std. Dwg. E 703-BRST-01.

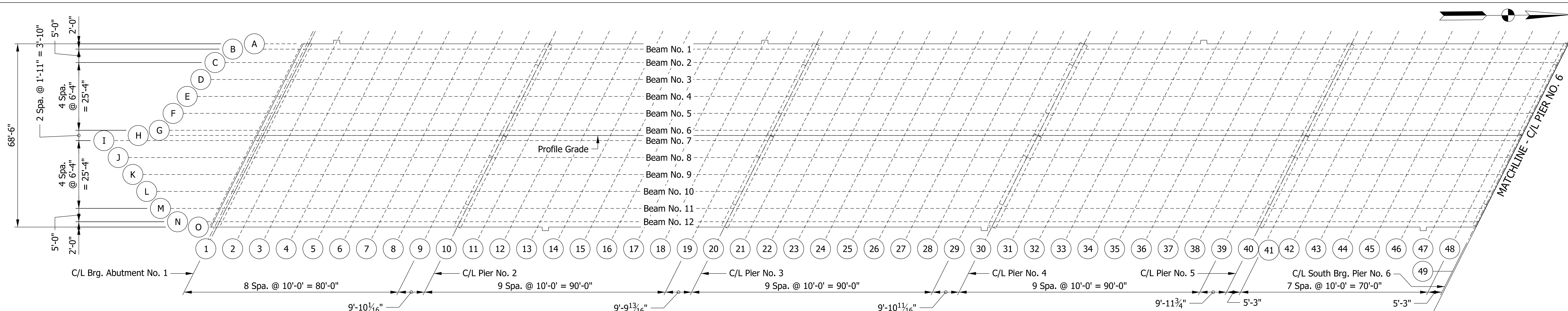


RECOMMENDED FOR APPROVAL	<i>Dan Mullany</i>	8/16/2017
	DESIGN ENGINEER	DATE
DESIGNED:	KAB	DRAWN:
		PFC
CHECKED:	RKH	CHECKED:
		GAH

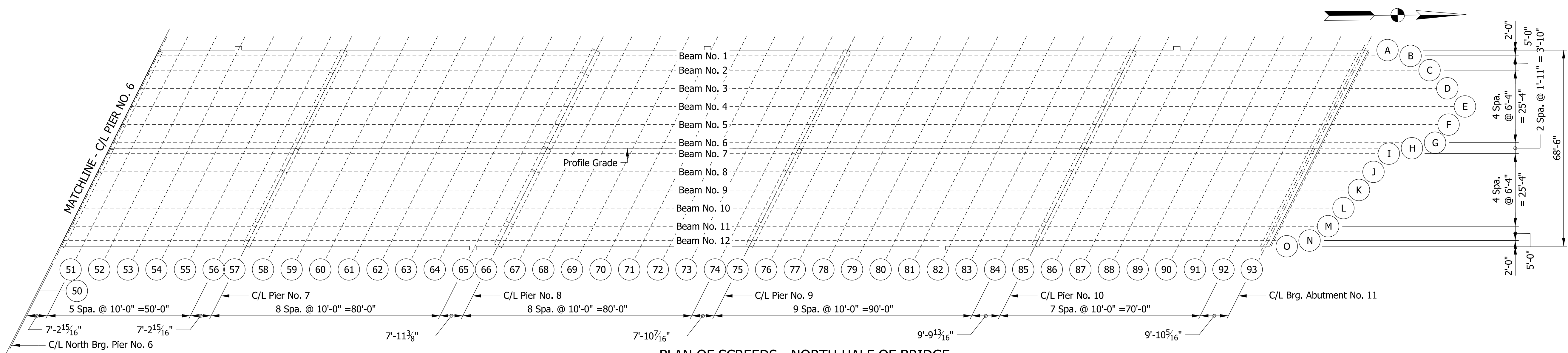
INDIANA  
DEPARTMENT OF TRANSPORTATION

RAILING DETAILS

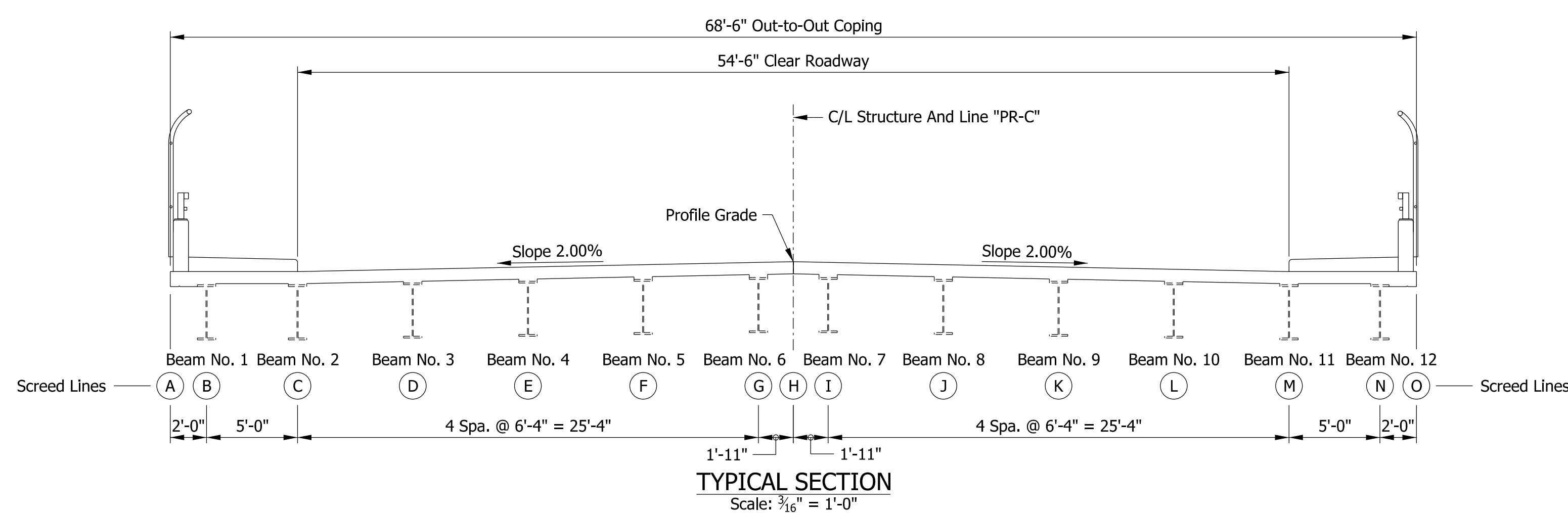
HORIZONTAL SCALE	BRIDGE FILE
AS NOTED	41-45-02073B
VERTICAL SCALE	DESIGNATION
AS NOTED	1172245
SURVEY BOOK	SHEETS
ELECTRONIC	65 of 86
CONTRACT	PROJECT
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**PLAN OF SCREEDS - SOUTH HALF OF BRIDGE**  
Scale: 1" = 20'



**PLAN OF SCREEDS - NORTH HALF OF BRIDGE**  
Scale: 1" = 20'

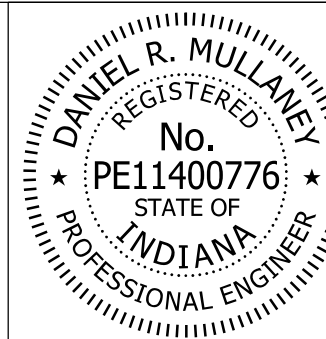


**TYPICAL SECTION**  
Scale: 3/16" = 1'-0"

**PROCEDURE AND NOTES**

1. See Sheet 69 for Concrete Dead Load Deflection Diagram.
2. See Sheets 67 - 68 for Table of Screeds.
3. After beams are set, take elevations at all screed points on top of beams. Enter these elevations in the table. Subtract these elevations from the tabulated elevations and use the resulting dimensions as the height for setting screed forms above these points. These dimensions remain constant regardless of how much or in what order the concrete is poured.
4. Do not set screed forms by leveling.
5. No concrete in the floor slab shall be poured until the above operations are completed.
6. Screed elevations as shown in the table include an allowance for concrete dead load deflections.

Model: Screenshot 8/17/2017 10:28:32 AM User: kharrison



RECOMMENDED FOR APPROVAL: *Don Mullane* 8/16/2017  
DESIGN ENGINEER DATE

DESIGNED: DRM DRAWN: KCH  
CHECKED: KAB CHECKED: KAB

INDIANA  
DEPARTMENT OF TRANSPORTATION

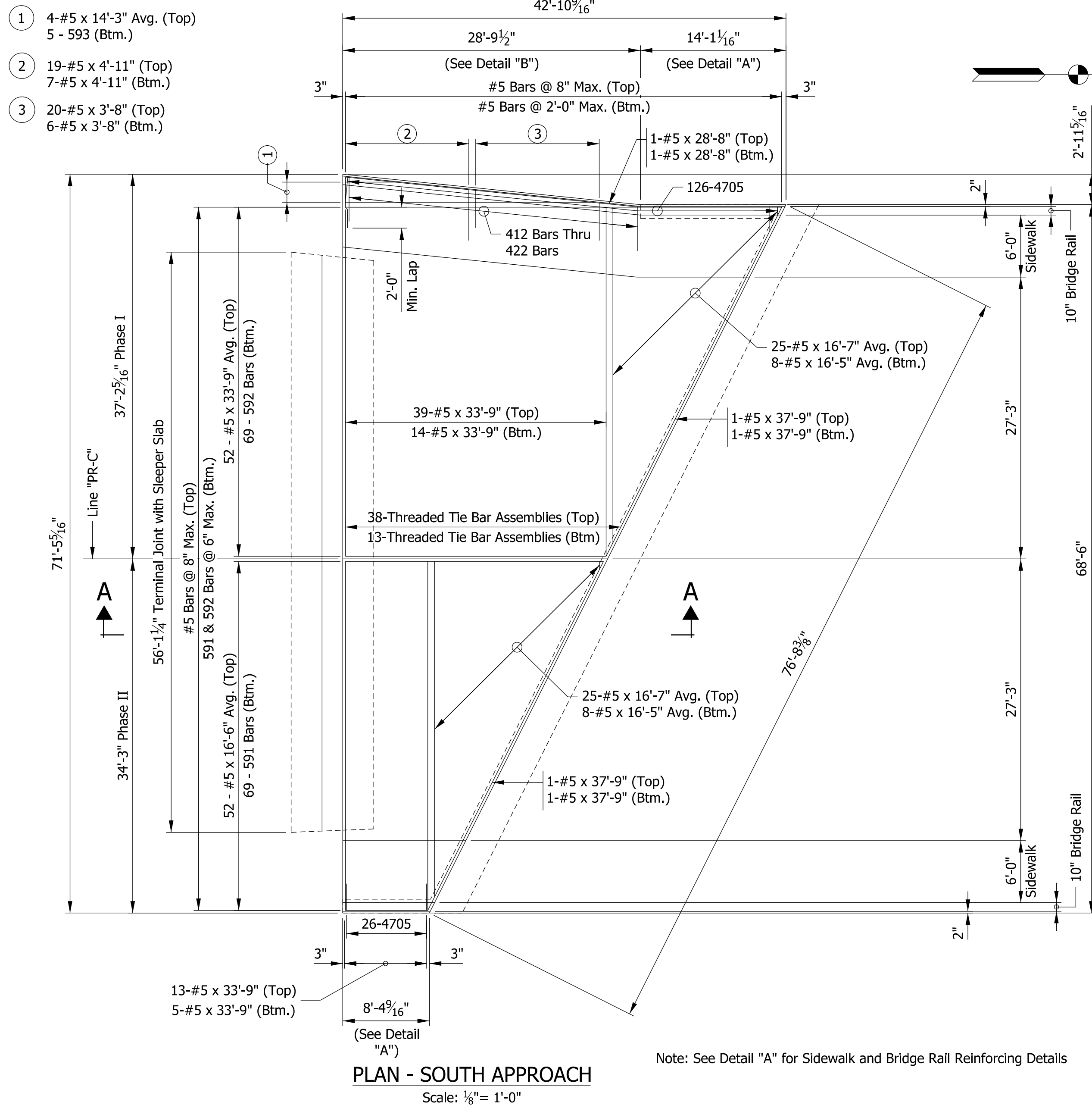
**SCREEDS**

HORIZONTAL SCALE	BRIDGE FILE
AS NOTED	41-45-02073B
VERTICAL SCALE	DESIGNATION
AS NOTED	1172245
SURVEY BOOK	SHEETS
ELECTRONIC	66 of 86
CONTRACT	PROJECT
B-36676	1172245

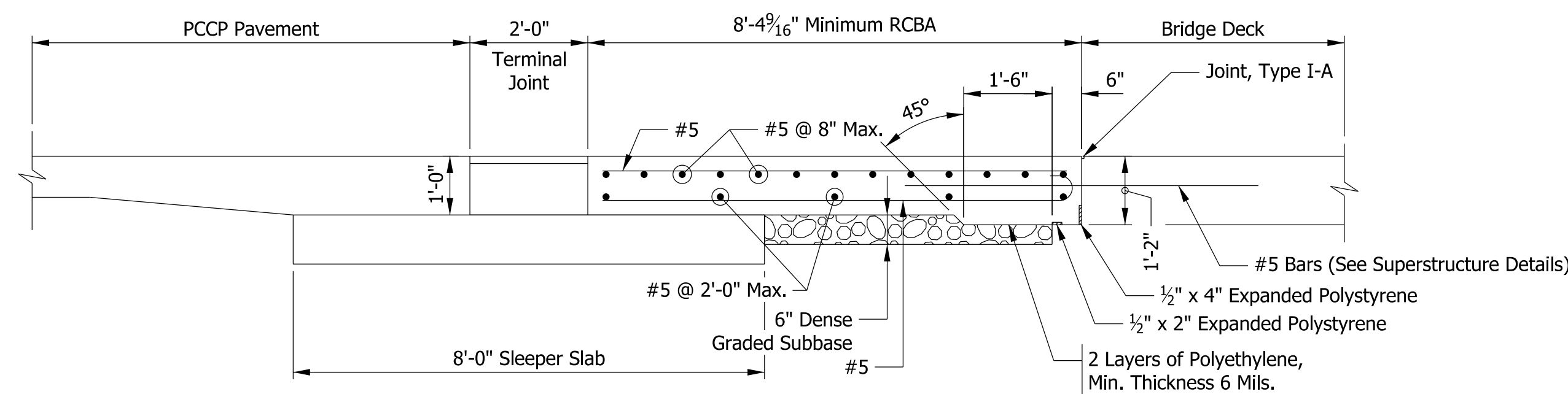
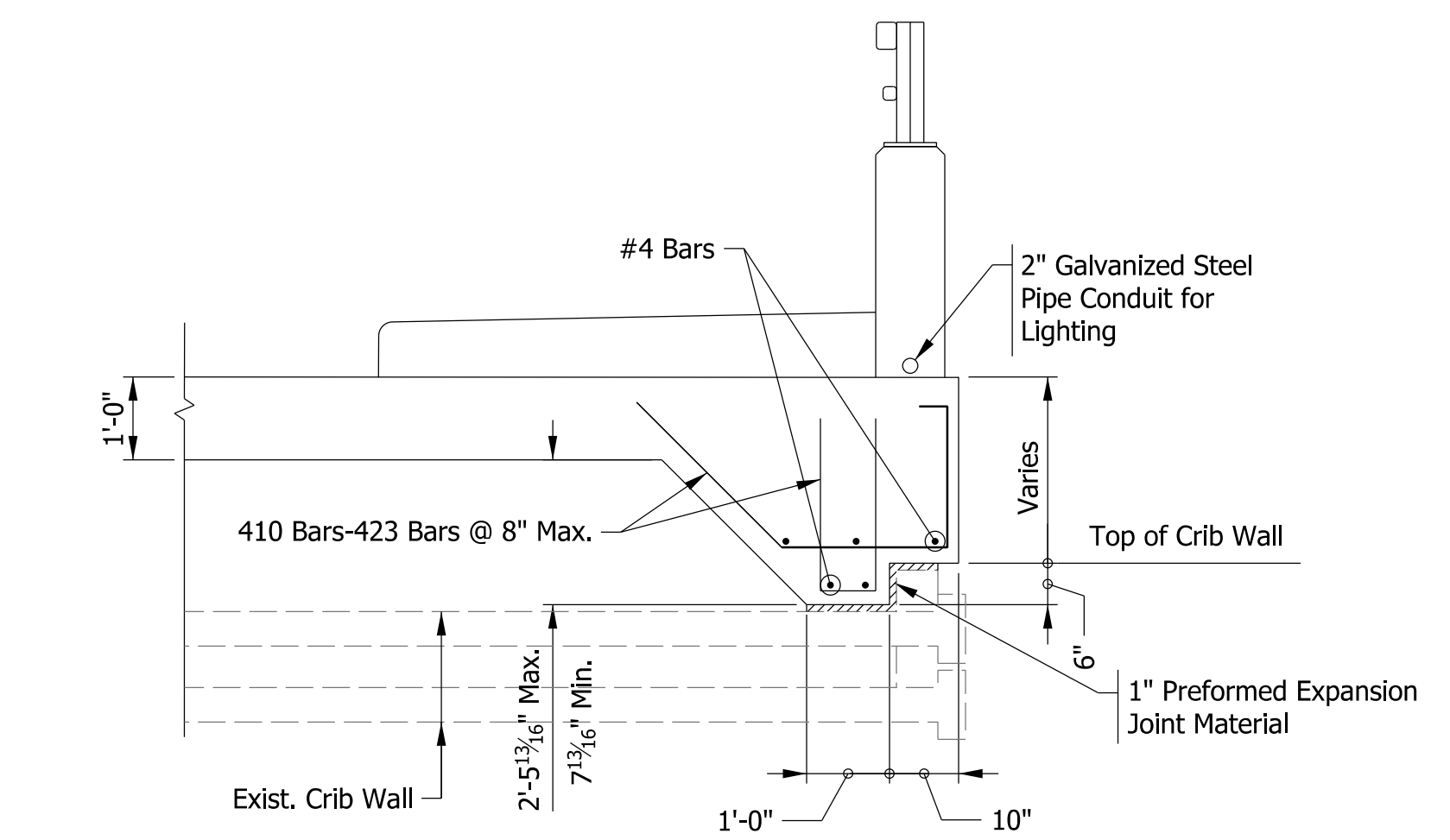
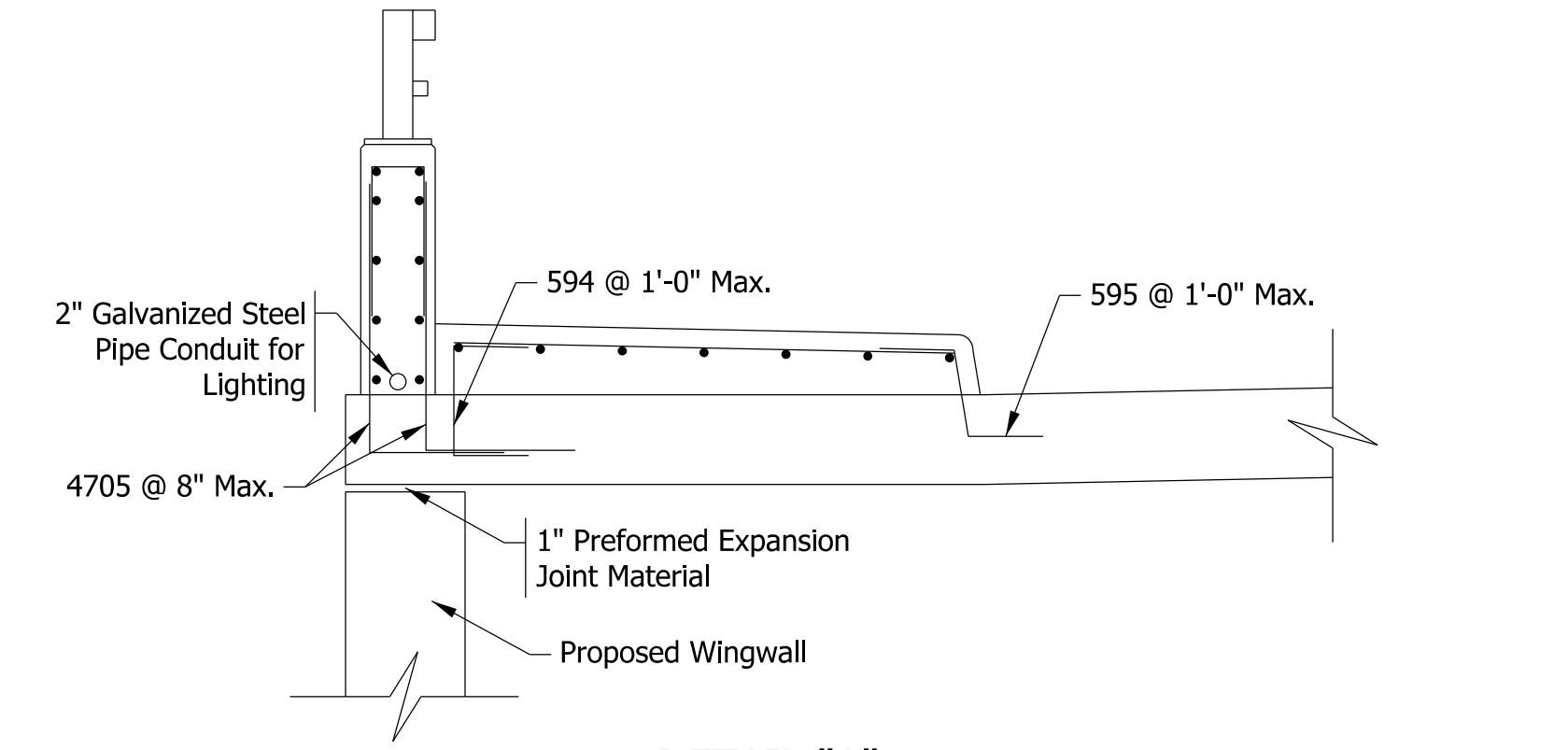
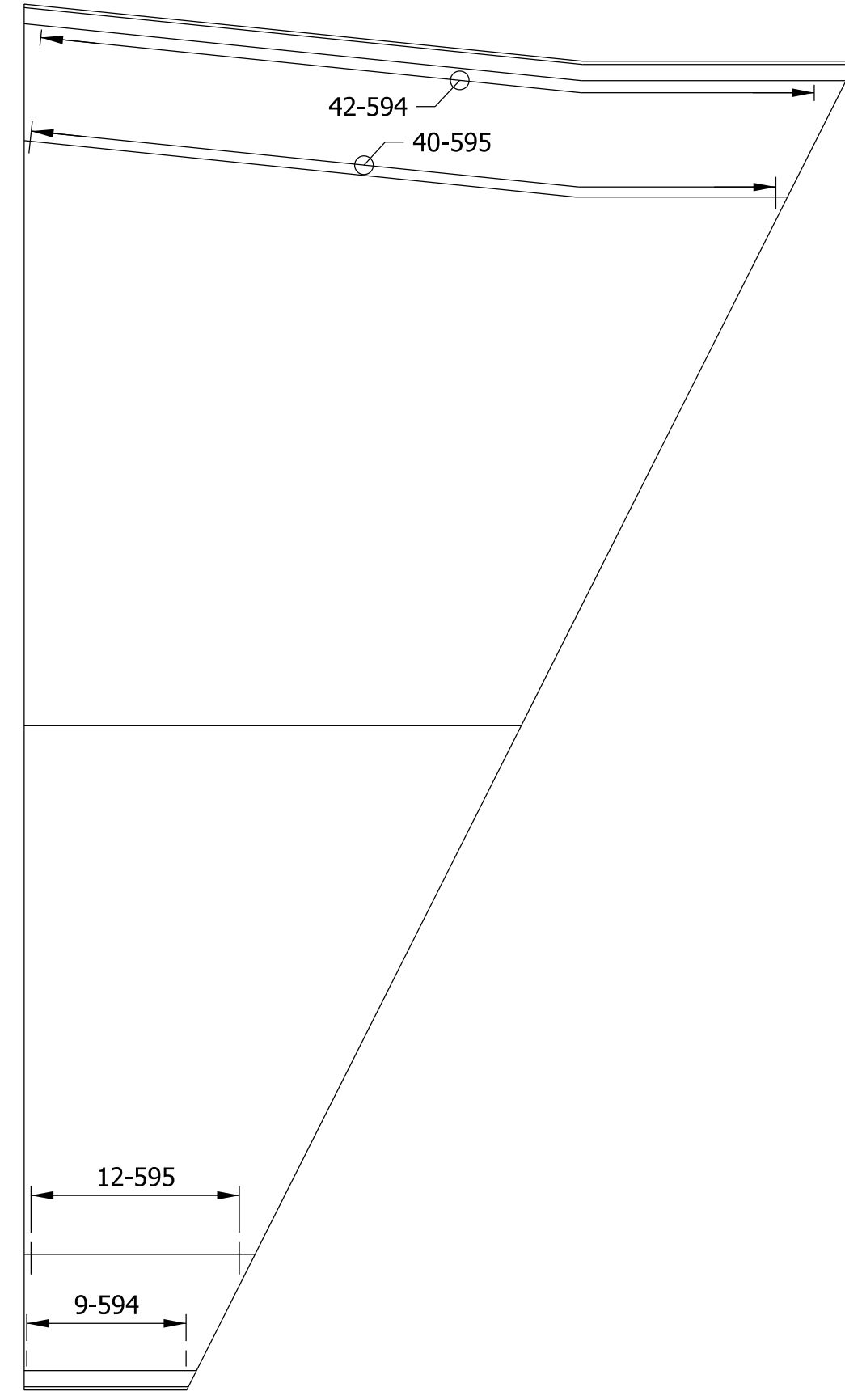






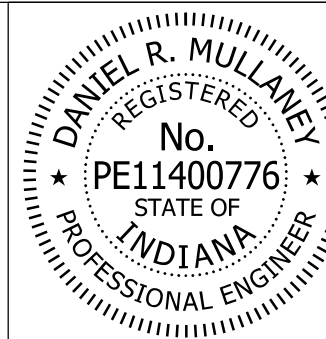


**PLAN - SIDEWALK REINFORCING**  
Scale: 1/8" = 1'-0"



- NOTES**
- 1) All Reinforcing Bars to be Epoxy Coated
  - 2) See Standard Drawing E609-RCBA-03 for Additional Details.
  - 3) See Standard Drawing E706-BRPP-03 for Bridge Railing Details.
  - 4) See Std. Dwg. E 503-BATJ-01 for Terminal Joint and Sleeper Slab details.

Model: Sheet 2  
8/17/2017 10:28:39 AM User: kharrison



RECOMMENDED FOR APPROVAL: *Dan Mullany* DESIGN ENGINEER 8/16/2017 DATE

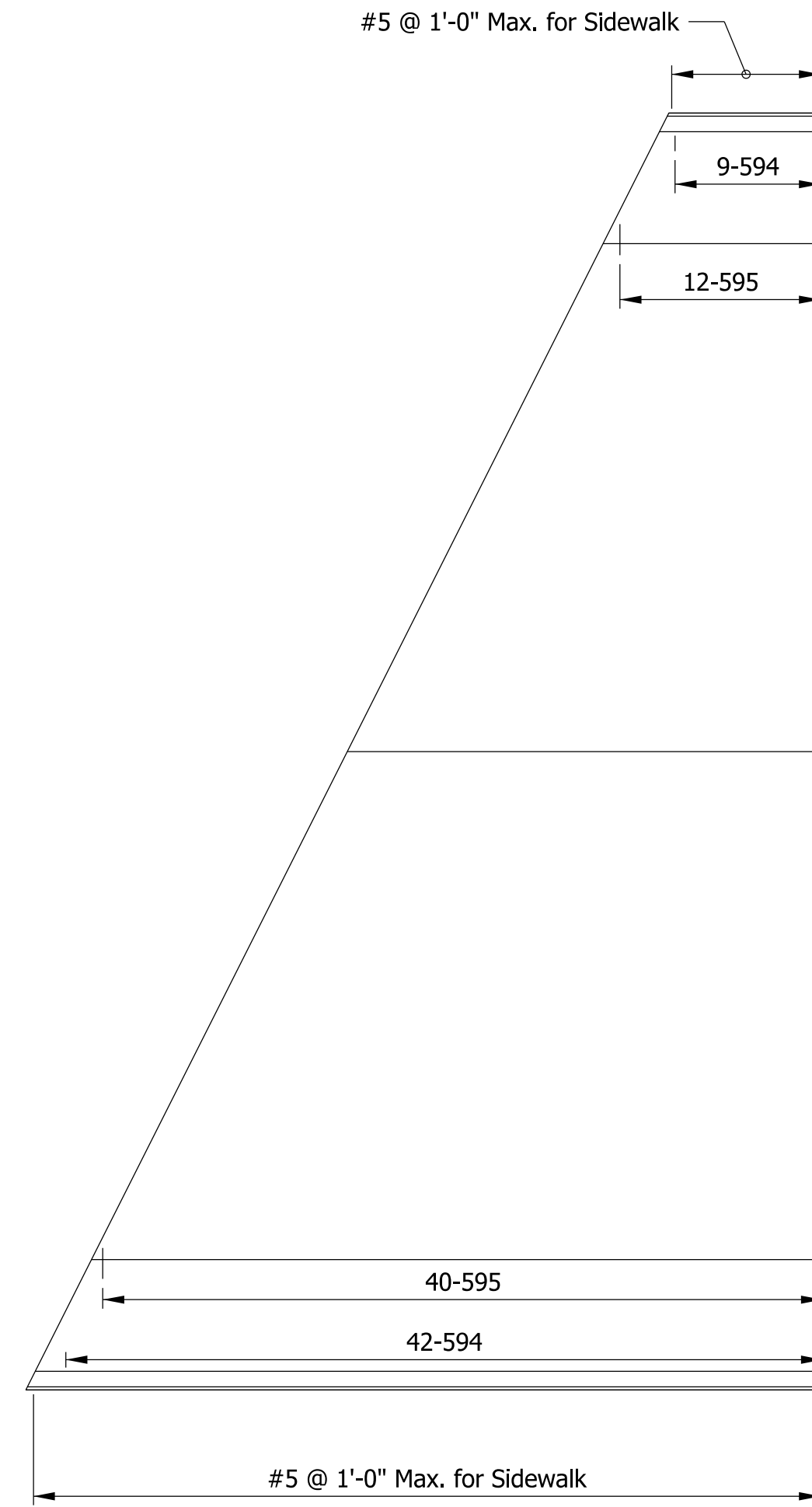
DESIGNED: PFC DRAWN: PFC

CHECKED: RKH CHECKED: RKH

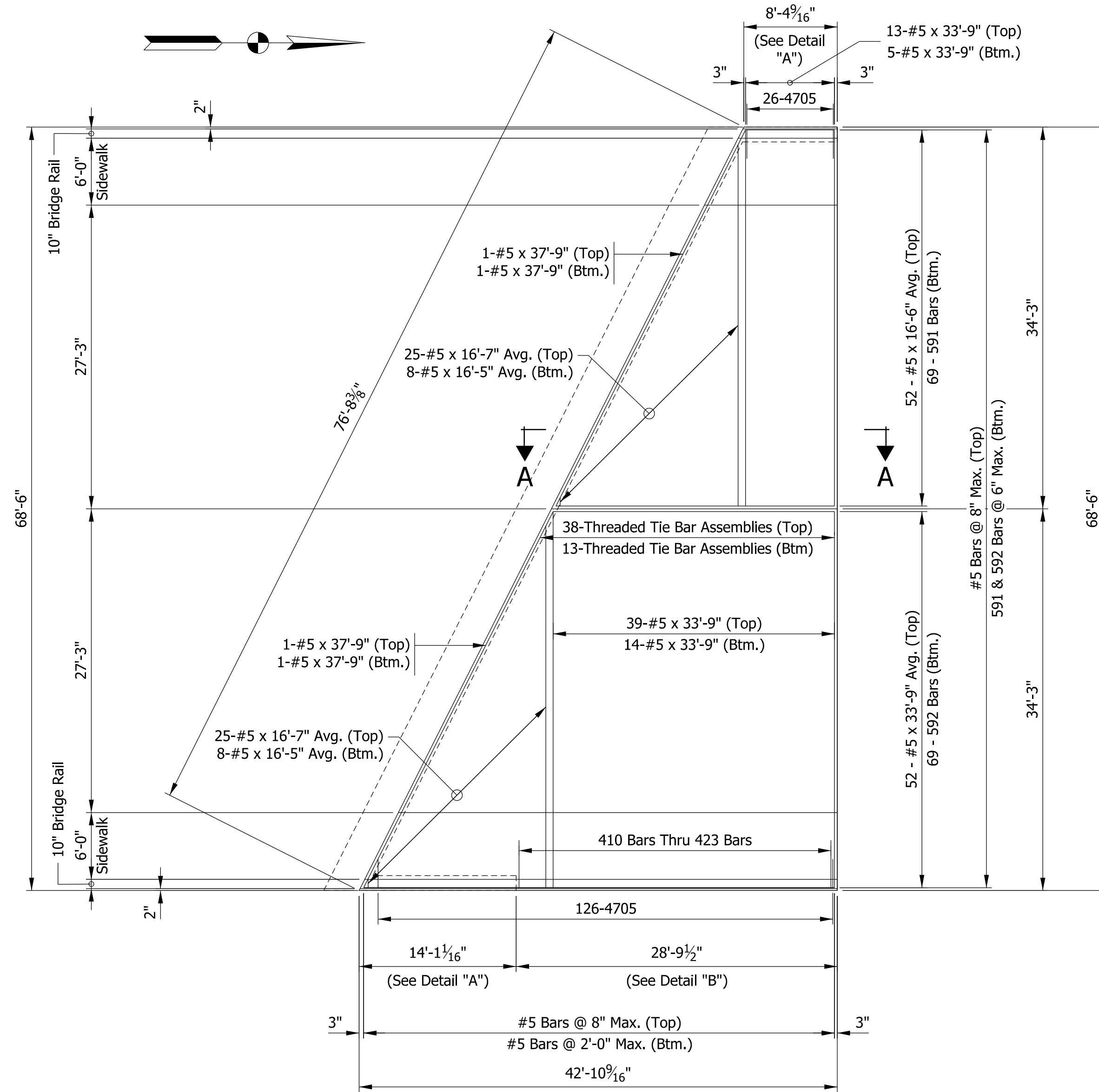
INDIANA  
DEPARTMENT OF TRANSPORTATION

R.C. BRIDGE APPROACH

HORIZONTAL SCALE	BRIDGE FILE
AS NOTED	41-45-02073B
VERTICAL SCALE	DESIGNATION
AS NOTED	1172245
SURVEY BOOK	SHEETS
ELECTRONIC	70 of 86
CONTRACT	PROJECT
B-36676	1172245

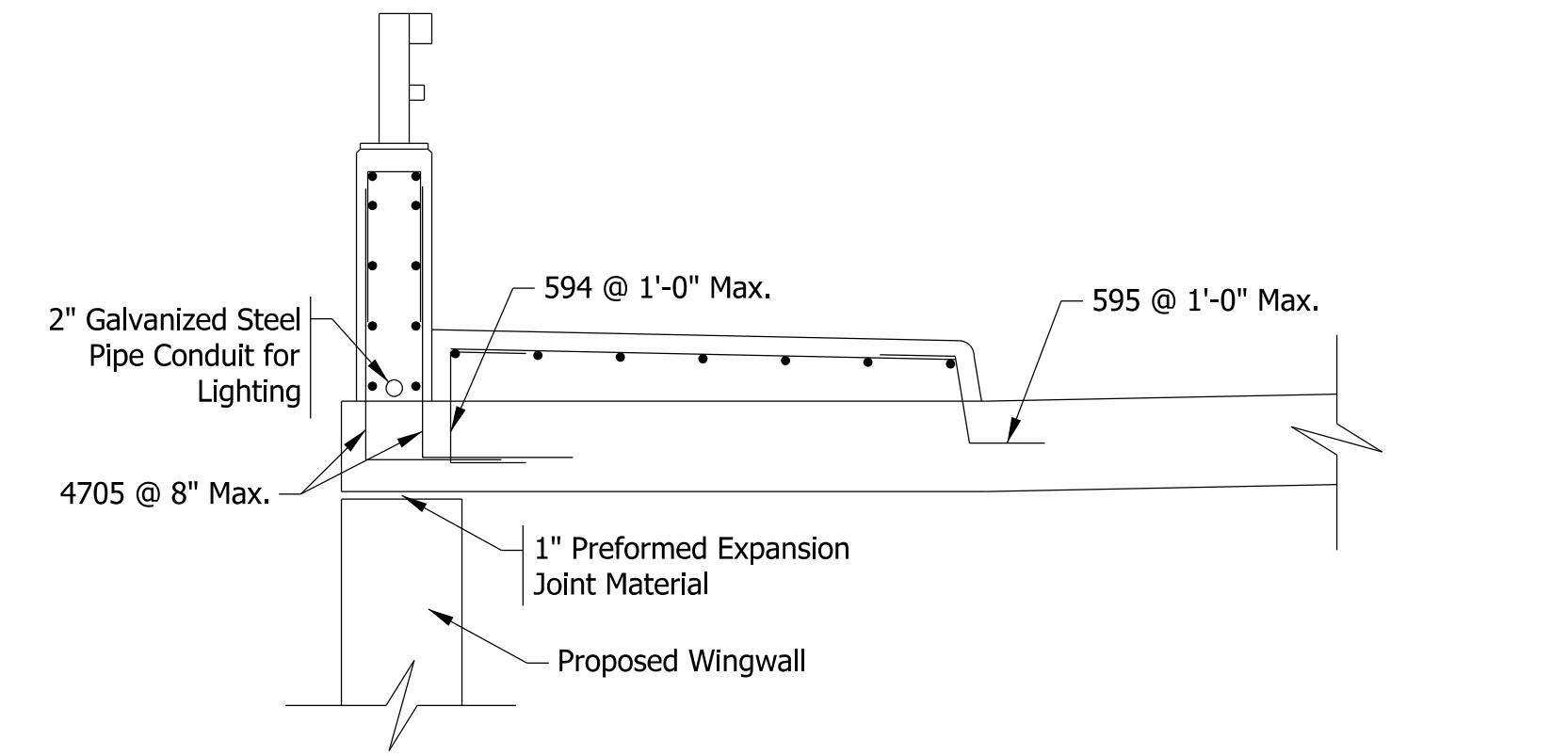


**PLAN - NORTH SIDEWALK DETAILS**  
Scale: 1/8" = 1'-0"

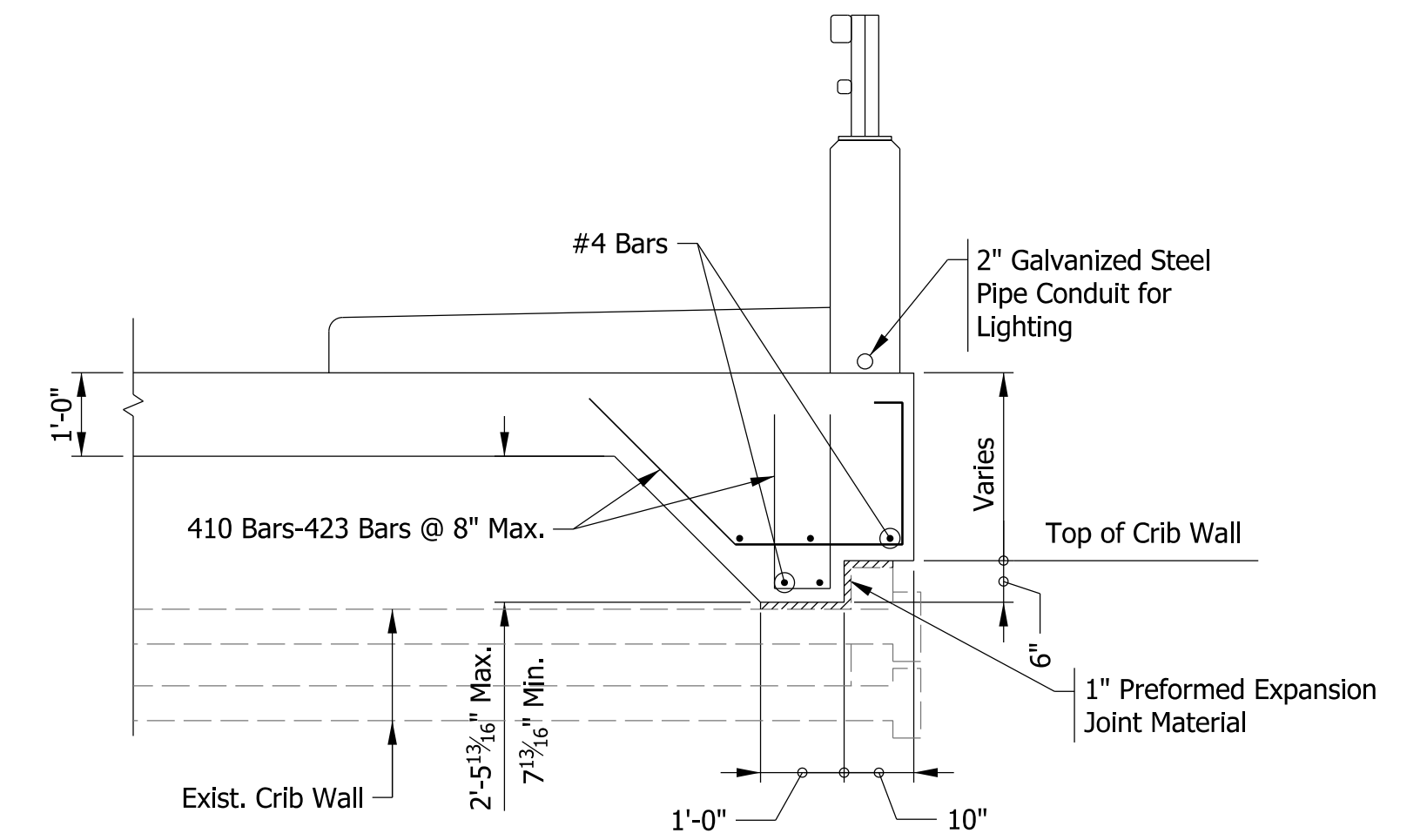


**PLAN - NORTH APPROACH**  
Scale: 1/8" = 1'-0"

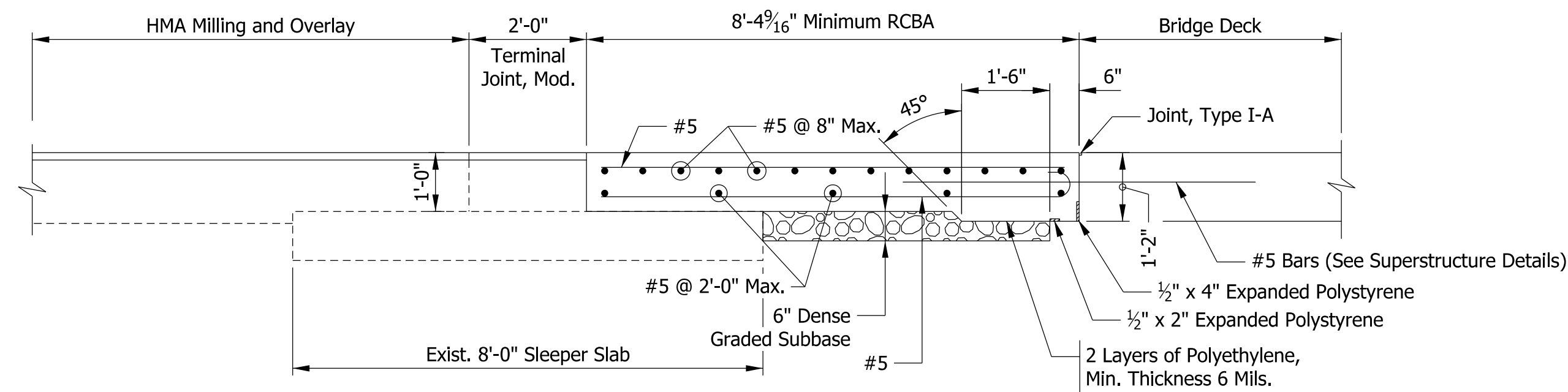
Note: See Detail "A" for Sidewalk and Bridge Rail Reinforcing Details



**DETAIL "A"**  
Scale: 1/2" = 1'-0"



**DETAIL "B"**  
Scale: 1/2" = 1'-0"

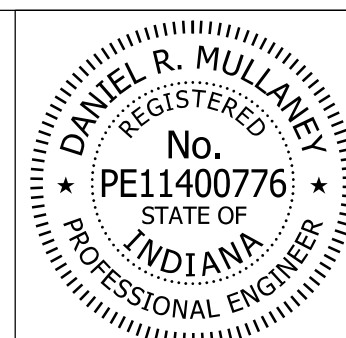


**SECTION A-A**  
Scale: 1/2" = 1'-0"

**NOTES**

- 1) All Reinforcing Bars to be Epoxy Coated
- 2) See Standard Drawing E609-RCBA-03 for Additional Details.
- 3) See Standard Drawing E706-BRPP-03 for Bridge Railing Details.

Model: Sheet 1 8/17/2017 10:28:40 AM User: kharrison



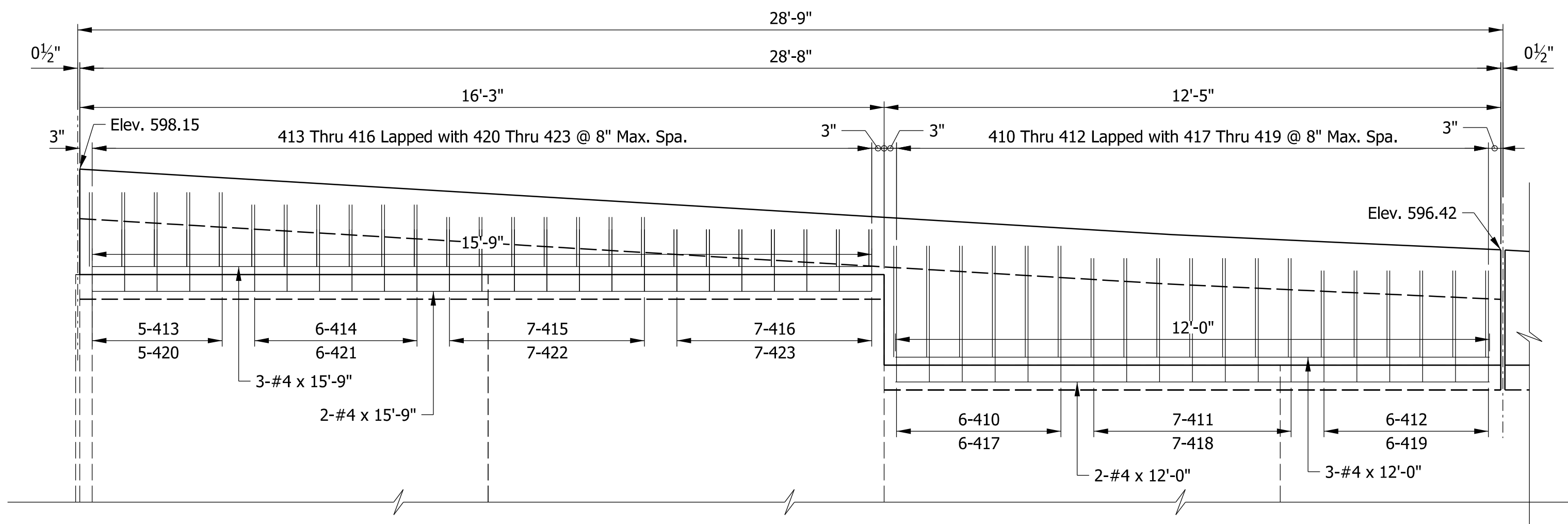
RECOMMENDED FOR APPROVAL *Dan Mullane* 8/16/2017  
DESIGN ENGINEER DATE

DESIGNED: PFC DRAWN: PFC  
CHECKED: RKH CHECKED: RKH

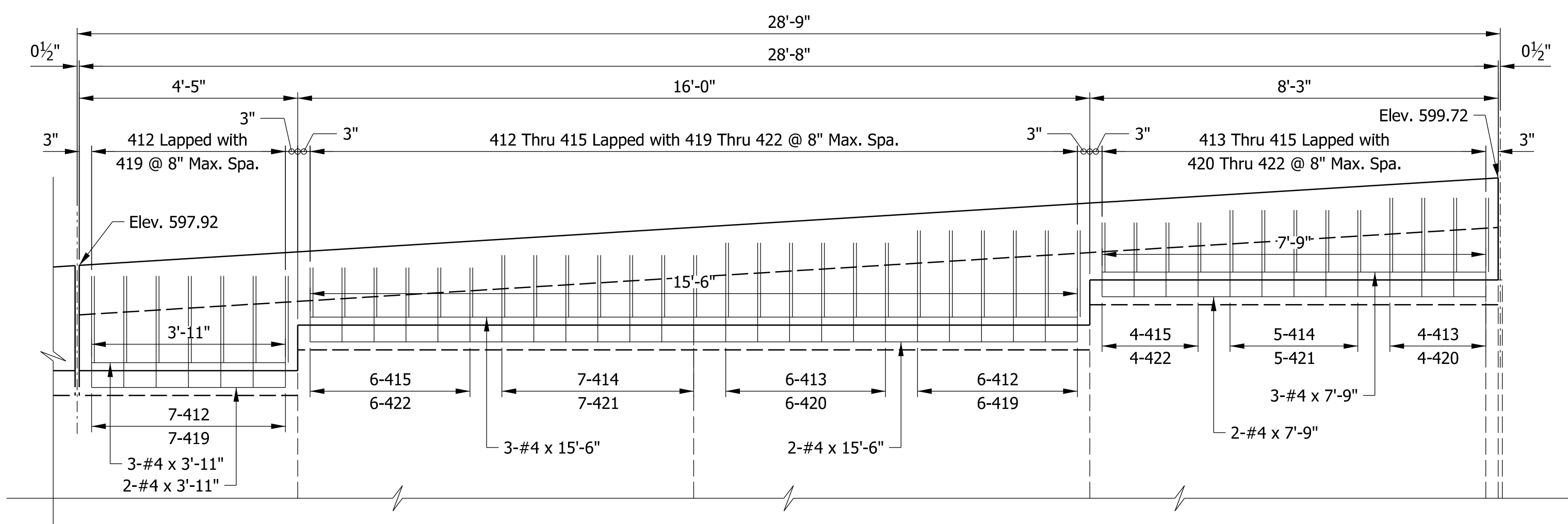
INDIANA  
DEPARTMENT OF TRANSPORTATION

R.C. BRIDGE APPROACH

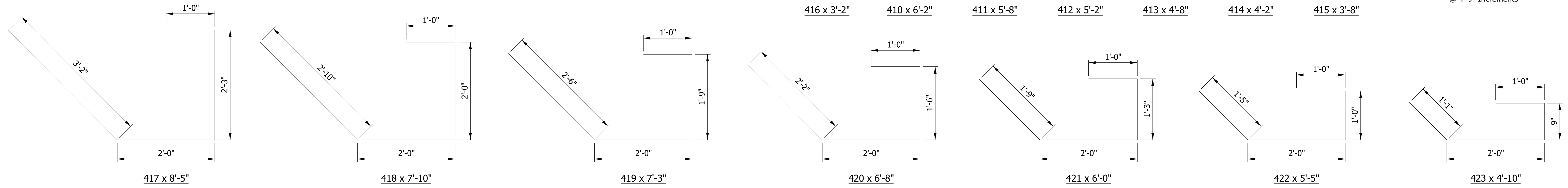
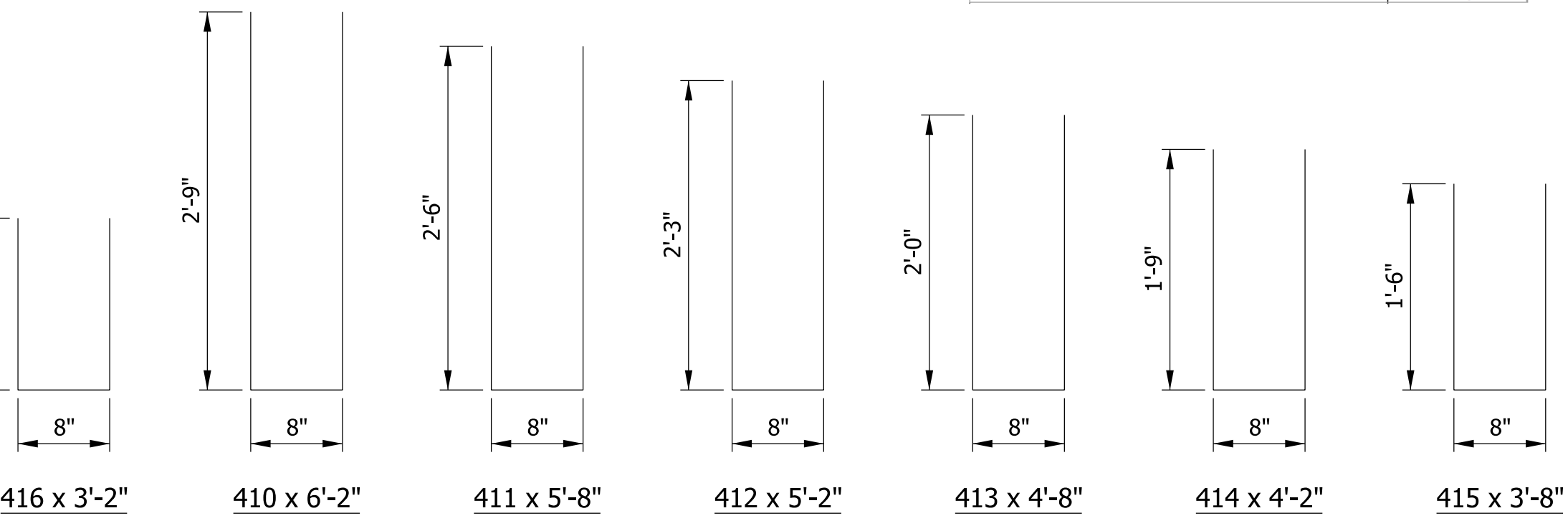
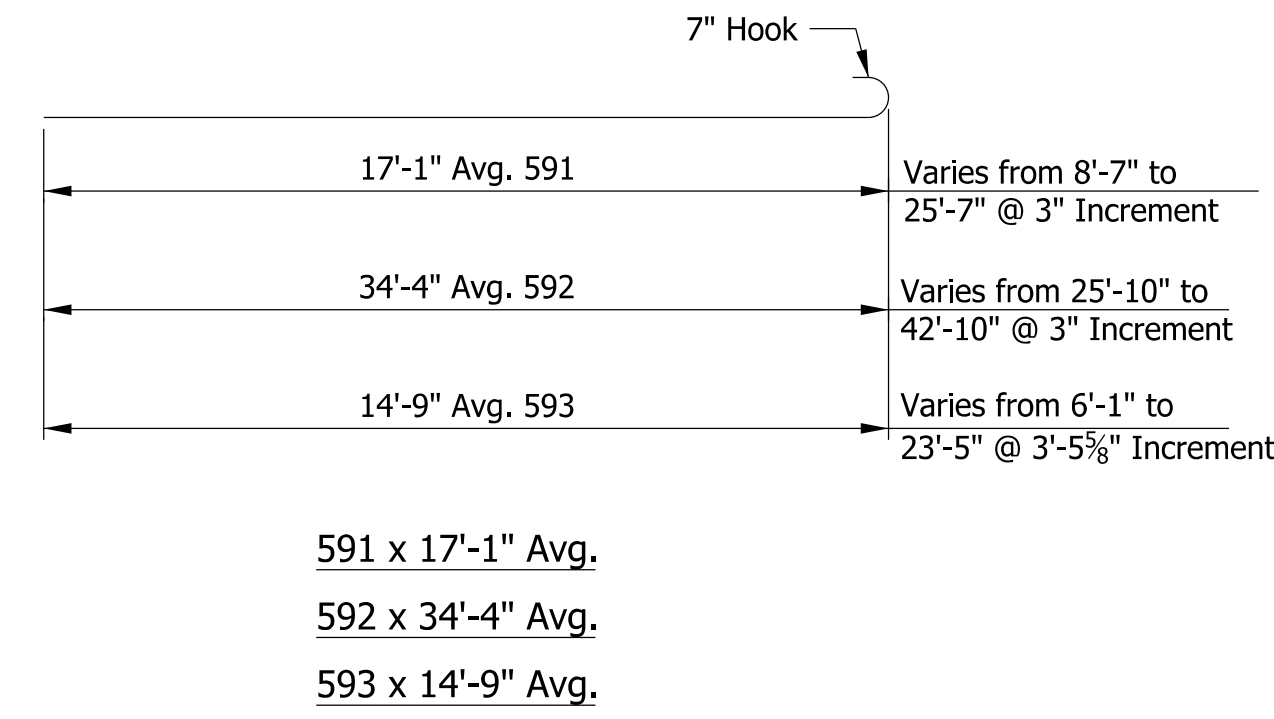
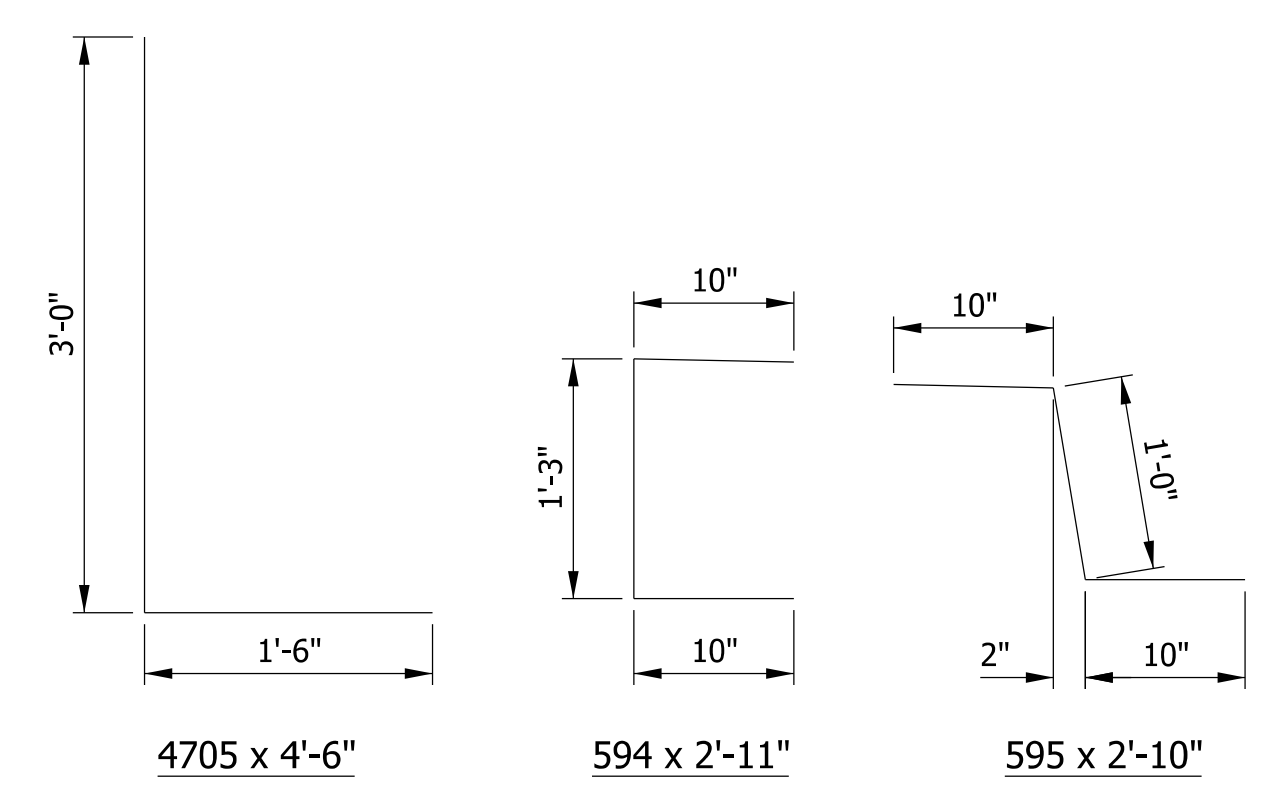
HORIZONTAL SCALE	BRIDGE FILE
AS NOTED	41-45-02073B
VERTICAL SCALE	DESIGNATION
AS NOTED	1172245
SURVEY BOOK	SHEETS
ELECTRONIC	71 of 86
CONTRACT	PROJECT
B-36676	1172245



CRIB WALL ELEVATION - NORTHEAST CORNER  
Scale: 1/2"=1'-0"



CRIB WALL ELEVATION - SOUTHWEST CORNER  
Scale: 1/2"=1'-0"

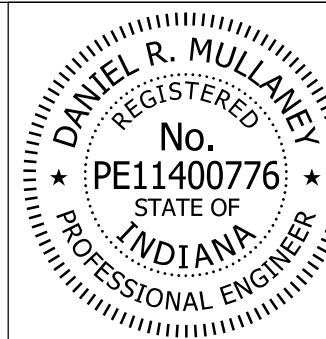


BILL OF MATERIALS			
R.C. BRIDGE APPROACH			
BENT NO. 1			
(SOUTH APPROACH)			
EPOXY COATED REINFORCING STEEL			
Size or Mark	Number of Bars	Length (ft)	Weight (Lbs)
591	69	17' -1"	
592	69	34' -4"	
593	5	14' -9"	
594	51	2' -11"	
595	52	2' -10"	
#5	4	37' -9"	
#5	71	33' -9"	
#5	52	33' -9"	(4)
#5	2	28' -8"	
#5	50	16' -7"	(5)
#5	52	16' -6"	(6)
#5	16	16' -5"	(7)
#5	4	14' -3"	(8)
#5	26	4' -11"	
#5	26	3' -8"	
Total #5			10,959
412	13	5' -2"	
413	10	4' -8"	
414	12	4' -2"	
415	10	3' -8"	
419	13	7' -3"	
420	10	6' -8"	
421	12	6' -0"	
422	10	5' -5"	
4705	152	4' -6"	
#4	5	15' -6"	
#4	5	7' -9"	
#4	5	3' -11"	
Total #4			874
TOTAL EPOXY COATED			11,833
CONCRETE			
Total Reinforced Concrete Bridge Approach, 12 In. (Sys)			201.0
MISCELLANEOUS			
Threaded Tie Bar Assembly, Epoxy Coated (Each)			51
Dense Graded Subbase (Cys)			29
Pavement, Remove (Sys)			201
Terminal Joint (Lft)			56
Surface Seal (LS Item) (Sft)			1,800

BILL OF MATERIALS			
R.C. BRIDGE APPROACH			
BENT NO. 11			
(NORTH APPROACH)			
EPOXY COATED REINFORCING STEEL			
Size or Mark	Number of Bars	Length (ft)	Weight (Lbs)
591	69	17' -1"	
592	69	34' -4"	
594	51	2' -11"	
595	52	2' -10"	
#5	4	37' -9"	
#5	71	33' -9"	
#5	52	33' -9"	(4)
#5	50	16' -7"	(5)
#5	52	16' -5"	(6)
#5	16	16' -5"	(7)
Total #5			10,531
410	6	6' -2"	
411	7	5' -8"	
412	6	5' -2"	
413	5	4' -8"	
414	6	4' -2"	
415	7	3' -8"	
416	7	3' -2"	
417	6	8' -5"	
418	7	7' -10"	
419	6	7' -3"	
420	5	6' -8"	
421	6	6' -0"	
422	7	5' -5"	
423	7	4' -10"	
4705	152	4' -6"	
#4	5	15' -9"	
#4	5	12' -0"	
Total #4			880
TOTAL EPOXY COATED			11,411
CONCRETE			
Total Reinforced Concrete Bridge Approach, 12 In. (Sys)			196.0
MISCELLANEOUS			
Threaded Tie Bar Assembly, Epoxy Coated (Each)			51
Dense Graded Subbase (Cys)			28
Terminal Joint, Modified (Lft)			53
Surface Seal (LS Item) (Sft)			1,760

- (4) Varies from 25'-3" to 42'-3" @ 4" Increments
- (5) Varies from 9" to 32'-5" @ 1'-4" Increments
- (6) Varies from 8'-0" to 25'-0" @ 4" Increments
- (7) Varies from 2'-11" to 29'-11" @ 4'-0" Increments
- (8) Varies from 4'-9" to 23'-9" @ 4'-9" Increments

Model: Sheet 3 8/17/2017 10:28:40 AM User: kharrison



RECOMMENDED FOR APPROVAL: *Dan Mullaney* 8/16/2017  
DESIGN ENGINEER DATE

DESIGNED: PFC DRAWN: PFC  
CHECKED: RKH CHECKED: DRM

INDIANA DEPARTMENT OF TRANSPORTATION

R.C. BRIDGE APPROACH

HORIZONTAL SCALE	BRIDGE FILE
AS NOTED	41-45-02073B
VERTICAL SCALE	DESIGNATION
AS NOTED	1172245
SURVEY BOOK	SHEETS
ELECTRONIC	72 of 86
CONTRACT	PROJECT
B-36676	1172245

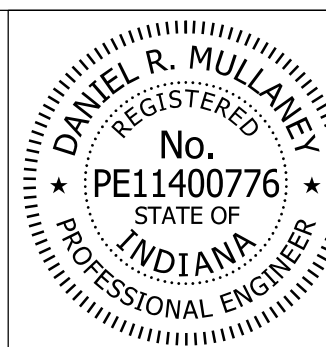


SUMMARY OF BRIDGE QUANTITIES

ITEM	CONCRETE		RAILING, CONCRETE, PS-1	REINF. BARS, EPOXY COATED	RAILING, STEEL, PS-1	THREADED TIE-BAR ASSY. EPOXY COATED	THREADED TIE-BAR ASSY. EPOXY COATED, #5 X 6'-0"	REINF. CONC. BRIDGE APPROACH 12 IN	DENSE GRADED SUBBASE	AGG. FOR END BENT BACKFILL	BRIDGE RAILING PEDESTRIAN FENCE	1" DIA. FIELD DRILLED HOLES IN BEAMS	FIELD DRILLED HOLES IN CONC.	CLEAN STEEL BRIDGE, PARTIAL, QP-2, BRIDGE NO. 1 **	PAINT STEEL BRIDGE, PARTIAL, BRIDGE NO. 1 **	JACKING AND SUPPORTING BEAMS **	STRUCTURAL STEEL **	PIPE, BRIDGE DECK DRAIN SYSTEM **	STUD SHEAR CONNECTORS	PATCHING CONCRETE STRUCTURES	BEARING ASSEMBLY ELASTO-MERIC, TYPE S2-B	BEARING ASSEMBLY ELASTO-MERIC, TYPE S3-B	GRATES, BASINS, AND FITTINGS, CAST IRON	EXP. JOINT TYPE SS	CONCRETE BRIDGE RAILING TRANSITION, TPS-1	REINFORCED CONCRETE MOMENT SLAB, 12 IN.	RETROFITTED TIE BARS	SURFACE SEAL **	
	CLASS C	CLASS C																											
	SUPERSTR	SUBSTR																											
	CYS	CYS	LFT	LBS	LFT	EACH	EACH	SYS	CYS	CYS	LFT	EACH	EACH	LSUM	LSUM	LSUM	LSUM	LSUM	EACH	SFT	EACH	EACH	EACH	LFT	LFT	LFT	EACH	SFT	
Abutment No. 1		22.0		2,552		8				36			184																650
Pier No. 6		70.3		11,361																	24							1,040	
Abutment No. 11		22.0		2,552		8				36			184									12						650	
Superstructure	2,038.0			550,099		5,188	72					96		1	1	1	1	1	17,388	500			36	77				65,230	
South R.C. Bridge Approach				11,833		51		201	29																			1,800	
North R.C. Bridge Approach				11,411		51		196	28																			1,760	
Concrete Bridge Railing			1,790	19,103	1,790						1,786																	10,650	
Northwest Approach	32.9		147	6,663	151																				1	145	162	2530	
Northeast Approach	42.5		166	7,486	171																				1	162	181	2820	
Southwest Approach	23.0		86	4,350	90																				1	91		1600	
Southeast Approach	28.9		122	5,734	127																				1	123		2160	
<b>TOTALS</b>	<b>2,165.3</b>	<b>114.3</b>	<b>2,311</b>	<b>633,144</b>	<b>2,329</b>	<b>5,306</b>	<b>72</b>	<b>397</b>	<b>57</b>	<b>72</b>	<b>1,786</b>	<b>96</b>	<b>368</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>17,388</b>	<b>500</b>	<b>24</b>	<b>24</b>	<b>36</b>	<b>77</b>	<b>4</b>	<b>521</b>	<b>343</b>	<b>90,890</b>	

\*\* Lump Sum Item

Model: Bridge Summary  
8/17/2017 10:28:42 AM User: kharrison



RECOMMENDED FOR APPROVAL: *Dan Mullaney* 8/16/2017 DATE  
DESIGN ENGINEER  
DESIGNED: GAH DRAWN: BTS  
CHECKED: DRM CHECKED: DRM

INDIANA DEPARTMENT OF TRANSPORTATION  
BRIDGE SUMMARY

HORIZONTAL SCALE	BRIDGE FILE
N/A	41-45-02073B
VERTICAL SCALE	DESIGNATION
N/A	1172245
SURVEY BOOK	SHEETS
ELECTRONIC	73 of 86
CONTRACT	PROJECT
B-36676	1172245

PAVEMENT QUANTITIES AND APPROACH TABLE

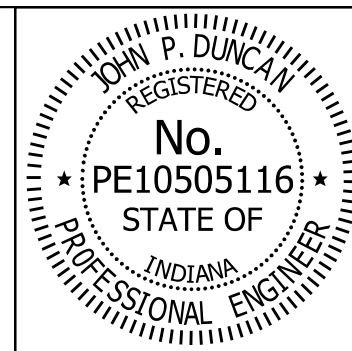
LOCATION	DESCRIPTION (APPROACH TYPE OR CLASS)	WIDTH	LENGTH	RADII	DISTANCE BEYOND R/W LINE	SURFACE BEYOND R/W LINE			GRADE				EXCAVATION		CLEAR ZONE AT DRIVE	HMA FOR APPROACHES				HMA MATERIALS				PCCP, 10"	SUBBASE FOR PCCP	SEAL COAT TYPE 5	HMA MATERIAL FOR:		COMPACTED AGGREGATE FOR BASE NO. 53				COMPACTED AGGREGATE FOR SURFACE NO. 73		REMARKS					
						COMPACTED AGGREGATE BASE	HMA	CONCRETE	1	2	3	4	CUT	FILL		LBS. PER SYD.				LBS. PER SYD.							PRIME COAT	TACK COAT	DEPTH				DEPTH							
																SYS	SYS	SYS	%	%	%	%	CYS						CYS	SYS	SYS	SYS	SYS	SYS		SYS	SYS	SYS	SYS	SYS
						FT	FT	FT	FT	SYS	SYS	SYS	%	%		%	%	CYS	CYS	FT	SYS	SYS	SYS				SYS	SYS	SYS	SYS	SYS	SYS	SYS	SYS		SYS	SYS	SYS	SYS	SYS
165+52 to 166+90																																								
176+36 to 178+70																																								
176+36 to 177+86																																								
<b>TOTALS</b>																																								

TEMPORARY EROSION CONTROL TABLE

STATION	LOCATION		PERIMETER PROTECTION	SEDIMENT TRAP	SEDIMENT BASIN	SLOPE DRAIN	RIPRAP SPLASHPAD	STRAW BALES DITCH CHECK	RIPRAP DITCH CHECK	EXIST. INLET PROTECTION	FISH POOL	REMARKS
	LEFT	RIGHT										
164+74	X											
164+90		X										
165+67	X											
165+84	X											
166+04		X										
177+28	X											
177+36		X										
177+37	X											
178+27	X											
178+30		X										
<b>TOTALS</b>										<b>10</b>		

PAVEMENT MARKINGS SUMMARY OF QUANTITIES

LOCATION	LINE, MULTI-COMPONENT				LINE, MULTI-COMPONENT				TRANSVERSE MARKINGS, MULTI-COMPONENT, STOP LINE		PAVEMENT MESSAGE MARKING, MULTI-COMPONENT, LANE INDICATION, ARROW	PAVEMENT MESSAGE MARKING, MULTI-COMPONENT, WORD "ONLY"	SNOWPLOWABLE RAISED PAVEMENT MARKERS	
	SOLID WHITE	SOLID YELLOW	SOLID WHITE	SOLID YELLOW	BROKEN WHITE	BROKEN YELLOW	BROKEN WHITE	BROKEN YELLOW	SOLID WHITE	SOLID WHITE				
	4 in	4 in	8 in	8 in	4 in	4 in	8 in	8 in	12 in	24 in				
161+00 to 163+40					240									
164+46 to 179+22					1,476									
183+21 to 180+56					265									
179+24 to 164+46					1,478									
164+87 to 178+32	1,468													
179+24 to 164+69	1,345													
164+46 to 166+49	103													
178+26 to 179+22	96													
164+52 to 165+50				99										
164+46 to 165+50				104										
164+46 to 164+46														39
164+46 to 164+67														48
179+22 to 179+22														37
164+74, 164+85, 179+00														3
165+08, 165+18, 178+52														3
164+46 to 179+22		1477												
164+46 to 179+22		1477												
<b>TOTALS</b>	<b>3,012</b>	<b>2,954</b>	<b>203</b>		<b>3,459</b>					<b>124</b>	<b>3</b>	<b>3</b>		



RECOMMENDED FOR APPROVAL *J. Patrick Duncan* 08/16/17  
 DESIGN ENGINEER  
 DESIGNED: MAE DRAWN: JWM  
 CHECKED: LDW CHECKED: MAE

INDIANA DEPARTMENT OF TRANSPORTATION  
 MISCELLANEOUS TABLES

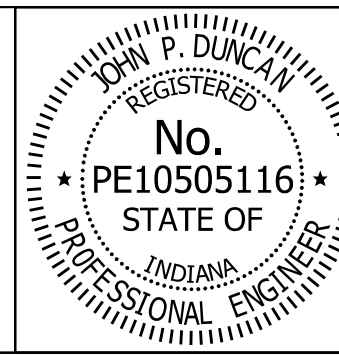
HORIZONTAL SCALE	BRIDGE FILE
N/A	41-45-02073B
VERTICAL SCALE	DESIGNATION
N/A	1172245
SURVEY BOOK	SHEETS
	74 of 86
CONTRACT	PROJECT
B-36676	1172245





STRUCTURE DATA

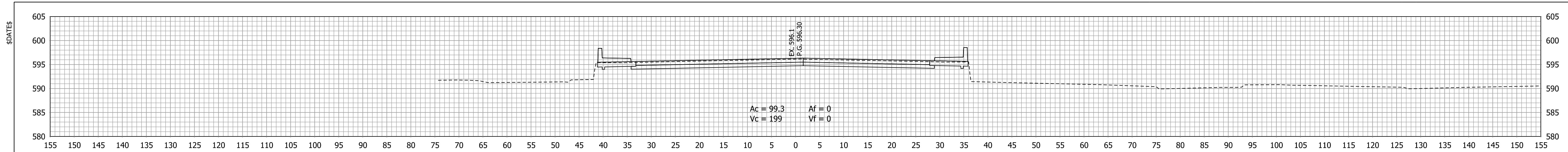
STRUCTURE NUMBER	LOCATION				SIZE IN.	PIPE TYPE	DESCRIPTION MANHOLE, INLET, CATCH BASIN, OR SPECIALTY STRUCTURE AND TYPE	LENGTH VIDEO LFT	INSPECTION LFT	SKEW	FLOW LINE			SERVICE LIFE YRS	SITE DESIGNATION	pH	BACKFILL METHOD	STRUCTURE BACKFILL CYS	TYPE	FLOWABLE BACKFILL CYS	TYPE	GEOTEXTILES SYS	REINFORCEMENT TON	RIPRAP	SCOUR PROTECTION			CONCRETE CLASS A, FOR STR.	VIDEO INSPECTION LFT	PIPE END SECTION EA.	GRATED BOX END SECTION			CONNECT TO STR.	CULVERT ASSET ID	REMARKS	
	STATION	LEFT	RIGHT	CROSS							OFFSET FT	COVER LFT	UP STREAM ELEV.												DOWN STREAM ELEV.	SUMP DEPTH IN.	GEOTEXTILE SYS.				RIPRAP TONS	TYPE	SLOPE				EA.
STRUCTURE NUMBERS ARE IN ACCORDANCE WITH THOSE LISTED IN PLANS EHS-U-69(64), CONTRACT NO. B-8834																																					
169+97		X			27			45	45																								INSPECT AND CLEAN				
170+23	X				27			45	45																								INSPECT AND CLEAN				
170+47	X				27			45	45																								INSPECT AND CLEAN				
170+73	X				27			45	45																								INSPECT AND CLEAN				
170+97	X				27			45	45																								INSPECT AND CLEAN				
171+23	X				27			45	45																								INSPECT AND CLEAN				
172+43	X				27			45	45																								INSPECT AND CLEAN				
172+69	X				27			45	45																								INSPECT AND CLEAN				
172+87	X				27			45	45																								INSPECT AND CLEAN				
173+13	X				27			45	45																								INSPECT AND CLEAN				
173+31	X				27			45	45																								INSPECT AND CLEAN				
173+57	X				27			45	45																								INSPECT AND CLEAN				
173+75	X				27			45	45																								INSPECT AND CLEAN				
174+01	X				27			45	45																								INSPECT AND CLEAN				
174+18	X				27			45	45																								INSPECT AND CLEAN				
174+44	X				27			45	45																								INSPECT AND CLEAN				
174+68	X				27			45	45																								INSPECT AND CLEAN				
174+94	X				27			45	45																								INSPECT AND CLEAN				
175+18	X				27			45	45																								INSPECT AND CLEAN				
175+44	X				27			45	45																								INSPECT AND CLEAN				
175+56	X				27			45	45																								INSPECT AND CLEAN				
175+82	X				27			45	45																								INSPECT AND CLEAN				
175+94	X				27			45	45																								INSPECT AND CLEAN				
176+20	X				27			45	45																								INSPECT AND CLEAN				



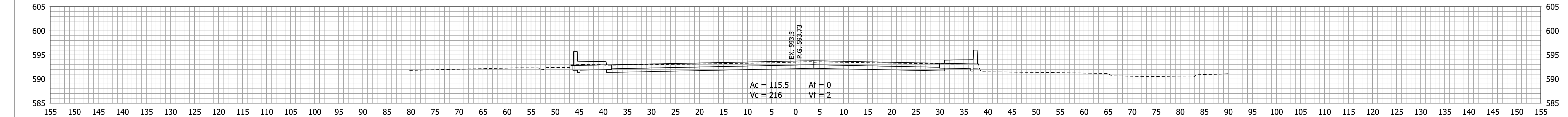
RECOMMENDED FOR APPROVAL *J. Patrick Duncan* 08/16/17  
 DESIGN ENGINEER  
 DESIGNED: MAE DRAWN: JWM  
 CHECKED: LDW CHECKED: MAE

INDIANA DEPARTMENT OF TRANSPORTATION  
 STRUCTURE DATA TABLE

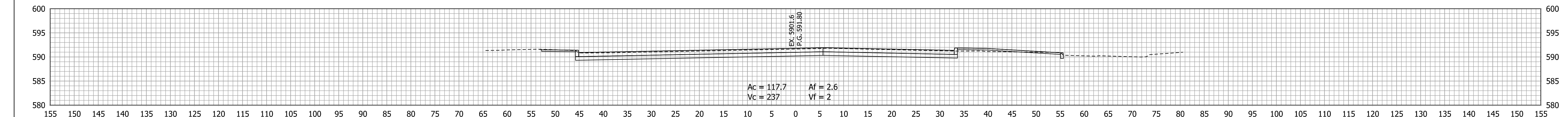
HORIZONTAL SCALE	BRIDGE FILE
N/A	41-45-02073B
VERTICAL SCALE	DESIGNATION
N/A	1172245
SURVEY BOOK	SHEETS
.	77 of 86
CONTRACT	PROJECT
B-36676	1172245



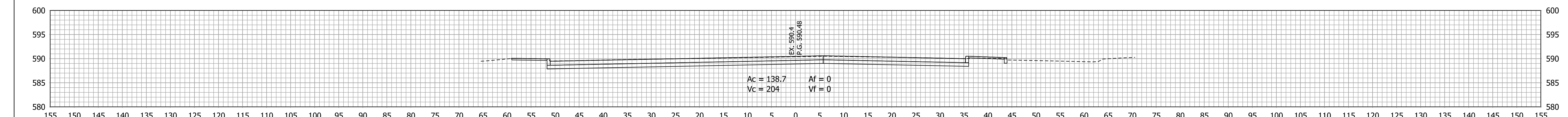
166+50



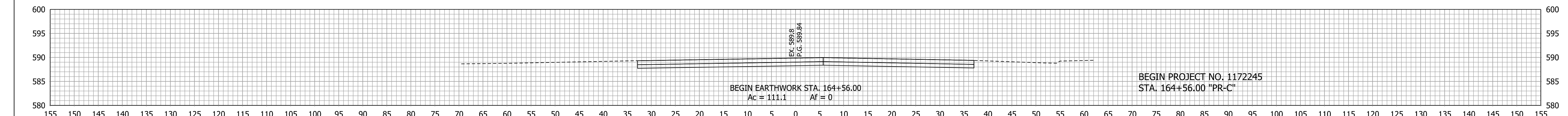
166+00



165+50

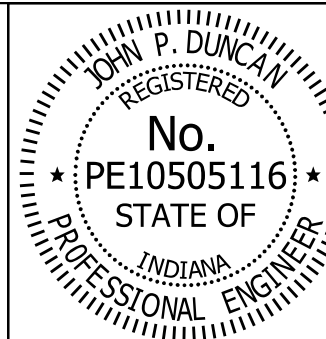


165+00



164+56

\$FILES

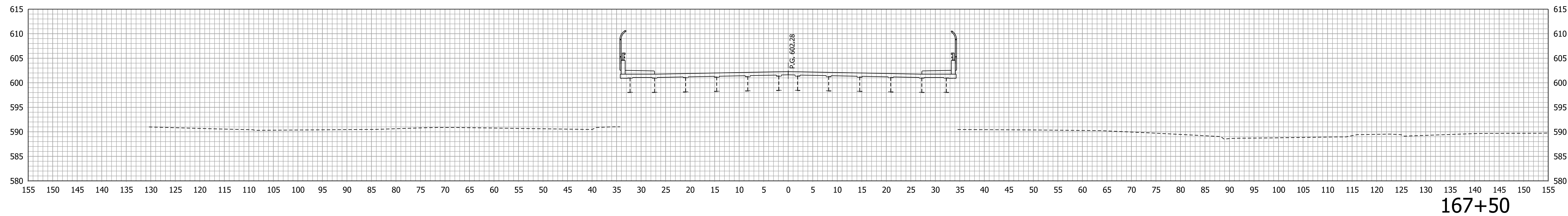
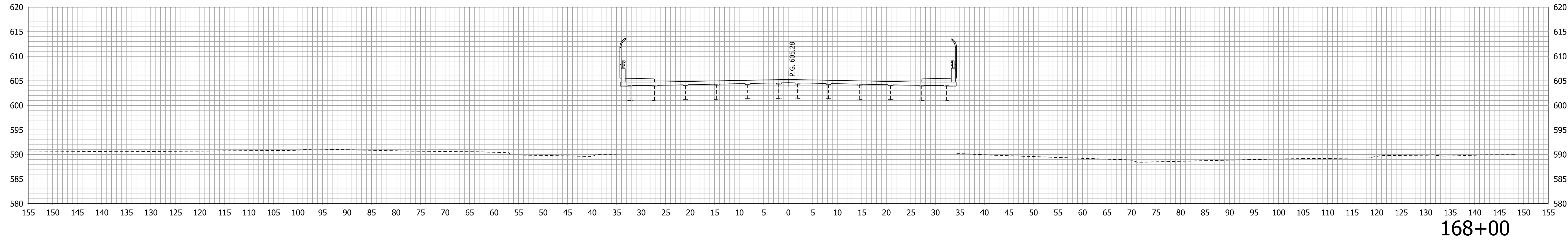


RECOMMENDED FOR APPROVAL *J. Patrick Duncan* 08/16/17 DATE  
 DESIGN ENGINEER  
 DESIGNED: MAE DRAWN: JWM  
 CHECKED: LDW CHECKED: MAE

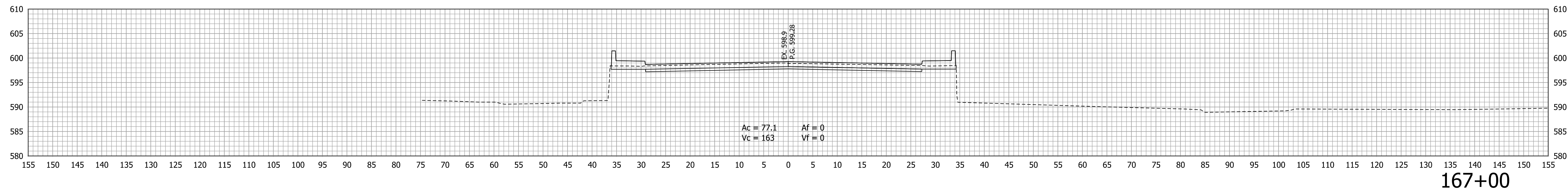
INDIANA DEPARTMENT OF TRANSPORTATION  
 CROSS SECTIONS - LINE "PR-C"

HORIZONTAL SCALE	BRIDGE FILE
1" = 10'	41-45-02073B
VERTICAL SCALE	DESIGNATION
1" = 10'	1172245
SURVEY BOOK	SHEETS
	78 of 86
CONTRACT	PROJECT
B-36676	1172245

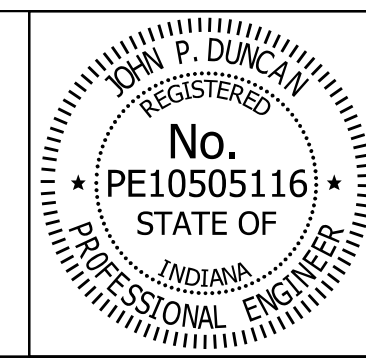
\$DATES



END EARTHWORK STA. 167+35.8  
 Ac = 0      Af = 0  
 Vc = 51     Vf = 0



\$FILES



RECOMMENDED FOR APPROVAL *J. Patrick Duncan* 08/16/17  
 DESIGN ENGINEER DATE

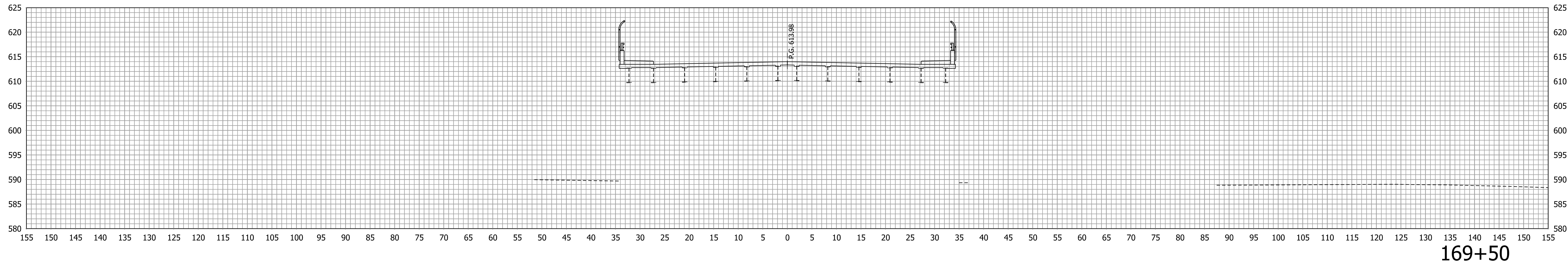
DESIGNED: MAE      DRAWN: JWM  
 CHECKED: LDW      CHECKED: MAE

INDIANA  
 DEPARTMENT OF TRANSPORTATION

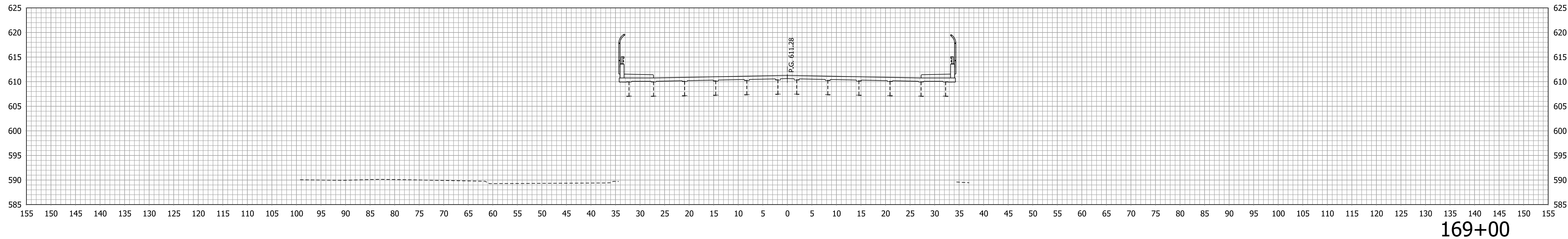
**CROSS SECTIONS - LINE "PR-C"**

HORIZONTAL SCALE 1" = 10'	BRIDGE FILE 41-45-02073B
VERTICAL SCALE 1" = 10'	DESIGNATION 1172245
SURVEY BOOK .	SHEETS 79 of 86
CONTRACT B-36676	PROJECT 1172245

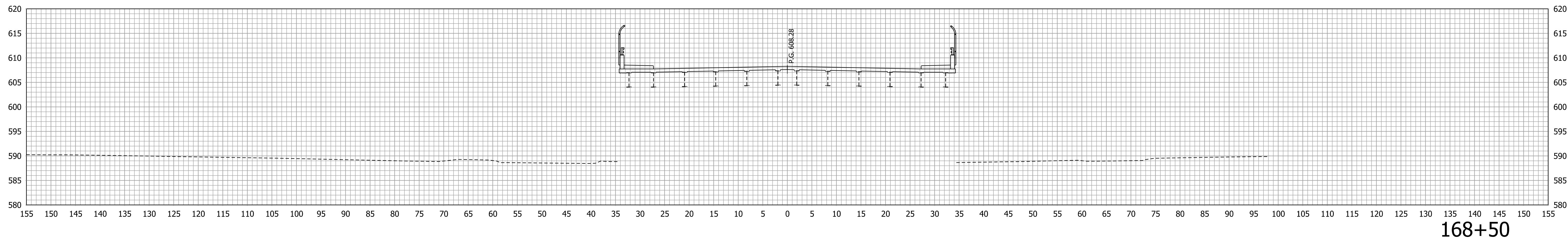
\$DATES



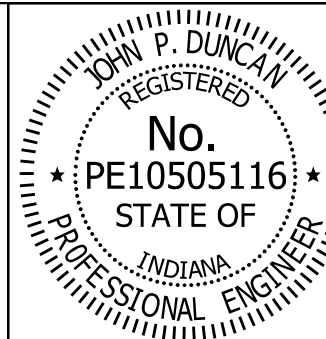
169+50



169+00



168+50



RECOMMENDED FOR APPROVAL *J. Patrick Duncan* 08/16/17  
 DESIGN ENGINEER DATE

DESIGNED: MAE DRAWN: JWM  
 CHECKED: LDW CHECKED: MAE

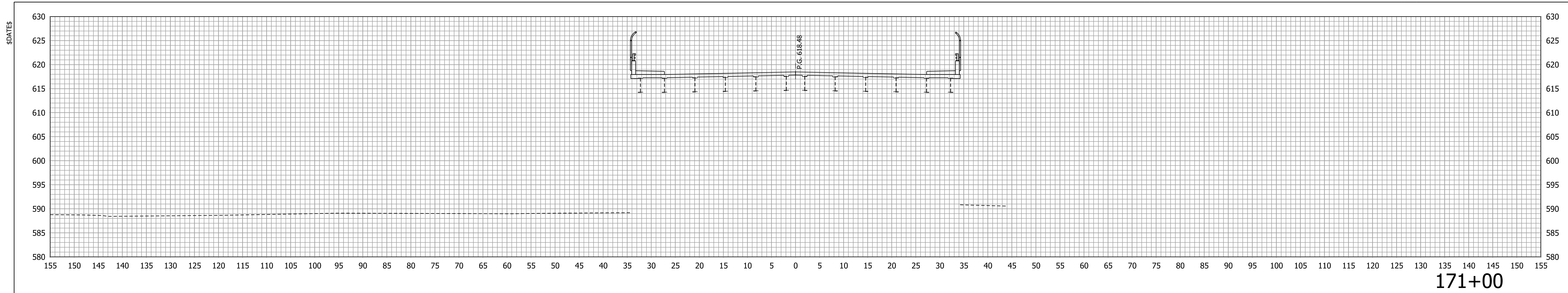
INDIANA  
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS - LINE "PR-C"

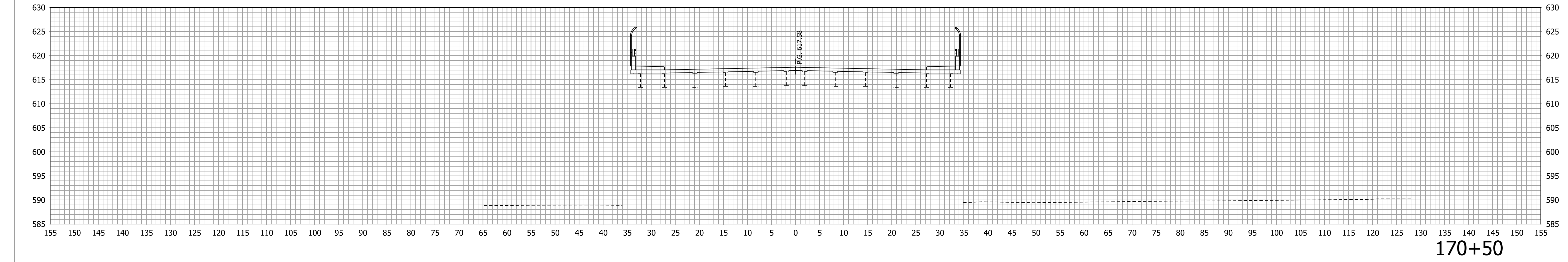
HORIZONTAL SCALE 1" = 10'	BRIDGE FILE 41-45-02073B
VERTICAL SCALE 1" = 10'	DESIGNATION 1172245
SURVEY BOOK .	SHEETS 80 of 86
CONTRACT B-36676	PROJECT 1172245

\$FILES

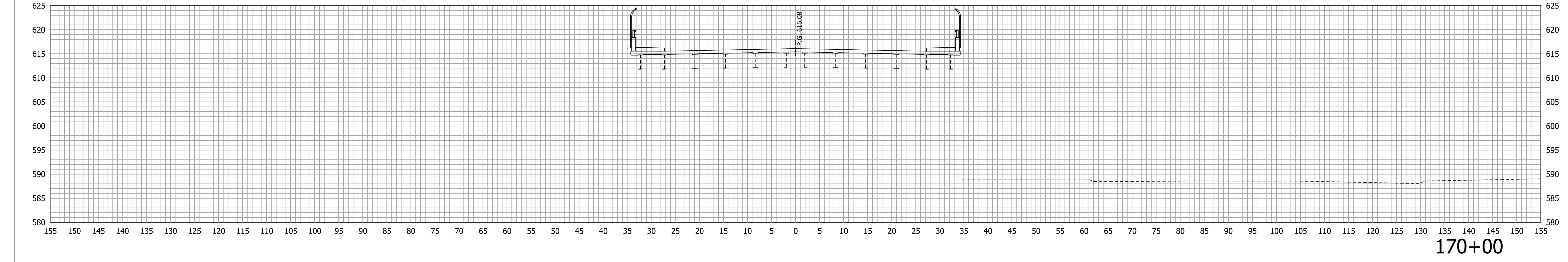




171+00

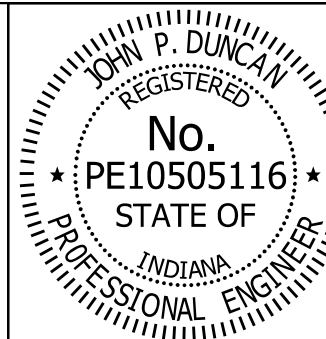


170+50



170+00

\$FILES

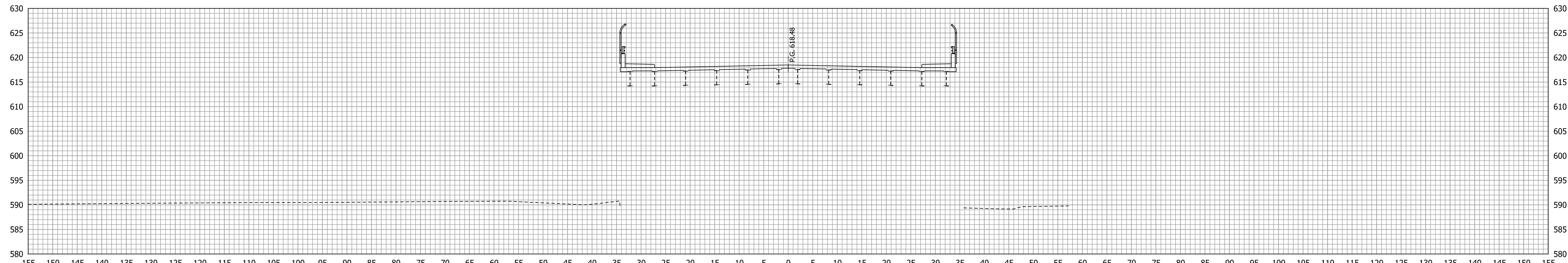


RECOMMENDED FOR APPROVAL *J. Patrick Duncan* 08/16/17  
 DESIGN ENGINEER DATE  
 DESIGNED: MAE DRAWN: JWM  
 CHECKED: LDW CHECKED: MAE

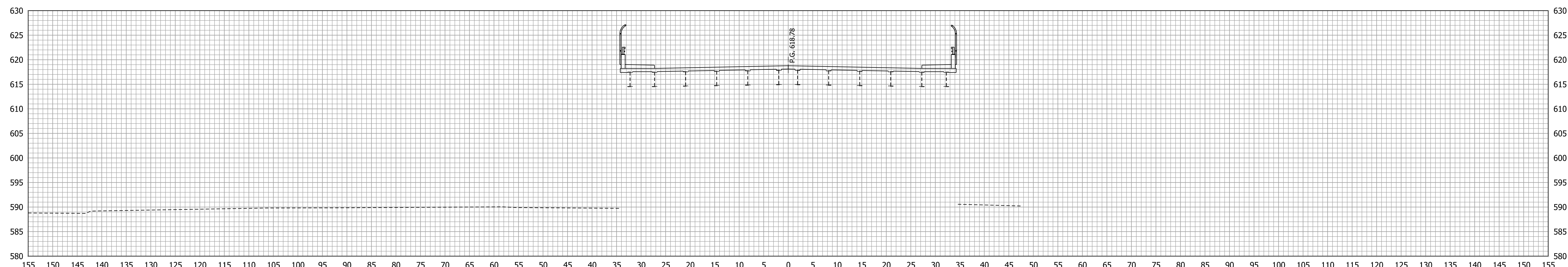
INDIANA  
 DEPARTMENT OF TRANSPORTATION  
 CROSS SECTIONS - LINE "PR-C"

HORIZONTAL SCALE 1" = 10'	BRIDGE FILE 41-45-02073B
VERTICAL SCALE 1" = 10'	DESIGNATION 1172245
SURVEY BOOK	SHEETS
CONTRACT B-36676	81 of 86 PROJECT 1172245

\$DATES

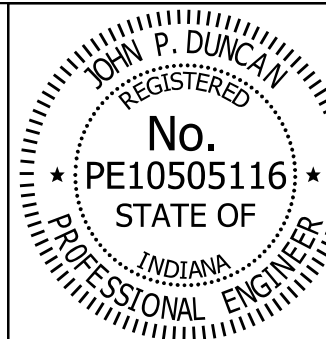


172+00



171+50

\$FILES



RECOMMENDED FOR APPROVAL *J. Patrick Duncan* 08/16/17  
 DESIGN ENGINEER DATE

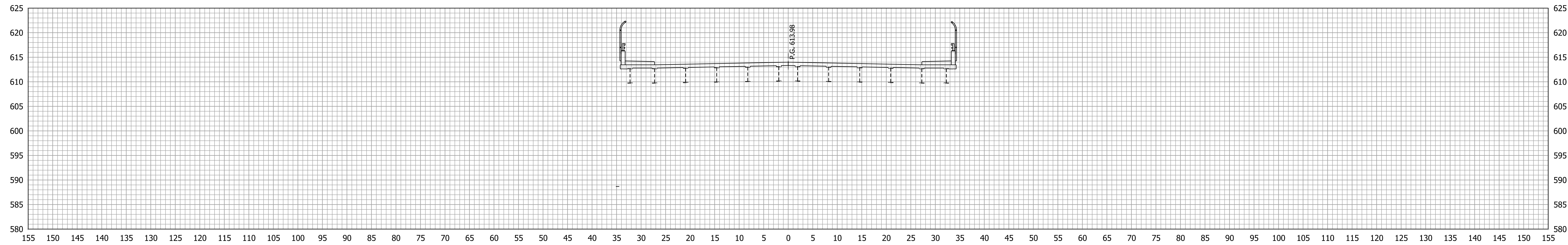
DESIGNED: MAE DRAWN: JWM  
 CHECKED: LDW CHECKED: MAE

INDIANA  
 DEPARTMENT OF TRANSPORTATION

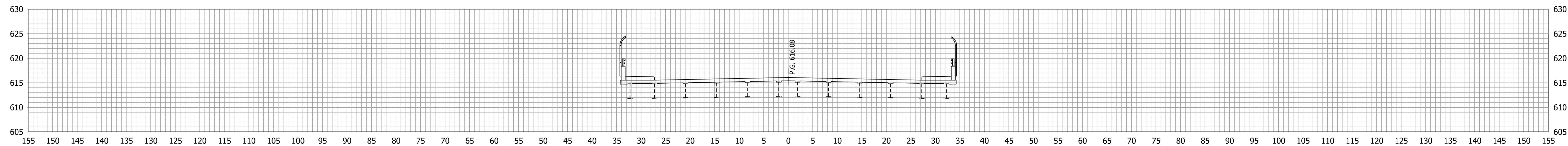
CROSS SECTIONS - LINE "PR-C"

HORIZONTAL SCALE 1" = 10'	BRIDGE FILE 41-45-02073B
VERTICAL SCALE 1" = 10'	DESIGNATION 1172245
SURVEY BOOK .	SHEETS 82 of 86
CONTRACT B-36676	PROJECT 1172245

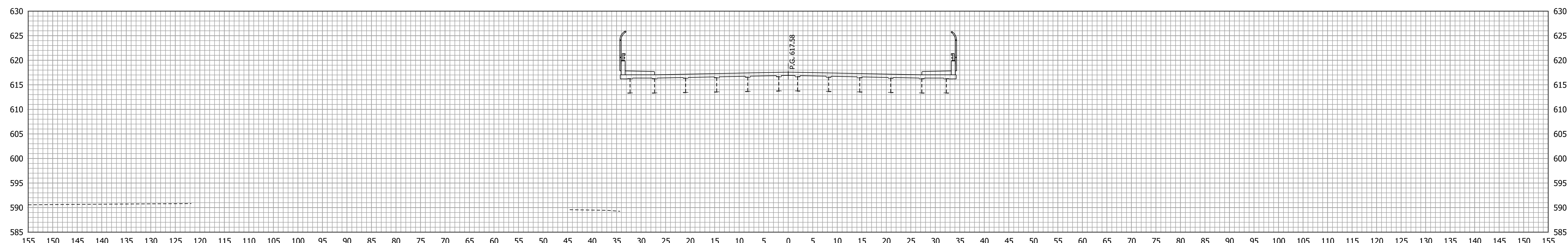
\$DATES



173+50

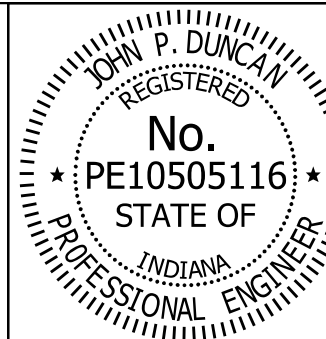


173+00



172+50

\$FILES



RECOMMENDED FOR APPROVAL *J. Patrick Duncan* 08/16/17  
 DESIGN ENGINEER DATE

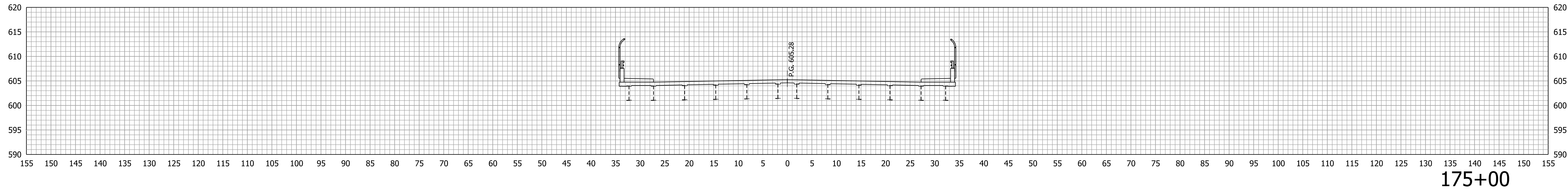
DESIGNED: MAE DRAWN: JWM  
 CHECKED: LDW CHECKED: MAE

INDIANA  
 DEPARTMENT OF TRANSPORTATION

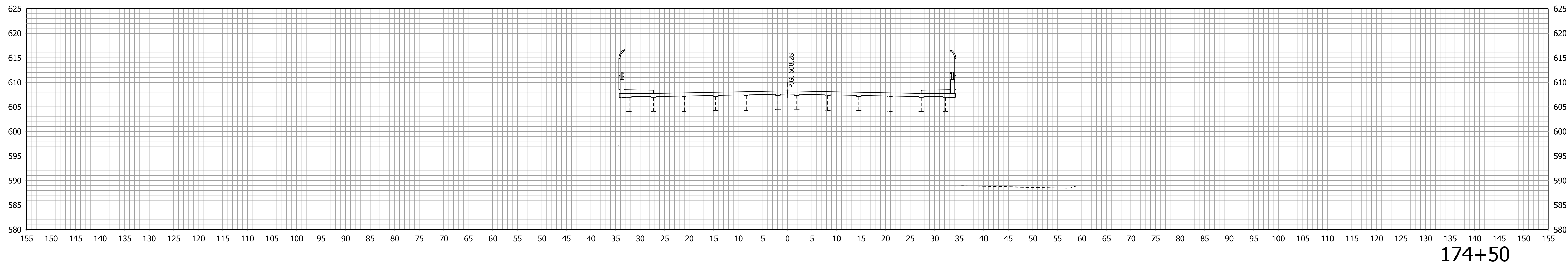
CROSS SECTIONS - LINE "PR-C"

HORIZONTAL SCALE 1" = 10'	BRIDGE FILE 41-45-02073B
VERTICAL SCALE 1" = 10'	DESIGNATION 1172245
SURVEY BOOK B-36676	SHEETS 83 of 86
	PROJECT 1172245

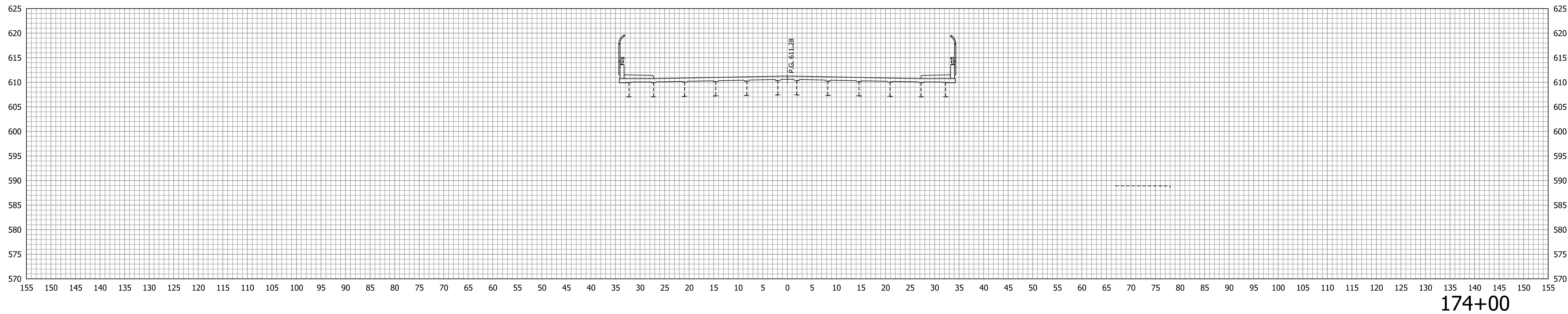
\$DATES



175+00

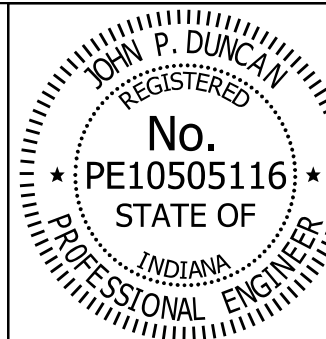


174+50



174+00

\$FILES



RECOMMENDED FOR APPROVAL *J. Patrick Duncan* 08/16/17  
 DESIGN ENGINEER DATE

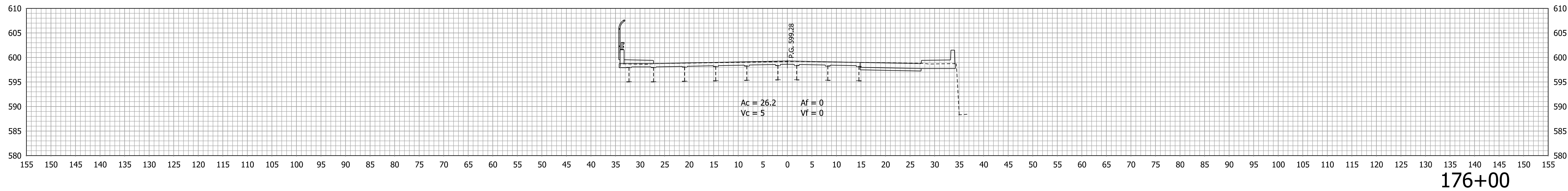
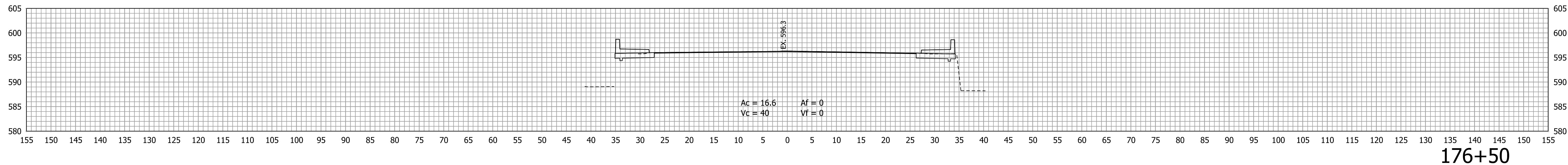
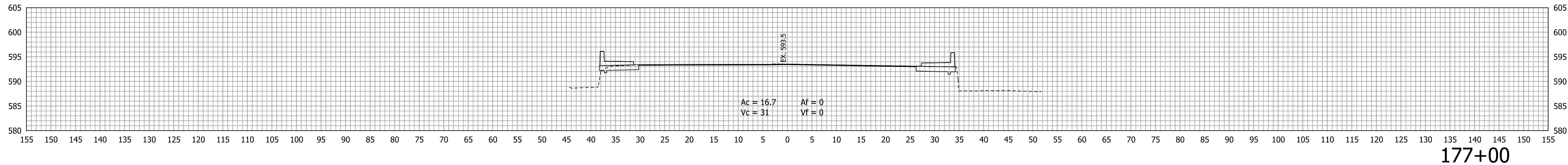
DESIGNED: MAE DRAWN: JWM  
 CHECKED: LDW CHECKED: MAE

INDIANA  
 DEPARTMENT OF TRANSPORTATION

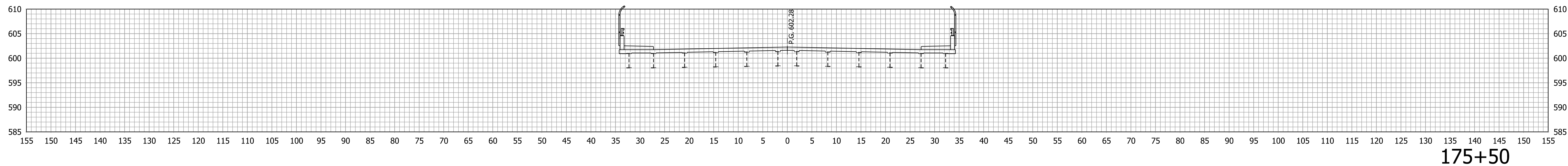
CROSS SECTIONS - LINE "PR-C"

HORIZONTAL SCALE 1" = 10'	BRIDGE FILE 41-45-02073B
VERTICAL SCALE 1" = 10'	DESIGNATION 1172245
SURVEY BOOK -	SHEETS 84 of 86
CONTRACT B-36676	PROJECT 1172245

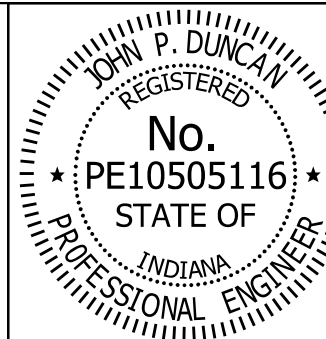
\$DATES



BEGIN EARTHWORK STA. 175+90.2  
 Ac = 0      Af = 0  
 Vc = 0      Vf = 0



\$FILES



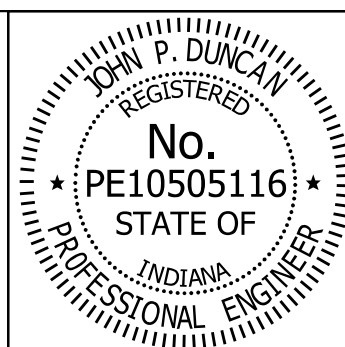
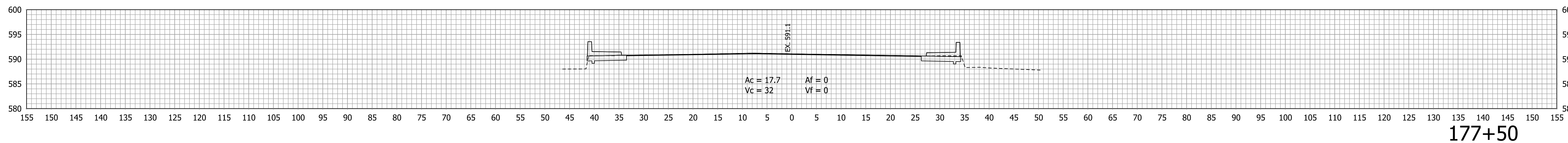
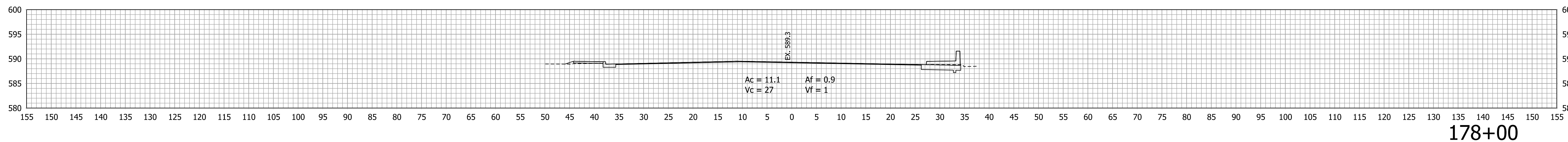
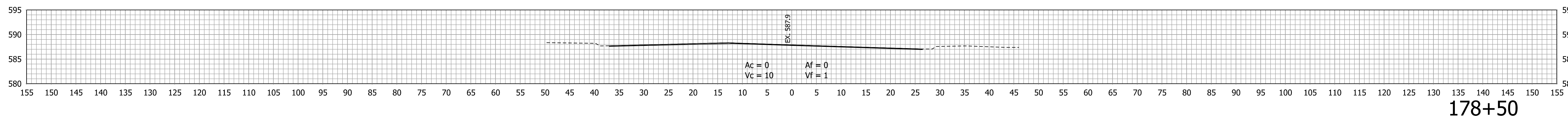
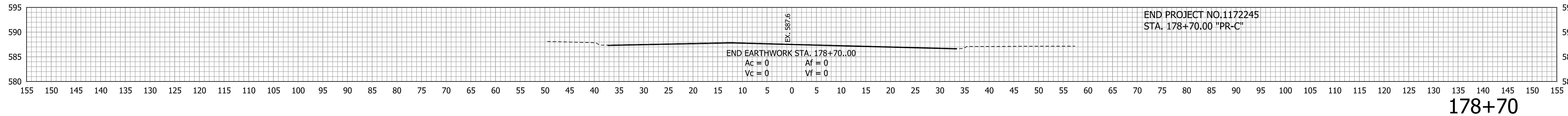
RECOMMENDED FOR APPROVAL *J. Patrick Duncan* 08/16/17  
 DESIGN ENGINEER DATE

DESIGNED: MAE      DRAWN: JWM  
 CHECKED: LDW      CHECKED: MAE

INDIANA  
 DEPARTMENT OF TRANSPORTATION

**CROSS SECTIONS - LINE "PR-C"**

HORIZONTAL SCALE 1" = 10'	BRIDGE FILE 41-45-02073B
VERTICAL SCALE 1" = 10'	DESIGNATION 1172245
SURVEY BOOK	SHEETS
CONTRACT B-36676	85 of 86 PROJECT 1172245



RECOMMENDED FOR APPROVAL *J. Patrick Duncan* 08/16/17  
 DESIGN ENGINEER DATE

DESIGNED: MAE DRAWN: JWM  
 CHECKED: LDW CHECKED: MAE

INDIANA  
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS - LINE "PR-C"

HORIZONTAL SCALE	BRIDGE FILE
1" = 10'	41-45-02073B
VERTICAL SCALE	DESIGNATION
1" = 10'	1172245
SURVEY BOOK	SHEETS
	86 of 86
CONTRACT	PROJECT
B-36676	1172245