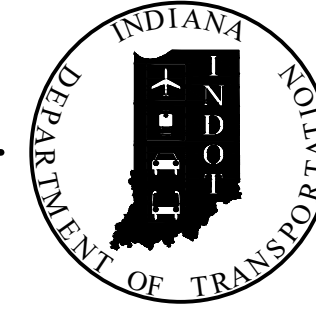


PROJECT	DESIGNATION
1700135	2001600 (SB) & 2001601 (NB)
CONTRACT	BRIDGE FILE
R-41529	I65-021-09939ASBL & I65-021-09940ANBL

INDIANA DEPARTMENT OF TRANSPORTATION



STRUCTURE	TYPE	SPAN AND SKEW	OVER	STATION
I65-021-09939ASBL & I65-021-09940ANBL	TWIN COMPOSITE STEEL BEAM BRIDGES	1 SPAN: 75'-0" SKEW: 31° RT.	BROWNSTOWN ROAD	G STRUCTURE STA.654+25.34 "PR-Q"

KIN PROJECT INFORMATION	
DESIGNATION	PROJECT DESCRIPTION
1600729	Bridge Rehabilitation for Structure I65-017-04222 ENBL
1600733	Bridge Rehabilitation for Structure I65-017-04222 ESBL
1600744	Bridge Rehabilitation for Structure I65-016-04220 ENBL
1600750	Bridge Rehabilitation for Structure I65-016-04220 ESBL
1700135	I65 Roadway Reconstruction (Lead)
2001593	Small Structure Pipe Lining for Structure CV I65-072-26.20
2001594	Small Structure Pipe Lining for Structure CV I65-072-25.05
2001595	Small Structure Pipe Lining for Structure CV I65-010-22.77
2001596	Small Structure Replacement for Structure CV I65-072-25.83
2001597	Small Structure Repair for Structure CV I65-010-22.65
2001598	Small Structure Repair for Structure CV I65-010-19.90
2001599	Small Structure Pipe Lining for Structure CV I65-010-18.35
2001600	Bridge Rehabilitation for Structure I65-021-09939 ASBL
2001601	Bridge Rehabilitation for Structure I65-021-09940 ANBL
2001603	Bridge Rehabilitation for Structure I65-023-04227
2001604	Bridge Rehabilitation for Structure I65-024-04229 BNBL
2001605	Bridge Rehabilitation for Structure I65-024-04229 BSBL
2001607	Bridge Rehabilitation for Structure I65-028-04232 A

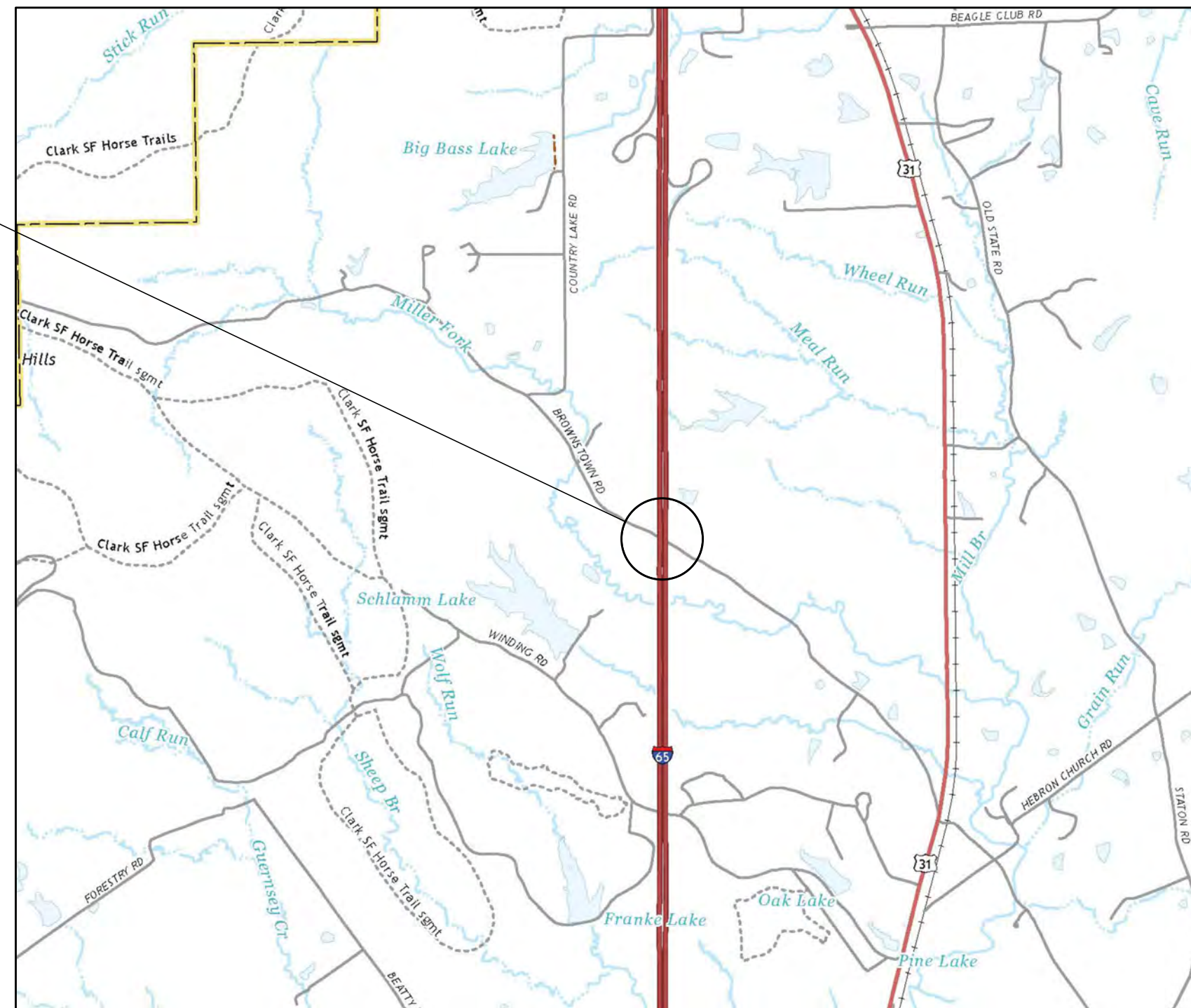
BRIDGE REHABILITATION PLANS

FOR SPANS OVER 20 FEET
ROUTE: I-65 AT: RP 21+24

PROJECT NO. 1700135 P.E.
R/W
1700135 CONST.

NO ADDITIONAL RIGHT-OF-WAY
REQUIRED FOR THIS PROJECT

Bridge Rehabilitation on I-65 over Brownstown Road
Located 2.03 Miles North of SR 160 in
Monroe Township, Clark County (Illinois Grant), Indiana

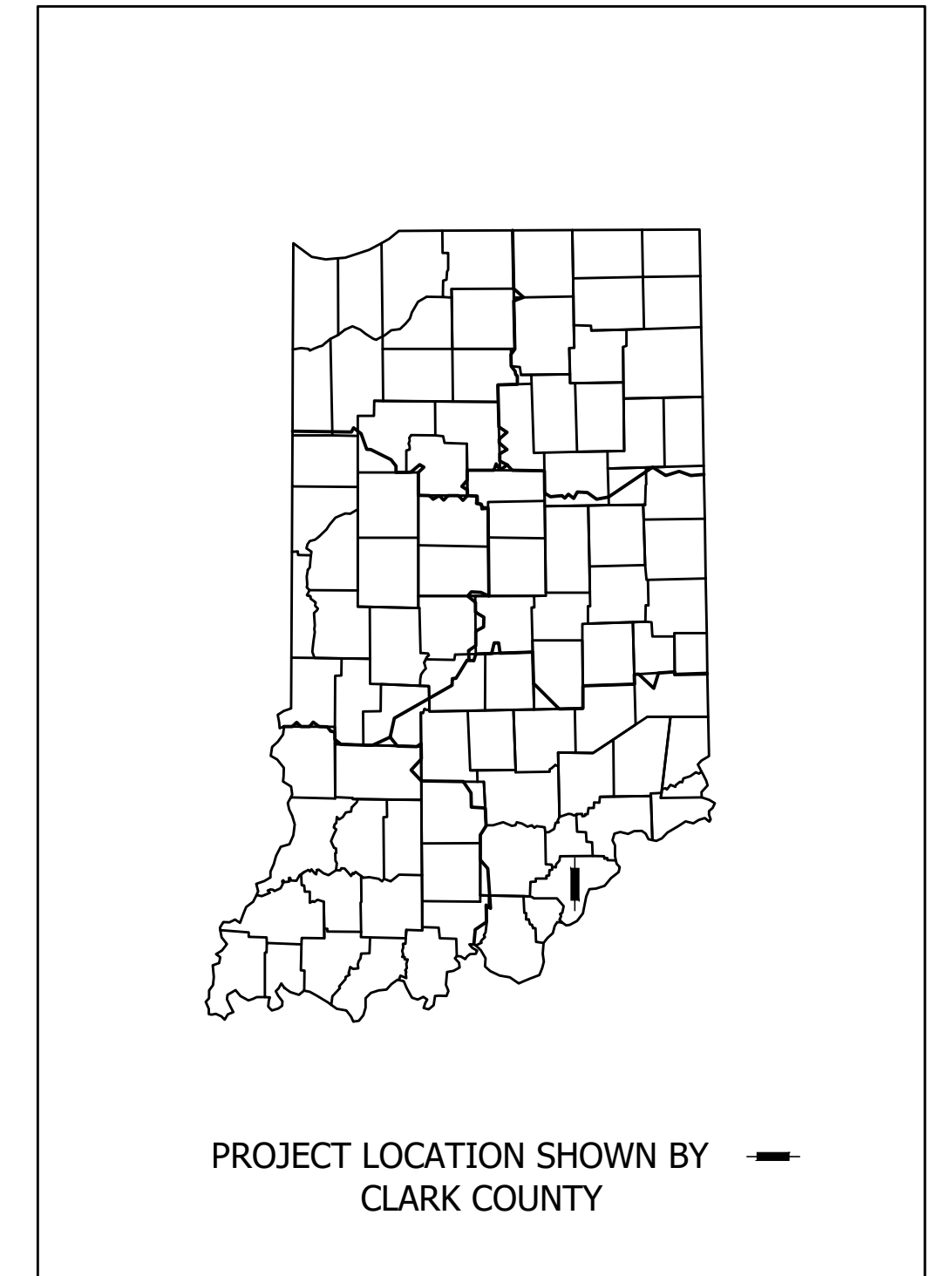


PROJECT LOCATION
Begin Project-Sta.391+00.00 "PR-Q"
End Project-Sta.679+00.00 "Q"
End Project-Sta.679+00.69 "PR-Q"

LOCATION MAP
SCALE: 1:24000

TRAFFIC DATA		
A.A.D.T.	(2023)	45,669 V.P.D.
A.A.D.T.	(2043)	49,452 V.P.D.
D.H.V	(2043)	3,398 V.P.H.
DIRECTIONAL DISTRIBUTION		49.7 %
TRUCKS		32.1 % A.A.D.T. 22.5 % D.H.V.

DESIGN DATA		
DESIGN SPEED	70 M.P.H.	
PROJECT DESIGN CRITERIA	COMPLETE RECONSTRUCTION (FREEWAY)	
FUNCTIONAL CLASSIFICATION	INTERSTATE	
RURAL/URBAN	RURAL	
TERRAIN	LEVEL	
ACCESS CONTROL	FULL	



LATITUDE: 38°34'12" N LONGITUDE: 85°46'44" W

BRIDGE LENGTH:	0.014	MI.
ROADWAY LENGTH:	12.5	MI.
TOTAL LENGTH:	12.8	MI.
MAX. GRADE:	2.92	%

PART 6 OF 15

INDIANA DEPARTMENT OF TRANSPORTATION
STANDARD SPECIFICATIONS DATED 2020
TO BE USED WITH THESE PLANS.

PLANS PREPARED BY:


8320 CRAIG STREET | INDIANAPOLIS, IN 46250
317.849.5832 | F: 317.841.4280 | WWW.B-L-N.COM

PLANS PREPARED BY:	BEAM, LONGEST & NEFF, LLC	(317)849-5832 PHONE NUMBER
CERTIFIED BY:		DATE
APPROVED FOR LETTING:	INDIANA DEPARTMENT OF TRANSPORTATION	DATE

BRIDGE FILE	
I65-021-09939ASBL & I65-021-09940ANBL	
DESIGNATION	
2001600 (SB) & 2001601 (NB)	
DRAWING NO.	SHEETS
CONTRACT	PROJECT
R-41529	1700135

UTILITIES

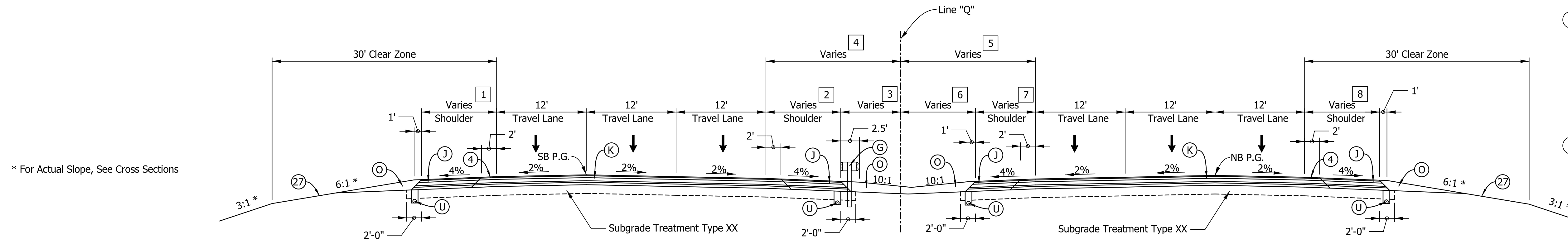
<p>CLARK COUNTY REMC 7810 Hwy. 60, P.O. Box L Sellersburg, IN 47172 Attn: Larry Edwards Ph: 812-248-7504 Email: ledwards@theremc.net</p> <p>CHARTER/ INSIGHT 10168 Linn Rs Suite 120 Louisville, KY 40223 Attn: Kevin Mercer Ph: 502-410-7192 Email: kevin.mercer@charter.com</p> <p>DUKE ENERGY 100 S. Mill Creek Rd. Noblesville, IN 46062 Attn: Cindy Rowland Ph: 317-776-5341 Email: cindy.rowland@duke-energy.com</p> <p>FRONTIER COMMUNICATIONS 24373 Co. Rd. 45 Elkhart, IN 46516 Attn: Robin Branson Ph: 574-875-3789 Email: robin.n.branson@ftr.com</p> <p>HENRYVILLE MEM. SANITATION 104 E. Main St., P.O. Box 62 Henryville, IN 47126 Attn: Doug Dunlevy Ph: 812-294-1070 Email: HenryvilleSewer@gmail.com</p> <p>INTELLIGENT FIBER (IFN) 722 N. High School Rd. Indianapolis, IN 46214 Attn: Shawn Wright Ph: 317-777-7119 Email: swright@intelligentfiber.com</p>	<p>JACKSON COUNTY REMC & FIBER 274 E. Base Rd. Brownstown, IN 47220 Attn: Lance Adams Ph: 812-358-4458 Email: Ladams@jacksonremc.com</p> <p>MCI - VERIZON 720 West Henry St. Indianapolis, IN 46225 Attn: Ron Kocienski Ph: 518-424-3950 Email: ronald.kocienski@verizon.com</p> <p>MIDWEST NATURAL GAS 1080 W. Hospital Rd., P.O. Box 450 Paoli, IN 47454 Attn: Phil Ross Ph: 812-723-2151 Email: phil_r@indiananatural.com</p> <p>RURAL MEM. WATER CORP OF CLARK CO 301 S. Ferguson St. Henryville, IN 47126 Attn: Matt Shields Ph: 812-294-1481 Email: rmwchv@cwgo.com</p> <p>SCOTTSBURG WATER DEPT. 2 E. McClain Ave. Scottsburg, IN 47102 Attn: Todd Carter Ph: 812-595-0670 Email: ftcarter33@gmail.com</p> <p>STUCKER FORK WATER UTILITY 2260 N. Hwy 31 Austin, IN 47170 Attn: Randy Needler Ph: 812-794-0650 Email: sfork1@c3bb.com</p>	<p>ZAYO BANDWIDTH COMMUNICATIONS 9206 Castlegate Dr. Indianapolis, IN 46256 Attn: Waylon Higgins Ph: 765-341-1199 Email: waylon.higgins@zayo.com</p>
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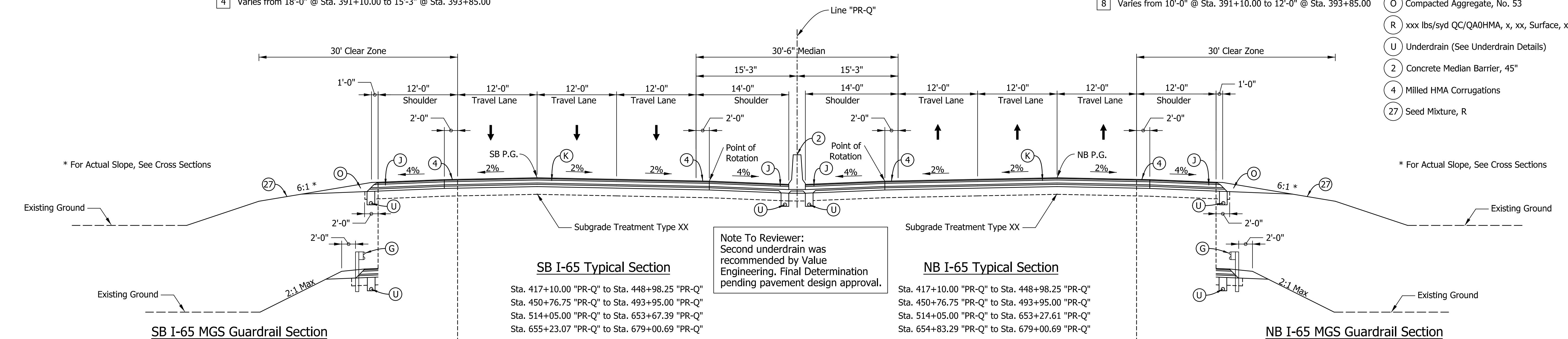
SHEET NO.	DATE	REVISED

INDEX		
SHEET NO.	SHEET DESIGNATION	SUBJECT
1		TITLE SHEET
2		INDEX SHEET
3		TYPICAL SECTIONS
4 - 6		MAINTENANCE OF TRAFFIC
7 - 8		PLAN & PROFILE - LINE "PR-Q"
9	S1	LAYOUT - LINE "PR-Q"
10 - 13	S2 - S5	GENERAL PLAN
14 - 15	S6 - S7	RETAINING WALL DETAILS
16 - 19	S8 - S11	BENT NO.1 DETAILS
20 - 23	S12 - S15	BENT NO.2 DETAILS
24		BRIDGE SUMMARY OF QUANTITIES

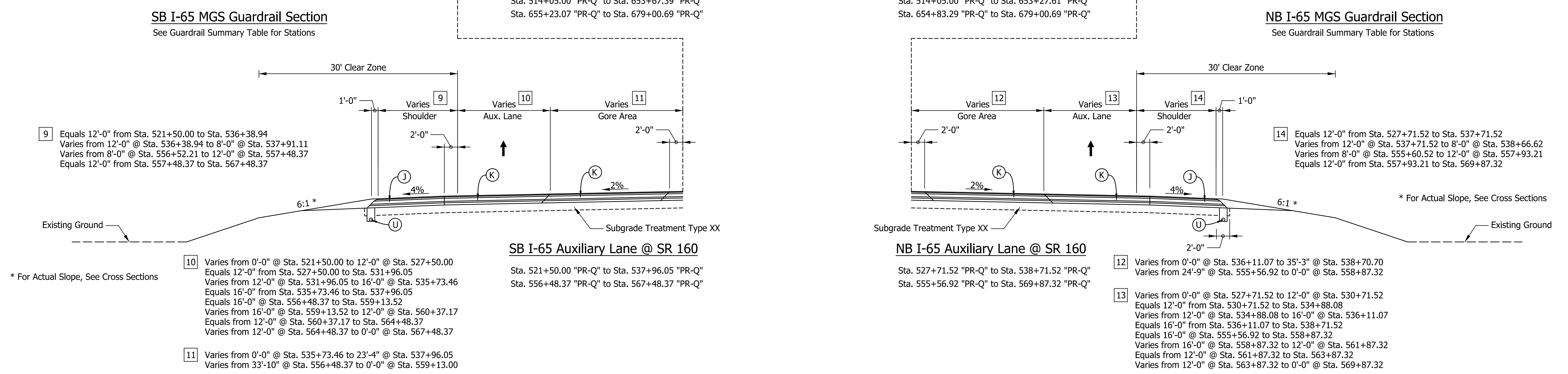
- LEGEND**
- (K) I-65 (Travel Lanes, Aux. Lanes, Gore Areas)
Full-Depth HMA Pavement consisting of
xxx lbs/syd QC/QA-HMA, x, xx, Surface x.x mm, on
xxx lbs/syd QC/QA-HMA, x, xx, Intermediate x.x mm, on
xxx lbs/syd QC/QA-HMA, x, xx, Base x.x mm, on
xxx lbs/syd QC/QA-HMA, x, xx, Intermediate x.x mm, on
X" Compacted Aggregate, No. 53, Separation Layer, on
Geotextile for Pavement, Type XX on
Subgrade Treatment, Type XX
 - (J) I-65 (Shoulders)
Full-Depth HMA Pavement consisting of
xxx lbs/syd QC/QA-HMA, x, xx, Surface x.x mm, on
xxx lbs/syd QC/QA-HMA, x, xx, Intermediate x.x mm, on
xxx lbs/syd QC/QA-HMA, x, xx, Base x.x mm, on
xxx lbs/syd QC/QA-HMA, x, xx, Intermediate x.x mm, on
X" Compacted Aggregate, No. 53, Separation Layer, on
Geotextile for Pavement, Type XX on
Subgrade Treatment, Type XX
 - (G) MGS W-Beam Guardrail
 - (M) Milling, Asphalt, X.X"
 - (O) Compacted Aggregate, No. 53
 - (R) xxx lbs/syd QC/QA0HMA, x, xx, Surface, x.x mm
 - (U) Underdrain (See Underdrain Details)
 - (2) Concrete Median Barrier, 45"
 - (4) Milled HMA Corrugations
 - (27) Seed Mixture, R



- 1 Varies from 10'-0" @ Sta. 391+10.00 to 12'-0" @ Sta. 393+85.00
- 2 Varies from 10'-0" @ Sta. 391+10.00 to 14'-0" @ Sta. 393+85.00
- 3 Varies from 8'-0" @ Sta. 391+10.00 to 1'-3" @ Sta. 393+85.00
- 4 Varies from 18'-0" @ Sta. 391+10.00 to 15'-3" @ Sta. 393+85.00
- 5 Varies from 18'-0" @ Sta. 391+10.00 to 15'-3" @ Sta. 393+85.00
- 6 Varies from 10'-0" @ Sta. 391+10.00 to 1'-3" @ Sta. 393+85.00
- 7 Varies from 8'-0" @ Sta. 391+10.00 to 14'-0" @ Sta. 393+85.00
- 8 Varies from 10'-0" @ Sta. 391+10.00 to 12'-0" @ Sta. 393+85.00



Note To Reviewer:
Second underdrain was recommended by Value Engineering. Final Determination pending pavement design approval.



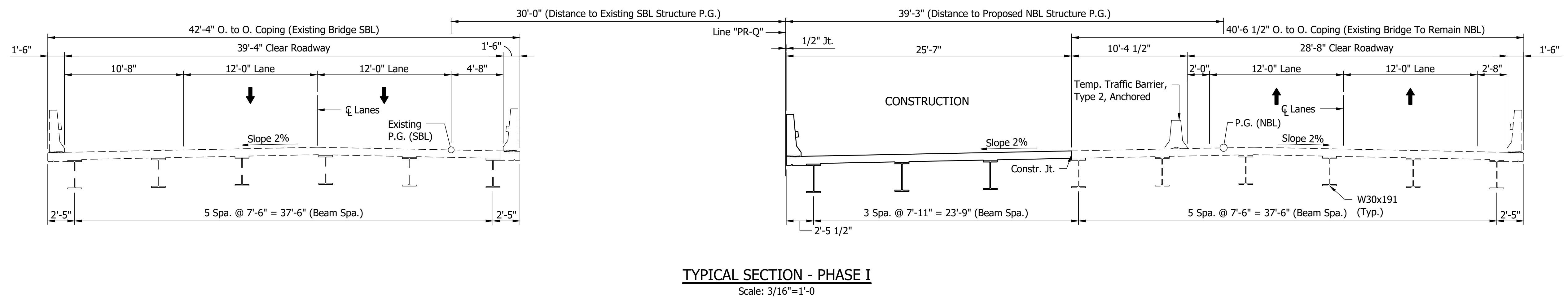
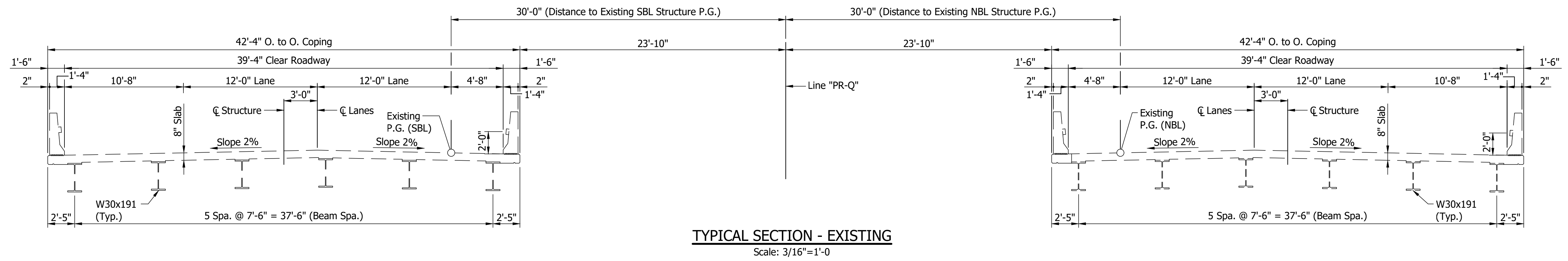
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FOR INFORMATION ONLY

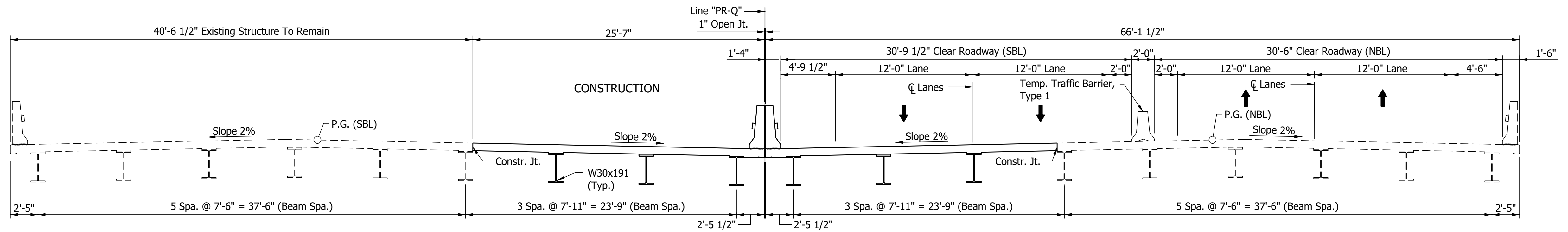
RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
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CHECKED: DJG	CHECKED: DJG	

INDIANA DEPARTMENT OF TRANSPORTATION	
TYPICAL CROSS SECTIONS	

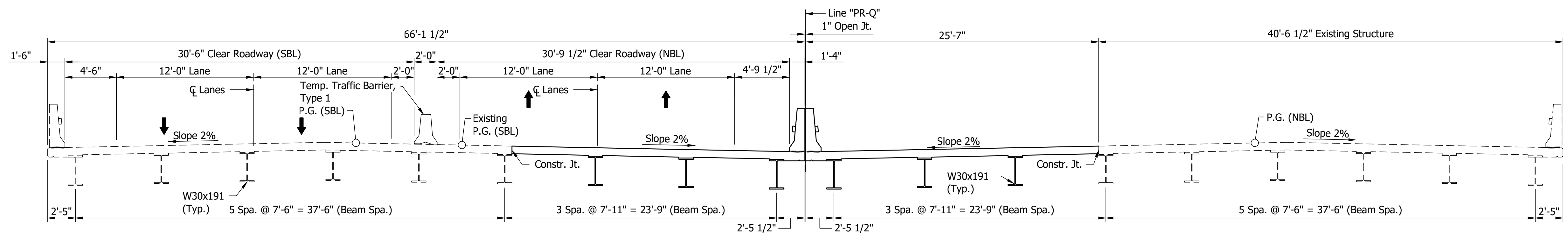
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1/8" = 1'-0"	N/A
VERTICAL SCALE	DESIGNATION
1/8" = 1'-0"	1700135
SURVEY BOOK	SHEETS
Electronic	3 of 24
CONTRACT	PROJECT
R-41529	1700135



	RECOMMENDED FOR APPROVAL _____	DESIGN ENGINEER _____ DATE _____	INDIANA DEPARTMENT OF TRANSPORTATION	HORIZONTAL SCALE 3/16" = 1'-0"	BRIDGE FILE 165-021-09939ASBL & 165-021-09940ANBL
	DESIGNED: RTW	DRAWN: NW	MAINTENANCE OF TRAFFIC	VERTICAL SCALE 3/16" = 1'-0"	DESIGNATION 2001600 (SB) & 2001601 (NB)
	CHECKED: APL	CHECKED: RTW		DRAWING NO.	SHEETS 4 of 24
				CONTRACT R-41529	PROJECT 1700135



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



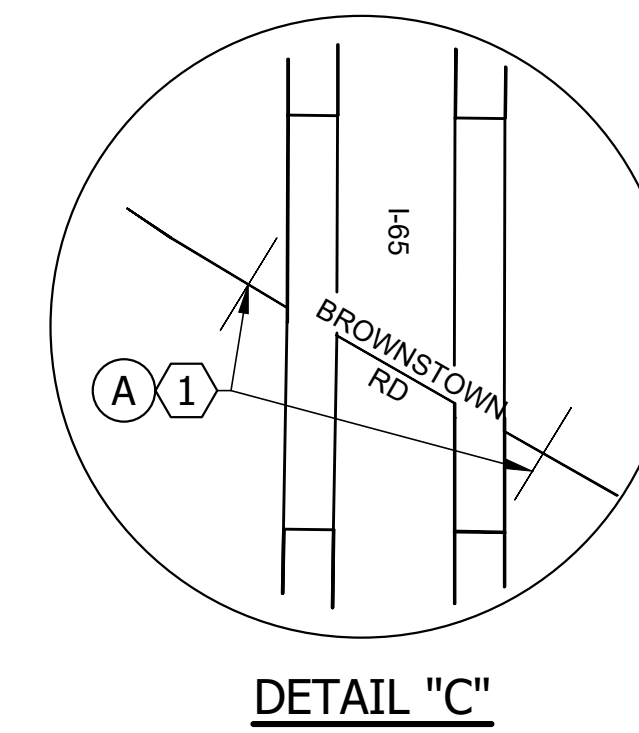
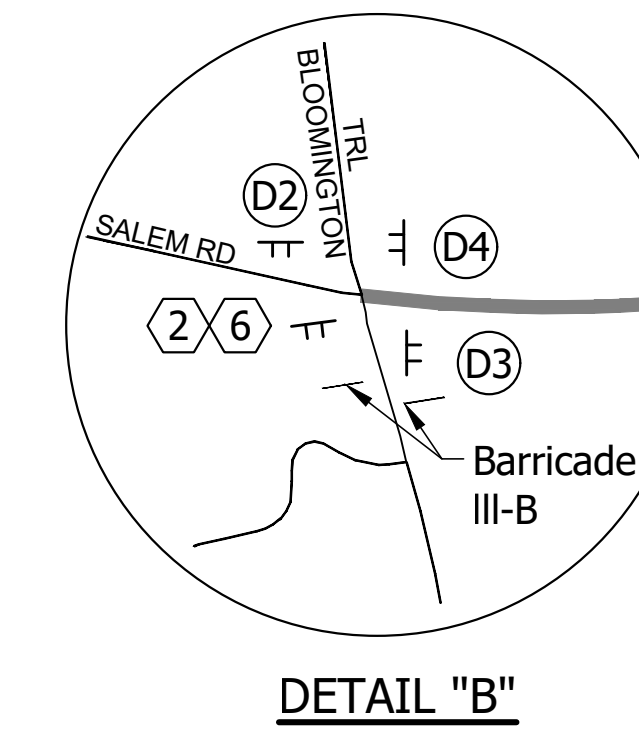
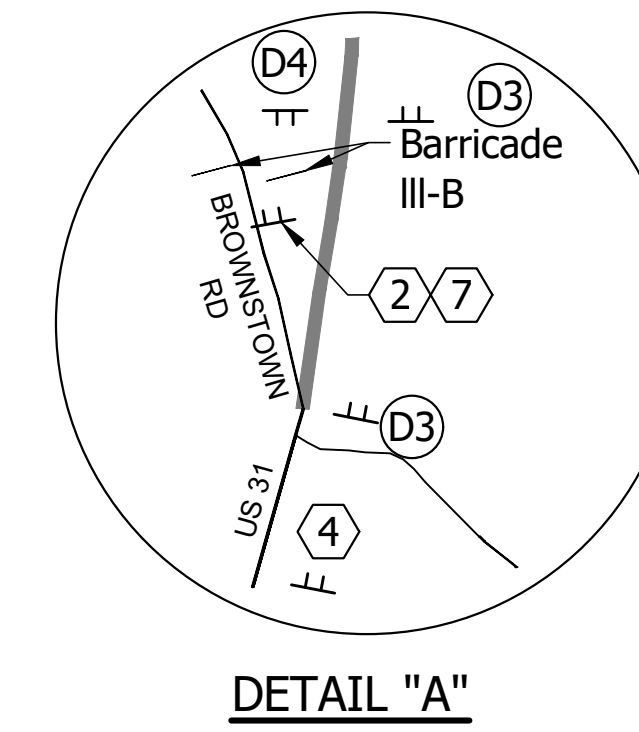
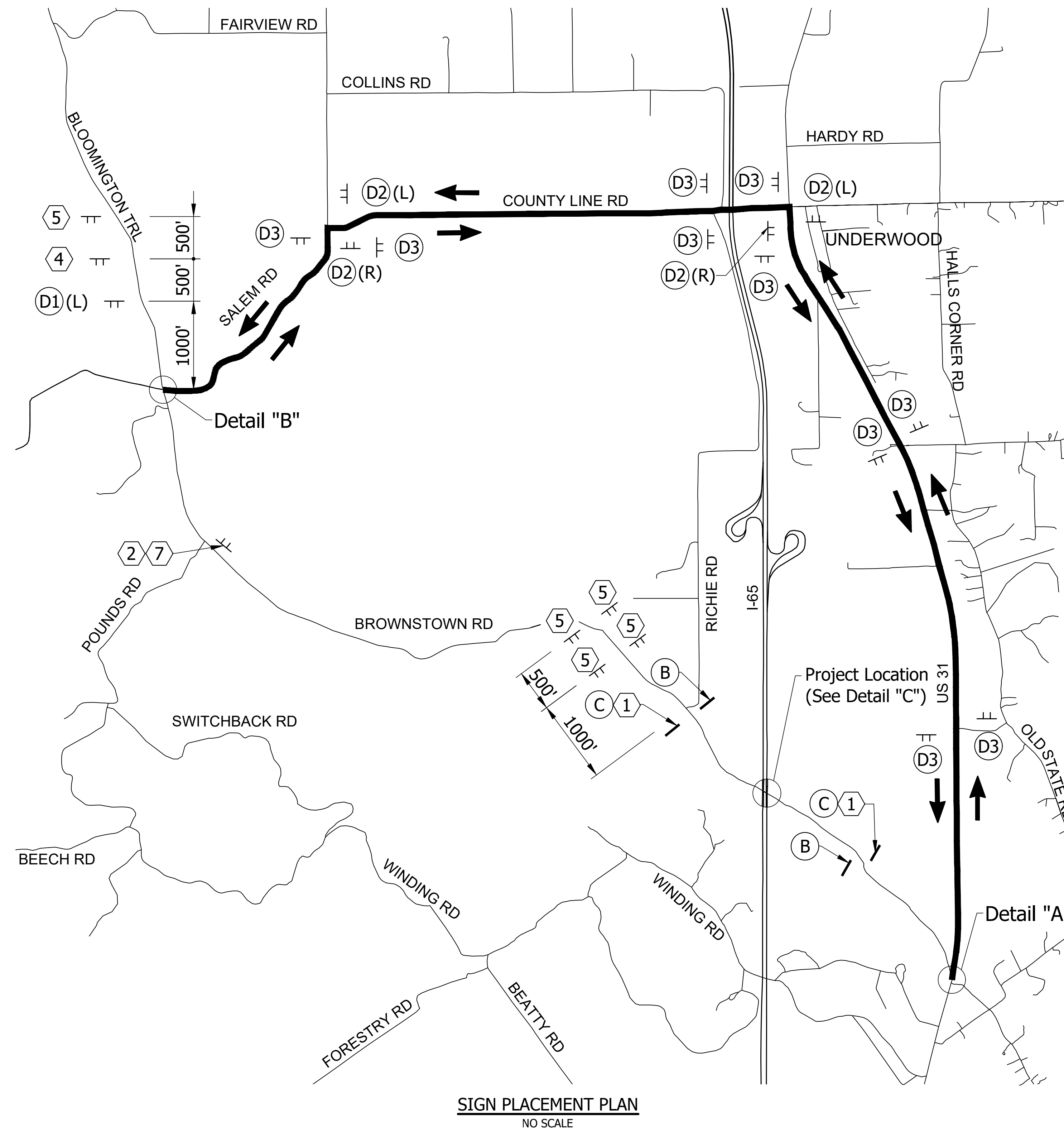
TYPICAL SECTION - PHASE III
Scale: 3/16"=1'-0"

RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: RTW	DRAWN: NW	
CHECKED: APL	CHECKED: RTW	

INDIANA
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC

HORIZONTAL SCALE	BRIDGE FILE
3/16" = 1'-0"	I65-021-09939ASBL & I65-021-09940ANBL
VERTICAL SCALE	DESIGNATION
3/16" = 1'-0"	2001600 (SB) & 2001601 (NB)
DRAWING NO.	SHEETS
	5 of 24
CONTRACT	PROJECT
R-41529	1700135



LEGEND

- (A) Barricade Type III-A & Road Closure Sign Assembly
 - (B) Barricade Type III-B
 - (C) Barricade Type III-B & Road Closure Sign Assembly
 - (D) XM4-8 Detour Route Marker Assembly
 1. Advance Turn
 2. Directional
 3. Confirming
 4. End
- Detour Route For Brownstown Rd.

CONSTRUCTION SIGNS TYPE "A"

- (1) R11-2 Road Closed
- (2) R11-3 Road Closed xx Miles Ahead Local Traffic Only with Route Marker
- (3) R11-4 Road Closed To Thru Traffic
- (4) XW20-2 Detour Ahead
- (5) XW20-3 Road Closed Ahead

CONSTRUCTION SIGNS TYPE "B"

- (6) XM4-10(L) Detour
- (7) XM4-10(R) Detour

QUANTITY SUMMARY TABLE

ITEM	QUANTITY
Construction Sign, A	EA
Construction Sign, B	EA
Barricade, Type III-A	LFT
Barricade, Type III-B	LFT
Detour Route Marker Assembly	EA
Road Closure Sign Assembly	EA

Note:
Countyline Road and Brownstown Road shall not be closed at the same time.

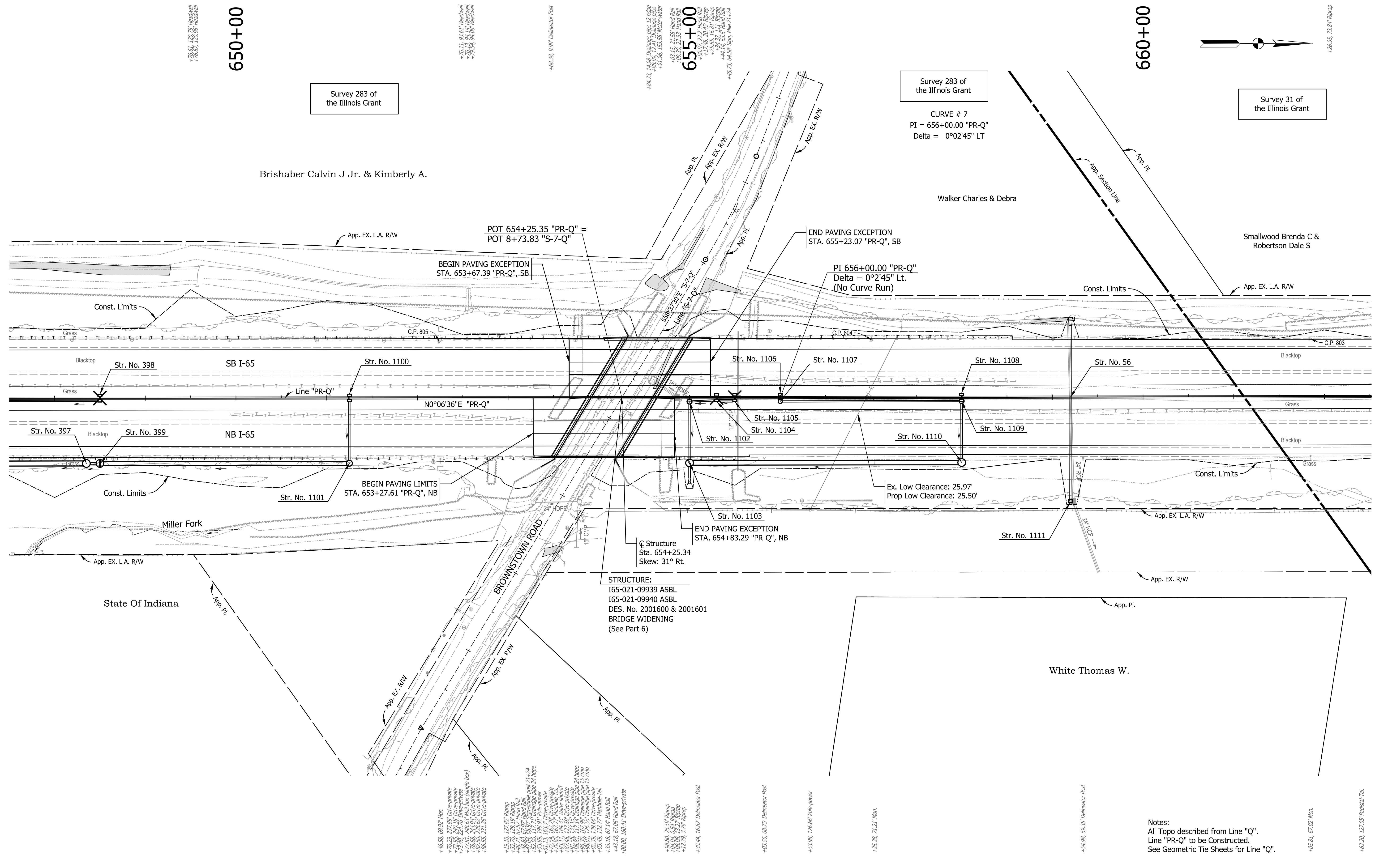
RECOMMENDED FOR APPROVAL _____	DESIGN ENGINEER _____	DATE _____
DESIGNED: RTW	DRAWN: NW	
CHECKED: APL	CHECKED: RTW	

INDIANA
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC
DETOUR MAP

HORIZONTAL SCALE	BRIDGE FILE
N/A	I65-021-09939ASBL & I65-021-09940ANBL
VERTICAL SCALE	DESIGNATION
N/A	2001600 (SB) & 2001601 (NB)
DRAWING NO.	SHEETS
	6 of 24
CONTRACT	PROJECT
R-41529	1700135

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STRUCTURE:
 165-021-09939 ASBL
 165-021-09940 ASBL
 DES. No. 2001600 & 2001601
 BRIDGE WIDENING
 (See Part 6)

Notes:
 All Topo described from Line "Q".
 Line "PR-Q" to be Constructed.
 See Geometric Tie Sheets for Line "Q".

<p>805</p> <p>Guardrail Post AZ 332° 7.90' AZ 282° 3.88' Guardrail Post</p> <p>59°18'S</p> <p>Guardrail Post AZ 199° 10.30' Guardrail Post</p> <p>LINE "Q" STA. 702+45.35 OFFSET 59.33 LT</p>	<p>804</p> <p>Guardrail Post AZ 342° 8.99'</p> <p>Guardrail Post AZ 215° 4.83'</p> <p>59°18'S</p> <p>Guardrail Post AZ 189° 16.81' Guardrail Post</p> <p>LINE "Q" STA. 707+22.06 OFFSET 60.84 LT</p>	<p>803</p> <p>Guardrail Post AZ 110° 84.15'</p> <p>59°18'S</p> <p>Guardrail Post AZ 66° 86.30' Guardrail Post</p> <p>Guardrail Post AZ 88° 79.08' Guardrail Post</p> <p>LINE "Q" STA. 712+05.79 OFFSET 62.02 LT</p>
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FOR INFORMATION ONLY

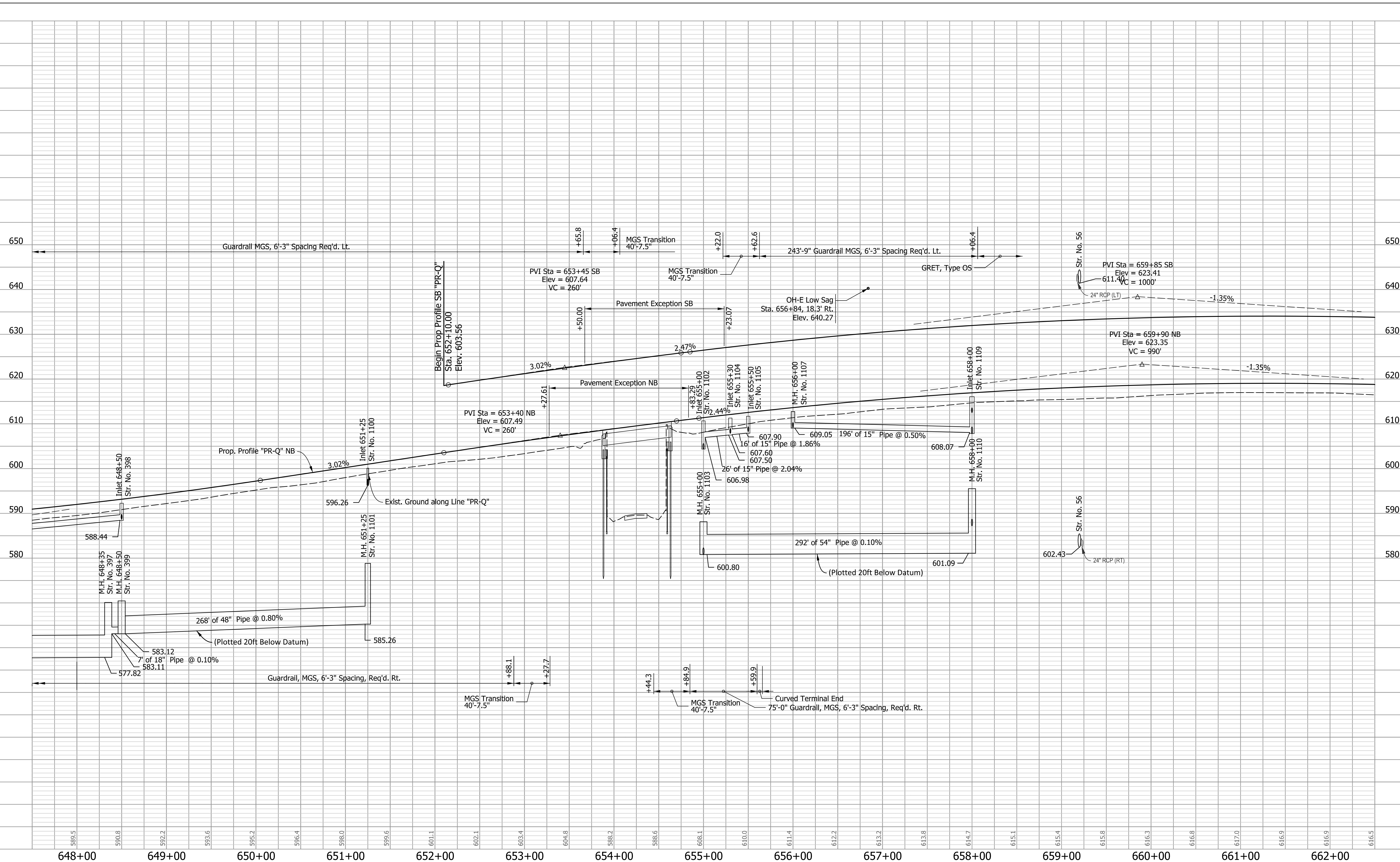
RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: AMD	DRAWN: JJP	
CHECKED: DJG	CHECKED: DJG	

INDIANA
DEPARTMENT OF TRANSPORTATION

PLAN
STA. 647+50.00 TO STA. 662+50.00

HORIZONTAL SCALE	BRIDGE FILE
1" = 50'	N/A
VERTICAL SCALE	DESIGNATION
N.A.	1700135
SURVEY BOOK	SHEETS
Electronic	7 of 24
CONTRACT	PROJECT
R-41529	1700135

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FOR INFORMATION ONLY

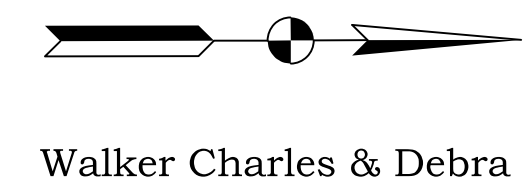
RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: AMD	DRAWN: JJP	
CHECKED: DJG	CHECKED: DJG	

INDIANA
DEPARTMENT OF TRANSPORTATION

PLAN AND PROFILE
STA. 647+50.00 TO STA. 662+50.00

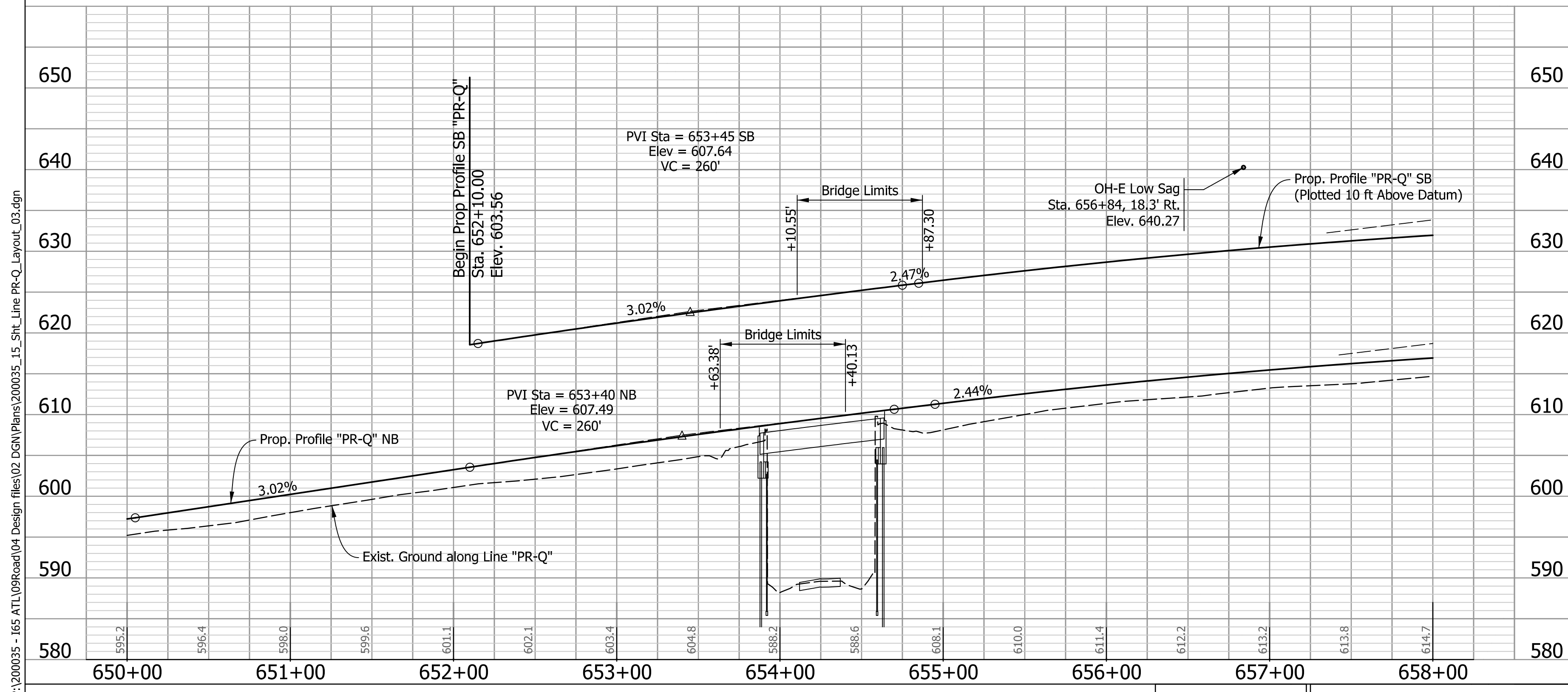
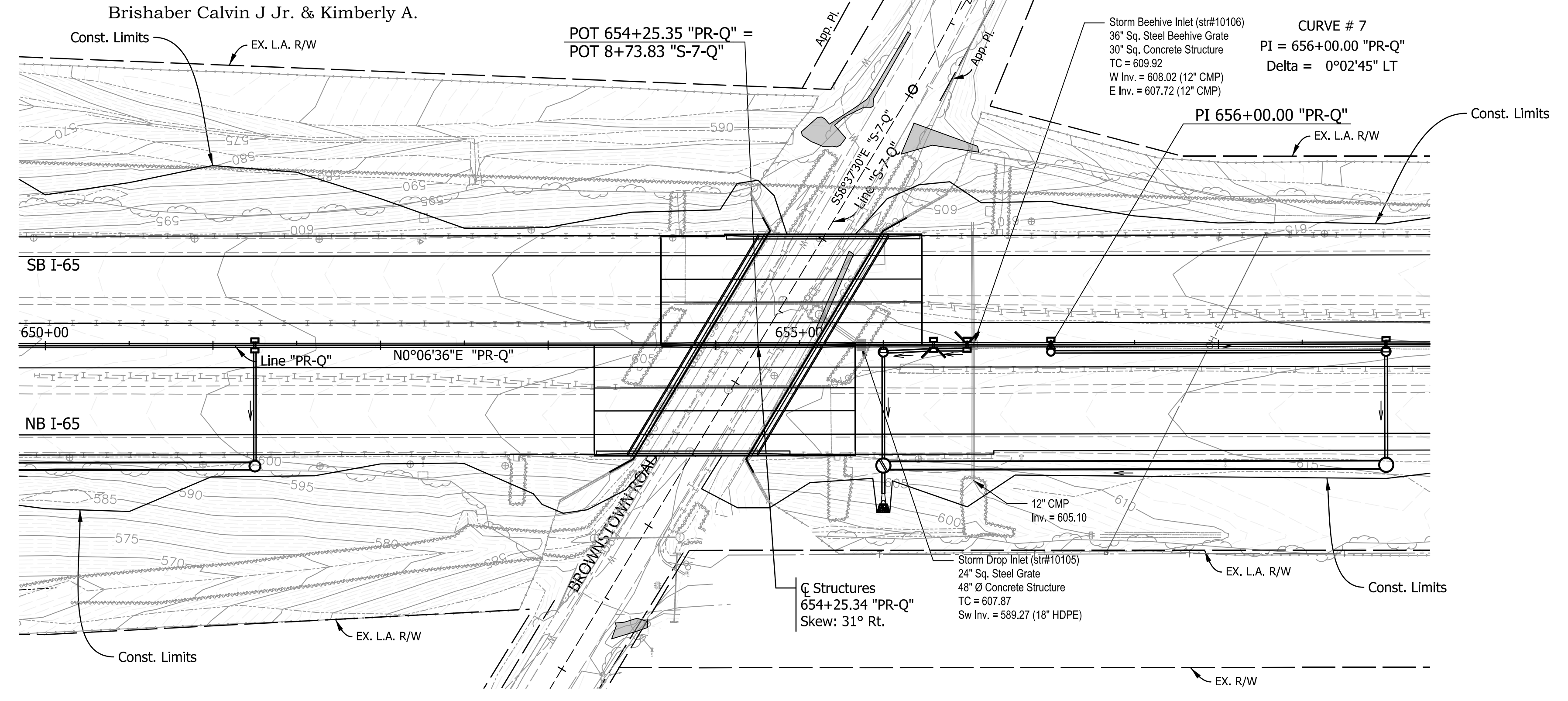
HORIZONTAL SCALE 1" = 50'	BRIDGE FILE N/A
VERTICAL SCALE 1" = 10'	DESIGNATION 1700135
SURVEY BOOK Electronic	SHEETS 8 of 24
CONTRACT R-41529	PROJECT 1700135

Survey 283 of the Illinois Grant



EXISTING STRUCTURE

The existing structures (I65-021-09939 SBL & I65-021-09940 NBL) are twin single span steel beam structures (75'-0") with 39'-4" clear roadway width built circa 2016. (To Be Rehabilitated)



TWIN COMPOSITE STEEL BEAM BRIDGES
1 SPANS: 75'-0"
63'-3 1/5" CLEAR ROADWAY SKEW: 31° Rt.
I-65 OVER BROWNSTOWN ROAD
CLARK COUNTY

Notes:
All Topo described from Line "Q".
Line "PR-Q" to be Constructed.
See Geometric Tie Sheets for Line "Q".
See Plan and Profile Sheets for Reference Points.

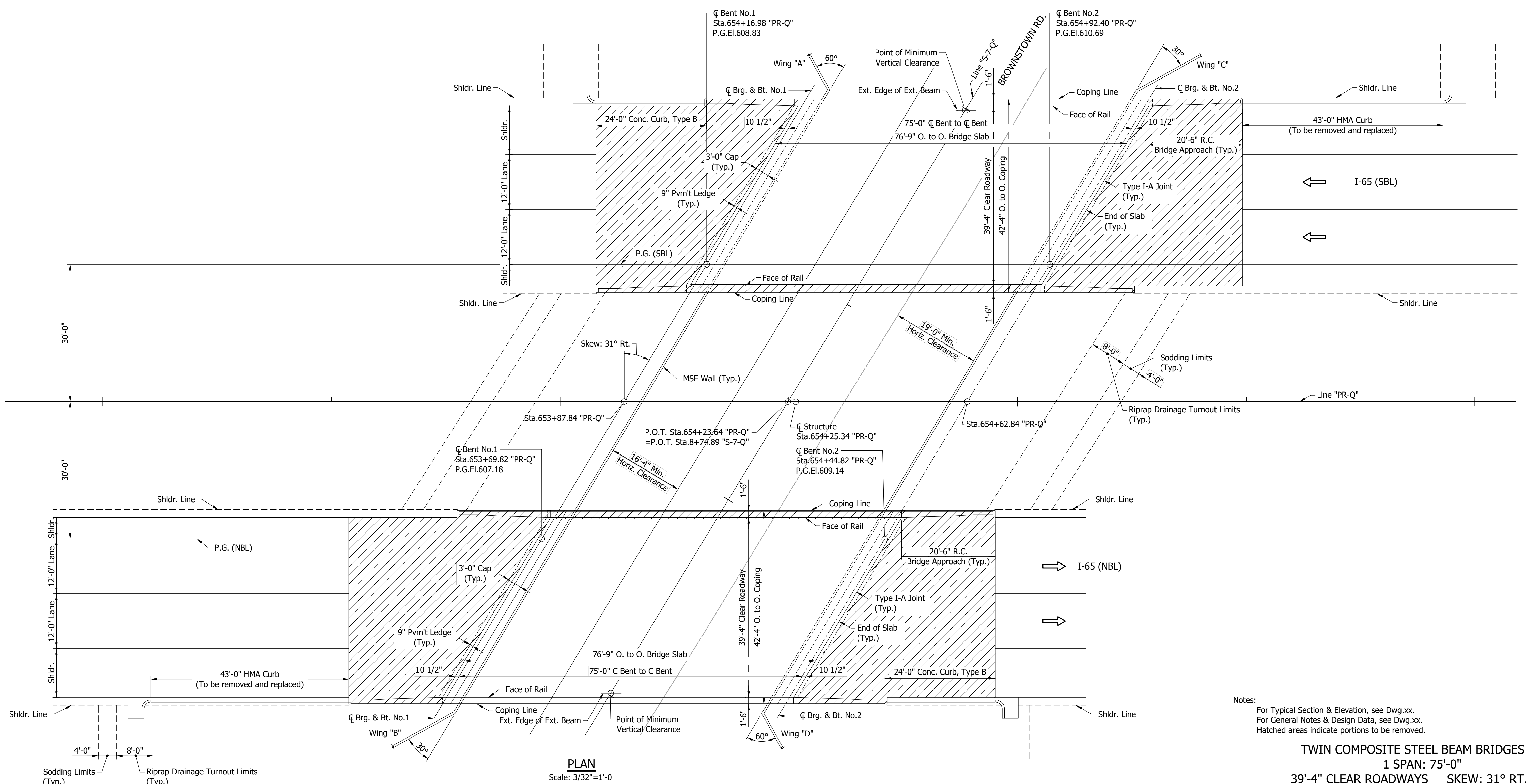
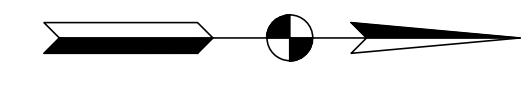
RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: AMD	DRAWN: JJP	
CHECKED: DJG	CHECKED: DJG	

INDIANA
DEPARTMENT OF TRANSPORTATION

LAYOUT SHEET

HORIZONTAL SCALE	BRIDGE FILE
1" = 50'	165-021-09939 ASBL & 165-021-09940 ANBL
VERTICAL SCALE	DESIGNATION
1" = 10'	2001600 (SB) & 2001601 (NB)
Drawing No.	SHEETS
S1 of S15	9 of 24
CONTRACT	PROJECT
R-41529	1700135

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

Notes:
For Typical Section & Elevation, see Dwg.xx.
For General Notes & Design Data, see Dwg.xx.
Hatched areas indicate portions to be removed.

TWIN COMPOSITE STEEL BEAM BRIDGES
1 SPAN: 75'-0"
39'-4" CLEAR ROADWAYS SKEW: 31° RT.
I-65 OVER BROWNSTOWN ROAD
CLARK COUNTY

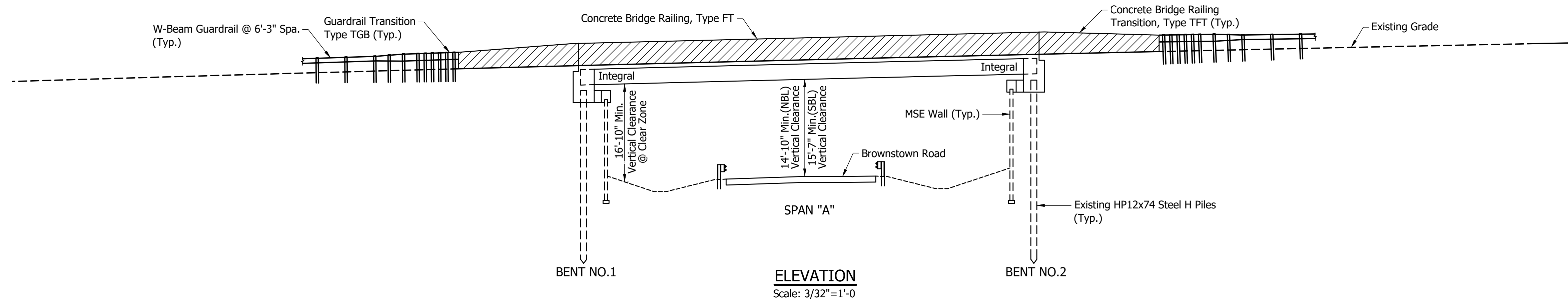
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CHECKED: APL	CHECKED: RTW	

INDIANA
DEPARTMENT OF TRANSPORTATION

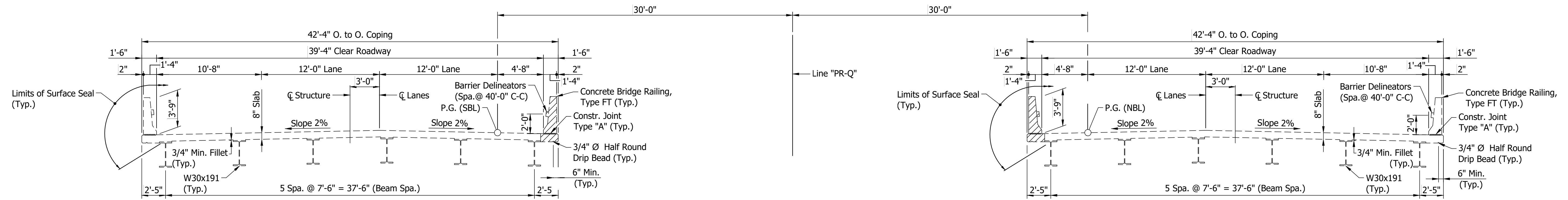
GENERAL PLAN
EXISTING

HORIZONTAL SCALE	BRIDGE FILE
AS NOTED	165-021-09939ASBL & 165-021-09940ANBL
VERTICAL SCALE	DESIGNATION
AS NOTED	2001600 (SB) & 2001601 (NB)
DRAWING NO.	SHEETS
S2 of S15	10 of 24
CONTRACT	PROJECT
R-41529	1700135

STRUCTURE TO BE BUILT TO A 270' VERTICAL CURVE



ELEVATION
Scale: 3/32"=1'-0"



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

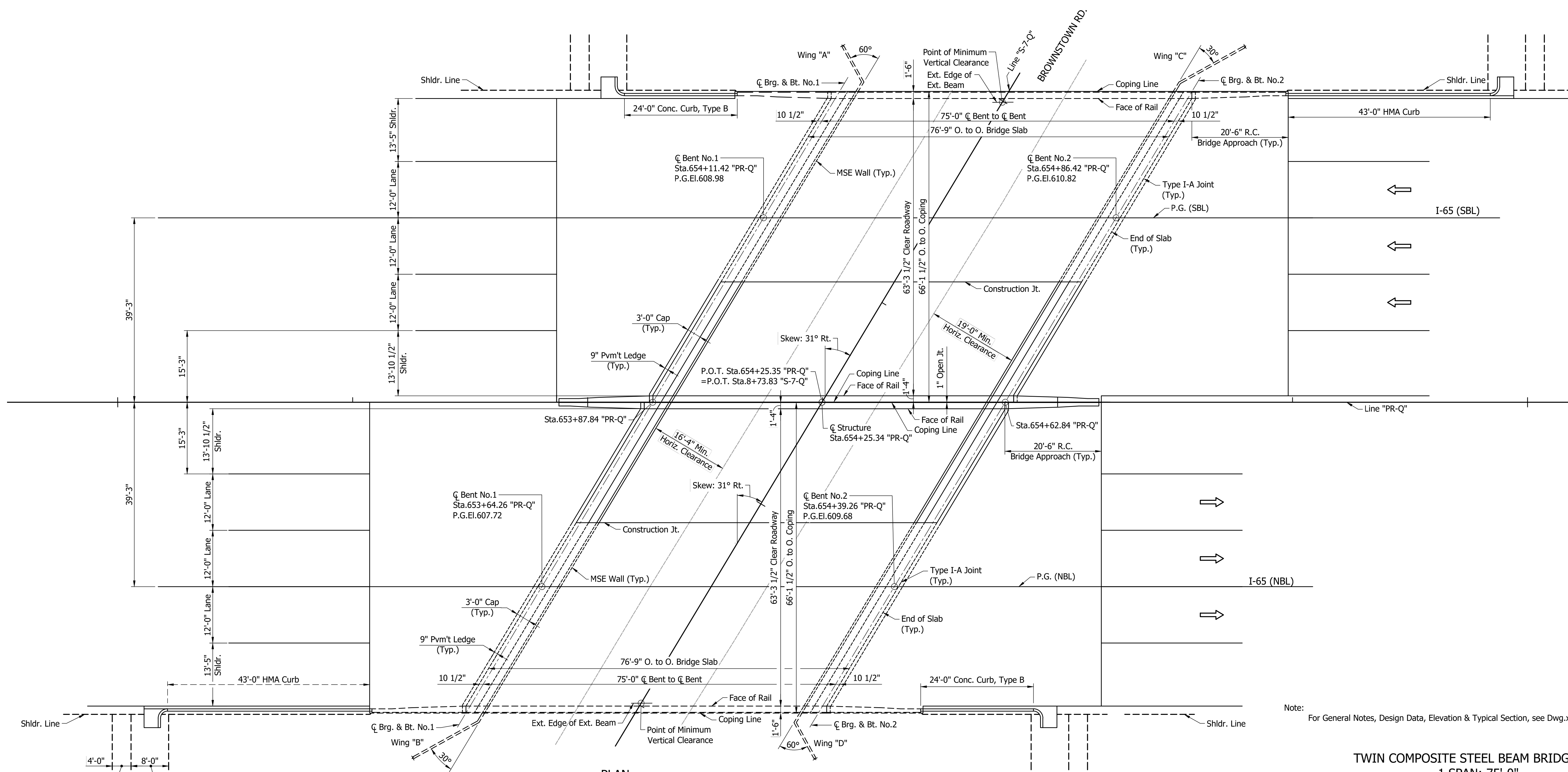
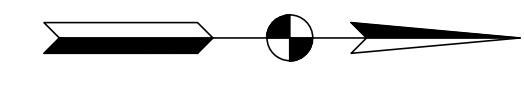
Notes:
For Plan View, see Dwg.xx.
Hatched areas indicate portions to be removed.

TWIN COMPOSITE STEEL BEAM BRIDGES
1 SPAN: 75'-0"
39'-4" CLEAR ROADWAYS SKEW: 31° RT.
I-65 OVER BROWNSTOWN ROAD
CLARK COUNTY

RECOMMENDED FOR APPROVAL _____	DESIGN ENGINEER _____	DATE _____
DESIGNED: RTW _____	DRAWN: NW _____	
CHECKED: APL _____	CHECKED: RTW _____	

INDIANA DEPARTMENT OF TRANSPORTATION	
GENERAL PLAN EXISTING	

HORIZONTAL SCALE	BRIDGE FILE
AS NOTED	165-021-09939ASBL & 165-021-09940ANBL
VERTICAL SCALE	DESIGNATION
AS NOTED	2001600 (SB) & 2001601 (NB)
DRAWING NO.	SHEETS
S3 of S15	11 of 24
CONTRACT	PROJECT
R-41529	1700135



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

Note: For General Notes, Design Data, Elevation & Typical Section, see Dwg.xx.

TWIN COMPOSITE STEEL BEAM BRIDGES
1 SPAN: 75'-0"
63'-3 1/2" CLEAR ROADWAYS **SKIEW: 31° RT.**
I-65 OVER BROWNSTOWN ROAD
CLARK COUNTY

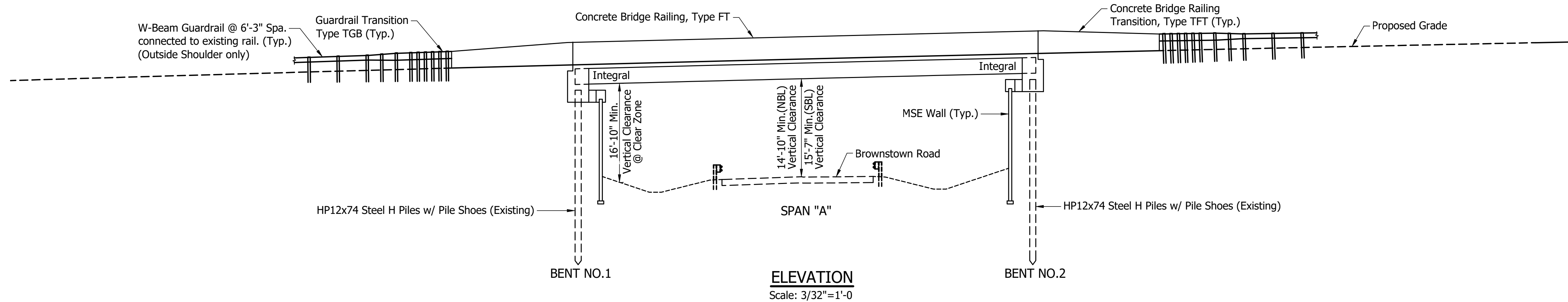
RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: RTW	DRAWN: NW	
CHECKED: APL	CHECKED: RTW	

INDIANA
DEPARTMENT OF TRANSPORTATION

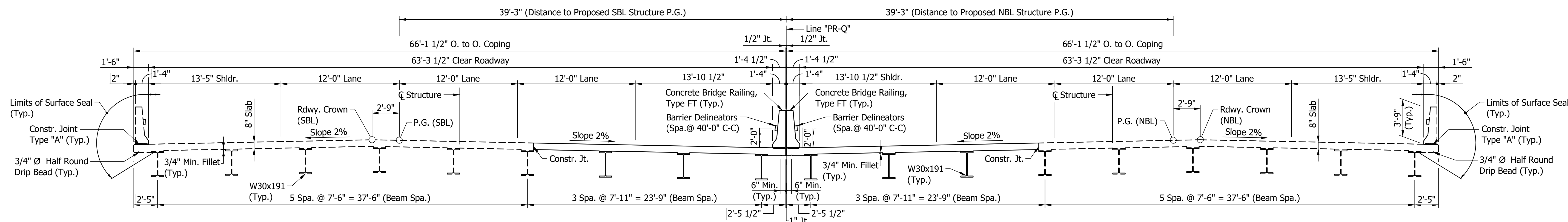
GENERAL PLAN
PROPOSED

HORIZONTAL SCALE	BRIDGE FILE
AS NOTED	165-021-09939ASBL & 165-021-09940ANBL
VERTICAL SCALE	DESIGNATION
AS NOTED	2001600 (SB) & 2001601 (NB)
DRAWING NO.	SHEETS
S4 of S15	12 of 24
CONTRACT	PROJECT
R-41529	1700135

STRUCTURE TO BE BUILT TO A 270' VERTICAL CURVE



ELEVATION
Scale: 3/32"=1'-0"



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

GENERAL NOTES

Reinforcing steel covering shall be 2 1/2" in top and 1" minimum in bottom of floor slabs and 2" in all other parts unless noted.

Where new work is to be fitted to the old work, the Contractor shall check and verify all dimensions, elevations 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 construction to the existing structure.

Portions of present structure to be removed.

The top of roadway surface from coping line to coping line, all exposed faces of concrete railings, face of deck copings, underside of bridge floor from coping to outside face of exterior beam, surfaces of wingwalls and bents, and tops of approach slabs to be sealed in accordance with Article 702.21 of Specifications.

(Estimated Quantity = Sft-NBL)
(Estimated Quantity = Sft-SBL)

Data shown for existing bridge and subsequent geometry for proposed structure taken from original structure plans.

Plans for existing structure are on file in the Research and Documents Section at the Indiana Department of Transportation, as Bridge File No. I65-021-09939ASBL & I65-021-09940ANBL and are available upon request. The existing bridge was constructed under Contract No.B-34549.

CONSTRUCTION LOADING

The exterior beam 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 exterior beam. The finishing machine was assumed to be supported 6 inches outside the vertical coping form. The top overhang brackets were assumed to be located 6 inches past the edge of the vertical coping form. The bottom overhang brackets were assumed to be braced against the intersection of the girder bottom flange and web. The Contractor shall use blocking or other methods to ensure beam rotation does not occur prior to or during concrete placement on the exterior beam.

DECK FALSEWORK LOADS:

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

CONSTRUCTION LIVE LOAD:

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

FINISHING-MACHINE LOAD:

4,500 lbs distributed over 10 ft. along the coping.

WIND LOAD:

Designed for 70 mph horizontal wind loading in according with AASHTO LRFD 3.8.1.

SEISMIC DATA

AASHTO Guide Design Specifications for LRFD Seismic Bridge Design
Seismic Zone 1
S1 = 0.06
Site Class B
Fv = 1.0

DESIGN DATA

LIVE LOAD

Designed for HL-93 loading, in accordance with the 2012 AASHTO LRFD Bridge Design Specifications.

DEAD LOAD

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

FLOOR SLAB

Designed for HL-93 Loading with a 1/2" sacrificial wearing surface.

DESIGN STRENGTHS

To be in accordance with 2012 AASHTO LRFD Bridge Design Specifications.

CONCRETE:

Class "C": f_c=4,000 psi

Class "A": f_c=3,500 psi

REINFORCING STEEL:

Grade 60: f_y=60,000 psi

STRUCTURAL STEEL

ASTM A709:

Grade 50W f_y=50 ksi

Note:
For Plan View, see Dwg.xx.

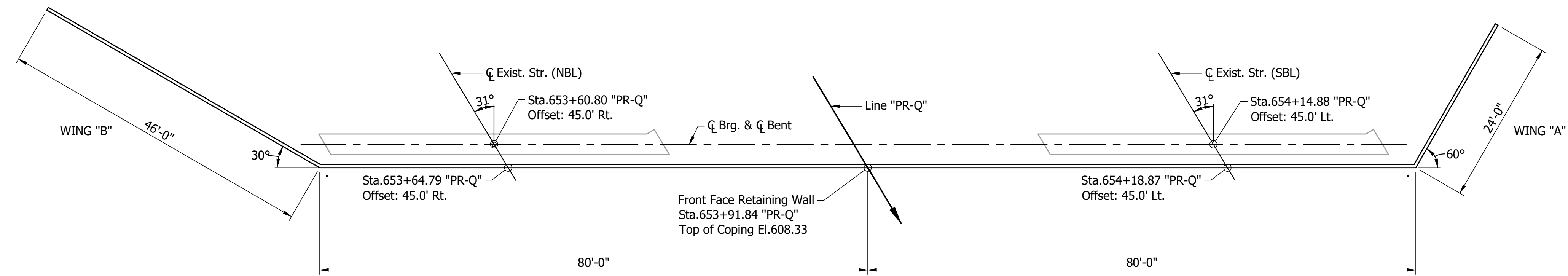
TWIN COMPOSITE STEEL BEAM BRIDGES
1 SPAN: 75'-0"
63'-3 1/2" CLEAR ROADWAYS SKEW: 31° RT.
I-65 OVER BROWNSTOWN ROAD
CLARK COUNTY

RECOMMENDED FOR APPROVAL _____	DESIGN ENGINEER _____	DATE _____
DESIGNED: RTW _____	DRAWN: NW _____	
CHECKED: APL _____	CHECKED: RTW _____	

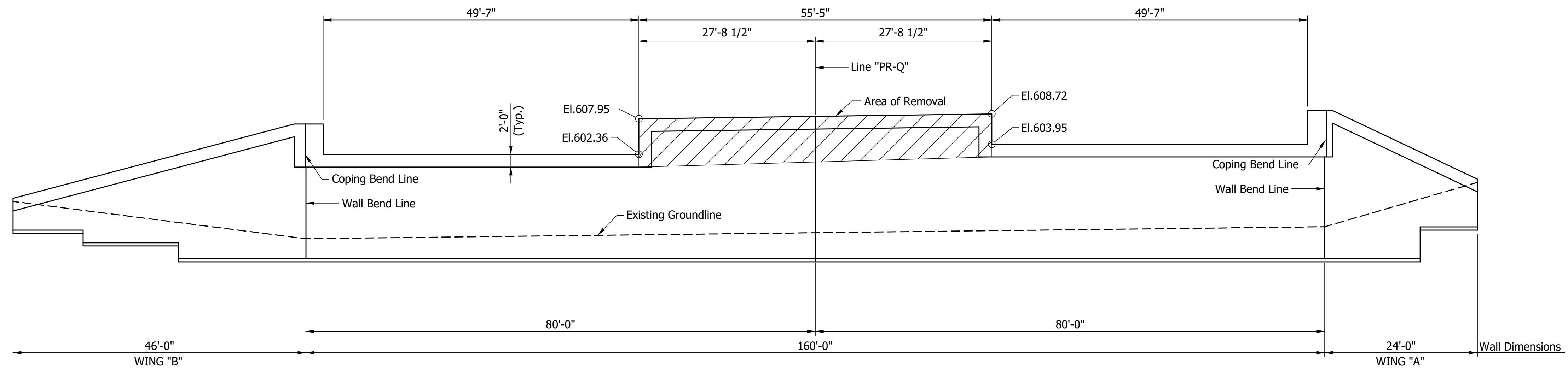
INDIANA
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN
PROPOSED

HORIZONTAL SCALE	BRIDGE FILE
AS NOTED	165-021-09939ASBL & 165-021-09940ANBL
VERTICAL SCALE	DESIGNATION
AS NOTED	2001600 (SB) & 2001601 (NB)
DRAWING NO.	SHEETS
S5 of S15	13 of 24
CONTRACT	PROJECT
R-41529	1700135



PLAN - BENT NO.1
Scale: 3/32"=1'-0"



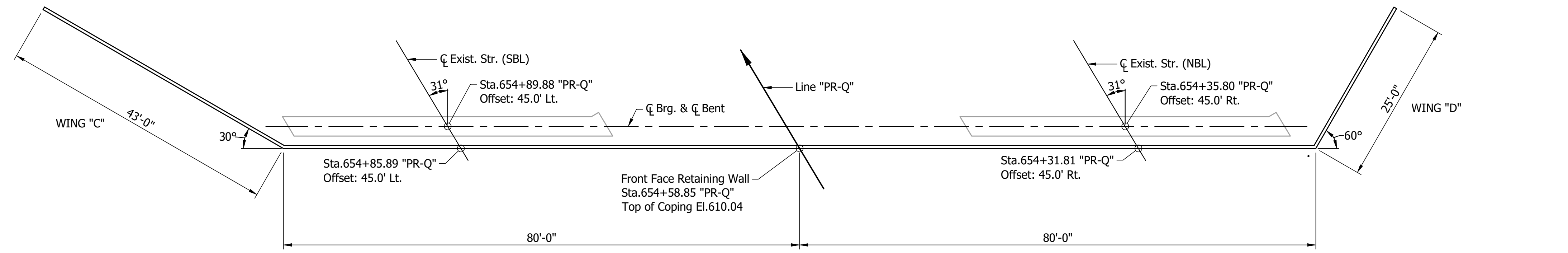
ELEVATION - BENT NO.1
Scale: 3/32"=1'-0"

Notes:
Distances along top of coping vary based on manufacturers recommendations.

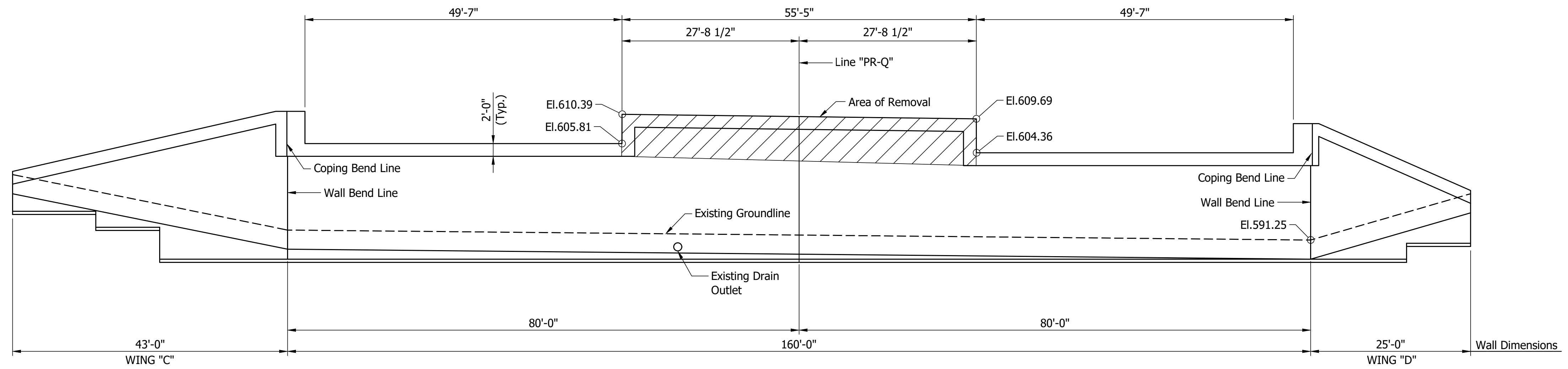
RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: RTW	DRAWN: NW	
CHECKED: APL	CHECKED: RTW	

INDIANA
DEPARTMENT OF TRANSPORTATION
EXISTING RETAINING WALL DETAILS
BENT NO.1

HORIZONTAL SCALE	BRIDGE FILE
AS NOTED	165-021-09939ASBL & 165-021-09940ANBL
VERTICAL SCALE	DESIGNATION
AS NOTED	2001600 (SB) & 2001601 (NB)
DRAWING NO.	SHEETS
S6 of S15	14 of 24
CONTRACT	PROJECT
R-41529	1700135



PLAN - BENT NO.2
Scale: 3/32"=1'-0



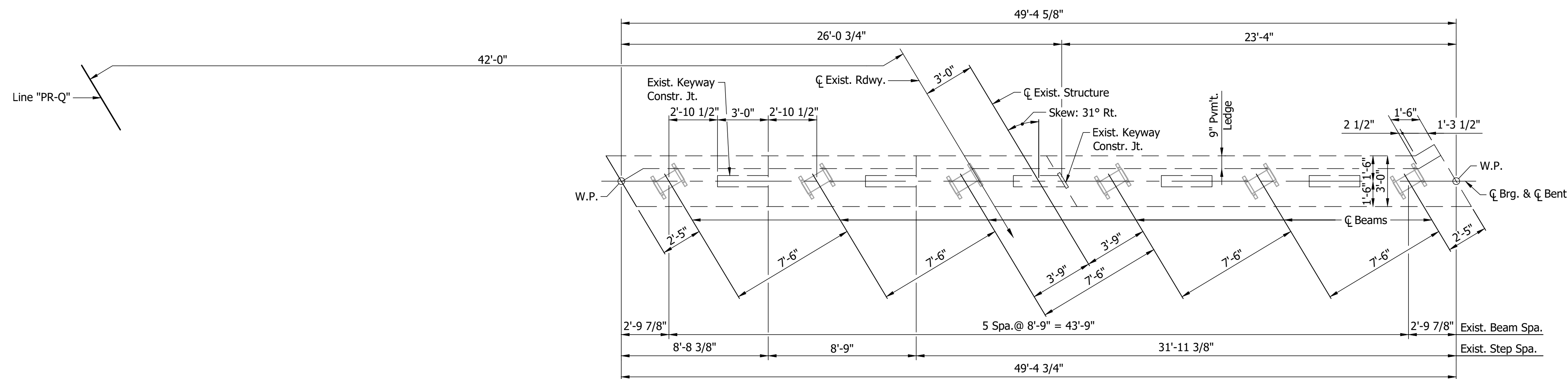
ELEVATION - BENT NO.2
Scale: 3/32"=1'-0

Notes:
Distances along top of coping vary based on manufacturers recommendations.

RECOMMENDED FOR APPROVAL _____	DESIGN ENGINEER _____	DATE _____
DESIGNED: RTW _____	DRAWN: NW _____	
CHECKED: APL _____	CHECKED: RTW _____	

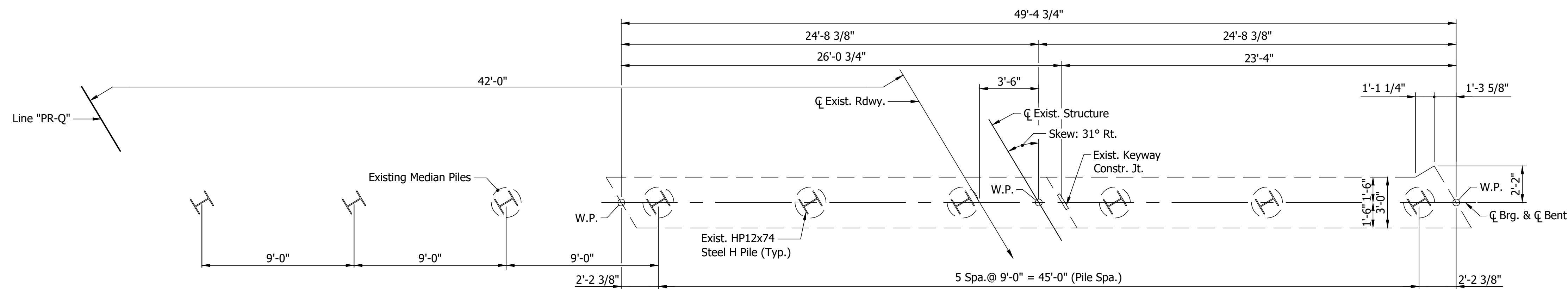
INDIANA DEPARTMENT OF TRANSPORTATION	
EXISTING RETAINING WALL DETAILS BENT NO.2	

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AS NOTED	165-021-09939ASBL & 165-021-09940ANBL
VERTICAL SCALE	DESIGNATION
AS NOTED	2001600 (SB) & 2001601 (NB)
DRAWING NO.	SHEETS
S7 of S15	15 of 24
CONTRACT	PROJECT
R-41529	1700135



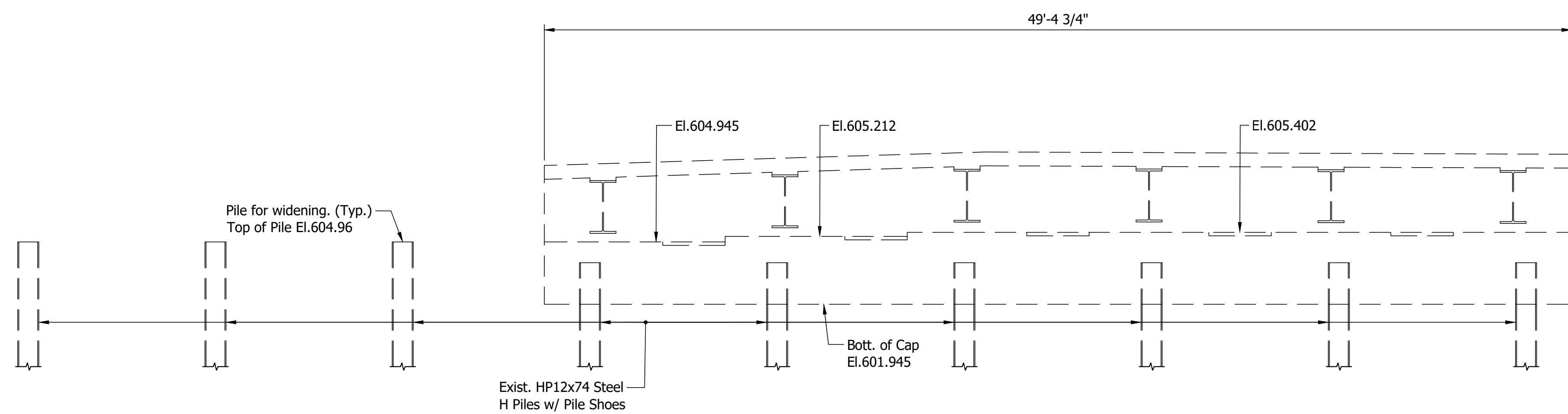
CAP PLAN

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



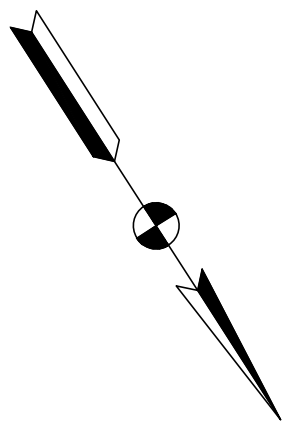
FOOTING PLAN

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



ELEVATION

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



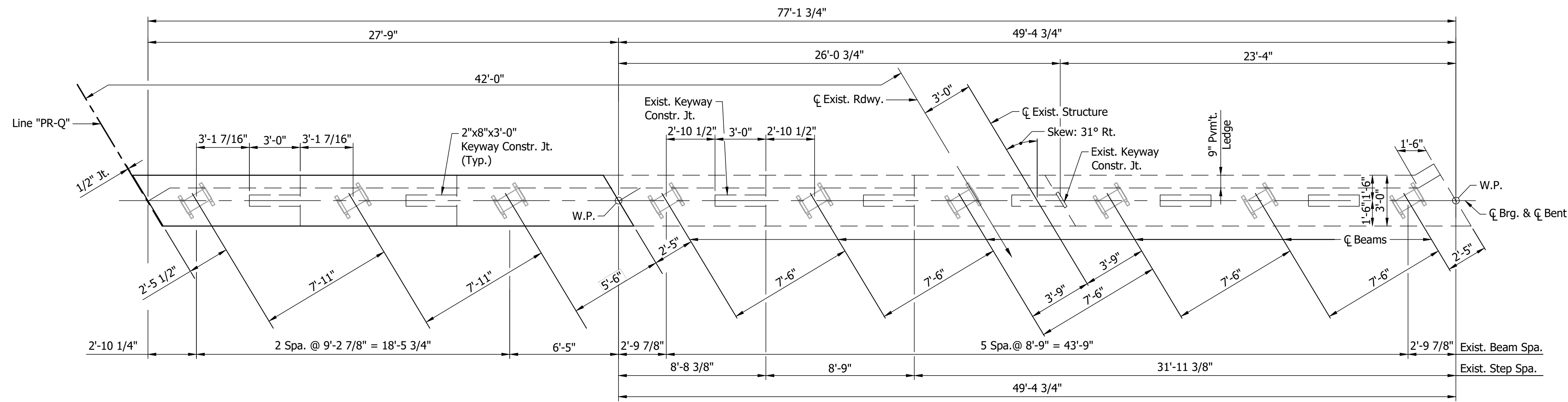
Notes:
For General Notes, see Dwg.S5
Hatched Areas indicate Portions to be removed.

RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: RTW	DRAWN: NW	
CHECKED: APL	CHECKED: RTW	

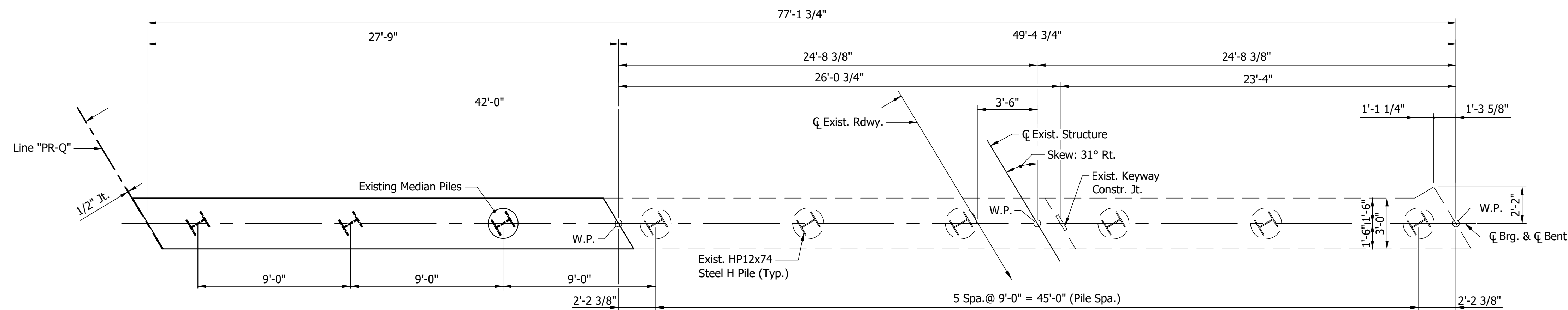
INDIANA
DEPARTMENT OF TRANSPORTATION

EXISTING BENT NO.1
SBL DETAILS

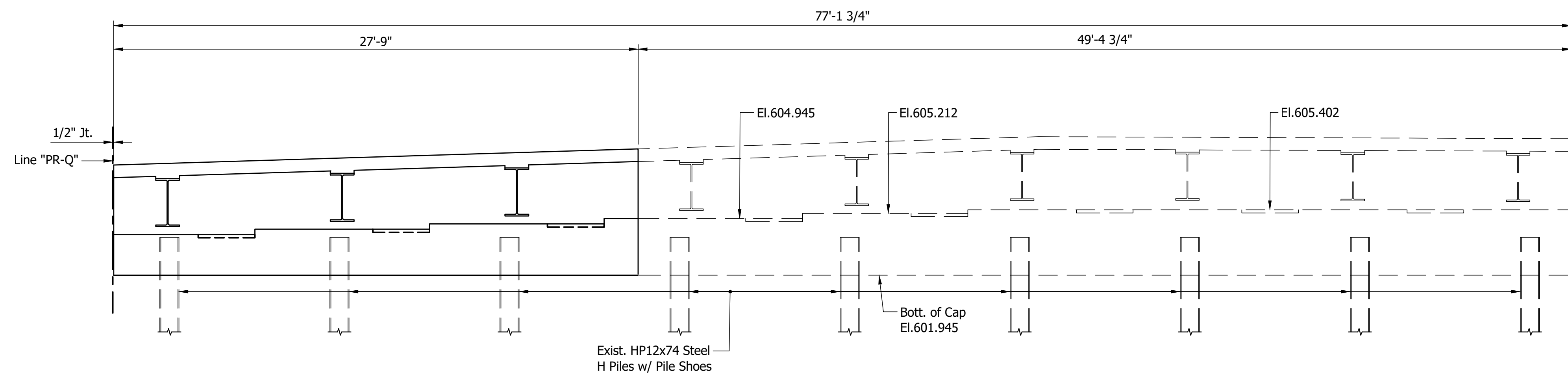
HORIZONTAL SCALE	BRIDGE FILE
AS NOTED	165-021-09939ASBL & 165-021-09940ANBL
VERTICAL SCALE	DESIGNATION
AS NOTED	2001600 (SB) & 2001601 (NB)
DRAWING NO.	SHEETS
S8 of S15	16 of 24
CONTRACT	PROJECT
R-41529	1700135



CAP PLAN
SCALE: 1/4" = 1'-0"



FOOTING PLAN
SCALE: 1/4" = 1'-0"



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

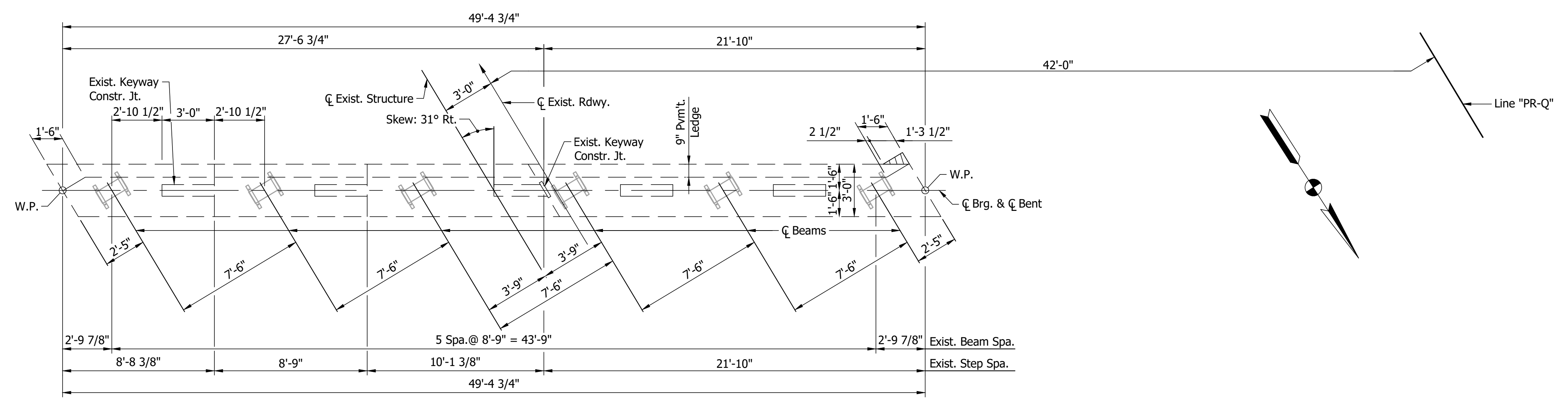
Notes:
For General Notes, see Dwg.xx

RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: RTW	DRAWN: NW	
CHECKED: APL	CHECKED: RTW	

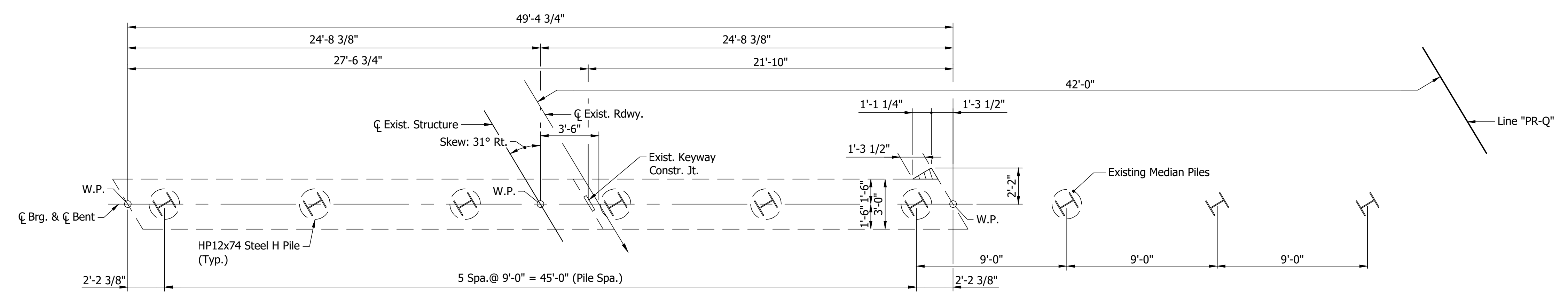
INDIANA
DEPARTMENT OF TRANSPORTATION

BENT NO. 1
SBL RECONSTRUCTION DETAILS

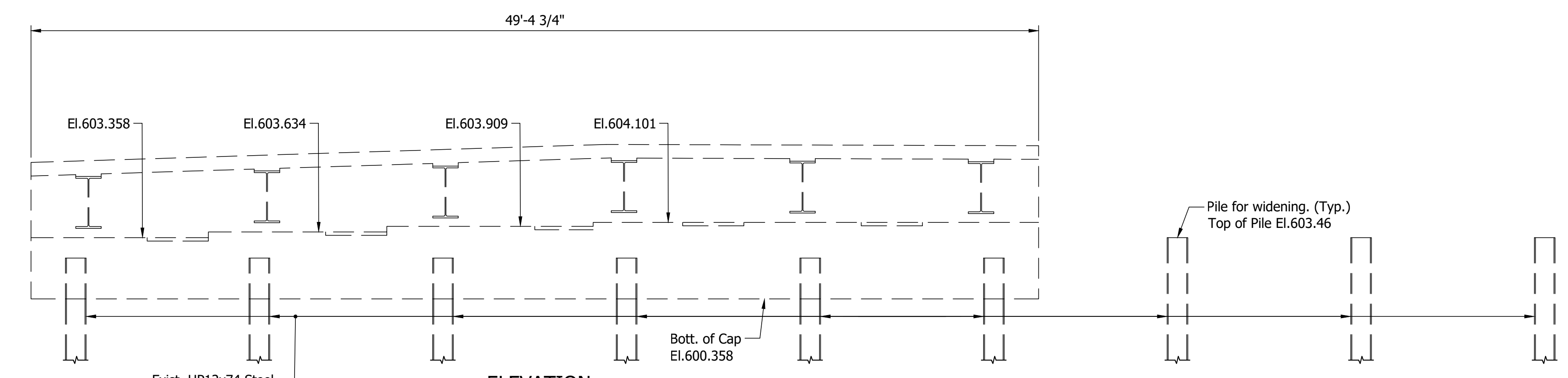
HORIZONTAL SCALE	BRIDGE FILE
AS NOTED	165-021-09939ASBL & 165-021-09940ANBL
VERTICAL SCALE	DESIGNATION
AS NOTED	2001600 (SB) & 2001601 (NB)
DRAWING NO.	SHEETS
S9 of S15	17 of 24
CONTRACT	PROJECT
R-41529	1700135



CAP PLAN
SCALE: 1/4" = 1'-0"



FOOTING PLAN
SCALE: 1/4" = 1'-0"



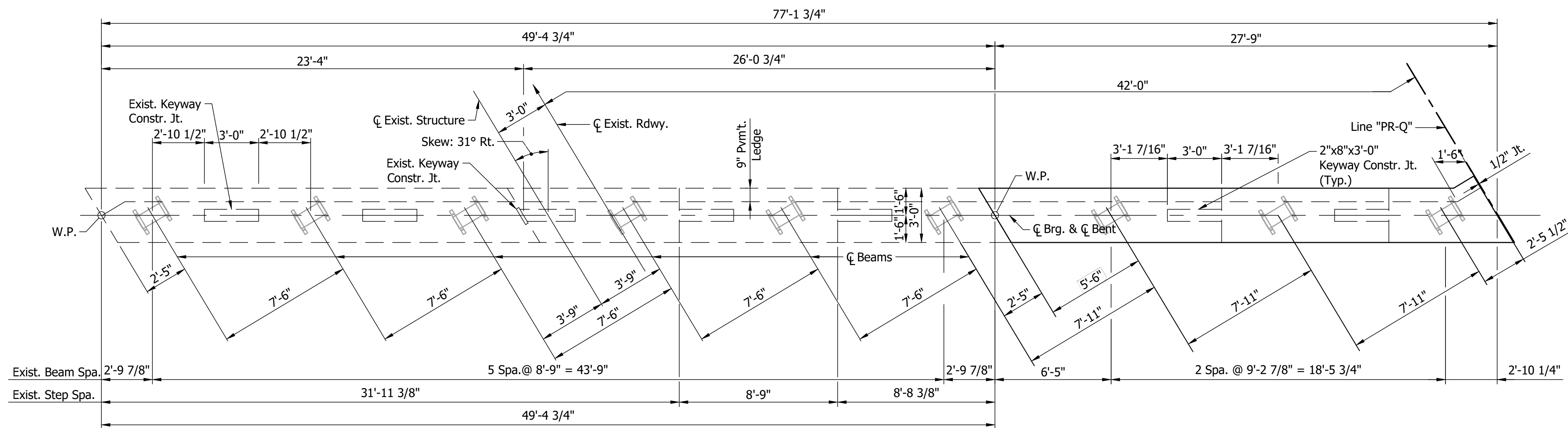
ELEVATION
SCALE: 1/4" = 1'-0"

Notes:
For General Notes, see Dwg.S5
Hatched Areas indicate Portions to be removed.

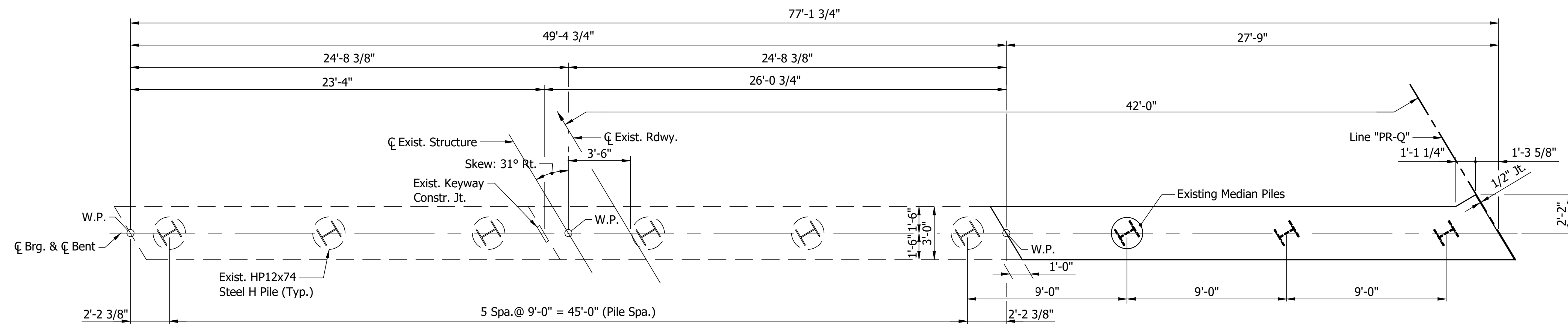
RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: RTW	DRAWN: NW	
CHECKED: APL	CHECKED: RTW	

INDIANA DEPARTMENT OF TRANSPORTATION	
EXISTING BENT NO. 1 NBL DETAILS	

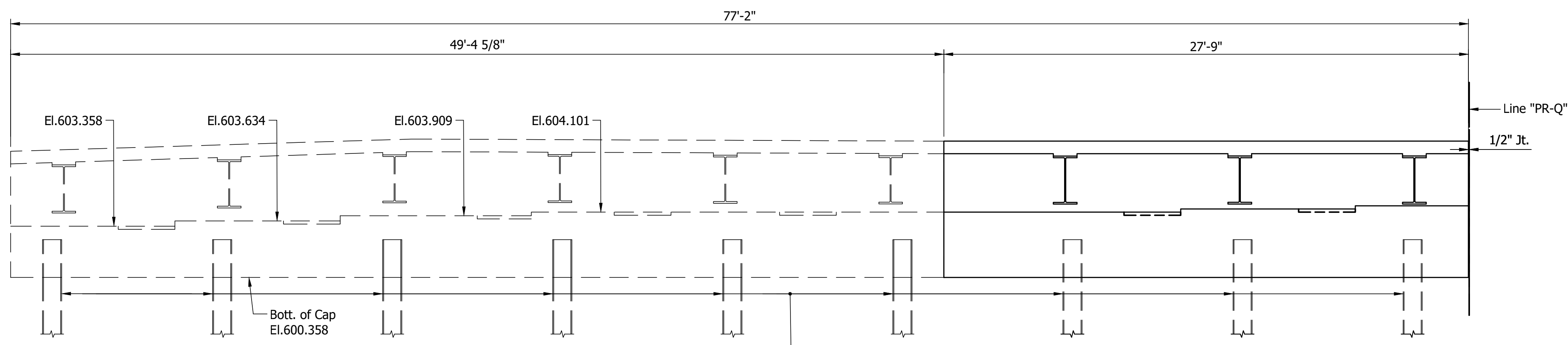
HORIZONTAL SCALE	BRIDGE FILE	
AS NOTED	165-021-09939ASBL & 165-021-09940ANBL	
VERTICAL SCALE	DESIGNATION	
AS NOTED	2001600 (SB) & 2001601 (NB)	
DRAWING NO.	SHEETS	
S10 of S15	18	of 24
CONTRACT	PROJECT	
R-41529	1700135	



CAP PLAN
SCALE: 1/4" = 1'-0"

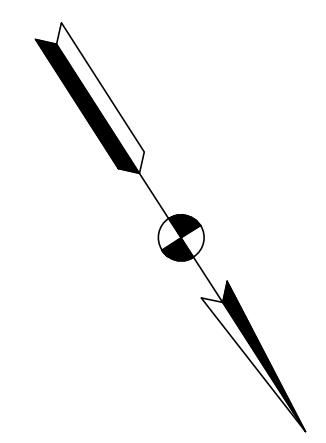


FOOTING PLAN
SCALE: 1/4" = 1'-0"



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

Exist. HP12x74 Steel H Piles w/ Pile Shoes

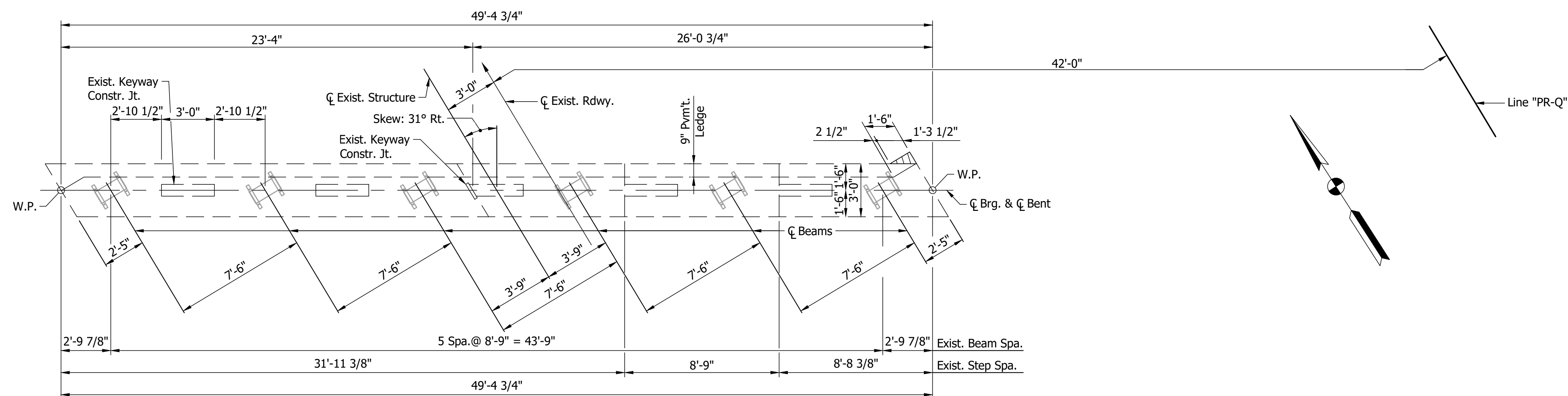


Notes:
For General Notes, see Dwg.xx

RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: RTW	DRAWN: NW	
CHECKED: APL	CHECKED: RTW	

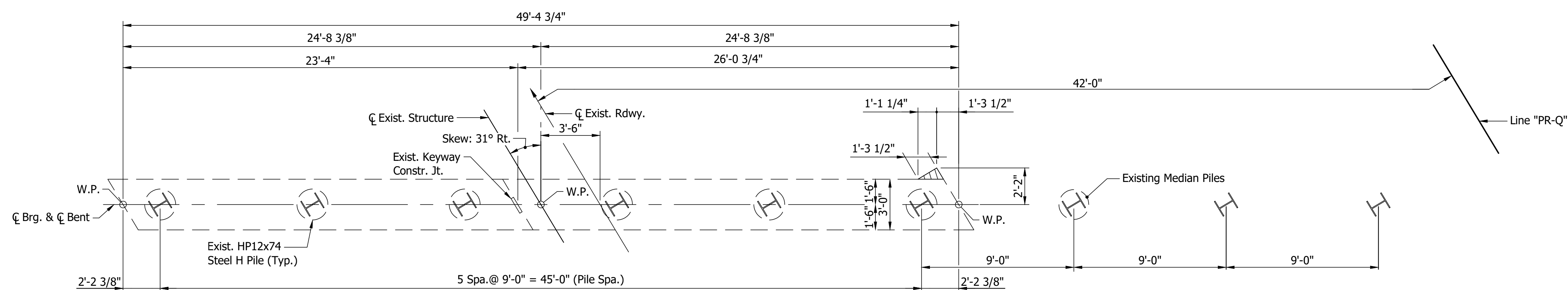
INDIANA DEPARTMENT OF TRANSPORTATION	
BENT NO. 1 NBL RECONSTRUCTION DETAILS	

HORIZONTAL SCALE	BRIDGE FILE
AS NOTED	165-021-09939ASBL & 165-021-09940ANBL
VERTICAL SCALE	DESIGNATION
AS NOTED	2001600 (SB) & 2001601 (NB)
DRAWING NO.	SHEETS
S11 of S15	19 of 24
CONTRACT	PROJECT
R-41529	1700135



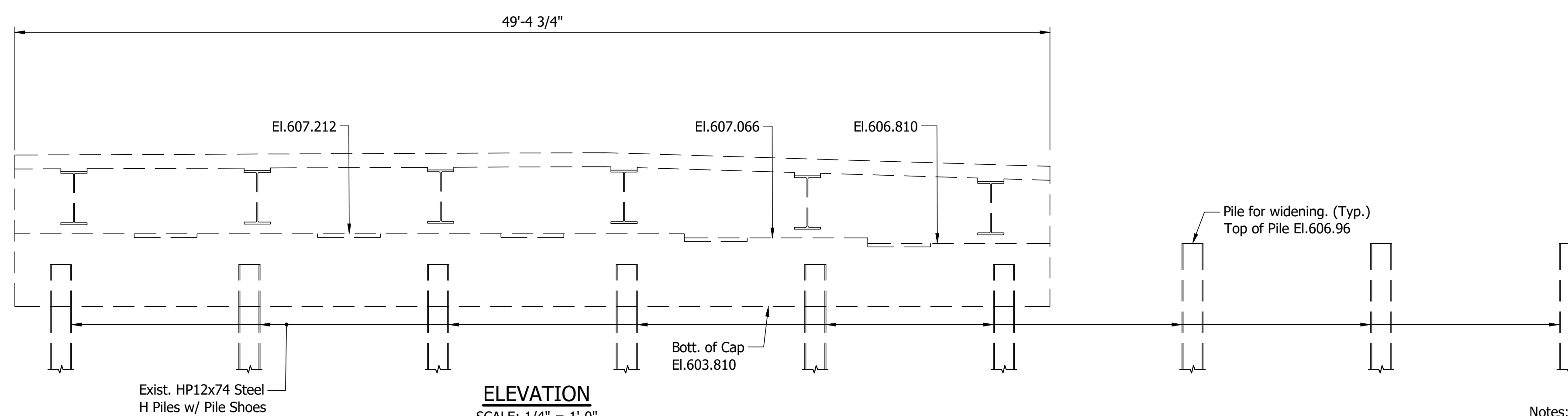
CAP PLAN

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



FOOTING PLAN

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



ELEVATION

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

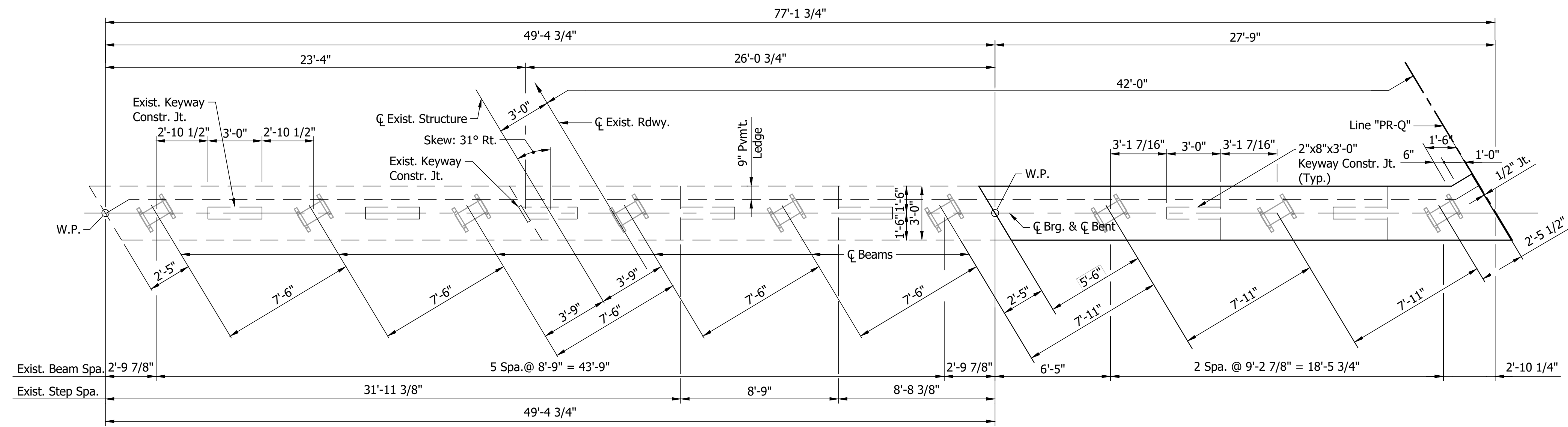
Notes:
For General Notes, see Dwg.S5
Hatched Areas indicate Portions to be removed.

RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: RTW	DRAWN: NW	
CHECKED: APL	CHECKED: RTW	

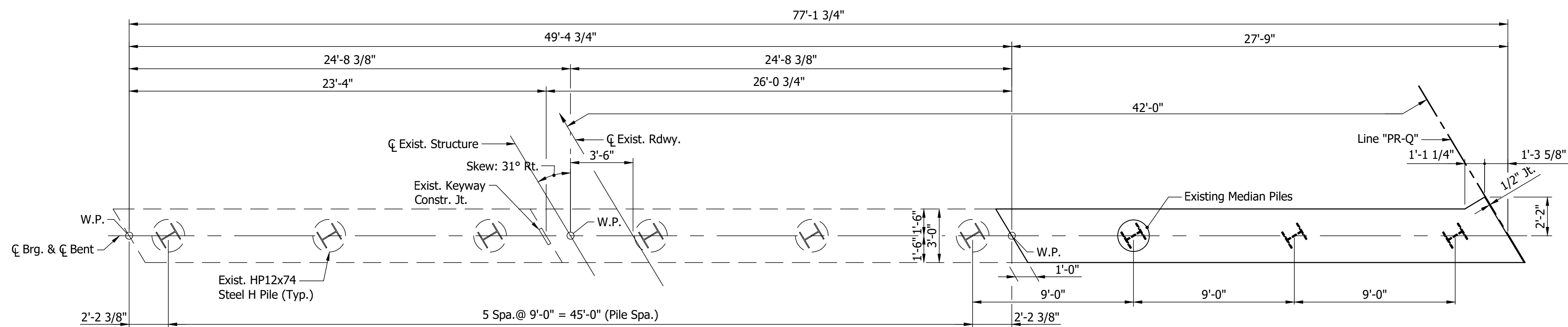
INDIANA
DEPARTMENT OF TRANSPORTATION

EXISTING BENT NO. 2
SBL DETAILS

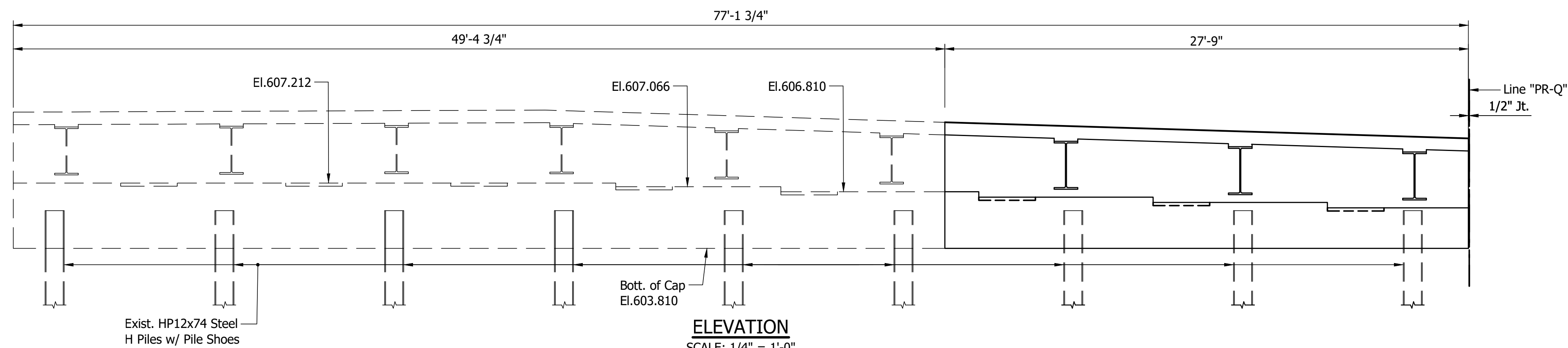
HORIZONTAL SCALE	BRIDGE FILE
AS NOTED	165-021-09939ASBL & 165-021-09940ANBL
VERTICAL SCALE	DESIGNATION
AS NOTED	2001600 (SB) & 2001601 (NB)
DRAWING NO.	SHEETS
S12 of S15	20 of 24
CONTRACT	PROJECT
R-41529	1700135



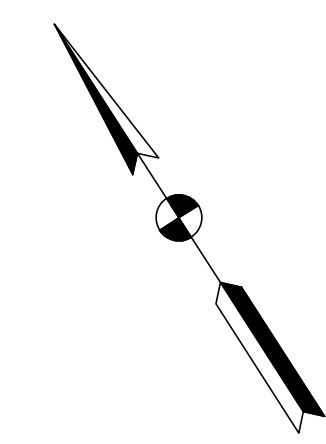
CAP PLAN
SCALE: 1/4" = 1'-0"



FOOTING PLAN
SCALE: 1/4" = 1'-0"



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



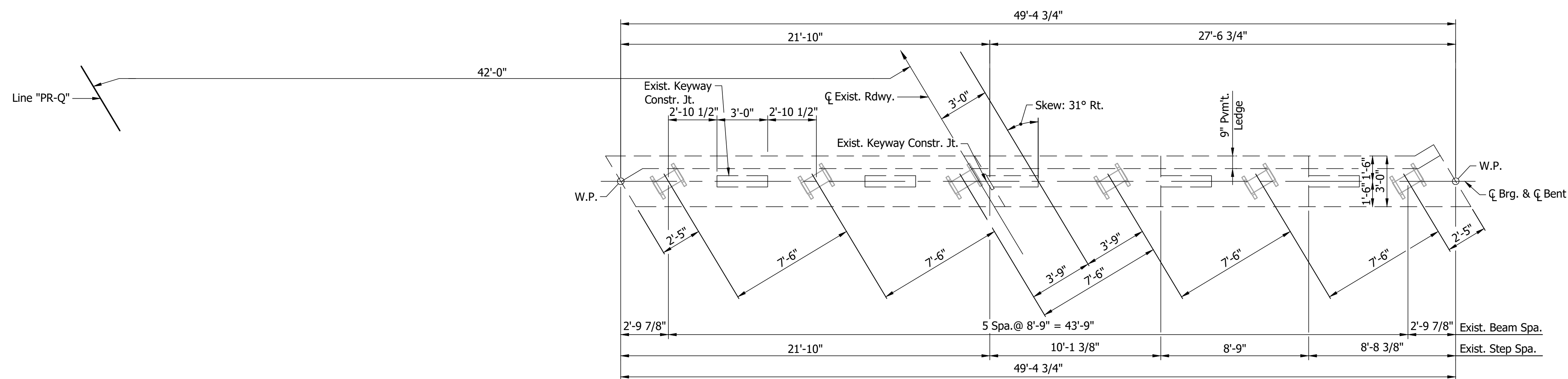
Notes:
For General Notes, see Dwg.xx

RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: RTW	DRAWN: NW	
CHECKED: APL	CHECKED: RTW	

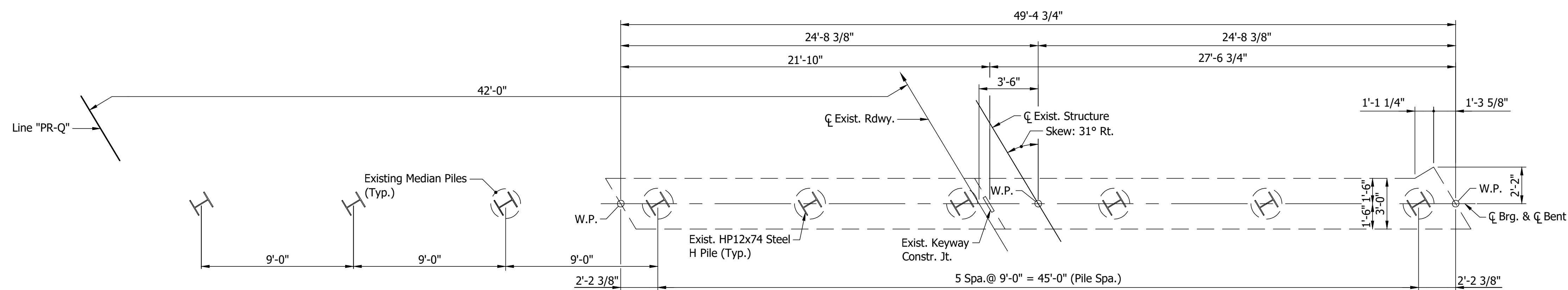
INDIANA
DEPARTMENT OF TRANSPORTATION

BENT NO. 2
SBL RECONSTRUCTION DETAILS

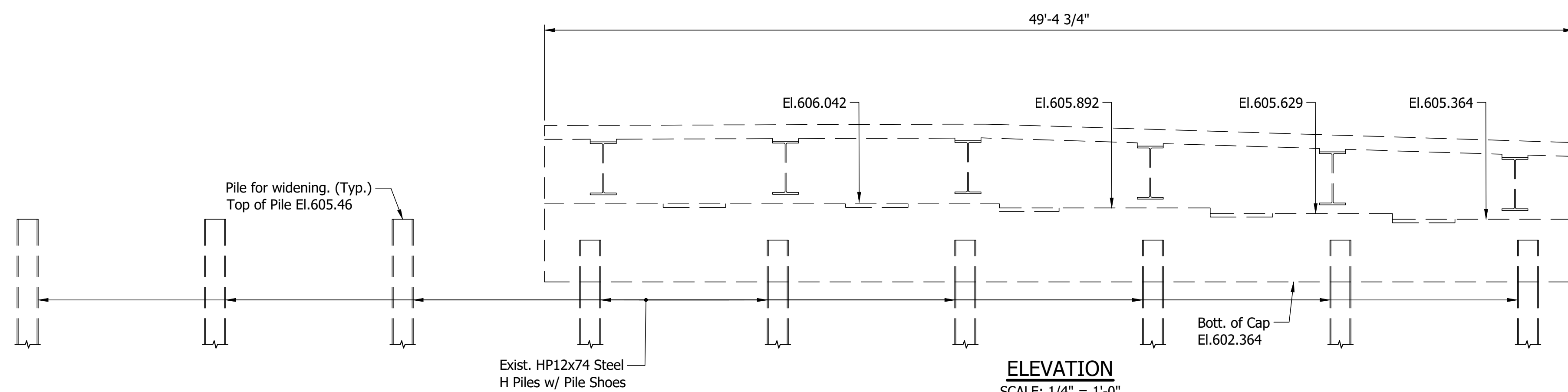
HORIZONTAL SCALE	BRIDGE FILE
AS NOTED	165-021-09939ASBL & 165-021-09940ANBL
VERTICAL SCALE	DESIGNATION
AS NOTED	2001600 (SB) & 2001601 (NB)
DRAWING NO.	SHEETS
S13 of S15	21 of 24
CONTRACT	PROJECT
R-41529	1700135



CAP PLAN
SCALE: 1/4" = 1'-0"



FOOTING PLAN
SCALE: 1/4" = 1'-0"



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

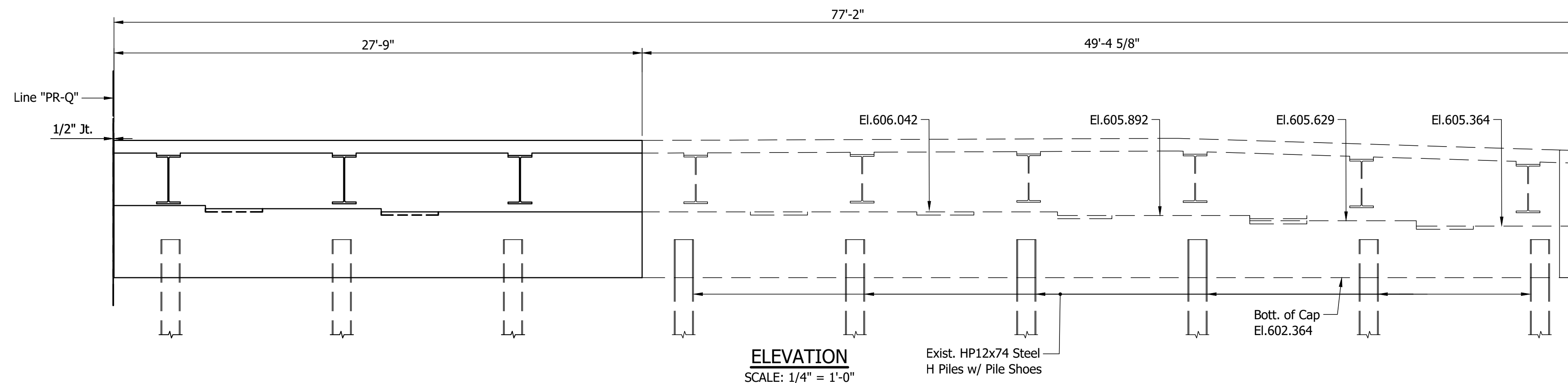
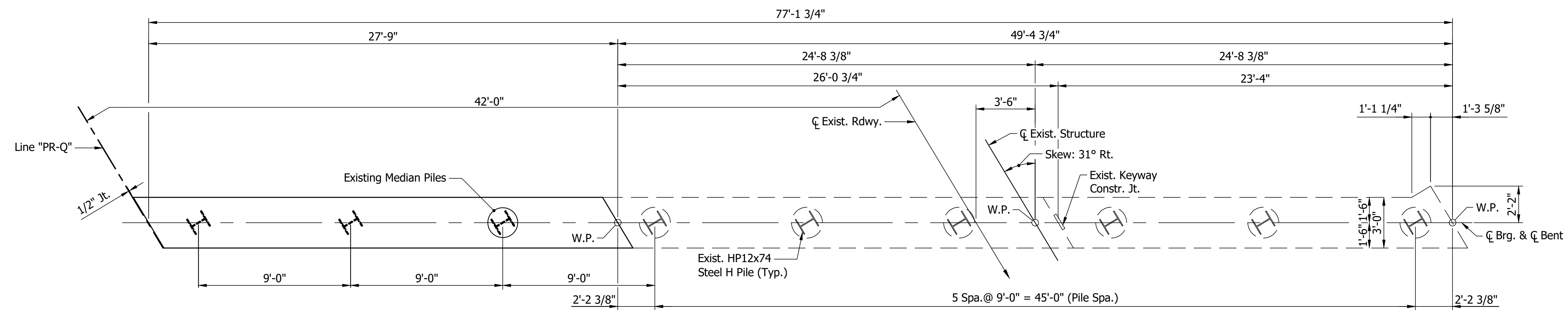
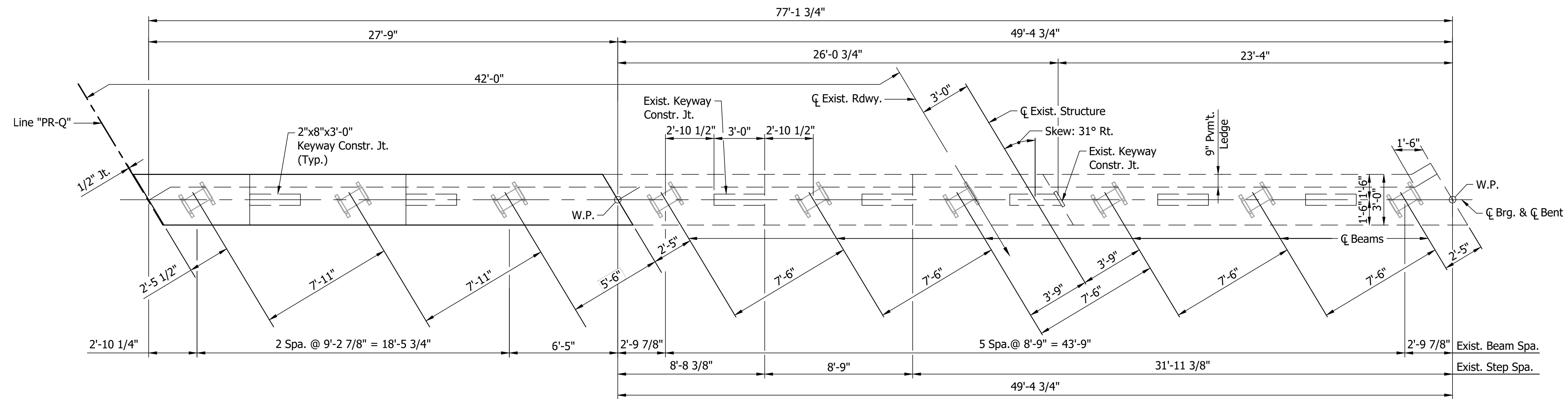
Notes:
For General Notes, see Dwg.S5
Hatched Areas indicate Portions to be removed.

RECOMMENDED FOR APPROVAL _____	DESIGN ENGINEER _____	DATE _____
DESIGNED: RTW _____	DRAWN: NW _____	
CHECKED: APL _____	CHECKED: RTW _____	

INDIANA
DEPARTMENT OF TRANSPORTATION

EXISTING BENT NO. 2
NBL DETAILS

HORIZONTAL SCALE	BRIDGE FILE
AS NOTED	165-021-09939ASBL & 165-021-09940ANBL
VERTICAL SCALE	DESIGNATION
AS NOTED	2001600 (SB) & 2001601 (NB)
DRAWING NO.	SHEETS
S14 of S15	22 of 24
CONTRACT	PROJECT
R-41529	1700135



Notes:
For General Notes, see Dwg.xx

RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: RTW	DRAWN: NW	
CHECKED: APL	CHECKED: RTW	

INDIANA
DEPARTMENT OF TRANSPORTATION

BENT NO. 2
NBL RECONSTRUCTION DETAILS

HORIZONTAL SCALE	BRIDGE FILE
AS NOTED	165-021-09939ASBL & 165-021-09940ANBL
VERTICAL SCALE	DESIGNATION
AS NOTED	2001600 (SB) & 2001601 (NB)
DRAWING NO.	SHEETS
S15 of S15	23 of 24
CONTRACT	PROJECT
R-41529	1700135

SUMMARY OF BRIDGE QUANTITIES

ITEM	CONCRETE				CONCRETE RAILING CLASS C	REINF. STEEL	EPOXY COATED REINF. STEEL	REINF. CONC. BRIDGE APPROACH (12")	DENSE GRADED SUBBASE	E.C. THREADED TIE BAR ASSEMBLIES	CAST IRON, GRATES, BASINS & FITTINGS	STRUCT. STEEL	36"x49" HYBRID BULB TEE	PILES						BARRIER DELIN-EATORS	SURFACE SEAL*	GEOTEXTILES	B BORROW	AGGREGATE FOR END BENT BACKFILL	WET EXCAVATION	DRY EXCAVATION	RAILING TS-1	CONC. BRIDGE RAILING TRANSITION, TFT												
	CLASS C	CLASS A	CLASS C	CLASS B										14"Ø STEEL ENCASED CONCRETE	HP12x74 STEEL H PILES	TEST PILE, DYNAMIC, PRODUCTION	TEST PILE, DYNAMIC, RESTRIKE	DYNAMIC PILE LOAD TEST	PILE SHOES HP12x74										CORED HOLE IN ROCK											
	SUPERSTR.	SUBSTR.	SUBSTR.	IN FTG.																										NO.	LFT	NO.	LFT	LFT	EACH	EACH	EACH	LFT	EACH	SFT
	CYS	CYS	CYS	CYS										CYS	LBS	LBS	SYS	CYS	EACH										LBS	LBS	LFT.	NO.	LFT	NO.	LFT	LFT	EACH	EACH	EACH	LFT
BENT NO.1																																								
BENT NO.2																																								
SUPERSTRUCTURE (SBL)																																								
TOTALS																																								

* Estimated Quantity

RECOMMENDED FOR APPROVAL _____
 DESIGN ENGINEER DATE

DESIGNED: RTW DRAWN: NW
 CHECKED: APL CHECKED: RTW

INDIANA DEPARTMENT OF TRANSPORTATION

BRIDGE SUMMARY OF QUANTITIES

HORIZONTAL SCALE	BRIDGE FILE
N/A	165-021-09939ASBL & 165-021-09940ANBL
VERTICAL SCALE	DESIGNATION
N/A	2001600 (SB) & 2001601 (NB)
DRAWING NO.	SHEETS
	24 of 24
CONTRACT	PROJECT
R-41529	1700135