PROJECT	DESIGNATION
1383332	1383488
CONTRACT	BRIDGE FILE
R-37053	169-208-5315B

INDEX				
STRUCTURE	TYPE	SPAN AND SKEW	OVER	STATION
169-208-5315B	CONTINUOUS COMPOSITE STEEL BEAM	FOUR SPANS: 44'-0", 76'-6", 76'-6", 44'-0" SKEW 31°29'00" Left	I-69	50+00.00 "S-12-A"

KIN DESIGNATION NUMBERS		
DESIGNATION	DESCRIPTION	TYPE
1383332	I-69 ADDED TRAVEL LANES FROM 116TH ST. TO 0.56 MILE EAST OF CAMPUS PKWY/SOUTHEASTERN PKWY	ROADWAY
1383486 & 1383487	I-69 OVER SAND CREEK	BRIDGE
1383489 & 1383490	CAMPUS PARKWAY INTERCHANGE	ROADWAY/BRIDGE
1383336	I-69 ADDED TRAVEL LANES FROM 0.56 MILE EAST OF CAMPUS PKWY/SOUTHEASTERN PKWY TO 0.42 MILE EAST OF S.R. 13	ROADWAY
1383509 & 1383510	I-69 OVER MUD CREEK	BRIDGE
1383512 & 1383513	I-69 OVER THORPE CREEK	BRIDGE
1383514 & 1383515	I-69 OVER S.R. 13	BRIDGE
1383337	I-69 ADDED TRAVEL LANES FROM 0.42 MILE EAST OF S.R. 13 TO LAPEL ROAD	ROADWAY
1383623	C.R. 650 W. OVER I-69	BRIDGE
1383624 & 1383625	I-69 OVER FOSTERS BRANCH	BRIDGE

R-37053
SET 6 OF 12

INDIANA DEPARTMENT
OF TRANSPORTATION

BRIDGE REHABILITATION PLANS

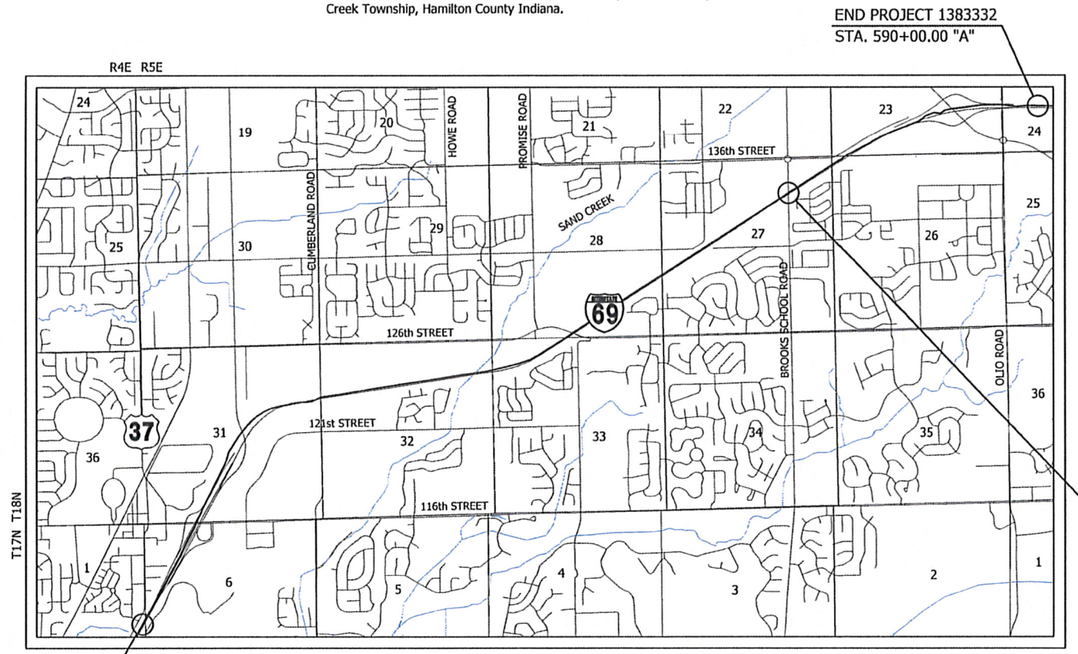
FOR SPANS OVER 20 FEET
BROOKS SCHOOL ROAD
OVER
I-69

PROJECT NO. 1383332 P.E.

RP 209+05

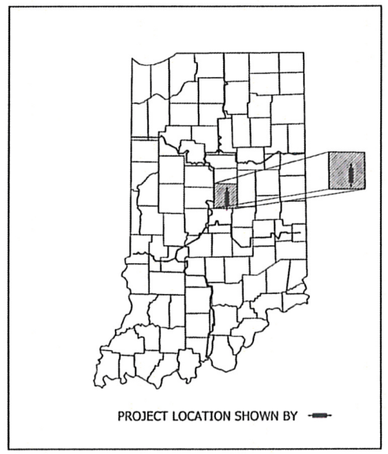
Bridge Rehabilitation, Concrete Deck Replacement Project on Structure I-69-208-05315B over Interstate 69 Located in Section 29, of Township 18 North, Range 5 East, in Fall Creek Township, Hamilton County Indiana.

TRAFFIC DATA	BROOKS SCHOOL ROAD
A.D.T. (2015)	8,550 V.P.D.
A.D.T. (2035)	10,750 V.P.D.
D.H.V. (2035)	1,230 V.P.H.
DIRECTIONAL DISTRIBUTION	51% NB/49% SB
TRUCKS	5% A.A.D.T.
	3% D.H.V.
DESIGN DATA	BROOKS SCHOOL ROAD
DESIGN SPEED	35 M.P.H.
PROJECT DESIGN CRITERIA	PARTIAL 3R (NON-FREEWAY)
FUNCTIONAL CLASSIFICATION	COLLECTOR
RURAL/URBAN	URBAN
TERRAIN	LEVEL
ACCESS CONTROL	NONE



LOCATION MAP
HAMILTON COUNTY

Scale 1" = 2000'



LATITUDE: 39°59'02"N LONGITUDE: 85°56'32"W

BRIDGE LENGTH :	0.046 MI.
ROADWAY LENGTH :	0.040 MI.
TOTAL LENGTH :	0.097 MI.
MAX GRADE :	+5.00%

CERTIFIED TRUE COPY
SET 6 of 6

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

MajorMoves 2020

UNITED Consulting
1625 N. Post Road
Indianapolis, Indiana 46219
Phone: 317-895-2585
Fax: 317-895-2596 Web: www.ucindy.com

PLANS PREPARED BY: UNITED CONSULTING (317) 895-2585 PHONE NUMBER

CERTIFIED BY: Mel A. Rowe 9.17.15 DATE

APPROVED FOR LETTING: INDIANA DEPARTMENT OF TRANSPORTATION DATE

MICHAEL A. ROWE REGISTERED No. 10001062 STATE OF INDIANA PROFESSIONAL ENGINEER

SURVEY BOOK	
CONTRACT	PROJECT
R-37053	1383332

BRIDGE FILE
169-208-5315B
DESIGNATION
1383488
SHEETS
1 of 7

UTILITIES

Sanitary Sewer

Hamilton Southeastern Utilities
11901 Lakeside Dr.
Fishers, IN 46038
Tom Kallio 317-690-1573
tkallio@samcoinc.us

Gas

Vectren Energy
16000 Allisonville Road - PO Box 1700
Noblesville, IN 46204
Brian Harger 317-776-5534
bharger@vectren.com

Petroleum

Marathon Pipe Line, LLC
539 South Main Street, RM 7642
Findlay, OH 45840
Dave Wisner 419-421-2211
dswisner@marathonpetroleum.com

Lighting

INDOT Lighting
Prakash Patel 317-233-3702
prpatel@indot.in.gov

Water

Citizens Energy Group
1220 Waterway Boulevard
Indianapolis, IN 46206
Scott Ritter
sritter@citizensenergygroup.com

Electric

Duke Energy Indiana, Inc.
1619 W. Deffenbaugh St.
Kokomo, IN 46902
Connie Maus 765-454-6180
connie.maus@duke-energy.com

Telephone

AT&T - LNS
300 North Point Pkwy
Alpharetta, GA 30005
Joel McKinney 770-335-9816
jcmckinney@att.com

Miscellaneous

ITS Technology Deployment Division
Konstantin Veygman 317-899-8606
kveygman@indot.in.gov

Traffic Structures

HERE
425 West Randolph
Chicago, IL 60606
Alexandra Archer 773-747-4247
Alexandra.Archer@HERE.com

REVISIONS

SHEET No.	DATE	REVISION

INDEX

SHEET NO.	DESCRIPTION
1	TITLE
2	INDEX
3	DETOUR PLAN
4	LAYOUT
5-6	GENERAL PLAN
7	SUBSTRUCTURE DETAILS

Know what's **below. Call** before you dig.
CALL TWO WORKING DAYS BEFORE YOU DIG
Call 811 or 800-382-5544

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Fax 317-895-2596
www.ucindy.com

JAY N. RIDENS — REGISTERED — No. 10403475 — STATE OF INDIANA — PROFESSIONAL ENGINEER

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER — 9/17/15 DATE

DESIGNED: NJK | DRAWN: RSJ
CHECKED: JNR | CHECKED: NJK

INDIANA
DEPARTMENT OF TRANSPORTATION

INDEX
BROOKS SCHOOL ROAD OVER I-69

HORIZONTAL SCALE	BRIDGE FILE
AS NOTED	I69-208-5315B
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AS NOTED	1383488
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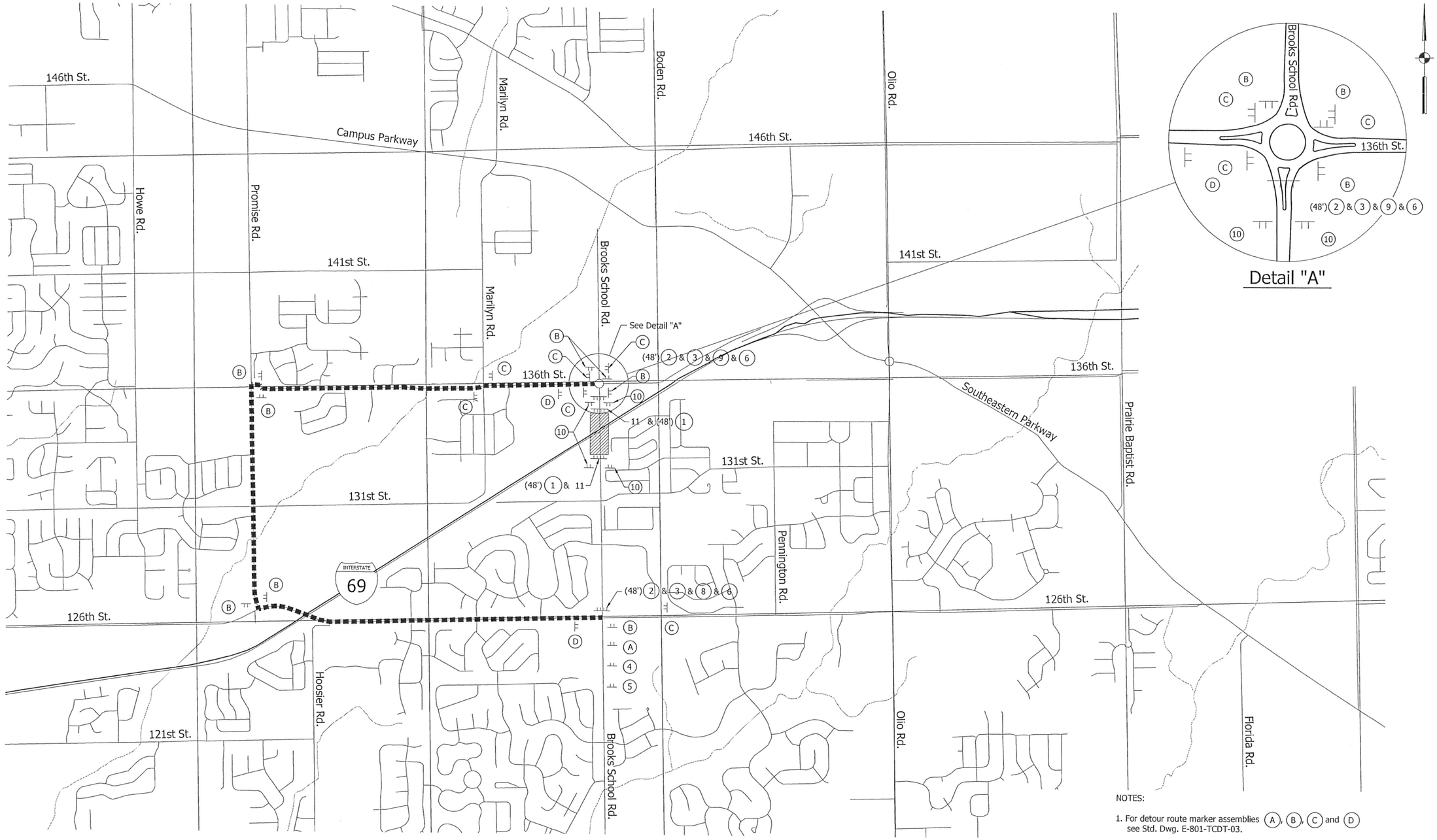
File Name: P:\C3D\MK15-469\Bridge\Brooks School Road over I-69\Dwg\Plans\Index.dwg Plot Date: 9/17/2015 Plotted By: Moffatt, Andrew J.



NOTES:

1. For detour route marker assemblies (A), (B), (C) and (D) see Std. Dwg. E-801-TCDT-03.
2. "Road Closure Notice" Signs (XG 20-3) to be placed as directed by the engineer prior to construction.

LEGEND

- Construction Area
- (1) Type III-A Barricade W/ Road Closure Sign Assembly Req'd
- (2) Type III-B Barricade W/ Road Closure Sign Assembly Req'd
- (3) XM4-10 (L/R)
- (4) Detour Ahead (XW 20-2)
- (5) Road Closed Ahead (XW 20-3)
- (6) Road Closed Sign Assembly (RII-3)
- (7) "ROAD CLOSED TO THRU TRAFFIC" (RII-4)
- (8) "ROAD CLOSED 0.2 MILES AHEAD LOCAL TRAFFIC ONLY"
- (9) "ROAD CLOSED 0.1 MILES AHEAD LOCAL TRAFFIC ONLY"
- (10) "ROAD CLOSED 500 FT" (XW20-3)
- (11) "ROAD CLOSED" (RII-2)

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RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER 9/17/15 DATE

DESIGNED: NJK DRAWN: RSJ

CHECKED: JNR CHECKED: NJK

INDIANA DEPARTMENT OF TRANSPORTATION

DETOUR PLAN
BROOKS SCHOOL ROAD OVER I-69

HORIZONTAL SCALE	BRIDGE FILE
AS NOTED	I69-208-5315B
VERTICAL SCALE	DESIGNATION
AS NOTED	1383488

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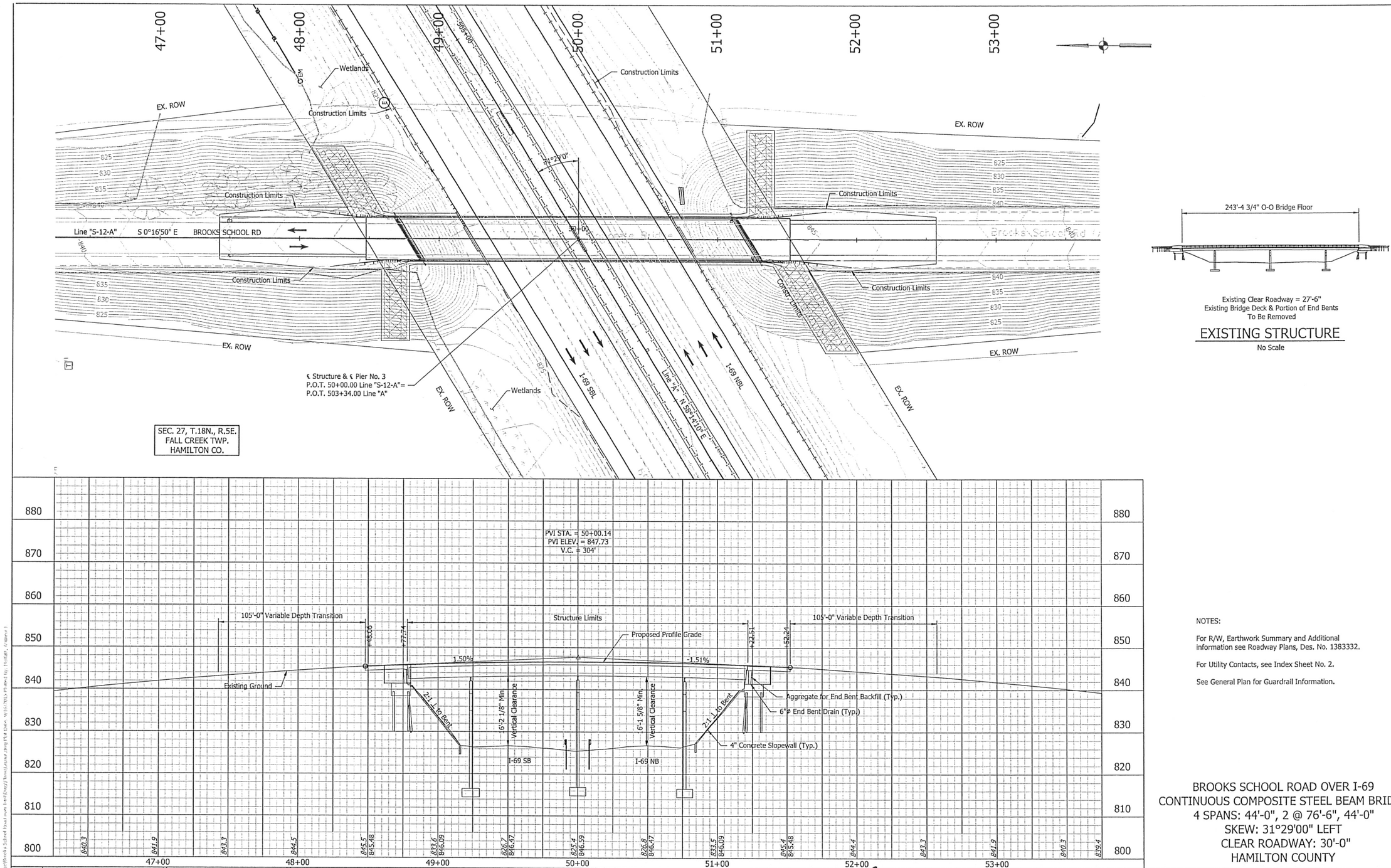

Existing Clear Roadway = 27'-6"
Existing Bridge Deck & Portion of End Bents
To Be Removed

EXISTING STRUCTURE

No Scale

NOTES:

For R/W, Earthwork Summary and Additional Information see Roadway Plans, Des. No. 1383332.

For Utility Contacts, see Index Sheet No. 2.

See General Plan for Guardrail Information.

BROOKS SCHOOL ROAD OVER I-69
CONTINUOUS COMPOSITE STEEL BEAM BRIDGE
4 SPANS: 44'-0", 2 @ 76'-6", 44'-0"
SKEW: 31°29'00" LEFT
CLEAR ROADWAY: 30'-0"
HAMILTON COUNTY

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RECOMMENDED FOR APPROVAL — DESIGN ENGINEER — DATE 9/17/15

DESIGNED: NJK DRAWN: RSJ
CHECKED: JNR CHECKED: NJK

INDIANA
DEPARTMENT OF TRANSPORTATION

LAYOUT
BROOKS SCHOOL ROAD OVER I-69

HORIZONTAL SCALE	BRIDGE FILE
1" = 30'	I69-208-5315B
VERTICAL SCALE	DESIGNATION
1" = 10'	1383488
SURVEY BOOK	SHEETS
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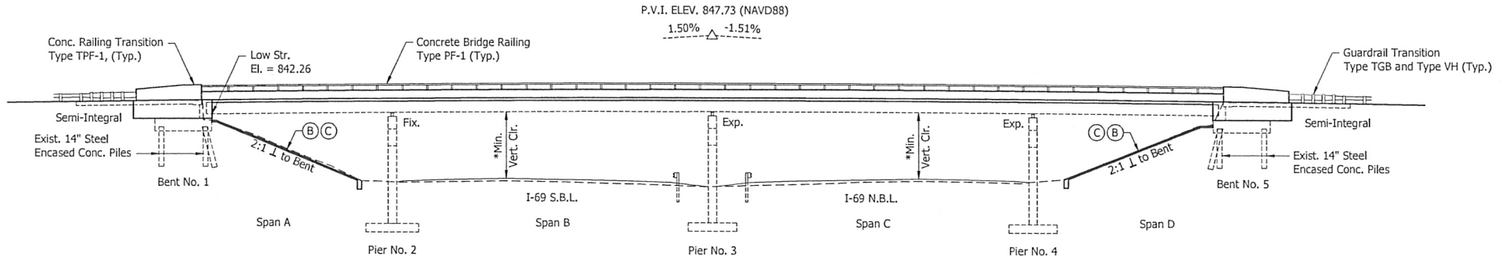
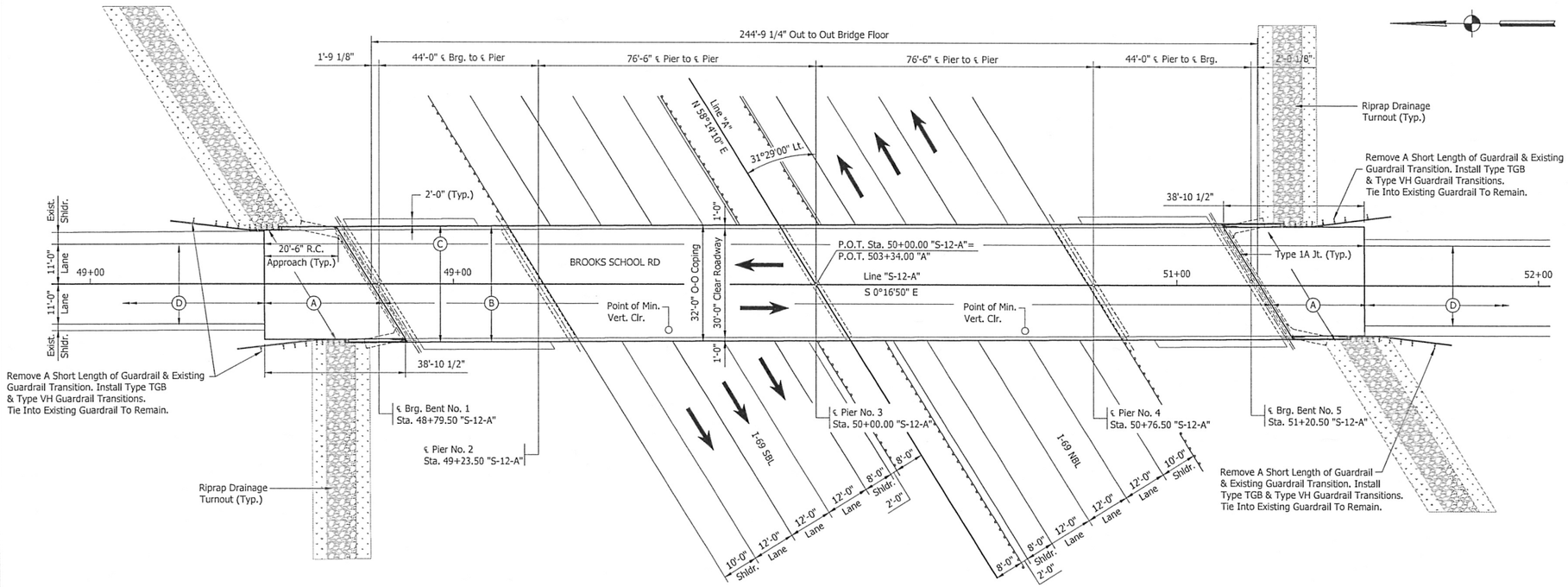
R-37053	1383332

STRUCTURE TO BE BUILT TO A 304.18' VERTICAL CURVE



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

Min. Vert. Clr. Table		
	NB	SB
Existing *	16'-1"	16'-1½"
Proposed *	16'-1⅝"	16'-2⅛"



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

GENERAL NOTES

Reinforcing steel covering shall be 2½" in Top and 1" min. in bottom of floor slabs, 3" in footing except bottom steel which shall be 4", and 2" in all other parts, unless noted.

All New Reinforcement Shall be Epoxy Coated.

Surface Seal Shall be Applied to the Approach Slabs, All Exposed Surfaces of Concrete Railings and Railing Transitions, Deck Surface, and Deck Copings.

Plans for the Existing Structure are on file in the Central Office, Indiana Dept. of Transportation as Bridge File No. I69-8-5315, I69-8-5315A and are available upon request.

DESIGN DATA

Superstructure & Substructure Designed for HS-20 Loading in accordance with AASHTO Standard Specifications Seventeenth Edition, 2002, and subsequent interims. Designed for actual dead load plus 35 psf. of future wearing surface.

SEISMIC DESIGN DATA

Seismic Performance Zone = Zone 1
Acceleration Coefficient (S_{D1}) = 0.114
Seismic Soil Profile Type = Site Class D

DESIGN STRENGTHS

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

LEGEND

(A) Remove Existing Bridge Approach Railings, Approach Slabs, Approach Slab Transitions and Joint Material.

(B) Remove End Bent Mudwalls and Wingwalls To Existing Bridge Seats, Remove Existing Bridge Deck Slab and Concrete Slopewall.

(C) Construct Concrete Slopewall, Semi-Integral End Bents, Wing Walls and Full Depth Bridge Deck, Type PF-1 Concrete Bridge Railings, R.C. Bridge Approaches and Type TPF-1 Concrete Railing Transitions.

(D) Limits of 105' Length Variable-Depth Transitions to Tie in to Existing Pavement.

NOTES:
See Typical Sections and Substructure Details, for Additional Information.

BROOKS SCHOOL ROAD OVER I-69
CONTINUOUS COMPOSITE STEEL BEAM BRIDGE
4 SPANS: 44'-0", 2 @ 76'-6", 44'-0"
SKEW: 31°29'00" LT
30'-0" CLEAR ROADWAY
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INDIANA DEPARTMENT OF TRANSPORTATION

GENERAL PLAN
BROOKS SCHOOL ROAD OVER I-69

HORIZONTAL SCALE	BRIDGE FILE
AS NOTED	I69-208-5315B
VERTICAL SCALE	DESIGNATION
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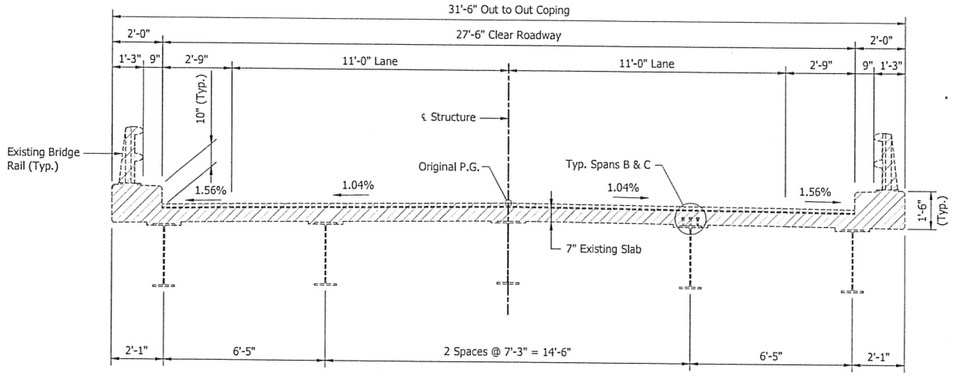
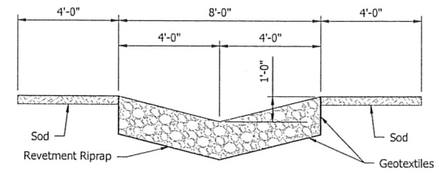


EXISTING TYPICAL SECTION

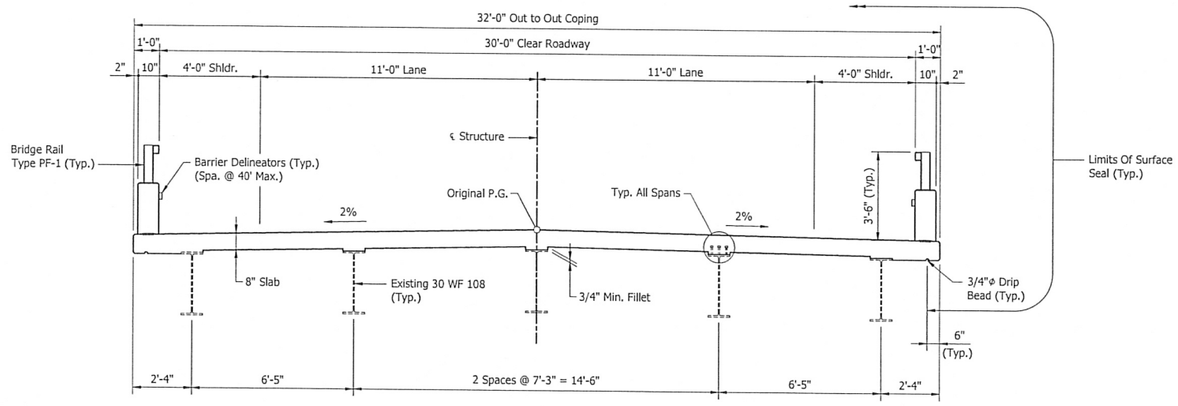
Scale: 3/8" = 1'-0"

- Indicates Limits of Removal



RIPRAP DRAINAGE TURNOUT
TYPICAL SECTION

No Scale



PROPOSED TYPICAL SECTION

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

BROOKS SCHOOL ROAD OVER I-69
CONTINUOUS COMPOSITE STEEL BEAM BRIDGE
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30'-0" CLEAR ROADWAY
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DESIGNED: NJK | DRAWN: RSJ
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GENERAL PLAN
BROOKS SCHOOL ROAD OVER I-69

HORIZONTAL SCALE	BRIDGE FILE
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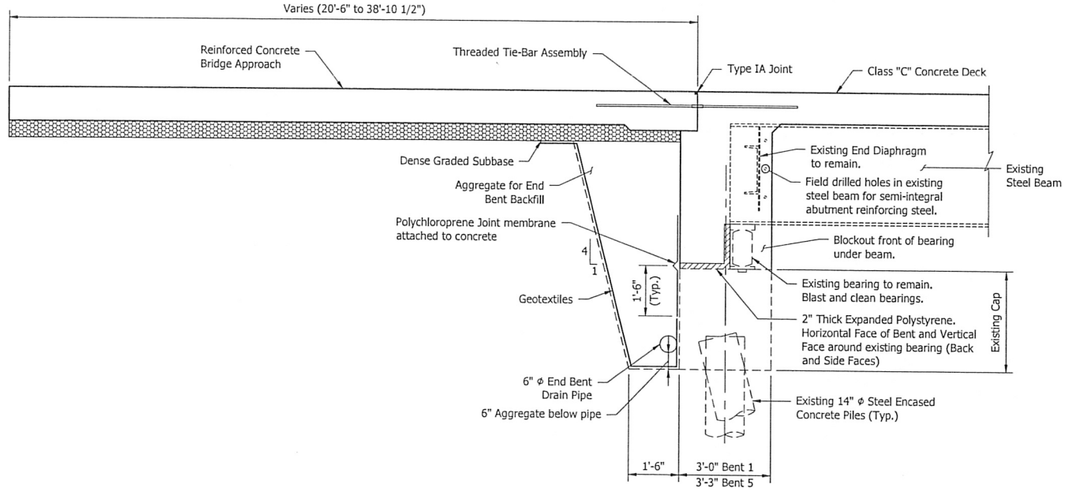
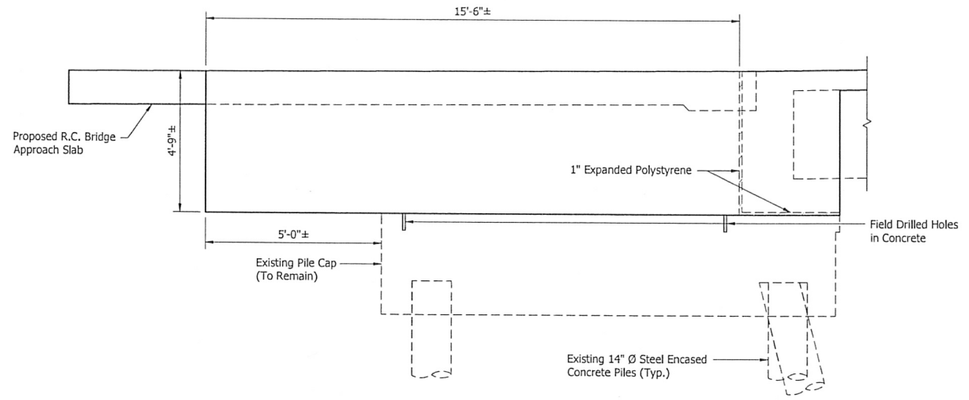


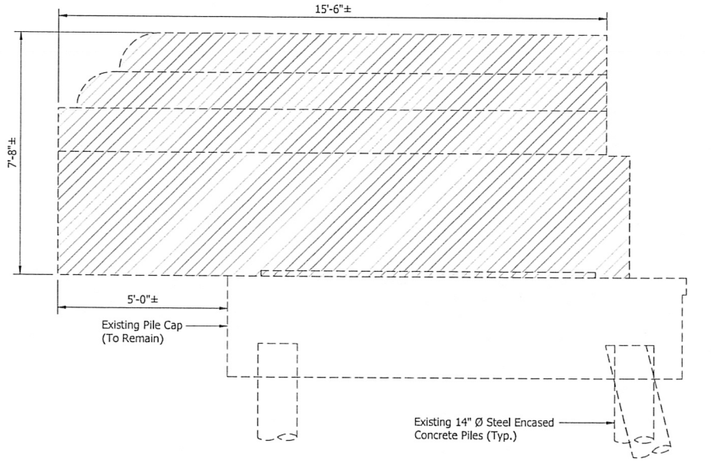
TYPICAL SECTION - PROPOSED SEMI INTEGRAL END BENT

(AT EXISTING BENT CAP)
Scale: 1/2" = 1'-0"



TYPICAL PROPOSED WING ELEVATION

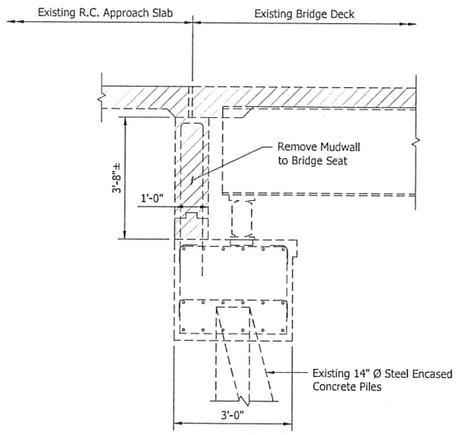
Scale: 1/2" = 1'-0"



TYPICAL EXISTING WING ELEVATION - REMOVAL

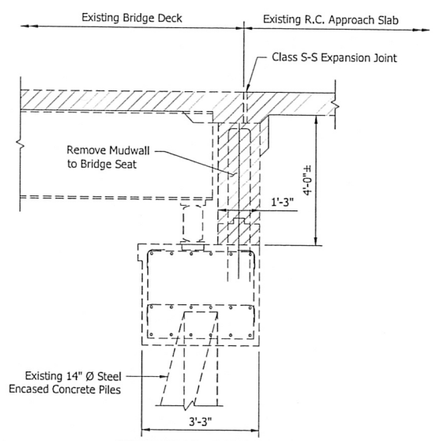
Scale: 1/2" = 1'-0"

- Indicates Limits of Removal



TYPICAL SECTION EXISTING END BENT NO. 1 - REMOVAL

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



TYPICAL SECTION EXISTING END BENT NO. 5 - REMOVAL

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

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JAY N. RIDENS REGISTERED No. 10403475 STATE OF INDIANA PROFESSIONAL ENGINEER

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER 9/17/15 DATE

DESIGNED: NJK DRAWN: RSJ
CHECKED: JNR CHECKED: NJK

INDIANA DEPARTMENT OF TRANSPORTATION

SUBSTRUCTURE DETAILS
BROOKS SCHOOL ROAD OVER I-69

HORIZONTAL SCALE	BRIDGE FILE
AS NOTED	I69-208-5315B
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File Name: P:\CJD\MK15-469\Bridge\Brooks School Road over I-69\Dwg\Plans\Substructure.dwg Plot Date: 9/17/2015 Plotted By: Moffatt, Andrew J.