

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

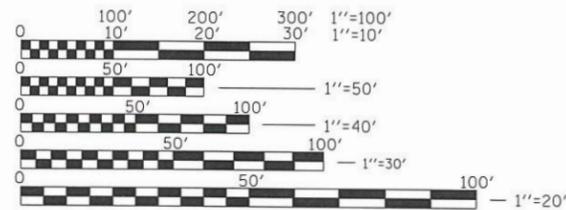
ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VARIOUS	19-00999-00-BR	ST. CLAIR	10	1
GCL JOB NO. 20-6031		CONTRACT NO. 97831		

INDEX OF SHEETS

- COVER SHEET
- GENERAL NOTES AND COMMITMENTS
- SUMMARY OF QUANTITIES
- ROAD CLOSURE DETAILS
- 5.-6. SN 082-3083 / CH 35 / 79TH STREET
- 7.-8. SN 082-3084 / CH 16 / HARTMAN LANE
- 9.-10. SN 082-3088 / CH 28 / WATERLOO ROAD

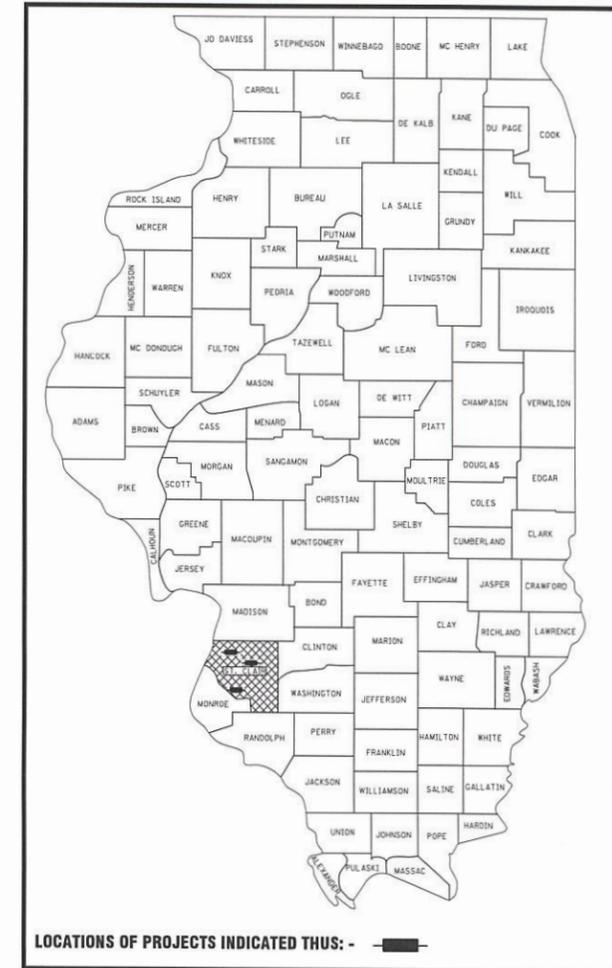
HIGHWAY STANDARDS (SEE SPECIFICATIONS)

- 000001-08 STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
- 701901-08 TRAFFIC CONTROL DEVICES
- BLR 21-9 TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS
- BLR 22-7 TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS

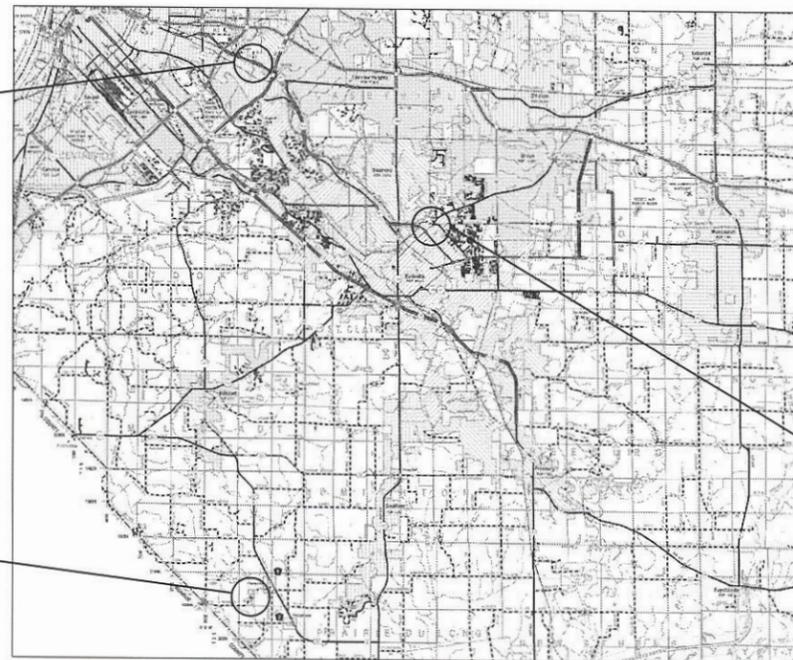


FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES, REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES, IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

**PLANS FOR PROPOSED BRIDGE  
DECK PRESERVATION PROGRAM**  
**FAU 9241 (CH 35 / 79TH STREET) OVER HARDING DITCH**  
**FAU 9169 (CH 16 / HARTMAN LANE) OVER RICHLAND CREEK**  
**FAS 850 (CH 28 / WATERLOO ROAD) OVER PRAIRIE DULONG CREEK**  
**SECTION 19-00999-00-BR**  
**PROJECT NO. P4GU(829)**  
**ST. CLAIR COUNTY**  
**JOB NO. C-98-001-23**



SN 082-3083  
FAU 9241  
(CH 35 / 79TH STREET)  
OVER HARDING DITCH



SN 082-3084  
FAU 9169  
(CH 16 / HARTMAN LANE)  
OVER RICHLAND CREEK

SN 082-3088  
FAS 850  
(CH 28 / WATERLOO ROAD)  
OVER PRAIRIE  
DULONG CREEK

NOT TO SCALE

LOCATIONS:  
 SN 082-3083 : APPROX. 100' SOUTH OF ST. CLAIR AVE. - LENGTH: 71.0' BK.-BK. ABUTS.  
 SN 082-3084 : APPROX. 2.25 MI. SOUTH OF LINCOLN TRAIL - LENGTH: 137.5' BK.-BK. ABUTS.  
 SN 082-3088 : APPROX. 0.8 MI. WEST OF FLORAVILLE - LENGTH: 141.7' BK.-BK. ABUTS.



J.U.L.I.E.  
JOINT UTILITY LOCATING INFORMATION FOR EXCAVATORS  
1-800-892-0123 OR 811 WWW.Illinois1call.com

ST. CLAIR COUNTY  
HIGHWAY DEPARTMENT

APPROVED *[Signature]*  
2/6/2024  
ST. CLAIR COUNTY, COUNTY ENGINEER

PASSED 4/8/2024  
*[Signature]*  
DISTRICT EIGHT ENGINEER OF LOCAL ROADS & STREETS

RELEASING FOR BID  
BASED ON LIMITED  
REVIEW 4/8/2024  
*[Signature]*  
REGION FIVE ENGINEER

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS



*[Signature]*  
 JOHN S. PERADOTTI  
 SALEM, ILLINOIS  
 ILLINOIS LICENSED PROFESSIONAL  
 ENGINEER NO. 062-050510  
 DATE SIGNED: 02/05/2024  
 LIC. EXPIRES: 11/30/2025



GONZALEZ COMPANIES, LLC  
 7 CARPENTER DRIVE  
 SALEM, IL 62886  
 PHONE (618) 222-2221  
 WWW.GONZALEZCOS.COM  
 ILLINOIS PROFESSIONAL DESIGN FIRM 184 004564

CONTRACT NO. 97831

UTILITIES

SN 082-3083

JULIE Design Phase Locate.  
DIG NO. A230250904 -01/25/23

Communications:  
ATT/ DISTRIBUTION  
Email: 611629@ATT.COM

Communications:  
CHARTER/SPECTRUM COMM.  
REP: JORDAN STAAT  
Phone: 314-393-3321

Communications:  
BLUEBIRD NETWORK  
REP: PATRICK HIGGINS  
Phone: 314-458-7922

Electric:  
AMEREN ILLINOIS - (SOUTH)  
Rep: SAM KASSING  
Phone: 618-972-1965

Water and Sewer:  
IL AMERICAN WATER-  
E ST LOUIS  
Rep: BRENT O'NEILL  
Phone: 859-321-8238

Water and Sewer:  
METRO EAST SANITARY DISTRICT  
Rep: CHARLIE JUNEAU  
Phone: 859-656-0900

Public Transit:  
BI-STATE DEVELOPMENT AGENCY  
Rep: STEVE K.  
Phone: 314-982-1400

UTILITIES

SN 082-3084

JULIE Design Phase Locate  
DIG NO. A230250927 01/25/23

Communications:  
CHARTER/SPECTRUM COMM.  
REP: JORDAN STAAT  
Phone: 314-393-3321

Electric:  
AMEREN ILLINOIS - (SOUTH)  
Rep: SAM KASSING  
Phone: 618-972-1965

Water and Sewer:  
IL AMERICAN WATER-  
E ST. LOUIS  
Rep: BRENT O'NEILL  
Phone: 859-321-8235

Storm Sewer:  
VILLAGE OF SHILOH  
Rep: CHRIS ETLING  
Phone: 618-410-6737

ST. CLAIR TOWNSHIP:  
Rep: RON STUCKEL  
Phone: 618-234-8898

UTILITIES

SN 082-3088

JULIE Design Phase Locate  
DIG NO. A230250913 01/25/23

Communications:  
FRONTIER COMMUNICATIONS  
REP: KALIN HINSHAW  
Phone: 815-895-1515

Electric:  
AMEREN ILLINOIS - (SOUTH)  
Rep: SAM KASSING  
Phone: 618-972-1965

COMMITMENTS

1. THE CONTRACTOR SHALL NOTIFY ALL EMERGENCY, SCHOOL, AND POSTAL SERVICES OF THE ROAD CLOSURE BEFORE CONSTRUCTION BEGINS.

GENERAL NOTES

1. THIS SECTION SHALL BE CONSTRUCTED ACCORDING TO THE PLANS, THE SPECIAL PROVISIONS, AND THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", ADOPTED JANUARY 1, 2022.
2. ROADWAY CENTERLINE PROFILE ELEVATIONS REFER TO THE FINISHED SURFACE.
3. EXISTING UTILITIES SHOWN ARE LOCATED FROM SURFACE OBSERVATIONS OR INFORMATION PROVIDED BY THE RESPECTIVE UTILITIES AND MUST BE CONSIDERED APPROXIMATE. THERE MAY BE OTHERS, THE EXACT LOCATION OF WHICH ARE UNKNOWN AND NOT SHOWN. THE CONTRACTOR WILL BE RESPONSIBLE FOR NOTIFYING THE RESPECTIVE UTILITIES BEFORE WORK IS BEGUN. FIELD MARKING OF UNDERGROUND UTILITIES MAY BE OBTAINED BY PROVIDING A MINIMUM OF 48 HOURS ADVANCE NOTICE THROUGH THE J.U.L.I.E. SYSTEM BY CALLING 1-800-892-0123 (OR 811), OR BY DIRECT CONTACT WITH NON-MEMBERS OF J.U.L.I.E.
4. FACTORS USED FOR QUANTITY CALCULATIONS ARE AS FOLLOWS:  
HOT-MIX ASPHALT 0.06 TONS/SQ YD/INCH  
BITUMINOUS MATERIALS (TACK COAT) 0.05 LB/SQ FT
5. DO NOT SCALE THESE DRAWINGS.
6. SAW CUTS WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF THE PAY ITEM ASSOCIATED WITH THE WORK.
7. THE CONTRACTOR SHALL NOTIFY ALL EMERGENCY, SCHOOL, AND POSTAL SERVICES OF THE ROAD CLOSURE BEFORE CONSTRUCTION BEGINS.

**HOT-MIX ASPHALT MIXTURE REQUIREMENTS**

MIXTURE USE:	WATERPROOFING	SMA SURFACE	HMA SURFACE
AC/PG:	SBS PG 70-28	SBS PG 70-28	PG 64-22
DESIGN AIR VOIDS:	4.0% @ Ndes=50	4.0% @ Ndes=50	4.0% @ Ndes=70
MIXTURE COMPOSITION:	IL 4.75	IL 9.5	IL 9.5
FRICTION AGGREGATE:	NA	MIXTURE "C"	MIXTURE "C"

CH 35 (79TH ST.)  
SN 082-3083

CH 16 (HARTMAN LN.)  
SN 082-3084

CH 28 (WATERLOO RD.)  
SN 082-3088

DESIGN CLASSIFICATION: MINOR COLLECTOR  
ADT<sub>2018</sub>: 2,850  
DESIGN SPEED: 50 MPH

MAJOR COLLECTOR  
10,150  
50 MPH

MAJOR COLLECTOR  
1,550  
50 MPH

 **GONZALEZ COMPANIES, LLC**  
7 CARPENTER DRIVE  
SALEM, IL 62881  
PHONE (618) 222-2221  
www.gonzalezcos.com  
ILLINOIS PROFESSIONAL DESIGN FIRM 184.004564

DESIGNED	- GLH	REVISED	-
DRAWN	- JMW/JWC	REVISED	-
CHECKED	- JSP	REVISED	-
DATE	- 02/05/24	REVISED	-

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

**GENERAL NOTES AND COMMITMENTS**

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VARIOUS	19-00999-00-BR	ST. CLAIR	10	2
CONTRACT NO. 97831				
GCI JOB NO. 20-6031				

SUMMARY OF QUANTITES						
			TOTAL PROJECT	CH 35 (79TH ST.) SN 082-3083	CH 16 (HARTMAN LN.) SN 082-3084	CH 28 (WATERLOO RD.) SN 082-3088
CODE NO.	ITEM	UNIT	QUANTITY	QUANTITY	QUANTITY	QUANTITY
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	196	0	0	196
40604052	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N70	TON	78	0	0	78
40605020	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, 9.5, MIX "C", N50	TON	64	23	41	0
58100210	FULL LANE SEALANT WATERPROOFING SYSTEM	SQ YD	709	253	456	0
58300100	PORTLAND CEMENT MORTAR FAIRING COURSE	FOOT	2295	497	958	840
67100100	MOBILIZATION	L SUM	1	NA	NA	NA
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	105	35	35	35
* 78000400	THREMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	319	142	177	0
X7010218	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	EACH	3	1	1	1
Z0004556	HOT-MIX ASPHALT SURFACE REMOVAL (DECK)	SQ YD	1145	253	456	436
Z0017300	DOWEL REPAIR	EACH	50	8	21	21
Z0029300	GROUT REPAIR	FOOT	30	0	15	15
Z0032700	KEYWAY REPAIR	FOOT	575	125	240	210

\* SPECIALTY ITEMS

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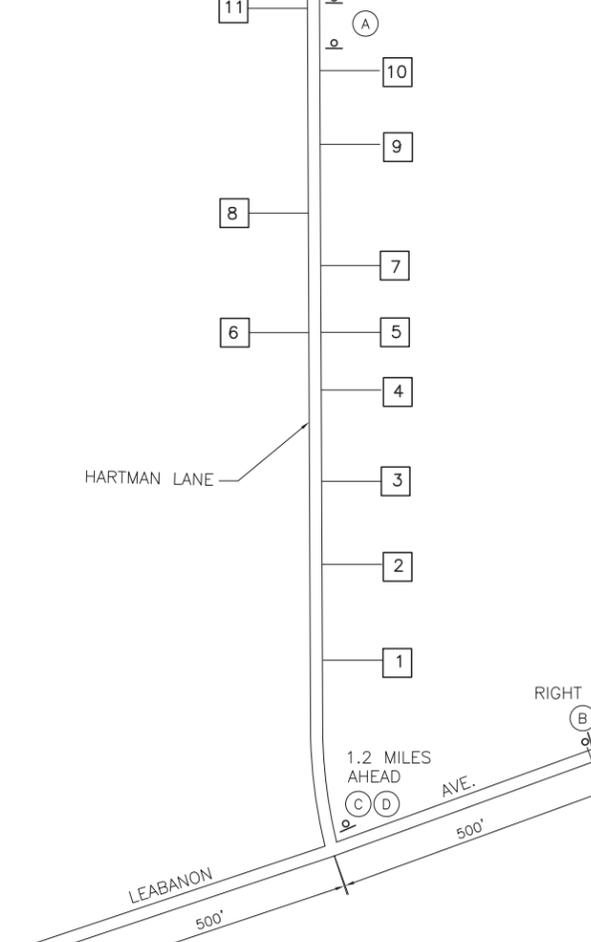
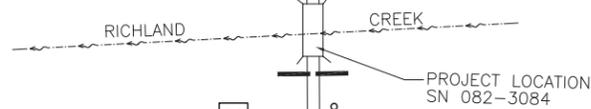
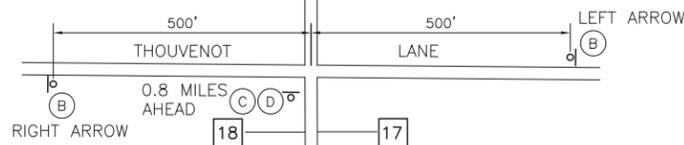
**GONZALEZ COMPANIES, LLC**  
 7 CARPENTER DRIVE  
 SALEM, IL 62881  
 PHONE (618) 222-2221  
 www.gonzalezcos.com  
 ILLINOIS PROFESSIONAL DESIGN FIRM 184.004564

DESIGNED - GLH	REVISED -
DRAWN - JMW/JWC	REVISED -
CHECKED - JSP	REVISED -
DATE - 02/05/24	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

**SUMMARY OF QUANTITIES**

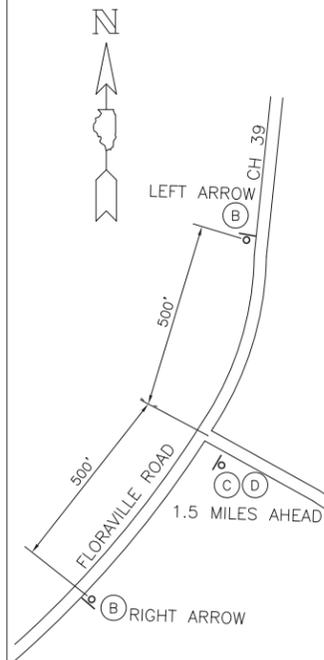
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VARIOUS	19-00999-00-BR	ST. CLAIR	10	3
CONTRACT NO. 97831				
GCI JOB NO. 20-6031				



### ROAD CLOSURE PLAN - HARTMAN LANE

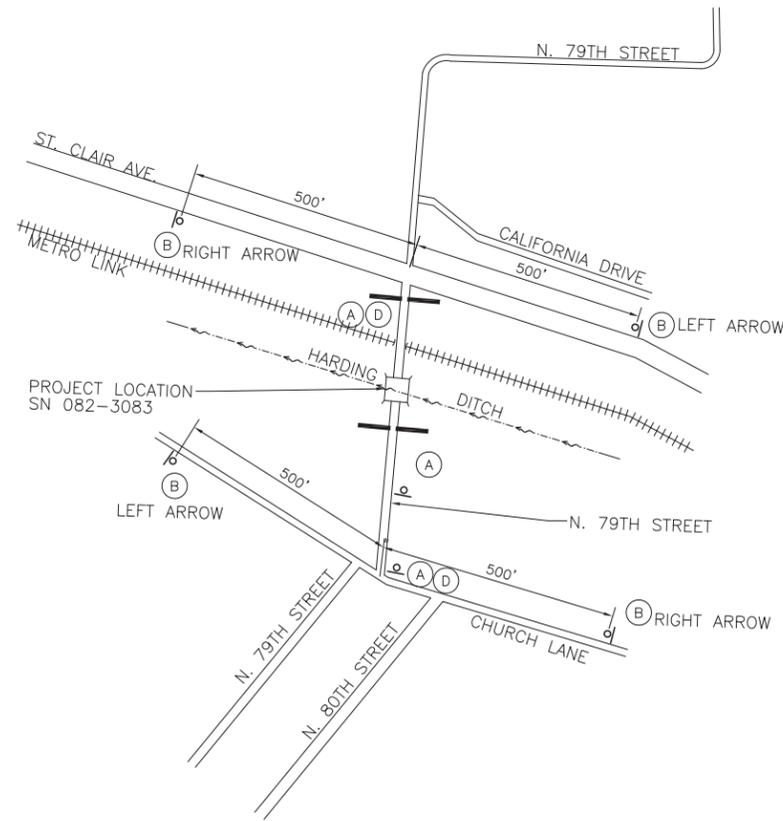
N.T.S.

- 18. DURHAM DR.
- 17. HAVERFORD DR.
- 16. CLAIRMONT DR.
- 15. DEER SPRINGS TRAIL
- 14. WEST WATERS EDGE DR
- 13. RACHELS WAY
- 12. SANDPIPER DR.
- 11. RAVEN OAK DR.
- 10. HAGEN LAKE RD.
- 9. ELLINGTON DR.
- 8. PRAIRIE VIEW RD.
- 7. RICHLAND PRAIRIE BLVD.
- 6. COUNTRY VIEW DR.
- 5. WESTPLANK DR.
- 4. COUNTRY RD.
- 3. STRAWBRIDGE DR.
- 2. GREENFIELD DR.
- 1. ROCKWOOD DR.



### ROAD CLOSURE PLAN - WATERLOO ROAD

N.T.S.



### ROAD CLOSURE PLAN - N. 79TH STREET

N.T.S.

## LEGEND

SYMBOL



REQUIRED TRAFFIC CONTROL FEATURE / DEVICES

PER BLR 21-9:  
"ROAD CLOSED AHEAD"  
"ROAD CLOSED 500 FT"  
AND TYPE III BARRICADES



"ROAD CLOSED AHEAD"

USE APPROPRIATE DIRECTION ARROW



SIGN R11-3A  
"ROAD CLOSED X MILES AHEAD LOCAL TRAFFIC ONLY"



CHANGEABLE MESSAGE SIGN  
"ROAD CLOSED AHEAD"  
"DATE TO DATE"  
"FIND ALT. ROUTE"

NOTES:  
PRIVATE ENTRANCES & FIELD ENTRANCES NOT SHOWN.

DRAWINGS NOT TO SCALE.

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7 CARPENTER DRIVE  
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PHONE (618) 222-2221  
www.gonzalezcos.com  
ILLINOIS PROFESSIONAL DESIGN FIRM #84.004564

DESIGNED	- GLH	REVISED	-
DRAWN	- JMW/JWC	REVISED	-
CHECKED	- JSP	REVISED	-
DATE	- 02/05/24	REVISED	-

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

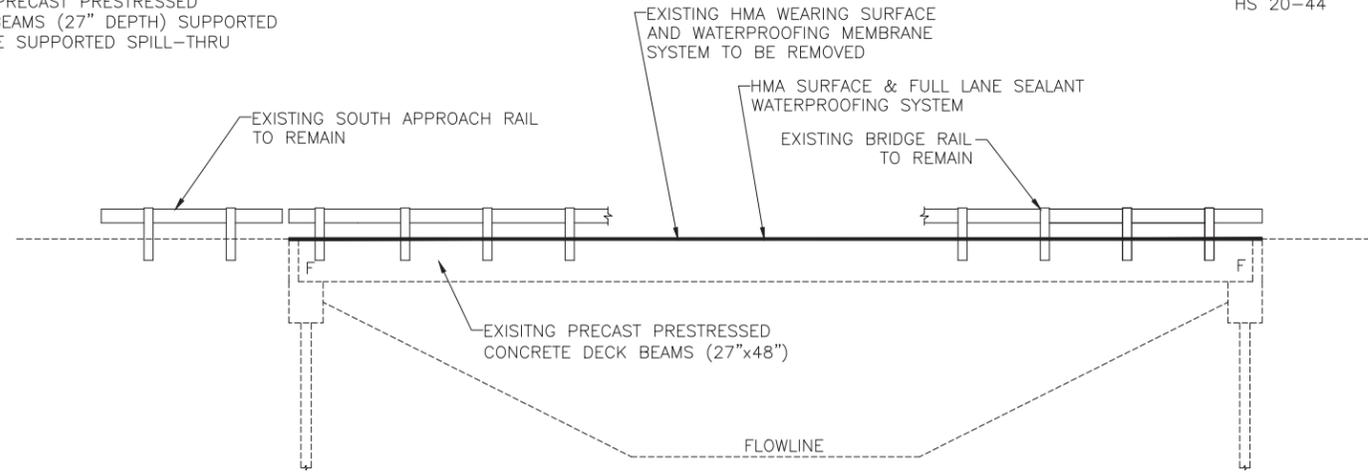
#### ROAD CLOSURE DETAILS

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VARIOUS	19-00999-00-BR	ST. CLAIR	10	4
CONTRACT NO. 97831				
GCI JOB NO. 20-6031				

**EXISTING STRUCTURE:**  
 SN 082-3083 WAS BUILT IN 1991 AS SECTION 86-00192-02-BR AT STA. 18+53. THE EXISTING SINGLE SPAN STRUCTURE CONSISTS OF SIMPLE SPAN PRECAST PRESTRESSED CONCRETE DECK BEAMS (27" DEPTH) SUPPORTED ON CONCRETE PILE SUPPORTED SPILL-THRU ABUTMENTS.

**EXISTING DESIGN SPECIFICATIONS:**  
 AASHTO (1989)

**LOADING**  
 HS 20-44



**ELEVATION**

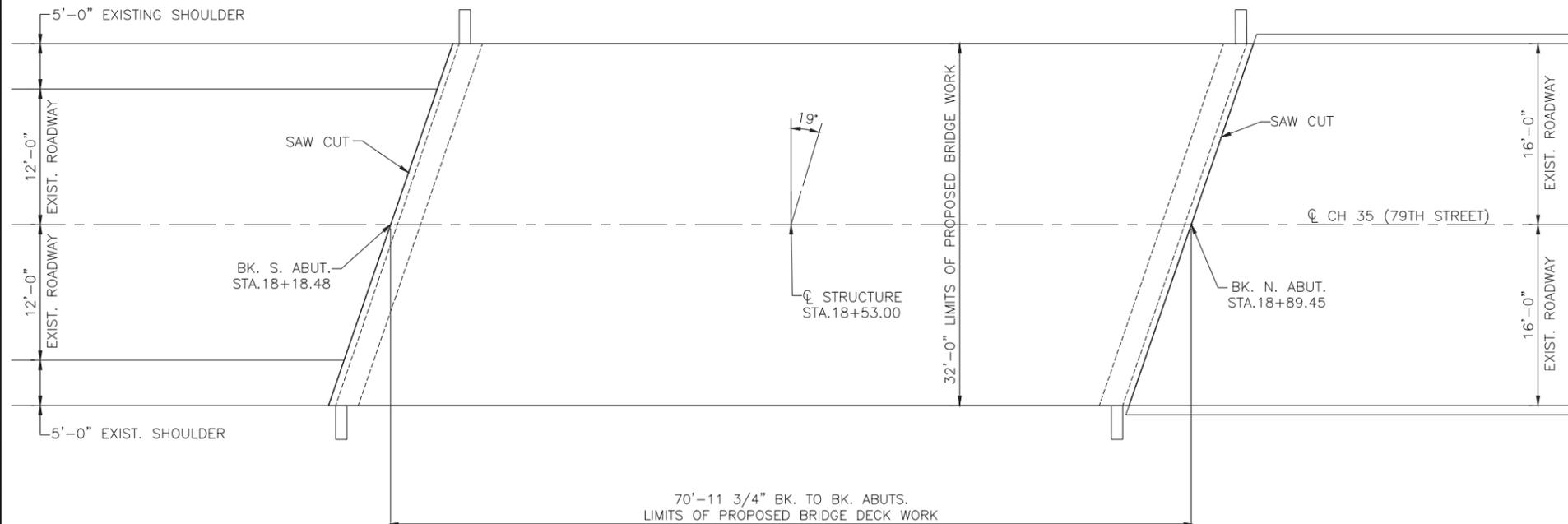
LOOKING WEST

**GENERAL NOTES**

- ELEVATIONS AND DIMENSIONS SHOWN ARE TAKEN FROM EXISTING BRIDGE PLANS. THE EXISTING BRIDGE PLANS ARE AVAILABLE FOR REVIEW AT THE COUNTY HIGHWAY DEPARTMENT OFFICE.
- THE CONTRACTOR SHALL FIELD VERIFY EXISTING DIMENSIONS AND DETAILS AFFECTING NEW CONSTRUCTION AND MAKE NECESSARY APPROVED ADJUSTMENTS PRIOR TO CONSTRUCTION OR ORDERING OF MATERIALS. SUCH VARIATIONS SHALL NOT BE CAUSE FOR ADDITIONAL COMPENSATION FOR A CHANGE IN SCOPE OF THE WORK, HOWEVER, THE CONTRACTOR WILL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED AT THE UNIT PRICE BID FOR THE WORK.
- ALL CONSTRUCTION DEBRIS SHALL BE DISPOSED OF OFFSITE.
- THE QUANTITY FOR "DOWEL REPAIR" HAS BEEN ESTIMATED AT 25% OF ALL THE DOWELS. THE ENGINEER SHALL DETERMINE THE ACTUAL QUANTITIES AFTER THE REMOVAL OF HMA WEARING SURFACE.
- THE QUANTITY FOR "KEYWAY REPAIR" HAS BEEN ESTIMATED AT 25% OF ALL KEYWAYS. THE ENGINEER SHALL DETERMINE THE ACTUAL QUANTITIES AFTER REMOVAL OF THE HMA WEARING SURFACE.
- CONTRACTOR SHALL REMOVE ENTIRE HMA SURFACE COURSE AND WATERPROOFING MEMBRANE SYSTEM. ACCORDING TO THE EXISTING BRIDGE PLANS, THE EXISTING HMA SURFACE AND WATERPROOFING MEMBRANE SYSTEM THICKNESS VARIES WITH MAXIMUM AT THE SUPPORTS (ABUTMENTS AND PIERS) TO MINIMUM AT THE CENTER OF THE SPANS. CONTRACTOR SHALL FIELD VERIFY THICKNESS.

**BILL OF MATERIALS**  
 SN 082-3083 CH 35 (79TH STREET) OVER HARDING DITCH

CODE NO.	ITEM	UNIT	QUANTITY
40605020	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, 9.5, MIX "C", N50	TON	23
58100210	FULL LANE SEALANT WATERPROOFING SYSTEM	SQ YD	253
58300100	PORTLAND CEMENT MORTAR FAIRING COURSE	FOOT	497
78000400	THREMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	142
X7010218	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	EACH	1
Z0004556	HOT-MIX ASPHALT SURFACE REMOVAL (DECK)	SQ YD	253
Z0017300	DOWEL REPAIR	EACH	8
Z0032700	KEYWAY REPAIR	FOOT	125



**PLAN**

**NOTE:**  
 EXISTING BRIDGE RAIL AND APPROACH RAIL NOT SHOWN ON THIS VIEW



I CERTIFY THAT TO THE BEST OF MY KNOWLEDGE, INFORMATION AND BELIEF, THE REPAIR DETAILS ARE STRUCTURALLY ADEQUATE FOR THE DESIGN LOADING SHOWN ON THE PLANS. THE DESIGN IS AN ECONOMICAL ONE FOR THE STYLE OF THE STRUCTURE AND COMPLIES WITH THE REQUIREMENTS OF CURRENT AASHTO STANDARD CERTIFICATION FOR HIGHWAY BRIDGES



*John S. Perdaotti*

JOHN S. PERDAOTTI  
 SALEM, ILLINOIS  
 ILLINOIS LICENSED STRUCTURAL  
 ENGINEER NO. 081-005671  
 DATE SIGNED: 02/05/2024  
 LIC. EXPIRES: 11/30/2024

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**gonzalez**  
 GONZALEZ COMPANIES, LLC  
 7 CARPENTER DRIVE  
 SALEM, IL 62881  
 PHONE (618) 222-2221  
 www.gonzalezcos.com  
 ILLINOIS PROFESSIONAL DESIGN FIRM 184.004564

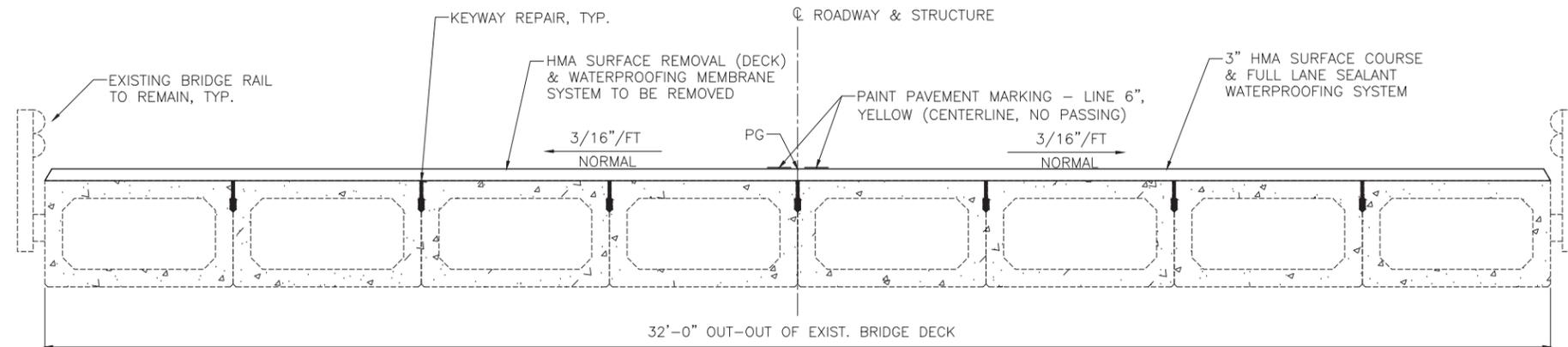
DESIGNED - GLH	REVISED -
DRAWN - JMW/JWC	REVISED -
CHECKED - JSP	REVISED -
DATE - 02/05/24	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

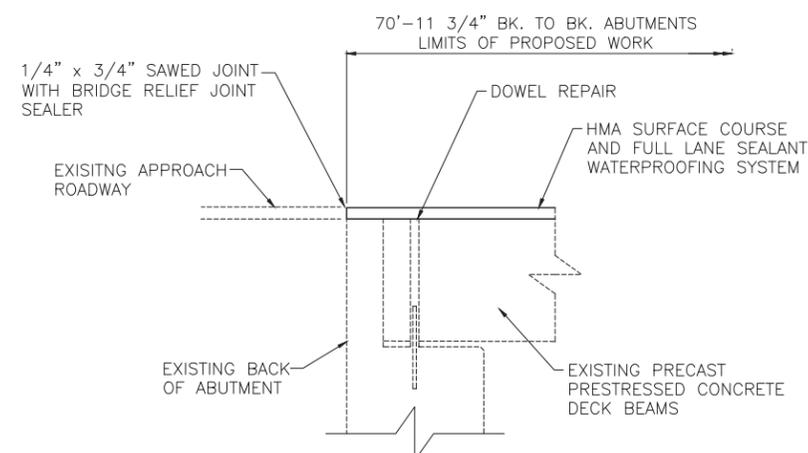
**GENERAL PLAN & ELEVATION**

SN 082-3083 / CH 35 / 79TH STREET

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH 35	19-00999-00-BR	ST. CLAIR	10	5
CONTRACT NO. 97831				
GCT JOB NO. 20-6031				



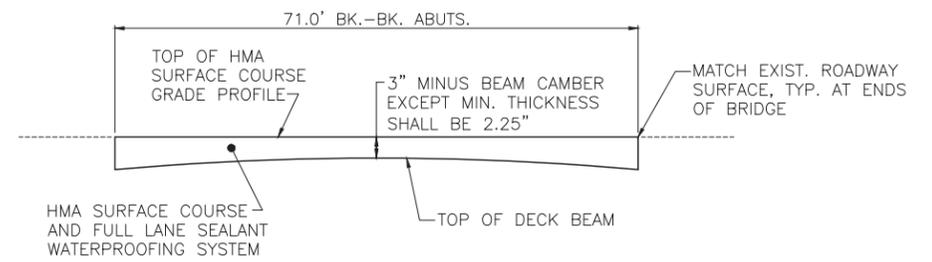
**SECTION THRU BRIDGE DECK**



**SECTION AT ABUTMENTS**



**LEGEND - FULL LANE SEALANT WATERPROOFING SYSTEM**



**ANTICIPATED HMA WEARING SURFACE PROFILE**

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# GENERAL NOTES

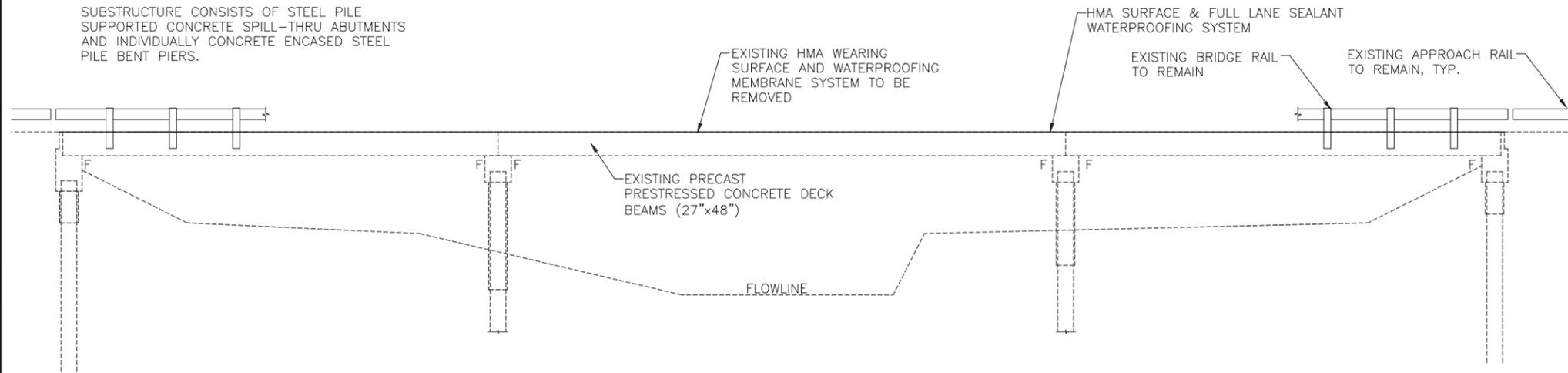
- ELEVATIONS AND DIMENSIONS SHOWN ARE TAKEN FROM EXISTING BRIDGE PLANS. THE EXISTING BRIDGE PLANS ARE AVAILABLE FOR REVIEW AT THE COUNTY HIGHWAY DEPARTMENT OFFICE.
- THE CONTRACTOR SHALL FIELD VERIFY EXISTING DIMENSIONS AND DETAILS AFFECTING NEW CONSTRUCTION AND MAKE NECESSARY ADJUSTMENTS PRIOR TO CONSTRUCTION OR ORDERING OF MATERIALS. SUCH VARIATIONS SHALL NOT BE CAUSE FOR ADDITIONAL COMPENSATION FOR A CHANGE IN SCOPE OF THE WORK, HOWEVER, THE CONTRACTOR WILL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED AT THE UNIT PRICE BID FOR THE WORK.
- ALL CONSTRUCTION DEBRIS SHALL BE DISPOSED OF OFFSITE.
- THE QUANTITY FOR "DOWEL REPAIR" HAS BEEN ESTIMATED AT 25% OF ALL THE DOWELS. THE ENGINEER SHALL DETERMINE THE ACTUAL QUANTITIES AFTER THE REMOVAL OF HMA WEARING SURFACE.
- THE QUANTITY FOR "GROUT REPAIR" HAS BEEN ESTIMATED AT 25% OF OF JOINT LENGTH FOR PIER BENTS ONLY. THE ENGINEER SHALL DETERMINE THE ACTUAL QUANTITIES AFTER THE REMOVAL OF THE HMA WEARING SURFACE.
- THE QUANTITY FOR "KEYWAY REPAIR" HAS BEEN ESTIMATED AT 25% OF ALL KEYWAYS. THE ENGINEER SHALL DETERMINE THE ACTUAL QUANTITIES AFTER REMOVAL OF THE HMA WEARING SURFACE.
- CONTRACTOR SHALL REMOVE ENTIRE HMA SURFACE COURSE AND WATERPROOFING MEMBRANE SYSTEM. ACCORDING TO THE EXISTING BRIDGE PLANS, THE EXISTING HMA SURFACE AND WATERPROOFING MEMBRANE SYSTEM THICKNESS VARIES WITH MAXIMUM AT THE SUPPORTS (ABUTMENTS AND PIERS) TO MINIMUM AT THE CENTER OF THE SPANS. CONTRACTOR SHALL FIELD VERIFY THICKNESS.

**EXISTING STRUCTURE:**  
 SN 082-3084 WAS BUILT IN 1992 AS SECTION 88-00269-02-PV AT STA. 63+20. THE EXISTING THREE (3) SPAN STRUCTURE CONSISTS OF SIMPLE SPAN PRECAST STRESSED CONCRETE DECK BEAMS (27" DEPTH) SUPERSTRUCTURE.

SUBSTRUCTURE CONSISTS OF STEEL PILE SUPPORTED CONCRETE SPILL-THRU ABUTMENTS AND INDIVIDUALLY CONCRETE ENCASED STEEL PILE BENT PIERS.

**EXISTING DESIGN SPECIFICATIONS:**  
 AASHTO (1983), 1984 THRU 1986 INTERIMS

**LOADING**  
 HS 20-44

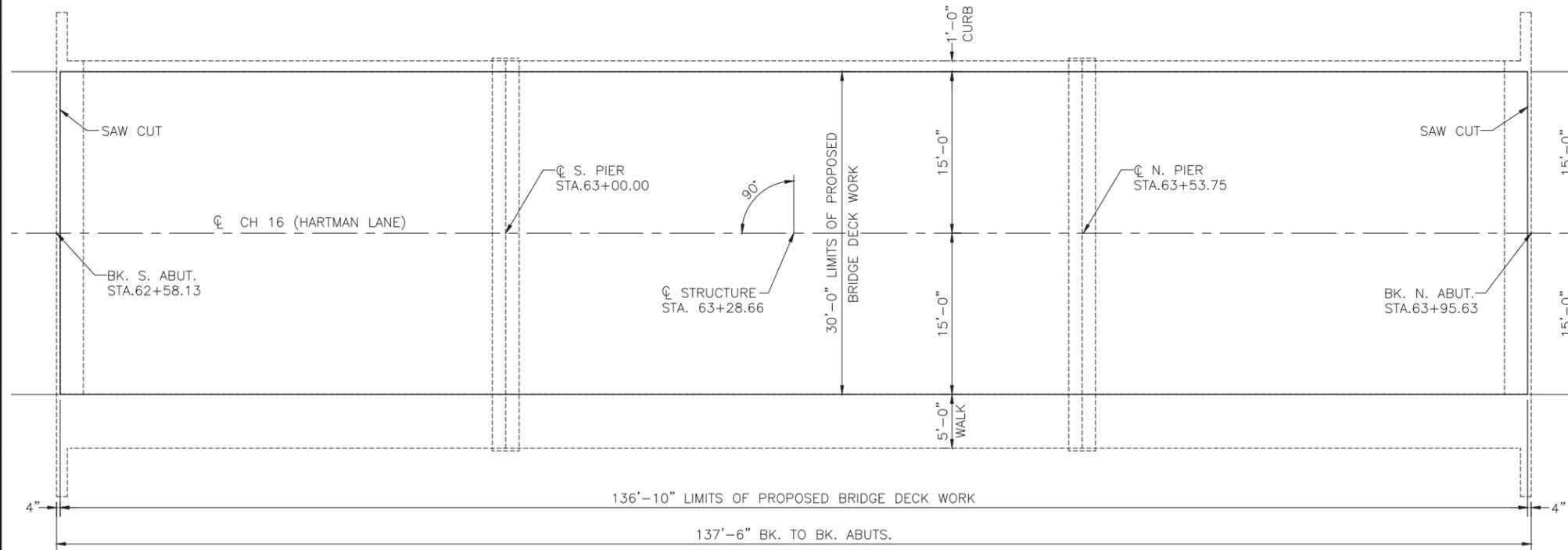


## ELEVATION

LOOKING WEST

## BILL OF MATERIALS SN 082-3084 CH 16 (HARTMAN LANE) OVER RICHLAND CREEK

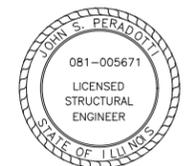
CODE NO.	ITEM	UNIT	QUANTITY
40605020	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, 9.5, MIX "C", N50	TON	41
58100210	FULL LANE SEALANT WATERPROOFING SYSTEM	SQ YD	456
58300100	PORTLAND CEMENT MOTAR FAIRING COURSE	FOOT	958
78000400	THREMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	177
X7010218	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	EACH	1
Z0004556	HOT-MIX ASPHALT SURFACE REMOVAL (DECK)	SQ YD	456
Z0017300	DOWEL REPAIR	EACH	21
Z0029300	GROUT REPAIR	FOOT	15
Z0032700	KEYWAY REPAIR	FOOT	240



## PLAN

**NOTE:**  
 EXISTING BRIDGE RAIL AND APPROACH RAIL NOT SHOWN ON THIS VIEW

I CERTIFY THAT TO THE BEST OF MY KNOWLEDGE, INFORMATION AND BELIEF, THE REPAIR DETAILS ARE STRUCTURALLY ADEQUATE FOR THE DESIGN LOADING SHOWN ON THE PLANS. THE DESIGN IS AN ECONOMICAL ONE FOR THE STYLE OF THE STRUCTURE AND COMPLIES WITH THE REQUIREMENTS OF CURRENT AASHTO STANDARD CERTIFICATION FOR HIGHWAY BRIDGES



*John S. Peradotti*

JOHN S. PERADOTTI  
 SALEM, ILLINOIS  
 ILLINOIS LICENSED STRUCTURAL  
 ENGINEER NO. 081-005671  
 DATE SIGNED: 02/05/2024  
 LIC. EXPIRES 11/30/2024

**gonzalez**  
 GONZALEZ COMPANIES, LLC  
 7 CARPENTER DRIVE  
 SALEM, IL 62881  
 PHONE (618) 222-2221  
 www.gonzalezcos.com  
 ILLINOIS PROFESSIONAL DESIGN FIRM 184.004564

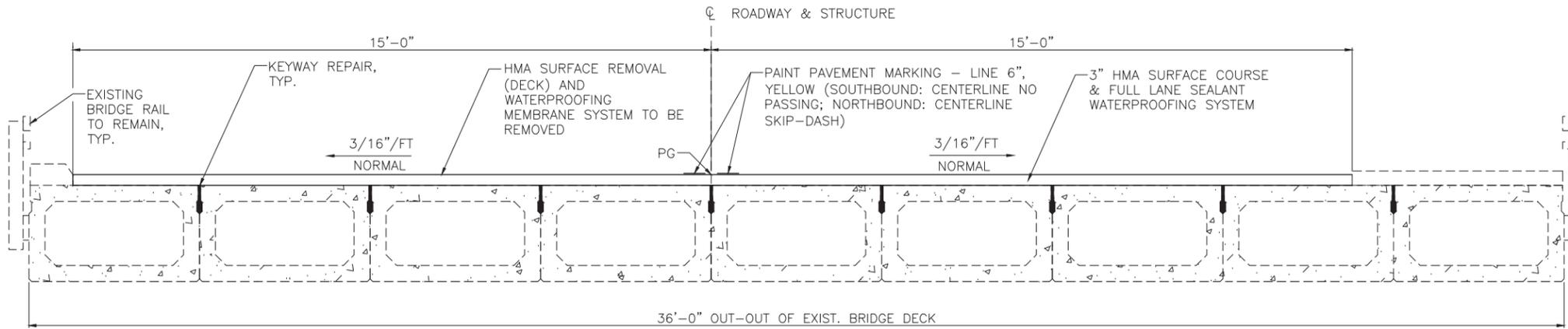
DESIGNED - GLH	REVISED -
DRAWN - JMW/JWC	REVISED -
CHECKED - JSP	REVISED -
DATE - 02/05/24	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

GENERAL PLAN & ELEVATION  
 SN 082-3084 / CH 16 / HARTMAN LANE

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH 16	19-00999-00-BR	ST. CLAIR	10	7
CONTRACT NO. 97831				
GCI JOB NO. 20-6031				

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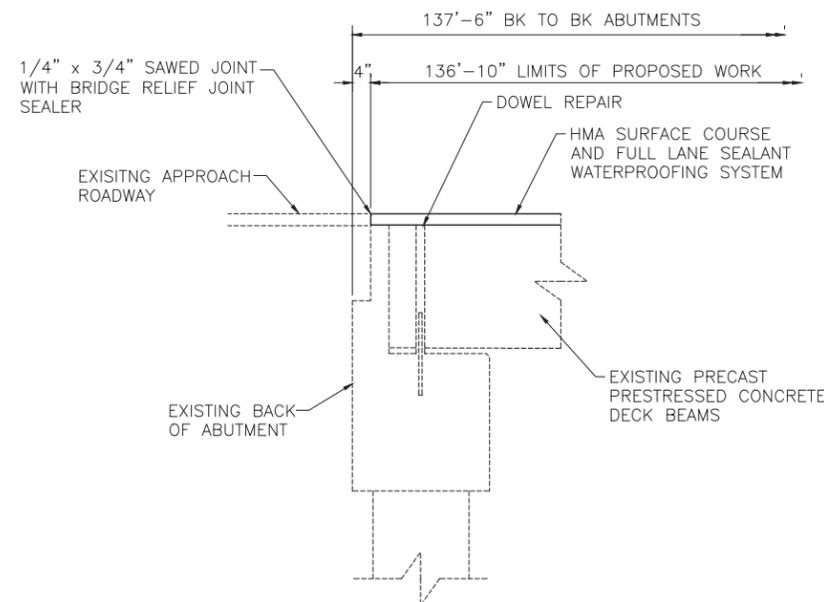


**SECTION THRU BRIDGE DECK**

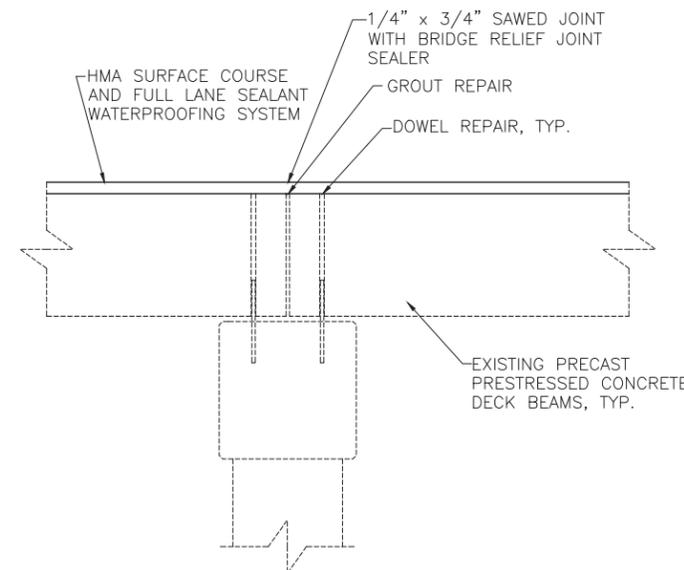
(LOOKING NORTH)



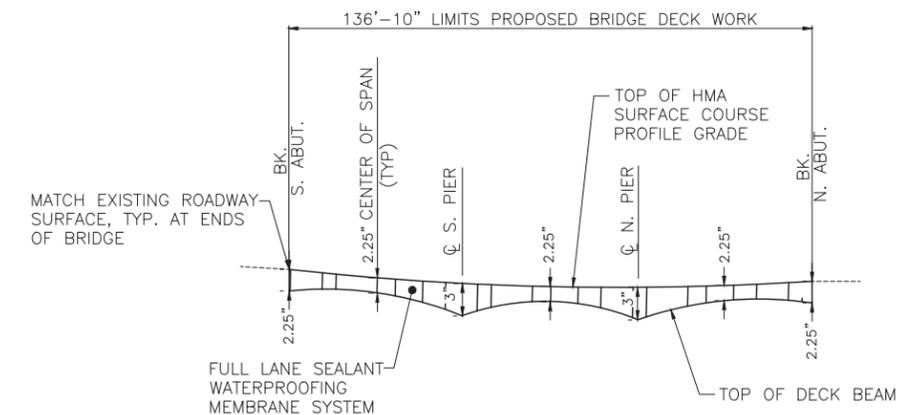
**LEGEND - FULL LANE SEALANT WATERPROOFING SYSTEM**



**SECTION AT ABUTMENTS**



**SECTION AT PIERS**



**ANTICIPATED HMA WEARING SURFACE PROFILE**

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**EXISTING STRUCTURE:**  
 SN 082-3088 WAS BUILT IN 1994 AS SECTION  
 90-00145-04-BR AT STA. 45+49.77. THE EXISTING THREE  
 (3) SPAN STRUCTURE CONSISTS OF SIMPLE SPAN PRECAST  
 PRESTRESSED CONCRETE DECK BEAMS (27" DEPTH)  
 SUPERSTRUCTURE.

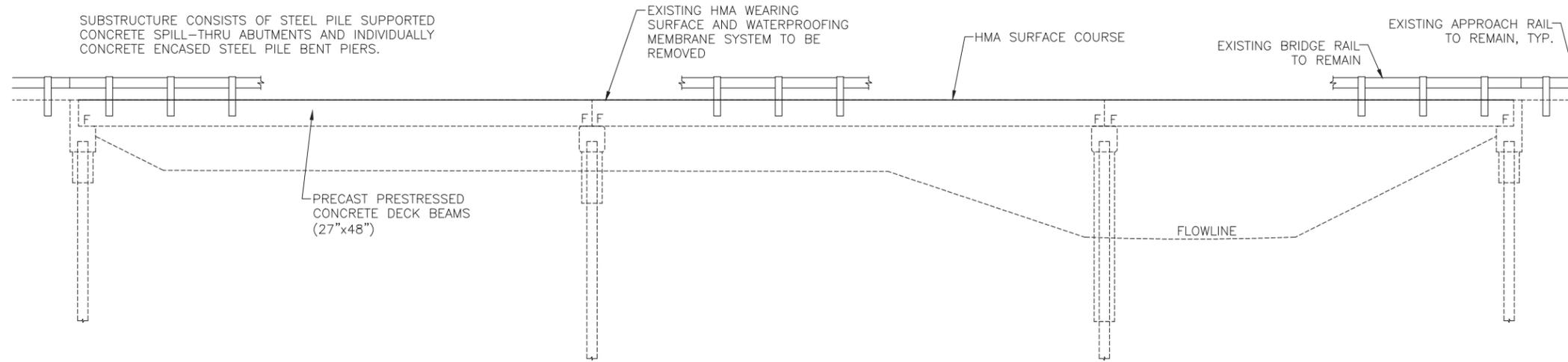
SUBSTRUCTURE CONSISTS OF STEEL PILE SUPPORTED  
 CONCRETE SPILL-THRU ABUTMENTS AND INDIVIDUALLY  
 CONCRETE ENCASED STEEL PILE BENT PIERS.

**EXISTING DESIGN SPECIFICATIONS:**  
 1977 AASHTO & 1978, 1979, & 1980 INTERIMS

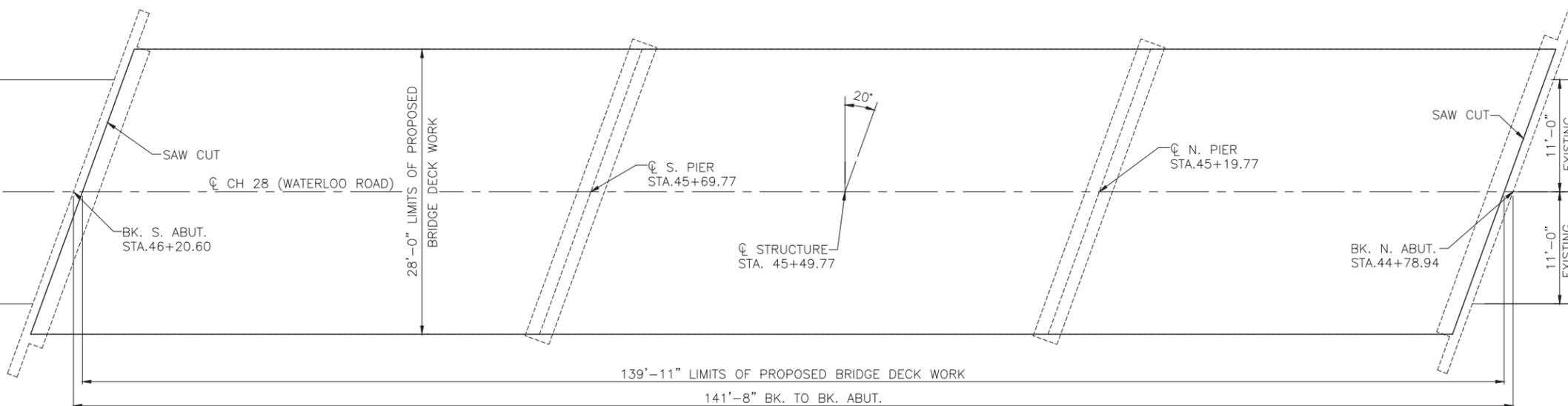
**LOADING**  
 HS 20-44

## GENERAL NOTES

- ELEVATIONS AND DIMENSIONS SHOWN ARE TAKEN FROM EXISTING BRIDGE PLANS. THE EXISTING BRIDGE PLANS ARE AVAILABLE FOR REVIEW AT THE COUNTY HIGHWAY DEPARTMENT OFFICE.
- THE CONTRACTOR SHALL FIELD VERIFY EXISTING DIMENSIONS AND DETAILS AFFECTING NEW CONSTRUCTION AND MAKE NECESSARY APPROVED ADJUSTMENTS PRIOR TO CONSTRUCTION OR ORDERING OF MATERIALS. SUCH VARIATIONS SHALL NOT BE CAUSE FOR ADDITIONAL COMPENSATION FOR A CHANGE IN SCOPE OF THE WORK, HOWEVER, THE CONTRACTOR WILL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED AT THE UNIT PRICE BID FOR THE WORK.
- ALL CONSTRUCTION DEBRIS SHALL BE DISPOSED OF OFFSITE.
- THE QUANTITY FOR "DOWEL REPAIR" HAS BEEN ESTIMATED AT 25% OF ALL THE DOWELS. THE ENGINEER SHALL DETERMINE THE ACTUAL QUANTITIES AFTER THE REMOVAL OF HMA WEARING SURFACE.
- THE QUANTITY FOR "GROUT REPAIR" HAS BEEN ESTIMATED AT 25% OF JOINT LENGTH FOR PIER BENTS ONLY. THE ENGINEER SHALL DETERMINE THE ACTUAL QUANTITIES AFTER THE REMOVAL OF THE HMA WEARING SURFACE.
- THE QUANTITY FOR "KEYWAY REPAIR" HAS BEEN ESTIMATED AT 25% OF ALL KEYWAYS. THE ENGINEER SHALL DETERMINE THE ACTUAL QUANTITIES AFTER REMOVAL OF THE HMA WEARING SURFACE.
- CONTRACTOR SHALL REMOVE ENTIRE HMA SURFACE COURSE AND WATERPROOFING MEMBRANE SYSTEM. ACCORDING TO THE EXISTING BRIDGE PLANS, THE EXISTING HMA SURFACE AND WATERPROOFING MEMBRANE SYSTEM THICKNESS VARIES WITH MAXIMUM AT THE SUPPORTS (ABUTMENTS AND PIERS) TO MINIMUM AT THE CENTER OF THE SPANS. CONTRACTOR SHALL FIELD VERIFY THICKNESS.



## ELEVATION



## PLAN

**NOTE:**  
 EXISTING BRIDGE RAIL AND APPROACH GUARDRAIL  
 NOT SHOWN ON THIS VIEW

BILL OF MATERIALS			
SN 082-3088 CH 28 (WATERLOO ROAD) OVER PRAIRIE DULONG CREEK			
CODE NO.	ITEM	UNIT	QUANTITY
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	196
40604052	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N70	TON	78
58300100	PORTLAND CEMENT MORTAR FAIRING COURSE	FOOT	840
X7010218	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	EACH	1
Z0004556	HOT-MIX ASPHALT SURFACE REMOVAL (DECK)	SQ YD	436
Z0017300	DOWEL REPAIR	EACH	21
Z0029300	GROUT REPAIR	FOOT	15
Z0032700	KEYWAY REPAIR	FOOT	210

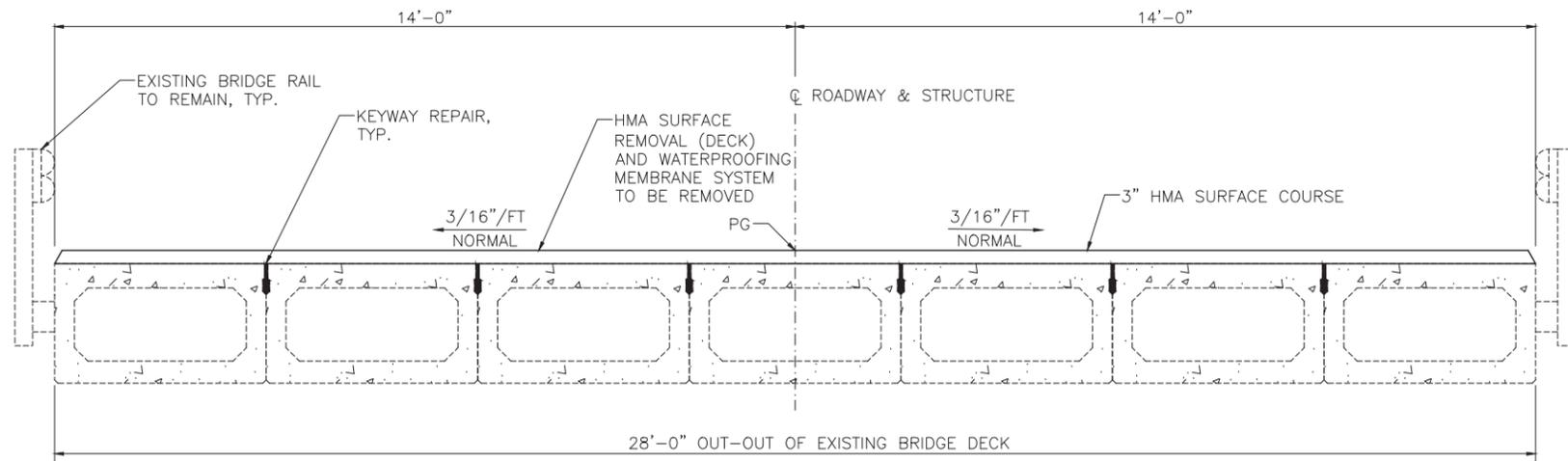


*John S. Perdaotti*

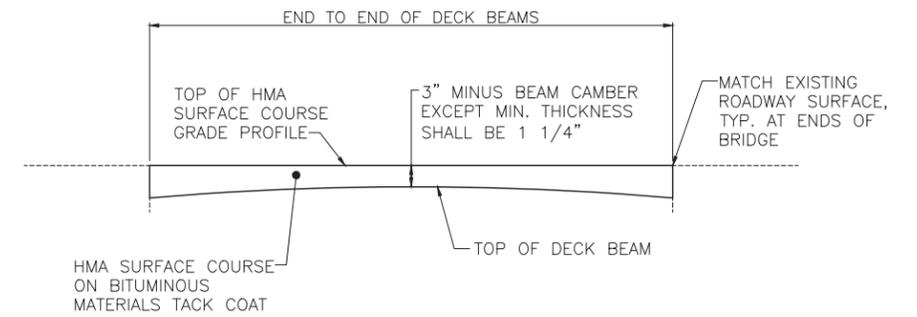
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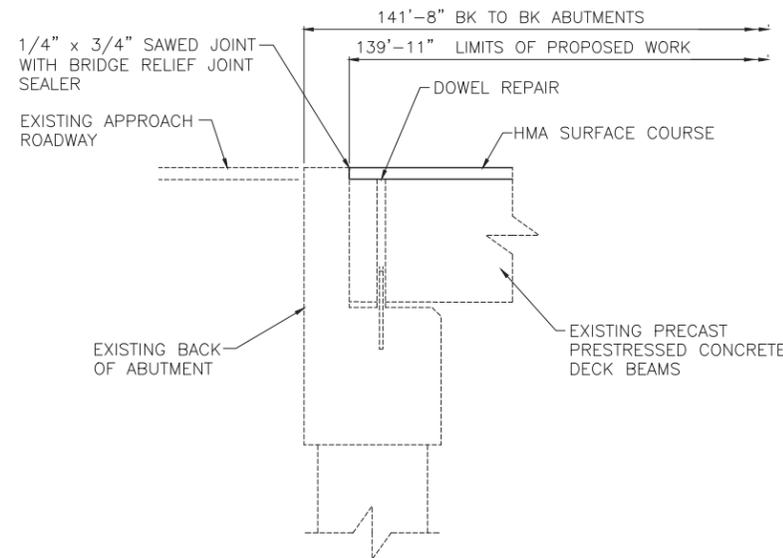
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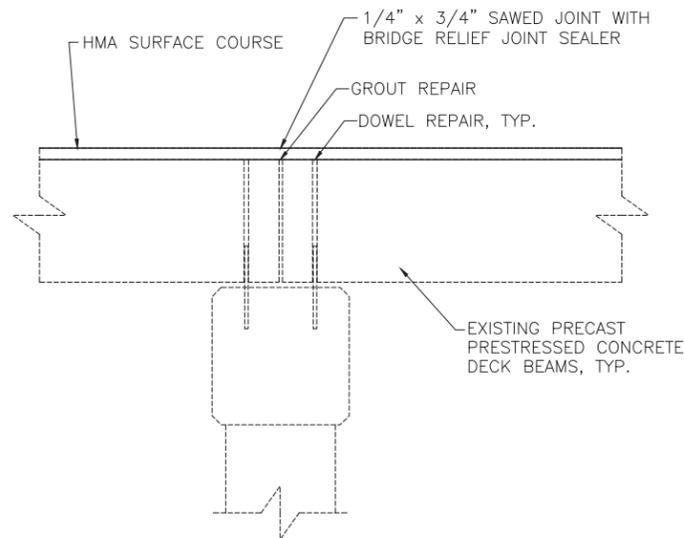
**SECTION THRU BRIDGE DECK**



**ANTICIPATED HMA WEARING SURFACE PROFILE**  
SINGLE SPAN CONDITION SHOWN, EACH SPAN SIMILAR



**SECTION AT ABUTMENTS**



**SECTION AT PIERS**

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