

## INDEX OF SHEETS

2 Coler SiEt





HIGHWAY STANDARDS
000001-06 STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS



7014111-99 LANE CLOSURE, MULTIL ANE, AT ENTRAYCE OR EXT RAMP FOR SPEEDS $>=45 M P H$
 T01611-01 URBAN HALF ROAD CLOSURE, MULTLIANE, $2 W$ WTTH MOUNTABLE MEDIAN

$701901-107$ TRAFFIC CONTROL DEVICES
$701206-04$ LANE CLOSURE, 2L, 2W, NIGHT ONLY FOR SPEEDS $~$

$78001-105$ TMPCAL PAVEMENT MARKINGS
$720011-01$ METAL POSSTS FOR SIIGNS, MARKERS AND DELINEATORS
$728001-01$ TELESCOPRG STEEL SIGN SUPPORI
$729001-01$ APPLCATIONS OF TYPES OF ABB METAL POSTS

## REGION 2 / DISTRICT 2 STANDARDS

D2 STANDARD 40.1 TYPICAL APPILCATION FOR ROAD CLOSURE
D2 STANIARO 41.1 YYIICAL PAVEMENT MARKINGS

## GENERAL NOTES

1. THE CONTTACTOR SHALL COORDINATE WTH THE U.S. COAST GUARD AND PROYDE
2. IN ADDTION TO THE REQUIREMENTS OF ARTICLE 17.46 THE CONTRACTOR SHALL ALL BRIDGE DECKS AND B



3. PAVEMENT MARKING SHALL BE DONE ACCORDING TO STANDARD 780001, EXCEPT AS LLows:
4. ALL WORDS, SUCHAS "ONLY SHALL BE 8 FEET HIIGH.
5. ALL NON-FREWAY ARROWS SHALL BE THE LARGE SIZE.
6. ALL NON-FREEWAY AREOWS SHALL BE THE LARGE SIZE. inches, as shown in the detall of typical Lane and edge lines. UNDIVIDED, AND ONE-WAY ROADWAY SHALL EE ACCORDING TO DISTRICT STANDARD

## UTILTTY NOTES

1. THE CONTRACTOR SHALL BE RESPONSILLE FOR PROTECTING UTLLITY PROPERTY FROM CONSTRUCTION OPERATINS AS OUTLINEDIN ARTICLE 107.31 OF THE STAND.
HOURS NOTIC IS REQURED FOR NON EMERGENCY WORK.
2. MEMBERS OF JULIE KNOWN TO BE WTTHIN OR IMMEDATELY ADJACENT TO THE LIMIS OF IMPROVEMEN COMMONWEALTHEDISON COMPANY


TELEPHONE:
ATTN: KALIN HNSHAW 815-899-1515


CABLE TELEVIION:
iNSIGTT COMMUNIC
ASIGHI COMMUNCATIONS
ATTN:MK. WENS, DONNA, ZIES, TOM YUCCAS
${ }^{4} 455 \mathrm{~K}$ KISHWAUKEE STREET SBCAMERTECH COMPANY ATTN: STEVEN HON
2404EIIHON AVE.

Natural gas:
NICOR GAS
NICOR GAS COMPANY
ATTN CONNE LANE 630-983-8676
1844 FERRY ROAD
NAPERVLLE, IL 60563
3. NON MEMBERS OF JULLE KNOWN TO BE WITHIN OR IMMEDIATELY ADAACENT TO THE LIMTTS OF THE

## government:

ATTN: KRISTIE NYDEREK $815-284-5469$
819 DEPOT AVENU
DIXON, II 61021
4. AL Electric lines wil remain energized during construction unless otherwise coordinated



$\times 0900061$ hanorall repairs brioge no. 3
$\not 60042$

CONSTRUCTION STAGING GENERAL NOTES





 EFFE
4. ALL ExIITING SICNING THAT IS Not APpIICABLE WALLLE THE Construction is in
5. THE SIIES OF ALL SIINS Not specified in these plans must be as reourred by
6. AS A MNNMM, ALL AMEER FLLSHHNG LIGHTS THAT ARE REQURED MUST MEET THE


7. The contractor must maintain access to all private ano commercial drivenars

9. THE "IIEWNLL Closed CIUE OTHER SIDE" SION MUST BE PLACED AT THE NEARES

ENNS OF THE ACTUAL Closures.



12. where a hanicicapeo pedestrian ramp is restricteo due to closure, temporary

14. see sugoested maintenance of traffic plan for adottional sioning.
15. Chaneeable Message sions to be proviogo at locations shown on plans or as
oirecten ey THe Enciner.
16. THE Contractor must conouct Mis work in such a maner that emergencr

18. sicn spacing shall be per district detall tc-21.
19. Contractor To be in accordance wir idot stanoros 701306-03, 70131-03.

| pay item | Description | unit | ouantity |
| :---: | :---: | :---: | :---: |
| 70300220 | temporary pavement maring - Line 4" | ғоот | 31,477 |
| 70301000 | work zone pavenent marking removal | Foo | 31,477 |
| 70400100 | temporary concrete barriler | ғоот | 2.663 |
| 70400200 | relocation temporary concrete barilir | Fо0т | 2.492 |
| 70500630 | temporary teaffic barrier terminal, type 3 | EACH | 4 |
| 70600250 | IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3 | EACH | 7 |
| 7060035 | IMPACT ATTENUATORS, TEMPORARY <br> (NON-REDIRECTIVE), TEST LEVEL 3, NARROW | ${ }_{\text {EACH }}$ | 3 |
| 78001110 | PERMANENT Pavement Marking - LINE 4" | F00T | 11.092 |
| $\times 0327880$ | Pavement marking removal | Fо0т | 11,092 |
| $\times 7010216$ | affic control ano protection, (sPecial) | เs | 1 |



STRUCTURE NOS. 081-0038, 081-0039, AND 081-0040 OVER ROCK RIVER (LOOKING NORTH)

$$
\begin{array}{llll}
\text { STAGE } 1 & \text { REMOVAL DIAGRAM } \\
\text { STA. } & 28+74 & \text { TO STA. } & 21+51
\end{array}
$$

STA. $40+95$ TO STA. $54+21$


STRUCTURE NOS. 081-0038, 081-0039, AND 081-0040 OVER ROCK RIVER (LOOKING NORTH)

\[

\]



STRUCTURE NOS. O81-0038, 081-0039, AND 081-0040 OVER ROCK RIVER (LOOKING NORTH)

$$
\begin{array}{llll}
\text { STAGE } 2 & \text { REMOVAL DIAGRAM } \\
\hline \text { STA. } & 28+74 & \text { TO } & \text { STA. } \\
\text { STA } & 21+51 \\
\text { STA. } & 40+95 & \text { TO } & \text { STA. }
\end{array}
$$



STRUCTURE NOS. 081-0038, 081-0039, AND 081-0040 OVER ROCK RIVER (LOOKING NORTH)

$$
\begin{array}{lllll}
\text { STAGE } 2 \text { CONSTRUCTION DIAGRAM } \\
\hline \text { STA. } & 28+74 & \text { TO } & \text { STA. } 21+51 \\
\text { STA. } & 40+95 & \text { TO } & \text { STA. } & 54+21
\end{array}
$$












Note: Callouts in sections thru abutments and
piers reference key notes on sheet 1 of 18 .



TOTAL BILL OF MATERIAL

| ITEM | UNIT | SUPER | SUB | TAL |
| :---: | :---: | :---: | :---: | :---: |
| Bituminous Materials (Tack Coat) | Pound | 237 |  | 237 |
| Hot-Mix Asphalt Surface Removal - Butt Joint | SqYd | 527 |  | 527 |
| Hot-Mix Asphalt Surface Course, Mix "D", N70 | Ton | 44 |  | 44 |
| Protective Coat | Sq Yd | 4344 |  | , |
| Combination Curb and Gutter Removal | foot | 90 |  | 90 |
| Savi Cuts | Foot | 80 |  | 80 |
| Aggregate Wedge Shoulder, Type B | Ton | 3 |  | 3 |
| Concrete Removal | Curd | 62 |  | 62 |
| Concrete Superstructure | Curd | 62 |  | 62 |
| Furnishing and Erecting Structural Steel | Pound | 16350 |  | 16350 |
| Reinforcement Bars, Epoxy Coated | Pound | 10780 |  | 10780 |
| Bar Splicers | Each | 120 |  | 120 |
| Mechanical Splicers | Each | 450 |  |  |
| Preformed Joint Strip Seal Foot | Foot | 404 |  | 404 |
| Concrete Seajer | Sq ft |  | $\frac{1900}{25}$ | $\frac{1900}{25}$ |
| Epoxy Crack Injection | foot |  |  |  |
| Inlets to be Adjusted | Each | $\frac{1}{90}$ |  |  |
| Combination Concrete Curb and Gutter, Type | Foot | 90 |  | 90 |
| Bridge Deck Grooving (Longitudinal) | Sq Y ${ }_{\text {d }}$ |  |  |  |
| Floor Drain Extension | Each | 86 |  |  |
| Containment and Disposal of $L$ Paint Cleaning Residues No. 1 | 1 Sum | I |  | 1 |
| Structural Steel Removal | Pound | 16350 |  | 16350 |
| Bridge Deck Latex Concrete overlay, $21 / 2$ Inches | $5{ }_{\text {S }} \mathrm{Yd}$ | 4121 |  | 4121 |
| Cleaning and Painting Steel Bridge No. 1 | $\llcorner$ sum | 1 |  |  |
| Bridge Deck Scarification 3/4/4 | Sq Y d | 4121 |  | 4121 |
| Structural Repair of Concrete | 5 Ft |  | 56 | 56 |
| Stepth Equat to or Less than ${ }^{\text {a }}$ |  |  |  |  |
| Structural Repair of Concrete | Sq Ft |  | 319 | 319 |
| Deck Slab Repair (Full Depth, Type I) | Sq Y ${ }_{\text {d }}$ | 3 |  | 3 |
| Deck Slab Repair (Full Depth, Type II) | Sq Y ${ }^{\text {d }}$ | 9 |  |  |
| Diamond Grinding (Bridge Section) | Sq Y ${ }_{\text {d }}$ | 3962 |  | 3962 |
| Handrail Reoairs Bridge No. 1 | foot | 173.4 |  | 173.4 |
| Modular Expansion Joint $6^{\prime \prime}$ | Foot | 69 |  |  |
| Joint Seal Repair Bridge No. 1 | $\stackrel{\text { Sum }}{ }$ | 1 |  |  |



LEGEND
Concrete Removal
Deck Slab Repair, (Partial)
Deck Slab Repair, (Full Depth, Type I) *
Deck Slab Repair, (Full Depth, Type II)*
raffic Direction
Square Yard
*See Note 1

## NOTE

1. Areas of deck repair shown are estimated. The Engineer shall show actual解
2. For transverse joint at Pier 1 removal and reconstruction, see sheet 14 of
3. For bridge deck final cross section, see sheet 5 of 18 .
4. Existing reinforcement bars extending into the removal area shall be cleaned
straightened and incorporated into new construction Any reinforcement straightened and incorporated into new construction. Any reinforcement bars that are damaged during concrete removal operations shall be repaired or
replaced using an approved bar splicer or anchorage system. Cost included replaceo using an apprlal
5. See Matchline $A$ on sheet 4 of 18 .


SA


Pron scale : ${ }^{2}+\mathbf{D E S}$


| REVIISED |
| :--- | :--- |
| ReVISED |




















## GENERAL NOTES

4. Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details offecting new construction and moke necessory approved adjustments
prior to construction or ordering of moterials. Such variations shall not be couse for odditional compensotion for o chonge in scope of work; however, the
Controctor will be poid for the quantity octually furnished ot the unit price Controctor will be
bid for the work.
5. Cleaning and painting of the existing structural steel sholl be os specified in the special provision for "Cleaning and Painting Existing Steel Structures": All girders, cross frames, bearings, anchor bolts, and other structural
within 10 -feet (measured olong the girder from the deck joits at each Winhin 10-feel (measurect olong the girder from the deck Joint of each
obutment) shall be lleaned per Near White Blast Cleaning SSPC-SP1O. Existing steel surfaces not covered in Note 3 shall be pointed occording to the
requirements of Paint System 1 1-OZ/E/U. The color of the finish coat shall be requirements of Paint Sy
Groy, Munsell No. 5B 7/1.
6. The exterior surfoces and bottom of the bottom flange of the fascia beams shal be cleaned per Commercial Grode Power Tool Cleaning ond shall be pointed finish coot for the exterior and poottom of the bottom flange of the foscia beams shall be Blue, Munsell No. $1083 / 6$.

Renforcement bors desoted (E) shall be epoxy coot
5. Prior to pouring the new concrete deck, all heary or loose rust, loose mil scale, and other loose or potentially detrimental foreign moterial shall be remoin unless otherwise noted. Removal shall be accomplished by methodst that remain unless otherwise noted. Removal shall be accomplished by methods that
will not damage the steel. The cost will be included in the pay item covering will not domage the steel. The
6. The existing structural steel cooting contains leod. The Controctor shall toke
appropriate precoutions to deal with the presence of lead on this project.
. Existing reinforcement bars extending into the removal orea shall be cleaned straightened and incorporoted into the new construction. Any reinforcement bars that ore damaged during concrete removal shall be reploced with an approved bor splicer or anchoroge system. Cost shai be hiluded wis Concre
Removal.
8. Synthetic fibers shall be odded to the Bridge Deck Lotex Concrete Overloy. See specia frovisions.
9. Joint openings shall be adjusted in occordance with Article 520.04 of the
Standard Specifications when the deck is poured ot on ambient temperature other thon $50^{\circ}$.
10. A complete set of existing bridge plons can be obtained by contacting IDOT

IDOT District 2
Atfn: Mahmoud Etemodi, P.E. 815-284-5393
819 Depot Avenue
Dixon, IL 61021

## INDEX OF SHEETS

Sheet Title

1. General Plan \& Elevation

General Plon $\& ~$
General Details
Bridge Deck Repoir Plons
Concrete Overlay Cross se
4. Concrete Overlay Cross Section
5. Framing Plon and Pointing Details

Pointing Details
Strip Seal Joint Plan
Strip Seal Joint Details (1 of 3)
Strip Seal Joint Details (2 of 3)
Strip Seal Joint Detoils (3 of 3)
10. Strip Seal Joint Detail
I1.
Instructure Repoirs
Approach Sloe Details

TOTAL BILL OF MATERIAL

| ITEM | UNIT | SUPER | SUB | TOTAL |
| :---: | :---: | :---: | :---: | :---: |
| Bituminous Moterials (Tock Coat) | Pound | 282 |  | 282 |
| Hot-Mix Asphalt Surface Removal - Butt Joint | Sq Yd | 313 | - | 313 |
| Hot-Mix Asphalt Surfoce Course, Mix "D", N70 | Ton | 57 | - | 57 |
| Hot-Mix Asphalt Surface Removal, 1/4" | Sq Yd | 313 |  | 313 |
| Protective Coot | Sq Yd | 2.555 | - | 2.555 |
| Sow Cuts | Foot | 99 |  | 99 |
| Concrete Removal | Cu Yd | 16 | - | 16 |
| Concrete Superstructure | Cu Yd | 15.9 | - | 15.9 |
| Bridge Deck Grooving (Longitudinal) | Sq Yd | 2,352 | - | 2,352 |
| Reinforcement Bars, Epoxy Cooted | Pound | 2,230 | - | 2,230 |
| Bar Splicers | Eoch | 28 | - | 28 |
| Preformed Joint Seal Strip | Foot | 131 | - | 131 |
| Concrete Seoler | Sq Ft | - | 1,660 | 1,660 |
| Floor Droin Extension | Eoch | 22 | - | 22 |
| Bridge Deck Latex Concrete Overlay. 2 1/2 inches | Sq Yd | 2.514 |  | 2.514 |
| Containment and Disposal of Lead Paint Cleaning Residue No. 2 | L Sum | 1 | - |  |
| Cleaning and Painting Steel Bridge, No. 2 | L Sum | 1 | - |  |
| Bridge Deck Scarification $3 / 4$ inch | Sq Yd | 3.114 | - | 3.114 |
| Montoles to be Adjusted | Eoch | 1 | - | 1 |
| Structural Repair of Concrete (Depth Equal to or less than 5 inches) | Sq Ft | - | 4 | 4 |
| Structural Repair of Concrete (Depth Greater than 5 inches) | Sq Ft | - | 50 | 50 |
| Deck Slob Repair (Full Depth, Type I) | Sq Yd | 1 | - | 1 |
| Deck Slab Repair (Full Depth, Type II) | Sq Yd | 7 | - | 7 |
| Diamond Grinding (Bridge Section) | Sq Yd | 2,352 | - | 2,352 |
|  |  |  |  |  |






SIDE VIEW


SECTION A-A


SECTION B-B

EXISTING ELASTOMERIC EXPANSION BEARINGS
Beorings: 10 at each obutment)


TOP BEARING ASSEMBLY


BOTTOM BEARING ASSEMBLY


PLAN - SIDE RETAINER


ELEVATION - SIDE RETAINER

NOTES:
4. Details shown for information purposes only; all existing expansio
2. Contractor to mask elastomeric pad prior to painting.








## GENERAL NOTES



All structural steel shall be AASHTO M 270 Grade 36 rexcept beoring ossembly
which sholl be AASHTO M 270 Grode 50 ).
$\begin{aligned} & \text { which shall be AASHTO M } 270 \text { Grode } 50 \text {. } \\ & \text { Colculated weight of new structural steel }=35,330 \text { Pounds (M270 Grode 36) } \\ &=8.510 \text { Pounds (M270 Grode } 50 \text { ) }\end{aligned}$ specified in the controct documents. No field welding is permitted except as specino forted
Reinforcement bars designated (E) shall be epoxy coated
 emoved from the surfoces in contoct with concrete. Tightly odhered point may
emain urless otherwise noted.
Removal shall be accomplished emain untess otherwise noted. Removal shall be accomplished by methods
that will not damoge the steel ond the cost will be included in the poy tem Concrete Removal.
As directed by the Engineer, existing construction accessories widded to the
top flange of beams ond iirders stacil be removed. The welf areas shall be
 aye penetrant testing (PT) by qualified personnel approved by the Engineer.
Any crocks that coanot be removed by grinding 4 inch deep stroll be identified and reportod to the Bureou of Bridges ond Structures for further disposition. The cost of removing welded occessories. grinding and inspecting weld oreas
and grinding crocks will be poid for occording to Article 109.04 of the Standorrd Specificictions.
 oonstruction voriations. The Controctor shal field verify existing oimensions and
defails offection new construction ond mae necessory opproved odjustments prior
to construction or ordering of materials. Such variation shall oconstruction or orcering of moterialis. Such variation shall hot be couse for
odditional compensation for or ochonge in scope of work. however. the odditional compensation for o chonge in scope of work. however. the
Controctor will be paid for the quantity ocfually furnished at the unit price bid

$$
\begin{aligned}
& \text { for the work. } \\
& \text { Concrete }
\end{aligned}
$$

For the work.
Concrete sedier shall be applied to the designated areas of the abutments and
The existing
Concrete Selier shall be applied to the designoted areas of the abutments an
The existing structural steel cooting contioins leod. The Controctur shall toke appropriate precoutions to deal with the presence of lead on this project.
The Oroanic Zinc Rich Primer / Epoxy / Urethane Paint System shall be for painting of new structural steet lexeept where otherwise notece. The entire
 bottom of the boftom fliange of foscia beams, masked off connecition surfacees.
fietd instolled f fasteners and
 Munsell No. 58 7/. The color of the final finish coot for the exterior
bottom flange of the foscia beams sholl be Biue Munsell No. $108 \mathrm{~B} / 6$. Exponsion joints shall be fobticated ond installed according to the
manufocuruer's recommendations and as aporoved by the Engineer. Manuffacturer's recommendations and as opproved by the Engineir.
Expansion joints sholl be fobricated to conform to the existing cross slopes of the bridge.
Jint opening shail be adjusted occording to Arficle 520.03 of the
Standard Specificactions when the deck in poured ot on Standard Secirications when
Existing reinforcement bars extending into the removal area sholl be cleaned stroightened and incorporated into new construction. Any reinforcement bors that or
damoged during concrete removal operations shall be repaired or repploced using on approved bor splicer or anchoroge system. Cost included with Cencrete Reemoval
Cost of rempol ond reinstollation of all members necessary to complete.

 The Controctor shall submit colvulations ond detaill demonstrating
structural integrity of the bridge is maintained under the oddifitanal hoosed loods of the containment system. See special provisisions.
 blostimg aperafitins of this site. See speci
Disposal of Leod Piont Cleaning Residues."
Existing structurat steel that will be in
 Cleaned and pointed prior To erection as requiret by the Special Provision creaning Synthetic fibers
Special Provisions.
A complete set of existing bridge plans can be obtained
by contocting IDOT District 2.
IDOT District 2:
ATTN: Mahmoud Etemodi, P.E. 8!5-284-5393
Blis Depot Avenue
Dixon, II 61021

TOTAL BILL OF MATERIAL

| ITEM | UNIT | SUFER | Sub | fotal |
| :---: | :---: | :---: | :---: | :---: |
| Bituminous Materiais (Tock coat) | Pound | 459 |  | 459 |
| Hot-Mx Asphait Surfoce Removal-butt Joint | Sq. Y \% . | 375 |  | 375 |
| Hot-Nix Asphath Surfoce Course, Mix "D", who | Ton | 95 |  | 95 |
| Hot-wix Asphat Surfoce Removet, $1 / 4^{\prime \prime}$ | Sq. Yd. | 645 |  | 65 |
| Channel Excouvtion | curd |  | 568 | 558 |
| Stone Riprod, Ciloss 45 | Sq Y ${ }_{\text {d }}$ |  | 786 | 786 |
| Filter Fobr | Sq |  | 786 | 786 |
| Sow cuts | Foot | 60 |  | 60 |
| Concrete Removal | cuyd | 106 |  | 106 |
| Concrete Structures | cos Yd |  | 6.3 | 6.3 |
| Concrete Superstructure | Cu Yd | 105.9 |  | 105.9 |
| Protective Coat | 59 Yd | 4,352 |  | 4.352 |
| Furnishing And Erecting Structural Steet | Pound | 43,840 |  | 43,840 |
| Reinforcement Bars, Epoxy Cootad | Pound | 18,070 | 1,180 | 19.250 |
| Eor Splicers | Eoch | 220 |  | 220 |
| Wechonical Spilicers | Each |  | 24 | 24 |
| Preformed Joint Strio Seat | Foot | 980 |  | 980 |
| Anchor Bolts, 1 //2" | Eoch |  | 16 | 16 |
| Conorete Seotier | Sq Ft |  | 2,694 | 2.694 |
| Epoxy Craok Injection | Foot |  | 89.1 | 89. |
| Gombintion Curb and Gufter Removat | Foot | 60 |  | 60 |
| Combination Concrete Curb and Gutter. Type E-6.24 | Foot | 60 |  | 60 |
| Mantoles to be Adjusted | Each | 1 |  | 1 |
| Trafflc Borrier Terminat. Type is | Egoh | 1 |  | 1 |
| Bridge Deck Groving (Longifudinai) | Sq YG | 3.9 |  | 3,946 |
| Floor Droin Extension | Each | 86 |  | 86 |
| Jock And Remove Existing Beorings | Eoch |  | 4 | 4 |
| Strucural Stet Remeval | Pound | 43.840 |  | 43.840 |
| Eridge Deck Latex Conorete Overlioy, 2 //2 Inches | Sq Yd | 3.930 |  | 3.9 |
| Contaimment And Disposal Of Leoc Point Cleaning Resitues Mio. 3 | 4 Sum | 1 |  | 1 |
| Cleoring And Pointing Steet Bridge No. 3 | Lsum | 1 |  | $i$ |
| Erioge Deck Sconfication $3 / 4{ }^{\prime \prime}$ | Sq Y ${ }_{\text {d }}$ | 3,710 |  | 3.710 |
| Bridge Deck Scorfication 21/4" | $59^{4} 98$ | 220 |  | 220 |
| Structural Repal of Concrete (Depth Equal To or Less Than 5 Inches) | Sq Ft |  | 145.9 | 145.9 |
| Structural Repair of Concrate (Depth Greoter than 5 Inchas) | Sq Ft |  | 405.9 | 405.9 |
| - Deck Slab Repair (Full Depth, Type i) | $S_{\text {SG }} \mathrm{Yd}$ | 3 |  | 3 |
| Deck Slob Repoir (Full Depth, Type II) | Sq Y ${ }_{\text {d }}$ | 22 |  | 22 |
| Dlamond Grinding (Eridge Section) | Sq ye | 3,946 |  | 3,346 |
| Hondrall Rapairs Brioge No. 3 | Foot | 112.7 |  | 112.7 |
| Joint Seal Pepair Erigge No. 3 | L Sum | I |  | 1 |
| High Lood Mult-Rotational Beorings, Guided Exponsion, 1300K | Each |  | 4 | 4 |


|  | : mim | destcone - Ms | Reviseo |  |  | $\left.\right\|_{\text {ETA }} ^{\text {EA }}$ | AP | section |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | $\frac{\text { CHECKED }}{\text { DREMEN }}$ - EEK | $\underbrace{\text { ReVISED }}_{\text {ReVIISE }}$ | STATE OF ILLINOIS | STRUCTURE NO. 081-0040 | 59 | 99 | 2 BRR 2017-1 |  |
| 为 | $\frac{\text { Rot scale }}{\text { pror Pate }}$ | ORAMN | ${ }_{\text {Ren }}^{\text {Revisise }}$ |  | HeEt Mo. 2 OF 27 |  |  |  | Contract No. 64446 |


$\xrightarrow{1^{\prime}-0^{\prime \prime}}$ $\qquad$

SPAN $1 \& 4$

## NOTES

1. Span 1 is symmetrical
2. Span 2 through Span 4 are symmetrica
bout the centerline of roadway
3. Parapet and handrail not shown for clarity,
4. For Bill of Materials see sheet 3 of 24 .
. The minimum thickn
oncrete overlay shall be $2 \frac{l n}{2 l}$ before ${ }^{\frac{l n}{\prime \prime}}$ grinding.

SPAN $1 \& 4$
SPAN $2 \& 3$
CROSS SECTION SHOWING REMOVAL (Facing North)


CROSS SECTION SHOWING NEW OVERLAY
(Facing North)
Bridge Deck Scarification ${ }^{3} / \mathbf{4}^{\prime \prime}$
Bridge Deck Latex Concrete Overlay, $2 \frac{1}{2}$ Inches
SA
170 Sourt huobur roan usser nane = bool
 $\stackrel{+}{P}$

 | vise |
| :--- |
| viseo | STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION



PARTIAL FRAMING PLAN




PIER 2 CAP MODIFICATIONS AND JACKING PROCEDURES - I



JACKING PROCEDURE:
STAGE I - Pier 2 West Column
Close troffic in (southbound) lanes over west column. Mointain one lane of troffic in eoch direction on the eos half of bridge.
2. Retrofit existing jocking stiffeners (Remove existing
jacking stiffeners ond replace with L6x6xl, M270 Grode 50,
and $7_{8}$ " $\dagger$ H.S. Bolts, A325).
. Retrofit existing bolted connections of north and south floorbeom to bridge trusses. (Remove existing rivets, ream
holes, and install A325 High Strength Bolts, two at o time.
4. Install north Jocking Bearing Plote, just to the east of
existing beoring. See plan.
and jacking beam beneath existing jocking plate and angles
of floorbeam.
6. Jock north bridge, tronsferring lood to jocking system.
(Moximum liff $=18$-inch).
8. Remove existing north expons

## NOTES:

1. The Jocking Bearing Plote of each Pier 2 column shall
2. The Jocking Bearing Plote of
remain permanently in ploce.



DBS

PIER 2 CAP MODIFICATIONS AND JACKING PROCEDURES - II













## ELEVATION

LEGEND

NOTES

1. Quontities and limits shown ore estimoted for bidding purposes
only. Actual oreas to be repaired ond the typel(s) of repoirs to Anl. Actual oreas to be repaired ond the type(s) of repoirs
be used will se determined bit the Engineer in the field ot the
time of construction. Quantities reflect inpection in Novemver time of construction. Quantities
2016 and include o o $20 \%$ increase.
2. Concrete Sealer shall be applied to the top of piers and
abutment beam seats under exponsion joints.
3. The controctor is responsible to remove, support and reinstall all existing utilities interfering with the work. Cost shall be
included with the poy item Structural Repair of Concrete (Depth included with the pay item Structural Repair of Concrete (Depth
Equal to or Less Than 5") Equal to or Less than 5


Existing
$\square^{6} \quad 67^{\prime \prime}-10^{\prime \prime}$ of Deck

Note: New Stone Riprop
Class A5
Note: New Stone Riprop
Closs area shown in
plan view is the some for
the removal for Channel Excovation
PROPOSED RIPRAP PLAN ${ }^{\dagger}$ NORTH ABUTMENT
~. Epoxy Crock Injection
$\int \begin{gathered}\text { Existing Slope } \\ \text { Wall to Remoin }\end{gathered}$



- Existing Slope

TOTAL BILL OF MATERIAL

| ITEM | UNIT | QUANTITY |
| :---: | :---: | :---: |
| Concrete Sealer | Sq. Ft. | 516 |
| Epoxy Crock Injection | Foot | 14.3 |
| Structural Repair of Concrete (Depth Equal to or less than 5 inches) | Sa. Ft. | 72.2 |
| Structural Repair of Concrete (Depth greater thon 5 inches) | Sq. Ft. | 41.8 |
| Chonnel Excovation | Cu. Yd. | 311 |
| Filter Fabric | Sq. Yd. | 356 |
| Stone Riprop. Class A5 | Sq. Y d . | 356 |



1. Quantities and limits shown are estimoted for bidding purposes
oll. Actul reeos to be repaired ond the typels of repois to
be used will be determined by the Engineer in the field ot the only. Actual areas to be repaired and the type(s) of repairs to
be used will de determined oy the Engineer in the field ot the
time of construction. Quantities reflect inpection in Novemver ime of construction. Quontities re,
2016 and include o o 20\% increase.
2. Concrete Sealer shall be applied to the top of piers and
ter
3. existing uontortor is responsible to remove, support and reinstall all included with the pay item Structural Repair of Conccrete (De Equal to or Less Than 5").

$\frac{67^{\prime}-10^{\prime \prime}}{\text { Out to Out of Deck }}$ Note: New Stone Riprop Closs A5 area shown in
plan view is the same ploas view is the some for
the removal for Chonnel Excovation
PROPOSED RIPRAP PLAN SOUTH ABUTMENT
 STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
plan and elevation STRUCTURE NO. 081-0040


EXISTING SECTION THRU SOUTH ABUTMENT



TOTAL BILL OF MATERIAL

ROPOSED SECTION THRU RIPRAP SOUTH ABUTMENT
** Verify in Field. Required length to meet 2:1 slope. Layout of slope * Verify in Field. Required length to meet $2: 1$ slope. Loyou
protection system may be varied to suit ground conditions.

Stone Ripra
Stone Riprop, Class
$\square$
$\square$
 SECTION
ERR $2017-1$








Indicates NEW hole
drilled in exist．

Note＂A＂


Note＂B＂


$\frac{\text { Note＂} C^{\prime}}{\text { Existing } G}$
$5^{\prime \prime}$ alt：spacime maximum
．
SECTION A－A
Al structural＇stoel shavin on this，hheet is
exis ting，unless ot herivise notet．


SECTION B－B NE：N Cor．t． SECTION $B-B$
showing rypical conn nin
lor stringers to fB－ W／2x 27 New

DIAPH. "B" (32 Thus)

$$
\begin{aligned}
& \text { Rimove oll gistiro diophrogms ""V ot floor beam } \\
& \begin{array}{l}
\text { SECTION C-C } \\
\text { Stoming tyytal comms } \\
\text { for stringers fors }
\end{array} \\
& \text { 思 }
\end{aligned}
$$

## 




5max
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6．Remono comese

运： | Sto． $24+38,25$ |
| :--- |
| ILINOIS DIVISION OF HIGHWAYS |

$\qquad$
 ROCK ISLANO COUNTY INTERIOR FLOOR BEAMS
Q DETAILS－
TORNROSE，CAMPBELLL \＆ASSOCIATES



-A Add new shear connectors to all girders. See Sh. 10 thei 13.


DETAIL OF INTERMEDIATE CROSS FRAMES - F2


DETAIL OF END CROSS FRAMES - FI

第 TORNROSE, CAMPBELL \& ASSOCIATES



Is and $5 s$ are me mament orinertio and scction modius



## FORM INFORMATION ONLY

##  <br>  DIVISION OF HIGHWAYS





 BORING DATA

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Genergl notes
Class $x$ conceref GENERQL NOTES
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FOR INFORMATION ONLY






SECTION C-C



DIAPHRAGM-DI (9GTHUS)




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## S10.50+23.00

ILINOIS DIVISION OF HIGHWAYS EA. ROUTE 599
EA. ROUTE 599
PROJET ERA-F-S99(3)
 INTERIOR GIROER-SOUTH CMANMEL


100



Tor TORNROSE, CAMPBELL \& ASSOCIATES
 Estimeted enont od riteced rivets

## Sto. 50 :23.00

ILINOIS DIVIIION OF HIGHWAYS

 ROCK ISLAND COUNTY Eno floor beams-south chammel 


$-42^{-}$

TYPICAL GIROER ELEVATION - SPAN I


Note:

pon sheet 10 .

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torngose canplella associates FOR INFORMATION ONLY


