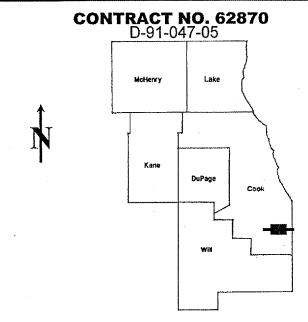
FOR INDEX OF SHEETS SEE SHEET 2

**IMPROVEMENT IS** LOCATED IN THE CITY OF **CHICAGO** 

		·	TOTAL	SHEET
ROUTE	SECTION	COUNTY	SHEETS	NUMBER
FAP 341	2004-114BR	COOK	17	1

# STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS DISTRICT ONE PROPOSED HIGHWAY PLANS**

FAP RTE 341: STONEY ISLAND FEEDER RAMPS **VARIOUS STRUCTURES SECTION 2004-114 BR** BRIDGE SUBSTRUCTURE REPAIRS **COOK COUNTY** C-91-047-05



**LOCATION OF IMPROVEMENT INDICATED THUS:** 

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS** 

SUBMITTED:

DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

DIRECTOR, DIVISION OF HIGHWAY

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

C.U.A.N.: CHICAGO UTILITY ALERT **NETWORK** (312) 744-7000

ONE DESIGN PLAN PREPERATION ENGINEER: / ROBERT BORO (847) 705 4178

**CONTRACT NO. 62870** 

ineneedd thin a n	GENERAL NOTES	ROUTE FAP 341		SECTION 2004-114BR	COUNTY COOK	TOTAL SHEETS 17	SHEET NUMBER 2	
	1. BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL (CHICAGO UTILITY ALERT NETWORK) AT (312)744-7000 FOR FIELD BURIED ELECTRIC, TELEPHONE AND GAS UTILITIES. (48 HOUR NEQUIRED).	CALL "C.U.A.N." LOCATIONS OF					NTRACT 62870	
	2. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACT UTILITY COMPANIES.	TIVITIES WITH	1	TITLE SHE	,	STANDARDS AND GENE	DAI NOTES	
	3. THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DE		3		OF QUANTITIES		RAL NOTES	
	4. WHEN ARTIFICIAL LIGHTING IS UTILIZED IN NIGHT OPER CONTRACTOR SHALL EXERCISE THE UTMOST PRECAUTIONS IN ADVERSE VISIBILITY TO THE MOTORING PUBLIC AND ADJOINING AREAS.	PREVENTING	4 5 6 - 10		EPAIRS LOCATION	ON 1 SN 016-2436 ON 2 SN 016-2437		
	5. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRORDERING OF MATERIALS.		11-12 13			ON 3 SN 016-2438 ON 4 SN 016-2439	·	
	6. THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE TRAFF SUPERVISOR AT (847) 705-4470 (FOR ARTERIALS) AND x4151 O EXPRESSWAY RAMPS) A MINIMUM OF 72 HOURS IN ADVANCE O WORK.	R 4155 (FOR	14 15	BRIDGE R	EPAIRS LOCATION	ON 5 SN 016-2441 ON 6 SN 016-2442		
	7. DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.		16 TC17- TRAFFIC CONTROL DETAILS FOR FREEWAY SHOULDER CLOSURES PARTIAL RAMP CLOSURES					
	8. THESE PLANS HAVE BEEN PREPARED FROM NOTES RECEIVED FINSPECTORS.	FROM BRIDGE	17	TC8- FRE	EWAY ENTRANCI	E AND EXIT RAMP CLOSU	JRE DETAILS	
	9. THE CONTRACTOR SHALL LOCATE AND PROTECT ALL EXISTING CONDUIT AND LIGHTING FACILITIES IN AND AROUND THE VICINITY O LOCATIONS OF THE BRIDGE SUBSTRUCTURE.				STATE S	STANDARDS		
10.THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ACCESS ABUTTINGPROPERTY AT ALL TIMES DURING THE CONSTRUCTION OF THIS PROJECTION.  11.THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE NOTIFICATION OF A EMERGENCY SERVICES, SCHOOL DISTRICTS, I.D.O.T.'S COMMUNICATIONS CENTILE.		THIS PROJECT.  CATION OF ALL ATIONS CENTER,	701006-02 Off Road Operations 2L, 2W 15' To Pavement Edge 701101-01 Off Road Operations, Multilane, Less Than 15' Away 701201-02 Lane Closure 2L, 2W, Day Only, For Speeds ≥ 45 MPH 701301-02 Lane Closure 2L, 2W Short Time Operations					
	SPRINGFIELD TRUCK PERMIT SECTION AND OTHER AGENCIES AFFECTED BY TOURSURE. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR POSTING SIGN THAT WILL INDICATE THE DATES THE CLOSURE WILL BE IN PLACE.			1- <i>0</i> 5 Traffic Co		ILLINOIS DEPARTMENT OF INDEX OF SI	TRANSPORTATION	

STATE STANDARDS

**GENERAL NOTES** 

s:\contracts-maintenance\wp\11x17plans\62870\_11x17\_jlr\coversheet index, notes\6287011x17indexnotesz.doc

EXPRESSWAYS.

form date: 5/05/2003

12. THE "ADVANCED WARNING SIGN DETAIL FOR ARTERIAL TRAFFIC" LOCATED IN THE

SPECIAL PROVISIONS FOR "TEMPORARY INFORMATION SIGNING FOR LANE

CLOSURES" AND THE SPECIAL PROVISION FOR "PUBLIC CONVENIENCE AND SAFETY" ARE APPLICABLE ONLY TO ARTERIAL ROADS AND SHALL NOT BE APPLIED TO

			TOTAL	SHEET
ROUTE	SECTION	COUNTY	SHEETS	NUMBER
FAP 341	2004-114BR	COOK	17	3

## **SUMMARY OF QUANTITIES**

CONTRACT 62870

			· ·			URBAN	SFTY-2A		
CODE NUMBER	DESCRIPTION	UNIT	TOTAL	SN 016-2436 LOC 1	SN 016-2437 LOC 2	SN 016-2438 LOC 3	SN 016-2439 LOC 4	SN 016-2441 LOC 5	SN 016-2442 LOC 6
50102400	CONCRETE REMOVAL	CU YD	29.7		29.7			-	
50300225	CONCRETE STRUCTURES	CU YD	31,5		31.5				
50300320	ELASTOMERIC BEARING ASSEMBLY, TYPE II	EACH	8		8		·		
50301245	FORMED CONCRETE REPAIR (DEPTH EQUAL TO OR LESS THAN 5")	SQ FT	659	207	355	20	53	20	4
50301250 50500405	FORMED CONCRETE REPAIR (DEPTH GREATER THAN 5 ")	SQ FT	36 <i>410</i>		36 <i>G10</i>				
50800205	Furnishing & Erecting Structural REINFORCEMENT BARS, EPOXY Stell COATED	POUND	4480		4480				
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	2	0.333	0.335	0.333	0.333	0.333	0.333
67100100	MOBILIZATION	L SUM	1	0.166	0.170	0.166	0.166	0.166	0.166
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1		,		0.5		0.5
X0321316	ACCESS DOOR	EACH	1			. 1			
X0322467	TEMPORARY INFORMATION SIGNING FOR LANE CLOSURE	SQ FT	288	48			96	96	48
X7011015	TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS)	L SUM	1		0.8		0.2		
Z0031300	JACKING AND CRIBBING	LSUM	1		. 1				
Z0073300 5 <b>8700 300</b>	TEMPORARY SHORING AND CRIBBING BRIDGE SEAT SEALER	L SUM SQ.FT.	1 /32.7		132.7			1	

ILLINOIS DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

#### TOTAL SHEET ROUTE **SECTION** COUNTY **SHEETS** NUMBER TRAFFIC DATA **FAP 341** 2004-114BR COOK 17 LOC. 1 **CONTRACT NO. 62870** 1-94 **IMPROVEMENT AT IMPROVEMENT AT** R 14 E SPEED LIMIT = 55 MPH LOC. 1: SN 016-2436 LOC. 2: SN 016-2437 2001 ADT = 18,550 100<sup>TH</sup> ST OFF RAMP OVER I-94 STONEY NB TO 100<sup>TH</sup> ST WB **FAP 341** (CALUMET EXPWY) **OVER STONEY ISLAND AVE IMPROVEMENT AT** SPEED LIMTI = 55 MPH LOC. 3: SN 016-2438 2001 ADT = 18,550EB 100<sup>TH</sup> ST TO NB STONEY LOC. 2 **OVER STONEY ISLAND AVE** 95th St **FAP 341** Cleaning Industrial SPEED LIMIT = 45 MPH 1997 ADT = 5,009STONEY ISLAND **IMPROVEMENT AT** SPEED LIMIT = 45 MPH LOC. 4: SN 016-2439 1998 ADT = 44.000100<sup>TH</sup> ST OVER ACCESS RD LOC. 3 SPEED LIMIT = 45 MPH LOCATION 2 RAMP TO BE 2001 ADT = 18.550 **CLOSED DURING PIER 10** STONEY ISLAND SPEED LIMIT = 45 MPH **JACKING OPERATION SEE** IAY Z TRAFFIC RESTRICTIONS 1998 ADT = 44,000TYPE III BARRICADES PER LOC. 4 RAMP CLOSURE DETAIL **FAP 341** SPEED LIMIT = 45 MPH **IMPROVEMENT AT** 2001 ADT = 37,100 LOC. 5: SN 016-2441 STONEY ISLAND NB OVER 103RD ST LOC. 5 Gataly **FAP 341** Park SPEED LIMIT = 55 MPH CAETTOSAD 1998 ADT = 22.000EAST 104TH STREET QUELLOS 103<sup>RD</sup> ST PLACE **IMPROVEMENT AT** SPEED LIMIT = 35 MPH LOC. 6: SN 016-2442 2002 ADT = 25,500STONEY ISLAND OVER 103RD ST LOC. 6 **FAP 341** SPEED LIMIT = 55 MPH TH PLACE TO TOUR STREET 1998 ADT = 22.000 ILLINOIS DEPARTMENT OF TRANSPORTATION 103<sup>RD</sup> ST **LOCATION MAP** SPEED LIMIT = 35 MPH 2002 ADT = 25,500E 107TH ST **HYDE PARK TOWNSHIP**

A STATE OF THE STA				ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
Total Bill o	f Material			SN 016-2436	2004-114 BR	СООК	17	5
Item	Unit	Qty		·	neral Note: n_dimensions_and `de	etails relative to existin	CON ng structure have been taken fro	ITRACT 62870 m
ormed Concrete Repair 5"	SQ FT	207.0		exi Co ma ma cha	sting plans and are s ntractor's responsibilit ke necessary appro terials. Such variation ange in the scope of	ubject to nominal consty to verify such dime ved adjustments price one shall not be cause	struction variations. It shall be the nsions and details in the field are to construction or ordering for for additional compensation for the Contractor will be paid for the	ne nd of a
10' 12' X 2'	X 3' 8' X 3'	1' X 2'		4' X 1'	5' X 7'		3' X 4'	
			///3					
	IER 1 ACE		Necessity and the second secon		IER 1		WEST ABUTMENT	
				8' 1 4' X 4'	X 1' 6' X 1'			
10')	<b>( 4'</b>							
			///				ILLINOIS DEPARTMENT OF T	AIR
WP	IER 2			W. P. W. F	IER 2		LOCATION 1: 100 <sup>TH</sup> ST. RA OVER I 94	

# STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

Jacking

ROUTE NO.	SECTION	con	URTY	TOYAL SHEETS	SHEET NO.
		Со	ok	17	4
FED. ROAD DIST	. NO. 7	10.19015	PED. AID PR	DJECT-	1

SHEETS

Contract Number: 62870

#### <u>NOTES</u>

All structural steel shall conform to AASHTO Classification M-270 Gr. 36, unless otherwise noted.

Plan dimensions and details relative to existing structure have been taken from existing plans and are subject to nominal construction variations. It shall be the Contractor's responsibility to verify such dimensions and details in the field 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 the scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work,

Cost of removal and/or re-installation of all members necessary to complete the work as detailed on the plans and as specified in the Special Provisions shall be included in the cost of Furnishing and Erecting Structural Steel.

Existing structural steel that will be in contact with new structural steel shall be cleaned and painted prior to erection as required by the Special Provision "Cleaning and Painting Contact Surface Areas of Existing Steel Structures".

The inorganic zinc rich primer/acrylic/acrylic paint system shall be used for shap and field painting of new structural steel except where otherwise noted. The color of the acrylic finish coat shall be Interstate Green, Munsell No. 7.5G 4/8. See Special Provision "Cleaning and Painting New Metal Structures".

Reinforcement bars shall conform to the requirements of AASHTO M  $31\ {\rm or}\ M$   $322\ {\rm Grade}\ 60.$ 

Bearing seat surfaces shall be constructed or adjusted to the designated elevations within a tolerance of  $^{\prime}_{g}$  inch. Adjustment shall be made either by grinding the surface or by shimming the bearing. Two  $^{\prime}_{g}$  ' adjusting shims, of the dimensions of the bottom bearing plate, shall be provided for each bearing in addition to all other plates or shims.

Bridge Seat Sealer shall be applied to the seat area of Pier 10.

All Construction joints shall be bonded.

If the analysis submitted to the Contractor for the jacking/temporary support system to be used shows temporary stiffeners are required to prevent web crippling or buckling, the stiffeners shall be steel and bolted to the web. If stiffeners are not required, hardwood timbers shall be installed tightly between the top and bottom flange to prevent flange rotation.

## PARTIAL FRAMING PLAN

(A) Bearing removal and replacement.



KED Advice T. Halloway

N C ballya

KED JSB ATH

MARCH 20, 20

EXAMINED John Q. Ma

EXAMINED

RILL OF MATERIAL

DILL OF MATERIAL	<u> </u>	
ITEM	UNIT	QUANTITY
Elastomeric Bearing Assembly Type II	Each	8
Jacking and Cribbing	LS	1
Concrete Removal	Cu. Yd.	29.7
Concrete Structures	Cu. Yd.	31.5
Reinforcement Bars, Epoxy Coated	Lbs.	4480
Furnishing and Erecting Structural Steel	Lbs.	610
Formed Concrete Repair ≤ 5"	Sq. Ft.	355
Formed Concrete Repair ≥ 5"	Sq. Ft.	36
Bridge Seat Sealer	Sq. Ft.	132.7

\* Jacking to be done at night. Jacking shall be coordinated with the District prior to proceeding.

PLAN & ELEVATION

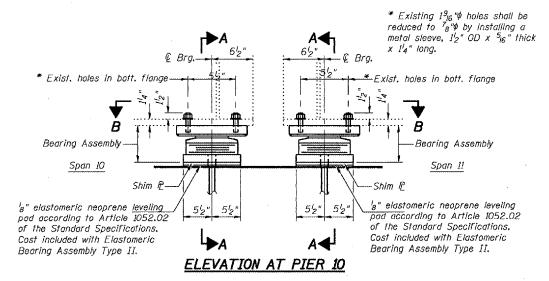
LOC 2: STONEY ISLAND CONNECTOR

TO FAI 94 RAMP Q STRUCTURE

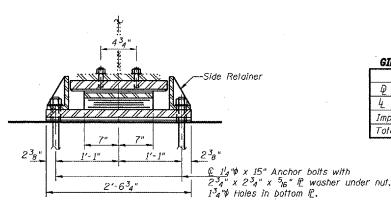
COOK COUNTY

SN 016-2437

@ Pier 6-

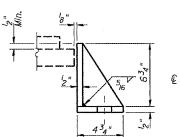


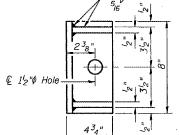
#### STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION



#### TOTAL SHEETS SHEET NO. SHEET NO. 217 7 5 SHEETS Cook FED. ROAD DIST, NO. 7 JULINOIS FED. AIG PROJEC

Contract Number: 62870



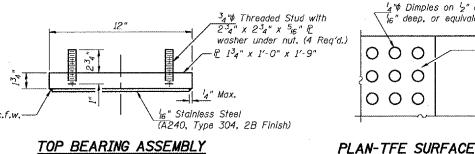


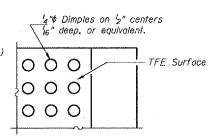
#### SIDE RETAINER

Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates.

### SECTION A-A

#### TYPE II ELASTOMERIC EXP. BRG.

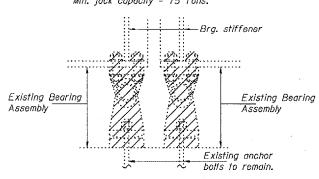




New side retainers, shim fts, connection bolts and anchor bolts are included in Furnishing and Erecting Structural Steel.

See sheet 3 of 5 for anchor balt installation.

Prior to ordering any material, the contractor shall verify, in the field, all bearing height and shim thickness dimensions Min. jack capacity = 75 Tons.

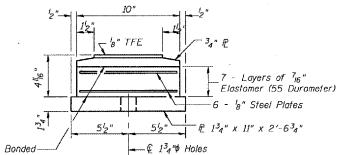


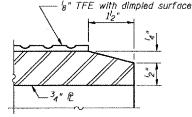
EXISTING BEARING REMOVAL DETAIL

#### Chord to fixed brg.-@ Pier 12. Tan @ € Beam @ & brg. Anchor bolt location. Typ. 1'-03<sub>4"</sub> Span 11 Typ.11°-59'-22' Brg. assembly € Exist. Brg. 9°-20′-44″— 28 d - € Brg. assembly 1'-07<sub>8"</sub> Span 10 Typ. Tan @ € Beam Ø € brg. Chord to @ Pier 8

### TOP BEARING ASSEMBLY

BOTTOM BEARING ASSEMBLY

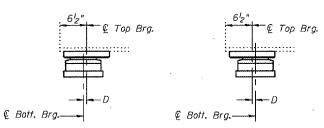




## SECTION THRU TFE

The 18" TFE sheet shall be bonded directly to the top steel plate with a two-component, medium viscosity epoxy resin, conforming to the requirements of the Federal Specification MMM-A-134, Type I. The bond agent shall be applied on the full area of the contact surfaces.

Bonding of  $^{l}_{8}$ " TFE sheet during vulcanizing process will be permitted provided the process and method of adjusting assembly height is approved by the Engineer.



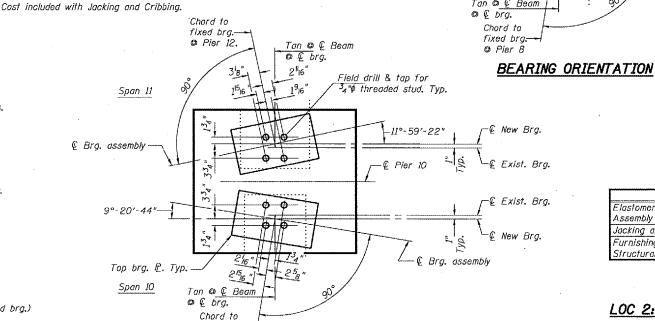


MARCH 20, 2005 -a. Morris

(Move bott. brg. away from fixed brg.) (Move bott. brg. toward fixed brg.)

## SETTING ANCHOR BOLTS AT EXP. BRG.

 $D={}^{I}_{B}$ " per each 100' of expansion for every 15° temp. change from the normal temp. of 50°F.



fixed brg.--

VIEW B-B

@ Pier 8

GIRDER REACTIONS AT PIER 10 S. Brg.

49.3

40.8

99.8

9.7

(k)

(k)

(k)

(k)

Imp.

Total

N. Brg.

49.7

41.9

9.3

100.9

### BILL OF MATERIAL

Item	Unit	Total
Elastomeric Bearing Assembly Type II	Each	8
Jacking and Cribbing	LS	1
Furnishing and Erecting Structural Steel.	Lbs.	610

**BEARING DETAILS** LOC 2: STONEY ISLAND CONNECTOR TO FAI 94 RAMP Q STRUCTURE COOK COUNTY SN 016-2437

JSB ATH

DESIGNED

CHECKED

CHECKED

*I-2-E2* <sub>9-1-03</sub>

### The Illinois Coil-Lock Anchor Bolt is a proprietary item which is the property of the Illinois Department of Transportation. Use, reproduction or disclosure without express written permission is prohibited and protected under Federal copyright laws. The production and "d" ¢ Holes with zerk the fabrication of this bolt for use on highway projects for epoxy grout in the State of Illinois shall be permitted and there shall be no incurred charges or fees to the manufacturer or the fabricator for producing or fabricating this bolt. "D" ø 134" 18" ----14" 138" 116" 2" 3," Anchor Bolt (See Bearing Details 1<sup>5</sup>/6" 28" for number, size and length.) 1<sup>13</sup>16 " 2" 21/8" 278" 2" 25g" 25/6" Top of base plate End of End of aroove coil lock $^{5}_{32}$ " wide x $^{3}_{32}$ " deep groove in anchor bolt with B" \$ l<sub>16</sub>" at Bottom of coil PLAN-COIL WIRE " Notch

"Ε" Ø

MARCH 20, 2005

ILLINOIS COIL-LOCK ANCHOR BOLT

#### STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 3
		Cook	17	8	5 внеетв
PEG. 80AD GIST. NO. 7		ILLINOIR FED. AID PROJECT-			

Contract Number: 62870

### MATERIALS FOR ILLINOIS COIL-LOCK ANCHOR BOLT

The anchor bolt shall be fabricated from cold drawn or hot finished seamless carbon steel mechanical tubing conforming to ASTM A 519, Grade 1026, CW and supplied with hexagonal nuts and cut washers.

The coil wire shall be made of any suitable soft steel wire.

The finished anchor bolt shall be cleaned of rust and other foreign materials and wrapped or packaged to prevent contamination until they are installed, The epoxy grout shall be a two-component, epoxy resin bonding system conforming to ASTM C 881, Type I, Grade 1 and of a Class suitable for the temperature at installation.

### INSTALLATION PROCEDURE for the ILLINOIS COIL-LOCK ANCHOR BOLT

- 1. With the coil wire in place, the bolt shall be inserted into the hole and turned clockwise to a snug fit in the hole. Nut and washer shall be placed on the bolt. The nut shall be tensioned until the steel base plates are held securely to the concrete bearing seat.
- 2. Epoxy grout shall be pumped through the zerk fitting with a pressure gun. Pumping shall continue until the epoxy overflows the hole around the bolt shank. After pumping is discontinued, excess epoxy shall be immediately wiped off.

#### ALTERNATE ANCHOR BOLTS

The Contractor may use, at his option, the capsule or the adhesive cartridge type anchor rods that have been previously tested and given a prior approval by the Department. The Contractor shall install these anchor rods in pre-drilled holes according to the manufacturer's recommendations and procedures.

The capsule or the adhesive cartridge type anchor rods shall be a two part system composed of:

- 1. A threaded rod stud with nut and washer of the type specified.
- 2. A sealed glass capsule or a sealed glass adhesive cartridge containing premeasured amounts of the adhesive chemical.

Location	Туре
Pier 10	A307

ASTM F 1554 Grade 105, ASTM A 449 and AASHTO M 314 Grade 105 anchor bolts may be substituted for the anchor bolts shown above.

#### GENERAL NOTES

Holes in the masonry for anchor bolts shall be drilled through the base plates to the diameter and depth shown or according to the manufacturer's recommendation after beams or girders have been erected and adjusted. Prior to setting the bolts, the holes shall be dry and all dust and loose particles shall be removed by the use of compressed air or vacuuming.

The anchor bolts, furnished and installed and including the epoxy grout or capsules shall not be paid for separately but shall be included in the unit bid price for Furnishing and Erecting Structural Steel.

> ANCHOR BOLT DETAILS LOC 2: STONEY ISLAND CONNECTOR TO FAI 94 RAMP Q STRUCTURE COOK COUNTY SN 016-2437

JSB ATH

JSB

ATH

10-22-04

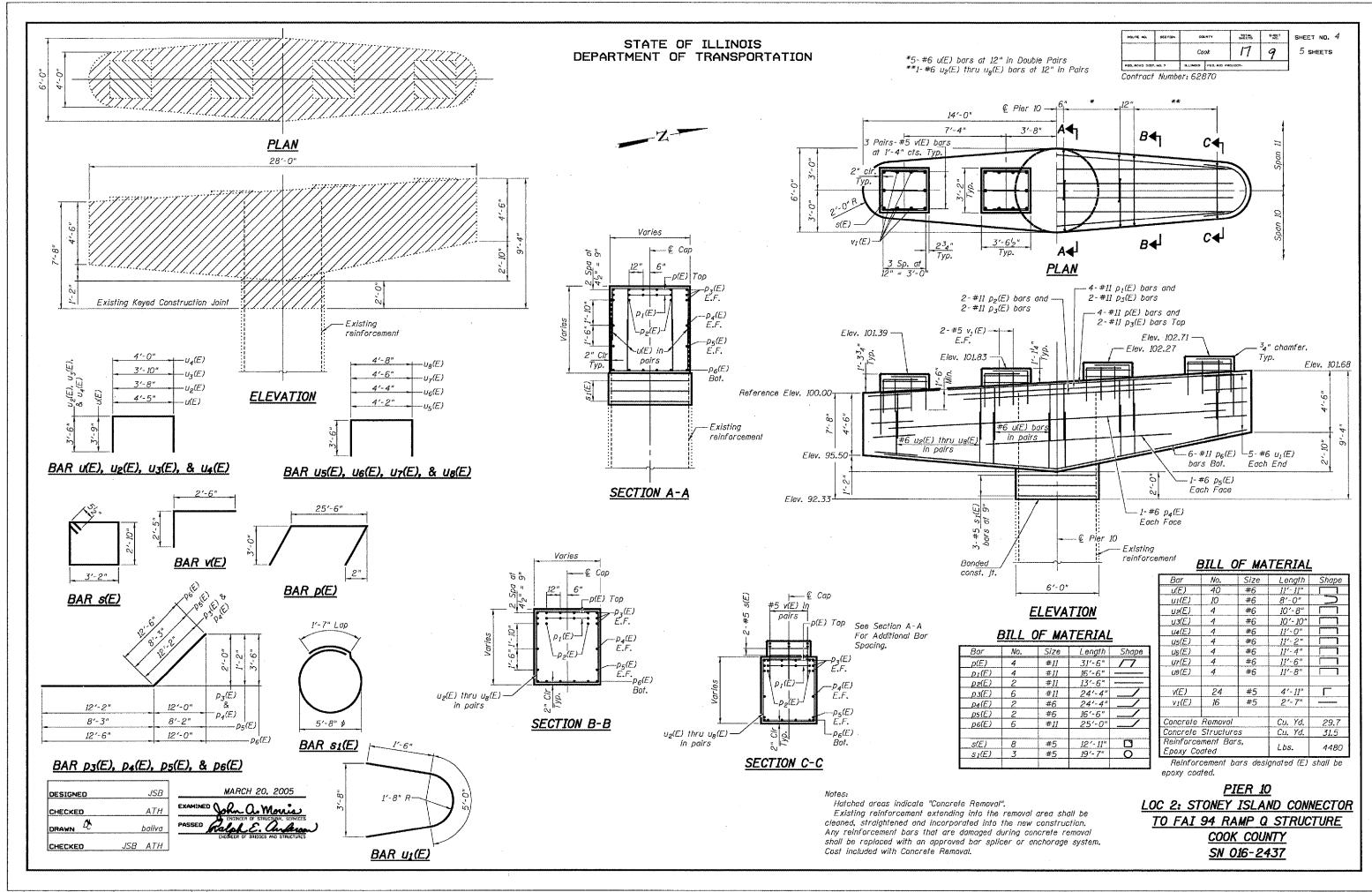
DESIGNED

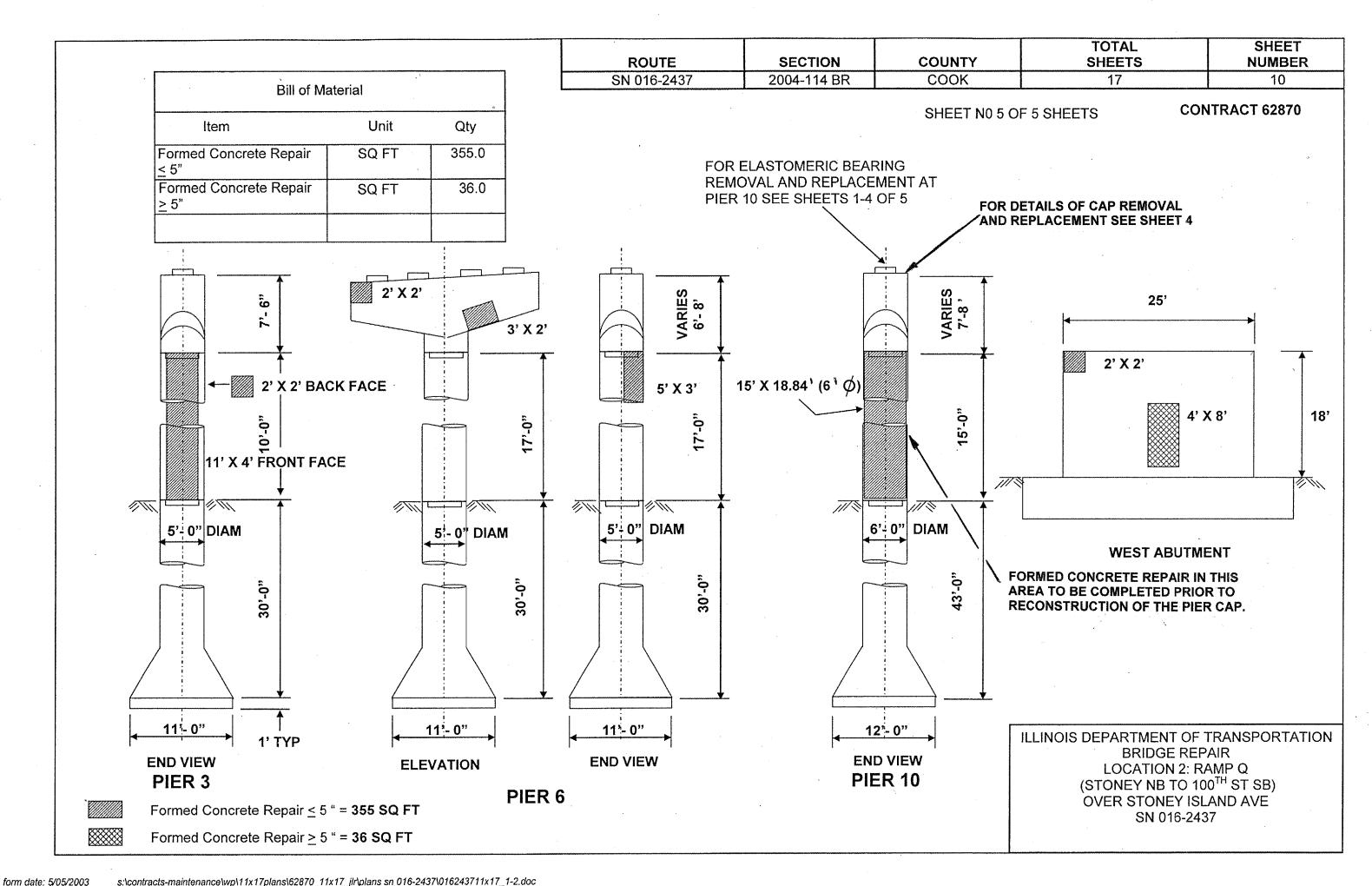
CHECKED

CHECKED

ABB-1

4 DRAWN





Total Bill of Material					
Item	Unit	Qty			
Formed Concrete Repair ≤ 5"	SQ FT	20.0			
Access Door	EACH	1			

			TOTAL	SHEET
ROUTE	SECTION	COUNTY	SHEETS	NUMBER
SN 016-2438	2004-114 BR	COOK	17	11

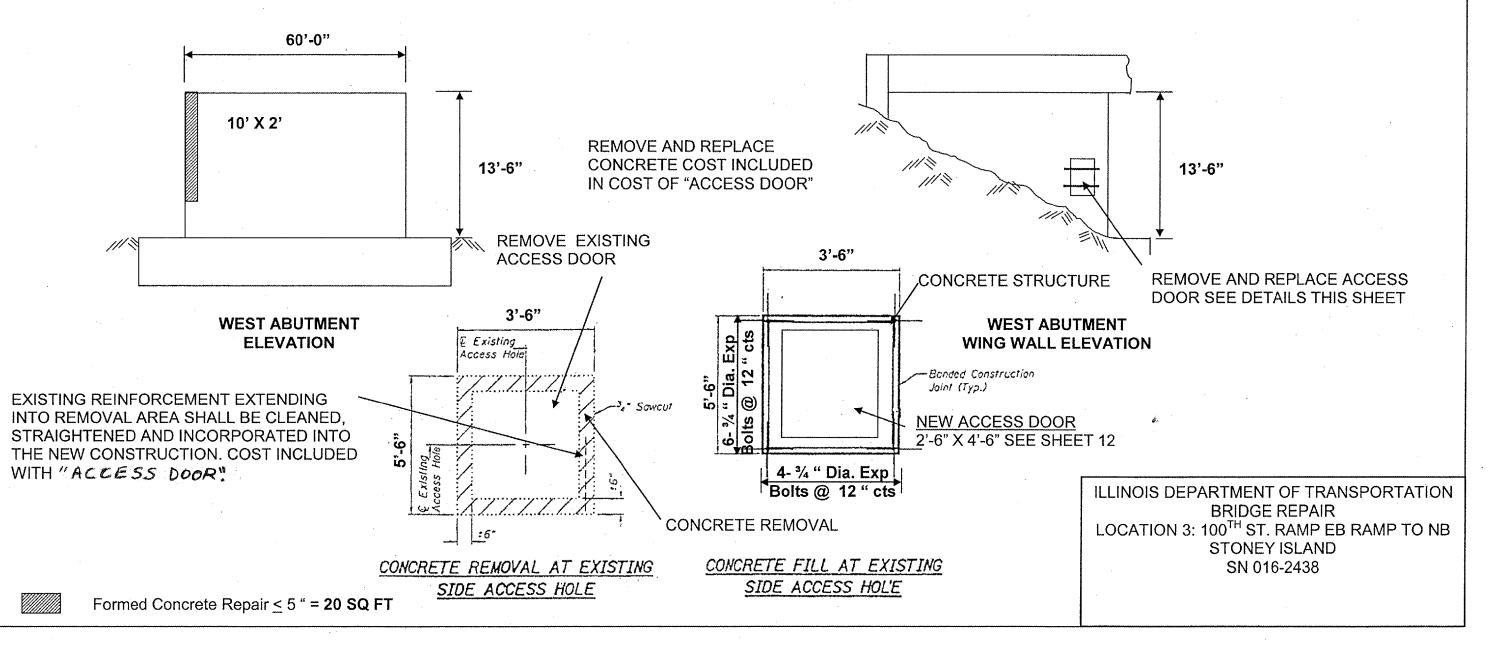
#### SHEET 1 OF 2

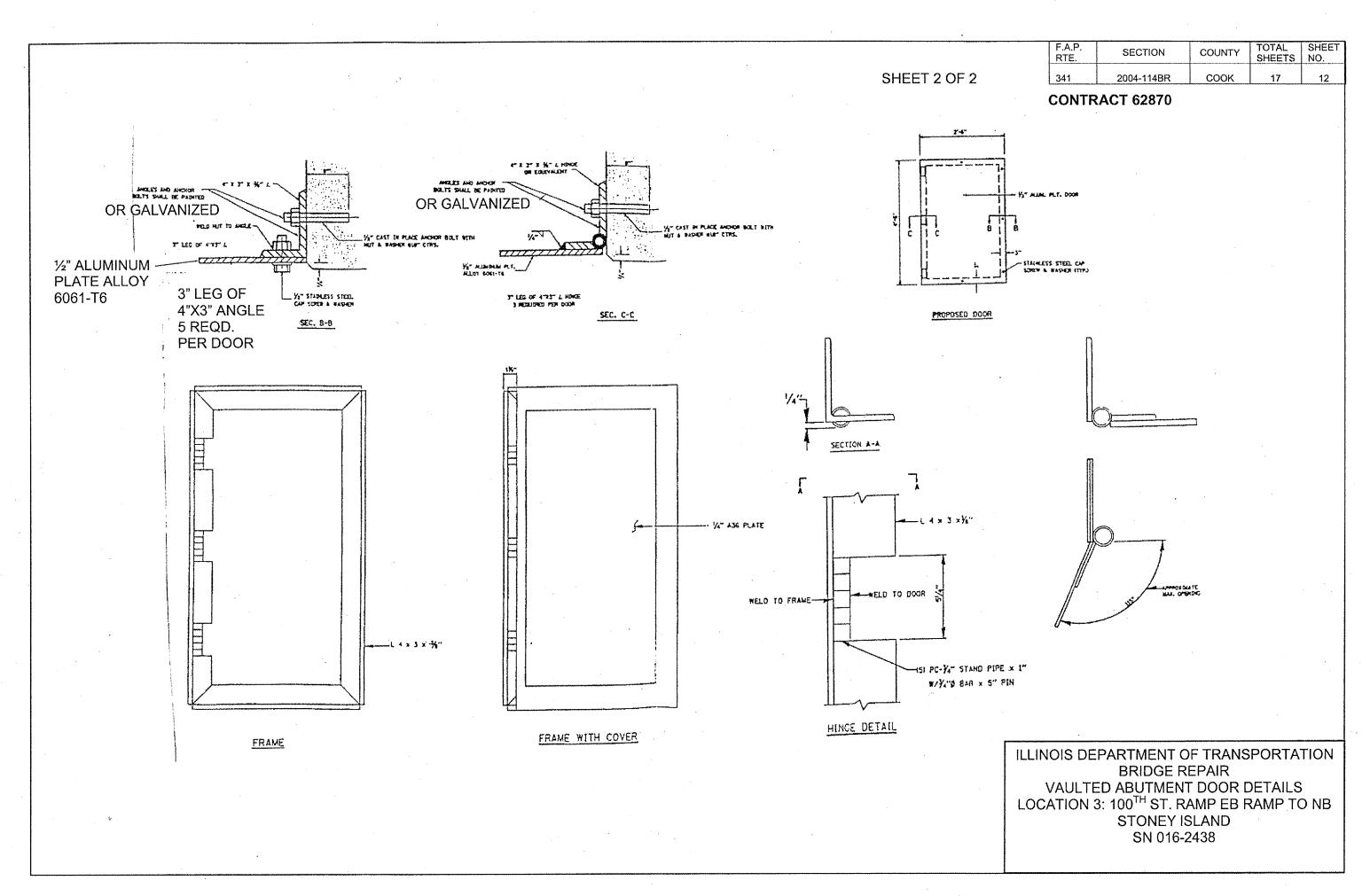
**CONTRACT 62870** 

#### General Note:

Plan dimensions and details relative to existing structure have been taken from existing plans and are subject to nominal construction variations. It shall be the Contractor's responsibility to verify such dimensions and details in the field 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 the scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.

Expansion bolts shall be 3/4 " diameter hooked bolts & shall extend 9" min. into concrete.





form date: 5/05/2003

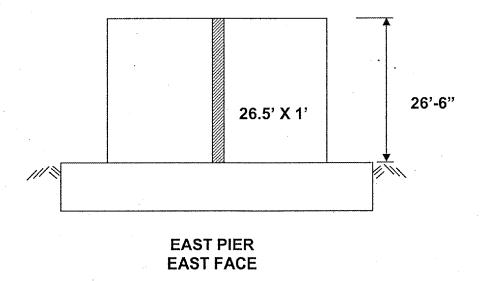
Total Bill of Material				
Item	Unit	Qty		
Formed Concrete Repair ≤ 5"	SQ FT	53.0		

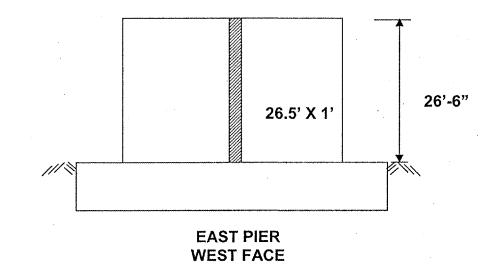
			TOTAL	SHEET
ROUTE	SECTION	COUNTY	SHEETS	NUMBER
SN 016-2439	2004-114 BR	COOK	17	13

#### **CONTRACT 62870**

#### General Note:

Plan dimensions and details relative to existing structure have been taken from existing plans and are subject to nominal construction variations. It shall be the Contractor's responsibility to verify such dimensions and details in the field 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 the scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.





ILLINOIS DEPARTMENT OF TRANSPORTATION
BRIDGE REPAIR
LOCATION 4: 100<sup>TH</sup> ST. OFF RAMP
OVER ACCESS RD
SN 016-2439



Formed Concrete Repair ≤ 5 " = 53 SQ FT

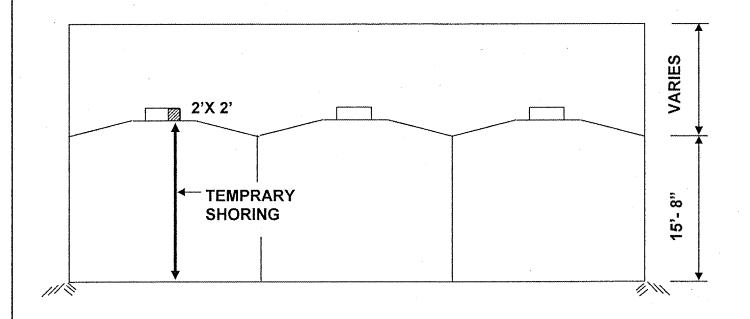
	4
Unit	Qty
SQ FT	20.0
L SUM	1
	SQ FT

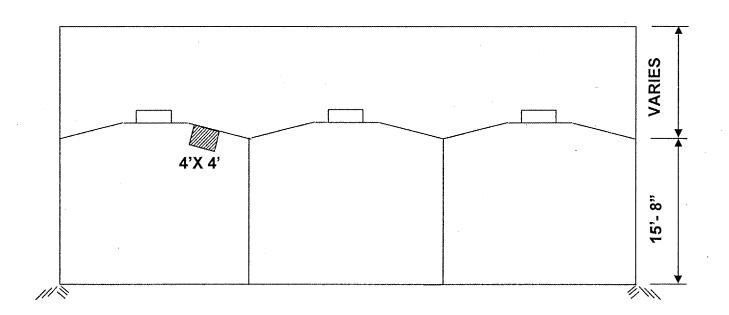
			TOTAL	SHEET
ROUTE	SECTION	COUNTY	SHEETS	NUMBER
SN 016-2441	2004-114 BR	COOK	. 17	14

#### **CONTRACT 62870**

#### General Note:

Plan dimensions and details relative to existing structure have been taken from existing plans and are subject to nominal construction variations. It shall be the Contractor's responsibility to verify such dimensions and details in the field 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 the scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.





#### **SOUTH ABUTMENT**

Reaction Table for Temp. Shoring & Cribbing				
	RDL (kips)	RSDL (kips)	RLL (kips)	RI (kips)
SO ABUT	236	0	100	20

#### **NORTH ABUTMENT**

ILLINOIS DEPARTMENT OF TRANSPORTATION
BRIDGE REPAIR
LOCATION 5: STONEY ISLAND AVE
NB OVER 103<sup>RD</sup> ST
SN 016-2441



Formed Concrete Repair ≤ 5 " = 20 SQ FT

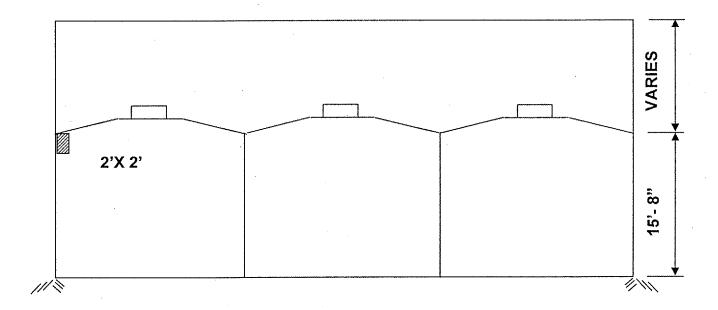
Total Bill of Material			
Item	Unit	Qty	
Formed Concrete Repair ≤ 5"	SQ FT	4.0	

·			TOTAL	SHEET
ROUTE	SECTION	COUNTY	SHEETS	NUMBER
SN 016-2442	2004-114 BR	COOK	17	15

#### CONTRACT 62870

#### General Note:

Plan dimensions and details relative to existing structure have been taken from existing plans and are subject to nominal construction variations. It shall be the Contractor's responsibility to verify such dimensions and details in the field 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 the scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.

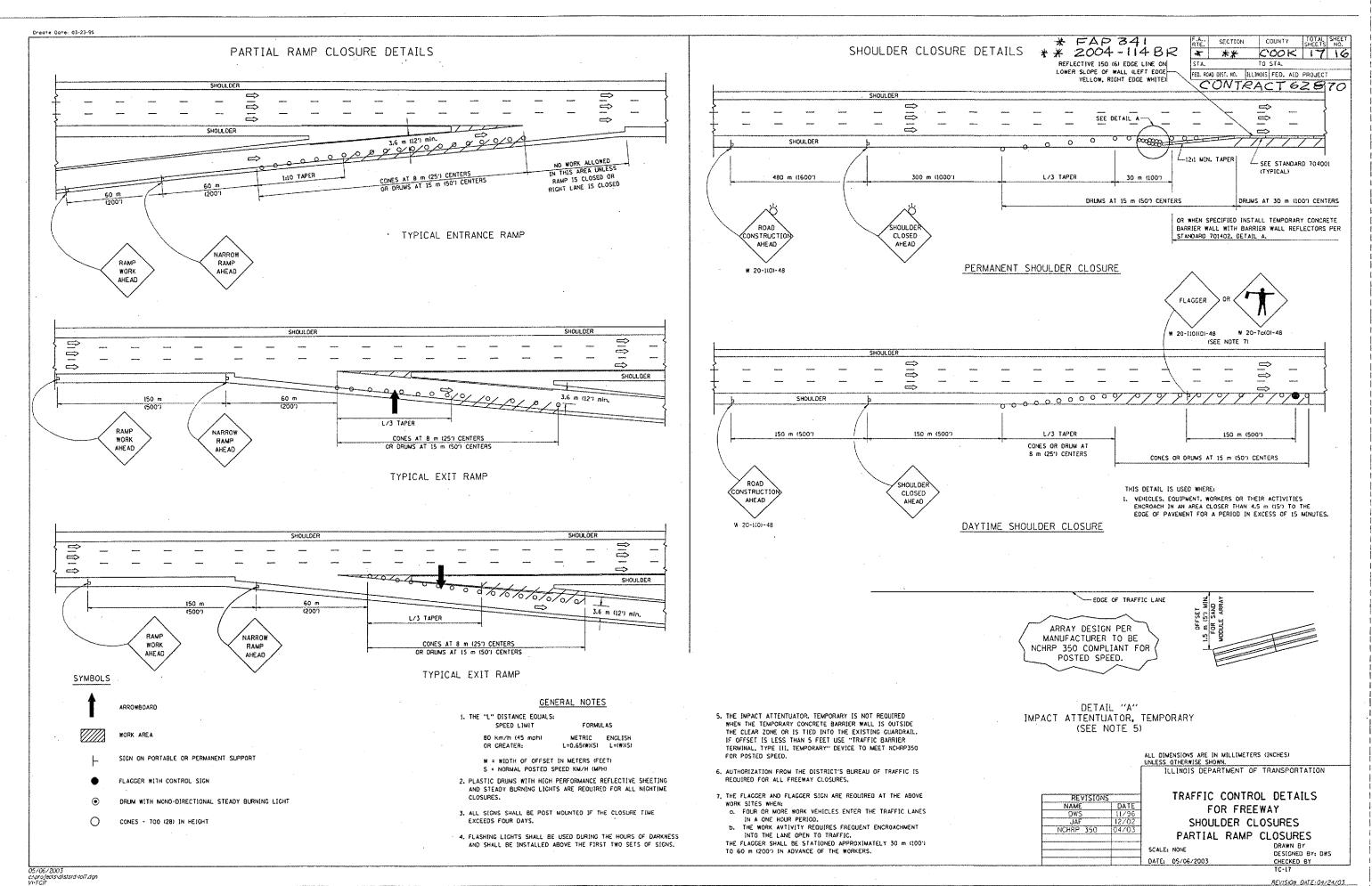


NORTH ABUTMENT

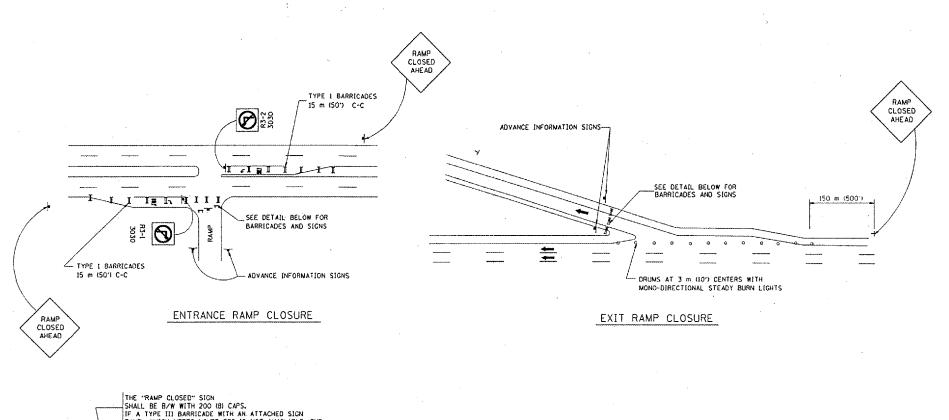
ILLINOIS DEPARTMENT OF TRANSPORTATION BRIDGE REPAIR LOCATION 6: STONEY ISLAND AVE SB OVER 103<sup>RD</sup> ST SN 016-2442



Formed Concrete Repair ≤ 5 " = 4 SQ FT



REVISION DATE: 04/24/03



THE TRUE CLOSED SION
SIGNAL BE DRY WITH ARE TOO (B) CLPS.

IF A TYPE III BARRICADE WITH ARE TACHED SION
PARKE WHICH METER SON TEMPORARY
SION SUPPORTS DIRECTLY IN FRONT OF THE BARRICADE.

TYPE III BARRICADES

1.2 m 149

DO NOT

ENTER

RS-1-4848

DETAIL FOR REQUIRED BARRICADES & SIGNS

#### NOTES:

- I. CONES MAY BE SUBSTITUTED FOR TYPE 1 AND TYPE II BARRICADES DURING DAY OPERATIONS, CONES SHALL BE A MINIMUM OF 28" IN HEIGHT.
- 2. STEADY BURN LIGHTS WILL NOT BE REQUIRED FOR DAY OPERATIONS.
- 3. THE RAMP CLOSURE ADVANCE INFORMATION SIGNS SHALL BE ERECTED IF THE CLOSURE TIME EXCEEDS TWENTY- FOUR (24) HOURS.
- ADDITIONAL ADVANCE WARNING SIGNS ON EXIT GUIDE SIGNING WILL BE REQUIRED FOR EXIT RAMP CLOSURES THAT EXCEED TWENTY FOUR (24) HOURS IN LENGTH.

\*FAP 341 \*\* 2004-114 BR F.A. SECTION COUNTY TOTAL SHEET NO.

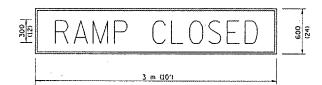
\*\*\* \*\*\* COOK 17 17

STA. TO STA.

FED. ROAD DIST. NO. | ILLINGIS | FED. AID | PROJECT

CONTRACT 6 2870

RAMP CLOSURE ADVANCE WARNING SIGN

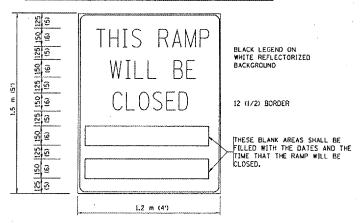


#### BLACK LEGEND ON ORANGE REFLECTORIZED BACKGROUND

25 (I) BORDER

THESE SIGNS ARE REQUIRED ON ALL THE EXIT GUIDE SIGNS FOR THE CLOSED EXIT RAMPS.

#### RAMP CLOSURE ADVANCE INFORMATION SIGN



THESE SIGNS ARE REQUIRED ON BOTH SIDES OF THE RAMP, 4 MINIMUM OF 1 WEEK IN ADVANCE OF THE CLOSURE.

CENERAL NOTES:

 CONES MAY BE SUBSTITUTED FOR DRUMS OR TYPE II BARRICADES DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 700 (28) HICH.

- STEADY BURN LIGHTS WILL NOT BE REQUIRED FOR DAY OPERATIONS.
- 3. A FLAGGER SHALL BE POSITIONED AT EACH CLOSED RAMP THAT IS OPEN TO CONSTRUCTION VEHICLES.
- 4. FOR DAYTIME RAMP CLOSURES, LASTING 6 HOURS OR LESS, THE CONTRACTOR MAY ELIMINATE THE ADVANCE WARNING SIGNS ON THE EXIT GUIDE SIGNS.
- ALL ROUTE MARKERS AND TRAILBLAZER ASSEMBLIES WHICH DIRECT MOTORISTS TO A CLOSED ENTRANCE RAMP SHALL BE COVERED.
- 6. THE SIGNING AND BARRICADING WHICH IS REQUIRED BY THIS DETAIL SHALL BE CONSIDERED INCIDENTAL TO TRAFFIC CONTROL AND PROTECTION.
- 7. AUTHORIZATION FROM THE DISTRICT'S BUREAU OF TRAFFIC IS REQUIRED FOR ALL RAMP CLOSURES.

ALL DIMENSIONS ARE IN MILLIMETERS (INCHES)
UNLESS OTHERWISE SHOWN,

ILLINOIS DEPARTMENT OF TRANSPORTATION

12/02 SCALE: NONE

DATE 05/06/2003

DRAWN BY CHECKED BY TC-8

REVISION DATE: 04/03/03

05/06/2003 c\projects\diststd\tc08.dgn VI-TC8