J PREPARATION ENGINEER: 705-4178 RICT ONE – DESIGN – PLAN ENG / ROBERT BORO (847) 7

TOTAL SHEET ROUTE **SECTION** COUNTY **SHEETS NUMBER** 0404.2-2B-I COOK FAU 3513

FOR INDEX OF SHEETS SEE SHEET 2

IMPROVEMENT IS

LOCATED IN THE CITY OF

CHICAGO

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

FAU 3513: MILWAUKEE AVE. OVER I-90/94 (KENNEDY EXPWY.) SECTION: 0404.2-2B-I STRUCTURAL STEEL REPAIR **COOK COUNTY** C-91-066-05

R 14 E

D-91-066-05 Lake

CONTRACT NO. 62879

LOCATION OF IMPROVEMENT INDICATED THUS:

LOCATION OF IMPROVEMENT AT S.N.: 016-2045

TRAFFIC DATA:

CONTRACT NO. 62879

I-90/94 (KENNEDY EXPRESSWAY)

SPEED LIMIT = 55 MPH 2002 ADT = 287,100

WEST CHICAGO TOWNSHIP

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

March 25 2005

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

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

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
FAU 3513	0404.2-2B-I	COOK	. 8	2

INDEX OF SHEETS

CONTRACT 62879

G	E	N	E	R	A	L	١	J	O	T	E	S

BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL C.U.A.N. CHICAGO UTILITY ALERT NETWORK AT (312)-744-7000 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE AND GAS UTILITIES (48 HOURS NOTIFICATION IS REQUIRED).

THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.

THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR AT (847) 705-4151/4155 A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.

THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ACCESS TO ABUTTING PROPERTY AT ALL TIMES DURING THE CONSTRUCTION OF THIS PROJECT.

DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.

THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES.

WHEN ARTIFICIAL LIGHTING IS USED IN NIGHT OPERATIONS, THE CONTRACTOR SHALL EXERCISE THE UP MOST PRECAUTIONS IN PREVENTING ADVERSE VISIBILITY TO THE MOTORING PUBLIC AND ADJOINING RESIDENTIAL AREAS.

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	INDEX OF SHEETS, STATE STANDARDS AND GENERAL NOTES
3	SUMMARY OF QUANTITIES
4 -5	STRUCTURAL STEEL REPAIR PLANS
6	ENTRANCE AND EXIT RAMP CLOSURE DETAIL
7	SINGLE LANE WEAVE AND MULTI-LANE WEAVE
8	PARTIAL RAMP AND SHOULDER CLOSURE DETAILS

STATE STANDARDS

STANDARDS	DESCRIPTION
701101 - 01	MULTI-LANE OFF-ROAD OPERATIONS
701400 - 02	APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY
701401 - 03	LANE CLOSURE, FREEWAY/EXPRESSWAY
701411 - 03	MULTI-LANE, TRAFFIC CONTROL AT ENTRANCE OR EXIT RAMPS
701446	TWO LANE CLOSURE, FREEWAY/EXPRESSWAY
702001 - 0 5	TRAFFIC CONTROL DEVICES
	·

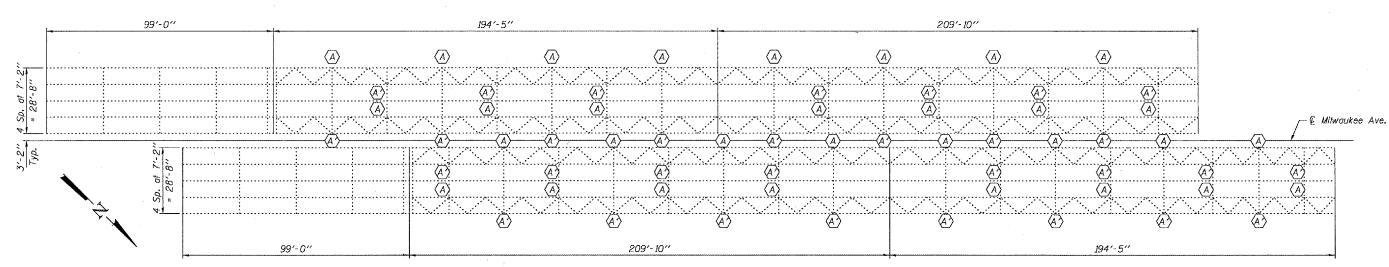
ILLINOIS DEPARTMENT OF TRANSPORTATION
INDEX OF SHEETS
STATE STANDARDS
GENERAL NOTES

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
FAU 3513	0404.2-2B-I	соок	8	3

SUMMARY OF QUANTITIES		URBAN	CONTRACT 62879						
		TOTAL QUANTITIES	TAL CONSTRUCTION TYPE CODE, SETY 24						
CODE NO	ITEM	UNIT			COOK	COUNTY			-
				SN 016-2045		·			
50501130	STRUCTURAL STEEL REPAIR	POUND	20930.0	20930.0					
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	3.0	3.0					
67100100	MOBILIZATION	L SUM	1.0	1.0					
X7011015	TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS)	L SUM	1.0	1.0					
					·		·		
							;		
			·						
									·
		·							
							, :		

ILLINOIS DEPARTMENT OF TRANSPORTATION SUMMARY OF QUANTITIES

SHEET NO. 1STATE OF ILLINOIS 8 4 COOK DEPARTMENT OF TRANSPORTATION Contract No. 62879 © Brg. N. Abut. © Brg. S. Abut. Bent 1 Be Bent 2→ **ELEVATION** GENERAL NOTES 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. The existing structural steel coating contains lead. The Contractor should take



FRAMING PLAN

 \overline{AA} - Retrofit of lateral bracing at existing stiffeners only. See sheet 2 of 2.

TOTAL BILL OF MATERIAL

appropriate precautions to deal with the presence of lead on this project.

Cost of removal and 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 Structural Steel Repair.

ITEM	UNIT	QUANTITY
Structural Steel Repair	Pound	20930

REPAIR DETAILS

MILWAUKEE AVE. OVER KENNEDY EXP.

COOK COUNTY

SN 016-2045



MARCH 15, 2005

AMINED COMMENT OF STRUCTURES

ENGINEER OF BRIDGES AND STRUCTURES

ENGINEER OF BRIDGES AND STRUCTURES

EXPIRES 11-30-2006

VHV

DESIGNED VICTOR H. Velia

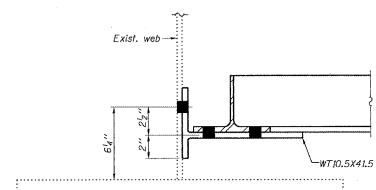
CHECKED DAO

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

| ROJIE NO. | SECTION | CODATY | TOTAL OF SECTION | OF SE

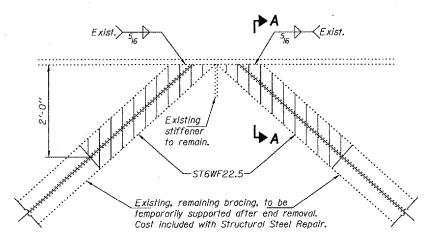
2 SHEETS

Contract No. 62879

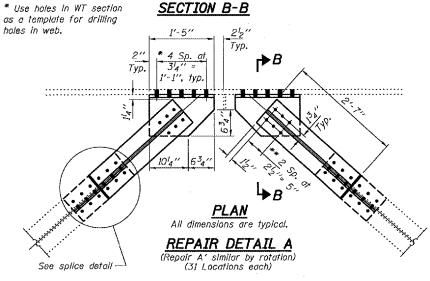


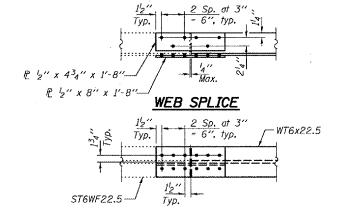
SECTION A-A

Exist. web-



PLAN
Hatched areas indicate removal.





FLANGE SPLICE SPLICE DETAIL

Use holes in splice £s as a template for drilling holes in ST6WF22.5.

Procedure for Repair Detail

- I. Remove existing sections of ST6WF22.5 as shown. The minimum distance from cut to face of web shall be the larger of \(^1_4\)" or web to ST section weld size, with removal of remaining material by grinding as described below. The cut shall be made parallel to the web without angling the cut towards the web. Equipment and method of cutting shall be approved by the Engineer. Any method of removal to be used shall ensure that no damage is done to the existing web, vertical stiffener or welds connecting these elements. Cutting shall be done in a manner such that the paint on the opposite face of the web is not damaged. If damage occurs, the damaged area shall be repainted at the contractor's expense and procedures shall be modified to prevent damage at subsequent removal locations.
- 2. Remove material between cut and web by grinding and grind smooth at web surface. Web plate surfaces shall have a roughness average (Ra) of 250µ in. or less. Grinding equipment shall be approved by the Engineer. The grinding operation should not gouge the girder web £.
- 3. The web surface at the modification shall be inspected using dye penetrant or magnetic particle methods. Any cracks found shall be identified and reported to the Bureau of Bridges and Structures for further disposition.
- 4. 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".

Notes:

** Use holes in WT6X22.5 section as

a template for drilling holes in web of

WT10.5X41.5 section.

All structural steel shall conform to AASHTO Classification M-270 Gr. 36, unless otherwise noted. Fasteners shall be high strength bolts. Bolts $^34''$, open holes 8 ₁₆ '', unless otherwise noted.

REPAIR DETAILS

MILWAUKEE AVE. OVER KENNEDY EXP.

COOK COUNTY

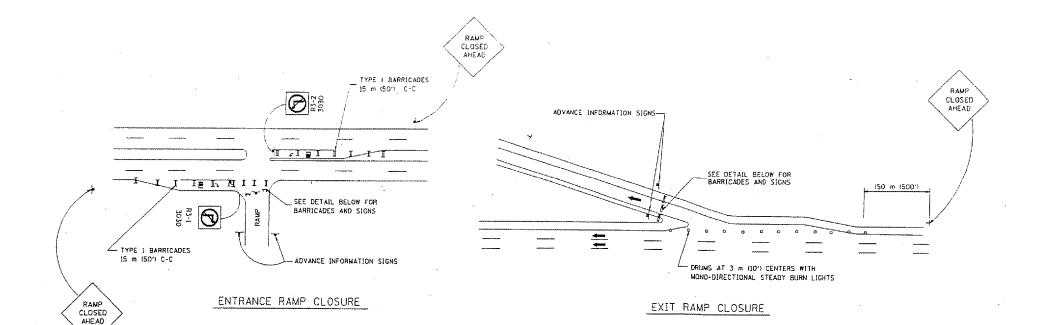
SN 016-2045

DESIGNED	VHV
CHECKED	DAB
DRAWN	baliva
CHECKED	VHV DAB

PASSED FULL SENTING SE

MARCH 15, 2005





THE "RAMP CLOSED" SIGN SHALL BE BYW WITH 200 (8) CAPS.

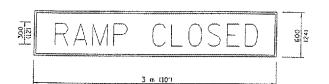
IF A TYPE III BARRICADE WITH AN ATTACHED SIGN
PANEL WHICH MEETS NCHPP 350 IS NOT AVAILABLE, THE
SIGNS MAY BE MOUNTED ON NCHRP 350 TEMPORARY SIGN SUPPORTS DIRECTLY IN FRONT OF THE BARRICADE. FLASHER LINIT (AMBER) TYPE III BARRICADES -DO NOT 1.2 m (4') ENTER RAMP CLOSED © RS-1-4848

DETAIL FOR REQUIRED BARRICADES & SIGNS

NOTES:

- 1. CONES MAY BE SUBSTITUTED FOR TYPE I 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.
- 4. ADDITIONAL ADVANCE WARNING SIGNS ON EXIT GUIDE SIGNING WILL BE REQUIRED FOR EXIT RAMP CLOSURES THAT EXCEED TWENTY FOUR (24) HOURS IN LENGTH.

RAMP CLOSURE ADVANCE WARNING SIGN

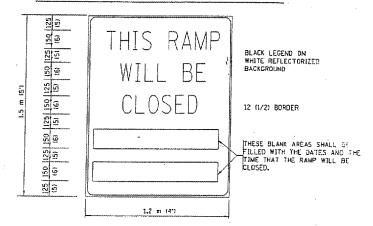


BLACK LEGEND ON ORANGE REFLECTORIZED BACKGROUND

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 I WEEK IN ADVANCE OF THE CLOSURE,

CENERAL NOTES:

- 1. CONES MAY BE SUBSTITUTED FOR DRUMS OR TYPE II BARRICADES DURING DAY OPERATIONS, CONES SHALL BE A MINIMUM OF 70D (28) HIGH.
- 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.
- FOR DAYTIME RAMP CLOSURES, LASTING 6 HOURS OR LESS, THE CONTRACTOR MAY ELIMINATE THE ADVANCE WARNING SIGNS ON THE EXIT GUIDE SIGNS.
- 5. ALL ROUTE MARKERS AND TRAILBLAZER ASSEMBLIES WHICH DIRECT MOTORISTS TO A CLOSED ENTRANCE RAMP SHALL
- 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

FREEWAY REVISIONS NAME ENTRANCE AND EXIT RAMP CLOSURE DETAILS _0**w**s 1/90 OWS DWS 12/94 DWS/JAF

SCALE: NONE 4/03

DRAWN BY DATE 05/06/2003

CHECKED BY

05/06/200 Nore jects\diststa\tc0@don

REVISION DATE 04/03/03

