DISTRICT ONE – DESIGN – PLAN PREPARATION ENGIN	KEN ENG / ROBERT BORO (847) 705-4178 (MCHD)
Ž	347)
<u></u>	<u></u>
Sign Sign	30R
DES	RIE
1	BE!
\overline{Z}	/R
\overline{C}	S
TR	回
음	五

Form date: 5/05/2003

EER:

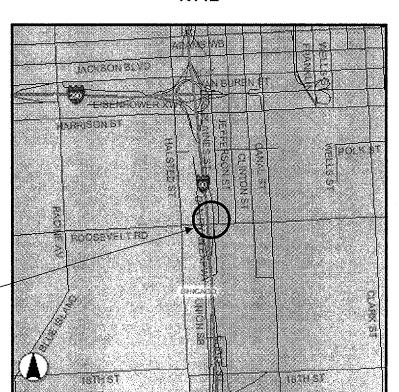
TOTAL SHEET **SECTION SHEETS** ROUTE COUNTY NUMBER **FAP 347** 2525.3-1H-BR COOK 17

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

PROPOSED HIGHWAY PLANS

FAP 347: ROOSEVELT ROAD OVER I-90/94 (DAN RYAN EXPRESWAY) SECTION: 2525.3-1H-BR BRIDGE REPAIR / BEAM REPLACEMENT COOK COUNTY C-91-209-05 SN 016-0478

R14E



WEST CHICAGO TOWNSHIP

IMPROVEMENT LOCATED IN THE CITY OF CHICAGO

FOR INDEX OF SHEETS SEE SHEET 2

TRAFFIC DATA (ROOSEVELT ROAD)

SPEED LIMIT = 30 MPH 2002 ADT = 29,400

TRAFFIC DATA (I-90/94)

SPEED LIMIT = 45 MPH 2003 ADT = 236,100

IMPROVEMENT LOCATION

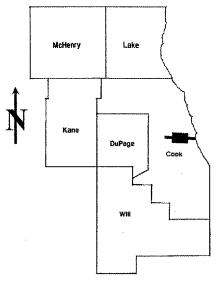
T39N

CONTRACT NO. 62956

s:\contracts-maintenance\wp\11x17plans\62956 jk\cover sheet - 62956.doc

CONTRACT NO. 62956

D-91-209-05



LOCATION OF IMPROVEMENT INDICATED THUS: -

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

SUBMITTED: DO 30

Diane M. O'Kelfe Condended Diane M. O'Kelfe Condended DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

3. 20<u>CC</u>

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

> C.U.A.N.: CHICAGO UTILITY **ALERT NETWORK** (312)774-7000

			TOTAL	SHEET
ROUTE	SECTION	COUNTY	SHEETS	NUMBER
FAP 347	2525.3-1H-BR	COOK	17	2

CONTRACT: 62956

INDEX OF SHEETS

1	TITLE SHEET
2	INDEX OF SHEETS, STATE STANDARDS
3	GENERAL NOTES
4-5	SUMMARY OF QUANTITIES
6	TRAFFIC STAGING PLANS
7	ELECTRICAL PLAN
8-12	BRIDGE REPAIR PLANS
13	TRAFFIC CONTROL AND PROTECTION FOR SIDE
	ROADS, INTERSECTIONS & DRIVEWAYS
14-15	CITY OF CHICAGO TYPICAL PAVEMENT MARKINGS
16	FREEWAY ENTRANCE AND EXIT RAMP CLOSURE DETAIL
17	TRAFFIC CONTROL DETAILS FOR FREEWAY SHOULDER
	CLOSURES PARTIAL RAMP CLOSURES

STATE STANDARDS

	701301 <i>-0</i> 2	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
	701400 -02	APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY
	701401 -03	LANE CLOSURE, FREEWAY/EXPRESSWAY
	701411 -03	LANE CLOSURE, MULTILANE, AT ENTRANCE OR EXIT RAMP, FOR SPEEDS > 45 MPH
	701446	TWO LANE CLOSURE, FREEWAY/EXPRESSWAY
	701602 -02	URBAN LANE CLOSURE, MULTILANE, 2W WITH BIDIRECTIONAL LEFT TURN LANE
	701801 -03	LANE CLOSURE, MULTILANE 1W OR 2W CROSSWALK OR SIDEWALK CLOSURE
2	702001 -<i>05</i>	TRAFFIC CONTROL DEVICES
	704001 -02	TEMPORARY CONCRETE BARRIER

ILLINOIS DEPARTMENT OF TRANSPORTATION

INDEX OF SHEETS STATE STANDARDS

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
FAP 347	2525.3-1H-BR	COOK	17	3

GENERAL NOTES

CONTRACT 62956

BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "C.U.A.N." (CHICAGO UTILITY ALERT NETWORK) AT (312)774-7000 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE AND GAS UTILITIES. (48 HOUR 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.

BEFORE BEGINNING ANY WORK, THE CONTRACTOR SHALL RETAIN AND RECORD (FOR FUTURE REFERENCES), ALL EXISTING PAVEMENT MARKING LINES AND RAISED REFLECTIVE PAVEMENT MARKERS IN ORDER THAT THESE LOCATIONS CAN BE RE-ESTABLISHED FOR STRIPING. EXACT LOCATIONS OF ALL STRIPING SHALL BE AS DIRECTED BY THE ENGINEER.

ALL DAMAGE TO EXISTING PAVEMENT MARKINGS OR RAISED REFLECTIVE PAVEMENT MARKERS OUTSIDE THE CONCRETE REMOVAL LINE SHOWN ON THE PLANS SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.

THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR AT (847)705-4151 FOR EXPRESSWAY AND (847) 705-4470 FOR ROOSEVELT ROAD A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.

THE CONTRACTOR SHALL CONTACT SCOTT KUZNICKI, TRAFFIC FIELD ENGINEER AT (773) 685-8386, TWO (2) WEEKS PRIOR TO PLACEMENT OF PERMANENT PAVEMENT MARKINGS.

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.

CONCRETE SUPERSTRUCTURE SHALL HAVE A SEVEN (7) DAY MINIMUM CURE TIME.

WHEN ARTIFICIAL LIGHTING IS UTILIZED IN NIGHT OPERATIONS, THE CONTRACTOR SHALL EXERCISE THE UTMOST PRECAUSTIONS IN PREVENTING ADVERSE VISIBILITY TO THE MOTORING PUBLIC AND ADJOINING RESIDENTIAL AREAS.

THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES AND THE CITY OF CHICAGO.

THE ADVANCE WARNING SIGN DETAIL FOR ARTERIAL TRAFFIC LOCATED IN THE SPECIAL PROVISIONS FOR "TEMPORARY INFORMATION SIGNING FOR LANE CLOSURES" IS APPLICABLE ONLY TO ARTERIAL ROADS AND SHALL NOT BE APPLIED TO EXPRESSWAYS.

ILLINOIS DEPARTMENT OF TRANSPORTATION

GENERAL NOTES

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
FAP 347	2525.3-1H-BR	COOK	17	4

MCHD CLAIM #712896

CONTRACT: 62956

	SUMMARY OF QUANTITIES	URBAN CONSTRUCTION TYPE CODE SFTY –2A 100°/- MCHD	
CODE NO.	DESCRIPTION	UNIT	TOTAL QUANTITIES
50102400	CONCRETE REMOVAL	CU YD	53
50300255	CONCRETE SUPERSTRUCTURE	CU YD	53
50300300	PROTECTIVE COAT	SQ YD	144.6
50500405	FURNISHING AND ERECTING STRUCTURAL STEEL	POUND	25,570
50500505	STUD SHEAR CONNECTORS	EACH	267
50501110	STRUCTURAL STEEL REMOVAL	POUND	25,480
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	8,050
50900905	REMOVING AND RE-ERECTING EXISTING RAILING	FOOT	103
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	1
67100100	MOBILIZATION	L SUM	1
70102632	TRAFFIC CONTROL AND PROTECTION, STANDARD 701602	L SUM	1
70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	1
70400100	TEMPORARY CONCRETE BARRIER	FOOT	140
XX002293	REMOVE, STORE AND RE-ERECT OVERHEAD SIGN STRUCTURE- BRIDGE MOUNTED	EACH	
X0322467	TEMPORARY INFORMATION SIGNING FOR LANE CLOSURE	SQ FT	48
X0323574	MAINTENANCE OF LIGHTING SYSTEM	CAL MO	1
X7011015	TRAFFIC CONTROL AND PROTECTION (EXPRESSWAY)	L SUM	1

ILLINOIS DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES SHEET / OF 2

Rev.

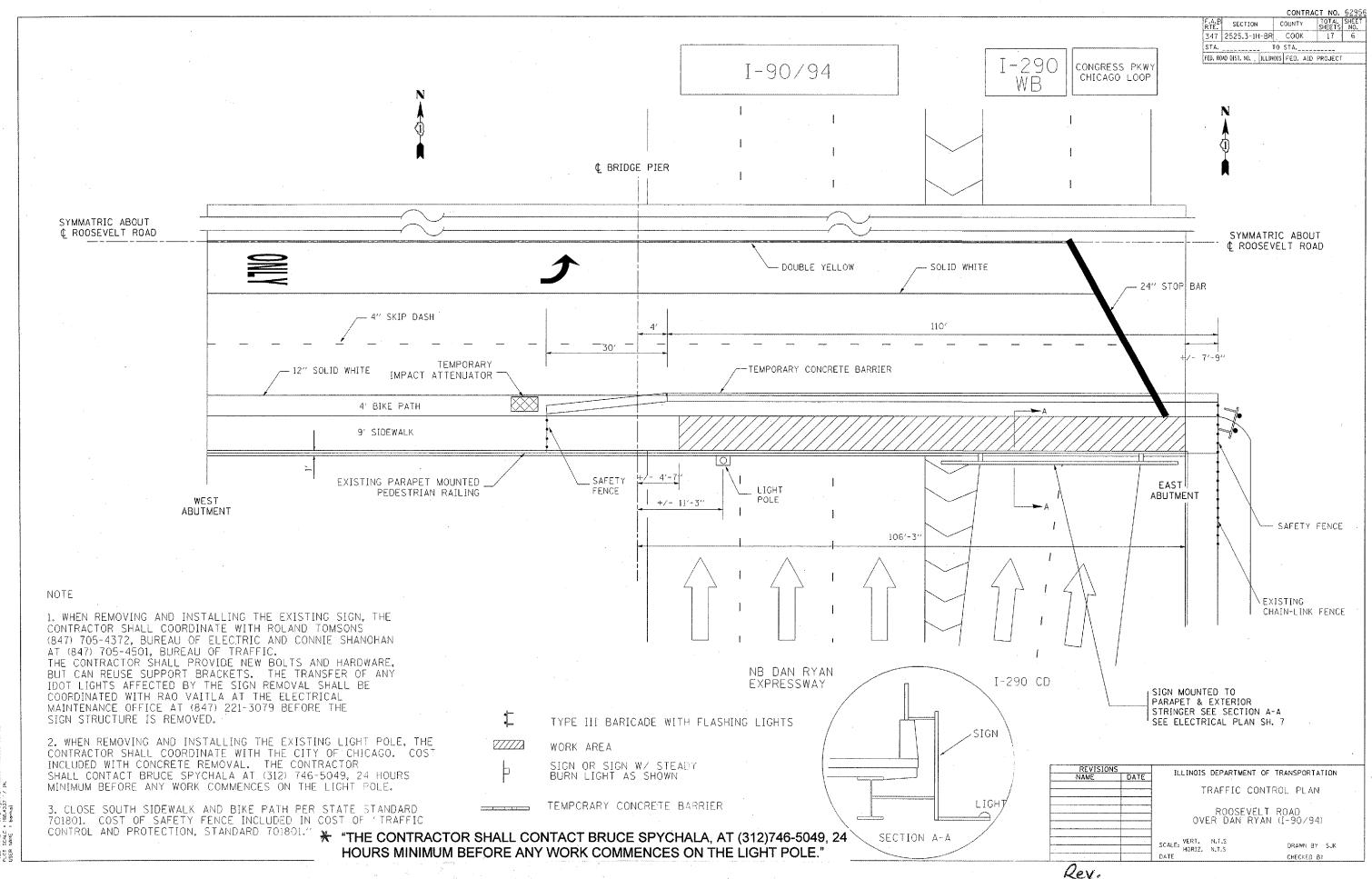
			TOTAL	SHEET
ROUTE	SECTION	COUNTY	SHEETS	NUMBER
FAP 347	2525.3-1H-BR	COOK	17	5

	SUMMARY OF QUANTITIES	CONSTRUCTION TYPE CODE SFTY -2A 100% MCHD	
CODE NO.	DESCRIPTION	UNIT	TOTAL QUANTITES
X8040105	ELECTRIC CONNECTION TO SIGN STRUCTURE (SPECIAL)	EACH	1
Z0003600	BEAM STRAIGHTENING	L SUM	1
Δ _{Z0030240}	△Z0030240 IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST		1
	LEVEL 2		
Z0047300	PROTECTIVE SHIELD	SQ YD	125
X8040150	REMOVE ELECTRICAL CONNECTION TO SIGN STRUCTURE	EACH	1

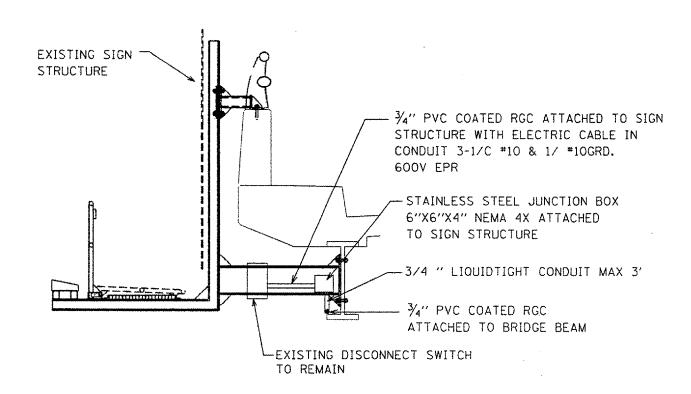
A SFTY-3N

ILLINOIS DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES SHEET 2 OF 2



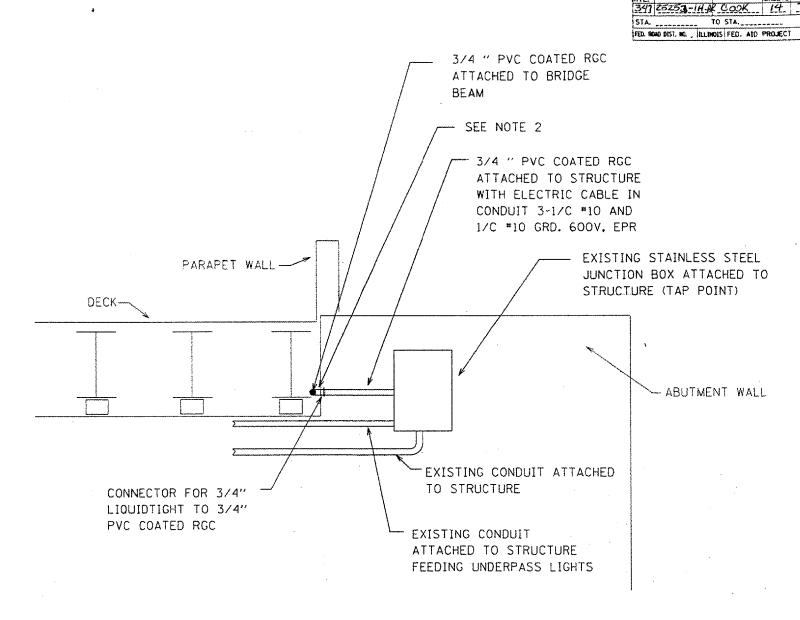
GATE = 1755/2006 Noby = 0:100-0_perts/m123304\m123304oo.m32 SCGLE = 188.4337 '/ 3N, 1 NAME = booksl



SIDE VIEW OF SIGN STRUCTURE

NOTES:

- 1. BEFORE THE EXISTING SIGN IS REMOVED THE CONTRACTOR SHALL DISCONNECT POWER AND REMOVE ALL WIRES AND CONDUITS FROM THE EXISTING DISCONNECT SWITCH TO THE EXISTING JUNCTION BOX ATTACHED TO THE ABUTMENT WALL (TAP POINT).
- 2. 3/4" LIQUIDTIGHT FLEX CONDUIT (MAX 3") SHALL BE USED AT THE TRANSITION POINT FROM THE ABUTMENT WALL TO THE BRIDGE BEAM.



SIDE VIEW OF ABUTMENT WALL

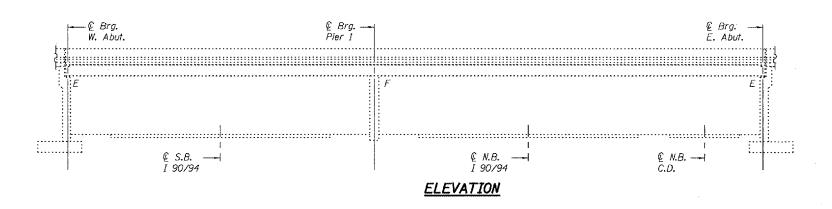
REVISIONS
NAME DATE

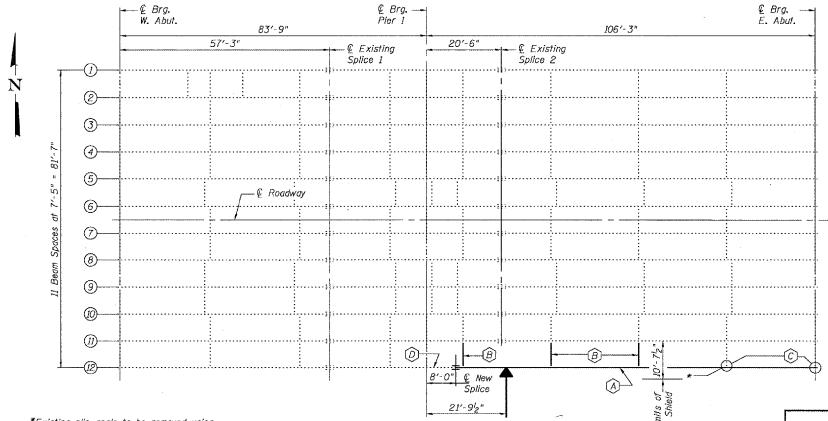
CONTROL

SECTION

| DATE | 12/14/2005 | NOWE | #FILEL® | SCALE | 529,411 '/ IN.

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION





*Existing clip angle to be removed using the air-arc method and grind smooth all weld material remaining on the diaphragm flanges. Cost included with Structural Steel Removal.

CHECKED ATH 15.5.B.

081-004625

Expires: November 30, 2006

PLAN

- (A) Remove and replace Beam Segment.
- Remove and replace existing Diaphragms and Clip angles.
- (C) Remove and replace existing Clip angles.
- (D) Beam Straightening required.

SHEET NO. FAP 17 8 Cook 347

SHEET NO. $\it I$ 5 SHEETS

Contract Number: 62956

GENERAL NOTES

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

Diaphragm connection holes shall be $^{15}_{16}$ " ϕ for $^{3}_{4}$ " ϕ bolts. Two hardened washers shall be required at diaphragm connections.

After the new beam is in its final position and/or beam straightening operations have been completed, the Engineer in the field shall check to see that the top flange is tight against the slab. If not, the Contractor shall inject epoxy between the existing concrete deck and the top flange of the beam. See Special Provision "Epoxy Injection".

Reinforcement bars shall conform to the requirements of AASHTO M 31 or M 322 Grade 60.

Prior to pouring the new concrete deck, all loose rust, loose mill scale and other loose potentially detrimental foreign material shall be removed from the surfaces of the beams or girders in contact with concrete. The cost of this work will be included in the pay item covering removal of the existing concrete All heavy rust and other tightly adhered potentially detrimental foreign matter shall also be removed from the surfaces of the beams or girders in contact with concrete. Tightly adhered paint may remain unless otherwise noted. This removal shall be accomplished by methods that will not damage the steel. The cost of this work will be paid for according to Article 109.04 of the Standard

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.

The organic zinc rich primer/epoxy/urethane paint system shall be used for painting of new structural steel except where otherwise noted. All coats shall be applied in the shop. The color of the urethane finish coat shall match the existing color on the beam section to be replaced. See Special Provision "Cleaning and Painting New Metal Structures".

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".

Joint plates and attached bars shall be shop painted with the inorganic zinc rich primer. No field paint required.

The main load carrying member components subject to tensile stress shall conform to the Supplemental Requirements for Notch Toughness Zone 2. These components are the wide flange beams and all splice plate material except fill plates.

Fasteners shall be high strength bolts. Flange and Web splice holes shall be 15 16 " ϕ for 7 8" ϕ bolts.

TOTAL BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Concrete Removal	Cu. Yd.	53
Concrete Superstructure	Cu. Yd.	53
Furnishing and Erecting Structural Steel	Pound	25,570
Structural Steel Removal	Pound	25,480
Beam Straightening	L.S.	1
Stud Shear Connectors	Each	267
Protective Coat	Sq. Yd.	144.6
Removing and Re-erecting Existing Railing	Foot	103
Reinforcement Bars, Epoxy Coated	Pound	8,050
Protective Shield	Sq. Yd.	125

PLAN AND ELEVATION F.A.I. RT. 90/94 COOK COUNTY SN 016-0478

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION



5 SHEETS

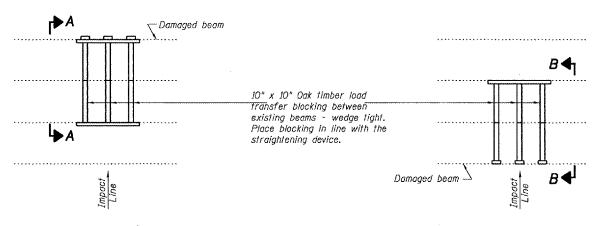
SHEET NO.

9

TOTAL

17

Contract Number: 62956



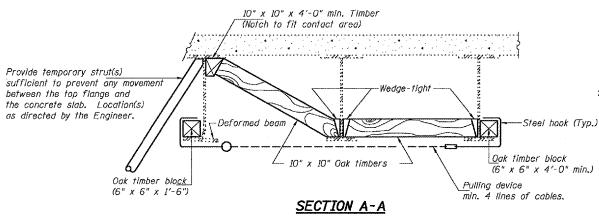
PULLING DEVIČE

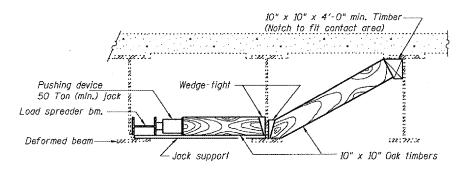
PARTIAL PLANS

PUSHING DEVICE

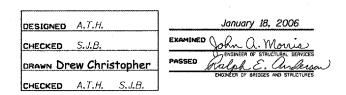
SUGGESTED BEAM STRAIGHTENING METHODS

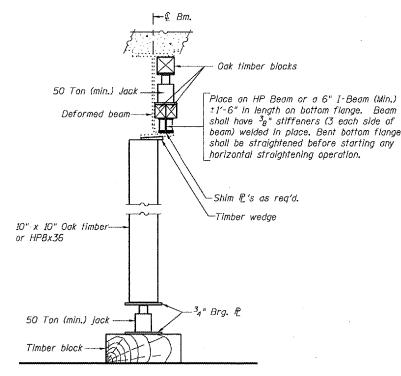
Straightening force shall be maintained on all load transfer blocking during beam straightening.





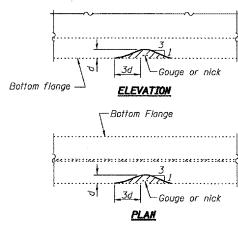
SECTION B-B





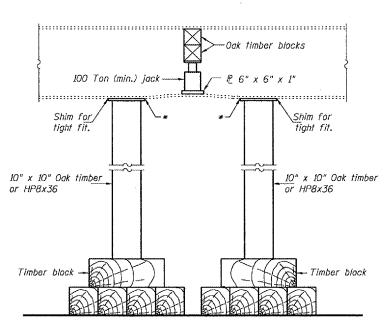
SUGGESTED VERTICAL STRAIGHTENING DETAIL

(To correct flange rotation.)



GRINDING DETAIL

Grind existing nicks, gouges and shallow cracks in the damaged beams as detailed. Ground surfaces shall be inspected for cracks using magnetic particle testing prior to initiating any beam straightening operations. Any cracks that cannot be removed by grinding approximately '4" deep shall be identified and reported to the Bureau of Bridges and Structures for further disposition. Ground surfaces shall be spot cleaned and painted with an aluminum epoxy mastic primer followed by a finish coat to match the color of the existing beam. Cost of grinding, testing and spot painting included with Beam Straightening.



SUGGESTED VERTICAL STRAIGHTENING DETAIL

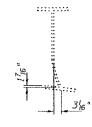
(To correct localized vertical flange deformations.,

* Edge of plate shall line up with edge of deformation.

Note

Braces and jack assembly shall be placed on same side of web.

Bent bottom flange shall be straightened before starting any horizontal straightening operations.



EXISTING DEFORMATION TO BE STRAIGHTENED

(Looking West)
(Approximate max. deflections)
Deflected length of beam to be
straightened is approximately 7'-6".

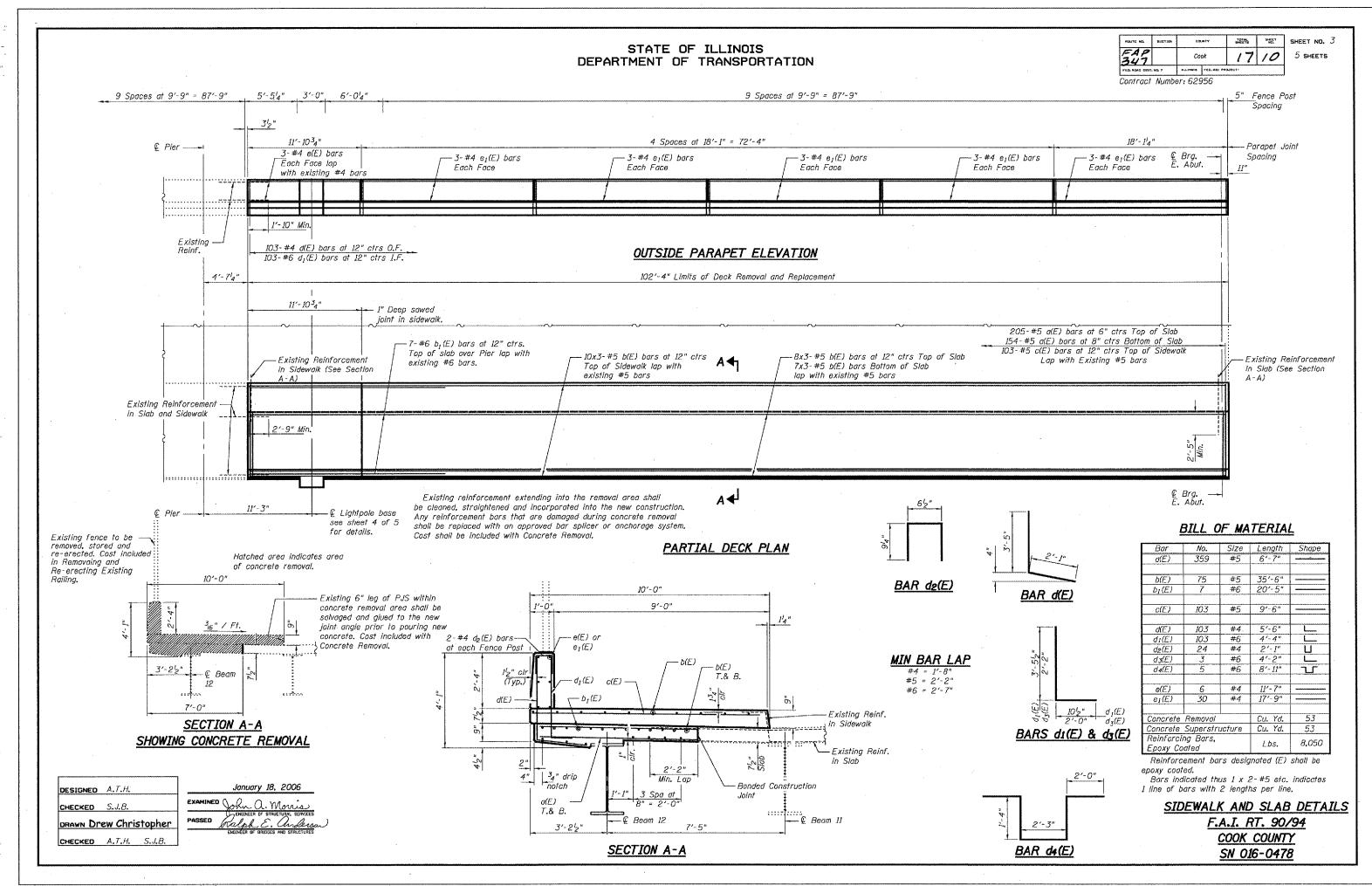
BEAM STRAIGHTENING DETAILS

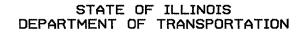
F.A.I. RT. 90/94

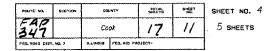
COOK COUNTY

SN 016-0478

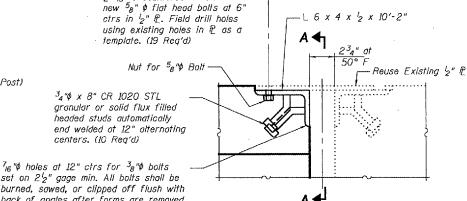
REP-1 1-14-2005







Contract Number: 62956



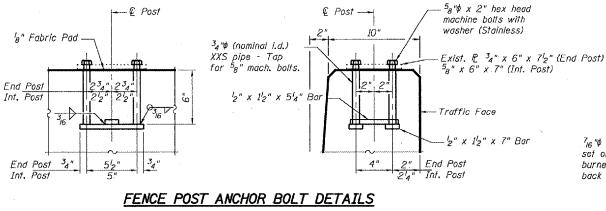
34"\$ x 8" CR 1020 STL aranular or solid flux filled headed studs automatically end welded at 12" alternating centers. (10 Reg'd)

€ "16" \$ countersunk hole for

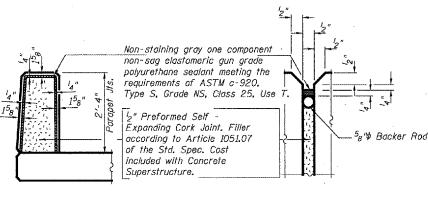
set on 2½" gage min. All bolts shall be burned, sawed, or clipped off flush with back of angles after forms are removed.

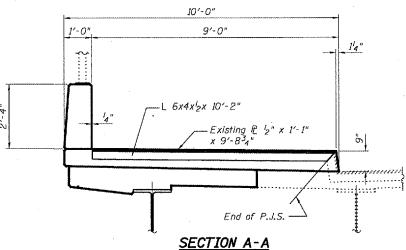
TYPICAL SIDEWALK JOINT SECTION

(Existing It to be bolted to new angle prior to placing concrete)



In lieu of the cast-in-place anchor device shown, the Contractor has the option of drilling and epoxy grouting 58 " ϕ anchor rods. Embedment shall be according to the manufacturer's specifications. Cost included with Removing and Re-erecting Existing Railing. **Existing 2" \$ PVC conduit.





PARAPET JOINT DETAILS

Dimension to be field verified. 11/2" Dia. Inside face of ***Existing 2" \$ parapet PVC conduit 1'-3" 1'-3" 2'-6"

SECTION AT LIGHTPOLE

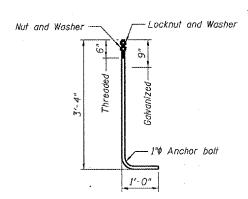
***@ Light Pole

1"\$ x 4'-4" Anchor bolts

Routing to be verified by the

Contractor with the City of Chicago.

PLAN AT LIGHTPOLE BASE

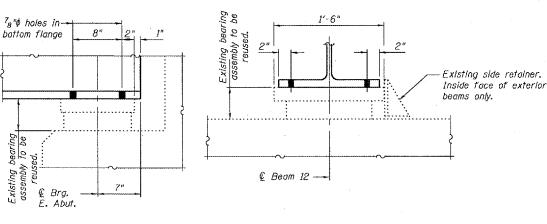


LIGHT POLE ANCHOR BOLT

(Existing Anchor Bolts shall not be reused) Contractor to verify existing anchor bolt diameter and length with the City of Chicago and replace in-kind.

- * Provide 2 flat washers, 1 regular nut and I locknut for each bolt. All nuts and washers must be galvanized. Cost included with Concrete Superstructure.
- ** Grout mixture shall consist of 1 part sand. 1 part cement and 1 part pea gravel. The grout shall contain water for a 1" slump. Cost included with Concrete Superstructure.

 ***Existing light pole shall be removed, and re-erected at the location shown on sheet 3 of 5. Any damage to the light pole or lighting system shall be repaired or replaced at the contractor's expense. The cast in place section of 2" PVC conduit may be replaced at the contractor's discretion. Cost included with Concrete Removal.



SECTION

EXISTING EAST ABUTMENT BEARING

ELEVATION

MISCELLANEOUS SLAB DETAILS F.A.I. RT. 90/94 COOK COUNTY SN 016-0478

DESIGNED A.T.H. CHECKED S.J.B. DRAWN Drew Christopher CHECKED A.T.H. S.J.B.

Watertight cap -

3-#6 d₃(E) bars

Reinforcing bars for the light pole

base are included in the Bill of

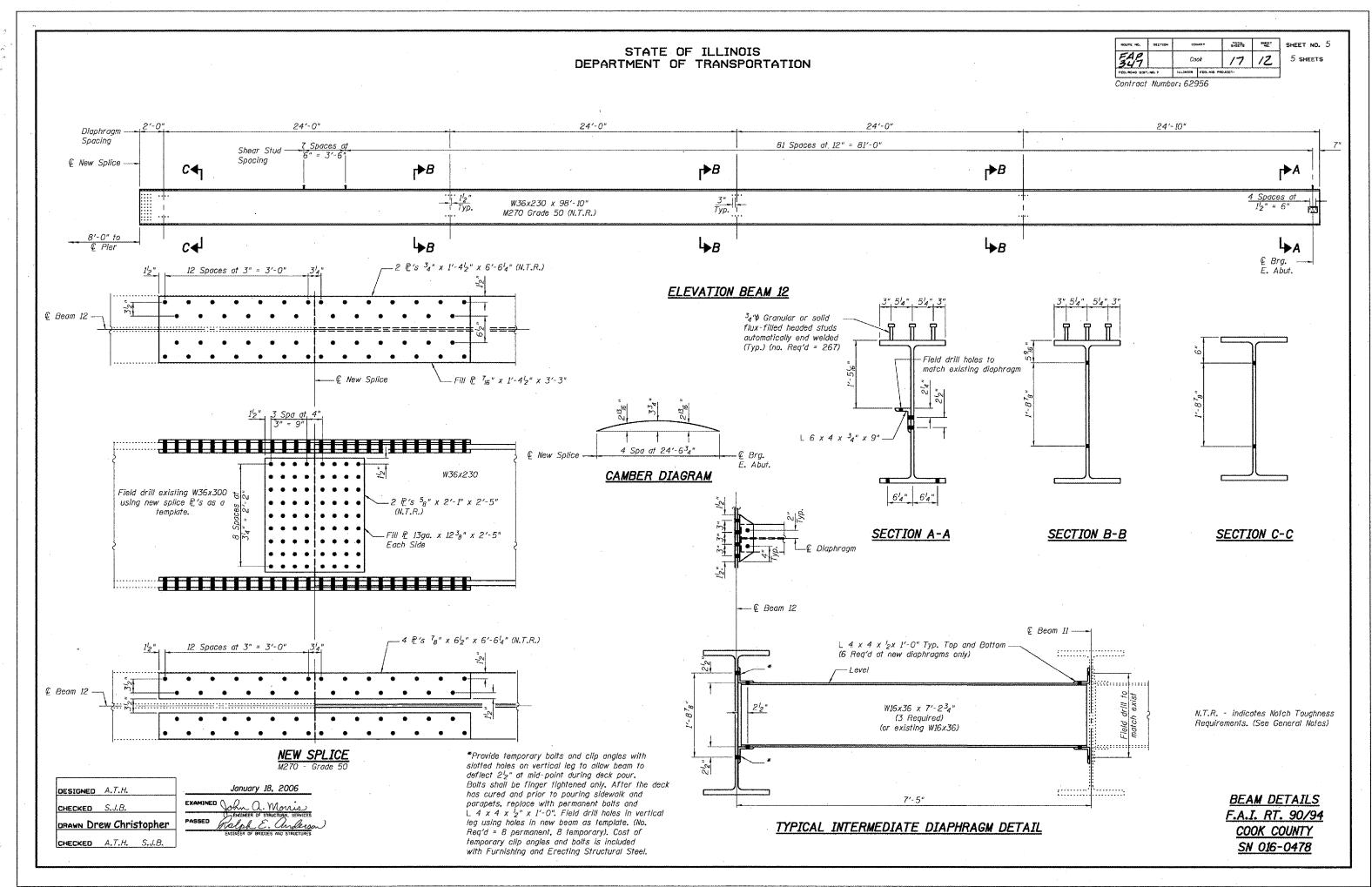
Material on Sheet 3 of 5.

2" 10"

end.

January 18, 2006 EXAMINED John a. Morris Galph E. anders

...\version 8 archive\0160478.dgn 1/19/2006 11:11:50 AM



SECTION COUNTY 347 25253-1420 COOK 17 13 FEO. ROAD DIST. NO. 1 HELINDIS FED. AID PROJECT CONTRACT #62956 ROAD CONSTRUCTION AHEAD TYPE III BARRICADES WITH TWO FLASHING AMBER LIGHTS ON EACH. TYPE I OR TYPE II BARRICADES WITH ONE FLASHING AMBER LIGHT ON EACH, OR TYPE III BARRICADES WITH TWO FLASHING 380 (15) 60 m± (200'±) AMBER LIGHTS ON EACH. DRIVEWAY WORK AREA- I 60 m± (200°±) (40 STREET; COLLECTOR LIMIT>60 km/h (150 LOCAL W20-1(0) ROAD SPEED CONSTRUCTION CABHA M6~1(0)~2115

TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS

NOTES:

- A. FOR NO LANE RESTRICTION ON THE SIDE ROAD OR DRIVEWAYS
- 1. SIDE ROAD WITH A SPEED LIMIT OF 60 km/h (40 MPH) OR LESS AS SHOWN ON THE ORAWING AND AS DIRECTED BY THE ENGINEER:
- OF THE MAIN ROUTE.
- b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
- 2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 60 km/h (40 MPH) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
- o) ONE ROAD CONSTRUCTION AHEAD SIGN 1.2 m \times 1.2 m (48 \times 48) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 150 m (500°) IN ADVANCE OF THE MAIN ROUTE.
- b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
- 3. WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (MG-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (MG-4).

- B. FOR A LANE CLOSURE ON A SIDE ROAD OR DRIVEWAY:
- USE APPLICABLE PORTIONS OF THE TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES (STD. 701501, STD. 70160S OR THE APPROPRIATE STANDARD). THE SPACING OF SIGNS AND BARRICADES SHALL BE ADJUSTED FOR FIELD CONDITIONS AS DIRECTED BY THE ENGINEER. THE DIRECTIONAL ARROW SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE SIDE ROAD LANE CLOSURE.
- C. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAY UNLESS OTHERWISE NOTED.
- D. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCIDENTAL TO THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

REVISIO:	NS I	
NAME	DATE	
LHA	6/89	TR
T, RAMMACHER	09/08/94	11/
J. OBERLE	10/18/95	
A. HOUSEH	03/06/96	_
A. HOUSEH	10/15/96	S
T. RAMMACHER	01/06/00	
		EC.A.
		5CAL
	T	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL AND PROTECTION
FOR
SIDE ROADS, INTERSECTIONS, AND

DRIVEWAYS

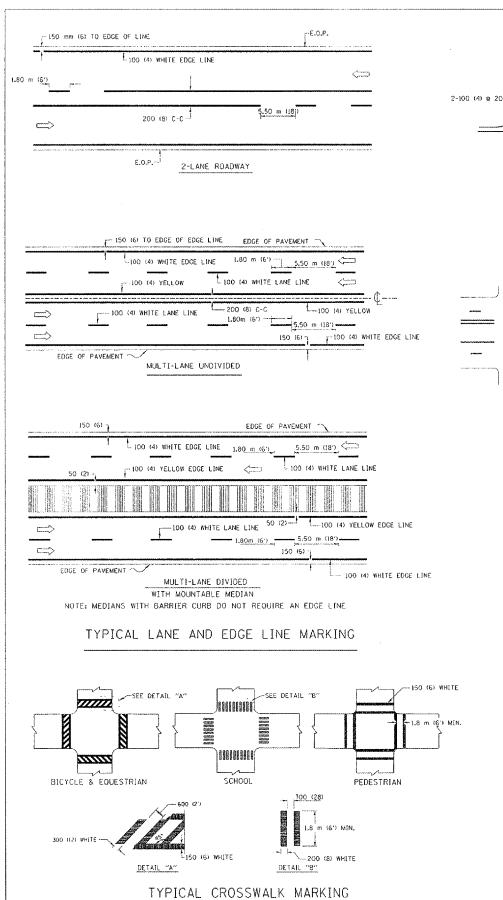
SCALE: VERT. HORIZ. DATE 10/18/2002

DRAWN BY CHECKED BY

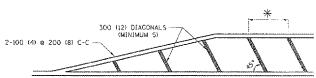
TC-10

Friday October 18.2002 @ 10.2025 AM c:\pnojecus\distatd\to!0.dg
 LV=35.63 4/15EP

REVISION DATE: 01/06/00



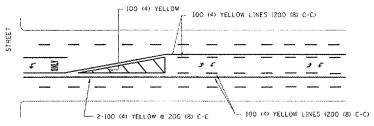
*DATE-TIME: *DGN-SPEC*



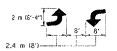
*FOR MEDIAN LENGTHS WHERE DIAGONAL SPACING CANNOT BE ATTAINED, USE 5 (FIVE) EQUALLY SPACED DIAGONAL LINES.

* DIAGONAL LINE SPACING: 6.1 m (20") C-C

PAINTED MEDIANS

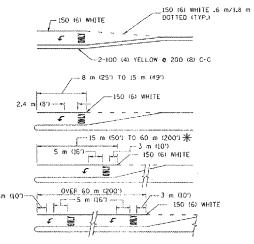


A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED. WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 60 m (200") TO 90 m (300") INTERVALS.



MEDIAN WITH TWO-WAY LEFT TURN LANE

TYPICAL PAINTED MEDIAN MARKING

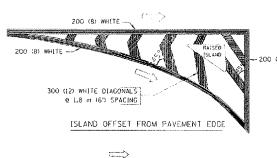


FULL SIZE LETTERS 2.4 m (8") AND ARROWS SHALL BE USED. \P AREA = 1.47 m² (15.8 SO. FT.) DHI AREA = 2.13 m² (22.9 SO. FT.)

* TURN LANES IN EXCESS OF 120 m (400") IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

TYPICAL LEFT (OR RIGHT) TURN LANE

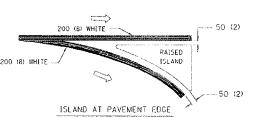
TYPICAL TURN LANE MARKING



F.A. SECTION COUNTY TOTAL SHEET NO. 347 2525.3-14-0 COK 17 14

STA. 10 S.L. FED. ROAD DIST. NO. ULINOIS FED. AID PROJECT

COMPACT #62956



TYPICAL ISLAND MARKING

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	100 (4)	SKIP-DASH	YELLOW	1.80 m (6') LINE WITH 5.50 m (18') SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 100 (4)	SOLID	YELLOW	200 (8) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	100 (4) 2 @ 100 (4)	SOLID SOLID	YELLOW YELLOW	200 (8) C-C
LANE LINES	100 (4) 125 (5) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	1.80 m (6") LINE WITH 5.50 m (18") SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	600 (2') LINE WITH 1.8 (6') SPACE
EDGE LINES	100 (4)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MOUNTABLE MEDIANS IN YELLOW: EDGE LINES ARE NOT USED NEXT TO BARRIER CURB
TURN LANE MARKINGS	150 (6) LINE; FULL SIZE LETTERS & SYMBOLS (Z.4 m (8'))	SOLID	WHITE.	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT FURN MARKING	2 @ 100 (4) EACH DIRECTION	SKIP-DASH AND SOLID	YELLOW	I.8 m (6') LINE WITH 5.50 m (18') SPACE FOR SKIP-DASH; 200 (8) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE
	2.4 m (8') LEFT ARROW	IN PAIRS	WHITE	SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A, DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 150 (6) 300 (12) @ 45° 200 (8) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 1.8 m (6°) APART 600 (2°) APART 700 (2°-4") APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	600 (24)	SOLID	WHITE	PLACE 1.2 m (47) IN ADVANCE OF AND PARALLEL TO CROSSWALE, IF PRESENT, OTHERWISE, PLACE AT DESIRED STOPPING POINT. PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 100 (4) WITH 300 (12) DIAGONALS @ 45°	SOLID	YELLOW: TWO WAY TRAFFIC WHITE: ONE WAY TRAFFIC	200 (8) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	200 (8) WITH 300 (12) DIAGONALS & 45°	50L10	WHITE	DIAGONALS: 6.1 m (20°) (LESS THAN 50 km/h (30 MPH))
RAILROAD CROSSING	600 (24) TRANSVERSE LINES; "RR" IS L8 m (6") LETTERS; 400 (16) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"*-0.33m2 (3.6 SO. FT.) EACH "X"=5.0 m2 (54.0 SO. FT.)

FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO STREET MARKING STANDARDS. PRINTED BY CITY OF CHICAGO. DEPARTMENT OF TRANSPORTATION, BUREAU OF TRAFFIC.

All dimensions are in millimeters (inches) 1 OF 2

ILLINOIS DEPARTMENT OF TRANSPORTATION

CITY OF CHICAGO
TYPICAL PAVEMENT

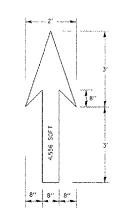
REVISIONS CITY OF CHICAL PAVEN
AMMACHER 12/07/00 MARKINGS

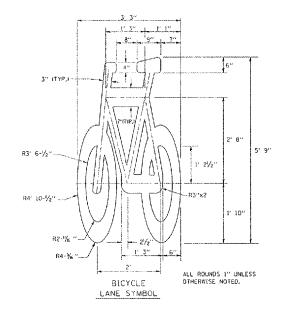
SCALE: NONE

NE DRAWN BY CADD /18/2002 CHECKED BY

TC-24

REVISION DATE:12/07/00

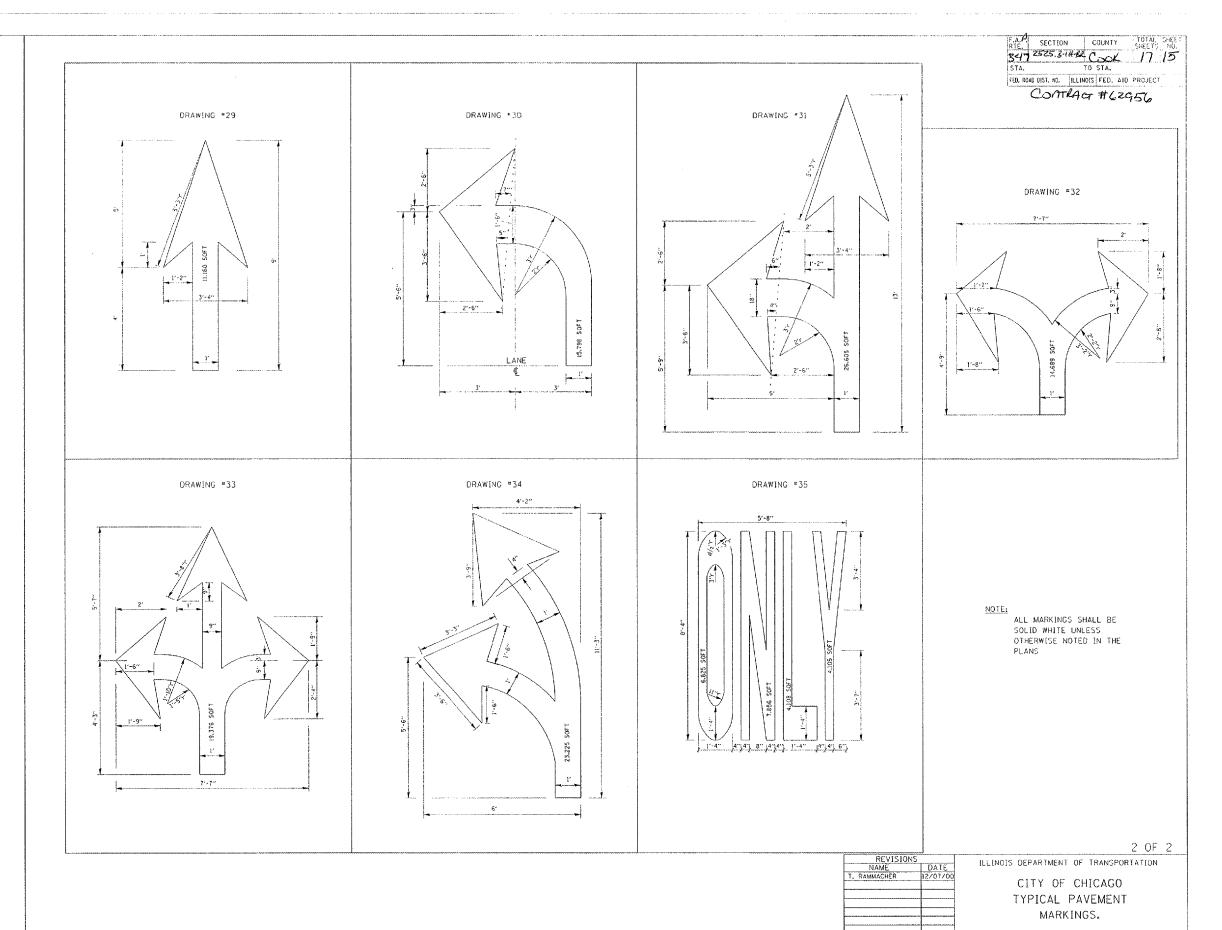




NOTE:
1.) FOR BIKE LANE SYMBOLS ONLY,
USE PRE-FORMED THERMOPLASTIC
WITH A MINIMUM THICKNESS OF 90 MILS,
MINIMUM SKIO RESISTANCE VALUE OF 60 BPN,
& A MINIMUM INDEX OF REFRACTION OF 1.50.

2.) THE RESIDENT ENGINEER SHALL CONTACT MR. BEN GOMBERG AT 312-744-8093 AT LEAST ONE CALENDAR WEEK PRIOR TO INSTALLING BIKE LANE SYMBOLS.

TYPICAL BIKE LANE SYMBOLS
DRAWING #28



03/09/2004 Walistativo24.dgn VETC24 CEYSA

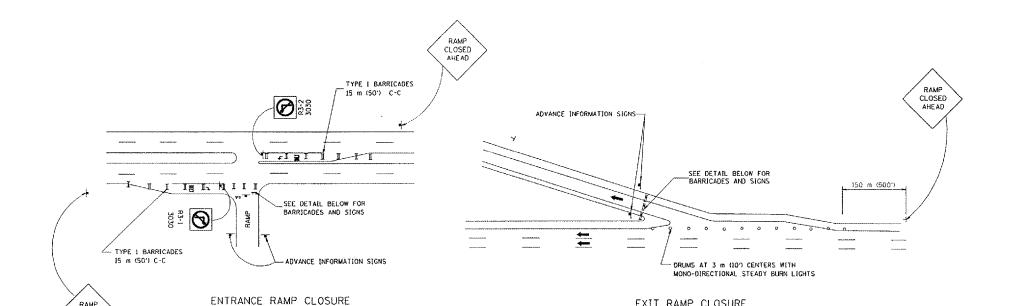
REVISION DATE: 02/25/04

DRAWN BY CHECKED BY TC-24

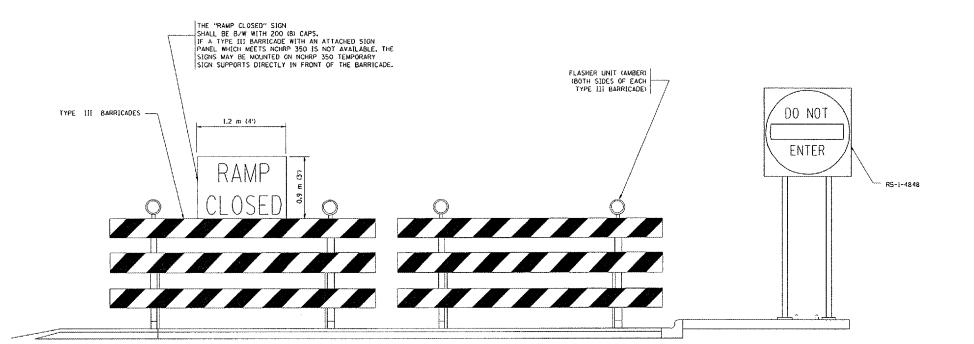
SCALE: NONE

DATE 03/09/2004





EXIT RAMP CLOSURE



DETAIL FOR REQUIRED BARRICADES & SIGNS

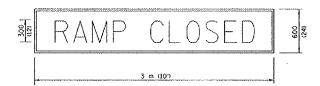
RAMP CLOSED

AHEAD

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

- I. 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

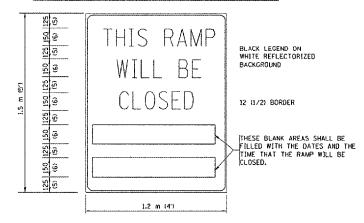


BLACK LEGEND ON ORANGE REFLECTORIZED BACKGROUND

25 (I) BORDER

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

RAMP CLOSURE ADVANCE INFORMATION SIGN



THESE SIGNS ARE REQUIRED ON BOTH SIDES OF THE RAMP, 4 MINIMUM OF $1\ \mbox{WEEK}$ IN ADVANCE OF THE CLOSURE.

CENERAL NOTES:

- 1. CONES MAY BE SHRSTITHTED FOR DRIMS OR TYPE II BARRICADES DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 700 (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.
- 4, 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 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.

FREEWAY ENTRANCE AND EXIT RAMP

2-83 DWS 9/94 DWS DWS/JAF 12/02 4/03 CLOSURE DETAILS

ILLINOIS DEPARTMENT OF TRANSPORTATION

SCALE: NONE

DRAWN BY CHECKED BY

REVISION DATE: 04/03/03

