STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

DIVISION OF HIGHWAYS

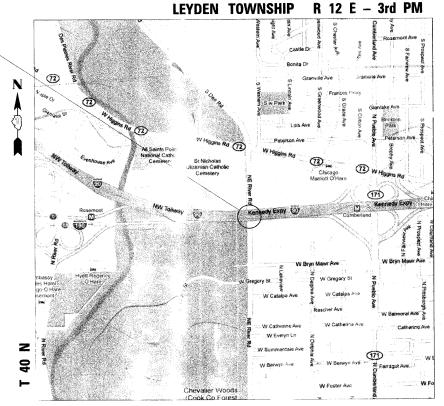
PROPOSED HIGHWAY PLANS

FAU 2729 / EAST RIVER ROAD AT I-90 KENNEDY EXPWY AND CTA (2 M!. W. OF IL 43) BRIDGE DECK AND JOINT REPAIRS PROJECT NUMBER: ACM-2729(002) **COOK COUNTY**

SECTION 1617–I–1

C-91-259-10

IMPROVEMENT LOCATION EAST RIVER ROAD AT I-90 KENNFDY EXPRESSWAY STRUCTURE NO: 016-2124



LOCATION MAP

GROSS AND NET LET GTH OF IMPROVEMENT = 266.08 FT. = 0.504 MILE

-056236

LINS NEERS

9.055IONAL DESIGN FIRM

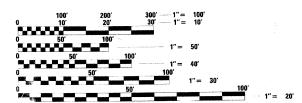
ILLINOIS CONTRACT NO. 60J69

D-91-259-10



STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION DIVISION OF HIS WAYS SUBMITTED FEBRUARY 1, 20 10 DEPUTY DIRECTOR OF HIGHWAYS, REC. ONE ENGINEER March 19, 20 10 Scott E. Stitl P.E. KO acting ENGINEER OF DESIGN AN March 19, 20 10 Christine M. Reed Kl

> NTED BY THE AUTHOR TY F THE STATE OF 11.1 HOIS



FOR INDEX OF SHEETS, SEE SHEET NO. 2

DESIGN DESIGNATION

COLLECTOR (URBAN) ADT 20,500 (2006)

SPEED LIMIT 35 MPH

IMPROVEMENT LOCATED IN THE CITY OF CHICAGO

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

JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION 1-800-892-0123

JECT MANAGER: MR \$ 4C KWARTENG (847) 705-4230 OJECT ENGINEER: MR --- BRICE (847) 705-4552

CONTRACT NO. 60J69

INDEX OF SHEETS

- Index of Sheets, State Standards, General Notes and Summary of Quantities
- Maintenance of Traffic
- 5-10 Structure Plans S1-S6
- 11-13 District One Standards
- 13a Entrance and Exit Ramp Closure Details (TC-8)
- 13b Single Lane weave and Multi-Lane Weave (TC-9)
- 13c Partial Ramp and Shoulder Closure Details (TC-17)

Highway Standards

INDEX OF HIGHWAY STANDARDS

Standard No. Description 000001-05

Standard Symbols. Abbreviations And Patterns

001001-02 Areas Of Reinforcement Rebars 420001-07 Pavement Joints

Traffic Control Devices 701901-01 704001-06 Temporary Concrete Barrier

Typical Pavement Markings
Typical Applications Raised Reflective Pavement Markers 780001-02 781001-03

701400-04 Approach to Lane Closure, Freeway/Expressway

701401-05 Lane Closure, Freeway/Expressway 701446-01 Two Lane Closure, Freeway/Expressway

Lane Closure, Multi-Lane, At Exit or Entrance Ramp, For Speeds ≥ 45 mph 701411 -00

701601 **-06** Urban Lane Closure, Multi-Lane, IW or 2W With Non-Traversable Medi

GENERAL NOTES

- These plans have been prepared from notes received from IDOT Field Maintenance
- 2. 10 ft (3 m) transitions shall be used to match proposed items of work to existing items in the field, unless otherwise shown. The transitions shall be paid for at the contract unit price for the proposed item of work specified.
- 3. Where artificial lighting is utilized in night operations, the Contractor shall exercise the utmost precautions in preventing adverse visibility to the motoring public and adjoining residential areas.
- 4. The engineer shall be the sole judge concerning curing time for the various hot-mix
- 5. For stabilization, all Type III barricades shall require a minimum of four (4) sandbaas per barricade.
- 6. The Resident Engineer must contact the Traffic Control Supervisor at (847)705-4470 at least 72 hours prior to installation of the temporary control devices.
- 7. The Resident Engineer shall contact the CDOT Area Traffic Field Engineer at at least two (2) weeks prior to the placement of permanent pavement markings.
- 8. All pavement markings and raised reflectors affected by the bridge repairs shall be replaced. Nominal quantities have been included in the contract for this work.
- 9. The Contractor will not be allowed to set up a yard or field office on State property without written permission from the Department.
- 10. Do not scale these plans for construction purposes.
- 11. Plan dimensions and details relative to existing plans are subject to routine variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work. However, the Contractor will be paid for the quantity actually furnished based upon the unit price bid for the work.

- shall be considered incidental to the contract.
- 13. All raised reflective pavement markers (bridge) shall be low profile.
- 14. Special attention is called to Article 107.12 regarding railroad flaggers. The name and telephone number of the railroad engineer is Mr. David Heard (312) 681-3862.
- 15. Before beginning any work, the Contractor shall retain and record for future reference, all existing pavement marking lines, symbols and letters (and raised reflective markers) in order that these locations can be re-established for striping. Exact locations of all pavement markings and raised reflective pavement markers shall be as directed by the Engineer.
- 16. The contractor shall obtain approval for all eastbound I-90

12.	During construction operations, loose material deposits that obstruct the flow of
	water in draining the area shall be removed before the end of each work day. At
	the conclusion of construction operations, all drainage structures (new and existing)
	shall be free from all dirt and debris. This work will not be paid for separately but

- lane closures from the Illinois Tollway. The cost of this work shall be considered incidental to Traffic Control and Protection (Expressways).

URBAN CONSTR. TYPE CODE

ſ	CODE	ITEM DESCRIPTION	UNIT	QUANTITY	CONSTR. TYPE CODE STRUCTURE X281-2A FEDERAL 80% STATE 20%
Γ	50157301	Protective Shield (Permanent)	Sq.Yd.	1,238	1,238
	67000400	Engineer's Field Office, Type A	Cal.Mo.	2	2
	67100100	Mobilization	L Sum	1	1
	70101800	Traffic Control and Protection, (Special)	L Sum	1	1
	70301000	Work Zone Pavement Marking Removal	Sq.Ft.	860	860
	70400100	Temporary Concrete Barrier	Foot	860	860
T	70400200	Relocate Temporary Concrete Barrier	Foot	860	860
	78000200	Thermoplastic Pavement Marking - Line 4"	Foot	270	270
	78008210	Polyurea Pavement Marking Type I - Line 4"	Foot	670	670
r	78100100	Raised Reflective Pavement Marker	Each	10	10
-	78100105	Raised Reflective Pavement Marker (Bridge)	Each	10	10
T	78100200	Temporary Raised Reflective Pavement Marker	Each	10	10
t	78300100	Pavement Marking Removal	Sq.Ft.	310	310
-	78300200	Raised Reflective Pavement Marker Removal	Each	10	10
t	X0320887	Polymer Concrete	Cu.Ft.	27.8	27.8
t	X0321743	Silicone Joint Sealer, 1"	Foot	254.4	254.4
t	X0321744	Silicone Joint Sealer, 2"	Foot	63.6	63.6
1	X0322256	Temporary Information Signing	Sq.Ft.	50	50
t	X0322933	Silicone Joint Sealer, 2.5"	Foot	63.6	63.6
t	X0325775	Wet Reflective Temporary Tape, Type III, 4 Inch	Foot	2,600	2,600
-	Z0016002	Deck Slab Repair (Full Depth, Type II)	Sq.Yd.	16.0	16.0
H	Z0016200	Deck Slab Repair (Partial)	Sq.Yd.	117.3	117.3
-	Z0030250	Impact Attenuators, Temporary (Non-Redirective), Test Level 3	Each	2	2
-	Z0030350	Impact Attenuators, Relocate (Non-Redirective), Test Level 3	Each	2	2
-	Z0048665	Rallroad Protective Liability Insurance	L. Sum	1	1
ŀ	Z0076600	Trainees	Hour	500	500
-	X7011015	Traffic Control and Protection (Expressways)	L Sum	1	1
H	85000300	Maintenance of Existing Traffic Signal Installation	L: Sum	1	1
ŀ	X0325737	Temporary Traffic Signal Timing	Each	2	2
		Tonpoloty Name Signal Yilling			<i>L</i>
-					The second secon
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-					
1			1	1	1

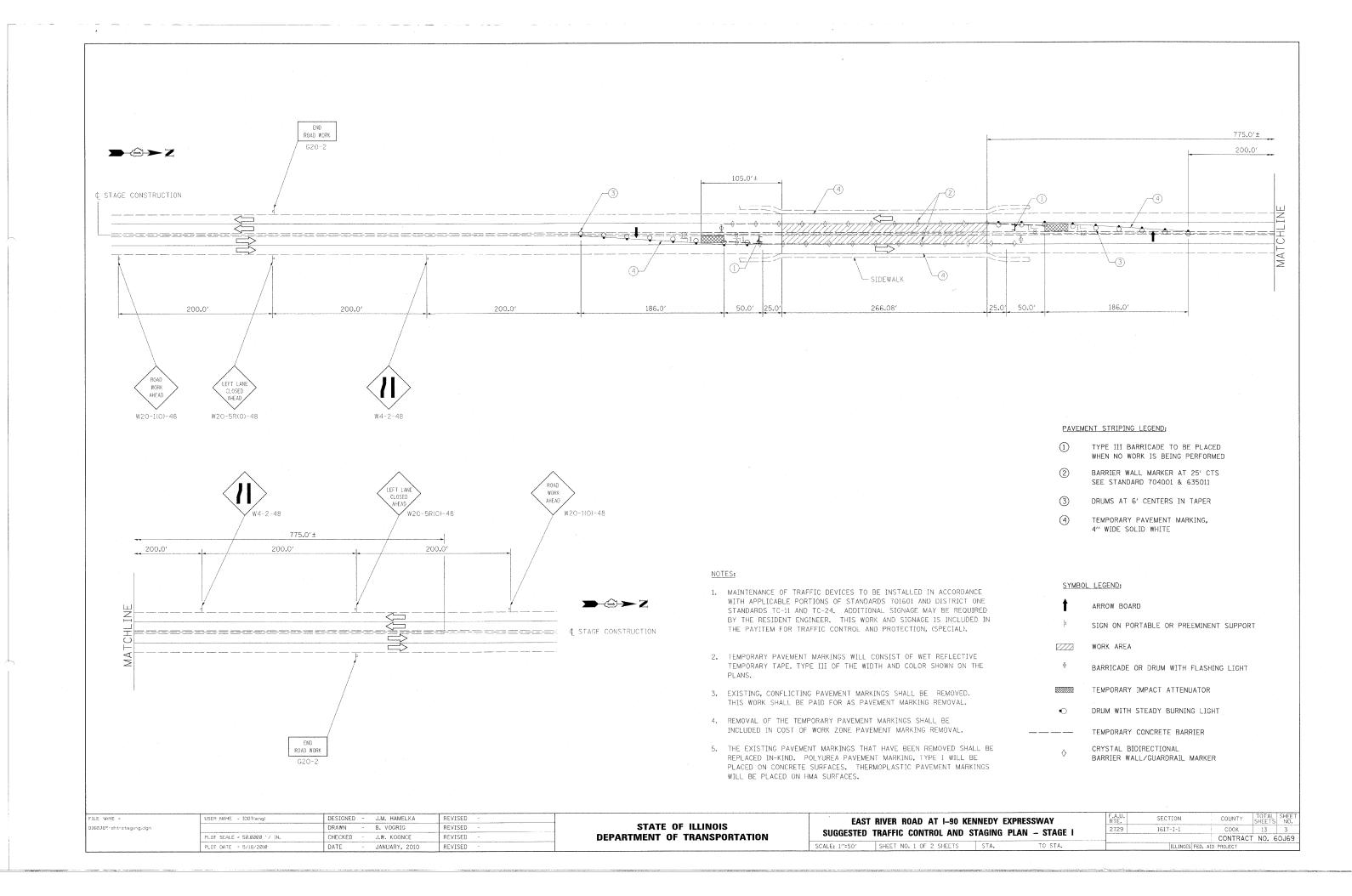
* Denotes Specialty Item

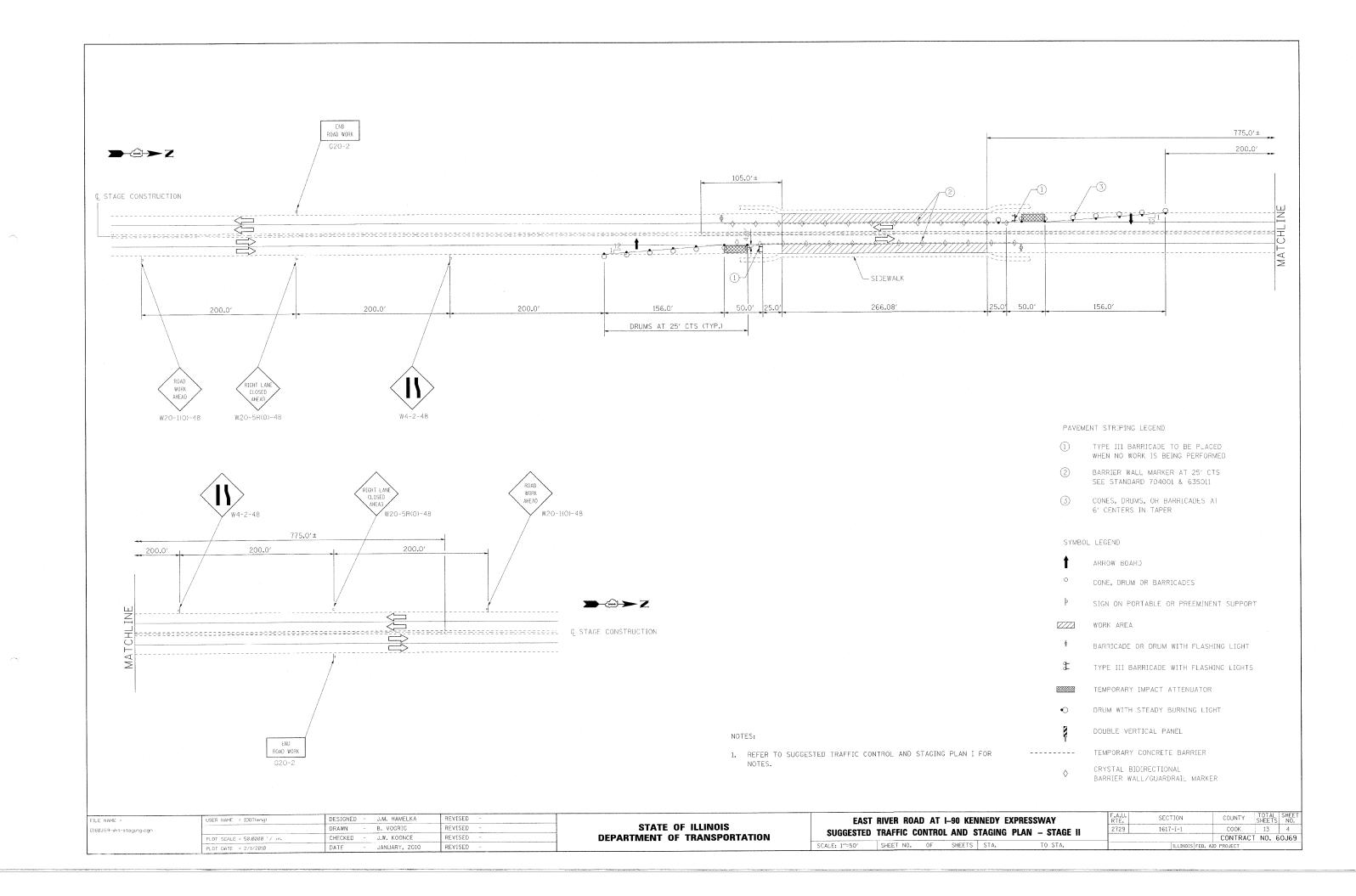
YOBO

ł							
	FILE NAME =	USER NAME = IDOT(eng)	DESIGNED	~	J.W. KOONCE,	REVISED	-
	D160J69-sht-gennote-NO_REV_CLOUD.dgn		DRAWN	-	D. REDZIC	REVISED	-
		PLOT SCALE = 1.0000 '/ IN.	CHECKED	-	J.W. KOONCE	REVISED	-
	4	PLOT DATE = 5/18/2010	DATE	~	JANUARY, 2010	REVISED	AV.

STAT	E OF	ILLINOIS
DEPARTMENT	OF	TRANSPORTATION

INDEX OF SHEETS	STATE STANDARDS, GENERAL N	IOTES AND	SUMMARY OF QUANTITIES	F.A.U. RTE.	SECTION	COUNTY	TOTAL	SHEET NO.
INDEX OF OHEETO,	FAU 2729/EAST RIVER RO			2729	1617-I-1	COOK	13	2
	FAU 2/29EA31 NIVEN NO	AD OVER I	-30			CONTRACT	NO. 6	30J69
SCALE:	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.		ILLINOIS FED. A	ID PROJECT		



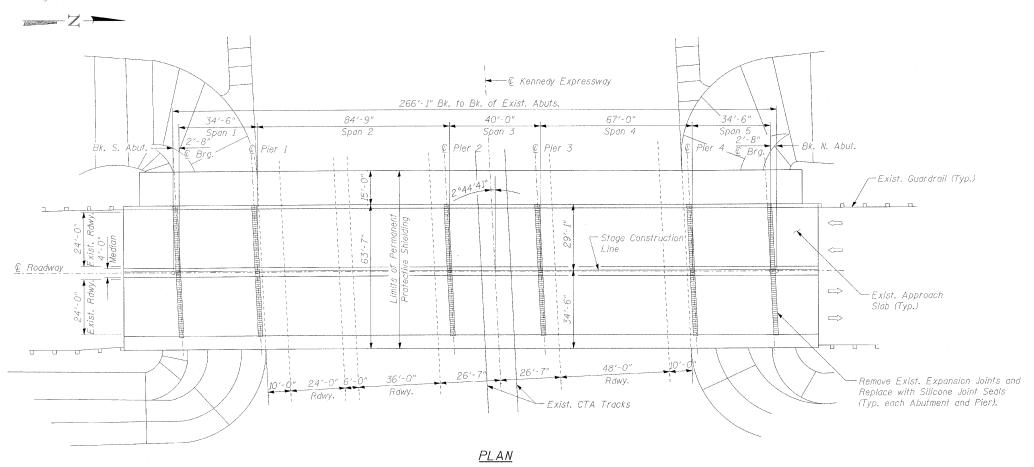


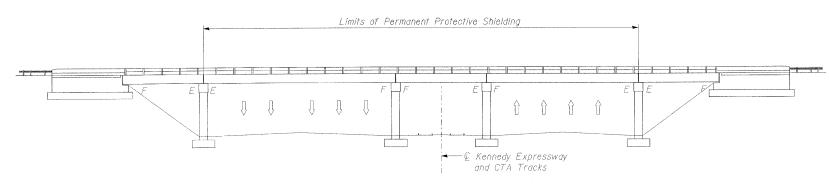
Existing Structure:

The existing structure is a five span prestressed concrete beam bridge with a 7.5 inch reinforced concrete deck with no overlay. The original structure was built in 1958 as Section 267-1617-15D. In 1981 the structure was widened and deck repairs were performed.

Staged construction shall be utilized to maintain traffic during construction.

No salvage.





ELEVATION

DESIGNED	JWK		January,	2010
CHECKED	JMH	EXAMINED		
DRAWN	DR	PASSED	ENGINEER OF STE	RUCTURAL SERVICES
CHECKED	JWK		ENGINEER OF BRIDGE	S AND STRUCTURES



DESIGN SPECIFICATIONS

AASHTO Standard Specifications for Highway Bridges, 17th Edition

DESIGN STRESSES

 $f'_{o} = 3,500 \ psi$ $f_{y} = 60,000 \ psi$

SCOPE OF WORK

- 1. Repair bridge deck.
- 2. Reconstruct deck joints at each abutment and pier with silicone seals and polymer concrete.
- 3. Permanent protective shielding.

NOTES

- Permanent Protective Shield shall be installed according to the details contained herein and according to the Special Provisions. For limits of Protective Shield see General Plan and Elevation sheet.
- Contractor is advised that a portion of the Permanent Protective Shielding is to be installed over tracks operated by the Chicago Transit Authority (CTA).
- 3. The Contractor shall be responsible for coordinating the installation of the Permanent Protective Shield with the CTA.

 All cost for coordination shall be included in the pay item for "Permanent Protective Shield."



GENERAL PLAN AND ELEVATION
F.A.U. ROUTE 2729 SEC. 1617-I-1

EAST RIVER ROAD AT

I-90 KENNEDY EXPRESSWAY

COOK COUNTY

STATION 73+75.00

STRUCTURE NO. 016-2124

SHEET NO. S1	F.A.U. RTE.	SECTION			COUNTY	TOTAL	SHEET NO.
OF	2729	1617	-I-1		COOK	13	5
S6 SHEETS					CONTRACT	NO. 60)J69
			ILLINOIS		D PROJECT		

INDEX OF SHEETS

- S1. General Plan and Elevation
- S2. General Notes, Bill of Materials and Index of Sheets
- S3. Stage Construction Details
- S4. Bridge Deck and Approach Slab Repairs
- S5. Silicone Joint Sealer with Polymer Concrete Nosing
- S6. Permanent Protective Shielding

GENERAL NOTES:

- Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work. However, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.
- 2. Stage construction shall be utilized to maintain traffic during construction.
- 3. The Contractor shall exercise care during removal of existing joints to ensure that the slab, beams, and diaphragms' integrity will not be detrimentally impacted. The Contractor shall repair any damage(s) to the slab, beams, diaphragms caused by his operation as directed by the Engineer at no additional cost to the Department.
- 4. Cost for removal and disposal of Existing Expansion Joints is included in the Polymer Concrete.
- 5. The removal and reattachment of guardrail, hand rail, steel railings, traffic barrier terminal, and etcetera required for repair work (e.g. transverse joint replacement or structural repair of concrete) shall be included in the contract unit price of the work item being performed.

TOTAL BILL OF MATERIAL

ITEM DESCRIPTION	UNIT	QUANTITY
Protective Shield (Permanent)	Sg. Yd.	1,238
Polymer Concrete	Cu. Ft.	27.8
Silicone Joint Sealer, 1"	Foot	254.4
Silicone Joint Sealer, 2"	Foot	63.6
Silicone Joint Sealer, 2.5"	Foot	63.6
Deck Slab Repair (Full Depth, Type II)	Sq. Yd.	16.0
Deck Slab Repair (Partial)	Sq. Yd.	117.3

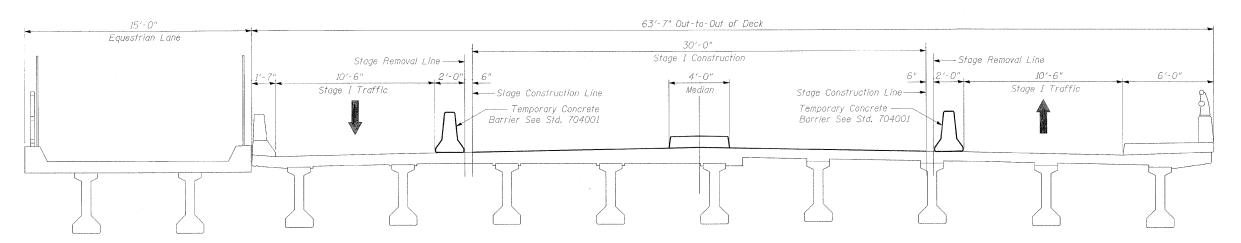
GENERAL NOTES, BILL OF MATERIALS

AND INDEX OF SHEETS

STRUCTURE NO. 016-2124

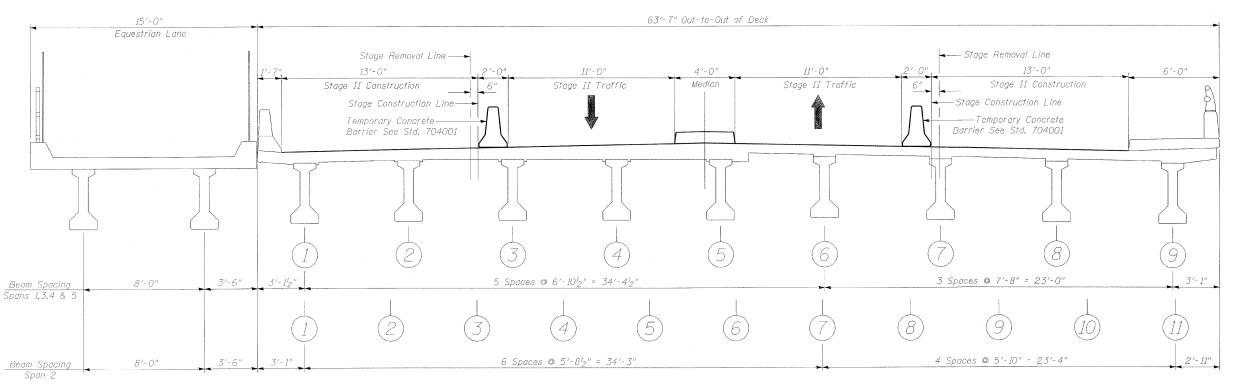
SHEET NO. S2	F.A.U. RTE.	SECTION		COUNTY	TOTAL SHEETS	SHEET NO.
OF	2729	1617-I-1		COOK	13	6
S6 SHEETS				CONTRACT	NO. 60	J69
		ILLINOIS	FED. A	ID PROJECT		

DESIGNED	JWK c	2010)
CHECKED	JMH	EXAMINED	
		ENGINEER OF STRUCTURAL SER	VICE
DRAWN	DR	PASSED	
		ENGINEER OF BRIDGES AND STRUC	TURE
CHECKED	JWK		



STAGE I CROSS SECTION

(Looking North)



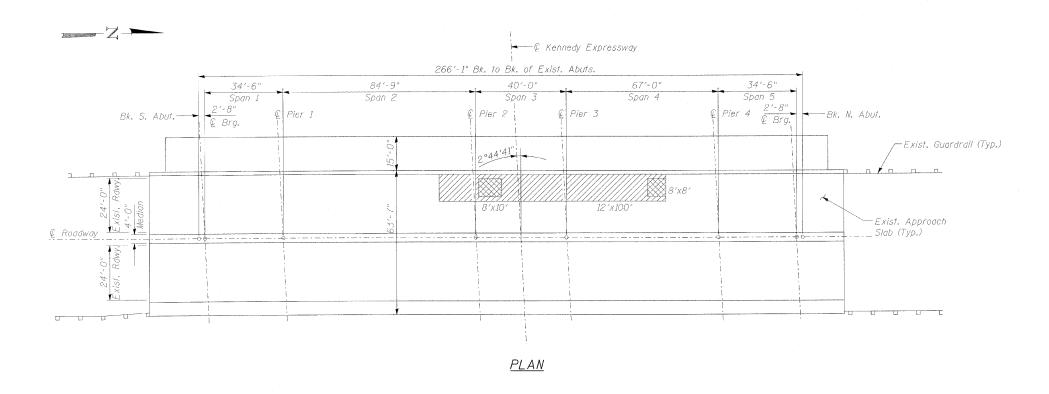
STAGE II CROSS SECTION

(Looking North)

DESIGNED JWK	January, 2010
CHECKED JMH	EXAMINED
DRAWN DR	ENGINEER OF STRUCTURAL SERVICES PASSED
CHECKED JWK	ENGINEER OF BRIDGES AND STRUCTURES

STAGE CONSTRUCTION DETAILS STRUCTURE NO. 016-2124

SHEET NO. S3	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
OF	2729	1617-I-1	COOK	13	7
S6 SHEETS			CONTRACT	NO. 60	J69
		ILLINOIS FED. A	ID PROJECT		



BILL OF MATERIAL

SYMBOL	ITEM	UNIT	QUANTITY	
	Deck Slab Repair (Partial)	Sq. Yd.	117.3	
	Deck Slab Repair (Full Depth - Type II)	Sq. Yd.	16.0	

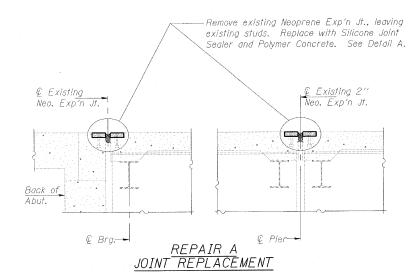
NOTES:

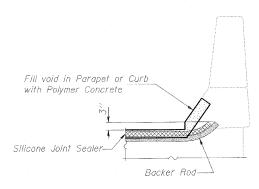
- 1. Deck slab repair areas are estimated based on visual inspection completed in October 2009. Actual repair areas and locations shall be determined by the Engineer and shown on As-Built plans.
- 2. Deck slab repairs to be done after permanent protective shield has been installed.

BRIDGE DECK AND
APPROACH SLAB REPAIRS
STRUCTURE NO. 016-2124

SHEET NO. S4	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
OF	2729	1617-I-1	СООК	13	8	
S6 SHEETS			CONTRACT	NO. 60)J69	
	ILLINOIS FED. AID PROJECT					

DESIGNED	JWK		January	,	2010
CHECKED	JMH	EXAMINED			
DRAWN	DR	 PASSED	ENGINEER	OF STRUCT	URAL SERVICES
		1	ENGINEER OF	BRIDGES A	NO STRUCTURES
CHECKED	JWK				

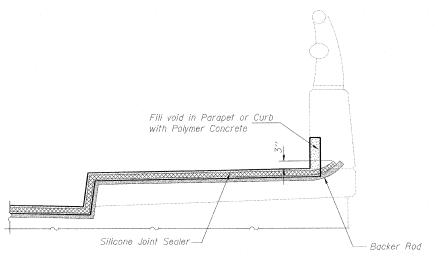




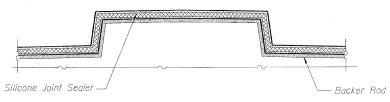
TYPICAL END OF SEAL TREATMENT

AT WEST PARAPET

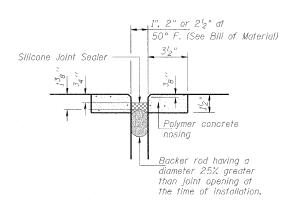
(Looking South)



TYPICAL END OF SEAL TREATMENT
AT EAST PARAPET
(Looking North)



TYPICAL SEAL TREATMENT
AT MEDIAN
(Looking North)



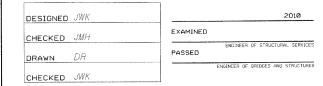
DETAIL A SILICONE JOINT SEALER DETAIL

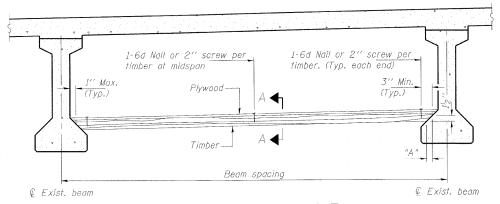
BILL OF MATERIAL

ITEM DESCRIPTION	UNIT	QUANTITY
Silicone Joint Sealer, 1" (At S. Abut., Pier 2, Pier 3 and N. Abut.)	Foot	254.4
Silicone Joint Sealer, 2" (At Pier 4)	Foot	63.6
Silicone Joint Sealer, 2 ¹ ₂ " (At Pier 1)	Foot	63.6
Polymer Concrete	Cu. Ft.	27.8

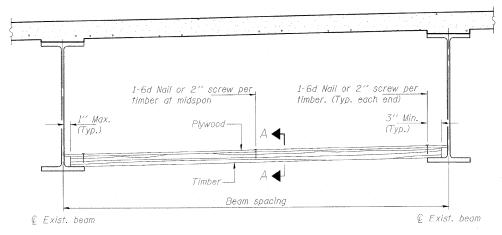
SILICONE JOINT SEALER WITH POLYMER CONCRETE NOSING STRUCTURE NO. 016-2124

SHEET NO. S5	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
OF	2729	1617-I-1	СООК	13	9
S6 SHEETS			CONTRACT	NO. 60	J69
		ILLINOIS FED. AI	ID PROJECT		

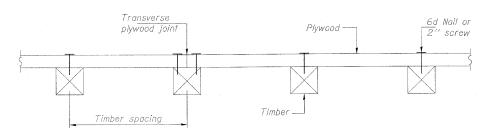




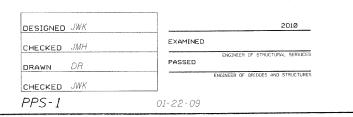
PPC I-BEAMS AND BULB-T's



STEEL BEAMS



SECTION A-A



TIMBER SPACING

	Timber Sizes (in.)								
Beam Spacing (ft.)	4'' x 4'' with min. Fb=775 psi Fv=135 psi	4" x 6" with min. Fb=775 psi Fv=135 psi	6" x 6" with min. Fb=575 psi Fv=125 psi						
	Maximu	m Timber Spac	ing (in.)						
4.5	16	16	16						
4.75	16	16	16						
_ <u>5.0</u>	<i>1</i> 6	16	16						
5.25	16	16	16						
_5.5	16	16	16						
<u>5,75</u>	16	16	16						
_6.0	16	16	16						
6.25	12	16	16						
_6.5	12	16	16 -						
6.75	12	16	16						
_7.0	8	16	16						
7.25	8	16	16						
_ 7.5	8	16	16						
7,75	8	16	16						
_8.0	8	12	16						
<u>8,25</u>	8	12	16						
_8,5	6	12	12						
<u>8,75</u>	6	12	12						
_9,0	6	8	12						

PPC I-BEAMS AND BULB-T's

BEAM	"A " .
36'' I-Beam	1/2"
42″ I-Beam	1/2"
48′′ I-Beam	1/2"
54′′ I-Beam	158"
63'' Bulb-T	33 ₈ "
72'' Bulb-T	338"

Notes:

See special provision for Permanent Protective Shield System.

Timber sizes shown are nominal sizes. Rough sawn timber of the dimensions shown will also be considered acceptable.

The minimum Fb and Fv values shown are the tabulated design values given in the National Design Specification for Wood Construction for No. 2 Spruce-Pine-Fir without adjustment factors applied. Better grades or other species with equal or higher allowable stresses will also be considered acceptable.

The timber spacings shown have been determined using allowable stresses with all adjustment factors necessary for the anticipated service conditions.

All timber shall be treated. Plywood shall be ⁵g'' rated Exterior type plywood by APA.

Plywood shall be placed such that the face grain is perpendicular to the timber supports. When less than a full sheet (4' width) of plywood is used, the width of the strip used shall not be less than 2'.

Transverse plywood joints shall be supported by timbers.

When $4^{\prime\prime}$ x $6^{\prime\prime}$ timbers are used, they shall be placed such that the wide face is horizontal and the narrow face is vertical.

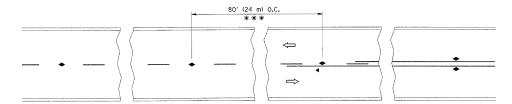
Design load = 200 psf.

BILL OF MATERIAL

	Item	Unit	Total		
Protective	Shield	(Permanent)	Sq. Yd.	1238	

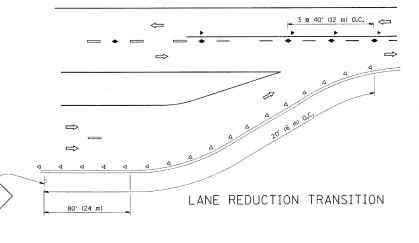
PERMANENT PROTECTIVE SHIELD STRUCTURE NO. 016-2124

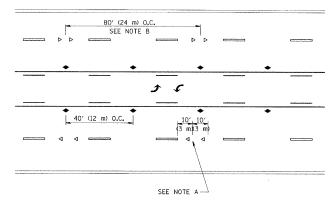
SHEET NO. S6	F.A.U. RTE.	SECTION		COUNTY	TOTAL SHEETS	SHEET NO.
OF	2729	1617-I-1		COOK	13	10
S6 SHEETS				CONTRACT	NO. 60	J69
	ILLINOIS FED. A			D PROJECT		



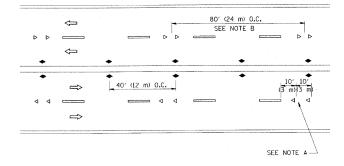
*** REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

TWO-LANE/TWO-WAY

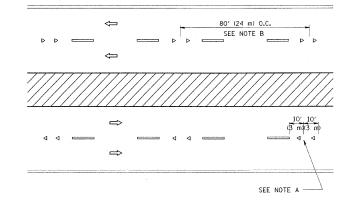




TWO-WAY LEFT TURN



MULTI-LANE/UNDIVIDED



MULTI-LANE/DIVIDED

GENERAL NOTES

- 1. MARKERS USED WITH DASHED LINES SHALL BE CENTERED IN THE GAP BETWEEN SEGMENTS.
- 2. MARKERS USED ADJACENT TO SOLID LINES SHALL BE OFFSET 2 TO 3 (50 TO 75) TOWARD TRAFFIC AS SHOWN.
- 3. MARKERS THROUGH TANGENTS LESS THAN 500' (150 m) IN LENGTH BETWEEN CURVES SHALL BE INSTALLED AT THE LESSER OF THE TWO CURVE SPACINGS.

LANE MARKER NOTES

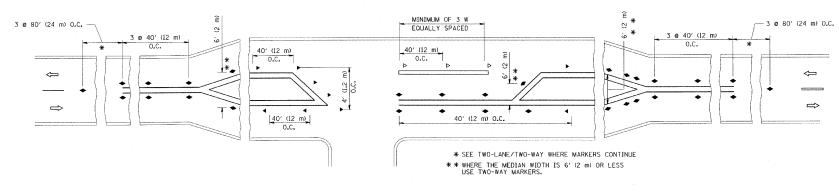
- A. USE DOUBLE LANE LINE MARKERS SPACED AS SHOWN.
- B. REDUCE TO 40' (12 m) O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 10 M.P.H (20 km/h) LOWER THAN POSTED SPEEDS.

SYMBOLS

- ----- YELLOW STRIPE
- WHITE STRIPE
- ONE-WAY AMBER MARKER
- ONE-WAY CRYSTAL MARKER (W/O)
- ◆ TWO-WAY AMBER MARKER

DESIGN NOTES

- 1. DOUBLE LANE LINE MARKERS SHALL BE USED UNLESS SPECIFIED OTHERWISE.
- 2. EXCEPT AS SHOWN ON THE LANE REDUCTION TRANSITION AND FREEWAY EXIT RAMP DETAIL, MARKERS ARE NOT TO BE SPECIFIED ON RIGHT EDGE LINES.
- 3. THE EXACT MARKER LIMITS, SPACING, AND COLOR SHOULD BE INCLUDED IN THE PLANS.
- MARKERS SHOULD NOT BE USED ALONGSIDE CURBS EXCEPT FOR EXTREMELY SHORT SECTIONS OF CURBS WHERE NOT MORE THAN TWO MARKERS WOULD BE INVOLVED.

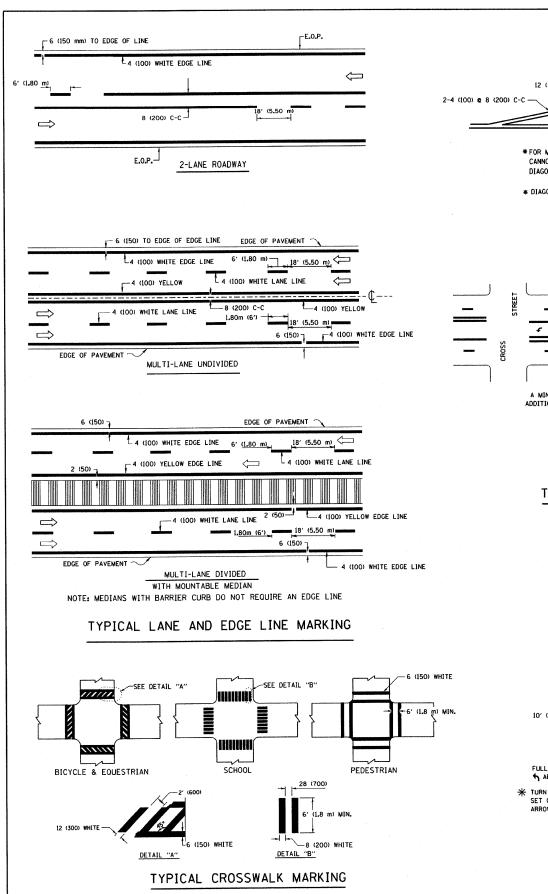


LEFT TURN

All dimensions are in inches (millimeters) unless otherwise shown.

COUNTY SHEETS NO.

COOK 13 11 DESIGNED -T. RAMMACHER 09-19-94 ILE NAME = USER NAME = drivakosgr SECTION TYPICAL APPLICATIONS REVISED -T. RAMMACHER 03-12-99 STATE OF ILLINOIS DRAWN 1617-1-1 RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT) 2729 **DEPARTMENT OF TRANSPORTATION** REVISED -T. RAMMACHER 01-06-00 PLOT SCALE = 50.000 '/ IN. CHECKED CONTRACT NO. 60J69 TC-11 CONTRA SHEET NO. 1 OF 1 SHEETS STA. REVISED - C. JUCIUS 09-09-0

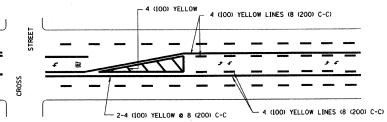




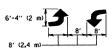
*FOR MEDIAN LENGTHS WHERE DIAGONAL SPACING CANNOT BE ATTAINED, USE 5 (FIVE) EQUALLY SPACED DIAGONAL LINES.

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

PAINTED MEDIANS

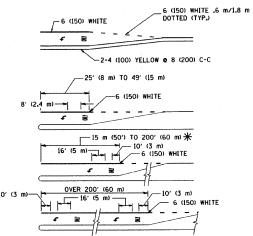


A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.



MEDIAN WITH TWO-WAY LEFT TURN LANE

TYPICAL PAINTED MEDIAN MARKING

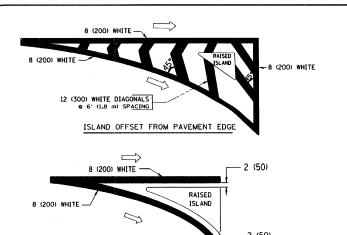


FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED. \P AREA = 15.8 SO. FT. (1.47 m²) \P AREA = 22.9 SO. FT. (2.13 m²)

* TURN LANES IN EXCESS OF 400' (120 m) 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



TYPICAL ISLAND MARKING

ISLAND AT PAVEMENT EDGE

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
ENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	6' (1.80 m) LINE WITH 18' (5.50 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	8 (200) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 e 4 (100)	SOLID SOLID	YELLOW YELLOW	8 (200) C-C
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	6' (1.80 m) LINE WITH 18' (5.50 m) SPACE
OOTTED LINES EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MOUNTABLE MEDIANS IN YELLOW: EDGE LINES ARE NOT USED NEXT TO BARRIER CURB
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2.4 m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 & 4 (100) EACH DIRECTION	SKIP-DASH AND SOLID	YELLOW	6' (1,8 m) LINE WITH 18' (5,50 m) SPACE FOR SKIP-DASH; 8 (200) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE
	8' (2.4 m) 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 @ 6 (150) 12 (300) @ 45° 8 (200) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (I.8 m) APART 2' (600) APART 2'-4" (700) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1,2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT. PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45°	SOLID	YELLOW: TWO WAY TRAFFIC WHITE: ONE WAY TRAFFIC	8 (200) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 20' (6.1 m) (LESS THAN 30 MPH (50 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES; "RR" IS 6' (1.8 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SO. FT. (0.33m ²) EACH "%"-54.0 SQ. FT. (5.0 m ²)

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

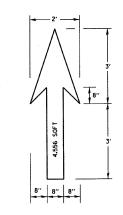
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

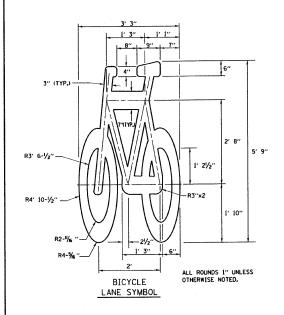
FILE NAME = USER NAME = gaglianobt DESIGNED - REVISED -T. RAMMACHER 12-07-00
Wi\diststd\22x34\to24.dgn

PLOT SCALE = 50.000 '/ IN. CHECKED - REVISED PLOT DATE = 1/4/2008 DATE - REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

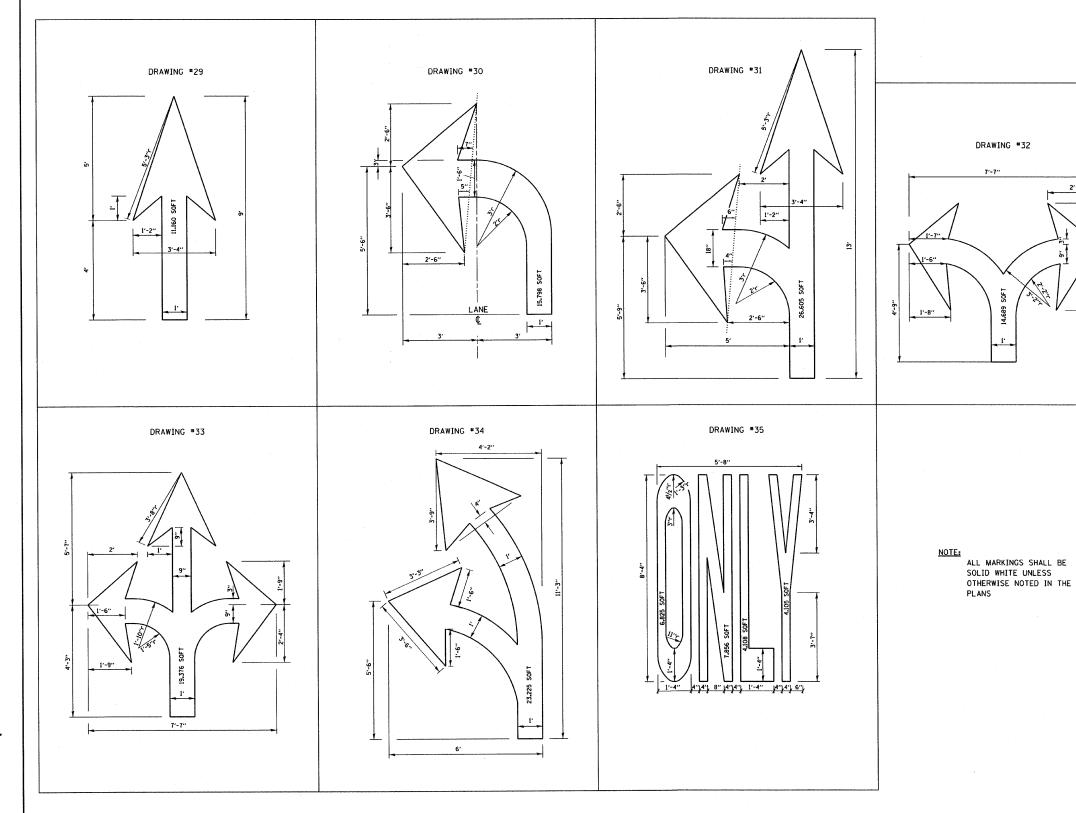
٦	CITY OF CHICAGO					F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	TYPICAL PAVEMENT MARKINGS						1617-I-1	COOK	13	12
١		ITPICAL PAVEWENT MARKINGS						CONTRACT	NO. 60	J69
	SCALE: NONE	SHEET NO. 1 OF 2 SH	HEETS S	STA.	TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				





- NOTE:
 1.) FOR BIKE LANE SYMBOLS ONLY,
 USE PRE-FORMED THERMOPLASTIC
 WITH A MINIMUM THICKNESS OF 90 MILS,
 MINIMUM SKID 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



SCALE: NONE

FILE NAME =	USER NAME = gaglianobt	DESIGNED -	REVISED -T. RAMMACHER 12-07-0
W:\diststd\22x34\tc24.d	gn	DRAWN ~	REVISED -
	PLOT SCALE = 50.000 '/ IN.	CHECKED -	REVISED -
	PLOT DATE = 1/4/2008	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CITY OF CHICAGO	F.A. C. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TYPICAL PAVEMENT MARKINGS	2729	1617-1-1	COOK	13	13
		TC-24 CONTRACT NO. 60J69			J69
SHEET NO. 2 OF 2 SHEETS STA. TO STA	FED. R	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			