STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION **DIVISION OF HIGHWAYS**

PROPOSED HIGHWAY PLANS

FAP 368: PULASKI RD (NB) OVER BRC RR

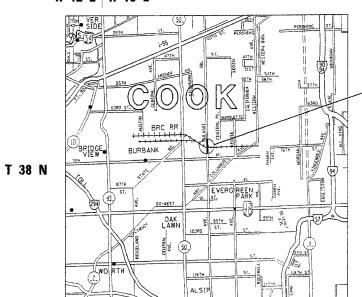
SECTION 2005-0761

PPC DECK BEAM REPLACEMENT **COOK COUNTY**

C-91-114-06

SN 016-1020

R 12 E R 13 E



LOCATION OF

IMPROVEMENT

SN 016-1020

TRAFFIC DATA:

PULASKI RD: 2002 ADT = 52,800

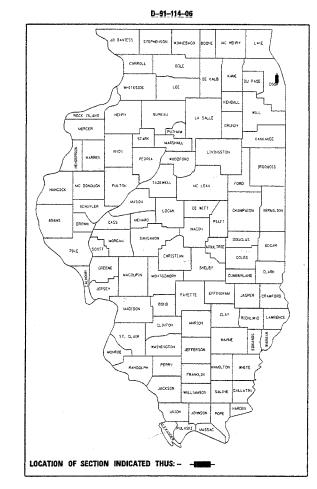
POSTED SPEED LIMIT = 35 MPH

LAKE TOWNSHIP

F.A.P. SECTION 368 2005-0761

CONTRACT NO. 6048

COUNTY



STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS

Oct. 27 2005

Diane M. O' Reafe / Conf
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

OF THE STATE OF ILLINOIS

Cris Harry D DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

PRINTED BY THE AUTHORITY

FOR INDEX OF SHEETS, SEE SHEET NO. 2

IMPROVEMENT LOCATED IN THE CITY OF CHICAGO

ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES, IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

CHICAGO UTILITY ALERT NETWORK 1-312-744-7000

CONTRACT NO. 60A82

ENGINEER

		OUNTINACT	110. 01	UMOZ
A.P. TE.	SECTION	COUNTY	TOTAL	SHEET NO.
368	2005-0761	COOK	12	2
TA.		TO STA		
ED. ROA	O DIST. NO. 1 TILL TH	INIS EED AID	PPA IECT	

INDEX OF SHEETS

STATE STANDARDS

SHEET NO.			
SHEET NO.	DESCRIPTION	STANDARD NO.	DESCRIPTION
1	TITLE SHEET	701301 -02	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
2	INDEX OF SHEETS, STATE STANDARDS, & GENERAL NOTES	701601 - 04	IW OR URBAN LANE CLOSURE MULTILANE & 2W WITH NONTRAVERSABLE MEDIAN
3	SUMMARY OF QUANTITIES.	701801 -<i>0</i>3	
4-7	BRIDGE REPAIR DETAILS SN 016-1020	101001 09	LANE CLOSURE, MULTILANE, 1W OR 2W CROSSWALK OR SIDEWALK CLOSURE
8-9	TRAFFIC STAGING PLANS	702001 - <i>0</i>5	TRAFFIC CONTROL DEVICES
10	DISTRICT ONE TYPICAL PAVEMENT MARKINGS	704001 -02	TEMPORARY CONCRETE BARRIER
11 ·	TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC)		
12	TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS AND DRIVEWAYS		

BITUMINOUS MIXTURE REQUIREMENTS

MIXTURE TYPE	AC TYPE	MAX RAP %	AIR VOID %
BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX "D", N50	PG 64-22	15	4% @ 50 GYR

THE UNIT WEIGHT USED TO CALCULATE ALL BITUMINOUS SURFACE MIXTURES IS 112 LBS./SQ.YD./IN.

GENERAL NOTES

BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "C.U.A.N." AI (312) 744-7000 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE & GAS UTILITIES. 48 HOUR NOTIFICATION IS REQUIRED.

THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES

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

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

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

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-ESTABLISHEDFOR STRIPING, EXACT LOCATIONS OF ALL PAVEMENT MARKINGS SHALL BE AS DIRECTED BY THE ENGINEER

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

THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE ARTERIAL TRAFFIC CONTROL SUPERVISOR AT (847)705-4470 A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.

DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.

A MINIMUM OF 10 DAYS BEFORE BEGINNING ANY WORK ON PULASKI RD, THE CONTRACTOR SHALL CONTACT DAVE HOVING IN TRAFFIC SIGNALS AT (847) 705-4418. IN ADDITION, THE CONTRACTOR SHALL CONTACT DAVE HOVING A MINIMUM OF ONE DAY IN ADVANCE OF THE FOLLOWING THREE STAGES: THE START OF JOB, THE POURING OF CONCRETE, AND THE COMPLETION OF THE JOB.

THE ENGINEER SHALL CONTACT SCOTT KUZNICKI TRAFFIC FIELD ENGINEER AT (773) 685-8386 TWO (2) WEEKS PRIOR TO THE START OF THIS PROJECT SO THAT EXACT STATIONING OF NO PASSING ZONES AND OTHER PERMANENT PAVEMENT MARKINGS MAY BE ESTABLISHED

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

REVISIONS
NAME
DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

INDEX OF SHEETS
STATE STANDARDS
GENERAL NOTES

SCALE:
DRAWN BY
DATE
CHECKED BY

II/7/2005 c:\projects\dIII406\design-aa.dgn midv.ia

CONTRACT NO. 60A82

F.A.P. RTE.	SECTION		COUNT	Y	TOTAL SHEETS	SHEET NO.
368	2005:0761		COOK		12	3
FED.	ROAD DIST, NO. 1	ILL	NOIS	HIG	HWAY PRO	JECT

	SUMMARY OF QUANTITIES			110000	T	CONSTRUC	711014 1111	T		- 1		SUMMARY O	F QUAN	1111F2					CONSTRUC	1	T	
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	URBAN 1001.STATE SFTY-2A						CODE N	0	1	TEM		UNIT	TOTAL QUANTITIES	SFTY-2A					
		66.17								-							-					
001000	BITUMINOUS CONCRETE SURFACE REMOVAL	SQ YD	10.9	10.9																		
102400	CONCRETE REMOVAL	CU YD	1. 8	1.8																		
300255	CONCRETE SUPERSTRUCTURE	CU YD	16.6	16.6																		
300300	PROTECTIVE COAT	SQ YD	66.3	66.3																		
400405	PRECAST PRESTRESSED CONCRETE DECK BEAMS (21" DEPTH)	SQ FT	806	806																		
500405	FURNISHING AND ERECTING STRUCTURAL STEEL	POUND	1130	1130																		
800205	REINFORCEMENT BARS, EPOXY COATED	POUND	2020	2020									*									
3100200	WATERPROOFING MEMBRANE SYSTEM	SQ YD	67.6	67.6											_							
300100	PORTLAND CEMENT MORTAR FAIRING COURSE	FOOT	272	272																		
000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	2	2																		
100100	MOBILIZATION	L SUM	1	1																		
102630	TRAFFIC CONTROL AND PROTECTION, STANDARD 701601	L SUM	1	1																		
102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	1	1							-											
400100	TEMPORARY CONCRETE BARRIER	FOOT	240	240																		
400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	110	110																		
000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	F00T	200	200													to the distribution of the					
320047	REMOVAL OF EXISTING PRECAST PRESTRESSED CONCRETE DECK BEAMS	SQ FT	80∕	806																		
322467	TEMPORARY INFORMATION SIGNING FOR LANE CLOSURE	SQ FT	48	48													ALL CALL CALL CALL CALL CALL CALL CALL		-			
066424	BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX "D", N50	TON	11.4	11.4				1														
001900	ASBESTOS BEARING PAD REMOVAL	EACH	7	7																		
030240	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 2	EACH	1	1	Parameter de la constante de l		and the second s		***************************************													
030340	IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE), TEST LEVEL 2	EACH	1	1	HATTO-												- Salara de Caración de Caraci					
048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM	1	1																		
					į.													/				

REVISIONS ILLINOIS DEPARTMENT OF TRANSPORTATION

NAME DATE SUMMARY OF QUANTITIES

ASFTY-3N * SPECIALTY ITEMS

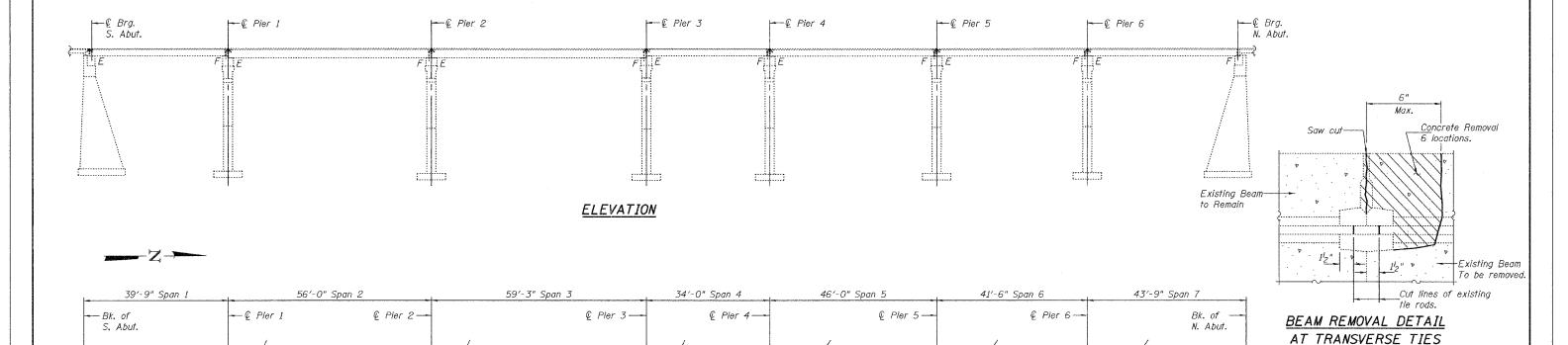
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	cou	UNTY	TOTAL	SHEET NO,			
		Co	ok	12 4				
PEO. ROAD DIST	. NO. 7	DUINOIS	FED. AID PR	DJECT-				

SHEET NO. 1

4 SHEETS

Contract Number: 60A82



36" Rean Existing tie rods to -Cut existing WT section be cut (typ) see detail flush with existing beam on this sheet. prior to beam removal. Typical for all locations except North Abutment. PLAN

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.

Any damage done to the bridge during beam removal shall be repaired by the Contractor. Cost to be included in the cost of "Removal of Existing P.P.C. Deck Beams".

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

The top surface of the beams shall be finished in accordance with Article 504,06 of the Standard Specifications except that the surface shall not be roughened by brooming. The finished surface shall be free of depressions or high spots with sharp corners, and the top edge of keys shall be rounded or chamfered a minimum of $\frac{1}{4}$ ".

Temporary concrete barrier shall only be anchored into the overlay and not the PPC Deck Beams.

All structural steel shall be shop painted with the inorganic zinc rich primer per AASHTO M300, Type 1. Cost included with Furnishing and Erecting Structural

Existing reinforcement extending into the removal area shall be cleaned, straightened and incorporated into the new construction. Any reinforcement bars that are damaged during concrete removal shall be replaced with an approved bar splicer or anchorage system. Cost shall be included with Concrete Removal.

For stage construction details see Roadway Plans.

DESIGN STRESSES PRESTRESS UNITS

(New Construction) f'c = 5,000 psi f'ci = 4,000 psi $f's = 270,000 (\frac{1}{2})^{\circ} \text{ low relaxation strands})$ $f'si = 201,960 \left(\frac{1}{2} \% \text{ low relaxation strands}\right)$

TOTAL BILL OF MATERIAL

ITEM	UNĮT	QUANTITY
Bituminous Concrete Surface Removal	Sq. Yd.	10.9
Waterproofing Membrane System	Sq. Yd.	67.6
Removal of Existing PPC Deck Beams	Sq. Ft.	806
Bituminous Concrete Surface Course, Superpave Mix "D", N 50	Tons	11,4
PC Mortar Fairing Course	Foot	272
PPC Deck Beams (21" Depth)	Sq. Ft.	808
Concrete Removal	Cu. Yd.	1.8
Concrete Superstructure	Cu. Yd.	16.6
Protective Coat	Sq. Yd.	66.3
Furnishing and Erecting Structural Steel	Pound	1,130
Asbestos Bearing Pad Removal	Each	7
Reinforcement Rars Enoxy Coated	Pound	2.020

DESIGNED VICTOR H VELIZ CHECKED VHV 5,53

Beam Beam 2

Beam 5 Beam 6 ∤Beam 7 : Beam 8 √Beam 9

Beam 10

Beam 12

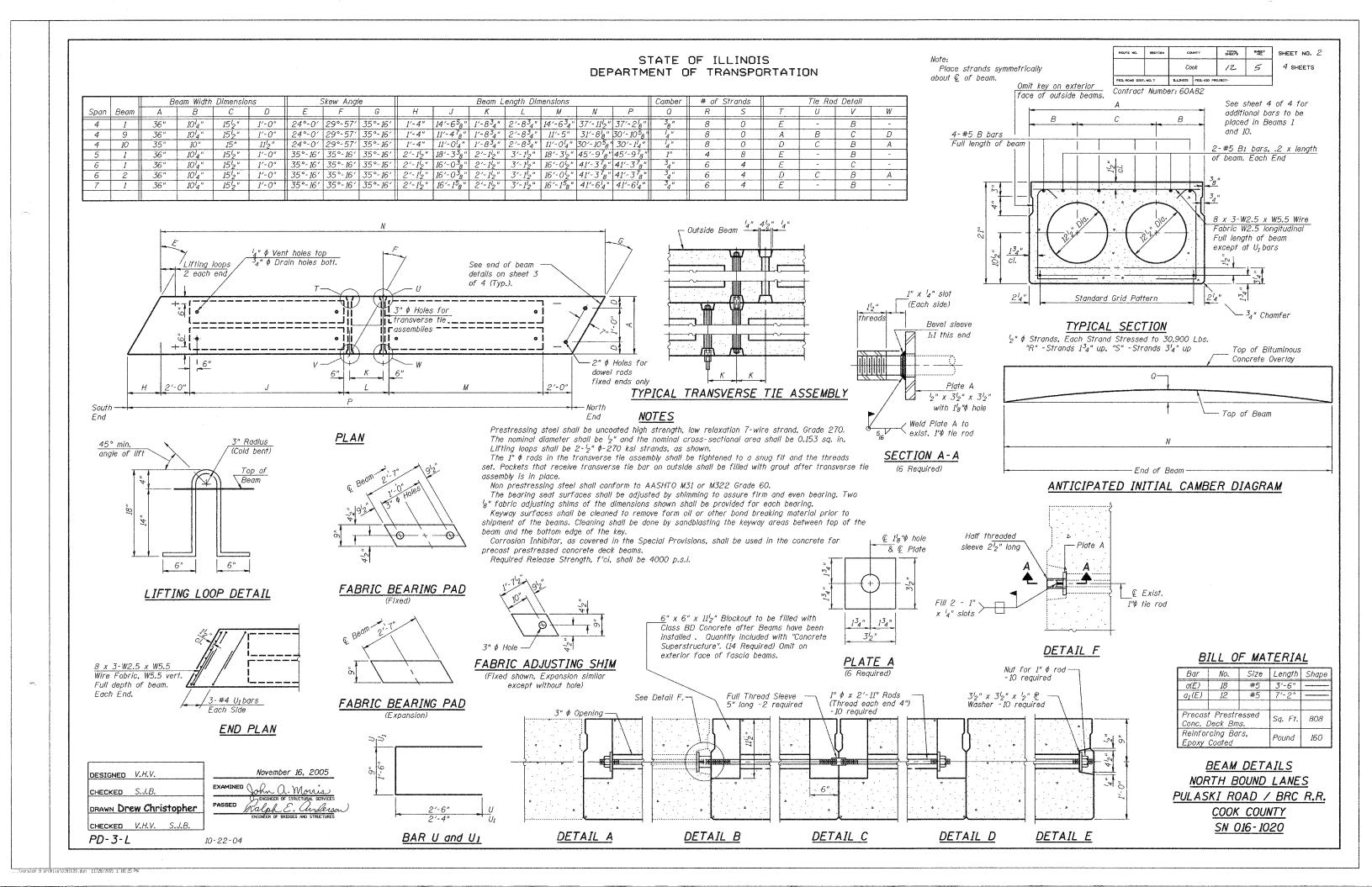
November 30, 2005 EXAMINED John a. Morris Ragel E. Anderson

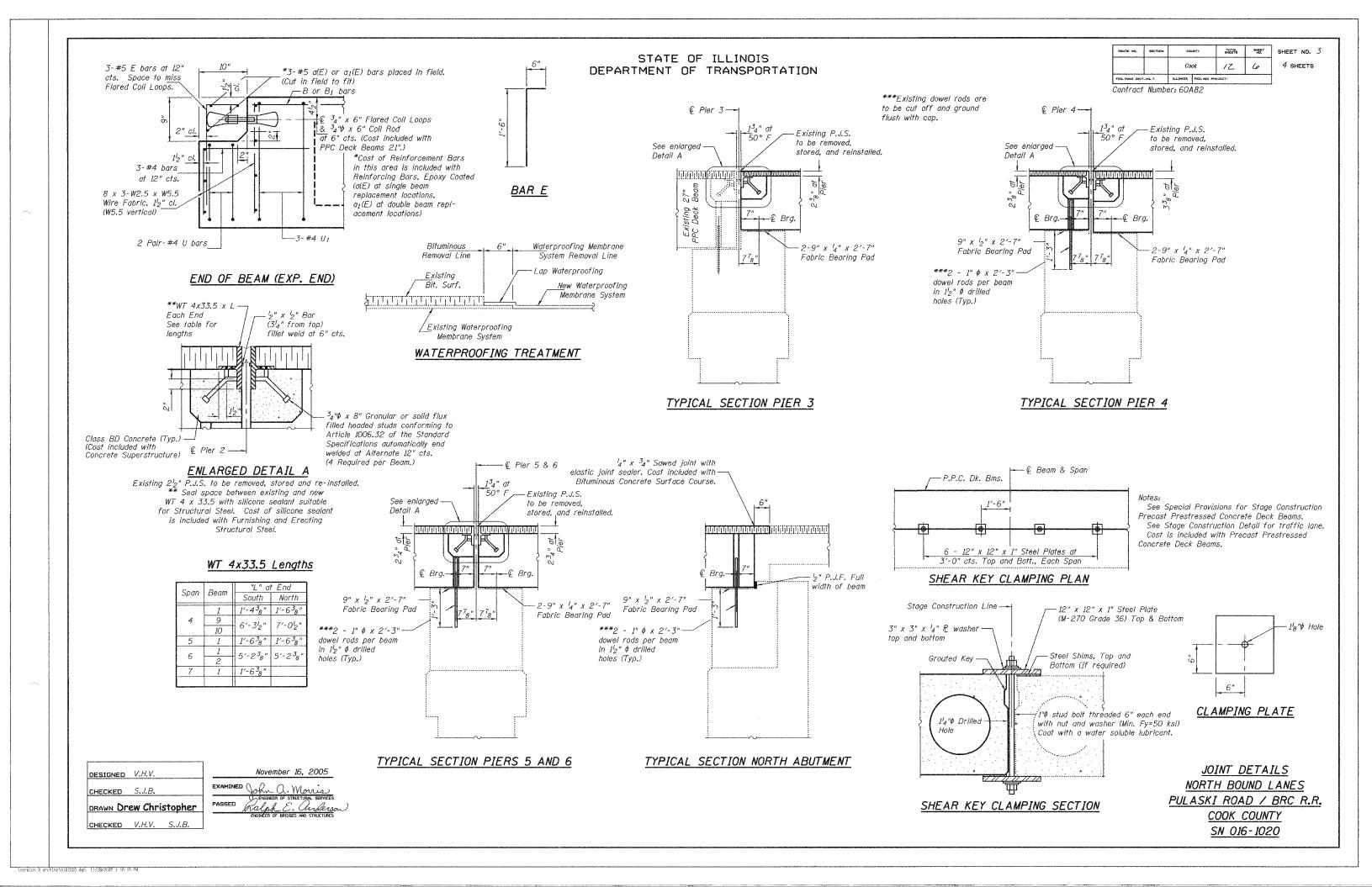
Roadway -

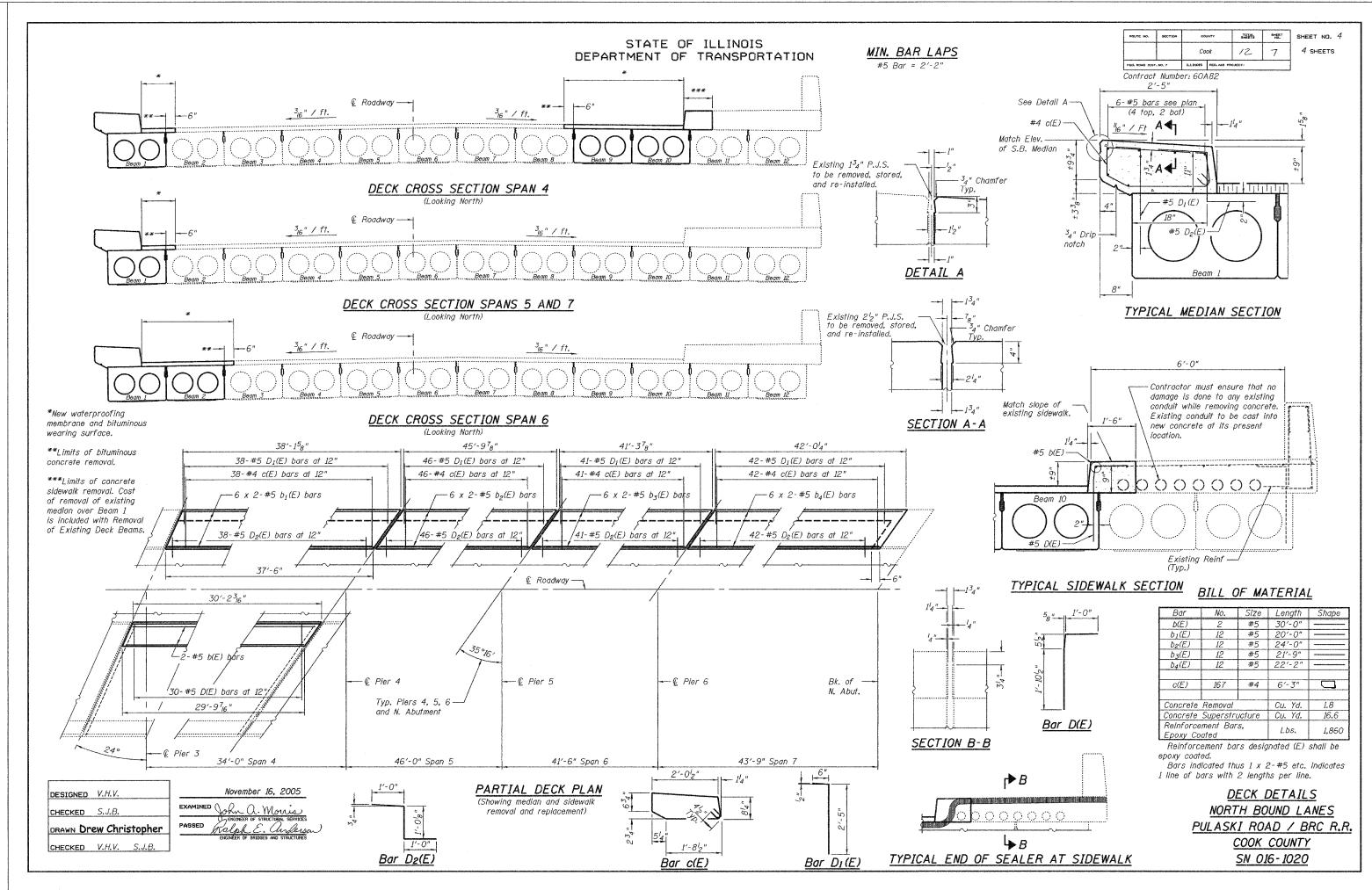
Expires: November 30, 2006

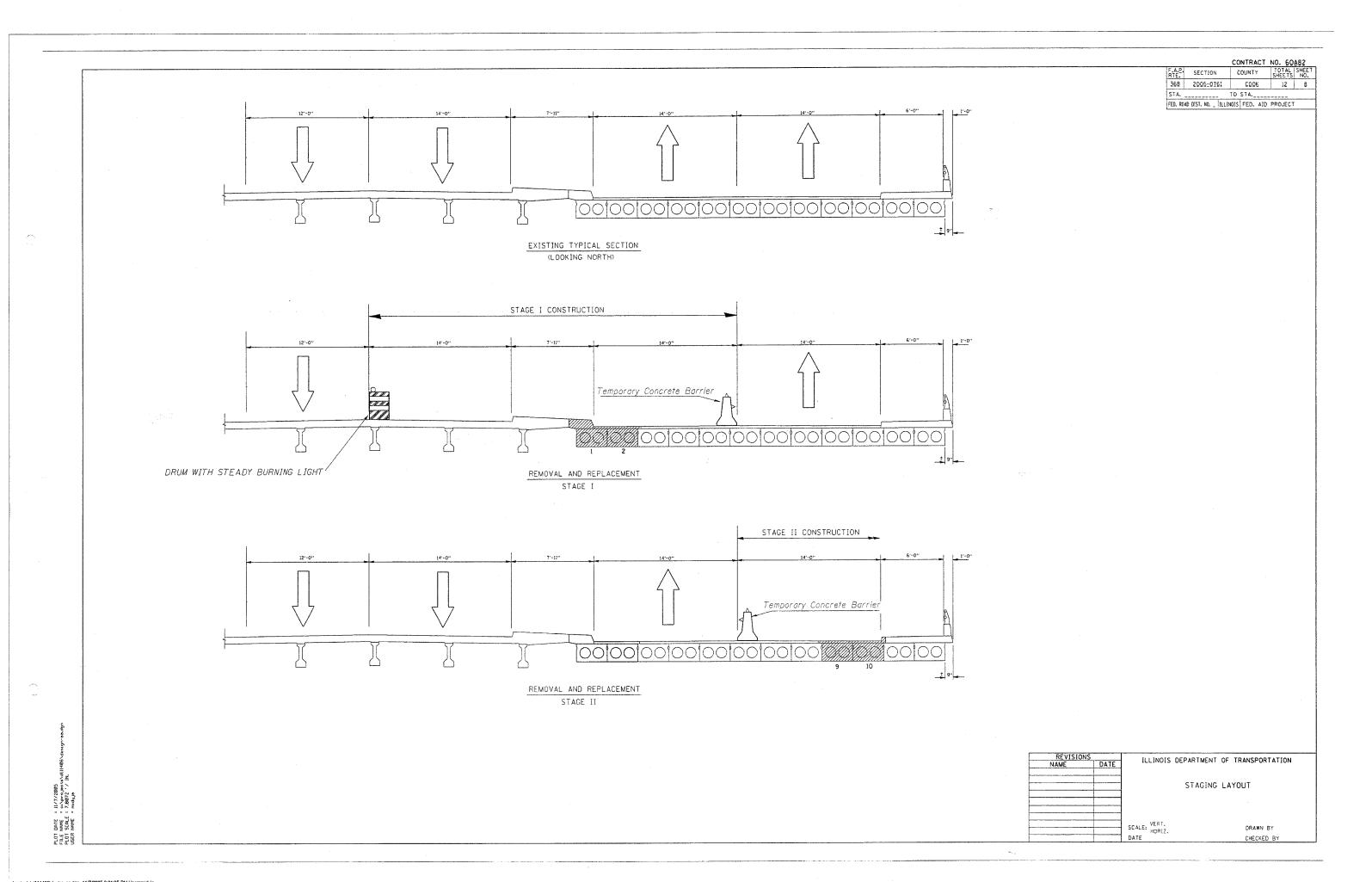
PLAN AND ELEVATION NORTH BOUND LANES PULASKI ROAD / BRC R.R. COOK COUNTY

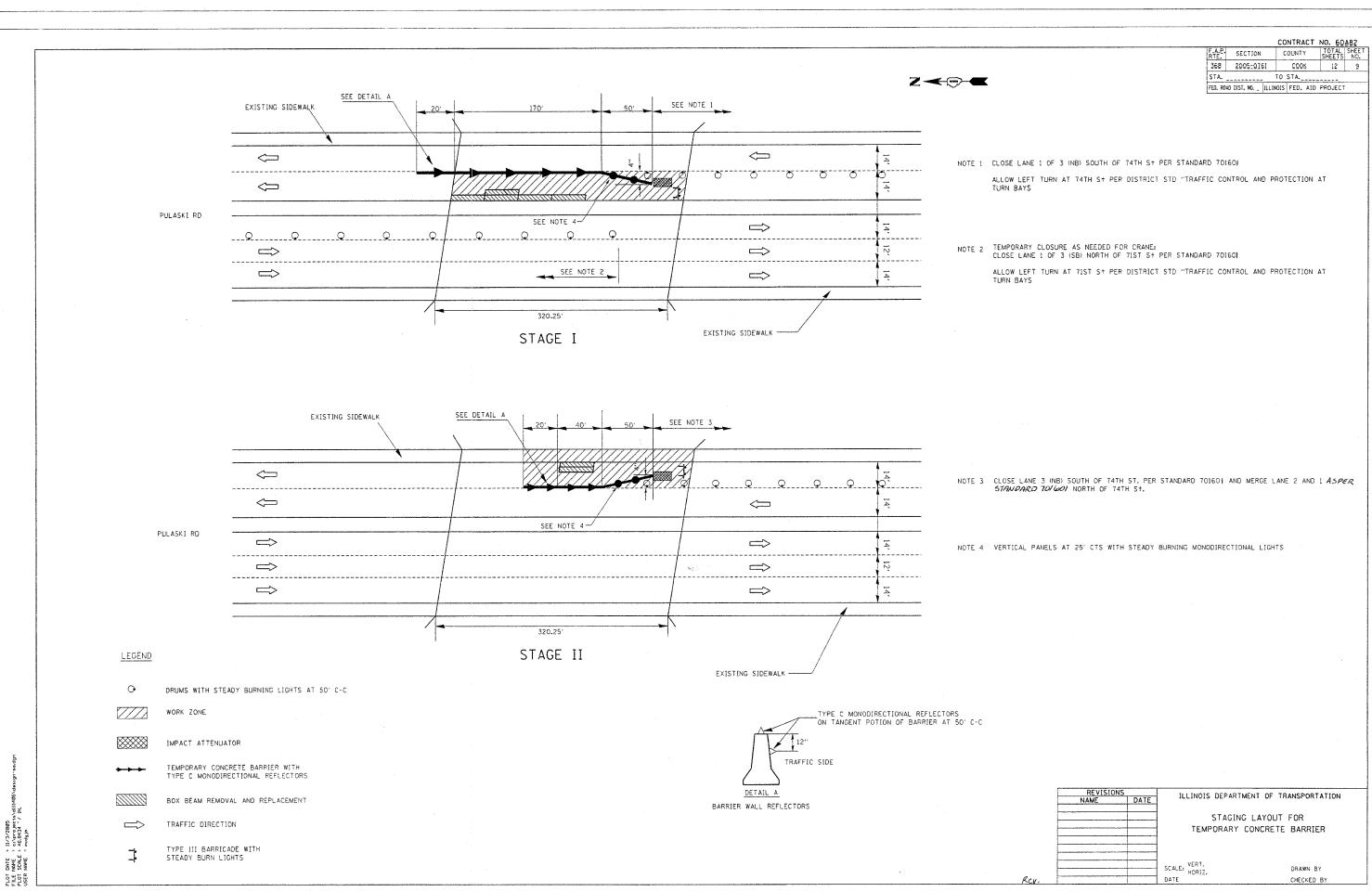
SN 016-1020

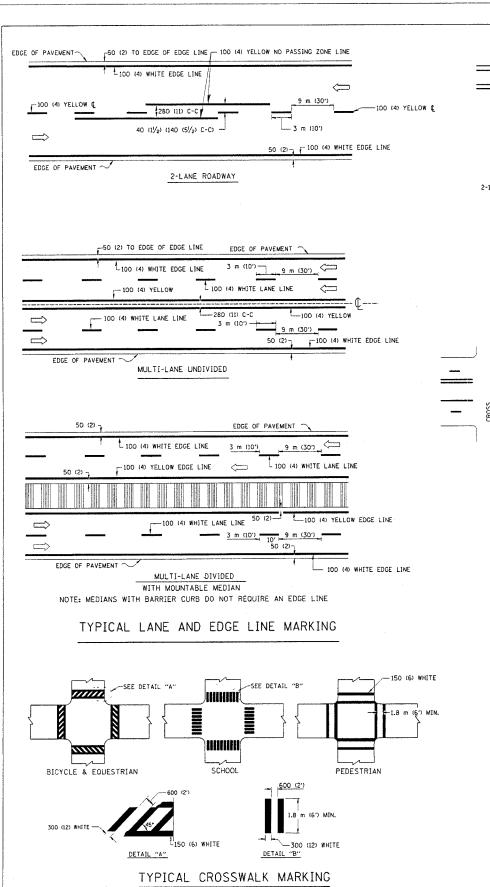


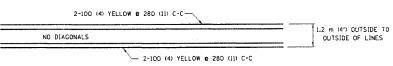




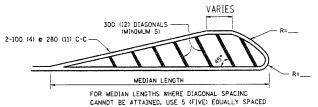








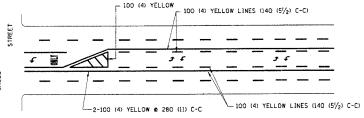
1.2 m (4') WIDE MEDIANS ONLY



DIAGONAL LINE SPACING: 15 m (50") C-C (LESS THAN 50 km/h (30 MPH))
25 m (75") C-C (50 km/h (30 MPH) TO TO km/h (45 MPH))
45 m (150") C-C (MORE THAN 70 km/h (45 MPH))

MEDIANS OVER 1.2 m (4') WIDE

DIAGONAL LINES.

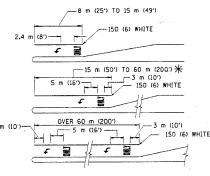


A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 60 m (200') TO 90 m (300') INTERVALS.



MEDIAN WITH TWO-WAY LEFT TURN LANE

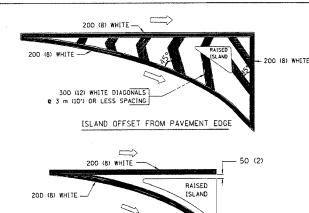
TYPICAL PAINTED MEDIAN MARKING



* 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



TYPICAL ISLAND MARKING

ISLAND AT PAVEMENT EDGE

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	100 (4)	SKIP-DASH	YELLOW	3 m (10") LINE WITH 9 m (30") SPACE
CENTERLINE ON MULTI-LANE UNDIVEDED PAVEMENT	2 e 100 (4)	SOLID	YELLOW	280 (11) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	100 (4) 2 @ 100 (4)	SOLID SOLID	YELLOW YELLOW	140 (5½) C-C FROM SKIP-DASH CENTERLINE 280 (1)) C-C DMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	100 (4) 125 (5) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	3 m (10') LINE WITH 9 m (30') 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 m (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 (2.4 m (8"))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 2 100 (4) EACH DIRECTION	SKIP-DASH AND SOLID	YELLOW	3 m (10") LINE WITH 9 m (30") SPACE FOR SKIP-DASH; 140 (5½) 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° 300 (12) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 1.8 m (6') APART 600 (2') APART 500 (2') APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	600 (24)	SOLID	WHITE	PLACE L2 m (4") IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT. PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 D 100 (4) WITH 300 (12) DIAGONALS E 45° NO DIAGONALS USED FOR 1.2 m (4') WIDE MEDIANS	SOLID	YELLOW: TWO WAY TRAFFIC WHITE: ONE WAY TRAFFIC	280 (11) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	200 (8) WITH 300 (12) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 4.5 m 15') C-C (LESS THAN 50 km/h (30 MPH)) 6 m (20') C-C (50 km/h (30 MPH) TO 70 km/h (45 MPH)) 9 m (30') C-C (OVER 70 km/h (45 MPH))
RAILROAD CROSSING	600 (24) TRANSVERSE LINES: "RR" IS 1.8 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.)
SHOULDER DIAGONALS	300 (12) e 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	15 m (50') C-C (LESS THAN 50 km/h (30 MPH)) 25 m (75') C-C (50 km/h (30 MPH) TO 70 km/h (45 MPH) 45 m (150') C-C (0VER 70 km/h (45 MPH))
				A second

FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STATE STANDARD 780001.

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

ILLINOIS DEPARTMENT OF TRANSPORTATION

REVISIONS DISTRICT ONE

ME DATE TYPICAL PAVEMENT

ACHER 10-27-94 MARKINGS

1-06-00 SCALE: NONE DATE 10/18/2002

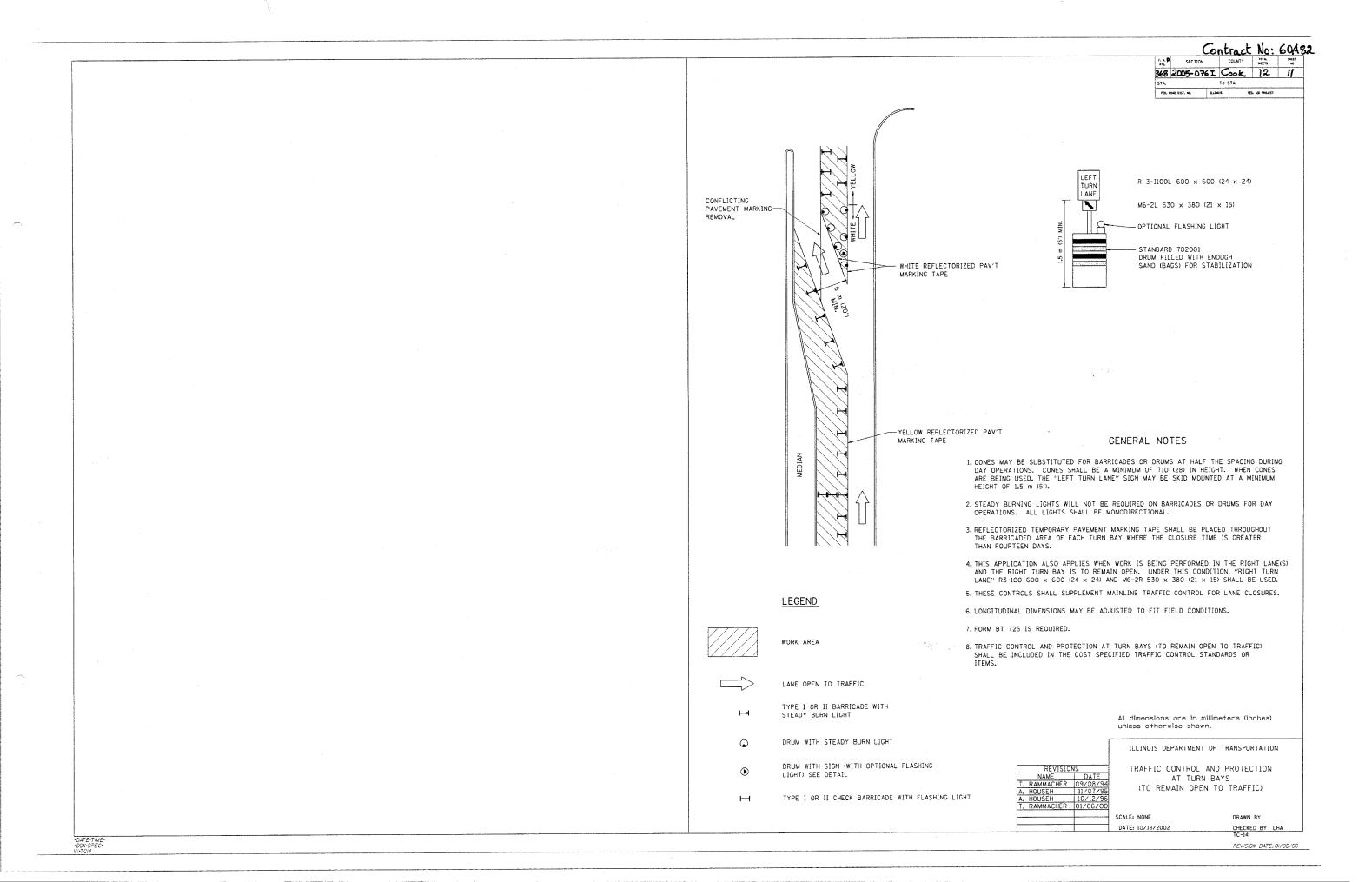
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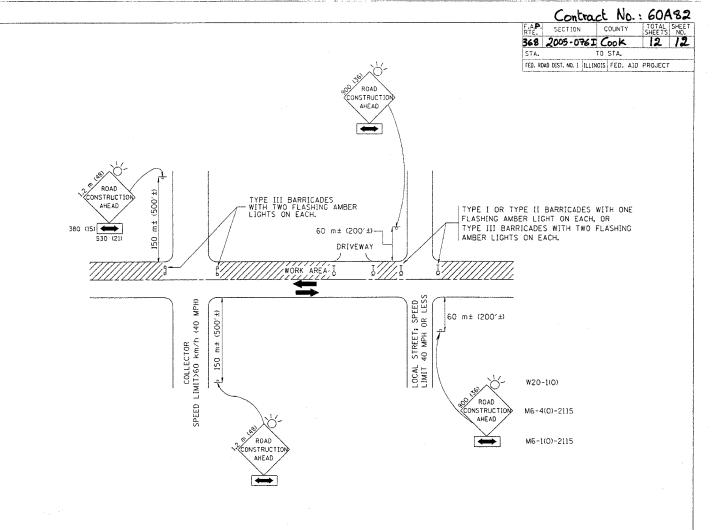
Contract No: 60A82

| SECTION | COUNTY | SOUTH | S

PED. ROAD DEST. NO. SLLENOIS

TC-13 REVISION DATE: 01/06/00





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 DRAWING AND AS DIRECTED BY THE ENGINEER:
- of the main route.

 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.
- 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 x 1.2 m (48x48) WITH A FLASHER MOUNTED ON IT APPROXIMATELY ISO 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 (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).

- 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. 701606 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 LANG 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:		_
NAME	DATE	
LHA	6/89	
T. RAMMACHER	09/08/94	
J. OBERLE	10/18/95	
A. HOUSEH	03/06/96	
A. HOUSEH	10/15/96	
T. RAMMACHER	01/06/00	

ILLINOIS DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND

DRIVEWAYS

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

HORIZ. DRAWN BY
10/18/2002 CHECKED BY

~10

REVISION DATE: 01/06/00