

F. A. U. REC.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1010	01-00050-00-RS	COOK	017	001
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT #83914

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- 2 SUMMARY OF QUANTITIES AND GENERAL NOTES
- 3 TYPICAL CROSS SECTIONS
- 4-9 ROADWAY AND PAVEMENT MARKING PLANS
- 10 CONSTRUCTION DETAILS
- 11-17 DISTRICT ONE DETAILS

STATE STANDARDS

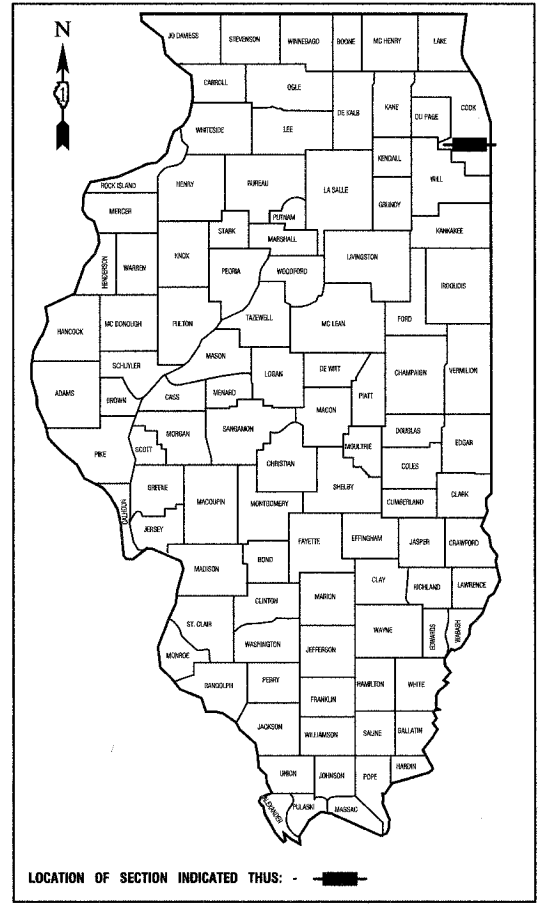
- 424001-04 Curb Ramps For Sidewalks
- 442201-02 Class C and D Patches
- 602301-01 Inlet-Type A
- 604001-02 Frame and Lids, Type 1
- 606001-03 Concrete Curb and Combination Concrete Curb & Gutter
- 701501-03 Urban Lane Closure, 2L 2W Undivided
- 701606-04 Urban Lane Closure Multilane 2W With Mountable Median
- 701701-04 Urban Lane Closure Multilane Intersection
- 701801-03 Lane Closure Multilane 1W or 2W Crosswalk or Sidewalk Closure
- 702001-06 Traffic Control Devices
- 780001-01 Typical Pavement Markings
- 781001-02 Typical Applications Raised Reflective Pavement Markers
- 886001 Detector Loop Installations
- 886006 Typical Layout for Detection Loops

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

**PLANS FOR PROPOSED
FEDERAL AID HIGHWAY**

F.A.U. ROUTE 1010 (WESTVIEW AVE.) FROM 172ND ST. TO ARMORY DR.
F.A.U. ROUTE 1010 (ARMORY DR.) FROM WESTVIEW AVE. TO VINCENNES AVE.
F.A.U. ROUTE 1011 (173RD ST.) FROM INDIANA AVE. TO SOUTH PARK AVE.
LOCAL AGENCY PAVEMENT PRESERVATION

STREET RESURFACING
PROJECT: M-8003(573)
SECTION NO.: 01-00050-00-RS
VILLAGE OF SOUTH HOLLAND &
VILLAGE OF THORNTON
COOK COUNTY
C-91-149-06



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

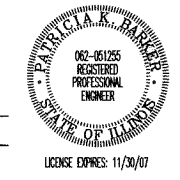
APPROVED: [Signature] 20 07
PRESIDENT, VILLAGE OF SOUTH HOLLAND

PASSED: [Signature] 20 07
DISTRICT ENGINEER OF LOCAL ROADS & STREETS

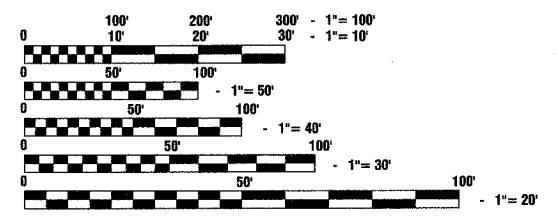
RELEASED FOR BID BASED ON LIMITED REVIEW: April 12 20 07
DEPUTY DIRECTOR OF HIGHWAYS, REGION ONE ENGINEER

PRINTED BY THE AUTHORITY OF
THE STATE OF ILLINOIS

PREPARED BY OR UNDER THE
DIRECT SUPERVISION OF:
[Signature]
2-22-07



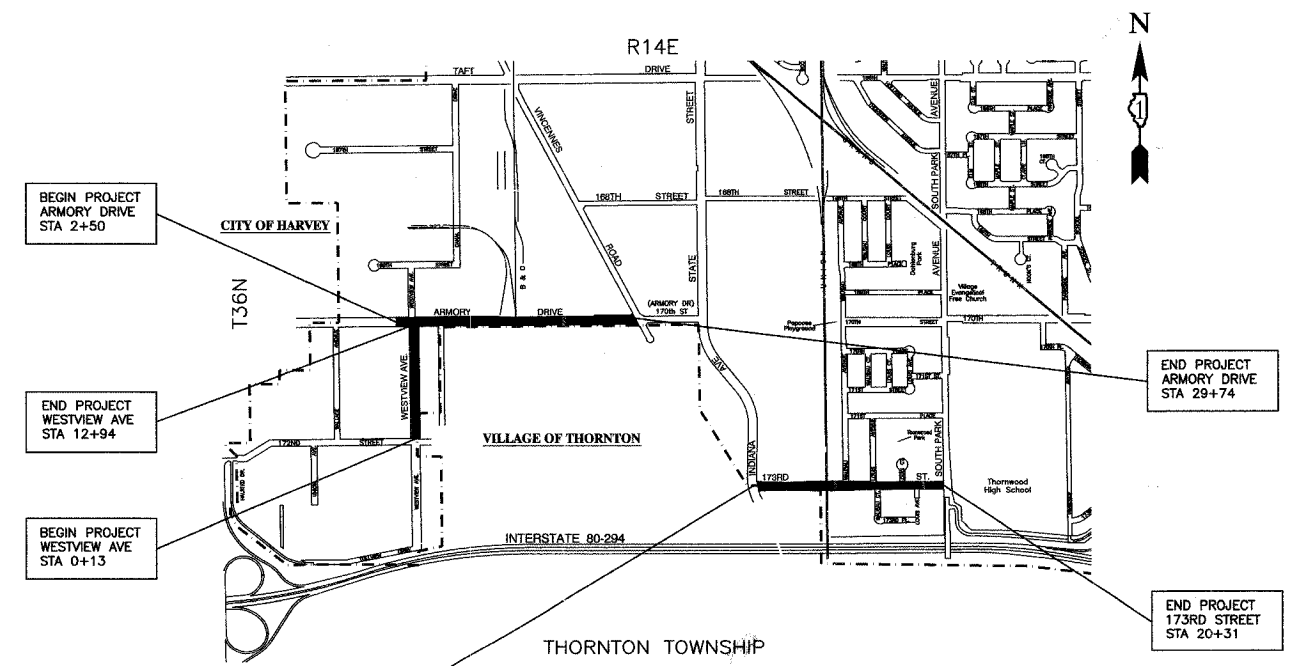
I.D.O.T. FEDERAL AID DESIGN ENGINEER: KEVIN STALLWORTH 847-705-4169
CONSULTANTS: ROBINSON ENGINEERING, LTD. 708-331-6700



FULL 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.

J. U. L. I. E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1 - 800 - 892 - 0123

CONTRACT NO. 83914



LOCATION MAP

- INDICATES PROPOSED IMPROVEMENT
GROSS LENGTH= 5942 FEET = 1.12 MILES
NET LENGTH= 5902 FEET = 1.11 MILES

ADT = WESTVIEW	400 (2007)	400 (2030)
ARMORY	9,200 (2007)	9,500 (2030)
173RD ST	4,100 (2007)	4,300 (2030)

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0110	01-00050-00-RS	COOK	017	002
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CONTRACT #83914

SUMMARY OF QUANTITIES						CONSTRUCTION TYPE CODE		Village of So. Holland	Village of Thornton
S.I.	CODE NO.	PAY ITEM	UNIT	QUAN	1000				
	40600100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	2420	2420		1815	605	
	40600300	AGGREGATE (PRIME COAT)	TON	47	47		35	12	
	40600625	LEVELING BINDER (MACHINE METHOD), N50	TON	585	585		439	146	
	40600895	CONSTRUCTING TEST STRIP	EACH	1	1		1		
	40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	687	687		517	170	
	40601005	HOT-MIX ASPHALT REPLACEMENT OVER PATCHES	TON	310	310		232	78	
	40603310	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	TON	2035	2035		1525	510	
	42300300	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 7 INCH	SQ YD	302	302		269	33	
	42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	350	350		350		
	42400800	DETECTABLE WARNINGS	SQ FT	150	150		150		
	44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	302	302		269	33	
	44000600	SIDEWALK REMOVAL	SQ FT	350	350		350		
	44000196	HOT-MIX ASPHALT SURFACE REMOVAL, SPECIAL	SQ YD	6556	6556		4917	1639	
	44001700	COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT	FOOT	2180	2180		1635	545	
	44002212	HOT-MIX ASPHALT REMOVAL OVER PATCHES 3"	SQ YD	1700	1700		1275	425	
	44201741	CLASS D PATCHES, TYPE II, 8 INCH	SQ YD	98	98		67	31	
	44201745	CLASS D PATCHES, TYPE III, 8 INCH	SQ YD	155	155		116	39	
	44201747	CLASS D PATCHES, TYPE IV, 8 INCH	SQ YD	750	750		562	188	
	48102100	AGGREGATE WEDGE SHOULDER, TYPE B	TON	45	45		45		
	60234200	INLETS, TYPE A, TYPE 1 FRAME, OPEN LID	EACH	1	1		1		
	60250200	CATCH BASINS TO BE ADJUSTED	EACH	16	16		12	4	
	60252800	CATCH BASINS TO BE RECONSTRUCTED	EACH	1	1			1	
	60255410	CATCH BASINS TO BE CLEANED	EACH	2	2		2		
	60255500	MANHOLES TO BE ADJUSTED	EACH	5	5		4	1	
	60500060	REMOVING INLETS	EACH	1	1		1		
	67100100	MOBILIZATION	L SUM	1	1		0.75	0.25	
	70102620	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	L SUM	1	1		0.75	0.25	
	70102625	TRAFFIC CONTROL AND PROTECTION, STANDARD 701606	L SUM	1	1		0.75	0.25	
	70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1	1		0.75	0.25	
	70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	1	1		1		
	70300100	SHORT-TERM PAVEMENT MARKING	FOOT	2898	2898		2116	782	
*	78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	385	385		321	64	
*	78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	13526	13526		11346	2180	
*	78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	285	285		201	84	
*	78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	455	455		361	94	
*	78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	75	75		45	30	
	78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	25	25		15	10	
*	88600600	DETECTOR LOOP REPLACEMENT	FOOT	276	276		166	110	
	X0322052	REJUVENATING AGENT	GALLON	2428	2428		1914	514	
	X0322256	TEMPORARY INFORMATION SIGNING	SQ FT	108	108		88	20	
	X0324096	HOT IN-PLACE RECYCLING	SQ YD	24200	24200		18150	6050	
	Z0017500	DRAINAGE & DRAINAGE UTILITY STRUCTURE ADJUSTMENT, SPECIAL	EACH	15	15		11	4	
	Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM	1	1		0.75	0.25	
	XX006948	HOT-MIX ASPHALT DRIVEWAY REMOVAL AND REPLACEMENT	SQ YD	490	490		368	122	
	40201000	AGGREGATE FOR TEMPORARY ACCESS	TON	8	8		8		

* INDICATES SPECIALTY ITEMS

GENERAL NOTES

- BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "J.U.L.I.E." AT (800) 892-0123 AT (312) 744-7000 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE AND GAS UTILITIES. (48 HOUR NOTIFICATION IS REQUIRED).
- UTILITIES INDICATED ON THE PLANS ARE PROVIDED FOR THE CONTRACTORS USE AND ARE BASED UPON INFORMATION AVAILABLE AT THE TIME OF THE ADVERTISEMENT FOR BIDS. THE OWNER AND ENGINEER DO NOT GUARANTEE THE ACCURACY OF UTILITIES INFORMATION.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.
- SCHEDULES INCLUDED IN THE PLANS HAVE BEEN PREPARED FROM FIELD NOTES. EXACT LOCATIONS FOR PATCHING SHALL BE DETERMINED IN THE FIELD BY THE ENGINEER.
- ANY REFERENCE TO STANDARDS THROUGHOUT THE PLANS OR SPECIAL PROVISIONS SHALL BE INTERPRETED TO BE THE LATEST STANDARDS OF THE ILLINOIS DEPARTMENT OF TRANSPORTATION.
- THE NOMINAL THICKNESS OF HOT-MIX ASPHALT MIXTURE STATED IN THE SPECIFICATIONS IS THE NOMINAL THICKNESS. DEVIATIONS FROM THE NOMINAL THICKNESS WILL BE PERMITTED WHEN SUCH DEVIATIONS OCCUR DUE TO IRREGULARITIES IN THE EXISTING SURFACE OR BASE ON WHICH THE HOT-MIX ASPHALT SURFACE IS PLACED.

REVISIONS	
NAME	DATE

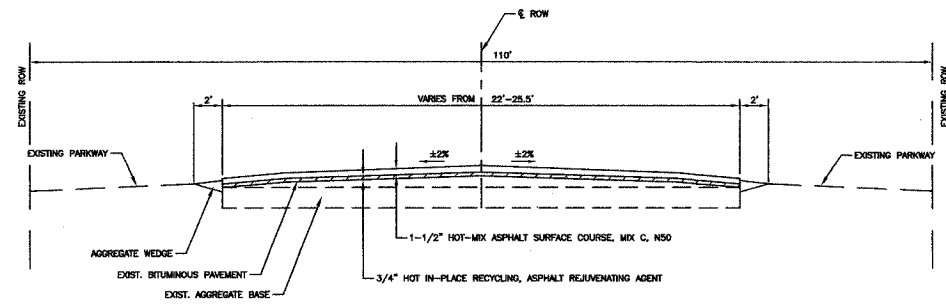
ILLINOIS DEPARTMENT OF TRANSPORTATION

**STREET RESURFACING
SUMMARY OF QUANTITIES AND
GENERAL NOTES**

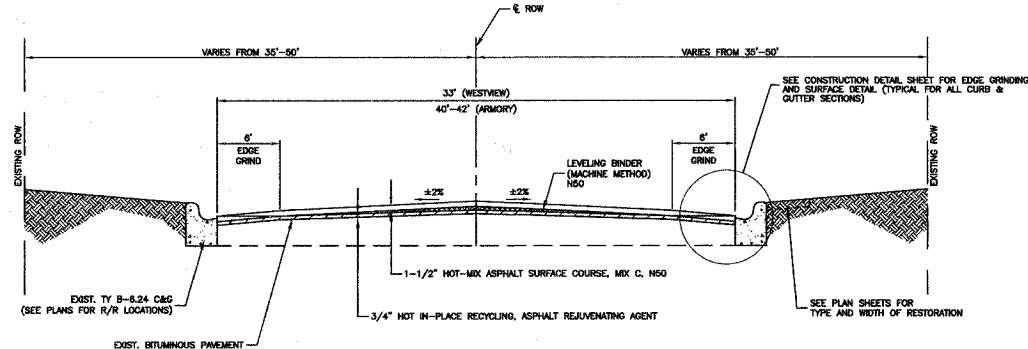
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 HORIZ. NA CHECKED BY PB
 DATE 02/23/07

F. A. U. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1110	01-00050-00-RS	COOK	017	003
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

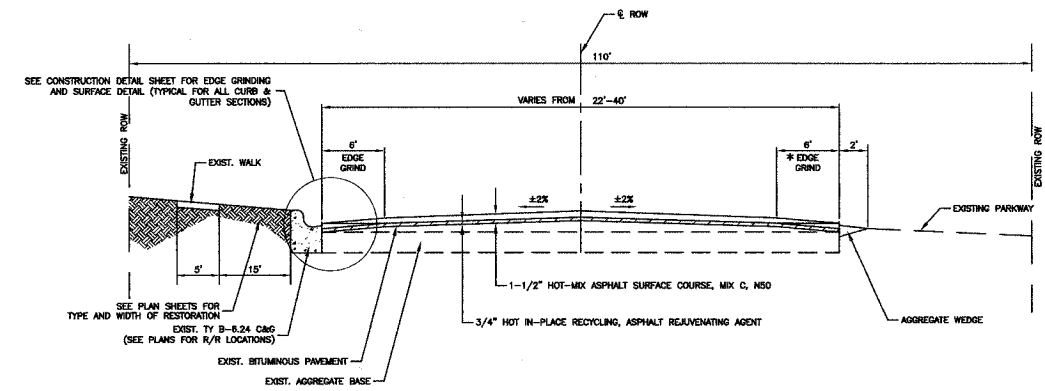
CONTRACT #83914



EXISTING AND PROPOSED TYPICAL CROSS SECTION
173RD STREET
FROM STA 0+94 TO STA 8+20

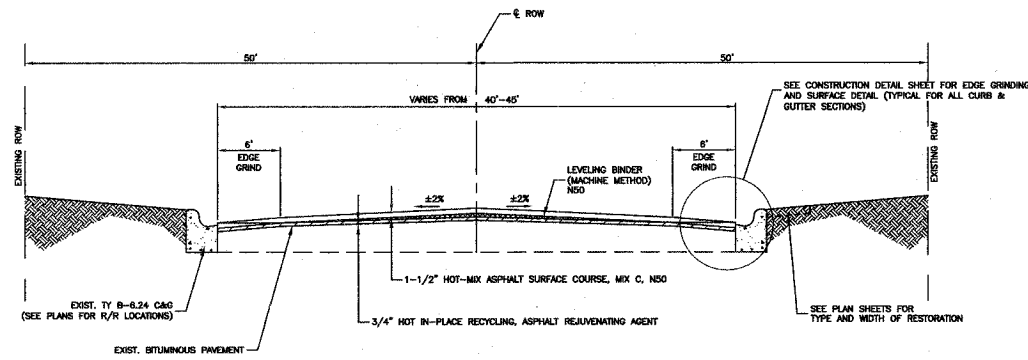


EXISTING AND PROPOSED TYPICAL CROSS SECTION
WEST VIEW AVENUE
FROM STA 0+13 TO STA 12+94
ARMORY DRIVE
FROM STA 2+50 TO STA 26+00

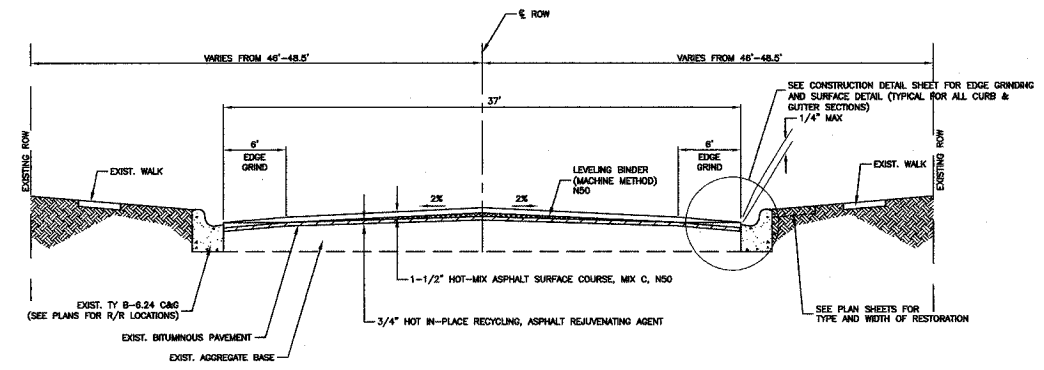


EXISTING AND PROPOSED TYPICAL CROSS SECTION
173RD STREET
FROM STA 8+20 TO STA 11+83
FROM STA 18+00 TO STA 20+31

*EDGE GRIND FROM STA 18+00 TO STA 20+31 ONLY. THIS SECTION TO RECEIVE LEVELING BINDER, N50



EXISTING AND PROPOSED TYPICAL CROSS SECTION
ARMORY DRIVE
FROM STA 26+00 TO STA 29+77



EXISTING AND PROPOSED TYPICAL CROSS SECTION
173RD STREET
FROM STA 11+83 TO STA 18+00

HOT-MIX ASPHALT MIXTURE REQUIREMENTS

ITEM	AC TYPE	VOIDS
LEVELING BINDER (MACHINE METHOD), N50	PG 64-22/58-22	4% @ 50 GYR
HOT-MIX ASPHALT SURF. CSE., SUPERPAVE, MIX "C", N50	PG 64-22	4% @ 50 GYR
CLASS D PATCHES, TYPE II,III,IV 8 INCH	PG 64-22/58-22	4% @ 70 GYR
HOT-MIX ASPHALT REPLACEMENT OVER PATCHES (BINDER IL-19MM)	PG 64-22/58-22	4% @ 70 GYR
HOT-MIX ASPHALT DRIVEWAYS (SURFACE COURSE, MIX C, N50)	PG 64-22	4% @ 50 GYR

THE UNIT WEIGHT USED TO CALCULATE ALL HOT-MIX ASPHALT SURFACE MIXTURE QUANTITIES IS 112 LBS/SQ YD/IN WHEN RAP EXCEEDS 20%, THE NEW ASPHALT BINDER IN THE MIX SHALL BE PG 58-22

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ILLINOIS DEPARTMENT OF TRANSPORTATION

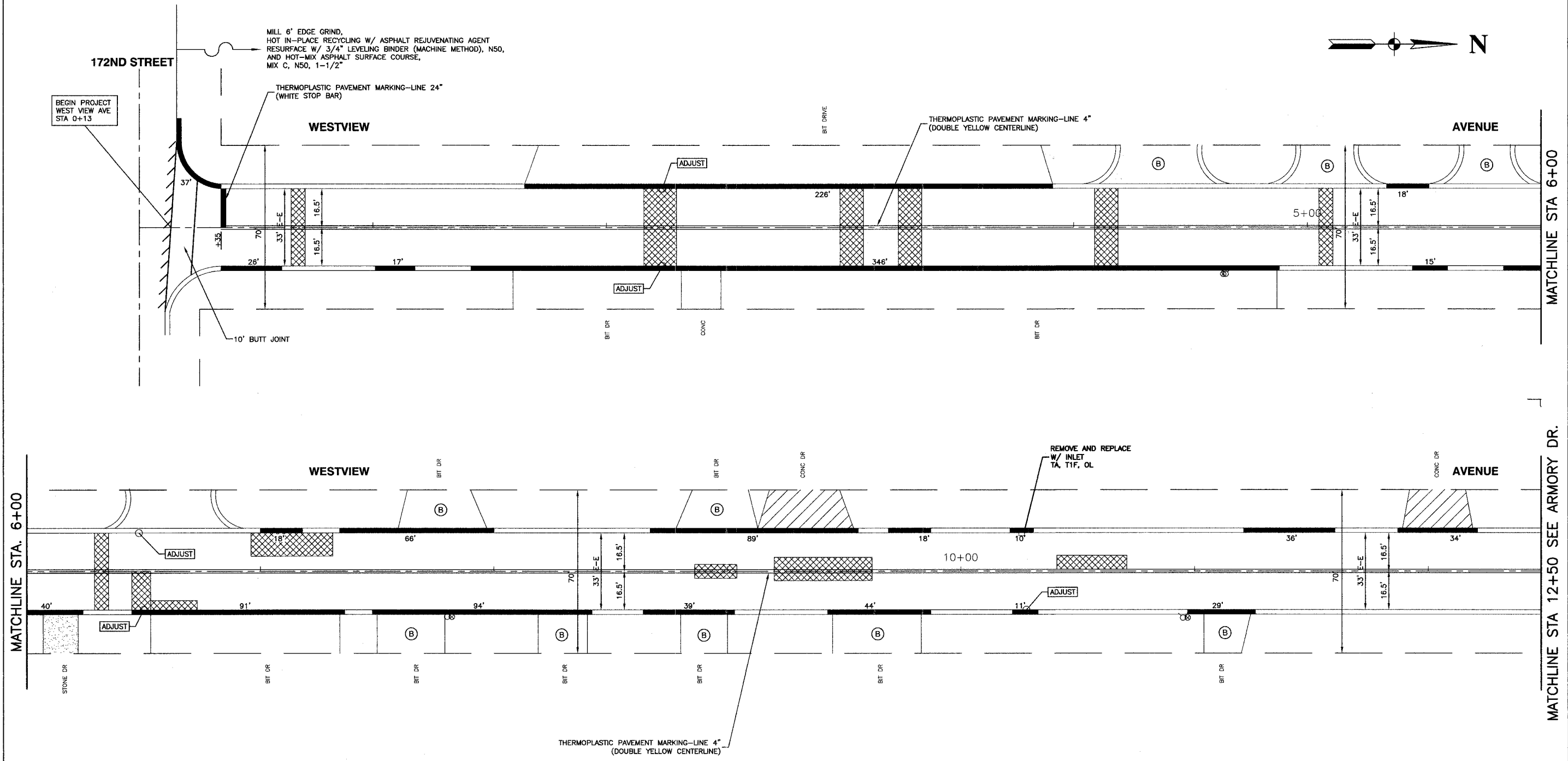
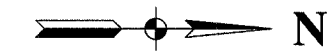
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SCALE: VERT. NA
HORIZ. NA
DATE 02/23/07






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CHECKED BY PB

F. A. U. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
01-00050-00-RS	01-00050-00-RS	COOK	017	004
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT #83914



LEGEND

-  CLASS D PATCHES, 8"
-  DRIVEWAY REMOVAL AND REPLACEMENT
-  BITUMINOUS DRIVEWAY REMOVAL AND REPLACEMENT
-  COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT
-  DETECTABLE WARNING

NOTE: 1.) FOR ROADWAY INFORMATION, SEE TYPICAL CROSS-SECTIONS.
 2.) PARKWAY RESTORATION FOR HOT-MIX ASPHALT DRIVES, P.C.C. DRIVES, P.C.C. SW AND AGGREGATE DRIVES SHALL BE A MAXIMUM OF 5' WIDE UNLESS DIRECTED BY THE ENGINEER. SEE SPECIAL PROVISIONS. SEE DISTRICT ONE DETAIL FOR GRASSED AREAS.

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ILLINOIS DEPARTMENT OF TRANSPORTATION

**WESTVIEW AVENUE
 STREET RESURFACING &
 PAVEMENT MARKING
 STA 0+13 TO STA 12+50**

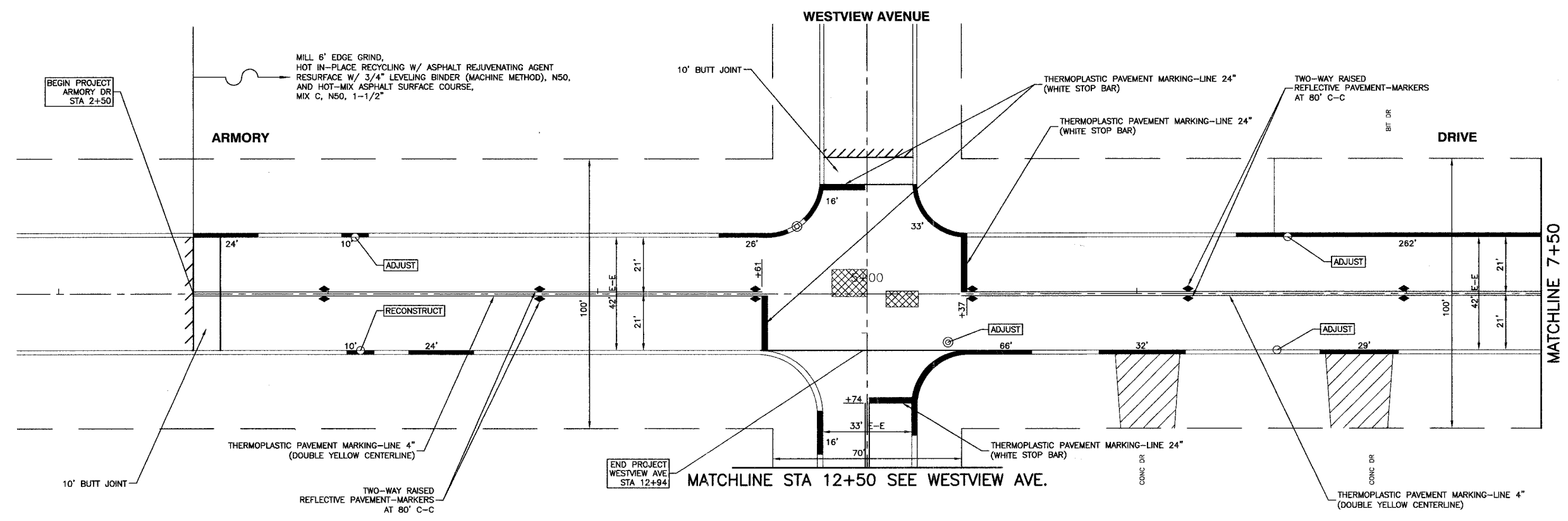
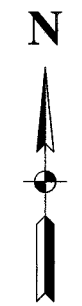
SCALE: VERT. 1"=20'
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 DATE 02/23/07

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ROBINSON ENGINEERING, LTD.
 17000 SOUTH PARK AVENUE, SOUTH HOLLAND, ILLINOIS 60470
 (708) 551-8700 FAX (708) 551-9628
 ILLINOIS DESIGN FIRM REGISTRATION NO. 164601126 01274-PM03-01

F. A. U. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1015	01-00050-00-RS	COOK	017	005
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT #83914



LEGEND

- CLASS D PATCHES, 8"
- DRIVEWAY REMOVAL AND REPLACEMENT
- BITUMINOUS DRIVEWAY REMOVAL AND REPLACEMENT
- COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT
- DETECTABLE WARNING

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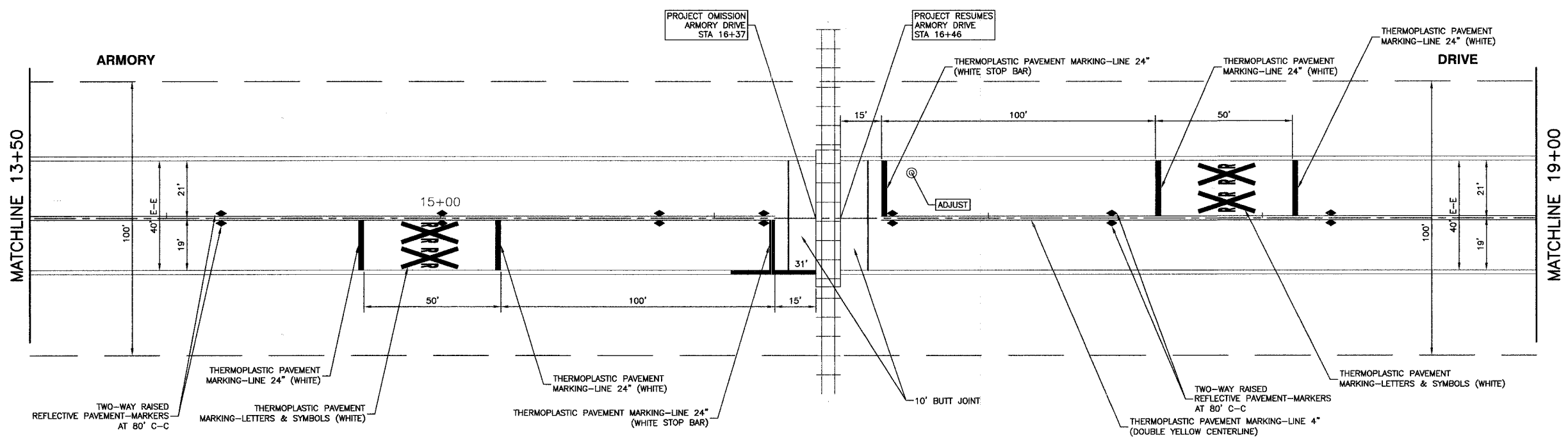
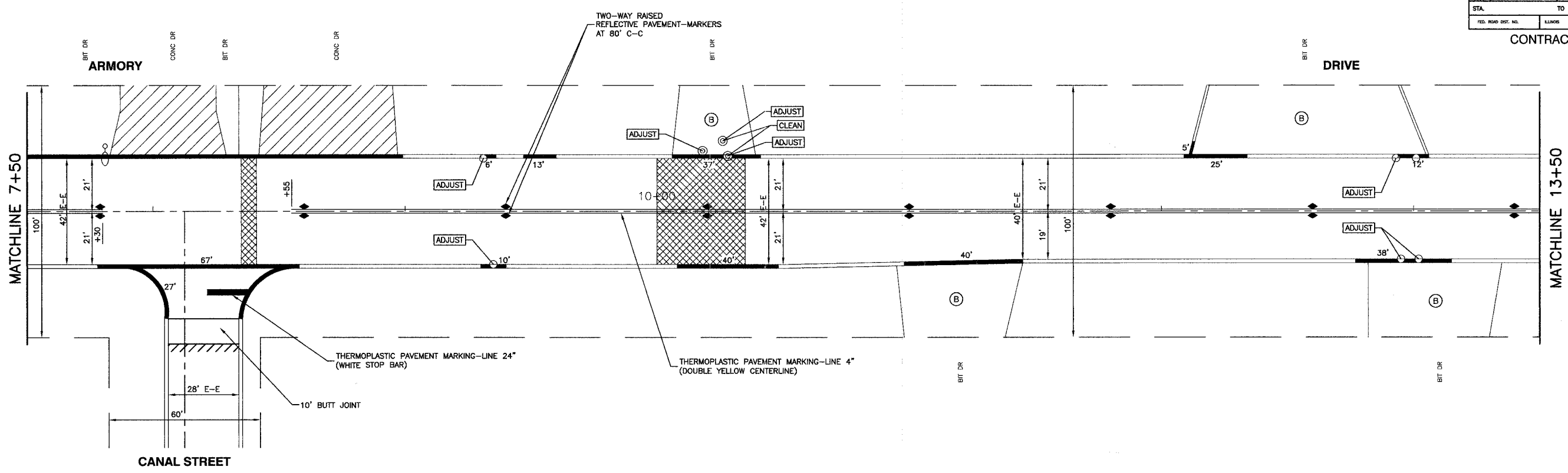
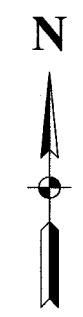
**ARMORY DRIVE
STREET RESURFACING &
PAVEMENT MARKING
STA 2+50 TO STA 7+50**

SCALE: VERT. 1"=20'
HORIZ. 1"=20'
DATE 02/23/07

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F. A. U. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1110	01-00050-00-RS	COOK	017	006
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT #83914



LEGEND

- CLASS D PATCHES, 8"
- DRIVEWAY REMOVAL AND REPLACEMENT
- BITUMINOUS DRIVEWAY REMOVAL AND REPLACEMENT
- COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT
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ILLINOIS DEPARTMENT OF TRANSPORTATION

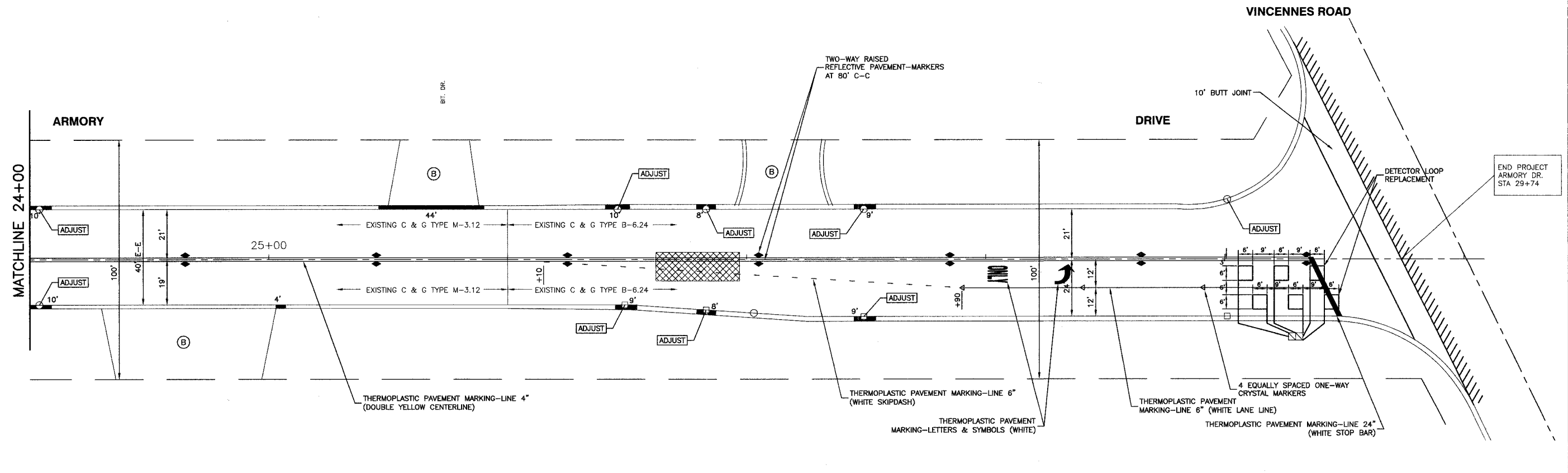
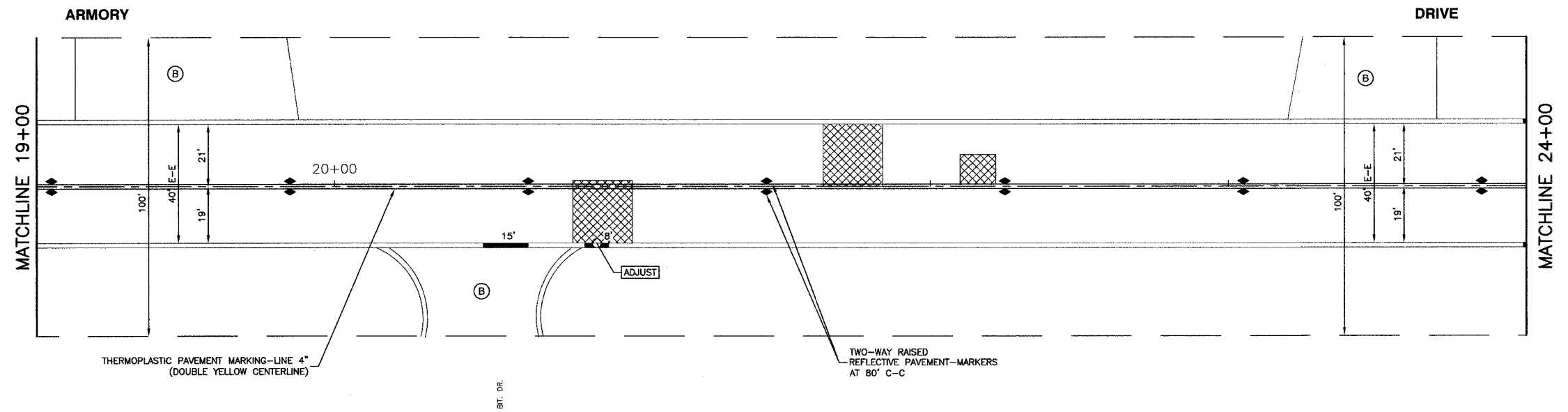
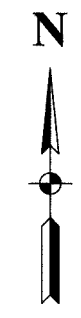
**ARMORY DRIVE
STREET RESURFACING &
PAVEMENT MARKING
STA 7+50 TO STA 19+00**

SCALE: VERT. 1"=20'
HORIZ. 1"=20'
DATE 02/23/07

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CONTRACT #83914



LEGEND

- CLASS D PATCHES, 8"
- DRIVEWAY REMOVAL AND REPLACEMENT
- BITUMINOUS DRIVEWAY REMOVAL AND REPLACEMENT
- COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT
- DETECTABLE WARNING

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ILLINOIS DEPARTMENT OF TRANSPORTATION

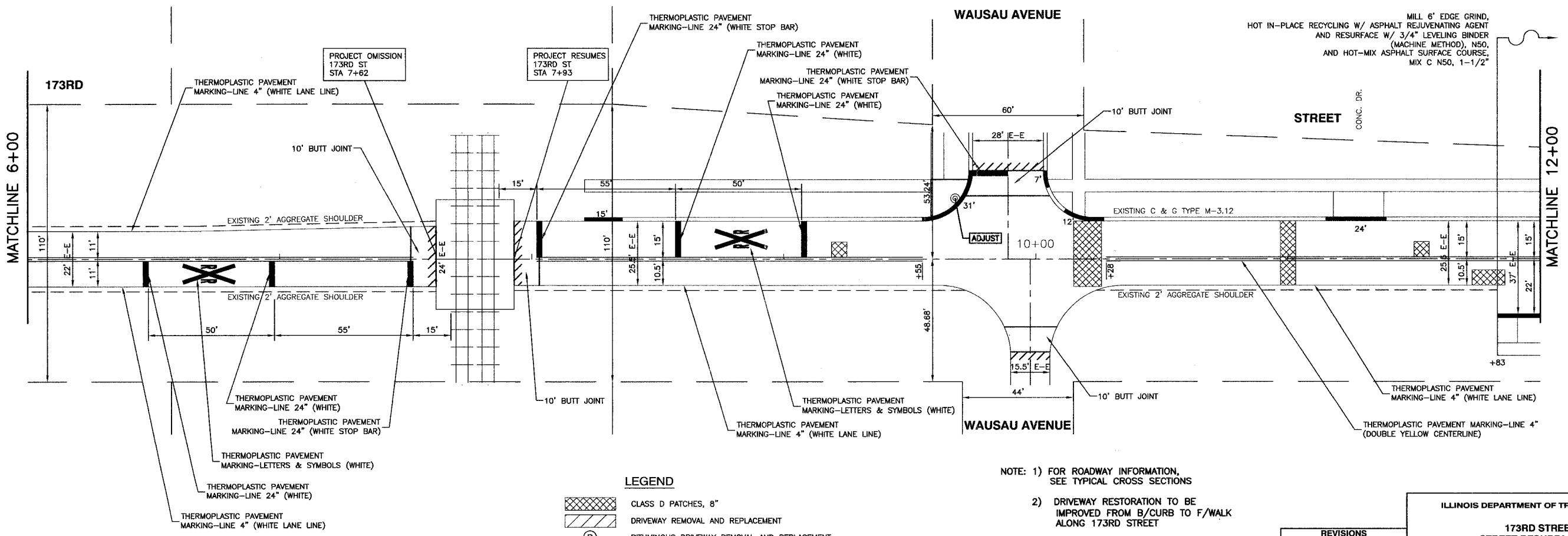
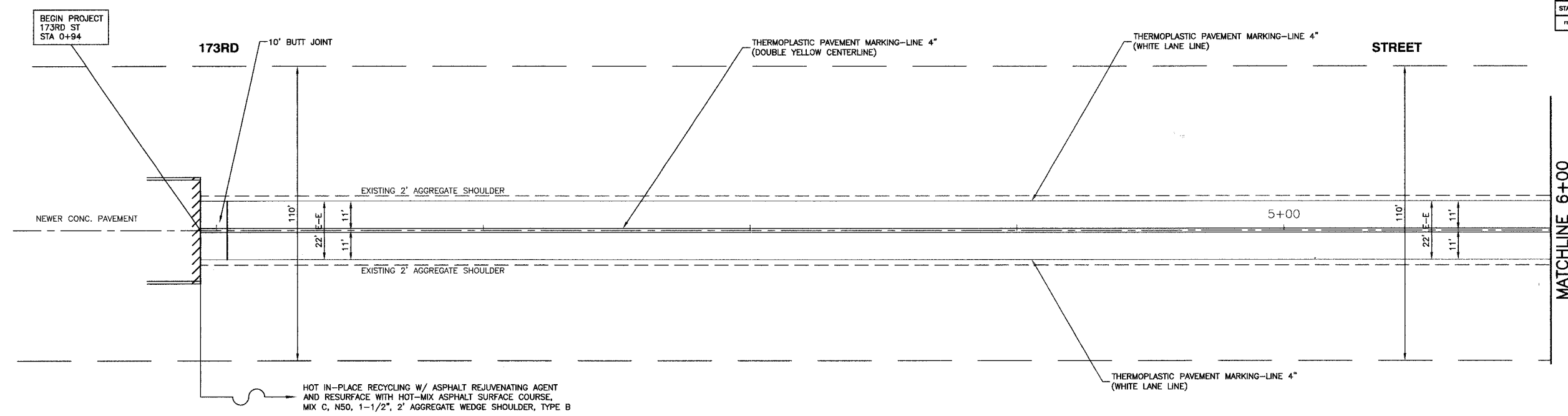
**ARMORY DRIVE
STREET RESURFACING &
PAVEMENT MARKING
STA 19+00 TO STA 29+74**

SCALE: VERT. 1"=20'
 HORIZ. 1"=20'
 DATE 02/23/07

DRAWN BY LTL/EDG
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F. A. U. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
173RD ST	01-00050-00-RS	COOK	017	008
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT #83914



LEGEND

	CLASS D PATCHES, 8"
	DRIVEWAY REMOVAL AND REPLACEMENT
	BITUMINOUS DRIVEWAY REMOVAL AND REPLACEMENT
	COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT
	DETECTABLE WARNING

- NOTE: 1) FOR ROADWAY INFORMATION, SEE TYPICAL CROSS SECTIONS
- 2) DRIVEWAY RESTORATION TO BE IMPROVED FROM B/CURB TO F/WALK ALONG 173RD STREET

REVISIONS	
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ILLINOIS DEPARTMENT OF TRANSPORTATION

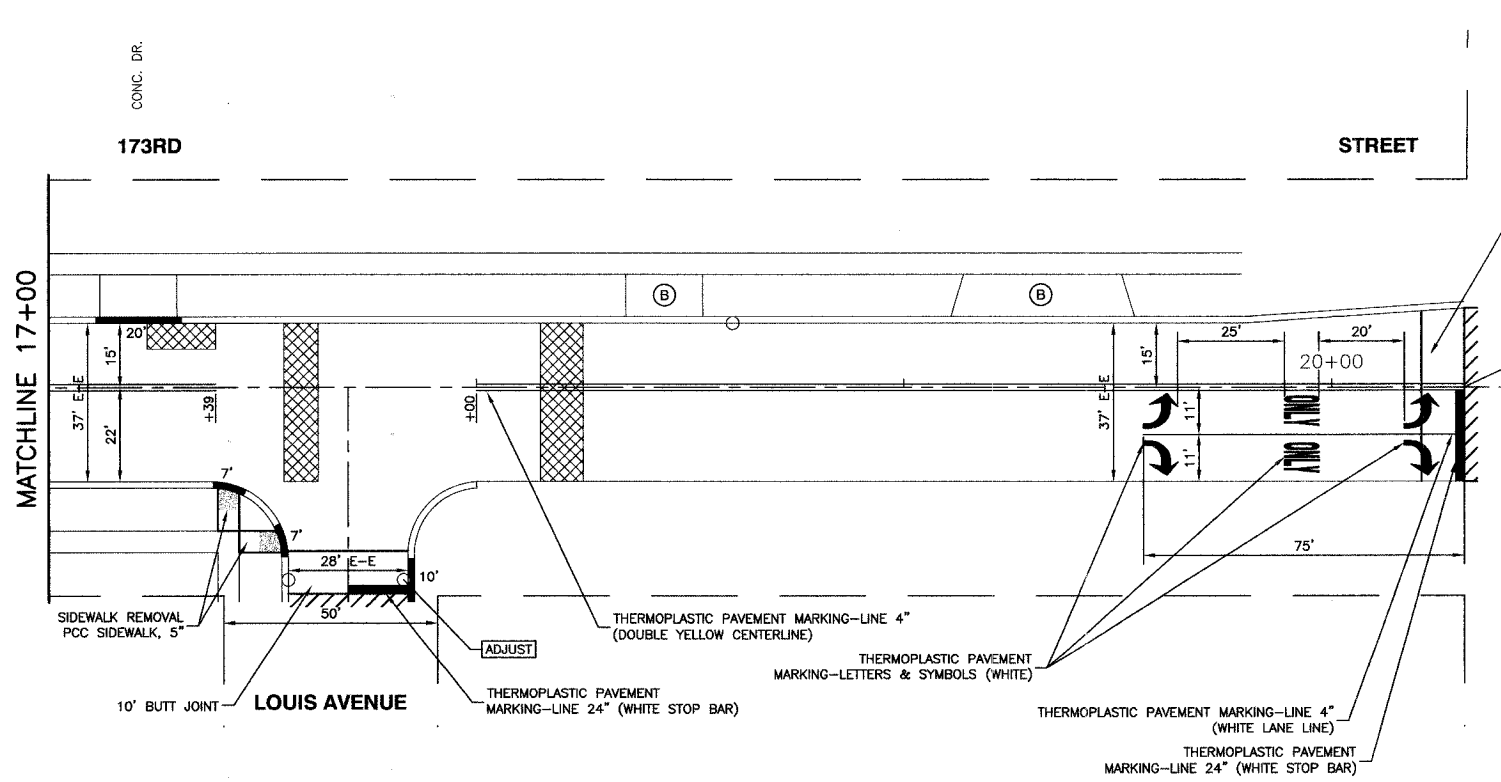
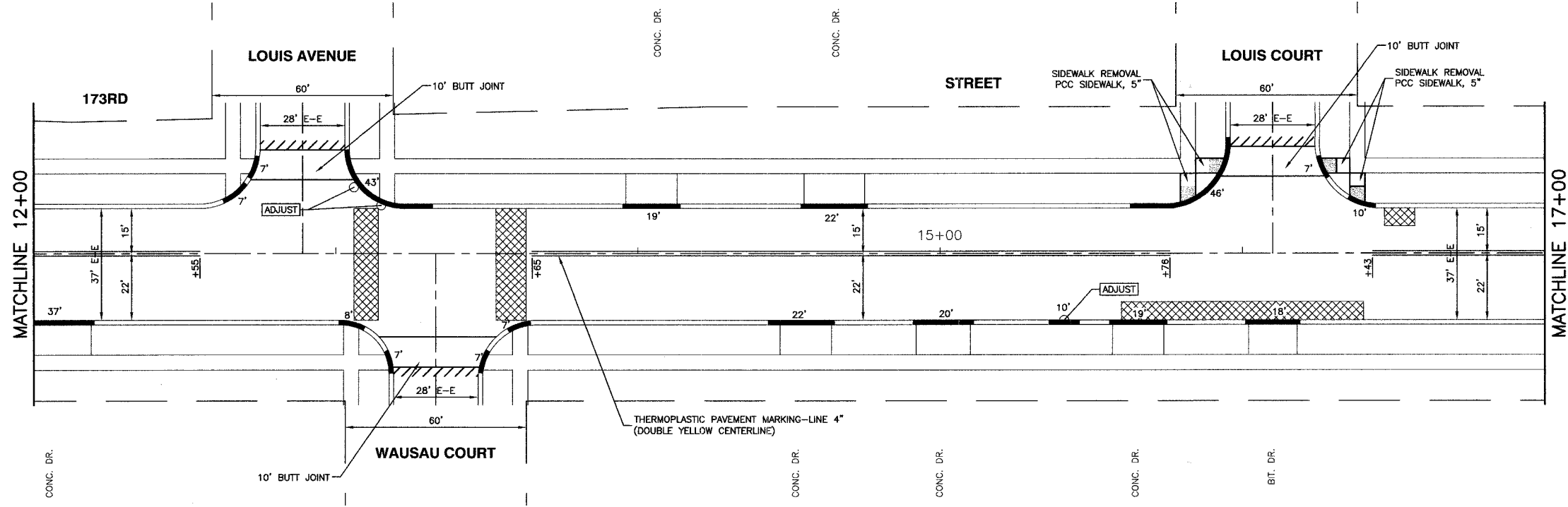
173RD STREET STREET RESURFACING & PAVEMENT MARKING STA 0+94 TO STA 12+00

SCALE: VERT. 1"=20'
HORIZ. 1"=20'
DATE 02/23/07

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F. A. U. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
173R	01-00050-00-RS	COOK	017	009
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT #83914



LEGEND

	CLASS D PATCHES, 8"
	DRIVEWAY REMOVAL AND REPLACEMENT
	BITUMINOUS DRIVEWAY REMOVAL AND REPLACEMENT
	COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT
	DETECTABLE WARNING

END PROJECT
173RD ST
STA 20+31

- NOTE: 1) FOR ROADWAY INFORMATION, SEE TYPICAL CROSS SECTIONS
- 2) DRIVEWAY RESTORATION TO BE IMPROVED FROM B/CURB TO F/WALK ALONG 173RD STREET

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

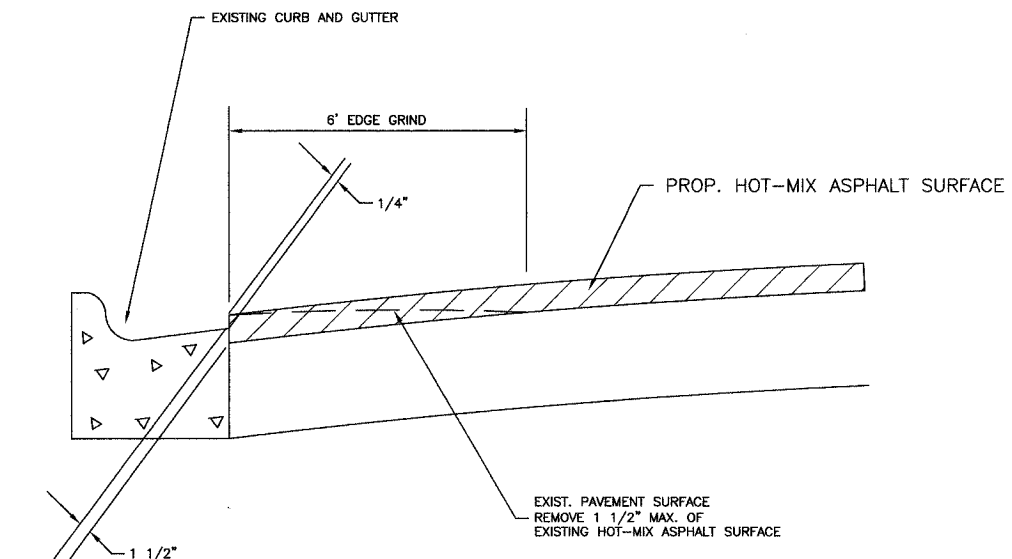
**173RD STREET
STREET RESURFACING &
PAVEMENT MARKING
STA 12+00 TO STA 20+31**

SCALE: VERT. 1"=20'
HORIZ. 1"=20'
DATE 02/23/07

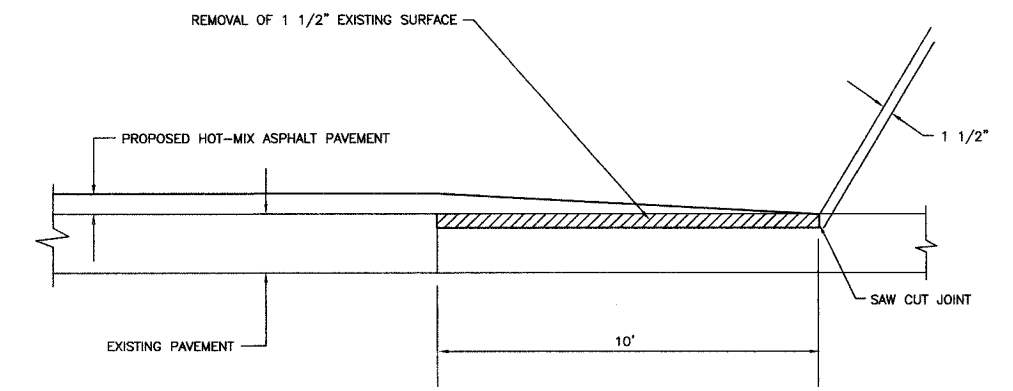
DRAWN BY LTL/EDG
CHECKED BY PB

F. A. U. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1710	01-00050-00-RS	COOK	017	010
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

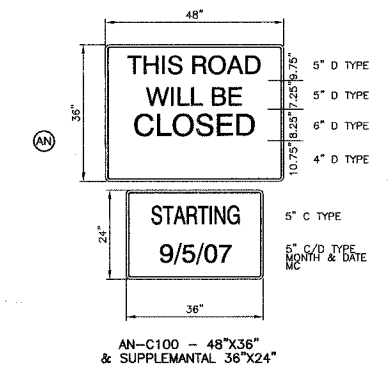
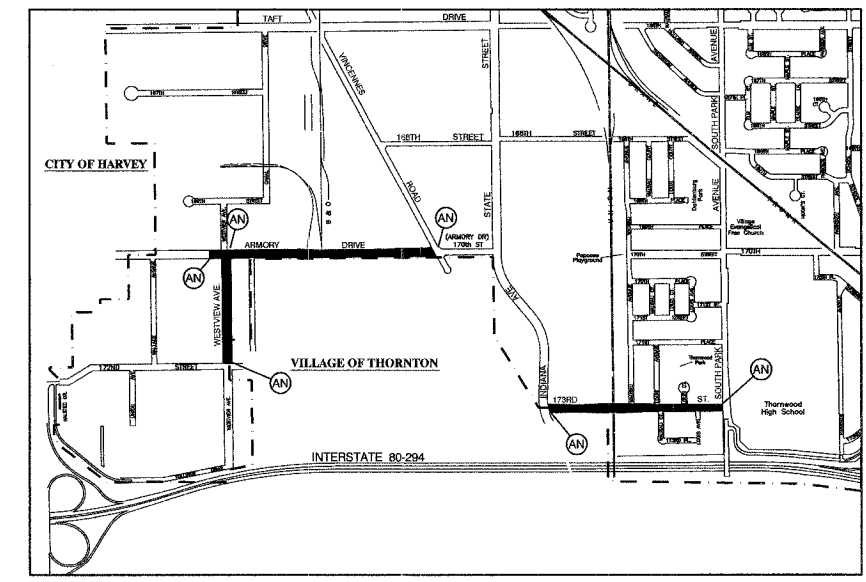
CONTRACT #83914



HOT-MIX ASPHALT SURFACE REMOVAL, SPECIAL



BUTT JOINT DETAIL



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

STREET RESURFACING CONSTRUCTION DETAILS

SCALE: VERT. NA
 HORIZ. NA
 DATE 02/23/07

DRAWN BY LTL/EDG
 CHECKED BY PB

F. A. U. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0110	01-00050-00-RS	COOK	017	011
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT #83914

VARIABLE - TO MEET EXISTING DIMENSIONS AND FIELD CONDITIONS (SEE NOTE ②)

PROP. CONC. CURB OR CURB AND GUTTER REPLACEMENT IN ACCORDANCE WITH STATE STANDARD 606001. (SEE NOTE ②)

SAW CUT FULL DEPTH - INCLUDED IN THE COST OF SIDEWALK, DRIVEWAY OR MEDIAN SURFACE REMOVAL PAY ITEM.

PROPOSED SIDEWALK, DRIVEWAY PAVEMENT, MEDIAN SURFACE OR SALT TOLERANT SOD AND TOP SOIL, 100 (4) SOD RESTORATION (SEE NOTE ①).

SUITABLE BACKFILL MATERIAL (INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT)

PROPOSED 20 (3/4) PREFORMED EXPANSION JOINT AT CONCRETE SIDEWALKS, DRIVEWAYS, AND MEDIANS. (INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT.)

UNSUITABLE SUB-BASE MATERIAL TO BE REMOVED, IF DIRECTED BY THE ENGINEER, SHALL BE REPLACED WITH EITHER SUB-BASE GRANULAR MATERIAL, TYPE B OR ADDITIONAL THICKNESS OF CONCRETE.

REMOVAL AND REPLACEMENT 100 (4) OR LESS IS INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT.

REMOVAL AND REPLACEMENT IN EXCESS OF 100 (4) WILL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS.

PROPOSED NO. 20 (NO. 6) EPOXY COATED TIE BARS 600 (24) LONG AT 600 (24) CENTERS WILL NOT BE PAID FOR SEPARATELY. DELETE EPOXY COATED TIE BARS IF EXISTING TIE BARS ARE USUABLE AS DETERMINED BY THE ENGINEER. (SEE NOTE ③).

BASIS OF PAYMENT:

THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER METER (FOOT) FOR "CURB REMOVAL AND REPLACEMENT" OR "COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT".

SEE STATE STANDARD 606001
5 (1/4) **

450 (18)
MAX.

75 (3) MIN.

EXISTING OR PROPOSED BITUMINOUS SURFACE (IF APPLICABLE)

EXISTING SIDEWALK, DRIVEWAY, MEDIAN SURFACE OR GROUND.

EXISTING CONCRETE PAVEMENT, CONCRETE BASE COURSE OR FLEXIBLE PAVEMENT

* 75 (3) MINIMUM FROM TOP AND BOTTOM OF THE CONCRETE PAVEMENT OR BASE COURSE.

** IF THE FINAL SURFACE OF THE PAVEMENT IS CONCRETE, THE GUTTER IS TO BE FLUSH WITH THE PAVEMENT.

NOTE: ① SIDEWALK, DRIVEWAY PAVEMENT OR MEDIAN SURFACE SHALL BE SIMILAR TO THE MATERIAL BEING REMOVED AND WILL BE PAID FOR SEPARATELY.

SALT TOLERANT SOD AND TOP SOIL, 100 (4) RESTORATION WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT.

② CURB OR CURB AND GUTTER REPLACEMENT SHALL MATCH THE SHAPE OF THE EXISTING CURB OR CURB AND GUTTER UNLESS OTHERWISE SPECIFIED.

③ FOR CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT ADJACENT TO FLEXIBLE PAVEMENT DELETE EPOXY COATED TIE BARS.

④ LONGITUDINAL BARS, IF ENCOUNTERED IN THE EXISTING CURB OR CURB AND GUTTER, ARE NOT TO BE REPLACED. CUTTING AND REMOVING LONGITUDINAL BARS SHALL BE INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT.

⑤ THE COST OF BITUMINOUS SURFACE REMOVAL IN THE EXISTING GUTTER FLAG SHALL BE INCLUDED IN THE COST OF THE CURB AND GUTTER REMOVAL AND REPLACEMENT.

⑥ THE REMOVAL AND REPLACEMENT OF THE EXISTING CURB OR CURB AND GUTTER SHALL BE DONE IN ACCORDANCE WITH THE APPLICABLE PORTIONS OF SECTION 440 AND 606 OF THE STANDARD SPECIFICATIONS.

⑦ THE LOCATIONS OF REMOVAL AND REPLACEMENT OF EXISTING CURB OR CURB AND GUTTER SHALL BE DETERMINED BY THE RESIDENT ENGINEER AT THE TIME OF CONSTRUCTION.

CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT

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

REVISIONS	
NAME	DATE
M. DE YONG	05/28/91
A. HOUSEH	03/11/94
R. SHAH	02/24/95
R. SHAH	03/02/95
R. SHAH	08/19/96
R. SHAH	09/12/96
R. SHAH	09/19/96
R. SHAH	10/03/96
A. ABBAS	03/21/97
M. GOMEZ	01/22/01

ILLINOIS DEPARTMENT OF TRANSPORTATION
CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT

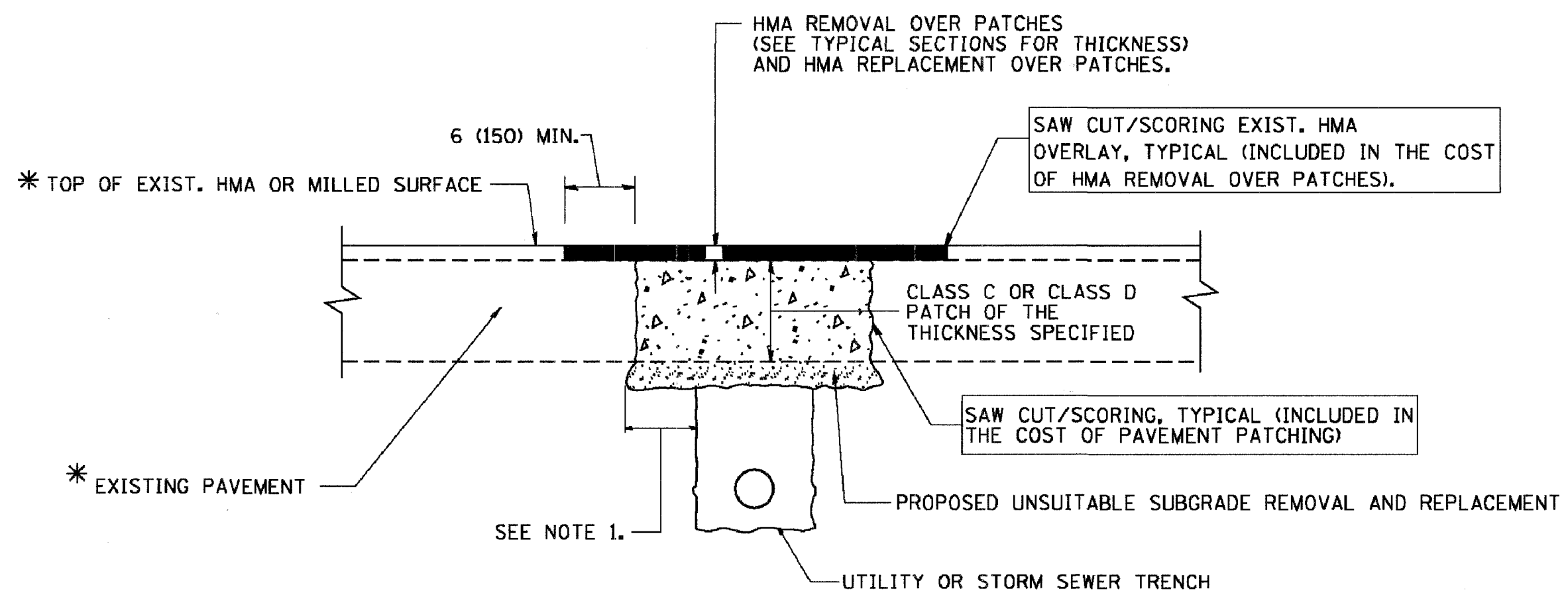
SCALE: NONE
DATE 03/26/2003

DRAWN BY
CHECKED BY
BD600-06 (BD-24)

REVISION DATE: 12/06/88

F. A. U. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1010	01-00050-00-RS	COOK	017	012
STA.	TO STA.			
FED. ROAD DIST. NO.	BLANKS	FED. AID PROJECT		

CONTRACT #83914



* SEE TYPICAL SECTIONS FOR THICKNESS AND MATERIALS

NOTES:

1. THE WIDTH OF THE FULL DEPTH PATCH OVER A TRENCH SHALL BE 12 (300) WIDER ON EACH SIDE OF THE TRENCH.
2. FOR METHOD OF MEASUREMENT AND BASIS OF PAYMENT, SEE RECURRING SPECIAL PROVISION "PATCHING WITH HOT-MIX ASPHALT OVERLAY REMOVAL".

SEQUENCE OF CONSTRUCTION

1. REMOVE THE EXISTING HMA MATERIAL OVER THE AREA TO BE PATCHED.
2. REMOVE AND REPLACE FULL DEPTH PATCHES
3. REPLACE HMA MATERIAL OVER THE AREA TO BE PATCHED.

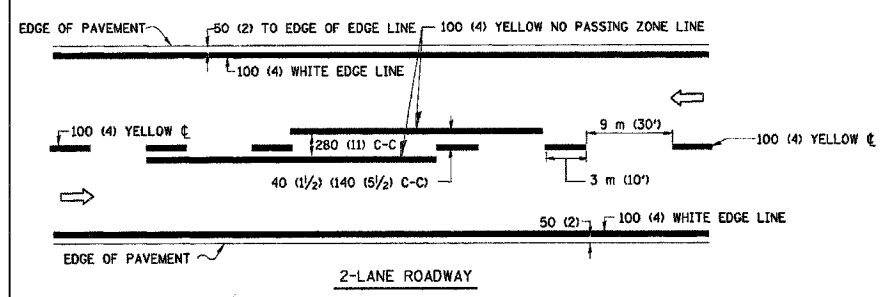
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

REVISIONS	DATE
R. SHAM	10/25/94
R. SHAM	01/14/95
R. SHAM	03/23/95
R. SHAM	04/24/95
A. HOUSEH	03/15/96
A. ABBAS	03/21/97
A. ABBAS	01/20/98
ART ABBAS	04/27/98
R. BORO	01/01/01

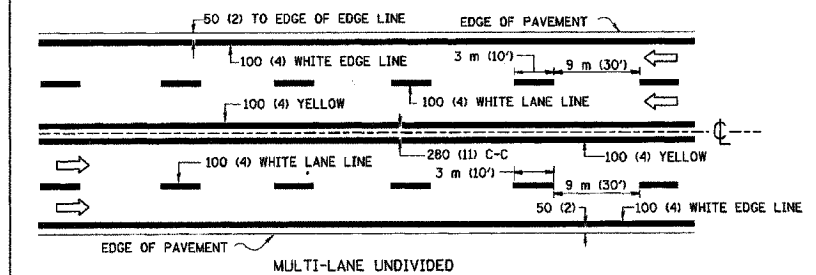
ILLINOIS DEPARTMENT OF TRANSPORTATION
PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT
 SCALE: VERT. NONE
 HORIZ. NONE
 PLOT DATE: 1/19/2007
 DRAWN BY
 CHECKED BY
 BD400-04 (BD-22)
 REVISION DATE: 01/01/07

F. A. D. SHEET NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
01	01-00050-00-RS	COOK	017	013
STA.	TO STA.			
FED. ROAD DIST. NO.	ALPINE	FED. AID PROJECT		

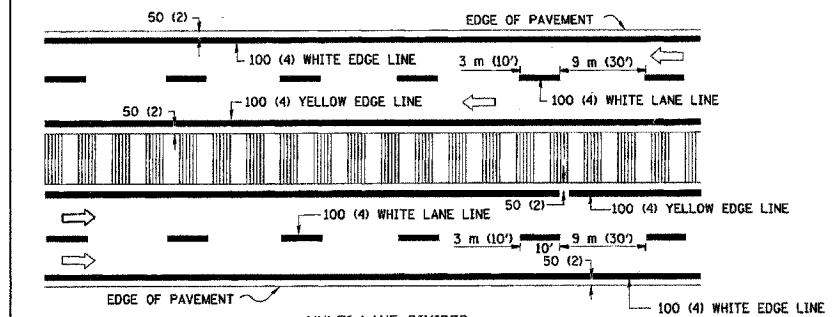
CONTRACT #83914



2-LANE ROADWAY



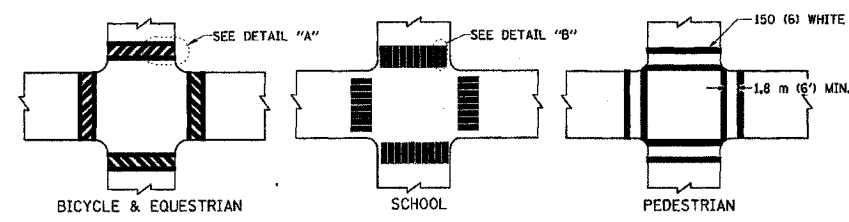
MULTI-LANE UNDIVIDED



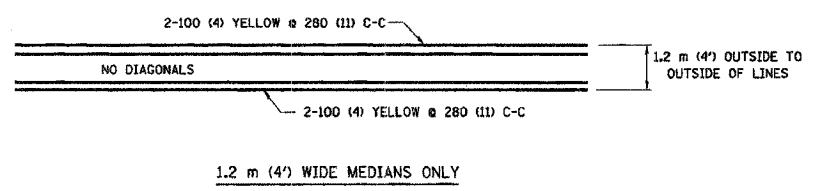
MULTI-LANE DIVIDED WITH MOUNTABLE MEDIAN

NOTE: MEDIANS WITH BARRIER CURB DO NOT REQUIRE AN EDGE LINE

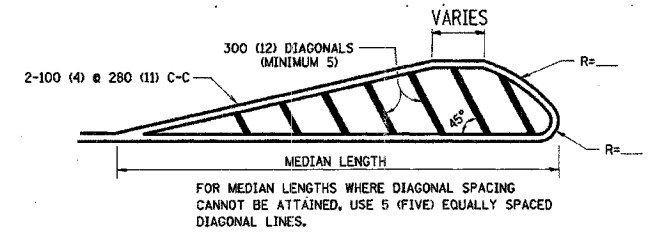
TYPICAL LANE AND EDGE LINE MARKING



TYPICAL CROSSWALK MARKING



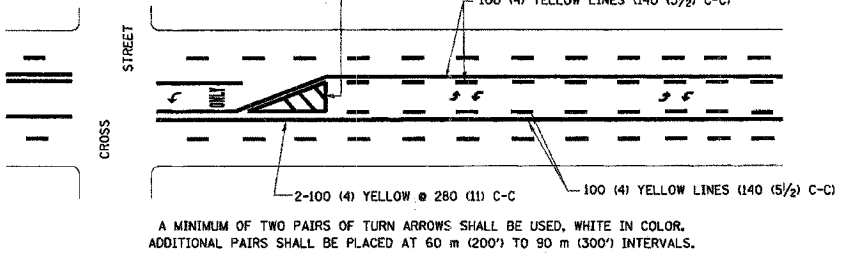
1.2 m (4') WIDE MEDIANS ONLY



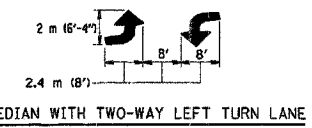
MEDIANS OVER 1.2 m (4') WIDE

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

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 70 km/h (45 MPH))
45 m (150') C-C (MORE THAN 70 km/h (45 MPH))

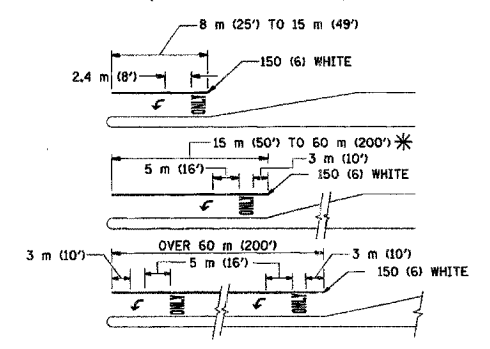


A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 60 m (200') TO 90 m (300') INTERVALS.



MEDIAN WITH TWO-WAY LEFT TURN LANE

TYPICAL PAINTED MEDIAN MARKING

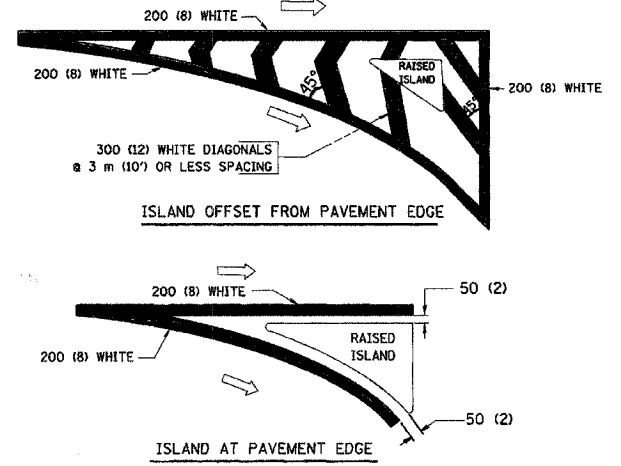


FULL SIZE LETTERS 2.4 m (8') AND ARROWS SHALL BE USED.
AREA = 1.5 m² (15.6 SQ. FT.) AREA = 1.9 m² (20.8 SQ. FT.)

* 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



ISLAND OFFSET FROM PAVEMENT EDGE

ISLAND AT PAVEMENT EDGE

TYPICAL ISLAND MARKING

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 UNDIVIDED PAVEMENT	2 @ 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 (5 1/2) C-C FROM SKIP-DASH CENTERLINE 280 (11) C-C OMIT 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 @ 100 (4) EACH DIRECTION 2.4 m (8') LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	3 m (10') LINE WITH 9 m (30') SPACE FOR SKIP-DASH; 140 (5 1/2) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE 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 600 (2') APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	600 (24)	SOLID	WHITE	PLACE 1.2 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 @ 100 (4) WITH 300 (12) DIAGONALS @ 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 T80001 AREA OF: "R"=0.33m ² (3.6 SQ. FT.) EACH "X"=5.0 m ² (54.0 SQ. FT.)
SHOULDER DIAGONALS	300 (12) @ 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 (OVER 70 km/h (45 MPH))

FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STATE STANDARD T80001.

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

ILLINOIS DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
TYPICAL PAVEMENT
MARKINGS

REVISIONS	
NAME	DATE
EVERS	03-19-90
T. RAMMACHER	10-27-94
ALEX HOUSEH	10-09-96
ALEX HOUSEH	10-17-96
T. RAMMACHER	01-06-00

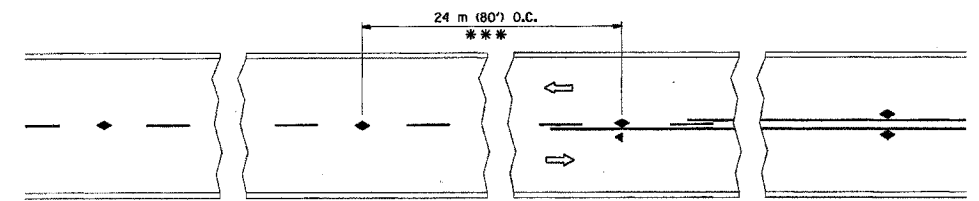
SCALE: NONE
DATE 03/26/2003

DRAWN BY CADD
CHECKED BY

TC-13
REVISION DATE: 01/06/00

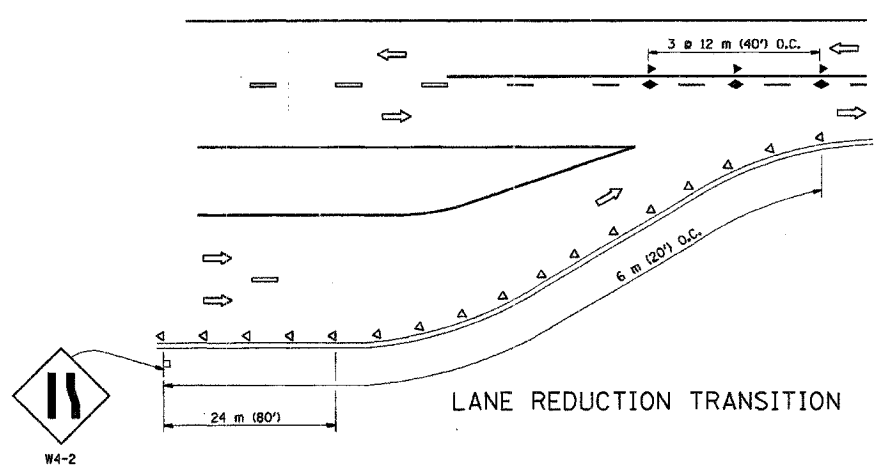
F. A. L. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1110	01-00050-00-RS	COOK	017	014
STA.	TO STA.			
FED. ROAD DIST. NO.	ALIGNED	FED. AID PROJECT		

CONTRACT #83914

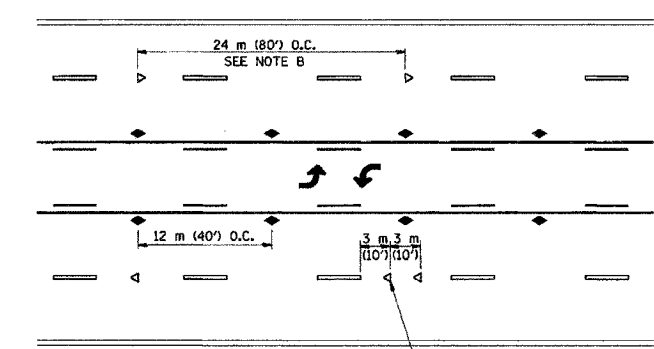


*** REDUCE TO 12 m (40') O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 70 km/h (45 M.P.H.) OR LESS.

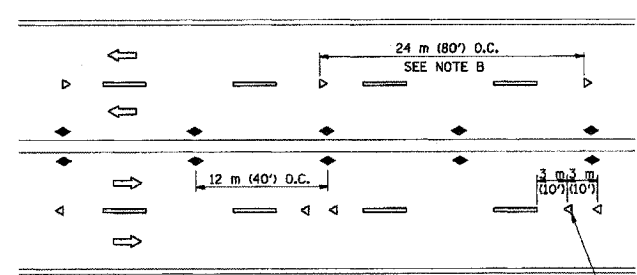
TWO-LANE/TWO-WAY



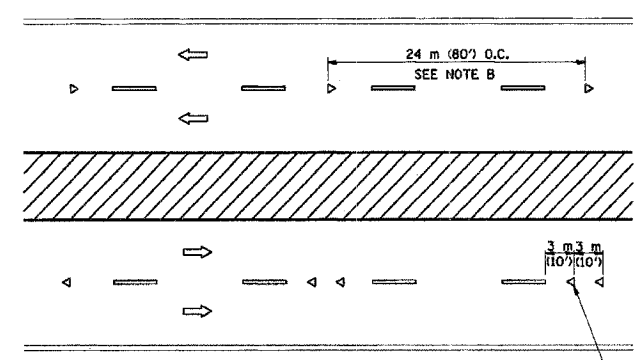
LANE REDUCTION TRANSITION



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 50 TO 75 (2 TO 3) TOWARD TRAFFIC AS SHOWN.
3. MARKERS THROUGH TANGENTS LESS THAN 150 m (500') IN LENGTH BETWEEN CURVES SHALL BE INSTALLED AT THE LESSER OF THE TWO CURVE SPACINGS.

SYMBOLS

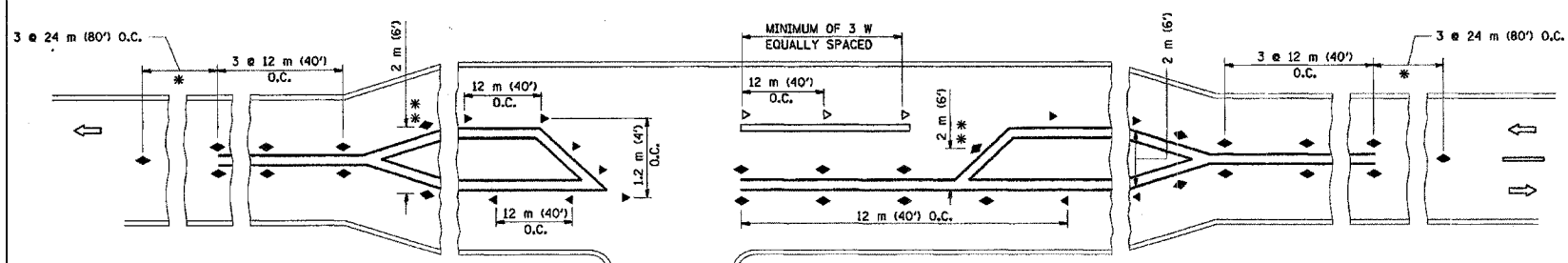
- YELLOW STRIPE
- WHITE STRIPE
- ◀ ONE-WAY AMBER MARKER
- ◁ ONE-WAY CRYSTAL MARKER (W/O)
- ◆ TWO-WAY AMBER MARKER

LANE MARKER NOTES

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

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.
4. 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

* SEE TWO-LANE/TWO-WAY WHERE MARKERS CONTINUE
 ** WHERE THE MEDIAN WIDTH IS 2 m (6') OR LESS USE TWO-WAY MARKERS.

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

ILLINOIS DEPARTMENT OF TRANSPORTATION

TYPICAL APPLICATIONS
 RAISED REFLECTIVE PAVEMENT MARKERS
 (SNOW-PLOW RESISTANT)

REVISIONS	
NAME	DATE
T. RAMMACHER	09-19-94
T. RAMMACHER	03-12-99
T. RAMMACHER	01-06-00

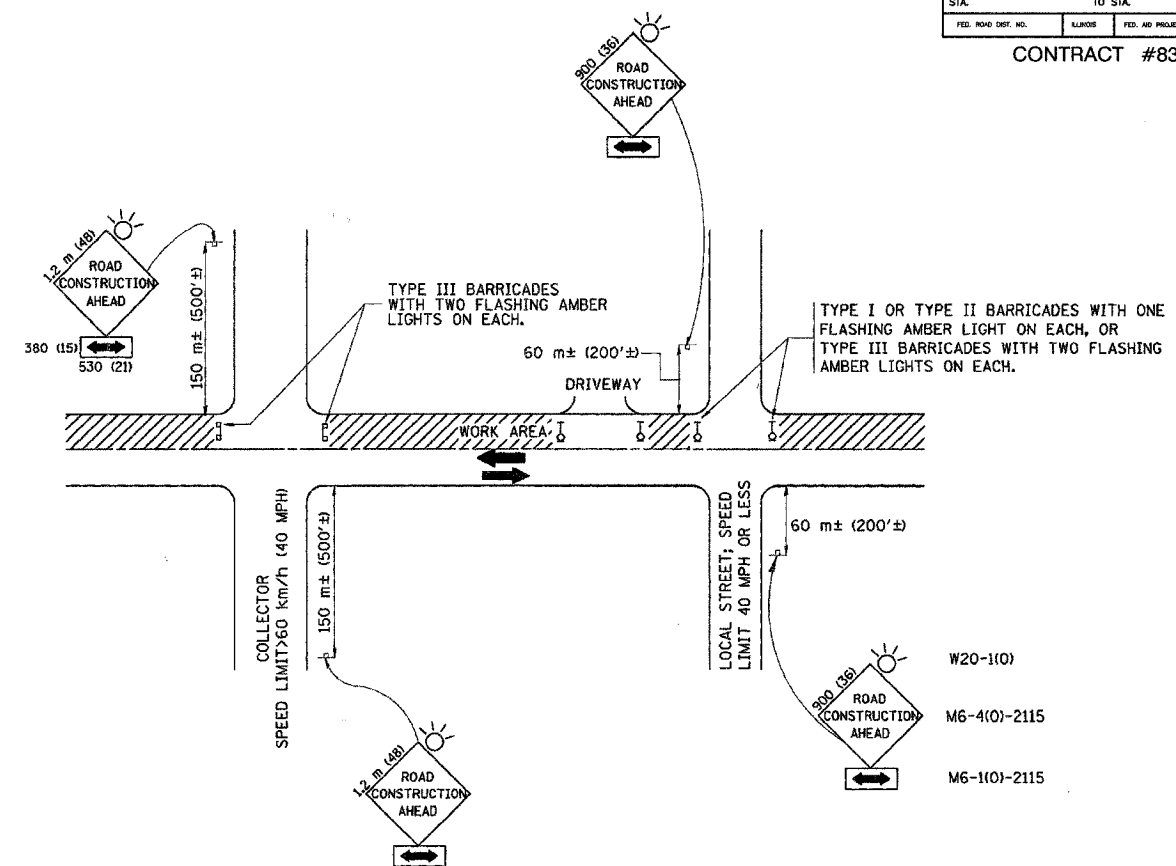
SCALE: NONE
 DATE: 03/26/2003

DRAWN BY CADD
 CHECKED BY

TC-11
 REVISION DATE: 01/06/00

F. A. U. SHEET	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
01	01-00050-00-RS	COOK	017	015
STA.	TO STA.			
FED. ROAD DIST. NO.	BLANDS	FED. AID PROJECT		

CONTRACT #83914



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

NOTES:

- A. FOR NO LANE RESTRICTION ON THE SIDE ROAD OR DRIVEWAYS
- 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:
 - ONE ROAD CONSTRUCTION AHEAD SIGN 900x900 (36x36) WITH A FLASHER AND FLAG MOUNTED ON IT APPROXIMATELY 60 m (200') IN ADVANCE OF THE MAIN ROUTE.
 - 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:
 - ONE ROAD CONSTRUCTION AHEAD SIGN 1.2 m x 1.2 m (48x48) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 150 m (500') IN ADVANCE OF THE MAIN ROUTE.
 - 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.
 - 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 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.

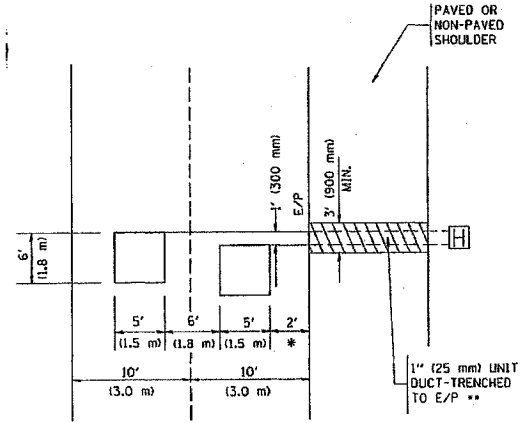
REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS
NAME	DATE	
LHA	6/89	SCALE: VERT. HORIZ. DATE 03/26/2003
T. RAMMACHER	09/08/94	
J. OBERLE	10/18/95	
A. HOUSEH	03/06/96	
A. HOUSEH	10/15/96	
T. RAMMACHER	01/06/00	DRAWN BY CHECKED BY TC-10
		REVISION DATE: 01/06/00

F. A. U. RE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
01-00050-00-RS	01-00050-00-RS	COOK	017	016
STA.	TO STA.			
FED. ROAD DIST. NO.	LANDS	FED. AID PROJECT		

CONTRACT #83914

LOOPS NEXT TO SHOULDERS

PROVIDE A PAVEMENT REPLACEMENT NOTE WHICH SHOULD EQUAL 3' (900 mm) X WIDTH OF PAVED SHOULDER.

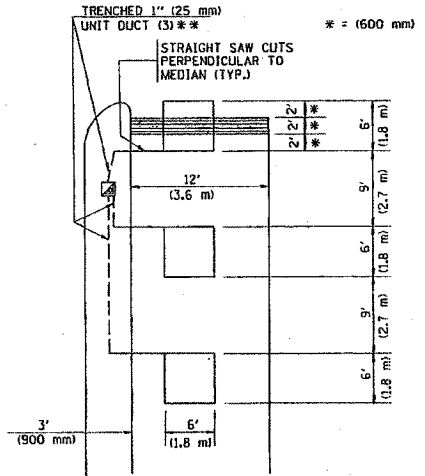


* = (600 mm)
 ** UNIT DUCT IS TO BE SHOWN ON PLAN SHEETS BUT SHALL NOT BE INCLUDED IN THE PAY ITEMS.

LEFT TURN LANES WITH MEDIANS
 VOLUME DENSITY ("FAR OUT" DETECTION)
 ON SAME APPROACH

(PROTECTED / PERMITTED LEFT TURN PHASING)

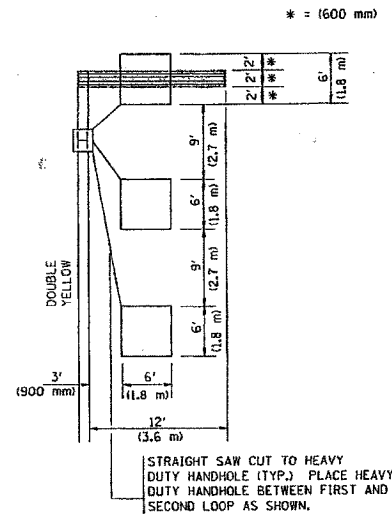
HANDHOLE LOCATION MAY VARY DEPENDING ON GEOMETRICS AND DESIGN OF TRAFFIC SIGNALS. HEAVY-DUTY HANDHOLES TO BE USED WHEN THE MEDIAN IS MOUNTABLE. REFER TO STANDARD S14001 TO ENSURE THAT HANDHOLE FITS IN MEDIAN.



** UNIT DUCT IS TO BE SHOWN ON PLAN SHEETS BUT SHALL NOT BE INCLUDED IN THE PAY ITEMS.
 NOTE: DUAL LEFT TURNS NOT SHOWN REFER TO PLAN SHEET FOR DETECTOR LOOP REPLACEMENT

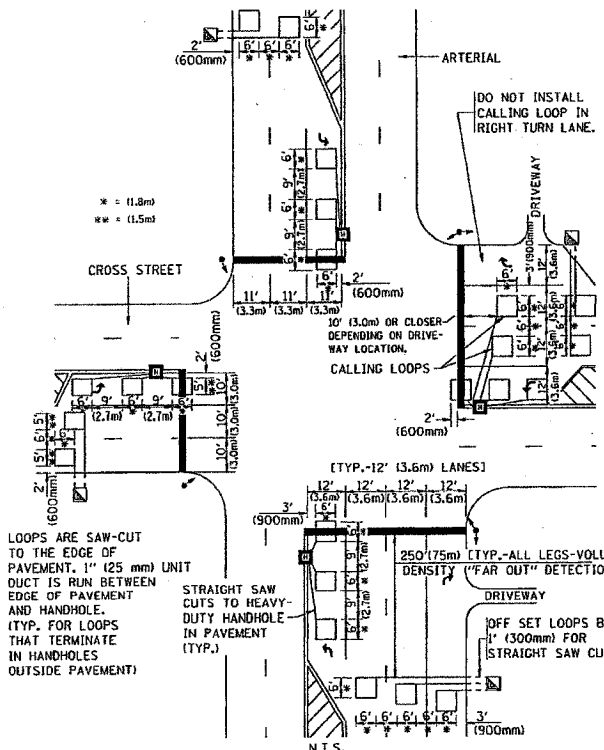
LEFT TURN LANES WITHOUT MEDIANS
 VOLUME DENSITY ("FAR OUT" DETECTION)
 ON SAME APPROACH

(PROTECTED / PERMITTED LEFT TURN PHASING)



NOTE: DUAL LEFT TURNS NOT SHOWN REFER TO PLAN SHEET FOR DETECTOR LOOP REPLACEMENT

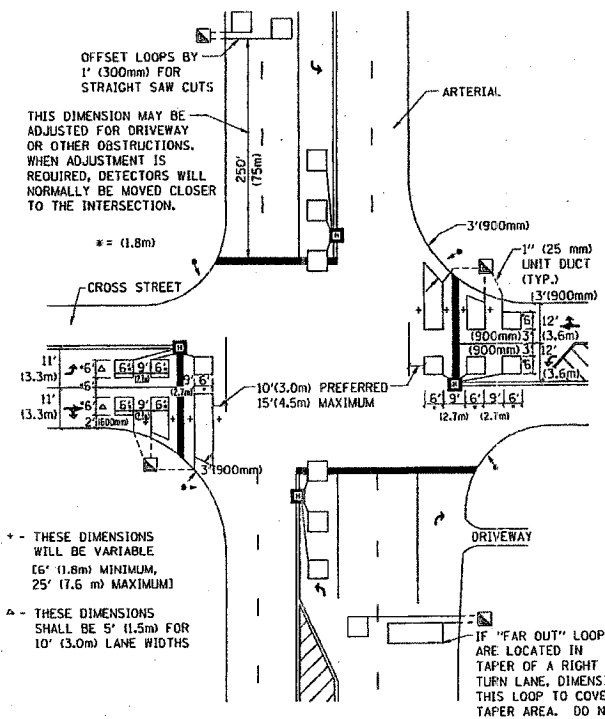
ARTERIAL-VOLUME DENSITY ("FAR OUT" DETECTION)
 CROSS STREET-VOLUME DENSITY ("FAR OUT" DETECTION)



LOOPS ARE SAW-CUT TO THE EDGE OF PAVEMENT. 1" (25 mm) UNIT DUCT IS RUN BETWEEN EDGE OF PAVEMENT AND HANDHOLE. (TYP. FOR LOOPS THAT TERMINATE IN HANDHOLES OUTSIDE PAVEMENT)
 STRAIGHT SAW CUTS TO HEAVY-DUTY HANDHOLE IN PAVEMENT (TYP.)
 OFF SET LOOPS BY 1' (300mm) FOR STRAIGHT SAW CUTS.
 N.T.S.

DETAIL 1
 N.T.S.

ARTERIAL-VOLUME DENSITY ("FAR OUT" DETECTION)
 CROSS STREET-NON VOLUME DENSITY ("UPTIGHT" PRESENCE DETECTION)



OFF SET LOOPS BY 1' (300mm) FOR STRAIGHT SAW CUTS
 THIS DIMENSION MAY BE ADJUSTED FOR DRIVEWAY OR OTHER OBSTRUCTIONS. WHEN ADJUSTMENT IS REQUIRED, DETECTORS WILL NORMALLY BE MOVED CLOSER TO THE INTERSECTION.
 * - THESE DIMENSIONS WILL BE VARIABLE. 6' (1.8m) MINIMUM, 25' (7.6 m) MAXIMUM
 - THESE DIMENSIONS SHALL BE 5' (1.5m) FOR 10' (3.0m) LANE WIDTHS
 IF "FAR OUT" LOOPS ARE LOCATED IN TAPER OF A RIGHT TURN LANE, DIMENSION THIS LOOP TO COVER TAPER AREA. DO NOT COVER THE LEFT TURN LANE OR LEFT TURN LANE TAPER.
 N.T.S.

DETAIL 2
 N.T.S.

NOTES:

- VEHICLES LOOP DETECTORS
- * ALL LEAD IN CABLE SHALL BE TWO CONDUCTOR NO. 14 TWISTED, SHIELDED.
- * EACH DETECTOR LOOP SHALL HAVE ITS OWN SAW CUT FROM THE LOOP TO THE EDGE OF PAVEMENT OR TO A HANDHOLE IN THE PAVEMENT.
- * EACH DETECTOR LOOP SHALL HAVE ITS OWN ONE INCH (25 mm) UNIT DUCT BETWEEN THE EDGE OF PAVEMENT AND THE FIRST HANDHOLE OR JUNCTION BOX. EACH UNIT DUCT RUN SHALL BE SHOWN ON THE PLANS BY THE DESIGNER, BUT SHALL NOT BE PAID FOR SEPARATELY. THIS ITEM IS INCIDENTAL TO THE PAY ITEM FOR DETECTOR LOOPS.
- * ONE DIMENSION OF ALL DETECTOR LOOPS SHALL BE SIX FEET (1.8 m)
- * EACH LANE OF NON-LOCKING, PRESENCE DETECTION AND EACH LANE OF A DOUBLE LEFT TURN LANE REQUIRES A SEPARATE INDUCTIVE LOOP DETECTOR AND LEAD IN CABLE.
- * WHEN NON-LOCKING, PRESENCE DETECTION IS USED, MORE THAN ONE LOOP PER LANE IS REQUIRED BEHIND THE STOP BAR (i.e. 1-1/2, 1-3/4, 2).
- * WHEN SYSTEM LOOPS ARE REQUIRED ON AN APPROACH OF AN INTERSECTION, THE LOOPS USED FOR VOLUME DENSITY AND INTERSECTION TIMING SHALL ALSO BE USED AS SYSTEM DETECTORS. EACH ONE OF THESE TYPE OF LOOPS REQUIRES A SEPARATE TWO CONDUCTOR NO. 14 TWISTED SHIELDED CABLE AND A SEPARATE INDUCTIVE LOOP DETECTOR WHEN NEW CONTROLLERS ARE UTILIZED. THE DESIGNER SHALL LABEL THESE TYPES OF LOOPS AS "INTERSECTION AND SAMPLING (SYSTEM) DETECTORS" ON THE SIGNAL LAYOUT, THE INTERCONNECT PLAN AND THE SYSTEM CABLE PLAN. WHEN AN EXISTING CONTROLLER IS UTILIZED FOR THIS TYPE OF DETECTION, THE PAY ITEM "INDUCTIVE LOOP DETECTOR WITH SYSTEM OUTPUT" SHOULD BE USED.

PLACEMENT OF DETECTORS

THE FOLLOWING FIGURES REPRESENT THE MOST COMMON DETECTOR LOOP LOCATIONS AND SIZES. ADJUSTMENTS WILL BE NECESSARY FOR SPECIFIC GEOMETRIC CONSIDERATIONS.

LOCATIONS AND DIMENSIONS OF DETECTOR LOOPS ARE REQUIRED ON ALL SIGNAL LAYOUT PLAN SHEETS.

"FAR OUT" DETECTION REFERS TO LOCKING, PRESENCE TYPE DETECTION LOCATED IN THRU LANES, RIGHT TURN LANES, AND RIGHT TURN LANE TAPER AREAS (IF APPLICABLE), USUALLY 250' (75 m) IN ADVANCE OF STOP BARS. "UPTIGHT" DETECTION REFERS TO NON-LOCKING PRESENCE TYPE DETECTION LOCATED IN ALL LANES AND 10'-15' (3.0 m-4.5 m) BEHIND THE CROSSING STREET'S EDGE OF PAVEMENT EXTENDED.

NOTE:

ALL DETAILS AND NOTES SHOWN ARE FROM THE I.D.O.T. DISTRICT 1 TRAFFIC SIGNAL DESIGN GUIDELINES DATED JANUARY 1995

THIS DRAWING HAS BEEN PREPARED TO ASSIST THE RESIDENT ENGINEER FOR ALL ROADWAY RESURFACING OR S.M.A.R.T. PROJECTS WHERE THE DIMENSIONS ARE NOT SHOWN ON THE PLANS AND THE FINAL LOCATIONS FOR CROSSWALKS OR STOP BARS ARE NOT DETERMINED.

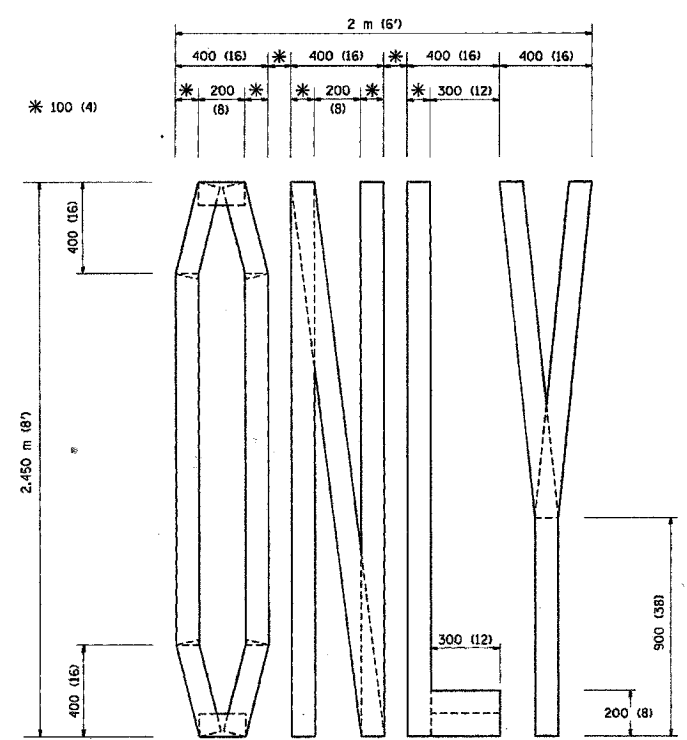
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 DISTRICT 1
 DETECTOR LOOP
 INSTALLATION DETAILS
 FOR ROADWAY RESURFACING

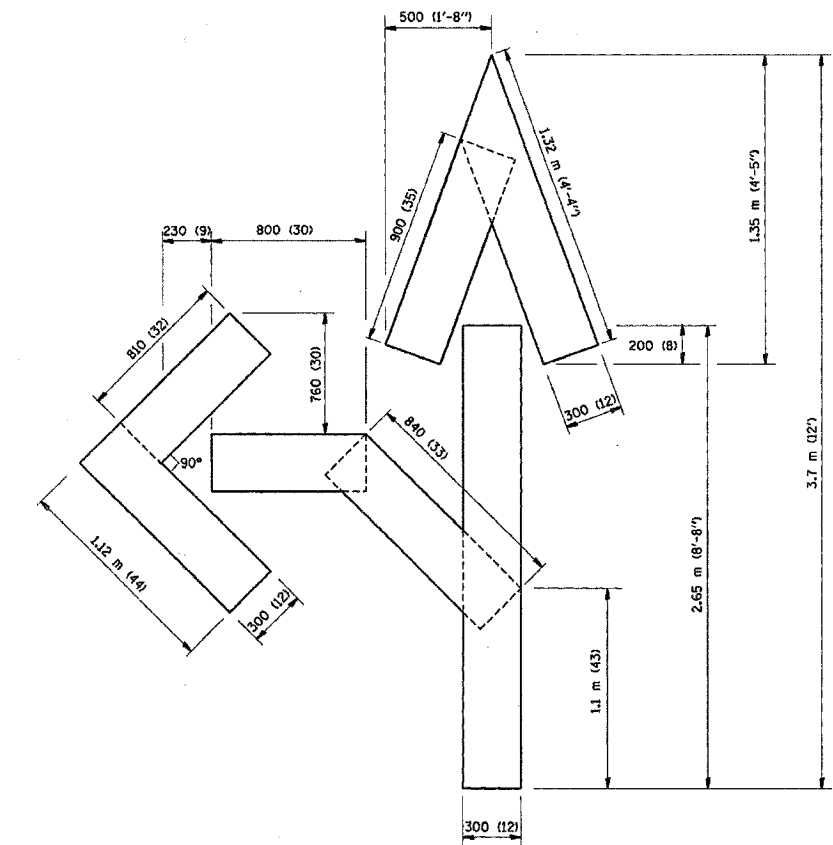
SCALE: NONE
 DATE 10/18/2002
 DRAWN BY CAD0
 DESIGNED BY
 CHECKED BY R.J.F.
 TSDT
 REVISION DATE:

F. A. U. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
01-00050-00-RS	01-00050-00-RS	COOK	017	017
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

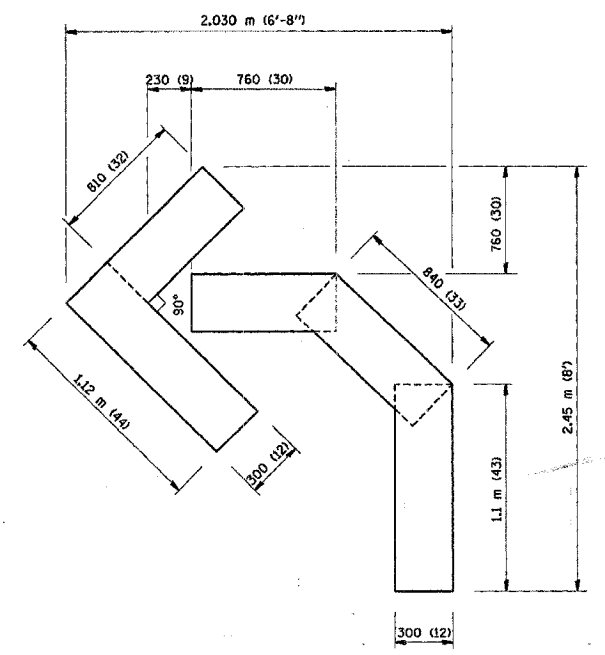
CONTRACT #83914



QUANTITY
 100 (4) LINE = 19.7 m (64.1 ft.)
 1.97 sq. m (21.1 sq. ft.)



QUANTITY
 100 (4) LINE = 25.3 m (82.5 ft.)
 2.53 sq. m (27.5 sq. ft.)



QUANTITY
 100 (4) LINE = 13.9 m (45.5 ft.)
 1.39 sq. m (15.2 sq. ft.)

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

ILLINOIS DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING
 LETTERS AND SYMBOLS
 FOR TRAFFIC STAGING

REVISIONS	
NAME	DATE
T. RAMMACHER	09/18/94
N. OBERLE	06/01/96
T. RAMMACHER	06/05/96
T. RAMMACHER	11/04/97
T. RAMMACHER	03/02/98
E. GOMEZ	08/28/00

SCALE: NONE
 DATE 03/26/2003

DRAWN BY CADD
 CHECKED BY
 TC-16

REVISION DATE: 08/28/00