

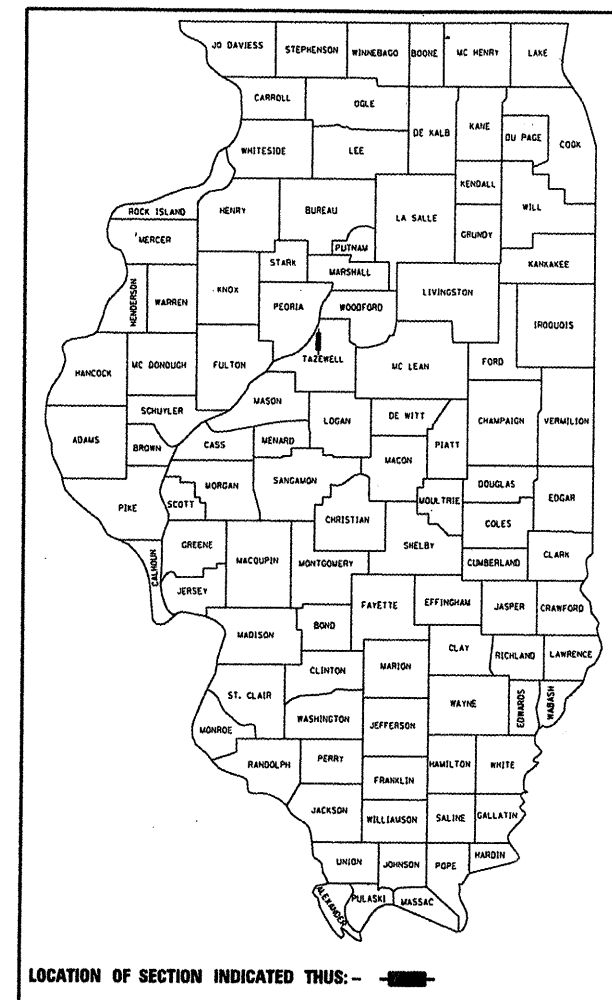
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

PLANS FOR PROPOSED  
AMERICAN RECOVERY  
AND INVESTMENT ACT

PROJECT ARA-5093 (140)  
SECTION 09-00178-00-RS  
TAZEWELL COUNTY  
FAU ROUTE 6711 (PARKWAY DRIVE)  
MILLING AND RESURFACING

C-94-107-09

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6711	09-00178-00-RS	TAZEWELL	11	1
FED. ROAD DIST. NO. 4 ILLINOIS		CONTRACT NO. 89528		



FUNCTIONAL CLASSIFICATION: URBAN COLLECTOR  
DESIGN SPEED: 35 MPH  
DESIGN TRAFFIC: 15,000 ADT (2007)  
DESIGN GUIDELINES: 3R

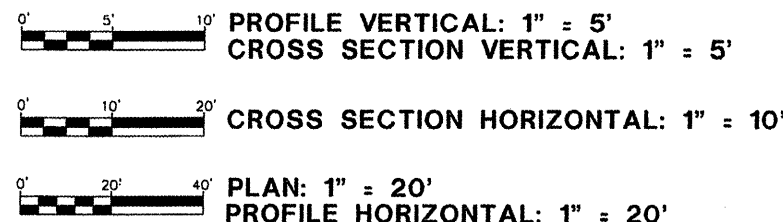
APPROVED: June 30, 2009  
*Joseph W. Walden*  
CITY OF PEKIN ENGINEER

PASSED: 7-9, 2009  
*Derek C. Paine*  
DISTRICT FOUR ENGINEER OF LOCAL ROADS & STREETS

RELEASING FOR BID BASED ON LIMITED REVIEW: 7/9/09, 2009  
*[Signature]*  
DEPUTY DIRECTOR OF HIGHWAYS, REGION THREE ENGINEER  
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1	COVER SHEET
2	SUMMARY OF QUANTITIES AND GENERAL NOTES
3	MILLING AND RESURFACING TYPICAL SECTIONS
4	SCHEDULE OF QUANTITIES
5	MILLING AND RESURFACING PLAN SHEET
DISTRICT 4 STANDARDS	
6-8	406101-D4 BUTT JOINTS
9	440001-D4 HOT MIX ASPHALT SURFACE REMOVAL (COLD MILLING)
10-11	780001-D4 TYPICAL PAVEMENT MARKINGS
HIGHWAY STANDARDS	
	701602-04
	701701-06
	701801-04
	701901-01
	886001-01
	886006-01

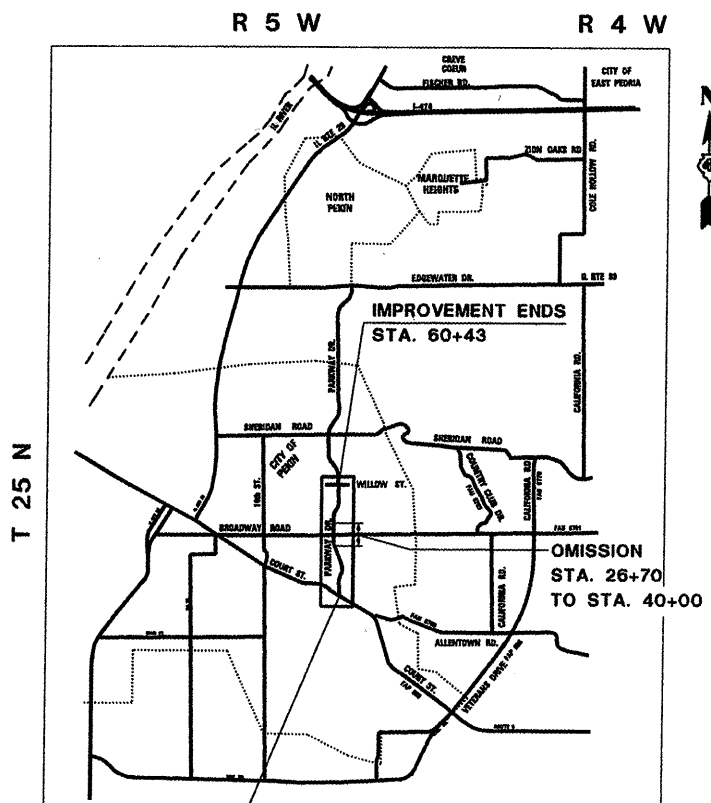


FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

J.U.L.I.E.  
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION  
1-800-892-0123  
OR 811



CALL JULIE BEFORE YOU DIG



LENGTH OF IMPROVEMENT = 4,413 FEET = 0.836 MILES



*Kenneth M. Coulter* 6-30-09  
KENNETH M. COULTER DATE  
ILLINOIS REGISTERED PROFESSIONAL ENGINEER  
No. 062-038839  
EXPIRATION DATE 11/30/09

AECOM  
750 Corporate Woods Privy,  
Vernon Hills, IL 60061-3153  
Ph: (847) 279-2500  
IL Design Firm Reg. No. 184-001518

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CONTRACT NO. 89528  
CAT NO. 034261-00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6711	09-00178-00-RS	TAZEWELL	11	2
STA.		TO STA.		
FED. ROAD DIST. NO. 4		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 89528				

SUMMARY OF QUANTITIES				CITY OF PEKIN 100% FEDERAL CONSTRUCTION TYPE CODE ROADWAY	
				UNIT	TOTAL QUANTITY
CODE NO.	PAY ITEM	UNIT	TOTAL QUANTITY		
40800100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	2,342	2,342	
40800300	AGGREGATE (PRIME COAT)	TON	47	47	
40803335	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50	TON	2,147	2,147	
44000155	HOT-MIX ASPHALT SURFACE REMOVAL, 1 1/2"	SQ YD	2,135	2,135	
44000161	HOT-MIX ASPHALT SURFACE REMOVAL, 3"	SQ YD	23,421	23,421	
80265500	MANHOLES TO BE ADJUSTED	EACH	18	18	
67100100	MOBILIZATION	L.SUM	1	1	
70101700	TRAFFIC CONTROL AND PROTECTION	L.SUM	1	1	
* 78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	53	53	
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	10,480	10,480	
* 78000500	THERMOPLASTIC PAVEMENT MARKING - LINE 8"	FOOT	650	650	
* 78000800	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	420	420	
* 78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	108	108	
* 88800100	DETECTOR LOOP, TYPE I	FOOT	304	304	

\* SPECIALTY ITEMS

GENERAL NOTES:

PROPERTY OWNER ACCESS REQUIREMENT

Access must be maintained to all existing properties during construction per Article 107.09 unless arrangements are made in writing by the Contractor with the property owners with a copy to the Engineer for short-term closures.

No hot-mix asphalt surface removal can begin between October 1, 2009 and March 1, 2010.

WINTER SHUTDOWN RESTRICTIONS ON COLD MILLED PROJECTS

Prior to winter shutdown the following steps shall be taken:

- All cold milled surfaces shall be overlaid.
- All lanes shall be reopened to traffic.
- Manholes, where applicable, shall be adjusted to the elevation of the binder to ease in plowing snow, and re-adjusted to finished grade in the Spring. The initial manhole adjustment will be paid for at the contract unit price and any re-adjustment, as directed by the Engineer, will be paid for in accordance with Article 109.04.
- Temporary or permanent pavement marking shall be placed as applicable.

**AECOM**

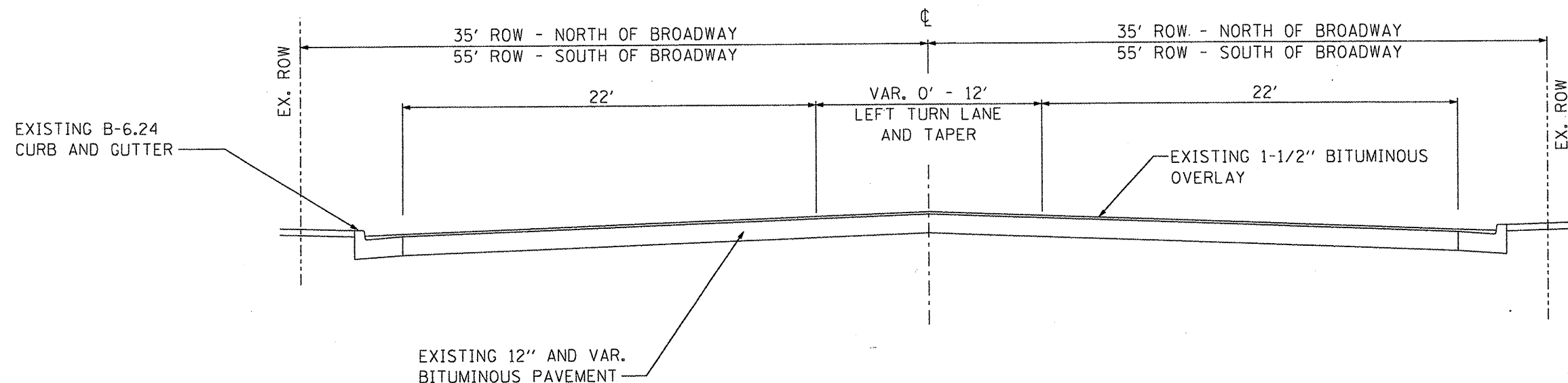
111 NE Jefferson Ave  
Peoria, Illinois 61602  
PH: (309) 676-8464  
FAX: (309) 676-5445  
IL Design Firm Reg. No. 184-001518

REVISIONS	
NAME	DATE

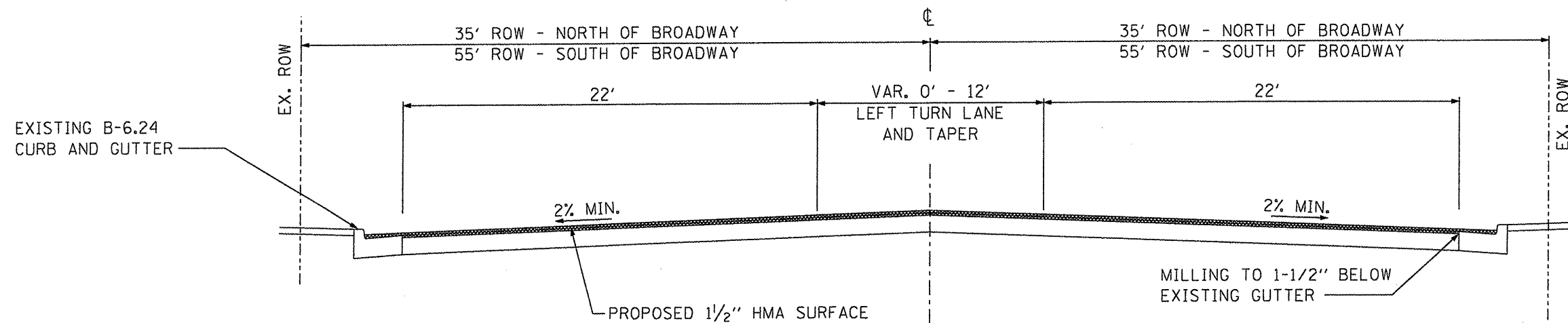
ILLINOIS DEPARTMENT OF TRANSPORTATION  
**CITY OF PELIN  
PARKWAY DRIVE  
SUMMARY OF QUANTITIES  
AND GENERAL NOTES**

SCALE: AS SHOWN      DRAWN BY: KRS  
DATE: 04/20/2009      CHECKED BY: KMC

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6711	09-00178-00-R5	TAZEWELL	11	3
STA.		TO STA.		
FED. ROAD DIST. NO. 4		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 89528				



**EXISTING SECTION PARKWAY DRIVE**  
STA. 3+00 TO STA. 60+43



**PROPOSED SECTION PARKWAY DRIVE**  
STA. 3+00 TO STA. 60+43  
OMISSION STA. 26+70 TO STA. 40+00

PROJECT WILL REMOVE EXISTING OVERLAY OF THE GUTTER TO 1-1/2 INCHES BELOW GUTTER AND REPAVE

**HOT-MIX ASPHALT MIXTURE REQUIREMENTS**

Mixture Uses (s)	SURFACE COURSE (1-1/2")
Rap % (Max)**:	15%
AC/PG:	SBR OR SBS PG 70-28
Design Air Voids:	4 % @ N = 50
Mixture Composition: (Gradation Mixture)	IL. 9.5 OR IL. 12.5
Friction Aggregate	MIX D

**AECOM**

111 NE Jefferson Ave.  
Peoria, Illinois 61602  
PH(309)676-8464  
FAX(309)676-5445  
IL Design Firm Reg. No. 184-001518

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**CITY OF PEKIN**  
**PARKWAY DRIVE**  
**MILLING AND RESURFACING**  
**TYPICAL SECTIONS**

SCALE: AS SHOWN  
DATE 04/20/2009

DRAWN BY KRS  
CHECKED BY KMC

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6711	09-00178-00-RS	TAZEWELL	11	4
STA.		TO STA.		
FED. ROAD DIST. NO. 4		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 89528				

BITUMINOUS MATERIALS (PRIME COAT)	
LOCATION	GALLON
STA. 3+00 TO STA. 26+70 AND STA. 40+00 TO STA. 60+43	2,342
TOTAL	2,342

AGGREGATE (PRIME COAT)	
LOCATION	TON
STA. 3+00 TO STA. 26+70 AND STA. 40+00 TO STA. 60+43	47
TOTAL	47

HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50	
LOCATION	TON
STA. 3+00 TO STA. 26+70 AND STA. 40+00 TO STA. 60+43	2,147
TOTAL	2,147

HOT-MIX ASPHALT SURFACE REMOVAL, 1 1/2"	
LOCATION	SQ YD
STA. 3+00 TO STA. 26+70 AND STA. 40+00 TO STA. 60+43	2,185
TOTAL	2,185

HOT-MIX ASPHALT SURFACE REMOVAL, 3"	
LOCATION	SQ YD
STA. 3+00 TO STA. 26+70 AND STA. 40+00 TO STA. 60+43	23,421
TOTAL	23,421

MANHOLES TO BE ADJUSTED	
LOCATION	EACH
STA. 3+00 TO STA. 26+70 AND STA. 40+00 TO STA. 60+43	18
TOTAL	18

MOBILIZATION	
LOCATION	L SUM
STA. 3+00 TO STA. 26+70 AND STA. 40+00 TO STA. 60+43	1
TOTAL	1

TRAFFIC CONTROL AND PROTECTION	
LOCATION	L SUM
STA. 3+00 TO STA. 60+43	1
TOTAL	1

THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS		
LOCATION	NO.	SQ FT
SOUTHBOUND RT. TURN ARROW AT STA. 4+00±	1	8.8
NORTHBOUND RT. TURN ARROW AT VOGEL DR.	1	8.8
NORTHBOUND LT. TURN ARROWS AT VOGEL DR.	2	17.6
SOUTHBOUND LT. TURN ARROWS AT VOGEL DR.	2	17.6
TOTAL		52.8

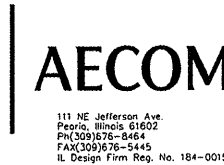
THERMOPLASTIC PAVEMENT MARKING - LINE 4"			
LOCATION	FOOT	NO.	FOOT
DOUBLE YELLOW			
STA. 3+00 TO VOGEL DR.	386	2	772
VOGEL DR. TO STADIUM DR.	1,163	1	1,163
VOGEL DR. TO STADIUM DR.	1,418	1	1,418
STADIUM DR. TO STA. 26+70	490	2	980
STA. 40+00 TO STA. 60+43	2,043	2	4,086
SKIP DASH			
SOUTHBOUND STA. 3+00 TO VOGEL DR.	10	11	110
SOUTHBOUND VOGEL DR. TO STADIUM DR.	10	11	110
SOUTHBOUND STADIUM DR. TO STA. 26+70	10	35	350
SOUTHBOUND STA. 26+70 TO STA. 60+43	10	51	510
NORTHBOUND STA. 3+00 TO VOGEL DR.	10	9	90
NORTHBOUND VOGEL DR. TO STADIUM DR.	10	35	350
NORTHBOUND STADIUM DR. TO STA. 26+70	10	11	110
NORTHBOUND STA. 26+70 TO STA. 60+43	10	51	510
TOTAL			10,479

THERMOPLASTIC PAVEMENT MARKING - LINE 8"	
LOCATION	FOOT
EXTENDING EXISTING AT COURT ST.	80
SOUTHBOUND LT. TURN AT VOGEL DR.	100
NORTHBOUND RT. TURN AT VOGEL DR.	50
NORTHBOUND LT. TURN AT VOGEL DR.	100
CROSSWALK AT VOGEL DR.	310
TOTAL	650

THERMOPLASTIC PAVEMENT MARKING - LINE 12"	
LOCATION	FOOT
CROSSWALK FOR PARK ENTRANCE (15 STRIPES X 10 FOOT)	270
MEDIAN STRIPES NORTH OF VOGEL (13 STRIPES - LENGTH VARIES)	150
TOTAL	420

THERMOPLASTIC PAVEMENT MARKING - LINE 24"	
LOCATION	FOOT
SOUTHBOUND STOP BAR AT VOGEL DR.	24
NORTHBOUND STOP BAR AT VOGEL DR.	48
NORTHBOUND STOP BAR AT WILLOW ST.	36
TOTAL	108

DETECTOR LOOP, TYPE I	
LOCATION	FOOT
VOGEL DR.	304
TOTAL	304



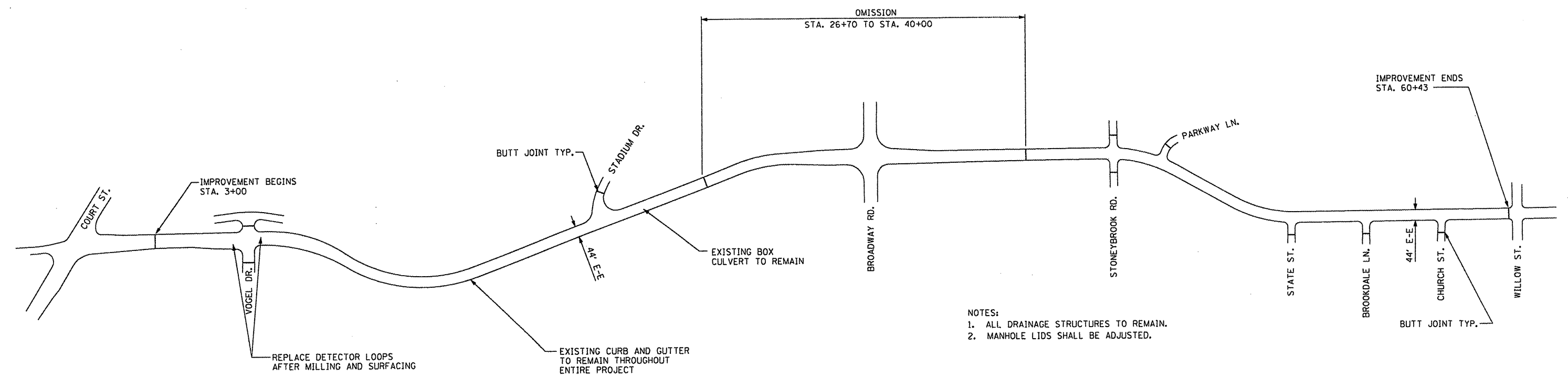
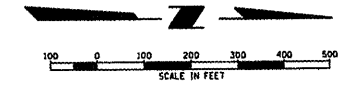
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**CITY OF PELIN**  
**PARKWAY DRIVE**  
**SCHEDULE OF QUANTITIES**

SCALE: AS SHOWN  
DATE: 04/20/2009

DRAWN BY: KRS  
CHECKED BY: KMC

F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6711	09-00178-00-RS	TAZEWELL	11	5
STA.		TO STA.		
FED. ROAD DIST. NO. 4		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 89528				



- NOTES:  
 1. ALL DRAINAGE STRUCTURES TO REMAIN.  
 2. MANHOLE LIDS SHALL BE ADJUSTED.

**AECOM**

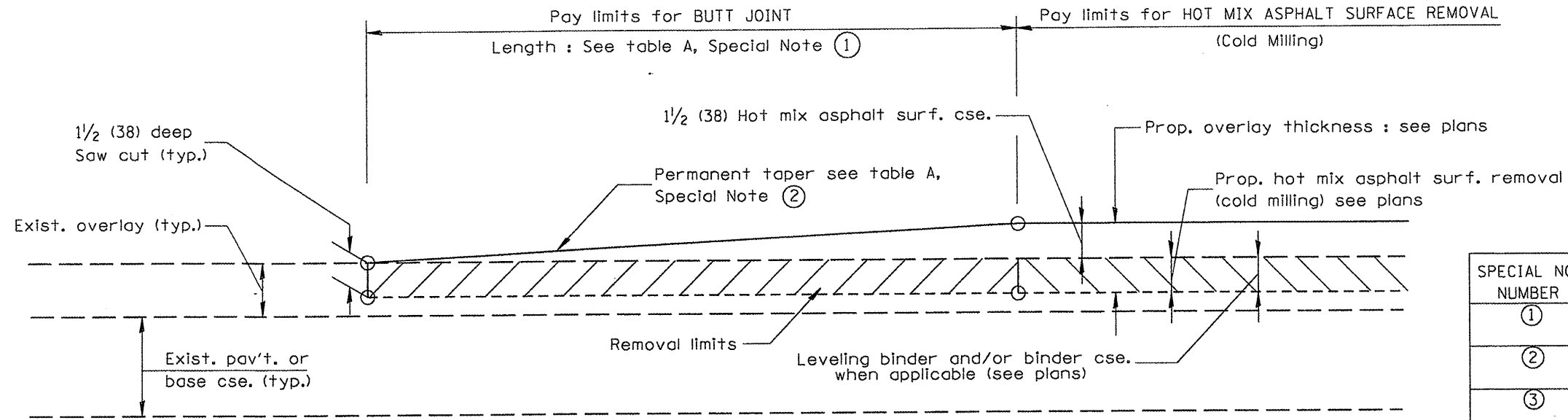
111 NE Jefferson Ave.  
 Peoria, Illinois 61602  
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 IL Design Firm Reg. No. 184-001518

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**CITY OF PEKIN**  
**PARKWAY DRIVE**  
**MILLING AND RESURFACING**  
**PLAN VIEW**

SCALE: AS SHOWN      DRAWN BY: KRS  
 DATE: 04/20/2009      CHECKED BY: KMC

DESIGNER NOTES:  
 1. Include District Special Provision for Butt Joints & for Hot Mix Asphalt Removal (Cold Milling).  
 2. The butt joints pay item includes the saw cut & temporary ramp. Payment for the Butt Joint applies whether or not the project features Hot Mix Asphalt Removal (Cold Milling).



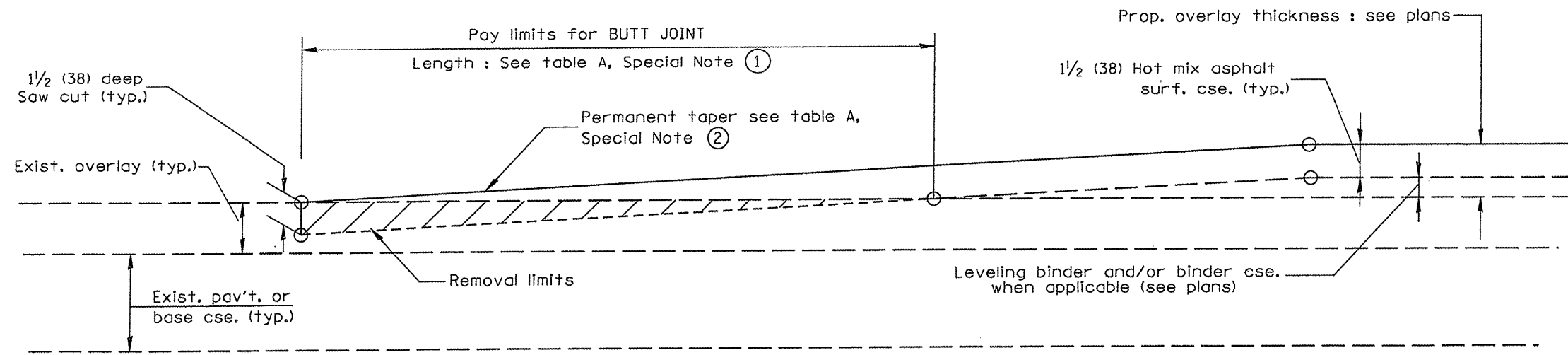
**CASE 1 : WITH HOT MIX ASPHALT SURFACE REMOVAL (COLD MILLING)**

**TABLE A**  
(LENGTHS AND TAPER RATES)

SPECIAL NOTE NUMBER	ELEMENT	MAINLINE INTERSTATES & 4-LANE EXPRESSWAYS	ALL OTHERS
①	LENGTH OF BUTT JOINT	60'(18.0 m)	30'(9.0 m)
②	PERMANENT TAPER RATE	1:480	1:240
③	TEMPORARY RAMP TAPER RATE	1:80	1:40
④	TEMPORARY RAMP LENGTH	10'(3.0 m)	5'(1.5 m)
⑤	LENGTH OF BUTT JOINT	10'(3.0 m)	10'(3.0 m)

**GENERAL NOTES**

- The work shall be done in accordance with Article 406.08 and the Special Provision for Butt Joints.
- The pavement surface to be removed may be either bituminous or P.C. concrete. The work shall be performed in accordance with Article 440.04 and the Special Provisions for Butt Joints.
- The saw cut joints shall be primed just prior to the placing of bituminous material. The work will be in accordance with the applicable portions of Article 406.05.



**CASE 2 : NO HOT MIX ASPHALT SURFACE REMOVAL (COLD MILLING)**

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

01-01-97	RENUM. C-23.01, NEW REVISION BOX	T.P.
04-01-97	CORRECTION TO DEPTH	J.A.
09-15-05	REVISED DESIGNER NOTE	M.M.A.
10-16-06	REVISED TO 2007 SPEC.	M.A.

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

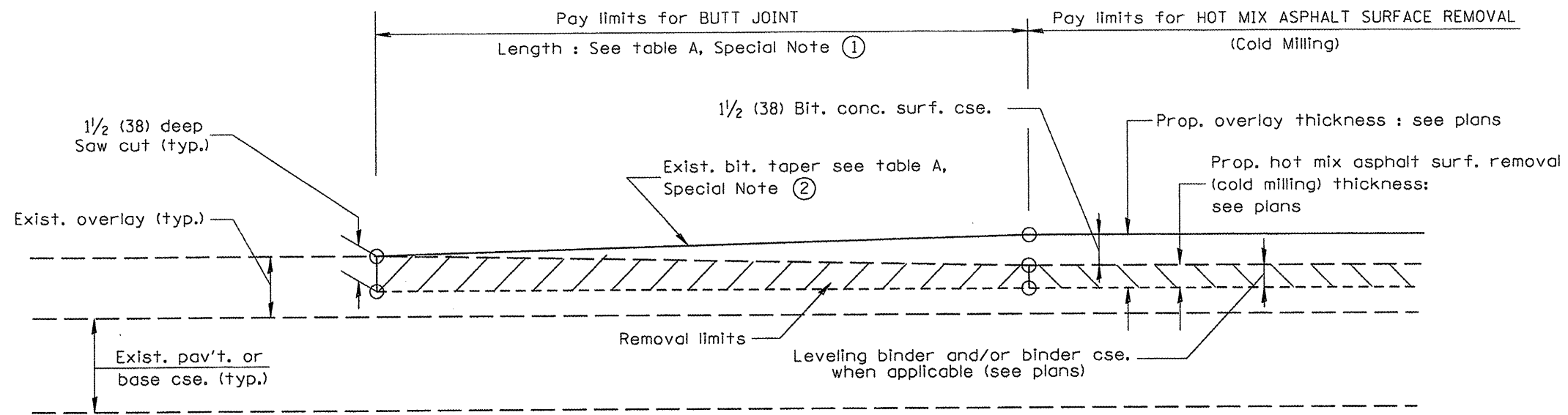
**BUTT JOINTS**

NOT TO SCALE

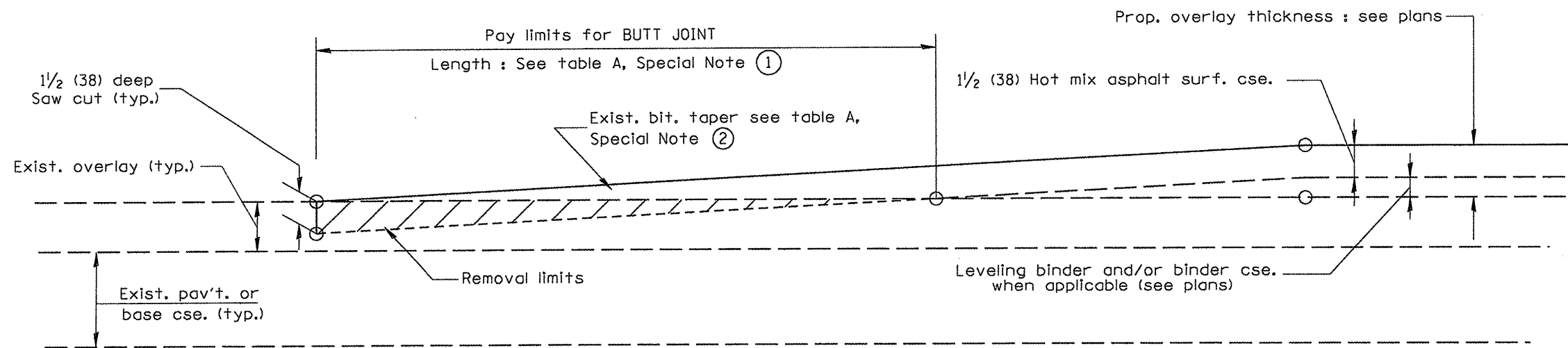
SHT. 1 OF 3  
CADD STD. 406101-D4

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6711	09-00178-00-RS	TAZEWELL	11	6

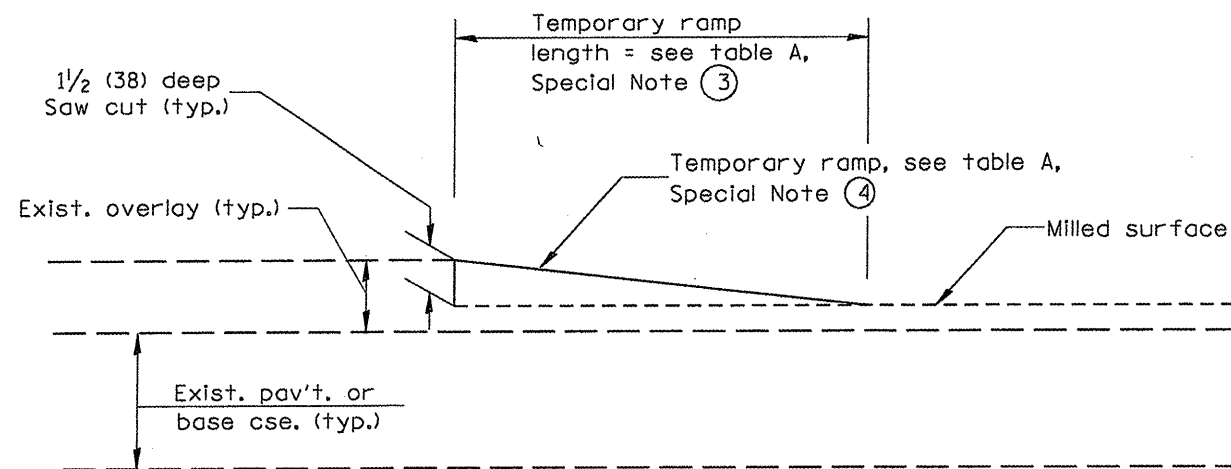
CONTRACT NO. 89528  
FED. ROAD DIST. NO. 4 ILLINOIS FED. AID PROJECT



**CASE 3 : WITH HOT MIX ASPHALT SURFACE REMOVAL (COLD MILLING)  
TIE-IN TO EXISTING BITUMINOUS TAPER**



**CASE 4 : NO HOT MIX ASPHALT SURFACE REMOVAL (COLD MILLING)  
TIE-IN TO EXISTING BITUMINOUS TAPER**



**DETAIL TEMPORARY RAMP**

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

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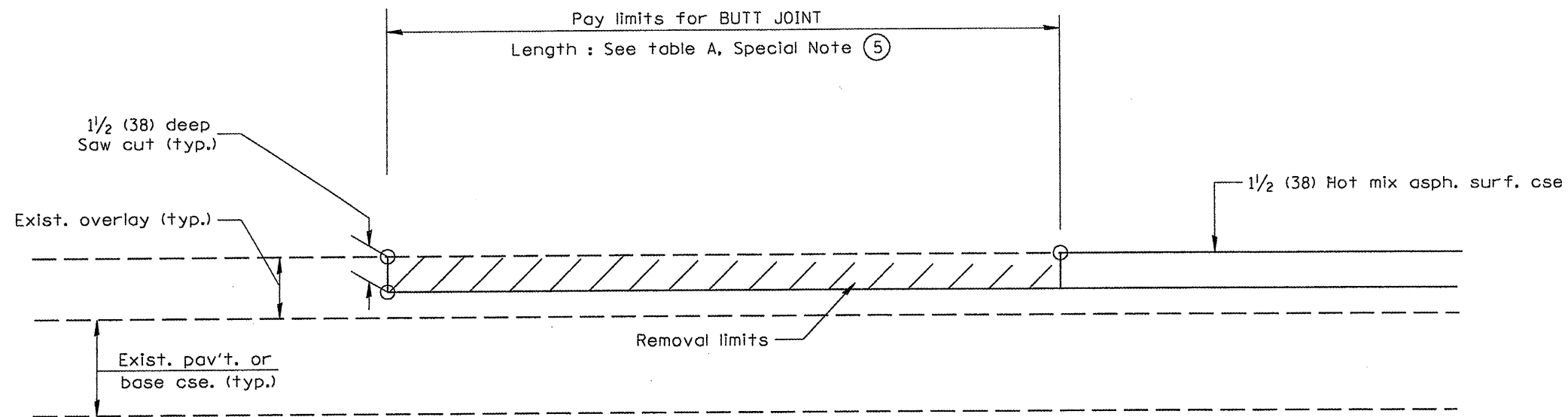
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**BUTT JOINTS**

NOT TO SCALE

SHT. 2 OF 3  
CADD STD. 406101-D4

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6711	09-00178-00-RS	TAZEWELL	11	7
FED. ROAD DIST. NO. 4 ILLINOIS FED. AID PROJECT			CONTRACT NO. 89528	



CASE 5 : WITH HOT MIX ASPHALT SURFACE REMOVAL (COLD MILLING)  
TIE-IN TO EXISTING BITUMINOUS TAPER

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


STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

BUTT JOINTS

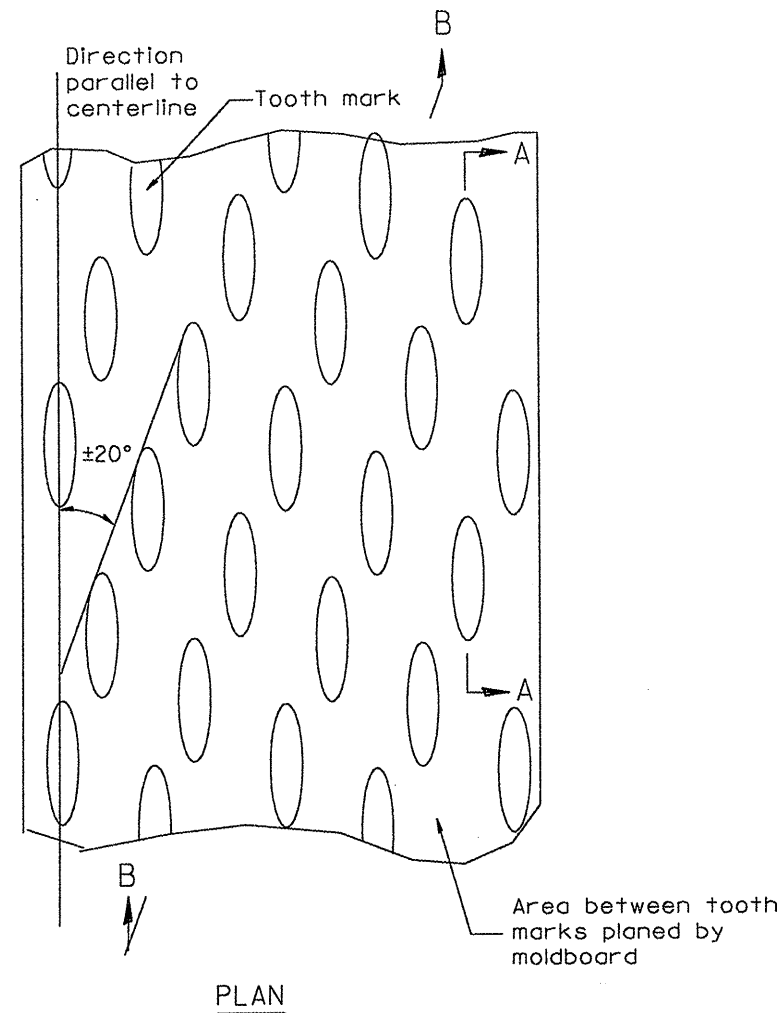
NOT TO SCALE

SHT. 3 OF 3  
CADD STD. 406101-D4

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6711	09-00178-00-RS	TAZEWELL	11	8
CONTRACT NO. 89528			FED. ROAD DIST. NO. 4 ILLINOIS FED. AID PROJECT	

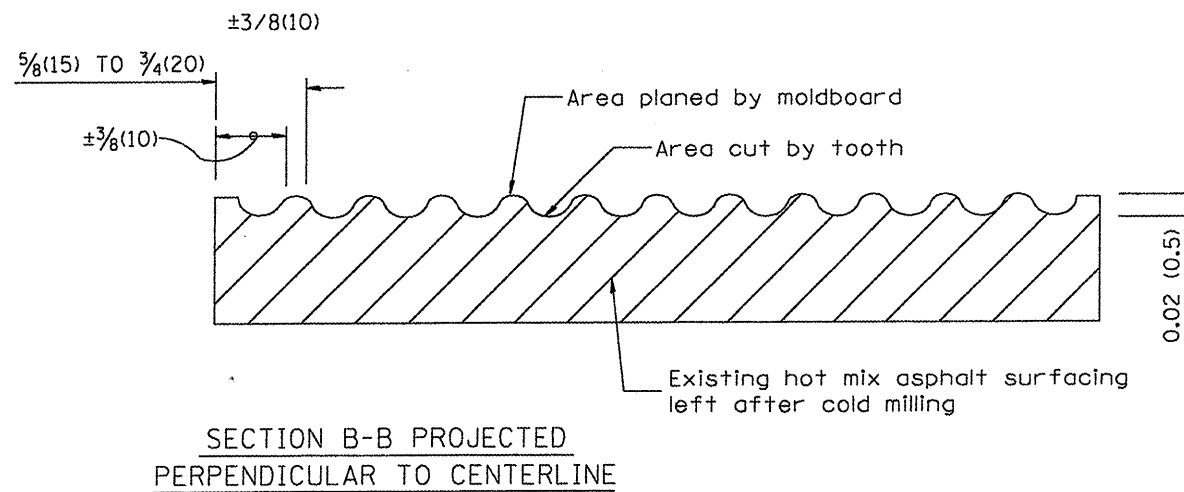
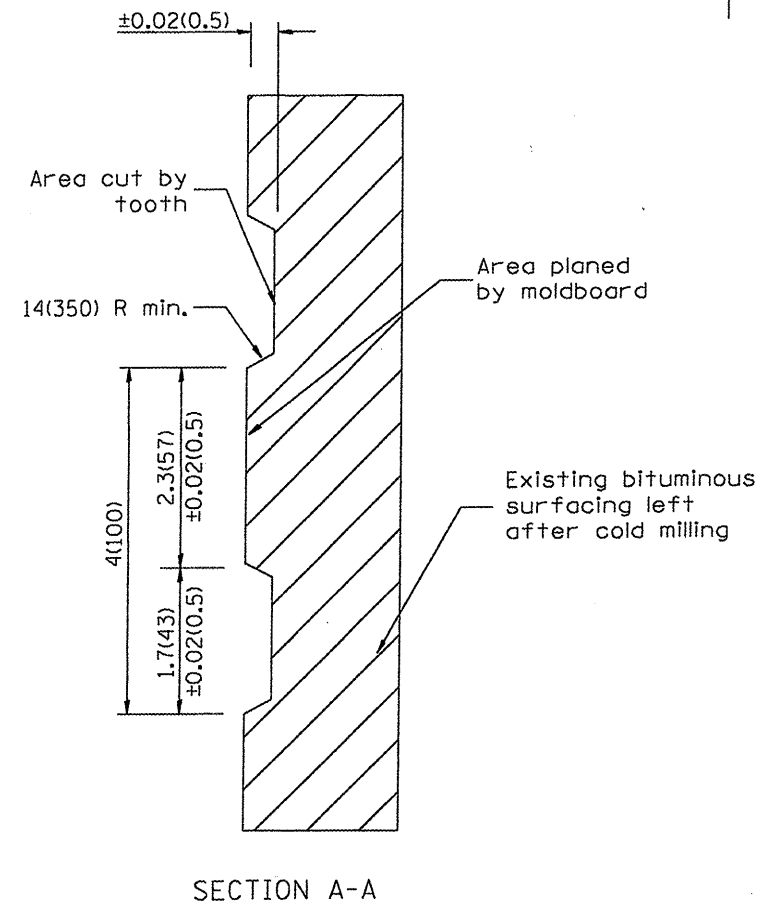


DESIGNER NOTES:  
1. INCLUDE DISTRICT SPECIAL PROVISION, IF APPLICABLE.



General notes:

1. Coldmilling shall consist of two processes: Cutting with carbide teeth mounted on a rotating drum, and planing with a moldboard mounted immediately behind the cutting drum.
2. Other similar patterns will be acceptable if they consist of a smooth, flat, planed surface interspersed with a pattern of discontinuous longitudinal striations.



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

01-01-97	RENUM. C-104.01, NEW REVISION BOX	T.P.
04-20-98	REMOVED MILLING DETAIL FROM STANDARD	J.A.
09-08-98	CORRECT NOTE LEADER PLACEMENT	R.W.
10-16-06	REVISED TO 2007 SPEC.	M.A.

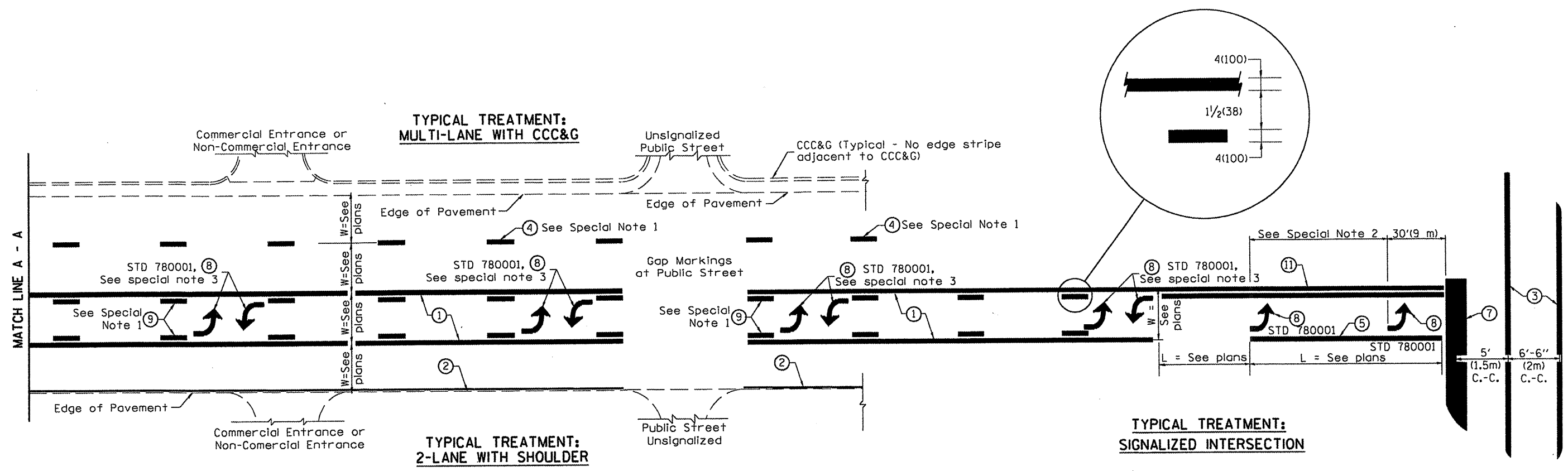
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

HOT MIX ASPHALT SURFACE REMOVAL (COLD MILLING)

NOT TO SCALE

CADD STD. 440001-D4

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6711	09-00178-00-RS	TAZEWELL	11	9
CONTRACT NO. 89528			FED. ROAD DIST. NO. 4 ILLINOIS FED. AID PROJECT	



**FLUSH PAVED MEDIAN: TWO-WAY LEFT TURN LANE WITH ONE-WAY LEFT TURN LANE AT SIGNALIZED INTERSECTION**

**TYPICAL PAVEMENT MARKING LEGEND**

(Note: This is a District Standard Legend. Some elements may not apply to specific project.)

- ① 4(100) Solid (Yellow)
- ② 4(100) Solid (White)
- ③ 2-6(150) Crosswalk @ 6'-6" (2m)min C.-C. (White)  
2-8(200) Crosswalk @ 6'-6" (2m)min C.-C. (White) (When traffic signals are present.)
- ④ 6(150) Skip-Dash (White) (See Special Note 1)
- ⑤ 8(200) Solid (White)
- ⑥ 12(300) Diagonal (White) (Item ⑥ is shown on Std. 780001)
- ⑦ 24(600) Stop Bar (White)
- ⑧ Letters & Arrows (See Std. 780001 and Special Notes 2 & 3)
- ⑨ 4(100) Skip-Dash (Yellow) (See Special Note 1)
- ⑩ 12(300) Diagonal (Yellow) (See Table A)
- ⑪ 4(100) Double Solid (Yellow)

**SPECIAL NOTES**

1. Skip-Dash markings will be centered between both ends of city blocks and shall be placed in alignment transversely across the pavement.
2. The following shall apply to arrows located in one-way left turn lanes:
  - A. A minimum of two (2) arrows is required.
  - B. The maximum spacing between arrows is 80' (24 m).
  - C. Arrows shall be evenly spaced if three (3) or more are required.
3. The following shall apply to arrow pairs located in two-way left turn lanes:
  - A. A minimum of two (2) arrow pairs is required.
  - B. The maximum spacing between arrow pairs is 200' (61 m).
  - C. Arrow pairs shall be evenly spaced if three (3) or more are required.
  - D. The spacing between Bi Directional Left Turn Arrows is 33' (10 m).

**GENERAL NOTES**

1. Refer to State Standard 780001 for additional Pavement Markings including letters & arrows.
2. See Plans for Pavement Markings adjacent to curbed islands and medians, and through lane reductions.

DESIGNER NOTES: 1. Include State Standard 780001 (Typical Pavement Markings)

01-01-97	RENUM. F-8.03, NEW REVISION BOX	T.P.	10-16-06	REVISED TO 2007 SPEC.
02-07-97	ADD BI DIRECTIONAL DIMENSION	J.A.		
10-97	CORRECT BI DIRECTIONAL DIMENSION	J.A.		
08-02	ADD CROSSWALK DMNS. WITH T.S.	M.A.		

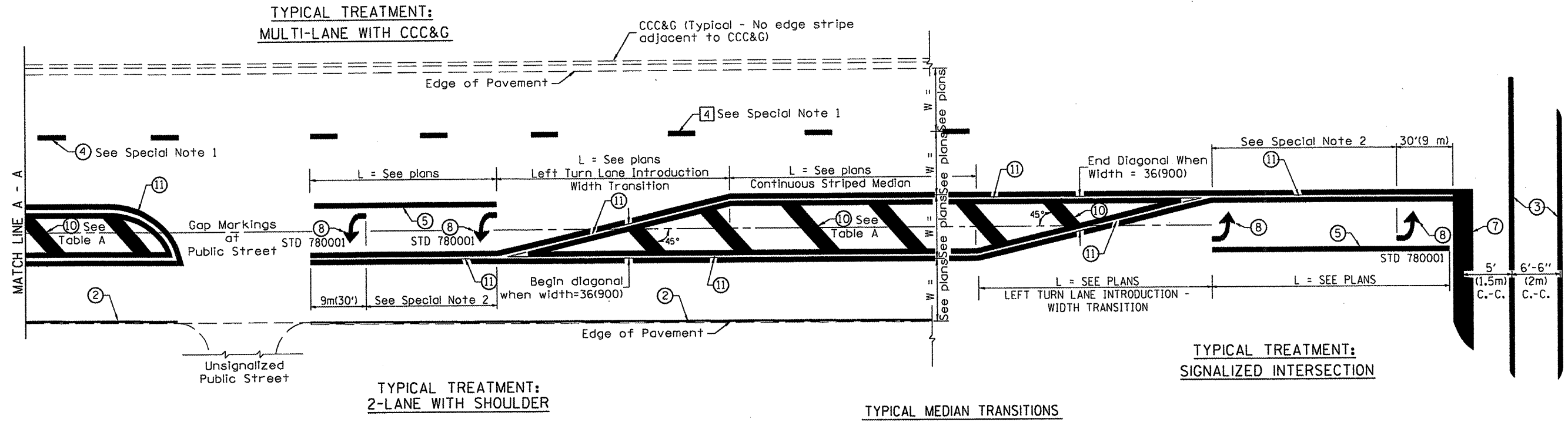
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TYPICAL PAVEMENT MARKINGS**  
NOT TO SCALE

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6711	09-00178-00-RS	TAZEWELL	11	10
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	

SHT. 1 OF 2  
CADD STD. 780001-D4

CONTRACT NO. 89528

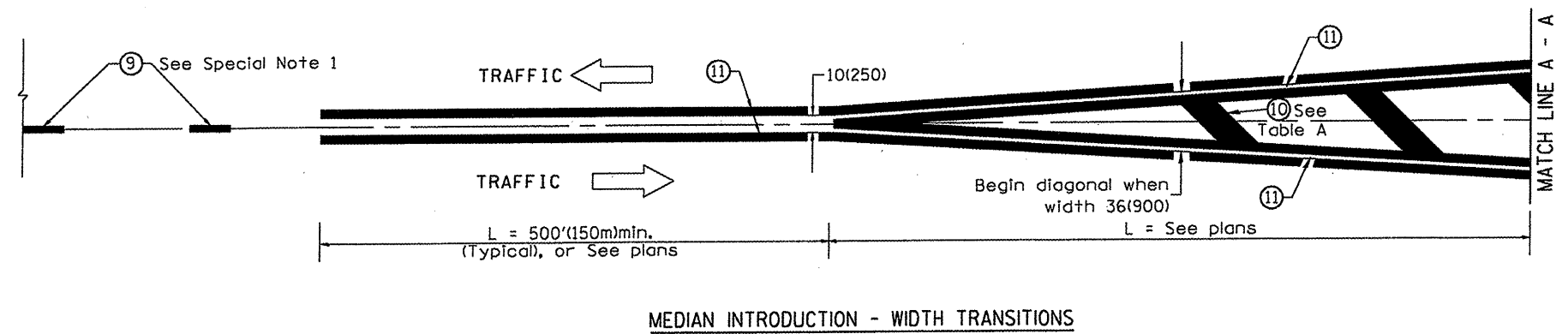


FLUSH PAVED MEDIAN: RESTRICTED LEFT TURN LANE

TABLE A

RECOMMENDED SPACING BETWEEN DIAGONAL LINES

SPEED LIMIT RANGE	INTERSECTION CHANNELIZATION (Includes Width Transitions for Median and Left Turn Lane Introductions)	
	CONTINUOUS	
Less Than 30 mph (50 km/h)	50' (15m)	15' (5m)
30 - 45 mph (50 - 70 km/h)	75' (23m)	20' (6m)
Over 45 mph (70 km/h)	150' (46m)	30' (9m)



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