

031

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HIGHWAY STANDARDS

000001-07	701011-04
001006	701301-04
442201-03	701306-04
482011-03	701311-03
701001-02	701901-08
701006-05	780001-05

DISTRICT STANDARDS

- 406101-D4
- 406401-D4
- 440001-D4
- 780001-D4

DESIGN DESIGNATION:

MINOR ARTERIAL
 ADT = 1050 (2018)
 MU = 13.33% (2018)
 SU = 8.57% (2018)



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

PROJECT ENGINEER: ELIAS ELDERZI (309) 671-3482
 PROJECT MANAGER: MIKE LEWIS (309) 671-3454

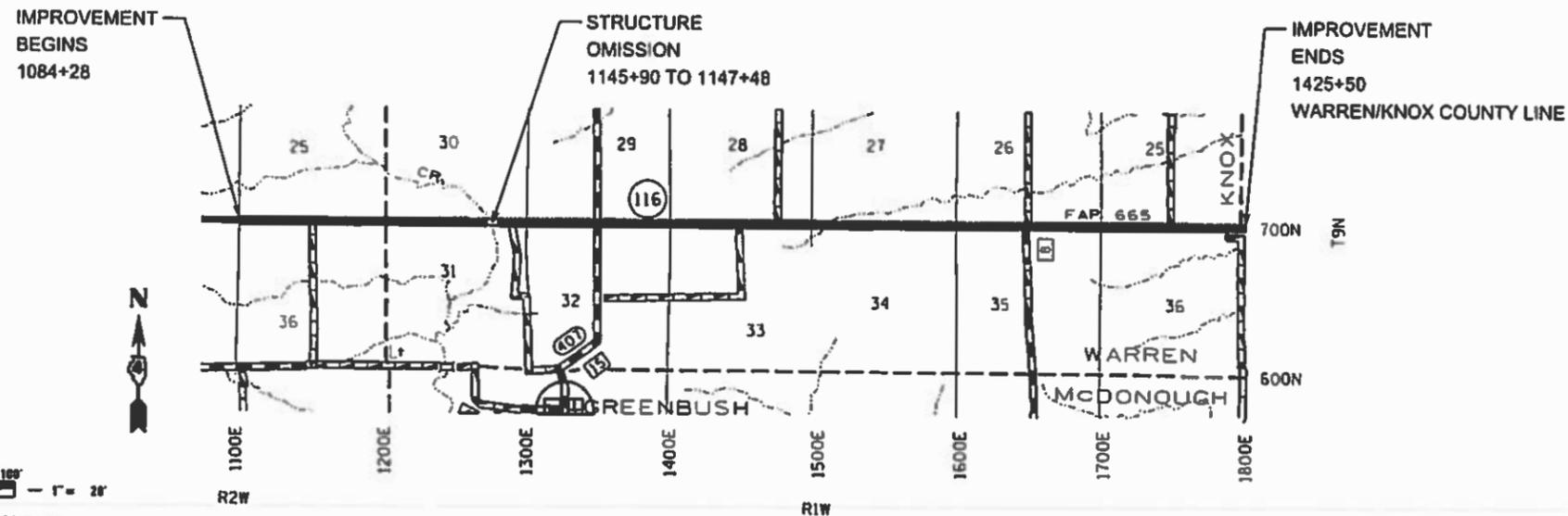
CONTRACT NO. 68814
 CATALOG NO. 033816-00D

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED
HIGHWAY PLANS

FAP 665 (IL 116)
 SECTION 140RS-4
 PROJECT STP-ULRU(103)
 TYPE of IMPROVEMENT 3P
 WARREN COUNTY

C-94-071-08



GROSS LENGTH = 34,122 FT. = 6.46 MILE
 NET LENGTH = 33,964 FT. = 6.43 MILE

FAP RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
665	140RS-4	WARREN	25	1
ILLINOIS CONTRACT NO. 68814				

D-94-052-08



DESCRIPTION OF WORK:
 THIS PROJECT CONSISTS OF COLD-IN PLACE RECYCLING OF IL 116 FROM TR 154 (115TH ST) TO KNOX COUNTY LINE.

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SUBMITTED Dec 12 2019
Renae A. Barnett REGIONAL ENGINEER

Jan 31 2020
[Signature] ENGINEER OF DESIGN AND ENVIRONMENT

Jan 31 2020
[Signature] DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

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OF THE STATE OF ILLINOIS

COMMITMENTS

Commitments are not to be altered without the written approval of all parties to which the commitment was made.

NO COMMITMENTS HAVE BEEN MADE FOR THIS PROJECT.

ENVIRONMENTAL REVIEWS

Prior to the use of any proposed borrow areas, use areas (temporary access roads, detours, run-arounds, etc.) and/or waste areas, the Contractor shall file the required environmental resource request surveys according to Section 107.22 of the Standard Specifications. These surveys are required in order for the Department to conduct cultural and biological resource surveys for the proposed site.

Prior to any waste materials being removed from the construction site the required environmental resource surveys will need to be obtained and filed by the Contractor. Excess waste products removed from the construction site shall be disposed of as required in Section 202.03 of the Standard Specifications.

Any protruding metal bars shall be removed prior to the disposal of broken concrete at approved disposal sites.

The required environmental resource documentation shall include the following:

- * BDE Form 2289 (Environmental Survey Request)
- * BDE Form 2290 (Waste/Use Area Review)
- * A location map showing the size limits and location of the use area
- * Color photographs depicting the use area
- * Borrow Area Entry Agreement form-D4 PI0101

Please note that a minimum of four weeks shall be allowed for the District to obtain the required environmental clearances and six weeks for the required borrow site environmental clearances.

PROPERTY OWNER ACCESS REQUIREMENTS

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.

PAVEMENT STATIONING NUMBERS & PLACEMENT

The Contractor shall provide labor and materials required to imprint pavement station numbers in the finished surface of the pavement and/or overlay. The numbers shall be approximately 3/4 inch (20mm) wide, 5 inches (125 mm) high and 5/8 inch (15 mm) deep.

The pavement station numbers shall be installed as specified herein:

Interval - 200 feet (English stationing) or 100 meters (metric stationing)

Bottom of Numbers - 6 inches (150 mm) from the inside edge of the pavement marking

Location:

- * 2,3, & 5 Lane Pavements - right edge of pavement in direction of increasing stations
- * Multi-Lane Divided Roadways - outside edge of pavement in both directions
- * Ramps - along baseline edge of pavement

Position - stations shall be placed so they can be read from the adjacent shoulder

Format - English (Metric) pavement stations shall use this format "XXX (XX+X00)" where X represents the pavement station

This work will not be paid for separately, but will be considered included in the cost of the associated pavement and/or overlay pay items.

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USER NAME = eversct	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	COMMITMENTS & GENERAL NOTES		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
DRAWN -	REVISED -	665				140RS-4	WARREN	25	2	
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -				CONTRACT NO. 68814				
PLOT DATE = 12/12/2019	DATE -	REVISED -		SCALE:	SHEET OF SHEETS	STA. TO STA.	ILLINOIS FED. AID PROJECT			

AGGREGATE SHOULDERS, TYPE B

Aggregate Shoulders, Type B shall be required for all granular construction of side roads, entrances, and mailbox turnouts, whether or not portions of the surfaces thus constructed are to be covered with a bituminous surface, except where noted differently on the plans.

BUTT JOINT CUTTING TIME RESTRICTION

Butt joints shall not be milled more than three (3) days prior to placement of the HMA surface course.

PAVING SURFACE COURSE

Continuous paving operations on the main roadway shall be maintained at all times during the construction of the hot-mix asphalt surface. No interruptions for side roads, entrances, turn lanes, etc. will be allowed.

POLYMERIZED BITUMINOUS MATERIALS (TACK COAT)

Surface Type	Residual Rate
Milled (HMA or PCC)	0.08 lb / sq ft
Existing Pavement	0.08 lb / sq ft
Fog Coat (between lifts)	0.08 lb / sq ft

CROSSING EXISTING STRUCTURES WITH EQUIPMENT

The following structures, SN 094-0030, may be crossed with the empty MTD. Any structures not listed above shall be verified by the resident prior to beginning work.

NO PASSING ZONE VERIFICATION

The Resident Engineer shall contact Operations to verify the location of no passing zones prior to placement of centerline striping.

JOB SPECIFIC

The Resident Engineer shall contact Operations to verify the location of no passing zones prior to placement of centerline striping.

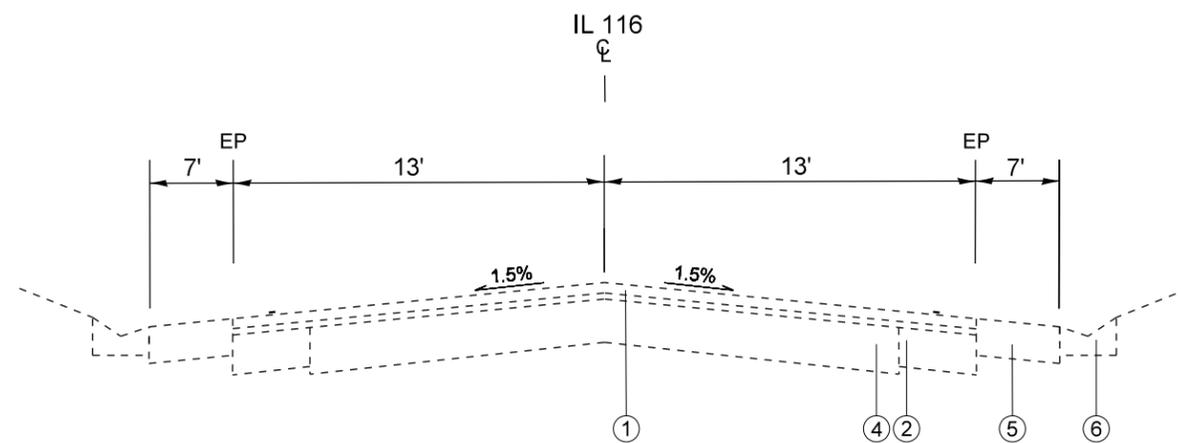
Area Reflective Crack Control might be existing within the project limits. The removal of the Area Reflective Crack Control will not be paid for separately, but will be included in the cost of COLD IN-PLACE RECYCLING, 4".

HOT-MIX ASPHALT MIXTURE REQUIREMENTS

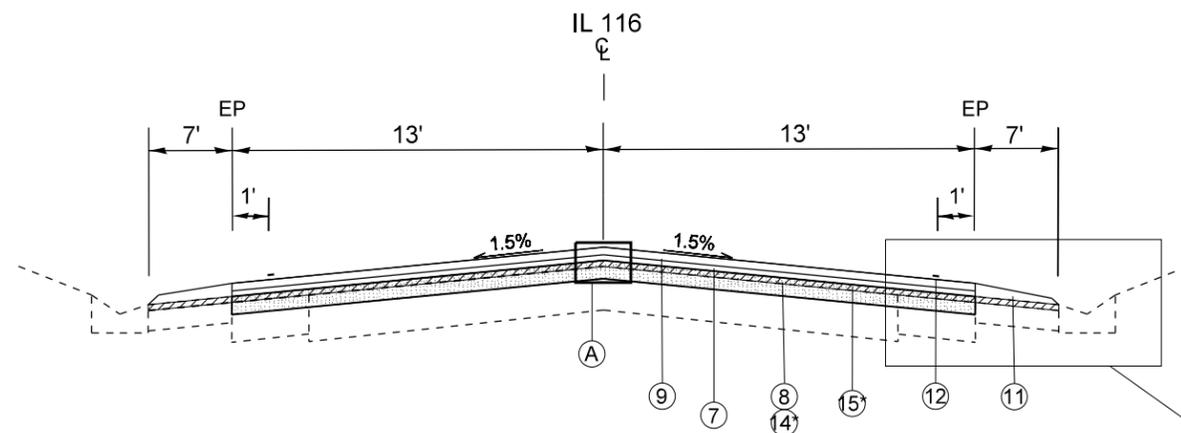
Mixture Use(s):	Surface (1.5")	Binder Course (1")	Shoulders (2.5")	Incidental Surface
AC/PG:	PG 64-22	SBS or SBR 76-22	PG 64-22	PG 64-22
Design Air Voids:	4.0% @ N=50	4.0% @ N=50	4.0% @ N=50	4.0% @ N=50
Mixture Composition: (Mixture Gradation)	IL 9.5	IL 4.75	IL 9.5FG	IL 9.5
Friction Aggregate:	Mix D	N.A.	Mix C	Mix C
Quality Management Program:	PPF	QCP	QCQA	QCQA

- Note: 1) Individual lift thickness of each mix type will be no less than 3 times nominal maximum aggregate size and no more than 6 times nominal maximum aggregate size, unless otherwise approved by the Engineer.
 2) For design purposes, mixture weight for all mixes is determined to be 112.0 lb/s.y./in., unless otherwise noted.
 3) Sublot sizes for PPF and QCP mixes will be 800 tons, unless otherwise agreed to by the Engineer and the paving contractor.*

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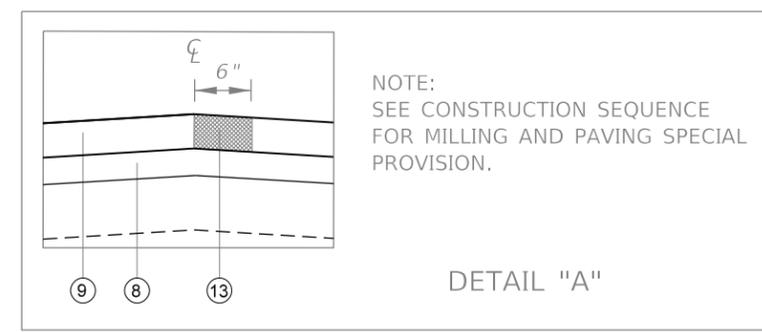


EXISTING TYPICAL SECTION
 RT STA. 1139+86 to 1145+90
 LT STA. 1139+56 to 1145+90
 BRIDGE OMISSION 1145+90 to 1147+48



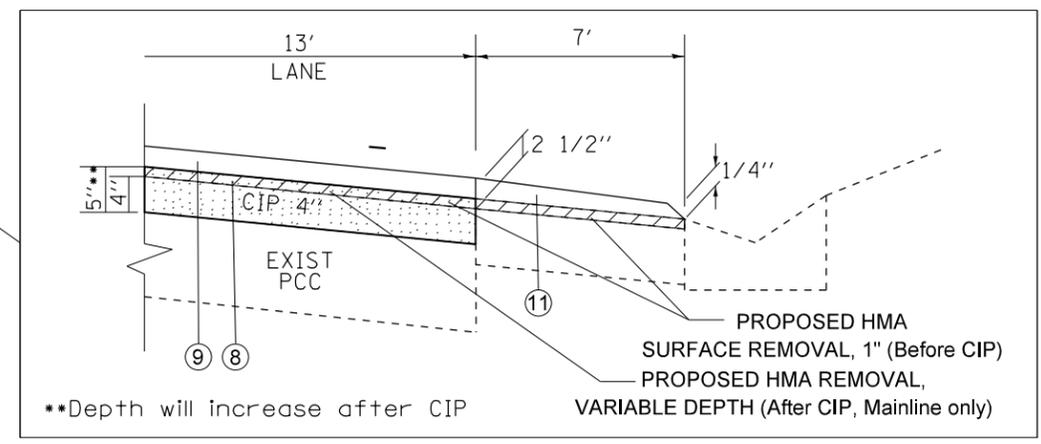
PROPOSED TYPICAL SECTION
 RT STA. 1139+86 to 1145+90
 LT STA. 1139+56 to 1145+90
 BRIDGE OMISSION 1145+90 to 1147+48

* PROPOSED HMA REMOVAL, 1" WILL BE COMPLETED BEFORE CIP RECYCLING, 4".
 PROPOSED HMA REMOVAL, VARIABLE DEPTH WILL BE COMPLETED AFTER CIP RECYCLING, 4".



LEGEND

- ① EXISTING HMA OVERLAY
- ② EXISTING BITUMINOUS WIDENING
- ③ EXISTING AGGREGATE SHOULDER
- ④ EXISTING PCC PAVEMENT
- ⑤ EXISTING STABILIZED SHOULDER
- ⑥ EXISTING CONCRETE GUTTER, TYPE B
- ⑦ PROPOSED COLD IN PLACE RECYCLING, 4"
- ⑧ PROPOSED POLYMERIZED HMA BINDER COURSE, IL-4.75 N50, 1"
- ⑨ PROPOSED HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 1 1/2"
- ⑩ PROPOSED AGGREGATE SHOULDERS, TYPE B
- ⑪ PROPOSED HMA SURFACE COURSE, IL-9.5FG, MIX "C", N50, 2 1/2"
- ⑫ PROPOSED MODIFIED URETHANE PAVEMENT MARKING
- ⑬ PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL (SPECIAL)
- ⑭ PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH
- ⑮ PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL, 1"



PROPOSED COLD IN PLACE RECYCLING, 4"

NOT TO SCALE

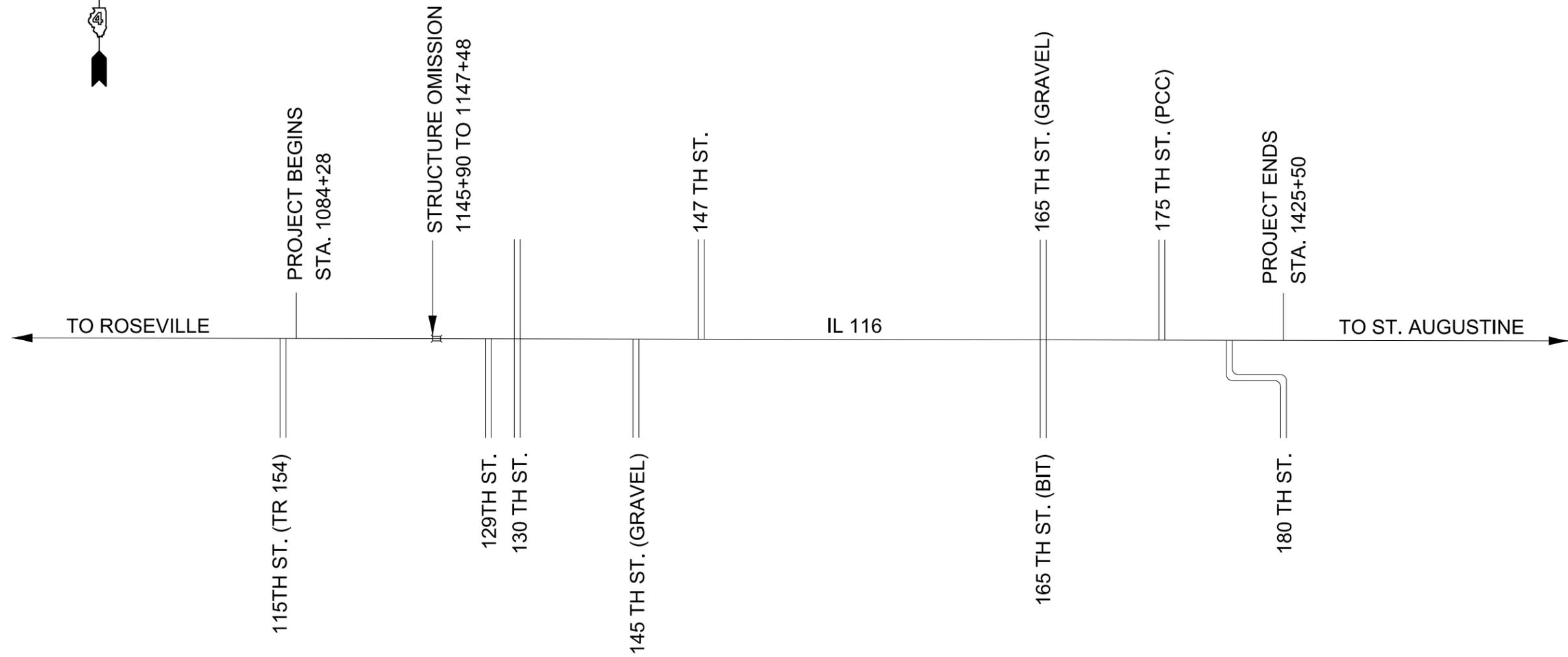
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DATE -	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

TYPICAL SECTIONS	
SCALE:	SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
665	140RS-4	WARREN	25	7
CONTRACT NO. 68814				
ILLINOIS FED. AID PROJECT				



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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

LINE DIAGRAM

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
665	140RS-4	WARREN	25	9
CONTRACT NO. 68814				
ILLINOIS		FED. AID PROJECT		

RESURFACING TABLE																
LOCATION	LENGTH	WIDTH	AREA	HMA SURFACE REMOVAL BUTT JOINT	HMA SURFACE REMOVAL VAR DEPTH	HMA SURFACE REMOVAL (SPECIAL)	COLD IN PLACE RECYCLING 4"	HMA SURF. CSE. MIX "D", N50 1.5"	POLYMERIZED HMA BINDER COURSE, N50, 1"	INCIDENTAL HMA SURFACING	MATERIAL TRANSFER DEVICE	HMA SURF. CSE MIX "C", N50 (SHOULDERS) 2.5"		AGGREGATE SHOULDERS TYPE B		
												LT SIDE	RT SIDE	LT SIDE	RT SIDE	
	FT	FT	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD	TON	TON	TON	TON	TON	TON	TON	TON	TON
MAINLINE																
1084+28.00 TO 1084+78.00	50.00	26	144.44	144.44	-	1.67	86.67	7.42	4.85	-	12.27	-	-	1.71	1.71	
1084+78.00 TO 1139+56.00	5478.00	26	15825.33	-	15825.33	305.44	15883.11	1359.84	889.45	-	2249.29	-	-	313.08	313.08	
LT 1139+56.00 TO 1139+86.00	30.00	13	43.33	-	43.33	1.67	43.33	3.78	2.43	-	6.21	3.92	-		1.71	
RT 1139+56.00 TO 1139+86.00	30.00	13	43.33	-	43.33	1.67	43.33	3.78	2.43	-	6.21	-	-	1.71	1.71	
1139+86.00 TO 1145+40.00	554.00	26	1600.44	-	1600.44	30.78	1600.44	137.02	89.62	-	226.64	72.39	72.39	-	-	
1145+40.00 TO 1145+90.00	50.00	26	144.44	144.44	-	2.78	144.44	12.37	8.09	-	20.46	6.53	6.53	-	-	
OMIT STRUCTURE																
1147+48.00 TO 1147+98.00	50.00	26	144.44	144.44	-	2.78	144.44	12.37	8.09	-	20.46	-	-	2.85	2.85	
1147+98.00 TO 1184+86.00	3688.00	26	10654.22	-	10654.22	204.89	10654.22	912.17	596.64	-	1508.81	-	-	210.01	210.01	
1184+86.00 TO 1425+00.00	24014.00	26	69373.78	-	69373.78	1335.22	69431.56	5944.41	3888.17	-	9832.58	3140.44	3140.44	912.40	912.40	
1425+00.00 TO 1425+50.00	50.00	26	144.44	144.44	-	1.67	86.67	7.42	4.85	-	12.27	3.92	3.92	1.14	1.14	
SIDEROAD QUANTITIES (See Resurfacing Table - Sideroads)				484.32							81.37					
DRIVEWAYS & MAILBOX TURNOUTS QUANTITIES																
RT MAILBOX TURNOUT	45	9	40.44	-	-	-	-	-	-	8.7	-	-	-	-	2.2	
LT DRIVEWAY	30	12	49.33	-	-	-	-	-	-	8.3	-	-	-	-	-	
LT DRIVEWAY	20	12	36.00	-	-	-	-	-	-	6.0	-	-	-	-	-	
RT DRIVEWAY	24	12	41.33	-	-	-	-	-	-	6.9	-	-	-	-	-	
FIELD ENTRANCES (8 ENTRANCES)			192.89	-	-	-	-	-	-	-	-	-	-	-	32.95	
TOTALS				1062	97541	1889	98118	8400.6	5494.6	111.4	13895.2	3227.21	3223.29	1442.90	1479.79	
												TOTALS	6450.5	2923		

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES			
SCALE:	SHEET	OF	SHEETS
	STA.	TO	STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
665	140RS-4	WARREN	25	11
CONTRACT NO. 68814				
ILLINOIS FED. AID PROJECT				

RESURFACING TABLE - SIDEROADS						
LOCATION	AREA	HMA SURFACE REMOVAL - BUTT JOINT	INCIDENTAL HMA SURFACING	AGGREGAGE SURFACE COURSE, TYPE B	PCC DRIVEWAY PAVEMENT, 10"	TEMPORARY RAMP
	SQ YD	SQ YD	TON	TON	SQ YD	SQ YD
Begin Project Limits						
129th Street	103.43			17.66		
(N) 130th Street	171.03	171.03	28.73	2.28		26.7
(S) 130th Street	142.78	142.78	23.99	2.28		26.7
145th Street	93.83			16.02		
147th Street	117.44			20.06		
(N) 165th Street	144.44			24.67		
(S) 165 Street	170.51	170.51	28.65	2.28		26.7
175th Street	66.67			1.14	66.67	26.7
180th Street	123.52			21.09		
End Project limits						
TOTALS		484.32	81.37	108	67	106.67

CIR-FDR EMULSIFIED ASPHALT	
LOCATION	GALLON
CIP RECYCLING * 1.5 GAL/SY	147177
(98118 SY * 1.5 GAL/SY)	
TOTAL	147177

HMA SURFACE REMOVAL, 1"	
LOCATION	SQ YD
Gutter location	2751.1
TOTALS	2751

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES			
SCALE:	SHEET	OF	SHEETS

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665	140RS-4	WARREN	25	12
CONTRACT NO. 68814				
ILLINOIS FED. AID PROJECT				

MODIFIED URETHANE PAVEMENT MARKING - LINE 4" & TEMPORARY PAVEMENT MARKING - LINE 4"		
WHITE EDGE	FEET	
LT & RT 1084+28 TO 1425+50		
34,122 FT x 2 SIDES		
TOTAL WHITE =	68,244	68,244
YELLOW - NO PASSING		
RT STA 1128+50 TO 1139+00	1,050	
LT STA 1138+50 TO 1148+00	950	
RT STA 1151+90 TO 1159+80	790	
LT STA 1161+90 TO 1169+80	790	
RT STA 1167+00 TO 1174+70	770	
LT STA 1176+00 TO 1187+80	1,180	
RT STA 1268+80 TO 1273+80	500	
LT STA 1276+50 TO 1283+80	730	
RT STA 1408+00 TO 1420+30	1,230	
LT STA 1420+00 TO 1425+50	550	
TOTAL YELLOW - NO PASSING		8,540
YELLOW - SKIP DASH		
STA 1084+28 TO 1138+50	5,422	
STA 1139+00 TO 1167+00	2,800	
STA 1169+80 TO 1420+00	25,020	
STA 1420+30 TO 1425+50	520	
33762 x .25		
TOTAL YELLOW - SKIP DASH		8,441
TOTAL FT	85,225	

SHORT - TERM PAVEMENT MARKING*		
	FOOT	FOOT
STA 1084+28 TO 1425+50	34122.00	
34,122 x 10/100	3412.00	
(YELLOW) 3,412 x 4 APPLICATIONS		13648
RT 1139+86 TO 1145+90	604.00	
LT 1139+56 TO 1145+90	634.00	
1184+86 TO 1425+20	24034.00	
1425+20 TO 1425+50	30.00	
(25,302/100) * (4' per 100')	1012.00	
(WHITE) 1,012 x 4 APPLICATIONS		4048
TOTAL FT		17696

* If SHORT-TERM PAVEMENT MARKING does not adhere to the CIP Recycling Surface, paint shall be used.

SHORT - TERM PAVEMENT MARKING REMOVAL		
	FOOT	SQ FT
STA 1084+28 TO 1425+50	34122.00	
34,122 x 10/100	3412.00	
3,412 x .33 (YELLOW)		1126.00
RT 1139+86 TO 1145+90	604.00	
LT 1139+56 TO 1145+90	634.00	
1184+86 TO 1425+20	24034.00	
1425+20 TO 1425+50	30.00	
(25,302/100) * (4' per 100')	1012.00	
1012 x .33 (WHITE)		337.00
TOTAL SQ FT		1463.00

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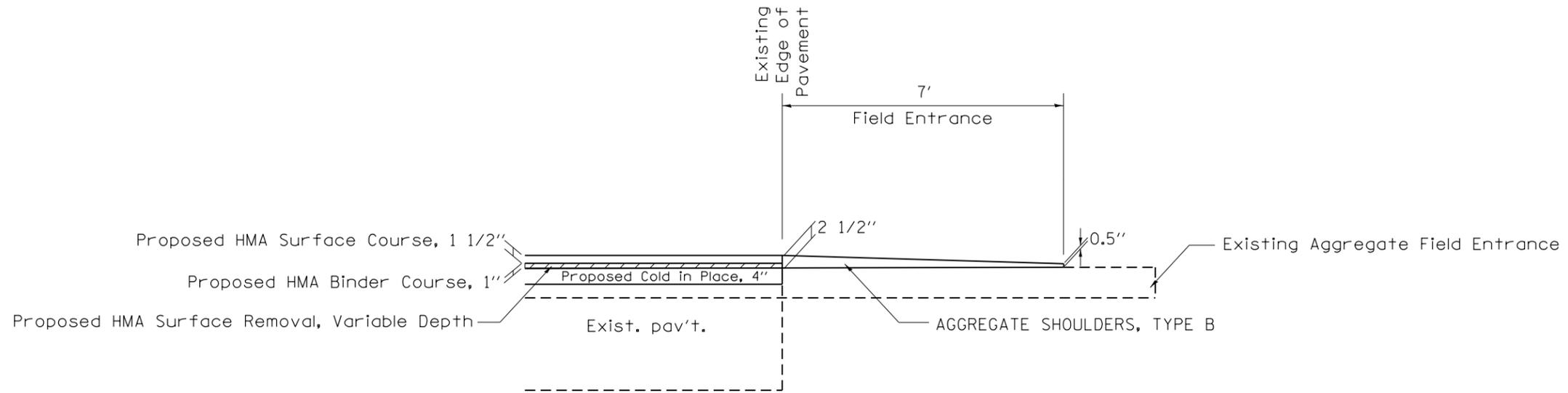
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES

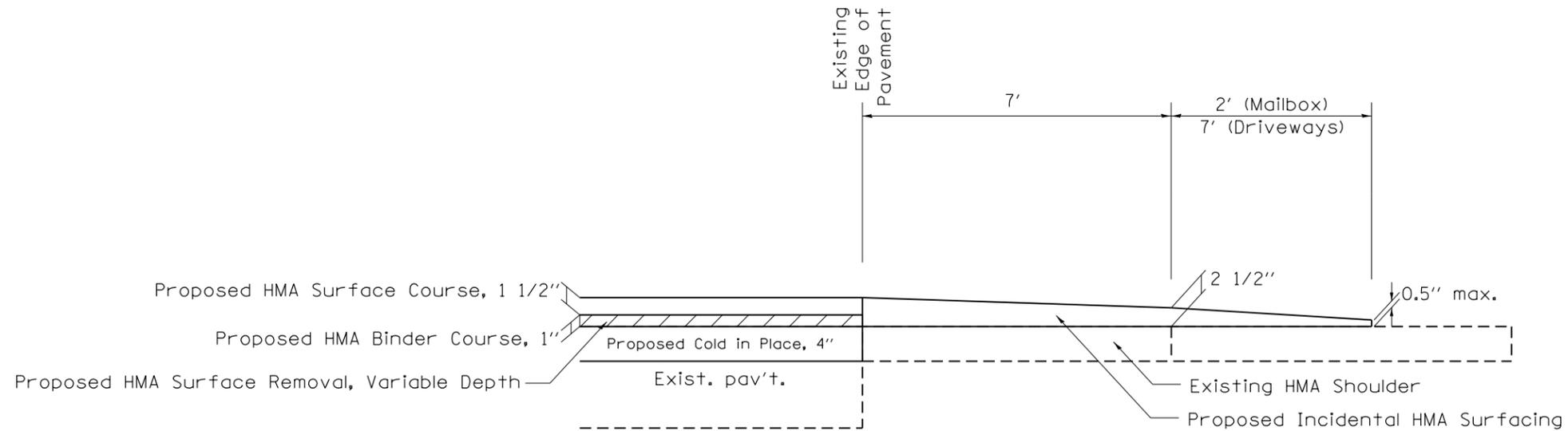
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
665	140RS-4	WARREN	25	13
CONTRACT NO. 68814				
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DETAIL at FIELD ENTRANCE

Note:
In locations where a bituminous shoulder exists,
AGGREGATE SHOULDERS, TY B will be placed at the
edge of the shoulder.

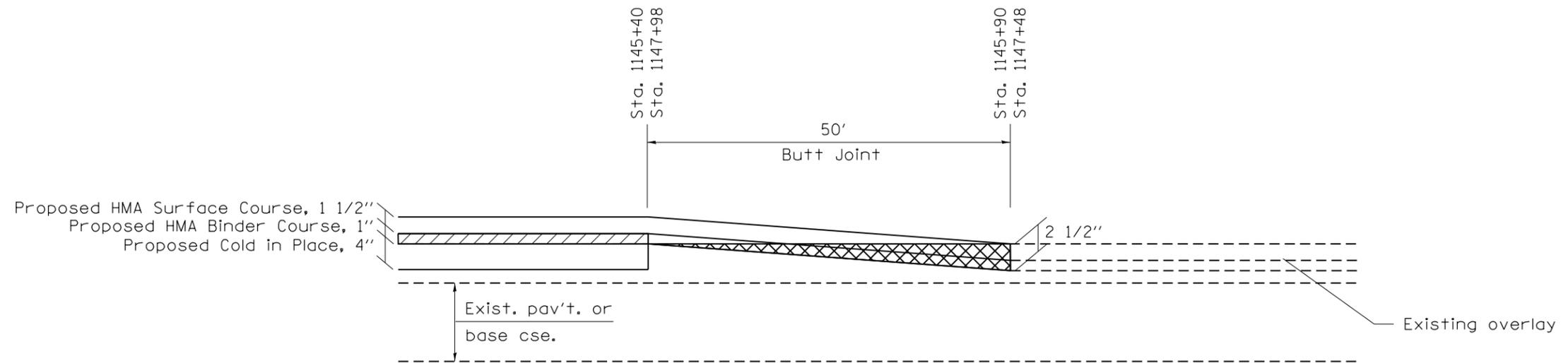


DETAIL at DRIVEWAYS & MAILBOX TURNOUTS*

* 2' AGGREGATE SHOULDERS, TYPE B (Wedge) will be placed in Mailbox Turnout locations

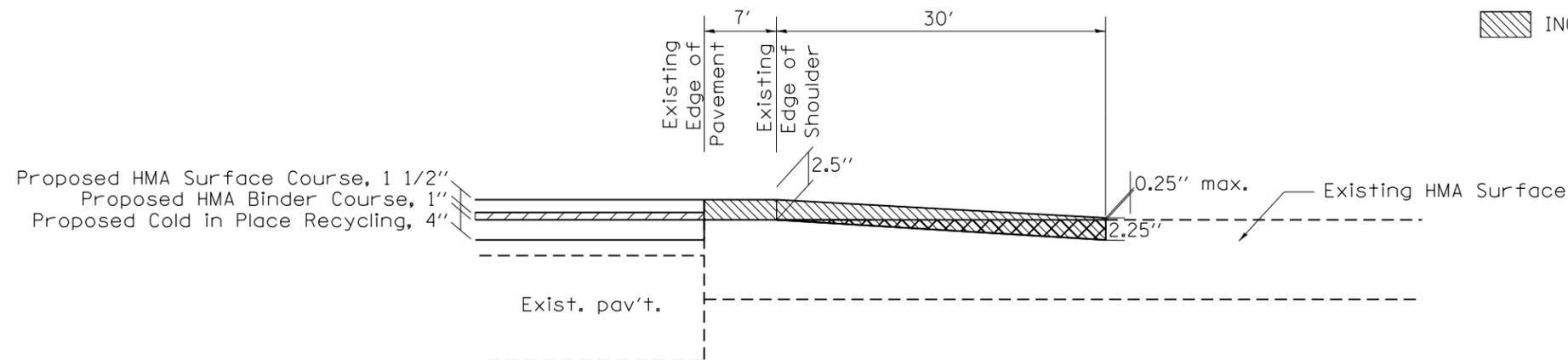
NOT TO SCALE

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	PLOT DATE = 12/12/2019	DATE -	REVISED -					ILLINOIS FED. AID PROJECT				



DETAIL at Transition to Structure Omission
Sta. 1145+40 to 1147+98

- HMA SURFACE REMOVAL, VARIABLE DEPTH
- HMA SURFACE REMOVAL - BUTT JOINT
- INCIDENTAL HMA SURFACING

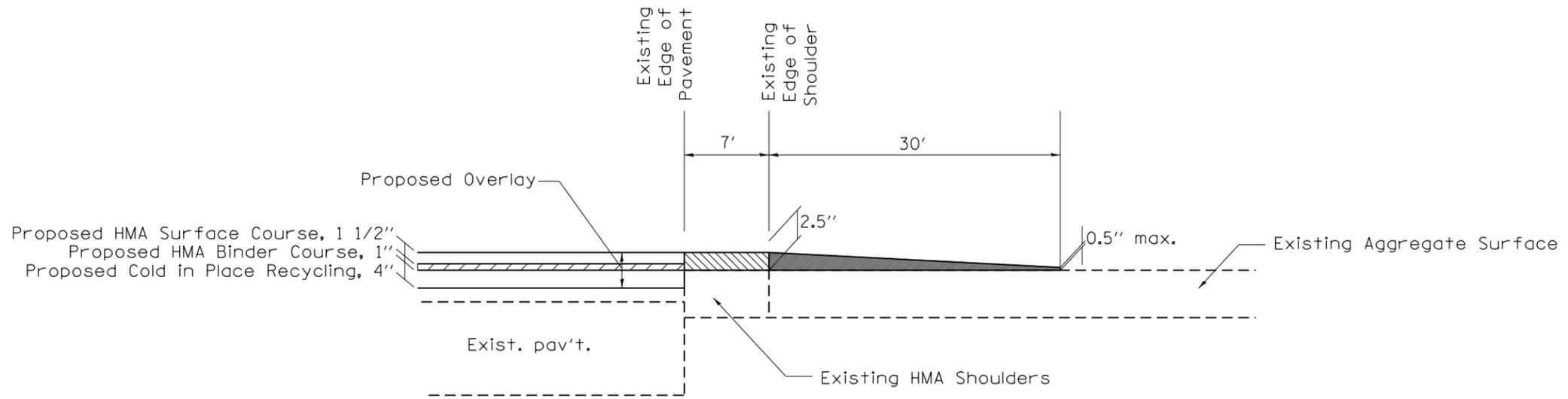


DETAIL at HMA SIDEROADS

(N) 130th Street
(S) 130th Street
(S) 165 Street

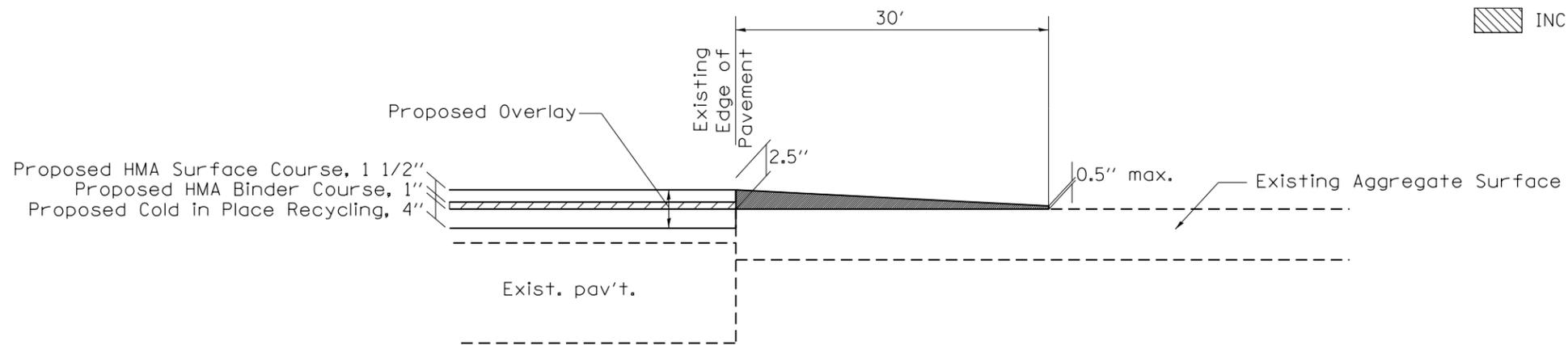
NOT TO SCALE

FILE NAME =	USER NAME = everscd	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRANSITION & SIDEROAD DETAIL			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw\plannerroom\dot\illinois.gov\PWIDOT\Documents\DOT	Files\District 4\Projects\D4_68814\CADData\CADDrawings\44888	DRAWN -	REVISED -					665	140RS-4	WARREN	25	15
Default	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -		CONTRACT NO. 68814							
	PLOT DATE = 12/12/2019	DATE -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.	ILLINOIS



DETAIL at AGGREGATE SIDEROADS w/ HMA SHOULDERS
 145th Street
 147th Street

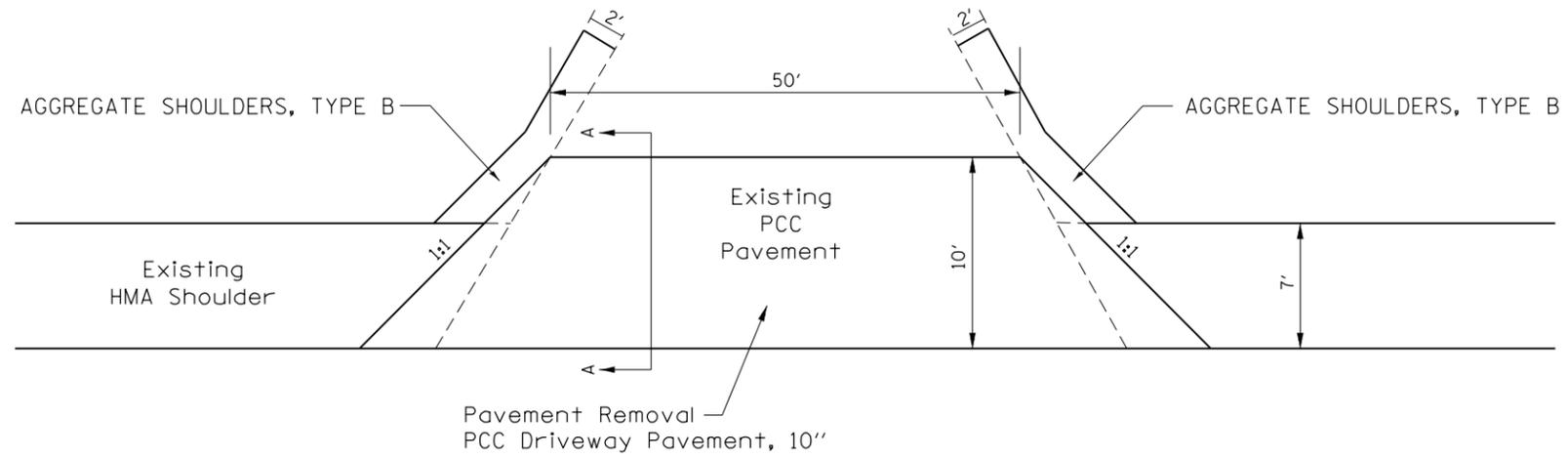
- HMA SURFACE REMOVAL, VARIABLE DEPTH
- AGGREGATE SURFACE COURSE, TYPE B
- INCIDENTAL HMA SURFACING



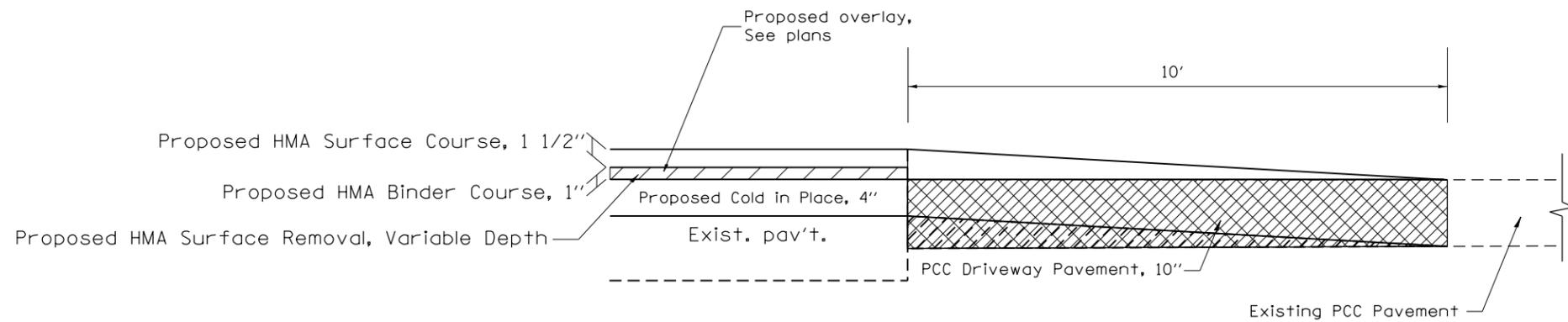
DETAIL at AGGREGATE SIDEROADS
 129th Street(N)
 (N) 165th Street
 (S) 180th Street

NOT TO SCALE

FILE NAME =	USER NAME = everscd	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SIDEROAD DETAIL	F.A.P. RTE. 665	SECTION 140RS-4	COUNTY WARREN	TOTAL SHEETS 25	SHEET NO. 16	
pw\plnroom\dot\illinois.gov\PWIDOT\Documents\DOT	Files\District 4\Projects\D4_68814\CADData\CADdrawings\D468814	DRAWN -	REVISED -			CONTRACT NO. 68814					
Default	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -			ILLINOIS FED. AID PROJECT					
	PLOT DATE = 12/12/2019	DATE -	REVISED -			SCALE:	SHEET OF SHEETS	STA. TO STA.			



PLAN



SECTION A-A

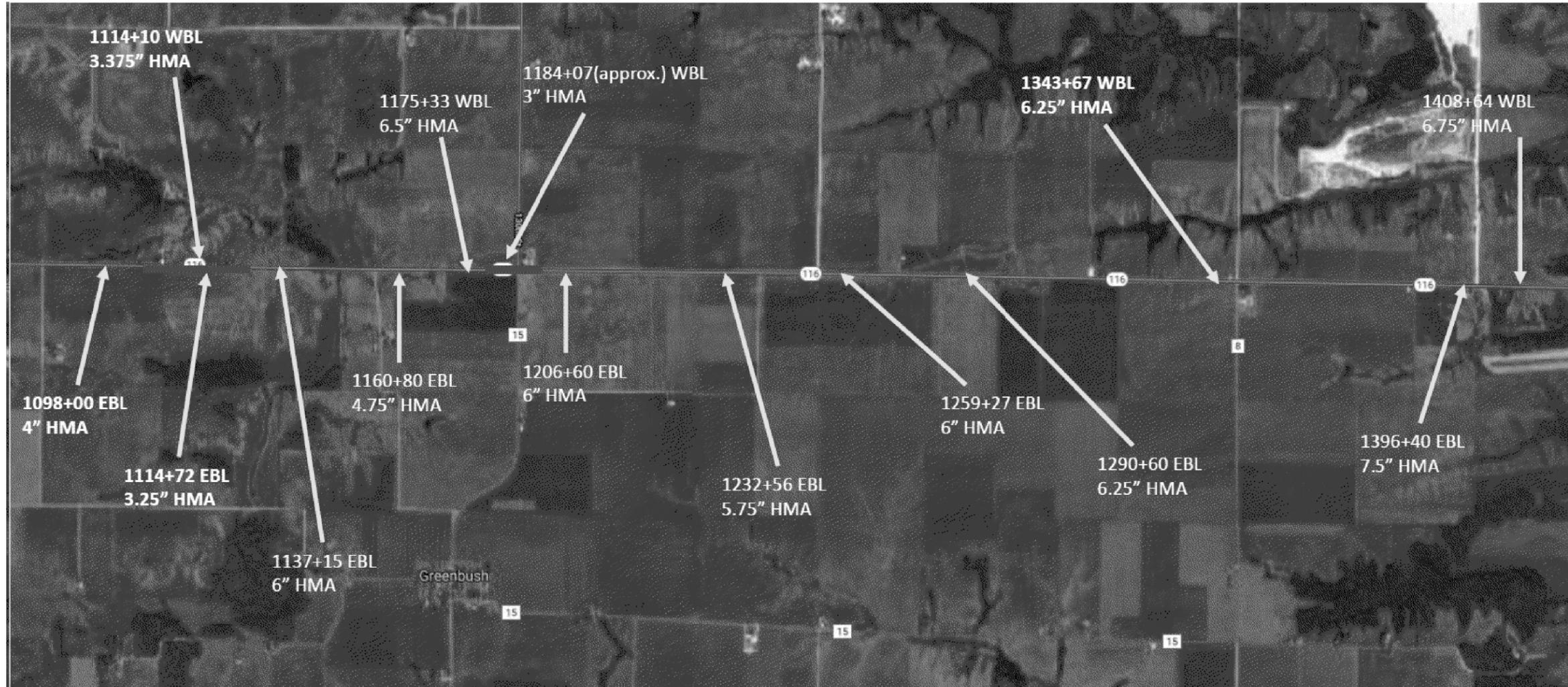
-  PAVEMENT REMOVAL
-  AGGREGATE BASE COURSE, TYPE B

NOTE:
 AGGREGATE BASE COURSE FOR THE REPLACEMENT OF THE PCC PAVEMENT, THE SAW CUT OF THE SIDEROAD FOR PAVEMENT REMOVAL AND EXCAVATION FOR THE SIDEROAD WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE COST OF THE PCC DRIVEWAY PAVEMENT AND PAVEMENT REMOVAL PAY ITEMS.

DETAIL at PCC Sideroad
 175th Street

NOT TO SCALE

FILE NAME =	USER NAME = everscl	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SIDEROAD DETAIL			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw:\planroom\dot\illinois.gov\PWIDOT\Documents\DOT	Files\District 4\Projects\D4_68814\CADData\CADdrawings\D468814	DRAWN -	REVISED -					665	140RS-4	WARREN	25	17
Default	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -		SCALE: SHEET OF SHEETS STA. TO STA.			CONTRACT NO. 68814				
	PLOT DATE = 12/12/2019	DATE -	REVISED -					ILLINOIS FED. AID PROJECT				

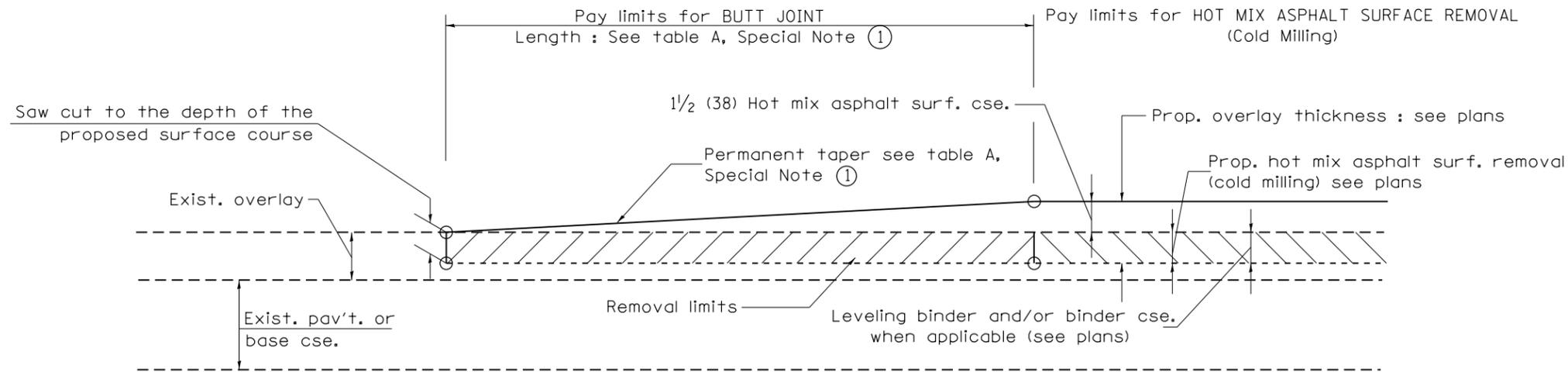


FILE NAME =	USER NAME = everscd	DESIGNED -	REVISED -
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Default	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 12/12/2019	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

CORE INFORMATION			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
665	140RS-4	WARREN	25	18
CONTRACT NO. 68814				
ILLINOIS FED. AID PROJECT				



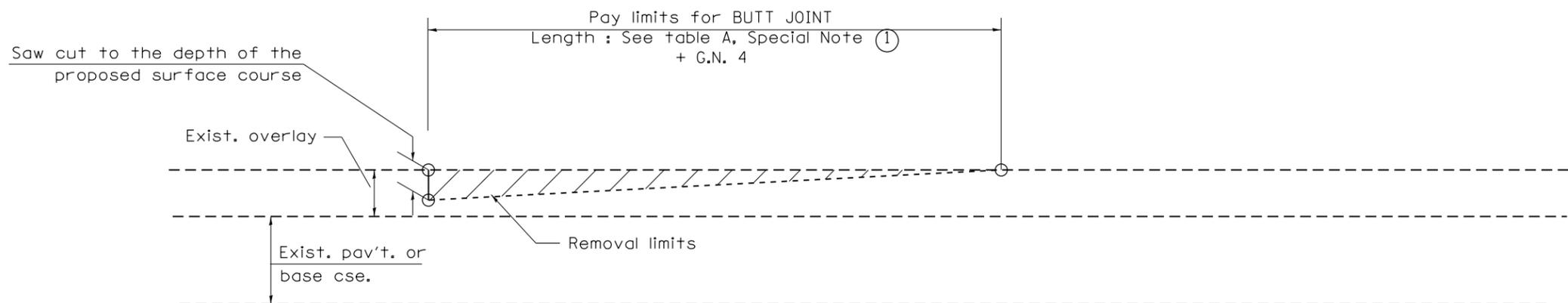
CASE 1 : WITH HOT MIX ASPHALT SURFACE REMOVAL (COLD MILLING)

**TABLE A
TAPER RATES**

SPECIAL NOTE NUMBER	ELEMENT	MAINLINE INTERSTATES & 4-LANE EXPRESSWAYS	ALL OTHERS
①	BUTT JOINT TAPER RATE	1:480	1:240
②	TEMPORARY RAMP TAPER RATE	1:80	1:40

GENERAL NOTES

1. The work shall be done in accordance with Article 406.08 and the Special Provision for Butt Joints.
2. 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.
3. 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.
4. The length of butt joint is based on the taper rate times change in cold milling depth within the butt joint pay limits, unless otherwise indicated.
5. Temporary ramps are paid for separately and not included in the cost of the butt joints.

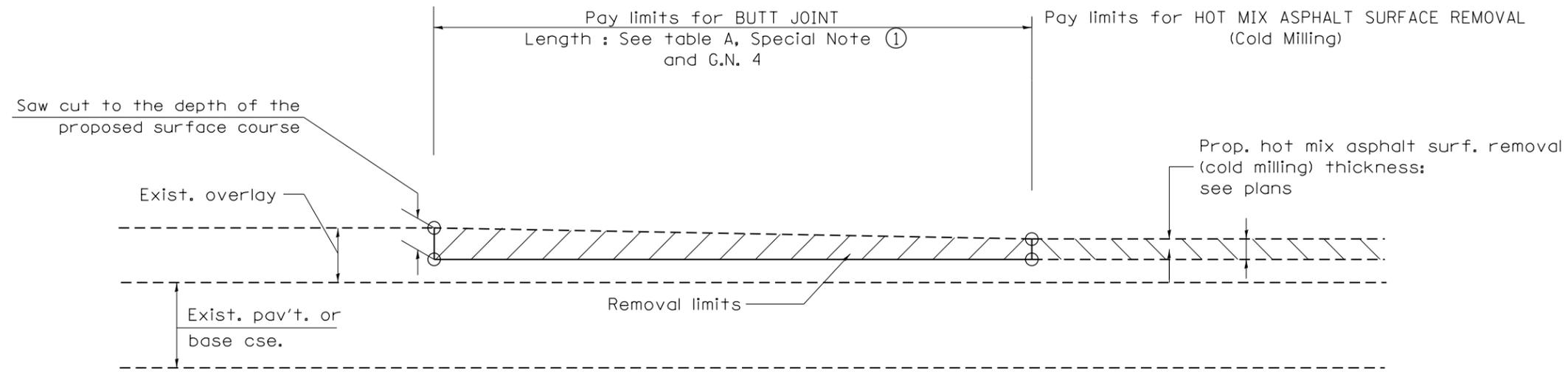


CASE 2 : NO HOT MIX ASPHALT SURFACE REMOVAL (COLD MILLING)

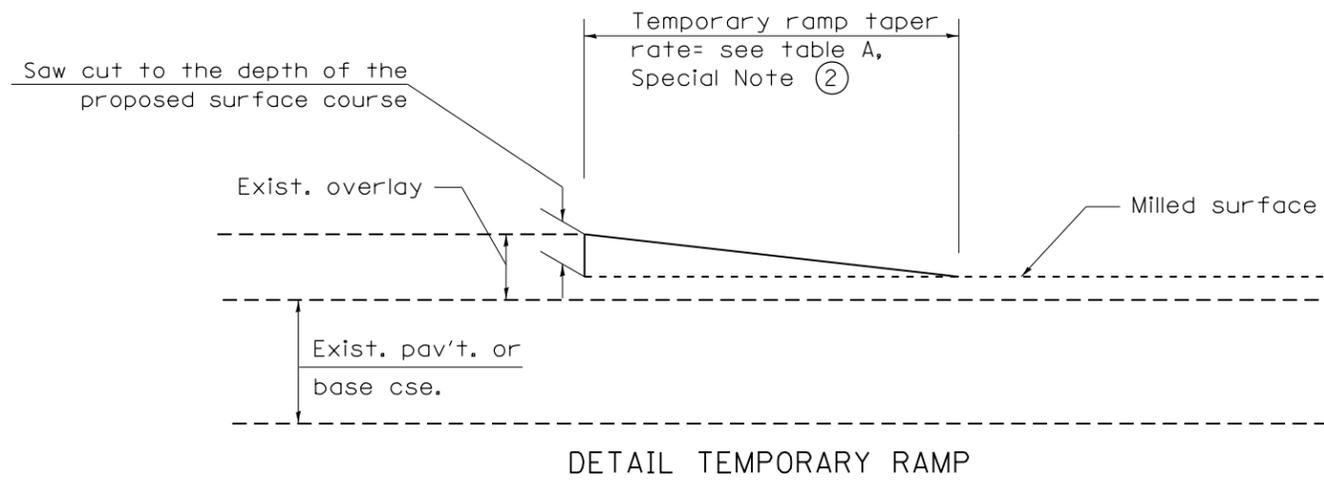
All dimensions are in inches (millimeters) unless otherwise noted.

01-01-97	RENUM. C-23.01, NEW REVISION BOX	T.P.	08-21-13	MAJOR MODIFICATIONS	R.D.	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	BUTT JOINTS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
04-01-97	CORRECTION TO DEPTH	J.A.	02-29-16	MINOR CORRECTIONS	R.D.			665	140RS-4	WARREN	25	19
09-15-05	REVISED DESIGNER NOTE	M.M.A.	04-12-16	MINOR CORRECTIONS	R.D.			SHT. 1 OF 3 CADD STD. 406101-D4				
10-16-06	REVISED TO 2007 SPEC.	M.A.	02-14-17	ADDED NOTE 5	R.D.			CONTRACT NO. 68814				

FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT

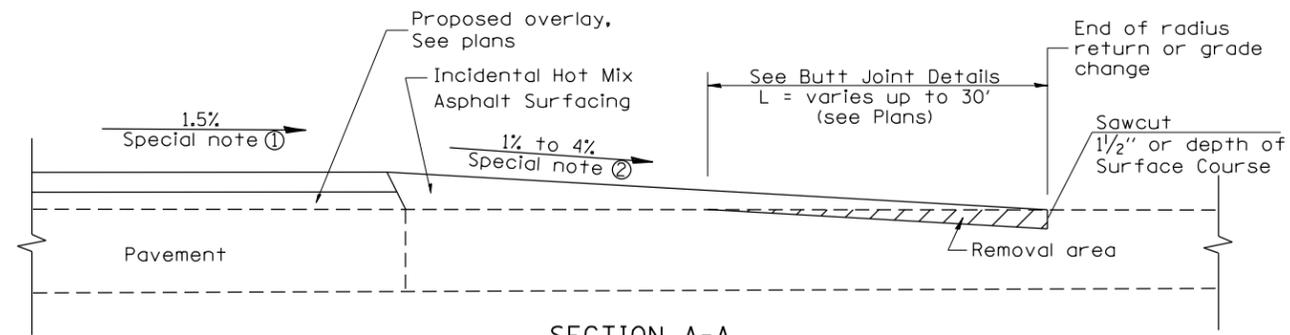


CASE 3 : HOT MIX ASPHALT SURFACE REMOVAL (COLD MILLING)
TIE-IN TO EXISTING BITUMINOUS TAPER

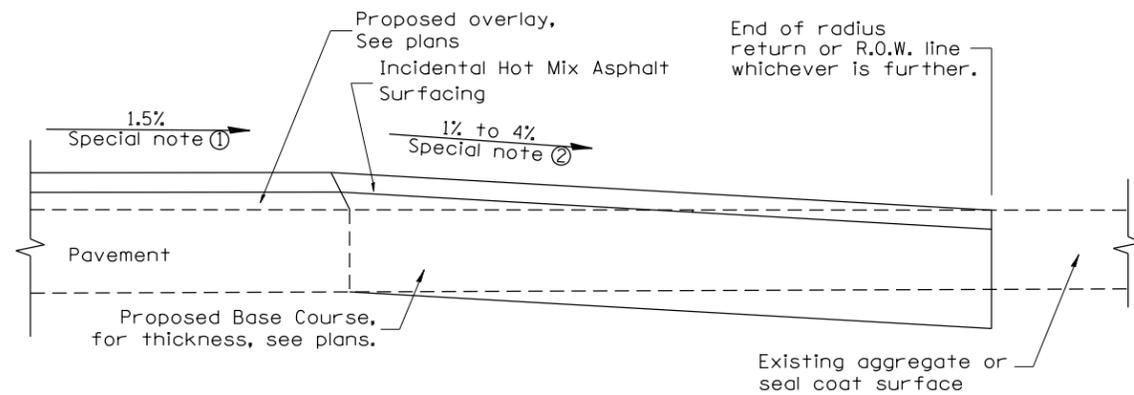


All dimensions are in inches (millimeters) unless otherwise noted.

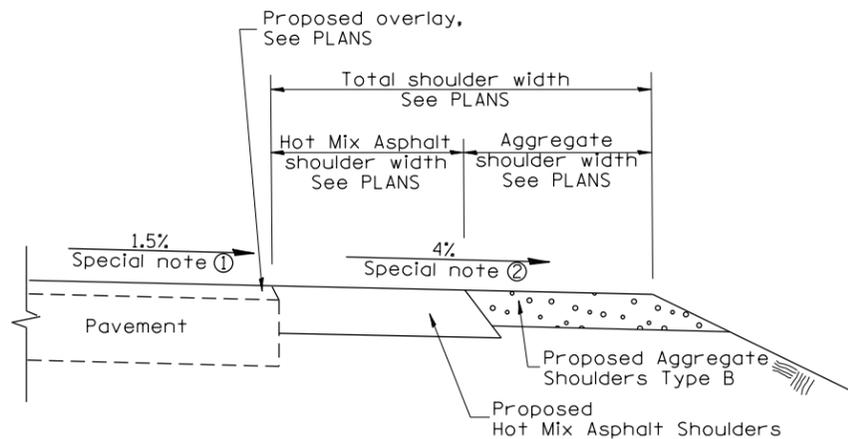
				STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		BUTT JOINTS		SHT. 2 OF 3 CADD STD. 406101-D4	
				NOT TO SCALE				CONTRACT NO. 68814	
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.					
665	140RS-4	WARREN	25	20					
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT							



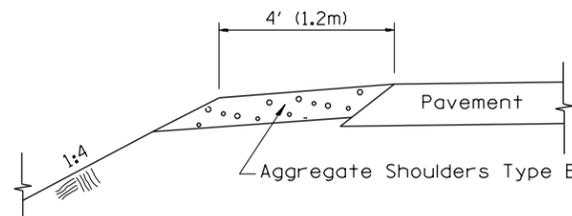
SECTION A-A
EXISTING PCC OR HOT MIX ASPHALT SIDEROAD



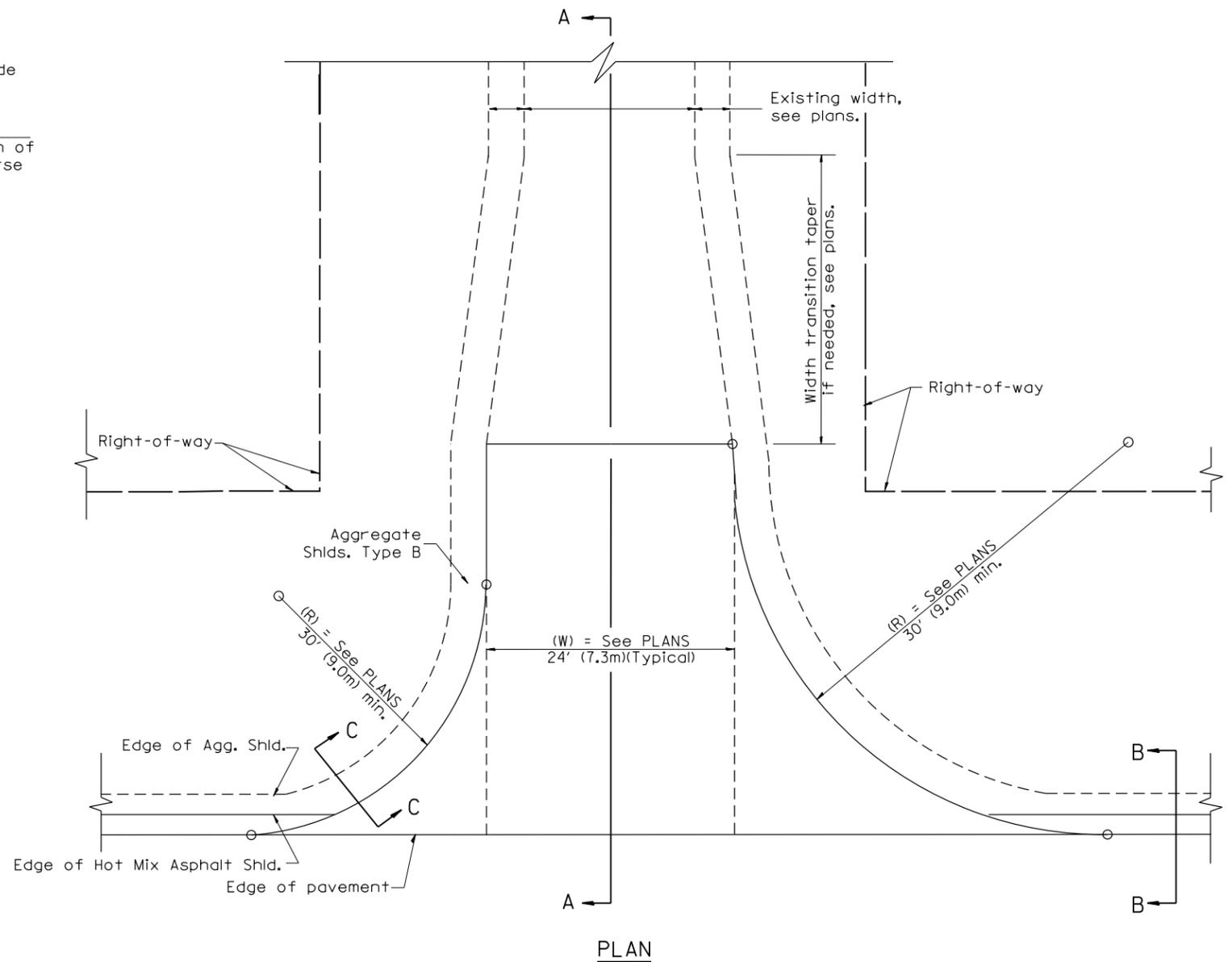
SECTION A-A
EXISTING AGGREGATE OR SEAL COAT SIDEROAD



SECTION B-B
MAINLINE SHOULDER TREATMENT



SECTION C-C
SIDEROAD SHOULDER TREATMENT



PLAN

SPECIAL NOTES

- ① The mainline pavement cross-slope is 1.5% for tangent alignment. See Plans for cross-slope on superelevated horizontal curves.
- ② The sideroad profile should drain away from the mainline at 1% to 4% for 50' (15.0m) to 100' (30.0m), or as a minimum to the end of the radius return. When the sideroad is on the high side of a mainline superelevated curve, - 2% maximum should be provided in order to minimize breakover at the pavement edge. See plans for sideroad profiles.

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

01-01-97	RENUM. C-105.02, NEW REVISION BOX	T.P.	02-14-17	MINOR REVISIONS	R.D.
07-01-97	REVISE DESIGNER NOTES	J.A.			
09-15-05	REVISED DESIGNER NOTE	M.M.A.			
10-16-06	REVISED TO 2007 SPEC.	M.A.			

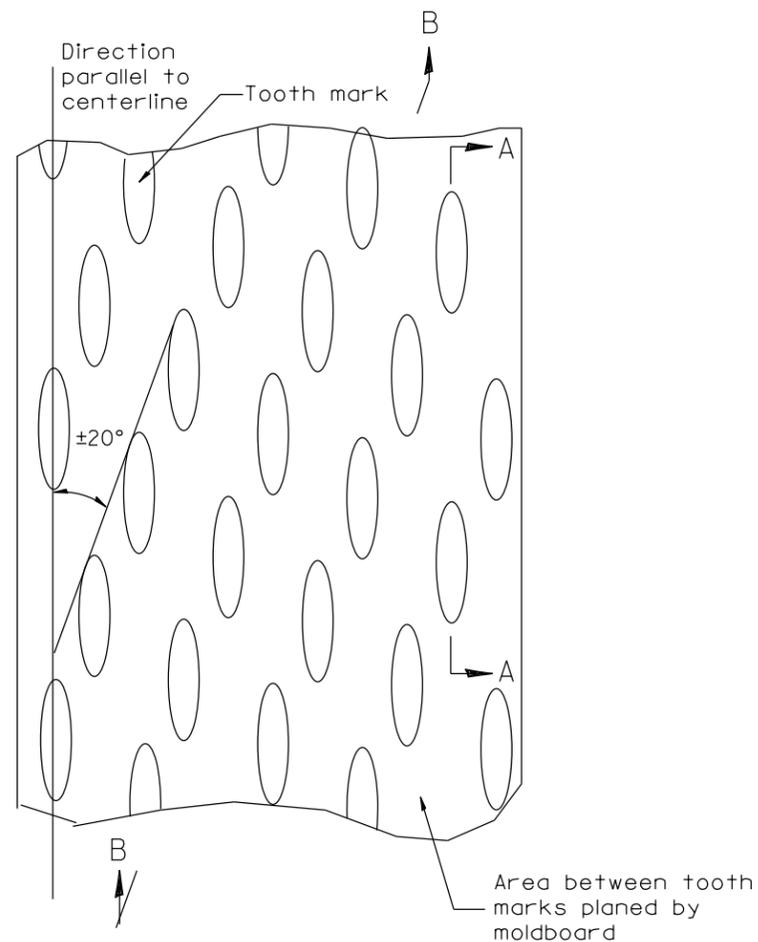
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

RURAL SIDEROADS FOR "3R" PROJECTS

NOT TO SCALE

CADD STD. 406401-D4

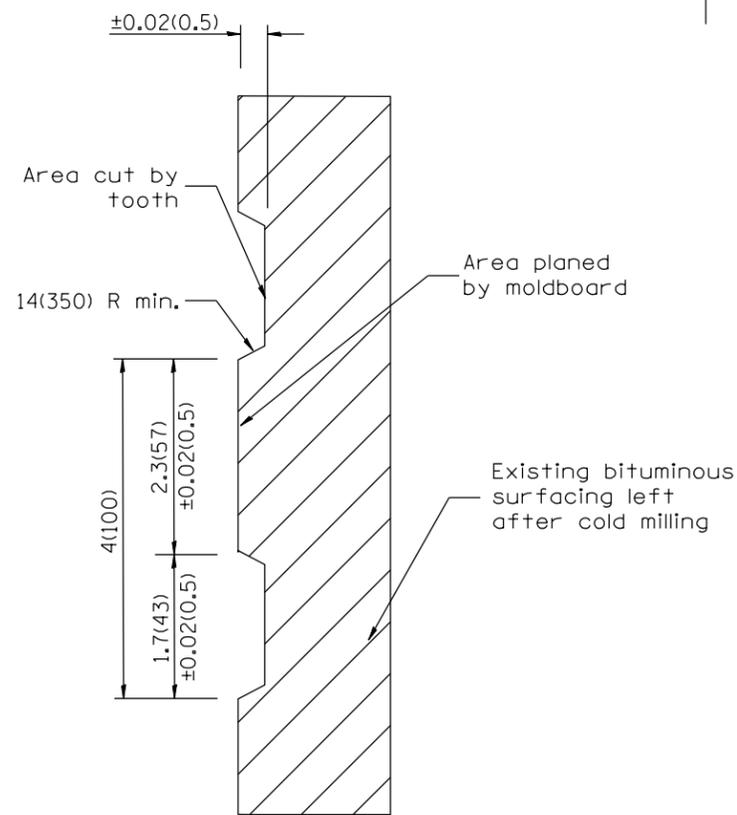
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
665	140RS-4	WARREN	25	22
CONTRACT NO. 68814				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



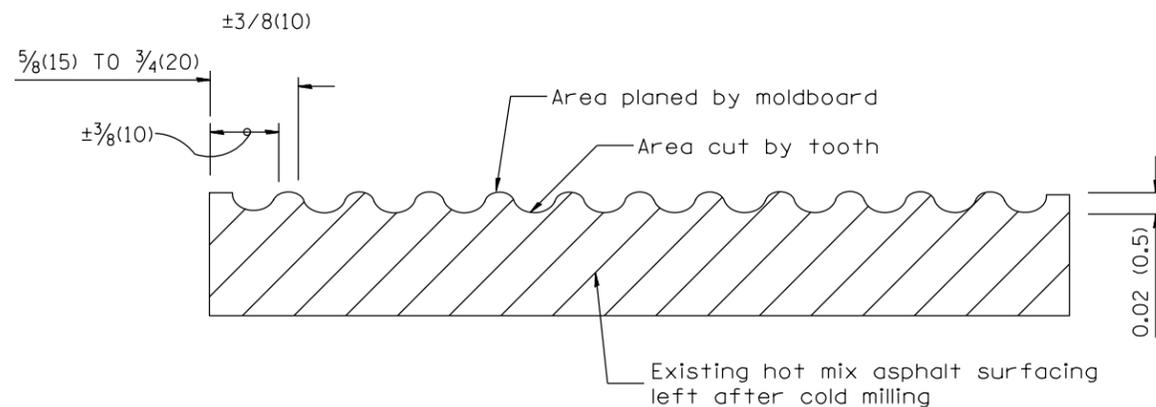
PLAN

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.



SECTION A-A



SECTION B-B PROJECTED PERPENDICULAR TO CENTERLINE

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.

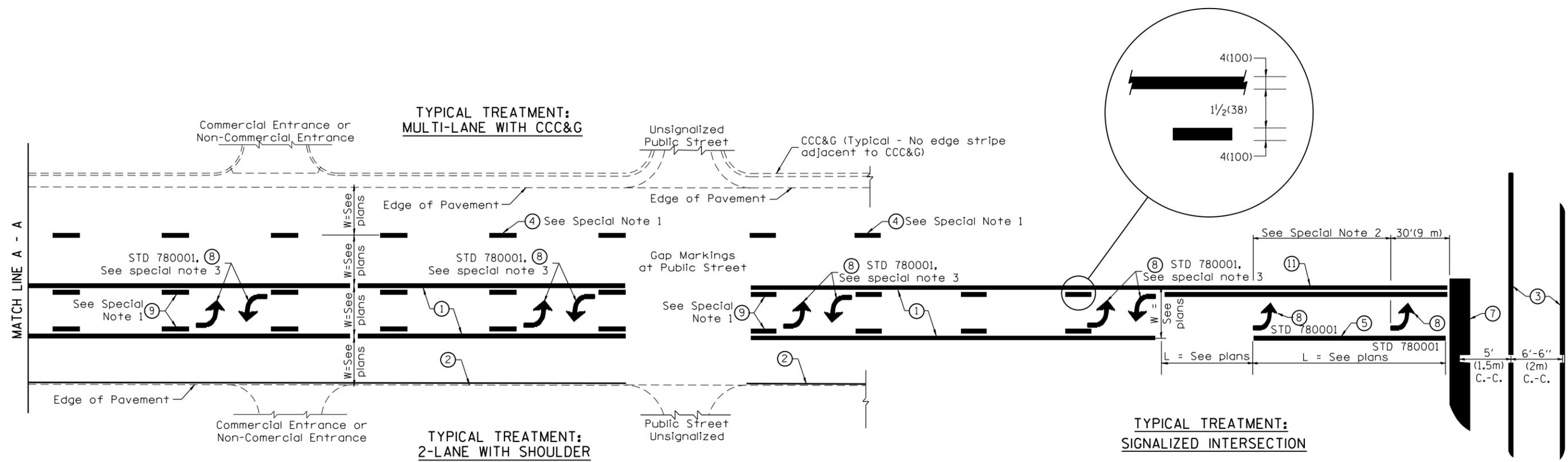
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

HOT MIX ASPHALT SURFACE REMOVAL (COLD MILLING)

NOT TO SCALE

CADD STD. 440001-D4

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
665	140RS-4	WARREN	25	23
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 68814	



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) ⑩
- ⑪ 4(100) Double Solid (Yellow) ⑪

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.
3. Refer to Article 780.13 for letter, number and symbol areas (sq. ft.)
4. Areas are grooved 1" beyond each edge for the following symbols:
Through Arrow= 14.8 sq. ft.
Large Left or Right Arrow= 21.9 sq. ft.
2 Arrow Combination Left (or Right) and Through= 34.9 sq. ft.
Wrong Way Arrow= 29.5 sq. ft.
Railroad Crossing Symbol= 69.8 sq. ft.
(For further information, refer to BDE Special Provision: Grooving for Recessed Pavement Markings)

01-01-97	RENUM. F-8.03, NEW REVISION BOX	T.P.	10-16-06	REVISED TO 2007 SPEC.		STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TYPICAL PAVEMENT MARKINGS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
02-07-97	ADD BI DIRECTIONAL DIMENSION	J.A.	2/29/16	ADDED GROOVING AREAS	R.D.			665	140RS-4	WARREN	25	24	
10-97	CORRECT BI DIRECTIONAL DIMENSION	J.A.						CONTRACT NO. 68814					
08-02	ADD CROSSWALK DMNS. WITH T.S.	M.A.						SHT. 1 OF 2 CADD STD. 780001-D4					

NOT TO SCALE

FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT

