

INDEX OF SHEETS

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FOR LIST OF HIGHWAY STANDARDS, SEE SHEET NO. 2.

PROPOSED IMPROVEMENT: *3 1/4"*
 THIS PROJECT CONSISTS OF 2.517 MILES OF 3 1/4" HMA OVERLAY, AGGREGATE SHOULDERS, INCIDENTAL HMA SURFACING AT SIDEROADS, PAVEMENT MARKINGS AND GUARDRAIL ADJUSTMENT.



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.

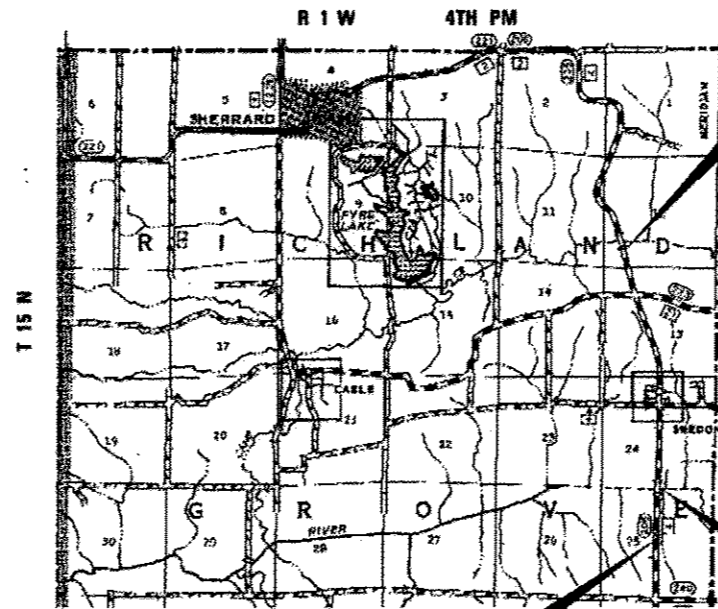
J.U.L.I.E.
 JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
 1-800-892-0123
 OR 811

PROJECT MANAGER: SHANE LARSON, P.E.
 PROJECT ENGINEER: RYAN BRADLE, P.E.
 CATALOG #033333-03D
 CONTRACT NO. 89615

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
**PROPOSED
 HIGHWAY PLANS**

FAS ROUTE 206 (CH 4)
 SECTION 05-00094-04-RS
 PROJECT RS-0206(119)
 ROADWAY RESURFACING
 MERCER COUNTY

C-94-033-12



BEGIN IMPROVEMENT
 STA 122 + 40.20

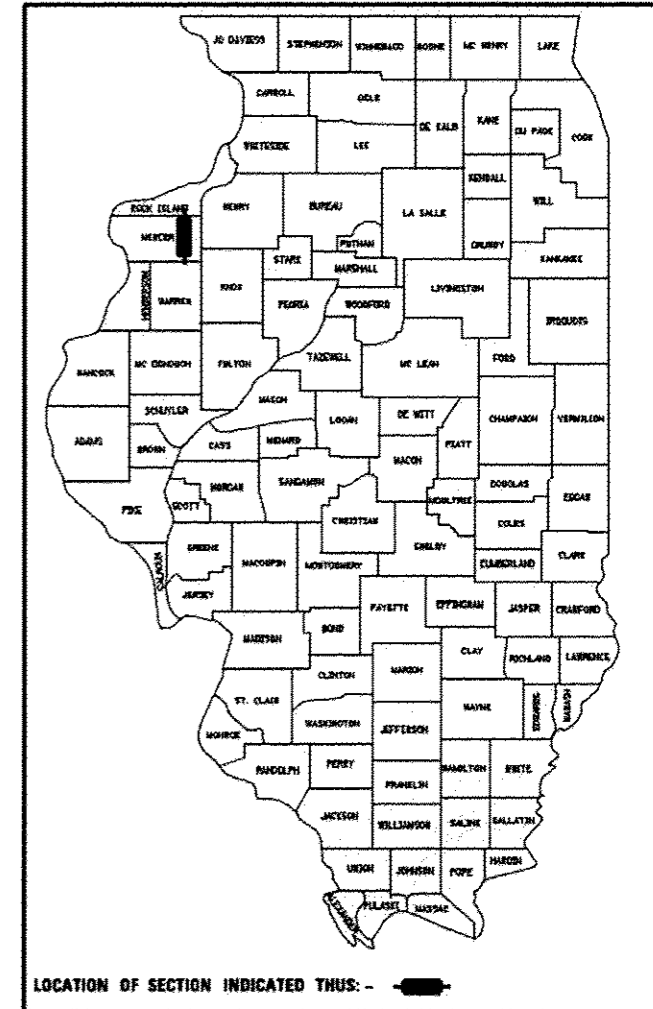
LOCATION MAP
 NOT TO SCALE

END IMPROVEMENT
 STA 257 + 10.06

BRIDGE OMISSION
 STA 243 + 80.57 TO
 STA 245 + 61.12

GROSS LENGTH = 13,469.86 FT. = 2.551 MILE
 NET LENGTH = 13,289.31 FT. = 2.517 MILE

F.A.S. RTE. 206	SECTION 05-00094-04-RS	COUNTY MERCER	TOTAL SHEETS 14	SHEET NO. 1
ILLINOIS			CONTRACT NO. 89615	



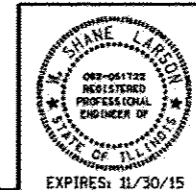
FUNCTIONAL CLASSIFICATION
 RURAL COLLECTOR
 2012 ADT = 1100
 DESIGN SPEED = 55 MPH
 PV = 88% SU = 7% MU = 5%

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS

APPROVED *3/10/14* COUNTY ENGINEER

PASSED *03/18/14* DISTRICT FOUR ENGINEER OF LOCAL ROADS AND STREETS

RELEASED FOR BID BASED ON LIMITED REVIEW *3/18/14* DEPUTY DIRECTOR OF HIGHWAYS, REGION THREE ENGINEER



Hutchinson Engineering, Inc.
 Jacksonville - Pearl - Shorewood
 Since 1945
 2014 JOB #3484

Shane Larson
 SIGNATURE
 ENGINEER'S SEAL

**PRINTED BY THE AUTHORITY
 OF THE STATE OF ILLINOIS**

GENERAL NOTES

THE HOT-MIX ASPHALT SURFACE OF ALL PRIVATE ENTRANCES, MAILBOX TURNOUTS AND SIDE ROADS SHALL BE MADE NEATLY, IN A WORKMANLIKE MANNER, AND SHALL ACCURATELY CONFORM TO THE SHAPES AND DIMENSIONS SHOWN ON THE PLAN DETAILS. IF REQUIRED BY THE ENGINEER, THE CONTRACTOR SHALL BE REQUIRED TO SAW CUT THE HOT-MIX ASPHALT SURFACE TO CONFORM TO THE SHAPES AND DIMENSIONS SHOWN ON THE PLAN DETAILS. THIS WORK SHALL BE INCLUDED IN THE COST OF INCIDENTAL HOT-MIX ASPHALT SURFACING.

THE ENGINEER WILL BE THE SOLE JUDGE CONCERNING CURING TIME FOR THE VARIOUS HOT-MIX ASPHALT LIFTS.

ALL ELEVATIONS REFERRING TO U.S.G.S. MEAN SEA LEVEL DATUM.

ANY REFERENCE TO A STANDARD IN THESE PLANS SHALL BE INTERPRETED TO MEAN THE EDITION AS INDICATED BY THE SUB-NUMBER SHOWN IN THE LIST OF STANDARDS OR THE COPY INCLUDED IN THESE PLANS.

NO WORK SHALL COMMENCE UNTIL TRAFFIC CONTROL REQUIREMENTS ARE MET AND APPROVED BY THE ENGINEER.

ALL SCHOOL DISTRICTS, LOCAL POLICE DEPARTMENTS AND FIRE DEPARTMENTS SHALL BE NOTIFIED BY THE CONTRACTOR AT LEAST TEN (10) DAYS PRIOR TO THE START OF CONSTRUCTION.

SAW CUTTING WILL BE REQUIRED FOR ALL REMOVAL ITEMS LISTED IN SECTION 440 OF THE STANDARD SPECIFICATIONS, SHOWN IN THE PLANS, AND AS DIRECTED BY THE ENGINEER. THE COST OF SAW CUTTING WILL BE INCLUDED IN CONTRACT UNIT BID PRICES FOR THE ITEMS BEING REMOVED.

WHERE SECTION OR SUB-SECTION MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL PROPERTY MARKERS AND MONUMENTS UNTIL THE OWNER, AN AUTHORIZED SURVEYOR OR AGENT HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION. ANY DAMAGE FOUND TO SURVEY MONUMENTS THAT WAS A RESULT OF THE CONTRACTOR'S OPERATIONS WILL BE REPAIRED AT THE EXPENSE OF THE CONTRACTOR.

THE CONTRACTOR WILL BE REQUIRED TO COMPLY WITH ALL STATE REGULATIONS REGARDING AIR, WATER AND NOISE POLLUTION. THE CONTRACTOR WILL NOT BE ALLOWED TO BUILD FIRES ON THE SITE.

IT IS THE CONTRACTOR'S RESPONSIBILITY TO ASCERTAIN EXISTING FIELD CONDITIONS BEFORE BIDDING ON THIS PROJECT.

BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR MUST CALL J.U.L.I.E. AT 1-800-892-0123 OR 811 FOR FIELD LOCATIONS OF BURIED ELECTRICAL, TELEPHONE, GAS FACILITIES, AND ALL PUBLIC UTILITIES. A 48 HOUR NOTIFICATION IS REQUIRED.

IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING MATERIALS.

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.

DURING CONSTRUCTION OPERATIONS, IF ANY LOOSE MATERIAL IS DEPOSITED IN THE FLOW LINE OF DITCHES, CUTTERS OR DRAINAGE STRUCTURES SO THAT THE NATURAL FLOW OF WATER IS OBSTRUCTED, IT SHALL BE REMOVED AT THE CLOSE OF EACH WORKING DAY. AT THE CONCLUSION OF CONSTRUCTION OPERATIONS, ALL DRAINAGE STRUCTURES SO AFFECTED SHALL BE FREE FROM ALL DEBRIS. THIS WORK SHALL BE INCLUDED IN THE COST OF THE CONTRACT.

TRAFFIC SIGNS REMOVED MUST BE RESET AT TEMPORARY LOCATIONS IN A WORKMANLIKE MANNER AND VISIBLE TO TRAFFIC ON THE ROADWAY AS DIRECTED BY THE ENGINEER. THE SIGNS SHALL BE RESET AT LOCATIONS DETERMINED BY THE ENGINEER AFTER CONSTRUCTION IS COMPLETE. THE COST OF SUCH WORK SHALL BE INCLUDED IN THE COST OF THE CONTRACT.

THE CONTRACTOR WILL BE RESPONSIBLE FOR ALL CONSTRUCTION LAYOUT. THE ENGINEER WILL TRANSFER ELECTRONIC FILES TO THE CONTRACTOR FOR CONSTRUCTION LAYOUT PURPOSES.

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.

THE CONTRACTOR SHALL USE REASONABLE CARE WHEN LOADING, UNLOADING, TURNING OR MOVING ANY EQUIPMENT OR MATERIAL THAT MAY DAMAGE THE EXISTING OR NEW ROADWAY, SIDEROADS OR ENTRANCES. SHOULD ANY ROADWAY OR ENTRANCE BECOME DAMAGED DUE TO THE CONTRACTOR'S OPERATIONS, THE CONTRACTOR SHALL REPAIR SUCH DAMAGE USING THE SAME MATERIAL AS IS EXISTING, AT HIS/HER EXPENSE, AS DIRECTED BY AND TO THE SATISFACTION OF THE ENGINEER.

THE CONTRACTOR SHALL NOT LEAVE A CENTERLINE DROPOFF BETWEEN THE HOT-MIX ASPHALT LIFTS IN EXCESS OF 2". TO ACCOMMODATE THE SPECIFIED LIFT THICKNESSES, THE CONTRACTOR WILL BE REQUIRED TO PAVE BOTH LANES WITHIN A GIVEN SEGMENT OF ROADWAY WITHIN THE SAME DAY. THE CONTRACTOR SHALL INCLUDE ANY ADDITIONAL EXPENSES CAUSED BY THIS RESTRICTION IN THE DIFFERENT HOT-MIX ASPHALT PAY ITEMS INCLUDED IN THIS CONTRACT.

EXISTING GUARDRAIL AND END SECTIONS ARE BEING REMOVED AND RE ERECTED TO ADJUST HEIGHT ABOVE PROPOSED PAVEMENT.

EXACT LOCATIONS AND DEPTHS FOR LEVELING BINDER (MACHINE METHOD), N50 AND HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH WILL BE PROVIDED BY THE RESIDENT ENGINEER.

PAVEMENT STATION 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 WIDE, 5 INCHES HIGH AND 5/8 INCH DEEP.

THE PAVEMENT STATION NUMBERS SHALL BE INSTALLED AS SPECIFIED HEREIN:

INTERVAL - 200 FEET

BOTTOM OF NUMBERS - 6 INCHES 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 - PAVEMENT STATIONS SHALL USE THIS FORMAT "xxx", WHERE X REPRESENTS THE PAVEMENT STATION

THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT WILL BE INCLUDED IN THE COST OF THE ASSOCIATED PAVEMENT AND/OR OVERLAY PAY ITEMS.

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 (CULTURAL AND NATURAL RESOURCES REVIEW OF BORROW AREAS)
- 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 - 04 P10101

PLEASE NOTE THAT A MINIMUM OF FOUR WEEKS SHALL BE ALLOWED FOR THE DISTRICT TO OBTAIN THE REQUIRED WASTE SITE ENVIRONMENTAL CLEARANCES AND FIVE WEEKS FOR THE REQUIRED BORROW SITE ENVIRONMENTAL CLEARANCES.

THE FOLLOWING RATES OF APPLICATION HAVE BEEN USED IN CALCULATING PLAN QUANTITIES:

GRANULAR MATERIALS	2.05 TONS/C.Y.
ASPHALT SURFACING	112 LBS/S.Y./IN
BITUMINOUS MATERIALS (PRIME COAT)	0.25 POUNDS/S.F.

HIGHWAY STANDARDS

000001-06	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
630001-10	STEEL PLATE BEAM GUARDRAIL
630301-06	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
631026-05	TRAFFIC BARRIER TERMINAL, TYPE 5
635006-03	REFLECTOR AND TERMINAL MARKER PLACEMENT
701006-05	OFF-RD OPERATIONS, 2L, 2W, 15' TO 24" FROM PAVEMENT EDGE
701201-04	LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS ≥ 45 MPH
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701306-03	LANE CLOSURE, 2L, 2W, SLOW MOVING OPERATIONS, DAY ONLY, FOR SPEEDS ≥ 45 MPH
701311-03	LANE CLOSURE, 2L, 2W, MOVING OPERATIONS, DAY ONLY
701901-03	TRAFFIC CONTROL DEVICES
720001-01	SIGN PANEL MOUNTING DETAILS
720006-04	SIGN PANEL ERECTION DETAILS
780001-04	TYPICAL PAVEMENT MARKINGS

HOT-MIX ASPHALT MIXTURE REQUIREMENTS

MIXTURE USE(S):	BINDER COURSE	SURFACE COURSE	LEVELING BINDER	INCIDENTAL HMA SURFACE
AC/PG:	PG 64-22	PG 64-22	PG 64-22	PG 64-22
RAP % (MAX):	25%	15%	15%	15%
DESIGN AIR VOIDS:	4% @ N50	4% @ N50	4% @ N50	4% @ N50
MIXTURE COMPOSITION: (GRADATION MIXTURE)	IL 19.0	IL 9.5	IL 9.5	IL 9.5
FRICTION AGGREGATE	N/A	MIX "C"	MIX "C"	MIX "C"

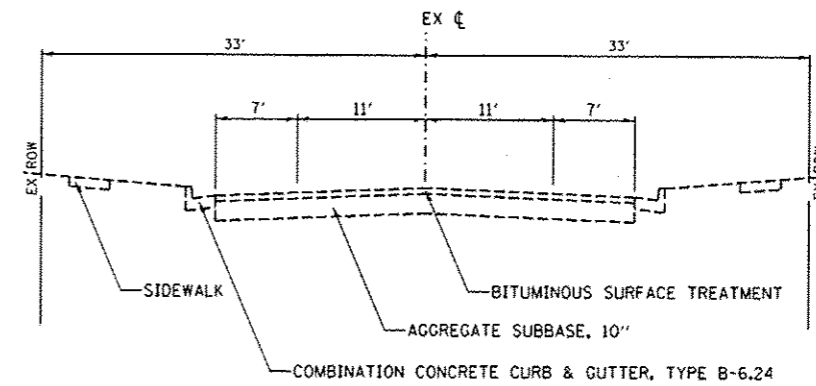
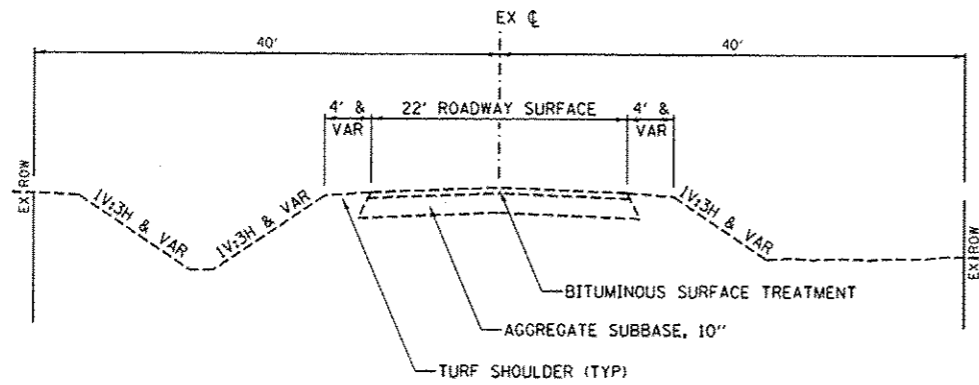
NOTE: INDIVIDUAL LIFT THICKNESS OF EACH TYPE WILL BE NO LESS THAN 3 TIMES NOMINAL MAXIMUM AGGREGATE SIZE AND NO MORE THAN 6 TIMES NOMINAL MAXIMUM AGGREGATE SIZE.

FILE NAME =	USER NAME = Shughes	DESIGNED - RMB	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	FAS RTE 206 (CH 4) HIGHWAY STANDARDS & GENERAL NOTES			F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
V:\3484 - Mercer Enty - CH 4 - FH HNCAD	ACADD Sheets\040904-04-RS-ant-gennote.dgn	DRAWN - SRH	REVISED -		206	05-00094-04-RS	MERCER	14	2			
	PLOT SCALE = 2.000' / 1" =	CHECKED - WSL	REVISED -		CONTRACT NO. 89615							
	PLOT DATE = 2/19/2014	DATE = 1/13/2014	REVISED -		SCALE: N/A	SHEET NO. 1 OF 1 SHEETS	STA. N/A	TO STA. N/A	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT		

SUMMARY OF QUANTITIES				
SPECIALTY ITEM &/OR SPECIAL PROVISION	CODE NO.	DESCRIPTION	UNIT	TOTAL QUANTITY
	31101000	SUBBASE GRANULAR MATERIAL, TYPE B	TON	269
	40200800	AGGREGATE SURFACE COURSE, TYPE B	TON	257
	40600625	LEVELING BINDER (MACHINE METHOD), N50	TON	2083
	40600895	CONSTRUCTING TEST STRIP	EACH	2
	40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	456
	40600990	TEMPORARY RAMP	SQ YD	122
	40603310	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	TON	2942
	40603080	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	TON	4205
	40800050	INCIDENTAL HOT-MIX ASPHALT SURFACING	TON	487
	48102100	AGGREGATE WEDGE SHOULDER, TYPE B	TON	2221
SI SP	63100167	TRAFFIC BARRIER TERMINAL, TYPE 1(SPECIAL) TANGENT	EACH	1
SI	63301210	REMOVE AND REERECT STEEL PLATE BEAM GUARDRAIL, TYPE A	FOOT	4485
SI	63301990	REMOVE AND REERECT TRAFFIC BARRIER TERMINALS, TYPE 1	EACH	13
SI	63302400	REMOVE AND REERECT TRAFFIC BARRIER TERMINALS, TYPE 5	EACH	6
	67100100	MOBILIZATION	L SUM	1
	72000100	SIGN PANEL - TYPE 1	SQ FT	64
	73000100	WOOD SIGN SUPPORT	FOOT	144
SI	78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	35808
SI	78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	1
SP	X4060110	BITUMINOUS MATERIALS (PRIME COAT)	POUND	84298
SP	X4060115	POLYMERIZED BITUMINOUS MATERIALS (PRIME COAT)	POUND	7409
SP	X4401198	HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH	SQ YD	11300
SP	X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1
SP	Z0013798	CONSTRUCTION LAYOUT	L SUM	1
SP	Z0034105	MATERIAL TRANSFER DEVICE	TON	2729

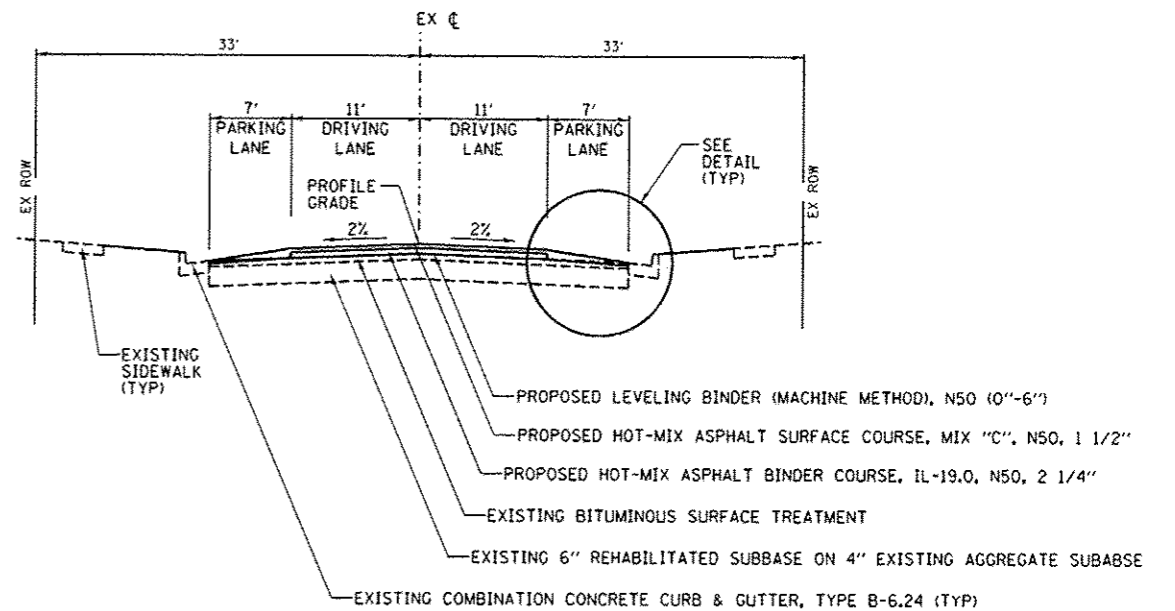
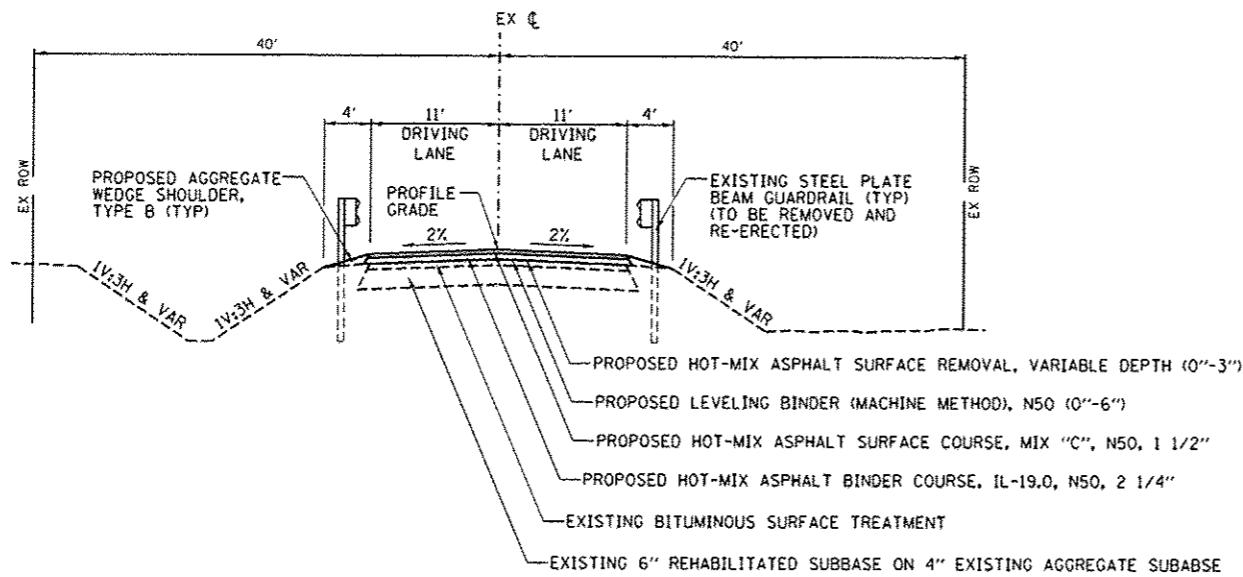
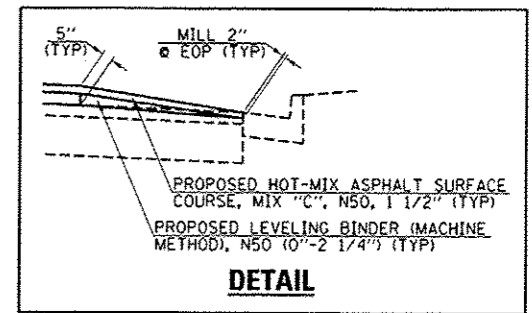
SP = SPECIAL PROVISION SI = SPECIALTY ITEM

FILE NAME =	USER NAME = SHughes	DESIGNED - RMB	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES				F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VA\3484 - Mercer Cnty - CH 4 - PH I\NCAD	NCADD Sheets\0489615-sh1-500.dgn	DRAWN - SRH	REVISED -		SCALE: N/A	SHEET NO. 1 OF 1 SHEETS	STA. N/A	TD STA. N/A	206	05-00094-04-RS	MERCER	14	3
	PLOT SCALE = 2.000 1/4" = 1'	CHECKED - WSL	REVISED -						CONTRACT NO. 89615				
	PLOT DATE = 3/17/2014	DATE - 1/13/2014	REVISED -		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT								



FAS RTE 206 (CH 4) STRUCTURAL PAVEMENT DESIGN

STRUCTURAL DESIGN TRAFFIC (S.D.T.) YEAR 2019
 PV = 1012 SU = 81 MU = 57
 CLASS III ROAD
 SUBGRADE = FAIR
 TRAFFIC FACTOR = 0.23
 PAVEMENT STRUCTURE MATERIALS:
 SURFACE COURSE TYPE: HOT-MIX ASPHALT, 1 1/2"
 BINDER COURSE TYPE: HOT-MIX ASPHALT, 2 1/4"
 SUB-BASE TYPE: EXISTING SUBBASE, 10"

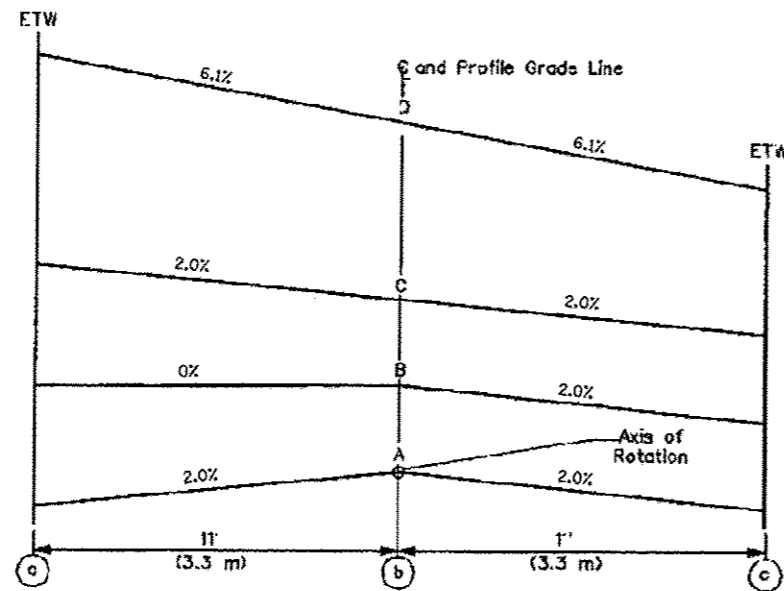
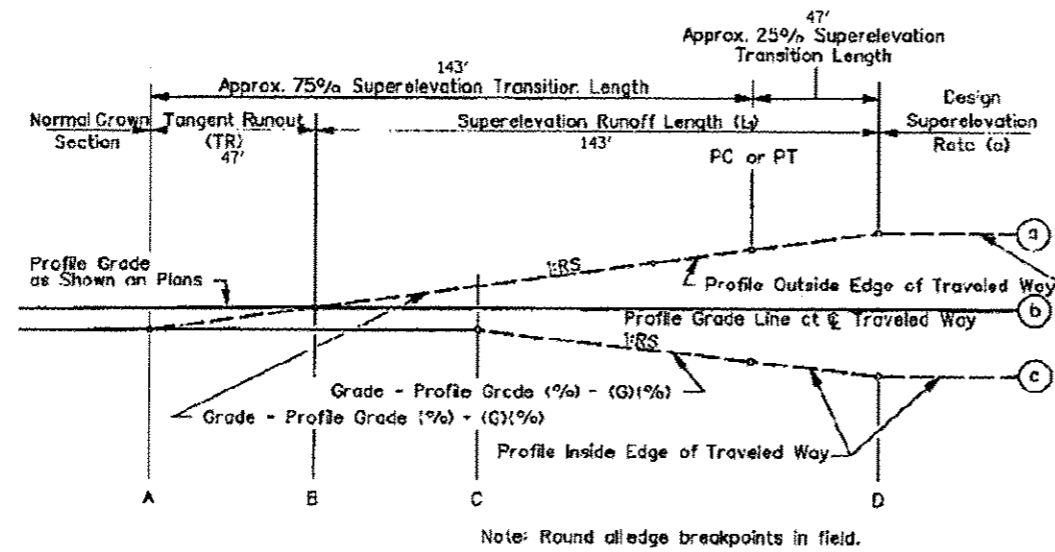


FILE NAME *	USER NAME * rbradle	DESIGNED - RMB	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	FAS RTE 206 (CH 4) TYPICAL SECTIONS			F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
V:\3484 - Mercer Cnty - CH 4 - PH II\CADD	Sheets\0489615-ht-typical-1.dgn	DRAWN - SRH	REVISED -		SCALE: N/A	SHEET NO. 1	OF 1 SHEETS	STA. N/A	TO STA. N/A	206	05-00094-04-RS	MERCER	14	4
	PLOT SCALE * 16.000' / 1" =	CHECKED - WSL	REVISED -											
	PLOT DATE * 3/7/2014	DATE - 1/13/2014	REVISED -											
ILLINOIS FED. AID PROJECT														

Jan 2006

BUREAU OF LOCAL ROADS & STREETS
HORIZONTAL ALIGNMENT

29-3(11)



AXIS OF ROTATION ABOUT CENTERLINE
(Two-Lane Highway)

Figure 29-3E

PROPOSED SUPERELEVATION TABLE			
SECTIONS	STA	LEFT	RIGHT
		SE	SE
A	176+85.20	-2.0%	-2.0%
B	177+32.20	0.0%	-2.0%
C	177+79.20	2.0%	-2.0%
PC	178+28.20		
D	178+75.20	6.1%	-6.1%
D	185+49.15	6.1%	-6.1%
PT	185+96.15		
C	186+45.15	2.0%	-2.0%
B	186+92.15	0.0%	-2.0%
A	187+39.15	-2.0%	-2.0%

ENTRANCE					
STATION	SIDE	TYPE	AGGREGATE SURFACE COURSE, TYPE B	BITUMINOUS MATERIALS (PRIME COAT) 0.25 LBS / SQ FT	INCIDENTAL HOT-MIX ASPHALT SURFACING
			TON	POUND	TON
126+56	RT	FE	13.8		
127+46	LT	FE	12.9		
140+87	RT	PE		140.2	12.2
141+01	LT	FE	18.3		
143+00	RT	FE	10.1		
145+00	RT	FE	10.3		
153+70	LT	PE		114.7	10.0
155+25	RT	FE	11.3		
160+79	RT	FE	10.9		
160+83	LT	PE		121.5	10.6
164+58	RT	PE		132.2	11.5
166+27	RT	FE	9.1		
170+32	LT	PE		143.0	12.5
171+43	RT	FE	11.6		
172+76	LT	PE		144.1	12.5
173+68	RT	FE	12.1		
175+56	LT	PE		177.4	15.5
177+00	LT	PE		113.2	9.9
178+39	LT	PE	10.8		
183+23	RT	PE		129.3	11.3
190+27	LT	FE	10.5		
190+79	RT	FE	13.3		
191+89	LT	FE	10.2		
194+24	LT	PE		137.1	11.9
198+88	LT	PE		82.5	5.4
198+93	RT	PE		53.9	4.7
201+81	LT	PE		99.3	8.7
202+08	LT	PE		56.6	4.9
202+51	LT	PE		61.8	5.4
203+15	LT	PE		61.6	5.4
205+19	RT	PE		124.9	10.9
205+98	RT	PE		309.4	26.9
206+98	RT	PE		153.6	13.4
212+41	RT	PE		151.1	13.2
212+44	LT	FE	15.1		
218+25	LT	FE	11.9		
223+94	LT	FE	12.2		
224+92	RT	PE		137.7	12.0
226+50	RT	FE	10.8		
230+18	RT	PE		122.4	10.7
232+40	LT	PE		131.1	11.4
233+71	RT	FE	11.0		
256+81	LT	FE	17.6		
256+92	RT	FE	12.9		
TOTAL			256.6	2878.6	250.7
USE			257	2879	251

BUTT JOINTS & SIDEROAD PAVEMENT					
LOCATION / SIDE			HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	BITUMINOUS MATERIALS (PRIME COAT) 0.25 LBS / SQ FT	INCIDENTAL HOT-MIX ASPHALT SURFACING
STATION	TO	STATION	SQ YD	POUND	TON
FAS RTE 206 (CH 4)					
122+40	TO	122+70	73.3		
243+50	TO	243+80	73.3		
245+61	TO	245+91	73.3		
256+80	TO	257+10	73.3		
CAMP CREEK RD					
LT			26.7	454.2	45.2
RT			26.7	374.4	37.3
150TH AVE					
RT			13.3	136.7	13.6
149TH AVE					
LT			12.8	46.9	4.7
RT			12.8	64.8	6.5
148TH AVE					
LT			13.3	52.3	5.2
RT			14.4	71.6	7.1
MEADOWS GATE RD					
LT			21.1	303.3	30.2
RT			21.1	355.9	35.4
TOTAL			455.4	1860.1	185.2
USE			456	1861	186

MAILBOX TURNOUTS				
STATION	SIDE	BITUMINOUS MATERIALS (PRIME COAT) 0.25 LBS / SQ FT	INCIDENTAL HOT-MIX ASPHALT SURFACING	
		POUND	TON	
183+06	RT	69.3	8.6	
205+66	RT	67.0	8.3	
206+79	RT	62.5	7.8	
212+16	RT	75.0	9.3	
225+16	RT	64.5	8.0	
230+02	RT	56.3	7.0	
TOTAL		394.6	49.1	
USE		395	50	

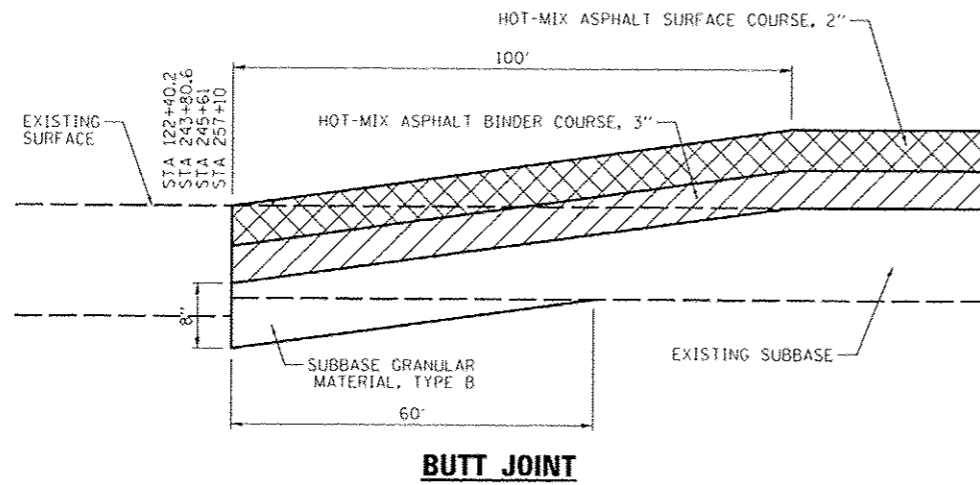
MAINLINE PAVEMENT										
LOCATION			BITUMINOUS MATERIALS (PRIME COAT) 0.25 LBS / SQ FT	POLYMERIZED BITUMINOUS MATERIALS (PRIME COAT) 0.025 LBS / SQ FT	LEVELING BINDER (MACHINE METHOD), N50	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	AGGREGATE WEDGE SHOULDER, TYPE B	MATERIAL TRANSFER DEVICE	HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH
STATION	TO	STATION	POUND	POUND	TON	TON	TON	TON	TON	SQ YD
FAS RTE 206 (CH 4)										
122+40.2	TO	194+02	40822.3	3992.7	854.0	2266.0	1470.6	1282.0	1470.6	9783.0
194+02	TO	203+77	5567.5	543.6	173.0	308.5	200.2	50.8	200.2	
203+77	TO	243+80.6	22820.5	2232.0	774.0	1286.7	822.1	705.2	822.1	
245+61	TO	257+10	6549.3	640.6	282.0	383.5	235.9	202.6	235.9	
PARKING LANES (194+02 TO 203+77)										
LT			1708.3				106.2			758.3
RT			1708.3				106.2			758.3
TOTAL			79162.2	7408.9	2083.0	4204.7	2941.2	2220.6	2728.8	11299.6
USE			79163	7409	2083	4205	2942	2221	2729	11300

TEMPORARY RAMP			
STATION	SB LANE	NB LANE	
	TEMPORARY RAMP SQ YD		
⊙ BUTT JOINTS			
122+40	6.1		6.1
243+80.6	6.1		6.1
245+61	6.1		6.1
257+10	6.1		6.1
AFTER LEVELING BINDER			
	12.2		12.2
AFTER BINDER COURSE			
	12.2		12.2
AFTER SURFACE COURSE			
	12.2		12.2
TOTAL			
USE		122.0	
		122	

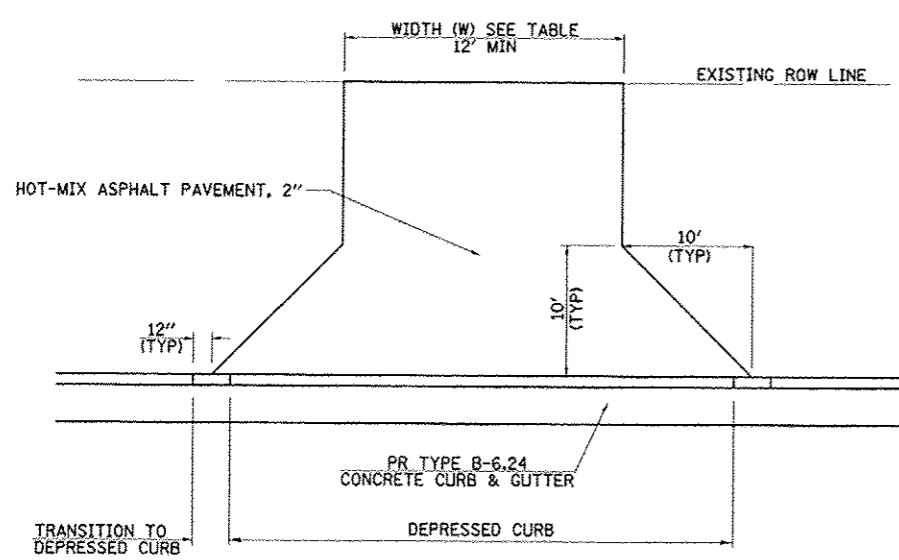
GUARDRAIL								
STATION	TO	STATION	SIDE	REMOVE AND REERECT STEEL PLATE BEAM GUARDRAIL, TYPE A	REMOVE AND REERECT TRAFFIC BARRIER TERMINAL, TYPE 1	REMOVE AND REERECT TRAFFIC BARRIER TERMINAL, TYPE 5	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	TERMINAL MARKER- DIRECT APPLIED
				FOOT	EACH	EACH	EACH	EACH
122+40.0	TO	122+54.0	RT			1.0		
122+40.0	TO	122+54.0	LT			1.0		
122+54.0	TO	123+04.0	LT		1.0			
122+54.0	TO	123+04.0	RT		1.0			
128+62.5	TO	129+12.5	RT		1.0			
129+12.5	TO	133+12.5	RT	400.0				
133+12.5	TO	133+62.5	RT		1.0			
176+72.5	TO	179+12.5	LT		1.0			
179+12.5	TO	182+10.0	LT	297.5				
182+10.0	TO	182+60.0	LT		1.0			
190+38.5	TO	190+88.5	LT		1.0			
190+88.5	TO	191+38.5	LT	50.0				
191+38.5	TO	191+88.5	LT		1.0			
233+85.0	TO	234+35.0	RT		1.0			
234+35.0	TO	242+72.5	RT	837.5				
234+68.0	TO	235+18.0	LT		1.0			
235+18.0	TO	243+05.5	LT	787.5				
242+72.5	TO	243+22.5	RT		1.0			
243+05.5	TO	243+55.5	LT		1.0			
243+52.0	TO	243+66.0	RT	25.0				
243+68.0	TO	243+80.0	LT			1.0		
243+66.0	TO	243+80.0	RT			1.0		
245+61.0	TO	245+75.0	LT			1.0		
245+61.0	TO	245+75.0	RT			1.0		
245+75.7	TO	256+13.2	LT	1037.5				
245+75.7	TO	256+25.7	RT	1050.0				
256+25.8	TO	256+75.8			1.0			
256+13.2	TO	256+63.2	LT				1.0	
		256+63.2	LT					1.0
TOTAL				4485.0	13.0	6.0	1.0	1.0
USE				4485	13	6	1	1

SUBBASE GRANULAR MATERIAL, TYPE B			
STATION	TO	STATION	SUBBASE GRANULAR MATERIAL, TYPE B
			TON
122+40.2	TO	123+00.2	67.1
243+20.6	TO	243+80.6	67.1
245+61.0	TO	246+21.0	67.1
256+50.0	TO	257+10.0	67.1
TOTAL			268.4
USE			269

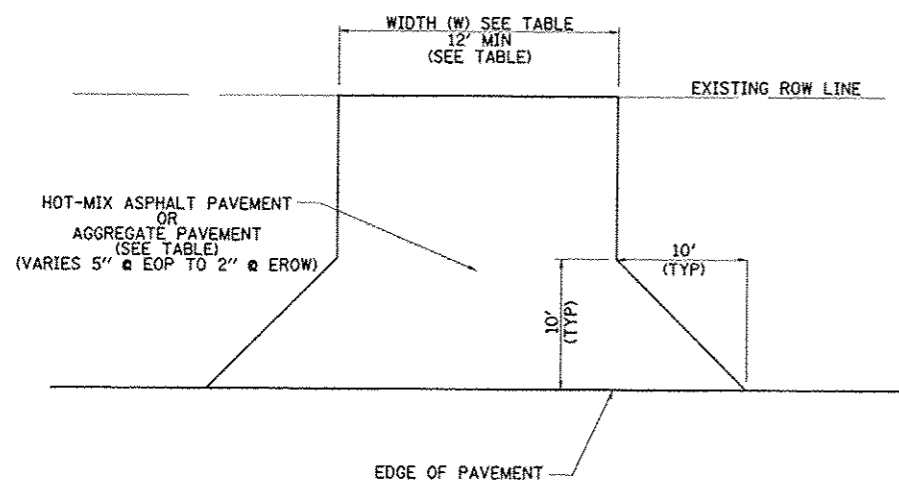
PAVEMENT MARKING, SIGNS & SIGN SUPPORT								
STATION	TO	STATION	PAINT PAVEMENT MARKING - LINE 4"				SIGN PANEL TYPE 1	WOOD SIGN SUPPORT
			SOLID		DOUBLE	SKIP		
			WHITE	YELLOW				
			NB EOP	SB EOP	CL NO PASS	CL PASS	SQ FT	FOOT
			FOOT					
122+40	TO	194+02	7162.0	7162.0	4000.0	1780.5	32.0	72.0
194+02	TO	203+77	975.0	975.0	1950.0		32.0	72.0
203+77	TO	243+80.6	4003.6	4003.6		1000.9		
245+61	TO	257+10	1149.0	1149.0		287.3		
TOTAL			35607.9				64.0	144.0
USE			35608				64	144



BUTT JOINT



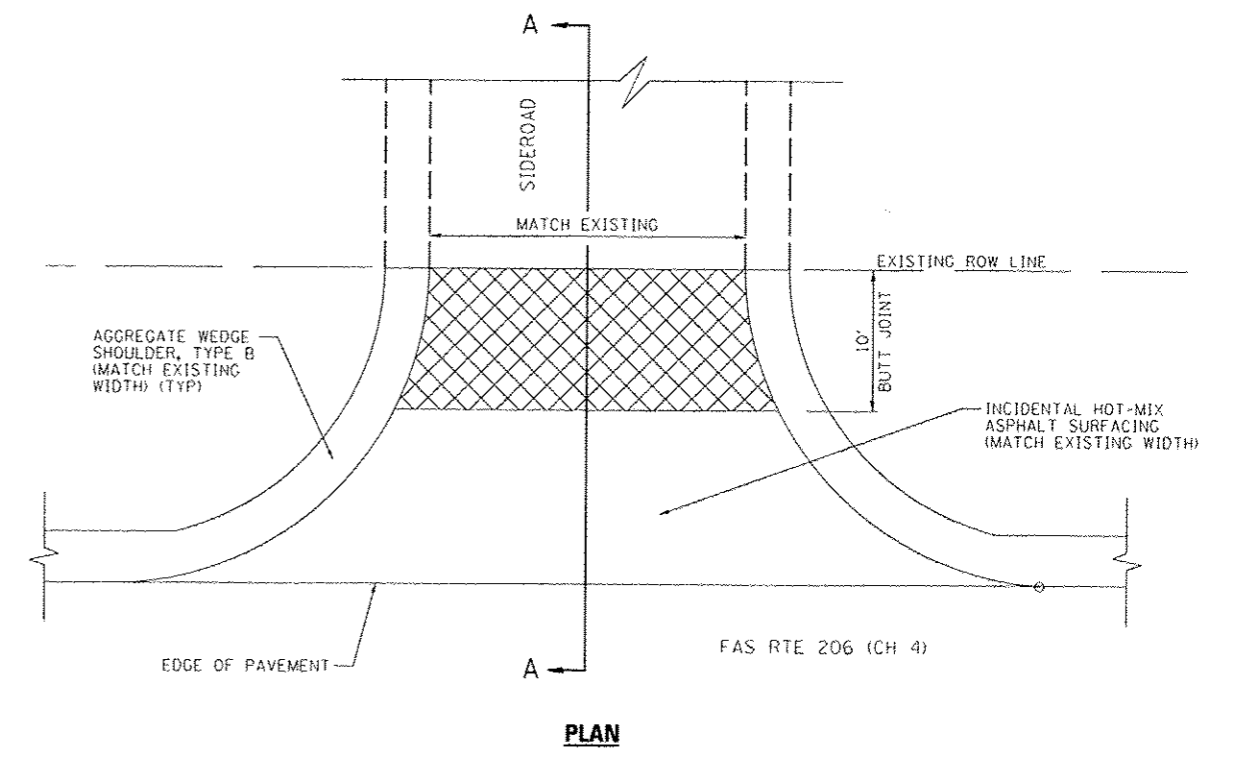
ENTRANCES ADJACENT TO CURB & GUTTER



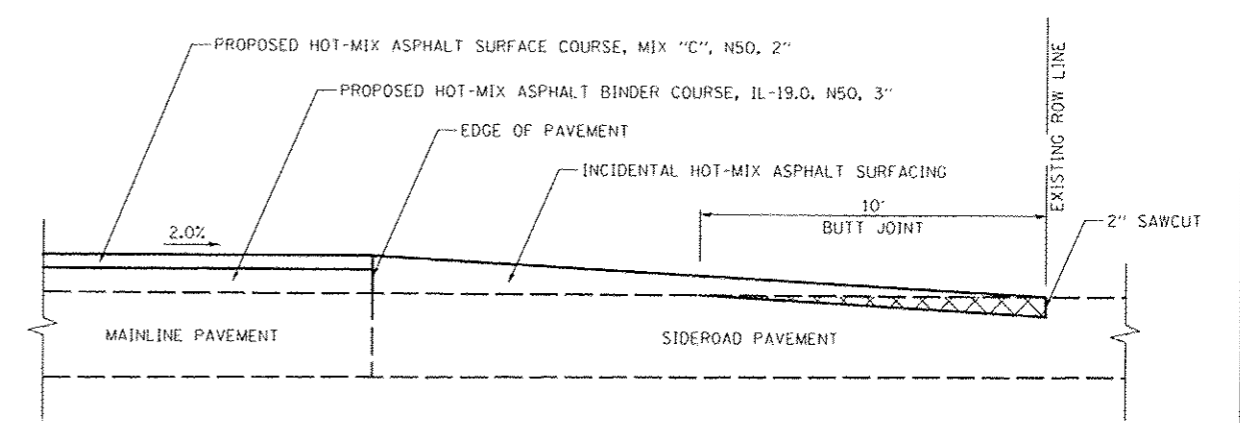
ENTRANCES ADJACENT TO EDGE OF PAVEMENT

ENTRANCE DETAILS

ENTRANCE TABLE				
STATION	SIDE	TYPE	MATERIAL	WIDTH (W)
126+56	RT	FE	AGG	18
127+46	LT	FE	AGG	12
140+97	RT	PE	HMA	15
141+01	LT	FE	AGG	24
143+00	RT	FE	AGG	12
145+00	RT	FE	AGG	12
153+70	LT	PE	HMA	12
155+25	RT	FE	AGG	14
160+79	RT	FE	AGG	14
160+83	LT	PE	HMA	12
164+58	RT	PE	HMA	15
166+27	RT	FE	AGG	12
170+32	LT	PE	HMA	14
171+43	RT	FE	AGG	15
172+76	LT	PE	HMA	14
173+66	RT	FE	AGG	15
175+66	LT	PE	HMA	20
177+00	LT	PE	HMA	12
178+39	LT	PE	AGG	12
183+23	RT	PE	HMA	12
190+27	LT	FE	AGG	12
190+79	RT	FE	AGG	12
191+99	LT	FE	AGG	12
194+24	LT	PE	HMA	35
198+86	LT	PE	HMA	12
198+93	RT	PE	HMA	12
201+81	LT	PE	HMA	32
202+06	LT	PE	HMA	12
202+51	LT	PE	HMA	12
203+15	LT	PE	HMA	12
205+19	RT	PE	HMA	12
205+98	RT	PE	HMA	34
206+98	RT	PE	HMA	15
212+41	RT	PE	HMA	15
212+44	LT	FE	AGG	16
218+25	LT	FE	AGG	12
223+94	LT	FE	AGG	12
224+92	RT	PE	HMA	14
226+50	RT	FE	AGG	12
230+18	RT	PE	HMA	12
232+40	LT	PE	HMA	12
233+71	RT	FE	AGG	12
256+81	LT	FE	AGG	12
256+92	RT	FE	AGG	12



PLAN



SECTION A-A

SIDEROAD DETAILS

FILE NAME =	USER NAME = Shughes	DESIGNED - RMB	REVISED -
W:\3484 - Mercer Cnty - CH 4 - PH I\NCAD	NCAD00 Sheets\0409615-hdt-details.dgn	DRAWN - SRH	REVISED -
	PLOT SCALE = 2.000' / 1"	CHECKED - WSL	REVISED -
	PLOT DATE = 2/19/2014	DATE - 1/13/2014	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

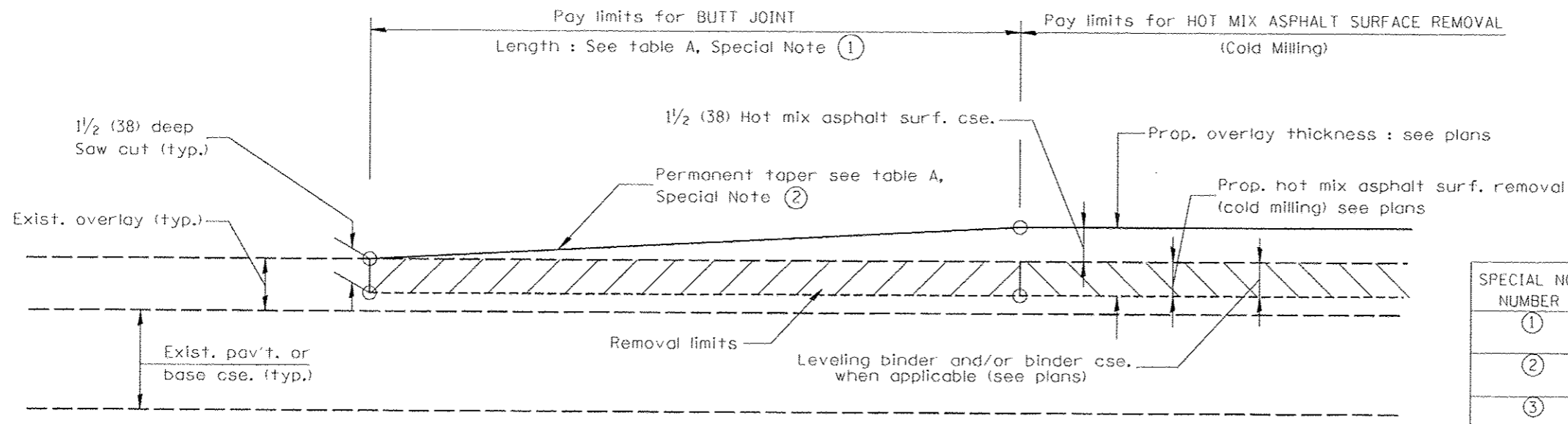
**FAS RTE 206 (CH 4)
DETAILS**

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
206	05-00094-04-RS	MERCER	14	9
CONTRACT NO. 89615				

SCALE: N/A SHEET NO. 1 OF 1 SHEETS STA. N/A TO STA. N/A

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

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).



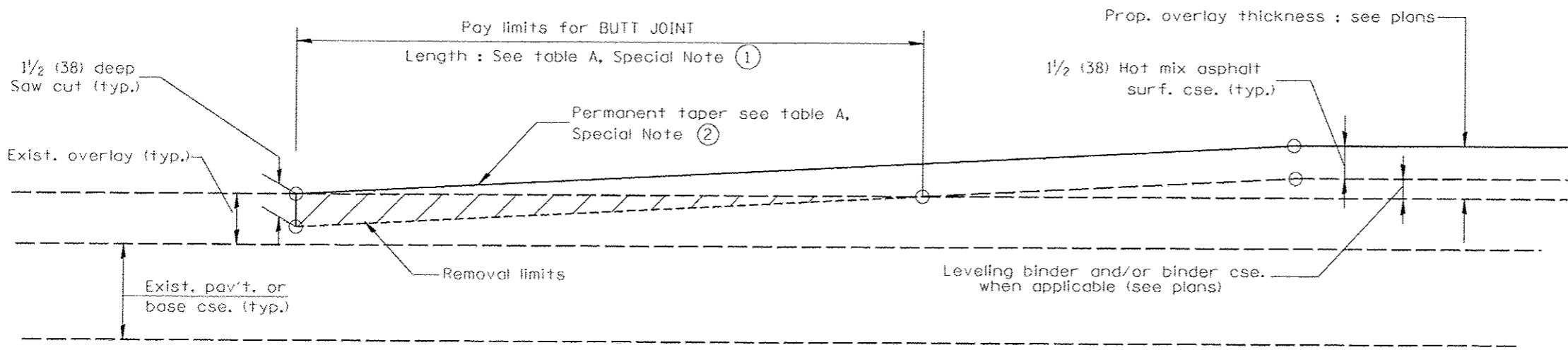
CASE 1 : WITH HOT MIX ASPHALT SURFACE REMOVAL (COLD MILLING)

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)

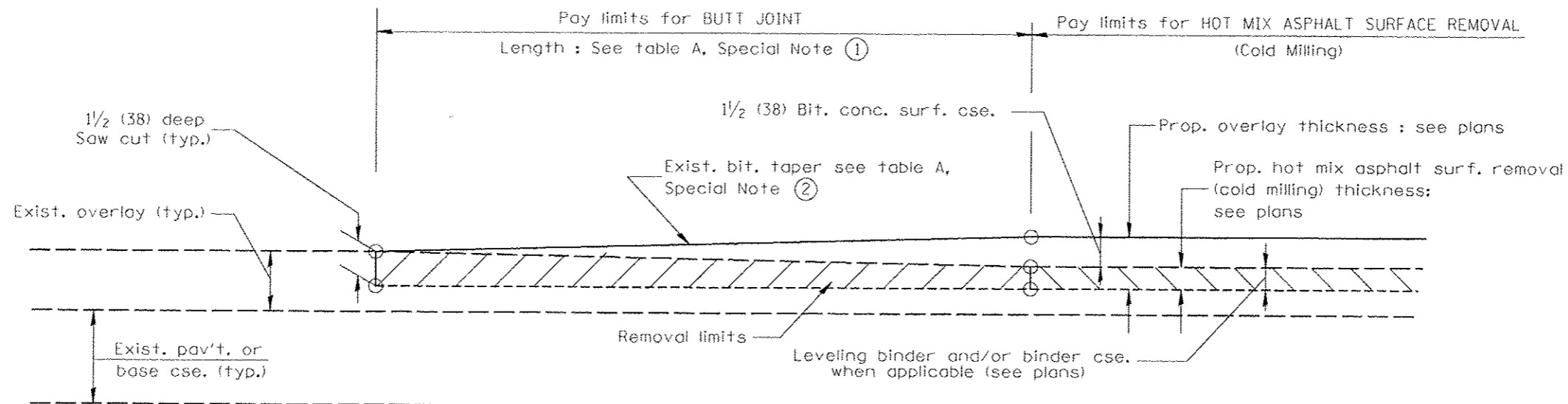
GENERAL NOTES

- 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.

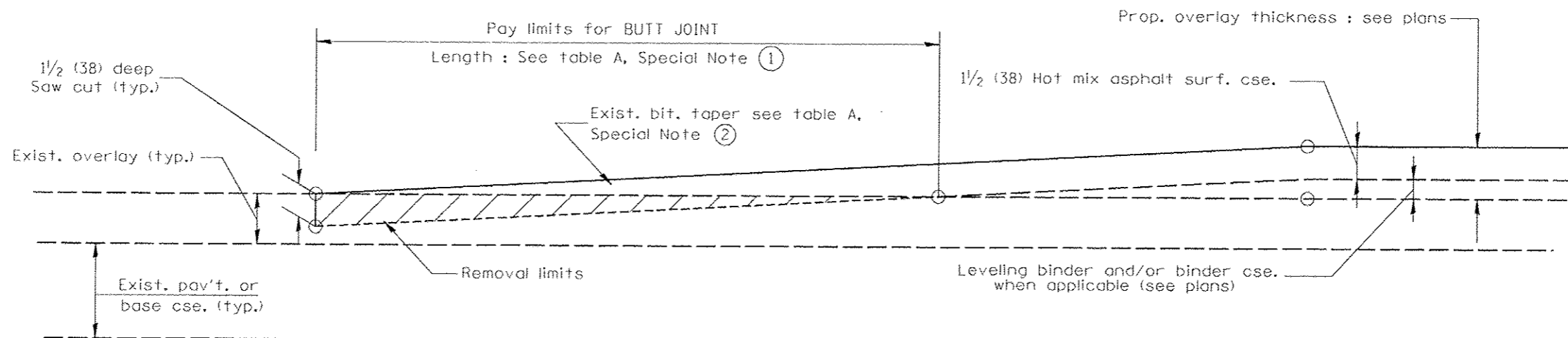


CASE 2 : NO HOT MIX ASPHALT SURFACE REMOVAL (COLD MILLING)

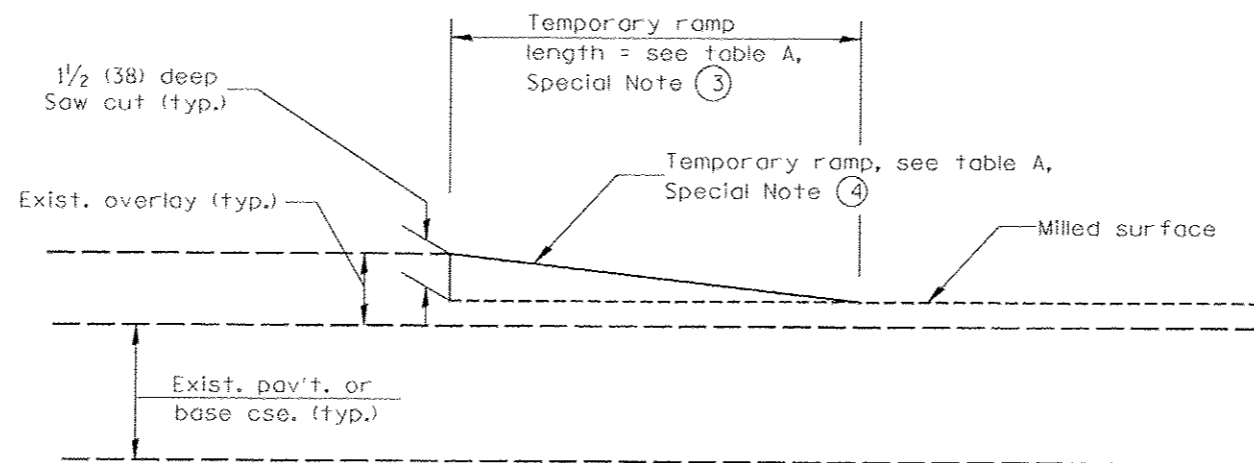
All dimensions are in inches (millimeters) unless otherwise noted.



**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

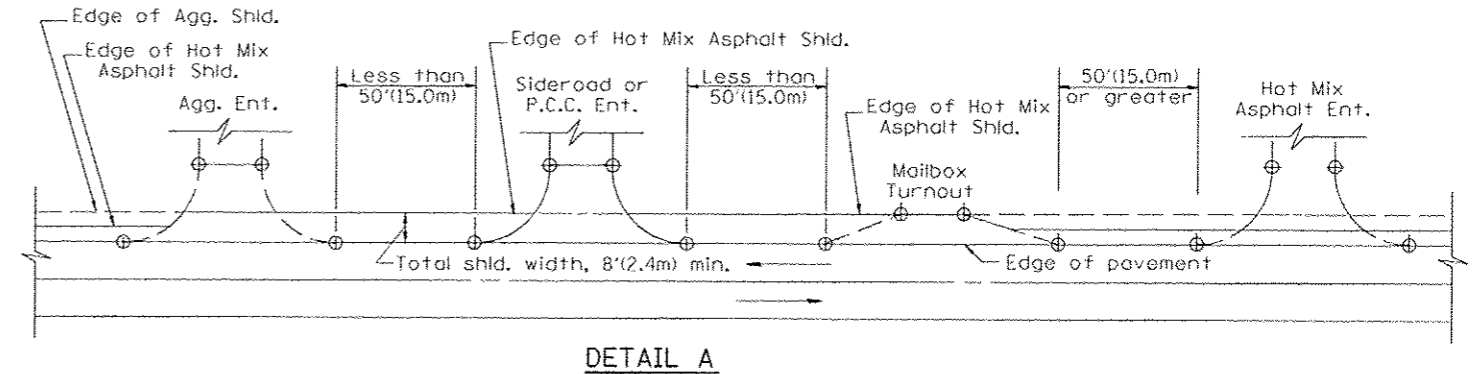
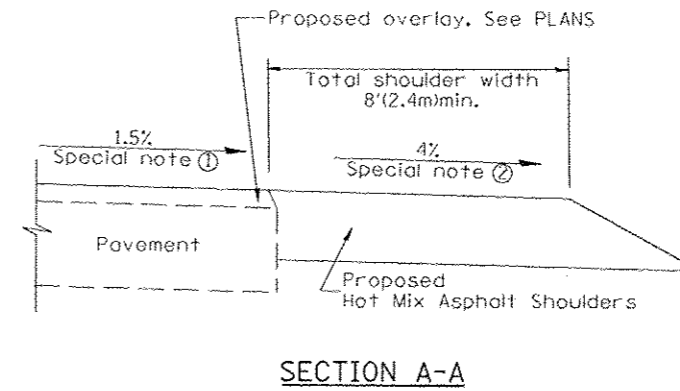
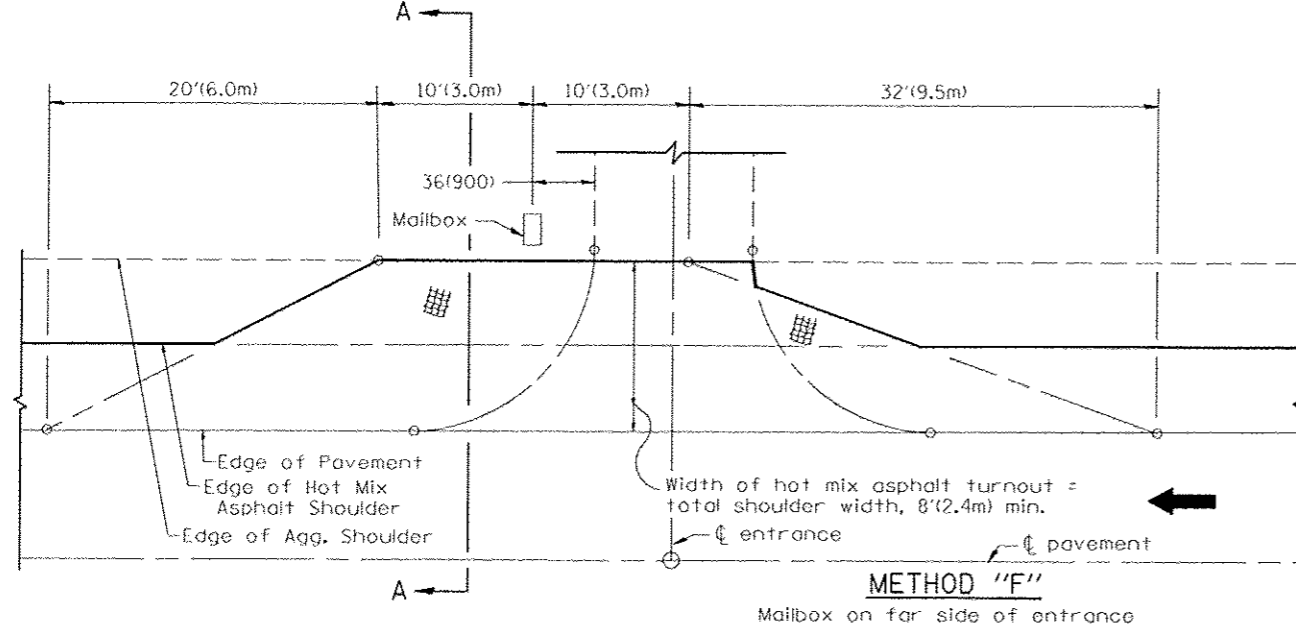
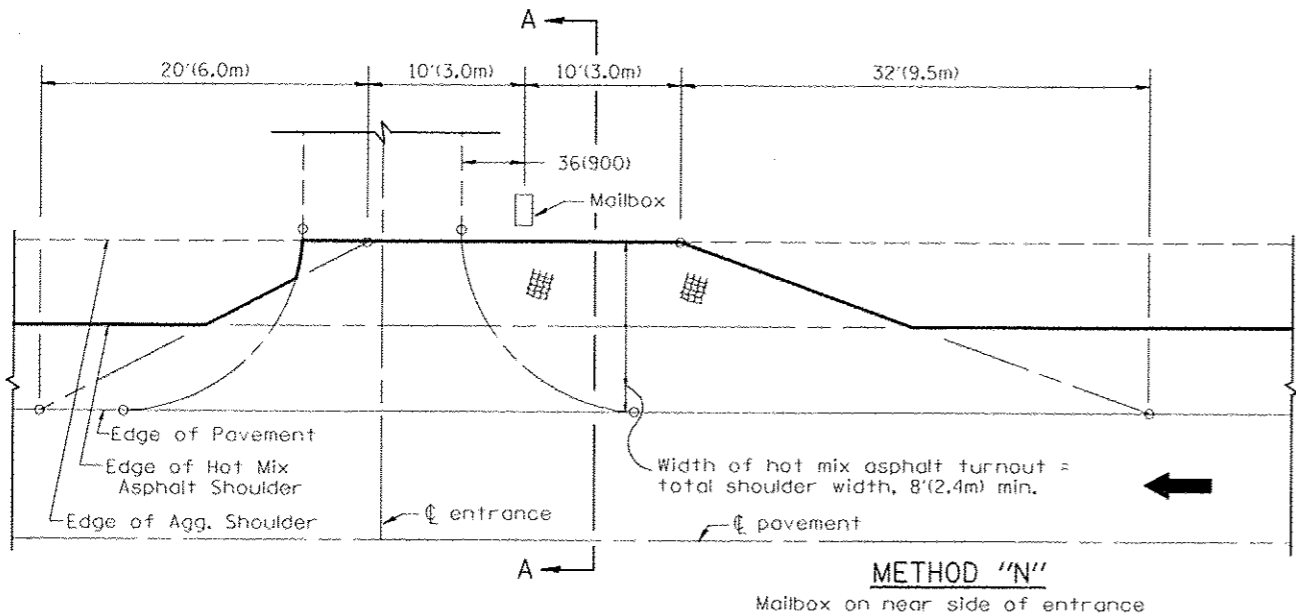
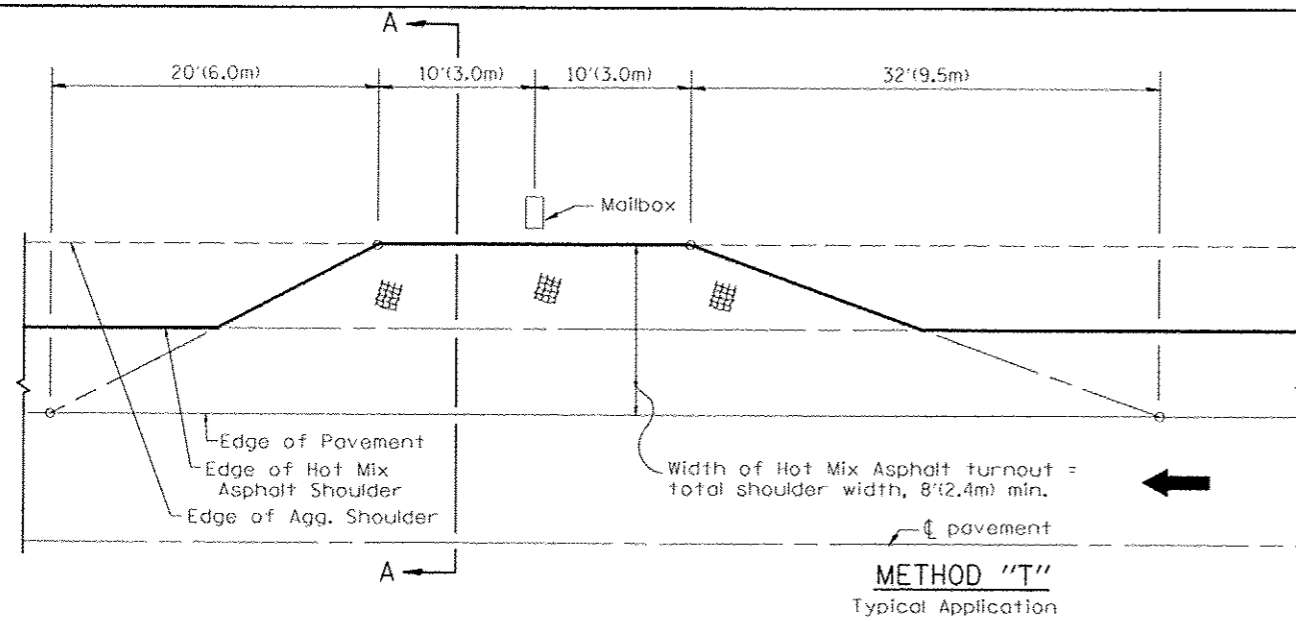
BUTT JOINTS

NOT TO SCALE

SHT. 2 OF 3
CADD STD. 406101-D4

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
206	05-00094-04-RS	MERCER	14	11
CONTRACT NO. 89615				

DESIGNER NOTES:
 1. THIS DRAWING REPLACES STATE STANDARD 406201.
 2. DESIGNER SHOULD CONSULT CHAPTER 49 OF THE BDE MANUAL.



SHOULDER TREATMENT FOR CLOSELY SPACED SIDEROADS,
ENTRANCES, AND/OR MAILBOX TURNOUTS

GENERAL NOTES

1. Mailbox turnouts shall slope away from the pavement edge at a rate equal to the shoulder slope. See SECTION A-A.
2. The total shoulder width, 8'(2.4m) minimum, shall be paved between sideroads entrances and/or mailbox turnouts at locations where the distance between radius or taper control points is less than 50'(15.0m). See DETAIL A.
3. Mailboxes shall be mounted such that the face of the mailbox is 6(150) to 12(300) and the post a minimum of 24(600) from the edge of the turnout surfacing.

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 shoulder slope shall control the turnout slope. The standard cross-slope is 4% for tangent alignment. Through superelevated curves, the maximum pavement-shoulder breakover should not be greater than 10% for shoulders 6'(1.8m) and wider and 12% for shoulders 4'(1.2m) and less. Where 12(300) paved shoulders are provided, the breakover should be at the edge of the paved shoulder rather than at the pavement edge.

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

01-01-97	RENUM. C-90.01, NEW REVISION BOX	T.P.			
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**

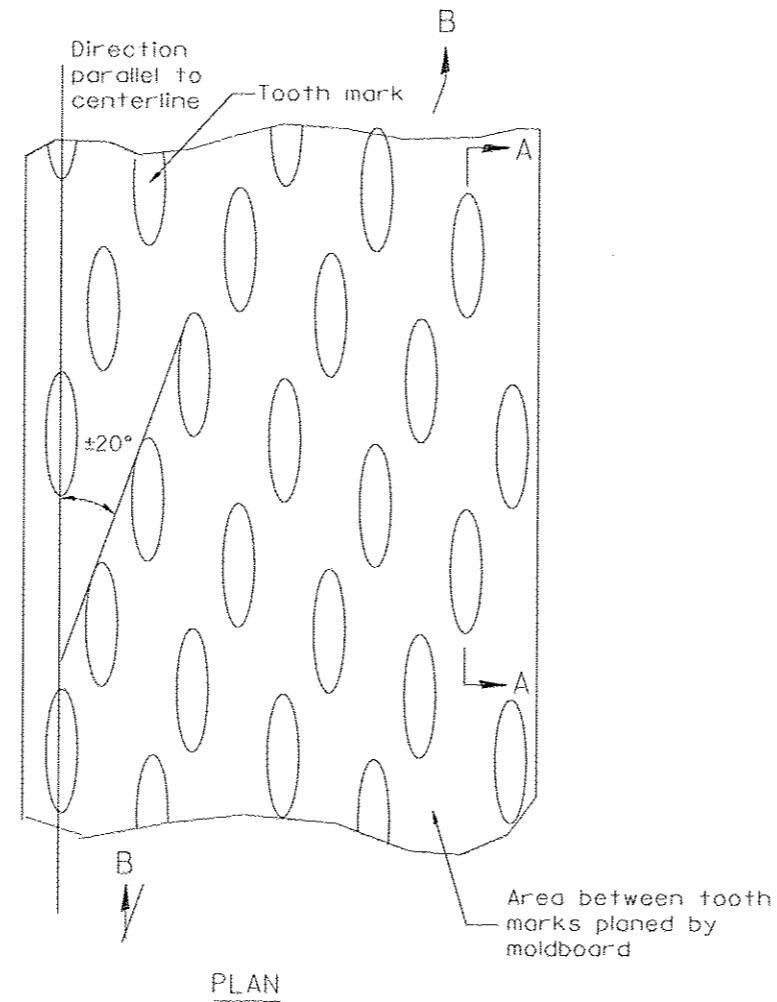
MAILBOX TURNOUTS FOR "3R" PROJECTS

NOT TO SCALE

CADD STD. 406201-D4

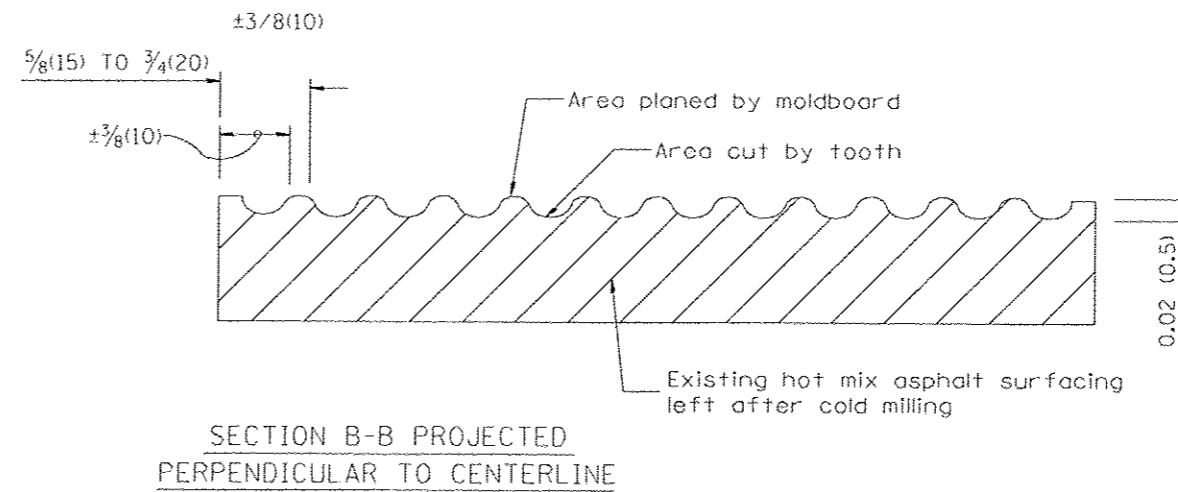
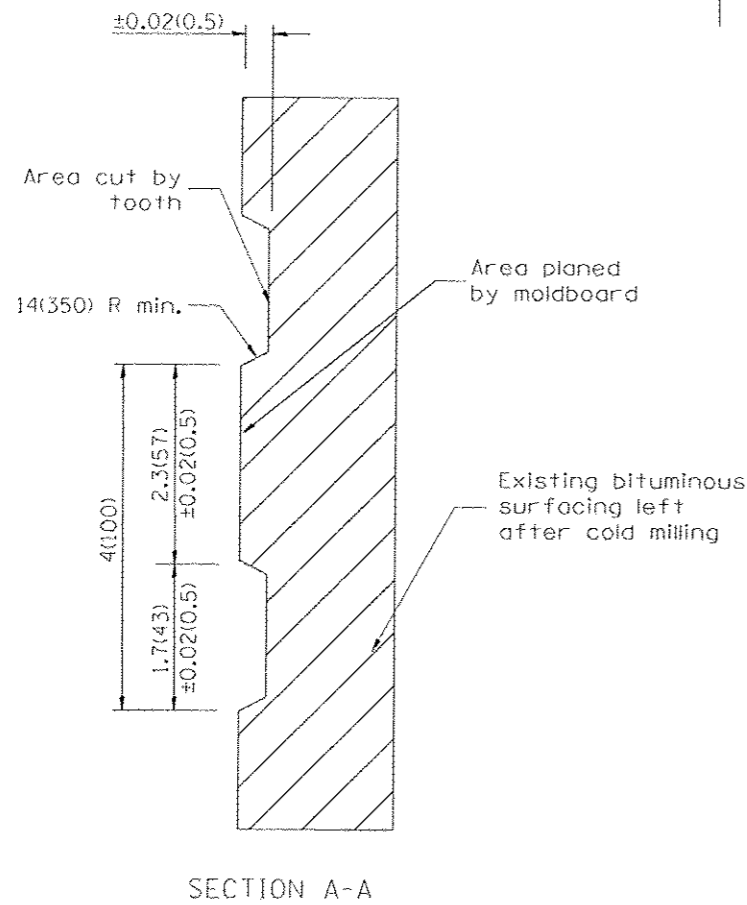
F.A.S. DATE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
206	05-00094-04-RS	MERCER	14	13
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
CONTRACT NO. 89615				

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	REFNUM, 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.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
206	05-00094-04-R5	MERCER	14	14
CONTRACT NO. 89615				
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		