

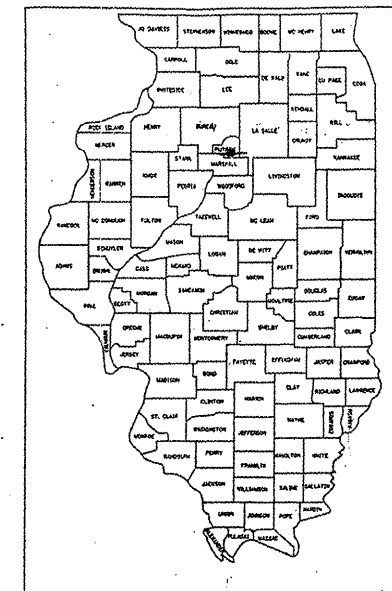
ROUTE NO.	SECTION	COUNTY	CONTRACT	SHEET NO.	TOTAL SHEETS
FAS 254	09-00024-00-RS	Putnam	89446	1	4

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

**FEDERAL AID SECONDARY 254 (C.H. 11)  
PUTNAM COUNTY  
SECTION 09-00024-00-RS**

**PROJECT RS-254(107)  
JOB #C-94-145-06  
CONTRACT 89446**

LOCATION OF SECTION INDICATED THUS: 



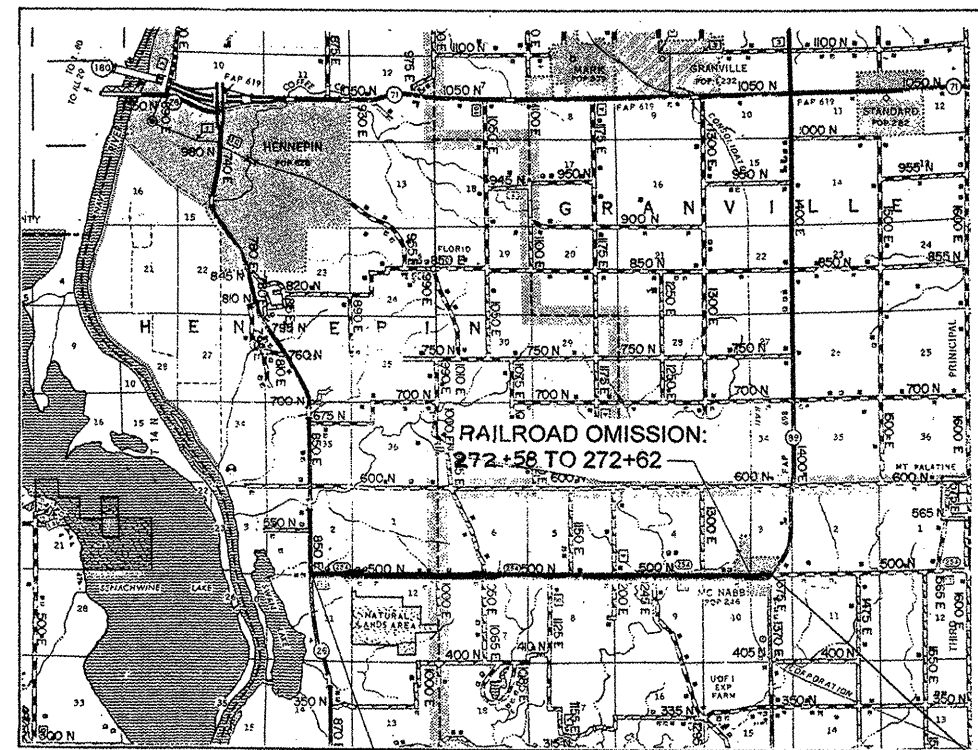
**INDEX OF SHEETS**

SHEET NO. 1	COVER SHEET AND SUMMARY OF QUANTITIES
SHEET NO. 2	TABULATION OF QUANTITIES
SHEET NO. 3	TYPICAL CROSS SECTIONS, MCNABB STREETS TABULATION OF QUANTITIES
SHEET NO. 4	DETAILS: ENTRANCES, MAIL BOX TURNOUTS, SIDE ROADS, INTERSECTIONS, BUTT JOINTS

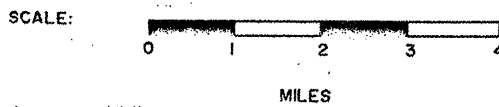
**STANDARDS:**

701306-02	LANE CLOSURE TWO LANE, TWO WAY SLOW MOVING OPERATIONS - DAY ONLY
701311-03	LANE CLOSURE TWO LANE, TWO WAY MOVING OPERATIONS - DAY ONLY
701901-01	TRAFFIC CONTROL DEVICES
780001-02	TYPICAL PAVEMENT MARKINGS

R. 2 W. R. 1 W. OF THE 3<sup>RD</sup> P.M.



PROJECT BEGINS STA. 0+11 PROJECT ENDS STA. 286+00



**SUMMARY OF QUANTITIES**  
CONSTRUCTION CODE 1000

CODE NO.	UNIT	ITEM	QUANTITY
40600100	GALLON	BITUMINOUS MATERIALS (PRIME COAT)	7995.0
40600300	TON	AGGREGATE (PRIME COAT)	160.0
40600625	TON	LEVEL BINDER (MACHINE METHOD), N50	7997.0
40603310	TON	HMA BINDER COURSE, IL 2.5 N50	4923.0
40603310	TON	HMA SURFACE COURSE, MIX 'C', N50	5784.0
40800050	TON	INCIDENTAL HMA SURFACE	332.0
44000198	SQ YD	HMA SURFACE REMOVAL, VARIABLE DEPTH	901
48101200	TON	AGGREGATE SHOULDERS, TYPE B	3114.0
67100100	LSUM	MOBILIZATION	1.0
70100460	LSUM	TRAFFIC CONTROL AND PROTECTION STANDARD 701306	1.0
70300100	FT	SHORT TERM PAVEMENT MARKING	2600.0
70300220	FT	TEMPORARY PAVEMENT MARKING LINE - 4"	82226.0
70301000	SQ FT	WORK ZONE PAVEMENT MARKING REMOVAL	867.0
* 78001100	54 FT	PAINT PAVEMENT MARKING - LETTERS AND SYMBOLS	123.0
* 78001110	FT	PAINT PAVEMENT MARKING - LINE 4"	82226.0
* 78001180	FT	PAINT PAVEMENT MARKING - LINE 24"	77.0
Z0048665	LSUM	RAILROAD PROTECTIVE LIABILITY INSURANCE	1.0
40600982	SQ YD	HMA SURFACE REMOVAL, BUTT JOINT	1444.0

\* SPECIALTY ITEMS

J.U.L.I.E. 1-800-892-0123

PLANS PREPARED BY:  
**GEORGE P. MEISTER**  
COUNTY ENGINEER  
REGISTERED PROFESSIONAL ENGINEER  
*George P. Meister*



Reg. No. 62-35763  
Exp. Date 11-30-11

GROSS LENGTH OF SECTION 28589.00 FEET = 5.414 MILES  
NET LENGTH OF SECTION 28585.00 FEET = 5.413 MILES

**CAT #: 033336-00**

CLASS III ROAD 20 YEAR DESIGN  
FUNCTIONAL CLASSIFICATION = MAJOR COLLECTOR

		ADT
CURRENT ADT	(2009)	850
(10 year) DESIGN ADT	(2019)	940
SDT	(2029)	1040
	P.C. 88%	827
	S.U. 5%	47
	M.U. 7%	66

	MAINLINE	BRIDGE
	0+11 TO 272+58	203+25 TO 212+00
T.F. =	0.306	0.306
I.B.R. =	3.0	3.0
REQUIRED DT =	3.47	3.47
EXISTING	1.94	2.70
PROPOSED DT =	3.56	3.50

PROPOSED THICKNESS =  
2" LEVEL  
1 1/4" SURF  
1 1/4" BINDER

0" LEVEL  
2" SURF  
0" BINDER

APPROVED November 17 2009  
*George P. Meister*  
PUTNAM COUNTY ENGINEER

PASSED 2/13 2010  
*[Signature]*  
DISTRICT ENGINEER - LOCAL ROADS & STREETS

Releasing For Bid Based on Limited Review  
FEB 24 2010  
*[Signature]*  
DEPUTY DIRECTOR FOR HIGHWAYS  
REGION THREE ENGINEER  
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TABULATION OF QUANTITIES

ROUTE NO.	SECTION	COUNTY	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
FAS 254	09-00024-00-RS	Putnam	89446	2	4

40600100 BITUMINOUS MATERIALS (PRIME COAT)

STATION	WIDTH	SQ. YD	QUANTITY REQUIRED
MAINLINE 0+11 TO 272+58	24'	72,659	7,265.9 GAL
TOWN 272+62 TO 286+00	22'-55'	5,133	513.3 GAL
SIDE ROADS (SEE PAGE 4)			153.0 GAL
MCNABB STREETS (SEE PAGE 3)			49.1 GAL
TERMINAL INTERSECTIONS (SEE PAGE 4)			<u>13.2 GAL</u>
			7994.5 GAL
RATE OF APPL = 0.1 GAL/SQ YD		TOTAL	7994.5 (USE 7995 GAL)

40800050 INCIDENTAL HOT-MIX ASPHALT SURFACING

LOCATION	QUANTITY REQUIRED
TERMINAL INTERSECTIONS (SEE PAGE 4)	33.5 TON
SIDE ROADS (SEE PAGE 4)	256.5 TON
MCNABB STREETS (SEE PAGE 3)	<u>41.2 TON</u>
	331.2 TON
RATE OF APPL. = 112 LB./ S.Y./IN.	
TOTAL	331.2 (USE 332 TON)

40600300 AGGREGATE PRIME COAT

STATION	SQ YD	QUANTITY REQUIRED
0+11 TO 272+58	72,659	145.3 TON
272+62 TO 286+00	5,133	10.3 TON
SIDE ROADS	1530	3.0 TON
MCNABB STREETS	491	1.0 TON
TERMINAL INTERSECTON	132	<u>0.3 TON</u>
		159.9 TON
RATE OF APPL = 4 LB/SQ YD		TOTAL 159.9 (USE 160 TON)

40600625 LEVELING BINDER (MACHINE METHOD) N50

STATION	THICKNESS	SQ. YD	QUANTITY REQUIRED
0+11 TO 203+25	2"	54,170.70	6067.1 TON
212+00 TO 272+58	2"	16,154.70	1,809.3 TON
MAIL BOX TURNOUTS (SEE PAGE 4)			23.8 TON
ENTRANCES (SEE PAGE 4)			<u>96.5 TON</u>
			7996.7 TON
RATE OF APPL = 112 LBS/SQ YD-IN.		TOTAL	7996.7 (USE 7997 TON)

44000198 HOT MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH

LOCATION	LENGTH	WIDTH	QUANTITY REQUIRED
CURB & GUTTER	1,352	6"	<u>901.3 SQ YD</u>
			901.3 SQ YD
TOTAL			901 SQ YD

HMA BINDER COURSE, IL 9.5 N, 50

STATION	THICKNESS	SQ. YD	QUANTITY REQUIRED
0+11 TO 203+25	1 1/4"	54,170.70	3791.9 TON
212+00 TO 272+58	1 1/4"	16,154.70	<u>1130.8 TON</u>
			4922.7 TON
RATE OF APPL = 112 LBS/SQ YD-IN.		TOTAL	4922.7 (USE 4923 TON)

40600982 HOT MIX ASPHALT SURFACE REMOVAL, BUTT JOINT

LOCATION	LENGTH	WIDTH	QUANTITY REQUIRED
RR CROSSING 272+58	50'	21'	130.9 SQ YD
RR CROSSING 272+62	43'	27'	116.6 SQ YD
BRIDGE APPROACH 208+60	25'	22'	61.1 SQ YD
BRIDGE APPROACH 209+40	25'	22'	61.1 SQ YD
TERMINAL INTERSECTION (SEE PAGE 4)			677.8 SQ YD
SIDE ROADS (SEE PAGE 4)			199.8 SQ YD
MCNABB STREETS (SEE PAGE 3)			<u>196.6 SQ YD</u>
			1443.9 SQ YD
TOTAL			1443.9 (USE 1444 SQ YD)

40603310 HMA SURFACE COURSE MIX "C" N50

STATION	THICKNESS	SQ. YD	QUANTITY REQUIRED
0+11 TO 203+25	1 1/4"	54,171	3791.9 TON
203+25 TO 212+00	2"	2,333	261.3 TON
212+00 TO 272+58	1 1/4"	16,155	1130.8 TON
272+62 TO 286+00	1 1/2"	5,133	431.2 TON
MAIL BOX TURNOUTS (SEE PAGE 4)			29.4 TON
ENTRANCES (SEE PAGE 4)			<u>138.6 TON</u>
			5783.2 TON
RATE OF APPL = 112 LBS/SQ YD-IN.		TOTAL	5783.2 (USE 5784 TON)

78001110 PAINT PAVEMENT MARKING LINE - 4"

LOCATION	QUANTITY REQUIRED
Sta. 0+11 to 272+60	EDGE LINE 54298 FT
Sta. 280+54 to 286+00	EDGE LINE 1092 FT
Sta. 0+11 to 270+60	CENTERLINE 6762 FT
Sta. 270+60 to 286+00	DBL NO PASSING 3080 FT
WEST BOUND LANE	NO PASSING 7953 FT
EAST BOUND LANE	NO PASSING <u>9041 FT</u>
	82226 FT
TOTAL 82226 FT (USE 82226)	

48101200 AGGREGATE SHOULDER, TYPE B

STATION	THICKNESS	SQ. YD	QUANTITY REQUIRED
0+11 TO 203+25	4 1/2"	9,028	2347.4 TON
203+25 TO 212+00	2"	389	44.9 TON
212+00 TO 272+58	4 1/2"	2,692	700.0 TON
280+54 TO 286+00	1 1/2"	243	<u>21.0 TON</u>
			3113.3 TON
RATE OF APPL = 2.08 TON/CU YD		TOTAL	3113.3 (USE 3114 TON)

70300220 TEMPORARY PAVEMENT MARKING LINE - 4"

SEE PAINT PAVEMENT MARKING LINE - 4"	TOTAL	82226 FT.
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**TABULATION OF QUANTITIES**

**70300100 SHORT TERM PAVEMENT MARKING**

LOCATION	QUANTITY REQUIRED
Sta. 0+11 to 286+00	<u>2599 FT</u>
RATE 4' IN 44 FT	TOTAL 2599 FT (USE 2600)

**70301000 WORK ZONE PAVEMENT MARKING REMOVAL**

LOCATION	QUANTITY REQUIRED
Sta. 0+11 to 286+00	<u>866.7 SQ FT</u>
2600X4"/12	TOTAL 866.7 SQ FT (USE 867)

**78001100 PAINT PAVEMENT MARKING - LETTERS AND SYMBOLS**

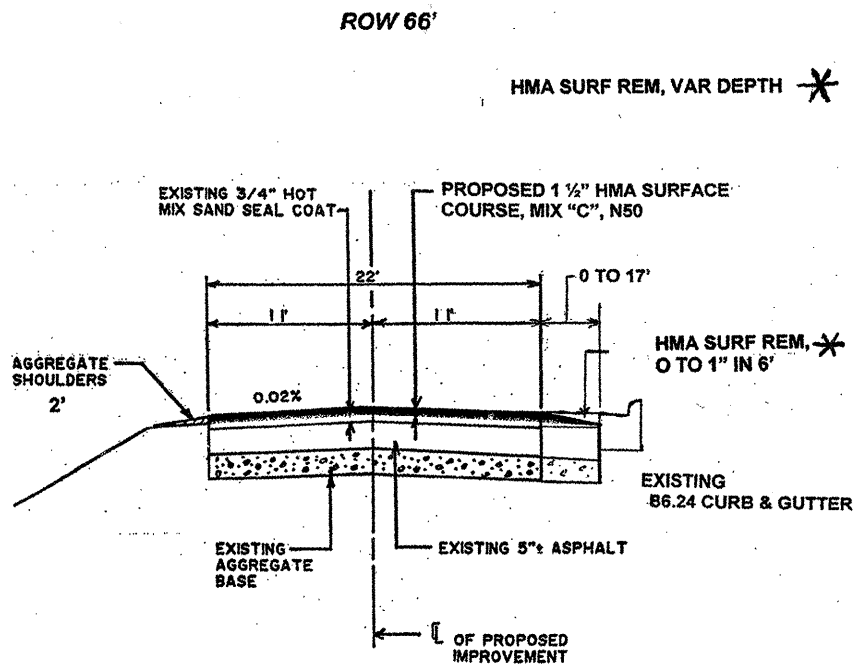
LOCATION	QUANTITY REQUIRED
RT Sta 269+60	RR Crossing 61.2 SQ FT
LT Sta 271+35	RR Crossing <u>61.2 SQ FT</u>
	122.40 SQ FT
RATE SEE ARTICLE 780.12	TOTAL 122.40 SQ FT (USE 123)

**78001180 PAINT PAVEMENT MARKING LINE - 24"**

LOCATION	QUANTITY REQUIRED
RT Sta 269+60 (RAILROAD)	3 @ 11' 33.0 FT
LT Sta 271+35 (RAILROAD)	3 @ 11' 33.0 FT
LT Sta 0+50 (STOP)	11' <u>11.0 FT</u>
	77.0 FT
RATE SEE TRAFFIC STANDARD 780001	TOTAL 77.0 FT (USE 77.0)

**PROPOSED TYPICAL CROSS SECTION**

STA. 272+60 TO 286+00

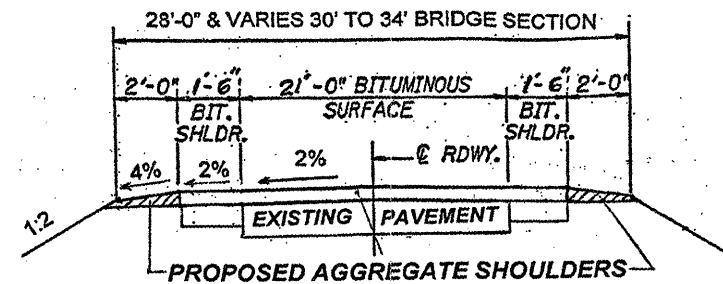


**PROPOSED TYPICAL CROSS SECTION**

STA. 272+60 TO 286+00

ROUTE NO.	SECTION	COUNTY	CONTRACT	SHEET NO.	TOTAL SHEETS
FAS 254	09-00024-00-RS	Putnam	89446	3	4

ROW 66' + VAR TO 80'



STA. 203+25 TO 212+00  
BRIDGE SECTION  
2" SURFACE  
2" LEVEL BINDER

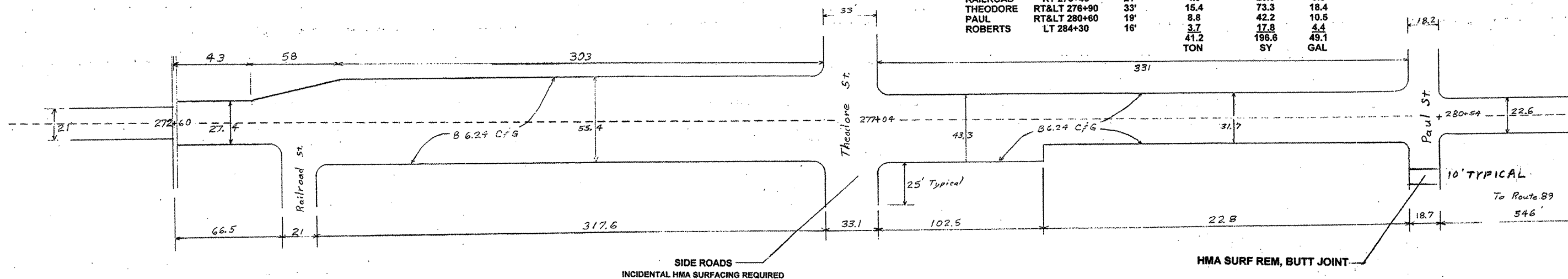
STA. 0+11 TO 272+60  
PROPOSED PAVEMENT  
1 1/2" SURFACE  
1 1/2" BINDER  
2" LEVEL BINDER

NOTE: WILL PAVE 24' WIDTH STRIPE FOR 10.5' LANES

**PROPOSED TYPICAL CROSS SECTION**

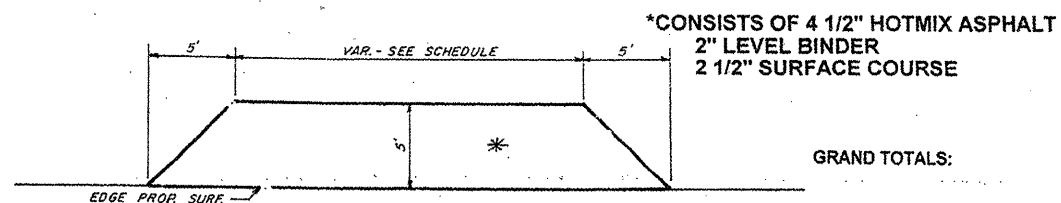
STA. 0+11 TO 272+60

MCNABB STREETS	WIDTH	25' MIX REQUIRED TON	10' SURF REM SY	PRIME GAL
PARK LT 264+40	18'	4.2	20.0	5.0
WALTER LT 270+00	18'	4.2	20.0	5.0
RAILROAD RT 273+40	21'	4.9	23.3	5.8
THEODORE RT&LT 276+90	33'	15.4	73.3	18.4
PAUL RT&LT 280+60	19'	8.8	42.2	10.5
ROBERTS LT 284+30	16'	3.7	17.8	4.4
		41.2 TON	196.6 SY	49.1 GAL



**ENTRANCE DETAIL**

SCALE: 1" = 5'



\*CONSISTS OF 4 1/2" HOTMIX ASPHALT  
2" LEVEL BINDER  
2 1/2" SURFACE COURSE

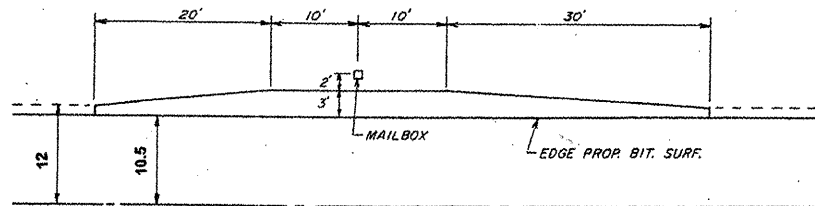
GRAND TOTALS:

**SCHEDULE OF ENTRANCES**

SCHEDULE OF ENTRANCES				LEVELING BINDER SURFACE COURSE					
STATION	WIDTH	SQ YDS	BINDER TONS	SURFACE TONS	STATION	WIDTH	SQ YDS	BINDER TONS	SURFACE TONS
LT 283+00	22'	15.0	0	2.1	LT 117+00	16'	11.7	1.3	1.6
LT 282+40	22'	15.0	0	2.1	LT 102+70	16'	11.7	1.3	1.6
LT 263+30	22'	15.0	1.7	2.1	LT 86+80	16'	11.7	1.3	1.6
LT 252+50	16'	11.7	1.3	1.6	LT 86+40	22'	15.0	1.7	2.1
LT 242+80	16'	11.7	1.3	1.6	LT 83+20	22'	15.0	1.7	2.1
LT 235+80	16'	11.7	1.3	1.6	LT 78+30	22'	15.0	1.7	2.1
LT 230+50	22'	15.0	1.7	2.1	LT 73+50	22'	15.0	1.7	2.1
LT 224+50	22'	15.0	1.7	2.1	LT 70+30	22'	15.0	1.7	2.1
LT 220+00	22'	15.0	1.7	2.1	LT 65+50	22'	15.0	1.7	2.1
LT 217+20	16'	11.7	1.3	1.6	LT 47+00	22'	15.0	1.7	2.1
LT 204+42	16'	11.7	0	1.6	LT 38+70	22'	15.0	1.7	2.1
LT 182+20	16'	11.7	1.3	1.6	LT 36+20	36'	22.8	2.6	3.2
LT 175+30	16'	11.7	1.3	1.6	LT 28+25	22'	15.0	1.7	2.1
LT 164+80	16'	11.7	1.3	1.6	LT 13+10	22'	15.0	1.7	2.1
LT 163+08	22'	15.0	1.7	2.1	LT 12+25	22'	15.0	1.7	2.1
LT 148+30	16'	11.7	1.3	1.6	LT 1+25	16'	11.7	1.3	1.6
LT 136+40	16'	11.7	1.3	1.6	LT 285+05	36'	22.8	0	3.2
			20.02 TON	30.07 TON				26.5 TON	35.9 TON
RT 13+25	16'	11.7	1.3	1.6	RT 175+50	16'	11.7	1.3	1.6
RT 24+40	22'	15.0	1.7	2.1	RT 200+81	16'	11.7	1.3	1.6
RT 32+18	22'	15.0	1.7	2.1	RT 201+35	22'	15.0	1.7	2.1
RT 35+25	22'	15.0	1.7	2.1	RT 203+70	22'	15.0	0	2.1
RT 36+40	22'	15.0	1.7	2.1	RT 230+00	16'	11.7	1.3	1.6
RT 39+50	22'	15.0	1.7	2.1	RT 231+80	16'	11.7	1.3	1.6
RT 42+70	22'	15.0	1.7	2.1	RT 242+70	16'	11.7	1.3	1.6
RT 50+70	22'	15.0	1.7	2.1	RT 256+90	16'	11.7	1.3	1.6
RT 69+60	16'	11.7	1.3	1.6	RT 263+15	22'	15.0	1.7	2.1
RT 78+30	22'	15.0	1.7	2.1	RT 264+50	22'	15.0	1.7	2.1
RT 86+60	16'	11.7	1.3	1.6	RT 268+15	36'	22.8	2.6	3.2
RT 102+90	22'	15.0	1.7	2.1	RT 268+55	36'	22.8	2.6	3.2
RT 109+00	16'	11.7	1.3	1.6	RT 270+60	36'	22.8	2.6	3.2
RT 121+00	16'	11.7	1.3	1.6	RT 271+00	36'	22.8	2.6	3.2
RT 181+90	16'	11.7	1.3	1.6	RT 272+00	22'	15.0	0	2.1
RT 183+00	22'	15.0	1.7	2.1	RT 284+50	36'	22.8	0	3.2
RT 164+00	22'	15.0	1.7	2.1	RT 285+45	36'	22.8	0	3.2
			26.5 TON	32.7 TON				23.3 TON	39.3 TON

**MAILBOX TURNOUT DETAIL**

SCALE: 1" = 10'



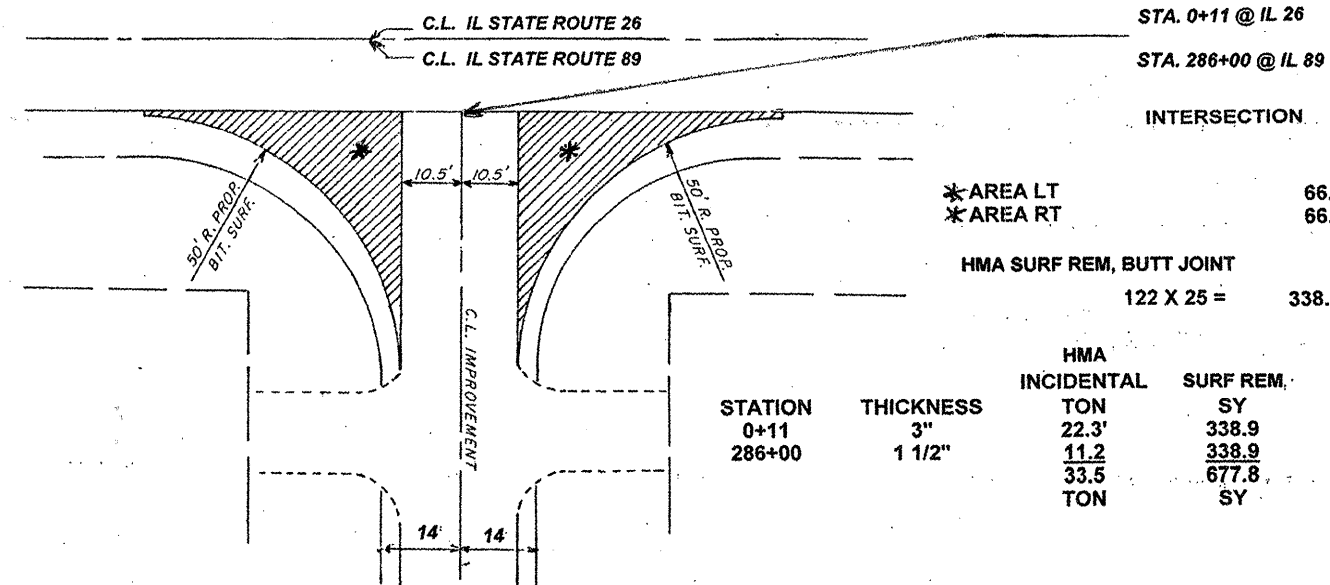
\*CONSISTS OF 4 1/2" HOTMIX ASPHALT  
2" LEVEL BINDER  
2 1/2" SURFACE COURSE

**MAILBOX TURNOUTS**

STATION	SQ YDS	BINDER TONS	SURFACE TONS	STATION	SQ YDS	BINDER TONS	SURFACE TONS
LT 12+80	15.0	1.7	2.1	LT 70+50	15.0	1.7	2.1
LT 23+75	15.0	1.7	2.1	LT 73+15	15.0	1.7	2.1
LT 34+70	15.0	1.7	2.1	LT 78+10	15.0	1.7	2.1
LT 35+84	15.0	1.7	2.1	LT 82+90	15.0	1.7	2.1
LT 36+20	15.0	1.7	2.1	LT 102+58	15.0	1.7	2.1
LT 39+10	15.0	1.7	2.1	LT 201+05	15.0	1.7	2.1
LT 42+25	15.0	1.7	2.1	LT 202+50	15.0	1.7	2.1
						23.8 TON	29.4 TON

ROUTE NO.	SECTION	COUNTY	CONTRACT	SHEET NO.	TOTAL SHEETS
FAS 254	09-00024-00-RS	Putnam	89446	4	4

**INTERSECTION DETAIL**



\*AREA LT 66.5 SQ YD  
\*AREA RT 66.5 SQ YD

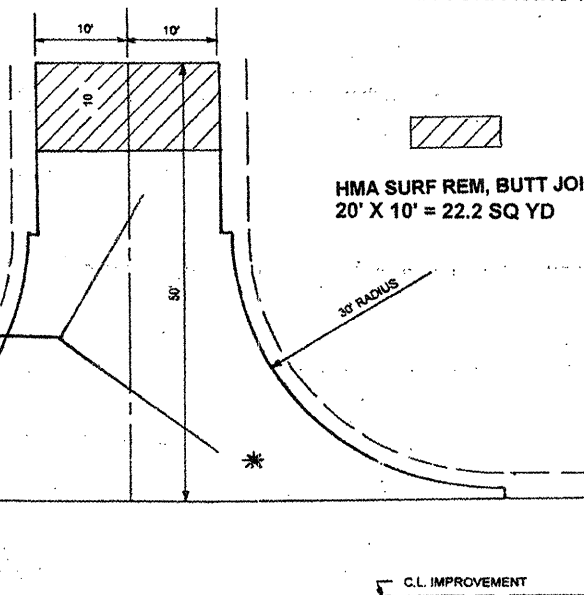
HMA SURF REM, BUTT JOINT  
122 X 25 = 338.9 SQ YD

STATION	THICKNESS	HMA INCIDENTAL TON	SURF REM. SY	PRIME GAL
0+11	3"	22.3	338.9	6.6
286+00	1 1/2"	11.2	338.9	6.6
		33.5 TON	677.8 SY	13.2 GAL

**SIDE ROADS**

INCIDENTAL HMA SURFACING REQUIRED

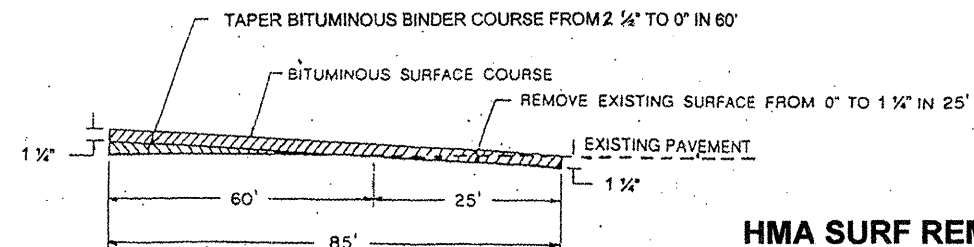
STATION	MIX REQUIRED TON	SURF REM S.Y.	PRIME GAL
RT 79+50	28.5	22.2	17.0
RT 107+00	28.5	22.2	17.0
LT 107+00	28.5	22.2	17.0
RT 145+70	28.5	22.2	17.0
LT 160+00	28.5	22.2	17.0
RT 187+50	28.5	22.2	17.0
LT 187+50	28.5	22.2	17.0
RT 212+00	28.5	22.2	17.0
LT 240+30	28.5	22.2	17.0
	256.5 TON	199.8 S.Y.	153.0 GAL



\*CONSISTS OF INCIDENTAL HMA SURFACE  
169.7 SQ YD @ 3" = 28.5 TON

PRIME  
169.75 SQ YD @ 0.1 GAL/SQ YD = 17.0 GAL

**MAINLINE: BUTT JOINT & TAPER DETAIL**



HMA SURF REM, BUTT JOINT