

INDEX OF SHEETS

- COVER SHEET, STANDARDS, & SUMMARY OF QUANTITIES
- EXISTING & PROPOSED TYPICAL CROSS SECTIONS
- MISCELLANEOUS DETAILS
- SCHEDULE OF QUANTITIES

03/11/2022 Letting Item 150

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
PLANS FOR PROPOSED
FEDERAL AID HIGHWAY
SURFACE TRANSPORTATION PROGRAM

F.A.S. ROUTE 349, F.A.U 6331
CH 10, 1600E RD (WESTON RD)
SECTION 18-00120-03-RS
PROJECT 1KLQ(976)
C-93-010-22

R 5 E, 3rd PM

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
349	18-00120-03-RS	LIVINGSTON	4	1
PROJECT NO. 1KLQ(976)		CONTRACT NO. 87775		

HIGHWAY STANDARDS

- 701301-04 LANE CLOSURE 2L, 2W SHORT TIME OPERATIONS
- 701305-04 LANE CLOSURE 2L, 2W SLOW MOVING OPERATIONS DAY ONLY ≥ 45MPH
- 701311-03 LANE CLOSURE 2L, 2W MOVING OPERATIONS DAY ONLY
- 701901-08 TRAFFIC CONTROL DEVICES
- 780001-05 TYPICAL PAVEMENT MARKINGS

SUMMARY OF QUANTITIES		CONST. CODE 0005			
ITEM NO.	ITEM	UNIT	PARTICIPATING	NON-PARTICIPATING	TOTAL QUANTITIES
40900275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	2,066		2,066
40900290	BITUMINOUS MATERIALS (TACK COAT)	POUND	66,250	642	67,092
40900370	LONGITUDINAL JOINT SEALANT	FOOT	39,309	500	39,809
40902955	HOT-MIX ASPHALT BINDER COURSE, IL-9.5FG, N50	TON	7,744		7,744
40904000	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5FG, MIX "C", N50	TON	8,278	157	8,435
40900050	INCIDENTAL HOT-MIX ASPHALT SURFACING	TON	431		431
* 44000153	HOT-MIX ASPHALT SURFACE REMOVAL, 1"	SQ YD	59,137	1,973	60,810
* 44000155	HOT-MIX ASPHALT SURFACE REMOVAL, 1 1/2"	SQ YD	37,845		37,845
48102100	AGGREGATE WEDGE SHOULDER, TYPE B	TON	3,332		3,332
67100100	MOBILIZATION	L SUM	1		1
70300100	SHORT TERM PAVEMENT MARKING	FOOT	19,645		19,645
* 70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	1,313		1,313
Δ 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	12,539		12,539
* X4401196	HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH	SQ YD	2,298	198	2,496
* X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1		1
* Z0034105	MATERIAL TRANSFER DEVICE	TON	8,278		8,278

- * SEE SPECIAL PROVISIONS
- Δ SPECIALTY ITEMS

LIVINGSTON COUNTY: THIS PORTION OF THE PROJECT CONSISTS OF HMA SURFACE REMOVAL, HMA BINDER COURSE, IL-9.5FG, HMA SURFACE COURSE, MIX "C", N50 AND AGGREGATE SHOULDERS FROM THE COUNTY LINE (900N) AND EXTENDING NORTHERLY TO 1650 IN PONTIAC.

UTILITIES

CONTACT J.U.L.I.E. 811 or 800-892-0123 BEFORE DIGGING

TRAFFIC DATA

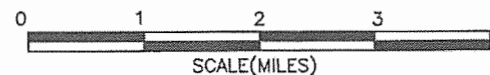
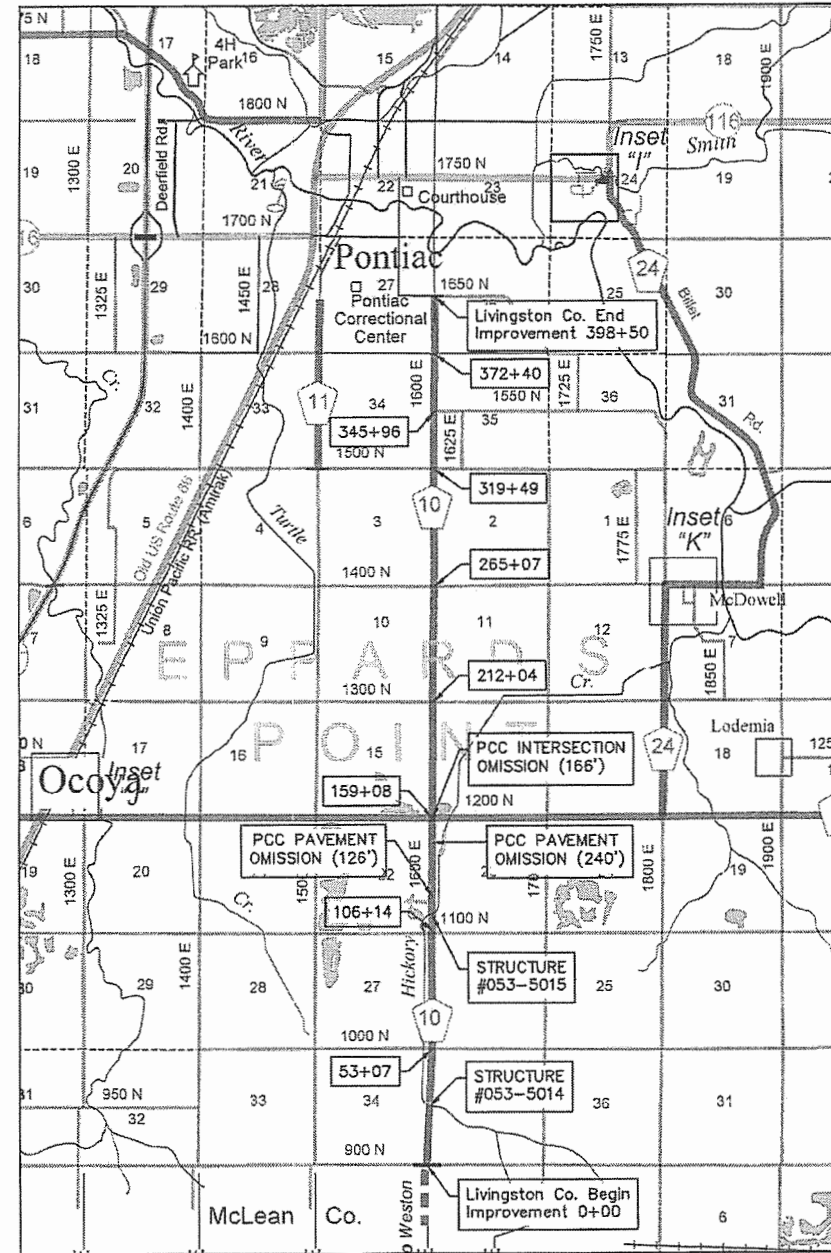
C.H. 10 - COLLECTOR
POSTED SPEED = 55 MPH-RURAL
DESIGN SPEED = 50 MPH-RURAL
DESIGN ADT= SEE SHEET 2
CLASS III ROADS, 80,000#

CONTRACT NO. 87775



THESE PLANS WERE MADE BY ME OR BY A MEMBER OF MY STAFF WORKING UNDER MY PERSONAL SUPERVISION.

12/23/2021 DATE
TRENT RUESTMAN, P.E.
NO. 062.068070
EXPIRATION DATE 11/30/23



LIVINGSTON COUNTY GROSS LENGTH = 39,850' = 7.55 MILES
LIVINGSTON COUNTY NET LENGTH = 39,318' = 7.45 MILES



LOCATION OF SECTION INDICATED THIS: - - -

"THE ACCEPTANCE OF THIS PROJECT IS BASED ON THE MINIMUM DESIGN CRITERIA UNDER 3R GUIDELINES."

APPROVED 12/23 20 21

Clay Metcalf
LIVINGSTON COUNTY OFFICIAL

PASSED 1-4 20 22

Steve Chappell
DISTRICT THREE LOCAL ROADS & STREETS ENGINEER

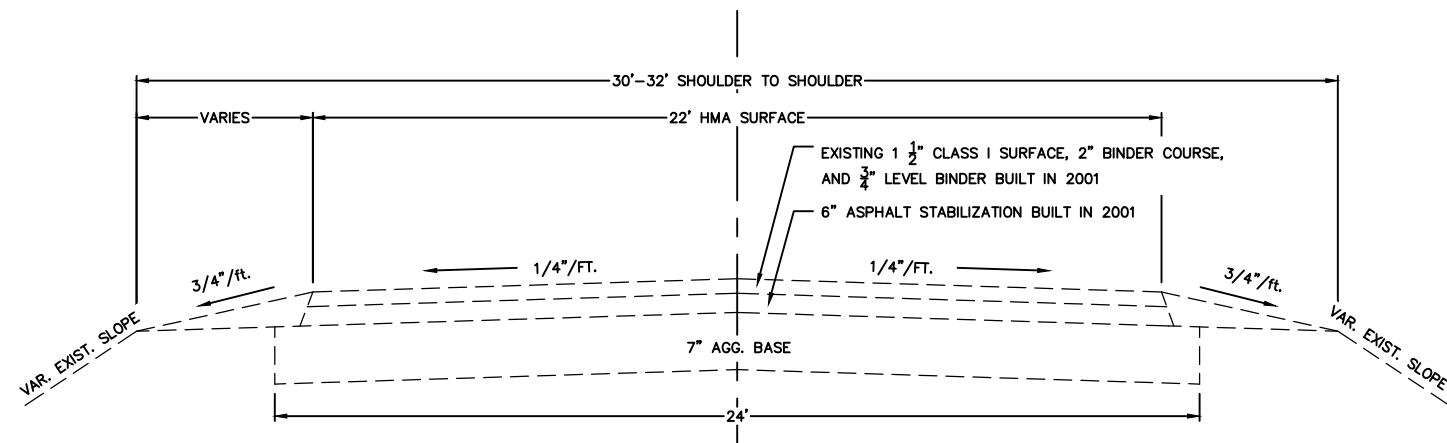
1-4 20 22

Morgan Chappell
REGION TWO ENGINEER

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

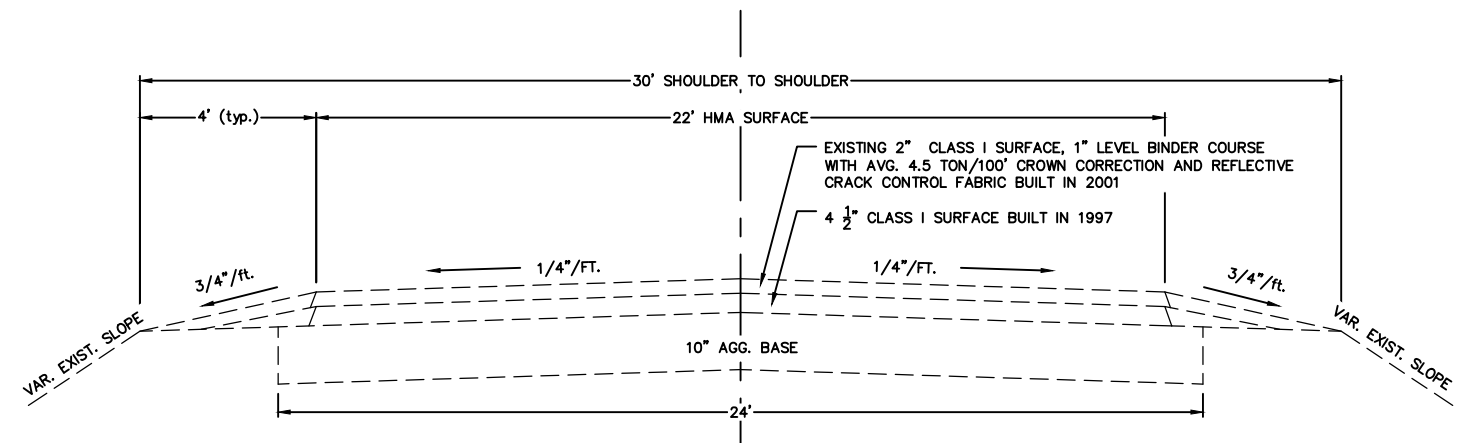
NOT PLOTTED TO SCALE

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
349	18-00120-03-RS	LIVINGSTON	4	2
PROJECT NO. IKLQ(976)		CONTRACT NO. 87775		



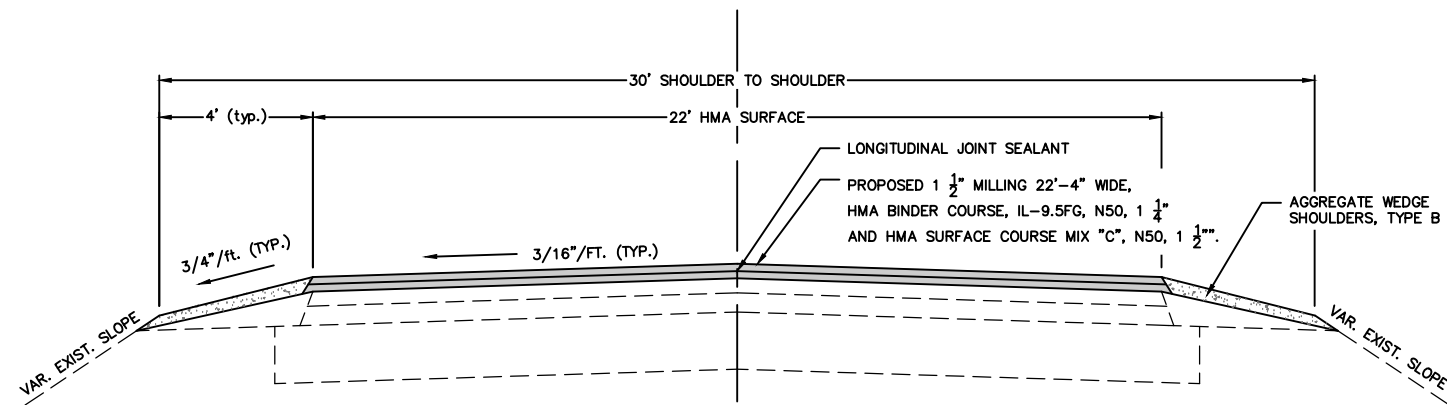
EXISTING TYPICAL CROSS SECTION (NTS)

STA. 0+45 TO STA. 116+58
 STA. 117+84 TO STA. 146+62
 STA. 149+02 TO STA. 158+00



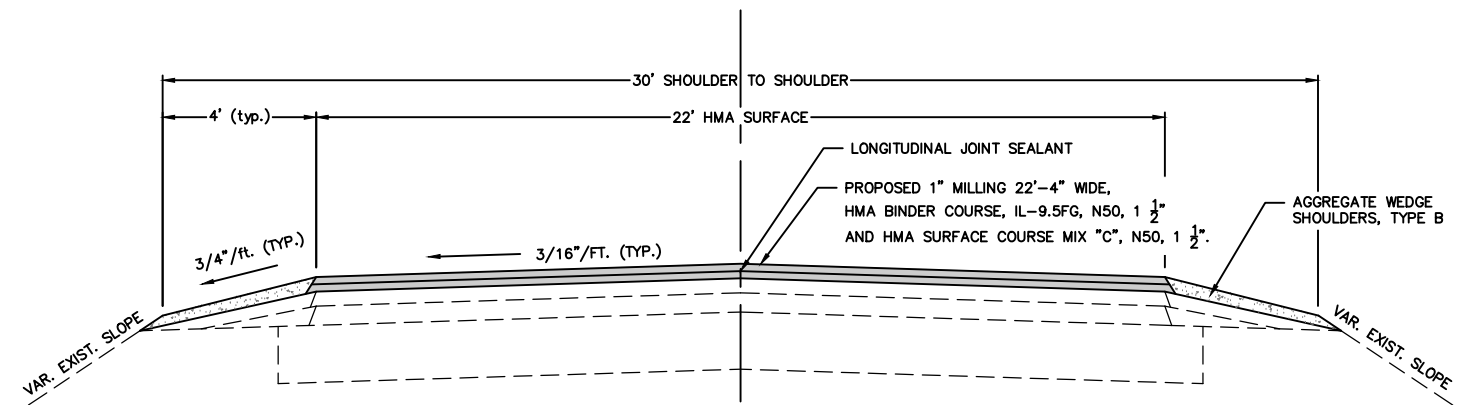
EXISTING TYPICAL CROSS SECTION (NTS)

STA. 159+66 TO STA. 398+50



PROPOSED TYPICAL CROSS SECTION (NTS)

STA. 0+45 TO STA. 116+58
 STA. 117+84 TO STA. 146+62
 STA. 149+02 TO STA. 158+00



PROPOSED TYPICAL CROSS SECTION (NTS)

STA. 159+66 TO STA. 398+50

BITUMINOUS MIX TABLE

Mixture Use(s)	HMA Binder	HMA Surface	HMA Incidental
Location(s)	ENTIRE PROJECT	ENTIRE PROJECT	ENTIRE PROJECT
PG Grade	PG64-22	PG64-22	PG64-22
Design Air Voids	4.0% @ N50	4.0% @ N50	4.0% @ N50
Mixture Composition	IL 9.5FG	IL 9.5FG	IL 9.5FG
Friction Aggregate	N/A	Mixture C	Mixture C
Density Test Method	Cores / Correlation	Cores / Correlation	Satisfaction of Engineer
Mixture Weight	112 # / s.y. / inch	112 # / s.y. / inch	112 # / s.y. / inch
Quality Management Program	QC/QA	QC/QA	QC/QA
Sublot Size	N/A	N/A	N/A
Material Transfer Device	NO	YES	NO

Sec. 18-00120-03-RS: Weston Road (CH 10)
 LIVINGSTON COUNTY STA. 0+00 TO STA. 157+74.6

STRUCTURAL DESIGN DATA 80,000#			
CLASS III ROAD DESIGN PERIOD 20 YEARS			
CURRENT A.D.T.	1250	YEAR:	2042
STRUCTURAL DESIGN TRAFFIC:	1450		
PERCENT OF DESIGN TRAFFIC IN DESIGN LANE:			
P.C. 80%	S.U. 10%	M.U. 10%	
P.C. 1160	S.U. 145	M.U. 145	
MINIMUM SOIL SUPPORT: IBR= 3.0			
TRAFFIC FACTOR (T.R.)=	0.717		
STRUCTURAL NUMBER (D _t)=	3.95		
PAVEMENT STRUCTURE MATERIALS:			
SURFACE: PROPOSED HMA PAVEMENT	2.75 @ 0.40	a1= 1.10	
BASE: EXISTING HMA SURFACE	2.75 @ 0.30	a2= 0.83	
BASE: BITUMINOUS STABILIZATION	6 @ 0.25	a3= 1.50	
SUBBASE: EXISTING AGGREGATE BASE COURSE	7 @ 0.08	a5= 0.56	
	PROPOSED D _t TOTAL = 3.99		

NOTE: EXISTING HMA PAVEMENT THICKNESS & AGG. BASE THICKNESS BASED ON EXISTING PLANS

Sec. 18-00120-03-RS: Weston Road (CH 10)
 LIVINGSTON COUNTY STA. 159+40.2 TO STA. 397+80

STRUCTURAL DESIGN DATA 80,000#			
CLASS III ROAD DESIGN PERIOD 20 YEARS			
CURRENT A.D.T.	1600	YEAR:	2042
STRUCTURAL DESIGN TRAFFIC:	1850		
PERCENT OF DESIGN TRAFFIC IN DESIGN LANE:			
P.C. 88%	S.U. 7%	M.U. 5%	
P.C. 1628	S.U. 129.5	M.U. 92.5	
MINIMUM SOIL SUPPORT: IBR= 3.0			
TRAFFIC FACTOR (T.R.)=	0.499		
STRUCTURAL NUMBER (D _t)=	3.70		
PAVEMENT STRUCTURE MATERIALS:			
SURFACE: PROPOSED HMA PAVEMENT	3.00 @ 0.40	a1= 1.20	
BASE: EXISTING HMA SURFACE	2.00 @ 0.30	a2= 0.60	
BASE: EXISTING HMA SURFACE	4.5 @ 0.25	a3= 1.13	
SUBBASE: EXISTING AGGREGATE BASE COURSE	10 @ 0.08	a5= 0.80	
	PROPOSED D _t TOTAL = 3.73		

NOTE: EXISTING HMA PAVEMENT THICKNESS & AGG. BASE THICKNESS BASED ON EXISTING PLANS

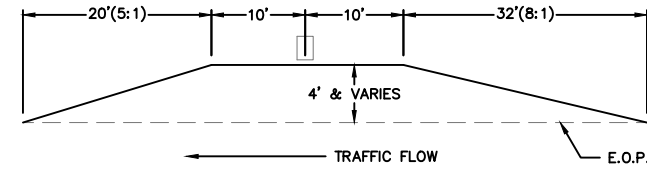
Curve #1 Data	Curve #2 Data	Curve #3 Data
P.I. Sta. 3+25	P.I. Sta. 316+59.69	P.I. Sta. 321+59.37
Δ 16°00'00"	Δ 06°54'24"	Δ 07°10'24"
R(existing) 1600.97'	R(existing) 2565.5'	R(existing) 2316.1'
T 225'	T 154.82'	T 145.18'
L 447.08'	L 309.32'	L 290.13'
E 15.73'	E 4.67'	E 4.54'
e 6.0%	e 4.2%	e 4.6%
D 3'34'44"	D 02'14'00"	D 02'28'26"
T.R. 30.95'	T.R. 40.62'	T.R. 37.99'
S.E. Run 119.05'	S.E. Run 109.38'	S.E. Run 112.01'
P.C. Sta. 1+00	P.C. Sta. 315+04.87	P.C. Sta. 320+14.19
P.T. Sta. 5+47.08	P.T. Sta. 318+14.19	P.T. Sta. 323+04.32

NOT PLOTTED TO SCALE

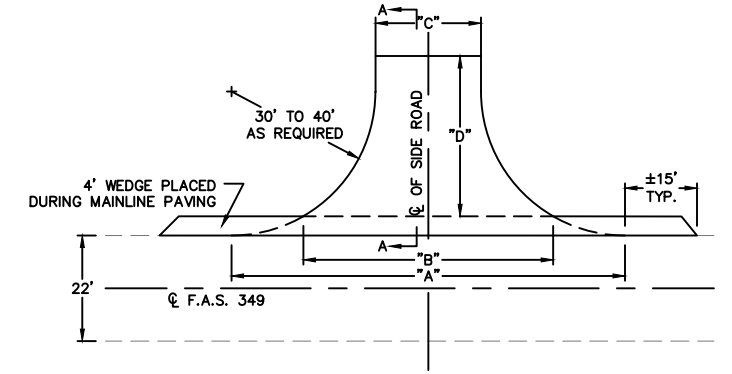
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
349	18-00120-03-RS	LIVINGSTON	4	3
PROJECT NO. IKLQ(976)		CONTRACT NO. 87775		

GENERAL NOTES:

- ALL AREAS WHERE A 4' WING OUT AT FIELD ENTRANCES, PRIVATE ENTRANCES AND SIDE ROADS SHALL BE CONSTRUCTED WITH THE EXTENDABLE SCREED WIDENER AND PAID FROM HOT-MIX ASPHALT BINDER AND HOT-MIX ASPHALT SURFACE COURSE PAY ITEMS.
- ALL PRIVATE ENTRANCES, COMMERCIAL ENTRANCES, SIDE ROADS, AND SOME RURAL MAILBOX TURNOUTS ARE TO BE CONSTRUCTED AND PAID FROM INCIDENTAL HOT-MIX ASPHALT SURFACING AND SHALL BE LAID OUT BY THE ENGINEER.
- AGGREGATE SHOULDERS SHALL BE PLACED ALONG ALL SIDEROAD RETURN RADII AND SHALL BE PLACED ALONG AND BEHIND ALL FIELD ENTRANCES, MAILBOX TURNOUTS, AND ALL PRIVATE AND COMMERCIAL ENTRANCES UNLESS SPECIFIED BY THE ENGINEER.

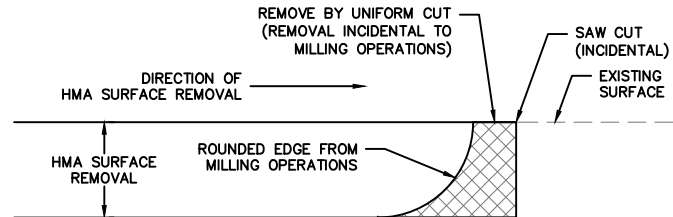


MAILBOX TURNOUT DETAIL (NTS)
PLACED DURING MAINLINE PAVING



TYPICAL SIDE ROAD INTERSECTION (NTS)

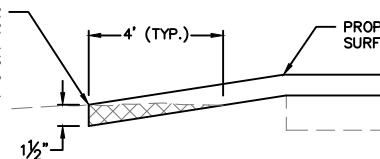
STA. 53+07	LT. & RT.	(1000N)
STA. 106+14	LT. & RT.	(1100N)
STA. 212+04	LT. & RT.	(1300N)
STA. 265+07	LT. & RT.	(1400N)
STA. 319+49	LT. & RT.	(1500N)
STA. 345+96	RT.	(1550N)



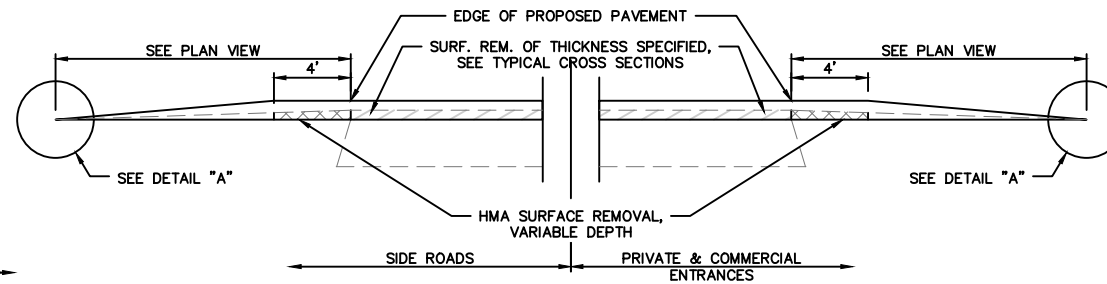
NOTE: WHEN MILLING OPERATIONS PRODUCE A ROUNDED EDGE, THEN A SAW CUT SHALL BE USED TO MANUFACTURE A PERPENDICULAR EDGE AS SHOWN IN THE DETAIL. THE ENGINEER SHALL BE THE SOLE JUDGE CONCERNING THE USE OF THIS DETAIL.

HMA DETAIL AT BUTT JOINTS

THE COST OF REMOVAL AT EXISTING HMA OR PCC LOCATIONS SHALL BE PAID FOR PER SQ YD BY THE APPROPRIATE PAY ITEM. REMOVAL AT THE EXISTING AGG LOCATIONS SHALL BE INCIDENTAL TO THE HMA. A-3 LOCATIONS SHALL BE FEATHER TAPERED.

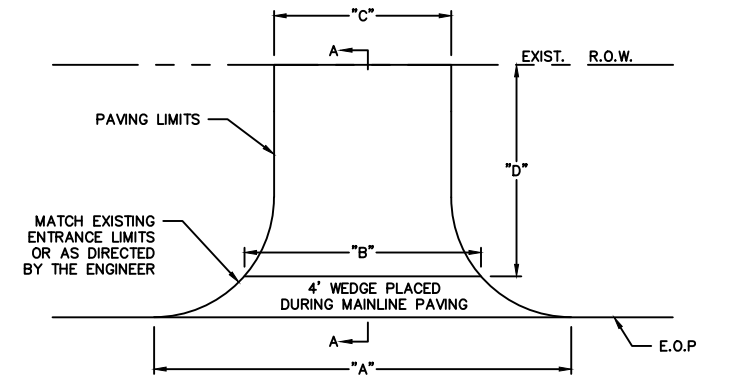


DETAIL A

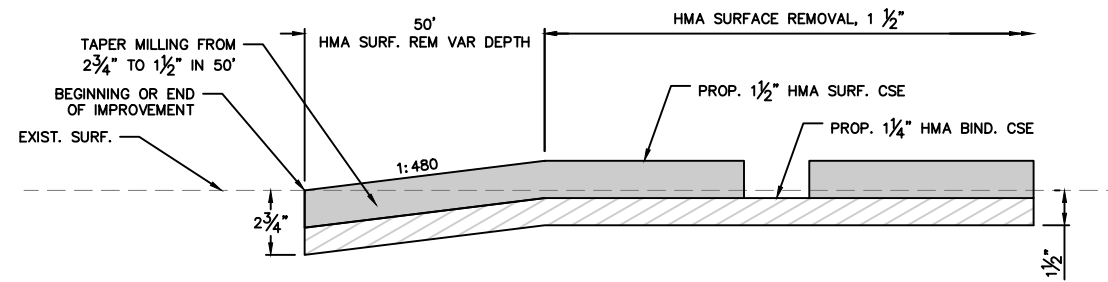


NOTE: HMA SURFACE REMOVAL, VARIABLE DEPTH SHALL BE COMPLETED BEFORE MAINLINE PAVING IN ORDER TO ALLOW FOR THE 4' WEDGE TO BE PLACED AT SIDE ROADS AND ENTRANCES.

SECTION A-A
DETAILS AT ENTRANCES & SIDE ROADS

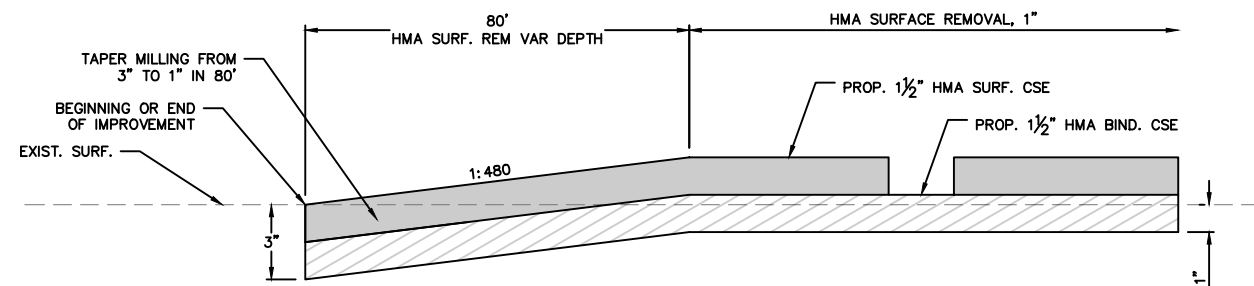


P.E. / C.E. DETAILS (NTS)
SEE TABLE FOR QUANTITIES



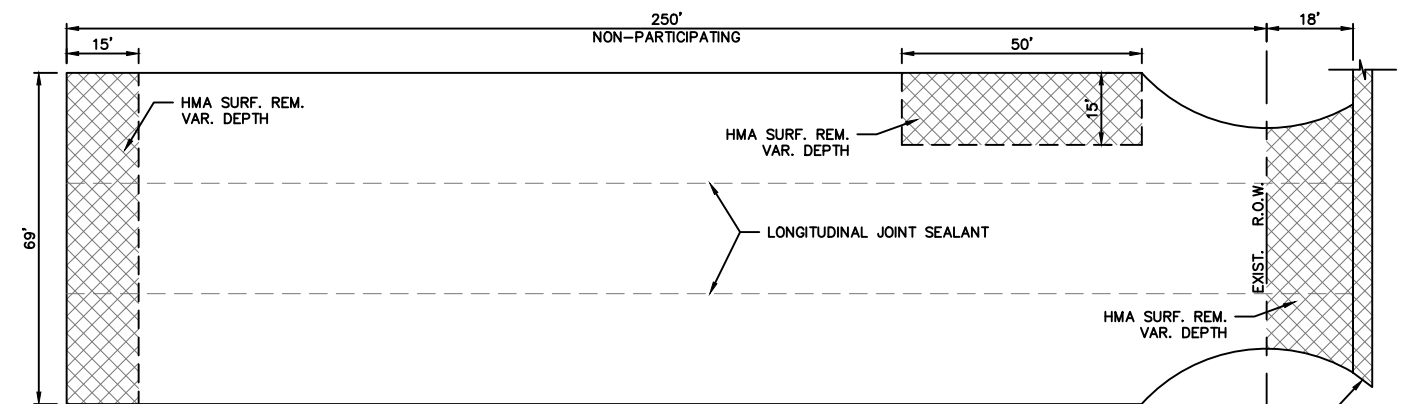
A. BEGINNING & END OF IMPROVEMENTS (NTS)

STA. 0+45 TO STA. 116+58
STA. 117+84 TO STA. 146+62
STA. 149+02 TO STA. 158+00



BEGINNING & END OF IMPROVEMENTS (NTS)

STA. 159+66 TO STA. 398+50



NOTES:

- HMA SURFACE REMOVAL 1" ENTIRE AREA (UNLESS NOTED OTHERWISE).
- LONGITUDINAL JOINT SEALANT SHALL BE PLACED AT THE JOINT LOCATIONS.
- FILL WITH HOT-MIX ASPHALT SURFACE COURSE, IL-9.5FG, MIX "C", N50 1 1/2".
- HMA MIXTURE AND COMPACTION SHALL MEET THE REQUIREMENTS OF THE HMA SURFACE IN THE BITUMINOUS MIX TABLE.

CE STA. 386+74(L)
PARKING LOT DETAIL (NTS)
SEE ENTRANCE TABLE FOR QUANTITIES AND DIMENSIONS NOT SHOWN

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
349	18-00120-03-RS	LIVINGSTON	4	4
PROJECT NO. IKLQ(976)		CONTRACT NO. 87775		

SCHEDULE OF RESURFACING QUANTITIES

LOCATION (QUANTITY)	LENGTH	Paving width	HMA SURF REMOVAL VAR DEPTH (SQ YD)	SHORT-TERM PAVT MARKING (FOOT)	SHORT-TERM PAVT MARKING (SQ FT)	PAINT PVT MARKING LINE, 4" (FOOT)	BIT MATLS TACK CT (POUND)	BIT MATLS PR CT (POUND)	HMA SURF REMOVAL 1.50" DEPTH (SQ YD)	HMA SURF REMOVAL 1.00" DEPTH (SQ YD)	Unit weight Constant = 112.0 lbs./sq.inch			AGG SHLD TYPE B (Special) (TON)
											BINDER CSE IL-9.5FG N50 (TON)	HMA SURF CSE "C" N50 (TON)	INCIDENTAL BIT SURF (TON)	
MAINLINE														
0+45. to 0+95. (TAPER)	50	26	146	(5 Apps.) 25	(1 App.) 2	S C H E D U L E	97	-	-	-	10	12	-	2
0+95. to 5+50. (EXTRA WIDTH 4' LT)	455	26	-	230	15		796	455	1331	-	93	110	-	14
5+50. to 116+08.	11058	22	-	5530	369		18,246	-	27440	-	1,921	2,271	-	700
116+08. to 116+58. (TAPER)	50	22	124	25	2		82	-	-	-	9	10	-	2
PCC PAVEMENT OMISSION	126	22	-	-	-		-	-	-	-	-	26	-	-
117+84. to 118+34. (TAPER)	50	22	-	25	2		82	-	-	-	9	10	-	2
118+34. to 146+12.	2778	22	-	1390	93		4,584	-	6894	-	483	570	-	176
146+12. to 146+62. (TAPER)	50	22	124	25	2		82	-	-	-	9	10	-	2
PCC PAVEMENT OMISSION	240	22	-	-	-		-	-	-	-	-	49	-	-
149+02. to 149+52. (TAPER)	50	22	124	25	2		-	-	-	-	9	10	-	2
149+52. to 157+50.	798	22	-	400	27		1,317	-	1980	-	139	164	-	50
157+50. to 158+00. (TAPER)	50	22	124	25	2		82	-	-	-	9	10	-	2
PCC PAVEMENT OMISSION	166	22	-	-	-		-	-	-	-	-	34	-	-
159+66. to 160+46. (TAPER)	80	22	199	40	3		132	-	-	-	17	16	-	4
160+46. to 315+05.	15459	22	-	7730	515	25,508	-	-	38361	3,222	3,174	-	1565	
315+05. to 318+14. (EXTRA WIDTH 4' LT)	309	26	-	155	10	541	309	-	904	76	75	-	16	
318+14. to 320+14.	200	22	-	100	7	330	-	-	496	42	41	-	20	
320+14. to 323+04. (EXTRA WIDTH 4' RT)	290	26	-	145	10	508	290	-	849	71	70	-	15	
323+04. to 397+70.	7466	22	-	3735	249	12,319	-	-	18527	1,556	1,533	-	756	
397+70. to 398+00. (TAPER)	30	22	74	15	1	49	-	-	-	6	6	-	2	
398+00. to 398+50. (TAPER)	50	27	149	25	2	99	-	-	-	13	12	-	2	
TOTAL JOB LENGTH OR MAINLINE QUANTITY	39805		1064	19645	1313	0	64855	1054	37645	59137	7692	8213	0	3332
MISCELLANEOUS														
PRIVATE & COMMERCIAL ENTRANCES (16)	-		881	-	-	-	1408	1012	-	1673	27	196	205	-
SIDEROAD INTERSECTIONS (6)	-		531	-	-	-	815	-	-	-	23	24	226	-
M.B.T.O.'s (1)	-		20	-	-	-	14	-	-	-	2	2	-	-
TOTALS OF MAINLINE & MISC.	39,805		2,496	19,645	1,313	0	67,092	2,066	37,645	60,810	7,744	8,435	431	3,332

SCHEDULE OF PAINT PAVEMENT MARK 4"			
LOCATION	NO PASSING ZONE	SKIP DASH	
STATION TO STATION	NBL	SBL	CL
0+ to 2+45	245	245	*
2+45 to 13+95		1,150	290
13+95 to 388+61			9,370
388+61 to 398+50	989		250
TOTALS	1,234	1,395	9,910
TOTAL PAY QUANTITY		12,539	FOOT

WESTON RD / CH 10 - INTERSECTION QUANTITIES									
LOCATION	A(Ft.)	B(Ft.)	C(Ft.)	D(Ft.)	HMA SURF REM VAR DEPTH (S.Y.)	BIT. MAT. (TACK COAT) (LB)	BINDER COURSE	SURFACE COURSE	INCID. BIT.
1000N (R)	70	61	21	31	43	92	3	4	22
1000N (L)	-	110	110	6	73	33	0	0	11
1100N (R)	55	46	19	26	36	67	3	3	14
1100N (L)	-	45	40	15	71	32	0	0	11
1300N (R)	58	51	19	22	37	64	3	3	14
1300N (L)	60	45	19	18	38	55	3	3	11
1400N (R)	70	60	22	26	43	82	4	4	20
1400N (L)	61	53	20	30	39	81	3	3	20
1500N (R)	74	58	24	30	44	82	0	0	30
1500N (L)	102	89	27	36	57	130	0	0	49
1550N (R)	87	69	21	28	50	97	4	4	24
TOTALS					531	815	23	24	226

WESTON RD / CH 10 - ENTRANCE QUANTITIES													
TYPE	STATION	A(Ft.)	B(Ft.)	C(Ft.)	D(Ft.)	HMA SURF REM VAR DEPTH (S.Y.)	HMA SURF REM 1" (S.Y.)	BIT. MAT. (TACK COAT) (LB)	BIT. MAT. (PRIME COAT) (LB)	BINDER COURSE	SURFACE COURSE	INCID. BIT.	
PE	103+42(R)	71	62	53	25	30	-	7	426	2	2	25	
CE	110+00(R)	65	55	35	25	42	-	74	-	2	2	20	
CE	153+70(R)	75	64	41	20	31	-	7	332	2	3	18	
PE	155+84(R)*	44	40	26	15	42	-	45	-	2	3	9	
CE	164+64(L)	68	59	34	16	43	-	56	-	2	2	14	
PE	204+29(R)	43	34	13	18	17	-	33	-	1	1	8	
MBTO**	235+92(L)	-	98	20	6	44	-	18	-	-	-	7	
PE	236+52(L)	47	36	14	18	18	-	35	-	2	2	9	
MBTO**	273+60(L)	-	87	47	8	39	-	27	-	-	-	11	
PE	273+60(L)	-	28	12	10	-	-	10	-	-	-	4	
PE	283+44(R)	46	35	13	18	24	-	34	-	2	2	9	
MBTO	372+58(L)	-	52	36	9	23	-	20	-	-	-	8	
PE	372+58(L)	-	20	13	9	-	-	7	-	-	-	3	
MBTO**	374+05(R)	-	72	41	7	44	-	20	-	-	-	8	
CE	386+74(L)*	78	75	46	18	167	-	31	-	4	14	-	
PARKING LOT	386+74(L)	SEE DETAIL ON SHEET 3				198	1,673	842	-	-	-	157	-
CE	391+10(L)	55	47	43	18	23	-	5	254	2	2	16	
CE	393+59(L)	74	63	29	18	43	-	62	-	3	3	16	
CE	395+58(R)	43	34	14	18	23	-	33	-	1	1	9	
CE	398+10(R)	49	42	21	18	30	-	42	-	2	2	11	
MBTO	1 Total	72	20	-	-	20	-	14	-	2	2	-	
TOTALS						901	1,673	1,422	1,012	29	198	205	

* DIMENSIONS ARE TO THE CL OF MAILBOX. QUANTITIES INCLUDE THE MBTO.