

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
355	10-00196-03-RS	LIVINGSTON	5	1

PROJECT NO. RS-0355(121)

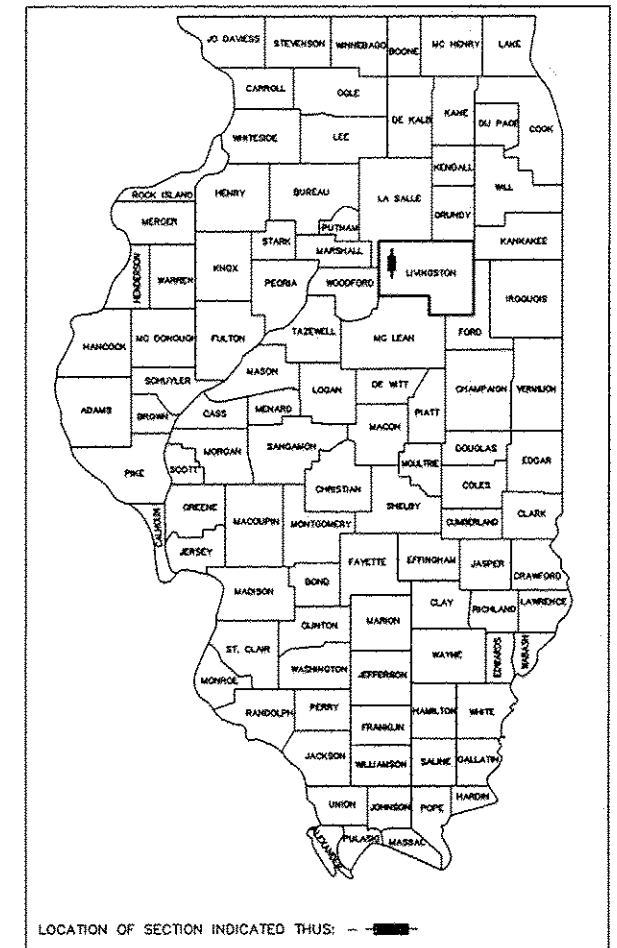
INDEX OF SHEETS

- COVER SHEET, STANDARDS, & SUMMARY OF QUANTITIES
- TYPICAL CROSS-SECTIONS & ENTRANCE SCHEDULE
- TRANSITION AT BRIDGES DETAILS
- INTERSECTION, MAILBOX & RUMBLE STRIP DETAILS
- SCHEDULE OF RESURFACING QUANTITIES

HIGHWAY STANDARDS

- 701301-04 LANE CLOSURE 2L, 2W SHORT TIME OPERATIONS
- 701306-03 LANE CLOSURE 2L, 2W SLOW MOVING OPERATIONS DAY ONLY ≥45MPH
- 701311-03 LANE CLOSURE 2L, 2W MOVING OPERATIONS DAY ONLY
- 701901-02 TRAFFIC CONTROL DEVICES
- 780001-03 TYPICAL PAVEMENT MARKINGS
- BLR 21-9 TYP. APP. OF TRAF. CTRL. DEVICES - RD. CLOSED TO ALL TRAFFIC
- BLR 22-7 TYP. APP. OF TRAF. CTRL. DEVICES - RD. CLOSED TO THRU TRAFFIC

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
**PLANS FOR PROPOSED
FEDERAL AID HIGHWAY
SURFACE TRANSPORTATION PROGRAM**
F.A.S. ROUTE 355, CH 16, (FLANAGAN-LONG POINT RD)
SECTION 10-00196-03-RS
PROJECT RS-0355(121)
LIVINGSTON COUNTY
C-93-096-12



SUMMARY OF QUANTITIES CONST. CODE 0005			
ITEM NO.	ITEM	UNIT	QUANTITIES
40600100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	6,481.0
40600300	AGGREGATE (PRIME COAT)	TON	235.0
40600625	LEVELING BINDER (MACHINE METHOD), N50	TON	6,801.0
40603310	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	TON	10,380.0
40800050	INCIDENTAL HOT-MIX ASPHALT SURFACING	TON	422.0
44201723	CLASS D PATCHES, TYPE IV, 6 INCH	SQ YD	100.0
44300100	AREA REFLECTIVE CRACK CONTROL TREATMENT	SQ YD	118,978.0
48102100	AGGREGATE WEDGE SHOULDER, TYPE B	TON	6,209.0
58100200	WATERPROOFING MEMBRANE SYSTEM	SQ YD	469.0
67100100	MOBILIZATION	L SUM	1.0
70300100	SHORT TERM PAVEMENT MARKING	FOOT	9,970.0
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	1,661.0
Δ 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	12,456.0
* X4401198	HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH	SQ YD	2,447.0
* X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1.0
* Z0004556	HOT-MIX ASPHALT SURFACE REMOVAL (DECK)	SQ YD	469.0
* Z0029300	GROUT REPAIR	FOOT	50.0
* Z0055300	RUMBLE STRIP	EACH	8.0
† Z0076600	TRAINEES	HOUR	1,000.0
† * Z0076604	TRAINEES TRAINING PROGRAM GRAVATE	HOUR	1,000

* SEE SPECIAL PROVISIONS

Δ SPECIALTY ITEMS

† 0042

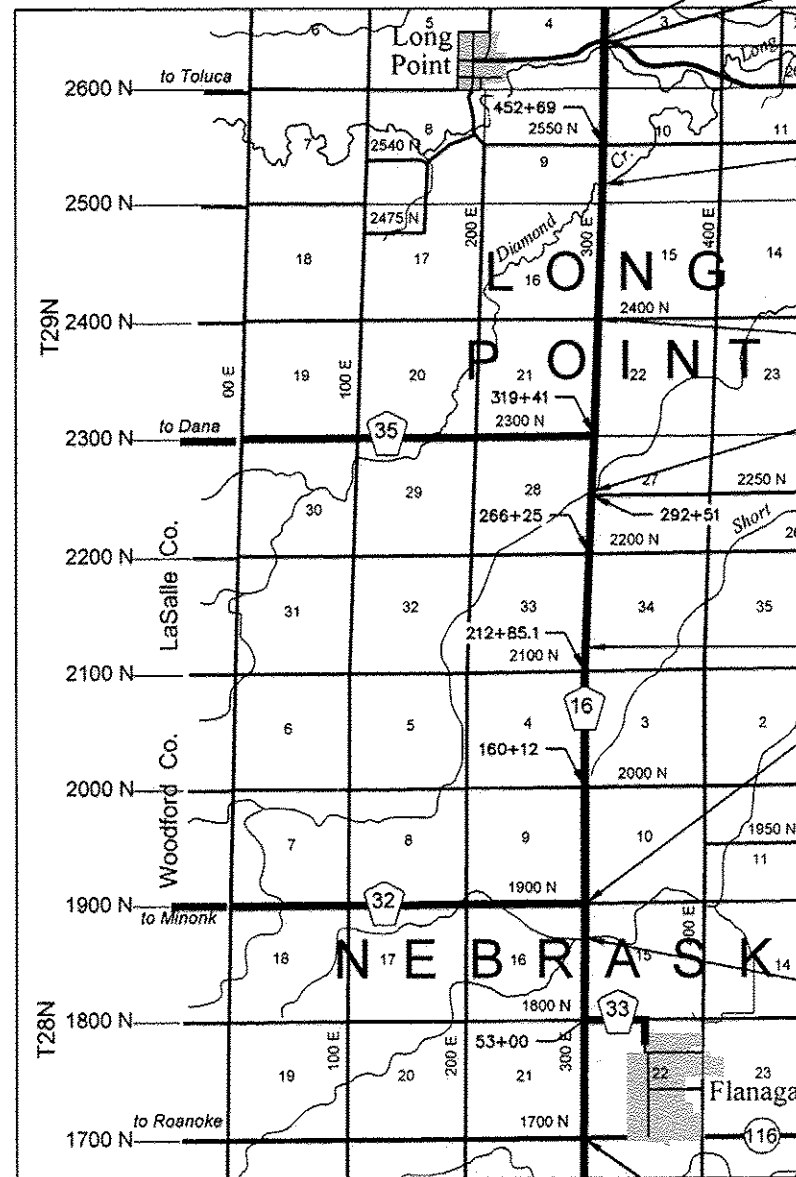
UTILITIES

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

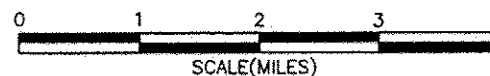
TRAFFIC DATA

C.H. 16 - COLLECTOR
POSTED SPEED = 55 MPH-RURAL
DESIGN SPEED = 50 MPH-RURAL
DESIGN ADT= 1025/ YR 2028, 15 YEAR D.P.
CLASS III ROADS, 80,000# DESIGN

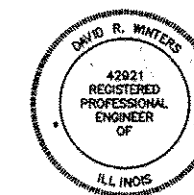
THIS PROJECT CONSISTS OF HMA LEVELING BINDER, HMA SURFACE COURSE, MIX "C", N50, AND AGGREGATE SHOULDERS BEGINNING AT A POINT NEAR THE INTERSECTION OF CH 16 AND IL RT 116 (1700N), WEST OF FLANAGAN, ILLINOIS AND EXTENDING IN A NORTHERLY DIRECTION TO THE INTERSECTION OF CH 16 (2640N) ALSO KNOWN AS THE LONG POINT SPUR.



R 3 E, 3rd PM
GROSS LENGTH = 49,995' = 9.469 MILES
NET LENGTH = 49,825.36' = 9.437 MILES



- C.L. OF LONG POINT SPUR & CH 16, STA 500+41
- END IMPROVEMENT STA 500+28
- S.N. 053-3447, STA 498+51.72 TO 499+92.36, NOT AN OMISSION, 29.3' WIDE X 140.7' LONG
- S.N. 053-3032, STA 434+26.5 TO 434+69.5 NOT AN OMISSION, 34' WIDE X 43' LONG
- STA EQ 372+65 Bk = 373+00 Ah (-35.0')
- S.N. 053-3033, STA 292+88.5 TO 293+33.5, OMISSION, 30' WIDE X 45' LONG
- STA EQ 217+84.81 Bk = 217+85.45 Ah (-0.64')
- STA EQ 106+11 Bk = 107+00 Ah (-89.0')
- S.N. 053-3034, STA 90+28 TO 90+52 NOT AN OMISSION, 30' WIDE X 24' LONG
- BEGIN IMPROVEMENT STA 0+33



THESE PLANS WERE MADE BY ME OR BY A MEMBER OF MY STAFF WORKING UNDER MY PERSONAL SUPERVISION.
DATE 02-09-13
COUNTY ENGINEER, P.E. NO. 42921
EXPIRATION DATE 11/30/2013

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

APPROVED: *David R. Walters* 02-09-13
LIVINGSTON COUNTY OFFICIAL

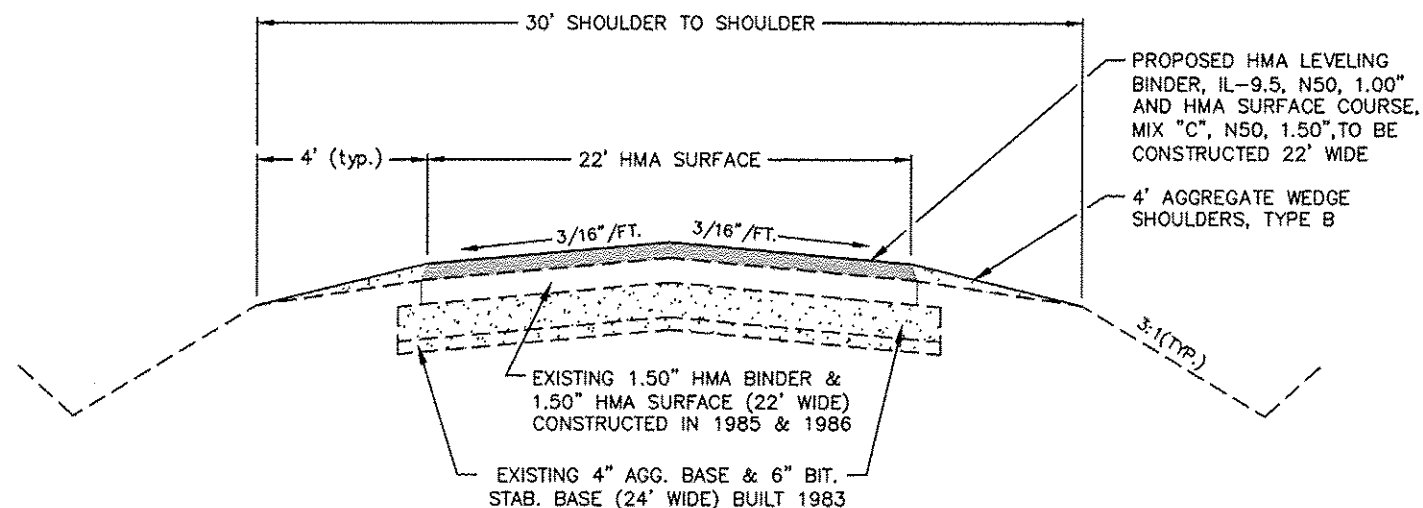
PASSED: *Donald R. Edwards* 2-14-13
DISTRICT THREE LOCAL ROADS & STREETS ENGINEER

RELEASING FOR BID BASED ON LIMITED REVIEW: *Paul A. Johnson* 2-14-13
DEPUTY DIRECTOR OF HIGHWAYS, REGION TWO ENGINEER
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

NOT PLOTTED TO SCALE

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
355	10-00196-03-RS	LIVINGSTON	5	2

PROJECT NO. RS-0355(121)

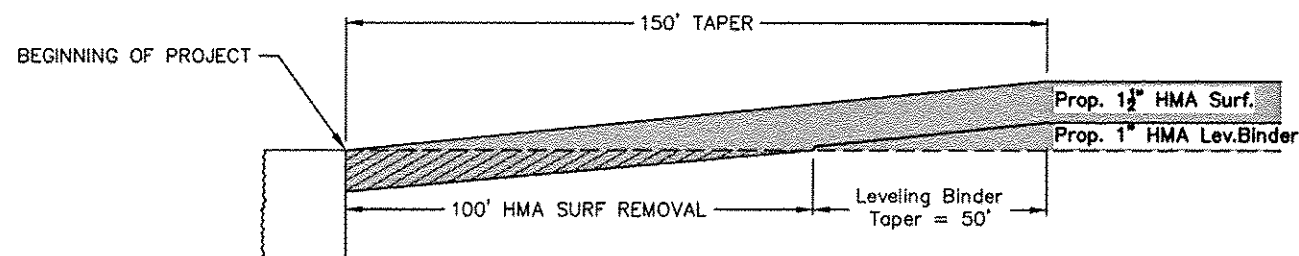


TYPICAL CROSS SECTION (NTS)

Sta. 0+33 to 500+28

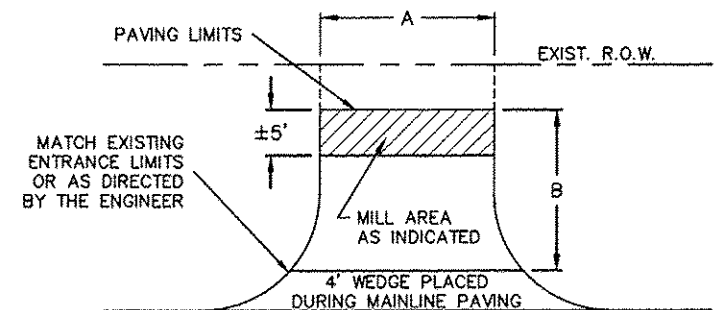
See Transition Details at Bridges for Proposed HMA Variations

	HMA Level Binder	HMA Surface	HMA Incidental
PG Grade	PG64-22		
Design Air Voids	4.0% @ N50	4.0% @ N50	4.0% @ N50
Mixture Composition	IL 9.5	IL 9.5	IL 9.5
Friction Aggregate	N/A	Mixture C	Mixture C
Density Test Method	Satisfaction of Engineer	Correlation	Satisfaction of Engineer



BEGINNING TAPER (NTS)

Sta. 0+33 TO 2+33 (FAS RTE. 355)



P.E. / C.E. DETAIL (NTS)

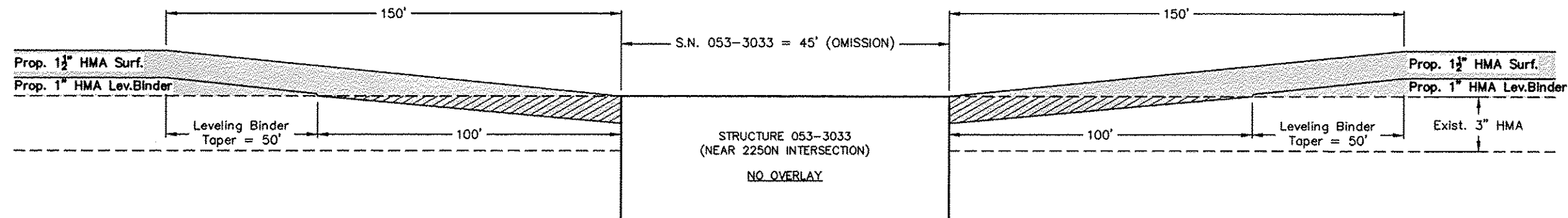
FOR QUANTITIES SEE CHART BELOW

TYPE	STATION	A(Ft.)	B(Ft.)	AREA (S.Y.)	MILLING (S.Y.)	BIT. MAT. PRIME(MC-30)	LEVEL BINDER	SURFACE COURSE	INCID. BIT.
*PE	4+84(L)	17	15	28		7	1	2	5
CE	13+57(L)	40	15	67		17	2	2	12
*CE	15+08(L)	40	15	67		17	2	2	12
*PE	21+29(L)	17	15	28		7	1	2	5
*CE	23+35(L)	27	15	45		11	1	2	8
CE	24+96(L)	31	15	52		13	2	2	9
CE	26+41(L)	17	15	28		7	1	2	5
PE	27+21(L)	17	15	28		7	1	2	5
*PE	31+96(R)	17	15	28		7	1	2	5
PE	33+14(R)	23	15	38		10	1	2	7
PE	70+99(R)	17	15	28	9		1	2	5
PE	142+53(R)	17	15	28		7	1	2	5
PE	191+67(R)	35	15	58		15	2	2	10
*PE	193+15(R)	24	15	40		10	1	2	7
*PE	233+02(R)	17	15	28		7	1	2	5
PE	318+04(R)	12	15	20		5	1	1	4
*PE	347+81(R)	17	15	28		7	1	2	5
*PE	383+88(L)	21	15	35		9	1	2	6
CE	396+92(L)	17	15	28		7	1	2	5
*PE	398+34(L)	20	15	33		8	1	2	6
*PE	410+53(R)	15	15	25		6	1	1	5
*PE	424+92(L)	23	15	38		10	1	2	7
*PE	427+87(R)	15	15	25		6	1	1	5
*PE	438+68(L)	17	15	28		7	1	2	5
PE	439+72(L)	15	15	25		6	1	1	5
*PE	492+95(R)	15	15	25		6	1	1	5
PE	493+34(L)	26	15	43		11	1	2	8
*PE	494+88(L)	12	15	20		5	1	1	4
PE	496+18(L)	23	15	38		10	1	2	7
*MBTO	16 Total			302		0	14	22	
TOTALS					9	245	47	74	182

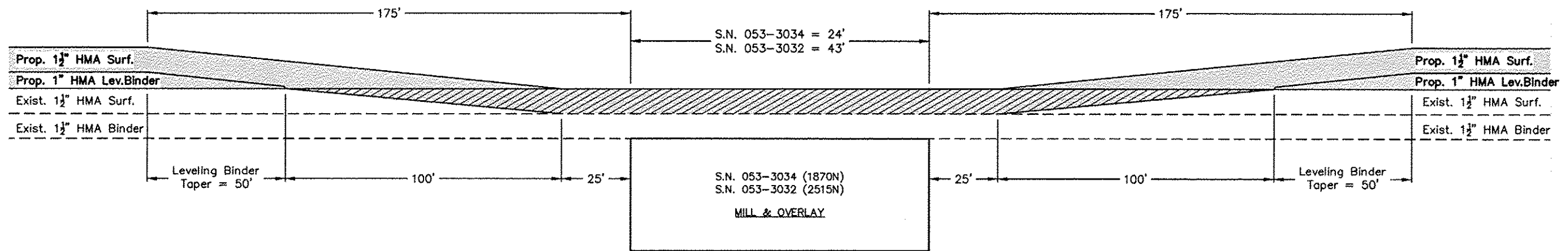
NOT PLOTTED TO SCALE

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
355	10-00196-03-RS	LIVINGSTON	5	3

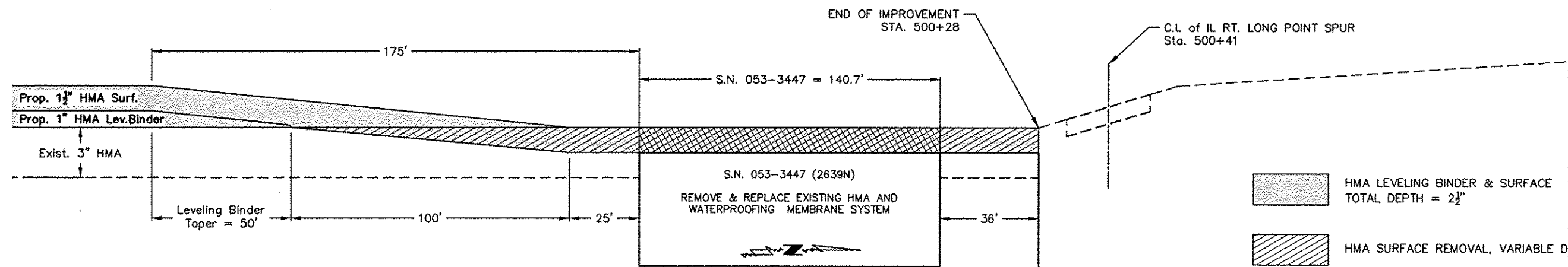
PROJECT NO. RS-0355(121)



TRANSITION WITH NO OVERLAY ON BRIDGE (NTS)



TRANSITION WITH MILL & OVERLAY AT BRIDGES (NTS)



TRANSITION WITH MILL & OVERLAY AT BRIDGE (NTS)

- HMA LEVELING BINDER & SURFACE
TOTAL DEPTH = 2 1/2"
- HMA SURFACE REMOVAL, VARIABLE DEPTH
- HMA SURFACE REMOVAL, DECK

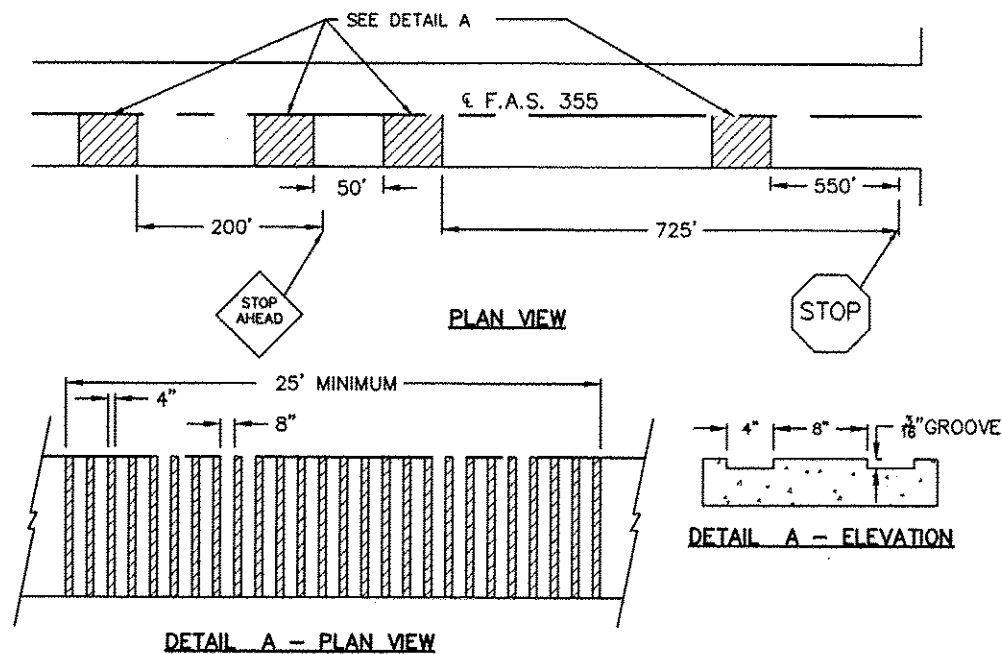
END OF IMPROVEMENT
STA. 500+28

C.L. of IL RT. LONG POINT SPUR
Sta. 500+41

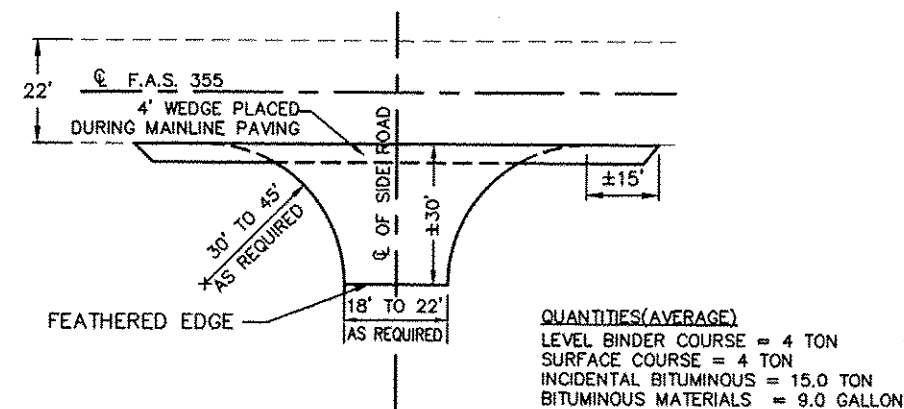
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
355	10-00196-03-RS	LIVINGSTON	5	4

PROJECT NO. RS-0355(121)

NOT PLOTTED TO SCALE



GROOVED RUMBLE STRIP APPLICATION (NTS)
IN ADVANCE OF IL 116 (1700N) & LONG POINT SPUR (2640N) INTERSECTIONS

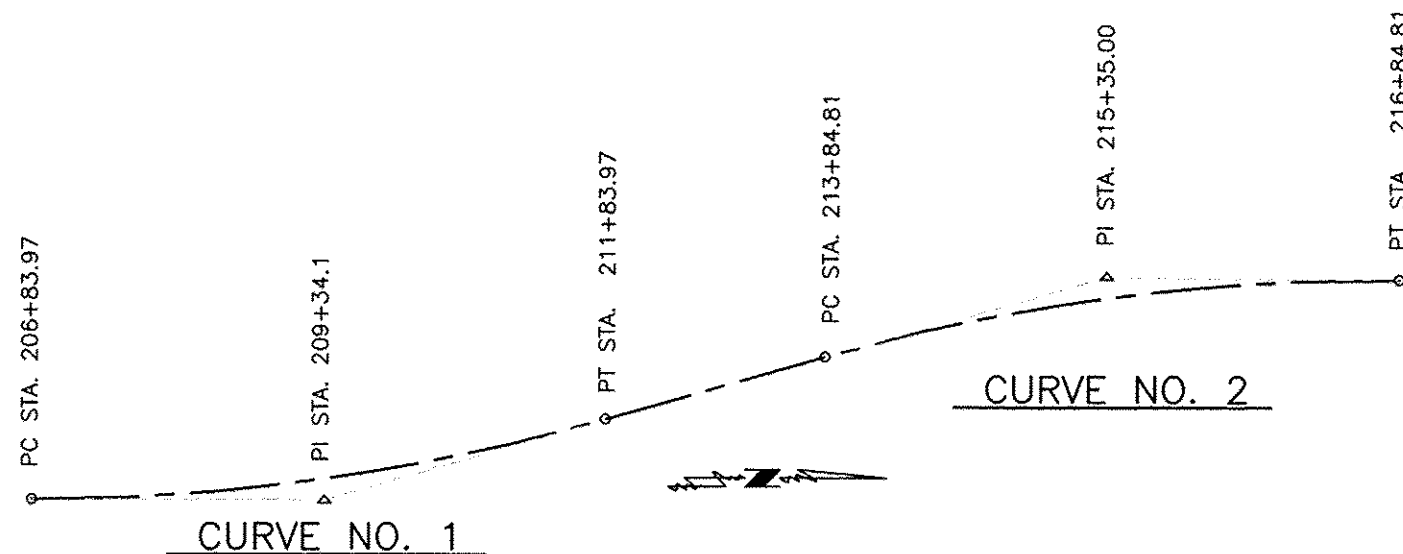


TYPICAL SIDE ROAD INTERSECTION (NTS)

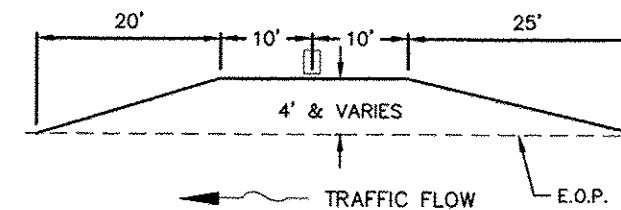
QUANTITIES (AVERAGE)

LEVEL BINDER COURSE = 4 TON
SURFACE COURSE = 4 TON
INCIDENTAL BITUMINOUS = 15.0 TON
BITUMINOUS MATERIALS = 9.0 GALLON

STA. 53+00 LT. & RT. (1800N)	STA. 292+51 RT. (2250N)
STA. 107+00 LT. & RT. (1900N)	STA. 319+41 LT. (2300N)
STA. 160+12 LT. & RT. (2000N)	STA. 372+65 LT. & RT. (2400N)
STA. 212+85 LT. & RT. (2100N)	STA. 452+69 LT. & RT. (2550N)
STA. 266+25 LT. & RT. (2200N)	



CURVE DATA								
CURVE NO.	DELTA ANGLE	TANGENT LENGTH	RADIUS	Dc	SE TRANS L	L	E	SE RATE
1	4° 30' 43.2"	215.13'	6349.27'	0° 54' 06.64"	150.00'	500.00'	4.93'	0.020'/FT
2	7° 10' 03.2"	150.19'	2398.13'	2° 23' 21.07"	150.00'	300.00'	4.70'	0.045'/FT



MAILBOX TURNOUT DETAIL (NTS)
PLACED DURING MAINLINE PAVING

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
355	10-00196-03-RS	LIVINGSTON	5	5

PROJECT NO. RS-0355(121)

SCHEDULE OF RESURFACING QUANTITIES

Unit weight Constant = 112.0 lbs./s.y./inch

LOCATION (QUANTITY)	LENGTH	AREA (SQ YD)	HMA SURF REMOVAL VAR DEPTH (SQ YD)	HMA SURF REMOVAL DECK (SQ YD)	SHORT- TERM PAVT MARKING (FOOT)	WORK ZONE PAVT MK REM (SQ FT)	PAINT PVT MARKING LINE, 4" (FOOT)	BIT MATLS PR CT * (GALLON)	BIT MATLS PR CT MC-30 (GALLON)	AGG PR CT (TON)	AREA REFL CR CONT (SQ YD)	WATERPRF MEMBRANE SYSTEM (SQ YD)	LEVEL BINDER IL-9.5 N50 (TON)	BIT CONC SURF CSE "C" N50 (TON)	INCIDENTAL BIT SURF (TON)	AGG WEDGE SHOULDERS TYPE B (TON)
+33. to 1+83. (TAPER)	150	367	257	-	30	5	38	18	-	-	122	-	7	31	-	13
1+83. to 88+53.	8670	21193	-	-	1734	289	2168	1,060	-	42	21193	-	1,187	1,780	-	1097
88+53. to 90+28. (TAPER)	175	428	244	-	36	6	44	21	-	-	122	-	7	36	-	13
90+28. to 90+52. (053-3034)	24	59	59	-	4	1	6	3	-	-	59	-	3	5	-	-
90+52. to 92+27. (TAPER)	175	428	244	-	36	6	44	21	-	-	122	-	7	36	-	13
92+27. to 106+11.	1384	3383	-	-	276	46	346	169	-	7	3383	-	189	284	-	175
106+11. to 107+00. Sta Eq.	89	218	-	-	-	-	-	-	-	-	-	-	-	-	-	-
107+00. to 217+84.81	11085	27096	-	-	2216	369	2771	1,355	-	54	27096	-	1,517	2,276	-	1403
217+84.81 to 217+85.45 Sta Eq.	0.64	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
217+85.45 to 291+13.5	7328	17913	-	-	1466	244	1832	896	-	36	17913	-	1,003	1,505	-	927
291+13.5 to 292+88.5 (TAPER)	175	428	244	-	36	6	44	21	-	-	122	-	7	36	-	13
292+88.5 to 293+33.5 (053-3033)	45	110	-	-	-	-	-	-	-	-	-	-	-	-	-	-
293+33.5 to 295+08.5 (TAPER)	175	428	244	-	36	6	44	21	-	-	122	-	7	36	-	13
295+08.5 to 372+65.	7757	18960	-	-	1552	259	1939	948	-	38	18960	-	1,062	1,593	-	982
372+65. to 373+00. Sta Eq.	35	86	-	-	-	-	-	-	-	-	-	-	-	-	-	-
373+00. to 432+51.5	5952	14548	-	-	1190	198	1488	727	-	29	14548	-	815	1,222	-	753
432+51.5 to 434+26.5 (TAPER)	175	428	244	-	36	6	44	21	-	-	122	-	7	36	-	13
434+26.5 to 434+69.5 (053-3032)	43	105	105	-	8	1	11	5	-	-	105	-	6	9	-	5
434+69.5 to 436+44.5 (TAPER)	175	428	244	-	36	6	44	21	-	-	122	-	7	36	-	13
436+44.5 to 496+76.72	6032	14745	-	-	1206	201	1508	737	-	29	14745	-	826	1,239	-	763
496+76.72 to 498+51.72 (TAPER)	175	428	244	-	36	6	44	21	-	-	122	-	7	36	-	13
498+51.72 to 499+92.38 (053-3447)	140.7	469	141	469	28	5	35	23	-	-	-	469	26	39	-	-
499+92.38 to 500+28. End	36	87	175	-	8	1	9	4	-	-	-	-	-	7	-	-
Sta. Eqs. And 053-3033 Omission	-169.64	-415	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL JOB LENGTH OR MAINLINE QUANTITY	49825.36	121795	2447	469	9970	1661	12456	6092	-	235	118978	469	6690	10242	-	6209
MISCELLANEOUS																
PRIVATE & COMMERCIAL ENTRANCES (29)	-	-	-	-	-	-	-	-	245.0	-	-	-	33	52	182.0	-
SIDEROAD INTERSECTIONS (16)	-	-	-	-	-	-	-	144.0	-	-	-	-	64	64	240.0	-
M.B.T.O.'s (16)	-	-	-	-	-	-	-	-	-	-	-	-	14	22	-	-
TOTALS OF MAINLINE & MISC.	49,825	121,795	2,447	469	9,970	1,661	12,456	6,236	245	235	118,978	469	6,801	10,380	422	6,209

CLASS "D" PATCH, TYPE IV, 6 INCH IS LOCATED AT STATION 481+71 OVER A CULVERT REPLACEMENT DONE BY OTHERS. APPROX. DIMENSIONS = 22' X 45'.

* BITUMINOUS MATERIALS (PRIME COAT) SHALL BE IN ACCORDANCE WITH THE TABLE SHOWN IN ARTICLE 406.02 OF THE STANDARD SPECIFICATIONS.

Z:\COW\ROAD Projects\00198RS3-Flanagan-Long\PT\Planning\Est\Cost-Resurf\Sched-Flan\Long\Plat\SchedResurfChys