

INDEX OF SHEETS 03-08-2019 LETTING ITEM 156

1. COVER SHEET, STANDARDS, & SUMMARY OF QUANTITIES
2. TYPICAL CROSS-SECTIONS & EXISTING CURVE DATA
3. INTERSECTION DETAILS
4. ENTRANCE, MAILBOX TURNOUT & MISC. DETAILS
5. STRUCTURE AND RAILROAD OMISSION DETAILS
6. SCHEDULE OF RESURFACING QUANTITIES

HIGHWAY STANDARDS

- 701301-04 LANE CLOSURE 2L, 2W SHORT TIME OPERATIONS
- 701306-04 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	QUANTITIES
40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	3,343.0
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	31,897.0
* 40600627	LEVELING BINDER (MACHINE METHOD), IL-9.5FG, N50	TON	3,883.0
40603310	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	TON	4,021.0
40800050	INCIDENTAL HOT-MIX ASPHALT SURFACING	TON	182.0
44000160	HOT-MIX ASPHALT SURFACE REMOVAL, 2 3/4"	SQ YD	244.0
48102100	AGGREGATE WEDGE SHOULDER, TYPE B	TON	2,818.0
67100100	MOBILIZATION	L SUM	1.0
70300100	SHORT TERM PAVEMENT MARKING	FOOT	3,774.0
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	633.0
Δ 78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	122.4
Δ 78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	66.0
Δ 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	10,362.0
* X4401198	HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH	SQ YD	597.0
* X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1.0
* Z0034105	MATERIAL TRANSFER DEVICE	TON	4,021.0
* Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM	1.0
* Z0055300	RUMBLE STRIP	EACH	8.0

* SEE SPECIAL PROVISIONS

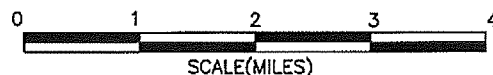
Δ SPECIALTY ITEMS

THIS PROJECT CONSISTS OF HMA OVERLAY WITH HMA LEVELING BINDER, HMA SURFACE COURSE, MIX "C", N50, AND AGGREGATE SHOULDERS BEGINNING AT A POINT NEAR THE INTERSECTION OF LONG POINT SPUR (2640N) AND COUNTY HIGHWAY 16 (300E) AND EXTENDING IN A NORTHERLY DIRECTION A POINT NEAR THE INTERSECTION OF COUNTY HIGHWAY 16 AND IL RT 17 NORTH OF ANCONA, IL.

TRAFFIC DATA
 C.H. 16 - COLLECTOR
 POSTED SPEED = 55 MPH-RURAL
 DESIGN SPEED = 60 MPH-RURAL
 DESIGN ADT= 750/ YR 2027
 CLASS III ROADS, 80,000#

UTILITIES

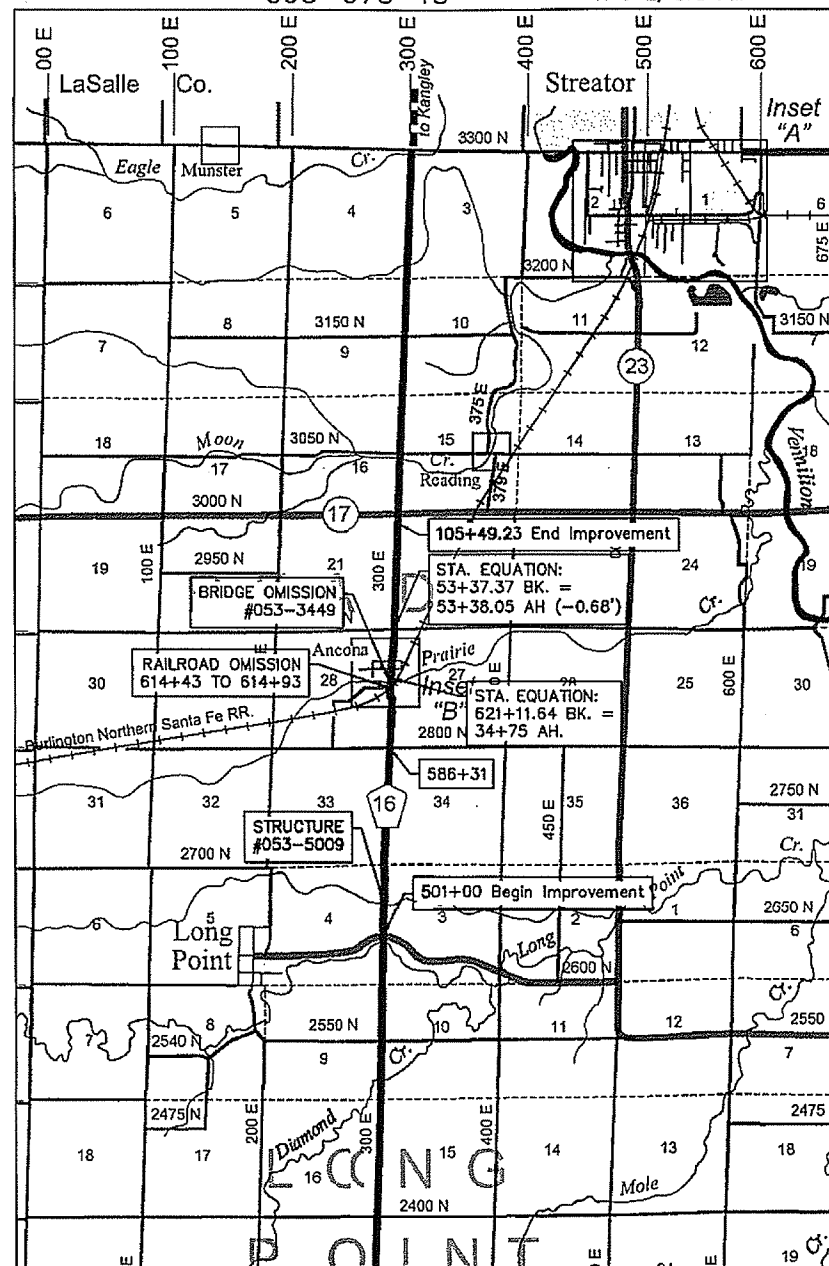
CONTACT J.U.L.I.E. 811 or
 800-892-0123 BEFORE DIGGING



CONTRACT NO. 87622

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

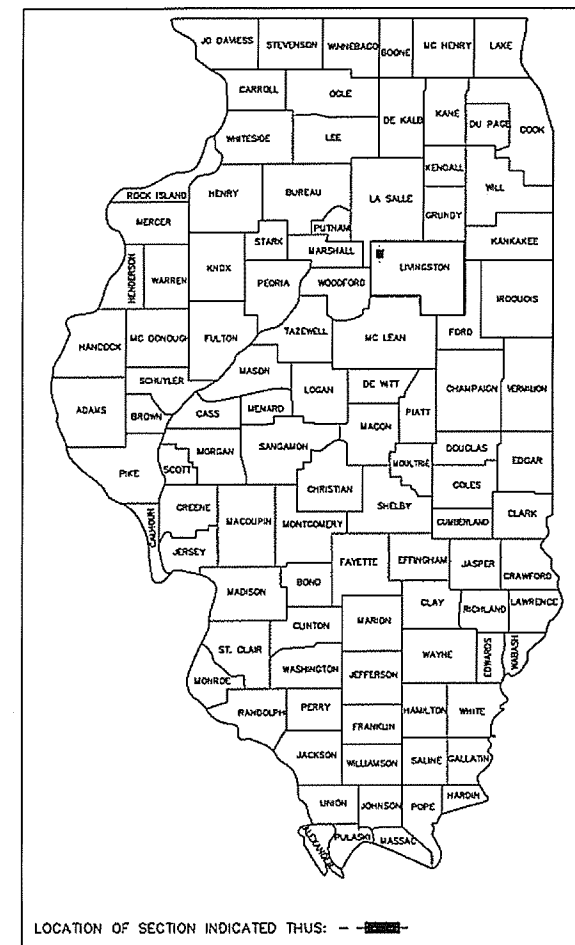
F.A.S. ROUTE 355, CH 16, (ANCONA RD)
 SECTION 12-00062-02-RS
 PROJECT AS8E(832)
 LIVINGSTON COUNTY
 C93-075-15 R 3 E, 3rd PM



GROSS LENGTH = 19,085' = 3.61 MILES
 NET LENGTH 18,957' = 3.59 MILES

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
355	12-00062-02-RS	LIVINGSTON	6	1

PROJECT NO. AS8E(832)

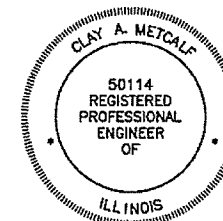


THESE PLANS WERE MADE BY ME OR BY A MEMBER OF MY STAFF WORKING UNDER MY PERSONAL SUPERVISION.

12/17/18 DATE
 Clay Metcalf COUNTY ENGINEER, P.E./NO. 50114
 EXPIRATION DATE 11/30/2019

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

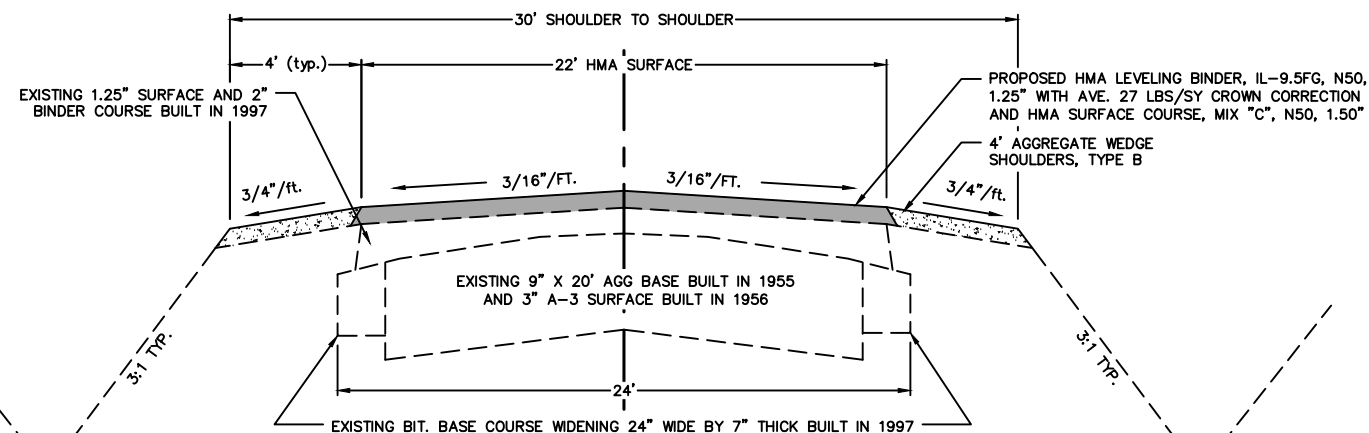
APPROVED 12/17/2018
 Clay Metcalf LIVINGSTON COUNTY OFFICIAL
 PASSED 1/3/2019
 David B. [Signature] DISTRICT THREE LOCAL ROADS & STREETS ENGINEER
 RELEASING FOR BID BASED ON LIMITED REVIEW 1/3/2019
 [Signature] REGION TWO ENGINEER
 STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION



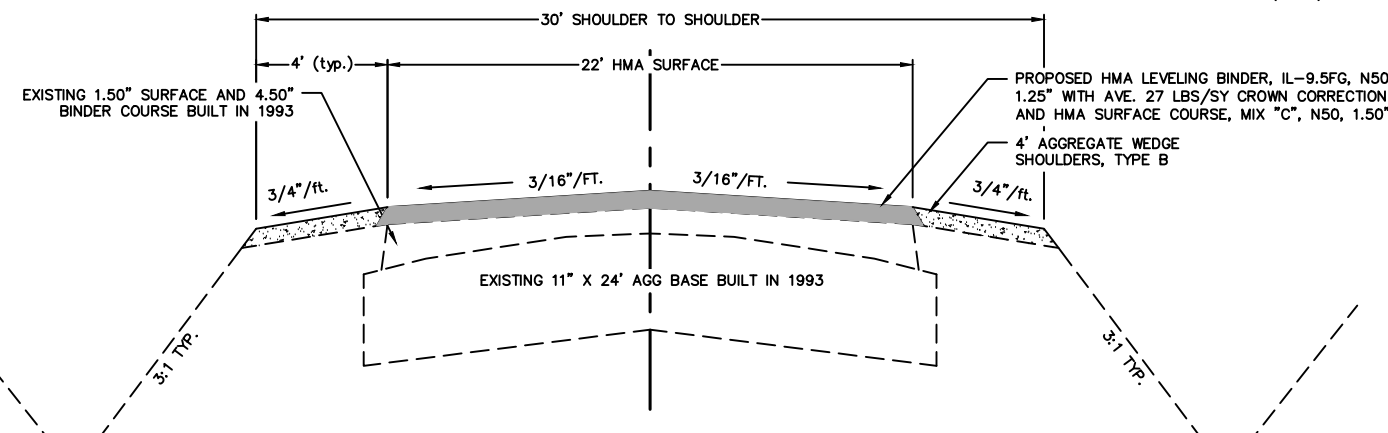
NOT PLOTTED TO SCALE

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355	12-00062-02-RS	LIVINGSTON	6	2

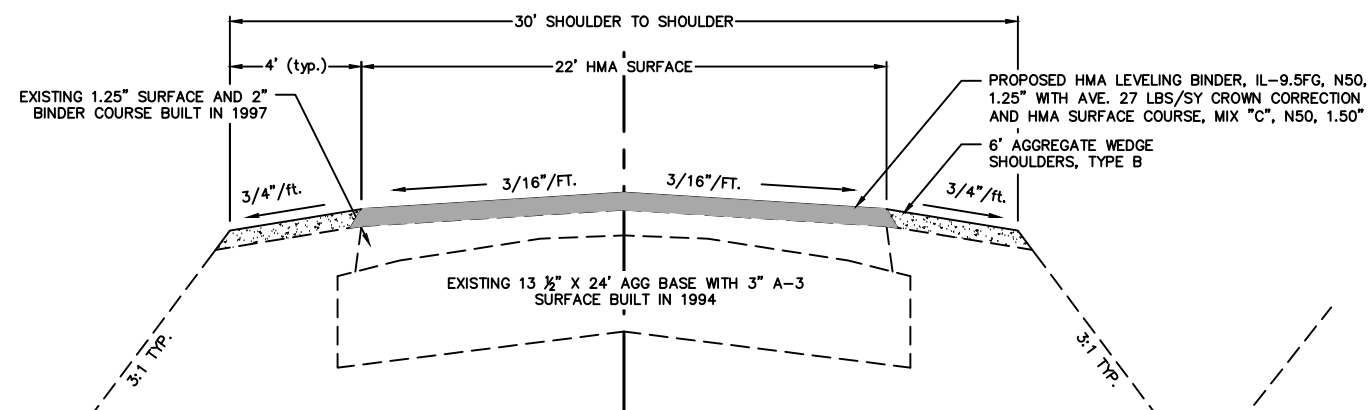
PROJECT NO. AS8E(832)



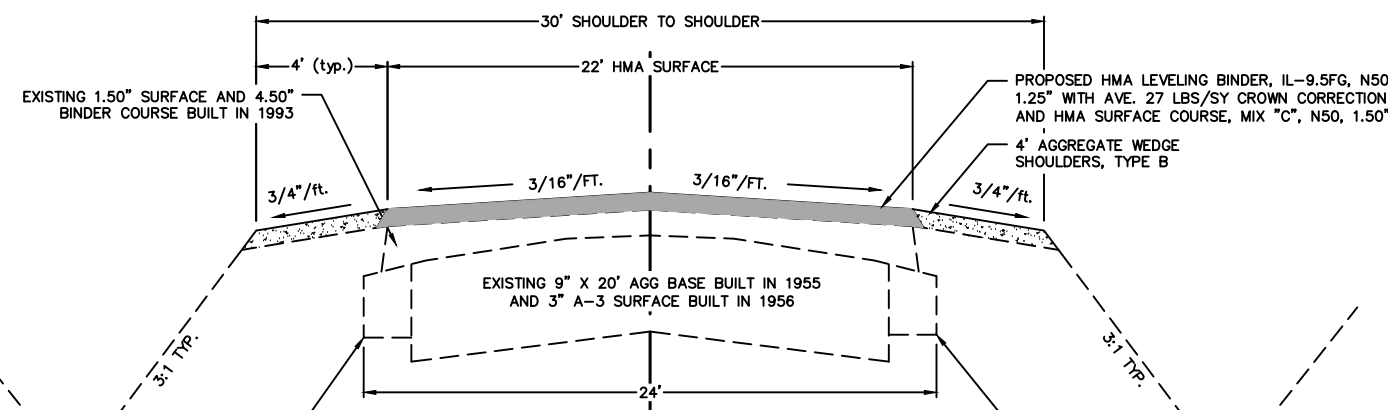
TYPICAL CROSS SECTION (NTS)
STA 501+00.00 TO STA. 603+05.59



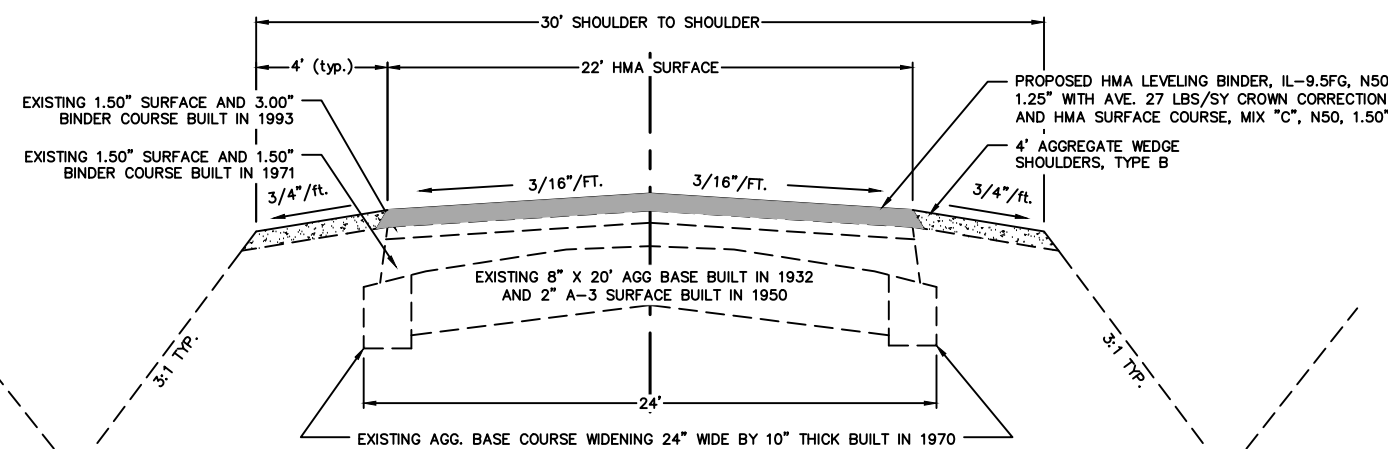
TYPICAL CROSS SECTION (NTS)
STA. 34+75 TO STA. 41+50



TYPICAL CROSS SECTION (NTS)
STA 603+05.59 TO STA. 621+11.64



TYPICAL CROSS SECTION (NTS)
STA 41+50 TO STA. 54+37



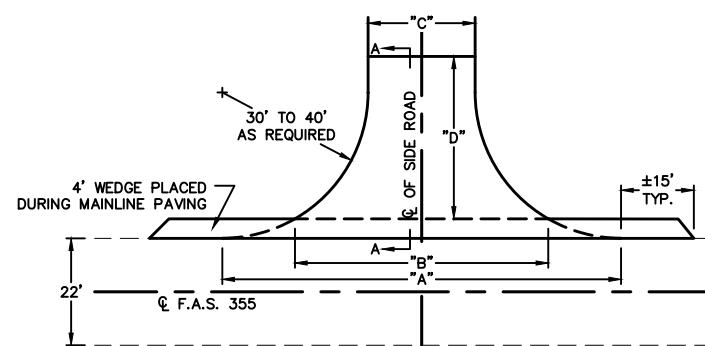
TYPICAL CROSS SECTION (NTS)
STA 54+37 TO STA. 105+49.23

<p>Curve #1 Data</p> <p>P.I. Sta. 529+85.00</p> <p>Δ 02°59'17"</p> <p>R(existing) 9108.17</p> <p>T 237.55'</p> <p>L 475'</p> <p>E 3.10'</p> <p>e 2.5%</p> <p>T.R. 38'</p> <p>S.E. Run 61'</p> <p>P.C. Sta. 527+47.55</p> <p>P.T. Sta. 532+22.55</p>	<p>Curve #2 Data</p> <p>P.I. Sta. 535+87.71</p> <p>Δ 03°33'02"</p> <p>R(existing) 6454.84'</p> <p>T 200.06'</p> <p>L 400'</p> <p>E 3.10'</p> <p>e 2.5%</p> <p>T.R. 38'</p> <p>S.E. Run 61'</p> <p>P.C. Sta. 533+87.65</p> <p>P.T. Sta. 537+87.65</p>	<p>Curve #3 Data</p> <p>P.I. Sta. 605+65.91</p> <p>Δ 11°09'03"</p> <p>R(existing) 1637.02'</p> <p>T 159.80'</p> <p>L 318.59'</p> <p>E 7.78'</p> <p>e 5.75%</p> <p>T.R. 32'</p> <p>S.E. Run 117'</p> <p>P.C. Sta. 604+06.11</p> <p>P.T. Sta. 607+24.70</p>
<p>Curve #4 Data</p> <p>P.I. Sta. 610+88.22</p> <p>Δ 12°39'18"</p> <p>R(existing) 1432.40'</p> <p>T 158.83'</p> <p>L 316.38'</p> <p>E 8.78'</p> <p>e 6.25%</p> <p>T.R. 30'</p> <p>S.E. Run 118'</p> <p>P.C. Sta. 609+29.09</p> <p>P.T. Sta. 612+45.47</p>	<p>Curve #5 Data</p> <p>P.I. Sta. 39+04</p> <p>Δ 09°05'39"</p> <p>R(existing) 700.84'</p> <p>T 55.74'</p> <p>L 111.24'</p> <p>E 2.21'</p> <p>e 6.0%</p> <p>T.R. 26'</p> <p>S.E. Run 99'</p> <p>P.C. Sta. 38+48.26</p> <p>P.T. Sta. 39+59.50</p>	<p>Curve #6 Data</p> <p>P.I. Sta. 41+85.64</p> <p>Δ 09°56'44"</p> <p>R(existing) 623.28'</p> <p>T 54.23'</p> <p>L 108.19'</p> <p>E 2.35'</p> <p>e 6.0%</p> <p>T.R. 26'</p> <p>S.E. Run 99'</p> <p>P.C. Sta. 41+31.41</p> <p>P.T. Sta. 42+39.60</p>

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
355	12-00062-02-RS	LIVINGSTON	6	3

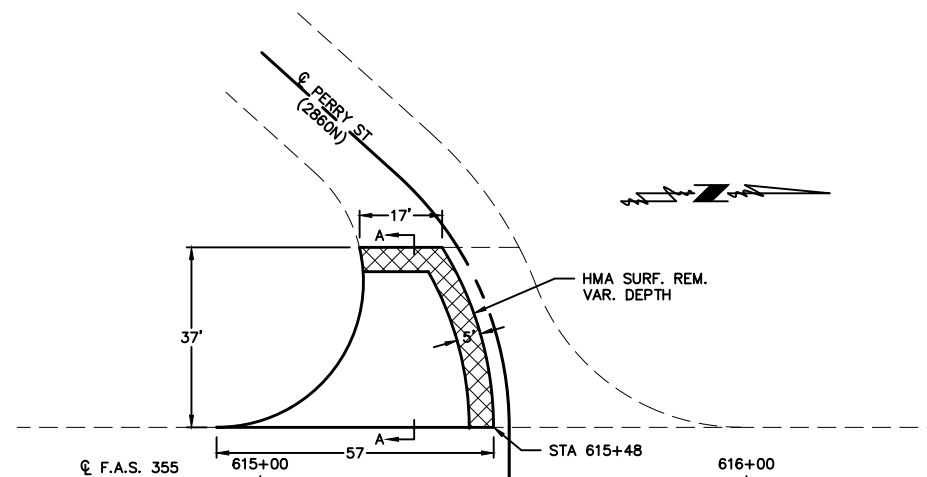
PROJECT NO. AS8E(832)

NOT PLOTTED TO SCALE

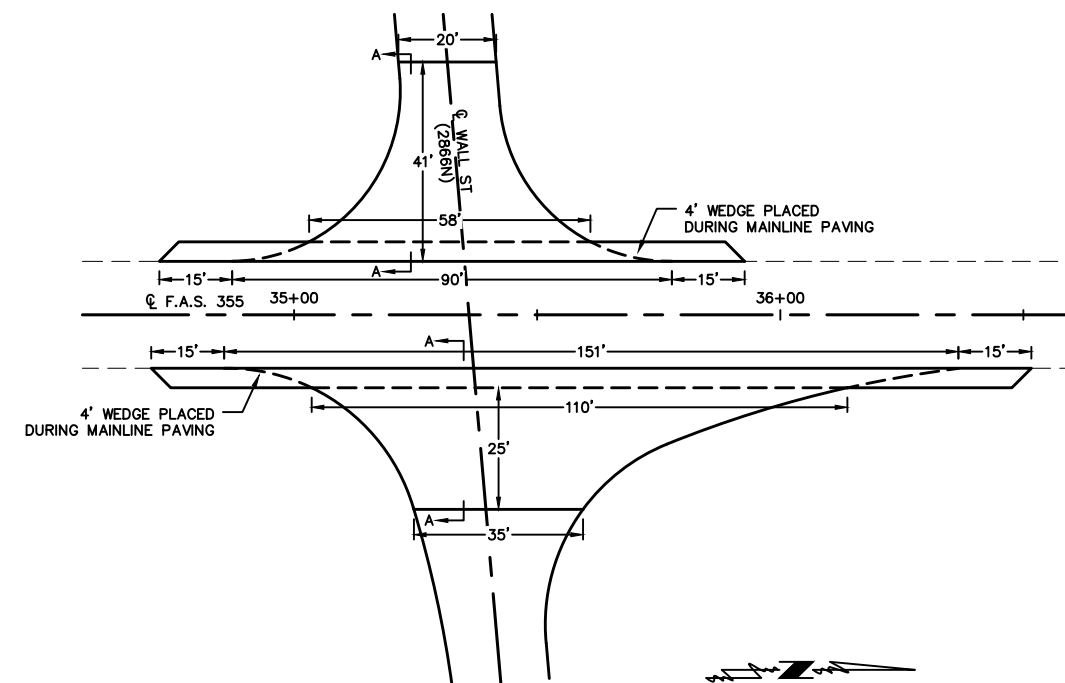


TYPICAL SIDE ROAD INTERSECTION (NTS)

STA. 586+31 LT. & RT. (2800N)
 STA. 53+37 LT. & RT. (2900N)

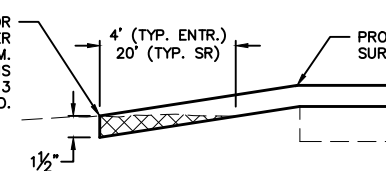


2860N RD (NTS)
 PERRY ST.

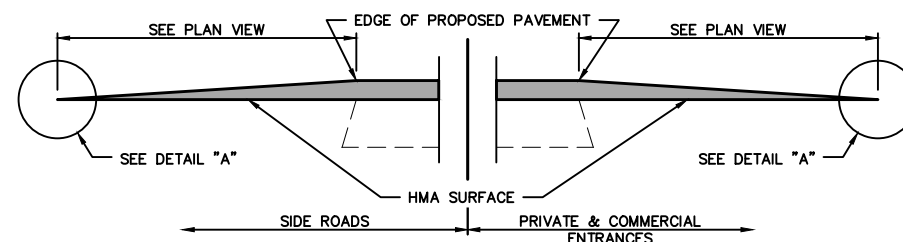


2866N RD (NTS)
 WALL ST.

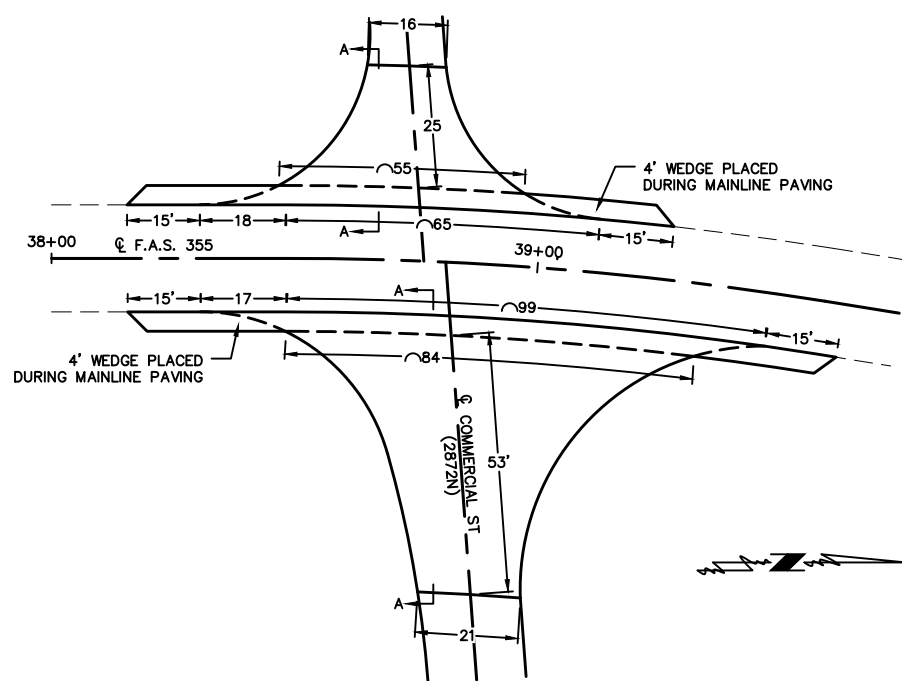
THE COST OF REMOVAL AT EXISTING HMA OR PCC LOCATIONS SHALL BE PAID FOR PER SQ YD BY THE APPROPRIATE PAY ITEM. REMOVAL AT THE EXISTING AGG LOCATIONS SHALL BE INCIDENTAL TO THE HMA. A-3 LOCATIONS SHALL BE FEATHER TAPERED.



DETAIL A



SECTION A-A
 DETAILS AT ENTRANCES & SIDE ROADS



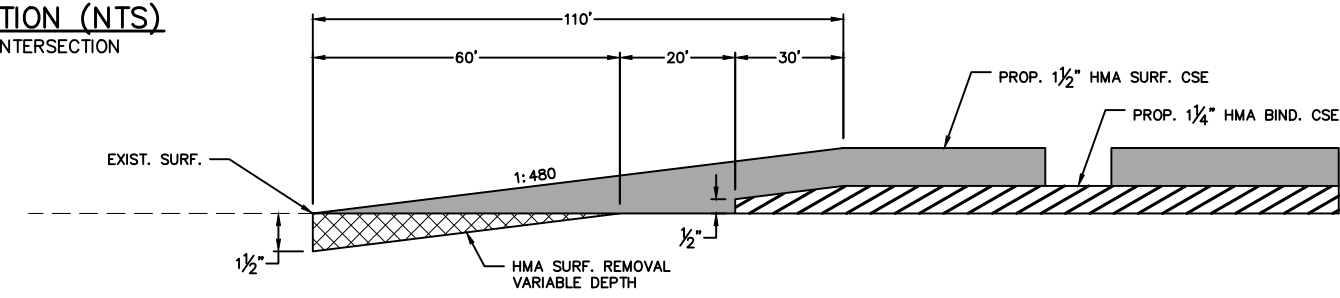
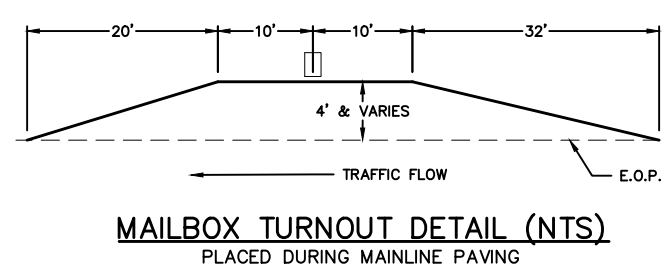
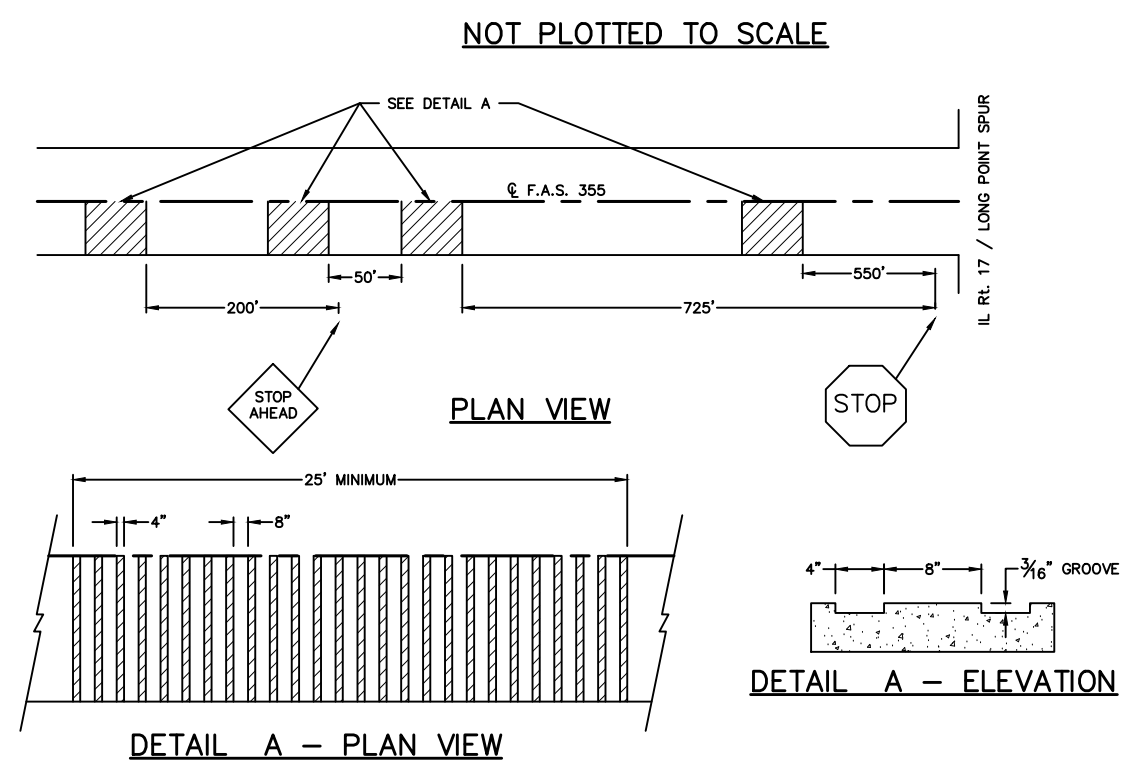
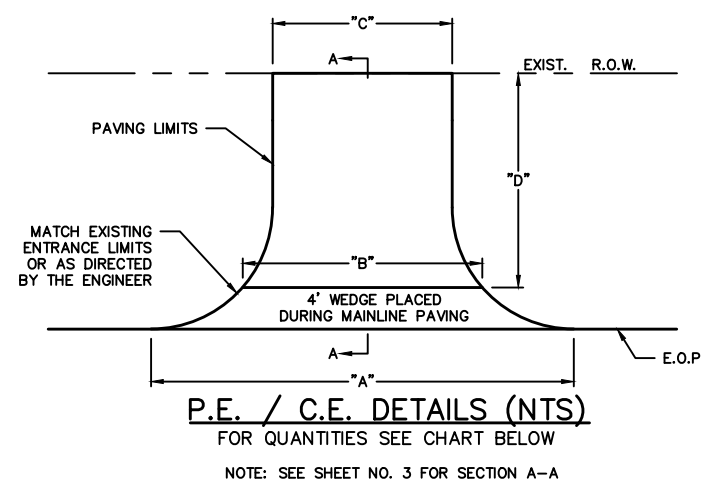
2872N RD (NTS)
 COMMERCIAL ST.

ANCONA RD / CH 16 - INTERSECTION QUANTITIES									
LOCATION	A(Ft.)	B(Ft.)	C(Ft.)	D(Ft.)	AREA (S.Y.)	BIT. MAT. (TACK COAT) (LB)	LEVEL BINDER	SURFACE COURSE	INCID. BIT.
2800N(L)	72	60	27	18	80	56	3	4	9
2800N(R)	70	57	20	27	102	65	3	4	11
2860N(PERRY) (L)	57	-	17	37	118	53	-	-	13
2866N(WALL) (L)	90	58	20	37	120	77	4	4	13
2866N(WALL) (R)	151	110	35	25	172	113	6	7	19
2872N(COMMERCIAL) (L)	83	55	16	25	76	56	3	4	9
2872N(COMMERCIAL) (R)	116	84	21	53	229	131	4	5	26
2900N(L)	82	65	21	40	142	86	3	4	16
2900N(R)	77	63	23	28	110	70	3	4	12
TOTALS						707	23	28	100

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
355	12-00062-02-RS	LIVINGSTON	6	4

PROJECT NO. AS8E(8.32)

	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 9.5FG	IL 9.5	IL 9.5
Friction Aggregate	N/A	Mixture C	Mixture C
Density Test Method	LR1030	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
Location(s)	N/A	N/A	N/A



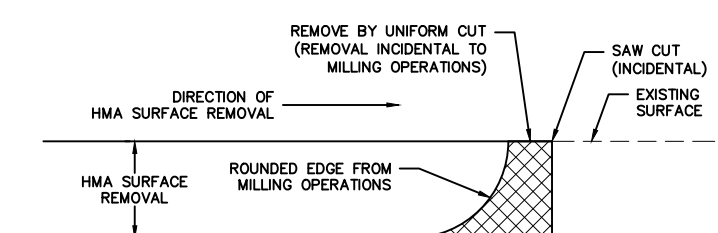
ANCONA RD / CH 16 - ENTRANCE QUANTITIES											
TYPE	STATION	A(Ft.)	B(Ft.)	C(Ft.)	D(Ft.)	AREA (S.Y.)	BIT. MAT. (TACK COAT) (LB)	BIT. MAT. (PRIME COAT) (LB)	LEVEL BINDER	SURFACE COURSE	INCID. BIT.
PE	533+35(R)*	41	37	12	18	49	6	170	2	3	6
PE	536+30(L)	44	36	29	4	14	4	75	2	2	3
PE	536+75(L)	37	28	12	18	40	3	125	2	2	5
PE	593+76(L)	36	25	12	18	37	3	114	1	2	5
PE	594+70(L)	26	20	11	18	31	2	93	1	1	4
PE	36+31(L)	26	15	9	18	24	2	75	1	1	3
PE	37+13(L)	28	17	9	18	26	2	81	1	1	3
CE	37+13(R)	34	22	10	18	32	3	100	1	2	4
PE	40+02(R)	28	18	15	18	33	2	97	1	1	4
PE	41+87(L)*	31	27	11	18	38	8	162	3	3	5
PE	43+18(L)*	34	28	15	18	43	8	175	3	3	5
PE	45+55(R)	34	26	16	18	42	3	125	1	2	5
PE	74+78(L)	42	33	15	18	48	4	146	2	2	6
PE	76+60(L)	50	41	18	18	59	5	178	2	2	7
PE	79+31(L)	29	22	13	18	35	3	104	1	1	4
CE	104+42(L)	82	67	44	18	111	7	324	3	3	13
MBTO	4 Total						5	46	2	2	
TOTALS							70	1,613	29	33	82

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

SCHEDULE OF PAINT PAVEMENT MARK 4"			
LOCATION	NO PASSING ZONE	SKIP DASH	
STATION TO STATION	NBL	SBL	CL
501+00 to 597+15			2,404
597+15 to 606+45	930		233
606+45 to 621+12	1,467	1,467	*
34+75 to 42+23	748	748	*
42+23 to 49+78		755	189
49+78 to 106+60			1,421
TOTALS	3,145	2,970	4,247
TOTAL PAY QUANTITY 10,362 FOOT			

THERMOPLASTIC PAVEMENT MARKINGS			
LOCATION	LETTERS & SYMBOLS	LINE - 24"	
STATION TO STATION	X (20')	R (6')	
611+10 RR X-ING SYMBOL	54.00	7.20	22
614+30 RR X-ING STOP			11
615+00 RR X-ING STOP			11
618+10 RR X-ING SYMBOL	54.00	7.20	22
TOTALS	108.00	14.40	66.00
TOTAL PAY QTY. LETTERS & SYMBOLS			122.40 SQ FT
TOTAL PAY QTY. LINE - 24"			66.00 FOOT

BEGINNING & END OF IMPROVEMENTS (NTS)
STA 501+00 TO STA. 105+49.23



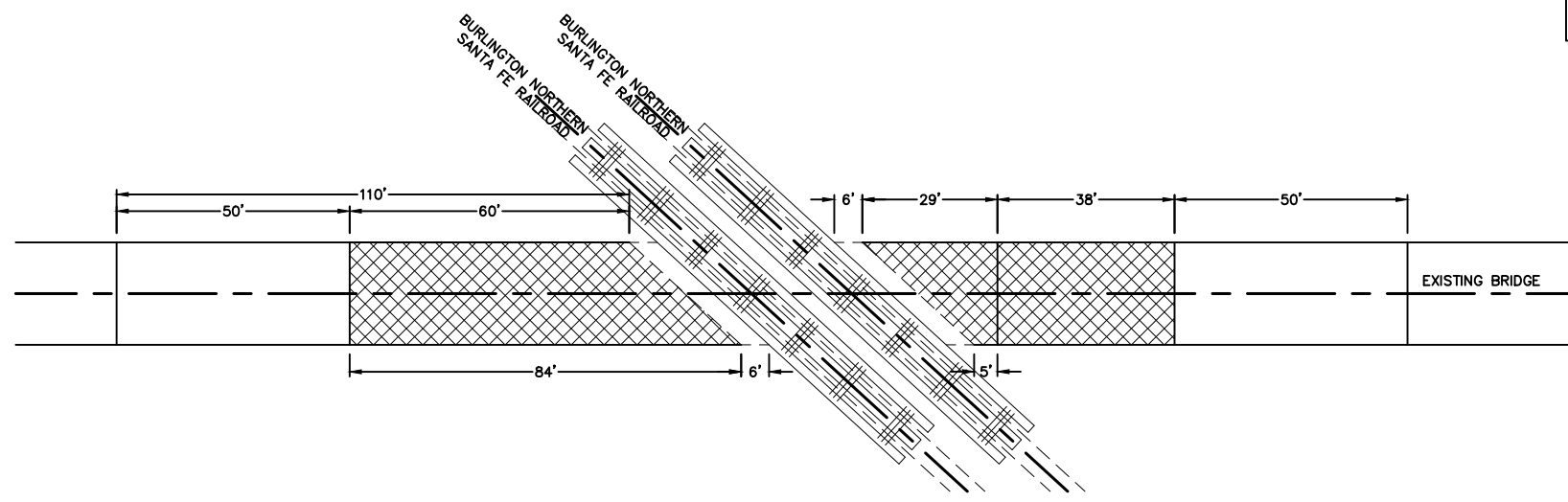
NOTE: WHEN MILLING OPERATIONS PRODUCE A ROUNDED EDGE, THEN A SAW CUT SHALL BE USED TO MANUFACTURE A PERPENDICULAR EDGE AS SHOWN IN THE DETAIL. THE ENGINEER SHALL BE THE SOLE JUDGE CONCERNING THE USE OF THIS DETAIL.

HMA DETAIL AT BUTT JOINTS

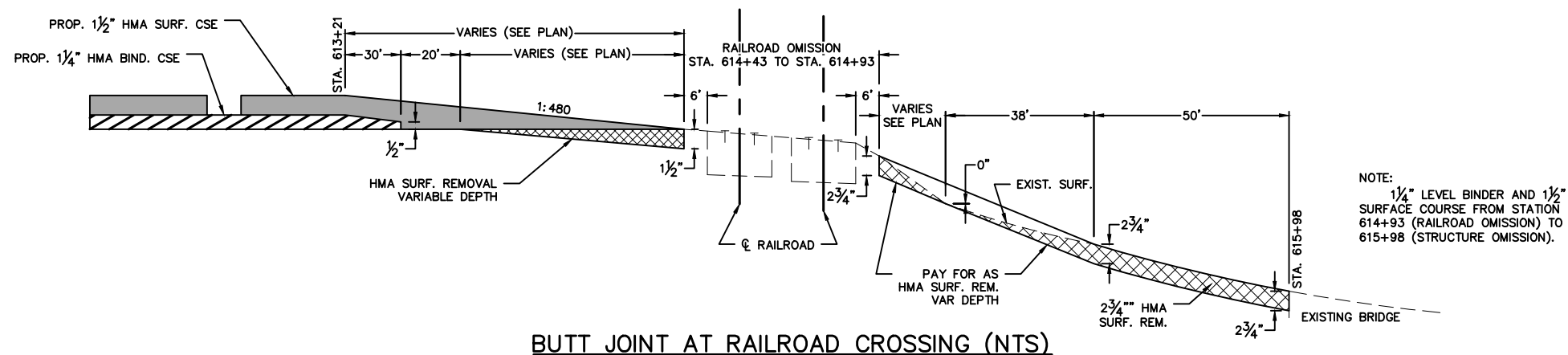
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
355	12-00062-02-RS	LIVINGSTON	6	5

PROJECT NO. AS8E(832)

NOT PLOTTED TO SCALE

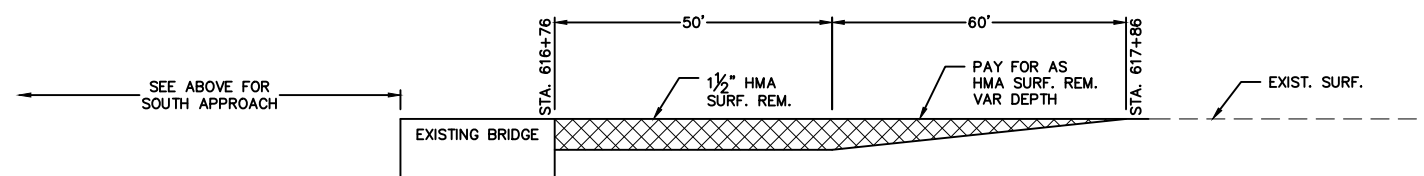


PLAN AT RAILROAD CROSSING (NTS)

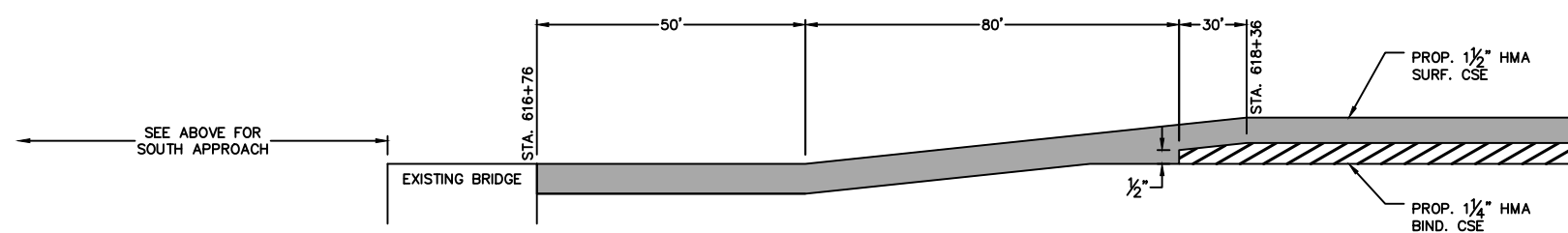


NOTE:
1/4" LEVEL BINDER AND 1/2" SURFACE COURSE FROM STATION 614+93 (RAILROAD OMISSION) TO 615+98 (STRUCTURE OMISSION).

BUTT JOINT AT RAILROAD CROSSING (NTS)



STRUCTURE BUTT JOINT MILLING (NTS)



STRUCTURE BUTT JOINT RESURFACING (NTS)

SCHEDULE OF RESURFACING QUANTITIES													
LOCATION (QUANTITY)	LENGTH	AREA (SQ YD)	HMA SURF REMOVAL VAR DEPTH (SQ YD)	SHORT- TERM PAVT MARKING (FOOT)	SHORT-TERM PAVT MARKING REMOVAL (SQ FT)	PAINT PVT MARKING LINE, 4" (FOOT)	BIT MATLS TACK CT (POUND)	BIT MATLS PR CT (POUND)	HMA SURF REMOVAL 2.75" DEPTH (SQ YD)	Unit weight Constant = 112.0 lbs./sq. ft.			AGG WEDGE SHOULDERS TYPE B (TON)
										LEVEL BINDER IL-9.5FG N50 (TON)	HMA SURF CSE "C" N50 (TON)	INCIDENTAL BIT SURF (TON)	
501+00. to <u>MAINLINE</u> 501+60. (TAPER)	60	147	147	(2 Apps.) 12	(1 App.) 2		66	-	-	-	12	-	3
501+60. to 501+80. (TAPER)	20	49	-	4	1		22	-	-	-	5	-	2
501+80. to 502+10. (TAPER)	30	73	-	6	1		49	-	-	4	6	-	4
502+10. to 527+47.	2537	6202	-	508	85		4,186	-	-	518	521	-	401
527+47. to 532+22. (EXTRA WIDTH)	475	1372	-	96	16		831	475	-	112	115	-	42
532+22. to 533+88.	166	406	-	34	6		274	-	-	34	34	-	26
533+88. to 537+88. (EXTRA WIDTH)	400	1156	-	80	13		700	400	-	94	97	-	35
537+88. to 604+06.	6618	16177	-	1324	221		10,919	-	-	1,350	1,359	-	1045
604+06. to 607+25. (EXTRA WIDTH)	319	922	-	64	11		559	319	-	75	77	-	28
607+25. to 609+29.	204	499	-	40	7		337	-	-	42	42	-	28
609+29. to 612+45. (EXTRA WIDTH)	316	913	-	64	11		553	316	-	74	77	-	28
612+45. to 613+21.	76	186	-	16	3		126	-	-	16	16	-	12
613+21. to 613+51. (TAPER)	30	73	-	6	1		49	-	-	4	6	-	4
613+51. to 613+71. (TAPER)	20	49	-	4	1		22	-	-	-	5	-	2
613+71. to 614+43. (TAPER)	72	176	72	14	2		79	-	-	-	15	-	4
RAILROAD OMISSION	50	-	-	-	-		-	-	-	-	-	-	-
614+93. to 615+10.	17	42	17				19	-	-	3	4	-	2
615+10. to 615+48.	38	93	38				42	-	-	7	8	-	5
615+48. to 615+98.	50	122	-				55	-	122	9	10	-	-
STRUCTURE OMISSION (053-3449)	78	-	-	-	-		-	-	-	-	-	-	-
616+76. to 617+26.	50	122	-	10	2		55	-	122	-	10	-	-
617+26. to 617+86. (TAPER)	60	147	147	12	2		66	-	-	-	12	-	3
617+86. to 618+06. (TAPER)	20	49	-	4	1		22	-	-	-	5	-	2
618+06. to 618+36. (TAPER)	30	73	-	6	1		49	-	-	4	6	-	4
618+36. to 621+12.	276	675	-	56	9		456	-	-	56	57	-	44
34+75. to 38+48.	373	912	-	74	12		616	-	-	76	77	-	59
38+48. to 39+59. (EXTRA WIDTH)	111	321	-	22	4		194	111	-	26	27	-	10
39+59. to 41+31.	172	420	-	34	6		284	-	-	35	35	-	27
41+31. to 42+40. (EXTRA WIDTH)	109	315	-	22	4		191	109	-	26	26	-	10
42+40. to 104+39. *	6198	15151	-	1240	207		10,227	-	-	1,264	1,273	-	979
104+39. to 104+69. (TAPER)	30	73	-	6	1		49	-	-	4	6	-	4
104+69. to 104+89. (TAPER)	20	49	-	4	1		22	-	-	-	5	-	2
104+89. to 105+49. (TAPER)	60	147	147	12	2		0	-	-	-	12	-	3
TOTAL JOB LENGTH OR MAINLINE QUANTITY	19085	47111	568	3774	633	0	31120	1730	244	3831	3960	0	2818
<u>MISCELLANEOUS</u>													
PRIVATE & COMMERCIAL ENTRANCES (16)	-	-	-	-	-	-	65	1567	-	27	31	82	-
SIDEROAD INTERSECTIONS (9)	-	-	29	-	-	-	707	-	-	23	28	100	-
M.B.T.O.'s (4)	-	-	-	-	-	-	5	46	-	2	2	-	-
TOTALS OF MAINLINE & MISC.	19,085	47,111	597	3,774	633	0	31,897	3,343	244	3,883	4,021	182	2,818

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
355	12-00062-02-RS	LIVINGSTON	6	6

PROJECT NO. AS8E(832)

SCHEDULE ON SHEET 4

* station equation lengths in this area have been accounted for in Length and Area calculations.