

04-23-2021 LETTING ITEM 091

INDEX OF SHEETS

Sheet No.	Description
1	COVER SHEET
2	TYPICAL CROSS SECTION AND DETAILS
3	DETAILS & SCHEDULES

STANDARDS

701306-04	LANE CLOSURE, 2L, 2W, SLOW MOVING OP. DAY ONLY >45 MPH
701901-08	TRAFFIC CONTROL DEVICES
000001-08	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS

SUMMARY OF QUANTITIES

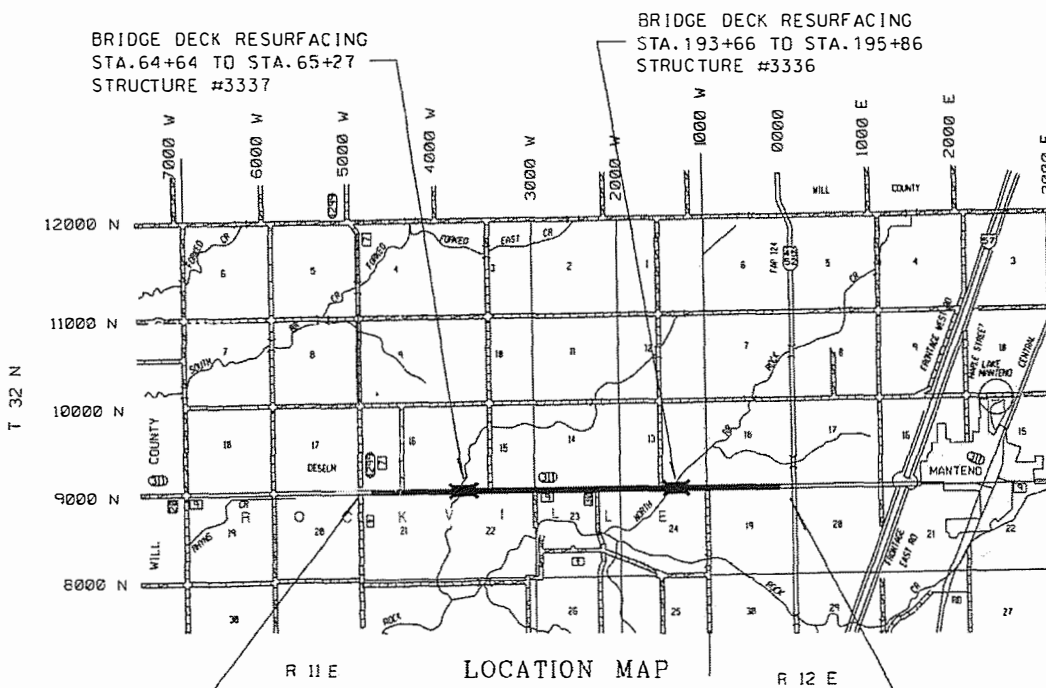
* 40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	464 SQYD
40600990	TEMPORARY RAMP	103 SQYD
* 40602965	HOT-MIX ASPHALT BINDER COURSE, IL-9.5FG, N50	4756 TON
* 40804050	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N50	5751 TON
* 40800029	BITUMINOUS MATERIALS (TACK COAT)	45784 POUND
40800050	INCIDENTAL HOT-MIX ASPHALT SURFACING	469 TON
* 44000155	HOT-MIX ASPHALT SURFACE REMOVAL, 1 1/2"	1539 SQYD
* 44201771	CLASS D PATCHES, TYPE IV, 10 INCH	330 SQYD
48101200	AGGREGATE SHOULDERS, TYPE B	4675 TON
67100100	MOBILIZATION	1 L SUM
70100460	TRAFFIC CONTROL AND PROTECTION, STANDARD 701306	1 L SUM
70300100	SHORT TERM PAVEMENT MARKING	7890 FOOT
X4401198	HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH	437 SQYD
* 20033700	LONGITUDINAL JOINT SEALANT	26975 FOOT
* 20034105	MATERIAL TRANSFER DEVICE	10507 TON

Construction Code 0005
 * Special Provisions
 Δ Specialty Item

CONTRACT NO. 87757

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

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 COUNTY OF KANKAKEE
 DEPARTMENT OF HIGHWAYS
 PLANS FOR PROPOSED
 FEDERAL AID SECONDARY PROJECT
 SECTION 17-00185-03-RS
 F.A.S. 311 (C.H.9) PROJECT MCET (191)
 JOB NO. C-93-024-21



STA. 0+46
 CONSTRUCTION STARTS
 (STA. 0+00 = C FAS 1299 C.H. 7)

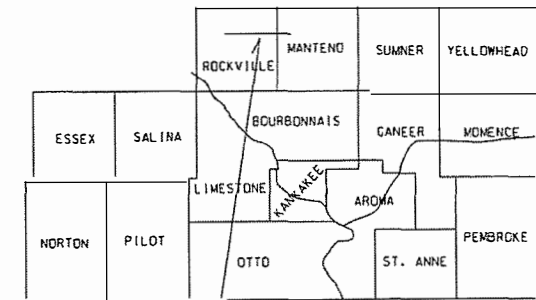
STA. 264+59
 CONSTRUCTION ENDS
 (STA. 265+65 = C US RT 45&52)

GROSS LENGTH = 26413 LIN FT = 5.002 MILES

F. A. S. ROUTE NO.	SEC.	COUNTY	NO. SHEETS	SHEET NO.
311	*	Kankakee	3	1
ILLINOIS PROJECT MCET(191)			CONTRACT NO. 87757	

* 17-00185-03-RS

KANKAKEE COUNTY



PROJECT LOCATION



THE ACCEPTANCE OF THIS PROJECT IS BASED ON THE MINIMUM DESIGN CRITERIA FOR LOCAL AGENCY PAVEMENT PRESERVATION POLICY (LAPP) PROJECTS

CLASS II ROAD
 2020 CURRENT A.D.T. = 3267
 2028 DESIGN A.D.T. = 3594
 DESIGN SPEED = 55 M.P.H.
 ROADWAY CLASSIFICATION = COLLECTOR

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS

Submitted Jan 15 2021

Mark Rogers
 Mark Rogers, P.E.
 County Engineer

Passed FEBRUARY 18, 2021

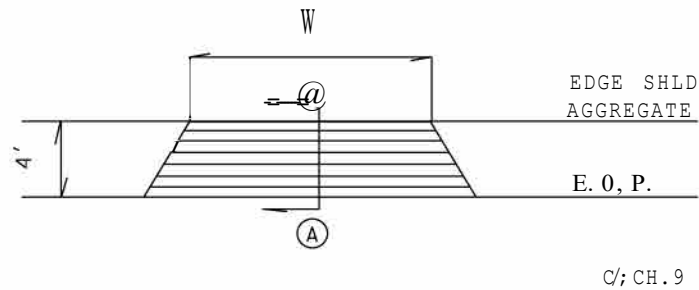
Steve Chery
 Steve Chery P.E.
 Bureau Chief, Local Roads & Streets

Approved FEBRUARY 18, 2021

Masood Ahmed
 Masood Ahmed, P.E.
 Region 2 Engineer

TYPICAL ENTRANCE DETAIL

w: WIDTH OF APPROACH PADS IS ESTIMATED AT 20' PER ENTRANCE, THE ACTUAL CONSTRUCTED WIDTH MAY VARY AS DIRECTED BY THE ENGINEER TO FIT THE EXISTING ENTRANCES. FIELD ENTRANCES SHALL NOT RECEIVE BIT. CONCRETE SURFACING



C/; CH. 9

SECTION A-A

ESTIMATED QUANTITIES - 50 ENTRANCES		
ITEM	UNIT	QUANTITY
BITUMINOUS MATERIALS I PRIME COAT 1	Pound	306
HMA SURFACE CSE MIX C, N50	TON	153

Quantities are included in Incidental HMA Totals. Paving will be machine method approved by Engineer. No f screed pover method will not be allowed.

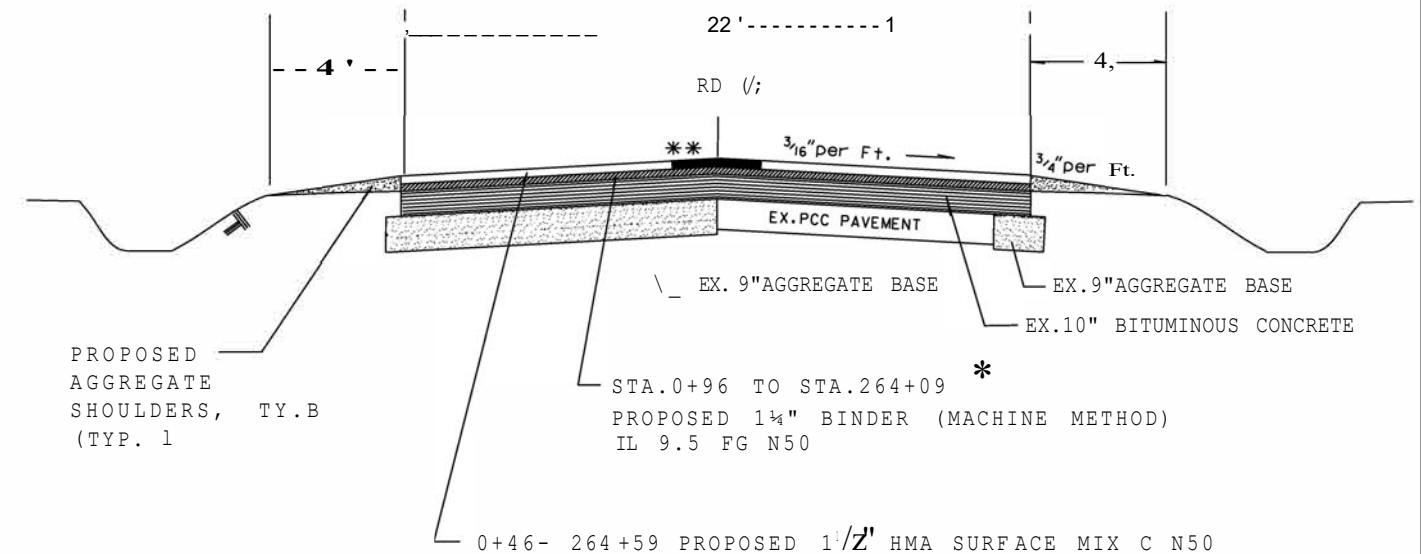
? PROPOSED HMA SURFACE CSE.

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
17-00185-03-RS	KANKAKEE	3	2

CONTRACT NO. 87757

TYPICAL CROSS SECTION

STA. 0+46 TO STA. 263+53



PROPOSED AGGREGATE SHOULDERS, TY. B (TYP. 1)

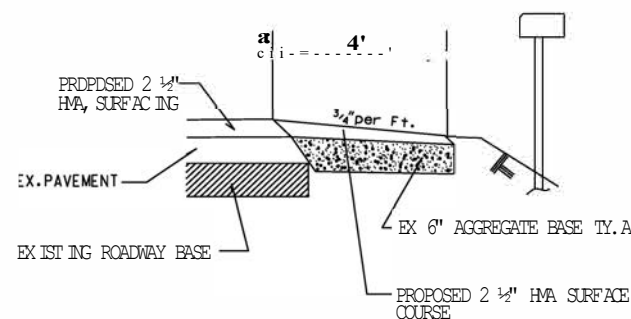
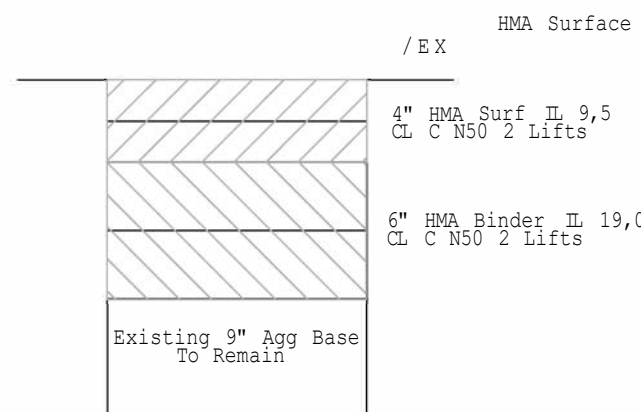
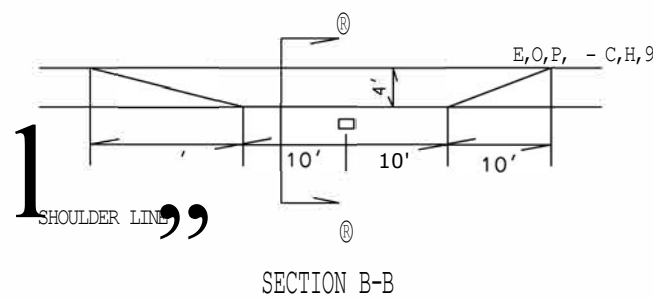
STA. 0+96 TO STA. 264+09 * PROPOSED 1 1/4\"/>

0+46- 264+59 PROPOSED 1 1/2\"/>

* BINDER OMISSIONS:
 STA. 63+64 TO STA. 66+27 (BRIDGE DECK & APPROACHES)
 STA. 193+21 TO STA. 196+31 (BRIDGE DECK & APPROACHES)

** PROPOSED LONGITUDINAL JOINT SEALANT PLACED UNDER THE SURFACE LIFT. See Special Provisions.

TYPICAL MAILBOX TURNOUT & CL D PATCH TY IV 10' DETAIL



ESTIMATED QUANTITIES - 33 MAILBOX TURNOUTS		
ITEM	UNIT	QUANTITY
BIT. MATERIALS (PRIME COAT)	POUND	297
HMA SURFACE CSE. MIX C, N5a	TON	176

Quantities are included in Incidental HMA Totals. Paving will be machine method approved by Engineer. No f screed paver method will not be allowed.

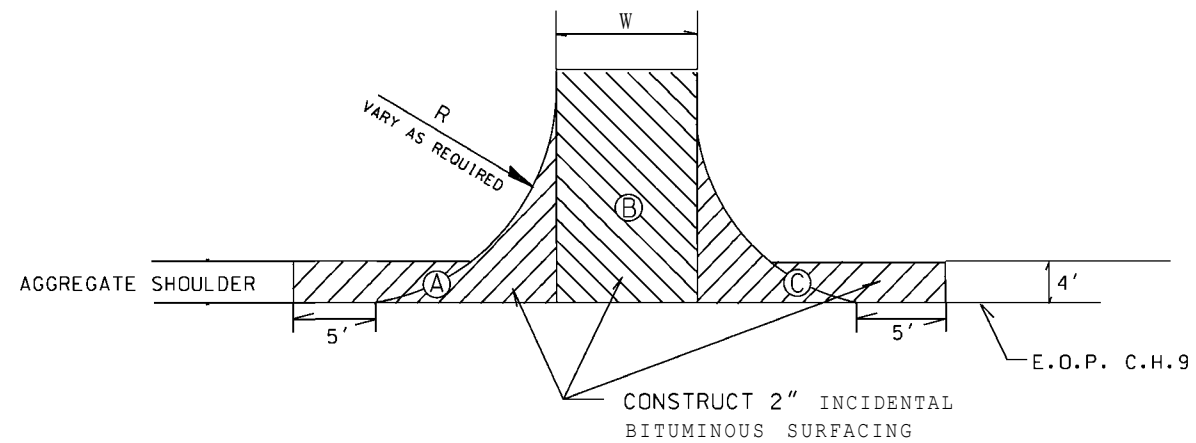
CL D PATCH TY IV 10" SCHEDULE			
Station	Width	Quantity	
37+29 - 37+99 LT	11'	86 SqYd	
70+00 - 72+00 LT	11'	244 SqYd	
		Total	330 Sq Yd

ESTIMATED QUANTITIES ON TANGENTS

ITEM	UNIT	MAINLINE	TURNLANE
		QUANTITY	QUANTITY
AGGREGATE SHOULDERS TY.B	TON	4675	NA
BITUMINOUS MATERIALS (TACK COAT 1	POUND	28938 (0.05114539) 0.025 1	937 (0.05) 422 Co. 025 1
BINDER (MM) IL 9,5 FG N50	TON	4691	65
BIT, CONC, SURF. CSE. MIX C, N50	TON	5672	79
SHORT-TERM PAVEMENT MARKING	FOOT	7890 (2630' X 3 app li cot lars 1	NA
LONGITUDINAL JOINT SEALANT	FOOT	26413	562

ALL TANGENT HMA WILL BE RAN THROUGH THE MATERIAL TRANSFER DEVICE.

INTERSECTION DETAIL

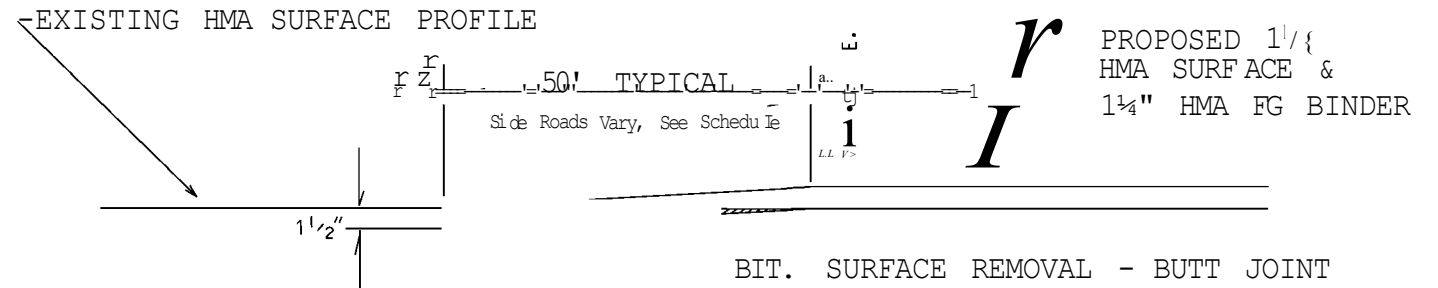


INTERSECTION QUANTITY SCHEDULE								
STATION	AREA			WIDTH	RADIUS	INCIDENTAL BIT. SURFACING CTON 1	BIT. MATRLS. (TACK COAT) (POUND)	LOCATION
26+39LT	A	B	C	16	30	15	45	4500W
80+12LT	A	B	C	16	30	15	45	3500W
107+07RT	A	B	C	16	30	15	45	3000W
146+76RT	A	B	C	20	30	20	50	2250W
186+81LT	A	B	C	16	30	15	45	1500W
213+91RT	A	B	C	20	30	20	50	1000W
256+19LT	A	B	C	38	30	40	65	Prairie View Lane
TOTALS						140	345	

Quantities are included in Incidental HMA Totals.
Paving will be machine method approved by Engineer.

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
17-00185-03-RS	KANKAKEE	3	3
CONTRACT NO. 87757			

PAVEMENT REMOVAL DETAILS



BITUMINOUS SURFACE REMOVAL AND TEMPORARY RAMP SCHEDULE

LOCATION	BIT. SURFACE REMOVAL - BUTT JOINT	TEMPORARY RAMP (5' Wide, Full width)	HMA SURF REMOVAL 1" L.	HMA SURF REMOVAL VARIABLE DEPTH
0+46 22'x50'	122	12		
4500W RD 26+39LT 16'x 7,	12	9		
63+64-64+64 ER APPROACH			244	
64+64-65+27 ER DECK 28'W			196	
65+27-66+27 ER APPROACH			244	
3500W RD 80+12LT 16'x 7,	12	9		
3000W RD 107+07RT 16'x 7,	12	9		
2250W RD 146+76RT 20'x 20'	44	11		
1500W RD 186+81LT 16'x 7,	12	9		
193+21-194+21 ER APPROACH			244	
194+21-195+31 ER DECK 30'W			367	
195+31-196+31 ER APPROACH			244	
1000W RD 213+91RT 20'x20'	44	11		
Prairie View In 256+19LT 38'x 20'	84	21		
258+48-264+10 Lt TURN LANE				437
263+53 22'x 50'	122	12		
TOTALS	464 SqYd	103 SqYd	1539 SqYd	437 SqYd

Pavement Design Data

Design Period = 12 Years

ADT = 3163 (2019) 3542 (2031)

P.v. = 88 = 3163 s.u. = 180 M,U, = 15 % = 222

T.F. = 0.59

S.N.f = 3,80

Pavement Structure Number

Ex. 9" AGGREGATE BASE (crushed) 9 x 0,07 = 0,63

Ex. 2 1/2" HMA Base Crse 2,5 x 0,15 = 0,37

Ex. 5" CLASS I 5 x 0,23 = 1.15

Ex. 2 1/4" CLASS I (2006 Overlay) 2,25 x 0,30 = 0,68

Prop. 2 1/2" HMA SURFACING. 2.5 x 0,40 = 1.00

3.83

Marshall Stability: 1700

GENERAL NOTES:

- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE ACTUAL LOCATION OF ALL UTILITIES.
- SHORT TERM PAVEMENT MARKINGS WILL BE REMOVED BY THE CONTRACTOR AT THEIR EXPENSE. PERMANENT PAVEMENT MARKINGS TO BE INSTALLED BY THE KANKAKEE COUNTY HIGHWAY DEPT.
- BRIDGE DECKS Sta. 64+64-65+27 & 194+21-195+31 SHALL BE RESURFACED WITH 1 1/4" HMA SURFACE CRSE TO THEIR FULL DECK WIDTHS 28' & 36'
- ALL SAW CUTTING FOR COLD PATCHING SHALL BE CONSIDERED INCIDENTAL TO THE PAY ITEM.