08-04-2023 LETTING ITEM 064

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

PLANS FOR PROPOSED IMPROVEMENT OF FEDERAL AID SECONDARY HIGHWAY 337

SURFACE TRANSPORTATION PROGRAM — RURAL "HMA RESURFACING PROJECT" IROQUOIS COUNTY

TOLL FREE JOINT UTILITY LOCATING INFORMATION FOR EXCAVATORS (J. U. L, I. E.) TELEPHONE NUMBER 1-800-892-0123

	INDEX OF SHEETS		
SHEET NUMBER	DESCRIPTION		
1	COVER SHEET LOCATION MAP		
2	SUMMARY OF QUANTITIES, GENERAL NOTES, MIXTURE TABLE, AND BUTT JOINT DETAIL		
3	EXISTING & PROPOSED X-SECTIONS - STA. 254+28 TO 296+50		
4	TYPICAL ENTRANCES, SIDE ROAD INTERSECTIONS, MAIL BOX TURNOUTS, INCIDENTAL HMA SURFACING		
5	QUANTITY TABLES		

·		and a
ILLIN(DIS HIGHWAY STANDARD DRAWINGS	
000001-08	SYMBOLS AND ABBREVIATIONS	
701301-04	LANE CLOSURE, 2L 2W, SHORT TIME OPERATION, FOR SPEEDS > 45 MPH	
701306-04	LANE CLOSURE, 2L 2W, SLOW MOVING DAY ONLY OPERATION, FOR SPEEDS > 45 MPH	-
701311-03	LANE CLOSURE 2L, 2W MOVING OPERATIONS, DAY ONL	Y
701901-08	TRAFFIC CONTROL DEVICES	
780001-05	TYPICAL PAVEMENT MARKINGS	
BLR 24-2	MAILBOX TURNOUT	

IMPROVEMENT ENDS
STA 296+50

DAY ONLY

BRIDGE OMISSION:
STA 285+21 TO STA 285+91

RAILROAD OMISSION:
STA 270+19 TO STA 270+32

LICENSED

PROFESSIONAL Z

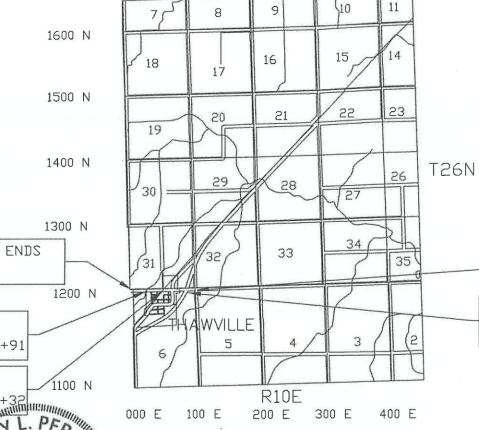
ENGINEER OF

SLINO

THESE PLAN WERE PREPARED BY ME OR BY FULL TIME MEMBER OF MY STAFF WORKING UNDER MY DIRECT SUPERVISION

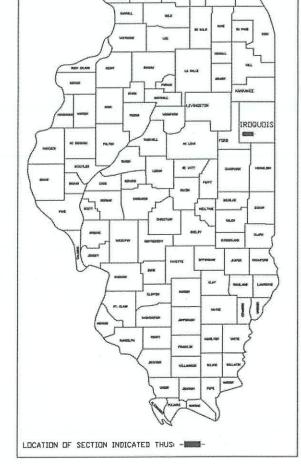
GREGORY PERKINSON, COUNTY ENGINEER
ILL. REG. PROF. ENG. #062-035801
DATE EXPIRES: 11/30/23

FAS ROUTE 337 (CH 47) SECTION: 19-00156-01-RS PROJECT NO. 18HV(064) JOB NO. C-93-015-24



R10E 000 E 100 E 200 E 300 E 400 E 0 1 2 3 4 CALES MILE

GROSS LENGTH = 4,222.00 FT. = 0.799 MILE DMISSION LENGTH = 100.00 FT. = .019 MILE NET LENGTH = 4,122.00 FT. = 0.780 MILE



DESIGN SPEED = 50 M. P. H.

IMPROVEMENT BEGINS STA 254+28
INTERSECTION OF CH 47 & IL RT 54

OLD STATE ROUTE 54 OMISSION: STA 264+22 TO STA 264+39

Passed

Passed

Passed

DISTRICT THREE DEAL READS AND STREETS ENGINEER

RELEASED FOR BID
BASED ON LIMITED

REVIEW

REGION TWO ENGINEER

REGION TWO ENGINEER

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

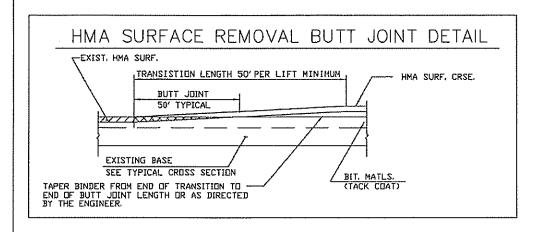
CONTRACT 87828

"PRINTED BY THE AUTHORITY

OF THE STATE OF ILLINOIS"

	SUMMA	RY OF QUANTITIES	FUND CODE	0005
ITEM #	PAY ITEM #	PAY ITEM	TINU	QUANTITY
1	40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	7, 500
2	40600370	LONGITUDINAL JOINT SEALANT	FOOT	4, 122
3	40600982	HOT-MIX ASPHALT SURFACE REMOVAL-BUTT JOINT	SQ YD	1, 156
4	40600990	TEMPORARY RAMP	SQ YD	136
5	40602978	HOT-MIX ASPHALT BINDER COURSE, IL-9. 5, N50	TON	900
6	40604050	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX 'C', N50	TON	900
7	40800050	INCIDENTAL HOT-MIX ASPHALT SURFACING	TON	218
8	48101200	AGGREGATE SHOULDERS, TYPE B	TON	950
9	67100100	MOBILIZATION	L SUM	1
10	70300100	SHORT TERM PAVEMENT MARKING	FOOT	824
11	70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	138
12	70300221	TEMPORARY PAVEMENT MARKING - LINE 4° - PAINT	FOOT	1,878
* 13	78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS & SYMBOLS	SQ FT	122
* 14	78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24'	FOOT	66
* 15	78001110	PAINT PAVEMENT MARKING - LINE 4'	FOOT	3, 756
* 16	78011000	GROOVING FOR RECESSED PAVEMENT MARKING, LETTERS & SYMBOLS	SQ FT	122
* 17	78011125	GROOVING FOR RECESSED PAVEMENT MARKING 25'	FOOT	66
18	X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1
19	Z0048665	RAILRUAD PROTECTIVE LIABILITY INSURANCE	L SUM	1

* SPECIALITY ITEMS



ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAS 337	19-00156-01-RS	IROQUOIS	5	2
	J□B # + C-93-01		PROJECT #: 18H	******

CONTACT 87828

MIXTURE TABLE

	HMA BINDER	HMA SURFACE	INCIDENTAL HMA
PG GRADE	PG64-22	PG64-22	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	CORES/NUCLEAR	CORES/NUCLEAR	SATISFACTION OF ENGINEER
MIXTURE WEIGHT	112#/\$q, Yd,/In.	112#/Sq. Yd./In.	112#/\$q. Yd./In
QUALITY MANAGEMENT PROGRAM	QC/QA	QC/QA	QC/QA
SUBLOT SIZE	N/A	N/A	N/A
LOCATION(S)	ENTIRE PROJECT	ENTIRE PROJECT	ENTIRE PROJECT
MATERIAL TRANSFER DEVICE (REQUIRED)	DO	NO	NΩ

MATERIAL SHALL BE COMPACTED TO 93.0-97.4 PERCENT OF THE MAXIMUM THEORETICAL DENSITY, EXCEPT THAT WHEN PLACED AS FIRST LIFT ON AN UNIMPROVED SUBGRADE THE MINIMUM PERCENT COMPACTION SHALL BE 92.0 PERCENT. THE MAXIMUM THEORETICAL DENSITY SHALL BE DETERMINED FROM THE MOVING AVERAGE AS SPECIFIED IN THE QC/QA SPECIFICATION.

GENERAL NOTES

THE THICKNESS OF HOT- MIX ASPHALT MIXTURES SHOWN ON THE TYPICAL X-SECTION IS THE NOMINAL THICKNESS, DEVIATIONS FROM THE NOMINAL THICKNESS WILL BE PERMITTED WHEN SUCH DEVIATIONS OCCUR DUE TO IRREGULARITIES IN THE EXISTING SURFACE,

THE ENGINEER SHALL BE THE SOLE JUDGE CONCERNING CURING TIME FOR THE VARIOUS HOT-MIX ASPHALT LIFTS.

ANY REFERENCE TO A STANDARD IN THESE PLANS SHALL BE INTERPRETED TO MEAN THE EDITION AS INDICATED BY THE SUB-NUMBER LISTED IN THE INDEX OF SHEETS OR THE COPY OF THE STANDARD INCLUDED IN THESE PLANS.

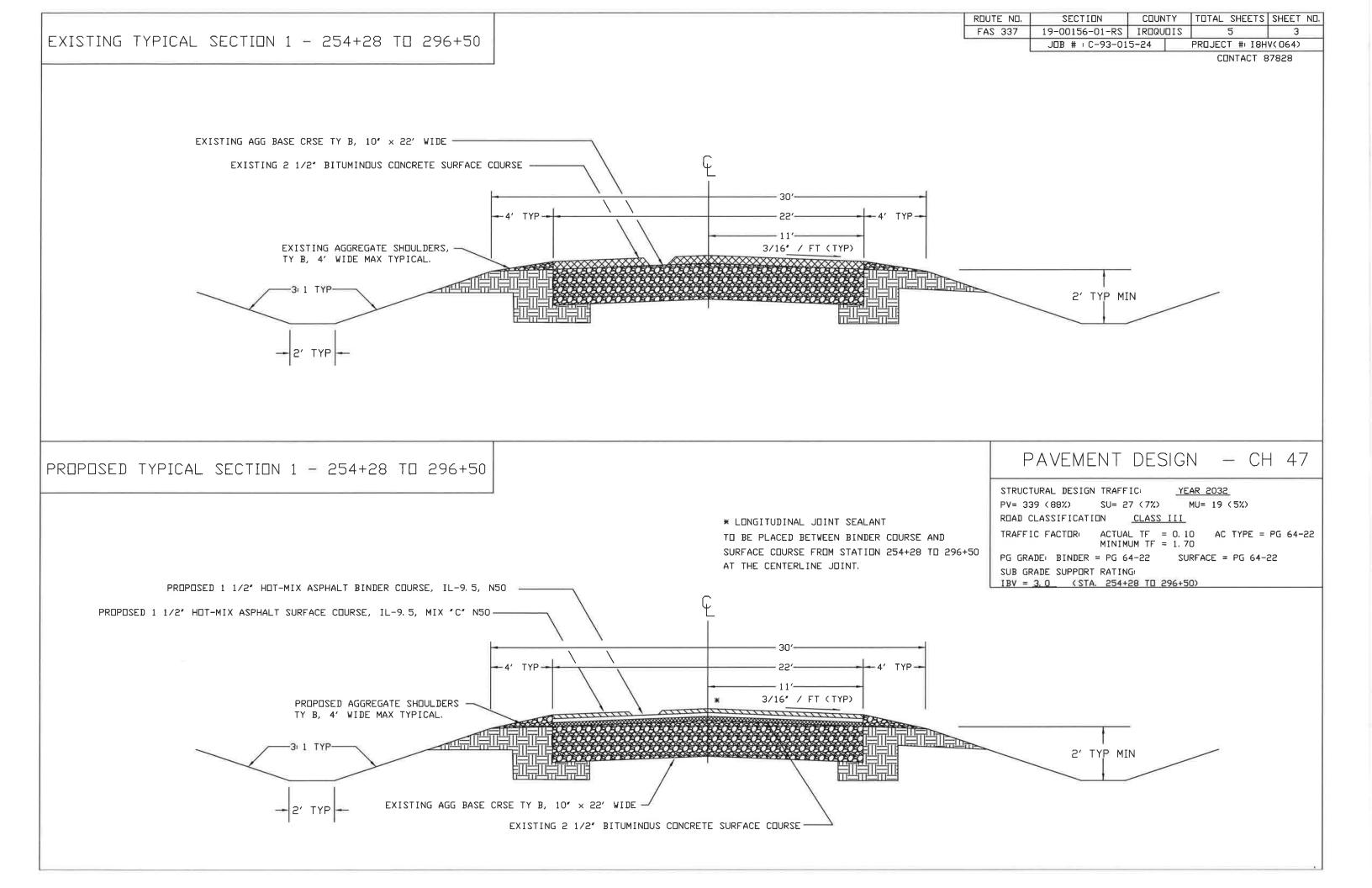
SECTION NOTES

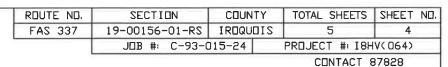
THE PROPOSED IMPROVEMENT CONSISTS OF A HOT MIX ASPHALT SURFACE COURSE INCLUDING BINDER COURSE, SHOULDER STONE AND ALL WORK NECESSARY TO COMPLETE THE PROJECT ACCORDING TO THE PLANS AND SPECIFICATIONS.

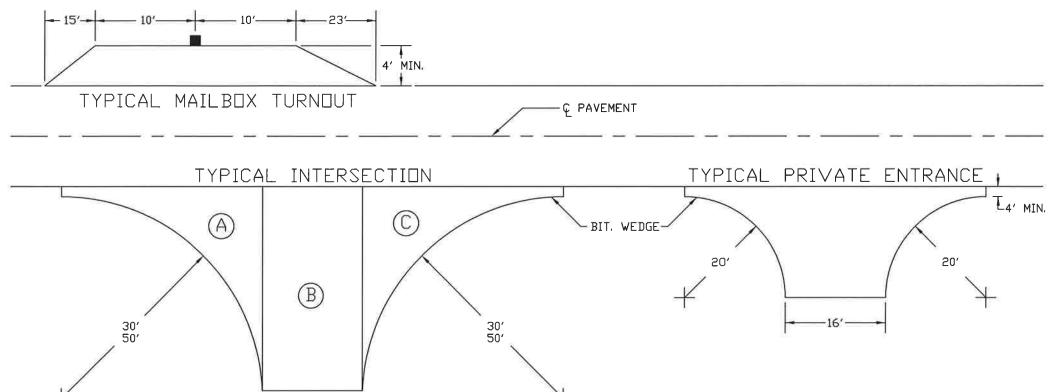
COUNTY HIGHWAY 47 WAS CONSTRUCTED UNDER SECTIONS SECTION 156 MFT ON 4/9/41 FROM STATION 253+93 TO 298+86.5. SECTION 91-00156-01-AS APPROVED 4/24/91 FROM STATION 253+93 TO 298+86.5. EXISTING BITUMINOUS CONCRETE COURSE WAS PLACED AS SECTION 92-00000-00-SM,

APPLICATION RATES

THE FOLLOWING RATES OF APPLICATION HAVE BEEN ASSUMED IN CALCULATING PLAN QUALITIES: 2, 05 GRANULAR MATERIALS TONS/CU YD LBS/SQ FT BITUMINOUS MATERIALS TACK COAT 0, 05/, 025 HOT MIX ASPHALT SURFACE COURSE 112 LBS/SQ YD/INCH LBS/SQ YD/INCH BINDER COURSE, IL-19.0, N50 112 FT/40 FT OF APPLICATION SHORT TERM PAVEMENT MARKING PAINT PAVEMENT MARKING - LINE 4' 10 FT/40 FT OF APPLICATION







18'-22'

A+C = RADIUS ON MAINLINE SHOWN AS SIDE = VAR ALL INTERSECTION ARE 18' WIDE UNLESS INDICATED WITH A *. A+B+C = TYPICAL SIDE ROAD INTERSECTION

NOTE: AGGREGATE THAT IS PLACED AROUND THE INCIDENTAL HOT-MIX LOCATIONS SHALL BE PAID FOR AS AGGREGATE SHOULDERS, TYPE B AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR PLACEMENT AT THESE LOCATIONS.

NOTE: ALL PRIVATE ENTRANCES, MAIL BOX TURNOUTS AND SIDE ROAD INTERSECTIONS SHALL BE PAID FOR AS INCIDENTAL BITUMINOUS SURFACING - TOTAL 218 TON.

40800050 - INCIDENTAL HMA SURFACING

TYPICAL PRIVATE ENTRANCES

STATION	WIDTH	SQ. YD.	TON
258+49	LT	25	4
267+27	RT	25	4
267+49	RT	25	4
271+92	RT	25	4
272+15	LT	25	4
273+47	LT	25	4
273+91	LT	25	4
274+14	LT	25	4
275+15 TO 275+36	RT	50	8
275+36 TO 275+81	RT	55	10
275+81 TO 276+25	RT	50	8
276+25 TO 277+30	RT	175	28
278+21	LT	50	8
278+32	RT	50	8
278+40	RT	25	4
278+70	LT	55	10
279+94	LT	25	4
293+33	RT	25	4
294+18	RT	25	4
TOTALS		785	128

TYPICAL INTERSECTION

STATION	SIDE	SQ. YD.	TON
266+37	LT	96	14
268+23	LT	110	16
272+48	RT	110	16
276+85	LT	110	16
281+61	LT	110	16
TOTALS		536	78

TYPICAL MAILBOX TURNOUT

STATION	SIDE	SQ. YD.	TON
257+99	LT	25	4
266+40	RT	25	4
293+70	RT	25	4
TOTALS		75	12

INCIDENTAL HMA SURFACIN	G TOTALS	
TYPICAL INT,'S & SIDE ROADS	78 TONS	
PRIVATE ENTRANCES 128 TONS		
TYPICAL MAILBOX TURNOUT 12 TONS		
TOTAL = 218 TONS		

78001110 - PAINT PAVEMENT MARKING - LINE 4" 70300221 - TEMPORARY PAVEMENT MARKING LINE 4" - PAINT

STATION TO STATION	FOOT	LINE 4"		
NO PASSING ZONES				
266+43 to 274+68	825	1,032		
CENTERLINE				
254+28 TO 264+22	994	249		
264+39 TO 266+43	204	51		
274+68 TO 296+50	2,182	546		
SUB -TOTAL= 1,878				
TOTAL ALL STRIPING FOR PAINT PAVEMENT MARKING LINE 4" (TWO APPLICATIONS) = 3,756'				

TOTAL FOR TEMPORARY PAVEMENT MARKING = 1,878'

40600990 TEMPORARY RAMP

STATION	SQ. YDS.
254+28 TO 254+35	17
264+15 TD 264+22	17
264+39 TD 264+46	17
270+12 TD 270+19	17
270+32 TO 270+39	17
285+14 TD 285+21	17
285+91 TO 285+98	17
296+43 TO 296+50	17
TOTAL =	136

X7010216 TRAFFIC CONTROL & PROTECTION (SPECIAL)

STATION TO STATION	L SUM
ENTIRE JOB	1
TOTAL =	1

78000650 THERMOPLASTIC PAVEMENT MARKING - LINE 24"

CTATION	FOOT
STATION	FUBI
266+54 RT	11
267+04 RT	11
269+90 RT	11
270+65 LT	11
273+64 LT	11
274+16 LT	11
TOTAL =	66

78011125 GROOVING FOR RECEESSED PAVEMENT MARKING 25"

STATION	FOOT
266+54 RT	11
267+04 RT	11
269+90 RT	11
270+65 LT	11
273+64 LT	11
274+16 LT	11
TOTAL =	66

78011000 GROOVED FOR RECESSED PAVEMENT MARKING LETTERS & SYMBOLS

STATION TO STATION	SQ FT
266+80 RT	61
273+39 LT	61
TOTAL =	122

Z0048665 RAILROAD PROTECTIVE LIABILITY INSURANCE

	STATION TO STATION	L SUM
	ENTIRE JOB	1
1000	TOTAL =	1

PAVEMENT SCHEDULE

PAY ITEM	40602978	40604050	48101200	40600290	40600370
UNIT	(TON)	(TDN)	(TON)	(POUND)	(FOOT)
STATION TO STATION		HMA SURFACE COURSE	AGGREGATE SHOULDERS TYPE B	BITUMINOUS MATERIALS (TACK COAT)	LONGITUDINAL JOINT SEALANT
254+28 TO 296+50	900	900	950	7,500	4,122
TOTAL =	900	900	950	7,500	4,122

70300150 SHORT TERM PAVEMENT MARKING REMOVAL

STATION TO STATION	SQ FT
254+28 TD 296+50	138
TOTAL =	138

67100100 MOBILIZATION

STATION TO STATION	L SUM
ENTIRE JOB	1
TOTAL =	1

78000100 THERMOPLASTIC PAVEMENT MARKING, LETTERS & SYMBOLS

STATION TO STATION	SQ FT
266+80 RT	61
273+39 LT	61
TOTAL =	122

70300100 SHORT TERM PAVEMENT MARKING

STATION TO STATION	FOOT
254+28 TD 296+50	412
TOTAL =	412
(2 LIFTS) TOTAL =	824

40600982 HMA SURFACE REMOVAL BUTT JOINT

BOLL JOINT	
STATION TO STATION	SQ. YDS.
254+28 TD 254+78	122
263+72 TD 264+22	122
264+39 TD 264+89	122
268+25 LT	18
269+69 TO 270+19	122
270+32 TO 270+82	122
272+43 RT	15
275+36 RT TO 275+81 RT	35
276+80 LT	19
278+21 LT	2
278+70 LT	2
278+32 RT	34
281+57 LT	55
284+71 TO 285+21	122
285+91 TO 286+41	122
296+00 TD 296+50	122
	1157
TOTAL =	1156