

INDEX OF SHEETS

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1	COVER SHEET -- LOCATION MAP
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3	TYPICAL X-SECTIONS
4	TYPICAL ENTRANCES, SIDE ROAD INTERSECTIONS, MAIL BOX TURNOUTS, AND BUTT JOINTS

STANDARDS

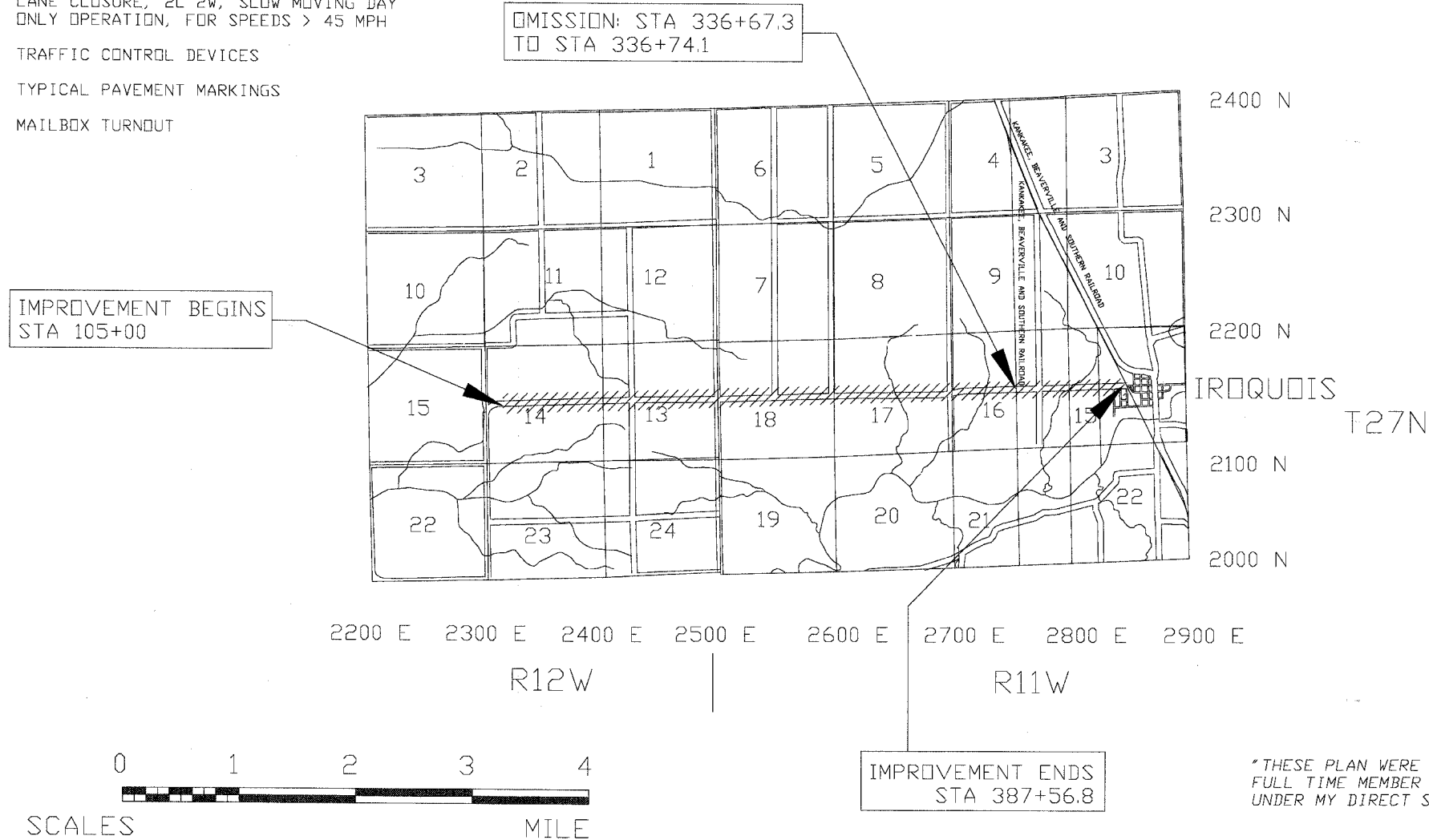
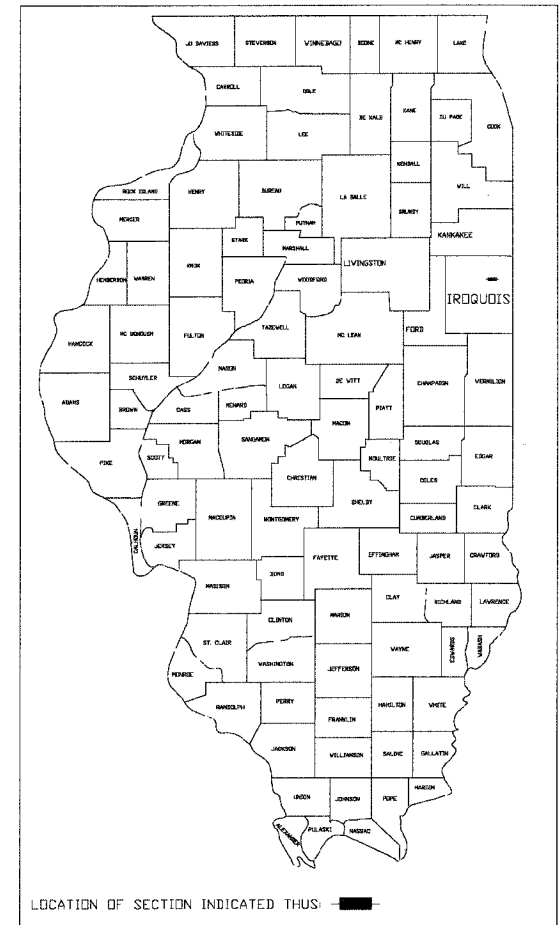
000001-04	SYMBOLS AND ABBREVIATIONS
542401	METAL END SECTIONS FOR PIPE CULVERTS
701301-02	LANE CLOSURE, 2L 2W, SHORT TIME OPERATION, FOR SPEEDS > 45 MPH
701306-01	LANE CLOSURE, 2L 2W, SLOW MOVING DAY ONLY OPERATION, FOR SPEEDS > 45 MPH
702001-06	TRAFFIC CONTROL DEVICES
780001-01	TYPICAL PAVEMENT MARKINGS
BLR 24-1	MAILBOX TURNOUT

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
PLANS FOR PROPOSED IMPROVEMENT
OF FEDERAL AID SECONDARY HIGHWAY 330
BUILT IN ACCORDANCE WITH L.A.P.P. POLICY
IROQUOIS COUNTY HIGHWAY PROJECT

ROUTE	FAS 330, CH 31 (IROQUOIS ROAD)
SECTION	04-00220-04-RS
PROJECT	RS-330(107)
JOB NUMBER	C-93-044-05

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAS 330	04-00220-04-RS	IROQUOIS	4	1

F. H. W. A. REG. 4 ILLINOIS PROJECT RS-330(107) CONTRACT 87305



FUNCTIONAL CLASSIFICATION = MAJOR COLLECTOR
CURRENT ADT = 520
DESIGN ADT = 572
DESIGN SPEED = 50 MPH
THE ACCEPTANCE OF THIS PROJECT IS BASED ON THE MINIMUM DESIGN CRITERIA FOR LOCAL AGENCY PAVEMENT PRESERVATION POLICY (LAPP) PROJECTS.

CONTRACT 87305

Approved June 29, 2007
Joel V. Moore
 County Engineer

Passed 07-03, 2007
Harold L. Long
 DISTRICT THREE ENGINEER OF LOCAL ROADS & STREETS

RELEASED FOR BID
 BASED ON LIMITED 07-03, 2007
 REVIEW
Harvey E. Ryan
 DEPUTY DIRECTOR OF HIGHWAYS, REGION TWO ENGINEER

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

NOTES:

1. JULIE # 1-800-892-0123.

KNOWN UTILITIES
EASTERN ILLINI ELECTRIC CO-OP
VERIZON NORTH

CONTRACT 87305

GROSS LENGTH OF IMPROVEMENT = 28256.80 FT. = 5.352 MI.

NET LENGTH OF IMPROVEMENT = 28250.00 FT. = 5.350 MI.

OMISSION LENGTH = 6.80 FT. = 0.001 MI.



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

Joel V. Moore
 JOEL V. MOORE, COUNTY ENGINEER
 ILL. REG. PROF. ENG. #62056831
 DATE EXPIRES: 11/30/07

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAS 330	04-00220-04-RS	IRROQUOIS	4	2
F. H. W. A. REG. 4 ILLINOIS			PROJECT RS 330(107)	
CONTACT 87305				

SUMMARY OF QUANTITIES			FUND CODE	I000
ITEM #	CODE #	ITEM	UNIT	QUANTITY
1	Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM	1.00
2	28100807	STONE DUMPED RIPRAP, CLASS A4	TON	20.00
* 3	40600100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	3700.00
4	40600300	AGGREGATE (PRIME COAT)	TON	132.00
* 5	40600625	LEVEL BINDER (MACHINE METHOD), N50	TON	5750.00
* 6	40600982	HOT- MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	889.00
7	40600990	TEMPORARY RAMP	SQ YD	48.00
* 8	40603310	HOT- MIX ASPHALT SURFACE COURSE, MIX "C" N50	TON	5500.00
* 9	40800050	INCIDENTAL HOT-MIX ASPHALT SURFACING	TON	423.00
*10	48101200	AGGREGATE SHOULDERS, TYPE B	TON	6700.00
11	54213879	STEEL END SECTION 24"	EACH	2.00
*12	54390180	INSERTION CULVERT LINER 24"	FOOT	88.00
13	66700205	PERMANENT SURVEY MARKER, TYPE 1	EACH	3.00
14	67100100	MOBILIZATION	L SUM	1.00
*15	70100460	TRAFFIC CONTROL AND PROTECTION, STANDARD 701306	L SUM	1.00
*16	70300100	SHORT-TERM PAVEMENT MARKING	FOOT	5652.00
*17	70300200	TEMPORARY PAVEMENT MARKING	FOOT	31699.00
18	70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	942.00
Δ 19	78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	201.00
Δ 20	78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	90.00
Δ 21	78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	31699.00

* SEE SPECIAL PROVISIONS
 Δ SPECIALTY ITEMS

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.

FOR ALL PAVEMENT MARKINGS ON FINAL SURFACES (I.E., MAINLINE PAVEMENT), ONLY TEMPORARY PAVEMENT MARKING TAPE SHALL BE USED.

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.

THE FOLLOWING RATES OF APPLICATION HAVE BEEN ADDUMED IN CALCULATING PLAN QUALITIES:

GRANULAR MATERIALS	2.05	TONS/CU YD
BITUMINOUS MATERIALS PRIME COAT	0.05	GAL/SQ YD OR 0.35 GAL/SQ YD
AGGREGATE PRIME COAT	0.002	TONS/SQ YD
HOT MIX ASPHALT SURFACE COURSE	112	LBS/SQ YD/INCH
LEVELING BINDER (MACHINE METHOD)	112	LBS/SQ YD/INCH
SHORT TERM PAVEMENT MARKING	4	FT/40 FT OF APPLICATION
PAINT PAVEMENT MARKING - LINE 4"	10	FT/40 FT OF APPLICATION

SECTION NOTES

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

THIS HIGHWAY WAS CONSTRUCTED UNDER SECTIONS 148-15d, 149-15d, 220G, 220Q, 78-00220-03-RS

PERMANENT SURVEY MARKERS

STATION	
121+63.30	148+11.35
33.4' LT OF 201+32.69	

FUNCTIONAL OVERLAY

DESIGN DATA FOR INFORMATION ONLY.

FLEXIBLE PAVEMENT OVERLAY DESIGN FOR 73,280 # CLASS III ROAD

DESIGN PERIOD D. P. = 20 YEARS

DESIGN YEAR = 2026 PV=88% SU=7% MU=5%

DESIGN ADT = 572 IBV = 4.35 TRAFFIC FACTOR = 0.126

SN_F = 2.8 SN_{Fe} = 1.59 D_o = 3.03

MIXTURE TABLE

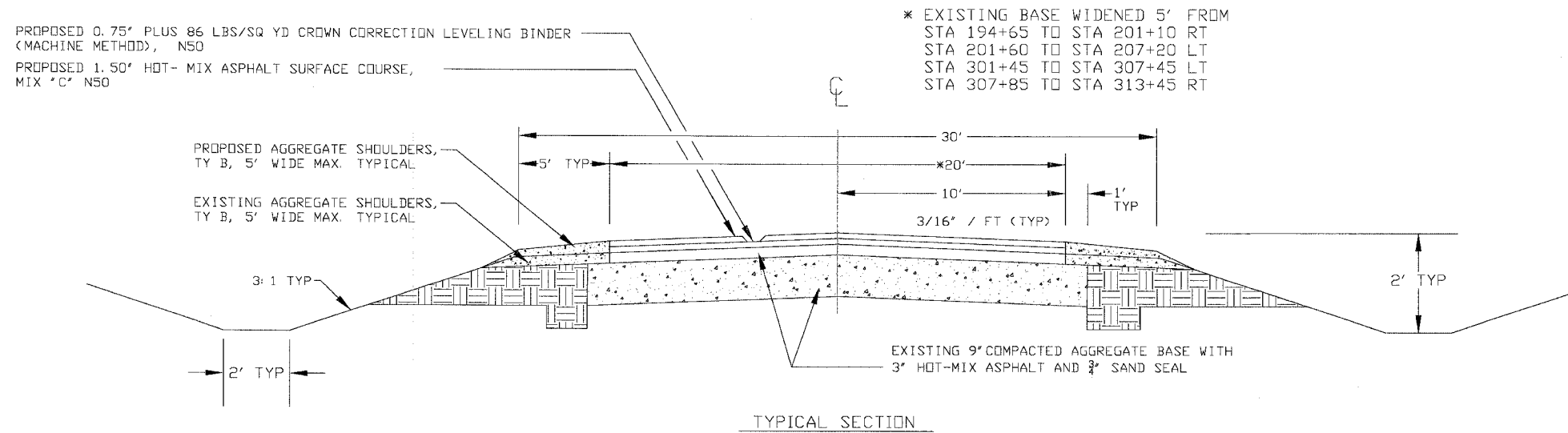
	HMA LEVEL BINDER	HMA SURFACE
PG GRADE	PG64-22	PG64-22
MAX % RAP ALLOWABLE**	15 %	15%
DESIGN AIR VOIDS	4.0% @ N50	4.0% @ N50
MIXTURE COMPOSITION	IL 9.5	IL 12.5 OR IL 9.5
FRICITION AGGREGATE		MIXTURE C
DENSITY TEST METHOD	SATISFACTION OF ENGINEER	CORRELATION

** IF RAP OPTION IS SELECTED, THE ASPHALT CEMENT GRADE MAY NEED TO BE ADJUSTED. THIS WILL BE DETERMINED BY THE ENGINEER.

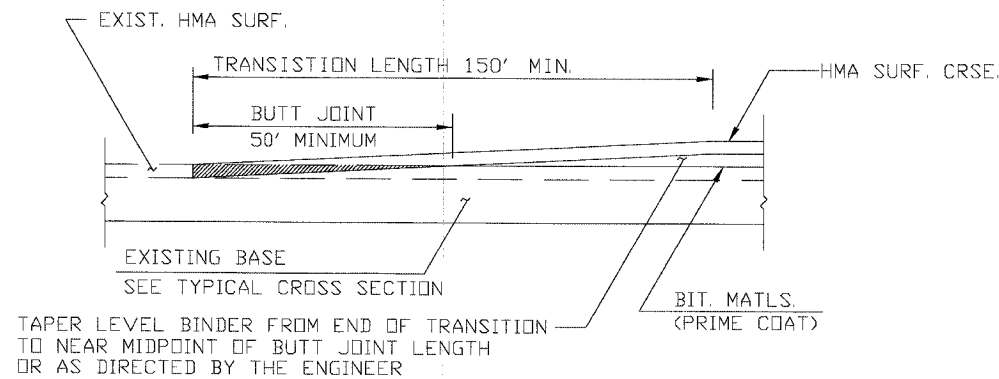
PAVEMENT MARKINGS ☉ & NO PASSING ZONES

STATION TO STATION	FOOT	LINE 4"
CENTERLINE		
105+00 TO 200+00	9500	2375
211+00 TO 255+00	4400	1100
310+00 TO 336+40	2640	660
337+00 TO 381+00	4400	1100
NO PASSING ZONES		
105+00 TO 113+00 LT	800	800
122+00 TO 131+00 RT	900	900
133+00 TO 142+00 LT	900	900
161+00 TO 170+00 RT	900	900
170+00 TO 180+00 LT	1000	1000
190+00 TO 211+00 RT	2100	2100
200+00 TO 222+50 LT	2250	2250
242+00 TO 310+00 RT	6800	6800
255+00 TO 319+00 LT	6400	6400
327+00 TO 337+00 RT	1000	1000
336+40 TO 346+40 LT	1000	1000
370+00 TO 387+56.8 RT	1757	1757
381+00 TO 387+56.8 LT	657	657
TOTALS		31,699

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAS 330	04-00220-02-RS	IRROQUOIS	4	3
F. H. W. A. REG. 4 ILLINOIS			PROJECT RS-330(107)	
CONTRACT 87305				



HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT



HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT

STATION TO STATION	SQ. YD.
STA 105+00.00 TO 105+50.00	111
*STA 334+66.00 TO 335+41.00	167
STA 336+17.30 TO 336+67.30	111
STA 336+74.10 TO 337+24.10	111
*STA 338+01.00 TO 338+76.00	167
STA 386+56.80 TO 387+56.80	222
TOTALS	889

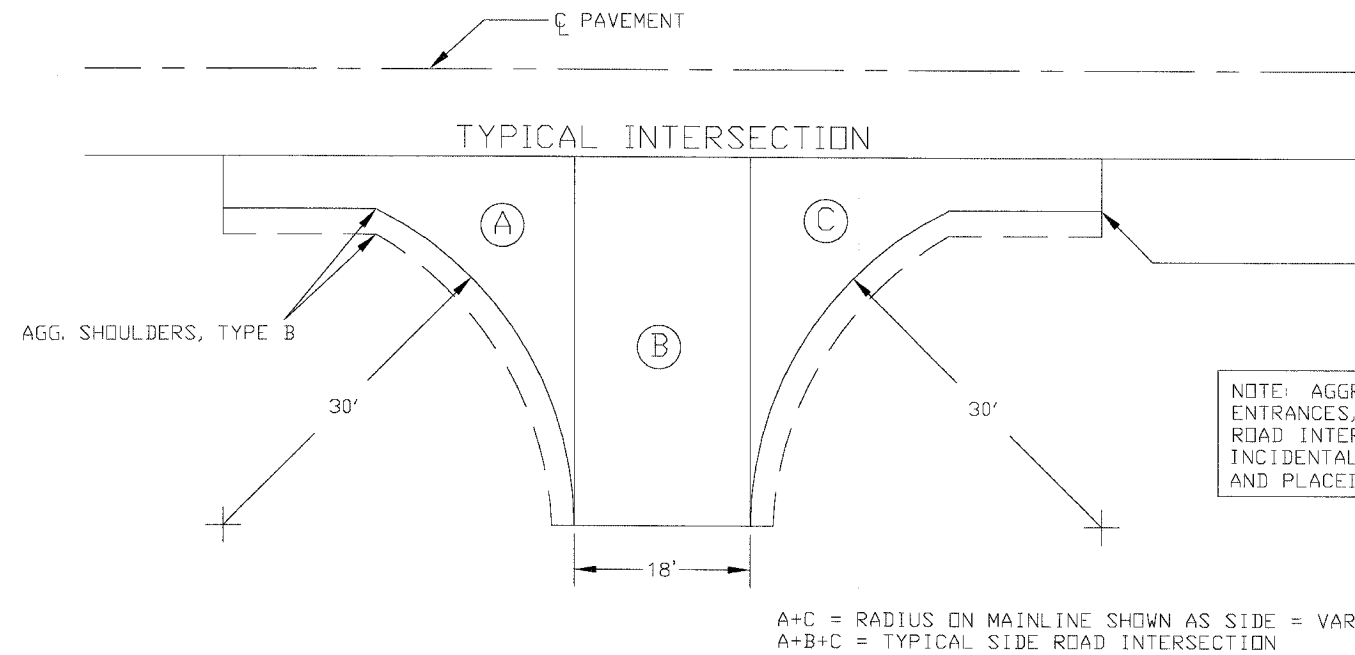
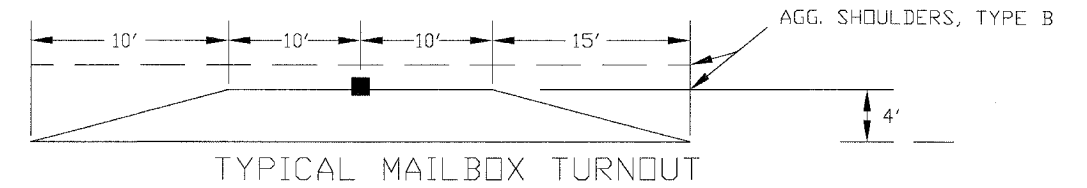
* VARIABLE THICKNESS, SEE SPECIAL PROVISIONS

CURVE #1		CURVE #2	
P.I.	198+22.28	P.I.	204+00.00
I	6°10'	I	5°21'
D	1°00'	D	1°00'
R	5729.58'	R	5729.58'
T	308.64'	T	267.70'
L	616.67'	L	535.00'
E	8.31'	E	6.25'
P.C.	195+13.64	P.C.	201+32.30
P.T.	201+30.31	P.T.	206+67.30
S.E.	NORMAL CROWN	S.E.	NORMAL CROWN
CURVE #3		CURVE #4	
P.I.	304+38.29	P.I.	310+59.48
I	9°38'	I	9°25'
D	2°00'	D	2°00'
R	2864.93'	R	2864.93'
T	241.43'	T	235.95'
L	481.67'	L	470.83'
E	10.15'	E	9.70'
P.C.	301+96.86	P.C.	308+23.53
P.T.	306+78.53	P.T.	312+94.36
S.E.	3.5%	S.E.	3.5%
BEGIN S.E.	301+09.86	LEVEL	307+35.53
FULL S.E.	302+25.86	FULL S.E.	308+52.53
FULL S.E.	306+78.53	FULL S.E.	312+65.36
LEVEL	307+35.53	END S.E.	313+81.36

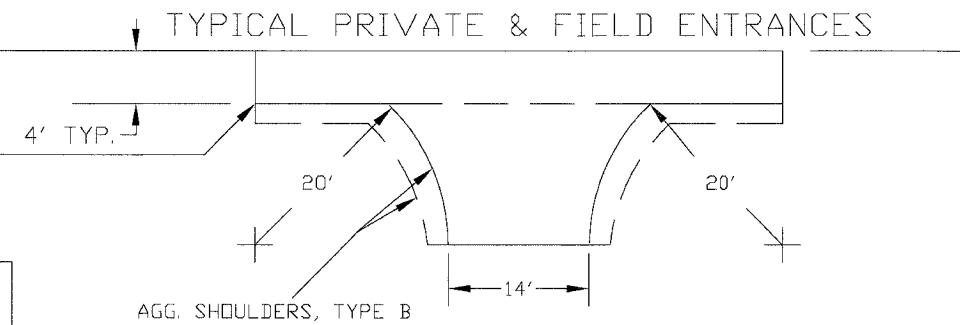
REPAIR 24" CROSS ROAD CULVERT - STATION 337+46

88.00 FT	INSERTION CULVERT LINER 24"
2.00 FT	24" STEEL END SECTIONS
20.00 TON	STONE DUMPED RIPRAP, CLASS A4

ROUTE NO. FAS 330	SECTION 04-00220-04-RS	COUNTY IROQUOIS	TOTAL SHEETS 4	SHEET NO. 4
F. H. W. A. REG. 4 ILLINOIS			PROJECT RS 330(107)	
CONTRACT 87305				



NOTE: AGGREGATE AROUND ALL PRIVATE ENTRANCES, MAIL BOX TURNOUTS AND SIDE ROAD INTERSECTIONS SHALL BE CONSIDERED INCIDENTAL TO AGGREGATE SHOULDERS, TYPE B AND PLACED AS DIRECTED BY THE ENGINEER.



TYPICAL MAILBOX TURNOUT

STATION	SIDE	SQ. YD.	TON	STATION	SIDE	SQ. YD.	TON
111+73	LT	15	4	261+45	RT	15	4
113+65	LT	15	4	281+05	RT	15	4
147+10	LT	15	4	291+90	RT	15	4
211+93	RT	15	4	327+00	RT	15	4
228+18	RT	15	4	340+84	RT	15	4
TOTALS		150 SQ YDS	40 TON				

TYPICAL PRIVATE ENTRANCES

STATION	TYPE	SIDE	SQ. YD.	TON	STATION	TYPE	SIDE	SQ. YD.	TON
112+00	PE	RT	57	8	258+55	PE	LT	57	8
113+73	PE	RT	57	8	259+75	PE	LT	57	8
*131+81	PE	RT	20	4	261+15	PE	LT	57	8
*135+16	PE	RT	20	4	*267+61	PE	RT	20	4
146+54	PE	RT	57	8	280+78	PE	RT	57	8
175+87	PE	LT	57	8	292+10	PE	LT	57	8
212+60	PE	LT	57	8	294+10	PE	LT	57	8
218+09	PE	LT	57	8	327+59	PE	RT	57	8
220+73	PE	LT	57	8	*341+17	PE	RT	20	4
225+68	PE	LT	57	8	341+61	PE	RT	57	8
227+93	PE	RT	57	8	368+09	PE	RT	57	8
*249+76	PE	LT	20	4	373+54	PE	LT	57	8
257+90	PE	LT	57	8	374+60	PE	LT	57	8
TOTALS				1297 SQ YD	188 TON				

NOTE: ALL PRIVATE ENTRANCES, MAIL BOX TURNOUTS AND SIDE ROAD INTERSECTIONS SHALL BE PAID FOR AS INCIDENTAL HOT-MIX ASPHALT SURFACING - TOTAL 423 TON.

TYPICAL INTERSECTION

STATION	SIDE	WIDTH	SQ. YD.	TON	STATION	SIDE	WIDTH	SQ. YD.	TON
161+37	TR 330	LT	18'	138	307+62	TR 390A	RT	18'	138
161+38	TR 330	RT	18'	138	347+60	TR 404	LT	18'	138
201+33	CH 15	LT	18'	138	347+62	TR 404	RT	18'	138
201+33	CH 15	RT	18'	138	381+28	SCHOOL ST	RT	18'	138
227+64	TR 348	LT	18'	138	384+27	PICKAMINCH ST	RT	18'	138
254+19	TR 362A	LT	18'	138	387+40	SPRING ST	RT	18'	138
307+62	TR 390A	LT	18'	138					
TOTALS				1794 SQ YD	195 TON				

* THESE ENTRANCES SHALL RECEIVE ONLY A FOUR FOOT PAVED APRON.