

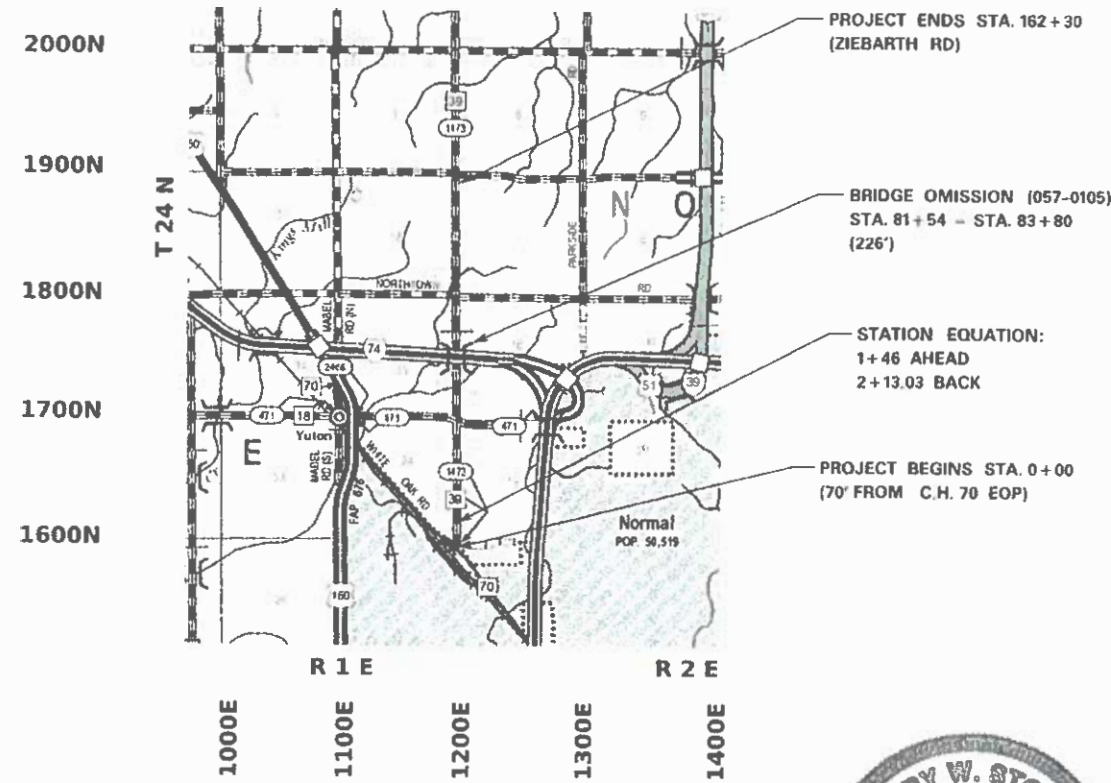
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1473	20-00056-11-RS	MCLEAN	10	1
		ILLINOIS	CONTRACT NO. 91603	

INDEX OF SHEETS

- 1 COVER SHEET
- 2 SUMMARY OF QUANTITIES
- 3-4 TYPICAL CROSS SECTIONS
- 5 TYPICAL DETAILS
- 6-7 INTERSECTION DETAILS
- 8-10 PLAN VIEW

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
PROPOSED HIGHWAY PLANS

F.A.S. ROUTE 1473
 SECTION 20-00056-11-RS
COLD IN-PLACE RECYCLING & HMA OVERLAY
MCLEAN COUNTY
ROPP ROAD (C.H. 39)
JOB# C-95-014-21
PROJECT: RLNU(879)
FUNDING: STU & TARP



APPROVED DECEMBER 14, 2020
Jerry Stokes
 COUNTY ENGINEER

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

PASSED FEBRUARY 2, 2021
[Signature]
 DISTRICT FIVE ENGINEER OF LOCAL ROADS & STREETS

RELEASING FOR BID BASED ON LIMITED REVIEW
February 2, 2021
[Signature]
 REGION THREE ENGINEER

THESE PLANS ARE NOT TO SCALE

J.U.L.I.E.
 JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
 1-800-892-0123
 OR 811

- NOTE: THE TOTAL LENGTH OF THE PROPOSED PROJECT IS 16,297 FEET WITH A NET LENGTH OF 16,071 FEET (3.04 MILES)
- NOTE: THESE PLANS MEET THE MINIMUM REQUIREMENTS FOR A 3R IMPROVEMENT
- NOTE: CURRENT ADT = 1,800 (2015)
 FUNCTIONAL CLASSIFICATION: MAJOR COLLECTOR



CONTRACT NO. 91603

**PRINTED BY THE AUTHORITY
 OF THE STATE OF ILLINOIS**

SUMMARY OF QUANTITIES			
ITEM NUMBER	ITEM	UNIT	TOTAL QUANTITY
30201700	PORTLAND CEMENT	TON	110
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	17,844
40600990	TEMPORARY RAMP	SQ. YD	122
40602965	HMA BINDER COURSE, IL-9.5FG, N50	TON	2,450
40604050	HMA SURFACE COURSE, IL-9.5, MIX "C", N50	TON	3,375
40800029	BITUMINOUS MATERIALS (TACK COAT)	POUND	1,000
40800050	INCIDENTAL HOT MIX ASPHALT SURFACING	TON	350
44000155	HMA SURFACE REMOVAL, 1 1/2"	SQ. YD	6,625
44000300	CURB REMOVAL	FOOT	580
48102100	AGGREGATE WEDGE SHOULDER, TYPE B	TON	3,830
60609800	COMBINATION CONCRETE CURB & GUTTER, TYPE M-6.18	FOOT	580
△ 63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	1,200
67100100	MOBILIZATION	L. SUM	1
△ 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	202
LR400005	CIR-FDR EMULSIFIED ASPHALT	GALLON	46,464
LR400740	COLD IN-PLACE RECYCLING, 4"	SQ. YD	33,237
LR403300	SURFACE PROFILE MILLING	SQ. YD	33,237
△ LR631020	TRAFFIC BARRIER TERMINAL, TYPE 1	EACH	12
X4401198	HMA SURFACE REMOVAL, VARIABLE DEPTH	SQ. YD	600
X7010216	TRAFFIC CONTROL AND PROTECTION (SPECIAL)	L. SUM	1
Z0055300	RUMBLE STRIP	EACH	12

△ SPECIALTY ITEMS

C.H. 39 (ROPP RD) PAVING SCHEDULE		
4" CIR	1 1/4" BINDER COURSE	1 1/2" SURFACE COURSE
1+00 - 52+50 (22')	0+50 - 53+00 (22')	0+00 - 81+54 (22')
56+75 - 72+25 (22')	56+25 - 72+75 (22')	83+80 - 162+30 (22')
93+00 - 161+30 (22')	92+50 - 161+80 (22')	

	BINDER	INCIDENTAL	SURFACE
PG GRADE	PG 64-22	PG 64-22	PG 64-22
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
MIXTURE WEIGHT	112	112	112
QUALITY MANAGEMENT PROGRAM	QC/QA	QC/QA	QC/QA
METHOD	CORRELATION	--	CORRELATION

STATE STANDARD DETAILS

- 000001-08 STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
- 001006 DECIMAL OF AN INCH AND OF A FOOT
- 701001-02 OFF-RD OPERATIONS, 2L, 2W, MORE THAN 15' (4.5 m) AWAY
- 701006-05 OFF-RD OPERATIONS, 2L, 2W, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE
- 701011-04 OFF-RD MOVING OPERATIONS, 2L, 2W, DAY ONLY
- 701201-05 LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS ≥ 45 MPH
- 701301-04 LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
- 701306-04 LANE CLOSURE, 2L, 2W, SLOW MOVING OPERATIONS DAY ONLY, FOR SPEEDS ≥ 45 MPH
- 701501-06 URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
- 701901-08 TRAFFIC CONTROL DEVICES
- 781001-04 TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS
- BLR18-6 TRAFFIC CONTROL DEVICES - DAY LABOR MAINTENANCE
- BLR23-4 TRAFFIC BARRIER TERMINAL TYPE 1
- BLR28 CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER

GUARDRAIL SCHEDULE				
LOCATION	SPBGR TY A 6FT POSTS	TRAF BAR TERM T1	NOTES	
			63000001	LR631020
STATION TO STATION	OFFSET	FOOT	EACH	
EXISTING CONCRETE BOX CULVERT				
68+50 TO 70+75	LT	175	2	MATCH EXISTING GUARDRAIL LENGTHS AND TERMINAL LOCATIONS LT & RT.
67+80 TO 70+05	RT	175	2	
EXISTING BRIDGE (STR# 057-0105)				
NO IMPROVEMENTS				
EXISTING CONCRETE BOX CULVERT				
105+00 TO 107+75	LT	225	2	MATCH EXISTING GUARDRAIL LENGTHS AND TERMINAL LOCATIONS LT & RT.
104+05 TO 106+80	RT	225	2	
EXISTING CONCRETE BOX CULVERT				
115+95 TO 118+45	LT	200	2	MATCH EXISTING GUARDRAIL LENGTHS AND TERMINAL LOCATIONS LT & RT
115+35 TO 117+85	RT	200	2	

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

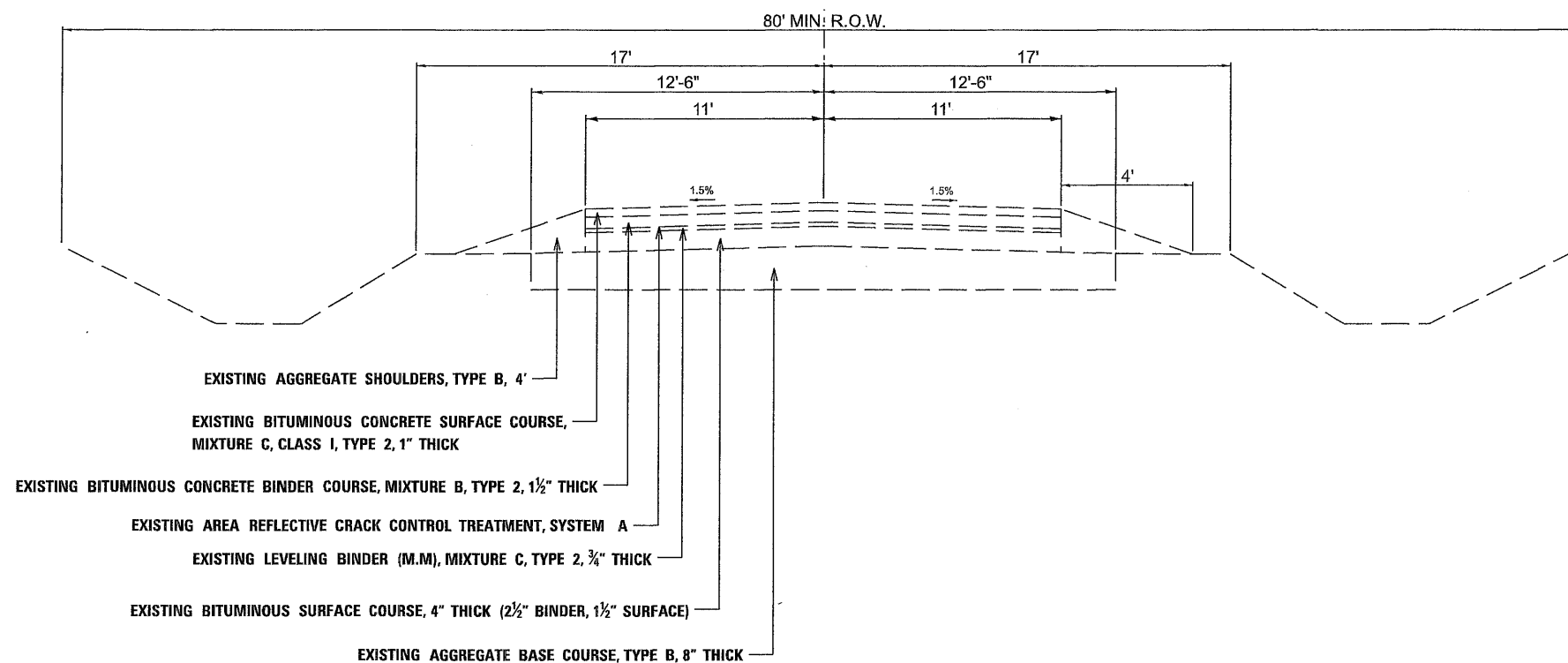
SUMMARY OF
QUANTITIES

SCALE: SHEET 2 OF 10 SHEETS STA. TO STA.

F.A.S RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1473	20-00056-11-RS	MCLEAN	10	2
CONTRACT NO. 91603				
ILLINOIS FED. AID PROJECT				

EXISTING TYPICAL CROSS SECTION

SEC 20-00056-11-RS
 ROPP RD (C.H. 39)
 STA. 0+00 - STA. 81+54
 STA. 83+80 - STA. 162+30
 (NOT TO SCALE)



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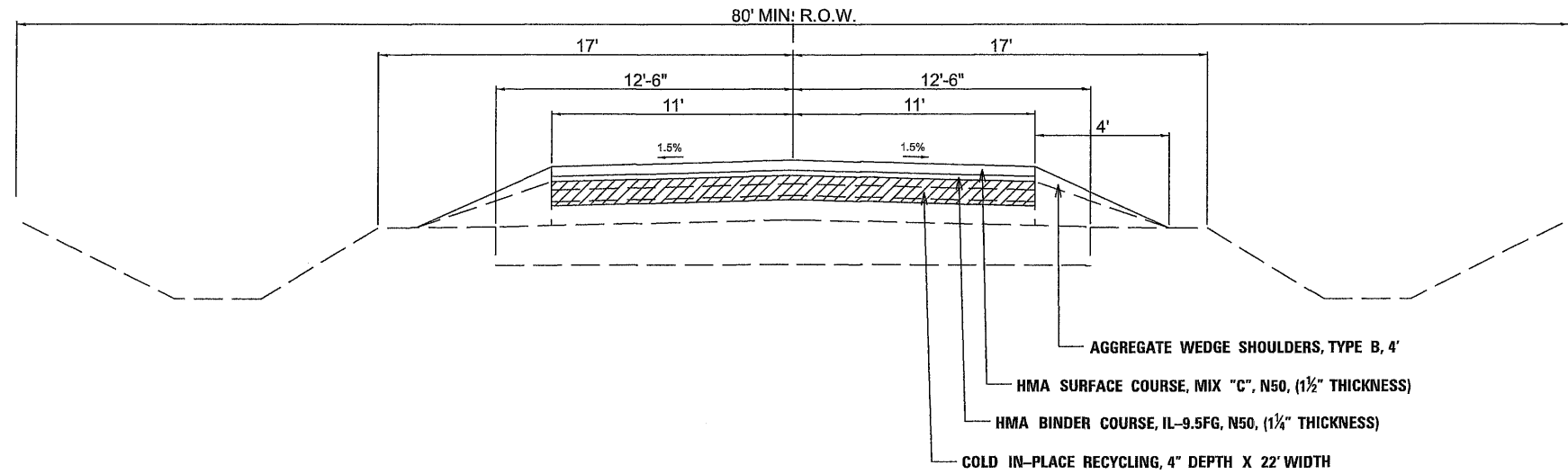
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

EXISTING TYPICAL CROSS SECTIONS	
SCALE:	SHEET 3 OF 10 SHEETS STA. TO STA.

F.A.S RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1473	20-00056-11-RS	MCLEAN	10	3
CONTRACT NO. 91603				
ILLINOIS FED. AID PROJECT				

PROPOSED TYPICAL CROSS SECTION

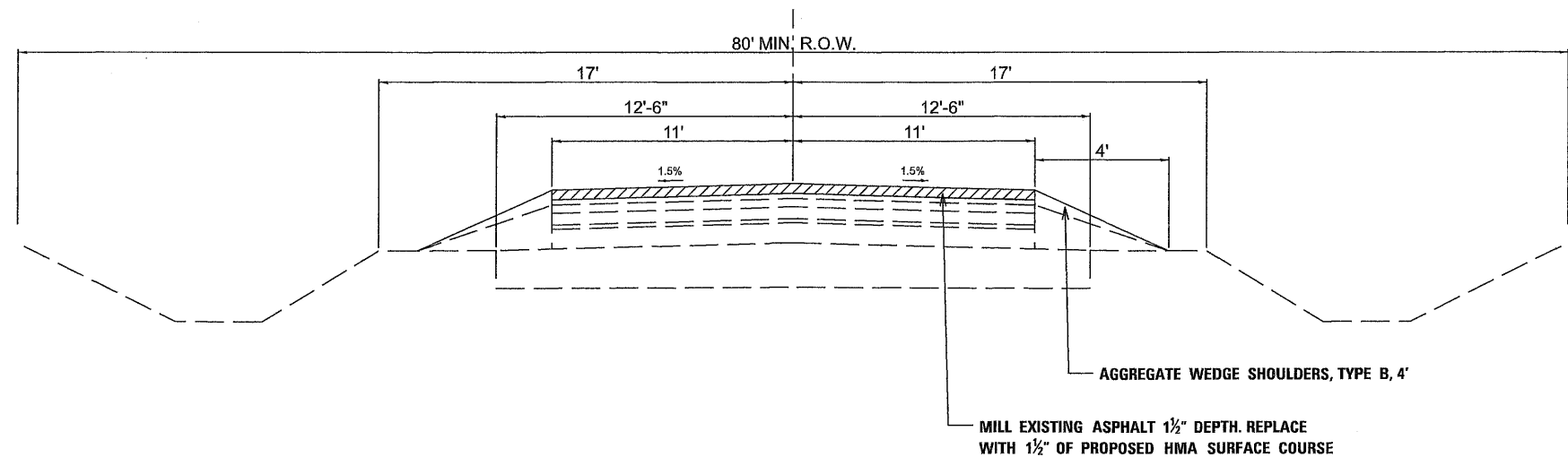
SEC 20-00056-11-RS
 ROPP RD (C.H. 39)
 STA. 0+00 - STA. 53+00
 STA. 56+25 - STA. 72+75
 STA. 92+50 - STA. 162+30
 (NOT TO SCALE)



SEC. 20-00056-11-RS: ROPP ROAD (CH 39)			
STRUCTURAL DESIGN DATA 80,000#			
CLASS II ROAD DESIGN PERIOD 20 YEARS			
CURRENT A.D.T.	1800		
STRUCTURAL DESIGN TRAFFIC:	1989	YEAR:	2040
PERCENT OF DESIGN TRAFFIC IN DESIGN LANE:			
P.C.	88%	S.U.	7%
M.U.	5%		
P.C.	1750	S.U.	139
M.U.	99		
MINIMUM SOIL SUPPORT:	IBR=		3.0
TRAFFIC FACTOR (T.F.)=	0.541		
STRUCTURAL NUMBER (D _t)=	3.75		
PAVEMENT STRUCTURE MATERIALS:			
SURFACE: PROPOSED HMA PAVEMENT	2.75 @ 0.40	a1=	1.10
BASE: COLD-IN-PLACE RECYCLING	4 @ 0.28	a2=	1.12
BASE: EXISTING HMA PAVEMENT	3.25 @ 0.23	a2=	0.75
SUBBASE: EXISTING AGGREGATE BASE COURSE	8 @ 0.10	a3=	0.80
PROPOSED D _t TOTAL			3.77

PROPOSED TYPICAL CROSS SECTION

SEC 20-00056-11-RS
 ROPP RD (C.H. 39)
 STA. 53+00 - STA. 56+25
 STA. 72+75 - STA. 81+54
 STA. 83+80 - STA. 92+50
 (NOT TO SCALE)



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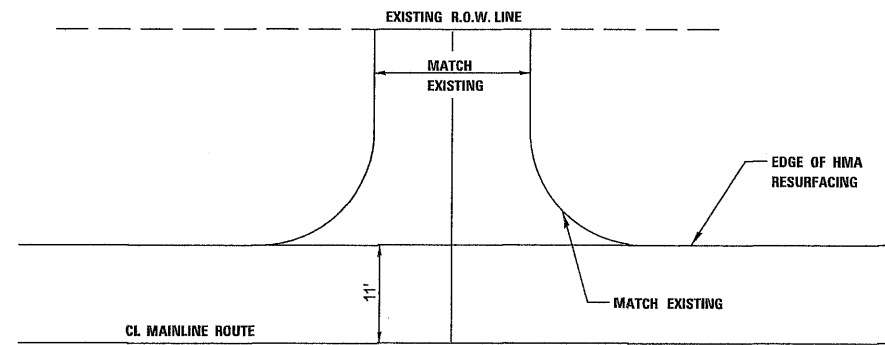
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

PROPOSED TYPICAL
 CROSS SECTIONS

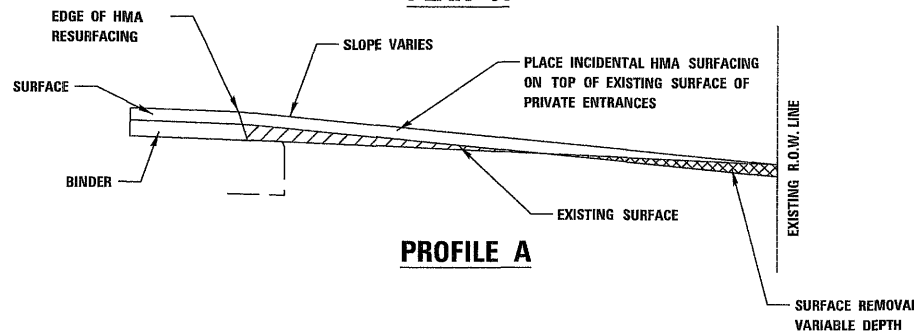
SCALE: SHEET 4 OF 10 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1473	20-00056-11-RS	MCLEAN	10	4
CONTRACT NO. 91603				
ILLINOIS FED. AID PROJECT				

TYPICAL RURAL PRIVATE ENTRANCE



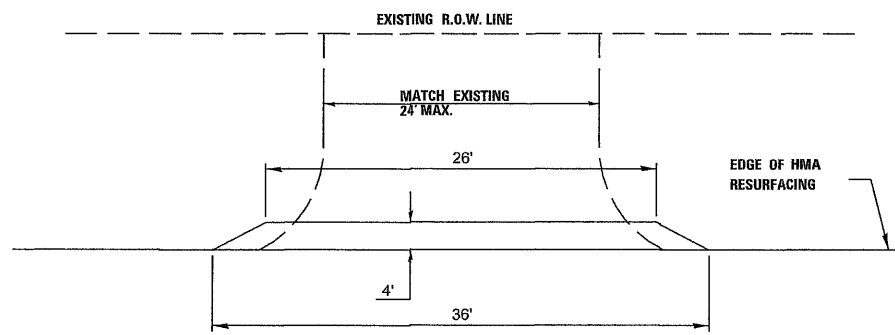
PLAN A



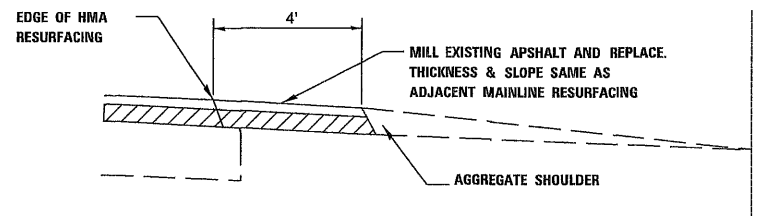
PROFILE A

TYPICAL FIELD ENTRANCE

13.8 SQ. YDS (TYP.)



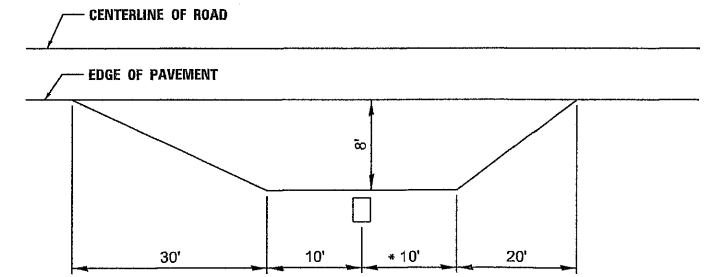
PLAN B



PROFILE B

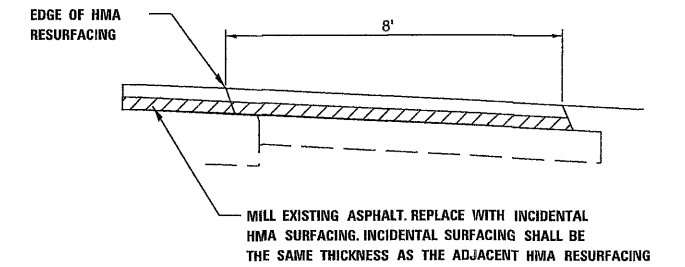
TYPICAL RURAL MAILBOX TURNOUT

41 SQ. YD EACH (TYP.)



*NOTE: MULTIPLE MAILBOX CLUSTERS TO BE EXTENDED 2' FOR EACH ADDITIONAL MAILBOX

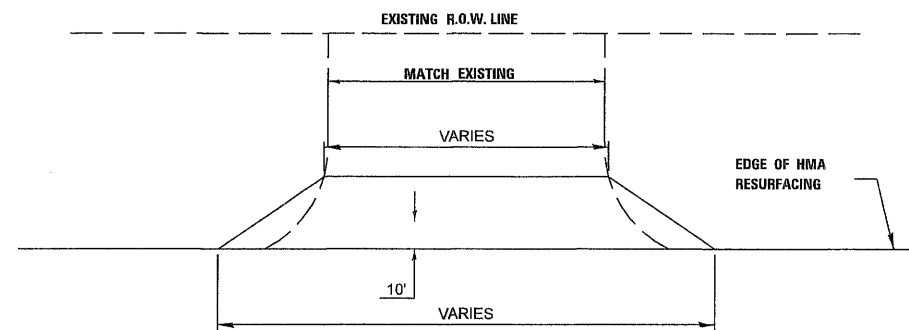
PLAN C



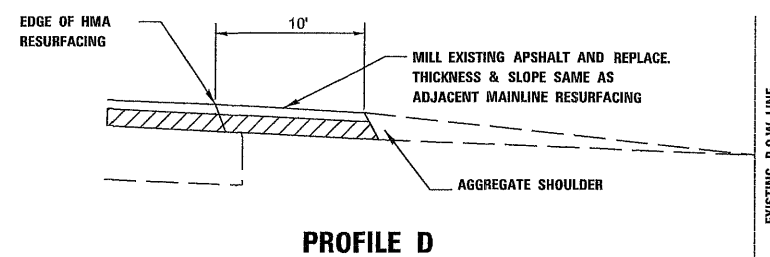
PROFILE C

COMMERCIAL ENTRANCE

1 AT 39 SQ. YDS
1 AT 53 SQ. YDS

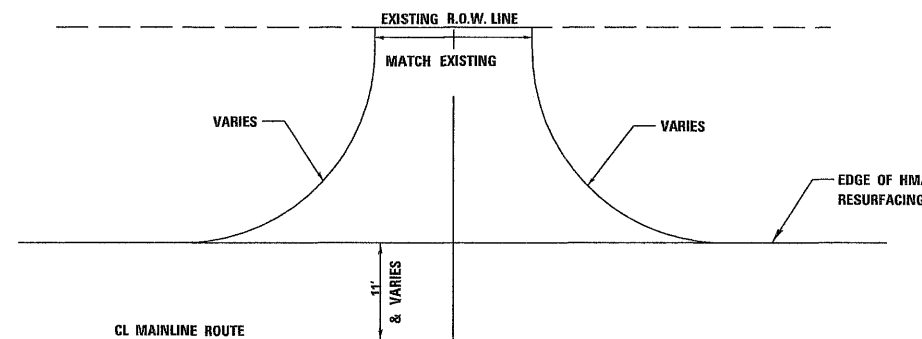


PLAN D

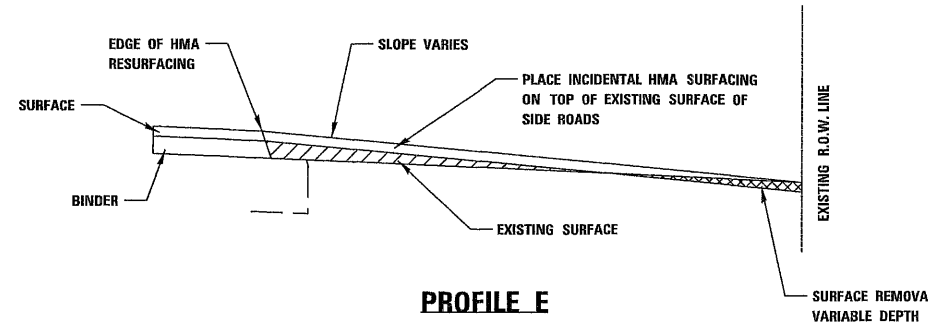


PROFILE D

TYPICAL SIDE ROAD DETAIL

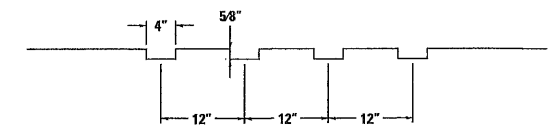


PLAN E



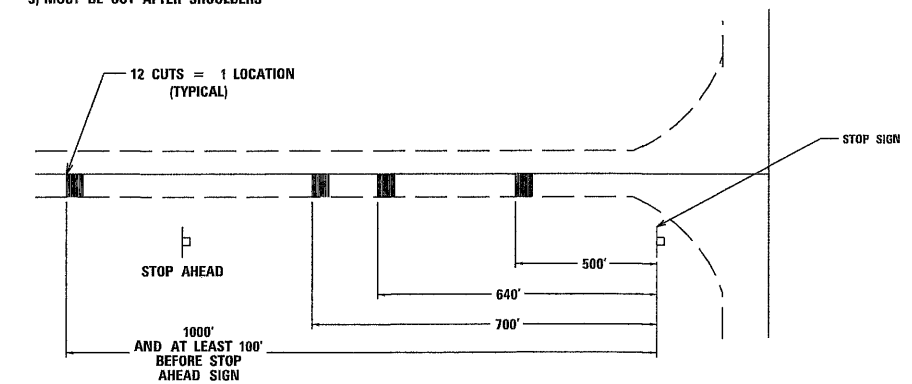
PROFILE E

SAW CUT RUMBLE STRIP STANDARD



NOTES:

- 1) SAWCUTS 4" WIDE X 5/8" DEEP ON 12" CENTERS
- 2) MEASUREMENTS FROM STOP SIGN TO FAR END OF RUMBLE STRIP
- 3) MUST BE CUT AFTER SHOULDERS



NOTES:

1. ALL TEMPORARY AND PERMANENT PAVEMENT STRIPING WILL BE DONE BY OTHERS.
2. ALL FIELD ENTRANCES SHALL BE CONSTRUCTED WITH THE EXTENDABLE SCREED WIDENER AND PAID FROM HOT-MIX ASPHALT BINDER AND SURFACE COURSES.
3. ALL SIDE ROAD RETURNS, PRIVATE ENTRANCES, COMMERCIAL ENTRANCES AND RURAL MAILBOX TURNOUTS ARE TO BE CONSTRUCTED AND PAID FROM INCIDENTAL HOT-MIX ASPHALT SURFACING.
4. AGGREGATE SHOULDERS SHALL BE PLACED ALONG ALL SIDEROAD RETURN RADII AND SHALL BE PLACED ALONG AND BEHIND ALL FIELD ENTRANCES, GUADRAIL AND GUADRAIL RUNOUTS, MAILBOX TURNOUTS AND ALL PRIVATE AND COMMERCIAL ENTRANCES UNLESS SPECIFIED BY THE RESIDENT ENGINEER.

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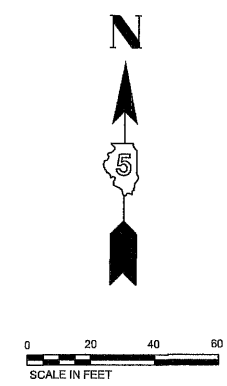
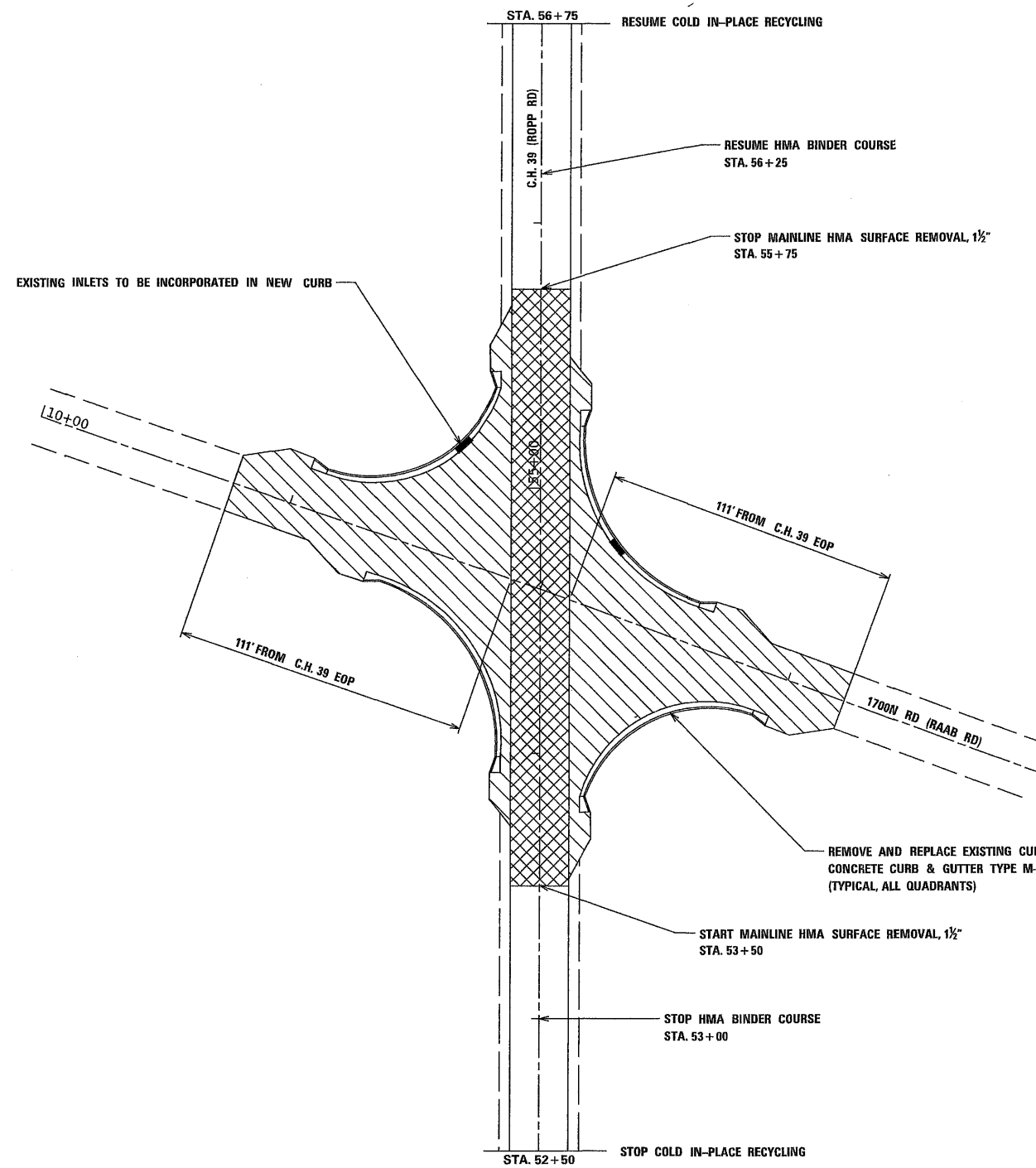
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

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE:		SHEET	OF	SHEETS	STA.	TO	STA.
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TYPICAL DETAILS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1473	20-00056-11-RS	MCLEAN	10	5
CONTRACT NO. 91603				
ILLINOIS FED. AID PROJECT				



-  HMA SURFACE REMOVAL 1½"
 REPLACE WITH 1½" INCIDENTAL HMA SURFACE COURSE
 WEST SIDE APPROXIMATELY 598 SQ YDS
 EAST SIDE APPROXIMATELY 598 SQ YDS
-  HMA SURFACE REMOVAL 1½"
 REPLACE WITH 1½" HMA SURFACE COURSE
 TO BE PAID FOR USING HMA SURFACE COURSE QUANTITY
 APPROXIMATELY 550 SQ YDS

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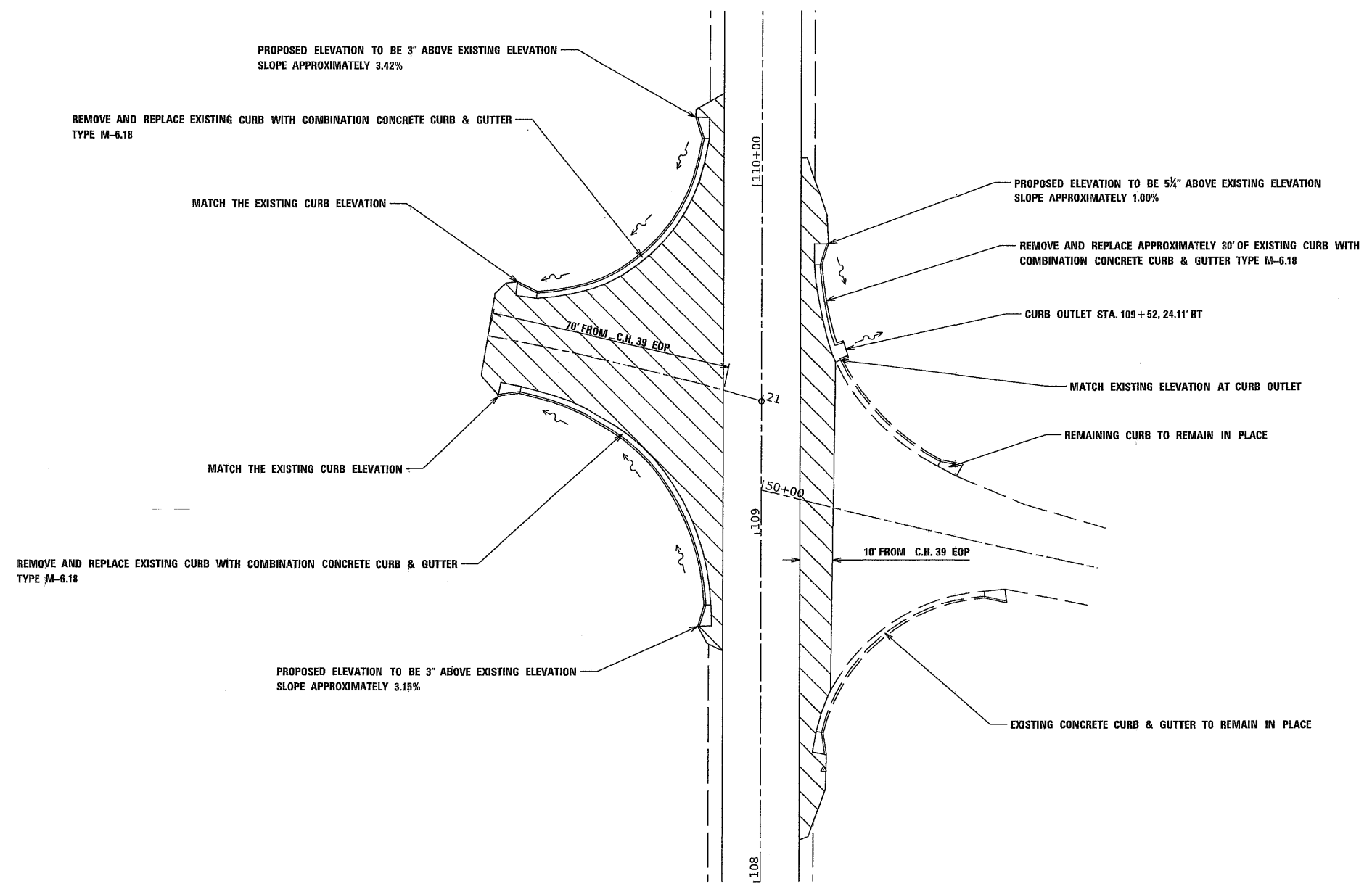
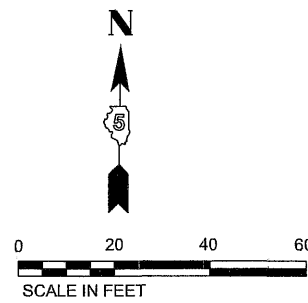
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**RAAB ROAD
 INTERSECTION DETAIL**

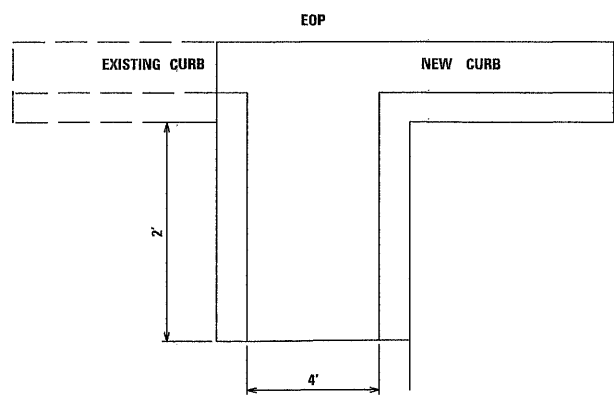
SCALE: SHEET 6 OF 10 SHEETS STA. 52+50 TO STA. 56+75

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1473	20-00056-11-RS	MCLEAN	10	6
CONTRACT NO. 91603				
ILLINOIS FED. AID PROJECT				



HMA SURFACE REMOVAL VARIABLE DEPTH
 REPLACE WITH INCIDENTAL HMA SURFACING
 WEST SIDE APPROXIMATELY 411 SQ YDS
 EAST SIDE APPROXIMATELY 165 SQ YDS

CURB OUTLET DETAIL



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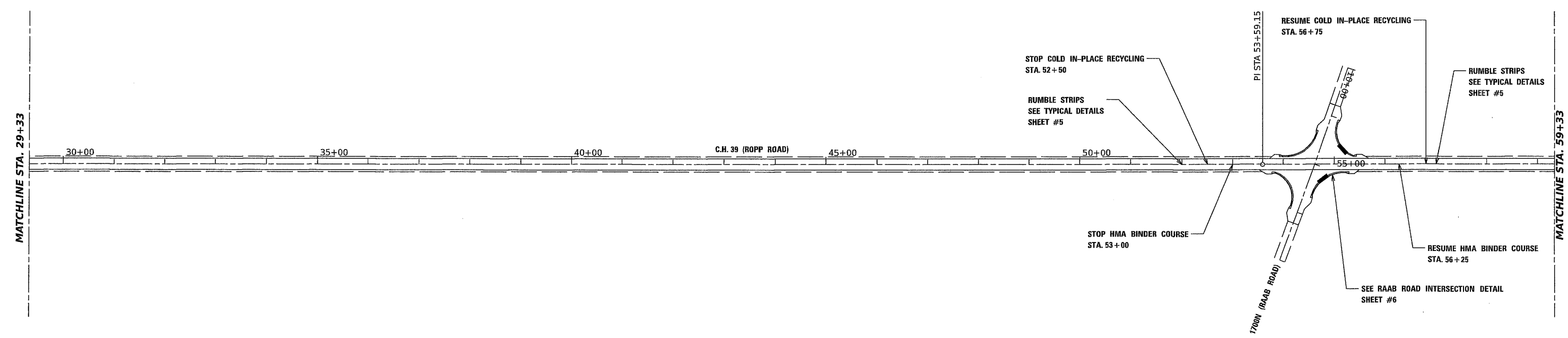
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

NORTHTOWN INTERSECTION
DETAIL

SCALE: SHEET 7 OF 10 SHEETS STA. 108+00 TO STA. 110+50

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1473	20-00056-11-RS	MCLEAN	10	7
CONTRACT NO. 91603				
ILLINOIS FED. AID PROJECT				



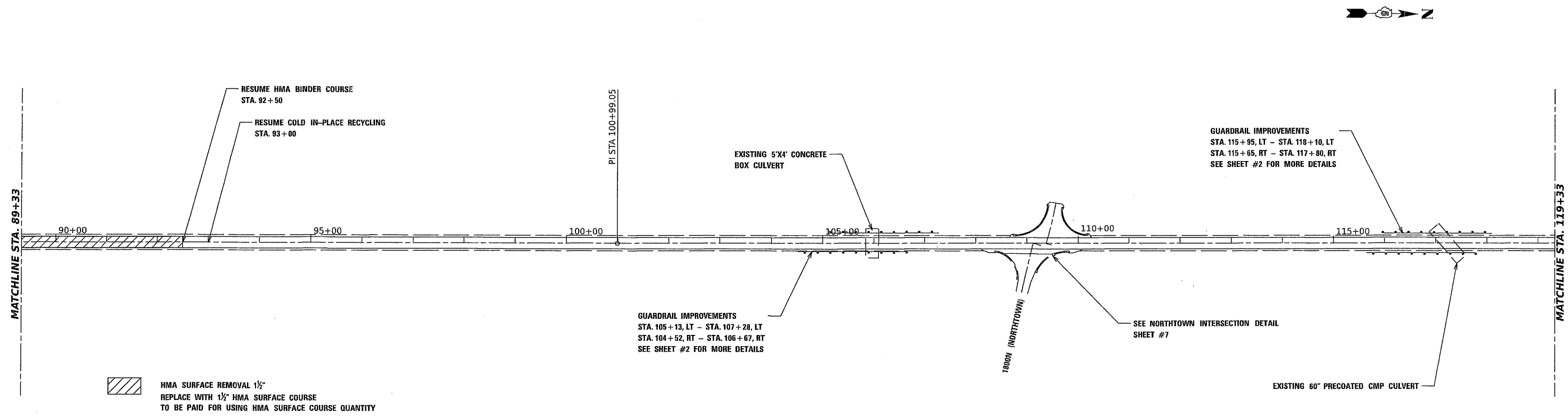
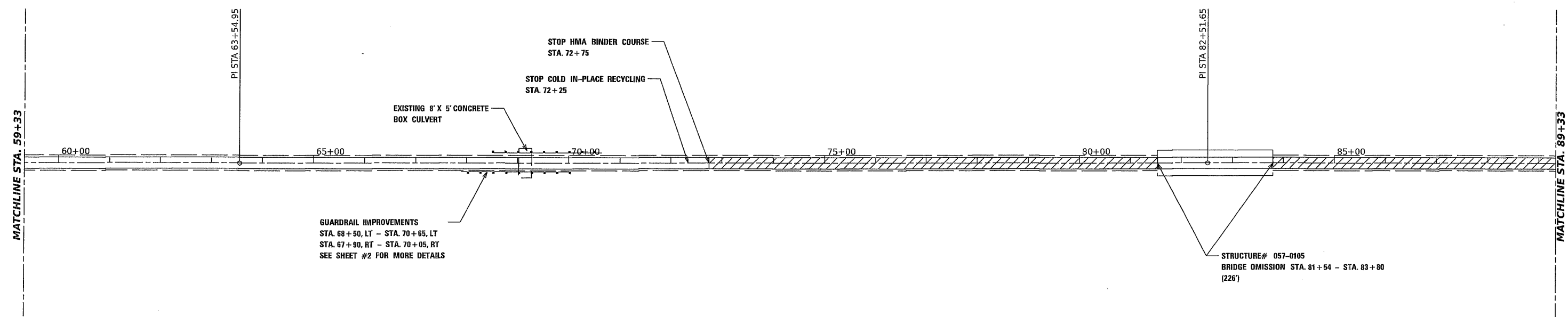
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PLAN VIEW	
SCALE:	SHEET 8 OF 10 SHEETS
STA. 0+00	TO STA. 59+33

F.A.S. RTE. 1473	SECTION 20-00056-11-R5	COUNTY MCLEAN	TOTAL SHEETS 10	SHEET NO. 8
CONTRACT NO. 91603				
ILLINOIS FED. AID PROJECT				



HMA SURFACE REMOVAL 1 1/2"
REPLACE WITH 1 1/2" HMA SURFACE COURSE
TO BE PAID FOR USING HMA SURFACE COURSE QUANTITY

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PLAN VIEW			
SCALE:	SHEET 9	OF 10 SHEETS	STA. 59+33 TO STA. 119+33

F.A.S. RTE. 1473	SECTION 20-00056-11-RS	COUNTY MCLEAN	TOTAL SHEETS 10	SHEET NO. 9
ILLINOIS FED. AID PROJECT				

CONTRACT NO. 91603



MATCHLINE STA. 119+33

120+00 125+00 130+00 135+00 140+00 145+00

PI STA 141+52.05

MATCHLINE STA. 149+33



MATCHLINE STA. 149+33

150+00 155+00 160+00

STOP HMA BINDER COURSE
STA. 161+80
STOP COLD IN-PLACE RECYCLING
STA. 161+30

IMPROVEMENT ENDS STA. 162+30

1900N RD (ZIEBARTH)

POT STA 163+52.05

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN
VIEW

SCALE: SHEET 10 OF 10 SHEETS STA. 119+33 TO STA. 162+30

F.A.S RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1473	20-00056-11-RS	MCLEAN	10	10
CONTRACT NO. 91603				
ILLINOIS FED. AID PROJECT				