

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
494	07-00058-06-WR	McLEAN	8	1
FED. ROAD DIST. NO. 5		ILLINOIS	CONTRACT NO. 91403	

**INDEX OF SHEETS**

1. Cover Sheet
2. Existing Typical Cross Sections
3. Proposed Typical Cross Sections
- 4-5. Details
- 6-8. Plan Sheets

**STATE STANDARD DETAILS**

701001-02	OFF-RD OPERATIONS, 2L, 2W, MORE THAN 15' AWAY
701006-03	OFF-RD OPERATIONS, 2L, 2W, 15' TO 24" FROM PAVEMENT EDGE
701011-02	OFF-RD MOVING OPERATIONS, 2L, 2W, DAY ONLY
701201-03	LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS > 45 MPH
701301-03	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701306-02	LANE CLOSURE, 2L, 2W, SLOW MOVING OPERATIONS DAY ONLY, FOR SPEEDS > 45 MPH
701901-01	TRAFFIC CONTROL DEVICES
781001-03	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS
BLR 23-3	TRAFFIC BARRIER TERMINAL TYPE 1
BLR 26-1	STEEL PLATE BEAM GUARDRAIL (700 mm) 27-1/2" HEIGHT

**SUMMARY OF QUANTITIES**

ITEM NUMBER	ITEM	UNIT	QUANTITY
* 40600100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	3,100
* 40600300	AGGREGATE (PRIME COAT)	TON	500
* 40600625	LEVELING BINDER (MACHINE METHOD), N50	TON	900
40600982	HOT-MIX ASPHALT SURFACE REMOVAL-BUTT JOINT	SQ YD	577
40600990	TEMPORARY RAMP	SQ YD	122
* 40603080	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	TON	3,600
* 40603310	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	TON	2,200
* 40800010	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	200
* 40800030	AGGREGATE (PRIME COAT)	TON	15
* 40800050	INCIDENTAL HOT-MIX ASPHALT SURFACING	TON	450
* 44300300	AREA REFLECTIVE CRACK CONTROL TREATMENT, SYSTEM A	SQ YD	30,214
* 48101200	AGGREGATE SHOULDERS, TYPE B	TON	2650
* 63000002 Δ	STEEL PLATE BEAM GUARD RAIL, TYPE A, 6.75 POSTS	FOOT	100
67100100	MOBILIZATION	L SUM	1
78100100 Δ	RAISED REFLECTIVE PAVEMENT MARKER	EACH	156
* LR631020 Δ	TRAFFIC BARRIER TERMINAL, TYPE 1	EACH	2
70103700	TRAFFIC CONTROL COMPLETE	L SUM	1

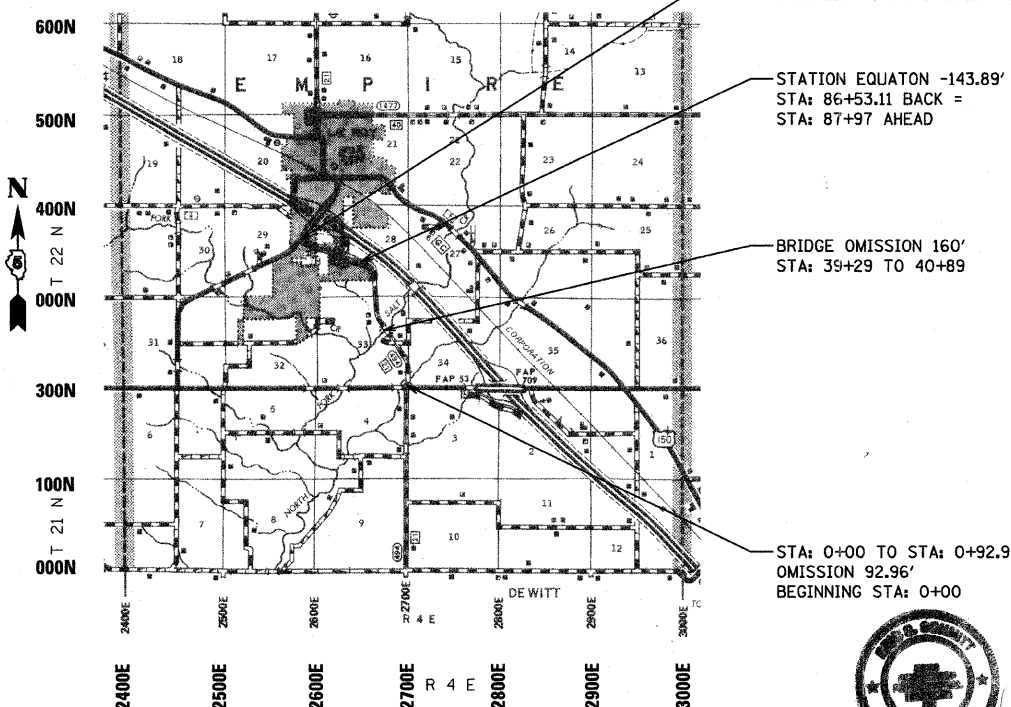
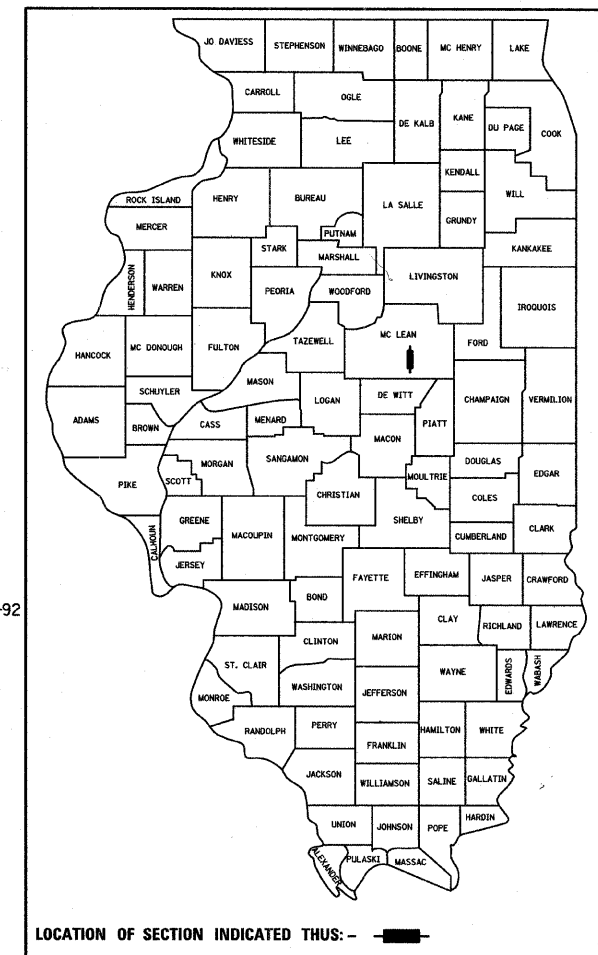
\* SEE SPECIAL PROVISIONS  
 Δ SPECIALTY ITEMS

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

**PROJECT ENGINEER**  
**PROJECT MANAGER**

**CONTRACT NO. 91403**

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**  
**DIVISION OF HIGHWAYS**  
**PLANS FOR PROPOSED**  
**McLEAN COUNTY**  
**FEDERAL AID SECONDARY (ARA)**  
**HORSE FARM RD (CH 21)**  
**F.A.S. ROUTE 494 SECTION 07-00058-06-WR**  
**PROJECT #ARA-0494(102)**  
**JOB #C-95-330-08**



APPROXIMATE SCALE: 0 1 MILE

- NOTE: THE TOTAL LENGTH OF THE PROPOSED PROJECT IS 12,792' FEET WITH A NET LENGTH OF 12,360.15 FEET (2.341 MILES)
- NOTE: THESE PLANS MEET THE MINIMUM REQUIREMENTS FOR A 3R IMPROVEMENT.
- NOTE: CURRENT ADT: 2800  
 FUNCTIONAL CLASSIFICATION: MAJOR COLLECTOR
- NOTE: THE PLANS FOR SECTION 07-00058-06-WR ARE THOSE AS APPROVED IN SECTION 82-00058-01-AS.

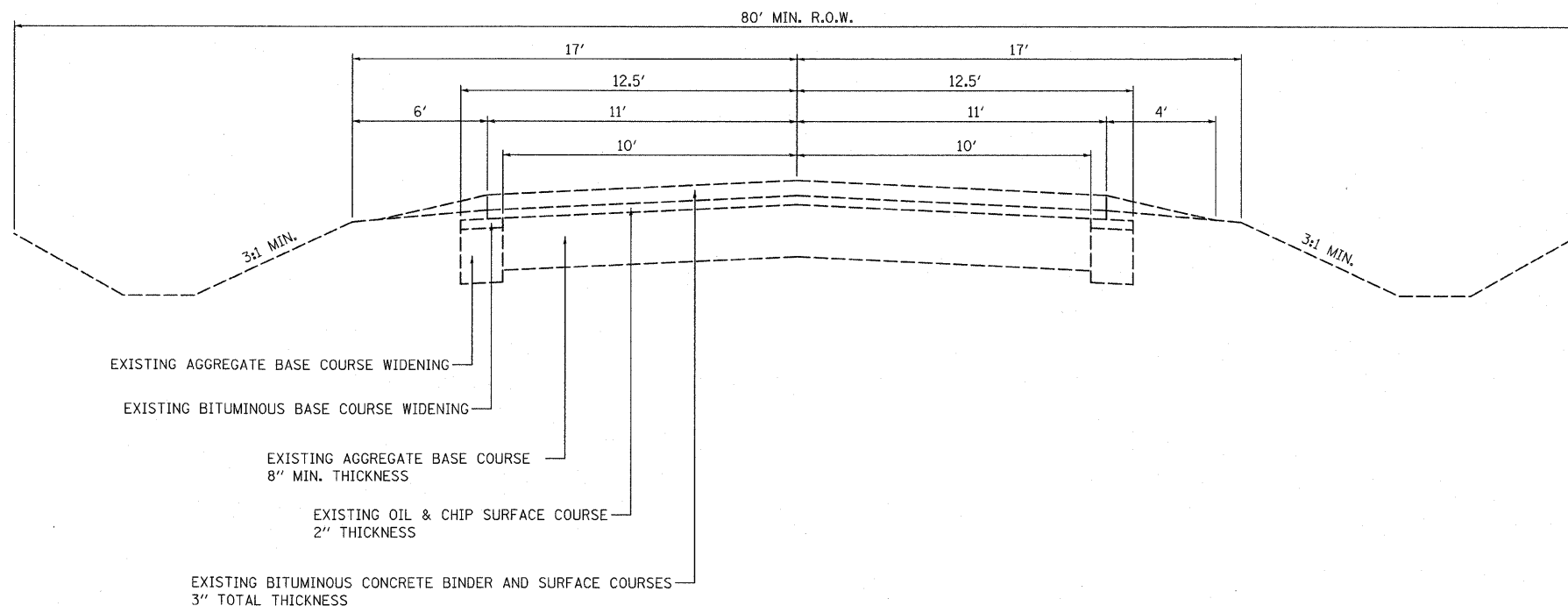
*[Signature]* 4/16/09  
 ILLINOIS PROFESSIONAL ENGINEER #55820  
 EXPIRES 11-30-09

McLEAN COUNTY HIGHWAY DEPARTMENT	
APPROVED	<i>[Signature]</i> 4/16/09 COUNTY ENGINEER
PASSED	<i>[Signature]</i> 4/27/09 DISTRICT FIVE ENGINEER OF LOCAL ROADS & STREETS
Releasing For Bid Based on Limited Review	<i>[Signature]</i> 4/20/09 DEPUTY DIRECTOR OF HIGHWAYS, REGION THREE ENGINEER
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	

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

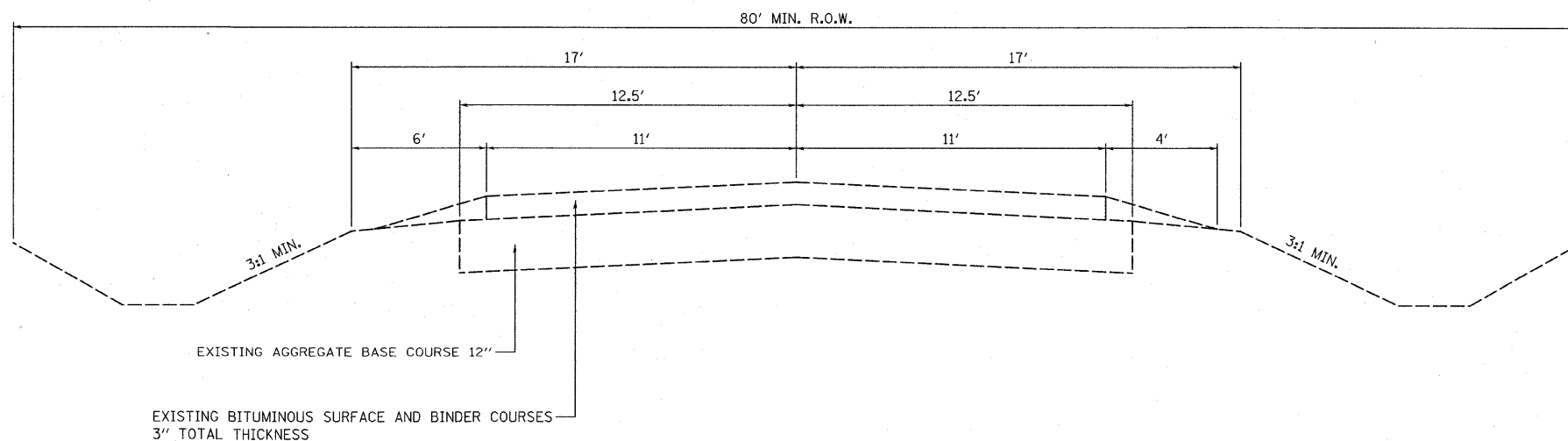
EXISTING TYPICAL CROSS SECTION 1

SEC. 07-00058-06-WR  
 HORSEFARM RD (CH 21)  
 STA: 0+92.96 TO 17+50  
 STA: 52+50 TO 75+00  
 STA: 87+97 TO 99+79



EXISTING TYPICAL CROSS SECTION 2

SEC. 07-00058-06-WR  
 HORSEFARM RD (CH 21)  
 STA: 17+50 TO 52+50  
 STA: 75+00 TO 87+97  
 STA: 99+79 TO 127+57



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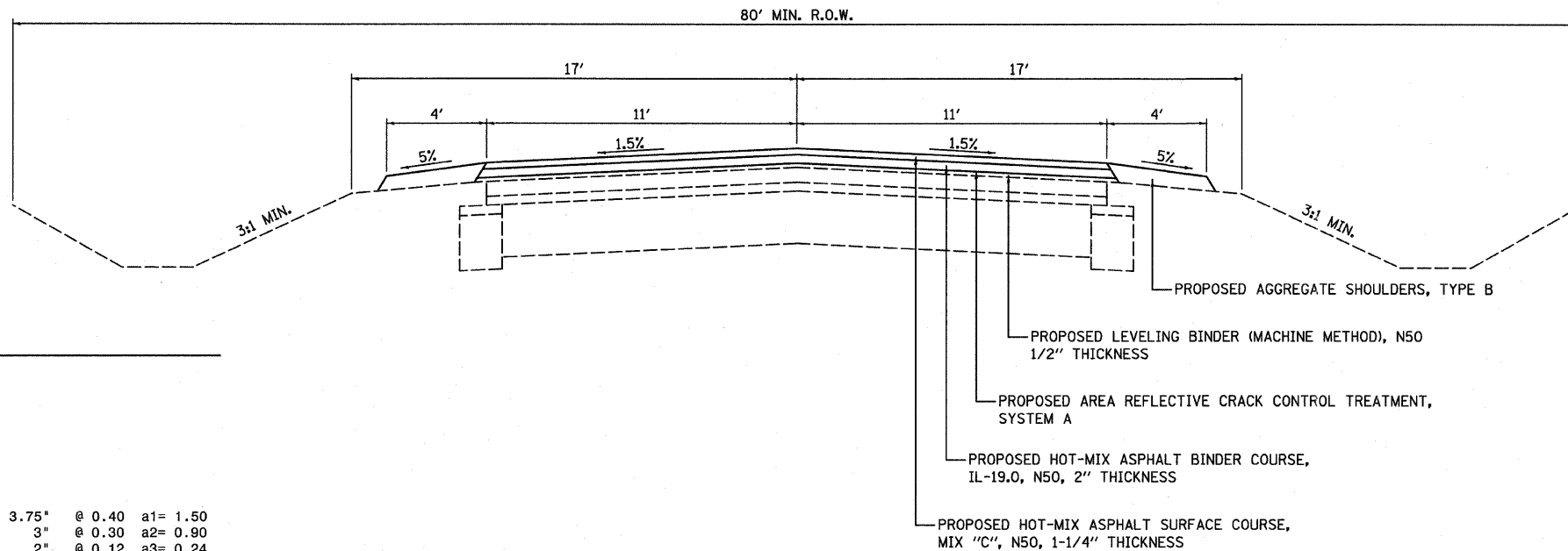
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

<b>EXISTING CROSS SECTIONS</b>			
SCALE: NO SCALE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
494	07-00058-06-WR	MOLEAN	8	2
CONTRACT NO. 91403				
FED. ROAD DIST. NO. 5 ILLINOIS FED. AID PROJECT				

### PROPOSED TYPICAL CROSS SECTION 1

SEC. 07-00058-06-WR  
 HORSEFARM RD (CH 21)  
 STA: 0+92.96 TO 17+50  
 STA: 52+50 TO 75+00  
 STA: 87+97 TO 99+79



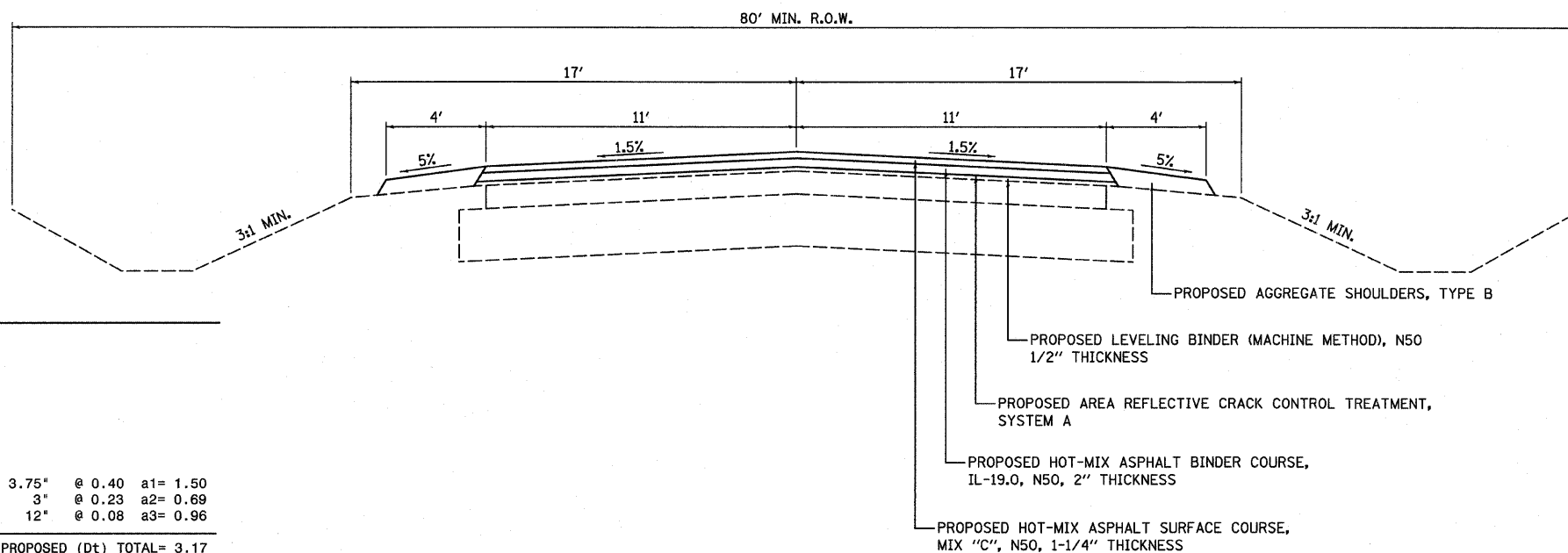
**STRUCTURAL DESIGN DATA 80,000# PROPOSED TYPICAL 1**

CLASS III ROAD DESIGN PERIOD 20 YEARS  
 STRUCTURAL DESIGN TRAFFIC: 3416 YEAR: 2018  
 PERCENT OF DESIGN TRAFFIC IN DESIGN LANE:  
 P.C. 88% S.U. 7% M.U. 5%  
 P.C. 3006 S.U. 239 M.U. 171  
 MINIMUM SOIL SUPPORT: IBR= 3.0  
 TRAFFIC FACTOR (T.F.)= 0.922  
 STRUCTURAL NUMBER (Dt): 2.9  
 PAVEMENT STRUCTURE MATERIALS:  
 SURFACE: PROPOSED HOT-MIX ASPHALT 3.75" @ 0.40 a1= 1.50  
 BASE: EXISTING BITUMINOUS CONCRETE 3" @ 0.30 a2= 0.90  
 BASE: EXISTING OIL & CHIP SURFACE TREATMENT 2" @ 0.12 a3= 0.24  
 SUBBASE: EXISTING AGGREGATE BASE COURSE 8" @ 0.06 a4= 0.48

PROPOSED (Dt) TOTAL= 3.12

### PROPOSED TYPICAL CROSS SECTION 2

SEC. 07-00058-06-WR  
 HORSEFARM RD (CH 21)  
 STA: 17+50 TO 52+50  
 STA: 75+00 TO 87+97  
 STA: 99+79 TO 127+57



**STRUCTURAL DESIGN DATA 80,000# PROPOSED TYPICAL 2**

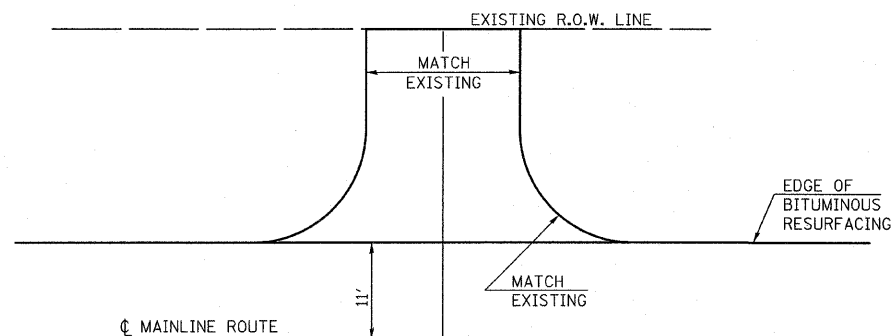
CLASS III ROAD DESIGN PERIOD 20 YEARS  
 STRUCTURAL DESIGN TRAFFIC: 3416 YEAR: 2018  
 PERCENT OF DESIGN TRAFFIC IN DESIGN LANE:  
 P.C. 88% S.U. 7% M.U. 5%  
 P.C. 3006 S.U. 239 M.U. 171  
 MINIMUM SOIL SUPPORT: IBR= 3.0  
 TRAFFIC FACTOR (T.F.)= 0.922  
 STRUCTURAL NUMBER (Dt): 2.9  
 PAVEMENT STRUCTURE MATERIALS:  
 SURFACE: PROPOSED HOT-MIX ASPHALT 3.75" @ 0.40 a1= 1.50  
 BASE: EXISTING BITUMINOUS CONCRETE 3" @ 0.23 a2= 0.69  
 SUBBASE: EXISTING AGGREGATE BASE COURSE 12" @ 0.08 a3= 0.96

PROPOSED (Dt) TOTAL= 3.17

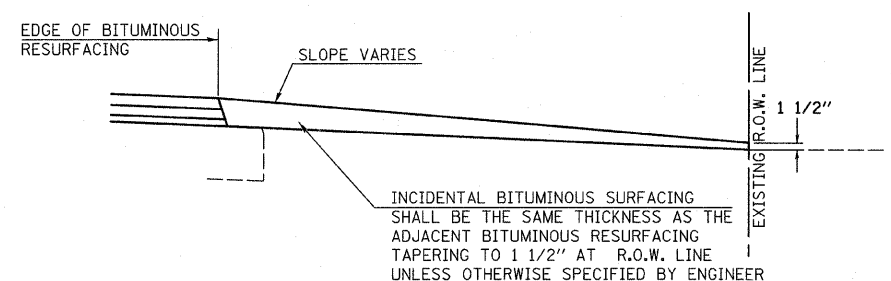
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TYPICAL RURAL PRIVATE ENTRANCE

8 @ 65.8 SQ YDS EACH



PLAN F

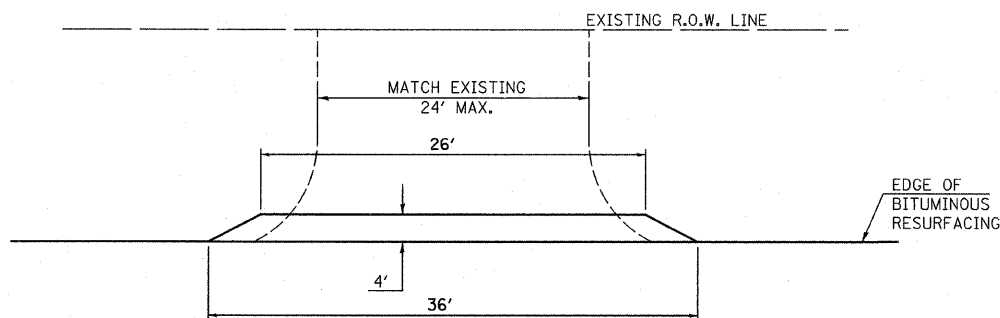


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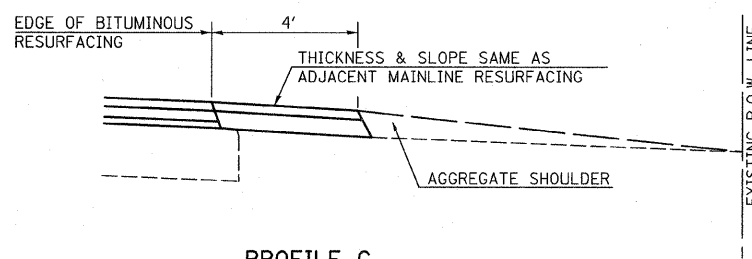
INCIDENTAL BITUMINOUS SURFACING SHALL BE THE SAME THICKNESS AS THE ADJACENT BITUMINOUS RESURFACING TAPERING TO 1 1/2" AT R.O.W. LINE UNLESS OTHERWISE SPECIFIED BY ENGINEER

TYPICAL FIELD ENTRANCE

14 @ 13.8 SQ YDS EACH



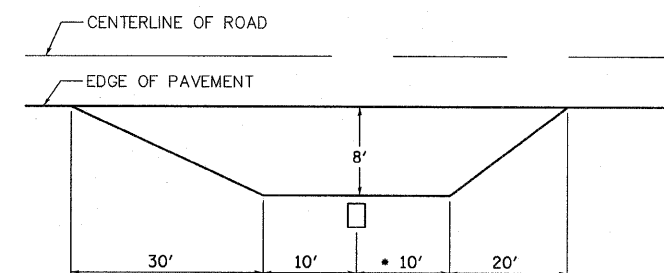
PLAN G



PROFILE G

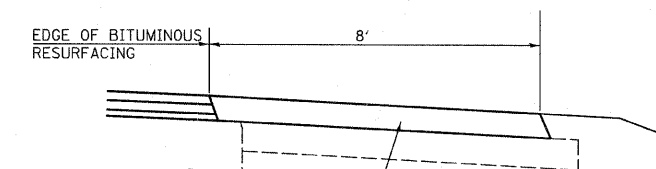
TYPICAL RURAL MAILBOX TURNOUT

7 @ 41 SQ YD EACH



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

PLAN I



PROFILE I

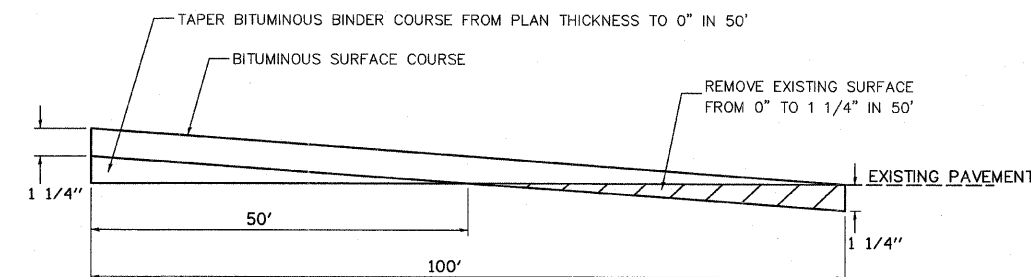
INCIDENTAL BITUMINOUS SURFACING SHALL BE THE SAME THICKNESS AS THE ADJACENT BITUMINOUS RESURFACING

NOTES:

1. ALL TEMPORARY & 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, GUADRIL AND GUADRIL RUNOUTS, MAILBOX TURNOUTS AND ALL PRIVATE AND COMMERCIAL ENTRANCES UNLESS SPECIFIED BY THE RESIDENT ENGINEER.
5. ALL EXISTING GUADRIL WILL BE ADJUSTED FOR HEIGHT AND TURNOUT BY THE McLEAN COUNTY HIGHWAY DEPARTMENT FOLLOWING THE PLACEMENT OF THE AGGREGATE SHOULDERS.

TYPICAL BITUMINOUS SURFACE REMOVAL-BUTT JOINT

- 1 @ 122.2 SQ YDS STA: 0+92.96 (BEGINNING STATION)
- 1 @ 122.2 SQ YDS STA: 39+29 (BRIDGE)
- 1 @ 122.2 SQ YDS STA: 40+89 (BRIDGE)
- 1 @ 122.2 SQ YDS STA: 127+57 (ENDING STATION)



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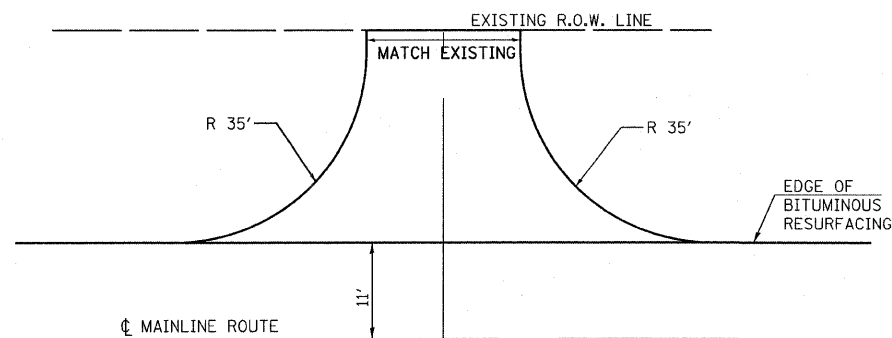
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

DETAILS

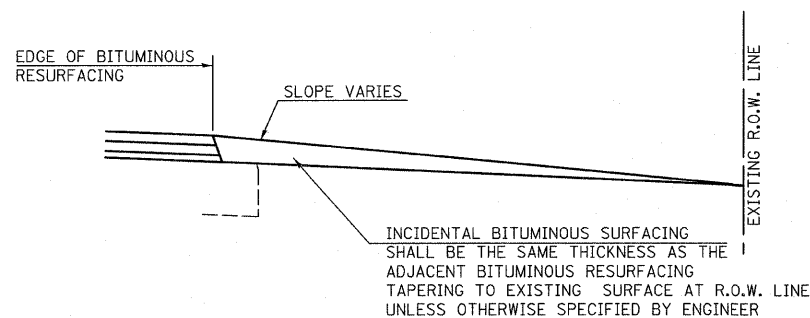
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F.A.S RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
494	07-00058-06-WR	McLEAN	8	4
CONTRACT NO. 91403				
FED. ROAD DIST. NO. 5 [ILLINOIS] FED. AID PROJECT				

TYPICAL RURAL SIDE ROAD RETURN  
& COMMERCIAL ENTRANCE DETAIL  
8 @ 122.8 SQ YDS EACH

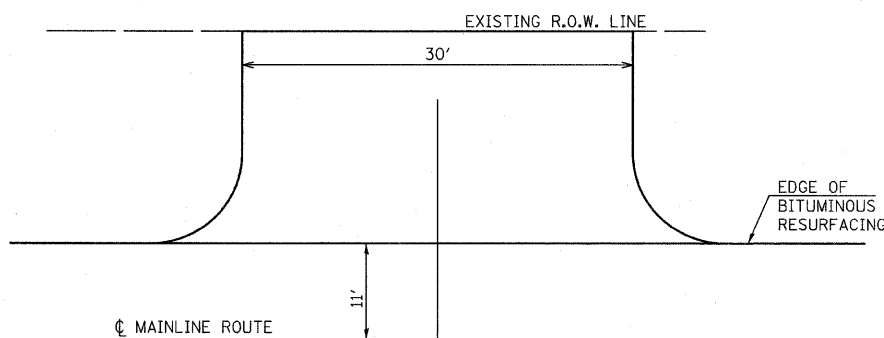


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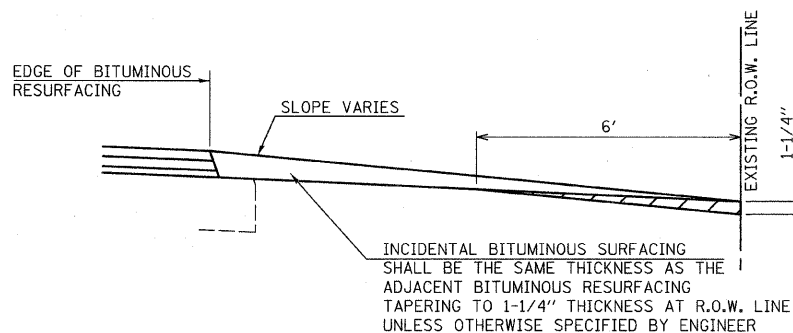


PROFILE H

SPECIAL COMMERCIAL ENTRANCE DETAIL 1  
ENTRANCE TO SUPER 8 MOTEL  
1 @ 107.4 SQ YDS

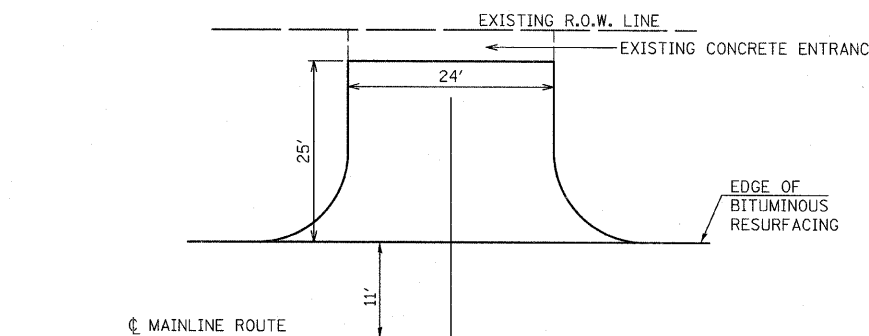


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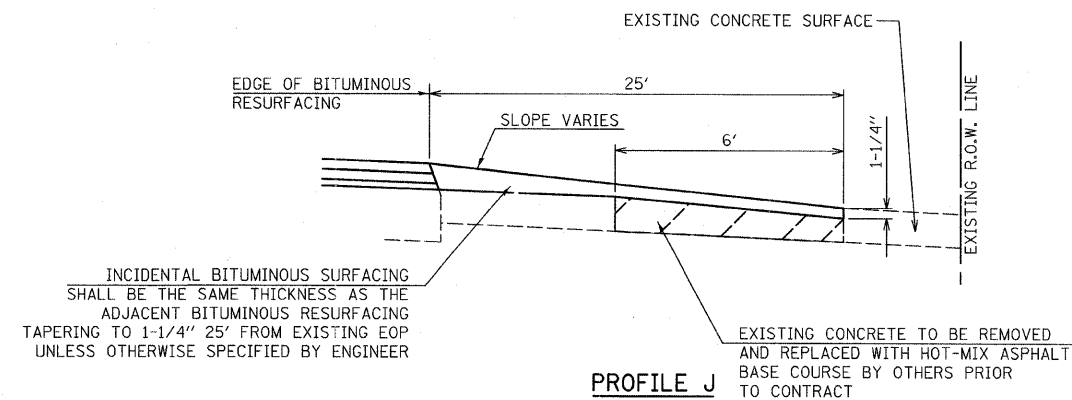


PROFILE I

SPECIAL COMMERCIAL ENTRANCE DETAIL 2  
ENTRANCE TO LEROY FAMILY MEDICINE  
1 @ 77.4 SQ YDS



PLAN J

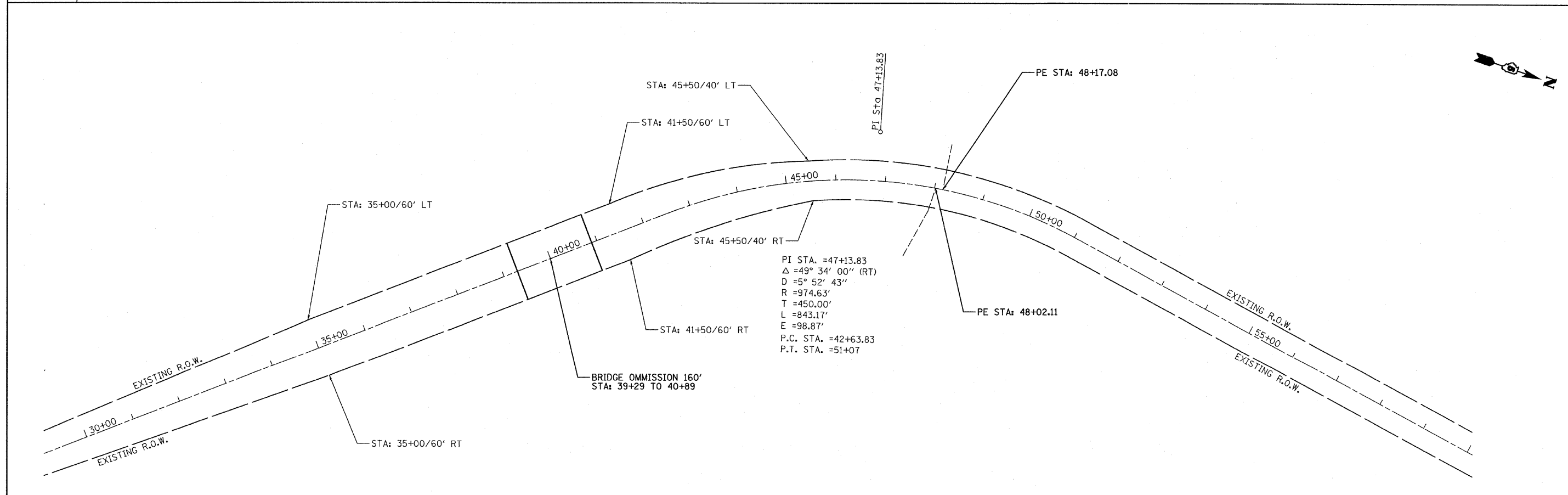
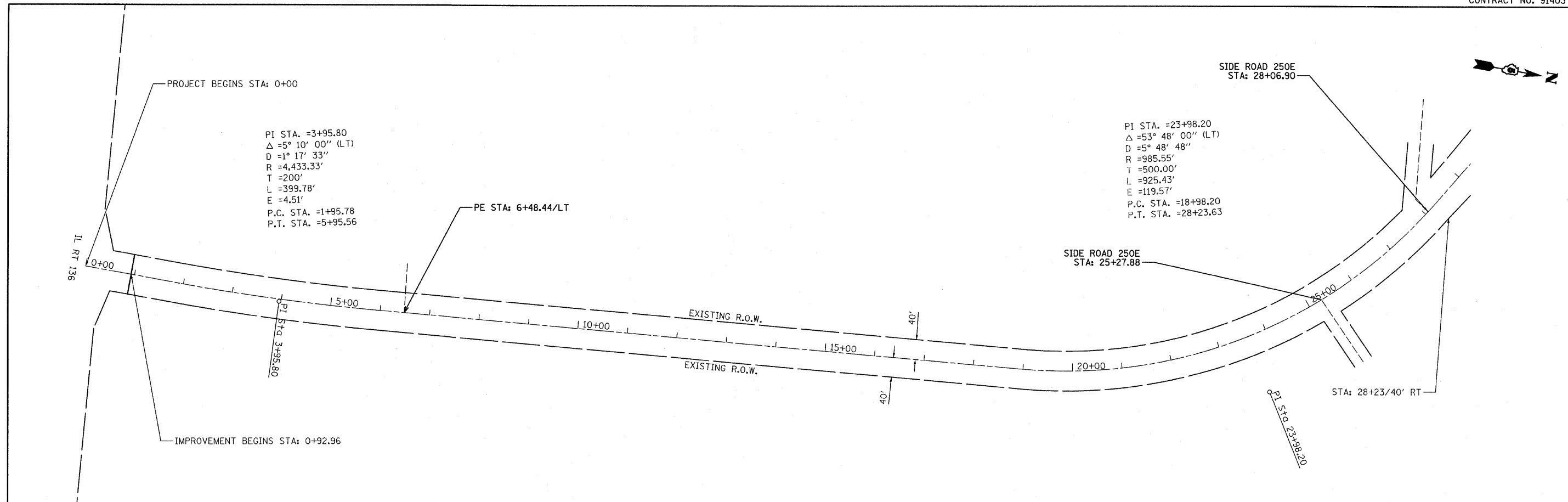


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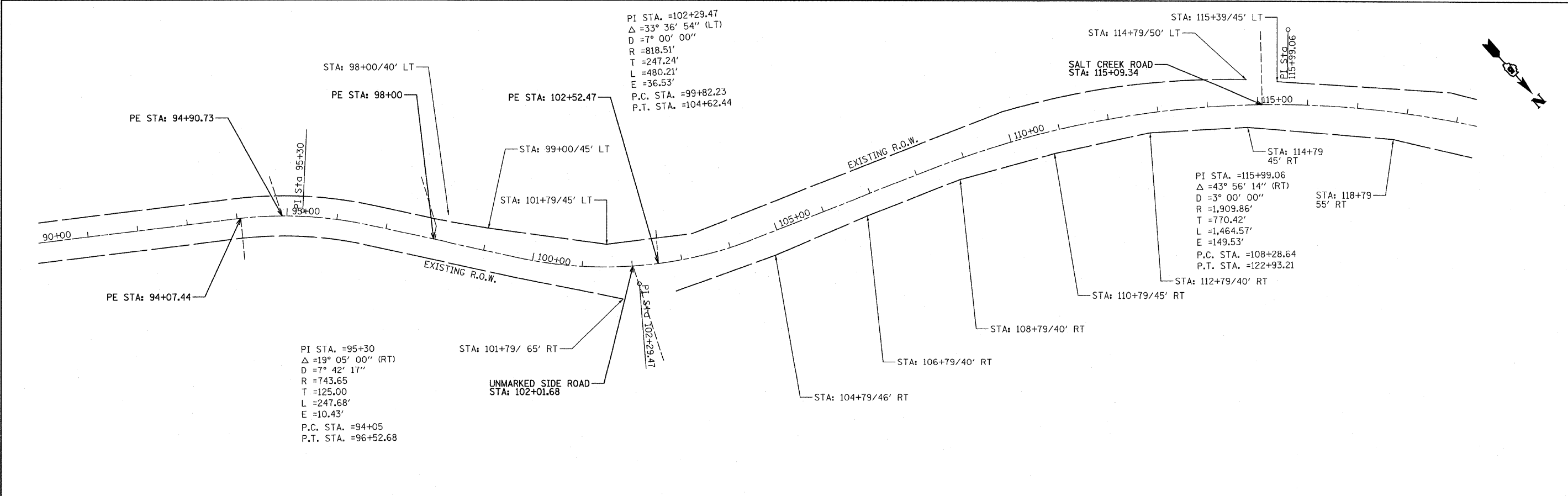
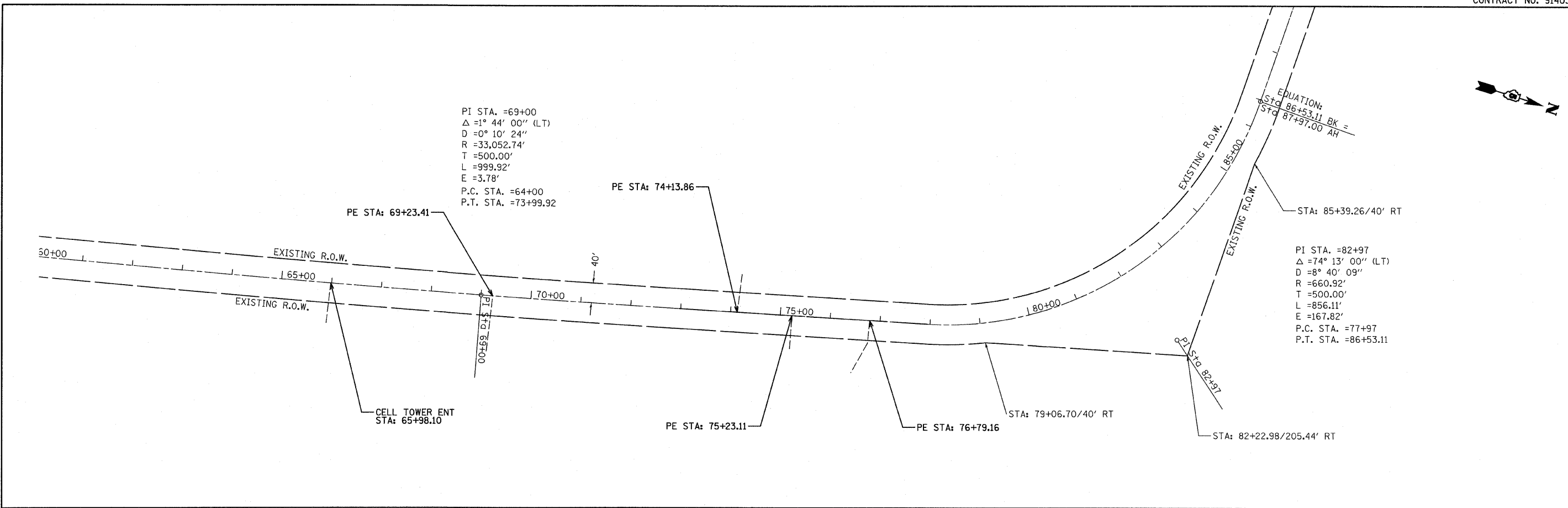
NOTES:

1. ALL TEMPORARY & 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.
5. ALL EXISTING GUADRAIL WILL BE ADJUSTED FOR HEIGHT AND TURNOUT BY THE McLEAN COUNTY HIGHWAY DEPARTMENT FOLLOWING THE PLACEMENT OF THE AGGREGATE SHOULDERS.

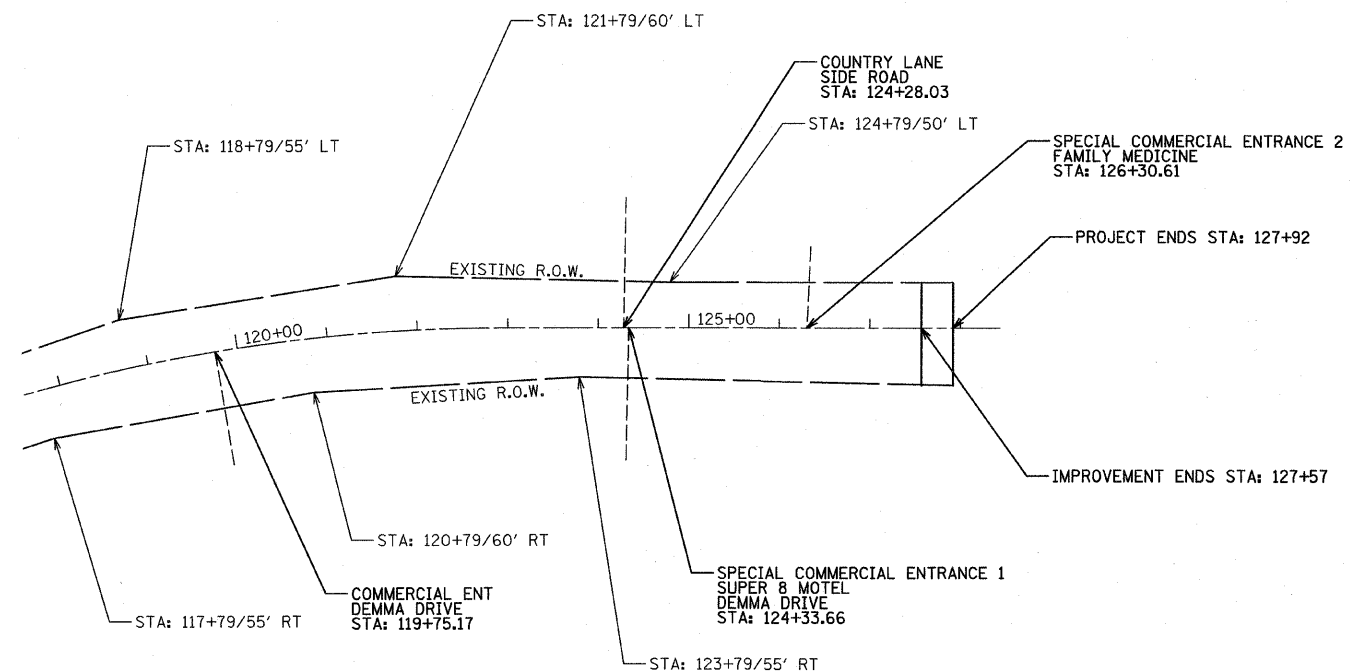
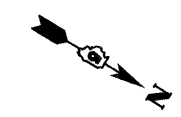
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		CHECKED -	REVISED -					CONTRACT NO. 91403					
		DATE -	REVISED -		FED. ROAD DIST. NO. 5 [ILLINOIS] FED. AID PROJECT								



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FILE NAME =	USER NAME = #USER#	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>PLAN SHEET</b>				F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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