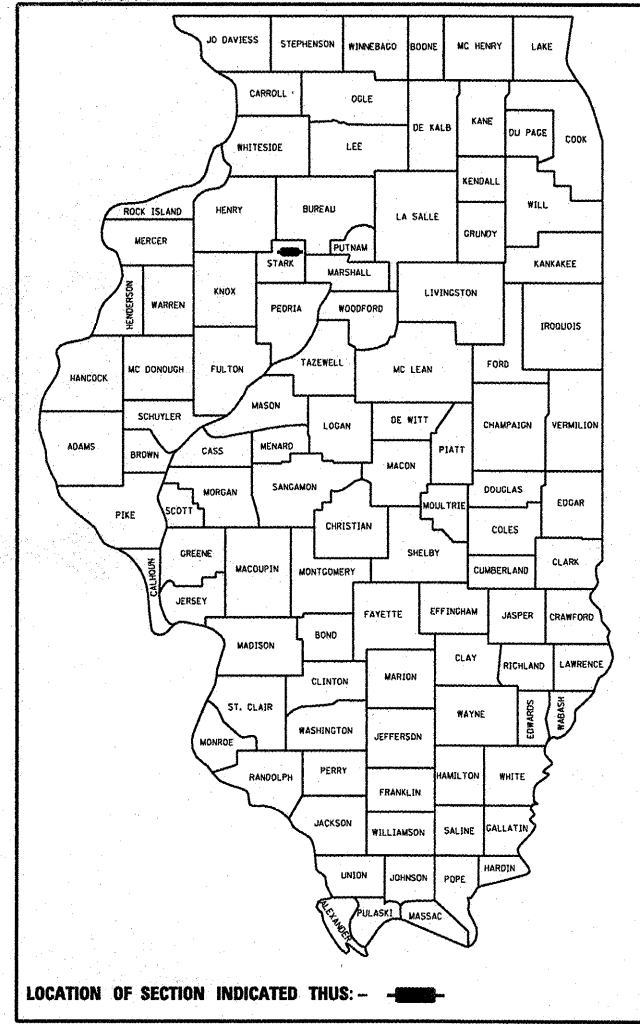


F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
643	(11,12)RS-2; (6W)RS-3; 101RS-4	STARK	45	1
		ILLINOIS	CONTRACT NO. 68747	

**D-94-079-07**



**DESCRIPTION OF PROJECT**  
**RESURFACING ON IL 17 /91 FROM IL 91 (N) IN TOULON TO IL 40 (N)**

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

SUBMITTED *DEC 7 09*

*[Signature]*  
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

*[Signature]*  
ACTING ENGINEER OF DESIGN AND ENVIRONMENT

*[Signature]*  
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

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

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

**PROPOSED  
HIGHWAY PLANS**

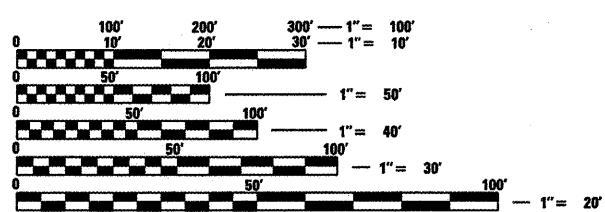
FAP 643 ROUTE IL 17 IL 91  
SECTION (11,12)RS-2; (6W)RS-3; 101RS-4  
STARK COUNTY  
PROJECT ACF-0643(087)  
C-94-114-07

- INDEX OF SHEETS**
- 1. COVER SHEET
  - 2-4. COMMITMENTS, GENERAL NOTES & JOB SPECIFIC NOTES
  - 5. SUMMARY OF QUANTITIES
  - 6-11. TYPICAL SECTIONS
  - 12-13. RESURFACING QUANTITIES
  - 14-18. SCHEDULE OF QUANTITIES
  - 19-20. LINE DIAGRAM
  - 21-27. GUARDRAIL IMPROVEMENTS
  - 28-30. PAVEMENT MARKING DETAIL
  - 31. ENTRANCES, SIDEROADS AND MAILBOX TURNOUT DETAIL
  - 32. RUMBLE STRIP DETAIL
  - 33-45. DISTRICT CADD STANDARDS

**HIGHWAY STANDARDS      DISTRICT CADD STANDARDS**

- |           |           |           |
|-----------|-----------|-----------|
| 442201-03 | 701301-03 | 406101-D4 |
| 482011-03 | 701306-02 | 406201-D4 |
| 630001-03 | 701311-03 | 440001-D4 |
| 630301-05 | 701326-03 | 630101-D4 |
| 635001-01 | 701336-05 | 635101-D4 |
| 635006-03 | 701901-01 | 667101-D4 |
|           | 780001-02 | 780001-D4 |
| 701006-03 | 781001-03 |           |
| 701011-02 |           |           |

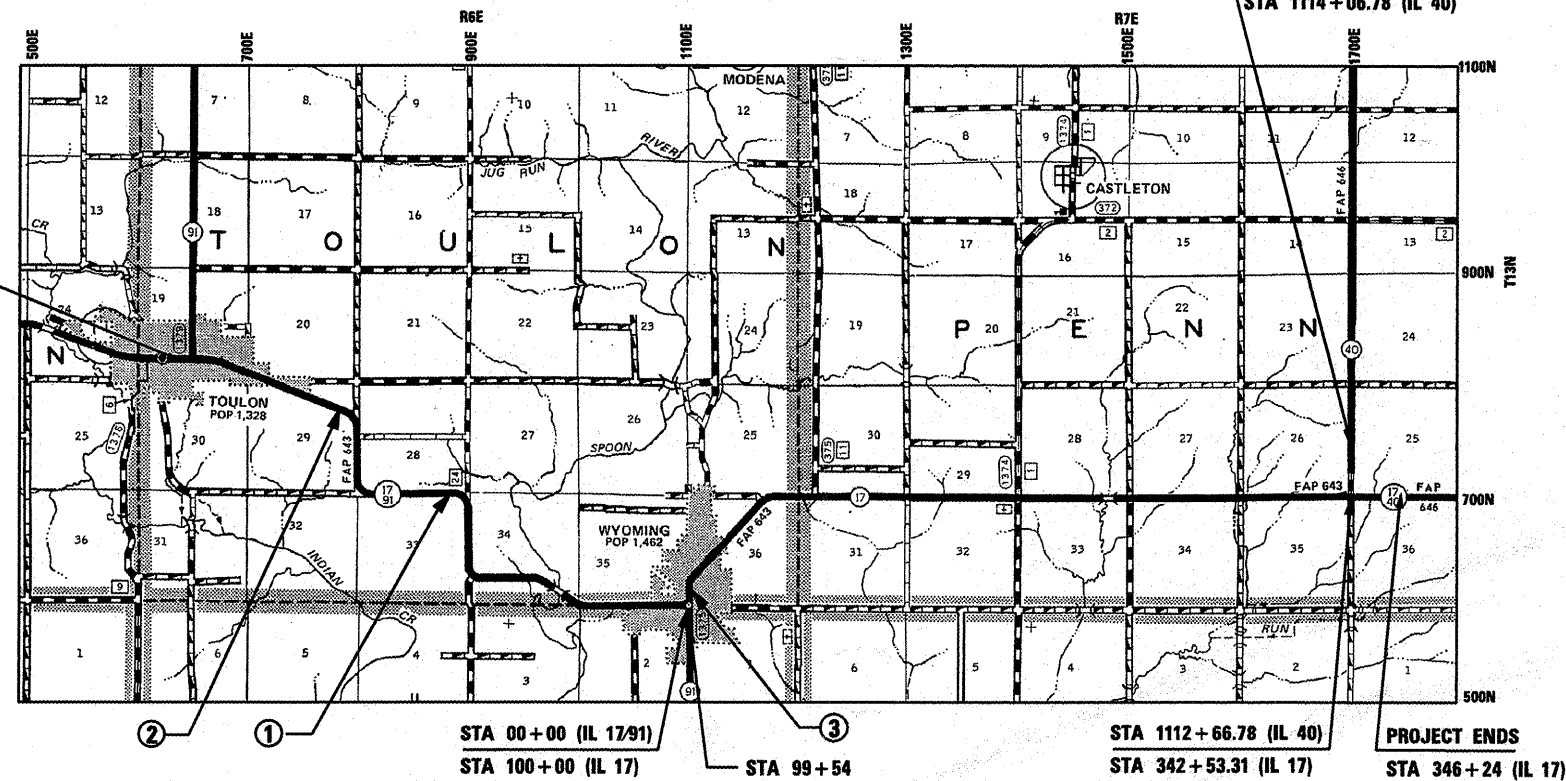
AADT = 2,550  
MU = 2.35%  
SU = 4.90%



FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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

PROJECT ENGINEER: MAUREN ADDIS (309) 671-3454  
SQUAD LEADER: ELIAS ELDERZI (309) 671-3459  
CATALOG NO. 033567-00D  
CONTRACT NO. 68747



STATION EQUATIONS:

- ① 151+15.45 (BK) = 135+35.35 (AH)
- ② 220+84.30 (BK) = 204+98.10 (AH)
- ③ 103+78 (BK) = 00+00 (AH)

GROSS LENGTH = 66,790.30 FT. = 12.65 MILES  
NET LENGTH = 66,790.30 FT. = 12.65 MILES

## COMMITMENTS

Commitments are not to be altered without the written approval of all parties to which the commitment was made.

No Commitments have been made for this project

## DESIGN CRITERIA

This project was designed in accordance with S.M.A.R.T. policies procedures, and guidelines.

## GENERAL NOTES

### Aggregate Shoulders, Type B

Aggregate Shoulders, Type B shall be required for all granular construction of side roads, entrances, and mailbox turnouts, whether or not portions of the surfaces thus constructed are to be covered with a bituminous surface, except where noted differently on the plans.

### Paving Surface Course

Continuous paving operations on the main roadway shall be maintained at all times during the construction of the bituminous surface. No interruptions for side roads, entrances, turn lanes, etc. will be allowed.

### Butt Joint Cutting Restrictions

Butt Joints shall not be milled more than three (3) days prior to placement of the HMA surface course.

### Reflective Crack Control Placement

Reflective crack control treatment shall be placed on the cold milled surface.

### Engineer's Field Office

Add the following sentence to the end of paragraph 670.02 (i) and 670.04 (e):  
All of the telephone lines provided shall have unpublished numbers.

### Environmental Reviews

Prior to the use of any proposed borrow areas, use areas (temporary access roads, detours, run-arounds, etc.) and/or waste areas, the Contractor shall file the required environmental resource request surveys according to Section 107.22 of the Standard Specifications. These surveys are required in order for the Department to conduct cultural and biological resource surveys for the proposed site.

Prior to any waste materials being removed from the construction site the required environmental resource surveys will need to be obtained and filed by the Contractor. Excess waste products removed from the construction site shall be disposed of as required in Section 202.03 of the Standard Specifications.

Any protruding metal bars shall be removed prior to the disposal of broken concrete at approved disposal sites.

The required environmental resource documentation shall include the following:

- \* BDE Form 2289 (Environmental Survey Request)
- \* A location map showing the size limits and location of the use area
- \* Signed property owner agreement form - D4 PI0100
- \* Color photographs depicting the use area
- \* Borrow Area Entry Agreement form - D4 PI0101

Please note that a minimum of two weeks shall be allowed for the District to obtain the required environmental clearances.

### Pavement Station Numbers & Placement

The Contractor shall provide labor and materials required to imprint pavement station numbers in the finished surface of the pavement and/or overlay. The numbers shall be approximately 3/4 inches wide, 5 inches high, and 5/8 inches deep. The pavement station numbers shall be installed as specified herein:

Interval - 200 feet

Bottom of Numbers - 6 inches from the inside edge of the pavement marking

Location:

- 2, 3, & 5 Lane Pavements - right edge of pavement in direction of increasing stations
- Multi-lane Divided Roadways - outside edge of pavement in both directions
- Ramps - along baseline edge of pavement

Position - stations shall be placed so they can be read from the adjacent shoulder

Format - pavement stations shall use this format XXX + XX, where X represents the pavement station  
This work will not be paid separately, but will be considered included in the cost of the associated pavement and/or overlay pay items.

FILE NAME = 0468747-sht-plan.dgn	USER NAME = mendeazp	DESIGNED - DRAWN -	REVISED - REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>COMMITMENTS AND GENERAL NOTES</b>	F.A.P. RTE. 643	SECTION 011,121RS-2;6WRS-3;101RS-4	COUNTY STARK	TOTAL SHEETS 45	SHEET NO. 2
	PLOT SCALE = 100.0000' / IN.	CHECKED -	REVISED -		SCALE: NONE	SHEET NO. 1 OF SHEETS		CONTRACT NO. 68747		ILLINOIS FED. AID PROJECT
	PLOT DATE = 12/7/2009	DATE -	REVISED -		STA.	TO STA.				



**JOB SPECIFIC NOTES**

Traffic Barrier Terminal, Type 1 Special (Tangent) When attached to existing guardrail

Road System, Inc  
 3616 Old Howard County Airport  
 Big Spring, TX 79720  
 Phone: 915-263-2435  
 "SKT"

Wood blockouts only. Wood post system Only. Post 1 & 2 to use steel soil tubes (6'-6" or 6'-0" with wood post). Post 3 through 8 to use 4'-6" soil tubes with wood posts (soil plates not required), OR post 3 through 8 may be 6' CRT posts.

Trinity Industries, Inc.  
 2525 N. Stemmons Freeway  
 Dallas, TX 75207  
 Phone: 800-644-7976 or 801-292-4461  
 "ET-2000"

Wood blockouts only. A wood system may be used. Post 1 & 2 to use steel soil tubes (6'-6" or 6'-0" with wood posts). Posts 3 through 8 to use 4'-6" soil tubes with wood posts (soil plates not required), OR posts 3 through 8 may be 6' CRT posts. OR a system using the Steel Yielding Terminal Post (SYTP) (Posts 2 to 8) and one Hinged Break Away Post (HBA) (Post 1) may be used.

Sideroads

Milling and Resurfacing limits need to be verified by the Resident Engineer prior to each operation.

Permanent Survey Markers

Contractor shall notify the Resident Engineer two weeks prior to any bituminous surface removal to allow sufficient time to locate existing survey markers.

Guardrail Aggregate Erosion Control

Excavation for the placement of Guardrail Aggregate Erosion control will not be paid for separately, but shall be included in the cost of Guardrail Aggregate Erosion Control pay item.

FILE NAME = D468747-sht-planudgn	USER NAME = mendezp.j	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>JOB SPECIFIC NOTES</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLLOT SCALE = 100.0000' / IN.	CHECKED -	REVISED -			643	(11,12)RS-2(6)WS-3(10)RS-4	STARK	45	4
	PLLOT DATE = 12/7/2009	DATE -	REVISED -			CONTRACT NO. 68747		ILLINOIS FED. AID PROJECT		
					SCALE: NONE	SHEET NO. OF SHEETS		STA. TO STA.		

80% FED.  
20% ST.

### SUMMARY OF QUANTITIES

CONSTRUCTION  
CODE

CODE	ITEM	UNIT	TOTAL QUANTITY	ROADWAY I000 RURAL
40600215	POLYMERIZED BITUMINOUS MATERIALS (PRIME COAT)	TON	108	108
40600300	AGGREGATE (PRIME COAT)	TON	624	624
40600826	POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50	TON	8,428	8,428
40600895	CONSTRUCTING TEST STRIP	EACH	1	1
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	4,361	4,361
40600990	TEMPORARY RAMP	SQ YD	1,040	1,040
40603305	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N30	TON	354	354
40603335	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50	TON	16,895	16,895
40800050	INCIDENTAL HOT-MIX ASPHALT SURFACING	TON	691	691
44000153	HOT-MIX ASPHALT SURFACE REMOVAL, 1"	SQ YD	202,692	202,692
44000155	HOT-MIX ASPHALT SURFACE REMOVAL, 1 1/2"	SQ YD	747	747
44004250	PAVED SHOULDER REMOVAL	SQ YD	267	267
44201815	CLASS D PATCHES, TYPE II, 14 INCH	SQ YD	2,096	2,096
44201819	CLASS D PATCHES, TYPE III, 14 INCH	SQ YD	17	17
44201821	CLASS D PATCHES, TYPE IV, 14 INCH	SQ YD	87	87
44300200	STRIP REFLECTIVE CRACK CONTROL TREATMENT	FOOT	133,501	133,501
48101200	AGGREGATE SHOULDERS, TYPE B	TON	4,048	4,048
48203029	HOT-MIX ASPHALT SHOULDERS, 8"	SQ YD	437	437
* 63000001	STEEL PLATE BEAM GUARD RAIL, TYPE A, 6 FOOT POSTS	FOOT	1,938	1,938
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	74	74
63200310	GUARDRAIL REMOVAL	FOOT	3,913	3,913
63200600	STEEL PLATE BEAM GUARD RAIL REMOVAL, SINGLE RAIL	FOOT	50	50
64200105	SHOULDER RUMBLE STRIP	FOOT	3,841	3,841
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CALMO	4	4

80% FED.  
20% ST.

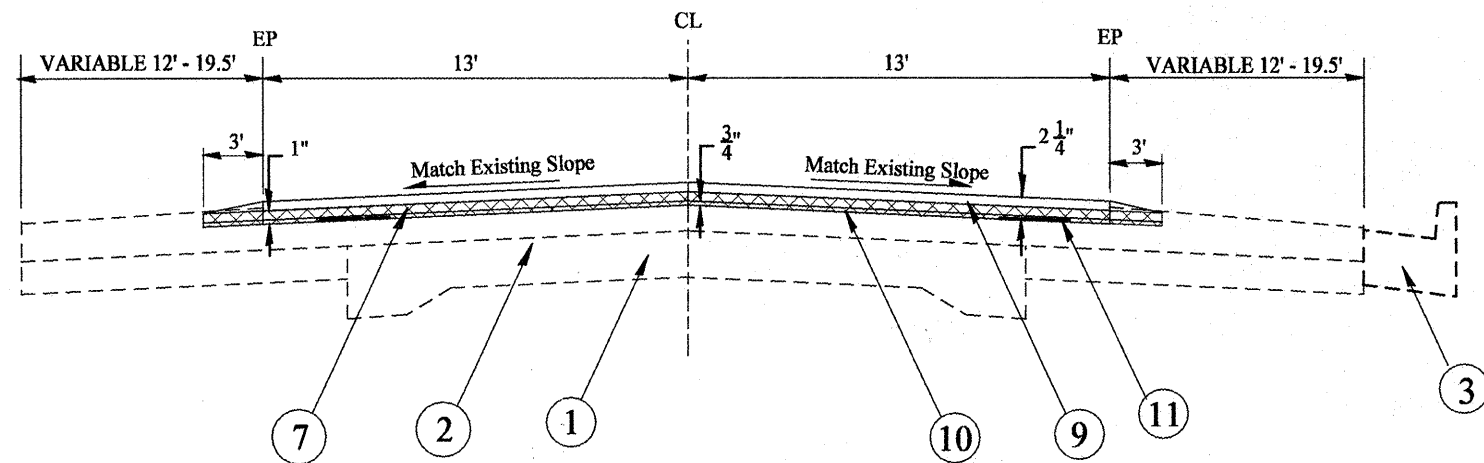
### SUMMARY OF QUANTITIES

CONSTRUCTION  
CODE

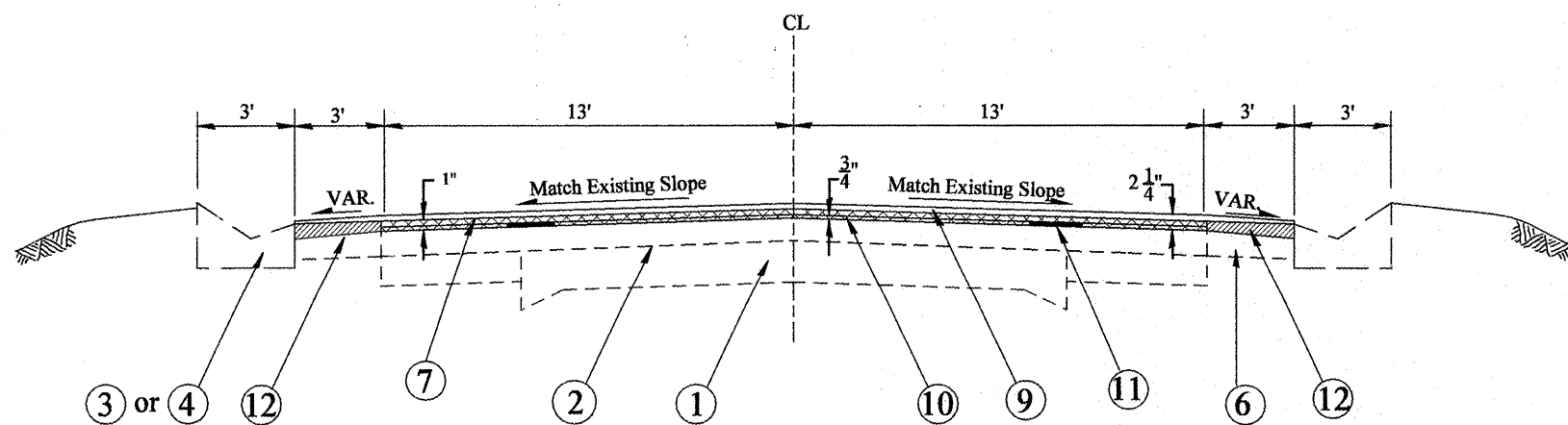
CODE	ITEM	UNIT	TOTAL QUANTITY	ROADWAY I000 RURAL
67100100	MOBILIZATION	L SUM	1	1
70100460	TRAFFIC CONTROL AND PROTECTION, STANDARD 701306	L SUM	1	1
70100500	TRAFFIC CONTROL AND PROTECTION, STANDARD 701326	L SUM	1	1
70100600	TRAFFIC CONTROL AND PROTECTION, STANDARD 701336	L SUM	1	1
70300100	SHORT-TERM PAVEMENT MARKING	FOOT	20,025	20,025
70300210	TEMPORARY PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	62	62
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	199,140	199,140
70300250	TEMPORARY PAVEMENT MARKING - LINE 8"	FOOT	616	616
70300260	TEMPORARY PAVEMENT MARKING - LINE 12"	FOOT	504	504
70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	27	27
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	2,229	2,229
* 78005100	EPOXY PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	62	62
* 78005110	EPOXY PAVEMENT MARKING - LINE 4"	FOOT	199,140	199,140
* 78005140	EPOXY PAVEMENT MARKING - LINE 8"	FOOT	616	616
* 78005150	EPOXY PAVEMENT MARKING - LINE 12"	FOOT	504	504
* 78005180	EPOXY PAVEMENT MARKING - LINE 24"	FOOT	27	27
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	914	914
* 78200410	GUARDRAIL MARKERS, TYPE A	EACH	87	87
* 78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	74	74
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	763	763
X0301512	GUARDRAIL AGGREGATE EROSION CONTROL	TON	1,927	1,927
X0322729	MATERIAL TRANSFER DEVICE	TON	16,895	16,895
+ X2503100	MOWING	UNIT	670	670
Z0025550	FURNISHING AND INSTALLING RAIL ELEMENT PLATES	FOOT	50	50

+ NON-PARTICIPATING  
100% STATE

\* SPECIALTY ITEM



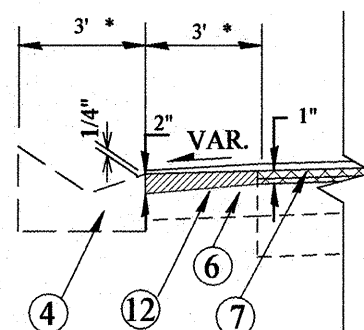
STA 0+39 TO STA 2+18.70 (IL 17/91)  
STA 99+54 TO 103+07 (IL 17)



STA 2+18.70 TO STA 4+00.00 (IL 17/91)

IL 17

- \* STA 103+69 TO STA 103+78 (RT SIDE)  
STA EQ 103+78 = 0+00
- \* STA 0+00 TO STA 0+68 (RT SIDE)  
STA 0+68 TO STA 7+23
- \* STA 7+23 TO STA 7+32 (LT SIDE)



SHOULDER DETAIL

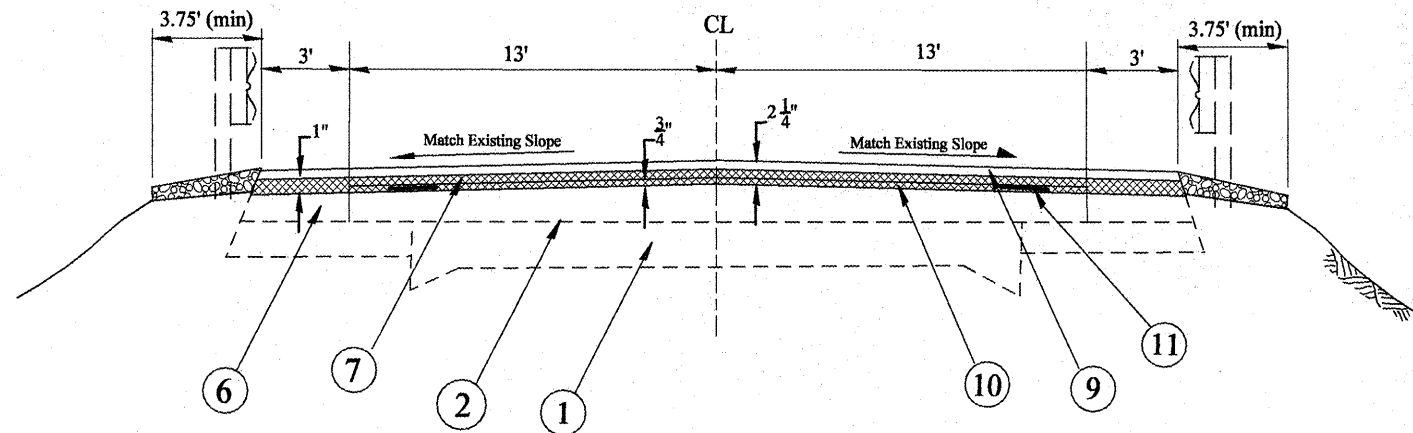
**LEGEND**

1. EXISTING PAVEMENT
2. EXISTING BITUMINOUS OVERLAY
3. EXISTING COMBINATION CURB AND GUTTER
4. EXISTING CONCRETE GUTTER
5. EXISTING BRIDGE DECK
6. EXISTING HOT-MIX ASPHALT SHOULDER
7. PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL, 1"
8. PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL 1 1/2"
9. PROPOSED HOT-MIX ASPHALT SURFACES CSE, MIX D, N50, 1 1/2"
10. PROPOSED POLYMERIZED LEVELING BINDER (MACHINE METHOD) N50, 3/4"
11. PROPOSED STRIP REFLECTIVE CRACK CONTROL TREATMENT
12. PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH
13. PROPOSED AGGREGATE SHOULDER TYPE B (WEDGE)
14. PROPOSED GUARDRAIL AGGREGATE EROSION CONTROL
15. EXISTING WATERPROOF MEMBRANE

**NOTE:**

HOT-MIX ASPHALT SURFACE REMOVAL VARIABLE DEPTH WILL BE PAID FOR AS HOT-MIX ASPHALT REMOVAL 1"

FILE NAME = D468747-shft-plan.dgn	USER NAME = mendezpj	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>TYPICAL SECTIONS</b>			F.A.P. RTE. 643	SECTION (IL12)RS-2(6W)RS-3(10)RS-4	COUNTY STARK	TOTAL SHEETS 45	SHEET NO. 6
		DRAWN -	REVISED -		SCALE: NONE	SHEET NO.	OF SHEETS	STA.	TO STA.	CONTRACT NO. 68747		
		CHECKED -	REVISED -		ILLINOIS FED. AID PROJECT							
		DATE -	REVISED -									

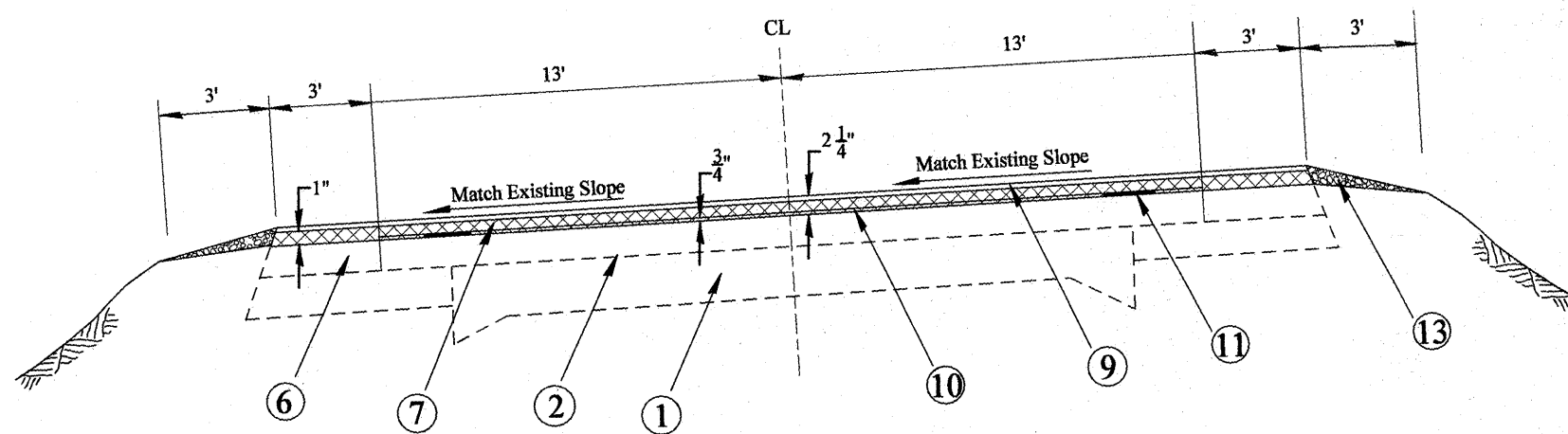


IL 17/91

STA 61+17 TO STA 62+52  
STA 64+70 TO STA 65+49

**LEGEND**

1. EXISTING PAVEMENT
2. EXISTING BITUMINOUS OVERLAY
3. EXISTING COMBINATION CURB AND GUTTER
4. EXISTING CONCRETE GUTTER
5. EXISTING BRIDGE DECK
6. EXISTING HOT-MIX ASPHALT SHOULDER
7. PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL, 1"
8. PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL 1 1/2"
9. PROPOSED HOT-MIX ASPHALT SURFACES CSE, MIX D, N50, 1 1/2"
10. PROPOSED POLYMERIZED LEVELING BINDER (MACHINE METHOD) N50, 3/4"
11. PROPOSED STRIP REFLECTIVE CRACK CONTROL TREATMENT
12. PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH
13. PROPOSED AGGREGATE SHOULDER TYPE B (WEDGE)
14. PROPOSED GUARDRAIL AGGREGATE EROSION CONTROL
15. EXISTING WATERPROOF MEMBRANE



IL 17/91

STA 104+09.96 TO STA 112+12.29  
STA 142+28 TO STA 150+55.4 (LT BIT SHOULDER)  
STA EQ 151+15.5 (BK) = 135+35.5 (AH)  
STA 177+62.6 TO STA 187+54 (RT BIT SHOULDER)  
STA 208+49 TO STA 213+12 (LT BIT SHOULDER)  
STA 214+59 TO 220+84.3 (LT BIT SHOULDER)

IL 17

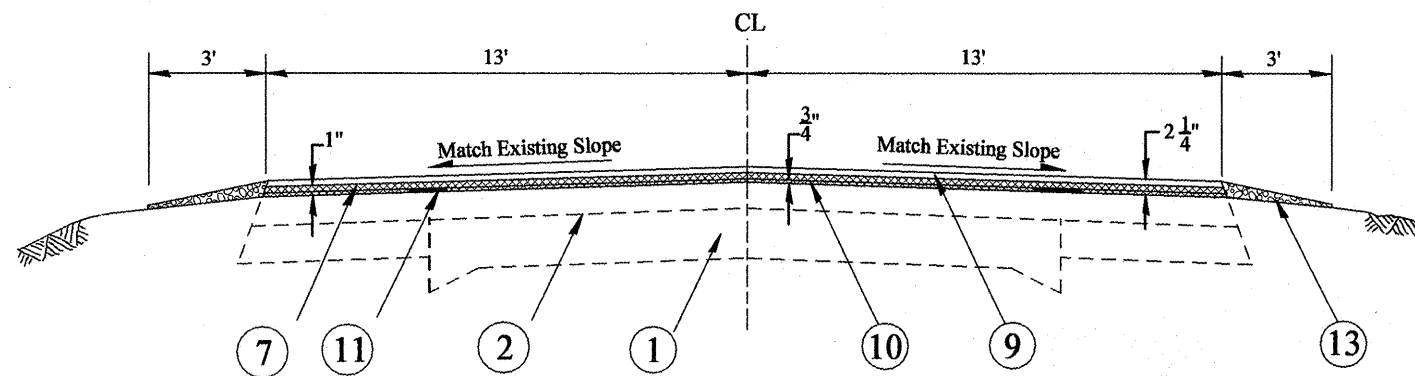
STA 57+30 TO STA 67+20 (RT BIT SHOULDER)

FILE NAME = 0468747-sht-plan.dgn	USER NAME = mendezpj	DESIGNED -	REVISED -
		DRAWN -	REVISED -
		CHECKED -	REVISED -
		DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>TYPICAL SECTIONS</b>			
SCALE: NONE	SHEET NO.	OF SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
643	(11,12)RS-2(6)WRS-3(10)RS-4	STARK	45	7
CONTRACT NO. 68747				
ILLINOIS FED. AID PROJECT				



IL 17/91

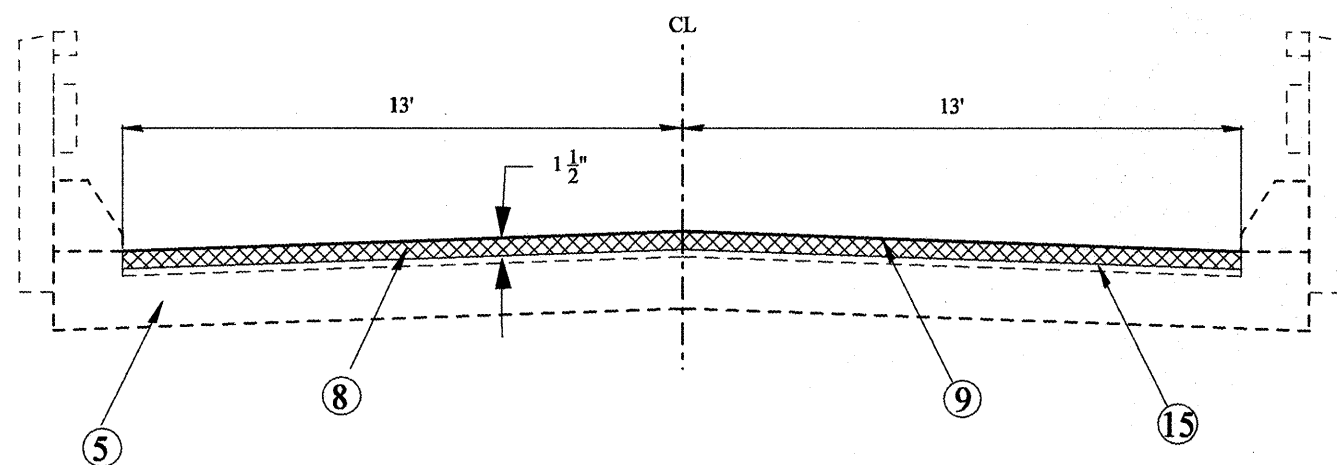
STA 13+28 TO STA 18+92  
 STA 22+84 TO STA 30+81  
 STA 79+61 TO STA 90+33  
 STA 95+35 TO STA 99+23  
 STA 111+08 TO STA 129+35  
 STA 132+00 TO STA 142+28  
 STA 138+12 TO STA 147+89  
 STA 187+54 TO STA 209+22

IL 17

STA 7+32 TO STA 21+87  
 STA 23+78 TO STA 57+30  
 STA 67+20 TO STA 336+20

**LEGEND**

1. EXISTING PAVEMENT
2. EXISTING BITUMINOUS OVERLAY
3. EXISTING COMBINATION CURB AND GUTTER
4. EXISTING CONCRETE GUTTER
5. EXISTING BRIDGE DECK
6. EXISTING HOT-MIX ASPHALT SHOULDER
7. PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL, 1"
8. PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL 1 1/2"
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10. PROPOSED POLYMERIZED LEVELING BINDER (MACHINE METHOD) N50, 3/4"
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12. PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH
13. PROPOSED AGGREGATE SHOULDER TYPE B (WEDGE)
14. PROPOSED GUARDRAIL AGGREGATE EROSION CONTROL
15. EXISTING WATERPROOF MEMBRANE



BRIDGE STA 62+52 TO STA 64+70 (IL 17/91)

FILE NAME = D468747-shr-plan.dgn	USER NAME = mendezpj	DESIGNED -	REVISED -
		DRAWN -	REVISED -
		CHECKED -	REVISED -
		DATE -	REVISED -

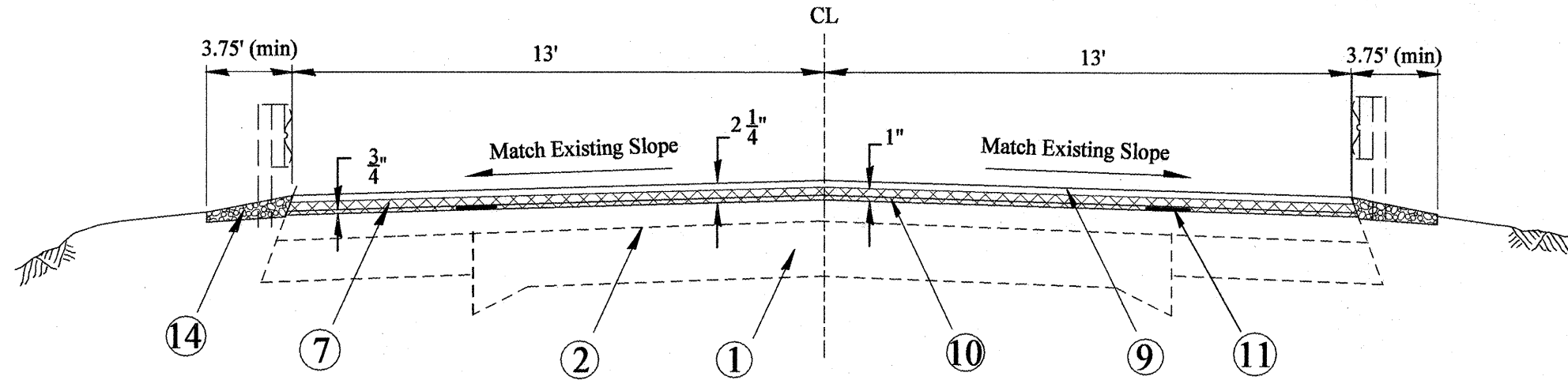
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS

SCALE: NONE SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
643	(11,12)RS-2+(6)WRS-3+(10)RS-4	STARK	45	8
CONTRACT NO. 68747				
ILLINOIS FED. AID PROJECT				





IL 17/91

- STA 18+67 TO STA 20+51 (GUARDRAIL RT)
- STA 20+51 TO STA 22+01
- STA 22+01 TO STA 23+04 (GUARDRAIL RT)
- STA 30+56 TO STA 31+13 (GUARDRAIL LT)
- STA 31+13 TO STA 32+63
- STA 32+63 TO STA 33+31 (GUARDRAIL LT)
- STA 34+78 TO STA 35+21 (GUARDRAIL RT)
- STA 35+21 TO STA 36+78
- STA 36+78 TO STA 37+46 (GUARDRAIL LT)
- STA 43+57 TO STA 44+12 (GUARDRAIL RT)
- STA 44+12 TO STA 45+74.5
- STA 45+74.5 TO STA 46+25 (GUARDRAIL RT)
- STA 46+25 TO STA 46+94.5
- STA 46+94.5 TO STA 47+50 (GUARDRAIL LT)
- STA 47+50 TO STA 49+75
- STA 49+75 TO STA 50+00 (GUARDRAIL LT)
- STA 60+39.14 TO STA 60+65 (GUARDRAIL LT)
- STA 65+49 TO STA 70+23.18
- STA 78+35 TO STA 79+85
- STA 90+08 TO STA 91+10 (GUARDRAIL RT)
- STA 91+10 TO STA 92+70.5
- STA 92+70.5 TO STA 95+60 (GUARDRAIL LT)
- STA 129+12.5 TO STA 130+22 (GUARDRAIL RT)

- STA 130+22 TO STA 132+09.5
- STA 132+09.5 TO STA 132+25 (GUARDRAIL RT)
- STA 151+00 TO STA 151+15.45
- STA EQ 151+15.45 (BK) = 135+35.35 (AH)
- STA 135+35.35 TO STA 138+07.5 (LT SHOULDER & GUARDRAIL)
- STA 147+65 TO STA 149+40 (GUARDRAIL RT)
- STA EQ 220+84.30 (BK) = 204+98.10 (AH)
- STA 207+50 TO STA 208+75
- STA 214+41 TO STA 216+41
- STA 216+41 TO STA 216+66 (GUARDRAIL RT)
- STA 227+69 TO STA 229+19
- STA 246+82 TO STA 247+65 (GUARDRAIL RT)
- STA 247+65 TO STA 249+40
- STA 249+40 TO STA 250+44.5 (GUARDRAIL RT)

IL 17

- STA 79+62 TO STA 81+12 (LT GUARDRAIL)
- STA 86+54 TO STA 88+04 (LT GUARDRAIL)
- STA 146+72 TO STA 146+83 (RT GUARDRAIL)
- STA 146+83 TO STA 148+22
- STA 148+22 TO STA 148+33 (LT GUARDRAIL)
- STA 185+85 TO STA 186+12 (RT GUARDRAIL)

- STA 186+12 TO STA 187+35
- STA 187+35 TO STA 187+62 (LT GUARDRAIL)
- STA 245+60 TO STA 245+95 (RT GUARDRAIL)
- STA 245+95 TO STA 247+10
- STA 247+10 TO STA 247+45 (LT GUARDRAIL)
- STA 252+10 TO STA 252+33 (RT GUARDRAIL)
- STA 252+33 TO STA 253+60
- STA 253+60 TO STA 253+83 (LT GUARDRAIL)
- STA 287+99 TO STA 288+49
- STA 289+68 TO STA 291+18 (LT GUARDRAIL)
- STA 312+76 TO STA 314+26 (LT GUARDRAIL)
- STA 313+37 TO STA 315+12 (LT GUARDRAIL)

LEGEND

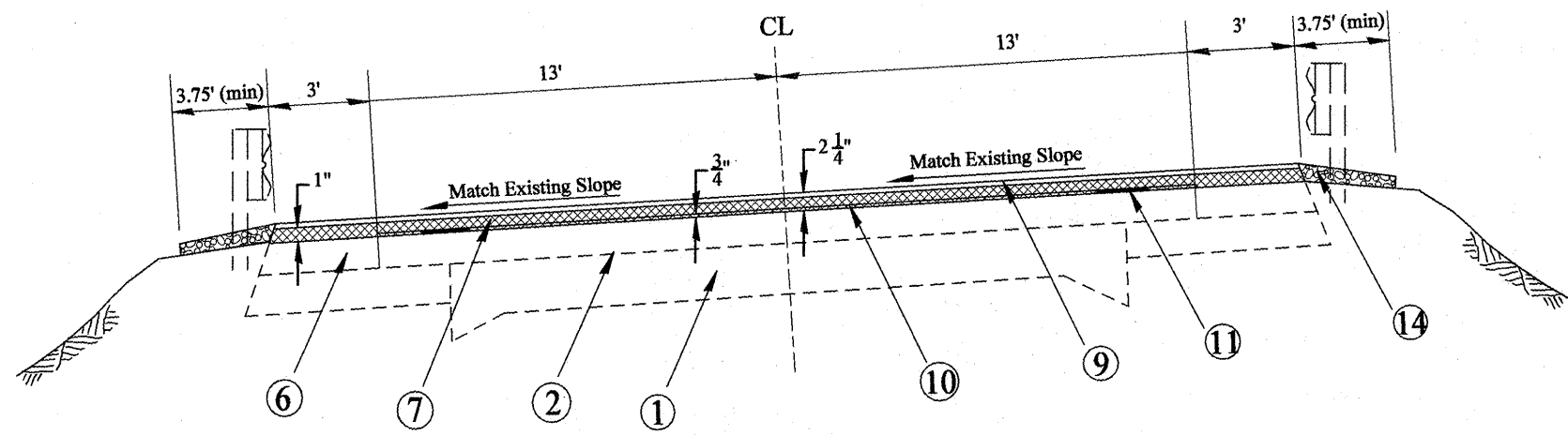
- 1. EXISTING PAVEMENT
- 2. EXISTING BITUMINOUS OVERLAY
- 3. EXISTING COMBINATION CURB AND GUTTER
- 4. EXISTING CONCRETE GUTTER
- 5. EXISTING BRIDGE DECK
- 6. EXISTING HOT-MIX ASPHALT SHOULDER
- 7. PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL, 1"
- 8. PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL 1 1/2"
- 9. PROPOSED HOT-MIX ASPHALT SURFACES CSE, MIX D, N50, 1 1/2"
- 10. PROPOSED POLYMERIZED LEVELING BINDER (MACHINE METHOD) N50, 3/4"
- 11. PROPOSED STRIP REFLECTIVE CRACK CONTROL TREATMENT
- 12. PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH
- 13. PROPOSED AGGREGATE SHOULDER TYPE B (WEDGE)
- 14. PROPOSED GUARDRAIL AGGREGATE EROSION CONTROL
- 15. EXISTING WATERPROOF MEMBRANE

FILE NAME = D468747-sht-plendgn	USER NAME = mendezipj	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 100.0000' / IN.	CHECKED -	REVISED -
	PLOT DATE = 12/7/2009	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>TYPICAL SECTIONS</b>			
SCALE: NONE	SHEET NO. OF SHEETS	STA. TO STA.	

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
643	(11,12)RS-2(6)WS-3(10)RS-4	STARK	45	9
<b>CONTRACT NO. 68747</b>				
ILLINOIS FED. AID PROJECT				

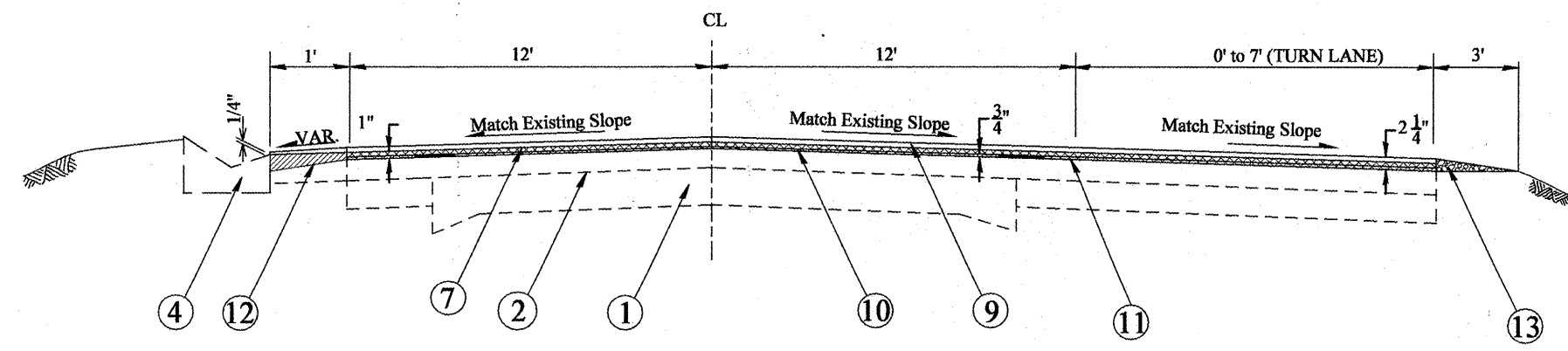


IL 17/91

- STA 60+04.5 TO STA 60+39.14 (NO BIT SHOULDERS, GUARDRAIL RT)
- STA 70+23.18 TO STA 75+49.5 (NO BIT SHOULDERS)
- STA 75+49.5 TO STA 76+12 (NO BIT SHOULDERS, GUARDRAIL LT)
- STA 213+10 TO 214+85 (LT BIT SHOULDER, GUARDRAIL RT)
- STA EQ 220+84.30 (BK) = 204+98.10 (AH)

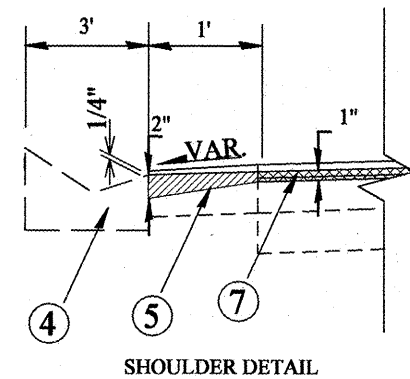
**LEGEND**

1. EXISTING PAVEMENT
2. EXISTING BITUMINOUS OVERLAY
3. EXISTING COMBINATION CURB AND GUTTER
4. EXISTING CONCRETE GUTTER
5. EXISTING BRIDGE DECK
6. EXISTING HOT-MIX ASPHALT SHOULDER
7. PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL, 1"
8. PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL 1 1/2"
9. PROPOSED HOT-MIX ASPHALT SURFACES CSE, MIX D, N50, 1 1/2"
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12. PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH
13. PROPOSED AGGREGATE SHOULDER TYPE B (WEDGE)
14. PROPOSED GUARDRAIL AGGREGATE EROSION CONTROL
15. EXISTING WATERPROOF MEMBRANE



IL 17/91

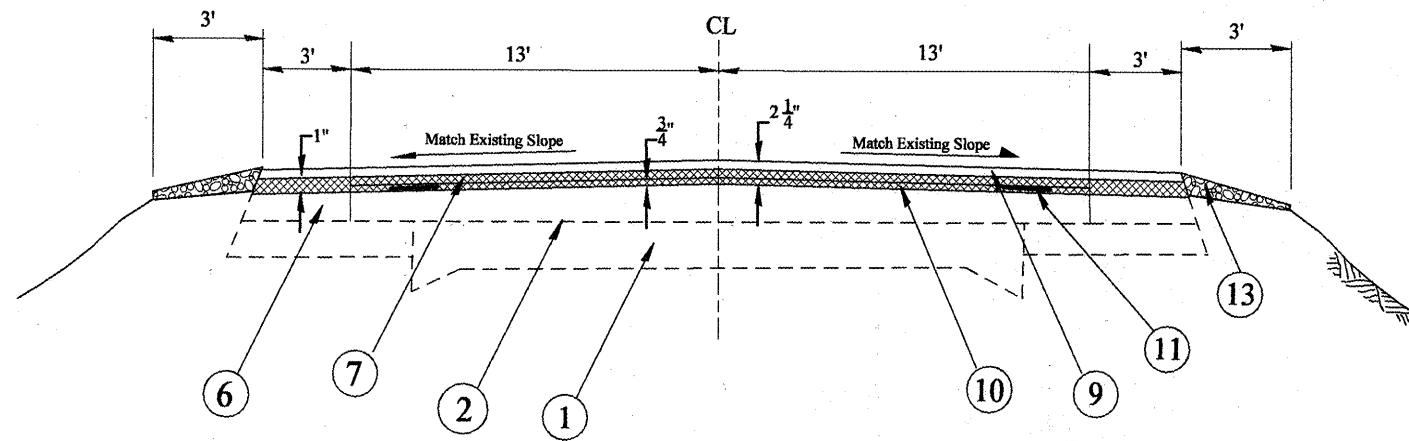
- STA 279+73 TO STA 208+51 (TAPER, NO GUTTER)
- STA 280+51 TO STA 282+75.5 (NO GUTTER)
- STA 282+75.5 TO STA 283+88
- STA 283+88 TO STA 285+75 (NO GUTTER)



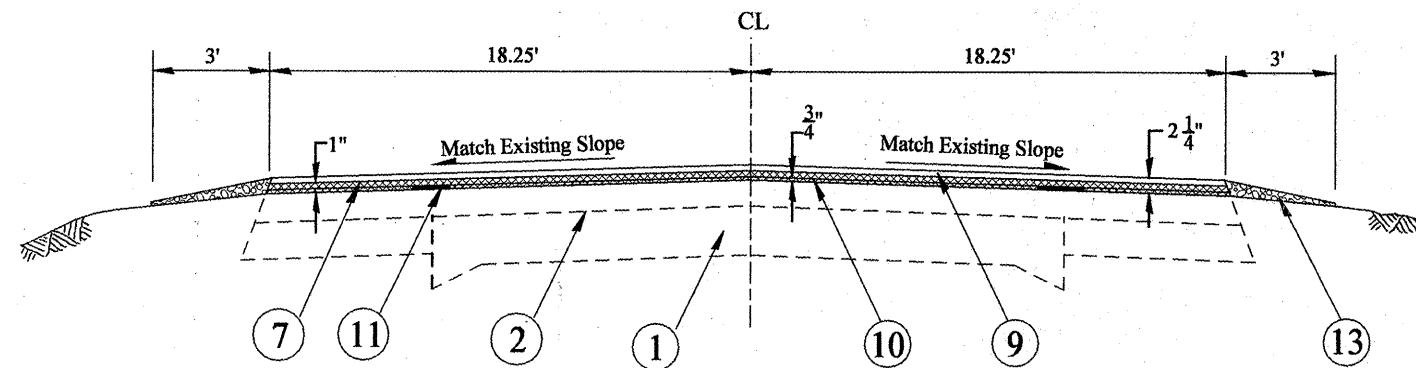
**NOTE:**

HOT-MIX ASPHALT SURFACE REMOVAL VARIABLE DEPTH WILL BE PAID FOR AS HOT-MIX ASPHALT REMOVAL 1"

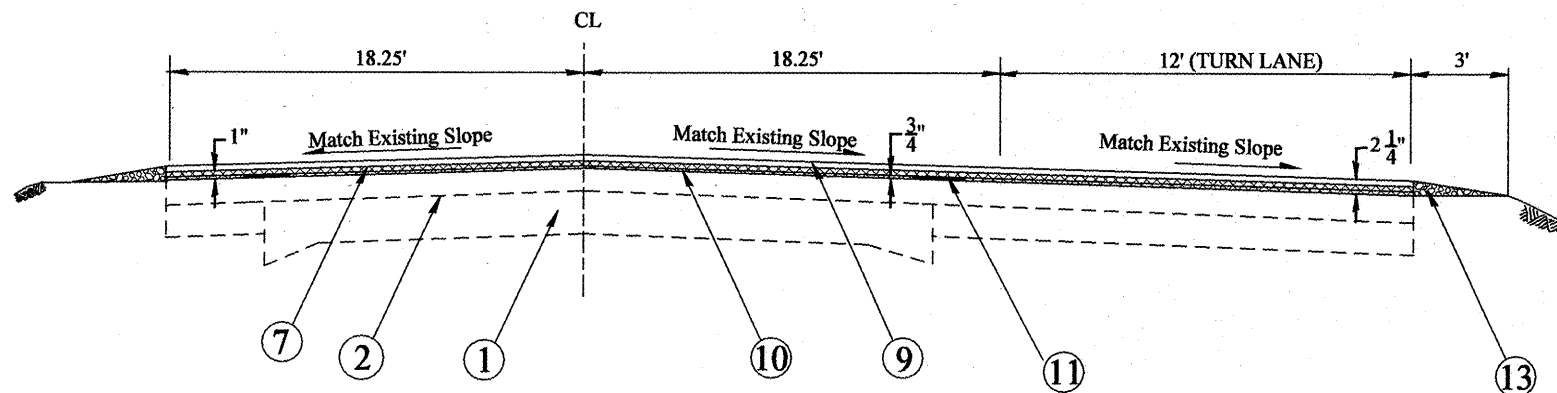
FILE NAME = D468747-ah-Plan.dgn	USER NAME = mendezpj	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>TYPICAL SECTIONS</b>			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 100.0000' / IN.	DRAWN -	REVISED -					643	(11,12)RS-2(6)WS-3(10)RS-4	STARK	45	10
	PLOT DATE = 12/7/2009	CHECKED -	REVISED -					CONTRACT NO. 68747				
		DATE -	REVISED -					ILLINOIS FED. AID PROJECT				
				SCALE: NONE	SHEET NO.	OF	SHEETS	STA.	TO STA.			



STA 4+00 TO STA 13+28 (IL 17/91)  
 STA 21+87 TO STA 23+87 (LT BIT SHOULDER) (IL 17)



STA 336+20 TO STA 339+20 (TAPER) (IL 17)  
 STA 339+20 TO 343+63 (IL 17)



STA 343+63 TO STA 344+68.55 (IL 17)  
 STA 344+68.55 TO STA 346+24 (TAPER) (IL 17)

**LEGEND**

1. EXISTING PAVEMENT
2. EXISTING BITUMINOUS OVERLAY
3. EXISTING COMBINATION CURB AND GUTTER
4. EXISTING CONCRETE GUTTER
5. EXISTING BRIDGE DECK
6. EXISTING HOT-MIX ASPHALT SHOULDER
7. PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL, 1"
8. PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL 1 1/2"
9. PROPOSED HOT-MIX ASPHALT SURFACES CSE, MIX D, N50, 1 1/2"
10. PROPOSED POLYMERIZED LEVELING BINDER (MACHINE METHOD) N50, 3/4"
11. PROPOSED STRIP REFLECTIVE CRACK CONTROL TREATMENT
12. PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH
13. PROPOSED AGGREGATE SHOULDER TYPE B (WEDGE)
14. PROPOSED GUARDRAIL AGGREGATE EROSION CONTROL
15. EXISTING WATERPROOF MEMBRANE

FILE NAME =  
 D468747-sht-plan.dgn

USER NAME = mendezp  
 PLOT SCALE = 1/8" = 100.0000' / IN.  
 PLOT DATE = 12/7/2009

DESIGNED -	REVISED -
DRAWN -	REVISED -
CHECKED -	REVISED -
DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**TYPICAL SECTIONS**

SCALE: NONE SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
643	(11,12)RS-2;(6)WRS-3;(10)RS-4	STARK	45	11
CONTRACT NO. 68747				
ILLINOIS FED. AID PROJECT				

**TABULATION OF RESURFACING QUANTITIES**

LOCATION	TOTAL ROADWAY WIDTH	LENGTH	AREA	HOT-MIX ASPHALT SURFACE REMOVAL BUTT JOINT	TEMPORARY RAMP	HOT-MIX ASPHALT SURFACE REMOVAL 1.0 IN	POL. BITUMINOUS MATERIALS PRIME COAT	AGGREGATE (PRIME COAT)	POL. LEVELING BINDER (MM) 0.75 IN	INCIDENTAL HOT-MIX ASPHALT SURFACING	HOT-MIX ASPHALT SURFACE CSE MIX D, N50 1.5 IN	HOT-MIX ASPHALT SURFACE COURSE MIX C, N30 BITUMINOUS SHOULDER			
												LEFT AREA	LEFT SIDE	RIGHT AREA	RIGHT SIDE
	FT	FT	SQ YD	SQ YD	SQ YD	SQ YD	TON	TON	TON	TON	TON	SQ YD	TON	SQ YD	TON
STA. 99 + 54 TO 99 + 84	32.00	30.00	106.67	106.67	14.44		0.06	0.32	4.49		9.00				
STA. 99 + 84 TO 102 + 48	32.00	264.00	938.67			938.67	0.49	2.82	39.50		79.16				
STA. 102 + 48 TO 103 + 69	30.00	121.00	403.33			403.33	0.21	1.21	16.98		34.02				
STA. 103 + 69 TO 103 + 78	30.00	9.00	30.00			30.00	0.02	0.09	1.26		2.53				
STA EQ 103+78 = 0+00															
STA. 0 + 00 TO 7 + 23	32.00	723.00	2570.67			2570.67	1.34	7.71	108.18		216.78				
STA. 7 + 23 TO 7 + 32	30.00	9.00	30.00			30.00	0.02	0.09	1.26		2.53				
STA. 7 + 32 TO 21 + 87	27.00	1455.00	4365.00			4365.00	2.27	13.10	183.75		368.36				
STA. 21 + 87 TO 23 + 87	27.00	200.00	600.00			666.67	0.34	1.93	25.26		50.63	66.67	8.66		
STA. 23 + 87 TO 57 + 30	27.00	3343.00	10029.00			10029.00	5.22	30.09	422.19		846.34				
STA. 57 + 30 TO 67 + 20	27.00	990.00	2970.00			3300.00	1.68	9.57	125.03		250.64			330.00	42.88
STA. 67 + 20 TO 336 + 20	27.00	26900.00	80700.00			80700.00	41.96	242.10	3397.25		6810.18				
STA. 336 + 20 TO 339 + 20	31.75	300.00	1058.33			1058.33	0.55	3.18	44.54		89.25				
STA. 339 + 20 TO 343 + 68	36.50	448.00	1816.89			1816.89	0.94	5.45	76.44		153.14				
STA. 343 + 68 TO 344 + 69	49.00	100.50	547.17			547.17	0.28	1.64	23.01		46.08				
STA. 344 + 69 TO 345 + 94	40.50	125.00	562.50			562.50	0.29	1.69	23.66		47.40				
STA. 345 + 94 TO 346 + 24	32.00	30.00	106.67	106.67	14.44		0.06	0.32	4.49		9.00				
<b>SIDE ROADS</b>															
PARK ST		23.00	109.62	87.60	13.89	22.02	0.06	0.33		11.51					
THOMAS ST		14.00	68.21	68.21	16.11		0.04	0.20		7.16					
E HENDERSON ST		20.00	88.41	88.41	15.56		0.05	0.27		9.28					
BUTLER ST		20.00	103.68	103.68	17.22		0.05	0.31		10.89					
E VAN BUREN ST		17.00	69.94	69.94	12.22		0.04	0.21		7.34					
N 7TH ST		10.00	121.83	121.83	50.00		0.06	0.37		12.79					
N GALENA AVE 1		7.00	72.58	72.58	43.89		0.04	0.22		7.62					
N GALENA AVE 2		16.00	129.86	129.86	27.78		0.07	0.39		13.64					
N MAIN AVE 1		12.00	105.29	105.29	33.33		0.05	0.32		11.06					
N MAIN AVE 2		19.00	147.30	147.30	26.67		0.08	0.44		15.47					
N MADISON AVE		6.00	61.00	61.00	44.44		0.03	0.18		6.41					
E WASHINGTON ST		17.00	82.67	82.67	15.00		0.04	0.25		8.68					
700 N RD		18.00	108.49	108.49	18.89		0.06	0.33		11.39					
1215 E RD		27.00	199.26	124.09	20.56	75.17	0.10	0.60		20.92					
1300 E RD		28.00	139.45	83.91	15.00	55.54	0.07	0.42		14.64					
1400 E RD 1		25.00	128.73	89.76	13.89	38.97	0.07	0.39		13.52					
1400 E RD 2		18.00	93.71	93.71	17.78		0.05	0.28		9.84					
1500 E RD 1		27.00	122.52	74.33	11.11	48.19	0.06	0.37		12.86					
1500 E RD 2		27.00	120.30	73.56	11.67	46.74	0.06	0.36		12.63					
1600 E RD 1		25.00	105.72	73.86	11.67	31.85	0.05	0.32		11.10					
1600 E RD 2		16.00	77.31	77.31	11.67		0.04	0.23		8.12					
IL 40		140.00	1138.87	85.30	13.89	1053.58	0.59	3.42	47.83		95.67				
1700 E RD		30.00	192.01	100.25	17.78	91.76	0.10	0.58		20.16					
<b>ENTRANCES</b>															
P.E. & C.E (27 TOTAL)			874.94				0.45	2.62		49.00					
MAILBOX TURNOUTS (6 TOTAL)			214.67				0.11	0.64		27.05					
ENTRANCE + MAILBOX TURNOUT (3 TOTAL)			107.33				0.06	0.32		13.52					
<b>GRAND-TOTAL</b>				<b>2,336</b>	<b>509</b>	<b>108,482</b>	<b>58</b>	<b>336</b>	<b>4,545</b>	<b>347</b>	<b>9,111</b>	<b>67</b>	<b>9</b>	<b>330</b>	<b>43</b>
<b>TOTAL</b>														<b>52</b>	

PRIME COAT CONVERSION FACTORS		
SURFACE TYPE	BIT PR COAT (GAL/SQ YD)	AGG PR COAT (LB/SQ YD)
COLD MILLED SURFACES	0.1	4
EXISTING PAVEMENT	0.05	4
NEW BITUMINOUS COURSES	0.03	2

BITUMINOUS & AGGREGATE CONVERSION FACTORS	
SURFACE TYPE	FACTORS
BIT. SURF. COURSES	112 LB /SQ YD/IN
ALL OTHER BIT.	112 LB /SQ YD/IN
AGGREGATE SHOULDERS	2.05 TONS/CUYD

FILE NAME = 0468747-sht-plan.dgn	USER NAME = mendej	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 100.0000' / IN.	CHECKED -	REVISED -
	PLOT DATE = 12/7/2009	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**RESURFACING QUANTITIES IL 17**

SCALE: NONE SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE. 643	SECTION (11,12)RS-2(6)WRS-3(10)RS-4	COUNTY STARK	TOTAL SHEETS 45	SHEET NO. 12
<b>CONTRACT NO. 68747</b>				
ILLINOIS FED. AID PROJECT				

**TABULATION OF RESURFACING QUANTITIES**

LOCATION	TOTAL ROADWAY WIDTH	LENGTH	AREA	HOT-MIX ASPHALT SURFACE REMOVAL BUTT JOINT	TEMPORARY RAMP	HOT-MIX ASPHALT SURFACE REMOVAL 1 IN	HOT-MIX ASPHALT SURFACE REMOVAL 1.5 IN	POL. BITUMINOUS MATERIALS PRIME COAT	AGGREGATE (PRIME COAT)	POL. LEVELING BINDER (MM)	INCIDENTAL HOT-MIX ASPHALT SURFACING	HOT-MIX ASPHALT SURFACE CSE MX D, N50	HOT-MIX ASPHALT SURFACE COURSE MX C, N30				
													BITUMINOUS SHOULDERS				
													LEFT AREA	LEFT SIDE	RIGHT AREA	RIGHT SIDE	
FT	FT	SQ YD	SQ YD	SQ YD	SQ YD	TON	TON	TON	TON	TON	TON	TON	SQ YD	TON	SQ YD	TON	
STA. 0 + 39 TO 0 + 69	30.00	30.00	100.00	88.67	14.44			0.05	0.30	4.21		8.44					
STA. 0 + 69 TO 2 + 19	30.00	149.70	499.00			499.00		0.26	1.50	21.00		42.09					
STA. 2 + 19 TO 3 + 32	26.00	113.10	326.73			377.00		0.19	1.08	13.76		27.58	50.27	6.48			
STA. 3 + 32 TO 13 + 59	26.00	1027.20	2987.47			3652.27		1.82	10.27	124.93		250.47	342.40	44.49	342.40	44.49	
STA. 13 + 59 TO 60 + 65	26.00	4708.00	13595.11			13595.11		7.07	40.79	572.37		1147.48					
STA. 60 + 65 TO 61 + 17	26.00	52.00	150.22			173.33		0.09	0.50	6.32		12.68	23.11	2.98			
STA. 61 + 17 TO 62 + 22	26.00	105.00	303.33			373.33		0.19	1.05	12.77		25.60	35.00	4.55	35.00	4.55	
STA. 62 + 22 TO 62 + 52	32.00	30.00	106.67	106.67	14.44			0.06	0.32	4.49		9.00					
STA. 62 + 52 TO 62 + 54	32.00	2.00	7.11	7.11	14.44			0.00	0.02	0.30		0.60					
STA. 62 + 54 TO 63 + 59	32.00	105.00	373.33				373.33	0.19	1.12	15.71		31.48					
STA. 63 + 59 TO 63 + 61	32.00	2.00	7.11	7.11	14.44			0.00	0.02	0.30		0.60					
STA. 63 + 61 TO 63 + 63	32.00	2.00	7.11	7.11	14.44			0.00	0.02	0.30		0.60					
STA. 63 + 63 TO 64 + 68	32.00	105.00	373.33				373.33	0.19	1.12	15.71		31.48					
STA. 64 + 68 TO 64 + 70	32.00	2.00	7.11	7.11	14.44			0.00	0.02	0.30		0.60					
STA. 64 + 70 TO 65 + 00	32.00	30.00	106.67	106.67	14.44			0.06	0.32	4.49		9.00					
STA. 65 + 00 TO 65 + 49	26.00	49.00	141.56			174.22		0.09	0.49	5.96		11.95	16.33	2.12	16.33	2.12	
STA. 65 + 49 TO 104 + 10	26.00	3861.00	11154.00			11154.00		5.80	33.46	469.59		941.44					
STA. 104 + 10 TO 112 + 12	26.00	802.00	2316.89			2316.89		1.20	6.95	97.54		195.55					
STA. 112 + 12 TO 142 + 28	26.00	3016.00	8712.89			8712.89		4.53	26.14	366.82		735.40					
STA. 142 + 28 TO 151 + 16	26.00	888.00	2565.33			2960.00		1.49	8.49	108.00		216.52	394.67	50.89			
STA EQ 151+15.45 (BK) = 135+35.35 (AH)																	
STA. 135 + 35 TO 138 + 08	26.00	273.00	788.67			910.00		0.46	2.61	33.20		68.57	121.33	15.65			
STA. 138 + 08 TO 177 + 63	26.00	3955.00	11425.56			11425.56		5.94	34.28	481.03		964.36					
STA. 177 + 63 TO 187 + 54	26.00	991.00	2862.89			3303.33		1.66	9.47	120.53		241.64			440.44	56.80	
STA. 187 + 54 TO 209 + 22	26.00	2168.00	6263.11			6263.11		3.26	18.79	263.68		528.63					
STA. 209 + 22 TO 220 + 84	26.00	1162.00	3356.89			3873.33		1.95	11.10	141.33		283.33	516.44	66.60			
STA EQ 220+84.30 (BK) = 204+98.10 (AH)																	
STA. 204 + 98 TO 279 + 73	26.00	7475.00	21594.44			21594.44		11.23	64.78	909.15		1822.65					
STA. 279 + 73 TO 280 + 51	29.50	78.00	255.67			255.67		0.13	0.77	10.76		21.57					
STA. 280 + 51 TO 284 + 61	32.00	410.00	1457.78			1457.78		0.76	4.37	61.35		122.93					
STA. 284 + 61 TO 285 + 45	32.00	84.00	298.67			298.67		0.16	0.90	12.57		25.19					
STA. 285 + 45 TO 285 + 75	32.00	30.00	106.67	106.67	14.44			0.06	0.32	4.49		9.00					
<b>SIDE ROADS</b>																	
N6TH ST		22.00	83.63	70.37	11.11	13.26		0.04	0.25		8.78						
S6TH ST		28.00	112.98	65.36	11.11	47.62		0.06	0.34		11.86						
N5TH ST		25.00	107.88	76.85	14.44	31.03		0.06	0.32		11.33						
S5TH ST		23.00	106.17	85.31	14.44	20.86		0.06	0.32		11.15						
N4TH ST		25.00	102.64	72.47	12.22	30.17		0.05	0.31		10.78						
S4TH ST		30.00	113.64	59.46	11.11	54.18		0.06	0.34		11.93						
N3RD ST		20.00	73.87	73.87	11.11			0.04	0.22		7.76						
S3RD ST		20.00	82.80	82.80	11.67			0.04	0.25		8.69						
S1ST ST		23.00	112.34	91.74	18.33	20.60		0.06	0.34		11.80						
900 E RD (1)		10.00	82.78	82.78	19.67			0.04	0.25		8.69						
900 E RD (2)		5.00	56.67	56.67	34.00			0.03	0.17		5.95						
700 N RD		6.00	82.67	82.67	12.67			0.04	0.25		8.68						
800 E RD (1)		5.00	55.56	55.56	33.33			0.03	0.17		5.83						
750 N RD		5.00	51.11	51.11	30.67			0.03	0.15		5.37						
800 E RD (2)		5.00	59.44	59.44	35.67			0.03	0.18		6.24						
800 N RD (1)		5.00	73.89	73.89	44.33			0.04	0.22		7.76						
800 N RD (2)		5.00	25.56	25.56	13.33			0.01	0.08		2.68						
DOWNEND RD (1)		25.00	104.02	72.22	11.67	31.80		0.05	0.31		10.96						
DOWNEND RD (2)		19.00	67.76	67.76	11.11			0.04	0.20		7.11						
MUSSELMAN RD		17.00	61.49	61.49	10.58			0.03	0.18		6.46						
S EAST RD (1)		18.00	68.30	68.30	11.67			0.04	0.20		7.17						
S EAST RD (2)		5.00	28.89	28.89	17.33			0.02	0.09		3.03						
UNION ST (1)		81.00	644.39	125.22	13.89	519.16		0.34	1.93		67.66						
UNION ST (2)		18.00	67.08	67.08	29.44			0.03	0.20		7.04						
ARROWHEAD DR		30.00	143.66	72.30	10.00	71.36		0.07	0.43		15.08						
<b>ENTRANCES</b>																	
C.E. & P.E. (35 TOTAL)			730.72					0.38	2.19		40.92						
MAILBOX TURN OUT (5 TOTAL)			196.01					0.10	0.59		24.70						
MAILBOX TURN OUT + ENTRNCE (2 TOTAL)			71.56					0.04	0.21		9.02						
<b>GRAND-TOTAL</b>				<b>2,025</b>	<b>531</b>	<b>94,210</b>	<b>747</b>	<b>50</b>	<b>288</b>	<b>3,883</b>	<b>344</b>	<b>7,784</b>	<b>1,500</b>	<b>194</b>	<b>834</b>	<b>108</b>	<b>302</b>

PRIME COAT CONVERSION FACTORS		
SURFACE TYPE	BIT PR COAT (GAL/SQ YD)	AGG PR COAT (LB/SQ YD)
COLD MILLED SURFACES	0.1	4
EXISTING PAVEMENT	0.05	4
NEW BITUMINOUS COURSES	0.03	2

BITUMINOUS & AGGREGATE CONVERSION FACTORS	
SURFACE TYPE	FACTORS
BIT. SURF. COURSES	112 LB /SQ YD/IN
ALL OTHER BIT.	112 LB /SQ YD/IN
AGGREGATE SHOULDERS	2.05 TONS/CUYD

FILE NAME = D468747-sht-plan.dgn	USER NAME = mendejzj	DESIGNED -	REVISED -
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		DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**RESURFACING QUANTITIES IL 17/91**

SCALE: NONE SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE. 643	SECTION (11,12) RS-2; (6W) RS-3	COUNTY STARK	TOTAL SHEETS 45	SHEET NO. 13
CONTRACT NO. 68747				
ILLINOIS FED. AID PROJECT				

CONSTRUCTING TEST STRIP	
LOCATION	40600895 EACH
ENTIRE PROJECT	1
TOTAL	1

MATERIAL TRANSFER DEVICE	
LOCATION	X0300729 TON
IL 17/91	7,784
IL17	9,111
TOTAL	16,895

SHOULDER RUMBLE STRIPS		
LOCATION STATION TO STATION	LENGTH FOOT	64200105 FOOT
IL 17/91		
RT STA 104+09.96 TO RT STA 112+12.29	802.33	802.33
RT STA 176+62.60 TO RT STA 185+49.10	886.50	886.50
LT STA 209+22.00 TO LT STA 220+84.30	1162.30	1162.30
IL 17		
RT STA 57+30 TO RT STA 67+20	990.00	990.00
TOTAL		3,841

MOWING	
LOCATION	X2503100 UNIT
ENTIRE PROJECT	670
TOTAL	670

AGGREGATE SHOULDER, TYPE B		
LOCATION STATION TO STATION	LENGTH FOOT	48101200 TON
IL 17/91		
LT&RT STA 00+39 TO STA 151+15.45	15,076.45	929
STA EQ 151+15.45 = 135+35.35		
LT&RT STA 135+35.35 TO STA 220+84.30	8,548.95	527
STA EQ 220+84.30 = 204+98.10		
LT&RT STA 204+98.10 TO STA 285+75	8,076.90	498
IL 17		
LT&RT STA 7+32 TO STA 346+94	33,962.00	2094
TOTAL		4,048

MOBILIZATION	
LOCATION	67100100 L SUM
ENTIRE PROJECT	1
TOTAL	1

TRAFFIC CONTROL SCHEDULE			
LOCATION	70100500 TRAFFIC CONTROL AND PROTECTION, STANDARD 701326	70100480 TRAFFIC CONTROL AND PROTECTION, STANDARD 701306	70100600 TRAFFIC CONTROL AND PROTECTION, STANDARD 701336
	L SUM	L SUM	L SUM
ENTIRE PROJECT	1	1	1
TOTALS	1	1	1

HOT-MIX ASPHALT SHOULDER, 8"		
LOCATION STATION TO STATION	AREA SQ FT	48203029 SQ YD
IL 17/91		
RT STA 104+09.96 TO RT STA 112+12.29	2406.99	267.4
RT STA 176+62.6 TO RT STA 177+62.6	300	33.3
LT STA 268+47.5 TO LT STA 272+57	1228.5	136.5
TOTAL		437

CLASS D PATCHES, 14 INCH			
LOCATION STATION TO STATION	44201815 TYPE II (SQ YD)	44201819 TYPE III (SQ YD)	44201821 TYPE IV (SQ YD)
IL 17/91			
STA 2+00 TO STA 151+15.45	109	17	29
STA EQ 151+15.45 = 135+35.35			
STA 135+35.35 TO STA 220+84.30	69		29
STA EQ 220+84.30 = 204+98.10			
STA 204+98.10 TO STA 285+70	35		29
IL 17			
FROM IL 17/91 W TO 1215 E RD	368		
FROM 1215 E RD TO 1300 E RD	267		
FROM 1300 E RD TO 1400 E RD	203		
FROM 1400 E RD TO 1500 E RD	240		
FROM 1500 E RD TO 1600 E RD	459		
FROM 1600 E RD TO IL 40	347		
TOTALS	2,096	17	87

PERMANENT SURVEY MARKERS	
LOCATION	66700095 EACH
ENTIRE PROJECT	12
TOTAL	12

PERMANENT SURVEY TIES	
LOCATION	66700605 EACH
ENTIRE PROJECT	48
TOTAL	48

PAVED SHOULDER REMOVAL		
LOCATION STATION TO STATION	AREA SQ FT	44004250 SQ YD
IL 17/91		
RT STA 104+09.96 TO RT STA 112+12.29	2,407	267.4
TOTAL		267

FILE NAME =  
D468747-shr-plan.dgn

USER NAME = mendezej

DESIGNED -

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PLOT SCALE = 1/8"=1'-0"

PLOT DATE = 12/7/2009

CHECKED -

REVISED -

DATE -

REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES

SCALE: NONE SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
643	(L1,12)RS-2;(6W)RS-3;(10)RS-4	STARK	45	14
CONTRACT NO. 68747			ILLINOIS FED. AID PROJECT	

TEMPORARY / EPOXY PAVEMENT MARKING - LINE 4"						
LOCATION STATION TO STATION	NO PASSING ZONE	LENGTH FOOT	WHITE SOLID LINE FOOT	YELLOW SKIP DASH FOOT	YELLOW SOLID FOOT	DOUBLE YELLOW FOOT
IL 17						
STA 99+54 TO STA 103+78		424	848	110		
STA EQ 103+78 = 00+00						
STA 00+00 TO STA 49+68		4968	9936	1240		
STA 49+68 TO STA 60+00	RT	1032	2064	260	1032	
STA 60+00 TO STA 78+00		1800	3600			3600
STA 78+00 TO STA 86+62	LT	862	1724	220	862	
STA 86+62 TO STA 105+77		1915	3830	480		
STA 105+77 TO STA 115+43	RT	966	1932	240	966	
STA 115+43 TO STA 124+13	LT	870	1740	220	870	
STA 124+13 TO STA 155+64		3151	6302	790	3151	
STA 155+64 TO STA 162+67	RT	703	1406	180	703	
STA 162+67 TO STA 164+00		133	266			266
STA 164+00 TO STA 174+73	LT	1073	2146	270	1073	
STA 174+73 TO STA 181+20		647	1294	160		
STA 181+20 TO STA 195+10	LT	1390	2780	350	1390	
STA 195+10 TO STA 208+59		1349	2698			2698
STA 208+59 TO STA 219+91	LT	1132	2264	280	1132	
STA 219+91 TO STA 221+77		186	372	50		
STA 221+77 TO STA 235+12	RT	1335	2670	330	1335	
STA 235+12 TO STA 237+61		249	498			498
STA 237+61 TO STA 246+00	LT	839	1678	210	839	
STA 246+00 TO STA 261+05		1505	3010	380		
STA 261+05 TO STA 271+83	RT	1078	2156	270	1078	
STA 271+83 TO STA 282+50	LT	1067	2134	270	1067	
STA 282+50 TO STA 317+05		3455	6910	860		
STA 317+05 TO STA 325+75	RT	870	1740	220	870	
STA 325+75 TO STA 336+20		1045	2090			2090
STA 336+20 TO STA 341+00		480	960			1946
STA 341+00 TO STA 342+00		100	200			200
STA 342+78.32 TO STA 346+68.58		390	781			1598
IL 40		94				188
SUB-TOTAL			70029	7390	16368	11,298
TOTAL						105,085

TEMPORARY / EPOXY PAVEMENT MARKING - LINE 4"						
LOCATION STATION TO STATION	NO PASSING ZONE	LENGTH FOOT	WHITE SOLID LINE FOOT	YELLOW SKIP DASH FOOT	YELLOW SOLID FOOT	DOUBLE YELLOW FOOT
IL 17/91						
STA 00+39 TO STA 30+38		2999	5998	750		
STA 30+38 TO STA 38+15	RT	777	1554	190	777	
STA 38+15 TO STA 60+00		2185	4370			4370
STA 60+00 TO STA 69+33	LT	933	1866	230	933	
STA 69+33 TO STA 91+35		2202	4404	550		
STA 91+35 TO STA 98+85	RT	750	1500	190	750	
STA 98+85 TO STA 115+05		1620	3240			3240
STA 115+05 TO STA 122+35	LT	730	1460	180	730	
STA 122+35 TO STA 143+00		2065	4130	520		
STA 143+00 TO STA 150+15		715	1430			1430
STA 150+15 TO STA 151+15.45	LT	100.45	201	30	100	
STA EQ 151+15.45 = 135+35.35						
STA 135+35.35 TO STA 142+85	LT	749.65	1499	190	750	
STA 142+85 TO STA 172+50		2965	5930	740		
STA 172+50 TO STA 178+15	RT	565	1130	140	565	
STA 175+15 TO STA 186+15		1100	2200			2200
STA 186+15 TO STA 193+15	LT	700	1400	180	700	
STA 193+15 TO STA 201+88		873	1746	220		
STA 201+88 TO STA 207+05	RT	517	1034	130	517	
STA 207+05 TO STA 220+15		1310	2620			2620
STA 220 +15 TO STA 220+84.30	LT	69.3	139	20	69	
STA EQ 220+84.30 = 204+98.10						
STA 204+98.10 TO STA 212+85	LT	786.9	1574	200	787	
STA 212+85 TO STA 266+10		5325	10650	1330		
STA 266+10 TO 271+00	RT	490	980	120	490	
STA 271+00 TO STA 285+75		1475	2950			2950
UNION ST		81				162
SUB-TOTAL			64005	5910	7168	16972
TOTAL						94,055

EPOXY PAVEMENT MARKING - LINE 8"		
LOCATION STATION TO STATION	WHITE SOLID FOOT	
IL 17		
STA 341+00 TO STA 342+00	100	
LT STA 341+85.5 TO STA 342+29.17	144	
LT STA 342+57.3 TO STA 343+35.2	239	
LT STA 343+35.20 TO STA 344+68.55	133	
TOTAL		616

TEMPORARY PAVEMENT MARKING - LINE 8"		
LOCATION STATION TO STATION	WHITE SOLID FOOT	
IL 17		
STA 341+00 TO STA 342+00	100	
LT STA 341+85.5 TO STA 342+29.17	144	
LT STA 342+57.3 TO STA 343+35.2	239	
LT STA 343+35.20 TO STA 344+68.55	133	
TOTAL		616

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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

SCHEDULE OF QUANTITIES			
SCALE:	SHEET NO.	OF	SHEETS
NONE			

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
643	(11,12)RS-2(GW)RS-3(10)RS-4	STARK	45	15
CONTRACT NO. 68747				
ILLINOIS FED. AID PROJECT				





GUARDRAIL MARKERS, TYPE A	
LOCATION STATION TO STATION	78200410 EACH
IL 17	
LT STA 80+12	1.00
LT STA 80+62	1.00
LT STA 87+04	1.00
LT STA 87+54	1.00
RT STA 147+22	1.00
RT STA 147+72	1.00
RT STA 147+33	1.00
LT STA 147+83	1.00
RT STA 186+35	1.00
LT STA 186+62	1.00
RT STA 186+85	1.00
LT STA 187+12	1.00
RT STA 246+10	1.00
RT STA 246+60	1.00
LT STA 246+45	1.00
LT STA 246+95	1.00
RT STA 252+60	1.00
RT STA 253+10	1.00
LT STA 252+83	1.00
LT STA 253+33	1.00
LT STA 288+49	1.00
RT STA 288+49	1.00
LT STA 290+18	1.00
LT STA 290+68	1.00
RT STA 313+26	1.00
RT STA 313+76	1.00
LT STA 313+87	1.00
<b>TOTAL</b>	<b>27</b>

TERMINAL MARKER-DIRECT APPLIED	
LOCATION	78201000 EACH
IL 17	
LT STA 79+62	1.00
LT STA 81+12	1.00
LT STA 86+54	1.00
LT STA 88+04	1.00
RT STA 146+72	1.00
RT STA 148+22	1.00
LT STA 146+83	1.00
LT STA 148+33	1.00
RT STA 185+85	1.00
LT STA 186+12	1.00
RT STA 187+35	1.00
LT STA 187+62	1.00
RT STA 245+60	1.00
RT STA 247+10	1.00
LT STA 245+95	1.00
LT STA 247+45	1.00
RT STA 252+10	1.00
RT STA 253+60	1.00
LT STA 252+33	1.00
LT STA 253+83	1.00
LT STA 287+99	1.00
RT STA 287+99	1.00
LT STA 289+68	1.00
LT STA 291+18	1.00
RT STA 312+76	1.00
RT STA 314+26	1.00
LT STA 313+37	1.00
<b>TOTAL</b>	<b>27</b>

TRAFFIC BARRIER TERMINAL TYPE 1, SPECIAL (TANGENT)		
LOCATION STATION TO STATION	LENGTH FOOT	63100167 EACH
IL 17		
LT STA 79+62 TO LT STA 80+12	50	1.00
LT STA 80+62 TO LT STA 81+12	50	1.00
LT STA 86+54 TO STA 87+04	50	1.00
LT STA 87+54 TO LT STA 88+04	50	1.00
RT STA 146+72 TO RT STA 147+22	50	1.00
RT STA 147+72 TO RT STA 148+22	50	1.00
LT STA 146+83 TO RT STA 147+33	50	1.00
LT STA 147+83 TO LT STA 148+33	50	1.00
RT STA 185+85 TO RT STA 186+35	50	1.00
LT STA 186+12 TO LT STA 186+62	50	1.00
RT STA 186+85 TO RT STA 187+35	50	1.00
LT STA 187+12 TO LT STA 187+62	50	1.00
RT STA 245+60 TO RT STA 246+10	50	1.00
RT STA 246+60 TO RT STA 247+10	50	1.00
LT STA 245+95 TO LT STA 246+45	50	1.00
LT STA 246+95 TO LT STA 247+45	50	1.00
RT STA 252+10 TO RT STA 252+60	50	1.00
RT STA 253+10 TO RT STA 253+60	50	1.00
LT STA 252+33 TO LT STA 252+83	50	1.00
LT STA 253+33 TO LT STA 253+83	50	1.00
LT STA 287+99 TO LT STA 288+49	50	1.00
RT STA 287+99 TO RT STA 288+49	50	1.00
LT STA 289+68 TO LT 290+18	50	1.00
LT STA 290+68 TO LT STA 291+18	50	1.00
RT STA 312+76 TO RT STA 313+26	50	1.00
RT STA 313+76 TO RT STA 314+26	50	1.00
LT STA 313+37 TO STA 313+87	50	1.00
<b>TOTAL</b>		<b>27</b>

STEEL PLATE BEAM GUARDRAIL REMOVAL SINGLE RAIL		
LOCATION STATION TO STATION	LENGTH FOOT	63200600 FOOT
IL 17		
RT STA 186+47.50 TO LT STA 186+72.50	25	25
LT STA 186+74.50 TO LT STA 186+99.50	25	25
<b>TOTAL</b>		<b>50</b>

FURNISHING AND INSTALLING RAIL ELEMENTS PLATES		
LOCATION STATION TO STATION	LENGTH FOOT	Z0025550 FOOT
IL 17		
RT STA 186+47.50 TO LT STA 186+72.50	25	25
LT STA 186+74.50 TO LT STA 186+99.50	25	25
<b>TOTAL</b>		<b>50</b>

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	PLOT SCALE = 180.0000 ' / IN.	CHECKED -	REVISED -
	PLOT DATE = 12/7/2009	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES

SCALE: NONE SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
643	(11,12)RS-2;(6)WRS-3;(10)RS-4	STARK	45	17
CONTRACT NO. 68747				
ILLINOIS FED. AID PROJECT				

GUARDRAIL AGGREGATE EROSION CONTROL	
LOCATION	X0301512 TON
IL 17	
LT STA 79+62 TO STA 81+46	39.28
LT STA 86+20 TO STA 88+28	39.28
RT STA 146+38 TO STA 148+56	39.28
LT STA 146+49 TO STA 148+67	39.28
RT STA 185+51 TO STA 186+47.50	17.11
LT STA 185+78 TO STA 186+74.50	17.11
RT STA 186+72.5 TO STA 187+69	17.11
LT STA 186+99.50 TO STA 187+96	17.11
RT STA 245+26 TO STA 247+44	39.28
LT STA 245+61 TO STA 247+79	39.28
RT STA 251+76 TO STA 253+94	39.28
LT STA 251+99 TO STA 254+17	39.28
LT STA 289+68 TO STA 291+18	39.28
LT STA 287+99 TO STA 288+49	14.58
RT STA 287+99 TO STA 288+49	14.58
RT STA 312+76 TO STA 314+26	39.28
LT STA 313+37 TO STA 313+87	14.58
<b>TOTAL</b>	<b>505</b>

GUARDRAIL REMOVAL		
LOCATION STATION TO STATION	LENGTH FOOT	63200310 FOOT
IL 17		
LT STA 79+87 TO LT STA 80+87	100	100.00
LT STA 86+79 TO LT STA 87+79	100	100.00
RT STA 146+97 TO RT STA 147+97	100	100.00
LT STA 147+08 TO LT STA 148+08	100	100.00
RT STA 186+10 TO RT STA 186+47.50	37.5	37.50
LT STA 186+37 TO LT STA 186+74.5	37.5	37.50
RT STA 186+72.50 TO RT STA 187+10	37.5	37.50
LT STA 186+99.50 TO LT STA 187+37	37.5	37.50
RT STA 245+85 TO RT STA 246+85	100	100.00
LT STA 246+20 TO LT STA 247+20	100	100.00
RT STA 252+35 TO RT STA 253+35	100	100.00
LT STA 252+58 TO LT STA 253+58	100	100.00
LT STA 288+24 TO LT STA 288+49	25	25.00
RT STA 288+24 TO RT STA 288+49	25	25.00
LT STA 289+93 TO LT STA 290+93	100	100.00
RT STA 313+01 TO RT STA 314+01	100	100.00
LT STA 313+62 TO STA 313+87	25	25.00
<b>TOTAL</b>		<b>1,225</b>

RAISED REFLECTIVE PAVEMENT MARKERS	
LOCATION STATION TO STATION	78100100 EACH
IL 17/91	
STA 00+39 TO STA 50+86.99	63
STA 50+86.99 TO STA 60+39.14	24
STA 60+39.14 TO STA 70+23.18	12
STA 70+23.18 TO STA 77+16.18	17
STA 77+16.18 TO STA 104+09.96	34
STA 104+09.96 TO STA 112+12.29	20
STA 112+12.29 TO STA 142+41.80	38
STA 142+41.80 TO STA 151+15.45	22
STA EQ 151+15.45 = 135+35.35	
STA 135+35.35 TO STA 177+62.60	53
STA 177+62.60 TO STA 185+49.10	20
STA 185+49.10 TO STA 208+93.10	29
STA 208+93.10 TO STA 220+84.30	30
STA EQ 220+84.30 = STA 204+98.10	
STA 204+98.10 TO STA 285+75	101
IL 17	
STA 99+54 TO STA 103+78	5
STA EQ 103+78=00+00	
STA 00+00 TO STA 57+43.12	72
STA 57+43.12 TO STA 66+99.02	24
STA 66+99.02 TO STA 346+24	350
<b>TOTAL</b>	<b>914</b>

STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POST		
LOCATION STATION TO STATION	LENGTH FOOT	63000001 FOOT
IL 17		
LT STA 80+12 TO LT STA 80+62	50	50.00
LT STA 87+04 TO LT STA 87+54	50	50.00
RT STA 147+22 TO RT STA 147+72	50	50.00
LT STA 147+33 TO LT STA 147+83	50	50.00
RT STA 186+35 TO RT STA 186+47.50	12.5	12.50
LT STA 186+62 TO LT STA 186+74.50	12.5	12.50
RT STA 186+72.50 TO RT STA 186+85	12.5	12.50
LT STA 186+99.50 TO RT STA 187+12	12.5	12.50
RT STA 246+10 TO RT STA 246+60	50	50.00
LT STA 246+45 TO LT STA 246+95	50	50.00
RT STA 252+60 TO RT STA 253+10	50	50.00
LT STA 252+83 TO LT STA 253+33	50	50.00
LT STA 290+18 TO LT STA 290+68	50	50.00
RT STA 313+26 TO RT STA 313+76	50	50.00
<b>TOTAL</b>		<b>550</b>

STRIP REFLECTIVE CRACK CONTROL	
LOCATION STATION TO STATION	44300200 FT
IL 17/91	
STA 00+39 TO STA 151+15.45	15,076
STA EQ 151+15.45 = 135+35.35	
STA 135+35.35 TO STA 220+84.30	8,549
STA EQ 220+84.30 = 204+98.10	
STA 204+98.10 TO STA 285+75	8,077
IL 17	
STA 99+54 TO STA 103+78	424
STA EQ 103+78 = 00+00	
STA 00+00 TO STA 346+24	34,624.00
<b>SUB-TOTAL</b>	<b>66,750</b>
<b>TOTAL (BOTH SIDES)</b>	<b>133,501</b>

RAISED REFLECTIVE PAVEMENT MARKERS REMOVAL	
LOCATION STATION TO STATION	78300200 EACH
IL 17/91	393
IL 17	370
<b>TOTAL</b>	<b>763</b>

FILE NAME = D468747-shr-plan.dgn

USER NAME = mendezpj

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PLOT SCALE = 1/8"=1'-0"

CHECKED -

REVISED -

PLOT DATE = 12/7/2009

DATE -

REVISED -

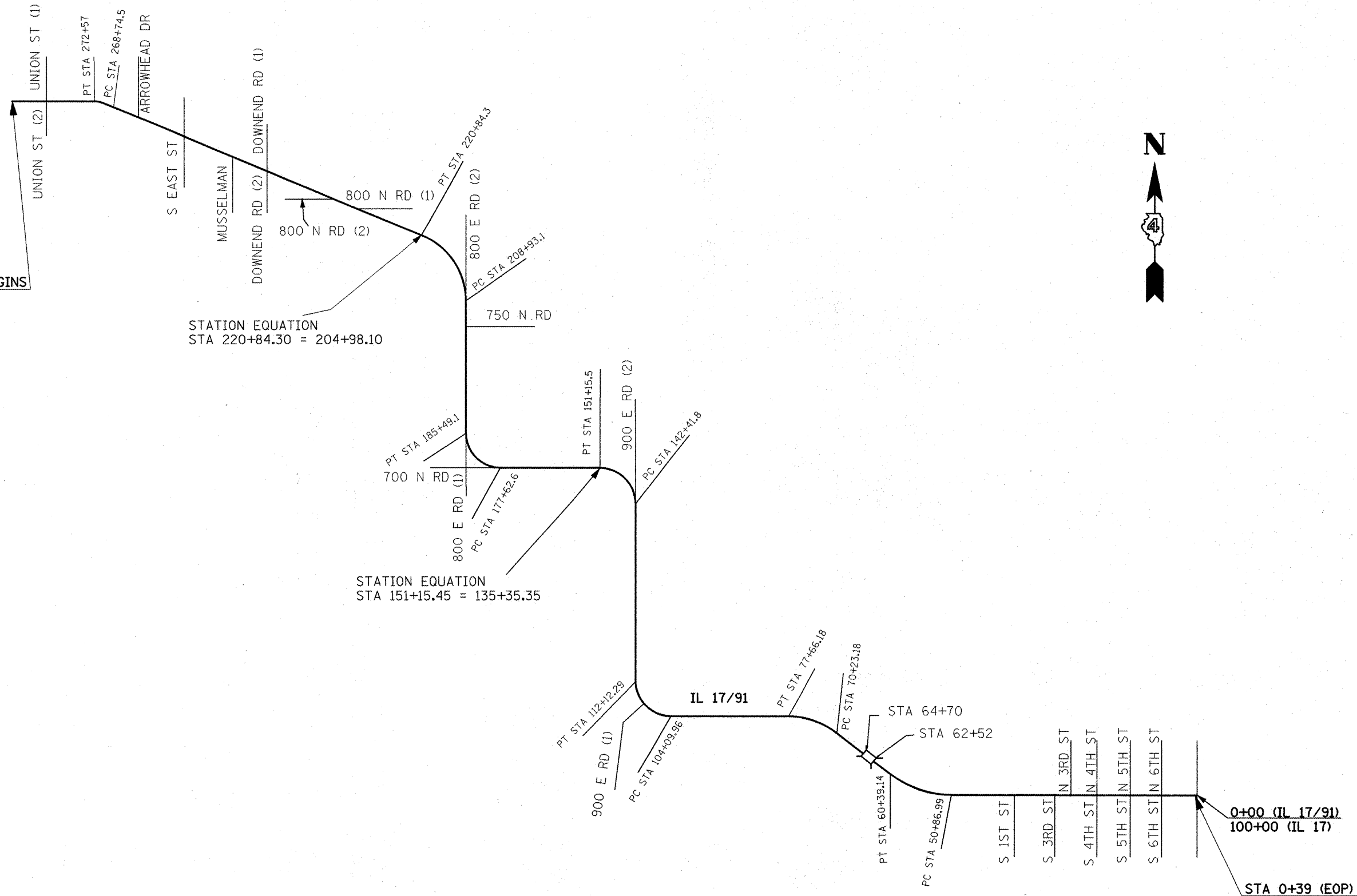
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES

SCALE: NONE SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
643	1L12/RS-2(6W)RS-3(10)RS-4	STARK	45	18
CONTRACT NO. 68747			ILLINOIS FED. AID PROJECT	

PROJECT BEGINS  
STA 285+75



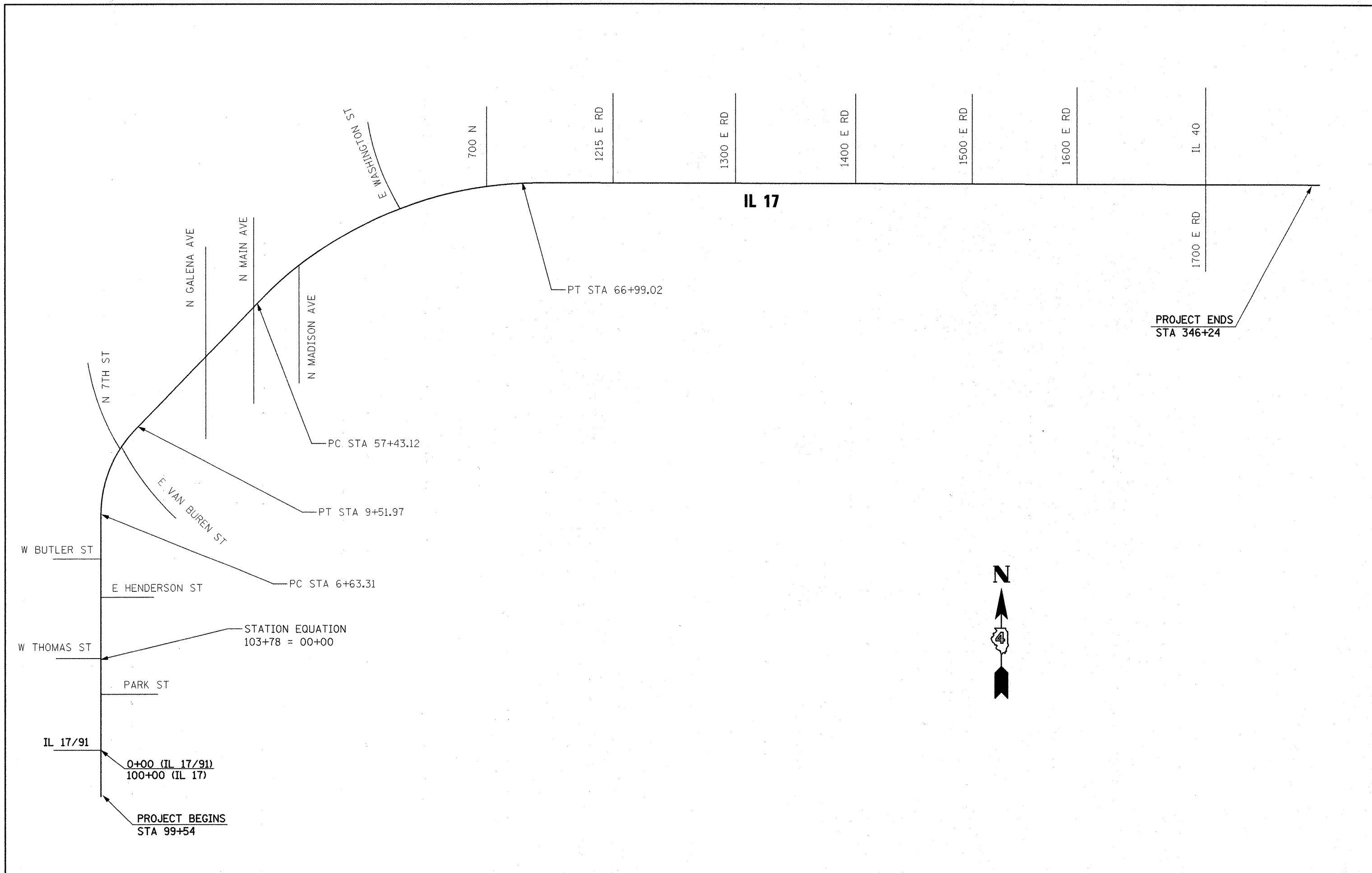
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		CHECKED -	REVISED -
		DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**LINE DIAGRAM IL 17/91**

SCALE: NONE    SHEET NO. OF SHEETS    STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
643	(11,12)RS-2+(6)WS-3+(10)RS-4	STARK	45	19
CONTRACT NO. 68747			ILLINOIS FED. AID PROJECT	



FILE NAME =  
D468747-shr-plan.dgn

USER NAME = mendezp.j  
PLOT SCALE = 100.0000 / IN.  
PLOT DATE = 12/7/2009

DESIGNED -  
DRAWN -  
CHECKED -  
DATE -

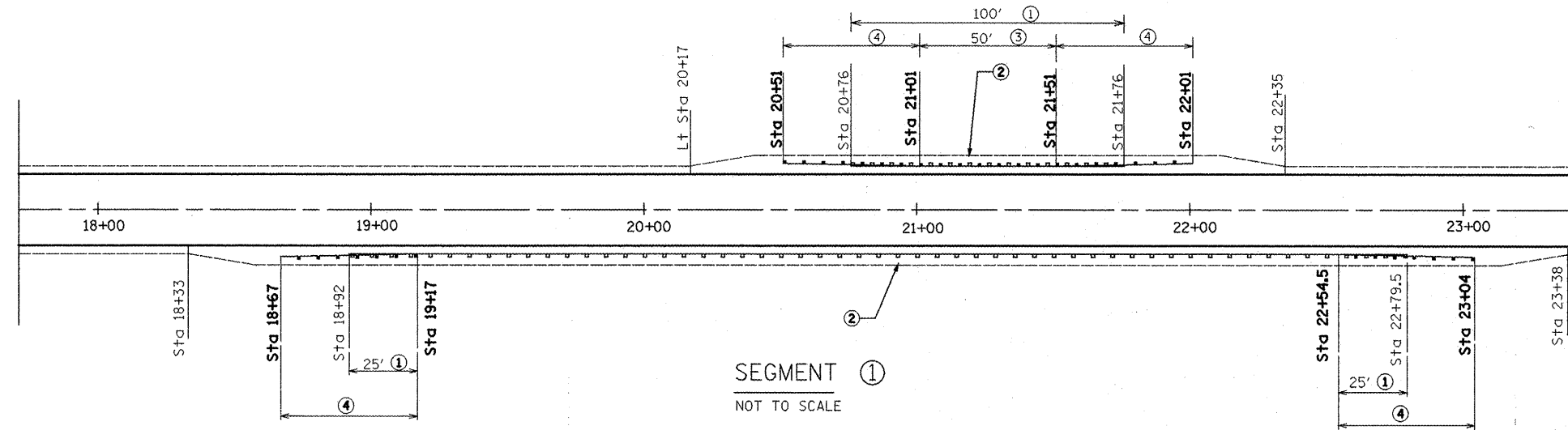
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REVISED -  
REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**LINE DIAGRAM IL 17**

SCALE: NONE SHEET NO. OF SHEETS STA. TO STA.

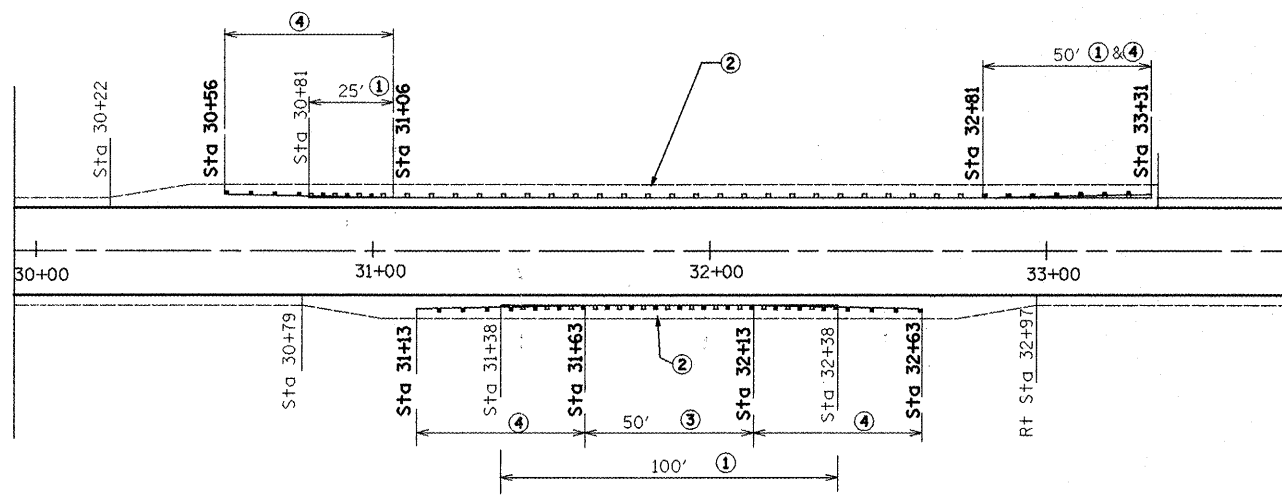
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
643	(11,12)RS-2;(6)WRS-3;(10)RS-4	STARK	45	20
CONTRACT NO. 68747				
ILLINOIS FED. AID PROJECT				



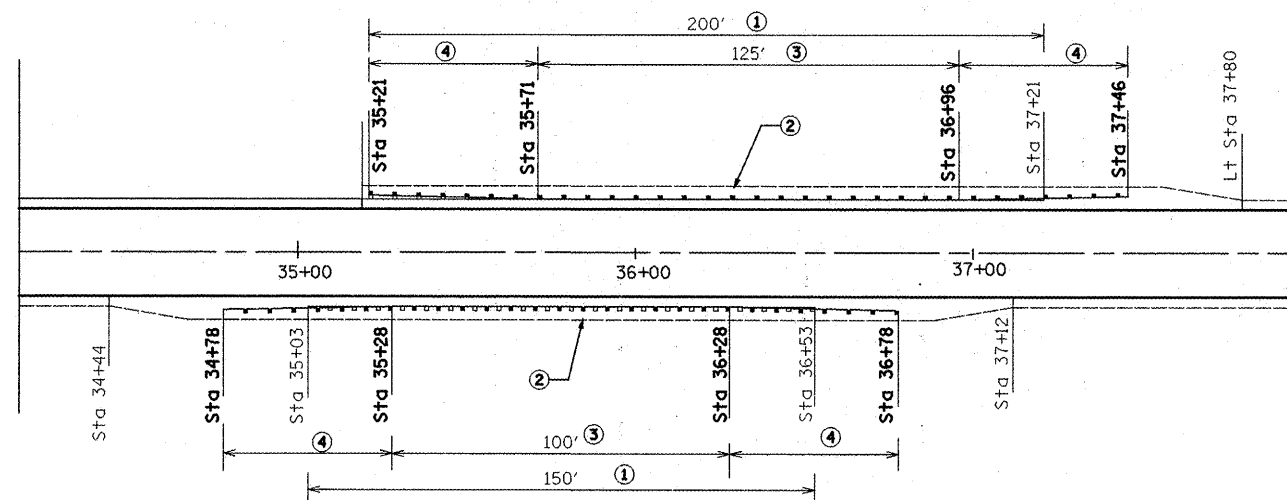
SEGMENT ①  
NOT TO SCALE

**LEGEND**

- ① GUARDRAIL REMOVAL
- ② GUARDRAIL AGGREGATE EROSION CONTROL
- ③ STEEL PLATE BEAM GUARDRAIL TYPE A, 6 FOOT POSTS
- ④ TRAFFIC BARRIER TERMINAL TYPE 1 (SPECIAL) TANGENT
- ⑤ EXISTING TERMINAL SECTION



SEGMENT ②  
NOT TO SCALE



SEGMENT ③  
NOT TO SCALE

SEGMENT ①

SEGMENT ②

SEGMENT ③

ITEM	UNIT	QUANTITY
GUARDRAIL REMOVAL	FOOT	150.00
GUARDRAIL AGGREGATE EROSION CONTROL	TON	137.00
STEEL PLATE BEAM GUARDRAIL TYPE A, 6 FEET POSTS	FOOT	50.00
TRAFFIC BARRIER TERMINAL TYPE 1 (SPECIAL) TANGENT	EACH	4.00
GUARDRAIL MARKER, TYPE A	EACH	4.00
TERMINAL MARKER DIRECT APPLIED	EACH	4.00

ITEM	UNIT	QUANTITY
GUARDRAIL REMOVAL	FOOT	150.00
GUARDRAIL AGGREGATE EROSION CONTROL	TON	100.00
STEEL PLATE BEAM GUARDRAIL TYPE A, 6 FEET POSTS	FOOT	50.00
TRAFFIC BARRIER TERMINAL TYPE 1 (SPECIAL) TANGENT	EACH	4.00
GUARDRAIL MARKER, TYPE A	EACH	4.00
TERMINAL MARKER DIRECT APPLIED	EACH	4.00

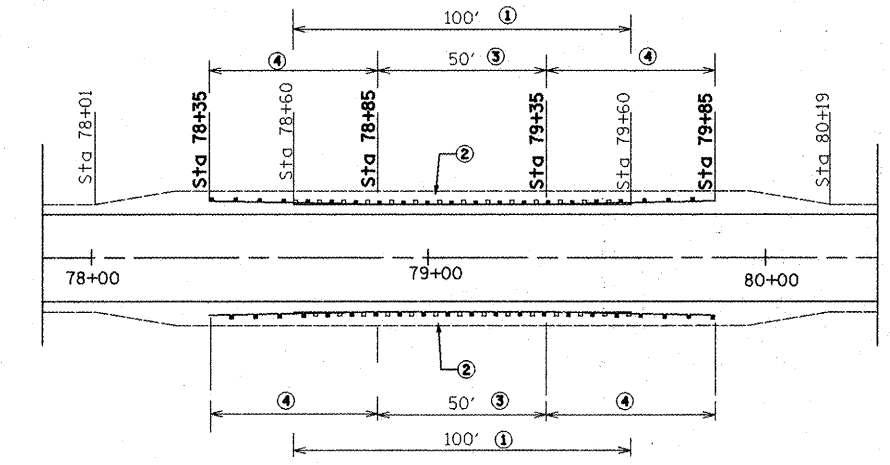
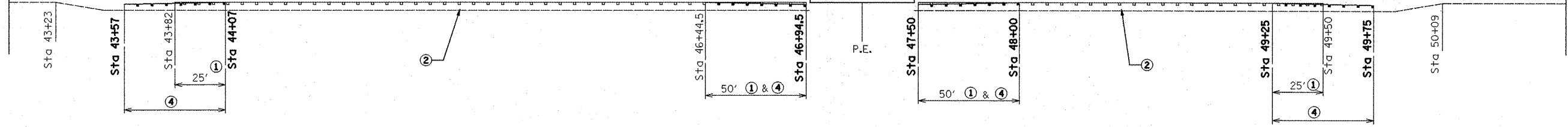
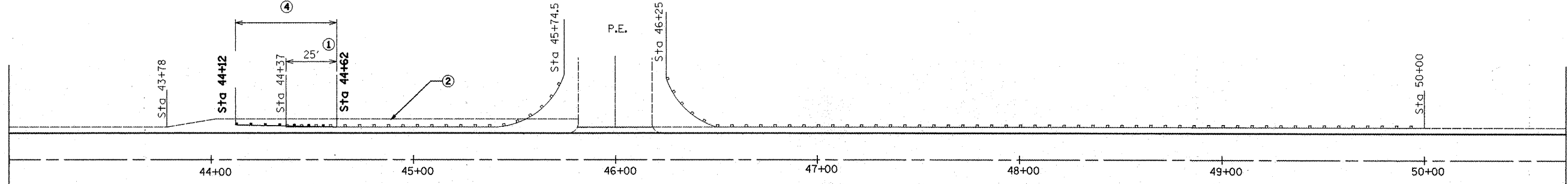
ITEM	UNIT	QUANTITY
GUARDRAIL REMOVAL	FOOT	350.00
GUARDRAIL AGGREGATE EROSION CONTROL	TON	100.00
STEEL PLATE BEAM GUARDRAIL TYPE A, 6 FEET POSTS	FOOT	225.00
TRAFFIC BARRIER TERMINAL TYPE 1 (SPECIAL) TANGENT	EACH	4.00
GUARDRAIL MARKER, TYPE A	EACH	6.00
TERMINAL MARKER DIRECT APPLIED	EACH	4.00

FILE NAME = 0468747-sht-plan.dgn	USER NAME = mendezp.j	DESIGNED -	REVISED -
		DRAWN -	REVISED -
		CHECKED -	REVISED -
		DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>GUARDRAIL IMPROVEMENTS IL 17/91</b>			
SCALE: NONE	SHEET NO. OF	SHEETS	STA. TO STA.

F.A.P. RTE. 643	SECTION (11,12)RS-2(6)WRS-3(10)RS-4	COUNTY STARK	TOTAL SHEETS 45	SHEET NO. 21
<b>CONTRACT NO. 68747</b>				
ILLINOIS FED. AID PROJECT				



SEGMENT ④  
NOT TO SCALE

SEGMENT ⑤  
NOT TO SCALE

SEGMENT ④

**LEGEND**

- ① GUARDRAIL REMOVAL
- ② GUARDRAIL AGGREGATE EROSION CONTROL
- ③ STEEL PLATE BEAM GUARDRAIL TYPE A, 6 FOOT POSTS
- ④ TRAFFIC BARRIER TERMINAL TYPE 1 (SPECIAL) TANGENT
- ⑤ EXISTING TERMINAL SECTION

ITEM	UNIT	QUANTITY
GUARDRAIL REMOVAL	FOOT	175.00
GUARDRAIL AGGREGATE EROSION CONTROL	TON	202.00
STEEL PLATE BEAM GUARDRAIL TYPE A, 6 FEET POSTS	FOOT	0.00
TRAFFIC BARRIER TERMINAL TYPE 1 (SPECIAL) TANGENT	EACH	5.00
GUARDRAIL MARKER, TYPE A	EACH	5.00
TERMINAL MARKER DIRECT APPLIED	EACH	5.00

ITEM	UNIT	QUANTITY
GUARDRAIL REMOVAL	FOOT	200.00
GUARDRAIL AGGREGATE EROSION CONTROL	TON	79.00
STEEL PLATE BEAM GUARDRAIL TYPE A, 6 FEET POSTS	FOOT	100.00
TRAFFIC BARRIER TERMINAL TYPE 1 (SPECIAL) TANGENT	EACH	4.00
GUARDRAIL MARKER, TYPE A	EACH	4.00
TERMINAL MARKER DIRECT APPLIED	EACH	4.00

SEGMENT ⑤

FILE NAME =  
D468747-ahp-plan.dgn

USER NAME = mendezpj  
PLOT SCALE = 100.0000' / IN.  
PLOT DATE = 12/7/2009

DESIGNED -  
DRAWN -  
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DATE -  
REVISED -  
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

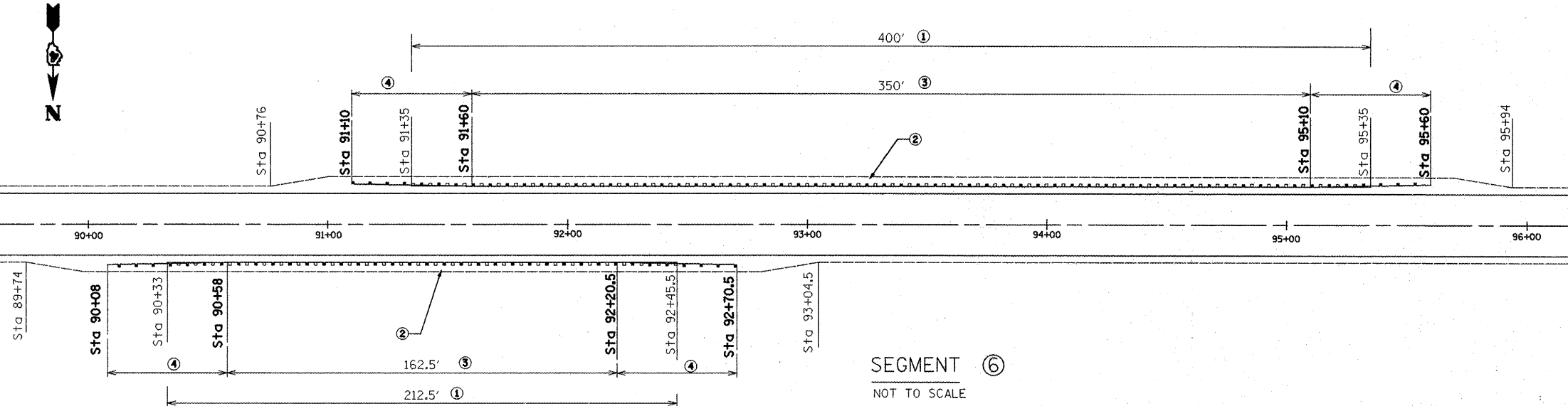
**GUARDRAIL IMPROVEMENTS IL 1791**

SCALE: NONE SHEET NO. OF SHEETS STA. TO STA.

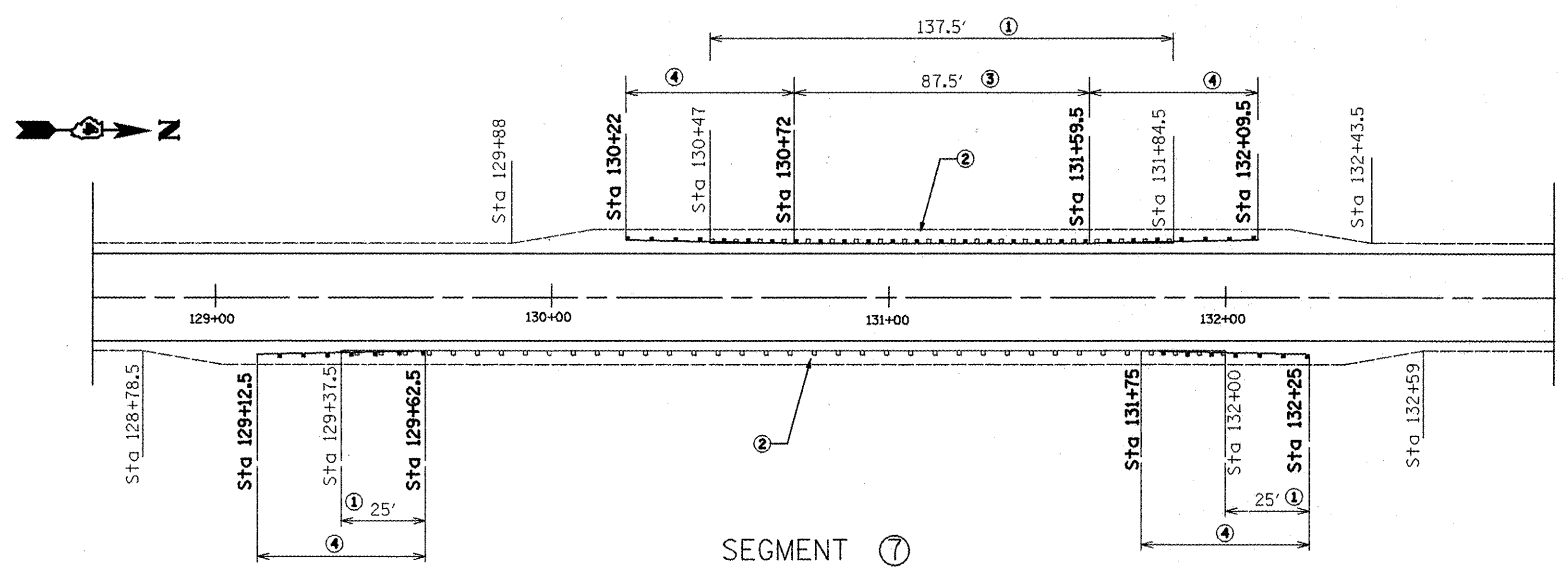
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
643	(11,12)RS-2;(6)RS-3;(10)RS-4	STARK	45	22

**CONTRACT NO. 68747**

ILLINOIS FED. AID PROJECT



SEGMENT ⑥  
NOT TO SCALE



SEGMENT ⑦  
NOT TO SCALE

**LEGEND**

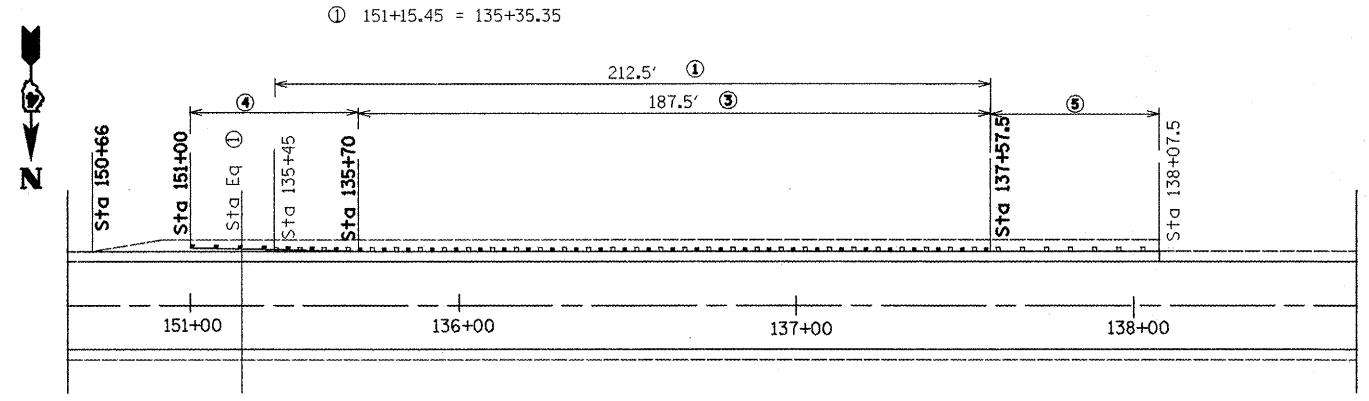
- ① GUARDRAIL REMOVAL
- ② GUARDRAIL AGGREGATE EROSION CONTROL
- ③ STEEL PLATE BEAM GUARDRAIL TYPE A, 6 FOOT POSTS
- ④ TRAFFIC BARRIER TERMINAL TYPE 1 (SPECIAL) TANGENT
- ⑤ EXISTING TERMINAL SECTION

SEGMENT ⑥

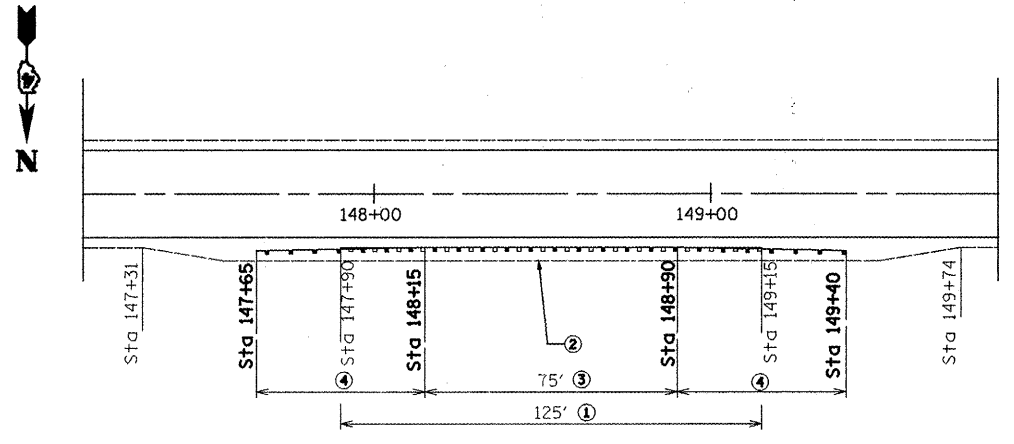
ITEM	UNIT	QUANTITY
GUARDRAIL REMOVAL	FOOT	612.50
GUARDRAIL AGGREGATE EROSION CONTROL	TON	162.00
STEEL PLATE BEAM GUARDRAIL TYPE A, 6 FEET POSTS	FOOT	512.50
TRAFFIC BARRIER TERMINAL TYPE 1 (SPECIAL) TANGENT	EACH	4.00
GUARDRAIL MARKER, TYPE A	EACH	11.00
TERMINAL MARKER DIRECT APPLIED	EACH	4.00

SEGMENT ⑦

ITEM	UNIT	QUANTITY
GUARDRAIL REMOVAL	FOOT	187.50
GUARDRAIL AGGREGATE EROSION CONTROL	TON	117.00
STEEL PLATE BEAM GUARDRAIL TYPE A, 6 FEET POSTS	FOOT	87.50
TRAFFIC BARRIER TERMINAL TYPE 1 (SPECIAL) TANGENT	EACH	4.00
GUARDRAIL MARKER, TYPE A	EACH	4.00
TERMINAL MARKER DIRECT APPLIED	EACH	4.00



SEGMENT ⑧  
NOT TO SCALE



SEGMENT ⑨  
NOT TO SCALE

SEGMENT ⑧

ITEM	UNIT	QUANTITY
GUARDRAIL REMOVAL	FOOT	212.50
GUARDRAIL AGGREGATE EROSION CONTROL	TON	63.00
STEEL PLATE BEAM GUARDRAIL TYPE A, 6 FEET POSTS	FOOT	187.50
TRAFFIC BARRIER TERMINAL TYPE 1 (SPECIAL) TANGENT	EACH	1.00
GUARDRAIL MARKER, TYPE A	EACH	5.00
TERMINAL MARKER DIRECT APPLIED	EACH	1.00

**LEGEND**

- ① GUARDRAIL REMOVAL
- ② GUARDRAIL AGGREGATE EROSION CONTROL
- ③ STEEL PLATE BEAM GUARDRAIL TYPE A, 6 FOOT POSTS
- ④ TRAFFIC BARRIER TERMINAL TYPE 1 (SPECIAL) TANGENT
- ⑤ EXISTING TERMINAL SECTION

SEGMENT ⑨

ITEM	UNIT	QUANTITY
GUARDRAIL REMOVAL	FOOT	125.00
GUARDRAIL AGGREGATE EROSION CONTROL	TON	44.00
STEEL PLATE BEAM GUARDRAIL TYPE A, 6 FEET POSTS	FOOT	75.00
TRAFFIC BARRIER TERMINAL TYPE 1 (SPECIAL) TANGENT	EACH	2.00
GUARDRAIL MARKER, TYPE A	EACH	2.00
TERMINAL MARKER DIRECT APPLIED	EACH	2.00

FILE NAME = 0468747-sht-plan.dgn  
USER NAME = mendezpj

DESIGNED -  
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DATE -

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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**GUARDRAIL IMPROVEMENTS IL 1791**

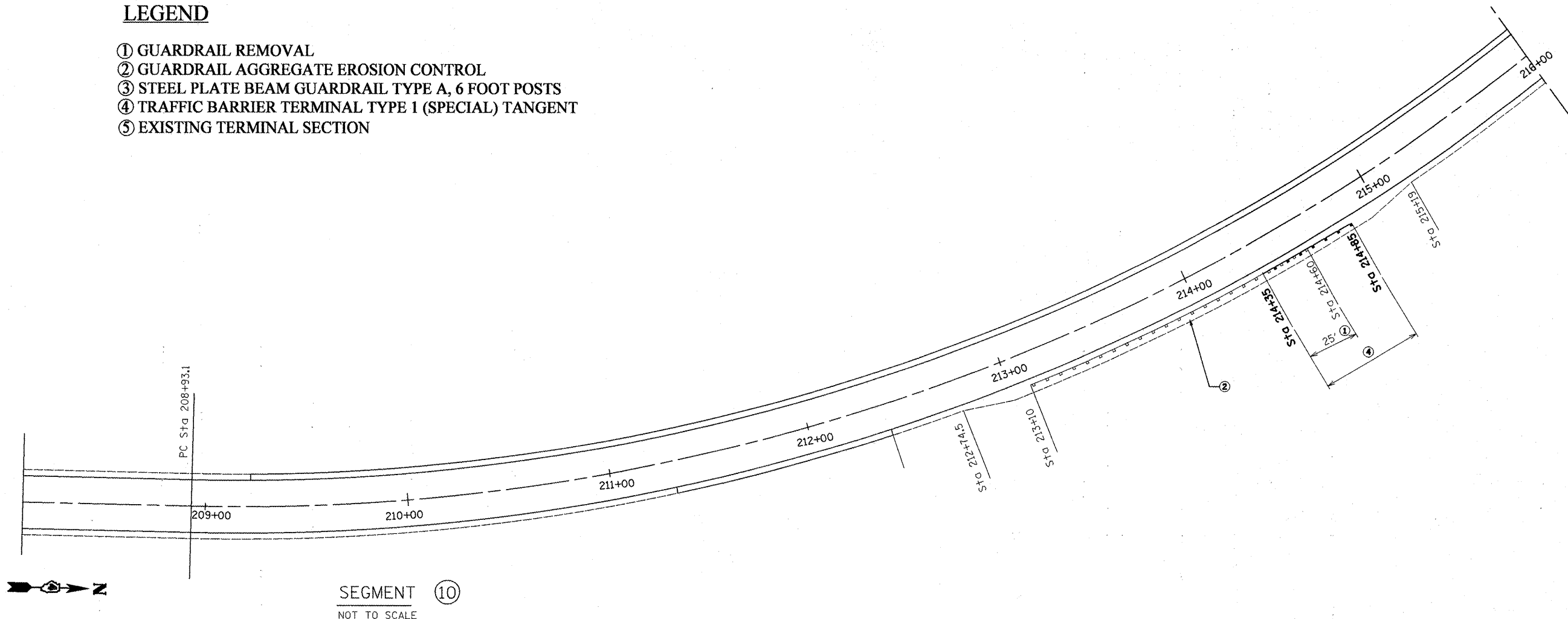
SCALE: NONE SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
643	11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63,64,65,66,67,68,69,70,71,72,73,74,75,76,77,78,79,80,81,82,83,84,85,86,87,88,89,90,91,92,93,94,95,96,97,98,99,100	STARK	45	24
CONTRACT NO. 68747				
ILLINOIS FED. AID PROJECT				



**LEGEND**

- ① GUARDRAIL REMOVAL
- ② GUARDRAIL AGGREGATE EROSION CONTROL
- ③ STEEL PLATE BEAM GUARDRAIL TYPE A, 6 FOOT POSTS
- ④ TRAFFIC BARRIER TERMINAL TYPE 1 (SPECIAL) TANGENT
- ⑤ EXISTING TERMINAL SECTION



SEGMENT 10  
NOT TO SCALE

SEGMENT 10

ITEM	UNIT	QUANTITY
GUARDRAIL REMOVAL	FOOT	25.00
GUARDRAIL AGGREGATE EROSION CONTROL	TON	45.00
STEEL PLATE BEAM GUARDRAIL TYPE A, 6 FEET POSTS	FOOT	0.00
TRAFFIC BARRIER TERMINAL TYPE 1 (SPECIAL) TANGENT	EACH	1.00
GUARDRAIL MARKER, TYPE A	EACH	1.00
TERMINAL MARKER DIRECT APPLIED	EACH	1.00

FILE NAME = D468747-sh1-plan.dgn	USER NAME = mendejzj	DESIGNED -	REVISED -
		DRAWN -	REVISED -
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		DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**GUARDRAIL IMPROVEMENTS IL 17/91**

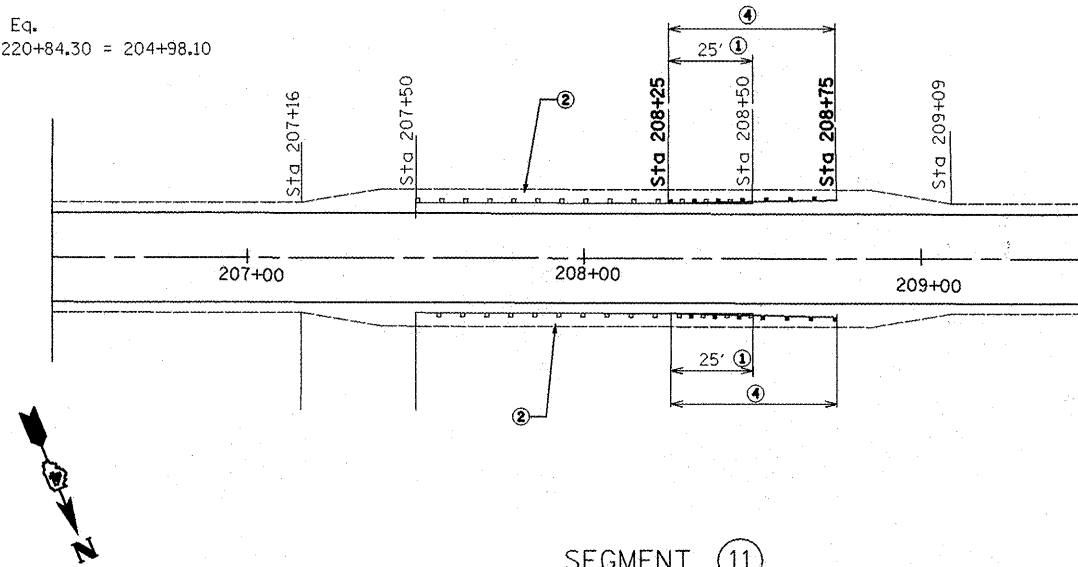
SCALE: NONE SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE. 643	SECTION (11,12)RS-2+(6)WS-3+(10)RS-4	COUNTY STARK	TOTAL SHEETS 45	SHEET NO. 25
<b>CONTRACT NO. 68747</b>				
ILLINOIS FED. AID PROJECT				

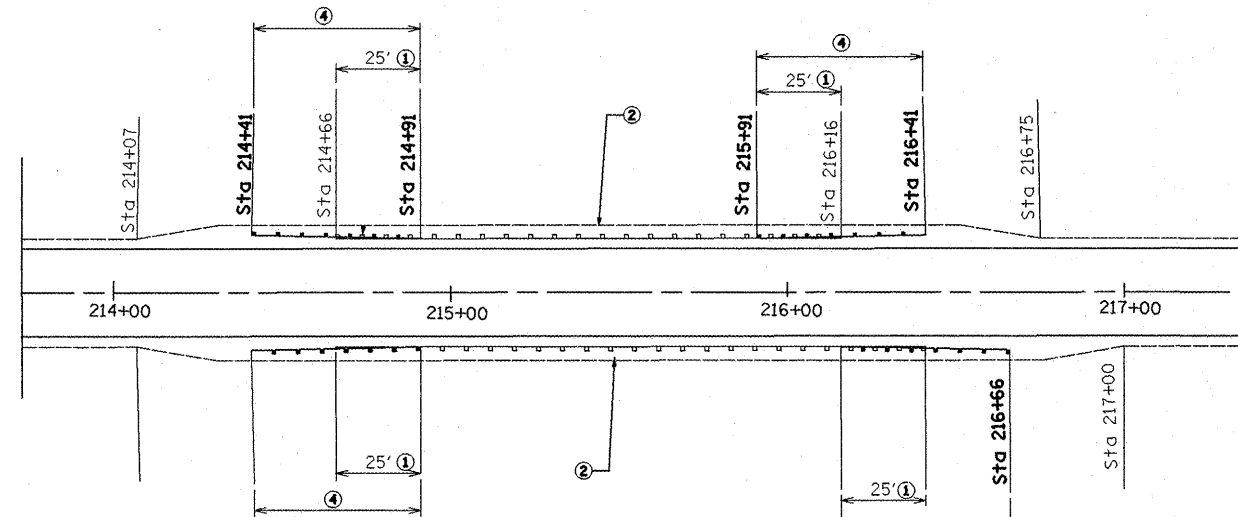
**LEGEND**

- ① GUARDRAIL REMOVAL
- ② GUARDRAIL AGGREGATE EROSION CONTROL
- ③ STEEL PLATE BEAM GUARDRAIL TYPE A, 6 FOOT POSTS
- ④ TRAFFIC BARRIER TERMINAL TYPE 1 (SPECIAL) TANGENT
- ⑤ EXISTING TERMINAL SECTION

Sta Eq.  
 ② 220+84.30 = 204+98.10



SEGMENT 11  
 NOT TO SCALE



SEGMENT 12  
 NOT TO SCALE

SEGMENT 11

SEGMENT 12

ITEM	UNIT	QUANTITY
GUARDRAIL REMOVAL	FOOT	50.00
GUARDRAIL AGGREGATE EROSION CONTROL	TON	68.00
STEEL PLATE BEAM GUARDRAIL TYPE A, 6 FEET POSTS	FOOT	0.00
TRAFFIC BARRIER TERMINAL TYPE 1 (SPECIAL) TANGENT	EACH	2.00
GUARDRAIL MARKER, TYPE A	EACH	2.00
TERMINAL MARKER DIRECT APPLIED	EACH	2.00

ITEM	UNIT	QUANTITY
GUARDRAIL REMOVAL	FOOT	100.00
GUARDRAIL AGGREGATE EROSION CONTROL	TON	104.00
STEEL PLATE BEAM GUARDRAIL TYPE A, 6 FEET POSTS	FOOT	0.00
TRAFFIC BARRIER TERMINAL TYPE 1 (SPECIAL) TANGENT	EACH	4.00
GUARDRAIL MARKER, TYPE A	EACH	4.00
TERMINAL MARKER DIRECT APPLIED	EACH	4.00

FILE NAME =  
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USER NAME = mendezpj  
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 PLOT DATE = 12/7/2009

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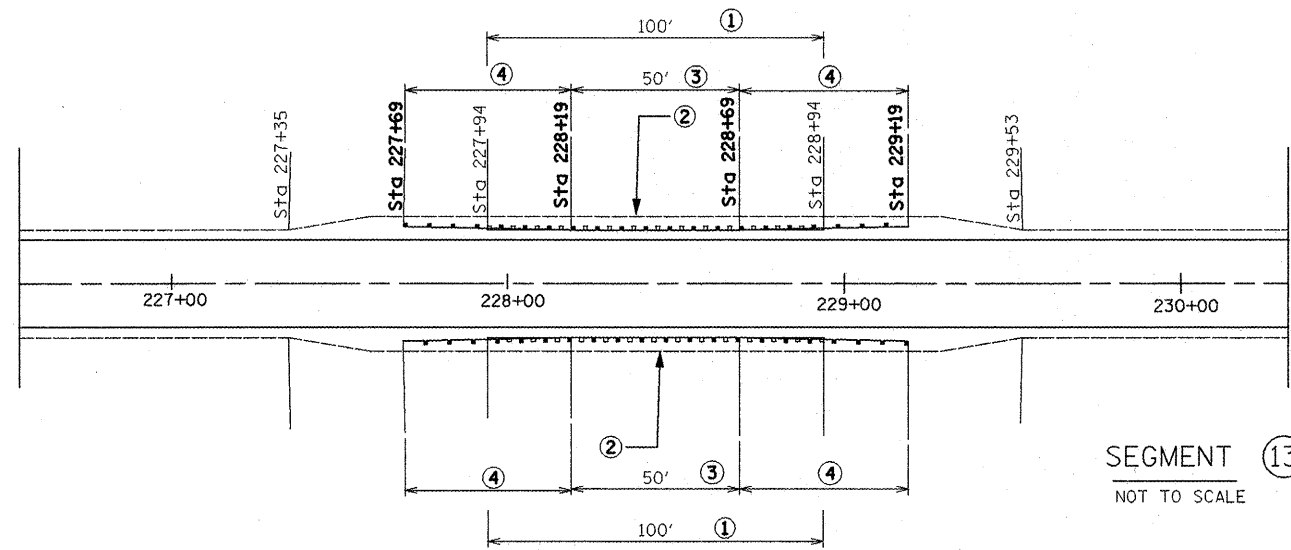
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STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

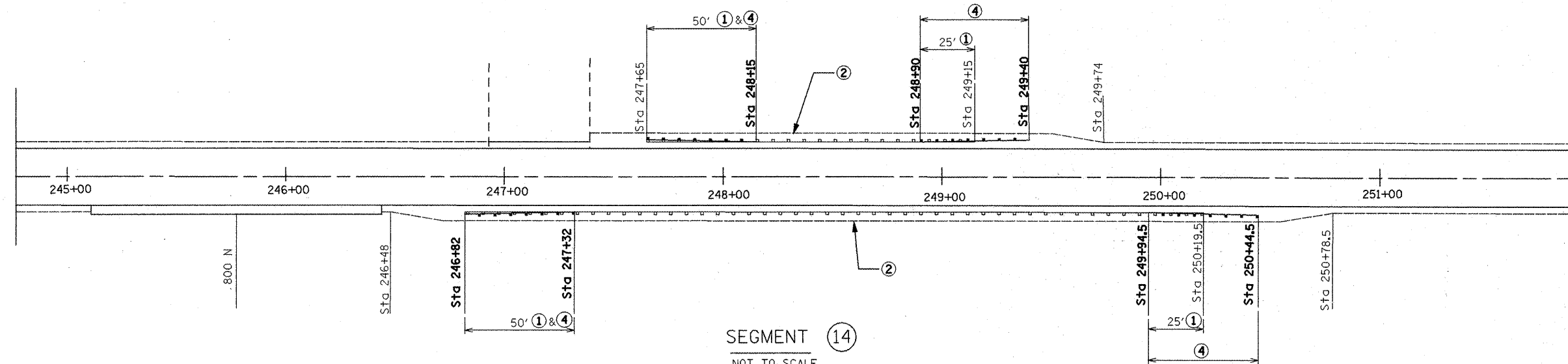
GUARDRAIL IMPROVEMENTS IL 1791

SCALE: NONE SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
643	41.12/RS-2x(GW)RS-3x(I)RS-4	STARK	45	26
CONTRACT NO. 68747				
ILLINOIS FED. AID PROJECT				



SEGMENT 13  
NOT TO SCALE



SEGMENT 14  
NOT TO SCALE

**LEGEND**

- ① GUARDRAIL REMOVAL
- ② GUARDRAIL AGGREGATE EROSION CONTROL
- ③ STEEL PLATE BEAM GUARDRAIL TYPE A, 6 FOOT POSTS
- ④ TRAFFIC BARRIER TERMINAL TYPE 1 (SPECIAL) TANGENT
- ⑤ EXISTING TERMINAL SECTION

SEGMENT 13

SEGMENT 14

ITEM	UNIT	QUANTITY
GUARDRAIL REMOVAL	FOOT	200.00
GUARDRAIL AGGREGATE EROSION CONTROL	TON	79.00
STEEL PLATE BEAM GUARDRAIL TYPE A, 6 FEET POSTS	FOOT	100.00
TRAFFIC BARRIER TERMINAL TYPE 1 (SPECIAL) TANGENT	EACH	4.00
GUARDRAIL MARKER, TYPE A	EACH	4.00
TERMINAL MARKER DIRECT APPLIED	EACH	4.00

ITEM	UNIT	QUANTITY
GUARDRAIL REMOVAL	FOOT	150.00
GUARDRAIL AGGREGATE EROSION CONTROL	TON	122.00
STEEL PLATE BEAM GUARDRAIL TYPE A, 6 FEET POSTS	FOOT	0.00
TRAFFIC BARRIER TERMINAL TYPE 1 (SPECIAL) TANGENT	EACH	4.00
GUARDRAIL MARKER, TYPE A	EACH	4.00
TERMINAL MARKER DIRECT APPLIED	EACH	4.00

FILE NAME =  
D468747-sht-plan.dgn

USER NAME = mendeazp  
PLOT SCALE = 100.0000' / IN.  
PLOT DATE = 12/7/2009

DESIGNED -  
DRAWN -  
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REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

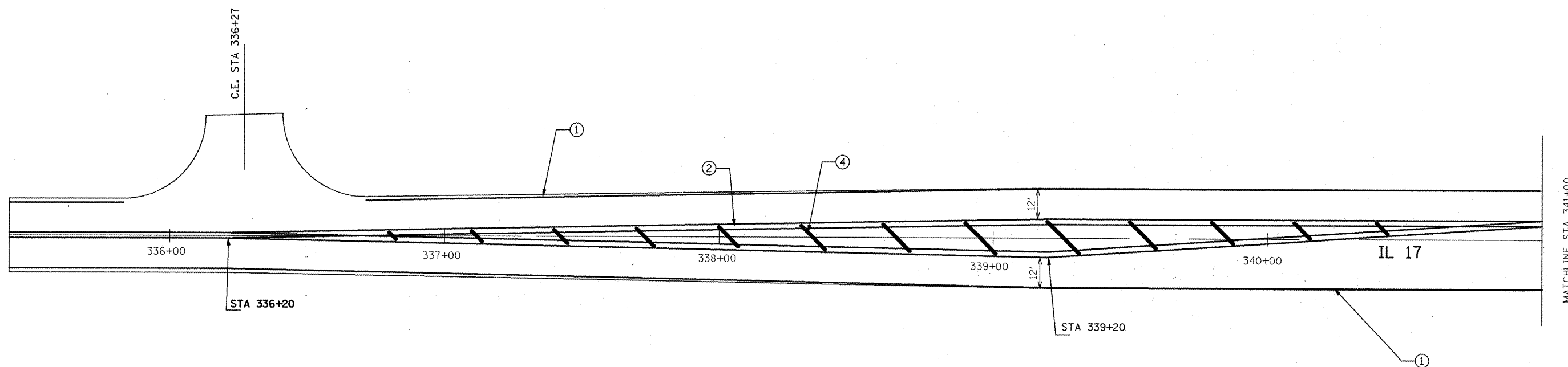
**GUARDRAIL IMPROVEMENTS IL 17/91**

SCALE: NONE SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
643	(11,12)RS-2;(GW)RS-3;(10)RS-4	STARK	45	27

**CONTRACT NO. 68747**

ILLINOIS FED. AID PROJECT



### LEGEND

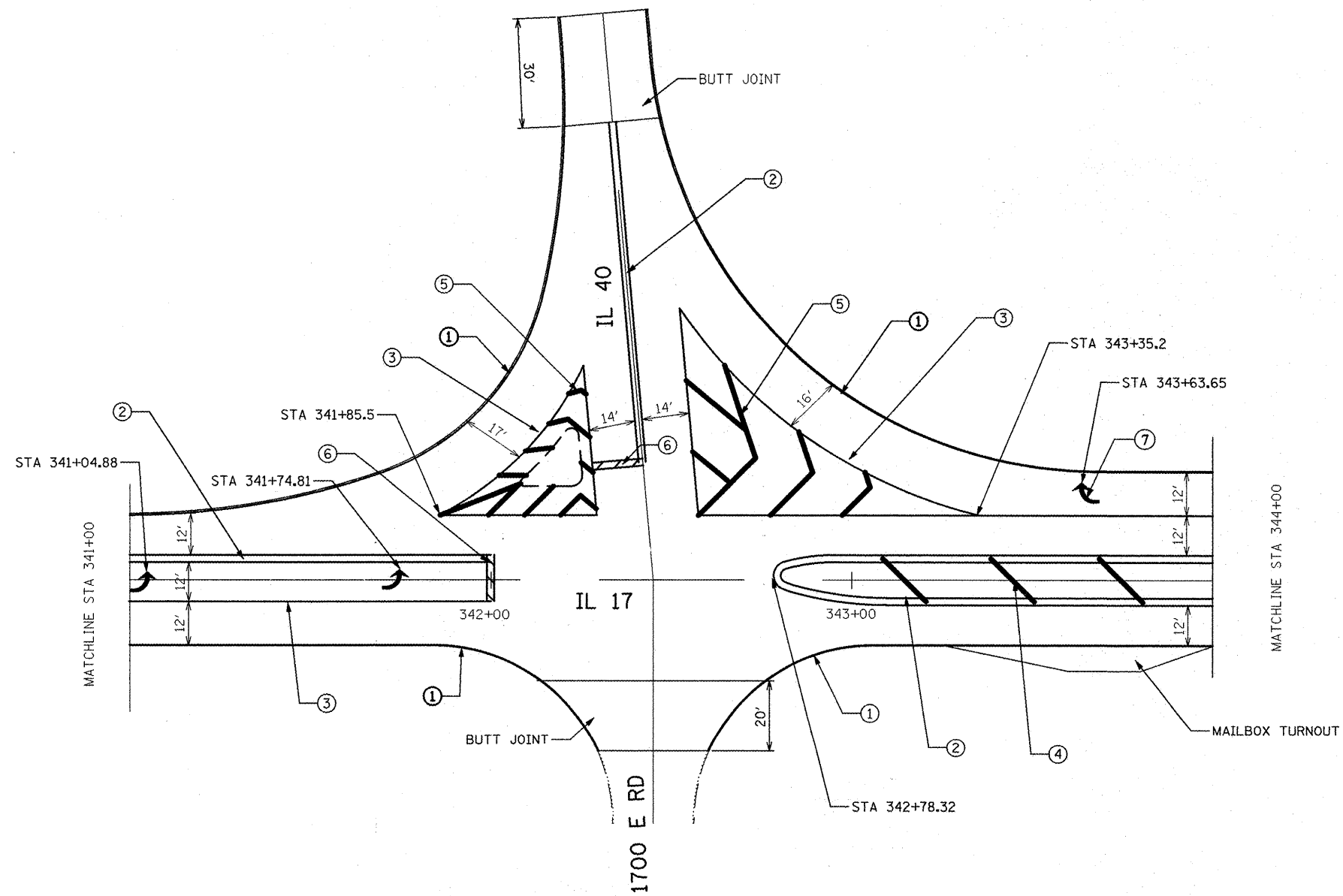
- ① 4" SOLID WHITE LINE
- ② 4" DOUBLE YELLOW LINE
- ③ 8" SOLID WHITE LINE
- ④ 12" DIAGONAL YELLOW
- ⑤ 12" DIAGONAL WHITE
- ⑥ 24" WHITE STOP BAR
- ⑦ LETTERS AND SYMBOLS

FILE NAME = D468747-sh1-plan.dgn	USER NAME = mendezpj	DESIGNED -	REVISED -
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>PAVEMENT MARKING DETAIL IL 17</b>			
SCALE:	SHEET NO.	OF SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
643	(11,12)RS-2(6)WS-3(10)RS-4	STARK	45	28
<b>CONTRACT NO. 68747</b>				
ILLINOIS FED. AID PROJECT				



### LEGEND

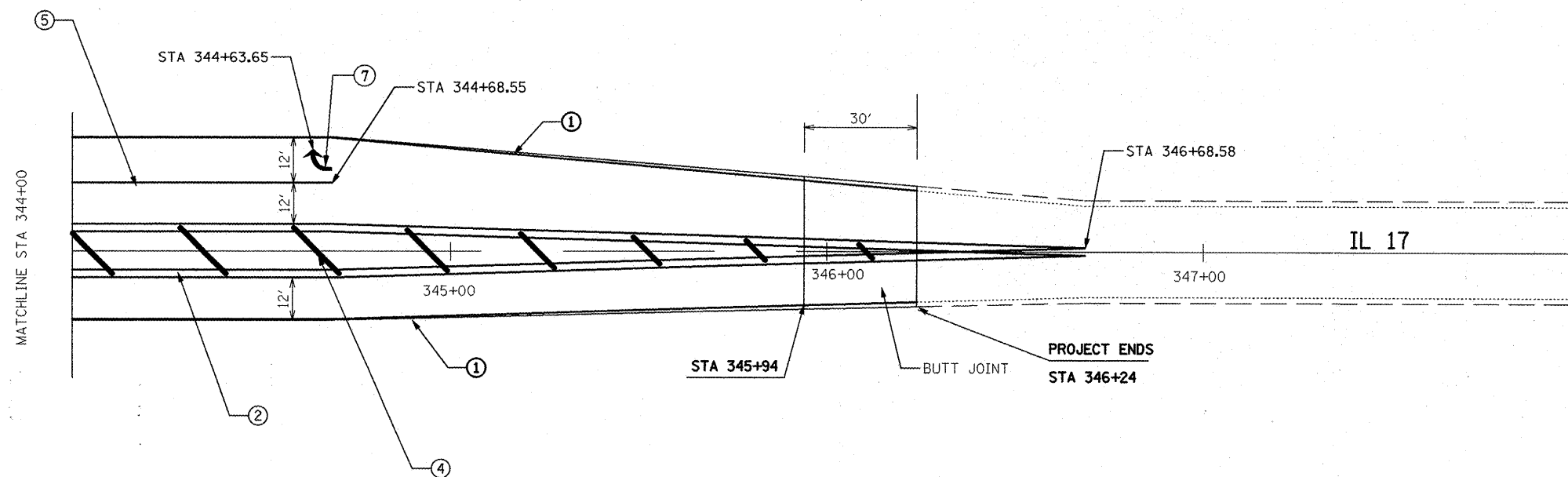
- ① 4" SOLID WHITE LINE
- ② 4" DOUBLE YELLOW LINE
- ③ 8" SOLID WHITE LINE
- ④ 12" DIAGONAL YELLOW
- ⑤ 12" DIAGONAL WHITE
- ⑥ 24" WHITE STOP BAR
- ⑦ LETTERS AND SYMBOLS

FILE NAME = D468747-shr-plan.dgn	USER NAME = mendezpj	DESIGNED -	REVISED -
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		DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>PAVEMENT MARKING DETAIL IL 17</b>			
SCALE:	SHEET NO.	OF SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
643	(11,12)RS-2;(6)WRS-3;(10)RS-4	STARK	45	29
<b>CONTRACT NO. 68747</b>				
ILLINOIS FED. AID PROJECT				



### LEGEND

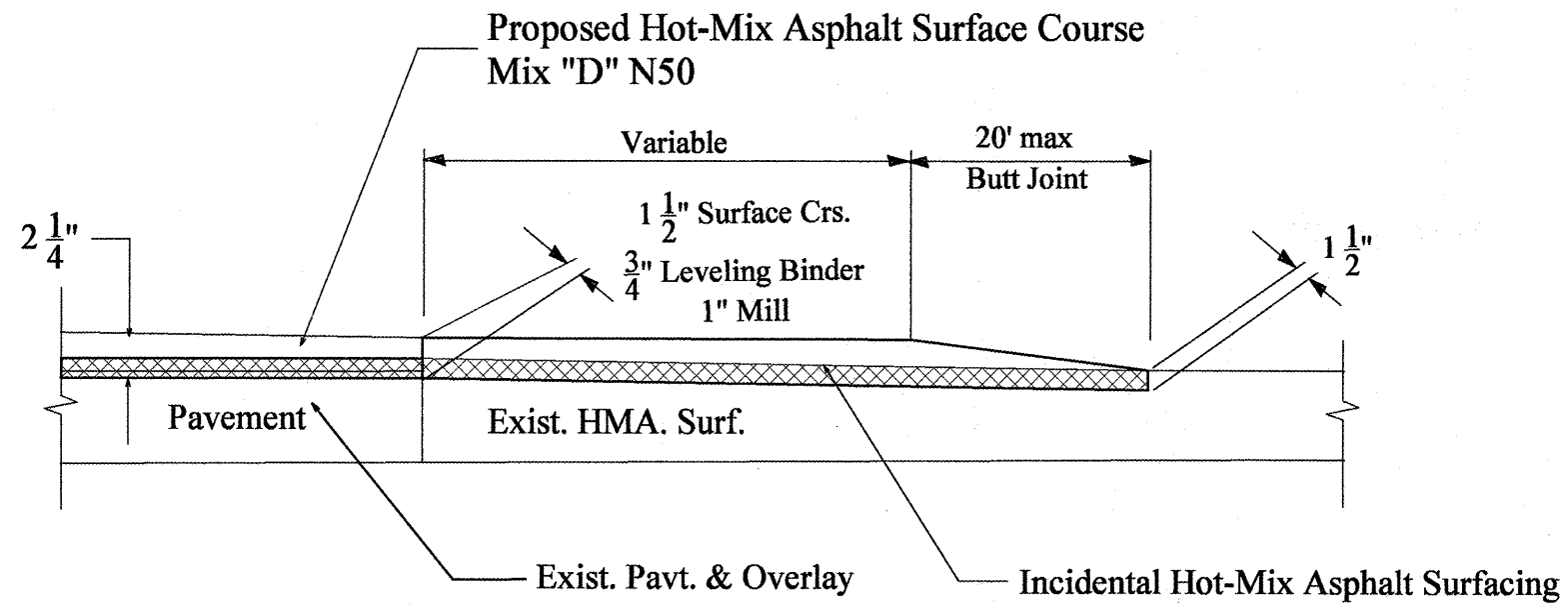
- ① 4" SOLID WHITE LINE
- ② 4" DOUBLE YELLOW LINE
- ③ 8" SOLID WHITE LINE
- ④ 12" DIAGONAL YELLOW
- ⑤ 12" DIAGONAL WHITE
- ⑥ 24" WHITE STOP BAR
- ⑦ LETTERS AND SYMBOLS

FILE NAME = D468747-ah-plot.dgn	USER NAME = mendespj	DESIGNED -	REVISED -
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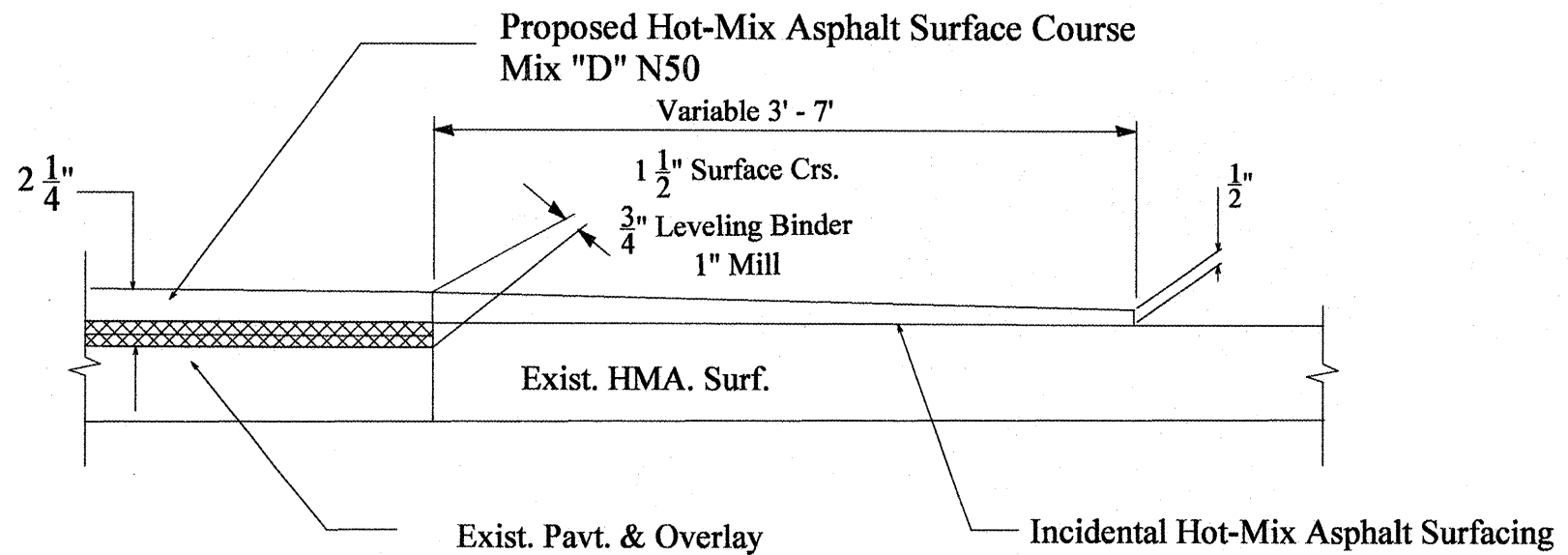
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>PAVEMENT MARKING DETAIL IL 17</b>			
SCALE:	SHEET NO.	OF SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
643	(11,12)RS-2x(6W)RS-3x(10)RS-4	STARK	45	30
<b>CONTRACT NO. 68747</b>				
ILLINOIS FED. AID PROJECT				



**SIDEROADS DETAIL**



**ENTRANCES**

FILE NAME = D468747-ah-t-plenudgn	USER NAME = mendezpj	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 100.0000' / IN.	CHECKED -	REVISED -
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

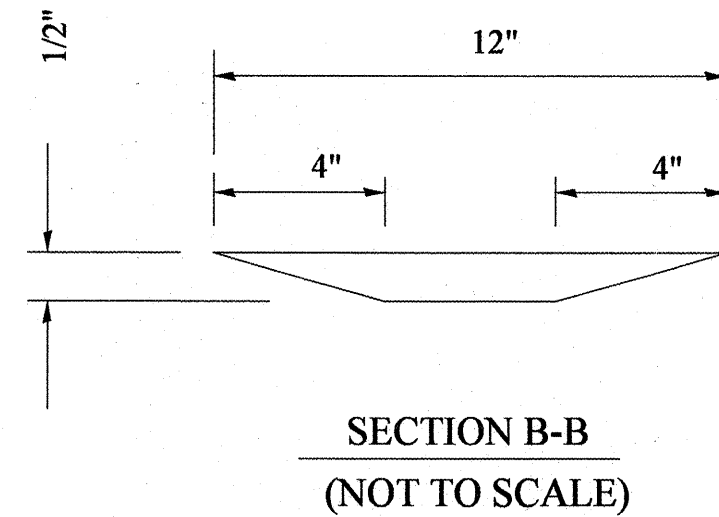
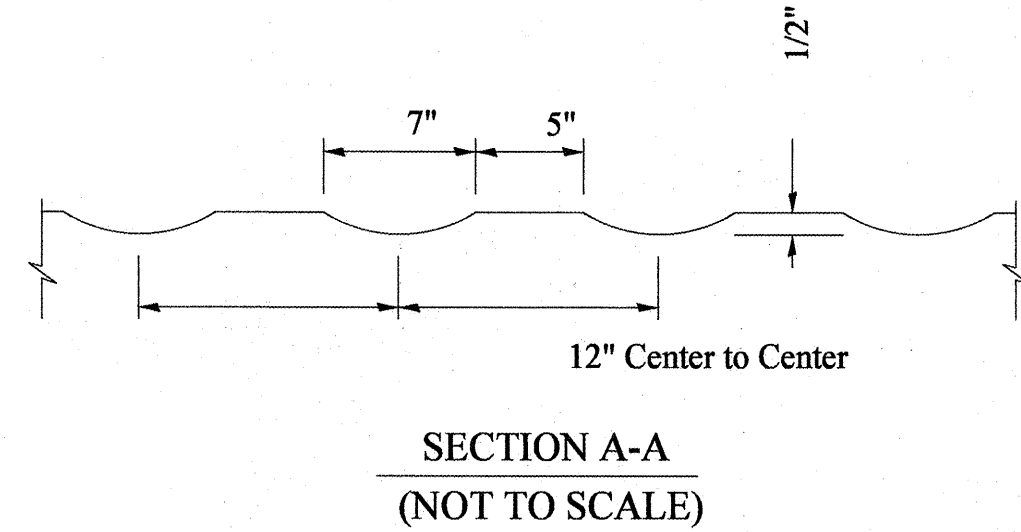
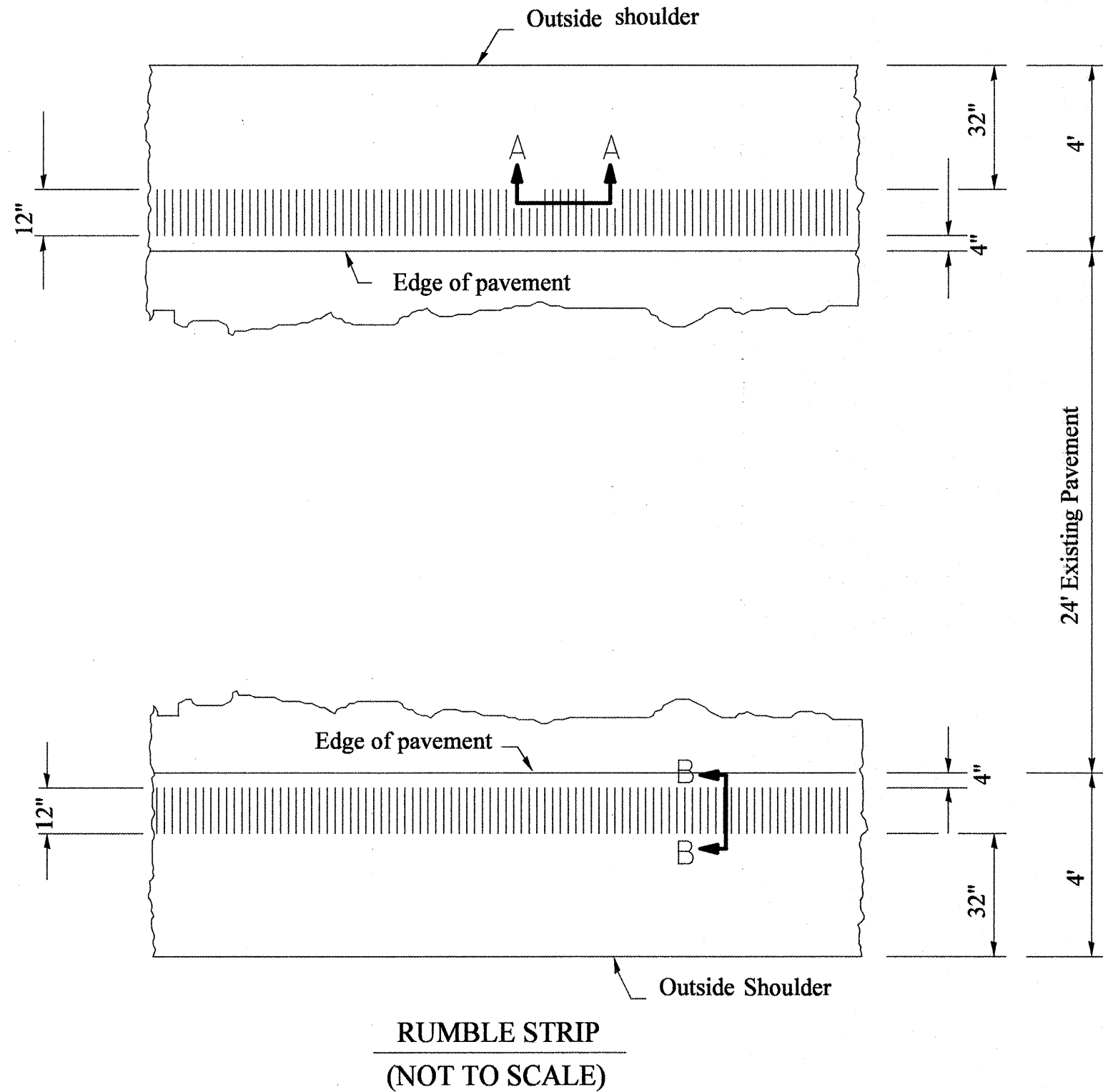
**ENTRANCES, MAILBOX TURNOUT & SIDEROADS DETAIL**

SCALE: NONE    SHEET NO. OF SHEETS    STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
643	(11,12)RS-2(6W)RS-3(10)RS-4	STARK	45	31
CONTRACT NO. 68747				
ILLINOIS FED. AID PROJECT				

GENERAL NOTES

1. THIS STANDARD GIVES CONSTRUCTION INSTALLATION DETAILS ONLY AND DOES NOT DETERMINE WHEN OR WHERE RUMBLESTRIPS ARE TO BE USED.
2. RUMBLE STRIPS SHALL BE OMITTED AT TURN AND AUXILIARY LANES, ROAD APPROACHES, RESIDENCE, 250 FT. BEFORE ROAD INTERSECTIONS, AND OTHER INTERRUPTIONS AS DIRECTED BY THE PROJECT ENGINEER.



FILE NAME = D468747-shr-plan.dgn	USER NAME = mendezpj	DESIGNED -	REVISED -
		DRAWN -	REVISED -
		CHECKED -	REVISED -
		DATE -	REVISED -

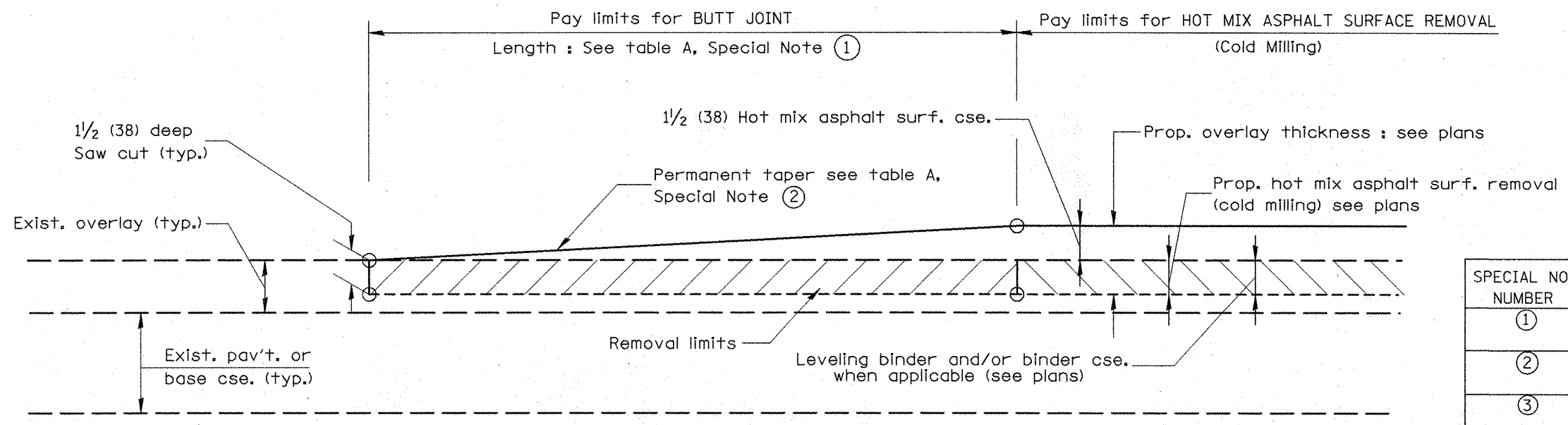
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

RUMBLE STRIP DETAIL			
SCALE: NONE	SHEET NO.	OF SHEETS	STA. TO STA.

F.A.P. RTE. =	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
643	(11.12)RS-2(6W)RS-3(10)RS-4	STARK	45	32
CONTRACT NO. 68747				
ILLINOIS FED. AID PROJECT				



DESIGNER NOTES:  
 1. Include District Special Provision for Butt Joints & for Hot Mix Asphalt Removal (Cold Milling).  
 2. The butt joints pay item includes the saw cut & temporary ramps. Payment for the Butt Joint applies whether or not the project features Hot Mix Asphalt Removal (Cold Milling).



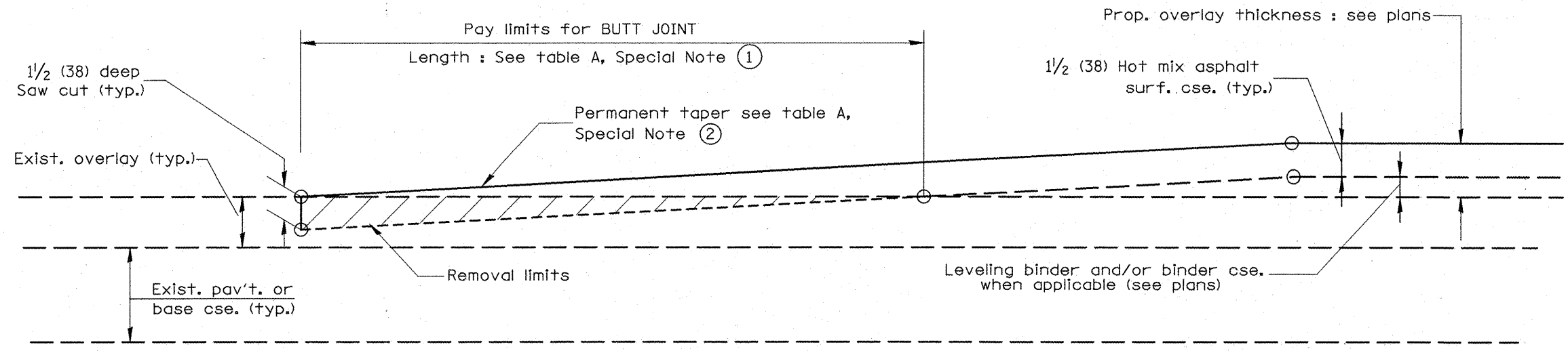
**CASE 1 : WITH HOT MIX ASPHALT SURFACE REMOVAL (COLD MILLING)**

**TABLE A**  
(LENGTHS AND TAPER RATES)

SPECIAL NOTE NUMBER	ELEMENT	MAINLINE INTERSTATES & 4-LANE EXPRESSWAYS	ALL OTHERS
①	LENGTH OF BUTT JOINT	60'(18.0 m)	30'(9.0 m)
②	PERMANENT TAPER RATE	1:480	1:240
③	TEMPORARY RAMP TAPER RATE	1:80	1:40
④	TEMPORARY RAMP LENGTH	10'(3.0 m)	5'(1.5 m)
⑤	LENGTH OF BUTT JOINT	10'(3.0 m)	10'(3.0 m)

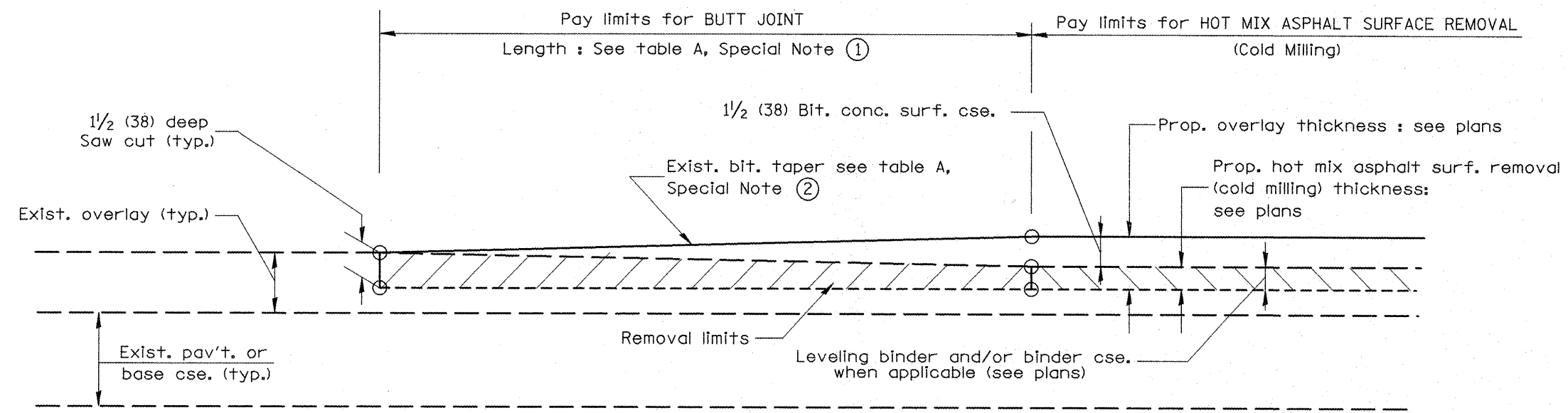
**GENERAL NOTES**

- The work shall be done in accordance with Article 406.08 and the Special Provision for Butt Joints.
- The pavement surface to be removed may be either bituminous or P.C. concrete. The work shall be performed in accordance with Article 440.04 and the Special Provisions for Butt Joints.
- The saw cut joints shall be primed just prior to the placing of bituminous material. The work will be in accordance with the applicable portions of Article 406.05.

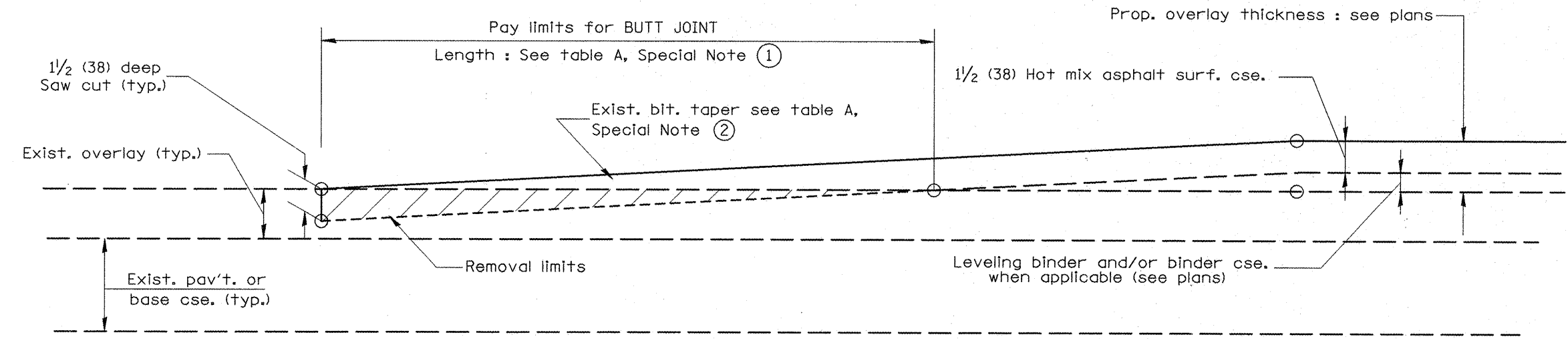


**CASE 2 : NO HOT MIX ASPHALT SURFACE REMOVAL (COLD MILLING)**

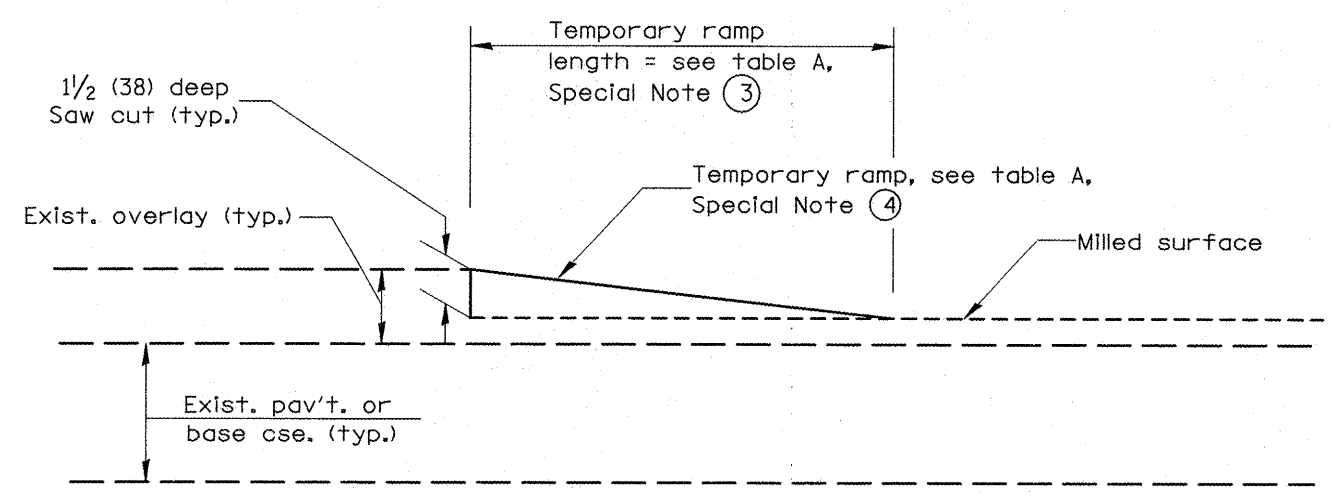
All dimensions are in inches (millimeters) unless otherwise noted.



**CASE 3 : WITH HOT MIX ASPHALT SURFACE REMOVAL (COLD MILLING)  
TIE-IN TO EXISTING BITUMINOUS TAPER**



**CASE 4 : NO HOT MIX ASPHALT SURFACE REMOVAL (COLD MILLING)  
TIE-IN TO EXISTING BITUMINOUS TAPER**



**DETAIL TEMPORARY RAMP**

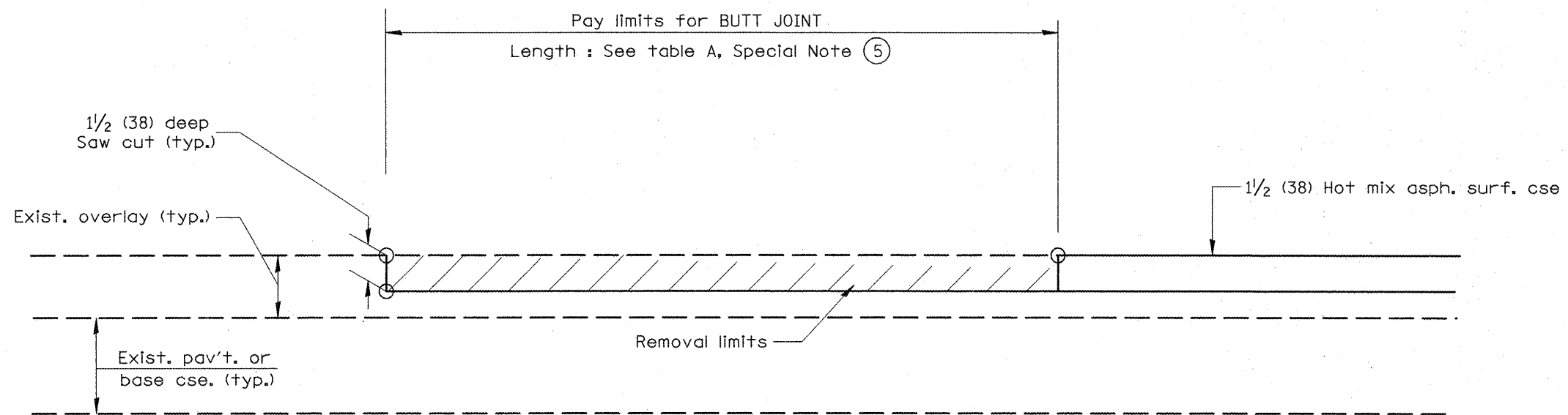
All dimensions are in inches (millimeters) unless otherwise noted.


**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**BUTT JOINTS**  
NOT TO SCALE

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
643	(11,12)RS-2;(6W)RS-3;10IRS-4	STARK	45	34
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 68747	

SHT. 2 OF 3  
CADD STD. 406101-D4



**CASE 5 : WITH HOT MIX ASPHALT SURFACE REMOVAL (COLD MILLING)  
TIE-IN TO EXISTING BITUMINOUS TAPER**

All dimensions are in inches (millimeters) unless otherwise noted.

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

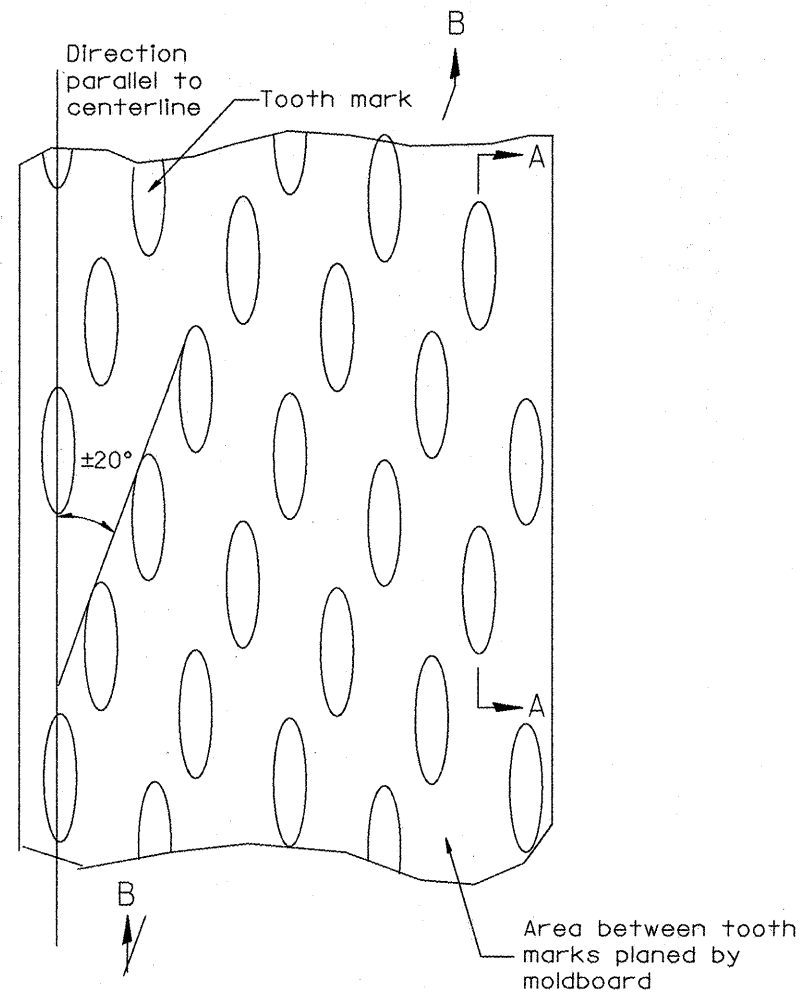
BUTT JOINTS

NOT TO SCALE

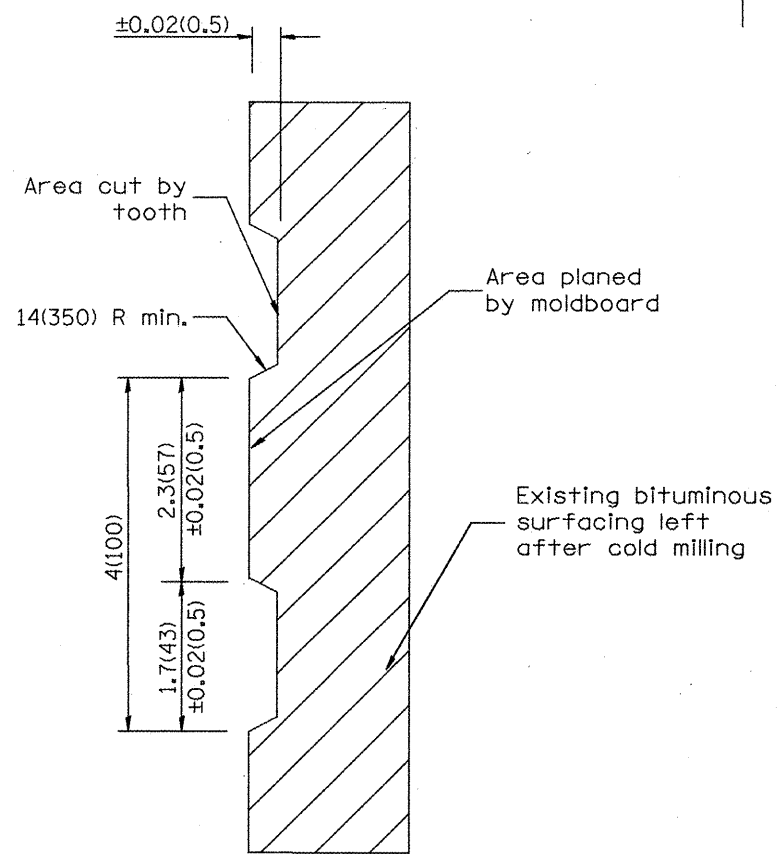
SHT. 3 OF 3  
CADD STD. 406101-D4

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
643	(11.12)RS-2;(6)WRS-3;(10)RS-4	STARK	45	35
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 68747	

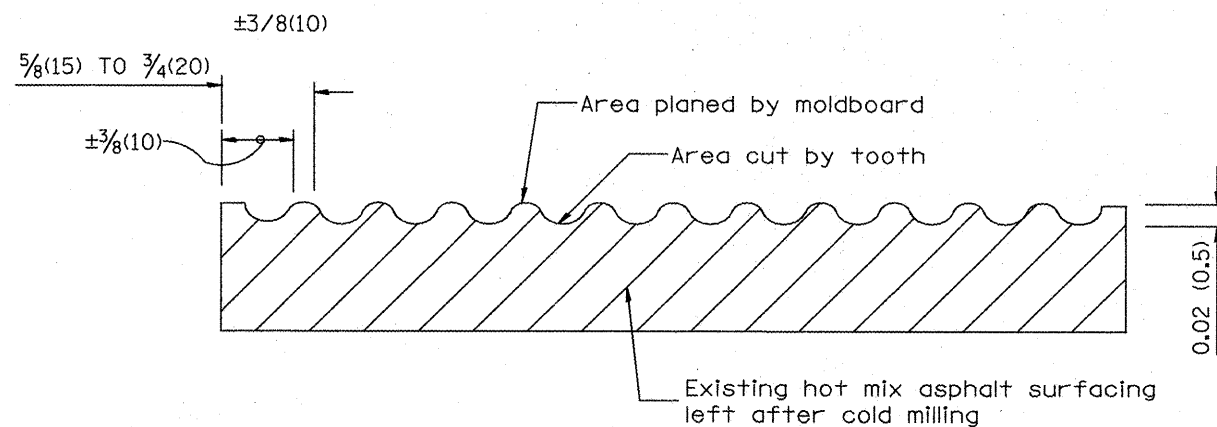
DESIGNER NOTES:  
1. INCLUDE DISTRICT SPECIAL PROVISION, IF APPLICABLE.



PLAN



SECTION A-A



SECTION B-B PROJECTED  
PERPENDICULAR TO CENTERLINE

General notes:

1. Coldmilling shall consist of two processes: Cutting with carbide teeth mounted on a rotating drum, and planing with a moldboard mounted immediately behind the cutting drum.
2. Other similar patterns will be acceptable if they consist of a smooth, flat, planed surface interspersed with a pattern of discontinuous longitudinal striations.

All dimensions are in inches (millimeters) unless otherwise noted.

01-01-97	RENUM. C-104.01, NEW REVISION BOX	T.P.
04-20-98	REMOVED MILLING DETAIL FROM STANDARD	J.A.
09-08-98	CORRECT NOTE LEADER PLACEMENT	R.W.
10-16-06	REVISED TO 2007 SPEC.	M.A.

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

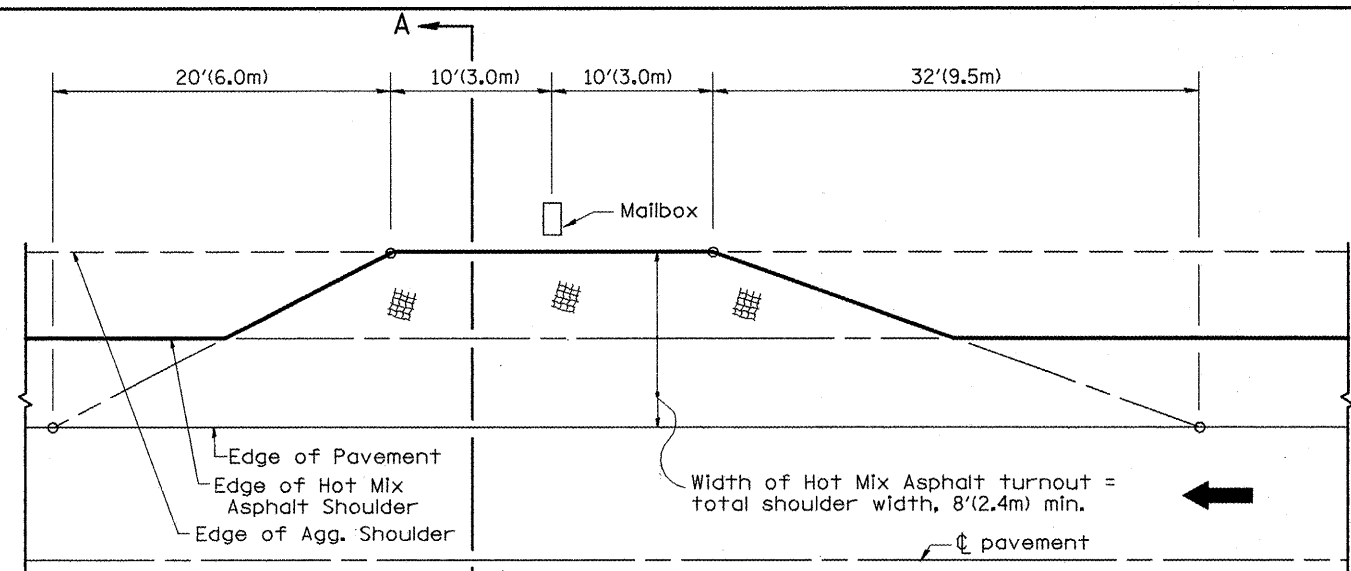
HOT MIX ASPHALT SURFACE REMOVAL (COLD MILLING)

NOT TO SCALE

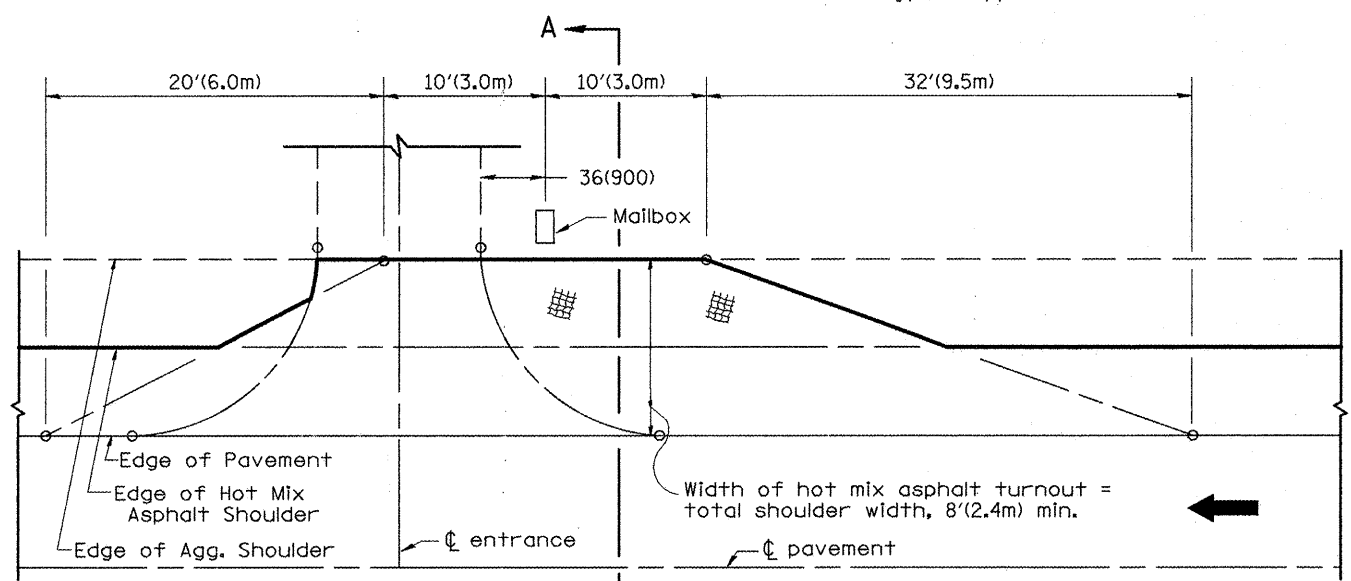
CADD STD. 440001-D4

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
643	(11,12)RS-2+(6)WS-3+(10)RS-4	STARK	45	36
CONTRACT NO. 68747				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

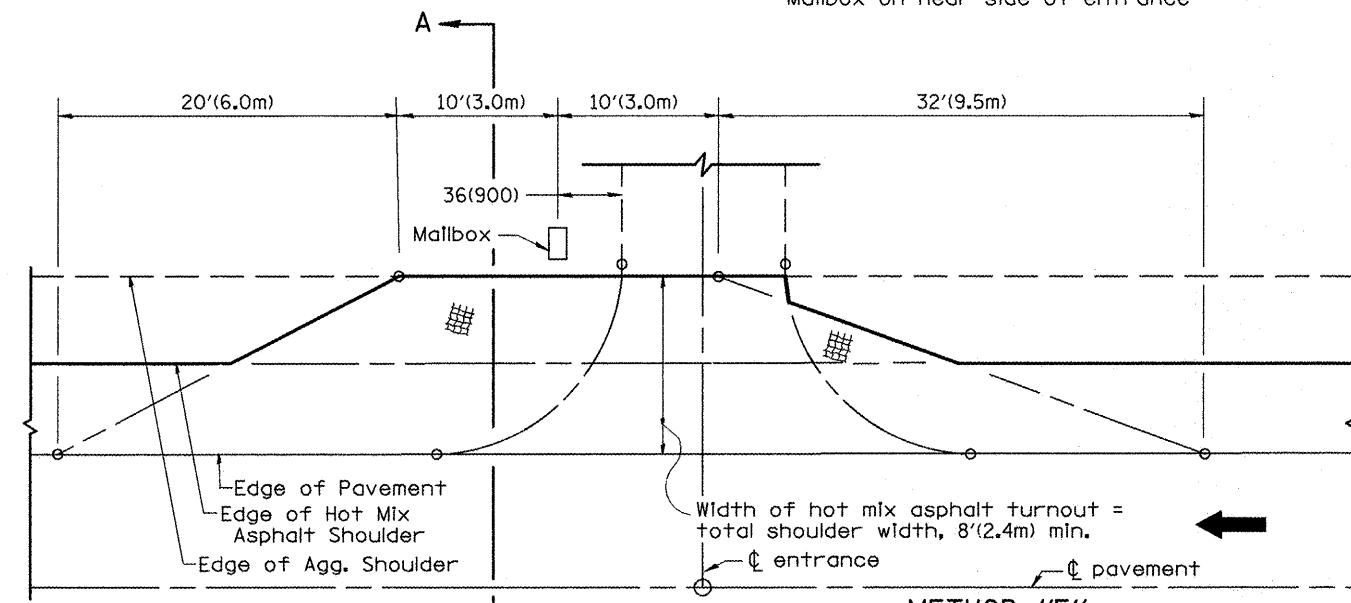
DESIGNER NOTES:  
 1. THIS DRAWING REPLACES STATE STANDARD 406201  
 2. DESIGNER SHOULD CONSULT CHAPTER 49 OF THE BDE MANUAL



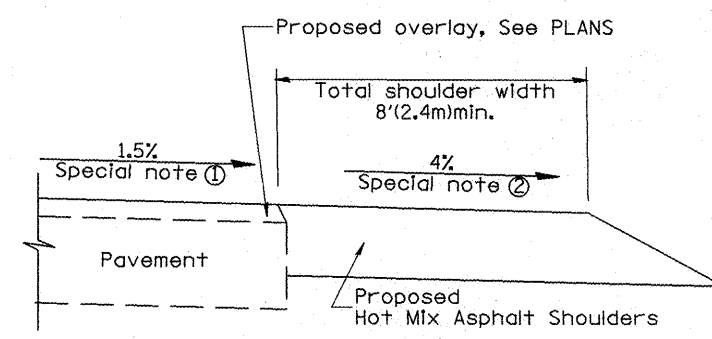
**METHOD "T"**  
Typical Application



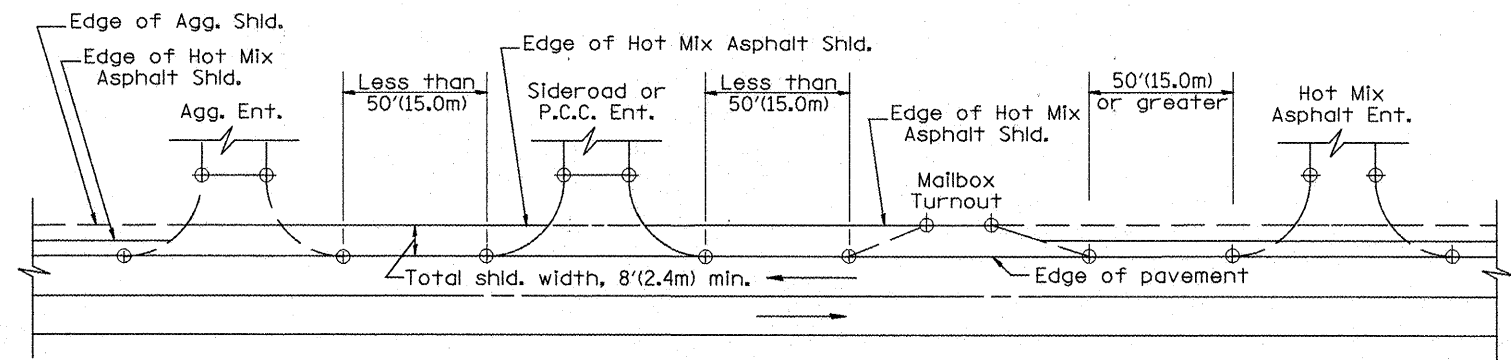
**METHOD "N"**  
Mailbox on near side of entrance



**METHOD "F"**  
Mailbox on far side of entrance



**SECTION A-A**



**DETAIL A**  
SHOULDER TREATMENT FOR CLOSELY SPACED SIDEROADS,  
ENTRANCES, AND/OR MAILBOX TURNOUTS

**GENERAL NOTES**

- Mailbox turnouts shall slope away from the pavement edge at a rate equal to the shoulder slope. See SECTION A-A.
- The total shoulder width, 8' (2.4m) minimum, shall be paved between sideroads entrances and/or mailbox turnouts at locations where the distance between radius or taper control points is less than 50' (15.0m). See DETAIL A.
- Mailboxes shall be mounted such that the face of the mailbox is 6' (1.5m) to 12' (3.0m) and the post a minimum of 24' (6.0m) from the edge of the turnout surfacing.

**SPECIAL NOTES**

- The mainline pavement cross-slope is 1.5% for tangent alignment. See PLANS for cross-slope on super-elevated horizontal curves.
- The shoulder slope shall control the turnout slope. The standard cross-slope is 4% for tangent alignment. Through super-elevated curves, the maximum pavement-shoulder breakover should not be greater than 10% for shoulders 6' (1.8m) and wider and 12% for shoulders 4' (1.2m) and less. Where 12' (3.0m) paved shoulders are provided, the breakover should be at the edge of the paved shoulder rather than at the pavement edge.

All dimensions are in Inches (millimeters) unless otherwise noted.

01-01-97	RENUM. C-90.01, NEW REVISION BOX	T.P.
07-01-97	REVISE DESIGNER NOTES	J.A.
09-15-05	REVISED DESIGNER NOTE	M.M.A.
10-16-06	REVISED TO 2007 SPEC.	M.A.

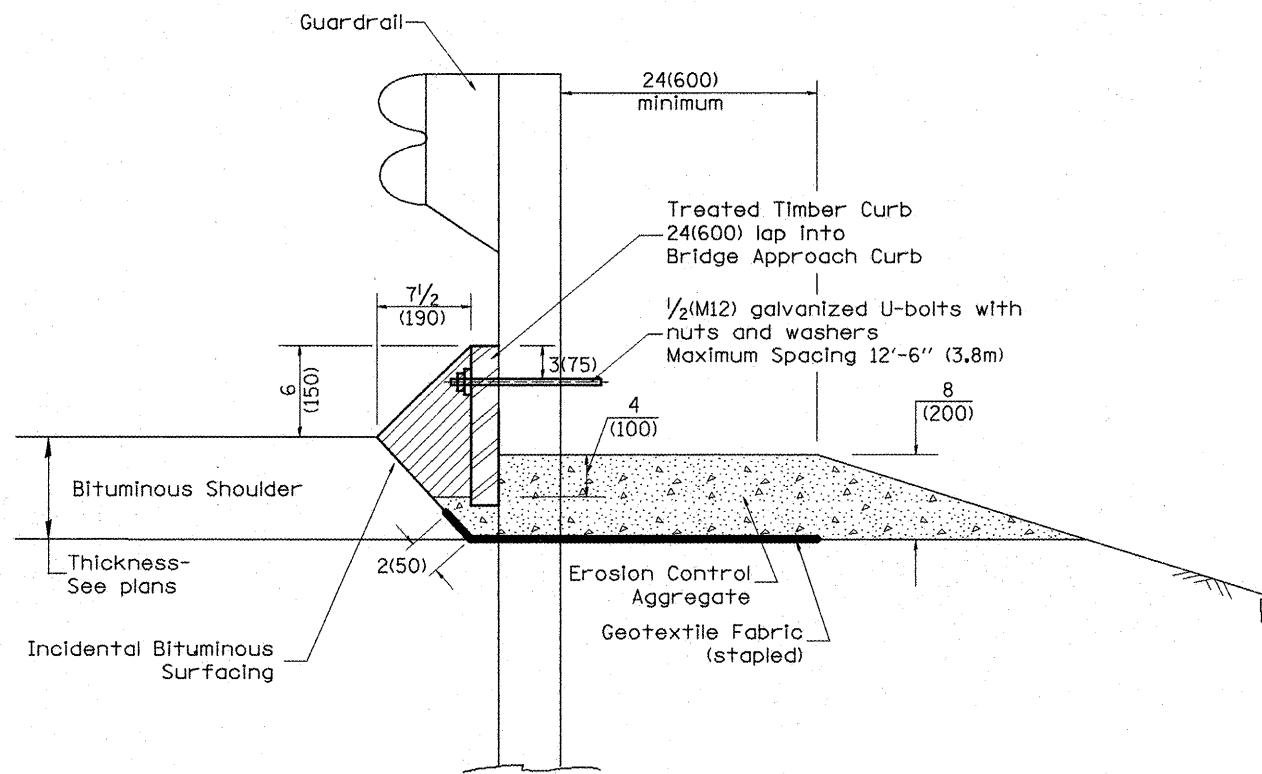

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**MAILBOX TURNOUTS FOR "3R" PROJECTS**  
NOT TO SCALE

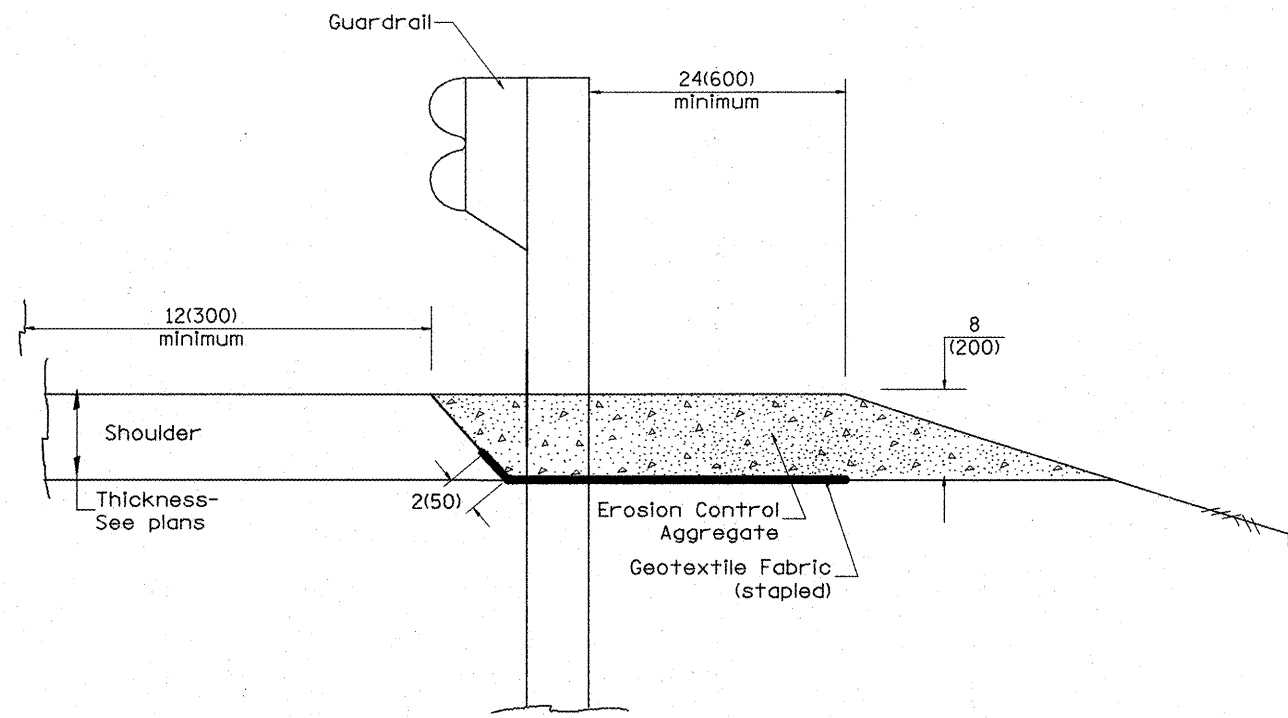
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
643	(11,12)RS-2;(6)RS-3;(10)RS-4	STARK	45	37
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 68747	

CADD STD. 406201-D4

1. Use EROSION CONTROL CURB AT GUARDRAIL INSTALLATIONS where grades are less than 1% (Include District Special Provision)  
 2. Use GUARDRAIL AGGREGATE EROSION CONTROL at guardrail installations where grades are less than 1% (Include District Special Provision)  
 3. Include State Standards 609001, 609006 or 610001 if applicable.  
 4. Include the following District Cadd Standards as needed: Slope Drains for Exposed Pipes; Seepage Collars for Buried Pipes; Seepage Collars for Buried Pipes; Slope Drains for Exposed Pipes; Slope Drains for Exposed Pipes; Concrete Thrust Blocks and Pipe Elbow.  
 5. Include District Special Provision "Aggregate Quality" for projects located in the Western Area of the District - approx. dividing line is IL 97.



**TYPICAL SECTION WITH EROSION CONTROL CURB**



**TYPICAL SECTION WITHOUT EROSION CONTROL CURB**

**GENERAL NOTES: EROSION CONTROL CURB**

1. This work shall consist of grading as needed, installing hardware and treated timber boards, furnishing and placing mastic material and incidental bituminous surfacing in front of Steel Plate Beam Guardrail in accordance with Plan Details.
2. Timber shall be treated in accordance with Article 1007.12. All preservatives specified in the article will be allowed. Waterborne preservatives "asa" and "cca" shall have a minimum retention of 0.40 lbs./cu. ft. (6.4 kg/m<sup>3</sup>)

**GENERAL NOTES: GUARDRAIL AGGREGATE EROSION CONTROL**

1. This work shall consist of grading as needed, furnishing and installing geotextile fabric and staples, and furnishing, placing and shaping crushed aggregate around and behind Steel Plate Beam Guardrail posts in accordance with Plan Details.
2. Before placing the aggregate and the Geotextile Fabric, weeds and grass shall be removed from the area to be covered.
3. After the area has been prepared, and in a dry condition, the Geotextile fabric shall be placed with a 12(300) minimum overlap. A knife cut for guardrail post installation is necessary.
4. The aggregate shall be deposited, compacted and shaped by either mechanical or hand methods, in a manner reasonably true to line and grade.
5. The Contractor shall have the option of placing the guardrail before or after the Geotextile Fabric and Aggregate are in place. If the guardrail is placed after the Geotextile Fabric and Aggregate, then any voids must be filled and the aggregate returned to line and grade.
6. Materials shall meet the following requirements:
  - A. The crushed aggregate shall be CA1 gradation in accordance with Article 1004.01(c) of the Standard Specifications.
  - B. The Geotextile Fabric shall be nonwoven fabric in accordance with Article 1080.02 of the Standard Specifications.

All dimensions are in inches (millimeters) unless otherwise noted.

01-01-97	RENUM. C-22.01, NEW REVISION BOX	T.P.		
03-01-97	CORRECT STD. NUMBERS IN NOTES PG. 2	J.A.		
11-03-00	CORRECTION TO NOTES	M.A.		
10-16-06	REVISED TO 2007 SPEC.	M.A.		

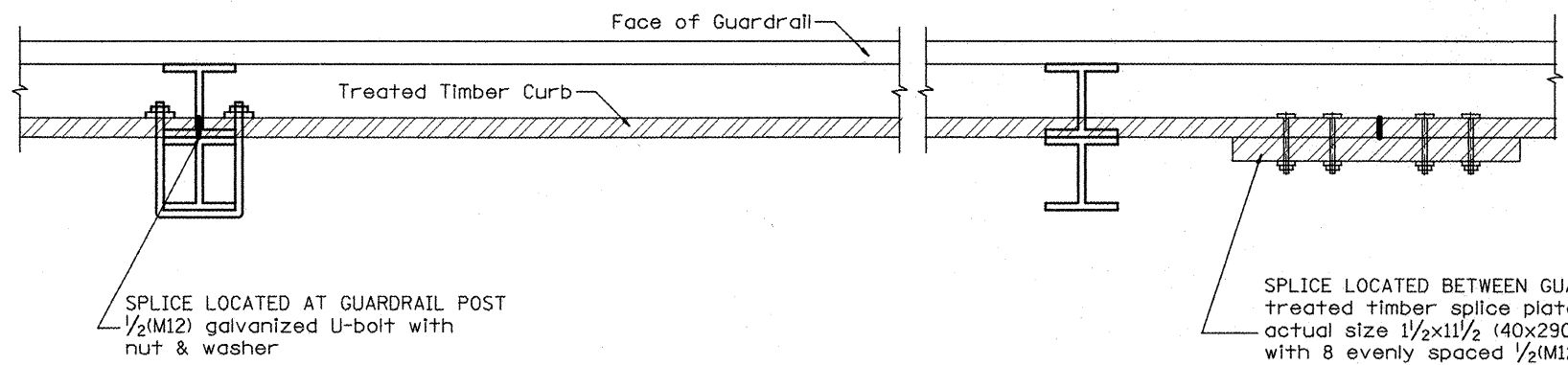
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**GUARDRAIL EROSION CONTROL TREATMENTS**

NOT TO SCALE

SHT. 1 OF 2  
CADD STD. 630101-D4

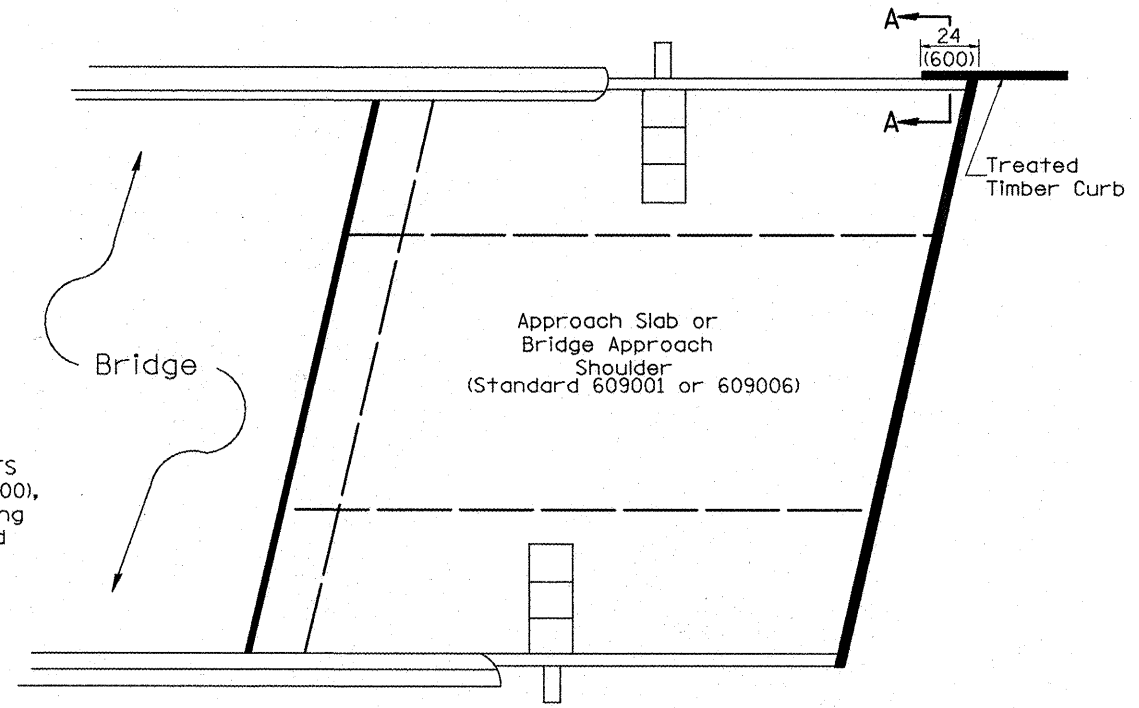
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
643	(11,12)RS-2;(6W)RS-3;(10)RS-4	STARK	45	38
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
			CONTRACT NO. 68747	



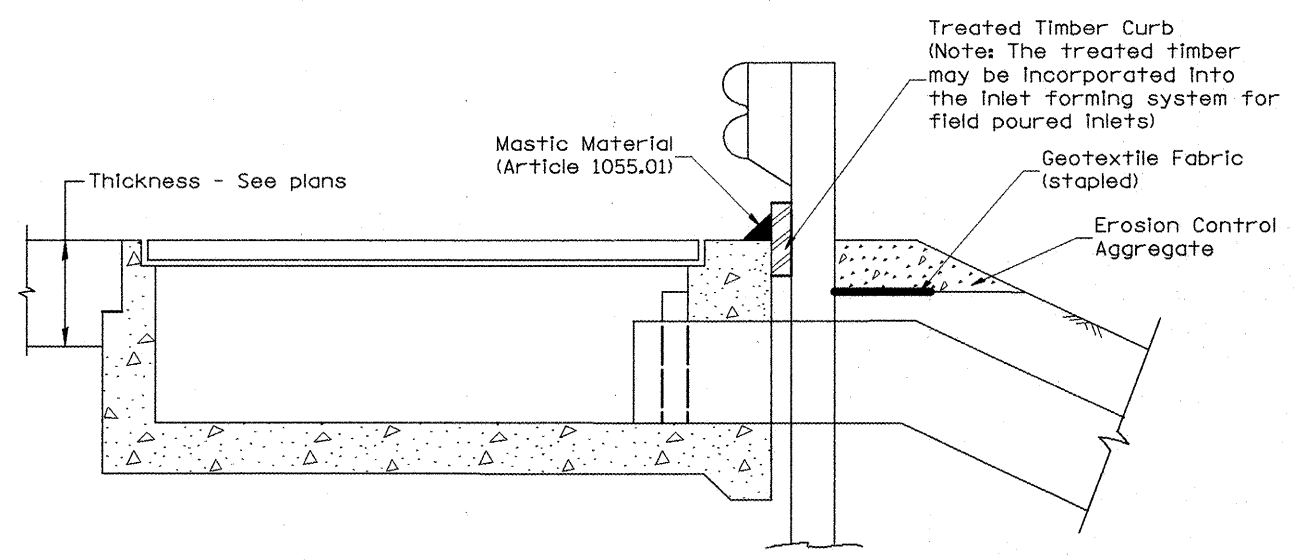
SPLICE LOCATED AT GUARDRAIL POST  
 $\frac{1}{2}$ (M12) galvanized U-bolt with  
 nut & washer

SPLICE LOCATED BETWEEN GUARDRAIL POSTS  
 treated timber splice plate 2x12 (50x300),  
 actual size  $1\frac{1}{2}$ x $1\frac{1}{2}$  (40x290), 24(600) long  
 with 8 evenly spaced  $\frac{1}{2}$ (M12) galvanized  
 bolts with nuts & washers.

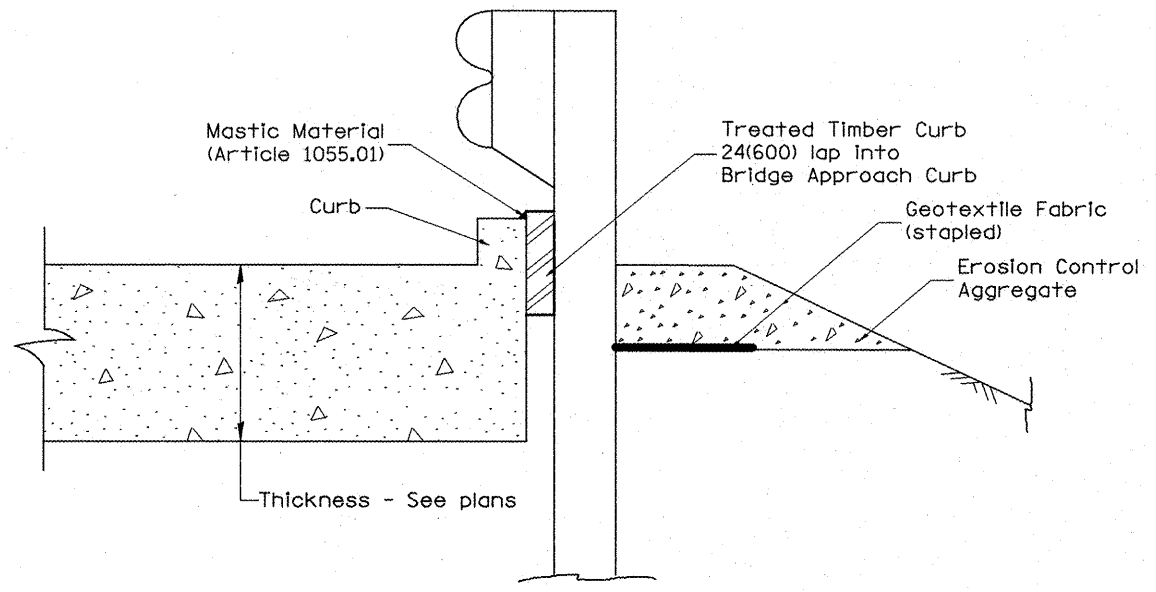
**DETAIL A**  
 (Typical Treated Timber Splices)



**PLAN VIEW**  
**APPROACH SLAB OR BRIDGE APPROACH SHOULDER**  
 (STANDARD 609001 or 609006)



**TYPICAL SECTION WITH EROSION CONTROL CURB**  
**AT INLETS TYPE E & F (STANDARD 610001)**

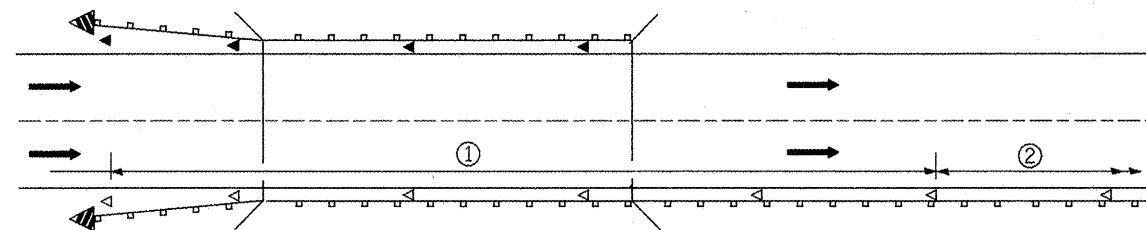


**SECTION A-A**  
**TYPICAL SECTION WITH EROSION CONTROL CURB**  
**AT BRIDGE APPROACH CURB**  
 (STANDARD 609001 OR 609006)

All dimensions are in inches (millimeters)  
 unless otherwise noted.

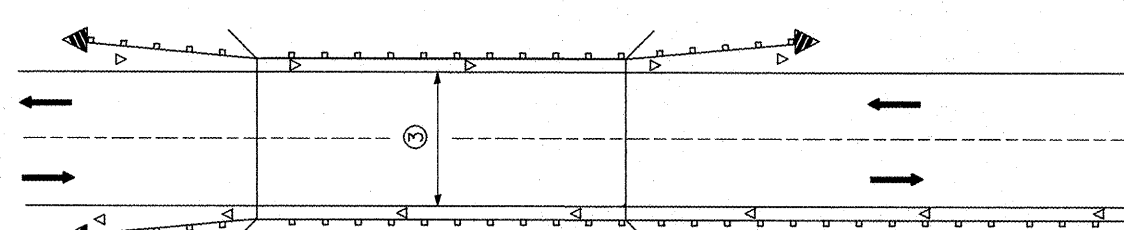
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		GUARDRAIL EROSION CONTROL TREATMENTS		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
				643	(11.12)RS-2;(6W)RS-3;101RS-4	STARK	45	39
NOT TO SCALE		SHT. 2 OF 2 CADD STD. 630101-D4		CONTRACT NO. 68747		ILLINOIS FED. AID PROJECT		
				FED. ROAD DIST. NO.				

DESIGNER NOTES:  
 1. INCLUDE APPROPRIATE SPECIAL PROVISIONS FOR "GUARD RAIL DELINEATION POLICY: 1. TERMINAL MARKER, 2. TERMINAL MARK POST, AND 3. GUARDRAIL AND BARRIER WALL MARKERS."  
 FROM INTERIM SPECIAL PROVISIONS 94-74; "GUARDRAIL AND BARRIER WALL DELINEATION."  
 2. IF POST MOUNT TERMINAL MARKER IS USED, INCLUDE STATE STD. T2001L.



- ① Spacing 80 ft. (24 m) max. for first 400 ft. (122 m) or curve spacing shown in Standard 635001, whichever is less (min. 4 reflectors regardless of length).
- ② After 400 ft. (122 m), transition to normal delineator spacing shown in Standard 635001, and continue as required.

**ONE-WAY TRAFFIC**



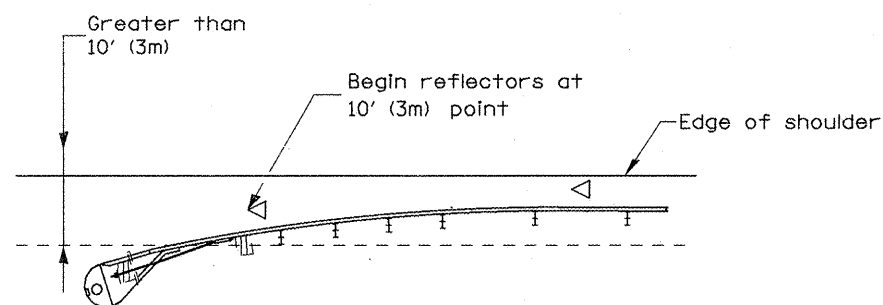
- ③ Bidirectional silver/silver should be used in lieu of monodirectional silver on both sides of two-lane bridges where the bridge pavement is less than 24 (610) wider than the pavement approaching the bridge.

**TWO-WAY TRAFFIC**

**GUARDRAIL / BARRIER WALL / BRIDGE RAIL REFLECTORS**

**LEGEND**

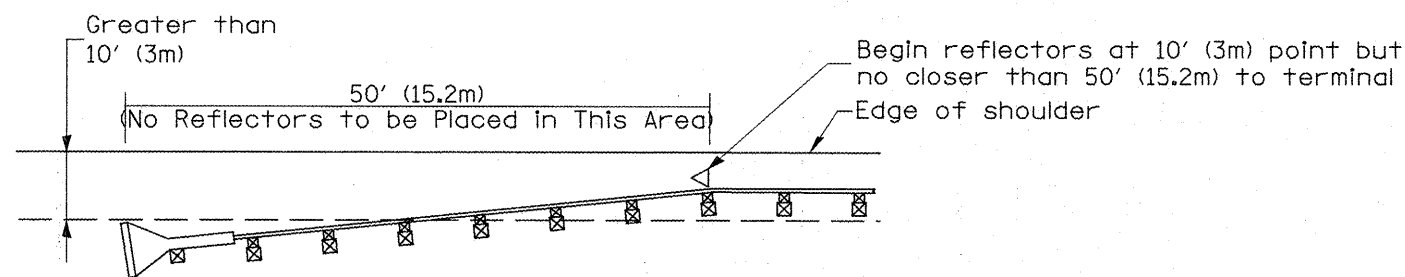
- ◁ Monodirectional silver
- ◄ Monodirectional amber
- ◄ Terminal Marker - Black/Yellow  
Left or Right as appropriate



NOTE: Omit terminal marker when terminal over 10' (3m) from edge of paved shoulder or break point of unpaved shoulder, or when terminal buried in backslope.

**Traffic Barrier Terminal Type(\*) and/or Turned-Down Terminal**

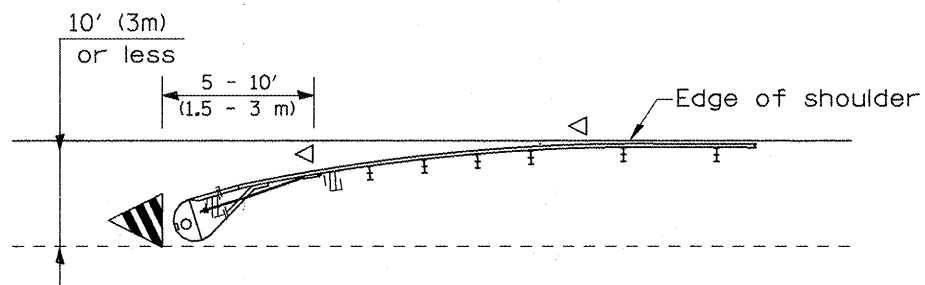
[Terminal over 10' (3m) from edge of shoulder]  
\*See Plans for Type



NOTE: Omit terminal marker when terminal over (10') from edge of paved shoulder or break point of unpaved shoulder.

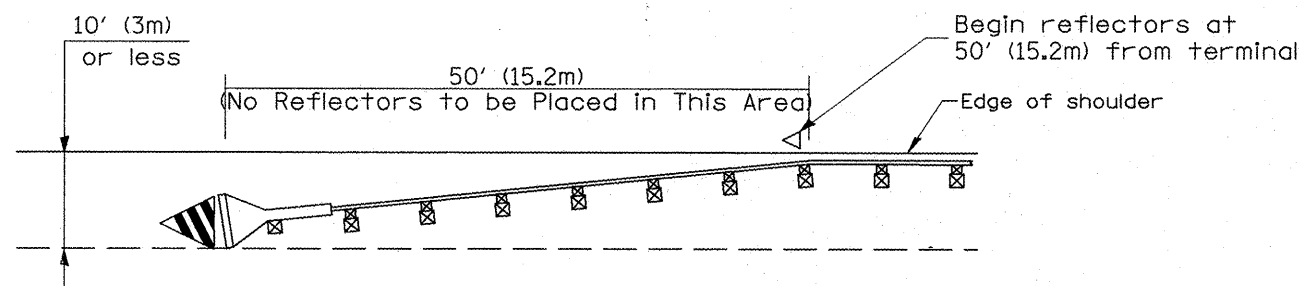
**Traffic Barrier Terminal Type 1 (Special)**

[Terminal over 10' (3m) from edge of shoulder]



**Traffic Barrier Terminal Type(\*) and/or Turned-Down Terminal**

[Terminal over 10' (3m) or less from edge of shoulder]  
\*See Plans for Type



**Traffic Barrier Terminal Type 1(Special)**

[Terminal 10' (3m) or less from edge of shoulder]

**TERMINAL MARKER PLACEMENT**

All dimensions are in inches (millimeters) unless otherwise noted.

01-01-97	RENUM. E-10.02, NEW REVISION BOX	T.P.			
03-01-97	CORRECT STD. SPEC. *	J.A.			
10-16-06	REVISED TO 2007 SPEC.	M.A.			

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

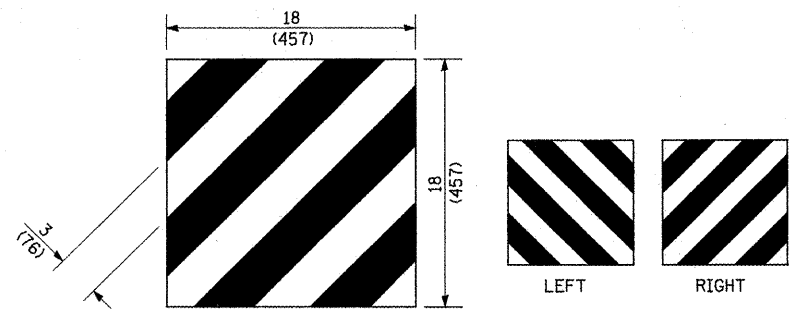
**GUARDRAIL AND BARRIER WALL DELINEATION**

NOT TO SCALE

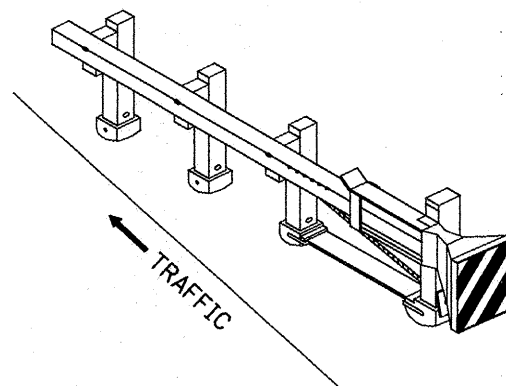
SHT. 1 OF 3  
CADD STD. 635101-D4

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
643	(11,12)RS-2;(6W)RS-3;(10)RS-4	STARK	45	40
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 68747	

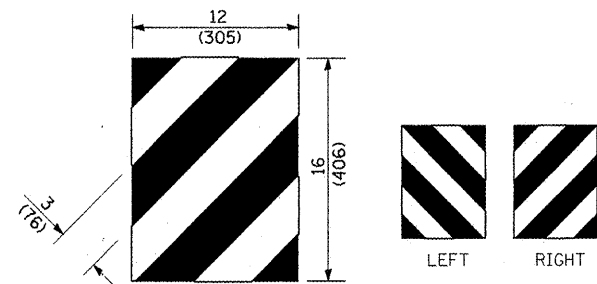




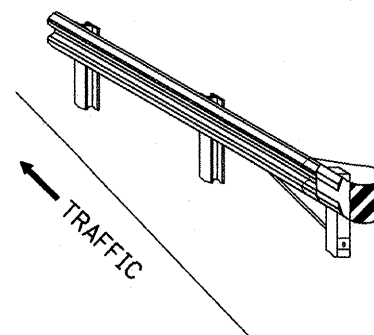
For Traffic Barrier Terminal Type 1 (Special)



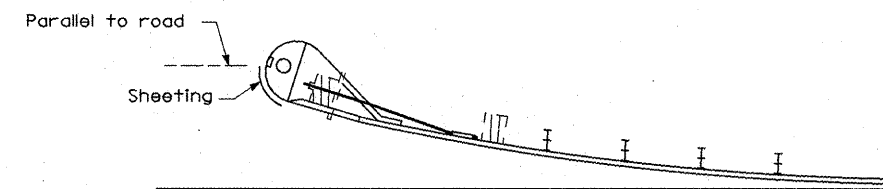
Standard Treatment - Direct Applied Sheeting  
Traffic Barrier Terminal Type 1 (Special)



For Traffic Barrier Terminal Type (\*)  
and Post Mount  
\* See Plans for Type



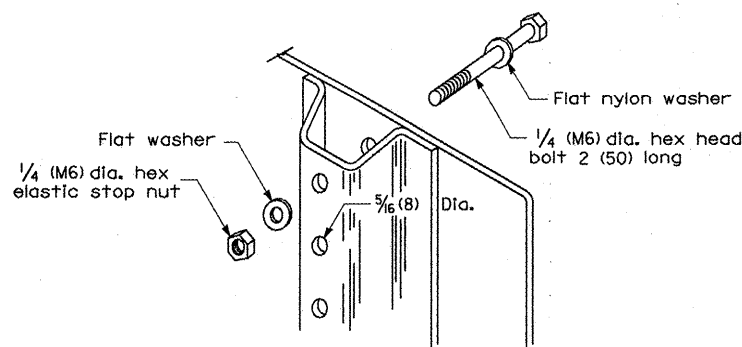
Standard Treatment - Direct Applied Sheeting  
Traffic Barrier Terminal Type (\*)  
\* See Plans for Type



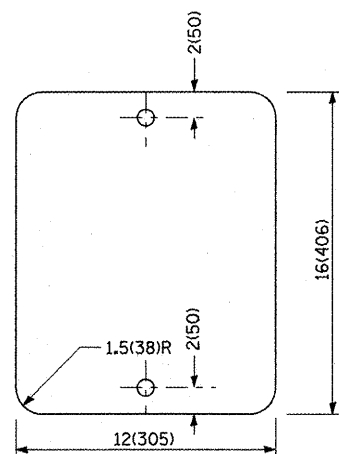
Sheeting Position for  
Traffic Barrier Terminal Type (\*)  
\* See Plans for Type

**TERMINAL MARKER DETAILS**

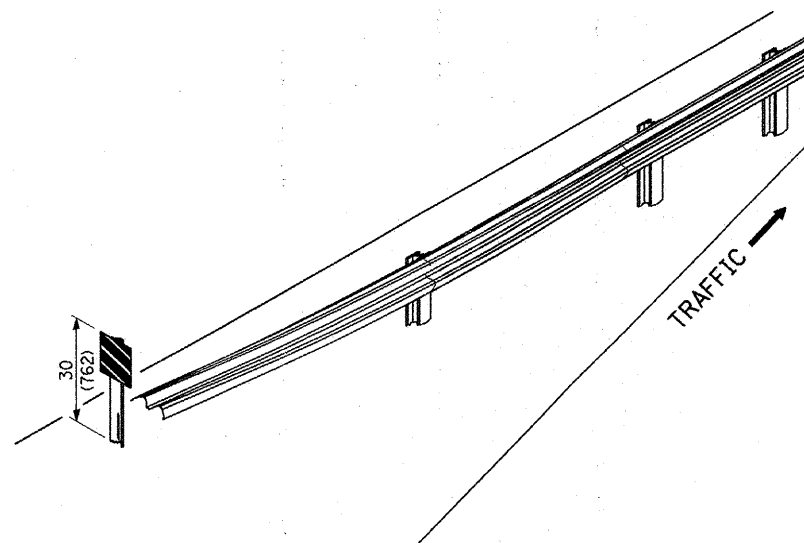
- Color: Black / Yellow reflectorized
- OM - I100 (L or R) Direct applied reflective sheeting
- OM - I200 (L or R) Post mounted



DETAIL OF MOUNTING TERMINAL MARKER TO POST



STANDARD TERMINAL MARKER



ALTERNATE TREATMENT - POST MOUNTED  
(For turned-down terminal where sheeting cannot be direct applied)

**TERMINAL MARKER TREATMENTS**

**GENERAL NOTES**

All dimensions are in inches (millimeters) unless otherwise noted.

**POST MOUNTED TERMINAL MARKER ASSEMBLY**

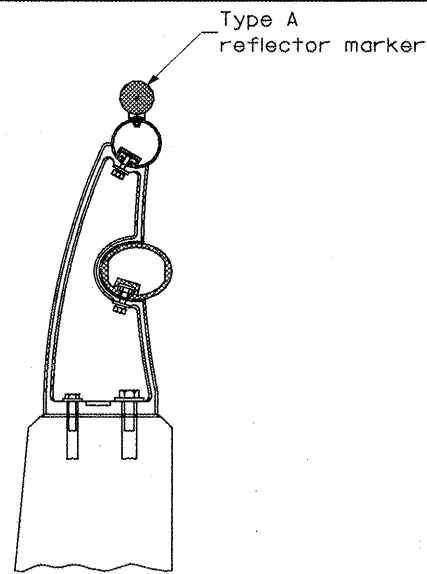
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

GUARDRAIL AND BARRIER WALL DELINEATION

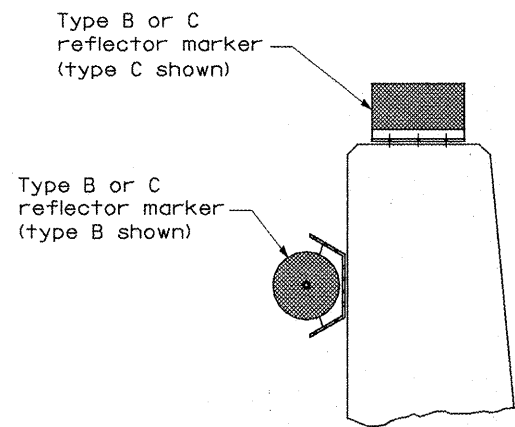
NOT TO SCALE

SHT. 2 OF 3  
CADD STD. 635101-D4

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
643	(11,12)RS-2;(6)WS-3;(10)RS-4	STARK	45	41
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 68747	

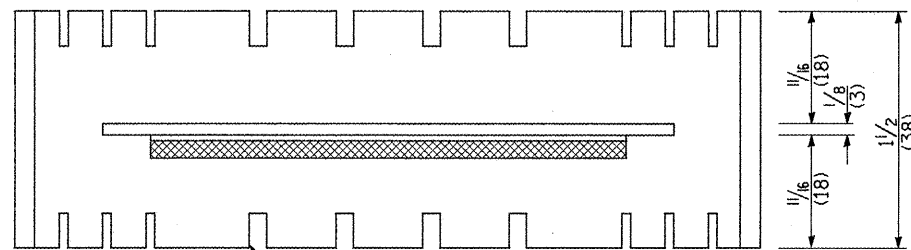


TYPICAL MOUNTING DETAIL FOR BRIDGE RAIL REFLECTOR

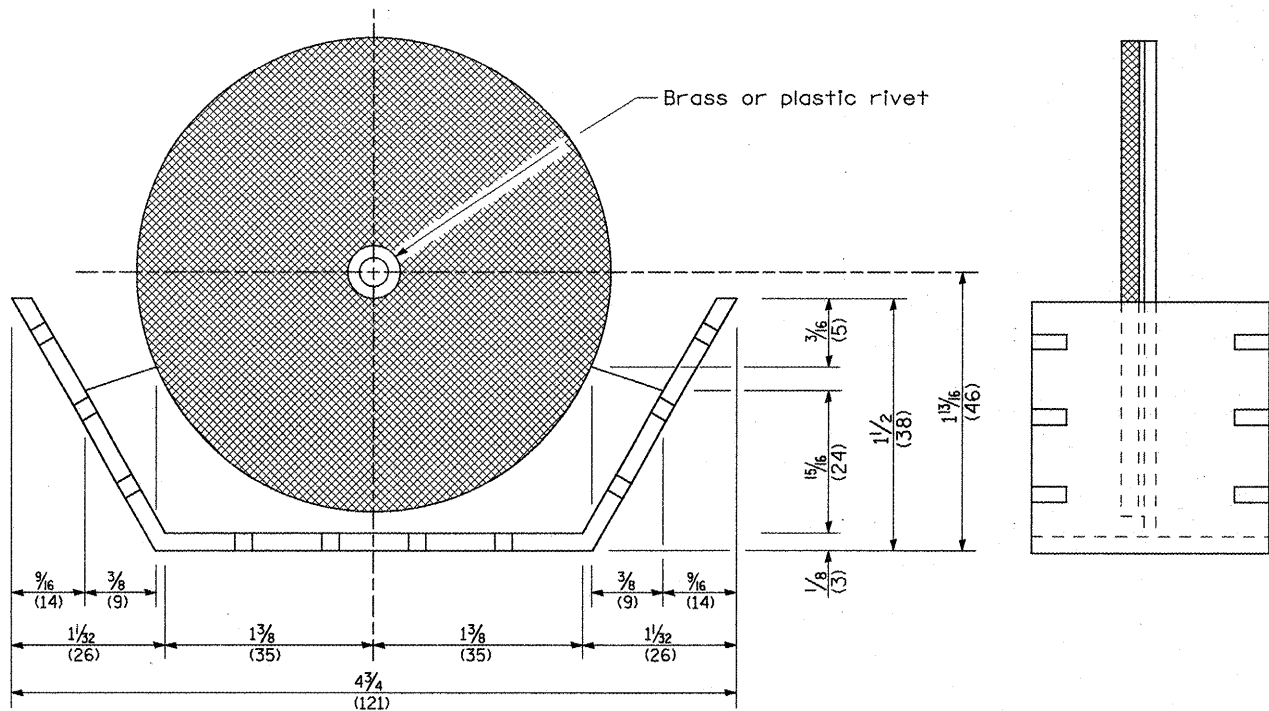


TYPICAL MOUNTING DETAIL FOR BARRIER WALL REFLECTOR

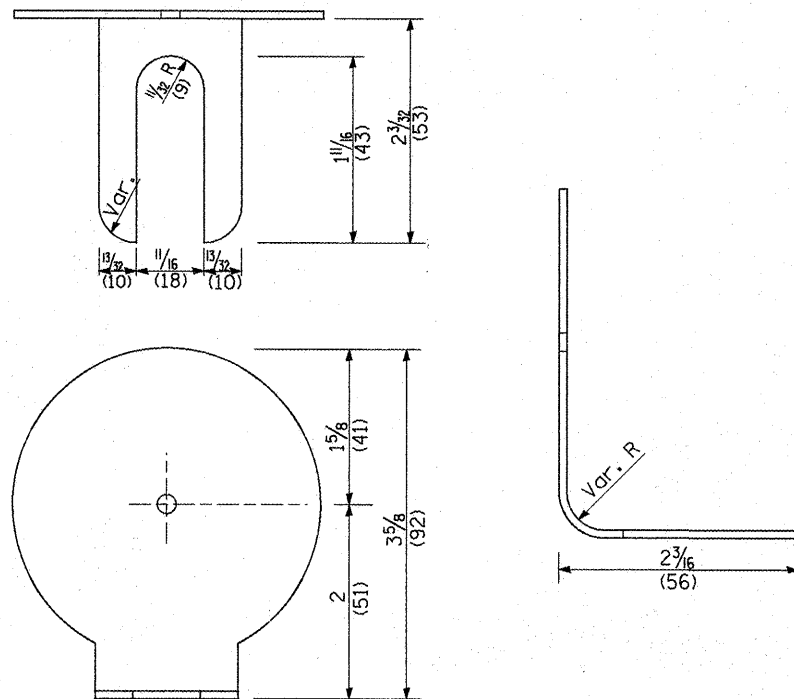
REFLECTOR MOUNTING



Adhesive weep slots or holes equally spaced on both sides

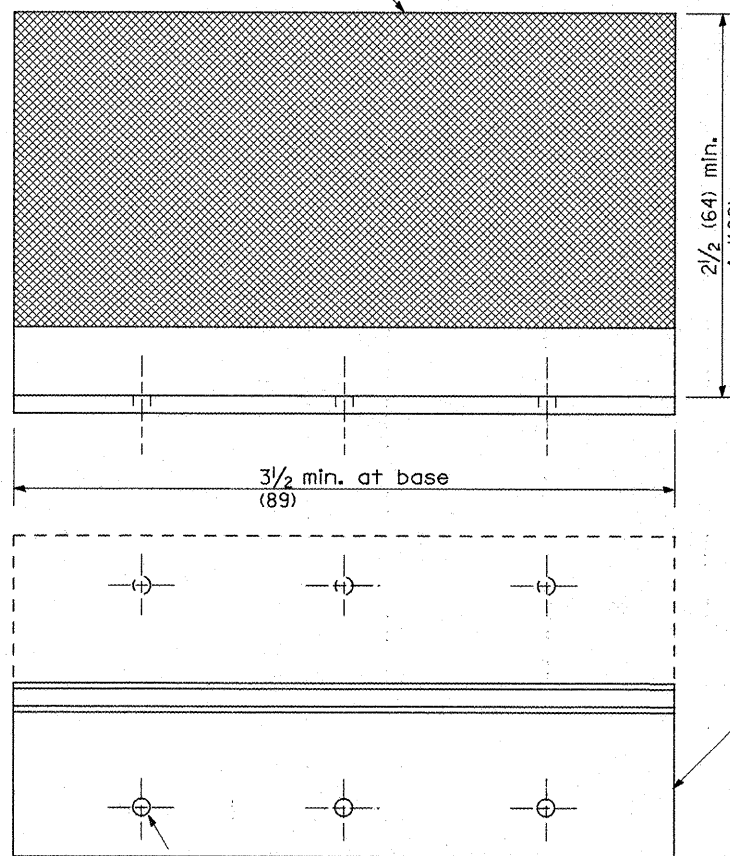


REFLECTOR MARKER TYPE B



REFLECTOR MARKER TYPE A

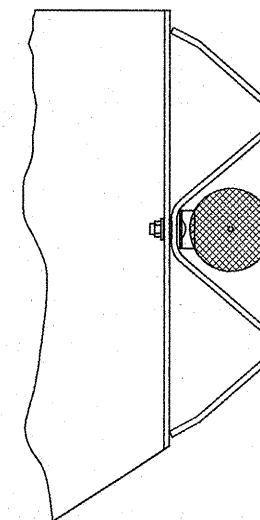
Min. reflective area 6 1/2 sq. in. (4,194 mm<sup>2</sup>) each side. May be rectangular or slight trapezoid.



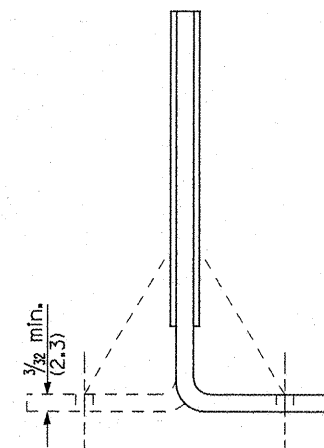
REFLECTOR MARKER TYPE C

3 min. adhesive weep holes or slots each side, variable spacing.

Minimum total area of base 7.0 Sq. in. (4,516 mm<sup>2</sup>)



TYPICAL GUARDRAIL MOUNTING WITH REFLECTOR MARKER TYPE A



Cross section may be "T" or "L" shaped and may have side supports at ends.

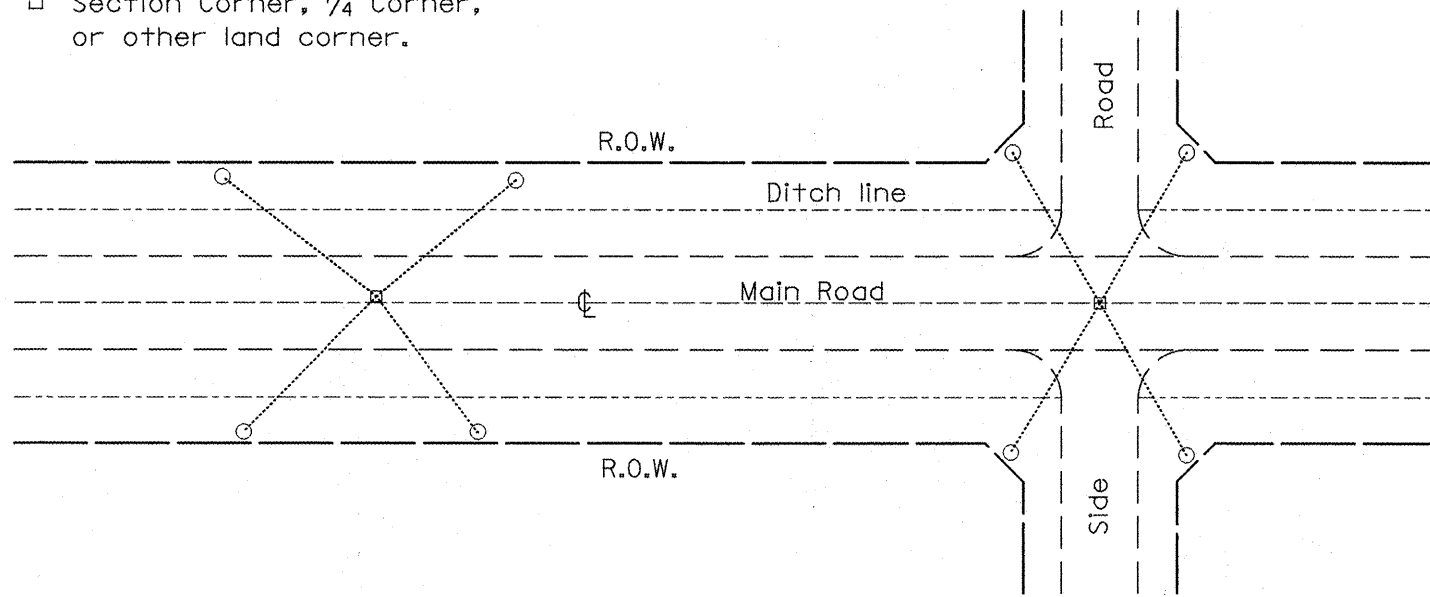
REFLECTORS

All dimensions are in inches (millimeters) unless otherwise noted.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
643	(11,12)RS-2+(6)WRS-3+(10)RS-4	STARK	45	42
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 68747	

**PERMANENT SURVEY TIES**

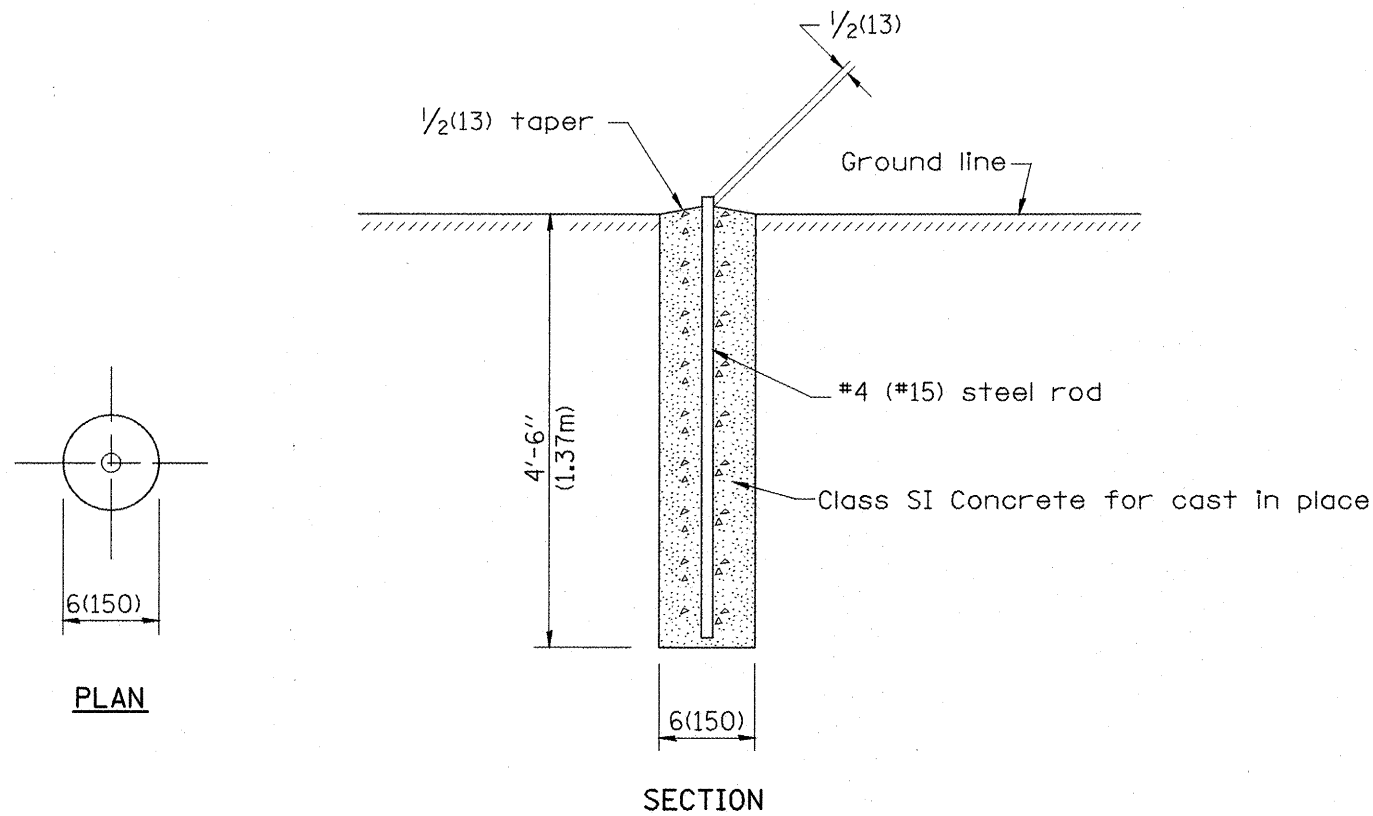
- Permanent Survey Tie
- Section Corner, 1/4 Corner, or other land corner.



**TYPICAL APPLICATION**

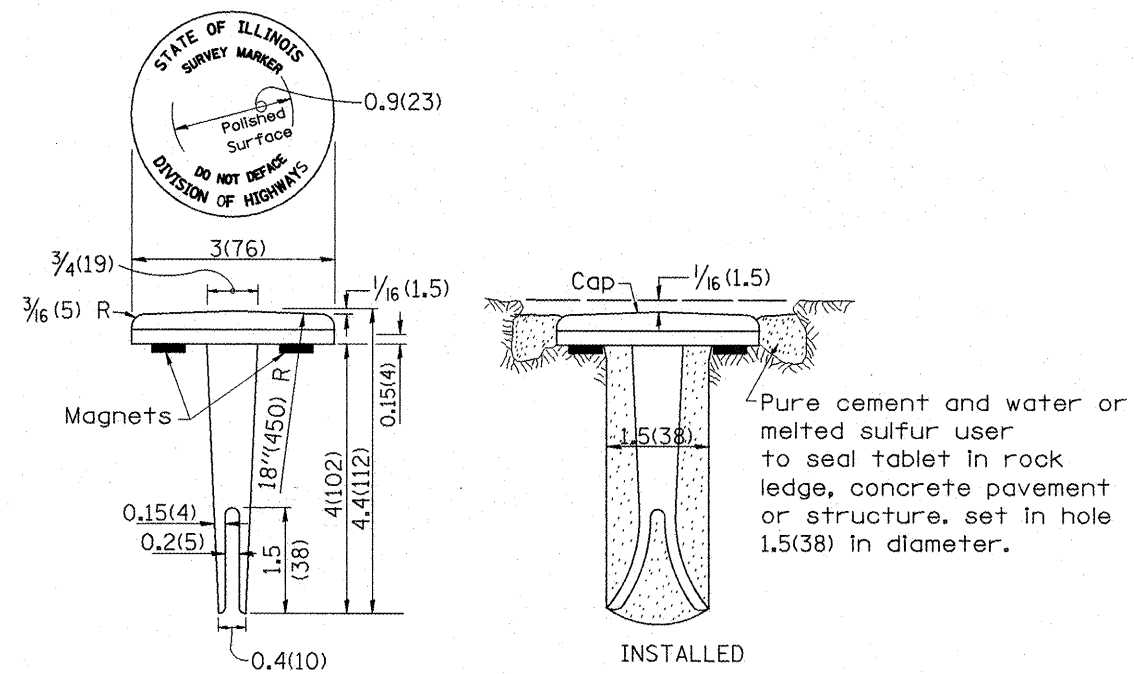
**GENERAL NOTES**

1. The marker shall be cast in place of Class SI Concrete.
2. Tie marker shall be installed after the final seeding has been completed unless otherwise specified by the Engineer.
3. The tie distances to the section corner shall be measured and recorded by the IDOT Chief of Surveys.



**SECTION**

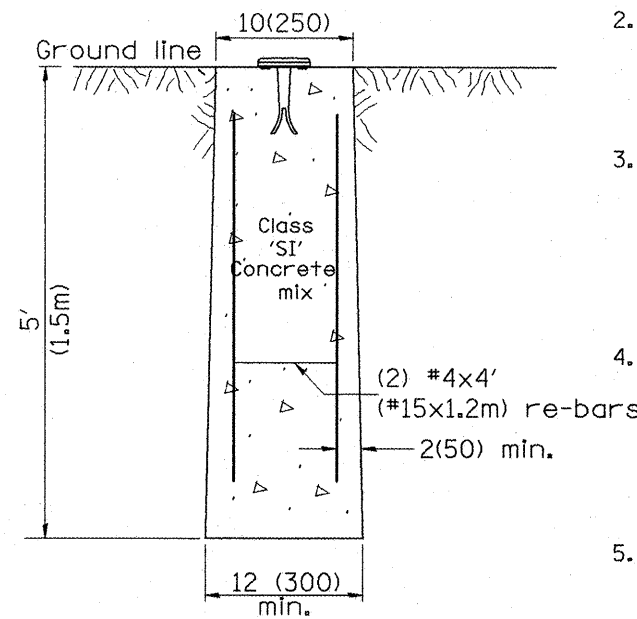
**PERMANENT SURVEY MARKERS**



**BRONZE TABLET - No Scale TYPE I**

**GENERAL NOTES**

1. All type II markers shall be cast in place, and precast markers will not be allowed.
2. Two permanent magnets, each having a diameter of 3/4 (19) and a thickness of 1/4 (6), or equivalent, shall be attached to the underside of the tablet with an approved epoxy bonding agent.
3. The location of the markers shall be in accordance with the plans in general, the markers will be placed at the P.T.'s and P.C.'s of horizontal curves and spaces along the tangents in a way that a minimum of two markers are always inter-visible, and not to exceed 1000' (300m).
4. The markers shall be placed under the direction of the Engineer and shall be installed in a workmanlike manner in order that there will be no further settlement or horizontal shifting. The monuments shall be placed in a way that the survey point will fall within the portion of the plaque provided for that purpose.
5. The project designation, the centerline station, the survey point, and the elevation shall be permanently marked by the use of metal dies after marker has been installed.



**MARKER CAST IN PLACE TYPE II**

All dimensions are in Inches (millimeters) unless otherwise noted.

DESIGNER NOTES:  
1. ADD DISTRICT SPECIAL PROVISION.  
2. MODIFIES STATE STD 667101 TO CALL FOR "BRONZE" TABLET.

01-01-97	RENUM. D-3.01, NEW REVISION BOX, REVISED	T.P.	10-16-06	REVISED TO 2007 SPEC.	M.A.
07-07-98	TITLE BOX, ADD DESIGNER NOTE	J.A.			
05-24-06	ADDED DESIGNER NOTE	J.A.			
	REMOVED GEN. NOTE UNDER TIES	M.A.			

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

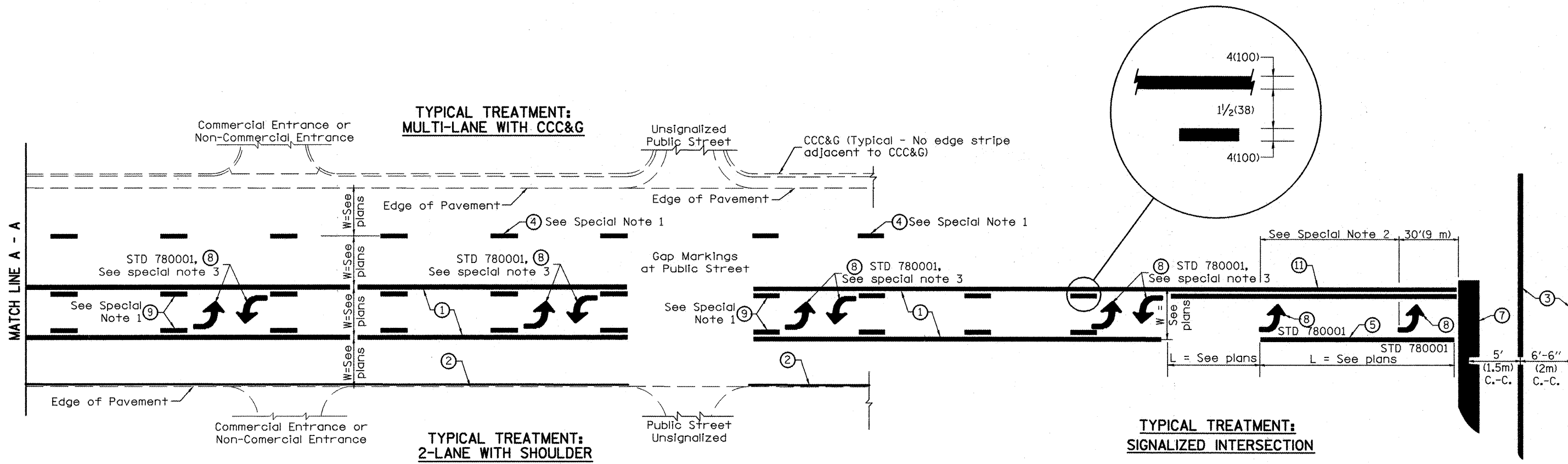
**PERMANENT SURVEY TIE &  
PERMANENT SURVEY MARKERS TY-I - TY-II**

NOT TO SCALE

CADD STD. 667101-D4

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
643	(11,12)RS-2;(6)WRS-3;(10)RS-4	STARK	45	43
CONTRACT NO. 68747				
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

DESIGNER NOTES:  
1. Include State Standard 780001 (Typical Pavement Markings)



**FLUSH PAVED MEDIAN: TWO-WAY LEFT TURN LANE  
WITH ONE-WAY LEFT TURN LANE AT SIGNALIZED INTERSECTION**

**TYPICAL PAVEMENT MARKING LEGEND**

(Note: This is a District Standard Legend. Some elements may not apply to specific project.)

- ① 4(100) Solid (Yellow)
- ② 4(100) Solid (White)
- ③ 2-6(150) Crosswalk @ 6'-6" (2m)min C.-C. (White)  
2-8(200) Crosswalk @ 6'-6" (2m)min C.-C. (White) (When traffic signals are present.)
- ④ 6(150) Skip-Dash (White) (See Special Note 1)
- ⑤ 8(200) Solid (White)
- ⑥ 12(300) Diagonal (White) (Item ⑥ is shown on Std. 780001)
- ⑦ 24(600) Stop Bar (White)
- ⑧ Letters & Arrows (See Std. 780001 and Special Notes 2 & 3)
- ⑨ 4(100) Skip-Dash (Yellow) (See Special Note 1)
- ⑩ 12(300) Diagonal (Yellow) (See Table A)
- ⑪ 4(100) Double Solid (Yellow) (See Table A)

**SPECIAL NOTES**

1. Skip-Dash markings will be centered between both ends of city blocks and shall be placed in alignment transversely across the pavement.
2. The following shall apply to arrows located in one-way left turn lanes:
  - A. A minimum of two (2) arrows is required.
  - B. The maximum spacing between arrows is 80' (24 m).
  - C. Arrows shall be evenly spaced if three (3) or more are required.
3. The following shall apply to arrow pairs located in two-way left turn lanes:
  - A. A minimum of two (2) arrow pairs is required.
  - B. The maximum spacing between arrow pairs is 200' (61 m).
  - C. Arrow pairs shall be evenly spaced if three (3) or more are required.
  - D. The spacing between Bi Directional Left Turn Arrows is 33' (10 m).

**GENERAL NOTES**

1. Refer to State Standard 780001 for additional Pavement Markings including letters & arrows.
2. See Plans for Pavement Markings adjacent to curbed islands and medians, and through lane reductions.

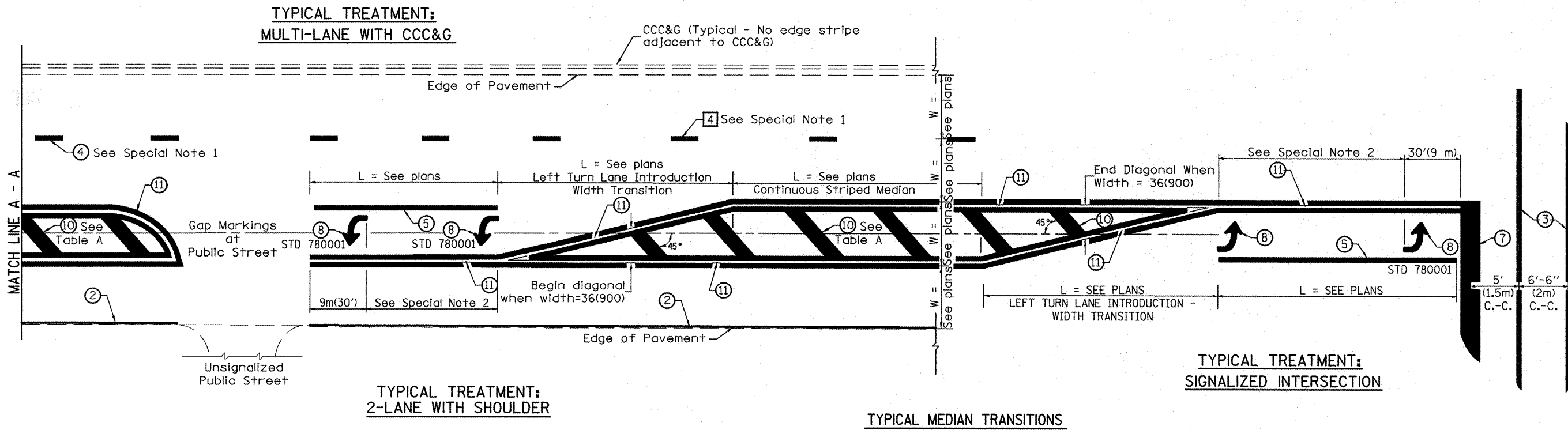
01-01-97	RENUM. F-8,03, NEW REVISION BOX	T.P.	10-16-06	REVISED TO 2007 SPEC.
02-07-97	ADD BI DIRECTIONAL DIMENSION	J.A.		
10-97	CORRECT BI DIRECTIONAL DIMENSION	J.A.		
08-02	ADD CROSSWALK DMNS. WITH T.S.	M.A.		

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TYPICAL PAVEMENT MARKINGS**  
NOT TO SCALE

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
643	(11,12)RS-2;(6)WRS-3;(10)RS-4	STARK	45	44
FED. ROAD DIST. NO.			CONTRACT NO. 68747	
ILLINOIS FED. AID PROJECT				

SHT. 1 OF 2  
CADD STD. 780001-D4



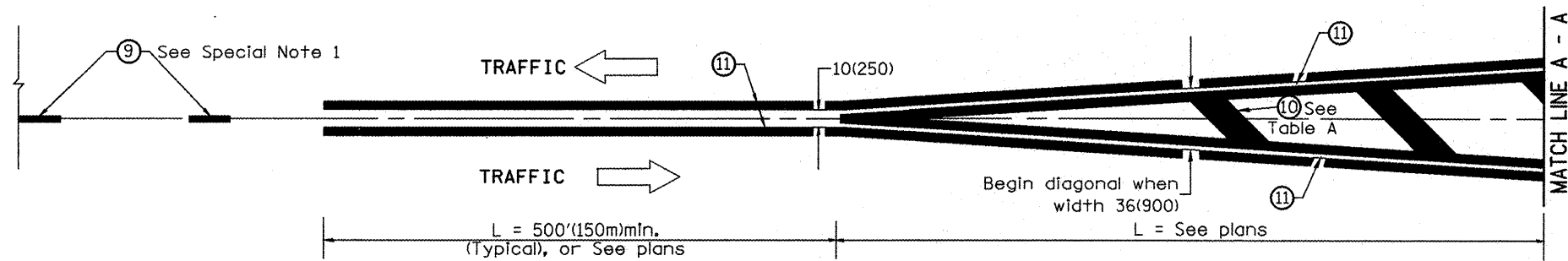
FLUSH PAVED MEDIAN: RESTRICTED LEFT TURN LANE

TYPICAL MEDIAN TRANSITIONS

TYPICAL TREATMENT: SIGNALIZED INTERSECTION

TABLE A  
RECOMMENDED SPACING BETWEEN DIAGONAL LINES

SPEED LIMIT RANGE	INTERSECTION CHANNELIZATION (Includes Width Transitions for Median and Left Turn Lane Introductions)	
	CONTINUOUS	
Less Than 30 mph (50 km/h)	50' (15m)	15' (5m)
30 - 45 mph (50 - 70 km/h)	75' (23m)	20' (6m)
Over 45 mph (70 km/h)	150' (46m)	30' (9m)



MEDIAN INTRODUCTION - WIDTH TRANSITIONS

All dimensions are in inches (millimeters) unless otherwise noted.

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TYPICAL PAVEMENT MARKINGS

NOT TO SCALE

SHT. 2 OF 2  
CADD STD. 780001-D4

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
643	(11,12)RS-2;(6)WS-3;(10)RS-4	STARK	45	45
CONTRACT NO. 68747				