

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
698 649	123RS-4; (122, 124)RS-5; 2RS-3, 3RS-4	MARSHALL PUTNAM	40	1
		ILLINOIS	CONTRACT NO. 68915	

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

# PROPOSED HIGHWAY PLANS

F.A.P. ROUTE 649 (IL 17) & 698 (IL 89)  
SECTION 123RS-4; (122, 124)RS-5; 2RS-3 ETC  
PROJECT ESP-HSIP-000S(802)  
SURFACE MAINTENANCE /SAFETY  
MARSHALL & PUTNAM COUNTIES

C-94-131-09

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22. COLLAR FOR BOX CULVERTS DETAIL
23. SIDEROAD TREATMENT DETAIL
24. RUMBLE STRIP DETAIL
- 25.-28. GUARDRAIL INSTALLATION DETAIL
- 29.-40. DISTRICT STANDARDS  
HIGHWAY STANDARDS

### HIGHWAY STANDARDS

442201-03	701006-03	701326-03
482001-02	701011-02	701336-05
542311-01	701201-03	701901-01
630001-08	701301-03	781001-03
635006-03	701306-02	
642001-01	701311-03	

### DISTRICT STANDARDS

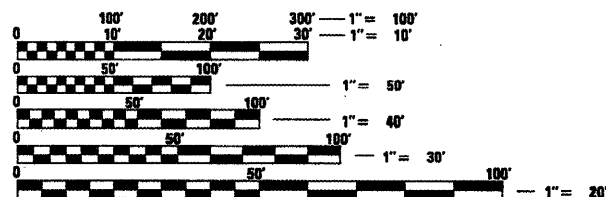
406101-D4	667101-D4
440001-D4	780001-D4
630101-D4	

### DESIGN DESIGNATION

RURAL MINOR ARTERIAL	
IL 17	IL 89
ADT: 3650 (2007)	2200 (2007)
MU: 12.3%	15.9%
SU: 4.8%	5.7%

### PROJECT DESCRIPTION

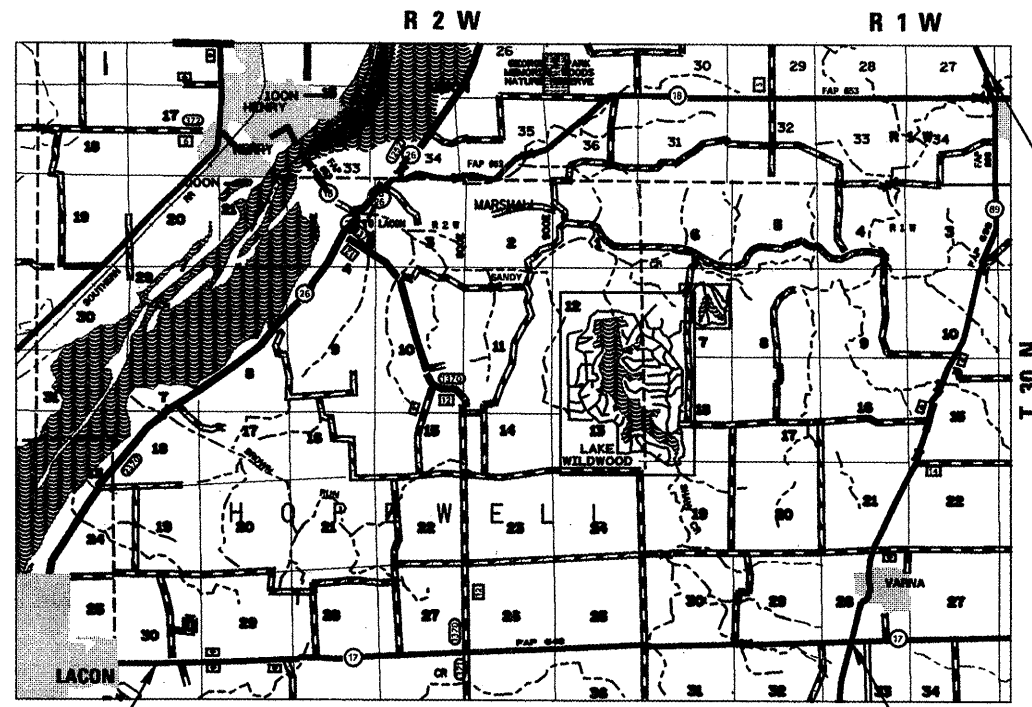
THE WORK CONSISTS OF PATCHING, RESURFACING, CONSTRUCTION OF HMA SHOULDER, INSTALLATION OF SAFETY GRATES AND OTHER COLLATERAL WORK.



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: CHRISTOPHER MAUSHARD (309) 671-3453  
PROJECT MANAGER: MIKE MOHAMED (309) 671-3462  
CATALOG NO. 034286-00D  
CONTRACT NO. 68915



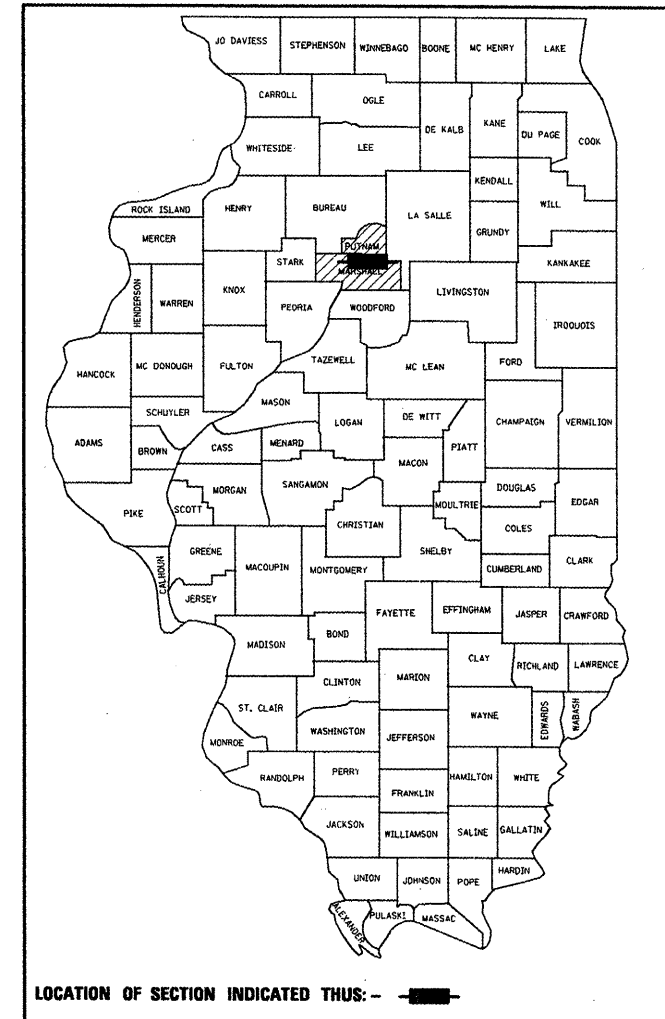
PROJECT BEGINS  
STA. 65 + 59.00 (IL 17)

PROJECT ENDS  
STA. 460 + 11.00 (IL 17)  
STA. 45 + 08.40 (IL 89)

PROJECT ENDS  
STA. 562 + 00.00 (IL 89)

GROSS LENGTH = 81,102.00 FT. = 15.36 MILES  
NET LENGTH = 80,633.86 FT. = 15.27 MILES

D-94-082-09



LOCATION OF SECTION INDICATED THUS: —■—

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

SUBMITTED *Dec 10 09*

*Scott E. Still P.E.*  
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER  
ENGINEER OF DESIGN AND ENVIRONMENT

*Christine M. Reed*  
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

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OF THE STATE OF ILLINOIS

**COMMITMENTS**

NO COMMITMENTS HAVE BEEN MADE ON THIS PROJECT

**GENERAL NOTES**

**PROPERTY OWNER ACCESS REQUIREMENT**

ACCESS MUST BE MAINTAINED TO ALL EXISTING PROPERTIES DURING CONSTRUCTION PER ARTICLE 107.09 UNLESS ARRANGEMENT ARE MADE IN WRITING BY THE CONTRACTOR WITH THE PROPERTY OWNERS WITH A COPY TO THE ENGINEER FOR SHORT-TERM CLOSURES.

**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.

**HOT-MIX ASPHALT MIXTURE REQUIREMENTS**

MIXTURE USE(S):	SURFACE COURSE 1 1/2"	CLASS D PATCHES	HMA SHOULDER (TOP LIFT)	HMA SHOULDER (BOTTOM LIFTS)	INCIDENTAL SURFACE COURSE
AC/PG:	PG 64-22	PG 64-22	PG 64-22	PG 64-22	PG 64-22
RAP% (MAX):**	15%	25%	30%	30%	15%
DESIGN AIR VOIDS:	4.0% @ N=50	4.0% @ N=50	3.0% @ N=30	4.0% @ N=30	4.0% @ N=50
MIXTURE COMPOSITION: (GRADATION MIXTURE)	IL 9.5 or IL12.5	IL 19.0	IL 9.5L	IL 19.0L	IL 9.5 or IL12.5
FRICTION AGGREGATE:	MIXTURE D	N.A	MIXTURE C	N.A	MIXTURE C

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

**GENERAL NOTES (CONTINUED)**

**AGGREGATE FOR DRIVEWAY PLACEMENT**

THE MATERIAL USED FOR CONSTRUCTION OF PERMANENT AGGREGATE DRIVEWAYS SHALL BE GRAVEL OR CRUSHED STONE, AS DIRECTED BY THE ENGINEER, TO REPLACE IN KIND THE EXISTING AGGREGATE DRIVEWAYS.

NO ADDITIONAL COMPENSATION SHALL BE PROVIDED FOR THIS REQUIREMENT BUT SHALL BE CONSIDERED AS INCLUDED IN THE COST OF THE PAY ITEM FOR THE AGGREGATE AS SPECIFIED ON THE PLANS.

**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 INCH (20mm) WIDE, 5 INCHES (125mm) HIGH AND 5/8 INCH (15mm) DEEP.

THE PAVEMENT STATION NUMBERS SHALL BE INSTALLED AS SPECIFIED HEREIN:

INTERVAL - 200 FEET (ENGLISH STATIONING) OR 100 METERS (METRIC STATIONING)

BOTTOM OF NUMBERS - 6 INCHES (150mm) 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 PLACE SO THEY CAN BE READ FROM THE ADJACENT SHOULDER

FORMAT - ENGLISH (METRIC) PAVEMENT STATIONS SHALL USE THIS FORMAT "XXX (XX+X00)" WHERE X REPRESENTS THE PAVEMENT STATION

THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT WILL BE CONSIDERED INCLUDED IN THE COST OF ASSOCIATED PAVEMENT AND/OR OVERLAY PAY ITEMS.

**BUTT JOINT TIME CUTTING RESTRICTION**

BUTT JOINTS SHALL NOT BE MILLED MORE THAN THREE (3) DAYS PRIOR TO PLACEMENT OF THE BITUMINOUS SURFACE COURSE.

**PAVING SURFACE COURSE**

CONTINUOUS PAVING OPERATIONS ON THE MAIN ROADWAY SHALL BE MAINTAINED AT ALL TIMES DURING THE CONSTRUCTION OF THE HOT-MIX ASPHALT SURFACE. NO INTERRUPTIONS FOR SIDE ROADS, ENTRANCES, TURN LANES, ETC. WILL BE ALLOWED.

**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.



### SUMMARY OF QUANTITIES

CODE NO.	PAY ITEM	UNIT	TOTAL QUANTITY	1000 ESP MARSHALL CO. 100% FED.	1000 ESP PUTNAM CO. 100% FED.	1000-2A HSIP MARSHALL CO. 90% FED. 10% STATE	1000-2A HSIP PUTNAM CO. 90% FED. 10% STATE	1000 MARSHALL CO. 100%- STATE	1000 PUTNAM CO. 100%- STATE
28000400	PERIMETER EROSION BARRIER	FOOT	60	60					
40200800	AGGREGATE SURFACE COURSE, TYPE B	TON	37	34	3				
40600215	POLYMERIZED BITUMINOUS MATERIALS (PRIME COAT)	TON	112	103	9				
40600300	AGGREGATE (PRIME COAT)	TON	478	439	39				
40600895	CONSTRUCTING TEST STRIP	EACH	1	1					
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	1,138	833	305				
40600990	TEMPORARY RAMP	SQ YD	568	416	152				
40603335	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50	TON	19,844	18,243	1,601				
40800050	INCIDENTAL HOT-MIX ASPHALT SURFACING	TON	279	250	29				
44000152	HOT-MIX ASPHALT SURFACE REMOVAL, 3/4"	SQ YD	131,700	131,700					
44000155	HOT-MIX ASPHALT SURFACE REMOVAL, 1 1/2"	SQ YD	106,216	87,164	19,052				
44201839	CLASS D PATCHES, TYPE II, 16 INCH	SQ YD	2,219	2,219					
44201843	CLASS D PATCHES, TYPE III, 16 INCH	SQ YD	376	376					
44201845	CLASS D PATCHES, TYPE IV, 16 INCH	SQ YD	533	533					
44201863	CLASS D PATCHES, TYPE II, 18 INCH	SQ YD	1,104	971	133				
44201867	CLASS D PATCHES, TYPE III, 18 INCH	SQ YD	52	52					
44201869	CLASS D PATCHES, TYPE IV, 18 INCH	SQ YD	116	116					
48101200	AGGREGATE SHOULDERS, TYPE B	TON	5,299	4,894	405				
48203100	HOT-MIX ASPHALT SHOULDERS	TON	24,899			23,103	1,796		
50800105	REINFORCEMENT BARS	POUND	40	40					
54002070	EXPANSION BOLTS 3/4 INCH X 15 INCH	EACH	16	16					

FILE NAME = 68915 - Phase II.dgn

USER NAME = johnsonv	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100.0000' / 1"	CHECKED -	REVISED -
PLOT DATE = 12/10/2009	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES**

SCALE: SHEET NO. 1 OF 3 SHEETS STA. TO STA.

F.A.P. RTE. 698 649	SECTION 123RS-4,122,124RS-5,2RS-3,3RS-4	COUNTY MARSHALL PUTNAM	TOTAL SHEETS 40	SHEET NO. 4
CONTRACT NO. 68915				
ILLINOIS FED. AID PROJECT				

**SUMMARY OF QUANTITIES**

CODE NO.	PAY ITEM	UNIT	TOTAL QUANTITY	1000 ESP MARSHALL CO. 100% FED.	1000 ESP PUTNAM CO. 100% FED.	1000-2A HSIP MARSHALL CO. 90% FED 10% STATE	1000-2A HSIP PUTNAM CO. 90% FED 10% STATE	1000 MARSHALL CO. 100%- STATE	1000 PUTNAM CO. 100%- STATE
54214929	PRECAST REINFORCED CONCRETE FLARED END SECTIONS -ARCH, EQUIVALENT ROUND-SIZE 24"	EACH	2	2					
54248130	GRATING FOR CONCRETE FLARED END SECTION EQUIVALENT ROUND-SIZE 24"	EACH	10			10			
54248160	GRATING FOR CONCRETE FLARED END SECTION EQUIVALENT ROUND-SIZE 36"	EACH	10			10			
54248510	CONCRETE COLLAR	CU YD	0.6	0.6					
63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	125	125					
63100167	TRAFFIC BARRIER TERMINAL, TYPE 1(SPECIAL) TANGENT	EACH	55	45	10				
63200310	GUARDRAIL REMOVAL	FOOT	125	125					
63300900	VERTICAL ADJUSTMENT OF GUARD RAIL	FOOT	188	188					
63304385	TRAFFIC BARRIER TERMINAL REMOVAL, TYPE 1	EACH	55	45	10				
63500105	DELINEATORS	EACH	5	5					
64200105	SHOULDER RUMBLE STRIP	FOOT	138,958			127,760	11,198		
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	6	5	1				
67100100	MOBILIZATION	L SUM	1	0.9	0.1				
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	0.9	0.1				
70100460	TRAFFIC CONTROL AND PROTECTION, STANDARD 701306	L SUM	1	0.9	0.1				
70100500	TRAFFIC CONTROL AND PROTECTION, STANDARD 701326	L SUM	1	0.9	0.1				
70100600	TRAFFIC CONTROL AND PROTECTION, STANDARD 701336	L SUM	1	0.9	0.1				
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	15	14	1				
70300100	SHORT TERM PAVEMENT MARKING	FOOT	18,429	15,340	3,089				

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 USER NAME = johnsonv  
 PLOT SCALE = 100.0000 ' / IN.  
 PLOT DATE = 12/10/2009

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

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES**

SCALE: SHEET NO. 2 OF 3 SHEETS STA. TO STA.

F.A.P. RTE. 698 649	SECTION 123RS-4,1122,124RS-5,2RS-3,3RS-4	COUNTY MARSHALL PUTNAM	TOTAL SHEETS 40	SHEET NO. 5
CONTRACT NO. 68915				
ILLINOIS FED. AID PROJECT				

**SUMMARY OF QUANTITIES**

CODE NO.	PAY ITEM	UNIT	TOTAL QUANTITY	1000 ESP MARSHALL CO. 100% FED.	1000 ESP PUTNAM CO. 100% FED.	1000-2A HSIP MARSHALL CO. 90% FED. 10% STATE	1000-2A HSIP PUTNAM CO. 90% FED. 10% STATE	1000 MARSHALL CO. 100%- STATE	1000 PUTNAM CO. 100%- STATE
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	150,936	143,925	7,011				
70300240	TEMPORARY PAVEMENT MARKING - LINE 6"	FOOT	70,657	59,091	11,566				
70300250	TEMPORARY PAVEMENT MARKING - LINE 8"	FOOT	964		964				
70300260	TEMPORARY PAVEMENT MARKING - LINE 12"	FOOT	793	40	753				
70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	184	64	120				
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	3,132	2,617	515				
78005110	EPOXY PAVEMENT MARKING - LINE 4"	FOOT	150,936	143,925	7,011				
78005130	EPOXY PAVEMENT MARKING - LINE 6"	FOOT	70,657	59,091	11,566				
78005140	EPOXY PAVEMENT MARKING - LINE 8"	FOOT	964		964				
78005150	EPOXY PAVEMENT MARKING - LINE 12"	FOOT	793	40	753				
78005180	EPOXY PAVEMENT MARKING - LINE 24"	FOOT	184	64	120				
78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	1,105	1,026	79				
78200410	GUARDRAIL MARKERS, TYPE A	EACH	4	4					
78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	55	45	10				
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	1,037	959	78				
X0301512	GUARDRAIL AGGREGATE EROSION CONTROL	TON	310	260	50				
X0322118	REMOVE CONCRETE FLARED END SECTIONS	EACH	2	2					
X0322729	MATERIAL TRANSFER DEVICE	TON	19,844	18,243	1,601				
X2503100	MOWING	UNIT	1,622					1,506	116
X7015005	CHANGEABLE MESSAGE SIGN	CAL DA	28	21	7				
XX007171	AGGREGATE SHOULDER REMOVAL	CU YD	9,753			9,024	729		
Z0055300	RUMBLE STRIP	EACH	10	6	4				

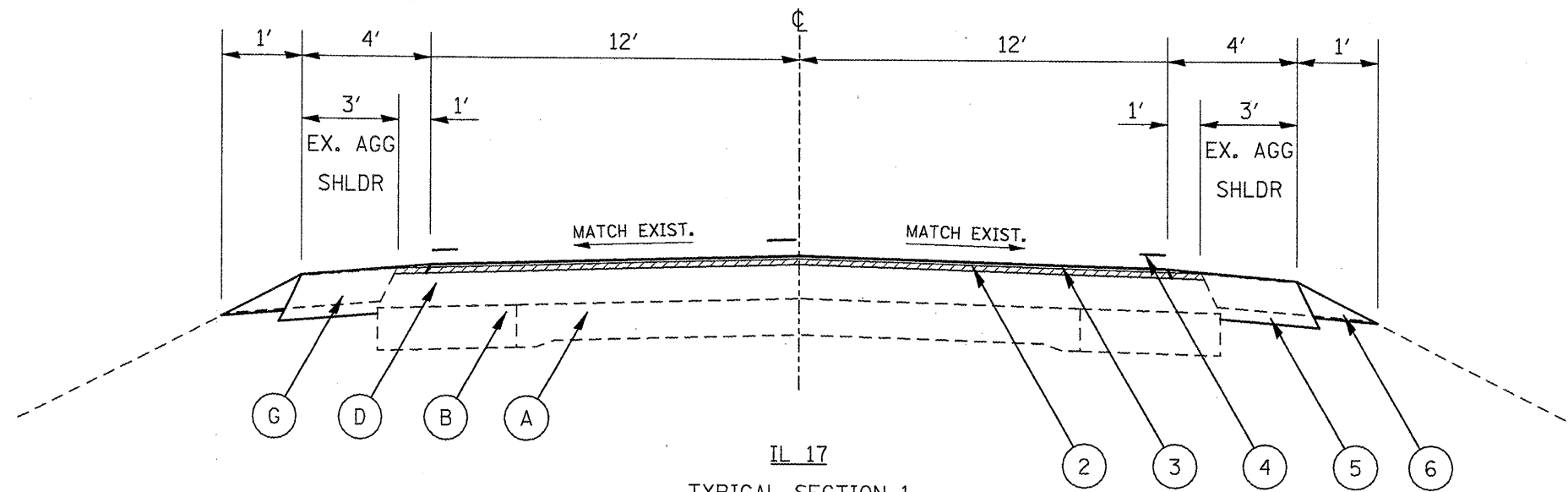
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PLOT SCALE = 1/8" = 100.0000' / IN.		CHECKED -	REVISED -
PLOT DATE = 12/10/2009		DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES**

SCALE: SHEET NO. 3 OF 3 SHEETS STA. TO STA.

F.A.P. RTE. 698 649	SECTION 123RS-4, (122,124)RS-5, 2RS-3, 3RS-4	COUNTY MARSHALL PUTNAM	TOTAL SHEETS 40	SHEET NO. 6
CONTRACT NO. 68915				
ILLINOIS FED. AID PROJECT				



IL 17  
TYPICAL SECTION 1

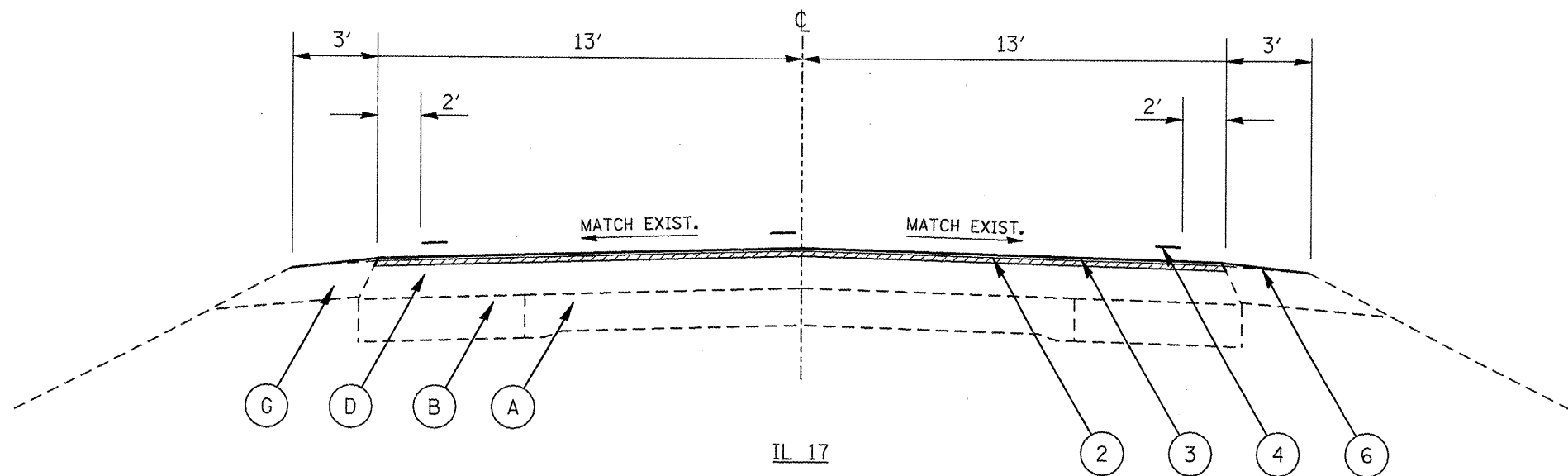
STA. 65+59.00 TO STA. 77+14.37 (BK)  
 STA. 18+12.54 (AH) TO STA. 33+77.17  
 STA. 115+60.00 TO STA. 117+95.89  
 STA. 121+33.39 TO STA. 328+78.39  
 STA. 331+05.89 TO STA. 380+26.89  
 STA. 407+13.89 TO STA. 460+11.00

LEGEND - PROPOSED

- ① HMA SURFACE REMOVAL, 1 1/2"
- ② HMA SURFACE REMOVAL, 3/4"
- ③ HMA SURFACE COURSE, 1 1/2"
- ④ EPOXY PAVEMENT MARKING
- ⑤ HMA SHOULDER, 8"
- ⑥ AGGREGATE SHOULDERS, TYPE B
- ⑦ GUARDRAIL AGGREGATE EROSION CONTROL

LEGEND - EXISTING

- Ⓐ PCC PAVEMENT (9-6-9)
- Ⓑ HMA WIDENING, 10"
- Ⓒ HMA WIDENING, 9"
- Ⓓ HMA OVERLAY, 7"
- Ⓔ HMA OVERLAY, 9"
- Ⓕ FULL-DEPTH HMA PVMT, 14"
- Ⓖ AGGREGATE SHOULDER
- Ⓗ HMA SHOULDER, 8"
- Ⓘ STEEL PLATE BEAM GUARDRAIL
- Ⓝ GUARDRAIL AGG. EROSION CONTROL



IL 17  
TYPICAL SECTION 2

STA. 33+77.17 TO STA. 66+16.29  
 STA. 78+91.09 TO STA. 95+80.29  
 STA. 101+42.79 TO STA. 115+60.00

FILE NAME = 68915 - Phase II.dgn	USER NAME = johnsonv	DESIGNED -	REVISED -
		DRAWN -	REVISED -
		CHECKED -	REVISED -
		DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

IL 17 TYPICAL SECTIONS

NOT TO SCALE SHEET NO. 1 OF 2 SHEETS STA. TO STA.

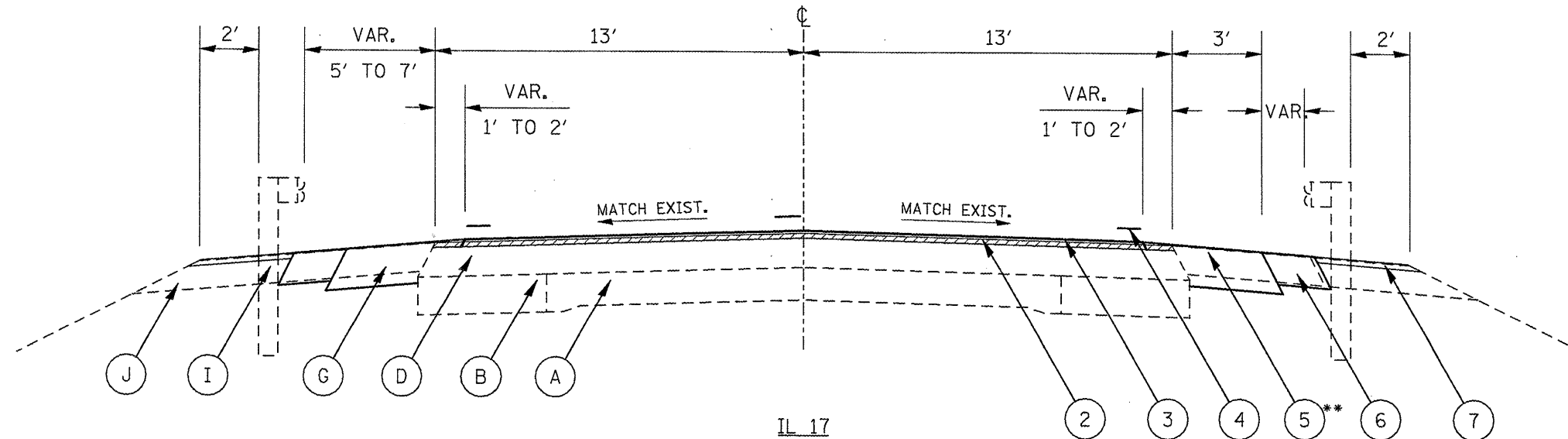
F.A.P. RTE. 689 649	SECTION 123RS-4,122,124RS-5,2RS-3,3RS-4	COUNTY MARSHALL PUTNAM	TOTAL SHEETS 40	SHEET NO. 7
CONTRACT NO. 68915				
ILLINOIS FED. AID PROJECT				

LEGEND - PROPOSED

- ① HMA SURFACE REMOVAL, 1 1/2"
- ② HMA SURFACE REMOVAL, 3/4"
- ③ HMA SURFACE COURSE, 1 1/2"
- ④ EPOXY PAVEMENT MARKING
- ⑤ HMA SHOULDER, 8"
- ⑥ AGGREGATE SHOULDERS, TYPE B
- ⑦ GUARDRAIL AGGREGATE EROSION CONTROL

LEGEND - EXISTING

- Ⓐ PCC PAVEMENT (9-6-9)
- Ⓑ HMA WIDENING, 10"
- Ⓒ HMA WIDENING, 9"
- Ⓓ HMA OVERLAY, 7"
- Ⓔ HMA OVERLAY, 9"
- Ⓕ FULL-DEPTH HMA PVMT, 14"
- Ⓖ AGGREGATE SHOULDER
- Ⓗ HMA SHOULDER, 8"
- Ⓘ STEEL PLATE BEAM GUARDRAIL
- ⓵ GUARDRAIL AGG. EROSION CONTROL



IL 17

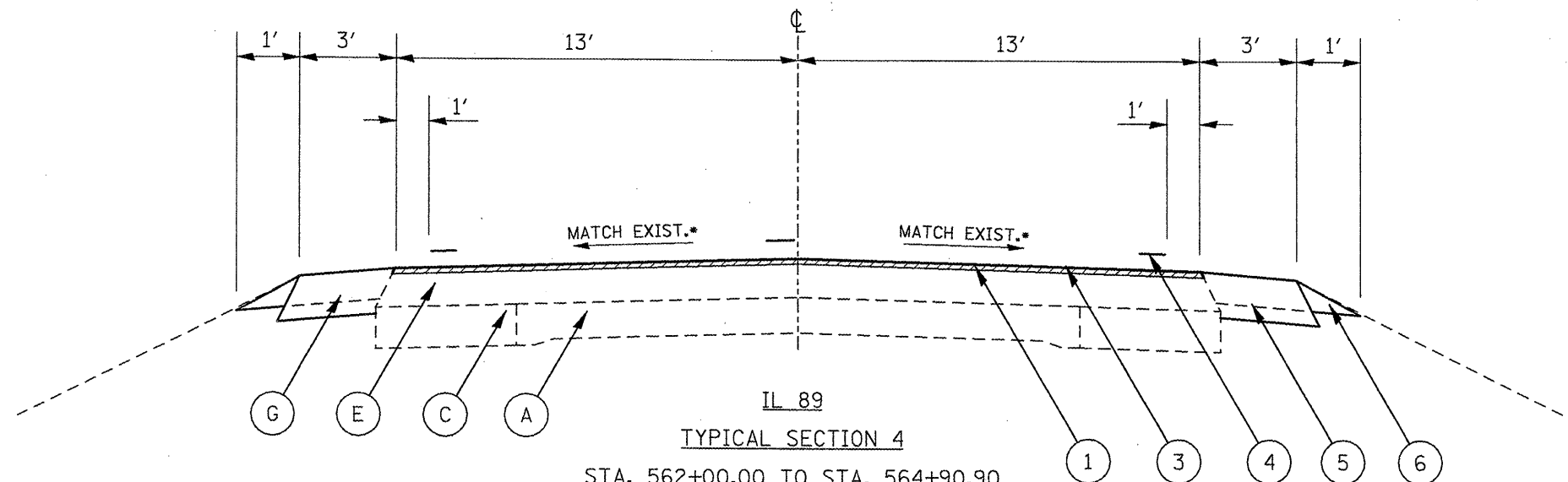
TYPICAL SECTION 3

STA. 66+16.29 TO STA. 78+91.09  
 STA. 95+80.29 TO STA. 101+42.79  
 STA. 117+95.89 TO STA. 121+33.39  
 STA. 328+78.39 TO STA. 331+05.89  
 STA. 380+26.89 TO STA. 407+13.89

\*\* THE PROPOSED 3' WIDE HMA SHOULDER IS TO BE CONSTRUCTED ONLY AT LOCATIONS WHERE 1' HMA SHOULDER EXISTS.

FILE NAME = 68915 - Phase 11.dgn	USER NAME = johnsontv	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>IL 17 TYPICAL SECTIONS</b>			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 100.0000' / IN.	DRAWN -	REVISED -					698	123RS-4,122,124RS-5,2RS-3,3RS-4	MARSHALL PUTNAM	40	8
	PLOT DATE = 12/5/2009	CHECKED -	REVISED -					CONTRACT NO. 68915				
				NOT TO SCALE    SHEET NO. 2 OF 2 SHEETS    STA. TO STA.			ILLINOIS FED. AID PROJECT					





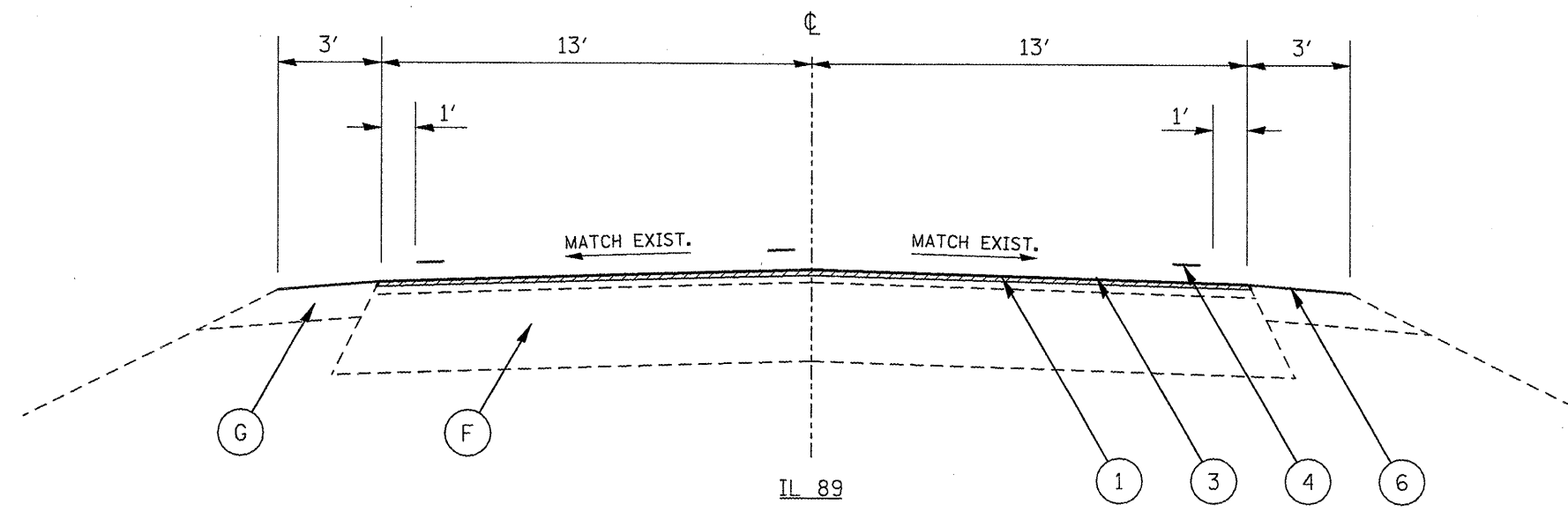
IL 89  
**TYPICAL SECTION 4**  
 STA. 562+00.00 TO STA. 564+90.90  
 STA. 566+74.90 TO STA. 667+12.96\*  
 STA. 669+97.10 TO STA. 760+98.26\*  
 STA. 778+93.00 TO STA. 791+89.00\*  
 STA. 799+27.19 TO STA. 910+00.00 BK\*  
 STA. 39+80.00 (AH) TO STA. 45+08.40  
 SUPERELEVATED SECTIONS:  
 STA. 791+89.00 TO STA. 794+67.85 AND  
 STA. 795+66.28 TO STA. 799+27.19  
 S.E. = 1.5% AND VAR.

**LEGEND - PROPOSED**

- ① HMA SURFACE REMOVAL, 1 1/2"
- ② HMA SURFACE REMOVAL, 3/4"
- ③ HMA SURFACE COURSE, 1 1/2"
- ④ EPOXY PAVEMENT MARKING
- ⑤ HMA SHOULDER, 8"
- ⑥ AGGREGATE SHOULDERS, TYPE B
- ⑦ GUARDRAIL AGGREGATE EROSION CONTROL

**LEGEND - EXISTING**

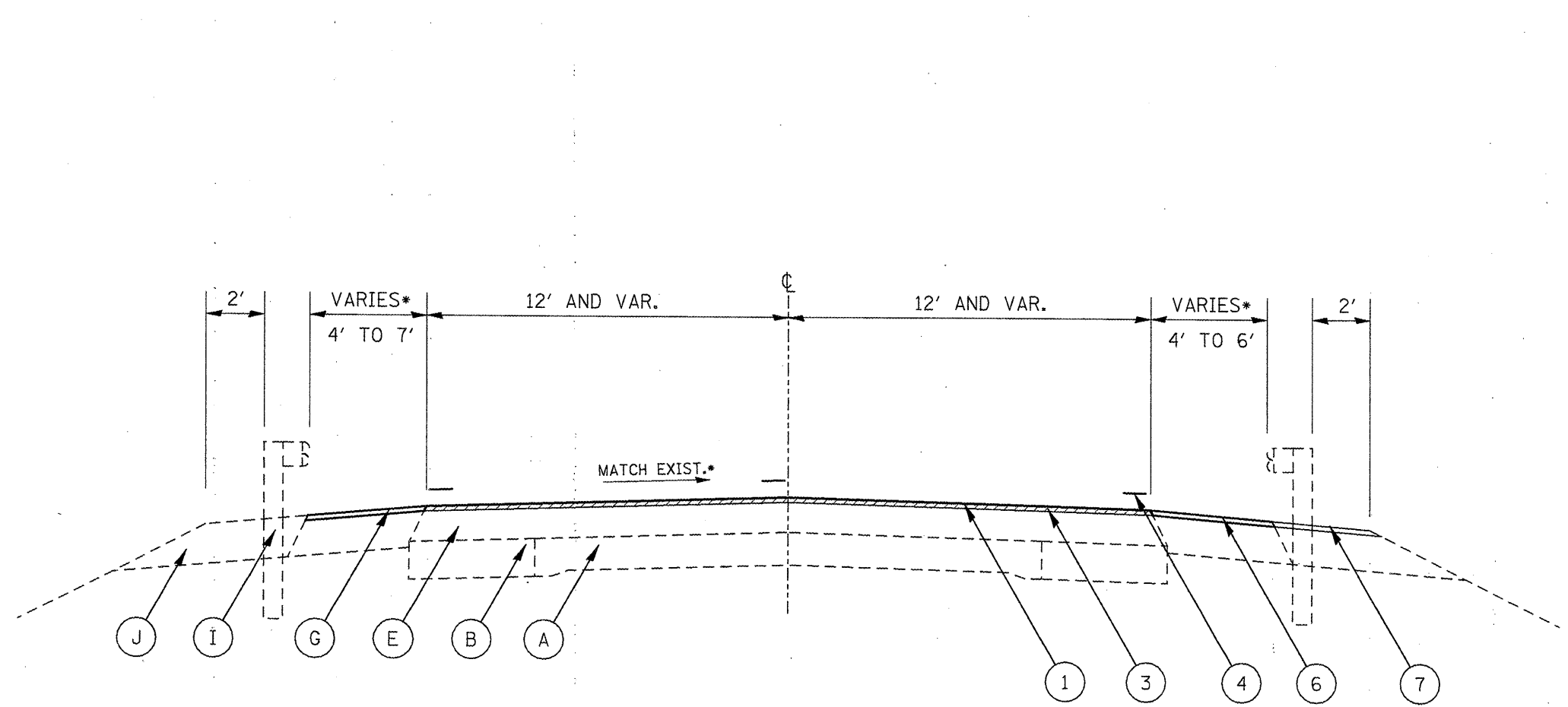
- Ⓐ PCC PAVEMENT (9-6-9)
- Ⓑ HMA WIDENING, 10"
- Ⓒ HMA WIDENING, 9"
- Ⓓ HMA OVERLAY, 7"
- Ⓔ HMA OVERLAY, 9"
- Ⓕ FULL-DEPTH HMA PVMT, 14"
- Ⓖ AGGREGATE SHOULDER
- Ⓗ HMA SHOULDER, 8"
- Ⓘ STEEL PLATE BEAM GUARDRAIL
- ⓵ GUARDRAIL AGG. EROSION CONTROL



IL 89  
**TYPICAL SECTION 5**  
 STA. 760+98.26 TO STA. 778+93.00  
 STA. 794+67.85 TO STA. 795+66.28

\* GUARDRAIL EXISTS. REFER TO TYPICAL SECTION 6 FOR DETAIL.

FILE NAME = 68915 - Phase II.dgn	USER NAME = johnsonv	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>IL 89 TYPICAL SECTIONS</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
		DRAWN -	REVISED -			696	123RS-4,1122,124RS-5,2RS-3,3RS-4	MARSHALL PUTNAM	40	9	
		CHECKED -	REVISED -			CONTRACT NO. 68915					
		DATE -	REVISED -			ILLINOIS FED. AID PROJECT					
				NOT TO SCALE	SHEET NO. 1 OF 2 SHEETS	STA. TO STA.					



**LEGEND - PROPOSED**

- ① HMA SURFACE REMOVAL, 1 1/2"
- ② HMA SURFACE REMOVAL, 3/4"
- ③ HMA SURFACE COURSE, 1 1/2"
- ④ EPOXY PAVEMENT MARKING
- ⑤ HMA SHOULDER, 8"
- ⑥ AGGREGATE SHOULDERS, TYPE B
- ⑦ GUARDRAIL AGGREGATE EROSION CONTROL

**LEGEND - EXISTING**

- Ⓐ PCC PAVEMENT (9-6-9)
- Ⓑ HMA WIDENING, 10"
- Ⓒ HMA WIDENING, 9"
- Ⓓ HMA OVERLAY, 7"
- Ⓔ HMA OVERLAY, 9"
- Ⓕ FULL-DEPTH HMA PVMT, 14"
- Ⓖ AGGREGATE SHOULDER
- Ⓗ HMA SHOULDER, 8"
- Ⓘ STEEL PLATE BEAM GUARDRAIL
- Ⓙ GUARDRAIL AGG. EROSION CONTROL

IL 89  
 TYPICAL SECTION 6  
 SEE NOTE SHEET 4

FILE NAME = 68915 - Phase II.dgn	USER NAME = johnsonv	DESIGNED -	REVISED -
		DRAWN -	REVISED -
		CHECKED -	REVISED -
		DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**IL 89 TYPICAL SECTIONS**

NOT TO SCALE    SHEET NO. 1 OF 2 SHEETS    STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
689 649	123RS-4-1122,124RS-5,2RS-3,3RS-4	MARSHALL PUTNAM	40	10
CONTRACT NO. 68915			ILLINOIS FED. AID PROJECT	



**EPOXY PAVEMENT MARKING SCHEDULE**

LOCATION	LINE 4"						LINE 6"		LINE 8"	LINE 12"		LINE 24"	
	SOLID - WHITE		SOLID - YELLOW		SKIP DASH - YELLOW		WHITE		WHITE	WHITE	YELLOW	FT	
	EB/NB	WB/SB	EB/NB	WB/SB	EB/NB	WB/SB	EB/NB	WB/SB					
	FT		FT		FT		FT		FT				
<b>IL 17</b>													
<b>MARSHALL COUNTY</b>													
STA. 65+59	TO STA. 75+65	1,006	1,006										
STA. 75+65	TO STA. 77+14.37 BK	149	149	149			37						
STA. 18+12.54 AH	TO STA. 32+62	3,262	3,262	3,262			816						
STA. 32+62	TO STA. 48+62	1,600	1,600	1,600	1,600								
STA. 48+62	TO STA. 64+56	1,594	1,594		1,594	399							
STA. 64+56	TO STA. 454+05.39	38,949	38,949				9,737						
STA. 454+05.39	TO STA. 460+11	606	606	931	931						40	30	
<b>IL 89</b>													
<b>PUTNAM COUNTY</b>													
STA. 562+00	TO STA. 570+50			850		212	850	850	964	753		120	
STA. 570+50	TO STA. 572+08					40	158	158					
STA. 572+08	TO STA. 585+28			1,320	330		1,320	1,320					
STA. 585+28	TO STA. 596+90			1,162		290	1,162	1,162					
STA. 596+90	TO STA. 603+76					172	686	686					
STA. 603+76	TO STA. 611+15			739	185		739	739					
STA. 611+15	TO STA. 614+32					79	317	317					
STA. 614+32	TO STA. 619+83			551		138	551	551					
<b>MARSHALL COUNTY</b>													
STA. 619+83	TO STA. 622+24			241		60	241	241					
STA. 622+24	TO STA. 627+52					132	528	528					
STA. 627+52	TO STA. 640+72			1,320	330		1,320	1,320					
STA. 640+72	TO STA. 649+17			845	845		845	845					
STA. 649+17	TO STA. 661+84			1,267		317	1,267	1,267					
STA. 661+84	TO STA. 682+96					528	2,112	2,112					
STA. 682+96	TO STA. 693+52			1,056	264		1,056	1,056					
STA. 693+52	TO STA. 710+42			1,690	1,690		1,690	1,690					
STA. 710+42	TO STA. 719+92			950		238	950	950					
STA. 719+92	TO STA. 727+84			792	198		792	792					
STA. 727+84	TO STA. 751+60			2,376	2,376		2,376	2,376					
STA. 751+60	TO STA. 767+44			1,584		119	1,584	1,584					
STA. 767+44	TO STA. 788+03					515	2,059	2,059					
STA. 788+03	TO STA. 793+84			581	145		581	581					
STA. 793+84	TO STA. 799+12			528	528		528	528					
STA. 799+12	TO STA. 804+40			528		132	528	528					
STA. 804+40	TO STA. 826+58					554	2,218	2,218					
STA. 826+58	TO STA. 833+44			686	172		686	686					
STA. 833+44	TO STA. 836+08					66	264	264					
STA. 836+08	TO STA. 846+64			1,056		264	1,056	1,056					
STA. 846+64	TO STA. 891+52					1,122	4,488	4,488					
STA. 891+52	TO STA. 899+44			792	198		792	792					
STA. 899+44	TO STA. 910+00 BK			1,056		264	1,056	1,056					
STA. 39+80 AH	TO STA. 45+08.40					132	528	528				34	
<b>IL 18</b>													
<b>PUTNAM COUNTY</b>													
STA. 425+95.50	TO STA. 430+15.00	420	420			105							
<b>SUB-TOTAL</b>		95,172		37,475		18,289		70,657		964		184	
<b>TOTAL</b>				150,936				70,657		964		184	

FILE NAME = 68915 - Phase II.dgn  
 USER NAME = johnsonv  
 PLOT SCALE = 1/8" = 100.0000' / IN.  
 PLOT DATE = 12/5/2009

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

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**SCHEDULES OF QUANTITIES**

SCALE: SHEET NO. 2 OF 8 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
698 649	123RS-4, 122, 124RS-5, 2RS-3, 3RS-4	MARSHALL PUTNAM	40	12
CONTRACT NO. 68915			ILLINOIS FED. AID PROJECT	

**TEMPORARY PAVEMENT MARKING SCHEDULE**

LOCATION	LINE 4"						LINE 6"		LINE 8"	LINE 12"		LINE 24"			
	SOLID - WHITE		SOLID - YELLOW		SKIP DASH - YELLOW		WHITE		WHITE	WHITE	YELLOW	FT			
	EB/NB	WB/SB	EB/NB	WB/SB	EB/NB	WB/SB	EB/NB	WB/SB							
	FT		FT		FT				FT						
<b>IL 17</b>															
<b>MARSHALL COUNTY</b>															
STA. 65+59	TO STA. 75+65	1,006	1,006												
STA. 75+65	TO STA. 77+14.37 BK	149	149	149			37								
STA. 18+12.54 AH	TO STA. 32+62	3,262	3,262	3,262			816								
STA. 32+62	TO STA. 48+62	1,600	1,600	1,600	1,600										
STA. 48+62	TO STA. 64+56	1,594	1,594		1,594	399									
STA. 64+56	TO STA. 454+05.39	38,949	38,949				9,737								
STA. 454+05.39	TO STA. 460+11	606	606	931	931					40	30				
<b>IL 89</b>															
<b>PUTNAM COUNTY</b>															
STA. 562+00	TO STA. 570+50			850			212	850	850	964	753	120			
STA. 570+50	TO STA. 572+08					40		158	158						
STA. 572+08	TO STA. 585+28				1,320	330		1,320	1,320						
STA. 585+28	TO STA. 596+90			1,162			290	1,162	1,162						
STA. 596+90	TO STA. 603+76					172		686	686						
STA. 603+76	TO STA. 611+15				739	185		739	739						
STA. 611+15	TO STA. 614+32					79		317	317						
STA. 614+32	TO STA. 619+83			551			138	551	551						
<b>MARSHALL COUNTY</b>															
STA. 619+83	TO STA. 622+24			241			60	241	241						
STA. 622+24	TO STA. 627+52						132	528	528						
STA. 627+52	TO STA. 640+72				1,320	330		1,320	1,320						
STA. 640+72	TO STA. 649+17			845	845			845	845						
STA. 649+17	TO STA. 661+84			1,267			317	1,267	1,267						
STA. 661+84	TO STA. 682+96						528	2,112	2,112						
STA. 682+96	TO STA. 693+52				1,056	264		1,056	1,056						
STA. 693+52	TO STA. 710+42			1,690	1,690			1,690	1,690						
STA. 710+42	TO STA. 719+92			950			238	950	950						
STA. 719+92	TO STA. 727+84				792	198		792	792						
STA. 727+84	TO STA. 751+60			2,376	2,376			2,376	2,376						
STA. 751+60	TO STA. 767+44			1,584			119	1,584	1,584						
STA. 767+44	TO STA. 788+03						515	2,059	2,059						
STA. 788+03	TO STA. 793+84				581	145		581	581						
STA. 793+84	TO STA. 799+12			528	528			528	528						
STA. 799+12	TO STA. 804+40			528			132	528	528						
STA. 804+40	TO STA. 826+58						554	2,218	2,218						
STA. 826+58	TO STA. 833+44				686	172		686	686						
STA. 833+44	TO STA. 836+08						66	264	264						
STA. 836+08	TO STA. 846+64			1,056			264	1,056	1,056						
STA. 846+64	TO STA. 891+52						1,122	4,488	4,488						
STA. 891+52	TO STA. 899+44				792	198		792	792						
STA. 899+44	TO STA. 910+00 BK			1,056			264	1,056	1,056						
STA. 39+80 AH	TO STA. 45+08.40						132	528	528			34			
<b>IL 18</b>															
<b>PUTNAM COUNTY</b>															
STA. 425+95.50	TO STA. 430+15.00	420	420				105								
<b>SUB-TOTAL</b>		95,172		37,475		18,289		70,657		964		793		184	
<b>TOTAL</b>		95,172		37,475		18,289		70,657		964		793		184	

FILE NAME = 68915 - Phase 11.dgn  
 USER NAME = johnsontv  
 PLOT SCALE = 100.0000 / IN.  
 PLOT DATE = 12/5/2009

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

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**SCHEDULES OF QUANTITIES**

SCALE: SHEET NO. 3 OF 8 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
698 649	123RS-4(122,124RS-5,2RS-3,3RS-4	MARSHALL PUTNAM	40	13
CONTRACT NO. 68915				
ILLINOIS FED. AID PROJECT				

RAISED REFLECTIVE PAVEMENT MARKER			
LOCATION	TWO-WAY		ONE-WAY
	80' OC	40' OC	40' OC
	EACH	EACH	EACH
IL 17			
MARSHALL COUNTY			
STA. 65+59.00 TO STA. 77+14.37 BK	15		
STA. 18+12.54 AH TO STA. 453+65.89	544		
STA. 453+65.89 TO STA. 454+05.39		6	
STA. 454+05.39 TO STA. 456+34.58			13
STA. 457+28.50 TO STA. 459+64.79			14
STA. 459+64.79 TO STA. 460+11.00		6	
IL 89			
PUTNAM COUNTY			
STA. 562+00.00 TO STA. 619+83.07	73		
MARSHALL COUNTY			
STA. 619+83.07 TO STA. 640+72.00	26		
STA. 640+72.00 TO STA. 649+17.00		21	
STA. 649+17.00 TO STA. 751+60.00	128		
STA. 751+60.00 TO STA. 767+44.00		40	
STA. 767+44.00 TO STA. 793+84.00	33		
STA. 793+84.00 TO STA. 799+12.00		13	
STA. 799+12.00 TO STA. 854+00.00	69		
STA. 854+00.00 TO STA. 870+00.00		40	
STA. 870+00.00 TO STA. 910+00.00 BK	50		
STA. 39+80.00 AH TO STA. 45+08.40	7		
IL 18			
PUTNAM COUNTY			
STA. 425+95.50 TO STA. 430+15.00	6		
SUB-TOTAL			
	952	126	27
TOTAL			
	1,105		

SHOULDER RUMBLE STRIP			
LOCATION	FT		
	LT.	RT.	
IL 17			
MARSHALL COUNTY			
STA. 65+59.00 TO STA. 77+14.37 BK	1,155.37	1,155.37	
STA. 18+12.54 AH TO STA. 33+77.17	1,564.63	1,564.63	
STA. 115+60.00 TO STA. 383+09.95	26,749.95	26,749.95	
STA. 383+39.50 TO STA. 456+09.48	7,269.98	7,269.98	
STA. 457+42.08 TO STA. 460+11.00	268.92	268.92	
IL 89			
PUTNAM COUNTY			
STA. 562+00.00 TO STA. 564+90.90	290.90	290.90	
STA. 566+74.90 TO STA. 619+83.07	5,308.17	5,308.17	
MARSHALL COUNTY			
STA. 619+83.07 TO STA. 667+12.96	4,729.89	4,729.89	
STA. 669+97.10 TO STA. 870+00.00	20,002.90	20,002.90	
STA. 891+52.00 TO STA. 910+00.00 BK	1,848.00	1,848.00	
STA. 39+80.00 AH TO STA. 42+70.19	290.19	290.19	
SUB-TOTAL			
	69,478.90	69,478.90	
TOTAL			
	138,958		

WORK ZONE PAVEMENT MARKING REMOVAL	
LOCATION	SQ FT
IL 17	
MARSHALL COUNTY	1,632
IL 89	
PUTNAM COUNTY	433
MARSHALL COUNTY	985
IL 18	
PUTNAM COUNTY	82
TOTAL	
	3,132

RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	
LOCATION	EACH
MARSHALL COUNTY	959
PUTNAM COUNTY	78
TOTAL	
	1,037

SHORT-TERM PAVEMENT MARKING				
LOCATION	LENGTH		NO. OF APPLICATIONS	TOTAL
	YELLOW	WHITE		
	FT			
IL 17				
MARSHALL COUNTY	4,535	180	2	9,431
IL 89				
PUTNAM COUNTY	578	720	2	2,597
MARSHALL COUNTY	2,955		2	5,909
IL 18				
PUTNAM COUNTY	42	204	2	492
SUB-TOTAL				
	8,110	1,104		18,428
TOTAL				
	18,428			

FILE NAME = 68915 - Phase II.dgn

USER NAME = johnsonv

DESIGNED -

REVISED -

DRAWN -

REVISED -

PLOT SCALE = 100.0000 / IN.

CHECKED -

REVISED -

PLOT DATE = 12/5/2009

DATE -

REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SCHEDULES OF QUANTITIES

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
698 645	123RS-4,122,124RS-5,2RS-3,3RS-4	MARSHALL PUTNAM	40	14
CONTRACT NO. 68915				

SCALE: SHEET NO. 4 OF 8 SHEETS STA. TO STA.

ILLINOIS FED. AID PROJECT

**SCHEDULE OF GUARDRAIL QUANTITIES**

LOCATION	GUARDRAIL REMOVAL**	STEEL PLATE BEAM GUARDRAIL, TY A, 6' POSTS	TRAFFIC BARRIER TERMINAL REMOVAL, TY 1	TRAFFIC BARRIER TERMINAL TY 1, SPECIAL (TANGENT)	GUARDRAIL MARKERS, TYPE A	TERMINAL MARKER - DIRECT APPLIED	GUARDRAIL AGG. EROSION CONTROL	VERTICAL ADJUSTMENT OF GUARDRAIL
	FOOT	FOOT	EACH	EACH	EACH	EACH	TON	FT
<b>IL 17</b>								
<b>MARSHALL COUNTY</b>								
LT. STA. 66+16.29 TO STA. 75+78.79			2	2		2	10.13	
RT. STA. 66+16.29 TO STA. 75+78.79	50	50	2	2	2	2	15.20	
LT. STA. 76+28.59 TO STA. 78+91.09			2	2		2	10.13	
LT. STA. 95+80.29 TO STA. 101+42.79			2	2		2	10.13	
RT. STA. 95+80.29 TO STA. 101+42.79	37.5	37.5	2	2	1	2	13.93	
LT. STA. 117+95.89 TO STA. 121+33.39			2	2		2	10.13	
RT. STA. 117+95.89 TO STA. 120+33.39			2	2		2	10.13	
LT. STA. 329+18.39 TO STA. 331+05.89			2	2		2	10.13	
RT. STA. 328+78.39 TO STA. 330+65.89			1	1		1	5.07	
LT. STA. 380+26.89 TO STA. 382+01.89			2	2		2	10.13	
RT. STA. 380+38.89 TO STA. 407+13.89	37.5	37.5	2	2	1	2	13.93	
<b>IL 89</b>								
<b>PUTNAM COUNTY</b>								
LT. STA. 570+88.95 TO STA. 574+38.95			2	2		2	10.13	
LT. STA. 580+76.95 TO STA. 578+76.95			2	2		2	10.13	
RT. STA. 579+39.95 TO STA. 576+27.45			2	2		2	10.13	
LT. STA. 606+30.00 TO STA. 603+67.50			2	2		2	10.13	
RT. STA. 604+84.00 TO STA. 603+71.50			2	2		2	10.13	
<b>MARSHALL COUNTY</b>								
LT. STA. 627+12.00 TO STA. 623+62.00			2	2		2	10.13	
RT. STA. 626+44.00 TO STA. 630+94.00			2	2		2	10.13	
LT. STA. 637+92.00 TO STA. 641+17.00			2	2		2	10.13	
RT. STA. 638+63.00 TO STA. 641+13.00			2	2		2	16.47	62.50
LT. STA. 666+62.96 TO STA. 670+97.10			2	2		2	10.13	
RT. STA. 666+62.96 TO STA. 670+97.10			2	2		2	10.13	
LT. STA. 703+92.00 TO STA. 699+04.50			2	2		2	10.13	
RT. STA. 703+04.00 TO STA. 698+04.00			2	2		2	10.13	
LT. STA. 753+43.00 TO STA. 748+30.50								
RT. STA. 754+20.00 TO STA. 749+07.50								
LT. STA. 782+90.00 TO STA. 774+52.50			2	2		2	10.13	
RT. STA. 783+36.00 TO STA. 774+86.00			2	2		2	22.80	125.00
RT. STA. 844+82.00 TO STA. 840+94.50			2	2		2	10.13	
RT. STA. 854+80.00 TO STA. 852+67.50			2	2		2	10.13	
<b>SUB-TOTAL:</b>	<b>125.0</b>	<b>125.0</b>	<b>55</b>	<b>55</b>	<b>4</b>	<b>55</b>	<b>310.33</b>	<b>187.5</b>
<b>TOTAL:</b>	<b>125</b>	<b>125</b>	<b>55</b>	<b>55</b>	<b>4</b>	<b>55</b>	<b>310</b>	<b>188</b>

NOTE: STATIONS ARE APPROXIMATE  
 \*\* REMOVAL OF DAMAGED GUARDRAIL

**SCHEDULE OF SIDE ROADS AND ENTRANCES**

LOCATION	NUMBER OF ENTRANCES		AREA SQ YD	POLYMERIZED BIT. MATERIALS (PRIME COAT)	AGGREGATE PRIME COAT	HMA SURFACE REMOVAL - BUTT JOINT	TEMPORARY RAMP	INCIDENTAL HMA SURFACING	HMA SURFACE REMOVAL, 3/4 IN	HMA SURFACE REMOVAL, 1 1/2 IN	AGGREGATE SURFACE CSE TYPE B
	AGG	BIT		TON	TON	SQ YD	SQ YD	TON	SQ YD	SQ YD	TON
<b>MARSHALL COUNTY</b>											
SIDE ROADS:											
HOPEWELL HILLS RD.			139.58	0.06	0.28	37.69	18.85	11.72	101.89		
1375 E			62	0.02	0.12	62.00	31.00				
1500 E			247.5	0.10	0.50	88.38	44.19	20.79	159.12		
1530 E			121.33	0.05	0.24	30.48	15.24	10.19	90.85		
1625 E			118.22	0.05	0.24	29.36	14.68	9.93	88.86		
TAX SCHOOL RD.			422.22	0.17	0.84	40.00	20.00	35.47	382.22		
1900 E			166.73	0.07	0.33	96.42	48.21	14.01	70.31		
CENTURY RD.			95	0.04	0.19	40.00	20.00	7.98	55.00		
SHAW RD.			66.67	0.03	0.13	35.21	17.61	5.60	31.46		
800 N			296.32	0.12	0.59	61.58	30.79	24.89		234.74	
WENONA RD.			148.16	0.06	0.30	30.79	15.40	12.45		117.37	
LAKE WILDWOOD DR.			148.16	0.06	0.30	30.79	15.40	12.45		117.37	
1010 N			148.16	0.06	0.30	30.79	15.40	12.45		117.37	
OLD STAGE COACH RD.			148.16	0.06	0.30	30.79	15.40	12.45		117.37	
MAGNOLIA RD.			148.16	0.06	0.30	30.79	15.40	12.45		117.37	
ENTRANCES	30	46	5.5	0.10	0.51			21.25	253		31.04
MAILBOX TURNOUTS	1	21	14.44	0.12	0.61			25.48	303.33		2.72
<b>PUTNAM COUNTY</b>											
SIDE ROADS:											
50 N			148.16	0.06	0.30	30.79	15.40	12.45		117.37	
MAGNOLIA DR.			148.16	0.06	0.30	30.79	15.40	12.45		117.37	
ENTRANCES	3	6	5.5	0.01	0.07			2.77		33.00	3.10
MAILBOX TURNOUTS		1	14.44	0.01	0.03			1.21		14.44	
SUBTOTAL											
TOTAL											

MOBILIZATION	
LOCATION	L SUM
JOBSITE	1
TOTAL	1

CONSTRUCTING TEST STRIP	
LOCATION	EACH
JOBSITE	1
TOTAL	1

MOWING	
LOCATION	UNIT
JOBSITE	1622
TOTAL	1,622

ENGINEER'S FIELD OFFICE, TYPE A	
LOCATION	CAL MO
JOB SITE	6
TOTAL	6

TRAFFIC CONTROL AND PROTECTION				
LOCATION	STD. 701201	STD. 701306	STD. 701326	STD. 701336
	L SUM	L SUM	L SUM	L SUM
JOBSITE	1	1	1	1
TOTAL	1	1	1	1

TRAFFIC CONTROL SURVEILLANCE	
LOCATION	CAL DA
JOBSITE	15
TOTAL	15

RUMBLE STRIP	
LOCATION	EACH
MARSHALL COUNTY	
IL 17 & IL 89 INTERSECTION	6
PUTNAM COUNTY	
IL 89 AND IL 18 INTERSECTION	4
TOTAL	10



CLASS D PATCH - 16 IN								
PATCHING UNIT	LOCATION		TYPE II		TYPE III		TYPE IV	
			SQ YDS.		SQ YDS.		SQ YDS.	
			EB	WB	EB	WB	EB	WB
IL 17								
MARSHALL COUNTY								
1	STA. 65+59.00	TO 1530 E	392.88	436.22			433.33	
2	1530 E	TO 1625 E	121.33	135.78				80.00
3	1625 E	TO TAX SCHOOL RD.	72.22	130.00				
4	TAX SCHOOL RD.	TO 1900 E	118.45	132.89	52.00	69.33		
5	1900 E	TO CENTURY RD.	34.67	130.00	17.33	17.33		
6	CENTURY RD.	TO STA. 460+11.00	210.88	303.33	109.78	109.78		20.00
SUB-TOTAL			950.43	1,268.22	179.11	196.44	433.33	100.00
GRAND-TOTAL			2219		376		533	

CLASS D PATCH - 18 IN								
PATCHING UNIT	LOCATION		TYPE II		TYPE III		TYPE IV	
			SQ YDS.		SQ YDS.		SQ YDS.	
			NB	SB	NB	SB	NB	SB
IL 89								
MARSHALL COUNTY								
7	STA. 45+08.40	TO 800 N	161.78	141.56			35.56	
8	800 N	TO WENONA RD.	98.23	78.00	17.33	17.33		
9	WENONA RD.	TO 1010 N	95.33	95.33			53.33	26.67
10	1010 N	TO MAGNOLIA RD.	106.89	118.44		17.33		
11	MAGNOLIA RD.	TO COUNTY LINE	37.56	37.56				
PUTNAM COUNTY								
12	COUNTY LINE	TO STA. 562+00.00	75.11	57.78				
SUB-TOTAL			574.90	528.67	17.33	34.66	88.89	26.67
GRAND-TOTAL			1,104		52		116	

CHANGEABLE MESSAGE SIGN		
LOCATION	NO. SIGNS	CAL DA
MARSHALL COUNTY	3	21
PUTNAM COUNTY	1	7
<b>TOTAL</b>		<b>28</b>

MATERIAL TRANSFER DEVICE	
LOCATION	TON
<b>HMA SURFACE COURSE ONLY</b>	
MARSHALL COUNTY	
IL 17	11,085.29
IL 89	7,158.02
PUTNAM COUNTY	
IL 89	1,386.80
IL 18	213.82
<b>TOTAL</b>	<b>19,844</b>

CULVERT SCHEDULE										
LOCATION	TYPE/SIZE	REINFORCEMENT BARS	EXPANSION BOLTS 3/4 IN X 15 INCH	CONCRETE COLLAR	REMOVE CONCRETE FLARED END SECTIONS	PRC FLARED END SECTIONS ARCH, EQRS 24"	GRATING FOR CONCRETE FLARED END SECTION EQRS 24"	GRATING FOR CONCRETE FLARED END SECTION EQRS 36"	DELINEATORS	PERIMETER EROSION BARRIER
		POUND	EACH	CU YD	EACH	EACH	EACH	EACH	EACH	FOOT
IL 17										
<b>MARSHALL COUNTY</b>										
LT. STA. 33+27.70	3 x 2 BOX							1		
RT. STA. 33+27.71								1		
LT. STA. 145+18.60	3 x 2 BOX							1	1	
RT. STA. 145+18.61								1	1	
LT. STA. 148+20.00	3 x 2 BOX							1		
RT. STA. 148+20.01								1		
LT. STA. 173+39.49	2 x 1.5 BOX						1			
RT. STA. 173+39.50								1		
LT. STA. 202+52.31	2 x 1.5 BOX						1			
RT. STA. 202+52.32								1		
LT. STA. 234+59.30	3 x 2 BOX							1		
RT. STA. 234+59.31								1	1	
LT. STA. 320+00.00	3 x 2 BOX							1		
RT. STA. 320+00.01								1	1	
LT. STA. 352+21.90	2 x 1.5 BOX						1			
RT. STA. 352+21.91			20	8	0.27	1	1	1	1	30
LT. STA. 373+74.59	2 x 1.5 BOX						1			
RT. STA. 373+74.60								1		
LT. STA. 442+09.69	2 x 1.5 BOX						1			
RT. STA. 442+09.70			20	8	0.27	1	1	1		30
<b>SUBTOTAL</b>		40	16	0.54	2	2	10	10	5	60
<b>TOTAL</b>		40	16	0.60	2	2	10	10	5	60

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

HMA & AGGREGATE CONVERSION FACTORS		
SURFACE TYPE	LB	TON
	SQ YD IN	CU YD
HMA COURSES	112	2.016
COARSE AGGREGATE	114	2.05
FINE AGGREGATE		1.5

FILE NAME = 68915 - Phase II.dgn	USER NAME = johnstev	DESIGNED -	REVISED -
		DRAWN -	REVISED -
		CHECKED -	REVISED -
		DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SCHEDULES OF QUANTITIES

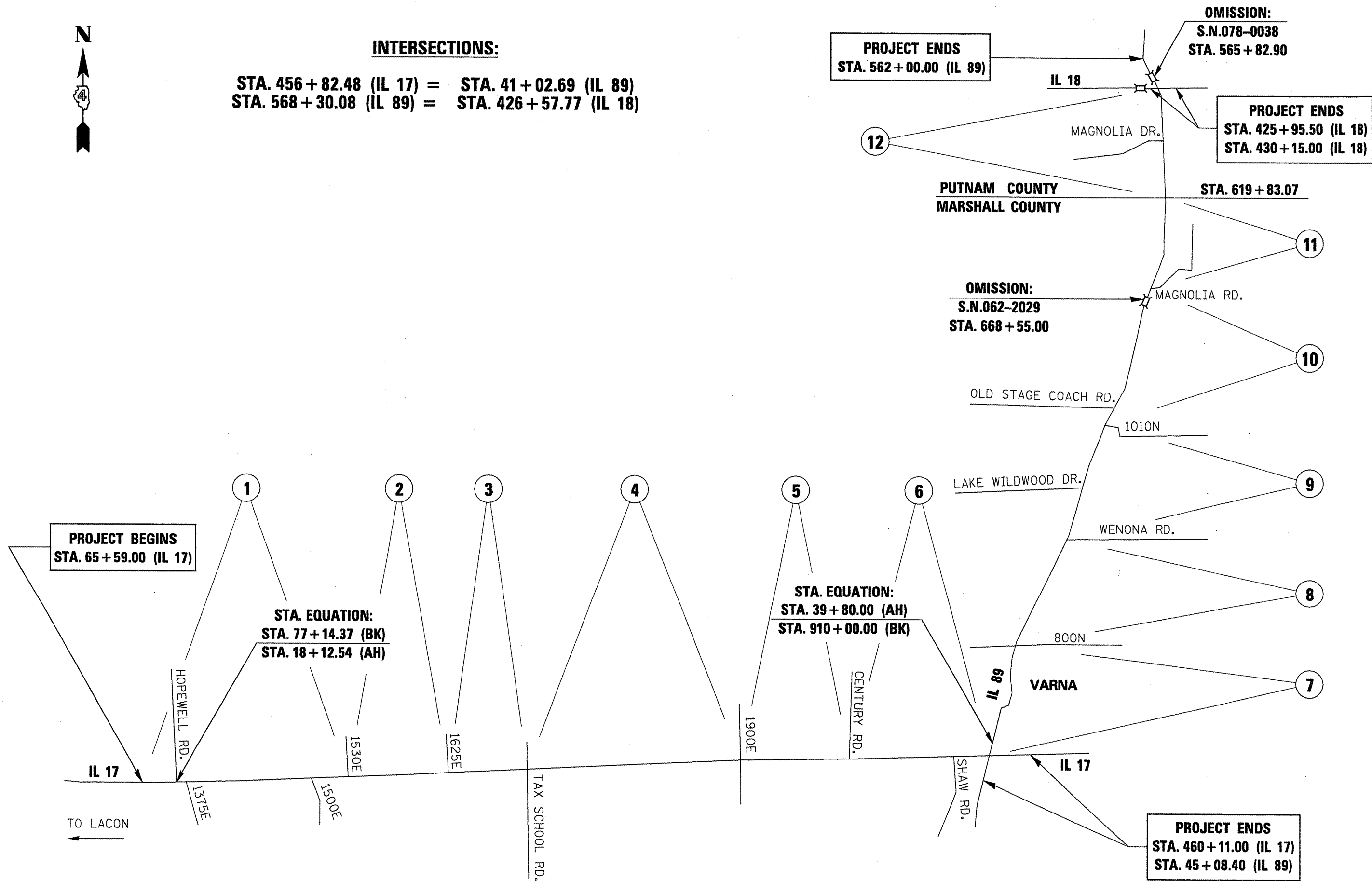
SCALE: SHEET NO. 8 OF 8 SHEETS STA. TO STA.

F.A.P. RTE. 688 649	SECTION 123RS-4,122,124RS-5,2RS-3,3RS-4	COUNTY MARSHALL PUTNAM	TOTAL SHEETS 40	SHEET NO. 18
CONTRACT NO. 68915			ILLINOIS FED. AID PROJECT	



**INTERSECTIONS:**

STA. 456 + 82.48 (IL 17) = STA. 41 + 02.69 (IL 89)  
 STA. 568 + 30.08 (IL 89) = STA. 426 + 57.77 (IL 18)



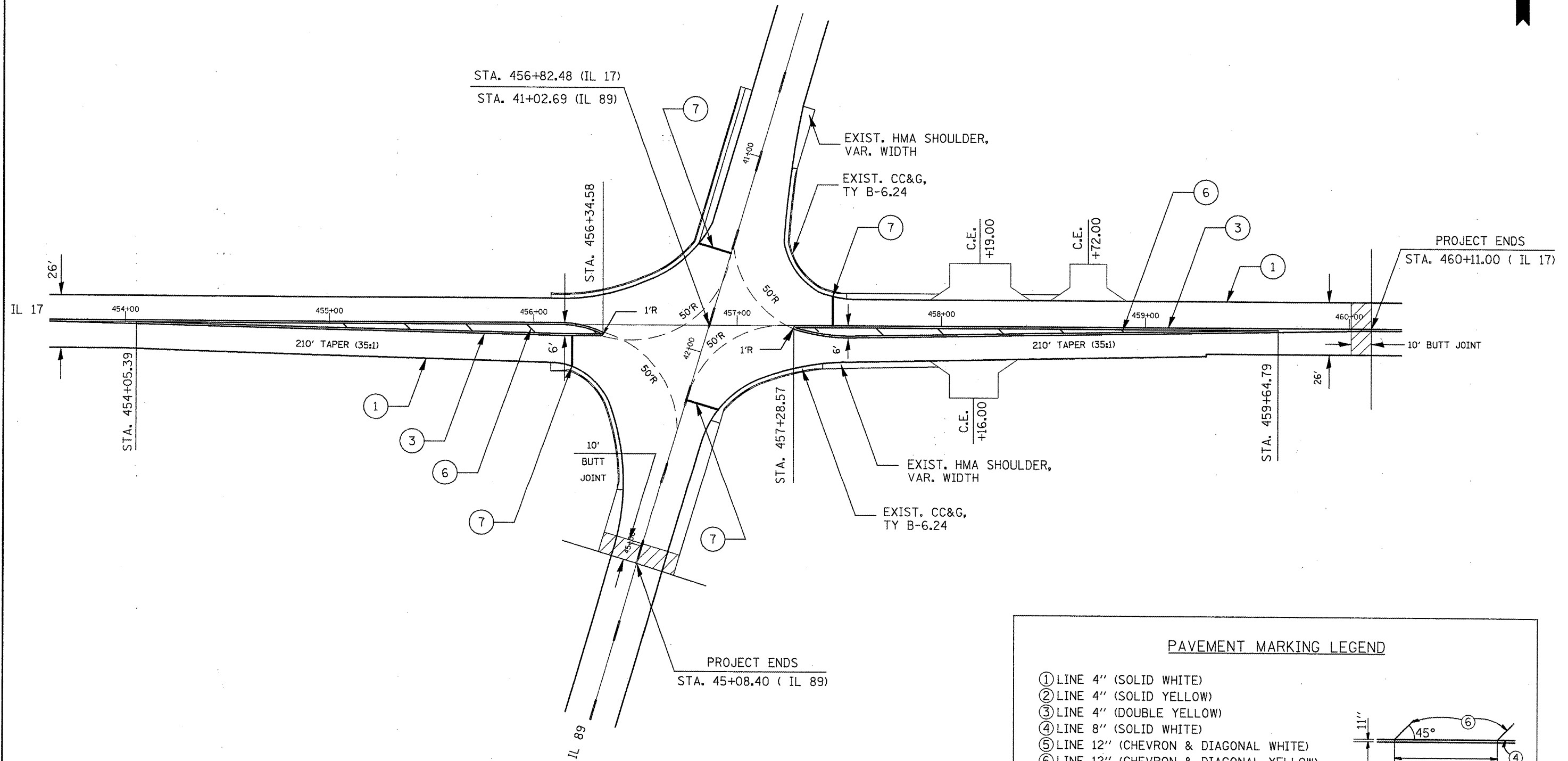
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USER NAME = johnsonv	DESIGNED -	REVISED -
PLOT SCALE = 100.0000 / IN.	DRAWN -	REVISED -
PLOT DATE = 12/5/2009	CHECKED -	REVISED -
	DATE -	REVISED -

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

**LINE DIAGRAM**  
 NOT TO SCALE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE. 698 645	SECTION 123RS-4,122,124RS-5,2RS-3,3RS-4	COUNTY MARSHALL PUTNAM	TOTAL SHEETS 40	SHEET NO. 19
CONTRACT NO. 68915				
ILLINOIS FED. AID PROJECT				



**PAVEMENT MARKING LEGEND**

- ① LINE 4" (SOLID WHITE)
- ② LINE 4" (SOLID YELLOW)
- ③ LINE 4" (DOUBLE YELLOW)
- ④ LINE 8" (SOLID WHITE)
- ⑤ LINE 12" (CHEVRON & DIAGONAL WHITE)
- ⑥ LINE 12" (CHEVRON & DIAGONAL YELLOW)
- ⑦ LINE 24" (STOP BAR)

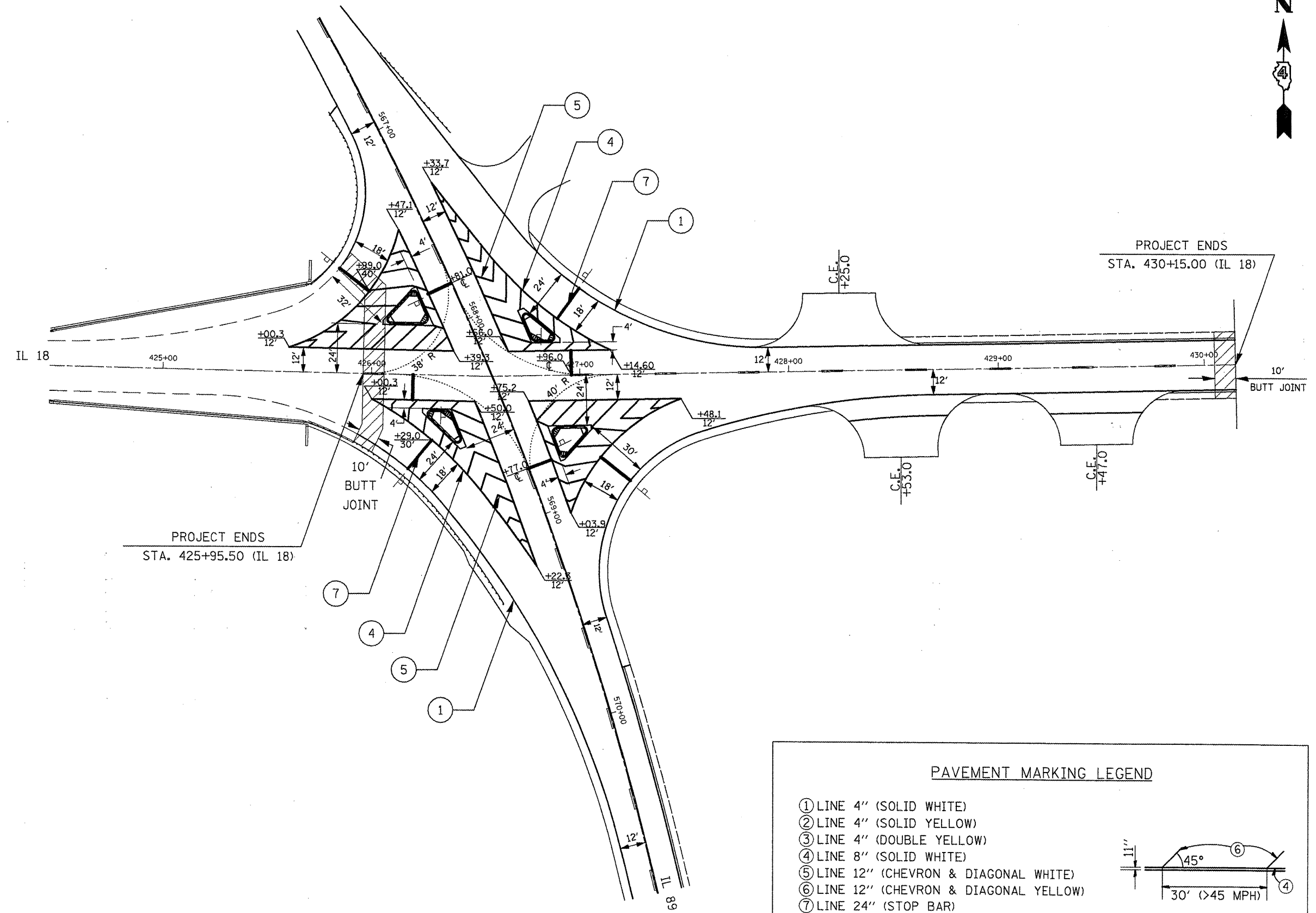
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		DRAWN -	REVISED -
	PLOT SCALE = 100.0000 / IN.	CHECKED -	REVISED -
	PLOT DATE = 12/5/2009	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**IL 17 AND IL 89  
INTERSECTION DETAIL**

SCALE: 1" = 50'    SHEET NO. 1 OF 1 SHEETS    STA.    TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
698 849	123RS-4,122,124RS-5,2RS-3,3RS-4	MARSHALL PUTNAM	40	20
CONTRACT NO. 68915				
ILLINOIS FED. AID PROJECT				



**PAVEMENT MARKING LEGEND**

- ① LINE 4" (SOLID WHITE)
- ② LINE 4" (SOLID YELLOW)
- ③ LINE 4" (DOUBLE YELLOW)
- ④ LINE 8" (SOLID WHITE)
- ⑤ LINE 12" (CHEVRON & DIAGONAL WHITE)
- ⑥ LINE 12" (CHEVRON & DIAGONAL YELLOW)
- ⑦ LINE 24" (STOP BAR)

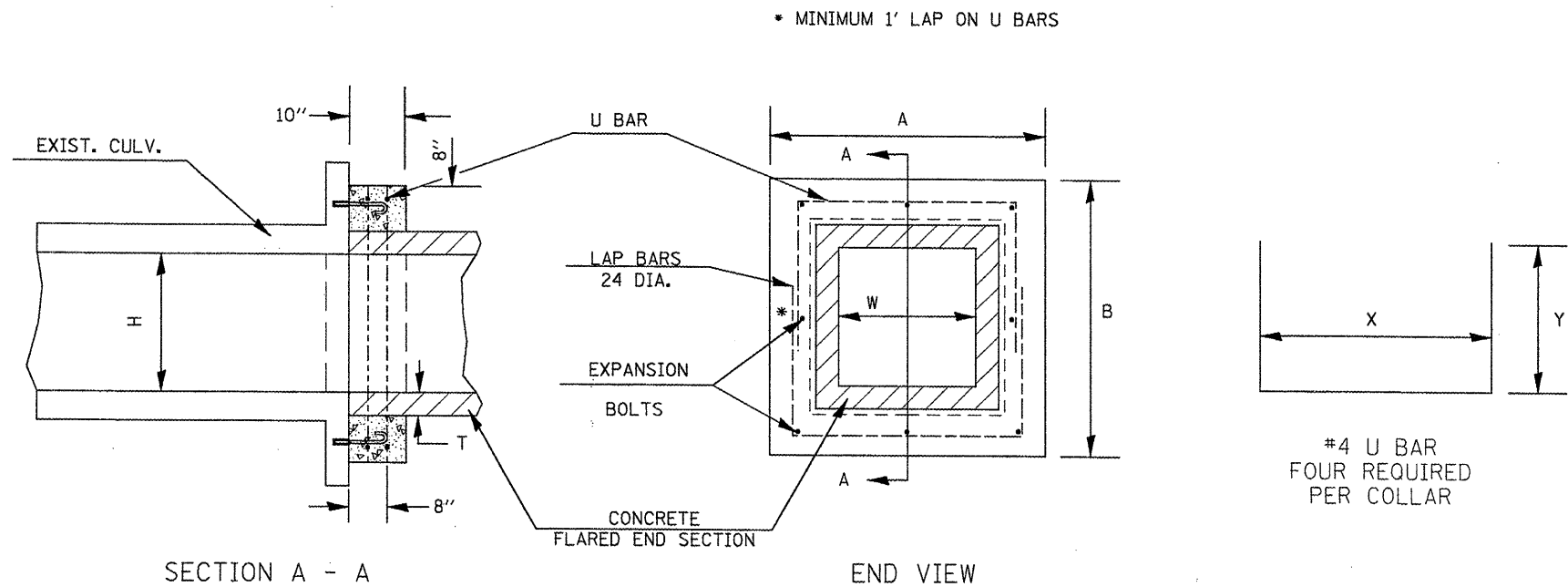
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68915 - Phase II.dgn		DRAWN -	REVISED -
	PLDT SCALE = 100.0000' / IN.	CHECKED -	REVISED -
	PLDT DATE = 12/5/2009	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**IL 89 AND IL 18  
INTERSECTION DETAIL**

SCALE: 1" = 50'    SHEET NO. 1 OF 1 SHEETS    STA.    TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
69E 649	123RS-4,122,124RS-5,2RS-3,3RS-4	MARSHALL PUTNAM	40	21
CONTRACT NO. 68915				
ILLINOIS FED. AID PROJECT				



DIMENSIONS

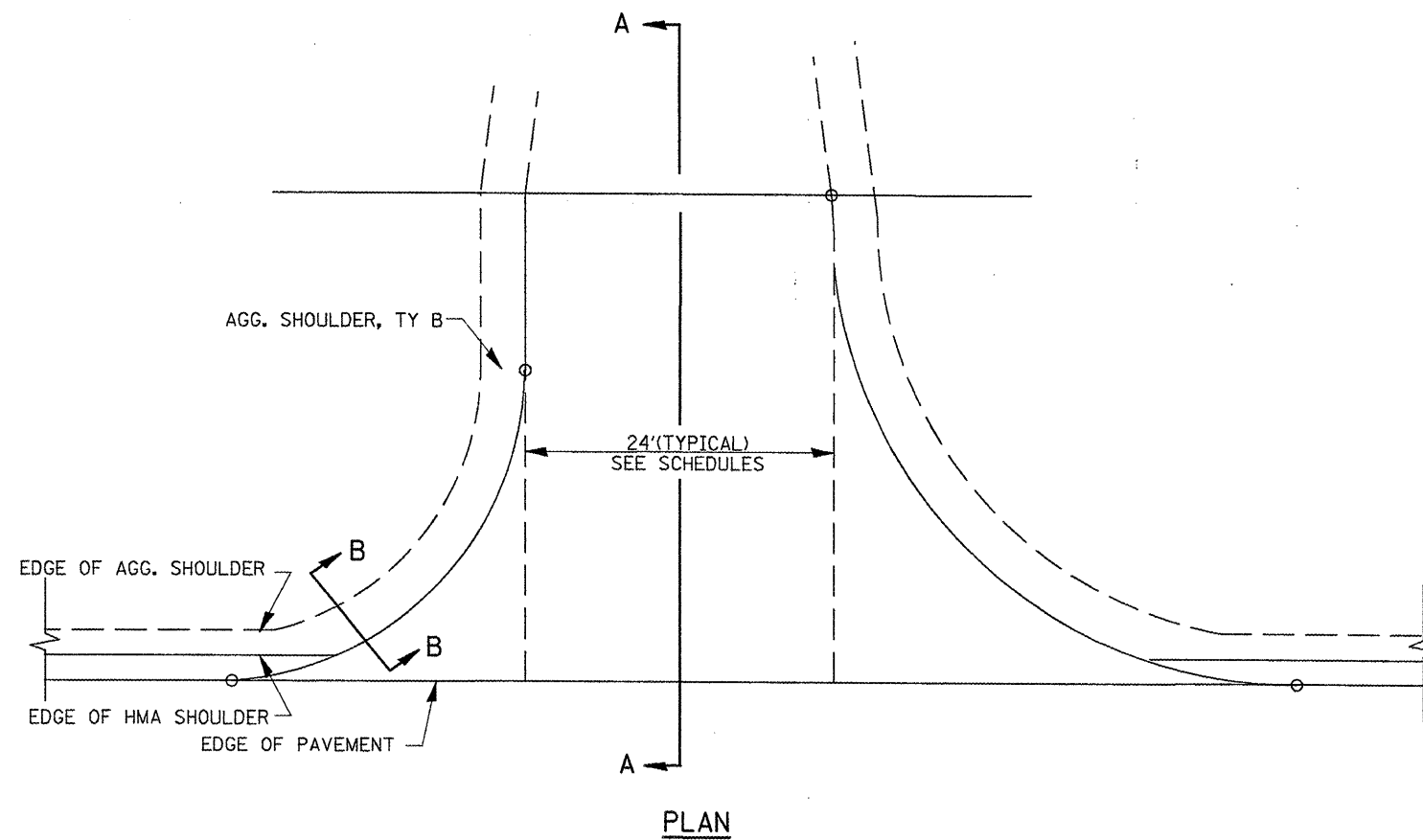
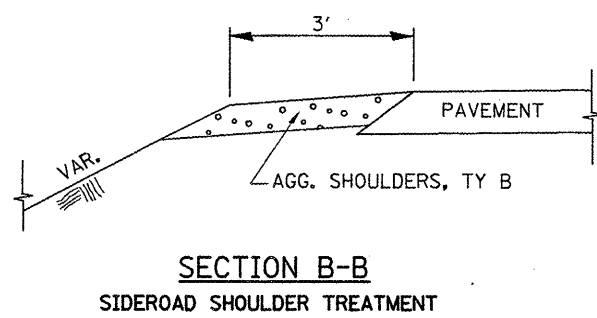
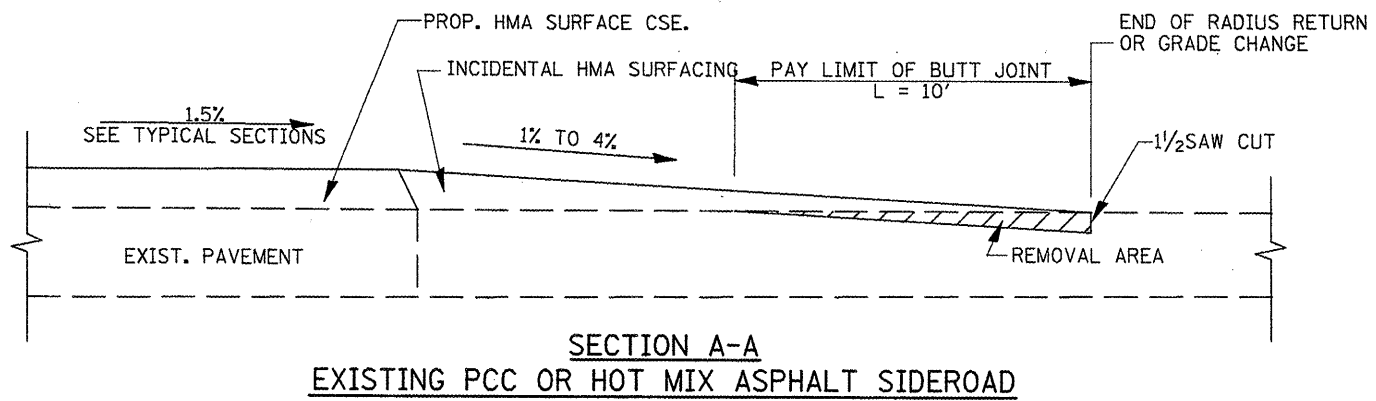
LOCATION	EXISTING BOX		A	B	T *	EACH COLLAR				
	W (FT)	H (FT)				CL SI	REINFORCEMENT BARS		EXPANSION BOLTS	
							CU YD	X		Y
STA. 352+21.90	2	1.5	4'-0"	3'-0"	4	0.27	3'-4"	26	20	8
STA. 373+74.59	2	1.5	4'-0"	3'-0"	4	0.27	3'-4"	26	20	8

GENERAL NOTES

1. THE COLLAR SHALL BE CONSTRUCTED ENTIRELY OF CLASS SI CONCRETE AND IN ACCORDANCE WITH THE APPLICABLE PORTIONS OF SECTION 503 OF THE STANDARD SPECIFICATIONS. REINFORCEMENT BARS SHALL CONFORM TO SECTION 508.
2. EXPANSION BOLTS SHALL CONSIST OF APPROVED EXPANSIONS ANCHORS, AND  $\frac{3}{4}$ " (M20) HOOK BOLTS WHICH CONFORM TO SECTION 1006.09. THESE BOLTS SHALL EXTEND AT LEAST 8"(200) INTO THE NEW CONCRETE.

\* DIMENSIONS FOR ASTM C789.C789.

ALL DIMENSIONS ARE IN INCHES  
UNLESS OTHERWISE NOTED



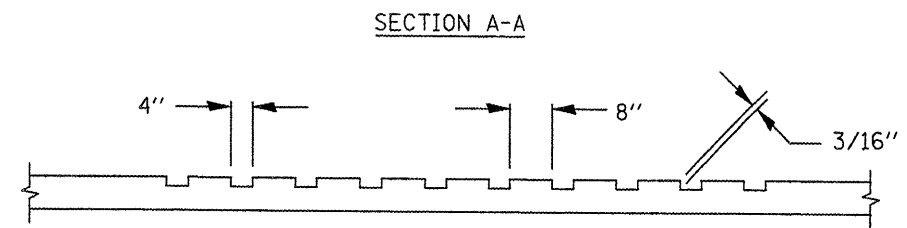
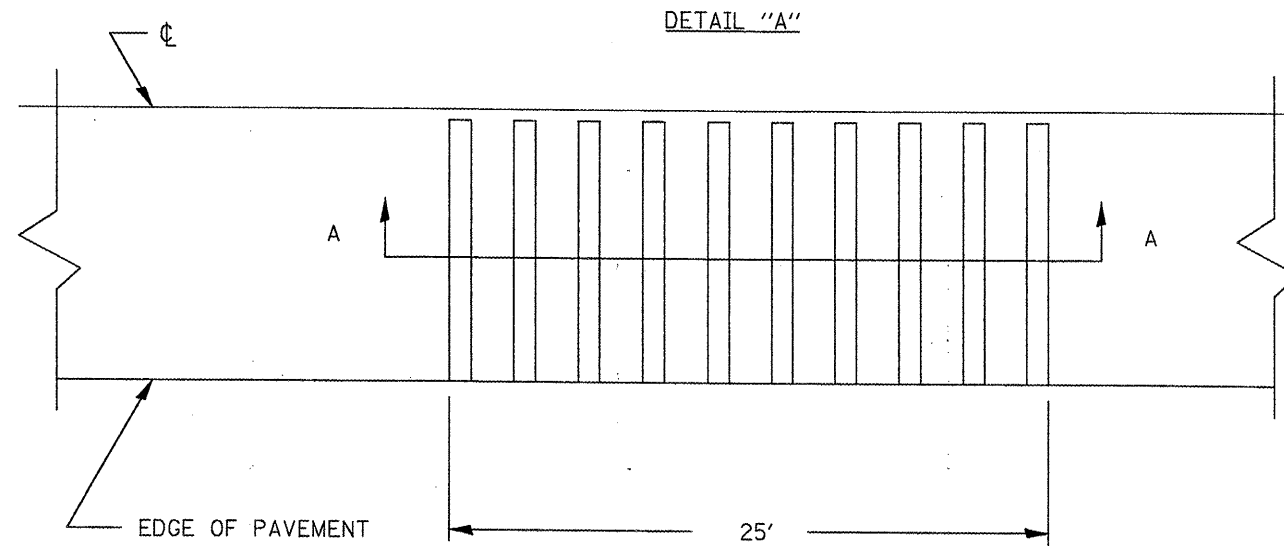
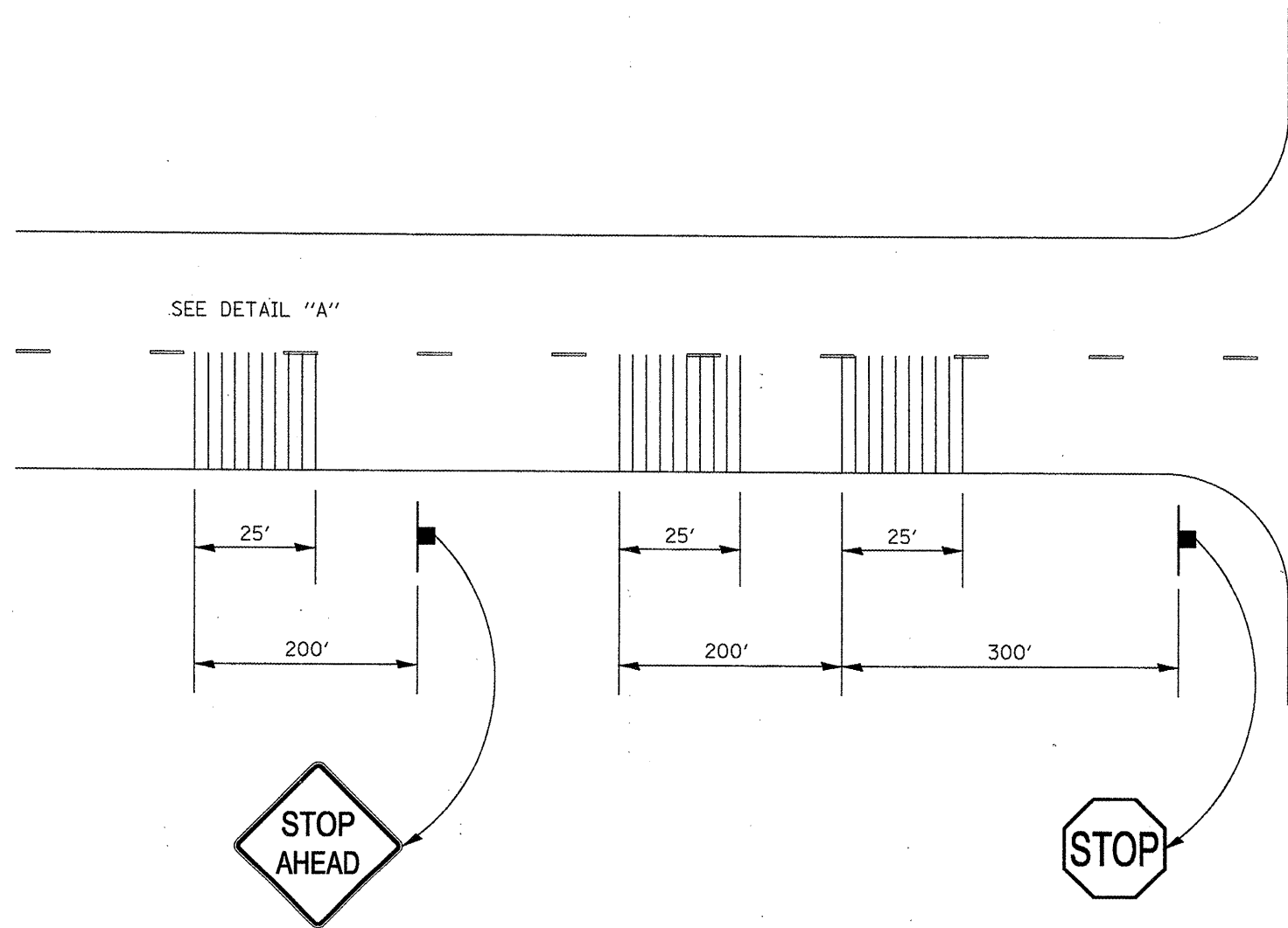
01-01-97	RENUM. C-105.02, NEW REVISION BOX	T.P.			
07-01-97	REVISE DESIGNER NOTES	J.A.			
09-15-05	REVISED DESIGNER NOTE	M.M.A.			
10-16-06	REVISED TO 2007 SPEC.	N.A.			

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SIDEROAD TREATMENT DETAIL

NOT TO SCALE | SHEET NO. 1 OF 1 SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
698 649	123RS-4,122,124RS-5,2RS-3,3RS-4	MARSHALL PUTNAM	40	23
CONTRACT NO. 68915				
FED. ROAD DIST. NO.   ILLINOIS FED. AID PROJECT				



**NOTES:**

1. RUMBLE STRIPS ARE TO BE GROOVED IN THE PAVEMENT AFTER PLACEMENT OF HMA SURFACE COURSE.
2. ALL LABOR AND EQUIPMENT NECESSARY TO PERFORM THE WORK SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE PER EACH FOR RUMBLE STRIPS.

FILE NAME = 68915 - Phase II.dgn	USER NAME = johnsonv	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLDT SCALE = 100.0000' / IN.	CHECKED -	REVISED -
	PLDT DATE = 12/5/2009	DATE -	REVISED -

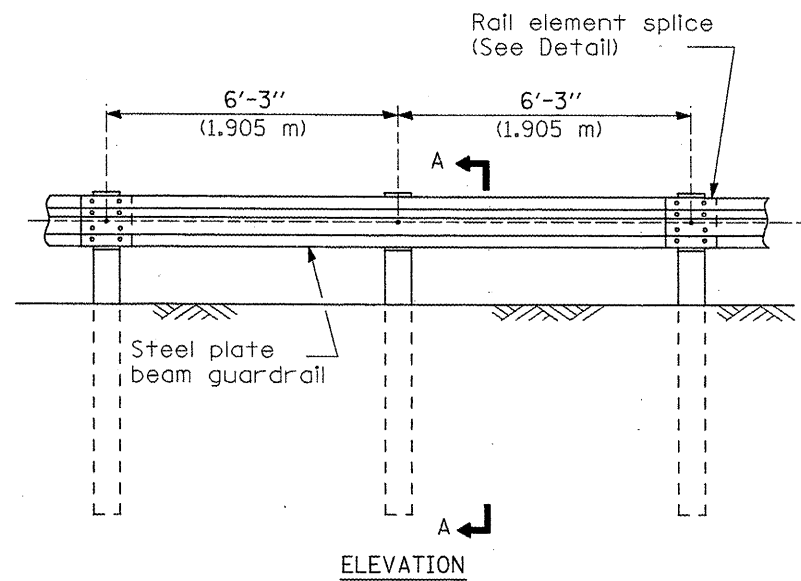
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**RUMBLE STRIP DETAIL**

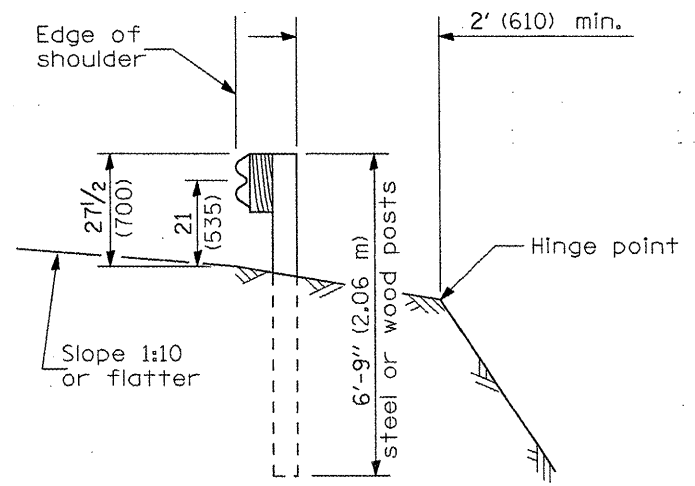
SCALE: SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
698 649	123RS-4,122,124RS-5,2RS-3,3RS-4	MARSHALL PUTNAM	40	24
CONTRACT NO. 68915				
ILLINOIS FED. AID PROJECT				

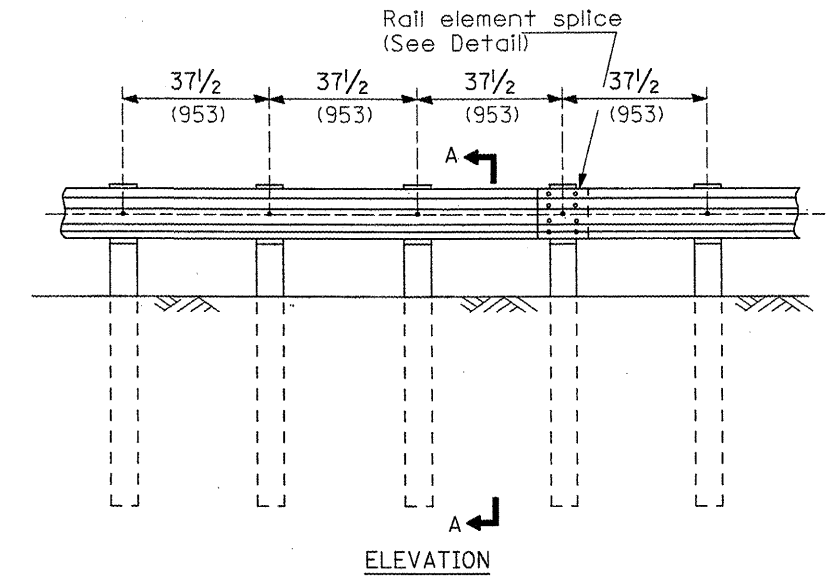




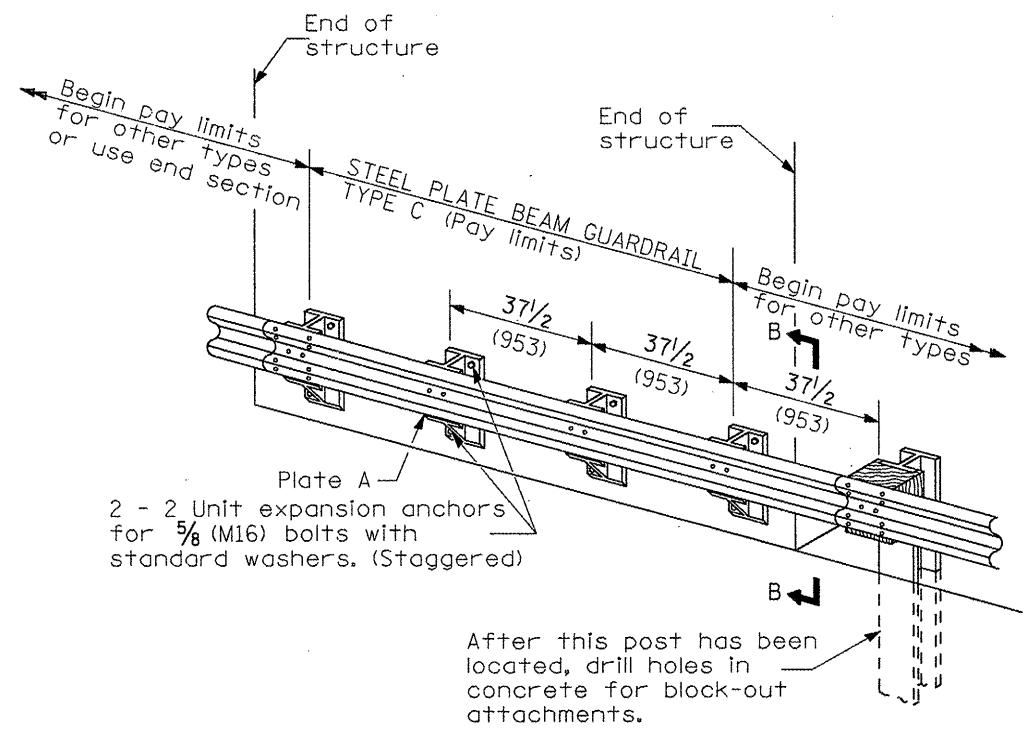
**TYPE A**  
6'-3" (1.905 m) Typical post spacing



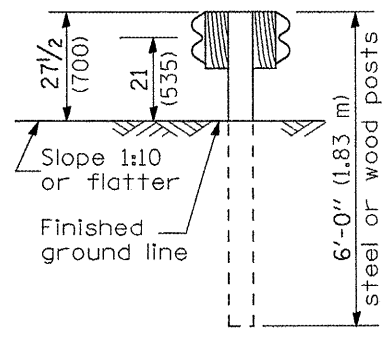
SECTION A-A



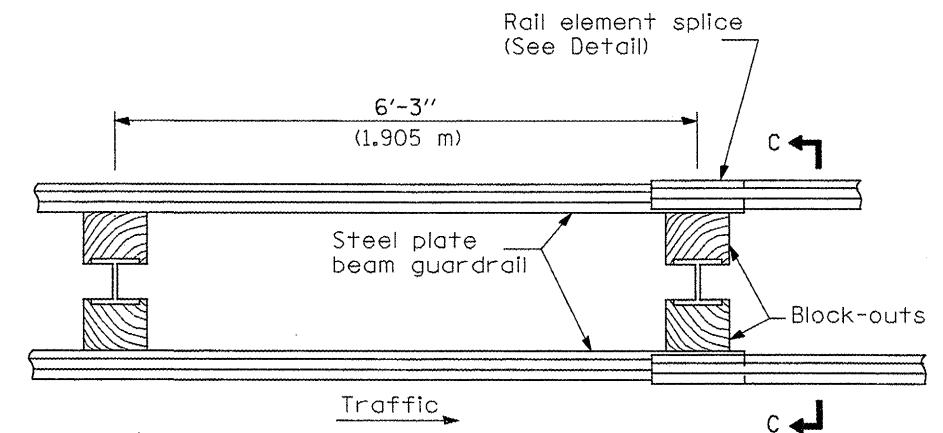
**TYPE B**  
37 1/2 (953) Closed post spacing



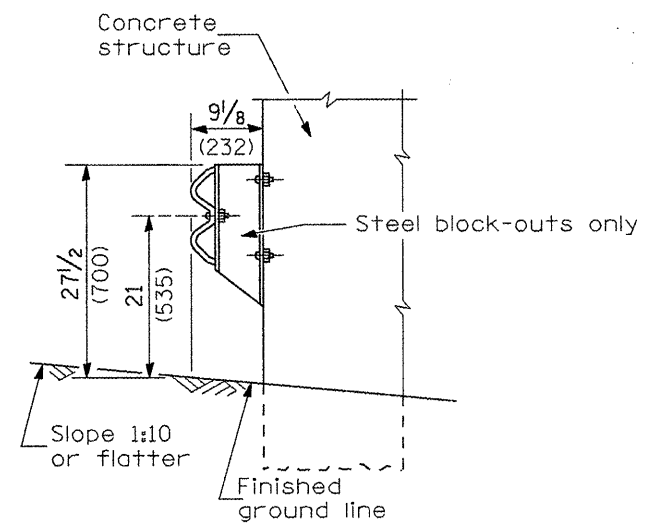
**TYPE C**  
37 1/2 (953) Block-out spacing



SECTION C-C



**TYPE D**  
Double steel plate beam guardrail  
6'-3" (1.905 m) typical post spacing



SECTION B-B

**GENERAL NOTES**

All slope ratios are expressed as units of vertical displacement to units of horizontal displacement (V:H).  
All dimensions are in millimeters (inches) unless otherwise shown.  
The existing steel posts may be drilled to match the bolt pattern shown herein for the wood block-out, or a new steel post shall be provided.  
This detail is applicable to the guardrail system used prior to January 1, 2007. For details on the Midwest Guardrail System, see Standard 630001.

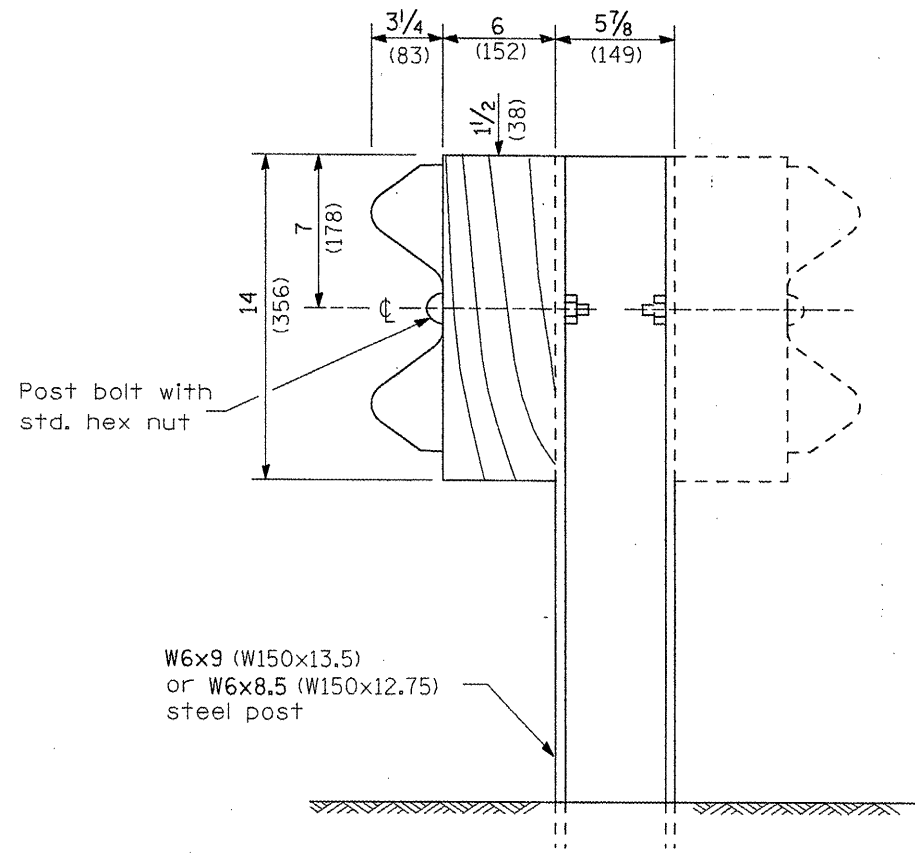
All dimensions are in inches (millimeters) unless otherwise noted.

03-01-07	NEW DETAIL	RJD			
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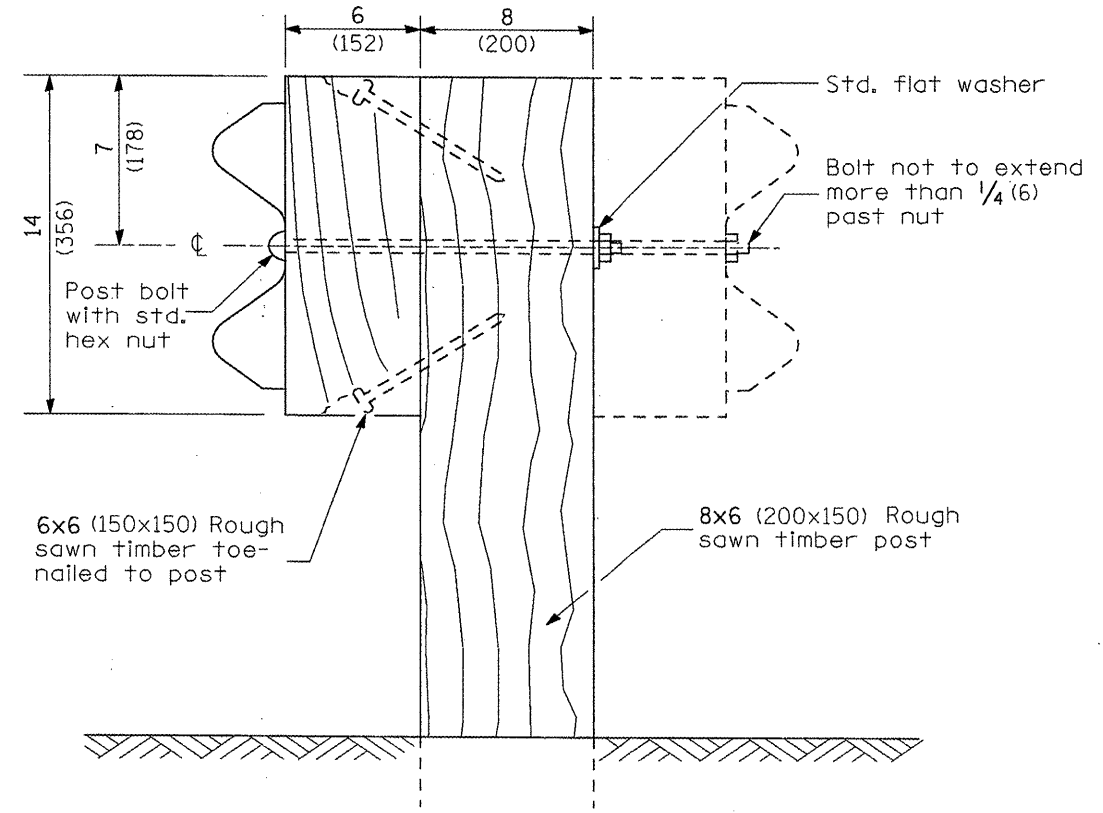
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**GUARDRAIL INSTALLATION DETAIL**  
NOT TO SCALE SHEET NO. 1 OF 4 SHEETS

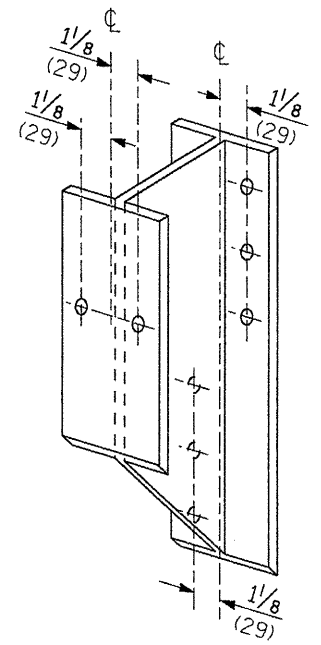
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
698 849	123RS-4, 122, 124RS-5, 2RS-3, 3RS-4	MARSHALL PUTNAM	40	25
CONTRACT NO. 68915				
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT				



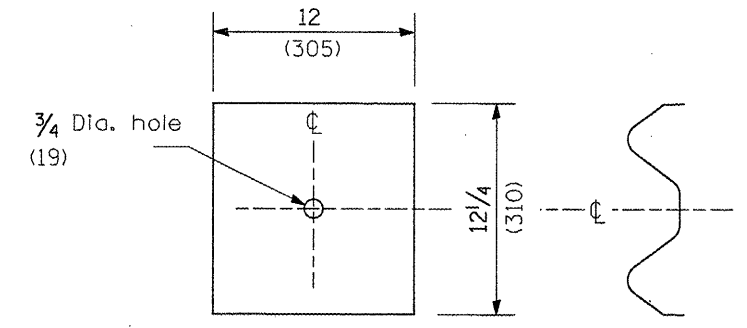
**STEEL POST CONSTRUCTION**



**WOOD POST CONSTRUCTION**



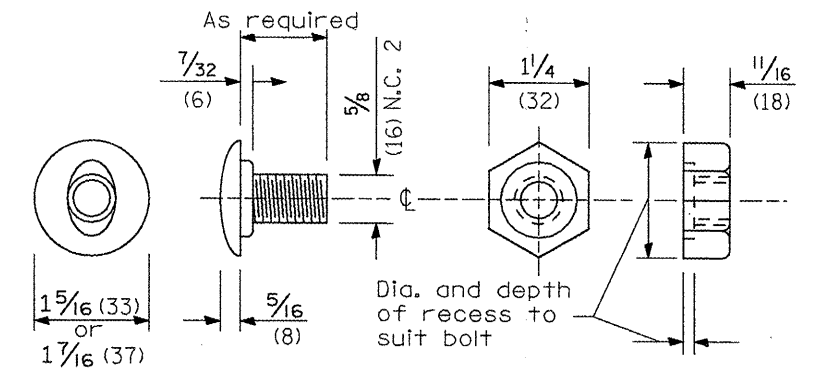
**STEEL BLOCK-OUT DETAIL**



**NOTE**

Plate A shall be placed between rail element and block-out at non-splice mounting points only when steel block-outs are used.

**PLATE A**

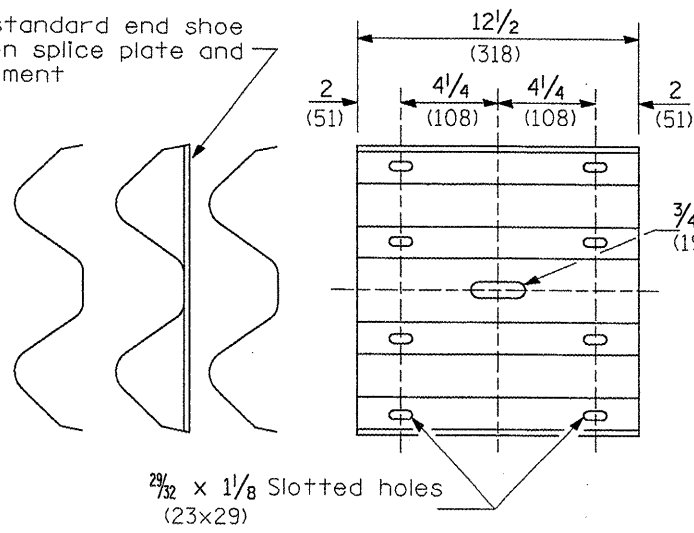


**POST OR SPLICE BOLT & NUT**

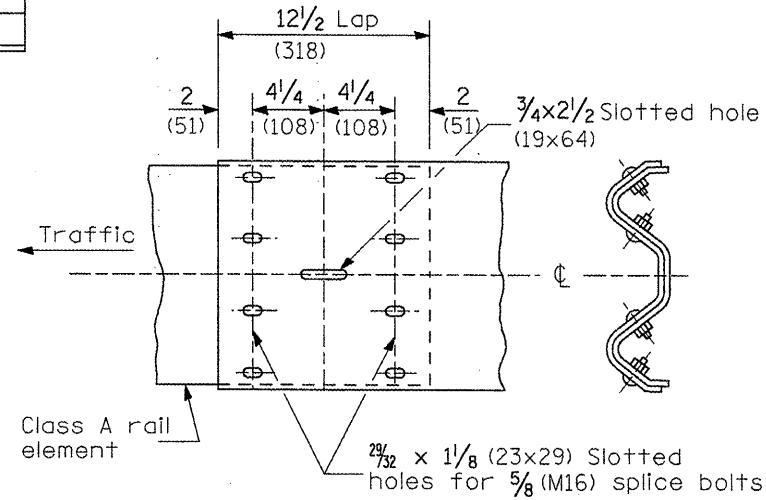
All dimensions are in inches (millimeters) unless otherwise noted.

F.A.S. RTE. 698 649	SECTION 123RS-4, 122, 124RS-5, 2RS-3, 3RS-4	COUNTY MARSHALL PUTNAM	TOTAL SHEETS 40	SHEET NO. 26
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 68915	

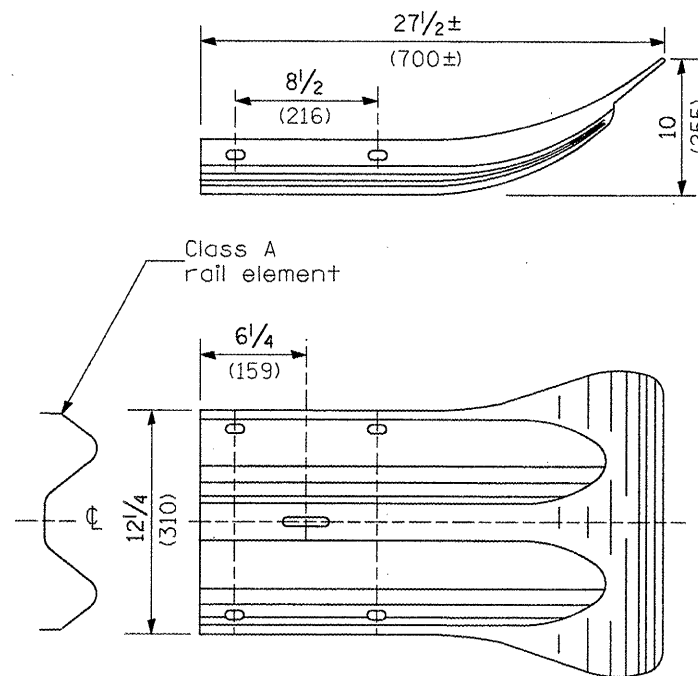
Place standard end shoe between splice plate and rail element



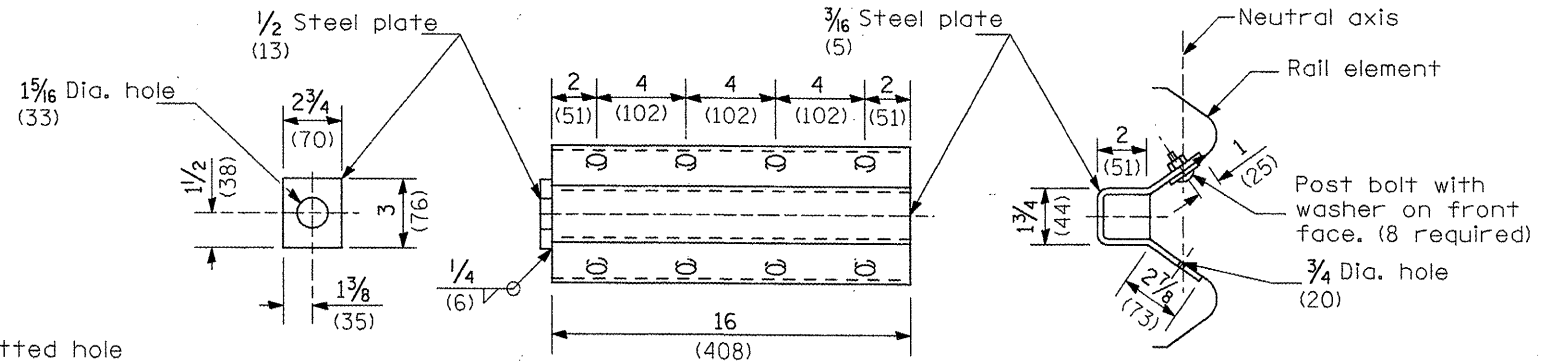
**SPLICE PLATE**



**RAIL ELEMENT SPLICE**

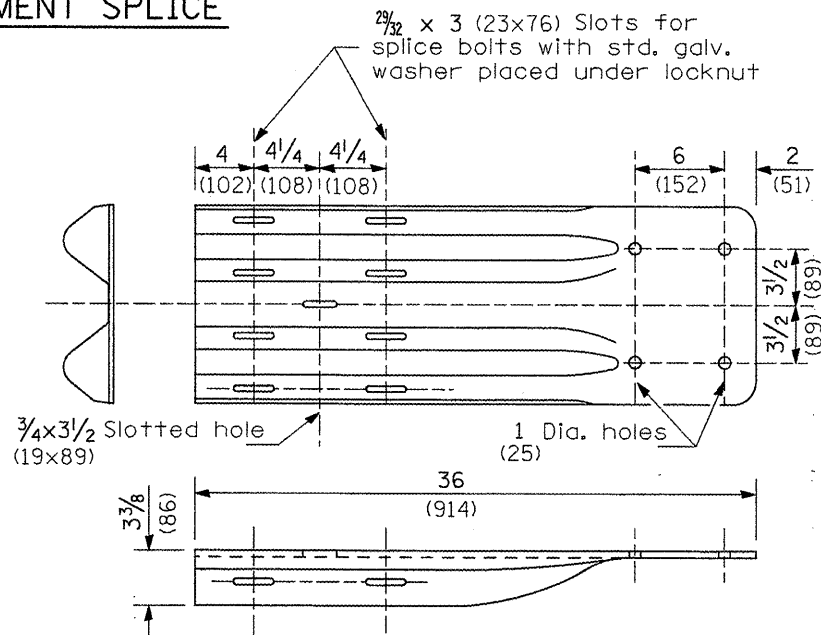


**END SECTION**



**NOTE**  
Anchor plate T shall be used to attach cable assembly to guardrail when required on traffic barrier terminals.

**ANCHOR PLATE T DETAILS**

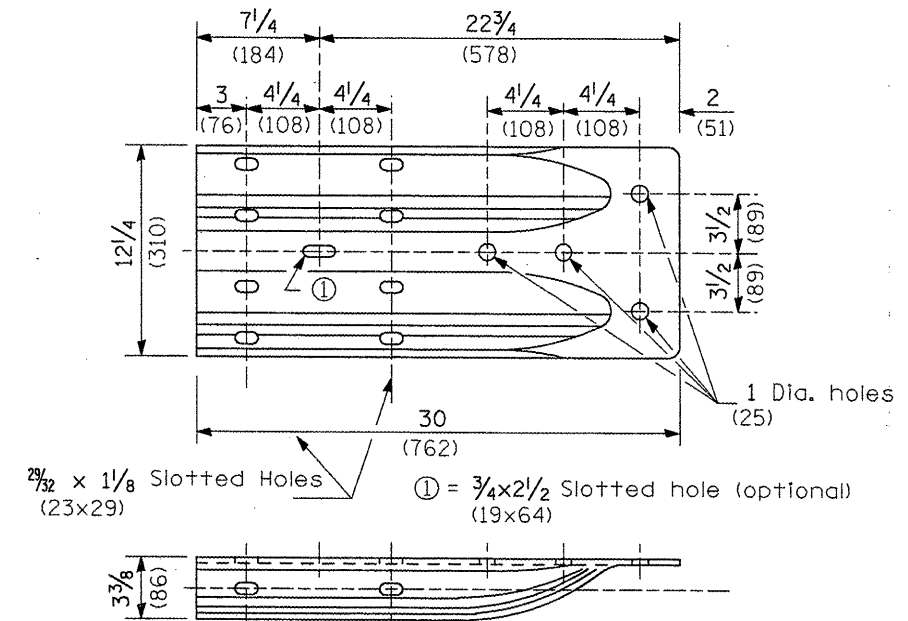


**NOTE**  
When end shoe is attached to a bridge parapet which has an expansion joint, the bolts shall be provided with a locknut or double nut and shall be tightened only to a point that will allow guardrail movement.

The standard end shoe shall be attached to the concrete with pre-drilled or self-drilling anchor bolts. The anchor cone shall be set flush with the surface of the concrete.

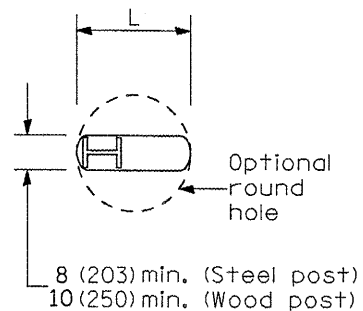
Externally threaded studs protruding from the surface of the concrete will not be permitted.

**END SHOE**

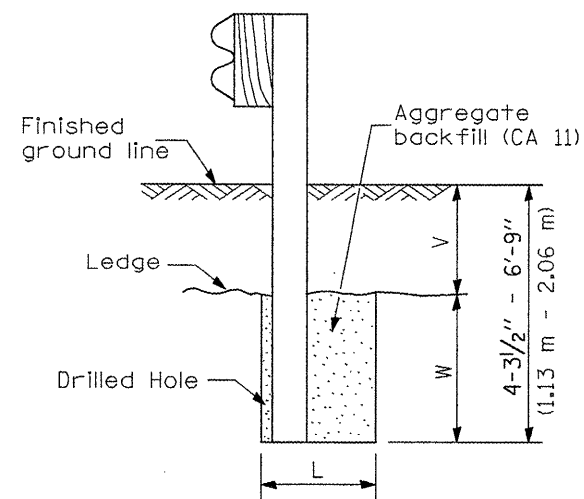


**ALTERNATE END SHOE**

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



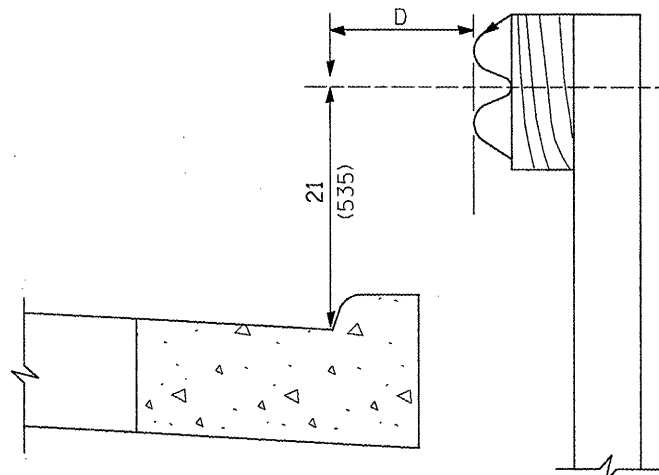
PLAN



Notes:  
Ledge line is top of rock ledge or hard slag fill.

ELEVATION

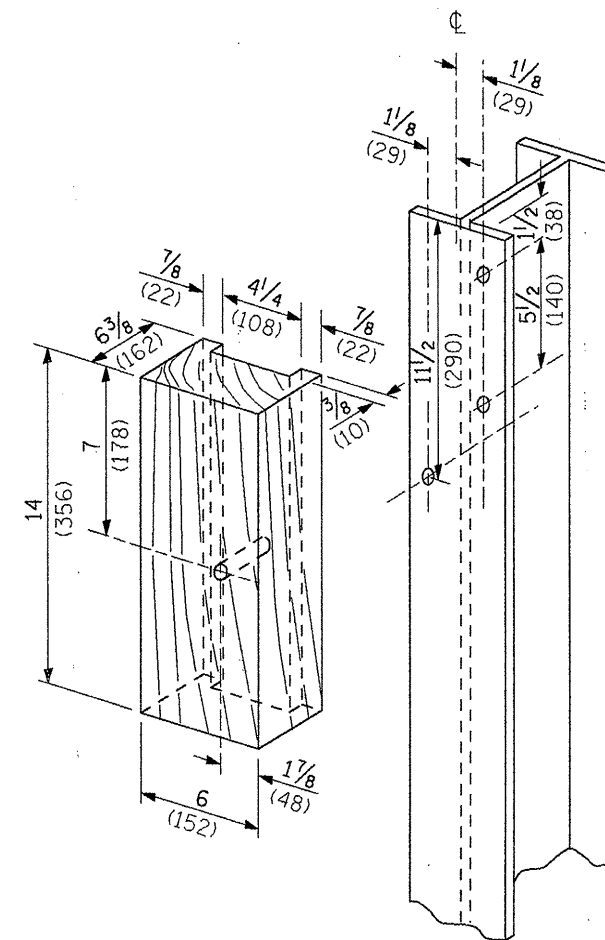
**FOOTING FOR POST WHEN IMPERVIOUS MATERIAL IS ENCOUNTERED**



Note:  
If it is necessary for D to be more than 12 (300) and less than 10'-0" (3.0 m) type M-2 (M-5) curb and gutter (Std. 606001) shall be used in front of and in advance of the guardrail.

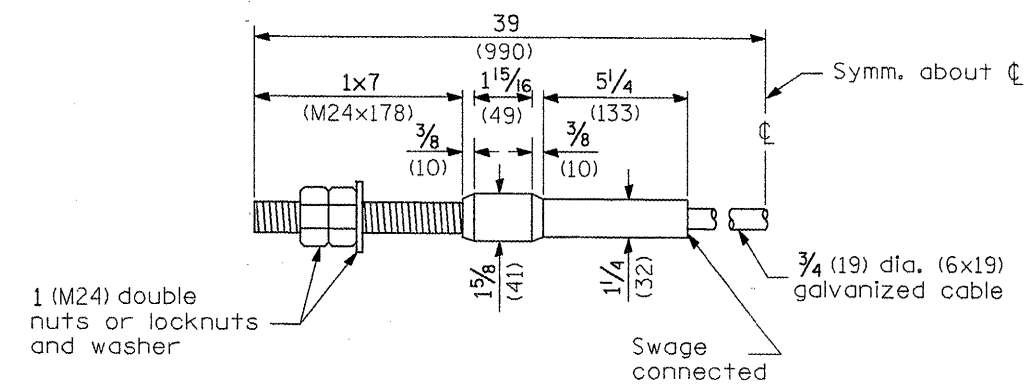
**GUARDRAIL PLACED BEHIND CURB**

(D = 0 desirable to 12 (300) maximum)



**WOOD BLOCK-OUT AND STEEL POST DETAILS**

V	W	L	
		Steel Post	Wood Post
0 - 18 (0 - 460)	24 (610)	21 (530)	23 (580)
>18 - 41.5 (>460 - 825)	12 (305)	8 (203)	10 (250)
>41.5 - 53.5 (>825 - 1.13 m)	12 - 0 (305 - 0)	8 (203)	10 (250)



**CABLE ASSEMBLY**

(18,100 kg (40,000 lbs.) min. breaking strength)  
Tighten to taut tension.

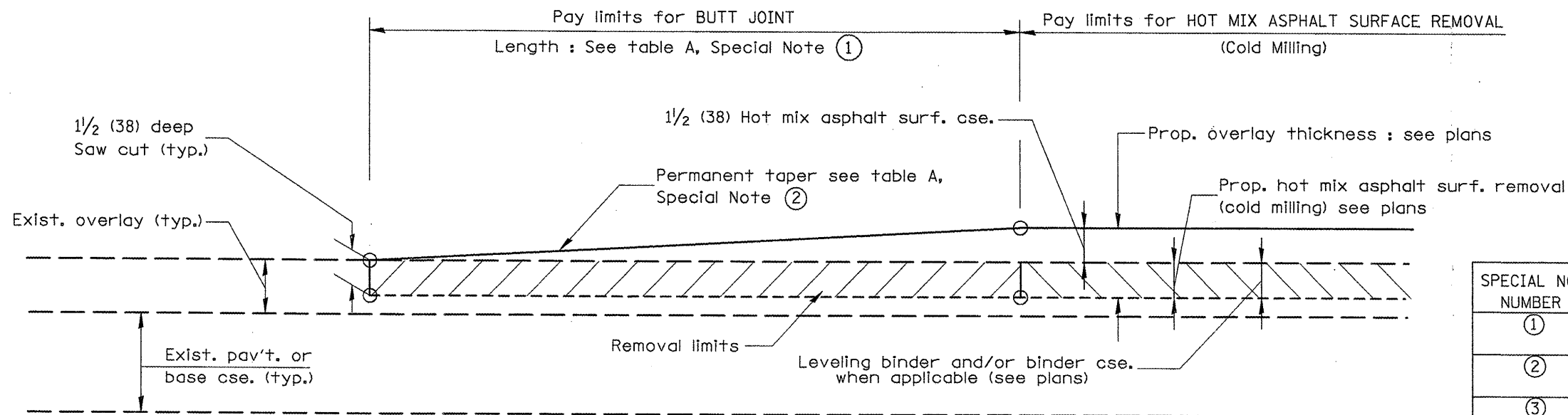
All dimensions are in inches (millimeters) unless otherwise noted.

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

GUARDRAIL INSTALLATION DETAIL

NOT TO SCALE SHEET NO. 4 OF 4 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
698 649	123RS-4,122,124RS-5,2RS-3,3RS-4	MARSHALL PUTNAM	40	28
CONTRACT NO. 68915				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



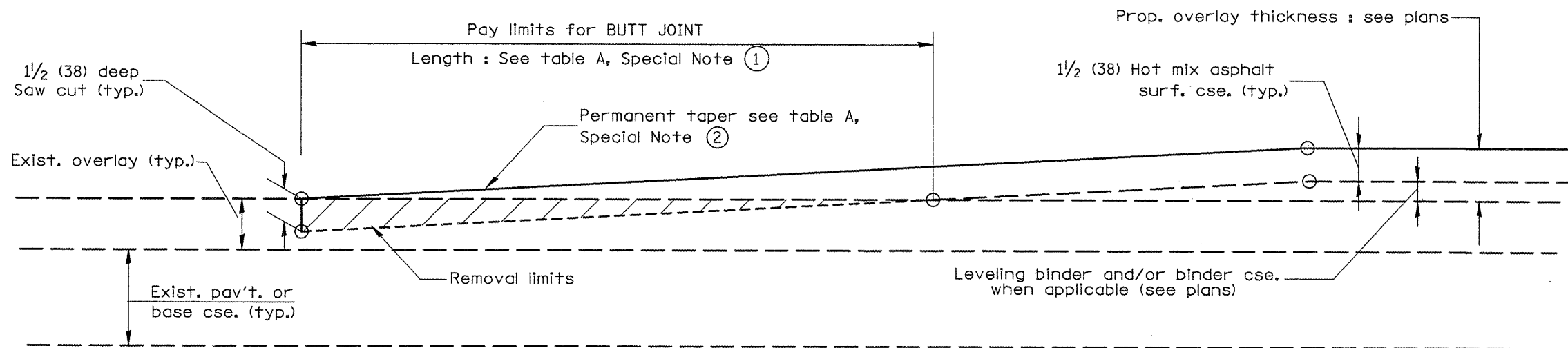
**CASE 1 : WITH HOT MIX ASPHALT SURFACE REMOVAL (COLD MILLING)**

**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**

1. The work shall be done in accordance with Article 406.08 and the Special Provision for Butt Joints.
2. 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.
3. 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.

01-01-97	RENUM. C-23.01, NEW REVISION BOX	T.P.
04-01-97	CORRECTION TO DEPTH	J.A.
09-15-05	REVISED DESIGNER NOTE	M.M.A.
10-16-06	REVISED TO 2007 SPEC.	M.A.

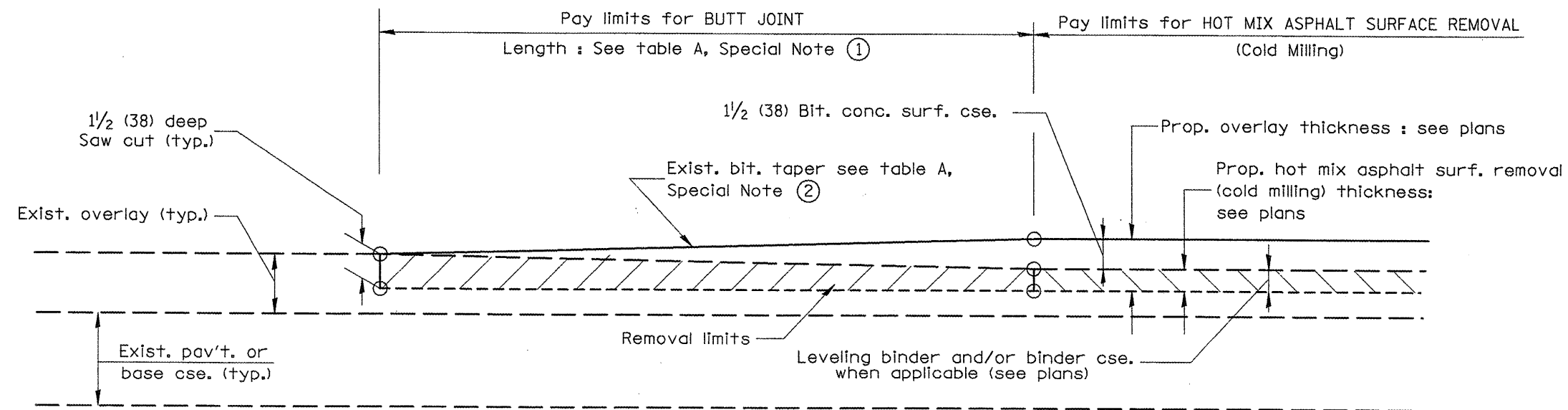
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**BUTT JOINTS**

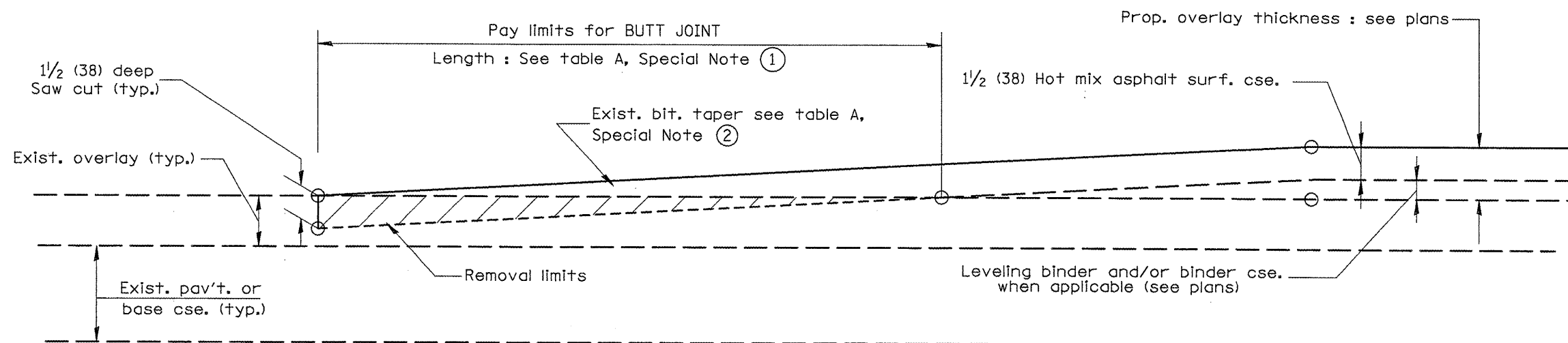
NOT TO SCALE

SHT. 1 OF 3  
CADD STD. 406101-04

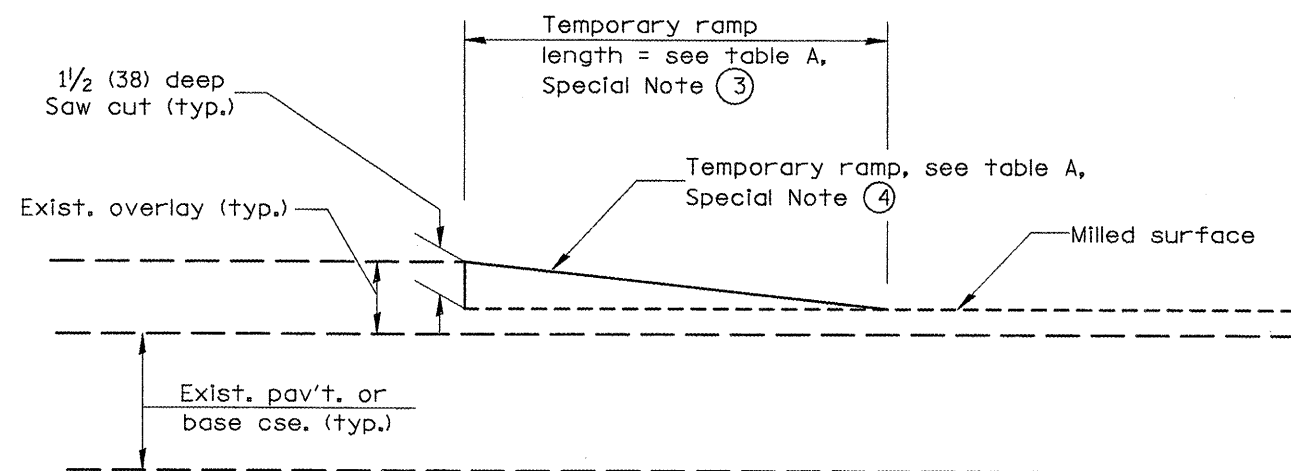
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
696 649	123RS-4,1122,124RS-5,2RS-3,3RS-4	MARSHALL COUNTY	40	29
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT			CONTRACT NO. 68915	



**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.

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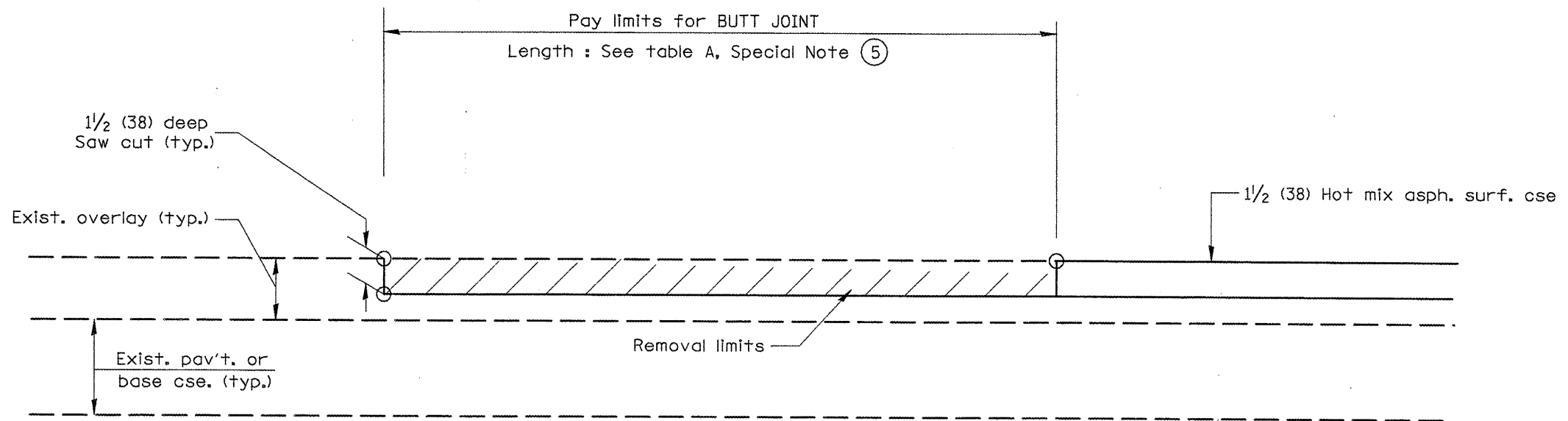
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

BUTT JOINTS

NOT TO SCALE

SHT. 2 OF 3  
CADD STD. 406101-D4

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
638 645	123RS-4/122,124RS-5,2RS-3,3RS-4	MARSHALL PUTNAM	40	30
CONTRACT NO. 68915				
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



**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.

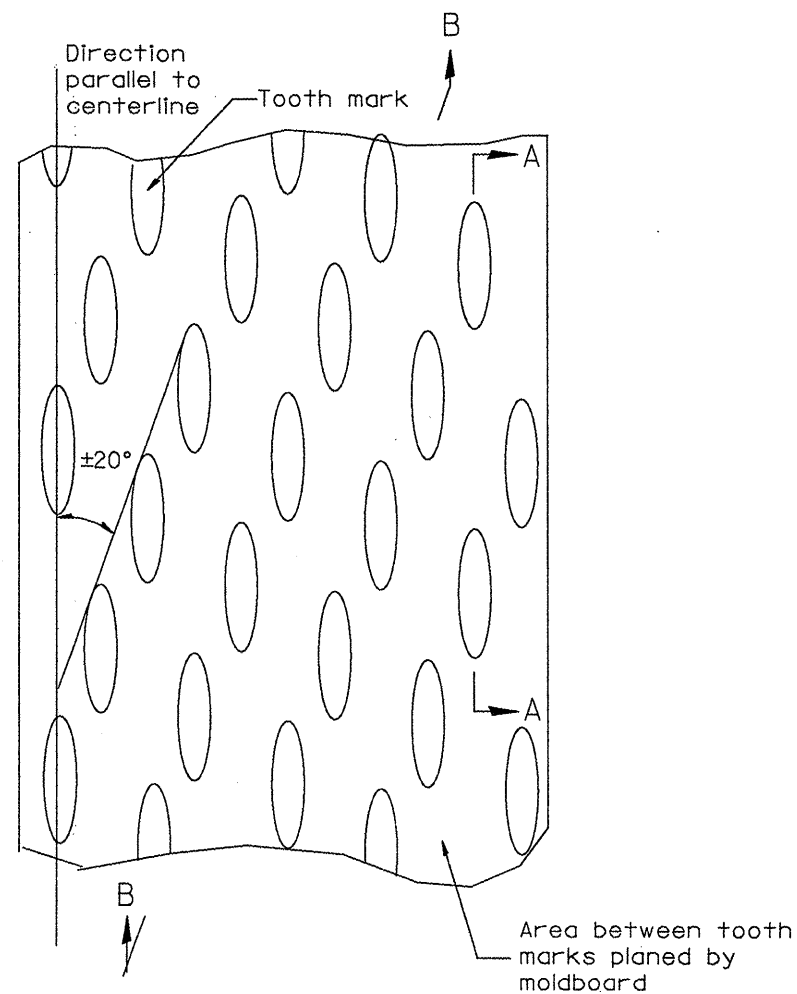
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

BUTT JOINTS

NOT TO SCALE

SHT. 3 OF 3  
CADD STD. 406101-D4

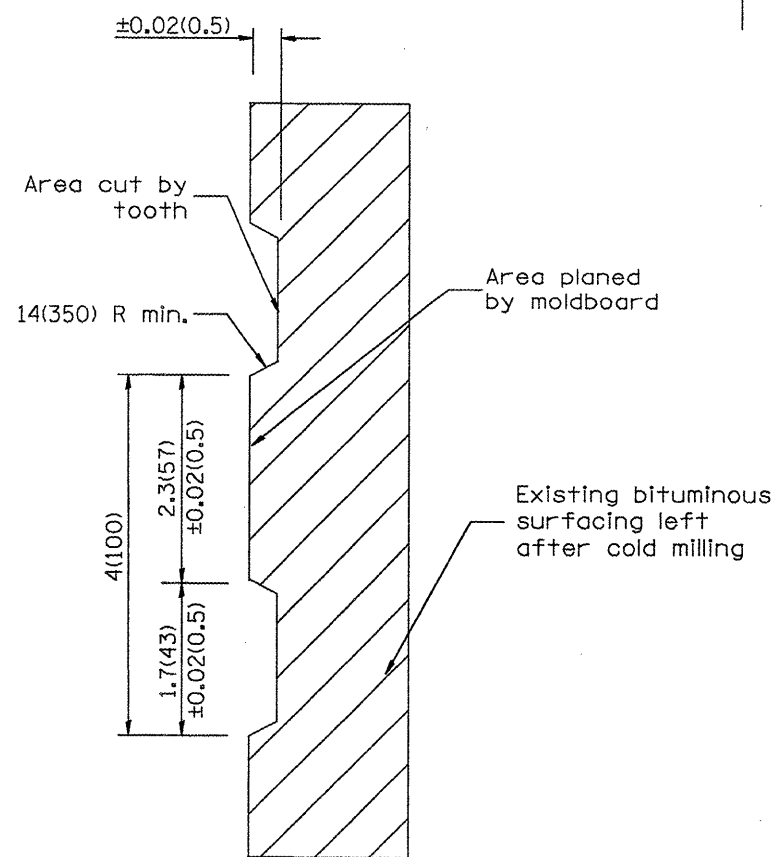
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
698 648	123RS-4,1122,1124/RS-5,2RS-3,3RS-4	MARSHALL PUTNAM	40	31
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT			CONTRACT NO. 68915	



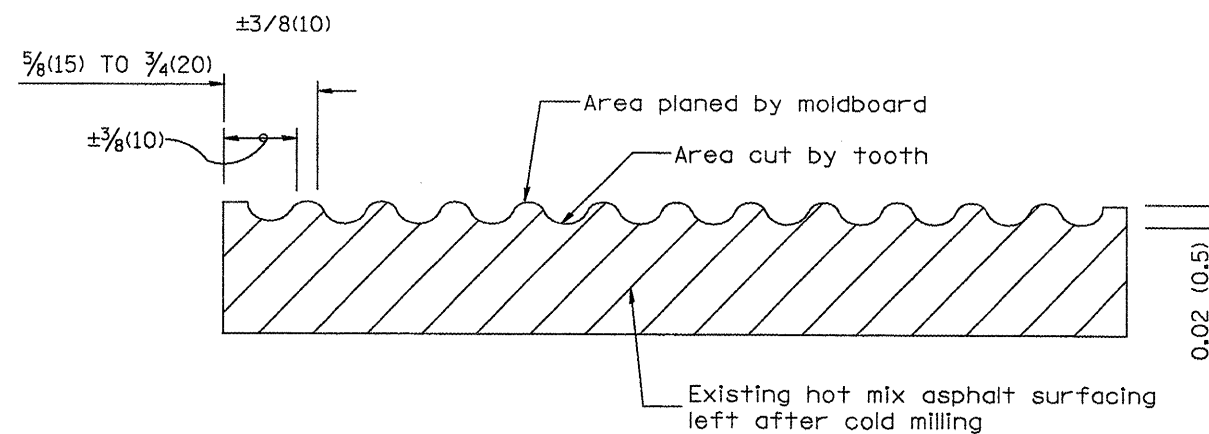
PLAN

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.



SECTION A-A



SECTION B-B PROJECTED  
PERPENDICULAR TO CENTERLINE

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

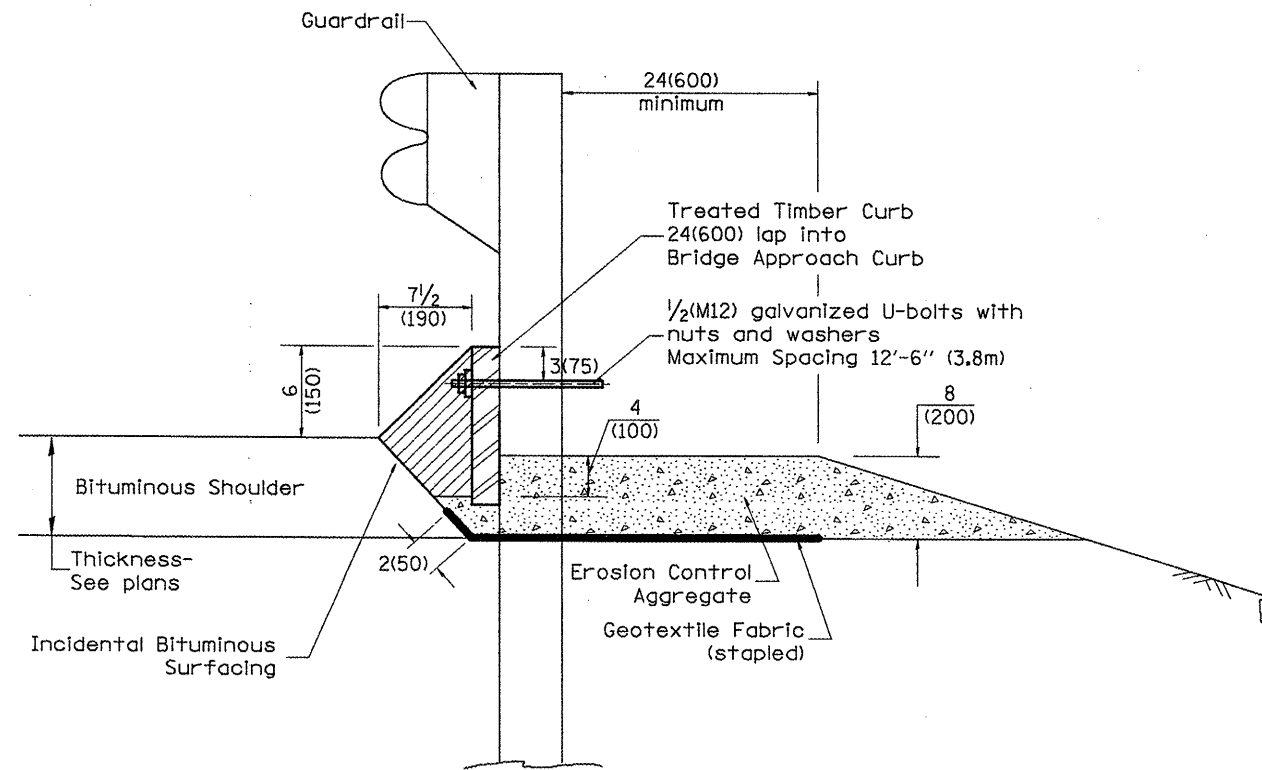
HOT MIX ASPHALT SURFACE REMOVAL (COLD MILLING)

NOT TO SCALE

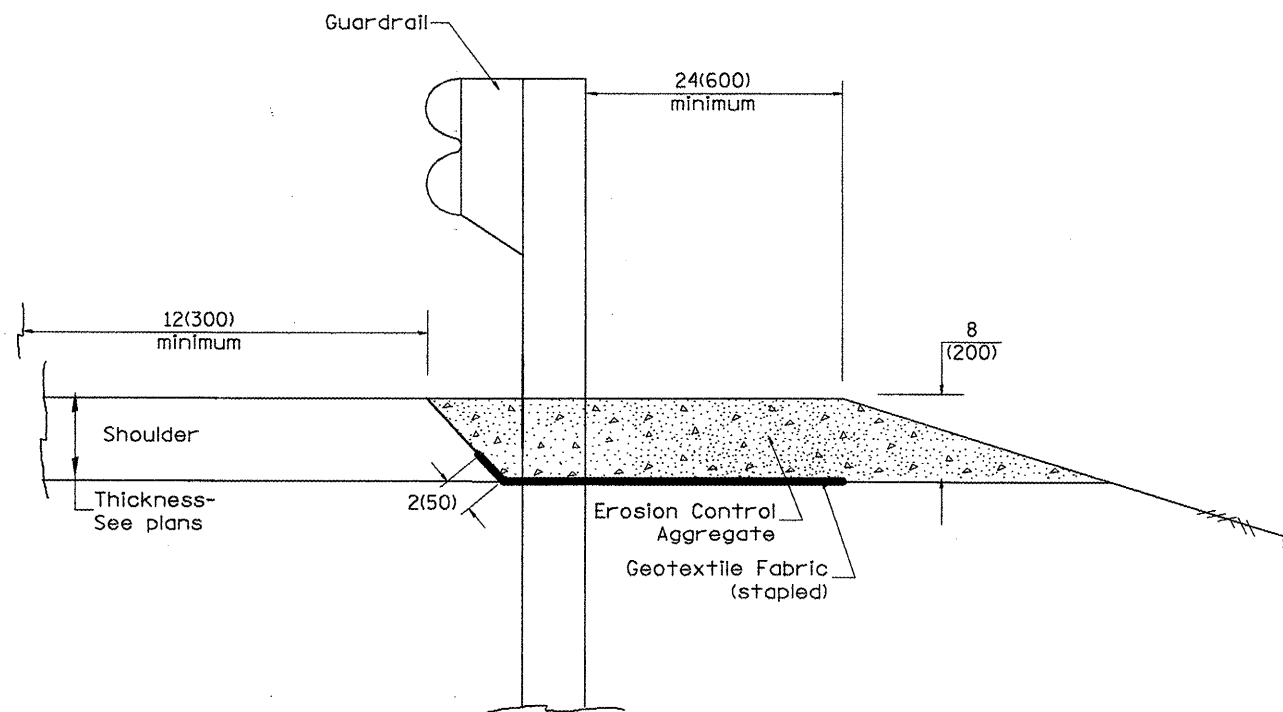
CADD STD. 440001-D4

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
698 649	123RS-4,122,124RS-5,2RS-3,3RS-4	MARSHALL PUTNAM	40	32
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 68915	





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.

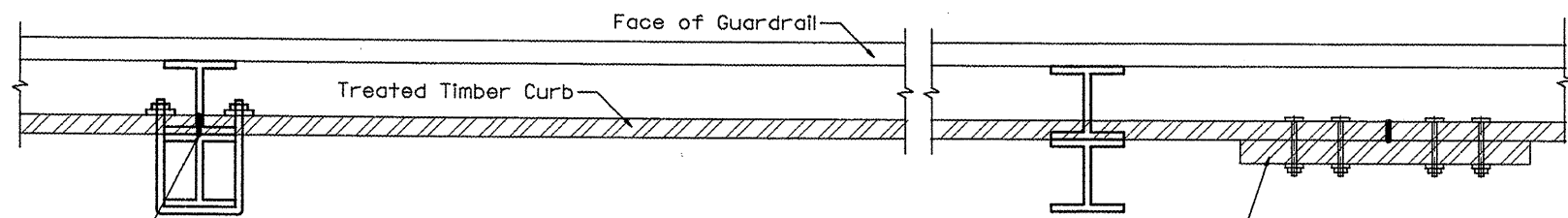
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

GUARDRAIL EROSION CONTROL TREATMENTS

NOT TO SCALE

SHT. 1 OF 2  
CADD STD. 630101-D4

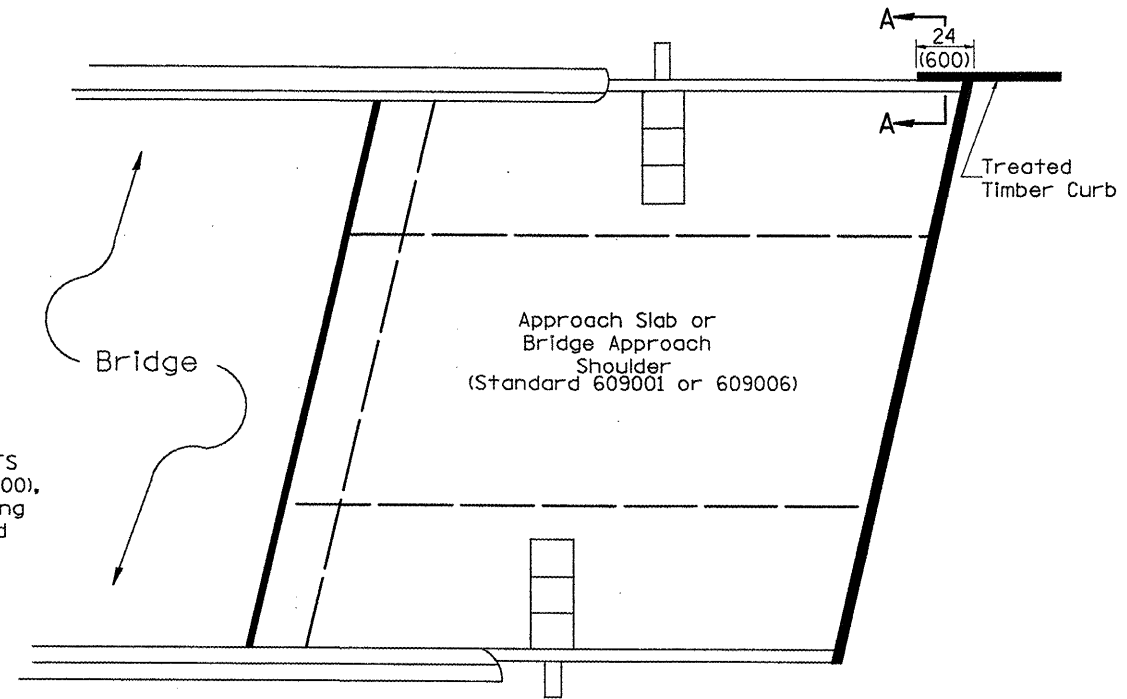
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
698 649	123RS-4, 122, 124RS-5, 2RS-3, 3RS-4	MARSHALL PUTNAM	40	33
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 68915	



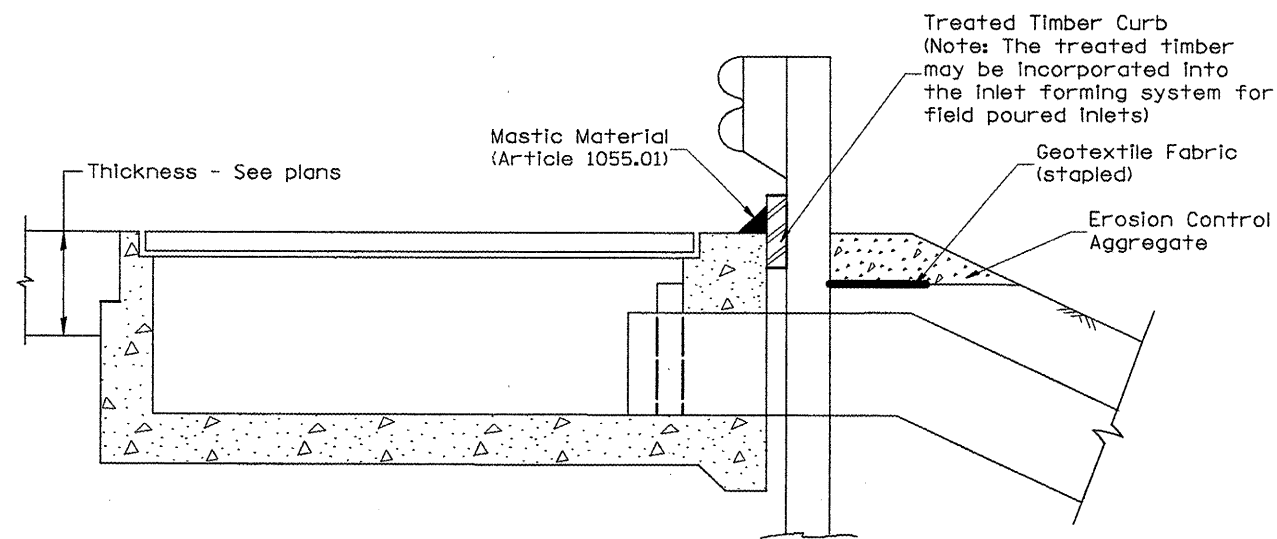
SPLICE LOCATED AT GUARDRAIL POST  
1/2(M12) galvanized U-bolt with  
nut & washer

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

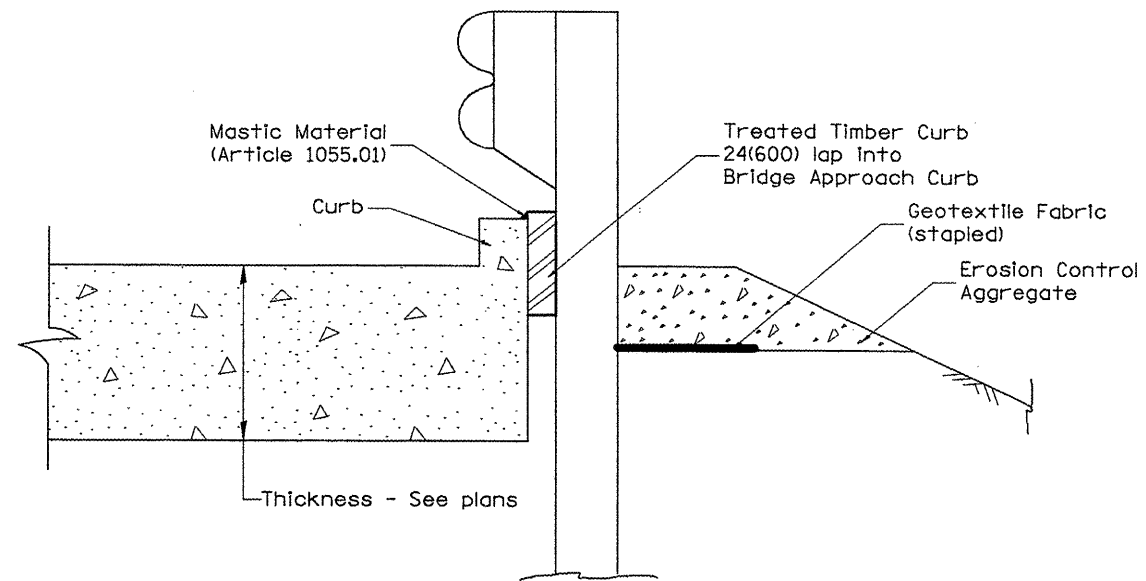
SPLICE LOCATED BETWEEN GUARDRAIL POSTS  
treated timber splice plate 2x12 (50x300),  
actual size 1 1/2 x 1 1/2 (40x290), 24(600) long  
with 8 evenly spaced 1/2(M12) galvanized  
bolts with nuts & washers.



**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.

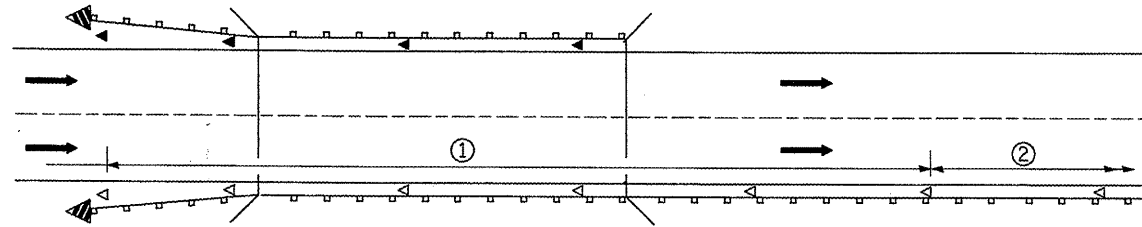
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

GUARDRAIL EROSION CONTROL TREATMENTS

NOT TO SCALE

SHT. 2 OF 2  
CADD STD. 630101-D4

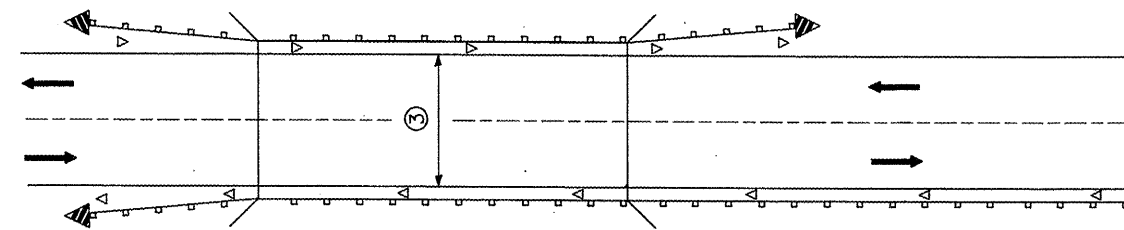
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
698 649	123RS-4,122,124RS-5,2RS-3,3RS-4	MARSHALL PUTNAM	40	34
CONTRACT NO. 68915				
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



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**



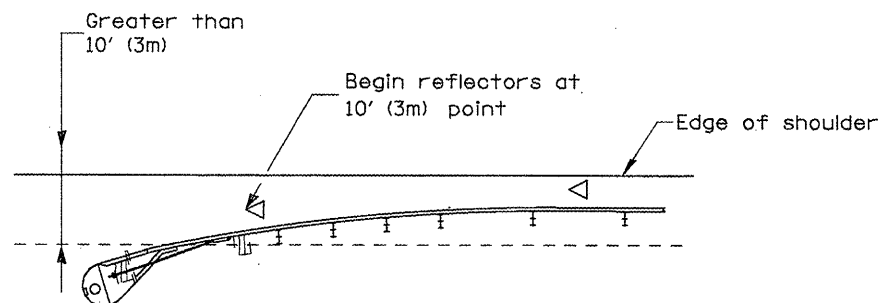
③ Bidirectional silver/silver should be used in lieu of monodirectional silver on both sides of two-lane bridges where the bridge pavement is less than 24 (610) wider than the pavement approaching the bridge.

**TWO-WAY TRAFFIC**

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

**LEGEND**

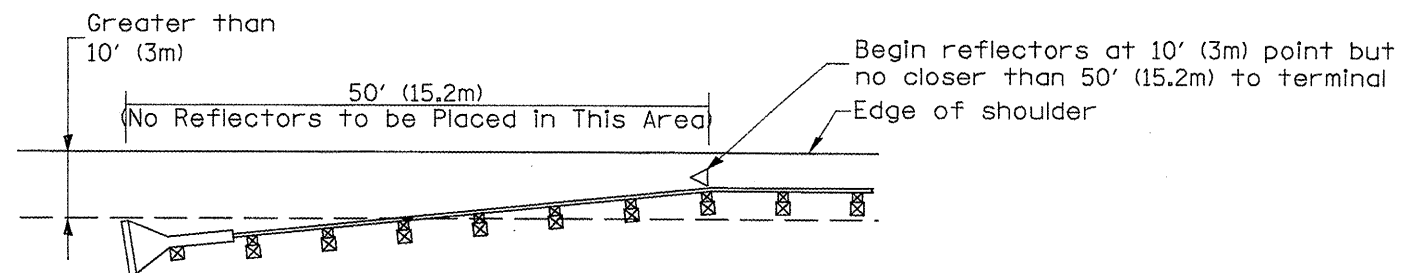
- ◁ Monodirectional silver
- ◄ Monodirectional amber
- ◄ Terminal Marker - Black/Yellow  
Left or Right as appropriate



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.

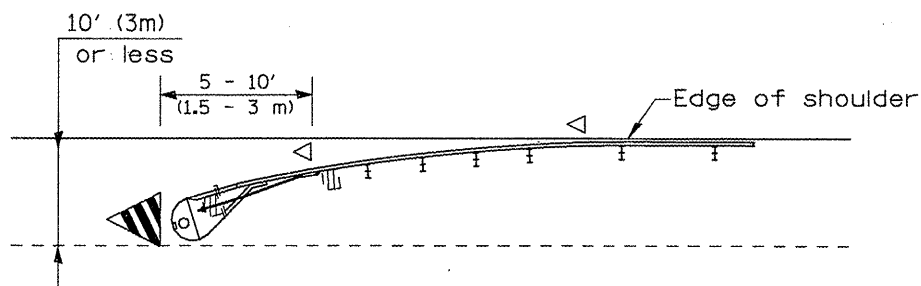
**Traffic Barrier Terminal Type(\*) and/or Turned-Down Terminal**

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



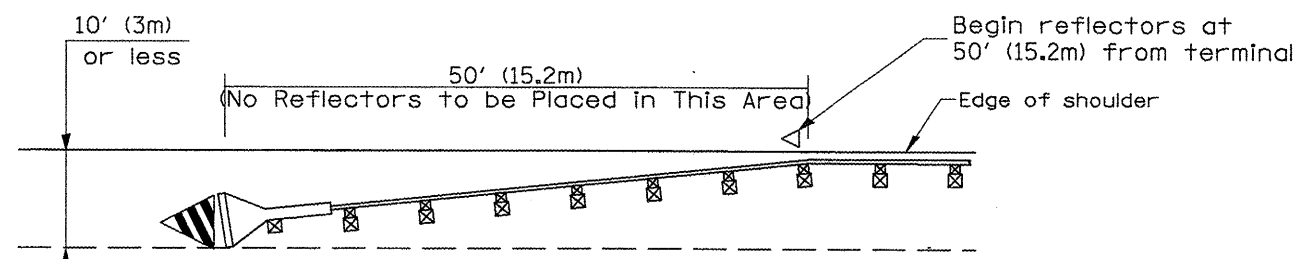
NOTE: Omit terminal marker when terminal over (10') from edge of paved shoulder or break point of unpaved shoulder.

**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**

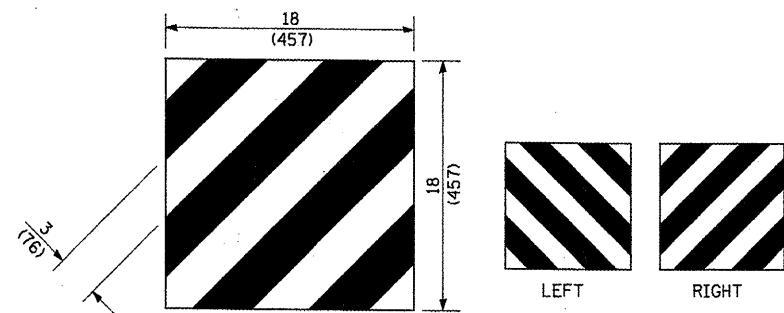
All dimensions are in inches (millimeters) unless otherwise noted.

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.

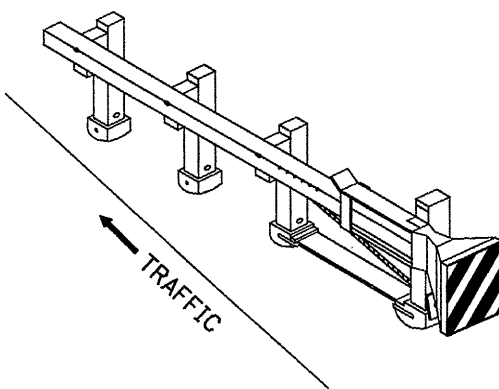
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**GUARDRAIL AND BARRIER WALL DELINEATION**  
NOT TO SCALE

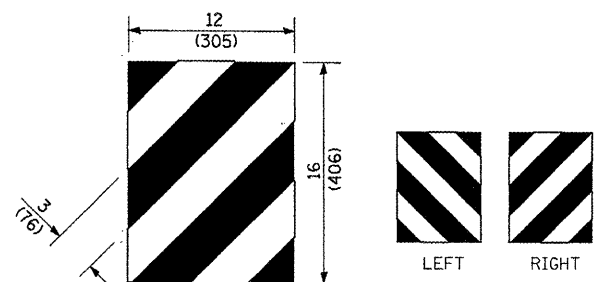
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
698 649	123RS-4,122,124RS-5,2RS-3,3RS-4	MARSHALL PUTNAM	40	35
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 68915	



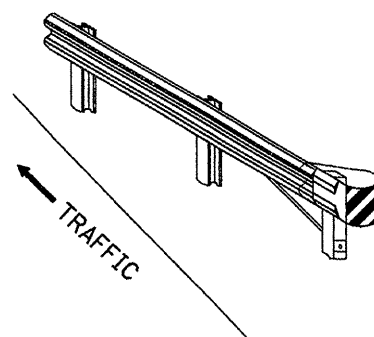
For Traffic Barrier Terminal Type 1 (Special)



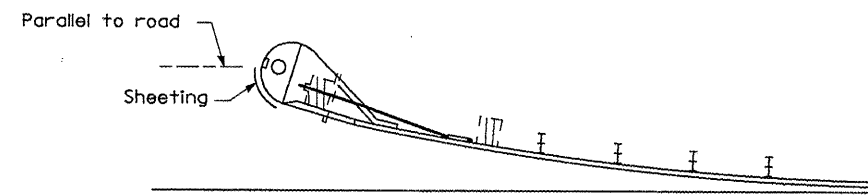
Standard Treatment - Direct Applied Sheeting  
Traffic Barrier Terminal Type 1 (Special)



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



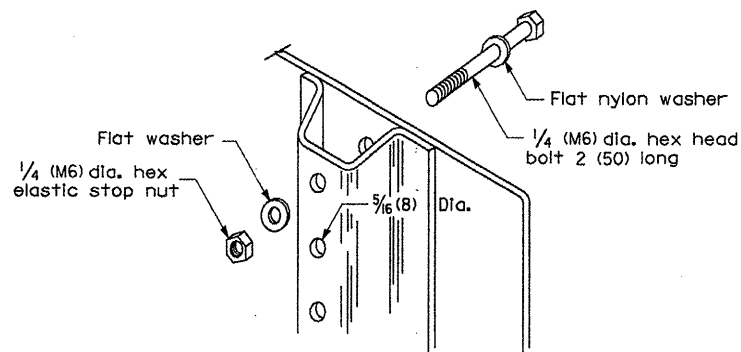
Standard Treatment - Direct Applied Sheeting  
Traffic Barrier Terminal Type (\*)  
\* See Plans for Type



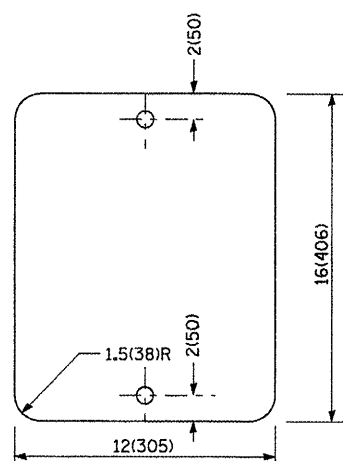
Sheeting Position for  
Traffic Barrier Terminal Type (\*)  
\* See Plans for Type

**TERMINAL MARKER DETAILS**

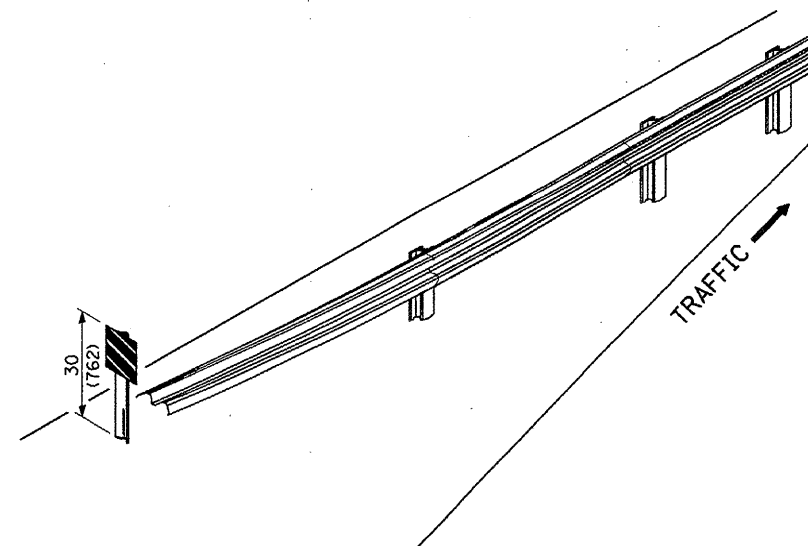
- Color: Black / Yellow reflectorized
- OM - I100 (L or R) Direct applied reflective sheeting
- OM - I200 (L or R) Post mounted



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**

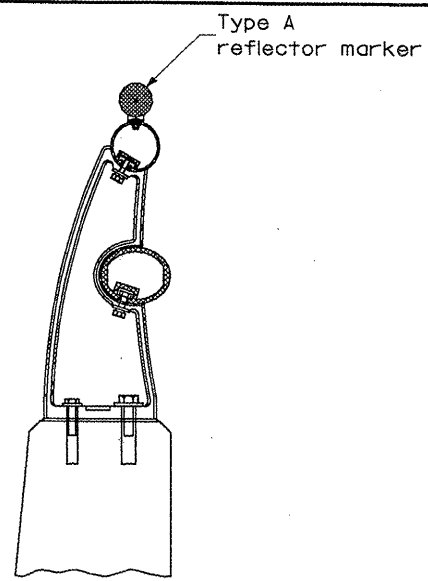
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

GUARDRAIL AND BARRIER WALL DELINEATION

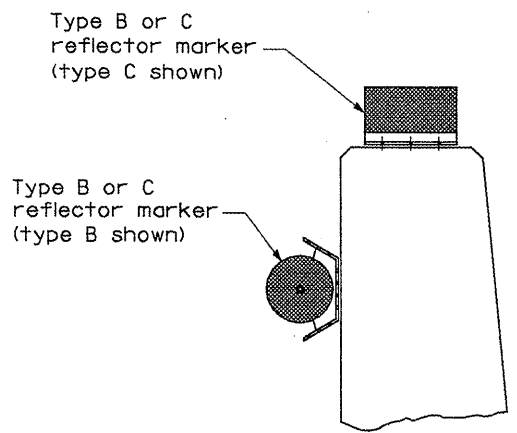
NOT TO SCALE

SHT. 2 OF 3  
CADD STD. 635101-D4

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
638 649	123RS-4,122,124RS-5,2RS-3,3RS-4	MARSHALL PUTNAM	40	36
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 68915	

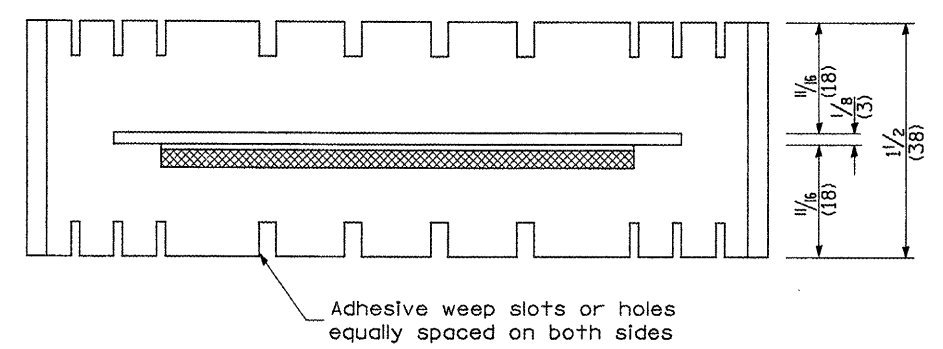


TYPICAL MOUNTING DETAIL FOR BRIDGE RAIL REFLECTOR

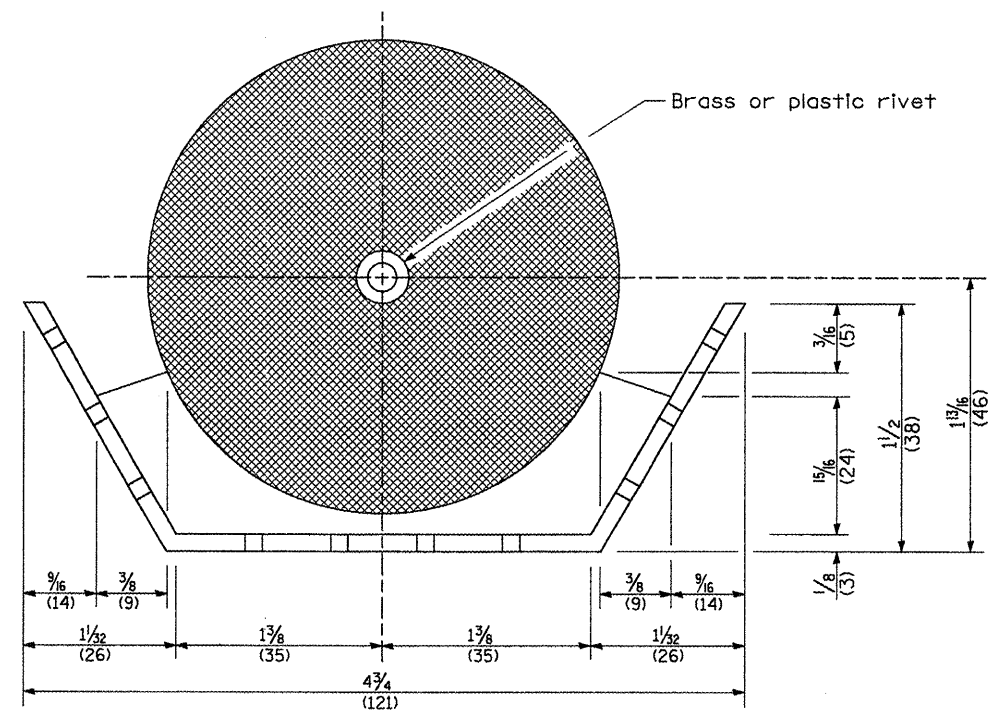


TYPICAL MOUNTING DETAIL FOR BARRIER WALL REFLECTOR

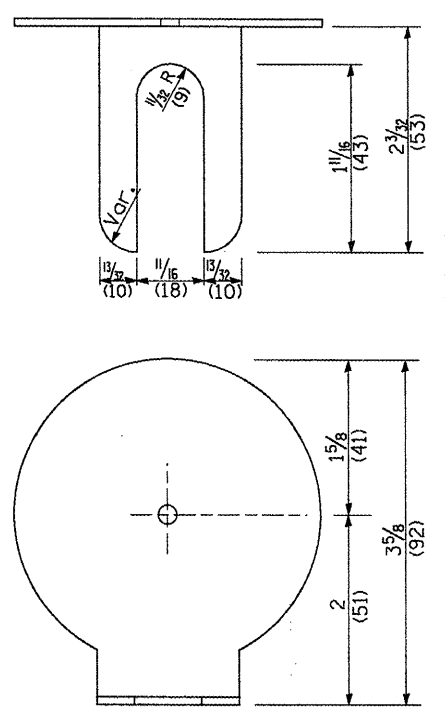
REFLECTOR MOUNTING



Adhesive weep slots or holes equally spaced on both sides

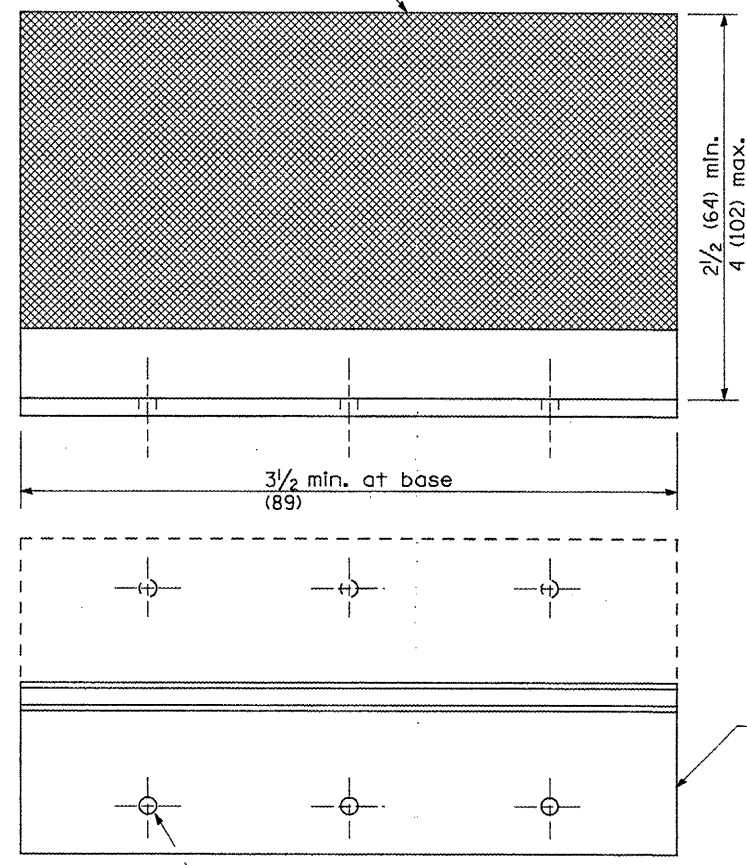


REFLECTOR MARKER TYPE B



REFLECTOR MARKER TYPE A

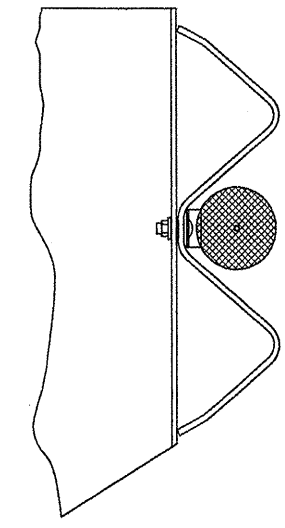
Min. reflective area 6 1/2 sq. in. (4,194 mm<sup>2</sup>) each side. May be rectangular or slight trapezoid.



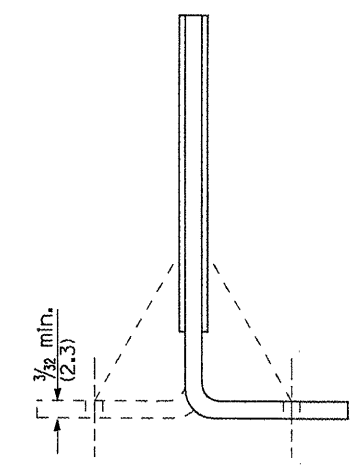
REFLECTOR MARKER TYPE C

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.

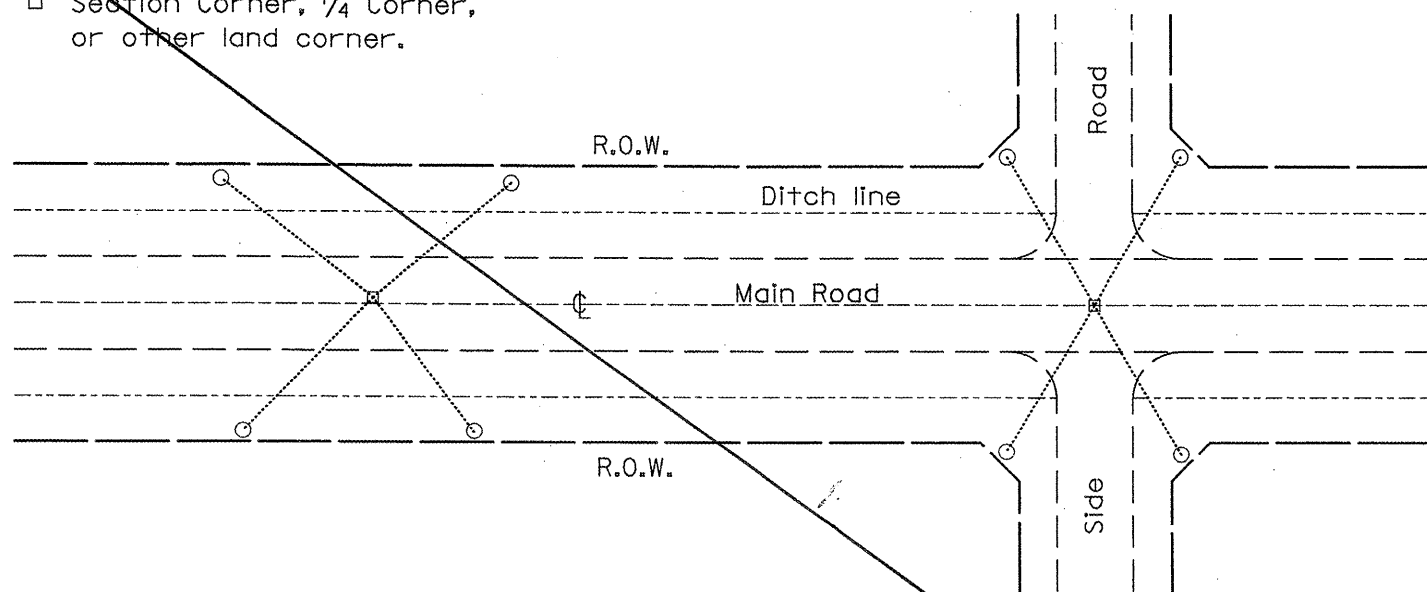
REFLECTORS

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

F.A.P. RTE. 695	SECTION 123R5-4, 122, 124R5-5, 2R5-3, 3R5-4	COUNTY MARSHALL PUTNAM	TOTAL SHEETS 40	SHEET NO. 37
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT			CONTRACT NO. 68915	

**PERMANENT SURVEY TIES**

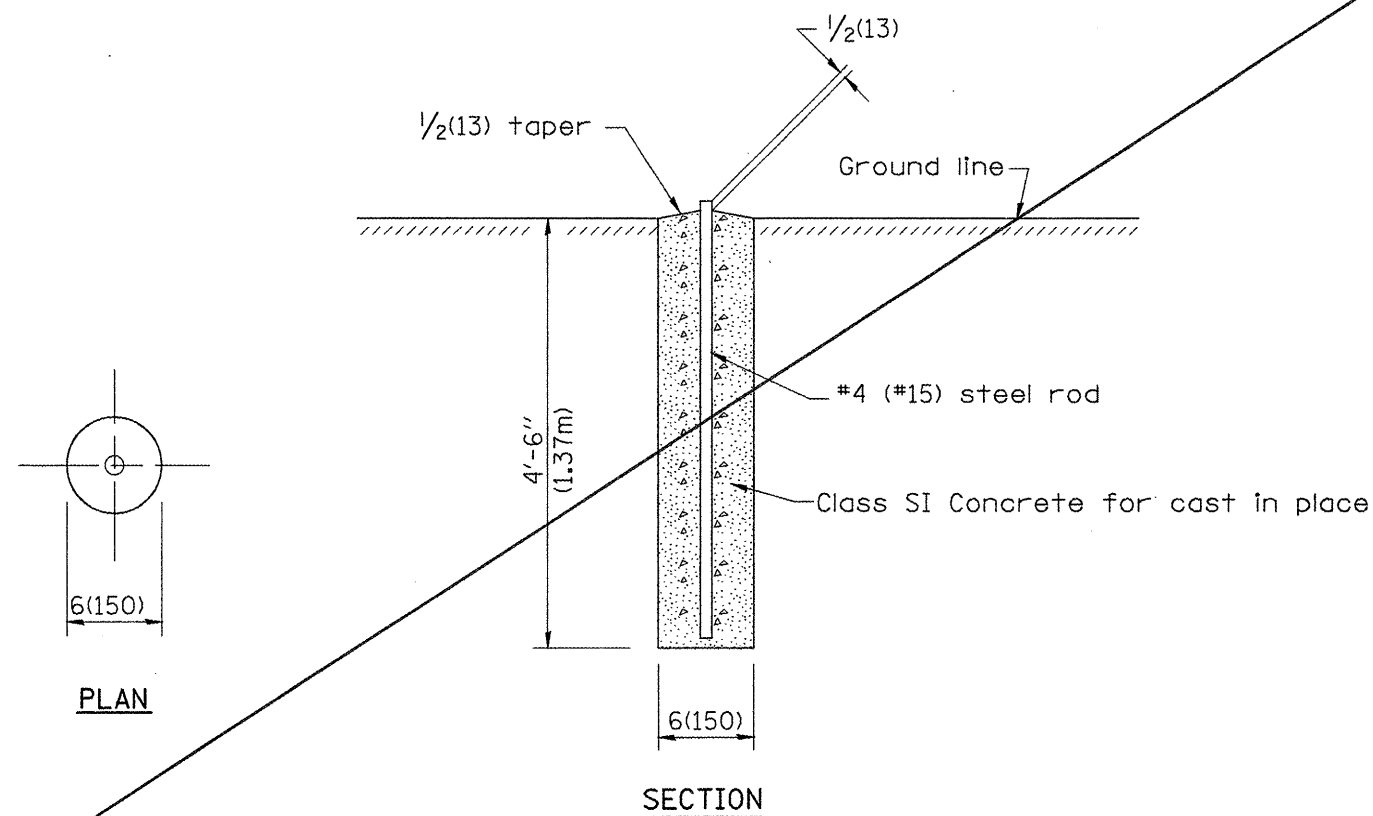
- Permanent Survey Tie
- Section Corner, 1/4 Corner, or other land corner.



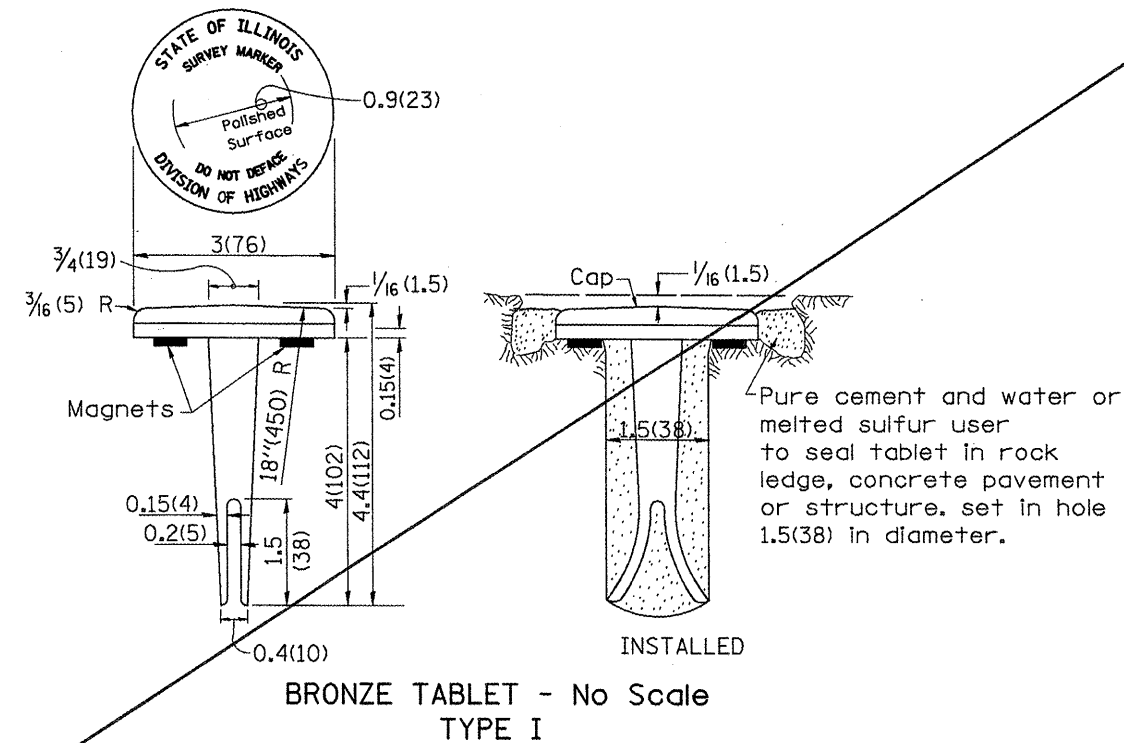
**TYPICAL APPLICATION**

**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.



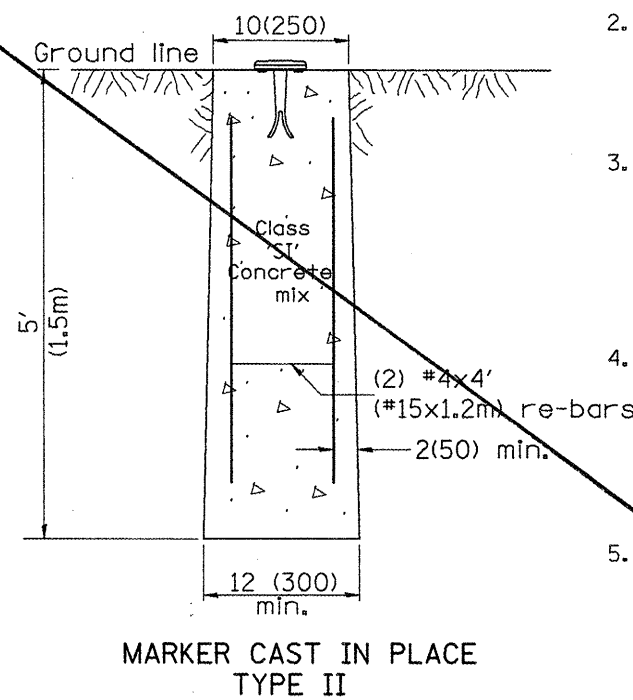
**PERMANENT SURVEY MARKERS**



**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.

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

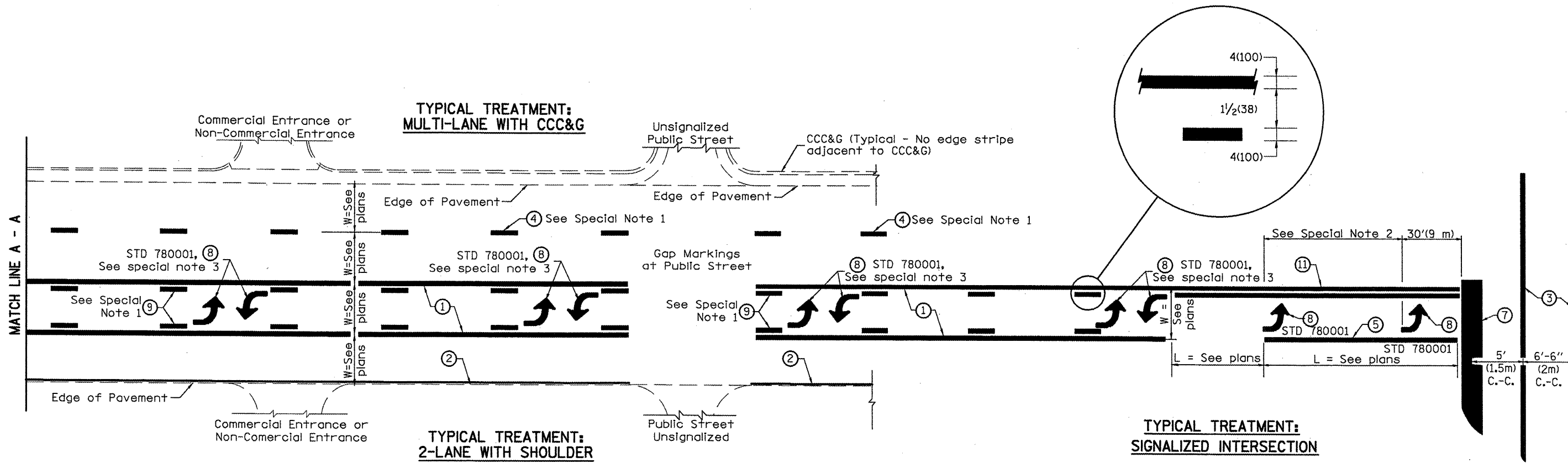
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**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.
698 649	123RS-4,1122,123RS-5,2RS-3,3RS-4	MARSHALL PUTNAM	40	38
CONTRACT NO. 68915			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT	



**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) in C.-C. (White)  
2-8(200) Crosswalk @ 6'-6" (2m) in 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	J.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.		

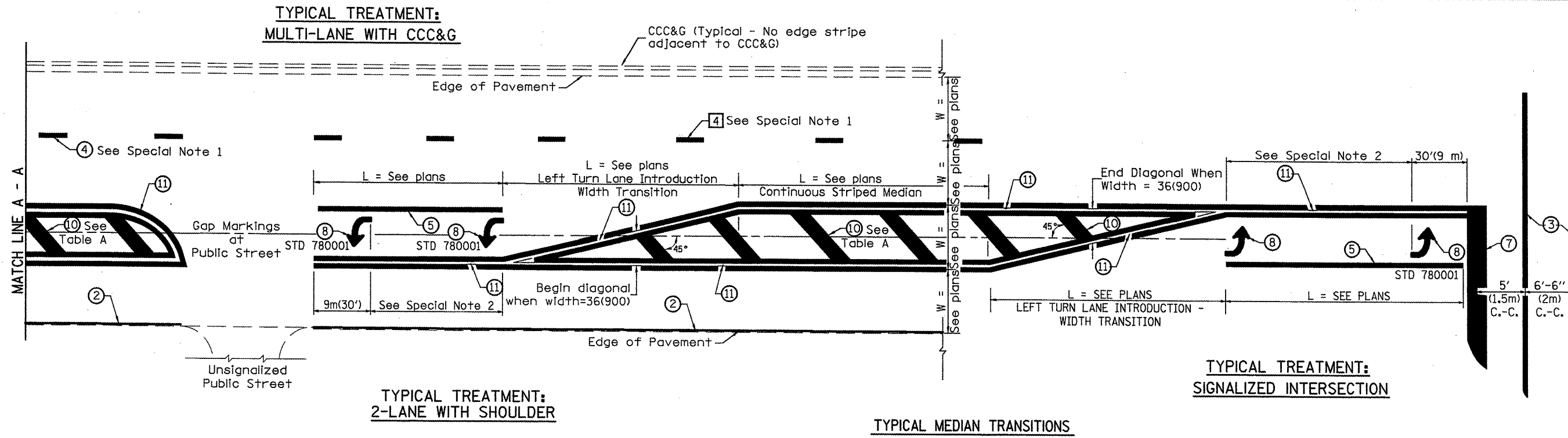
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TYPICAL PAVEMENT MARKINGS**

NOT TO SCALE

SHT. 1 OF 2  
CADD STD. 780001-D4

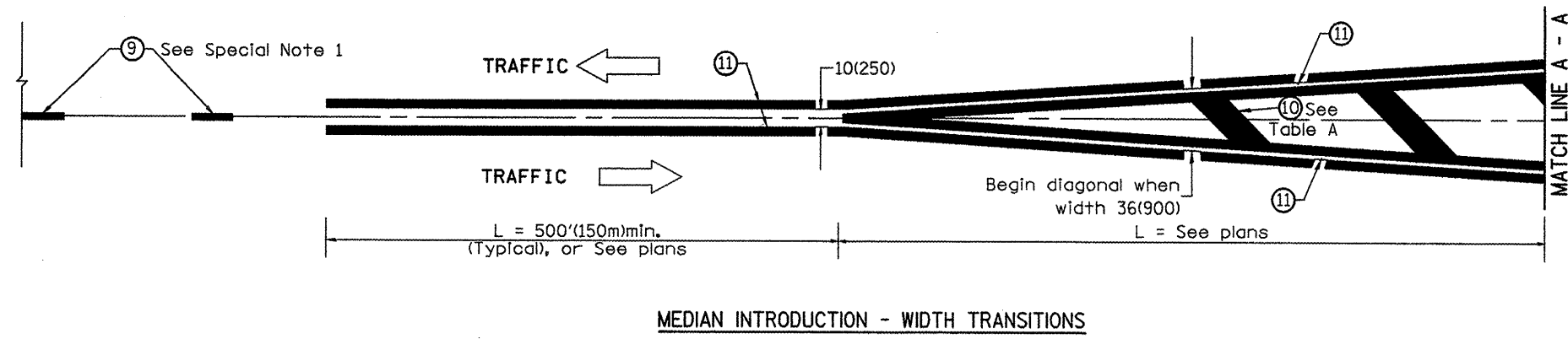
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
698 649	123RS-4,122,124RS-5,2RS-3,3RS-4	MARSHALL PUTNAM	40	39
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT			CONTRACT NO. 68915	



**FLUSH PAVED MEDIAN: RESTRICTED LEFT TURN LANE**

**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)



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