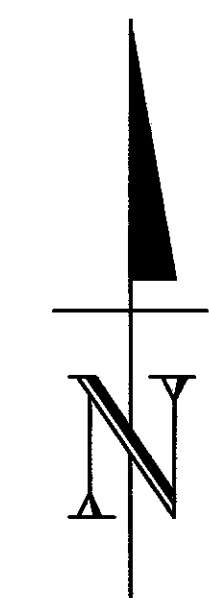


STATE OF NEBRASKA
DEPARTMENT OF ROADS

PLANS FOR CONSTRUCTION

HWY. 75 JCT. N-36 NORTH
DOUGLAS & WASHINGTON COUNTIES

PROJECT NO.	SHEET NO.
AFE-B003	1
▲ CONTRACT I.D. M2TLOC	
▲ CONTRACT I.D.	
■ CONTRACT I.D.	



THE 2007 EDITION OF THE NEBRASKA STANDARD SPECIFICATIONS AND THE SPECIAL PROVISIONS APPLY TO THIS PROJECT.

INDEX OF SHEETS

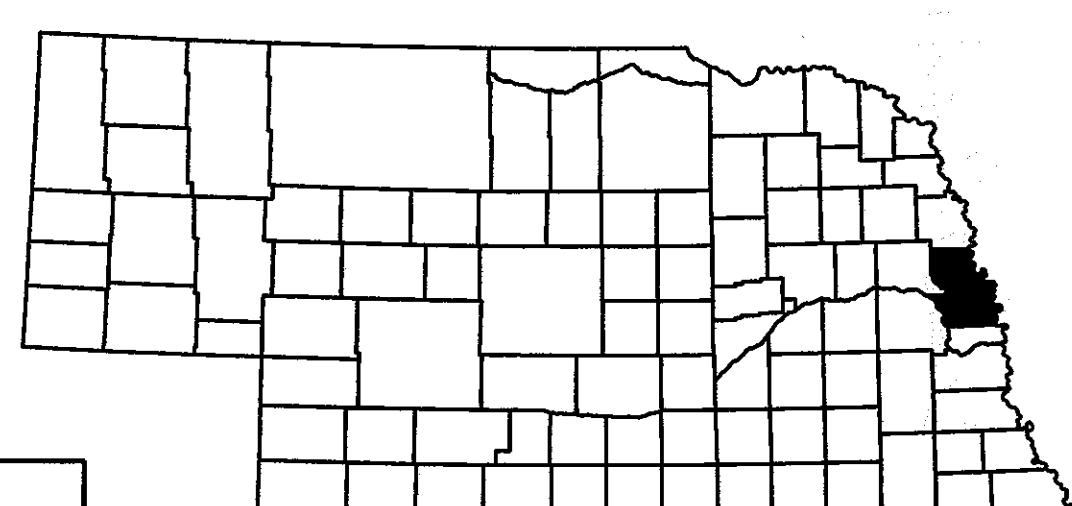
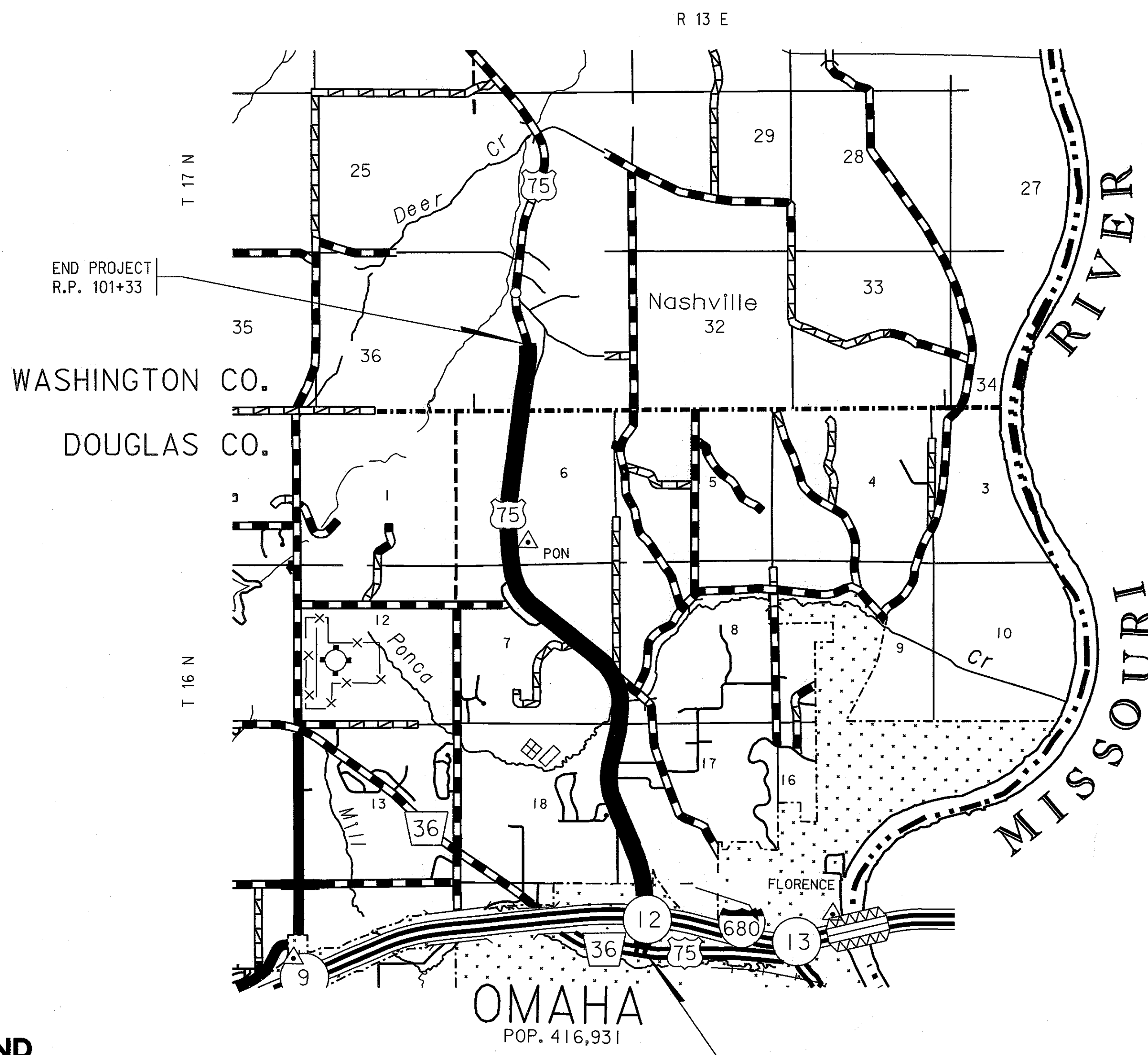
SHEET NO.	TITLE
1	TITLE PAGE
2-5	SUMMARY OF QUANTITIES & TYPICAL CROSS SECTION
3	TEMPORARY PAVEMENT MARKING PLAN
4	PAVEMENT MARKING DETAILS
5 - 6	LANE CLOSURE PLAN FOR MULTILANE ROADWAYS

STANDARD PLANS

920-R5	(2 SHEETS) TRAFFIC CONTROL, CONSTRUCTION AND MAINTENANCE
922-R8	(2 SHEETS) TRAFFIC CONTROL FOR ASPHALT SURFACING

THE WORK ON THIS PROJECT CONSISTS OF GROUPS	
9-BITUMINOUS	
▲ GROUPS 9	ARE INCLUDED
IN THE LETTING OF APRIL 17, 2014	
▲ GROUPS	ARE INCLUDED
IN THE LETTING OF	
■ GROUPS	ARE INCLUDED
IN THE LETTING OF	

DESIGN DESIGNATION
MAINTENANCE
TRAFFIC
YEAR: 2014
ADT: 9425



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 Computer: DRDESIGN188

CONVENTIONAL SIGNS

FENCE R.O.W. OR WIRE	
GUARDRAIL	
TRAVELED WAY	
DIKE	
CULVERT	
POWER POLE	
TELEPHONE POLE	
MAILBOX	
RAILROAD TRACKS	
MARSH	
TREE - CONIFEROUS	
TREE - DECIDUOUS	

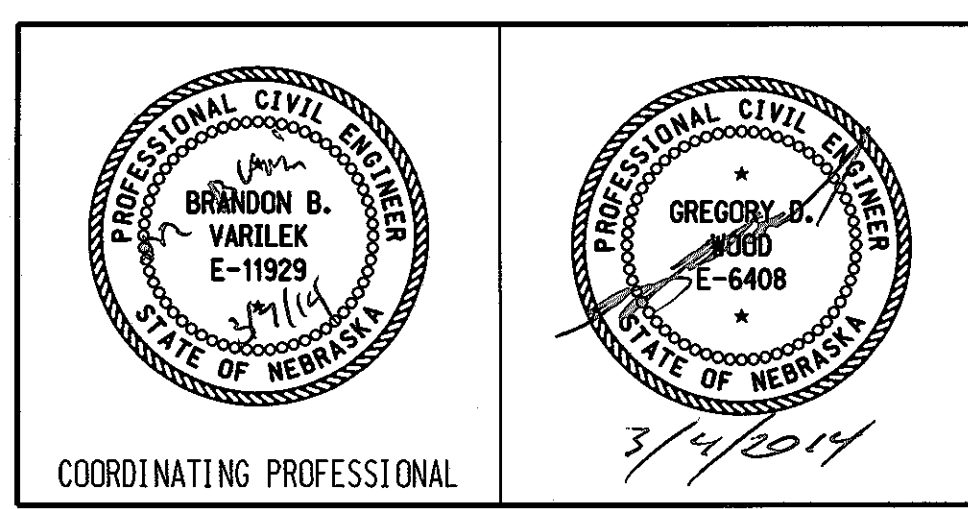
R.O.W. LEGEND

NEW CONTROLLED ACCESS	
PREVIOUS CONTROLLED ACCESS	
LIMITS OF CONSTRUCTION	
PREVIOUS R.O.W.	
NEW R.O.W.	
EXISTING PERMANENT EASEMENT	
TEMPORARY EASEMENT	
EXCESS TAKING	
PERMANENT EASEMENT	
EXISTING RAILROAD EASEMENT	
NEW RAILROAD PERMANENT EASEMENT	
NEW RAILROAD TEMPORARY EASEMENT	

REFERENCE POST NO. 97+42 TO REFERENCE POST NO. 101+33

EXCEPTIONS: FROM STA. TO STA.

TOTAL NET LENGTH OF PROJECT: 20,645 FEET 3.91 MILES



SUMMARY OF QUANTITIES

PROJECT NO.	SHEET NO.
AFE-B003	2-S

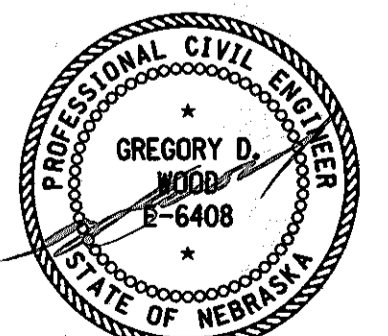
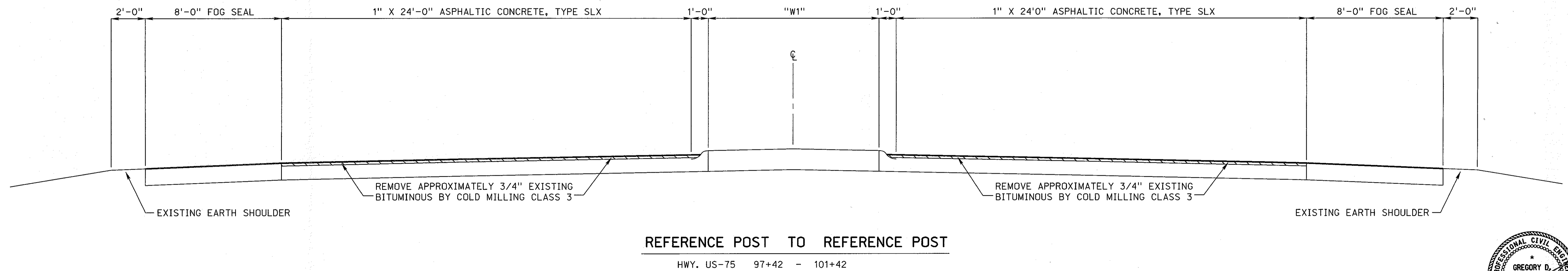
CONTRACT I.D. M2TLOC

BITUMINOUS SURFACING ITEMS GROUP 9

ITEM	QUANTITY	UNITS
BARRICADE, TYPE II	4,400.000	BDAY
BARRICADE, TYPE III	130.000	BDAY
TEMPORARY SIGN DAY	440.000	EACH
SIGN DAY	540.000	EACH
OVERLAY BROKEN LINES	413.000	STA
OVERLAY SOLID LINES	826.000	STA
FLASHING ARROW PANEL	22.000	DAY
MOBILIZATION	1.000	LS
ONLY, PREFORMED PAVEMENT MARKING	2.000	EACH
ARROW, PREFORMED PAVEMENT MARKING	4.000	EACH
HYDRATED LIME/WARM MIX ASPHALT	6,360.000	EACH
ASPHALTIC CONCRETE, TYPE SLX	6,260.000	TON
ASPHALTIC CONCRETE FOR PATCHING, TYPE SLX	100.000	TON
PERFORMANCE GRADED BINDER (64-34)	267.120	TON
TACK COAT	17,270.000	GAL
FOG SEAL	3,720.000	GAL
RENTAL OF LOADER, FULLY OPERATED	50.000	HOUR
RENTAL OF MOTOR GRADER, FULLY OPERATED	50.000	HOUR
RENTAL OF DUMP TRUCK, FULLY OPERATED	50.000	HOUR
RENTAL OF SKID LOADER, FULLY OPERATED	50.000	HOUR
COLD MILLING, CLASS 3	431.646	STA
RAP INCENTIVE PAYMENT	10,812.000	EACH
ASPHALT PAVEMENT SMOOTHNESS TESTING	1.000	LS

TYPES OF ASPHALTIC OIL TO BE USED
TACK COAT: SS-1, SS-1H, CSS-1, OR CSS-1H FOG SEAL: SS-1H, CSS-1H
PERFORMANCE GRADED BINDER
AASHTO DESIGNATION M320

TYPICAL CROSS SECTIONS



3/14/2014

CONSTRUCTION DIVISION

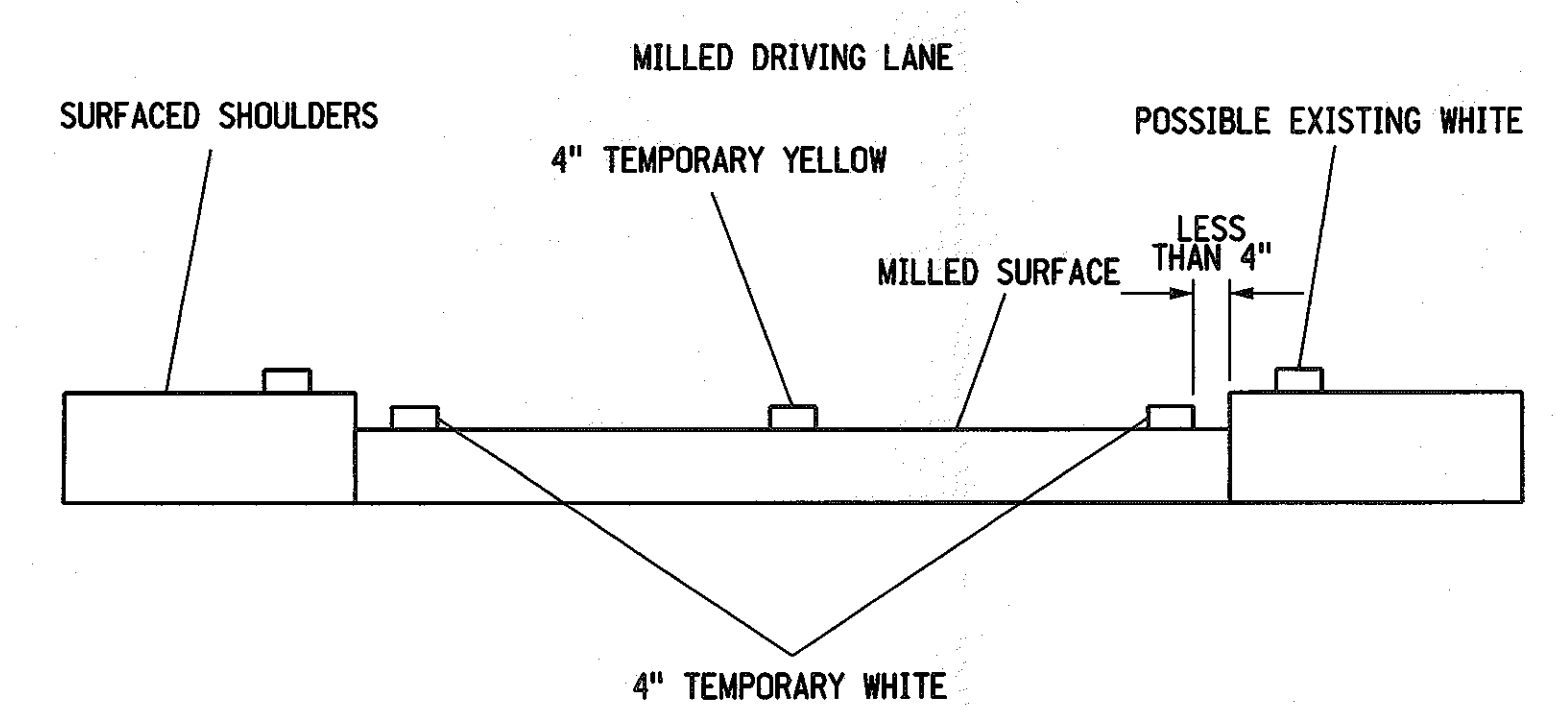
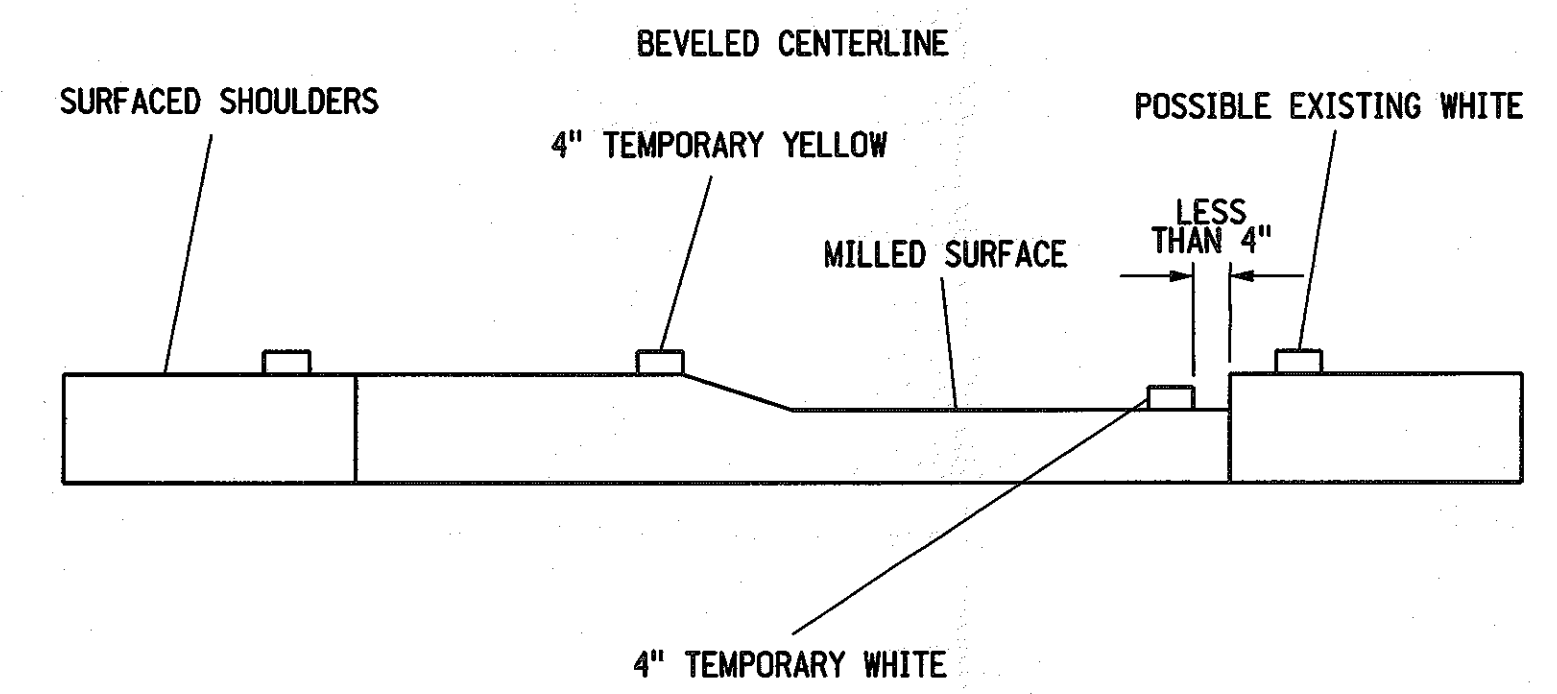
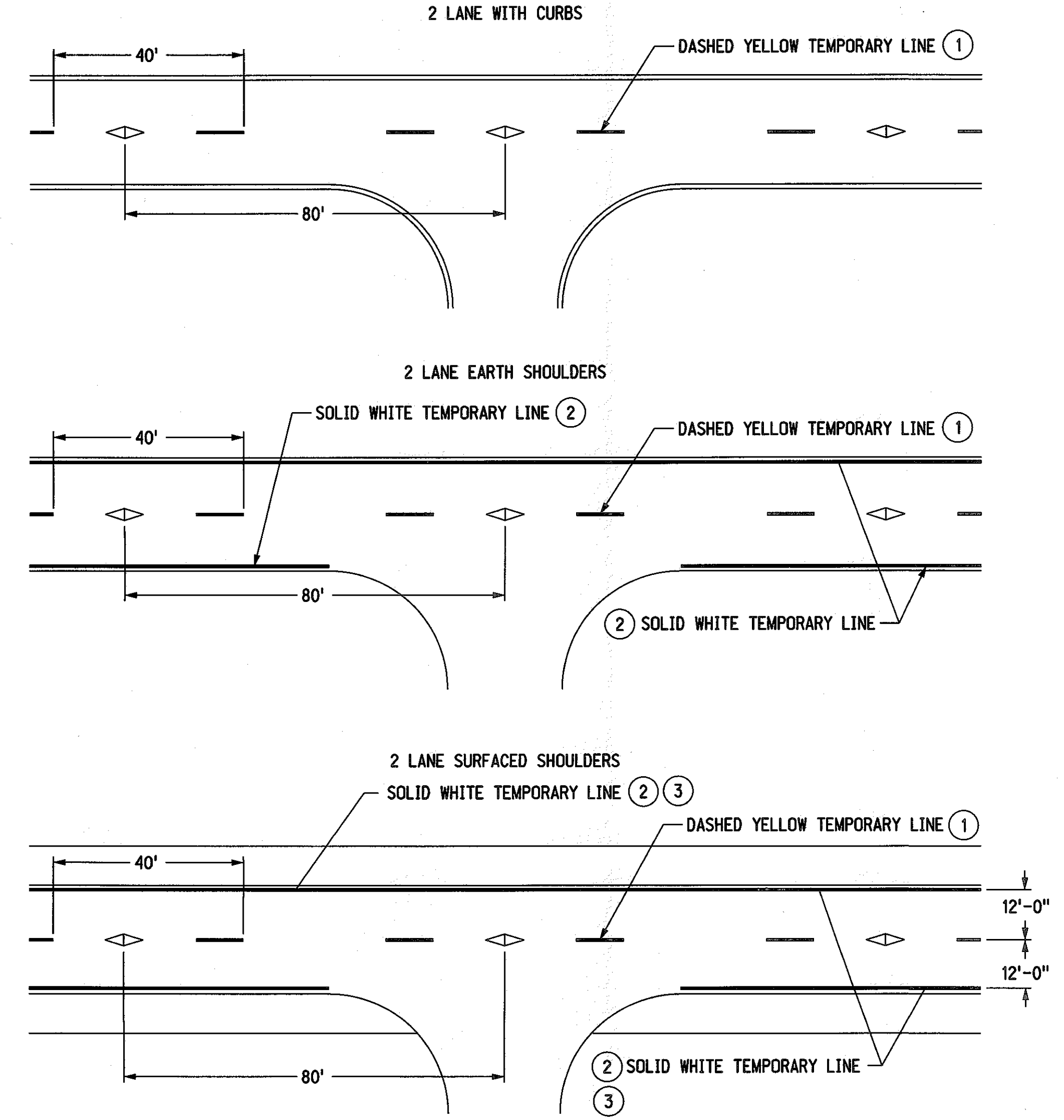
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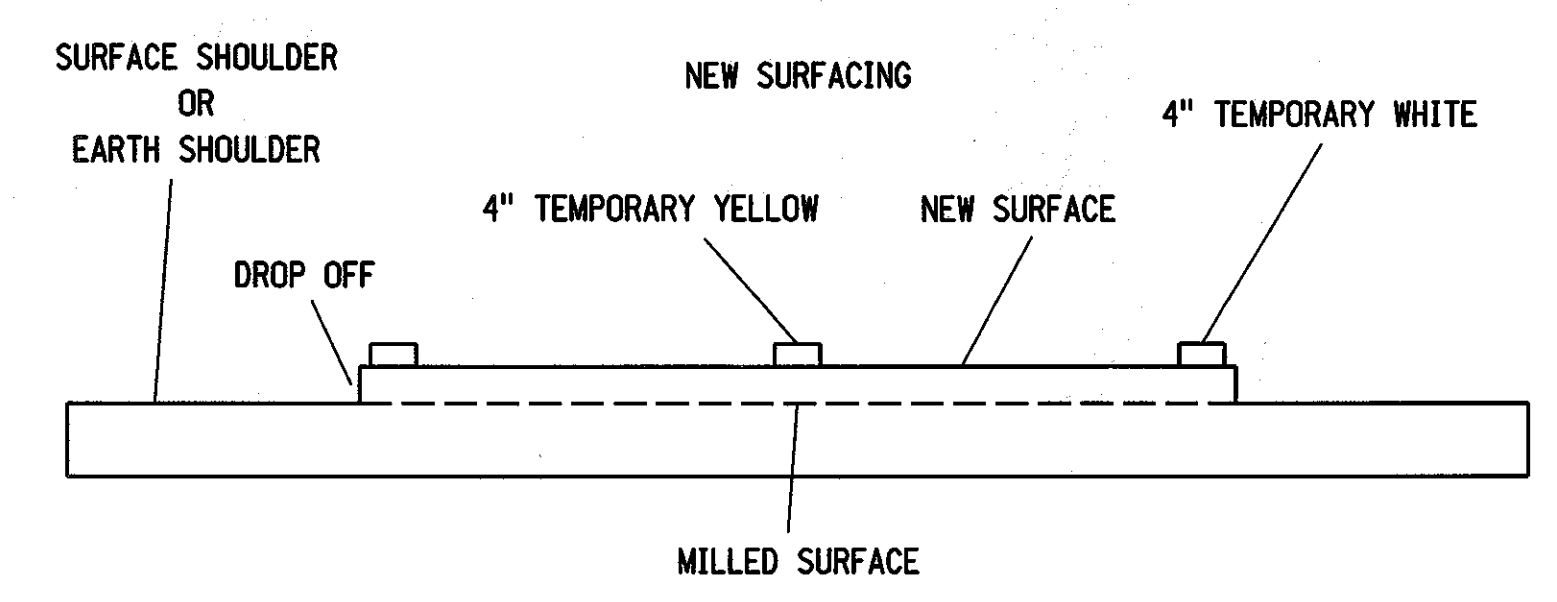
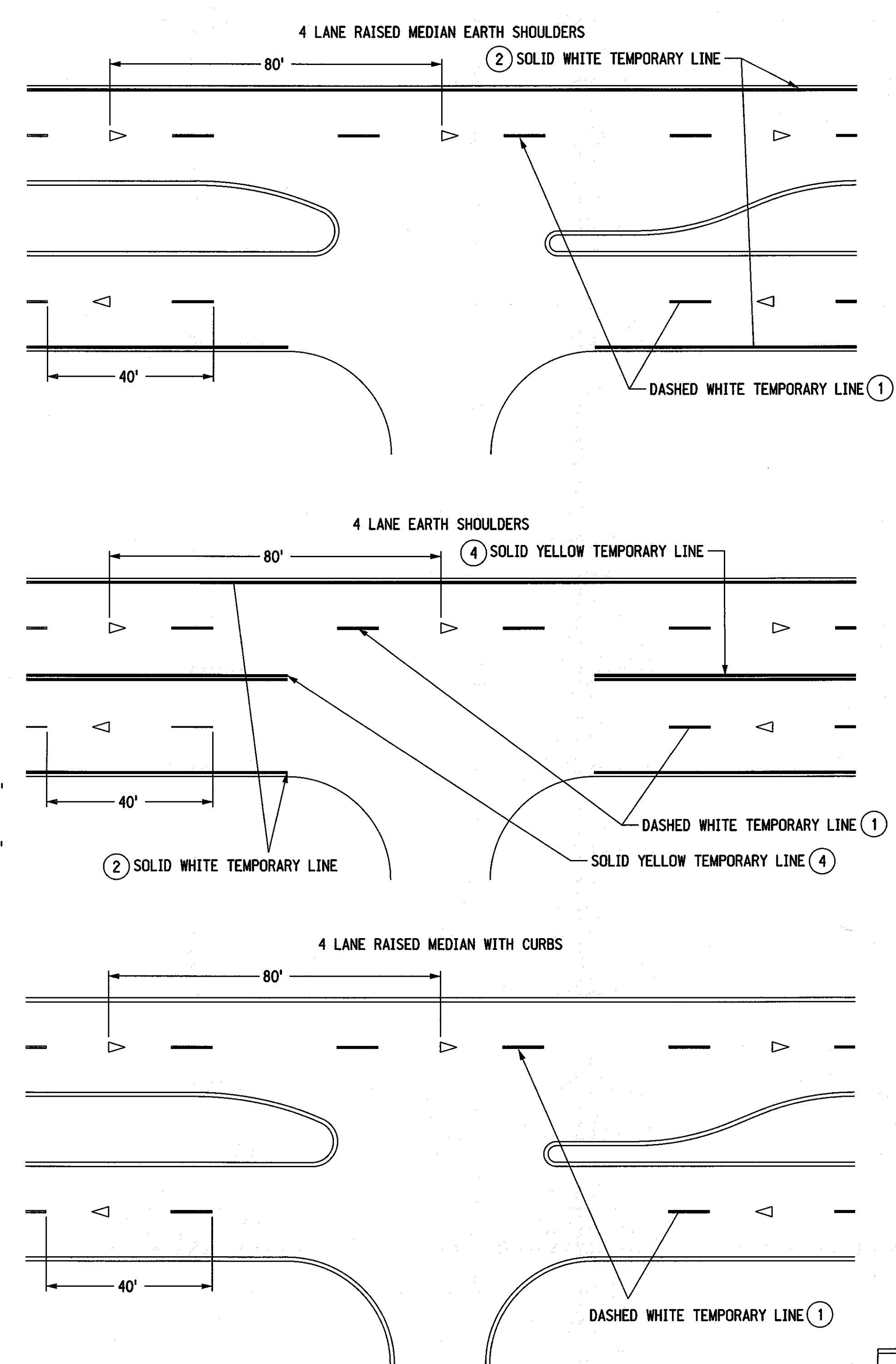
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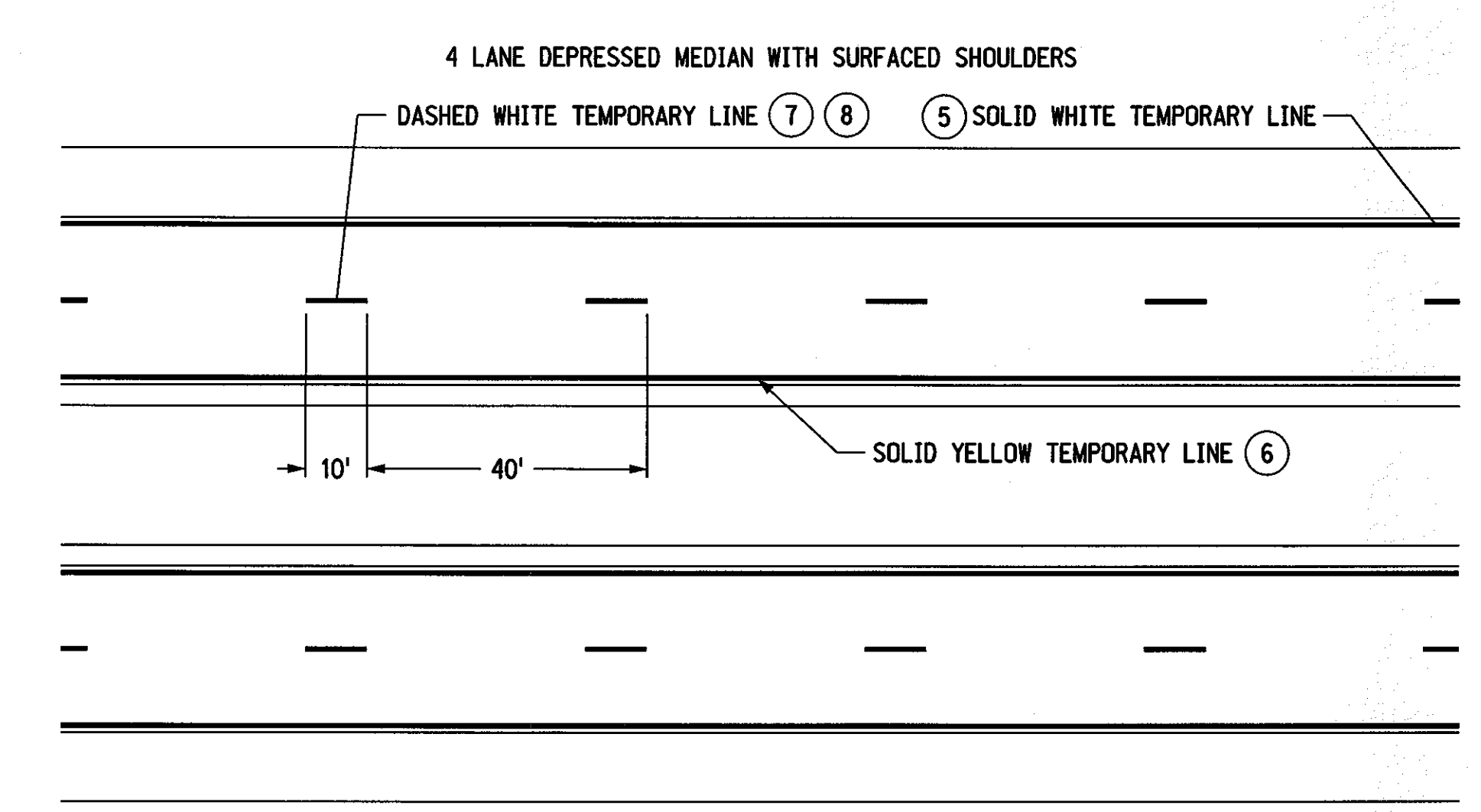
2 LANE ROADWAYS



4 LANE ROADWAYS



FREEWAY/RURAL EXPRESSWAY



NOTES

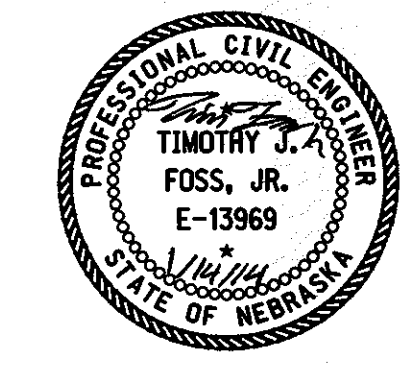
- LOWER LAYERS:** TEMPORARY DASHED LINE SHALL BE 4" X 10' PAINTED LINE AT 40' INTERVALS OR 4" X 4' TYPE I TAPE LINE AT 40' INTERVALS. TAPE OR PAINT WILL BE SUPPLEMENTED WITH AN OVERLAY MARKER EVERY 80 FEET.
- OVERLAY MARKERS ARE NOT REQUIRED ON MILLED SURFACES, HYDRATED LIME SURFACES AND STABILIZED SURFACES.
- TOP LAYER:** BROKEN LINE MARKINGS
- INSTALL 4" X 4' TAPE AT 40' INTERVALS SUPPLEMENTED WITH AN OVERLAY MARKER EVERY 80 FEET.
- OR USE NO TAPE, BUT INSTALL 2 RAISED PAVEMENT MARKERS SPACED 5' APART AT 40' INTERVALS.
SOLID LINE MARKINGS
- 4" WIDE PAINTED LINE OR PAVEMENT MARKING TAPE. RAISED PAVEMENT MARKERS MAY BE USED IN LIEU OF PAINT OR TAPE, INSTALLED AT 10' INTERVALS.
- ARMOR COATS FOG SEALS:** 2 OVERLAY MARKERS 5' APART, PER 40 FOOT CYCLE (NO PAINT OR TAPE).
- TEMPORARY SOLID LINE SHALL BE 4" WIDE PAINTED LINE.
- EDGE LINE SHALL BE PLACED SO THAT THE OUTSIDE EDGE OF PAINT IS THE REQUIRED DISTANCE FROM CENTERLINE ON THE TOP LIFT
- TEMPORARY CENTERLINE SHALL BE TWO 4" PAINTED LINES SPACED 4" APART, CENTERED ABOUT THE JOINT LINE.
- EDGE LINE SHALL BE 4" PAINTED LINE. PLACED TO THE LEFT OF JOINT LINE.
- ALL LAYERS:** EDGE LINE SHALL BE PLACED 12'-0" FROM THE CENTER JOINT LINE. (RIGHT OF SHOULDER JOINT LINE WHEN APPLICABLE)
- MILLED SURFACE OR LOWER LIFTS: THE TEMPORARY WHITE DASH LINE SHALL BE 4" X 10' MINIMUM PAINTED LINE AT 40' INTERVALS, PLACED TO THE LEFT OF THE JOINT LINE.
- TOP LIFT:** THE TEMPORARY WHITE DASH LINE SHALL BE 4" IN WIDTH X MINIMUM 8' TO MAXIMUM 10' LENGTH, PLACED 2" TO THE LEFT OF THE JOINT LINE. THE INTERVAL (CYCLE) SHALL BE 40' ± 2" TO ALLOW FOR THE PERMANENT PAVEMENT MARKING.
- ALL TEMPORARY PAVEMENT MARKING THAT WILL BE COVERED BY PERMANENT PAVEMENT MARKING SHALL COMPLY WITH THE ALIGNMENT AND LOCATION REQUIREMENTS OF THE FINAL PAVEMENT MARKING MATERIAL. TEMPORARY PAVEMENT MARKINGS THAT ARE NOT COVERED BY THE PERMANENT MARKINGS SHALL BE REMOVED AT THE CONTRACTOR'S EXPENSE.

ROADWAY WIDTH	SHOULDER TYPE	DISTANCE FROM 1/2 OF ROADWAY TO OUTSIDE EDGE OF PAVEMENT
LESS THAN 24'	SURFACED	EDGE OF LANE
LESS THAN 24'	EARTH	PAVEMENT EDGE
24'	EARTH	PAVEMENT EDGE
24'	SURFACED	12'-0" *
24' TO 28'	EARTH	12'-0" *

* SEE NOTE 3
CENTERLINE MARKING SHALL BE PLACED ON THE "SOUTH" SIDE OF THE CENTER JOINT ON EAST-WEST ROADS AND ON THE "EAST" SIDE OF THE CENTER JOINT ON NORTH-SOUTH ROADS

LEGEND

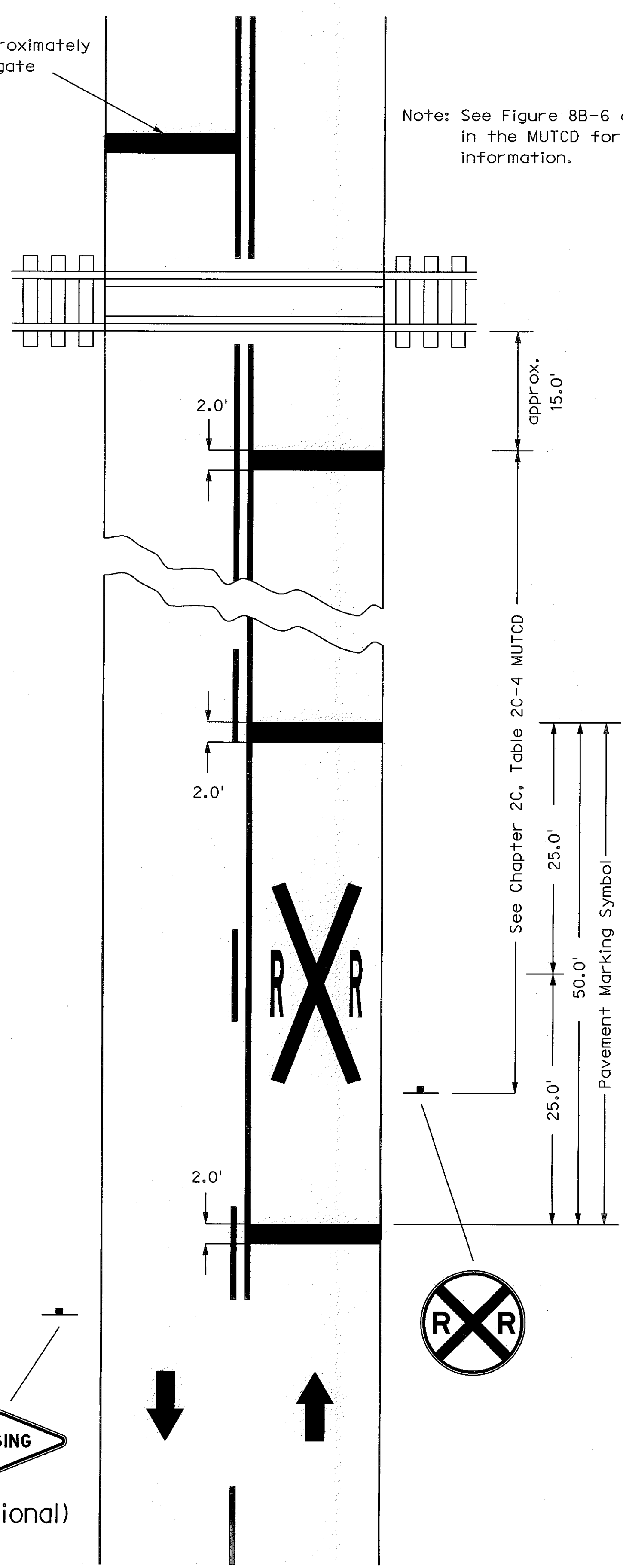
- ◁ OVERLAY MARKER
- ◁ BIDIRECTIONAL OVERLAY MARKER



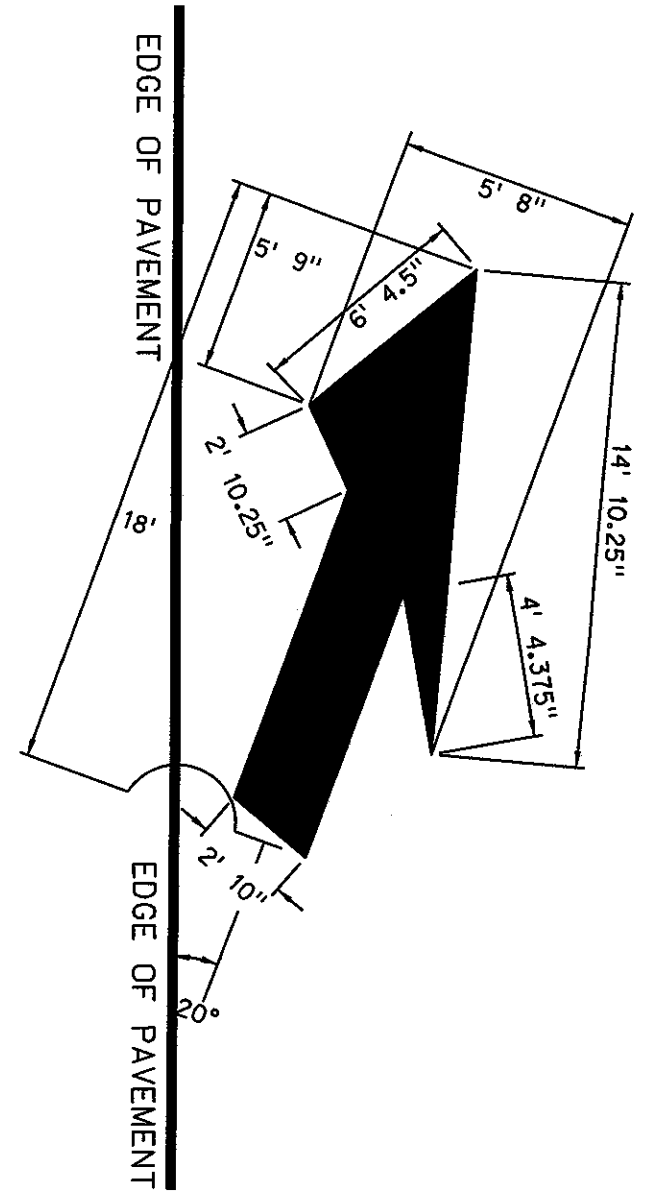
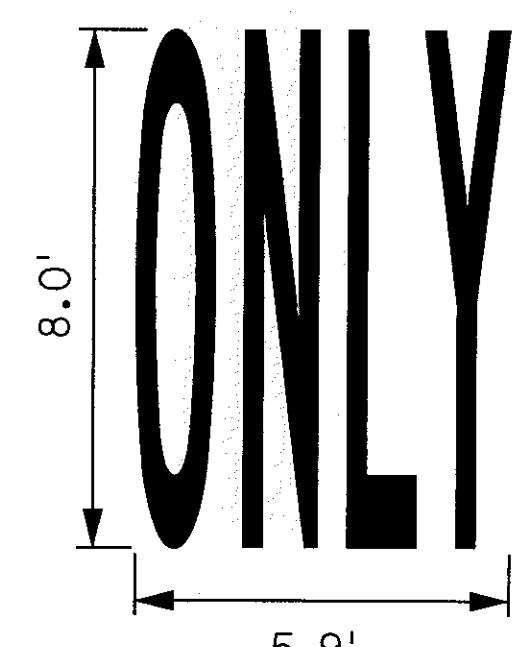
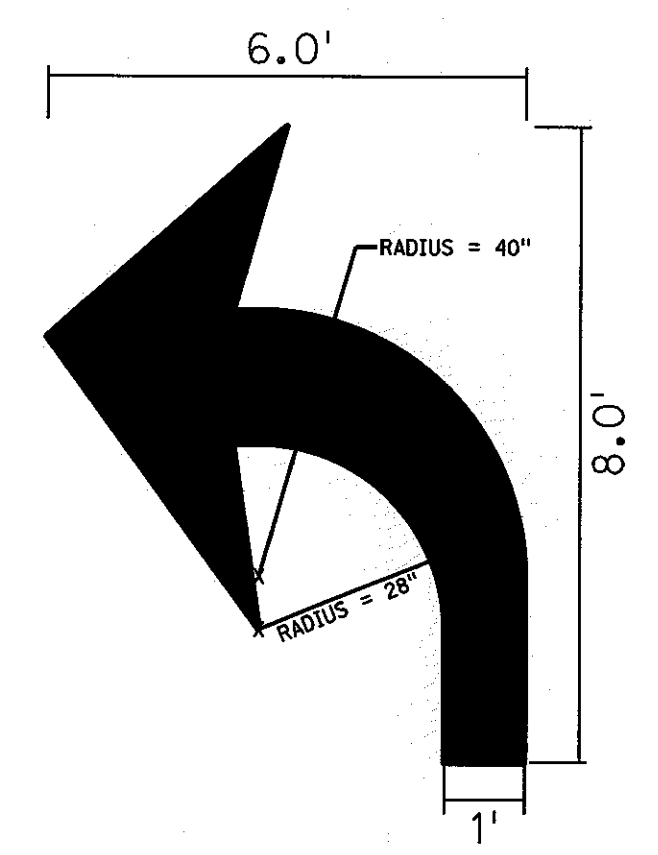
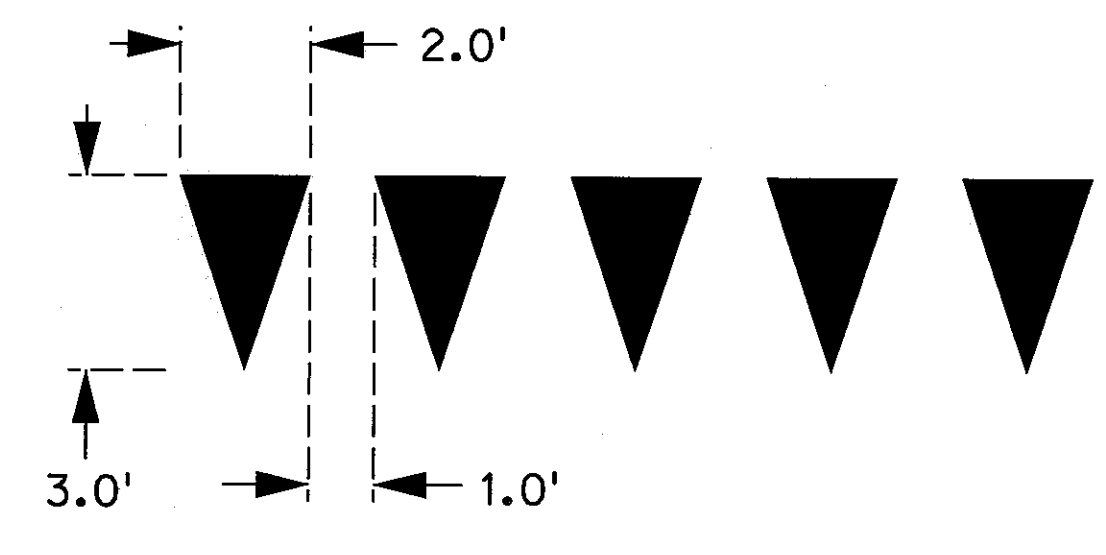
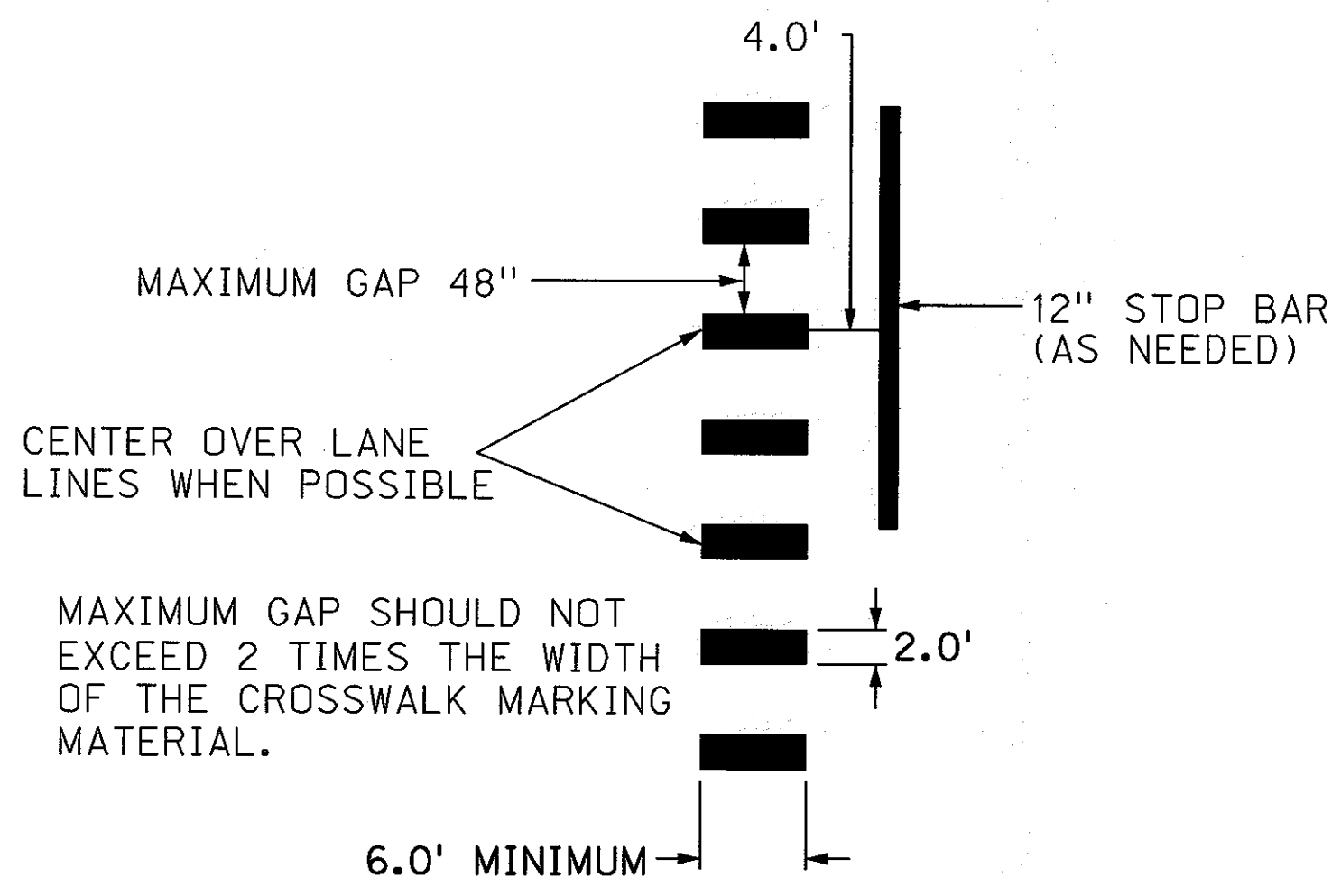
NEBRASKA DEPARTMENT OF ROADS TRAFFIC ENGINEERING DIVISION

DESIGNED	DV	TEMPORARY PAVEMENT MARKING PLAN	1/1
REVIEWED	MAN		
DATE DRAWN	8/06	TRAFFIC ENGINEER	DATE

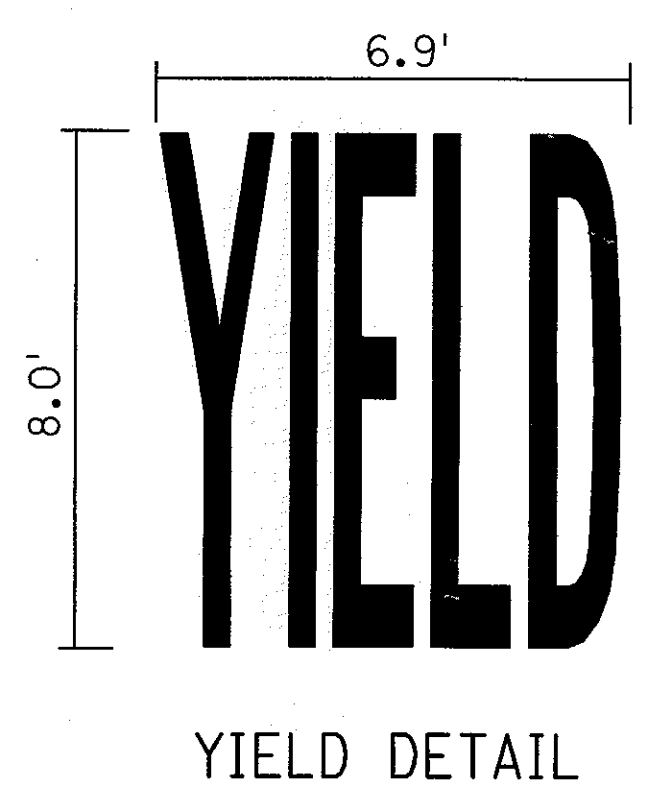
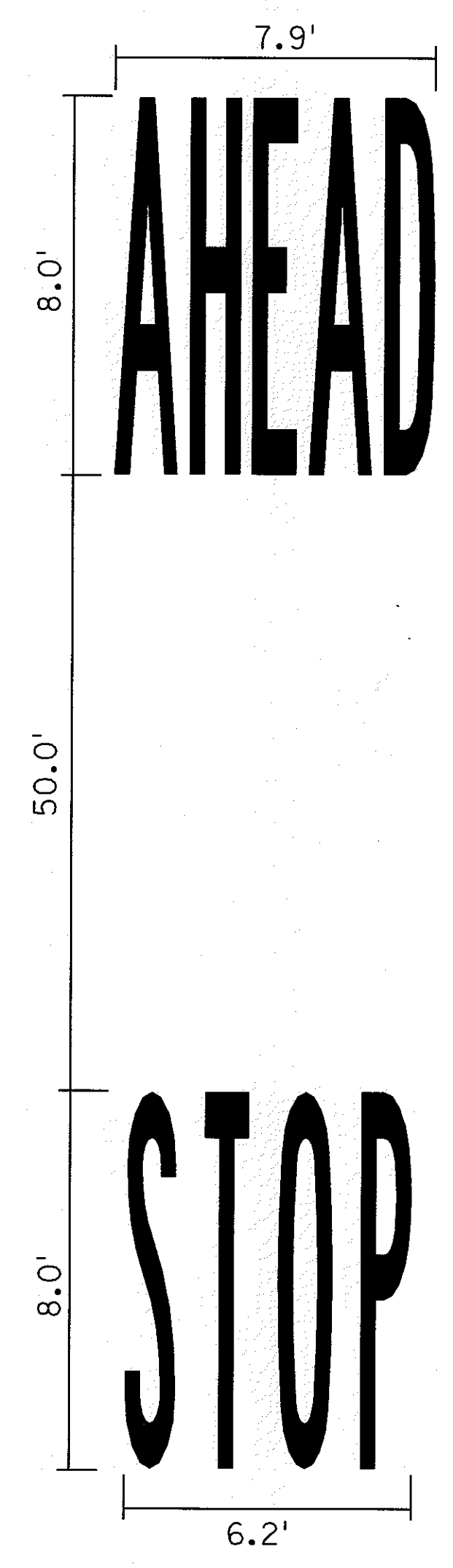
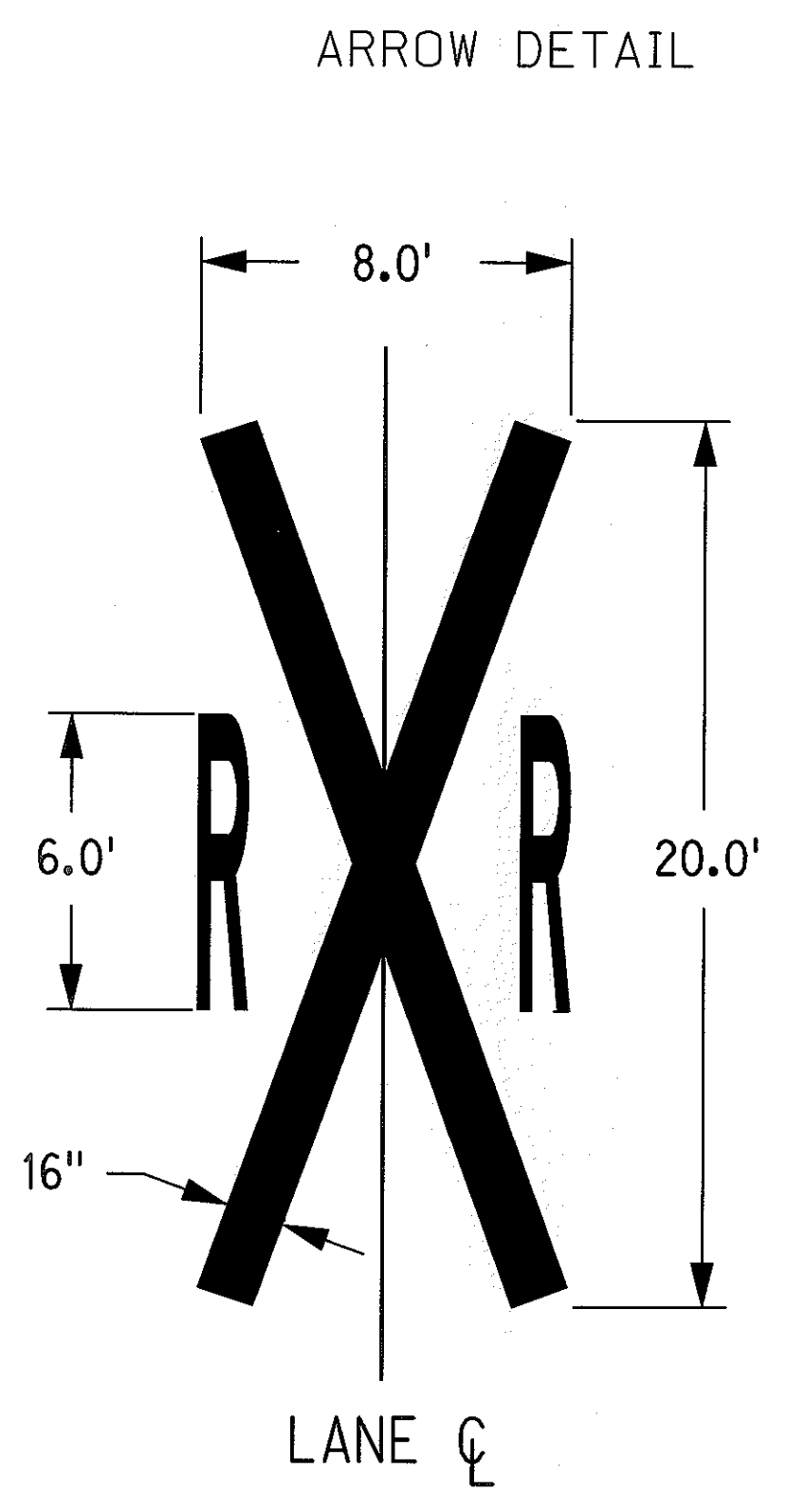
Stop line approximately 8.0 ft from gate (if present)



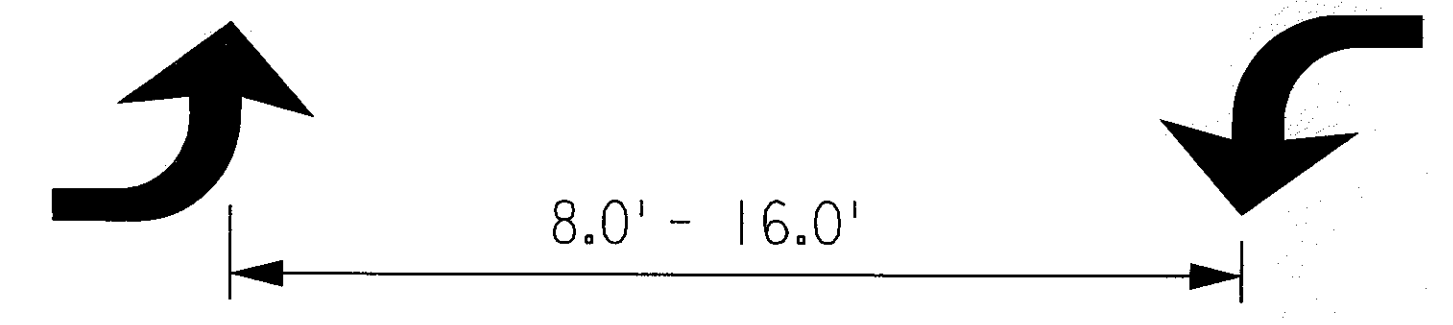
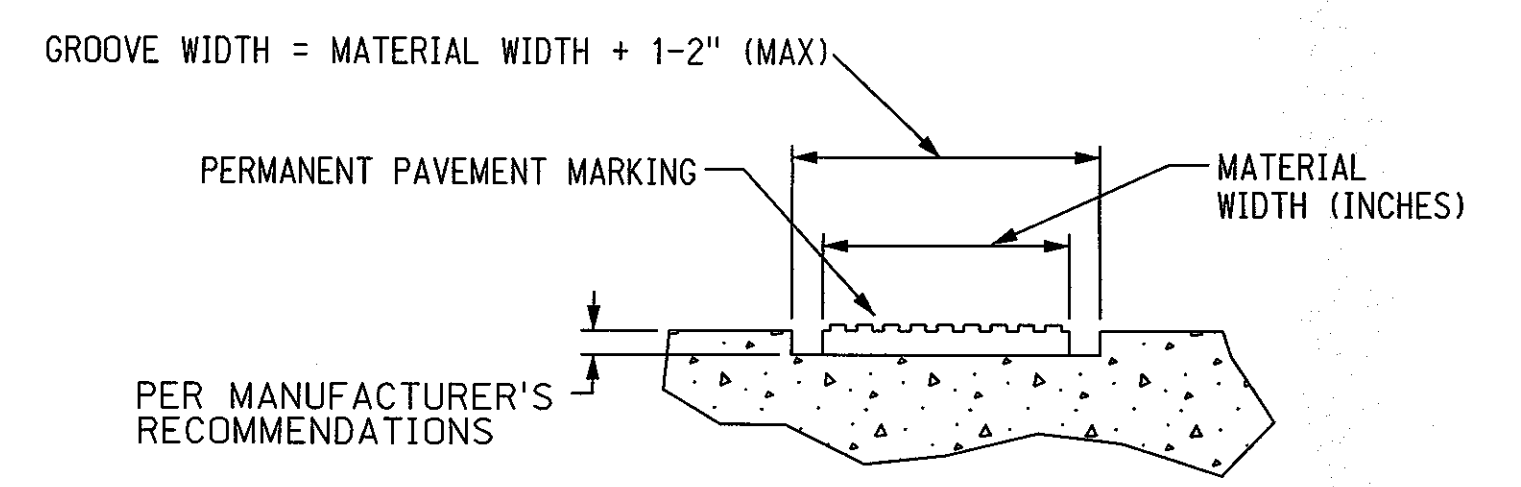
Note: See Figure 8B-6 and 8B-7 in the MUTCD for more information.



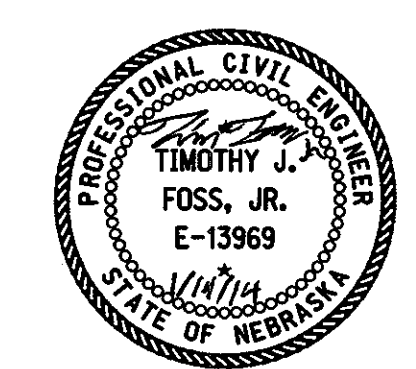
LANE REDUCTION ARROW DETAIL



PERMANENT PAVEMENT MARKINGS INSTALLED IN GROOVES

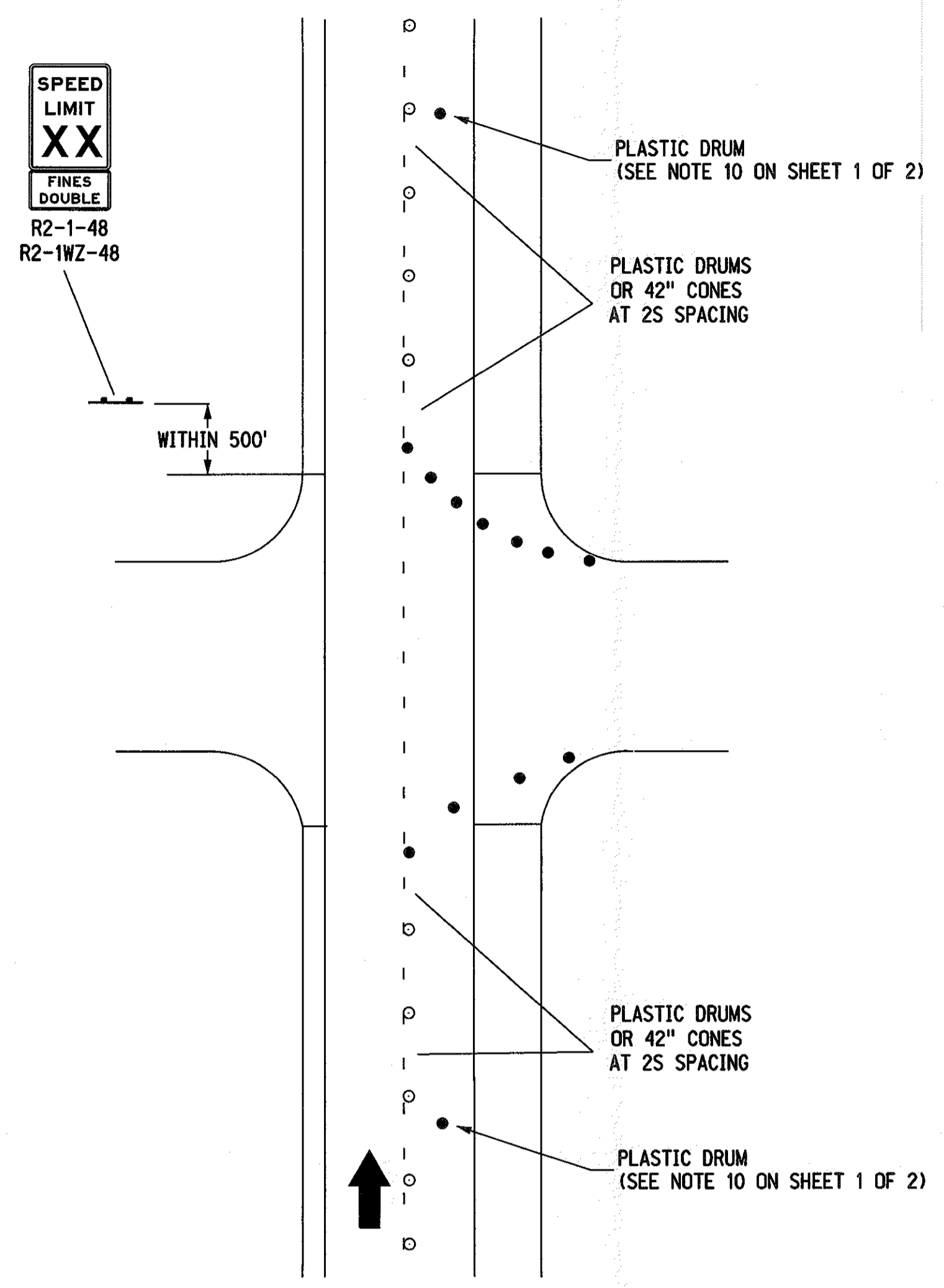


NO PASSING ZONE (Optional)

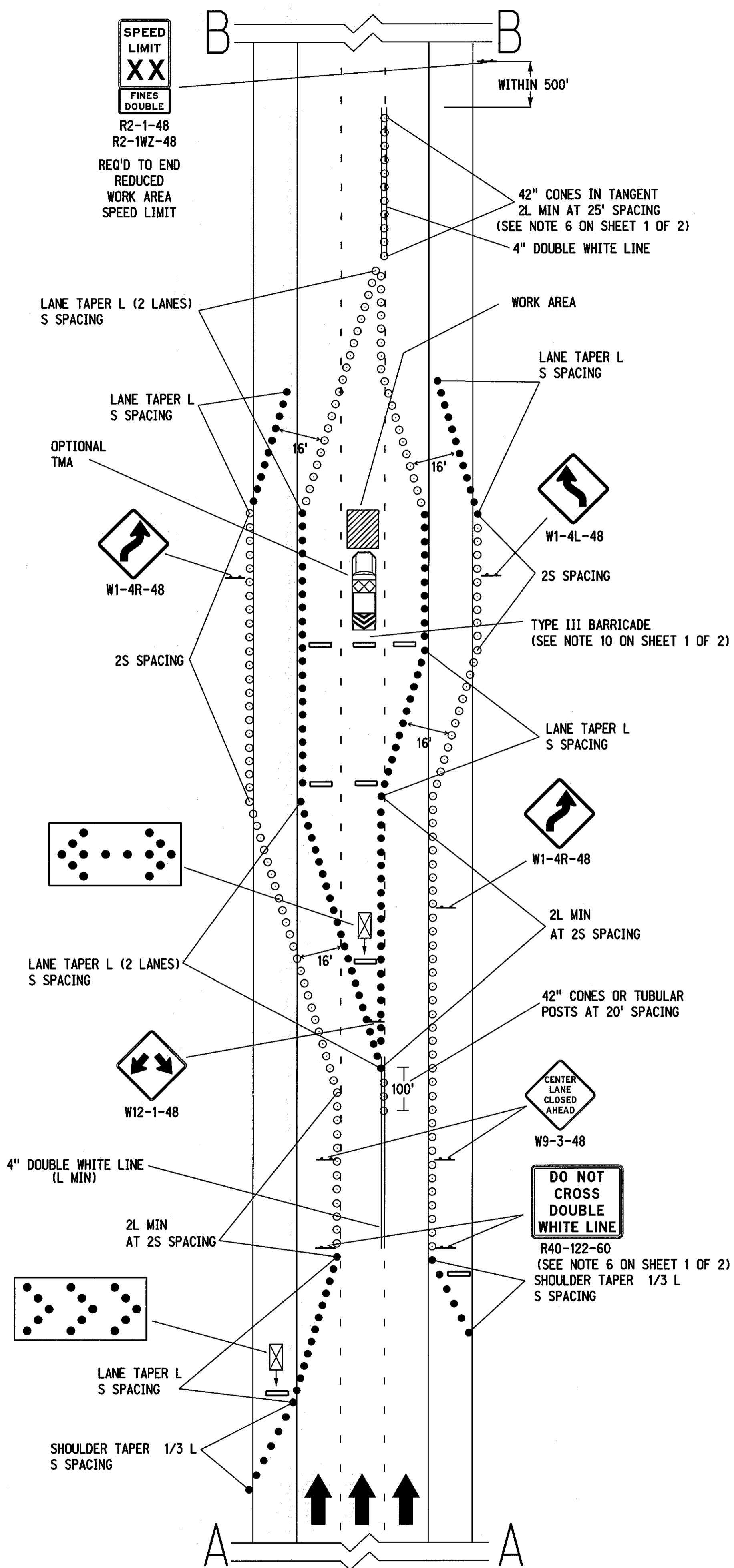


NEBRASKA DEPARTMENT OF ROADS TRAFFIC ENGINEERING DIVISION			
PAVEMENT MARKING PLAN			
DESIGNED	KSF	PAVEMENT MARKING DETAILS	
REVIEWED			1/1
APPROVED	DATE DRAWN	TRAFFIC ENGINEER	DATE
	01/14		

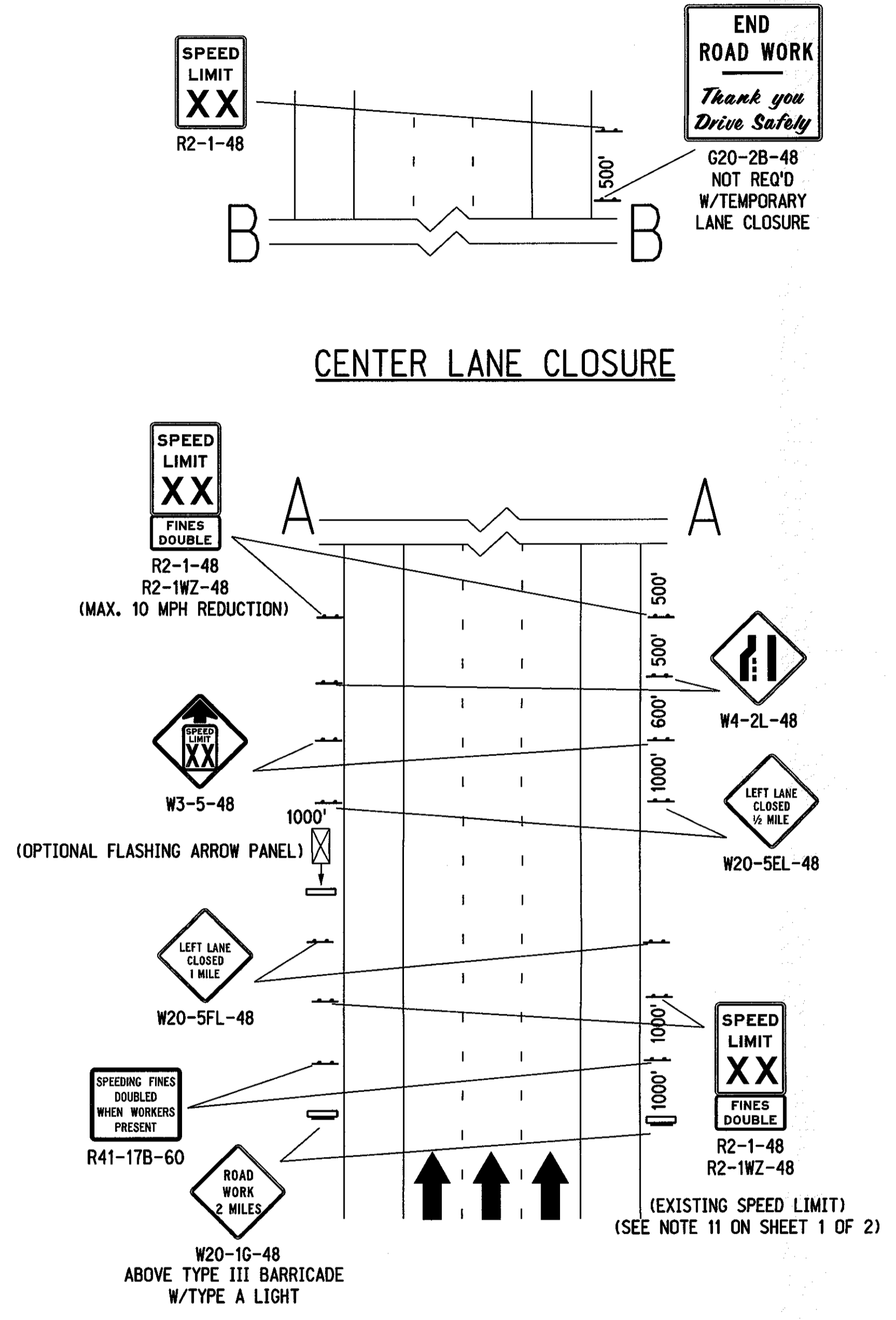
SIDE ROAD ENTRY WITHIN LANE CLOSURE



- LEGEND**
- FLASHING ARROW PANEL
 - TYPE III BARRICADE
 - REFLECTORIZED PLASTIC DRUM
 - REFLECTORIZED PLASTIC DRUM OR 42" REFLECTORIZED CONE
 - SINGLE POST SIGN
 - DOUBLE POST SIGN



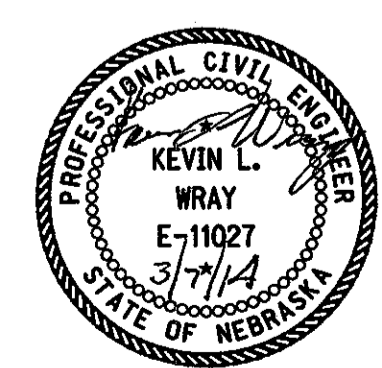
CENTER LANE CLOSURE



TAPER FORMULA

$L = S \times W$ FOR SPEEDS OF 45 MPH OR MORE.
 $L = \frac{WS^2}{60}$ FOR SPEEDS OF 40 MPH OR LESS.

WHERE:
 L = MINIMUM LENGTH OF TAPER.
 S = NUMERICAL VALUE OF POSTED SPEED LIMIT PRIOR TO WORK.
 W = WIDTH OF OFFSET (LANE WIDTH).



NEBRASKA DEPARTMENT OF ROADS TRAFFIC ENGINEERING DIVISION			
TYPICAL TRAFFIC CONTROL PLAN			
DESIGNED	TJF	LANE CLOSURE PLAN	(2/2)
REVIEWED		FOR MULTILANE ROADWAYS	
APPROVED	DATE DRAWN	TRAFFIC ENGINEER	DATE
	05/13		

User: DOR23027 Date: 18-JUL-2013 09:07
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