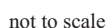


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ROADWAY WIDTHS

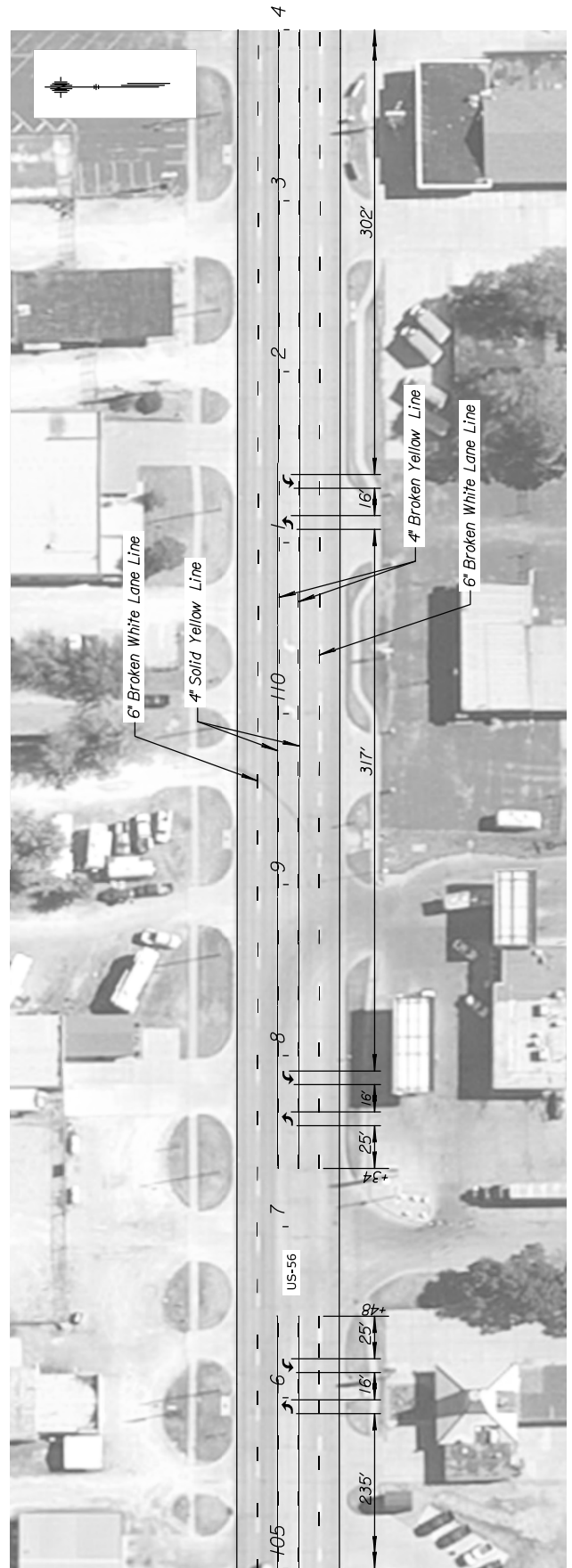
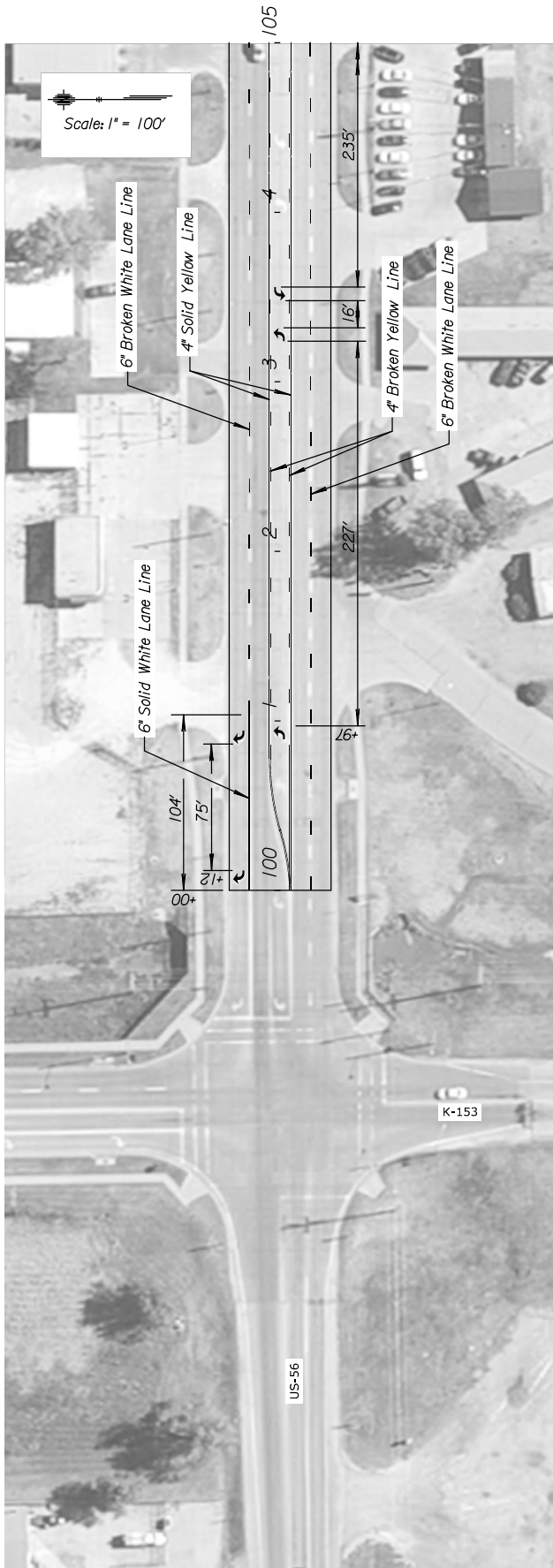
[illegible]

Quantity based on Ultrathin Bonded Asphalt Surfacing Type B @ _____ lbs/SqYd PG 70-28

Ultrathin Bonded Asphalt Surfacing Type A @ 65 lbs/SqYd PG 70-28

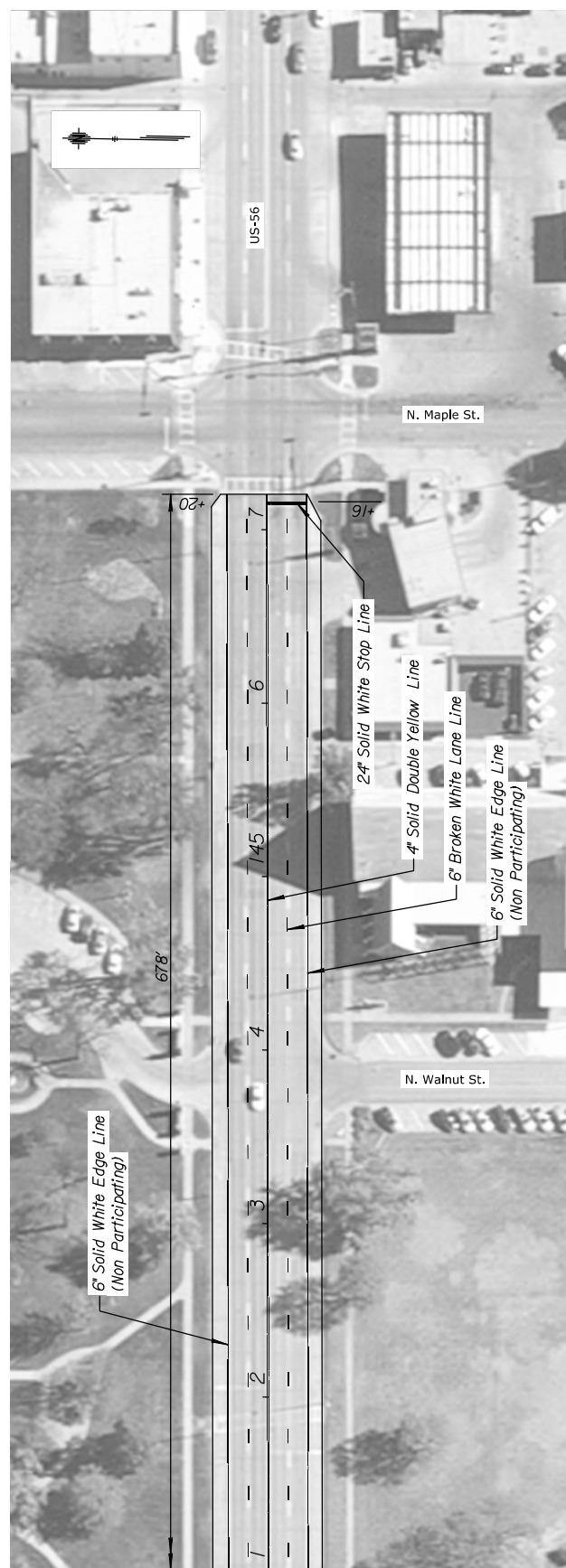
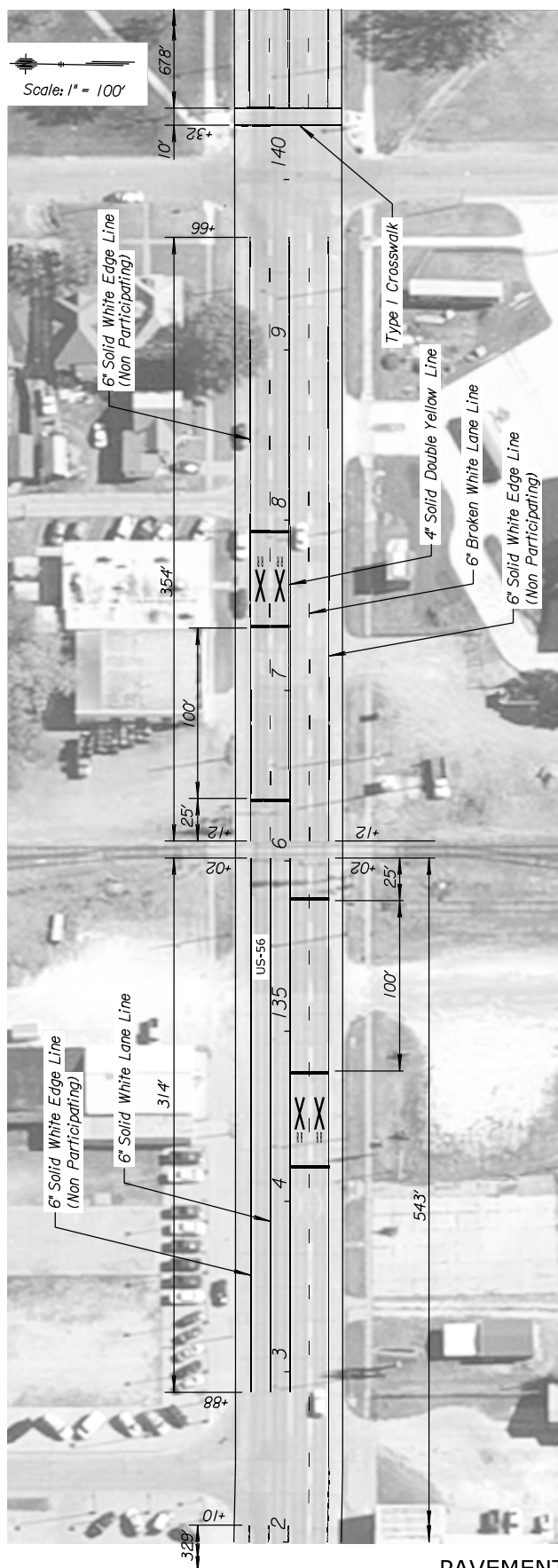
Emulsion Bonding Liquid EBL @0.20 gal/yd²

	Date: 4/16/2015 12:05 PM	KANSAS DEPARTMENT OF TRANSPORTATION
McPherson Co.	PROJ. NO.56-59 U-0186-01	TITLE: UBAS



PAVEMENT MARKING PLAN

Drawn By : csnachbar	Plotted : 4/22/2015	STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
File : M:\TRN\15-100-018-00\2_Disciplines\REFERENCES\US-56_Pavement_Marking-01.dgn		KANSAS	56-59 U-0186-01	2015	1	5



PAVEMENT MARKING PLAN

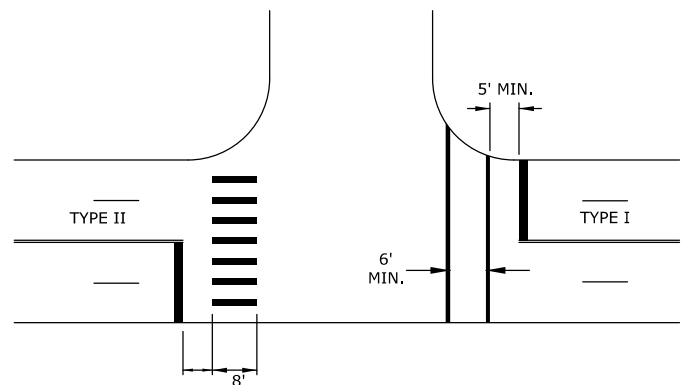
		-03.dgn	STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
Drawn By : csnachbar	Plotted : 4/22/2015		KANSAS	56-59 U-0186-01	2015	3	5
File : M:\TRN\15-100-018-00\2 Disciplines\ REFERENCES\US-56_Pavement Marking							

4" BROKEN
YELLOW LINE



*** THE LANE DROP MARKINGS LENGTH IS A MINIMUM OF 100'
AND A MAXIMUM OF 250' PRIOR TO THE 8" SOLID WHITE LINE

WHEN REQUIRED, STOP LINES SHALL BE INSTALLED A MINIMUM OF 5' FROM CROSSWALKS.



		STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
Drawn By : csnachbar	Plotted : 4/16/2015					
File : M:\TRN\15-100-018-002	Disciplines\ REFERENCES\US-56 TE309-01.dgn					
		KANSAS	56-59 U-0186-01	2015	4	5

[illegible]

A THREE-LANE ROADWAY SHOULD BE MARKED WITH A CENTERLINE FOR TWO-LANE APPROACH OPERATION ON THE APPROACH TO A CROSSING.

ON MULTI-LANE ROADS THE TRANSVERSE BANDS SHOULD EXTEND ACROSS ALL APPROACH LANES, AND INDIVIDUAL R X R SYMBOLS SHOULD BE USED IN EACH APPROACH LANE.

REFER TO STANDARD ALPHABET FOR HIGHWAY SIGNS AND MARKINGS FOR R X R SYMBOLS DETAILS.

*STOP LINE 8' FROM NEAR EDGE OF GATE OR CANTILEVER, IF PRESENT.

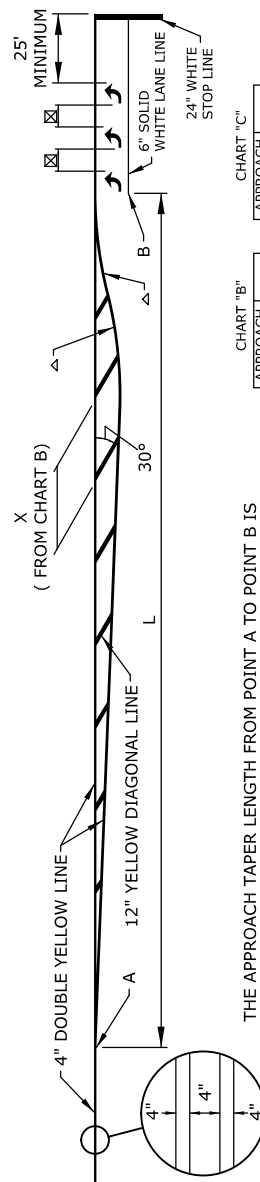
NOTE:

NOTE:
NON I, US, AND K ROUTES, 4" EDGE LINES MAY BE INSTALLED.
6" EDGE LINES ARE NOT REQUIRED ON NON I, US, AND K ROUTES.

(X) PLACEMENT LOCATION IS DEPENDENT ON SITE CONDITIONS AND OTHER SIGNING TO PROVIDE ADEQUATE ADVANCE WARNING TO THE DRIVER

ALL DISTANCES
ARE MINIMUM.

TYPICAL
APPROACH TAPER DETAIL



THE APPROACH TAPER LENGTH FROM POINT A TO POINT B IS TO BE DETERMINED USING CHART C. VALUES FOR L WERE CALCULATED USING THE EQUATIONS BELOW AND INCREASED TO THE NEXT HIGHER 5 MPH INCREMENT.

- SPEEDS < 45 MPH $L = \frac{W * S^2}{60}$

- SPEEDS = 45 MPH L= W*S

IF ARROWS ARE USED AND UNLESS OTHERWISE SPECIFIED THE SPACE BETWEEN LINES SHOULD BE AT LEAST FOUR TIMES THE HEIGHT OF THE CHARACTERS FOR LOW SPEED ROADS BUT NOT MORE THAN TEN TIMES THE HEIGHT OF THE CHARACTERS, UNDER ANY CONDITIONS.

FOR SPEEDS LESS THAN OR EQUAL TO 40 MPH, R=150'.
FOR SPEEDS GREATER THAN OR EQUAL TO 45 MPH, R=300'.

CHART "A"	SPEED MPH	DISTANCE D (feet)
	75	850
	70	750
	65	650
	60	550
	55	450
	50	375
	45	300
	40	225
	35	150
	30	(X)
	25	(X)
	20	(X)

CHART "C"	
APPROACH SPEED	L
20 MPH	80'
25 MPH	125'
30 MPH	180'
35 MPH	245'
40 MPH	320'
45 MPH	540'
50 MPH	600'
55 MPH	660'
60 MPH	720'
65 MPH	780'
70 MPH	840'

CHART "B"	APPROACH SPEED	X
	20 MPH	20'
	25 MPH	25'
	30 MPH	30'
	35 MPH	35'
	40 MPH	40'
	45 MPH	45'
	50 MPH	50'
	55 MPH	55'
	60 MPH	60'
	65 MPH	65'
	70 MPH	70'

Drawn By : csnachbar	Plotted : 4/16/2015
File : M:\TRN\15-100-018-002 Disciplines\ REFERENCES\US-56 TE309-02.dgn	

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	56-59 U-0186-01	2015	5	5

SUMMARY OF PAVEMENT MARKINGS															
LOCATION	6" Solid WHITE Edge Line	6" Broken WHITE Lane Line	6" Dotted WHITE Extension Line	6" Solid WHITE Lane Line	8" Solid WHITE Gore Line	12" Solid WHITE Diagonal Line	12" Solid WHITE Chevron Line	12" Solid WHITE Type I Crosswalk Line	24" Solid WHITE Type II Crosswalk Line	24" Solid WHITE Stop Line	4" Solid YELLOW Double Line	4" Solid YELLOW Line	4" Broken YELLOW Line	6" Solid YELLOW Edge Line	12" Solid YELLOW Diagonal Line
Sta. 100+00.00 - 106+47.67		298'		104'							312'	1140'	285'		
Sta. 106+47.67 - 107+34.07		22'													
Sta. 107+34.07 - 115+84.76		426'										1702'	426'		
Sta. 115+84.76 - 116+79.77												190'	48'		
Sta. 116+79.77 - 125+00.56		411'										1642'	411'		
Sta. 125+66.56 - 128+16.12	248'	63'		339'							840'				43'
Sta. 128+16.12 - 128+81.58	66'	16'													
Sta. 128+81.58 - 130+08.85	254'	32'		127'							254'				
Sta. 130+08.85 - 130+59.02	50'			50'											
Sta. 130+59.02 - 132+09.51	302'	38'		151'							302'				
Sta. 132+09.51 - 132+87.98	79'	20'													
Sta. 132+87.98 - 136+01.64	627'	79'		314'						23'	628'				
Sta. 136+11.64 - 139+66.10	709'	177'								23'	708'				
Sta. 140+31.98 - 147+20.42	1357'	339'						126'		23'	1356'				
TOTALS	3692'	1921'		1085'				126'		69'	4400'	4674'	1170'		43'

NOTE: For Specific pavement marking details and dimensions see plan sheets

NOTE: ALL TOTALS REFLECT ACTUAL QUANTITY OF
PAVEMENT MARKING MATERIALS REQUIRED

Project No. 56-59 U-0186-01

Figure 16.10

SUMMARY WORD & SYMBOL MARKINGS											
LOCATION								STOP	ONLY	X-ING	SCHOOL
Sta. 100+03.80 - 126+33.23				2	19						
Sta. 133+73.74 - 137+66.88							4				
TOTALS				2	19		4				

NOTE: For Specific pavement marking details and dimensions see plan sheets

NOTE: ALL TOTALS REFLECT ACTUAL QUANTITY OF PAVEMENT MARKING MATERIALS REQUIRED

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Figure 16.11

RECAPITULATION OF QUANTITIES		
ITEMS	TOTAL	UNITS
PAVEMENT MARKING (MULTI-COMPONENT)(WHITE)(4")		Inft
PAVEMENT MARKING (MULTI-COMPONENT)(WHITE)(6")	6698	Inft
PAVEMENT MARKING (MULTI-COMPONENT)(WHITE)(8")		Inft
PAVEMENT MARKING (MULTI-COMPONENT)(WHITE)(12")		Inft
PAVEMENT MARKING (MULTI-COMPONENT)(YELLOW)(4")	10244	Inft
PAVEMENT MARKING (MULTI-COMPONENT)(YELLOW)(6")		Inft
PAVEMENT MARKING (MULTI-COMPONENT)(YELLOW)(12")	43	Inft
PAVEMENT MARKING (EPOXY)(WHITE)(4")		Inft
PAVEMENT MARKING (EPOXY)(WHITE)(6")		Inft
PAVEMENT MARKING (EPOXY)(WHITE)(8")		Inft
PAVEMENT MARKING (EPOXY)(WHITE)(12")		Inft
PAVEMENT MARKING (EPOXY)(YELLOW)(4")		Inft
PAVEMENT MARKING (EPOXY)(YELLOW)(6")		Inft
PAVEMENT MARKING (EPOXY)(YELLOW)(12")		Inft
PAVEMENT MARKING (INTERSECTION GRADE) (WHITE) (12")	126	Inft
PAVEMENT MARKING (INTERSECTION GRADE)(WHITE)(24")	69	Inft
PAVEMENT MARKING (INTERSECTION GRADE)(YELLOW)(12")		Inft
PAVEMENT MARKING SYMBOL (INTERSECTION GRADE) (WHITE) (R/R XING)	4	EACH
PAVEMENT MARKING SYMBOL (INTERSECTION GRADE) (WHITE) (Lt Turn Arrow)	19	EACH
PAVEMENT MARKING SYMBOL (INTERSECTION GRADE) (WHITE) (Rt Turn Arrow)	2	EACH
PAVEMENT MARKING SYMBOL (INTERSECTION GRADE) (WHITE) (ONLY)		EACH
PAVEMENT MARKING SYMBOL (INTERSECTION GRADE) (WHITE) (Rt/Thru Arrow)		EACH
PAVEMENT MARKING REMOVAL		Inft

NOTE:

WORDS & SYMBOLS SHALL CONFORM TO THE LATEST EDITION OF "STANDARD ALPHABETS FOR HIGHWAY SIGNS AND PAVEMENT MARKINGS" PRINTED BY THE U.S. DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION.

PRIOR TO COMMENCEMENT OF PAVEMENT MARKING WORK THE ENGINEER WILL ESTABLISH THE LIMITS FOR "NO PASSING" ZONES. THESE LIMITS SHALL BE USED FOR THE LOCATION OF " NO PASSING" LINES AND FOR THE COMPUTATION OF ACTUAL MARKING QUANTITIES FOR THIS LINE TYPE

Figure 16.12