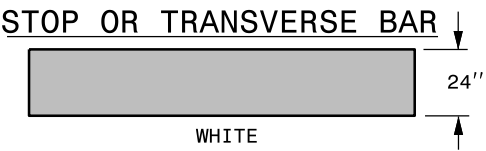
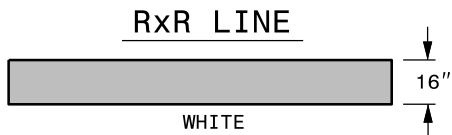
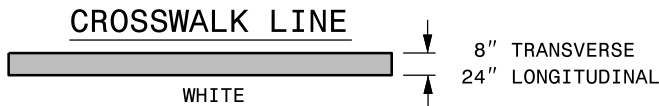
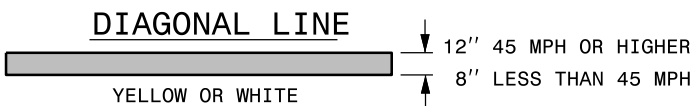
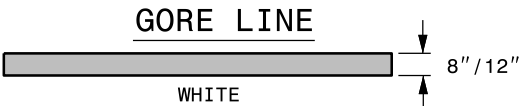
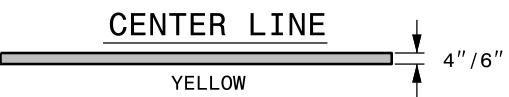
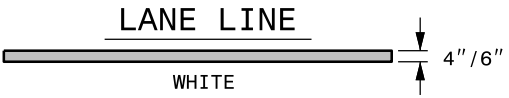
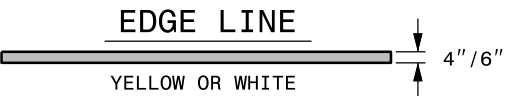
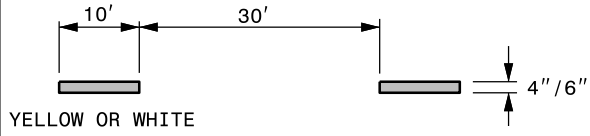


**CONTINUOUS LINES**



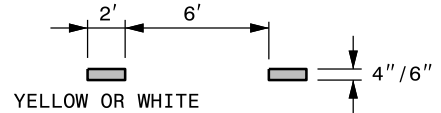
**10'-30'/SP SKIP LINE**

UNLESS OTHERWISE SHOWN, USE 10'-30'/SP SKIPS FOR SKIP LANE LINES AND SKIP CENTER LINES.



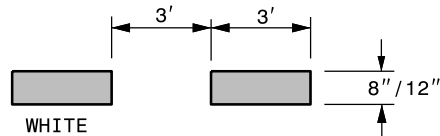
**2'-6'/SP MINI-SKIP LINE**

UNLESS OTHERWISE SHOWN, USE 2'-6'/SP MINI-SKIPS FOR LANE LINE EXTENSIONS THROUGH INTERSECTIONS, EDGE LINE EXTENSIONS THROUGH INTERSECTIONS AND MINI-SKIPS USED FOR BICYCLE LANE LINES.



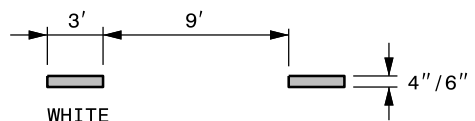
**3'-3'/SP MINI-SKIP LINE**

UNLESS OTHERWISE SHOWN, USE 3'-3'/SP MINI-SKIPS FOR THE WHITE EDGE LINE EXTENSIONS AT ROUNDABOUTS.



**3'-9'/SP MINI-SKIP LINE**

UNLESS OTHERWISE SHOWN, USE 3'-9'/SP MINI-SKIPS FOR MINI-SKIP LANE LINES AND LINE EXTENSIONS THROUGH TAPERS.



**GENERAL NOTES:**

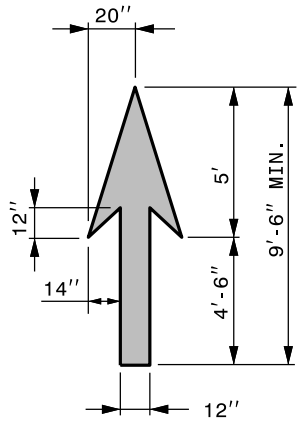
- 1- USE 6" LANE, EDGE, AND CENTER LINES ON ALL FULL CONTROL OF ACCESS FACILITIES AND OTHER ROUTES AS DIRECTED BY THE ENGINEER.
- 2- LANE LINES INDICATED AS "WIDE" ON THE ROADWAY STANDARD DRAWINGS SHALL BE AT LEAST TWICE THE WIDTH OF THE NORMAL LINE.
- 3- GORE LINES SHALL BE TWICE THE WIDTH OF THE NORMAL LINE.

STATE OF NORTH CAROLINA  
DEPT. OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
RALEIGH, N.C.

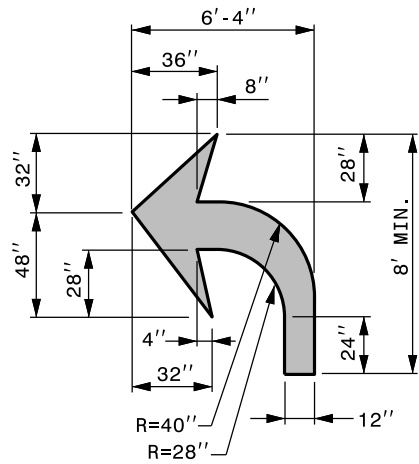
1-18

ROADWAY STANDARD DRAWING FOR  
**PAVEMENT MARKINGS**  
LINE TYPES AND OFFSETS

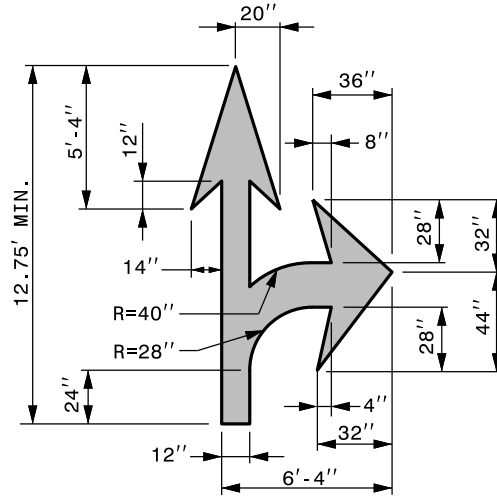
**STRAIGHT ARROW**



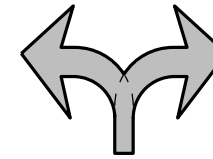
**RIGHT OR LEFT TURN ARROW**



**COMBINATION STRAIGHT AND LEFT OR RIGHT TURN ARROW**

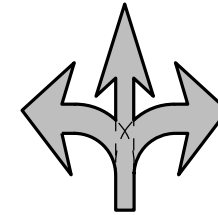


**COMBINATION LEFT AND RIGHT TURN ARROW**



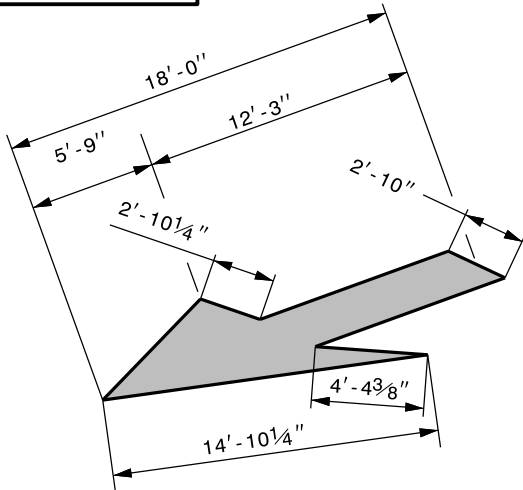
SAME DIMENSIONS APPLY AS FOR THE LEFT/RIGHT TURN ARROW

**COMBINATION LEFT AND STRAIGHT AND RIGHT TURN ARROW**

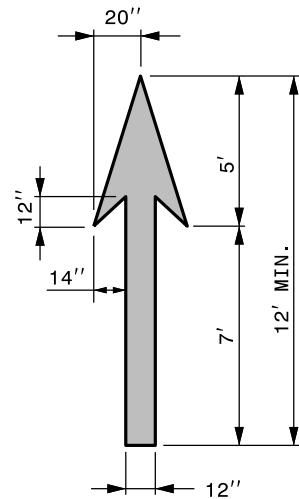


SAME DIMENSIONS APPLY AS FOR THE COMBINATION STRAIGHT AND LEFT/RIGHT TURN ARROW

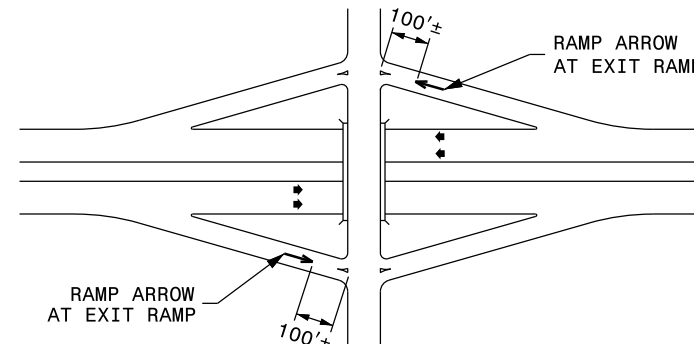
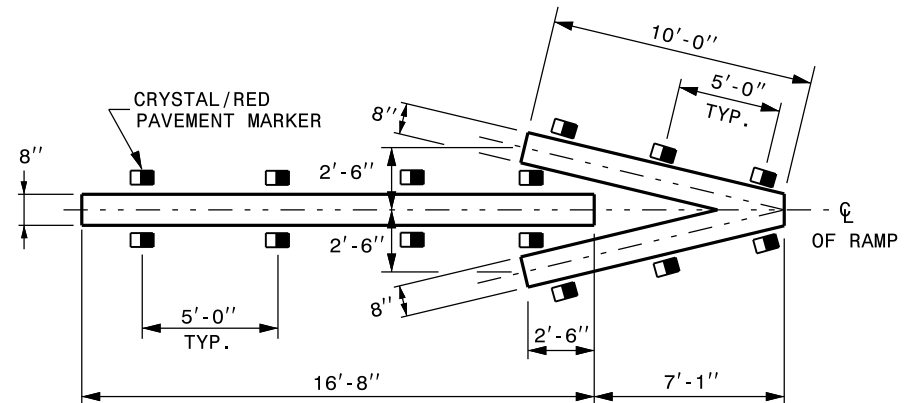
**MERGE ARROW**



**ELONGATED STRAIGHT ARROW**



**WRONG-WAY RAMP ARROW**



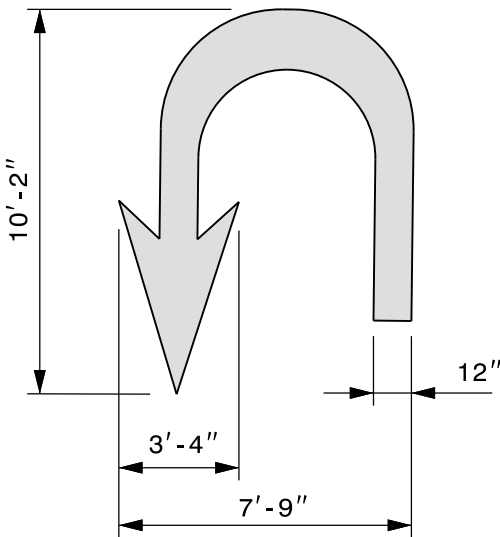
NOTE:

1- WHEN INSTALLING COLD APPLIED PLASTIC ON CONCRETE, IT IS RECOMMENDED TO USE COLD APPLIED PLASTIC WITH A BLACK CONTRASTING BOLDER.

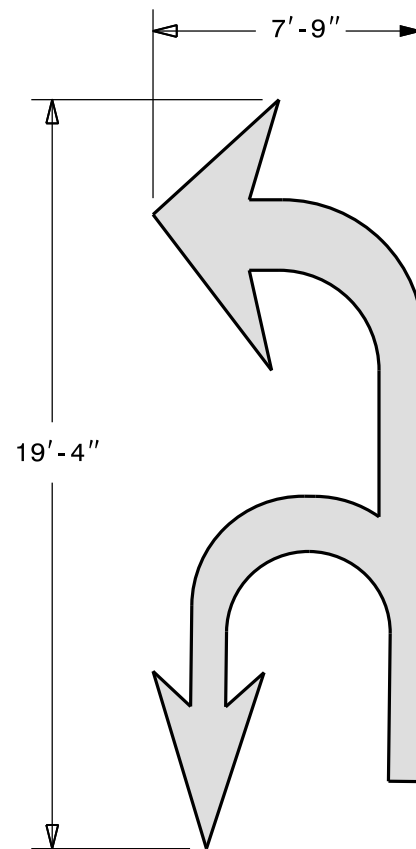
**GENERAL NOTES:**

- 1- USE THE COLOR WHITE FOR ALL PAVEMENT MARKING SYMBOLS.
- 2- DO NOT LOCATE PAVEMENT MARKING SYMBOLS AS TO ENCROACH INTO INTERSECTION AREAS.
- 3- DO NOT PLACE SYMBOLS ACROSS TRANSVERSE EXPANSION JOINTS ON PORTLAND CEMENT CONCRETE PAVEMENTS, UNLESS APPROVED BY THE ENGINEER.
- 4- CONFORM ALL SYMBOLS TO THE FHWA "STANDARD HIGHWAY SIGNS" MANUAL WHICH INCLUDES PAVEMENT MARKINGS AND STANDARD ALPHABETS (REFER TO SHEETS 6 THRU 9). DIMENSIONS CAN VARY AMONG MANUFACTURERS, THEREFORE SLIGHT VARIANCES ARE ACCEPTABLE. HOWEVER, ALL SYMBOLS ARE REQUIRED TO BE APPROVED BY THE DEPARTMENT.

**U-TURN ARROW LEFT**

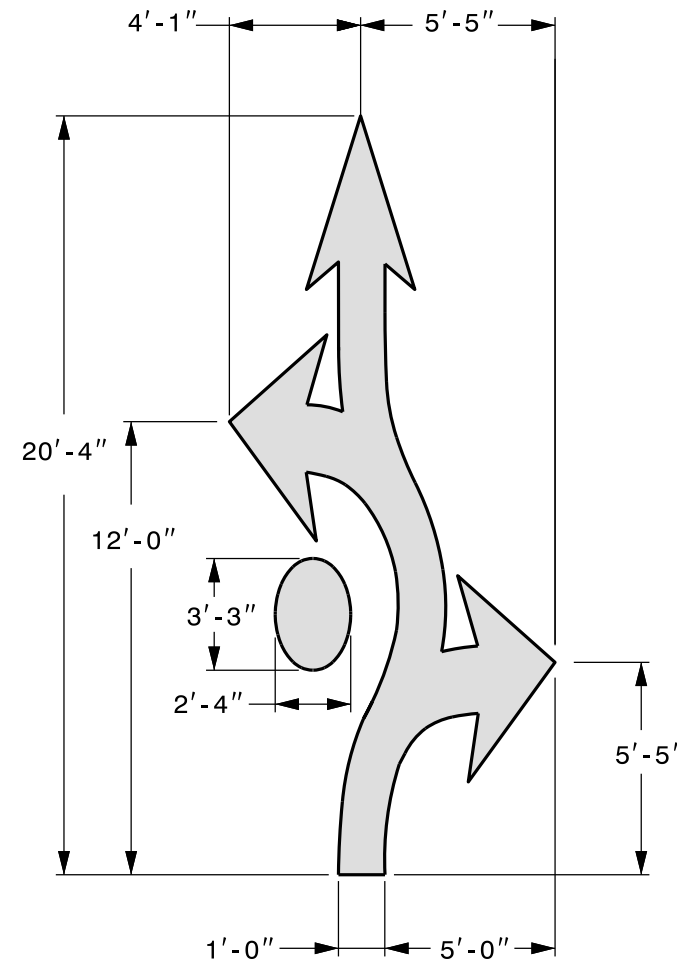


**LEFT/U-TURN ARROW COMBINATION**

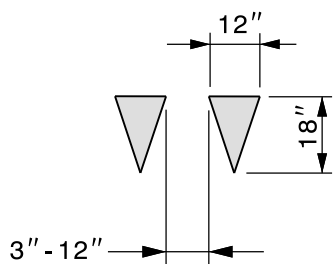


**ROUNDBOUT FISH-HOOK ARROW TYPICAL**

USE TYPICAL TO LAYOUT SYMBOL CONFIGURATION NEEDED

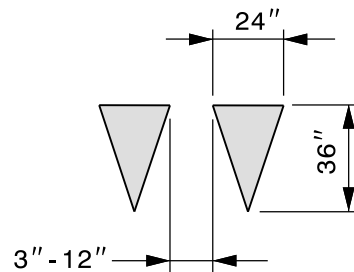


**12" YIELD LINE SYMBOL**



USE ON LANES UNDER 12'

**24" YIELD LINE SYMBOL**



USE ON LANES 12' AND ABOVE

**GENERAL NOTES:**

- 1- USE THE COLOR WHITE FOR ALL PAVEMENT MARKING SYMBOLS.
- 2- DO NOT LOCATE PAVEMENT MARKING SYMBOLS AS TO ENCROACH INTO INTERSECTION AREAS.
- 3- DO NOT PLACE SYMBOLS ACROSS TRANSVERSE EXPANSION JOINTS ON PORTLAND CEMENT CONCRETE PAVEMENTS, UNLESS APPROVED BY THE ENGINEER.
- 4- CONFORM ALL SYMBOLS TO THE FHWA "STANDARD HIGHWAY SIGNS" MANUAL WHICH INCLUDES PAVEMENT MARKINGS AND STANDARD ALPHABETS (REFER TO SHEETS 6 THRU 9). DIMENSIONS CAN VARY AMONG MANUFACTURERS, THEREFORE SLIGHT VARIANCES ARE ACCEPTABLE. HOWEVER, ALL SYMBOLS ARE REQUIRED TO BE APPROVED BY THE DEPARTMENT.

ROADWAY STANDARD DRAWING FOR

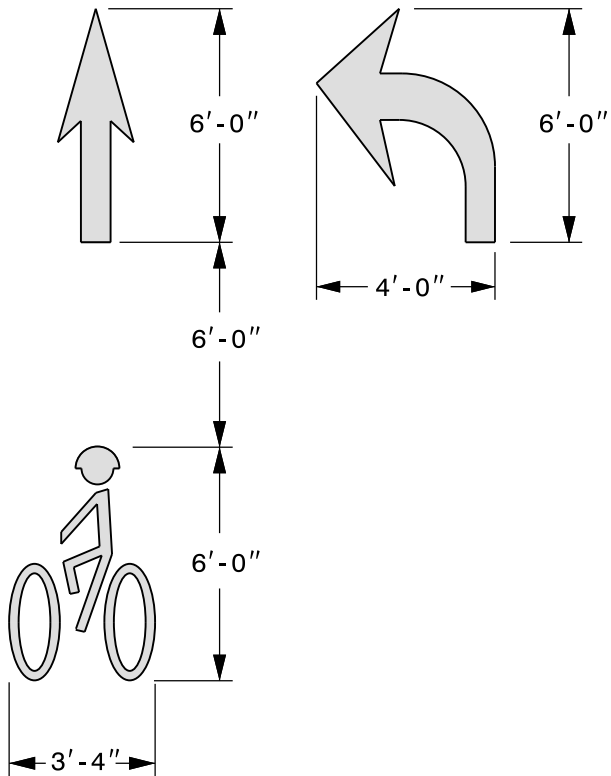
**PAVEMENT MARKINGS**

SYMBOLS AND WORD MESSAGES

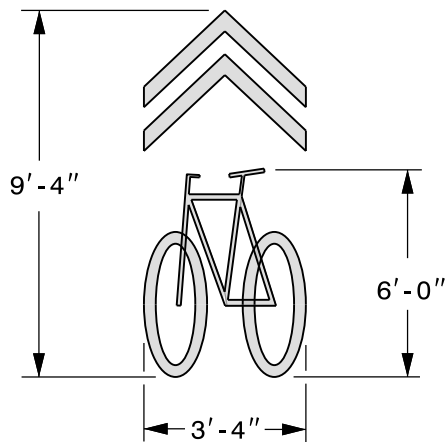
1-18

STATE OF  
NORTH CAROLINA  
DEPT. OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
RALEIGH, N.C.

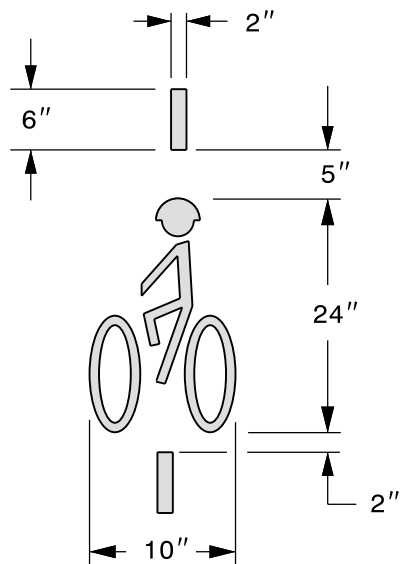
### BICYCLE LANE SYMBOLS



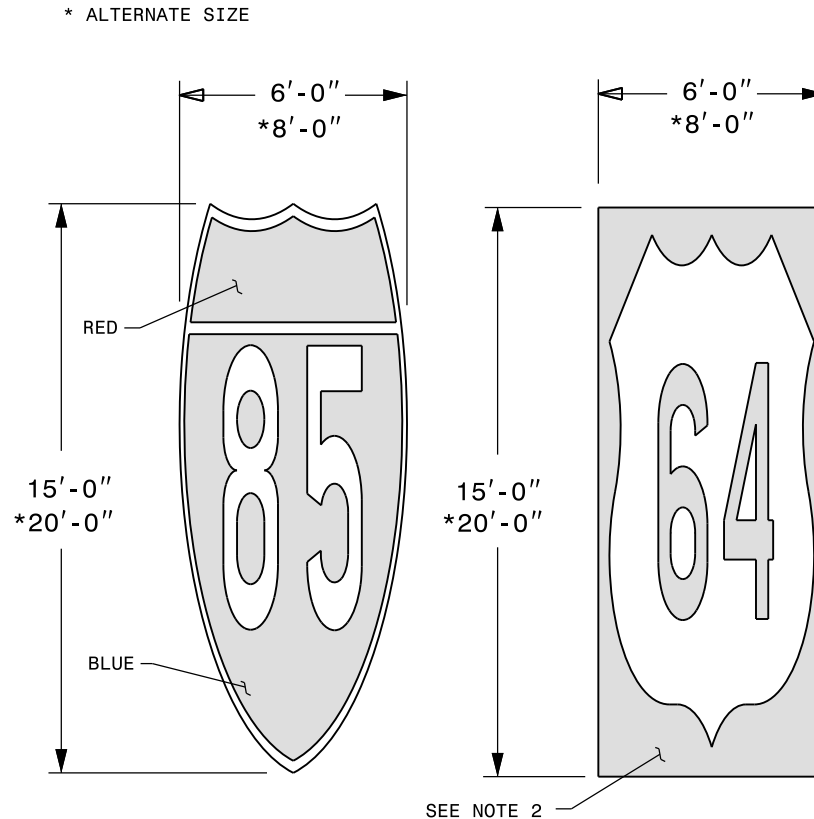
### SHARED LANE SYMBOL



### BICYCLE DETECTOR SYMBOL



### ROUTE SHIELDS



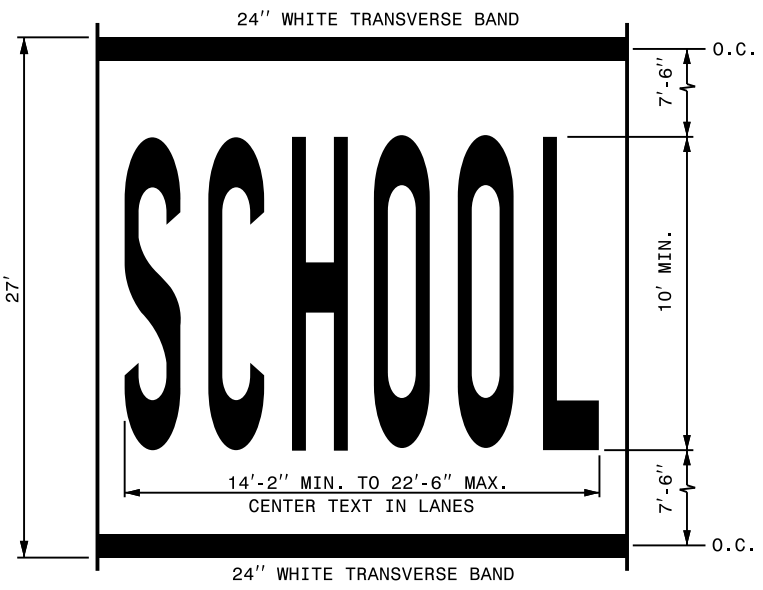
#### NOTES:

- 1- INTERSTATE SHIELD HAS A COLOR BACKGROUND AS INDICATED.
- 2- BLACK CONTRASTING BACKGROUND OPTIONAL. SHIELD WITHOUT BACKGROUND SHALL MAINTAIN DIMENSIONS SHOWN.

#### GENERAL NOTES:

- 1- USE THE COLOR WHITE FOR ALL PAVEMENT MARKING SYMBOLS.
- 2- DO NOT LOCATE PAVEMENT MARKING SYMBOLS AS TO ENCROACH INTO INTERSECTION AREAS.
- 3- DO NOT PLACE SYMBOLS ACROSS TRANSVERSE EXPANSION JOINTS ON PORTLAND CEMENT CONCRETE PAVEMENTS, UNLESS APPROVED BY THE ENGINEER.
- 4- CONFORM ALL SYMBOLS TO THE FHWA "STANDARD HIGHWAY SIGNS" MANUAL WHICH INCLUDES PAVEMENT MARKINGS AND STANDARD ALPHABETS (REFER TO SHEETS 6 THRU 9). DIMENSIONS CAN VARY AMONG MANUFACTURERS, THEREFORE SLIGHT VARIANCES ARE ACCEPTABLE. HOWEVER, ALL SYMBOLS ARE REQUIRED TO BE APPROVED BY THE DEPARTMENT.

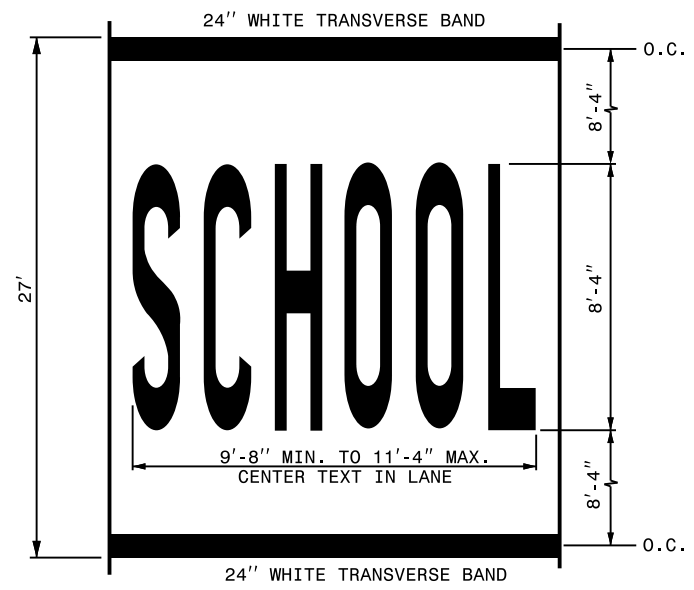
**MULTI-LANE WIDTH "SCHOOL"**



LETTER HEIGHT = 10' MIN.  
 LETTER WIDTH = 20"  
 SPACING = 10" MIN./30" MAX. (USE EQUAL SPACING BETWEEN LETTERS)

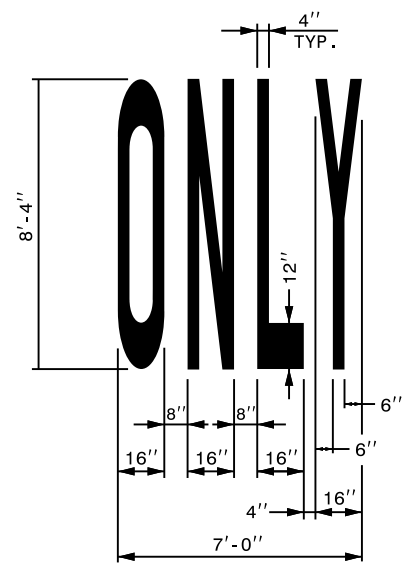
NOTE: THE TWO-LANE PAVEMENT MARKING DIMENSIONS OF "SCHOOL" SHOWN IN PART 7 OF THE MUTCD MAY ALSO BE USED.

**SINGLE LANE WIDTH "SCHOOL"**



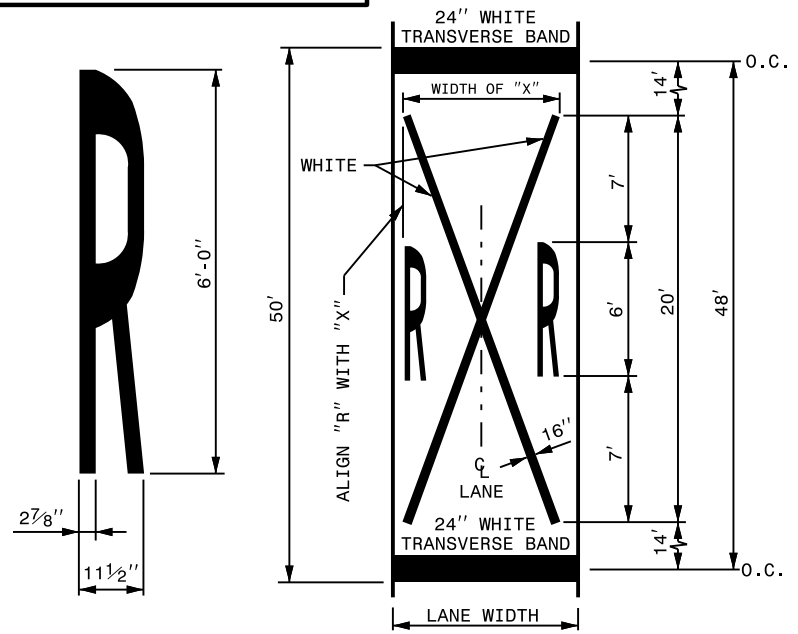
LETTER HEIGHT = 8'-4"  
 LETTER WIDTH = 16"  
 SPACING = 4" MIN./8" MAX. (USE EQUAL SPACING BETWEEN LETTERS)

**1-18** STATE OF NORTH CAROLINA  
 DEPT. OF TRANSPORTATION  
 DIVISION OF HIGHWAYS  
 RALEIGH, N.C.



ROADWAY STANDARD DRAWING FOR  
**PAVEMENT MARKINGS**  
 SYMBOLS AND WORD MESSAGES

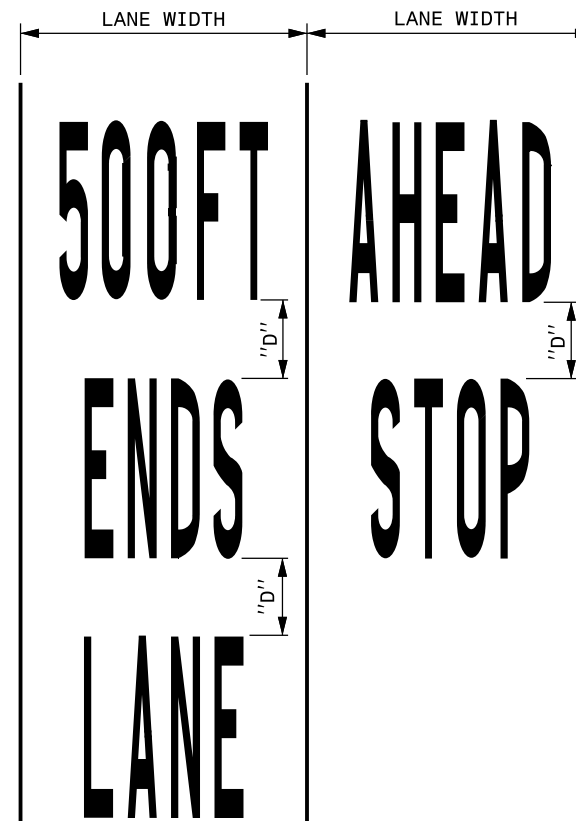
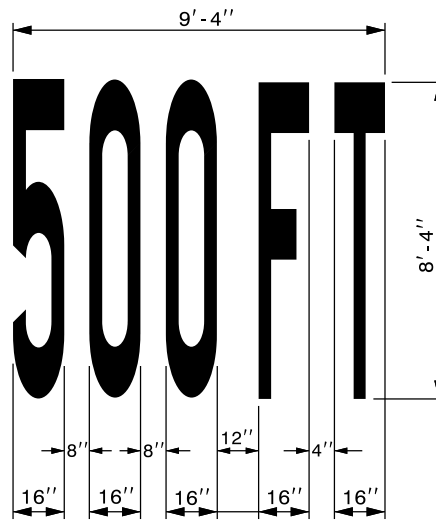
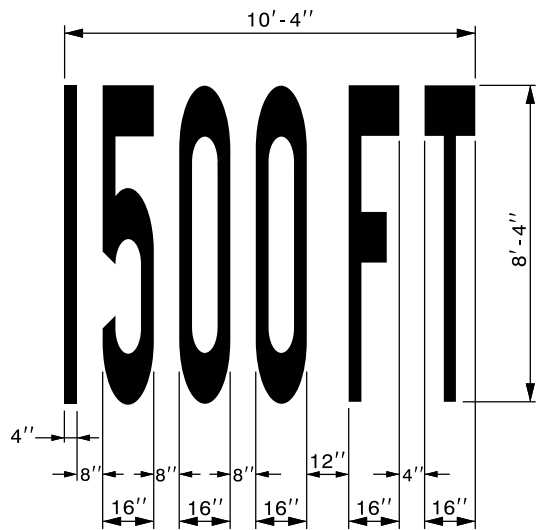
**RAILROAD RXR SYMBOL**



LANE WIDTH (FEET)	WIDTH OF "X" (FEET)
8' ≤ W ≤ 9'	7'
9' < W ≤ 12'	8'
W > 12'	10'

GENERAL NOTES:

- 1- THE SCHOOL PAVEMENT MARKING CONSISTS OF SIX (6) CHARACTERS. THE TWO (2) 24" TRANSVERSE BANDS WILL BE PAID PER LINEAR FOOT AS A 24" PAVEMENT MARKING LINE. REFER TO ROADWAY STANDARD DRAWING 1205.10 FOR ADDITIONAL PAVEMENT MARKING GUIDANCE.
- 2- PAVEMENT MARKING IN ADVANCE OF A HIGHWAY-RAIL CROSSING SHALL CONSIST OF TWO (2) CHARACTERS AND TWO (2) 16" LINES (FORMING AN X) WHICH ARE PAID PER LINEAR FOOT AS A 16" PAVEMENT MARKING LINE. THE TWO (2) 24" TRANSVERSE BANDS WILL BE PAID PER LINEAR FOOT AS A 24" PAVEMENT MARKING LINE. REFER TO ROADWAY STANDARD DRAWING 1205.11 FOR ADDITIONAL PAVEMENT MARKING GUIDANCE.



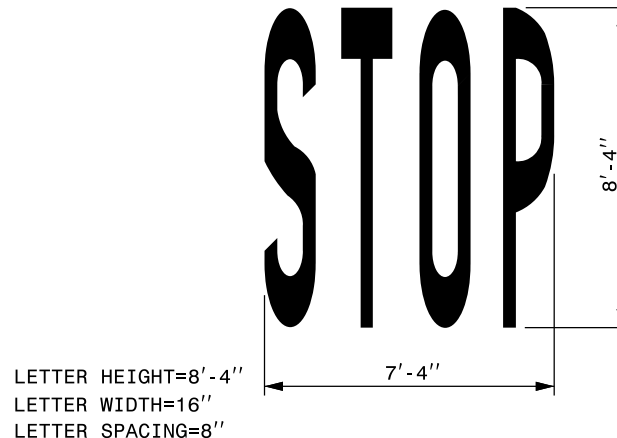
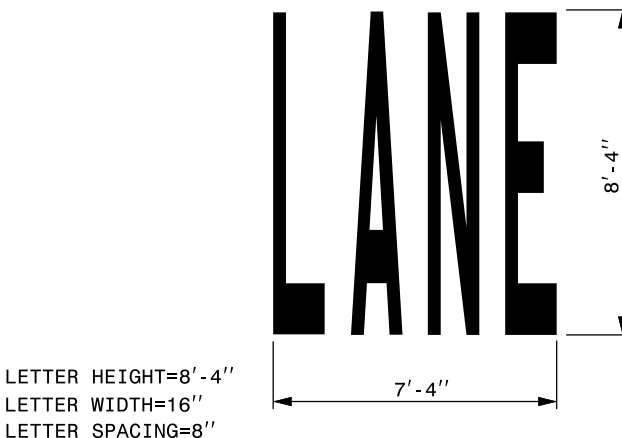
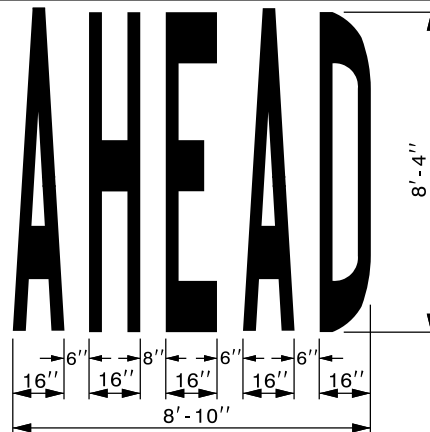
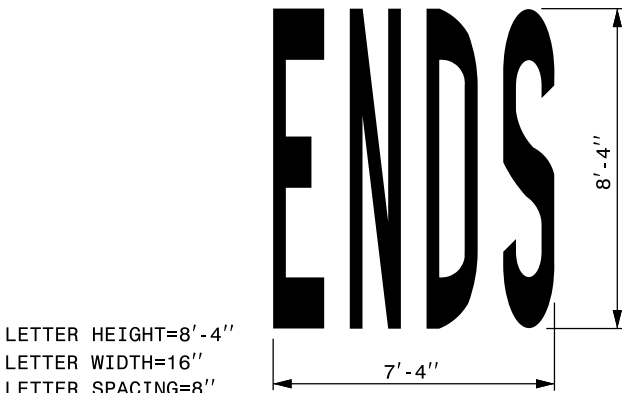
DIRECTION OF TRAVEL  
WORDS ARE CENTERED IN TRAVEL LANE

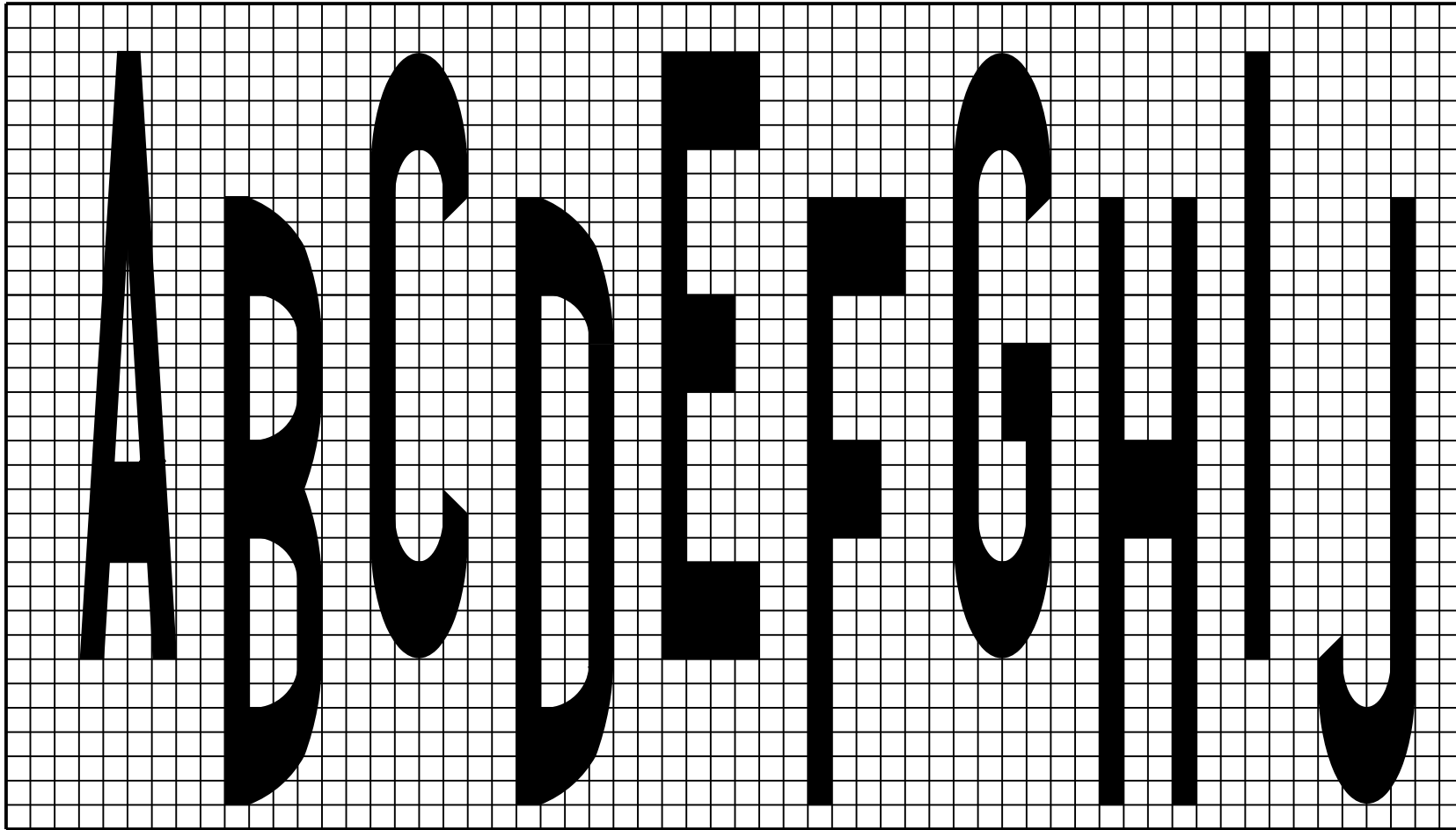
SPEED LIMIT (MPH)	DISTANCE "D" BETWEEN WORD SYMBOLS
35 OR LESS	40'
40 - 50	60'
55 - 60	80'
65 OR GREATER	100'

DISTANCE "D" MAY BE ADJUSTED AS NECESSARY FOR OPTICAL SPACING

ROADWAY STANDARD DRAWING FOR  
**PAVEMENT MARKINGS**  
SYMBOLS AND WORD MESSAGES

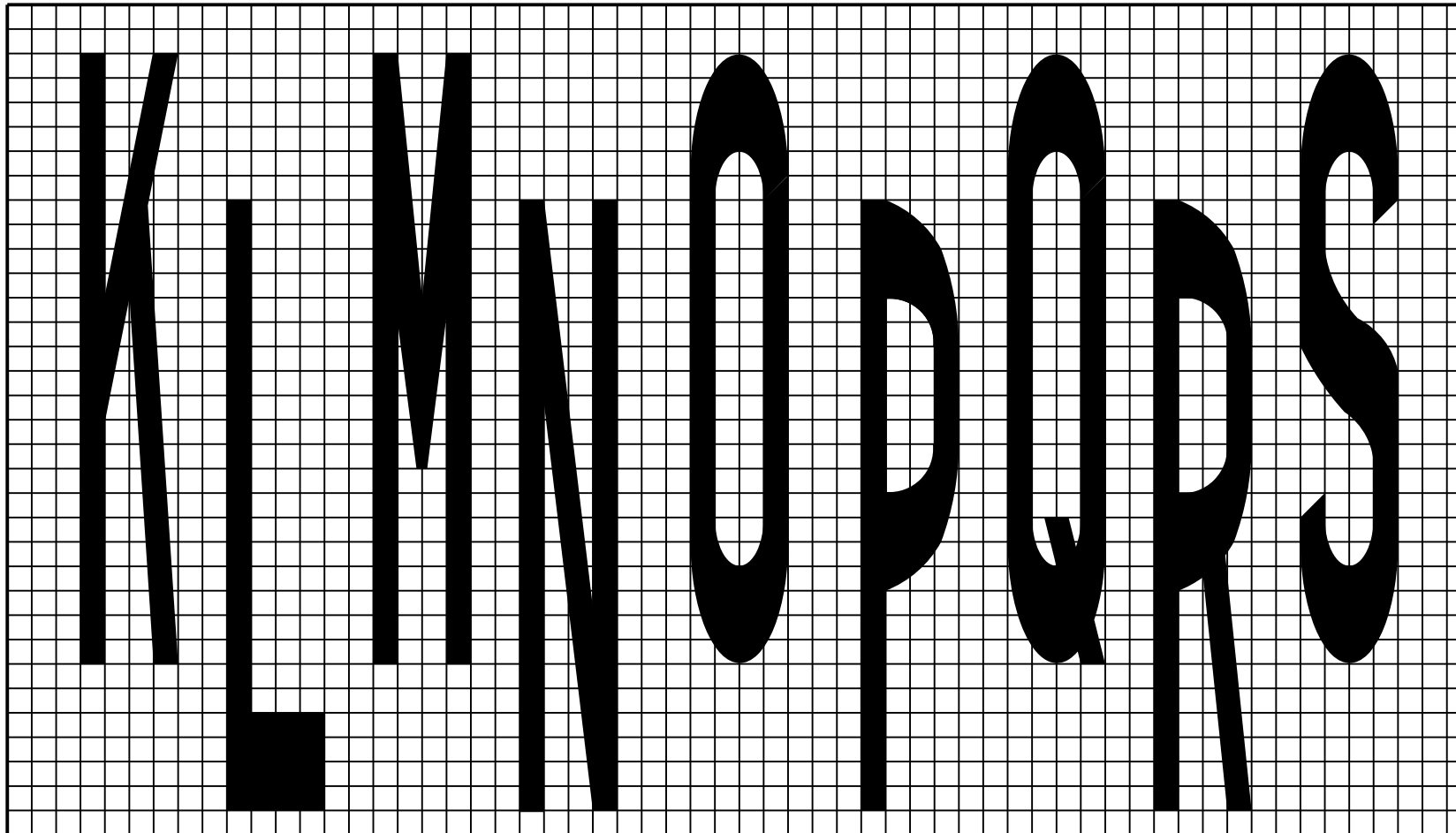
1-18 STATE OF NORTH CAROLINA  
DEPT. OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
RALEIGH, N.C.





GENERAL NOTES:

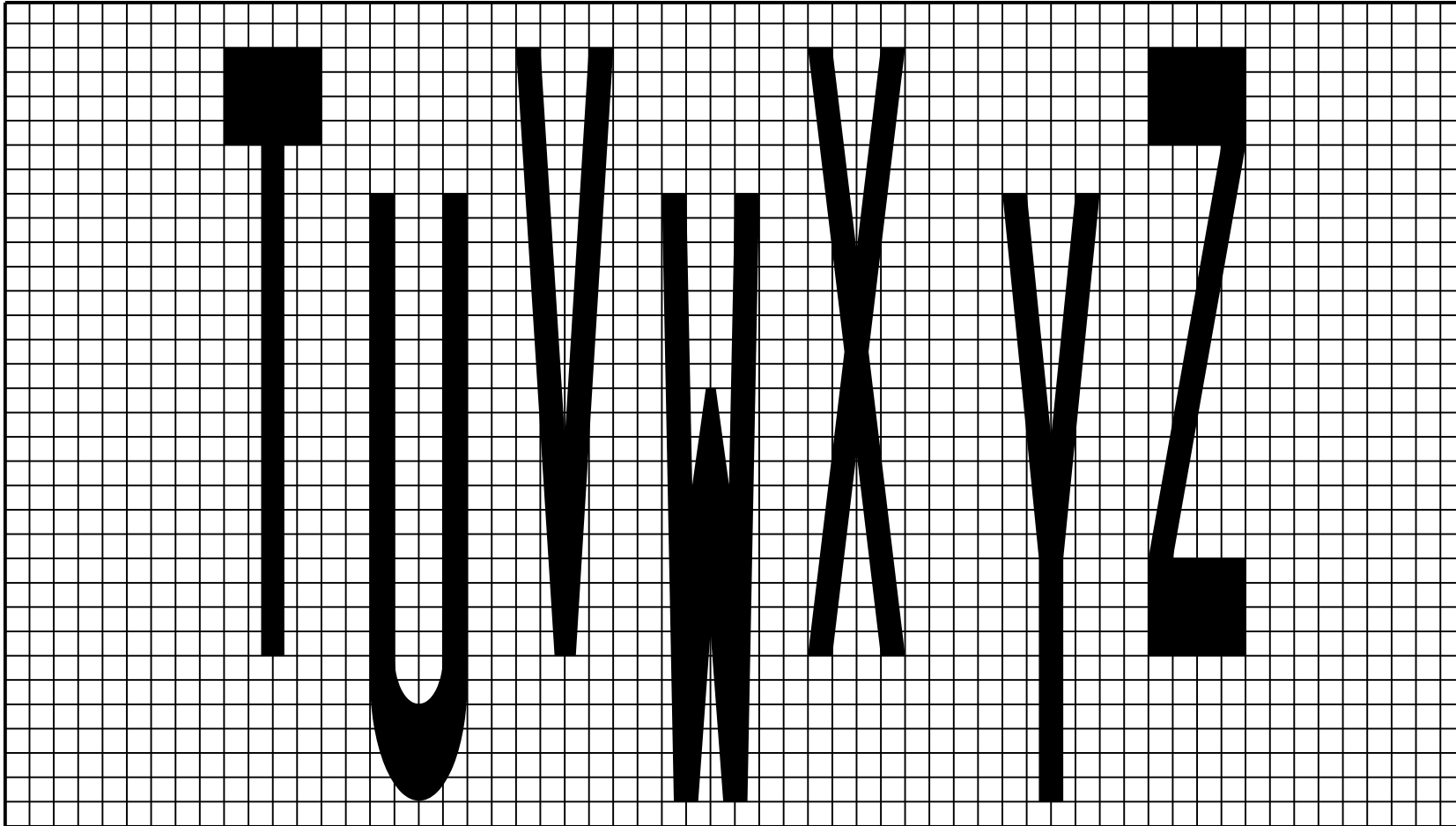
- 1- STANDARD CHARACTERS ARE 25 GRID UNITS HIGH AND 4 UNITS WIDE (EXCEPT LETTER "I" AND THE NUMBER "1" WHICH ARE 1 UNIT WIDE).
- 2- VERTICAL STROKES ARE 1 UNIT WIDE, HORIZONTAL STROKES ARE 4 UNITS HIGH.
- 3- SPACE 1 UNIT (MIN.) BETWEEN CHARACTERS OR AS OTHERWISE SHOWN (OPTICAL SPACING MAY BE USED).
- 4- STANDARD CHARACTER HEIGHTS ARE 8'-4". EXCEPT FOR THE 6' RAILROAD 'R' SYMBOL AND THE TWO-LANE 10' SCHOOL SYMBOL.
- 5- FOR 8'-4" HIGH CHARACTERS, THE WIDTH IS 16" (USE 4" FOR EACH GRID SQUARE).
- 6- FOR 10' HIGH CHARACTERS, THE WIDTH IS 20" (USE 5" FOR EACH GRID SQUARE).
- 7- FOR 6' HIGH CHARACTERS, THE WIDTH IS 11½" (USE 2⅞" FOR EACH GRID SQUARE).



GENERAL NOTES:

- 1- STANDARD CHARACTERS ARE 25 GRID UNITS HIGH AND 4 UNITS WIDE (EXCEPT LETTER "I" AND THE NUMBER "1" WHICH ARE 1 UNIT WIDE).
- 2- VERTICAL STROKES ARE 1 UNIT WIDE, HORIZONTAL STROKES ARE 4 UNITS HIGH.
- 3- SPACE 1 UNIT (MIN.) BETWEEN CHARACTERS OR AS OTHERWISE SHOWN (OPTICAL SPACING MAY BE USED).
- 4- STANDARD CHARACTER HEIGHTS ARE 8'-4". EXCEPT FOR THE 6' RAILROAD 'R' SYMBOL AND THE TWO-LANE 10' SCHOOL SYMBOL.
- 5- FOR 8'-4" HIGH CHARACTERS, THE WIDTH IS 16" (USE 4" FOR EACH GRID SQUARE).
- 6- FOR 10' HIGH CHARACTERS, THE WIDTH IS 20" (USE 5" FOR EACH GRID SQUARE).
- 7- FOR 6' HIGH CHARACTERS, THE WIDTH IS 11½" (USE 2⅞" FOR EACH GRID SQUARE).





GENERAL NOTES:

- 1- STANDARD CHARACTERS ARE 25 GRID UNITS HIGH AND 4 UNITS WIDE (EXCEPT LETTER "I" AND THE NUMBER "1" WHICH ARE 1 UNIT WIDE).
- 2- VERTICAL STROKES ARE 1 UNIT WIDE, HORIZONTAL STROKES ARE 4 UNITS HIGH.
- 3- SPACE 1 UNIT (MIN.) BETWEEN CHARACTERS OR AS OTHERWISE SHOWN (OPTICAL SPACING MAY BE USED).
- 4- STANDARD CHARACTER HEIGHTS ARE 8'-4". EXCEPT FOR THE 6' RAILROAD 'R' SYMBOL AND THE TWO-LANE 10' SCHOOL SYMBOL.
- 5- FOR 8'-4" HIGH CHARACTERS, THE WIDTH IS 16" (USE 4" FOR EACH GRID SQUARE).
- 6- FOR 10' HIGH CHARACTERS, THE WIDTH IS 20" (USE 5" FOR EACH GRID SQUARE).
- 7- FOR 6' HIGH CHARACTERS, THE WIDTH IS 11½" (USE 2⅞" FOR EACH GRID SQUARE).

1-18

ROADWAY STANDARD DRAWING FOR

**PAVEMENT MARKINGS**

STANDARD ALPHABET AND SYMBOLS FOR  
HIGHWAY PAVEMENT MARKING (USDOT-FHWA)

SHEET 8 OF 9

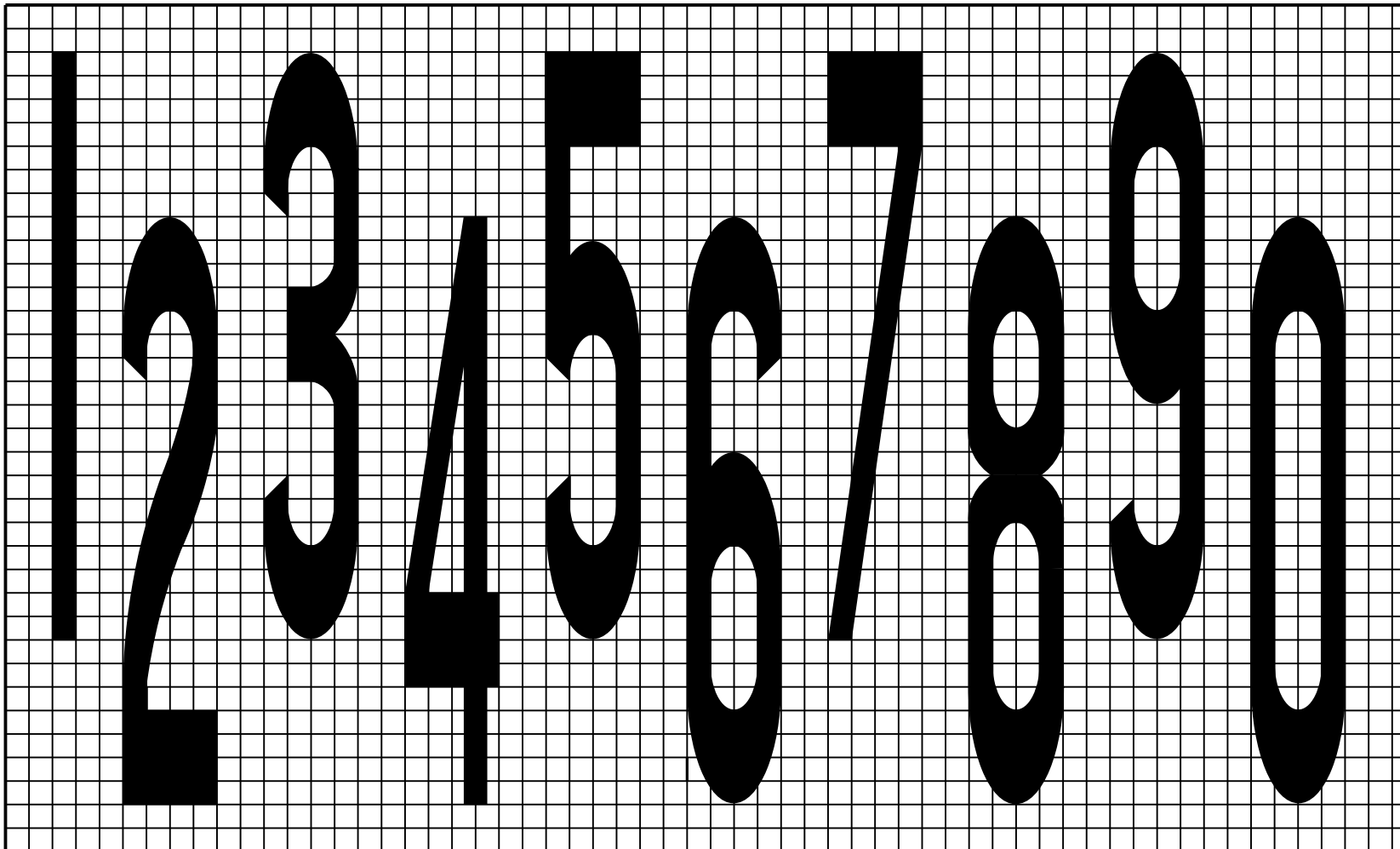
1205.08

STATE OF

NORTH CAROLINA

DEPT. OF TRANSPORTATION

DIVISION OF HIGHWAYS  
RALEIGH, N.C.



GENERAL NOTES:

- 1- STANDARD CHARACTERS ARE 25 GRID UNITS HIGH AND 4 UNITS WIDE (EXCEPT LETTER "I" AND THE NUMBER "1" WHICH ARE 1 UNIT WIDE).
- 2- VERTICAL STROKES ARE 1 UNIT WIDE, HORIZONTAL STROKES ARE 4 UNITS HIGH.
- 3- SPACE 1 UNIT (MIN.) BETWEEN CHARACTERS OR AS OTHERWISE SHOWN (OPTICAL SPACING MAY BE USED).
- 4- STANDARD CHARACTER HEIGHTS ARE 8'-4". EXCEPT FOR THE 6' RAILROAD 'R' SYMBOL AND THE TWO-LANE 10' SCHOOL SYMBOL.
- 5- FOR 8'-4" HIGH CHARACTERS, THE WIDTH IS 16" (USE 4" FOR EACH GRID SQUARE).
- 6- FOR 10' HIGH CHARACTERS, THE WIDTH IS 20" (USE 5" FOR EACH GRID SQUARE).
- 7- FOR 6' HIGH CHARACTERS, THE WIDTH IS 11½" (USE 2⅞" FOR EACH GRID SQUARE).