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T.I.P.: HI-0018

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING PLAN
COLUMBUS COUNTY

INDEX

SHEET NO.	DESCRIPTION
PMP-1	PAVEMENT MARKING PLAN TITLE AND SCHEDULE SHEET
PMP-2-8	SELECT STANDARD DRAWING DETAILS

PAVEMENT MARKING SCHEDULE

ITEM NO.		ITEM DESCRIPTION	QUANTITY	UNIT
DESC. NO.	SECT. NO.			
4688000000-E	1205	THERMOPLASTIC PAVEMENT MARKING LINES (6" , 90 MILS)	415,491	LF
4700000000-E	1205	THERMOPLASTIC PAVEMENT MARKING LINES (12" , 90 MILS)	11,200	LF
4725000000-E	1205	THERMOPLASTIC PAVEMENT MARKING SYMBOLS (90 MILS)	32	EA
4846000000-E	1205	POLYUREA LINES (6") (20 MIL)	3,875	LF
4895000000-N	SP	GENERIC PAVEMENT MARKING ITEM POLYCARBONATE H-SHAPED MARKERS	2,306	EA
4900000000-N	1251	PERMANENT RAISED PAVEMENT MARKERS	24	EA

GENERAL NOTES

- THE FOLLOWING GENERAL NOTES APPLY AT ALL TIMES FOR THE DURATION OF THE CONSTRUCTION PROJECT, EXCEPT WHEN OTHERWISE NOTED IN THE PLAN, OR DIRECTED BY THE ENGINEER.
- A) INSTALL PAVEMENT MARKINGS AND PAVEMENT MARKERS ON THE FINAL SURFACE AS FOLLOWS:
- | | | |
|--------------------|---------------|----------------------------|
| ROAD NAME | MARKING | MARKER |
| US-74 | THERMOPLASTIC | NON CAST-IRON SNOWPLOWABLE |
| US-74 BRIDGE DECKS | POLYUREA | PERMANENT RAISED |
- D) TIE PROPOSED PAVEMENT MARKING LINES TO EXISTING PAVEMENT MARKING LINES.
- E) REMOVE/REPLACE ANY CONFLICTING/DAMAGED PAVEMENT MARKINGS AND MARKERS.
- H) REMOVE ALL RESIDUE AND SURFACE LAITANCE BY ACCEPTABLE METHODS ON CONCRETE BRIDGE DECKS PRIOR TO PLACING POLYUREA PAVEMENT MARKING MATERIAL.
- I) UNLESS OTHERWISE SPECIFIED, HEATED-IN-PLACE THERMOPLASTIC MAY BE USED IN LIEU OF EXTRUDED THERMOPLASTIC FOR STOP BARS, SYMBOLS, CHARACTERS AND DIAGONALS. IF HEATED-IN-PLACE IS USED, IT SHALL BE PAID FOR USING THE EXTRUDED THERMOPLASTIC PAY ITEM.

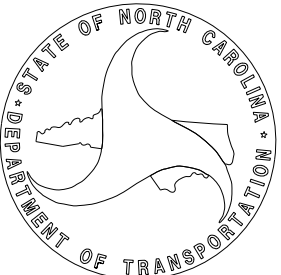
ROADWAY STANDARD DRAWING

THE FOLLOWING ROADWAY STANDARDS AS APPEAR IN "ROADWAY STANDARD DRAWINGS" - PROJECT SERVICES UNIT - N.C. DEPARTMENT OF TRANSPORTATION - RALEIGH, N.C., DATED JANUARY 2024 ARE APPLICABLE TO THIS PROJECT AND BY REFERENCE HEREBY ARE CONSIDERED A PART OF THESE PLANS:

STD. NO.	TITLE
1205.01	PAVEMENT MARKINGS - LINE TYPES AND OFFSETS
1205.02	PAVEMENT MARKINGS - TWO-LANE AND MULTILANE ROADWAYS
1205.03	PAVEMENT MARKINGS - EXIT AND ENTRANCE RAMPS
1205.04	PAVEMENT MARKINGS - INTERSECTIONS
1205.05	PAVEMENT MARKINGS - TURN LANES
1205.08	PAVEMENT MARKINGS - SYMBOLS AND WORD MESSAGES
1205.12	PAVEMENT MARKINGS - BRIDGES
1205.15	PAVEMENT MARKINGS - SUPERSTREETS
1250.01	RAISED PAVEMENT MARKERS - INSTALLATION SPACING
1251.01	RAISED PAVEMENT MARKERS - PERMANENT AND TEMPORARY
1261.01	GUARDRAIL AND BARRIER DELINEATORS - INSTALLATION SPACING
1261.02	GUARDRAIL AND BARRIER DELINEATORS - TYPES AND MOUNTING
1262.01	GUARDRAIL END DELINEATION

PLAN SUBMITTED TO: NCDOT SIGNING AND DELINEATION UNIT

<u>Mitch Eaton, PE</u>	SIGNING AND DELINATION REGIONAL ENGINEER
<u>Stacey Johns</u>	SIGNING AND DELINATION PROJECT DESIGN ENGINEER



PLAN PREPARED BY: THIGPEN ENGINEERING

<u>A. Matthew Thigpen, PE</u>	President
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TIP NO.
HI-0018

SHEET NO.
PMP-1

APPROVED:

DocuSigned by:
Matthew Thigpen
720285FD315433...

DATE: 1/8/2025

SEAL

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CONTINUOUS LINES

EDGE LINE

YELLOW OR WHITE

4" / 6"

LANE LINE

WHITE

4" / 6"

CENTER LINE

YELLOW

4" / 6"

GORE LINE

WHITE

8" / 12"

DIAGONAL LINE

YELLOW OR WHITE

12" 45 MPH OR HIGHER
8" LESS THAN 45 MPH

CROSSWALK LINE

WHITE

8" TRANSVERSE
24" LONGITUDINAL

RxR LINE

WHITE

16"

STOP OR TRANSVERSE BAR

WHITE

24"

10'-30'/SP SKIP LINE

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

10'

30'

4" / 6"

YELLOW OR WHITE

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 BICYCLE LANE EXTENSIONS.

2'

6'

4" / 6"

YELLOW OR WHITE

3'-3'/SP MINI-SKIP LINE

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

3'

3'

8" / 12"

WHITE

3'-9'/SP MINI-SKIP LINE

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

3'

9'

4" / 6"

WHITE

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.

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RALEIGH, N.C.

1-24

ROADWAY STANDARD DRAWING FOR
PAVEMENT MARKINGS
LINE TYPES AND OFFSETS

SHEET 1 OF 2
1205.01

EDGE LINE OFFSET DETAIL

SHOULDER

WHITE OR YELLOW EDGE LINE

2" MAX., REFER ALSO TO TABLE 1
E.O.T.

CENTER LINE OFFSET DETAIL

YELLOW CENTER LINE

3" / 3"

6"

LANE LINE OFFSET DETAIL

WHITE LANE LINE

2" TOWARDS LEFT SIDE
OF TRAVELWAY

TABLE 1

EDGE LINE OFFSETS FOR 2-LANE, 2-WAY ROADWAYS WITH UN-PAVED SHOULDERS

WIDTH (W) OF TRAVEL PAVEMENT	MAX. EDGE LINE OFFSET FROM E.O.T.	MINIMUM LANE WIDTH (W)
16' - 18'	2"	8' - 9'
19'	4"	9'
20'	6"	9.5'
21'	8"	10'
22'	10"	10'
23'	10"	10.5'
24'	1'	11'
26'	2'	11'
28'	2'	12'
30'	3'	12'
32'	4'	12'

LEGEND
W = WIDTH OF TRAVEL LANE
E.O.T.= EDGE OF TRAVEL
DIRECTION OF TRAFFIC FLOW

TWO-WAY UNDIVIDED ROADWAY

SEE EDGE LINE OFFSET DETAIL

SEE CENTER LINE OFFSET DETAIL

TWO-WAY UNDIVIDED ROADWAY WITH TWO-WAY LEFT TURN LANE

SEE EDGE LINE OFFSET DETAIL

SEE CENTER LINE OFFSET DETAIL

MULTI-LANE ROADWAY

SEE EDGE LINE OFFSET DETAIL

SEE LANE LINE OFFSET DETAIL

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ROADWAY STANDARD DRAWING FOR
PAVEMENT MARKINGS
LINE TYPES AND OFFSETS

SHEET 2 OF 2
1205.01

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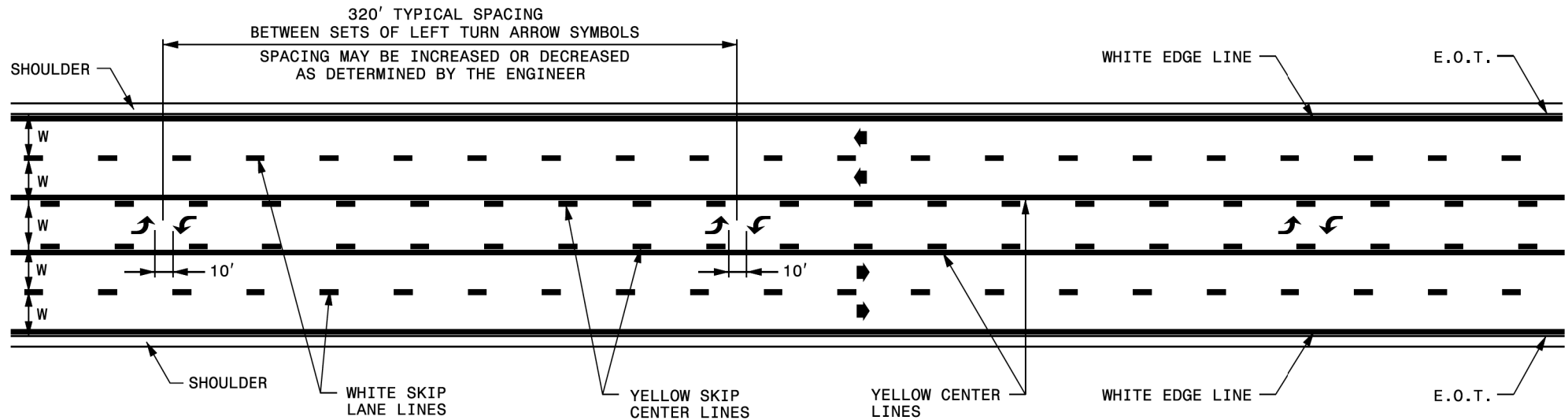
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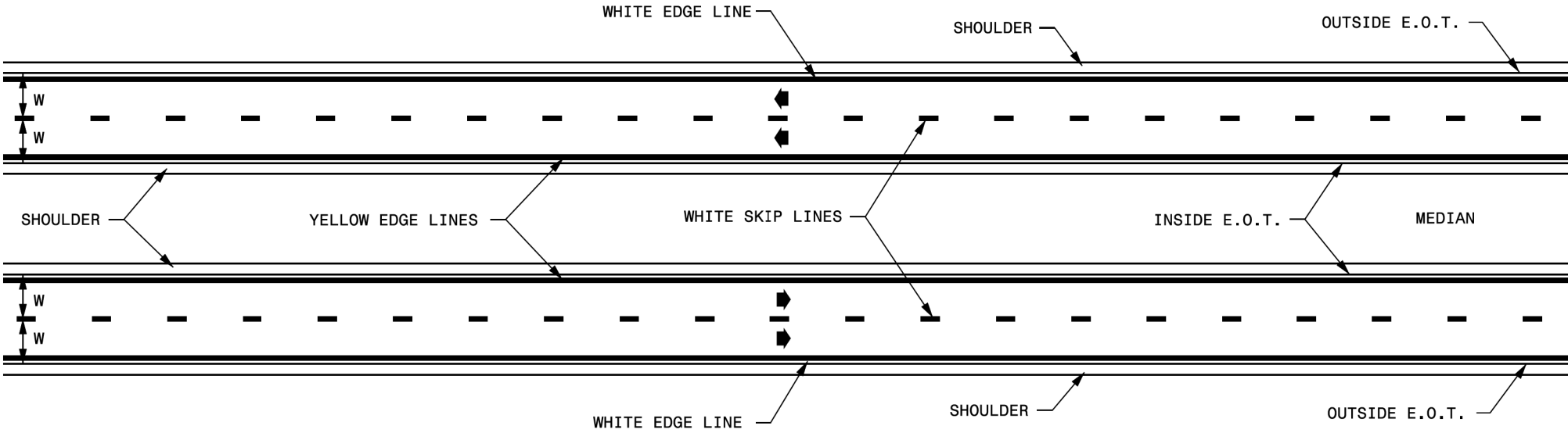


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UNDIVIDED MULTI-LANE ROADWAY
WITH TWO-WAY LEFT TURN LANE



DIVIDED FOUR-LANE ROADWAY



GENERAL NOTES:

- EDGE LINES ARE NOT REQUIRED ALONG CURB AND GUTTER LOCATIONS.
- CONTINUE EDGE LINES THROUGH MINOR DRIVENWAYS. DO NOT CONTINUE EDGE LINES AT INTERSECTIONS AND MAJOR DRIVENWAYS, SEE ROADWAY STANDARD DRAWING 1205.05 FOR ADDITIONAL GUIDANCE.
- REFER TO ROADWAY STANDARD DRAWINGS 1205.01 AND 1205.08 FOR ADDITIONAL PAVEMENT MARKING GUIDANCE.

LEGEND

W = WIDTH OF TRAVEL LANE

E.O.T.= EDGE OF TRAVEL

DIRECTION OF TRAFFIC FLOW

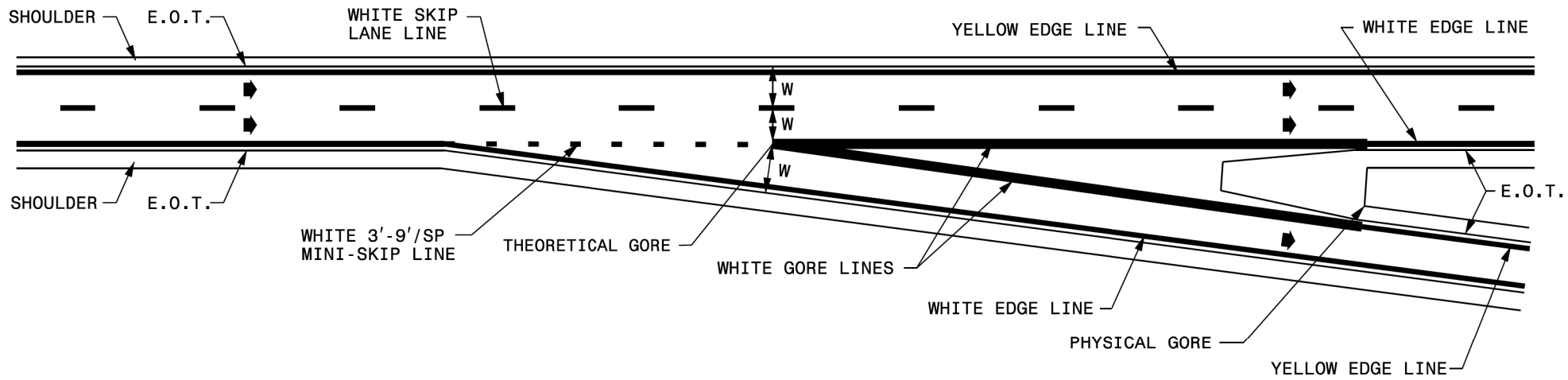
PAVEMENT MARKING SYMBOLS

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ROADWAY STANDARD DRAWING FOR
PAVEMENT MARKINGS
TWO-LANE AND MULTI-LANE ROADWAYS

SHEET 2 OF 2
1205.02

TAPERED DECELERATION LANE



GENERAL NOTES:

- LINE WIDTH ON ENTRANCE AND EXIT RAMP SHALL MATCH THE LINE WIDTH ON THE MAINLINE.
- GORE LINE MARKINGS TERMINATE AT THE PHYSICAL GORE.
- GORE LINES SHALL BE TWICE THE WIDTH OF THE NORMAL LINE.
- REFER TO ROADWAY STANDARD DRAWING 1205.01 FOR ADDITIONAL PAVEMENT MARKING GUIDANCE.

LEGEND

W = WIDTH OF TRAVEL LANE

E.O.T.= EDGE OF TRAVEL

DIRECTION OF TRAFFIC FLOW


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ROADWAY STANDARD DRAWING FOR
PAVEMENT MARKINGS
EXIT AND ENTRANCE RAMP

SHEET 1 OF 3
1205.03

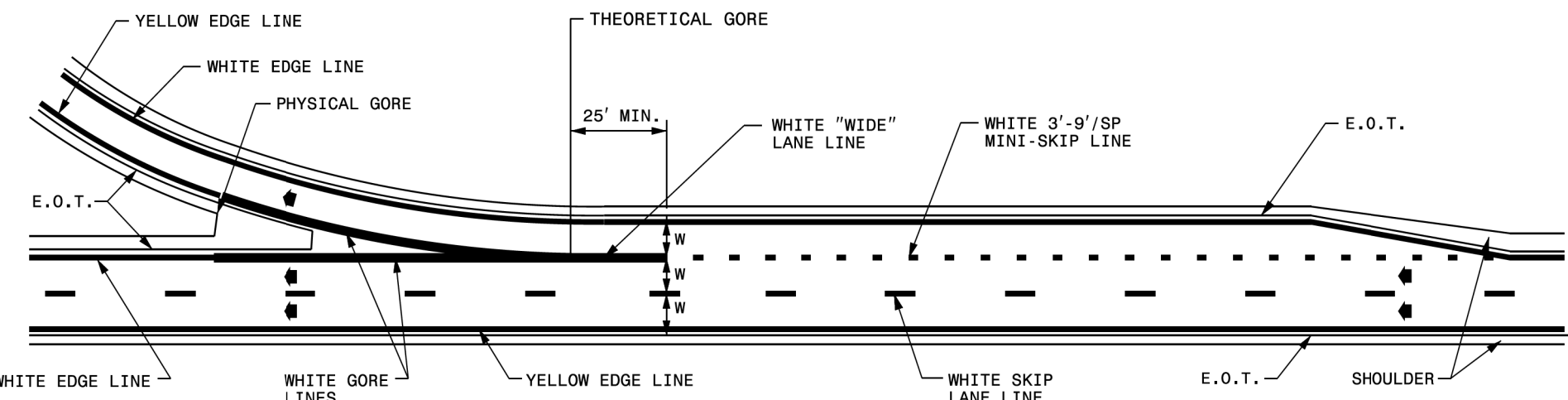
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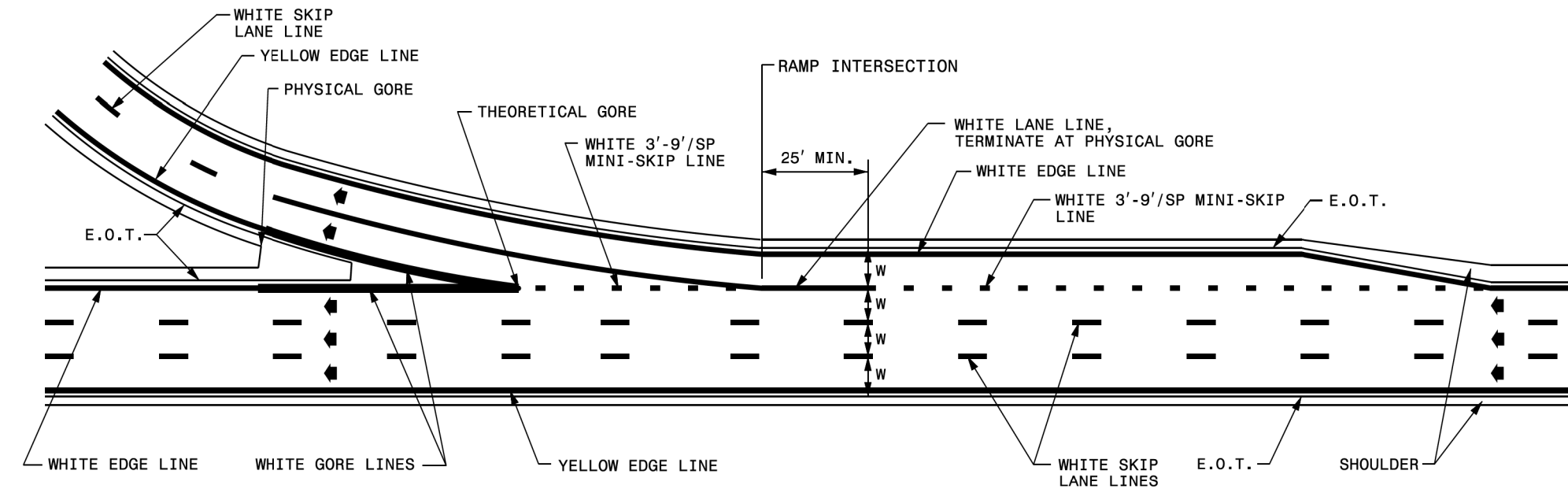


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PARALLEL DECELERATION LANE



PARALLEL DECELERATION LANE AT A MULTI-LANE EXIT



GENERAL NOTES:

- 1- LINE WIDTH ON ENTRANCE AND EXIT RAMP SHALL MATCH THE LINE WIDTH ON THE MAINLINE.
- 2- GORE LINE MARKINGS TERMINATE AT THE PHYSICAL GORE.
- 3- LANE LINES INDICATED AS "WIDE" SHALL BE AT LEAST TWICE THE WIDTH OF THE NORMAL LINE.
- 4- GORE LINES SHALL BE TWICE THE WIDTH OF THE NORMAL LINE.
- 5- REFER TO ROADWAY STANDARD DRAWING 1205.01 FOR ADDITIONAL PAVEMENT MARKING GUIDANCE.

LEGEND

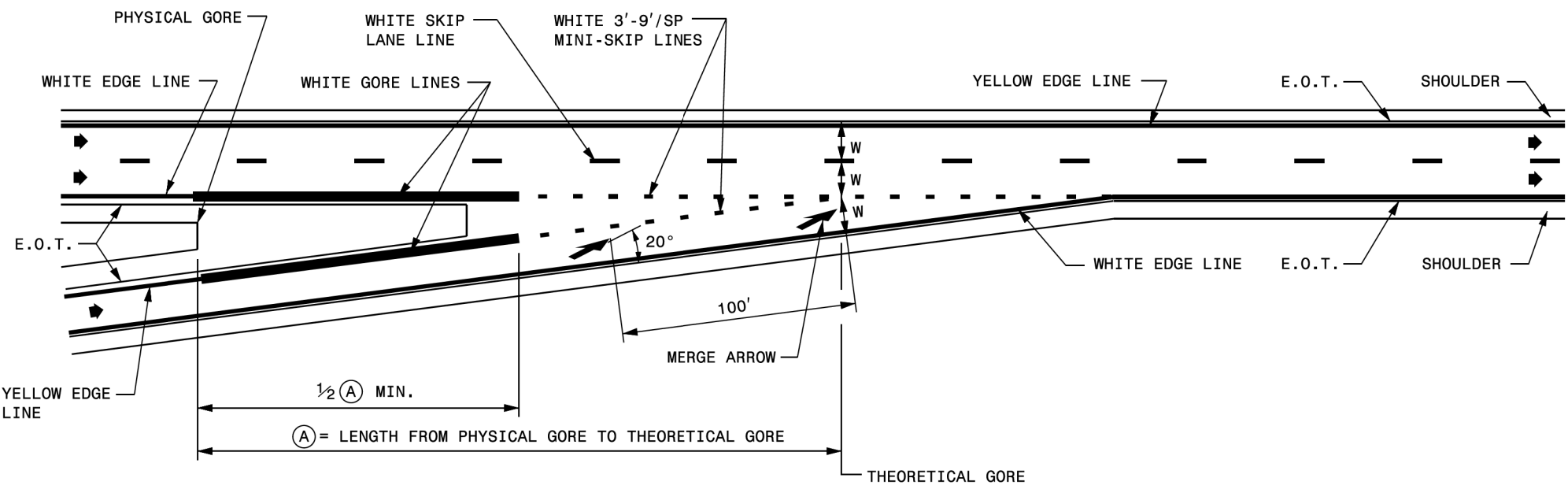
W = WIDTH OF TRAVEL LANE
E.O.T.= EDGE OF TRAVEL
● DIRECTION OF TRAFFIC FLOW

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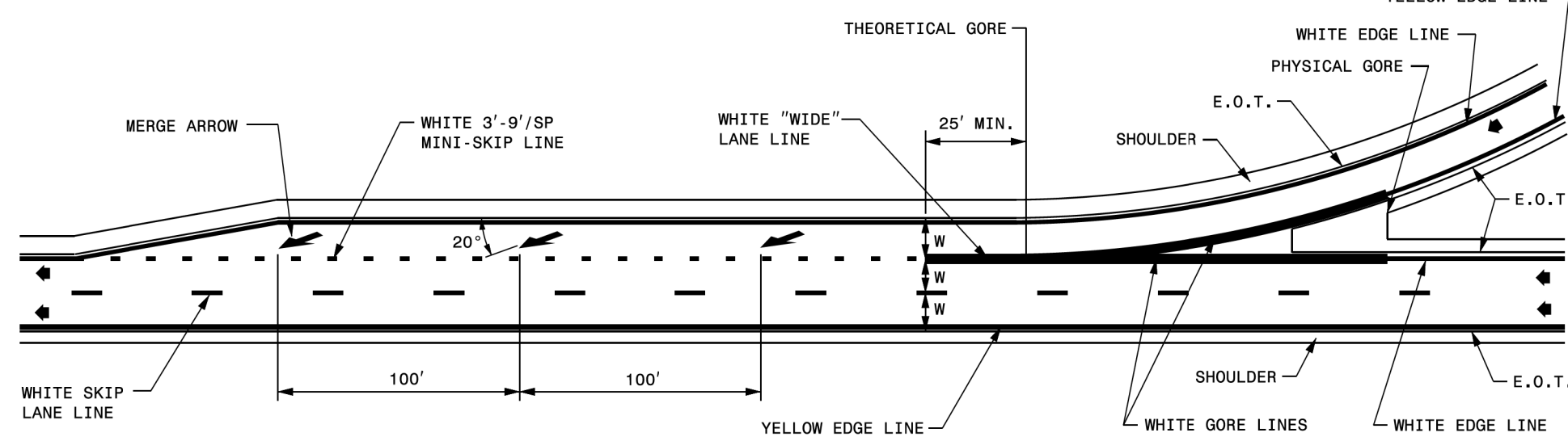
ROADWAY STANDARD DRAWING FOR
PAVEMENT MARKINGS
EXIT AND ENTRANCE RAMP

SHEET 2 OF 3
1205.03

TAPERED ACCELERATION LANE



PARALLEL ACCELERATION LANE



GENERAL NOTES:

- 1- LINE WIDTH ON ENTRANCE AND EXIT RAMP SHALL MATCH THE LINE WIDTH ON THE MAINLINE.
- 2- GORE LINE MARKINGS TERMINATE AT THE PHYSICAL GORE.
- 3- LANE LINES INDICATED AS "WIDE" SHALL BE AT LEAST TWICE THE WIDTH OF THE NORMAL LINE.
- 4- GORE LINES SHALL BE TWICE THE WIDTH OF THE NORMAL LINE.
- 5- REFER TO ROADWAY STANDARD DRAWINGS 1205.01 AND 1205.08 FOR ADDITIONAL PAVEMENT MARKING GUIDANCE.

LEGEND

W = WIDTH OF TRAVEL LANE
E.O.T.= EDGE OF TRAVEL
● DIRECTION OF TRAFFIC FLOW
▲ PAVEMENT MARKING SYMBOLS

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ROADWAY STANDARD DRAWING FOR
PAVEMENT MARKINGS
EXIT AND ENTRANCE RAMP

SHEET 3 OF 3
1205.03

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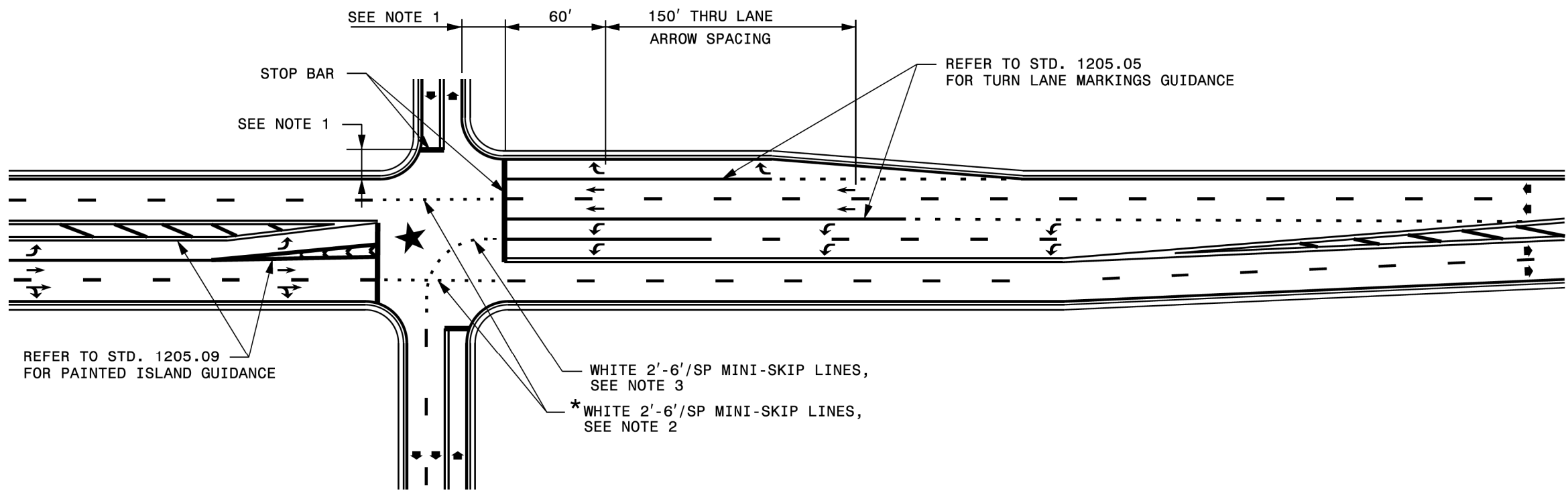


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SIGNALIZED MULTI-LANE ROADWAY WITH TURN BAYS



SEE NOTE 1
STOP BAR
SEE NOTE 1
60'
150' THRU LANE
ARROW SPACING
REFER TO STD. 1205.05
FOR TURN LANE MARKINGS GUIDANCE
REFER TO STD. 1205.09
FOR PAINTED ISLAND GUIDANCE
WHITE 2'-6"/SP MINI-SKIP LINES,
SEE NOTE 3
* WHITE 2'-6"/SP MINI-SKIP LINES,
SEE NOTE 2

GENERAL NOTES:

1- REFER TO THE PAVEMENT MARKING PLAN FOR STOP BAR LOCATIONS FOR SIGNALIZED INTERSECTIONS. IF A PAVEMENT MARKING PLAN IS NOT PROVIDED, CONTACT THE SIGNAL DESIGN SECTION FOR THE STOP BAR LOCATIONS OR AS DIRECTED BY THE ENGINEER.

2- MINI-SKIP LANE LINE EXTENSIONS SHOULD BE USED AT INTERSECTIONS THAT HAVE REDUCED VISIBILITY CONDITIONS SUCH AS OFFSET, SKEWED, OR CURVED ROADWAYS.

3- MINI-SKIP LANE LINE EXTENSIONS SHALL BE USED WHERE MULTIPLE TURN LANES ARE USED.

4- REFER TO ROADWAY STANDARD DRAWINGS 1205.01, 1205.02, 1205.05, 1205.08 AND 1205.09 FOR ADDITIONAL PAVEMENT MARKING GUIDANCE.

LEGEND

DIRECTION OF

TRAFFIC FLOW

PAVEMENT MARKING SYMBOLS

* OPTIONAL

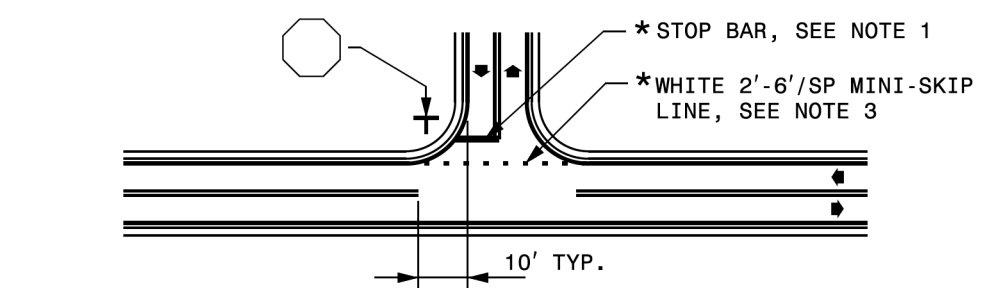
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ROADWAY STANDARD DRAWING FOR
PAVEMENT MARKINGS
INTERSECTIONS

SHEET 1 OF 2

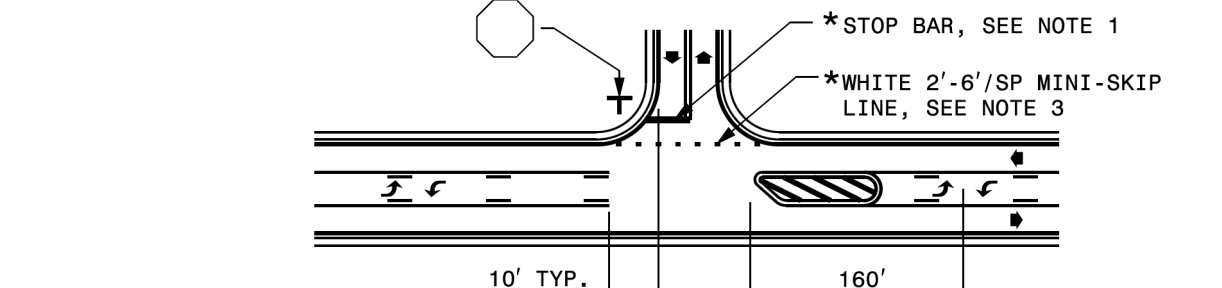
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TWO-LANE, TWO-WAY ROADWAY



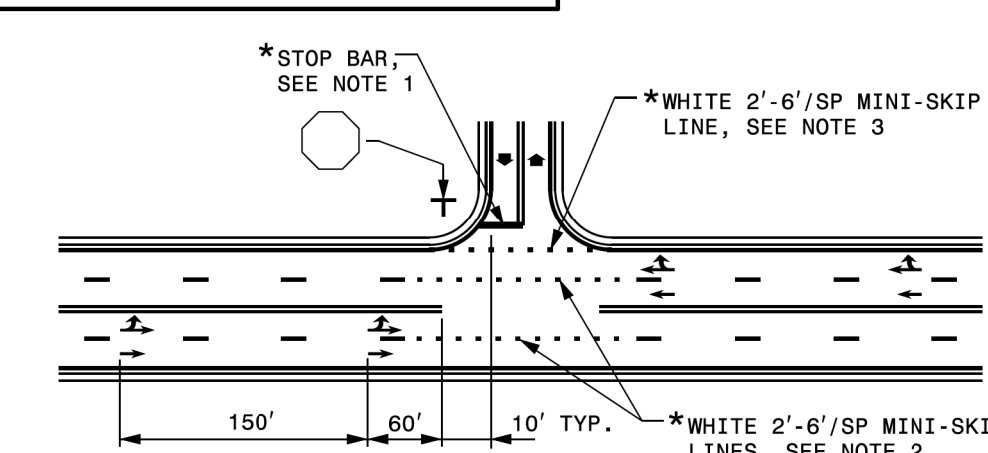
* STOP BAR, SEE NOTE 1
* WHITE 2'-6"/SP MINI-SKIP
LINE, SEE NOTE 3
10' TYP.

TWO-LANE, TWO-WAY ROADWAY WITH TWO-WAY LEFT TURN LANE



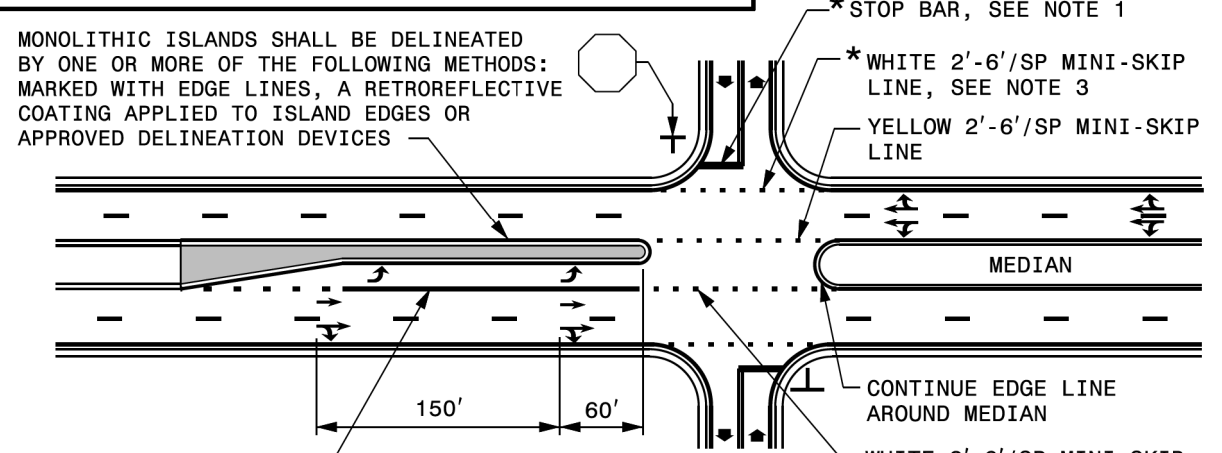
* STOP BAR, SEE NOTE 1
* WHITE 2'-6"/SP MINI-SKIP
LINE, SEE NOTE 3
10' TYP.
160'

UNDIVIDED MULTI-LANE ROADWAY



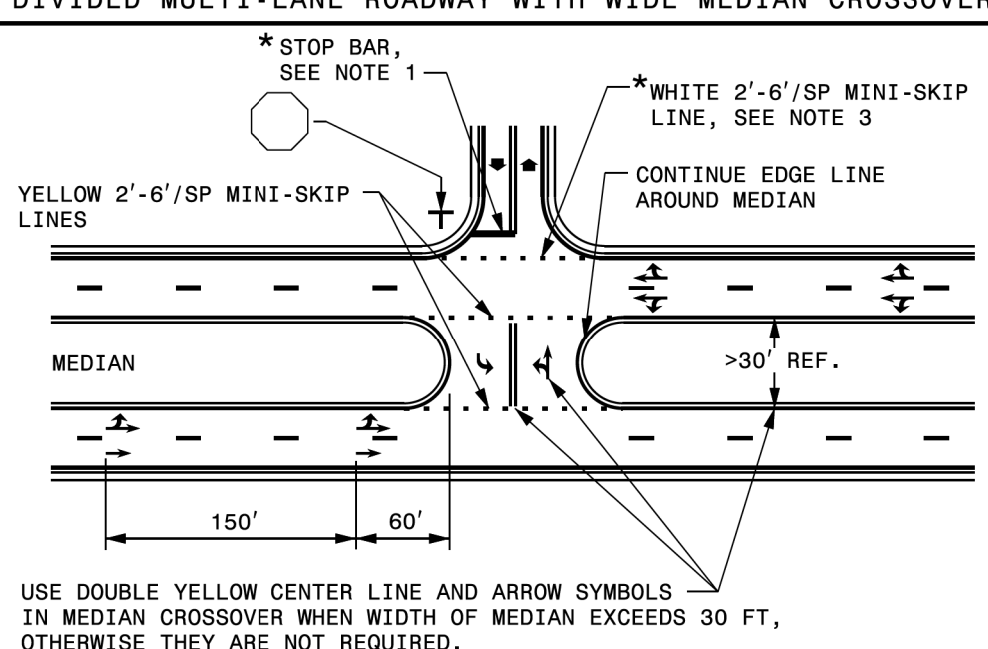
* STOP BAR, SEE NOTE 1
* WHITE 2'-6"/SP MINI-SKIP
LINE, SEE NOTE 3
150'
60'
10' TYP.
* WHITE 2'-6"/SP MINI-SKIP
LINES, SEE NOTE 2

DIVIDED MULTI-LANE ROADWAY WITH TURN BAY



* STOP BAR, SEE NOTE 1
* WHITE 2'-6"/SP MINI-SKIP
LINE, SEE NOTE 3
YELLOW 2'-6"/SP MINI-SKIP
LINE
MEDIAN
150'
60'
CONTINUE EDGE LINE
AROUND MEDIAN
WHITE 2'-6"/SP MINI-SKIP
LINE
REFER TO STD. 1205.05
FOR TURN LANE MARKING GUIDANCE

DIVIDED MULTI-LANE ROADWAY WITH WIDE MEDIAN CROSSOVER



* STOP BAR, SEE NOTE 1
* WHITE 2'-6"/SP MINI-SKIP
LINE, SEE NOTE 3
CONTINUE EDGE LINE
AROUND MEDIAN
YELLOW 2'-6"/SP MINI-SKIP
LINES
MEDIAN
150'
60'
>30' REF.
USE DOUBLE YELLOW CENTER LINE AND ARROW SYMBOLS
IN MEDIAN CROSSOVER WHEN WIDTH OF MEDIAN EXCEEDS 30 FT,
OTHERWISE THEY ARE NOT REQUIRED.

GENERAL NOTES:

1- PLACEMENT OF STOP BARS AT NON-SIGNALIZED INTERSECTIONS IS OPTIONAL AND USED WHERE IT IS IMPORTANT TO INDICATE THE POINT WHICH VEHICLES ARE REQUIRED TO STOP. PLACE STOP BARS NO LESS THAN 4 FEET AND NO MORE THAN 30 FEET FROM THE NEAREST EDGE OF THE INTERSECTING ROADWAY. USE 10 FEET AS THE TYPICAL SETBACK DISTANCE OR AS DIRECTED BY THE ENGINEER.

2- MINI-SKIP LANE LINE EXTENSIONS SHOULD BE USED AT INTERSECTIONS THAT HAVE REDUCED VISIBILITY CONDITIONS SUCH AS OFFSET, SKEWED, OR CURVED ROADWAYS.

3- MINI-SKIP EDGE LINE EXTENSIONS MAY BE PLACED THROUGH INTERSECTIONS AND MAJOR DRIVEWAYS.

4- REFER TO ROADWAY STANDARD DRAWINGS 1205.01, 1205.02, 1205.05, 1205.08 AND 1205.09 FOR ADDITIONAL PAVEMENT MARKING GUIDANCE.

LEGEND

STOP SIGN

STATIONARY SIGN

DIRECTION OF

TRAFFIC FLOW

PAVEMENT MARKING SYMBOLS

* OPTIONAL

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ROADWAY STANDARD DRAWING FOR
PAVEMENT MARKINGS
INTERSECTIONS


SHEET 2 OF 2

1205.04

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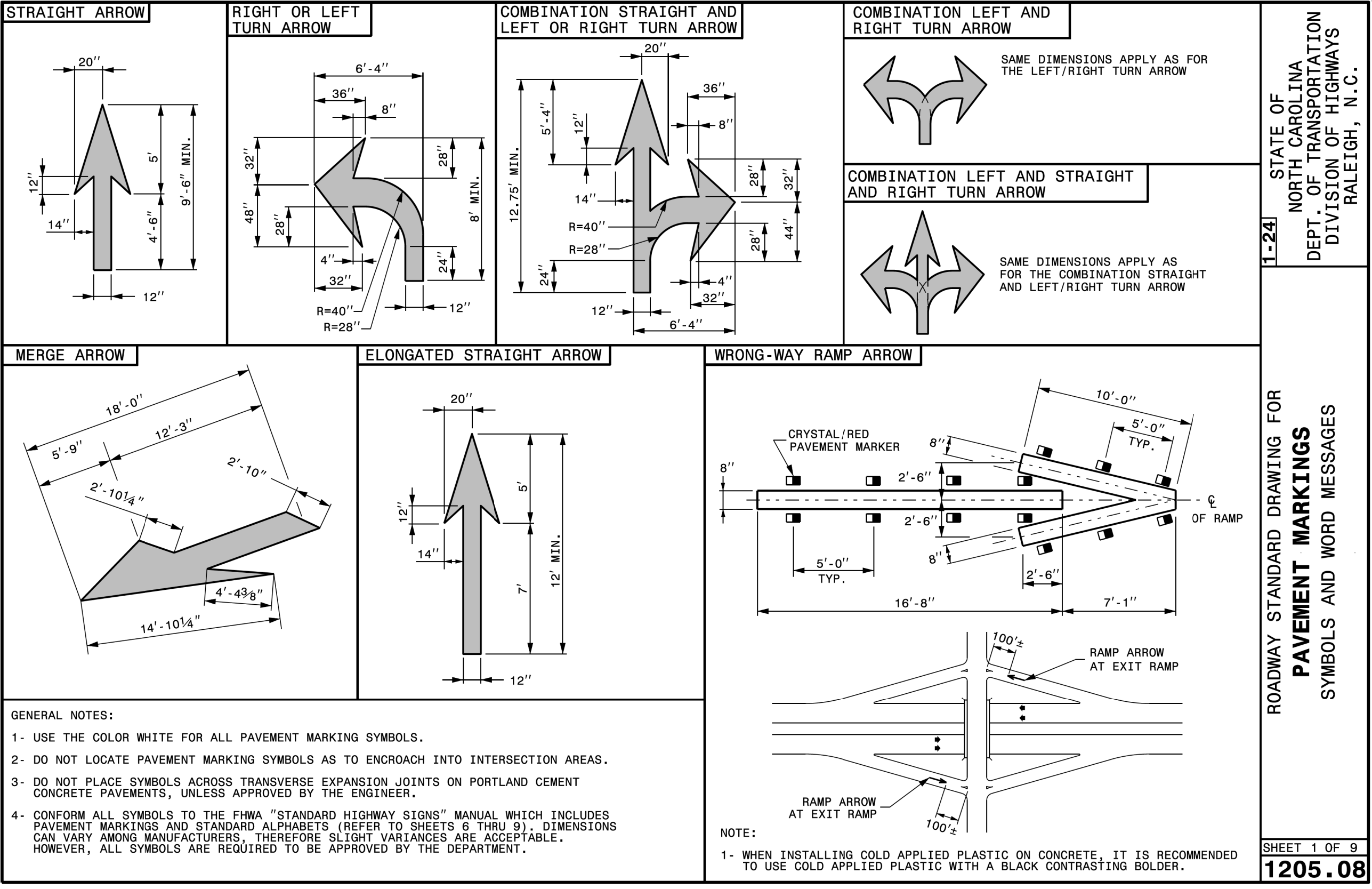
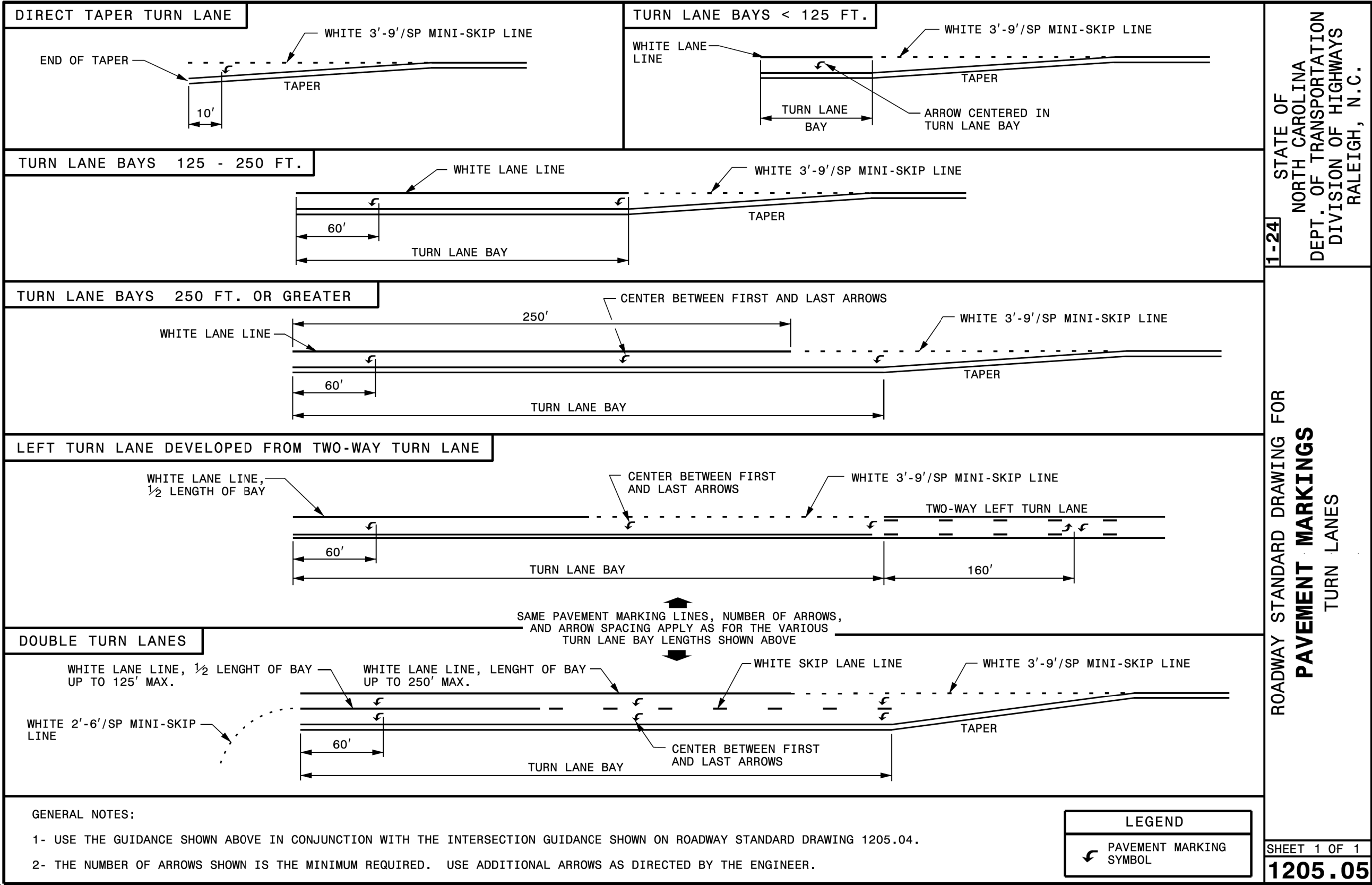
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SHEET NO.
PMP-6



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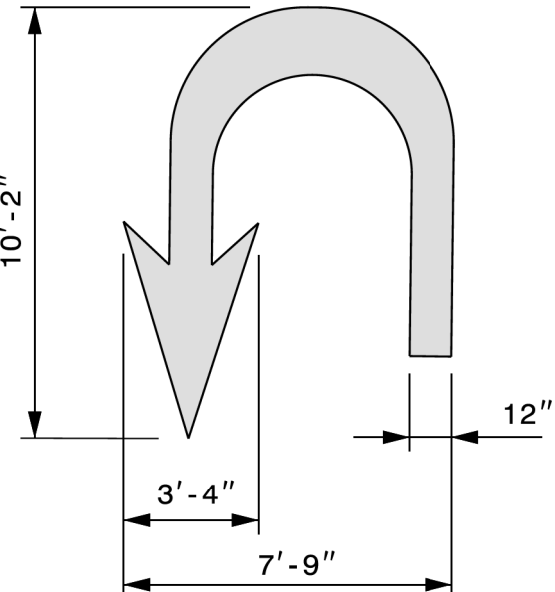
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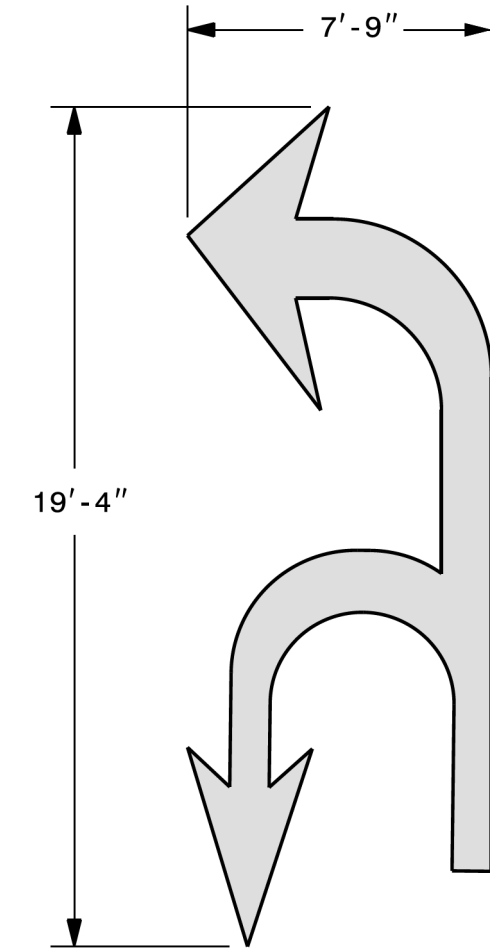
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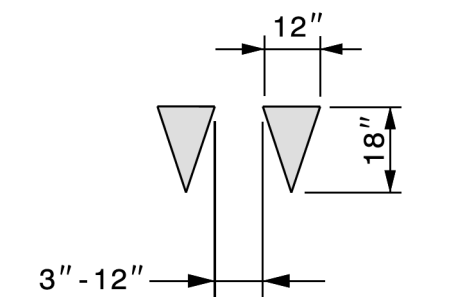
U-TURN ARROW LEFT



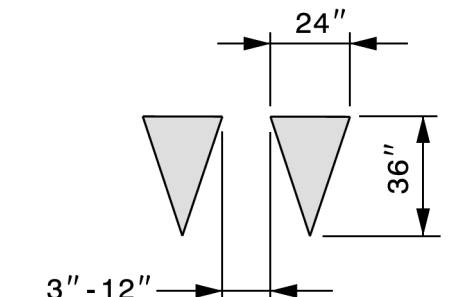
LEFT/U-TURN ARROW COMBINATION



12" YIELD LINE

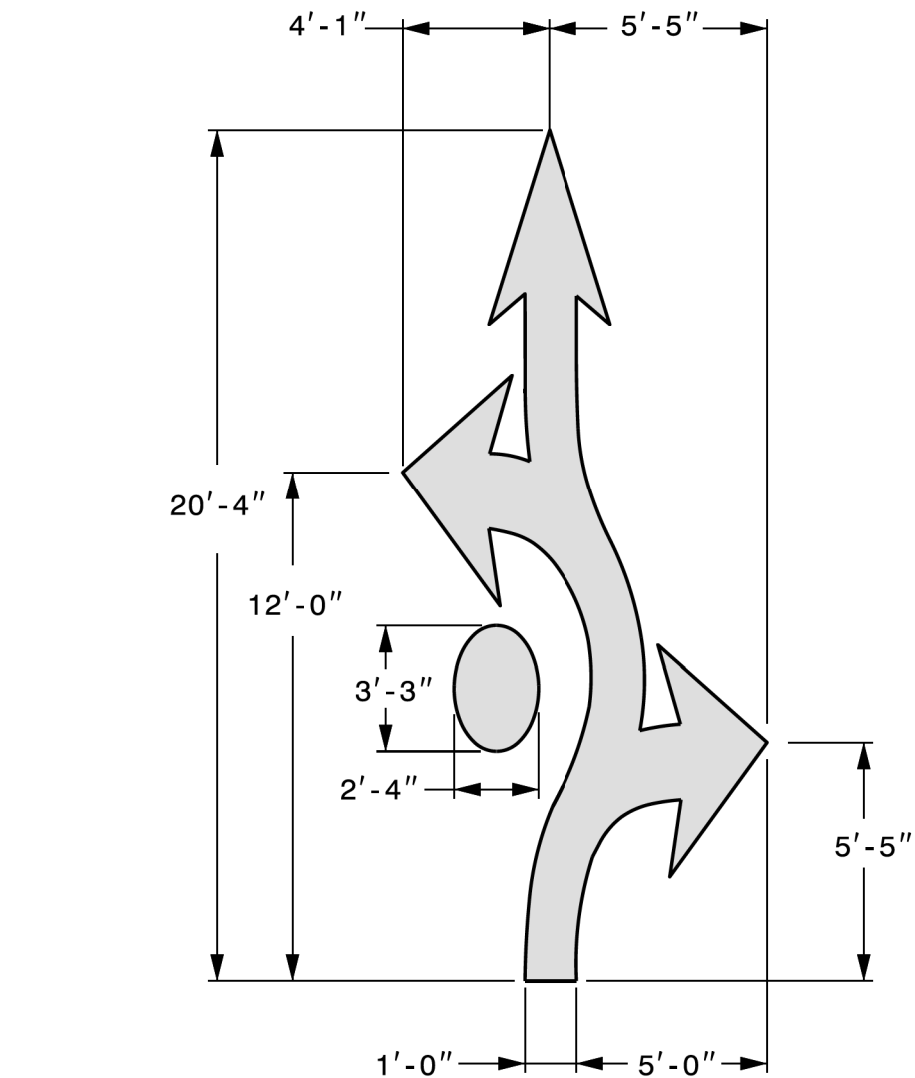


24" YIELD LINE



ROUNDABOUT FISH-HOOK ARROW TYPICAL

USE TYPICAL TO LAYOUT SYMBOL CONFIGURATION NEEDED



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 8 THRU 9). DIMENSIONS CAN VARY AMONG MANUFACTURERS, THEREFORE SLIGHT VARIANCES ARE ACCEPTABLE. HOWEVER, ALL SYMBOLS ARE REQUIRED TO BE APPROVED BY THE DEPARTMENT.

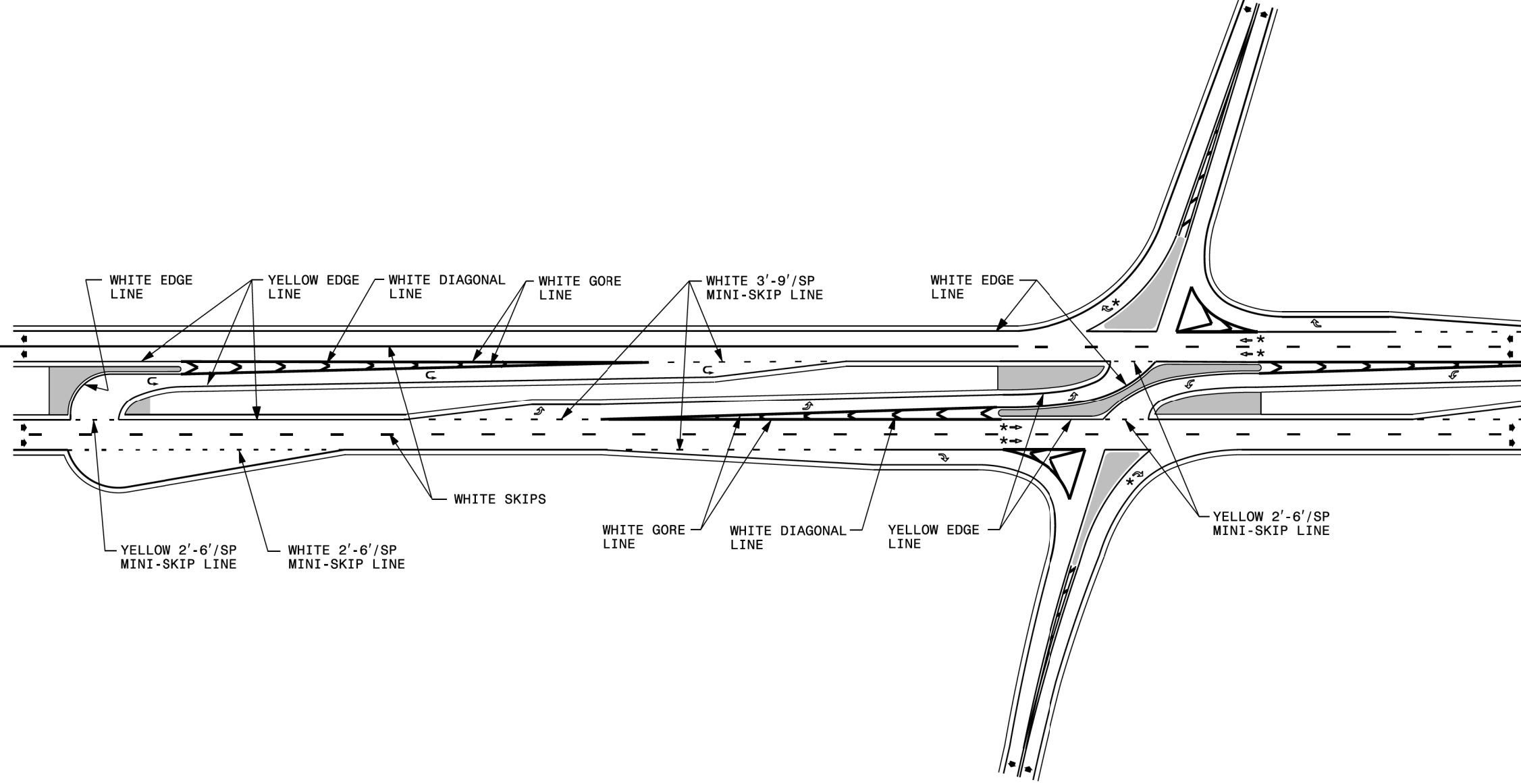
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DIVISION OF HIGHWAYS
RALEIGH, N.C.

1-24

ENGLISH STANDARD DRAWING FOR
PAVEMENT MARKINGS
SYMBOLS AND WORD MESSAGES

SHEET 2 OF 9
1205.08

STANDARD REDUCED CONFLICT INTERSECTION



GENERAL NOTES:

1- USE THE GUIDANCE SHOWN ABOVE IN CONJUNCTION WITH THE INTERSECTION GUIDANCE SHOWN ON ROADWAY STANDARD DRAWING 1205.04.

LEGEND

DIRECTION OF TRAFFIC FLOW

PAVEMENT MARKING SYMBOLS

OPTIONAL

STATE OF NORTH CAROLINA
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RALEIGH, N.C.

1-24


ROADWAY STANDARD DRAWING FOR
PAVEMENT MARKINGS
REDUCED CONFLICT INTERSECTIONS

SHEET 1 OF 2
1205.15

I04/2024
C:\Users\Matt.Thigpen\OneDrive\Projects\00085_HI-0018\Traffic\Pavement Marking\2018_PEF Pavement Marking Seed_08-13-19.dgn
User:Matt.Thigpen

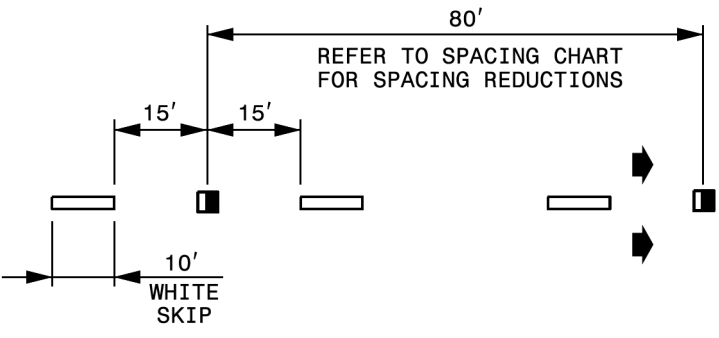
TIP NO.
HI-0018

SHEET NO.
PMP-8

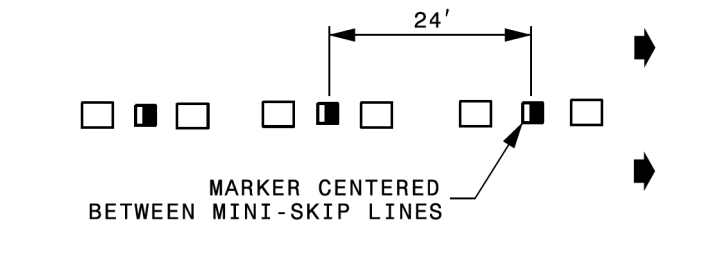
**THIGPEN**
ENGINEERING

3612 Griffice Mill Road
Raleigh, NC 27610
License: P-1116

10'-30'/SP SKIP LINE



3'-9'/SP MINI-SKIP LINE



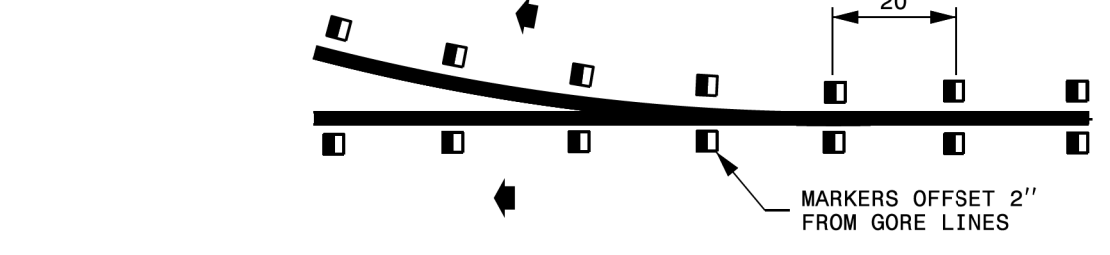
LEGEND

CRYSTAL/RED PAVEMENT MARKER

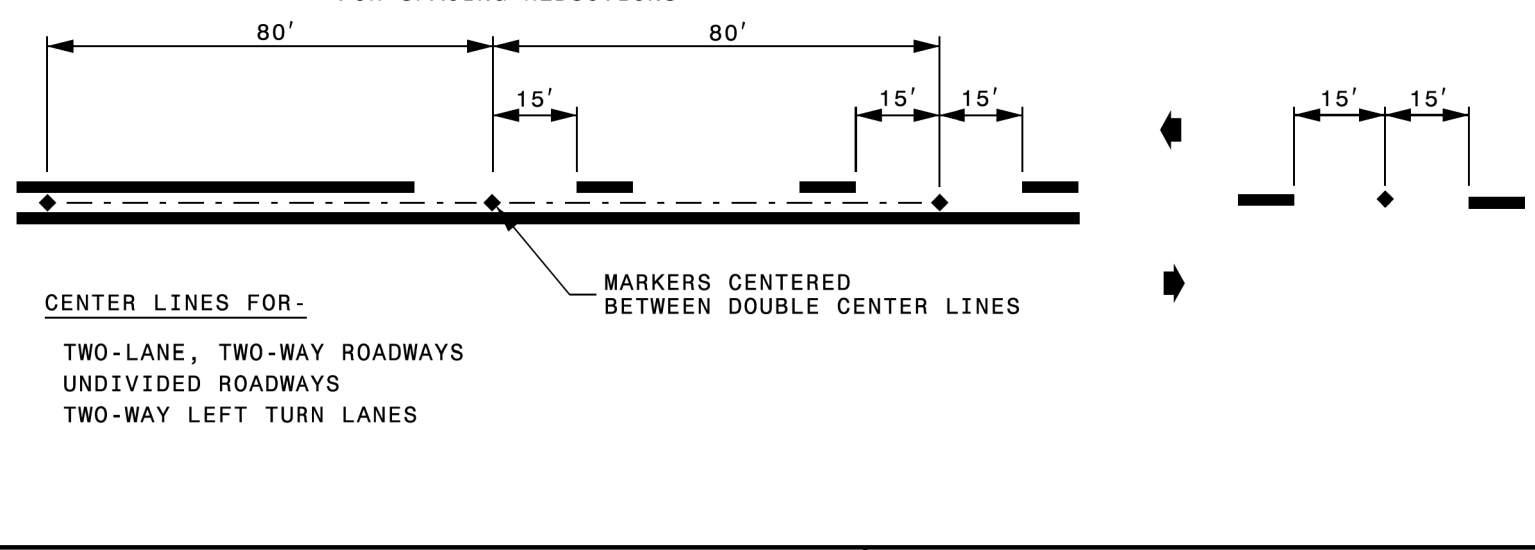
YELLOW/YELLOW PAVEMENT MARKER

DIRECTION OF TRAFFIC FLOW

GORE LINES



YELLOW CENTER LINES



DETAIL OF PAVEMENT MARKER PLACEMENT

SNOWPLOWABLE RAISED PAVEMENT MARKERS

RAISED REFLECTIVE PAVEMENT MARKERS

MARKERS CENTERED BETWEEN DOUBLE CENTER LINES

MARKERS CENTERED BETWEEN SKIP LINES

STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
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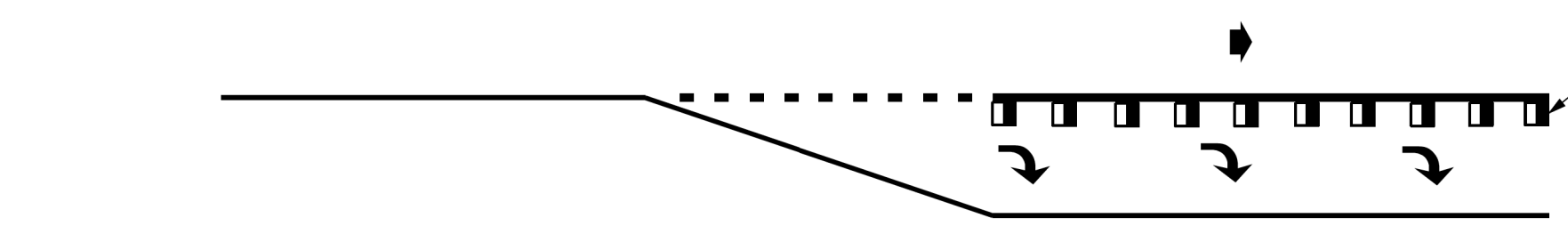
1-24

ROADWAY STANDARD DRAWING FOR
RAISED PAVEMENT MARKERS
INSTALLATION SPACING

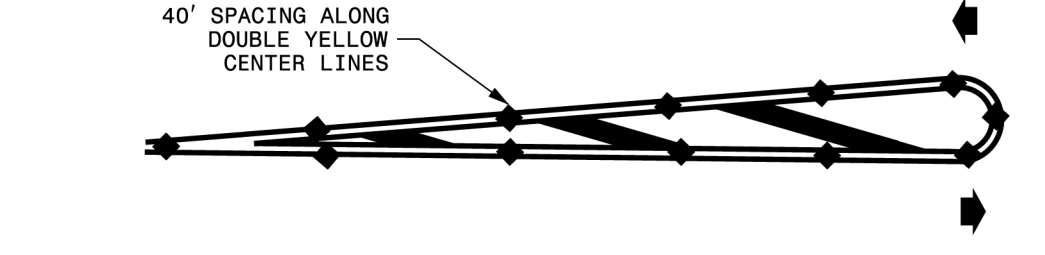
SHEET 2 OF 3

1250.01

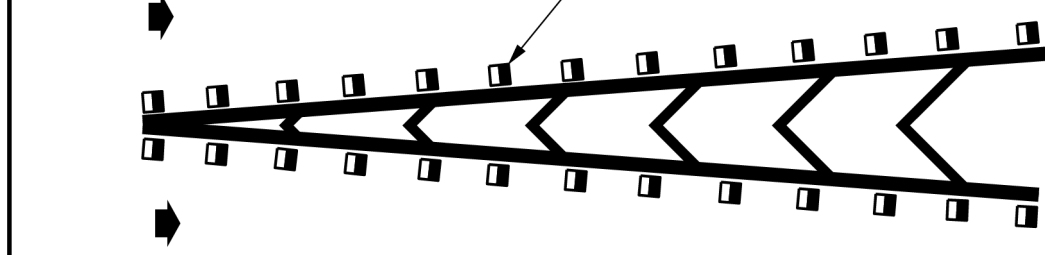
AUXILIARY TURN LANES



YELLOW PAINTED ISLANDS



WHITE PAINTED ISLANDS



LEGEND

DIRECTION OF TRAFFIC FLOW

CRYSTAL/RED PAVEMENT MARKER

YELLOW/YELLOW PAVEMENT MARKER

PAVEMENT MARKING SYMBOL

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1-24

ROADWAY STANDARD DRAWING FOR
RAISED PAVEMENT MARKERS
INSTALLATION SPACING

SHEET 3 OF 3

1250.01