



JULY 7, 2020
DATE

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ALBEMARLE ROAD SHOPS
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TRAFFIC CONTROL DETAILS

REVISIONS

PROJECT NO: 2019-13

SCALE: N.T.S.

DRAWN BY: PAB

CHECKED BY: MSL

SHEET NO:

C10.1

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

ENGLISH STANDARD DRAWING FOR
TRAFFIC CONTROL DESIGN TABLES
BUFFER SPACE & SIGHT DISTANCE

1101.11

TABLE REFERENCE - "L" DISTANCE TABLE

POSTER SPEED (MPH)	LATERAL WIDTH "W" (FEET)											
	1	2	3	4	5	6	7	8	9	10	11	12
30	15	15	20	25	30	35	40	45	50	55	60	65
35	15	20	25	30	35	40	45	50	55	60	65	70
40	15	20	25	30	35	40	45	50	55	60	65	70
45	15	20	25	30	35	40	45	50	55	60	65	70
50	15	20	25	30	35	40	45	50	55	60	65	70
55	15	20	25	30	35	40	45	50	55	60	65	70
60	15	20	25	30	35	40	45	50	55	60	65	70
65	15	20	25	30	35	40	45	50	55	60	65	70
70	15	20	25	30	35	40	45	50	55	60	65	70
75	15	20	25	30	35	40	45	50	55	60	65	70
80	15	20	25	30	35	40	45	50	55	60	65	70
85	15	20	25	30	35	40	45	50	55	60	65	70
90	15	20	25	30	35	40	45	50	55	60	65	70
95	15	20	25	30	35	40	45	50	55	60	65	70
100	15	20	25	30	35	40	45	50	55	60	65	70

GENERAL NOTES

- TABLE FOR "L" DISTANCE IS BASED ON CHANNELIZING TAPER FORMS FROM THE M.U.T.I.D. MANUAL.
- POSTER SPEED: 40 MPH OR LESS: $L = \frac{W^2}{10}$; 45 MPH OR GREATER: $L = \frac{W^2}{6.6}$
- MINIMUM TAPER LENGTH IN FEET (LONGITUDINAL DISTANCE)
- MINIMUM BUFFER SPACE IN FEET (LONGITUDINAL DISTANCE)
- POSTER SPEED LIMIT, OR OFF-PEAK OR PERCENTAGE SPEED IN MPH PRIOR TO WORK STARTING, OR THE ANTICIPATED OPERATING SPEED IN MPH
- "L" DISTANCE IS FOR APPLICATION WITH CHANNELIZING DEVICE AND PAYMENT MARKING TAPERS AND TRANSVERSE CHANNELIZING DEVICES INCLUDE CONES, CONES, TUBULAR MARKERS, BARRIERS, BARRIERS, BARRIERS, BARRIERS, AND TUBULAR MARKERS.

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ENGLISH STANDARD DRAWING FOR
TRAFFIC CONTROL DESIGN TABLES
"L" DISTANCE AND CHANNELIZING DEVICE TAPER CRITERIA

1101.11

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	1	2	3	4	5	6	7	8	9	10	11	12
30	15	15	20	25	30	35	40	45	50	55	60	65
35	15	20	25	30	35	40	45	50	55	60	65	70
40	15	20	25	30	35	40	45	50	55	60	65	70
45	15	20	25	30	35	40	45	50	55	60	65	70
50	15	20	25	30	35	40	45	50	55	60	65	70
55	15	20	25	30	35	40	45	50	55	60	65	70
60	15	20	25	30	35	40	45	50	55	60	65	70
65	15	20	25	30	35	40	45	50	55	60	65	70
70	15	20	25	30	35	40	45	50	55	60	65	70
75	15	20	25	30	35	40	45	50	55	60	65	70
80	15	20	25	30	35	40	45	50	55	60	65	70
85	15	20	25	30	35	40	45	50	55	60	65	70
90	15	20	25	30	35	40	45	50	55	60	65	70
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ENGLISH STANDARD DRAWING FOR
TRAFFIC CONTROL DESIGN TABLES
DRUM

1130.01

GENERAL NOTES

- BALLASTING SHALL BE ACCOMPLISHED BY THE BIDDING CONTRACTOR, OR PERFORMED WEIGHTED BARE DRUMS. USE THE TIRE BALLAST AS SPECIFIED BY THE MANUFACTURER. DO NOT PLACE BALLAST ON TOP OF THE DRUM.
- IF NECESSARY PLACE THE NAME OF THE AGENCY, CONTRACTOR, OR SUPPLIER ON NON-REFLECTIVE SURFACE. SHOW THE LETTERS AND NUMBERS IN A NON-REFLECTIVE COLOR AND NOT OVER 3" IN HEIGHT.
- USE TYPE B OR HIGHER HIGH INTENSITY PLUMMETIC SHEETING.
- SEE THE DEPARTMENT'S APPROVED PRODUCT LIST.
- REFER THE STANDARD SPECIFICATIONS FOR ROAD AND STRUCTURES FOR ADDITIONAL INFORMATION.

STATE OF NORTH CAROLINA
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ENGLISH STANDARD DRAWING FOR
PORTABLE WORK ZONE SIGNS
MOUNTING HEIGHT & LATERAL CLEARANCE

1110.02

GENERAL NOTES

- DIMENSIONS SHOWN ARE MINIMUM VALUES. PORTABLE SIGNS SHOULD BE CLEARLY VISIBLE TO TRAVELERS TRAVELING IN BOTH DIRECTIONS USE MOUNTED BEHIND TRAFFIC CONTROL DEVICES SUCH AS CONES, BARRIERS, OR OTHER DEVICES.
- ALL PORTABLE SIGNS AND STANDS MUST BE SET ON EXCESSIVE TO REQUIREMENTS OF MOUNTING HEIGHT FOR EACH TYPE OF DEVICE. USE PORTABLE WORK ZONE SIGNS AND STANDS SPECIFICALLY DESIGNED FOR EACH TYPE OF DEVICE.
- PORTABLE WORK ZONE SIGNS AND STANDS MUST BE LISTED ON THE DEPARTMENT'S APPROVED PRODUCT LIST AT: <http://apps.dot.nc.gov/ncdot/transportation/roadworkproducts>.

STATE OF NORTH CAROLINA
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ENGLISH STANDARD DRAWING FOR
TRAFFIC CONTROL DESIGN TABLES
TAPER LENGTH CRITERIA

1101.11

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30	15	15	20	25	30	35	40	45	50	55	60	65
35	15	20	25	30	35	40	45	50	55	60	65	70
40	15	20	25	30	35	40	45	50	55	60	65	70
45	15	20	25	30	35	40	45	50	55	60	65	70
50	15	20	25	30	35	40	45	50	55	60	65	70
55	15	20	25	30	35	40	45	50	55	60	65	70
60	15	20	25	30	35	40	45	50	55	60	65	70
65	15	20	25	30	35	40	45	50	55	60	65	70
70	15	20	25	30	35	40	45	50	55	60	65	70
75	15	20	25	30	35	40	45	50	55	60	65	70
80	15	20	25	30	35	40	45	50	55	60	65	70
85	15	20	25	30	35	40	45	50	55	60	65	70
90	15	20	25	30	35	40	45	50	55	60	65	70
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ENGLISH STANDARD DRAWING FOR
TRAFFIC CONTROL DESIGN TABLES
SPACING OF TEMPORARY SIGNS IN SERIES

1101.11

GENERAL NOTES

- REFER TO SIGN MANUAL.
- USE THESE STANDARD DRAWINGS IN CONNECTION WITH OTHER TRAFFIC CONTROL ROADWAY STANDAARDS SHOWN WITH SIGN BRACING DISTANCES A, B, C, AND REFLECTOR.
- SPACE THE SIGNING MARKING SIGN SPACING ABOUT THREE TIMES THE SIGN BRACING DISTANCE. ALL SIGN BRACING DISTANCES ARE APPROXIMATE. FIELD ADJUST AS VARIOUS CONDITIONS OCCUR, SUCH AS LIMITED SIGN SPACING, OBSTRUCTION, INTERFERENCES, ETC.

STATE OF NORTH CAROLINA
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ENGLISH STANDARD DRAWING FOR
CONES

1135.01

GENERAL NOTES

- ADHESIVE BALLASTING OF GREAT SPECIAL WEIGHTED SANDS SUCH AS GIBB SAND, BELLING CONES, OR SANDS THAT CAN BE FILLED WITH BALLAST. VERIFY PRESENT IF THE BEIGHT OF THE CONE MUST BE IN THE SAND. USE BALLASTS THAT DO NOT PRESENT A HAZARDOUS STRUCK.
- SEE THE DEPARTMENT'S APPROVED PRODUCT LIST AT: <http://apps.dot.nc.gov/ncdot/transportation/roadworkproducts>.
- USE TYPE B OR HIGHER HIGH INTENSITY PLUMMETIC SHEETING.

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ENGLISH STANDARD DRAWING FOR
FLAGGERS

1150.01

GENERAL NOTES

- USE HAND SIGNALING DEVICES SUCH AS STOP-SLOW PADDLES, FLAGGERS TO CONTROL TRAFFIC. USE STOP-SLOW PADDLES AS THE PRIMARY DEVICE.
- POSITION STOP-SLOW PADDLES FROM GREAT METAL OR OTHER LIGHT MORE ROBUST MATERIAL. POSITION A RIGID HANDLE OF SUFFICIENT LENGTH TO BE HELD AT 7 FEET ABOVE GROUND LEVEL.
- PROVIDE SUFFICIENT CLEARANCE TO EACH FLAGGER STATION (REFER TO STD. 1101.11 SHEET 02).
- ILLUMINATE FLAGGER STATIONS NIGHT OPERATIONS.
- FOLLOW FLAGGER QUALIFICATIONS AND METHODS OF HAND-SIGNALING PROCEDURES IN ACCORDANCE WITH PART VI OF THE MANUAL ON HIGHWAY TRAFFIC CONTROL DEVICES.
- ALL FLAGGERS MUST BE CERTIFIED BY AN AGENCY APPROVED SOURCE.