Typical Traffic Control

Shoulder Operation with Minor Encroachment

(Figure TTC-5.0)

NOTES

Standard

1. **On divided highways having a median wider than 8', right and left sign assemblies shall be required. See Note 1, TTC-4 for addition sign information.**

Guidance

2. *Sign spacing should be 1300'-1500' for Limited Access highways. For all other roadways, the sign spacing should be 500'-800' where the posted speed limit is greater than 45 mph, and 350'-500' where the posted speed limit is 45 mph or less.*
3. *When work takes up part of a lane on a high volume roadway, vehicular traffic volumes, vehicle mix, speed and capacity should be analyzed to determine whether the affected lane should be closed. Unless the lane encroachment analysis permits a remaining lane width of 10 feet, the lane should be closed. If the closure operation is on a Limited Access highway, the minimum lane width is 11 feet.*

Option:

4. The ROAD WORK AHEAD (W20-1) sign on an intersecting roadway may be omitted where drivers emerging from that roadway will encounter another advance warning sign prior to this activity area.

Standard:

5. **A shadow vehicle with either an arrow board operating in the caution mode, or at least one high-intensity amber rotating, flashing, oscillating, or strobe light shall be parked 80' - 120' in advance of the first work crew.**
6. **Vehicle hazard warning signals shall not be used instead of the vehicle's high-intensity amber rotating, flashing, oscillating, or strobe lights. Vehicle hazard warning signals can be used to supplement high-intensity amber rotating, flashing, oscillating, or strobe lights.**
7. **Taper length (L) and channelizing device spacing shall be at the following:**

Taper Length (L)				
Speed Limit (mph)	Lane Width (Feet)			
	9	10	11	12
25	95	105	115	125
30	135	150	165	180
35	185	205	225	245
40	240	270	295	320
45	405	450	495	540
50	450	500	550	600
55	495	550	605	660
60	540	600	660	720
65	585	650	715	780
70	630	700	770	840
Minimum taper lengths for Limited Access highways shall be 1000 feet.				
Shoulder Taper = ⅓ L Minimum				

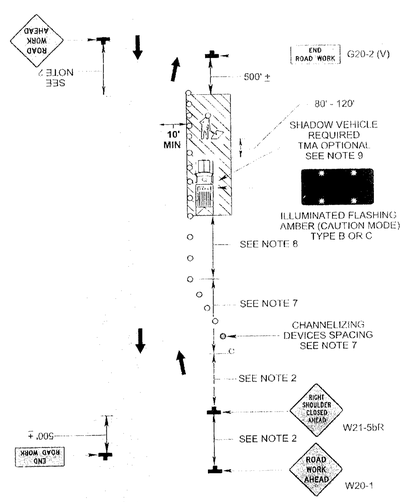
Channelizing Device Spacing		
Location	Speed Limit (mph)	
	0 - 35	36 +
Transition Spacing	20'	40'
Travelway Spacing	40'	80'
Construction Access*	80'	120'
* Spacing may be increased to this distance, but shall not exceed one access per ½ mile.		

On roadways with paved shoulders having a width of 8 feet or more, channelizing devices shall be used to close the shoulder in advance of the merging taper to direct vehicular traffic to remain within the traveled way.

8. **The buffer space length shall be as shown in Table 6H-3 on Page 6H-5 for the posted speed limit.**
9. **A truck-mounted attenuator (TMA) shall be used on Limited Access highways and multi-lane roadways with posted speed limit equal to or greater than 45 mph.**
10. **When a side road intersects the highway within the temporary traffic control zone, additional traffic control devices shall be placed as needed.**

Shoulder Operation with Minor Encroachment

(Figure TTC-5.0)



MAINTENANCE OF TRAFFIC

OR BETWEEN THE HOURS OF 6:30 AM TO 9:00 AM AND 3:30 PM AND 6:00 PM ON MONDAYS THROUGH FRIDAYS (EXCLUDING HOLIDAYS), UNLESS DIRECTED BY THE RESIDENT ENGINEER.

2. TRAFFIC SHALL NOT BE STOPPED ON THE ROADWAYS AND/OR CONNECTOR ROADS FOR LONGER THAN FIVE MINUTES AT ANY TIME, UNLESS OTHERWISE DIRECTED BY THE RESIDENT ENGINEER.
3. [illegible]
4. ACCESS TO ADJACENT PROPERTIES AND CONNECTING STREETS SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION.
5. WHEN CONSTRUCTION ACTIVITIES HAVE CEASED FOR THE DAY THE FOLLOWING OPERATIONS WILL BE PERFORMED TO ALLOW FOR TWO-WAY TRAFFIC TO RESUME TRAVEL:
   A. ALL TRAFFIC CONES SHALL BE RELOCATED TO THE EXISTING EDGE OF PAVEMENT.
   B. ALL SIGNAGE WITH THE EXCEPTION OF THE "ROAD WORK AHEAD" SIGN SHALL BE COVERED (SEE TRAFFIC CONTROL SIGNAGE NOTE 5)
6. BEFORE CONSTRUCTIN ACTIVITIES COMMENCE FOR THE DAY ALL OPERATONS IN NOTE 5 SHALL RESUME NORMAL TRAFFIC CONTROL STATUS.

SUGGESTED SEQUENCE OF CONSTRUCTION

1. A PRE-CONSTRUCTION CONFERENCE IS MANDATORY BEFORE ANY WORK IS DONE ON THE SITE. THE CONTRACTOR IS RESPONSIBLE FOR ARRANGING THE MEETING AMONG THE OWNER, COUNTY ENGINEER, VDOT, UTILITY DEPT. AND THE CONTRACTOR. FORTY-EIGHT (48) HOURS NOTICE IS REQUIRED.
2. INSTALL PERIMETER EROSION & SEDIMENT CONTROL MEASURES AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER. MAINTAIN EROSION AND SEDIMENT CONTROL ITEMS THROUGHOUT CONSTRUCTION.
3. INSTALL TRAFFIC CONTROL MEASURES (E.G. CONES, SIGNAGE, ETC) AS PER PLAN.
4. CLEAR, GRUB, STRIP TOPSOIL AND STOCKPILE, AND PERFORM GRADING OPERATIONS WHILE MAINTAINING TRAFFIC IN ACCORDANCE WITH WORK AREA PROTECTION MANUAL AND MAINTENANCE OF TRAFFIC NOTES (THIS SHEET). ANY STOCKPILE AREAS MUST BE PROTECTED BY MEANS OF A SILT FENCE OR APPROVED EROSION & SEDIMENT CONTROL MEASURES, AND SHOULD BE LOCATED IN AN AREA APPROVED BY THE ENGINEER OR HAULED OFF SITE.
5. PERFORM ROAD IMPROVEMENTS ACCORDING TO THE CONSTRUCTION NARRATIVE (THIS SHEET) AND THE PAVEMENT MARKING PLAN THIS SHEET.
6. SEED, FERTILIZE AND MULCH ALL DISTURBED AREAS THAT HAVE BEEN DENUDED AND ARE NOT TO BE PAVED.
7. AFTER GRASS AREAS HAVE BEEN ESTABLISHED AND ACCEPTED, CLEAN UP ALL EROSION AND SEDIMENT CONTROL MEASURES, REMOVE DEBRIS, AND DISPOSE OF OFF-SITE.

TRAFFIC CONTROL CHANNELING DEVICES:

[illegible]

NOTE:
THE CONTRACTOR'S RESPONSIBILITY FOR PROVIDING ALL TRAFFIC CONTROL DEVICES, SIGNAGE, EQUIPMENT, PERSONNEL, INCLUDING FLAGMEN, TRAFFIC CONTROL PERSONNEL, ETC. TO CONTROL TRAFFIC DURING CONSTRUCTION WITHIN VDOT MAINTAINED RIGHT OF WAY. ALL TRAFFIC CONTROL SHALL BE IN STRICT ACCORDANCE WITH THE STANDARDS, GUIDELINES, PROCESS, AND DIRECTIVES OF THE LATEST EDITION OF THE VIRGINIA WORK AREA PROTECTION MANUAL, MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND THE VDOT POLICIES.

TRAFFIC CONTROL GENERAL NOTES:

1. THIS PROJECT IS TO BE CONSTRUCTED IN ACCORDANCE WITH VDOT'S CURRENT EDITION OF THE WORK AREA PROTECTION MANUAL. THE CONTRACTOR SHALL CONTACT THE RESIDENCY OFFICE [illegible]
2. [illegible]
3. ALL AREAS EXCAVATED BELOW EXISTING PAVEMENT SURFACE AND WITHIN THE CLEAR ZONE, AT THE CONCLUSION OF EACH WORKDAY, SHALL BE BACK FILLED TO FORM AN APPROXIMATE 6:1 WEDGE, AGAINST THE PAVEMENT SURFACE FOR THE SAFETY AND PROTECTION OF VEHICULAR TRAFFIC. ALL COSTS FOR PLACING, MAINTAINING AND REMOVING THE 6:1 WEDGE SHALL BE INCLUDED IN THE PRICE BID FOR OTHER ITEMS IN THE CONTRACT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
4. ANY CONTRACT ITEM(S) NOT SPECIFICALLY NOTED IN THE SEQUENCE OF CONSTRUCTION MAY BE SCHEDULED FOR CONSTRUCTION AT THE CONTRACTOR'S OPTION, AS APPROVED BY THE RESIDENT ENGINEER. HOWEVER, UNDER NO CIRCUMSTANCES WILL CONCURRENT CONSTRUCTION LEFT AND RIGHT OF ANY LANE OF TRAFFIC BE ALLOWED.

VEHICULAR REQUIREMENTS FOR TRAFFIC CONTROL

[illegible]

TRAFFIC CONTROL SIGNAGE:

[illegible]

COMMONWEALTH OF VIRGINIA
KATHLEEN N. HALPAUS
Lic. No. 45244
8/21/13
PROFESSIONAL ENGINEER

THIS DRAWING PREPARED AT THE TIMMONS GROUP OFFICE
4701 Owens Way, Suite 300 | Prince George, VA 23875
TEL 804.458.8685 FAX 804.458.1511 www.timmons.com

YOUR VISION ACHIEVED THROUGH OURS.

DATE	REVISION DESCRIPTION
12-14-12	COUNTY COMMENTS
3-6-13	COUNTY COMMENTS
8-21-13	AMMENDMENT TO APPROVED PLAN

DATE	28 SEPT. 2012
DRAWN BY	K .HALPAUS
DESIGNED BY	K. HALPAUS
CHECKED BY	D. JOHNSON
SCALE	NONE

TIMMONS GROUP

PUDDLEDOCK PLACE APARTMENTS
BLAND DISTRICT - PRINCE GEORGE COUNTY - VIRGINIA
WORK AREA PROTECTION PLAN

JOB NO. 33180

SHEET NO. T1.0

These plans and associated documents are the exclusive property of TIMMONS GROUP and may not be reproduced in whole or in part and shall not be used for any purpose whatsoever, inclusive, but not limited to construction, bidding, and/or construction staking without the express written consent of TIMMONS GROUP.

R:\100\34494-Puddledock_Place_Apts_Phase_2\DWG\Sheet\CD\34494C-SITE.dwg | Plotted on 8/21/2013 5:07 PM | by Ben McMillan