

## INTRODUCTION

1. THE FOLLOWING TRAFFIC CONTROL PLAN IS INTENDED TO BE A GENERAL CONCEPT FOR STAGING THE WORK WHILE MAINTAINING TRAFFIC. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE SPECIFIC DETAILS TO ADDRESS SPECIFIC SITUATIONS. THE CONTRACTOR SHALL SUBMIT A SITE SPECIFIC TRAFFIC CONTROL TO THE RESIDENT ENGINEER. THE CONTRACTOR MUST ALLOW AT LEAST 4 WEEKS FOR REVIEW AND APPROVAL OF A COMPREHENSIVE PLAN AND 2 WEEKS FOR REVIEW AND APPROVAL OF MINOR CHANGES/DETAILS.
2. ALL TRAFFIC CONTROL DETAILS MUST BE DESIGNED AND IMPLEMENTED IN ACCORDANCE WITH THE 2009 FHWA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND VTRANS STANDARDS E-100, E-100A, E-101, E102, E102A, E-103, E-106, E-107, E-107A, AND E-110.

## GENERAL

3. THE BID PRICE FOR TRAFFIC CONTROL - ITEM 641.0 SHALL INCLUDE ALL CONSTRUCTION SIGNING, BARRELS, CONES, DELINEATORS, BARRICADES, AND TEMPORARY REGULATORY AND WARNING SIGNS AND POSTS. ADJUSTING, RELOCATING AND REMOVING OF THESE DEVICES SHALL ALSO BE INCLUDED. TEMPORARY SIGNAL WORK AND NECESSARY ADJUSTMENTS TO ACCOMMODATE EACH STAGE OF CONSTRUCTION SHALL BE INCLUDED. DEVELOPING DETAILED TRAFFIC CONTROL PLANS FOR LANE CLOSURES, DETOURS AND OTHER WORK REQUIRING TEMPORARY TRAFFIC CONTROL SHALL ALSO BE INCLUDED. THE FOLLOWING ITEMS WILL BE PAID UNDER THEIR SPECIFIC BID PRICES.  
621.90 - TEMP. TRAFFIC BARRIER  
630.10 - UNIFORMED TRAFFIC OFFICERS  
630.15 - FLAGGERS  
646.600, .610, .650, .680, .690, & .700 - TEMP. PAVEMENT MARKINGS (PM'S)  
900.645 - SPECIAL PROVISION (TEMPORARY ROADWAY WIDENING/STAGE 2)
4. MAINTENANCE AND PROTECTION OF TRAFFIC SHALL BE PROVIDED IN ACCORDANCE WITH SECTION 641 TRAFFIC CONTROL OF THE VTRANS STANDARD SPECIFICATIONS FOR CONSTRUCTION 2006, THE FHWA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (M.U.T.C.D.), AND ANY PROVISIONS IN THE PLANS AND/OR CONTRACT, OR AS DIRECTED BY THE ENGINEER.
5. THE TRAFFIC CONTROL PLANS SHOWN ARE CONSIDERED TO BE MINIMUM REQUIREMENTS. ADDITIONAL SIGNS AND/OR CONTROL DEVICES MAY BE REQUIRED BY THE M.U.T.C.D. OR AS DIRECTED BY THE ENGINEER. THESE WILL BE PAID INCIDENTAL TO ITEM 641.0 TRAFFIC CONTROL.
6. THE SIGN LOCATIONS ARE APPROXIMATE. THE EXACT LOCATIONS SHALL BE DETERMINED BY THE ENGINEER.
7. VEHICLES BELONGING TO THE CONTRACTOR OR WORKERS SHALL NOT BE PARKED ON THE PAVEMENT OR SHOULDERS ALONG A ROADWAY BEING USED BY THE GENERAL PUBLIC. VEHICLES SHALL NOT BE PARKED IN A MANNER WHICH OBSTRUCTS ANY SIGNS, BANNERS, BARRICADES, OR ANY OTHER TRAFFIC CONTROL DEVICES.
8. THE CONTRACTOR SHALL NOT PARK EQUIPMENT OR STORE MATERIAL WHERE IT IS DEEMED BY THE ENGINEER TO BE A SAFETY HAZARD.
9. ANY EXISTING PAVEMENT MARKINGS WHICH CONFLICT WITH THE TRAFFIC CONTROL PLAN SHALL BE REMOVED AS DIRECTED BY THE RESIDENT ENGINEER. THE WORK SHALL PAID UNDER ITEM 646.85, REMOVAL OF EXISTING PAVEMENT MARKINGS.
10. THE CONTRACTOR SHALL SCHEDULE CONSTRUCTION OPERATIONS IN A MANNER SO AS TO MINIMIZE THE LENGTH OF TIME THAT NORMAL TRAFFIC FLOWS ARE DISTURBED.
11. TEMPORARY PAVEMENT MARKINGS AND/OR DELINEATION DEVICES SHALL BE PROVIDED AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
12. THE CONTRACTOR SHALL SUBMIT A DETAILED CONSTRUCTION SCHEDULE FOR EACH CONSTRUCTION STAGE.
13. AT LEAST ONE WAY ALTERNATING TRAFFIC WILL BE MAINTAINED DURING WORKING HOURS. TWO-WAY TRAFFIC MUST BE MAINTAINED DURING PEAK TRAFFIC HOURS (7AM-9AM, 4PM-6PM), UNLESS OTHERWISE APPROVED BY RESIDENT ENGINEER.
14. DUST CONTROL IS TO BE PAID FOR UNDER ITEM 609.10 OR ITEM 609.15, AS DIRECTED BY THE ENGINEER.
15. WHEN TYPE III BARRICADES ARE USED NEAR DRIVEWAYS OR INTERSECTIONS, THEY SHALL BE PLACED IN SUCH A WAY AS TO NOT OBSCURE SIGHT DISTANCE.
16. THE CONTRACTOR SHALL NOT MIX DELINEATION DEVICES IN A LINEAR CLOSURE OR TAPER (I.E. CONES, VERTICAL PANELS, OR DRUMS SHALL NOT BE USED IN THE SAME TAPER OR CLOSURE). HOWEVER, DIFFERENT DELINEATION DEVICES MAY BE USED IN DIFFERENT AREAS OF THE PROJECT.

## GENERAL (CONT.)

18. THE MAXIMUM SPACING OF DELINEATORS, IN METERS, IS 1.0 TIMES THE CONSTRUCTION ZONE SPEED LIMIT FOR TAPERS AND 2.0 TIMES THE SPEED LIMIT FOR TANGENTS.
19. EXISTING OVERHEAD UTILITIES, WHICH INTERFERE WITH TEMPORARY PAVEMENT ON THE NORTH SIDE OF MAIN STREET, SHALL BE RELOCATED BY THE UTILITY COMPANY AS DIRECTED BY THE ENGINEER.
20. THE CONTRACTOR SHALL COORDINATE ANY UTILITY WORK, SUBCONTRACTOR WORK, PUBLIC MAINTENANCE, OR OTHER CONSTRUCTION OPERATIONS IN THE AREA AND IS RESPONSIBLE TO ENSURE THAT PROPER TRAFFIC CONTROL IS OBTAINED FOR ALL CONDITIONS.
21. THE CONTRACTOR SHALL RESTORE TWO-WAY TRAFFIC AT THE END OF EACH WORKDAY.
22. ALL ROADWAY AREAS TEMPORARILY CLOSED FOR TRENCH, CULVERT, OR CONDUIT EXCAVATION SHALL BE REOPENED AT THE END OF THE WORKDAY. AT ALL TIMES WHEN WORK IS NOT IN PROGRESS, ALL OPENINGS IN THE ROADWAY SHALL BE BACK-FILLED OR PROTECTED TO PROVIDE SAFE PASSAGE OF THE TRAVELING PUBLIC.
23. WHEN TWO OR MORE WORK AREAS ARE ADJACENT, OVERLAP, OR ARE IN CLOSE PROXIMITY AS DETERMINED BY THE ENGINEER, THE CONTRACTOR SHALL ENSURE THERE IS NO CONFLICTING SIGNAGE AND THAT LANE CONTINUITY IS MAINTAINED THROUGHOUT ALL WORK AREAS.
24. DROP OFF PROTECTION IN CONSTRUCTION AREAS SHALL CONFORM TO VTRANS STANDARD SHEET E-108.
25. IN ACCORDANCE WITH ITEM 641.0 TRAFFIC CONTROL, THE CONTRACTOR SHALL MAINTAIN DRAINAGE FACILITIES AND OTHER HIGHWAY ELEMENTS. THE CONTRACTOR SHALL DEVOTE PARTICULAR ATTENTION TO ALL DRAINAGE FACILITIES TO KEEP THEM FULLY OPERATIVE AT ALL TIMES (INCLUDING WORK AREAS). ALL COSTS ASSOCIATED WITH THIS WORK IS INCLUDED IN ITEM 641.0.

## SCHOOL ACCESS

26. SCHOOL ACCESS SHALL BE MAINTAINED AT ALL TIMES. THE CONTRACTOR IS REQUIRED TO COORDINATE WITH APPROPRIATE SCHOOL OFFICIALS TWO WEEKS IN ADVANCE OF ANY WORK SO THAT THERE WILL BE ADEQUATE TIME FOR THE CONTRACTOR TO ADJUST THE WORK SCHEDULE TO ACCOMMODATE THE NEEDS OF THE SCHOOL.

## EMERGENCY ACCESS

27. AT ALL TIMES DURING CONSTRUCTION, THE CONTRACTOR MUST PROVIDE SAFE AND CONVENIENT EMERGENCY ACCESS. LOCAL FIRE, POLICE, AND AMBULANCE AGENCIES SHALL BE NOTIFIED BY THE CONTRACTOR PRIOR TO THE START OF WORK IN ORDER TO COORDINATE AND MAINTAIN SUFFICIENT EMERGENCY ROUTES.
28. THE CONTRACTOR SHALL SUBMIT TO THE APPROPRIATE LAW ENFORCEMENT AND EMERGENCY AGENCIES IN WRITING THE NAME, ADDRESS, AND TELEPHONE NUMBER OF THE PERSON OR PERSONS AUTHORIZED TO SECURE LABOR, MATERIALS, AND EQUIPMENT FOR EMERGENCY REPAIRS OUTSIDE THE NORMAL WORKING HOURS. DUPLICATE COPIES OF THE ABOVE SHALL BE FILED WITH THE ENGINEER.

## PUBLIC INGRESS AND EGRESS

29. THE CONTRACTOR SHALL PROVIDE PROPERTY OWNERS WITH PROPER ACCESS TO THEIR DRIVEWAYS AND SHALL MAINTAIN THEM THROUGH ALL TEMPORARY TRAFFIC CONTROL ZONES AND SHALL DELINEATE THEM BY MEANS OF SIGNS, CONES AND/OR DRUMS AND POST FLAGGERS AS DIRECTED BY THE ENGINEER.
30. WHERE DIRECT ACCESS TO DRIVEWAYS IS NOT POSSIBLE DUE TO NECESSARY CONSTRUCTION OPERATIONS, THE CONTRACTOR SHALL PLAN ALTERNATE MEANS OF ACCESS AND SUBMIT SUCH PLANS FOR APPROVAL BEFORE OPERATIONS COMMENCE. THE COST OF THIS WORK SHALL BE INCLUDED IN THE THE PRICE BID FOR ITEM 641.0 TRAFFIC CONTROL.
31. LEFT TURNS IN AND OUT OF DRIVEWAYS DO NOT NEED TO BE MAINTAINED IN AREAS WHERE EXCAVATION OR PAVING OPERATIONS ARE ON-GOING. AT THE END OF THE CONSTRUCTION DAY, ACCESS ACROSS THE WORK ZONE WILL BE RESTORED.

## PUBLIC INGRESS AND EGRESS (CONT.)

32. THE CONTRACTOR SHALL NOTIFY THE OWNERS/USERS OF DRIVEWAYS AT LEAST 24 HOURS IN ADVANCE OF ANY WORK TO BE DONE AT THAT LOCATION. COMMERCIAL ESTABLISHMENTS SHALL HAVE A MINIMUM OF ONE DRIVEWAY OPEN AT ALL TIMES DURING NORMAL BUSINESS HOURS. THE CONTRACTOR HAS THE RESPONSIBILITY OF MAINTAINING SAFE AND PROPER ACCESS TO BUILDINGS IN THE VICINITY OF CONSTRUCTION.
33. WHERE EXISTING SIDEWALKS ARE CLOSED DURING CONSTRUCTION, PEDESTRIAN TRAFFIC SHALL BE MAINTAINED AT ALL TIMES ON AT LEAST ONE SIDE OF THE ROAD. UNDER SUCH CIRCUMSTANCES, THE CONTRACTOR, AT MINIMUM, SHALL PROVIDE DELINEATED CROSSWALKS AT INTERSECTIONS. TEMPORARY CROSSWALKS SHALL BE MAINTAINED AND MOVED AS NECESSARY TO ACCOMMODATE PEDESTRIAN SAFETY. PAYMENT SHALL BE MADE UNDER THE TEMPORARY PAVEMENT MARKING ITEMS. SHOULD THE ENGINEER DECIDE ADDITIONAL TEMPORARY SIDEWALK (BEYOND THAT CALLED ON THE PLANS) IS NECESSARY, A LIGHT DUTY PAVEMENT SECTION MADE UP OF SUBBASE AND BITUMINOUS CONCRETE SHALL BE USED AS SHOWN ON SHEET TCP-2. PAYMENT SHALL BE MADE UNDER THEIR RESPECTIVE ITEM NUMBERS. TEMPORARY PEDESTRIAN FACILITIES SHALL BE A MINIMUM 4' WIDTH. CHANNELING DEVICES SHALL CONFORM TO SECTION 6 OF THE MUTCD. THE CONTRACTOR SHALL NOT STORE OR PLACE CONSTRUCTION MATERIALS IN THE PEDESTRIAN PATH OF TRAVEL.

## SIGNALS

34. PRIOR TO AND DURING THE STAGED CONSTRUCTION OF MAIN STREET, IT MAY BE NECESSARY TO RELOCATE THE FLASHING SIGNAL AT HILL ST. ADJUSTMENT OF THE SIGNAL TO LANE CONFIGURATION AS DIRECTED BY THE ENGINEER IS TO BE PAID FOR UNDER ITEM 641.0. IN ADDITION, THE EXISTING SYSTEM IS TO BE MAINTAINED UNDER ITEM 641.0. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING OF THE BEGINNING AND ENDING DATES OF SIGNAL MAINTENANCE. INCLUDED WITH THIS NOTICE SHALL BE A LIST OF EMERGENCY CONTACT TELEPHONE NUMBERS IN THE EVENT SIGNAL MAINTENANCE IS REQUIRED.
35. THE PEACHAM ROAD/HILL STREET TRAFFIC SIGNALS SHALL BE ERECTED AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER. THE TRAFFIC SIGNAL INSTALLATION SHALL BE COMPLETE BY THE END OF STAGE 4.

## SIGNS

36. THE COVERING AND/OR REMOVING, RELOCATING, AND REPLACING OF EXISTING SIGN PANELS AND ASSEMBLIES SHALL BE AS DIRECTED BY THE ENGINEER. PAYMENT SHALL BE INCLUDED IN THE PRICE BID FOR TRAFFIC CONTROL - ITEM 641.0. SIGNS WHICH ARE NOT APPLICABLE DURING NON-WORKING HOURS SHALL BE COVERED OR REMOVED FROM VIEW AS DIRECTED BY THE ENGINEER.
37. CARE SHOULD BE TAKEN NOT TO DAMAGE THE PERMANENT SIGNS IF THEY ARE COVERED. ANY SIGN SO DAMAGED SHALL BE REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE STATE.
38. ADVANCE POSTING DISTANCE FOR SIGNS SHALL BE PER VTRANS STANDARD SHEETS E-100 AND E-100A.
39. ALL CONSTRUCTION SIGNS SHALL BE BLACK LETTERS ON REFLECTORIZED FLUORESCENT ORANGE BACKGROUND, AS IN SPECIFIED VTRANS STANDARDS.
40. SIGN MOUNTING HEIGHT SHALL BE 2.10m IN ALL AREAS WHERE PEDESTRIANS AND PARKED CARS ARE ENCOUNTERED, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
41. EXISTING SIGNING SHALL REMAIN, WITH RELOCATION AS NECESSARY, UNTIL IT IS NO LONGER NEEDED. TEMPORARY SIGNING SHALL BE ADDED, AS NEEDED AND AS REQUIRED BY THE M.U.T.C.D. NEW SIGNING SHALL BE INSTALLED AS IT BECOMES APPLICABLE AND AS CONSTRUCTION NEARS COMPLETION IN EACH STAGE.
42. THE CONTRACTOR SHALL PROVIDE TEMPORARY SIGNS FOR DIRECTING MOTORISTS TO THE ENTRANCES TO BUSINESSES ALONG THE CORRIDOR. SIGNS SHALL BE RECTANGULAR WITH WHITE TEXT ON BLUE BACKGROUND. SIGNS SHALL INCLUDE THE NAME OF THE BUSINESS WITH ARROW POINTING IN THE DIRECTION OF THE BUSINESS. LETTER HEIGHTS SHALL NOT EXCEED 4". SIGNS SHALL BE INSTALLED ON AN NCHRP 350 COMPLIANT SIGN STAND. THESE SIGNS SHALL BE MOVED AND/OR ALTERED AS APPROPRIATE FOR EACH STAGE OF CONSTRUCTION. ALL COSTS ASSOCIATED WITH THIS WORK SHALL BE INCLUDED IN ITEM 641.0.

## FLAGGING AND UNIFORMED TRAFFIC OFFICERS

43. THE CONTRACTOR SHALL PROVIDE FLAGGERS FOR ONE LANE TRAFFIC CONTROL ON MAIN STREET, ADJACENT TO WORK ZONES ON SIDE STREETS, AND AT LOCATIONS WHERE SIGHT DISTANCES ARE IMPAIRED BY CONSTRUCTION OPERATIONS OR OTHER SITUATIONS. THE CONTRACTOR SHALL PROVIDE UNIFORMED TRAFFIC OFFICERS AT SIGNALIZED INTERSECTIONS DURING MODIFICATION OF SIGNALS.
44. FLAGGING STATIONS SHALL BE ADJACENT TO THE TRAFFIC LANES BEING CONTROLLED AND SHALL BE POSITIONED SO THAT FLAGGER VISIBILITY TO APPROACHING TRAFFIC IS OPTIMIZED. THE FLAGGER SHALL BE READILY VISIBLE TO APPROACHING TRAFFIC BETWEEN 75 m AND 100 m IN ADVANCE OF THE FLAGGER LOCATION. ACCORDINGLY, THE TANGENT DIMENSIONS ON EACH END OF THE WORK AREA SHALL BE ESTABLISHED TO ACHIEVE THE APPROPRIATE FLAGGING STATION LOCATION, AS DIRECTED BY THE RESIDENT ENGINEER.
45. FLAGGERS SHALL BE REQUIRED TO USE TWO-WAY RADIOS, WALKIE-TALKIES OR OTHER FORMS OF ENHANCED COMMUNICATION WHEN ONE FLAGGER IS NOT VISIBLE TO THE OTHER, OR IF THE ENGINEER DEEMS IT NECESSARY. COST TO BE INCLUDED IN ITEM 641.0 TRAFFIC CONTROL.
46. STOP/SLOW PADDLES SHALL BE USED FOR ALL FLAGGING, AND SHALL CONFORM TO THE REQUIREMENTS SET FORTH IN THE M.U.T.C.D.

PROJECT NAME: DANVILLE  
PROJECT NUMBER: F EGC 028-3(32)

FILE NAME: ...\\highway\plotfiles\TCP-LPTF PLOT DATE: 1/18/2011  
DESIGN SUPERVISOR: GARY SANTY DRAWN BY: STANTEC  
DESIGNED BY: STANTEC CHECKED BY: STANTEC  
TRAFFIC CONTROL PLAN TC-1 SHEET 218 OF 306

