

PROJECT: U:\Project\6B-A-1-752P\Splred\6B-A-1-752P\Splred\6B-A-SOUTH SUMAS RD-D\066627-6B-A-SOUTH SUMAS RD-D\6B-A-SOUTH SUMAS RD-D\_020223.rvt  
 PLOT DATE: 2/27/2023 10:33 AM  
 PLOTTED BY: Parvaneh Hassani  
 These Design Documents are prepared solely for the use by the party with whom the Design Professional has entered into a contract, and there are no representations of any kind made by the Design Professional to any party with whom the Design Professional has not entered into contract.



SITE ID: AP-6B-A-SOUTH SUMAS RD-D			
CATEGORY 1 - FAIRWAY ST	POSTED SPEED, km/h	50	
ANTICIPATED AADT, VEH / DAY (2022)	<1000	ANTICIPATED SADT, VEH / DAY (2019)	NA
NOTE: TRAFFIC DATA ESTIMATED FROM TAC GEOMETRIC DESIGN GUIDE FOR CANADIAN ROADS			
TCP NUMBER	01-13283-S6-M002-HS-PLN-0441		
DURATION OF WORK	LONG		
RISK ASSESSMENT REVISION	SEE APPENDIX F		
OVERLAPPING STRATEGY DOCUMENT	OVERLAPPING WORK ZONE PROCEDURE DOCUMENT (01-13283-SG-M002-GN-PRO-0001 R0)		

DYNAMIC MESSAGE SIGN SEQUENCE*				
CYCLE 1			CYCLE 2	
PHASE 1 (3 SEC)	PHASE 2 (3 SEC)	>REPEAT>	PHASE 1 (3 SEC)	PHASE 2 (3 SEC)
CONSTRUCTION	PREPARE		CONSTRUCTION	PREPARE
ZONE AHEAD	TO STOP		ZONE AHEAD	TO STOP

\* PDMS MESSAGE MAY BE MODIFIED PER SITE CONDITIONS

- GENERAL NOTES:**
- PIPELINE AND ACCESS LOCATIONS TO BE CONFIRMED ON SITE BY THE CONTRACTOR. TRAFFIC CONTROL MEASURES SHALL BE LAID OUT FROM THE EDGE OF THE ACCESS.
  - ALL SIGNS SHALL MEET BC MINISTRY OF TRANSPORTATION AND INFRASTRUCTURE (BC MOTI) SPECIFICATIONS FOR STANDARD HIGHWAY SIGN MATERIALS. FABRICATION, SUPPLY, INSTALLATION AND MAINTENANCE. CONTRACTOR IS TO NOTIFY THE TRAFFIC ENGINEER IF TRAFFIC CONTROL MEASURES OVERLAP WITH ADJACENT ACCESS MANAGEMENT PLAN.
  - CONTRACTOR TO COVER ALL EXISTING CONFLICTING REGULATORY SIGNS WHEN THIS TRAFFIC CONTROL LAYOUT IS IMPLEMENTED AND ACTIVE.
  - CONTRACTOR TO PLACE SIGNS SUCH THAT DRIVEWAY ACCESSES AND ROAD CROSSINGS ARE NOT IMPACTED.
  - FOR CONSTRUCTION TIMING AND DURATION, REFER TO THE PERMIT OF THIS LOCATION. THE KEY WORK ACTIVITIES WILL INCLUDE, BUT NOT LIMITED TO, EQUIPMENT MOBILIZATION, MATERIAL STAGING, PIPELINE AND PUMP STATION CONSTRUCTION AND EQUIPMENT DEMOBILIZATION. REFER TO THE TRAFFIC AND ACCESS CONTROL MANAGEMENT PLAN (TACMP) FOR GENERAL RESTRICTIONS, SPECIAL EVENTS, AND OTHER CONDITIONS ASSOCIATED WITH EACH SITE.
  - THE CONSTRUCTION TRAFFIC WILL COMPOSE OF TRUCKS HAULING EQUIPMENT AND MATERIALS AS WELL AS CREW TRANSPORT TO ACCESS TO/FROM THE WORKS. THE ESTIMATED VOLUME (REFER TO PERMIT) MAY RESULT IN MINOR REDUCTION OF SPEED UP TO 30km/h, AND OR TEMPORARY STOPPING WITH AVERAGE DELAY LESS THAN 5 MINUTES, AND NO LONGER THAN 15 MINUTES.
  - THE SPEED USED FOR THE TRAFFIC CONTROL MEASURES IS AS PROVIDED BY THE CONTRACTOR. CONTRACTOR TO CONFIRM ON SITE.
  - IN TIMES OF MINIMAL ACTIVITY AT ANY PERMANENT ACCESS, ADVANCE WARNING TRUCK TURNING (W-317) SIGNS AND OTHER SUPPLEMENTAL SIGNS AS REQUIRED BY THE MINISTRY REPRESENTATIVE ARE TO BE ERRECTED ON EITHER SIDE OF THE ACCESS IN ACCORDANCE WITH THE LATEST VERSION OF THE MINISTRY OF TRANSPORTATION AND INFRASTRUCTURE MANUAL OF STANDARD TRAFFIC SIGNS AND PAVEMENT MARKINGS, AND IN COMPLIANCE WITH ACCESS MANAGEMENT PLANS SPECIFIC TO EACH LOCATION, AS ACCEPTED BY THE MINISTRY.
  - IN TIMES OF MINIMAL ACTIVITY AT ANY TEMPORARY ACCESS, ADVANCE CONSTRUCTION TRUCK TURNING (W-172) SIGNS AND OTHER SUPPLEMENTAL SIGNS AS REQUIRED BY THE DESIGNATED DISTRICT OFFICIAL ARE TO BE ERRECTED ON EITHER SIDE OF THE ACCESS IN ACCORDANCE WITH THE LATEST VERSION OF THE MINISTRY OF TRANSPORTATION AND INFRASTRUCTURE MANUAL OF STANDARD TRAFFIC SIGNS AND PAVEMENT MARKINGS, AND IN COMPLIANCE WITH ACCESS MANAGEMENT PLANS SPECIFIC TO EACH LOCATION, AS ACCEPTED BY THE MINISTRY.
  - CONTRACTOR IS RESPONSIBLE FOR PLACING CONSTRUCTION WARNING SIGNS (C-018-1A, C-029) ALONG ALL SIDE STREET APPROACHES WITHIN THE CONSTRUCTION SIGNAGE LIMITS OF THE ACCESS, AS NEEDED.
  - THIS TRAFFIC CONTROL SETUP IS TO BE USED DURING DAYLIGHT HOURS, FOR NIGHT OPERATIONS OR TRAFFIC CONTROL SETUP IN THE HOURS OF DARKNESS AS PER THE HOURS OF THE APPROVED PERMIT/H1080, THE FOLLOWING IS REQUIRED TO CONFORM WITH THE MINISTRY'S REQUIREMENTS PER THE BC MOTI TRAFFIC MANAGEMENT MANUAL FOR WORK ON ROADWAYS (TMM):
    - OVERHEAD LIGHTING SHALL BE USED TO ILLUMINATE THE WORK ACTIVITY AREA, EQUIPMENT CROSSINGS, AND OTHER POTENTIALLY HAZARDOUS AREAS.
    - TCP APPAREL AND EQUIPMENT SHALL COMPLY WITH THE TMM REQUIREMENTS (INCLUDING ILLUMINATED BATONS).
    - TMM RETROREFLECTIVE STANDARDS AND INSPECTION REQUIREMENTS FOR ALL TRAFFIC CONTROL DEVICES MUST BE MET.
    - ALL THE DETAILS AND PROCEDURES ASSOCIATED WITH AUTOMATED FLAGGER ASSISTED DEVICE (AFAD) SHALL BE COMPLIANT WITH SECTION 407 OF THE TMM 2020.
    - THE AFAD SHALL BE ILLUMINATED WITH OVERHEAD LIGHTING AS PER TMM SECTION 4.7.2 AND 7.9.
  - CONTRACTOR TO RESTORE THE ROAD TO ORIGINAL CONDITION AFTER PIPELINE CONSTRUCTION.
  - APPENDIX F OF TRAFFIC CONTROL PLAN DETAILS: A) RISK ASSESSMENT, B) AFAD (AUTOMATED FLAGGER ASSISTED DEVICE) AND TCP REQUIREMENTS AND OPERATIONS PER WORKSAFE BC PART 18 OHSR, C) THE ENVIRONMENTAL TRAFFIC RISKS SPECIFIC TO THIS SITE.
  - SIGHT DISTANCE SPECIFIC TO THE SITE IS DETAILED UNDER DRIVER SIGHT DISTANCES 2.1 SITE FACTORS (RISK ASSESSMENT) AND IN APPENDIX F.
  - THERE WILL NOT BE ANY STORAGE OF MATERIALS WITHIN THE ROADWAY IN THE CLEAR ZONE (UNLESS APPROVED BY EOR) THAT IMPEDE THE SIGHT LINES AT THE ACCESS POINT.
  - WHEN TWO OR MORE ACTIVE ACCESS POINTS ARE IN CLOSE PROXIMITY TO EACH OTHER, THE SIGN SET UP AND TRAFFIC CONTROL WILL COMPLY WITH OVERLAPPING TRAFFIC CONTROL STRATEGY AS PER SECTION 2.5 WORK ZONES IN CLOSE PROXIMITY IDENTIFIED.
  - THE CONTENT OF THIS DRAWING REPRESENTS INFORMATION GATHERED AT THE TIME OF ITS DEVELOPMENT. THE WORK ZONE WILL BE REVIEWED AT THE TIME OF IMPLEMENTATION AND, IF THERE ARE SIGNIFICANT CHANGES OR ITEMS NOT CONSIDERED PROPERLY, THE DRAWING AND THE HAZARD ASSESSMENT WILL BE UPDATED ACCORDINGLY.

LIST OF DRAWINGS	
NO.	TITLE
6B-A-SOUTH SUMAS-D_P1	TRAFFIC CONTROL LAYOUT PLAN COVER SHEET
6B-A-SOUTH SUMAS-D_P2	TRAFFIC CONTROL LAYOUT PLAN

**PERMIT TO PRACTICE**  
 WATT CONSULTING GROUP LTD  
 SIGNATURE \_\_\_\_\_  
 DATE \_\_\_\_\_  
 PERMIT NUMBER: 1001432  
 ENGINEERS & GEOSCIENTISTS  
 BRITISH COLUMBIA

SEAL:

REVISIONS	
0	ISSUED FOR IMPLEMENTATION MAR 22-23
1	ISSUED FOR IMPLEMENTATION MAR 27-23
2	
3	
4	
5	
6	
7	
8	

SCALE: NOT TO SCALE			
DESIGNED: PN	DRAWN: PN	CHECKED: KM	APRVD: KM
DESIGN VEHICLE:		DESIGN SPEED:	
		50 km/h	
PROJECT NO:		DRAWING NO:	
3431.B01		6B-A-SOUTH SUMAS-D_P1	
DATE:	REVISION:		
MAR 22, 2023	1		

TITLE: **TRAFFIC CONTROL LAYOUT AP 6B-A-SOUTH SUMAS RD-D BPLP TMPEP SPREAD 6B**

Calgary, Edmonton, Lloydminster,  
Okanagan, Vancouver, Victoria

**WATT**  
Consulting Group

WATTCONSULTINGGROUP.COM



PROJECT: U:\Project\6B-A-17252\SUMAS\6B-A-SOUTH SUMAS RD-D\_S11.PLT\_20240414.rvt  
 PLOT DATE: 2024/03/13 10:24 AM  
 PLOTTED BY: Alexei Vash

These Design Documents are prepared solely for the use by the party with whom the Design Professional has entered into a contract, and there are no representations of any kind made by the Design Professional to any party with whom the Design Professional has not entered into contract.



SITE ID: AP-6B-A-SOUTH SUMAS RD-D			
CATEGORY 1 - FAIRWAY ST		POSTED SPEED, km/h	50
ANTICIPATED AADT, VEH / DAY (2022)	<1000	ANTICIPATED SADT, VEH / DAY (2019)	NA
NOTE: TRAFFIC DATA ESTIMATED FROM TAC GEOMETRIC DESIGN GUIDE FOR CANADIAN ROADS			
TCP NUMBER	01-13283-S6-M002-HS-PLN-0441		
DURATION OF WORK	LONG		
RISK ASSESSMENT REVISION	SEE APPENDIX F		
OVERLAPPING STRATEGY DOCUMENT	OVERLAPPING WORK ZONE PROCEDURE DOCUMENT (01-13283-SG-M002-GN-PRO-0001 R0)		

DYNAMIC MESSAGE SIGN SEQUENCE*				
CYCLE 1		>REPEAT>	CYCLE 2	
PHASE 1 (3 SEC)	PHASE 2 (3 SEC)		PHASE 1 (3 SEC)	PHASE 2 (3 SEC)
CONSTRUCTION	PREPARE		CONSTRUCTION	PREPARE
ZONE AHEAD	TO STOP		ZONE AHEAD	TO STOP

\* PDMS MESSAGE MAY BE MODIFIED PER SITE CONDITIONS

**PERMIT TO PRACTICE**  
**WATT CONSULTING GROUP LTD**  
 SIGNATURE \_\_\_\_\_  
 DATE \_\_\_\_\_  
**PERMIT NUMBER: 1001432**  
**ENGINEERS & GEOSCIENTISTS**  
**BRITISH COLUMBIA**

SEAL: \_\_\_\_\_

REVISIONS	
0	ISSUED FOR IMPLEMENTATION MAR 23-23
1	ISSUED FOR IMPLEMENTATION MAR 24-23
2	ISSUED FOR IMPLEMENTATION MAR 31-23
3	
4	
5	
6	
7	
8	

SCALE: NOT TO SCALE	
DESIGNED: PN	DRAWN: PN
DESIGN VEHICLE: DESIGN SPEED: 50 km/h	
PROJECT NO: 3431.B01	DRAWING NO: 6B-A-SOUTH SUMAS-D-SLAT_P1
DATE: MAR 23, 2023	REVISION: 2

**TITLE: TRAFFIC CONTROL LAYOUT AP 6B-A-SOUTH SUMAS RD-D-SLAT BPLP TMPEP SPREAD 6B**

Calgary, Edmonton, Lloydminster, Okanagan, Vancouver, Victoria  
**WATT CONSULTING GROUP.COM**

- GENERAL NOTES:**
- PIPELINE AND ACCESS LOCATIONS TO BE CONFIRMED ON SITE BY THE CONTRACTOR. TRAFFIC CONTROL MEASURES SHALL BE LAID OUT FROM THE EDGE OF THE ACCESS.
  - ALL SIGNS SHALL MEET BC MINISTRY OF TRANSPORTATION AND INFRASTRUCTURE (BC MOTI) SPECIFICATIONS FOR STANDARD HIGHWAY SIGN MATERIALS, FABRICATION, SUPPLY, INSTALLATION AND MAINTENANCE. CONTRACTOR IS TO NOTIFY THE TRAFFIC ENGINEER IF TRAFFIC CONTROL MEASURES OVERLAP WITH ADJACENT ACCESS MANAGEMENT PLAN.
  - CONTRACTOR TO COVER ALL EXISTING CONFLICTING REGULATORY SIGNS WHEN THIS TRAFFIC CONTROL LAYOUT IS IMPLEMENTED AND ACTIVE.
  - CONTRACTOR TO PLACE SIGNS SUCH THAT DRIVEWAY ACCESSES AND ROAD CROSSINGS ARE NOT IMPACTED.
  - FOR CONSTRUCTION TIMING AND DURATION, REFER TO THE PERMIT OF THIS LOCATION. THE KEY WORK ACTIVITIES WILL INCLUDE, BUT NOT LIMITED TO, EQUIPMENT MOBILIZATION, MATERIAL STAGING, PIPELINE AND PUMP STATION CONSTRUCTION AND EQUIPMENT DEMOBILIZATION. REFER TO THE TRAFFIC AND ACCESS CONTROL MANAGEMENT PLAN (TACMP) FOR GENERAL RESTRICTIONS, SPECIAL EVENTS, AND OTHER CONDITIONS ASSOCIATED WITH EACH SITE.
  - THE CONSTRUCTION TRAFFIC WILL COMPOSE OF TRUCKS HAULING EQUIPMENT AND MATERIALS AS WELL AS CREW TRANSPORT TO ACCESS TO/FROM THE WORKS. THE ESTIMATED VOLUME (REFER TO PERMIT) MAY RESULT IN MINOR REDUCTION OF SPEED UP TO 30km/h, AND OR TEMPORARY STOPPING WITH AVERAGE DELAY LESS THAN 5 MINUTES, AND NO LONGER THAN 15 MINUTES.
  - THE SPEED USED FOR THE TRAFFIC CONTROL MEASURES IS AS PROVIDED BY THE CONTRACTOR. CONTRACTOR TO CONFIRM ON SITE.
  - IN TIMES OF MINIMAL ACTIVITY AT ANY PERMANENT ACCESS, ADVANCE WARNING TRUCK TURNING (W-317) SIGNS AND OTHER SUPPLEMENTAL SIGNS AS REQUIRED BY THE MINISTRY REPRESENTATIVE ARE TO BE ERRECTED ON EITHER SIDE OF THE ACCESS IN ACCORDANCE WITH THE LATEST VERSION OF THE MINISTRY OF TRANSPORTATION AND INFRASTRUCTURE MANUAL OF STANDARD TRAFFIC SIGNS AND PAVEMENT MARKINGS, AND IN COMPLIANCE WITH ACCESS MANAGEMENT PLANS SPECIFIC TO EACH LOCATION, AS ACCEPTED BY THE MINISTRY.
  - IN TIMES OF MINIMAL ACTIVITY AT ANY TEMPORARY ACCESS, ADVANCE CONSTRUCTION TRUCK TURNING (W-172) SIGNS AND OTHER SUPPLEMENTAL SIGNS AS REQUIRED BY THE DESIGNATED DISTRICT OFFICIAL ARE TO BE ERRECTED ON EITHER SIDE OF THE ACCESS IN ACCORDANCE WITH THE LATEST VERSION OF THE MINISTRY OF TRANSPORTATION AND INFRASTRUCTURE MANUAL OF STANDARD TRAFFIC SIGNS AND PAVEMENT MARKINGS, AND IN COMPLIANCE WITH ACCESS MANAGEMENT PLANS SPECIFIC TO EACH LOCATION, AS ACCEPTED BY THE MINISTRY.
  - CONTRACTOR IS RESPONSIBLE FOR PLACING CONSTRUCTION WARNING SIGNS (C-018-1A, C-029) ALONG ALL SIDE STREET APPROACHES WITHIN THE CONSTRUCTION SIGNAGE LIMITS OF THE ACCESS, AS NEEDED.
  - THIS TRAFFIC CONTROL SETUP IS TO BE USED DURING DAYLIGHT HOURS, FOR NIGHT OPERATIONS OR TRAFFIC CONTROL SETUP IN THE HOURS OF DARKNESS AS PER THE HOURS OF THE APPROVED PERMIT/H1080, THE FOLLOWING IS REQUIRED TO CONFORM WITH THE MINISTRY'S REQUIREMENTS PER THE BC MOTI TRAFFIC MANAGEMENT MANUAL FOR WORK ON ROADWAYS (TMM):
    - OVERHEAD LIGHTING SHALL BE USED TO ILLUMINATE THE WORK ACTIVITY AREA, EQUIPMENT CROSSINGS, AND OTHER POTENTIALLY HAZARDOUS AREAS.
    - TCP APPAREL AND EQUIPMENT SHALL COMPLY WITH THE TMM REQUIREMENTS (INCLUDING ILLUMINATED BATONS).
    - TMM RETROREFLECTIVE STANDARDS AND INSPECTION REQUIREMENTS FOR ALL TRAFFIC CONTROL DEVICES MUST BE MET.
    - ALL THE DETAILS AND PROCEDURES ASSOCIATED WITH AUTOMATED FLAGGER ASSISTED DEVICE (AFAD) SHALL BE COMPLIANT WITH SECTION 407 OF THE TMM 2020.
    - THE AFAD SHALL BE ILLUMINATED WITH OVERHEAD LIGHTING AS PER TMM SECTION 4.7.2 AND 7.9.
  - CONTRACTOR TO RESTORE THE ROAD TO ORIGINAL CONDITION AFTER PIPELINE CONSTRUCTION.
  - APPENDIX F OF TRAFFIC CONTROL PLAN DETAILS: A) RISK ASSESSMENT, B) AFAD (AUTOMATED FLAGGER ASSISTED DEVICE) AND TCP REQUIREMENTS AND OPERATIONS PER WORKSAFE BC PART 18 OHSR, C) THE ENVIRONMENTAL TRAFFIC RISKS SPECIFIC TO THIS SITE.
  - SIGHT DISTANCE SPECIFIC TO THE SITE IS DETAILED UNDER DRIVER SIGHT DISTANCES 2.1 SITE FACTORS (RISK ASSESSMENT) AND IN APPENDIX F.
  - THERE WILL NOT BE ANY STORAGE OF MATERIALS WITHIN THE ROADWAY IN THE CLEAR ZONE (UNLESS APPROVED BY EOR) THAT IMPEDE THE SIGHT LINES AT THE ACCESS POINT.
  - WHEN TWO OR MORE ACTIVE ACCESS POINTS ARE IN CLOSE PROXIMITY TO EACH OTHER, THE SIGN SET UP AND TRAFFIC CONTROL WILL COMPLY WITH OVERLAPPING TRAFFIC CONTROL STRATEGY AS PER SECTION 2.5 WORK ZONES IN CLOSE PROXIMITY IDENTIFIED.
  - THE CONTENT OF THIS DRAWING REPRESENTS INFORMATION GATHERED AT THE TIME OF ITS DEVELOPMENT. THE WORK ZONE WILL BE REVIEWED AT THE TIME OF IMPLEMENTATION AND, IF THERE ARE SIGNIFICANT CHANGES OR ITEMS NOT CONSIDERED PROPERLY, THE DRAWING AND THE HAZARD ASSESSMENT WILL BE UPDATED ACCORDINGLY.

PROJECT: W:\Project\BPLP01 - TMEP Spread 6B - Design\SLAT\Traffic\Access\TCP\6B-A-SOUTH SUMAS RD-D\_SLAT\_P2\_20230313.dwg  
 PLOT DATE: 2023/03/13 10:01 AM  
 PLOTTED BY: Jerry Yuen



**Expected hours of work**

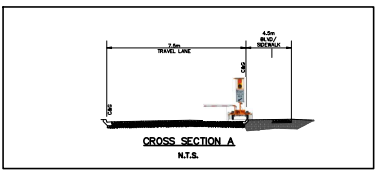
- Onsite: 7AM - 9PM, Monday - Saturday, with the following exceptions:
  - Oversize deliveries that must take place at night
  - Narrow environmental / regulatory windows. A noise exemption permit will be required.

**Driveways within work zone**

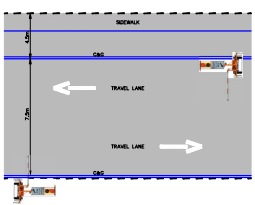
- Driveways within the active work area (i.e. between AFADs) will have Type 1 barricades. These barricades will be controlled and maintained by a spotter situated in the work zone with radio communication to the AFAD operators. Vehicles exiting driveways will do so with the assistance of the spotter in a safe and controlled manner.

**Night work traffic control provisions**

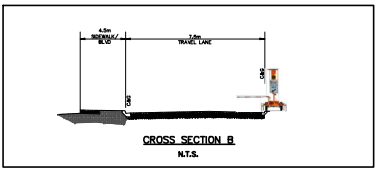
- A portable dynamic message sign (PDMS) is required for night work operations on paved roads. The message displayed on the PDMS will alert motorists to the work activities occurring ahead e.g., flagger operation.



NOTE: DIMENSIONS SHOWN ARE SITE SPECIFIC



NOTE: DIMENSIONS SHOWN ON PLAN VIEWS ARE SITE SPECIFIC



NOTE: DIMENSIONS SHOWN ARE SITE SPECIFIC

**LEGEND:**

- SIGN MARKER
- AUTOMATED FLAGGER ASSISTANCE DEVICE (AFAD)
- TCP CONTROL LOCATION
- ACCESS (6B-A-SOUTH SUMAS RD-D)
- TYPE 1 BARRICADE

**PERMIT TO PRACTICE**  
**WATT CONSULTING GROUP LTD**  
 SIGNATURE \_\_\_\_\_  
 DATE \_\_\_\_\_  
**PERMIT NUMBER: 1001432**  
**ENGINEERS & GEOSCIENTISTS**  
**BRITISH COLUMBIA**

SEAL:

REVISIONS		0 31.25m 62.5m 125m	
0	ISSUED FOR IMPLEMENTATION	MAR 23-23	1:2,500
1	ISSUED FOR IMPLEMENTATION	MAR 24-23	
2	ISSUED FOR IMPLEMENTATION	MAR 31-23	
3			
4			
5			
6			
7			
8			

DESIGNED: PN	DRAWN: PN	CHECKED: KM	APRVD: KM
DESIGN VEHICLE:		DESIGN SPEED:	
		50 km/h	
PROJECT NO:	DRAWING NO:		
3431.B01	6B-A-SOUTH SUMAS-D-SLAT_P2		
DATE:	REVISION:		
MAR 23, 2023	2		

**TITLE:** TRAFFIC CONTROL LAYOUT  
**AP 6B-A-SOUTH SUMAS RD-D-SLAT**  
**BPLP TMEP SPREAD 6B**

**WATT** Consulting Group  
 Calgary, Edmonton, Lloydminster, Okanagan, Vancouver, Victoria  
[WATTCONSULTINGGROUP.COM](http://WATTCONSULTINGGROUP.COM)

PROJECT: W:\Project Files\1001432 - TMEP Spread 6B - Design\11\Traffic\ACCT\T1\SUB\6B\2023\03\19\AP 6B-A-SOUTH SUMAS RD-D-SLAT.PDF  
 PLOT DATE: 3/17/2023 11:30 AM  
 PLOTTED BY: Jerry Yuen



**STORAGE NOT REQUIRED**

**Expected hours of work**

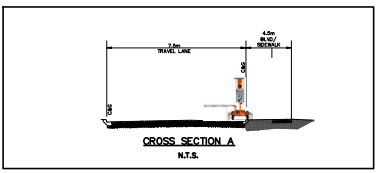
- Onsite: 7AM - 5PM, Monday - Saturday, with the following exceptions:
  - Oversize deliveries that must take place at night
  - Narrow environmental / regulatory windows. A noise exemption permit will be required.

**Driveways within work zone**

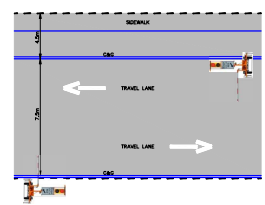
- Driveways within the active work area (i.e. between AFADs) will have Type 1 barricades. These barricades will be controlled and maintained by a spotter situated in the work zone with radio communication to the AFAD operators. Vehicles exiting driveways will do so with the assistance of the spotter in a safe and controlled manner.

**Night work traffic control provisions**

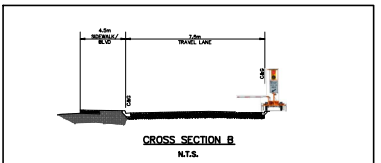
- A portable dynamic message sign (PDMS) is required for night work operations on paved roads. The message displayed on the PDMS will alert motorists to the work activities occurring ahead e.g., flagger operation.



NOTE: DIMENSIONS SHOWN ARE SITE SPECIFIC



NOTE: DIMENSIONS SHOWN ON PLAN VIEWS ARE SITE SPECIFIC



NOTE: DIMENSIONS SHOWN ARE SITE SPECIFIC

- LEGEND:**
- SIGN MARKER
  - AUTOMATED FLAGGER ASSISTANCE DEVICE (AFAD)
  - TCP CONTROL LOCATION
  - ACCESS (6B-A-SOUTH SUMAS RD-D)
  - TYPE 1 BARRICADE

PERMIT TO PRACTICE  
 WATT CONSULTING GROUP LTD  
 SIGNATURE \_\_\_\_\_  
 DATE \_\_\_\_\_  
 PERMIT NUMBER: 1001432  
 ENGINEERS & GEOSCIENTISTS  
 BRITISH COLUMBIA

SEAL:

REVISIONS	
0	ISSUED FOR IMPLEMENTATION MAR 23-23
1	ISSUED FOR IMPLEMENTATION MAR 24-23
2	ISSUED FOR IMPLEMENTATION MAR 31-23
3	
4	
5	
6	
7	
8	

DESIGNED: PN	DRAWN: PN	CHECKED: KM	APRVD: KM
DESIGN VEHICLE:		DESIGN SPEED: 50 km/h	
PROJECT NO: 3431.B01		DRAWING NO: 6B-A-SOUTH SUMAS-D-SLAT_P3	
DATE: MAR 23, 2023		REVISION: 2	

TITLE: **TRAFFIC CONTROL LAYOUT AP 6B-A-SOUTH SUMAS RD-D-SLAT BPLP TMEP SPREAD 6B**

**WATT Consulting Group** Calgary, Edmonton, Lloydminster, Okanagan, Vancouver, Victoria  
 WATTCONSULTINGGROUP.COM

PROJECT: U:\Project Files\100 - 7829 - Signal - Design\TSP\6B-A-SOUTH SUMAS RD-D\_1711\_181617\_001\02-2023\02-2023.dwg  
 PLOT DATE: 2023/03/14 14:59:00  
 PLOTTED BY: Pawan Hasegawa



SITE ID: AP-6B-A-SOUTH SUMAS RD-D			
CATEGORY 1 - FAIRWAY ST		POSTED SPEED, km/h	50
ANTICIPATED AADT, VEH / DAY (2022)	<1000	ANTICIPATED SADT, VEH / DAY (2019)	NA
NOTE: TRAFFIC DATA ESTIMATED FROM TAC GEOMETRIC DESIGN GUIDE FOR CANADIAN ROADS			
TCP NUMBER	01-13283-S6-M002-HS-PLN-0441		
DURATION OF WORK	LONG		
RISK ASSESSMENT REVISION	SEE APPENDIX F		
OVERLAPPING STRATEGY DOCUMENT	OVERLAPPING WORK ZONE PROCEDURE DOCUMENT (01-13283-SG-M002-GN-PRO-0001 R0)		

DYNAMIC MESSAGE SIGN SEQUENCE*				
CYCLE 1		>REPEAT>	CYCLE 2	
PHASE 1 (3 SEC)	PHASE 2 (3 SEC)		PHASE 1 (3 SEC)	PHASE 2 (3 SEC)
CONSTRUCTION	PREPARE		CONSTRUCTION	PREPARE
ZONE AHEAD	TO STOP		ZONE AHEAD	TO STOP

\* PDMS MESSAGE MAY BE MODIFIED PER SITE CONDITIONS

**PERMIT TO PRACTICE**  
**WATT CONSULTING GROUP LTD**  
 SIGNATURE \_\_\_\_\_  
 DATE \_\_\_\_\_  
**PERMIT NUMBER: 1001432**  
**ENGINEERS & GEOSCIENTISTS**  
**BRITISH COLUMBIA**

SEAL:

REVISIONS	
0	ISSUED FOR IMPLEMENTATION MAR 22-23
1	
2	
3	
4	
5	
6	
7	
8	

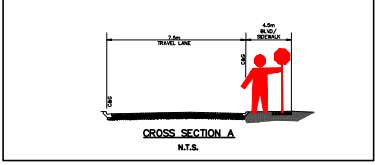
SCALE: NOT TO SCALE			
DESIGNED: PN	DRAWN: PN	CHECKED: KM	APRVD: KM
DESIGN VEHICLE:		DESIGN SPEED:	
		50 km/h	
PROJECT NO:	DRAWING NO:		
3431.B01	6B-A-SOUTH SUMAS-D-TCP_P1		
DATE:	REVISION:		
MAR 22, 2023	0		

TITLE: **TRAFFIC CONTROL LAYOUT**  
**AP 6B-A-SOUTH SUMAS RD-D-TCPr**  
**BPLP TMEP SPREAD 6B**

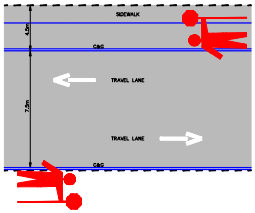


- GENERAL NOTES:**
- PIPELINE AND ACCESS LOCATIONS TO BE CONFIRMED ON SITE BY THE CONTRACTOR. TRAFFIC CONTROL MEASURES SHALL BE LAID OUT FROM THE EDGE OF THE ACCESS.
  - ALL SIGNS SHALL MEET BC MINISTRY OF TRANSPORTATION AND INFRASTRUCTURE (BC MOTI) SPECIFICATIONS FOR STANDARD HIGHWAY SIGN MATERIALS, FABRICATION, SUPPLY, INSTALLATION AND MAINTENANCE. CONTRACTOR IS TO NOTIFY THE TRAFFIC ENGINEER IF TRAFFIC CONTROL MEASURES OVERLAP WITH ADJACENT ACCESS MANAGEMENT PLAN.
  - CONTRACTOR TO COVER ALL EXISTING CONFLICTING REGULATORY SIGNS WHEN THIS TRAFFIC CONTROL LAYOUT IS IMPLEMENTED AND ACTIVE.
  - CONTRACTOR TO PLACE SIGNS SUCH THAT DRIVEWAY ACCESSES AND ROAD CROSSINGS ARE NOT IMPACTED.
  - FOR CONSTRUCTION TIMING AND DURATION, REFER TO THE PERMIT OF THIS LOCATION. THE KEY WORK ACTIVITIES WILL INCLUDE, BUT NOT LIMITED TO, EQUIPMENT MOBILIZATION, MATERIAL STAGING, PIPELINE AND PUMP STATION CONSTRUCTION AND EQUIPMENT DEMOBILIZATION. REFER TO THE TRAFFIC AND ACCESS CONTROL MANAGEMENT PLAN (TACMP) FOR GENERAL RESTRICTIONS, SPECIAL EVENTS, AND OTHER CONDITIONS ASSOCIATED WITH EACH SITE.
  - THE CONSTRUCTION TRAFFIC WILL COMPOSE OF TRUCKS HAULING EQUIPMENT AND MATERIALS AS WELL AS CREW TRANSPORT TO ACCESS TO/FROM THE WORKS. THE ESTIMATED VOLUME (REFER TO PERMIT) MAY RESULT IN MINOR REDUCTION OF SPEED UP TO 30km/h, AND OR TEMPORARY STOPPING WITH AVERAGE DELAY LESS THAN 5 MINUTES, AND NO LONGER THAN 15 MINUTES.
  - THE SPEED USED FOR THE TRAFFIC CONTROL MEASURES IS AS PROVIDED BY THE CONTRACTOR. CONTRACTOR TO CONFIRM ON SITE.
  - IN TIMES OF MINIMAL ACTIVITY AT ANY PERMANENT ACCESS, ADVANCE WARNING TRUCK TURNING (W-317) SIGNS AND OTHER SUPPLEMENTAL SIGNS AS REQUIRED BY THE MINISTRY REPRESENTATIVE ARE TO BE ERRECTED ON EITHER SIDE OF THE ACCESS IN ACCORDANCE WITH THE LATEST VERSION OF THE MINISTRY OF TRANSPORTATION AND INFRASTRUCTURE MANUAL OF STANDARD TRAFFIC SIGNS AND PAVEMENT MARKINGS, AND IN COMPLIANCE WITH ACCESS MANAGEMENT PLANS SPECIFIC TO EACH LOCATION, AS ACCEPTED BY THE MINISTRY.
  - IN TIMES OF MINIMAL ACTIVITY AT ANY TEMPORARY ACCESS, ADVANCE CONSTRUCTION TRUCK TURNING (W-172) SIGNS AND OTHER SUPPLEMENTAL SIGNS AS REQUIRED BY THE DESIGNATED DISTRICT OFFICIAL ARE TO BE ERRECTED ON EITHER SIDE OF THE ACCESS IN ACCORDANCE WITH THE LATEST VERSION OF THE MINISTRY OF TRANSPORTATION AND INFRASTRUCTURE MANUAL OF STANDARD TRAFFIC SIGNS AND PAVEMENT MARKINGS, AND IN COMPLIANCE WITH ACCESS MANAGEMENT PLANS SPECIFIC TO EACH LOCATION, AS ACCEPTED BY THE MINISTRY.
  - CONTRACTOR IS RESPONSIBLE FOR PLACING CONSTRUCTION WARNING SIGNS (C-018-1A, C-029) ALONG ALL SIDE STREET APPROACHES WITHIN THE CONSTRUCTION SIGNAGE LIMITS OF THE ACCESS, AS NEEDED.
  - THIS TRAFFIC CONTROL SETUP IS TO BE USED DURING DAYLIGHT HOURS, FOR NIGHT OPERATIONS OR TRAFFIC CONTROL SETUP IN THE HOURS OF DARKNESS AS PER THE HOURS OF THE APPROVED PERMIT/H1080, THE FOLLOWING IS REQUIRED TO CONFORM WITH THE MINISTRY'S REQUIREMENTS PER THE BC MOTI TRAFFIC MANAGEMENT MANUAL FOR WORK ON ROADWAYS (TMM):
    - OVERHEAD LIGHTING SHALL BE USED TO ILLUMINATE THE WORK ACTIVITY AREA, EQUIPMENT CROSSINGS, AND OTHER POTENTIALLY HAZARDOUS AREAS.
    - TCP APPAREL AND EQUIPMENT SHALL COMPLY WITH THE TMM REQUIREMENTS (INCLUDING ILLUMINATED BATONS).
    - TMM RETROREFLECTIVE STANDARDS AND INSPECTION REQUIREMENTS FOR ALL TRAFFIC CONTROL DEVICES MUST BE MET.
  - CONTRACTOR TO RESTORE THE ROAD TO ORIGINAL CONDITION AFTER PIPELINE CONSTRUCTION.
  - APPENDIX F OF TRAFFIC CONTROL PLAN DETAILS: A) RISK ASSESSMENT, B) AFAD (AUTOMATED FLAGGER ASSISTED DEVICE) AND TCP REQUIREMENTS AND OPERATIONS PER WORKSAFE BC PART 18 OHSR, C) THE ENVIRONMENTAL TRAFFIC RISKS SPECIFIC TO THIS SITE.
  - SIGHT DISTANCE SPECIFIC TO THE SITE IS DETAILED UNDER DRIVER SIGHT DISTANCES 2.1 SITE FACTORS (RISK ASSESSMENT) AND IN APPENDIX F.
  - THERE WILL NOT BE ANY STORAGE OF MATERIALS WITHIN THE ROADWAY IN THE CLEAR ZONE (UNLESS APPROVED BY EOR) THAT IMPEDE THE SIGHT LINES AT THE ACCESS POINT.
  - WHEN TWO OR MORE ACTIVE ACCESS POINTS ARE IN CLOSE PROXIMITY TO EACH OTHER, THE SIGN SET UP AND TRAFFIC CONTROL WILL COMPLY WITH OVERLAPPING TRAFFIC CONTROL STRATEGY AS PER SECTION 2.5 WORK ZONES IN CLOSE PROXIMITY IDENTIFIED.
  - THE CONTENT OF THIS DRAWING REPRESENTS INFORMATION GATHERED AT THE TIME OF ITS DEVELOPMENT. THE WORK ZONE WILL BE REVIEWED AT THE TIME OF IMPLEMENTATION AND, IF THERE ARE SIGNIFICANT CHANGES OR ITEMS NOT CONSIDERED PROPERLY, THE DRAWING AND THE HAZARD ASSESSMENT WILL BE UPDATED ACCORDINGLY.

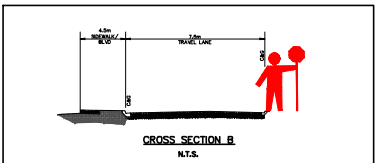
PROJECT: V:\P\2023\1001432 - Design\TFCP\6B-A-SOUTH SUMAS RD-D\TFCP\_6B-A-SOUTH SUMAS RD-D-TCP\_P2.dwg  
 PLOT DATE: 2023/03/14 2:28 PM  
 PLOTTED BY: P:\shared\harrisa



NOTE: DIMENSIONS SHOWN ARE SITE SPECIFIC



NOTE: DIMENSIONS SHOWN ON PLAN VIEWS ARE SITE SPECIFIC



NOTE: DIMENSIONS SHOWN ARE SITE SPECIFIC

**LEGEND:**

- 4 SIGN MARKER
- TCP CONTROL LOCATION
- ACCESS (6B-A-SOUTH SUMAS RD-D)

**PERMIT TO PRACTICE**  
**WATT CONSULTING GROUP LTD**  
 SIGNATURE \_\_\_\_\_  
 DATE \_\_\_\_\_  
**PERMIT NUMBER: 1001432**  
**ENGINEERS & GEOSCIENTISTS**  
**BRITISH COLUMBIA**

SEAL:

REVISIONS		0 31.25m 62.5m 125m	
0	ISSUED FOR IMPLEMENTATION	MAR 22-23	1:2,500
1		DESIGNED: PN	DRAWN: PN
2		CHECKED: KM	APRVD: KM
3		DESIGN VEHICLE:	DESIGN SPEED:
4			50 km/h
5		PROJECT NO:	DRAWING NO:
6		3431.B01	6B-A-SOUTH SUMAS-D-TCP_P2
7		DATE:	REVISION:
8		MAR 22, 2023	0

**TITLE:** TRAFFIC CONTROL LAYOUT  
**AP 6B-A-SOUTH SUMAS RD-D-TCPr**  
**BPLP TMEP SPREAD 6B**

Calgary, Edmonton, Lloydminster,  
 Okanagan, Vancouver, Victoria  
**WATT CONSULTING GROUP.COM**