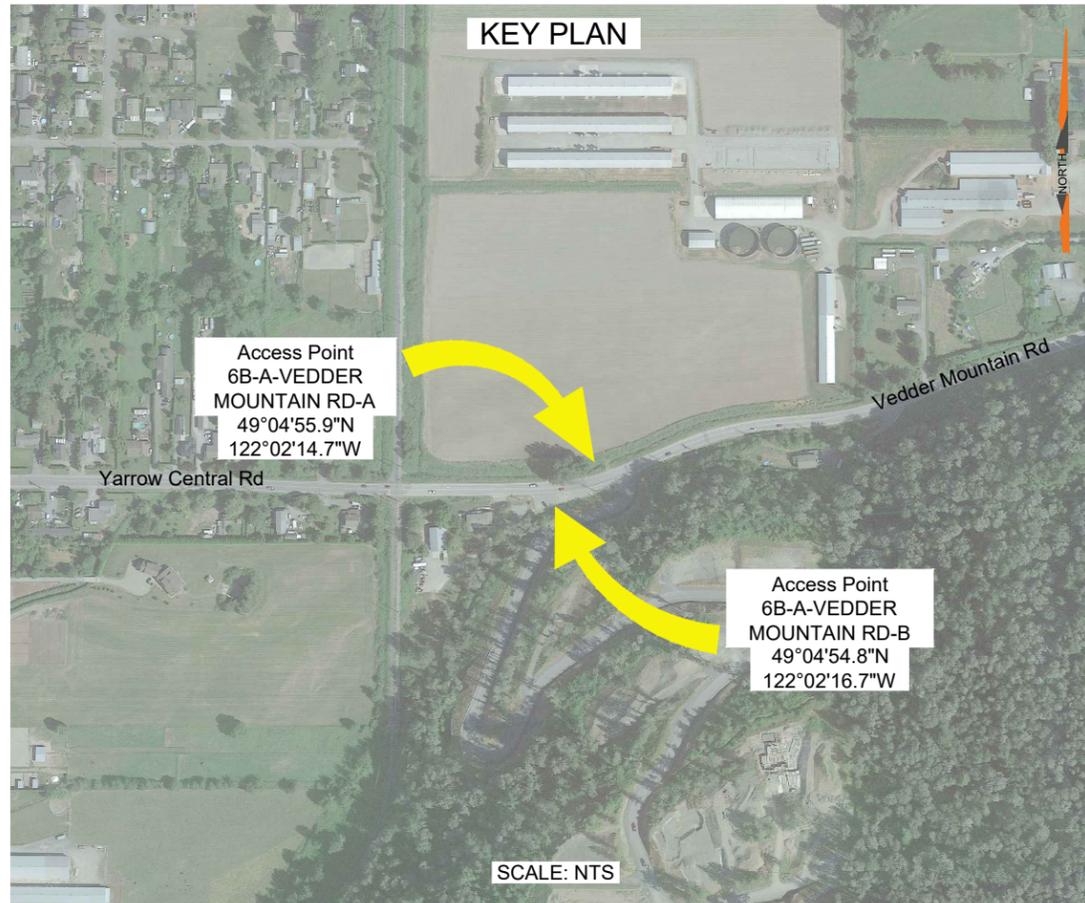


PROJECT: V:\Project Files\3431 - TMEP Spread 615 - Design\SLATAP-6B-A-VEDDER MOUNTAIN RD-A & B\_SLAT\_R0\_2023-01-12.dwg  
 PLOT DATE: 1/12/2023 2:17 PM  
 PLOTTED BY: Kathleen Blaker  
 These Design Documents are prepared solely for the use by the party with whom the Design Professional has entered 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-VEDDER MOUNTAIN RD-A&B			
CATEGORY 1 - YARROW CENTRAL RD		POSTED SPEED, km/h	50/60
ANTICIPATED AADT, VEH / DAY (2022)	7033	ANTICIPATED SADT, VEH / DAY (2019)	NA
NOTE: TRAFFIC DATA IS SOURCED FROM CITY OF CHILLIWACK			
TCP NUMBER	01-13283-S6-M002-HS-PLN-0367		
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	TO		ZONE	TO
AHEAD	STOP		AHEAD	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 ERECTED 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 ERECTED 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-VEDDER-A&B-SLAT_P1	TRAFFIC CONTROL LAYOUT PLAN COVER SHEET
6B-A-VEDDER-A&B-SLAT_P2	TRAFFIC CONTROL LAYOUT PLAN
6B-A-VEDDER-A&B-SLAT_P3	TRAFFIC CONTROL LAYOUT PLAN

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

SEAL:

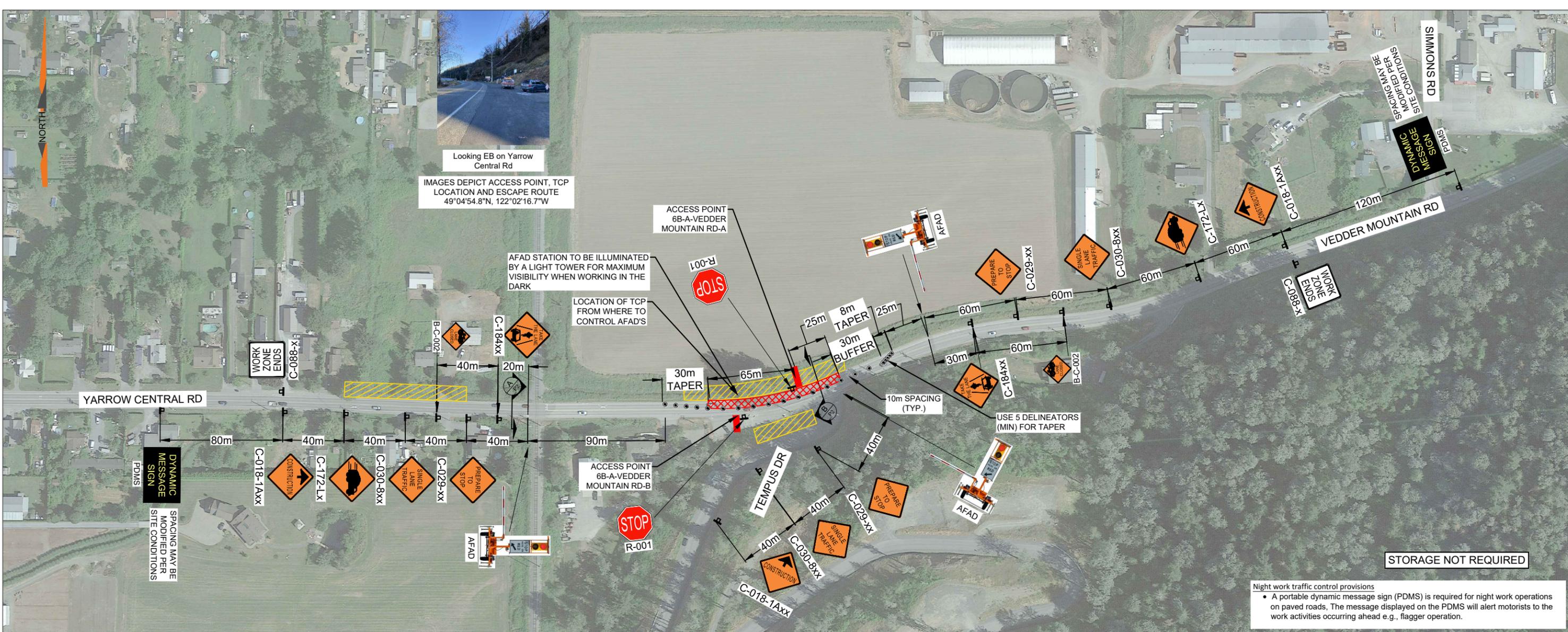
REVISIONS		SCALE: NOT TO SCALE				
0	ISSUED FOR IMPLEMENTATION	JAN 12-23	DESIGNED: KB	DRAWN: KB	CHECKED: KM	APRVD: KM
1			DESIGN VEHICLE:		DESIGN SPEED:	
2					50/60 km/h	
3			PROJECT NO:		DRAWING NO:	
4			3431.B01		6B-A-VEDDER-A&B-SLAT_P1	
5			DATE:		REVISION:	
6			JAN 12, 2023		0	
7						
8						

**TITLE: TRAFFIC CONTROL LAYOUT**  
**AP 6B-A-VEDDER MOUNTAIN RD-A&B-SLAT**  
**BPLP TMEP SPREAD 6B**



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

PROJECT: V:\Project Files\3431 - TMEP Spread 615 - Design\SLATAP-6B-A-VEDDER MOUNTAIN RD-A & B-SLAT\_P2\_2023-01-12.dwg  
 PLOT DATE: 11/2/2023 2:17 PM  
 PLOTTED BY: Kathleen Blaker



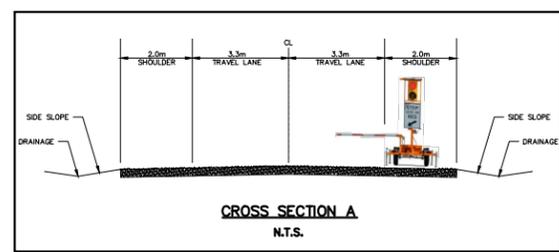
Looking EB on Yarrow Central Rd  
 IMAGES DEPICT ACCESS POINT, TCP LOCATION AND ESCAPE ROUTE  
 49°04'54.8"N, 122°02'16.7"W

AFAD STATION TO BE ILLUMINATED BY A LIGHT TOWER FOR MAXIMUM VISIBILITY WHEN WORKING IN THE DARK  
 LOCATION OF TCP FROM WHERE TO CONTROL AFAD'S

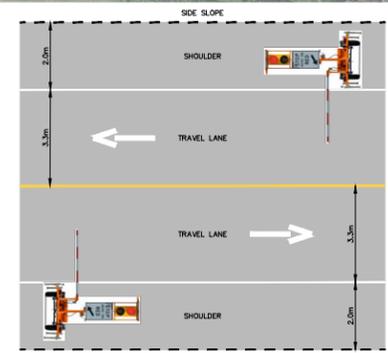
ACCESS POINT 6B-A-VEDDER MOUNTAIN RD-B

STORAGE NOT REQUIRED

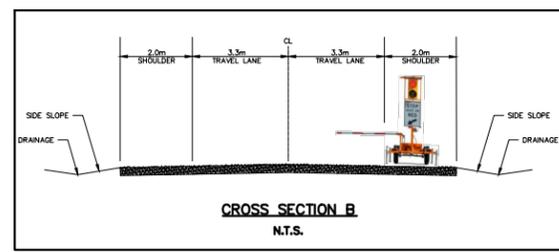
Night work traffic control provisions  
 • A portable dynamic message sign (PDMS) is required for night work operations on paved roads. The message displayed on the PDMS will alert motorists to the work activities occurring ahead e.g., flagger operation.



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-VEDDER MOUNTAIN RD-A&B)
- WORK ZONE

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

SEAL:

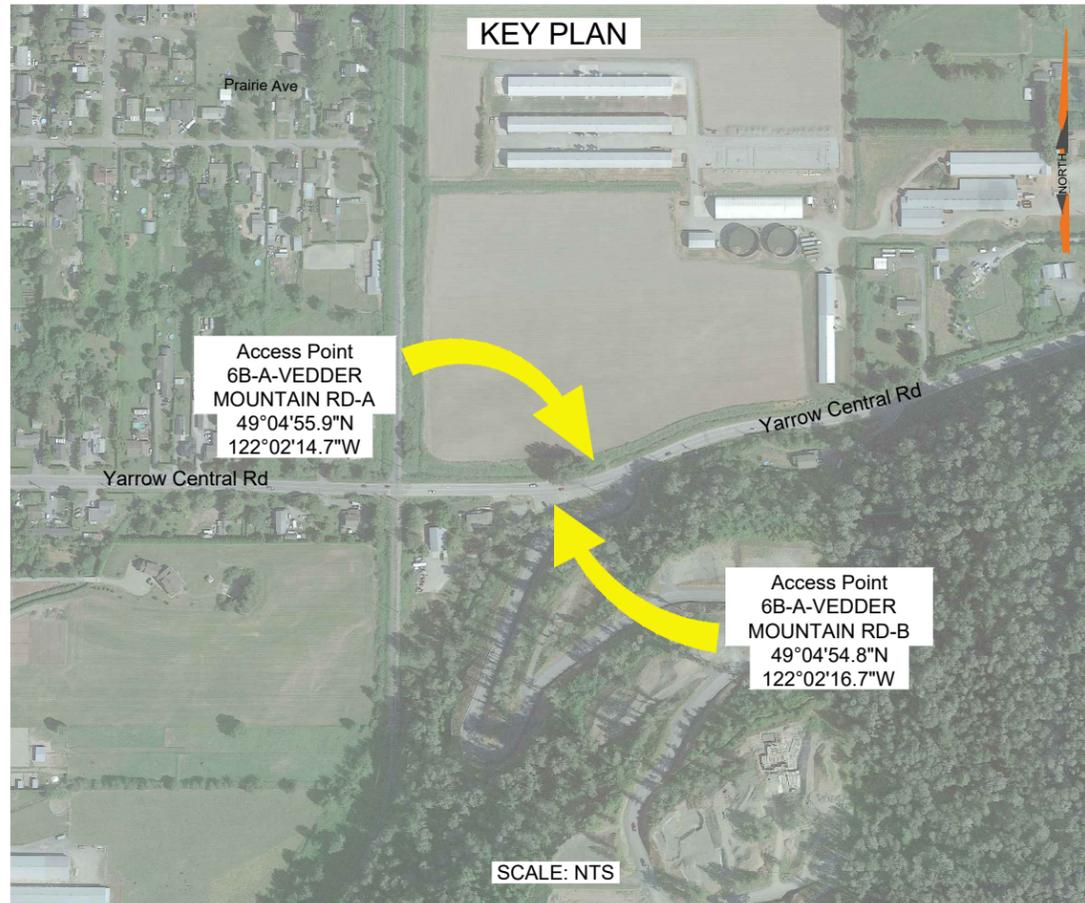
REVISIONS		0 31.25m 62.5m 125m				
0	ISSUED FOR IMPLEMENTATION	JAN 12-23	DESIGNED: KB	DRAWN: KB	CHECKED: KM	APRVD: KM
1			DESIGN VEHICLE: DESIGN SPEED: 50/60 km/h			
2			PROJECT NO: 3431.B01			
3			DRAWING NO: 6B-A-VEDDER-A&B-SLAT_P2			
4			DATE: JAN 12, 2023			
5			REVISION: 0			
6						
7						
8						

TITLE: **TRAFFIC CONTROL LAYOUT**  
**AP 6B-A-VEDDER MOUNTAIN RD-A&B-SLAT**  
**BPLP TMEP SPREAD 6B**

Calgary, Edmonton, Lloydminster,  
 Okanagan, Vancouver, Victoria  
 WATTCONSULTINGGROUP.COM



PROJECT: V:\Project Files\3431 - TMEP Spread 615 - Design\TCP\WAP-6B-AVEDDER MOUNTAIN RD-A & B - TCP - R2\_2023-01-11.dwg  
 PLOT DATE: 1/11/2023 11:47 AM  
 PLOTTED BY: Kathleen Blaker  
 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-VEDDER MOUNTAIN RD-A&B			
CATEGORY 1 - YARROW CENTRAL RD		POSTED SPEED, km/h	50/60
ANTICIPATED AADT, VEH / DAY (2022)	7033	ANTICIPATED SADT, VEH / DAY (2019)	NA
NOTE: TRAFFIC DATA IS SOURCED FROM CITY OF CHILLIWACK			
TCP NUMBER	01-13283-S6-M002-HS-PLN-0367		
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	TO		ZONE	TO
AHEAD	STOP		AHEAD	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 ERECTED 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 ERECTED 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.

LIST OF DRAWINGS	
NO.	TITLE
6B-A-VEDDER-A&B-TCPr_P1	TRAFFIC CONTROL LAYOUT PLAN COVER SHEET
6B-A-VEDDER-A&B-TCPr_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 JAN 5-23
1	ISSUED FOR IMPLEMENTATION JAN 9-23
2	ISSUED FOR IMPLEMENTATION JAN 11-23
3	
4	
5	
6	
7	
8	

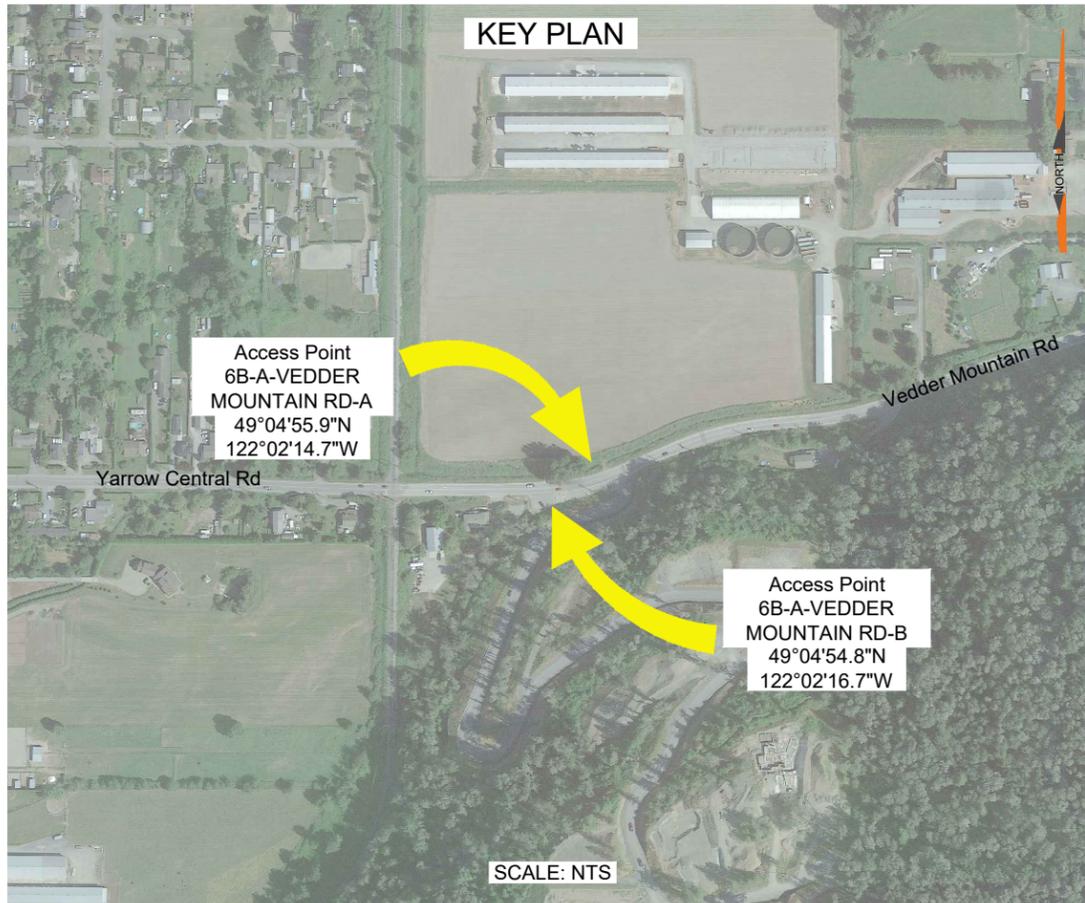
SCALE: NOT TO SCALE			
DESIGNED: KB	DRAWN: KB	CHECKED: KM	APRVD: KM
DESIGN VEHICLE:		DESIGN SPEED: 50/60 km/h	
PROJECT NO: 3431.B01		DRAWING NO: 6B-A-VEDDER-A&B-TCPr_P1	
DATE: JAN 5, 2023		REVISION: 2	

**TITLE: TRAFFIC CONTROL LAYOUT**  
**AP 6B-A-VEDDER MOUNTAIN RD-A&B-TCPr**  
**BPLP TMEP SPREAD 6B**

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



PROJECT: V:\Project Files\3431 - TMEP Spread 615 - Design\FAD\AP-6B-A-VEDDER MOUNTAIN RD-A & B\_AFAD\_P2\_2023-01-12.dwg  
 PLOT DATE: 1/12/2023 2:19 PM  
 PLOTTED BY: Kathleen Blaker  
 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-VEDDER MOUNTAIN RD-A&B			
CATEGORY 1 - YARROW CENTRAL RD		POSTED SPEED, km/h	50/60
ANTICIPATED AADT, VEH / DAY (2022)	7033	ANTICIPATED SADT, VEH / DAY (2019)	NA
NOTE: TRAFFIC DATA IS SOURCED FROM CITY OF CHILLIWACK			
TCP NUMBER	01-13283-S6-M002-HS-PLN-0367		
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	TO		ZONE	TO
AHEAD	STOP		AHEAD	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 ERECTED 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 ERECTED 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-VEDDER-A&B_P1	TRAFFIC CONTROL LAYOUT PLAN COVER SHEET
6B-A-VEDDER-A&B_P2	TRAFFIC CONTROL LAYOUT PLAN

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

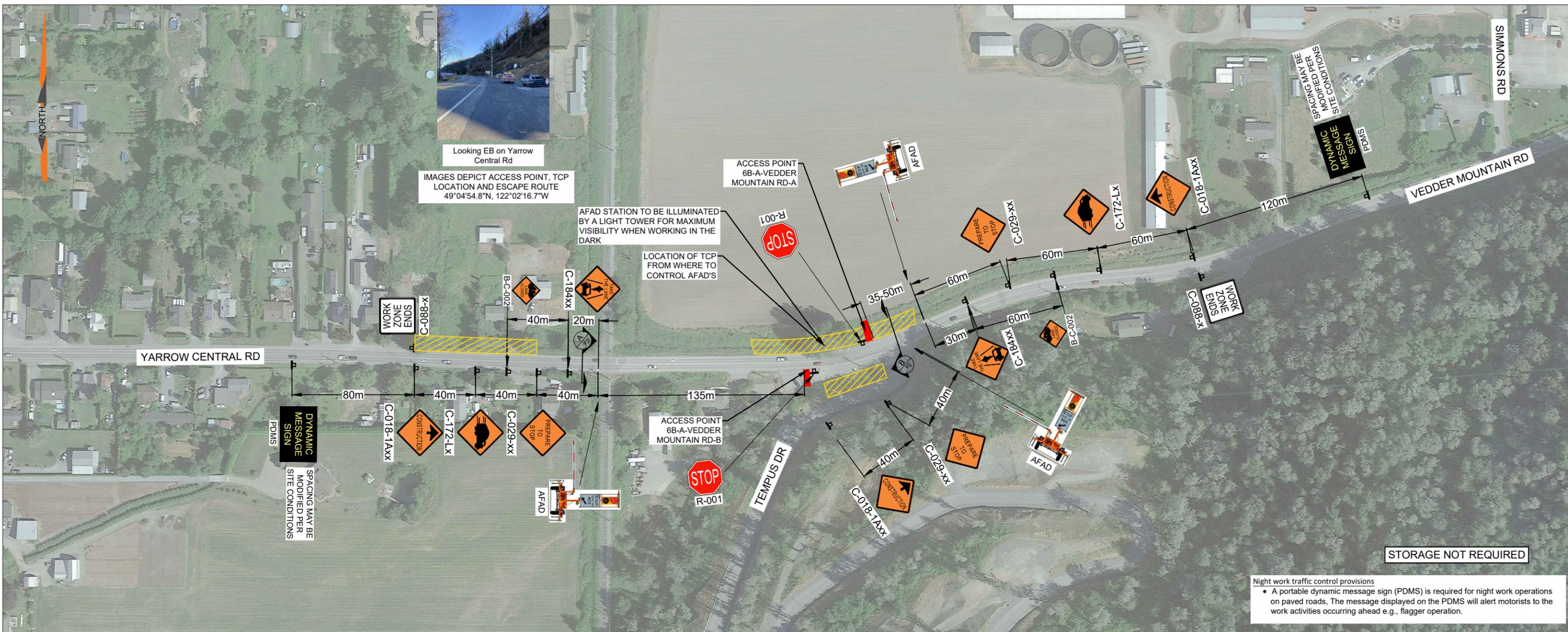
SEAL:

REVISIONS		SCALE: NOT TO SCALE				
0	ISSUED FOR IMPLEMENTATION	JAN 5-23	DESIGNED: KB	DRAWN: KB	CHECKED: KM	APRVD: KM
1	ISSUED FOR IMPLEMENTATION	JAN 9-23	DESIGN VEHICLE:		DESIGN SPEED: 50/60 km/h	
2	ISSUED FOR IMPLEMENTATION	JAN 11-23	PROJECT NO: 3431.B01		DRAWING NO: 6B-A-VEDDER-A&B_P1	
3	ISSUED FOR IMPLEMENTATION	JAN 12-23	DATE: JAN 5, 2023		REVISION: 3	
4						
5						
6						
7						
8						

**TITLE: TRAFFIC CONTROL LAYOUT**  
**AP 6B-A-VEDDER MOUNTAIN RD-A&B**  
**BPLP TMEP SPREAD 6B**

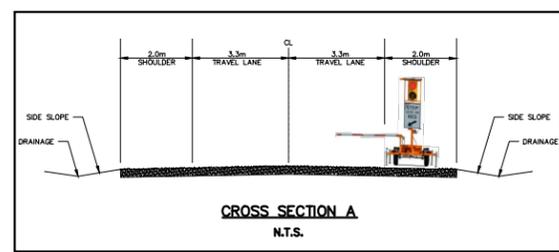
Calgary, Edmonton, Lloydminster,  
 Okanagan, Vancouver, Victoria  
**WATT Consulting Group**  
[WATTCONSULTINGGROUP.COM](http://WATTCONSULTINGGROUP.COM)

PROJECT: V:\Project Files\3431 - TMEP Spread 6B - Design\AFAD\AP-6B-A-VEDDER MOUNTAIN RD-A & B\_AFAD\_P2\_2023-01-12.dwg  
 PLOT DATE: 1/12/2023 2:19 PM  
 PLOTTED BY: Kathleen Blaker

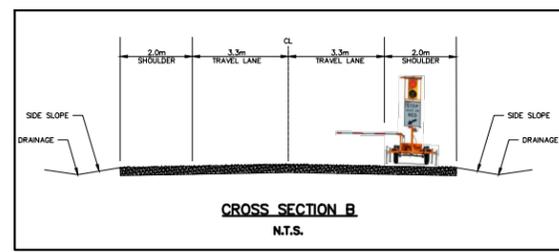


**Night work traffic control provisions**

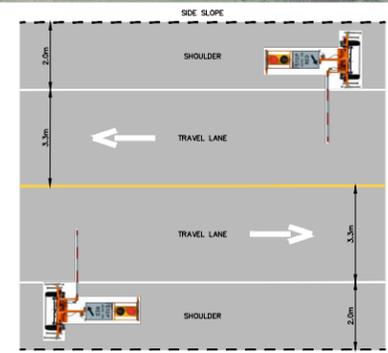
- A portable dynamic message sign (PDMS) is required for night work operations on paved roads. The message displayed on the PDMS will alert motorists to the work activities occurring ahead e.g., flagger operation.



NOTE: DIMENSIONS SHOWN ARE SITE SPECIFIC



NOTE: DIMENSIONS SHOWN ARE SITE SPECIFIC



NOTE: DIMENSIONS SHOWN ON PLAN VIEWS ARE SITE SPECIFIC

**LEGEND:**

- SIGN MARKER
- AUTOMATED FLAGGER ASSISTANCE DEVICE (AFAD)
- TCP CONTROL LOCATION
- ACCESS (6B-A-VEDDER MOUNTAIN RD-A&B)

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

SEAL:

REVISIONS	
0	ISSUED FOR IMPLEMENTATION JAN 5-23
1	ISSUED FOR IMPLEMENTATION JAN 9-23
2	ISSUED FOR IMPLEMENTATION JAN 11-23
3	ISSUED FOR IMPLEMENTATION JAN 12-23
4	
5	
6	
7	
8	

DESIGNED: KB	DRAWN: KB	CHECKED: KM	APRVD: KM
DESIGN VEHICLE:		DESIGN SPEED: 50/60 km/h	
PROJECT NO: 3431.B01		DRAWING NO: 6B-A-VEDDER-A&B_P2	
DATE: JAN 5, 2023		REVISION: 3	

TITLE: **TRAFFIC CONTROL LAYOUT**  
**AP 6B-A-VEDDER MOUNTAIN RD-A&B**  
**BPLP TMEP SPREAD 6B**

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