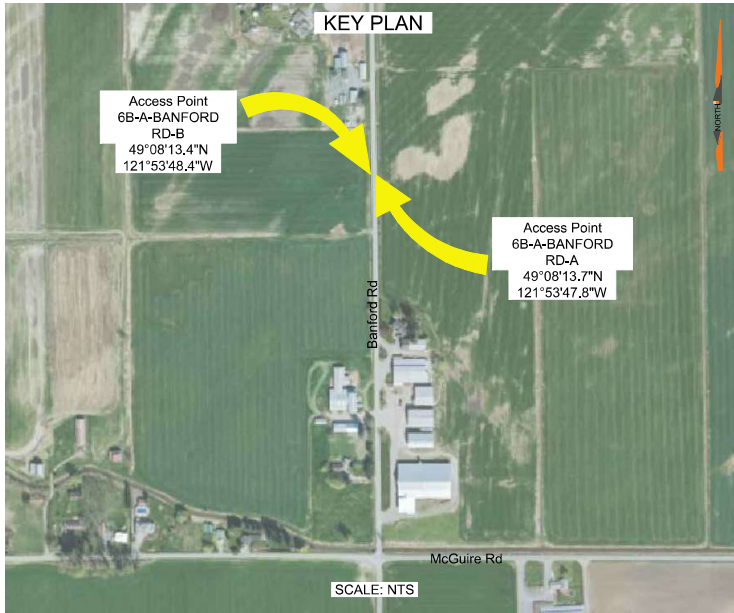


PROJECT: W-1727-2023-11-09-AM
 DRAWN BY: WATT CONSULTING GROUP
 CHECKED BY: WATT CONSULTING GROUP
 DATE: 2023-11-09
 SCALE: AS SHOWN
 TITLE: TRAFFIC CONTROL LAYOUT PLAN
 PROJECT NO: 3431.B01
 DRAWING NO: 6B-A-BANFORD-A&B-SLAT_P1
 REVISION: 1
 THESE DESIGN DOCUMENTS ARE PREPARED SOLELY FOR THE USE BY 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-BANFORD RD-A&B			
CATEGORY 1 - BANFORD RD		POSTED SPEED, km/h	60
ANTICIPATED AADT, VEH / DAY (2022)	<1000	ANTICIPATED SADT, VEH / DAY (2019)	NA
NOTE: TRAFFIC DATA ESTIMATED BASED ON TAC GEOMETRIC DESIGN GUIDE FOR CANADIAN ROADS			
TCP NUMBER	01-13283-S6-M002-HS-PLN-0391		
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 JAN 20, 2023
1	ISSUED FOR IMPLEMENTATION JAN 27-23
2	
3	
4	
5	
6	
7	
8	

SCALE:		NOT TO SCALE	
DESIGNED: TV	DRAWN: TV	CHECKED: KM	APRVD: KM
DESIGN VEHICLE:		DESIGN SPEED: 60 km/h	
PROJECT NO: 3431.B01	DRAWING NO: 6B-A-BANFORD-A&B-SLAT_P1		
DATE: JAN 20, 2023	REVISION: 1		

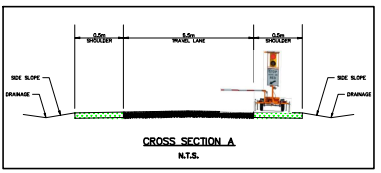
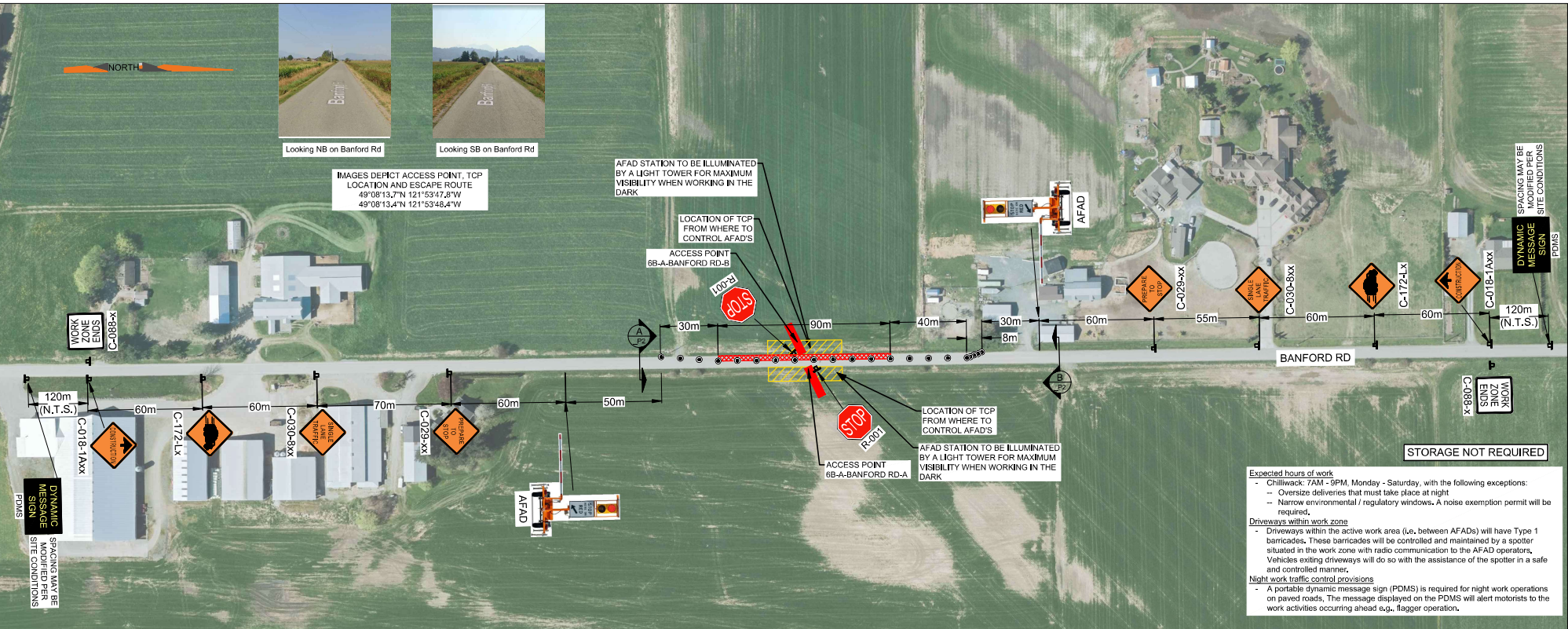
TITLE: TRAFFIC CONTROL LAYOUT AP 6B-A-BANFORD RD-A&B-SLAT BPLP TMEP SPREAD 6B

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 Okanagan, Vancouver, Victoria
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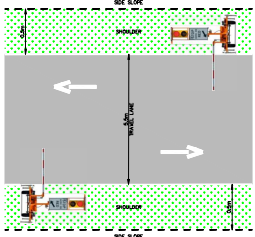
GENERAL NOTES:

- 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, D) 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.

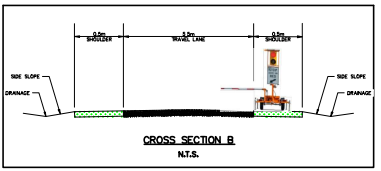
PROJECT: W/104447/2023-01 - T2023-Spread 6B - Design/Drawn: WATT CONSULTING GROUP LTD. B.C. REG. NO. 127203/23-10-AM
 PLAN DATE: 1/27/2023 11:10 AM
 PLAN TITLE: Permit to Practice



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-BANFORD RD-A&B)
- WORK ZONE

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

SEAL:

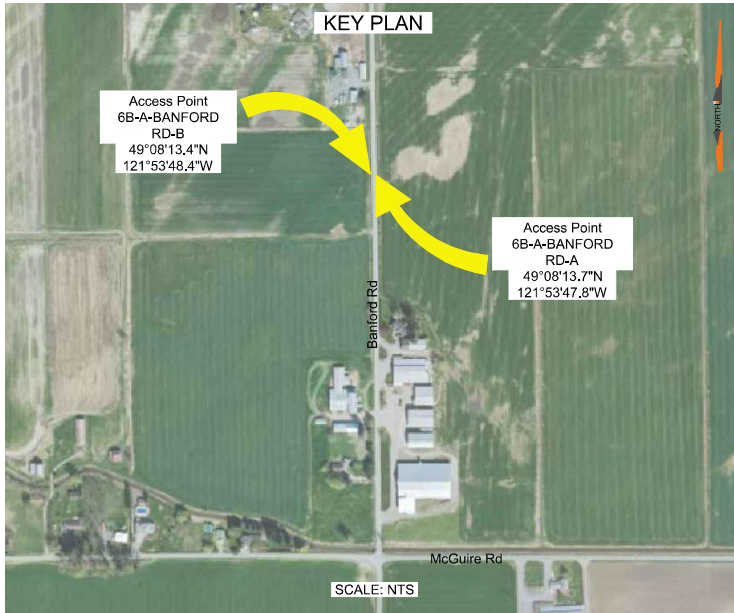
REVISIONS	
0 ISSUED FOR IMPLEMENTATION	JAN 20, 2023
1 ISSUED FOR IMPLEMENTATION	JAN 27-23
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7	
8	

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DESIGNED: TV	DRAWN: TV
CHECKED: KM	APRVD: KM
DESIGN VEHICLE: 60 km/h	
DESIGN SPEED: 60 km/h	
PROJECT NO: 3431.B01	DRAWING NO: 6B-A-BANFORD-A&B-SLAT_P3
DATE: JAN 20, 2023	REVISION: 1

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

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 Okanagan, Vancouver, Victoria
WATT CONSULTING GROUP
 CONSULTING GROUP WATTCONSULTINGGROUP.COM

PROJECT: W-1727-2023-11-00-AM
 PLAN DATE: 1/27/2023 11:00 AM
 PLOTTED BY: [Name]
 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-BANFORD RD-A&B			
CATEGORY 1 - BANFORD RD		POSTED SPEED, km/h	60
ANTICIPATED AADT, VEH / DAY (2022)	<1000	ANTICIPATED SADT, VEH / DAY (2019)	NA
NOTE: TRAFFIC DATA ESTIMATED BASED ON TAC GEOMETRIC DESIGN GUIDE FOR CANADIAN ROADS			
TCP NUMBER	01-13283-S6-M002-HS-PLN-0391		
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

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- 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-BANFORD-A&B_P1	TRAFFIC CONTROL LAYOUT PLAN COVER SHEET
6B-A-BANFORD-A&B_P2	TRAFFIC CONTROL LAYOUT PLAN

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

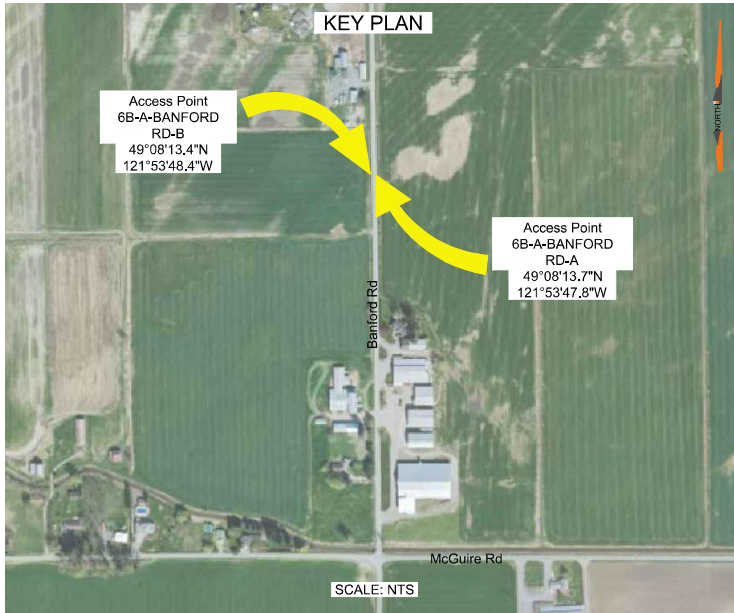
SEAL:

REVISIONS		SCALE:		NOT TO SCALE	
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2					APRVD:
3					KM
4			DESIGN VEHICLE:	DESIGN SPEED:	
5				60 km/h	
6			PROJECT NO:	DRAWING NO:	
7			3431.B01	6B-A-BANFORD-A&B_P1	
8			DATE:	REVISION:	
			JAN 20, 2023	1	

TITLE: TRAFFIC CONTROL LAYOUT AP 6B-A-BANFORD RD-A&B BPLP TMEP SPREAD 6B

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 Okanagan, Vancouver, Victoria
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SITE ID: AP-6B-A-BANFORD RD-A&B			
CATEGORY 1 - BANFORD RD		POSTED SPEED, km/h	60
ANTICIPATED AADT, VEH / DAY (2022)	<1000	ANTICIPATED SADT, VEH / DAY (2019)	NA
NOTE: TRAFFIC DATA ESTIMATED BASED ON TAC GEOMETRIC DESIGN GUIDE FOR CANADIAN ROADS			
TCP NUMBER	01-13283-S6-M002-HS-PLN-0391		
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 JAN 20, 2023
1	ISSUED FOR IMPLEMENTATION JAN 27-23
2	
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7	
8	

SCALE: NOT TO SCALE	
DESIGNED: TV	DRAWN: TV
CHECKED: KM	APRVD: KM
DESIGN VEHICLE: 60 km/h	
PROJECT NO: 3431.B01	DRAWING NO: 6B-A-BANFORD-A&B-TCP_P1
DATE: JAN 20, 2023	REVISION: 1

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

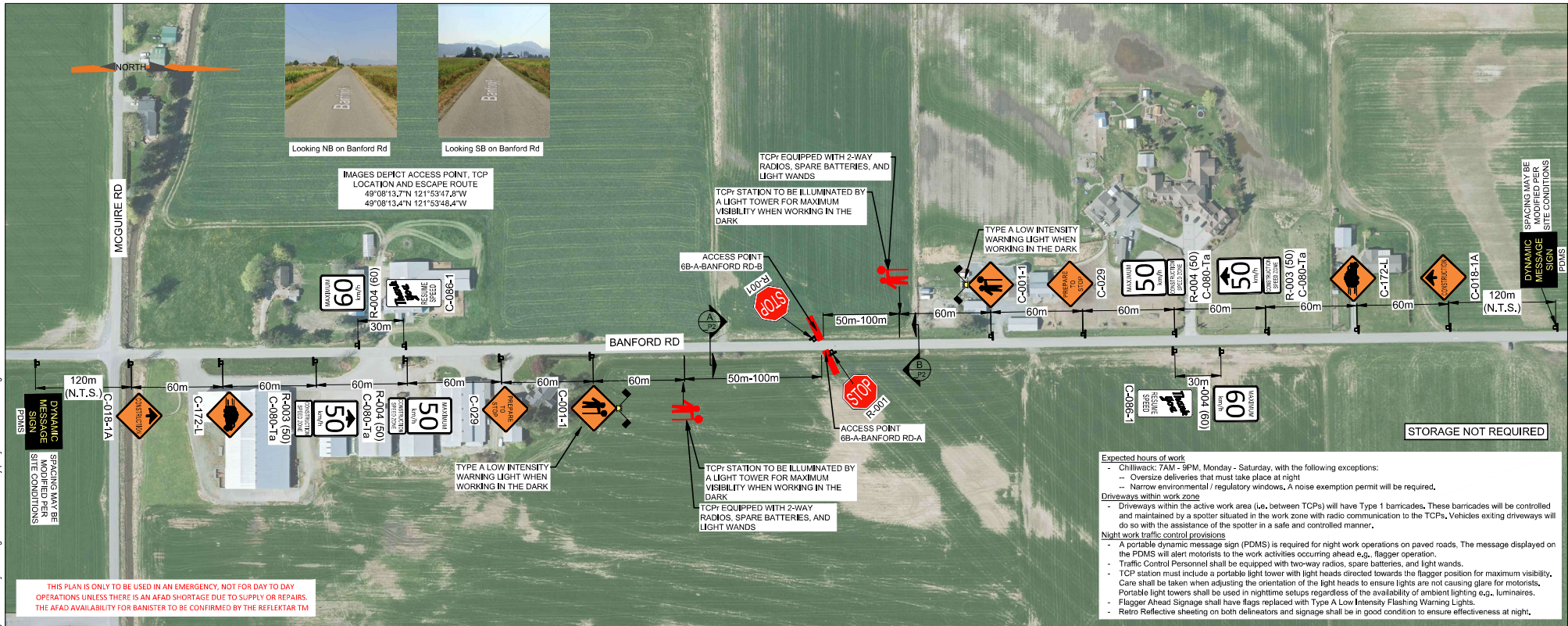


Calgary, Edmonton, Lloydminster, Okanagan, Vancouver, Victoria
WATT CONSULTING GROUP.COM

GENERAL NOTES:

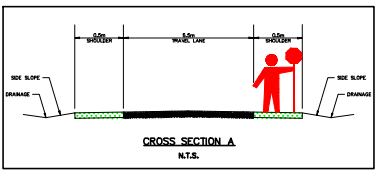
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- APPENDIX F OF TRAFFIC CONTROL PLAN DETAILS: A) RISK ASSESSMENT, B) AFAD (AUTOMATED FLAGGER ASSISTED DEVICE) AND TCP REQUIREMENTS AND OPERATIONS PER WORKSAFE BC PART 18 OHSR, C) THE ENVIRONMENTAL TRAFFIC RISKS SPECIFIC TO THIS SITE.
- SIGHT DISTANCE 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.

Without Prejudice - 2023 Speed - 65 - Design TCP/AFAD/6B-A-BANFORD RD-A & B - T.C.P. # 1001432-07-000
 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.
 PROJECT: 1001432-07-000
 DATE: 1/27/2023 11:03 AM
 DRAWN BY: [Name]

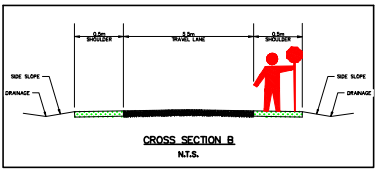


THIS PLAN IS ONLY TO BE USED IN AN EMERGENCY, NOT FOR DAY TO DAY OPERATIONS UNLESS THERE IS AN AFAD SHORTAGE DUE TO SUPPLY OR REPAIRS. THE AFAD AVAILABILITY FOR BANFORD RD TO BE CONFIRMED BY THE REFLEKTAR TM

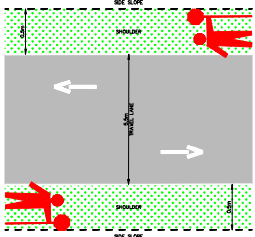
- Expected hours of work**
- Onsite: 7AM - 9PM, Monday - Saturday, with the following exceptions:
 - Oversize deliveries that must take place at night
 - Narrow environmental / regulatory windows, A noise exemption permit will be required.
- Driveways within work zone**
- Driveways within the active work area (i.e. between TCPs) 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 TCPs. 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.
 - Traffic Control Personnel shall be equipped with two-way radios, spare batteries, and light wands.
 - TCP station must include a portable light tower with light heads directed towards the flagger position for maximum visibility. Care shall be taken when adjusting the orientation of the light heads to ensure lights are not causing glare for motorists. Portable light towers shall be used in nighttime setups regardless of the availability of ambient lighting e.g., luminaires.
 - Flagger Ahead: Signage shall have flags replaced with Type A Low Intensity Flashing Warning Lights.
 - Retro Reflective sheeting on both delineators and signage shall be in good condition to ensure effectiveness at night.



NOTE: DIMENSIONS SHOWN ARE SITE SPECIFIC



NOTE: DIMENSIONS SHOWN ARE SITE SPECIFIC



NOTE: DIMENSIONS SHOWN ON PLAN VIEWS ARE SITE SPECIFIC

LEGEND:

- SIGN MARKER
- TCP CONTROL LOCATION
- ACCESS (6B-A-BANFORD RD-A&B)

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 20, 2023	1:2,500		
1	ISSUED FOR IMPLEMENTATION	JAN 27-23	DESIGNED: TV	DRAWN: TV	CHECKED: KM
2			APRVD: KM	DESIGN SPEED: 60 km/h	
3			PROJECT NO: 3431.B01		
4			DRAWING NO: 6B-A-BANFORD-A&B-TCP_P2		
5			REVISION: 1		
6			DATE: JAN 20, 2023		
7					
8					

TITLE: TRAFFIC CONTROL LAYOUT AP 6B-A-BANFORD RD-A&B-TCP BPLP TMEP SPREAD 6B

Calgary, Edmonton, Lloydminster, Okanagan, Vancouver, Victoria
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