



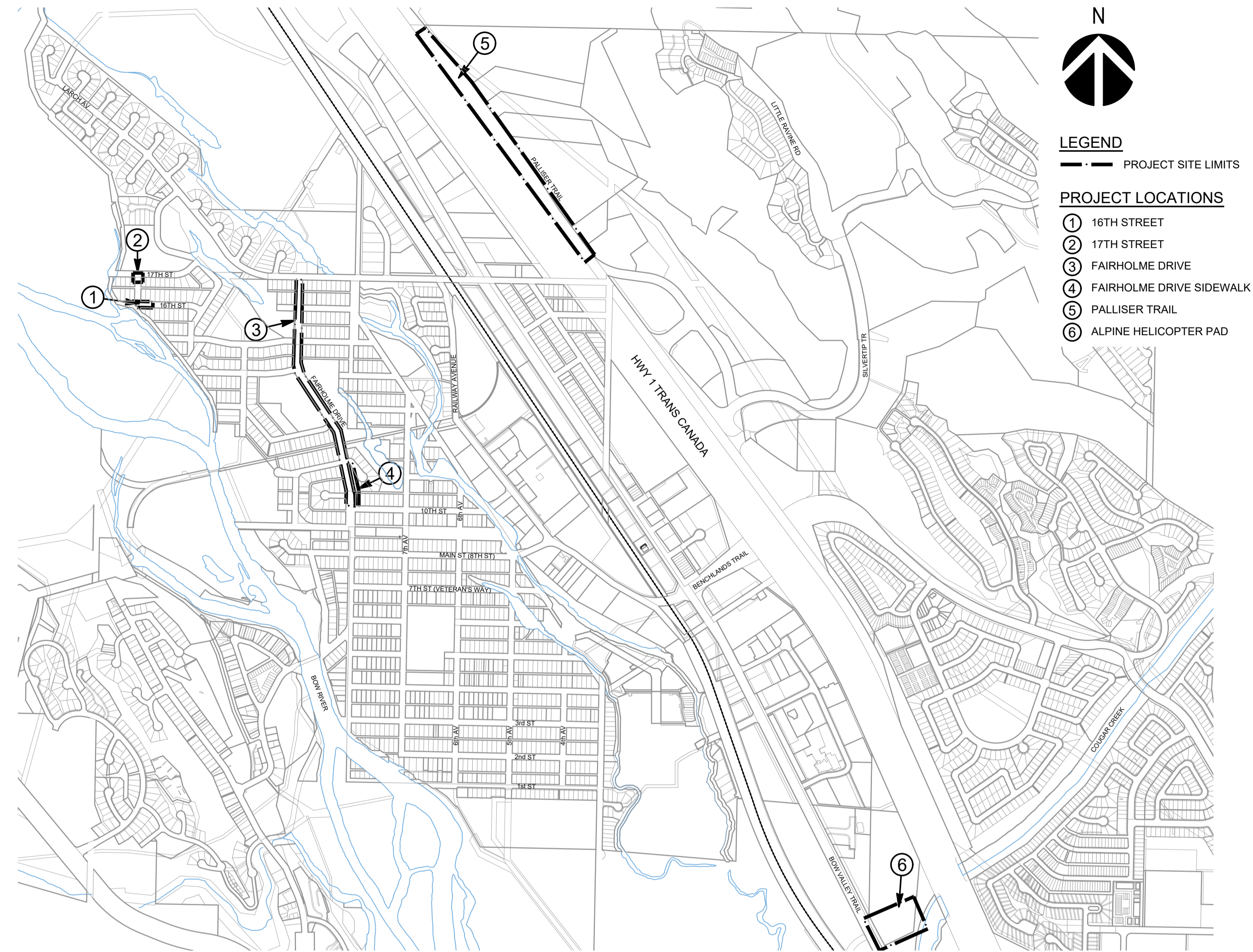
TOWN OF CANMORE
ENGINEERING SERVICES

CAP 7302 2023 STREETS & DRAINAGE IMPROVEMENTS PROGRAM

TOWN OF CANMORE

ISSUED FOR TENDER

WSP Project No: 231-01538-00
Date: 2023-08-04



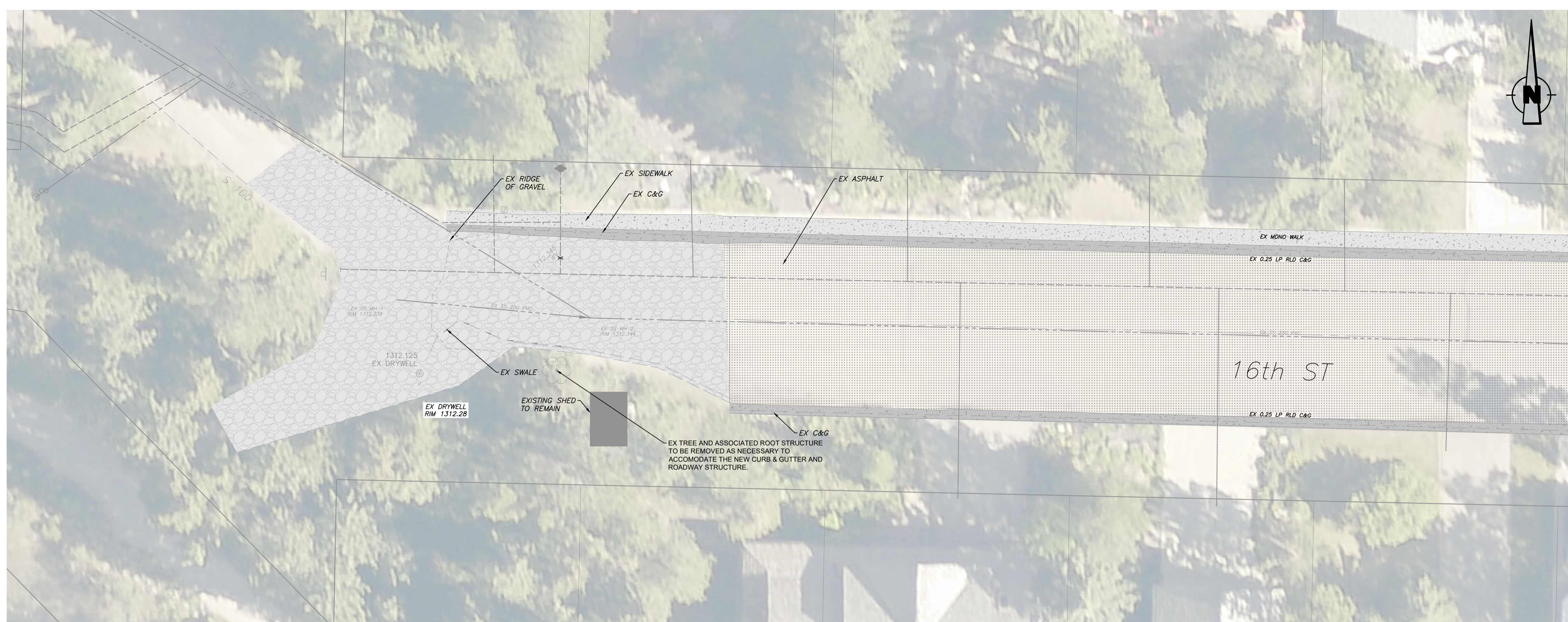
KEY PLAN
SCALE: 1:110,000

DRAWING INDEX	C500	ALPINE HELICOPTER PAD ASPHALT REHABILITATION
Sheet Number	C600	TYPICAL DETAILS
C000	C601	TYPICAL DETAILS
C100	C602	TYPICAL DETAILS
C200		
C300		
C301		
C302		
C303		
C304		
C305		
C400		
C401		

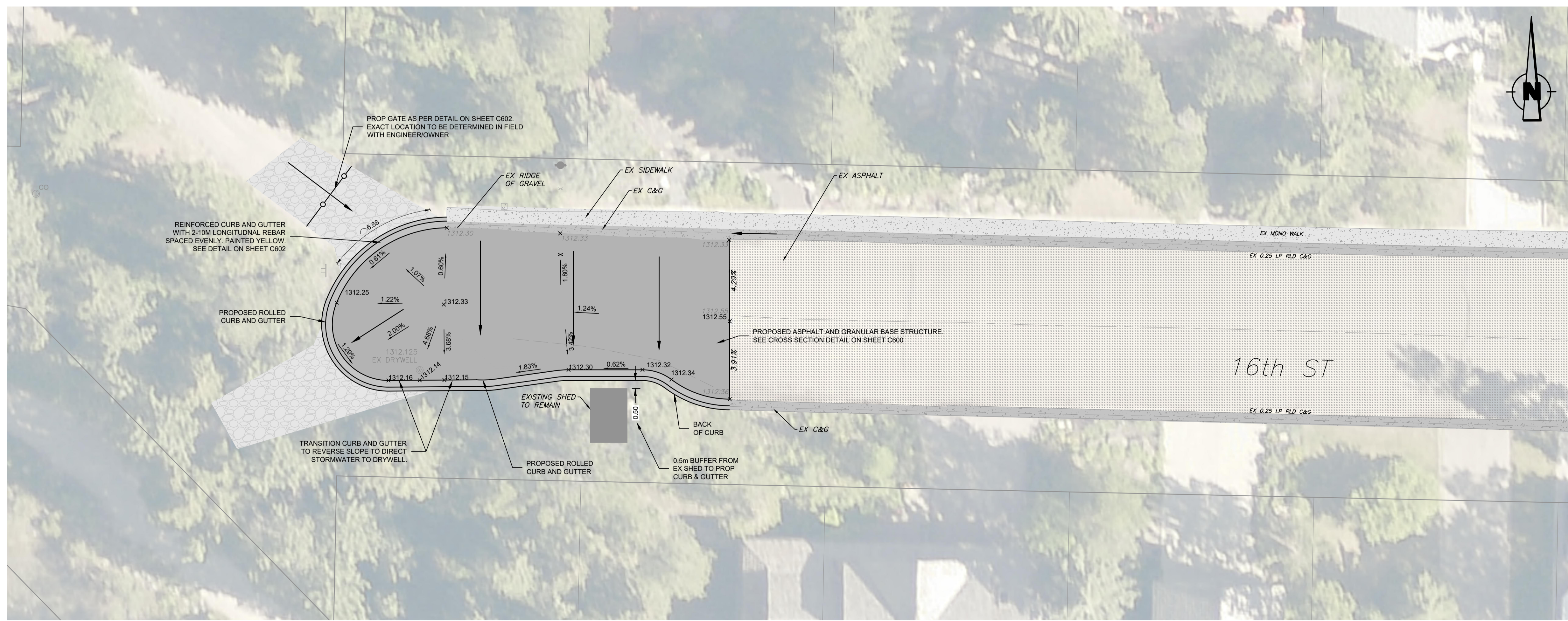
We see the future more clearly and design for it today.



Aug 04, 2023 - 11:52am
 \\csp\pwwork\ca\16th\2023\231-01538-00-01\16th_Street_Drainage_and_Surface_Improvements.dwg - Job: 16TH STREET DRAINAGE AND SURFACE IMPROVEMENTS



DEMOLITION - 16TH STREET



PROPOSED SURFACE IMPROVEMENTS - 16TH STREET

LEGEND

	CONSTRUCTION BOUNDARY
	EXISTING PROPERTY LINE
	EXISTING CURB AND GUTTER
	EXISTING EDGE OF ASPHALT
	EXISTING EDGE OF GRAVEL
	EXISTING CENTER LINE OF ROAD
	EXISTING TREE CANOPY
	EXISTING SANITARY SEWER PIPE
	EXISTING WATER PIPE c/w VALVE
	EXISTING OVERHEAD POWER LINE
	EXISTING SANITARY CLEAN OUT
	EXISTING FIRE HYDRANT
	EXISTING POWER POLE (APPROXIMATE LOCATION)
	EXISTING GRAVEL TO BE REGRADED
	EXISTING ASPHALT
	PROPOSED ASPHALT
	DIRECTION OF FLOW ARROWS
	EXISTING SPOT ELEVATION
	PROPOSED SPOT ELEVATION
	PROPOSED GRAVEL ROAD
	PROPOSED CENTER LINE OF ROAD
	PROPOSED GATE

- NOTES**
- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE TOWN OF CANMORE'S CURRENT ENGINEERING DESIGN AND CONSTRUCTION GUIDELINES.
 - EXCAVATION PERMITS AND ROAD USE/CLOSURE PERMITS WILL BE REQUIRED FROM THE TOWN OF CANMORE FOR ALL WORK WITHIN THE TOWN RIGHT-OF-WAY. THE CONTRACTOR IS RESPONSIBLE FOR NOTIFYING, MAINTAINING, AND COORDINATING ACCESS FOR AFFECTED RESIDENTS.
 - CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY APPROVALS FROM MUNICIPAL AND PROVINCIAL JURISDICTIONS PRIOR TO CONSTRUCTION INCLUDING EROSION CONTROL.
 - THE LOCATION OF ALL EXISTING INFRASTRUCTURE (SURFACE AND UNDERGROUND) TO BE CONFIRMED BY THE CONTRACTOR IN THE FIELD BEFORE CONSTRUCTION BEGINS.
 - EXISTING TIE-IN GRADES TO BE MAINTAINED.
 - ALL DISTANCES AND ELEVATION ARE IN METRES UNLESS OTHERWISE NOTED.
 - CLEARING AND GRUBBING LIMITS TO BE LAID OUT BY THE CONTRACTOR AND CONFIRMED BY THE ENGINEER PRIOR TO CONSTRUCTION.
 - MANHOLES AND VALVE TO BE ADJUSTED TO MATCH PROPOSED GRADES.

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PERMIT: _____ ENGINEER: _____
 APPROVED: _____ DRAWN: _____ DATE: 2022-06-14
 TM
 SCALE: **HORZ: 1:150**

MANAGER OF ENGINEERING _____
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 1 2023 07 19 ISSUED FOR APPROVAL JA JW JG
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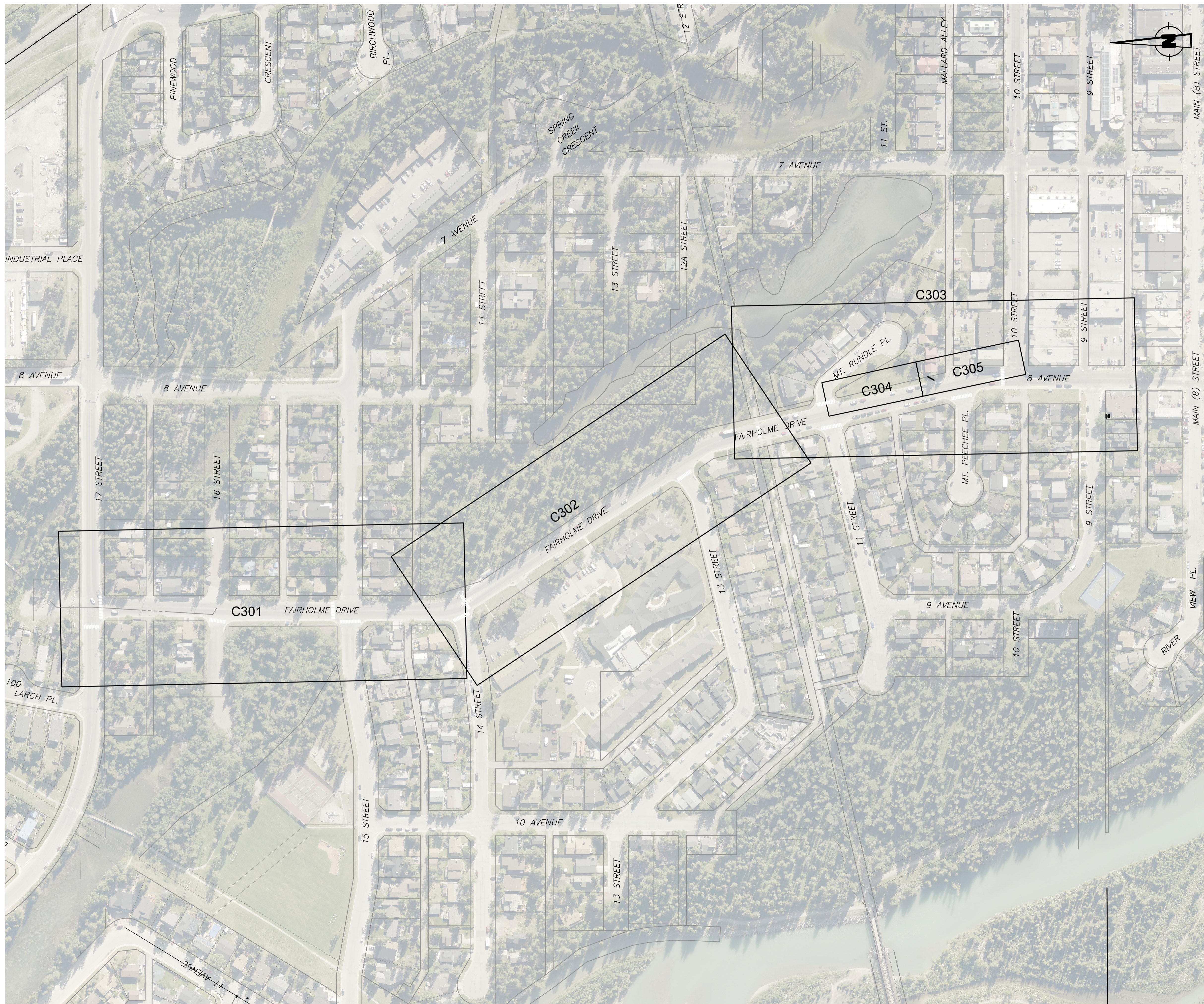
CONSULTANT:		CONSULTANT FILE NUMBER:	
WSP Canada Inc.		231-01538-00	

Town of Canmore
 ENGINEERING SERVICES

CAP 7302
OVERALL PLAN
16TH STREET DRAINAGE AND
SURFACE IMPROVEMENTS

SHEET NO: **C100** TOWN FILE NO: -

Aug 04, 2023 - 12:21:05
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PROPOSED SURFACE IMPROVEMENTS -FAIRHOLME DRIVE

1:1500 0 30 60m

LEGEND

- CONSTRUCTION BOUNDARY
- EXISTING PROPERTY LINE
- EXISTING CURB AND GUTTER

NOTES

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5. EXISTING TIE-IN GRADES TO BE MAINTAINED.
6. ALL DISTANCES AND ELEVATION ARE IN METRES UNLESS OTHERWISE NOTED.
7. MANHOLES AND VALVE TO BE ADJUSTED TO MATCH PROPOSED GRADES.
8. SPRAY PATCH EXTREME SEVERITY CRACKS PRIOR TO LEVEL COURSE AND OVERLAY.
9. EXTENT OF REQUIRED LEVEL COURSE TO BE DETERMINED ON SITE WITH ENGINEER PRIOR TO CONSTRUCTION.
10. AREAS TO HAVE EDGE MILL AND 70mm OVERLAY, SEE DETAIL (SHEET C601)



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PERMIT: _____ ENGINEER: _____

APPROVED: _____ DRAWN: TM DATE: 2023-03-02
 SCALE: HORZ: 1:1500

MANAGER OF ENGINEERING _____

TOWN OF CANMORE									
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CONSULTANT: WSP Canada Inc. CONSULTANT FILE NUMBER: 231-01538-00

Town of Canmore
ENGINEERING SERVICES

CAP 7302
OVERALL PLAN
FAIRHOLME DRIVE ASPHALT
REHABILITATION

SHEET NO: C300 TOWN FILE NO: -

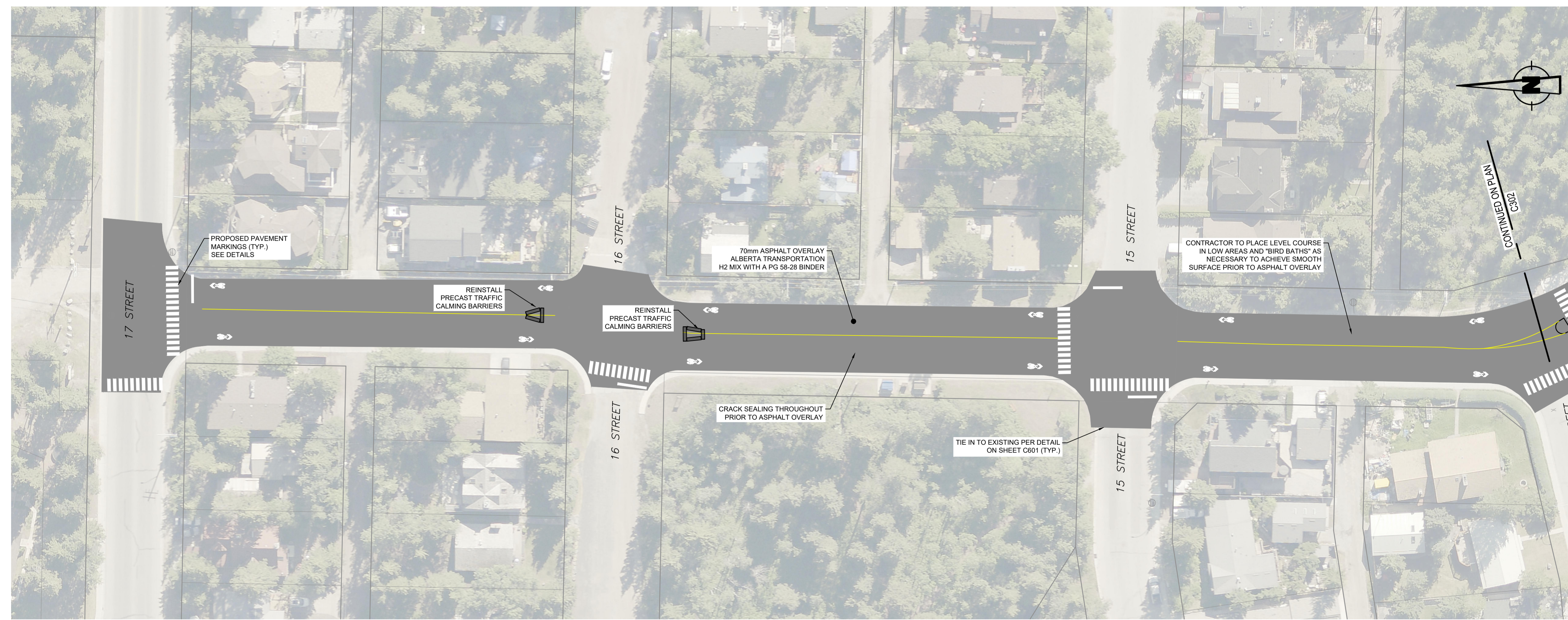


DEMOLITION - FAIRHOLME DRIVE

LEGEND

	CONSTRUCTION BOUNDARY
	EXISTING PROPERTY LINE
	EXISTING CURB AND GUTTER
	EXISTING EDGE OF ASPHALT
	EXISTING CENTER LINE OF ROAD
	EXISTING OVERHEAD POWER LINE
	EXISTING SANITARY CLEAN OUT
	EXISTING FIRE HYDRANT
	EXISTING SANITARY MANHOLE
	EXISTING SANITARY MANHOLE
	EXISTING WATER VALVE
	PROPOSED EDGE MILLING EXTENTS
	70mm ASPHALT OVERLAY EXTENTS
	DIRECTION OF FLOW ARROWS
	SHARED BIKE LANE (SHARROWS)

- NOTES**
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 - EXTENT OF REQUIRED LEVEL COURSE TO BE DETERMINED ON SITE WITH ENGINEER PRIOR TO CONSTRUCTION.
 - AREAS TO HAVE EDGE MILL AND 70mm OVERLAY, SEE DETAIL (SHEET C601)
 - EXACT EXTENTS OF OVERLAY TO BE LAID OUT ON SITE AND CONFIRMED WITH THE ENGINEER.



PROPOSED SURFACE IMPROVEMENTS - FAIRHOLME DRIVE

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PERMIT: _____
 APPROVED: _____
 MANAGER OF ENGINEERING

DRAWN: _____
 DATE: 2023-03-01

SCALE: **HORZ: 1:500**

TOWN OF CANMORE

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CONSULTANT: WSP Canada Inc. CONSULTANT FILE NUMBER: 231-01538-00

Town of Canmore
ENGINEERING SERVICES

CAP 7302

FAIRHOLME DRIVE ASPHALT REHABILITATION

SHEET NO: **C301** TOWN FILE NO: -

Aug 04, 2023 - 12:22PM
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DEMOLITION - FAIRHOLME DRIVE

LEGEND

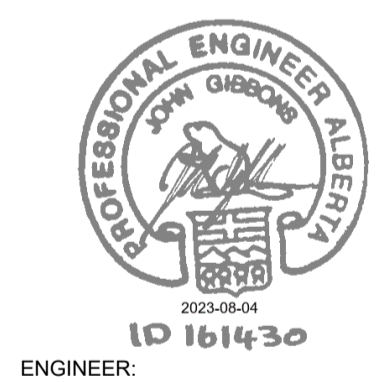
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	EXISTING PROPERTY LINE
	EXISTING CURB AND GUTTER
	EXISTING EDGE OF ASPHALT
	EXISTING CENTER LINE OF ROAD
	EXISTING OVERHEAD POWER LINE
	EXISTING SANITARY CLEAN OUT
	EXISTING FIRE HYDRANT
	EXISTING POWER POLE (APPROXIMATE LOCATION)
	EXISTING SANITARY MANHOLE
	EXISTING STORM MANHOLE
	EXISTING SANITARY MANHOLE
	EXISTING PIEZOMETER
	EXISTING WATER VALVE
	PROPOSED EDGE MILLING EXTENTS
	70mm ASPHALT OVERLAY EXTENTS
	DIRECTION OF FLOW ARROWS
	SHARED BIKE LANE (SHARROWS)

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 6. MANHOLES AND VALVE TO BE ADJUSTED TO MATCH PROPOSED GRADES.
 7. SPRAY PATCH EXTREME SEVERITY CRACKS PRIOR TO LEVEL COURSE AND OVERLAY.
 8. EXTENT OF REQUIRED LEVEL COURSE TO BE DETERMINED ON SITE WITH ENGINEER PRIOR TO CONSTRUCTION.
 9. AREAS TO HAVE EDGE MILL AND 70mm OVERLAY. SEE DETAIL (SHEET C601)
 10. EXACT EXTENTS OF OVERLAY TO BE LAID OUT ON SITE AND CONFIRMED WITH THE ENGINEER.



PROPOSED SURFACE IMPROVEMENTS - FAIRHOLME DRIVE

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PERMIT: _____ ENGINEER: _____

APPROVED: _____ DRAWN: TM DATE: 2023-03-01

MANAGER OF ENGINEERING _____ SCALE: **HORZ: 1:500**

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CONSULTANT: WSP Canada Inc. CONSULTANT FILE NUMBER: 231-01538-00

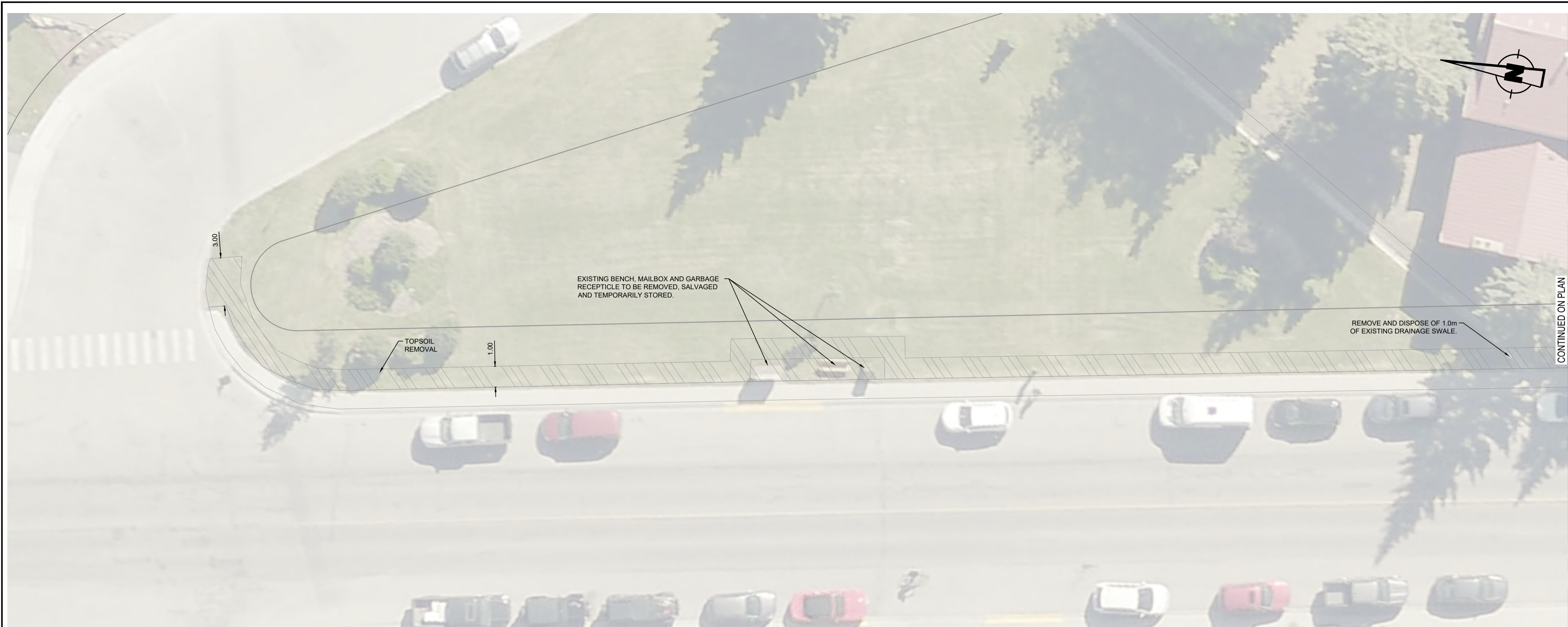
Town of **CANMORE** **ENGINEERING SERVICES**

CAP 7302

FAIRHOLME DRIVE ASPHALT REHABILITATION

SHEET NO: **C302** TOWN FILE NO: -

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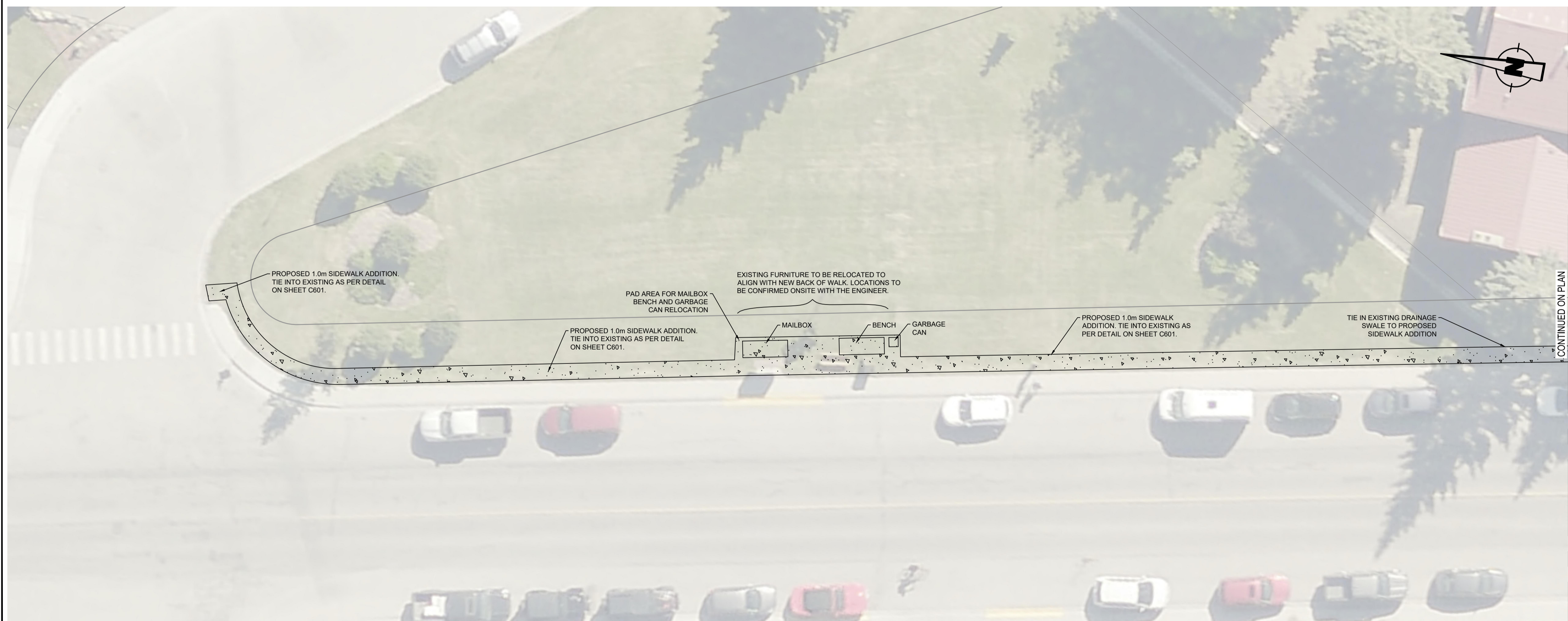


DEMOLITION - FAIRHOLME SIDEWALK

LEGEND

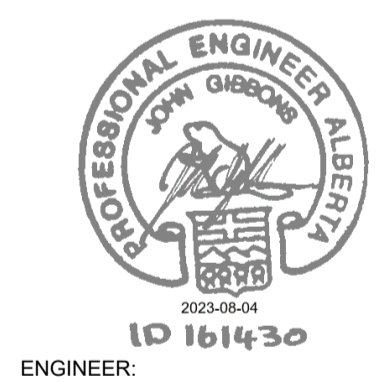
	CONSTRUCTION BOUNDARY
	EXISTING PROPERTY LINE
	EXISTING CURB AND GUTTER
	EXISTING EDGE OF ASPHALT
	EXISTING CENTER LINE OF ROAD
	EXISTING OVERHEAD POWER LINE
	EXISTING SANITARY CLEAN OUT
	EXISTING FIRE HYDRANT
	EXISTING POWER POLE (APPROXIMATE LOCATION)
	DEMOLITION OF EXISTING SIDEWALK
	DEMOLITION OF EXISTING LANDSCAPE
	PROPOSED CONCRETE WALKWAY
	PROPOSED LANDSCAPE
	DIRECTION OF FLOW ARROWS

- NOTES**
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 3. CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY APPROVALS FROM MUNICIPAL AND PROVINCIAL JURISDICTIONS PRIOR TO CONSTRUCTION.
 4. THE LOCATION OF ALL EXISTING INFRASTRUCTURE (HORIZONTAL & VERTICAL) TO BE CONFIRMED BY THE CONTRACTOR IN THE FIELD BEFORE CONSTRUCTION BEGINS.
 5. EXISTING GRADES TO BE MAINTAINED.
 6. ALL DISTANCES AND ELEVATION ARE IN METRES UNLESS OTHERWISE NOTED.
 7. EXISTING DRIVEWAY ACCESS TO BE REHABILITATED TO PRE-EXISTING CONDITIONS.



PROPOSED SURFACE IMPROVEMENTS - FAIRHOLME SIDEWALK

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APPROVED: _____ DRAWN: TM DATE: 2023-03-01

MANAGER OF ENGINEERING: _____ TOWN OF CANMORE SCALE: **HORZ: 1:150**

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CONSULTANT: WSP Canada Inc. CONSULTANT FILE NUMBER: 231-01538-00

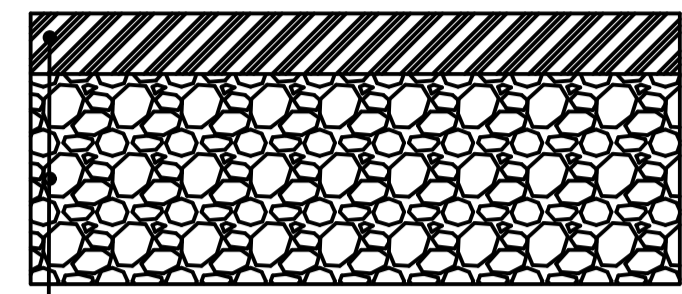
Town of Canmore ENGINEERING SERVICES

CAP 7302

FAIRHOLME SIDEWALK EXPANSION

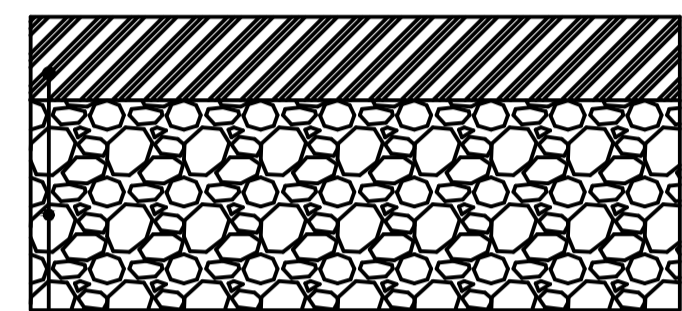
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80 mm ASPHALT CONCRETE PAVEMENT (ACP)
 SANDY GRAVEL, GP SOIL CLASS
 (DEPTH OF GRANULAR LAYER EXTENDS TO 2.2 m UNDERNEATH ACP)

EXISTING HELIPAD PAVEMENT STRUCTURE



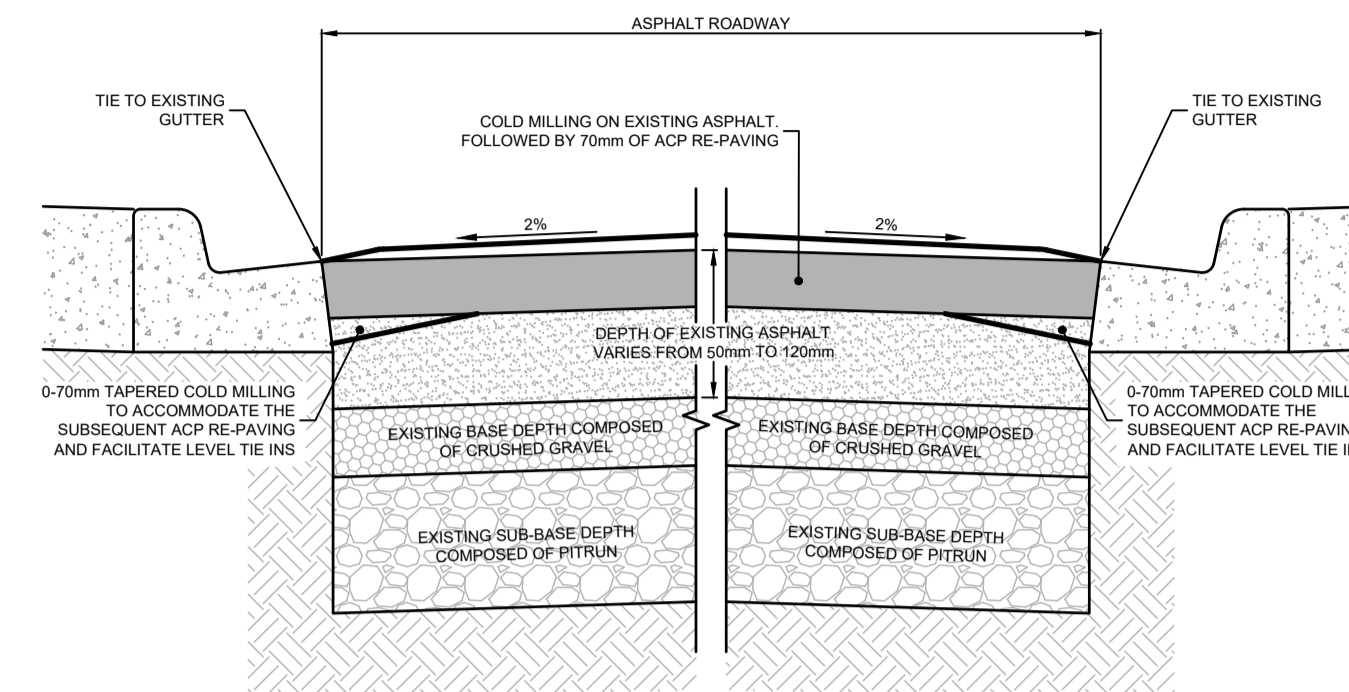
110 mm ASPHALT CONCRETE PAVEMENT
 (CALGARY MIX TYPE B, 60 mm SURFACE LIFT AND 50 mm BASE LIFT)
 SANDY GRAVEL, GP SOIL CLASS
 (THE TOP 200 mm OF THE GRANULAR LAYER SHALL BE PREPARED AND COMPACTED TO 100 % MAXIMUM DRY DENSITY DETERMINED BY ASTM D 698)

PROPOSED HELIPAD PAVEMENT STRUCTURE

- The existing 80 mm ACP shall be removed and replaced by 110 mm ACP
- After the existing ACP is removed, the surface of the granular subgrade shall be levelled and compacted to 100 % of the maximum dry density determined by ASTM D 698.
- The new ACP shall be placed in two lifts:
 - 60 mm Surface lift, and
 - 50 mm Base lift
- The City of Calgary Asphalt Concrete Mix Type B shall be used for surface and base lifts.
- The minimum Tensile Strength Ratio (TSR) of the Asphalt Concrete Mix shall be 80%.
- Reclaimed Asphalt Pavement (RAP) shall not be used in the surface lift mix.
- The ACP pavings shall be completed per the City of Calgary Roads Construction-2021-Standard Specification, as applicable.
- The prime coat shall be applied to the prepared subgrade. SS-1 diluted emulsified asphalt meeting the City of Calgary Roads-2021-Standard Specification shall be used for the prime coat application. The prime coat application shall be 2 liters per square metre.
- The tack coat shall be applied between the base and surface lifts. SS-1H emulsified asphalt that fulfills the City of Calgary Roads Construction-2021-Standard Specification shall be used for the tack coat application. The tack coat application rate shall not exceed 0.5 litres per square metre.

DETAIL - MUNICIPAL HELIPIPORT PAVEMENT STRUCTURE

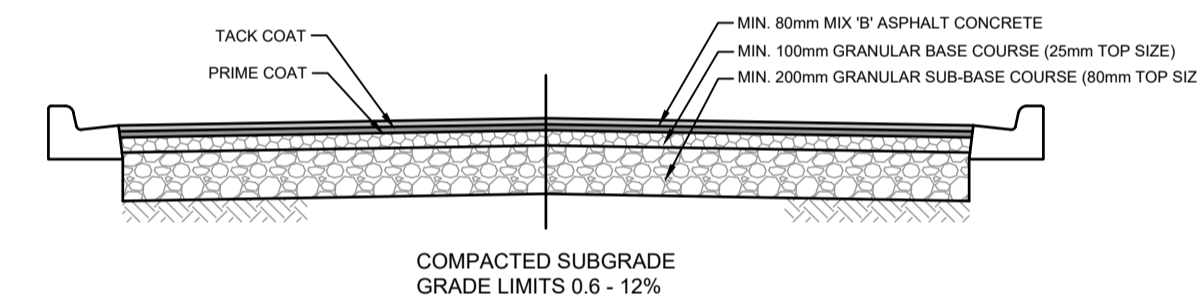
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- NOTE:
1. EXISTING LANE WIDTH VARIES.
 2. ACP MIX TYPE M1, ASPHALT BINDER GRADE PG 52-34
 3. ASPHALT MIX : MARSHALL MIX TYPE B.
 4. RAP IS NOT PERMITTED IN THE TOP LIFT.

DETAIL - FAIRHOLM DRIVE MILL & OVERLAY

SCALE: NTS



16th STREET SECTION

TYPICAL CROSS-SECTION

SCALE: NTS

LEGEND

NOTES

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PERMIT:

APPROVED:

MANAGER OF ENGINEERING
 TOWN OF CANMORE

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SCALE:

DATE:

2022-06-10

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CONSULTANT: WSP Canada Inc. CONSULTANT FILE NUMBER: 231-01538-00

Town of Canmore ENGINEERING SERVICES

CAP 7302

TYPICAL DETAILS

SHEET NO: C600 TOWN FILE NO: -

NOTES

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PERMIT: _____ ENGINEER: _____
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 SCALE: AS SHOWN
 MANAGER OF ENGINEERING: _____
 TOWN OF CANMORE

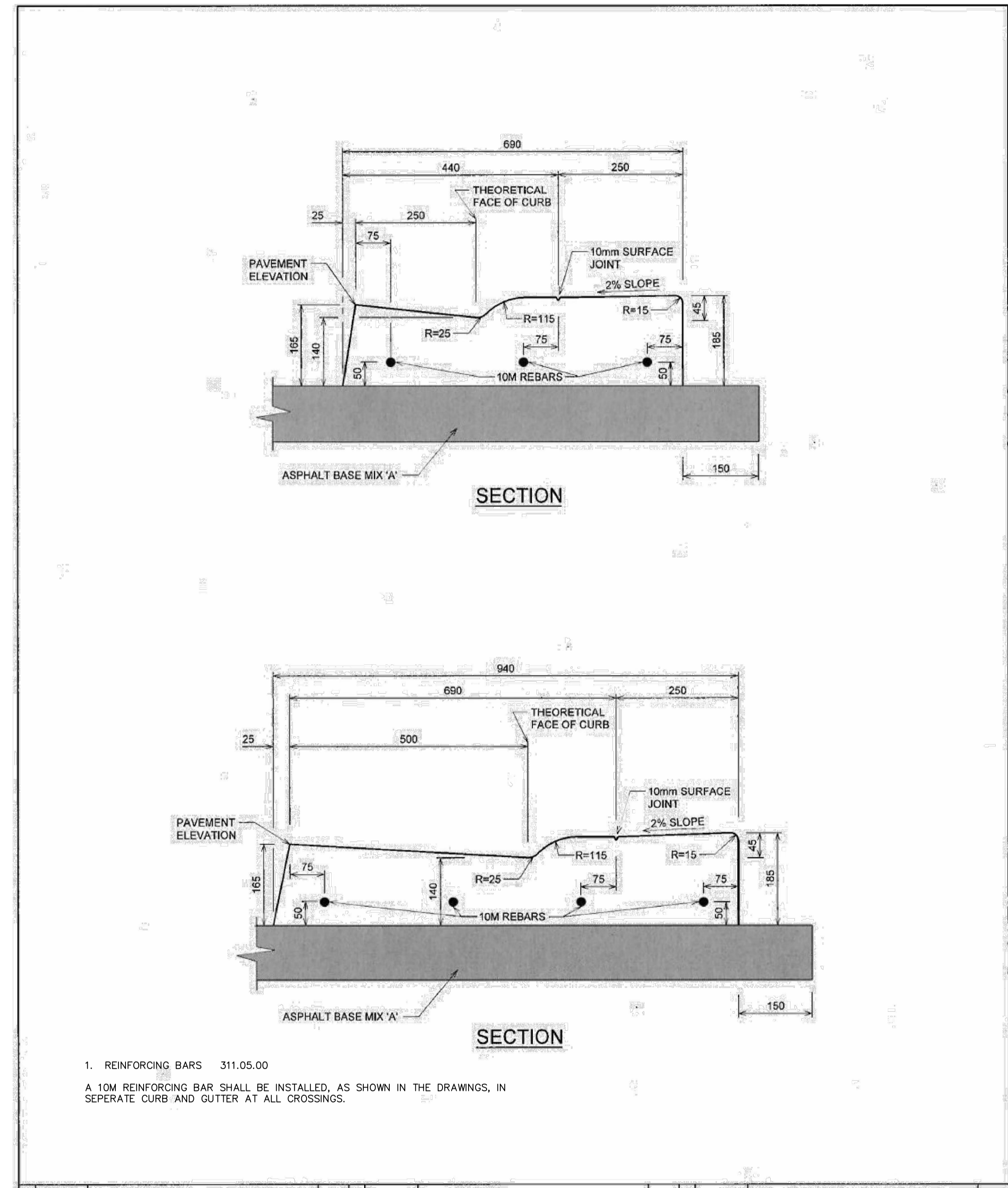
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Town of Canmore
ENGINEERING SERVICES

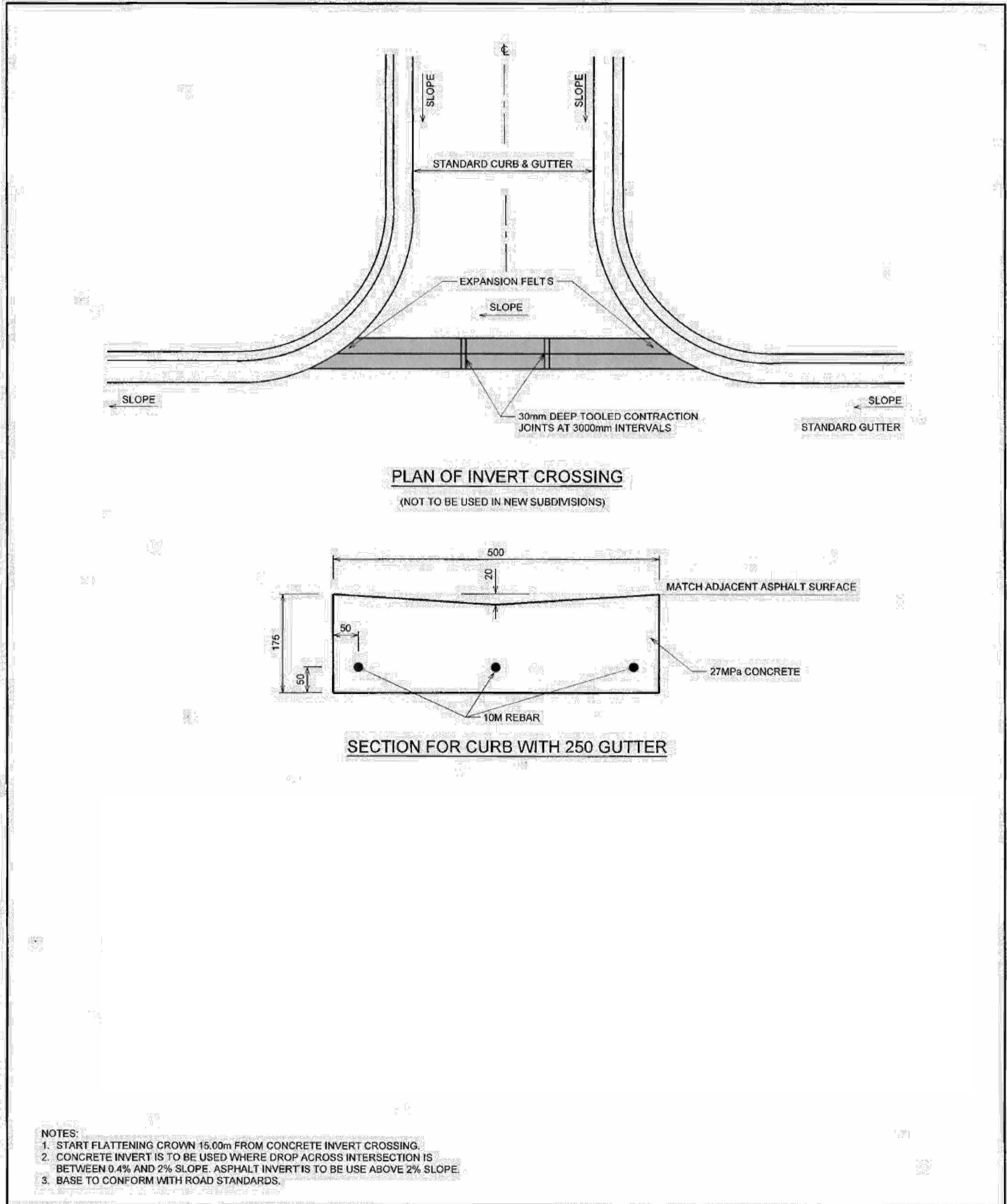
CAP 7302
TYPICAL DETAILS

SHEET NO: C602 TOWN FILE NO: -



1. REINFORCING BARS 311.05.00
 A 10M REINFORCING BAR SHALL BE INSTALLED, AS SHOWN IN THE DRAWINGS, IN SEPERATE CURB AND GUTTER AT ALL CROSSINGS.

PERMIT TO PRACTICE CITY OF CALGARY PROFESSIONAL ENGINEER 2014-10-10 METRIC 454.1003.018	THE CITY OF CALGARY ROADS 250mm & 500mm CURB CROSSING WITH 250mm APRON ON ASPHALT BASE 23 454.1003.018
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- NOTES:
 1. START FLATTENING CROWN 15.00m FROM CONCRETE INVERT CROSSING.
 2. CONCRETE INVERT IS TO BE USED WHERE DROP ACROSS INTERSECTION IS BETWEEN 0.4% AND 2% SLOPE. ASPHALT INVERT IS TO BE USE ABOVE 2% SLOPE.
 3. BASE TO CONFORM WITH ROAD STANDARDS.

PERMIT TO PRACTICE CITY OF CALGARY PROFESSIONAL ENGINEER 2014-12 METRIC 454.1003.003	THE CITY OF CALGARY ROADS CONCRETE INVERT CROSSING (FOR RETROFITS ONLY) 27 454.1003.003
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