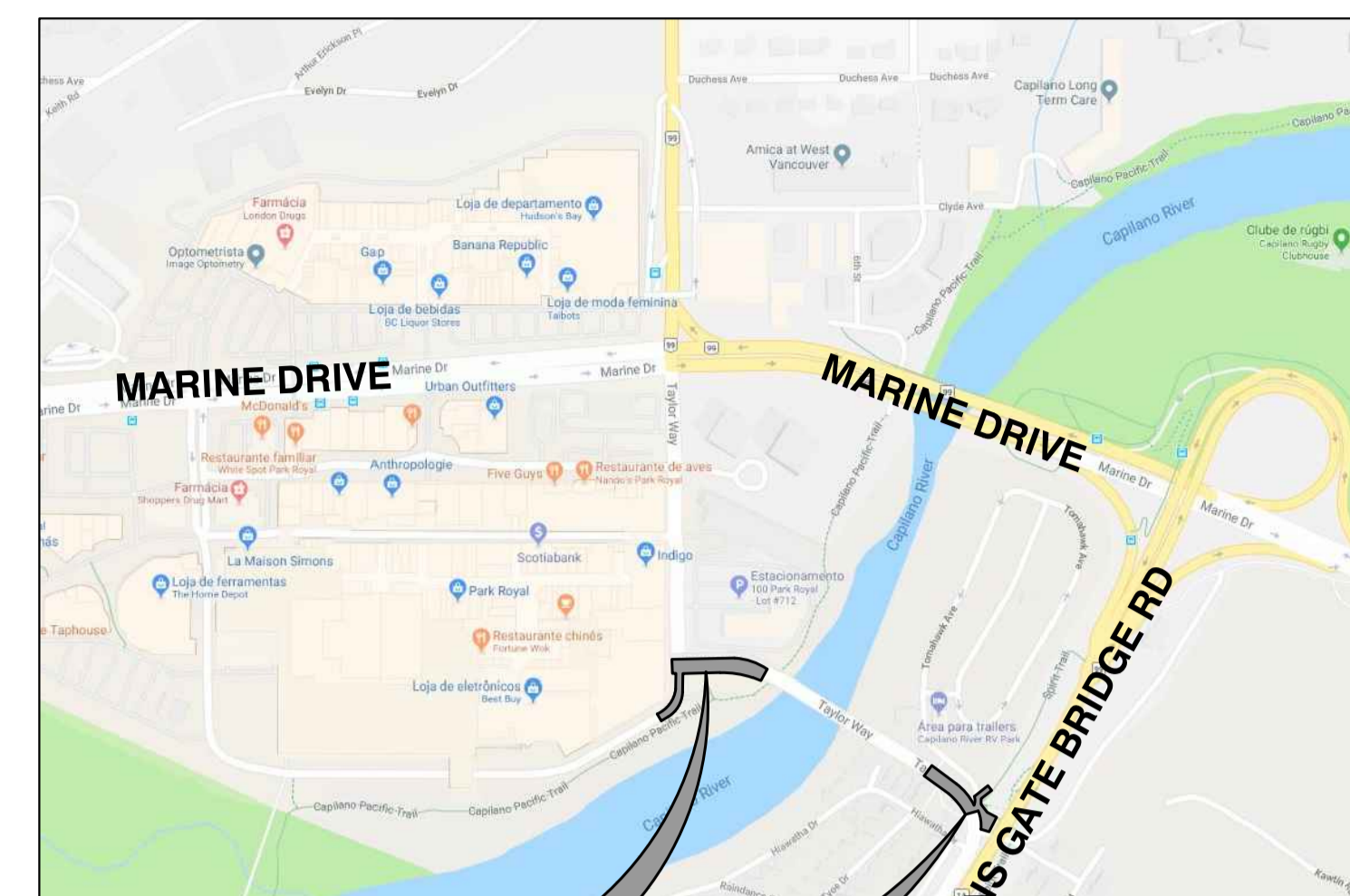




APLIN MARTIN

ENGINEERING ARCHITECTURE PLANNING SURVEYING

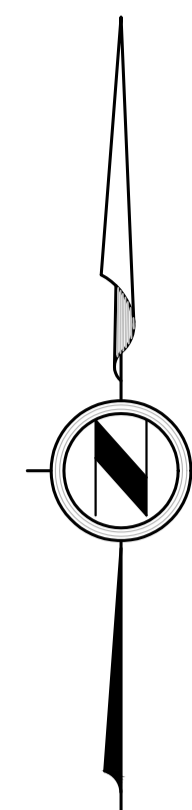
#910 – 1111 West Hastings Street, Vancouver, B.C. V6E 2J3
Tel: (604) 678-9434, Fax: (604) 597-9061, Email: general@aplinmartin.com



SITE

SITE LOCATION PLAN

N.T.S.



OFFSITE DRAWING INDEX

<u>A&M DWG #</u>	<u>SHEET #</u>	<u>DRAWING TITLE</u>
18-5048 - 01	01 OF 04	COVER SHEET
18-5048 - 02	02 OF 04	ROADWORKS & DETAILS (WEST)
18-5048 - 03	03 OF 04	PAVIMENT MARKINGS & SIGNAGE (WEST)
18-5048 - 04	04 OF 04	ROADWORKS & DETAILS (EAST)

**CLIENT: PARK ROYAL SHOPPING
CENTRE HOLDINGS Ltd.**

2002 PARK ROYAL SOUTH - WEST VANCOUVER, BC V7T 2W4

PROJECT:

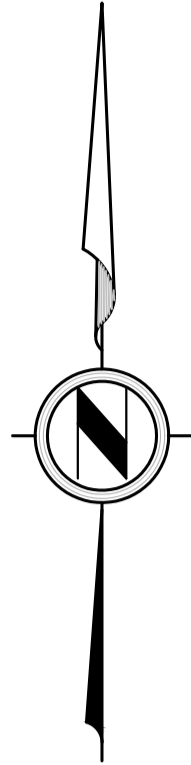
WELCH STREET BRIDGE

EAST / WEST ACCESS IMPROVEMENTS

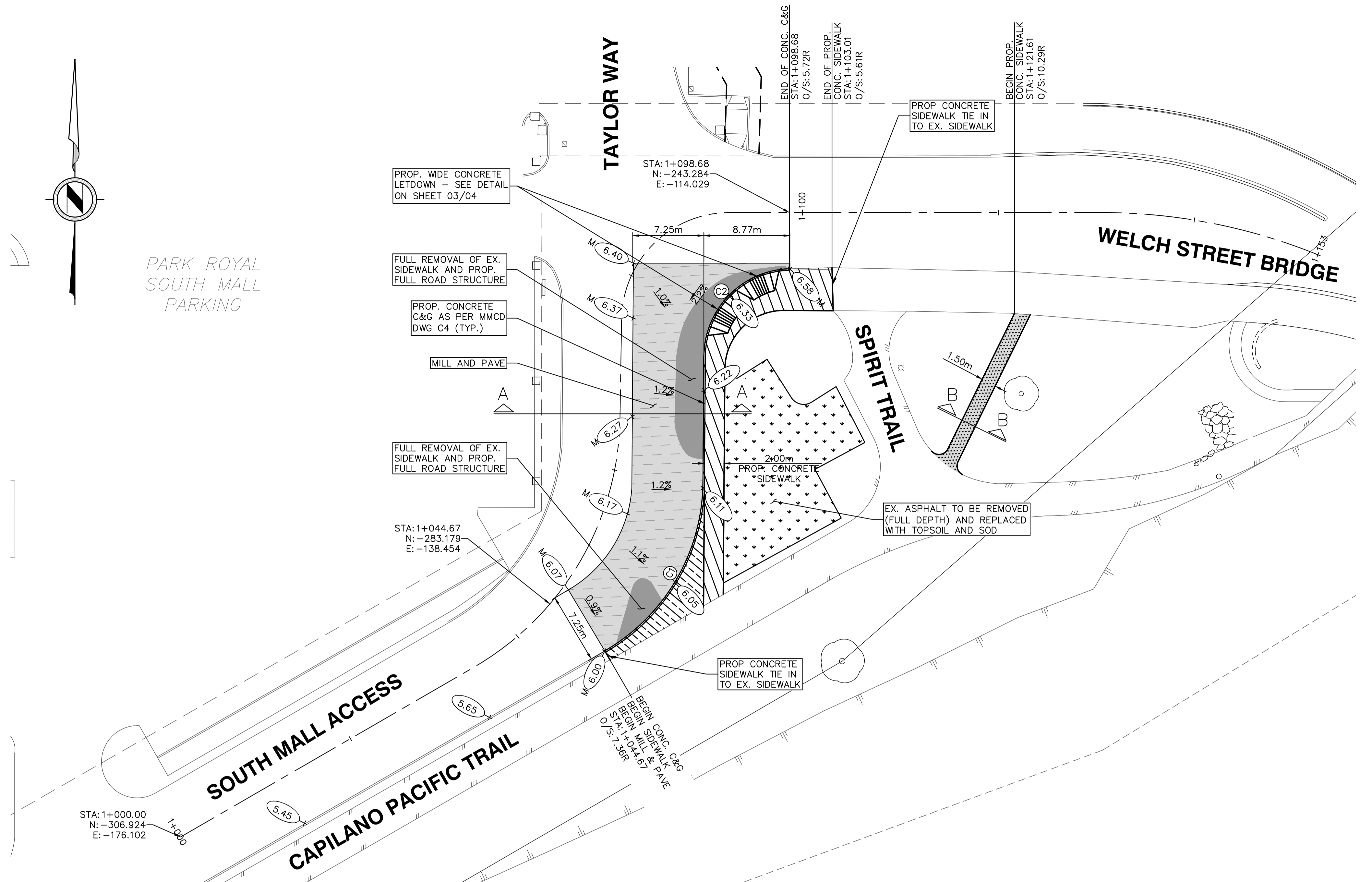
REVISION: 2

ISSUED FOR TENDER

APLIN & MARTIN PROJECT No. 18-5048



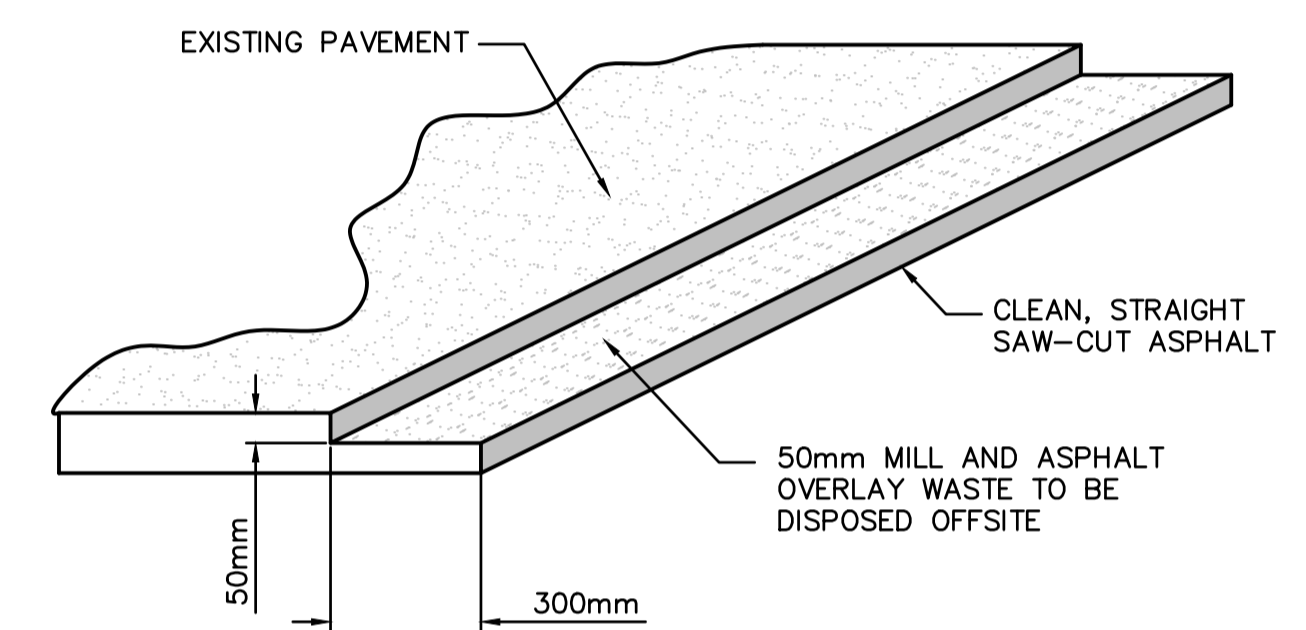
PARK ROYAL SOUTH MALL PARKING



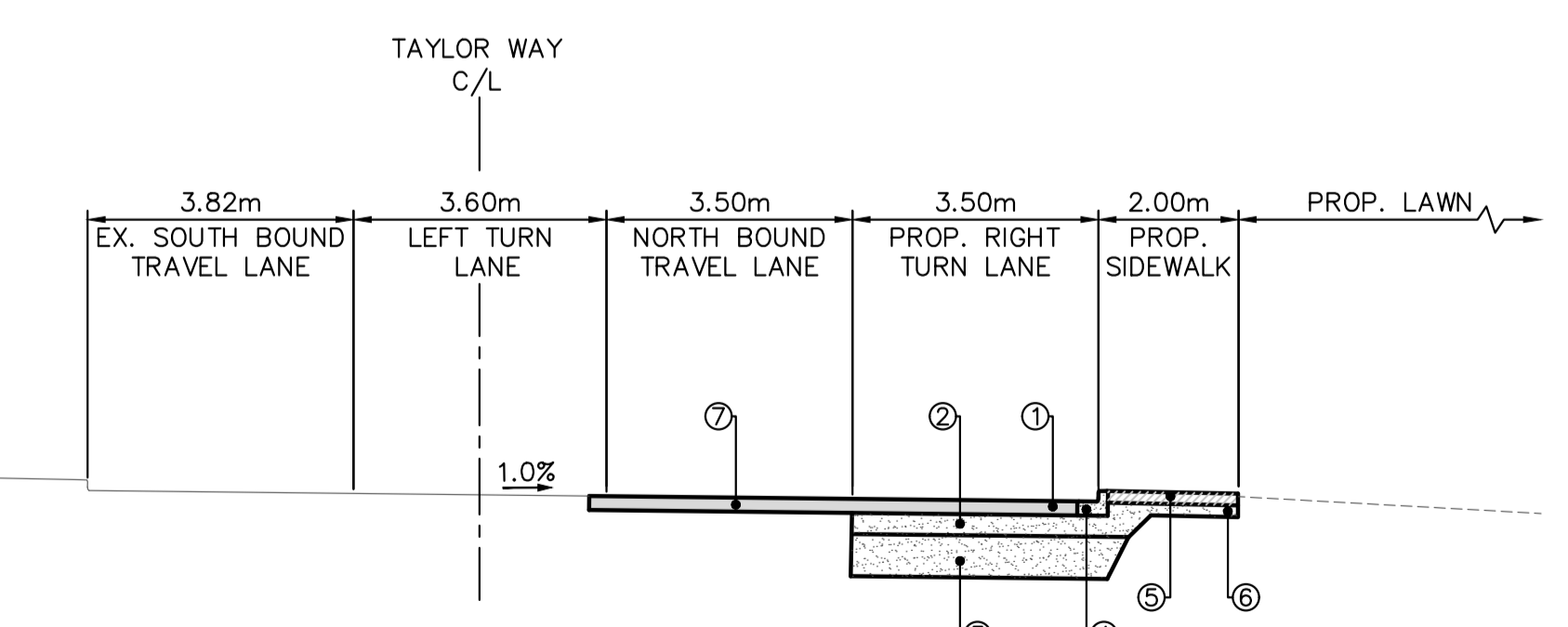
LEGEND

- FULL DEPTH REMOVAL & FULL ROAD STRUCTURE
- MILL AND PAVE
- PROP. ASPHALT SIDEWALK
- PROP. CONCRETE SIDEWALK (WITH BROOM FINISH)
- PROP. CONCRETE SIDEWALK (EXPOSED AGGREGATE)
- PROP. TOP SOIL & SOD
- PROP. GRADE
- MEET EXISTING GRADE

- GENERAL NOTES:**
- ALL WORKS SHALL BE IN ACCORDANCE WITH THE CITY'S ADOPTED VERSION OF MMCD.
 - EX. PAVEMENT TO HAVE FULL DEPTH REMOVAL AND BE REGRADED AND REPLACED TO SUIT PROP. ELEVATIONS.
 - CONTRACTOR TO ADJUST ALL MANHOLES, VALVE BOXES, HYDRO/TELUUS BOXES, IC'S & ANY OTHER EXISTING UTILITY BOXES WITHIN THE LIMITS OF CONSTRUCTION TO SUIT NEW GRADE.
 - TRIM TREES AS REQUIRED. ARBORIST TO BE INVOLVED AS REQUIRED.



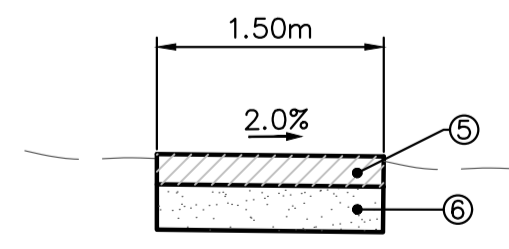
TIE-IN OF NEW PAVEMENT TO EXISTING PAVEMENT
N.T.S.



CROSS SECTION A-A SOUTH MALL ACCESS
1:100 H
1:50 V

CURB RETURN TABLE

SEGMENT	BC STA.	BC O/S	EC STA.	EC O/S	LENGTH	RADIUS	DELTA	TANGENT	CHORD	BC ELEV	EC ELEV
C1	1+044.67	7.36m	1+060.39	9.08m	20.81	20.00	59°37'43"	11.46	19.89	5.77	6.08
C2	1+071.76	8.45m	1+098.68	5.72m	13.81	9.00	87°54'09"	8.68	12.49	6.25	6.58



CROSS SECTION B-B CONCRETE SIDEWALK
1:50 H
1:25 V

FULL ROAD STRUCTURE FOR TAYLOR WAY

- 75mm HOT MIX ASPHALTIC CONCRETE IN TWO LIFTS
- 35mm - 12.5mm UPPER COURSE 1
- 40mm - 19.0mm LOWER COURSE 1
- 150mm - 19mm CRUSHED GRANULAR BASE W/ <5% FINES CONTENT
- 300mm - 75mm CRUSHED GRANULAR SUBBASE WITH <5% FINES CONTENT
- PROP. CONCRETE BARRIER CURB AND GUTTER AS PER MMCD DWG C4 (TYP.)
- 120mm - CONCRETE SIDEWALK c/w MEDIUM BROOM FINISH
- 100mm - GRANULAR BASE COMPACTED TO 95% MODIFIED PROCTOR DENSITY
- 35mm - MILL AND PAVE

NOTICE TO CONTRACTOR
IT IS THE RESPONSIBILITY OF THE CONTRACTOR'S SURVEYOR TO VERIFY THAT ALL LEGAL SURVEY DIMENSIONS SHOWN ON THE ENGINEER'S DRAWINGS AGREE WITH THOSE ON THE REGISTERED LEGAL SURVEY PLAN. SHOULD THERE BE ANY DISCREPANCIES, THEN IMMEDIATELY NOTIFY THE ENGINEER OF RECORD

LEGAL DESCRIPTION

B.M.	MONUMENT NO.	ELEVATION
LOCATED AT	STREET & AVENUE	

REV. NO.	DESCRIPTION	DR	CH	DATE	APP
1	FOR REVIEW/DISCUSSION	CM	DRS	07/24/18	DRS
2	ISSUED FOR TENDER	CM	DRS	07/26/18	DRS

APLIN MARTIN
ENGINEERING ARCHITECTURE PLANNING SURVEYING
#910 - 1111 West Hastings Street, Vancouver, B.C. Canada V6E 2J3
Tel: (604) 678-9434, Fax: (604) 597-9061, Email: general@aplinmartin.com

CLIENT:
PARK ROYAL SHOPPING CENTRE HOLDINGS LTD.
2002 PARK ROYAL SOUTH - WEST VANCOUVER, BC V7T 2W4

PROJECT:
WELCH STREET BRIDGE
EAST / WEST ACCESS

The location of existing underground utilities are shown in an approximate way only & have not been independently verified by the owner or its representative. The contractor shall determine the exact location of all existing utilities before commencing work, and agrees to be fully responsible for any and all damages which might be occasioned by the contractor's failure to exactly locate and preserve any and all underground utilities.

TITLE:
ROADWORKS & DETAILS (WEST)

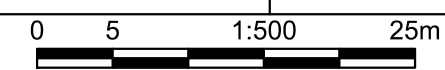
DWV PROJECT No.: -
SCALE: HORZ. 1:500 VERT. N/A
DWV DRAWING No.: -
A&M DRAWING No. 18-5048-02

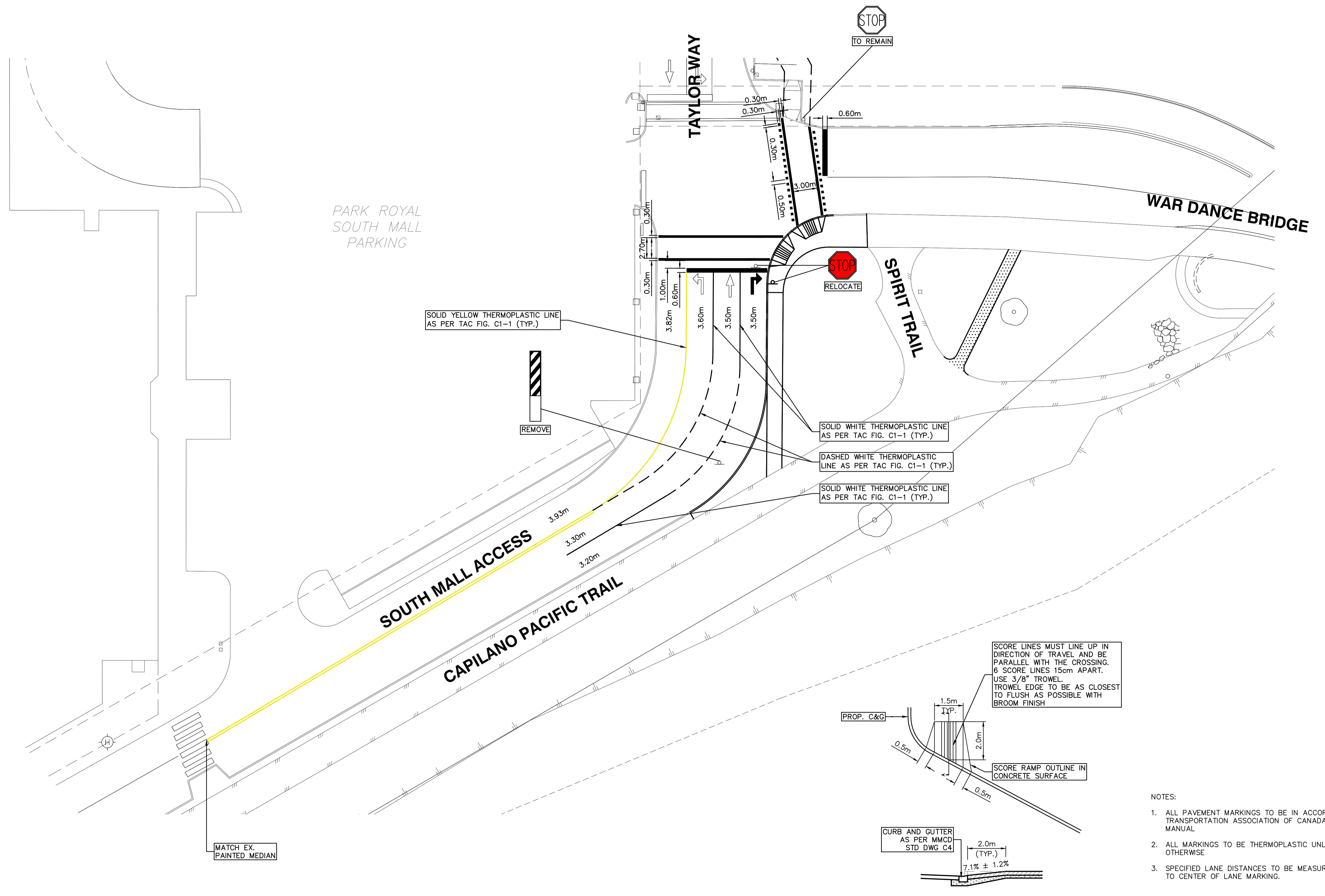
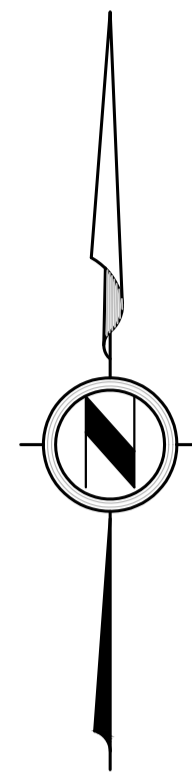
DESIGN: DRS CHECK: DRS
DRAWN: CM APPR: DRS

A & M FILE:
18-5048

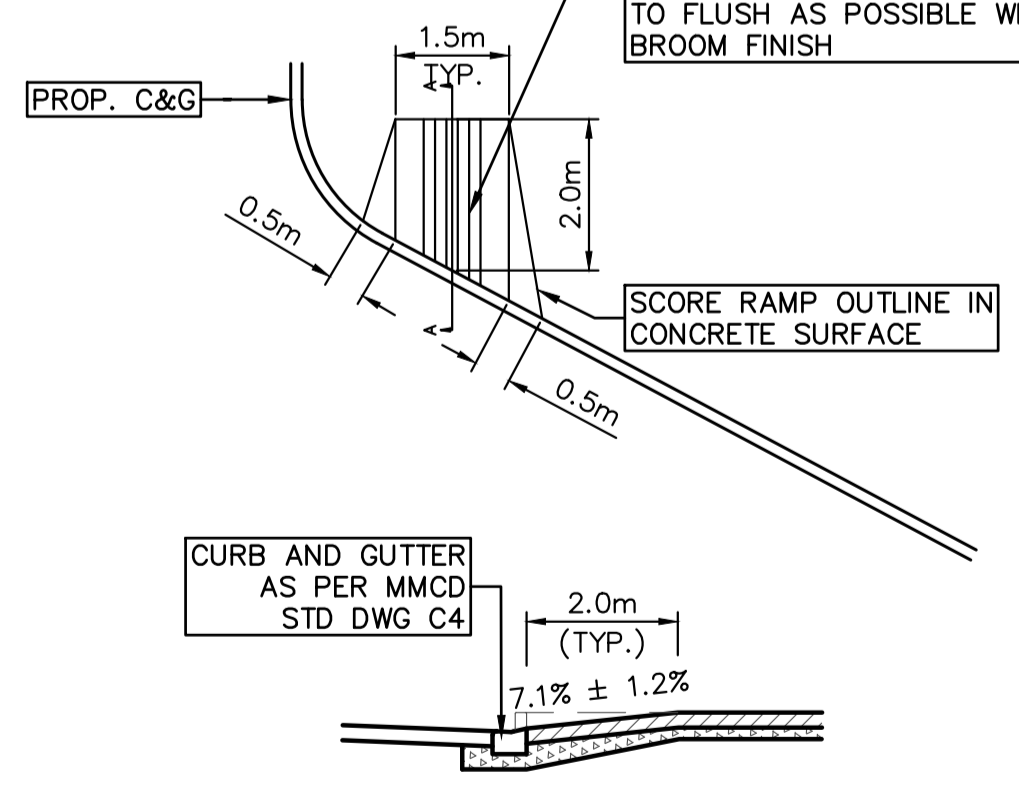
DRAWING DATE:
JULY, 2018

SHEET No. **02 OF 04** REV. **2**





SCORE LINES MUST LINE UP IN DIRECTION OF TRAVEL AND BE PARALLEL WITH THE CROSSING. 6 SCORE LINES 15cm APART. USE 3/8" TROWEL. TROWEL EDGE TO BE AS CLOSEST TO FLUSH AS POSSIBLE WITH BROOM FINISH



DIRECTION LETDOWN DETAIL
[REF: CoV STREET & RESTORATION MANUAL]

N.T.S.

- NOTES:
1. ALL PAVEMENT MARKINGS TO BE IN ACCORDANCE TO TRANSPORTATION ASSOCIATION OF CANADA PAVEMENT MARKING MANUAL
 2. ALL MARKINGS TO BE THERMOPLASTIC UNLESS SPECIFIED OTHERWISE
 3. SPECIFIED LANE DISTANCES TO BE MEASURED FROM FACE OF CURB TO CENTER OF LANE MARKING.

NOTICE TO CONTRACTOR
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LEGAL DESCRIPTION						
B.M.	MONUMENT NO.	ELEVATION				
LOCATED AT	STREET &	AVENUE				
REV. NO.	DESCRIPTION	DR	CH	DATE	APP	
1	FOR REVIEW/DISCUSSION	CM	DRS	07/24/18	DRS	
2	ISSUED FOR TENDER	CM	DRS	07/26/18	DRS	

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CLIENT: **PARK ROYAL SHOPPING CENTRE HOLDINGS LTD.**
2002 PARK ROYAL SOUTH - WEST VANCOUVER, BC V7T 2W4

PROJECT: **WELCH STREET BRIDGE**
EAST / WEST ACCESS

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TITLE: **PAVEMENT MARKINGS & SIGNAGE (WEST)**

DWV PROJECT No.: -
SCALE: HORZ. 1:500
VERT. N/A

DWV DRAWING No.: -
A&M DRAWING No. **18-5048-03**

DESIGN: DRS CHECK: DRS
DRAWN: CM APPR: DRS

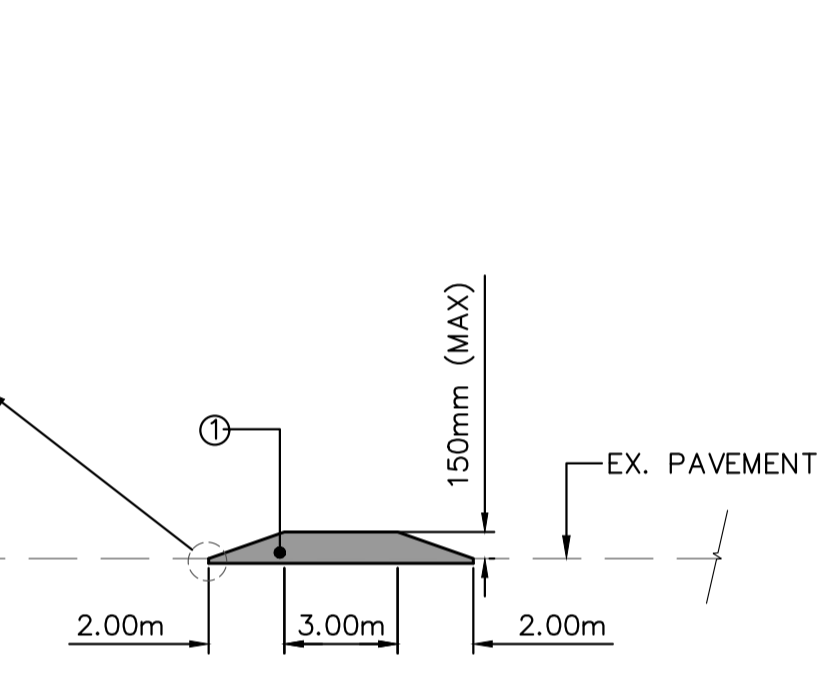
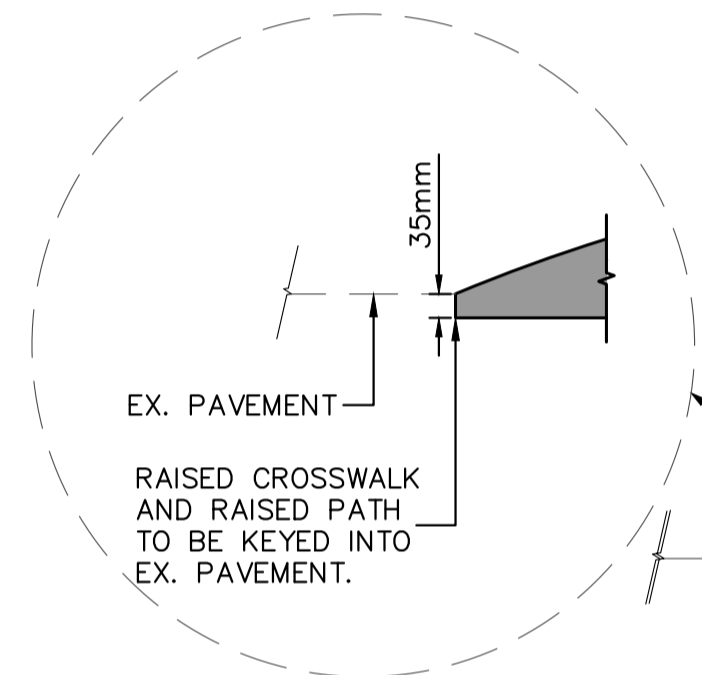
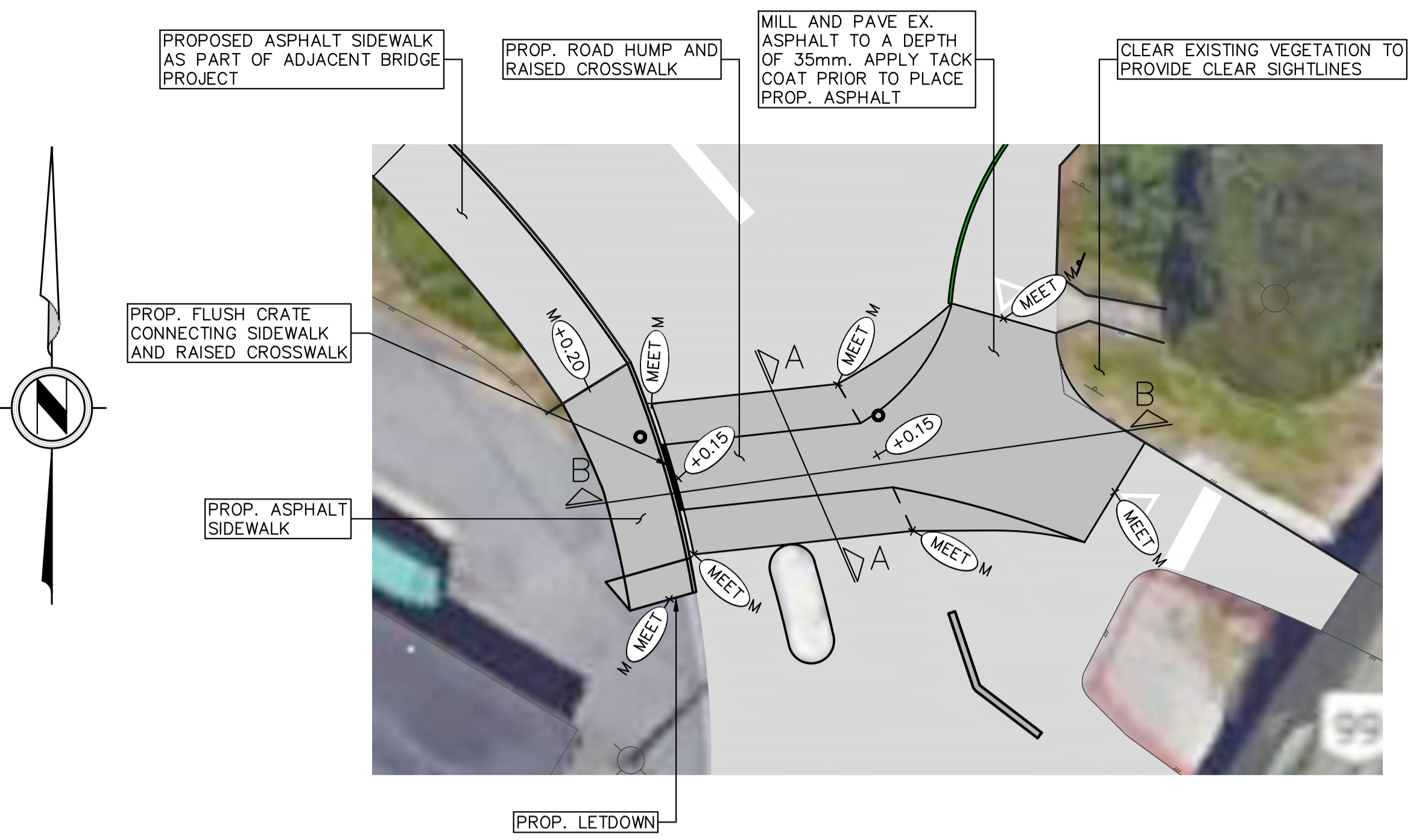
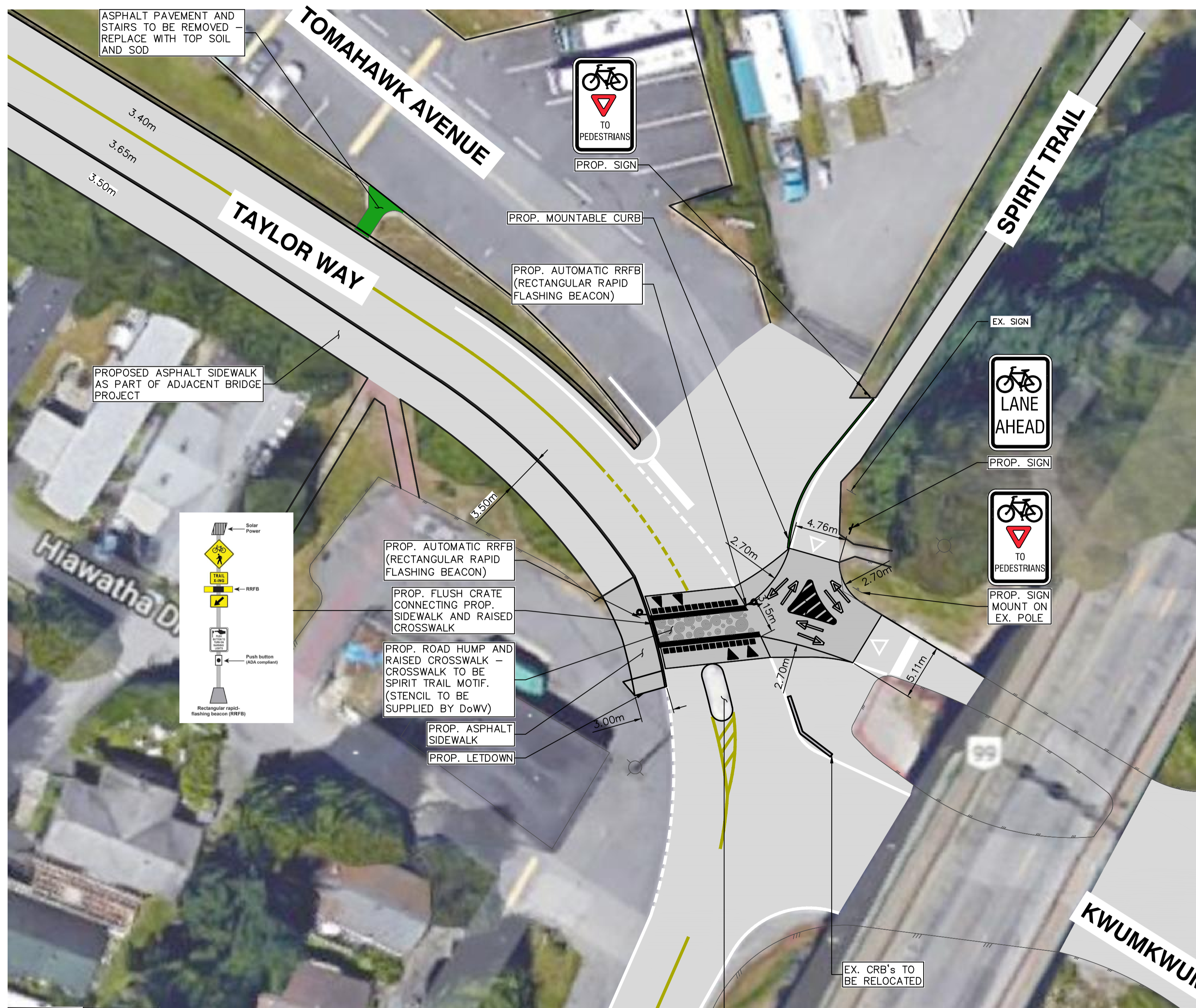
A & M FILE: **18-5048**

DRAWING DATE: **JULY, 2018**

SHEET No. **03 OF 04** REV. **2**

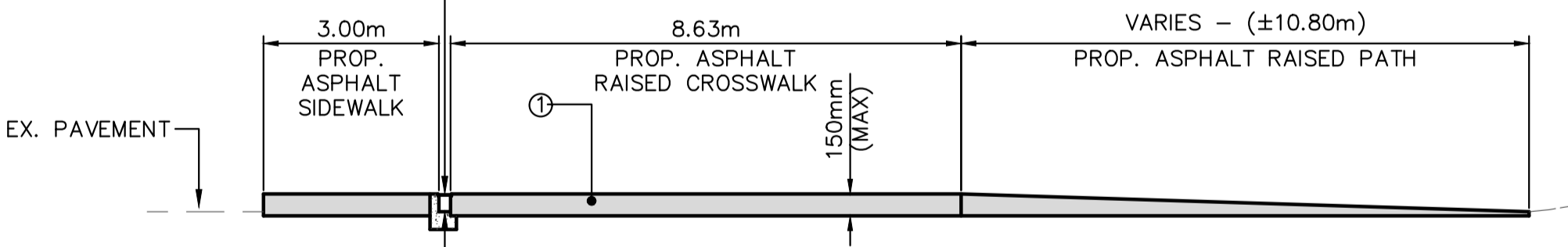
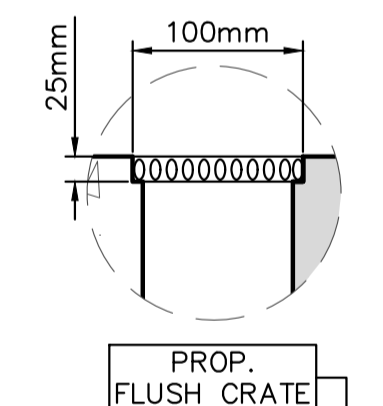
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Jul 25 2018 4:02pm M:\2018\18-5048\03\PAVEMENT MARKINGS & SIGNAGE - 03 - PAVEMENT MARKINGS.dwg/PAVEMENT MARKINGS - 03.dwg



① HOT MIX ASPHALTIC CONCRETE IN SINGLE LIFT -12.5MM - UPPER COURSE #1

SECTION A-A
1:50 H
N.T.S. V



PROP. 0.10m SEPARATION FROM PROP. ASPHALT SIDEWALK AND PROP. ASPHALT RAISED CROSSWALK TO ALLOW WATER FLOWING

SECTION B-B
1:100 H
N.T.S. V

① HOT MIX ASPHALTIC CONCRETE IN SINGLE LIFT -12.5MM - UPPER COURSE #1

LEGEND	
EX. ASPHALT	[Grey box]
PROP. RAISED ASPHALT	[Dark grey box]
PROP. ASPHALT SIDEWALK (PART OF BRIDGE PROJECT)	[Patterned box]
PROP. ASPHALT SIDEWALK	[Patterned box]
PROP. TOP SOIL AND SOD	[Green box]
PROP. CRBs	[Dashed line]
PROP. ROLLOVER CURB	[Solid line]
EX. PAVEMENT MARKINGS	[Dotted line]
PROP. PAVEMENT MARKINGS	[Solid line]

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2	ISSUED FOR TENDER	CM	DRS	07/26/18	DRS	

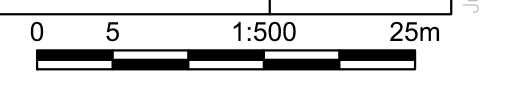
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PROJECT: **WELCH STREET BRIDGE**
EAST / WEST ACCESS

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TITLE: ROADWORKS AND DETAILS (EAST)		DESIGN: DRS	CHECK: DRS
DWV PROJECT No.:	SCALE: HORZ. 1:100 VERT. 1:50	DRAWN: CM	APPR: DRS
DWV DRAWING No.:	A&M DRAWING No. 18-5048-04	A & M FILE: 18-5048	
		DRAWING DATE: JULY, 2018	
		SHEET No. 04 OF 04	REV. 2



Jul 25 2018 4:02pm M:\2018\18-5048\04\07SITE PRODUCTION\18-5048-04 - ROADWORKS.dwg/18-5048-04 - ROADWORKS (EAST) - 04.dwg