APPENDIX H Dixie Area Alternative Solutions Drawings

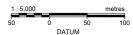
SEE NOTE 1 APPLEWOOD SPA DIXIE/DUNDAS SPA **DUNDAS STREET EAST DUNDAS STREET EAST**

PLAN

REVISION B 2020-08-14 CONCEPTUAL 10% DESIGN AD SB KW A 2020-05-15 ISSUED FOR REVIEW SB KW AD DATE DESCRIPTION BY CHK. DRN.

LEGEND FLOOD PROTECTION LANDFORM — - CREEK CENTRELINE CHANNEL CONVEYANCE **IMPROVEMENTS** FLOODPLAIN CONVEYANCE IMPROVEMENTS SPECIAL POLICY AREA (SPA) LITTLE ETOBICOKE CREEK WATERSHED BOUNDARY TRCA REGULATION LIMIT ---- EASEMENT FLOW DIRECTION

CROSS-SECTION



- CONCEPTUAL DIXIE ROAD BRIDGE REPLACEMENT BY R.V. ANDERSON ASSOCIATES LIMITED (APPENDIX E).
- BASE DIGITAL INFORMATION OBTAINED FROM THE CITY OF MISSISSAUGA (SHP AND DGN FORMAT).
 REGULATORY BOUNDARIES PROVIDED BY THE TRCA.
- KEY MITIGATION CONSTRAINTS ARE MAPPED ON FIGURES 3 TO 5.

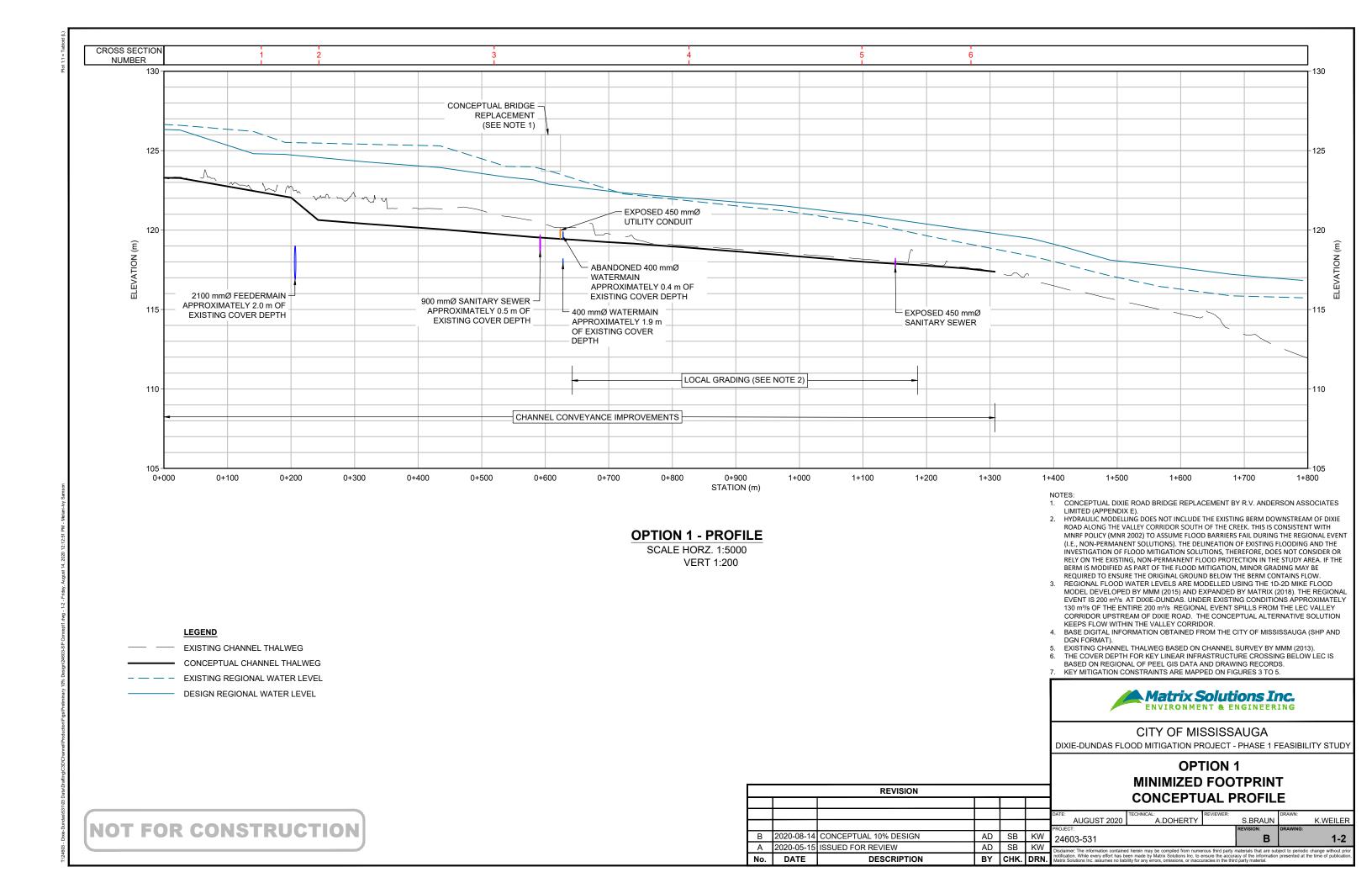


CITY OF MISSISSAUGA

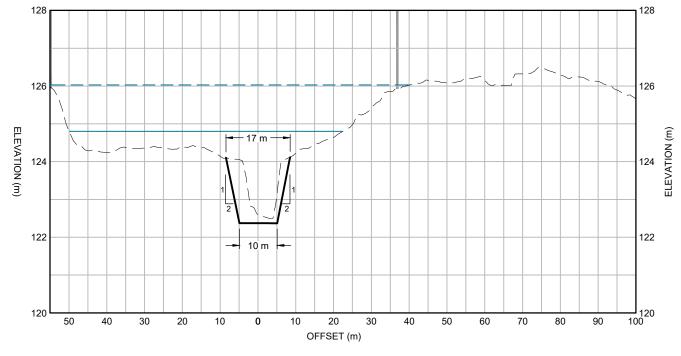
DIXIE-DUNDAS FLOOD MITIGATION PROJECT - PHASE 1 FEASIBILITY STUDY

OPTION 1 MINIMIZED FOOTPRINT **CONCEPTUAL PLAN**

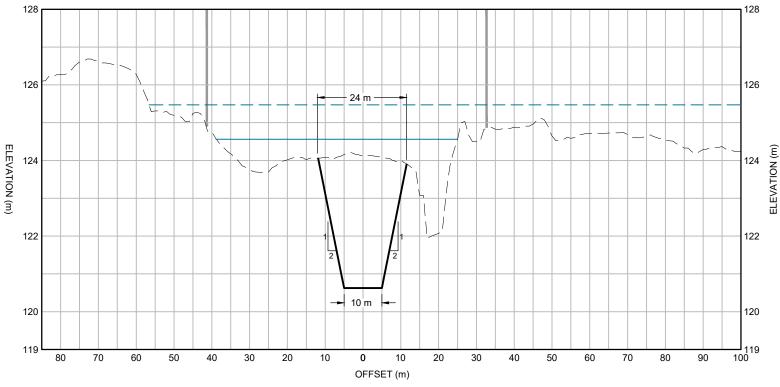
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1-1 HORIZONTAL SCALE 1:1000
VERTICAL SCALE 1:100



2 Section
1-1 HORIZONTAL SCALE 1:1000
VERTICAL SCALE 1:100

NOT FOR CONSTRUCTION

LEGEND

EXISTING GROUND

CHANNEL CONVEYANCE IMPROVEMENTSEXISTING REGIONAL WATER LEVEL

——— DESIGN REGIONAL WATER LEVEL

PROPERTY BOUNDARY

NOTES:

- 1. REGIONAL FLOOD WATER LEVELS ARE MODELLED USING THE 1D-2D MIKE FLOOD MODEL DEVELOPED BY MMM (2015) AND EXPANDED BY MATRIX (2018). THE REGIONAL EVENT IS 200 m³/s AT DIXIE-DUNDAS. UNDER EXISTING CONDITIONS APPROXIMATELY 130 m³/s OF THE ENTIRE 200 m³/s REGIONAL EVENT SPILLS FROM THE LEC VALLEY CORRIDOR. THE CONCEPTUAL ALTERNATIVE SOLUTION KEEPS EI OW WITHIN THE VALLEY CORRIDOR.
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 4. PROPERTY BOUNDARIES BASED ON GIS DATA OBTAINED FROM THE CITY OF MISSISSAUGA.



CITY OF MISSISSAUGA

DIXIE-DUNDAS FLOOD MITIGATION PROJECT - PHASE 1 FEASIBILITY STUDY

OPTION 1 MINIMIZED FOOTPRINT CONCEPTUAL CROSS-SECTIONS

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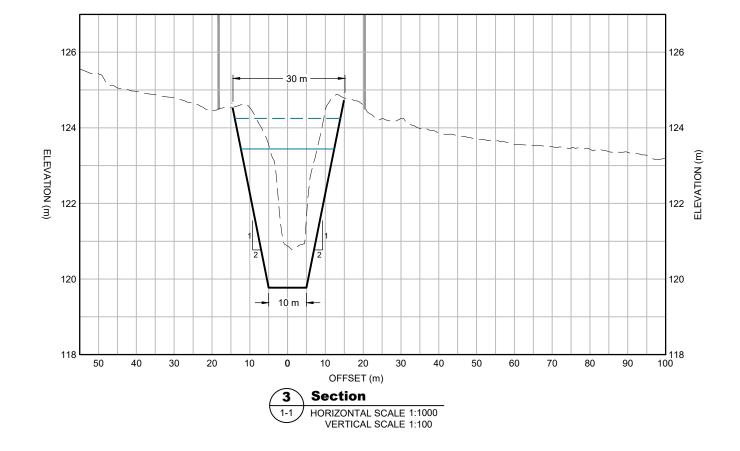
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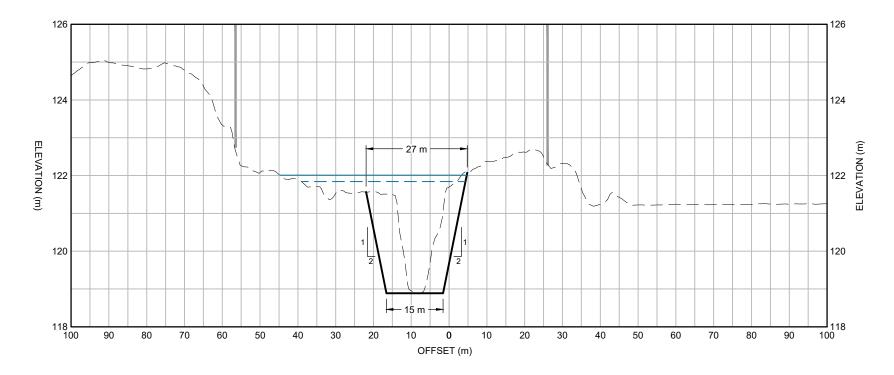
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EXISTING THALWEG

DESIGN THALWEG

- - - EXISTING REGIONAL FLOOD WATER LEVEL

DESIGN REGIONAL FLOOD WATER LEVEL

PROPERTY BOUNDARY

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CITY OF MISSISSAUGA

DIXIE-DUNDAS FLOOD MITIGATION PROJECT - PHASE 1 FEASIBILITY STUDY

OPTION 1
MINIMIZED FOOTPRINT
CONCEPTUAL CROSS-SECTIONS

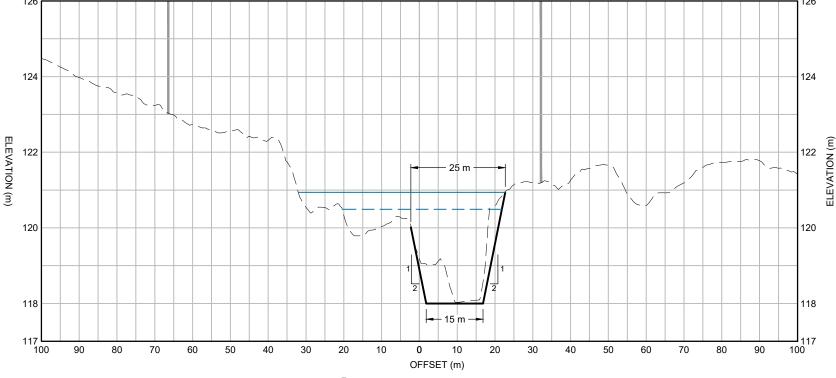
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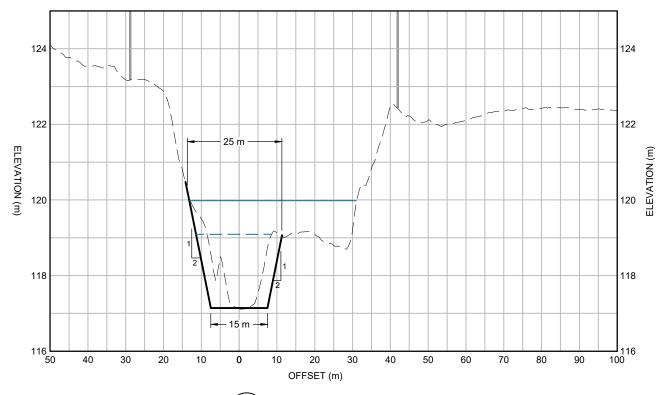
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5 Section HORIZONTAL SCALE 1:1000



VERTICAL SCALE 1:100

6 Section

HORIZONTAL SCALE 1:1000 VERTICAL SCALE 1:100

REVISION B 2020-08-14 CONCEPTUAL 10% DESIGN AD SB KW A 2020-05-15 ISSUED FOR REVIEW AD SB KW DATE DESCRIPTION BY CHK. DRN. **LEGEND**

EXISTING THALWEG

DESIGN THALWEG

DESIGN REGIONAL FLOOD WATER LEVEL

EXISTING REGIONAL FLOOD WATER LEVEL

PROPERTY BOUNDARY

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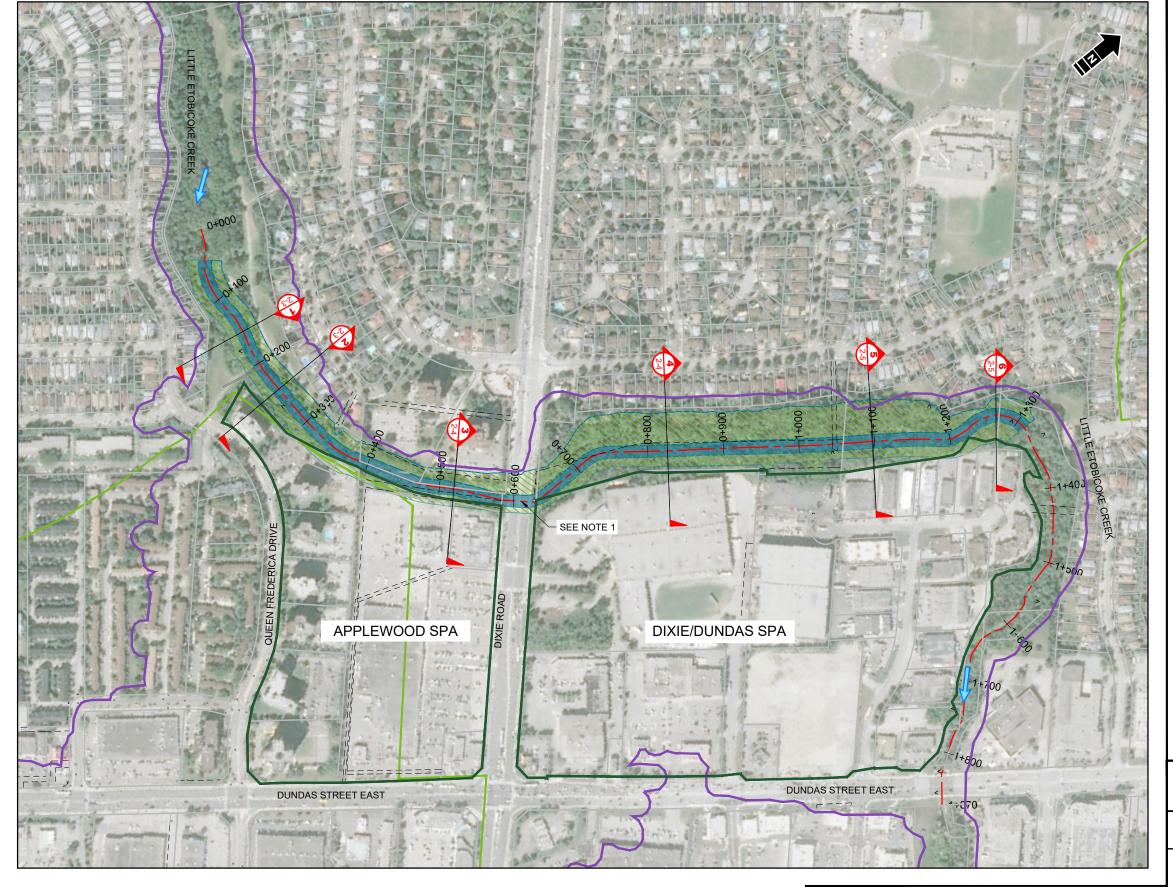


CITY OF MISSISSAUGA

DIXIE-DUNDAS FLOOD MITIGATION PROJECT - PHASE 1 FEASIBILITY STUDY

OPTION 1 MINIMIZED FOOTPRINT **CONCEPTUAL CROSS-SECTIONS**

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PLAN

LEGEND

FLOOD PROTECTION LANDFORM

— - CREEK CENTRELINE

CHANNEL CONVEYANCE **IMPROVEMENTS**

> FLOODPLAIN CONVEYANCE **IMPROVEMENTS**

SPECIAL POLICY AREA (SPA)

LITTLE ETOBICOKE CREEK WATERSHED BOUNDARY

TRCA REGULATION LIMIT

--- EASEMENT

> FLOW DIRECTION CROSS-SECTION

- CONCEPTUAL DIXIE ROAD BRIDGE REPLACEMENT BY R.V. ANDERSON ASSOCIATES LIMITED (APPENDIX E).
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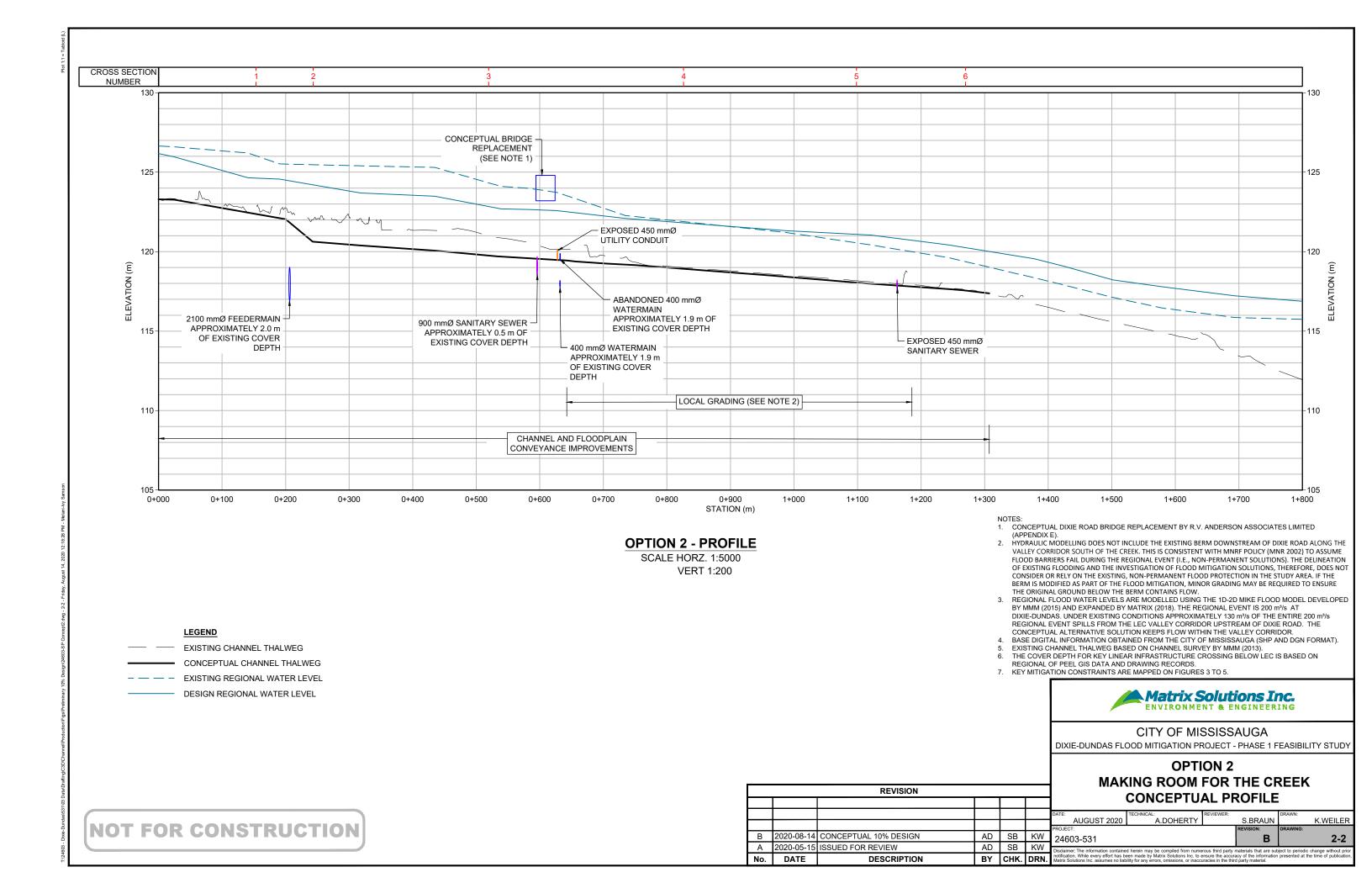
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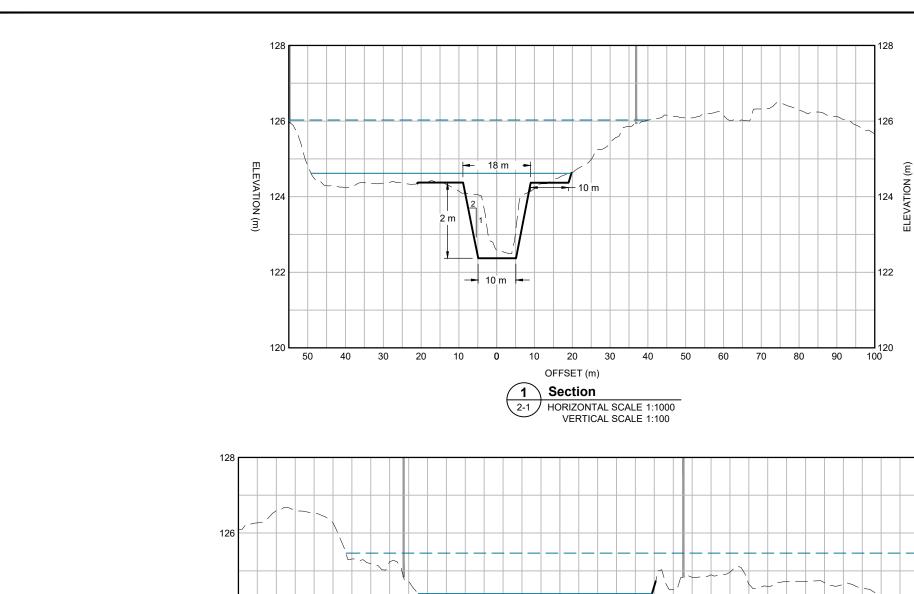
DIXIE-DUNDAS FLOOD MITIGATION PROJECT - PHASE 1 FEASIBILITY STUDY

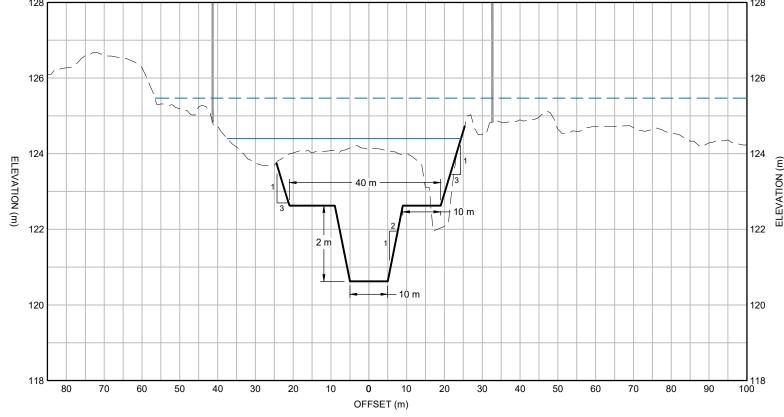
OPTION 2 MAKING ROOM FOR THE CREEK **CONCEPTUAL PLAN**

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2-1 Section
2-1 HORIZONTAL SCALE 1:1000
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LEGEND

EXISTING GROUND

IMPROVEMENTS

PROPERTY BOUNDARY

CHANNEL AND FLOODPLAIN CONVEYANCE

EXISTING REGIONAL WATER LEVEL

DESIGN REGIONAL WATER LEVEL

- ALTERNATIVE SOLUTION KEEPS FLOW WITHIN THE VALLEY CORRIDOR.
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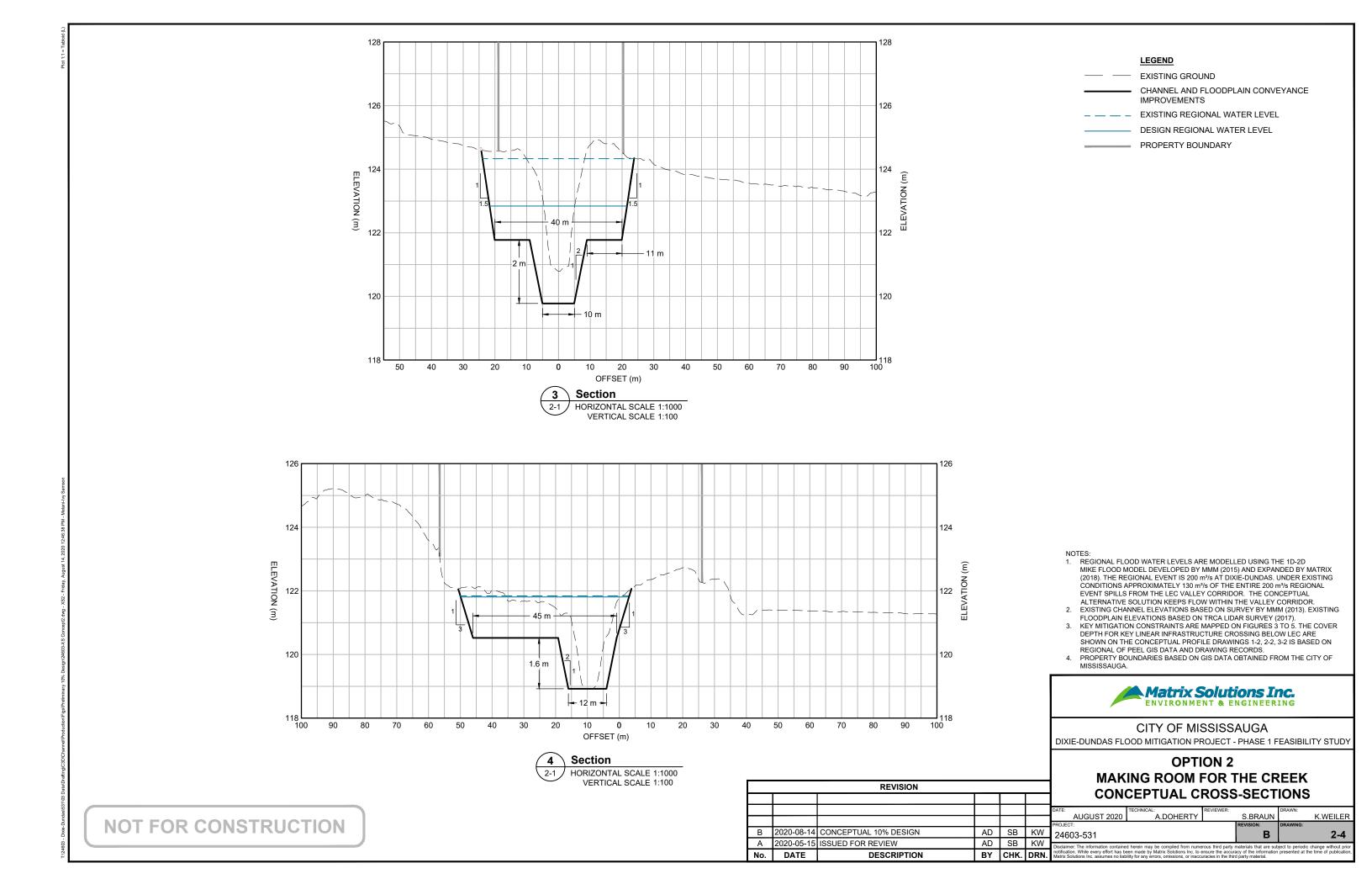
CITY OF MISSISSAUGA

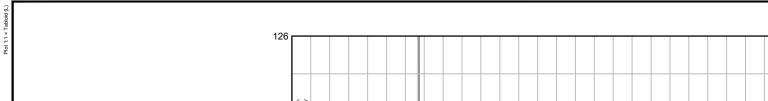
DIXIE-DUNDAS FLOOD MITIGATION PROJECT - PHASE 1 FEASIBILITY STUDY

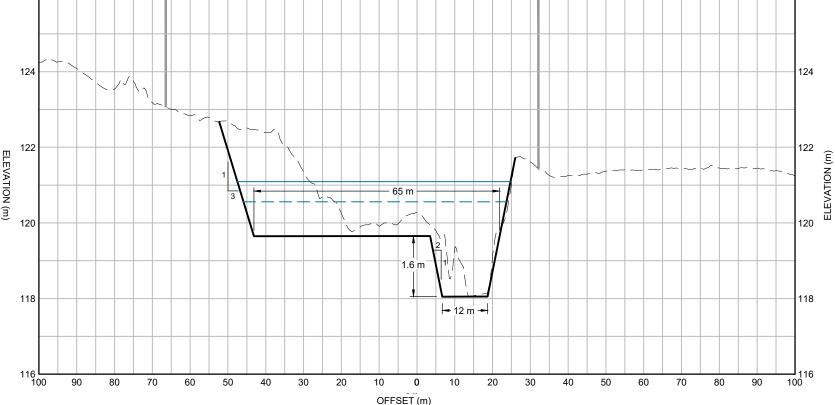
OPTION 2 MAKING ROOM FOR THE CREEK CONCEPTUAL CROSS-SECTIONS

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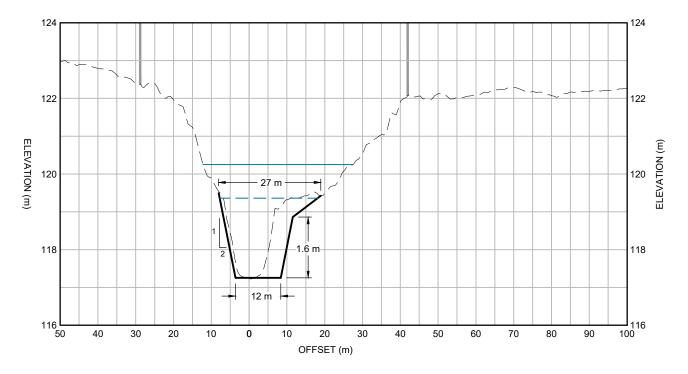
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Section HORIZONTAL SCALE 1:1000 VERTICAL SCALE 1:100



Section

HORIZONTAL SCALE 1:1000 VERTICAL SCALE 1:100

REVISION B 2020-08-14 CONCEPTUAL 10% DESIGN AD SB KW A 2020-05-15 ISSUED FOR REVIEW AD SB KW DATE DESCRIPTION BY CHK. DRN. **LEGEND**

EXISTING GROUND

CHANNEL AND FLOODPLAIN CONVEYANCE **IMPROVEMENTS**

DESIGN REGIONAL WATER LEVEL

EXISTING REGIONAL WATER LEVEL

PROPERTY BOUNDARY

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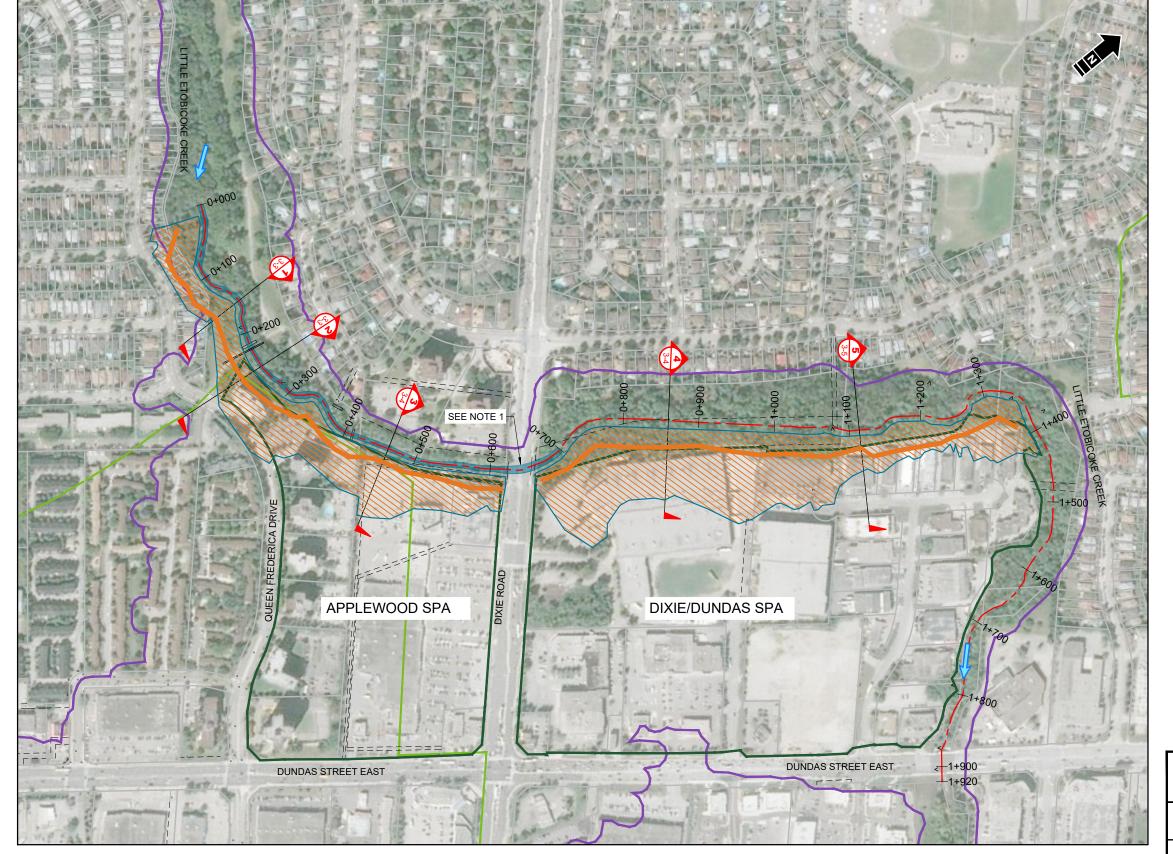
CITY OF MISSISSAUGA

DIXIE-DUNDAS FLOOD MITIGATION PROJECT - PHASE 1 FEASIBILITY STUDY

OPTION 2 MAKING ROOM FOR THE CREEK **CONCEPTUAL CROSS-SECTIONS**

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LEGEND

FLOOD PROTECTION LANDFORM

--- CREEK CENTRELINE

CHANNEL CONVEYANCE IMPROVEMENTS

FLOODPLAIN CONVEYANCE IMPROVEMENTS

LITTLE ETOBICOKE CREEK WATERSHED BOUNDARY

TRCA REGULATION LIMIT

SPECIAL POLICY AREA (SPA)

---- EASEMENT

FLOW DIRECTION

CROSS-SECTION

1:5,000 metres 50 0 50 10 DATUM

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CITY OF MISSISSAUGA

DIXIE-DUNDAS FLOOD MITIGATION PROJECT - PHASE 1 FEASIBILITY STUDY

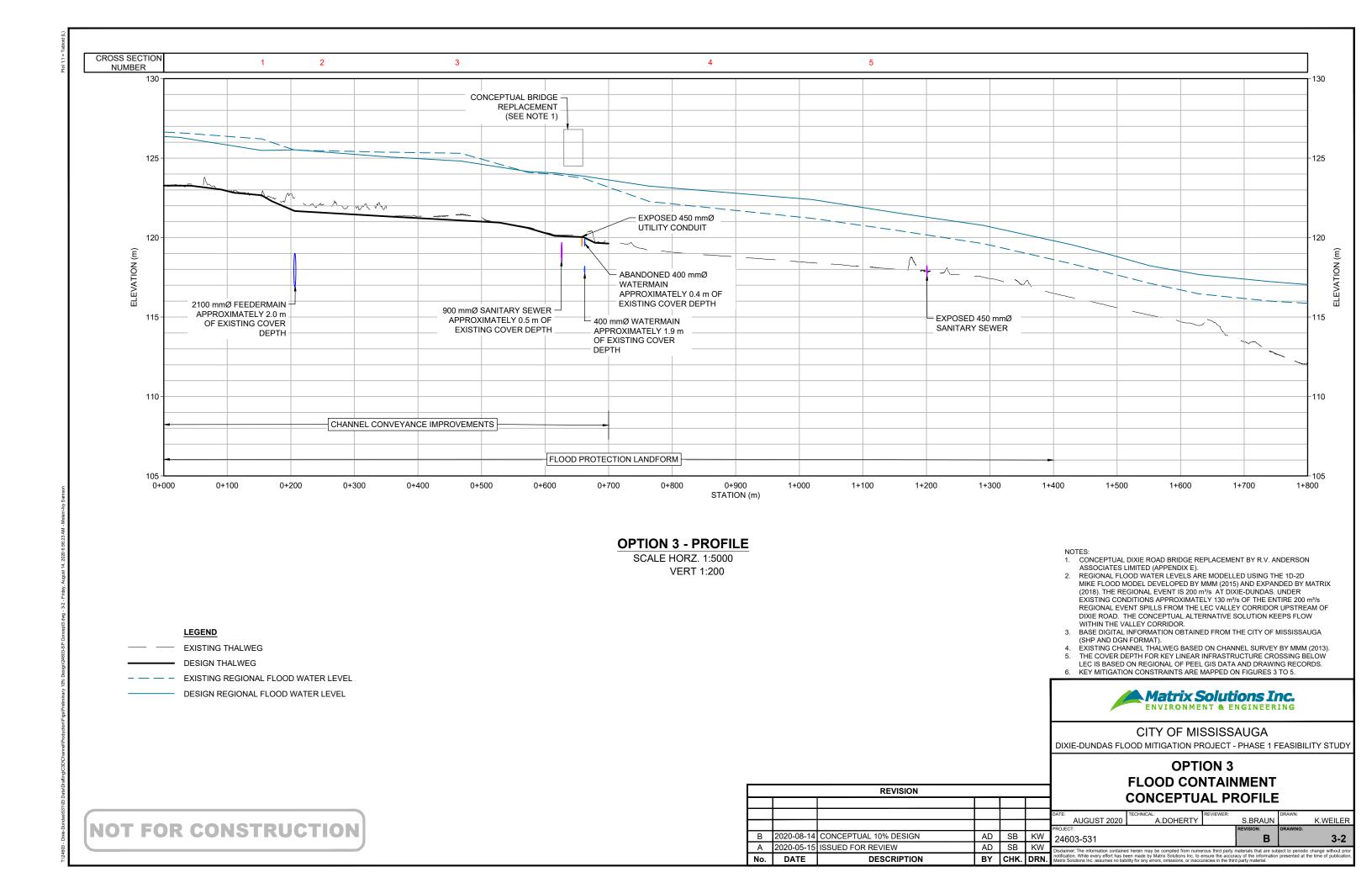
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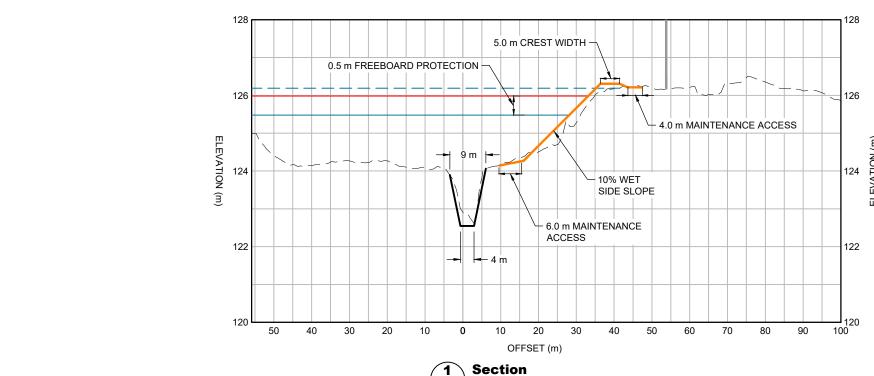
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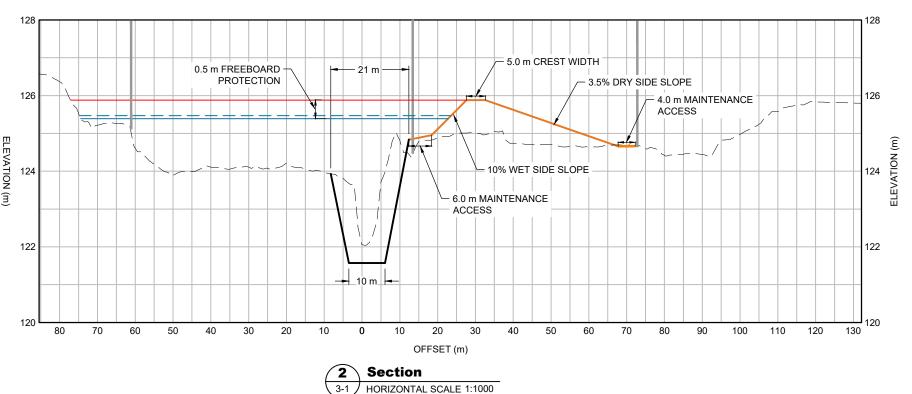
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LEGEND

EXISTING GROUND

PROPERTY BOUNDARY

CHANNEL CONVEYANCE IMPROVEMENTS EXISTING REGIONAL WATER LEVEL

DESIGN REGIONAL WATER LEVEL

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CITY OF MISSISSAUGA

DIXIE-DUNDAS FLOOD MITIGATION PROJECT - PHASE 1 FEASIBILITY STUDY

OPTION 3 FLOOD CONTAINMENT CONCEPTUAL CROSS-SECTIONS

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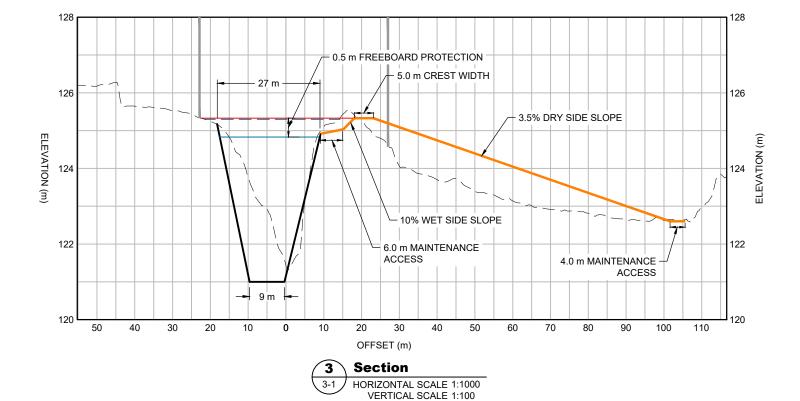
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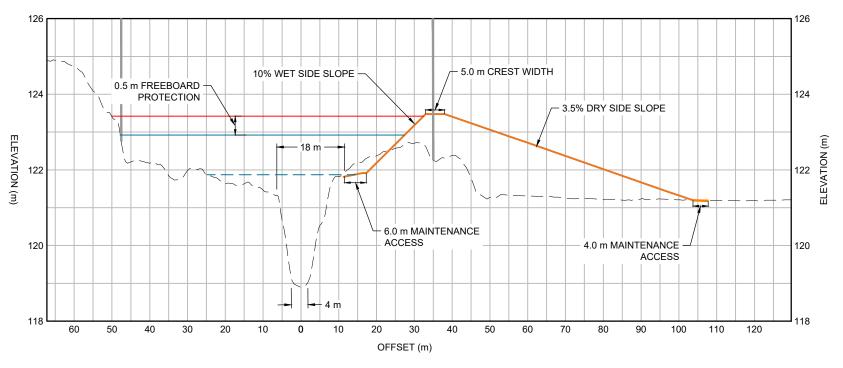
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3-1 HORIZONTAL SCALE 1:1000
VERTICAL SCALE 1:100

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LEGEND

EXISTING THALWEG

DESIGN THALWEG

EXISTING REGIONAL FLOOD WATER LEVEL

DESIGN REGIONAL FLOOD WATER LEVEL

PROPERTY BOUNDARY

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CITY OF MISSISSAUGA

DIXIE-DUNDAS FLOOD MITIGATION PROJECT - PHASE 1 FEASIBILITY STUDY

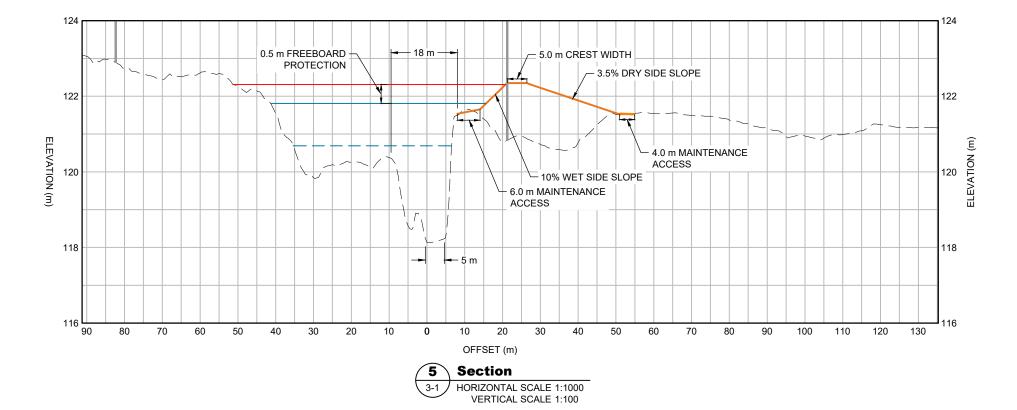
OPTION 3 FLOOD CONTAINMENT CONCEPTUAL CROSS-SECTIONS

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LEGEND EXISTING G

EXISTING GROUND
 CHANNEL CONVEYANCE IMPROVEMENTS
 EXISTING REGIONAL WATER LEVEL
 DESIGN REGIONAL WATER LEVEL

PROPERTY BOUNDARY

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- EXISTING CHANNEL ELEVATIONS BASED ON SURVEY BY MMM (2013). EXISTING FLOODPLAIN ELEVATIONS BASED ON TRCA LIDAR SURVEY (2017).
- 3. KEY MITIGATION CONSTRAINTS ARE MAPPED ON FIGURES 3 TO 5. THE COVER DEPTH FOR KEY LINEAR INFRASTRUCTURE CROSSING BELOW LEC ARE SHOWN ON THE CONCEPTUAL PROFILE DRAWINGS 1-2, 2-2, 3-2 IS BASED ON REGIONAL OF PEEL GIS DATA AND DRAWING RECORDS.
- REGIONAL OF PEEL GIS DATA AND DRAWING RECORDS.

 4. PROPERTY BOUNDARIES BASED ON GIS DATA OBTAINED FROM THE CITY OF MISSISSAUGA.



CITY OF MISSISSAUGA

DIXIE-DUNDAS FLOOD MITIGATION PROJECT - PHASE 1 FEASIBILITY STUDY

OPTION 3 FLOOD CONTAINMENT CONCEPTUAL CROSS-SECTIONS

DATE:	TECHNICAL:	REVIEWER:		DRAWN:	
AUGUST 202	A.DOHERTY		S.BRAUN		K.WEILER
PROJECT:			REVISION:	DRAWING:	
24603-531			В		3-5

NOT FOR CONSTRUCTION

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