

Utility Cut Handbook

April 6, 2020



City of
Prince Albert

1.0 GENERAL

1.1 Description

- .1 This section specifies the requirements for an External Corporation or Contractor (hereafter called “Company”) to conduct a cut in City of Prince Albert surface infrastructure for the purpose of installing, maintaining or exposing a shallow buried utility, and the requirements to restore the surface infrastructure there after (hereafter called the “Work”).

1.2 Request to Cut City Surface Infrastructure

- .1 Seventy-two (72) hours prior to cuts being made in the City of Prince Albert Right of Way, 00-04-20 “Contractor Utility Locate/Cut Request” Form must be submitted either by email or by City Website at:

publicworks@citypa.com or

<https://forms.citypa.ca/Public-Works/Contractor-Utility-Locate-or-Cut-Request>

- .2 Information that is required includes, but limited to:

- .1 City Locate Request
- .2 Traffic Closure Request
- .3 Construction Drawing Permit Number
- .4 Requested Start Date
- .5 Locations of Requested Utility Cuts
- .6 Surface Type and Cut Surface Area
- .7 Contact Information of the Owner of the Utility or Infrastructure
- .8 Contact Information of the Contractor Conducting the Work

1.3 Restoration Completion Notice

- .1 Companies are required to give notice to the City of Prince Albert upon completing the restoration of a cut. Notices will be given as per 00-04-20 “Contractor Utility/Cut Request” form, submitted at:

publicworks@citypa.com or

<https://forms.citypa.ca/Public-Works/Contractor-Utility-Locate-or-Cut-Request>

SHALLOW BURIED UTILITIES

- .2 Information that is required includes, but limited to:
 - .1 Actual Start Date of the Cut
 - .2 Restoration Completion Date
 - .3 Mark-up Drawing of the Utility Cuts Repaired

1.4 City Inspection

- .1 Upon notice of restoration completion from the Company, the City of Prince Albert will inspect the utility cut restoration for compliance with section 6100, and will either:
 - .1 Provide receipt of the City's acceptance of the restoration, or
 - .2 Provide the Company with a deficiency list that are required to be repaired prior to acceptance.

1.5 Cost for Work Performed by City Forces

- .1 Traffic Devices and Barricading

If the Company requires lane closure or traffic accommodation, indicate the request for services on the "Contractor Utility Locate/Cut Request" Form. The City may provide a cost estimate to complete the work if able.
- .2 Encroachment Permit

If the Company will be encroaching within the legal right of way an Encroachment Permit must be applied for. Permits forms can be found at:

<https://forms.citypa.ca/Public-Works/Contractor-Utility-Locate-or-Cut-Request>

or by contacting Public Works (contact 306-953-4900).
- .3 Restoration

The Company may request that City complete the restoration work. The City may elect to restore the work at its sole discretion. The cost to Company for the city to complete the work will be at the City's charge out rates plus 15%.

1.6 Work Performed by the Company

- .1 All costs to complete the Work and remediate the infrastructure is solely the responsibility of the Company unless otherwise explicitly stated.
- .2 The Company is solely responsible and liable for the site used for purpose of completing the Work including, but limited to:

SHALLOW BURIED UTILITIES

- .1 Any interim maintenance of utility cuts.
- .2 Any interim maintenance of the restorations not yet accepted by the City.
- .3 Any conflicts or claims from the general public arising from the Work.
- .4 Damages to City or Private Infrastructure.

1.7 Failure to Complete the Work

- .1 Should the Company fail to maintain the Work as defined in section 1.6, the City may elect to restore the site at the cost of the Company, charging at the City's charge out rates plus 15%.

1.8 Warranty

- .1 Once a Company receives restoration acceptance as per 1.5.3, the Company's responsibility under 1.6 is ceded. Any Damages to City Infrastructure will remain the responsibility of the Company to repair.
- .2 Subject to 1.8.1, the company will warrant latent defects for 1 year that result from the Work including:
 - .1 Premature failure of the restoration that have been determined to not comply with 2.0.
 - .2 Claims from the public or private that result from the Work.

1.9 Asphalt Degradation Fees

- .1 For utility cuts performed in asphalt roads and pathways, the Company will pay an asphalt degradation fee to City based on the area of each utility cut, the age of the asphalt pavement and classification of the roadway, as calculated as follows:

Asphalt Degradation Fees = [Area] x [Road Designation Charge + Asphalt Surface Age Charge]

Area [m2] = (cut width + 2) [m] x (cut length + 2) [m]

Road Designation	Cut Charge
Arterial	\$ 50 per m2
Collector	\$ 45 per m2
Local/Lane/Path	\$ 40 per m2

Asphalt Surface Age	Cut Charge
Less than 5 years	\$ 50 per m2
5 to 10 years	\$ 25 per m2
10 years and older	\$ 0 per m2

SHALLOW BURIED UTILITIES

- .2 Asphalt Area will be determined by the City upon receiving notice of restoration completion from the Company and completing the inspection.
- .3 Road Age will be determined based on the last surface treatment to the section of roadway as determined by the City.

2.0 EXECUTION

- .1 Specifications for Summer Work Conditions will be followed by the Company between and including April 15 to November 15.
- .2 Specifications for Winter Work Conditions will be followed by the Company outside of Summer Work Conditions.
- .3 The City may extend or alter the dates of when Summer/Winter Work can be performed based on the weather.
- .4 The Company will perform utility cuts and restorations to meet the City's Master Specifications and the Standard Detail Drawings:

Utility Cut Width (mm)	Surface Infrastructure Type / Drawing Number				
	Asphalt Pavement	Concrete Pavement	Gravel	Curb/Walk	Boulevard
Less than 300	00-04-15	PW*		00-04-19	00-04-21
300 to 1200	00-04-16 00-04-17		00-04-18		
over 1200	PW*		PW*		

- .5 *PW – The Company will obtain a repair procedure from Public Works for Utility Cuts in, but limited to;
 - .1 Asphalt pavement with cut width greater than 1200mm.
 - .2 Concrete Pavement.
 - .3 Gravel Lanes or Roads with cut width greater than 1200mm or cut length greater than 20 meters.

END OF SECTION

City of Prince Albert - Contractor Utility Locate/Cut Request

10-5-9

ATTENTION: PUBLIC WORKS | CITY HALL | PRINCE ALBERT | SK | S6V 7P3
(306) 953-4900 | publicworks@citypa.com

Section filled by PUBLIC WORKS:

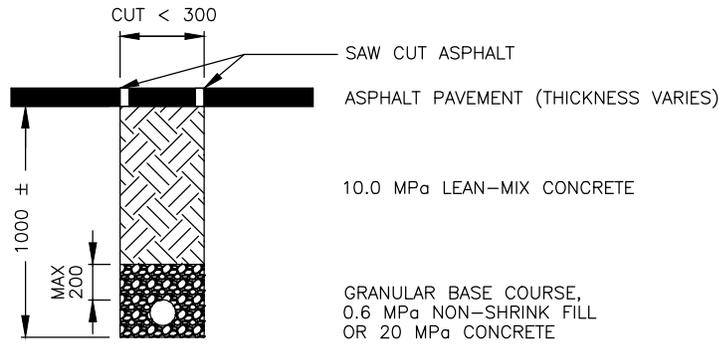
Received: _____

File #: _____

For City Locates, Traffic Accommodation, and Utility Cut Requests, fill in **section A**, submit to publicworks@citypa.com 72 hours prior to start of work. The exception is in emergency utility repairs call (306) 953-4900 or (306) 953-4284 after hours. Upon completion of the work, submit the same form with **section B** updated.

Section A	What do you need?			
	City Utilities Locates			
	Requested: <input type="checkbox"/>		Not Requested: <input type="checkbox"/>	
	The City doesn't guarantee the depth of any City utilities. It is the Requester or their Contractor's responsibility to daylight these utilities prior to excavation.			
	Traffic Accommodations			
	City Performed Closure: <input type="checkbox"/>		Self-Performed Closure: <input type="checkbox"/>	None Needed: <input type="checkbox"/>
	The City Requires an Encroachment permit if the work is being completed on a city alley or street as per Traffic Bylaw No. 1, of 2013.			
	Utility Cut Information:			
	Job# / Plan#? _____		When? Requested start date: _____	
	Skip to Contact Information if you have a Job# or Plan# previously permitted by Public Works.			
Where are you cutting: _____				
Civic		Street Name	Street Type (Lane, Ave, Cres etc)	Street Direction:
What? <input type="checkbox"/> Road <input type="checkbox"/> Walk <input type="checkbox"/> Lane <input type="checkbox"/> City Boulevard (Lawn) <input type="checkbox"/> Private Property				
SIZE: Concrete L____x W____; Asphalt L____x W____; Gravel L____x W____; Lawn L____x W____				
Attach a sketch/map or plan with key reference points of scope or extents of works (roads, street names, landmarks, cut area).				
Contact Information:				
Who are you requesting on behalf? _____ <input type="checkbox"/> SaskEnergy <input type="checkbox"/> SaskPower <input type="checkbox"/> SaskTel				
Contact Name: _____				
Name		email	Phone Number	
Who is the Contractor Cutting/Restoring the site?				
Skip if the same as above.				
Contractors Name: _____ Address: _____				
Contractors Contact: _____				
Name		email	Phone Number	
I have read and understand all the above information and agree to your guidelines and I'm aware that failure to comply may result in increased costs or failure to receive future approvals. (Required)				
Owner/Contractor Signature: _____ Date: _____				
Section B	Utility Cut Completion and Acceptance:			<i>Section filled by PUBLIC WORKS:</i> Restoration Acceptance: Per: _____ Date: _____
	Date Started: _____ Date of Final Repair: _____			
	Restoration must be completed within 24 hours and before the work zone is removed. Your Restoration work is warranted for a 1-year time period.			
	Owner/Contractor Signature: _____ Date: _____			

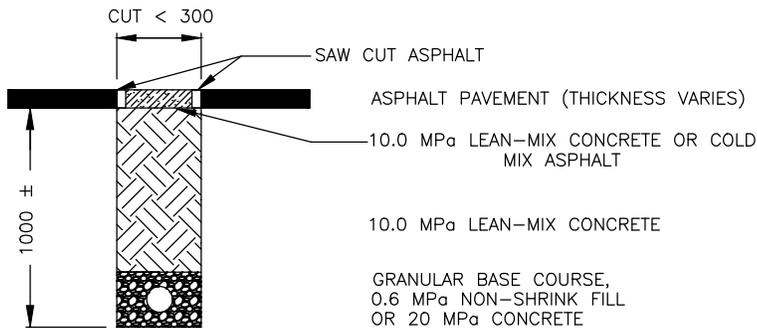
SUMMER WORK CONDITIONS



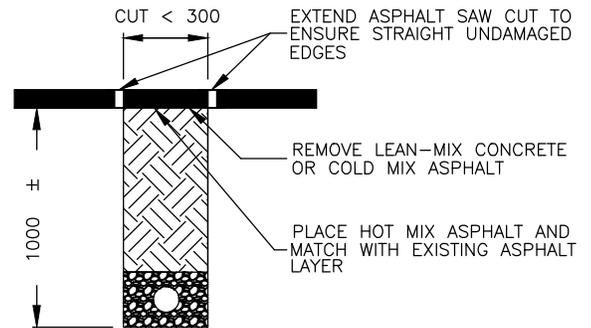
RESTORATION PROCEDURE

1. ALL PAVEMENT EDGES ARE TO BE SAW CUT.
2. ALL EXCAVATED MATERIAL WILL BE HAULED AND DISPOSED BY THE COMPANY.
3. THE COMPANY MAY PLACE GRANULAR BASE COURSE OR CONCRETE AROUND THE UTILITY.
4. 10 MPA LEAN MIX CONCRETE MUST BE USED FROM THE UTILITY COVER MATERIAL TO THE BOTTOM OF EXISTING PAVEMENT.
5. ASPHALT PATCH MUST BE THE GREATER OF 80MM THICK OR THE EXISTING ASPHALT THICKNESS. MAXIMUM LIFT THICKNESS IS 80MM.

WINTER WORK CONDITIONS



TEMPORARY REPAIR



FINAL REPAIR

RESTORATION PROCEDURE

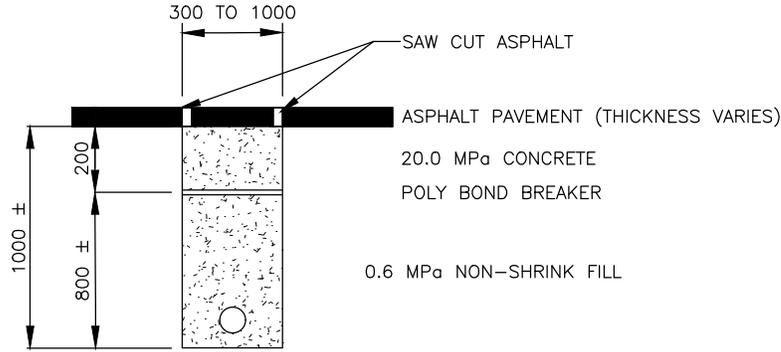
1. ALL PAVEMENT EDGES ARE TO BE SAW CUT.
2. ALL SNOW, ICE AND EXCAVATED MATERIAL IS TO BE HAULED TO AN APPROVED DISPOSAL AREA OFF SITE.
3. THE COMPANY MAY PLACE GRANULAR BASE COURSE OR CONCRETE AROUND THE UTILITY.
4. LEAN-MIX CONCRETE WITH A MAXIMUM STRENGTH OF 10.0MPa CAN BE USED FROM BOTTOM OF TRENCH TO BOTTOM OF EXISTING ASPHALT PAVEMENT WITH A COLD MIX PATCH COMPACTED IN PLACE TO THE TOP OF ASPHALT, OR;
5. LEAN-MIX CONCRETE WITH A MAXIMUM STRENGTH OF 10.0MPa CAN BE USED FROM BOTTOM OF TRENCH TO TOP OF EXISTING ASPHALT PAVEMENT.
6. THE COMPANY IS RESPONSIBLE FOR MAINTAINING THE TEMPORARY SURFACE PATCH UNTIL IT CAN BE REPAIRED UNDER SUMMER CONDITIONS.
7. IN SUMMER CONDITIONS, THE TEMPORARY PATCH IS TO BE REMOVED BY THE COMPANY TO BOTTOM OF ASPHALT AND SAW CUT EXTENDED TO ENSURE STRAIGHT UNDAMAGED EDGES.
8. ASPHALT PATCH MUST BE THE GREATER OF 80MM THICK OR THE EXISTING ASPHALT THICKNESS. MAXIMUM LIFT THICKNESS IS 80MM.

GENERAL NOTES

1. ALL BURIED UTILITY CUTS AND RESTORATIONS MUST BE REPORTED TO PUBLIC WORKS AND FOLLOW PROCEDURES AS PER MASTER SPECIFICATIONS 6100: SHALLOW BURIED UTILITIES.
2. ALL DIMENSIONS IN THE DRAWINGS ARE IN mm.
3. RELATED SECTIONS: ASPHALT 02741 | CONCRETE 02770 | GRANULAR BASE 02721

			CITY OF PRINCE ALBERT PUBLIC WORKS		APPROVED <i>Wes Hicks</i>
			SHALLOW BURIED UTILITY REPAIR LESS THAN 300mm ASPHALT CUT		
2	FEB 2020	REVISED SPECIFICATIONS			
1	NOV 2018	REVISED SPECIFICATIONS			
No.	DATE	REVISION	DRAWN R.REGNIER	DESIGNED M.GAREAU	DATE FEB 2020
					SCALE N.T.S. DWG. No. 00-04-15

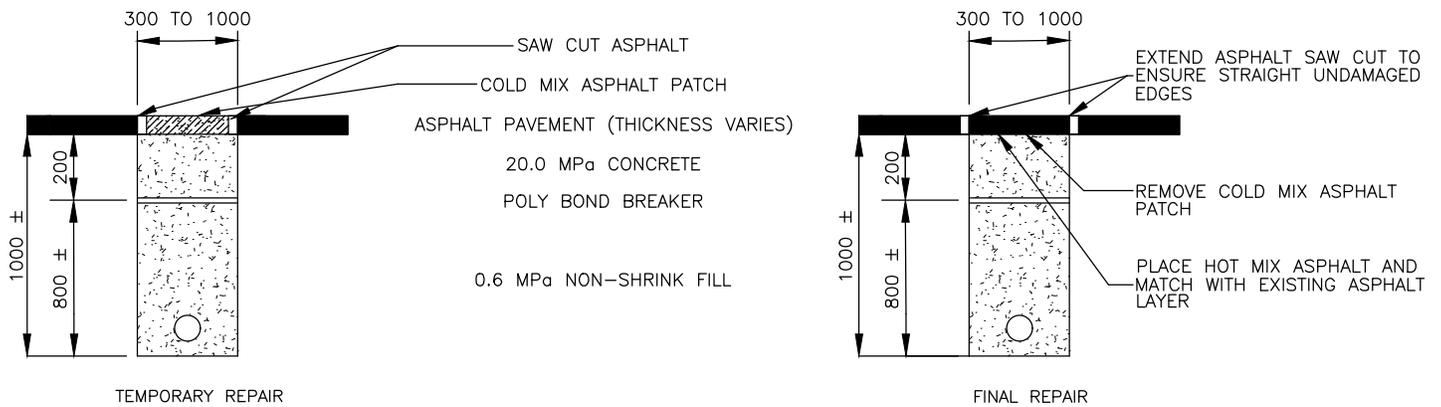
SUMMER WORK CONDITIONS



RESTORATION PROCEDURE

1. ALL PAVEMENT EDGES ARE TO BE SAW CUT.
2. ALL EXCAVATED MATERIAL WILL BE HAULED AND DISPOSED BY THE COMPANY.
3. 0.6 MPA NON-SHRINK FILL MUST BE USED FROM BOTTOM OF TRENCH TO 200MM BELOW THE BOTTOM OF FINISHED PAVEMENT SURFACE.
4. PLACE A POLYETHYLENE BOND BREAKER BETWEEN 0.6MPA AND THE 20MPA CONCRETE.
5. MINIMUM 200MM OF 20MPA CONCRETE MUST BE USED BELOW EXISTING ASPHALT.
6. ASPHALT PATCH MUST BE THE GREATER OF 80MM THICK OR THE EXISTING ASPHALT THICKNESS.
7. MAXIMUM LIFT THICKNESS IS 80MM.

WINTER WORK CONDITIONS



RESTORATION PROCEDURE

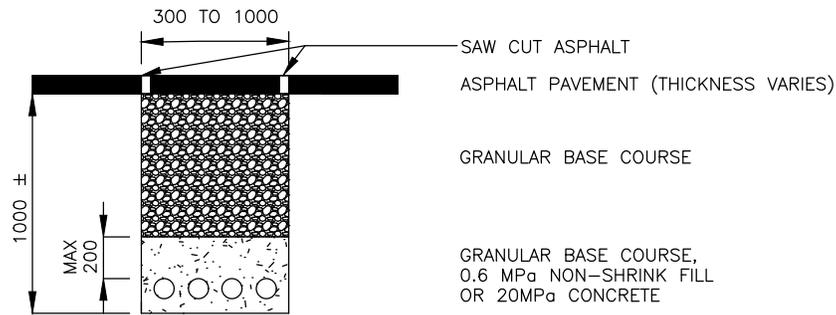
1. ALL PAVEMENT EDGES ARE TO BE SAW CUT.
2. ALL SNOW, ICE AND EXCAVATED MATERIAL IS TO BE HAULED TO AN APPROVED DISPOSAL AREA OFF SITE.
3. 0.6 MPA NON-SHRINK FILL MUST BE USED FROM BOTTOM OF TRENCH TO 200MM BELOW THE BOTTOM OF FINISHED PAVEMENT SURFACE.
4. PLACE A POLYETHYLENE BOND BREAKER BETWEEN THE 0.6MPA AND THE 20MPA CONCRETE.
5. MINIMUM 200MM OF 20MPA CONCRETE MUST BE USED BELOW EXISTING ASPHALT.
6. A TEMPORARY COLD MIX PATCH IS TO BE PLACED TO THE TOP OF ASPHALT AND COMPACTED IN PLACE.
7. THE COMPANY IS RESPONSIBLE FOR MAINTAINING THE TEMPORARY SURFACE PATCH UNTIL IT CAN BE REPAIRED IN SUMMER CONDITIONS.
8. IN SUMMER CONDITIONS, THE TEMPORARY PATCH IS TO BE REMOVED BY THE COMPANY TO BOTTOM OF ASPHALT AND SAW CUT EXTENDED TO ENSURE STRAIGHT UNDAMAGED EDGES.
9. ASPHALT PATCH MUST BE THE GREATER OF 80MM THICK OR THE EXISTING ASPHALT THICKNESS. MAXIMUM LIFT THICKNESS IS 80MM.

GENERAL NOTES

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2. ALL DIMENSIONS IN THE DRAWINGS ARE IN mm.
3. RELATED SECTIONS: ASPHALT 02741 | CONCRETE 02770 | GRANULAR BASE 02721

			CITY OF PRINCE ALBERT PUBLIC WORKS		APPROVED <i>Wes Hicks</i>
			SHALLOW BURIED UTILITY REPAIR 300-1000mm ASPHALT CUT - METHOD 1		
2	FEB 2020	REVISED SPECIFICATIONS	SCALE N.T.S.		
1	NOV 2018	REVISED SPECIFICATIONS	DWG. No. 00-04-16		
No.	DATE	REVISION	DRAWN R.REGNIER	DESIGNED M.GAREAU	DATE FEB 2020

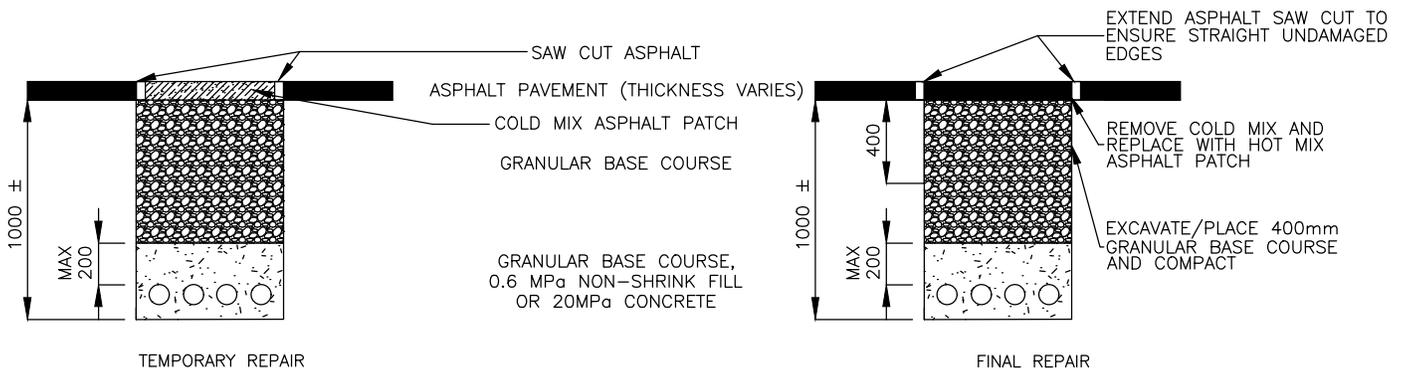
SUMMER WORK CONDITIONS



RESTORATION PROCEDURE

1. ALL PAVEMENT EDGES ARE TO BE SAW CUT.
2. ALL EXCAVATED MATERIAL WILL BE HAULED AND DISPOSED BY THE COMPANY.
3. THE COMPANY MAY PLACE GRANULAR BASE COURSE OR 0.6 MPA NON-SHRINK FILL OR 20 MPA CONCRETE AROUND THE UTILITY TO A MAXIMUM OF 200 MM ABOVE THE UTILITY.
4. GRANULAR BASE COURSE WILL BE PLACED UP TO BOTTOM OF ASPHALT. A PLATE TAMPER OR VIBRATORY ROLLER MUST BE USED FOR COMPACTION OF GRAVEL. BASE GRAVEL SHALL BE PLACED IN 150MM LIFTS (MAXIMUM) AND COMPACTED TO 100% OF STANDARD PROCTOR DENSITY.
5. ASPHALT PATCH MUST BE THE GREATER OF 80MM THICK OR THE EXISTING ASPHALT THICKNESS.
6. MAXIMUM LIFT THICKNESS IS 80MM.

WINTER WORK CONDITIONS



RESTORATION PROCEDURE

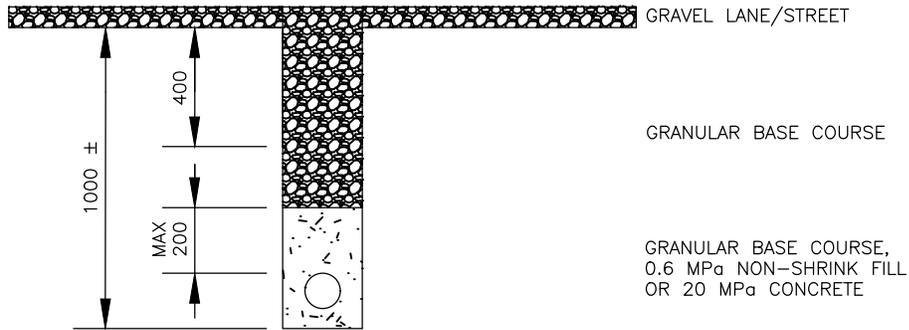
1. ALL PAVEMENT EDGES ARE TO BE SAW CUT.
2. ALL SNOW, ICE AND EXCAVATED MATERIAL IS TO BE HAULED TO AN APPROVED DISPOSAL AREA OFF SITE.
3. THE COMPANY MAY PLACE GRANULAR BASE COURSE OR 0.6 MPA NON-SHRINK FILL OR 20 MPA CONCRETE AROUND THE UTILITY TO A MAXIMUM OF 200 MM ABOVE THE UTILITY.
4. GRANULAR BASE COURSE WILL BE PLACED UP TO BOTTOM OF ASPHALT. A PLATE TAMPER OR VIBRATORY ROLLER MUST BE USED FOR COMPACTION OF GRAVEL. BASE GRAVEL SHALL BE PLACED IN 150MM LIFTS (MAXIMUM) WITH A COMPACTIVE EFFORT MADE.
5. A TEMPORARY COLD MIX PATCH IS TO BE PLACED TO THE TOP OF ASPHALT AND COMPACTED IN PLACE.
6. THE COMPANY IS RESPONSIBLE FOR MAINTAINING THE TEMPORARY SURFACE PATCH UNTIL IT CAN BE REPAIRED IN SUMMER CONDITIONS.
7. IN SUMMER CONDITIONS, THE TEMPORARY PATCH IS TO BE REMOVED BY THE COMPANY AND SAW CUT EXTENDED TO ENSURE STRAIGHT UNDAMAGED EDGES OF THE CUT.
8. IF THE REPAIR HAS SETTLED, OR THE GRANULAR BASE IS SATURATED OR SOFT, THE REPAIR WILL BE EXCAVATED TO A DEPTH OF 400 MM. GRANULAR BASE COURSE WILL BE PLACED UP TO THE BOTTOM OF ASPHALT. A PLATE TAMPER OR VIBRATORY ROLLER MUST BE USED FOR COMPACTION OF GRAVEL. BASE GRAVEL SHALL BE PLACED IN 150MM LIFTS (MAXIMUM) AND COMPACTED TO 100% OF STANDARD PROCTOR DENSITY.
9. ASPHALT PATCH MUST BE THE GREATER OF 80MM THICK OR THE EXISTING ASPHALT THICKNESS. MAXIMUM LIFT THICKNESS IS 80MM.

GENERAL NOTES

1. ALL BURIED UTILITY CUTS AND RESTORATIONS MUST BE REPORTED TO PUBLIC WORKS AND FOLLOW PROCEDURES AS PER MASTER SPECIFICATIONS 6100: SHALLOW BURIED UTILITIES.
2. ALL DIMENSIONS IN THE DRAWINGS ARE IN mm.
3. RELATED SECTIONS: ASPHALT 02741 | CONCRETE 02770 | GRANULAR BASE 02721

			CITY OF PRINCE ALBERT PUBLIC WORKS			APPROVED <i>Wes Hicks</i>	
			SHALLOW BURIED UTILITY REPAIR 300-1000mm ASPHALT CUT - METHOD 2				
2	FEB 2020	REVISED SPECIFICATIONS				SCALE N.T.S.	
1	NOV 2018	REVISED SPECIFICATIONS				DWG. No. 00-04-17	
No.	DATE	REVISION	DRAWN R.REGNIER	DESIGNED M.GAREAU	DATE FEB 2020		

SUMMER/WINTER WORK CONDITIONS



SUMMER RESTORATION PROCEDURE

1. ALL PAVEMENT EDGES ARE TO BE SAW CUT.
2. ALL EXCAVATED MATERIAL WILL BE HAULED AND DISPOSED BY THE COMPANY.
3. THE COMPANY MAY PLACE GRANULAR BASE COURSE OR 0.6 MPA NON-SHRINK FILL OR 20 MPA CONCRETE AROUND THE UTILITY TO A MAXIMUM OF 200 MM ABOVE THE UTILITY.
4. GRANULAR BASE COURSE WILL BE PLACED UP TO TOP OF ROAD SURFACE. A PLATE TAMPER OR VIBRATORY ROLLER MUST BE USED FOR COMPACTION OF GRAVEL. BASE GRAVEL SHALL BE PLACED IN 150MM LIFTS (MAXIMUM) AND COMPACTED TO 100% OF STANDARD PROCTOR DENSITY.
5. ASPHALT PATCH MUST BE THE GREATER OF 80MM THICK OR THE EXISTING ASPHALT THICKNESS.
6. MAXIMUM LIFT THICKNESS IS 80MM.

WINTER RESTORATION PROCEDURE

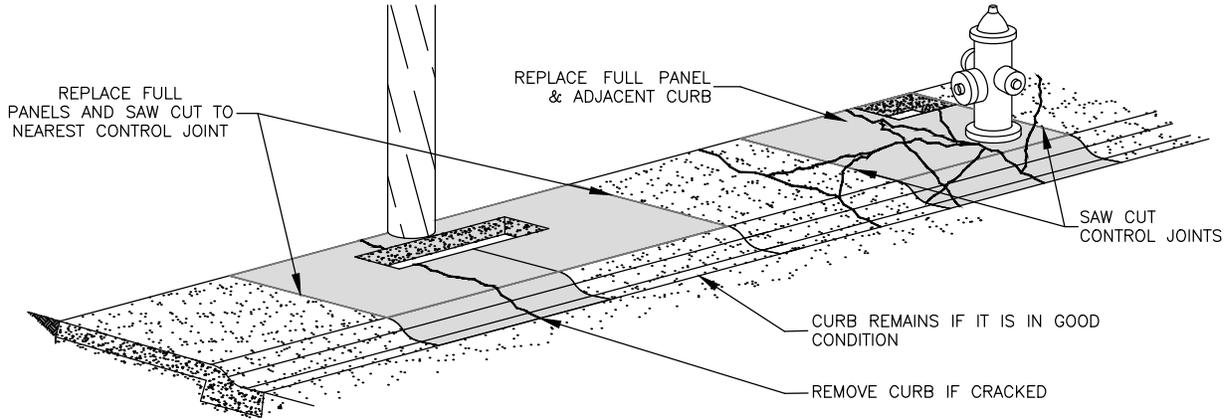
1. ALL SNOW, ICE AND EXCAVATED MATERIAL IS TO BE HAULED TO AN APPROVED DISPOSAL AREA OFF SITE
2. THE COMPANY MAY PLACE GRANULAR BASE COURSE OR 0.6 MPA NON-SHRINK FILL OR 20 MPA CONCRETE AROUND THE UTILITY TO A MAXIMUM OF 200 MM ABOVE THE UTILITY.
3. GRANULAR BASE COURSE TO BE PLACED UP TO THE TOP OF THE ROAD SURFACE. A PLATE TAMPER OR VIBRATORY ROLLER MUST BE USED FOR COMPACTION OF GRAVEL. BASE GRAVEL SHALL BE PLACED IN 150MM LIFTS (MAXIMUM) WITH A COMPACTIVE EFFORT MADE.
4. THE COMPANY IS RESPONSIBLE FOR MAINTAINING THE REPAIR UNTIL IT CAN BE INSPECTED IN SUMMER CONDITIONS AND ANY DEFICIENCIES CORRECTED BY THE COMPANY.
5. IF THE REPAIR HAS SETTLED, OR THE GRANULAR BASE COURSE IS SATURATED OR SOFT, THE REPAIR WILL BE EXCAVATED TO A DEPTH OF 400 MM. EXCAVATED MATERIAL CAN BE SPREAD ALONG THE EDGE OF THE GRAVEL ROAD UNIFORMLY.
6. GRANULAR BASE COURSE WILL BE REPLACED UP TO THE TOP OF THE ROAD SURFACE. A PLATE TAMPER OR VIBRATORY ROLLER MUST BE USED FOR COMPACTION OF GRAVEL. BASE GRAVEL SHALL BE PLACED IN 150MM LIFTS (MAXIMUM) AND COMPACTED TO 100% OF STANDARD PROCTOR DENSITY.

GENERAL NOTES

1. ALL BURIED UTILITY CUTS AND RESTORATIONS MUST BE REPORTED TO PUBLIC WORKS AND FOLLOW PROCEDURES AS PER MASTER SPECIFICATIONS 6100: SHALLOW BURIED UTILITIES.
2. ALL DIMENSIONS ARE IN MM.
3. RELATED SECTIONS: GRANULAR BASE 02721

			CITY OF PRINCE ALBERT PUBLIC WORKS			APPROVED <i>Wes Hicks</i>
			SHALLOW BURIED UTILITY REPAIR TYPICAL GRAVEL LANE & STREET CUT			SCALE N.T.S.
2	FEB 2020	REVISED SPECIFICATIONS				DWG. No. 00-04-18
1	NOV 2018	REVISED SPECIFICATIONS				
No.	DATE	REVISION	DRAWN R.REGNIER	DESIGNED M.GAREAU	DATE FEB 2020	

SUMMER WORK CONDITIONS



RESTORATION PROCEDURE

CUTTING AND REMOVAL OF CONCRETE

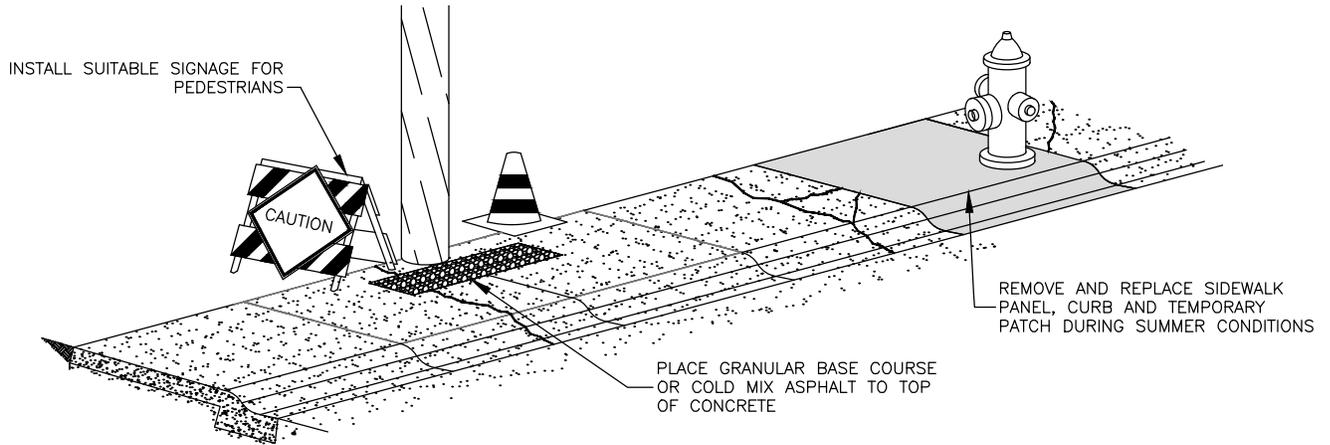
1. REMOVE CONCRETE PANELS AND CURB LENGTHS TO THE NEAREST CONTROL JOINT THAT IS DISTURBED BY A UTILITY CUT, INCLUDING PANELS OR CURBS UNDERMINED DUE TO THE CUT.
2. FOR UTILITY CUTS IN MONOLITHIC SIDEWALKS, REMOVE THE CURB WITH THE SIDEWALK, UNLESS THE CURB IS IN GOOD CONDITION (NO CRACKS).
3. BEFORE REMOVAL, SAW CUT THE CONCRETE THROUGH ITS FULL DEPTH, LEAVING A STRAIGHT VERTICAL FACE. CONCRETE MAY BE BROKEN AT CONTROL JOINTS WITHOUT SAW CUTTING PROVIDED A STRAIGHT VERTICAL FACE FREE OF LOOSE MATERIALS REMAINS.

RECONSTRUCTION OF THE CONCRETE

1. CONSTRUCT REPLACEMENT CONCRETE IN ACCORDANCE WITH DRAWINGS:

00-03-01	00-03-03	00-03-05	00-03-07
00-03-02	00-03-04	00-03-06	00-03-08

WINTER WORK CONDITIONS



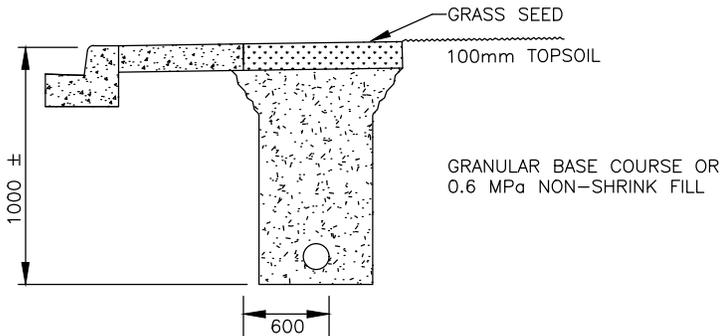
RESTORATION PROCEDURE

1. AFTER COMPLETING THE UTILITY WORK, FILL THE CUT WITH COLD MIX ASPHALT OR GRANULAR BASE COURSE PLACED IN 150MM LIFTS (MAXIMUM), COMPACTED TO 95% OF STANDARD PROCTOR DENSITY UP TO THE TOP OF CONCRETE.
2. THE COMPANY WILL INSTALL SUITABLE VISIBLE SIGNAGE TO INDICATE HAZARD FOR PEDESTRIANS. THE COMPANY WILL MAINTAIN THE SIGNAGE OVER THE WINTER CONDITIONS.
3. IN SUMMER CONDITIONS PROCEED WITH THE CONCRETE REPAIRS.

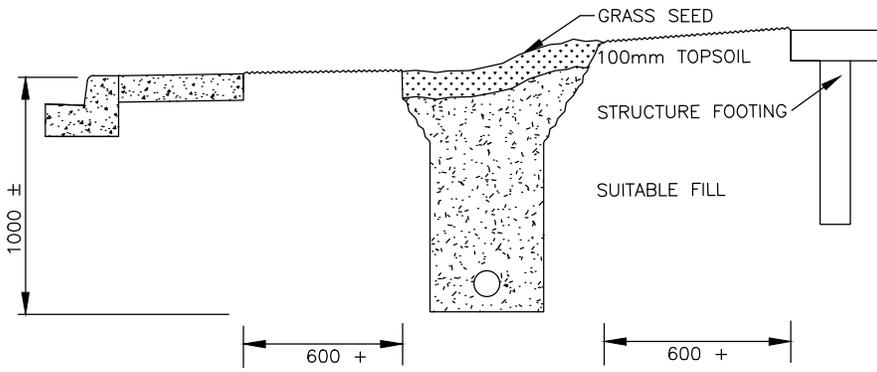
GENERAL NOTES

1. ALL BURIED UTILITY CUTS AND RESTORATIONS MUST BE REPORTED TO PUBLIC WORKS AND FOLLOW PROCEDURES AS PER MASTER SPECIFICATIONS 6100: BURIED UTILITIES.
2. MINIMUM CONCRETE THICKNESS IS 100mm, MINIMUM CONCRETE STRENGTH IS 32 MPa.
3. RELATED SECTIONS: CONCRETE SIDEWALKS, CURBS AND GUTTERS 02770

			CITY OF PRINCE ALBERT PUBLIC WORKS			APPROVED <i>Wes Hicks</i>
			SHALLOW BURIED UTILITY REPAIR TYPICAL CONCRETE CUT			SCALE N.T.S.
2	FEB 2020	REVISED SPECIFICATIONS				DWG. No. 00-04-19
No.	DATE	REVISION	DRAWN R.REGNIER	DESIGNED M.GAREAU	DATE FEB 2020	



UTILITY CUT WITHIN 600mm OF SIDEWALK/STRUCTURE



UTILITY CUT ≥ 600mm FROM SIDEWALK/STRUCTURE

GENERAL NOTES

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- ALL DIMENSIONS ARE IN MM.
RELATED SECTIONS: GRANULAR BASE 02721 |
- TOPSOIL 02212 | SEEDING 02933
- CONTACT COMMUNITY SERVICES AT 306-953-4800 TO PURCHASE GRASS SEED MIX.
- FOR AREAS WITH IRRIGATION, USE GRASS SEED MIX:
40% CREEPING RED FESCUE "BOREAL"
37% PERENNIAL RYE "FIESTA 3"
15% KENTUCKY BLUE "ABLE 1"
8% KENTUCKY BLUE "MIDNIGHT"
- FOR AREAS WITH NO IRRIGATION, USE GRASS SEED MIX:
35% ABERDEEN CREEPING RED FESCUE
25% SHADOW III CHEWINGS FESCUE
20% SHEEP FESCUE
20% HARD FESCUE

SUMMER WORK CONDITIONS

RESTORATION PROCEDURE

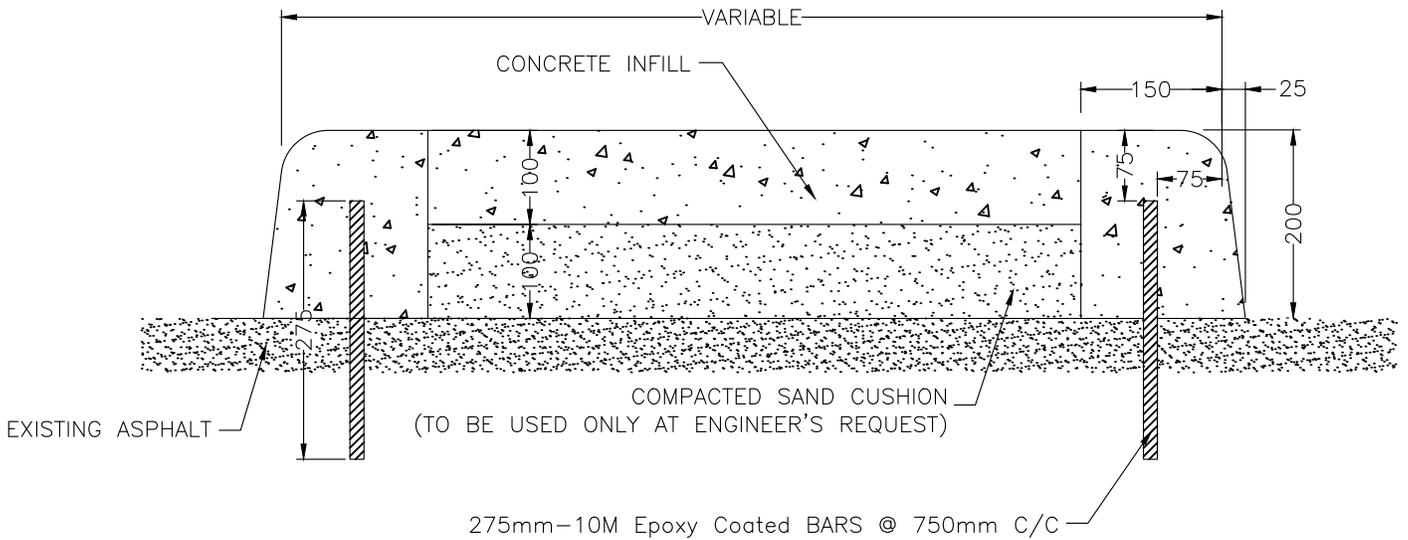
- ALL EXCAVATED MATERIAL WILL BE HAULED AND DISPOSED BY THE COMPANY.
- IF THE CUT IS WITHIN 600MM OF A SIDEWALK OR A STRUCTURE, GRANULAR BASE COURSE WILL BE PLACED IN 150MM LIFTS (MAXIMUM), COMPACTED TO 95% OF STANDARD PROCTOR DENSITY OR 0.6 MPA NON-SHRINK FILL WILL BE USED TO A DEPTH OF 100MM BELOW EXISTING TOPSOIL.
- IF THE CUT IS FURTHER THAN 600MM OF A SIDEWALK OR A STRUCTURE, SUITABLE FILL WILL BE PLACED IN 150MM LIFTS (MAXIMUM), COMPACTED TO 95% OF STANDARD PROCTOR DENSITY TO A DEPTH OF 100MM BELOW EXISTING TOPSOIL.
- MINIMUM 100MM OF TOPSOIL WILL BE PLACED AND RAKED-IN PROVIDING A SMOOTH TRANSITION TO THE NEIGHBORING SOILS.
- GRASS SEED WILL BE BROADCAST IN PLACE AT 220 KG/HA (22G/M²) AND RAKED-IN THE TOP 5MM SURFACE OF THE TOPSOIL. GRASS SEED MIX WILL BE USED AS BELOW.

WINTER WORK CONDITIONS

RESTORATION PROCEDURE

- ALL SNOW, ICE AND EXCAVATED MATERIAL IS TO BE HAULED TO AN APPROVED DISPOSAL AREA OFF SITE
- IF THE CUT IS WITHIN 600MM OF A SIDEWALK OR A STRUCTURE, GRANULAR BASE COURSE WILL BE PLACED IN 150MM LIFTS (MAXIMUM), COMPACTED TO 95% OF STANDARD PROCTOR DENSITY TO TOP OF TOPSOIL.
- IF THE CUT IS FURTHER THAN 600MM OF A SIDEWALK OR A STRUCTURE, SUITABLE FILL WILL BE PLACED IN 150MM LIFTS (MAXIMUM), COMPACTED TO 95% OF STANDARD PROCTOR DENSITY TO TOP OF TOPSOIL.
- IN SUMMER CONDITIONS, THE COMPANY WILL REMOVE THE GRANULAR BASE COURSE OR FILL TO 100MM BELOW TOPSOIL.
- A MINIMUM 100MM OF TOPSOIL WILL BE PLACED AND RAKED-IN PROVIDING A SMOOTH TRANSITION TO THE NEIGHBORING SOILS.
- GRASS SEED WILL BE BROADCAST IN PLACE AT 220 KG/HA (22G/M²) AND RAKED-IN THE TOP 5MM SURFACE OF THE TOPSOIL. GRASS SEED MIX WILL BE USED AS BELOW.

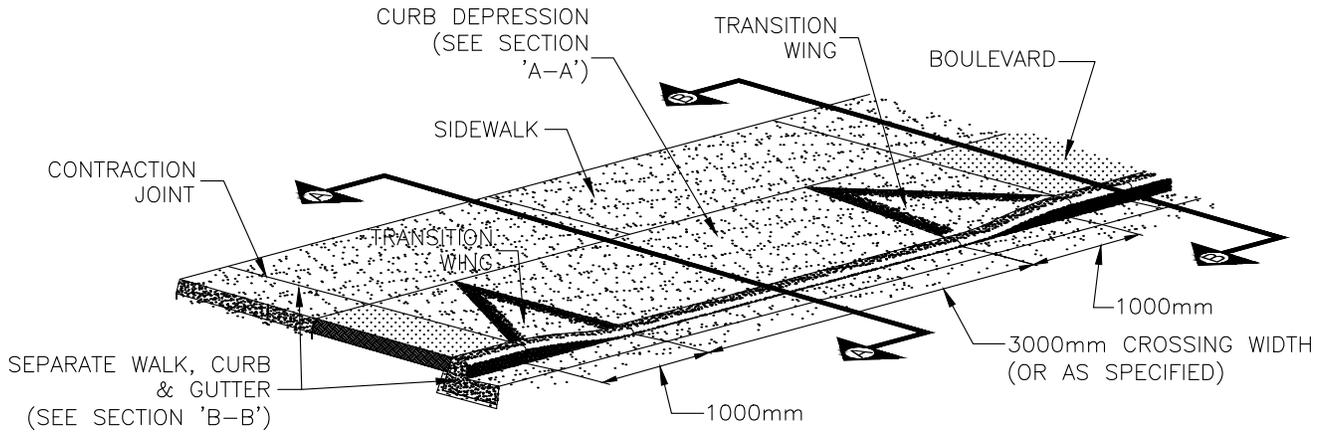
			CITY OF PRINCE ALBERT PUBLIC WORKS			APPROVED <i>Wes Hicks</i>			
			SHALLOW BURIED UTILITY REPAIR TYPICAL BOULEVARD AND PARK CUT					SCALE N.T.S.	
2	FEB 2020	REVISED SPECIFICATIONS	DRAWN R.REGNIER			DESIGNED M.GAREAU		DATE FEB 2020	
1	NOV 2018	REVISED SPECIFICATIONS							
No.	DATE	REVISION	DRAWN R.REGNIER		DESIGNED M.GAREAU		DATE FEB 2020		DWG. No. 00-04-21



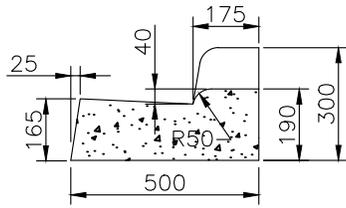
NOTES

1. CONCRETE COMPRESSIVE STRENGTH = 32 MPa
2. MAXIMUM AGGREGATE SIZE = 20mm
3. MAXIMUM SLUMP = 75mm
4. CONTRACTION JOINTS SHALL BE CONSTRUCTED @ INTERVALS OF 1.5m WITH GROOVES APPROX. 3mm IN WIDTH AND SHALL EXTEND 1/4 THE DEPTH OF THE STRUCTURE
5. ALL DIMENSIONS ARE IN "mm" UNLESS OTHERWISE SHOWN

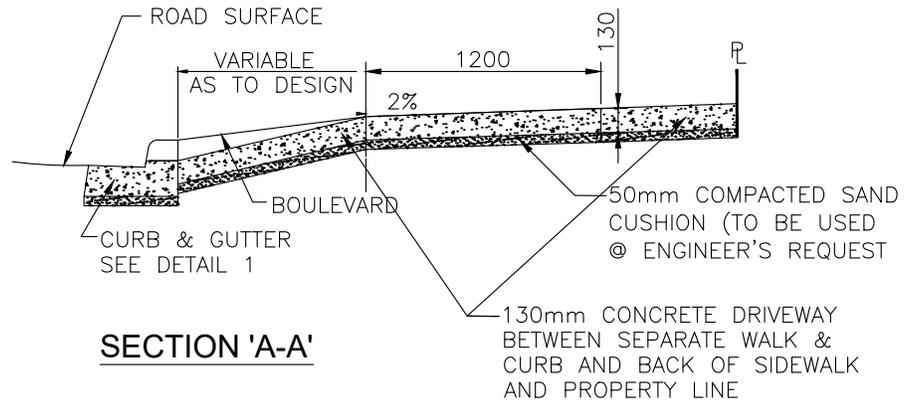
			CITY OF PRINCE ALBERT PUBLIC WORKS		APPROVED <i>Wes Hicks</i>
			MEDIAN DETAIL ON EXISTING ASPHALT		SCALE N.T.S.
No.	DATE	REVISION	DRAWN S. NUMEDAHL	DESIGNED N. MILLER	DATE OCT. 2014
					DWG. No. 00-03-01



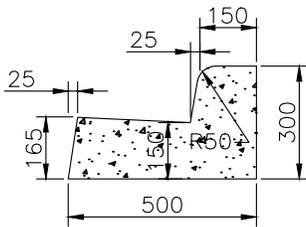
SEPARATE WALK, CURB & GUTTER CROSSING



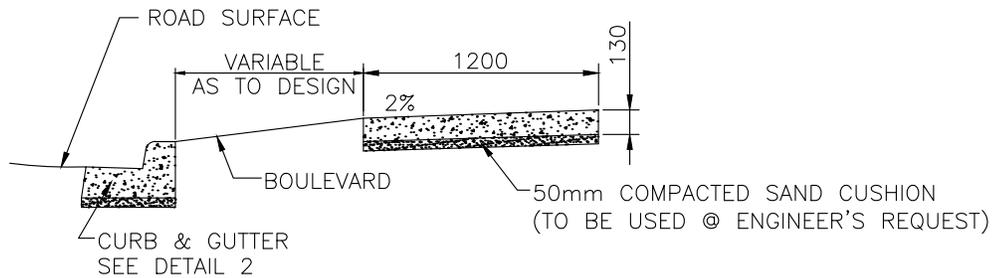
DETAIL 1



SECTION 'A-A'



DETAIL 2

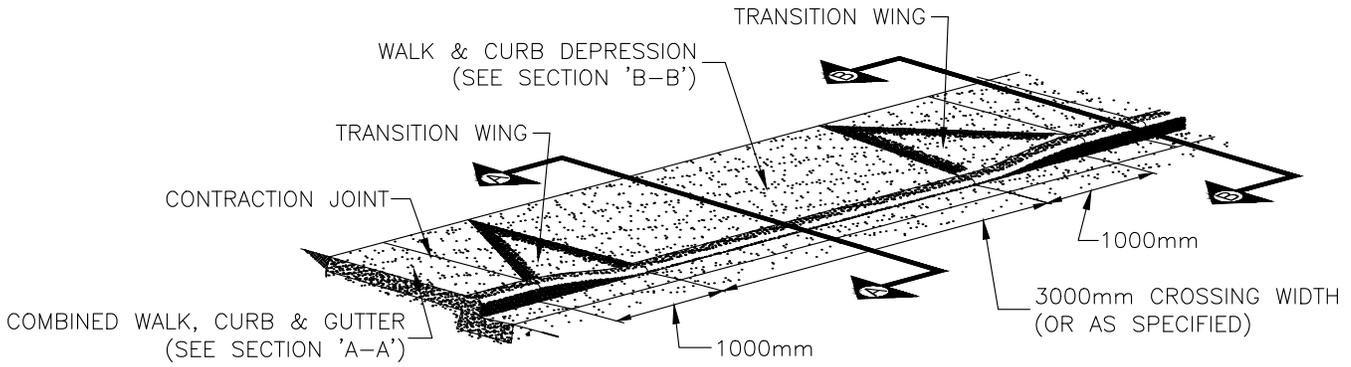


SECTION 'B-B'

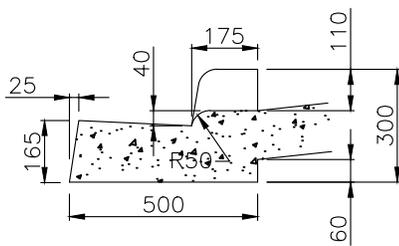
NOTES

1. CONCRETE COMPRESSIVE STRENGTH = 32 MP_a
2. MAXIMUM AGGREGATE SIZE = 20mm
3. MAXIMUM SLUMP = 75mm
4. CONTRACTION JOINTS SHALL BE CONSTRUCTED IN INTERVALS OF 1500mm WITH GROOVES APPROXIMATELY 3mm IN WIDTH AND SHALL EXTEND 1/4 OF THE DEPTH OF THE STRUCTURE
5. SEPARATE WALK AT COMMERCIAL/INDUSTRIAL AND LANE CROSSINGS SHALL BE CONSTRUCTED 175mm IN WIDTH
6. CONTRACTION JOINTS SHALL BE CONSTRUCTED IN ALL CROSSINGS AT INTERVALS OF 4000mm OR AT THE CENTRE OF CROSSINGS 6000mm OR LESS IN WIDTH
7. ALL DIMENSIONS ARE GIVEN IN "mm" UNLESS OTHERWISE STATED

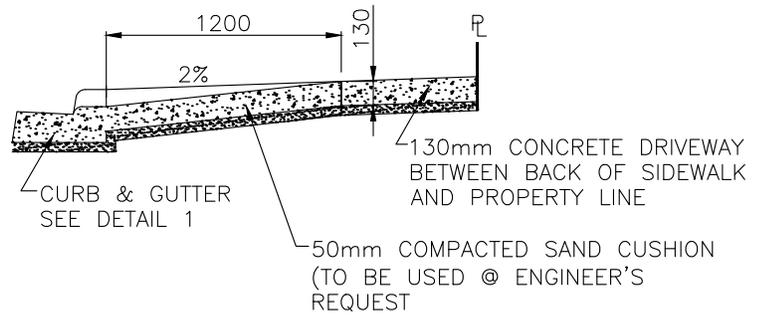
			CITY OF PRINCE ALBERT PUBLIC WORKS			APPROVED <i>Wes Hicks</i>
			VERTICAL CURB, GUTTER AND SEPARATE WALK			SCALE N.T.S.
1	8/6/2018	SURFACE REPAIR CLARIFICATIONS				DWG. No. 00-03-02
No.	DATE	REVISION	DRAWN S. NUMEDAHL	DESIGNED N. MILLER	DATE OCT. 2014	



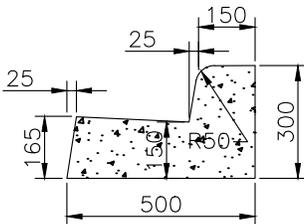
COMBINED WALK, CURB & GUTTER CROSSING



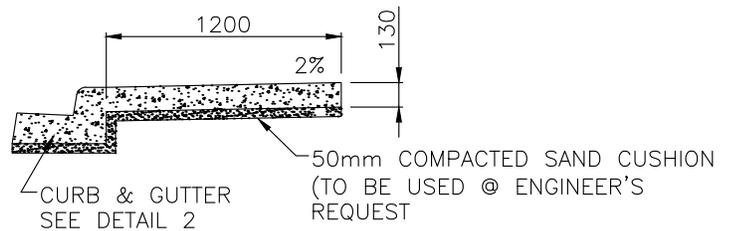
DETAIL 1



SECTION 'A-A'



DETAIL 2

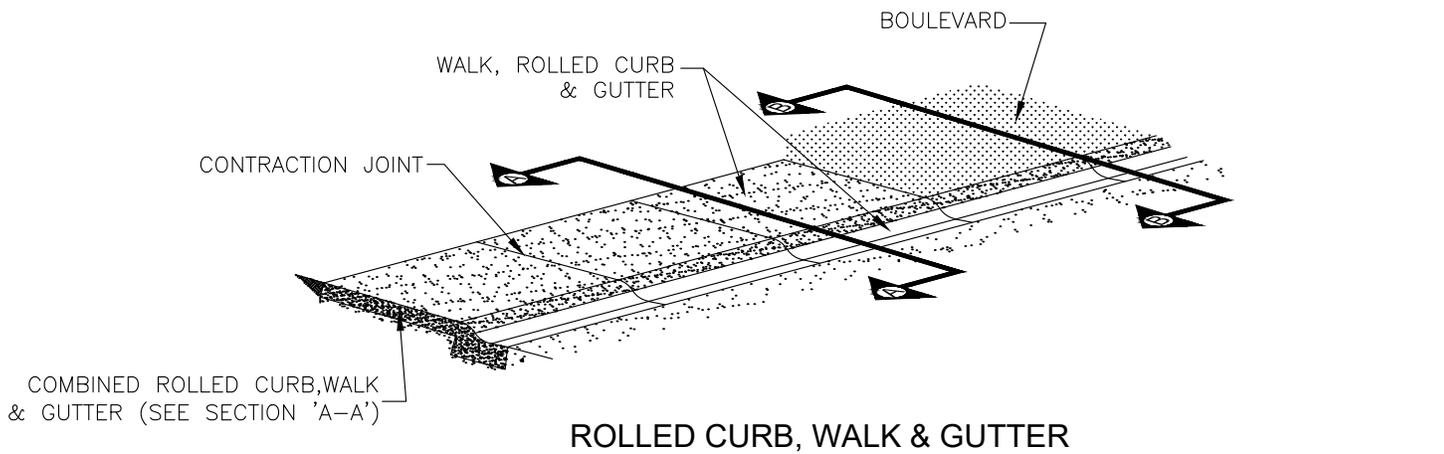


SECTION 'B-B'

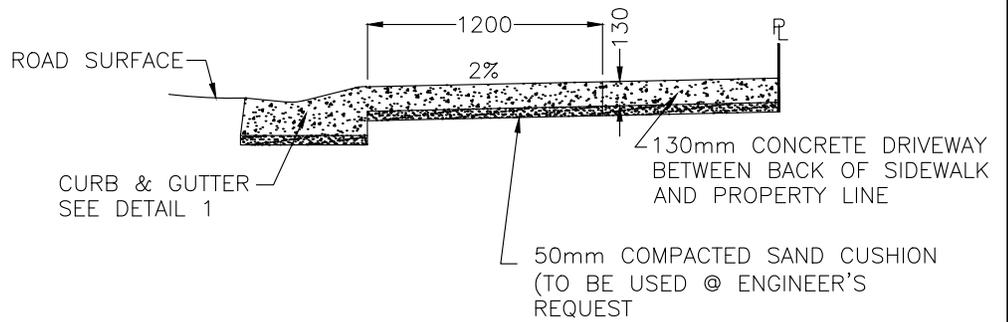
NOTES

1. CONCRETE COMPRESSIVE STRENGTH = 32 MPa
2. MAXIMUM AGGREGATE SIZE = 20mm
3. MAXIMUM SLUMP = 75mm
4. CONTRACTION JOINTS SHALL BE CONSTRUCTED IN INTERVALS OF 1500mm WITH GROOVES APPROXIMATELY 3mm IN WIDTH AND SHALL EXTEND 1/4 OF THE DEPTH OF THE STRUCTURE
5. CONTRACTION JOINTS SHALL BE CONSTRUCTED IN ALL CROSSINGS AT INTERVALS OF 4000mm OR AT THE CENTRE OF CROSSINGS 6000mm OR LESS IN WIDTH
6. ALL DIMENSIONS ARE GIVEN IN "mm" UNLESS OTHERWISE STATED

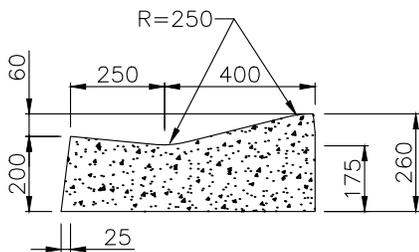
			CITY OF PRINCE ALBERT PUBLIC WORKS			APPROVED <i>Wes Hicks</i>	
			VERTICAL CURB, GUTTER AND SIDEWALK MONOLITHIC				
1	8/6/2018	SURFACE REPAIR CLARIFICATIONS				SCALE	
No.	DATE	REVISION	DRAWN S. NUMEDAHL	DESIGNED N. MILLER	DATE OCT. 2014	DWG. No. 00-03-03	



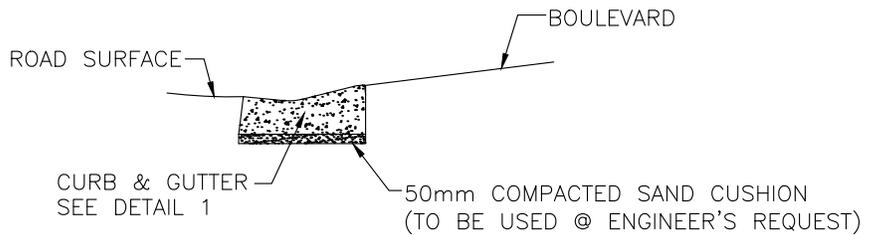
ROLLED CURB, WALK & GUTTER



SECTION 'A-A'



DETAIL 1

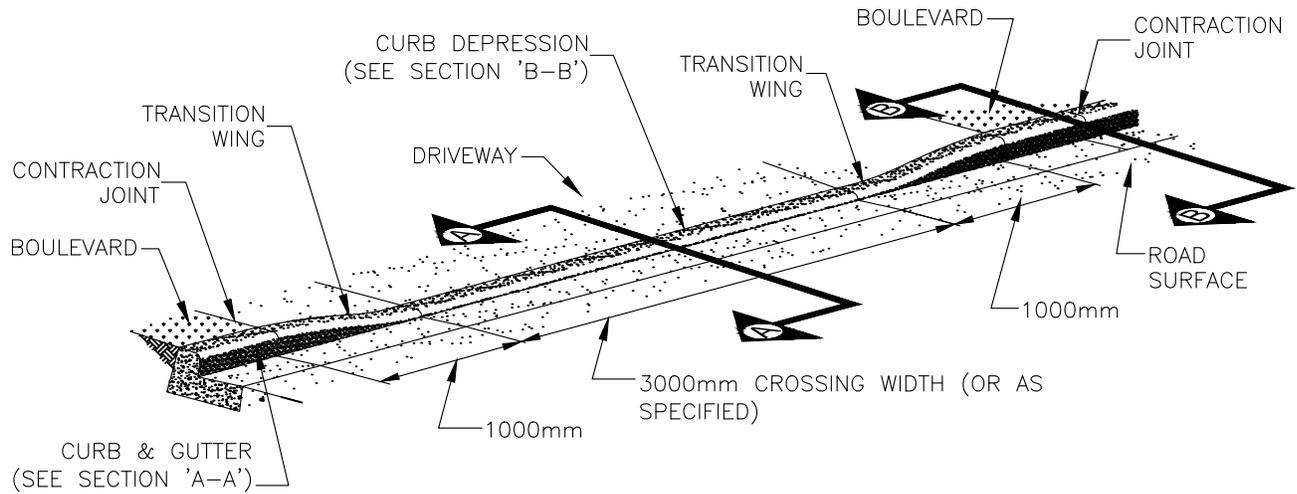


SECTION 'B-B'

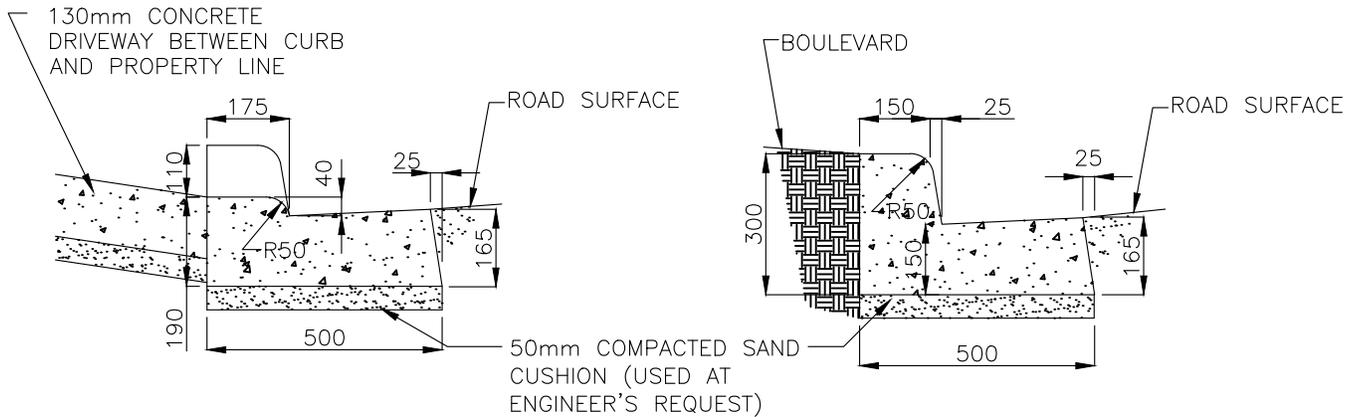
NOTES

1. CONCRETE COMPRESSIVE STRENGTH = 32 MPa
2. MAXIMUM AGGREGATE SIZE = 20mm
3. MAXIMUM SLUMP = 75mm
4. CONTRACTION JOINTS SHALL BE CONSTRUCTED IN INTERVALS OF 1500mm WITH GROOVES APPROXIMATELY 3mm IN WIDTH AND SHALL EXTEND 1/4 OF THE DEPTH OF THE STRUCTURE
5. CONTRACTION JOINTS SHALL BE CONSTRUCTED IN ALL CROSSINGS AT INTERVALS OF 4000mm OR AT THE CENTRE OF CROSSINGS 6000mm OR LESS IN WIDTH
6. ALL DIMENSIONS ARE GIVEN IN "mm" UNLESS OTHERWISE STATED

			CITY OF PRINCE ALBERT PUBLIC WORKS		APPROVED <i>Wes Hicks</i>
			ROLLED CURB, GUTTER AND SIDEWALK MONOLITHIC		SCALE
1	8/6/2018	SURFACE REPAIR CLARIFICATIONS	DRAWN S. NUMEHAHL	DESIGNED N. MILLER	DWG. No. 00-03-04
No.	DATE	REVISION	DATE OCT. 2014		



CURB & GUTTER CROSSING



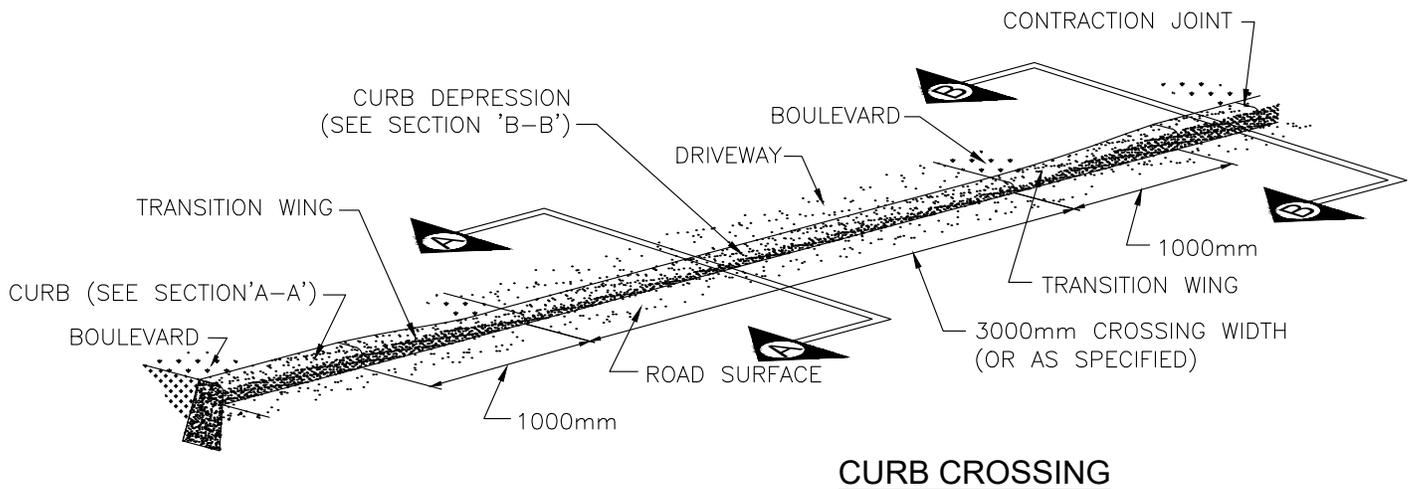
SECTION 'A-A'

SECTION 'B-B'

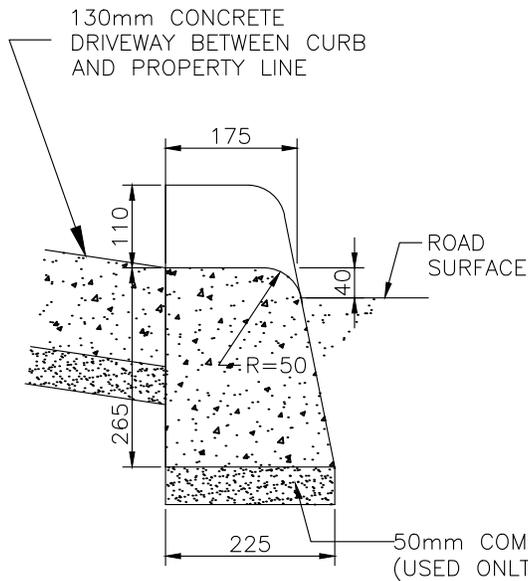
NOTES

1. CONCRETE COMPRESSIVE STRENGTH = 32 MPa
2. MAXIMUM AGGREGATE SIZE = 20mm
3. MAXIMUM SLUMP = 75mm
4. CONTRACTION JOINTS SHALL BE CONSTRUCTED IN INTERVALS OF 1500mm WITH GROOVES APPROXIMATELY 3mm IN WIDTH AND SHALL EXTEND 1/4 OF THE DEPTH OF THE STRUCTURE
5. CONTRACTION JOINTS SHALL BE CONSTRUCTED IN ALL CROSSINGS AT INTERVALS OF 4000mm OR AT THE CENTRE OF CROSSINGS 6000mm OR LESS IN WIDTH
6. ALL DIMENSIONS ARE GIVEN IN "mm" UNLESS OTHERWISE STATED

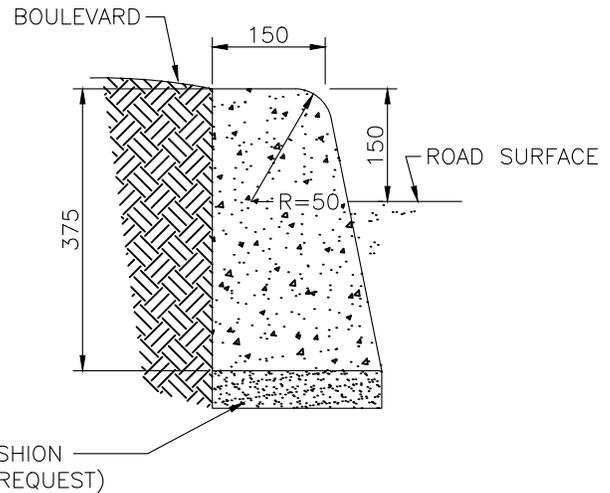
			CITY OF PRINCE ALBERT		APPROVED
			PUBLIC WORKS		<i>Wes Hicks</i>
			VERTICAL CURB AND GUTTER		SCALE
			CROSSING DETAIL		DWG. No.
1	06/01/18	SURFACE REPAIR CLARIFICATIONS	DRAWN S. NUMEHAHL	DESIGNED N. MILLER	DATE OCT. 2014
No.	DATE	REVISION			00-03-05



CURB CROSSING



SECTION 'A-A'

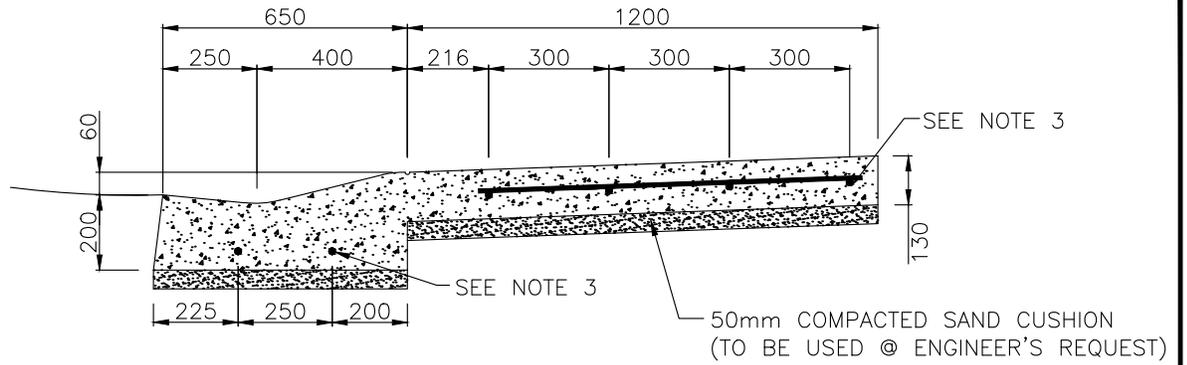


SECTION 'B-B'

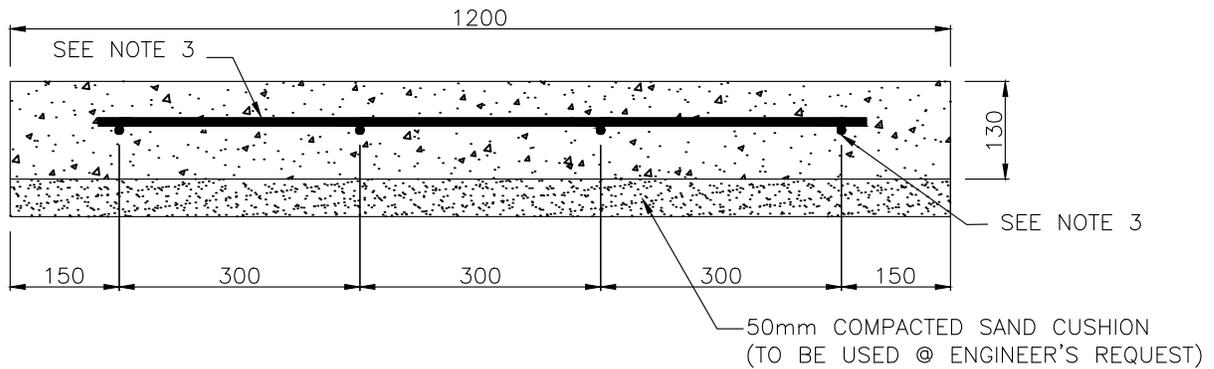
NOTES

1. CONCRETE COMPRESSIVE STRENGTH = 32MPa
2. MAXIMUM AGGREGATE SIZE = 20mm
3. MAXIMUM SLUMP = 75mm
4. CONTRACTION JOINTS SHALL BE CONSTRUCTED AT INTERVALS OF 1.5m WITH GROOVES APPROXIMATELY 3mm IN WIDTH AND SHALL EXTEND 1/4 THE DEPTH OF THE STRUCTURE
5. CONTRACTION JOINTS SHALL BE CONSTRUCTED IN ALL CROSSINGS AT INTERVALS OF 4.0m OR AT THE CENTRE OF CROSSINGS 6.0m OR LESS IN WIDTH
6. ALL DIMENSIONS ARE GIVEN IN "mm" UNLESS OTHERWISE INDICATED

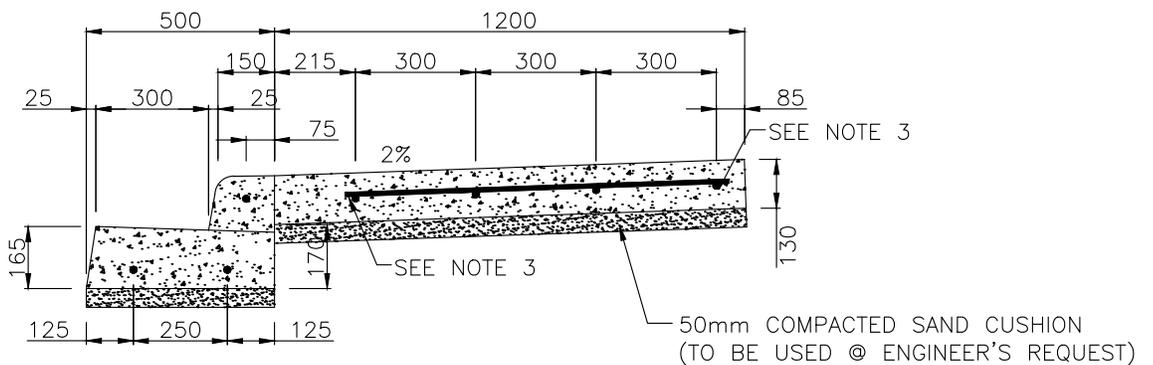
			CITY OF PRINCE ALBERT PUBLIC WORKS		APPROVED <i>Wes Hicks</i>
			VERTICAL CURB CROSSING DETAIL		SCALE N.T.S.
1	06/01/18	SURFACE REPAIR CLARIFICATIONS	DRAWN S. NUMEDAHL	DESIGNED N. MILLER	DWG. No. 00-03-06
No.	DATE	REVISION	DATE OCT. 2014		



COMBINED ROLLED CURB, WALK & GUTTER



SEPARATE WALK

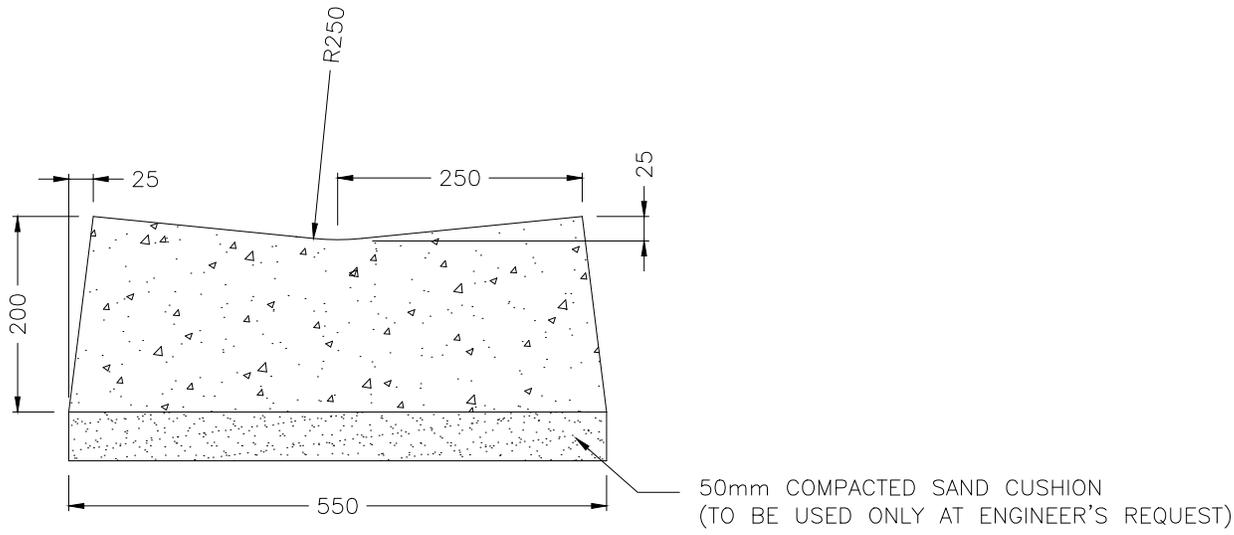


COMBINED WALK, CURB & GUTTER

NOTES

1. THE ENGINEER MAY REQUIRE THAT, PRIOR TO INSTALLING REINFORCING OVER BACKFILLED SERVICE CONNECTIONS, THE TRENCH BE WIDENED TO AN AREA 3m X 2m AND EXCAVATED TO A DEPTH OF 1m
2. MATERIAL TO BE REPLACED BY COMPACTION IN 150mm LIFTS @ 100% PROCTOR DENSITY
3. ALL REINFORCING BARS TO BE 10M MINIMUM

			CITY OF PRINCE ALBERT PUBLIC WORKS			APPROVED <i>Wes Hicks</i>
			REINFORCING REQUIREMENTS WHEN CROSSING BACKFILLED TRENCHES			SCALE N.T.S.
No.	DATE	REVISION	DRAWN S. NUMEDAHL	DESIGNED N. MILLER	DATE OCT. 2014	DWG. No. 00-03-07

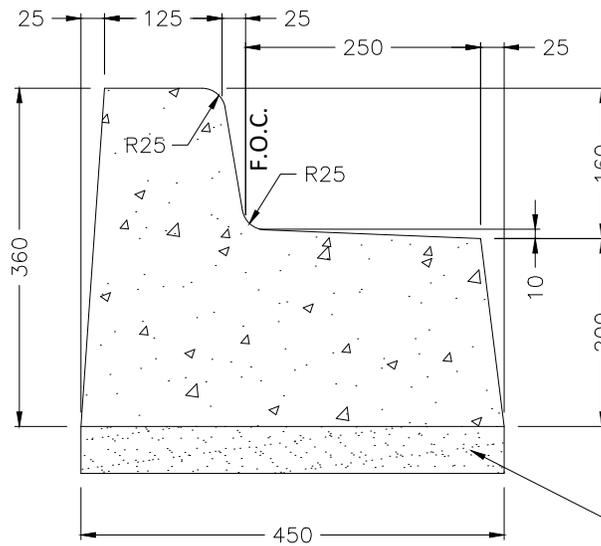


CONCRETE SWALE

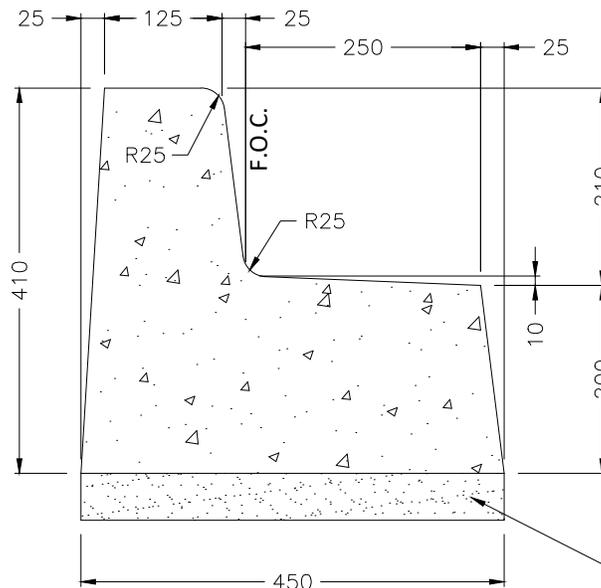
NOTES

1. CONCRETE COMPRESSIVE STRENGTH = 32 MPa
2. MAXIMUM AGGREGATE SIZE = 20mm
3. MAXIMUM SLUMP = 75mm
4. CONTRACTION JOINTS SHALL BE CONSTRUCTED @ INTERVALS OF 1.5m WITH GROOVES APPROX. 3mm IN WIDTH AND SHALL EXTEND 1/4 THE DEPTH OF THE STRUCTURE
5. CONTRACTION JOINTS SHALL BE CONSTRUCTED IN ALL CROSSINGS AT INTERVALS OF 4m OR AT THE CENTRE OF CROSSINGS 6m OR LESS IN WIDTH

			CITY OF PRINCE ALBERT PUBLIC WORKS		APPROVED <i>Wes Hicks</i>
			CONCRETE SWALE DETAIL		SCALE N.T.S.
No.	DATE	REVISION	DRAWN S. NUMEDAHL	DESIGNED N. MILLER	DATE OCT. 2014
					DWG. No. 00-03-08



150mm VERTICAL CURB & GUTTER

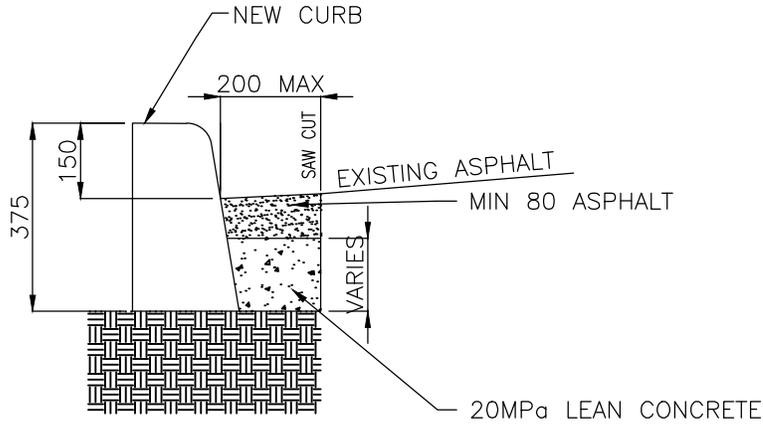


200mm VERTICAL CURB & GUTTER

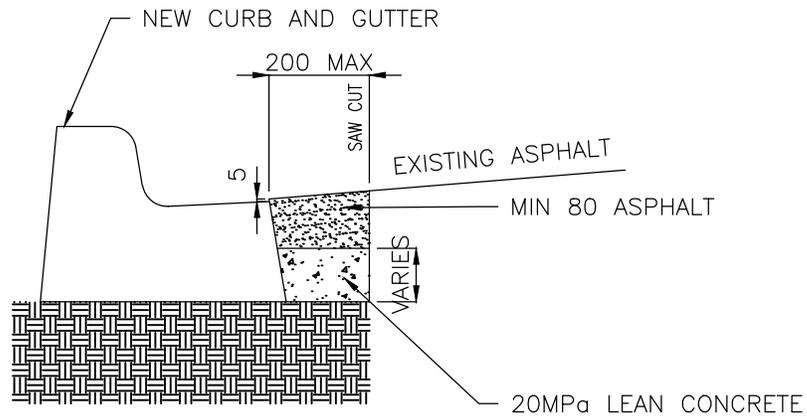
NOTES

1. CONCRETE COMPRESSIVE STRENGTH = 32 MPa
2. MAXIMUM AGGREGATE SIZE = 20mm
3. MAXIMUM SLUMP = 75mm
4. CONTRACTION JOINTS SHALL BE CONSTRUCTED @ INTERVALS OF 1.5m WITH GROOVES APPROX. 3mm IN WIDTH AND SHALL EXTEND 1/4 THE DEPTH OF THE STRUCTURE
5. CONTRACTION JOINTS SHALL BE CONSTRUCTED IN ALL CROSSINGS AT INTERVALS OF 4m OR AT THE CENTRE OF CROSSINGS 6m OR LESS IN WIDTH

			CITY OF PRINCE ALBERT PUBLIC WORKS		APPROVED <i>Wes Hicks</i>
			REVERSED CURB AND GUTTER DETAIL		SCALE N.T.S.
No.	DATE	REVISION	DRAWN S. NUMEDAHL	DESIGNED N. MILLER	DATE JUNE 2015
					DWG. No. 00-03-09



CURB



CURB & GUTTER

NOTES

1. EDGE OF ASPHALT GUTTER PATCH TO BE SAWCUT
2. LEAN MIX COMPRESSIVE STRENGTH = 20MPa
3. TACK COAT REQUIRED ON LEAN MIX AND ADJOINING
4. CONTRACTION JOINTS SHALL BE CONSTRUCTED IN INTERVALS OF 1500mm VERTICAL SURFACES PRIOR TO ASPHALT PATCHING.

			CITY OF PRINCE ALBERT PUBLIC WORKS		APPROVED <i>Wes Hicks</i>
			GUTTER PATCH PAVING		SCALE N.T.S.
No.	DATE	REVISION	DRAWN R.REGNIER	DESIGNED M. GAREAU	DATE MAR. 2020
					DWG. No. 00-03-10