

City of Prince Albert Standard Detail Drawings

Construction of Traffic, Utility Services, Streetscape,
Curbs, Right of Way, Sidewalks and Ramps,
Miscellaneous

Approved April 27, 2020

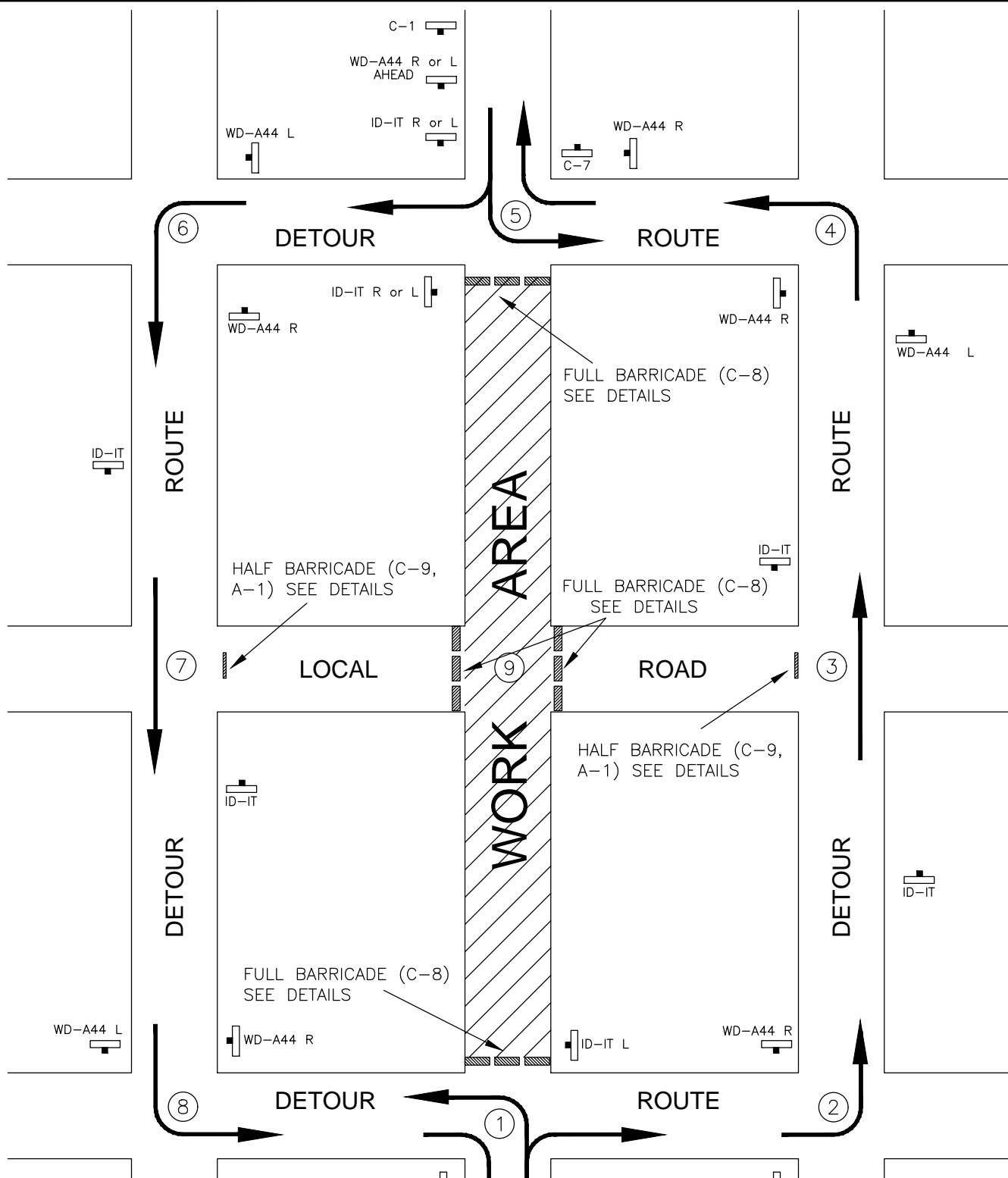


City of
Prince Albert

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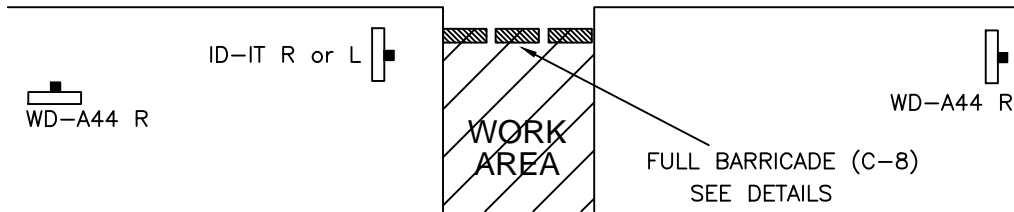
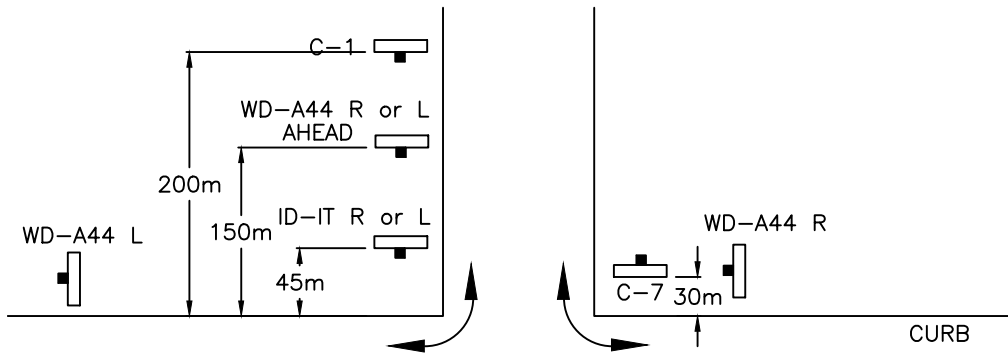
Category	File Number	New File #	Description
Right-Of-Way Details	00-04-01		18m RIGHT OF WAY
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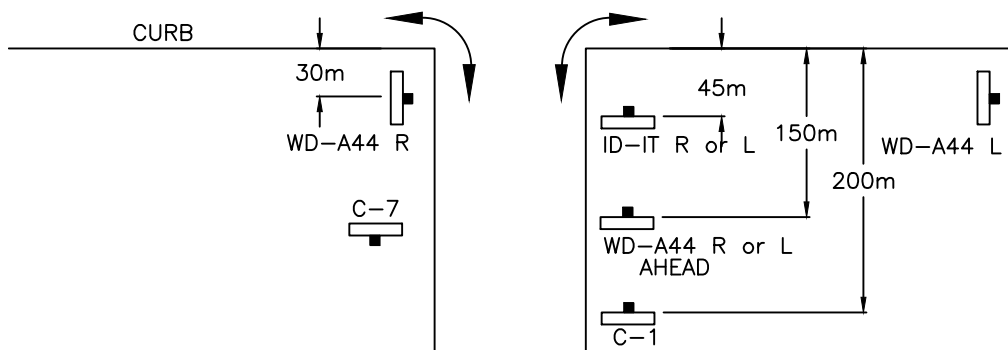
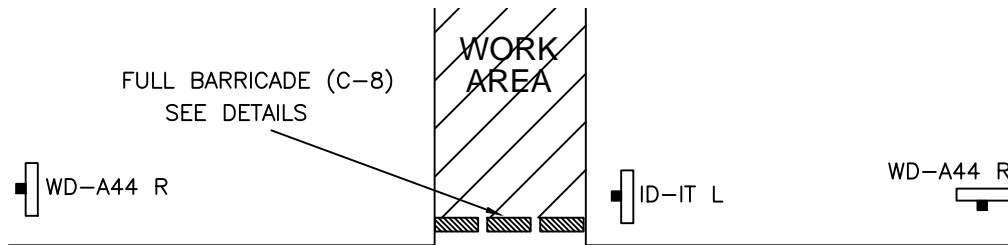
NOTES

1. ALL BARRICADES WITH FLARES OR FLASHERS
2. FULL BARRICADE REQUIRES ONLY 2 BARRICADES & 2 FLASHERS
3. ALL SIGNS TO BE NO LESS THAN 1.2m ABOVE GRADE

			CITY OF PRINCE ALBERT PUBLIC WORKS		APPROVED <i>Weo Hicks</i>
			ARTERIAL STREET DETOUR		SCALE N.T.S.
No.	DATE	REVISION	DRAWN S. NUMEDAHL	DESIGNED N. MILLER	DATE OCT. 2014
					DWG. No. 00-00-01

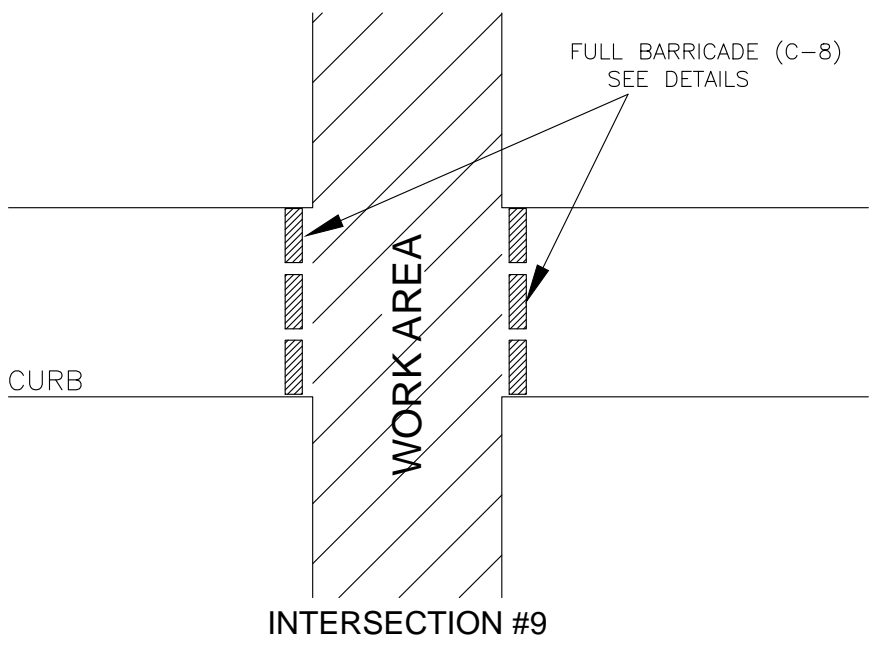
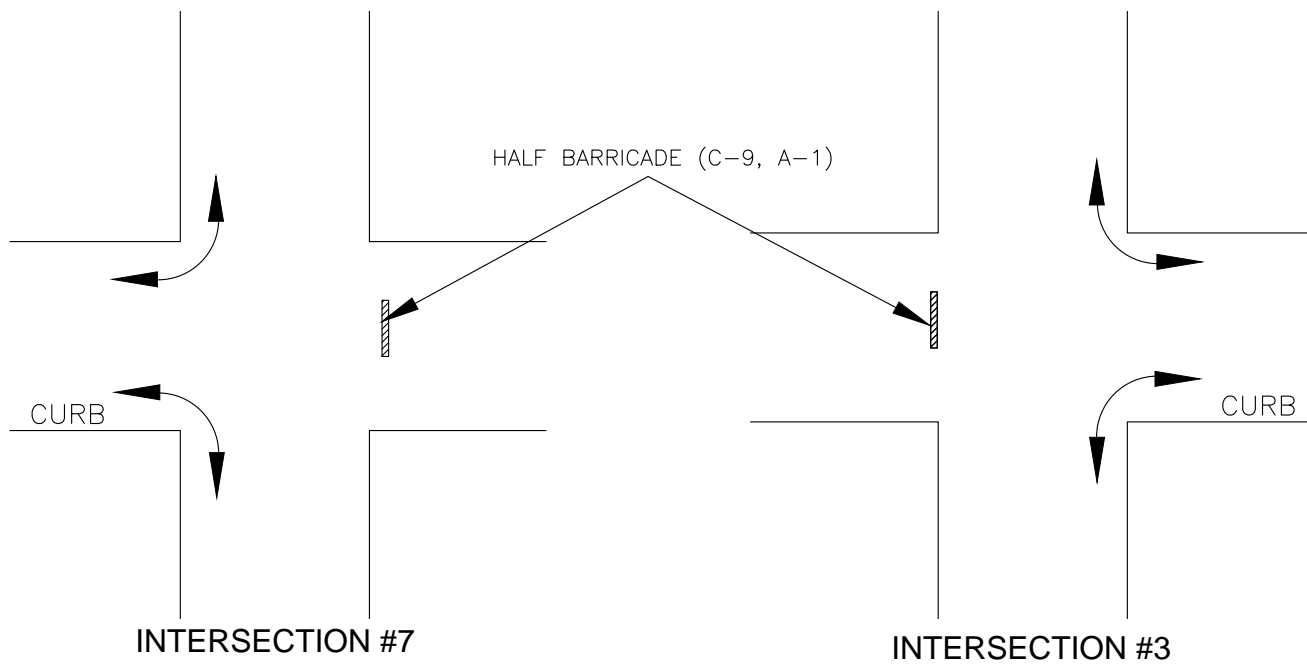


INTERSECTION #5

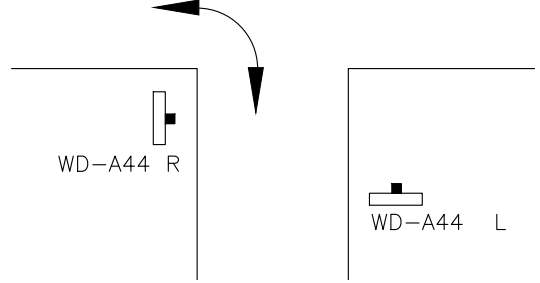
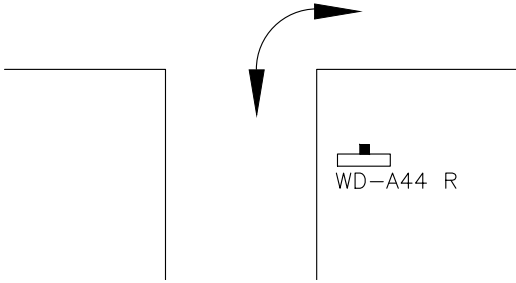
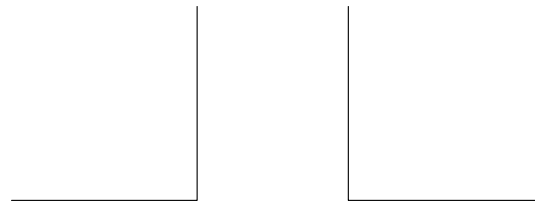
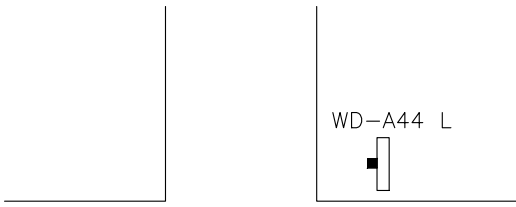


INTERSECTION #1

			CITY OF PRINCE ALBERT			APPROVED
			PUBLIC WORKS			<i>Weo Hicks</i>
			ARTERIAL INTERSECTIONS			
			DETAILS 1 & 5			SCALE N.T.S.
No.	DATE	REVISION	DRAWN S. NUMEDAHL	DESIGNED N. MILLER	DATE OCT. 2014	DWG. No. 00-00-02

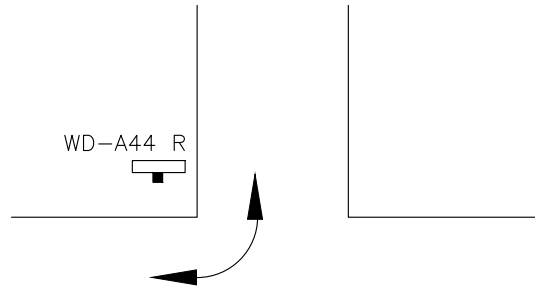
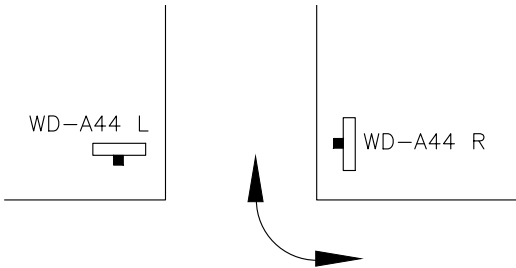


			CITY OF PRINCE ALBERT		APPROVED
			PUBLIC WORKS		<i>Wes Hicks</i>
			ARTERIAL INTERSECTIONS		SCALE
			DETAILS 3, 7 & 9		N.T.S.
No.	DATE	REVISION	DRAWN S. NUMEDAHL	DESIGNED N. MILLER	DWG. No. 00-00-03
				DATE OCT. 2014	



INTERSECTION #6

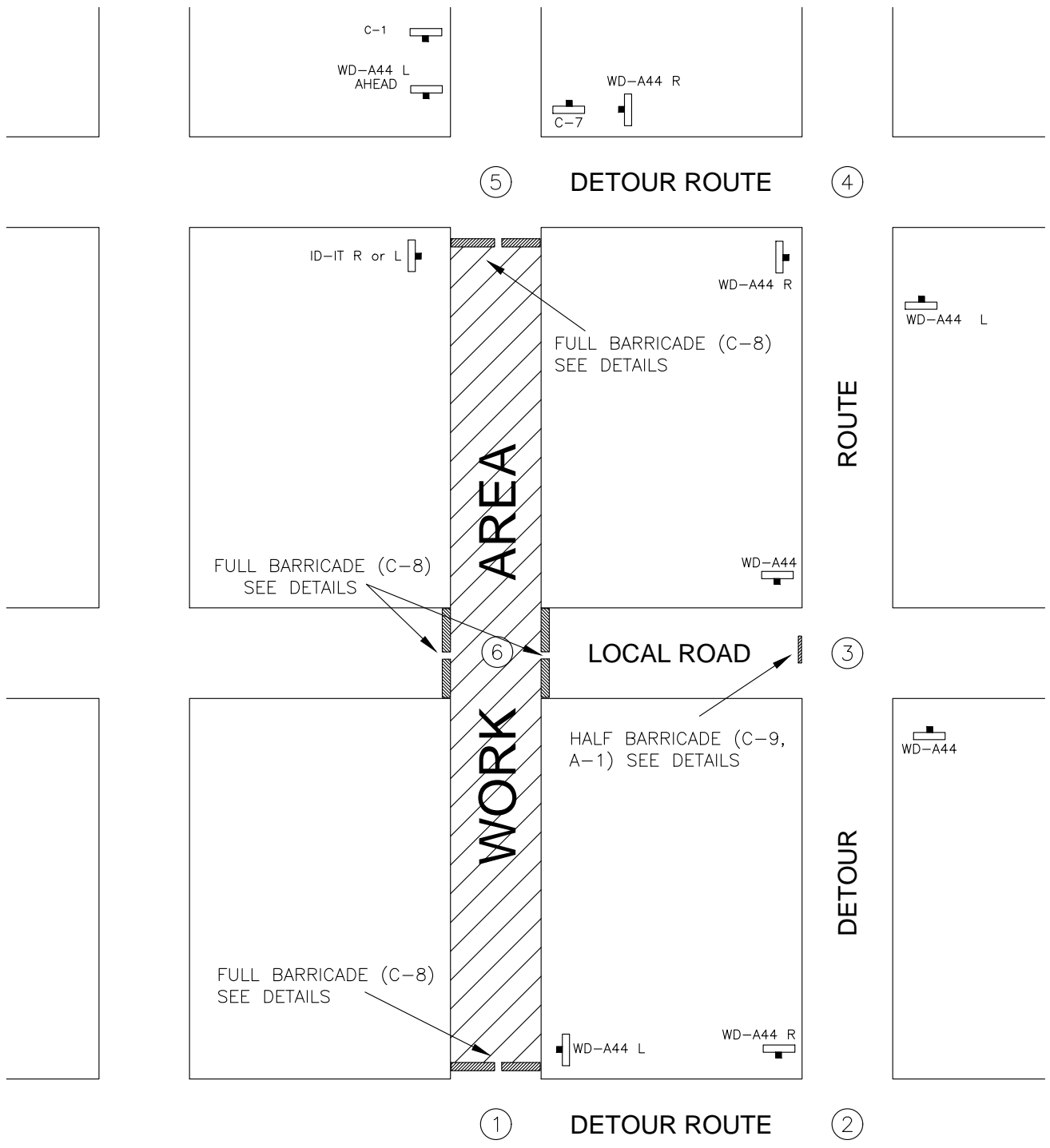
INTERSECTION #4



INTERSECTION #8

INTERSECTION #2

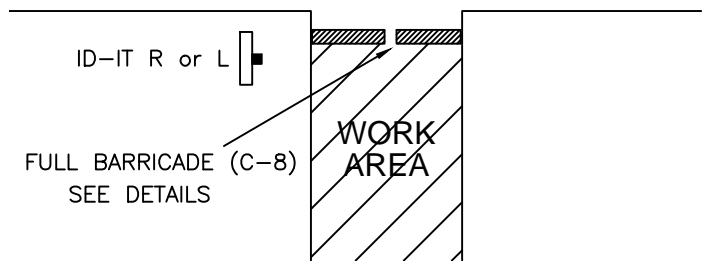
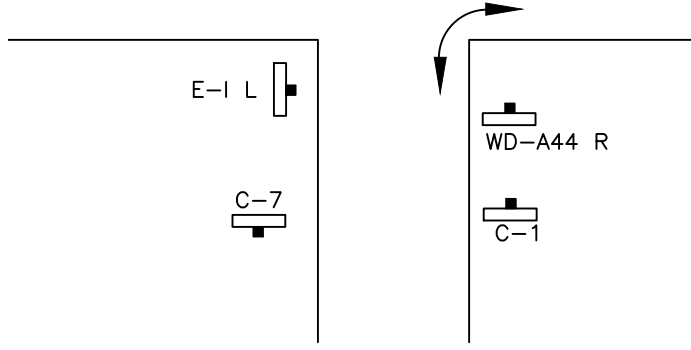
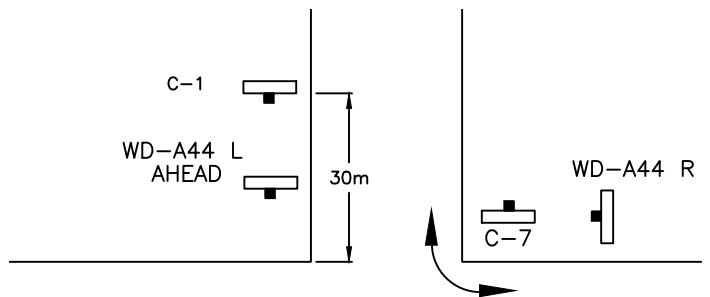
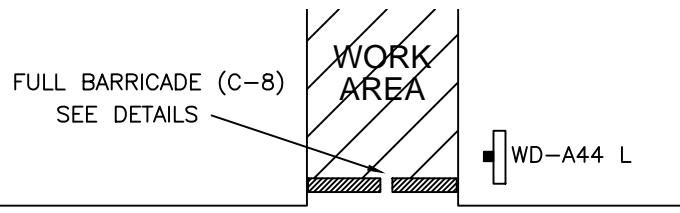
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			PUBLIC WORKS		<i>Wes Hicks</i>
			ARTERIAL INTERSECTIONS		
			DETAILS 2, 4, 6, & 8		SCALE N.T.S.
No.	DATE	REVISION	DRAWN S. NUMEDAHL	DESIGNED N. MILLER	DWG. No. 00-00-04
				DATE OCT. 2014	



NOTES

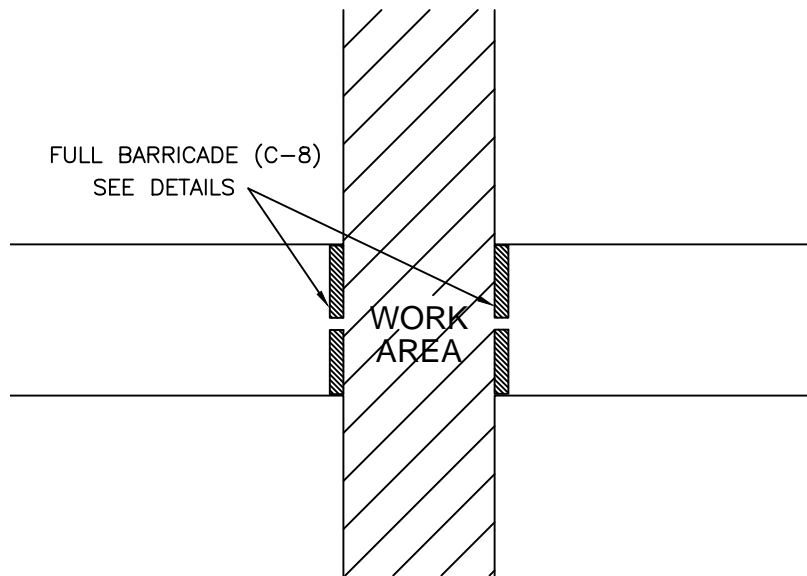
- 1. ALL BARRICADES WITH FLARES OR FLASHERS
- 2. FULL BARRICADE REQUIRES ONLY 2 BARRICADES & 2 FLASHERS
- 3. ALL SIGNS TO BE NO LESS THAN 1.2m ABOVE GRADE

			CITY OF PRINCE ALBERT PUBLIC WORKS			APPROVED <i>Wes Hicks</i>		
			COLLECTOR AND RESIDENTIAL STREET DETOUR			SCALE N.T.S.		
No.	DATE	REVISION	DRAWN S. NUMEDAHL	DESIGNED N. MILLER	DATE OCT. 2014	DWG. No. 00-00-05		



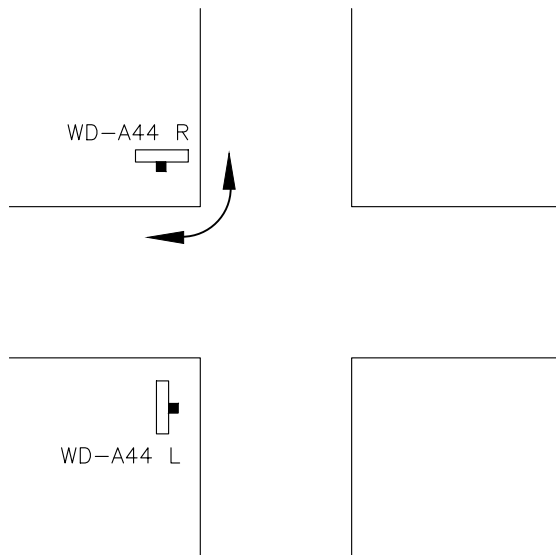
INTERSECTION #1

INTERSECTION #5

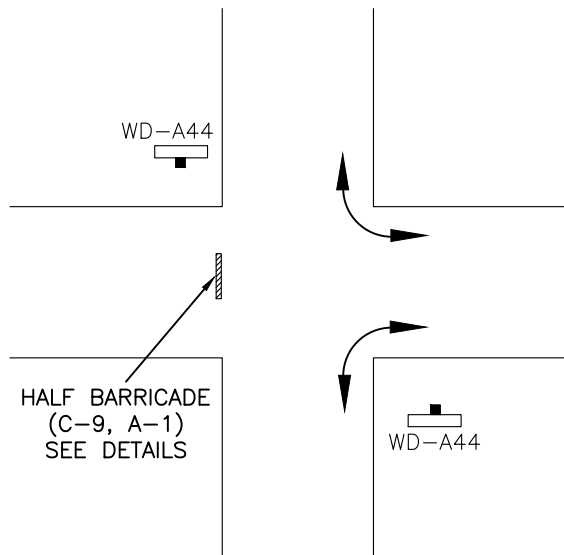


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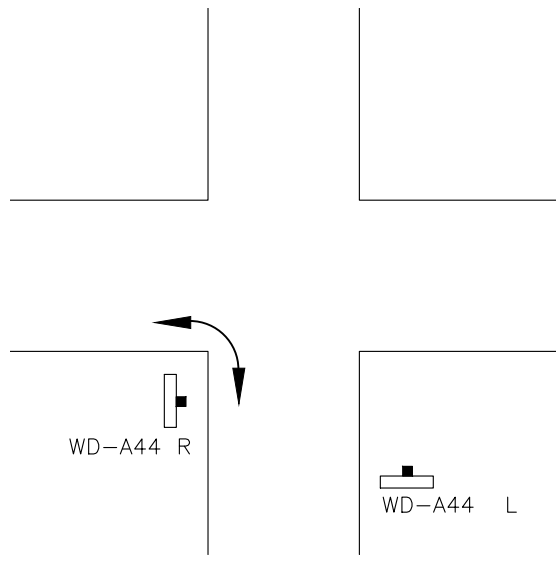
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			PUBLIC WORKS		
			COLLECTOR AND RESIDENTIAL		SCALE N.T.S.
			INTERSECTION DETAILS 1, 5, & 6		
No.	DATE	REVISION	DRAWN S. NUMEHAHL	DESIGNED N. MILLER	DATE OCT. 2014
					DWG. No. 00-00-06



INTERSECTION #2

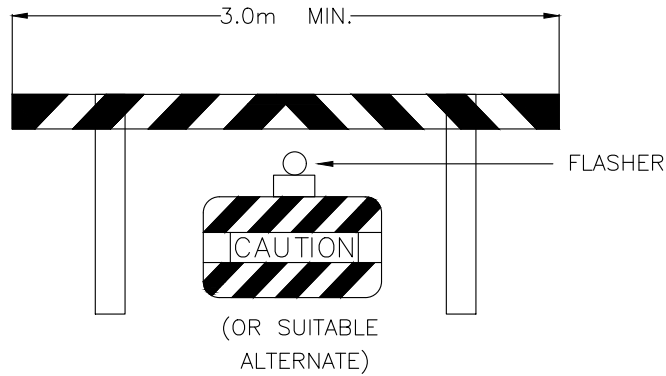
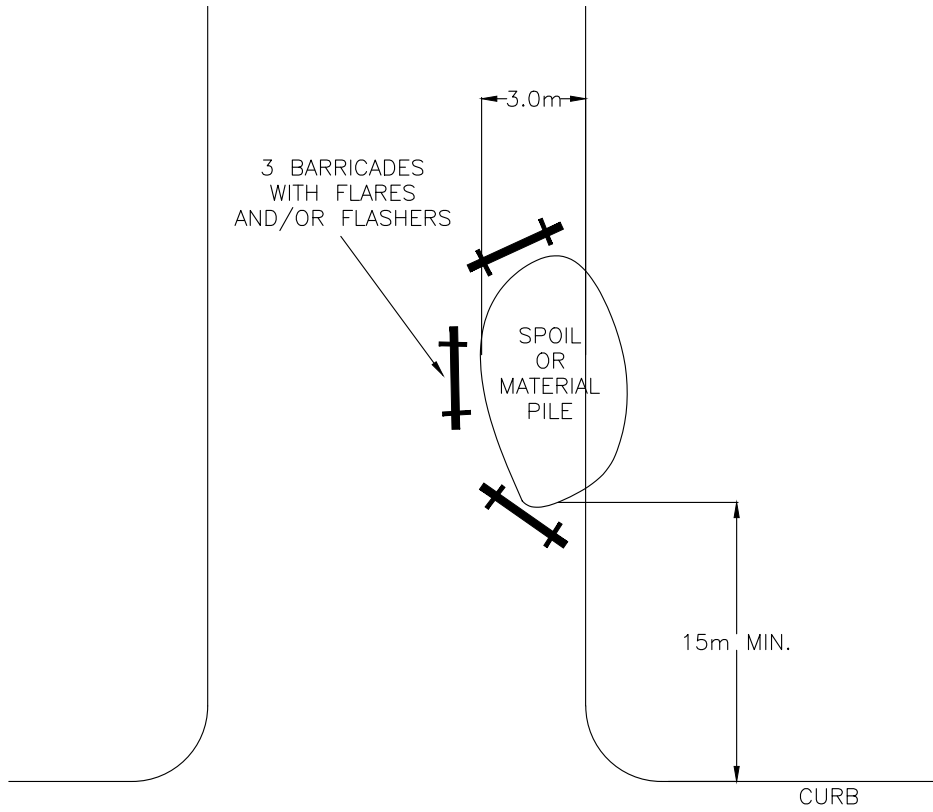


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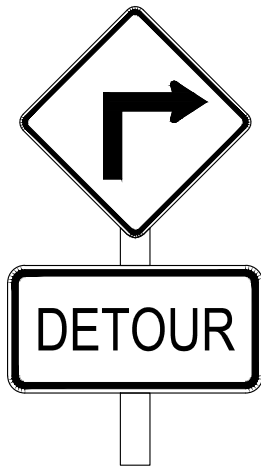
INTERSECTION #4

			CITY OF PRINCE ALBERT		APPROVED
			PUBLIC WORKS		<i>Weo Hicks</i>
			COLLECTOR AND RESIDENTIAL		
			INTERSECTION DETAILS 2, 3, & 4		SCALE N.T.S.
No.	DATE	REVISION	DRAWN S. NUMEDAHL	DESIGNED N. MILLER	DWG. No. 00-00-07
			DATE OCT. 2014		

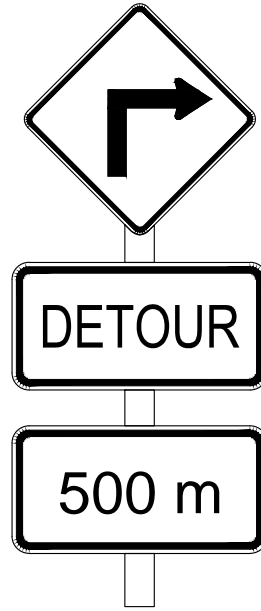


TYPICAL BARRICADE (C-16)

			CITY OF PRINCE ALBERT		APPROVED
			PUBLIC WORKS		<i>Wes Hicks</i>
			SPOIL OR MATERIAL PILE		SCALE N.T.S.
No.	DATE	REVISION	DRAWN S. NUMEDAHL	DESIGNED N. MILLER	DWG. No. 00-00-08
			DATE OCT. 2014		



WD-A44R or L



WD-A44R or L (AHEAD)



M-2 where required



ID-ITR or L
(IDENTITY)

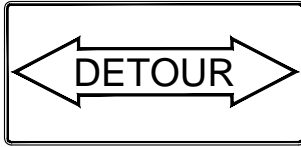
			CITY OF PRINCE ALBERT PUBLIC WORKS		APPROVED <i>Weo Hicks</i>
			TRAFFIC SIGNS - 1		SCALE N.T.S.
No.	DATE	REVISION	DRAWN S. NUMEDAHL	DESIGNED N. MILLER	DATE OCT. 2014
					DWG. No. 00-00-09



900 mm x 900 mm
C-1



600 mm x 600 mm
C-1



300 mm x 760 mm
A-1



760 mm x 1220 mm
C-9



600 mm x 760 mm
C-8

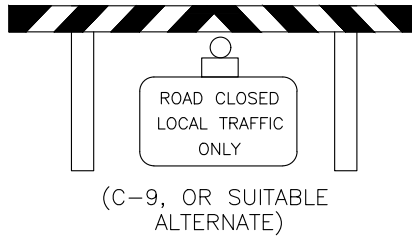
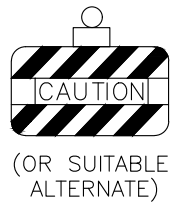
NOTES

1. SIGNS MAY BE ERECTED USING EXISTING STANDARDS WHERE AVAILABLE
2. ALL SIGNS TO BE REFLECTORIZED UNLESS USED ONLY DURING THE DAYLIGHT HOURS

			CITY OF PRINCE ALBERT		APPROVED <i>Wes Hicks</i>
			PUBLIC WORKS		
			TRAFFIC SIGNS - 2		SCALE N.T.S.
No.	DATE	REVISION	DRAWN S. NUMEDAHL	DESIGNED N. MILLER	DATE OCT. 2014
					DWG. No. 00-00-10



FULL BARRICADE (C-16)



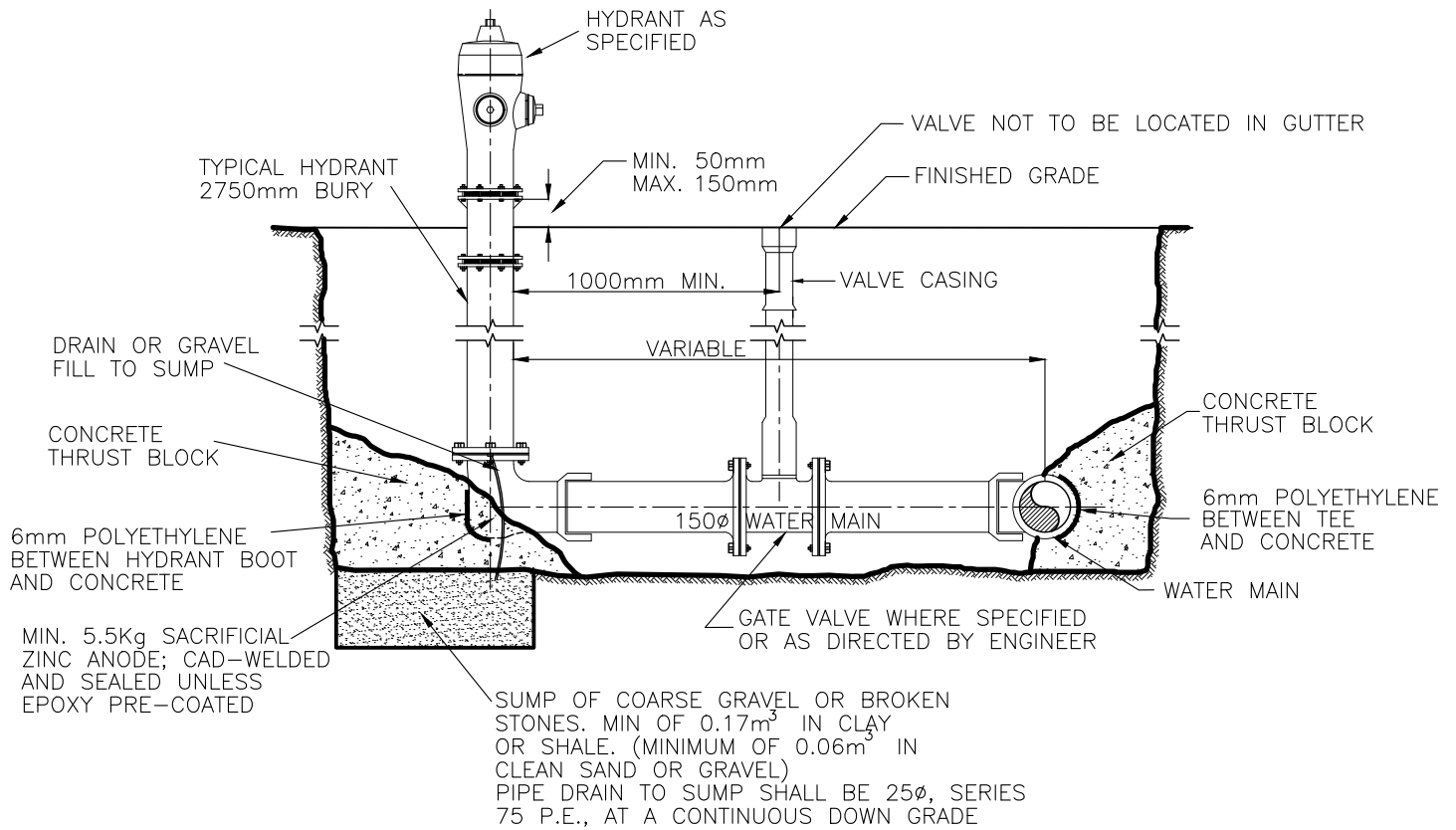
HALF BARRICADE (C-16)

NOTES

1. ALL BARRICADES TO BE REFLECTORIZED UNLESS USED ONLY DURING THE DAYLIGHT HOURS

			CITY OF PRINCE ALBERT		APPROVED
			PUBLIC WORKS		<i>Wes Hicks</i>
			BARRICADES		SCALE N.T.S.
No.	DATE	REVISION	DRAWN S. NUMEDAHL	DESIGNED N. MILLER	DATE OCT. 2014
					DWG. No. 00-00-11

SIZE OF SUMP	HYDRANT BASE	PAD
	SOIL TYPE	SIZE OF PAD
0.17m ³	SOFT CLAY	2 m ²
0.06m ³	SAND	1 m ²
0.06m ³	SAND AND GRAVEL	0.7m ²
0.06m ³	SAND AND GRAVEL CEMENTED WITH CLAY	0.5m ²
0.17m ³	SHALE	0.2m ²



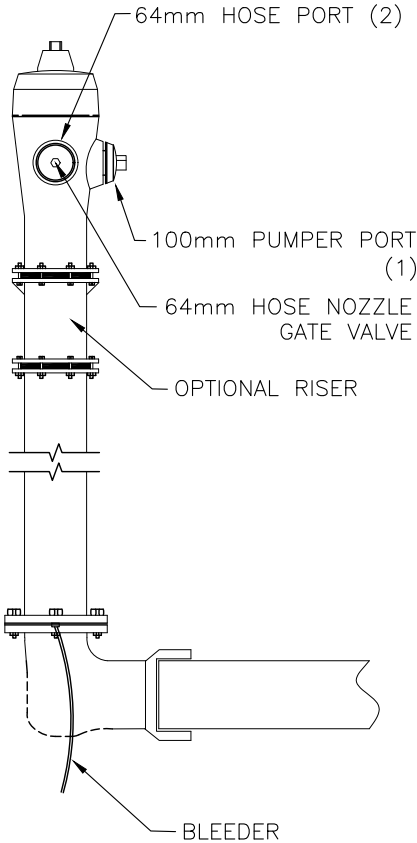
NOTES

1. HYDRANT LEAD FROM MAIN TO BE 150Ø PVC AWWA C-900 CL 140 PIPE, CSA B137.3-M86
2. THRUST BLOCKS SHALL BE OF CONCRETE OBTAINING A COMPRESSIVE STRENGTH OF AT LEAST 32MP_a @ 28 DAYS; CEMENT TO BE TYPE 50 (SULPHATE RESISTANT)
3. HYDRANTS SHALL BE MUELLER OR DARLING - CANADA VALVE THREE-WAY HYDRANT DRY BARREL. THE COLOUR OF THE HYDRANT ABOVE GROUND SHALL BE RED. NO ALTERNATES.

			CITY OF PRINCE ALBERT PUBLIC WORKS		APPROVED <i>Weo Hicks</i>
			NEW HYDRANT CONNECTION		SCALE N.T.S.
No.	DATE	REVISION	DRAWN S. NUMEDAHL	DESIGNED N. MILLER	DATE OCT. 2014
					DWG. No. 00-01-01

NOTES

WATER MAY BE TAKEN FROM THE HYDRANTS ONLY WITH THE PERMISSION OF THE ENGINEER. HYDRANTS SHALL BE OPERATED CORRECTLY AND AS SELDOM AS POSSIBLE. THE CONTRACTOR SHALL BE LIABLE FOR ALL DAMAGE TO FIRE HYDRANTS USED BY HIM. DURING ANY NON-WORKING PERIODS OR ANY TIME WHEN THE CONTRACTOR'S MEN ARE NOT IN THE VICINITY OF THE HYDRANT, IT SHALL BE RESTORED TO ITS NORMAL CONDITION FOR FIRE FIGHTING. DURING WORKING PERIODS, THE HYDRANT SHALL BE LEFT IN "FULL OPEN" POSITION. WATER FLOW SHALL BE CONTROLLED WITH THE 64mm GATE VALVE. THE CITY HAS TWO TYPES OF HYDRANTS IN OPERATION.



CONNECTIONS

THE WATERWORKS DEPARTMENT WILL SUPPLY A 64mm GATE VALVE AND A SUFFICIENT LENGTH OF 64mm FIRE HOSE. THE CONTRACTOR SHALL PLACE A DEPOSIT WITH THE WATERWORKS DEPARTMENT ON RECEIPT OF THIS GATE VALVE AND FIRE HOSE. SUCH DEPOSIT WILL BE RETURNED TO THE CONTRACTOR WHEN SAID VALVE AND FIRE HOSE ARE RETURNED IN GOOD CONDITION.

OPERATION

1. NOTIFY ENGINEER'S DEPARTMENT 24 HOURS PRIOR TO OPERATING ANY HYDRANT.
2. NOTIFY FIRE DEPARTMENT TO ADVISE THAT HYDRANT IS TEMPORARILY NOT AVAILABLE FOR THEIR USE.

PROCEDURE FOR COMPRESSION TYPE (MUELLER, McAVITY, DARLING - CANADA VALVE)

TURN TO LEFT (COUNTER CLOCKWISE) UNTIL WATER IS HEARD RISING IN THE HYDRANT. WAIT UNTIL HYDRANT IS FULL AND THEN OPEN NO MORE THAN THREE TURNS FURTHER.

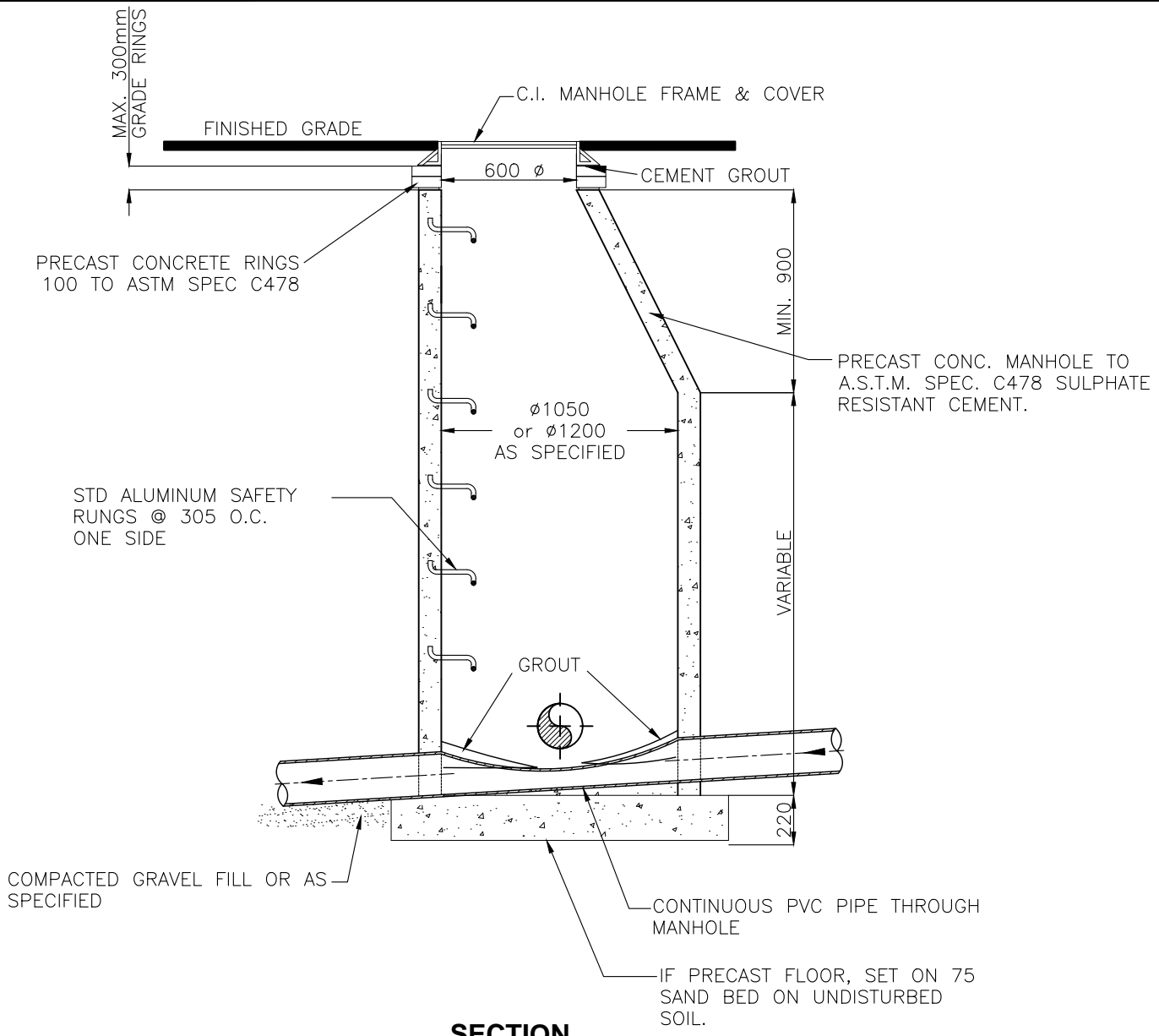
PROCEDURE FOR GATE TYPE (JOHN EAST, KERR)

TO OPEN HYDRANT, TURN AT LEAST 15 COMPLETE TURNS TO THE LEFT, USING PROPER HYDRANT KEY. MAKE SURE HYDRANT IS FULLY OPEN, WHEN PARTIALLY OPEN, HYDRANT BLEEDS UNDER PRESSURE CAUSING A WASHOUT AT ITS BASE.

CONTROL AMOUNT OF WATER BY SMALL OPERATING VALVE.

TO CLOSE HYDRANT THE LAST TURN SHOULD BE COMPLETED WITH A FAIRLY SHARP PULL TO CLOSE "BLEEDER". DO NOT USE EXCESSIVE FORCE AS THIS BENDS THE HYDRANT STEM.

			CITY OF PRINCE ALBERT PUBLIC WORKS		APPROVED <i>Wes Hicks</i>
			EXISTING HYDRANT CONNECTION		SCALE N.T.S.
No.	DATE	REVISION	DRAWN S. NUMEDAHL	DESIGNED N. MILLER	DWG. No. 00-01-02
				DATE OCT. 2014	



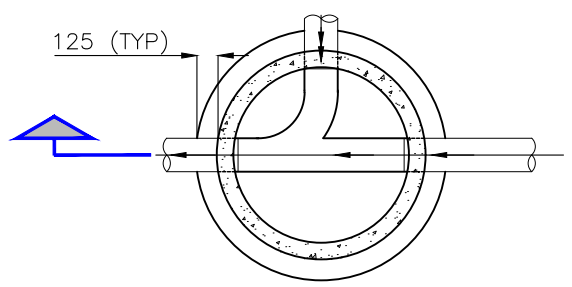
SECTION

SPECIFICATIONS

1. MANUFACTURED IN ACCORDANCE WITH ASTM SPECIFICATIONS C-478 AND ALL CURRENT REVISIONS
2. MINIMUM BARREL DIAMETER SHALL BE 1050mm FOR SANITARY SEWER & 1200mm FOR STORM SEWER
3. MINIMUM CONCRETE STRENGTH SHALL BE 32 MPa IN 28 DAYS
4. MINIMUM STEEL REQUIREMENTS SHALL BE 150x150xW2.9/W2.9 WWM
5. REINFORCING STEEL FOR BASE SHALL BE 10m REINFORCING RODS PLACED 150mm OFF-CENTER EACH WAY
6. ALL CONCRETE SHALL BE PLACED MONOLITHICALLY

NOTES

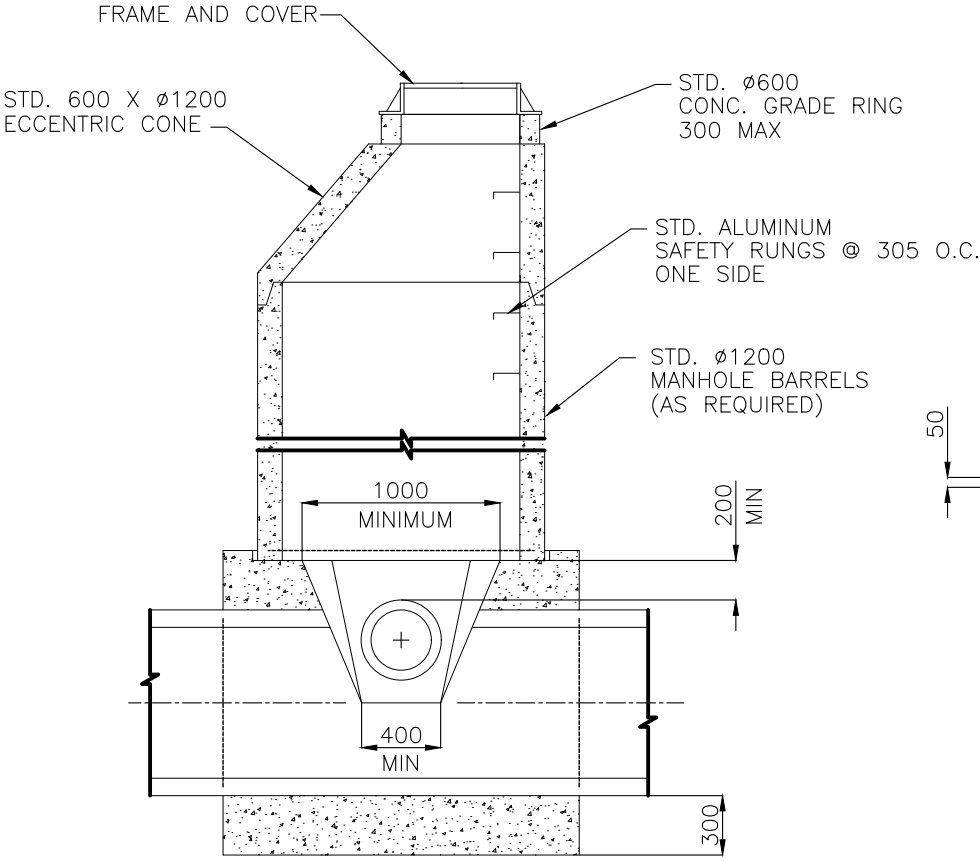
1. ALL REINFORCING BARS TO HAVE 50mm MINIMUM COVER
2. GRANULAR BACKFILL TO BE PLACE TO A MINIMUM THICKNESS OF 300mm ON ALL SIDES
3. MAXIMUM SEWER SIZE 600Ø
4. ALL BARRELS AND GRADE RINGS TO BE SEALED WITH ONE OF THE FOLLOWING: BITUMINOUS CAULKING, CEMENT MORTAR OR FIBRE GUM.



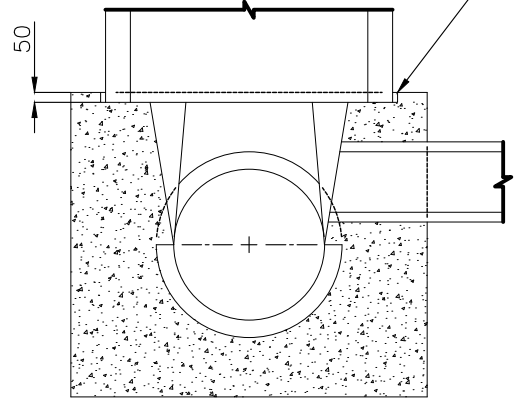
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			PUBLIC WORKS		
			STANDARD MANHOLE		SCALE N.T.S.
			PIPE SIZE < Ø600mm		
No.	DATE	REVISION	DRAWN S. NUMEDAHL	DESIGNED N. MILLER	DATE OCT. 2014
					DWG. No. 00-01-03

A	B (Max.)	C (Max.)
600	600	600
750	750	525
900	900	600

NOTE: IF C > C (MAX.) IN TABLE THEN SPECIAL DESIGN IS REQUIRED.

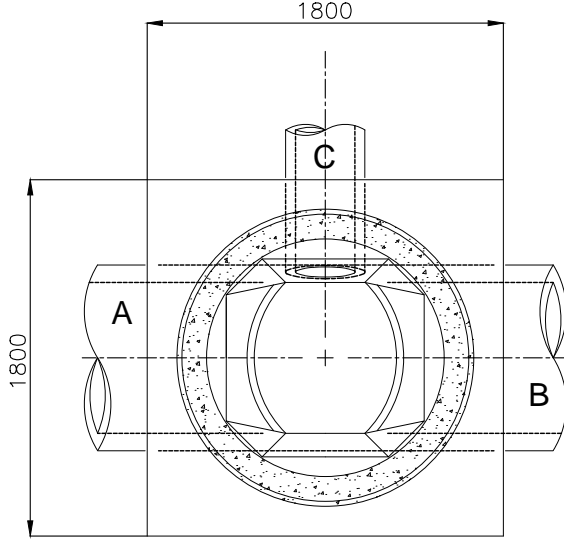


25 GROOVE ALL AROUND BARREL FILL WITH SEALANT AS SPECIFIED

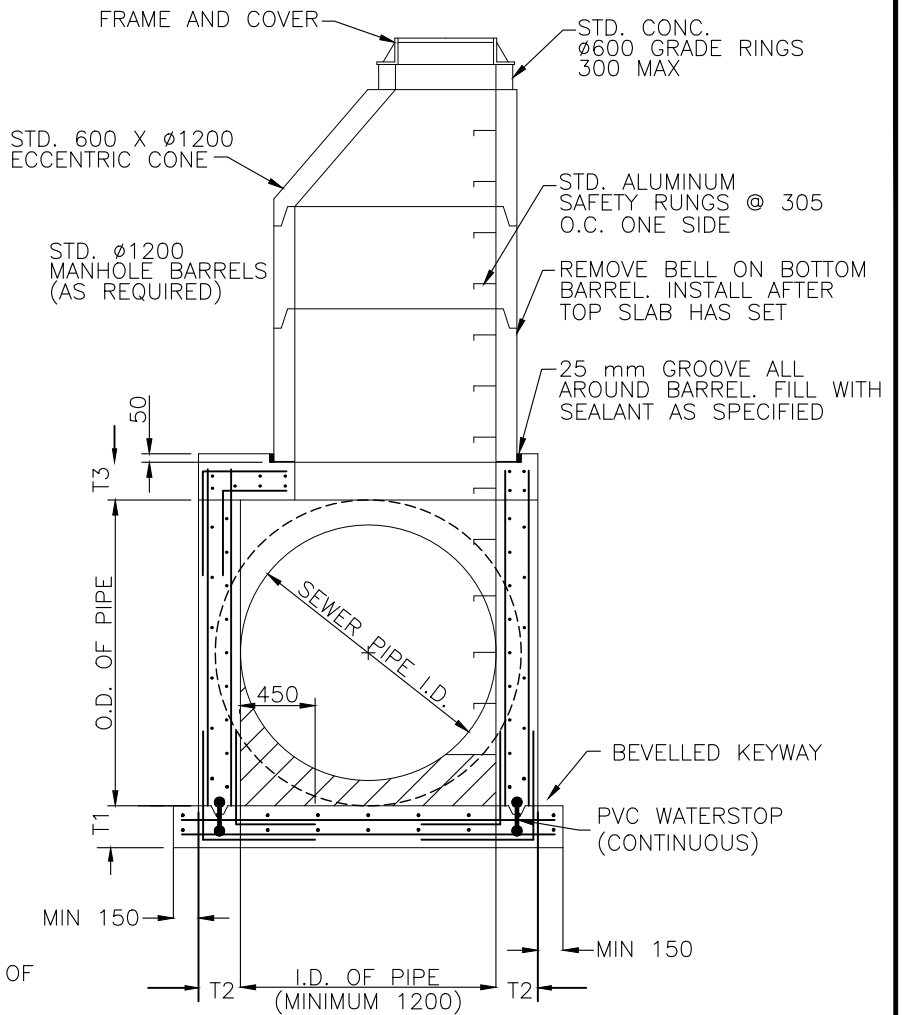
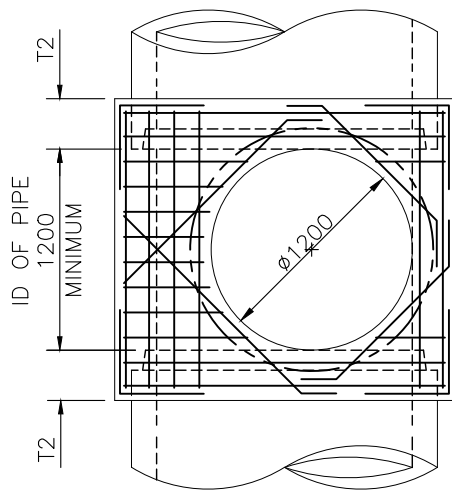


NOTES

1. ALL POURED IN PLACE CONCRETE TO BE 32MP_a SULPHATE RESISTANT
2. EXTERIOR DROP REQUIRED FOR SANITARY SEWERS WHEN INVERT OF INLET PIPE IS 750mm OR MORE ABOVE INVERT OF OUTLET PIPE
3. ALL PRECAST CONCRETE SECTIONS SHALL BE MANUFACTURED IN ACCORDANCE WITH A.S.T.M. SPECIFICATION C-478
4. ALL WALLS SHALL BE FORMED INSIDE AND OUTSIDE, AND POURED IN PLACE
5. SAFETY PLATFORM REQUIRED FOR MANHOLE DEPTHS GREATER THAN 6.0m. MAXIMUM SPACING OF PLATFORMS SHALL BE 6.0m



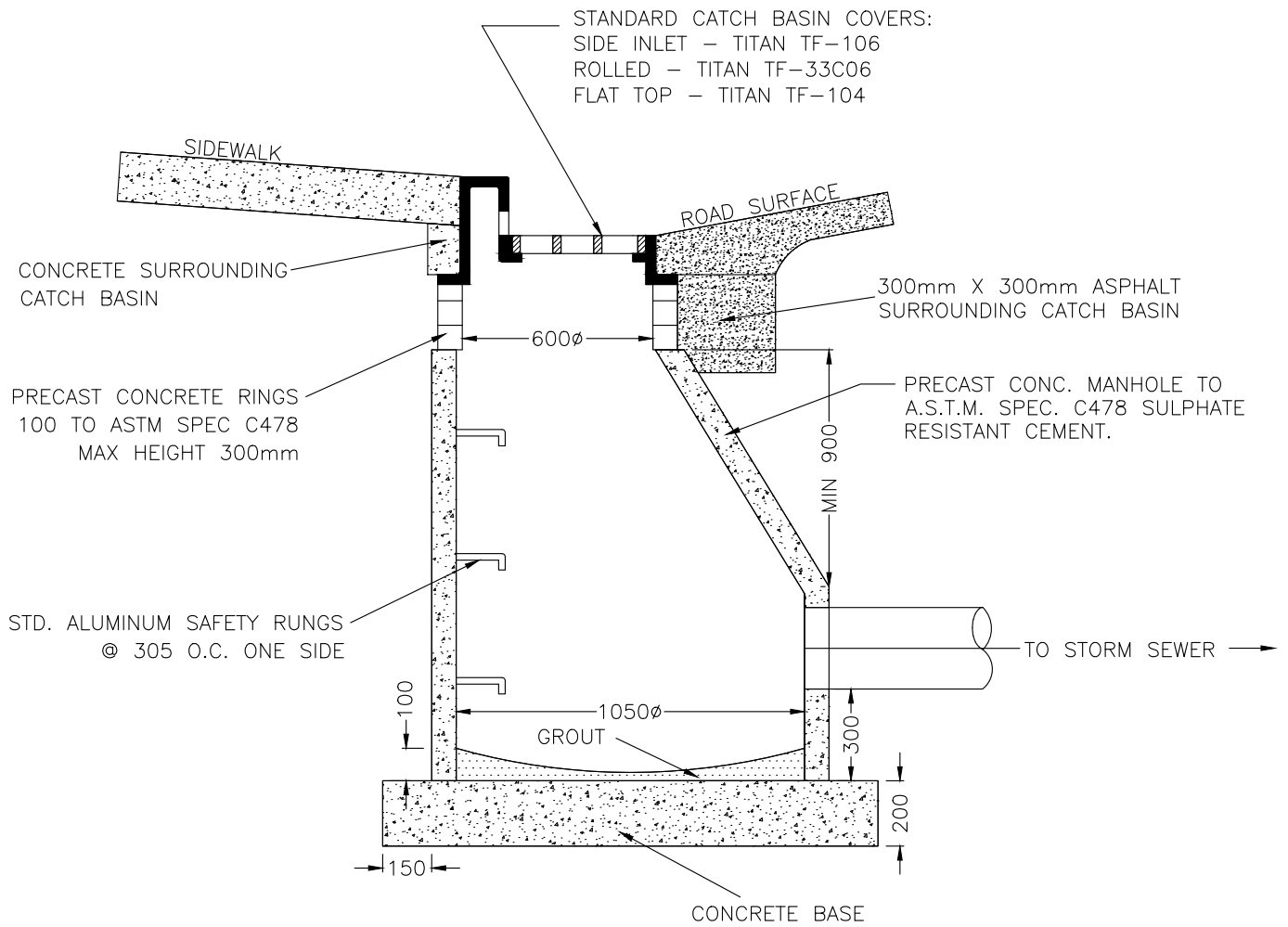
			CITY OF PRINCE ALBERT PUBLIC WORKS		APPROVED <i>Wes Hicks</i>
			STANDARD MANHOLE PIPE SIZE Ø600mm TO Ø900mm		SCALE N.T.S.
No.	DATE	REVISION	DRAWN S. NUMEDAHL	DESIGNED N. MILLER	DATE OCT. 2014
					DWG. No. 00-01-04



NOTES

1. ALL BARS 50mm CLEAR EXCEPT BOTTOM FACE OF BASE SLAB 75mm CLEAR
2. BOTTOM FACE BARS OF SLABS TO BE LAPPED INTO WALLS 450 MIN OR INSTALL DOWELS OF EQUIVALENT LENGTH AND SIZE
3. SULPHATE RESISTANT CONCRETE STRENGTH TO BE 32MPa IN 28 DAYS
4. ALL PRECAST CONCRETE SECTIONS SHALL BE MANUFACTURED IN ACCORDANCE WITH ASTM SPEC C478
5. THE CONTRACTOR SHALL SUPPLY AND PLACE ALL REINFORCING STEEL, CONCRETE, Ø1200 MANHOLE SECTIONS, RUNGS, FRAME AND COVER, SPECIFIED BY DESIGN ENGINEER
6. THE INSIDE HEIGHT OF THE CAST IN PLACE WALL SHALL BE SUCH THAT ALL SEWERS Ø600 AND LARGER ARE INCLUDED WITHIN THE CAST IN PLACE STRUCTURE
7. DIMENSIONS T1, T2, AND T3 SHALL BE DETERMINED BY THE LARGEST SEWER ENTERING THE MANHOLE
8. APPLY TWO COATS OF EMULSIFIED ASPHALT WATERPROOFING TO ALL EXTERIOR SURFACES OF THE CAST IN PLACE CONCRETE
9. SAFETY PLATFORM REQUIRED FOR MANHOLE DEPTHS GREATER THAN 6.0m. MAXIMUM SPACING OF PLATFORMS SHALL BE 6.0m
10. CAST IN PLACE MANHOLE STRUCTURE TO BE DESIGNED BY A QUALIFIED PROFESSIONAL ENGINEER. DRAWINGS TO BE SIGNED AND SEALED.

		CITY OF PRINCE ALBERT		APPROVED
		PUBLIC WORKS		<i>Wes Hicks</i>
		STANDARD MANHOLE		SCALE
		PIPE SIZE > Ø900mm		N.T.S.
No.	DATE	REVISION	DRAWN S. NUMEDAHL	DESIGNED N. MILLER
			DATE	OCT. 2014
				DWG. No.
				00-01-05



TYPICAL SECTION

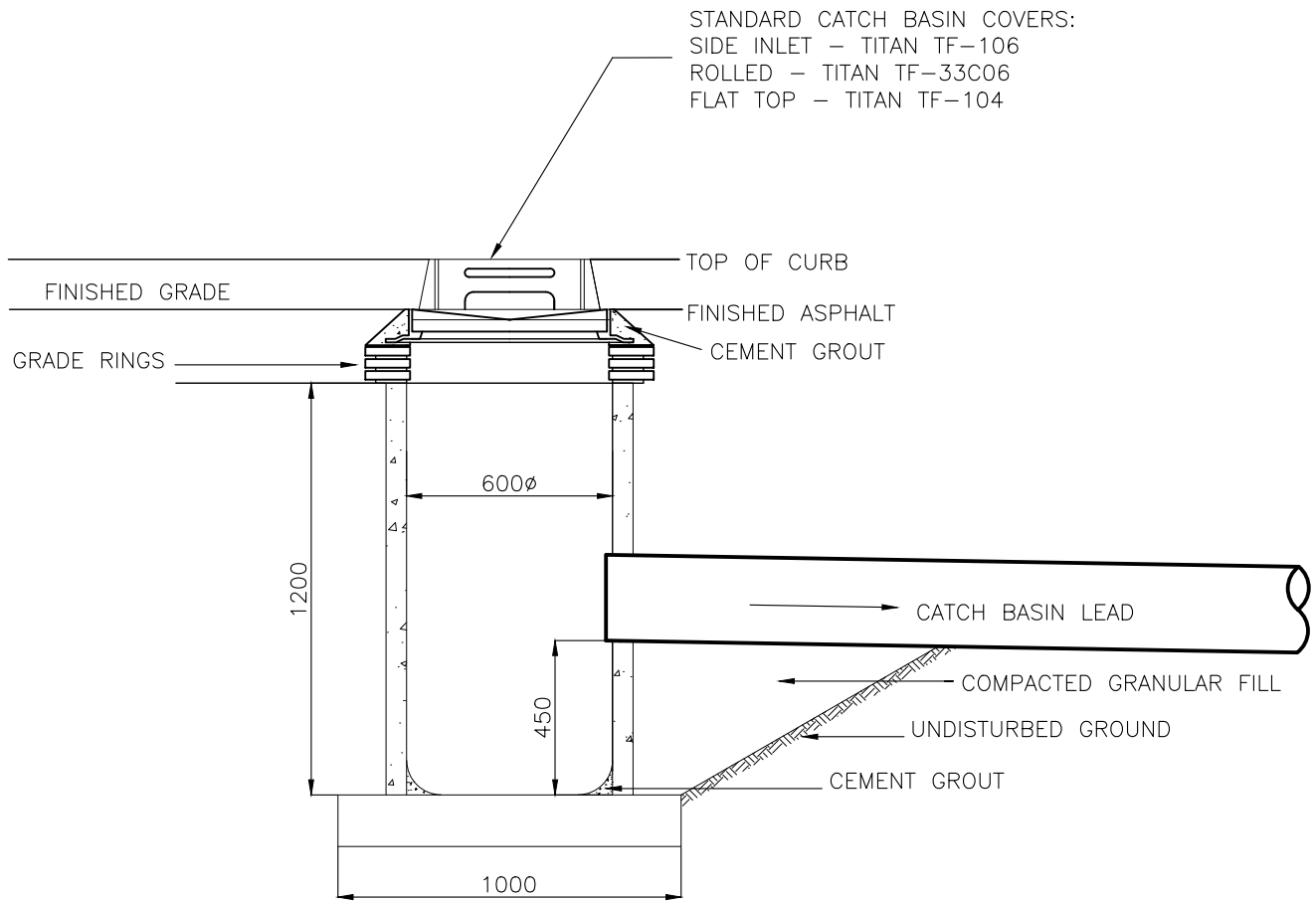
SPECIFICATIONS

1. MANUFACTURED IN ACCORDANCE WITH ASTM SPECIFICATIONS C-478 AND ALL CURRENT REVISIONS
2. MINIMUM CONCRETE STRENGTH SHALL BE 32 MPa IN 28 DAYS
3. MINIMUM STEEL REQUIREMENTS SHALL BE 150x150xW2.9/W2.9 WWM
4. REINFORCING STEEL FOR BASE SHALL BE 10m REINFORCING RODS PLACED 150mm OFF-CENTER EACH WAY
5. ALL CONCRETE SHALL BE PLACED MONOLITHICALLY

NOTES

1. ALL REINFORCING BARS TO HAVE 50mm MINIMUM COVER
2. GRANULAR BACKFILL TO BE PLACE TO A MINIMUM THICKNESS OF 300mm ON ALL SIDES
3. MAXIMUM SEWER SIZE 600 ϕ
4. ALL BARRELS AND GRADE RINGS TO BE SEALED WITH ONE OF THE FOLLOWING: BITUMINOUS CAULKING, CEMENT MORTAR OR FIBRE GUM.

			CITY OF PRINCE ALBERT PUBLIC WORKS		APPROVED <i>Weo Hicks</i>
			COMBINED MANHOLE / CATCH BASIN		SCALE N.T.S.
No.	DATE	REVISION	DRAWN S. NUMEHAHL	DESIGNED N. MILLER	DATE OCT. 2014
					DWG. No. 00-01-06



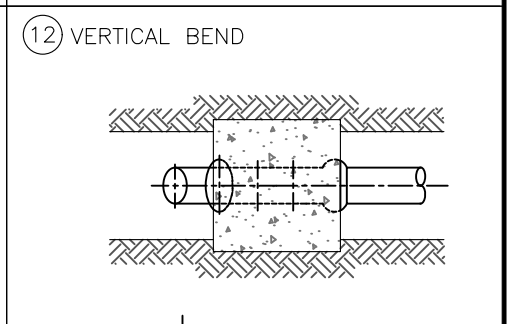
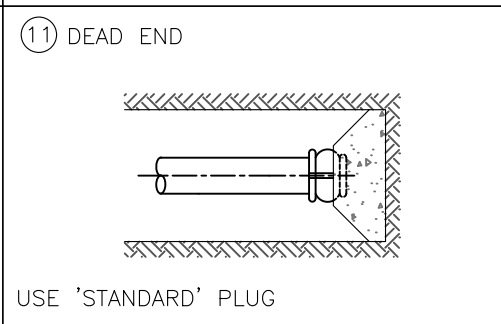
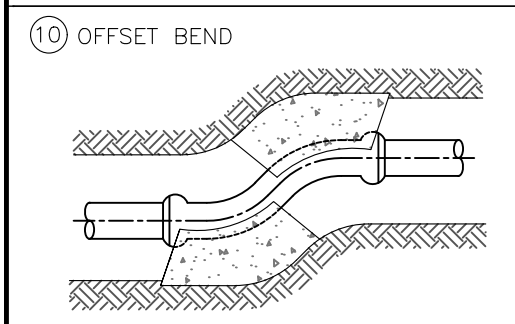
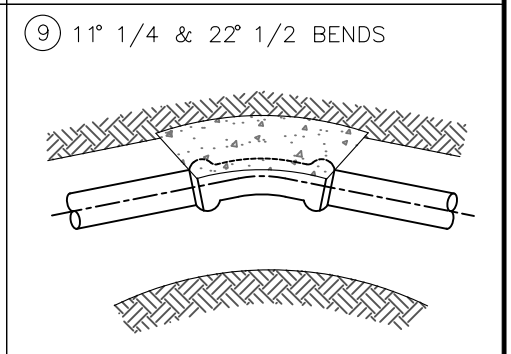
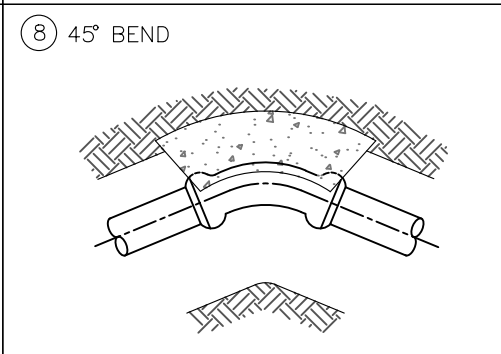
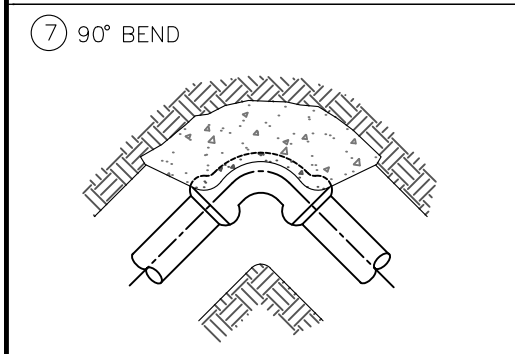
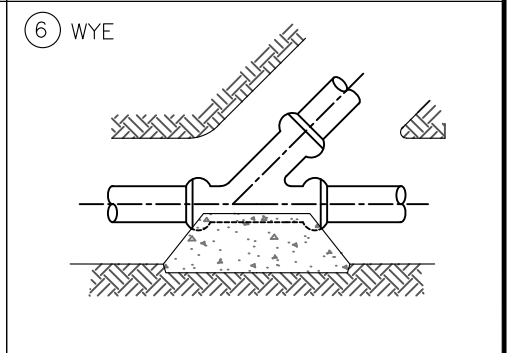
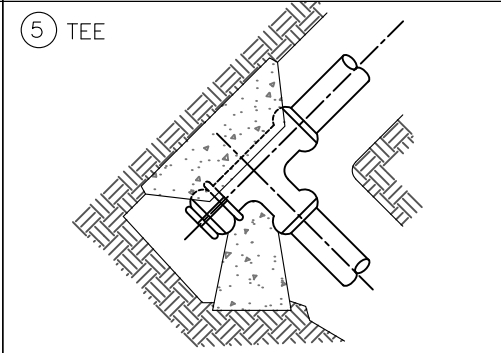
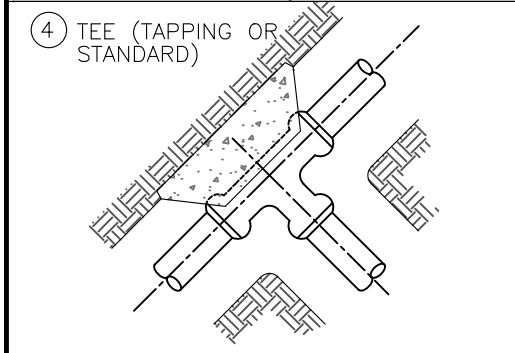
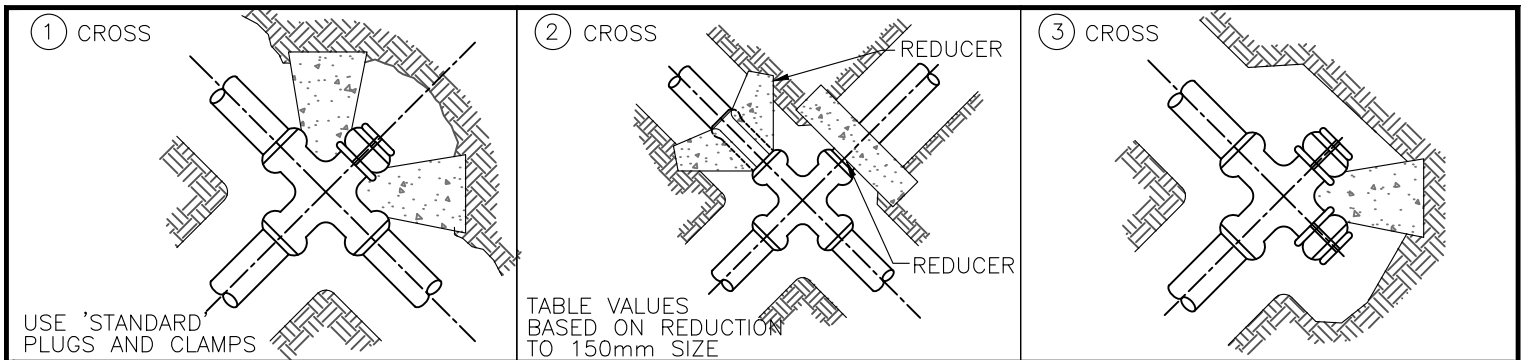
SPECIFICATIONS

1. MANUFACTURED IN ACCORDANCE WITH ASTM SPECIFICATIONS C-478 AND ALL CURRENT REVISIONS
2. MINIMUM CONCRETE STRENGTH SHALL BE 32 MPa IN 28 DAYS
3. MINIMUM STEEL REQUIREMENTS SHALL BE 150x150xW2.9/W2.9 WWM
4. REINFORCING STEEL FOR BASE SHALL BE 10m REINFORCING RODS PLACED 150mm OFF-CENTER EACH WAY
5. ALL CONCRETE SHALL BE PLACED MONOLITHICALLY

NOTES

1. ALL REINFORCING BARS TO HAVE 50mm MINIMUM COVER
2. GRANULAR BACKFILL TO BE PLACE TO A MINIMUM THICKNESS OF 300mm ON ALL SIDES
3. MAXIMUM SEWER SIZE 300 ϕ
4. ALL BARRELS AND GRADE RINGS TO BE SEALED WITH ONE OF THE FOLLOWING: BITUMINOUS CAULKING, CEMENT MORTAR OR FIBRE GUM.

			CITY OF PRINCE ALBERT PUBLIC WORKS		APPROVED <i>Weo Hicks</i>
			STANDARD CATCH BASIN		SCALE N.T.S.
No.	DATE	REVISION	DRAWN S. NUMEDAHL	DESIGNED N. MILLER	DATE OCT. 2014
					DWG. No. 00-01-07

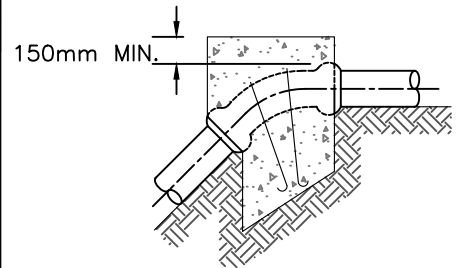


NOTES

1. HYDRAULIC PRESSURE 1.38MPa
SOIL BEARING 100kPa MEDIUM SOFT CLAY
2. CONCRETE SHALL BE SULPHATE RESISTANT
3. TEMPORARY BLOCKING MUST BE APPROVED BY THE ENGINEER
4. 2 PLY OF 0.15mm POLYETHYLENE SHALL BE PLACED BETWEEN PIPE AND CONCRETE
5. CONCRETE SHALL BE 32MPa AT 28 DAY STRENGTH. MAXIMUM SLUMP = 75mm
6. IN DISTURBED GROUND (COMPACTED BACKFILL) INCREASE BEARING AREA BY 50%

BEARING AREA OF BLOCKS

		CONCRETE AREAS IN SQ. METERS						
		PIPE SIZE	100	150	200	250	300	400
TYPE OF FITTING	1	1.4,11	0.2	0.4	0.7	1.0	1.4	1.9
	2	3.5,7	0.3	0.5	0.9	1.4	2.0	2.7
	3					0.5	0.7	1.6
	4	6.8,12	0.2	0.3	0.5	0.6	1.1	1.4
	5	9	0.1	0.2	0.3	0.4	0.6	0.7
	6	10	0.3	0.6	1.0	1.2	2.2	2.9



No.	DATE	REVISION

CITY OF PRINCE ALBERT
PUBLIC WORKS

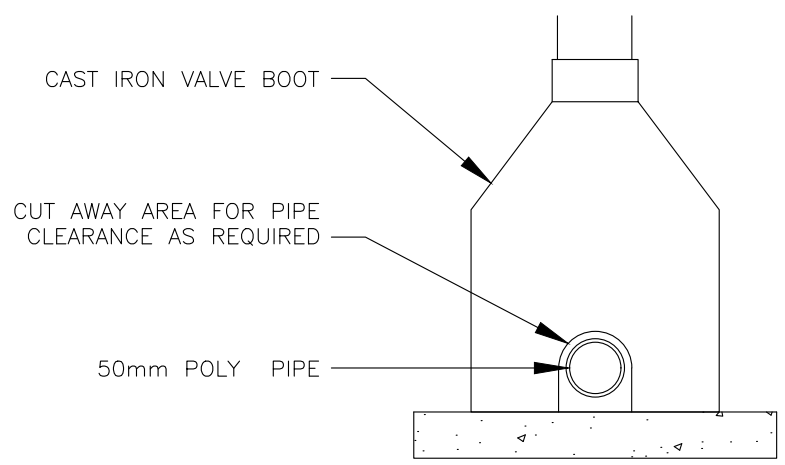
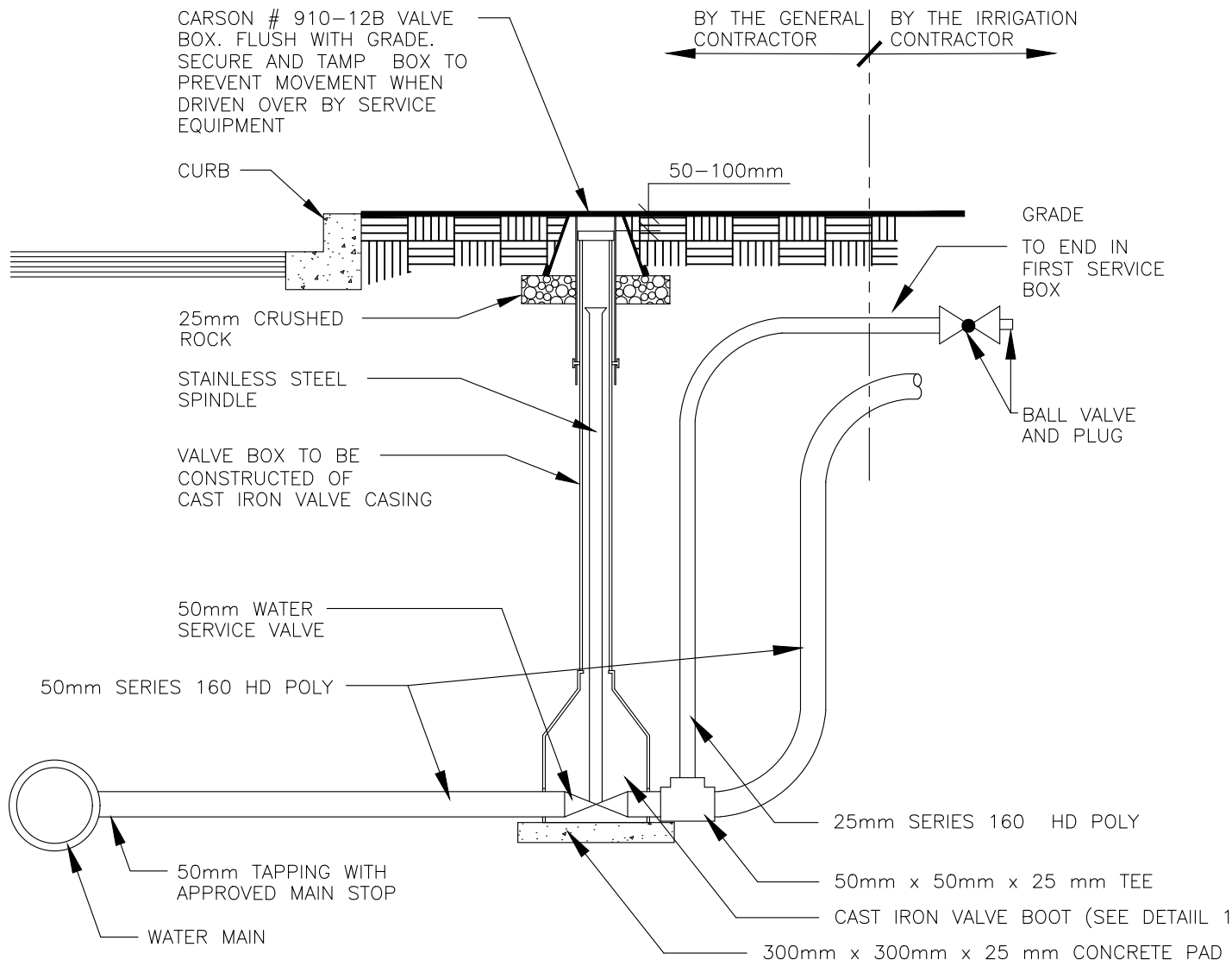
THRUST BLOCKING DETAILS

DRAWN S. NUMEDAHL | DESIGNED N. MILLER | DATE OCT. 2014

APPROVED
Weo Hicks

SCALE N.T.S.

DWG. No. 00-01-08

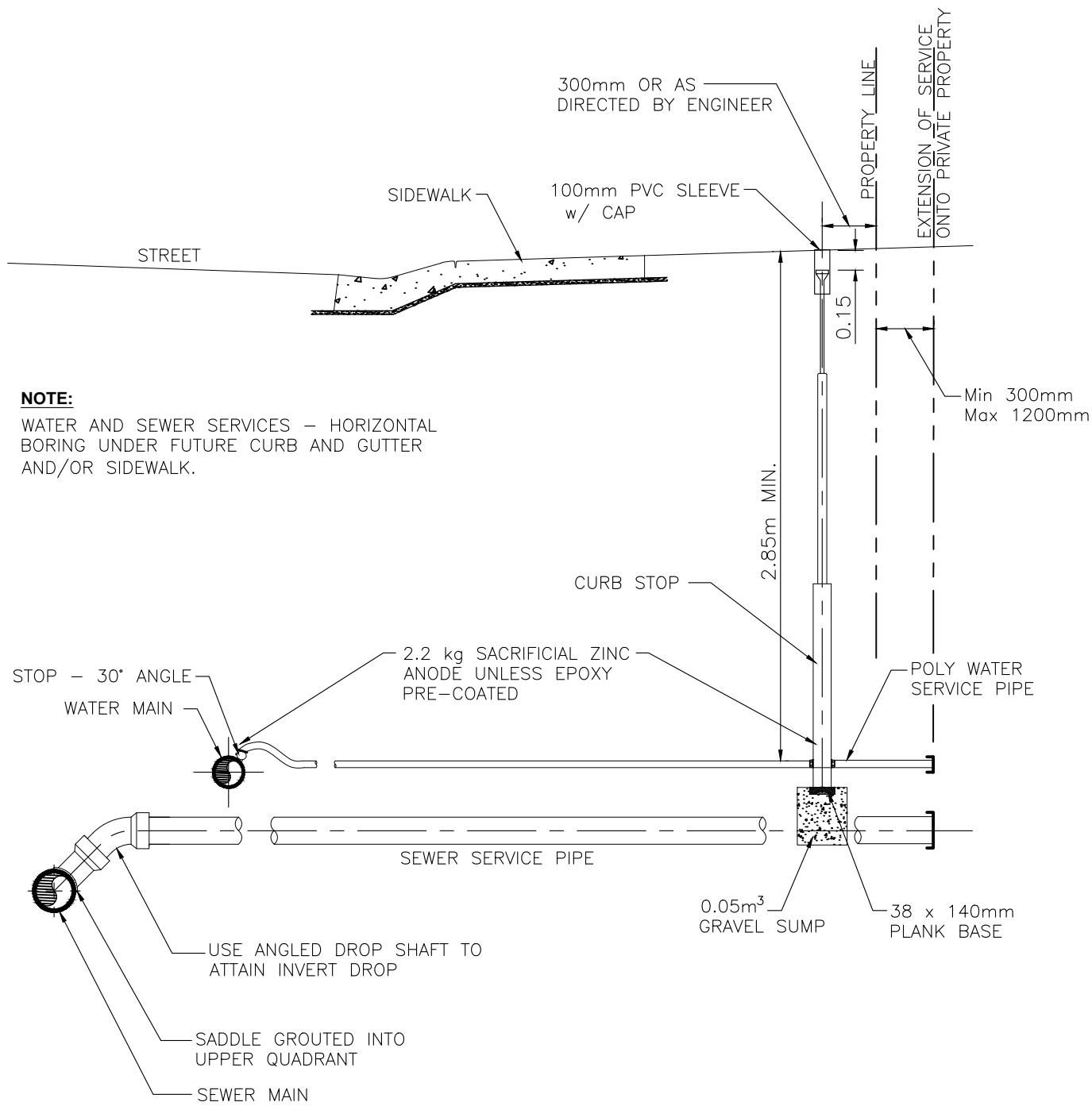


DETAIL 1

NOTES

1. ALL PIPE LENGTHS DETERMINED IN FIELD
2. ALL BRASS FITTINGS TO BE CONNECTED TO 2.2Kg ZINC ANODES
3. ALL PIPE RESTRAINERS TO BE CONNECTED TO 2.2Kg ZINC ANODES

			CITY OF PRINCE ALBERT		APPROVED <i>Weo Hicks</i>
			PUBLIC WORKS		
			TYPICAL IRRIGATION CONNECTION		SCALE N.T.S
			50mm SERVICE		
No.	DATE	REVISION	DRAWN S. NUMEDAHL	DESIGNED N. MILLER	DATE OCT. 2014
					DWG. No. 00-01-09



NOTES:

1. MINIMUM GRADE FOR 100mm SEWER PIPE IS 2.00%.
MINIMUM GRADE FOR 150mm SEWER PIPE IS 1.00%.
2. ON PRE-SERVICED CONNECTIONS, END OF SEWER TO HAVE END PLUG INSTALLED AND WATER LINES SEALED WITH P.V.C. TAPE.
3. WHEN FACING BUILDING – SERVICES:

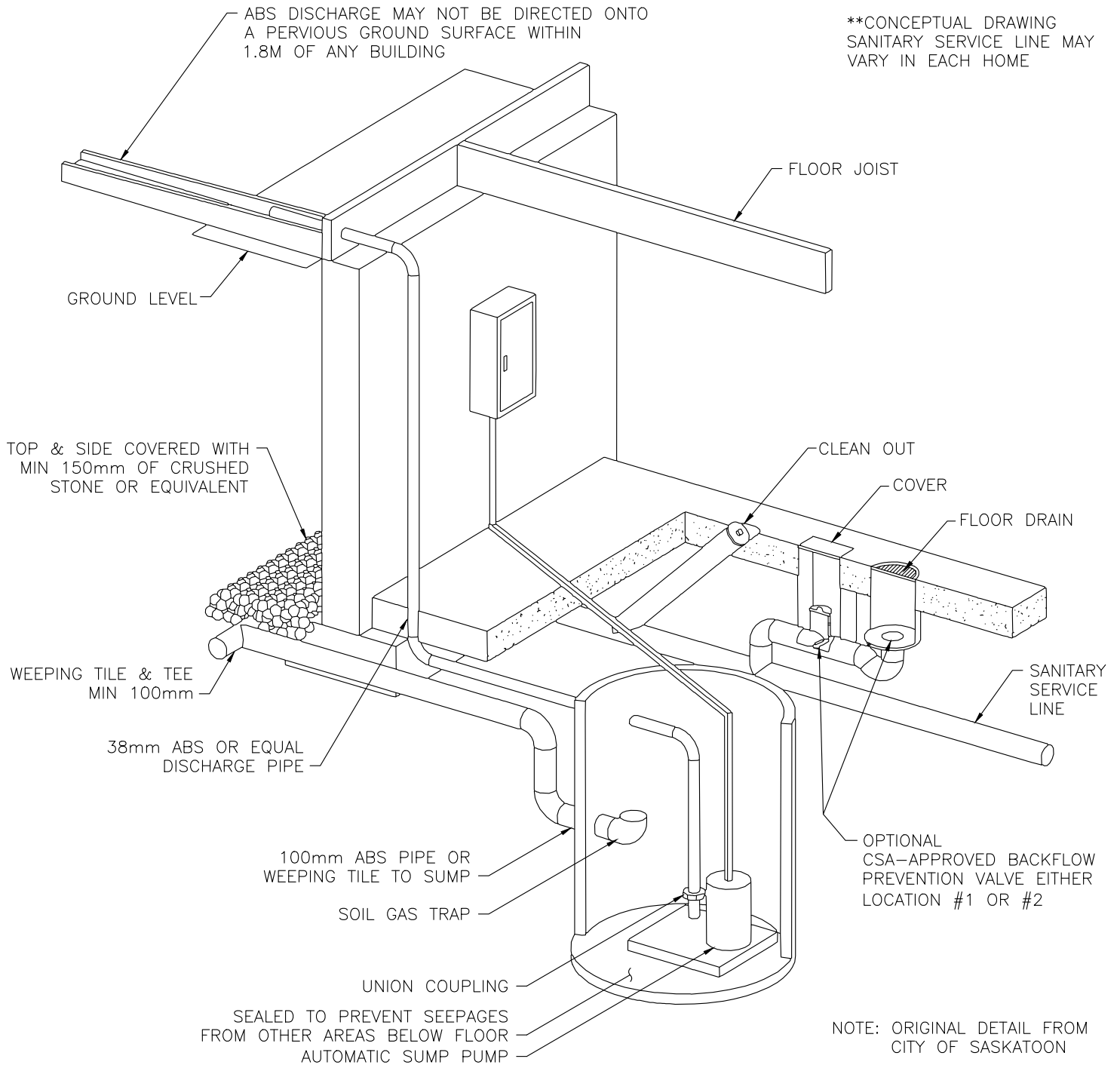
LEFT	CENTRE	RIGHT
STORM	SANITARY	WATER

			CITY OF PRINCE ALBERT		APPROVED
			PUBLIC WORKS		<i>Wes Hicks</i>
			TYPICAL SEWER AND WATER CONNECTION		SCALE N.T.S.
No.	DATE	REVISION	DRAWN S. NUMEDAHL	DESIGNED N. MILLER	DATE OCT. 2014
					DWG. No. 00-01-10

PERMANENT CHANGES TO PLUMBING REQUIRES A PLUMBING PERMIT

ABS DISCHARGE MAY NOT BE DIRECTED ONTO A PERVIOUS GROUND SURFACE WITHIN 1.8M OF ANY BUILDING

**CONCEPTUAL DRAWING
SANITARY SERVICE LINE MAY VARY IN EACH HOME



NOTE: ORIGINAL DETAIL FROM CITY OF SASKATOON

- ENSURE THAT THE SUMP IS A MINIMUM 1m FROM THE FOOTINGS.
- PROVISIONS REQUIRED TO PREVENT SOIL GAS FROM ENTERING THE DWELLING FROM THE SUMP AND WEeping TILE.

CODE REFERENCE ON SUMP:
NATIONAL BUILDING CODE SECTION 9.14.2
FOUNDATION DRAINAGE
9.14.5.2 SUMP PITS

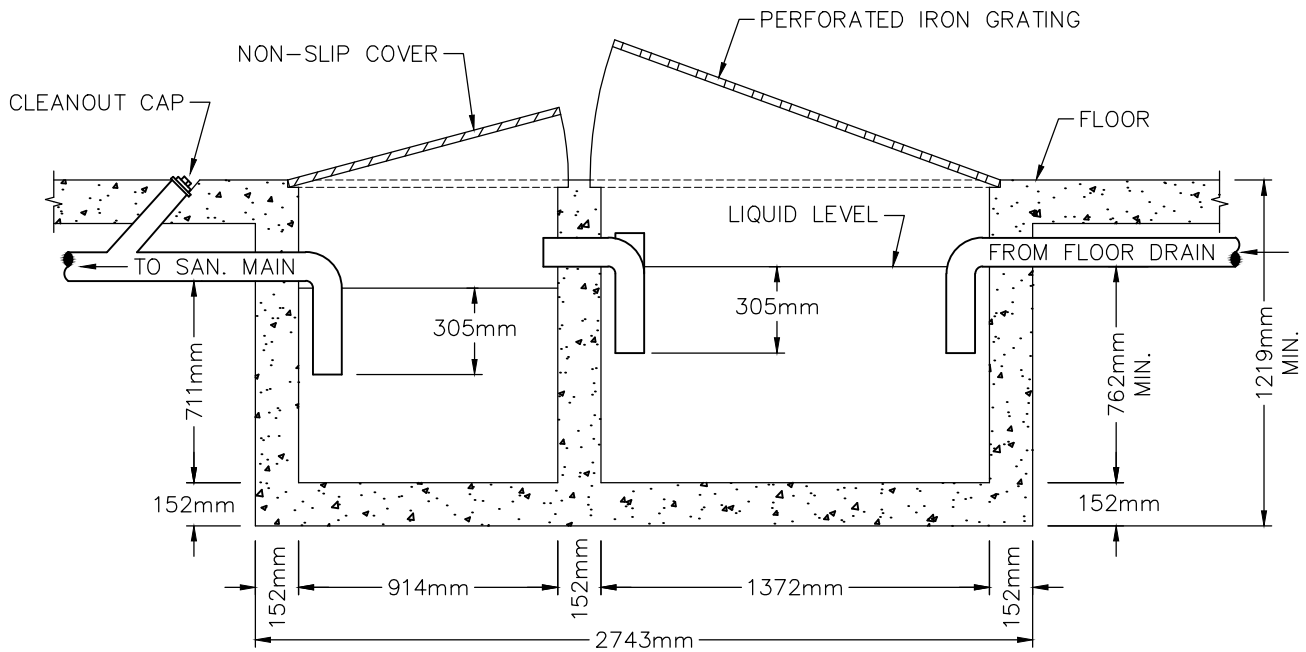
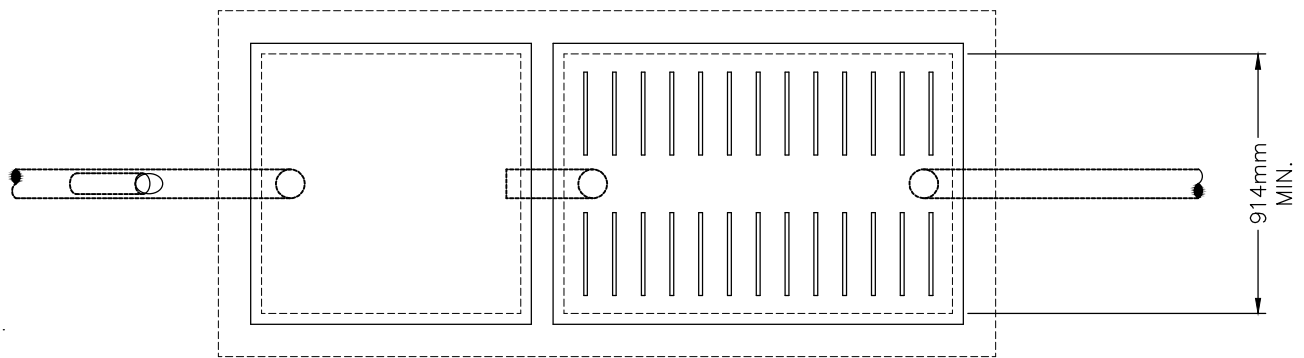
SUMP PIT MAY BE CONSTRUCTED OF:

- A) CONCRETE
- B) CORROSION RESISTANT STEEL
- C) PLASTIC

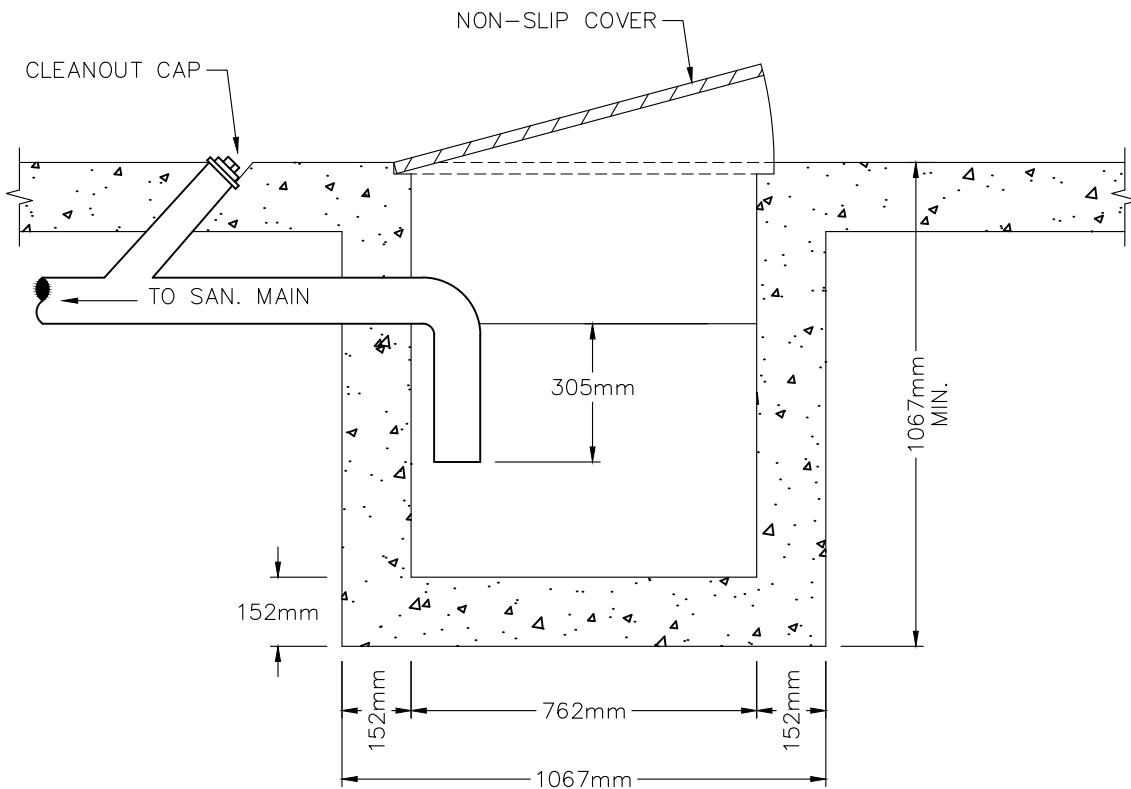
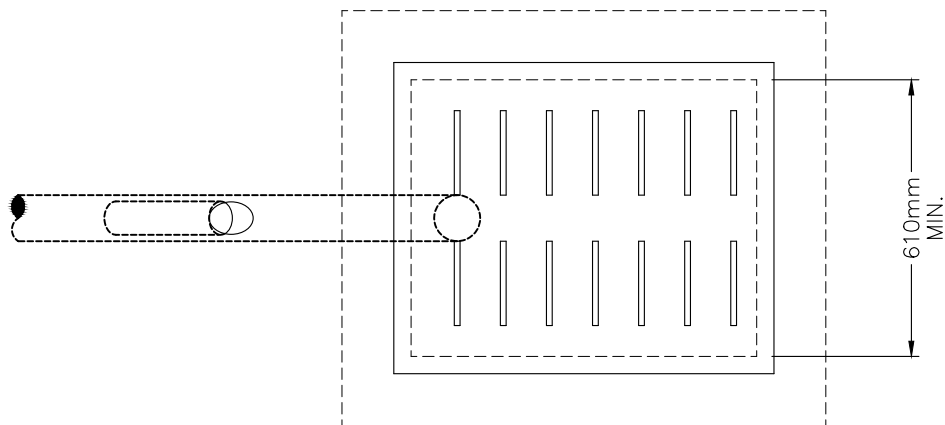
WHERE A SUMP PIT IS PROVIDED IT SHALL BE:

- A) NOT LESS THAN 600mm DEEP
- B) NOT LESS THAN 0.25sq.m IN AREA, AND
- C) PROVIDED WITH A COVER

			CITY OF PRINCE ALBERT PUBLIC WORKS		APPROVED <i>Weo Hicks</i>
			TYPICAL WEeping TILE CONNECTION		SCALE N.T.S.
1	JAN 2017	REVISED TO ADD TYPICAL SUMP			DWG. No. 00-01-11
No.	DATE	REVISION	DRAWN S. NUMEDAHL	DESIGNED N. MILLER	DATE OCT. 2014

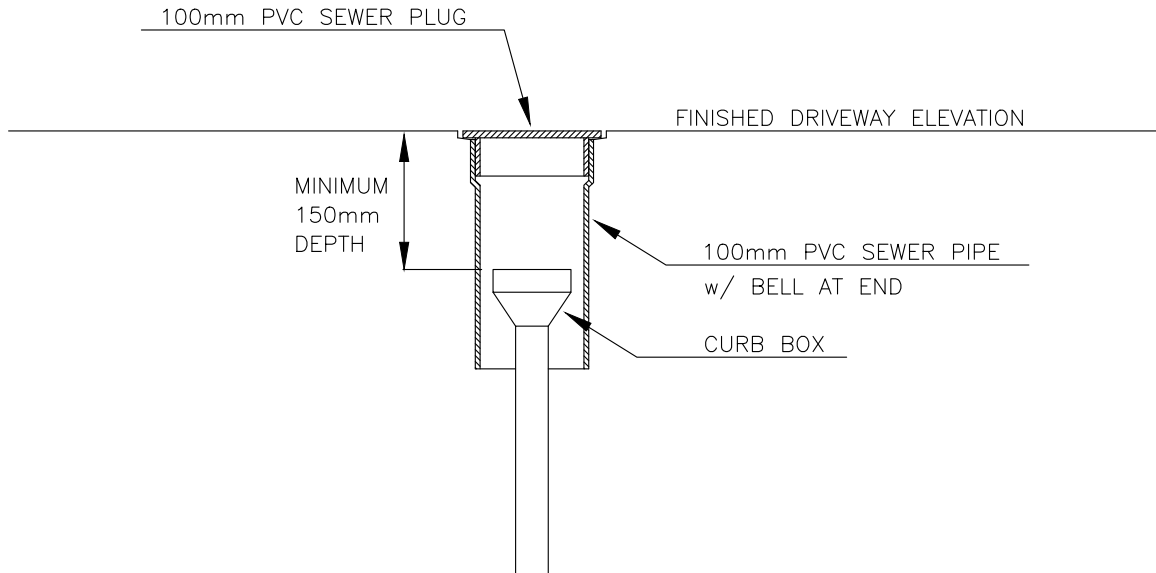


			CITY OF PRINCE ALBERT PUBLIC WORKS		APPROVED <i>Weo Hicks</i>
			GARAGE INTERCEPTOR		SCALE N.T.S.
1	4/3/2020	UPDATED GRATING DETAILS	DRAWN S. NUMEHAHL	DESIGNED N. MILLER	DWG. No. 00-01-12
No.	DATE	REVISION	DATE OCT. 2014		

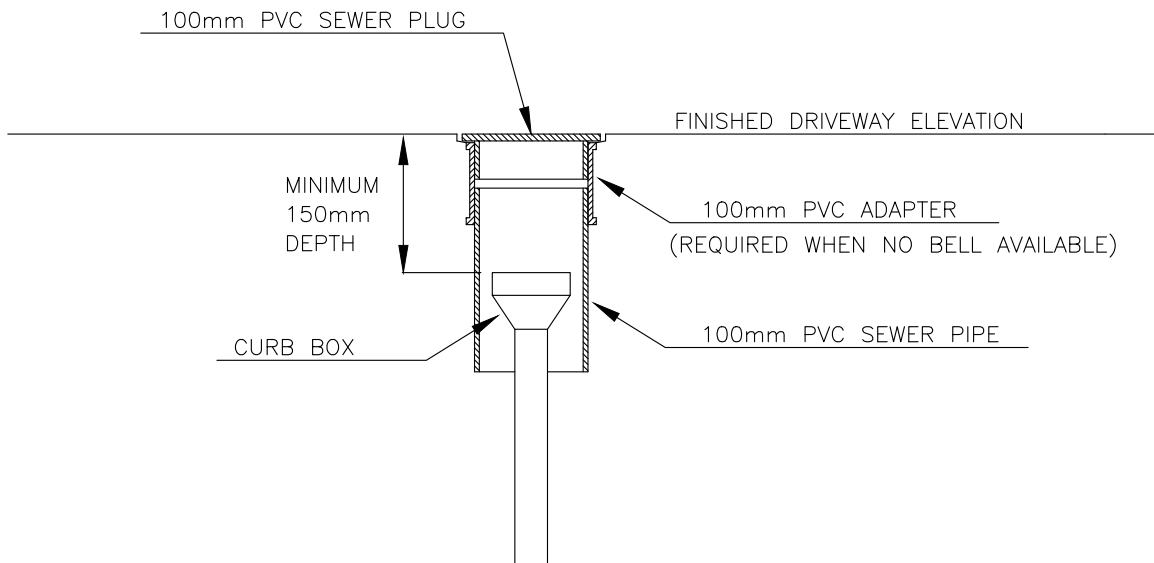


			CITY OF PRINCE ALBERT PUBLIC WORKS		APPROVED <i>Wes Hicks</i>
			INTERIOR CATCH BASIN & TRAP		SCALE N.T.S.
No.	DATE	REVISION	DRAWN S. NUMEDAHL	DESIGNED N. MILLER	DATE OCT. 2014
					DWG. No. 00-01-13

SLEEVE WHEN BELL END IS AVAILABLE



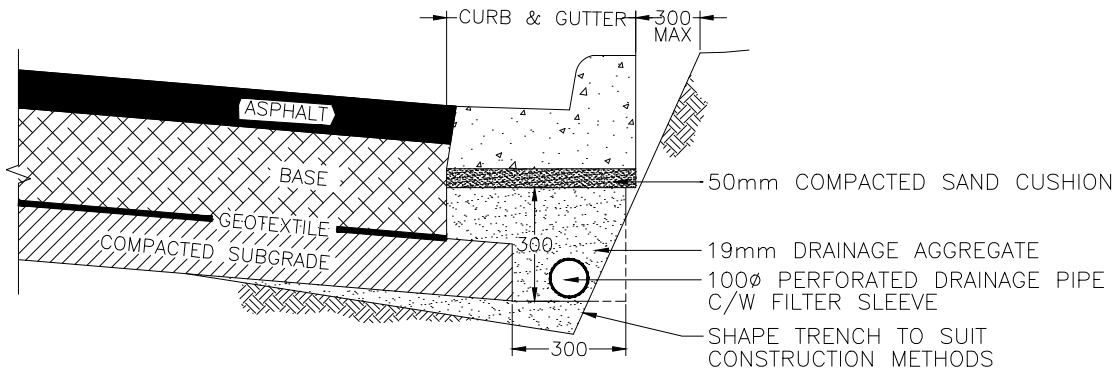
SLEEVE WHEN ADAPTOR IS USED



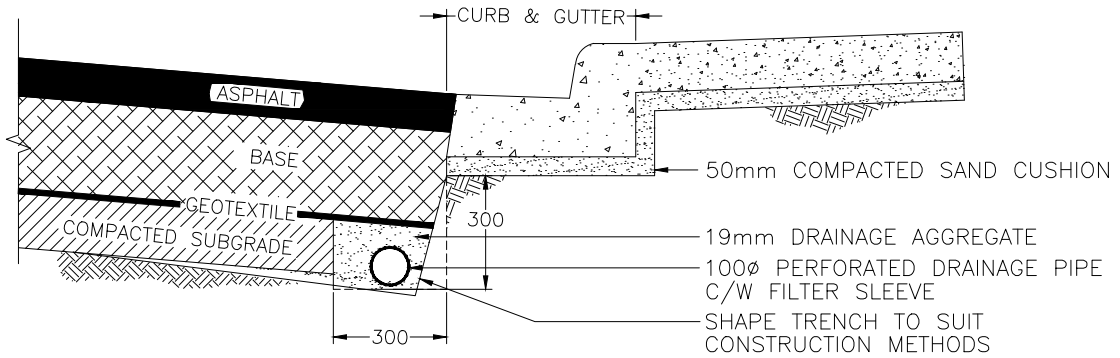
NOTES

1. PRIOR TO INSTALLING CAP, REMOVE TOP GASKET OF BELL OR ADAPTER

	CITY OF PRINCE ALBERT	APPROVED
	PUBLIC WORKS	<i>Wes Hicks</i>
	PVC SLEEVE SPECIFICATIONS FOR HARD SURFACED DRIVEWAYS	SCALE N.T.S.
No.	DATE	REVISION
	DRAWN S. NUMEDAHL	DESIGNED K. CALLAGHAN
	DATE OCT. 2014	DWG. No. 00-01-14



EXISTING ROAD, CURB & SEPARATE SIDEWALK RECONSTRUCTION

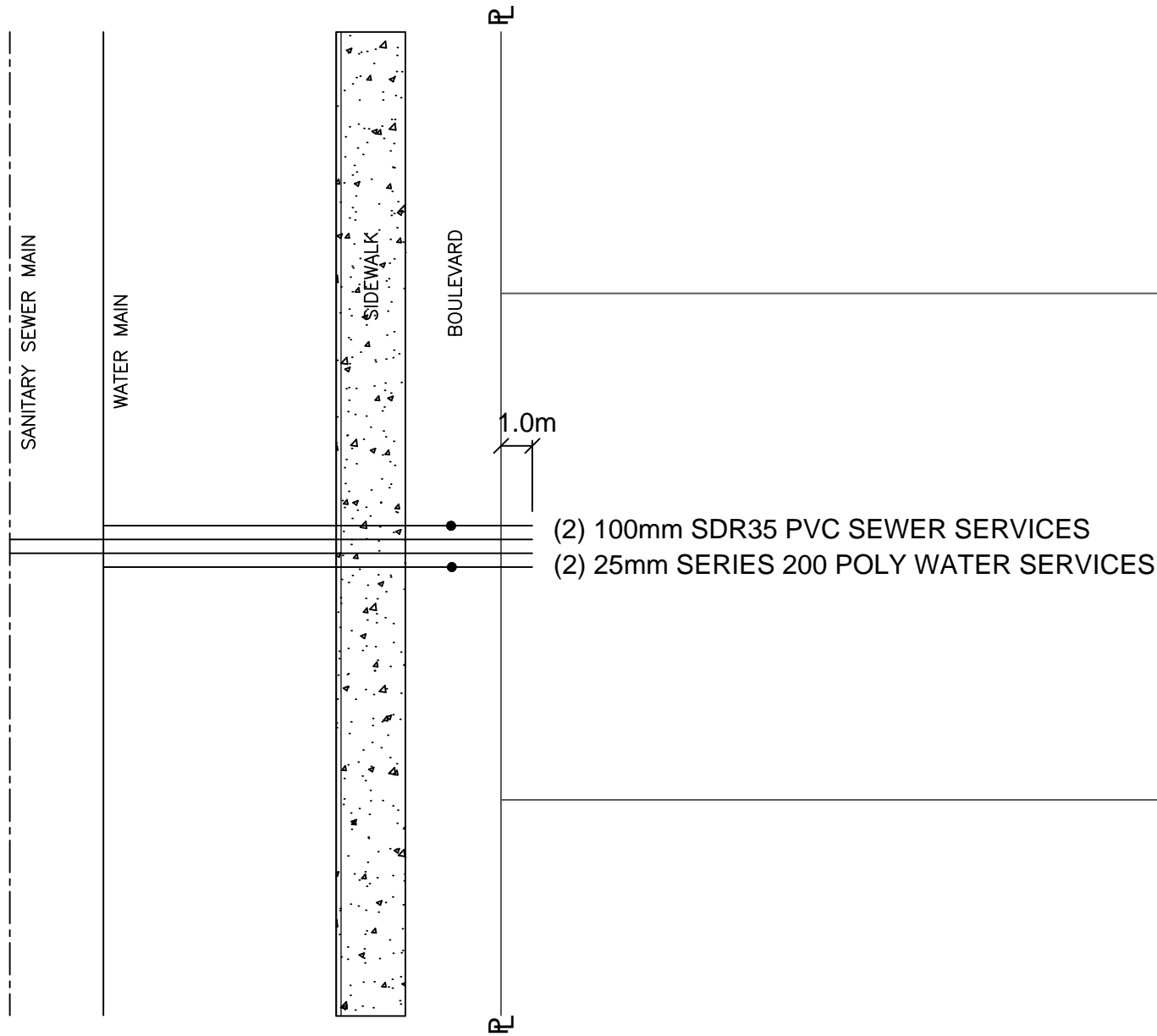


EXISTING ROADWAY RECONSTRUCTION

NOTES

1. ALL DIMENSIONS ARE GIVEN IN 'mm' UNLESS OTHERWISE STATED
2. ALL MATERIALS TO COMPLY WITH CITY OF PRINCE ALBERT MASTER SPECIFICATIONS

			CITY OF PRINCE ALBERT PUBLIC WORKS			APPROVED <i>Weo Hicks</i>
			PAVEMENT STRUCTURES w/ WEEPING TILE			SCALE N.T.S.
1	FEB 2020	MODIFIED DRAINAGE AGGREGATE	DRAWN S. NUMEDAHL DESIGNED N. MILLER DATE OCT. 2014			DWG. No. 00-01-15
No.	DATE	REVISION				

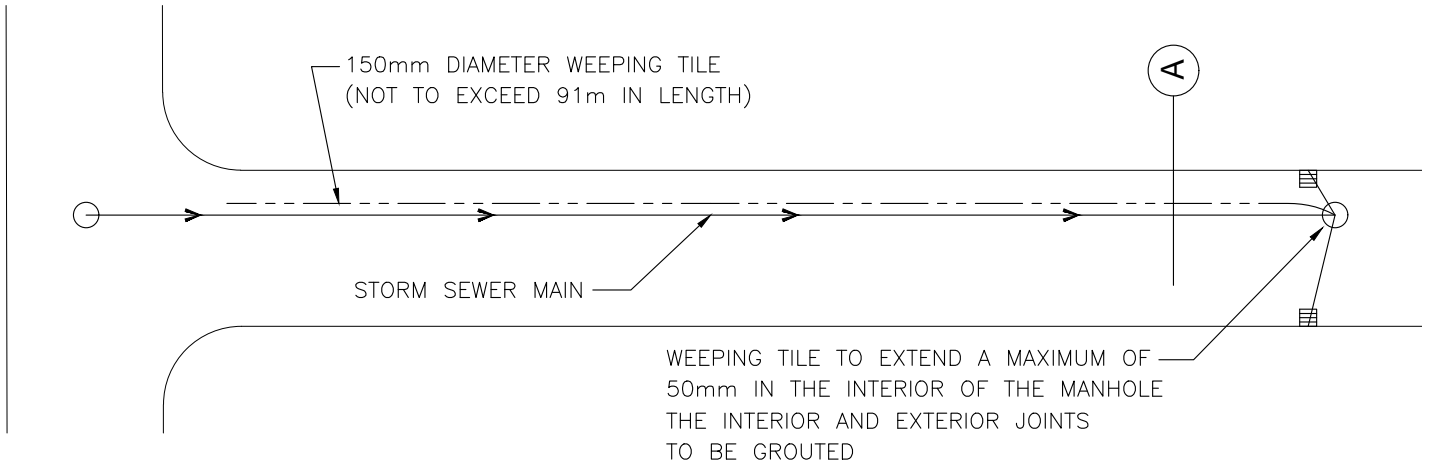


(2) 100mm SDR35 PVC SEWER SERVICES
 (2) 25mm SERIES 200 POLY WATER SERVICES

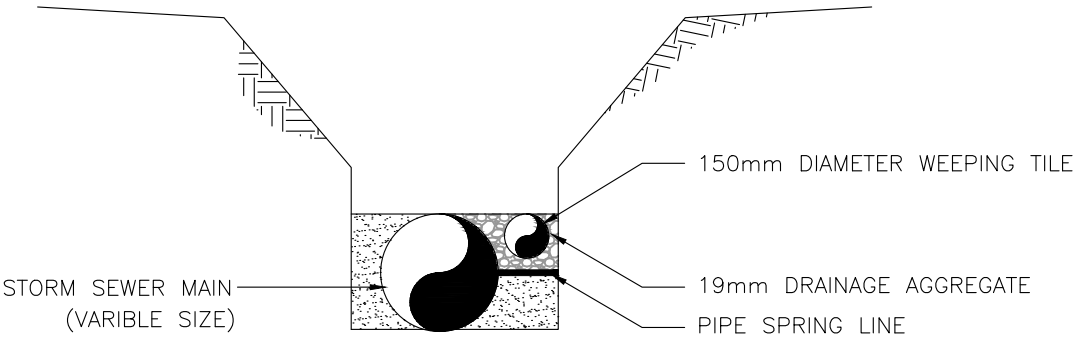
NOTES

1. INSTALLATION SPECIFICATIONS ARE THE SAME AS A SINGLE SERVICE
2. ALL MATERIALS TO COMPLY WITH CITY OF PRINCE ALBERT MASTER SPECIFICATIONS

			CITY OF PRINCE ALBERT PUBLIC WORKS		APPROVED <i>Wes Hicks</i>
			DUPLEX SERVICE CONNECTION		SCALE N.T.S.
1	4/16/15	CHANGED LOCATIONS OF SERVICES	DRAWN S. NUMEDAHL	DESIGNED K. CALLAGHAN	DATE OCT. 2014
No.	DATE	REVISION			DWG. No. 00-01-16



PLAN VIEW

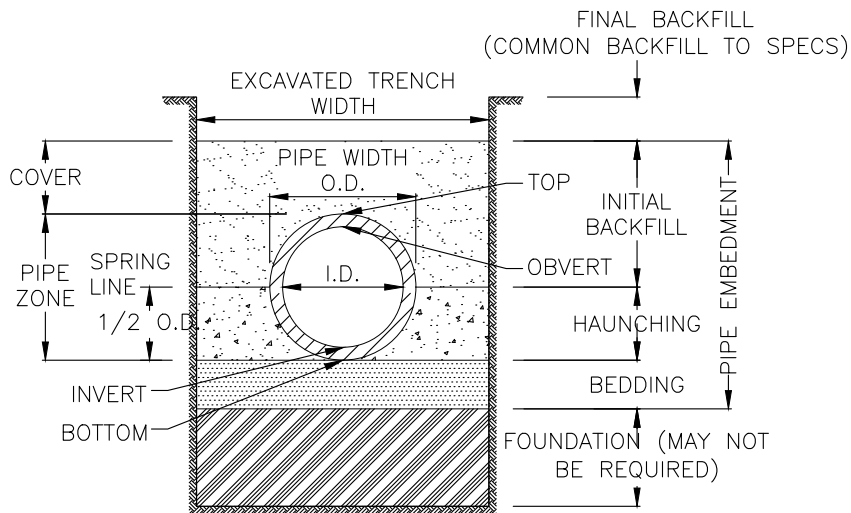


DETAIL 'A'

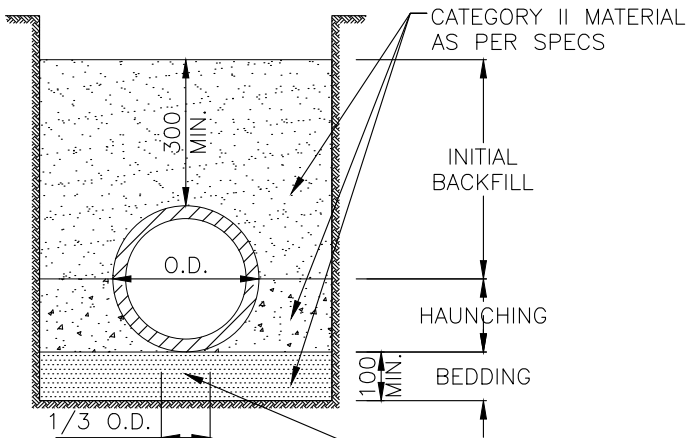
NOTES

1. ALL MATERIALS TO COMPLY WITH CITY OF PRINCE ALBERT MASTER SPECIFICATIONS

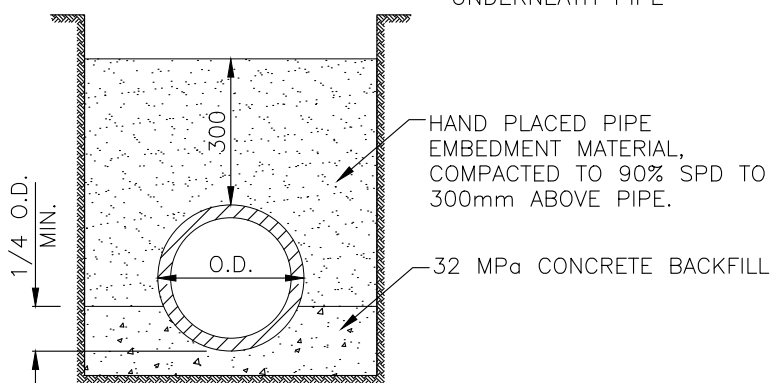
			CITY OF PRINCE ALBERT PUBLIC WORKS		APPROVED <i>Weo Hicks</i>
			STORM SEWER WEeping TILE DETAIL		SCALE N.T.S.
1	FEB 2020	REVISED SPECIFICATIONS	DRAWN S. NUMEDAHL	DESIGNED M.GAREAU	DATE OCT. 2014
No.	DATE	REVISION			DWG. No. 00-01-17



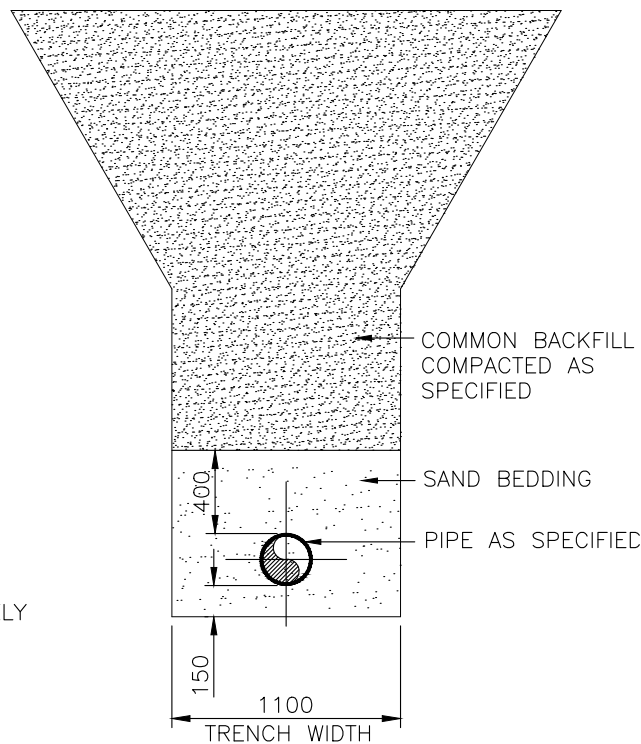
TERMINOLOGY



PVC & CONCRETE PIPE BEDDING DETAILS



CLASS "A" BEDDING
(CONCRETE BACKFILL & BEDDING)

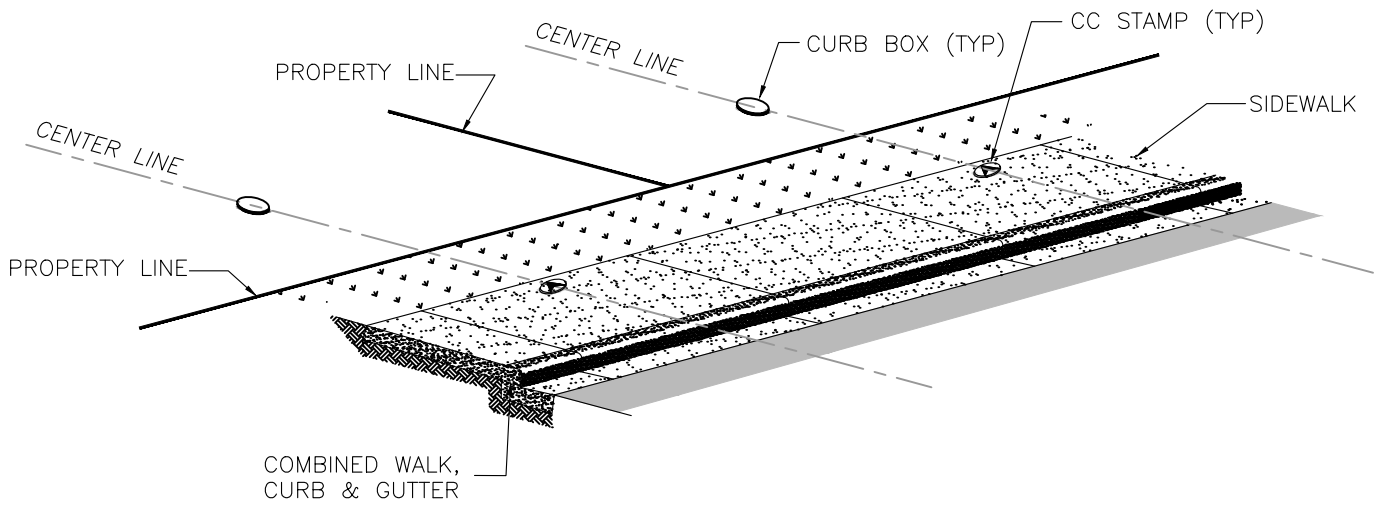


TYPICAL TRENCH

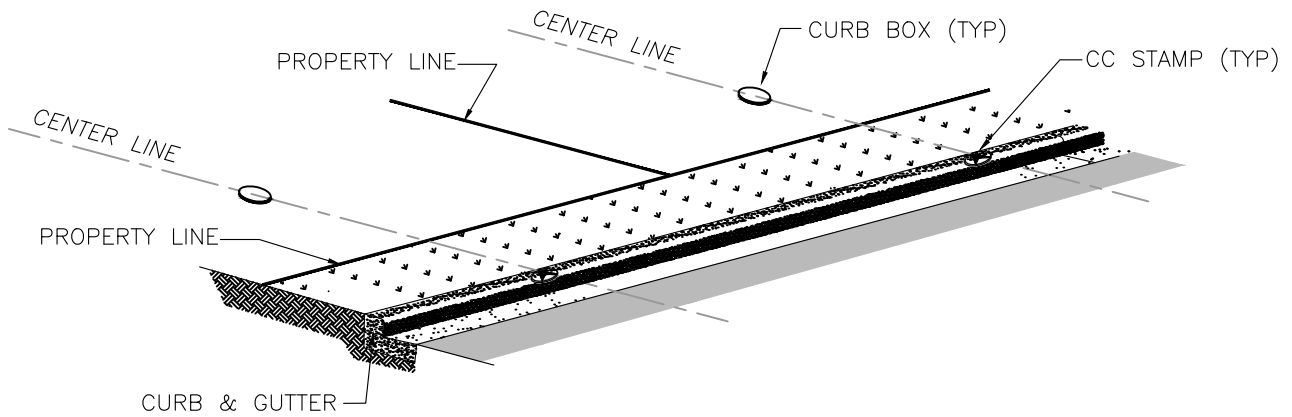
NOTES

1. ALL MATERIALS TO COMPLY WITH CITY OF PRINCE ALBERT MASTER SPECIFICATIONS

			CITY OF PRINCE ALBERT PUBLIC WORKS		APPROVED <i>Weo Hicks</i>
			TRENCH AND BEDDING DETAILS		SCALE N.T.S.
No.	DATE	REVISION	DRAWN S. NUMEDAHL	DESIGNED N. MILLER	DWG. No. 00-01-18
				DATE OCT. 2014	



COMBINED WALK, CURB & GUTTER CC STAMP



CURB & GUTTER CC STAMP

			CITY OF PRINCE ALBERT PUBLIC WORKS		APPROVED <i>Wes Hicks</i>
			CURB COCK (CC) STAMP DETAIL		SCALE N.T.S.
No.	DATE	REVISION	DRAWN S. NUMEDAHL	DESIGNED N. MILLER	DATE OCT. 2014
					DWG. No. 00-01-19



City of Prince Albert

Service Connection Note

CIVIC ADDRESS _____ DATE _____

LOT _____ BLOCK _____ PLAN _____

SEWER SERVICE

PIPE: DIA. _____ TYPE _____ LENGTH _____

WATER SERVICE

PIPE: DIA. _____ TYPE _____ LENGTH _____

THAW WIRE: Y / N LENGTH _____

FITTING SIZES: CLAMP _____ CORP _____ CURB _____

SPECIALS _____

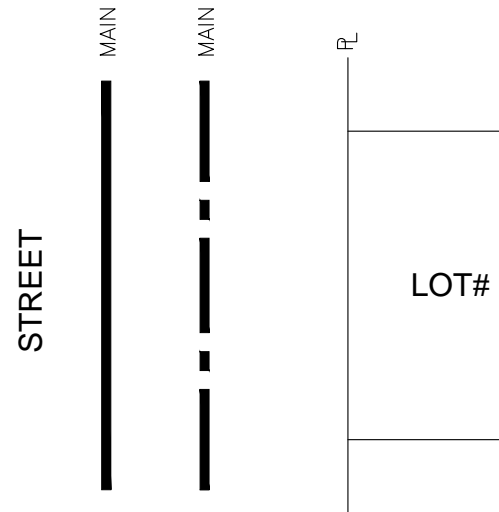
TRENCHING

LENGTHS: MACHINE _____ HAND _____ AUGER _____

OTHER _____

Service Connection Tie-in

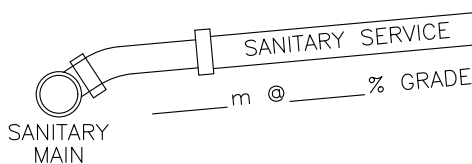
SHOW LOCATION OF WATER AND SEWER SERVICES IN RELATION TO LOT PROPERTY LINES



Service Connection Profile

ALL ELEVATIONS ARE TO BE IN GEODETIC FORMAT BASED ON THE CITY OF PRINCE ALBERT BENCHMARK INFORMATION

T/FINISHED GRADE @ RL
= _____



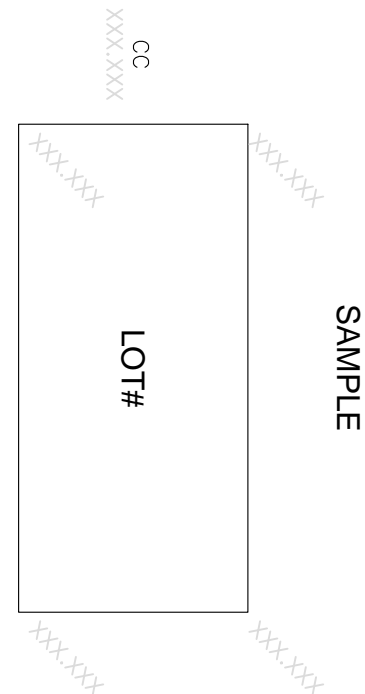
INVERT ELEVATION @ RL
= _____

NOTE: MINIMUM GRADE FOR 100mm SEWER PIPE IS 2.00%.
MINIMUM GRADE FOR 150mm SEWER PIPE IS 1.00%.

Lot Grading Plan

PROVIDE DIAGRAM OF TOP VIEW OF LOT INDICATING FINISHED GRADE AT EACH PROPERTY DEFLECTION POINT AND ELEVATION AT THE STAMPED CC

STREET



CITY OF PRINCE ALBERT
PUBLIC WORKS

APPROVED
Weo Hicks

SERVICE CONNECTION NOTE
RESIDENTIAL DEVELOPMENTS

SCALE N.T.S.

No. DATE REVISION

DRAWN S. NUMEDAHL | DESIGNED N. MILLER | DATE MAR. 2015

DWG. No. 00-01-20



City of Prince Albert

Service Connection Note

CIVIC ADDRESS _____ DATE _____

LOT _____ BLOCK _____ PLAN _____

STORM SEWER SERVICE

PIPE: DIA. _____ TYPE _____ LENGTH _____

SANITARY SEWER SERVICE

PIPE: DIA. _____ TYPE _____ LENGTH _____

WATER SERVICE

PIPE: DIA. _____ TYPE _____ LENGTH _____

THAW WIRE: Y / N LENGTH _____

FITTING SIZES: CLAMP _____ CORP _____ CURB _____

SPECIALS _____

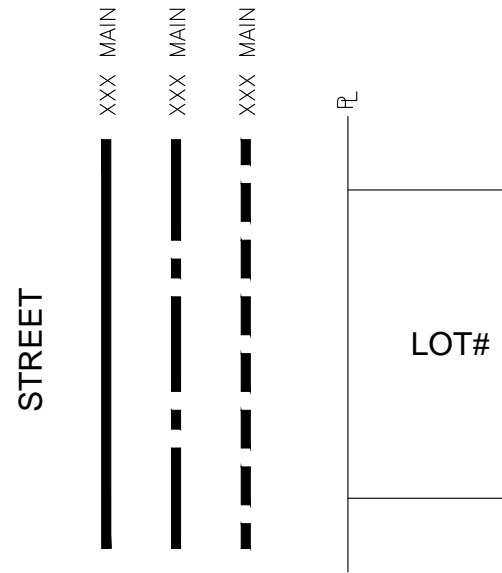
TRENCHING

LENGTHS: MACHINE _____ HAND _____ AUGER _____

OTHER _____

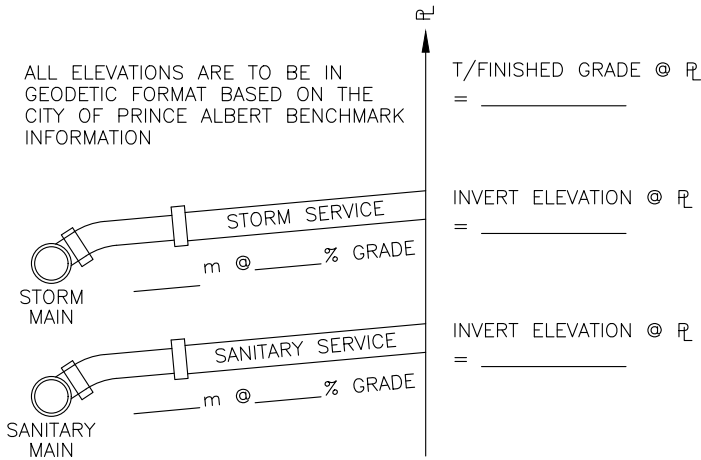
Service Connection Tie-in

SHOW LOCATION OF WATER AND SEWER SERVICES IN RELATION TO LOT PROPERTY LINES



Service Connection Profile

ALL ELEVATIONS ARE TO BE IN GEODETIC FORMAT BASED ON THE CITY OF PRINCE ALBERT BENCHMARK INFORMATION

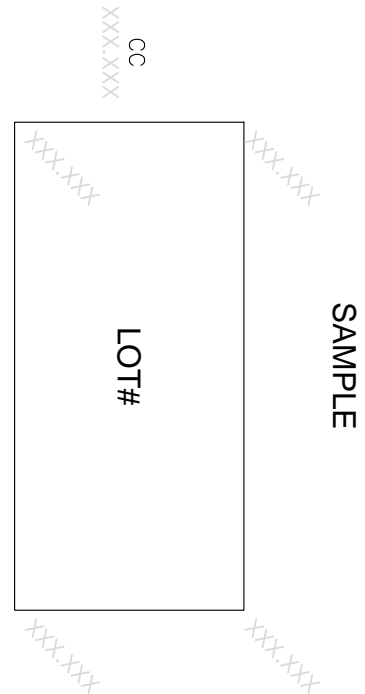


NOTE: MINIMUM GRADE FOR 250mm STM SEWER PIPE IS 0.50%.
 MINIMUM GRADE FOR 100mm SAN SEWER PIPE IS 2.00%.
 MINIMUM GRADE FOR 150mm SAN SEWER PIPE IS 1.00%.

Lot Grading Plan

PROVIDE DIAGRAM OF TOP VIEW OF LOT INDICATING FINISHED GRADE AT EACH PROPERTY DEFLECTION POINT AND ELEVATION AT THE STAMPED CC

STREET



CITY OF PRINCE ALBERT
 PUBLIC WORKS

APPROVED

Wes Hicks

SERVICE CONNECTION NOTE
DEVELOPMENTS WITH STORM SEWER

SCALE N.T.S.

No.	DATE	REVISION
1	Feb 2017	REVISED DETAIL TITLE

DRAWN S. NUMEDAHL | DESIGNED N. MILLER | DATE MAR. 2015

DWG. No. 00-01-21

**CITY OF PRINCE ALBERT
CURB BOX REPORT
LOCATION AND ADJUSTMENT**

Address: _____

Legal Description:

Lot: _____

Block: _____

River Lot: _____

Plan: _____

Work Performed:

Curb Box Located: _____

Curb Box Raised: _____

Curb Box Marked: _____

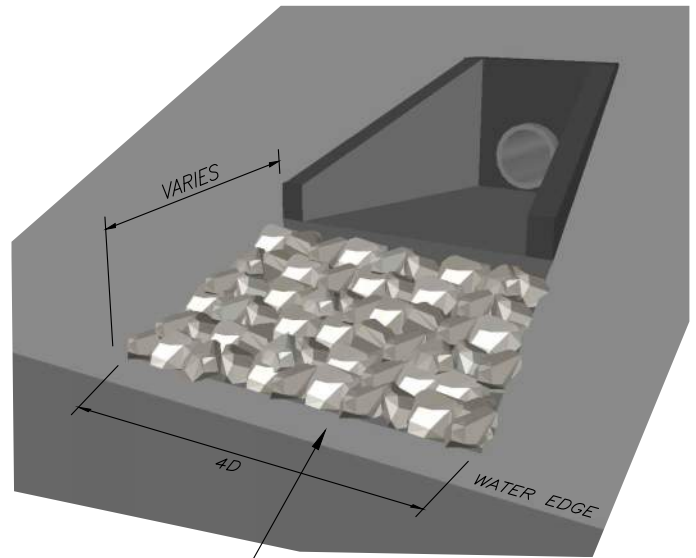
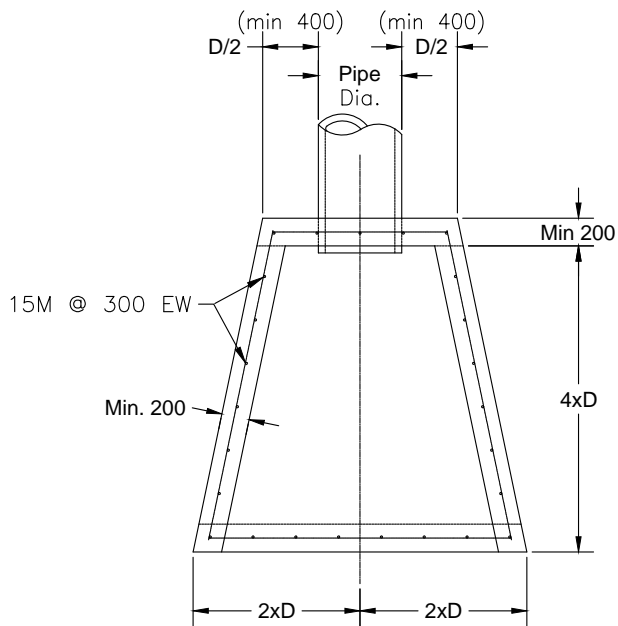
Note:
Any Additional Repairs Required?: _____

Date of Location or Repair Completed: _____

Performed by: _____

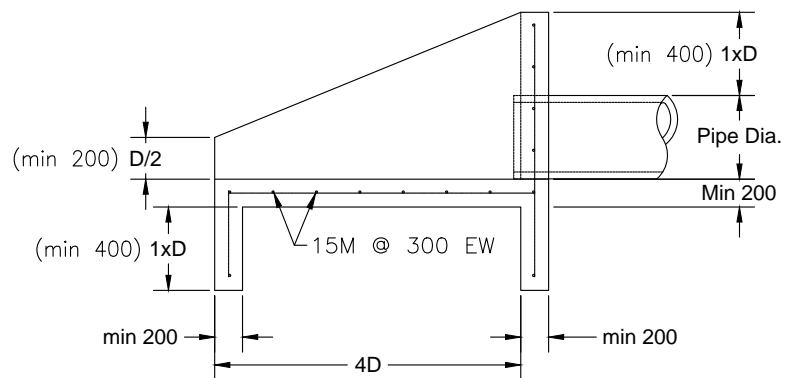
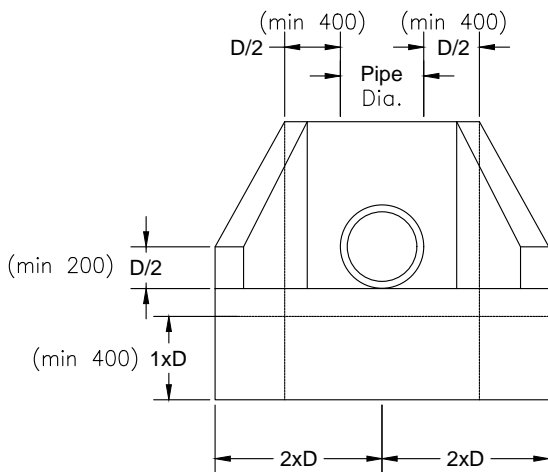
Foreman: _____

Supervisor: _____

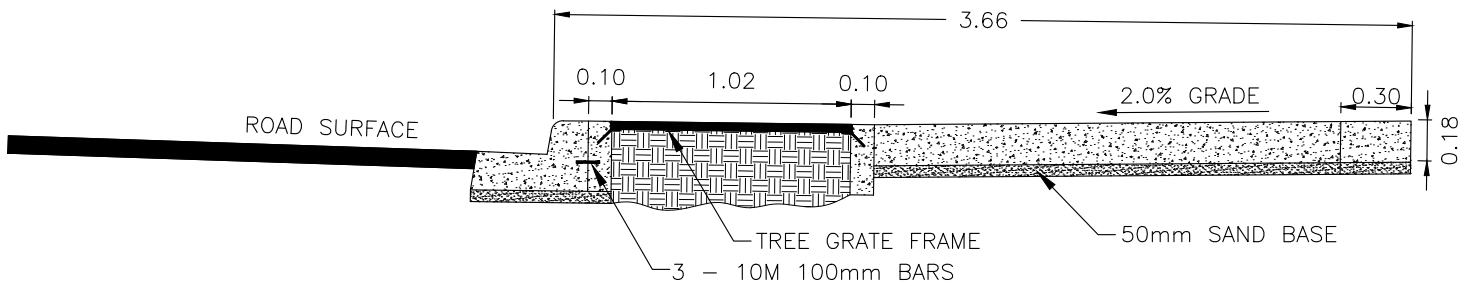
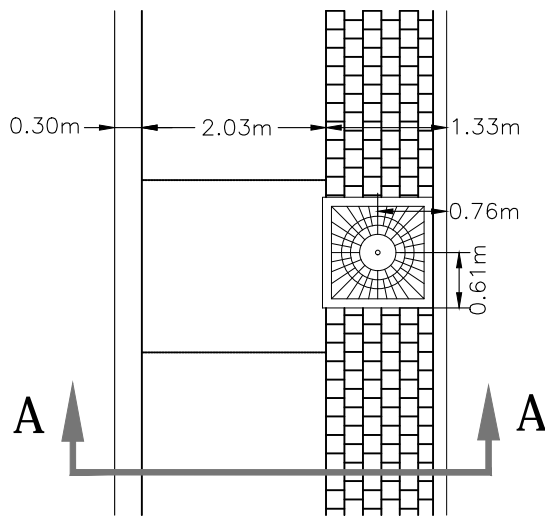
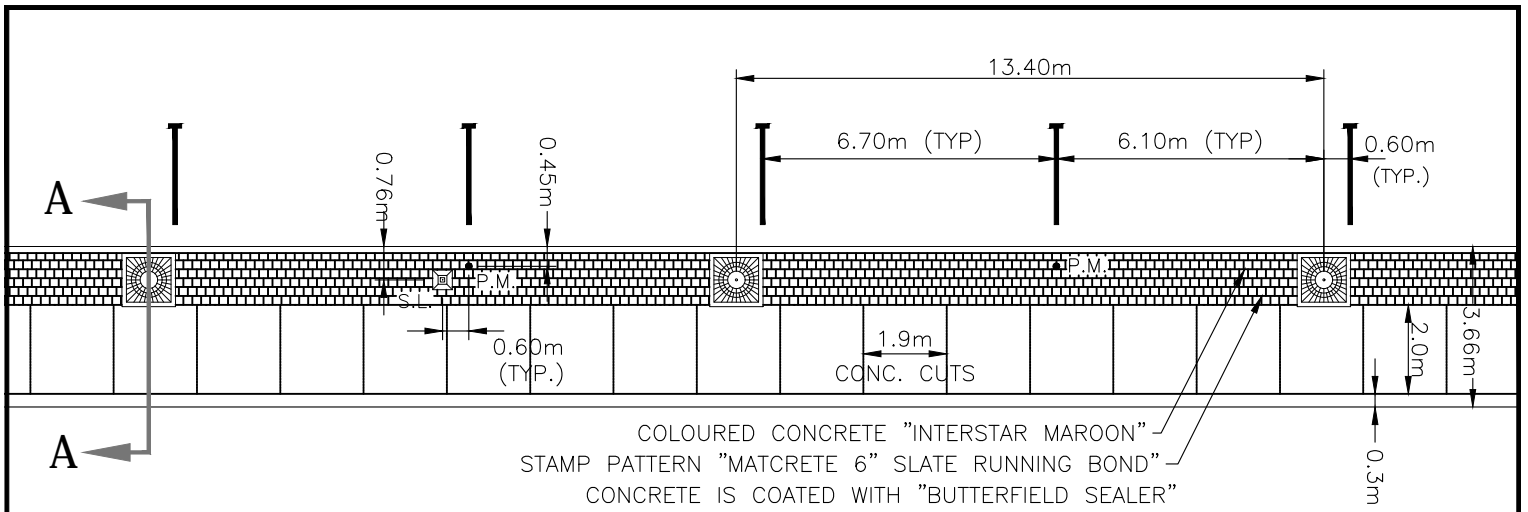


DO NOT ALTER SHORE LINE IN ANY WAY
DO NOT PLACE ANY MATERIAL INTO THE WATER

RIPRAP STONE SIZE	
100%	< 350mm
80%	< 275mm



			CITY OF PRINCE ALBERT PUBLIC WORKS			APPROVED <i>Wes Hicks</i>	
			STORM OUTFALL DESIGN			SCALE N.T.S.	
1	JAN 2017	REVISED RIPRAP REQUIREMENTS				DWG. No. 00-01-23	
No.	DATE	REVISION	DRAWN S. NUMEDAHL	DESIGNED N. MILLER	DATE OCT. 2014		



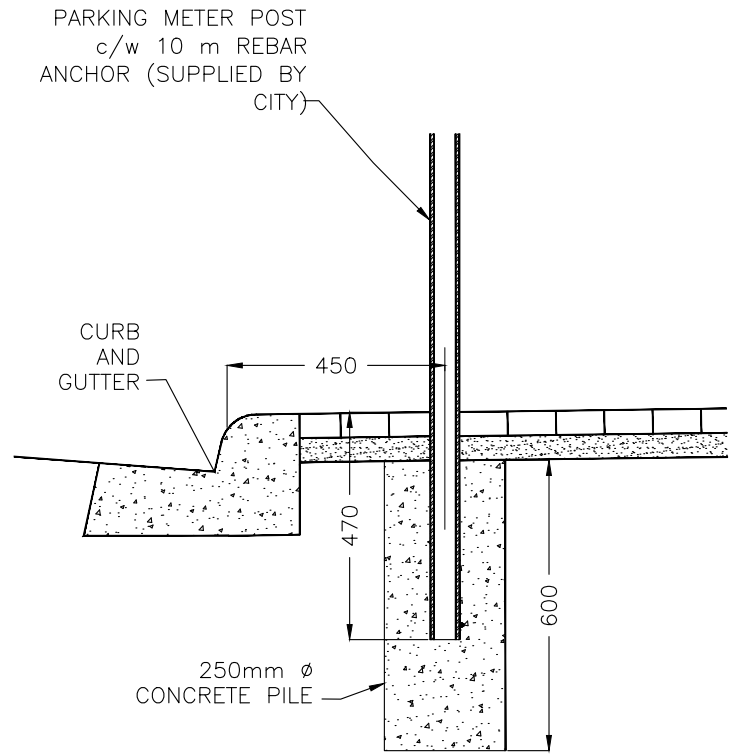
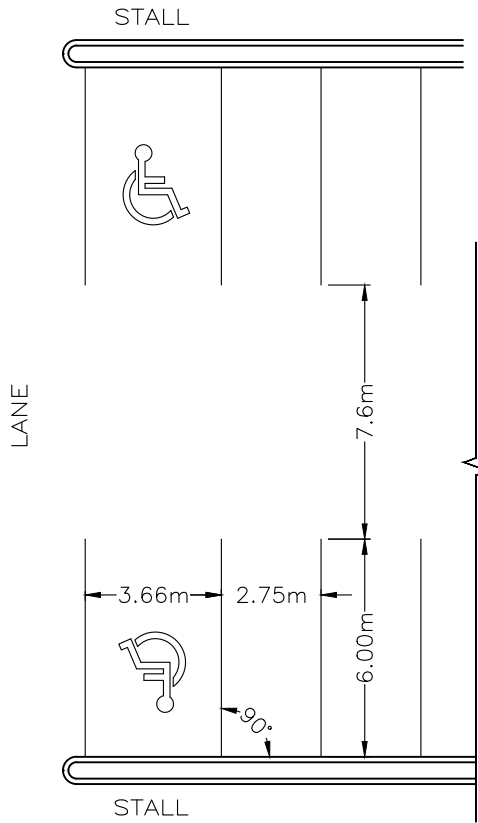
NOTES

1. CONCRETE COMPRESSIVE STRENGTH = 32MPa
2. MAXIMUM AGGREGATE SIZE = 20mm
3. MAXIMUM SLUMP = 75mm

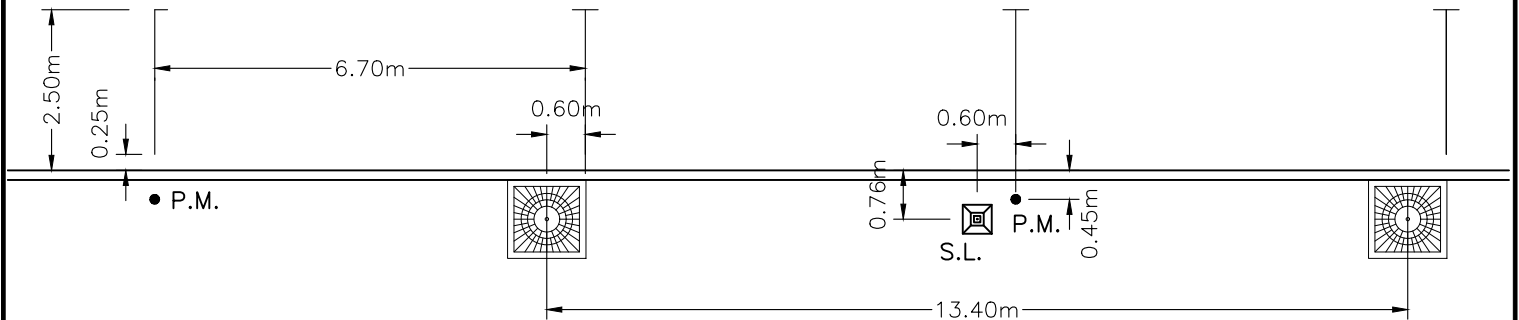
			CITY OF PRINCE ALBERT PUBLIC WORKS		APPROVED <i>Wes Hicks</i>
			STREETScape DETAIL AND TREE GRATE DETAIL		SCALE N.T.S.
No.	DATE	REVISION	DRAWN S. NUMEDAHL	DESIGNED N. MILLER	DWG. No. 00-02-01
				DATE OCT. 2014	

90° PARKING DETAIL

PARKING METER POST BASE



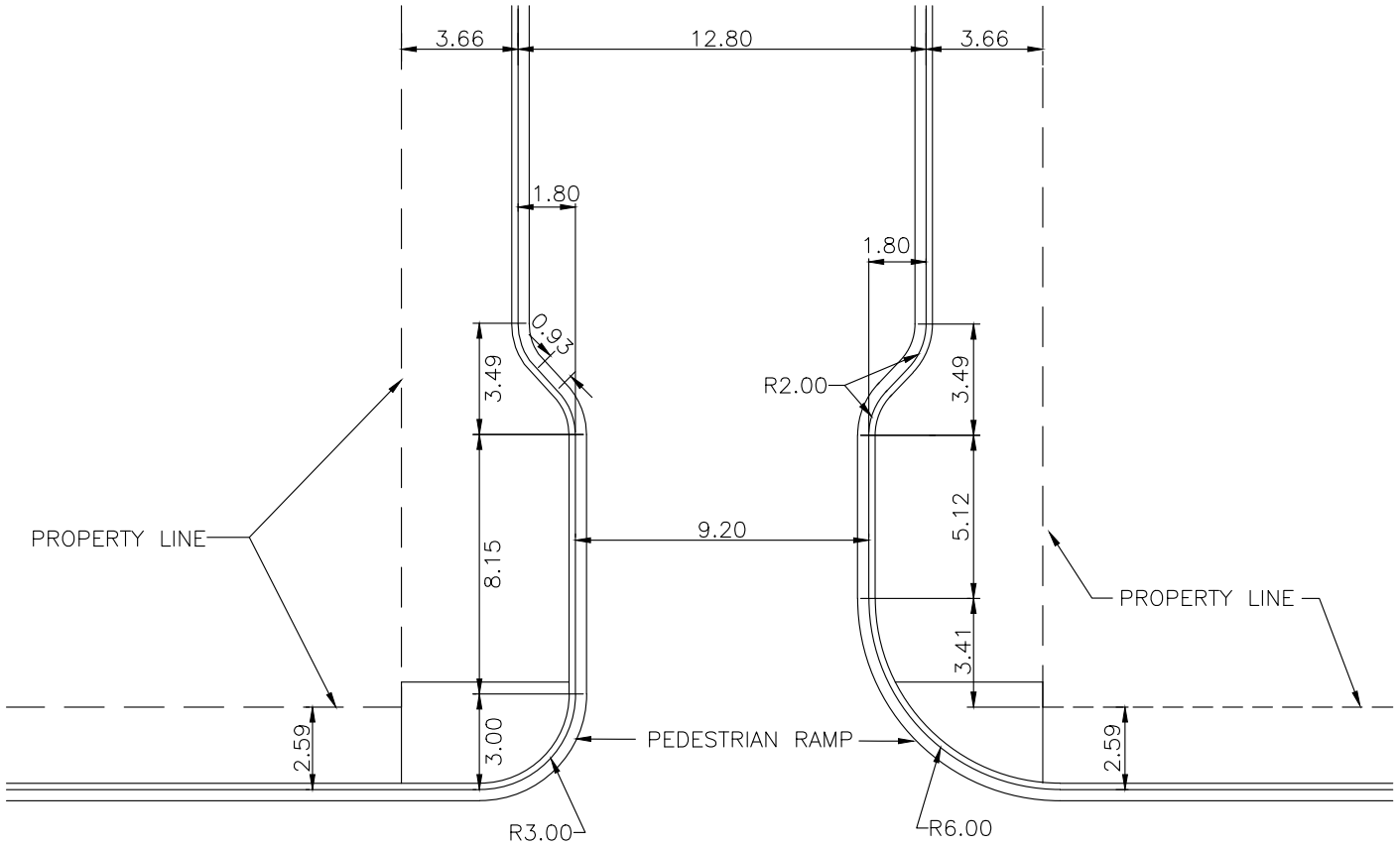
METERED PARKING DETAIL



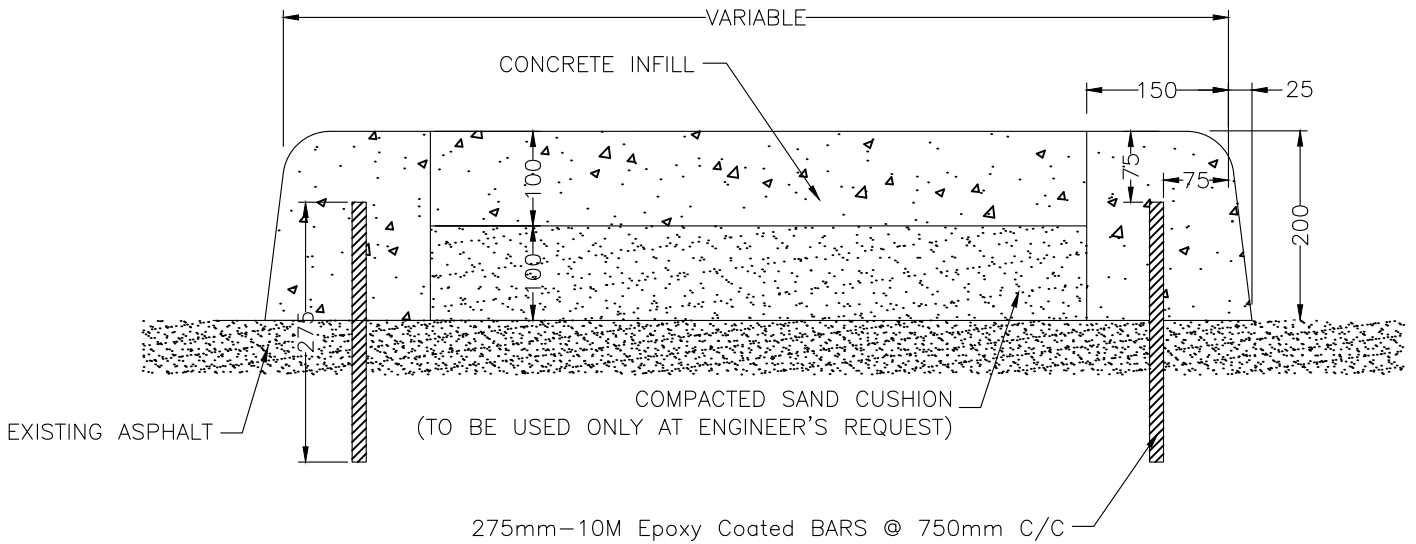
NOTES

- 90° PARKING DIMENSIONS ARE A MINIMUM REQUIREMENT AND METERED PARKING DIMENSIONS ARE TYPICAL
- ZONING BYLAW NO. 1 OF 1987 STATES THERE SHALL BE 1 STALL AVAILABLE FOR PERSONS WITH DISABILITIES, FOR LOTS WITH 10 SPACES OR LESS FOR LOTS WITH 11-400 SPACES, 2 SPACES OR 2% OF THE TOTAL SPACES, WHICHEVER IS GREATER, MUST BE AVAILABLE FOR PERSONS WITH DISABILITIES

			CITY OF PRINCE ALBERT PUBLIC WORKS		APPROVED <i>Wes Hicks</i>
			METERED PARKING DETAIL		SCALE N.T.S.
No.	DATE	REVISION	DRAWN S. NUMEDAHL	DESIGNED N. MILLER	DATE OCT. 2014
					DWG. No. 00-02-02



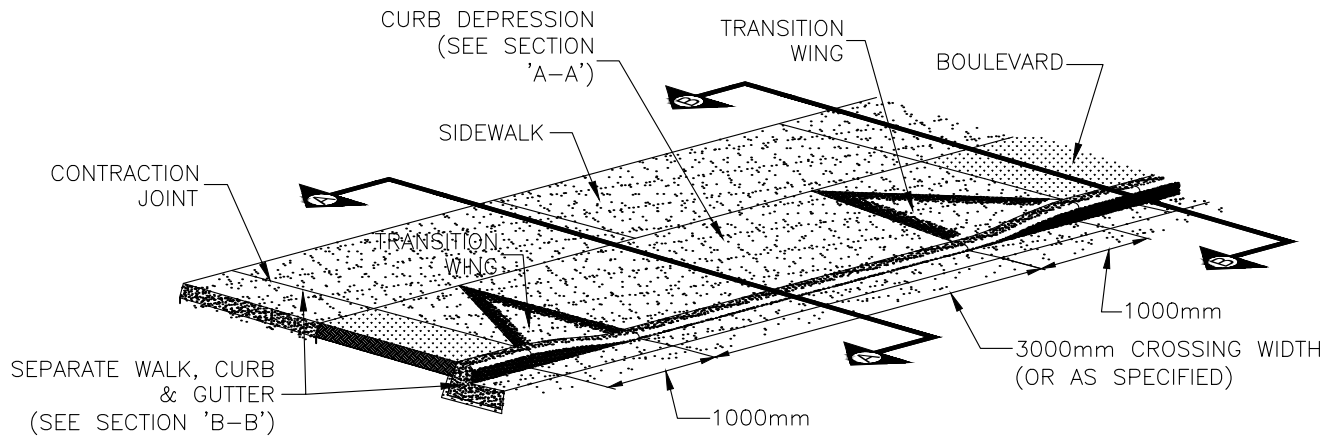
			CITY OF PRINCE ALBERT		APPROVED
			PUBLIC WORKS		<i>Weo Hicks</i>
			DOWNTOWN CURB DETAIL		SCALE N.T.S.
No.	DATE	REVISION	DRAWN S. NUMEDAHL	DESIGNED N. MILLER	DWG. No. 00-02-03
			DATE OCT. 2014		



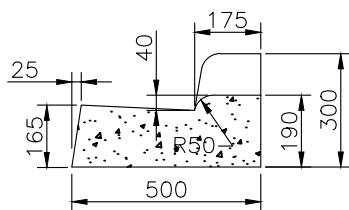
NOTES

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

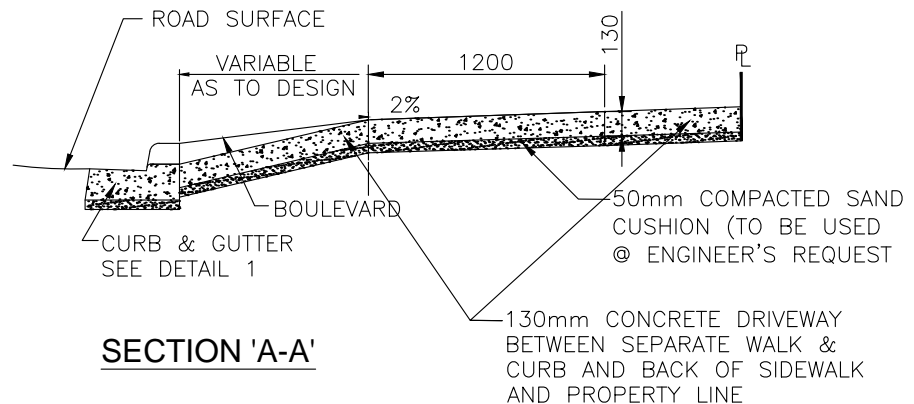
			CITY OF PRINCE ALBERT PUBLIC WORKS		APPROVED <i>Weo Hicks</i>
			MEDIAN DETAIL ON EXISTING ASPHALT		SCALE N.T.S.
No.	DATE	REVISION	DRAWN S. NUMEDAHL	DESIGNED N. MILLER	DATE OCT. 2014
					DWG. No. 00-03-01



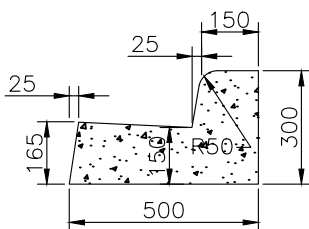
SEPARATE WALK, CURB & GUTTER CROSSING



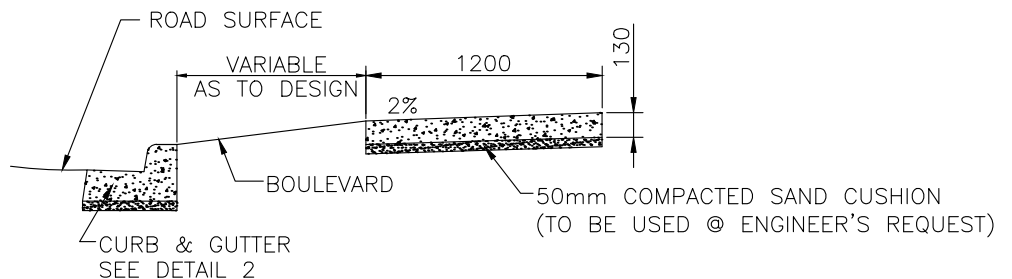
DETAIL 1



SECTION 'A-A'



DETAIL 2

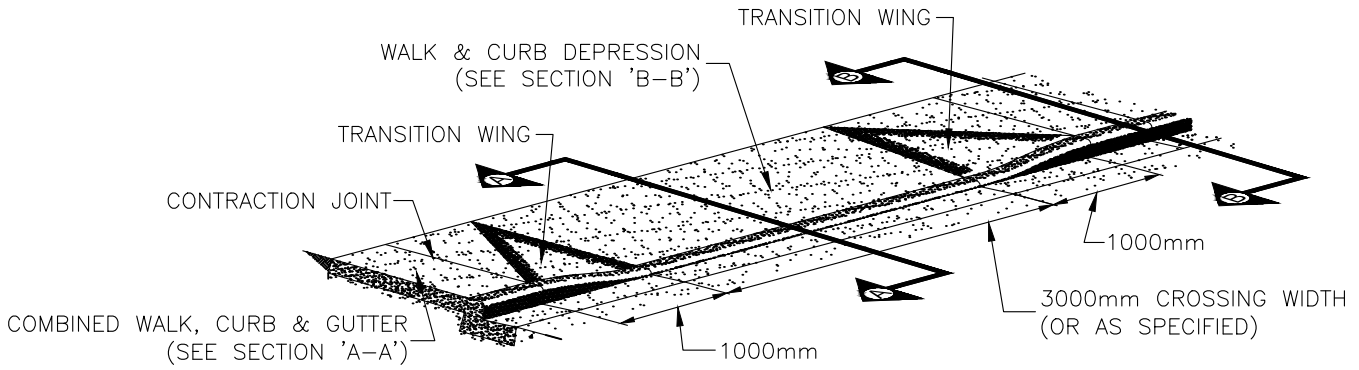


SECTION 'B-B'

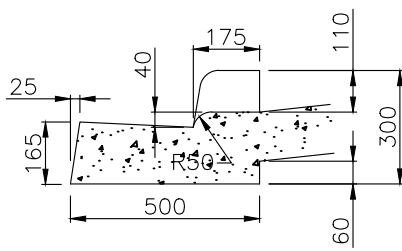
NOTES

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

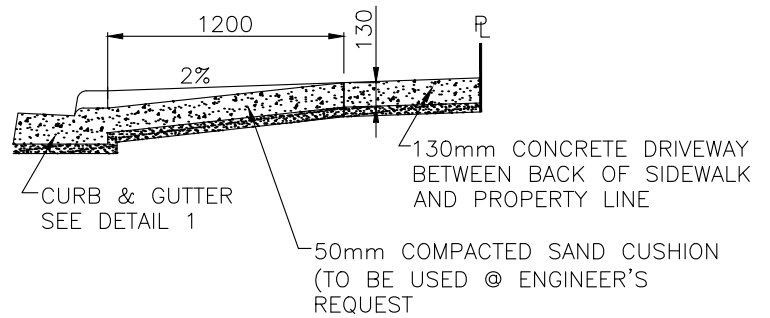
			CITY OF PRINCE ALBERT PUBLIC WORKS			APPROVED <i>Weo Hicks</i>
			VERTICAL CURB, GUTTER AND SEPARATE WALK			SCALE N.T.S.
1	8/6/2018	SURFACE REPAIR CLARIFICATIONS				DWG. No. 00-03-02
No.	DATE	REVISION	DRAWN S. NUMEDAHL	DESIGNED N. MILLER	DATE OCT. 2014	



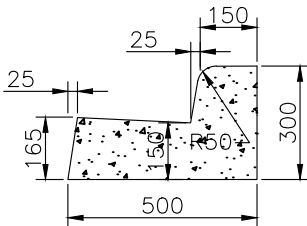
COMBINED WALK, CURB & GUTTER CROSSING



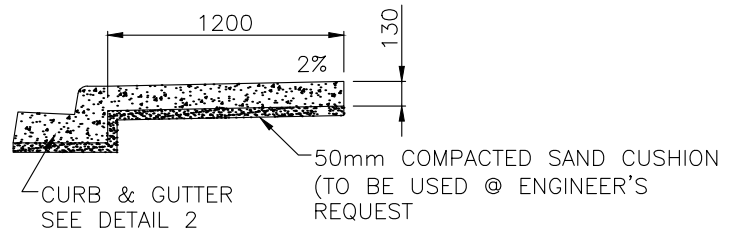
DETAIL 1



SECTION 'A-A'



DETAIL 2

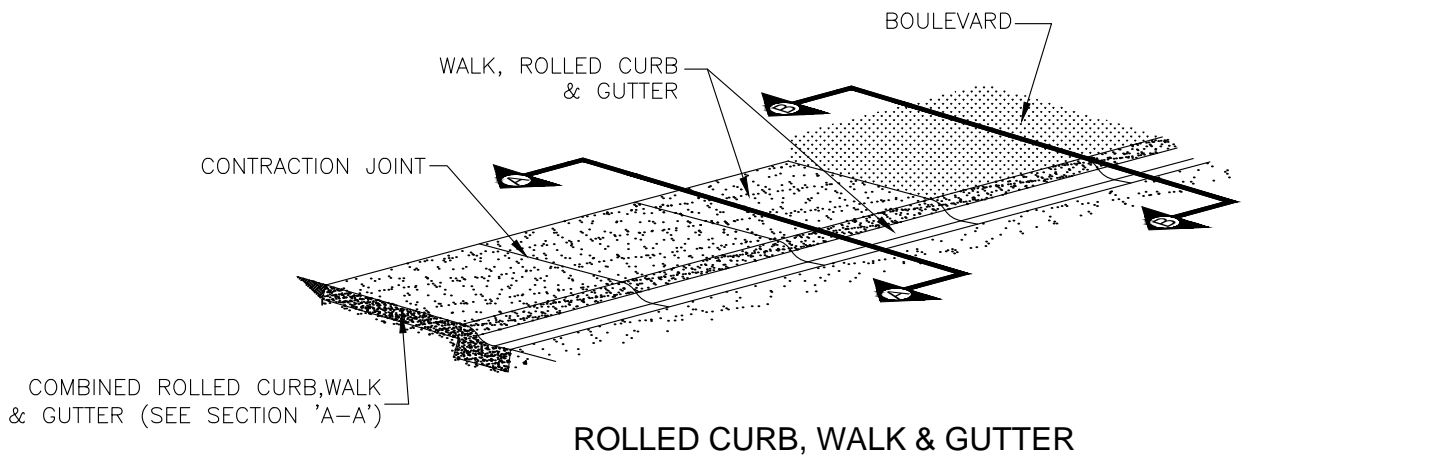


SECTION 'B-B'

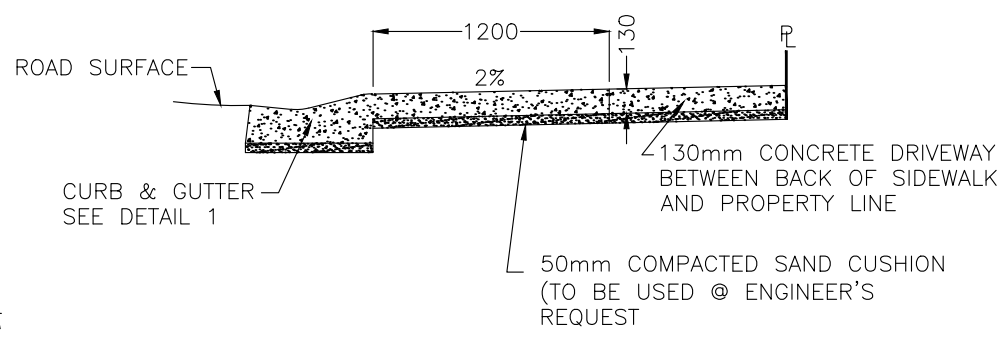
NOTES

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

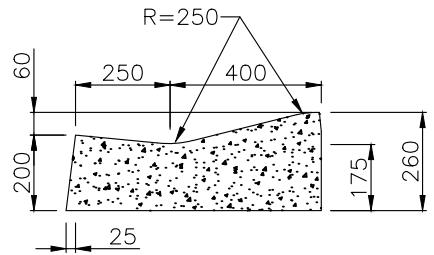
			CITY OF PRINCE ALBERT PUBLIC WORKS			APPROVED <i>Wes Hicks</i>	
			VERTICAL CURB, GUTTER AND SIDEWALK MONOLITHIC				
1	8/6/2018	SURFACE REPAIR CLARIFICATIONS				SCALE	
No.	DATE	REVISION	DRAWN S. NUMEDAHL	DESIGNED N. MILLER	DATE OCT. 2014	DWG. No. 00-03-03	



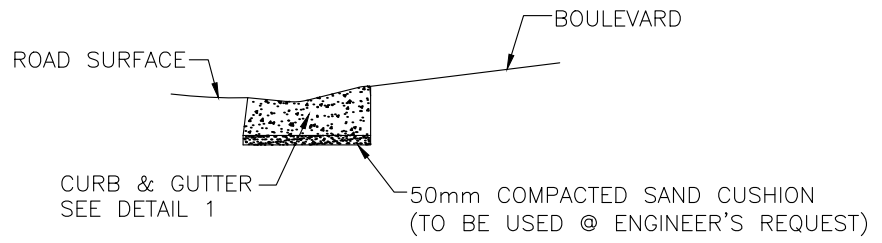
ROLLED CURB, WALK & GUTTER



SECTION 'A-A'



DETAIL 1

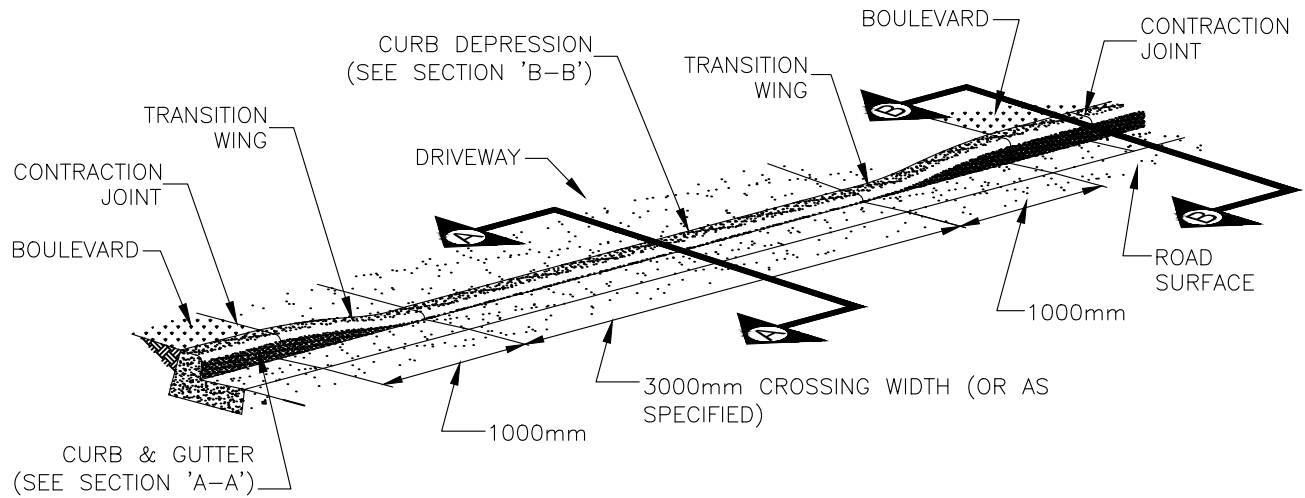


SECTION 'B-B'

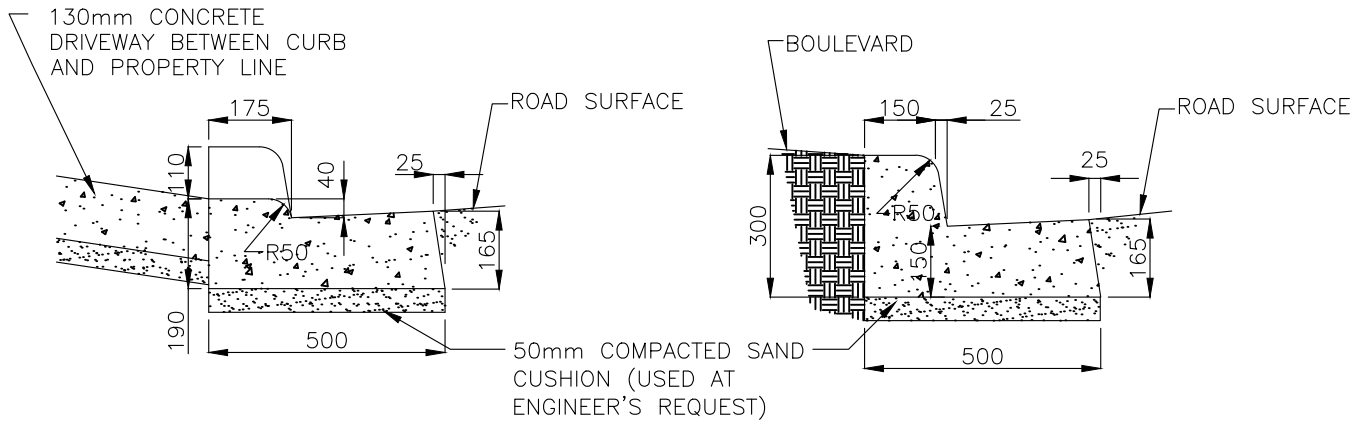
NOTES

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				
1	8/6/2018	SURFACE REPAIR CLARIFICATIONS				SCALE	
No.	DATE	REVISION	DRAWN S. NUMEHAHL	DESIGNED N. MILLER	DATE OCT. 2014	DWG. No. 00-03-04	



CURB & GUTTER CROSSING



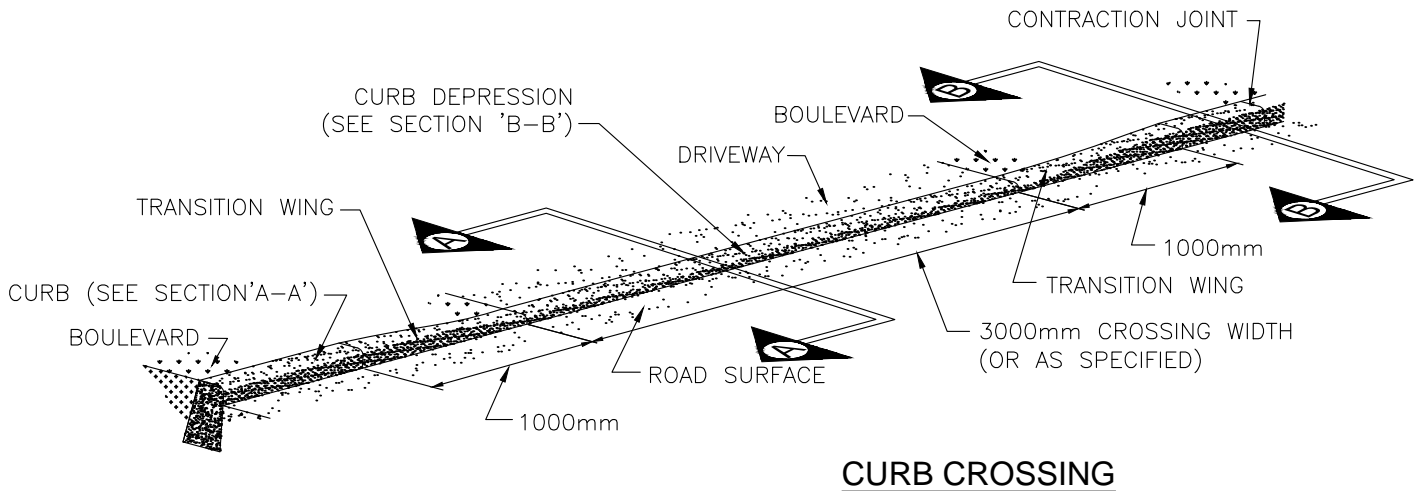
SECTION 'A-A'

SECTION 'B-B'

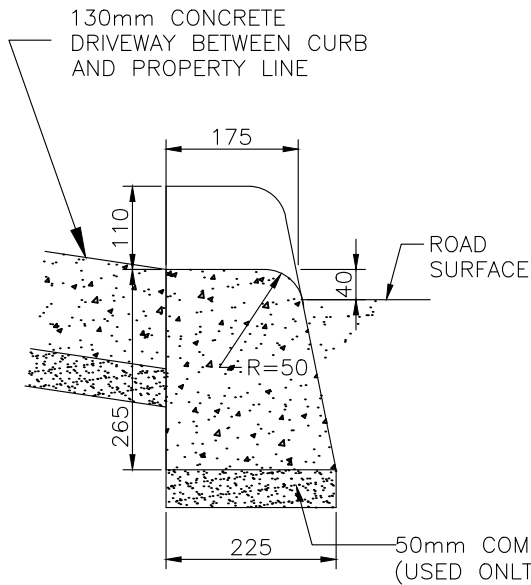
NOTES

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

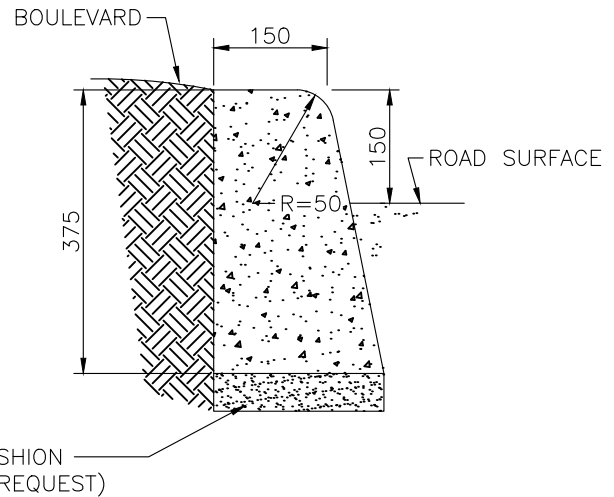
			CITY OF PRINCE ALBERT PUBLIC WORKS		APPROVED <i>Weo Hicks</i>
			VERTICAL CURB AND GUTTER CROSSING DETAIL		SCALE
1	06/01/18	SURFACE REPAIR CLARIFICATIONS	DRAWN S. NUMEDAHL	DESIGNED N. MILLER	DWG. No. 00-03-05
No.	DATE	REVISION	DATE OCT. 2014		



CURB CROSSING



SECTION 'A-A'

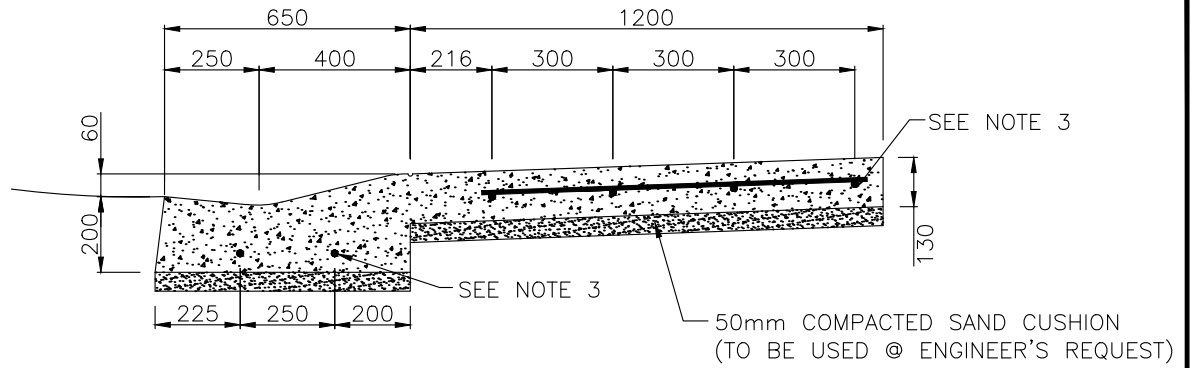


SECTION 'B-B'

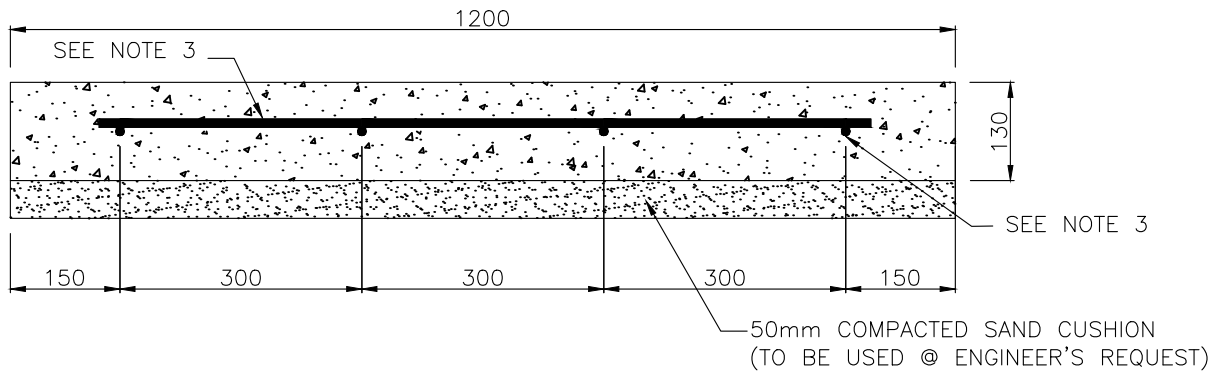
NOTES

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

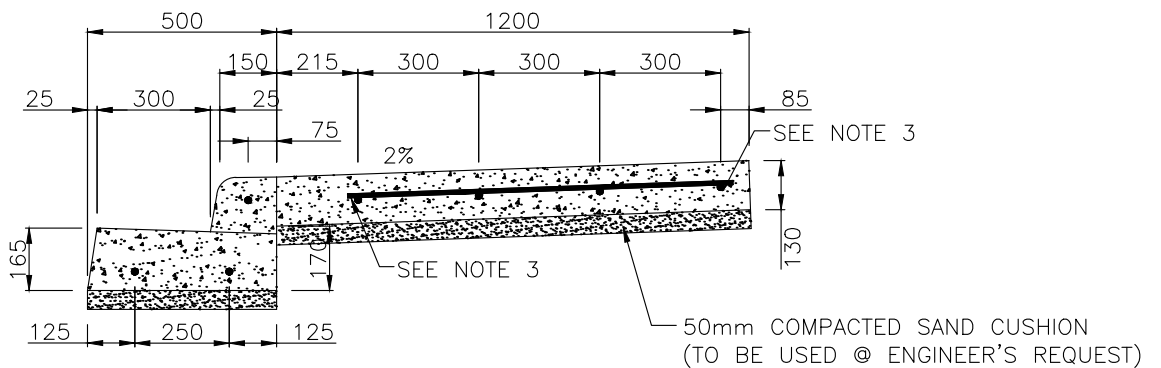
			CITY OF PRINCE ALBERT PUBLIC WORKS			APPROVED <i>Weo Hicks</i>
			VERTICAL CURB CROSSING DETAIL			SCALE N.T.S.
1	06/01/18	SURFACE REPAIR CLARIFICATIONS	DRAWN S. NUMEDAHL	DESIGNED N. MILLER	DATE OCT. 2014	DWG. No. 00-03-06
No.	DATE	REVISION				



COMBINED ROLLED CURB, WALK & GUTTER



SEPARATE WALK

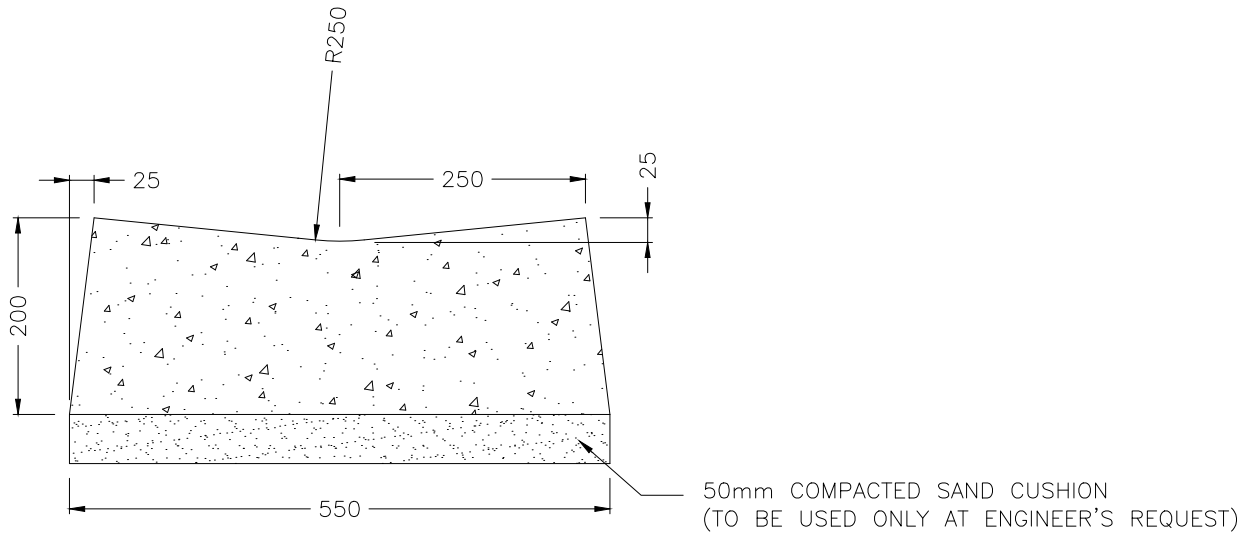


COMBINED WALK, CURB & GUTTER

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

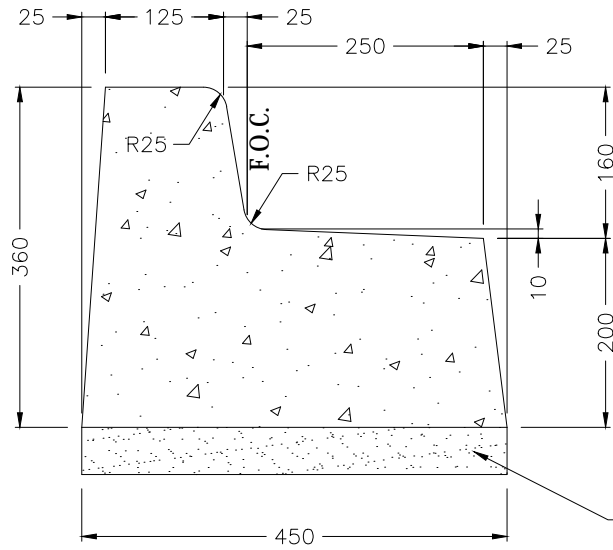


CONCRETE SWALE

NOTES

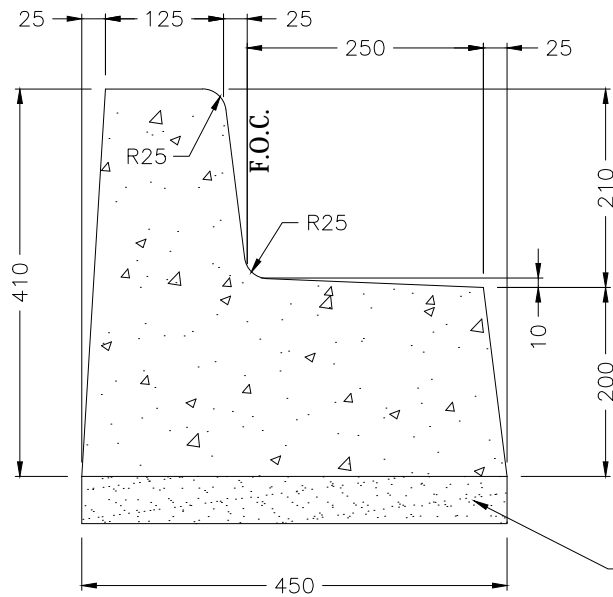
1. CONCRETE COMPRESSIVE STRENGTH = 32 MPa
2. MAXIMUM AGGREGATE SIZE = 20mm
3. MAXIMUM SLUMP = 75mm
4. CONTRACTION JOINTS SHALL BE CONSTRUCTED @ INTERVALS OF 1.5m WITH GROOVES APPROX. 3mm IN WIDTH AND SHALL EXTEND 1/4 THE DEPTH OF THE STRUCTURE
5. CONTRACTION JOINTS SHALL BE CONSTRUCTED IN ALL CROSSINGS 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. NUMEHAHL	DESIGNED N. MILLER
	DATE OCT. 2014	
	DWG. No. 00-03-08	



50mm COMPACTED SAND CUSHION (USED AT ENGINEER'S REQUEST)

150mm VERTICAL CURB & GUTTER



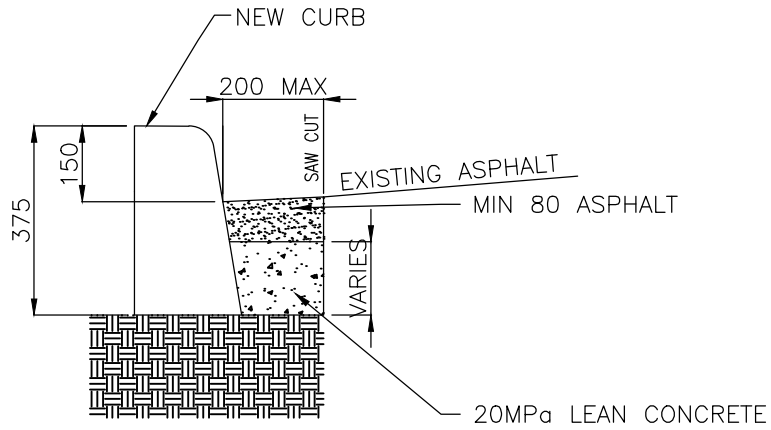
50mm COMPACTED SAND CUSHION (USED AT ENGINEER'S REQUEST)

200mm VERTICAL CURB & GUTTER

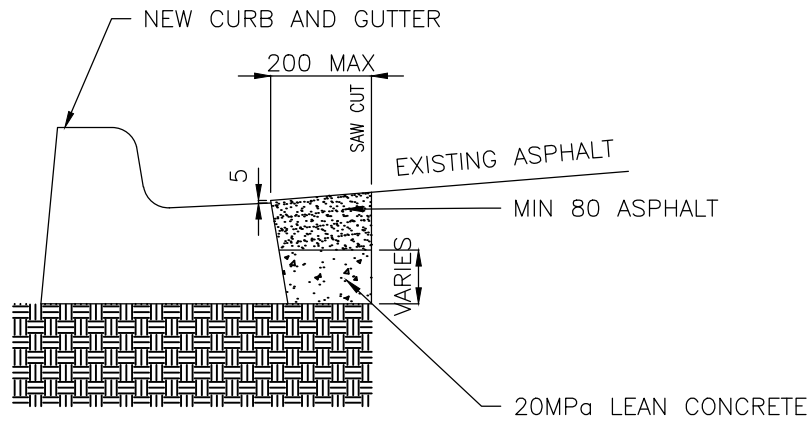
NOTES

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>Weo Hicks</i>
			REVERSED CURB AND GUTTER DETAIL		SCALE N.T.S.
No.	DATE	REVISION	DRAWN S. NUMEHAHL	DESIGNED N. MILLER	DATE JUNE 2015
					DWG. No. 00-03-09



CURB

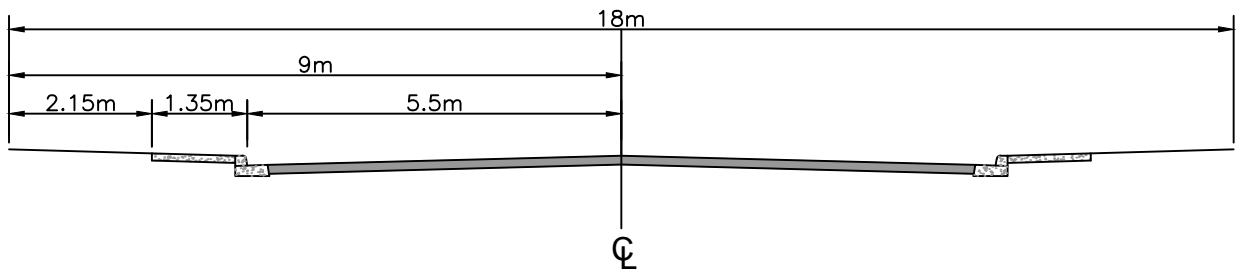


CURB & GUTTER

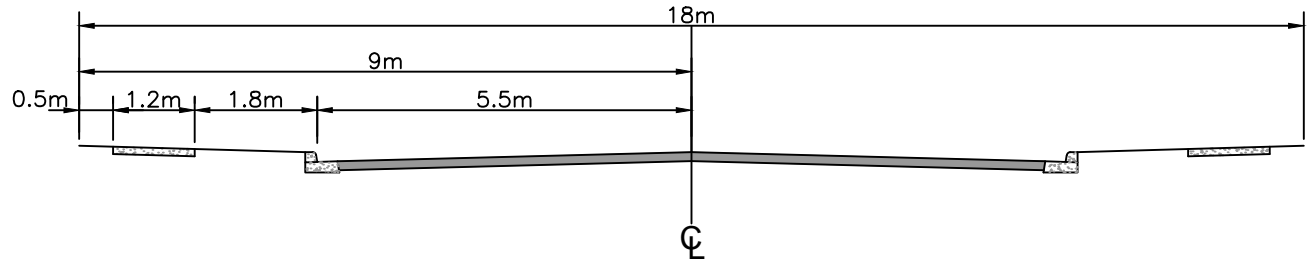
NOTES

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.

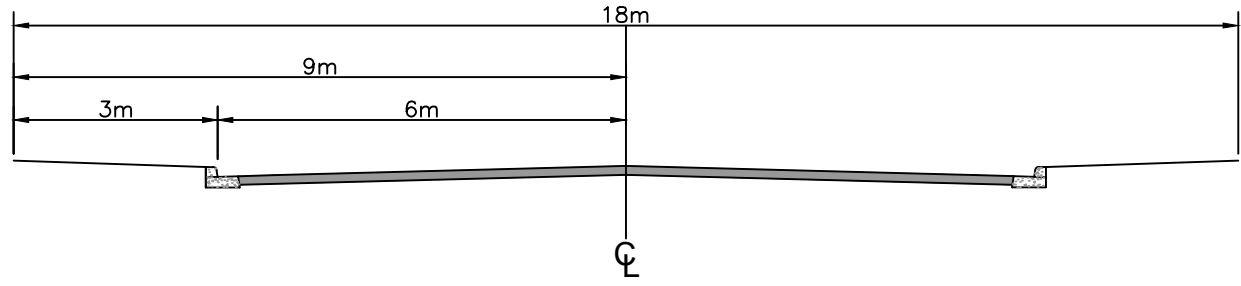
			CITY OF PRINCE ALBERT PUBLIC WORKS		APPROVED <i>Weo Hicks</i>
			GUTTER PATCH PAVING		SCALE N.T.S.
No.	DATE	REVISION	DRAWN R.REGNIER	DESIGNED M. GAREAU	DATE MAR. 2020
					DWG. No. 00-03-10



18m RIGHT OF WAY
RESIDENTIAL COMBINED WALK



18m RIGHT OF WAY
RESIDENTIAL SEPARATE WALK

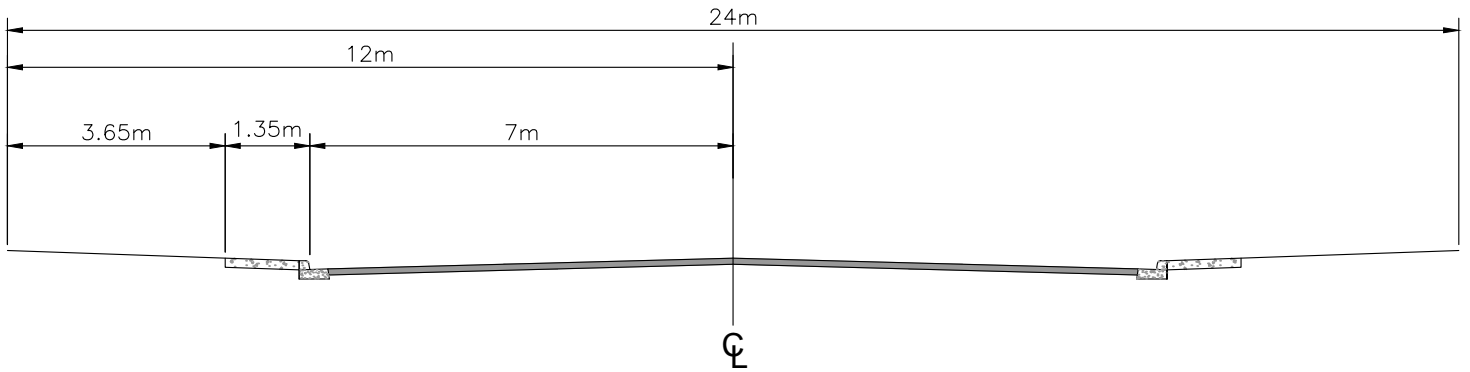


18m INDUSTRIAL RIGHT OF WAY

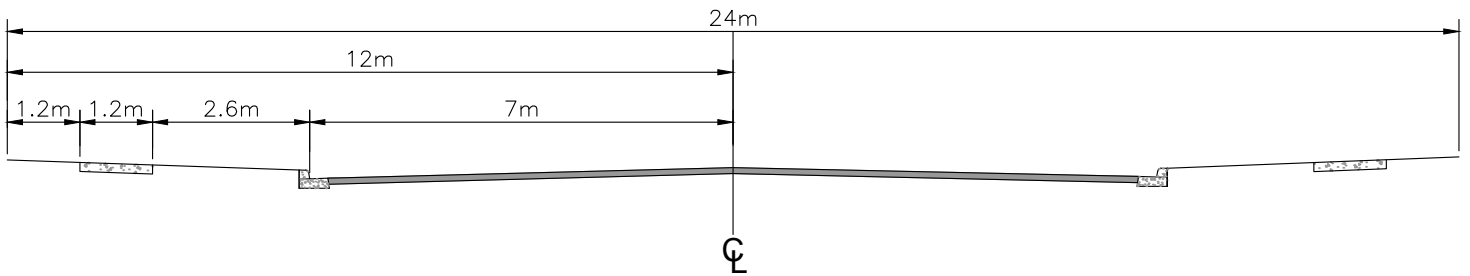
NOTES

1. DRIVING LANES – RESIDENTIAL 3.0m; INDUSTRIAL 3.5m
2. PARKING LANES – RESIDENTIAL AND INDUSTRIAL 2.5m
3. CROSS SLOPE – RESIDENTIAL 2.7%; INDUSTRIAL 2.5%

			CITY OF PRINCE ALBERT		APPROVED
			PUBLIC WORKS		<i>Wes Hicks</i>
			18m RIGHT OF WAY		SCALE
					N.T.S.
No.	DATE	REVISION	DRAWN S. NUMEDAHL	DESIGNED N. MILLER	DWG. No.
				DATE OCT. 2014	00-04-01



24m RIGHT OF WAY COMBINED WALK

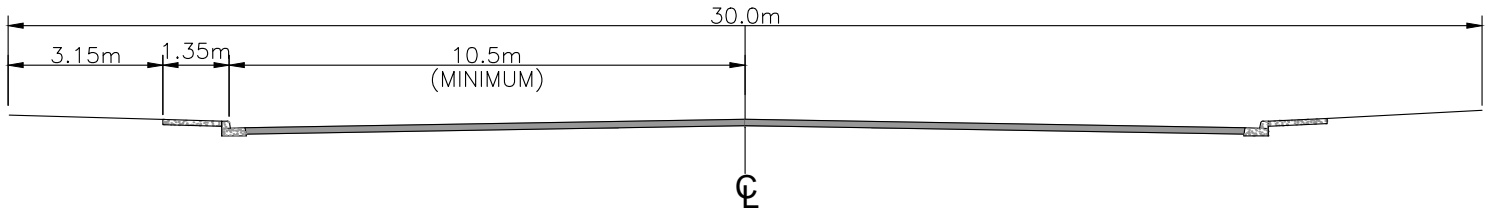


24m RIGHT OF WAY SEPARATE WALK

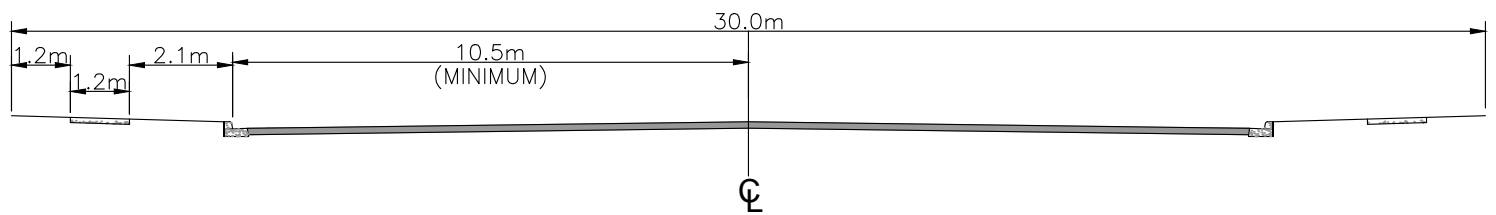
NOTES

1. DRIVING LANES 3.50m
2. PARKING LANES 3.50m
3. CROSS SLOPE MINIMUM 2.5%

			CITY OF PRINCE ALBERT		APPROVED
			PUBLIC WORKS		<i>Wes Hicks</i>
			24m COLLECTOR RIGHT OF WAY		SCALE N.T.S.
No.	DATE	REVISION	DRAWN S. NUMEDAHL	DESIGNED N. MILLER	DATE OCT. 2014
					DWG. No. 00-04-02



30m RIGHT OF WAY COMBINED WALK

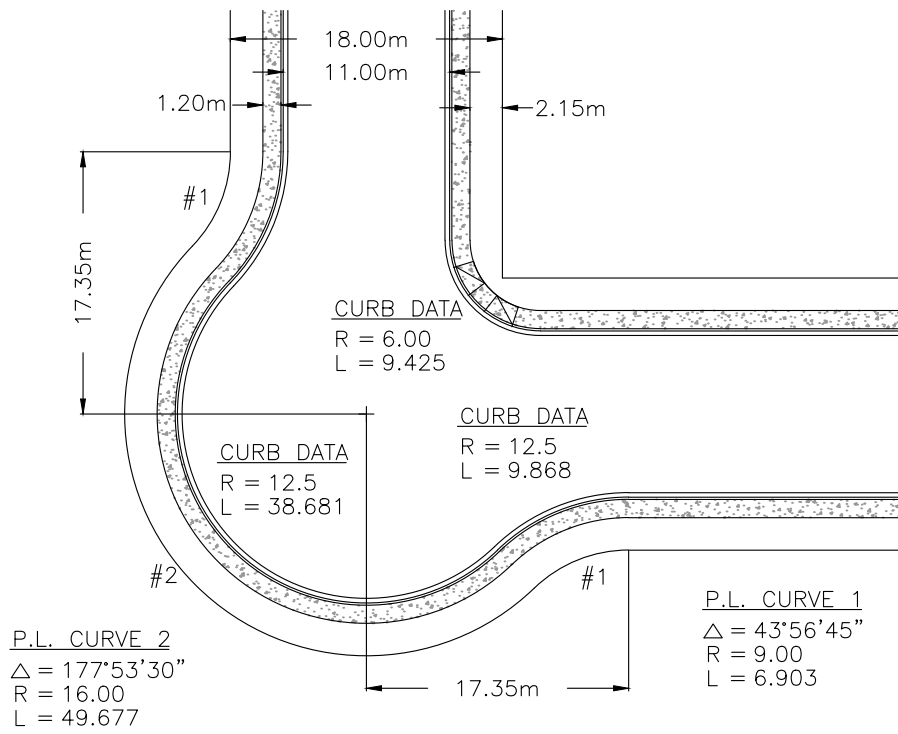


30m RIGHT OF WAY SEPARATE WALK

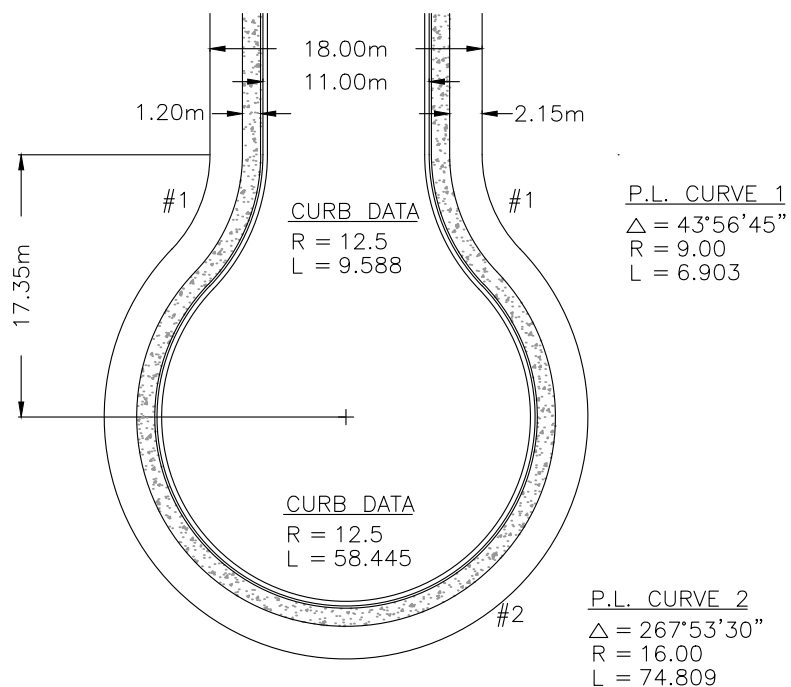
NOTES

- 1. DRIVING LANES 3.50m
- 2. PARKING LANES 3.50m
- 3. CROSS SLOPE MINIMUM 2.5%

			CITY OF PRINCE ALBERT		APPROVED
			PUBLIC WORKS		<i>Wes Hicks</i>
			30m ARTERIAL		
			RIGHT OF WAY		SCALE N.T.S.
No.	DATE	REVISION	DRAWN S. NUMEDAHL	DESIGNED N. MILLER	DATE OCT. 2014
					DWG. No. 00-04-03

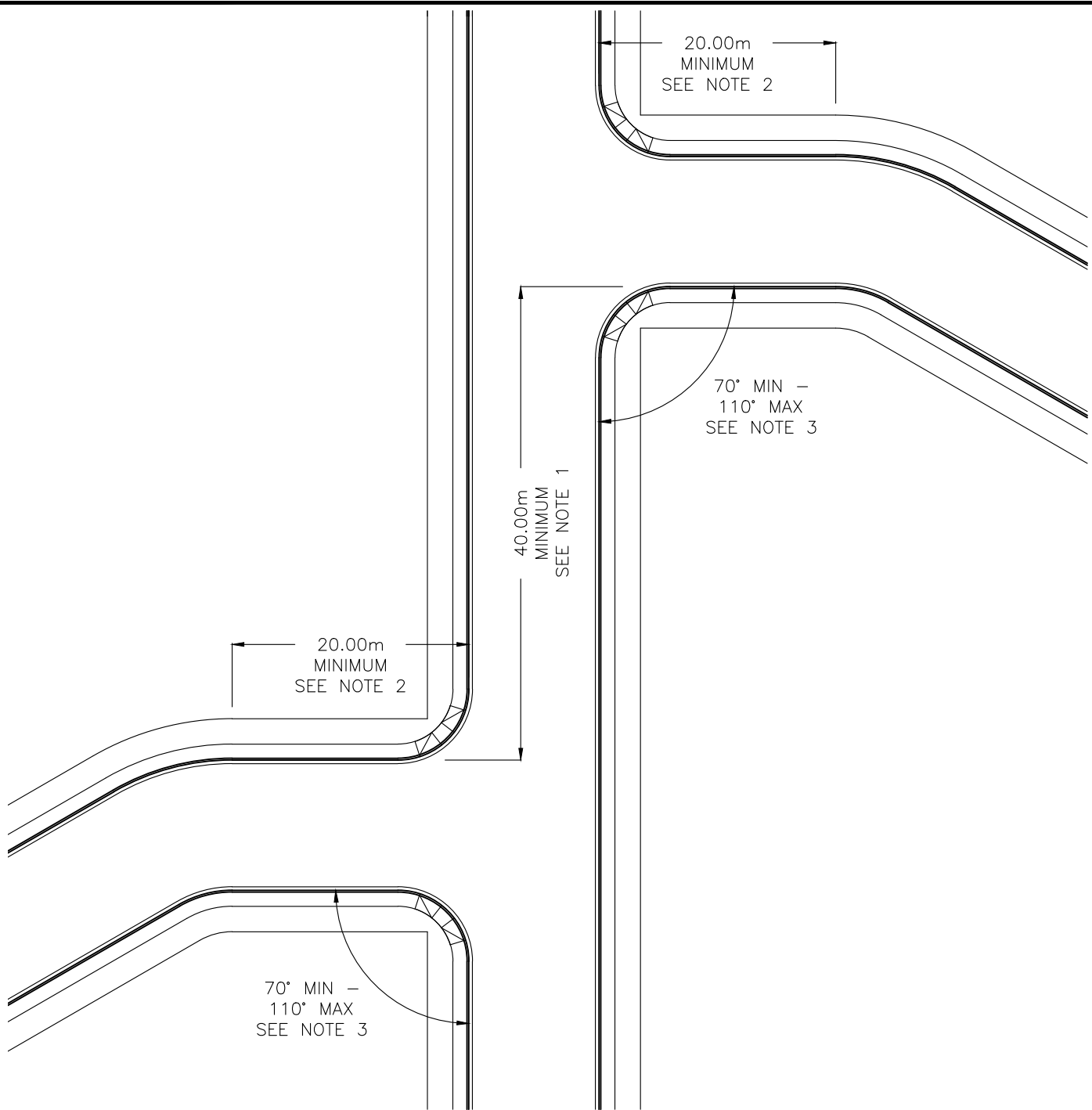


TYPICAL CRESCENT DESIGN - COMBINED WALK



TYPICAL CUL-DE-SAC DESIGN - COMBINED WALK

			CITY OF PRINCE ALBERT PUBLIC WORKS			APPROVED <i>Weo Hicks</i>
			RESIDENTIAL CRESCENT AND CUL-DE-SAC DESIGN			SCALE N.T.S.
No.	DATE	REVISION	DRAWN S. NUMEDAHL	DESIGNED N. MILLER	DATE OCT. 2014	DWG. No. 00-04-04



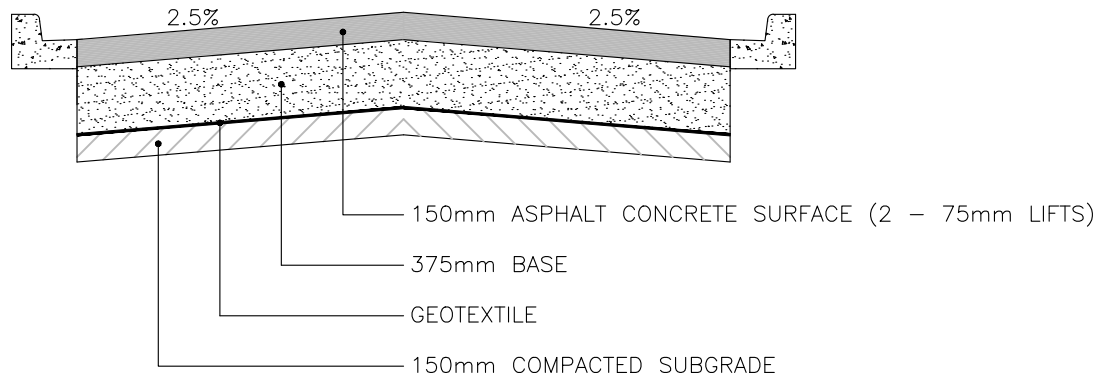
NOTES

TO PREVENT DIFFICULT MANOEUVRES AND UNSAFE CONDITIONS:

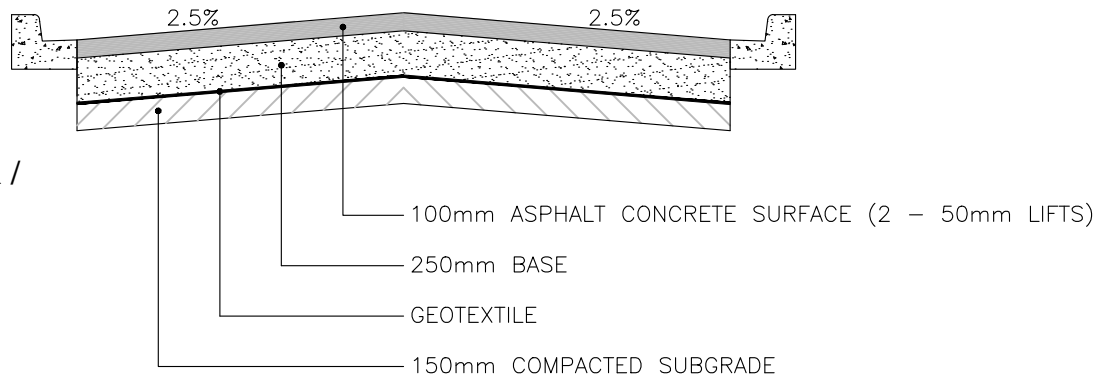
1. OFFSET DISTANCE BETWEEN INTERSECTIONS SHALL BE NOT LESS THAN 40.0m.
2. TANGENT DISTANCE FROM AN INTERSECTION TO THE FIRST CURVE SHALL BE NOT LESS THAN 20.0m
3. TANGENT ANGLE OF APPROACH TO AN INTERSECTION SHALL BE NOT LESS THAN 70° AND NOT MORE THAN 110°.

			CITY OF PRINCE ALBERT		APPROVED
			PUBLIC WORKS		<i>Wes Hicks</i>
			OFFSET INTERSECTION CONFIGURATION - LOCAL ROADS		
			SCALE N.T.S.		
No.	DATE	REVISION	DRAWN S. NUMEDAHL	DESIGNED N. MILLER	DATE OCT. 2014
			DWG. No. 00-04-05		

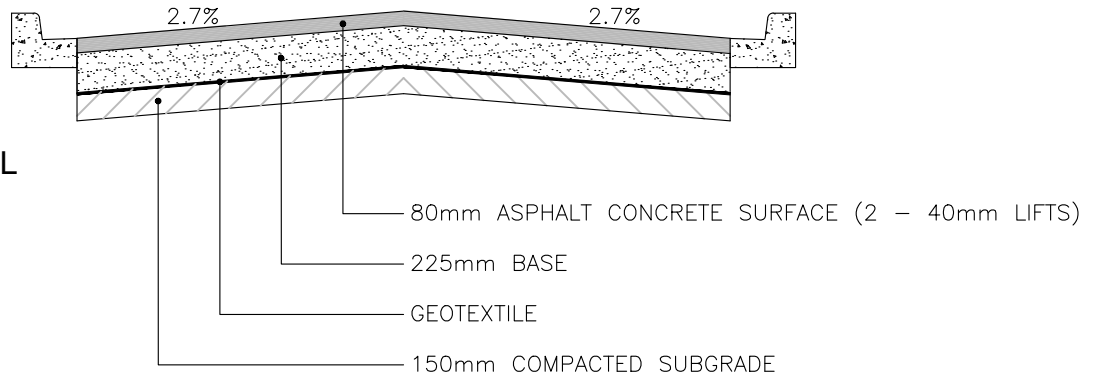
ARTERIAL



COLLECTOR / INDUSTRIAL



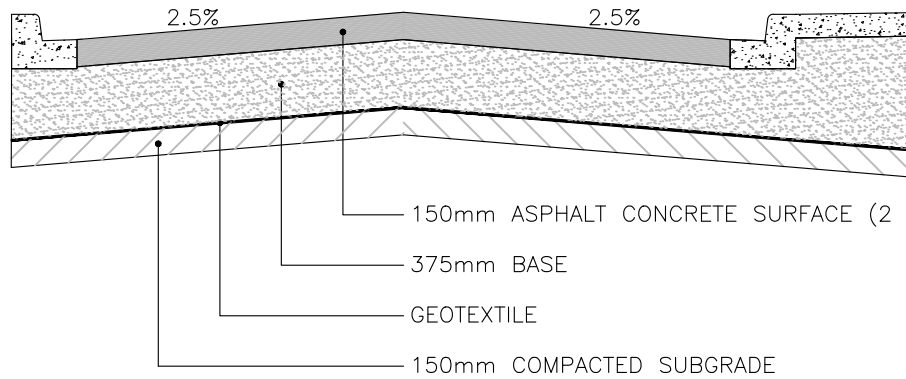
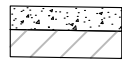
RESIDENTIAL



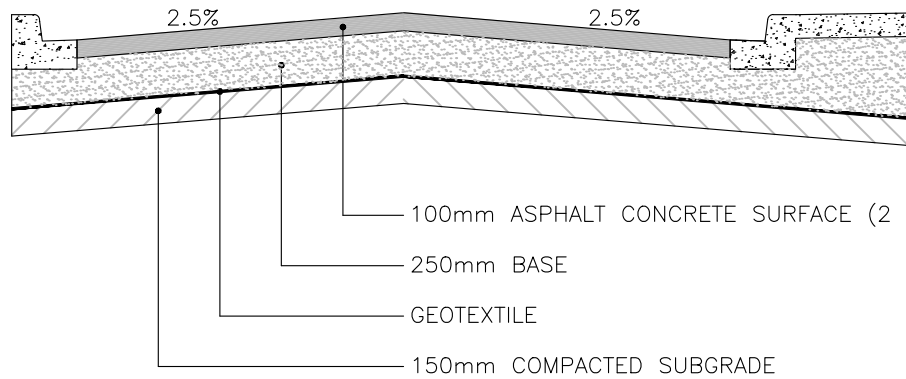
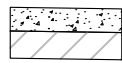
NOTES

1. ALL MATERIAL THICKNESS ARE AFTER COMPACTION
2. ALL MATERIALS TO COMPLY WITH CITY OF PRINCE ALBERT MASTER SPECIFICATIONS

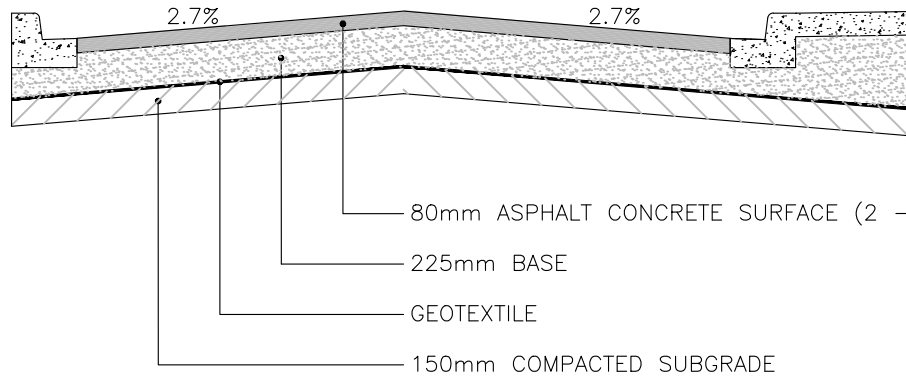
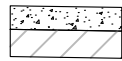
			CITY OF PRINCE ALBERT PUBLIC WORKS		APPROVED <i>Weo Hicks</i>
			REHABILITATED PAVED ROADWAY STRUCTURE		SCALE N.T.S.
1	JUN. 2016	GRADES ADDED, THICKNESSES PROPORTIONED			DWG. No. 00-04-06
No.	DATE	REVISION	DRAWN S. NUMEDAHL	DESIGNED N. MILLER	DATE OCT. 2014



ARTERIAL



COLLECTOR /
INDUSTRIAL



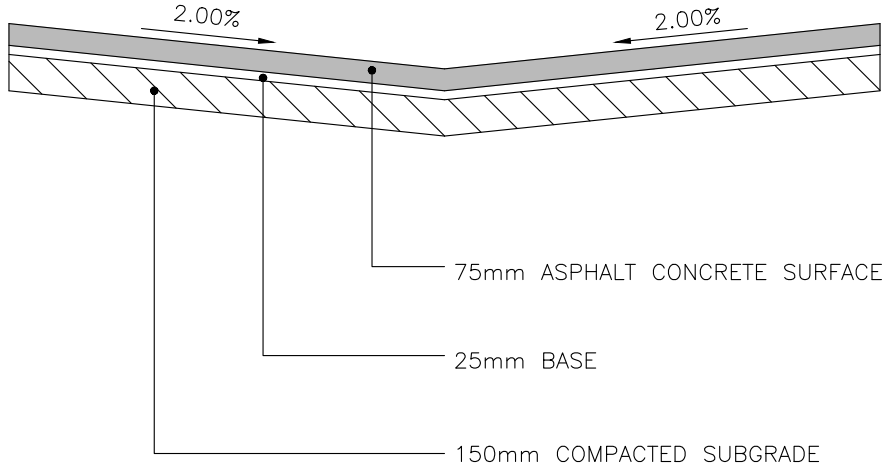
RESIDENTIAL

NOTES

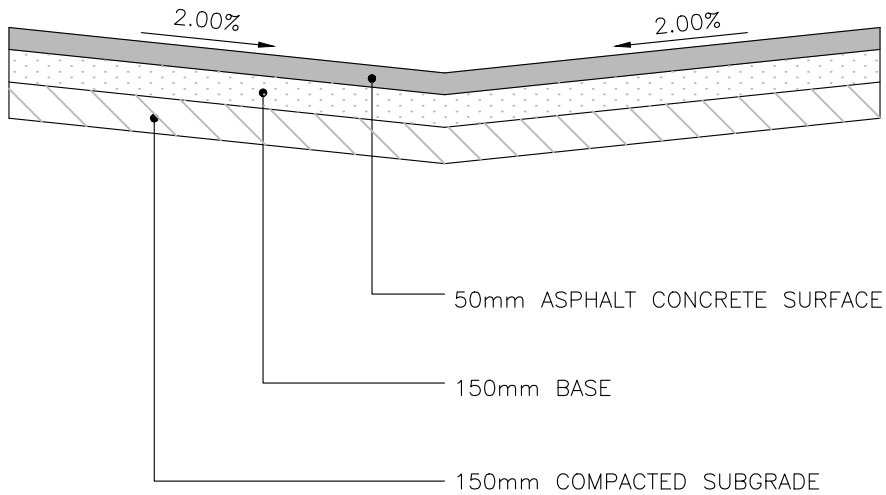
1. ALL MATERIAL THICKNESS ARE AFTER COMPACTION
2. ALL MATERIALS TO COMPLY WITH CITY OF PRINCE ALBERT MASTER SPECIFICATIONS

			CITY OF PRINCE ALBERT PUBLIC WORKS		APPROVED <i>Weo Hicks</i>
			NEW CONSTRUCTION PAVED ROADWAY STRUCTURE		SCALE N.T.S.
No.	DATE	REVISION	DRAWN L. ZHANG	DESIGNED N. MILLER	DATE JUN. 2016
					DWG. No. 00-04-06A

OPTION #1



OPTION #2

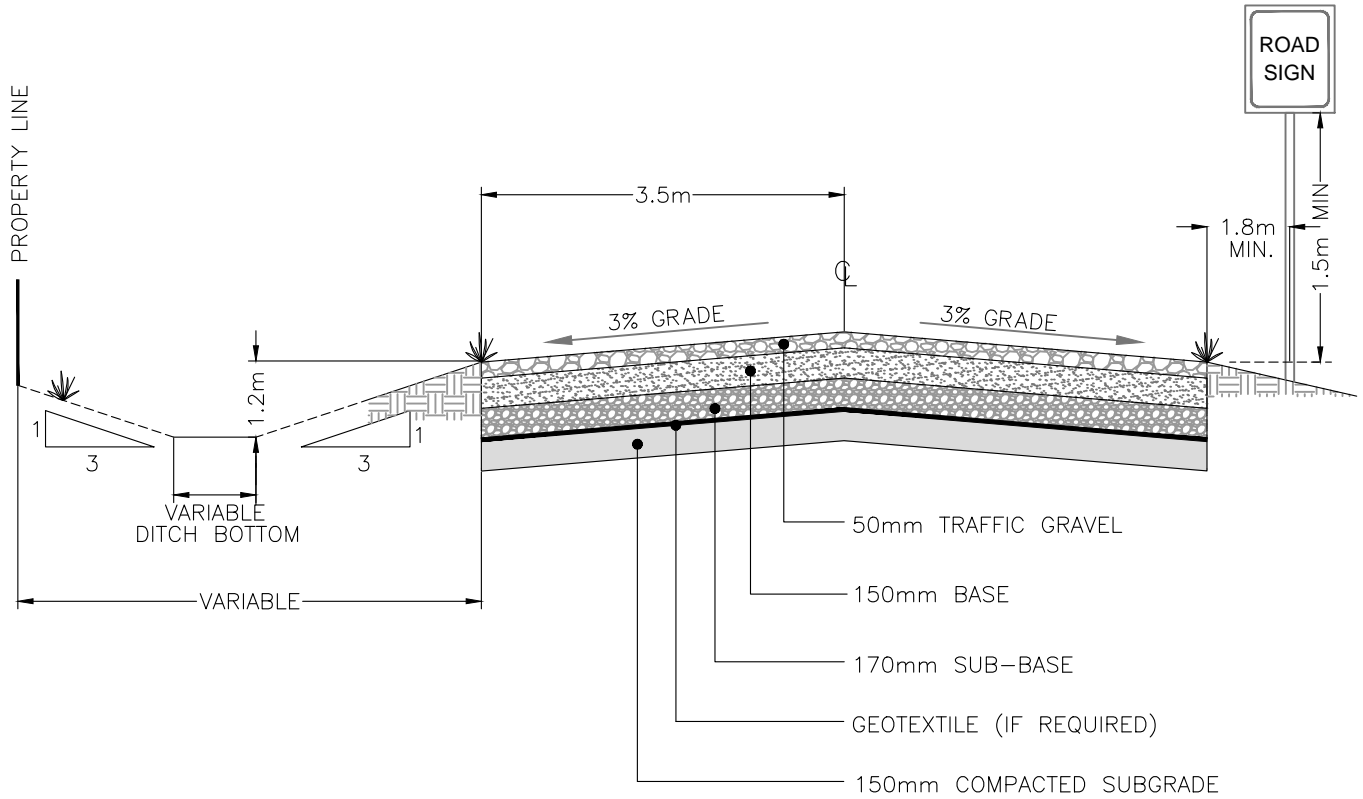


NOTES

1. OPTION #1 MAY ONLY BE USED IF THE LANE IS EXISTING AND THE STRUCTURE IS SUITABLE FOR PAVING
2. ALL MATERIALS TO COMPLY WITH CITY OF PRINCE ALBERT MASTER SPECIFICATIONS
3. ALL MATERIAL THICKNESSES ARE AFTER COMPACTION

			CITY OF PRINCE ALBERT PUBLIC WORKS		APPROVED <i>Weo Hicks</i>				
			LANE PAVEMENT STRUCTURES		SCALE N.T.S.				
1	13/6/2018	SURFACE REPAIR CLARIFICATIONS	DRAWN	S. NUMEDAHL	DESIGNED	N. MILLER	DATE	OCT. 2014	DWG. No. 00-04-07
No.	DATE	REVISION							

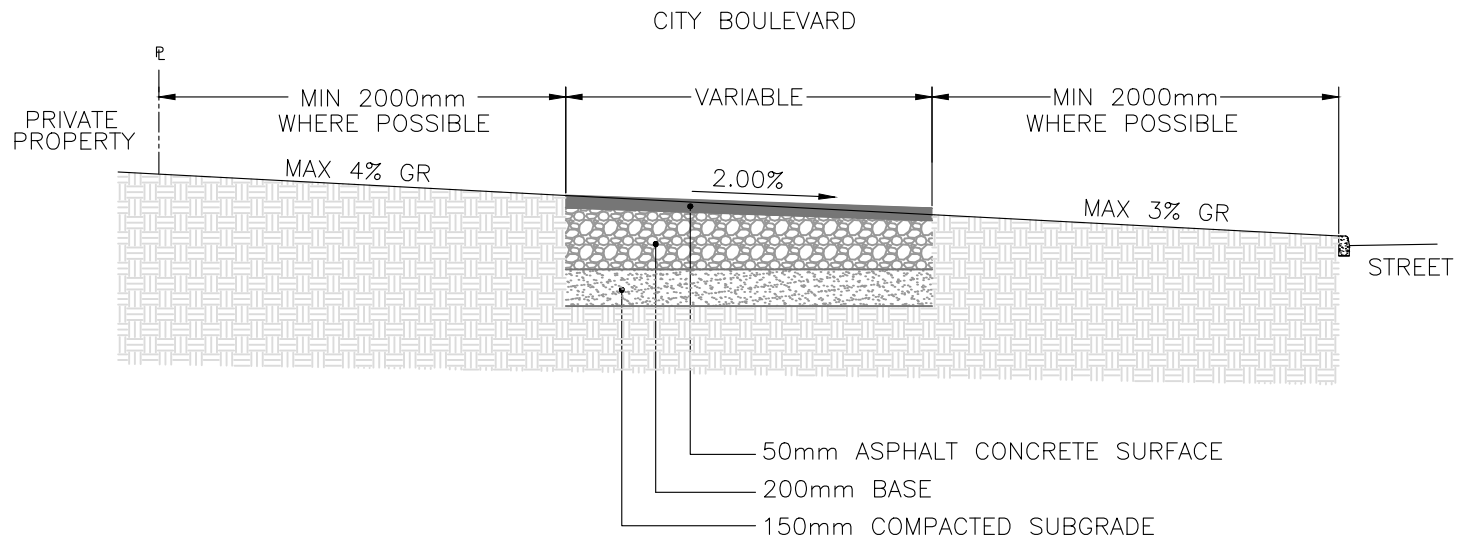
COUNTRY RESIDENTIAL SUBDIVISIONS



NOTES

1. CONTRACTOR RESPONSIBLE FOR BLENDING DITCHES TO MATCH EDGE OF PROPERTY LINE
2. DEVELOPER TO SUBMIT COMPACTION TESTS AND WASH SIEVE ANALYSIS TO THE CITY
3. GEOTEXTILE REQUIRED IF SOFT/ORGANIC SUBGRADES ARE ENCOUNTERED
4. ALL MATERIALS TO COMPLY WITH THE CITY OF PRINCE ALBERT MASTER SPECIFICATIONS
5. ALL MATERIAL THICKNESSES ARE AFTER COMPACTION

	CITY OF PRINCE ALBERT PUBLIC WORKS	APPROVED <i>Wes Hicks</i>
	GRANULAR SURFACING STRUCTURE	SCALE N.T.S.
No.	DATE	REVISION
	DRAWN S. NUMEDAHL	DESIGNED N. MILLER
	DATE OCT. 2014	
	DWG. No. 00-04-08	

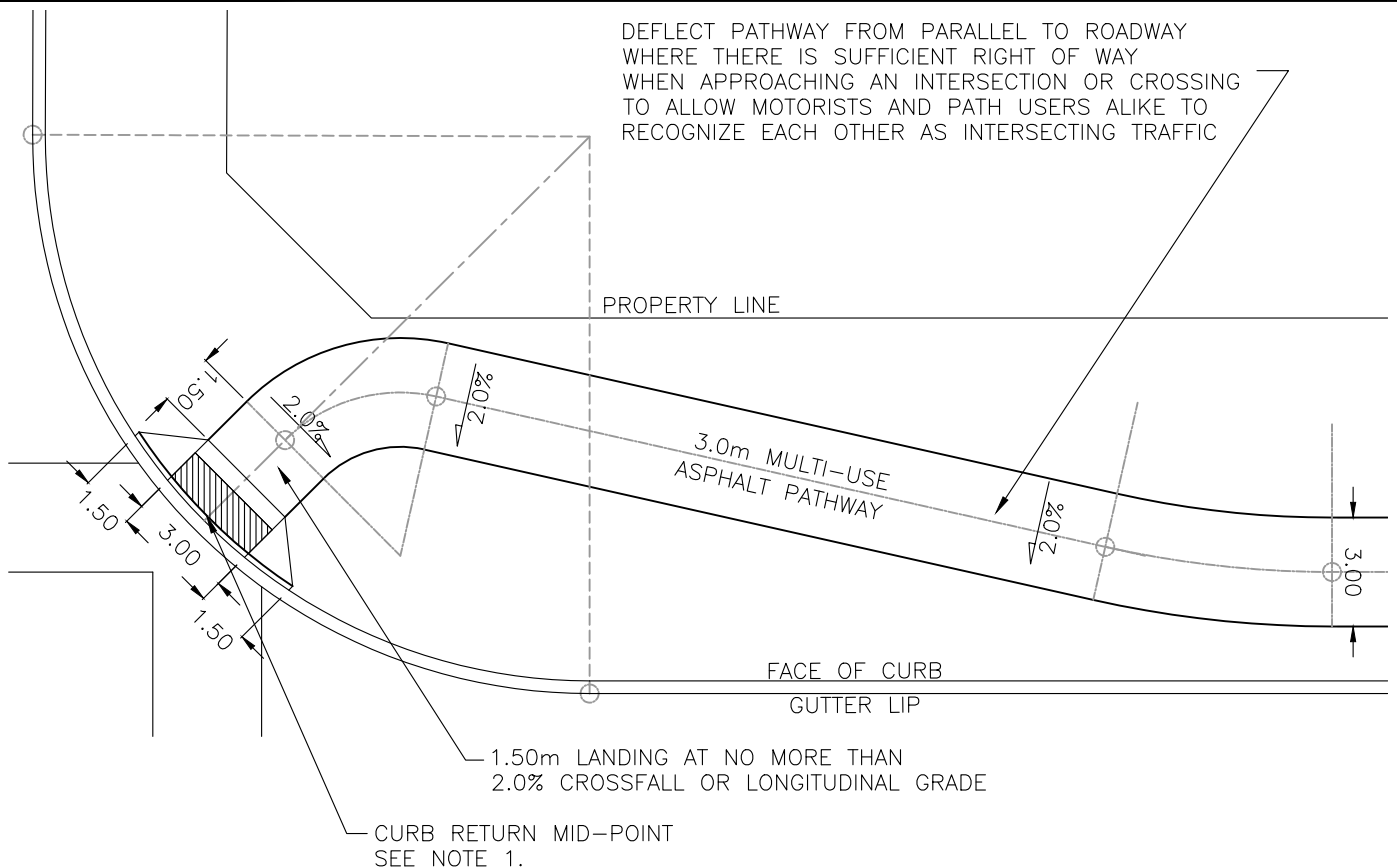


NOTES

1. PATH WIDTH: RECREATIONAL PATHWAYS 1.5m AND MULTI-USE PATHWAYS 3.0m
2. WHERE SPACE PERMITS, HORIZONTAL ALIGNMENT MAY UNDULATE TO INCORPORATE AESTHETICAL CURVES AND/OR LANDSCAPING
3. TRAFFIC CONTROL SIGNAGE, BOLLARDS, BENCHES, AND/OR DOGGY BAGS MAY BE ADDED AT DESIGNER'S DISCRETION IN ACCORDANCE WITH REQUIREMENTS
4. VERTICAL CURVES/GRADES AND CROSS-SLOPES DETERMINED BY LOCAL TOPOGRAPHY
5. ALL MATERIALS TO COMPLY WITH CITY OF PRINCE ALBERT MASTER SPECIFICATIONS

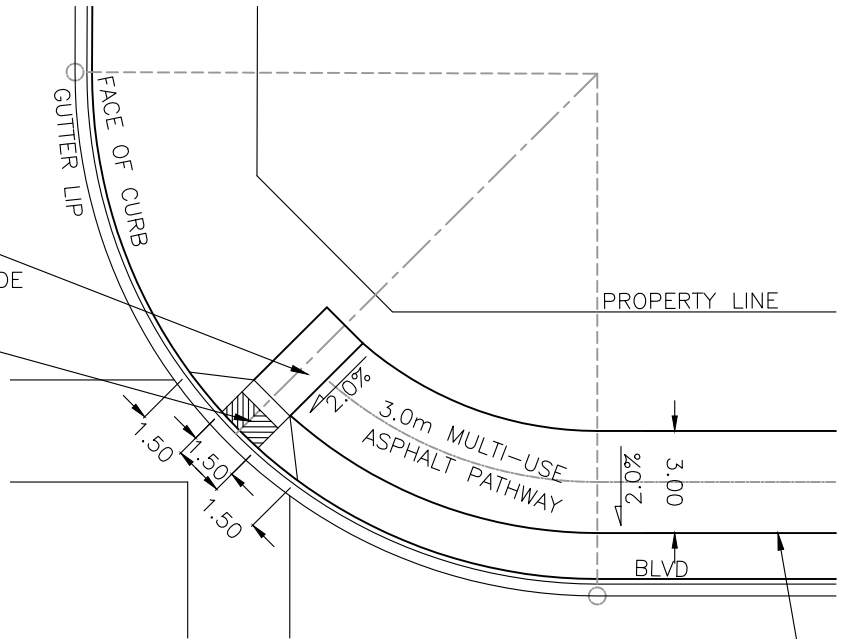
			CITY OF PRINCE ALBERT PUBLIC WORKS		APPROVED <i>Wes Hicks</i>
			TYPICAL PATHWAY STRUCTURES		SCALE N.T.S.
1	11/6/2018	SURFACE REPAIR CLARIFICATIONS	DRAWN S. NUMEDAHL	DESIGNED N. MILLER	DWG. No. 00-04-09
No.	DATE	REVISION	DATE OCT. 2014		

DEFLECT PATHWAY FROM PARALLEL TO ROADWAY WHERE THERE IS SUFFICIENT RIGHT OF WAY WHEN APPROACHING AN INTERSECTION OR CROSSING TO ALLOW MOTORISTS AND PATH USERS ALIKE TO RECOGNIZE EACH OTHER AS INTERSECTING TRAFFIC



1.50m LANDING AT NO MORE THAN 2.0% CROSSFALL OR LONGITUDINAL GRADE

CURB RETURN MID-POINT
SEE NOTE 1

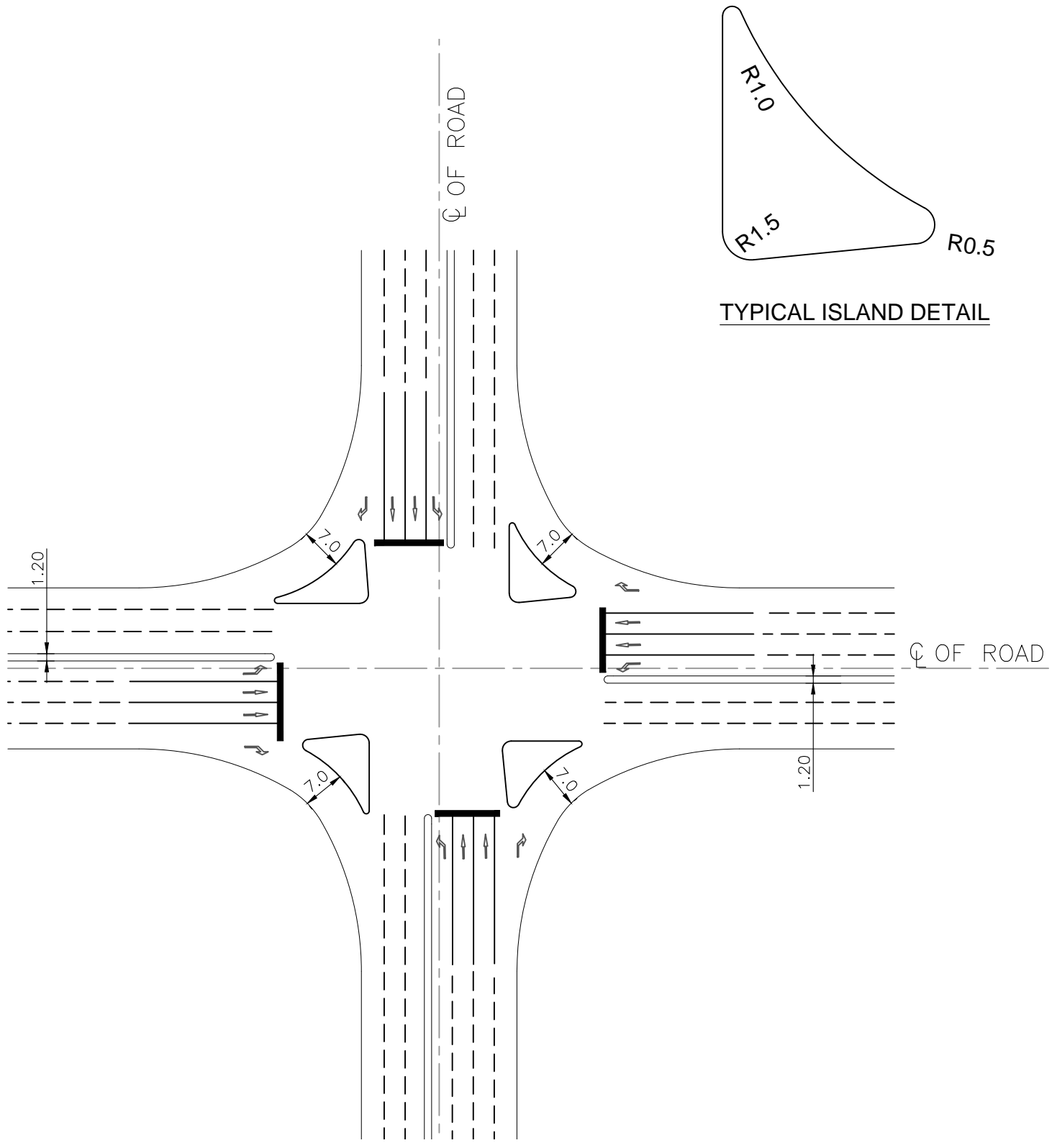


PATHWAY FRONT EDGE OFFSET
MIN 1.5m FROM FACE OF CURB

NOTES

1. DETECTABLE WARNING SURFACE SHALL BE AT LEAST 900mm LONG AND OF A TEXTURE THAT CONTRASTS SURROUNDING WALKING SURFACES.
2. WARNING SURFACE SHALL BE SLIP RESISTANT AND HAVE A SMOOTH TRANSITION WITH ADJACENT SURFACES.

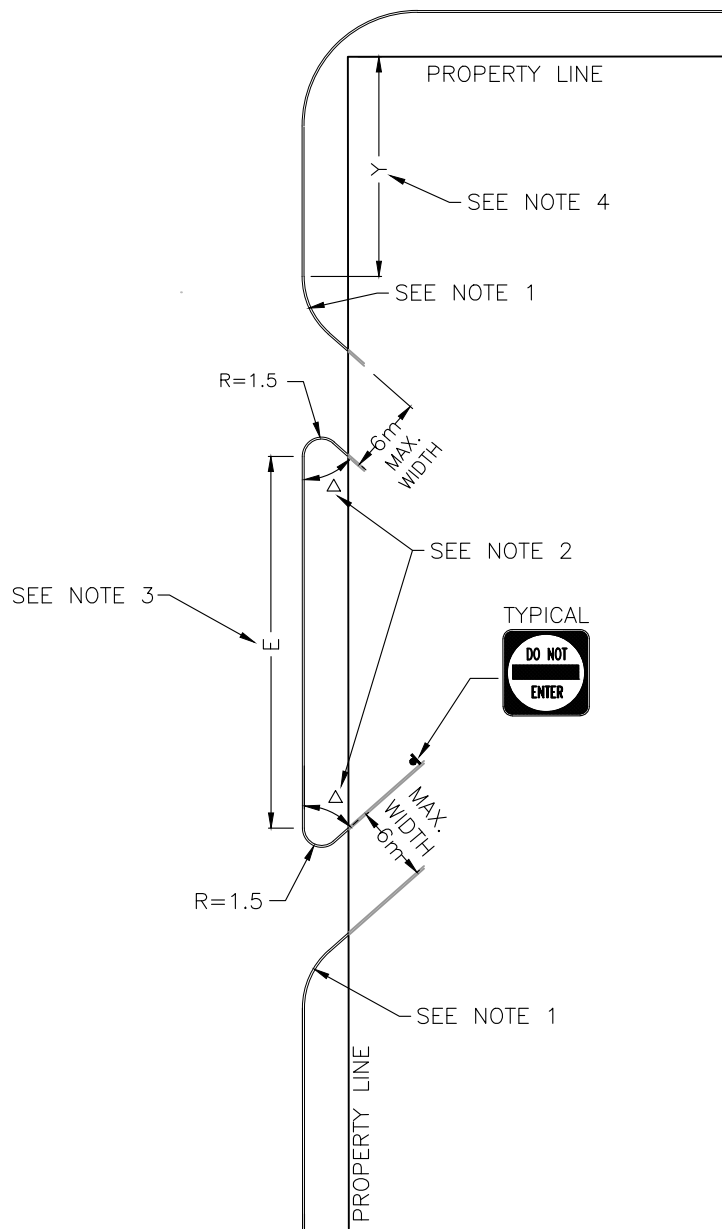
			CITY OF PRINCE ALBERT PUBLIC WORKS		APPROVED <i>Wes Hicks</i>
			MULTI-USE TRAIL PATHWAY RAMP CONFIGURATIONS		SCALE N.T.S.
No.	DATE	REVISION	DRAWN S. NUMEDAHL	DESIGNED N. MILLER	DWG. No. 00-04-10
				DATE OCT. 2014	



TYPICAL ISLAND DETAIL

TYPICAL INTERSECTION

			CITY OF PRINCE ALBERT		APPROVED
			PUBLIC WORKS		<i>Wes Hicks</i>
			TYPICAL ISLAND DESIGN		SCALE N.T.S.
No.	DATE	REVISION	DRAWN S. NUMEDAHL	DESIGNED N. MILLER	DWG. No. 00-04-11
				DATE OCT. 2014	

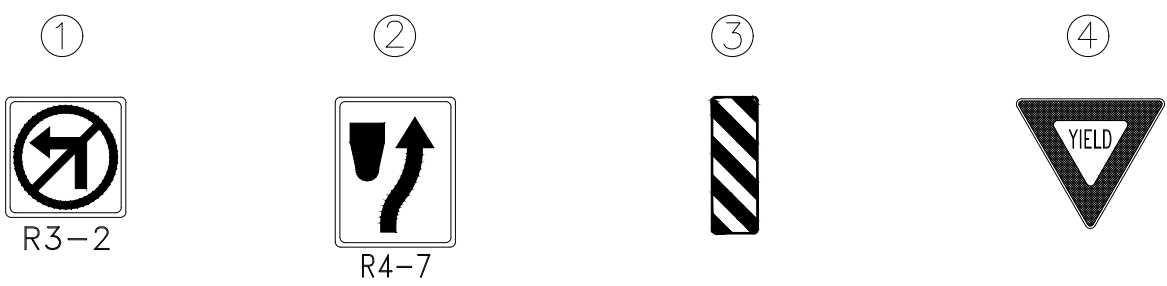
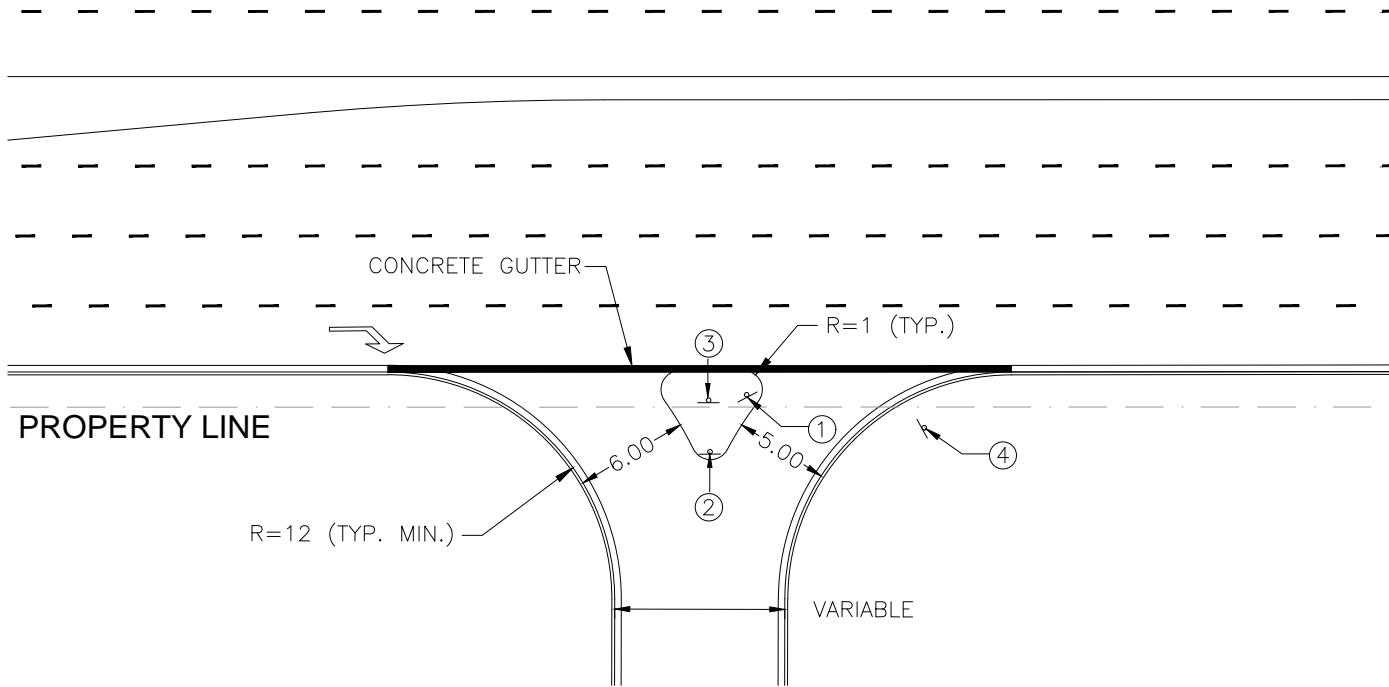


RIGHT IN or RIGHT OUT ONLY CROSSING

NOTES

1. RADIUS 4.5m TO 12m FOR COMMERCIAL CROSSING
RADIUS 6.0m TO 15m FOR INDUSTRIAL CROSSING
2. Δ 60° TO 70° FOR COMMERCIAL CROSSING
45° TO 60° FOR INDUSTRIAL CROSSING
MINIMUM ANGLE OF 70° WHERE PEDESTRIANS ROUTINELY CROSS
3. MINIMUM 25m BETWEEN DRIVEWAYS
4. MINIMUM 30m

			CITY OF PRINCE ALBERT		APPROVED
			PUBLIC WORKS		<i>Wes Hicks</i>
			TYPICAL RIGHT IN OR RIGHT OUT ONLY CROSSING DETAIL		
			SCALE N.T.S.		
No.	DATE	REVISION	DRAWN S. NUMEDAHL	DESIGNED N. MILLER	DATE OCT. 2014
			DWG. No. 00-04-12		

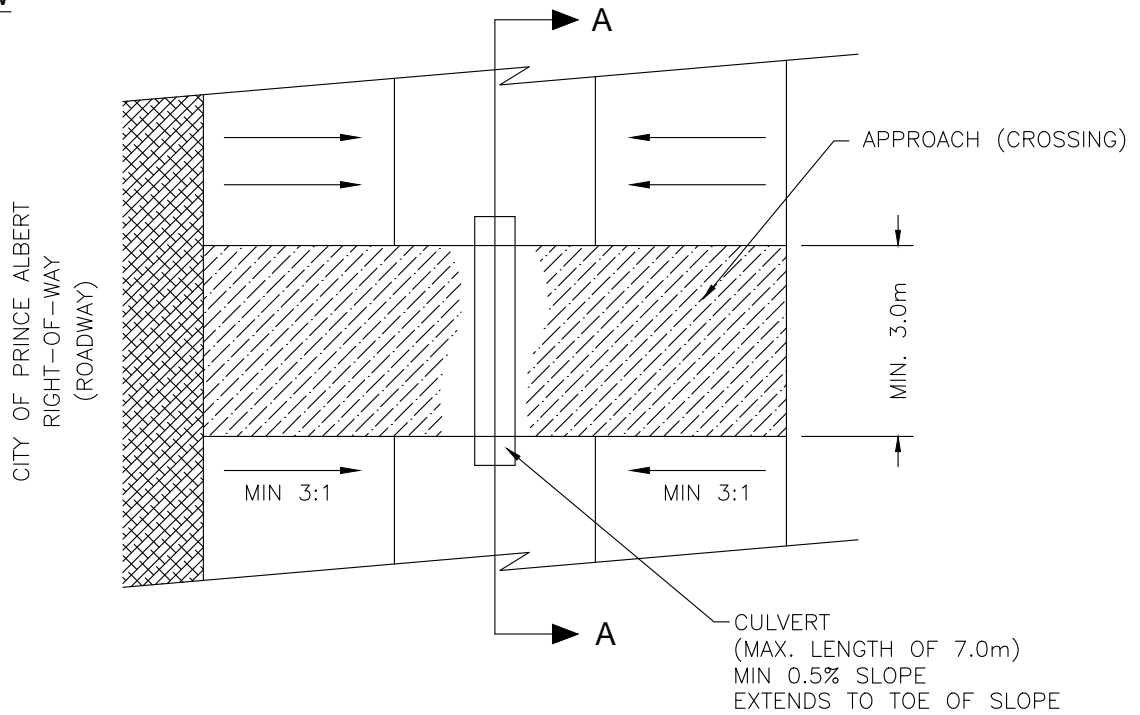


NOTES

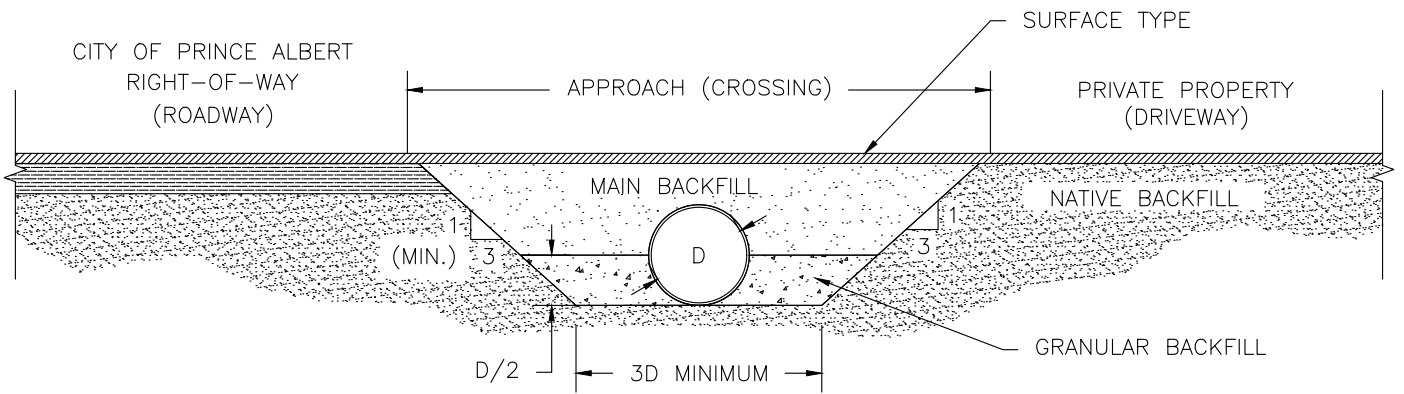
1. MINIMUM ISLAND RADIUS = 1m
2. LIGHT VEHICLE USAGE, MINIMUM RIGHT IN/RIGHT OUT LANE WIDTH = 5m
3. HEAVY VEHICLES USAGE, MINIMUM LANE WIDTH = 7m
4. OFFSET FROM LANE EDGE MAY BE GREATER DEPENDING ON DRAINAGE

			CITY OF PRINCE ALBERT PUBLIC WORKS		APPROVED <i>Weo Hicks</i>
			TYPICAL RIGHT IN RIGHT OUT ISLAND DEDICATED AUXILIARY LANE		SCALE N.T.S.
No.	DATE	REVISION	DRAWN S. NUMEDAHL	DESIGNED N. MILLER	DATE OCT. 2014
					DWG. No. 00-04-13

PLAN VIEW



SECTION A-A

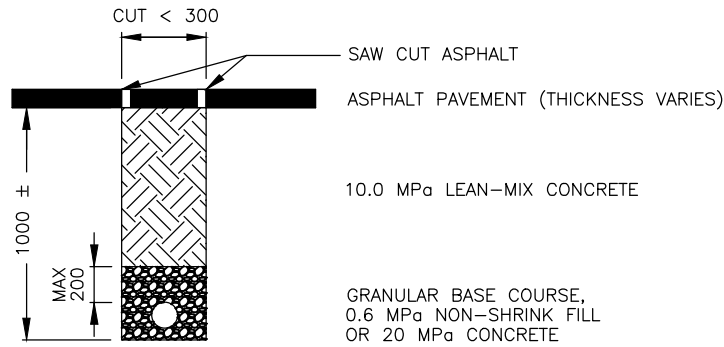


NOTES

1. ALL MATERIALS MUST COMPLY WITH CITY OF PRINCE ALBERT MASTER SPECIFICATIONS

			CITY OF PRINCE ALBERT PUBLIC WORKS		APPROVED <i>Weo Hicks</i>
			STANDARD RURAL CROSSING REQUIREMENTS		SCALE N.T.S.
No.	DATE	REVISION	DRAWN S. NUMEDAHL	DESIGNED N. MILLER	DATE OCT. 2014
					DWG. No. 00-04-14

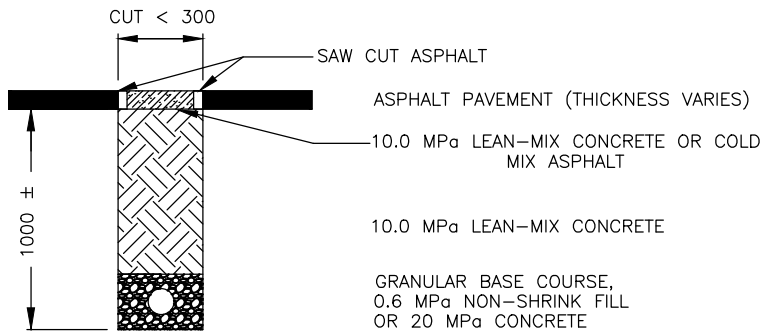
SUMMER WORK CONDITIONS



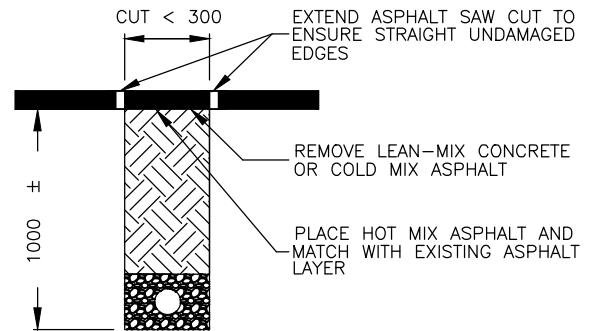
RESTORATION PROCEDURE

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

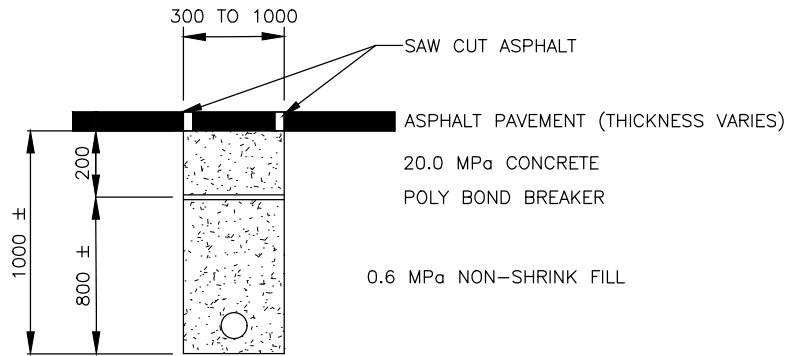
1. ALL PAVEMENT EDGES ARE TO BE SAW CUT.
2. ALL SNOW, ICE AND EXCAVATED MATERIAL IS TO BE HAULED TO AN APPROVED DISPOSAL AREA OFF SITE.
3. THE COMPANY MAY PLACE GRANULAR BASE COURSE OR CONCRETE AROUND THE UTILITY.
4. LEAN-MIX CONCRETE WITH A MAXIMUM STRENGTH OF 10.0MPa CAN BE USED FROM BOTTOM OF TRENCH 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

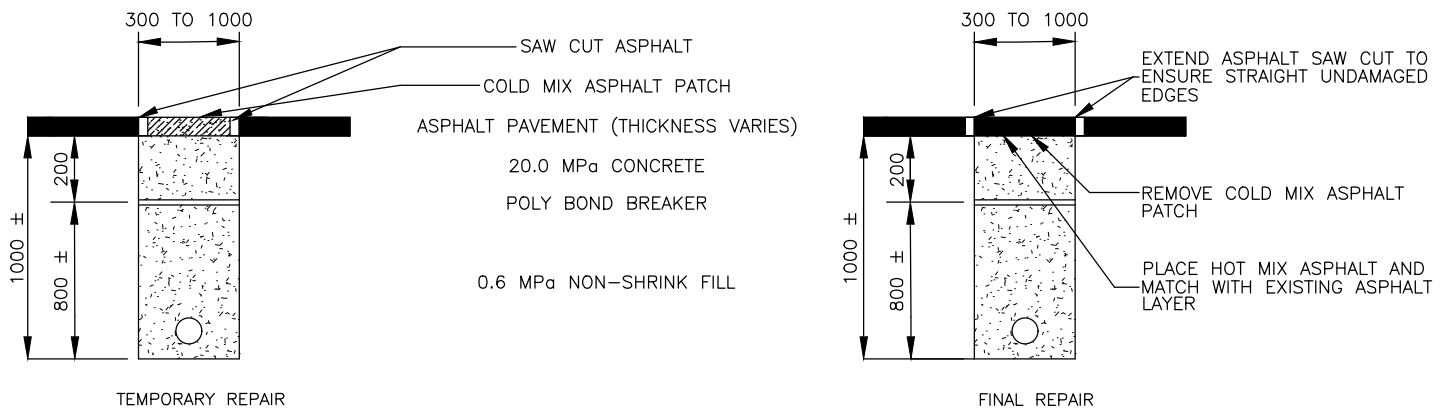
SUMMER WORK CONDITIONS



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

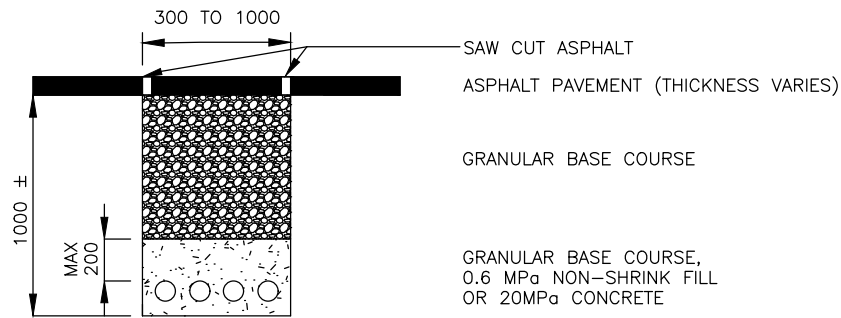
1. ALL PAVEMENT EDGES ARE TO BE SAW CUT.
2. ALL SNOW, ICE AND EXCAVATED MATERIAL IS TO BE HAULED TO AN APPROVED DISPOSAL AREA OFF SITE.
3. 0.6 MPA NON-SHRINK FILL MUST BE USED FROM BOTTOM OF TRENCH TO 200MM BELOW THE BOTTOM OF FINISHED PAVEMENT SURFACE.
4. PLACE A POLYETHYLENE BOND BREAKER BETWEEN THE 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

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 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

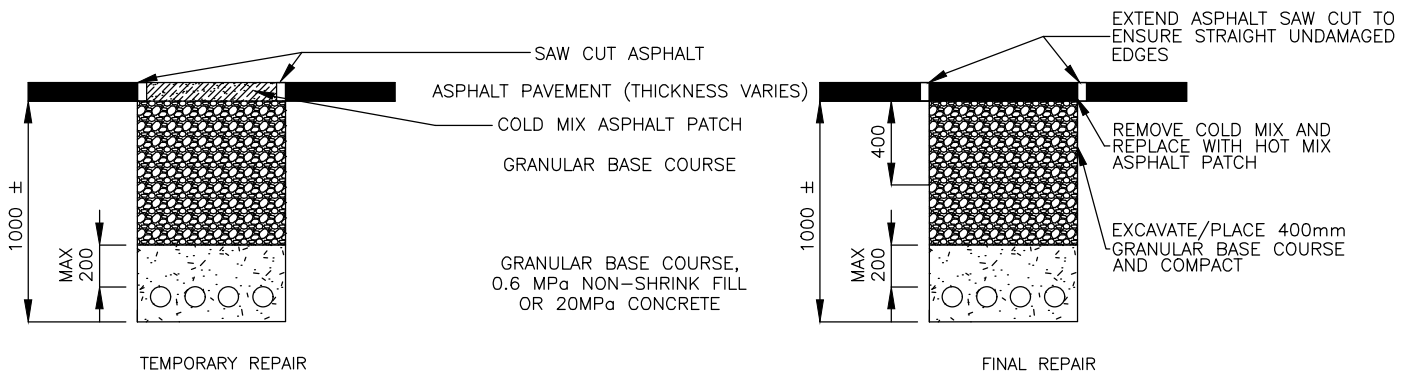
SUMMER WORK CONDITIONS



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

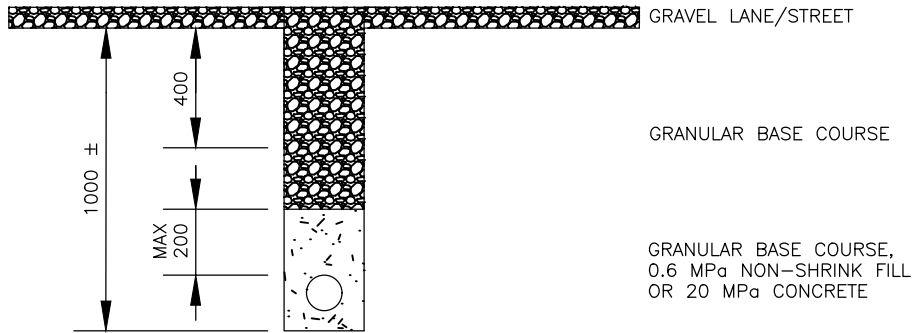
1. ALL PAVEMENT EDGES ARE TO BE SAW CUT.
2. ALL SNOW, ICE AND EXCAVATED MATERIAL IS TO BE HAULED TO AN APPROVED DISPOSAL AREA OFF SITE.
3. THE COMPANY MAY PLACE GRANULAR BASE COURSE OR 0.6 MPA NON-SHRINK FILL OR 20 MPA CONCRETE AROUND THE UTILITY TO A MAXIMUM OF 200 MM ABOVE THE UTILITY.
4. GRANULAR 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>Weo 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

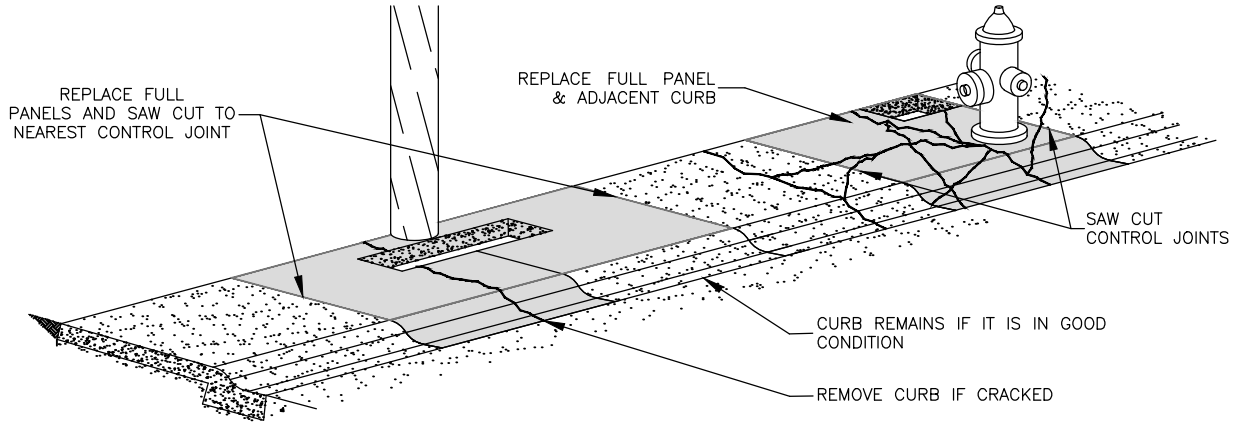
1. ALL SNOW, ICE AND EXCAVATED MATERIAL IS TO BE HAULED TO AN APPROVED DISPOSAL AREA OFF SITE
2. THE COMPANY MAY PLACE GRANULAR BASE COURSE OR 0.6 MPA NON-SHRINK FILL OR 20 MPA CONCRETE AROUND THE UTILITY TO A MAXIMUM OF 200 MM ABOVE THE UTILITY.
3. GRANULAR BASE COURSE TO BE PLACED UP TO THE TOP OF 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>Weo 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

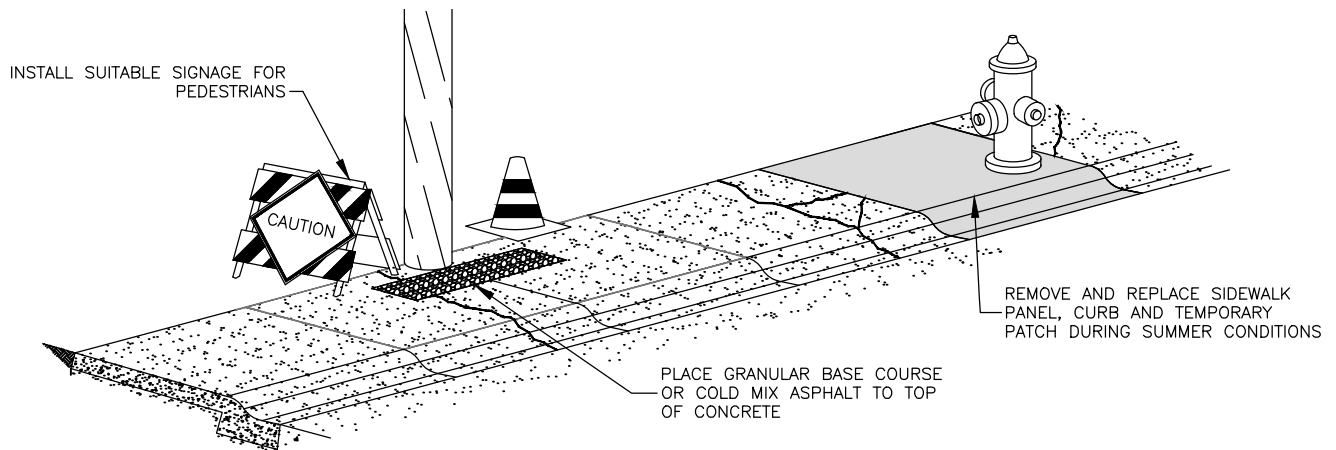
1. REMOVE CONCRETE PANELS AND CURB LENGTHS TO THE NEAREST CONTROL JOINT THAT IS DISTURBED BY A UTILITY CUT, INCLUDING PANELS OR CURBS UNDERMINED DUE TO THE CUT.
2. FOR UTILITY CUTS IN MONOLITHIC SIDEWALKS, REMOVE THE CURB WITH THE SIDEWALK, UNLESS THE CURB IS IN GOOD CONDITION (NO CRACKS).
3. BEFORE 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>Weo 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	

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.

What do you need?

City Utilities Locates

Requested: Not Requested:

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: Self-Performed Closure: None Needed:

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? Road Walk Lane City Boulevard (Lawn) 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? _____ | SaskEnergy | SaskPower | 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: _____

Utility Cut Completion and Acceptance:

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 2-year time period.

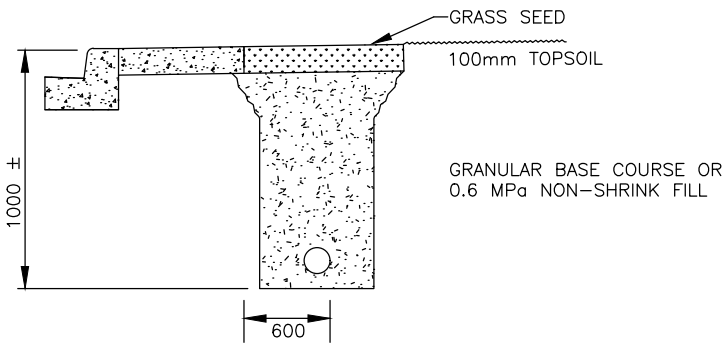
Owner/Contractor Signature: _____ Date: _____

Section filled by **PUBLIC WORKS:**

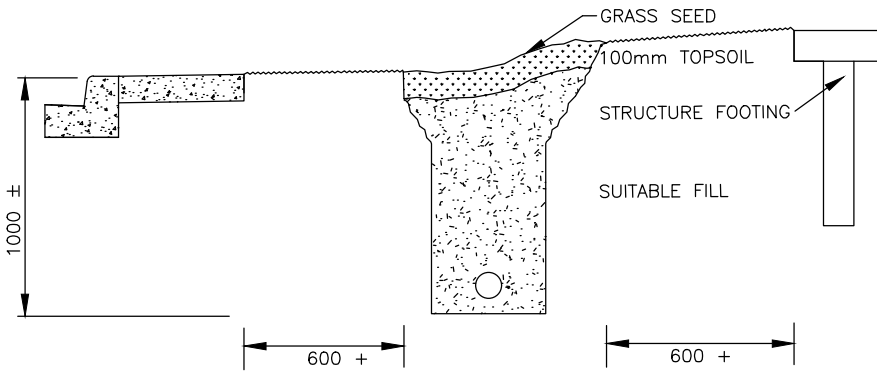
Restoration Acceptance:

Per: _____

Date: _____



UTILITY CUT WITHIN 600mm OF SIDEWALK/STRUCTURE



UTILITY CUT 600mm FROM SIDEWALK/STRUCTURE

GENERAL NOTES

- ALL BURIED UTILITY CUTS AND RESTORATIONS MUST BE REPORTED TO PUBLIC WORKS AND FOLLOW PROCEDURES AS PER MASTER SPECIFICATIONS 6100: SHALLOW BURIED UTILITIES.
- 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

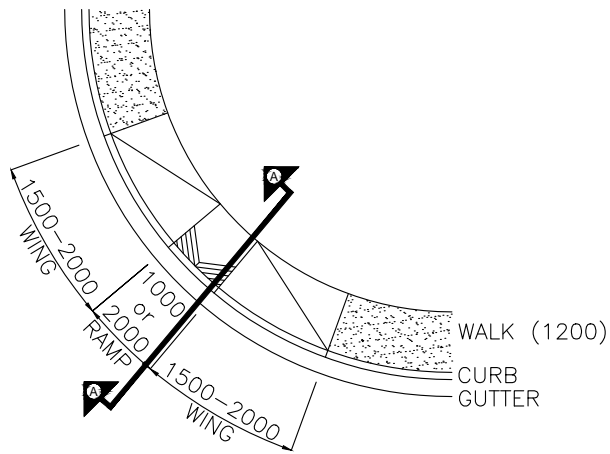
- ALL EXCAVATED MATERIAL WILL BE HAULED AND DISPOSED BY THE COMPANY.
- IF THE CUT IS WITHIN 600MM OF A SIDEWALK OR A STRUCTURE, GRANULAR BASE COURSE WILL BE PLACED IN 150MM LIFTS (MAXIMUM), COMPACTED TO 95% OF STANDARD PROCTOR DENSITY OR 0.6 MPA NON-SHRINK FILL WILL BE USED TO A DEPTH OF 100MM BELOW 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

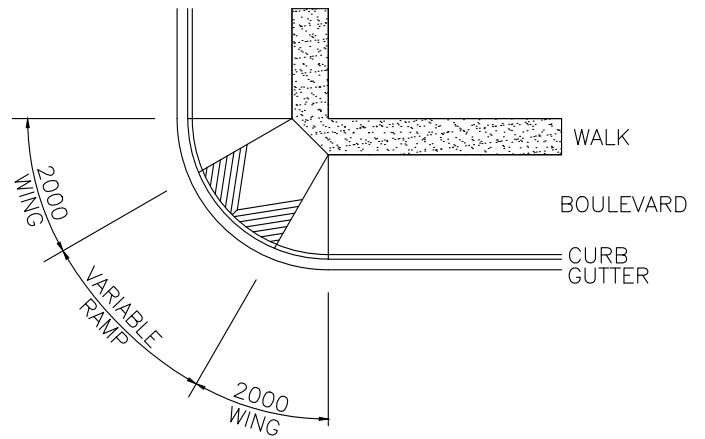
RESTORATION PROCEDURE

- 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.

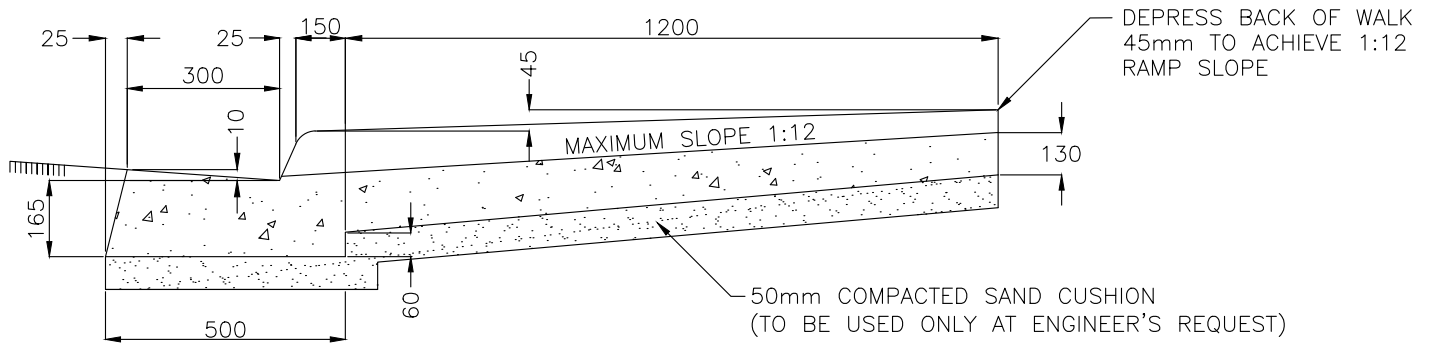
			CITY OF PRINCE ALBERT PUBLIC WORKS			APPROVED <i>Wes Hicks</i>			
			SHALLOW BURIED UTILITY REPAIR TYPICAL BOULEVARD AND PARK CUT					SCALE N.T.S.	
2	FEB 2020	REVISED SPECIFICATIONS	DRAWN R.REGNIER			DESIGNED M.GAREAU		DATE FEB 2020	
1	NOV 2018	REVISED SPECIFICATIONS							
No.	DATE	REVISION	DRAWN R.REGNIER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



COMBINED WALK, CURB & GUTTER



SEPARATE WALK, CURB & GUTTER

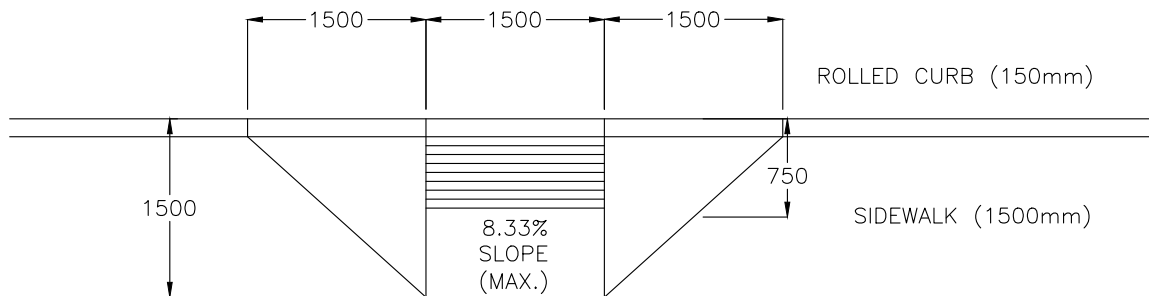
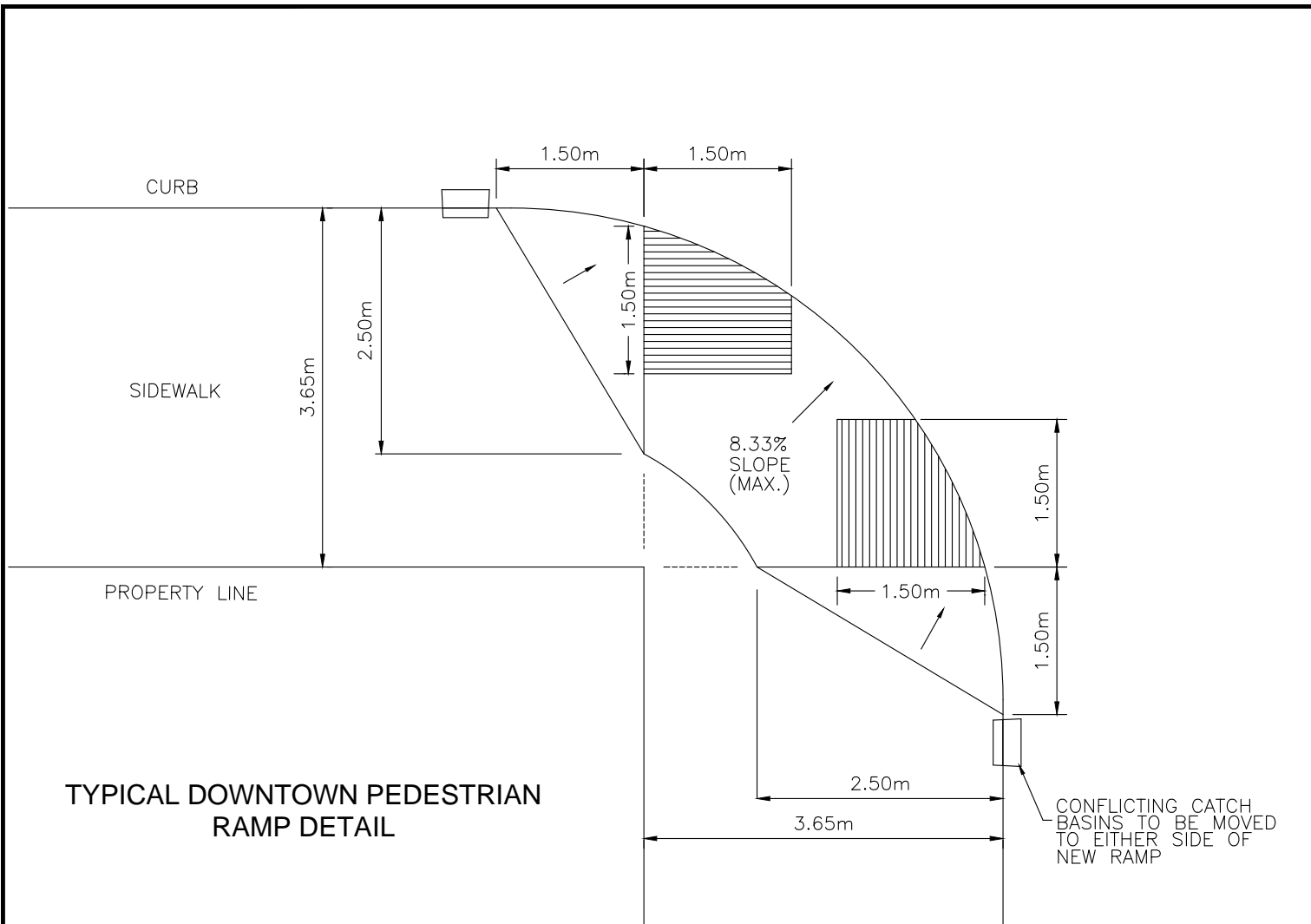


SECTION A-A

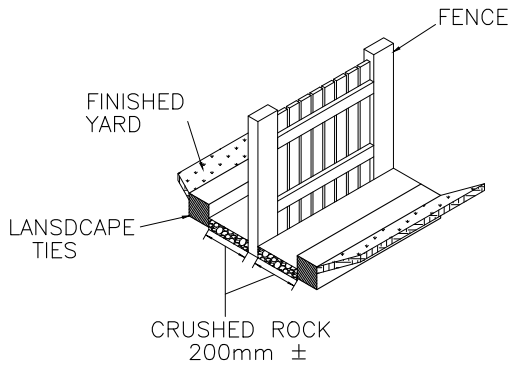
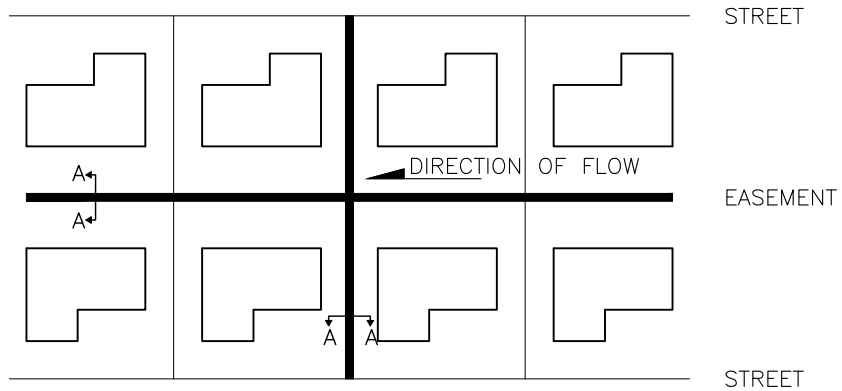
NOTES

1. CURB RAMPS SHALL BE CONSTRUCTED AT ALL INTERSECTIONS
2. CONCRETE COMPRESSIVE STRENGTH = 32mpa
3. MAXIMUM AGGREGATE SIZE = 20mm
4. MAXIMUM SLUMP = 75mm
5. MINIMUM RAMP WIDTH = 1000mm; WHERE A CATCH BASIN IS LOCATED WITHIN THE RAMP'S PATH, RAMP WIDTH SHALL BE 2000mm
6. ALL DIMENSIONS ARE IN 'mm' UNLESS OTHERWISE INDICATED

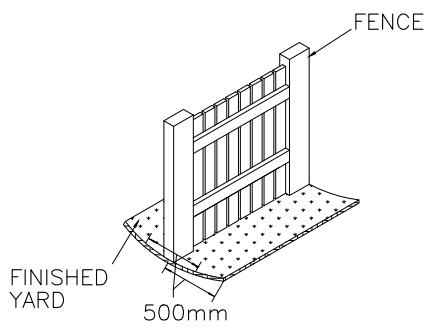
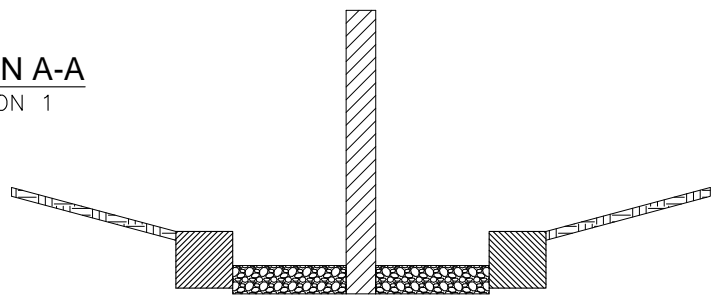
			CITY OF PRINCE ALBERT PUBLIC WORKS		APPROVED <i>Weo Hicks</i>
			RAMP DETAIL - 1		SCALE N.T.S.
No.	DATE	REVISION	DRAWN S. NUMEDAHL	DESIGNED N. MILLER	DWG. No. 00-05-01
			DATE OCT. 2014		



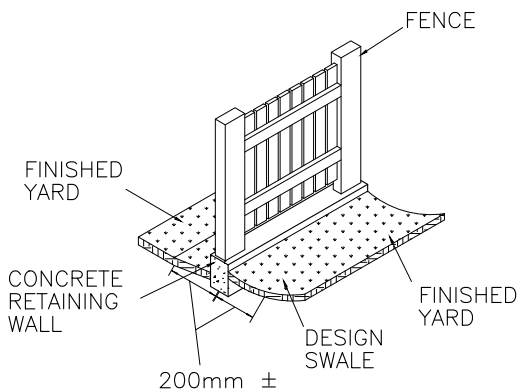
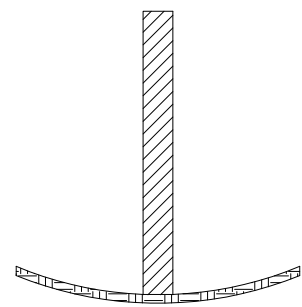
			CITY OF PRINCE ALBERT		APPROVED
			PUBLIC WORKS		<i>Weo Hicks</i>
			RAMP DETAIL - 2		SCALE N.T.S.
No.	DATE	REVISION	DRAWN S. NUMEHAHL	DESIGNED N. MILLER	DWG. No. 00-05-02
			DATE OCT. 2014		



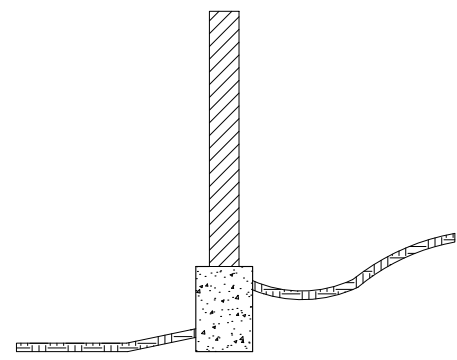
SECTION A-A
OPTION 1



SECTION A-A
OPTION 2



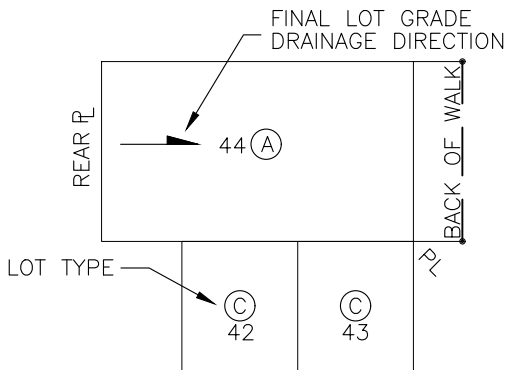
SECTION A-A
OPTION 3



NOTE

REAR GRADES ARE DESIGNED TO FLOW ALONG THE FENCE LINE
SEE LOT GRADE "PREGRADES" AND THE DIRECTION OF FLOW

			CITY OF PRINCE ALBERT		APPROVED
			PUBLIC WORKS		<i>Wes Hicks</i>
			EASEMENT GRADING		SCALE N.T.S.
No.	DATE	REVISION	DRAWN S. NUMEDAHL	DESIGNED N. MILLER	DWG. No. 00-06-01
			DATE OCT. 2014		

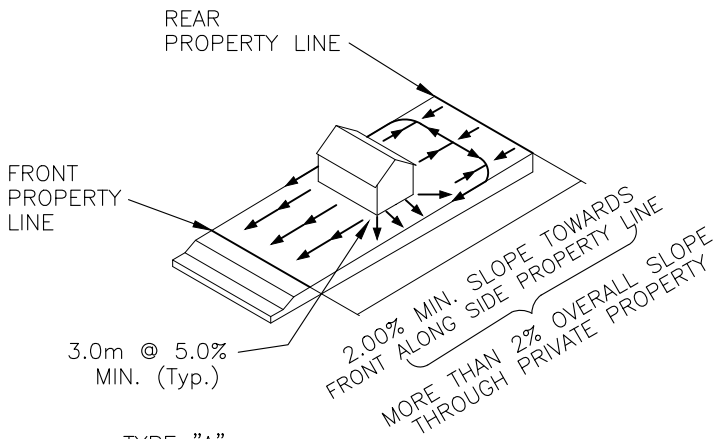


TYPICAL GRADING PLAN

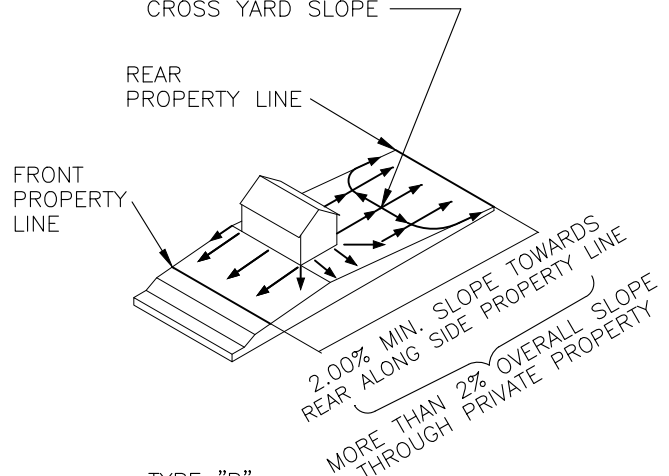
NOTES

1. PREGRADES REPRESENT THE DESIGN ELEVATION AT THE BACK OF WALK.
2. WHERE THE FRONT OF ONE LOT MEETS THE SIDE OF ANOTHER, BOTH THE PROPERTY LINE AND AND BACK OF WALK ELEVATIONS ARE SHOWN.
3. PREGRADE ELEVATIONS ARE ABBREVIATED

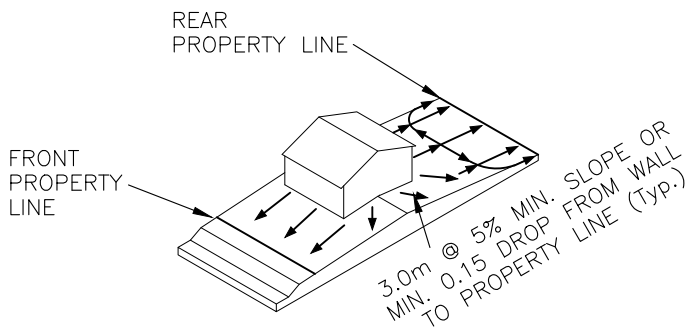
TYPICAL RELATIVE HIGH POINT ACROSS YARD (DRAINAGE MAY BE SPLIT FROM CENTER OR ALL SLOPED TO LOW SIDE) TYPICAL 1.5% MINIMUM CROSS YARD SLOPE



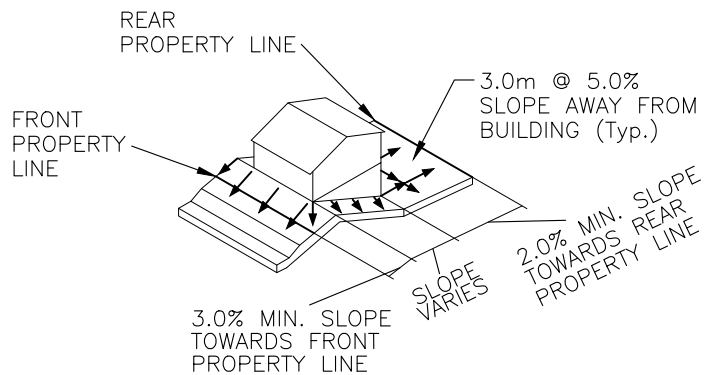
TYPE "A"
 >2% OVERALL SLOPE
 REAR TO FRONT DRAINAGE



TYPE "B"
 >2% OVERALL SLOPE
 FRONT TO REAR DRAINAGE

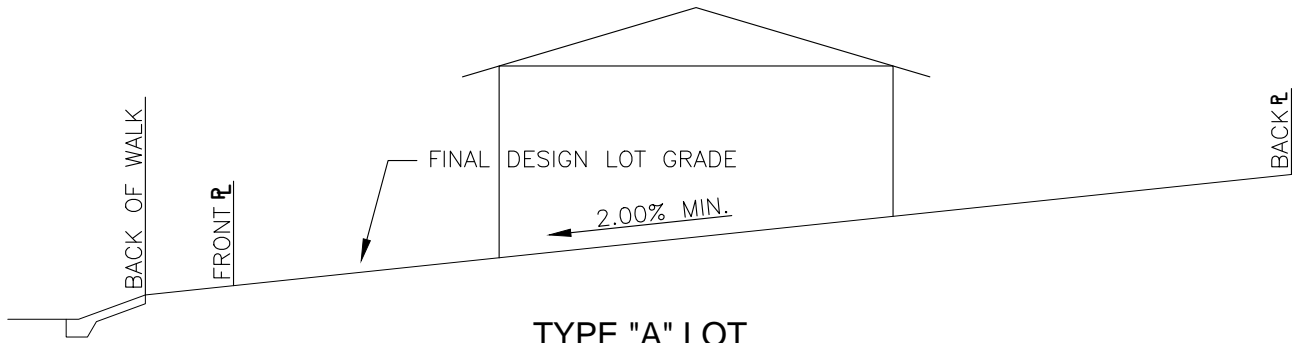


TYPE "C"
 STANDARD SPLIT DRAINAGE

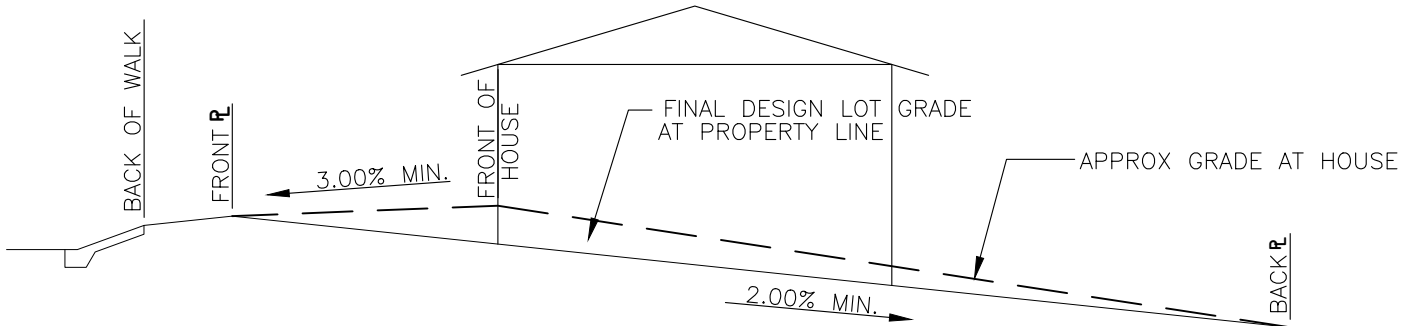


TYPE "D"
 WALK-OUT BASEMENT LOTS

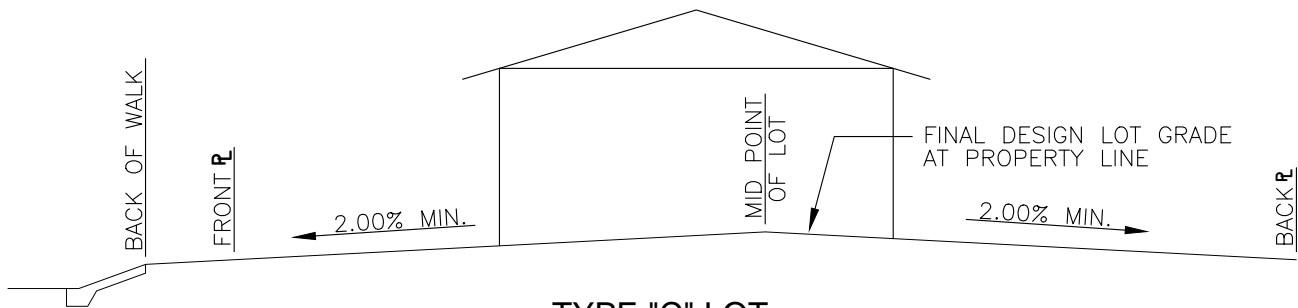
			CITY OF PRINCE ALBERT		APPROVED <i>Weo Hicks</i>
			PUBLIC WORKS		
			LOT GRADING		SCALE N.T.S.
			TYPES A, B, C & D		
No.	DATE	REVISION	DRAWN S. NUMEDAHL	DESIGNED N. MILLER	DATE OCT. 2014
					DWG. No. 00-06-02



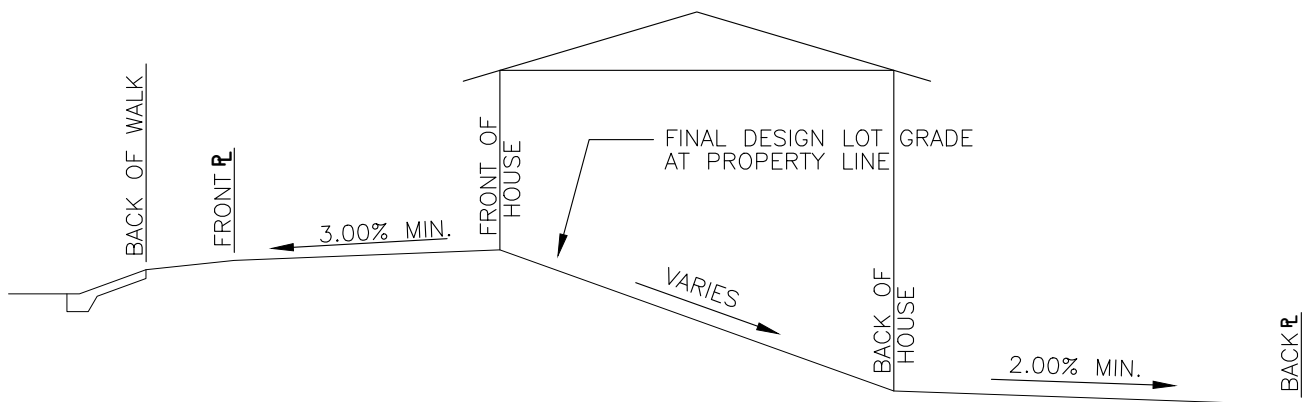
TYPE "A" LOT
BACK TO FRONT DRAINAGE



TYPE "B" LOT
FRONT TO BACK DRAINAGE



TYPE "C" LOT
STANDARD SPLIT DRAINAGE



TYPE "D" LOT
WALK-OUT BASEMENT

No.	DATE	REVISION

CITY OF PRINCE ALBERT
PUBLIC WORKS

LOT GRADING - SPLIT DRAINAGE
BACK TO FRONT/WALK-OUT BASEMENT

DRAWN S. NUMEDAHL | DESIGNED N. MILLER | DATE OCT. 2014

APPROVED
Wes Hicks

SCALE N.T.S.

DWG. No. 00-06-03