

# 2025 Design and Construction Standards Drawings













# **SUMMARY OF REVISIONS**

Version		Drawing Name	Revision
2025	# 4-100	Urban Residential Local Roadways	Removed Note I. Added CC. Added
		·	shallow utility dimensions. Revised
2025	4 101	Lluban Basidantial Callagton Baselman	streetlight location.  Removed Note I. Added CC. Added
2025	4-101	Urban Residential Collector Roadways	shallow utility dimensions. Revised
			streetlight location.
2025	4-102	Urban Industrial / Commercial Local and Collector Roadways	Removed Note 1. Added CC. Added
2023	1-102	orban modernary commercial Local and conector roadways	shallow utility dimensions.
2025	4-103	Urban Arterial Roadways	Added underground utility locations.
2025	4-106	Standard Trail	Revised note to correct pavement
2025	4 200	Standard Straight Face Curb and Gutter	structure. Added wick drain location
2025		Standard Straight Face Curb and Gutter Straight Face Curb and 500 mm Gutter	Added wick drain location
2025		Standard Rolled Face Curb and Gutter	Added wick drain location  Added wick drain location
2025		Monolithic Roll Face Curb, Gutter, and Sidewalk	Changed drawing name. Added wick drain
2023	7-300	Pronontine Ron Face Curb, Gutter, and Sidewalk	location. Revised rebar note (note 2).
2025	4-301	Separate Sidewalk	Revised rebar notes.
2025		Monolithic Straight Face Curb, Gutter, and Sidewalk	New drawing
2025		Monolithic Straight Face Curb, Gutter, and Concrete Verge	New drawing
2025		Curb Ramp Type "A" (On Corner; Monowalk)	Revised tooled groove direction. Added
2025		Carb Ramp 1/pc // (Cir Corner, Florioriality)	new note regarding GBC thickness.
2025	4-402	Curb Ramp Type "B" (On Corner; Separate Sidewalk)	Added new note regarding GBC thickness.
2025		Curb Ramp Type "C" (Midblock; Monowalk)	Added new note regarding GBC thickness.
2025		Curb Ramp Type "D" (Midblock; Separate Sidewalk)	Added new note regarding GBC thickness.
2025	4-500	Standard Residential Driveway Entrance (Mono, Curb, Gutter, Sidewalk)	Changed drawing name.
2025	4-510	Standard Residential Driveway Entrance (Separate, Curb,	New drawing
2023	1-510	Gutter, Sidewalk)	14CW Grawing
2025	4-520	Standard Commercial / Industrial Driveway Entrance (Separate, Curb, Gutter, Sidewalk)	New drawing
2025	4-750	Emergency Knock-Down Post	New drawing
2025		Sign Post Installation	New drawing
2025	4-811	Lateral Sign Placement with Curb and Gutter	New drawing
2025	4-830	RRFB Specification	New drawing
2025	4-840	Street Name Sign	New drawing
2025	4-850	Advance Overhead Intersection Street Name	New drawing
2025	4-860	Pavement Marking Types and Width	New drawing
2025		Intersection Pavement Markings (Sheet 1 of 2)	New drawing
2025		Intersection Pavement Markings (Sheet 2 of 2)	New drawing
2025		Internal Drop Manhole	Revised to remove cap (note 9).
2025		Perched Manhole	New drawing
2025	5-500	Sanitary Service Connection	Revised to specify two 22.5° elbows or 45° sweep.
2025	6-100	900 mm Diameter Catch Basin c/w DK-7 Frame and Grate	Added note regarding wick drain insertion.
2025		Type F-51 Catch Basin Curb Finishing Detail	Revised to add control joints and set back inlet face from curb.
2025	6-250	Control Structure Layout	New drawing
2025		Concrete Splash Pad	New drawing
2023	0-330	Correi dec opiasir i ad	1 tott di attilig

Version	Drawing #	Drawing Name	Revision
2025		Concrete Lot Drainage Swale	New Drawing
2025	6-400	Weeping Tile Discharge	Revised backflow preventer to reference sanitary not storm service.
2025	6-500	Poured Concrete Outfall Structure	Added requirement for safety railing.
2025	6-501	Bar Screen for Inlet and Outfall Structure	Revised rotation of bars to be vertical and updated Note 2.
2025	7-100	Water Valve Installation	Revised to Type B threaded valve box.  Added note clarifying stone guard attachment.
2025	7-200	Hydrant Installation	Added notes regarding breakaway flange and rods.
2025	7-201	Blow-off Valve Detail	Drawing removed and replaced.
2025	7-300	Water Service Connection	Added notes regarding goosenecks and set screw tightening.
2025	7-302	Single Lot Residential Servicing Details	Revised note regarding relative location of water and sanitary service (i.e., to the left) and responsibility for maintenance of installation in easement.
2025	7-310	Single Lot Residential Dual Servicing Details	New drawing
2025	7-315	Dual Service for Duplex / Semi-Detached Lots	New drawing
2025	7-500	Anode Installation at Hydrant	Revised anode materials and sizes.
2025	7-501	Typical Anode Installation for Iron Fittings Used with PVC Watermains	Added note regarding fitting materials. Revised anode materials and sizes.
2025	7-950	Manual Air Vent in Roadway	New drawing
2025	7-95 I	Manual Air Vent in Boulevard	New drawing
2025	7-960	Flush Point Detail in Boulevard	New drawing
2025	7-961	Flush Point Detail in Roadway	New drawing
2025	10-100	Typical Tree Planting	Revised notes and labels.
2025		Wood Noise Abatement Fence Detail	New drawing
2025		Wood Screen Fence	New drawing
2025		Wood Screen Fence Step Down	New drawing
2025	10-300	Chain Link Fence	New drawing

# **TABLE OF CONTENTS**

DRAW	ING	PAGE N	10.
Roadwa	ay Syste	ms	1
	4-100	Urban Residential Local Roadways	2
	4-101	Urban Residential Collector Roadways	3
	4-102	Urban Industrial / Commercial Local and Collector Roadways	4
	4-103	Urban Arterial Roadways	5
	4-104	Typical Lane Cross-Section	6
	4-105	Cul-de-Sac Sidewalk Requirements	7
	4-106	Standard Trail	8
	4-200	Standard Straight Face Curb and Gutter	9
	4-201	Straight Face Curb and 500 mm Gutter	10
	4-202	Standard Rolled Face Curb and Gutter	11
	4-203	Standard Barrier Curb	12
	4-300	Monolithic Roll Face Curb, Gutter, and Sidewalk	13
	4-301	Separate Sidewalk	14
	4-302	Sidewalk Joints and Finishing Details	15
	4-310	Monolithic Straight Face Curb, Gutter, and Sidewalk	16
	4-311	Monolithic Straight Face Curb, Gutter, and Concrete Header	17
	4-401	Curb Ramp Type "A" (On Corner; Monowalk)	18
	4-402	Curb Ramp Type "B" (On Corner; Separate Sidewalk)	19
	4-403	Curb Ramp Type "C" (Midblock; Monowalk)	20
	4-404	Curb Ramp Type "D" (Midblock; Separate Sidewalk)	21
	4-500	Standard Residential Driveway Entrance (Mono, Curb, Gutter, Sidewalk)	22
	4-510	Standard Residential Driveway Entrance (Separate, Curb, Gutter, Sidewalk)	23
	4-520	Standard Commercial / Industrial Driveway Entrance (Separate, Curb, Gutter, Sidewalk)	24
	4-600	Typical Rural Road Cross-Section	25
	4-601	Typical Rural Residential and Industrial / Commercial Approaches	26
	4-602	Typical Rural Residential Cul-de-Sac	27
	4-603	Typical Rural Utility Layout	28
	4-604	Typical Rural Shoulder Widening at Hydrant	29
	4-700	Neighborhood Traffic Circle	30
	4-750	Emergency Knock-Down Post	31
	4-800	Sign Support Detail	32
	4-810	Sign Post Installation	33
	4-811	Lateral Sign Placement with Curb and Gutter	34

4-830	Rectangular Rapid Flashing Beacon	35
4-840	Street Name Sign	36
4-850	Advance Overhead Intersection / Street Name	37
4-860	Pavement Marking Types and Width	38
4-870	Intersection Pavement Markings (Sheet 1 of 2)	39
4-880	Intersection Pavement Markings (Sheet 2 of 2)	40
Sanitary Sewer	age Systems	41
5-100	Precast Manhole for Pipes up to 600 mm Diameter	42
5-101	Precast Manhole for Pipes 675 mm to 900 mm Diameter	43
5-200	Internal Drop Manhole	44
5-210	Perched Manhole	45
5-300	Manhole Frames and Covers	46
5-500	Sanitary Service Connection	47
5-501	Sanitary Inspection Chamber	48
5-502	Sampling Manhole	49
5-600	Pipe Zone Bedding Details (Class A, A-1, B)	50
5-601	Pipe Zone Bedding Details (Class C, C-1, D)	51
5-700	Trench Backfill for New Construction	52
5-800	Pipe Support	53
5-900	Sanitary Manhole Sealing	54
Storm Drainage	e Systems	55
6-100	900 mm Diameter Catch Basin c/w DK-7 Frame and Grate	56
6-101	1200 mm Diameter Catch Basin Manhole c/w F-51 Frame and Grate with Side Inlet	57
6-103	Type F-51 Catch Basin Curb Finishing Detail	58
6-200	Type F-39 Catch Basin / Catch Basin Manhole Frame and Grate	59
6-201	Type DK-7 Catch Basin Frame and Grate	60
6-250	Control Structure Layout	61
6-300	Lot Grading Details	62
6-350	Concrete Splash Pad	63
6-360	Concrete Lot Drainage Swale	64
6-400	Weeping Tile Discharge	65
6-500	Poured Concrete Outfall Structure	66
6-501	Bar Screen for Inlet and Outfall Structure	67
6-600	Pipe Zone Bedding Details (Class A, A-1, B)	68
6-601	Pipe Zone Bedding Details (Class C, C-1, D)	69
6-700	Trench Backfill for New Construction	70
6-800	Pipe Support	71
6-900	Typical Rock RipRap for Culverts	72

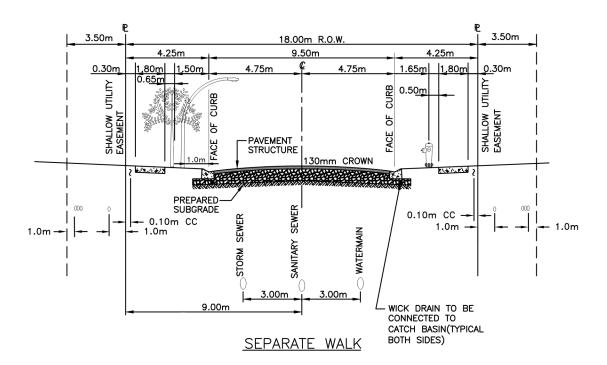
	6-950	Stormwater Management Facility Caution Sign	73
Vate	Distribu	tion Systems	74
	7-100	Water Valve Installation	75
	7-101	Hot Tapping Connection	76
	7-200	Hydrant Installation	77
	7-201	Blow-off Valve Detail	78
	7-300	Water Service Connection	79
	7-301	Service Valve Rod for 25 mm, 38 mm, 50 mm Curb Stops	80
	7-302	Single Lot Residential Servicing Details	81
	7-310	Single Lot Residential Dual Servicing Details	82
	7-315	Dual Service for Duplex / Semi-Detached Lots	83
	7-400	Poured Concrete Thrust Blocks for Horizontal Tees and Bends	84
	7-401	Poured Concrete Thrust Blocks for Vertical Bends (Downward Thrust)	85
	7-402	Poured Concrete Thrust Blocks for Vertical Bends (Upward Thrust)	86
	NEW	Vertical Bend Thrust Block Detail	87
	7-403	Poured Concrete Thrust Blocks for Dead Ends	88
	7-500	Anode Installation at Hydrant	89
	7-501	Typical Anode Installation for Iron Fittings Used with PVC Watermains	90
	7-600	Pipe Zone Bedding Details (Class A, A-1, B)	91
	7-601	Pipe Zone Bedding Details (Class C, C-1, D)	92
	7-700	Trench Backfill for New Construction	93
	7-800	Pipe Support	94
	7-900	Pipe Insulation	95
	7-950	Manual Air Vent in Roadway	96
	7-951	Manual Air Vent in Boulevard	97
	7-960	Flush Point Detail in Boulevard	98
	7-961	Flush Point Detail in Roadway	99
.ands	caping		100
	10-100	O Typical Tree Planting	101
	10-101	1 Typical Shrub Planting	102
	10-102	2 Sod Installation	103
	10-200	) Wood Noise Abatement Fence Detail	104
	10-210	) Wood Screen Fence	105
	10-220	) Wood Screen Fence Step Down	106
	10-300	Chain Link Fence	107

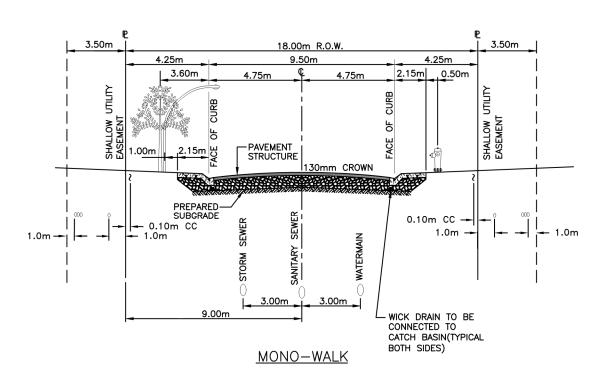
# Roadway Systems



4- 100

Date: APR, 2020 Rev. 2

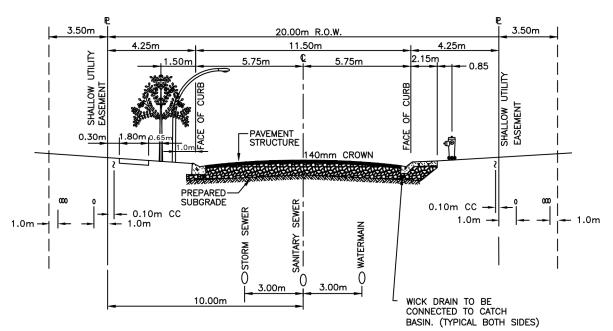




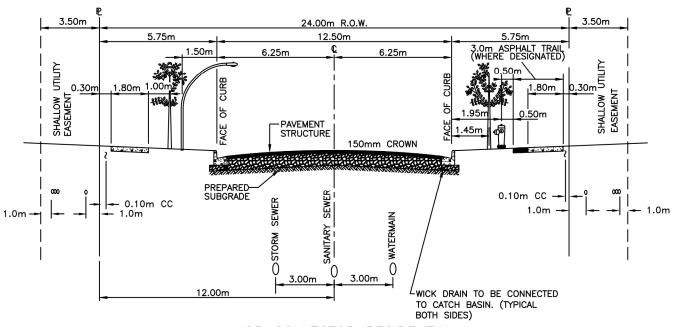
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Checked By:	K.M.	PLAIN
Approved:	K.M.	I L/ III V
Date:	APRIL 2020	

TOWN OF STONY PLAIN

URBAN RESIDENTIAL LOCAL ROADWAYS

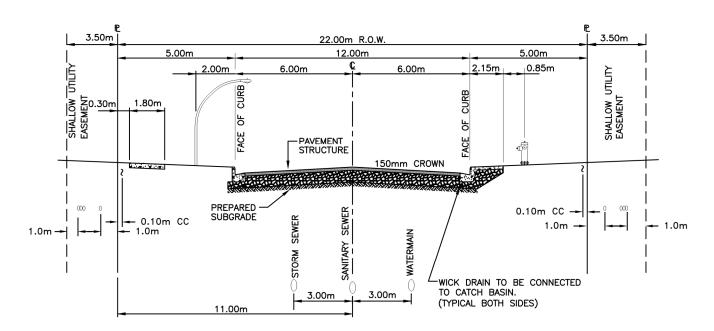




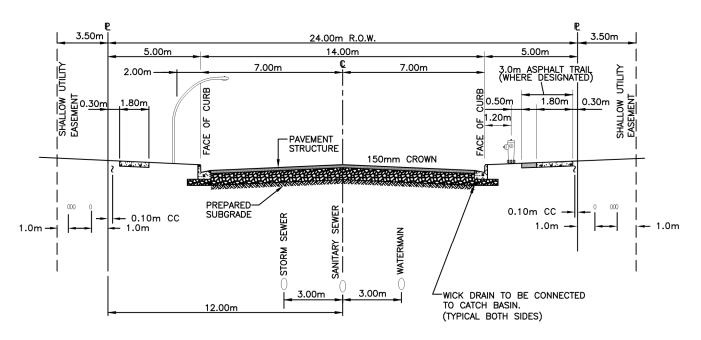


MAJOR COLLECTOR RESIDENTIAL

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Checked By:	K.M.	PLAIN	URBAN RESIDENTIAL COLLECTOR ROADWAYS			
Approved:	K.M.	ILIAIIV				
Date:	APRIL 2020					



# URBAN INDUSTRIAL/COMMERCIAL LOCAL ROADWAY

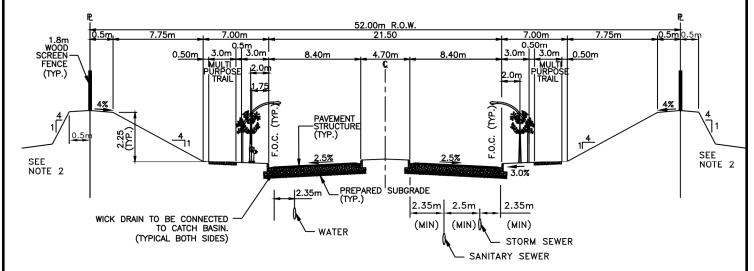


URBAN INDUSTRIAL/COMMERCIAL COLLECTOR ROADWAY

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Drawn By:	K.C.	<b>T</b> STONY			
Checked By:	K.M.	PLAIN	URBAN INDUSTRIAL/COMMERICAL		
Approved:	K.M.	ILAIIN	LOCAL AND COLLECTOR ROADWAYS		
Date:	APRIL 2020				

4- 103

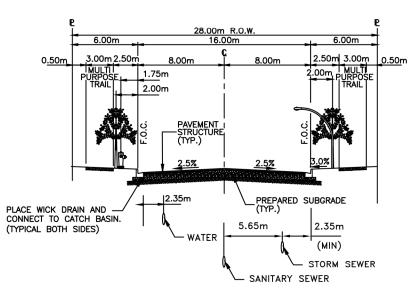
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# 4 LANE URBAN DIVIDED ARTERIAL ROADWAY

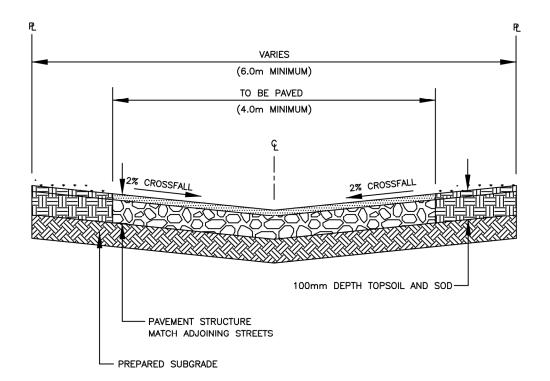
### NOTE:

- (1) REDUCED RIGHT-OF-WAY WIDTH WILL BE REVIEWED BY TOWN ENGINEERING MANAGER ON A CASE-BY-CASE SCFNARIO.
- (2) WHERE DESIGN BACK OF LOT ELEVATIONS ARE MUCH MORE THAN 2% ABOVE FRONT, A SHORT SECTION OF LOT CAN BE SLOPED AT MAX SLOPE OF 4H:1V



4 LANE URBAN UNDIVIDED ARTERIAL ROADWAY

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Drawn By:	K.C.	<b>TSTONY</b>			
Checked By:	K.M.	DI AINI			
Approved:	K.M.	ILAIN	URBAN ARTERIAL ROADWAYS		
Date:	APRIL 2020				



# NOTES:

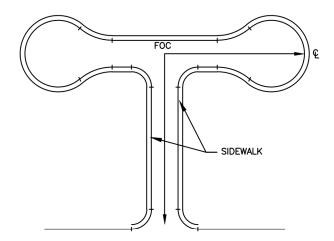
(1) PROVIDE FULL DEPTH ASPHALT PAVEMENT STRUCTURE TO ADJACENT HARD SURFACED PARKING AREAS.

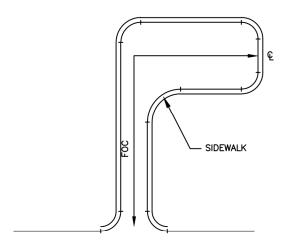
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Checked By:	K.M.	PLAIN
Approved:	K.M.	ILAIIV
Date:	APRIL 2020	

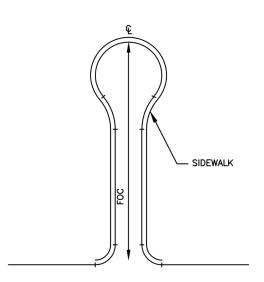
TOWN OF STONY PLAIN

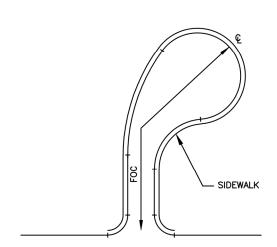
TYPICAL LANE CROSS SECTION

APR, 2020 Date:









# NOTES:

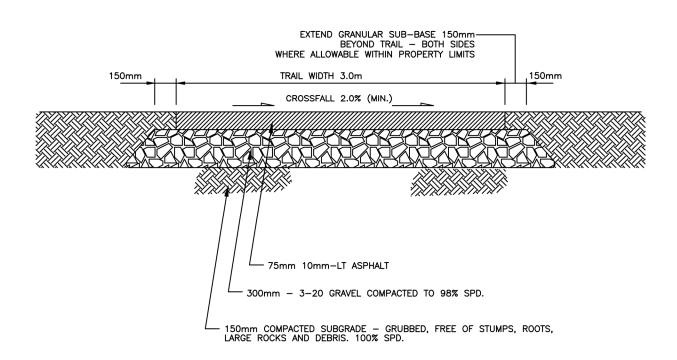
- (1) ALL CUL-DE-SACS SHALL HAVE A SIDEWALK ALONG THEIR FULL PERIMETER
- (3) SIDEWALKS TO LINE UP WITH CONTROLLED WALKWAY IF ONE EXISTS.

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Drawn By:	K.C.
Checked By:	K.M.
Approved:	K.M.
Date:	APRIL 2020



OF STONY TOWN PLAIN

**CUL-DE-SAC SIDEWALK REQUIREMENTS** 



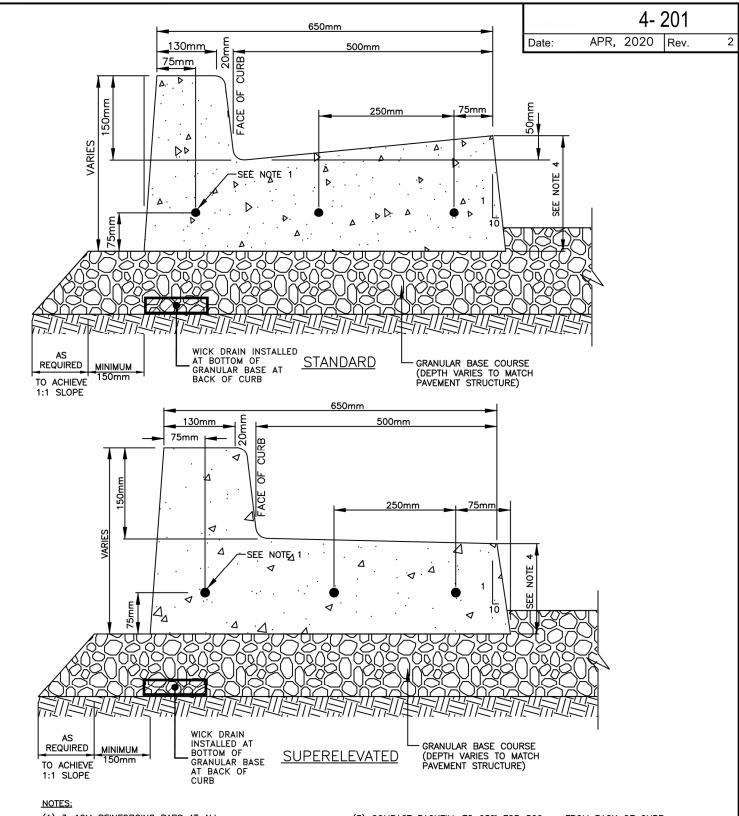
# ALTERNATE STRUCTURE:

- . 75mm 10mm-LT ASPHALT
- . 300mm 3-20 GRAVEL ON CLASS 2 WOVEN GEOTEXTILE FABRIC (NILEX 2002, LAYFIELD LP 200, OR APPROVED EQUIVALENT). EXTEND EDGES OF GEOTEXTILE FABRIC UP EDGES OF GRAVEL.
- . NATIVE GROUND

Scale:	Not To Scale	♦ TOWN OF	TOWN	OF STONY P	LAIN
Drawn By:	K.C.	<b>TSTONY</b>			
Checked By:	K.M.	PLAIN		STANDARD TRAIL	
Approved:	K.M.	I L/ (II)		STANDARD ITTALL	
Date:	APRIL 2020				

Date:

**APRIL 2020** 



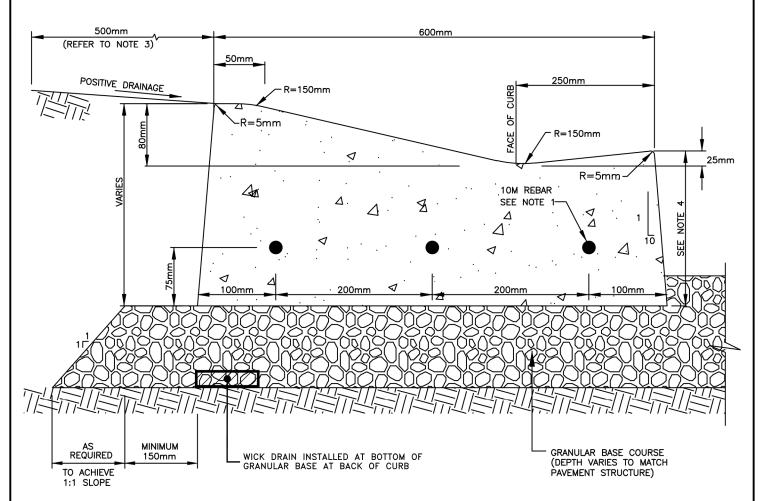
- (1) 3-10M REINFORCING BARS AT ALL LANES, CURB RAMPS, AND COMMERCIAL, INDUSTRIAL AND APARTMENT DRIVEWAY ENTRANCES.
- (2) CONCRETE TO BE CLASS C, 30MPa COMPRESSIVE STRENGTH AT 28 DAYS WITH >5.5% AIR ENTRAINMENT.
- (3) COMPACT BACKFILL TO 95% FOR 500mm FROM BACK OF CURB AND PROVIDE POSITIVE DRAINAGE OVER THE TOP OF CURB
- (4) 200mm (MIN.) OR THICKNESS OF ASPHALT STRUCTURE, WHICHEVER IS GREATER.

Scale:	Not To Scale	♦ TOWN OF
Drawn By:	K.C.	TSTONY
Checked By:	K.M.	PLAIN
Approved:	K.M.	ILAIIV
Date:	APRIL 2020	

TOWN OF STONY PLAIN

STRAIGHT FACE CURB AND 500mm GUTTER

Date:



# NOTES:

- (1) 3-10M REINFORCING BARS AT ALL LANES, CURB RAMPS, AND COMMERCIAL, INDUSTRIAL AND APARTMENT DRIVEWAY ENTRANCES.
- (2) CONCRETE TO BE CLASS C, 30MPa COMPRESSIVE STRENGTH AT 28 DAYS WITH >5.5% AIR ENTRAINMENT.
- (3) COMPACT BACKFILL TO 95% FOR 500mm FROM BACK OF CURB AND PROVIDE POSITIVE DRAINAGE OVER THE TOP OF CURB
- (4) 200mm (MIN.) OR THICKNESS OF ASPHALT STRUCTURE, WHICHEVER IS GREATER.

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Drawn By:	K.C.	*
Checked By:	K.M.	II,
Approved:	K.M.	
Date:	APRIL 2020	



TOWN OF STONY PLAIN

STANDARD ROLLED FACE CURB AND GUTTER

4-203

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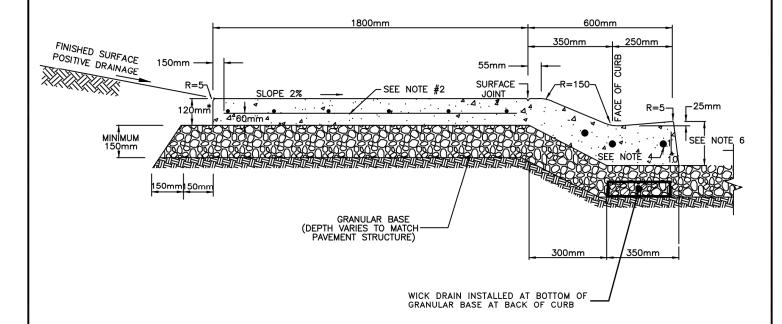
Date:

K.M.

**APRIL 2020** 

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APR, 2020 Date:



\* 175mm AT ALL LANES, CURB RAMPS, AND COMMERCIAL, INDUSTRIAL AND APARTMENT BUILDING DRIVEWAY ENTRANCES.

# NOTES:

- (1) 15mm MAXIMUM BATTER AT BACK OF WALK FOR EXTRUDED SECTIONS.
- 10M REBAR AT 750mm C/C IN BOTH DIRECTIONS TO BE PLACED IN SIDEWALK PRIOR TO PLACING CONCRETE ACROSS ALL LANES, CURB RAMPS, AND COMMERCIAL, INDUSTRIAL AND APARTMENT BUILDING DRIVEWAY ENTRANCES.
- (3) CONCRETE TO BE CLASS C, 30 Mpg. COMPRESSIVE STRENGTH AT 28 DAYS WITH >5.5% AIR ENTRAINMENT.
- (4) 3-10M REINFORCEMENT BARS AT ALL LANES, CURB RAMPS, AND COMMERCIAL, INDUSTRIAL, AND APARTMENT BUILDING DRIVEWAY ENTRANCES.
- (5) COMPACT BACKFILL TO 95% FOR 500mm FROM BACK OF WALK AND PROVIDE POSITIVE DRAINAGE OVER TOP OF WALK
- (6) 200mm (MIN.) OR THICKNESS OF ASPHALT STRUCTURE, WHICHEVER IS GREATER.

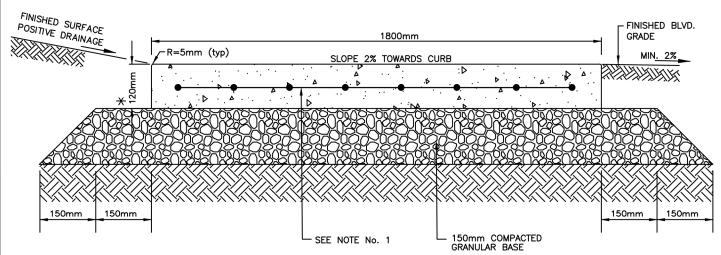
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Drawn By:	K.C.	TSTONY
Checked By:	K.M.	PLAIN
Approved:	K.M.	ILAIIV
Date:	APRIL 2020	

STONY OF TOWN PLAIN

> MONOLITHIC ROLL FACE CURB, **GUTTER AND SIDEWALK**

2

APR, 2020 Date:



\* 175mm AT ALL LANES, CURB RAMPS, AND COMMERCIAL, INDUSTRIAL AND APARTMENT BUILDING DRIVEWAY ENTRANCES. REQUIRES GRANULAR BASE TO LANE STANDARD.

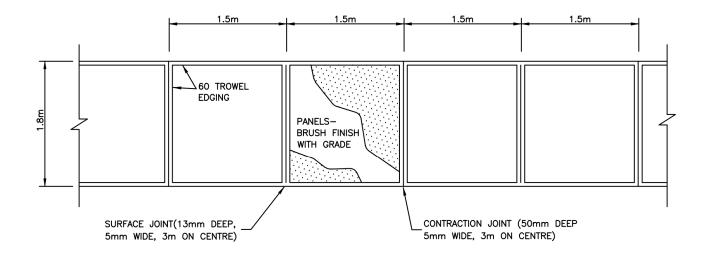
# NOTES:

- (1) 10M REBAR AT 750mm C/C IN BOTH DIRECTIONS TO BE PLACED IN SIDEWALK PRIOR TO PLACING CONCRETE ACROSS ALL LANES, CURB RAMPS, AND COMMERCIAL, INDUSTRIAL AND APARTMENT BUILDING DRIVEWAY ENTRANCES.
- (2) ELEVATION OF FRONT OF WALK TO BE SET SUCH THAT A MINIMUM SLOPE OF 2% IS MAINTAINED ACROSS BOULEVARD BETWEEN FRONT OF WALK AND TOP OF CURB.
- (3) CONCRETE TO BE CLASS C, 30MPa. COMPRESSIVE STRENGTH AT 28 DAYS WITH >5.5% AIR ENTRAINMENT.
- (4) COMPACT BACKFILL TO 95% FOR 500mm FROM BACK OF WALK AND PROVIDE POSITIVE DRAINAGE OVER TOP OF WALK

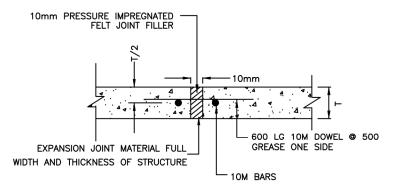
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Drawn By:	K.C.	<b>TSTONY</b>				
Checked By:	K.M.	PLAIN		SEDAR	ATE SIDEWALK	
Approved:	K.M.			OLI AIX	ATE SIDEWALK	
Date:	APRIL 2020					

4- 302

Date: APR, 2020 Rev. 2



# <u>PLAN</u>

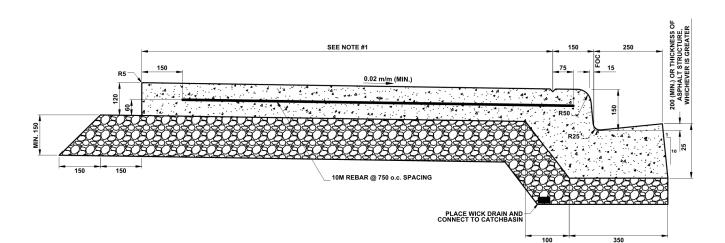


EXPANSION JOINT DETAIL

Scale:	Not To Scale	★ TOWN OF	TOWN OF STONY PLAIN
Drawn By:	K.C.	<b>TSTONY</b>	
Checked By:	K.M.	PLAIN	SIDEWALK JOINT AND FINISHING DETAILS
Approved:	K.M.		SIDEWALK SOUNT AND FINISHING DETAILS
Date:	APRIL 2020		

4-310 MAY, 2025 Rev.

Date:



# NOTES:

- MINIMUM WIDTH OF MONOWALK
   ON URBAN LOCAL ROADWAYS TO BE 1.80m.
   ALONG COLLECTOR / ARTERIAL ROADWAYS TO BE 2.30m.
   IN FRONT OF SCHOOL SITE TO BE 2.50m.

**ALL DIMENSIONS** IN MILLIMETRES UNLESS **OTHERWISE NOTED** 

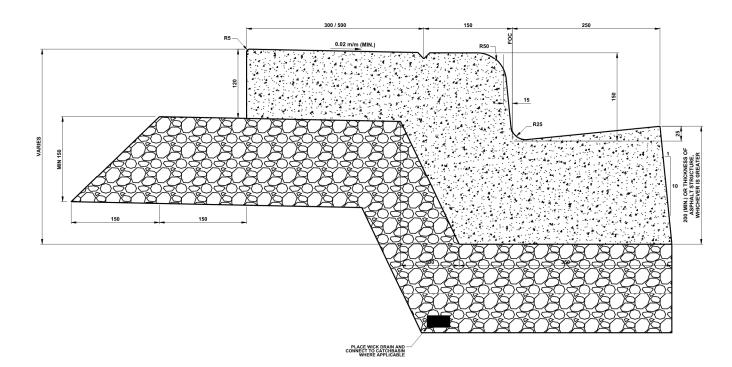
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Drawn By:	JR	_
Checked By:	JN	
Approved:	JN	
Date:	MAY 2025	



### STONY TOWN OF PLAIN

MONOLITHIC STRAIGHT FACE CURB, **GUTTER AND SIDEWALK** 

4-311 Date: MAY, 2025 Rev. 1



- CONCRETE HEADER TO BE POURED MONOLITHICALLY WITH CURB AND GUTTER.
- LANDSCAPED MEDIAN HEADER WIDTH TO BE 500mm. ALL OTHER MEDIAN HEADER WIDTH TO BE 300mm.

ALL DIMENSIONS IN MILLIMETRES UNLESS **OTHERWISE NOTED** 

Scale:	Not To Scale	
Drawn By:	JR	
Checked By:	JN	
Approved:	JN	
Date:	MAY 2025	



### TOWN OF STONY PLAIN

MONOLITHIC STRAIGHT FACE CURB, **GUTTER, AND CONCRETE HEADER** 

4-401

Rev.

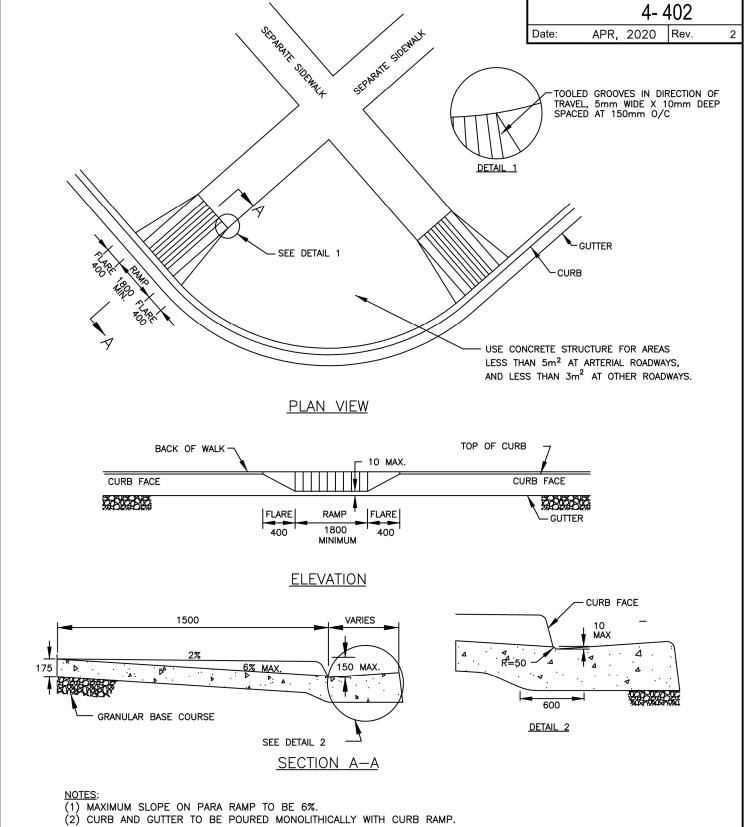
APR, 2020

Date:

ile: Q:\2019-3638-00\civil\Standard Details\Warkin\_Dwgs\ROADWAYS\3638-4-401.dwg by refs: TSP-G-TTBL\_8.5x11\_01

Date:

**APRIL 2020** 



- (3) CENTRE CURB RAMP WITH CENTRE OF PEDESTRIAN CROSSWALK.
- (4) MINIMUM 150mm GRANULAR BASE COURSE TO BE PROVIDED UNDER CURB RAMPS.

Scale:	Not To Scale	♦ TOWN OF	TOWN OF STONY PLAIN
Drawn By:	K.C.	TSTONY	
Checked By:	K.M.	PLAIN	CURB RAMP TYPE 'B'
Approved:	K.M.	ILAIN	(ON CORNER SEPARATE SIDEWALK)
Date:	APRIL 2020		

TOOLED GROOVES IN DIRECTION OF TRAVEL 5mm WIDE X 10mm DEEP SPACED AT 150mm O/C

4-403

Rev.

APR, 2020

Date:

**APRIL 2020** 

(MIDBLOCK; SEPARATE SIDEWALK)

Q:\2019-3638-00\civil\Standard Details\Warkin\_Dwgs\ROADWAYS\3638-4-404.dwg by TSP-6-TTBL\_8.5x11\_01

Approved:

Date:

K.M.

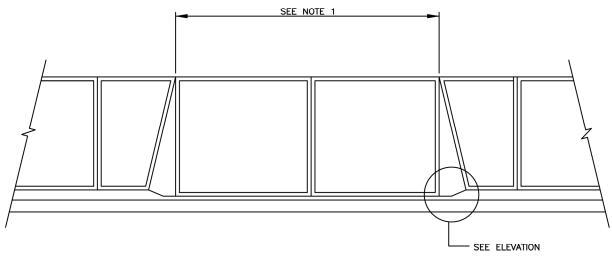
**APRIL 2020** 

TOOLED GROOVES IN DIRECTION OF TRAVEL

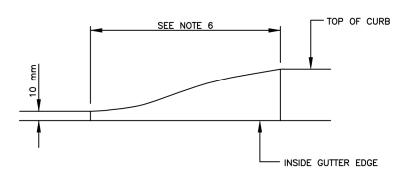
4-404

4- 500

Date: APR, 2020 Rev. 2



# PLAN



# **ELEVATION**

# NOTES:

(1) MAXIMUM ALLOWABLE:

RESIDENTIAL = 6.0 m COMMERCIAL = 12.5 m INDUSTRIAL = 12.5 m APT. BLDG. = 12.5 m LANEWAYS = 6.0 m

- (2) 152 x 152 MW47.6xMW47.6 WIRE MESH TO BE PLACED IN SIDEWALK PRIOR TO PLACING CONCRETE ACROSS ALL LANES, CURB RAMPS, AND COMMERCIAL, INDUSTRIAL AND APARTMENT BUILDING DRIVEWAY ENTRANCES.
- (3) CURB AND GUTTER SECTION REQUIRES 3-10mm REBAR, REFER TO STANDARD DRAWING 4-300.
- (4) SIDEWALK THICKNESS = 120 mm AT RESIDENTIAL CROSSINGS. SIDEWALK THICKNESS = 175 mm AT ALL OTHER CROSSINGS.
- (5) CONCRETE TO BE CLASS C, 30MPa COMPRESSIVE STRENGTH AT 28 DAYS WITH >5.5% AIR ENTRAINMENT.
- (6) 1750mm STRAIGHT FACE CURB AND GUTTER 600mm ROLLED FACE CURB AND GUTTER

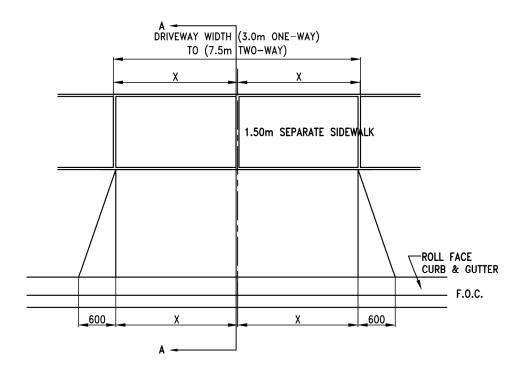
Scale:	Not To Scale	•
Drawn By:	K.C.	╟╫╺
Checked By:	K.M.	`
Approved:	K.M.	
Date:	APRIL 2020	

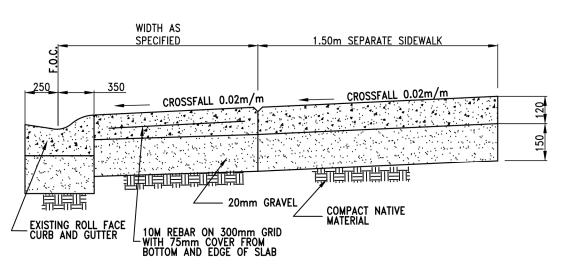


TOWN OF STONY PLAIN

STANDARD RESIDENTIAL DRIVEWAY ENTRANCE (MONO, CURB, GUTTER, SIDEWALK)

**4-510**Date: MAY, 2025 Rev. 1





**PLAN** 

# SECTION A-A - ROLL FACE

# NOTES:

1. WIDTH OF "X" TO BE DETERMINED IN FIELD OR AS DIRECTED BY THE ENGINEER

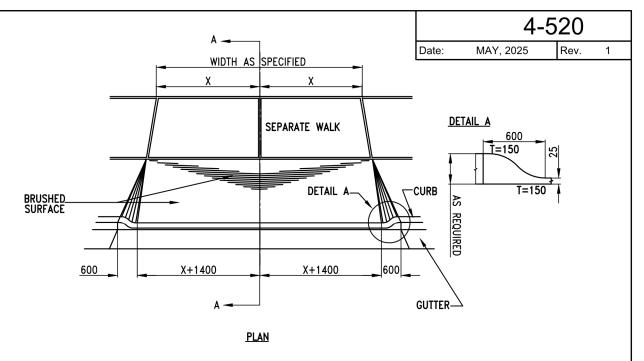
2. 28 DAYS CONCRETE STRENGTH-30MPa

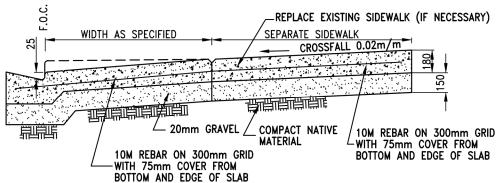
Scale:	Not To Scale	
Drawn By:	JR	-
Checked By:	JN	
Approved:	JN	
Date:	MAY 2025	



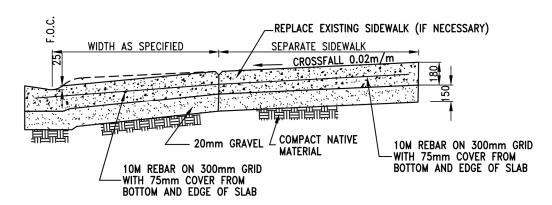
# TOWN OF STONY PLAIN

STANDARD RESIDENTIAL
DRIVEWAY ENTRANCE
(SEPARATE, CURB, GUTTER, SIDEWALK)





SECTION A-A - STRAIGHT FACE



SECTION A-A - ROLL FACE

# NOTES

1. WIDTH OF "X" TO BE DETERMINED IN FIELD OR AS DIRECTED BY THE ENGINEER

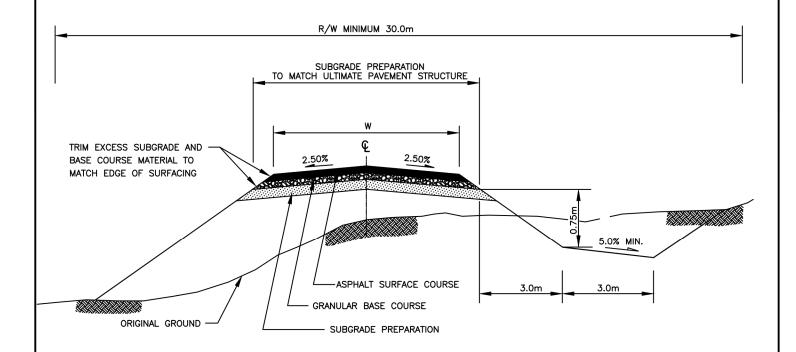
2. 28 DAYS CONCRETE STRENGTH-30MPa

Scale:	Not To Scale	
Drawn By:	JR	-
Checked By:	JN	
Approved:	JN	
Date:	MAY 2025	



# TOWN OF STONY PLAIN

STANDARD COMMERCIAL / INDUSTRIAL DRIVEWAY ENTRANCE (SEPARATE, CURB, GUTTER, SIDEWALK)



NOTE: ALL BACK SLOPES 3H:1V UNLESS NOTED OTHERWISE

ROAD CLASSIFICATION	WIDTH (W)
RESIDENTAL LOCAL	7.0m
RESIDENTIAL COLLECTOR	8.0m
COMMERCIAL / INDUSTRIAL LOCAL	9.0m
COMMERCIAL / INDUSTRIAL COLLECTOR	11.0m

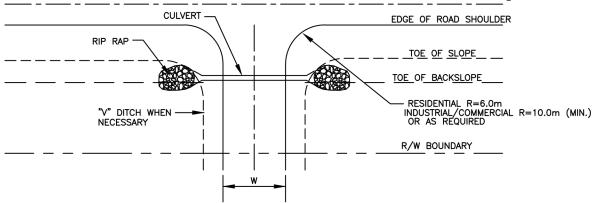
# NOTES:

- (1) ALL BACK SLOPES 3H:1V UNLESS NOTED OTHERWISE
- (2) SLOPES STEEPER THAN 3H:1V REQUIRES 1m SHOULDER WIDENING & GUARD RAIL INSTALLATION
- (3) PAVEMENT STRUCTURE AS PER SECTION 4.

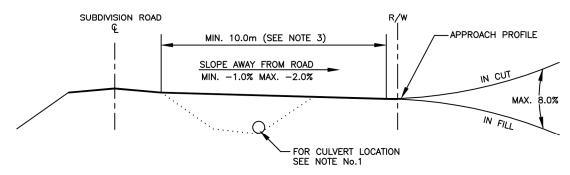
Scale:	Not To Scale	★ TOWN OF	TOWN OF STONY PLAIN	
Drawn By:	K.C.	TSTONY		
Checked By:	K.M.	PLAIN	TYPICAL RURAL ROAD CROSS SECTION	
Approved:	K.M.	T ET TIT		
Date:	APRIL, 2020			

Date: APR, 2020 Rev.

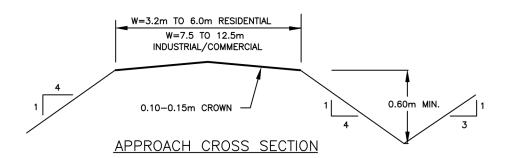
\_ငု SUBDIVISION ROAD



# APPROACH PLAN



# DITCH AND CULVERT LOCATION



# NOTES:

- (1) WHEN CULVERTS ARE REQUIRED THEY SHALL BE C.S.P. WITH A MIN. DIAMETER OF 400mm.
  - LENGTH WILL VARY WITH DEPTH OF FILL (MIN. 10.0m)
- CULVERT TO BE PLACED AT TOE OF BACKSLOPE

  (2) ALL DIMENSIONS SHOWN ARE IN METERS UNLESS NOTED OTHERWISE
- (3) MIN. APPROACH LENGTH FROM EDGE OF ROAD SHOULDER TO R/W BOUNDARY
- (4) PAVEMENT STRUCTURE OF DRIVEWAY TO MATCH THAT OF ROADWAY.

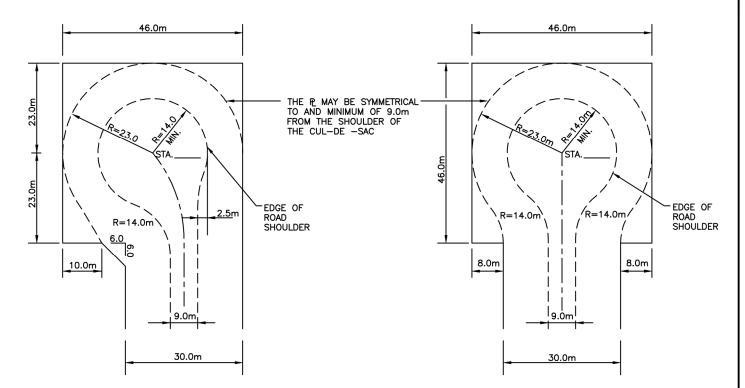
Scale:	Not To Scale
Drawn By:	K.C.
Checked By:	K.M.
Approved:	K.M.
Date:	APRIL 2020



TOWN OF STONY PLAIN

TYPICAL RURAL RESIDENTIAL & INDUSTRIAL/COMMERCIAL APPROACHES

4-602 APR, 2020 Rev 2 Date:



- (1) MIN. 1.0% LONGITUDINAL GRADE REQUIRED ALONG CUL-DE-SAC AND CURB RADII.
- (2) THE MINIMUM CROWN SLOPE WITHIN THE CUL-DE-SAC BULB SHALL BE 1.0%.
- (3) RIGHT-OF-WAY WIDTH MAY INCREASE, DEPENDING ON FILL OR BACKSLOPE REQUIREMENTS.
- (4) NOTE THE FOLLOWING FIRE TRUCK SPECIFICATIONS:

INSIDE TURNING RADII: 7.6 m

CURB TO CURB TURNING RADII: 12.5 m

WALL TO WALL TURNING RADII: 14.2 m

DEVELOPERS SHALL DETERMINE DESIGN REQUIREMENTS FOR CUL-DE-SACS IN CONSULTATION WITH THE TOWN. THE TOWN MAY REQUIRE CERTAIN CUL-DE-SACS BE DESIGNED TO ACCOMMODATE THE TURNING MOVEMENTS OF A FIRE TRUCK WITH MINIMAL MANEUVERING. IN THESE CASES, THE TOWN WILL REQUIRE THE SUBMISSION OF A DRAWING INDICATING THAT A FIRE TRUCK CAN SUCCESSFULLY MANEUVER IN THE PROPOSED CUL-DE-SAC AS DESIRED BY THE TOWN.

Scale:	Not To Scale	♦ TOWN OF
Drawn By:	K.C.	TSTONY
Checked By:	K.M.	PLAIN
Approved:	K.M.	ILAIIN
Date:	APRIL 2020	

STONY TOWN OF PLAIN

> TYPICAL RURAL RESIDENTIAL **CUL-DE-SAC**

CLEARING AS REQUIRED R/W MINIMUM 30.0m STREET LIGHT 2.5m PROPERTY LINE PROPERTY LINE GAS EASEMENTI 1.5m ABOVE— GROUND POWER ROAD SURFACE -APRKER FLAG MIN. 1.0m HIGH 2.5m GAS EASEMENT SHOULDER WIDENING-SEE DETAIL 4-604 1.5m BOLLARD 3.0m MIN. GAS 3.0m -CULVERT 1.0m Ä UNDERGROUND TELEPHONE & POWER

# NOTES:

WATER MAIN

5.0m

- (1) WATERMAIN AND HYDRANT MAY BE LOCATED ON EITHER SIDE OF ROAD
- (2) UNDERGROUND POWER OR POWER POLES WITH STREET LIGHTS TO BE LOCATED ON OPPOSITE SIDE TO WATERMAIN.
- (3) LUMINARE SUPPORTS TO BE AS PER THE REQUIREMENTS OF THE UTILITY AUTHORITY.
- (4) PAVEMENT STRUCTURE TO BE AS PER SECTION 4.

Scale:	Not To Scale	★ TOWN OF
Drawn By:	K.C.	TSTONY
Checked By:	K.M.	PLAIN
Approved:	K.M.	I L/ All V
Date:	APRIL 2020	

1.0m

TOWN OF STONY PLAIN

4-603

Rev.

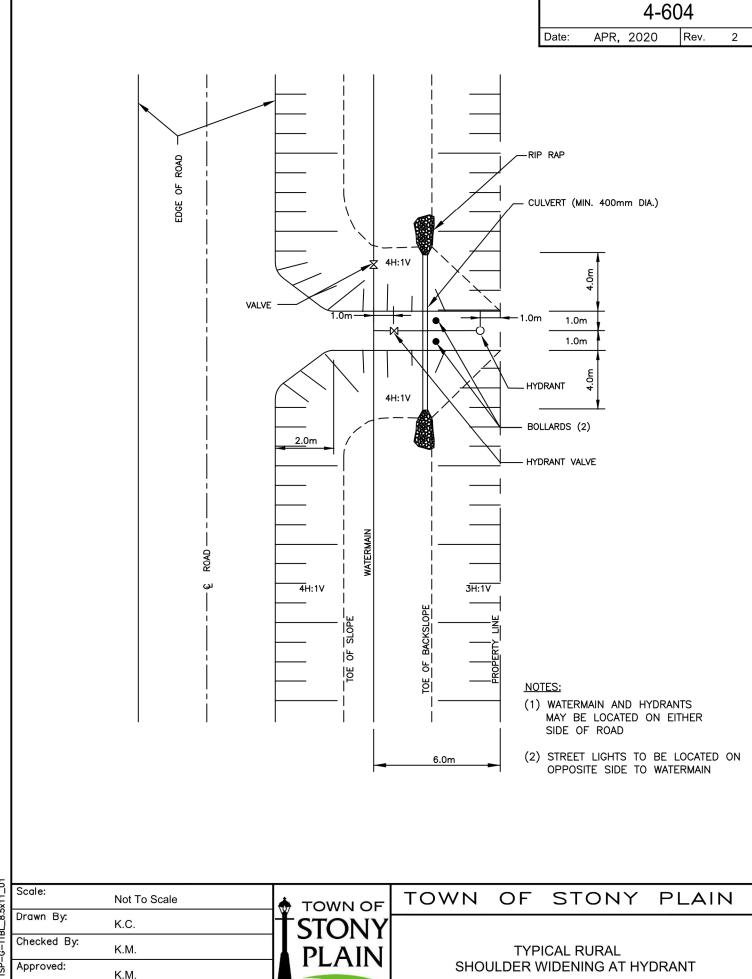
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APR, 2020

Date:

TYPICAL RURAL UTILITY LAYOUT

SANITARY SEWER-



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Date:

APRIL 2020

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4-750

**EMERGENCY KNOCK-DOWN POST** 

JN

JN

MAY 2025

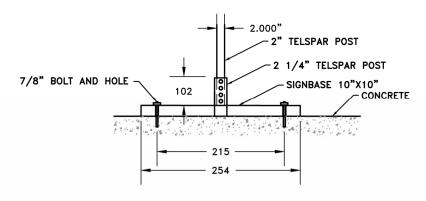
Approved:

Date:

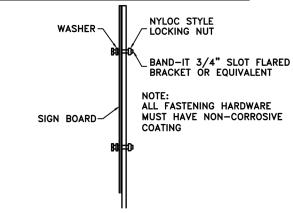
Scale:	Not To Scale	♦ TOWN OF	TOWN	OF STONY PLAIN
Drawn By:	K.C.	<b>TSTONY</b>		
Checked By:	K.M.	PLAIN		SIGN SUPPORT DETAIL
Approved:	K.M.	ILIAIIV		SIGN SOLL SIN BETWEE
Date:	APRIL 2020			

4-810 MAY, 2025 Rev. Date: 1

CONCRETE POST INSTALLATION DETAIL







#### APPROVED POSTS AND HARDWARE:

ALL POSTS AND BASES TO BE GALVANIZED

METAL UTILITY POLE MOUNTS: FASTENERS ARE BAND-IT 3/4" SLOT FLARED BRACKET STAINLESS STEEL C/W BOLT, SS AND FIBER WASHER OR APPROVED EQUIVALENT

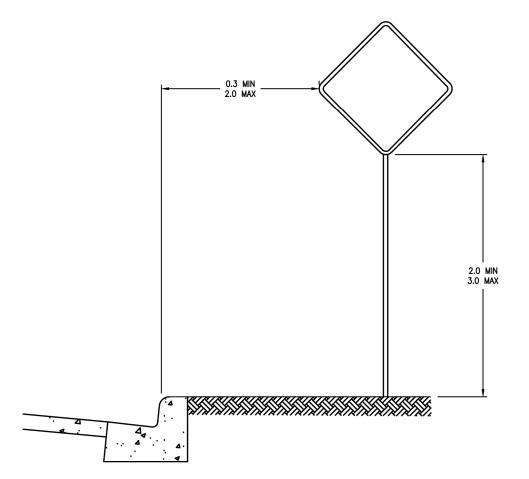
SELF-TAPPING SCREWS ARE NOT PERMITTED

CONCRETE BASE ANCHOR BOLTS TO BE GALVANIZED

1. ALL DIMENSIONS ARE IN MILLIMETRES (mm), UNLESS OTHERWISE NOTED

Scale:	Not To Scale	★ TOWN OF	TOWN OF STONY PLAIN				
Drawn By:	JR	TSTONY					
Checked By:	JN	PLAIN	OLON INOTALL ATION DETAIL				
Approved:	JN	I L/ III V	SIGN INSTALLATION DETAIL				
Date:	MAY 2025						

4-811 MAY, 2025 Rev. Date:



#### NOTE:

- 1. SIGNS SHOULD BE ANGLED AT 1 DEGREE AWAY FROM ONCOMING TRAFFIC
- ALL SIGNS SHOULD BE MOUNTED AT APPROXIMATELY RIGHT ANGLES TO THE DIRECTION OF TRAFFIC
- WHEN A SUPPLEMENTARY TAB SIGN IS MOUNTED BENEATH THE PRINCIPAL SIGN, THE HEIGHT SHOULD BE MEASURED TO THE BOTTOM OF THE TAB
- 4. THE VERTICAL OFFSET MAY BE REDUCED TO 1.5m IN AREAS WITH NO PEDESTRIAN TRAFFIC 5. ALL DIMENSIONS IN METRES UNLESS OTHERWISE NOTED

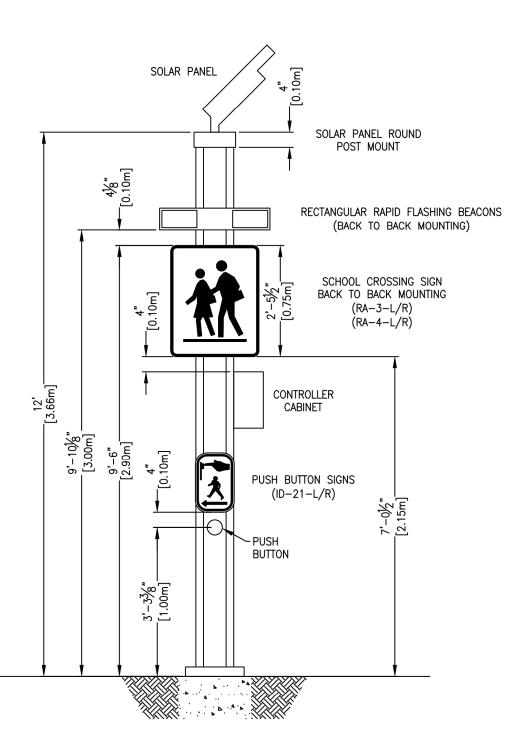
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Drawn By:	JR	_
Checked By:	JN	
Approved:	JN	
Date:	MAY 2025	



#### TOWN STONY OF PLAIN

LATERAL SIGN PLACEMENT WITH CURB AND GUTTER

4-830 Rev. MAY, 2025 Date:



#### NOTE:

- 1. 12' SCHEDULE 40, 2 %" ROUND POST REQUIRED 2. TAPCO VR3-30" ANCHOR MUST BE USED TO PROVIDE ADDITIONAL SUPPORT FOR POST LOAD

Scale:	Not To Scale	★ TOWN OF
Drawn By:	JR	TSTONY
Checked By:	JN	PLAIN
Approved:	JN	I L/ XII V
Date:	MAY 2025	

STONY TOWN OF PLAIN

RECTANGULAR RAPID FLASHING BEACON

4-840

Date: MAY, 2025

Rev.

1

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TSP-G-TTBL\_8.5X11

**URBAN 9" EXTRUDED BLADE** 



6" & 4" HWY B TEXT @ 100% 3" TOWN LOGO EXTRUDED ALUMINUM

RURAL TWP/RGE 9" EXTRUDED BLADE

RGE RD 00

6" HWY B TEXT @ 100% EXTRUDED ALUMINUM

RURAL STREET NAME 6" EXTRUDED BLADE



ALL 4" HWY B TEXT @ 100% EXTRUDED ALUMINUM

Scale:	Not To Scale	Γ
Drawn By:	JR	,
Checked By:	JN	
Approved:	JN	
Date:	MAY 2025	



TOWN OF STONY PLAIN

STREET NAME AND ADDRESS BLADE

4-850

Date: MAY, 2025

Rev.

For Speeds 60km/h or Lower

## Summerside Rd

30cm

Variable Length (Approx. 10cm per letter and space)

15cm/9cm Clearview 2W
If necessary (due to descenders)
Font Can be Reduced to Minimum
13cm
FLAT SHEET ALUMINUM

For Speeds Over 60km/h

# Summerside Rd

40cm

Variable Length (Approx. 15cm per letter and space)

20cm/12cm Clearview 2W
If necessary (due to descenders)
Font Can be Reduced to Minimum
15cm

FLAT SHEET ALUMINUM

Scale:	Not To Scale	
Drawn By:	JR	
Checked By:	JN	
Approved:	JN	
Date:	MAY 2025	



TOWN OF STONY PLAIN

ADVANCE OVERHEAD INTERSECTION

6000

3000

MAY 2025

#### STONY PLAIN

4-860

Rev.

MAY, 2025

Date:

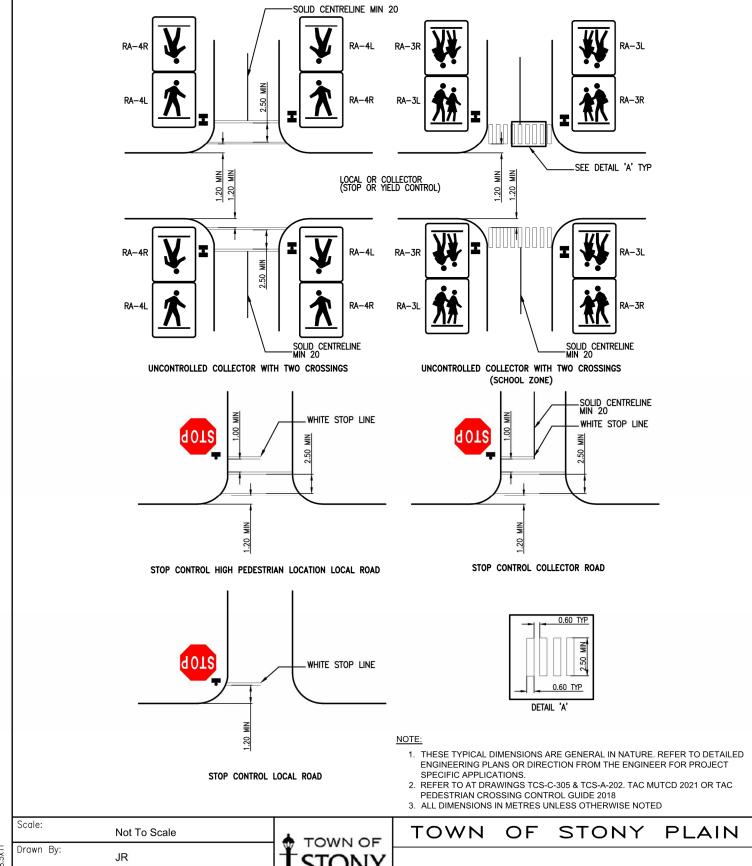
3000

6000

SOLID BARRIER

**BROKEN CENTRELINE** 

PAVEMENT MARKING TYPES AND WIDTH



4-870

Rev.

1

MAY, 2025

Date:

INTERSECTION PAVEMENT MARKINGS (SHEET 1 OF 2)

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Checked By:

Approved:

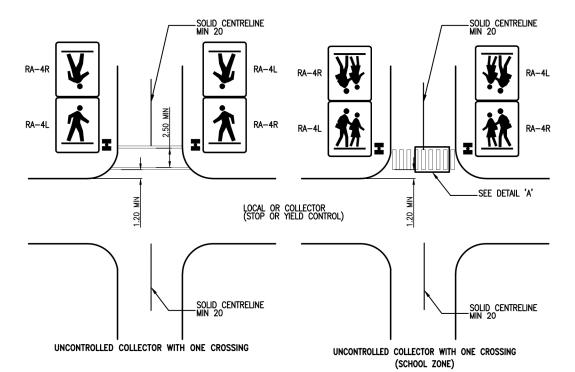
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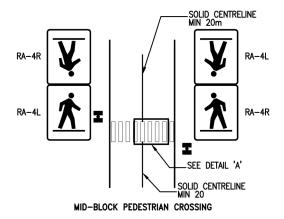
JN

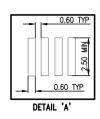
JN

MAY 2025

4-880
Date: MAY, 2025 Rev. 1







#### NOTE

- THESE TYPICAL DIMENSIONS ARE GENERAL IN NATURE. REFER TO DETAILED ENGINEERING PLANS OR DIRECTION FROM THE ENGINEER FOR PROJECT SPECIFIC APPLICATIONS
- REFER TO AT DRAWINGS TCS-C-305 & TCS-A-202. TAC MUTCD 2021 OR TAC PEDESTRIAN CROSSING CONTROL GUIDE 2018
- 3. ALL DIMENSIONS IN METRES UNLESS OTHERWISE NOTED

Scale:	Not To Scale	
Drawn By:	JR	-
Checked By:	JN	
Approved:	JN	
Date:	MAY 2025	



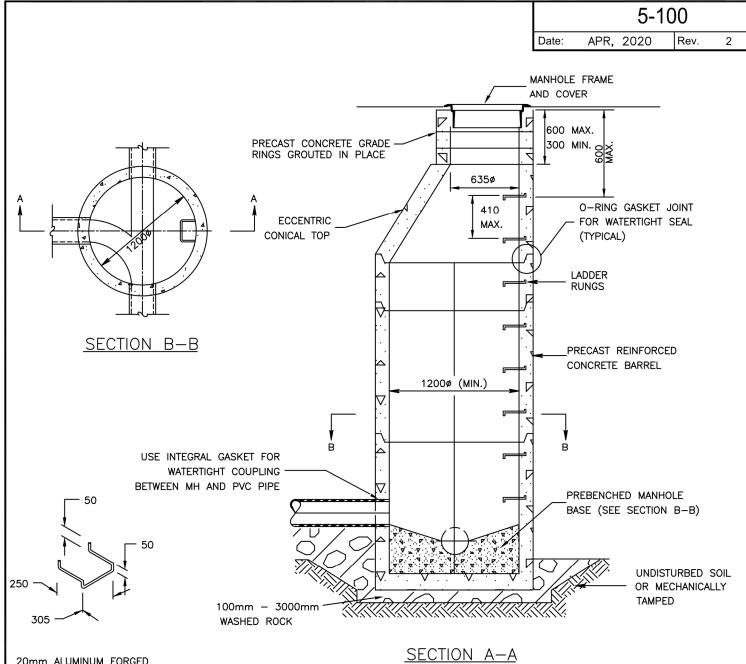
### TOWN OF STONY PLAIN

INTERSECTION PAVEMENT MARKINGS (SHEET 2 OF 2)

# Sanitary Sewer Systems



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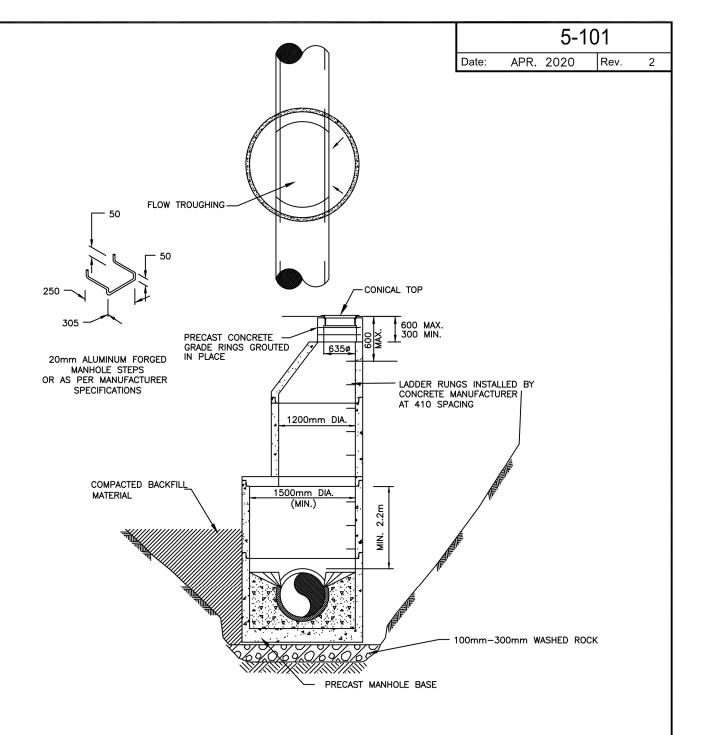
20mm ALUMINUM FORGED MANHOLE STEPS OR AS PER MANUFACTURER **SPECIFICATION** 

#### **NOTES:**

- (1) PRECAST RINGS, CONES AND BARRELS TO MEET CURRENT A.S.T.M. C478 STANDARDS.
- (2) SPECIAL BASE DESIGN REQUIRED FOR DEPTHS OVER 9.0m.
- SMOOTHNESS.
- (4) CONICAL TOP TO BE USED WHERE DISTANCE FROM BENCH TO MH COVER EXCEEDS 2m.
- (5) VERTICAL SIDE OF CONICAL MH TO BE SITUATED SO AS NOT TO CONFLICT WITH PIPING
- (6) MANHOLE FRAME AND COVER TO BE AS PER STANDARD DETAIL 5-300.
- (3) CHANNELLING AND BENCHING TO BE FINISHED TO TROWEL (7) BENCHING CONCRETE SHALL BE A MAXIMUM OF 30MPa COMPRESSIVE STRENGTH, HS (TYPE 50).

Scale:	Not To Scale	♦ TOWN OF	TOWN	OF	STONY	PLAIN
Drawn By:	K.C.	<b>TSTONY</b>				
Checked By:	K.M.	PLAIN		PRECAS	ST MANHOLE FO	NR .
Approved:	K.M.	I LI XIIV			JP TO 600 mm D	100 101 1011
Date:	APRIL 2020					

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#### NOTES:

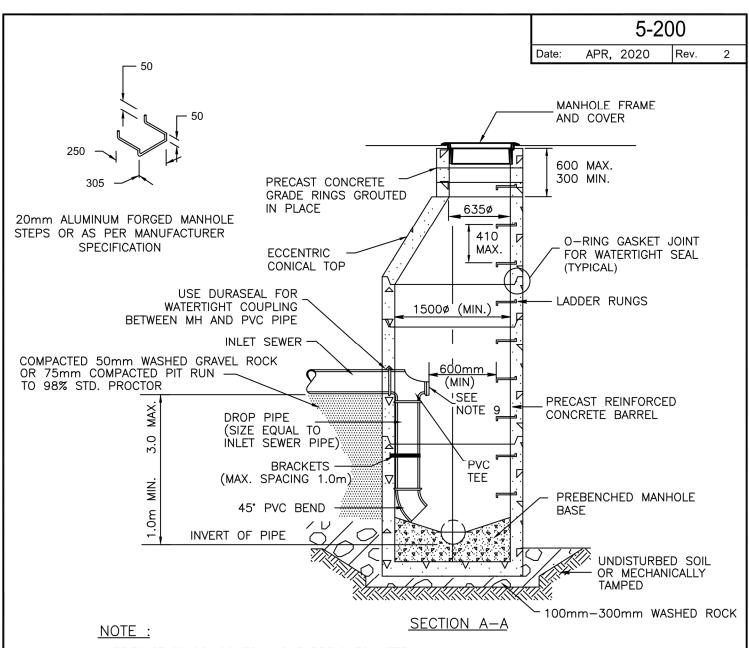
- (1) PRECAST RINGS, CONES AND BARRELS TO MEET CURRENT A.S.T.M. C478 STANDARDS.
- (2) SPECIAL BASE DESIGN REQUIRED FOR DEPTHS OVER 9.0m. ALL BASES TO BE PREFABRICATED WITH THE PIPE CAST INTO THE PIPE.
- (3) CHANNELLING AND BENCHING TO BE FINISHED TO TROWEL SMOOTHNESS.
- (4) CONICAL TOP TO BE USED WHERE DISTANCE FROM BENCH TO MH COVER EXCEEDS 2m.
- (5) VERTICAL SIDE OF CONICAL MH TO BE SITUATED SO AS NOT TO CONFLICT WITH PIPING.
- (6) MANHOLE FRAME AND COVER TO BE AS PER STANDARD DETAIL 5-300.
- (7) BENCHING CONCRETE SHALL BE A MINIMUM OF 30MPa COMPRESSIVE STRENGTH, HS (TYPE 50).
- (8) USE TEE RISER MANHOLES FOR PIPES 1050mm DIA AND LARGER.

Scale:	Not To Scale	★ TOWN OF
Drawn By:	K.C.	TSTONY
Checked By:	K.M.	PLAIN
Approved:	K.M.	ILAIN
Date:	APRIL 2020	

TOWN OF STONY PLAIN

PRECAST MANHOLE FOR PIPES 675mm TO 900mm DIA

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- 1. PRECAST RINGS, CONES AND BARRELS TO MEET CURRENT A.S.T.M. C478 STANDARDS.
- 2. SPECIAL BASE DESIGN REQUIRED FOR DEPTHS OVER 9.0m.
- 3. CHANNELLING AND BENCHING TO BE FINISHED TO TROWEL SMOOTHNESS.
- 4. CONICAL TOP TO BE USED WHERE DISTANCE FROM BENCH TO MH COVER EXCEEDS 2m.
- 5. VERTICAL SIDE OF CONICAL MH TO BE SITUATED SO AS NOT TO CONFLICT WITH PIPING.
- 6. SIZE DIAMETER OF MANHOLE TO PROVIDE A 600mm CLEAR ACCESS PATH
- 7. MANHOLE FRAME AND COVER TO BE AS PER STANDARD DETAIL 5-300.
- 8. BENCHING CONCRETE SHALL BE A MINIMUM OF 30MPA COMPRESSIVE STRENGTH, HS (TYPE 50).
- 9. REMOVE TOP HALF OF PIPE. NO CAP.

Scale:	Not To Scale	♦ TOWN OF	TOWN	OF STONY	PLAIN
Drawn By:	K.C.	<b>TSTONY</b>			
Checked By:	K.M.	PLAIN		INTERNAL	
Approved:	K.M.	T ET KIT		DROP MANHOLE	
Date:	APRIL 2020				

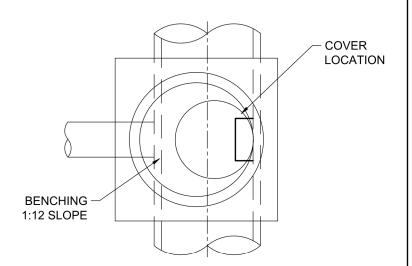
## NOTES: 1. SAFETY STEPS TO BE SPACED AT 400 MAX. DISTANCE. FIRST STEP TO BE 150 MAX. BELOW Date: MAY, 2025 Rev. 1

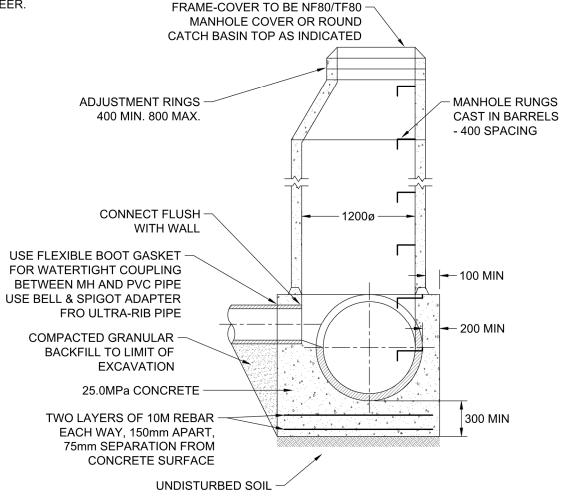
2. ALL JOINTS TO BE SET WITH RUBBER GASKET AND FINISHED WITH NON-SHRINK GROUT INSIDE AND OUTSIDE FOR FULL CIRCUMFERENCE.

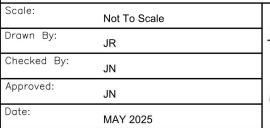
FRAME, LAST STEP TO BE 300, MAX ABOVE

BENCHING.

- CHANNELING AND BENCHING TO BE FINISHED TO TROWEL SMOOTHNESS.
- COMPACT BACKFILL AROUND MANHOLES TO A MINIMUM OF 97% STANDARD PROCTOR DENSITY.
- FOR MANHOLES EXCEEDING 7.0m IN DEPTH A SAFETY PLATFORM SHALL BE INSTALLED.
- 6. THE DEPTHS OF CONCRETE AND
  REINFORCEMENT FOR THE CONCRETE BASE
  MUST BE DESIGNED FOR THE SPECIFIC
  MANHOLE DEPTH AND SOIL CONDITIONS.
- JOINTS BETWEEN GRADE RINGS, GRADE RINGS AND CONES, AND BETWEEN RINGS AND FRAMES MUST BE WATERTIGHT.
- 8. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE INDICATED.
- ANY OVER EXCAVATION TO BE FILLED AS PER GEOTECHNICAL ENGINEER.



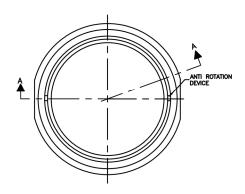




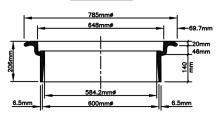


TOWN OF STONY PLAIN

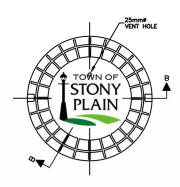
PERCHED MANHOLE



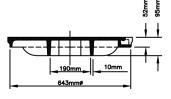
#### FRAME-PLAN



SECTION A-A



COVER-PLAN

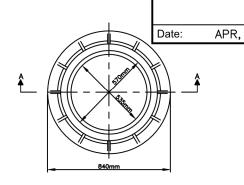


SECTION B-B

## FLOATING TYPE MANHOLE FRAME AND COVER

#### NOTES:

- (1) COVER LETTER HEIGHT 38mm LETTER TYPE - GOTHIC
- (2) CASTINGS SHALL BE TRUE TO PATTERN AND FREE FROM CRACKS, GAS HOLES, FLAWS, SHRINKAGE AND BEARING SURFACE SHALL BE MACHINED TO PREVENT ROCKING.
- (3) USE WITHIN PAVED AREAS



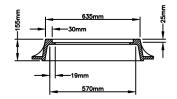
5-300

Rev.

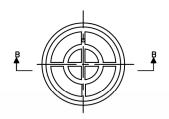
2

2020

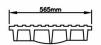
#### FRAME PLAN



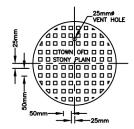
#### SECTION A-A



#### COVER STRUCTURE PLAN



#### SECTION B-B

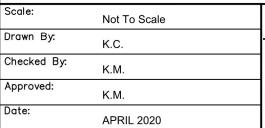


#### COVER SURFACE PLAN

STANDARD MANHOLE FRAME AND COVER

#### NOTES

- (1) COVER LETTER HEIGHT 38mm LETTER TYPE - GOTHIC
- (2) CASTINGS SHALL BE TRUE TO PATTERN AND FREE FROM CRACKS, GAS HOLES, FLAWS, SHRINKAGE AND BEARING SURFACE SHALL BE MACHINED TO PREVENT ROCKING.
- (3) USE FOR OFF ROAD AREAS





TOWN OF STONY PLAIN

MANHOLE FRAMES AND COVERS

-100mm x 100mm WOODEN APRKER POST TOP 300mm PAINTED GREEN SEE SPECIFICATIONS REGARDING SURFACE 1000mm SHALLOW UTILITY EASEMENT 2.5m 1.0m BACKFILL AS SPECIFIED 2.75rr MINIMUM SERVICE PIPE DR28 PVC A MIN. SLOPE 2.00% -LOCATION OF PLUG WITH UTILITY -LOCATION OF PLUG WITH NO UTILITY **EASEMENT** EASEMENT SAND BACKFILL TO BE COMPACTED TO 95% OF STANDARD PROCTOR DENSITY AT OPTIMUM MOISTURE CONTENT 300mm SECTION A-A STONY PLAIN

5-500

Rev.

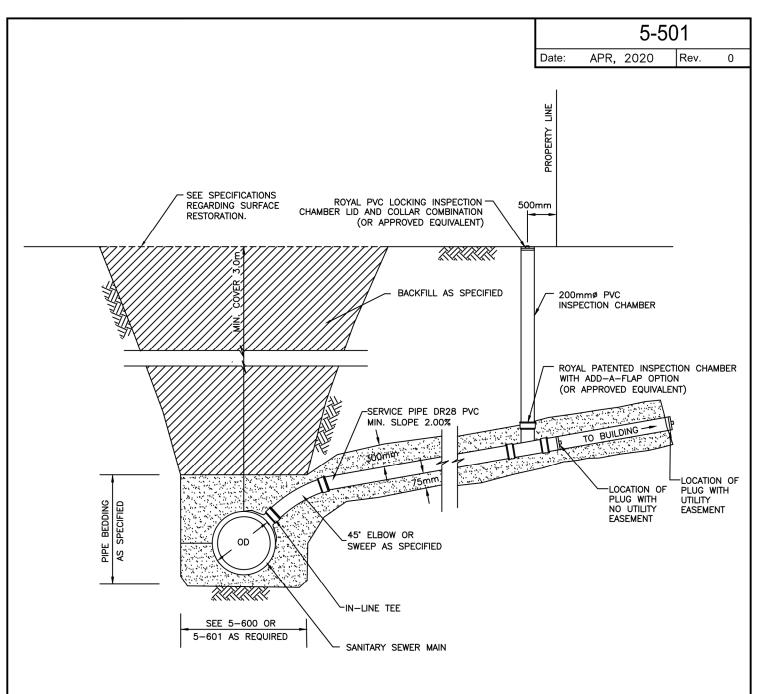
2

APR, 2020

Date:

RESTORATION.

300mm



#### NOTES:

- (1) ALL TRENCH WALLS SHALL BE SLOPED OR SHORED IN CONFORMANCE WITH THE OCCUPATIONAL HEALTH AND SAFETY REGULATIONS CURRENTLY IN EFFECT, OR AS PER GEOTECHNICAL RECOMMENDATIONS, WHICHEVER IS MORE STRINGENT.
- (2) OD = OUTSIDE PIPE DIAMETER.
- (3) SERVICE CONNECTIONS TO BE MADE BETWEEN THE 10:00 AND 2:00 POSITION.
- (4) RISERS FOR SERVICE LINES ARE REQUIRED WHEN SEWER MAINS EXCEED 4.0m IN DEPTH.
- (5) SANITARY INSPECTION CHAMBERS ARE ONLY TO BE USED FOR COMMERCIAL OR INDUSTRIAL LOTS WHICH HAVE BEEN PRE—SERVICED WITH WATER AND SANITARY SERVICES INSTALLED IN A COMMON TRENCH. ALL NEW COMMERCIAL AND INDUSTRIAL LOTS ARE TO HAVE A SAMPLING MANHOLE AS PER STANDARD DETAIL 5—502.

Scale:	Not To Scale	→ TOWN OF
Drawn By:	K.C.	<b>TSTONY</b>
Checked By:	K.M.	PLAIN
Approved:	K.M.	ILAIIV
Date:	APRIL 2020	

TOWN OF STONY PLAIN

SANITARY INSPECTION CHAMBER

Rev.

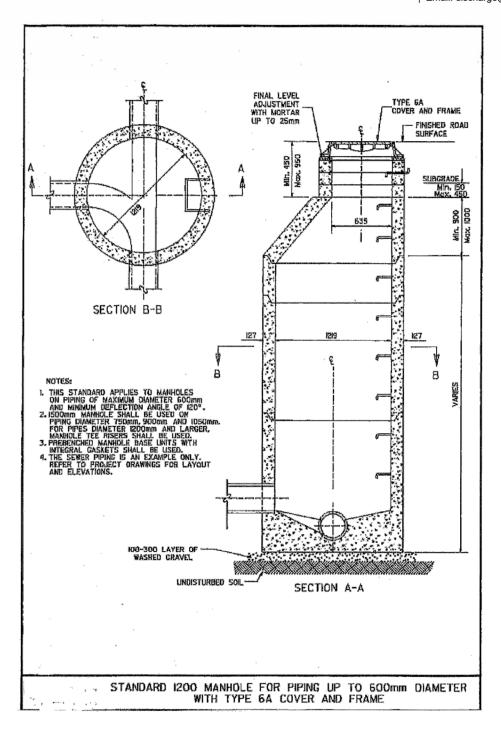
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Date: APR, 2020

23262 Township Road 540 Fort Saskatchewan, AB T8L 4A2

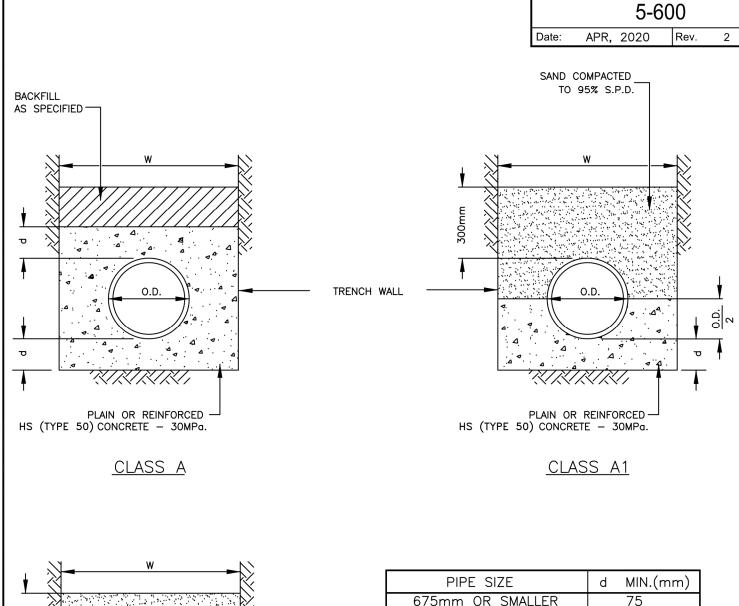
Phone: (780) 467-8655 Email: discharge@acrwc.ab.ca





Scale:	Not To Scale	♦ TOWN OF	TOWN	OF	STONY	PLAIN
Drawn By:	K.C.	<b>TSTONY</b>				
Checked By:	K.M.	DI AINI				_
Approved:	K.M.	I LI III V		SAMPL	ING MANHOL	E.
Date:	APRIL 2020					

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	W	<i>N</i> :	
t		K	
300mm	O.D.	TRENCH WALL	
	X/X/X//	<del>-</del>	NI
	SAND COMPACTED TO 95% SPD		N (1 Z

PIPE SIZE	d MIN.(mm)
675mm OR SMALLER	75
750mm TO 1500mm	100
1650mm AND LARGER	150

#### LEGEND:

d = DEPTH OF BEDDING MATERIAL BELOW PIPE

W = TRENCH WIDTH = 2xOD (MIN.)

O.D. = OUTSIDE DIAMETER OF PIPE

#### NOTE:

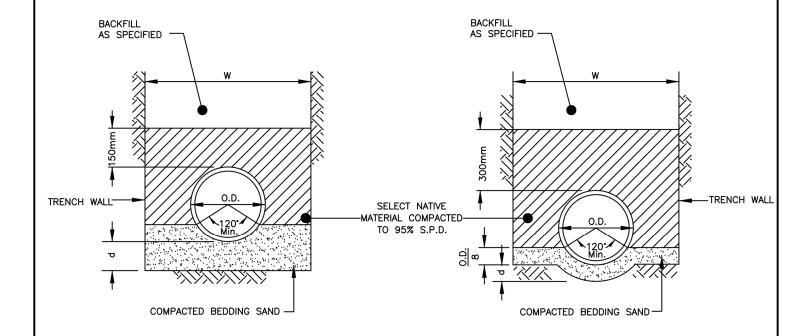
(1) IN AREAS WITH HIGH WATER TABLE, CLASS B PIPE ZONE MATERIAL SHALL BE WASHED ROCK AS PER SECTION 5.18.4 AND SHALL BE WRAPPED IN NON—WOVEN GEOTEXTILE (NILEX 4551 OR APPROVED EQUAL)

Scale:	Not To Scale	★ TOWN OF
Drawn By:	K.C.	TSTONY
Checked By:	K.M.	PLAIN
Approved:	K.M.	ILAIIV
Date:	APRIL 2020	

CLASS B

TOWN OF STONY PLAIN

PIPE ZONE BEDDING DETAILS (CLASS A, A1, B)



DENSELY COMPACTED\_
SELECT NATIVE MATERIAL

BACKFILL AS SPECIFIED

W

TRENCH WALL

CLASS D

CLASS C

PIPE SIZE	d MIN.(mm)
675mm OR SMALLER	75
750mm TO 1500mm	100
1650mm AND LARGER	150

CLASS C-1

ALTERNATE - 375mm I.D. OR SMALLER

LEGEND:

d = DEPTH OF BEDDING MATERIAL BELOW PIPE

W = TRENCH WIDTH 2xOD (MIN.).

O.D. = OUTSIDE DIAMETER OF PIPE

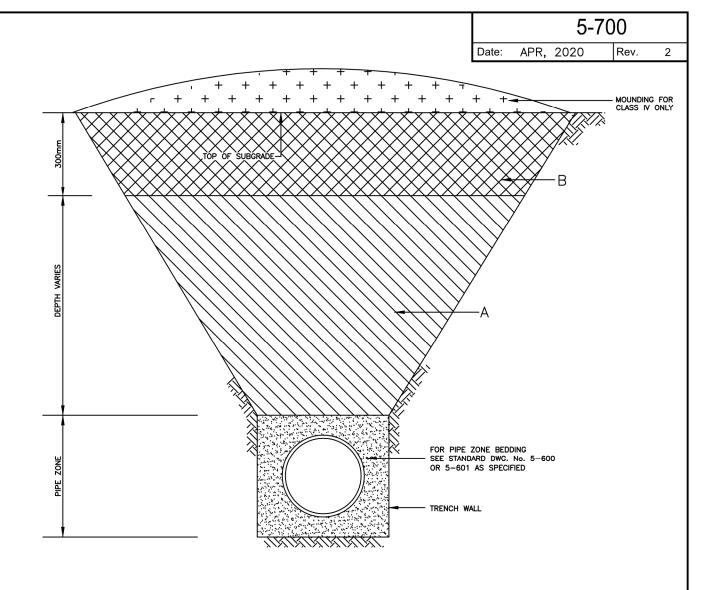
NOTES:

(1) ADD 100mm TO d IN ROCK EXCAVATION

Scale:	Not To Scale	★ TOWN OF	TOWN O	FSTONY	PLAIN
Drawn By:	K.C.	TSTONY			
Checked By:	K.M.	DI AINI	PIPE ZO	NE BEDDING DE	ETAILS
Approved:	K.M.	I L/AIIN	(	CLASS C, C1, D)	
Date:	APRIL 2020				

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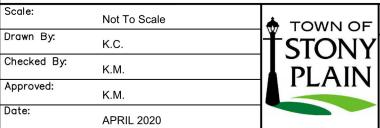
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01.455		Α		В			
CLASS	CLASS USE		MAX LIFT	% SPD	MATERIAL	MAX LIFT	% SPD
1	UNDER ROADS	IMPORTED GRANULAR	200	97	IMPORTED GRANULAR	150	100
II	UNDER ROADS	NATIVE	200	97	NATIVE	150	100
III	LANDSCAPED AREAS	NATIVE	200	95	NATIVE	200	95
IV	OPEN FIELD	NATIVE	300	95	NATIVE	300	95

#### NOTES:

- (1) ALL TRENCH WALLS SHALL BE SLOPED OR SHORED IN CONFORMANCE WITH THE OCCUPATIONAL HEALTH AND SAFETY REGULATIONS CURRENTLY IN EFFECT, OR AS PER GEOTCHNICAL RECOMMENDATIONS, WHICHEVER IS MORE STRINGENT.
- (2) SUBGRADE TO BE SPECIFIED WITH COMPLETE ROADWAY STRUCTURE DESIGN.
- (3) SURFACE DRAINAGE TO BE RECTIFIED FOR IMMEDIATE AREA IF CLASS IV BACKFILL IS USED.
- (4) FILLCRETE MAY BE REQUIRED AS BACKFILL FOR EXISTING ROADWAYS, AT THE DISCRETION OF THE TOWN

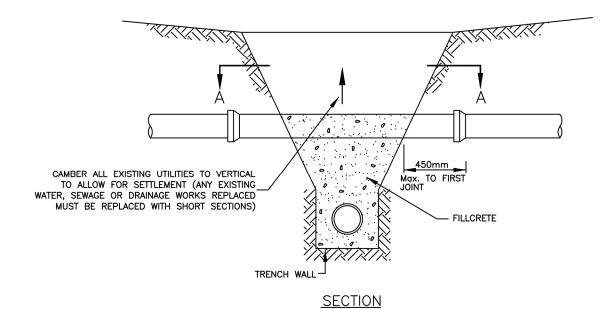


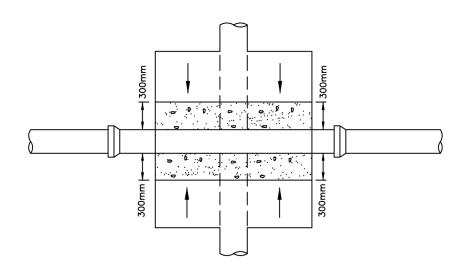
TOWN OF STONY PLAIN

TRENCH BACKFILL FOR NEW CONSTRUCTION

5-800

Date: APR, 2020 Rev. 2



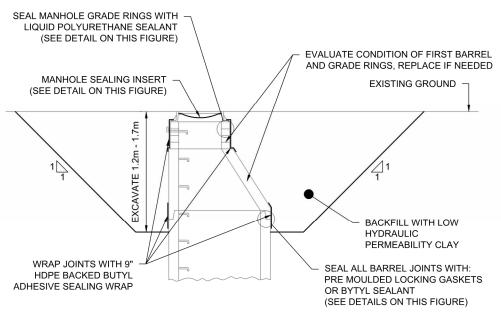


SECTION A-A

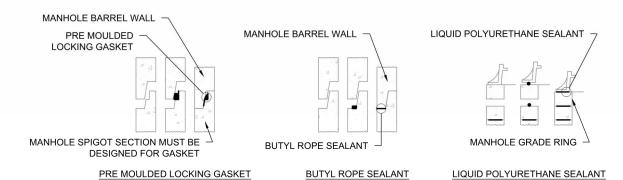
Scale:	Not To Scale	♦ TOWN OF	TOWN	OF	STONY	PLAIN
Drawn By:	K.C.	<b>TSTONY</b>				
Checked By:	K.M.	PLAIN				
Approved:	K.M.		PIPE SUPPORT			
Date:	APRIL 2020					

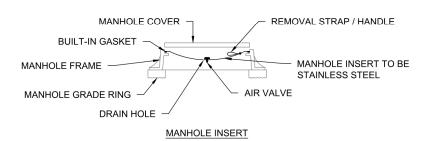
5-900 Rev. 1

MAY, 2025 Date:









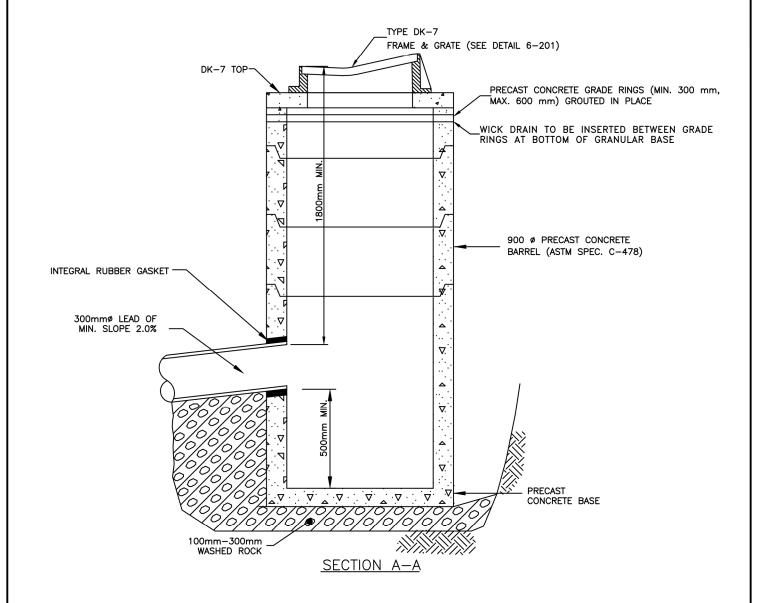
Scale:	Not To Scale
Drawn By:	JR
Checked By:	JN
Approved:	JN
Date:	MAY 2025



#### PLAIN TOWN OF STONY

# Storm Drainage Systems

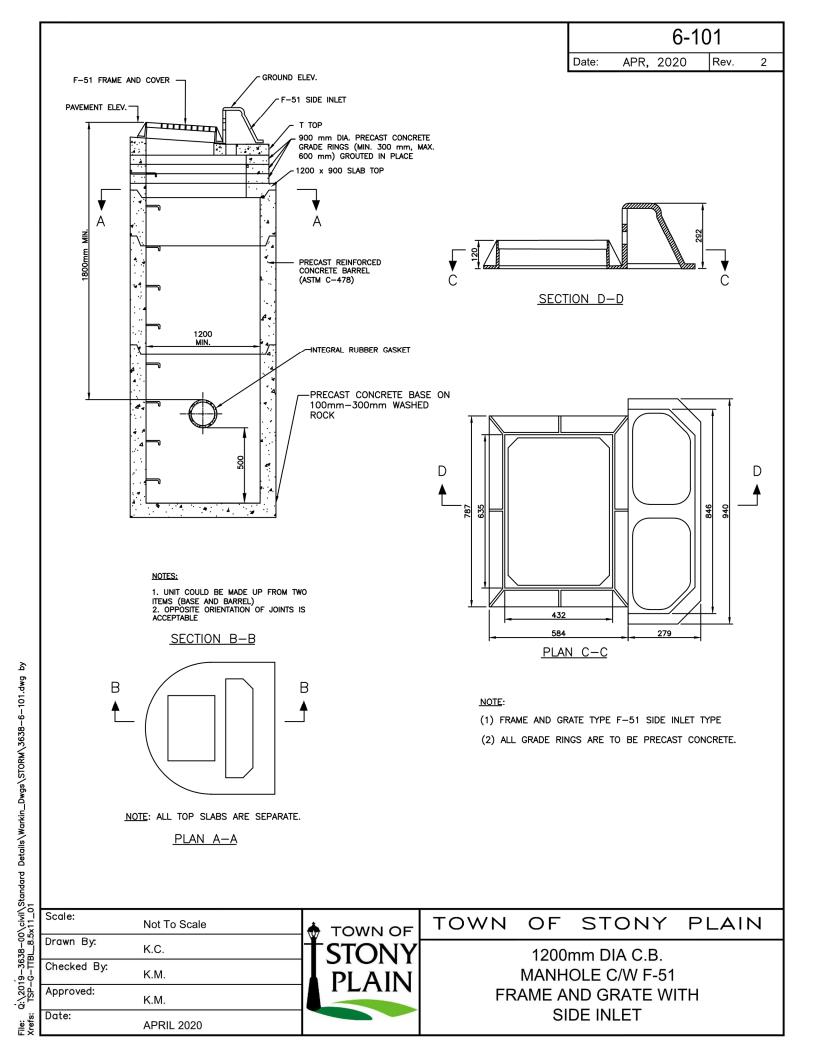


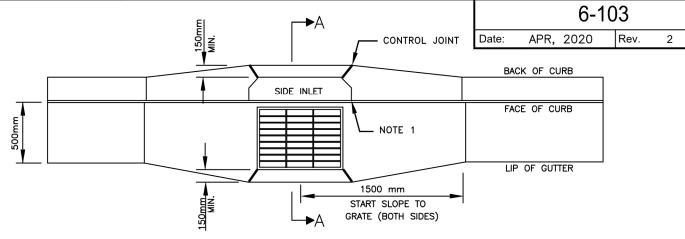


Scale:	Not To Scale	★ TOWN OF
Drawn By:	K.C.	TSTONY
Checked By:	K.M.	PLAIN
Approved:	K.M.	ILAIN
Date:	APRIL 2020	

TOWN OF STONY PLAIN

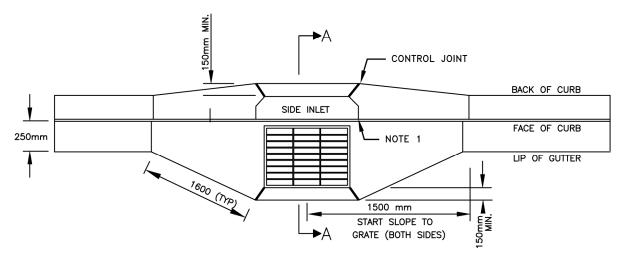
900mm DIA. CATCH BASIN C/W DK-7 FRAME & GRATE



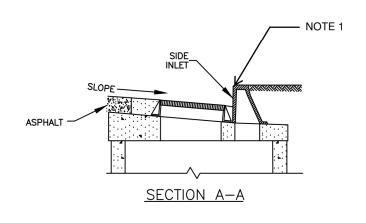


PLAN - F-51 SIDE INLET, FRAME AND COVER SET IN

150mm CURB WITH 500mm GUTTER

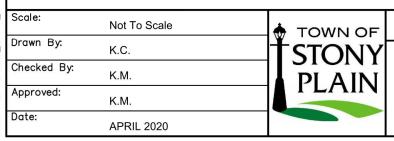


<u>PLAN - F-51 SIDE INLET, FRAME AND COVER SET IN</u>
<u>150mm CURB WITH 250mm GUTTER</u>



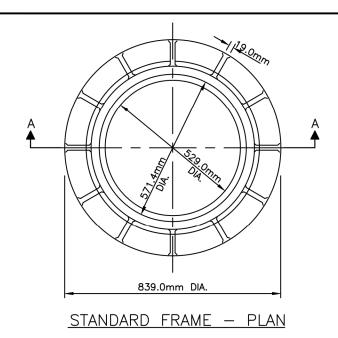
#### **NOTES:**

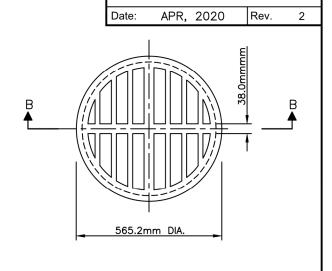
(1) SIDE INLET FACE TO BE SET BACK 1/4" (6mm) FROM FACE OF CURB



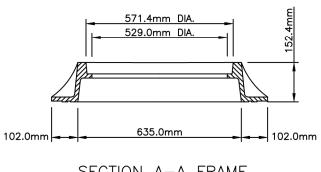
TOWN OF STONY PLAIN

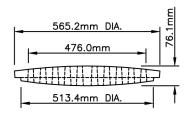
TYPE F-51 CATCH BASIN CURB FINISHING DETAIL





6-200





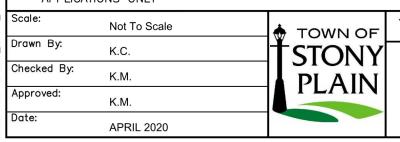
STANDARD TOP - PLAN

SECTION A-A FRAME

SECTION B-B GRATE

### NOTES:

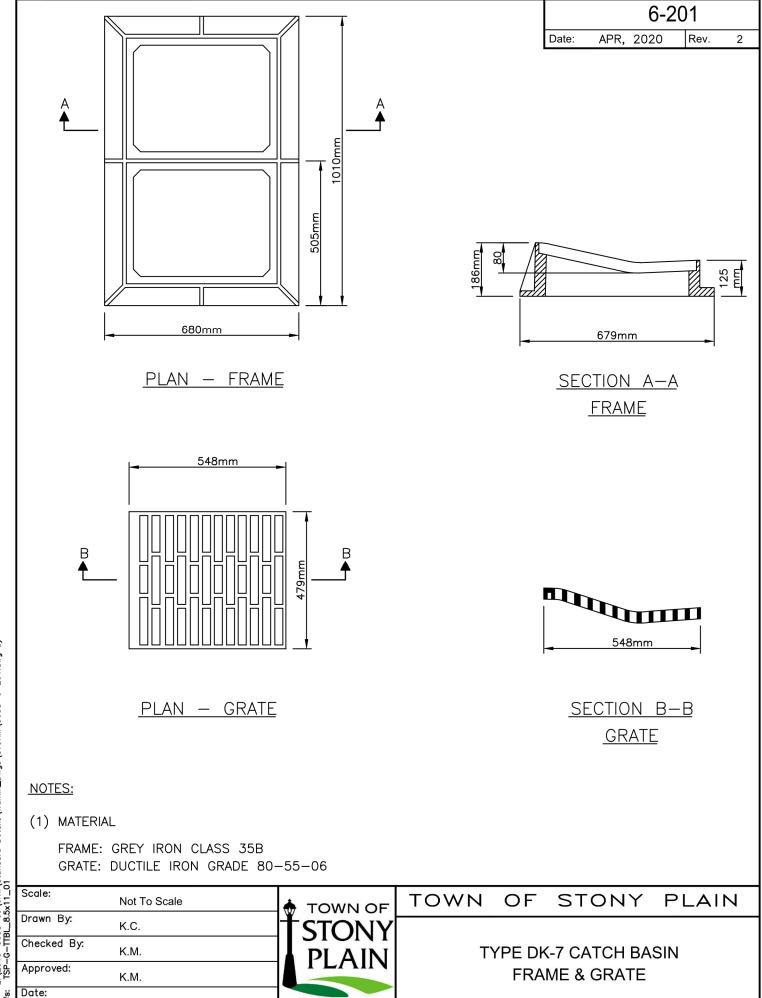
- (1) CASTINGS SHALL CONFORM TO ALL REQUIREMENTS OF A.S.T.M. DESIGNATION A 48 CLASS 35B.
- (2) CASTINGS SHALL BE TRUE TO PATTERN AND FREE FROM CRACKS, GAS HOLES, FLAWS AND EXCESSIVE SHRINKAGE.
- (3) CASTING SURFACES SHALL BE FREE FROM BURNT ON SAND AND SHALL BE SMOOTH.
- (4) CAST ON PIECES SUCH AS RUNNERS AND FINS SHALL BE REMOVED.
- (5) CASTING SHALL NOT ROCK WHEN INSTALLED.
- (6) F-39 FRAME AND GRATE FOR USE IN OFF-ROAD (GRAVELED/ GRASSED) APPLICATIONS ONLY



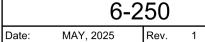
TOWN OF STONY PLAIN

> TYPE F-39 CATCH BASIN/ C.B. MANHOLE FRAME & GRATE

**APRIL 2020** 



- OTES:
  CONTROL PANELS SHALL HAVE UNOBSTRUCTED ACCESS FOR OPERATIONS AND MAINTENANCE WORK. PANELS THAT ARE AT THE OUTER EDGES AND OPEN TO THE OUTSIDE SHALL HAVE AN ENGREEPED PLATFORM AND QUADO PRAIL OF A SHALL HAVE AND ENGREEPED PLATFORM AND QUADO PRAIL ON MAINTENANCE OF 230 MM FROM THE EDGE OF THE CONCRETE. IF THE CONTROL STRUCTURE IS INGHER THAN 0.5 MF ROM THE GROUND, STEPS AND GUARD RAILS SHALL BE INSTALLED OR SOIL RAMPS AND EXCOVERED WITH GRASS. SEE AND GUARD RAILS SHALL BE INSTALLED OR SOIL RAMPS AND EXCEPTION OF THE SALD FOR AND EXCOVERED WITH GRASS. SEE AND GUARD AND STRUCTURE OF THE SALD FROM THE SALD FRO





**DETAIL B DETAIL A** 

- 1. IF a  $\geq$  500 MM, STEPS, AND HANDRAILS ARE REQUIRED, PERIMETER GUARDRAILS ARE NOT REQUIRED. 2. IF a  $\geq$  1200 MM, STEPS, HANDRAILS, AND PERIMETER GUARDRAILS ARE REQUIRED.

#### TYPICAL DETAIL OF GRAB BARS INSTALLATION

- ALUMINIUM GRAB BARS FOR ABOVE GRADE NORMAL ENVIRONMENTS 316 SS GRAB BARS FOR ABOVE GRADE CORROSIVE ENVIRONMENTS AND ALL BELOW GRADE APPLICATIONS
- GRAB BAR GRAB BAR DISTANCE REQUIRED TO BE VERIFIED BY AN ENGINEER. DAVIT BASE MAX. 914 HATCH COVER TO OPEN TO THE RIGHT GUARD RAILS -GRAB BAR -

TOP SLAB DETAIL

Scale: Not To Scale Drawn By: JR Checked By: JN Approved: JN Date: MAY 2025



TOWN OF STONY PLAIN

**CONTROL STRUCTURE LAYOUT** 

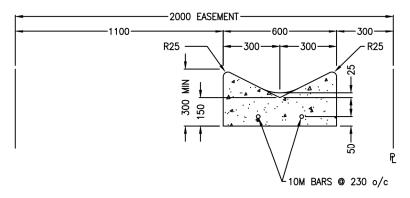
le: 0:\2019-3638-00\civil\Standard Details\Warkin\_Dwgs\STORM\3638-6-300.dwg refs: TSP-G-TTBL\_8.5x11\_01

6-350

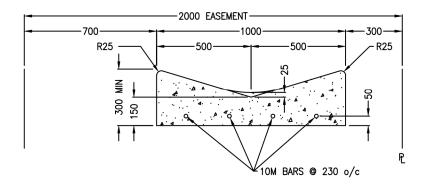
Date:

MAY 2025

	6-360			
Date:	MAY, 2025	Rev.	1	



600mm V-GUTTER (PREFERRED)



1000mm V-GUTTER

#### NOTE:

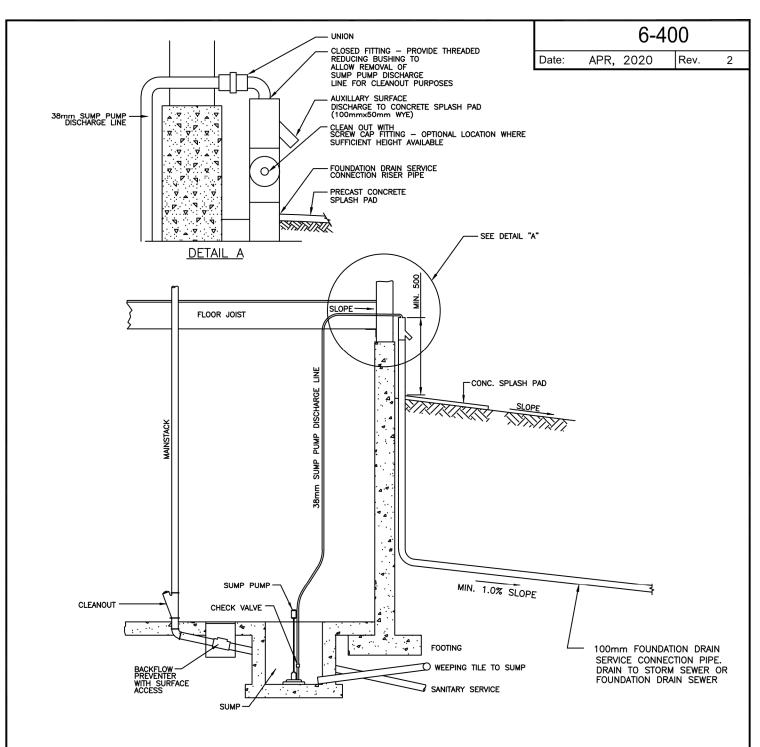
- 1. ALL CONCRETE TO BE 30 MPa TYPE GU CEMENT
- 2. CONTRACTION JOINT TO PROVIDED EVERY  $3.0 \mathrm{m}$
- 3. TO BE USED AT ALL LOCATIONS WHERE OVERLAND ESCAPE FOR A TRAPPED LOW IS NOT ALONG A ROADWAY OR A PAVED PATHWAY
- 4. THIS IS THE MINIMUM ACCEPTABLE SIZE. EACH SITUATION MUST BE EVALUATED SEPARATELY TO ENSURE THE SWALE HAS AN ADEQUATE CROSS-SECTIONAL AREA TO CONVEY THE ANTICIPATED FLOWS
- 5. FOR SWALES WITH DEPTHS GREATER THAN 125, ADD AN ADDITIONAL 10M BAR AT 150 MIN IN EACH SHOULDER. ENSURE 50 MIN COVER
- 6. ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE NOTED

Scale:	Not To Scale	
Drawn By:	JR	-
Checked By:	JN	
Approved:	JN	
Date:	MAY 2025	



TOWN OF STONY PLAIN

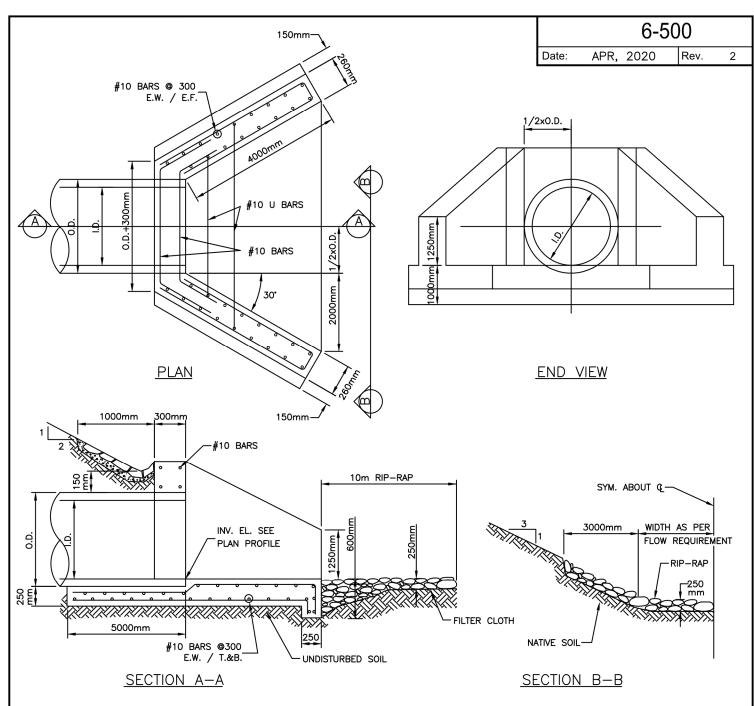
CONCRETE LOT DRAINAGE SWALE



#### NOTES:

- (1) ROOF LEADERS (DOWNSPOUTS) OR ANY OTHER STORM WATER SOURCE MUST NOT BE CONNECTED TO THE FOUNDATION DRAIN DISCHARGE COLLECTION SYSTEM.
- (2) THE AUXILIARY SURFACE DISCHARGE MUST BE INSTALLED TO PROVIDE AN OVERFLOW IN THE EVENT THAT THE STORM DRAINAGE SYSTEM CANNOT ACCOMMODATE FLOWS DUE TO CAPACITY, FREEZING, BLOCKAGE OR OTHER PROBLEMS.
- (3) EVERY PART OF THE PLUMBING SYSTEM SHALL BE PROTECTED FROM FREEZING THROUGH THE USE OF AN APPROVED METHOD.
- (4) WEEPING TILES SHALL NOT TO BE CONNECTED TO THE SANITARY SYSTEM.
- (5) BACKFLOW PREVENTORS SHALL BE INSTALLED BY LOT OWNERS ON ALL SANITARY SERVICES.

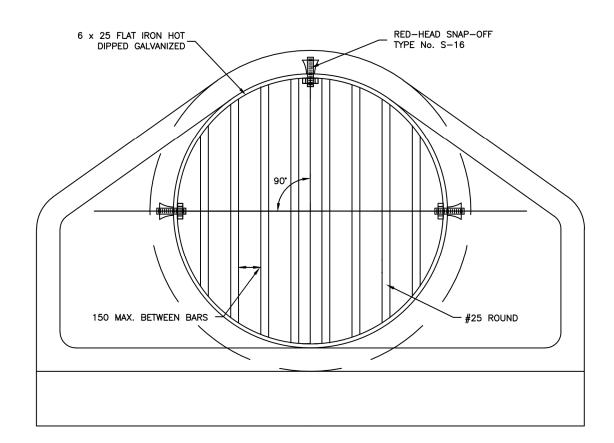
Scale:	Not To Scale	★ TOWN OF	TOWN OF STONY PLAIN
Drawn By:	K.C.	<b>TSTONY</b>	
Checked By:	K.M.	PLAIN	
Approved:	K.M.	I E/ III V	WEEPING TILE DISCHARGE
Date:	APRIL 2020		



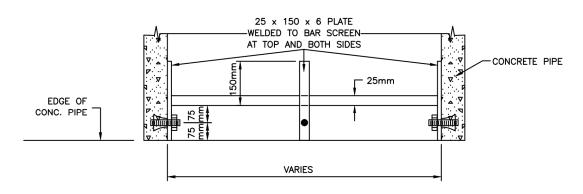
#### NOTES:

- (1) COMPRESSIVE STRENGTH OF STRUCTURE CONCRETE AT 28 DAYS SHALL BE 30 MPa.
- (2) CLEAR COVER FOR REBAR ON EARTH FACE SHALL BE 75mm AND 50mm ELSEWHERE.
- (3) STILLING BASIN SHALL BE REQ'D FOR HIGH VELOCITY FLOWS
- (4) ALL FILTER CLOTH PANEL JOINTS TO OVERLAP 100mm AND BE HEAT SEALED
- (5) FILTER CLOTH TYPE TO BE AS PER SPECIFIED
- (6) SEE STD. DWG. NO. 6-501 FOR BAR SCREEN
- (7) RIP-RAP TO BE ALBERTA TRANSPORTATION CLASS 1M RIP-RAP AS PER TABLE 6-4.
- (8) RIP-RAP TO BE INSTALLED AS PER STANDARD DETAIL 6-900.
- (9) SAFETY RAILING REQUIRED WERE DROP EXCEEDS 1.00m

Scale:	Not To Scale	♦ TOWN OF	TOWN OF STONY PLAIN
Drawn By:	K.C.	TSTONY	
Checked By:	K.M.	PLAIN	POURED CONCRETE
Approved:	K.M.	I L/AIIV	OUTFALL STRUCTURE
Date:	APRIL 2020		



# FRONT VIEW

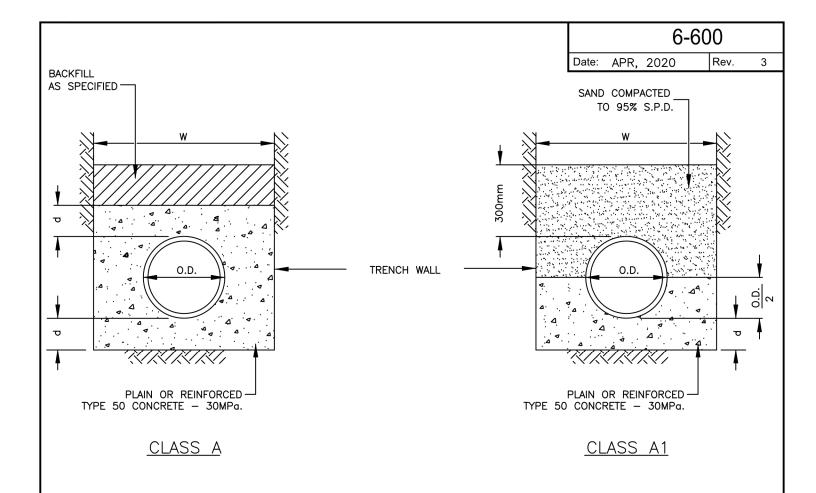


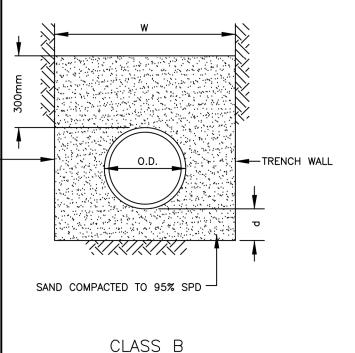
# TOP VIEW

## NOTES:

- (1) BAR SCREENS FOR INLET AND OUTLET STRUCTURE ARE TO BE LOCKABLE.
- (2) INLET AND OUTLET BARS SHALL BE VERTICAL.

Scale:	Not To Scale	♦ TOWN OF	TOWN OF STONY PLAIN			
Drawn By:	K.C.	TSTONY				
Checked By:	K.M.	PLAIN	BAR SCREEN FOR INLET			
Approved:	K.M.	ILAIN	AND OUTFALL STRUCTURE			
Date:	APRIL 2020					





PIPE SIZE	d MIN.(mm)
675mm OR SMALLER	75
750mm TO 1500mm	100
1650mm AND LARGER	150

### LEGEND:

d = DEPTH OF BEDDING MATERIAL BELOW PIPE

W = TRENCH WIDTH = 2xOD (MIN.)

O.D. = OUTSIDE DIAMETER OF PIPE

# NOTES:

- (1) ADD 100mm TO d IN ROCK EXCAVATION.
- (2) IN AREAS WITH HIGH WATER TABLE, CLASS B PIPE ZONE MATERIAL SHALL BE WASHED ROCK AS PER SECTION 5.18.4 AND SHALL BE WRAPPED IN NON—WOVEN GEOTEXTILE (NILEX 4551 OR APPROVED EQUAL)

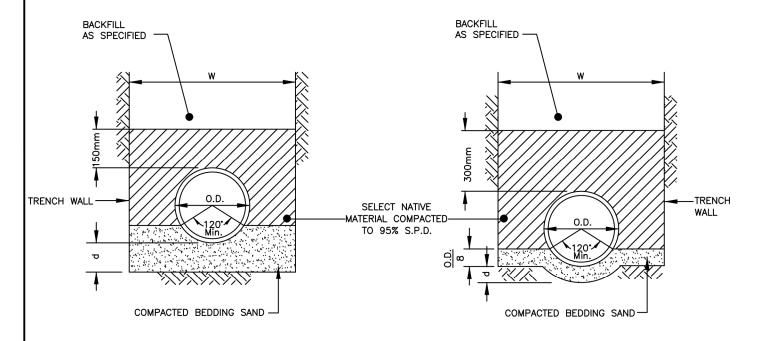
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Drawn By:	K.C.	۲s
Checked By:	K.M.	l T
Approved:	K.M.	
Date:	APRIL 2020	



TOWN OF STONY PLAIN

PIPE ZONE BEDDING DETAILS (CLASS A, A1, B)

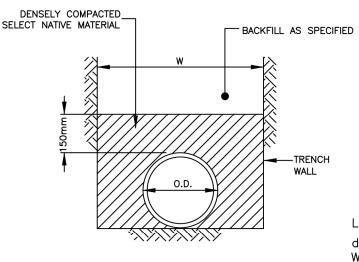
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CLASS C

CLASS C-1

ALTERNATE - 375mm I.D. OR SMALLER



CLASS D

PIPE SIZE	d MIN.(mm)
675mm OR SMALLER	75
750mm TO 1500mm	100
1650mm AND LARGER	150

LEGEND:

d = DEPTH OF BEDDING MATERIAL BELOW PIPE

W = TRENCH WIDTH = 2xOD (MIN.)

O.D. = OUTSIDE DIAMETER OF PIPE

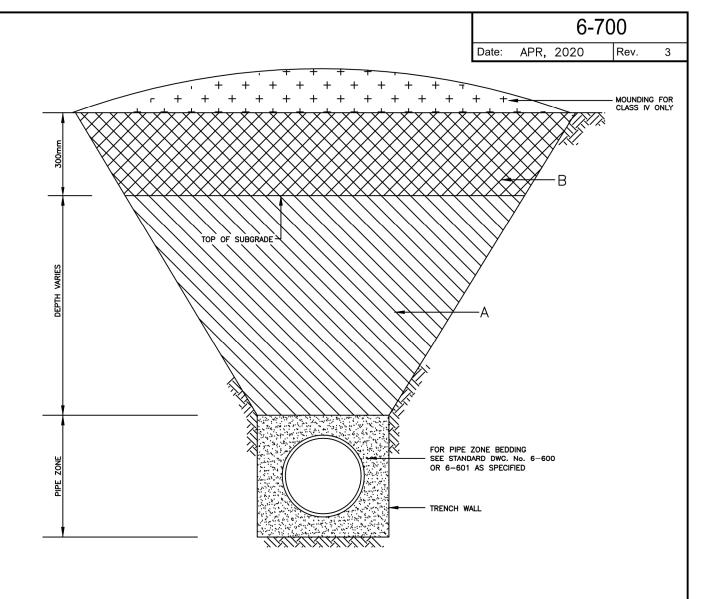
NOTES:

(1) ADD 100mm TO d IN ROCK EXCAVATION.

Scale:	Not To Scale	★ TOWN OF
Drawn By:	K.C.	TSTONY
Checked By:	K.M.	PLAIN
Approved:	K.M.	ILIAIIV
Date:	APRIL 2020	

TOWN OF STONY PLAIN

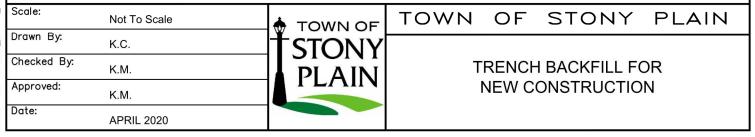
PIPE ZONE BEDDING DETAILS (CLASS C, C1, D)

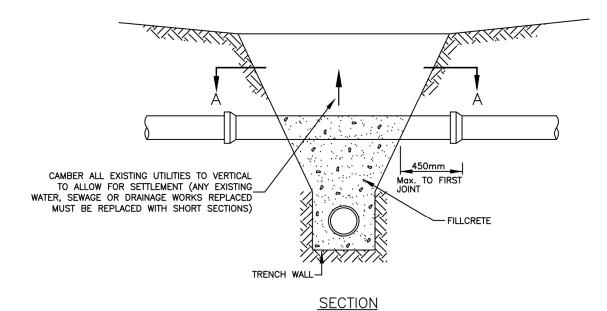


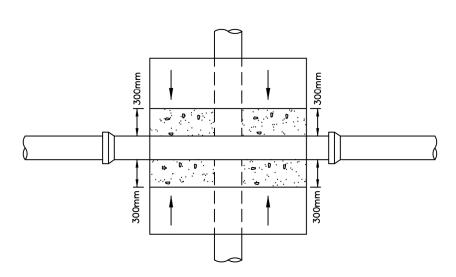
01.466			Α		В		
CLASS	USE	MATERIAL	MAX LIFT	% SPD	MATERIAL	MAX LIFT	% SPD
ı	UNDER ROADS	IMPORTED GRANULAR	200	97	IMPORTED GRANULAR	150	100
II	UNDER ROADS	NATIVE	200	97	NATIVE	150	100
III	LANDSCAPED AREAS	NATIVE	200	95	NATIVE	200	95
IV	OPEN FIELD	NATIVE	300	95	NATIVE	300	95

### NOTES:

- (1) ALL TRENCH WALLS SHALL BE SLOPED OR SHORED IN CONFORMANCE WITH THE OCCUPATIONAL HEALTH AND SAFETY REGULATIONS CURRENTLY IN EFFECT, OR AS PER GEOTECHNICAL RECOMMENDATIONS, WHICHEVER IS MORE STRINGENT.
- (2) SUBGRADE TO BE SPECIFIED WITH COMPLETE ROADWAY STRUCTURE DESIGN.
- (3) SURFACE DRAINAGE TO BE RECTIFIED FOR IMMEDIATE AREA IF CLASS IV BACKFILL IS USED.
- (4) FILLCRETE MAY BE REQUIRED AS BACKFILL FOR EXISTING ROADWAYS, AT THE DISCRETION OF THE TOWN







# SECTION A-A

S	cale:	Not To Scale	<b>♦</b> TOWN OF	TOWN	OF	STONY	PLAIN
łL	rawn By:	K.C.	TSTONY				
·	hecked By:	K.M.	PLAIN		DIDI		
Ĺ	pproved:	K.M.	I LI XII V	PIPE SUPPORT			
į D	ate:	APRIL 2020					

FOR CULVERTS

ile: Q:\2019-3638-00\civi\\Standard Details\Warkin\_Dwgs\STORN\3638-6-900.dwg frefs: TSP-6-TTBL\_8.5x11\_01

Date:

K.M.

**APRIL 2020** 

Date: APR, 2020

Rev. 0

# **STORMWATER FACILITY**

# CAUTION

THIS IS A MAN-MADE FACILITY DESIGNED
TO HELP CONTROL FLOODING DURING
RAINSTORMS AND SNOW MELT. WATER LEVELS,
WATER QUALITY AND ICE THICKNESS CAN
CHANGE SUDDENLY WITHOUT NOTICE. FOR
YOUR SAFETY, RECREATION IS NOT ALLOWED.



NO SWIMMING OR WADING



NO DUMPING FISH



NO PETS IN WATER



**NO BOATING** 



**KEEP OFF ICE** 



**NO SKATING** 



**NO SLEDDING** 



NO THROWING ROCKS



Scale:	Not To Scale
Drawn By:	K.C.
Checked By:	K.M.
Approved:	K.M.
Date:	APRIL 2020

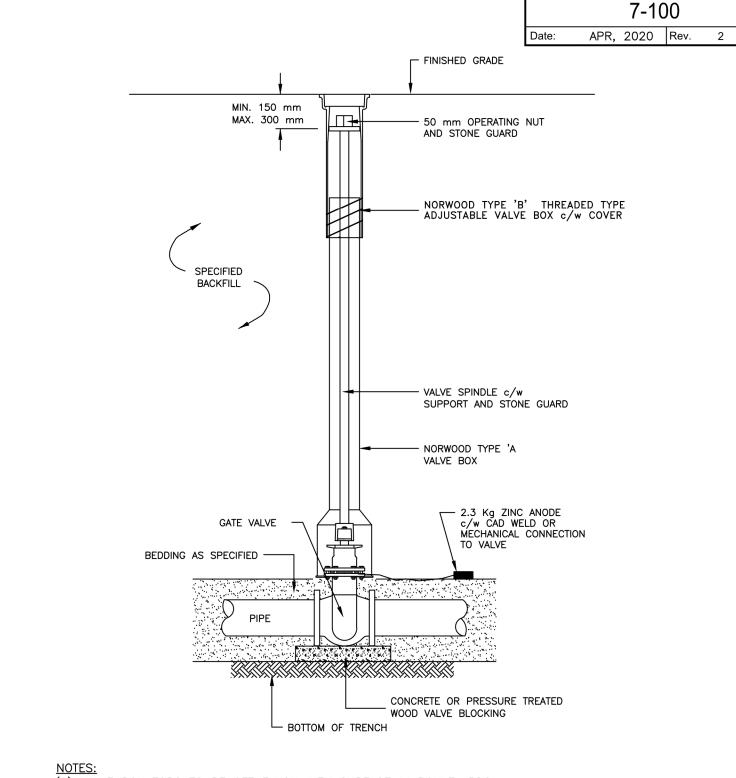


TOWN OF STONY PLAIN

STORMWATER MANAGEMENT FACILITY
CAUTION SIGN

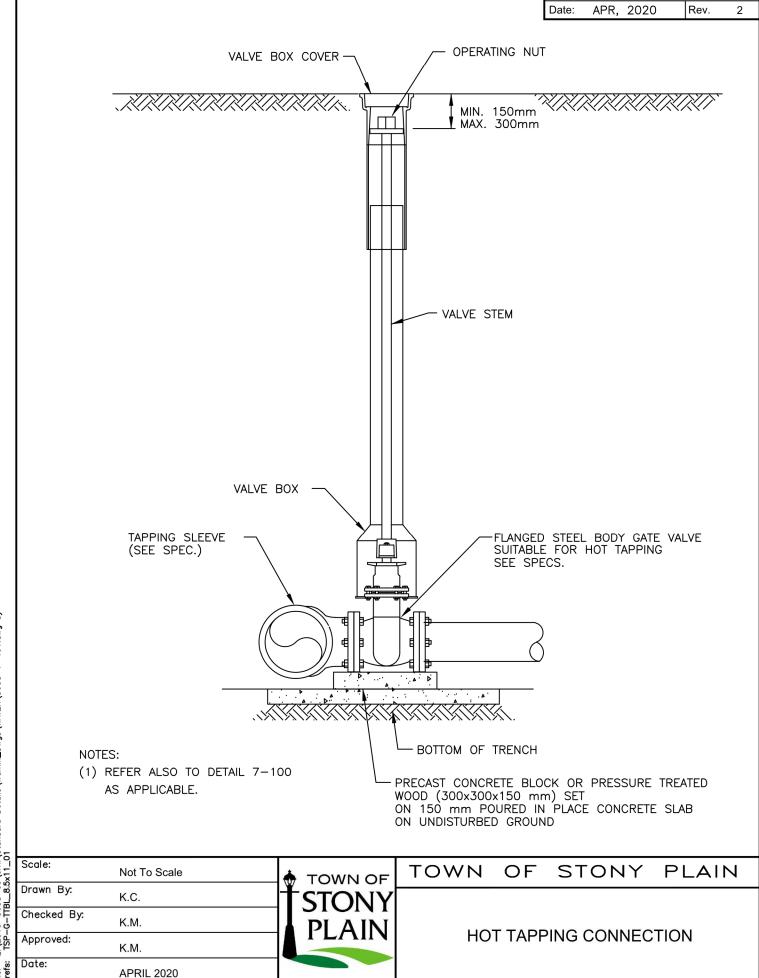
# Water Distribution Systems





- (1) VALVE BOX TOPS TO BE SET FLUSH WITH SURFACE IN BOULEVARDS, GREEN SPACES AND CONCRETE PAVEMENT.
- (2) VALVES REQUIRE THRUST BLOCKS. DEVELOPER'S CONSULTANT TO REVIEW AND PROVIDE RECOMMENDATIONS FOR MECHANICAL JOINT RESTRAINTS IN AREAS OF UNSUITABLE SOIL CONDITIONS.
- (3) RISERS ARE NOT PERMITTED IN NEW CONSTRUCTION.
- (4) STONE GUARD NOT TO BE BOLTED TO SPINDLE.

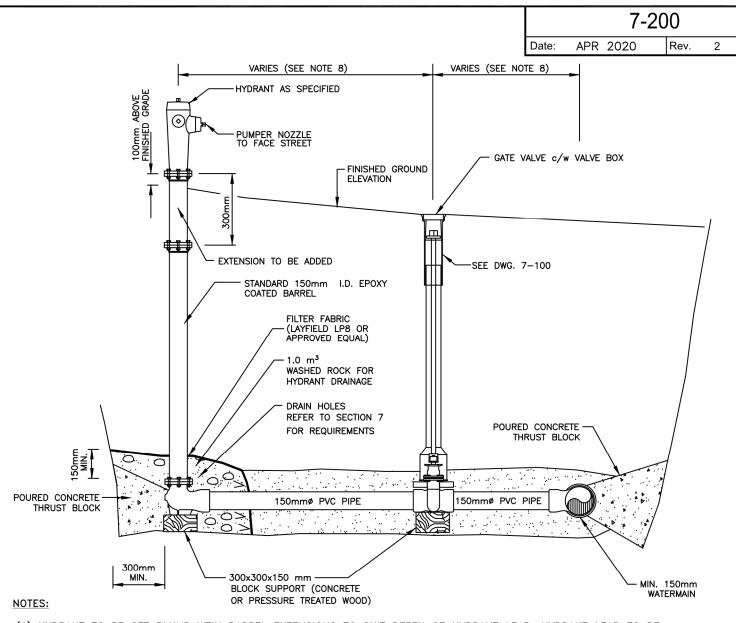
Scale:	Not To Scale	♦ TOWN OF	TOWN OF STONY PLAIN			
Drawn By:	K.C.	<b>TSTONY</b>				
Checked By:	K.M.	PLAIN	WATER VALVE INSTALLATION			
Approved:	K.M.	I LI XII V				
Date:	APRIL 2020					



7-101

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- (1) HYDRANT TO BE SET PLUMB WTIH BARREL EXTENSIONS TO SUIT DEPTH OF HYDRANT LEAD. HYDRANT LEAD TO BE SET LEVEL WITH A MIN. OF 3.0m OF COVER ABOVE TOP OF PIPE. EXTENSION TO BE INSTALLED BETWEEN HYDRANT AND TOP OF BARREL. BREAKWAWAY FLANGE AND ROD COUPLER MUST BE ADJUSTED TO SAME ELEVATION.
- (2) ALL THRUST BLOCKING TO BE AGAINST UNDISTURBED TRENCH WALL WITH DRAIN HOLES CLEAR OF CONCRETE.
- (3) VALVE BOX TO BE INSTALLED IN VERTICAL POSITION WITH TOP FLUSH WITH FINISHED GRADE.
- (4) HYDRANT SHALL BE COMPRESSION TYPE AS SPECIFIED.
- (5) ALL CAST IRON VALVES AND FITTINGS SHALL BE CATHODICALLY PROTECTED BY 5.5kg SACRAFICIAL ANODES, HYDRANT SHALL BE CATHODICALLY PROTECTED BY 7.7kg SACRAFICIAL ANODE.
- (6) HYDRANT TO BE SUPPLIED WITH BREAKAWAY FLANGE.
- (7) CONCRETE TO BE 30MPa HS (TYPE 50).
- (8) SEPARATE WALK: HYDRANT VALUVE TO BE 0.5m FROM HYDRANT.

MONOWALK: HYDRANT VALVE TO BE WITHIN ASPAHLT.

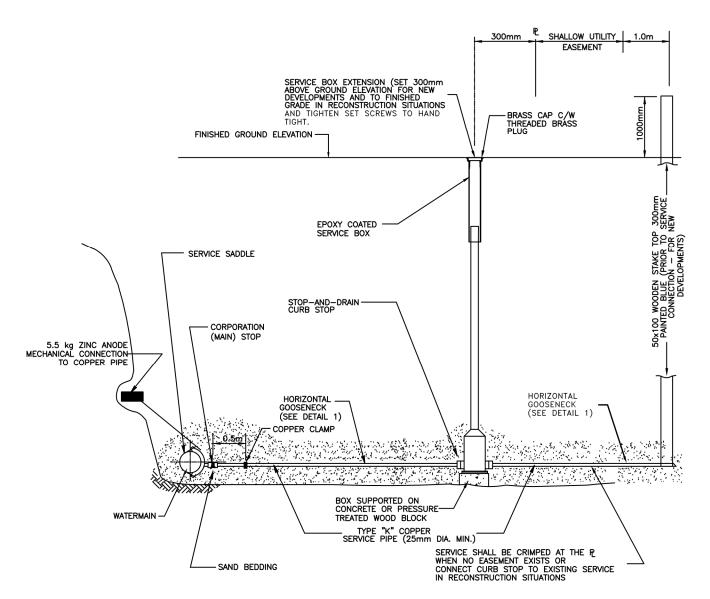
IN NO CASE SHALL A HYDRANT VALVE BE LOCATED IN A SIDEWALK.

(9) BREAKAWAY RODS TO BE SAME HEIGHT AS BREAKAWAY FLANGE.

Scale:	Not To Scale	★ TOWN OF	TOWN OF STONY PLAIN			
Drawn By:	K.C.	<b>TSTONY</b>				
Checked By:	K.M.	PLAIN				
Approved:	K.M.	ILIAIIV	HYDRANT INSTALLATION			
Date:	APRIL 2020					

File: Q:\2019-3638-00\civil\Standard Details\Warkin\_Dwgs\WATER\3638-7-300.dwg by Xrefs: TSP-G-TTBL\_8.5x11\_01

**7-300**Date: APR, 2020 Rev. 2



### NOTES:

- (1) SERVICES TO BE INSTALLED AT RIGHT ANGLES TO WATERMAINS WHERE POSSIBLE
- (2) SERVICE BOXES TO BE INSTALLED PLUMB
- (3) DIAMETER OF SERVICE PIPE TO BE UNIFORM FROM CORPORATION STOP TO METER
- (4) MINIMUM COVER OVER SERVICE PIPES TO BE 2.8m
- (5) GOOSENECK TO BE PLACED SUCH THAT SETTLEMENT TIGHTENS THE MAIN STOP INTO THE MAIN AT THE 3 O'CLOCK POSITION WHEN FACING THE MAIN



DETAIL 1- PLAN VIEW HORIZONTAL GOOSENECK

Scale:	Not To Scale	•
Drawn By:	K.C.	
Checked By:	K.M.	
Approved:	K.M.	
Date:	APRIL 2020	



TOWN OF STONY PLAIN

WATER SERVICE CONNECTION

**CURB STOPS** 

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Date:

**APRIL 2020** 

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**7-310**Date: MAY, 2025 Rev. 1

TYPICAL SINGLE-FAMILY LOT DUAL SERVICE ALL COMMENTS TO SINGLE SERVICE APPLIED TO DUAL SERVICE EASEMENT LIMIT LOT PROPERTY LINE BELL AT PROPERTY LINE FOR SANITARY AND STORM SERVICE 22.5° BENDS 22.5° BENDS WATER SERVICE WATER SERVICE SANITARY SEWER SERVICE SANITARY SEWER SERVICE STORM SEWER SERVICE STORM SEWER SERVICE (WHERE APPLICABLE) 300 300 INLINE TEE OR WYE STORM SEWER MAIN SANITARY SEWER MAIN WATER MAIN 300mm HORIZONTAL GOOSENECK STORM SEWER SERVICE (FOUNDATION DRAIN) SANITARY SEWER SERVICE CURB STOP -BELL AT PROPERTY LINE FOR SANITARY AND STORM SERVICE PROPERTY LINE SERVICE TO ENTER LOT WITHIN 2.25m OF CENTRELINE GAS LINE PROPERTY LINE LOT

### NOTES

1. WATER AND SEWER SERVICES MAY BE EXTENDED TO EDGE OF 4.0m GAS EASEMENT.

TYPICAL SINGLE-FAMILY LOT SINGLE SERVICE

- 2. THE COUNTY ACCEPTS NO RESPONSIBILITY FOR THE CONSTRUCTION OR MAINTENANCE OF SERVICES INSTALLED WITHIN THE EASEMENT
- MARK ENDS OF SERVICES AT EDGE OF GAS EASEMENT WITH A 50mm X 100mm X 750mm STAKE PROTRUDING 450mm ABOVE GROUND AND PAINTED BLUE. MARK THE CURB CONTROL VALVE WITH A SIMILAR STAKE PAINTED RED.
- 4. THE END OF WATER SERVICE PIPING SHOULD NOT BE CRIMPED CLOSED, PERMEABLY FILTER CLOTH MAY BE USED TO PREVENT INTRUSION OF DEBRIS AND TO ALLOW TESTING FLOW OF CURBSTOP.

PLUGS

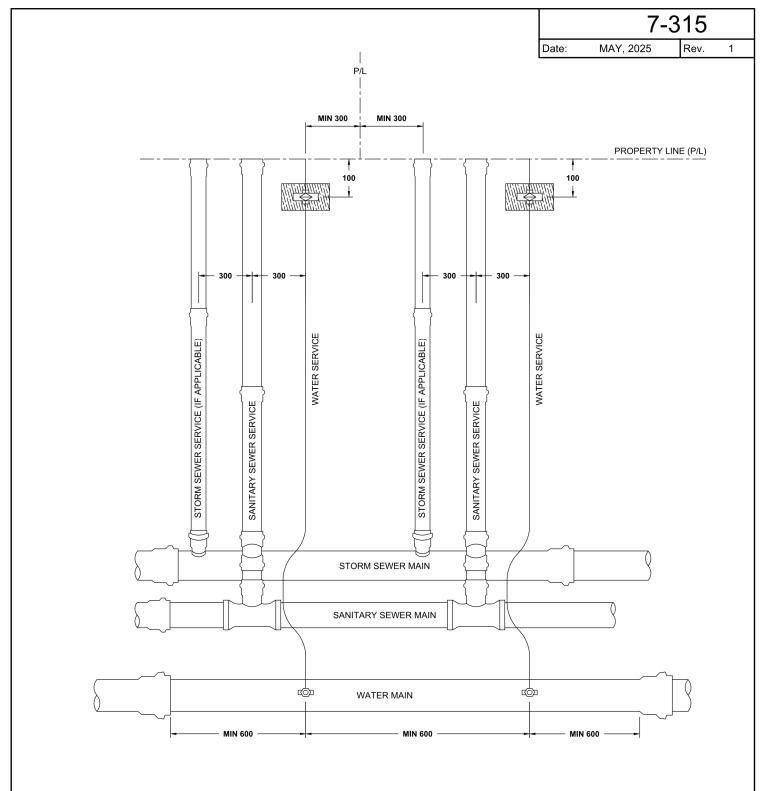
DIMENSIONS IN MILLIMETRES (mm) UNLESS OTHERWISE NOTED.

Scale:	Not To Scale	
Drawn By:	JR	-
Checked By:	JN	
Approved:	JN	
Date:	MAY 2025	



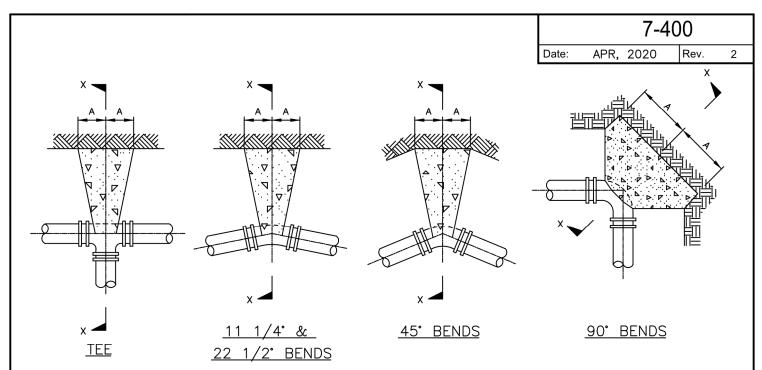
# TOWN OF STONY PLAIN

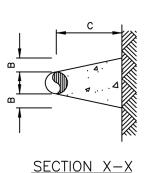
TYPICAL SINGLE FAMILY LOT RESIDENTIAL SERVICES (SINGLE AND DUAL)



- SANITARY SERVICE TO BE LOCATED TO LEFT OF WATER SERVICE
- MIN. GRADE OF SANITARY SERVICE TO BE 2.0%
- NO JOINTS BETWEEN PROPERTY LINE AND PLUG AND/OR CRIMP
  SERVICE TO END AT PROPERTY LINE WHEN NO EASEMENT EXISTS OR 1.0m PAST SHALLOW UTILITY EASEMENT

Scale:	Not To Scale	<b>♦</b> TOWN OF	TOWN OF STONY PLAIN
Drawn By:	JR	TSTONY	
Checked By:	JN	PIAIN	TYPICAL DUAL SERVICE FOR
Approved:	JN	I L/ XII V	DUPLEX/SEMI-DETACHED LOTS
Date:	MAY 2025		





		FITTINGS														
PIPE SIZE	TEI	E & DE	EAD EN	D	11 1/4	* & 2		BENDS		45° B	END			90°	BEND	
	Α	В	С	BEARING AREA	Α	В	С	BEARING AREA	Α	В	С	BEARING AREA	Α	В	С	BEARING AREA
	(mm)	(mm)	(mm)	(m <sup>2</sup> )	(mm)	(mm)	(mm)	(m <sup>2</sup> )	(mm)	(mm)	(mm)	(m <sup>2</sup> )	(mm)	(mm)	(mm)	(m²)
150	348	100	275	0.244	159	75	225	0.095	311	75	225	0.187	575	75	225	0.345
200	433	150	400	0.433	211	100	300	0.169	415	100	300	0.332	766	100	300	0.613
250	521	200	525	0.677	264	125	375	0.264	518	125	375	0.518	958	125	375	0.958
300	609	250	650	0.975	317	150	450	0.380	622	150	450	0.746	1149	150	450	1.379
400	867	300	800	1.733	423	200	600	0.676	829	200	600	1.327	1532	200	600	2.451
450	954	350	925	2.194	476	225	675	0.856	933	225	675	1.679	1724	225	675	3.102
600	1393	400	1100	3.900	634	300	900	1.522	1244	300	900	2.985	2298	300	900	5.515
750	1741	500	1375	6.094	793	375	1125	2.378	1555	375	1125	4.664	2873	375	1125	8.618

### **NOTES:**

- (1) ALL DIMENSION ARE IN MILLIMETRES UNLESS OTHERWISE SPECIFIED.
- (2) DESIGN BASIS:
  - a. HYDRAULIC DESIGN PRESSURE 690kPa (100psi)
  - b. SOIL BEARING CAPACITY 50kPa (1044 lb/sq.ft)(SOFT CLAY)
- (3) CONCRETE THRUST BLOCK BEARING SURFACE AREA AND PARAMETER "A","B", & "C" MUST BE ADJUSTED IF HYDRAULIC DESIGN PRESSURE AND SOIL BEARING CAPACITY ARE DIFFERENT THAN SHOWN IN ITEM 2, DESIGN BASIS.
- (4) HYDRAULIC DESIGN PRESSURE MUST INCLUDE HIGHEST OPERATING PRESSURE SCENARIO WITH SURGE PRESSURE INCLUDED.
- (5) TEMPORARY BLOCKING MUST BE APPROVED BY THE ENGINEER.
- (6) CONCRETE STRENGTH SHALL BE 30MPa AT 28 DAYS, SULPHATE RESISTANT.
- (7) CONCRETE TO BE CLEAR OF BELLS AND TO BEAR AGAINST UNDISTURBED TRENCH WALLS.
- (8) CONCRETE TO BE PLACED UNDER ALL FITTINGS.
- (9) CONCRETE TO BE CURED FOR 24 HOURS PRIOR TO BACKFILLING.
- (10) BOND BREAKER TO BE USED BETWEEN CONCRETE AND FITTINGS.
- (11) IF THE DESIGN IS BASED ON INFORMATION NOT VERIFIED IN THE FIELD AND NOT SUPPORTED BY HYDRAULIC MODELING / CALCULATIONS, A MIN. FACTOR OF SAFETY 1.50 SHOULD BE APPLIED TO ALL TABULATED BEARING AREAS.

Scale:	Not To Scale	
Drawn By:	K.C.	-
Checked By:	K.M.	
Approved:	K.M.	
Date:	APRIL 2020	

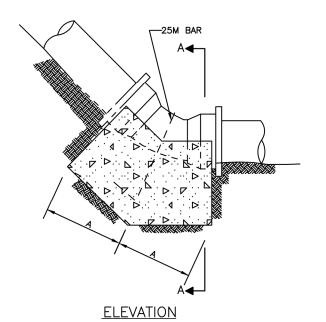


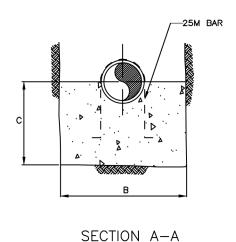
# TOWN OF STONY PLAIN

POURED CONCRETE THRUST BLOCKS FOR HORIZONTAL TEES AND BENDS

7-401

Date: APR, 2020 Rev. 2





PIPE		FITTINGS						
SIZE	11 1/4	· &: 22	2 1/2 *	BENDS		45° B	END	
	Α	В	С	BEARING AREA	Α	В	С	BEARING AREA
	(mm)	(mm)	(mm)	(m <sup>2</sup> )	(mm)	(mm)	(mm)	(m <sup>2</sup> )
150	106	450	375	0.095	207	450	375	0.187
200	169	500	400	0.169	332	500	400	0.332
250	240	550	425	0.264	471	550	425	0.518
300	317	600	450	0.380	662	600	450	0.746
400	483	700	500	0.676	948	700	500	1.327
450	571	750	525	0.856	1119	750	525	1.679
600	845	900	600	1.522	1658	900	600	2.985
750	1132	1050	675	2.378	2221	1050	675	4.664

### NOTES:

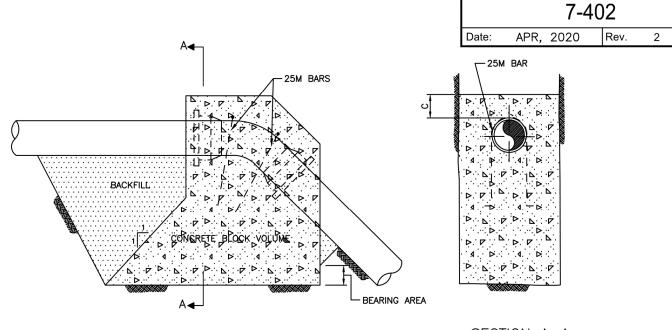
- (1) ALL DIMENSION ARE IN MILLIMETRES UNLESS OTHERWISE SPECIFIED.
- (2) DESIGN BASIS:
  - a.HYDRAULIC DESIGN PRESSURE 690kPa (100psi)
  - b.SOIL BEARING CAPACITY 50kPa (1044 lb/sq.ft)(SOFT CLAY)
- (3) CONCRETE THRUST BLOCK BEARING SURFACE AREA AND PARAMETER "A", "B", & "C" MUST BE ADJUSTED IF HYDRAULIC DESIGN PRESSURE AND SOIL BEARING CAPACITY ARE DIFFERENT THAN SHOWN IN ITEM 2, DESIGN BASIS.
- (4) HYDRAULIC DESIGN PRESSURE MUST INCLUDE HIGHEST OPERATING PRESSURE SCENARIO WITH SURGE PRESSURE INCLUDED.
- (5) TEMPORARY BLOCKING MUST BE APPROVED BY THE ENGINEER.
- (6) CONCRETE STRENGTH SHALL BE 30MPa AT 28 DAYS, SULPHATE RESISTANT.
- (7) CONCRETE TO BE CLEAR OF BELLS AND TO BEAR AGAINST UNDISTURBED TRENCH BOTTOM.
- (8) CONCRETE TO BE PLACED UNDER ALL FITTINGS.
- (9) CONCRETE TO BE CURED FOR 24 HOURS PRIOR TO BACKFILLING.
- (10) BOND BREAKER TO BE USED BETWEEN CONCRETE AND FITTINGS.
- (11) IF THE DESIGN IS BASED ON INFORMATION NOT VERIFIED IN THE FIELD AND NOT SUPPORTED BY HYDRAULIC MODELING / CALCULATIONS, A MIN. FACTOR OF SAFETY 1.50 SHOULD BE APPLIED TO ALL TABULATED BEARING AREAS.

Scale:	Not To Scale	d
Drawn By:	K.C.	Ť
Checked By:	K.M.	
Approved:	K.M.	
Date:	APRIL 2020	



TOWN OF STONY PLAIN

POURED CONCRETE THRUST BLOCKS FOR VERTICAL BENDS (DOWNWARD THRUST)



# **ELEVATION**

## SECTION A-A

PIPE			FITTINGS					
SIZE	11 1/4 *	& 22 1/2	• BENDS		45° BEND			
	BLOCK VOL.	С	BEARING AREA	BLOCK VOL.	С	BEARING AREA		
	(m <sup>3</sup> )	(mm)	(m²)	(m <sup>3</sup> )	(mm)	(m²)		
150	0.4	375	0.019	0.7	375	0.071		
200	0.7	400	0.033	1.3	400	0.127		
250	1.1	425	0.052	2.0	425	0.198		
300	1.6	450	0.074	2.9	450	0.286		
400	2.8	500	0.132	5.2	500	0.508		
450	3.6	525	0.167	6.6	525	0.643		
600	6.3	600	0.297	11.7	600	1.142		
750	9.9	675	0.464	18.3	675	1.785		

### NOTES:

- (1) ALL DIMENSION ARE IN MILLIMETRES UNLESS OTHERWISE SPECIFIED.
- (2) DESIGN BASIS:
  - a. HYDRAULIC DESIGN PRESSURE 690kPa (100psi)
  - b.SOIL BEARING CAPACITY 50kPa (1044 lb/sq.ft)(SOFT CLAY)
- (3) CONCRETE THRUST BLOCK BEARING SURFACE AREA MUST BE ADJUSTED IF HYDRAULIC DESIGN PRESSURE AND SOIL BEARING CAPACITY ARE DIFFERENT THAN SHOWN IN ITEM 2, DESIGN BASIS.
- (4) HYDRAULIC DESIGN PRESSURE MUST INCLUDE HIGHEST OPERATING PRESSURE SCENARIO WITH SURGE PRESSURE INCLUDED.
- (5) TEMPORARY BLOCKING MUST BE APPROVED BY THE ENGINEER.
- (6) CONCRETE STRENGTH SHALL BE 30MPa AT 28 DAYS, SULPHATE RESISTANT.
- (7) CONCRETE TO BE CLEAR OF BELLS AND TO BEAR AGAINST UNDISTRUBED TRENCH WALLS.
- (8) CONCRETE TO BE PLACES UNDER ALL FITTINGS.
- (9) CONCRETE TO BE CURED FOR 24 HOURS PRIOR TO BACKFILLING.
- (10) BOND BREAKER TO BE USED BETWEEN CONCRETE AND FITTINGS.
- (11) IF THE DESIGN IS BASED ON INFORMATION NOT VERIFIED IN THE FIELD AND NOT SUPPORTED BY HYDRAULIC MODELING / CALCULATIONS, A MIN. FACTOR OF SAFETY 1.50 SHOULD BE APPLIED TO ALL TABULATED BEARING AREAS.

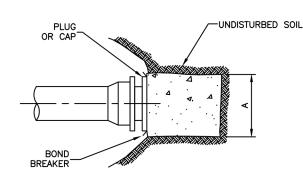
Scale:	Not To Scale	★ TOWN OF	-
Drawn By:	K.C.	<b>T</b> STONY	
Checked By:	K.M.	PIAIN	
Approved:	K.M.	ILIAIIV	
Date:	APRIL 2020		

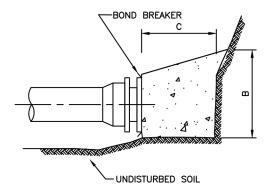
TOWN OF STONY PLAIN

POURED CONCRETE THRUST BLOCKS FOR VERTICAL BENDS (UPWARD THRUST)

Date: APR, 2020

Rev. 2





MINIMUM DIMENSIONS IN mm's						
SIZE OF PIPE	Α	В	С	BEARING AREA		
100	430	250	200	0.11		
150	700	350	200	0.24		
200	870	500	200	0.43		
250	1040	650	275	0.68		
300	1220	800	350	0.98		
400	1730	1000	400	1.73		
450	1910	1150	475	2.19		
600	2790	1400	500	3.90		
750	3480	1750	625	6.09		

### **NOTES:**

- (1) ALL DIMENSION ARE IN MILLIMETRES UNLESS OTHERWISE SPECIFIED.
- (2) DESIGN BASIS:
  - a.HYDRAULIC DESIGN PRESSURE 690kPa (100psi) b.SOIL BEARING CAPACITY 50kPa (1044 lb/sq.ft)(SOFT CLAY)
- (3) CONCRETE THRUST BLOCK BEARING SURFACE AREA AND PARAMETER "A", "B", & "C" MUST BE ADJUSTED IF HYDRAULIC DESIGN PRESSURE AND SOIL BEARING CAPACITY ARE DIFFERENT THAN SHOWN IN ITEM 2, DESIGN BASIS.
- (4) HYDRAULIC DESIGN PRESSURE MUST INCLUDE HIGHEST OPERATING PRESSURE SCENARIO WITH SURGE PRESSURE INCLUDED.
- (5) TEMPORARY BLOCKING MUST BE APPROVED BY THE ENGINEER.
- (6) CONCRETE STRENGHT SHALL BE 30MPa AT 28 DAYS, SULPHATE RESISTANT.
- (7) CONCRETE TO BE CLEAR OF BELLS AND TO BEAR AGAINST UNDISTRUBED TRENCH WALLS.
- (8) CONCRETE TO BE PLACED UNDER ALL FITTINGS.
- (9) CONCRETE TO BE CURED FOR 24 HOURS PRIOR TO BACKFILLING.
- (10) BOND BREAKER TO BE USED BETWEEN CONCRETE AND FITTINGS.
- (11) IF THE DESIGN IS BASED ON INFORMATION NOT VERIFIED IN THE FIELD AND NOT SUPPORTED BY HYDRAULIC MODELING / CALCULATIONS, A MIN. FACTOR OF SAFETY 1.50 SHOULD BE APPLIED TO ALL TABULATED BEARING AREAS.

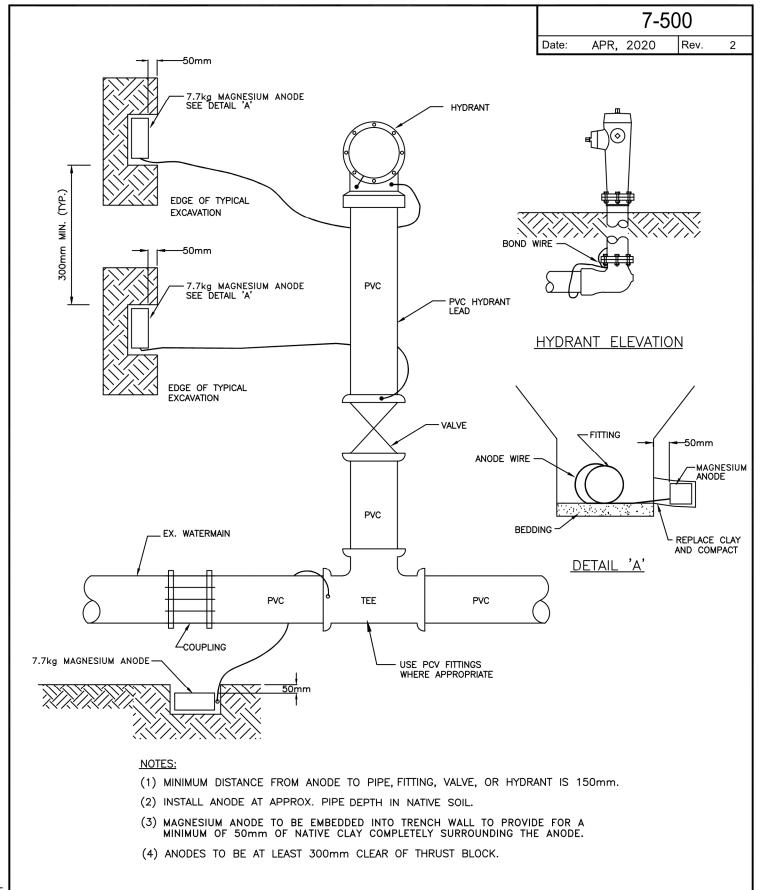
Scale:	Not To Scale
Drawn By:	K.C.
Checked By:	K.M.
Approved:	K.M.
Date:	APRIL 2020
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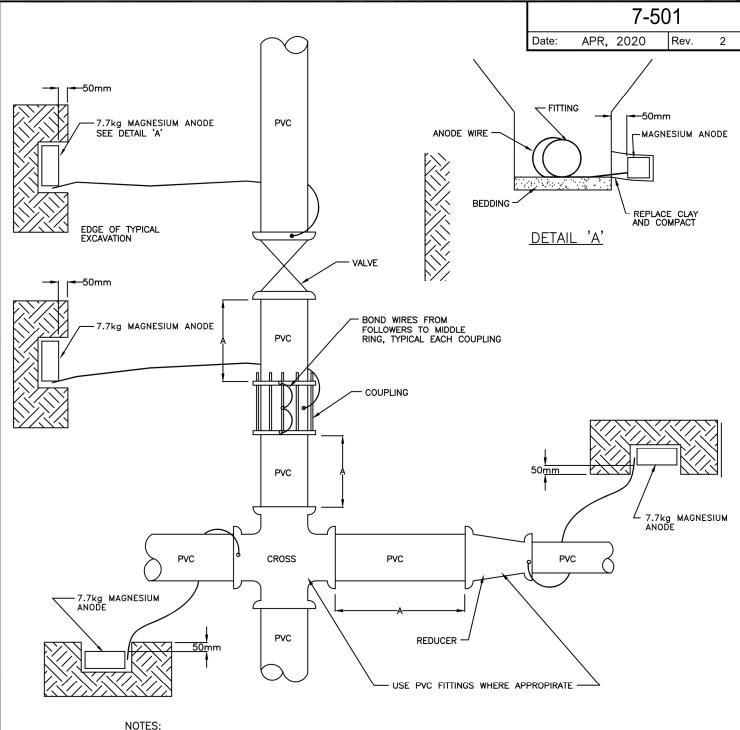
TOWN OF STONY PLAIN

POURED CONCRETE THRUST BLOCKS FOR DEAD-ENDS

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Scale:	Not To Scale	★ TOWN OF	TOWN OF STONY PLAIN	
Drawn By:	K.C.	<b>TSTONY</b>		
Checked By:	K.M.	PLAIN		
Approved:	K.M.	I LI XII V	ANODE INSTALLATION AT HYDRANT	
Date:	APRIL 2020			

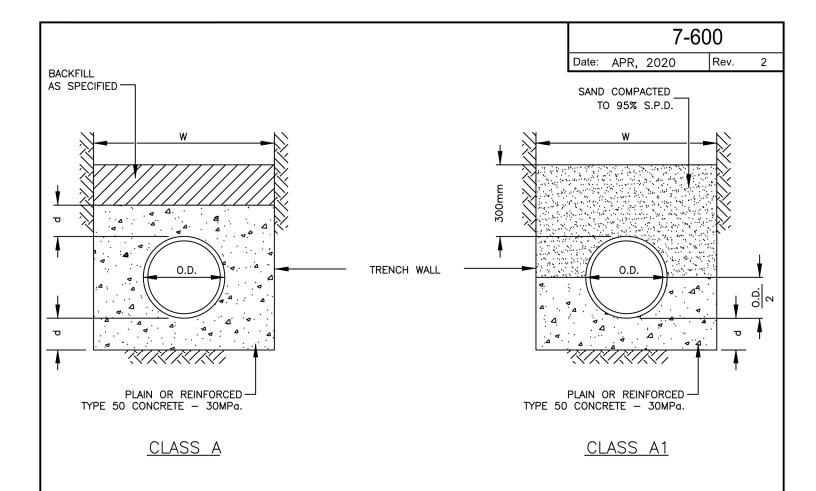


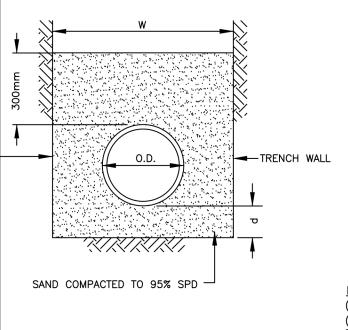
- (1) MINIMUM DISTANCE FROM ANODE TO PIPE, FITTING, VALVE OR HYDRANT IS 150mm.
- (2) INSTALL ANODE AT APPROXIMATE PIPE DEPTH IN NATIVE SOIL.
- (3) ALL MAGNESIUM ANODES ON FITTINGS AND VALVES ARE 5.5kg.
- (4) MAGNESIUM ANODE TO BE EMBEDDED INTO TRENCH WALL TO PROVIDE FOR A MINIMUM OF 50mm OF NATIVE CLAY COMPLETELY SURROUNDING THE ANODE.
- (5) ANODES TO BE AT LEAST 300mm CLEAR OF THRUST BLOCK.
- (6) ALL FITTINGS TO BE IRON OR PVC.

Scale:	Not To Scale	♦ TOWN OF
Drawn By:	K.C.	TSTONY
Checked By:	K.M.	PLAIN
Approved:	K.M.	ILAIN
Date:	APRIL 2020	

### STONY OF TOWN PLAIN

TYPICAL ANODE INSTALLATION FOR IRON FITTINGS USED WITH PVC WATERMAINS





PIPE SIZE	d MIN.(mm)
675mm OR SMALLER	75
750mm TO 1500mm	100
1650mm AND LARGER	150

### LEGEND:

d = DEPTH OF BEDDING MATERIAL BELOW PIPE

W = TRENCH WIDTH = 2x OD (MIN.).

O.D. = OUTSIDE DIAMETER OF PIPE

### NOTES:

(1) ADD 100mm TO d IN ROCK EXCAVATION.

(2) IN AREAS WITH HIGH WATER TABLE, CLASS B PIPE ZONE MATERIAL SHALL BE WASHED ROCK AS PER SECTION 5.18.4 AND SHALL BE WRAPPED IN NON—WOVEN GEOTEXTILE (NILEX 4551 OR APPROVED EQUAL)

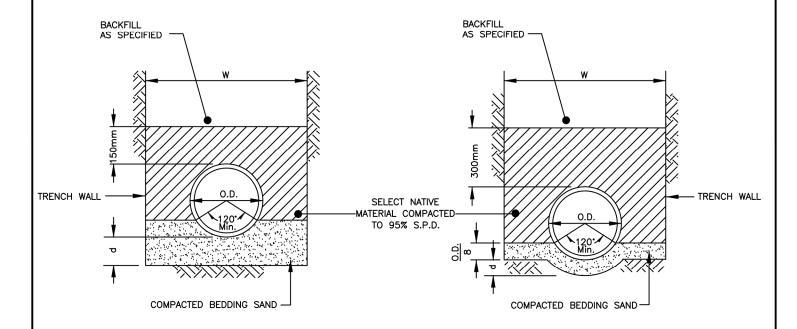
Scale:	Not To Scale	♦ TOWN OF
Drawn By:	K.C.	TSTON
Checked By:	K.M.	PI AIN
Approved:	K.M.	ILAIIV
Date:	APRIL 2020	

CLASS B

TOWN OF STONY PLAIN

PIPE ZONE BEDDING DETAILS (CLASS A, A1, B)

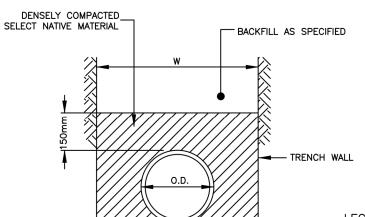
File: Q:\2019-3638-00\civil\Standard Details\Warkin\_Dwgs\WATER\3638-7-600.dwg Xrefs: TSP-G-TTBL\_8.5x11\_01



CLASS C

CLASS C-1

ALTERNATE- 375mm I.D. OR SMALLER



d MIN.(mm)
75
100
150

LEGEND:

d = DEPTH OF BEDDING MATERIAL BELOW PIPE

W = TRENCH WIDTH = 2xOD(MIN.).

O.D. = OUTSIDE DIAMETER OF PIPE

### NOTES:

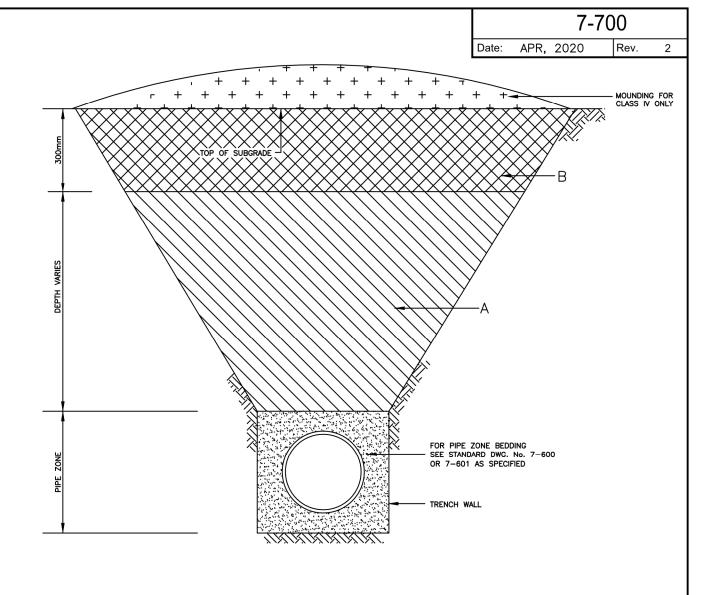
(1) ADD 100mm TO d IN ROCK EXCAVATION.

Scale:	Not To Scale	★ TOWN OF
Drawn By:	K.C.	TSTONY
Checked By:	K.M.	PLAIN
Approved:	K.M.	ILAIIN
Date:	APRIL 2020	

CLASS D

TOWN OF STONY PLAIN

PIPE ZONE BEDDING DETAILS (CLASS C, C1, D)

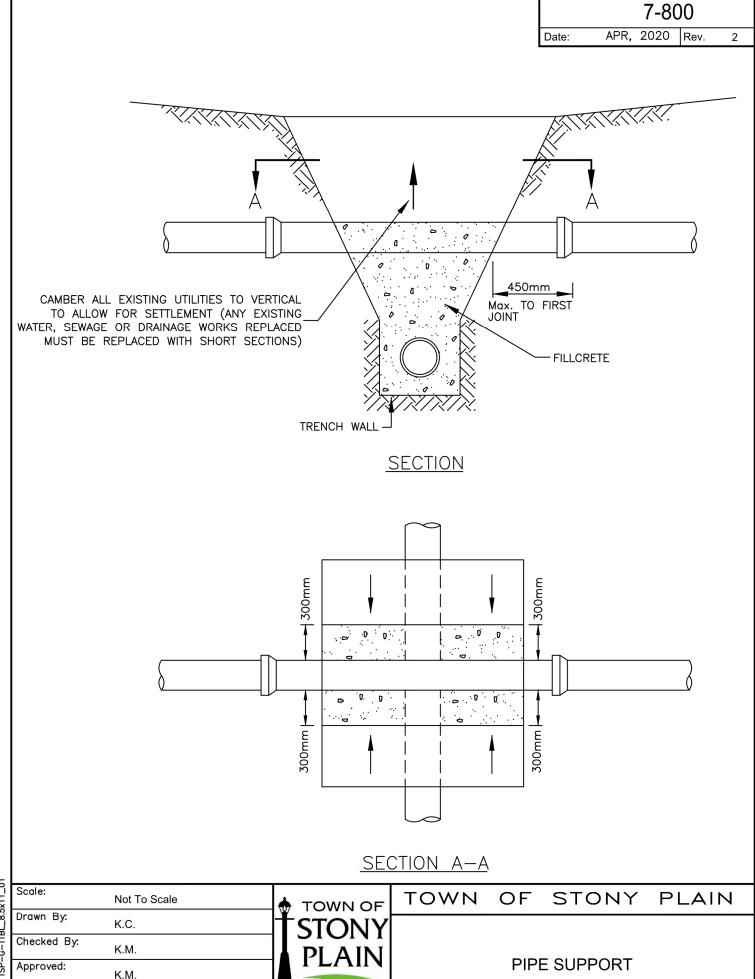


	CLASS USE	Α		В			
CLASS		MATERIAL	MAX LIFT	% SPD	MATERIAL	MAX LIFT	% SPD
1	UNDER ROADS	IMPORTED GRANULAR	200	97	IMPORTED GRANULAR	150	100
ll II	UNDER ROADS	NATIVE	200	97	NATIVE	150	100
III	LANDSCAPED AREAS	NATIVE	200	95	NATIVE	200	95
IV	OPEN FIELD	NATIVE	300	95	NATIVE	300	95

### NOTES:

- (1) ALL TRENCH WALLS SHALL BE SLOPED OR SHORED IN CONFORMANCE WITH THE OCCUPATIONAL HEALTH AND SAFETY REGULATIONS CURRENTLY IN EFFECT, OR AS PER GEOTECHNICAL RECOMMENDATIONS, WHICHEVER IS MORE STRINGENT.
- (2) SUBGRADE TO BE SPECIFIED WITH COMPLETE ROADWAY STRUCTURE DESIGN.
- (3) SURFACE DRAINAGE TO BE RECTIFIED FOR IMMEDIATE AREA IF CLASS IV BACKFILL IS USED.
- (4) FILLCRETE MAY BE REQUIRED AS BACKFILL FOR EXISTING ROADWAYS, AT THE DISCRETION OF THE TOWN

Scale:	Not To Scale		♦ TOWN OF	TOWN	OF	STONY	PLAIN
Drawn By:	K.C.	,	TSTONY				
Checked By:	K.M.		PLAIN	Т	RENC	H BACKFILL F	OR
Approved:	K.M.		ILAIIV	ı	NEW C	ONSTRUCTIO	N
Date:	APRIL 2020						

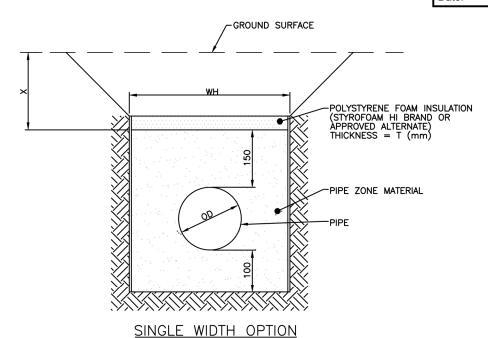


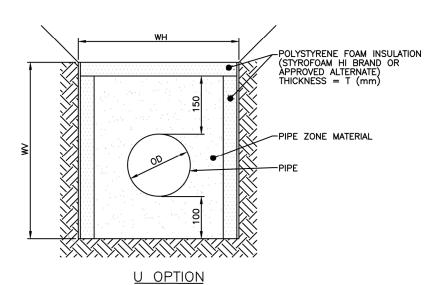
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Date:

**APRIL 2020** 

**7-900**Date: APR, 2020 Rev. 2





х	Т	WIDTH OF INSULATION (W) FOR OUTSIDE PIPE DIAMETERS			
(m)	(mm)	0.15	0.20	0.25	0.30
1.6	65	3.0	3.1	3.3	3.4
1.8	50	2.6	2.7	3.9	3.0
2.0	50	2.2	2.3	2.5	2.6
2.2	40	1.8	1.9	2.3	2.4
2.4	25	1.4	1.5	1.9	2.0
2.6	25	1.0	1.1	1.5	1.6
2.8	25	0.6	0.7	1.1	1.2

### NOTES:

X = DEPTH FROM GROUND SURFACE TO BOTTOM OF INSULATION (METRES)

W = WIDTH OF INSULATION (METRES) = WH + 2(WV)

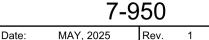
 $\mathsf{OD} = \mathsf{OUTSIDE} \ \mathsf{DIAMETER} \ \mathsf{OF} \ \mathsf{PIPE}$ 

Scale:	Not To Scale
Drawn By:	K.C.
Checked By:	K.M.
Approved:	K.M.
Date:	APRIL 2020

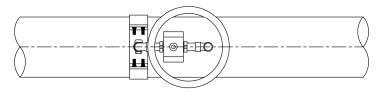


TOWN OF STONY PLAIN

PIPE INSULATION



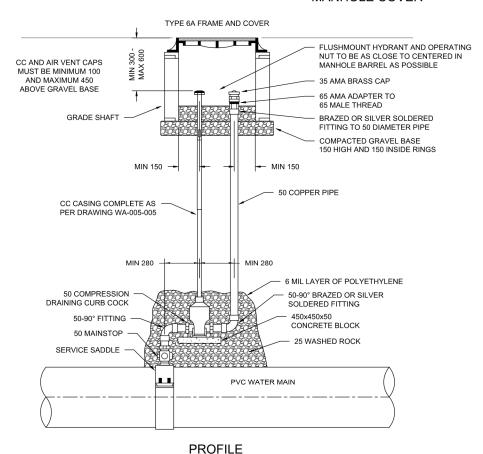
Date:



**PLAN** 



### MANHOLE COVER



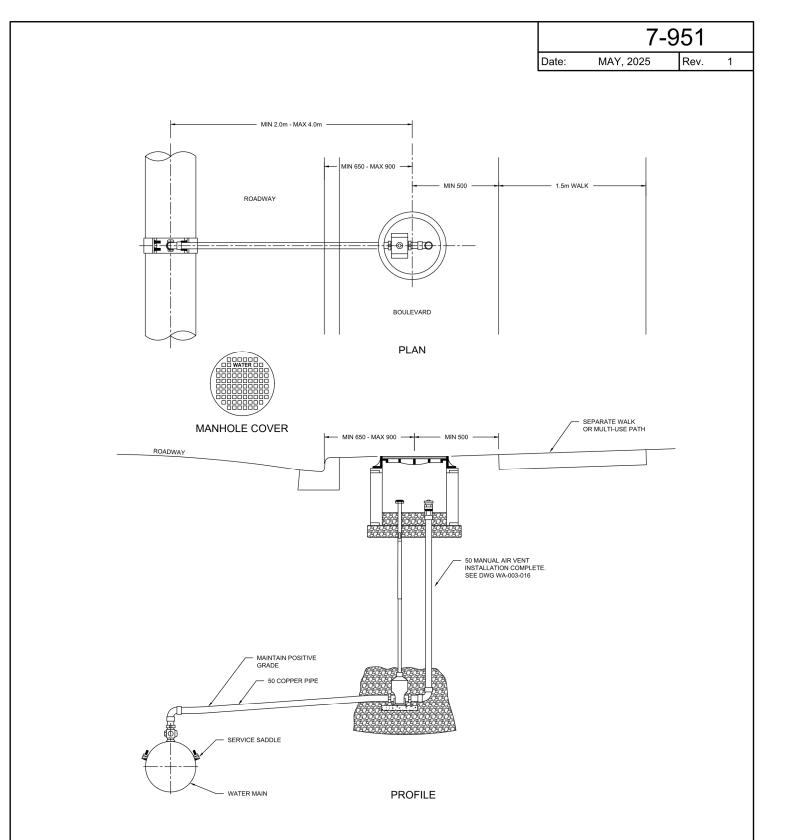
- ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE SPECIFIED.
  COMPACT GRAVEL BASE TO A MINIMUM OF 100% OF THE MAXIMUM DENSITY IN THE ROADWAY, AND 95% IN THE BOULEVARD.
- BRAZED AND SILVER SOLDERED FITTING MAY BE REPLACED WITH TOWN APPROVED ALTERNATIVE.
- MAV TO BE LOCATED ON BOULEVARD UNLESS OTHERWISE APPROVED BY THE **ENGINEER**
- IF COVER ON COPPER PIPE IS 2.5m OR LESS, INSTALL INSULATION

Scale:	Not To Scale	
Drawn By:	JR	
Checked By:	JN	
Approved:	JN	
Date:	MAY 2025	



TOWN OF STONY PLAIN

MANUAL AIR VENT IN ROADWAY



- NOTES:

  1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE SPECIFIED.

  2. COMPACT GRAVEL BASE TO A MINIMUM OF 100% OF THE MAXIMUM DENSITY IN THE ROADWAY, AND 95% IN THE BOULEVARD.

  3. FRAME AND COVER CANNOT FALL WITHIN WALK.

  4. IF COVER ON COPPER PIPE IS 2.0m OR LESS, INSTALL INSULATION.

Scale:	Not To Scale	
Drawn By:	JR	-
Checked By:	JN	
Approved:	JN	
Date:	MAY 2025	

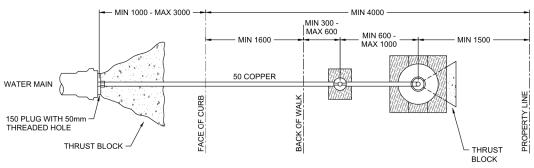


### TOWN OF STONY PLAIN

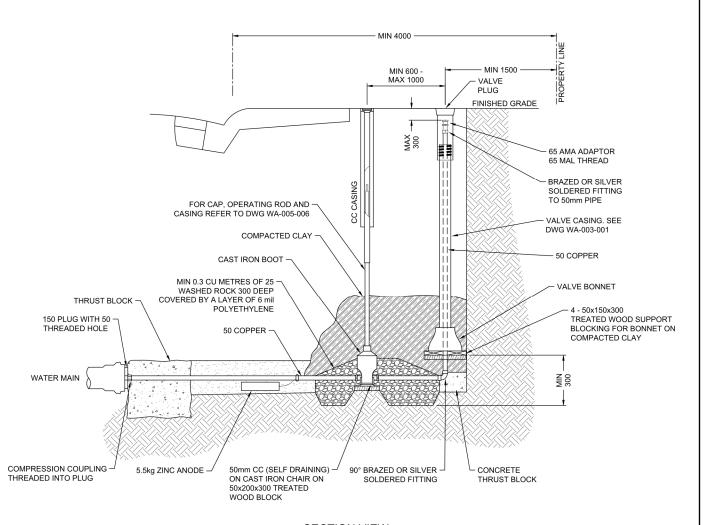
MANUAL AIR VENT IN BOULEVARD WITH SIDEWALK

7-960 Rev. 1

MAY, 2025 Date:



### **PLAN VIEW**



# **SECTION VIEW**

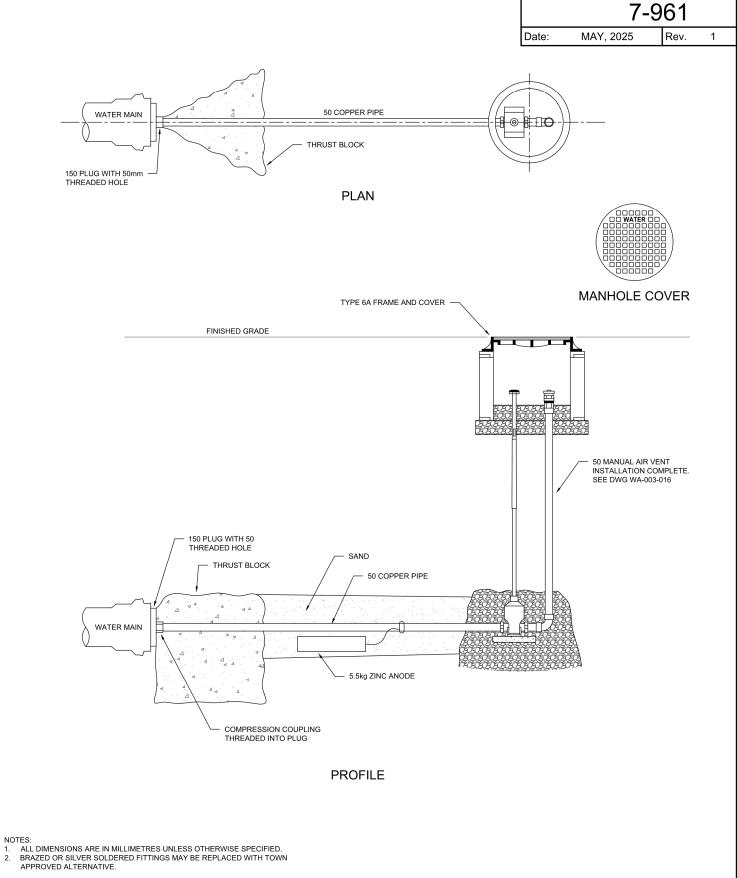
- ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE SPECIFIED. BRAZED OR SILVER SOLDERED FITTINGS MAY BE REPLACED WITH TOWN APPROVED ALTERNATIVE.
- ADJUST BOULEVARD DIMENSIONS BASED ON THE WALK SIZE

Scale:	Not To Scale	
Drawn By:	JR	_
Checked By:	JN	
Approved:	JN	
Date:	MAY 2025	



STONY TOWN OF PLAIN

TYPICAL FLUSH POINT DETAIL



Scale:	Not To Scale	
Drawn By:	JR	_
Checked By:	JN	
Approved:	JN	
Date:	MAY 2025	

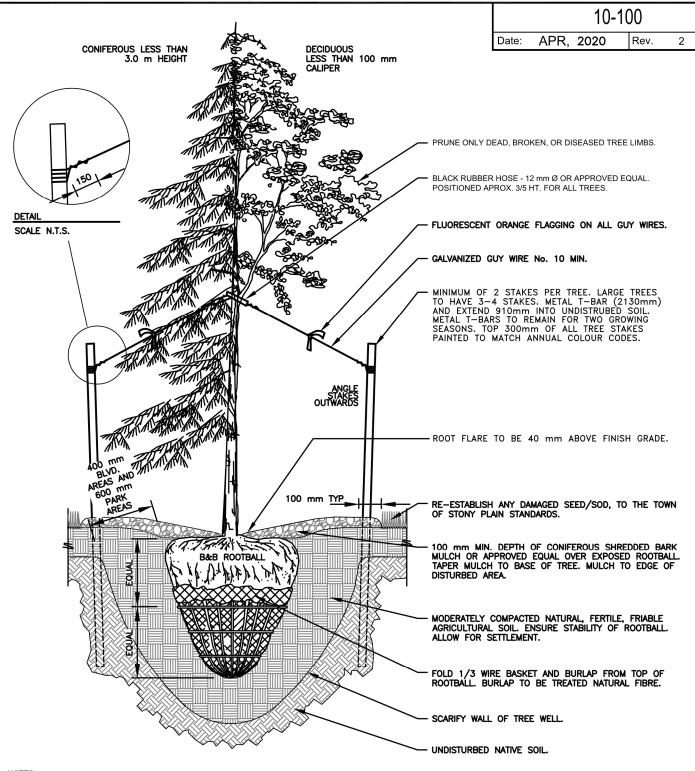


### TOWN STONY PLAIN OF

FLUSH POINT IN ROADWAY (SHALLOW CHAMBER)

# Landscaping





### NOTES

- SPECIFICATIONS: ALL COMPONENTS AND WORKMANSHIP TO CONFORM TO THE TOWN OF STONY PLAIN DESIGN STANDARDS POSITION TREE STAKES INTO DIRECTION OF PREVAILING WINDS OF MINIMUM UTILITY SETBACKS PERMIT ALL TREE STAKES TO HAVE A MINIMUM 1.0 m CLEARANCE FROM ALL U/G POWER, TELEPHONE AND GAS ALIGNMENTS ALL DIMENSIONS ARE IN MILLIMETERS

Scale:	Not To Scale	→ TOWN OF	TOWN OF STONY PLAIN
Ö Drawn By:	T.B.	TSTONY	
Checked By:	J.B.	- PLAIN	TYPICAL TREE PLANTING
Approved:	J.B.	ILAIN	TIFICAL TREE FLANTING
Date:	APRIL, 2020		

፩

10-101 Date: APR, 2020 Rev. 2 TYPICAL EDGING DETAIL SCALE N.T.S PLANTING BED WIDTH VARIES MIN. 450 mm BACK O CONIFEROUS OR DECIDUOUS CONCRETE CURB DETAIL SCALE N.T.S. PRUNE ONLY DEAD, BROKEN, OR DISEASED SHRUB BRANCHES (DECIDUOUS ONLY). SHRUB LAYOUT AS PER PLANTING PLAN. 100 mm MIN. DEPTH CONIFEROUS SHREDDED BARK MULCH OR APPROVED EQUAL. TAPER MULCH TO BASE OF SHRUB. RE-ESTABLISH ANY DAMAGED SEED/SOD, TO THE TOWN OF STONY PLAIN STANDARDS. Ŋĵ. ROOT 450 mm MIN. DEPTH MODERATELY COMPACTED NATURAL, FERTILE, FRIABLE AGRICULTURAL SOIL SOIL MIX: 3 PARTS FERTILE SOIL; 1 PART HORTICULTURAL PEAT MOSS; 1 PART SHARP SAND. ENSURE STABILITY OF ROOTBALL.

- SPECIFICATIONS: ALL COMPONENTS AND WORKMANSHIP CONFORM TO THE TOWN OF STONY PLAIN DESIGN STANDARDS CONTRACTOR TO ALLOW FOR 20% SETTLEMENT WHEN PLACING SHRUB.

  CONTAINER IS TO BE REMOVED CAREFULLY FROM ROOT SYSTEM SO AS NOT TO DISTURB THE PLANT. SHRUB SHALL NOT BE PULLED FROM
- CONTAINER.

- UNDISTURBED NATIVE SOIL

- PLANTING BED EDGERS ARE NOT REQUIRED, BUT MAY BE INCLUDED IF FLUSH TO THE GROUND.

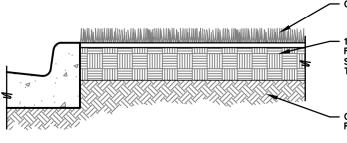
  APPROVED SHRUB BED EDGERS AS PER ENLARGEMENTS.

  ALL SHRUB BED HOLES TO BE DUG BY HAND WHEN CLOSER THAN 1.0m TO U/G POWER, TELEPHONE AND GAS ALIGNMENTS.

  ALL DIMENSIONS ARE IN MILLIMETERS

	cale:	Not To Scale	♦ TOWN OF	TOWN OF STONY PLAIN
الْمُ الْمُ	rawn By:	T.B.	TSTONY	
CI	hecked By:	J.B.	PLAIN	TYPICAL SHRUB PLANTING
- A	pproved:	J.B.	ILAIN	TIFICAL SHRUB FLANTING
i D	ate:	APRIL, 2020		

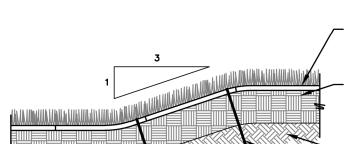
10-102 APR, 2020 Rev. Date: 2



CANADA NO. 1 SOD TO BE FLUSH WITH ADJACENT SURFACE.

100mm DEPTH MIN. ROLLED AND COMPACTED NATURAL, FERTILE, FRIABLE AGRICULTURAL SOIL. ALLOW FOR SETTLEMENT. ROOT ENHANCING FERTILIZER (11-51-0) TO BE SPREAD ON TOPSOIL PRIOR TO SODDING.

COMPACTED CLAY SUBGRADE GRUBBED FREE OF STUMPS, ROOTS, LARGE ROCKS AND DEBRIS.



SOD TO BE LAID LENGTHWISE ACROSS FACE OF SLOPE. MAX. SLOPE SODDED 3:1. ROOT ENHANCING FERTILIZER (11-51-0) TO BE SPREAD ON TOPSOIL PRIOR TO SODDING.

100mm DEPTH ROLLED AND COMPACTED NATURAL, FERTILE, FRIABLE AGRICULTURAL SOIL. ALLOW FOR SETTLEMENT.

COMPACTED CLAY SUBGRADE GRUBBED FREE OF STUMPS, ROOTS, LARGE ROCKS AND DEBRIS.

ALL UPHILL ENDS OF SOD TO BE PEGGED WITH TWO 25 mm x 25 mm x 230 mm WOODEN PEGS, DRIVEN IN BELOW LAWN LEVEL. REMOVE PEGS PRIOR TO FAC.



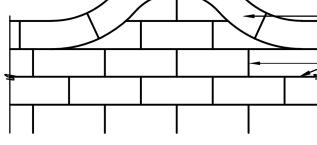
CROSS SECTION THROUGH SLOPE

CROSS SECTION

LIMIT OF SOD OR ADJACENT TO HARD SURFACE.

FULL ROW OF SOD TO BE USED ALONG PERIMETER OF SODDED AREA.

SOD TO BE LAID CLOSELY PACKED TOGETHER. JOINTS IN ADJACENT ROWS SHALL BE STAGGERED. TOPDRESS WITH NATURAL, FERTILE, FRIABLE AGRICULTURAL SOIL TO FILL ALL JOINTS.



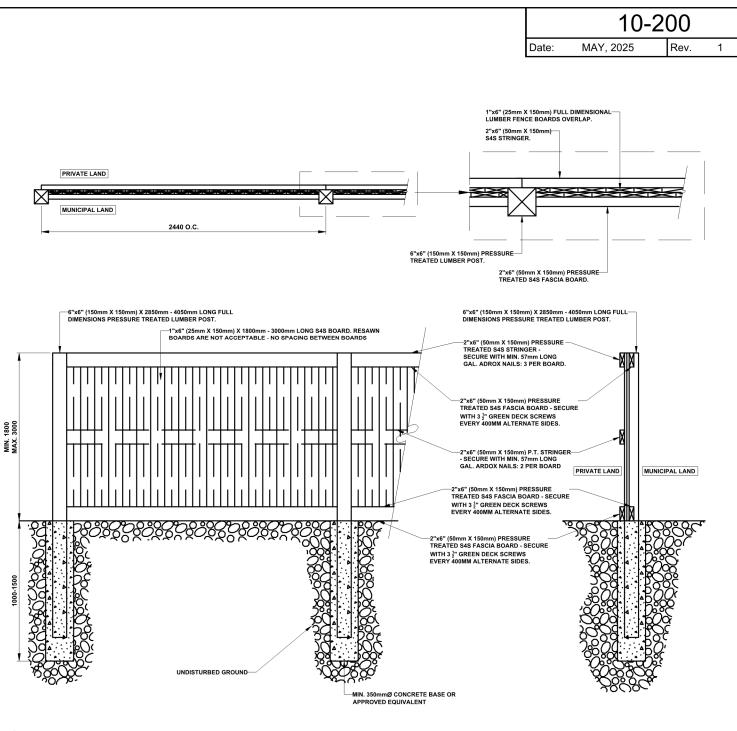
- SPECIFICATIONS: ALL COMPONENTS AND WORKMANSHIP TO CONFORM TO THE TOWN OF STONY PLAIN DESIGN STANDARDS.
  LIMIT OF SOD AS SHOWN ON LANDSCAPE DRAWINGS. ANY REPAIRS REQUIRED BEYOND THE LIMIT ARE THE SOLE RESPONSIBILITY OF THE
  LANDSCAPE CONTRACTOR.
  ALL DIMENSIONS ARE IN MILLIMETERS.

 		1	/				7		Full Ro Sodded
*									SOD TO ADJACEN NATURAL ALL JOII
PLAN VIEW  NOTES:  SPECIFICATIONS: ALL COMPONENTS AND WORKMANSHIP TO CONFORM TO THE TOWN LIMIT OF SOD AS SHOWN ON LANDSCAPE DRAWINGS. ANY REPAIRS REQUIRED BEY LANDSCAPE CONTRACTOR.  ALL DIMENSIONS ARE IN MILLIMETERS.									
Scale: Not To Scale						<b>♦</b> TOWN OF			TOV
7 T.B.					ŤS	TO	NY		
J.B.									
Approved: J.B.								711 4	
Date: APRIL, 2020									
	Scale: Drawn By: Checked B Approved:	NOTES:  SPECIFICATI LIMIT OF S LANDSCAPE ALL DIMENS  Scale:  Note that the control of the contro	NOTES:  SPECIFICATIONS: ALL LIMIT OF SOD AS S LANDSCAPE CONTRA ALL DIMENSIONS AF  Scale: Not To So Drawn By: T.B. Checked By: J.B. Approved: J.B. Date:	NOTES:  SPECIFICATIONS: ALL COMPORT OF SOD AS SHOWN OF LANDSCAPE CONTRACTOR.  ALL DIMENSIONS ARE IN MI  Scale:  Not To Scale  Drawn By:  T.B.  Checked By:  J.B.  Approved:  J.B.  Date:	NOTES:  SPECIFICATIONS: ALL COMPONENTS LIMIT OF SOD AS SHOWN ON LAND LANDSCAPE CONTRACTOR. ALL DIMENSIONS ARE IN MILLIMETER  Scale: Not To Scale  Drawn By: T.B.  Checked By: J.B.  Approved: J.B.  Date:	NOTES:  SPECIFICATIONS: ALL COMPONENTS AND WOI LIMIT OF SOD AS SHOWN ON LANDSCAPE D LANDSCAPE CONTRACTOR. ALL DIMENSIONS ARE IN MILLIMETERS.  Scale: Not To Scale  Drawn By: T.B.  Checked By: J.B.  Approved: J.B.  Date:	NOTES:  • SPECIFICATIONS: ALL COMPONENTS AND WORKMANSI • LIMIT OF SOD AS SHOWN ON LANDSCAPE DRAWINGS LANDSCAPE CONTRACTOR. • ALL DIMENSIONS ARE IN MILLIMETERS.  Scale:  Not To Scale  Drawn By:  T.B.  Checked By:  J.B.  Approved:  J.B.  Date:	NOTES:  SPECIFICATIONS: ALL COMPONENTS AND WORKMANSHIP TO COMPONEN	NOTES:  • SPECIFICATIONS: ALL COMPONENTS AND WORKMANSHIP TO CONFORM • LIMIT OF SOD AS SHOWN ON LANDSCAPE DRAWINGS. ANY REPAIRS RELANDSCAPE CONTRACTOR. • ALL DIMENSIONS ARE IN MILLIMETERS.  Scale:  Not To Scale  Drawn By:  T.B.  Checked By:  J.B.  Approved:  J.B.  Date:

NN OF STONY PLAIN

SOD INSTALLATION



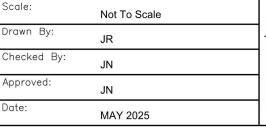


### NOTE:

- POST BASES ADJACENT TO ANY UNDERGROUND UTILITY MUST BE SET BACK TO PROVIDE A MINIMUM 1.0m HORIZONTAL SEPARATION. DECORATIVE COLUMNS MUST BE INSTALLED OUTSIDE OF UTILITY EASEMENTS. ALL OTHER FENCING INSTALLED WITHIN AN EASEMENT WILL BE AT THE DISCRETION OF THE TOWN

- THE TOWN.
  POST HOLES TO BE EXCAVATED TO REACH A DEPTH OF UNDISTURBED SUBGRADE MINIMUM 1000mm ALL WOOD TO BE PRESSURE TREATED, OR CEDAR, FOR MUNICIPALLY OWNED FENCES. ONLY POSTS AND STRINGER TO BE PRESSURE TREATED OR CEDAR FOR PRIVATE FENCES.
  STAIN SPECIFICATIONS TO BE DETERMINED BY THE LANDSCAPE ARCHITECT. PRE-STAIN TWO COATS PRIOR TO INSTALLATION. TOUCH UP AFTER CONSTRUCTION IF NEEDED.
  WHERE THE NOISE ATTENUATING FENCE IS PLACE ALONG THE BACK OF A SPLIT DRAINING LOT, A SUITABLE GAP BETWEEN THE FINAL GRADE AND THE BOTTOM OF THE FENCE ON BOTH THE PRIVATE AND THE MUNICIPAL SIDE TO BE PROVIDED AS DIRECTED BY THE TOWN.
  TOP OF POST TO BE CUT AT AN ANGLE TO DRAIN TOWARDS PRIVATE PROPERTY.
  3.0m FENCES ARE REQUIRED TO HAVE 4 STRINGERS.

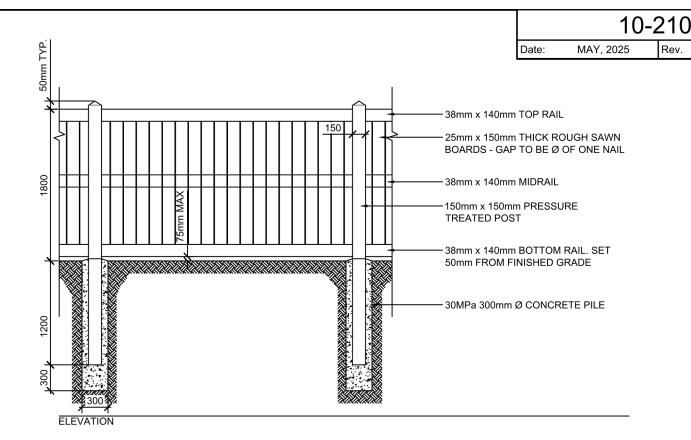
**ALL DIMENSIONS** IN MILLIMETRES UNLESS OTHERWISE NOTED

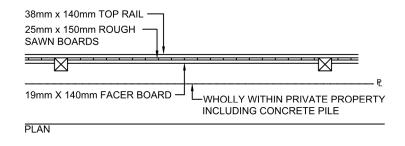




TOWN STONY PLAIN OF

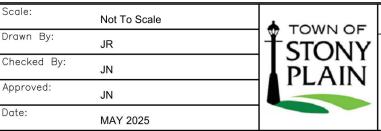
WOOD NOISE ATTENUATION FENCE

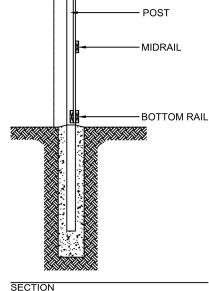






- FENCES INCLUDING THE CONCRETE PILE MUST BE CONSTRUCTED WHOLLY WITHIN PRIVATE PROPERTY.
- FENCES ON PRIVATE PROPERTY SHALL REQUIRE A MINIMUM OF PRESSURE TREATED POSTS AND BOTTOM RAILS. FENCES ON TOWN PROPERTY SHALL REQUIRE ALL WOOD MEMBERS TO BE PRESSURE TREATED OR APPROVED EQUAL. ALL WOOD MEMBERS ABOVE GROUND TO BE NON-INCISED.
- ALL NAILS TO BE 60mm SPIRAL GALVANIZED. USE AS REQUIRED TO ENSURE SECURE ASSEMBLY.
- WOOD USED MAY BE LODGEPOLE PINE, FIR, HEMLOCK OR SPRUCE, DEPENDANT ON AVAILABILITY AT TIME OF CONSTRUCTION.
- ALL STAIN TO BE AS PER LANDSCAPE ARCHITECT. APPLY 2 COATS AS PER MANUFACTURERS SPECIFICATIONS. COLOUR TO BE DETERMINED BY LANDSCAPE ARCHITECT. STAIN BOARDS ALL FOUR SIDES PRIOR TO CONSTRUCTION.
- PRESSURE TREATED POSTS TO BE TREATED WITH A SOLUTION OF PENTACHLOROPHENOL AND PETROLEUM TO CSA-080.
- PROPERTY LINE OFFSET DIRECTION VARIES. REFER TO PLAN.
- ALL DIMENSIONS IN MILLIMETERS.





TOP RAIL

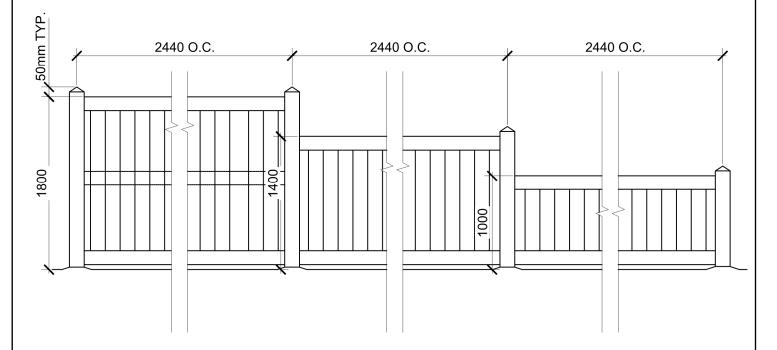
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SECTION

TOWN OF STONY PLAIN

1800mm HEIGHT WOOD SCREEN FENCE

10-220
Date: MAY, 2025 Rev. 1



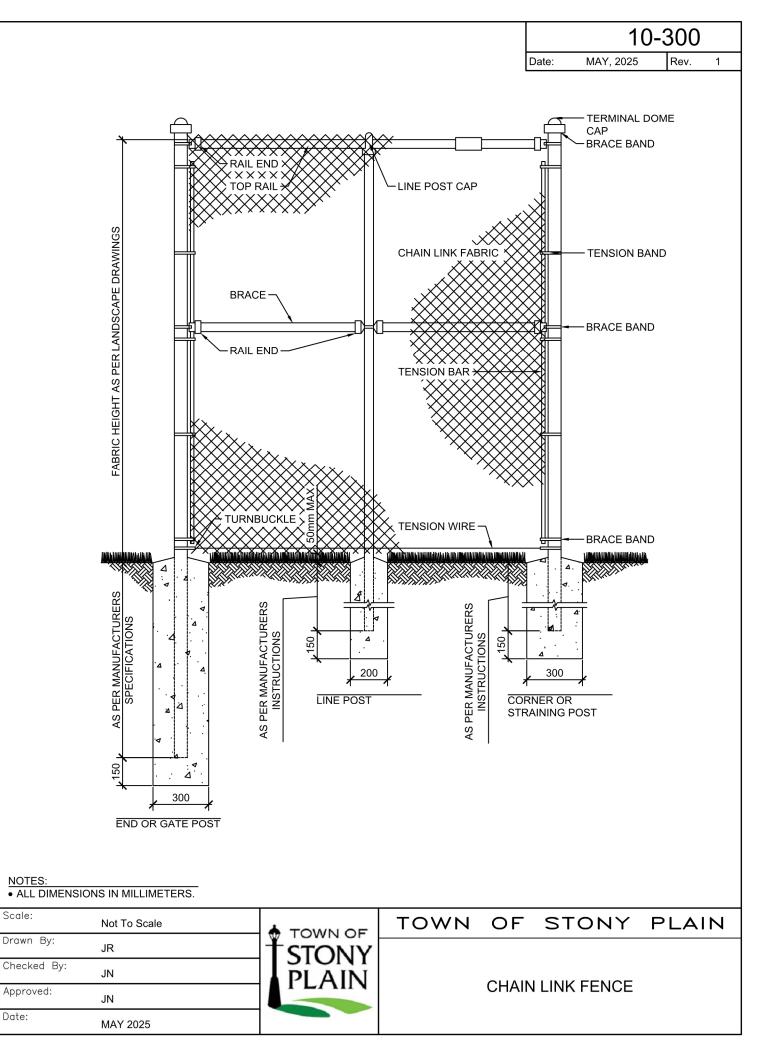
# NOTES: REFER TO CONSTRUCTION DETAIL < NEW WOOD FENCE DETAIL > FOR ALL METHODS AND MATERIALS REGARDING CONSTRUCTION OF WOOD SCREEN FENCING.

Scale:	Not To Scale	
Drawn By:	JR	
Checked By:	JN	
Approved:	JN	
Date:	MAY 2025	



TOWN OF STONY PLAIN

WOOD SCREEN FENCE STEPDOWN



Scale:

Date: