STANDARD FRAME & COVER
Use Norwood N.F.80 or Trojan T.F.80 on all manholes in roadways or walks
(SEE DRAWING SY-05)

SAFETY TYPE M.H. RUNG
ALUMINUM SPACING TO BE
400mm CENTRE TO CENTRE

GRADE RINGS
AS REQUIRED
GRADE RINGS SHALL
ALIGN WITH BARREL
(no stepping or
staggering)

ECCENTRIC
CONICAL TOP

MAN-HOLE FRAME
AND COVER

PRECAST REINFORCED
CONCRETE BARREL

ALL JOINTS MORTARED
INSIDE AND OUT
RUBBER GASKET JOINT

RUNGS

PRECAST OR CAST IN
PLACE BASE AND BENCHING
TO AT LEAST MID HT.
OF PIPE AND TO SLOPE
TOWARD MH WALL FROM
EDGE OF PIPE AT 1:10

USE DURASEAL FOR
WATERTIGHT COUPLING
BETWEEN MH AND PVC PIPE

COMPACTED GRANULAR FILL

UNDISTURBED SOIL
OR MECHANICALLY OR
HAND TAMPED

NOTES:
1. MAN-HOLES OF DEPTH GREATER THAN 7m REQUIRE AN ALUMINUM SAFETY PLATFORM.
2. ALL SEWER MAINS TYING INTO TRUNK MANHOLES MUST BE EXTENDED PAST
CONCRETE SLAB SO THAT IT IS BOTH VISIBLE AND ACCESSIBLE FROM THE SURFACE.

THE CITY OF
SPRUCE GROVE

PLANNING AND INFRASTRUCTURE

STANDARD SANITARY MANHOLE

DRAWN: T. CRAWFORD  DATE: MARCH 6, 2006
CHECKED: J. MUSTARD  SCALE: NOT TO SCALE
APPROVED: J. MUSTARD  DRAWING No.: SY-01
THE CITY OF SPRUCE GROVE

PLANNING AND INFRASTRUCTURE

INTERIOR DROP MANHOLE

USE PRECAST OR Poured IN PLACE BASE BENCHING TO AT LEAST MID-HEIGHT OF PIPE AND SLOPED UPWARD TO MANHOLE WALL AT 1:10

R = 450 MIN.
MIN. 50 DROP

1200mm Ø PRECAST MANHOLE BARREL

ALL JOINTS SHALL BE MORTARED INSIDE AND OUT AND SHALL BE WATERTIGHT

USE 3/8" Ø ALUMINUM PIPE STRAP SECURELY FASTENED TO MH BARREL. PIPE STRAPS TO BE INSTALLED BELOW BELL OF EACH SECTION OF DROP PIPE.

USE COMPACTED GRAVEL IN DISTURBED ZONE

PIPE STRAPS

INLET SEWER PVC

USE 45° BEND WITH BELL REMOVED AS SHOWN AND ROTATED IN DIRECTION FLOW OF MAIN SEWER

PROVIDE CONCRETE SUPPORT FOR 45° BEND AND BENCH TO MID-HEIGHT FORMING SMOOTH FLOW CHANNEL INTO MAIN SEWER

THE CITY OF SPRUCE GROVE

PLANNING AND INFRASTRUCTURE

INTERIOR DROP MANHOLE

DRAWN: T. CRAWFORD DATE: MARCH 6, 2006
CHECKED: J. MUSTARD SCALE: NOT TO SCALE
APPROVED: J. MUSTARD DRAWING No.: SY-02
NOTES:

1. SECURE DROP PIPE TO MANHOLE WITH RELINER-DURAN INC. STAINLESS STEEL ADJUSTABLE CLAMPING BRACKETS.

2. FOR MORE INFORMATION ON DROP BOWL TYPES, SIZES AND BRACKETS, GO TO WWW.RELINER.COM
SAND BACKFILL TO BE COMPACTED TO 95% PROCTOR

STEEL HOOP UNDER EACH BELL DRIVEN 300 INTO SOIL

BACKFILL AS SPECIFIED

45° ELBOW

PLUG

LOOSELY FILLED SANDBAGS PACKED TIGHTLY UNDER PIPE AND WYE FITTING.

SANITARY SEWER MAIN

THE CITY OF SPRUCE GROVE

PLANNING AND INFRASTRUCTURE

REVISIONS

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SANITARY RISER

DRAWN: T. CRAWFORD  DATE: MARCH 6, 2006
CHECKED: J. MUSTARD  SCALE: NOT TO SCALE
APPROVED: J. MUSTARD  DRAWING NO.: SY-04
NOTES:

1. NORWOOD FOUNDRY TYPE NF80 OR TROJAN FOUNDRY TYPE TF80
2. GROUT TO BE INSTALLED BETWEEN FLANGE AND MANHOLE BARREL ON RAISED MANHOLES.
3. SINGLE HOLE IN MANHOLE COVER SHALL BE PLUGGED IN ALL LOW AREAS OR POTENTIAL PONDING AREAS.