

NOTES

- ALL MEASUREMENTS SHOWN ARE IN METRIC AND APPROXIMATE
- ALL EXISTING UTILITIES ARE TO BE LOCATED IN THE FIELD PRIOR TO DIGGING
- MINIMUM SLOPE ON BOULEVARD 2%
- MINIMUM DEPTH OF UTILITIES:
BOULEVARD 0.70 m
PAVEMENT 0.90 m

NOTE

- THE LOCATION AND NUMBER OF SIDEWALKS TO BE DETERMINED IN CONSULTATION WITH THE CITY



CITY OF STRATFORD STANDARD DRAWING

**TYPICAL
20.00 m RIGHT OF WAY
8.50 m PAVEMENT WIDTH**

Drawn By: D.E.S.

Date: SEPT. /22

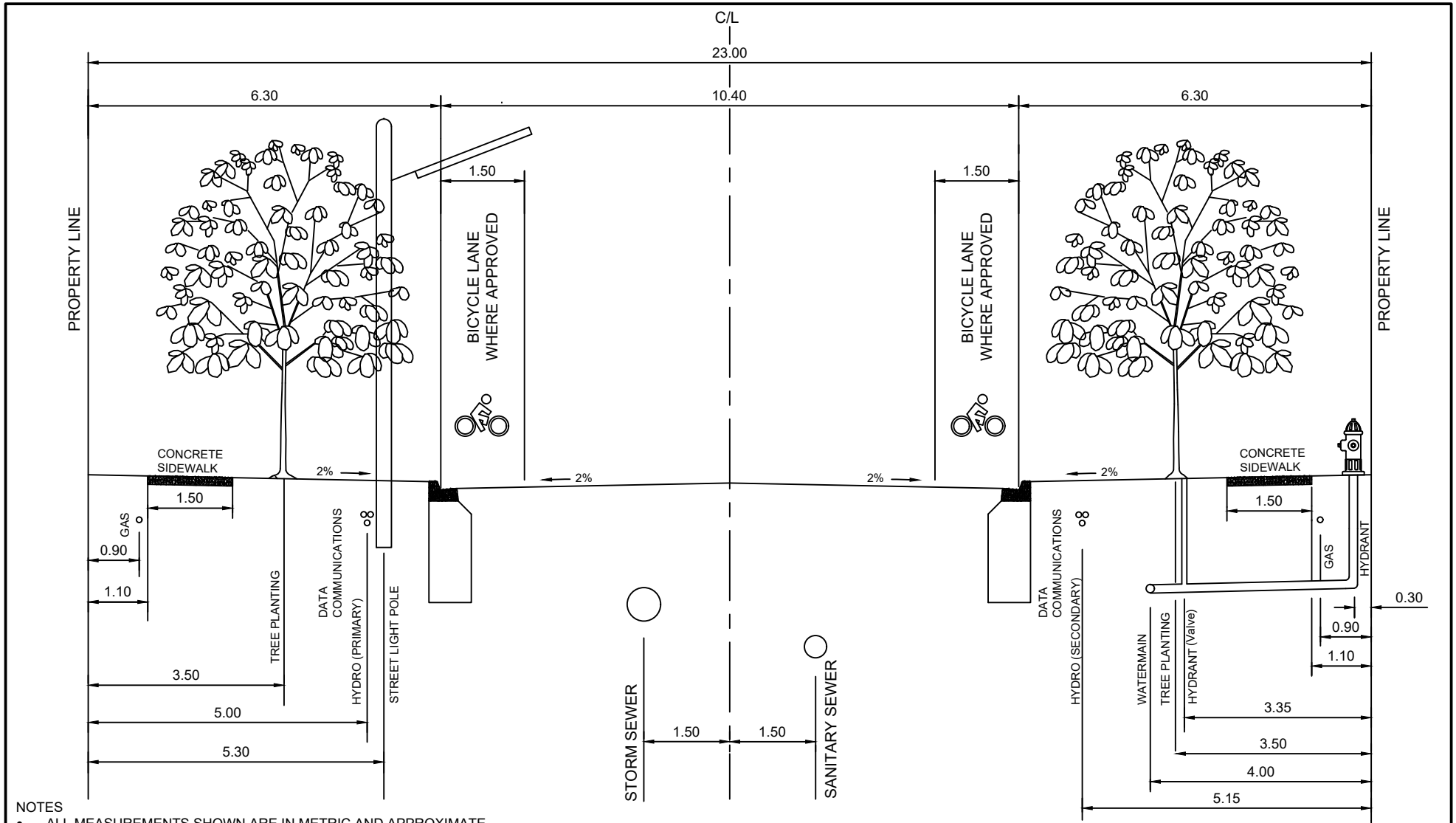
Revision: 2

Reviewed By:

N.R.

Scale:
N.T.S.

Standard
Drawing No.
1



NOTES

- ALL MEASUREMENTS SHOWN ARE IN METRIC AND APPROXIMATE
- ALL EXISTING UTILITIES ARE TO BE LOCATED IN THE FIELD PRIOR TO DIGGING
- MINIMUM SLOPE ON BOULEVARD 2%
- MINIMUM DEPTH OF UTILITIES:
BOULEVARD 0.70 m
PAVEMENT 0.90 m

NOTE

- THE ADDITION OF BIKE LANES AND THE LOCATION AND NUMBER OF SIDEWALKS AND/OR MULTI-USE TRAIL TO BE DETERMINED IN CONSULTATION WITH THE CITY



CITY OF STRATFORD STANDARD DRAWING

**TYPICAL
23.00 m RIGHT OF WAY
10.40 m PAVEMENT WIDTH**

Drawn By: D.E.S.

Date: SEPT. /22

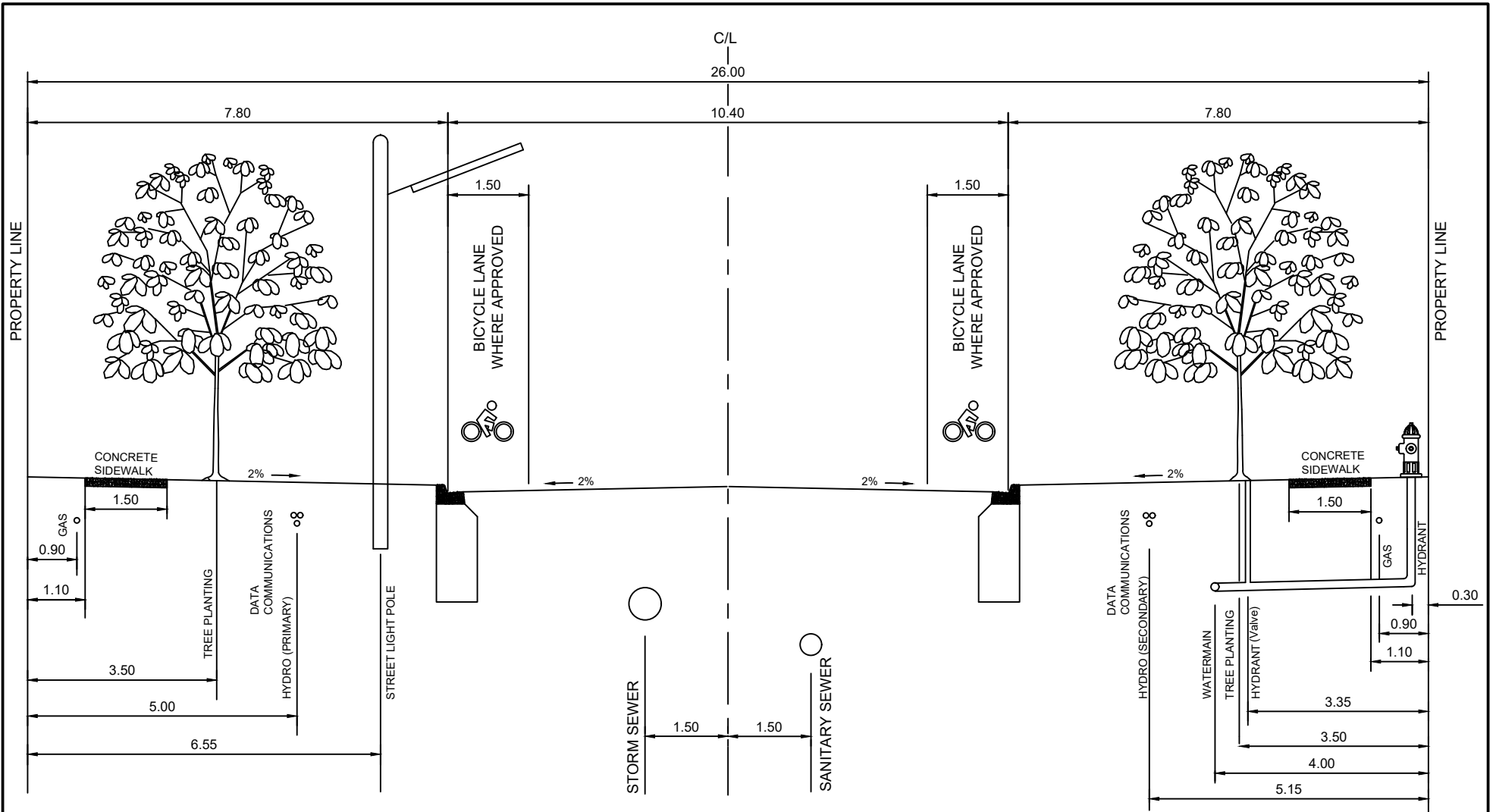
Revision: 2

Reviewed By:

N.R.

Scale:
N.T.S.

Standard
Drawing No.
2



NOTES

- ALL MEASUREMENTS SHOWN ARE IN METRIC AND APPROXIMATE
- ALL EXISTING UTILITIES ARE TO BE LOCATED IN THE FIELD PRIOR TO DIGGING
- MINIMUM SLOPE ON BOULEVARD 2%
- MINIMUM DEPTH OF UTILITIES:
BOULEVARD 0.70 m
PAVEMENT 0.90 m

NOTE

- THE ADDITION OF BIKE LANES AND THE LOCATION AND NUMBER OF SIDEWALKS AND/OR MULTI-USE TRAIL TO BE DETERMINED IN CONSULTATION WITH THE CITY



CITY OF STRATFORD STANDARD DRAWING

**TYPICAL
26.00 m RIGHT OF WAY (WITH BICYCLE LANES)
10.40 m PAVEMENT WIDTH**

Drawn By: D.E.S.

Date: SEPT. /22

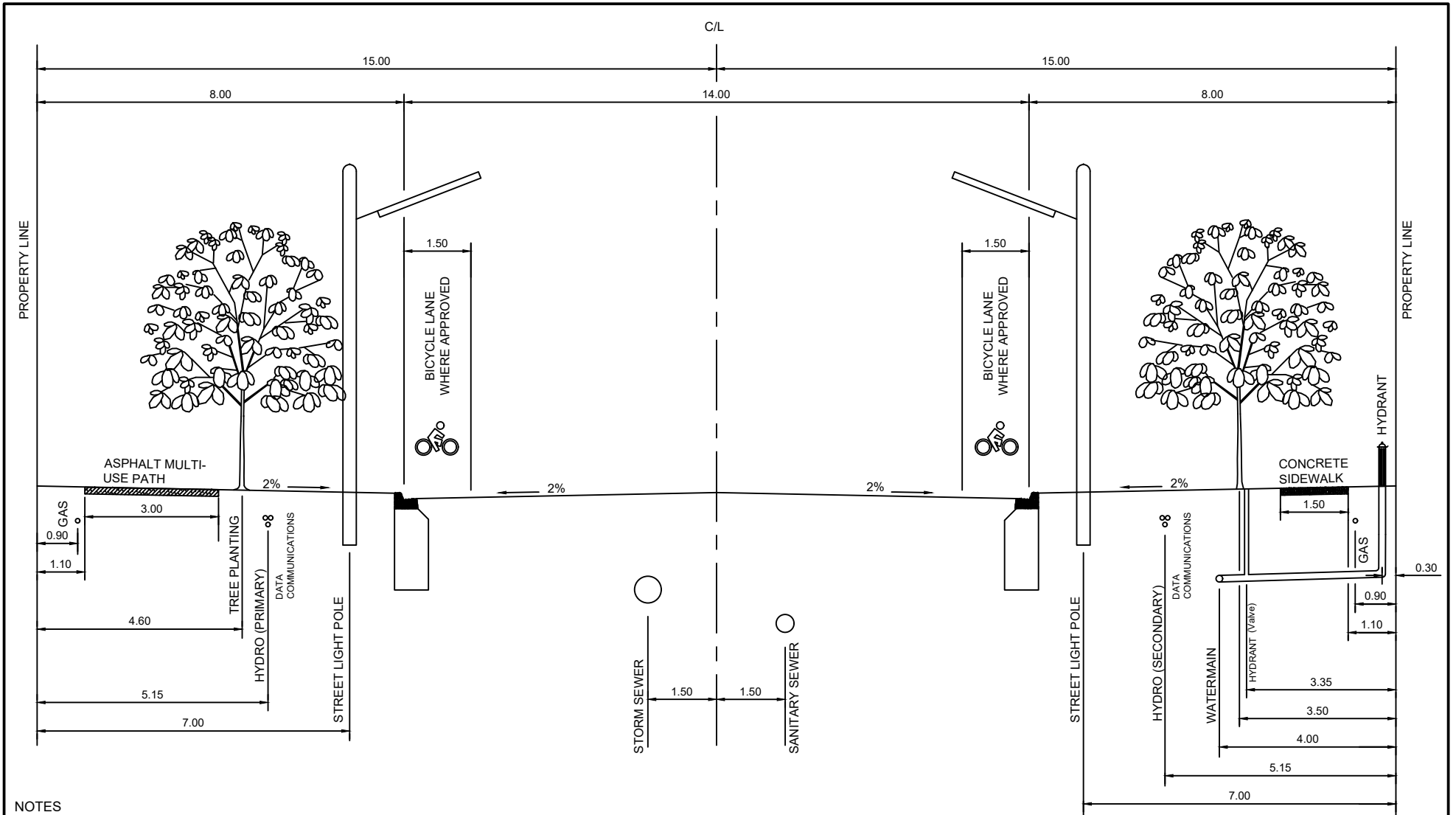
Revision: 2

Reviewed By:

N.R.

Scale:
N.T.S.

Standard
Drawing No.
2B



NOTES

- ALL MEASUREMENTS SHOWN ARE IN METRIC AND APPROXIMATE
- ALL EXISTING UTILITIES ARE TO BE LOCATED IN THE FIELD PRIOR TO DIGGING
- MINIMUM SLOPE ON BOULEVARD 2%
- MINIMUM DEPTH OF UTILITIES:
BOULEVARD 0.70 m
PAVEMENT 0.90 m

NOTE

- THE ADDITION OF BIKE LANES AND THE LOCATION AND NUMBER OF SIDEWALKS AND/OR MULTI-USE TRAIL TO BE DETERMINED IN CONSULTATION WITH THE CITY



CITY OF STRATFORD STANDARD DRAWING

**TYPICAL
30.00 m RIGHT OF WAY
14.00 m PAVEMENT WIDTH**

Drawn By: D.E.S.

Date: SEPT./22

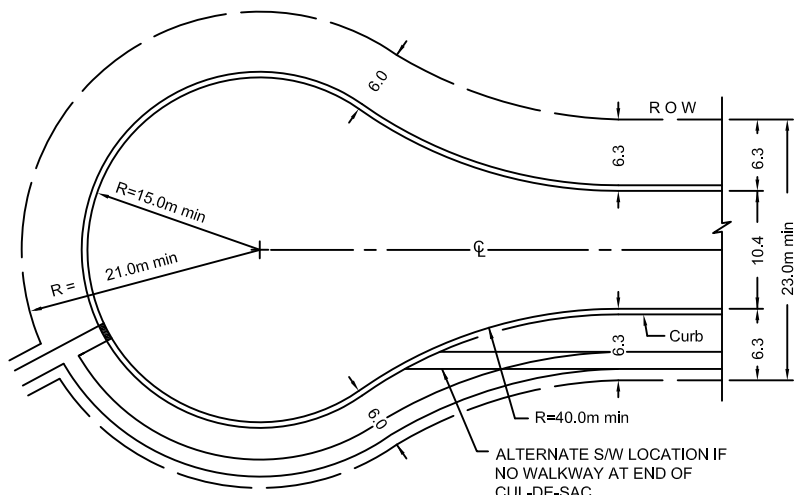
Revision: 3

Reviewed By:

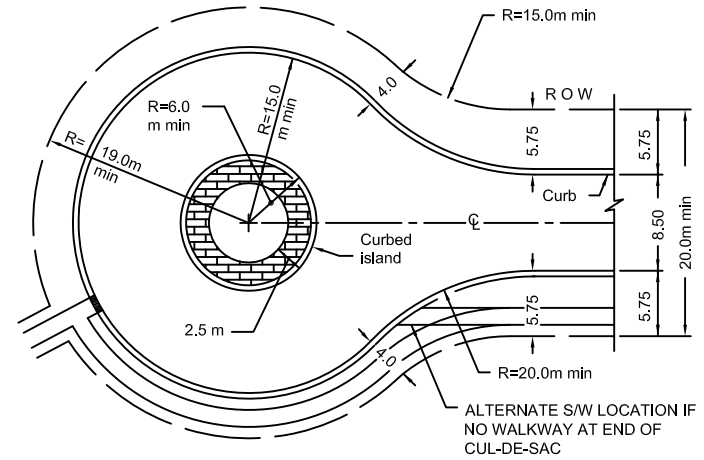
N.R.

Scale:
N.T.S.

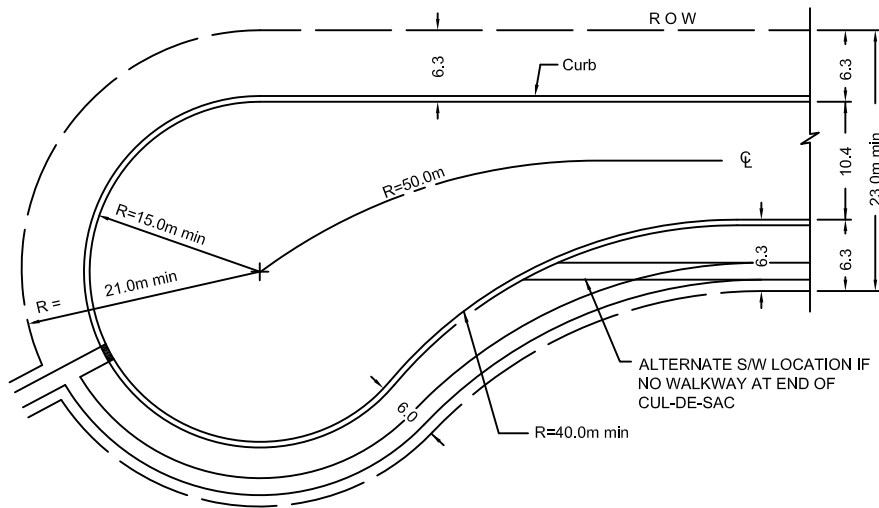
Standard
Drawing No.
3



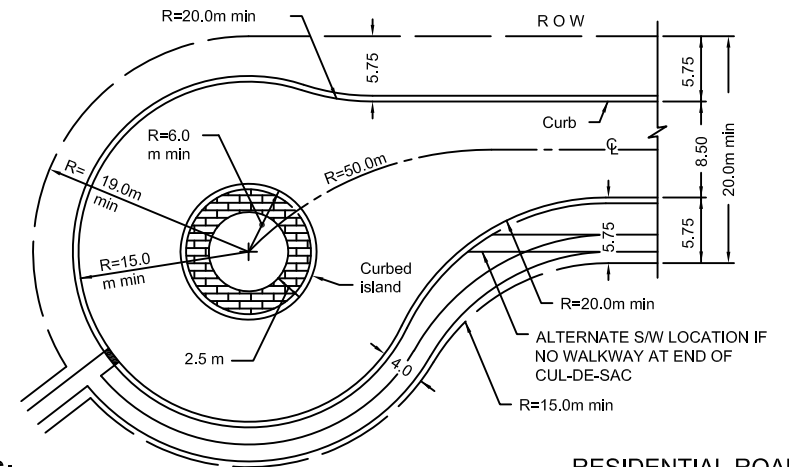
INDUSTRIAL ROAD - TYPE 'A'



RESIDENTIAL ROAD WITH ISLAND - TYPE 'A'



INDUSTRIAL ROAD - TYPE 'B'



RESIDENTIAL ROAD WITH ISLAND - TYPE 'B'

NOTES:

1. Center area to be excavated 600mm and filled with screened topsoil and sod.
2. Flexible edging between brick and centre landscaped area as approved by the Engineer.
3. All dimensions are in millimetres or metres unless otherwise shown.



CITY OF STRATFORD STANDARD DRAWING
CUL-DE-SAC DETAIL FOR
INDUSTRIAL AND RESIDENTIAL
ROADWAYS

Drawn By: D.E.S.

Date: OCT. 2006

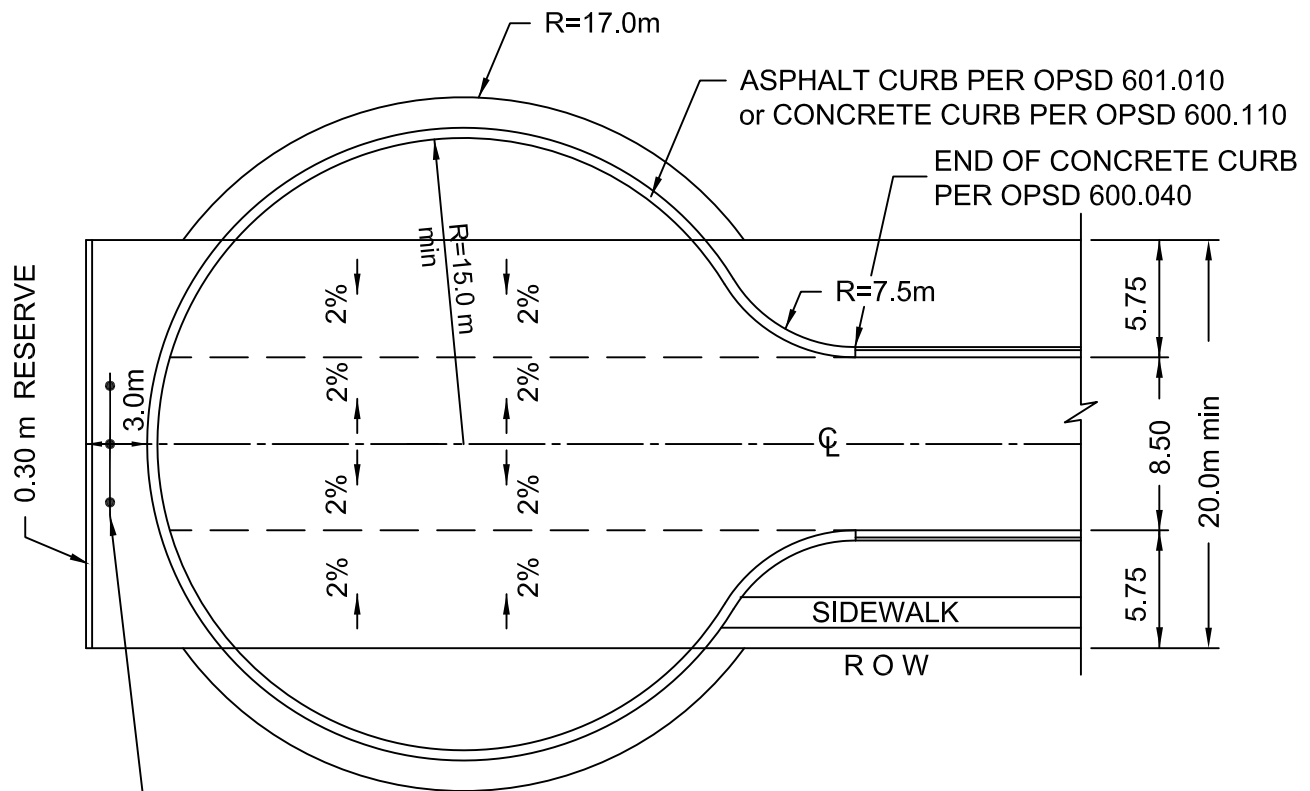
Revision:

Reviewed By:

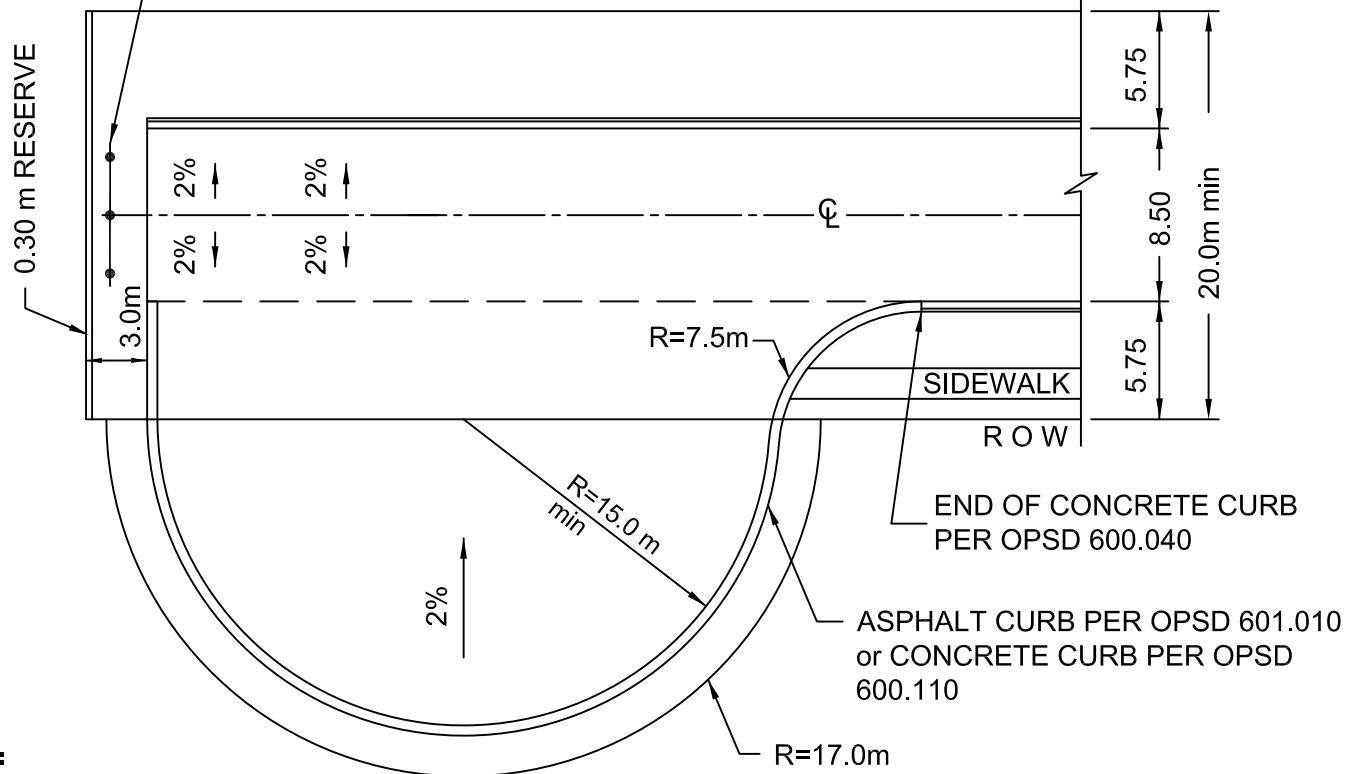
N.R.

Scale:
N.T.S.

Standard
Drawing No.
4



DEAD END BARRICADE - SEE NOTE



NOTE:

DEAD END BARRICADE PER OPSD 973.130 COMPLETE WITH ADDITIONAL 500 mm x 500 mm BLACK ON WHITE SIGN NOTING 'TEMPORARY ONLY - LOCATION OF FUTURE ROAD'.

ALL DIMENSIONS ARE IN MILLIMETRES OR METRES UNLESS SHOWN OTHERWISE.



CITY OF STRATFORD STANDARD DRAWING

TEMPORARY CUL-DE-SAC

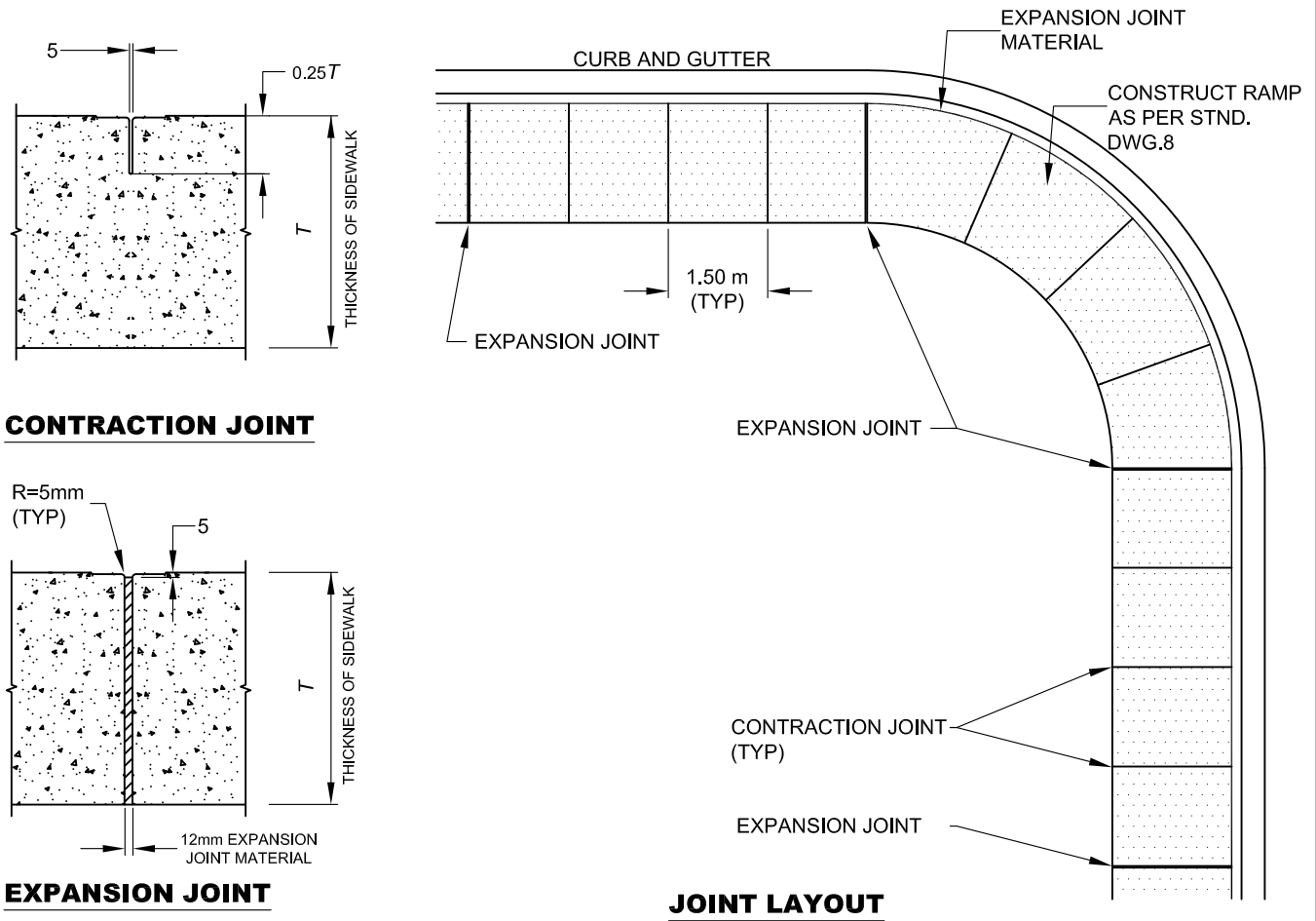
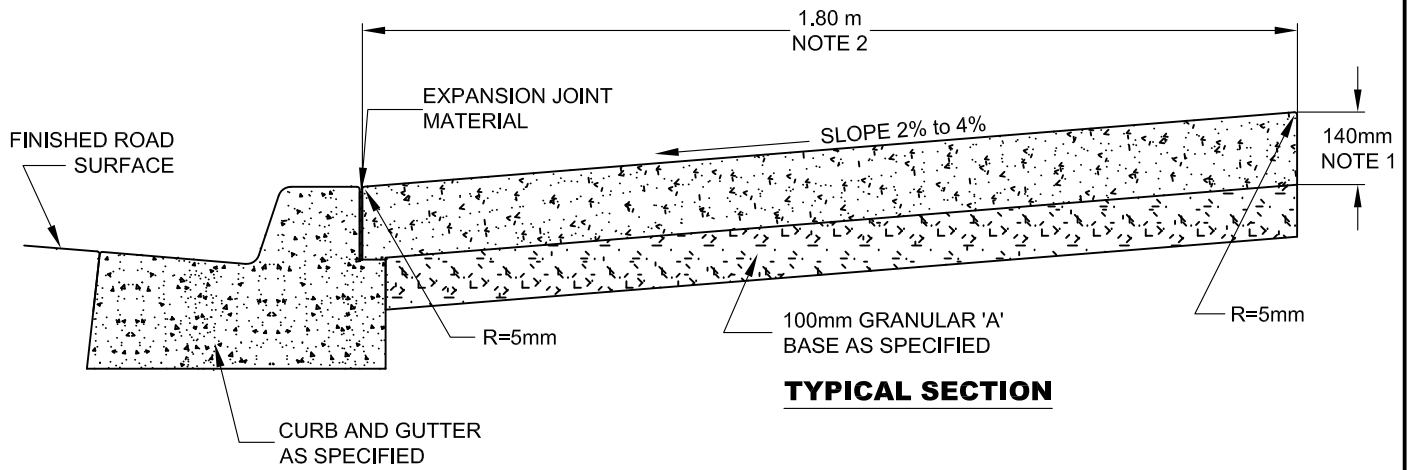
Drawn By: D.E.S.

Date: JAN. 2021

Std. Dwg: **5**

Approved By:

N.R.



NOTES:

1. SIDEWALK THICKNESS SHALL BE A MINIMUM OF 140mm UNLES OTHERWISE SPECIFIED.
2. SIDEWALK WIDTH SHALL BE INCREASED TO TO 2.40m AT SCHOOLS AND OTHER PEDESTRIAN AREAS.

ALL DIMENSIONS ARE IN MILLIMETRES OR METRES UNLESS SHOWN OTHERWISE.



CITY OF STRATFORD STANDARD DRAWING

**CONCRETE SIDEWALK
ADJACENT TO
CURB AND GUTTER**

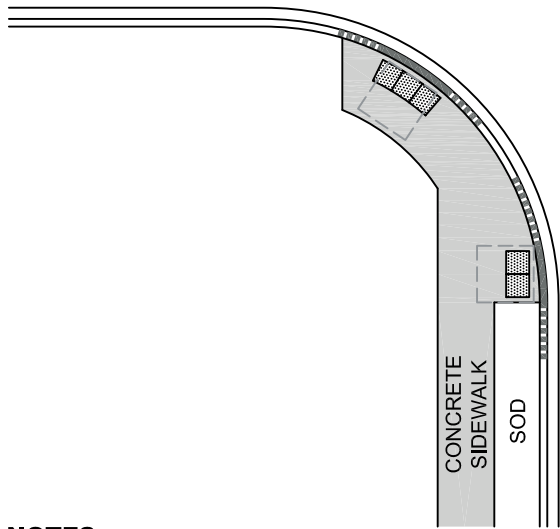
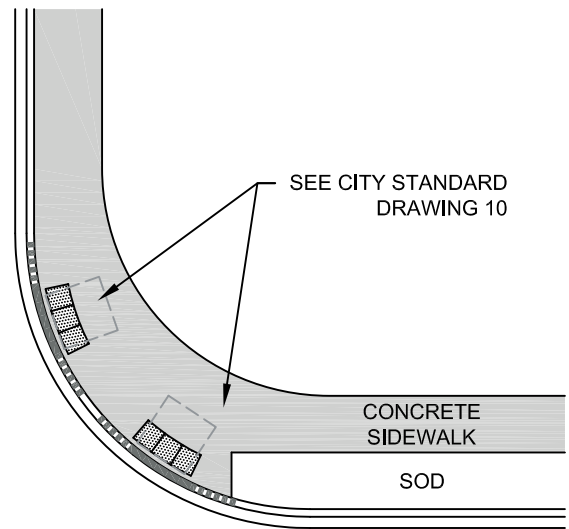
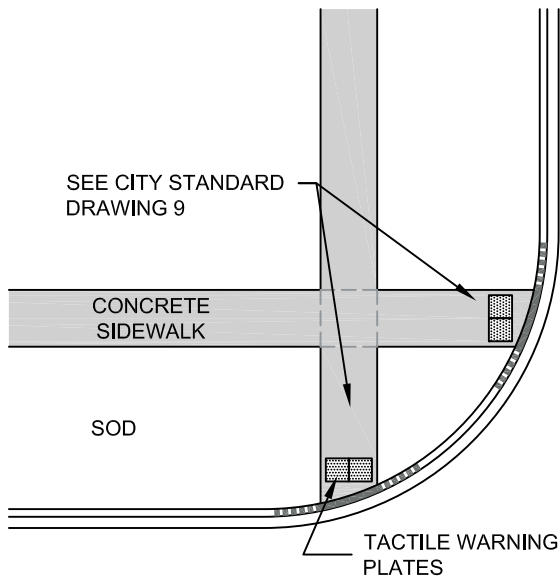
Drawn By: D.E.S.

Date: OCT. 2006

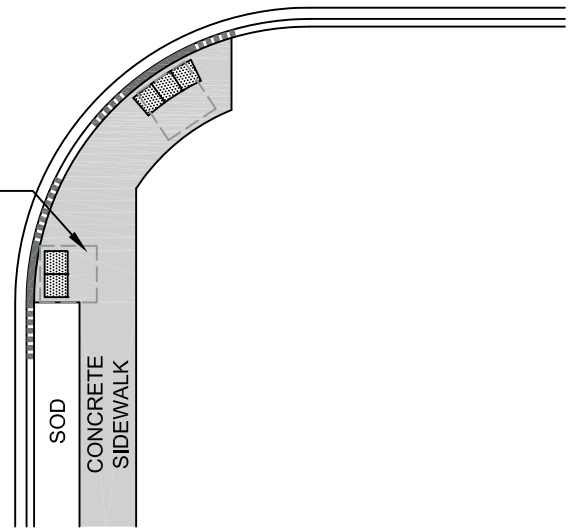
Std. Dwg.: 7

Approved By:

R.N.



1.5m x 1.5m
LANDING AREA
(TYP.)



NOTES:

- 1. ALL TACTILE WARNING PLATE DESIGNS ARE TO BE FINALIZED BY THE PLATE MANUFACTURER. (610mm x 610mm SQUARE OR RADIAL PLATES TO MATCH CURB RADIUS)
- 2. TACTILE WARNING PLATES ARE TO BE PLACED 150mm OFFSET FROM BACK OF CURB (200mm MAXIMUM). MINIMUM 150mm CONCRETE REQUIRED FROM OUTER EDGE OF PLATE ASSEMBLY TO THE EDGE OF SIDEWALK.

- 3. RAMPS ARE TO BE SLOPED BETWEEN 2% AND 5% DESIRABLE (8.33% MAXIMUM).
- 4. LANDING AREAS ARE 1.5m x 1.5m MINIMUM AND ARE SLOPED TO A MAXIMUM OF 2%.
- 5. ALL RAMPS ARE TO BE CONSTRUCTED AS PER CURRENT A.O.D.A. STANDARDS.

————— CONCRETE CURB IS DEPRESSED
 CONCRETE CURB IS IN TRANSITION



CITY OF STRATFORD STANDARD DRAWING

RAMPS AND TACTILE WARNING PLATES

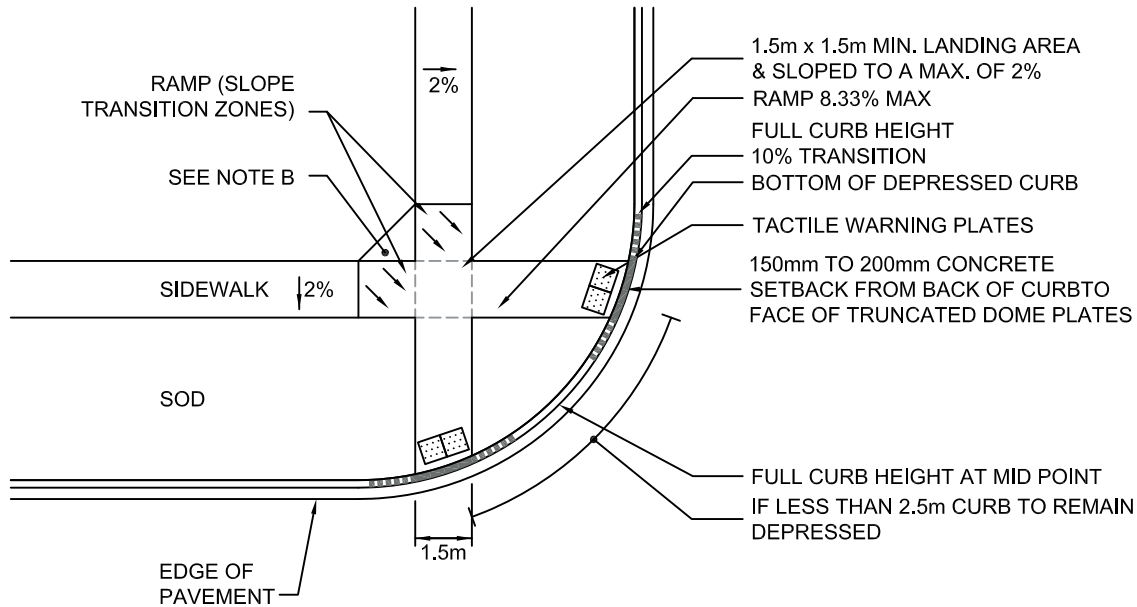
Drawn By: N.S.

Date: NOV. 2014

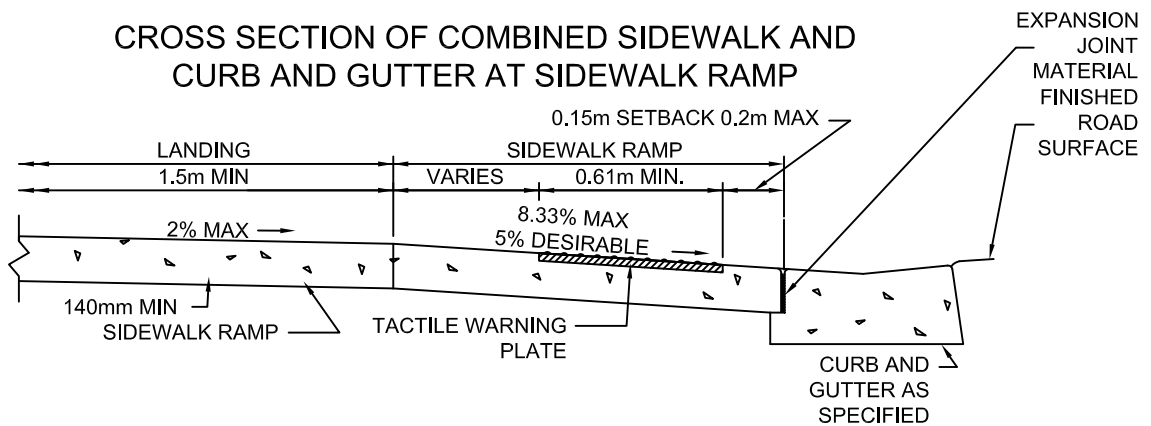
Std. Dwg.: **8**

Approved By:

N.R.



CROSS SECTION OF COMBINED SIDEWALK AND CURB AND GUTTER AT SIDEWALK RAMP



NOTES:

- A. ALL DIMENSIONS ARE IN MILLIMETRES OR METRES UNLESS OTHERWISE SHOWN.
- B. 1.5m x 1.5m CONCRETE TRIANGLE REQUIRED ONLY WHEN TWO SIDEWALKS MEET WITH ONE EXIT
- C. ALL RAMPS ARE TO BE CONSTRUCTED AS PER CURRENT A.O.D.A. STANDARDS.



CITY OF STRATFORD STANDARD DRAWING

**RAMP TREATMENT
COMMON LANDING AREA**

Drawn By: N.S.

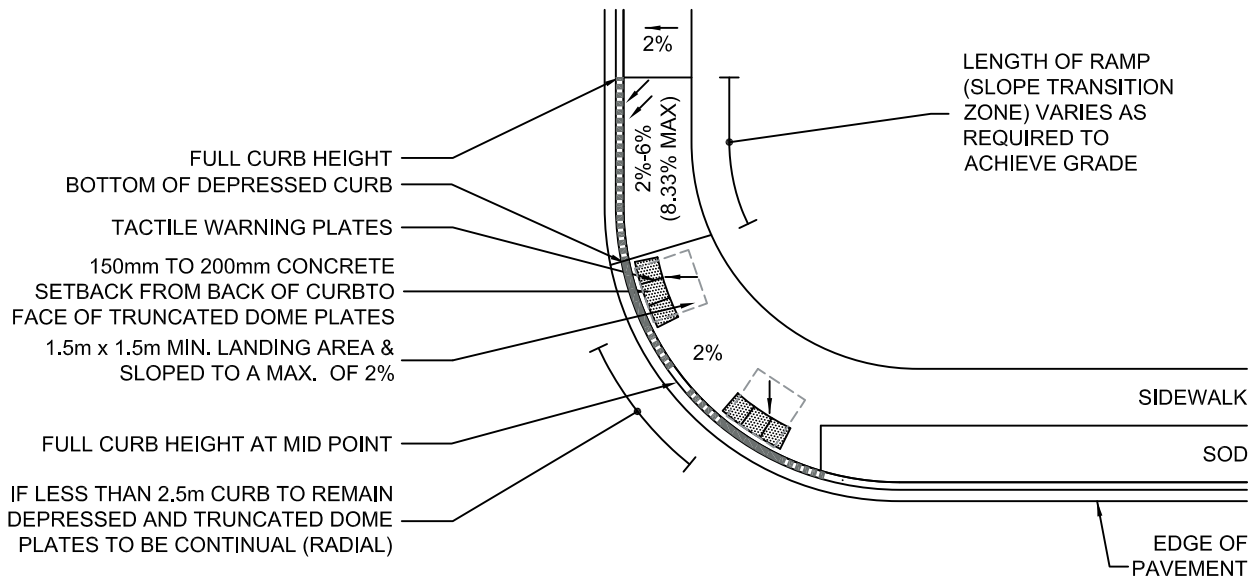
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Std. Dwg.: 9

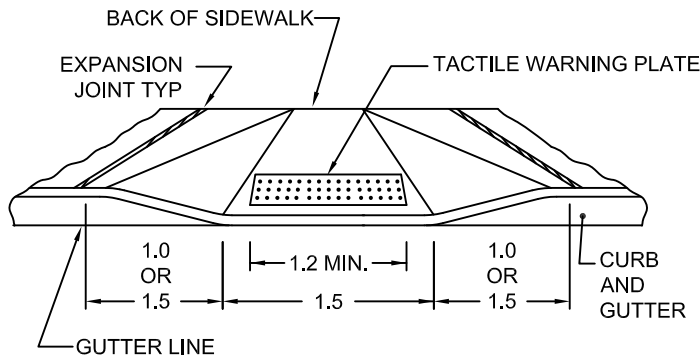
Approved By:

N.R.

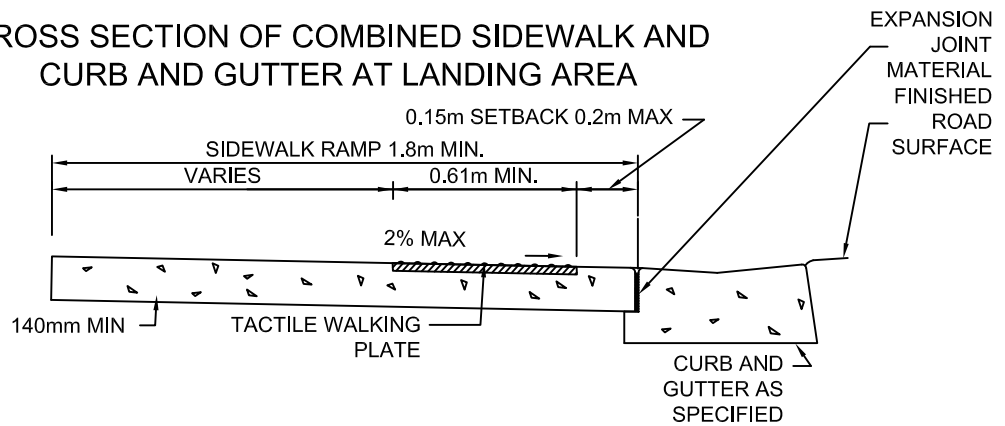
PLAN VIEW



RAMP ELEVATION



CROSS SECTION OF COMBINED SIDEWALK AND CURB AND GUTTER AT LANDING AREA



NOTES:

- A. ALL DIMENSIONS ARE IN MILLIMETRES OR METRES UNLESS OTHERWISE SHOWN.
- B. ALL RAMPS ARE TO BE CONSTRUCTED AS PER CURRENT A.O.D.A. STANDARDS.



CITY OF STRATFORD STANDARD DRAWING

RAMP TREATMENT
COMMON RAMP

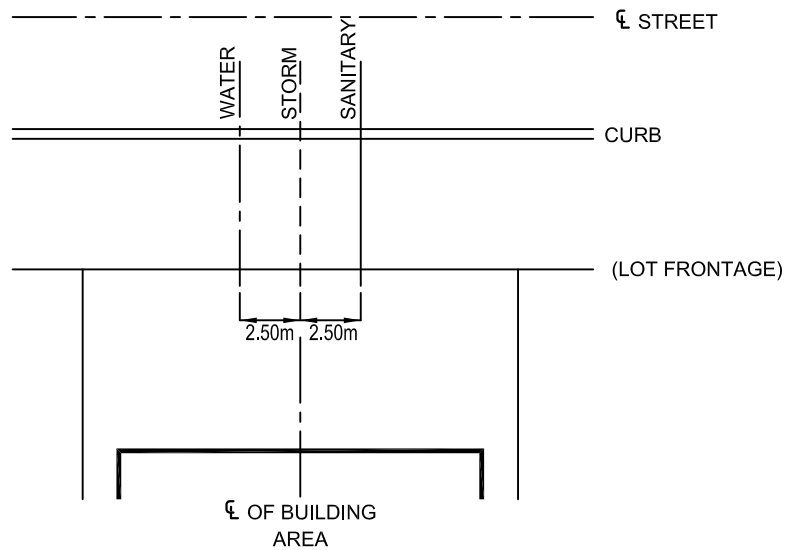
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Date: NOV. 2014

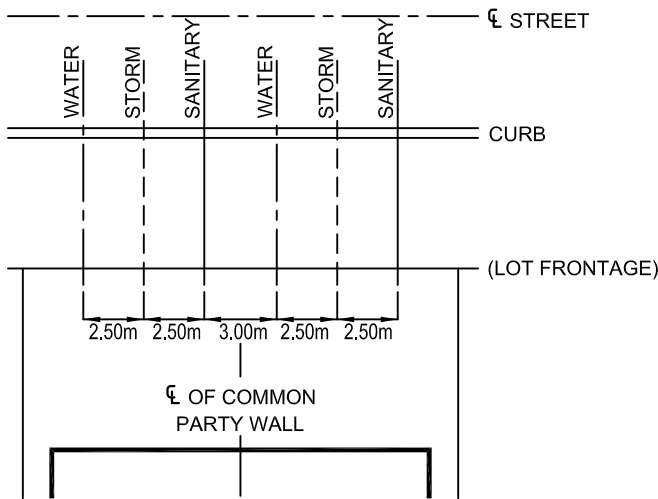
Std. Dwg.: 10

Approved By:

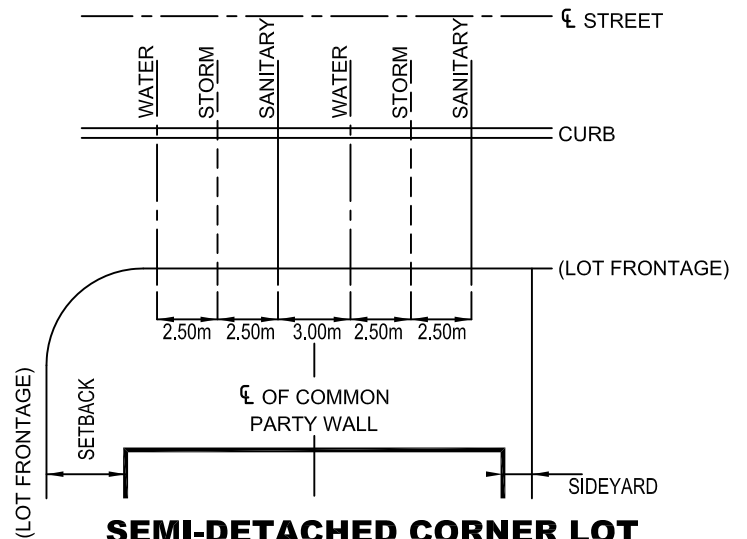
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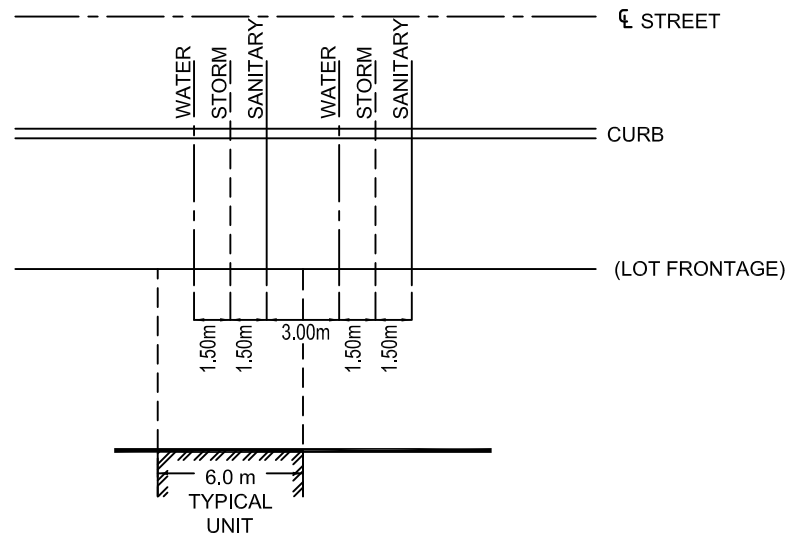
SINGLE FAMILY



SEMI-DETACHED



SEMI-DETACHED CORNER LOT



TOWNHOUSE



CITY OF STRATFORD STANDARD DRAWING

TYPICAL LOT SERVICING TO PROPERTY LINE

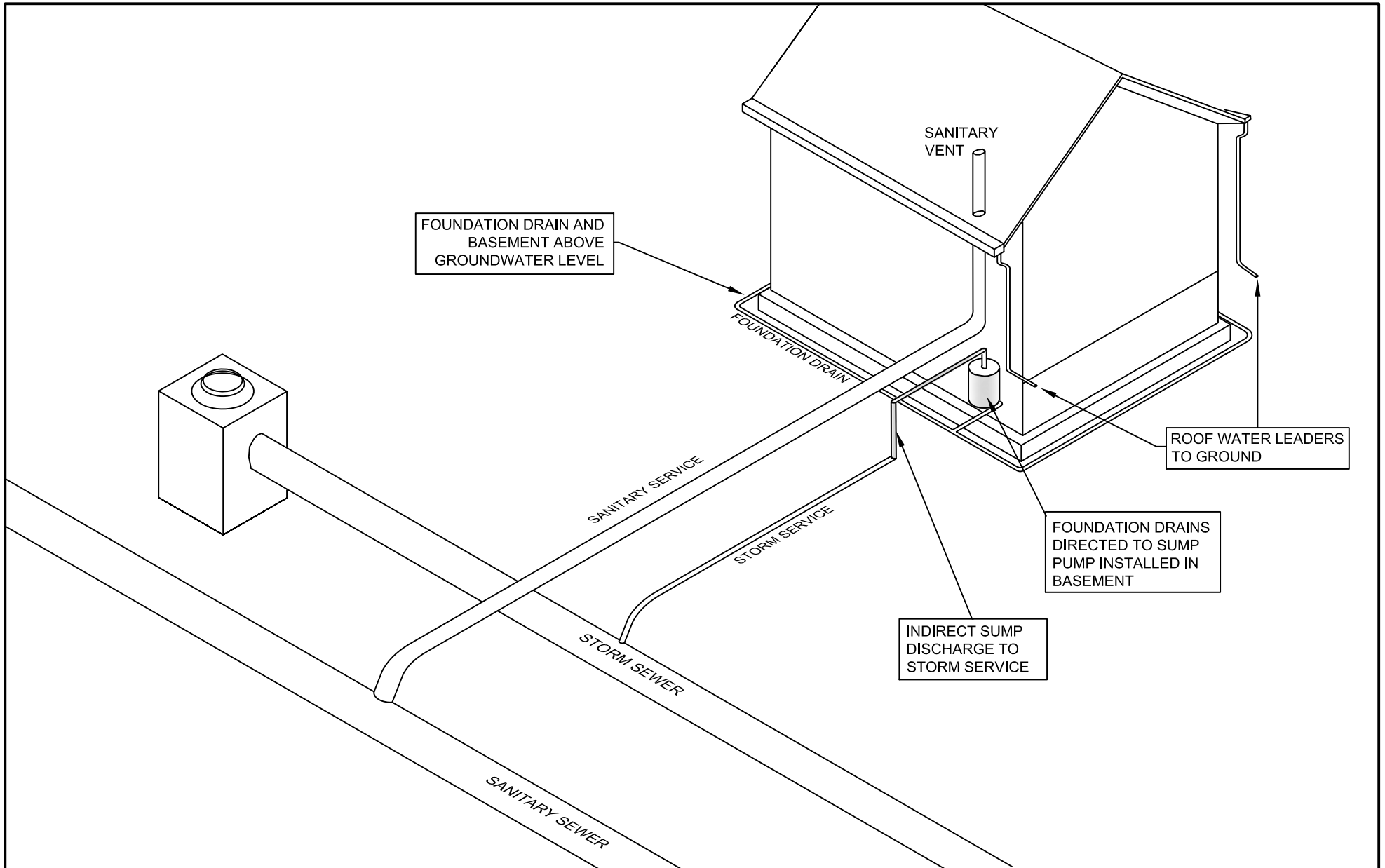
Drawn By: D.E.S.

Date: OCT. 2006

Std. Dwg: 11

Approved By:

N.R.



FOUNDATION DRAIN AND
BASEMENT ABOVE
GROUNDWATER LEVEL

SANITARY
VENT

FOUNDATION DRAIN

ROOF WATER LEADERS
TO GROUND

FOUNDATION DRAINS
DIRECTED TO SUMP
PUMP INSTALLED IN
BASEMENT

INDIRECT SUMP
DISCHARGE TO
STORM SERVICE

SANITARY SERVICE

STORM SERVICE

STORM SEWER

SANITARY SEWER

CITY OF STRATFORD STANDARD DRAWING

**PROPOSED DRAIN CONNECTIONS
FOR NEW DEVELOPMENT**



Drawn By: D.E.S.

Scale:
N.T.S.

Date: OCT. 2006

Revision:

Reviewed By:

N.R.

Standard
Drawing No.
12

NEW DEVELOPMENT

MINOR SYSTEM DISCHARGE LOCATION

NEW SEWER SYSTEM TO MAJOR WATERCOURSE OR DRAIN:
• ROADHOUSE DRAIN • AVON RIVER/LAKE VICTORIA
• COURT DRAIN • IDINGTON CREEK

CONNECTION TO EXISTING TRUNK SYSTEM

DETERMINE 250 YEAR DESIGN WATER LEVEL IN WATERCOURSE (SET TAILWATER/OUTLET CONDITIONS)

DETERMINE 250 YEAR DESIGN WATER LEVEL IN OUTLET WATERCOURSE AND EXISTING TRUNK

ASSESS 250 YEAR HGL IN NEW SEWER SYSTEM FROM OUTLET TO SITE ¹

ASSESS SEASONALLY HIGH GROUNDWATER LEVEL AT SITE

FOUNDATION DRAIN 1.5 m ABOVE OBVERT AND 1.0 m ABOVE 250-YEAR HGL¹ IN THE STORM SEWER

YES

NO

FOUNDATION DRAIN 0.75 m ABOVE SEASONALLY HIGH GROUNDWATER LEVEL

FOUNDATION DRAIN 1.0 m ABOVE SEWER OBVERT

YES

NO

YES

NO

• SUMP PUMP ² TO STORM SEWER

• GRAVITY STORM PDC

FOUNDATION DRAIN 0.75 m ABOVE SEASONALLY HIGH GROUNDWATER LEVEL

• RAISE BASEMENT/FOUNDATION ELEVATIONS OR LOWER HGL (INCREASE SEWER CAPACITY OR DEEPEN SEWER, ETC.)

YES

NO

• SUMP PUMP TO STORM SEWER

• RAISE BASEMENT/FOUNDATION ELEVATIONS

NOTES:

- 1. MAY ASSUME THE PROPORTION OF THE REGULATORY EVENT THAT IS CAPTURED IS EQUIVALENT TO THE COMPLETE CAPTURE OF THE 25-YEAR EVENT RUNOFF.
- 2. SUMP PUMP CRITERIA:
 - i) SET DISCHARGE PIPE ABOVE CENTRELINE ELV. OF ROAD (MIN.)
 - ii) PROVIDE POSITIVE DRAINAGE AWAY FROM CHECK VALVE TO PREVENT STANDING WATER AND FREEZING.



CITY OF STRATFORD STANDARD DRAWING

NEW DEVELOPMENT PDC REVIEW/SEWER DESIGN

Drawn By: D.E.S.

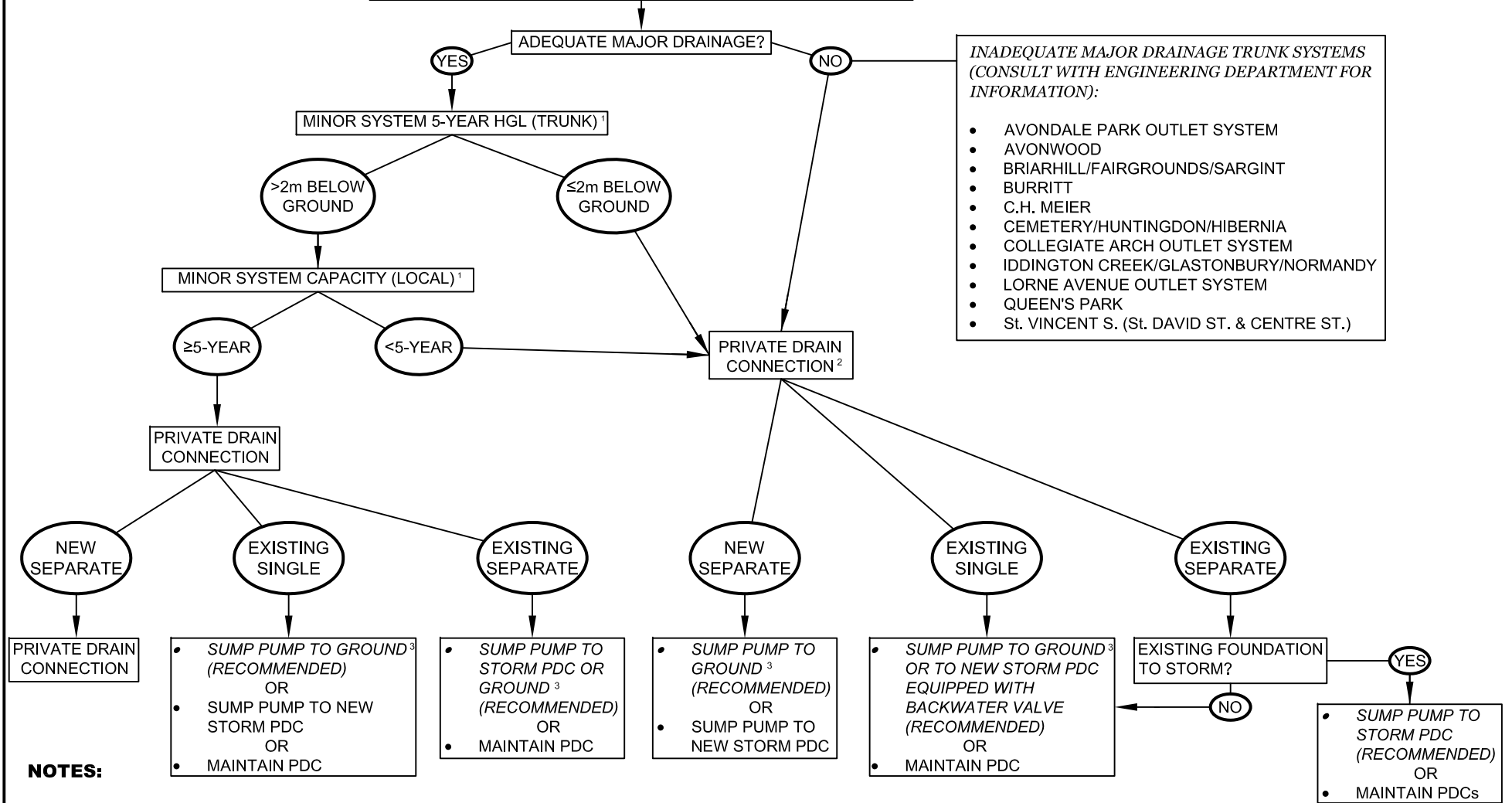
Date: OCT. 2006

Std. Dwg: 13

Approved By:

N.R.

INFILL/REDEVELOPMENT WITHIN EXISTING TRUNK SEWER SYSTEM



CITY OF STRATFORD STANDARD DRAWING

INFILL/REDEVELOPMENT
PDC REVIEW



Drawn By: D.E.S.

Date: OCT. 2006

Revision:

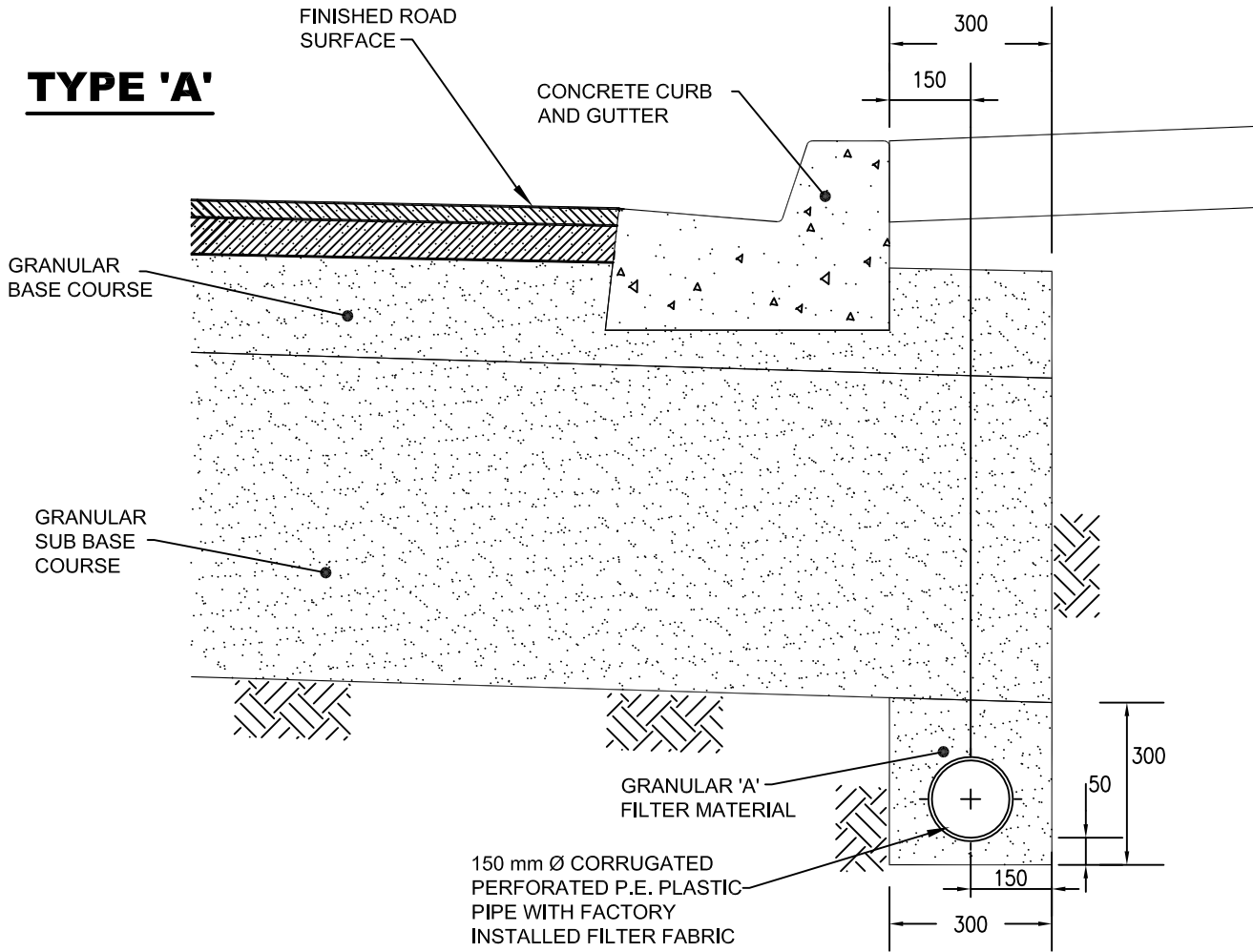
Reviewed By:

N.R.

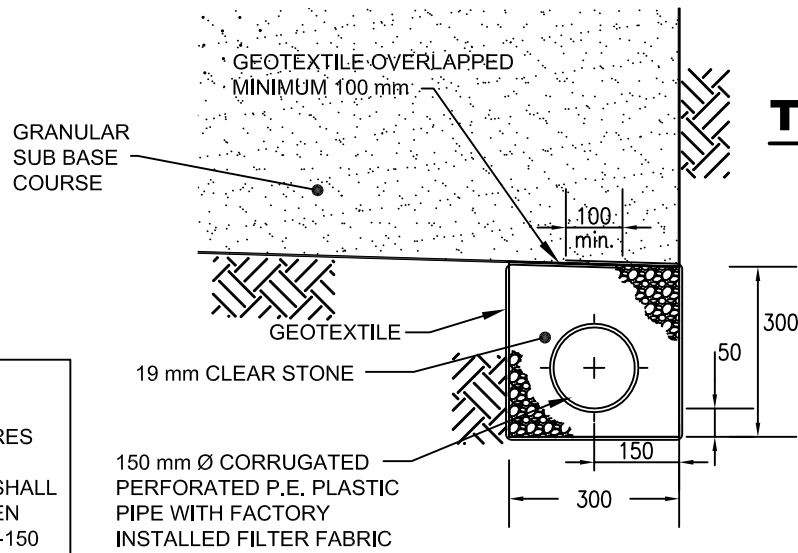
Scale:
N.T.S.

Standard
Drawing No.
14

TYPE 'A'



TYPE 'B'



NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS SHOWN OTHERWISE.
2. TYPE 'B': THE SUBDRAIN TRENCH SHALL BE LINED WITH CLASS II NON-WOVEN GEOTEXTILE, WITH AN F.O.S. OF 75-150 um AND A MINIMUM THICKNESS OF 1mm.
3. SUBDRAIN SHALL HAVE A MINIMUM PIPE STIFFNESS OF 210 kPa.



CITY OF STRATFORD STANDARD DRAWING

150 mm Ø SUBDRAIN DETAIL

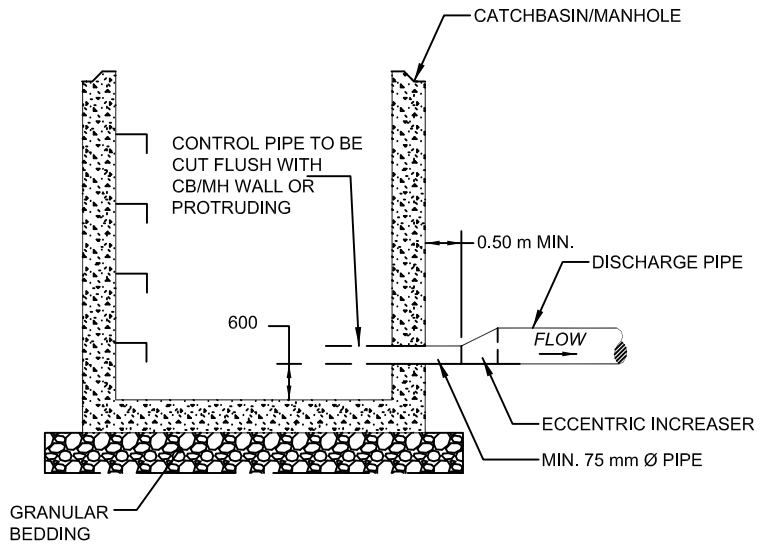
Drawn By: D.E.S.

Date: MAR, 2016

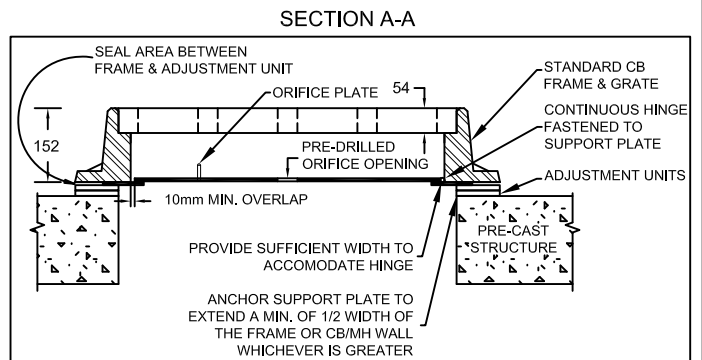
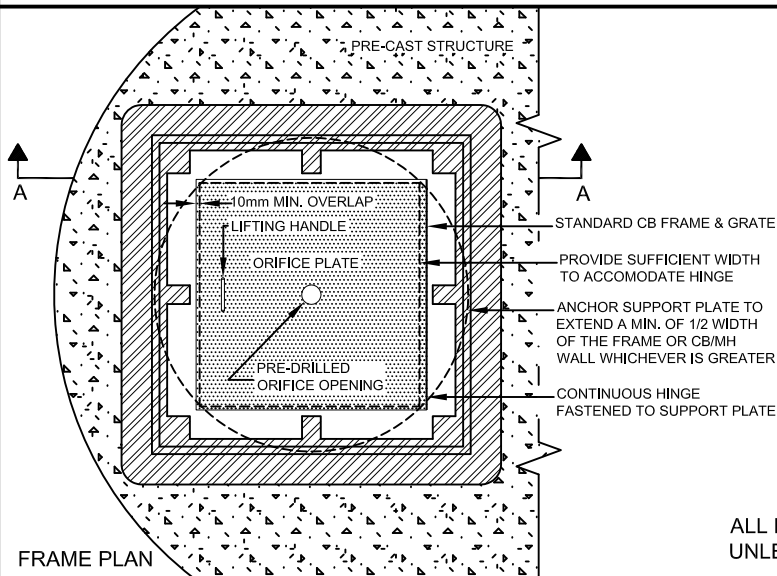
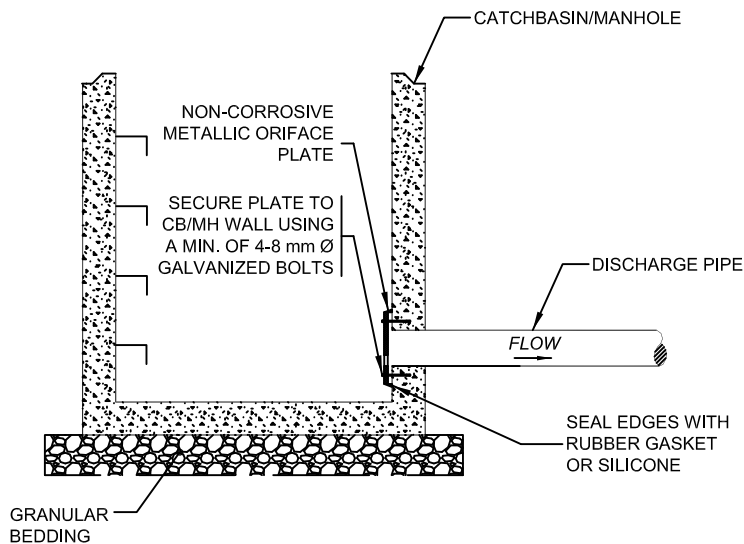
Std. Dwg: 15

Approved By:

N.R.



NOTE:
ORIFICE PLATES INSIDE A MH TO BE CURVED TO MATCH THE RADIUS OF THE MH WALL. ALL OPENINGS AROUND PERIMETER OF PLATE TO BE SEALED WITH COMPATIBLE SEALANT.



ALL DIMENSIONS ARE IN MILLIMETRES OR METRES UNLESS SHOWN OTHERWISE.



CITY OF STRATFORD STANDARD DRAWING

ORIFICE DETAILS

Drawn By: D.E.S.

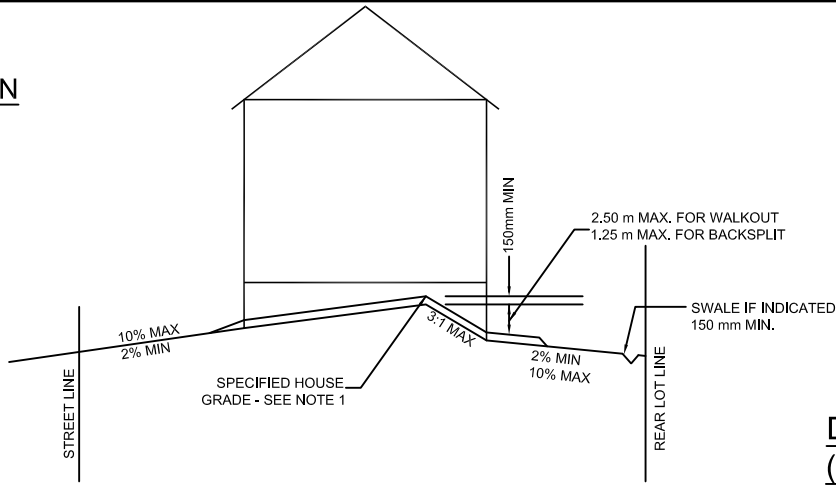
Date: OCT. 2006

Std. Dwg.: 16

Approved By:

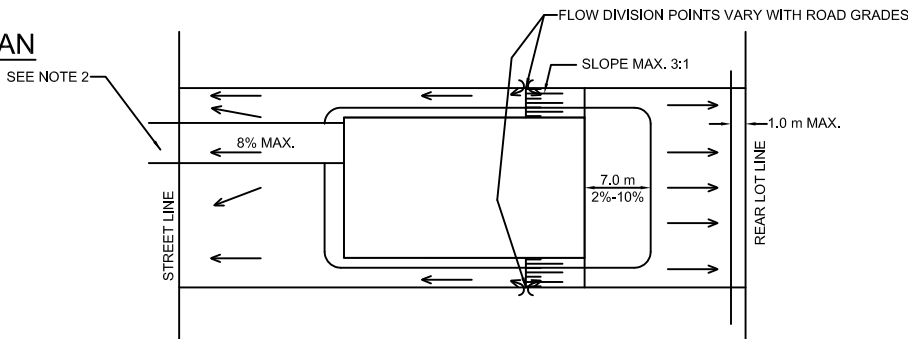
N.R.

ELEVATION

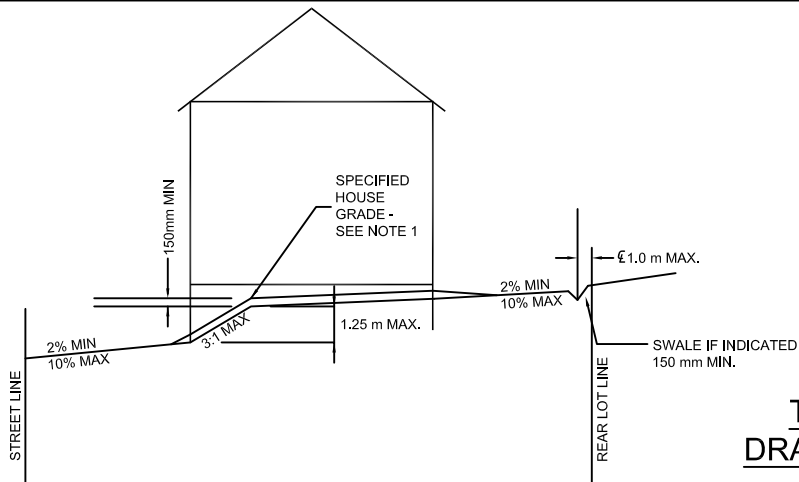


**TYPICAL SPLIT LOT
DRAINAGE WALKOUT
(W.O.) OR BACKSPLIT
(B.S.) TYPE**

PLAN

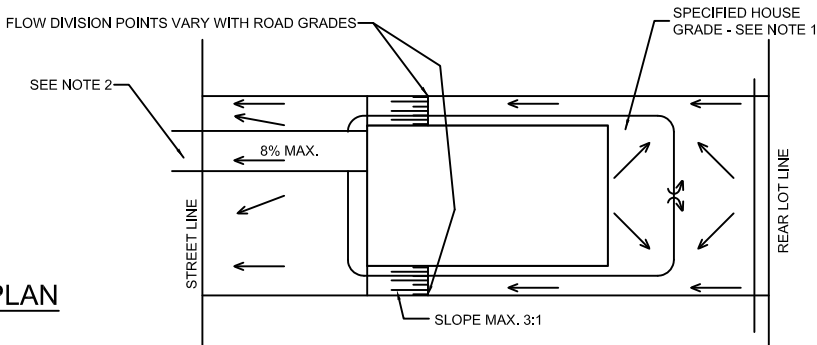


ELEVATION



**TYPICAL SPLIT LOT
DRAINAGE FRONT SPLIT
TYPE (F.S.)**

PLAN



NOTES:

1. SPECIFIED HOUSE GRADE REFERS TO GROUND ELEV. OPPOSITE FLOW DIVISIONS POINTS MIN. 0.15 m FROM HIGHEST SPLIT POINT ELEV.
2. DRIVEWAY LOCATION CAN VARY WITH HOUSE TYPE AND ROAD GRADE.
3. SIDE SWALE TO BE LOCATED AT THE PROPERTY LINE.



CITY OF STRATFORD STANDARD DRAWING

**LOT DRAINAGE
AND GRADING**

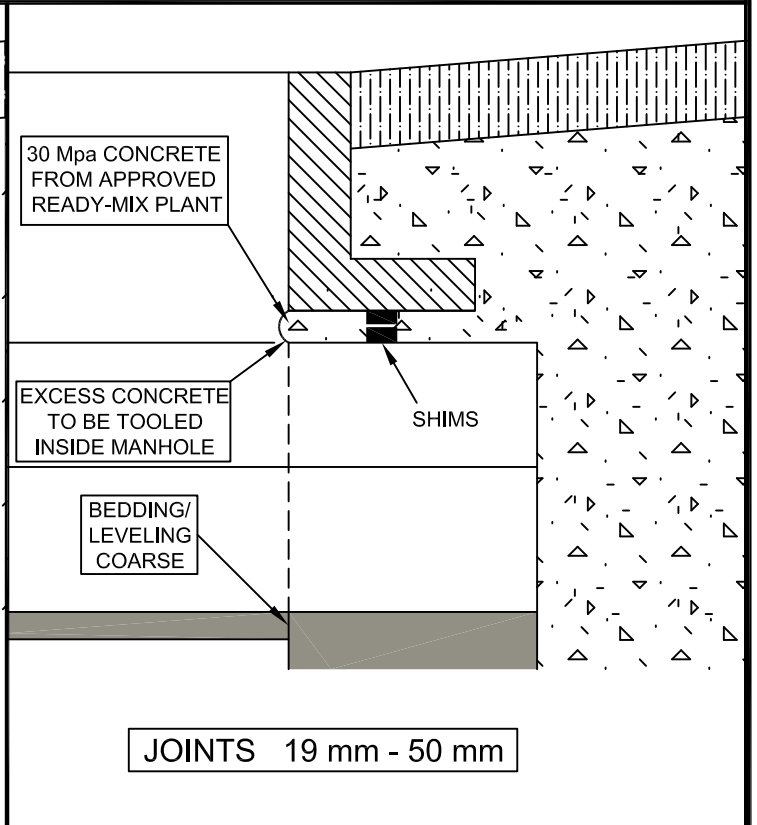
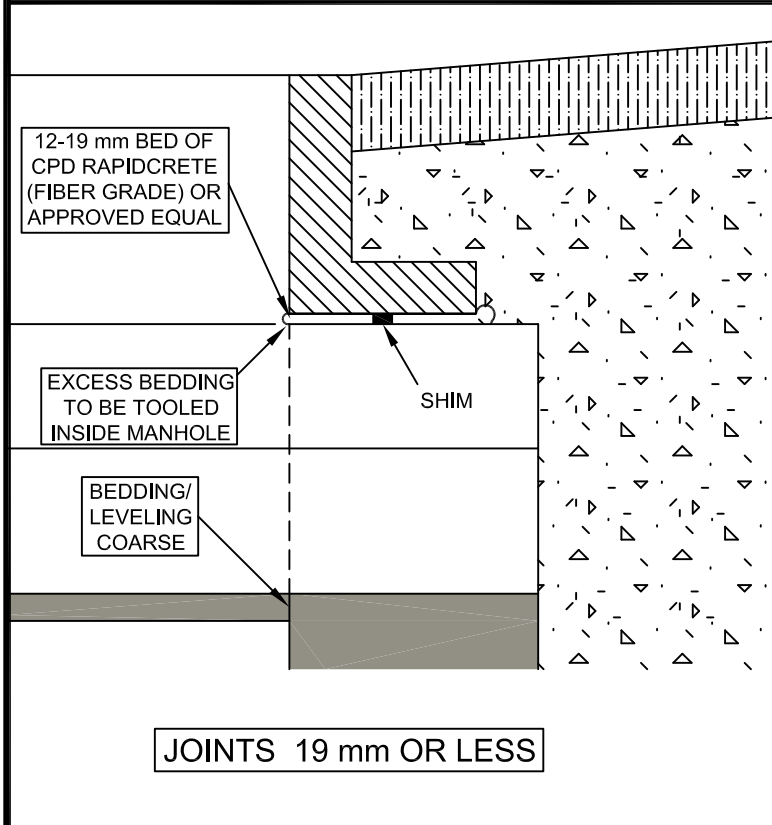
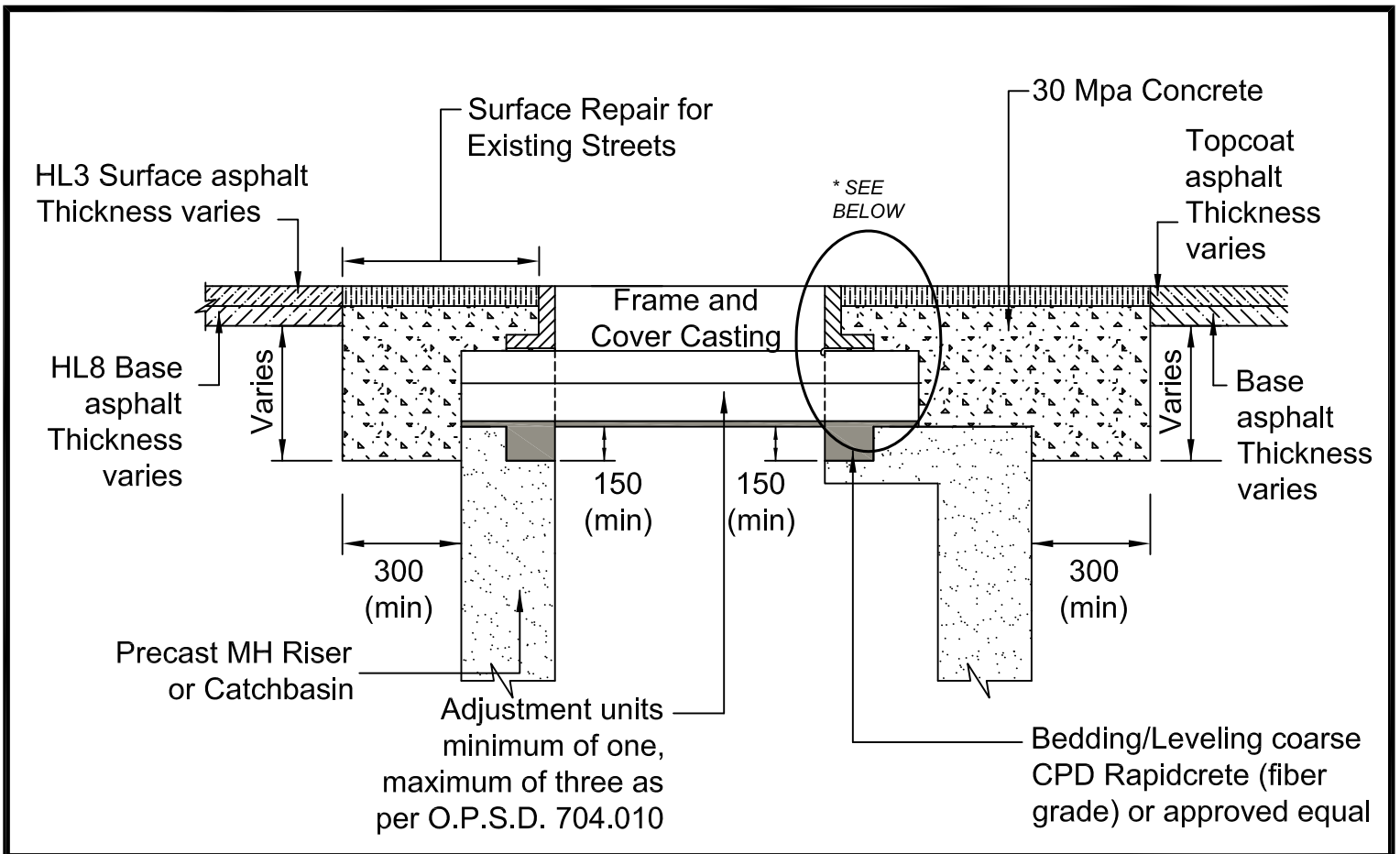
Drawn By: D.E.S.

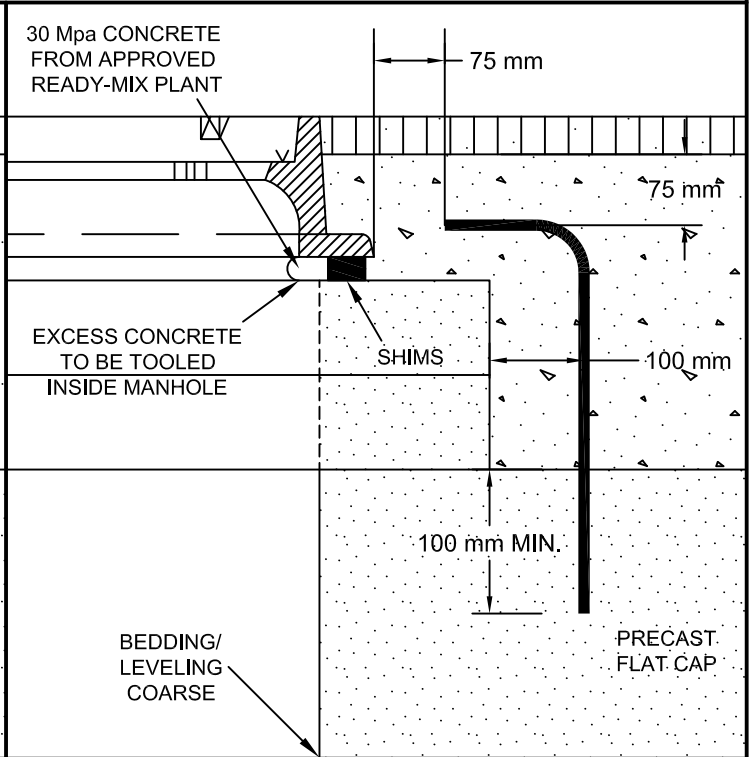
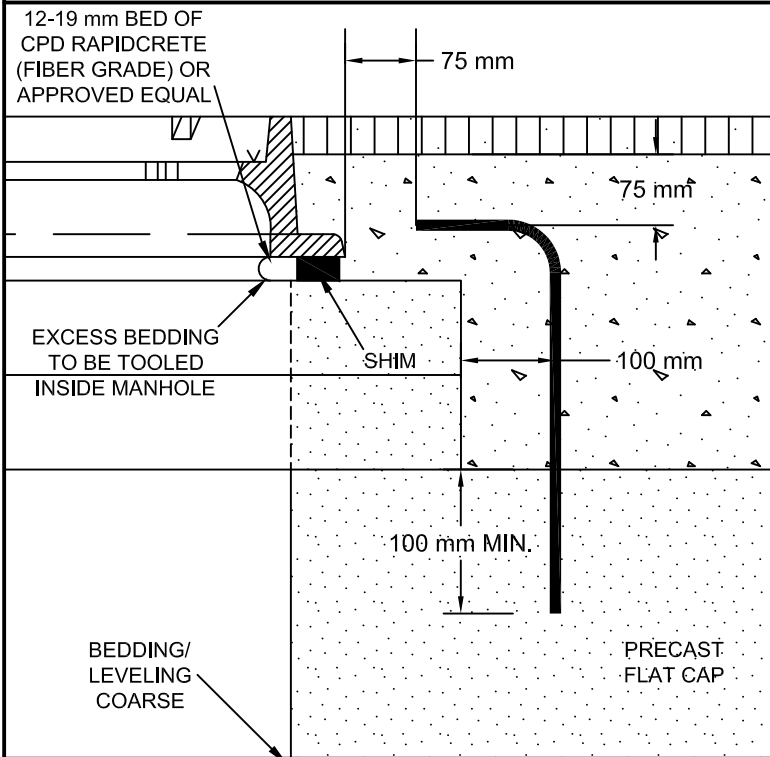
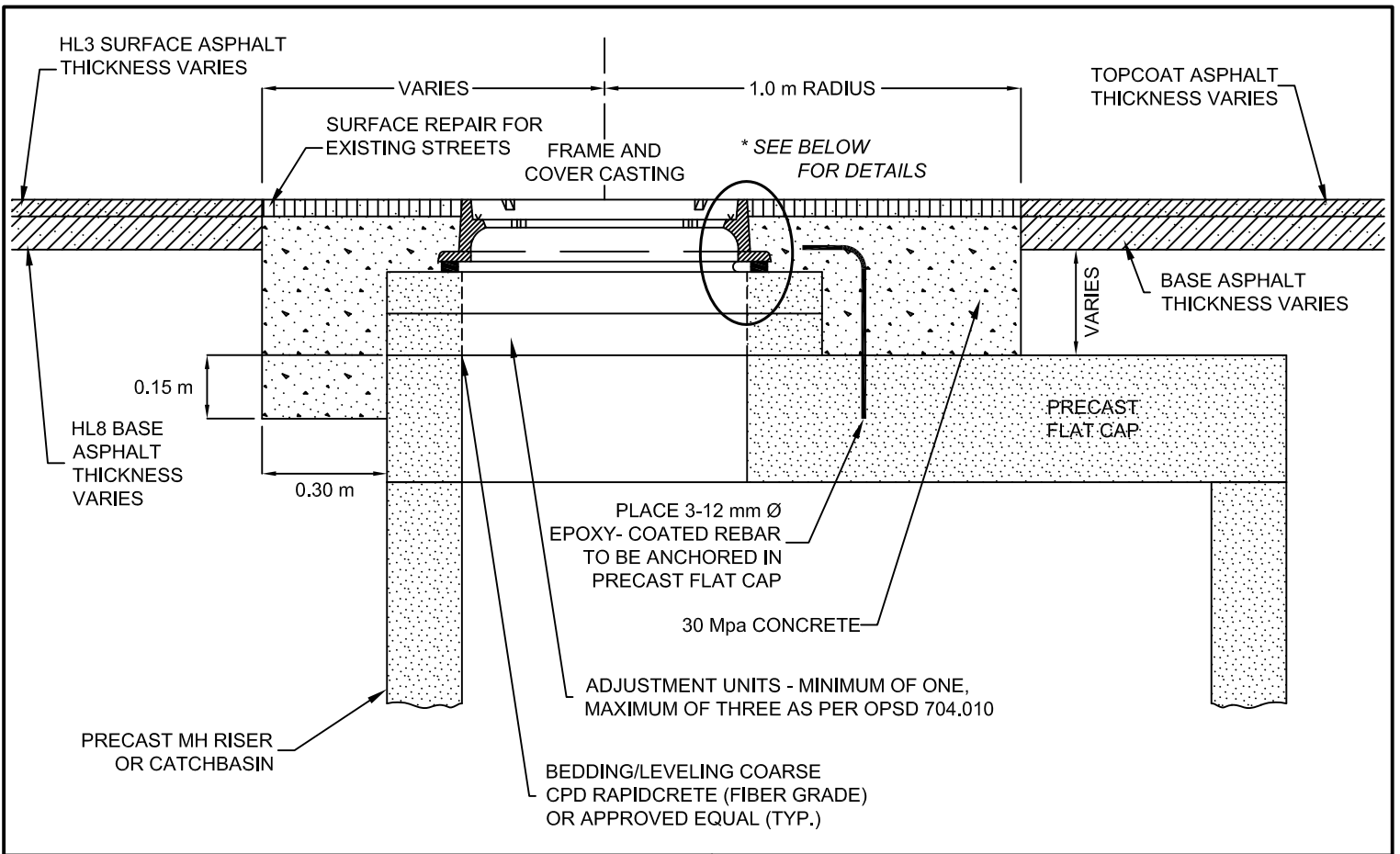
Date: OCT. 2006

Std. Dwg.: 17

Approved By:

N.R.





JOINTS 19 mm OR LESS

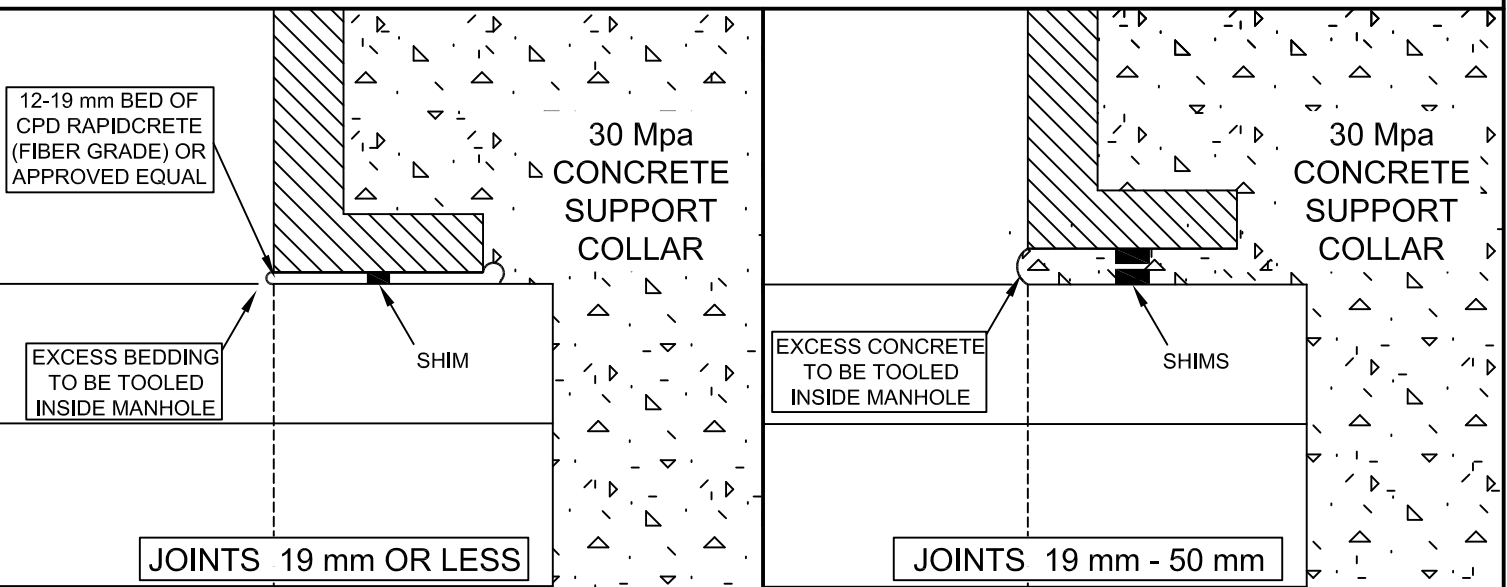
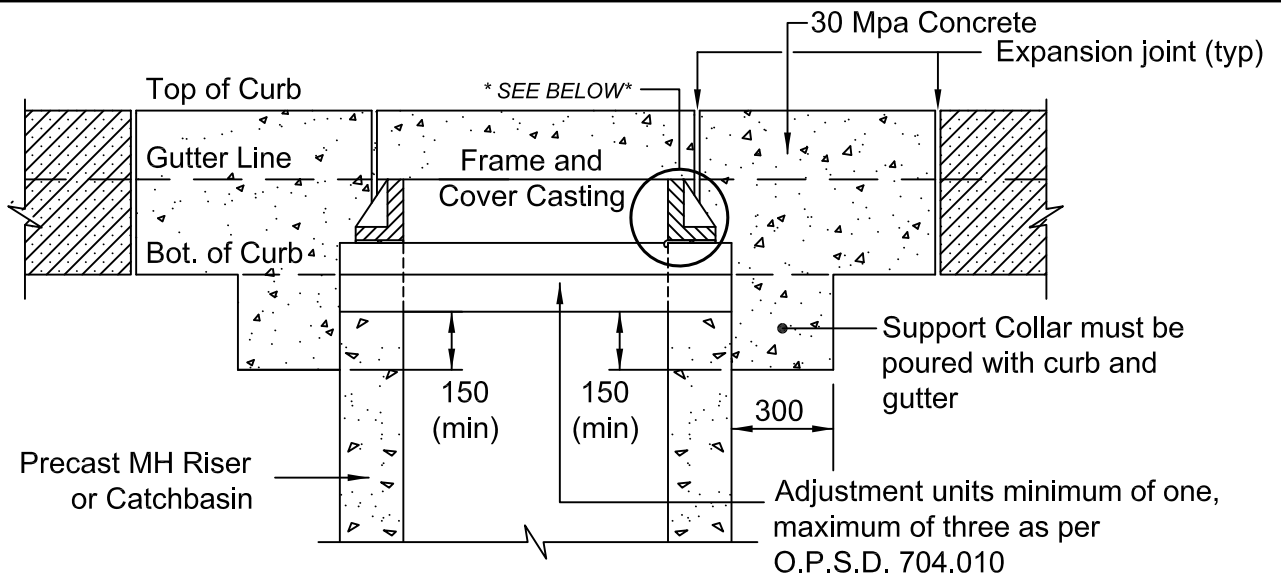
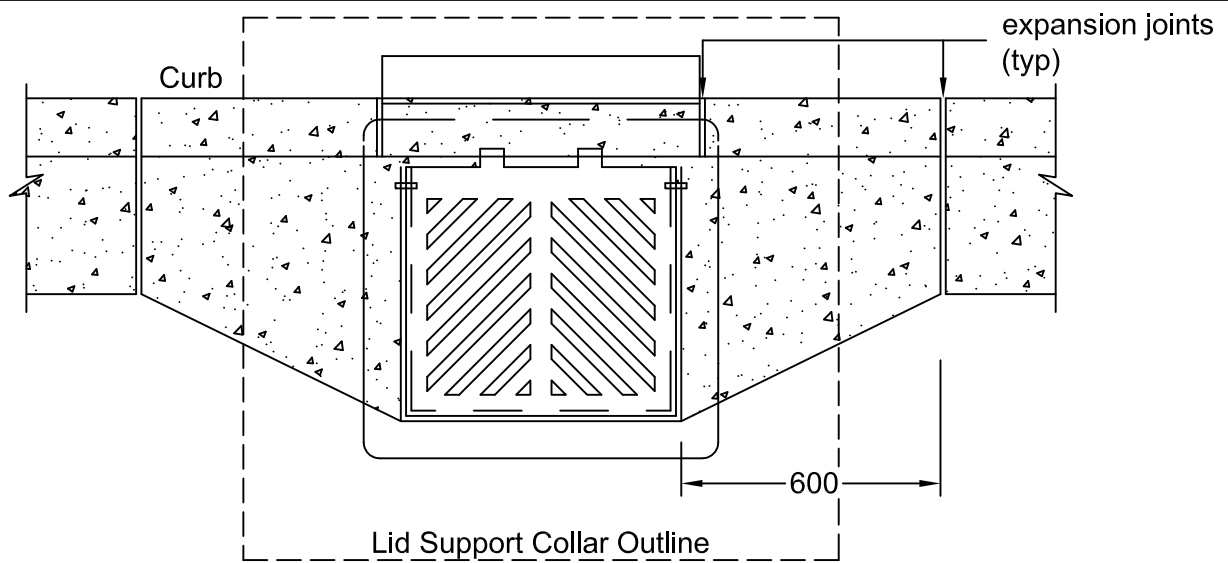
JOINTS 19 mm - 50 mm

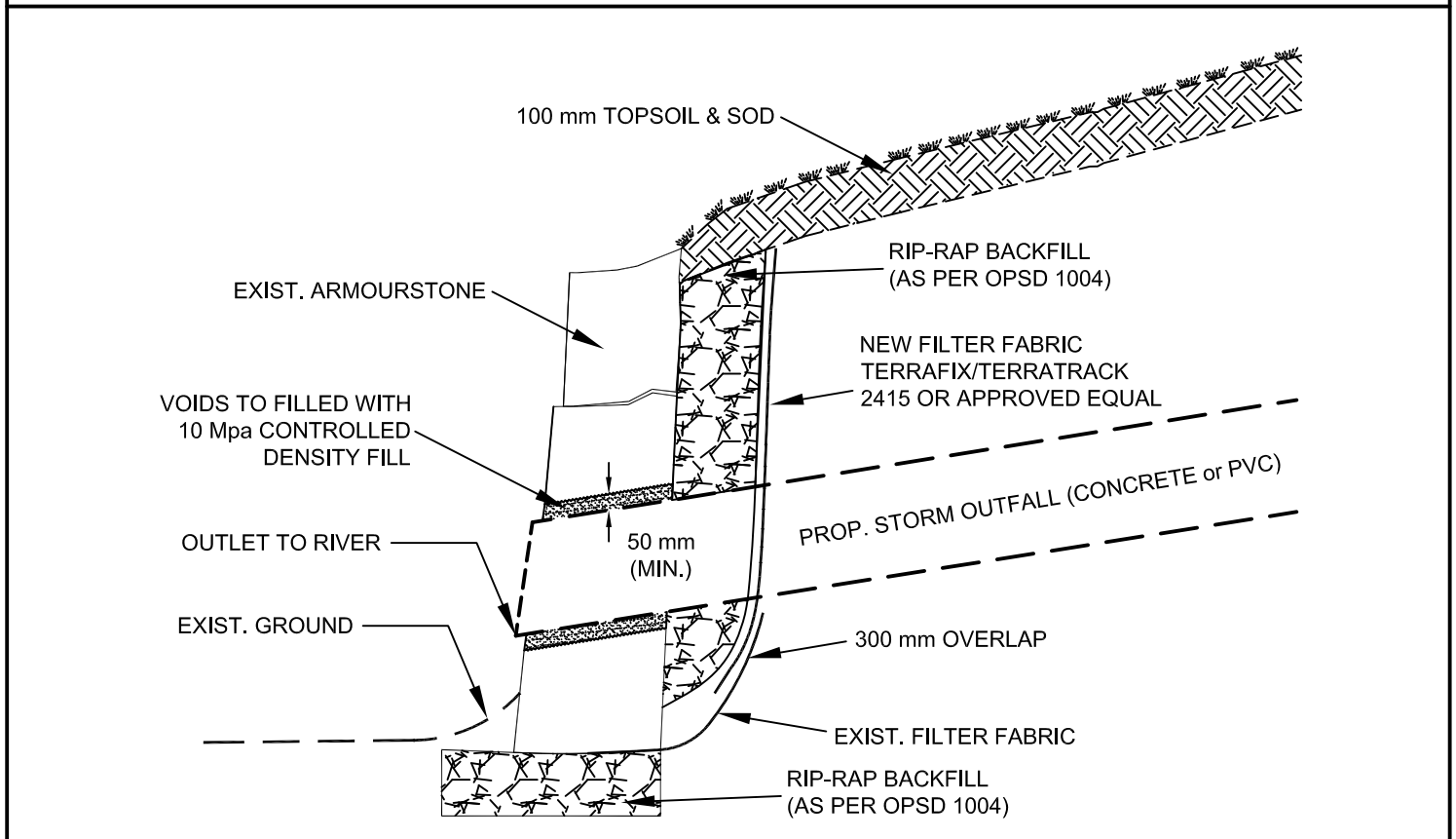
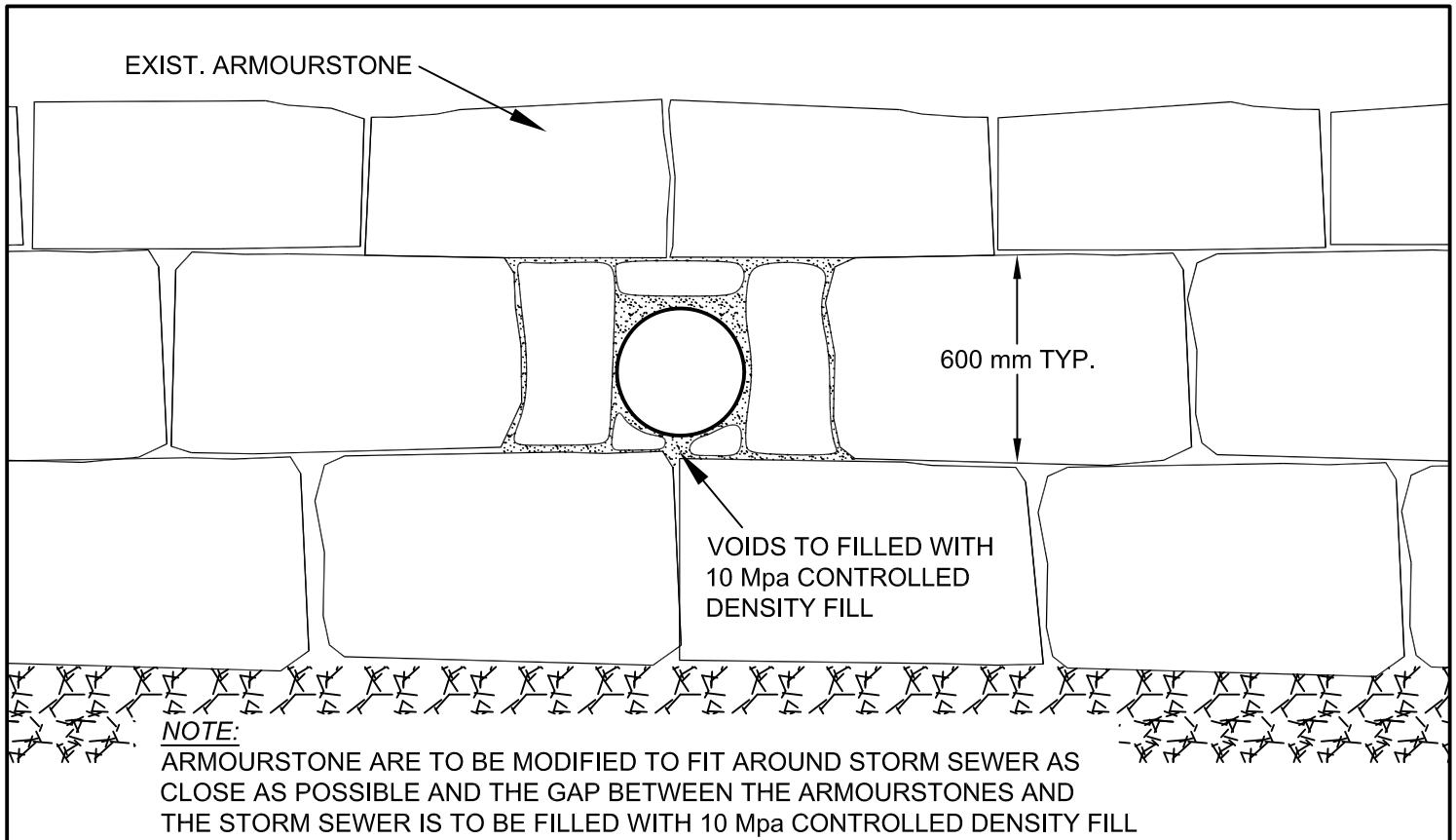


CITY OF STRATFORD STANDARD DRAWING

1800 mm Ø AND GREATER MANHOLE LID SUPPORT

Drawn By: D.E.S.
Date: JULY 2010
Std. Dwg.: 18.2
Approved By:
R.N.





<p>Stratford Dramatically Different! INFRASTRUCTURE AND DEVELOPMENT SERVICES DEPARTMENT</p>	CITY OF STRATFORD STANDARD DRAWING	Drawn By: D.E.S.
	STORM SEWER ARMOURSTONE BANK OUTFALL DETAIL	Date: DEC. 2008
		Stnd. Dwg.: 20
		Approved By: R.N.

1800

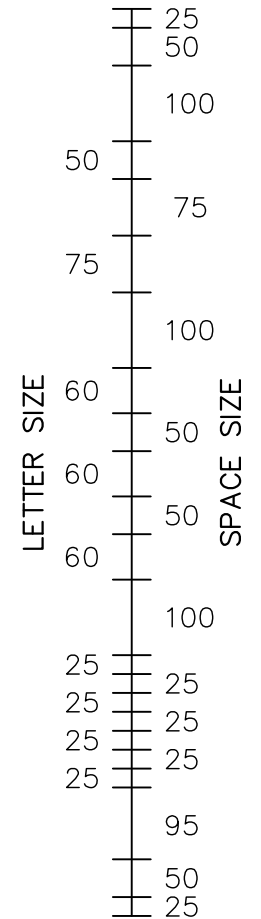
1200

CORPORATION OF THE
 CITY OF STRATFORD
 Southside Storm – Downie Pond
 Earthworks
 Contract 10-9650A

CONSULTING ENGINEER:
 MTE CONSULTANTS INC.
 KITCHENER, ONTARIO
 (519) 749-6500



CONTRACTOR:
 NAME
 ADDRESS
 PHONE



NOTE:

1. SIGN TO BE PAINTED WITH ROYAL BLUE LETTERS AND BORDERS.
2. SIGN TO BE SUPPLIED AND MOUNTED BY THE CONTRACTOR.
3. SIGN TO BE MOUNTED ON 100mm x 100mm WOOD POSTS WITH SUITABLE FRAMING. POSTS TO BE SUPPLIED AND INSTALLED BY THE CONTRACTOR.
4. SIGN TO BE CONSTRUCTED OF 20mm THICK PLYWOOD TO THE DIMENSIONS SHOWN.

CITY OF STRATFORD STANDARD DRAWING

Drawn By: D.E.S.

**CITY OF STRATFORD
 RECONSTRUCTION
 PROJECT SIGN**

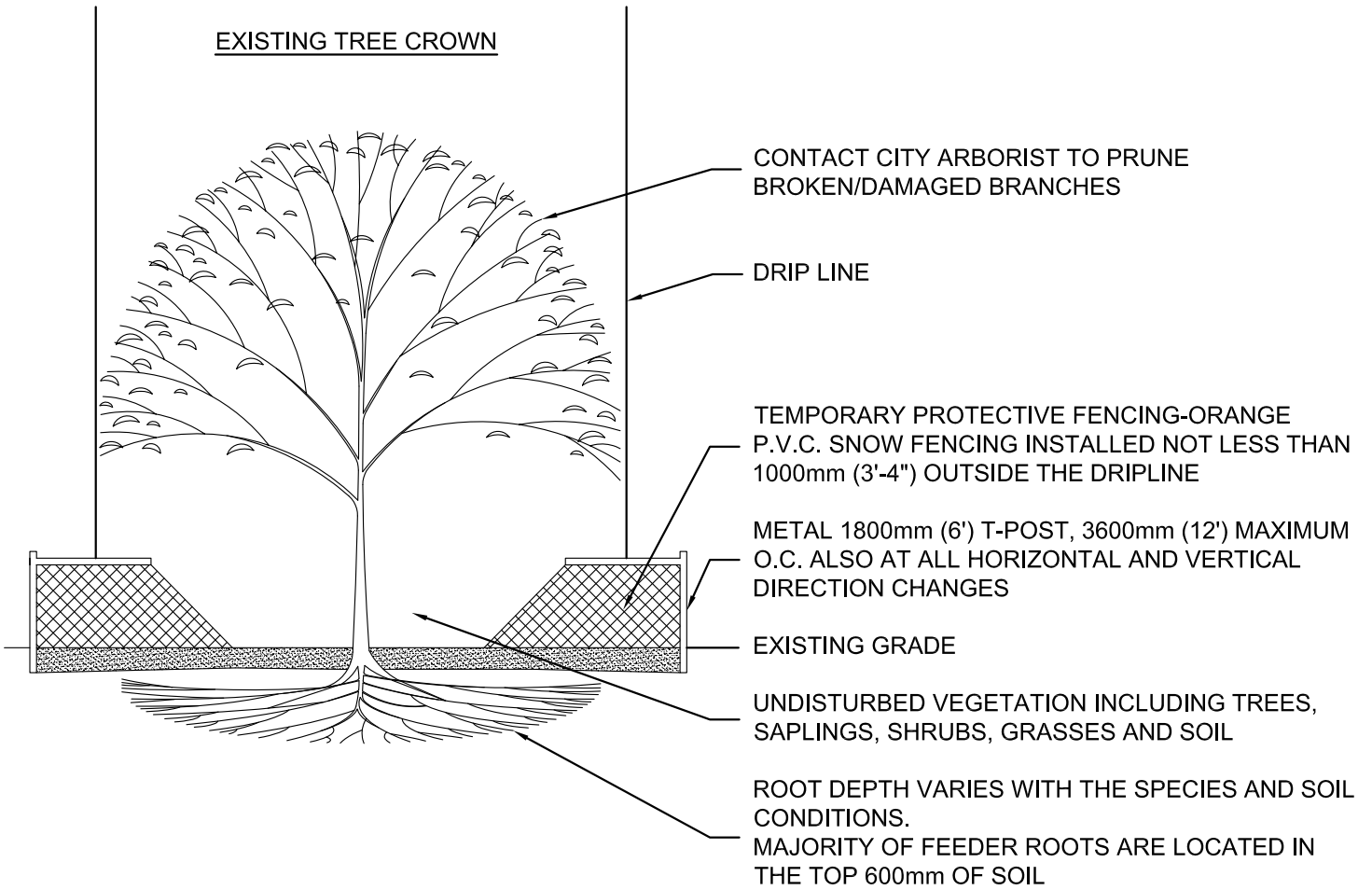
Date: MARCH, 2006

Standard Dwg. No. : **21**

Approved By:

J.M.





SPECIFICATIONS:

1. EXISTING TREES ARE TO BE PROTECTED FROM CONSTRUCTION WITH THE INSTALLATION OF A 1200mm (4') HIGH SNOW FENCE, AT NOT LESS THAN 100 mm (3'-4") FROM THE EXISTING DRIPLINE, HELD IN PLACE WITH 1800mm (6') T-BAR OR AS DIRECTED BY ENGINEER
2. THE BARRIER IS TO BE INSTALLED PRIOR TO ANY CONSTRUCTION AND MUST REMAIN IN PLACE UNTIL ALL CONSTRUCTION IS COMPLETED
3. NO MOVEMENT OF EQUIPMENT, STORAGE OF BUILDING SUPPLIES, CLEANING OF EQUIPMENT OR DUMPING OF SOLVENTS, GASOLINE, ETC. MAY OCCUR WITHIN THIS FENCE LINE

TEMPORARY TREE PROTECTION - N.T.S.



CITY OF STRATFORD STANDARD DRAWING

TEMPORARY TREE PROTECTION

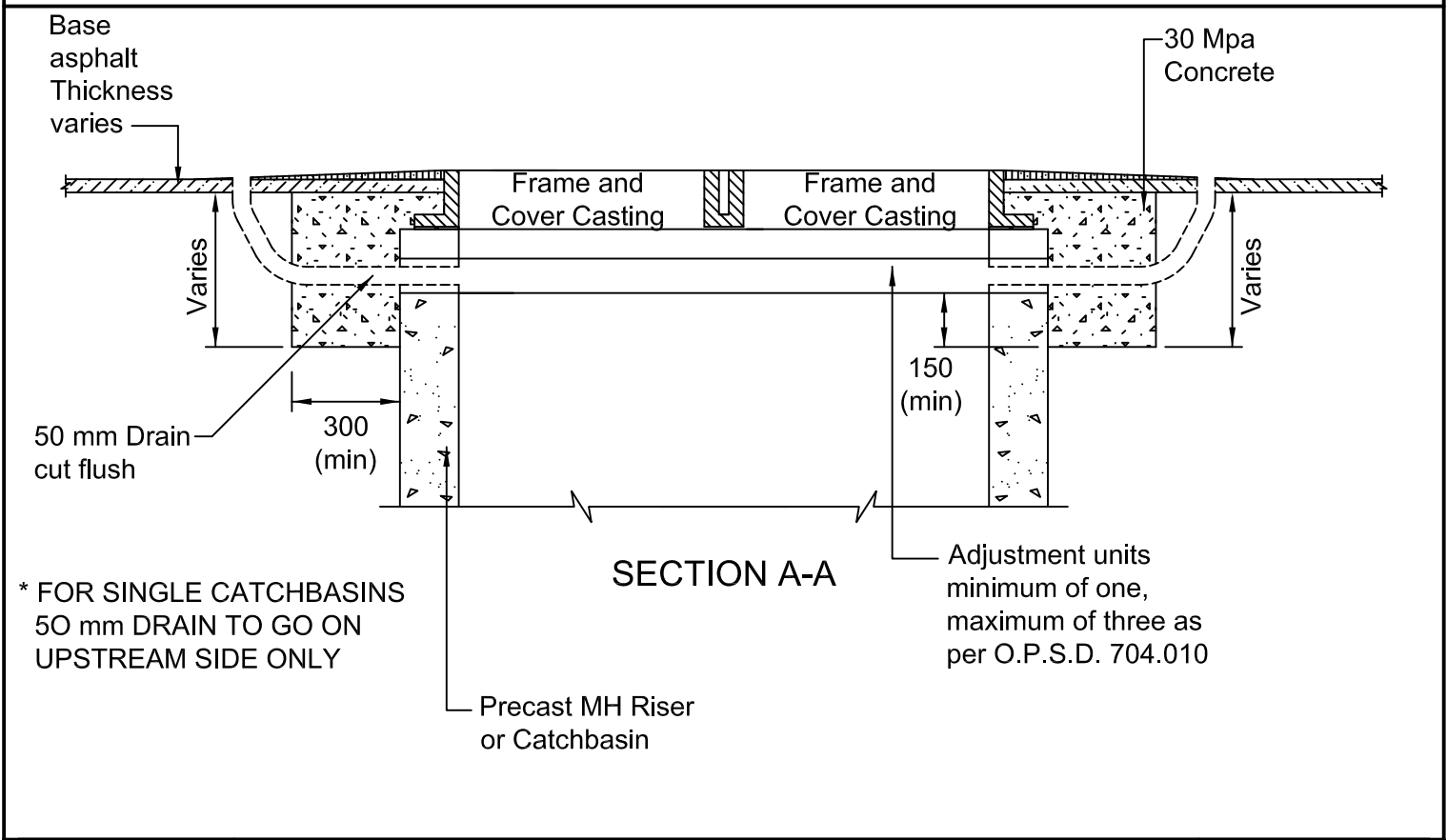
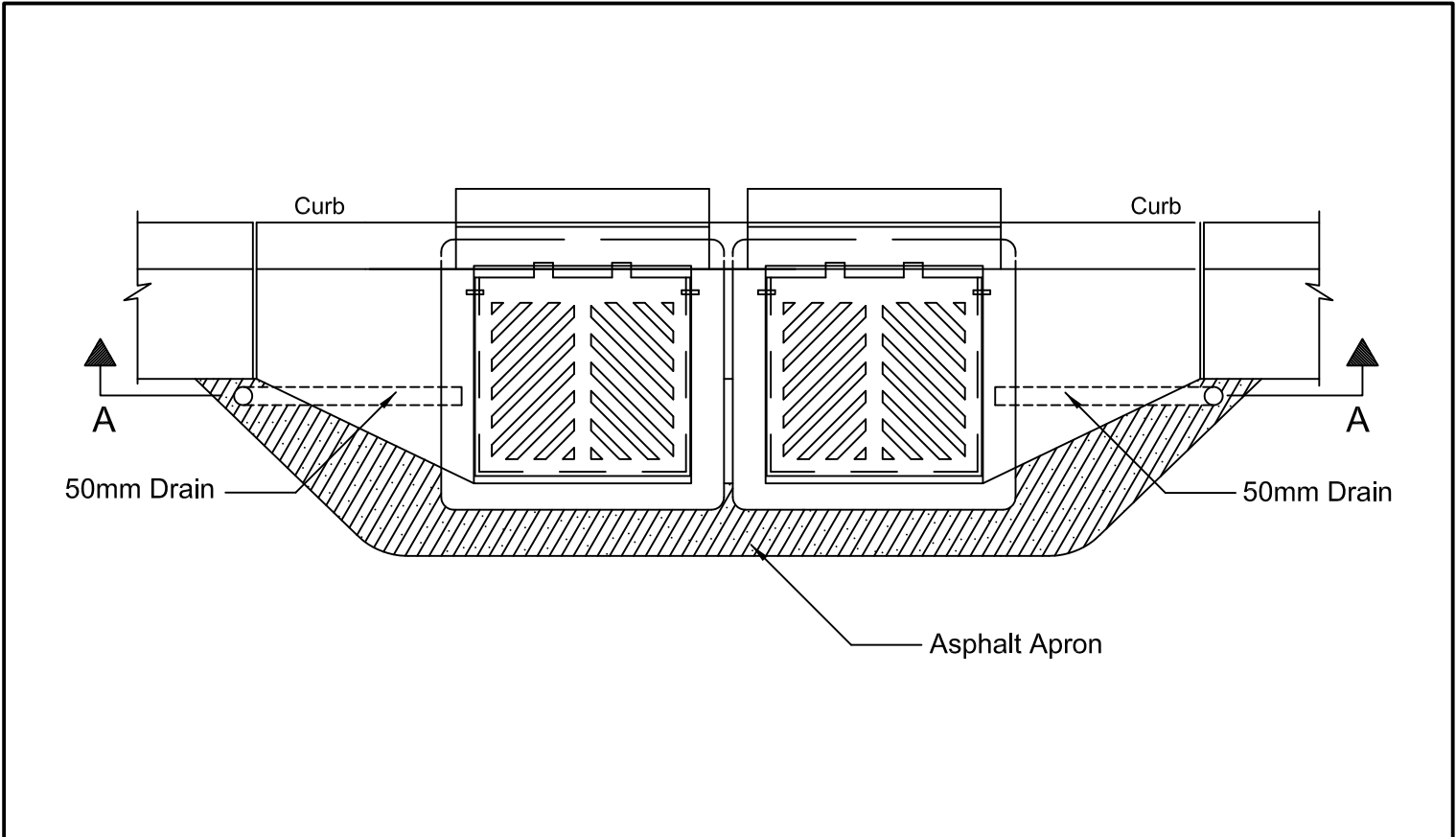
Drawn By: D.E.S.

Date: DEC 2008

Std. Dwg.: **22**

Approved By:

R.N.



* FOR SINGLE CATCHBASINS
50 mm DRAIN TO GO ON
UPSTREAM SIDE ONLY



CITY OF STRATFORD STANDARD DRAWING

**TEMPORARY DRAINS
FOR CATCHBASINS**

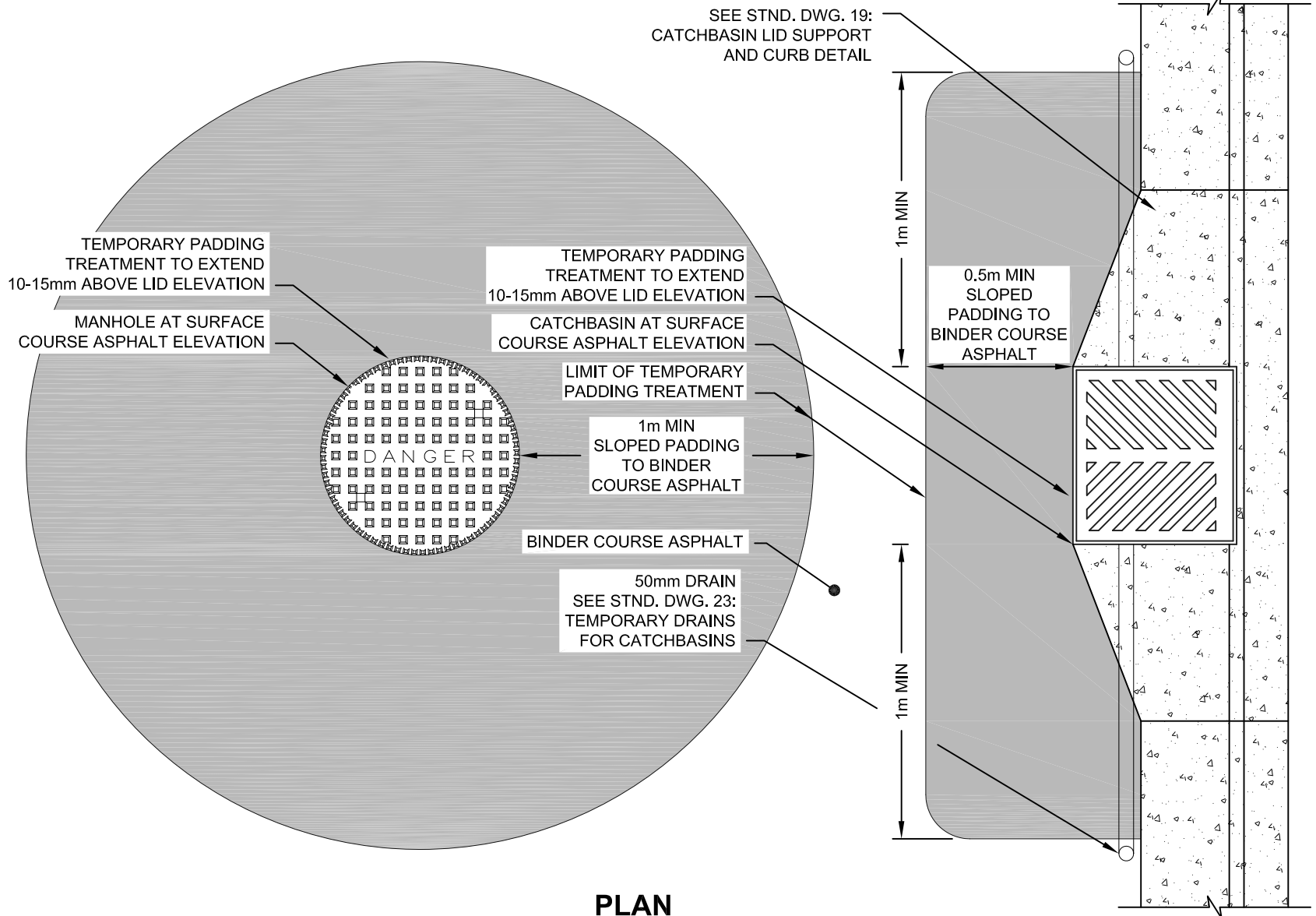
Drawn By: D.E.S.

Date: MARCH 2008

Std. Dwg.: **23**

Approved By:

R.N.



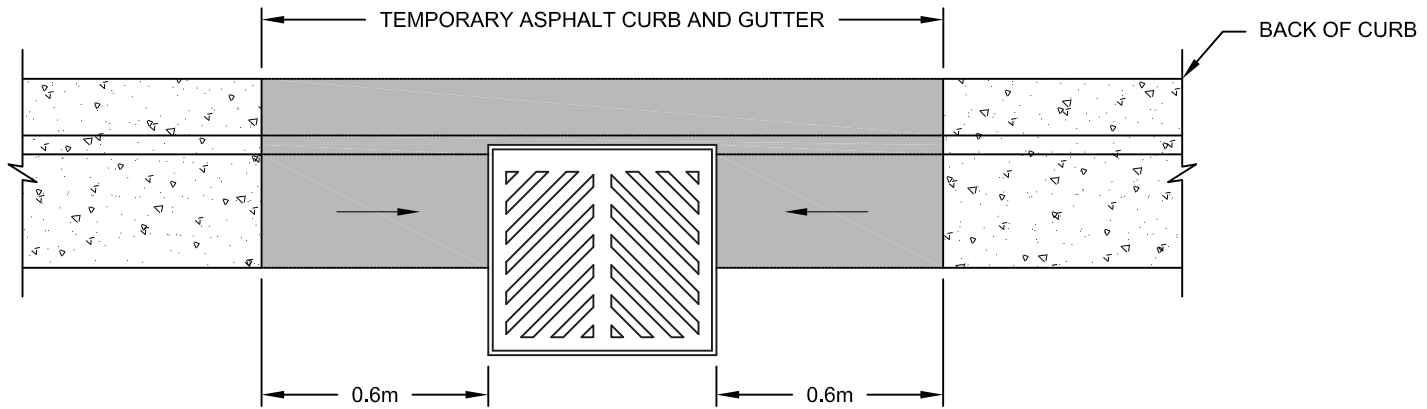
PLAN

CITY OF STRATFORD STANDARD DRAWING

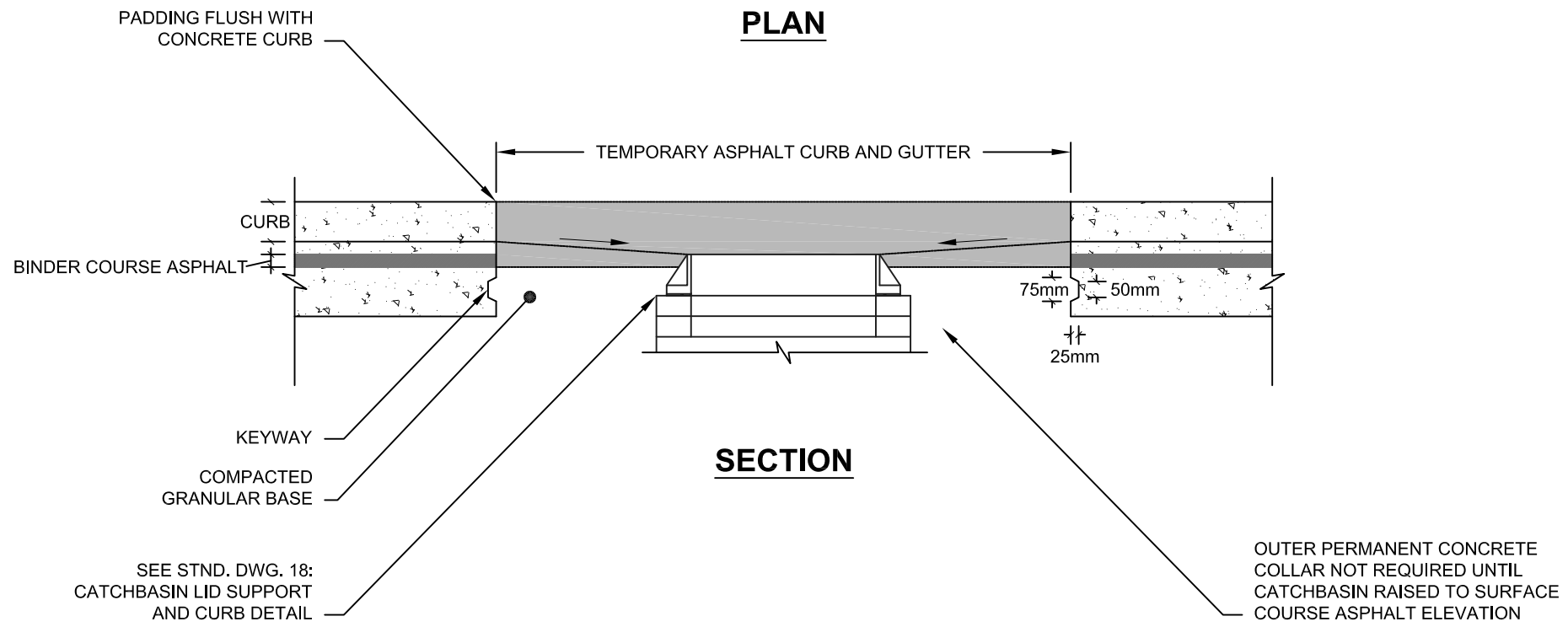
**TEMPORARY PADDING TREATMENT
MH & CB AT SURFACE COURSE
ASPHALT ELEVATION**



Drawn By: T.J.	Scale: 1:20
Date: JUNE 2007	
Revision:	Standard Drawing No. 24
Reviewed By: N.R.	



PLAN



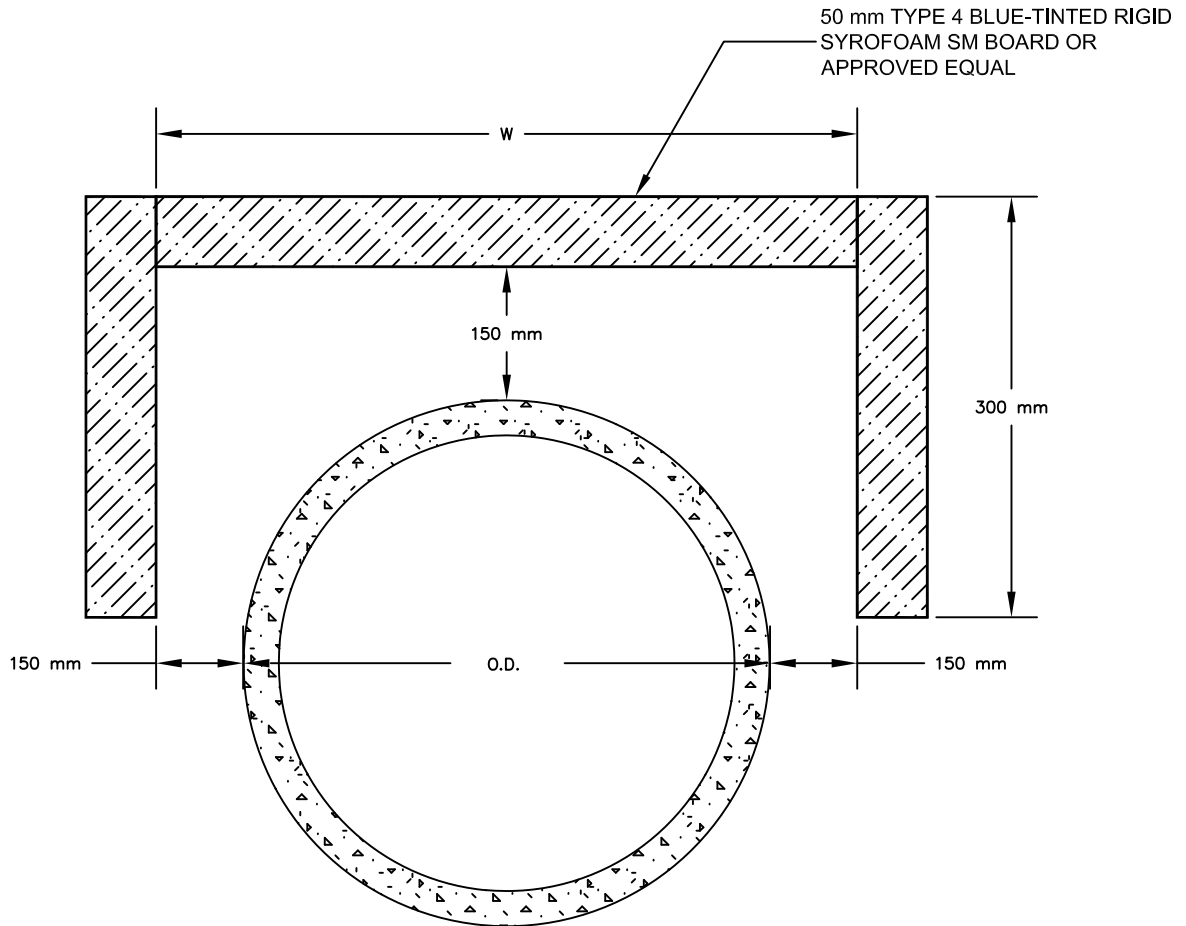
SECTION



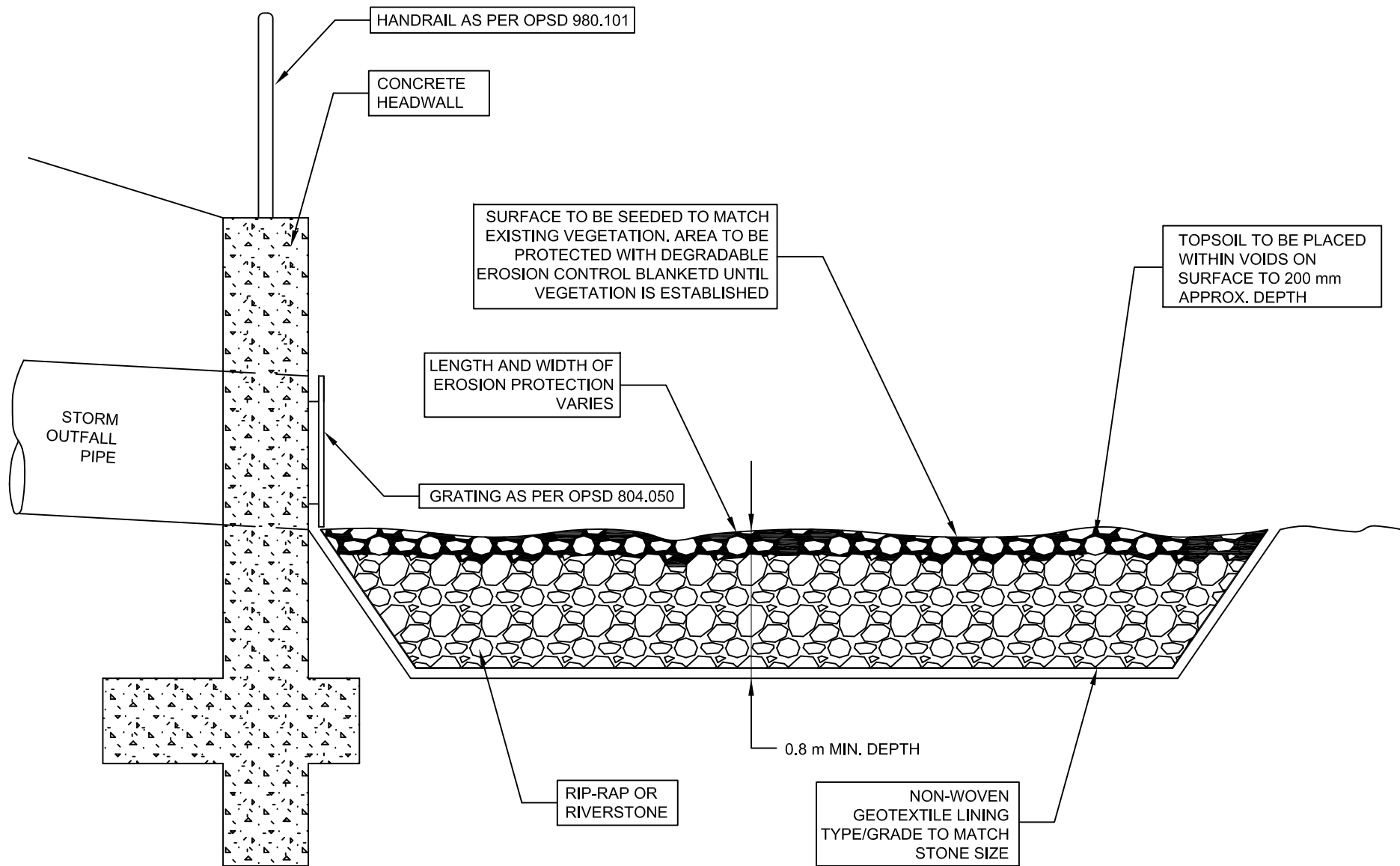
CITY OF STRATFORD STANDARD DRAWING

**TEMPORARY ASPHALT CURB AND GUTTER
CATCHBASIN AT BINDER COURSE
ASPHALT ELEVATION**

Drawn By: T.J.	Scale: 1:20
Date: JUNE 2007	
Revision:	Standard Drawing No. 25
Reviewed By: N.R.	



W = INSULATION WIDTH
 O.D. = OUTSIDE DIAMETER OF PIPE



CITY OF STRATFORD STANDARD DRAWING

**OUTLET EROSION PROTECTION
TYPICAL DETAIL**

Drawn By: D.E.S.

Date: MAR. 2008

Revision:

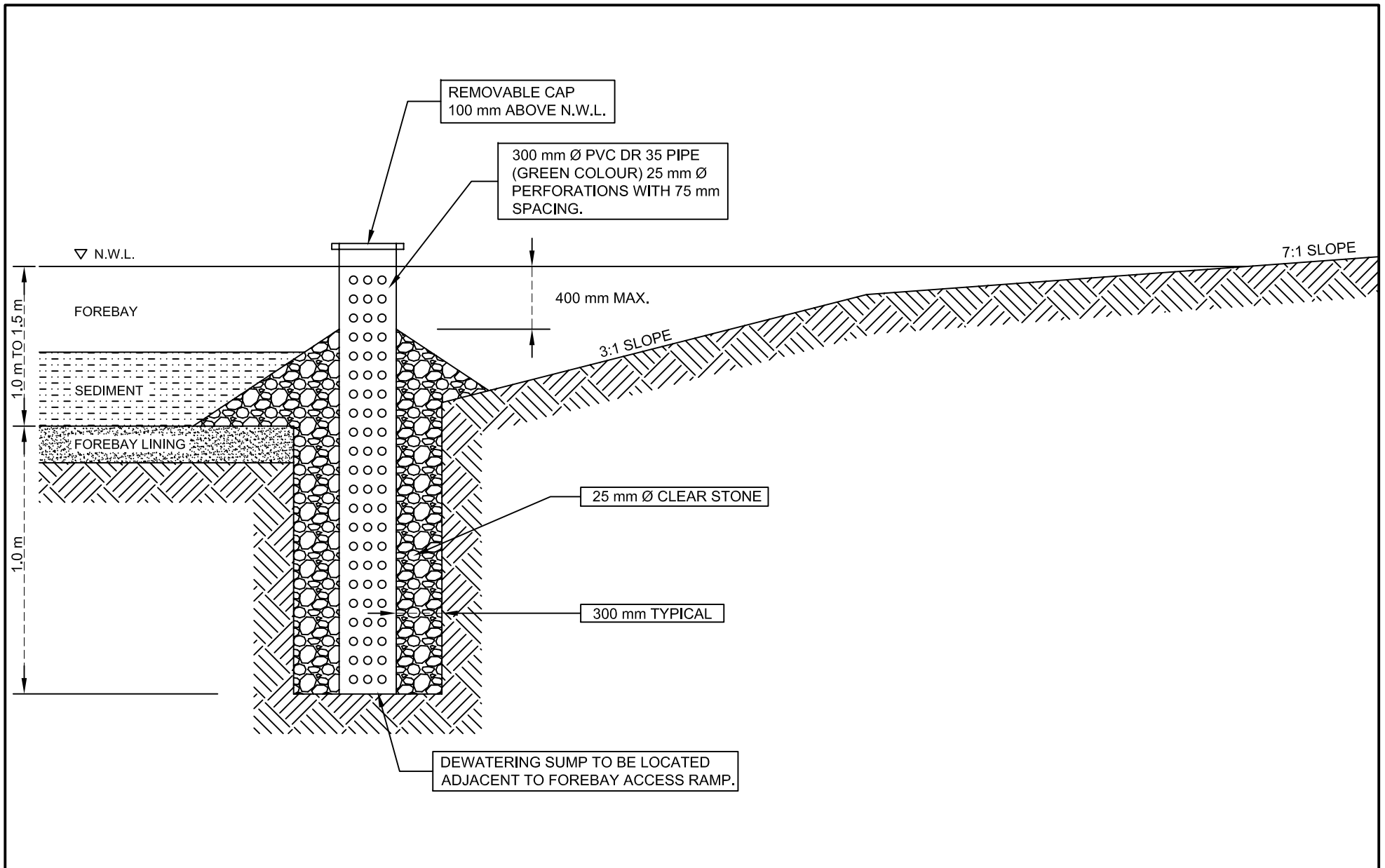
Reviewed By:

N.R.

Scale:
N.T.S.

Standard
Drawing No.
27





CITY OF STRATFORD STANDARD DRAWING

**FOREBAY DEWATERING SUMP
TYPICAL DETAIL**

Drawn By: D.E.S.

Date: MAR. 2008

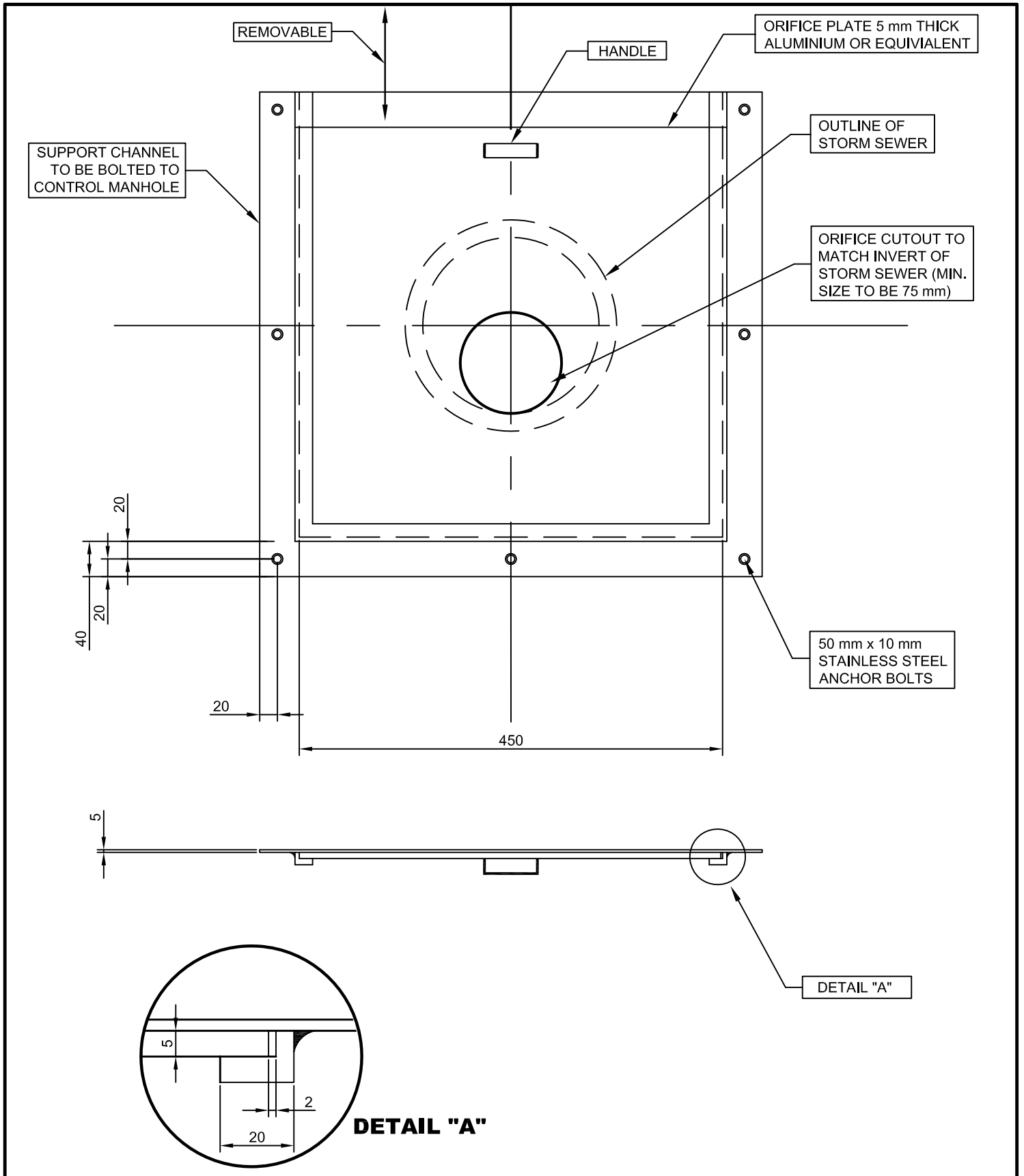
Revision:

Reviewed By:

N.R.

Scale:
N.T.S.

Standard
Drawing No.
28



	CITY OF STRATFORD STANDARD DRAWING		Drawn By: D.E.S.
	REMOVABLE ORIFICE PLATE FOR MUNICIPAL FACILITY		Date: MAR. 2008
			Std. Dwg.: 29
			Approved By:
			N.R.



Data Recorded by:

Owner
Consultant
Location

Forebay Permanent Pool Volume m3
Main Cell Permanent Pool Volume m3

Period	Location	Inspection Date	Staff Gauge (m)	Sediment Depth Measurements					Average Depth (m)	Sediment Volume (m3)	% Permanent Pool Vol. (%)	Outlet Structure note any debris or blockages	Note Remedial Works Required
				1 (m)	2 (m)	3 (m)	4 (m)	5 (m)					
Month 1	Forebay												
Month 2	Forebay												
Month 3	Forebay												
Month 4	Forebay												
Month 5	Forebay												
Month 6	Forebay												
Month 7	Forebay												
Month 8	Forebay												
Month 9	Forebay												
Year 1	Main Cell												
Month 1	Forebay												
Month 2	Forebay												
Month 3	Forebay												
Month 4	Forebay												
Month 5	Forebay												
Month 6	Forebay												
Month 7	Forebay												
Month 8	Forebay												
Month 9	Forebay												
Year 2	Main Cell												
Month 1	Forebay												
Month 2	Forebay												
Month 3	Forebay												
Month 4	Forebay												
Month 5	Forebay												
Month 6	Forebay												
Month 7	Forebay												
Month 8	Forebay												
Month 9	Forebay												
Year 3	Main Cell												
Month 1	Forebay												
Month 2	Forebay												
Month 3	Forebay												
Month 4	Forebay												
Month 5	Forebay												
Month 6	Forebay												
Month 7	Forebay												
Month 8	Forebay												
Month 9	Forebay												
Year 4	Main Cell												



CITY OF STRATFORD STANDARD DRAWING

S.W.M. FACILITY INSPECTION SHEET

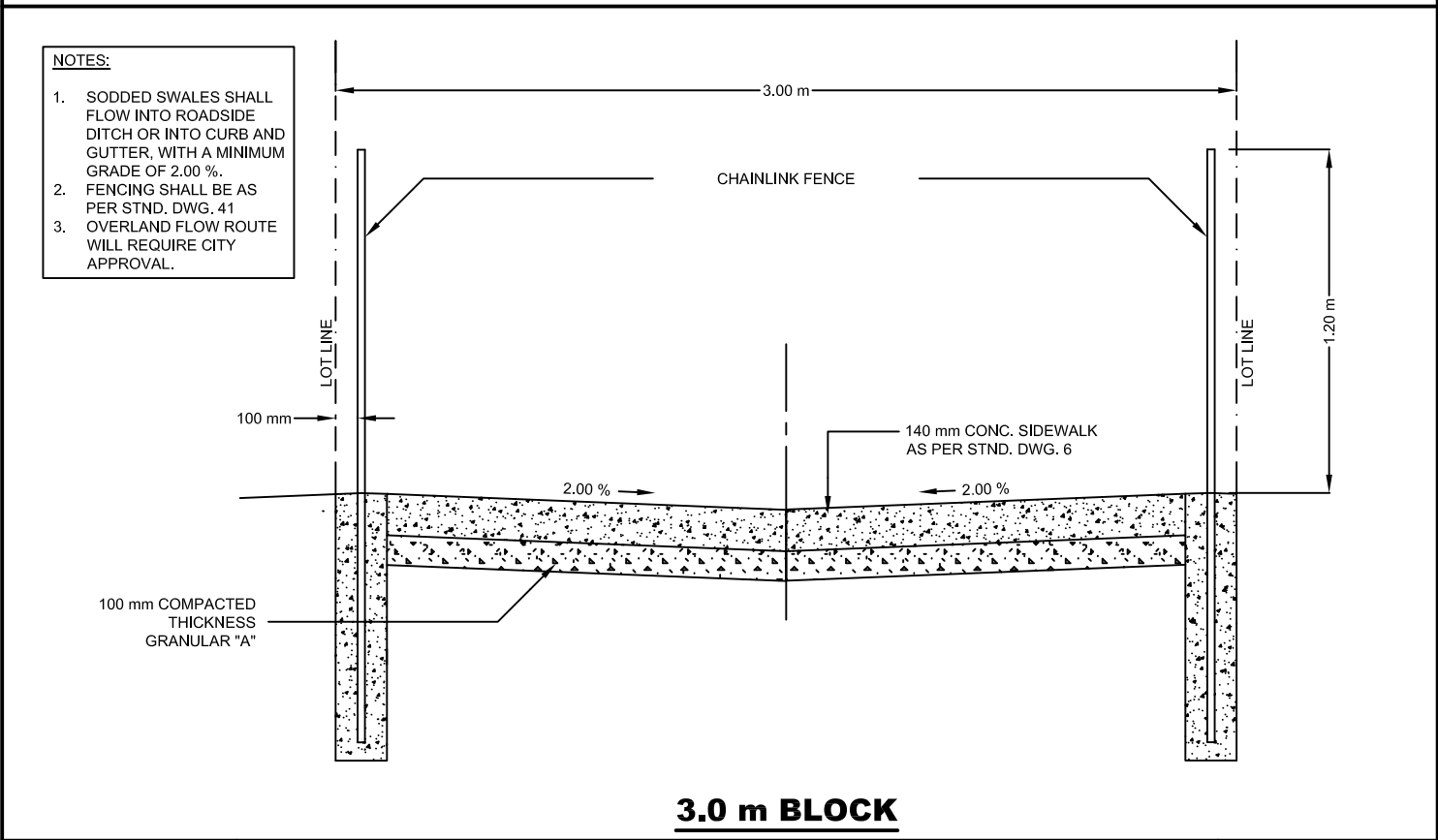
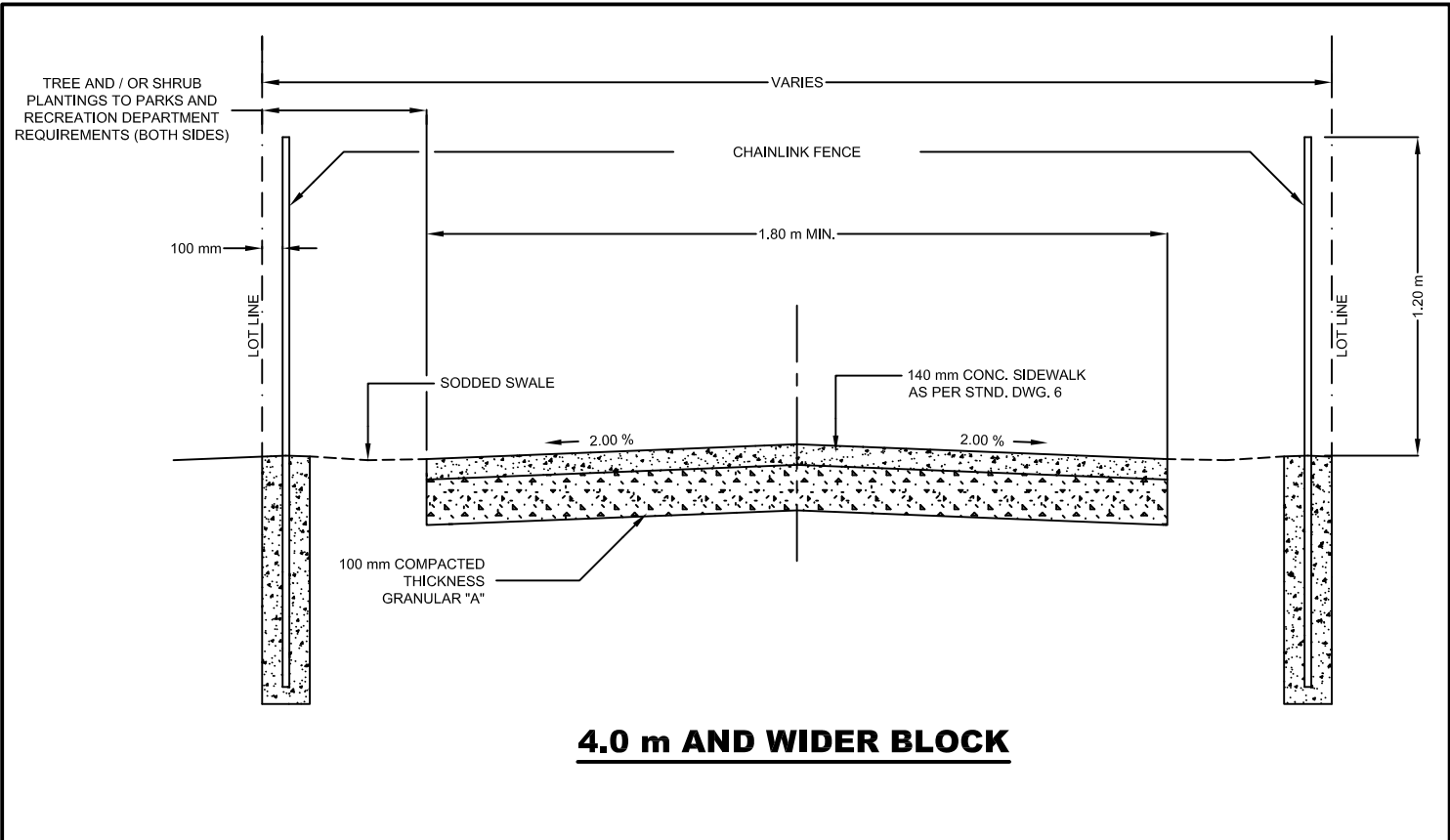
Drawn By: D.E.S.

Date: MAR. 2008

Std. Dwg.: 30

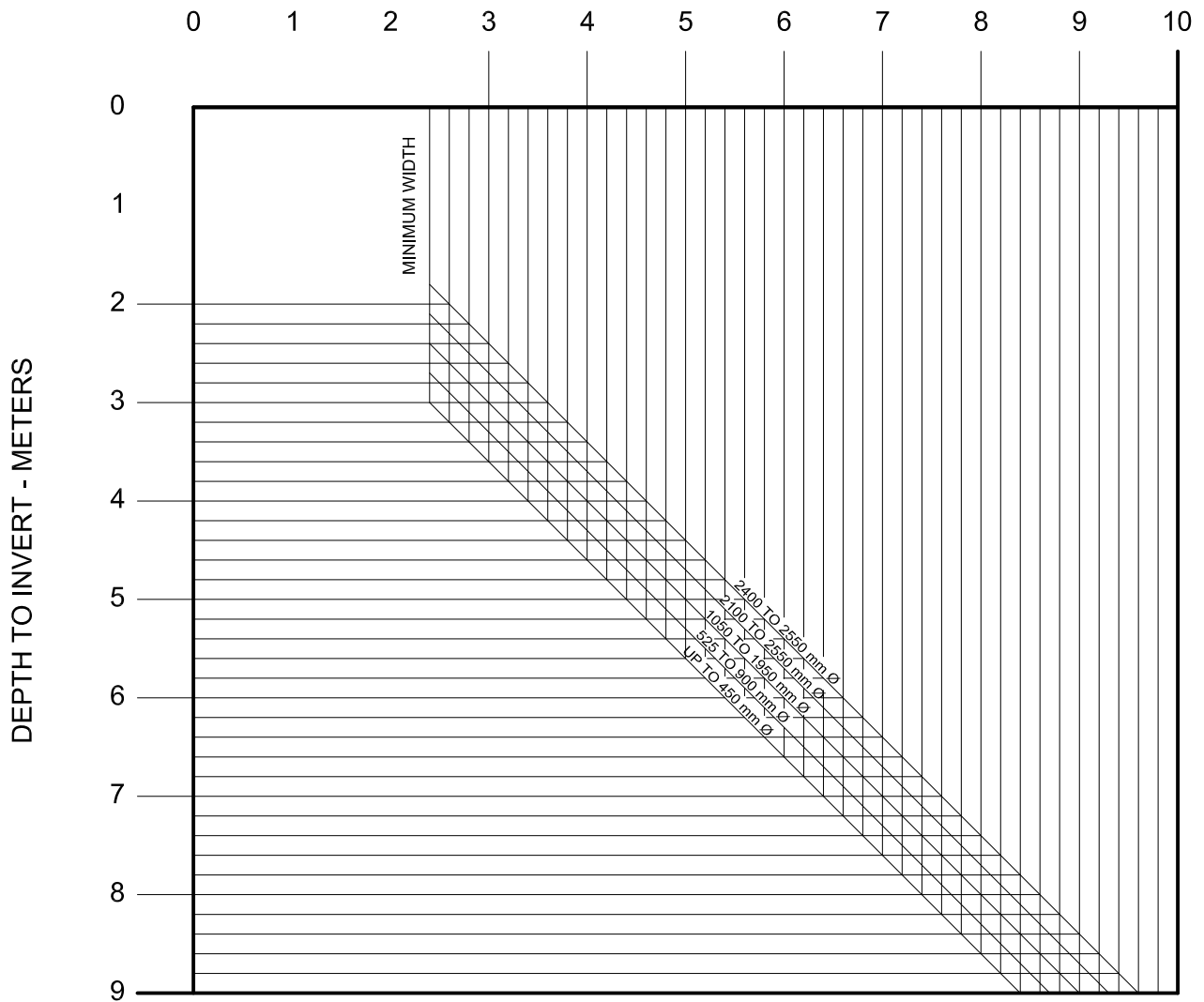
Approved By:

N.R.



	CITY OF STRATFORD STANDARD DRAWING		Drawn By: D.E.S.
	PEDESTRIAN WALKWAYS		Date: MAR, 2016
			Std. Dwg.: 31
			Approved By:
			N.R.

MINIMUM WIDTH OF EASEMENT - FROM C/L OF SEWER - METERS



NOTES:

1. MINIMUM EASEMENT WIDTH MEASURED FROM C/L OF SEWER PIPE EG: 675 mm Ø SEWER WITH INVERT 3.9 m BELOW FINISHED SURFACE ELEVATION - WIDTH OF EASEMENT REQUIRED = 3.6 m EACH SIDE OR A TOTAL WIDTH OF 7.2 m.
2. THROUGH FIELDS, OPENSOURCE, ETC., 9.1 m min. - 3.0 m ON ONE SIDE OF SEWER C/L AND 6.1 m ON THE OTHER, OR AT LEAST 3.0 m WIDER THAN THE MINIMUM WIDTH OBTAINED FROM THIS CHART. AS REQUIRED BY THE CITY ENGINEER.



CITY OF STRATFORD STANDARD DRAWING

MINIMUM EASEMENT WIDTH

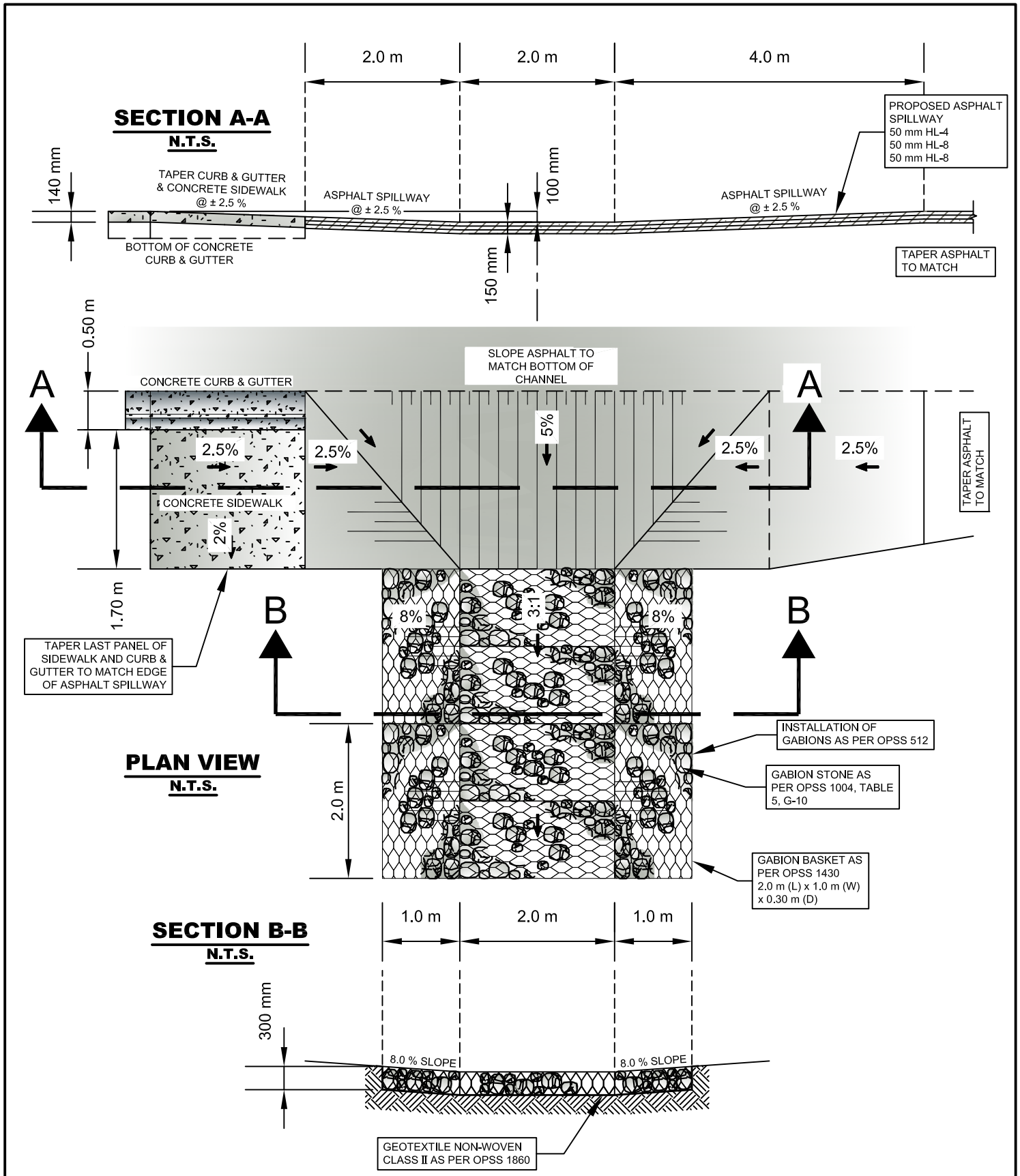
Drawn By: D.E.S.

Date: OCT. 2008

Std. Dwg.: 32

Approved By:

N.R.



CITY OF STRATFORD STANDARD DRAWING

ASPHALT GABION SPILLWAY DETAIL

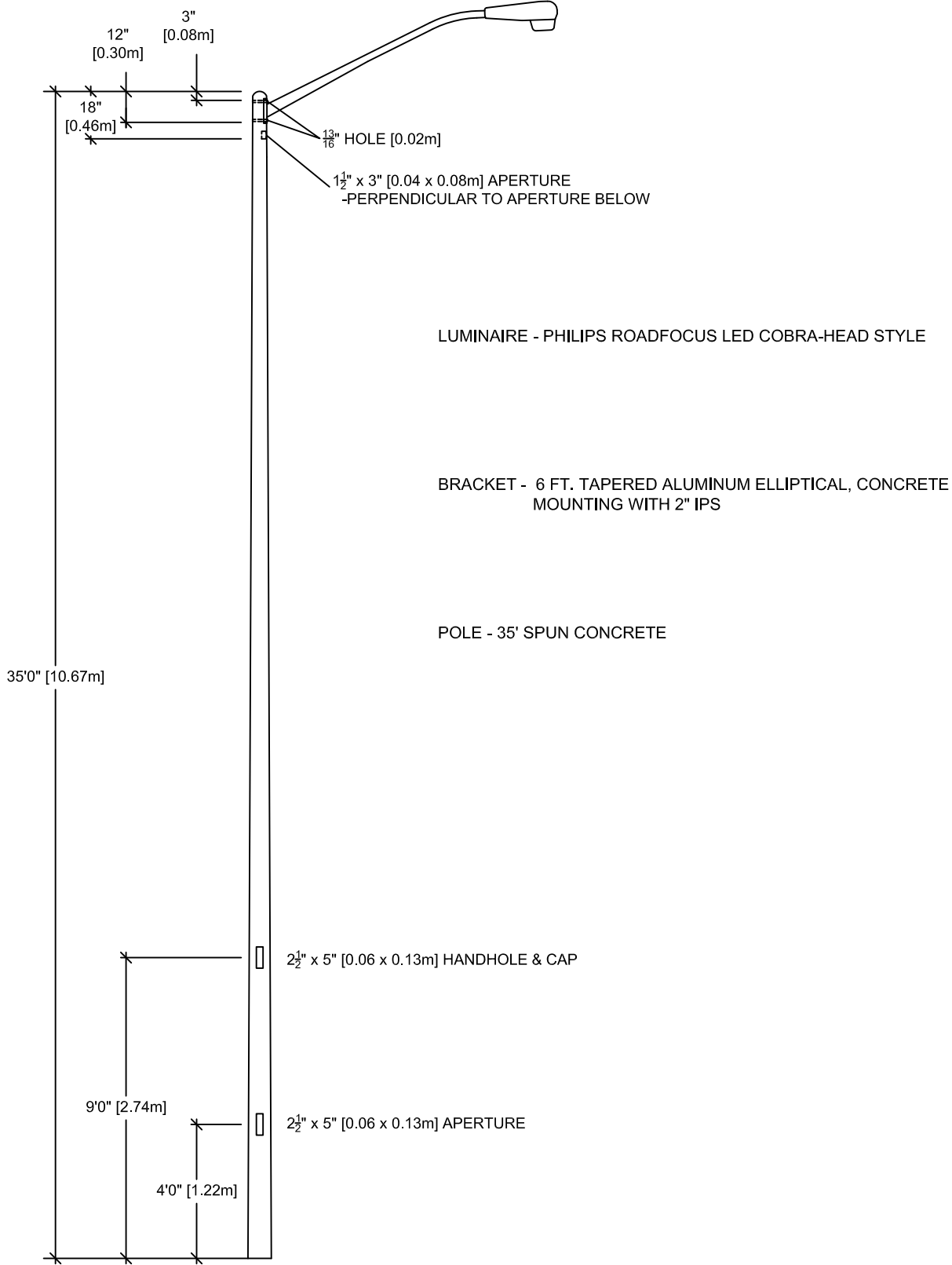
Drawn By: D.E.S.

Date: JAN. 2009

Std. Dwg: **33**

Approved By:

R.N.



NOTE: TO BE BACKFILLED WITH STONE DUST



CITY OF STRATFORD STANDARD DRAWING

STREET LIGHTING STANDARD FOR COLLECTOR ROADS

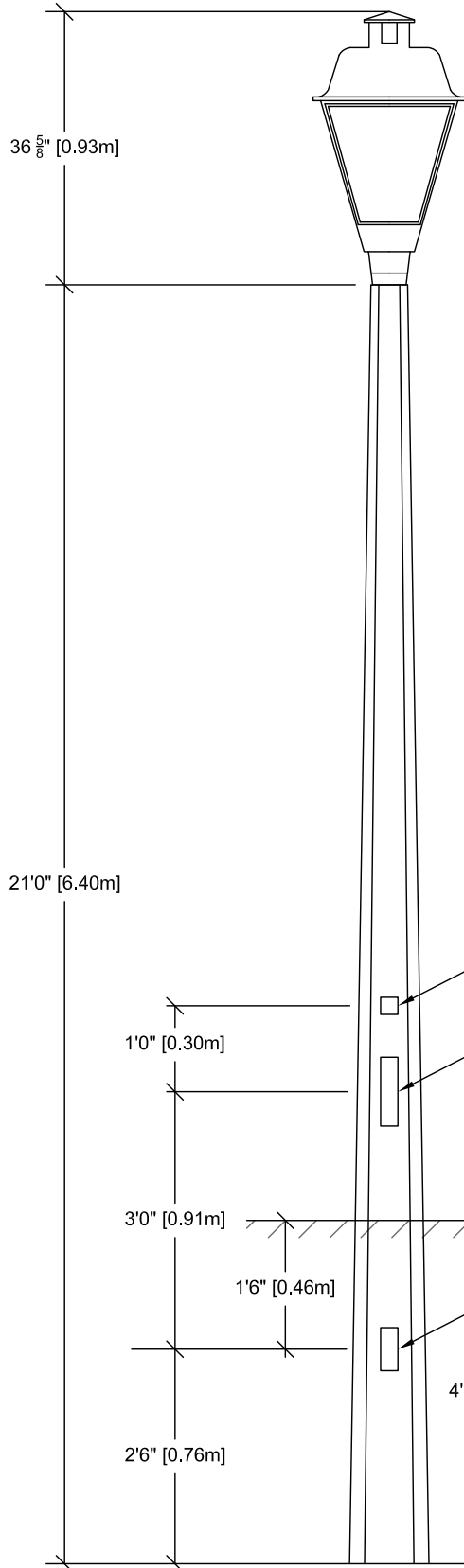
Drawn By: D.E.S.

Date: APR. 2016

Std. Dwg.: **34**

Approved By:

N.R.



LUMINAIRE SPECIFICATIONS

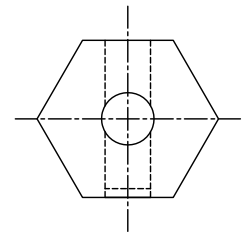
CATALOGUE NO.: K601-T-P4NL-III-75(SSL)
 -7030-120:277V-F4-PR
 MOUNTING TYPE: TENON MOUNT
 OPTICAL DESIGN: FLAT ARRAY, NO LENS
 IES CLASS: TYPE III
 INPUT WATTAGE: 75W (7030 SERIES)
 CCT/DIODE: 4000K/HE5
 LIGHT SOURCE: SOLID STATE LIGHTING
 LINE VOLTAGE: 120:277V
 PAINT: TEXTURED BLACK
 OPTIONS: C/W F4 FINIAL TWISTLOCK RECEPTACLE
 (PHOTO-EYE BY OTHERS)

POLE SPECIFICATIONS

CATALOGUE NO.: E210-APH-G-E11
 C/W 140-35/35
 SECTION: HEXAGONAL
 COLOUR: ECLIPSE
 FINISH: POLISHED
 POLE TOP: 4" FL/FL
 POLE BUTT: 8" FL/FL
 POLE LENGTH: 21' 0"
 APPROX. WEIGHT: 700 lbs.
 MIN. RACEWAY: 1 1/8" Ø

COATINGS REQUIRED:

-2 COATS ACRYLIC FULL LENGTH



TOP VIEW
 NAMEPLATE H.H. BOX
 THRU APERTURE

NAMEPLATE

1'0" [0.30m]

2 5/8" x 8" [0.06 x 0.20m] RECESSED ZINC
 H.H. BOX & COVER PLATE
 C/W #6 COPPER GROUND WIRE X 18"L
 AND ROBERTSON SCREWS

3'0" [0.91m] GROUND

1'6" [0.46m]

2 1/2" x 5" [0.06 x 0.13m] WIRING APERTURE
 BOTH SIDES

4'0" [1.22m]

2'6" [0.76m]

NOTE: TO BE BACKFILLED WITH STONE DUST



CITY OF STRATFORD STANDARD DRAWING

**STREET LIGHTING STANDARD
 FOR LOCAL ROADS**

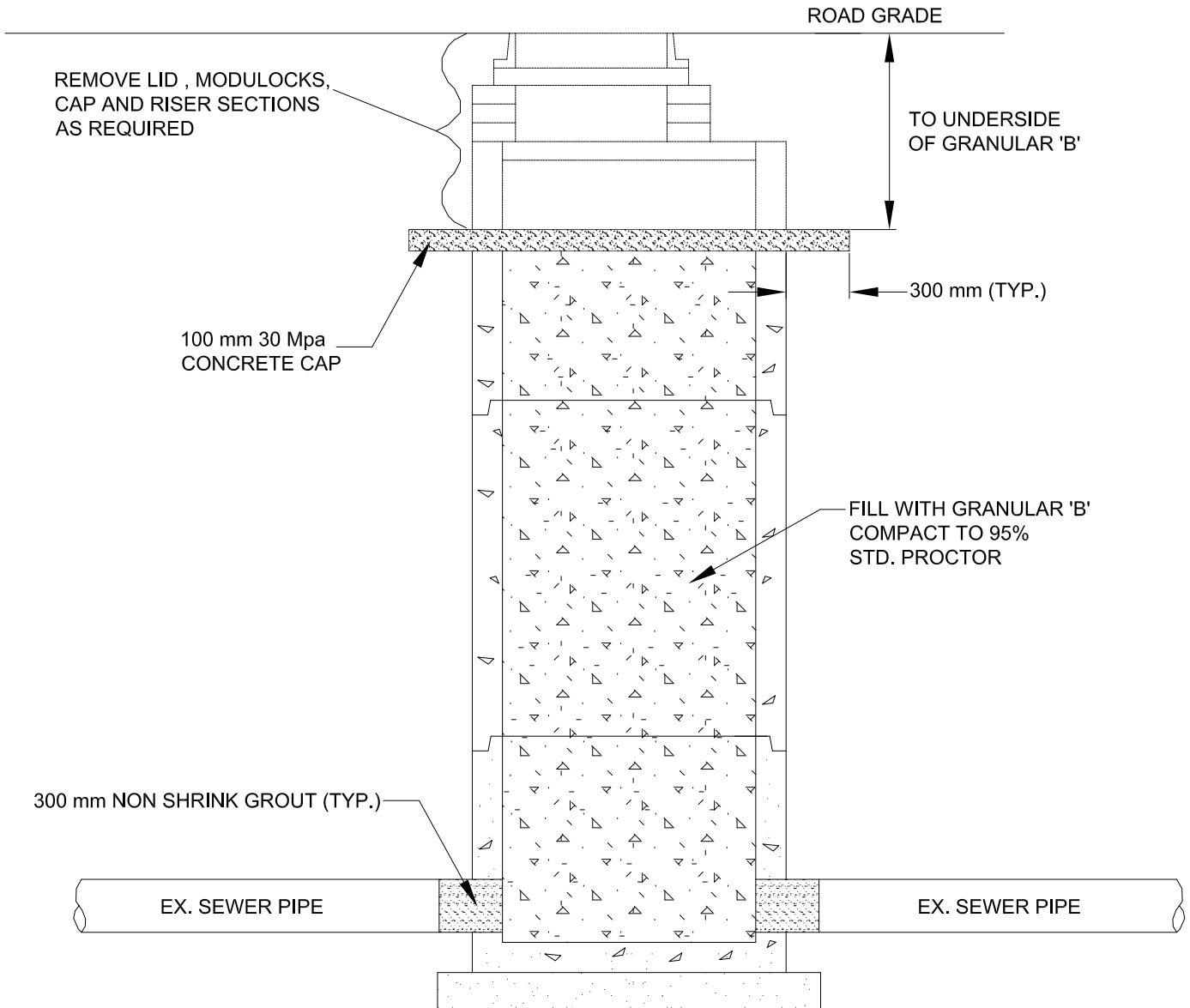
Drawn By: S.Mc.

Date: JAN. 2021

Std. Dwg.: **35**

Approved By:

N.R.



CITY OF STRATFORD STANDARD DRAWING

MAINTENANCE HOLE ABANDONMENT

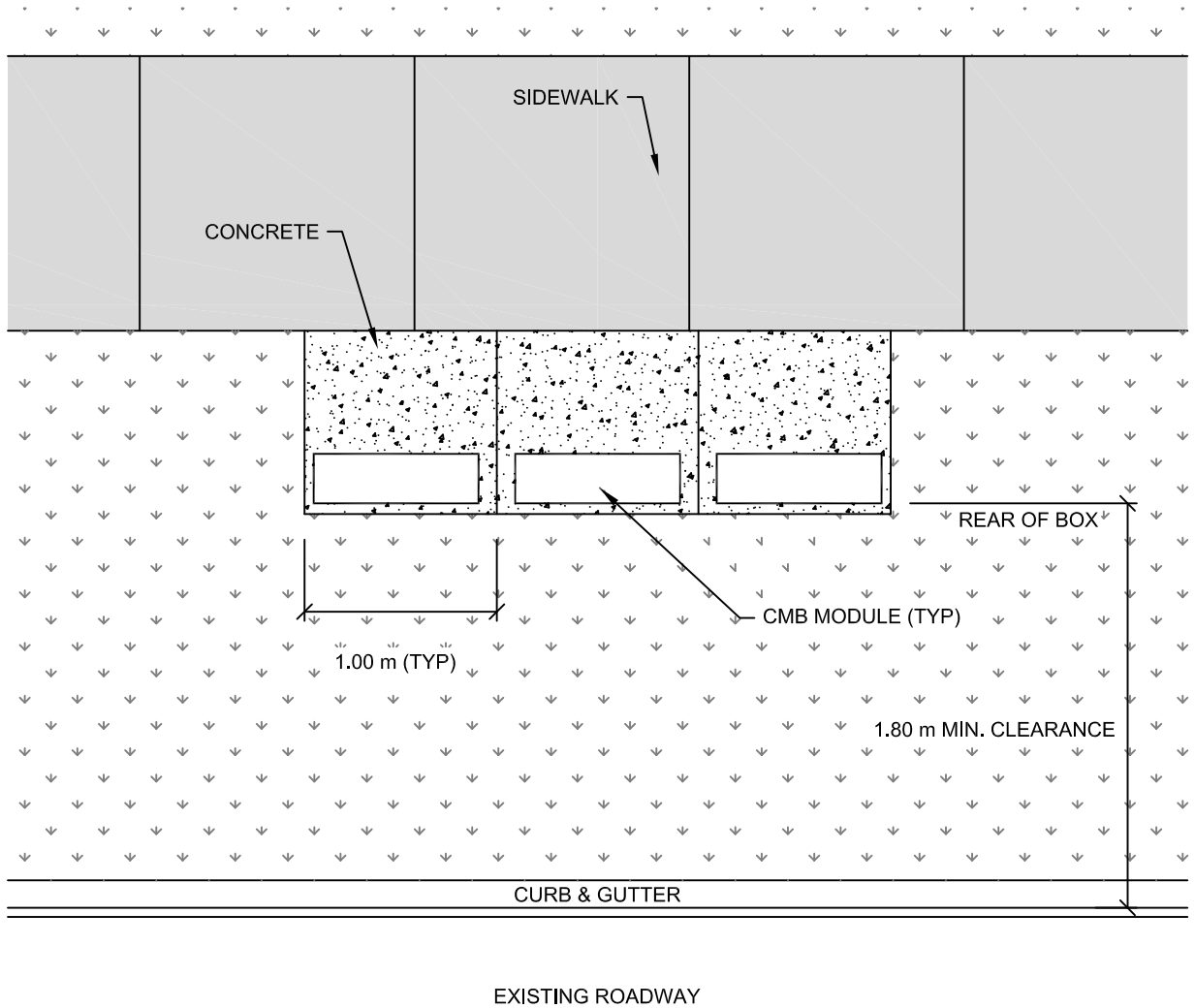
Drawn By: D.E.S.

Date: APR. 2009

Std. Dwg.: **36**

Approved By:

R.N.



NOTES:

1. ALL UNDERGROUND UTILITIES TO BE LOCATED BEFORE ANY EXCAVATION IS PERMITTED. IN THE EVENT OF ANY UTILITIES PRESENT, GUIDANCE MUST BE FOLLOWED.
2. ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE STATED.
3. DRAINAGE MUST BE DIRECTED AWAY FROM ACCESS AND PAD. WATER CAN NOT POOL AT SITE.
4. MAILBOX INSTALLATION AS PER CANADA POST STANDARDS.



CITY OF STRATFORD STANDARD DRAWING

**COMMUNITY MAILBOX
(CMB) DETAIL**

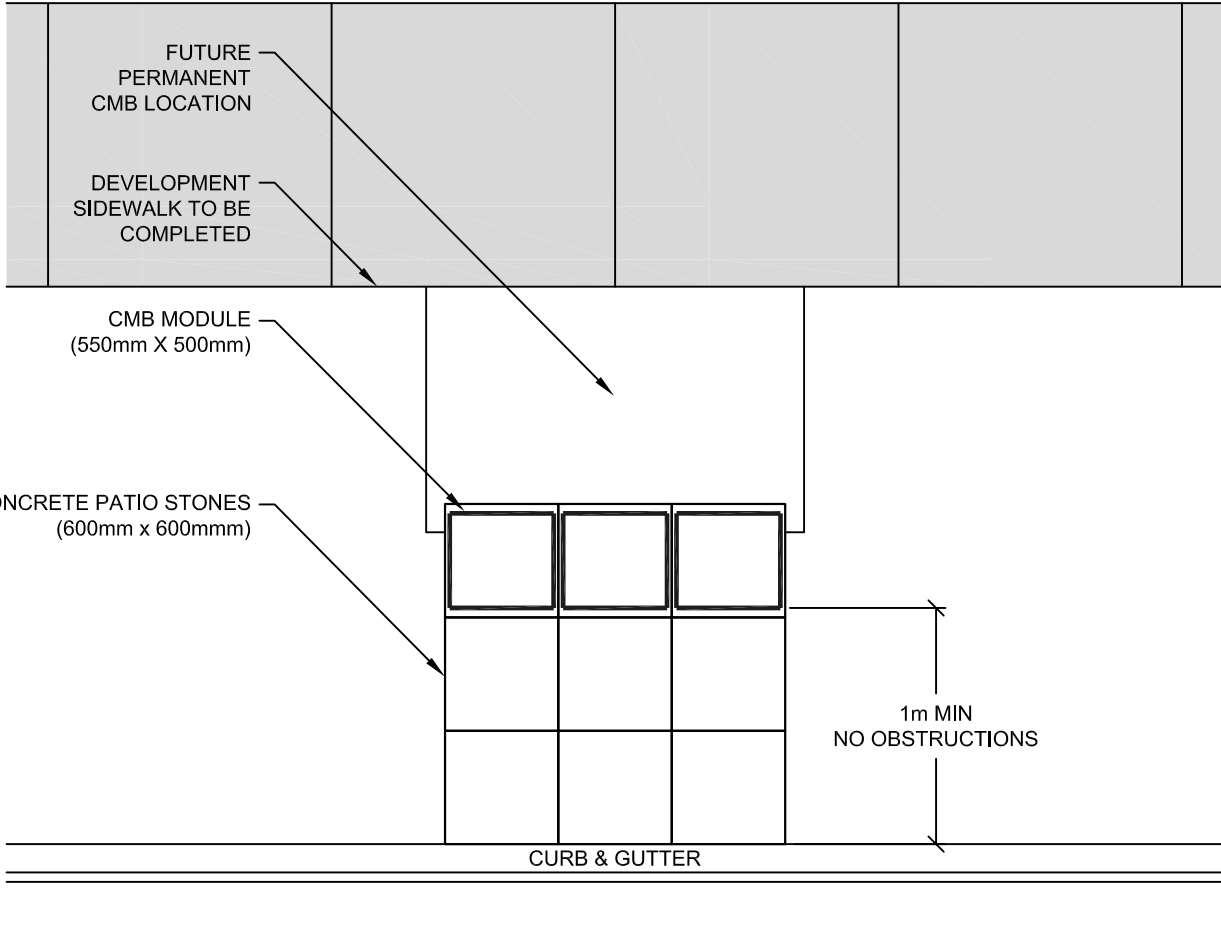
Drawn By: D.E.S.

Date: FEB. 2015

Std. Dwg.: **37**

Approved By:

N.R.



PLAN

NOTES:

1. CMB temporary location shall be adjacent to future permanent location.
2. Temporary clustering of CMB's in a central location is optional. Location to be indicated on Subdivision Engineering Drawings.



CITY OF STRATFORD STANDARD DRAWING

TEMPORARY COMMUNITY MAILBOX (CMB) DETAIL

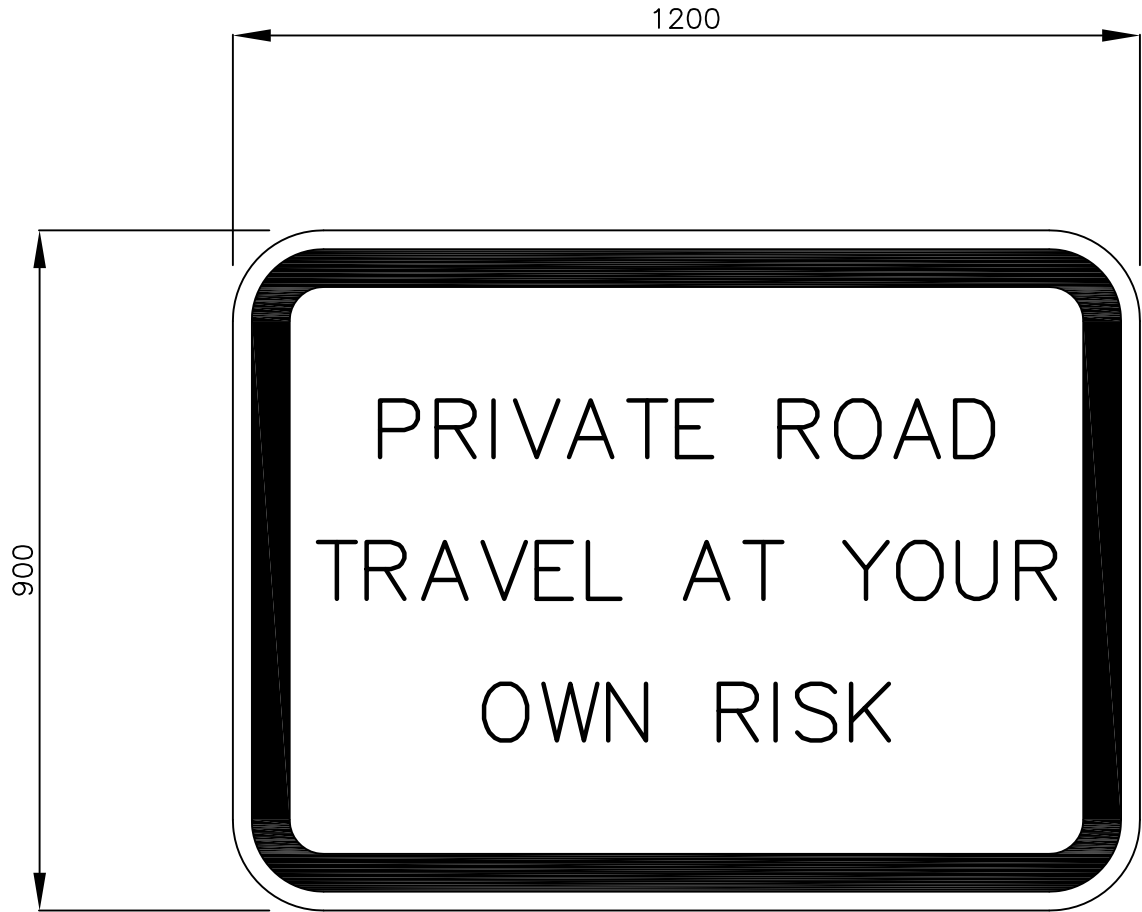
Drawn By: T.J.

Date: MAY 2008

Std. Dwg.: **38**

Approved By:

N.R.



NOTE:

1. SIGN TO BE PAINTED WITH ROYAL BLUE LETTERS AND BORDERS.
2. SIGN TO BE SUPPLIED AND MOUNTED BY THE CONTRACTOR.
3. SIGN TO BE MOUNTED ON 100mm x 100mm WOOD POSTS WITH SUITABLE FRAMING. POSTS TO BE SUPPLIED AND INSTALLED BY THE CONTRACTOR.
4. SIGN TO BE CONSTRUCTED OF 20mm THICK PLYWOOD TO THE DIMENSIONS SHOWN.

CITY OF STRATFORD STANDARD DRAWING

Drawn By: D.E.S.



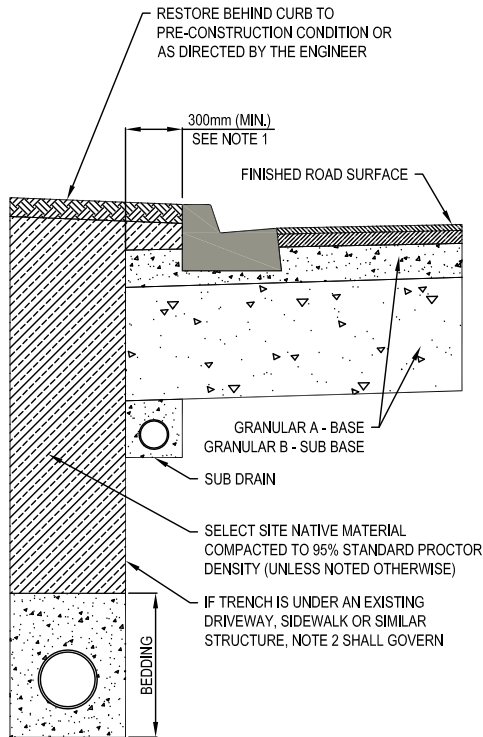
**CITY OF STRATFORD
PRIVATE ROAD SIGN**

Date: AUGUST, 2009

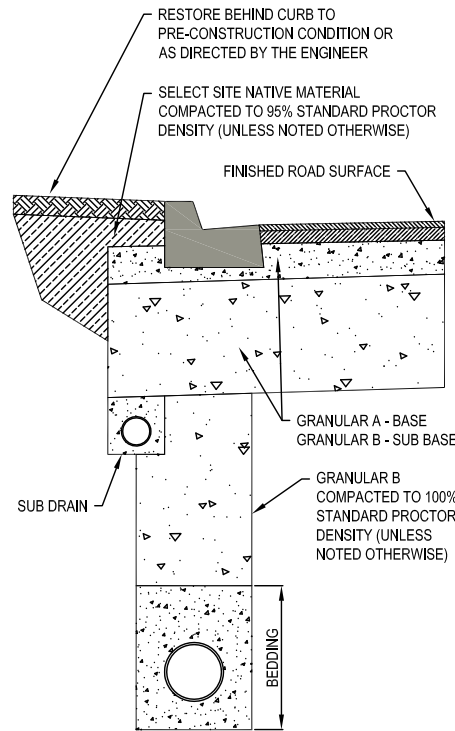
Standard Dwg. No. : **39**

Approved By:

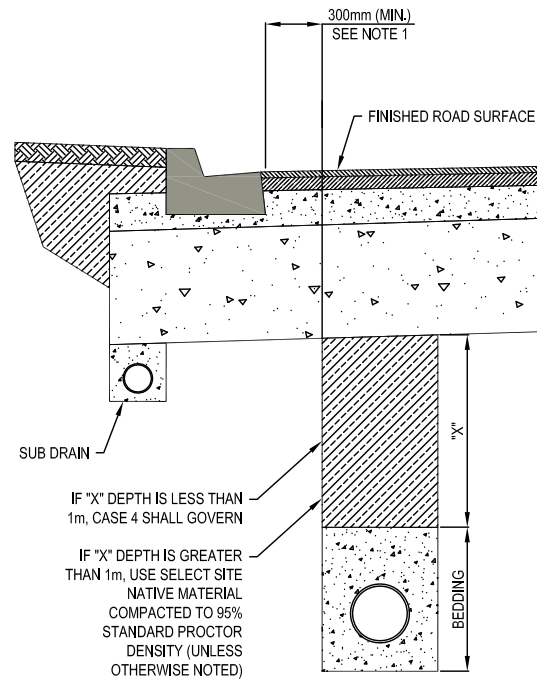
N.R.



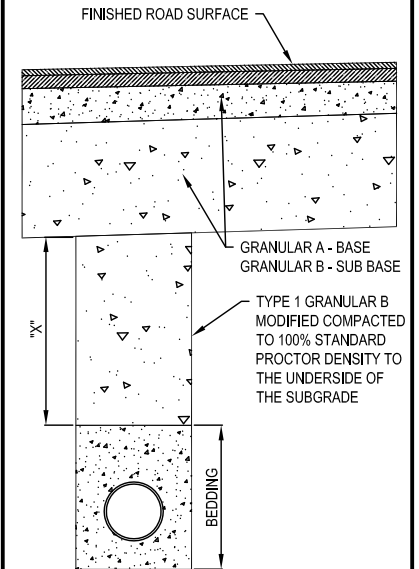
**TRENCH IN BOULEVARD
CASE 1**



**TRENCH ALL OR PARTIALLY UNDER CURB
CASE 2**



**TRENCH UNDER ROAD
CASE 3**



**TRENCH PERPENDICULAR (±45°) TO ROAD OR IF "X" IS LESS THAN 1m
CASE 4**

GENERAL NOTES:

- FOR ALL CASES, IF THE TRENCH WALL IS CLOSER THAN 300mm FROM THE BACK OF CURB (FUTURE OR EXISTING) OR EDGE OF PAVEMENT (FUTURE OR EXISTING), IN ANY DIRECTION, THEN CASE 2 SHALL GOVERN.
- FOR CASE 4, WHERE THE TRENCH CROSSES PERPENDICULAR TO THE ROADWAY (±45°) AND CROSSES UNDERNEATH AN EXISTING CURB, DRIVEWAY OR SIMILAR STRUCTURE, EXTEND GRANULAR BACKFILL TO 1.8m (MIN.) EITHER SIDE OF THE STRUCTURE.



CITY OF STRATFORD STANDARD DRAWING

STANDARD TRENCH BACKFILL DETAILS FOR EXISTING STREETS

Drawn By: S.Mc.

Date: NOV. 2014

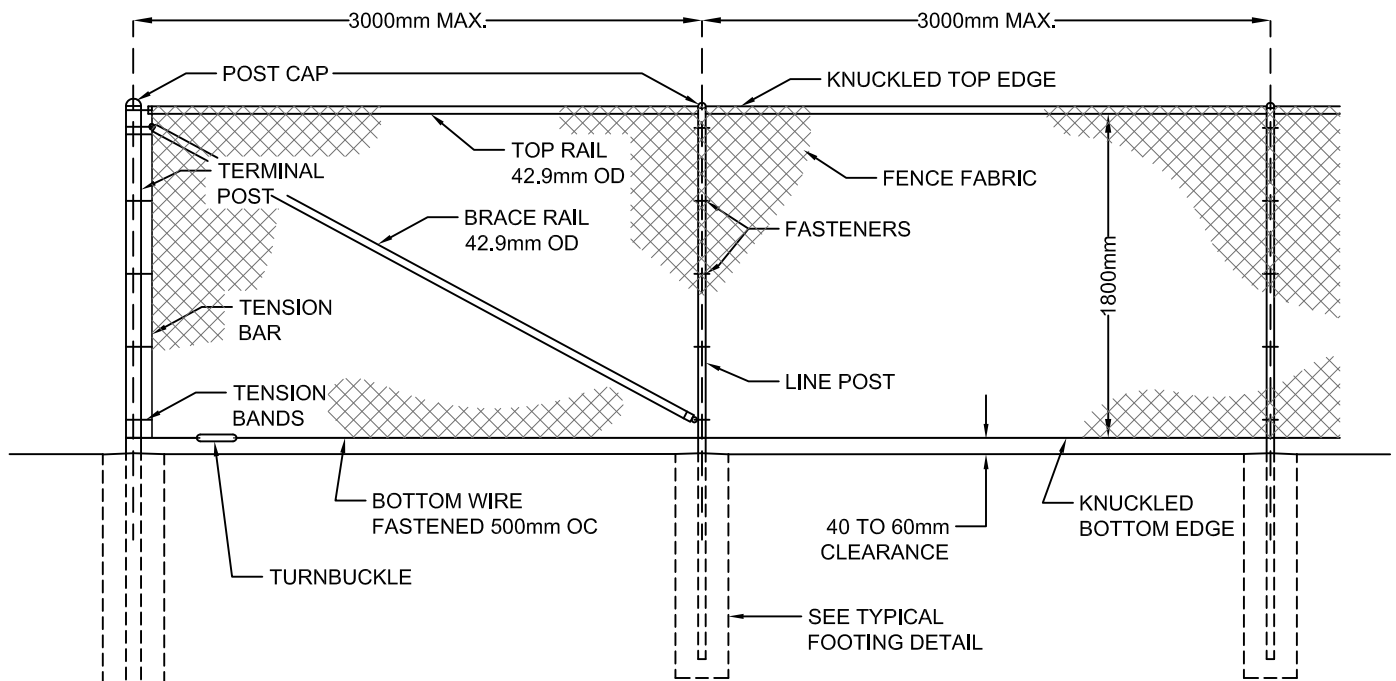
Revision:

Reviewed By:

N.R.

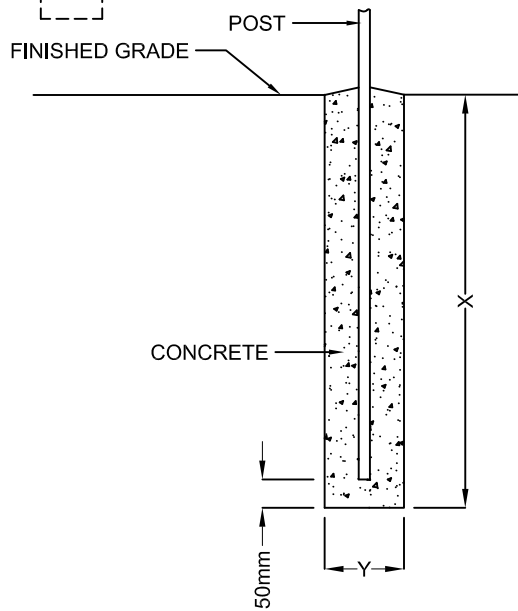
Scale:
N.T.S.

Standard Drawing No.
40



CHAIN-LINK FENCE DETAIL

N.T.S.



TYPICAL FOOTING DETAIL

N.T.S.

NOTES:

1. FENCE POSTS, RAILS AND HARDWARE SHALL BE BLACK POWDER COATED. FASTENERS SHALL BE HOT DIP GALVANIZED.
2. FENCE FABRIC SHALL BE BLACK VINYL COATED STEEL FABRIC 3.76 mm WITH A UNIFORM 38mm OR 50mm MAX. OPENING DIAMOND PATTERN.
3. FENCE FABRIC SHALL BE INSTALLED ON "CITY" SIDE OF FENCE.
4. POST CAPS SHALL BE WATER PROOF AND MECHANICALLY SECURED TO POSTS.
5. STRAINING POSTS SHALL BE INSTALLED AT INTERVALS NOT EXCEEDING 150M. ADDITIONAL STRAINING POSTS SHALL BE INSTALLED WHERE CHANGES IN VERTICAL GRADE EXCEEDS 30 DEGREES.
6. CONCRETE SHALL BE 20MPa @ 28 DAYS IN ACCORDANCE WITH O.P.S.S. 904.
7. FENCE SHALL BE INSTALLED ON PROPERTY LINES, UNLESS OTHERWISE DIRECTED BY CONTRACT ADMINISTRATOR.
8. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE SHOWN.

POST AND FOOTING DETAILS TABLE (IN mm)

POST TYPE	POST OD	FOOTING DEPTH "X"	FOOTING DIA. "Y"
LINE POST	60.3	915	250
TERMINAL POST	88.9	1370	350



CITY OF STRATFORD STANDARD DRAWING

CHAINLINK FENCE DETAIL

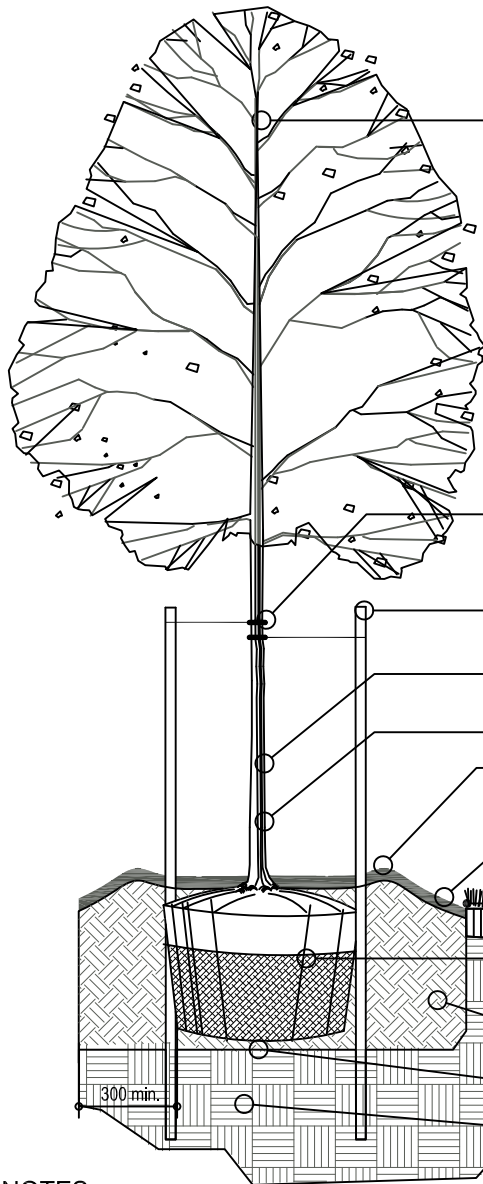
Drawn By: D.E.S.

Date: FEB. 2015

Std. Dwg.: 41

Approved By:

N.R.



DO NOT CUT OR DAMAGE LEADER
 PRUNE ONLY INJURED, INFECTED OR
 DEAD BRANCHES REMOVE ALL
 NURSERY TAGS, PLASTIC OR METAL.

NEW BLACK RUBBER HOSE (300mm
 MIN. LENGTH) OR EQUIV. # 12 GAUGE
 GALVINZED WIRE

STEEL T-BAR OR 50X50mm STAKE (SEE
 NOTES FOR STAKING REQUIREMENTS)
 STAKE TO EXTEND MIN. 300mm INTO
 UNDISTURBED SOIL

REMOVE TREE WRAP AT END OF WARRANTY PERIOD OR
 AS DIRECTED BY CONSULTING LANDSCAPE ARCHITECT

IF REQUIRED, PLASTIC TREE GUARD TO BE PLACED
 FROM LOWEST BRANCH TO SOIL SURFACE.

100mm HIGH SAUCER

100mm DEPTH SHREDDED CEDAR BARK
 MULCH BY GRO-BARK LTD, ALL TREAT
 FARMS OR APPROVED EQUIVALENT

PROVIDE CLEAN AND CONTINUOUS
 SPADE CUT ALONG ALL BED EDGES

REMOVE WIRE BASKET, BURLAP, AND
 ROPE FROM TOP 1/3 OF ROOT BALL.

EXCAVATE TO 1.5X ROOT BALL DEPTH AND
 BACK-FILL PREPARED SOIL MIX (SEE NOTE)
 COMPACT TOPSOIL TO ELIMINATE AIR
 POCKETS AND SETTLEMENT

SCARIFY PIT BOTTOM TO 150mm DEPTH

UNDISTURBED SOIL

NOTES:

1. SOIL MIXTURE: FOUR (4) PARTS NATIVE SOIL, ONE (1) PART WELL ROTTED COMPOST.
2. SAUCER SHALL BE SOAKED WITH WATER AND MULCHED IMMEDIATELY FOLLOWING PLANTING.
3. ALL DIMENSIONS ARE IN mm.
4. STAKING SCHEDULE;
 < 30mm CALIPER SIZE/ 2500mm HT. - ONE STAKE
 > 30mm CALIPER SIZE/ 2500mm HT. - TWO STAKES
 > 70mm CALIPER - THREE STAKES
 ALL SUPPORT SYSTEMS MUST BE REMOVED ONCE TREE IS ESTABLISHED.
5. ALL TREES TO BE STRAIGHT AND PLANTED VERTICALLY REGARDLESS OF SLOPE.
6. TOP OF ROOT FLARE SHALL BE POSITIONED 50mm ABOVE GRADE.

BALLED & BURLAPPED/ WIRE BASKET DECIDUOUS TREE

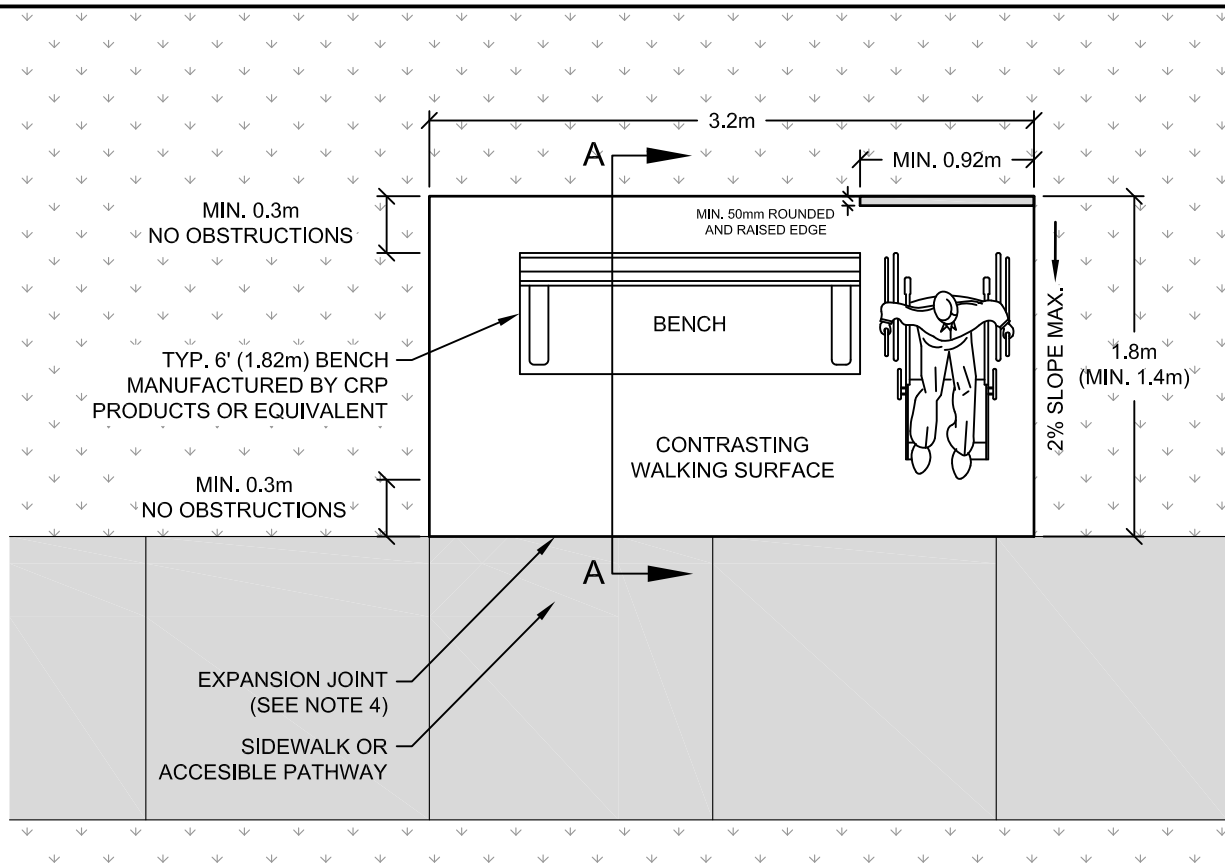
N.T.S.



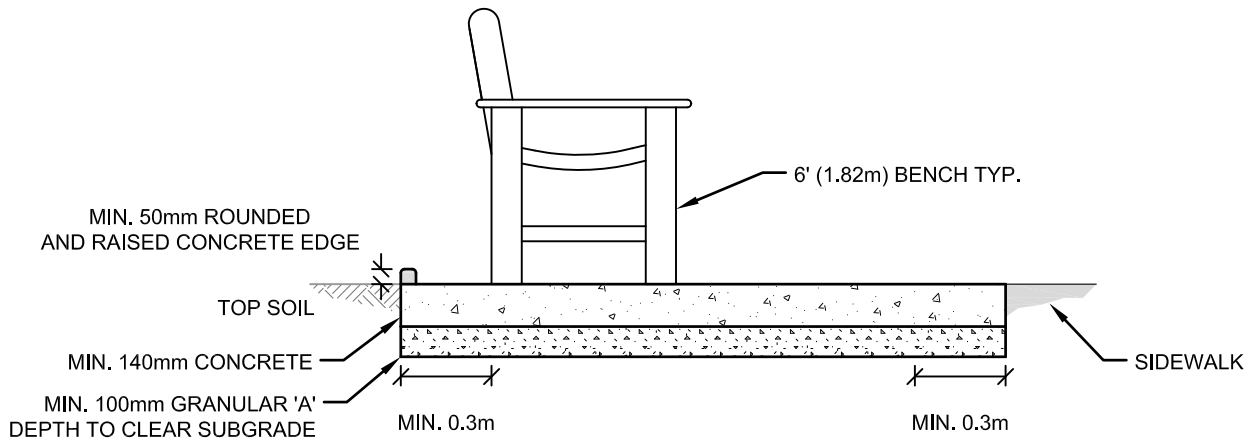
CITY OF STRATFORD STANDARD DRAWING

TYPICAL TREE PLANTING

Drawn By: S.Mc.
Date: MAR, 2015
Std. Dwg.: 42
Approved By:
N.R.



PLAN



SECTION A-A

NOTES:

1. ALL UNDERGROUND UTILITIES TO BE LOCATED BEFORE ANY EXCAVATION IS PERMITTED. IN THE EVENT OF ANY UTILITIES PRESENT, GUIDANCE MUST BE FOLLOWED.
2. ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE STATED.
3. DRAINAGE MUST BE DIRECTED AWAY FROM ACCESS AND PAD. WATER CAN NOT POOL AT SITE.
4. EXPANSION JOINTS ARE REQUIRED WHERE SLAB ABUTS: SIDEWALK OR ACCESSIBLE PATHWAY (REFER TO STND. DWG. 6).



CITY OF STRATFORD STANDARD DRAWING

**ACCESSIBLE
REST AREA DETAIL**

Drawn By: S.Mc.

Date: APR. 2018

Std. Dwg.: **43**

Approved By:

N.R.

1800

1200

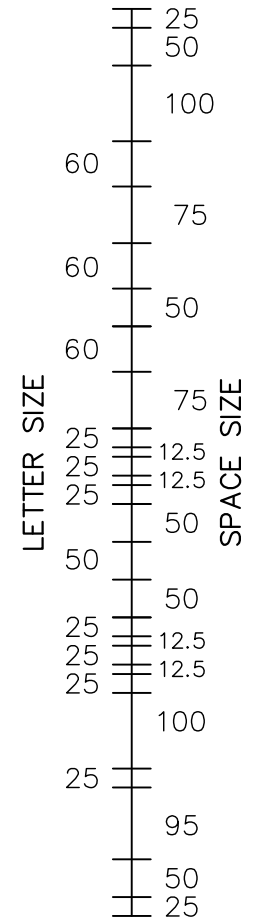
STORMWATER MANAGEMENT AREA
 CORPORATION OF THE
 CITY OF STRATFORD

THIS FACILITY IS A NATURALIZED DRY POND AREA WHICH WILL REMAIN UNDISTURBED. THE POND WILL INTERMITTENTLY STORE AND TREAT RAINWATER. IT HAS BEEN DESIGNED TO REDUCE FLOODING RISK AND IMPROVE WATER QUALITY.

CAUTION

THIS FACILITY IS NOT INTENDED FOR RECREATIONAL USE. IT CONTAINS FEATURES WHICH MAY BECOME HAZARDOUS, INCLUDING RAPIDLY FLUCTUATING WATER LEVELS AND THIN ICE DURING WINTER CONDITIONS

THE MUNICIPALITY ASSUMES NO RESPONSIBILITY FOR ITS UNINTENDED USE.



NOTE:

1. SIGN TO BE PAINTED WITH ROYAL BLUE LETTERS AND BORDERS.
2. SIGN TO BE SUPPLIED AND MOUNTED BY THE CONTRACTOR.
3. SIGN TO BE MOUNTED ON 100mm x 100mm WOOD POSTS WITH SUITABLE FRAMING. POSTS TO BE SUPPLIED AND INSTALLED BY THE CONTRACTOR.
4. SIGN TO BE CONSTRUCTED OF 20mm THICK PLYWOOD TO THE DIMENSIONS SHOWN.



CITY OF STRATFORD STANDARD DRAWING

**CITY OF STRATFORD
 STORMWATER MANAGEMENT
 AREA SIGN**

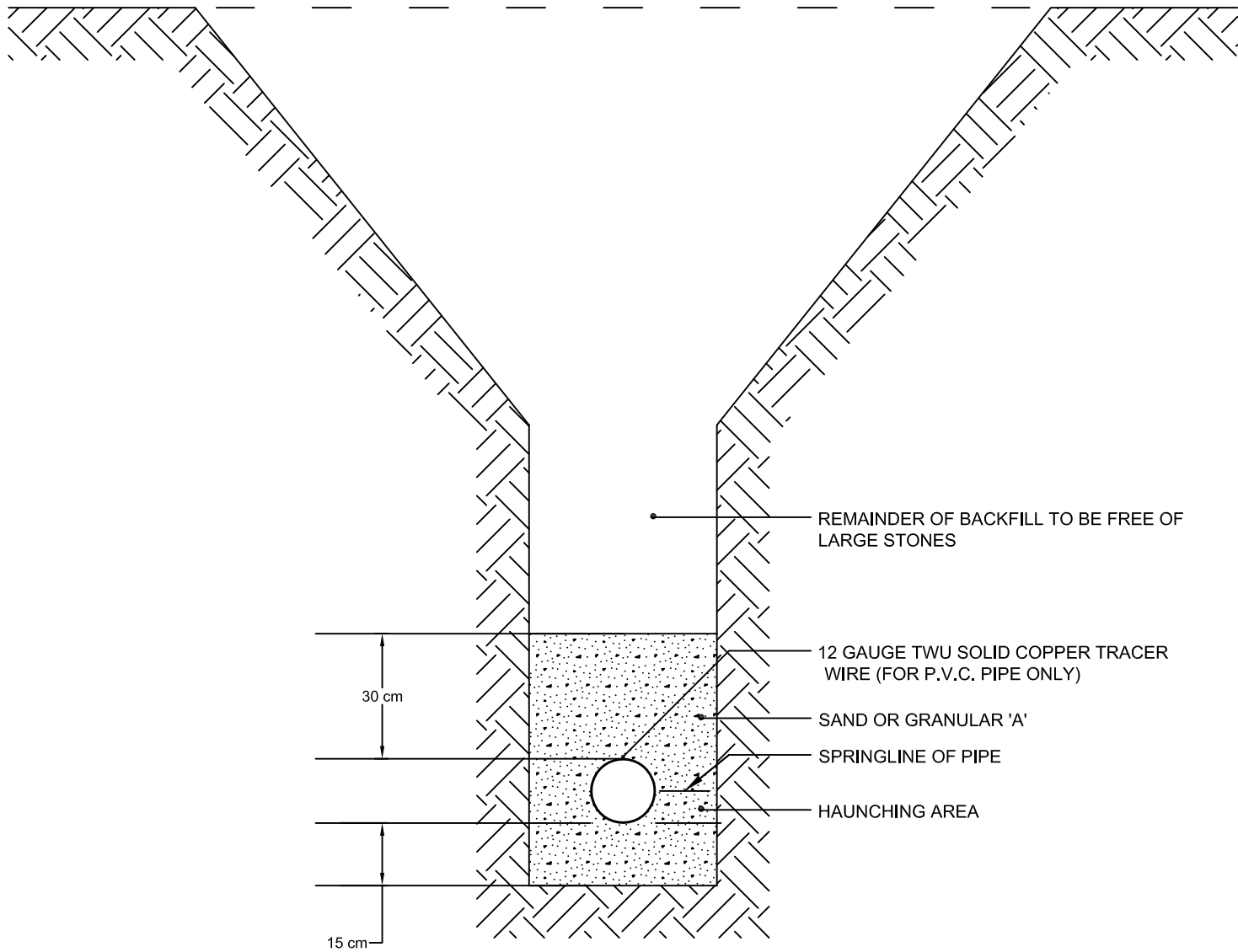
Drawn By: S.Mc.

Date: JULY, 2020

Standard Dwg. No. : **44**

Approved By:

N.R.



NOTES:

1. THIS BEDDING DETAIL SHALL BE APPLICABLE FOR CLASS 52 DUCTILE IRON PIPE OR CLASS 150, DR 18 P.V.C. PIPE.
2. THE SAND BEDDING MATERIAL SHALL BE PLACED AND COMPACTED TO A DEPTH OF 15.0 cm BEFORE THE PIPE IS PLACED IN THE TRENCH. THE REMAINDER OF THE BEDDING MATERIAL SHALL BE HAND PLACED AND TAMPED IN 15.0 cm LAYERS TO 30.0 cm ABOVE THE TOP OF THE PIPE. FOR P.V.C. PIPE, ENSURE THE HAUNCHING AREA IS PROPERLY COMPACTED.
3. THE REMAINDER OF THE BACKFILL MATERIAL, ABOVE THE BEDDING MATERIAL MAY BE MACHINE PLACED, BUT SHALL BE FREE OF LARGE STONES (GREATER THAN 100 mm) AND SHALL BE COMPACTED. THE REMAINDER OF THE BACKFILL UNDER THE TRAFFIC AREA (ROADWAYS & DRIVEWAYS), TO BACK OF SIDEWALK AND/OR CURB SHALL BE GRANULAR 'B'.
4. FOR ALL TYPES OF PIPE BEING LAYED UNDER ROADWAYS, THE TOP OF THE TRENCH SHALL BE BACKFILLED WITH 30.0 cm OF GRANULAR 'B' OR 'A', FOLLOWED WITH A TOP 15.0 cm GRANULAR 'A' MATERIAL COMPACTED TO 100 % PROCTOR DENSITY.



CITY OF STRATFORD STANDARD DRAWING

**WATERMAIN BEDDING
DETAIL**

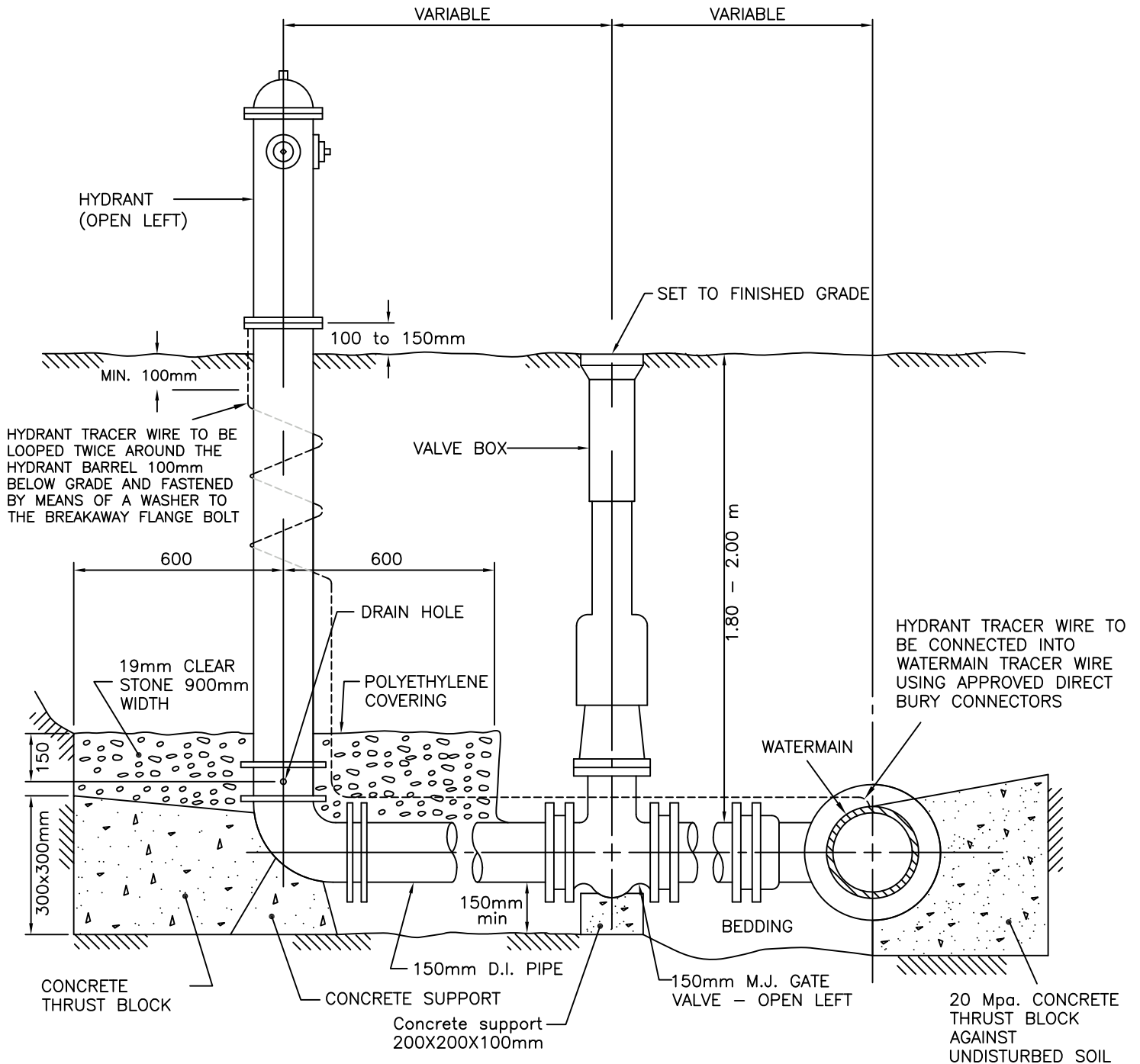
Drawn By: D.E.S.

Date: FEB. 2007

Std. Dwg.: **W1**

Approved By:

J.S.



CITY OF STRATFORD STANDARD DRAWING

Drawn By: D.E.S./S.Mc

Date: MAR. 2019

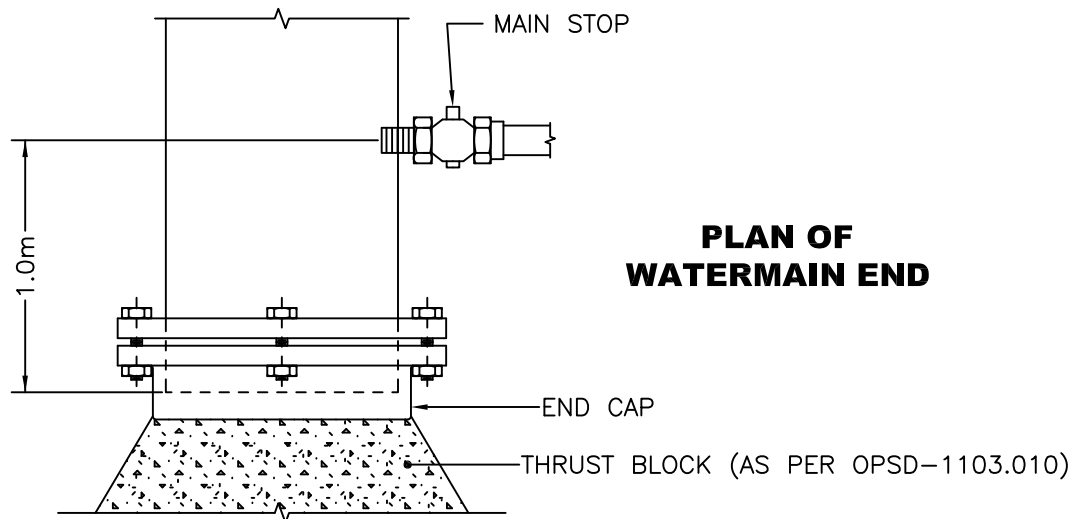
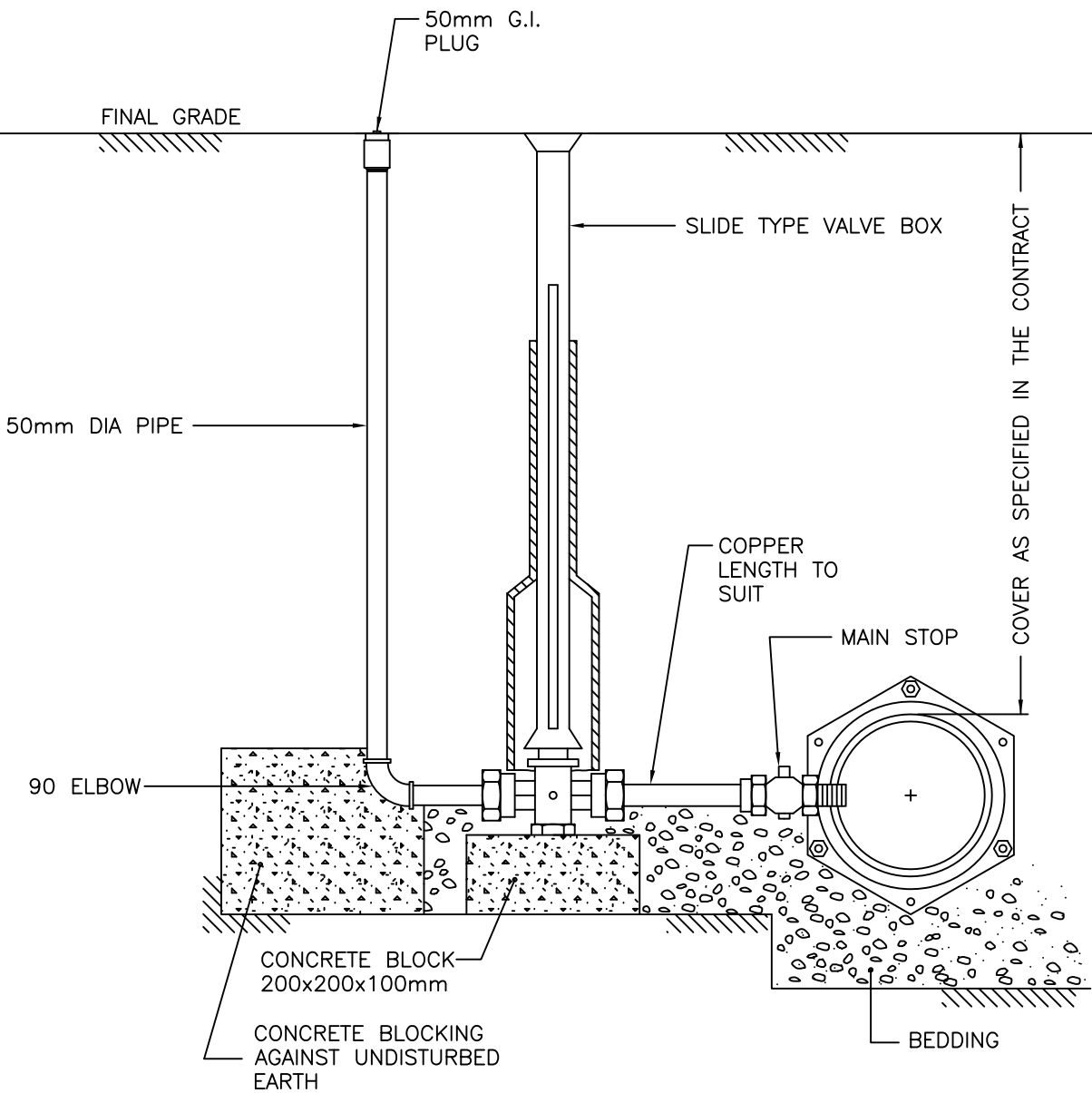
Std. Dwg.: **W2**

Approved By:

M.M.

**STANDARD 15 cm
HYDRANT & VALVE**





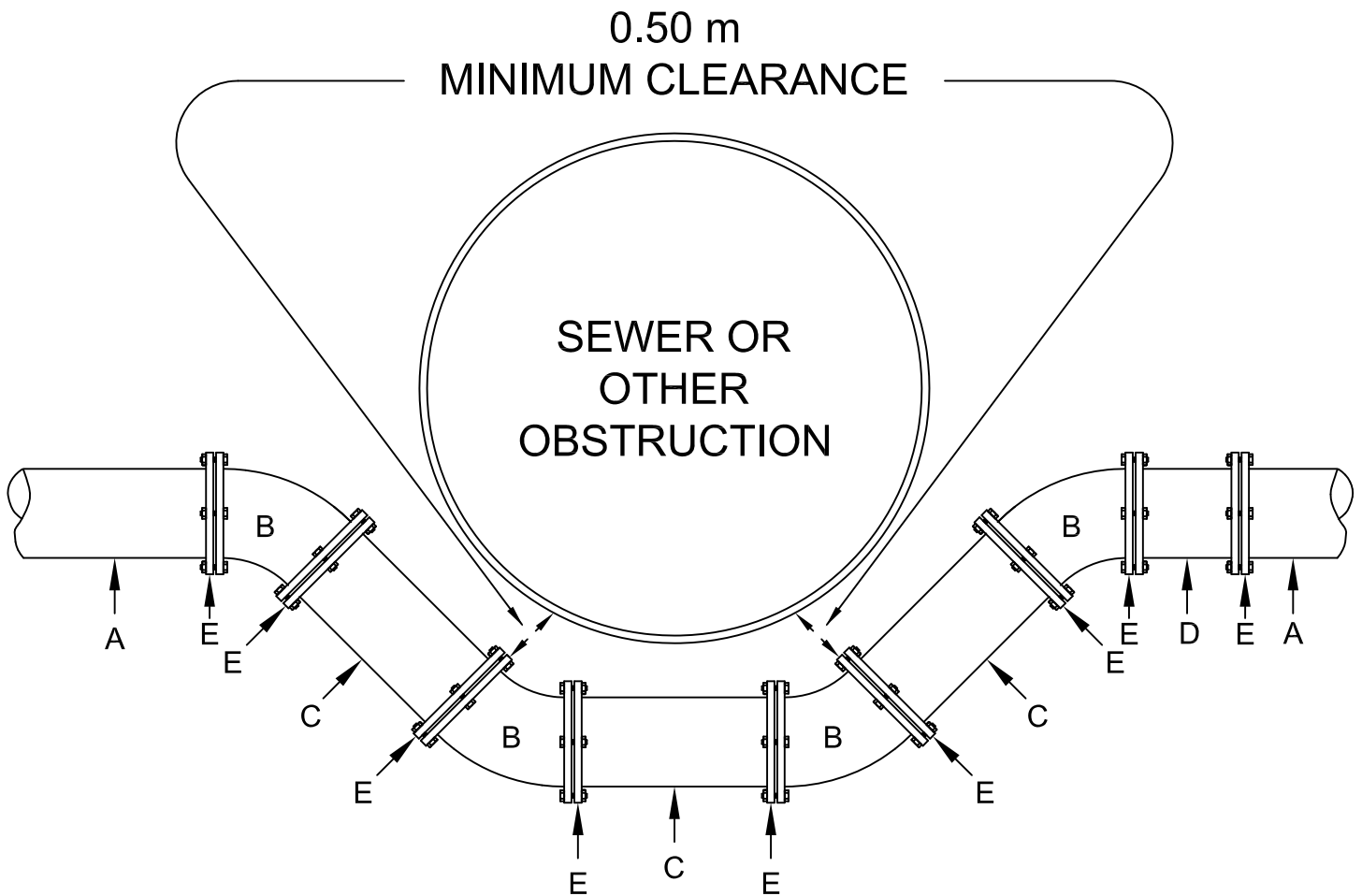
PLAN OF WATERMAIN END



CITY OF STRATFORD STANDARD DRAWING

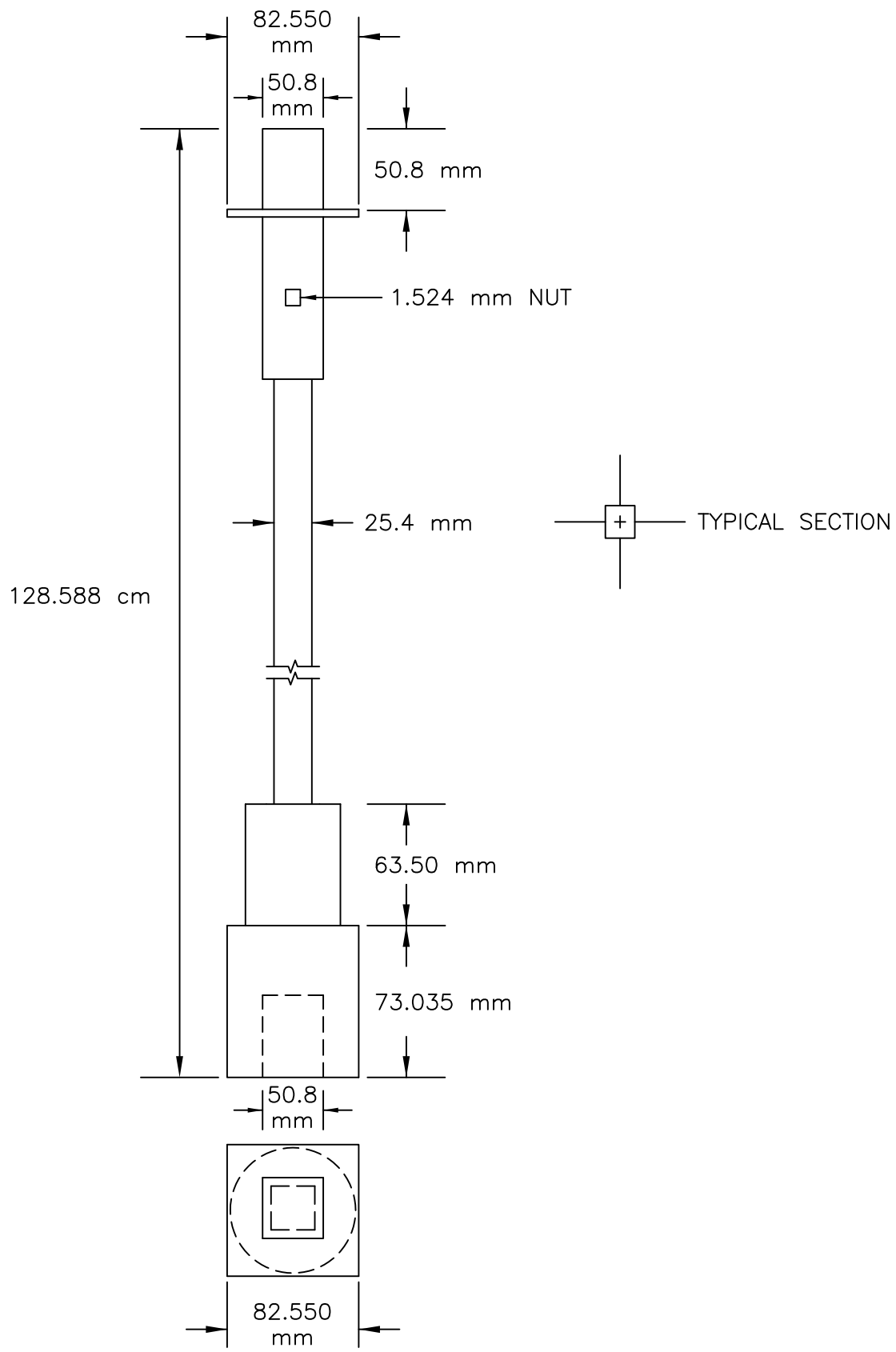
STANDARD 50 mm BLOW OFF INSTALLATION

Drawn By: D.E.S.
 Date: FEB. 2007
 Std. Dwg.: W3
 Approved By:
 J.S.



LEGEND

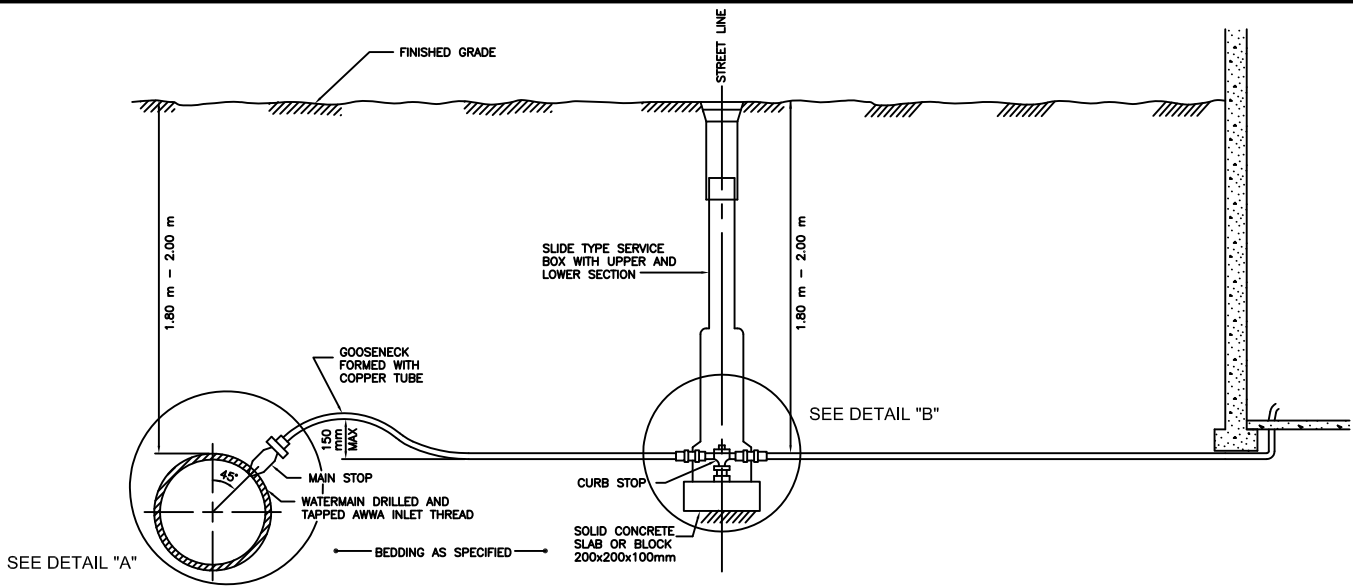
- A. EXISTING WATERMAIN
- B. REQUIRED M.J. BEND
- C. FILLER PIECE
- D. M.J. SLEEVE
- E. RETAINER GLAND



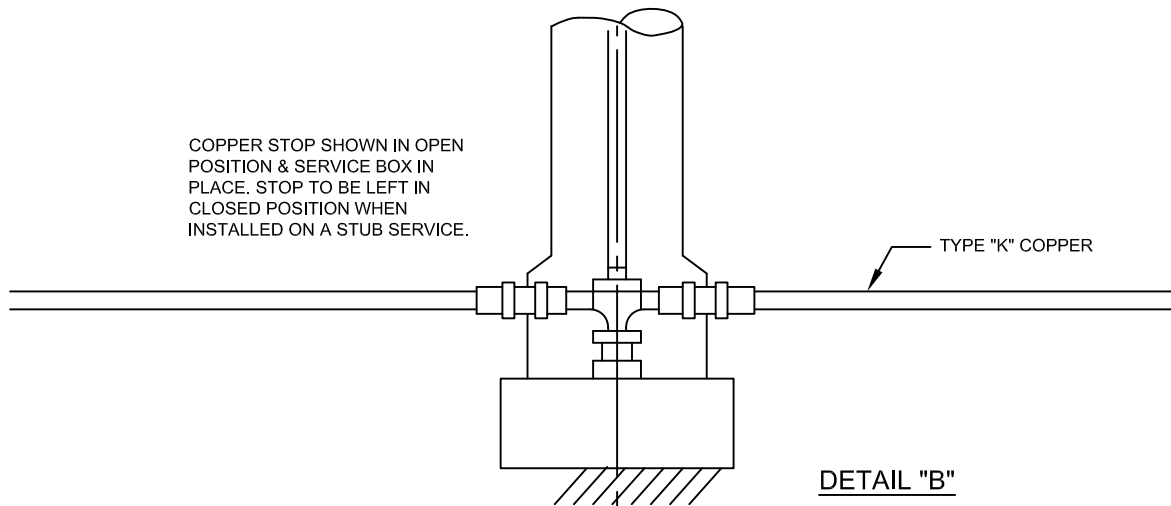
CITY OF STRATFORD STANDARD DRAWING

**STANDARD VALVE ROD
EXTENSION PIECE FOR 10 cm
& LARGER VALVES**

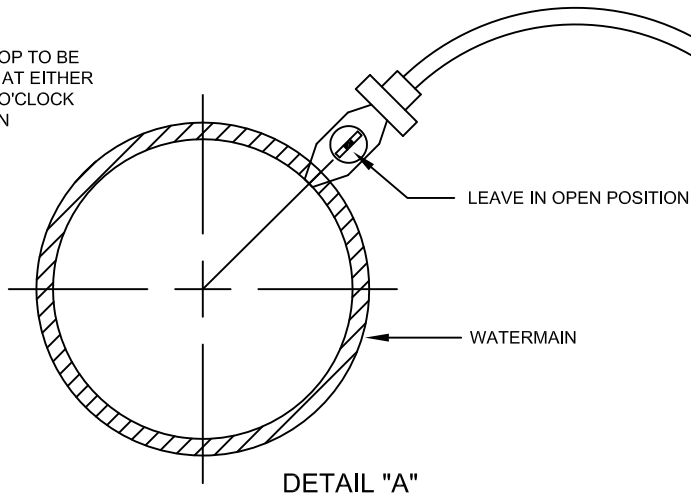
Drawn By: D.E.S.
Date: FEB. 2007
Std. Dwg.: **W5**
Approved By:
J.S.



COPPER STOP SHOWN IN OPEN POSITION & SERVICE BOX IN PLACE. STOP TO BE LEFT IN CLOSED POSITION WHEN INSTALLED ON A STUB SERVICE.



MAIN STOP TO BE TAPPED AT EITHER 2 OR 10 O'CLOCK POSITION



CITY OF STRATFORD STANDARD DRAWING

**STANDARD COPPER
WATER SERVICE
INSTALLATION (25mm)**

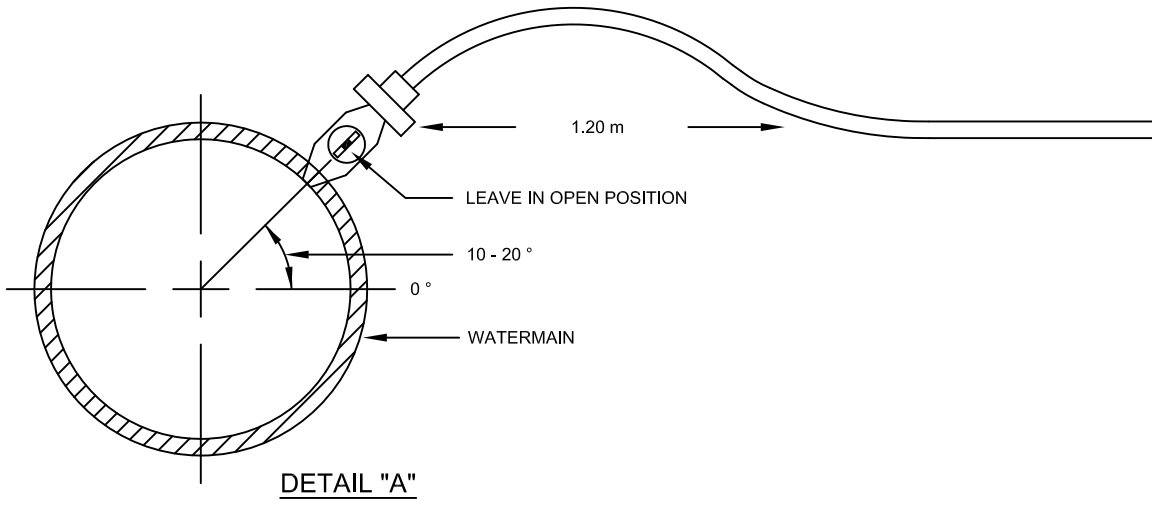
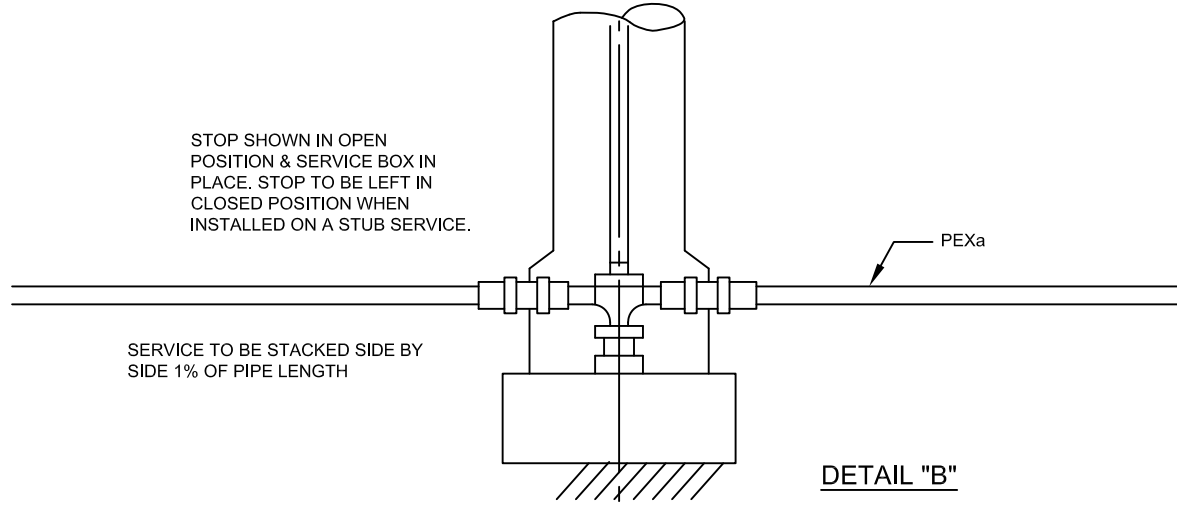
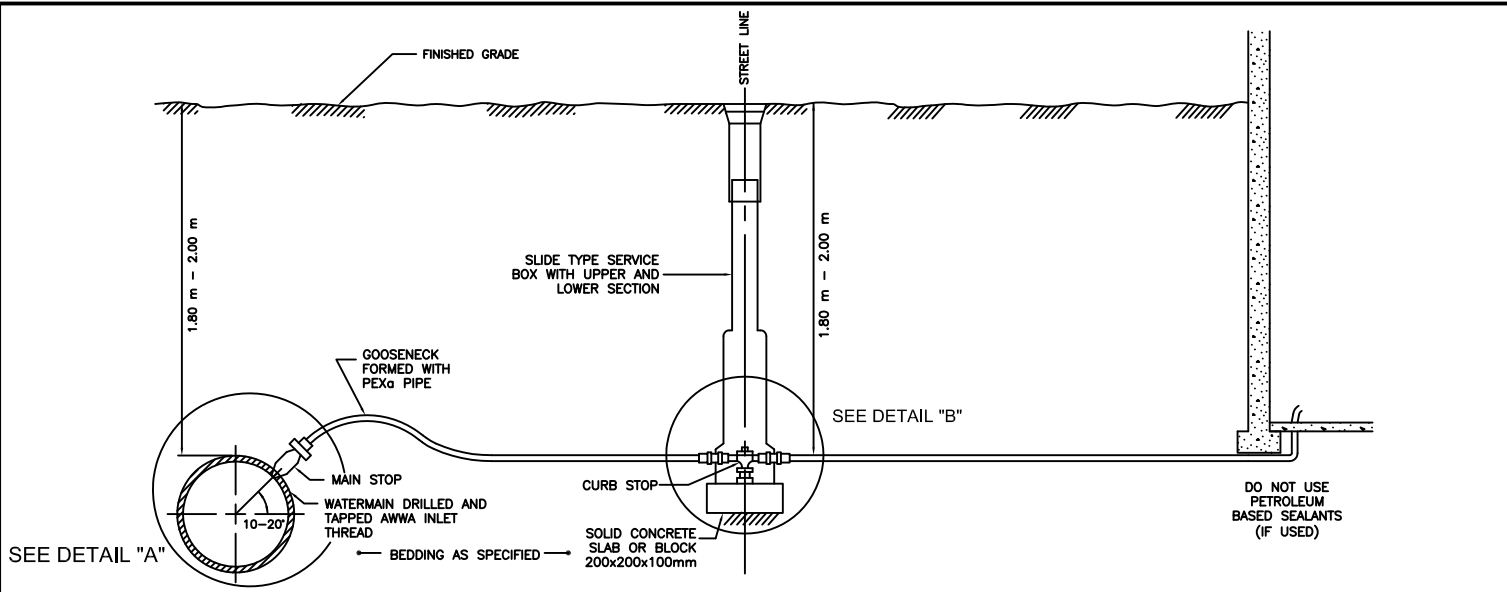
Drawn By: D.E.S.

Date: DEC. 2015

Std. Dwg.: **W6-C**

Approved By:

M.M.



CITY OF STRATFORD STANDARD DRAWING

STANDARD PEXa

WATER SERVICE

INSTALLATION (25mm)

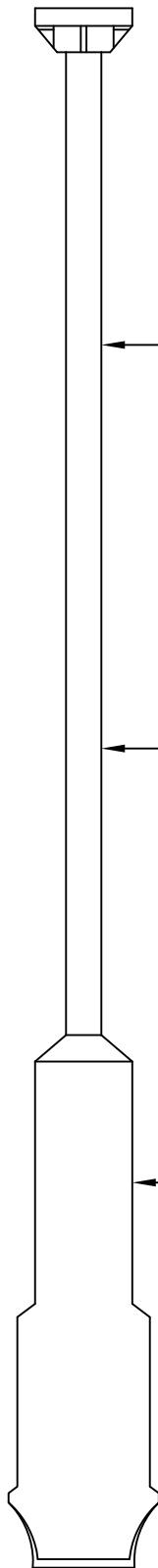
Drawn By: D.E.S.

Date: DEC. 2015

Std. Dwg.: **W6-P**

Approved By:

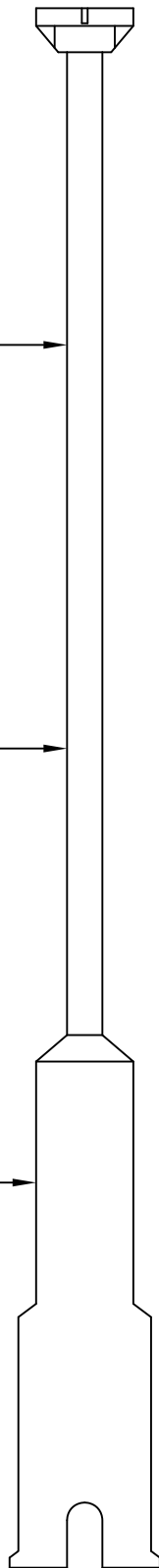
M.M.



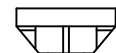
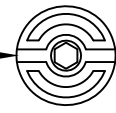
STAND PIPE

ADJUSTABLE SERVICE BOX

SERVICE BOX BASE (C.I.)



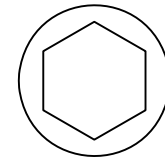
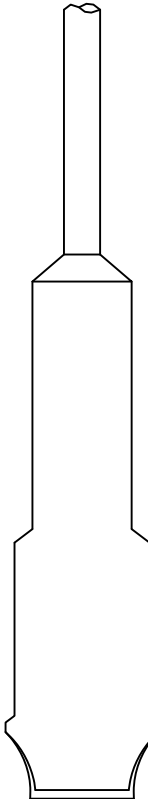
CURB BOX COVER (C.I.)



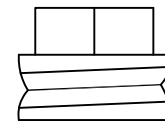
ADJUST TO GRADE USING BLACK IRON NIPPLE (IF NECESSARY)



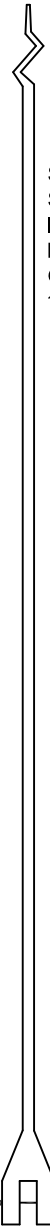
BLACK IRON COUPLING



BRASS PLUG - WITH 19mm HEXAGON HEAD



STAINLESS STEEL SERVICE ROD INSTALLED TO 300 mm BELOW GRADE AND OPERABLE WITH A 1.2m KEY



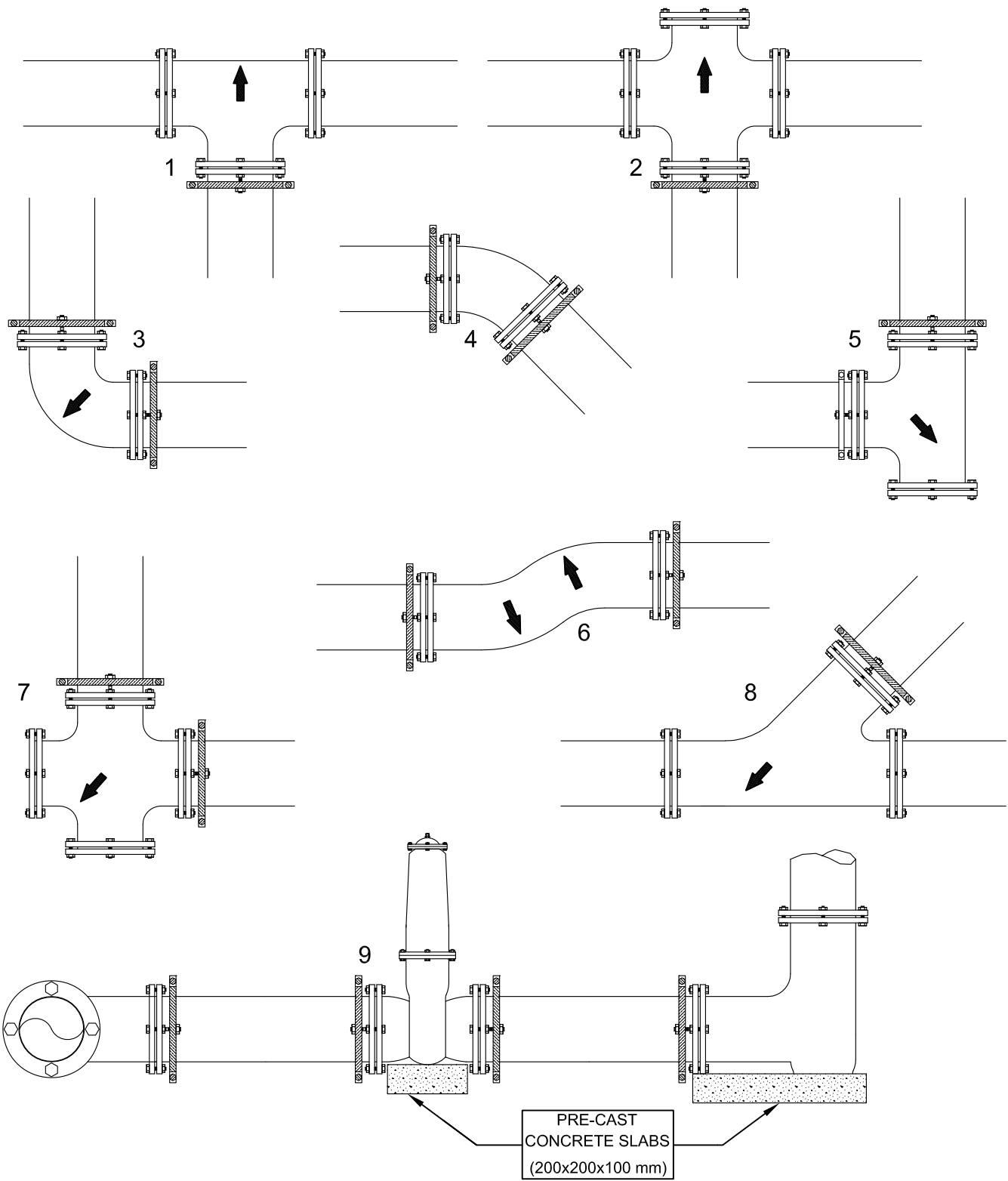
STAINLESS STEEL COTTER PIN



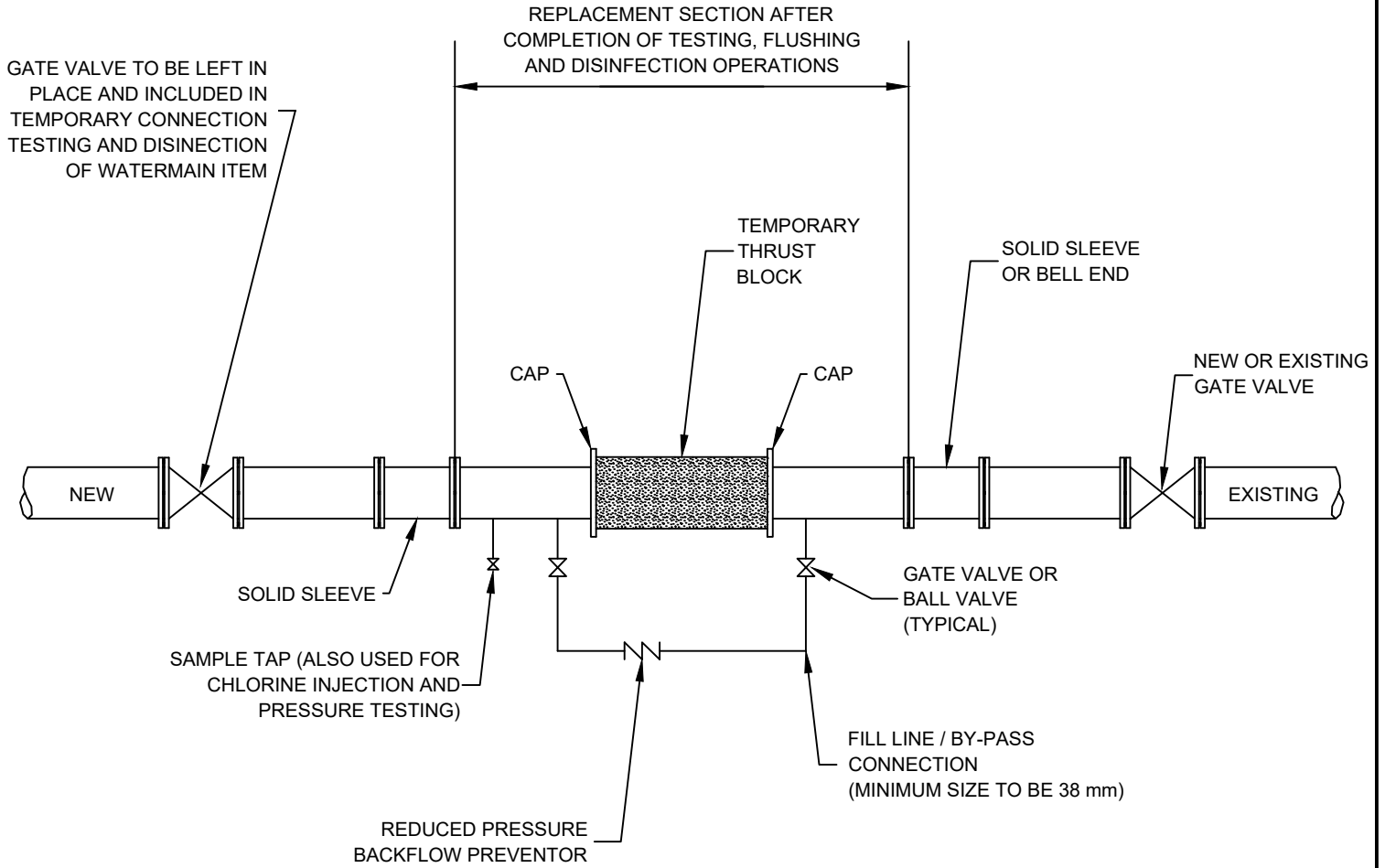
CITY OF STRATFORD STANDARD DRAWING

STANDARD WATER SERVICE BOX INSTALLATION (25 mm to 50 mm)

Drawn By: D.E.S.
 Date: FEB. 2007
 Std. Dwg.: **W7**
 Approved By:
 J.S.



- | | |
|--|--|
| 1. THRU LINE CONNECTION, TEE | 6. DIRECTION CHANGE |
| 2. THRU LINE CONNECTION, CROSS USED AS TEE | 7. DIRECTION CHANGE, CROSS USED AS ELBOW |
| 3. DIRECTION CHANGE, ELBOW | 8. THRU LINE CONNECTION, WYE |
| 4. DIRECTION CHANGE VERTICAL, BEND | 9. HYDRANT ROUNOUT |
| 5. DIRECTION CHANGE, TEE USED AS ELBOW | |



CITY OF STRATFORD STANDARD DRAWING

TYPICAL TEMPORARY CONNECTION FOR WATERMAINS

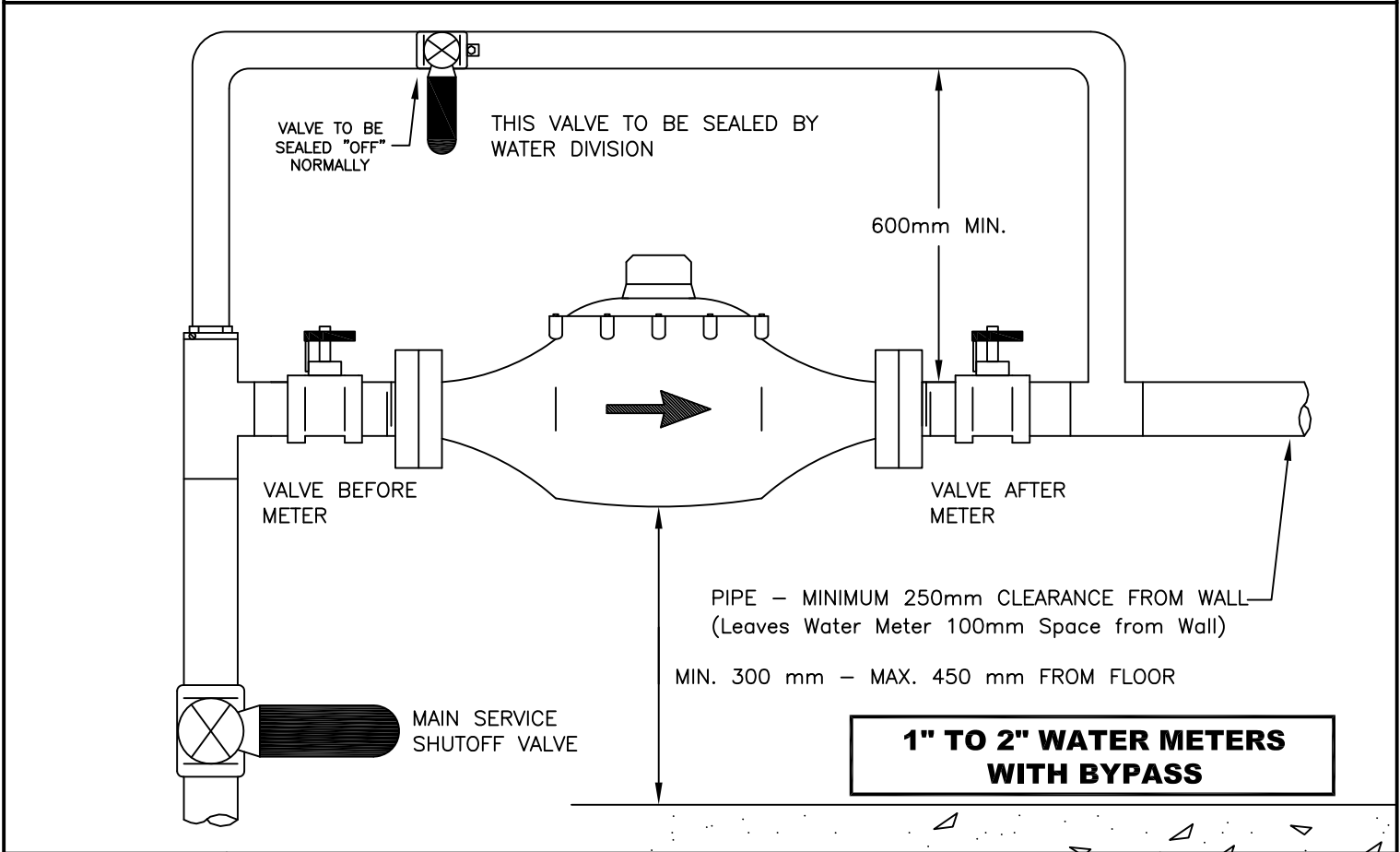
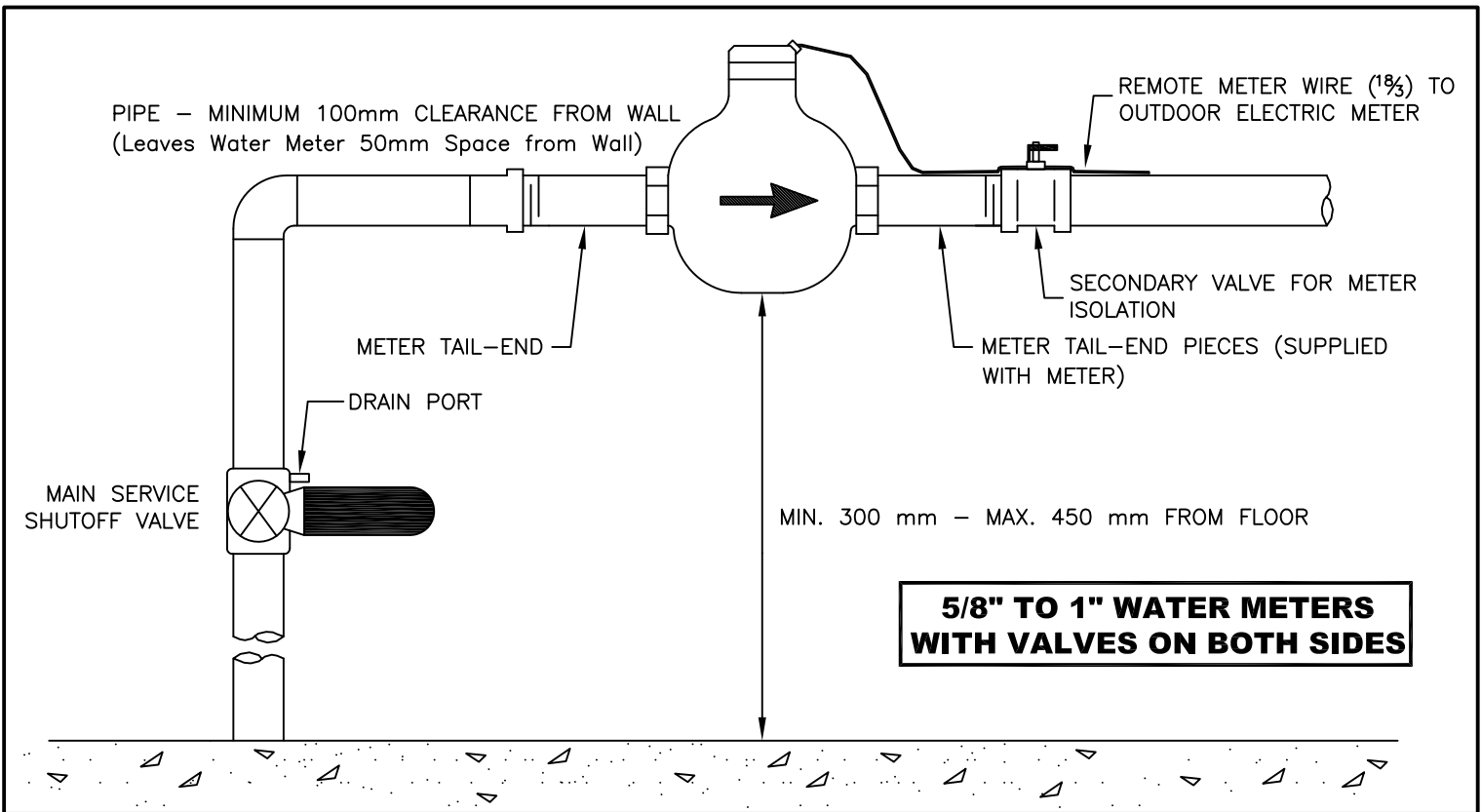
Drawn By: D.E.S.


Date: MAR. 2021

Std. Dwg.: **W9**

Approved By:

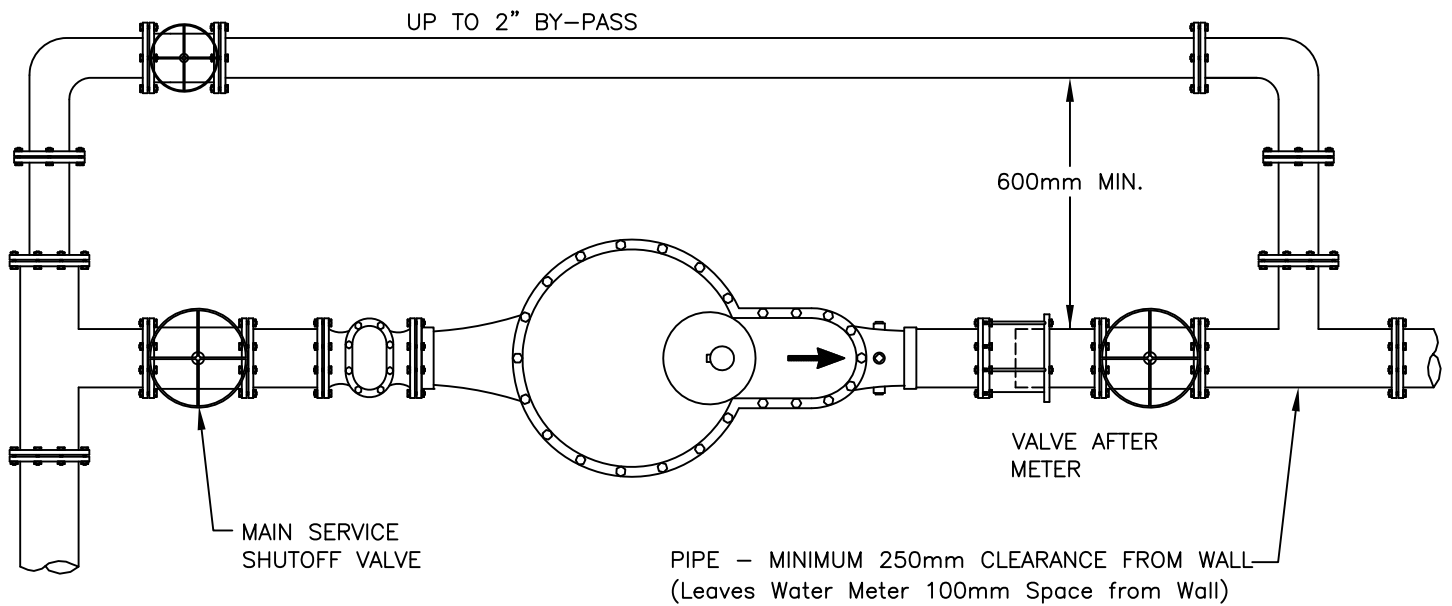
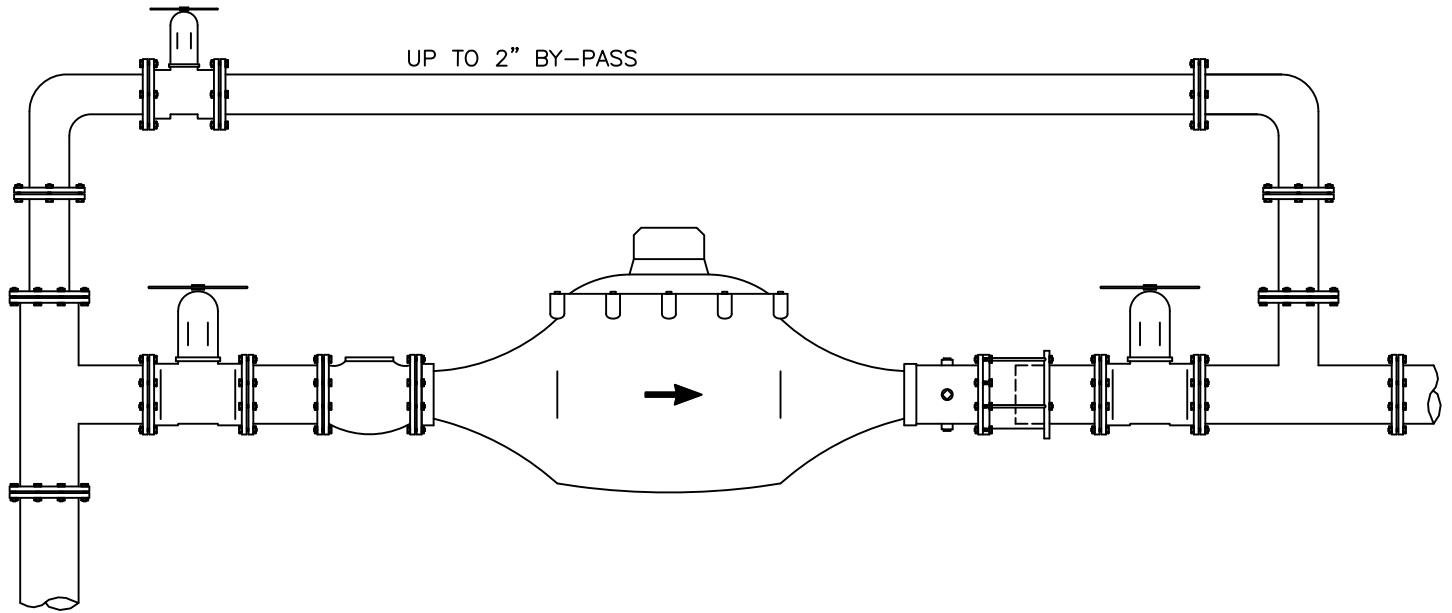
J.B.



 <p>Stratford Dramatically Different! INFRASTRUCTURE AND DEVELOPMENT SERVICES DEPARTMENT</p>	CITY OF STRATFORD STANDARD DRAWING		Drawn By: D.E.S.
	REGULATIONS REGARDING INSTALLATION OF WATER METERS		Date: OCT. 2007
	Residential & Commercial		Std. Dwg.: W10
	AS PER 7.6.1.3.(5) ONTARIO BUILDING CODE		Approved By: J.S.

3" TO 8" COMPOUND WATER METERS WITH BY-PASS

SIDE VIEW



CITY OF STRATFORD STANDARD DRAWING

REGULATIONS REGARDING INSTALLATION OF WATER METERS

Commercial & Industrial Compound Water Meters AS PER 7.6.1.3.(5) ONTARIO BUILDING CODE

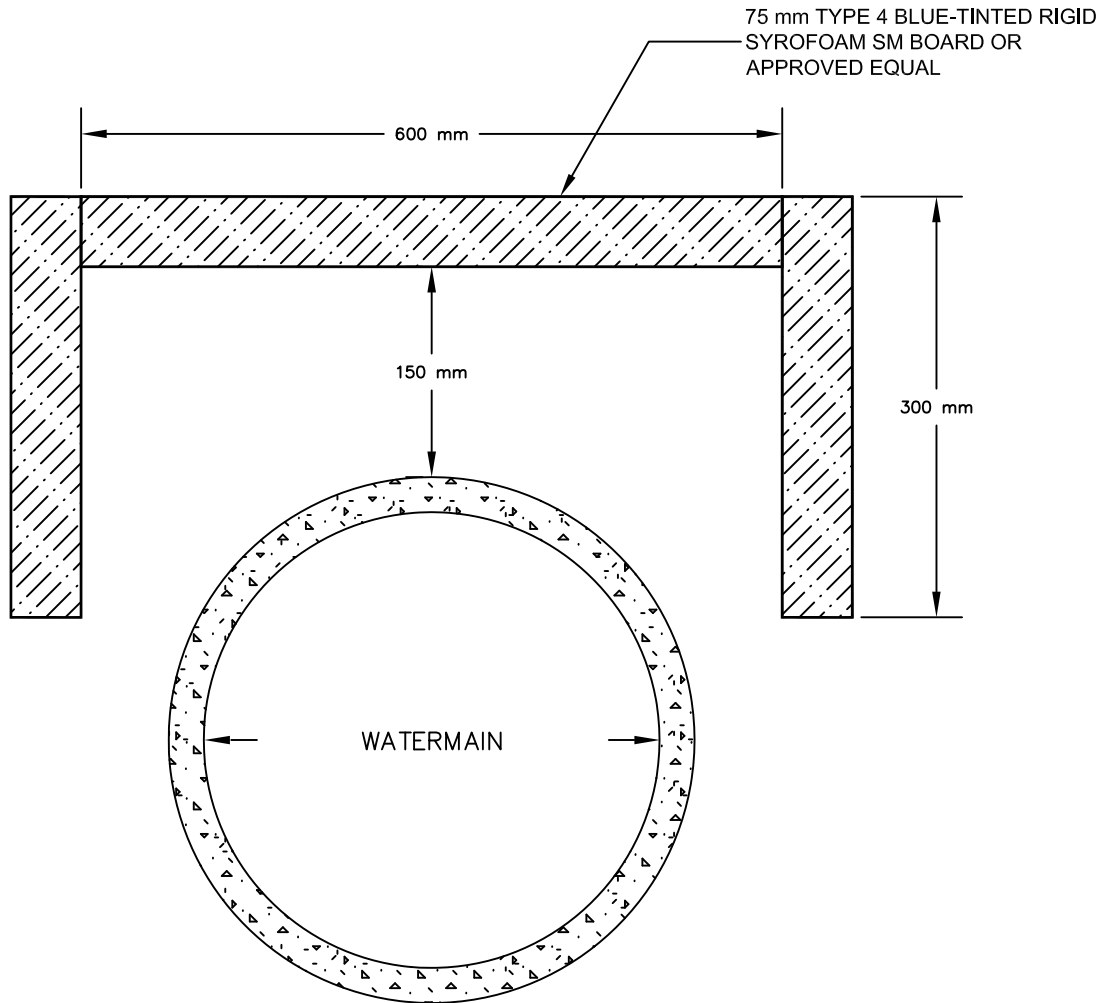
Drawn By: D.E.S.

Date: OCT. 2007

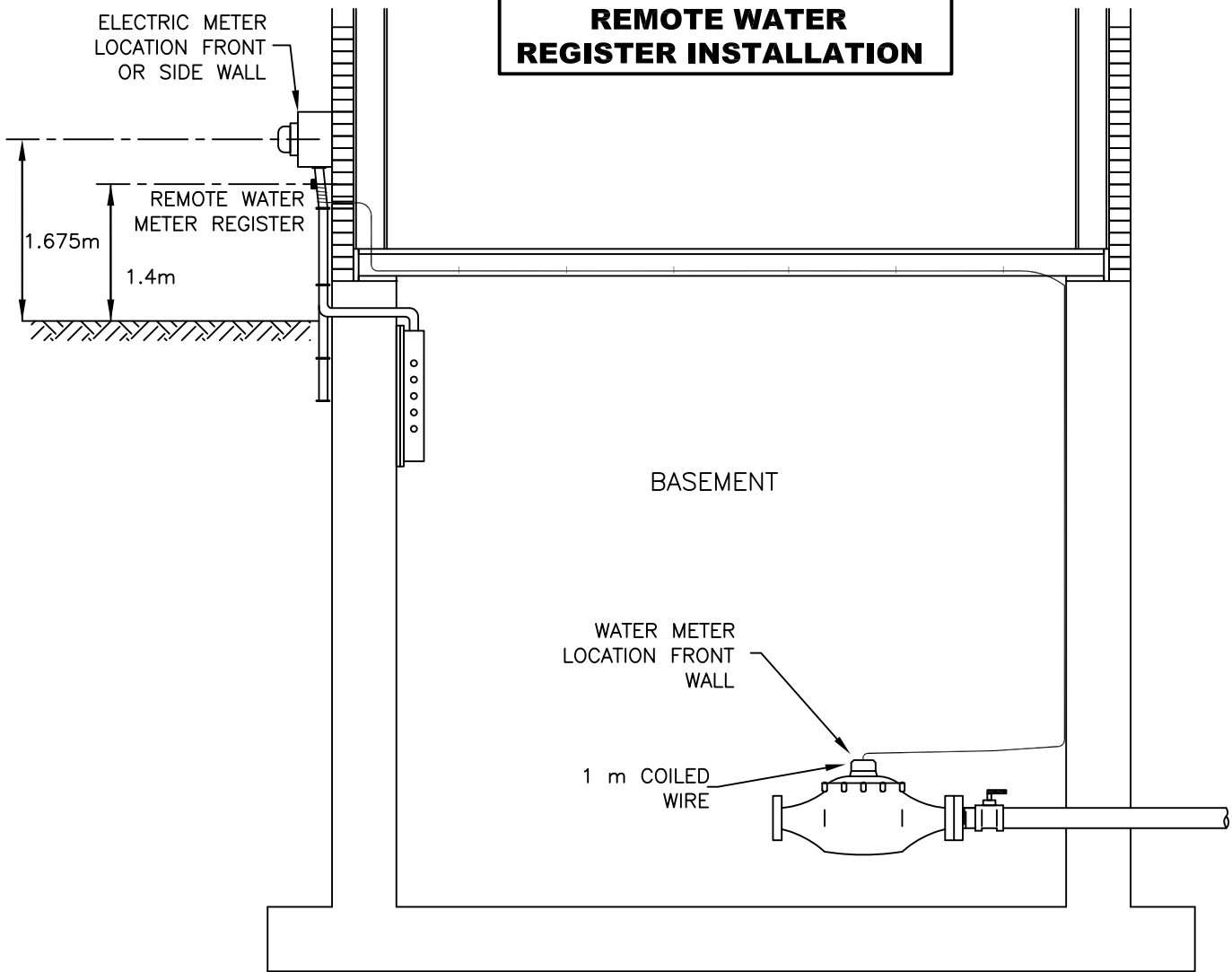
Std. Dwg.: **W11**

Approved By:

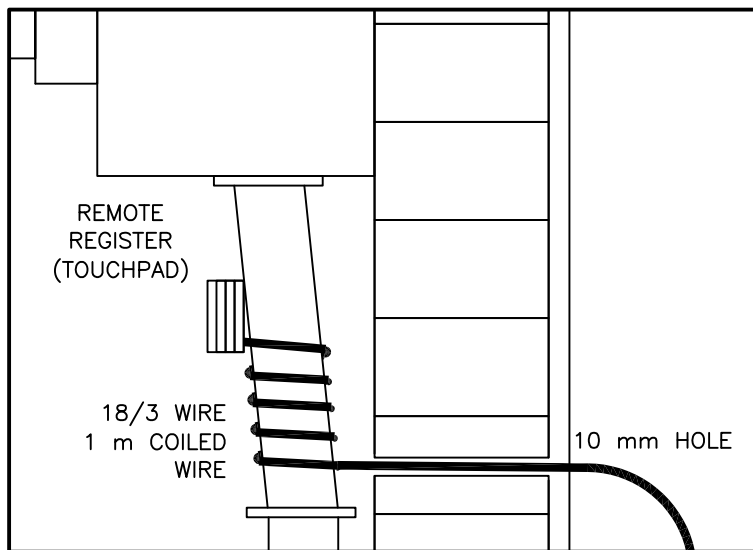
J.D.



REMOTE WATER REGISTER INSTALLATION



NO SPLICES, NO DIRECT BURY OD REMOTE WORKS



DETAIL OF REMOTE HEAD

NOTES:

1. REMOTE WATER METER REGISTER TO BE LOCATED IMMEDIATELY BELOW ELECTRIC METER SECURED TO STACK (REGISTER SUPPLIED & INSTALLED BY FESTIVAL HYDRO)
2. WE REQUEST THE ELECTRICAL CONTRACTOR INSTALL THE WIRE FROM THE ELECTRIC METER LOCATION TO THE WATER METER LOCATION. THE 18 GAUGE – 3 COND. SOLID COPPER WIRE IS TO BE OBTAINED AT THE FESTIVAL HYDRO OFFICES – 161 WELLINGTON STREET, STRATFORD, ONTARIO.



CITY OF STRATFORD STANDARD DRAWING

REGULATIONS REGARDING INSTALLATION OF WATER METERS

Residential & Commercial
AS PER 7.6.1.3.(5) ONTARIO BUILDING CODE

Drawn By: D.E.S.

Date: JULY 2009

Std. Dwg.: **W13**

Approved By:

J.S.