

PART E
SPECIFICATIONS

PART E - SPECIFICATIONS

GENERAL

E1. GENERAL

E1.1 These Specifications shall apply to the Work.

E2. EQUIPMENT AND TRUCK CLASS GROUPINGS

E2.1 SEMI-TRAILER DUMP DATA

E2.2 Semi-trailer length shall be measured in feet from inside tail gate to bottom front inside corner of trailer (along floor).

E2.3 Semi-trailer snow sides shall be 7' (84") high from floor of trailer.

E2.4 Semi-trailer snow sides shall be from tailgate hinge pin to within 18" of top front inside corner of trailer to allow for trap, if no tarp snow sides shall go total length of trailer.

E2.5 Failure to comply to above will result in trailer being sent home until it meets the City criteria.

E2.6 The City of Winnipeg WILL NOT repair, nor pay for any damage done to tarps or apparatus used to move tarps. When snow sides are in place and trailer is being used for snow removal.

EQUIPMENT CLASSES

E3. HYDRAULIC EXCAVATORS

E3.1 As described below:

(a) Buckets shall be OEM spec's for hydraulic excavators (3/8" steel thickness).

(b) The following buckets may be required on class D1, D2:

(i) **Regular:** OEM Ditching Bucket – minimum 60" wide (5')

(ii) **Extra Wide:** OEM Ditching Bucket Altered – minimum 84" wide (7')

(c) D1 Rubber-Tired (Truck-Type) Carrier-Mounted
Minimum reach 17 ft.

Shall be equipped with remote travel control

Bucket Sizes:

(d) D1 **Regular** ditching bucket - minimum 60" wide (5')

(e) D1A **Extra wide** ditching bucket - minimum 84" wide (7')

(f) D2 Rubber-Tired Single Engine - 4 Wheel-Drive
(Drott 40 Cruz-Air Type)

Minimum reach 17 ft

Bucket Sizes:

(g) D2 **Regular** ditching bucket - minimum 60" wide (5')

(h) D2A **Extra wide** ditching bucket - minimum 84" wide (7')

(i) D2B Special Loading Bucket: for High Snow Piles

Height – OEM Ditching Bucket – minimum 27" opening

Width – OEM Ditching Bucket/ Altered – mini. 60" wide to maximum 84"

Length – minimum 72"

Sides along extension – minimum 20" height to maximum 28"

E4. CRAWLER TRACTOR/DOZER

E4.1 As noted by the class code below: As noted by the class code below:

- (a) I4 118.0 to 142.9 drawbar horsepower
- (b) I5 143.0 to 174.9 drawbar horsepower
- (c) I6 175.0 to 209.9 drawbar horsepower
- (d) I7 210.0 to 249.9 drawbar horsepower
- (e) I8 250.0 to 294.9 drawbar horsepower

E5. RUBBER-TIRED FRONT END LOADER

E5.1 As noted by the class code below:

- (a) J2 Rubber-Tired - 4 Wheel Drive Loader
 - (i) SAE Net Horsepower 75 - 125 H.P.
 - (ii) Operating Weight 15,000 lbs. - 20,000 lbs.
 - (iii) Bucket Size 1.5 – 2.25 yd³.
- (b) J3 Rubber-Tired - 4 Wheel Drive Loader
 - (i) SAE Net Horsepower 100 - 150 H.P.
 - (ii) Operating Weight 21,000 lbs. to 25,000 lbs.
 - (iii) Bucket Size 2.25 - 3 yd³.
- (c) J4 Rubber-Tired - 4 Wheel Drive Loader
 - (i) SAE Net Horsepower Minimum 135 H.P.
 - (ii) Operating Weight 26,000 lbs. - 30,000 lbs.
 - (iii) Bucket Size 2.75 yd³ & over.
- (d) J5 Rubber-Tired - 4 Wheel Drive Loader
 - (i) SAE Net Horsepower Minimum 150 H.P.
 - (ii) Operating Weight 30,000 lbs. - 38,000 lbs.
 - (iii) Bucket Size 3.5 yd³ & over.
- (e) J6 Rubber-Tired - 4 Wheel Drive Loader
 - (i) SAE Net Horsepower Minimum 200 H.P.
 - (ii) Operating Weight 38,000 lbs. - 45,000 lbs.
 - (iii) Bucket Size 4.25 yd³ & over.
- (f) J7 Rubber-Tired - 4 Wheel Drive Loader
 - (i) SAE Net Horsepower Minimum 250 H.P.
 - (ii) Operating Weight 45,000 lbs. & over
 - (iii) Bucket Size 5 yd³ & over.

E6. RUBBER-TIRED SKID STEER LOADER AND TRACKLESS TRACTORS

E6.1 As noted by the class code below:

- (a) All units in J10 to J13 series to have heated cabs. All units shall have truck and trailer to move them to be included in hourly price quoted. No road travelling except for short distances. All units cannot be wider than the bucket or blade plowing width.
- (b) J10 Rubber-Tired Skid Steer Loader (Bridge Units)
 - (i) Bucket Minimum 34" – Maximum 47"

- (ii) Minimum 15 HP to maximum 42 HP
- (iii) Minimum weight 1900 lbs. (864 kgs)
- (c) J11 Rubber-Tired Skid Steer Loader
 - (i) Bucket Minimum 60" – Maximum 66"
 - (ii) Minimum 43 HP to maximum 72 HP
 - (iii) Minimum weight 5200 lbs. (2364 kgs)
- (d) J12 Rubber-Tired Skid Steer Loader
 - (i) Bucket Minimum 72" – Maximum 78"
 - (ii) Minimum 73 HP
 - (iii) Minimum weight 7000 lbs. (3182 kgs)
- (e) J13 Trackless Tractors for Sidewalk Snow Clearing
 - (i) Snow blade minimum 60" and maximum 66" wide
 - (ii) Minimum 100 HP

E7. MOTOR GRADER

E7.1 As noted by the class code below:

- (a) K3 125 to 139 flywheel horsepower
- (b) K4 140 to 159 flywheel horsepower
- (c) K5 160 to 170 flywheel horsepower
- (d) K6 180 and over flywheel horsepower.

E8. TRUCK-MOUNTED SNOW PLOW

E8.1 As noted by the class code below:

- (a) (G.V.W. rated as stamped on plate on door jam, by vehicle manufacturer).
- (b) P1 Single Axle (27,000 lbs. {12 240 kg} G.V.W.) with a reversible plow, capable of tripping, minimum 8' (2.4 m) plow-clearing width.
- (c) P2 Tandem Axle (43,000 lbs. {19 500 kg} minimum G.V.W.) with reversible plow, capable of tripping, minimum 8' (2.4 m) plow-clearing width.
- (d) P3 Four Wheel Drive (20,000 lbs. {9072 kg} minimum G.V.W.) with reversible plow, capable of tripping, minimum 8' (2.4 m) plow-clearing width.

E9. TRUCK-MOUNTED STREET SANDER - (MINIMUM 6 CU.YD/ 4.6 CU.M).

E9.1 As noted by the class code below:

E9.2 Sander Classes

- (a) SINGLE AXLE with NO COMPUTERIZED SPREADER CONTROL will be **S2**
- (b) SINGLE AXLE with COMPUTERIZED SPREADER CONTROL will be **S2C**
- (c) TANDEM AXLE with NO COMPUTERIZED SPREADER CONTROL will be **S3**
- (d) TANDEM AXLE with COMPUTERIZED SPREADER CONTROL will be **S3C**

E9.3 Sander license plate number to be used instead of unit number.

E9.4 All sanders shall bid on a per hour basis for each area. (North, East, South)

E9.5 For slotting purposes the Rate per Hour will be divided by Two. Allowing the truck to have the age clause applied to it, plus the sander will have the age clause applied to it. That rate will then be entered for slotting.

(a) Eg: price per hour \$30.00

1997 sander	\$15.00	–(\$15.00x 20% =\$3.00)	=	\$12.00
1997 truck	\$15.00	–(\$15.00 x20% =\$3.00)	=	\$12.00
				<u>\$24.00</u>

(b) FAILURE TO SUPPLY registration may cause unit not to be hired.

E10. TRUCK-MOUNTED STREET SANDER WITH COMPUTERIZED SPREADER CONTROLS

E10.1 **NOTE:** For next Snow Season 2005-2006: All computerized sanders shall have sensors on the gate that are programmed into the computer to control amount of sand / salt to spinner and to avoid tampering with gate settings. Preference will be given to computerized sanders. All computerized sanders will be tested and calibrated to City of Winnipeg specifications for accuracy.

- (a) The first test is free if others are required the cost of the inspection will be paid by the Contractor.
- (b) All hired sanders shall be equipped with a computer controlled sand spreader control system with closed loop and internal recording or equivalent.
- (c) All computers shall be accessible, adjustable, able to accept and maintain the information supplied by the City of Winnipeg for sanding and salting of streets. Should a computer not readily accept the information supplied by the City on it's first attempt, any further costs to adjust the computer will be borne by the Contractor, until a computerized sander is fully operational. It will not be considered to fall into the S2C and S3C class of computerized sanders.
- (d) All sanders shall first pass an inspection by the City of Winnipeg Equipment inspector on the accuracy and ability to accept and maintain information supplied by the City before the sander will be slotted as computer controlled.

E11. SNOW BLOWERS

E11.1 V1 Sidewalk Snow Blowers Mounted on Skid Steer Loaders

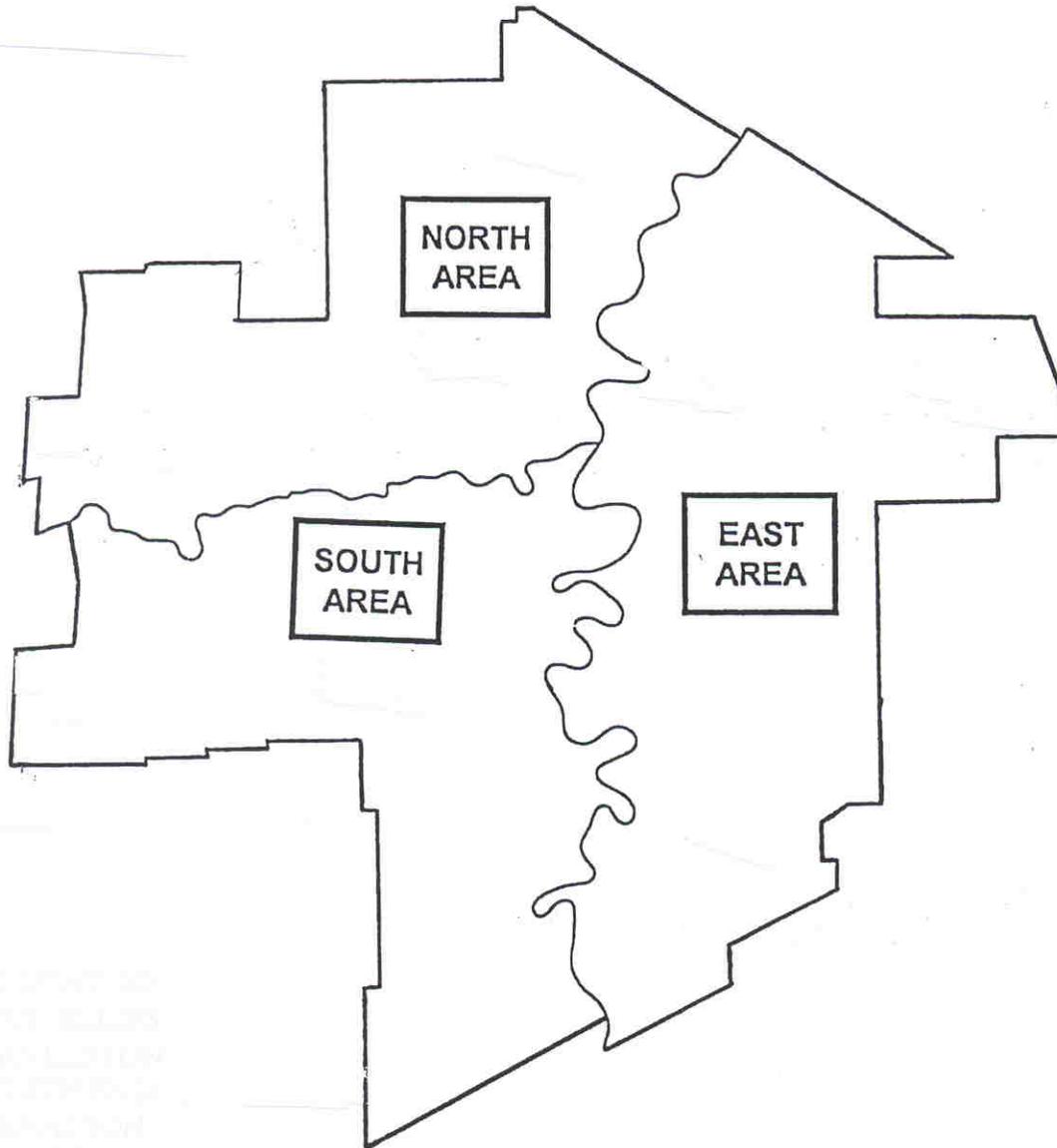
- (a) Minimum 42" - maximum 60" width. Cutting height approx. 30", minimum 270-degree rotation on discharge chute, full remote control of chute and casting while blowing snow.
- (b) All controls to be mounted inside cab. All cabs shall be enclosed and heated.
- (c) V2 Loader-Mounted Snow Blower
 - (i) Heavy-duty industrial-type, 8' blower clearing width, minimum 180 HP.
 - (ii) Shall be able to blow (load) snow over a minimum of 8' sides.
- (d) V3 Truck-Mounted Snow Blower
 - (i) 8' blower clearing width.
 - (ii) Shall be able to blow (load) snow over a minimum of 8' sides.
- (e) V4 Sidewalk Snow Blowers Mounted on Trackless Tractors
 - (i) Minimum 60" to maximum 66" width. Cutting height approx. 30", minimum 270-degree rotation on discharge chute, full control of chute and casting while blowing snow.

APPENDIX A - AREA BOUNDARIES



CITY OF WINNIPEG

STREETS MAINTENANCE DIVISION



APPENDIX A - SAMPLE WORK TICKET

CW 318-2000 03

**CITY OF WINNIPEG
 PUBLIC WORKS**

IF SHIFT
 WORKED IS
 NIGHT SHIFT
 1 ACTUAL
 2 DATES
 SHOULD BE
 SHOWN AS
 INDICATED

DATE **MAY 21-22 / 2002**

WORK ORDER NO. / ACCOUNT NO. / TASK NO.

TO BE COMPLETED
 BY CITY OF WINNIPEG
 PERSONNEL

LOCATION OF WORK **PORTAGE AND MAIN**

EQUIPMENT SUPPLIER NUMBER

EQUIPMENT
 UNIT NUMBER
 MODEL & TYPE
 LIST ALL
 ATTACHMENTS
 EG. WING & HRS.
 WORKED

EQUIPMENT UNIT NO.	DESCRIPTION	CITY UNIT NO.	USE 24 HOUR CLOCK		OPERATING TIME
			START	FINISH	
123	140G PATROL	1	22:00	07:00	9HRS.
			↑	↑	

START & FINISH
 TIMES MUST BE
 SHOWN USING
 24 HOUR CLOCK

OWNER OF EQUIPMENT **FAMOUS EQUIPMENT RENTALS - 12345**
 (PLEASE PRINT)

COMPANY NAME
 &
 SUPPLIER NUMBER

OPERATORS NAME (PLEASE PRINT) OPERATORS SIGNATURE

IF OPERATOR'S SIGNATURE
 IS ILLEGIBLE, NAME MUST
 BE PRINTED WHERE
 PROVIDED OR BELOW
 SIGNATURE

COMMENTS: (LAY OFF, BREAKDOWN, TRANSFERRED, DISMISSED, ETC.)
 (ATTACHMENTS USED E.G. BLADES, RIPPER, ETC.)

NO LUNCH BREAK
 LAID OFF

WORK
 TICKET
 NUMBER

134651

FOREMAN'S NAME
 MUST BE LEGIBLE

DISTRIBUTION
 WHITE - 1220 PACIFIC AVENUE
 YELLOW - FOREMAN
 PINK - RETAINED BY OPERATOR

FOREMAN'S SIGNATURE

CHECK ONE					
N	E	S	HYDRO	WW	
PARKS		CENTRAL SERVICE		P.M.D.	

TO BE COMPLETED BY
 CITY OF WINNIPEG
 PERSONNEL