

**CITY OF WACONIA
RESOLUTION NO. 2015-242**

**RESOLUTION AUTHORIZING APPROVAL OF AMENDED 2015 CITY OF WACONIA
WINTER MAINTENANCE POLICY**

WHEREAS, one of the City’s Key Outcomes is to “Maintain Multi-Modal Transportation Infrastructure System”; and

WHEREAS, the Public Services Department annually reviews the current “Winter Maintenance Policy” for potential amendments each year; and

WHEREAS, the recommended amendments for 2015 are bulleted below; and

- Minor Equipment Changes in Section 1 of the Policy, in relationship to equipment acquisitions through the calendar year of 2015.
- Updates including new sidewalk and trail snow removal areas.
- New item in Section 14, Page 10 is language regarding staff training.
- Minor changes to plow routes allowing improved customer service.

WHEREAS, resources are budgeted to provide optimum and quality winter maintenance services within the Street Department General Fund Budget.

NOW, THEREFORE, BE IT RESOLVED That the City Council of the City of Waconia hereby authorizes approval of amended “2015 City of Waconia Winter Maintenance Policy”.

Adopted by the City Council of the City of Waconia this 19th day of October, 2015.

James P. Sanborn, Mayor

Attest: _____
Susan MH Arntz, City Administrator

M/ _____	Erickson	_____
	Bloudek	_____
S/ _____	Carrier	_____
	Ayers	_____
	Sanborn	_____



2015

CITY OF WACONIA WINTER MAINTENANCE POLICY



Public Services Department
City of Waconia
10/19/2015

Contents

1. PURPOSE & INTRODUCTION	3
2. COMENCEMENT OF OPERATIONS	4
3. ANTI-ICING	4
4. SUSPENSION OF OPERATIONS	5
5. PLOW ROUTE & SEQUENCING	5
6. LEVEL OF SERVICE	5
7. PLOWING & DE-ICING	6
8. SERVICE LEVEL STREETS	6
9. PARKING RESTRICTIONS	6
10. CITY ALLEY/SIDEWALK/TRAILS/PARKING LOTS SERVICE LEVEL	7
11. RESIDENTIAL & PRIVATE SIDEWALK CRITERIA	7
12. RIGHT OF WAY USE	8
13. RESIDENT RESPONSE	10
14. TRAINING	10
15. EXHIBIT A	11
16. EXHIBIT B	12
17. EXHIBIT C	13
18. EXHIBIT D	15
19. EXHIBIT E	16

**CITY OF WACONIA
SNOWPLOWING AND ICE CONTROL POLICY**

**Adopted 12/ 1/ 1999
Revised 11/22/2010
Revised 10/1/2012
Revised 10/21/2013
Revised 10/20/2014
Revised 10/19/2015**

1. PURPOSE AND INTRODUCTION:

The City of Waconia has determined that it is in the best interests of the residents for the City to assume basic responsibility for control of snow and ice on the streets under the jurisdiction of the City. Appropriate snow and ice control is necessary for emergency services as well as routine travel. Providing this service in a cost-effective manner is a discretionary decision of the City Council. The City will use City employees, equipment and/or contract services as deemed appropriate to provide the service. Therefore, this policy is needed to provide direction for these operations and guidelines for employees and residents based upon available resources.

The City of Waconia has approximately 56 miles of streets, 15 miles of sidewalks and 14 miles of trails under its jurisdiction. This policy is intended to provide guidelines for snow and ice control operations for streets under the City's jurisdiction. Sidewalks adjacent to City owned property and winter trail maintenance are also covered under this policy. This policy supersedes any and all previously written or unwritten policies of the City regarding snow and ice removal. The Public Services Department will review this policy periodically and will amend it as appropriate.

In the event of equipment failure, extreme snowfall, or other anticipated events, deviation from any standards may be expected.

The City currently has the following equipment available for implementation of this policy:

- a) 1998 John Deere 772CH Grader w/14' moldboard and 12' wing
- b) (#42) 2012 Ford 1 Ton utility truck w/dump body, multi-function plow
- c) (#159) 2013 Kubota 4x4 mower w/4'x2' PTO powered snow blower & broom attachment
- d) 2001 John Deere 644H loader w/12' reversible plow, 12' wing and 8' two stage snow blower attachment
- e) (#23) 2001 International Model 2554 Dump truck w/11'/reversible plow, 10' wing and stainless steel spinner sander
- f) (#160) 2013 Melroe Model A770 Bobcat Skid steer loader w/snow bucket and Melroe Bobcat 84" hydraulic two stage snow blower and 8'0" Blizzard Plow
- g) (#48) 2015 Ford 550 1 Ton utility truck w/dump body, multi-function plow and spinner sander
- h) (#161) 2013 Melroe Model A770 Bobcat skid steer loader, w/multi-function plow and 7' broom attachment and Bobcat 84" hydraulic two stage snow blower
- i) (#33) 2007 Ford 1 Ton utility truck w/service dump body & multi-function plow

- j) (#43) 2013 Ford F-350 Multi-function plow
- k) (#28) 2005 Sterling Dump Truck with 11' reversible plow, 10' wing, spinner sander, and 10' fixed angle underblade
- l) (#32) 2007 Mack Granite truck with 11' reversible plow, 10' wing, spinner sander, and 10' fixed angle underblade
- m) (#36) 2008 Mack Granite truck with 11' reversible plow, 10' wing, spinner sander, and 11' fixed angle underblade
- n) (#37) 2007 F-450 utility truck w/dump body, multi function plow & spinner sander
- o) (#38) 2007 F-450 utility truck w/dump body, multi function plow & spinner sander
- p) (#40) 2008 Mack Granite tandem dump truck w/11' reversible, 11' underblade, 10' wing w/spinner sander
- q) (#167) 2015 Melrose Model 5600 Tool Cat w/ 68" broom and 66" two stage blower
- r) (#164) 2014 Toro 5910 w/power broom
- s) (#134) 2007 Cat 430EIT Backhoe with Cat 12' snow pusher
- t) (#135) 2005 John Deere Tractor w/multi-function plow

2. COMMENCEMENT OF OPERATIONS:

Snowplowing and/or ice control operations shall commence under the direction of the Public Service Director or his designated representative will decide when to begin snow and/or ice control operations. The following criteria constitute the decision:

- a) Air and pavement temperatures
- b) Anti-icing operations may occur 24 hours in advance of an approaching storm
- c) Measurable snow accumulation, with continual snow fall, warrants commencement of plowing operations;
- d) Drifting of snow may warrant commencement of partial or full operation, depending upon conditions;
- e) Icing of pavements may also warrant partial or full operation depending upon extent and conditions.
- f) The Director, or his designated representative, shall determine the time to start operations and the extent of the operations.

3. ANTI-ICING:

A new method in winter maintenance which assists with preventing the bond of snow to pavements or street surfaces. The product is a liquid solution, or "salt brine" which is made up of water that has been mixed with rock salt or sodium chloride to a 23% salt concentration. The liquid is effective to a pavement temperature of 15 degrees.

Snow and ice control operations are expensive and involve the use of limited personnel and equipment.

To assure completion of collector or priority areas, snow removal may be conducted on a 24 hour basis, which may result in snow removal equipment being operated in residential areas

during the evening, night and early morning hours. Activity to this effect will be determined by the Public Services Director, or his designated representative.

4. SUSPENSION OF OPERATIONS:

Operations will continue until all roads are passable. Widening and clean-up operations may continue immediately or on the following work day, depending upon conditions and circumstances. Safety of the plow operators and the public is important. Therefore, snowplowing operations may be terminated after 12-14 hours to allow personnel adequate time for rest. There may be instances where this is not possible, depending on storm conditions and other circumstances. Operations may also be suspended during periods of limited or zero visibility. Any decision to suspend operations shall be made by the Public Services Director and shall be based on the conditions of the storm.

5. PLOW ROUTES AND SEQUENCING:

There are City streets, alleys, public sidewalks and trails which abut City owned facilities, public parking lots and ice rinks under the City's jurisdiction which are affected by this policy. Sequencing for snow removal by the City crews is as follows:

- a) Collector Streets (Exhibit A)
- b) Residential Streets
- c) Alleys
- d) Public Parking Lots (Exhibit B)
- e) Sidewalks and Trails (Exhibit C)
- f) Ice Rinks

However, it should be noted that this sequence may vary from time to time based on the observation and decision of the Public Services Director or his designated representative. Parking lots, sidewalks, trails, and ice rinks may be cleared in conjunction with street routes or after street routes have been completed.

The Public Services Director has the responsibility of determining plowing routes and sequencing of operations. The Public Services Director will prepare a copy of plow routes and maintain a copy at City Hall and Public Services after approval by the City Council. The Public Services Director or his designated representative shall retain the latitude to adjust sequencing or route assignments based on storm conditions, equipment availability and/or other conditions warranting changes.

6. LEVEL OF SERVICE:

The intent of this policy is to provide safe winter driving conditions appropriate for the type of travel necessary on City streets. The level of service described herein shall be considered a guideline with the understanding that immediately after a storm, the level of service provided may be less than described herein and may vary across the City depending on storm conditions and other circumstances.

7. PLOWING/DE-ICING:

Streets shall be plowed and/or chemically treated to provide intersection approaches and curves to be as safe as conditions allow. Gravel and dirt road services shall be plowed to provide a hard packed surface with sand and/or abrasives spread as necessary for traction.

The City will use sand, salt and other chemicals when there is safety, hazardous ice or slippery conditions. The City is concerned about the cost and effect of such chemicals on the environment and may limit its use for that reason.

8. SERVICE LEVEL STREETS:

During normal snowfalls, streets will be plowed full width as soon after the initial pass as possible. During heavier snowfalls the streets shall be plowed as wide as possible, initially, and widened as the storm intensity lessens. After the storm passes, clean up operations shall begin to clear intersections and snow storage areas along corners and boulevards, and center wind rows in the downtown business district. (Exhibit D)

- It is the City's intent to complete the initial plowing and widening operations within twenty-four (24) hours of cessation of the storm.
- Clean up operations should be complete within forty-eight (48) hours for light snowfalls
- Within seventy-two (72) hours for heavy snowfalls.
- Major blizzards will require additional time.

9. PARKING RESTRICTIONS:

On-street parking is not compatible with efficient snowplowing operations. Vehicles left parked on the street for extended periods of time create problems for snowplows as well as safety problems with packed snow and ice around the vehicle. Ticketing and/or towing these vehicles may occur in conformance with city ordinance.

634.01 Winter Parking.

Subd. 1. Winter Parking. No person shall park or leave standing any vehicle, whether attended or unattended, upon any avenue, street or highway within the City between the hours of 12 Midnight and 8:00 a.m. from November 1 through April 1.

Subd. 2. Exceptions to Winter Parking System. The winter parking system described in Subd. 1, above, shall not apply and, instead, there shall be no parking whatsoever between the hours of 2:00 a.m. and 6:00 a.m. from November 1 through April 1 of each winter season on the following portions of the following streets:

- Main Street between Pine and Maple Streets;
- First Street between Spruce and Maple Streets;
- Second Street between Vine and Elm Streets;
- Vine Street between Second and the alley running between Lake and Main Streets;
- Olive Street between Third and the alley between Lake Street and Main Streets;
- Maple Street between First and Main Streets;
- Elm Street between Third and Main Streets;
- Pine Street south of Minnesota Trunk Highway No. 5;
- Eighth Street;
- Industrial Boulevard;

- Industrial Boulevard West;
- Mill Lane.

Subd. 3. Handicapped Vehicles. Any vehicle displaying a valid temporary or permanent handicapped identification certificate or insignia issued by the Minnesota Department of Public Safety pursuant to Minnesota Statutes Section 169.345 or any other valid temporary or permanent handicapped identification certificate or insignia issued by another state within the United States shall be exempt from the winter parking restrictions set forth in Subd. 1, above, but shall be subject to all other parking regulations set forth in this Chapter.

Subd. 4. Parking Lots. Parking in public parking lots in the City shall be prohibited upon the accumulation of two (2) inches or more of snow and until such time as the snow has been completely cleared from the parking lot.

Subd. 5. Alleys, Sidewalks, and Public Grounds. No vehicle shall be parked on any public alley for more than fifteen minutes at any time during the period from November 1 to April 1 of each winter season. No vehicle shall ever be parked on any sidewalk or public ground at any time.

Subd. 6. Penalty. Any person, firm, or corporation who shall violate the provisions of this Section shall be subject to having the vehicle ticketed by a Police Officer or Carver County Sheriff's Deputy and removed with the cost of such moving and storage to be paid by the owner thereof pursuant to Section 630.05 of this Code.

Additionally, after large accumulations of snow, the City may find it advisable to prescribe parking restrictions to facilitate snowplowing and clean-up operations.

10. CITY ALLEY/SIDEWALK/TRAILS/PARKING LOTS SERVICE LEVEL:

Winter maintenance on sidewalks, trails and parking lots are based on use and priority. It is the policy of the City to remove snow from sidewalks, trails and parking lots in accordance with our Winter Maintenance Policy. Exhibit C identifies each sidewalk, trail or parking lot and its priority.

1. Alley snow removal occurs after all streets are clear of snow and treated to meet the expectations within this document.
2. The designated sidewalks, trails and parking lots are normally plowed, blown or swept. The method of snow removal depends on the amount and type of snowfall.
3. Designated sidewalks, trails and parking lots will be cleared as thoroughly as possible, but need not be cleared of all snow or ice, nor maintained to bare pavement.

11. RESIDENTIAL/PRIVATE SIDEWALK CRITERIA:

Sidewalks which abut private property shall not normally be cleared of snow by City staff unless designated within this policy. It shall be the responsibility of the property owner to keep sidewalks clear of snow or ice in accordance with City Ordinance 320.06. If notice has been sent to owner/occupant and snow has not been removed, the City may choose to remove the snow and ice and charge the cost of removal to the property owner. The property owner would receive an actual

cost invoice for the service provided by the City. The City reserves the right to charge fees for snow removal for uncompleted residential sidewalks in accordance to the City's adopted fee schedule under Section 1100 of the City Ordinances.

12. RIGHT-OF-WAY USE:

The intent of the right-of-way including cul-de-sac's is to provide room for snow storage, public and private utilities, sidewalks, street lights, signage and other City uses. However certain private improvements such as mailboxes are permitted within this area. Other Private improvements are not permitted.

However, snow storage is not recommended in rain gardens, or bio-filtration swales located within any right-of-way. These storm water features are designed to remove larger impurity items, and sediment from local streets. The City of Waconia will notify residents who reside adjacent to such storm water treatment areas. The intent is to educate residents of the impacts that may occur as a result of snow placement in dedicated storm water treatment areas.

a. **Mailbox**

Mailboxes must be installed in such a manner as to provide access by Post Office personnel or other parcel carriers and to allow for Public Services equipment to maintain the streets. Newspaper boxes installed under mailboxes in most cases do not allow for snow removal equipment to pass under and can cause an indirect hit to the mailbox. A drawing showing the proper details for mailbox placement is attached as Exhibit E. Mailboxes and posts should be constructed securely enough to withstand snow rolling off a plow or wing. Any posts that are rotten or too weak to withstand winter weather will not be the responsibility of the City.

The City will bear the cost of the repair of a damaged mailbox only if it is a result of City equipment actually hitting the mailbox, not from the weight of snow. The City will install replacement parts or mailbox of standard size non-decorative type. The City will make temporary repairs to mailboxes for mail delivery if City plows actually hit a mailbox. When weather and time permit, the Public Services Department will complete the repairs.

Damage resulting from snow is the responsibility of the property owner/resident.

A property owner assumes all risk and responsibilities for replacement of mailboxes and supports that are constructed of materials such as, but not limited to, brick and mortar, stone aggregate, ornamental railings, or antique type support. The City of Waconia assumes a value of no more than \$50.00 for mailboxes of this type, which are hit by a City snow plow.

Snow plow operators make every effort to remove snow as close to the curb line as practical to provide access to mailboxes for the postal department. It is not possible to provide perfect conditions and minimize damage to mailboxes with the size of equipment the City operates. The final cleaning adjacent to mailboxes is the responsibility of each resident.

b. **Boulevard Sod**

The City shall, when it receives a complaint, record the location of alleged damage to sod caused by contact with City equipment. The location will be reviewed by the Public Services Department in the spring when the extent of the alleged damage can be verified. Frequently the damage looks more severe immediately after occurring than it does when the snow has melted in the spring. If the sod needs repair as determined by the Public Services Staff, they shall seed the damaged area according to weather conditions. City staff will water the new seed once; it will then be the residents' responsibility to water and maintain the damaged area. The cost of black dirt and seed for repairs are borne by the City.

c. **Irrigation, Lighting, Trees, Fences Etc.**

The City will assume no responsibility for damage to underground irrigation systems, private lighting systems, trees, shrubs, specialty grasses, rocks, fences, retaining walls or similar landscaping installed in the City controlled right-of-way or easements.

Garbage cans left for pickup by a resident must be located in the driveway of the residence. Storage of garbage cans in the roadway surface or alley in which snow is to be removed requires extra staff time due to potential future drainage issues from the inability to clean to the curb line or entire alley way and potential causes of safety issues during the snow removal process.

d. **Driveway or Private Street Access**

The City of Waconia reminds everyone, including commercial snow removal operators, that it is against state law to deposit snow on to a public roadway. Dumping or plowing snow on to a roadway can create a slippery area, frozen rut or bump, which could contribute to a motor vehicle and pedestrian accident. Residents should be aware that they may have to clear their driveways a second time after their street has been plowed.

The following tip may be of assistance for proper placement of snow and minimize your inconvenience when a snow plow comes along after you've cleared your driveway. First, place as much snow as possible from the end of your driveway downstream in the direction of traffic. Second, clear an area upstream from your driveway to create an open "**Pocket**". Much of the snow pushed by the plow truck will empty into this pocket and less will deposited in the driveway entrance. You must maintain this area throughout the winter for it to be effective. Try to prevent large piles of snow which obstruct vision of driveways or walks.

The City of Waconia cautions anyone working close to a roadway to watch for oncoming traffic and warns drivers to be alert to people clearing snow. Unknown objects left in the snow may be displaced from the snow movement from the snow plow vehicle.

13. RESIDENT RESPONSE:

Concerns or questions regarding snow and ice control or damage shall be taken during normal working hours and handled in accordance with the following items. It should be understood that complaint responses are to ensure that the provisions of this policy have been fulfilled and that all residents of the City have been treated uniformly. It is the City's intention to log all complaints and upgrade this policy as necessary in consideration of the constraints of our resources. In the event of people registering a complaint, the Director, or his designated representative, shall make on-site visits to the site indicated in the complaint, if the complaint is such that site visitation is indicated.

14. TRAINING:

The City annually provides training opportunities for its operators on equipment operations, calibration, application of de-icing materials, and safe winter driving through in-house or external sources. Most staff members are certified for winter maintenance operations through the Minnesota Pollution Control Agency, or the American Public Works Association. It is our goal to maintain trained operators to provide quality winter maintenance services while protecting the environmental resources of the community. Prior to each winter season staff are assigned a plow route during a formal meeting process where information is provided on Policy updates and community changes for service. Each staff member conducts an analysis of their assigned plow route for changes, and marks features deemed necessary in the event of excessive snow fall accumulations. During operations of snow removal please avoid following snow removal equipment to closely. Please allow ample distance between the plow equipment to allow City staff the ability to visually see your vehicle. Please avoid the use of snow storage piles in cul-de-sacs for play areas. Staff may be conducting snow removal operations, and will not be cognizant of individuals playing in stored snow piles.

Exhibit A- Collector Streets

Street	Point to Point
Maple St.	Hwy 5 to Lake St.
Olive St.	Hwy 5 to Lake St.
Elm St.	Hwy to Lake Access
Pine St.	Hwy 5 to Lake St.
Main St.	Walnut St. to Old Beach Lane
1 st St.	Spruce St. to Maple St.
2 nd St.	Olive St. to Pine St.
Vine St.	3 rd St. to Lake St.
Birch St.	Hwy 5 to Lake St.
Lake St.	Walnut St. to Main St.
Waconia Parkway North	Main St. to Co. Rd. 10
Burandt Blvd	Farmline Rd. to Walnut St.
Farmline Rd.	Waconia Parkway South to Burandt Blvd.
Oak Ave	Waconia Parkway South to S. City Limits
Community Dr.	Oak Ave to Parking Lot
Strong Dr.	Hwy 5 to Waconia Parkway South
Frontage Rd.	Hwy 5 to Hartmann Dr.
Sparrow Rd.	Oak Ave. to Co. Rd. 10
Fountain Ln.	Sparrow Rd. to Silver St.
Marketplace Dr.	Co. Rd.10 to Mill Rd.
Marketplace Rd.	Hwy 5 to Marketplace Dr.
Sierra Parkway	Hwy 284 to Fountain Ln.
Cherry St.	Hwy 5 to Maple St.
Cherry Drive	Cherry Street to Cul-de-sac
Tenth Street	Main Street Ext. to TH 284
Airport Road	Main Street Ext. to East Corp. Limits
Interlaken Parkway	CSAH 10 to Cul-de-sac

Exhibit B-Public Parking Lots

LOT #1	236 1 st Street West
LOT #2	17 1 st Street West
LOT #3	201 Vine Street South
LOT #4	200 2 nd Street West
LOT #5	116 1 st Street West
LOT #6	141 Main Street West- Upper Ramp
LOT #7	141 Main Street West- Lower Ramp
LOT #8	26 Maple Street South
LOT #9	130 Cedar Street North
LOT #10	1200 Oak Avenue
LOT #11	1600 Community Drive

Exhibit C- Sidewalks and Trails Plowing Plan

Day One	Type	Street/Area	To/From
	Sidewalk	101 1 st Street West	(South Side)
	Sidewalk	101 Main Street East	(City Square Park)
	Trail	1200 Oak Avenue	(Brook Peterson Park)
	Trail	130 Cedar Street North	(Cedar Point Park)
	Sidewalk	17 1 st Street West	Elm Street (North & East Side)
	Sidewalk	1 st Street	Main Street
	Sidewalk	Vine Street	First Street to Third Street
	Sidewalk	225 1 st Street West	(East Side)
	Sidewalk	26 Maple Street South	(North Side)
	Sidewalk	Pinehill Boulevard	Through Park
	Trail	Burandt Boulevard	Farm Line Road to Kinder Drive
	Trail	Community Drive	Oak Avenue- Wildcat Way
	Trail	Highway 284	10 th Street to Highway 5
	Trail	Creekside Drive	Oak Avenue
	Trail	Farm Line Road	Burandt Boulevard to Waconia Parkway South
	Trail	CSAH 10	Highway 5 to Ravenwood Drive
	Trail	Highway 5	Waconia Parkway to South- Maple Street
	Trail	Highway 5	Oak Avenue to CSAH 10 Including Underpass Connection
	Trail	Mill Lane	Market Place Drive to Highway 5
	Trail	Main Street	Highway 5 to Old Beach Lane
	Trail	Main Street	Birch Street- Vista Boulevard
	Trail	Oak Avenue	Waconia Parkway South on Highway 5 (East & West Sides)
	Trail	Ravenwood Drive	Highway 10- Sparrow Road
	Trail	Sparrow Road	Lenox Drive- Highway 284
	Trail	TH 284 Sparrow Road	Sierra Parkway
	Trail	Waconia Parkway North	Scott Lane to Highway 10
	Trail	Waconia Parkway South	Farm Line Road- Oak Avenue
	Trail	Waconia Parkway South	Farm Line Road- Highway 5
	Trail	Brook Peterson Park	Community Drive- Baseball Parking Lot- Pond Circle Path

Exhibit C - Sidewalks and Trails Plowing Plan Cont'd

Day Two	Type	Street/Area	To/From
	Trail	1150 Burandt Boulevard	(Pheasant Ridge Park)
	Sidewalk	1200 Oak Avenue	(Brook Peterson Park)
	Trail	1205 Highway 284	(Fox Run Park)
	Trail	1270 Interlaken Parkway	(Interlaken Park)
	Trail	1300 Highway 284	(Wildhurst Park)
	Trail	1401 Mockingbird Drive	(Bent Creek Park)
	Trail	1431 Sparrow Road	(Oakpointe Park)
	Trail	Interlaken Park	Interior Trails
	Sidewalk	Interlaken Parkway	Park Road Frontage
	Sidewalk	Interlaken Parkway	Reitz Lake Park Frontage
	Sidewalk	Airport Road	CSAH 59 to Park Frontage
	Sidewalk	Somerwood Drive	Airport Road to Oakmont Lane
	Sidewalk	Market Place Drive	CSAH 10 to Mill Lane
	Sidewalk	Cherry Drive	Cherry Street to Public Property Terminus
	Sidewalk	Vista Boulevard	Main Street to Legacy Village Park
	Trail	1568 Woodlawn Circle	Park Point Road and Dead End
	Trail	1702 Ravencroft Road	(Waterford Park)
	Trail	Mill Lane- Marketplace Drive	Industrial Boulevard West
	Trail	Old Beach Lane	Main Street to Cul-del-sac
	Trail & Sidewalk	Vista Point Park	Beach Road to Old Beach Lane
	Trail	Willowbrooke Lane	Woodlawn Circle
	Trail	Cherry Street	Highway 5 to Fifth Street
	Trail	Woodlawn Circle	Woodlawn Circle

Blowing Segments

Day Two	Type	From	To
	Trail	TH 284; CSAH 10	Sparrow Road
	Trail	Tenth Street; TH 284	Pinehill Boulevard
	Trail	Main Street; Yellowstone Trail	Old Beach Lane
	Trail	Fountain Lane; Sparrow Road	1826 Fountain Lane

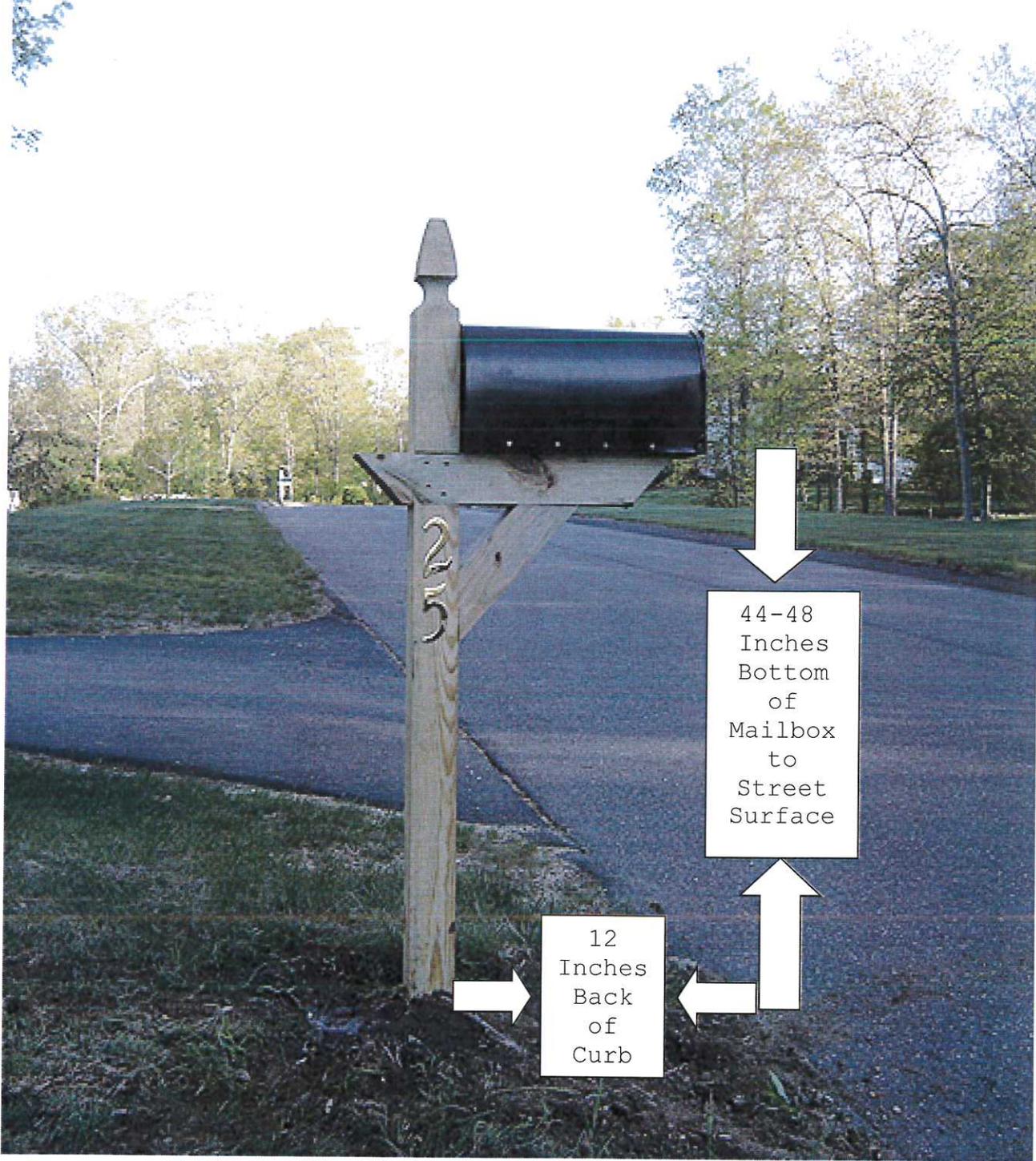
Truck Wing

Day Two	Type	From	To
	Trail	Oak Avenue- Waconia Parkway South	Community Drive (East & West Side)

Exhibit D- Wind Row Streets

Street	From	To	Number of Blocks
Pine Street	1 st Street	2 nd Street	1
Vine Street	Lake Street	2 nd Street	3
Spruce Street	1 st Street	2 nd Street	1
Walnut Street	Lake Street	3 rd Street	4
Elm Street	Main Street	3 rd Street	3
2 nd Street	Orange Street	Birch Street	1
1 st Street	Walnut Street	Cherry Street	1
Maple Street	Main Street	TH Five	6
Olive Street	3 rd Street	Lake Street	4
1 st Street	Spruce Street	Maple Street	5
2 nd Street	Spruce Street	Oak Street	1
4 th Street	Maple Street	Olive Street	2
2 nd Street	Pine Street	Olive Street	3
Main Street	Maple Street	Pine Street	1
Lake Street	Cedar Street	Walnut Street	1
Lake Street	40 North Maple Street		0.5
Elm Street	Fifth Street	TH Five	1
Fourth Street	Elm Street	Olive Street	1
Total			39.5

Exhibit E- Mailbox Installation Detail



CITY OF WACONIA MAILBOX INSTALLATION DETAIL