

Community Development Department

To: Mayor and (ity Courcil Masses)

For bricking C 9/10/07 Mtg.

45175 W. Ten Mile Road Novi, MI 48375

Memo

Date:

September 5, 2007

To:

Clay Pearson

Through:

Steve Rumple

From:

John Hines

RE:

Interactive Voice Response (IVR) System

The Community Development Department is pleased to announce the successful implementation of the Interactive Voice Response (IVR) System, an inspection hotline system targeted toward improving customer service and streamlining the building inspection request systems within the department. The phone-in hotline system allows homeowners and contractors to contact the City for virtual around-the-clock access and ability to schedule inspection requests.

Following approval of this system by the City Council earlier this year, the IVR system was purchased through the Selectron Company and implemented by a team from both the Information Technology and Community Development Departments. It has been open for use to the public since July 18, 2007. Since that time, our department has received 2,722 calls on the system. See exhibit "A" for the break down of the times and days that the calls were received.

Our office believes that the system will provide a higher level of service to anyone requesting or obtaining a permit to construct, alter or renovate a building or structure within the City of Novi. Permit holders may be residential builders, homeowners, commercial contractors, foundation contractors, and contractors who perform electrical, mechanical and plumbing work.

The system allows the permit holder to call in at virtually any hour of the day or night and schedule inspections, cancel inspections, obtain results, and to leave the inspector a message. This message feature is helpful if the permit-holder wishes to request a certain

Building 248-347-0415 248-735-5600 Fax Planning 248-347-0475 248-735-5633 Fax Ordinance Enforcement 248-735-5678 248-735-5682 Fax

time for an inspection or even provide a lock box number if the permit holder cannot be available at the site.

The system also gives the inspector the ability to post inspection results from the field via a cellular telephone. An inspector can post an approval or use correction codes where code violations occur. Inspectors can also leave a message for the contractor or permit holder regarding any specific concern or provide an explanation of the inspection performed.

This entire system is automated and a report is run daily to collect, review and disseminate the information collected. The system saves time and reduces errors that may occur in a non-automated system. Once a permit-holder is familiar with the system, the process for typing in the codes should become routine.

We conducted a survey to determine how well the system has been accepted by the public. It consists of approximately forty patrons chosen at random and asked six questions relating to the use of the system. See exhibit "B". Most of our survey results show that the system is easy to use and convenient. In fact, most believe that it is so user-friendly that a training session is not necessary.

However, there are a few concerns that our team will need to investigate. A foremost concern is that the system takes too long, and there are too many selections. Secondary concerns are not having the capability of cancelling for the next day after the cut off time for inspections to be posted for the next day and not having an option to go back into the system once confirmation is given by the system. These concerns will be followed up and addressed in a subsequent report

The system will continue to be marketed to let the clients know the system is available for their use. Exhibit "C" and "D" are copies of the press release and flyer, respectively, already made available to the public. It has also been posted on the Internet. In addition, we plan to produce a small wallet size user card for our patrons. This will have all of the instructions needed to make it even more convenient for use.

John H Hines Building official



System Usage By Hour Report

Server:

NOVI15

Start Date:

7/16/2007

End Date:

8/29/2007

pplication	Hour	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Tota
elephony : VoicePermits									
	01:00	0	16	0	0	0	0	0	0
	02:00	0	0	0	0	0	0	0	0
	03:00	0	0	0	0	0	0	0	0
	04:00	0	0	0	0	0	0	0	0
	05:00	0	0	0	0	0	0	0	0
	06:00	0	1	0	0	0	0	0	1
	07:00	0	3	7	0	1	2	0	13
¥	08:00	0	11	24	5	12	9	0	61
	09:00	2	42	37	45	43	28	0	197
	10:00	0	47	67	47	47	47	2	257
	11:00	0	66	55	65	56	54	0	296
	12:00	0	59	64	59	47	65	0	294
	13:00	1	44	50	45	32	48	1	221
	14:00	0	82	88	79	44	52	0	345
	15:00	1	110	122	115	98	54	0	500
	16:00	0	66	78	86	71	89	0	390
	17:00	0	19	29	36	18	13	0	115
	18:00	0	3	4	4	3	3	0	17
	19:00	0	1	3	2	1	0	0	7
	20:00	0	1	2	0	0	0	0	3
	21:00	1	0	0	0	0	0	0	1
	22:00	0	0	2	1	0	0	0	3
	23:00	0	0	0	0	0	0	0	0
	24:00	0	0	0	0	1	0	0	1



System Usage Report

Server:

NOVI15

Start Date:

7/16/2007

End Date:

8/29/2007

Application		Sun	Mon	Tue	Wed	Thu	Fri	Sat	Total
Telephony									
VoicePermits	A SILI DI BATRISHI NA SELIMENTA DI	5	555	632	589	474	464	3	2722
	Total:	5	555	632	589	474	464	3	2722

Name of Company Winnick	Have You Used the System?	How Frequently Do You Use It?	Likes	Dislikes	Do You Have Any Suggestions to Improve the System?	Would You Be Interested In a Training Session?
Homes	Yes	Daily	Easy to use	None	No	No
Thurber Building	Yes	Daily	None	It's too time consuming	No	No
Pulte Homes	Yes	Every other Day	It's convenient to be able to schedule anytime of the day	It becomes time consuming when scheduling multi- inspections, but stills likes	No	No, it's self explanatory
Singh	Yes	3-4 Times a week	It's easy to use	None	Inspectors need to check for messages more often	No
Hunter Pasteur	Yes	Daily	It's easy to use	Prompts should be in a different order. Once you dial one for the conformation number you don't have the other options	No	No, it's self explanatory
Toll Brothers	Yes	Approximately seven times a week	It's easy to use and I like the idea of a confirmation number	Prompts should be in a different order. Once you dial one for the confirmation number you don't have the other options	Change the prompts around	No, it's self explanatory
Deville Plumbing	Yes	3-4 times a month	None	It's a little difficult to schedule multiple inspections and there are too many selections	Change the format to address and permit number only and type of inspection. Go back to old system.	

Name of Company	Have You Used the System?	How Frequently Do You Use It?	Likes	Dislikes	Do You Have Any Suggestions to Improve the System?	Would You Be Interested In a Training Session?
CK Bull Dozing	No	N/A	N/A	N/A	N/A	N/A
Dan Allor Plumbing	Yes	2-3 times a week	Convenient call in times, easier to use and gives you a confirmation number	None	No	No
Bill James Plumbing	Yes	Once	It's easy to use once you've become familiar with the system.	None	No	No
Sachse Construction	No	N/A	N/A	N/A	N/A	Maybe
GNS Foundation	Yes	I use it for every job	Nothing- Absolutely Nothing	I'm never sure if the message got through. I like talking to a person. You can't schedule elevation Inspections. You can't cancel inspections on the system and you can't reschedule if the weather changes.		Yes
Mozart	103	1 use it for every job	I like that you can call at	I would rather talk to a	Tinow system out.	103
Homes	Yes	Every Inspection	any time.	person.	No	· No
Killer Decks	Yes	Every Inspection	It seems like it will be easy to use eventually.	I don't like having to wait to hear the code number for the inspection.	I consider the second	No
JM Olson	Yes	Every Inspection	I like that you can call in after hours.	It's very frustrating to use at first.	No	Yes

Name of Company	Have You Used the System?	How Frequently Do You Use It?	Likes	Dislikes	Do You Have Any Suggestions to Improve the System?	Would You Be Interested In a Training Session?
Elite Poured Walls	No	N/A	N/A	N/A	N/A	Maybe
Crystal Electric	Yes	A couple of times a week.	It works nicely, and it's more convenient.	None	No, I'm happy with it.	No
Canton Electric	Yes	2-3 times in the last week.	It's easy to use.	None	No	No
Anstandig		I've used it a couple			When I couldn't remember what kind of permit I was calling in I couldn't find an option for what I was	
Electric	Yes	of times.	Not many.	The lack of personal contact.	looking for.	No
Plumbco Plumbing	Never returned call.					
Solomon Plumbing	Yes	Daily	It's easy to use.	None	No	No
WM R. Curtis	Number disconnected					
JMP Custom	Yes	Not often.	It's easy to understand.	None. Everything works fine.	No	Yes
Williams			I like that I'm able to get through right away, I can leave a message for the inspector, and I like getting a confirmation number. It's very user	I got a confirmation number once but the inspection was never scheduled. I haven't had a problem recently		
Panel Brick	Yes	Daily	friendly.	though.	No	· No

			Very part (4) No. 10-21 (market)			
					Do You Have Any	Would You Be
	Have You				Suggestions to	Interested In a
Name of	Used the	How Frequently			Improve the	Training
Company	System?	Do You Use It?	Likes	Dislikes	System?	Session?
					I would like to be able	
Cappy	Once, I've just				to bypass the	
Heating	learned of it.	I will use it a lot.	It's fast to use.	It's too long.	automation.	Maybe
Christian						
Brothers	No	N/A	N/A	N/A	N/A	N/A
			It's easy to understand,		Give contractors a list	
Quality			check results, and leave	All the codes and having to	of the codes when	
Heating &			a message for the	go through the list on the	they apply for a	
Cooling	Yes	Very Often	inspector.	phone.	permit.	No
Electrical			It's very easy to use and			
Power &			set up better than		There's nothing that	*
Design	Yes	Once a week.	Pontiac's system.	None	needs improving.	No
Labelle		Once or twice a				
Electric	Yes	month	I like the automation.	None	No	No
Corby Energy	N/A	N/A	N/A	N/A	N/A	N/A
Center Live				How long it takes to get the		
Electric	Yes	Once	N/A	conformation number.	No	Yes
DR Electric	Yes	Once a week.	It's very easy to use.	None	No	No
				It's slower than talking to a		
Ideal Electric	Yes	2-4 times a week.	It's easy to follow.	person.	No	No
			I liked that I could use it			
All City			without a booklet. It's a	I would rather have the cut of		No, it's not
Electric	Yes	Once a week.	better system than	at 6PM.	No	necessary.
Family					Send out a letter that	
Heating					has short cuts to	No, it's not
Company	Yes	I've used it twice.	It's easy to call in.	The message is too lengthy.	bypass the system.	needed.

Name of	Have You Used the	How Frequently			Do You Have Any Suggestions to Improve the	Would You Be Interested In a Training
Company	System?	Do You Use It?	Likes	Dislikes	System?	Session?
				I don't like that you have to		
		ritis		cancel by 3PM and to cancel		
				for the next day you have to		No, It's not
Tru Wall	Yes	2 times a week.	It's easy to call in.	call direct, not on the line.	Leave time machine.	necessary.
					I would like to be able	
					to bypass functions to	
				It takes a long time to type in	get to where I need to	No, It's not
Fireclass	Yes	Twice daily	It's convenient to use.	the inspection.	be in the system.	necessary.
Taubman	No	N/A	N/A	N/A	N/A	N/A
			I like being able to put			
Mulligan		I've used it six	times in and leave a			No, It's not
Heating	Yes	times.	message.	None	No	needed.

Welcome to The Inspection Hotline!

The City of Novi proudly brings you the automated City of Novi Voice PermitsTM IVR (Interactive Voice Response) System.

The Inspection Hotline allows you to contact the City for virtual around-the-clock access to our Community Development Department.

Residents or contractors may schedule or cancel inspections and find the results of inspections that have previously been conducted at their convenience. The Inspection Hotline can be accessed 24 hours a day, seven days a week as long as you have a touch-tone phone.

For more information, please contact the Community Development Department at (248) 347-0415.



Inspection Hotline

(248) 347-0480

General Information

(248) 347-0485

Community Development

(248) 347-0415

Assessing

(248) 347-8485

Engineering

(248) 347-0454

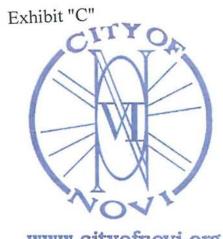
Ordinance Enforcement

(248) 735-5678

EMERGENCY

911





www.cityofnovi.org

City of Novi

AUTOMATED INSPECTION HOTLINE

(248) 347-0480

CITY OF NOVI

45175 W. Ten Mile Road Novi, MI 48375

City of Novi INSPECTION HOTLINE (248) 347-0480

You will be given simple prompts that will guide you throughout the entire process. You can press the [*] at any time for more information.

BEFORE CALLING YOU WILL NEED:

- 1. A touch-tone telephone
- 2. A permit number
- 3. An inspection code
 - Choose from the following list

CHOOSE FROM THE FOLLOWING OPTIONS:

- Press [1] Schedule an Inspection
- Press [2] Cancel an Inspection
- Press [3] Obtain Inspection Results
- Press [0] Transfer to Staff
- Press [#] Disconnect and Hang Up
- Press [*] Repeat Main Menu

Note: Each inspection is scheduled for the next working day. The cut-off time for an inspection is 3:30 the preceding day.

INSPECTION CODES

BUILDING PERMIT [11]

- 300 staking
- 301 footing
- 302 backfill
- 303 trench
- 304 basement sand
- 305 garage sand
- 307 sand other
- 308 damper

- 309 masonry flashing
- 310 rough 313 final
- 314 special inspection
- 315 post hole
- 316 brick elevation
- 317 elevation eng
- 322 insulation (batt)
- 323 insulation (blown in)
- 325 fire rated assembly326 rough open ceiling
- 802 final grade
- 805 façade

DEMO PERMIT [12]

- 103 utilities
- 200 final
- 302 backfill

ELECTRICAL PERMIT [13]

- 400 underground
- 401 rough
- 402 service
- 403 temporary service
- 404 walls
- 405 ceiling
- 407 final
- 408 special inspection

GENERAL PERMIT [14]

- 502 sewer
- 503 water

HEATING PERMIT [15]

- 505 gas test
- 600 underground
- 601 rough
- 603 rough fireplace
- 604 final fireplace
- 605 special inspection
- 606 final
- 607 open ceiling

MINOR LAND IMPROVEMENT [16]

806 minor land inspection

MOBILE HOME PERMIT [17]

200 final inspection

PLUMBING PERMIT [18]

- 500 underground
- 502 sewer
- 503 water
- 506 rough
- 508 final
- 509 special inspection

REFRIGERATION PERMIT [19]

- 700 rough
- 701 final

SIGN FOUNDATION PERMIT [20]

- 301 footing
- 313 final

STARTING PERMIT [21]

- 300 staking
- 301 footing
- 302 backfill
- 303 trench
- 304 basement sand
- 305 garage sand
- 307 sand other
- 317 elevation eng

ZONING PERMIT [22]

313 final

Exhibit "D"

Community Development Department introduces 24-hour Inspection Hotline

CONTACT: Sheryl Walsh (248) 735-5628 FOR IMMEDIATE RELEASE

NOVI, Michigan, July 18, 2007 – The City of Novi has taken another step to streamline the building process for residents and contractors alike with the introduction of the Novi Inspection Hotline. The automated Interactive Voice Response (IVR) system allows users to get the information they need without having to worry what time of day it is.

Users access the system by dialing the Inspection Hotline at 248-347-0480. Once the caller is connected to the Inspection Hotline, they will follow a series of touch-tone commands to schedule or cancel an



inspection or find the results of an inspection that has already taken place. The caller must have a permit number to access information requested. A series of numeric codes are used to select the type of inspection that is desired.

Community Development Director Steve Rumple believes the IVR system will be a tremendous benefit for residents and contractors alike. "The new automated inspection hotline will be a convenient tool our customers can use at their convenience. Having the ability to not only schedule inspections, but check results, will give contractors and residents an added sense of security when scheduling the next phase of their projects."

Purchase of the IVR system from Selectron Technologies Professional Services was approved by the Novi City Council on January 22, 2007 for \$67,483.

An Inspection Hotline Guide that outlines the procedure and codes is available at the Community Development Department inside the Novi Civic Center or by <u>clicking here</u>. For more information please contact the Community Development Department at (248) 347-0415.