



**IOWA 811**  
**ONE CALL**<sup>SM</sup>  
**ITIC USER'S MANUAL**

JULY 2024

# INTRODUCTION

**Welcome to ITIC NextGen** – the future of online ticketing!

Online ticketing systems have required users to spend their time entering text information before allowing them to do the all-important work of finding their the dig site on a map. As we considered ways to improve the online ticketing process, we became convinced that if users identified their dig site on the map *first*, nearly all text entry could be automated. As our research in modernizing on-line ticketing continued, we found other ways to save the user time and effort by building the notification center's business rules into the system.

One of the biggest differences you will notice from the very first time you use NextGen is that identifying your dig site starts, not ends, with an aerial photo of your work area. After minimal text entry, easy-to-use tools allow you to specify each individual dig location within your work area. Once you have specified all the work areas, NextGen automatically divides or combines them into the appropriate number of tickets, each one complete with text-based location information. That's right - NextGen presents you with *completed* tickets for your review.

We believe NextGen will change the way people think about damage prevention. For the very first time: an online ticketing application:

- **Starts the process with an aerial photo.** Use the width of streets, the location of buildings, and the location of other geographic features to help identify where you are digging in relation to the actual conditions at your work site.
- **Uses the information contained in the notification center's base map.** NextGen helps you complete your ticket, allowing you to fully concentrate on identifying the precise location where you will dig instead of entering text.
- **Gives you the means to *precisely* define the area in which your work will take place.** We've eliminated the need to "go broad" or "over-cover" your work site. Each individual excavation site you define will be compared with the notification center's database so affected operators are notified.

This manual is divided into two parts. The first is a "quick start" that covers the basics of using NextGen to file your locate requests. Long-time ITIC users may be more comfortable starting here. The second section provides more detailed information about NextGen's advanced features. With that in mind, all users will benefit from reviewing some of the new terms and ideas used in discussing creating an online ticket with NextGen.

**Session** – A period of user interaction with NextGen characterized by defining one or more *excavation entities* which subsequently results in the creation of one or more tickets.

## INTRODUCTION - DEFINITION OF TERMS

**Excavation Entity** – A circle, route, parcel, GPS generated polygon or free-hand polygon representing an area of excavation (see below). The NextGen user creates a discrete excavation entity during a session as they identify the limits of an area of work. Users can create as many excavation entities as necessary during a single session.

**Route** – An excavation entity created when a user selects a series of points on a map that form a continuous line. The line is converted into an excavation entity based on the “width” specified by the user.

**Circle** – An excavation entity created when a user selects a point on a map that is then converted into a circle based on the length of the radius requested by the user.

**Parcel** – An excavation entity created when a user selects part or all of a parcel of property. Parcel size is often associated with a single address and does not include the road right of way. Users can extend parcel size with the “parcel” tool. NOTE: Available parcel data may be limited in some areas.

That's it! Turn to the next page to get started.

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## ABOUT YOUR SESSION - A QUICK OVERVIEW

**Session** – A period of user interaction with ITIC characterized by defining one or more *excavation entities* which subsequently results in the creation of one or more tickets.

The workflow of a session consists of three parts:

### **Confirming your contact and profile (if used) information**

Upon logging in, ITIC will present you with the contact information on file with the Iowa One Call call center. At the start of the session, you will be able to update this record so that modified information appears on all locate requests you generate. You can also modify or create new profiles as needed before actually beginning the process of creating your tickets. Finally, you can modify the record on each ticket individually during the ticket creation process.

### **Creating excavation entities to cover your work areas**

The number of excavation entities you can create in a single session is unlimited. Feel free to create as many as required to meet your needs. ITIC applies the business rules as established by IOC to split or combine the excavation entities into the appropriate number of locate requests. Tickets will be presented to you for your review and confirmation, complete with text field entries, such as county, city, and street names, based on your excavation entities.

It is important to devote your full attention to the creation of the excavation entities because they are the foundation that ITIC uses to determine which utilities need to be notified. ITIC includes a series of tools designed to help users create excavation entities for the most common types of excavations (route, single point, etc.).

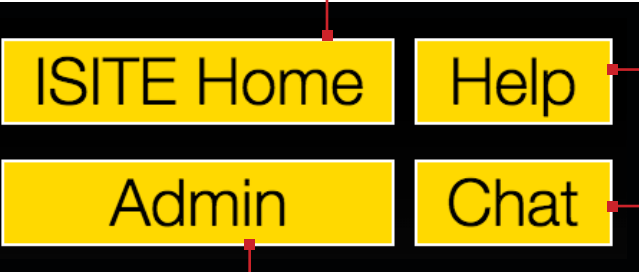
### **Suggested Next Step**

ITIC offers updated advice on how to proceed, whether at the beginning, middle, or end of the process. Look for this box at the top of the screen. The text will continually refresh as you work through your session.

#### **Suggested Next Step**

Click one of the larger buttons to the right of the map to create an excavation area OR Enter a starting location in the "Starting Address Location" window OR zoom/pan to the general location of the planned excavation OR click on the "Advanced/Alternate Search" button to the right.

# ABOUT YOUR SESSION - CONTINUED



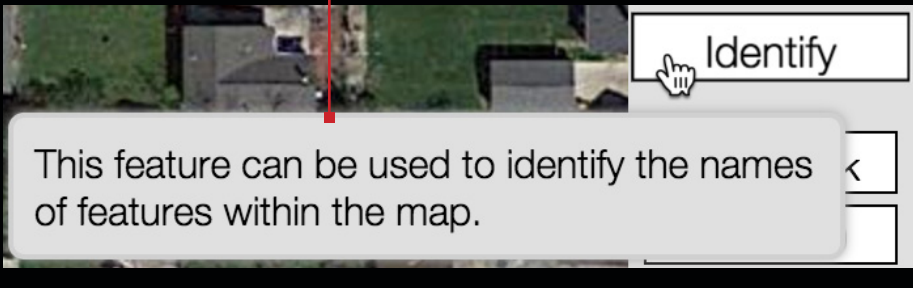
**Admin (Button)**  
Clicking this button will allow the user to edit caller or profile information.

**Hover Help**  
Hovering the cursor over different ITIC features will display helpful information.

**ISITE Home (Button)**  
Clicking this button will abandon your session and return you to the iSite Main Menu.

**Help (Button)**  
Clicking this button will display a page with links to training materials.

**Chat (Button)**  
Clicking this button will connect you with the Live Help Chat function. Live Help Chat is only available during normal call center hours.



## Complete, review, and release your tickets

ITIC presents you with partially completed tickets once you indicate you have finished a session. You must enter precise marking instructions on each ticket. Alerts will appear if any other text fields need further review. Those most commonly in need of attention are special purpose fields, such as those indicating whether explosives or trenchless technology (horizontal boring) will be used.

Sections missing required information are marked with a red exclamation point (!). Tickets that are waiting for review are marked with a red globe. All users will be required to review the completed ticket prior to moving to the next step.

Fields missing required information will be highlighted with a red border.



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**ITIC QUICK START GUIDE:  
CONFIRMING YOUR CONTACT  
AND PROFILE INFORMATION**

# LOGGING IN

To access ITIC point your web browser to <https://ia.itic.occinc.com>

If you do not already have an ITIC login, click the **NEED TO REGISTER?** button located below the login and password fields.

If you have forgotten your login information, you can also click the **FORGET YOUR PASSWORD?** link, also located below the login and password fields.

Once you enter your password and login and hit return, you'll be logged in to the sandbox.

**ISITE** IS READY TO HELP  
LOGIN TO BEGIN

USERNAME  
 PASSWORD

**LOGIN**

[FORGOT YOUR PASSWORD?](#)

[NEED TO REGISTER?](#)

[Search and Status](#)

**811** **ONE CALL CONCEPTS**  
When safety is on the line.



# LANDING PAGE

By default, you will be logged into NextGen.

The screenshot displays the NextGen landing page interface. At the top, there is a banner for "IOWA 811 ONE CALL" with the website "www.IOWAONECALL.COM". Below the banner is a navigation bar with tabs for "IA", "LA", "MD", "MN", and "MO". The "IA" tab is selected. To the left is a sidebar menu with buttons for "NextGen", "ITIC", "IMAP", "DAMAGE MANAGER", "EXCAVATOR TICKET MANAGEMENT", "LOCATOR TICKET MANAGEMENT", "SEARCH & STATUS", "UNREAD MESSAGES", and "LOGOUT". The main content area is titled "PLEASE MAKE YOUR SELECTION . . ." and contains two sections: "CALLER INFORMATION" and "PROFILE INFORMATION". The "PROFILE INFORMATION" section includes fields for "ALT NAME" (JAKE CHAMBERS), "ALT PHONE" (555-555-5555), "ADDITIONAL EMAIL RECIPIENTS", "TYPE OF WORK" (INSTALLATION OF FENCE), "WORKING FOR COMPANY" (JIMMY), and a list of services with dropdown menus: "BLASTING" (N), "TRENCHING" (N), "BORING" (N), "IS JOB WHITE LINED" (N), "PLOWING" (N), "BACKHOE" (N), "OTHER" (Y), and "DURATION" (1). In the top right corner of the form area, there are buttons for "Contact", "Help", and "Chat". A large "ITIC NextGen" logo is overlaid on the right side of the screenshot.

The first page of NextGen is broken into two sections, **Caller Information** and **Profile Information**.

The **Caller Information** section contains identifying and contact information for your company. You can edit your Caller Information at any time. After changing information, you must advance to the next field before the **SAVE CHANGES** button will appear in the upper-right corner. Click this button to retain any changes you have made. **NOTE:** If you edit any fields in the Caller Information section but do not exit the field and **SAVE CHANGES**, your *changes will be made for this session only*.

Create new Profiles or select from a list of existing profiles in the **Profile Information** section. Profiles are used to auto-fill specific fields with your routinely used information. Utilizing the 'Profiles' feature will enable ITIC to 'remember' your information - saving you time in the Locate Request process.

Click the **NEW TKT** button when you are ready to start. NextGen will then take you to the Map page.

Users who have ITIC privileges in multiple states will see a series of "tabs" across the top of the ticket entry window. Select the state in which you will file your locate request by clicking on the corresponding tab.



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**ITIC QUICK START GUIDE:  
CREATING EXCAVATION ENTITIES**

Map your work site(s) to begin filing a ticket with ITIC. Several tools are available to help you accurately map your locate requests:

**Starting Address Location**

Use this search field to find an address, an intersection, or the name of a business or municipal building that can serve as the starting point for your excavation(s).

**Advanced/Alternate Search**

Use the Advanced Search tool to find locations that do not appear in the Starting Address Search. You can use the drop-down menu to search by more specific address information, coordinates, map grids, mapping from a previous locate request, or GPS locations. [See pg. 19 for more info].

**Map View Buttons**

Change the image of the map to the Call Center map view, Google map view, or Satellite view (pictured). We recommend using satellite view whenever you create excavation entities.

**Identify**

Identify map features that do not display a name (such as roads, highways, rivers, etc.) with this tool. The name will appear in the top section of the map next to "Highlight." The Identify tool is also useful for identifying the address range of a specific block. Note: zooming in on the map makes more names visible.

**Placemark**

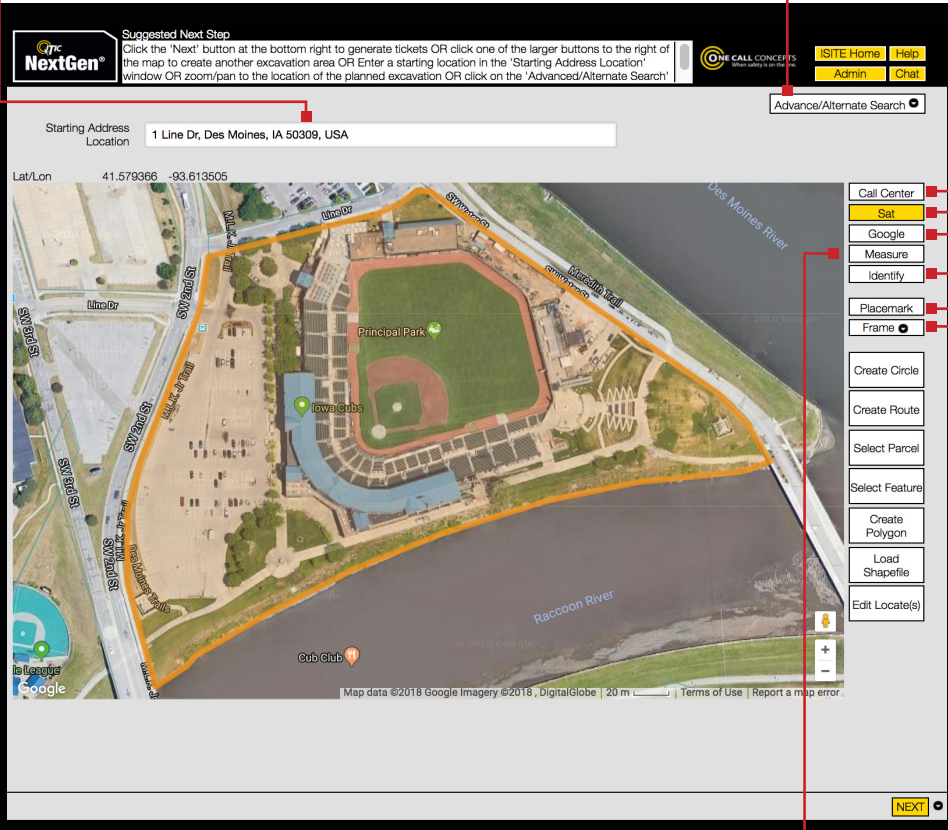
Place a pin-mark on the map for later reference with this tool. This can be very helpful when used in conjunction with the Measure tool. NOTE: Placemarks only last the duration of the session in which they are created.

**Frame**

Use this function to center the map on:  
 A) Excavation entities you have created.  
 B) Placemarks you have created.  
 C) Both of the above.  
 (Use the drop-down menu to select A, B, or C)

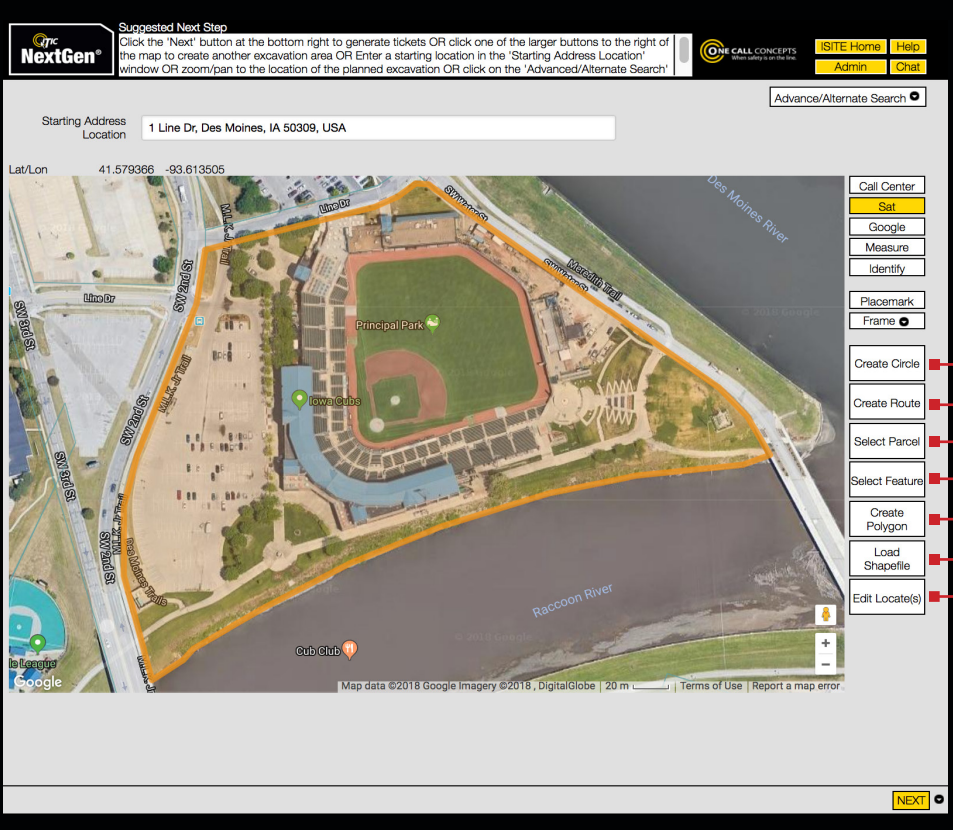
**Measure**

Use this tool to measure the distance between points on the map. Get in the habit of using this tool regularly to ensure proper coverage of excavation areas and confirm distances along roads.





# THE MAP - CONTINUED



## Entity Creation Buttons

Several tools are available to create excavation entities that encompass your work location. The tools are based on the most commonly described kinds of excavation areas. Choose the one that best meets your needs. Find out more in the following descriptions:

### Create Circle

Generates a circular excavation entity, or a series of circular polygons. This tool is an excellent choice for jobs involving pole installation, tree planting, etc.  
(See pg. 20 for more info.)

### Create Route

Creates long, narrow excavation entities. This tool is an excellent choice for jobs involving “long and skinny” work that does not take place in a roadway.  
(See pg. 22 for more info.)

### Select Parcel

Defines excavation entities based on available parcel data. Use the Select Parcel tool when a dig site is confined to all or part of a piece of private property.  
(See pg. 25 for more info.)

### Select Feature

Creates excavation entities that look similar to those created by the Create Route tool. The Select Feature tool defines excavation entities when you click on map features. Select this tool for jobs contained primarily in the roadway.  
(See pg. 27 for more info.)

### Create Polygon

Reserved for situations where no other excavation entity will properly cover the dig site, the Create Polygon tool allows you to draw an entity polygon “free-hand.” (See pg. 29 for more info.)

## Create GPS

Delineates an excavation entity using your device’s GPS capability while in the field.

**Note:** Do not use this tool when inputting tickets offsite.

(See pg. 31 for more info.)

## Load Shapefiles

Use this tool if you have shape (.shp/.shx) files that define points, lines or polygons covering your dig site. ITIC will then convert your shapefiles to excavation entities.

## Edit Locate(s)

Using this tool deletes or modifies existing excavation entities. You can left-click on any existing entity polygon to edit it, or right-click to delete it while the Edit Locate(s) tool is active.



# MAPPING YOUR WORKSITE(S)

Create at least one excavation entity to encompass each dig site after locating your general work location on the map. Create as many excavation entities, in any combination, as you need to cover the work site(s).

The screenshot displays the ITIC software interface. At the top left, there is a 'Suggested Next Step' box with the following text: 'Click the "Next" button at the bottom right to generate tickets OR click one of the larger buttons to the right of the map to create another excavation area OR Enter a starting location in the "Starting Address Location" window OR zoom/pan to the location of the planned excavation OR click on the "Advanced/Alternate Search" button to the right.' To the right of this box are buttons for 'SITE Home', 'Help', 'Admin', and 'Chat'. Below the search bar, the starting address is '3225 Crestline Dr, Davenport, IA 52803, USA' and the coordinates are '41.534956 -90.524401'. The main map area shows an aerial view of a residential neighborhood with several orange polygons and circles overlaid on it, indicating mapped work sites. A red arrow points from the 'NEXT' button at the bottom right of the interface to the text below.

In this example the work site has been mapped out using the **Create Circle**, **Select Feature** and **Select Parcel** tools.

When you have mapped out your entire work area click the **NEXT** button. ITIC will display the Ticket Information page.



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**ITIC QUICK START GUIDE:  
VERIFYING AND RELEASING COMPLETED TICKETS**

# TICKET INFORMATION PAGE

ITIC calculates the most efficient way to break up or combine the excavation entities you have created and assign them to locate requests. ITIC automatically applies the business rules as established by Iowa One Call to make this determination. The tickets appear at the top of the screen. Each tab represents a ticket.

## Excavator Information

is drawn from the information you confirmed at the start of the session (See pg. 8 for more info.)

## Excavation Information

is auto-filled with information you entered in the Profile section of the ITIC landing page. Change this information by choosing a different profile using the profile drop-down menu. You can also fill out the fields by hand.

NextGen enters the **Location Information** based on the data encoded in the base map where you created each excavation entity. Carefully review all information in this section, paying particular attention to the **Marking Instructions**.

If you edit this information, your ticket may be held and reviewed by staff at the notification center. Please be aware that the review process may delay the release of your ticket.

Review the information on each ticket for accuracy and make any necessary additions or revisions. Here are some tips that will assist you in that process:


Iowa One Call will automatically send you a copy of your completed ticket. Click the **CC EMAIL** button to send a copy of the ticket to another email address.

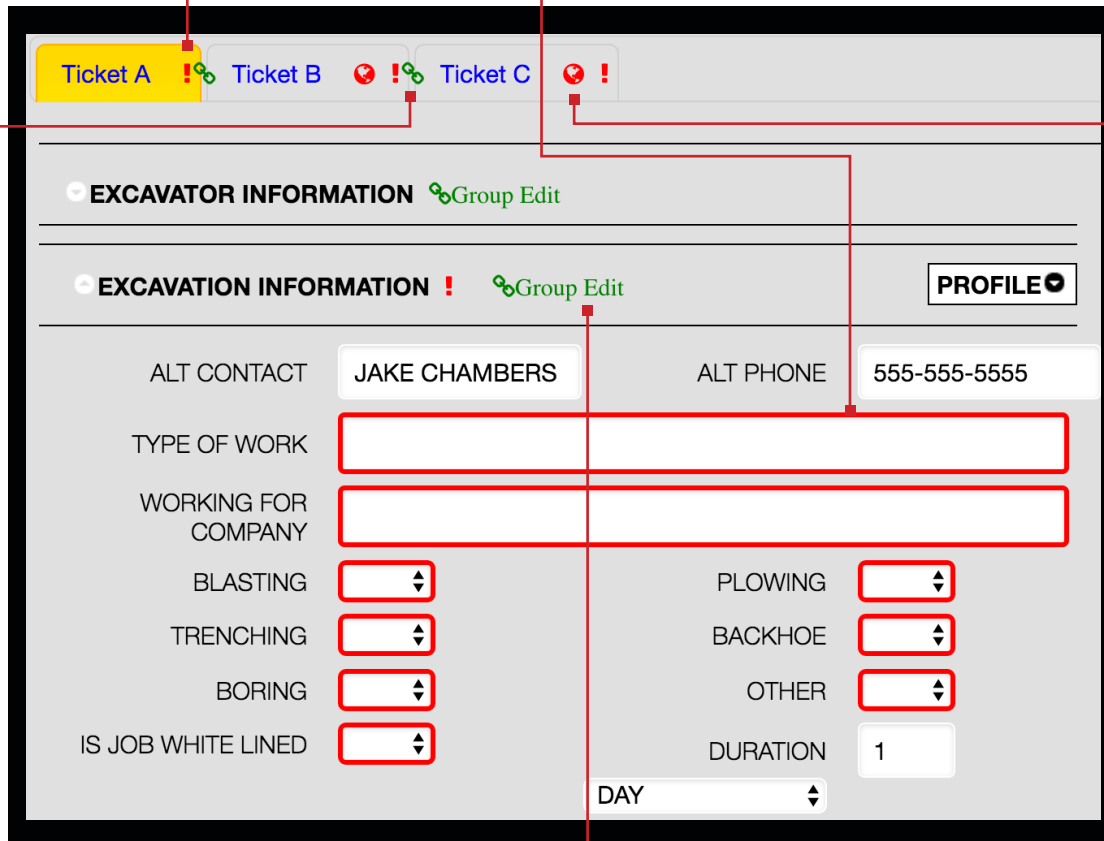
# TICKET INFORMATION PAGE - CONTINUED

The **red border** indicates a required field. Fill out all fields with a red border or you will not be able to proceed.

## The Red Exclamation Point !

appears when there is missing information in the corresponding ticket. Enter the missing information or you will be unable to proceed.

The **Green Chain-Link**  indicates the **Group Edit** function is active on the corresponding ticket(s).



The screenshot shows a web interface for managing tickets. At the top, there are three tabs: 'Ticket A' (highlighted in yellow), 'Ticket B', and 'Ticket C'. Each tab has a red exclamation point icon. Below the tabs, there are two sections: 'EXCAVATOR INFORMATION' and 'EXCAVATION INFORMATION'. The 'EXCAVATION INFORMATION' section has a red exclamation point icon and a 'Group Edit' link. The form contains several fields: 'ALT CONTACT' (JAKE CHAMBERS), 'ALT PHONE' (555-555-5555), 'TYPE OF WORK' (empty red-bordered field), 'WORKING FOR COMPANY' (empty red-bordered field), 'BLASTING' (dropdown menu), 'TRENCHING' (dropdown menu), 'BORING' (dropdown menu), 'IS JOB WHITE LINED' (dropdown menu), 'PLOWING' (dropdown menu), 'BACKHOE' (dropdown menu), 'OTHER' (dropdown menu), and 'DURATION' (1). A 'PROFILE' button is also visible.

## Group Edit: Group Edit

Click on this link to toggle Group Edit on or off. The Group Edit feature allows you to edit the Excavator Information and/or Excavation Information on multiple tickets at one time. When Group Edit is activated any change you make will appear on each ticket. Group Edit is not available for use with Location Information. In contrast, Individual Edit mode allows you to enter information on a single ticket.

## The Red Globe

indicates the corresponding ticket is waiting for review. You must review the mapping, location and excavation information or you will be unable to proceed.

When you are certain all ticket information is accurate, select the next ticket by clicking a tab and review the next ticket. Once you have completed and reviewed all tickets click the **NEXT** button in the lower right corner of the page.



This will take you to the **Ticket Disposition** page.



# TICKET DISPOSITION PAGE

You can edit the **Start Date and Time**, and the **Action** ITIC will take for each ticket.

The **Ticket Type** will display the type of ticket you selected when initially creating the ticket.

Use the menus to select a **Work to Begin Date and Time**.

**WARNING: This is a test site. Tickets will not be released.**

Ticket A Ticket B Ticket C

**TICKET DISPOSITION** Group Edit

TICKET TYPE: COMPLIANT

WORK TO BEGIN DATE: [Calendar Icon]

WORK TO BEGIN TIME: [Time Selector]

In an effort to enhance locating efficiency, please consider extending your project start date/time. A minimum of 48-hours is required, but providing additional time may help mitigate possible delays. Simply select a date/time applicable to your needs; by extending the start time by a 1/2 day up to 5 business days.

**SESSION DISPOSITION**

Ticket	State/County	Place	Address	Cross Street	Ticket Type	Action Date	Action
Ticket A	IA/SCOTT	DAVENPORT	CRESTLINE DR	ELMORE AVE	COMPLIANT		SUBMIT TICKET(S) ▾
Ticket B	IA/SCOTT	BETTENDORF	CENTRAL AVE	CENTRAL LN	COMPLIANT		SUBMIT TICKET(S) ▾
Ticket C	IA/SCOTT	PLEASANT VALLEY TWP	VALLEY DR	249TH AVE	COMPLIANT		SUBMIT TICKET(S) ▾

SUBMIT

When you have completed your entire review, click the **SUBMIT** button. This commits the ticket(s) to the actions you have assigned. If you chose to **RELEASE** your ticket(s), ITIC will present you a list of utilities to be notified.

## Ticket Action

Use the drop-down menus to assign an action to each ticket individually, or use the white arrow key to assign the same action to all tickets. (See box below for more info.)

## AVAILABLE ACTIONS

**Discard** abandons the ticket. If you choose this function, the ticket will not be transmitted, and all work you have done on it (mapping, location information, etc.) will be discarded.

**Release** transmits the ticket to the notification center for review or directly to the affected utilities (depending on your NextGen User Privileges).

NOTE: ticket numbers are only assigned when a locate request is directly released. Reviewed tickets are assigned numbers upon release by notification center staff.

## UTILITY NOTIFICATION LIST

ITIC will present you with the **Utility Notification List** once tickets are released. This page contains a complete list of the Facility Operators to be notified as a result of your ticket(s).

### Grid Search

**TRSQ** TSQ MAPSCO/Keymap Autogen

Township  Range

Section  Quarter

You can now choose to log out, or return to the iSite main menu.



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**ITIC ADVANCED GUIDE**

# ADVANCED/ALTERNATE SEARCH

Use the Advanced Search if you are unable to find your worksite with the Starting Address Location search.

## Advanced Street

Search can be used to search for roads and intersections.

The screenshot shows the 'Advanced Street Search' form with the following fields: State (IA), County (empty), City/Place (Cedar Rapids), Addr (empty), Street (Washington Ave SE), and Cross Street (15th St SE). At the bottom are 'Search', 'Clear', and 'Cancel' buttons.

## Coordinate

Search can be used for latitude/longitude and other coordinate type formats.

The screenshot shows the 'Coordinate Search' form with coordinate format options: Decimal Lat/Lng (highlighted), DMS Lat/Lng, GPS, SPCS, and UTM. Below these are input fields for Lat (41.647290) and Lng (-91.535742). At the bottom are 'Search', 'Clear', and 'Cancel' buttons.

## Grid

Search allows for searching based on grid names in various formats, such TRSQ.\*

The screenshot shows the 'Grid Search' form with format options: TRSQ (highlighted), TSQ, MAPSCO/Keymap, and Autogen. Below these are input fields for Township (147N), Range (33W), Section (33), and Quarter (NW). At the bottom are 'Search', 'Clear', and 'Cancel' buttons.

## Prev Ticket

Search can be used to show the excavation polygons from previously filed tickets.

The screenshot shows the 'Ticket Search' form with a State dropdown menu (IA) and a Ticket Number input field (160330201). At the bottom are 'Search', 'Clear', and 'Cancel' buttons.

## GPS Location

Centers the map on your current location. NOTE: GPS Location Search only works if your device is GPS equipped.

\* Not all grid types can be used in Iowa.



# CREATE CIRCLE

Create Circle

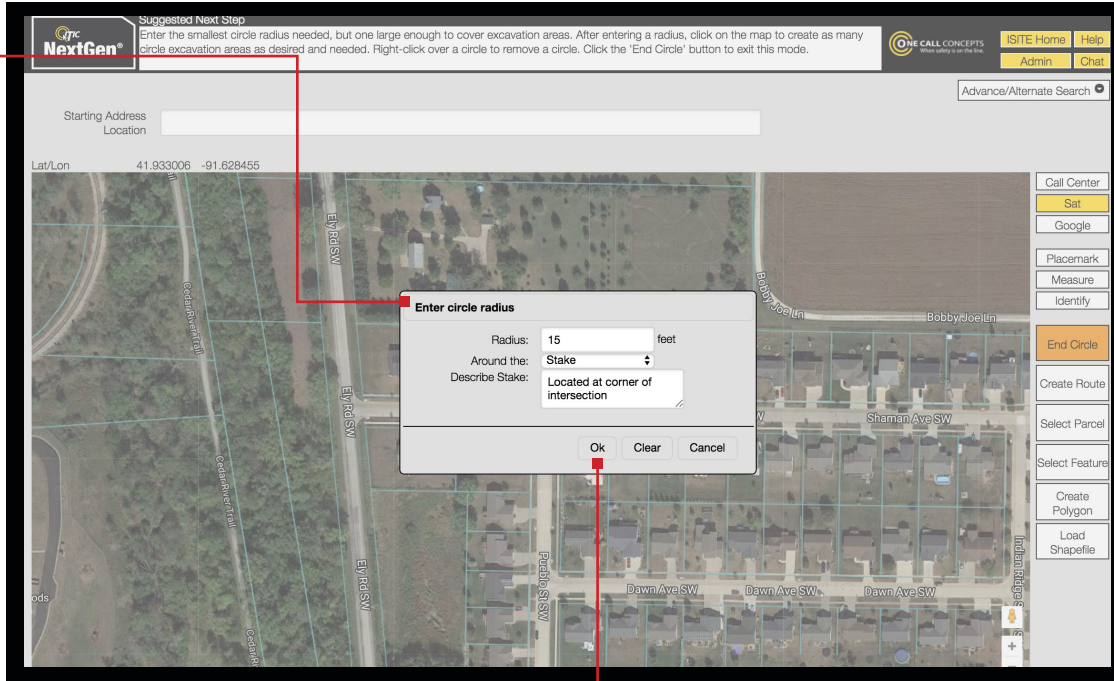
The **Create Circle** tool allows users to create circular excavation entities with a pre-determined radius. The Create Circle tool is an excellent choice for jobs involving pole installation, tree planting, or any other type of work where a circle best describes the work area. You can create as many Circle entities as needed.

First, click **Create Circle**. You will be prompted to enter a series of information.

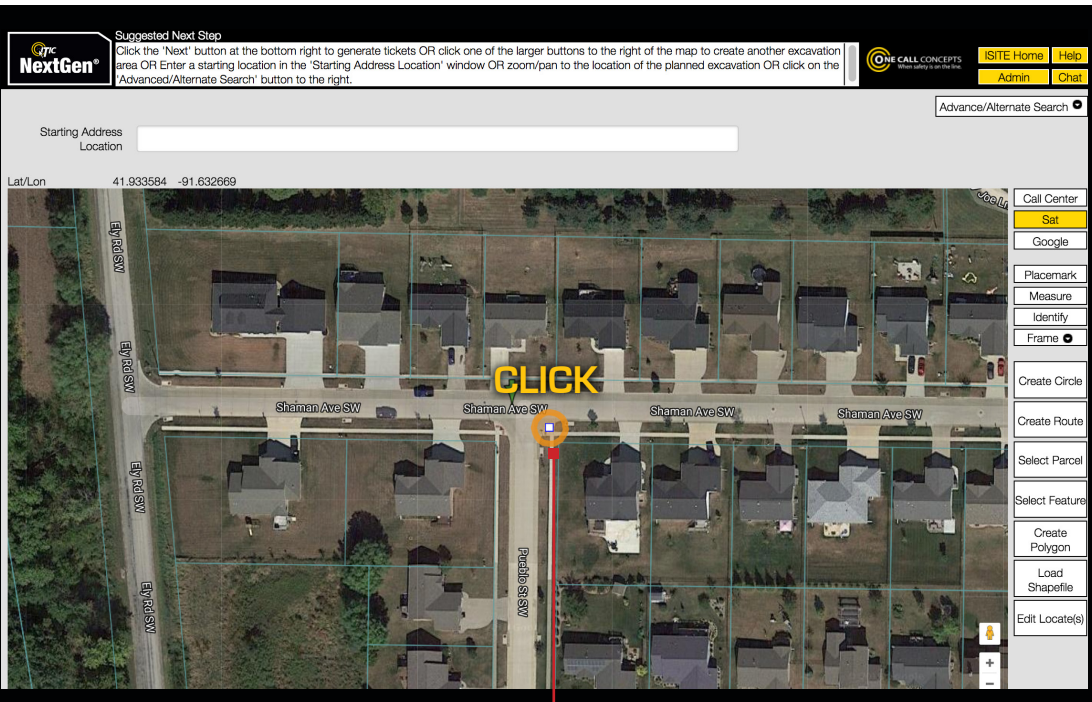
The radius refers to the size of the circle.

The drop-down menu is used to indicate how the worksite is designated.

The Description field is used for additional information for locating and/or describing the worksite. This information is not required, but can help locators to find and mark the worksite correctly.



Once you have entered the information click **Ok**.



Now click on the map where you would like to place your circle.

# CREATE CIRCLE - CONTINUED

Create Circle

You can continue placing circular excavation entities by clicking on the map.

When you are finished click the **End Circle** button.

The screenshot displays the NextGen software interface. At the top left, the 'NextGen' logo is visible. A 'Suggested Next Step' box contains the following text: 'Enter the smallest circle radius needed, but one large enough to cover excavation areas. After entering a radius, click on the map to create as many circle excavation areas as desired and needed. Right-click over a circle to remove a circle. Click the 'End Circle' button to exit this mode.' The main interface features a search bar with the address '1007 E Grand Ave, Des Moines, IA 50319, USA' and coordinates '41.933384 -91.631735'. The map shows an aerial view of a residential area with several circular excavation entities overlaid. Two of these circles are highlighted with orange outlines and the word 'CLICK' in yellow text. A red line connects the text 'You can continue placing circular excavation entities by clicking on the map.' to the 'CLICK' labels on the map. On the right side, a vertical toolbar contains various buttons: 'Call Center', 'Sat', 'Google', 'Placemark', 'Measure', 'Identify', 'End Circle', 'Create Route', 'Select Parcel', 'Select Feature', 'Create Polygon', 'Load Shapefile', and 'Edit Locate(s)'. A red line connects the text 'When you are finished click the End Circle button.' to the 'End Circle' button. Another red line connects the text 'To expand or edit the excavation entity click the Edit Locate(s) button.' to the 'Edit Locate(s)' button.

To expand or edit the excavation entity click the **Edit Locate(s)** button.



# CREATE ROUTE Create Route

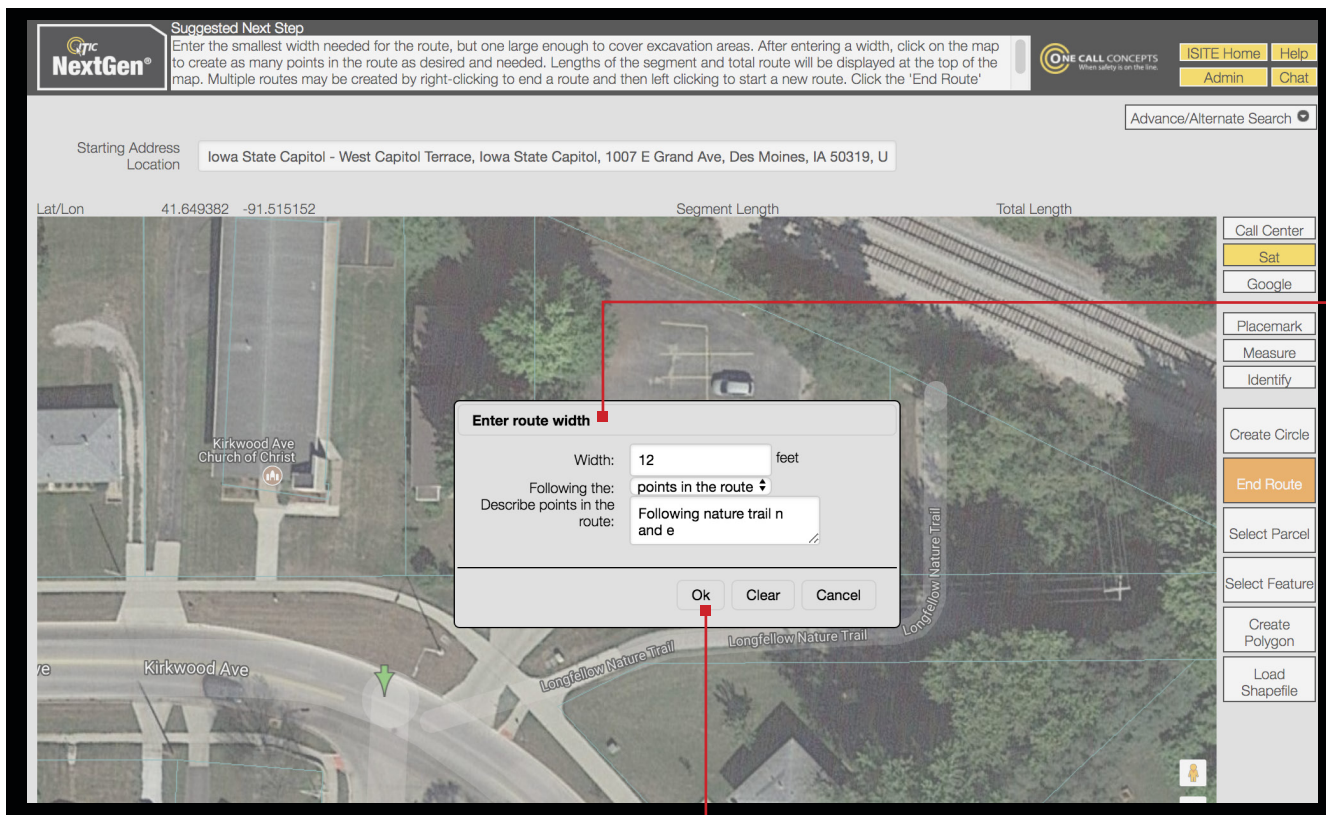
The **Create Route** tool allows users to create long, narrow excavation entities. The **Create Route** tool is an excellent choice for defining an excavation area when trenching, performing road repair/replacement, or any other type of work involving a long, narrow excavation area. You can create as many Route entities as needed.

First, click **Create Route**. You will be prompted to enter a series of information.

The width will specify the width of the route.

The drop-down menu is used to indicate how the worksite is designated.

The Description field is used for additional information for locating and/or describing the worksite.



Once you have entered the information click **Ok**.

# CREATE ROUTE - CONTINUED

Create Route

Now click on the map where you would like to begin your route. Move the mouse to the next turning point in your route and click again. Continue this process until your entire route has been covered, then click the **End Route** button.

**NextGen** Suggested Next Step  
Enter the smallest width needed for the route, but one large enough to cover excavation areas. After entering a width, click on the map to create as many points in the route as desired and needed. Lengths of the segment and total route will be displayed at the top of the map. Multiple routes may be created by right-clicking to end a route and then left clicking to start a new route. Click the 'End Route'

ONE CALL CONCEPTS  
What safety is on the line

ISITE Home Help  
Admin Chat

Starting Address Location: Iowa State Capitol - West Capitol Terrace, Iowa State Capitol, 1007 E Grand Ave, Des Moines, IA 50319, U

Advance/Alternate Search

Lat/Lon	41.649861	-91.514548	Segment Length	Total Length	162 ft
---------	-----------	------------	----------------	--------------	--------

Map labels: Kirkwood Ave Church of Christ, Kirkwood Ave, Longfellow Nature Trail, Row Circle Trail

Map actions: START, CLICK, CLICK, CLICK

- Call Center
- Sat
- Google
- Placemark
- Measure
- Identify
- Create Circle
- End Route
- Select Parcel
- Select Feature
- Create Polygon
- Load Shapefile



# CREATE ROUTE - CONTINUED

Create Route

Clicking the **End Route** button will convert the route to an excavation entity with the width you had previously designated. To expand or edit the excavation entity click the **Edit Locate(s)** button.

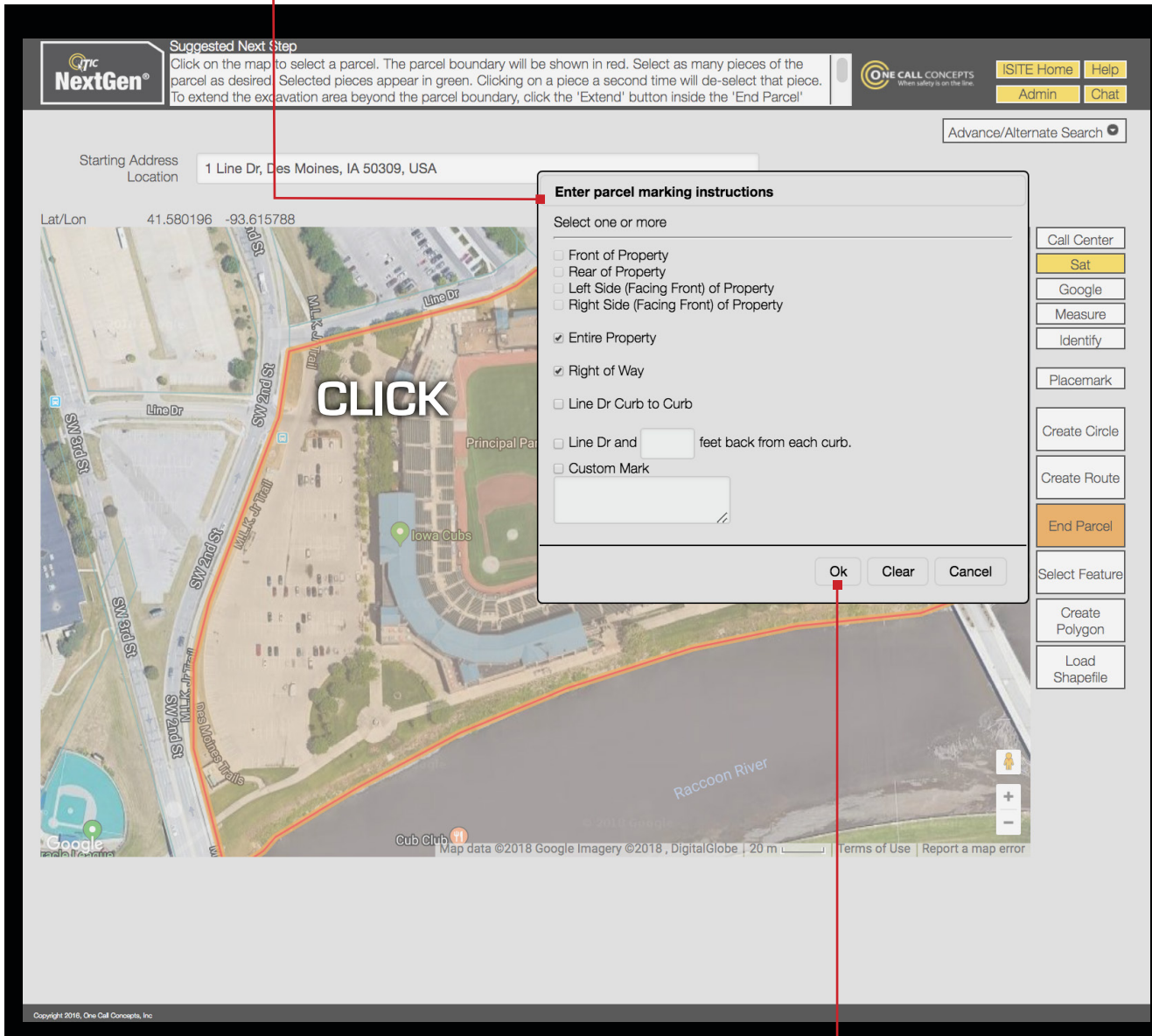
The screenshot displays the NextGen software interface. At the top left, the 'NextGen' logo is visible. A 'Suggested Next Step' section provides instructions: 'Click one of the larger buttons to the right of the map to create an excavation area OR Enter a starting location in the 'Starting Address Location' window OR zoom/pan to the location of the planned excavation OR click on the 'Advanced/Alternate Search' button to the right.' To the right of this text are buttons for 'ISITE Home', 'Help', 'Admin', and 'Chat'. Below this is a search bar containing the text 'Iowa State Capitol - West Capitol Terrace, Iowa State Capitol, 1007 E Grand Ave, Des Moines, IA 50319, U'. The map area shows an aerial view with a yellow highlighted route. A green arrow points to the starting location on Kirkwood Ave. A toolbar on the right side of the map includes buttons for 'Call Center', 'Sat', 'Google', 'Placemark', 'Measure', 'Identify', 'Frame', 'Create Circle', 'Create Route', 'Select Parcel', 'Select Feature', 'Create Polygon', 'Load Shapefile', and 'Edit Locate(s)'. The 'Edit Locate(s)' button is highlighted with a red box and a red line that extends upwards and to the right, pointing towards the text in the top right of the page.

# SELECT PARCEL

Select Parcel

The **Select Parcel** tool allows users to create polygons based on available parcel data. The **Select Parcel** tool should be used when you are excavating on a specific address/parcel of land. You can create as many Parcel entities as needed.

First click the **Select Parcel** tool. Then click on the area of excavation. If parcel data is available the entire parcel will be highlighted. You will also be prompted to describe what section of the parcel the work will take place in.



Use the check boxes to describe your work area, then click OK.

# SELECT PARCEL - CONTINUED

Select Parcel

When you have finished click the End Parcel button.

To expand or edit the excavation entity click the Edit Locate(s) button.

**Suggested Next Step**  
Click on the map to select a parcel. The parcel boundary will be shown in red. Select as many pieces of the parcel as desired. Selected pieces appear in green. Clicking on a piece a second time will de-select that piece. To extend the excavation area beyond the parcel boundary, click the 'Extend' button inside the 'End Parcel'

Starting Address Location: 1 Line Dr, Des Moines, IA 50309, USA  
Lat/Lon: 41.579350 -93.618125

Map data ©2018 Google Imagery ©2018, DigitalGlobe | 20 m | Terms of Use | Report a map error

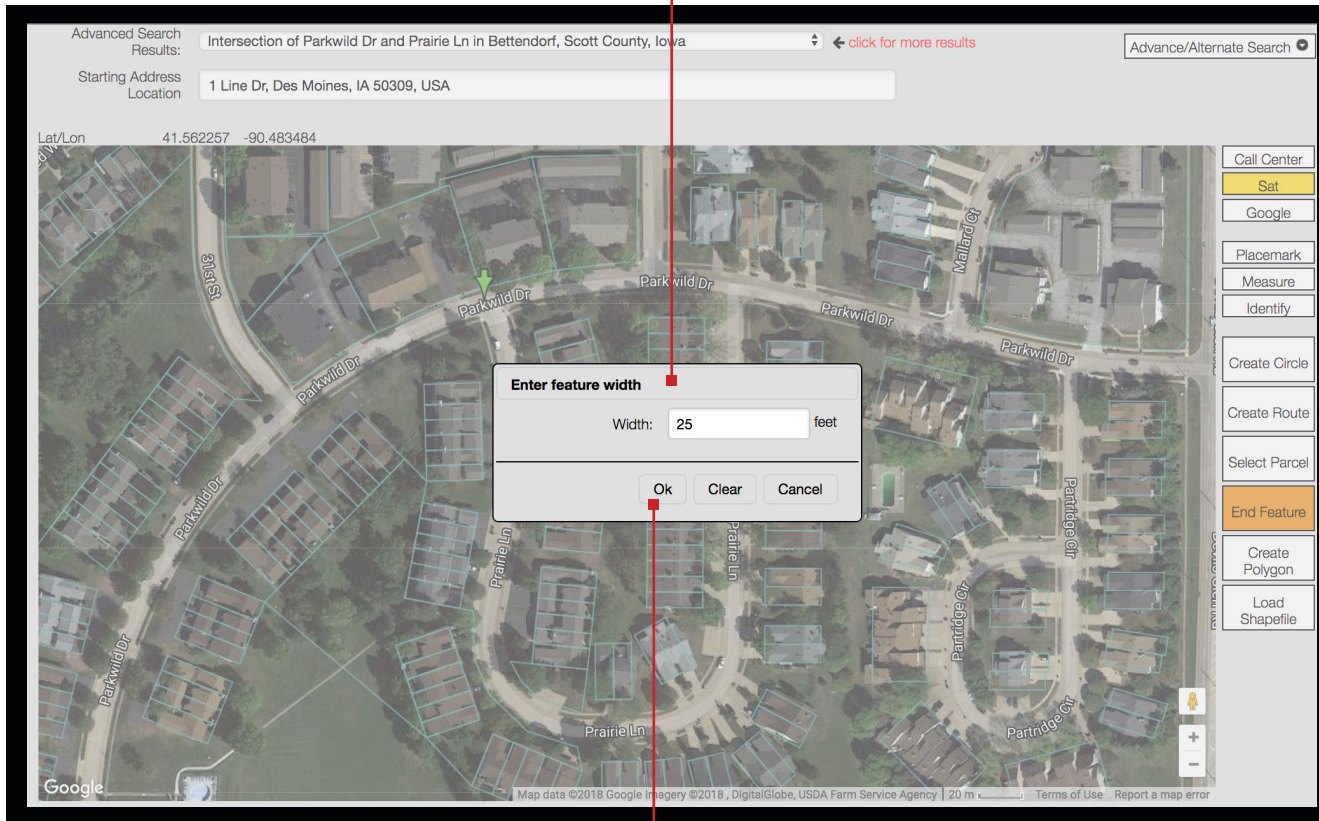
Toolbar buttons: Call Center, Sat, Google, Measure, Identify, Placemark, Create Circle, Create Route, End Parcel, Select Feature, Create Polygon, Load Shapefile, Edit Locate(s)



# SELECT FEATURE

Select Feature

The **Select Feature** tool allows users to create excavation entities based on available map features, such as roads and highways. Select Feature is a good choice for excavations taking place along existing roadways. You can create as many Feature entities as needed.



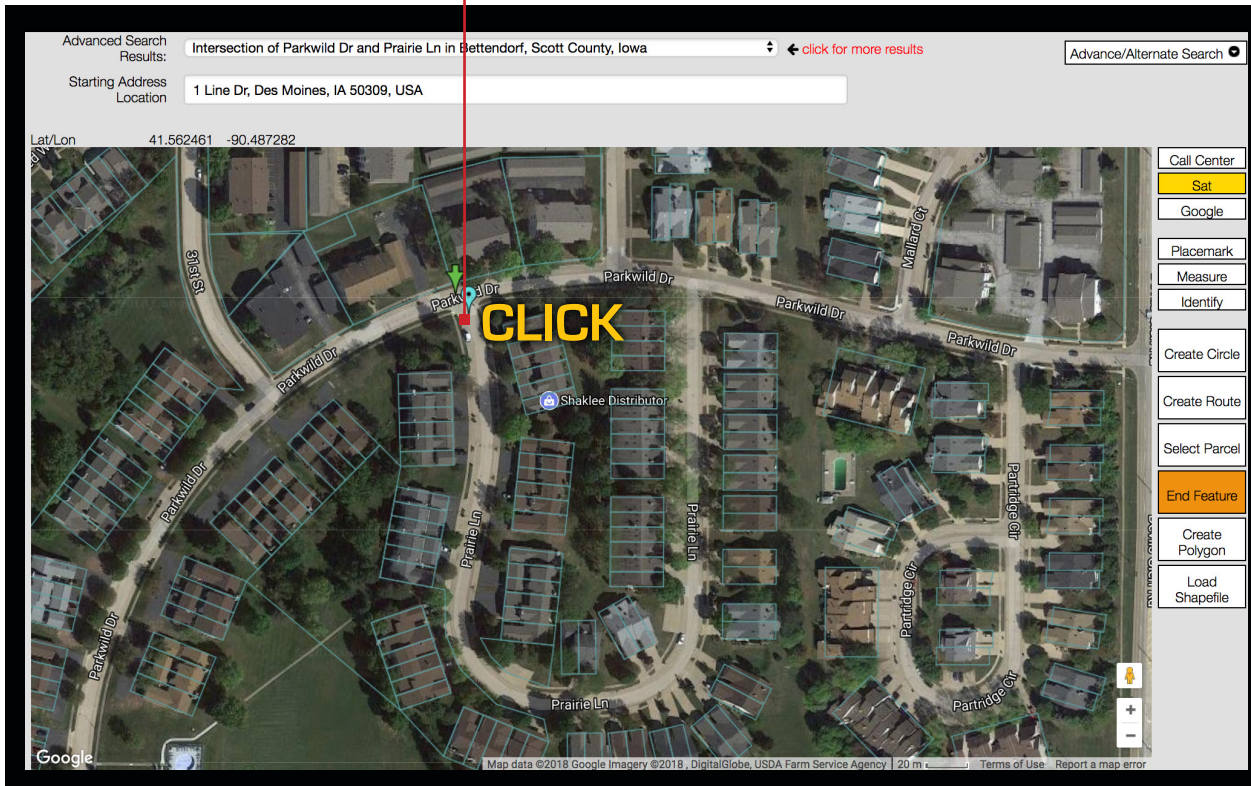
First click the **Select Feature** tool. You will be prompted to enter a width in feet. Once you have specified a width click **Ok**.



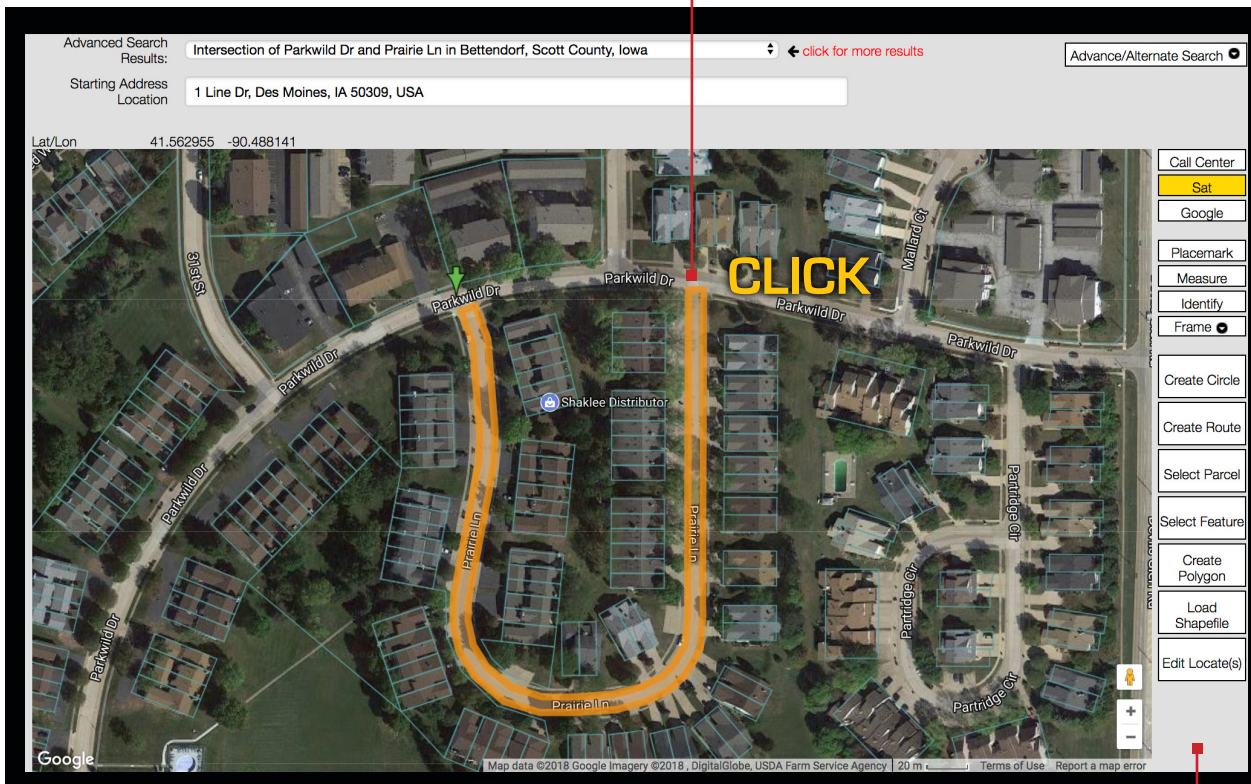
# SELECT FEATURE - CONTINUED

Select Feature

Next click on the road where the work will take place, at the beginning of the work area.



Then designate the end of the work area with a second click. If the feature is available an orange border will appear along that section of road.



To expand or edit the excavation entity click the Edit Locate(s) button.

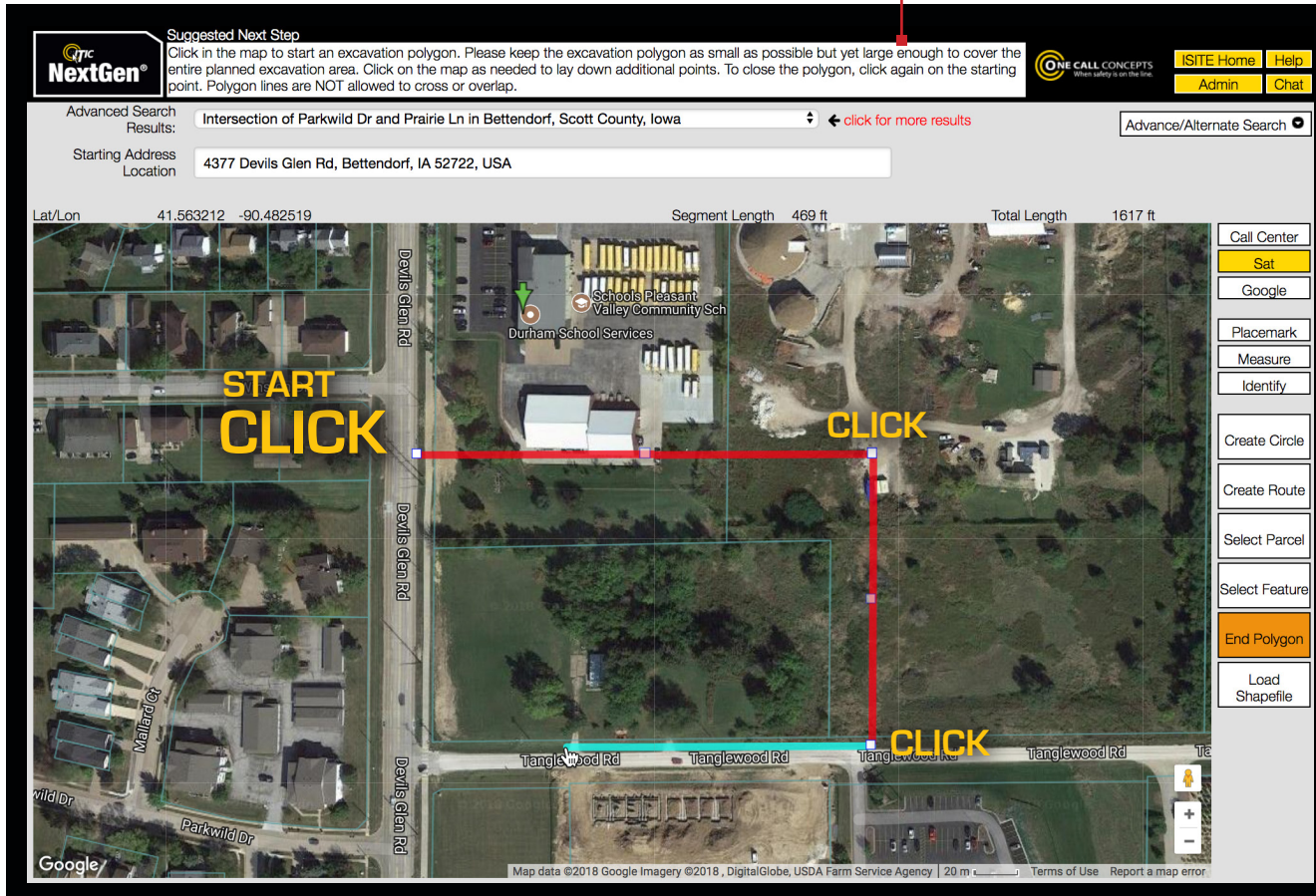


# CREATE POLYGON

Create Polygon

The **Create Polygon** tool should only be used when no other mapping options will adequately define the excavation area. The **Create Polygon** tool allows you to “free-hand” draw an excavation entity. When using the **Create Polygon** tool please keep the excavation polygon as small as possible, yet large enough to cover the entire planned excavation area.

First click the **Create Polygon** button. Begin by making a single click on the map where you would like to set your first point.

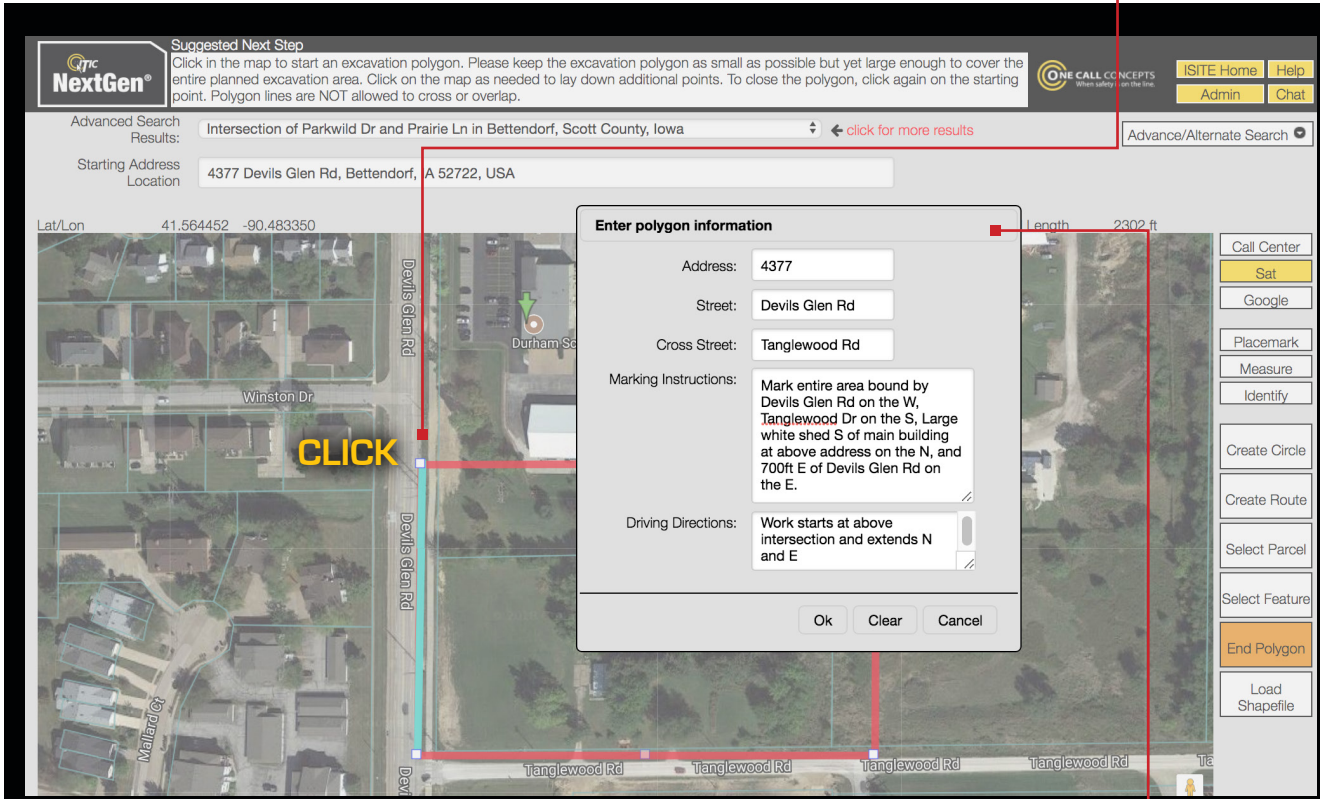


Continue setting points until you completely encompass the entire area of excavation.

# CREATE POLYGON - CONTINUED

Create Polygon

To close/complete the polygon, simply click the same square point where you began.



You will then be prompted to enter information about the dig site. All fields are required.

Once you have completed the form click OK.



To expand or edit the excavation entity click the Edit Locate(s) button.



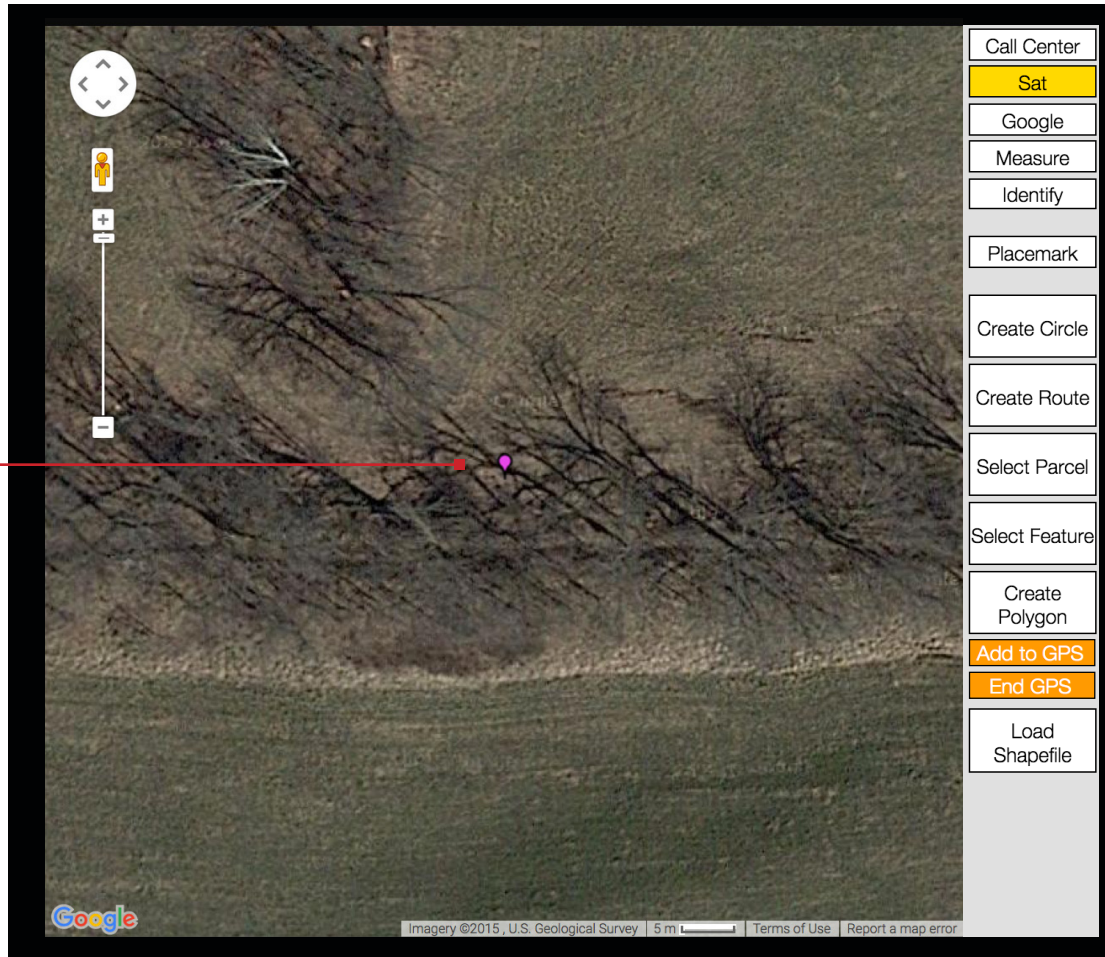
# CREATE GPS

Create GPS

The **Create GPS** tool utilizes the GPS capabilities on your device\* to create an excavation entity by walking the excavation perimeter and designating points. You can create as many GPS entities as needed.

When physically located at your work site walk to a corner of your excavation area and click the **Create GPS** button. This will activate **GPS Mode**. You should see a small purple pin-mark on the map where you are standing.

\* Please note that some devices may not have the required GPS capability needed to use this feature.



**NOTE:** ITIC constantly runs a background test to evaluate the accuracy of your device's GPS information. If your GPS information falls below ITIC's standard at any time, you will receive an alert. At this point you must wait for your device's GPS to "catch up" before continuing to create your GPS excavation entity, or click Cancel to exit GPS mode.

### Waiting for GPS

Attempt: 0  
Current accuracy: 21.392 meters  
Required accuracy: 20 meters

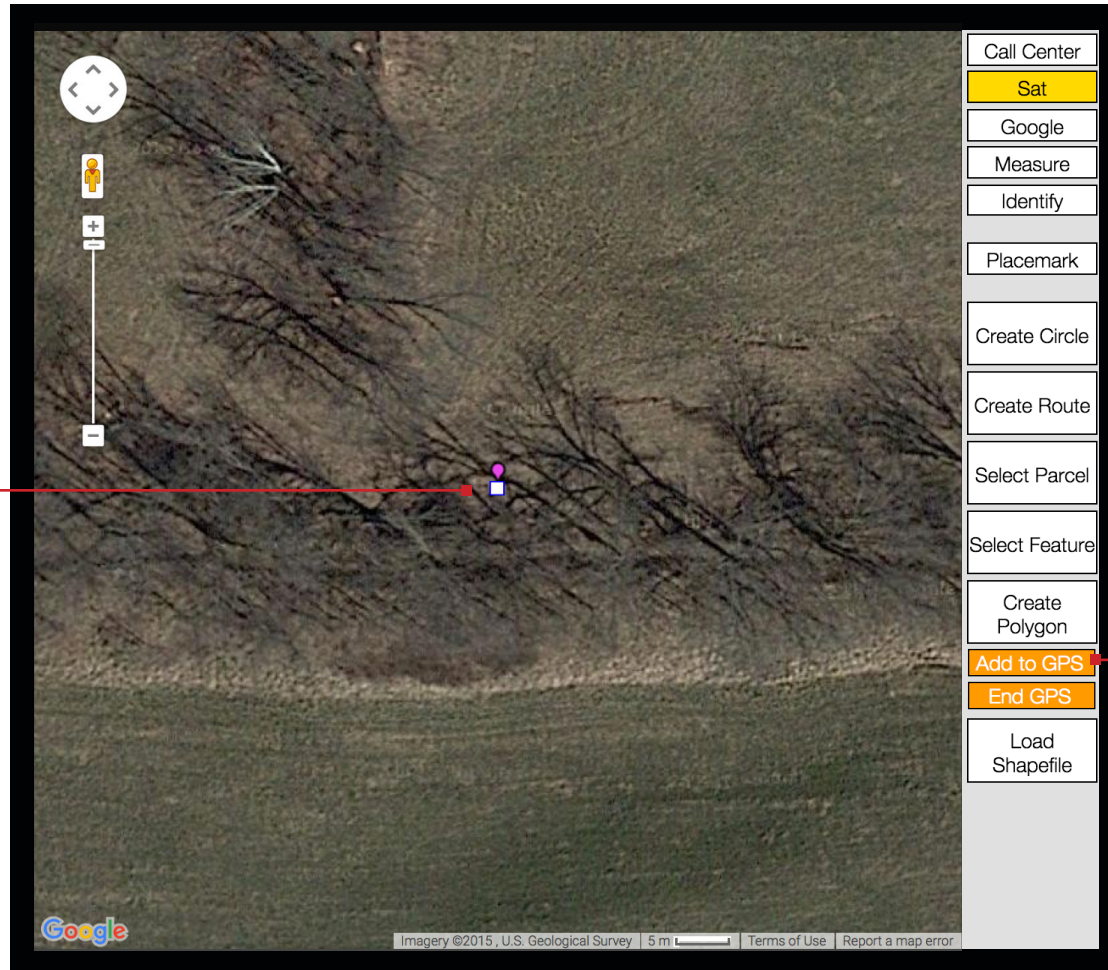
Cancel



# CREATE GPS - CONTINUED

Create GPS

You can now begin laying down borders for your GPS excavation entity. First click the **Add to GPS** button. This will place a corner point (represented by a small white box) where you are standing.



**NOTE:** ITIC constantly runs a background test to evaluate the accuracy of your device's GPS information. If your GPS information falls below ITIC's standard at any time, you will receive an alert. At this point you must wait for your device's GPS to "catch up" before continuing to create your GPS excavation entity, or click Cancel to exit GPS mode.

## Waiting for GPS

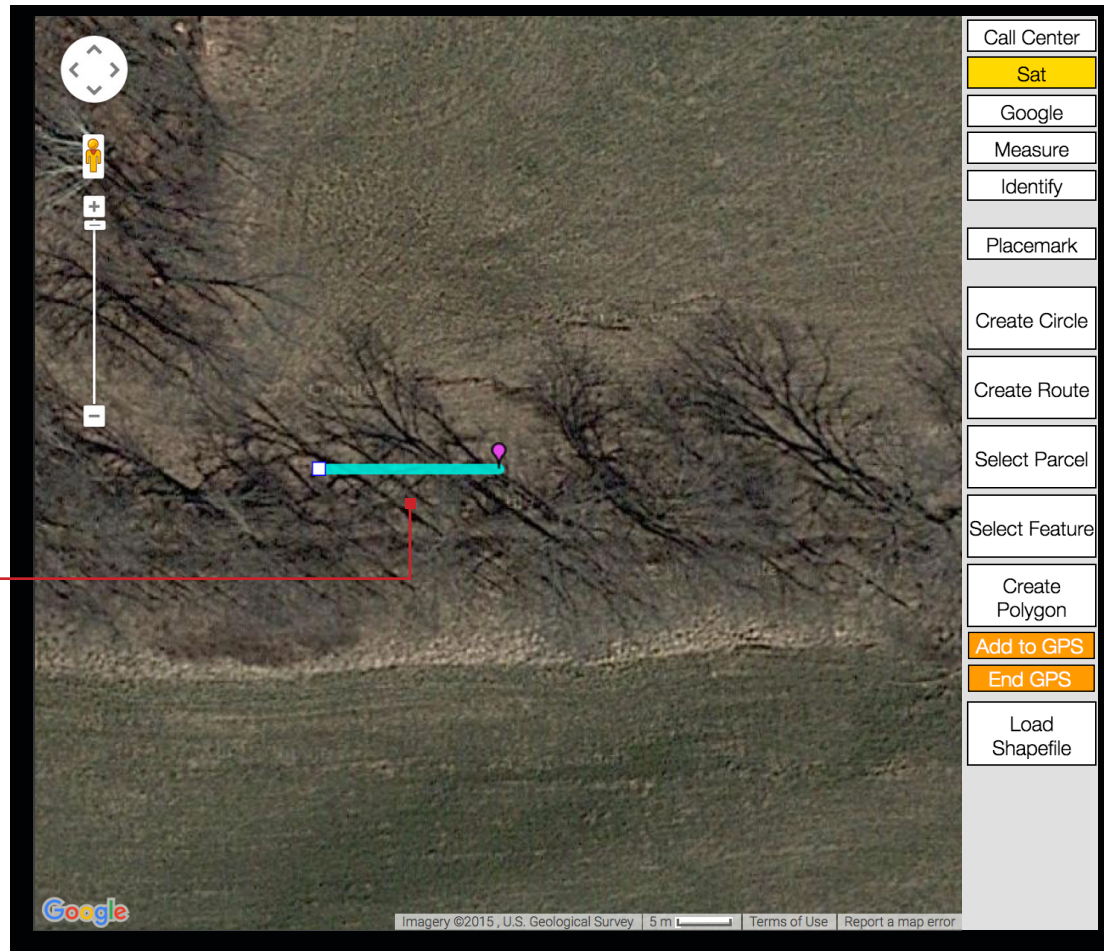
Attempt: 0  
Current accuracy: 21.392 meters  
Required accuracy: 20 meters

Cancel

# CREATE GPS - CONTINUED

Create GPS

Walk to the next corner of your excavation area. You should see a blue line trailing from your current location to the last corner point you placed.



**NOTE:** ITIC constantly runs a background test to evaluate the accuracy of your device's GPS information. If your GPS information falls below ITIC's standard at any time, you will receive an alert. At this point you must wait for your device's GPS to "catch up" before continuing to create your GPS excavation entity, or click Cancel to exit GPS mode.

### Waiting for GPS

Attempt: 0  
Current accuracy: 21.392 meters  
Required accuracy: 20 meters

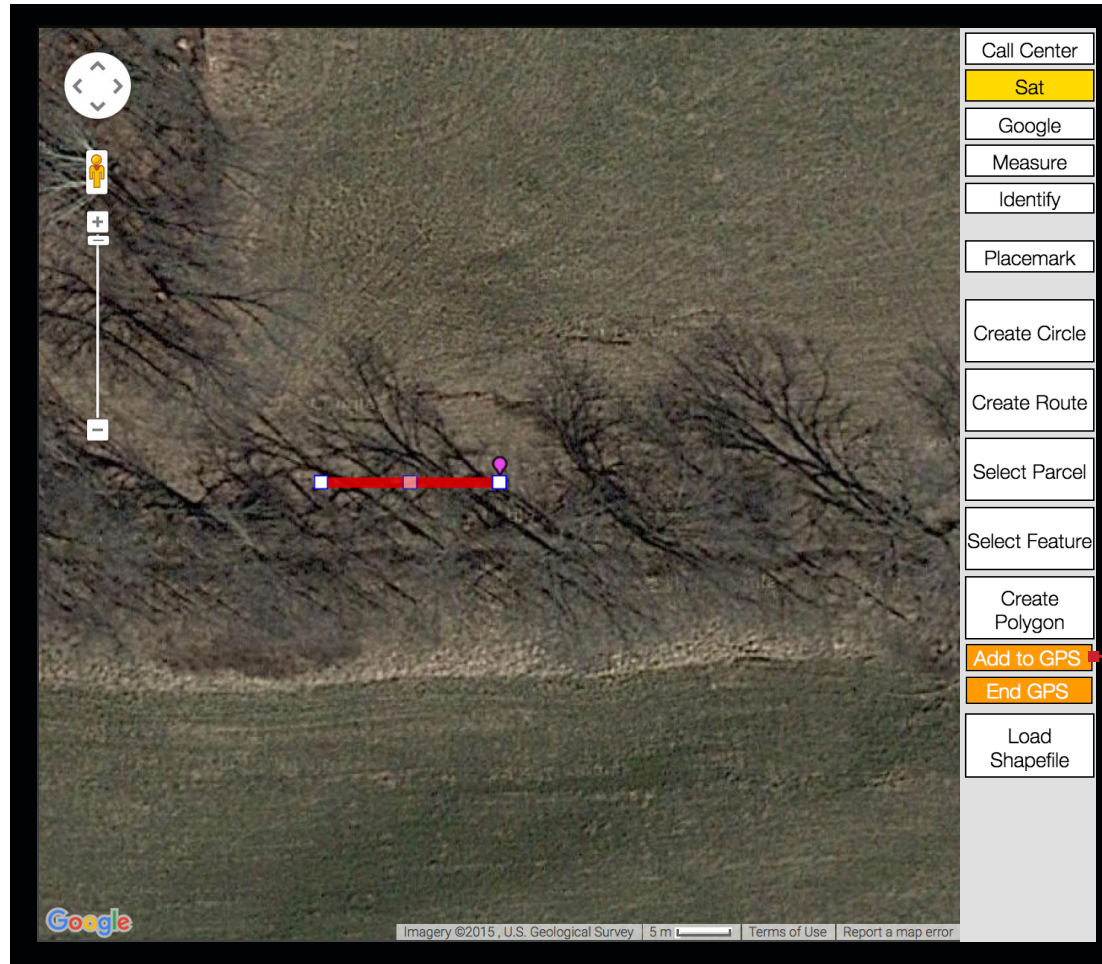
Cancel



# CREATE GPS - CONTINUED

Create GPS

Click **Add to GPS** to add another corner point.



**NOTE:** ITIC constantly runs a background test to evaluate the accuracy of your device's GPS information. If your GPS information falls below ITIC's standard at any time, you will receive an alert. At this point you must wait for your device's GPS to "catch up" before continuing to create your GPS excavation entity, or click Cancel to exit GPS mode.

### Waiting for GPS

Attempt: 0  
Current accuracy: 21.392 meters  
Required accuracy: 20 meters

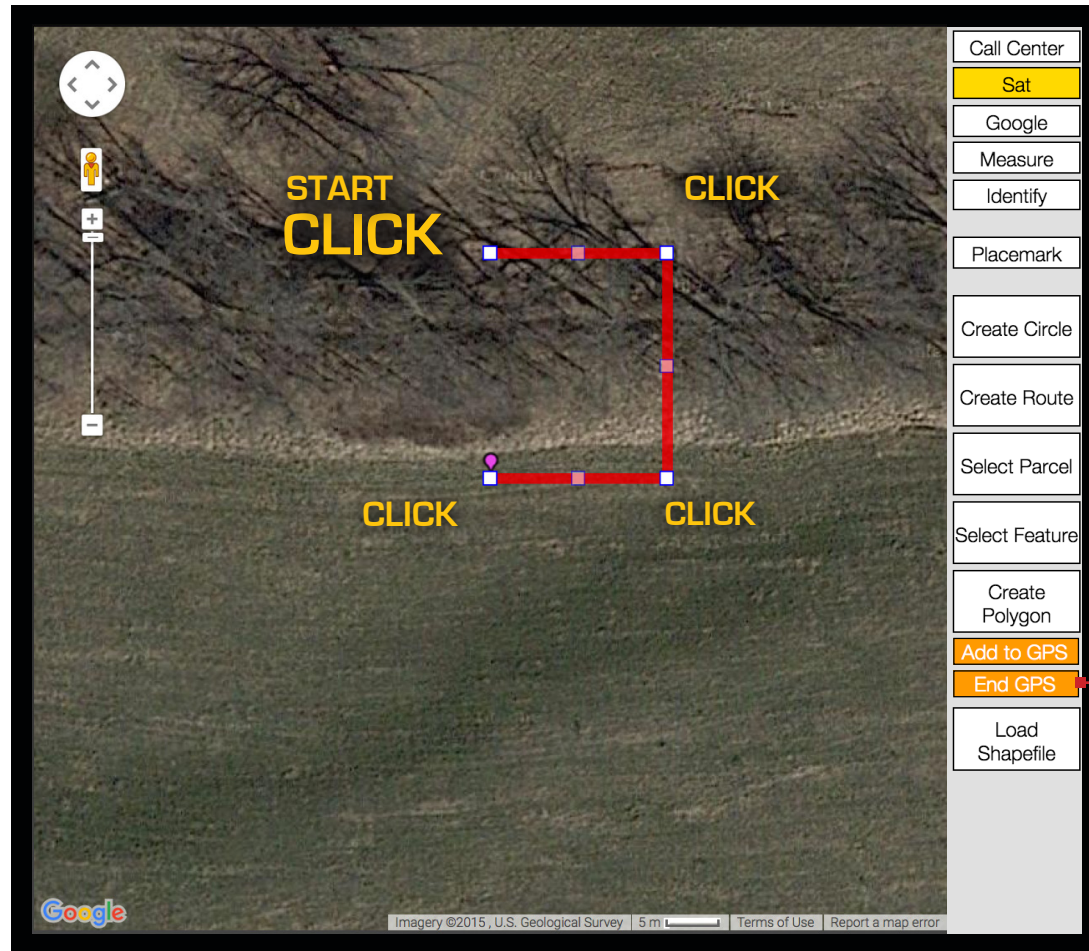
Cancel

# CREATE GPS - CONTINUED

Create GPS

Continue to walk the border of your work site until you have encompassed your entire excavation area.

When you are ready click **End GPS** to close out the excavation entity.



**NOTE:** ITIC constantly runs a background test to evaluate the accuracy of your device's GPS information. If your GPS information falls below ITIC's standard at any time, you will receive an alert. At this point you must wait for your device's GPS to "catch up" before continuing to create your GPS excavation entity, or click Cancel to exit GPS mode.

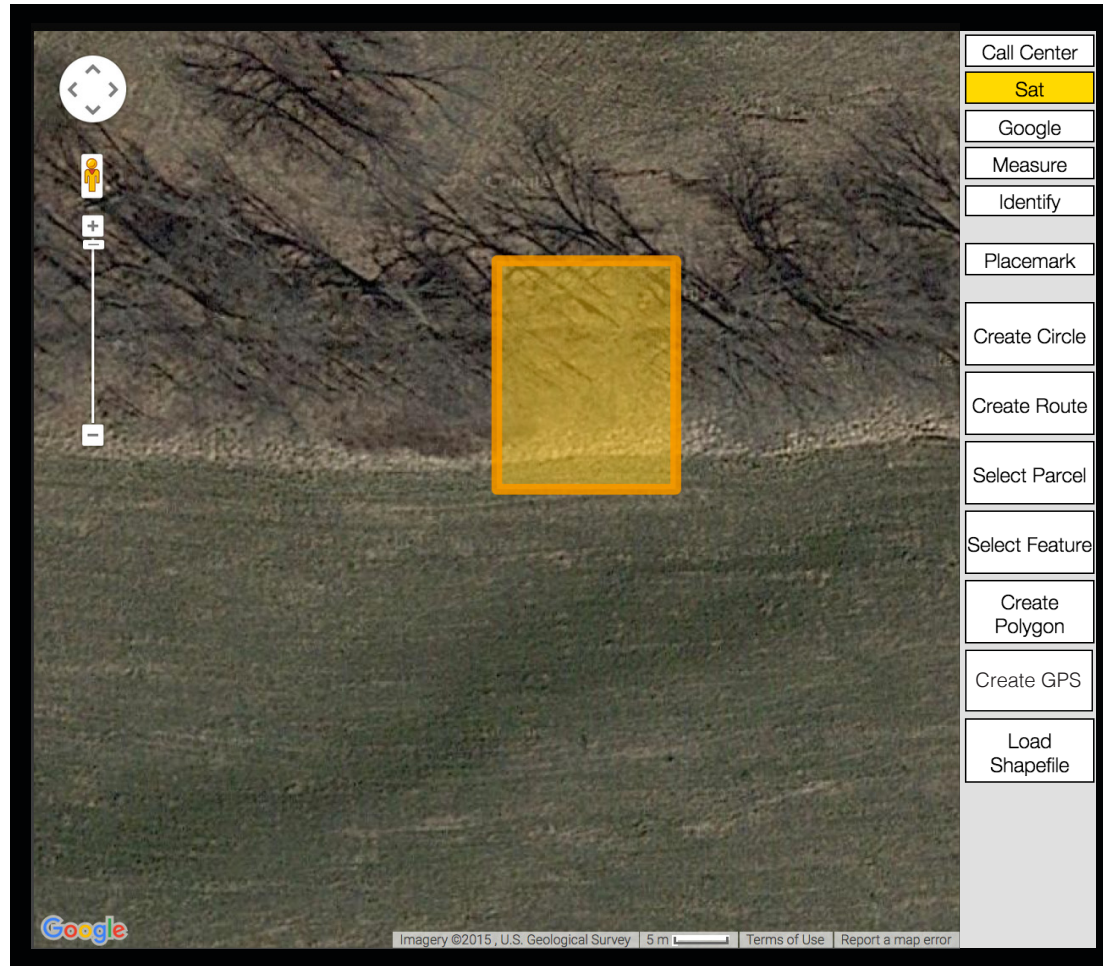
**Waiting for GPS**

Attempt: 0  
Current accuracy: 21.392 meters  
Required accuracy: 20 meters

Cancel



The completed GPS excavation entity will appear on the map in orange.



**NOTE:** ITIC constantly runs a background test to evaluate the accuracy of your device's GPS information. If your GPS information falls below ITIC's standard at any time, you will receive an alert. At this point you must wait for your device's GPS to "catch up" before continuing to create your GPS excavation entity, or click Cancel to exit GPS mode.

### Waiting for GPS

Attempt: 0  
Current accuracy: 21.392 meters  
Required accuracy: 20 meters

Cancel

# ENTITY GROUPING

The Entity Grouping menu allows you to choose between creating a separate ticket for each excavation entity, or combining multiple entities into one or more tickets.

To access the Entity Grouping menu click the white arrow located near the NEXT button in the lower-right corner of the screen.

Choose "One Excavation Entity per Ticket" to have ITIC create a different ticket for each Excavation Entity in your session.

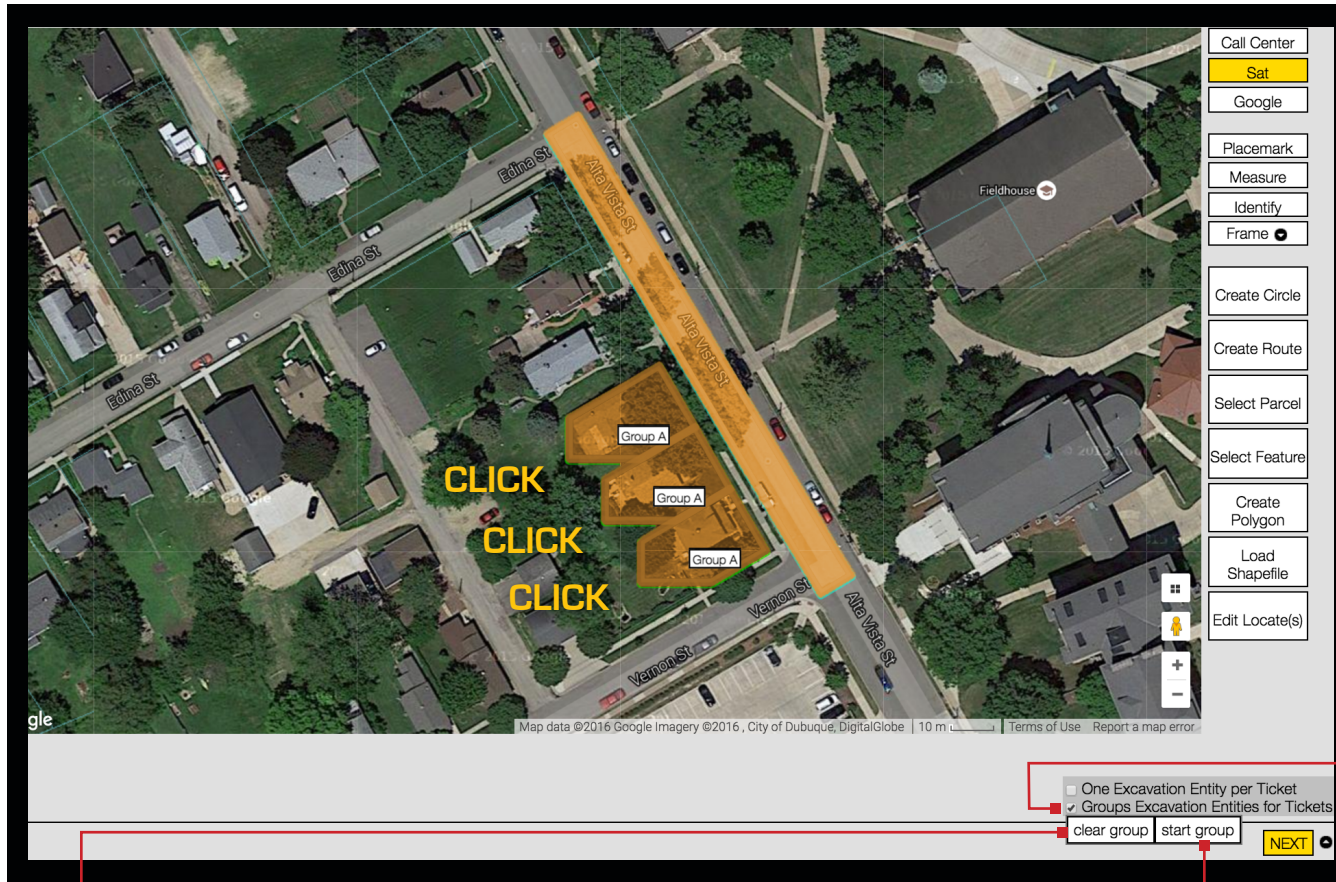


**NOTE:** No matter what you choose in the Entity Grouping menu, the rules as established by IOC apply. If you try to group a series of entities that must be split into multiple tickets, ITIC will split them into the necessary number of tickets automatically.



# ENTITY GROUPING - CONTINUED

Choose "Group Excavation Entities for Tickets" to combine multiple entities into one (or more) ticket(s).



Click the "Start Group" button, then click on each entity you would like to group together. A small icon will appear next to each entity labeling it part of Group A, Group B, etc.

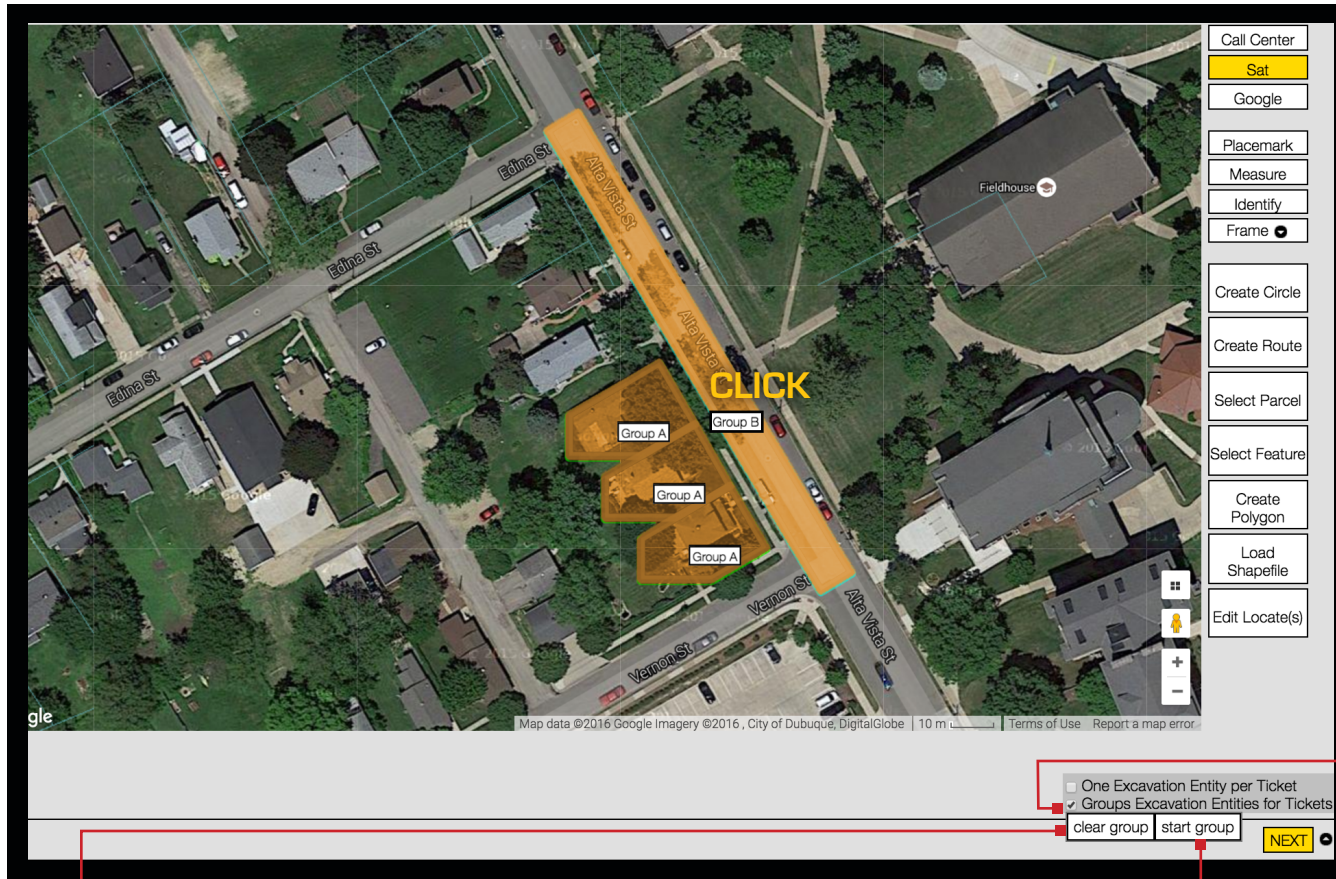
Click the "Clear Group" button to clear the current group you are on.

**NOTE:** No matter what you choose in the Entity Grouping menu, the rules as established by IOC apply. If you try to group a series of entities that must be split into multiple tickets, ITIC will split them into the necessary number of tickets automatically.



## ENTITY GROUPING - CONTINUED

Choose “Group Excavation Entities for Tickets” to combine multiple entities into one (or more) ticket(s).



Click the “Start Group” button, then click on each entity you would like to group together. A small icon will appear next to each entity labeling it part of Group A, Group B, etc.

Click the “Clear Group” button to clear the current group you are on.

**NOTE:** No matter what you choose in the Entity Grouping menu, the rules as established by IOC apply. If you try to group a series of entities that must be split into multiple tickets, ITIC will split them into the necessary number of tickets automatically.

# ENTITY GROUPING - CONTINUED

If your grouping preferences conform to the the notification policies as set by Iowa One Call, ITIC will combine the excavation entities in the manner you have specified.

The screenshot displays the ITIC interface for Ticket A. The 'LOCATION INFORMATION' section is filled out with the following details:

- COUNTY: DUBUQUE
- CITY: DUBUQUE
- ADDRESS #: 1525
- DIG STREET: ALTA VISTA ST
- NEAREST INTERSECTING STREET: VERNON ST
- MARKING INSTRUCTIONS: This ticket contains multiple locations: 3 Excavation Parcels. The first excavation parcel is at 1525 ALTA VISTA ST. The excavation site is contained within the NE quarter of the lot. The second excavation parcel is at 1525 ALTA VISTA ST. The excavation site is contained within the NE quarter of the lot. The third excavation parcel is at 1525 ALTA VISTA ST. The excavation site is contained within the NE quarter of the lot.
- SECTION: [Blank] QTR: NE | NW | SE | SW
- OTHER INFO: [Blank]

The map on the right shows an aerial view of the location with three orange-shaded rectangular areas, each labeled 'Ticket A', representing the excavation parcels. The map includes a 'Call Center' menu with options: Sat, Google, Measure, Identify, and Frame Locate(s).

The screenshot displays the ITIC interface for Ticket B. The 'LOCATION INFORMATION' section is filled out with the following details:

- COUNTY: DUBUQUE
- CITY: DUBUQUE
- ADDRESS #: [Blank]
- DIG STREET: ALTA VISTA ST
- NEAREST INTERSECTING STREET: EDINA ST
- MARKING INSTRUCTIONS: The excavation route begins at the intersection of ALTA VISTA ST and EDINA ST. Starting at this point (point 1), proceed along ALTA VISTA ST 350 feet SSE(ending at point 2). The excavation takes place within a 20 foot width of this entire route. Point 1: Lat:42.50428 Long: -90.682653 Point 2: Lat:42.503454 Long: -90.681987
- SECTION: [Blank] QTR: NE | NW | SE | SW
- OTHER INFO: [Blank]

The map on the right shows an aerial view of the location with a yellow-shaded line representing the excavation route along Alta Vista St, labeled 'Ticket B'. The map includes a 'Call Center' menu with options: Sat, Google, Measure, Identify, and Frame Locate(s).

If you do not choose an option in the Entity Grouping Menu ITIC will split or combine the excavation entities as efficiently as possible.

**NOTE: No matter what you choose in the Entity Grouping menu, the rules as established by IOC apply. If you try to group a series of entities that must be split into multiple tickets, ITIC will split them into the necessary number of tickets automatically.**



# PRECISE MAPPING AND WHY IT'S IMPORTANT

NextGen automatically creates Location Information based on the excavation entities you create in the map interface. NextGen uses base map data to convert the areas you have mapped into literal marking instructions. It is essential that you create excavation entities that precisely match your dig area(s) for the best results possible. To facilitate this, NextGen offers several options for creating your excavation entities.

Let's take a look at a few examples:

## EXAMPLE 1

The screenshot displays the NextGen software interface. At the top left, the NextGen logo is visible. A notification banner states: "The number of tickets created is based on call-center policy for the excavation entities created. Click on each 'Ticket' tab appearing below to verify the accuracy of the information depicted in the map at the right AND the corresponding 'Location Information' text on the left. A red globe in the ticket tab indicates that this ticket has not yet been viewed. A red exclamation point in the ticket tab indicates that information in the text on the left is incomplete. See the corresponding red exclamation point next to the". On the right side, there are navigation buttons: "ISITE Home", "Help", "Admin", and "Chat".

The main interface is divided into two sections. On the left is a form titled "Ticket A" with a red exclamation point icon. It contains three sections: "EXCAVATOR INFORMATION", "EXCAVATION INFORMATION" (with a "PROFILE" button), and "LOCATION INFORMATION". The "LOCATION INFORMATION" section includes fields for County (POLK), City (ELSEWHERE CITY), Address # (7701), Dig Street (CANTON AVE), Nearest Intersecting Street (EASTOVER AVE), and Another Intersecting Street (MT OLIVE AVE). A "LOCATION DESCRIPTION" field contains the text: "The excavation route is located in the lot at 7701 CANTON AVE. The first point is located approximately 1185 feet SE from the northwest corner of the lot. Starting at this point (point 1), proceed approximately 215 feet N to point 2; from that point approximately 690 feet E to point 3. Mark a 40 foot width for the entire route." There are also "CC EMAIL" and "ATTACH" buttons at the bottom of the form.

On the right is a satellite map showing the excavation route. The route is marked with a yellow line and three points (1, 2, 3). Point 1 is at the intersection of Eastover Ave and Canton Ave. The route goes north from point 1 to point 2, then east from point 2 to point 3. A red globe icon is present in the top left of the map area. A "Call Center" button is visible in the top right of the map area.

A text box at the bottom of the screenshot repeats the location description: "The excavation route is located in the lot at 7701 CANTON AVE. The first point is located approximately 1185 feet SE from the northwest corner of the lot. Starting at this point (point 1), proceed approximately 215 feet N to point 2; from that point approximately 690 feet E to point 3. Mark a 40 foot width for the entire route."

In this example, work is taking place along a walking path that starts at the intersection of Eastover Ave and Canton Ave, going north and then east to the intersection of the walking path and a dirt path going north. The Create Route tool will be the most effective in this situation.

Using satellite imagery to guide the mapping, we've drawn a Route entity going north from the intersection of Eastover Ave and Canton Ave to the turn in the path, then east to the intersection with the dirt path.

NextGen then analyzes the excavation entity and creates marking instructions and location information to describe the area enclosed by the user.



# PRECISE MAPPING AND WHY IT'S IMPORTANT - CONTINUED

## EXAMPLE 2



The number of tickets created is based on call-center policy for the excavation entities created. Click on each "Ticket" tab appearing below to verify the accuracy of the information depicted in the map at the right AND the corresponding "Location Information" text on the left. A red globe in the ticket tab indicates that this ticket has not yet been viewed. A red exclamation point in the ticket tab indicates that information in the text on the left is incomplete. See the corresponding red exclamation point next to the "Information" tabs below to



ISITE Home Help  
Admin Chat

Ticket A  
GROUP A

**EXCAVATOR INFORMATION**

**EXCAVATION INFORMATION** PROFILE

**LOCATION INFORMATION**

COUNTY: POLK  
CITY: ELSEWHERE CITY CITY LIMITS: Y  
ADDRESS #: 2500  
DIG STREET: LEXINGTON DR  
NEAREST INTERSECTING STREET: ROLLING HILLS DR  
ANOTHER INTERSECTING STREET: SARATOGA BLVD  
LOCATION DESCRIPTION: This ticket contains multiple locations: 3 Excavation Parcels.  
The first excavation parcel is at 2500 LEXINGTON DR. Mark the entire lot.  
The second excavation parcel is at 2508 LEXINGTON DR. Mark the south half of the lot.  
The third excavation parcel is at 2504 LEXINGTON DR. Mark the south half of the lot.  
OTHER INFO:

Lat/Lon: 38.551597 -92.219047

Call Center  
Sat  
Google  
Measure  
Identify  
Frame  
Locate(s)

This ticket contains multiple locations: 3 Excavation Parcels.

The first excavation parcel is at 2500 LEXINGTON DR. Mark the entire lot.

The second excavation parcel is at 2508 LEXINGTON DR. Mark the south half of the lot.

The third excavation parcel is at 2504 LEXINGTON DR. Mark the south half of the lot.

In this example, landscaping will take place in the front and back yards of addresses 2500, 2504, and 2508 Lexington Dr. The Select Parcel tool will be the most effective in this situation.

Using satellite imagery we can see that we needed to select only the south halves of the parcels for the 2504 and 2508. However, we selected the entire parcel of 2500 Lexington Dr in order to encompass both the back and front yards of that address.

# PRECISE MAPPING AND WHY IT'S IMPORTANT - CONTINUED

## EXAMPLE 3

**NextGen** The number of tickets created is based on call-center policy for the excavation entities created. Click on each "Ticket" tab appearing below to verify the accuracy of the information depicted in the map at the right AND the corresponding "Location Information" text on the left. A red globe in the ticket tab indicates that this ticket has not yet been viewed. A red exclamation point in the ticket tab indicates that information in the text on the left is incomplete. See the corresponding red exclamation point next to the

ONE CALL CONCEPTS  
What's Safety's on the Site

ISITE Home Help  
Admin Chat

Ticket A !  
GROUP A

EXCAVATOR INFORMATION

EXCAVATION INFORMATION ! PROFILE

LOCATION INFORMATION

COUNTY: POLK  
CITY: ELSEWHERE CITY CITY LIMITS: Y  
ADDRESS #: 7500-1599  
DIG STREET: TRENTON AVE  
NEAREST INTERSECTING STREET: HARRISON AVE  
ANOTHER INTERSECTING STREET: LAMB AVE  
LOCATION DESCRIPTION: The excavation route begins at the intersection of TRENTON AVE and HARRISON AVE. Starting at this point (point 1), proceed along TRENTON AVE 665 feet E to LAMB AVE(point 2). Next proceed along LAMB AVE 370 feet S (ending at point 3). Mark a 40 foot width for the entire route.  
OTHER INFO:

Lat/Lon: 38.679776 -90.330470

Call Center  
Sat  
Google  
Measure  
Identify  
Frame Locate(s)

CC EMAIL ATTACH

The excavation route begins at the intersection of TRENTON AVE and HARRISON AVE. Starting at this point (point 1), proceed along TRENTON AVE 665 feet E to LAMB AVE(point 2). Next proceed along LAMB AVE 370 feet S (ending at point 3). Mark a 40 foot width for the entire route.

In this example, work is taking place in the road right of way of Trenton Ave between Harrison Ave and Lamb Ave, then in the road right of way of Lamb Ave between Trenton Ave and Milan Ave. The Select Feature tool will be the most effective in this situation.

Using the Select Feature tool we can simply click on the two blocks the work is taking place on, and NextGen creates an entity that encompasses both blocks. Because we've specified a width of 40ft, this is translated into the marking instructions.

## IN CLOSING

This ends the ITIC User's Manual. Remember to keep this manual handy when filing locate requests using ITIC, and refer back to it. If you require further assistance there are several resources available to you:

**Tutorial Videos** – Tutorial videos are available online at <http://www.iaitcnexgen.com/resources/>.

**Live Chat** – Click the Chat button in the upper-right corner of the screen to chat with a live operator. Live Chat is only available during normal business hours.



**Contact the Notification Center** – Email Iowa One Call at [ialead@occinc.com](mailto:ialead@occinc.com).

