

# **2022** **MIDWEST DAMAGE PREVENTION** **TRAINING CONFERENCE**

## Hit Kits: Your Tool to Document a Damage

Presented by: Nick Temple – Rhino Markers

Joe Jonas – HRP Construction and NUCA of Indiana

Aaron Holeman - IURC



# AUDIOVISUAL SERVICES PROVIDED BY



metronet<sup>TM</sup>

**THIS SESSION  
IS SPONSORED BY**



**ON THE SPOT**  
UTILITY RESOURCES LLC

# Nick Temple – Rhino Marking & Protection Systems, a Trident Solutions Company

Damage Prevention Consultant

- Trident is leading manufacturer of Damage Prevention and marking related products for the buried utility industry.
- 8 years of helping pipeline and utility operators across the US and Canada improve their Damage Prevention programs by using proven methods and products.





# Rhino Markers

What is a Hit Kit?

Why use a Hit Kit?

Who uses Hit Kits?

When and where to use a Hit Kit?



# Damage Investigation Tools

- Secure the damage area
  - No blowing gas
  - Power lines not electrified
- Personnel are safe
- Equipment is secured
- CALM DOWN



# Prepare Damage Investigation Tools

- Damage Report
- Phone/Camera
- Brush or Broom



**OGC OIL AND GAS COMMISSION** Engineering Branch  
Arlin Marcy Nelson  
100 N. 1000 11th Ave  
Fort St. John BC V1J 6M7  
www.ogc.gov.bc.ca

Phone: (250) 261-5767  
Fax: (250) 261-2650  
24 hr phone: (250) 261-5700

### PIPELINE INCIDENT REPORT

Form to be submitted under the authority of the Pipeline Act, R.S.B.C. 1996, c. 354, Pipeline Regulation, s. 2(2), to the Chief Inspecting Engineer, Pipeline and Facilities, Oil and Gas Commission, at the address noted above.

**For Commission Use Only**

Incident No.	Date Received	Investigator
Investigator's Comments		
<b>PART A—OPERATOR INFORMATION</b>		
Company Name		
Company Address		
Pipeline Name		
<b>PART B—TIME, WEATHER AND LOCATION OF INCIDENT</b>		
Date (MM/DD/YYYY)	Hour (24 hr system & time zone)	
Weather	Temperature °C	precipitation
GSA Check Location <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4		
Location (provide specific location using a drainage description (MLV, knif), and survey description or prominent landmarks)		
<b>PART C—ORIGIN OF SPILL/RELEASE</b>		
Facility involved <input type="checkbox"/> Line Pipe <input type="checkbox"/> Tank Farm <input type="checkbox"/> Pump Station <input type="checkbox"/> Compressor Bin <input type="checkbox"/> Regulator/Meter Bin <input type="checkbox"/> Gas Plant		
<input type="checkbox"/> Other related facility (specify):		
Equipment involved <input type="checkbox"/> Pipe <input type="checkbox"/> Valve <input type="checkbox"/> Pressure-relief device <input type="checkbox"/> Fitting <input type="checkbox"/> Compressor <input type="checkbox"/> Pump <input type="checkbox"/> Pressure vessel <input type="checkbox"/> Tank		
<input type="checkbox"/> Instrumentation <input type="checkbox"/> Other (specify):		
<b>PART D—SPILLS AND RELEASES (Report LVP and HVP spills only if in excess of 1.5 m³)</b>		
<input type="checkbox"/> Sweet gas <input type="checkbox"/> LVP <input type="checkbox"/> HVP <input type="checkbox"/> Toxic substance <input type="checkbox"/> Sour gas <input type="checkbox"/> Produced water		
Name of product/substance	m³	
Volume spilled/released	m³	Volume recovered
Was there a fire? <input type="checkbox"/> Yes <input type="checkbox"/> No		Was there an explosion? <input type="checkbox"/> Yes <input type="checkbox"/> No

OGC-pipelineincidentreport Rev. 01/10 Page 1 of 4



# Photo Documentation Tool

- Large Scale Rigid Ruler
- 360° Visibility





# Rhino Hit Kit +2

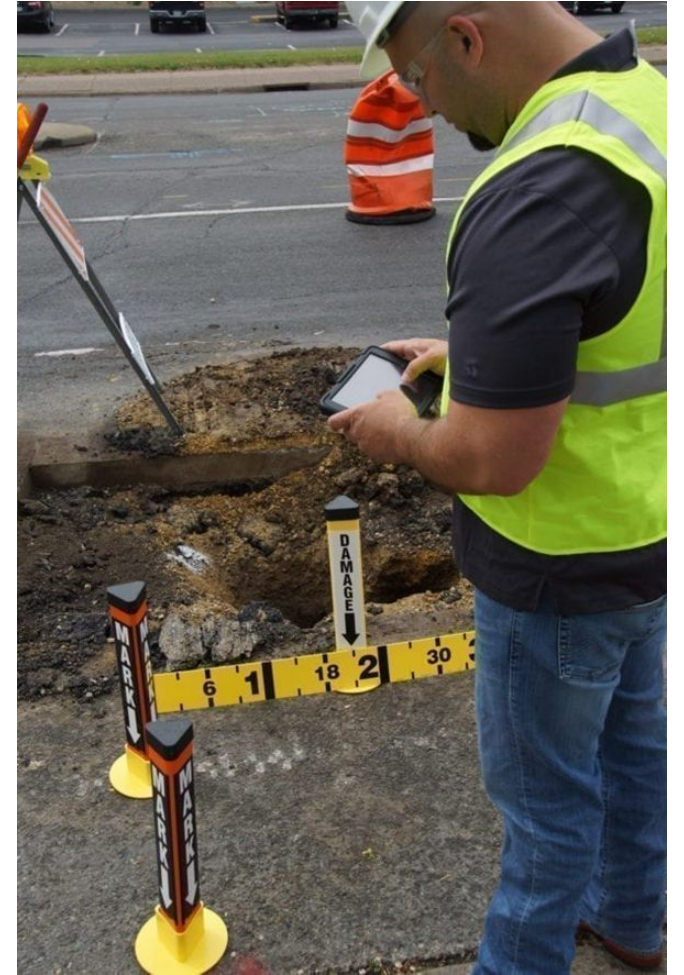
## THE ULTIMATE DAMAGE INVESTIGATION TOOL.

- History
- 1 damage post and 3 mark posts.
- Posts visible from 360 degrees.
- Convenient carry all bag.
- 36" ruler, available up to 72" long.
- Staking pins to secure bases to soil.
- Additional options at [Rhinomarkers.com](http://Rhinomarkers.com)



# Deploy Documentation Tool

- Damage Post as close as possible to the Damage
- Mark posts along the route of locate marks
- Nearest Mark post 45° angle from route





# Proceed With the Investigation



# Joe Jonas – HRP Construction

Utility Damage Prevention Specialist, Project Manager and Estimator

- 17 years of building water, sewer and infrastructure work in Northern Indiana
- 5 year of Utility Damage Prevention, Project Management and Estimating
- Former Vice President of NUCA of Indiana – 3 years and current Treasurer/Secretary of NUCA of Indiana
- [joej@hrpconstruction.com](mailto:joej@hrpconstruction.com)
- Office: 574-271-7800 Cell: 574-274-5716



# How does HRP Construction Utilize the Hit Kits in the Field?





# Here are the basics...

- HRP Construction Field Supervisors all carry a Hit Kit with them in their trucks or are always in the Job Box onsite.
- When there is a damage, the crew follows all safety steps to prevent any injury or further damage. We STOP what we are doing and make the calls.
- Once the area has been cleared by emergency personnel and operator representative(s), we grab the Hit Kits and begin our initial documentation of the site.

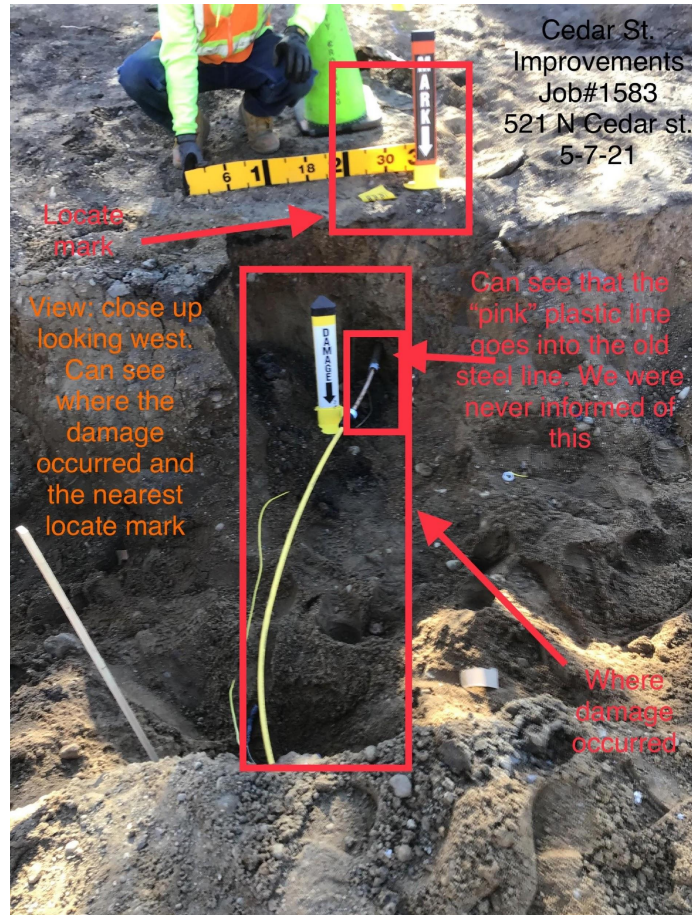


# Time to Take the Pictures

- Set up the damage post and locate marking posts.
- Use the rigid ruler.
  - Sometimes we supplement the ruler with a grade rod or story pole for identifying distance from the locate mark to the damage.
- Take pictures from all angles and from different distances. This helps create perspective for the parties reviewing the damage. Remember, the folks reviewing the damage reports and pictures were not there. Give them as much information as you can to defend or state your case.
- Let us look at several examples of pictures and the use of the Hit Kit on some of our damages.

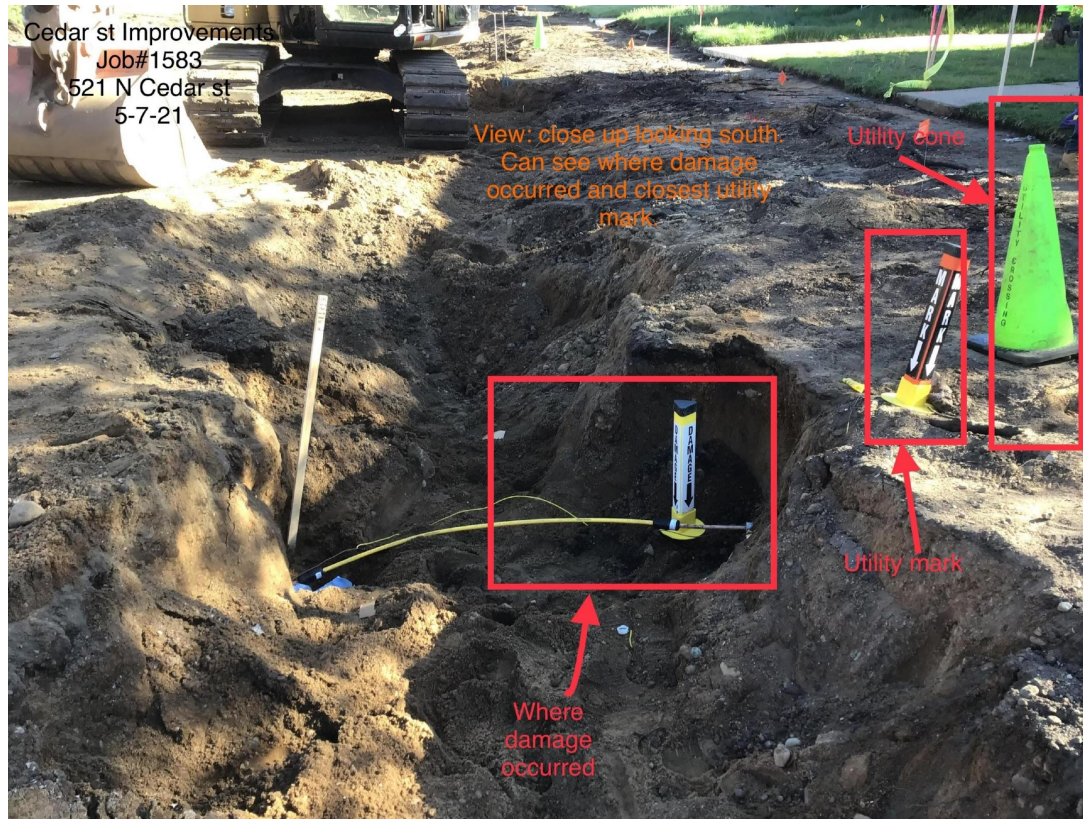


# Examples



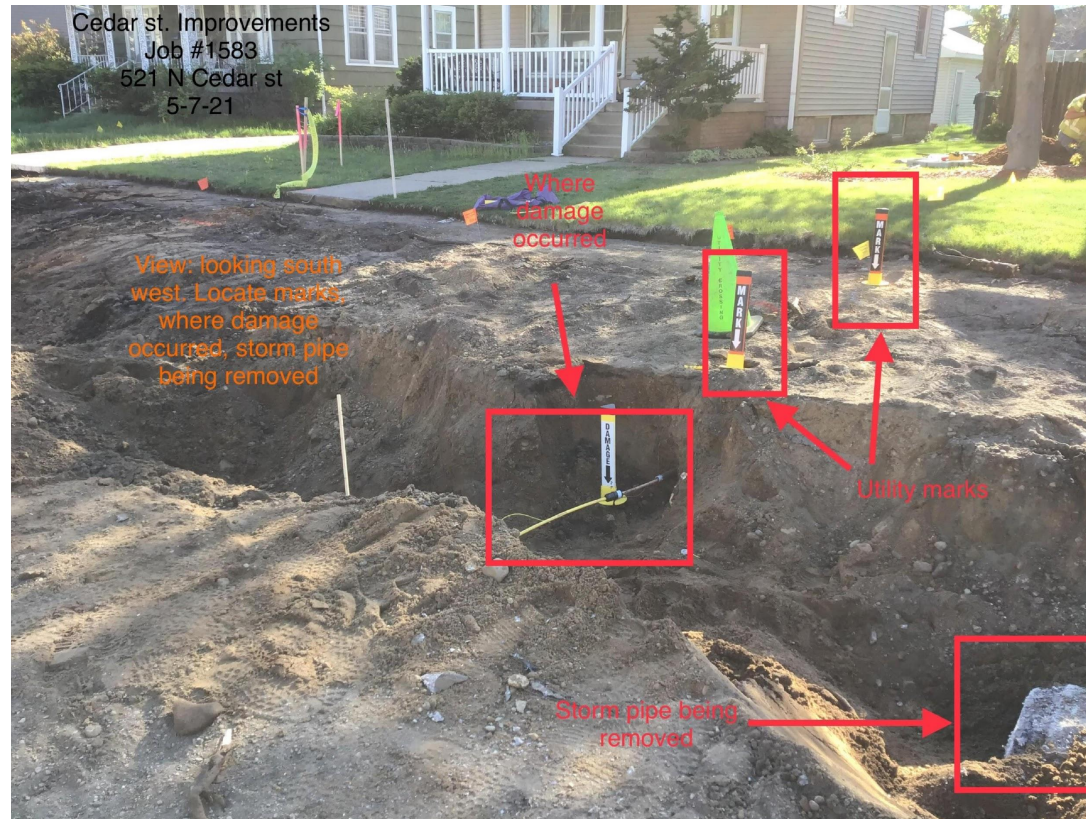


# More examples of use in the field.



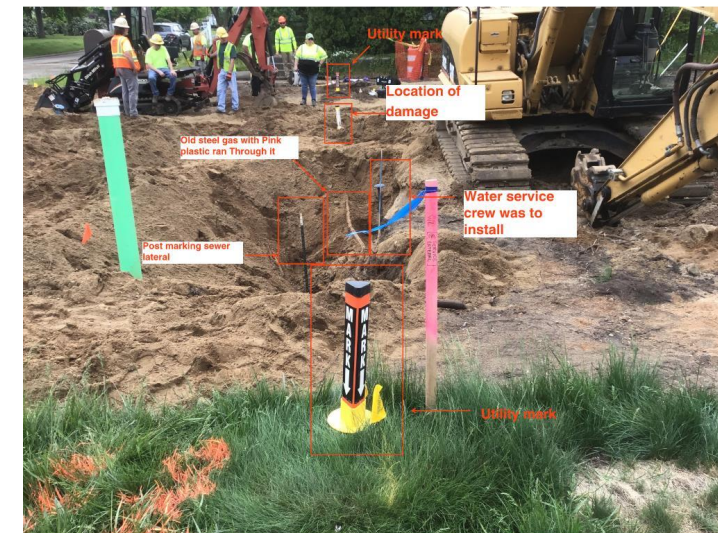


# More examples of use in the field.



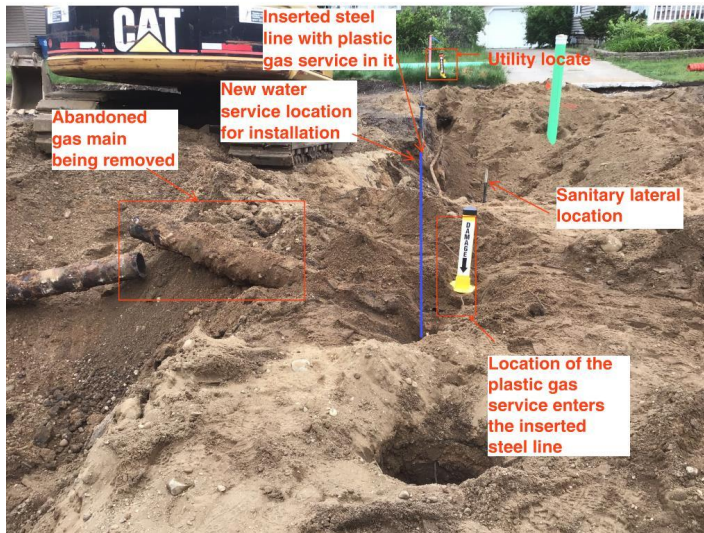
#1583 - Cedar St  
Improvements  
311 N. Cedar St  
Date: 5-19-21  
HRP Construction

View: looking east,  
showing: locate marks,  
where damage occurred,  
inserted steel line that the  
plastic gas service runs  
through. Water service and  
sewer lateral we have to  
replace with new.





# More examples of use in the field.



View: looking west. Showing locate marks, gas service damage and abandoned steel gas main being removed. Work area that a new water service and sewer lateral are to be installed. Nipsco was contacted on 5-18-21 to assist with gas service relocation, but NIPSCO declined to assist.

#1583 - Cedar St  
Improvements  
311 N. Cedar St  
Date: 5-19-21  
HRP Construction

Cedar st Improvements  
413 N Cedar st.  
Job # 1583  
6-18-21

View: Looking west. Can see the marks for the gas service are 5ft away from where the damaged occurred.



# More examples of use in the field.

Cedar st Improvements  
413 N Cedar st.  
Job # 1583  
6-18-21

View: looking east. Can  
see locate marks.  
Damage occurred 5 ft  
away from marks.



Cedar st Improvements  
413 N Cedar st.  
Job # 1583  
6-18-21

View: close up looking  
east. Can see where the  
gas service is mark and  
where it was damaged 5ft  
off the marks.

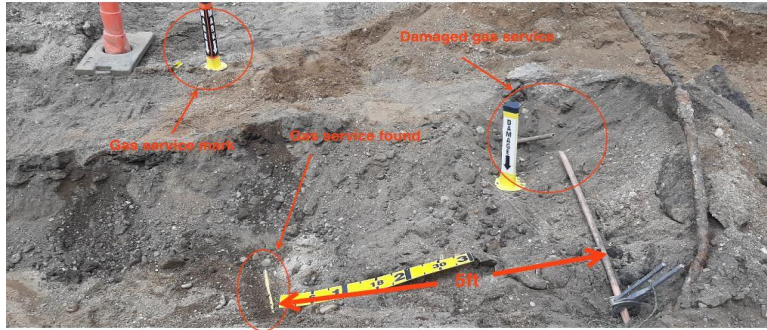




# More examples of use in the field.

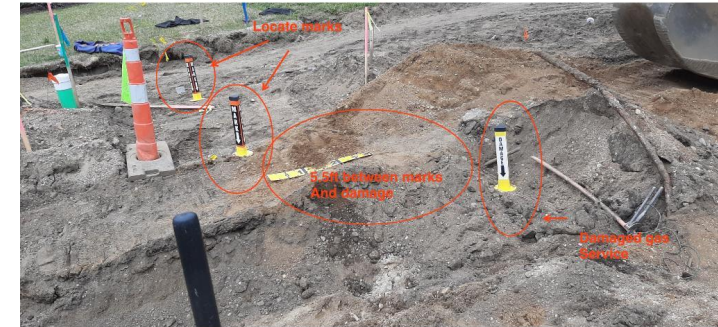
Cedar st Improvements  
413 N Cedar st.  
Job # 1583  
6-18-21

View: close up. We had found the gas service  
On the marks. 5 ft away from it was another  
Gas service not retired at the main. It was  
Never located.



Cedar st Improvements  
413 N Cedar st.  
Job # 1583  
6-18-21

View: close up. Can see locate marks, where damage  
occurred, and the distance between marks and utility.

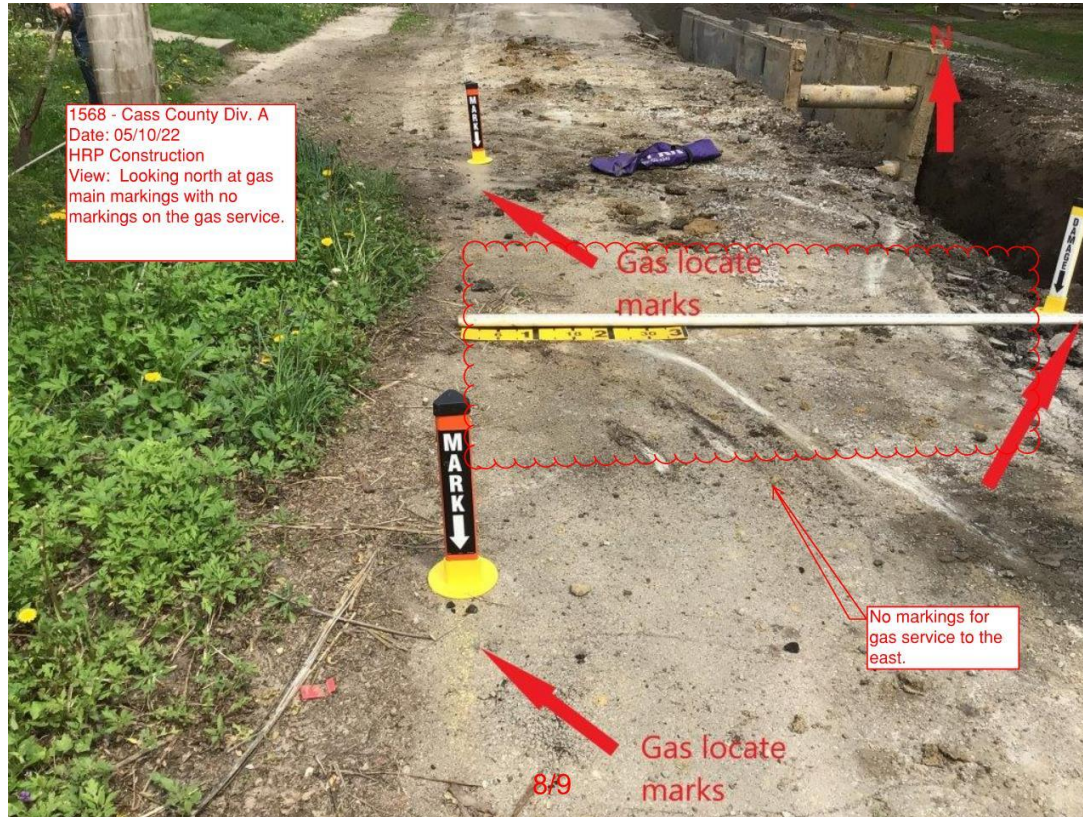








# More examples of use in the field.



# Some helpful hints and tips...

- Take your time to take the pictures. This is important. Remember the folks reviewing these photos were not there.
- Take more pictures than you think you need. We submit a minimum of 10 each with each damage.
  - You can always select the few that help your case best. I ask the Supervisors to get at least 15 or so. Give us options.
- Make your reports and pictures clean and professional.
  - If you show that you took the time to defend your case, this represents that you care about your work. You are committed to getting the right outcome.



# Aaron Holeman

aholeman@urc.in.gov

Pipeline Senior Safety Engineer, Jan. 2017 – Present

- Damage Prevention & Public Awareness SME

Indiana 811, May 2003 – Jan. 2017

- Quality Control/Quality Assurance





# Hit kit distribution by the IURC

1,000 distributed 2020 – 2022  
1,000 more ordered and arriving soon



# Responses from Excavators

No response from the excavator in roughly 50% of the damage cases, causing them to miss the opportunity to tell their side of the story and participate in the process from the beginning.



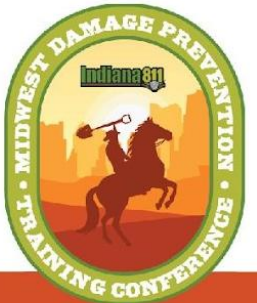


# Examples of Hit Kit Pictures





# Examples of Hit Kit Pictures





# Examples of Hit Kit Pictures





# Examples of Hit Kit Pictures





# Examples of Hit Kit Pictures





# Examples of Hit Kit Pictures





# Examples of Hit Kit Pictures



# Questions

Feel free to reach out to any of us for further information or questions.  
Thanks for participating in this session.







## CEU & SCHOLARSHIP ATTENDEES:

Attendees who would like to receive CEU credit or who are scholarship recipients, please scan the QR code OR visit the link below and fill out the online form.

<https://www.midwest811conference.com/hit-kits>

