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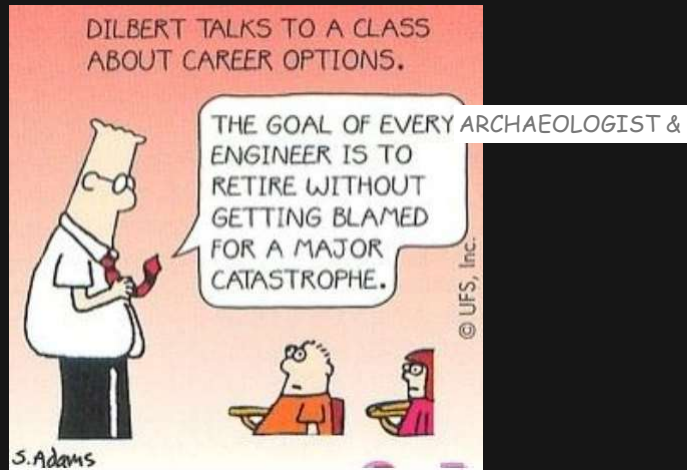
Why does MDOT do archaeology?

- Section 106 of the National Historic Preservation Act (Federal)

Federal Agencies or Non-federal Agencies receiving Funding or Federal Permits must take into account the effects of their projects on archaeological sites
- Section 4(f) (Federal - Department of Transportation)
- Native American Graves Protection and Repatriation Act (Federal)
- Natural Resources and Environmental Protection Act (Michigan)
Act 451 of 1994, Part 761 Aboriginal Records and Antiquities

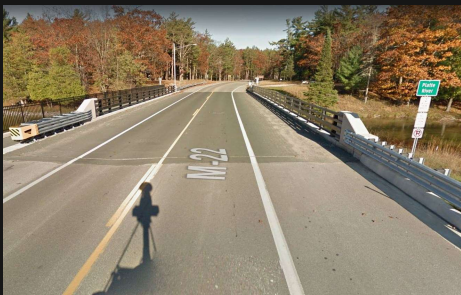
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What do engineers and archaeologists have in common?

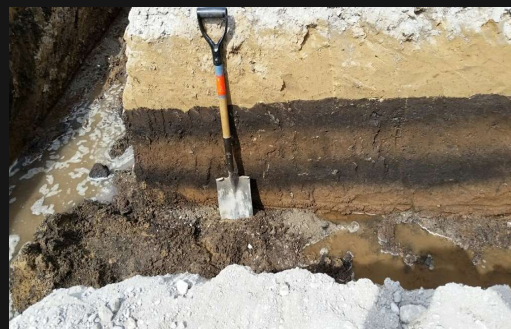


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What information do I need to clear a project?



1) What are the worst case limits of ground disturbing construction?



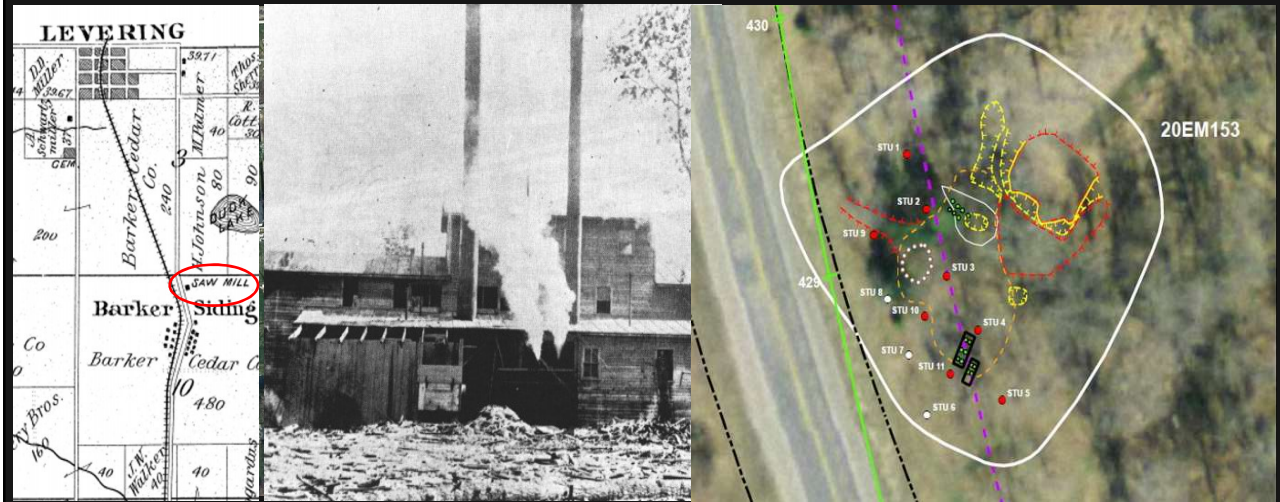
2) What are the horizontal **and** vertical extents of disturbance?



3) Will ground disturbing construction will extend into areas not disturbed by previous construction inside or outside the existing ROW?

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How much ground disturbance will require survey?
It depends on the archaeological sensitivity of the area that
 will be disturbed



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What types of projects require field work most often?

- New road projects
- Bridge replacements
- Off-Corridor work areas
 (wetland replacements, parking/staging areas, trails, dewatering areas)
- Projects near cemeteries
- Capacity improvements and reconstructions
 (Turn lanes, widenings, roundabouts curve re-alignments and reconstructs)



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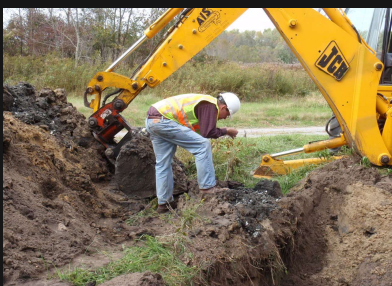
NEPA review priorities and mitigation measures



- Clear project without mitigation
- Work with the MDOT Project Manager to limit ground disturbance
- Avoid impacts to known sites and sensitive areas
- Survey only when necessary
- Monitor during construction

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How much do archaeological investigations cost?



- Small Survey 4 k to 12 k
- Medium Survey 12 k to 30 k
- Large Survey >30 k
- National Register Evaluation per Site ca. 15 k to 150 k
- Data Recovery Excavation per Site ca. 150 k to 1.5 million

(Costs include background research, fieldwork, analysis, report)

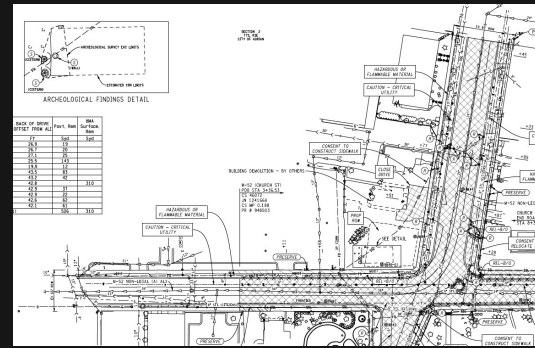
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NEPA review in practice

- Only 56 (2.3%) of over 2400 projects required archaeological investigations
- Survey found archaeological sites for 37 (1.5%) of those 56 projects
- Only 2 projects (0.08%) required large scale date recovery excavations



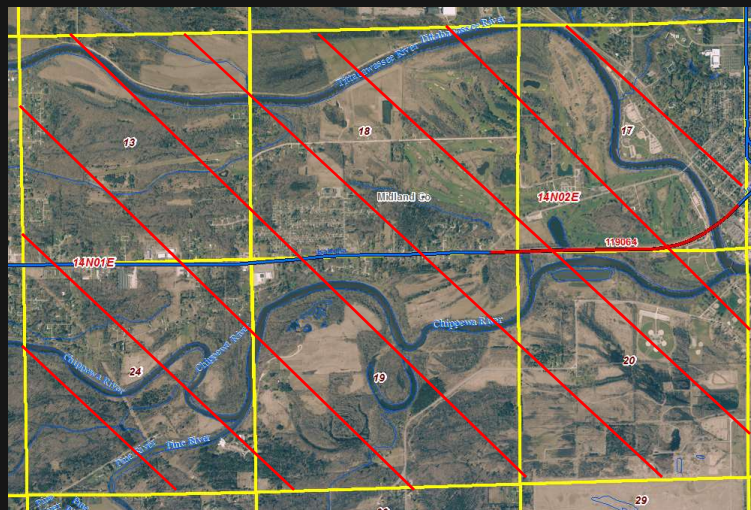
M-52 Roundabout



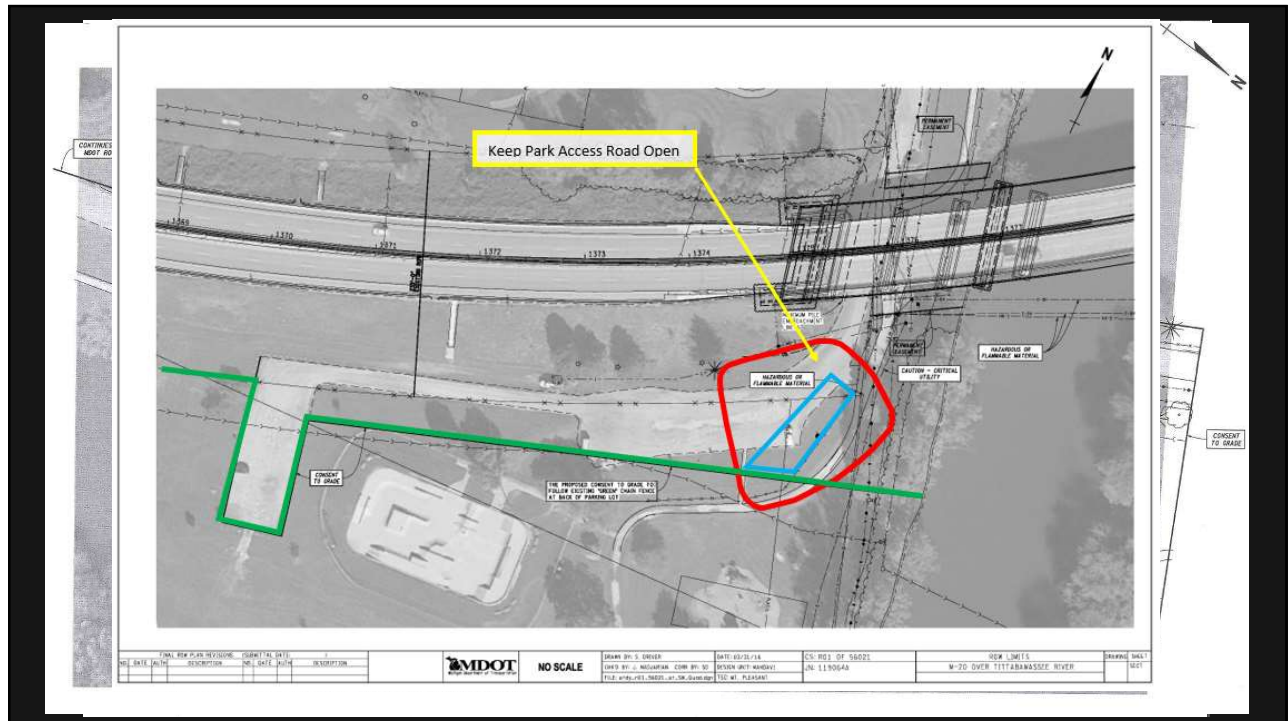
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How to avoid a major catastrophe together?

M-20 Bridge Replacement Project (aka "Center of the Universe")



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