



# AI in the Field: Breaking Barriers and Building the Future of Construction

Dr. Sarah Buchner, Founder & CEO of Trunk Tools

Jennifer Hohman, CTO of Baker Construction

Dean Mouritzen, Project Executive at HITT Contracting

October 2025





# Dr. Sarah Buchner

## Founder & CEO

- Started as a carpenter
- 20 years in the construction industry
- PhD in Construction Tech  
(Data Science/Civil Engineering)
- Stanford MBA





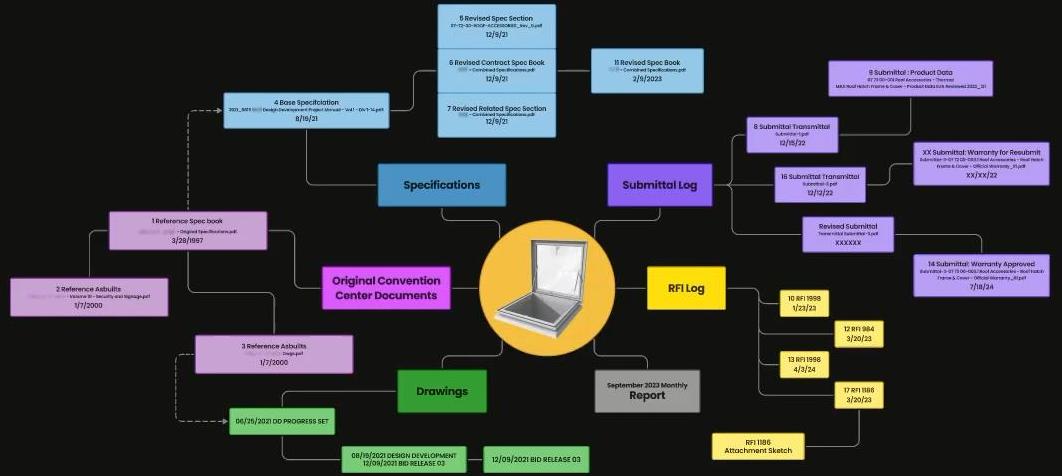
**BAKER**  
CONCRETE CONSTRUCTION  
PEOPLE • HONOR • GRIT

SAFETY  
SCHEDULE

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| Reference | Description                                | Date    | File#                             | Date (D)                      |
|-----------|--|---------|-----------------------------------|-------------------------------|
| 1         | 1001-001-001 - Original                    | 1/20/23 | 1001-001-001-001-001-001          | 20230120-0710-001-001-001-001 |
| 2         | 1001-001-001 - Version B1                  | 1/7/23  | 1001-001-001-001-001-001          | 20230107-0710-001-001-001-001 |
| 3         | 1001-001-001 - Original                    | 1/7/23  | 1001-001-001-001-001-001          | 20230107-0710-001-001-001-001 |
| 4         | 1001-001-001 - Design                      | 1/20/23 | 1001-001-001-001-001-001          | 20230120-0710-001-001-001-001 |
| 5         | 01-01-00-0001-001-001-001-001-001          | 1/20/23 | 01-01-00-0001-001-001-001-001-001 | 20230120-0101-001-001-001-001 |
| 6         | 1001-001-001 - Construction Specifications | 1/20/23 | 1001-001-001-001-001-001          | 20230120-0710-001-001-001-001 |
| 7         | 1001-001-001 - Construction Specifications | 1/20/23 | 1001-001-001-001-001-001          | 20230120-0710-001-001-001-001 |
| 8         | 1001-001-001 - Construction Specifications | 1/20/23 | 1001-001-001-001-001-001          | 20230120-0710-001-001-001-001 |
| 9         | 1001-001-001 - Construction Specifications | 1/20/23 | 1001-001-001-001-001-001          | 20230120-0710-001-001-001-001 |
| 10        | 1001-001-001 - Construction Specifications | 1/20/23 | 1001-001-001-001-001-001          | 20230120-0710-001-001-001-001 |
| 11        | 1001-001-001 - Construction Specifications | 1/20/23 | 1001-001-001-001-001-001          | 20230120-0710-001-001-001-001 |
| 12        | 1001-001-001 - Construction Specifications | 1/20/23 | 1001-001-001-001-001-001          | 20230120-0710-001-001-001-001 |
| 13        | 1001-001-001 - Construction Specifications | 1/20/23 | 1001-001-001-001-001-001          | 20230120-0710-001-001-001-001 |
| 14        | 1001-001-001 - Construction Specifications | 1/20/23 | 1001-001-001-001-001-001          | 20230120-0710-001-001-001-001 |
| 15        | 1001-001-001 - Construction Specifications | 1/20/23 | 1001-001-001-001-001-001          | 20230120-0710-001-001-001-001 |
| 16        | 1001-001-001 - Construction Specifications | 1/20/23 | 1001-001-001-001-001-001          | 20230120-0710-001-001-001-001 |
| 17        | 1001-001-001 - Construction Specifications | 1/20/23 | 1001-001-001-001-001-001          | 20230120-0710-001-001-001-001 |
| 18        | 1001-001-001 - Construction Specifications | 1/20/23 | 1001-001-001-001-001-001          | 20230120-0710-001-001-001-001 |
| 19        | 1001-001-001 - Construction Specifications | 1/20/23 | 1001-001-001-001-001-001          | 20230120-0710-001-001-001-001 |
| 20        | 1001-001-001 - Construction Specifications | 1/20/23 | 1001-001-001-001-001-001          | 20230120-0710-001-001-001-001 |
| 21        | 1001-001-001 - Construction Specifications | 1/20/23 | 1001-001-001-001-001-001          | 20230120-0710-001-001-001-001 |
| 22        | 1001-001-001 - Construction Specifications | 1/20/23 | 1001-001-001-001-001-001          | 20230120-0710-001-001-001-001 |
| 23        | 1001-001-001 - Construction Specifications | 1/20/23 | 1001-001-001-001-001-001          | 20230120-0710-001-001-001-001 |
| 24        | 1001-001-001 - Construction Specifications | 1/20/23 | 1001-001-001-001-001-001          | 20230120-0710-001-001-001-001 |

# Construction Data



## Unstructured

85% PDFs



## Siloed

10+ Systems per Site

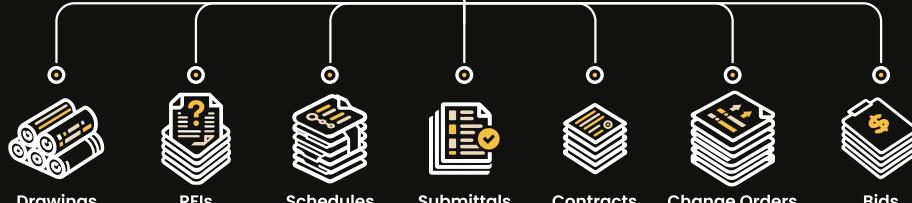


## Changing

Constantly/Daily



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Drawings RFIs Schedules Submittals Contracts Change Orders Bids



# Humanly Impossible

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**120,000** files;  
average **30**  
pages

**3.6 million**  
pages

# What does unstructured mean?



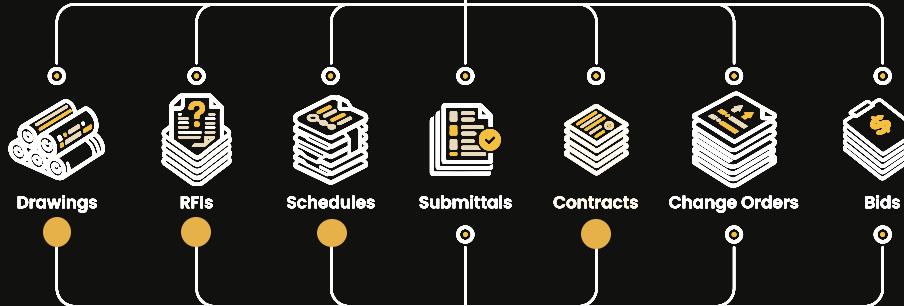
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TrunkSubmittal



TrunkText



TrunkSOP







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text

**\$20K+  
SAVED**

**in rework, finish repairs, inspections, and delays  
by catching this before close-in**



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text

**\$100K+  
SAVED**

**in labor, materials, and delays  
by catching this before drywall installation**



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sop



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submittal

# Submittal Review Classification

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**45.1%** Non-Compliant

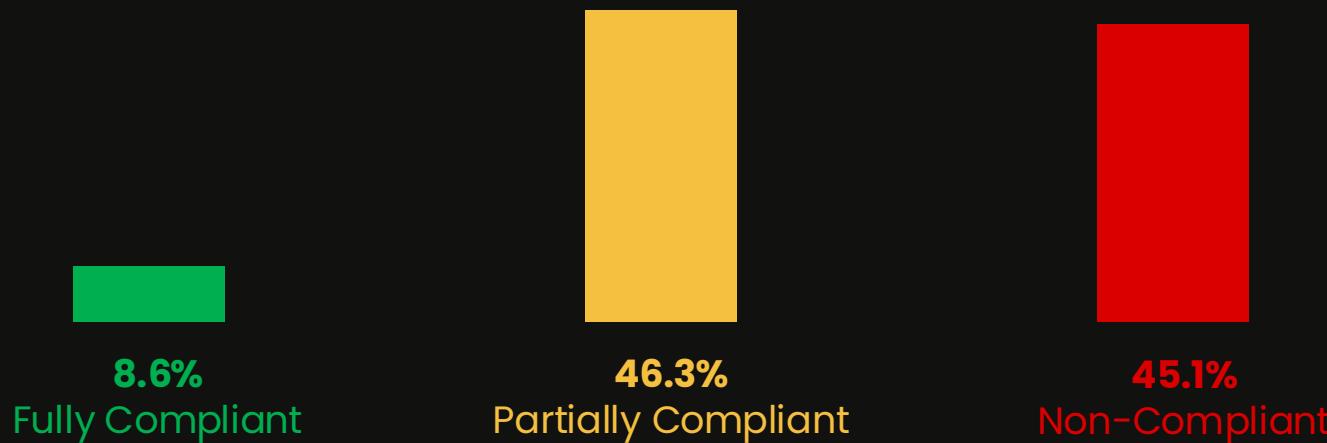
**46.3%** Partially Compliant

**8.6%** Fully Compliant

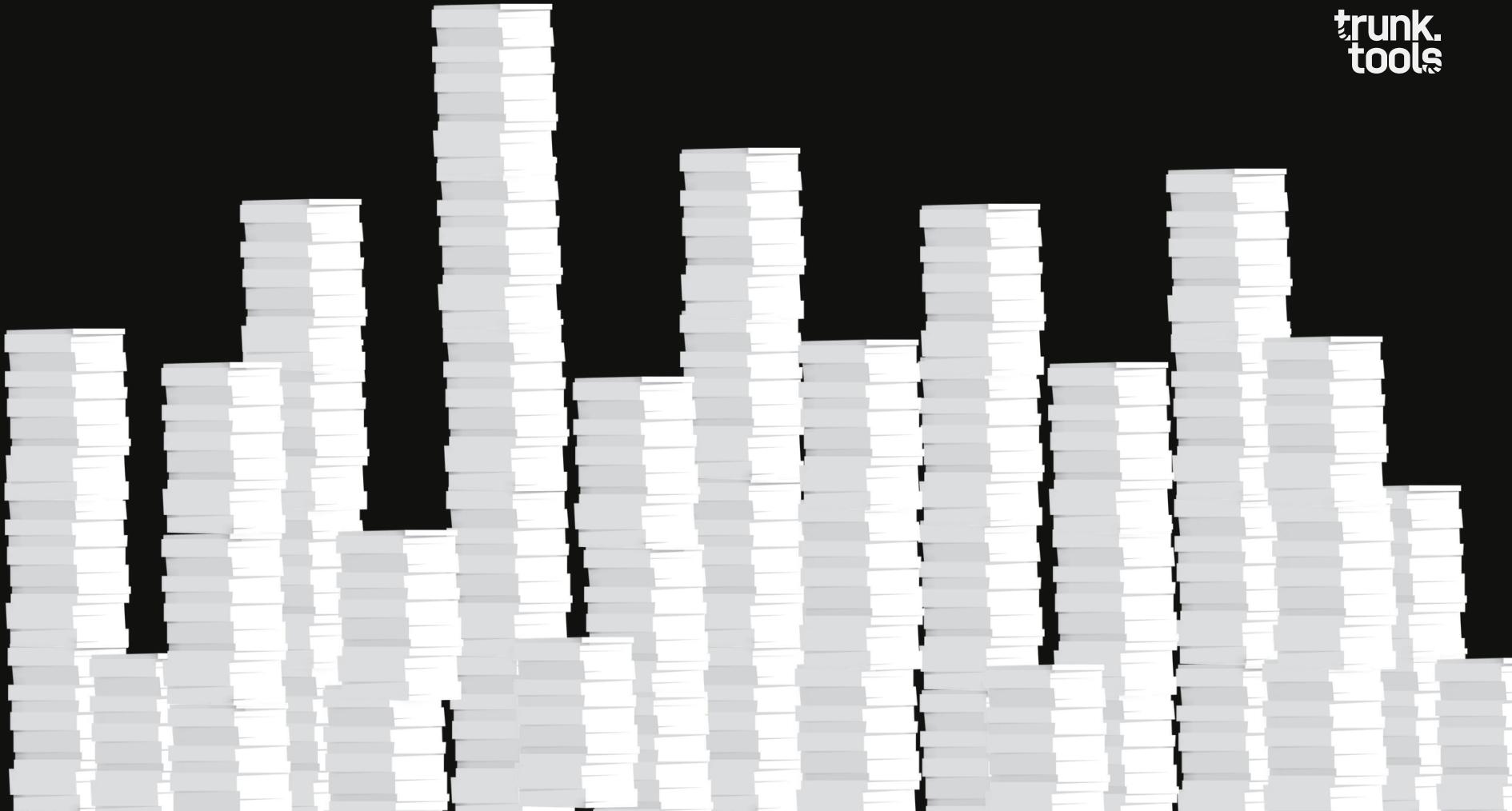
**~1,000** Submittals

# Submittal Review Classification

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RFI =  
REALLY  
FRUSTRATING  
INFORMATION

On a \$100M Job...

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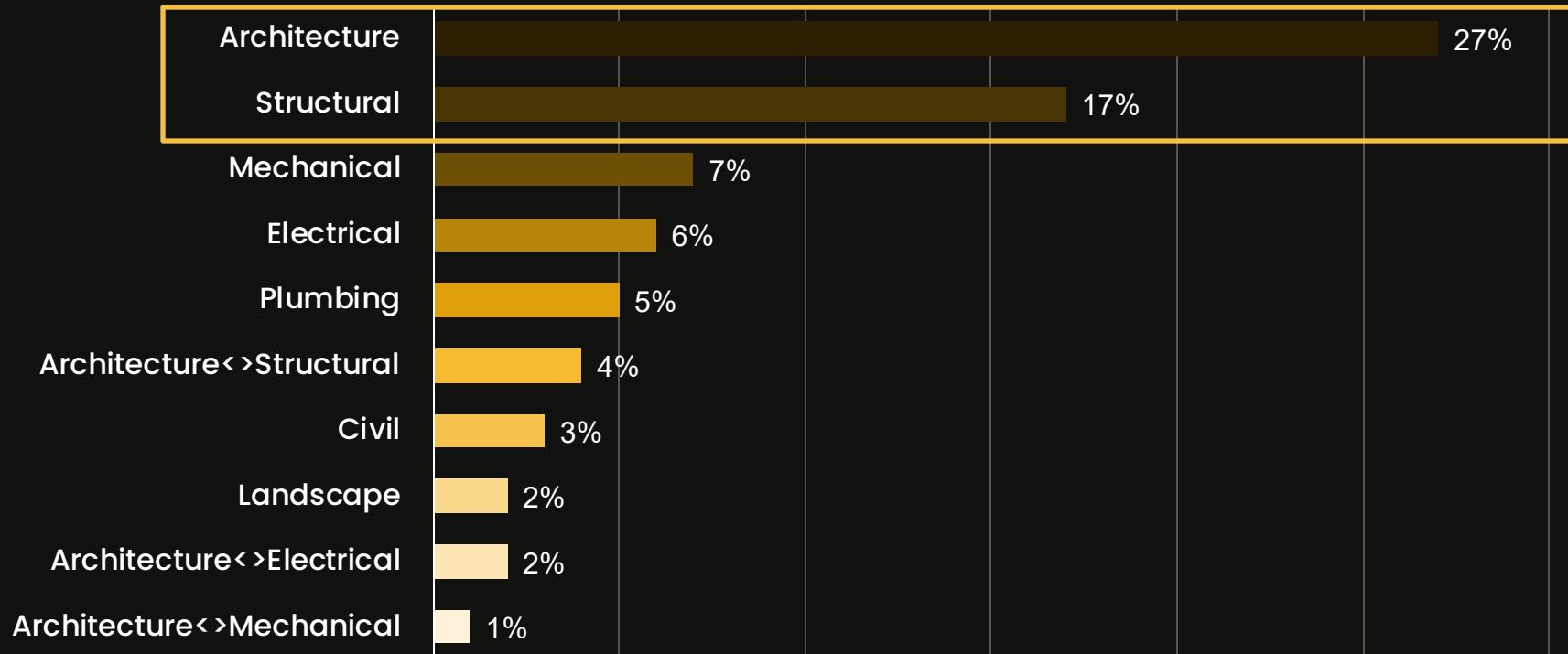
**1,000+ x \$3,000+ = \$3M+**

RFIs

GC Overhead  
per RFI

RFI Overhead  
per Job

# Where do these RFIs come from?



When a Bulletin is updated, so many  
details fall through the cracks...

# 3 Missing Tile Materials



- + \$30K additional cost
- + Overhead
- + Materials
- + Out of sequence
- + Cost to other trades

RFI #414

Project: [REDACTED]

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**Clarification on Stair Nosing for Hydro Tub Steps – Bulletin 18**

TO: [REDACTED]

FROM: [REDACTED]

STATUS: Closed on 06/18/25

DUE DATE: 06/25/2025

COST CODE: [REDACTED]

SCHEDULE IMPACT: [REDACTED]

SPEC SECTION: [REDACTED]

REFERENCE: [REDACTED]

DATE INITIATED: 06/16/2025

LOCATION: Level 1 - Field Level>125. Hydro

PROJECT STAGE: [REDACTED]

SUB JOB: [REDACTED]

COST IMPACT: [REDACTED]

DRAWING NUMBER: A1.01, A9.01,

LINKED DRAWINGS: [A1.01](#)

RECEIVED FROM: [REDACTED]

COPIES TO: [REDACTED]

---

**Question from** [REDACTED] at 03:24 PM on 06/16/2025

Bulletin 18 introduced tilework around the two Hydro Tubs, including six tiled steps. These steps were originally specified with tile treads. However, in early April, a change was made to use the Dal Tile PFT-1 alternate, which does not include tile treads and instead uses a smooth bullnose, which has already been ordered.

During installation preparation, concerns have arisen regarding the suitability of the smooth bullnose for this wet application. Specifically, the smooth finish may not provide adequate slip resistance or edge protection for the stair treads in a wet environment.

**Request for Clarification:**  
Would the design team approve the use of an alternate stair nosing product, such as the Schluter Trep-E, which is designed for wet applications and provides enhanced safety and durability?

**Proposed Solution:**  
Substitute the smooth bullnose with **Schluter Trep-E stair nosing** on the six tiled steps around the Hydro Tubs.

There will be no cost impact for this.



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# 32 Missing Door Tags



- + \$50K additional cost
- + Overhead
- + Materials
- + Missing infra
- + Schedule delay

**RFI #208**Project: [Project Name](#) - [Building Name](#) - [Phase Name](#)

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**Missing Door Numbers**

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TO: [John Doe <john.doe@construction.com>](#)

FROM: [Trunk Tools <info@trunk.tools>](#)

DATE INITIATED: 07/14/2025

LOCATION: [Building A](#)

PROJECT STAGE: Pre-Construction

SUB JOB: [Job 1](#)

COST IMPACT: TBD

DRAWING NUMBER: [Drawing 1](#)

LINKED DRAWINGS: [Drawing 2](#)

RECEIVED FROM: [John Doe <john.doe@construction.com>](#)

COPIES TO: [John Doe <john.doe@construction.com>](#)

This RFI is generated by Trunk Tools, a construction management software. You are viewing the issue in the 'Missing Door Numbers' section of the project. The issue was created on 2025-07-14 by John Doe (john.doe@construction.com). The issue is currently open and assigned to John Doe. The issue is located in Building A, specifically in the Pre-Construction phase. The issue is linked to Job 1 and has a cost impact of TBD. The issue is associated with Drawing 1 and Drawing 2. The issue was received from John Doe (john.doe@construction.com) and copied to John Doe (john.doe@construction.com). The issue is part of a larger project involving multiple buildings and phases. The issue is currently open and assigned to John Doe. The issue is located in Building A, specifically in the Pre-Construction phase. The issue is linked to Job 1 and has a cost impact of TBD. The issue is associated with Drawing 1 and Drawing 2. The issue was received from John Doe (john.doe@construction.com) and copied to John Doe (john.doe@construction.com). The issue is part of a larger project involving multiple buildings and phases.

**Question from [John Doe <john.doe@construction.com>](#) at 02:59 PM on 07/11/2025**Location: [Parking Structure](#)Reference: [Security Plan - Garage - Level 01-07](#)

Issue: There are several doors across the parking structure that have an intercom at the location for access control. These locations do not have a door number to properly show them on the access control system.

Solution: Provide door numbers for the highlighted locations on the attached drawings.



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# Mitigate Hidden Costs by...

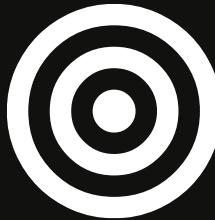
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PRIORITIZING



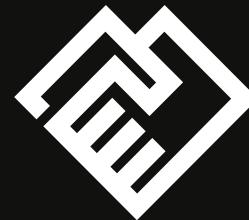
Health & Safety  
Proactively

MAINTAINING



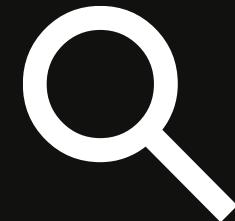
Focus on  
Building Progress

FOSTERING



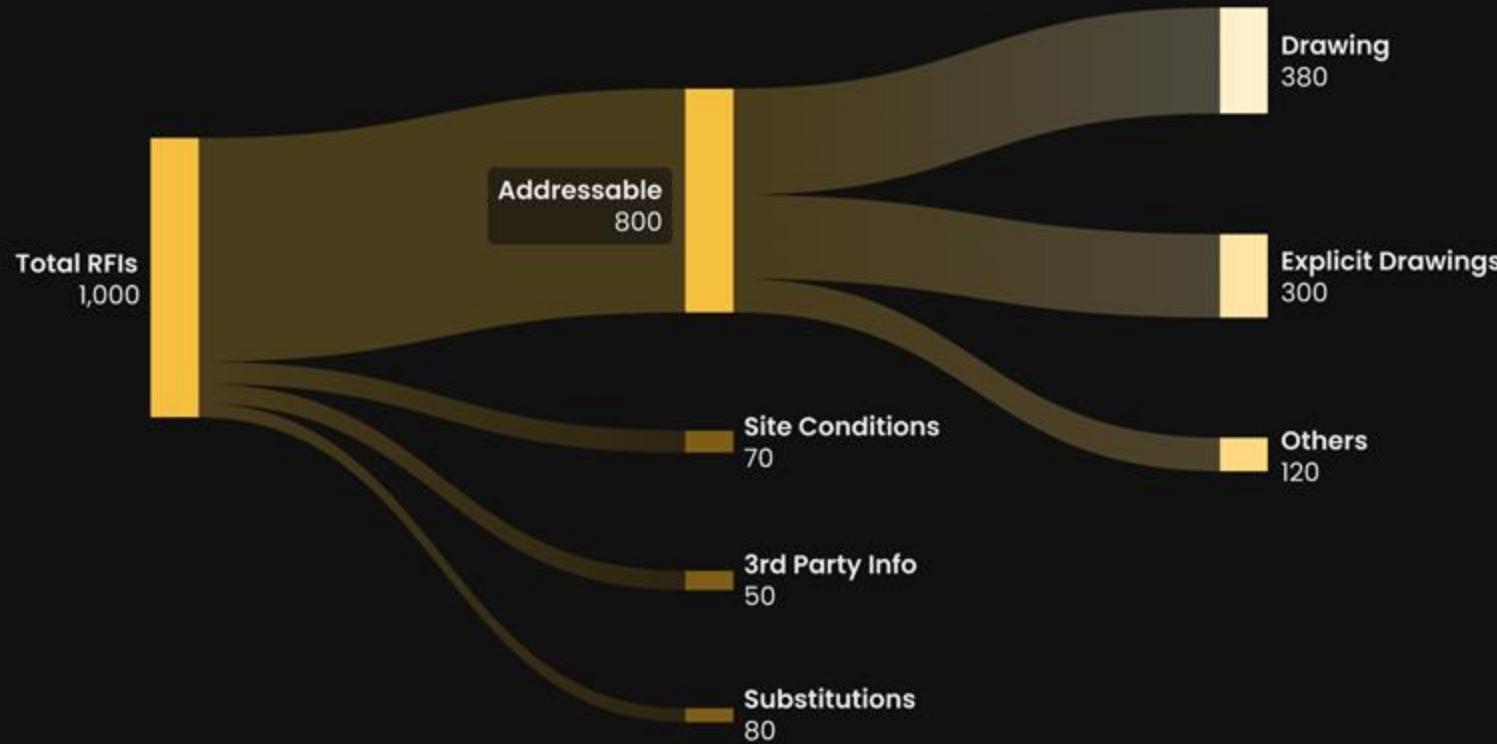
Trust  
Between Trades

FINDING



Discrepancies  
Formerly  
Undetected

# RFI = Really Frustrating Information



ENOUGH

REALLY  
FRUSTRATING  
INFORMATION

AI is not going to take your job.  
People using AI ~~will~~ are!

# THANK YOU

Questions?

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#LetBuildersBuild