WELCOME
Introduction

• The final link in the RFID program is the receiving of the product on the project site.
• The producer has entered the quality control and initial production information for the pieces, through the Idencia program.
• Idencia is the conduit through which data is transmitted from the producer, and NCDOT to HiCAMS.
• The NCDOT, through the Materials and Test’s Unit technicians, inspect the produced pieces to ensure quality assurance. Materials and Tests also utilizes the Idencia software to transmit test results to HiCAMS.
• HiCAMS uses the information transmitted from Idencia to create the Field Inspection Report (FIR). Information transmitted is a combination of the producer’s initial QC process, and the M&T technicians QA inspection.
• The project inspector receives the product based on the RFID serial number. If the RFID is in HiCAMS, the producer’s info and the M&T technicians info has been confirmed and product meets specifications.
• The product is then accepted on the project.
NCDOT Electronic Asset Tracking

Producer 1
Producer 2
Producer 3

Idencia Data Server

HiCAMS

DOT
DOT
DOT
Access the HiCAMS Mobile App

- Log into the Citrix App on your Ipad
- Log into the HiCAMS App
- Go to Functions then Contract Tracking in HiCAMS
- Next go to MRR Data Entry
- Information entered on the RFID tags is accessed by scanning the RFID with a reader app.
HiCams Entry Mobile App
After selecting MRR Mobile Data Entry this screen will load. You can select your contract and report type and make you entry mode Scan and Paste. Now you can minimize the window.
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uGrokit

• A RFID App (Send Grok) will need to be downloaded and installed on the Ipad.
• The app will be used to read and record the number on the RFID tag.
• Once read by the scanner, the serial number is emailed to a default address or copied to the clipboard and then you paste into the HiCAMs Mobile MRR window.
Scanning Process

• After opening HiCAMS and selecting MRR, open the selected Scan app (Send Grok).
• Scan the RFID tags using the uGrokit reader.
• Once the tags are scanned by the reader, click stop. Email will automatically send to the default email address or copy to the Clipboard depending on your configure setting.
• Toggle to the Hicams window.
• Click paste to insert into Mobile MRR alternate ID field.
• Click validate to check the alternate ID against the CBOM and FIR.
• Valid alternate ID numbers will show a green check mark.
Send Grokit Email Option
Send Grokit Email Option

<table>
<thead>
<tr>
<th>Method for Sending Data</th>
</tr>
</thead>
<tbody>
<tr>
<td>HTTP POST</td>
</tr>
<tr>
<td>Email</td>
</tr>
<tr>
<td>Clipboard</td>
</tr>
</tbody>
</table>

**Grokker Configuration**

<table>
<thead>
<tr>
<th>Set region</th>
</tr>
</thead>
</table>
Send Grokit Email Option

After email is entered click on save and then the return arrow (upper left hand corner).
Send Grokit Email Option
Send Grokit Email Option
Send Grokit Email Option
Send Grokit Email Option
Send Grokit Email Option
Select contract, and report type, then select scan and paste as your entry mode.
Clicking paste will add all serial numbers that were copied from your email.
The next step is to click on validate for each serial number, as they are validated they will appear with either a red X or a green check.
After the RFID number is entered, the MRR first checks to ensure the precast piece is on the CBOM.

If the precast piece is on the CBOM, and listed on a FIR, it will be added to the MRR.

If the Alternate ID is valid you will be able to assign a Line Item.
MRR
Send Grokit Clipboard Option
Send Grokit Clipboard Option
Send Grokit Clipboard Option

After choosing clipboard option, click on save at the bottom of the screen and then the back arrow (upper left corner).

discard save
Click on start to begin scanning tags, click stop once all tags have been scanned. This message should appear after clicking stop.
Choose scan and paste as the entry mode.
Click on paste and the serial numbers that were scanned with the send grok app will appear below in the Scanned Alternate ID field.
The next step is to click on validate for each serial number, as they are validated they will appear with either a red X or a green check.
After the RFID number is entered, the MRR first checks to ensure the precast piece is on the CBOM. If the precast piece is on the CBOM, and listed on a FIR, it will be added to the MRR. If the Alternate ID is valid you will be able to assign a Line Item.
Valid pieces will have a green check mark along with an item status of Validated and the associated FIR ID.
These items have to be dealt with.

Once all pieces that were scanned have been validated the MRR can be saved by clicking the save button. The red X's will move to the reconcile screen to be reconciled. (by the assistant resident in many offices).
MRR Reconciliation

- If a piece is marked with an item status other than Validated on the MRR, it is sent to the Reconcile screen for further action.
- The reconcile screen is located just below the MRR screen on the Contract Tracking tab.
- The screen allows further investigation to ensure the piece does or does not actually belong on the project.
- In conjunction with the Reconcile screen, NCDOT Precast Lookup site is also used to verify the status of the precast item.
- The address for the Precast Lookup site is https://apps.ncdot.gov/vendor/approvedproducts/PrecastLookup.aspx
- After attempting to reconcile, and researching on the Precast Lookup site you can contact your Materials & Tests representative for further assistance.
- The items on the Reconcile window remain there until resolved.
MRR Reconciliation

Pull up the Reconcile Screen
# Reconcile MRR Screen

## Transportation

![Reconcile MRR Screen](image-url)

**Contrac**: C202653  **Contractor**: FLATIRON CONSTRUCTORS INC  
**Description (nickname)**: US 70 FROM SR 2305 TO EAST OF SR 2310  
**Status**: Active

<table>
<thead>
<tr>
<th>Row</th>
<th>Alternate ID</th>
<th>Item Status</th>
<th>Qty</th>
<th>Line Item</th>
<th>FID</th>
<th>Material Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1C01500000000000000000201220</td>
<td>FIR Not Found</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>1C01500000000000000000232</td>
<td>FIR Alternate ID Status is Rejected</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>1C015000000000000000005305</td>
<td>FIR Alternate ID Quantity is Not Available</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>1C015000000000000000006826</td>
<td>Report Status is Not Authorized</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Validate**
### Reconcile MRR Screen

**Contract:** C202653  
**Contractor:** FLATIRON CONSTRUCTORS INC  
**Description (nickname):** US 70 FROM SR 2308 TO EAST OF SR 2310  
**Status:** Active

<table>
<thead>
<tr>
<th>Row</th>
<th>Alternate ID</th>
<th>Item Status</th>
<th>Qty</th>
<th>Line Item</th>
<th>FIR ID</th>
<th>Material Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1CD15000000000000000000028120</td>
<td>FIR Not Found</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>1CD15000000000000000000052322</td>
<td>FIR Alternate ID Status is Rejected</td>
<td>1</td>
<td></td>
<td>66203</td>
<td>Precast Concrete Drains Precast</td>
</tr>
<tr>
<td>3</td>
<td>1CD1500000000000000000005905</td>
<td>FIR Alternate ID Quantity is Not Available</td>
<td>1</td>
<td></td>
<td>66203</td>
<td>Precast Concrete Drains Precast</td>
</tr>
<tr>
<td>4</td>
<td>1CD1500000000000000000006828</td>
<td>Report Status is Not Authorized</td>
<td>1</td>
<td></td>
<td>68405</td>
<td>Precast Concrete Manh Precast</td>
</tr>
</tbody>
</table>

**Validate**
NCDOT Precast Lookup

Presearch Concrete ID/Barcode: [Search] [Reset]
Multiple ID's returned. Our ID is listed as "in use"
Multiple ID’s returned. Our ID is listed as “Rejected”
NCDOT Precast Lookup Pieces Received
Questions
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