

# Field Inspection Reports:

## Review Precast Concrete

Objective

Access to Precast Concrete

Using the windows in the Precast Concrete sub-module

### **Review Precast Concrete**

F <u>u</u> nctions	<u>I</u> nquiries	<u>R</u> eference:	s <u>A</u> dmin	<u>T</u> ools	<u>W</u> indow	<u>H</u> elp
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**Step 1:** Choose **Field Inspection Reports** from the **Functions** menu.

**Figure 1** - Access to Review Field Inspection Reports

**Step 2:** To access a NEW Precast Concrete Report, click the *Report Name* field and select *Precast Concrete*.

🐡 Review Fiel	d Inspection Repo	rts				_
Contrac Report Nam	<u></u>		Material Type: (All) Inspected By:			<u>R</u> etrieve
Report II Report Statu	D:		spection Date: 00/00 pection Result: (All)	0/0000		Reset
Report Name	Report ID Contract	Material Type	Inspector	Inspection Date Sectio	Inspection n Result	Report Status
Concrete Pipe	2	Pipe Culvert, Concrete	Dean, Leigh Ann	04/02/2001 2&3	Meets Specs	In Process 🔹
Corrugated Metal	1 C104906	Pipe Culvert, Metal	Frederick, Samuel	.04/09/2001 7&9	Meets Specs	In Process 📃
Guardrail	3 C105136		Home, Kenneth	04/02/2001 2&3	Meets Specs	In Process



Figure 2 - Access to a NEW Precast Concrete Report

- 🐲 Review Precast Concrete (New) Report Name: Precast Concrete Report ID: Report Status: In Process • General Results Alt IDs Report History Test Category: Acceptance Sample From: Plant --Work Order: • Contract: County: Contractor 2 Station: Location: Search by Plant ID: -Section: Producer: ] <u>m</u> Inspection Results Inspector: 2 Inspection Result: • Inspection Date: 00/00/0000 Notice of Rejection: 2 Comment:
- **Step 3:** Click the **New** button and the General tab for Precast Concrete is displayed:

Figure 3 - New Review Precast Concrete Window

**Step 4:** To access an EXISTING Precast Concrete Report, follow Step 1 above and double-click the desired report from the list displayed or click the **Details** button, after selecting the desired report:

Precast Concrete         2 C105538           Precast Concrete         5 C105538           Precast Concrete         222 C105538           Precast Concrete         229 ( C105538           Precast Concrete         229 ( C105538	terial Type Inspecto Hailey, Blaint Hailey, Blaint Hailey, Blaint Hailey, Blaint	ne M 06/08/2001 ne M 06/08/2001	Section 5 Meet	Inspection Result ts Specs Aut	Report Status
Precast Concrete         2 C105538           Precast Concrete         5 C105538           Precast Concrete         222 C105538           Precast Concrete         229 ( C105538           Precast Concrete         229 ( C105538	Hailey, Blaine Hailey, Blaine Hailey, Blaine	ne M 06/08/2001 ne M 06/08/2001			
Precast Concrete         222         C105638           Precast Concrete         291         C105638           Precast Concrete         226         C105638	Hailey, Blaine		5 Meet		thorized
Precast Concrete 291 C105538 Precast Concrete 226 C105538		- M 06/29/2001		ts Specs Aut	thorized
recast Concrete 226 C105538		18 141 00/20/2001	5 Meet	ts Specs Aut	thorized
	Hailey, Blaine	ne M 07/10/2001	5 Meet	ts Specs Aut	thorized
recast Concrete 295 C105538	Hailey, Blaine	ne M 07/10/2001	5 Meet	ts Specs Aut	thorized
	Hailey, Blaine	ne M 07/19/2001	5 Meet	ts Specs Aut	thorized



Persults     Alt IDs     Report     History       Sample From:     Plant     Test Category: Acceptance       Contract:     C105538     Work Order: 8.1340801     County: Wilson       Contract:     S. T. WOOTEN CORPORATION     Station:     0 + 0     Location: NC 42       Search by Plant ID:     Section:     5       Producer:     Contract Concrete Co., Inc., Carolina Precast, Inc Dunn - PC12       Inspection Results     Inspection Result: Meets Specs       Inspection Date:     07/10/2001     Notice of Rejection:	Report Name: Precast	Concrete	Report ID	: 226	Report Status: Authorized
Contract:     C105538     Work Order: 8.1340801     County: Wilson       Contractor:     S. T. WOOTEN CORPORATION       Station:     0 + 0     Location:: NC 42       Search by Plant ID:     Section: 5       Producer:     Carolina Precast Concrete Co., Inc., Carolina Precast, Inc Dunn - PC12       Inspection Result:     Inspection Result: Meets Specs       Inspection Date:     07/10/2001	eral Results Alt IDs	Report History			
Contractor: S. T. WOOTEN CORPORATION         Station:       0 + 0         Location: NC 42         Search by Plant ID:       Section: 5         Producer:       Carolina Precast Concrete Co., Inc., Carolina Precast, Inc Dunn - PC12         Inspection Result:       Inspection Result: Meets Specs         Inspection Date:       07/10/2001	Sample From:	Plant	т	est Category: Acceptance	
Station:     0 + 0     Location: NC 42       Search by Plant ID:     Section: 5       Produce:     Carolina Precast Concrete Co., Inc., Carolina Precast, Inc Dunn - PC12       Inspection Results     Inspection Result: Meets Specs       Inspection Date:     07/10/2001     Notice of Rejection:	Contract:	C105538	Work Order: 8.1340801	County: Wilson	
Search by Plant ID: Section: 5 Producer: Carolina Precast Concrete Co., Inc., Carolina Precast, Inc Dunn - PC12 Inspection Results Inspector: Hailey, Blaine M Inspection Result: Meets Specs Inspection Date: 07/10/2001 Notice of Rejection: 5	Contractor:	S. T. WOOTEN CO	RPORATION		
Producer: Carolina Precast Concrete Co., Inc., Carolina Precast, Inc Dunn - PC12 Inspection Results Inspection Result: Meets Specs Inspection Date: 07/10/2001 Notice of Rejection: 55	Station:	0 + 0		Location: NC 42	
Inspection Results Inspector Pailey, Blaine M Inspection Result: Meets Specs Inspection Date: 07/10/2001 Notice of Rejection:	Search by Plant ID:			Section: 5	
Inspection Result: Meets Specs Inspection Date: 07/10/2001 Notice of Rejection:	Producer:	Carolina Precast Co	increte Co., Inc., Carolina Prec	ast, Inc Dunn - PC12	
Inspection Date: 07/10/2001 Notice of Rejection:	Inspection Results				
	Inspector:	Hailey, Blaine M		Inspection Result	: Meets Specs
Comment: Metric Project	Inspection Date:	07/10/2001		Notice of Rejection	: <del>32</del>
	Comment:	Metric Project			

### **Step 5:** The **Review Precast Concrete** report details are displayed as <u>shown in the example below:</u>

#### Figure 5 - Review Precast Concrete (General Tab Window)

**Note:** To further aid in the retrieval of an EXISTING report, there are filtering functions available in HiCAMS. These filter functions are especially helpful when choosing from a very large listing of reports. See Field Inspection Reports: Overview - Retrieval Tips for all Field Inspection Reports for details using these functions.

#### **Overview - Review Precast Concrete**

The acceptance of Precast Concrete units are based on the following:

- tests of materials
- compression tests on concrete cylinders
- inspection of the finished units

The inspector will have the authority to reject any or all units not manufactured in accordance with the above specifications. Any unit found to be defective in any manner may be rejected and replaced by an acceptable unit or repaired in a manner approved by the Engineer.

#### **General Tab - Review Precast Concrete**

- **Step 1:** The **General Tab** allows entry of the following information:
  - *Sample* is from The Sample From category for Precast Concrete reports is required and will default to "Plant" on the window. (Required field)
  - *Test Category* The Testing Category for all Precast Concrete reports is required and defaults to "Acceptance" on the window. (Required field)
  - the *Contract* number

The *minimum* requirements to save a *Precast Concrete* record are the following fields. (This message is displayed when attempting to save the record without entering these fields.)



Figure 6 - Advisory Message, Required Information

**Tip:** If the contract number is changed after the original report is saved, the following message will appear:

Review F	Precast Concrete
٢	Changing the Contract will result in the loss of all Materials and Alternate IDs currently associated with this report. Do you want to proceed?
	OK Cancel

Figure 7 - Advisory Message

**Note:** When the contract number is entered, the Station From and Location fields are required.

Entry/selection of a Contract number automatically enters the Work Order, the County, and Contractor that is associated with the Contract number. See example below:



Figure 8 - Contract Number, Default Fields

**Note:** The Notice of Rejection field is activated when any rejected amounts are recorded on the Results Tab Window and the record is saved.

When the **Notice of Rejection** button is clicked, the following window appears for the material:

The Review Notice of Re	ejection (New)		
Filter			<u>R</u> etrieve
Report:	Precast Concrete	Report ID: 2	R <u>e</u> set
			Select
General Materials Rep	ort		
Inspection Result:	Meets Specs	Inspection Date: 05/25/2001	
Inspector:	Pace, Randy K	County: Lee	
Producer:	CCC Concrete Group, Inc., CCC Concrete Group, Inc Shelby	- PC8	
Purchase Order:		Bill Of Lading:	
Contract:	C105026	Work Order: 8.1540701	
Contractor:	W. C. ENGLISH, INC.		
Description:	GRADING, DRAINAGE, PAVING AND STRUCTURE.		
Station:	111 + 22 Location: NC-Hwy 2121		
Source:			2
Reason:			2
Comment:			ą
	1		_

Figure 9 - Notice of Rejection Window for Precast Concrete

The following is an example of a report with the "General" information completed:

🐡 Review Precast Conc	rete (New)				
Report Name: Precast	Concrete	Report ID:		Report Status: In Process	<b>•</b>
General Results Alt IDs	Report History				
Sample From:	Plant -	] Test (	Category: Acceptance		
		/ork Order: 8.1540701	County: Lee		
	W. C. ENGLISH, INC.				
Station:	111 + 22	1	Location: NC·Hwy 2121		9
Search by Plant ID:	PC8		Section: 6&8		
	CCC Concrete Group,	Inc., CCC Concrete Group, Ir	nc Shelby - PC8	in the second se	
Inspection Results					
Inspector: Inspection Date:	Pace, Randy K	<u>\$</u>	Inspection Result:		
			Notice of Rejection.	<u>%</u>	
Comment:	ILEST COMMENT			2	

Figure 10 - Precast Concrete General Tab Window

#### **Results Tab - Review Precast Concrete**

The **Results Tab** allows <u>multiple</u> Material Types per Report with one or more associated Materials per Material Type.

The materials listed in this window will default to the selected Material if only one material exists and the Contract Number has been entered. The Results tab contains all test results for the individual Materials.

- **Step 1:** To insert test results into this **Results** tab window, click the **Insert** button and enter the result data.
- **Step 2:** To delete a result row, select the appropriate row, and click the **Erase** button on the appropriate row to delete:

🐲 HiCAMS - [testconb]							
<u>File Edit Functions Inquiri</u>	ies <u>R</u> eferences <u>A</u> dmin <u>T</u> ools <u>W</u>	indow <u>H</u> elp					
J 🤜 🖬 😂 🖞 🖄 '	?№ & № /2 №						
🐡 Review Precast Concrete (New)							
Report Name: Precast 0	Report Name: Precast Concrete Report ID: Report Statu				t Status: In Pr	ocess	
General Results Alt IDs	Report History						
Material Type	Material	Date Made	Date Tested	Age At Test	Accepted	Rejected	Inspection Result
	Hatoria	00/00/0000		1001	.000	.000	hisposicititicount
		00/00/0000	00/00/0000	Í	.000	.000	<b></b>
1							
Concrete Mix:	Compres	sive Strength	1	Availa	ble Accepted:	.000	
Air Content %:	Cyline	ler 1:					
Slump:	.00 Cylind	ler 2:					
Siump.	Ave	rage:					

Figure 11 - Precast Concrete Results Tab Window

- **Step 3:** To select the **Material Type**, click the *Material Type* field and all applicable selections are displayed.
  - **Note:** The items displayed will vary depending upon the report. If no Contract number has been entered, all the material types indicated as FIR Precast (or whatever report you are in) on the MSG will appear here. If a contract has been entered, the Material and Material Type must be associated to the contract via the CBOM window.
- **Step 4:** Click the desired Material from the drop-down menu choices. The valid Material Types for Precast Concrete include the following:
  - Precast Concrete Reinforced Box Culvert (Both)
  - Precast Concrete Units (English, Metric, Both)
  - Precast/Prestressed Concrete Box Culvert, Crown Span 3-Sided (Both)
- **Step 5:** To select the **Material**, click the *Material* field and all applicable selections are displayed. Click the desired Material from the list of all materials associated to the selected material type.

**Step 6:** To select the **Date Made**, click the field and use the **Calendar** tool that is automatically displayed. Double-click the date to select.

Step 7: To set the Date Tested, double-click the field and use the Calendar tool. Double-click the test date. The Date Tested functions are selected the same as in Date Made.

🐡 Calendar 🛛 🕐 🗙								
<<	<	I	Today > >>					
April, 2001								
S	м	Т	w	Т	F	S		
1	2	3		-5	-	- 7		
8	9	10	11	12	13	14		
	16							
	23	24	25	26	27	28		
29	30							

Figure 12 - Calendar Tool

- **Note:** This date field defaults to today's date but can be changed if the actual rating calculations were performed in the field on a previous date, and are only now being entered into HiCAMS.
- **Step 8:** Age At Test (in Days) this data is the calculated difference between the *Date Made* and *Date Tested* input.
- **Step 9:** To enter **Accept** and **Rejected** quantities, select each field and enter the appropriate quantity.
- **Step 10:** To select an **Inspection Result**, the drop-down menu and choose an appropriate result from the list.

#### **Concrete Mix Design Selection Window**

**Step 11:** To select the **Concrete Mix**, click the icon to the right of the field and choose the appropriate Concrete Mix listed:

**Note:** The Date Tested value must be equal to or greater than the date made.

🐡 Select a Concrete I	<del>d</del> ix Design				? ×
Mix Design I	ID:		S	tatus: 🗾 💌	<u>R</u> etrieve
Producer's Mix I	ID:		Metric/En	glish: Metric 💌	
Class of Concre	te:			<b>_</b>	R <u>e</u> set
Air-Ent. ar Vibration State					
Pozzolan Typ	be:			-	
Concrete Facili	ity:				]
	Des des sels	Cl (	[ <b>1 4</b> - <b>1</b> - <b>1</b>		
Mix Design ID	Producer's Mix ID	Class of Concrete	Metric/ English	Concrete	Facility
		. 1			
	0	K		<u>C</u> ancel	

Figure 13 - Concrete Mix Design selection window

**Step 12:** To select from all Concrete Mix Design IDs currently in the system, first choose the *Status (Active* or *Expired)*, then click the **Retrieve** button:

🐡 Select a Concrete	Mix Design			?×			
Mix Design	ID:		S	Status: Active 💌 <u>R</u> etrieve			
Producer's Mix ID: Metric/English:							
Class of Concre	ete:						
Air-Ent. a Vibration Stal							
Pozzolan Ty							
Concrete Facility:							
Mix Design ID	Producer's Mix ID	Class of Concrete	Metric/ English	Concrete Facility			
40DYFG8390AE	G8390A	Drilled Shaft	English	Concrete Supply Co Concrete Supply Co. #18 - Croft Plant Charlotte NC			
402VFG8730AE	G8730A	Class AA	English	Concrete Supply Co Concrete Supply Co. #18 - Croft Plant Charlotte NC			
308RVOE7284AE	E7284A	Class AA, Slip-form Barrier Rail	English	Concrete Supply Co Concrete Supply - Nations Ford Rd Charlotte NC			
308MVFE8690AE	E8690A	Class B, Curb & Gutter Machine	English	Concrete Supply Co Concrete Supply - Nations Ford Rd Charlotte NC			
361V0A7310AE	A7310A	Class A	English	Concrete Supply Co Concrete Supply Co. #11 - North Plant Charlotte NC			
361VFA8660AF	486604	Class &	English	Concrete Supplu Co Concrete Supplu Co 🗾 🛛			
	<u>0</u> K	<u><u>C</u>ar</u>	ncel	<u>N</u> ew			

Figure 14 - Concrete Mix Design, Active Status List

The Status (Active or Expired) will retrieve mix designs accordingly. The other Retrieve criteria in this window can also be used for selection with any one or all of the following fields:

- Mix Design ID
- Producer's Mix ID
- Metric/English
- Class of Concrete
- Air-Entrained And Vibration Status
- Pozzolan Type
- Concrete Facility

The Concrete Mix Design ID number is selected from a valid list of Concrete Mix Designs. The list is limited to either Metric or English Mix Designs based on the material's unit of measure.

The Facility Type of the chosen Concrete Mix Design *must correspond* to the Facility of the chosen Producer Supplier.

In the event that the Facility Type and the Producer Supplier's Facility do not correspond while attempting to select a *Concrete Mix Design*, the following message will be displayed:



Figure 15 - Advisory Message

**Tip:** If this message appears, select the corresponding Facility Type and the Producer Supplier's Facility and click the Retrieve button from within the Concrete Mix Design window.

- **Step 13:** To retrieve by *Mix Design ID* and/or *Producer's Mix ID*, enter the ID data and click the **Retrieve** button. This will produce a list based upon the ID number.
  - **Tip:** For all of the retrieve selections, the Reset button will clear any choices that have been made. This allows re-entry of all data.
- **Step 14:** To retrieve by *Class of Concrete*, click the drop-down menu, select from the list, and then click the **Retrieve** button. This will produce a list based upon the class:

Class of Concrete:		•
Air-Ent. and	1 - CLASS A	-
Vibration Status:	2 - CLASS AA	
Pozzolan Type:	R - CLASS AA, SLIP-FORM BARRIER RAIL	
	3 - CLASS AAA	
Concrete Facility:	B - CLASS B	
	M - CLASS B, CURB & GUTTER MACHINE	
Pro		-

Figure 16 - Class of Concrete Drop-Down Menu

**Step 15:** To retrieve by *Air-Ent. and Vibration Status,* click the dropdown menu, select from the list, and then click the **Retrieve** button. This will produce a list based upon this status:





**Step 16:** To retrieve by *Pozzolan Type*, click the drop-down menu, select from the list, and then click the **Retrieve** button. This will produce a list based upon Type of Pozzolan:

Pozzolan Typ	e: 🔤
Concrete Facilit	ty: 0 - NO POZZOLAN F - CLASS F FLY ASH
	C - CLASS C FLY ASH
ix Design ID	G - GROUND GRANULATED BLAST FURNACE SLAG
FG8390AE I	G82

Figure 18 - Pozzolan Type Drop-Down Menu

**Step 17:** To retrieve by *Concrete Facility,* click the drop-down menu, select from the list, click the **OK** button or double-click the facility to select, and then click the **Retrieve** button. This will produce a list based upon the Facility choice:

Producer/Supplier	Vendor T	ype Facility	Facility ID	Facility Type	City	State
<none></none>		<none></none>				
American Concrete Product	Both	American Concrete Pro	283	Ready-Mix Concre	Little River	SC
Americast Precast Company	Both	Americast Precast Co	10	Precast Concrete	Harrisonburg	VA
APAC - Carolina	Both	Barrus Ready Mix - Gree	101	Ready-Mix Concre	Greenville	NC
		Barrus Ready Mix Conc	126	Ready-Mix Concre	Kinston	NC
		Barrus Ready Mix Conc	146	Ready-Mix Concre	Morehead City	NC
		Barrus Ready Mix Conc	270	Ready-Mix Concre	Castle Hayne	NC
		Barrus Ready Mixed Co	115	Ready-Mix Concre	Jacksonville	NC
		Godwin Concrete Co	355	Ready-Mix Concre	Wilmington	NC
		Godwin Concrete Co	15	Ready-Mix Concre	Belville	NC
		Godwin Concrete Co	334	Ready-Mix Concre	Belville	NC
		Godwin Concrete Co	192	Ready-Mix Concre	Scotts Hill	NC
		Godwin Concrete Co 1	201	Ready-Mix Concre	Southport	NC

#### Figure 19 - Select a Facility window (Concrete Facilities)

**Note:** Individual criteria choices alone or a combination of choices will produce lists based upon that direct input. See populated example below:

🐡 Select a Concrete Mix	Design		?×
Mix Design ID:	41EVOUMIX49E	Status: Active 💌	<u>R</u> etrieve
Producer's Mix ID:		Metric/English: Metric 🔻	
Class of Concrete:	2 - CLASS AA	<b>_</b>	R <u>e</u> set
Air-Ent. and Vibration Status:	N - NON-VIBRATED AND A	AIR ENTRAINED	
Pozzolan Type:	F - CLASS F FLY ASH	<b>_</b>	
Concrete Facility:	APAC - Carolina - Barrus Re	ady Mix - Greenville Greenville NC	]

## Figure 20 - Populated Concrete Mix Design selection window example

**Note:** In the event that any retrieval criteria is not applicable, there may be an advisory message as shown below. If this message appears, click OK, enter the proper retrieval criteria and click the Retrieve button.



Figure 21 - Advisory Message for Concrete Mix Design

**Note:** After performing facility retrieval, the result is displayed in the Concrete Facility entry field. See example screen below.



#### Figure 22 - Concrete Facility Field

**Step 18:** In the **Results Tab** window (lower portion), continue the process by entering data for the *Air Content* % field. To enter the **Air Content** percentage, select the field and enter the numeric percentage value. Continue the process with the remaining fields.

Concrete Mix:	Compressive Strength Cylinder 1: Cylinder 2: Average:
---------------	--

Figure 23 - Results Tab Window, Lower Portion

The **Compression Strength** fields for the cylinders must be completed before the inspection result can be set to either "Meets Specs" or "Does Not Meet Specs". This data may not be known when the record is first entered so these fields are not required to save the record.

The **Average Compression Strength** P.S.I. test will automatically be calculated when the results for Cylinder 1 and Cylinder 2 are entered.

A **Notice of Rejection** is not required for this report. Any material not passing specifications will not receive the official NCDOT stamp and therefore should never be sent to or used on a Contract.

- Step 19: Save the record, click the Save button.
  - **Tip:** The saved record captures all data that has been entered and the fields in all tab windows become uneditable. The fields become editable for data entry after the Report's status is changed and the record is re-saved by an authorized user.

Saving a record can be performed at any point. If the record save is interrupted at any point, it is usually as a result of incomplete data entry. There are various messages that the system may display based upon what is required to be entered in order to save the record. The following is one such example message.



Figure 24 - Typical Advisory Message, Required Information

- **Step 20:** To rectify the saving error, click the **OK** button, enter the required data mentioned in the message, and click the **Save** button.
  - **Tip:** Another data entry requirement for saving a Precast Concrete record.... Concrete Design Mix is required and must be entered. The system notifies the user that this is required. See the message below.

Review	Precast Concrete 🛛 🔀
$\triangle$	Please provide the following required information: - Concrete Mix
	<u>(ССК)</u>

Figure 25 - Required Information Message

#### Alt IDs Tab - Review Precast Concrete

One or more Alternate IDs may be entered for the material being tested. When inserting a new data row, the Alternate ID defaults to the Plant/Facility ID and the Date Made with the user having the ability to edit this data.

**Step 1:** To enter an **Alternate ID** row on this window, click the **Insert** button. A data entry row is added as shown below:

🖘 HiCAMS - [testconb]		
<u>File Edit</u> Functions Inquiries <u>R</u> eferences <u>A</u> dr	nin <u>T</u> ools <u>W</u> indow <u>H</u> elp	
. ସ 🖬 🖨 🖷 ≫ ? № 🏯 🕅 /	2 Mi	
🐡 Review Precast Concrete (New)		
Report Name: Precast Concrete	Report ID:	Report Status: In Process
General Results Alt IDs Report History		
Alternate IDs for Material:		
Precast Concrete Units		
Alternate Type Alterna	ate Id Status	– Define Range
Lot PC13-7/2/01-	Available	Count: 2
		Create Range
		Clear <u>R</u> ange

Figure 26 - Precast Concrete Alt IDs Tab Window

- **Step 2:** To delete an **Alternate ID** row, select the appropriate row; click the **Erase** button to delete.
- **Step 3:** To select an **Alternate ID Type**, click the drop-down menu or select from the listed choices.

The type will default to "Lot" when first inserting an Alternate ID in this window. An error message could also appear in the case of entering duplicate Alternate Ids:



Figure 27 - Error Message for duplicate Alternate IDs

- **Step 4:** To enter an **Alternate ID** number, select the field and enter an appropriate ID number.
- **Step 5:** To change the **Status** from the default of Available, select a listed status as shown in the example below:



Figure 28 - Precast Concrete Status Drop-Down Menu

**Step 6:** Under the **Define Range** area, the **Create** and **Clear** buttons are available to define or delete a Range for *Alternate Types/Alternate IDs.* 

General	Results Alt IDs Rep	port History		
	Alternate IDs for Ma			
	Portable Concrete Bar Alternate Type	Alternate Id	Status	Define Range
	Piece	PC12-6/27/01-CB-402	Available	Count: 2
				<u>C</u> reate Range
				Clear <u>R</u> ange

Figure 29 - Entering a Numeric Suffix for a Range

To create a range, click the *Alternate ID* field to the right of the number and add a numeric suffix to start a range to be specified by the count. If a row is not selected when *Creating a Range*, the following error message will be displayed:



Figure 30 - Error message, Add a Range

Step 7: To specify the Count for the range, click the up/down arrows or enter the amount in the field and click the Create Range button. The Range is then created as shown in the example below:

Alternate Type	Alternate Id	Status	Define Range
Lot	PC111-1	Available	Count: 5
Lot	PC111-2	Available	Boanc  5
Lot	PC111-3	Available	<u>C</u> reate Ran
Lot	PC111-4	Available	<u></u>
Lot	PC111-5	Available	Clear <u>R</u> ang

Figure 31 - Precast Concrete Create Range

**Step 8:** To clear the range, click the **Clear Range** button.

#### **Report Tab - Review Precast Concrete**

The Precast Concrete Report is under the **Report** tab.

**Step 1:** To view the entire report, use the scroll bars or use **Print Preview**.



Figure 32 - Precast Concrete Report Tab Window

**Step 2:** To print the report, click the **Print** icon on the toolbar. HiCAMS will generate a printable version of the report. The Report on PreCast Concrete window will display:

S	1801 E	Inspection Resul ina Departu of Highways, I Blue Ridge Ro Report on Pre	ment of Tra Materials and I. Raleigh, NO	Tests Unit 2 27607	on	Page 1 of 1 07/30/2001		
Report ID: 226 Contract: C105538 Station: 0 + 0 Location NC 42 Contractor: S. T. WOO Facility: Carolina Pri Producer: Carolina Pri	TEN CORPORATION		ins S Te	eport Status: Auth pection Date: 07/10 Inspector: Haile ample From: Plant est Category: Acce Section: 5	0/2001 y, Blaine M			
Material Type Precast Concrete Units	Material Portable Concrete Barrier		ate AgeAt sted Test 0/2001 13	Accepted 1.000	Rejected .000	Test Result Meets Specs	=	
		Air Content % 5.0	6.75	су		ider 2 Average		
		<u>Alternate Type</u> PIECE	PC12-6/27/01-C	B-402	<u>Status</u> Availat	-	_	
Remarks: Metric Projec	t cast Concrete Co., Inc., Carolina	a Precast, Inc Dunn	- PC12					
			<b>Zoom</b> : 100				Page 1 of 1	

**Figure Figure 33 - Report on Precast Concrete** 

**Step 3:** Click the print icon once again to print the report. The Print setup window will display. Click the **Print** button to print the report:

	==
die Print	<u>? ×</u>
Printer: Hicams_HP4MV.DOH-SYSTEM {\NDPS02	5.MIS.DO on
Copies:	<u>P</u> rint
Page Range	Print <u>S</u> etup
ି All	
Current Page	
C Pages:	
Enter page numbers and/or page ranges separated by commas. For example: 1,3,5-12	
Print: All Pages in Range	
□ Print to File	
Collate Copies	
Orientation: Default	<u>C</u> ancel

#### History Tab - Review Precast Concrete

Actions that have been performed for an individual report are listed located under the **History** tab. The historical information includes the *Action, Action Date/Time, Status,* and *Who* performed the action. This area also includes comments that may have been entered during Precast Concrete processing. To view the individual comments for each action, click the appropriate row. See example below:

Report Name: Precast Concrete	Report ID:	: 226	Report Status: Authorized	
ineral Results Alt IDs Report History	1			
Action	Action Date	Status	Who	_
Authorize	07/23/2001 11:31:54 AM	Authorized	Clark, Clarence C	
Create	07/18/2001 2:12:23 PM	In Process	Atkinson, Jeana M	
Comment	07/18/2001 2:09:42 PM	In Process	Atkinson, Jeana M	
Comment:				

Figure 34 - Precast Concrete History Tab Window

#### REPORT ON PRECAST CONCRETE PROCESS FLOW



MOE - Materials Operation Engineer RE - Resident Engineer SCE - State Construction Engineer SMS - Section Material Specialist