

CONCRETE PAVING ITEMS

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OVERVIEW

Concrete Paving Items have different documentation requirements for each unit of measure (UOM). All Concrete Paving and related items must be counted and measured. Documentation examples for a few selected Concrete Paving and related items are illustrated in this chapter. Some minor modifications may be required to show the unusual circumstances that may occur with different items, but the general format should be followed. If there are items which cannot be documented according to the following examples, contact the Construction Admin Services Section for assistance.

INSPECTOR'S RESPONSIBILITIES – CONCRETE PAVING ITEMS

- Obtain a copy of the Agreement Estimate report to use as a reference to ensure that items and quantities are paid in the correct category (AEB).
- Review the following for accuracy:
 - Special Provisions
 - Supplemental Notices
 - Contract Modifications
- Turn in ALL concrete paving and related item calculation sheets to the Office Engineer.

INSPECTOR DAILY REPORT (IDR) – MOBILE INSPECTOR

1. Create an IDR in Mobile Inspector daily to document the activity being monitored. Refer to the [Mobile Inspector User Guide](#) for details on using this application.
 - Report Details – daily activities
 - Item Postings – item(s) and quantity(s)
 - Equipment – type and hours
 - Personnel – title and hours
2. Record the following required information in the Report Details window (Figure 12-1):
 - Date
 - Weather
 - Low and high temperature
 - Attachments (N/A) – Send ALL photos via email
 - Remarks – Verify with the Resident Engineer on what information is required

Figure 12-1: IDR Report Detail Window

3. Record the following required information in the New Item Postings window:
 - Item
 - Proj/Catg – Refer to the AEB report.
 - Contractor – ALWAYS the Prime Contractor (Subs are not allowed)
 - Qty – Based on measurements, calculations, counts and plan
 - Location – Must show line designation, LT, RT or CL and offset if known.
 - Station From/To – Refer to Contract plans.
 - Attention Flag – Use to bring attention to Resident Engineer and Office Engineer for overruns and plan errors.
 - Remarks – Must show calculations when appropriate, refer to Calculation Sheet when appropriate (Refer to Appendix B, Calculation Formulas, in this Manual for a Calculation Sheet example), other information relevant to item posting, and explanations when Attention Flag is checked.

NOTES for Concrete Paving item postings:

- Refer to Figure 12-2 through Figure 12-5 for examples of concrete paving and related item postings with different UOM.
- If a gallon item does not come in small size containers use the application and surface area to calculate the gallons applied.
The following calculation will be documented in the IDR posting:

$$\text{Vol(gas)} = W \times L \times \text{App Rate}$$

$$\text{Pay} = \# \text{ gallons}$$

$$W = \#$$

$$L = \#$$

$$\text{App Rate} = 1\text{gal}/150 \text{ SQFT (Per Subsection 409.03.13, (Portland Cement Concrete Pavement) Construction – Curing, of the Standard Specifications.}$$
- The Inspector will visually make sure the coverage of the cure compound was satisfactory.

New Item Posting

Item: PCCP CURING COMPOU...

Proj/Catg: 60638C2C, 02, New "WS" Bri...

Contractor: LAS VEGAS PAVING CORP...

Qty: 206 GAL

Location: "BW" RT

Station From: 10 + 00

Station To: 50 + 00

Attention Flag:

Remarks:

Number of Drums = 3.75
 Measurement was done by stabbing the drum.
 See email: IDR 2017-3-18 TJW for container label and calculations.

118 remaining

Figure 12-2: IDR Item Posting – Concrete Paving GAL

NOTES for Concrete Paving GAL (Figure 12-2):

- Payment for GAL items will be based on field measurements and calculations.
- Calculations will consist of counting the drums used or measuring the container and calculating the quantity when a full drum is not used. If measured by another device show the calculations on how gallons were derived.
- A picture of a label must be taken and emailed to the Office Engineer for backup to confirm the quantity of the container.
- In Location, enter the Line Designation and LT, RT, or CL.
- Check the Attention Flag to notify the Office Engineer there's an email regarding this Item Posting
- Sig. Fig. = 1

New Item Posting

Item: SAW AND RESEAL TRAN...

Proj/Catg: 60638C2C, 02, New "WS" Bri...

Contractor: LAS VEGAS PAVING CORP...

Qty: 750 LFT

Location: "BW" RT

Station From: 10 + 00

Station To: 25 + 00

Attention Flag:

Remarks:

95 x 15.79 = 1500
 50% for saw only = 750

214 remaining

Figure 12-3: IDR Item Posting – Concrete Paving LFT

NOTES for Concrete Paving LFT (Figure 12-3):

- Payment for LFT items will be based on field measurements.
- No percentages other than 50% for sawing and 50% for sealing will be allowed for payment.
- In Location, enter the Line Designation and LT, RT, or CL.
- Sig. Fig. = 1

New Item Posting

Item: MILLED RUMBLE STRIPS

Proj/Catg: 60638C2C, 02, New "WS" Bri...

Contractor: LAS VEGAS PAVING CORP...

Qty: .83 MILE

Location: "BW" RT

Station From: 451 + 0

Station To: 495 + 0

Attention Flag:

Remarks:
4400 / 5280 = .83

238 remaining

Figure 12-4: IDR Item Posting – Concrete Paving MILE

NOTES for Concrete Paving MILE (Figure 12-4):

- Payment for MILE items will be based on field measure.
- Calculation for MILE = $LFT \div 5280$ (Always use this number)
- In Location, enter the Line Designation and LT, RT, or CL.
- Sig. Fig. = .01

New Item Posting

Item: PORTLAND CEMENT CO...

Proj/Catg: 60638C2C, 02, New "WS" Bri...

Contractor: LAS VEGAS PAVING CORP...

Qty: 2488.9 SQYD

Location: "BW" RT

Station From: 10 + 00

Station To: 50 + 00

Attention Flag:

Remarks:
4000 x 5.6 / 9 = 2488.9

231 remaining

Figure 12-5: IDR Item Posting – Concrete Paving SQYD

NOTES for Concrete Paving SQYD (Figure 12-5):

- Payment for SQYD item will be based on field measure and calculations.
- Calculation for SQYD = $L \times W \div 9$
- In Location, enter the Line Designation and LT, RT, or CL.
- Sig. Fig. = .1

- Record the following required information in the New Equipment window (Figure 12-6 and Figure 12-7):
 - Contractor – Actual contractor performing the work (include subs).
 - Type – Detailed description of the equipment (e.g., diesel, HP, model, make).
 - Number – How many of each type.
 - Hours – Total hours in use.

Note: An attachment to an equipment's base configuration must have its own record.

New Equipment

Contractor: LAS VEGAS PAVI...
 Type: Bobcat 256C Skid ...
 Number: 1
 Hours: 8

✓ ✕

Figure 12-6: IDR Equipment Entry

Add Equipment

LAS VEGAS PAVING CORPORATION
 Bobcat 256C Skid Steer, Diesel, 82HP, 2350lbs
 Number: 1.00 Hours: 8.00

LAS VEGAS PAVING CORPORATION
 Bobcat Auger Loader, Attachment, 15C w/12" bit
 Number: 1.00 Hours: 8.00

Figure 12-7: IDR Equipment List

5. Record the following required information in the New Personnel window (Figure 12-8 and Figure 12-9):
 - Contractor – Actual contractor performing the work (include subs).
 - Type – Details of personnel type (e.g., foreman, laborer, truck driver).
 - Number – How many of each title.
 - Hours – Total hours worked.

New Equipment

Contractor: LAS VEGAS PAVI...
 Type: Bobcat 256C Skid ...
 Number: 1
 Hours: 8

✓ ✕

Figure 12-8: IDR Personnel Entry



Add Personnel	
LAS VEGAS PAVING CORPORATION Foreman - Donald Driver Number: 1.00 Hours: 8.00	 
LAS VEGAS PAVING CORPORATION Laborer Number: 3.00 Hours: 8.00	 
LAS VEGAS PAVING CORPORATION Operator Number: 2.00 Hours: 8.00	 

Figure 12-9: IDR Personnel List

- Complete a final review of the IDR and lock it.

Note: When a Mobile Inspector IDR is completed and locked the information is uploaded into a FieldManager IDR, where it is reviewed and generated for processing progress payments.

OFFICE ENGINEER'S RESPONSIBILITIES – CONCRETE PAVING ITEMS

- Collect all Material Certifications. Scan and save them to the appropriate EDOC Contract Files\Material and Testing Files\Division No. 4 – Materials Division Certs and Test Reports\4.# Send original certifications to the Materials Division for approval.
- Save concrete paving and related item photos in the appropriate EDOC Contract Files\Contract Files\Division No. 3 - Multimedia Records\3.1 Photographs with Descriptions directory.
- Review concrete paving and related item calculation sheets for accuracy and save electronically in the appropriate EDOC Contract Files\Contract Files\Division No. 7 - Construction Pay Estimate and Related Data\7.10 IDR Calculation Sheets directory using this naming convention: IDR YYYY-MM-DD Inspectors Initials, (e.g. IDR 2016-03-19 KMM).
- Approve materials in FieldManager when the approved material certifications are received from the Materials Division. Refer to Chapter 6, Working with Materials, in the [FieldManager User Guide](#), for details.
- Distribute executed copies of Contract Modifications to Inspectors.

INSPECTOR DAILY REPORT (IDR) – FIELDMANAGER

When a Mobile Inspector IDR is locked by an Inspector, the information is uploaded into a FieldManager IDR. Refer to Chapter 7, Inspector Daily Report, in the [FieldManager User Guide](#) for details.

- Verify the following:
 - Information in the Comments and Remarks
 - Information in the Contractor tab (Personnel and Equipment)
 - Items are paid correctly according to the contract documents (e.g., plans, supplemental notices, Contract Modifications).
 - Item quantities
 - Quantities in postings are documented to the correct Significant Figure
 - Stations and Line Designations in the Locations
 - Calculations are correct.
 - Remarks reference calculation sheets, if applicable.

Note: Length does not always equal the difference between the beginning and ending station. Sometimes there is a curve or an obstacle that will affect the distance. Always check with the Inspector before assuming the calculations are incorrect.

2. Generate the IDR.

