This chapter contains the following sections:

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Office Engineer's Responsibilities – Concrete Paving Items	.12-9



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
 - Change Orders
- Turn in ALL concrete paving and related item calculation sheets to the Office Engineer.

DAILY WORK REPORT (DWR) - MOBILE INSPECTOR

- 1. Create a DWR 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, number and hours used
 - Personnel title and hours
- 2. Record the following required information in the Report Details window (Figure 12-1):
 - Date
 - Weather
 - Low Temp and High Temp
 - Attachments: (N/A) Send ALL photos via email.
 - Remarks: Select the appropriate Remark Type. Verify with the Resident Engineer on what information is required.

:	Report Details
Date:	Fri, 06/07/2019
Weather:	01
Low Temp:	55
High Temp:	90
Rainfall Amt:	
Attachments:	o Ø
Remarks:	GENERAL
"BW" 10 + 00 to "BW" Transverse Weakened P started at 7:00am and Cody Bellinger, Q & D with the quantities t	62 + 69.89 Rt. PCCP and Saw lane Joint. Contractor ended at 4:00pm. I got with Construction foreman to agree hat I posted for payment.
	3756 remainin

Figure 12-1: DWR Report Detail Window

- 3. Record the following required information in the New Item Postings window:
 - Item: Select the appropriate Project/Catg., if item is in more than one Project/Catg. Refer to the AEB report.
 - Contractor: ALWAYS the Prime Contractor (Subs are not allowed).
 - · Qty: Based on plan, measurements and calculations
 - Location: Line Designation
 - Station From/To: Refer to Contract plans.
 - Offset Type: Enter the LT, RT, or CL.
 - Offset Dist. Enter if known.
 - Comments
 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.
 - Attention Flag Use to bring attention to Resident Engineer and Office Engineer for overruns and plan errors. Must enter Attention Comments.

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 DWR posting:

Vol(gas) = W x L x App Rate

Pay = # gallons

W = # L = #

App Rate = 1gal/150 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 Ite	em Posting		
Item:	PCCP CURING COMPOU		
Contractor:	Q&D CONSTRUCTION INC		
Qty:	206.00 GAI		
Authorized: Total Posted:	300.000 GAL 35.000 GAL		
Location:	"BW"		
Station From:	10 + 00		
Offset Type: Offset Dist:	RT.		
Station To: Offset Type:	50 + 00 BT		
Offset Dist:			
Measured: Comments:			
Number of Drums = 3.75 Measurement was done by s	stabbing the drum.		
	3933 remainir		
Attention:	✓		
Attention Comments:			
See email: DWR 2019-7-8 ⁻ calculations.	TJW for container label and		
	191 remainir		

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



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

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. This photo is saved to the appropriate EDOC Contract Files\Contract Files\Division No. 7 - Construction Pay Estimate and Related Data directory.
- Location: Enter the Line Designation
- Station From/To: Refer to Contract plans
- Offset Type: Enter the LT, RT, or CL.
- Offset Dist: Enter if known
- Check the Attention Flag to notify the Office Engineer there's an email regarding this Item Posting.

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.
- Location: Enter the Line Designation
- Station From/To: Refer to Contract plans
- Offset Type: Enter the LT, RT, or CL.
- Offset Dist: Enter if known
- Sig. Fig. = .01

MILLED			
	MILLED RUMBLE STRIPS		
Q&D CC	NSTRUC	TIC	DN INC 🔻
			0.83 MILE 4.250 MILE 3.220 MILE
"BW"			
	451	+	00 RT.
	495	+	00 RT.
	"BW"	"BW" 451 495	"BW" 451 + 495 +

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

- Payment for MILE items will be based on field measure.
- Calculation for MILE = LFT ÷ 5280 (Always use this number)
- Location: Enter the Line Designation
- Station From/To: Refer to Contract plans
- Offset Type: Enter the LT, RT, or CL.
- Offset Dist: Enter if known
- Sig. Fig. = .01

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

Item:	PORTLAND CEMENT CO 🔻
Contractor:	Q&D CONSTRUCTION INC 🛩
Qty: Authorized: Total Posted:	2488.89 SQYD 3,546.000 SQYD 0.000 SQYD
Location:	"BW"
Station From: Offset Type: Offset Dist:	10 + 00 RT
Station To: Offset Type: Offset Dist:	50 + 00 RT
Measured:	
Comments:	
4000 L x 5.6 W / 9	= 2488.89 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 x W ÷ 9
- Location: Enter the Line Designation
- Station From/To: Refer to Contract plans
- Offset Type: Enter the LT, RT, or CL.
- Offset Dist: Enter if known
- Sig. Fig. = .01

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

- 4. 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: Select from the Equipment list
 - Used: How many of each type.
 - Hours Used: Total hours in use.

 Comments: Details of the type of equipment (e.g., diesel, HP, model, make). Include equipment attachment information if applicable.

	New Equipment
Contractor:	LAS VEGAS PAVING C
Туре:	LOADER / BACKHOE /
Used:	1
On Site:	
Hours Used:	8
Hours Idle:	
Comments:	L
Bobcat 256C, Skid with an Auger Loac	Steer, Diesel, 82HP, 1350lbs der, attachment, 15C w/12" bit
8	506 remainir
	✓ 🗶

Figure 12-6: DWR Equipment Entry

	_	Add E	quipment		_
Contra	ctor: LAS VE	EGAS PAVI	NG CORP	ORATION	
Type:	OADER / BA	CKHOE / V	VHEEL LC	ADER / S	KID STEER
Used:	1				
Hours	Used: 8.000				
Comm Bobcat 2 attachm	ents: 56C, Skid Stee ent, 15C w/12" b	r, Diesel, 82HF vit	^o , 1350lbs w	ith an Auger	Loader,

Figure 12-7: DWR 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: Select from the Personnel list.
 - Number: How many of each title.
 - Total Hours: Total hours worked.
 - Comments: Details of personnel type (e.g., foreman w/name, laborer, truck driver).

Net	w Equipment		
Contractor:	LAS VEGAS PAVING C 🔻		
Туре:	LOADER / BACKHOE / 👻		
Used:	1		
On Site:			
Hours Used:	8		
Hours Idle:			
Comments:			
Bobcat 256C, Skid Ste with an Auger Loader,	er, Diesel, 82HP, 1350lbs attachment, 15C w/12" bit		
2	506 remaining		
•	*		

Figure 12-8: DWR Personnel Entry

	Add Personnel	
Contractor: LAS	VEGAS PAVING CORPORATION	
Description: LA	BORER	
Number: 3	Total Hours: 8.000	
Contractor: LAS	VEGAS PAVING CORPORATION	
Description: OP	ERATING ENGINEER	
Number: 2	Total Hours: 8.000	
Contractor: LAS	VEGAS PAVING CORPORATION	
Description: LA	BORER FOREMAN	
Number: 1	Total Hours: 8.000	
Comments: Foreman - Cody Bell	linger	

Figure 12-9: DWR Personnel List

6. Complete a final review of the DWR, lock the report, and Sync Data.

Note: When a Mobile Inspector DWR is completed, locked and Synd Data is completed, the information is uploaded into an AWP DWR, where it is reviewed and Approved for processing progress payments.

DAILY WORK REPORT (DWR) - AWP EDITS

The Officer Engineer reviews each Inspector's DWRs for required entries and accuracy. If edits are needed on a DWR, the Inspector who created it will be required to log into the AWP program on a computer (not the iPAD) and complete the edits. Refer to Chapter 5, Daily Work Reports, Section, Editing a Mobile Inspector DWR, in the <u>AWP User Guide</u> for details.

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. 3 – Materials Division Certs and Test Reports\3.# directory.
 - Name the scanned file with the Item No. and Description (e.g., 4090210 Portland Cement Concrete Pavement (9-Inches).pdf).
 - Email the scanned certifications to the Materials Division for approval.
- Withold item payment(s) for insufficient material certifications using AWP's User-Generated Quantity-Based Item Adjustments. Refer to Chapter 9, Payment Estimates, in the <u>AWP User Guide</u> and Chapter 24, Progress Payments, in this Manual for details.
- Save concrete paving items general information photos in the appropriate EDOC Contract Files\Contract Files\Division No. 3 Multimedia Records\3.1 Photographs with Descriptions directory.
- Save concrete paving items label 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 DWR Calculation Sheets directory using this naming convention: DWR YYYY-MM-DD Inspectors Initials, (e.g. DWR 2016-03-19 KMM).
- Distribute executed copies of Change Orders to Inspectors.

DAILY WORK REPORT (DWR) - AWP

When a Mobile Inspector DWR is locked by an Inspector, the information is uploaded into an AWP DWR. Refer to Chapter 5, Daily Work Reports, in the AWP User Guide for details.

- 1. Verify the following:
 - Information in the Remarks
 - Information in the Contractor On Site tab
 - Information in the Contractor Equipment tab
 - Information in the Contractor Personnel tab
 - Items are paid correctly according to the contract documents (e.g., plans, supplemental notices, Change Orders).
 - Item quantities
 - Quantities in postings are documented to the correct Significant Figure (.01)
 - Stations and Line Designations in the Locations
 - Calculations are correct.
 - · Comments 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. Approve the DWR if everything is correct.
- 3. If there are edits required in the DWR, Reject it.
- 4. Notify the Inspector who created the DWR there are edits to be completed. The Inspector will be required to log into the AWP program on a computer (not the iPAD) to complete the edits.
- 5. Review the corrected DWR and Approve.