

STRIPING ITEMS

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OVERVIEW

Striping Items have different documentation requirements for each unit of measure (UOM). All Striping Items must be counted or measured and calculated. Documentation examples for a few selected Striping 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.

When material samples are taken for the Materials Division labs, refer to the [AWP Sample Records](#) document for details.

When an Inspector observes contractor striping testing refer to the [AWP Construction Agency View Manual](#) for details on creating the required Materials Sample Record.

INSPECTOR'S RESPONSIBILITIES – STRIPING ITEMS

- Use the Agreement Estimate report as a reference to ensure that items and quantities are paid in the correct category (AEB).
- Use the Striping General Notes, located in the Contract plans (Figure 16-1), to help identify items, quantities, descriptions and locations.

STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	SPSR-0582(003)	CLARK	ST1

BOULDER HWY TOTAL			
ITEM NO.	DESCRIPTION	TOTAL	UNIT
2020515	REMOVAL OF RAISED PAVEMENT MARKER	371.00	EACH
2021290	REMOVE PAVEMENT MARKINGS	392.00	LINFT
2021295	REMOVE PAVEMENT MARKINGS	233.00	SQYD
6321160	POLYUREA PAVEMENT STRIPING (SOLID WHITE)	363.00	LINFT
6321250	POLYUREA PAVEMENT STRIPING (SOLID YELLOW)	999.00	LINFT
6321262	POLYUREA PAVEMENT STRIPING (VARIES)	2180.00	SQFT
6321300	POLYUREA PAVEMENT STRIPING (DOUBLE SOLID YELLOW)	354.00	LINFT
6341030	THERMOPLASTIC PAVEMENT MARKING (24-INCH SOLID WHITE)	943.00	LINFT
6341060	THERMOPLASTIC PAVEMENT MARKING (VARIES)	658.00	SQFT

STRIPING GENERAL NOTES

1. The locations of crosswalks and stop bars are controlled by the associated curb ramps per Standard Detail T-38.1.3 unless Indicated otherwise. Refer to the structure list for exact locations of curb ramps.

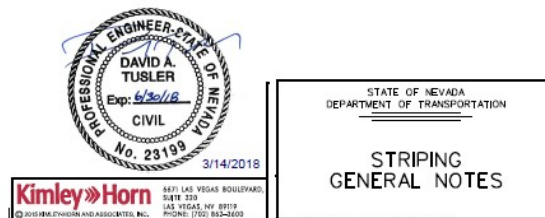


Figure 16-1: Example of Striping General Notes – Striping Items

- Review the following for accuracy:
 - Special Provisions
 - Supplemental Notices

- Change Orders

Note: When any changes are made to an item, reference the Change Order number in the DWR item posting remarks.

- Turn in ALL Striping 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 16-2):
 - **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.

Figure 16-2: 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
 - **Material Set:** Select appropriate value (if applicable)
 - **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 Striping Item postings:

- If an each item has a specific location/station callout in the plans, then a separate posting will be done. It should NOT be grouped in a posting.
- If each items do NOT have a location/station callout but are grouped in a table or structure list, then they can be combined in one posting.
- Refer to Figure 16-3 through Figure 16-6 for examples of Striping item postings with different UOM.

New Item Posting

Item: REFLECTIVE PAVEME... ▼

Contractor: SIERRA NEVADA CON... ▼

Qty: 78.00 EACH

Authorized: 159.000 EACH

Total Posted: 0.000 EACH

Location: "RW"

Station From: 382 + 43

Offset Type: RT

Offset Dist:

Station To: 395 + 02

Offset Type: RT

Offset Dist:

Measured:

Comments:

NB Lane # 1

3988 remaining

NOTES for Striping EACH (Figure 16-3):

- Payment for EACH items will be based on field count.
- This example shows an EACH item combined.
- 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 16-3: DWR Item Posting – Striping EACH

New Item Posting

Item: EPOXY PAVEMENT...
 Contractor: SIERRA NEVADA C...
 Qty: 297.00 LFT
 Authorized: 280.000 LFT
 Total Posted: 0.000 LFT
 Location: "CW"
 Station From: 982 + 00
 Offset Type: LT
 Offset Dist:
 Station To: 984 + 97
 Offset Type: LT
 Offset Dist:
 Measured:
 Comments:
 Outside left turn lane, between the thru lane and the turn lane.
 3935 remaining

Figure 16-4: DWR Item Posting - Striping LFT

NOTES for Striping LFT (Figure 16-4):

- Payment for LFT items will be based on field measurements.
- 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

New Item Posting

Item: POLYUREA PAVEMENT...
 Contractor: SIERRA NEVADA CONS...
 Qty: .12 MILE
 Authorized: 3.250 MILE
 Total Posted: 0.000 MILE
 Location: "RW"
 Station From: 4 + 36
 Offset Type: RT
 Offset Dist:
 Station To: 10 + 86
 Offset Type: RT
 Offset Dist:
 Measured:
 Comments:
 650 LFT / 5280 = .12 Miles
 Northbound center line
 3949 remaining

Figure 16-5: DWR Item Posting – Striping MILE

NOTES for Striping MILE (Figure 16-5):

- Payment for MILE items will be based on field measurements.
- 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

New Item Posting

Item: EPOXY PAVEMENT...

Contractor: SIERRA NEVADA C...

Qty: 108.50 SQFT

Authorized: 1,410.500 SQFT

Total Posted: 0.000 SQFT

Location: "CW"

Station From: 982 + 40

Offset Type: LT

Offset Dist:

Station To: 987 + 77

Offset Type: LT

Offset Dist:

Measured:

Comments:

Outside left turning lane:
 Left Turn Arrows = 15.50 sqft. (2017
 Standard Plans Pg. 156 T38.1.1)
 7 arrows X 15.50 sqft = 108.50 sqft.

3865 remaining

NOTES for Striping Remove and Reset SQFT (Figure 16-6):

- Payment for SQFT items will be based on calculation, field measurements, Standard Plans or the Manual on Uniform Traffic Control Devices.
- Calculation for SQFT = L X W
- 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 16-6: DWR Item Posting – Striping SQFT

4. Record the following required information in the New Equipment window (Figure 16-7 and Figure 16-8):
 - **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.
 - **Hours Idle:** 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...

Type: LOADER / BACKHOE /...

Used: 1

On Site:

Hours Used: 8

Hours Idle:

Comments:

Bobcat 256C, Skid Steer, Diesel, 82HP, 1350lbs with an Auger Loader, attachment, 15C w/12" bit

506 remaining

✓
✗

Figure 16-7: DWR Equipment Entry

Add Equipment	
Contractor:	LAS VEGAS PAVING CORPORATION
Type:	LOADER / BACKHOE / WHEEL LOADER / SKID STEER
Used:	1
Hours Used:	8.000
Comments:	Bobcat 256C, Skid Steer, Diesel, 82HP, 1350lbs with an Auger Loader, attachment, 15C w/12" bit
 	

Figure 16-8: DWR Equipment List

5. Record the following required information in the New Personnel window (Figure 16-9 and Figure 16-10):
- **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).



New Personnel	
Contractor:	LAS VEGAS PAVING C... ▼
Personnel:	LABORER FOREMAN ▼
Employee:	N/A
Decision Class:	Select ▼
Number:	<input type="text" value="1"/>
Total Hours:	<input type="text" value="8"/>
Comments:	<input type="text" value="Foreman - Cody Bellinger"/> <small>3975 remaining</small>
 	

Figure 16-9: DWR Personnel Entry







Add Personnel	
Contractor: LAS VEGAS PAVING CORPORATION Description: LABORER Number: 3 Total Hours: 8.000	 
Contractor: LAS VEGAS PAVING CORPORATION Description: OPERATING ENGINEER Number: 2 Total Hours: 8.000	 
Contractor: LAS VEGAS PAVING CORPORATION Description: LABORER FOREMAN Number: 1 Total Hours: 8.000 Comments: Foreman - Cody Bellinger	 

Figure 16-10: DWR Personnel List

- 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 may 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 [AWP User Guide With Materials](#) for details.

OFFICE ENGINEER'S RESPONSIBILITIES – STRIPING ITEMS

- Collect all Material Certifications. Scan and save them to the Contract Files\Materials\03 Cert & Test Reports\directory. Each Material Certification must have the contract ID, bid item and represented quantity entered. Hand-written entries are acceptable for the contract ID, bid item and quantity.
 - Name the scanned certificate file(s) with the contract ID, Material Code Name & description - CERT (e.g., 03904 M6330001 Payment Markers - CERT.pdf). The Material Code Name and description is found in the NDOT Power BI, AWP Reports, Certification Tracking report.
- Create an AWP Materials Cert Sample Record for each Material Certification received. Refer to the [AWP Cert Sample Record Creation](#) document and Chapter 24, Progress Payments, in this Manual for details.
- Save Striping Item photos in the appropriate Contract Files\Contract\03 Multimedia\3.# Photos directory.
- Review Striping Item calculation sheets for accuracy and save electronically in the appropriate Contract Files\Contract\07 Estimates\7.# Calc 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 With Materials](#) for details.

- 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)
 - Material Set is correct.
 - 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.

- Approve the DWR if everything is correct.
- If there are edits required, the Office Engineer may complete them and add a DWR Note with their name, date, and details of the correction. The DWR can then be Approved.
- If there are edits which need to be completed by the Inspector who created the DWR, the Inspector will be required to log into the AWP program on a computer (not the iPad) to complete the edits.
- Review the edited DWR and Approve.