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OVERVIEW

Permanent Sign Items have different documentation requirements for each unit of measure (UOM). All Permanent Sign Items must be counted, measured and calculated, or based on plan. Documentation examples for a few selected sign 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.

INSPECTOR'S RESPONSIBILITIES - SIGN ITEMS

- Use the Agreement Estimate Report as a reference to ensure that items and quantities are paid in the correct category (AEB).
- Use the Sign Summary Lists (Figure 20-1) the Sign Locations (Figure 20-2), located in the Contract plans to, help identify items, quantities, descriptions and locations.

																	STATE	PROJECT NO.		COUNTY		SH	EET NO.
		S	G	N	SUMMARY					00	ATIO	IC	DEM	ov	ALC		NEVADA	NHP-080-3(065)		HUMBOLDT		1	TS 52
									NEVVL	.00	AIIO	13	REIM	000	AL3	**POST LENGTHS & TYPE ARE FOR	INFORMATI	IONAL ESTIMATING	PURPOSE	ONLY. SEE	GENE	RAL NO	TES.
	1				Post **	÷		5		m 2		1										S	ign
1.000	Brace	Len	gth (ft)	2		Ŧ		th	1. D	d P	New			P.F.	Removal						5	Nu	mber
Remarks	Length (ft)	Inner	Outer	# of Pos	Type and Size (in)	Mounting P	Slope	Curb & G	Panel Size (in. x in.) w h	Panel A	Bid Item Number	Sign No.	Panel Size (in. x in.) w h	Panel A	Bid Item Number	Sign	Message		Si	ign Station	Locati	New	Removal
		12.2		1	3" RND SNGL POST	7	6 : '	1	36 x 36	9.00	627 0190	R5-1	36 x 36	9.00	627 0240	DO NOT ENTER							
MOUNT BACK TO BACK						-			36 x 12	3.00	627 0190	R6-1R	36 x 12	3.00	627 0240	ONE WAY (ENCLOSED IN RIGH	TARROW		18	R3C" 23 + 70	LT	130	130R
MOUNT BACK TO BACK									36 x 12	3.00	627 0190	R6-1L	36 x 12	3.00	627 0240	ONE WAY (ENCLOSED IN LEFT	ARROW)						
		12'2'		1	3" RND SNGL POST	7	6 : '	1	36 x 36	9.00	627 0190	R5-1	36 x 36	9.00	627 0240	DO NOT ENTER							
		12'1'		1	2.5" SQ 12 GA POST	7	6 :	1	36 x 36	7.48	627 0190	R1-1	36 x 36	7.46	627 0240	STOP			°R	R3C" 23 + 85	LT	131	131R
	-		1			-	:	-	12	1.60	807.0100		10	1.60	807.0040	DIOVOLE DOLITE MARKED			*0	D20" 24 + 0E	1.7	100	1000
	-	11'		1	2.5" SQ 12 GA POST	7	6	1	12 x 10	0.50	627 0190	M8-1	12 x 10	0.50	627 0240	HORIZONTAL ARROW				100 244 00	LI	132	132R
							:													Maria ante est		5	
		11'1'		1	2.5" SQ 12 GA POST	7	6 : '	1	36 x 24	6.00	627 0190	R5-1A	36 x 24	6.00	627 0240	WRONG WAY			*R	R3C" 28 + 10	RT	133	133R
		1	1	1				1	1	1	1		1	1	1								1

Figure 20-1: Sign Summary List



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- 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 sign 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 <u>Mobile Inspector User Guide</u> 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 20-3):
 - 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 20-3: 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 Permanent Sign 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.
- If the message, panel size, sign number and the SQFT match the Sign Summary Sheets in the Contract plans, enter the New/Removal Sign Number in the Posting Location.
- If the message, panel size, sign number and the SQFT DOES NOT match the Sign Summary Sheets in the Contract plans, document an explanation of the changes in the Remarks box.
- Refer to Figure 20-4 through Figure 20-8 for examples of sign item postings with different UOM.

Item:	PERMANENT OVERHEA 🔻
Contractor:	SIERRA NEVADA CONS
Qty: Authorized:	1.00 EACH 2.000 EACH
Total Posted: Location:	0.000 EACH
Station From: Offset Type: Offset Dist:	++
Station To: Offset Type: Offset Dist:	+
Measured:	
Comments:	

Figure 20-4: DWR Item Posting – Sign EACH

NOTES for Sign EACH (Figure 20-4):

- Payment for EACH items will be based on field count.
- Location: Enter the Sign Station
- Offset Type: Enter the LT, RT, or CL.
- Offset Dist: Enter if known
- Sig. Fig. = .01

Item:	PERMANENT SIGNS (GR 🔻
Contractor:	SIERRA NEVADA CONS 🔻
Qty: Authorized: Total Posted:	7.46 SQFT 98.240 SQFT 0.000 SQFT
Location:	New Sign #131
Station From: Offset Type: Offset Dist:	+
Station To: Offset Type: Offset Dist:	+
Measured:	
Comments:	



	New Item Posting
Item:	PERMANENT SIGNS, RE 🔻
Contractor:	SIERRA NEVADA CONS 🔻
Qty: Authorized: Total Posted:	7.46 SQFT 65.120 SQFT 0.000 SQFT
Location:	Removal Sign #131R
Station From: Offset Type: Offset Dist:	+
Station To: Offset Type: Offset Dist:	+
Measured:	



NOTES for Sign SQFT (Figure 20-5):

- Payment for SQFT item will be based on plan quantity.
- Location: Enter the Sign Number
- Sig. Fig. = .01

NOTES for Sign (Remove or Reset) SQFT (Figure 20-6):

- Payment for SQFT item will be based on plan quantity.
- Location: Enter the Sign Number
- Sig. Fig. = .01

RMANENT SIGNS (GR RRA NEVADA CONS 12.00 SQFT 87.250 SQFT 0.000 SQFT C" 23+70 + LT + LT + +
RRA NEVADA CONS
12.00 SQFT 87.250 SQFT 0.000 SQFT C" 23+70 + LT
87.250 SQFT 0.000 SQFT C" 23+70 + LT
C" 23+70
+ LT
+
2/144=3.00 SQFT. row). 6/144=9.00 SQFT.
1





	New Item Posting
Item:	PERMANENT SIGNS (GR •
Contractor:	SIERRA NEVADA CONS
Qty:	119.00 SQF
Authorized: Total Posted:	254.210 SQF 0.000 SQF
Location:	"LNE" 318 + 50
Station From: Offset Type: Offset Dist:	++
Station To: Offset Type: Offset Dist:	+
Measured:	
Comments:	
Sign # = Special pe Panel Size 204 x 84 204 X 84 / 144 = 12 Message: Red Rock (er CO # 3 4 19.00 SQFT. Canyon, Death Valley Next Right

NOTES for Sign (Remove or Reset) SQFT (Figure 20-7):

- Payment for SQFT item will be based on field measurements and calculations if different than plan.
- Calculation for SQFT = L x W / 144 (converting inches to feet).
- Location: Enter the Sign Station
- Offset Type: Enter the LT, RT, or CL.
- Offset Dist: Enter if known
- Sig. Fig. = .01
- Enter the Sign Number, panel size, SQFT and message in Comments.

NOTES for Sign (Remove or Reset) SQFT (Figure 20-8):

- Payment for SQFT item will be based on field measurements and calculations if different than plan.
- Calculation for SQFT = L x W / 144 (converting inches to feet).
- Location: Enter the Sign Station
- Offset Type: Enter the LT, RT, or CL.
- Offset Dist: Enter if known
- Sig. Fig. = .01
- Enter the Sign Number, panel size, SQFT and message in Comments.

Figure 20-8: DWR Item Posting – Sign (Remove or Reset) SQFT

- 4. Record the following required information in the New Equipment window (Figure 20-9 and Figure 20-10):
 - 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	v Equipment
Contractor:	LAS VEGAS PAVING C 💌
Туре:	LOADER / BACKHOE / 🔻
Used:	1
On Site:	
Hours Used:	8
Hours Idle:	
Comments:	
Bobcat 256C, Skid Stee with an Auger Loader,	er, Diesel, 82HP, 1350lbs attachment, 15C w/12" bit
	506 remaining
✓	

Figure 20-9: DWR Equipment Entry



Figure 20-10: DWR Equipment List

- 5. Record the following required information in the New Personnel window (Figure 20-11 and Figure 20-12):
 - 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 Pe	ersonnel	
Contractor:	LAS VEGAS PAVING C	-
Personnel:	LABORER FOREMAN	-
Employee:	N/A	
Decision Class:	Select	-
Number:		1
Total Hours:		8
Comments:		
Foreman - Cody Bellinger		
	3975 rem	nainir
~	×	

Figure 20-11: DWR Personnel Entry

	Add Personnel	
Contractor: LAS VE	GAS PAVING CORPORATION	
Description: LABOR		
Number: 3	Total Hours: 8.000	\square
Contractor: LAS VE	GAS PAVING CORPORATION	
Description: OPERA	TING ENGINEER	
Number: 2	Total Hours: 8.000	
Contractor: LAS VE	GAS PAVING CORPORATION	
Description: LABOR	ER FOREMAN	
Number: 1	Total Hours: 8.000	
Comments: Foreman - Cody Bellinger	r	
cand 2004		

Figure 20-12: 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 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 – SIGN ITEMS

- Collect all Material Certifications. Scan and save them to the Contract Files\Materials\03 Cert & Test Reports\3.# 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 and description, load number (if applicable) CERT (e.g., 03904 M6270001 Permanent Signs - 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 <u>AWP Cert Sample Record Creation</u> document and Chapter 24, Progress Payments, in this Manual for details.
- Save Permanent Sign Items photos in the appropriate Contract Files\Contract\03 Multimedia\3.# Photos directory.
- Review Permanent Sign Items 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.