



## *Florida Department of Transportation*

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**Mail Station 32**

### **ROADWAY DESIGN BULLETIN 07-09**

**DATE:** December 18, 2007

**TO:** District Design Engineers, District Estimates Coordinators,  
Plans Preparation Manual Holders

**FROM:** David C. O'Hagan, PE, State Roadway Design Engineer

**COPIES:** Lora Hollingsworth, Ananth Prasad, Brian Blanchard, Duane Brautigam, Greg Davis, Rick Renna, Jim Mills, Bruce Dana

**SUBJECT:** *Pipe Culverts - Pay Item, Plans and Specifications Changes Effective with the July 2008 Letting*

A handwritten signature in black ink, appearing to read "David C. O'Hagan", written over the "FROM:" field.

### **BACKGROUND**

As stated in ESTIMATES BULLETIN 07-03, pipe pay items for storm drains and cross drains have been combined into a single group, at the request of the District Drainage Engineers. The naming convention for "storm sewer" has been changed to "storm drain".

Storm Drains and Cross Drains have the same general requirements including Design Service Life, specifications and joint requirements. Consolidating the two types of pipes will streamline pipe pay items and reduce plan sheets when the Summary of Drainage Structures Sheet columns will not fit on one sheet.

It is anticipated that the FDOT CADD Cell Library will be updated to include these changes in the FDOT 2004 Maintenance Release 5, tentatively scheduled for February 2008. Until Maintenance Release 5 is issued, designers should follow the implementation plan outlined below.

## **IMPLEMENTATION**

**District Design:** Update plans and Summary of Pay Items on applicable projects beginning with the July 2008 letting.

### Update Summary of Pay Items Sheet:

The following pay items will be valid through June 30, 2008:

430-17A-BCC

A=Application

1 (Storm Sewer) SS

2 (Cross Drain) CD

The following new pay items will be effective July 1, 2008:

430-17A-BCC

A= Application

5 (Storm and Cross Drain) S/CD

Update Summary of Drainage Structures Sheet: Plans must be updated beginning with the July 2008 letting to reflect the new consolidation of storm drains and cross drains using either of the following methods.

Method 1 – (See Attachment A)

Modify an existing Summary of Drainage Structures Sheet by

- 1) adding an "\*" next to each of the columns titled "STORM DRAIN OPTIONAL ROUND" and "CROSS DRAIN OPTIONAL ROUND" and
- 2) add the following note under the remarks column on the row with the totals: "\*Quantities of storm drain and cross drain pipes of similar size grouping are combined under the appropriate pay item 430-175-xxx."

Method 2 - (See Attachment B)

Update the Summary of Drainage Structures Sheet in accordance with Attachment B (SDS-1a dated 1/1/08), which will be included in the 2008 PPM release scheduled for January 2008. Designers are encouraged to use the format in this exhibit as soon as practical without adversely impacting production.

## **CONTACT**

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# Method 1 Attachment A

P/F	STR. NO.	STATION	SIDE	DESCRIPTION	BARRELS	PIPE SIZE	PIPE LENGTH	* STORM SEWER OPTIONAL ROUND					* CROSS DRAIN OPTIONAL ROUND			INLETS				DITCH BOTTOM INLETS					MANHOLE				MITERED END SECTIONS				SOD	CONC. CLASS	FORM 625-000-04 ROADWAY DESIGN 01-2000 REMARKS						
								18"	24"	30"	36"	54"	18"	36"	48"	P-5	J-5	P-6	J-6	C	C- MOD	D	D-MOD.	E	P-7	J-7	J-7	SPEC.	18"	24"	30"	54"									
																<10'	<10'	<10'	<10'	<10'	<10'	<10'	<10'	<10'	<10'	<10'	>10'	<10'													
S-83	223+75	RT	DBI, Pipe	/	18"	84	84							/																											
S-84	31+24	RT	DBI, Pipe	/	18"	37								/																											
S-85	31+34	LT	DBI, Pipe	/	24"	77					77								/																						
S-86	224+60	RT	Manhole, Pipe	/	24"	37				37												/																			
S-87	225+00	RT	Inlet, Pipe	/	24"	77				77																															
S-88	225+00	LT	Inlet, Pipe	/	30"	347				347																															
S-89	226+70	RT	EW, Pipe	/	24"	98				98																													2.24	INDEX NO. 250	
S-90	226+70	LT	Inlet, Pipe	/	30"	167				167																												2.24	INDEX NO. 250		
S-91	226+70	LT	EW, Pipe	/	24"	15				15																													2.24	INDEX NO. 250	
S-92	31+35	RT	DBI, Pipe	/	18"	35	35							/																									6		
S-93	31+36	LT	DBI, Pipe	/	18"	68	68							/																									6		
S-94	228+05	RT	Manhole, Pipe	/	18"	42	42															/																		6	
S-95	228+50	RT	EW, Pipe	/	18"	4	4																																2.59	INDEX NO. 282	
S-96	228+50	RT	Inlet, Pipe	/	18"	77	77							/																									6	INDEX NO. 282	
S-97	228+50	LT	Inlet, Pipe	/	24"	177		177						/																										6	INDEX NO. 282
S-98	229+08	LT	DBI, Pipe	/	18"	56	56															/																	6	INDEX NO. 282	
S-99	230+80	RT	Inlet, Pipe	/	18"	77	77							/																										6	INDEX NO. 282
S-100	230+80	LT	Inlet, Pipe	/	18"	170	170							/																										6	INDEX NO. 282
S-101	28+54	RT	DBI, Pipe	/	18"	40	40							/																										6	INDEX NO. 282
S-102	28+54	LT	DBI, Pipe	/	18"	97	97							/																									6	INDEX NO. 282	
S-103	232+80	RT	Inlet, Pipe	/	18"	77	77							/																										6	INDEX NO. 282
S-104	232+80	LT	Inlet, Pipe	/	18"	197	197															/																		6	INDEX NO. 282
S-105	234+00	LT	DBI, Pipe	/	18"	117	117															/																		6	INDEX NO. 282
S-106	235+20	RT	Inlet, Pipe	/	18"	77	77							/																										6	INDEX NO. 282
S-107	235+20	LT	Inlet, Pipe	/	18"	117	117							/																										6	INDEX NO. 282
S-108	237+00	LT	DBI, Pipe	/	18"	177	177															/																		6	INDEX NO. 282
S-109	237+56	LT	DBI, Pipe	/	18"	54	54							/																										6	INDEX NO. 282
S-110	217+89	LT	MES	/	54"																																			34	
S-111	218+69	LT	EW, Pipe	/	54"	125				125																													126	19.70	
S-112	219+29	LT	MES	/	54"																																		34		
<b>SUBTOTALS</b>						Plan Quantity	1603	481	514		125				10	1		6	4				1	1	1												2	261	26.77		
						Final Quantity	5685	1616	946	1570	628	422	377			25	7	5	2	23	11	2	2	5	6	1	1					8	2	2	2					1083	56.81
<b>TOTALS</b>						Plan Quantity	1603	481	514		125				10	1		6	4				1	1	1												2	261	26.77		
						Final Quantity	5685	1616	946	1570	628	422	377			25	7	5	2	23	11	2	2	5	6	1	1					8	2	2	2					1083	56.81

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61B5-23.003, F.A.C.

\* Quantities of storm drain and cross drain pipes of similar size groupings are combined under the appropriate pay item 430-175-xxx

REVISIONS						STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SUMMARY OF DRAINAGE STRUCTURES			SHEET NO.  21
DATE	BY	DESCRIPTION			DATE	BY	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	

Modified Summary of Drainage Structures Sheet  
For use on Projects with a July 2008 or later letting

