

**2001 Insertable Sheet List  
For Use With The 2001 Imperial Road and Bridge Standards  
July 2005**

The following is a complete list of special design **IMPERIAL** insertable sheets that will be used with the 2001 Road and Bridge Standards. These sheets have been loaded on Falcon DMS for VDOT personnel and on the FTP server for the consultant community.

<b>Falcon Location:</b>	<u>Imperial</u>		<u>Metric</u>
PPMS#	eng-ser	PPMS#	eng-ser
Division	insert	Division	minsert

**FTP Location:** Imperial path download/insertable-sheets/imperial-inserts  
Metric path download/insertable-sheets/metric-inserts

The information below shows the file name as it is on the system, the title of the Insertable Sheet, the description of the 7-05 changes, the applicable Standard, and the date the file was revised by Engineering Services. The new/revised sheets and descriptions of the 7-05 changes are in bold. **Note that the new/revised Insertable Sheets will be applicable to projects going to Advertisement in February 2006.**

<u>NUMBER</u>	<u>TITLE (INCL. DESCRIPT. OF 7-05 CHANGES)</u>	<u>STD</u>	<u>DATE</u>
a2.dgn	HYDROLOGIC DATA SHEET	N/A	Rev. 9-19-87
a4.dgn	ROADSIDE DEVELOPMENT	N/A	Rev. 7-03
a5.dgn	EROSION CONTROL SUMMARY	N/A	Rev. 7-02
a6.dgn	TEMPORARY SEDIMENT TRAP DETAIL SHEET	N/A	New 6-01
a9.dgn	PRELIMINARY RIGHT OF WAY DATA SHEET	N/A	Rev. 6-97
a14.dgn	REVISION DATA SHEET	N/A	Rev. 9-23-93
a20.dgn	STANDARD MANHOLE FRAME AND COVER	MH-1	New 7-02
a36.dgn	RADIAL OFFSET / REVERSE CURVE DATA	N/A	Rev. 9-23-93
a41.dgn	UNDERGROUND UTILITY TEST HOLE INFORMATION	N/A	Rev. 1-95
a47.dgn	GR-FOA-3 W-BEAM GUARDRAIL INSTALLATION CRITERIA	N/A	Rev. 7-98
a55.dgn	STANDARD SIDEWALK UNDERDRAIN	UD-3	New 7-03
a57.dgn	STANDARD ENDWALL FOR PIPE UNDERDRAIN	EW-12	Rev. 7-04
<b>a59.dgn</b>	<b>CG-12 DETECTABLE WARNING SURFACE (ACCESS FOR MOBILITY IMPAIRMENTS) Update detectable warning (truncated domes) to meet new ADA guidelines.</b>	<b>CG-12</b>	<b>Rev. 7-05</b>
<b>a62.dgn</b>	<b>TYPICAL CONCRETE SAFETY SLAB</b>	<b>SL-1</b>	<b>New 7-05</b>

**Revised notes to remove language that no additional compensation will be provided for additional safety slabs needed for precast structures.**

a65_1.dgn	W-BEAM GUARDRAIL - FIXED OBJECT ATTACHMENT	GR-FOA-1	New 7-01
a65_2.dgn	W-BEAM GUARDRAIL - FIXED OBJECT ATTACHMENT	GR-FOA-1	New 7-01
a66_1.dgn	W-BEAM GUARDRAIL - FIXED OBJECT ATTACHMENT	GR-FOA-2	New 7-01
a66_2.dgn	W-BEAM GUARDRAIL - FIXED OBJECT ATTACHMENT	GR-FOA-2	New 7-01
a68.dgn	STANDARD HANDRAIL	HR-1	Rev. 7-04
<b>a70.dgn</b>	<b>SOIL STABILISATION MAT DITCH INSTALLATION TYPE A OR B Revised language in note for use of soil stabilization mat from “shall” to “may” and corrected dimension on terminal diagram.</b>	<b>EC-3</b>	<b>New 7-05</b>
a71.dgn	GRADING DIAGRAM AND SUMMARY	N/A	Rev. 5-99
a73.dgn	TYPICAL METHOD OF INSTALLATION FOR PIPE ON FILL SLOPE	N/A	Rev. 7-01
a78.dgn	PRIVATE ENTRANCES	CG-9	New 1-04
a80.dgn	STANDARD GROUNDWATER UNDERDRAIN STANDARD UNDERDRAIN FOR USE WITH GRASS MEDIANS	UD-1 UD-2	New 7-03
a81.dgn	STANDARD PAVEMENT EDGEDRAIN	UD-4	Rev. 1-04
a83dgn	STANDARD RETROFIT EDGEDRAIN	UD-7	New 7-03
a84.dgn	STANDARD RETROFIT EDGEDRAIN	UD-7	New 7-03
a86.dgn	PIPE BEDDING AND BACKFILL	PB-1	New 7-04
<b>a87.dgn</b>	<b>STANDARD BLOCKED-OUT W BEAM GUARDRAIL(STRONG POST SYSTEM) POST AND BLOCKOUT DETAILS Modified guardrail height tolerance.</b>	<b>GR-2,2A</b>	<b>Rev. 7-05</b>
a88.dgn	GUARDRAIL AT LOW FILL CULVERTS	GR-10	New 1-04
a89.dgn	BRAKEAWAY CABLE TERMINAL 4' FLARE	GR-7	Rev. 7-04
a91.dgn	STANDARD W BEAM GUARDRAIL (WEAK POST SYSTEM)	GR-8, 8A, 8B, 8C	Rev. 1-04
<b>a92.dgn</b>	<b>W-BEAM GUARDRAIL INSTALLATION</b>	<b>GR-INS</b>	<b>Rev. 7-05</b>

**CRITERIA**

**20' minimum radius changed to 5' minimum  
Added note stating radial not to be used in place  
of GR-6, 7, or 9.**

a93.dgn	W BEAM GUARDRAIL AND MEDIAN BARRIER INSTALLATION CRITERIA	GR-INS	Rev. 1-04
a94.dgn	BLOCKED OUT W-BEAM BARRIER	MB-3	New 1-04
<b>a95.dgn</b>	<b>STANDARD W BEAM MEDIAN BARRIER (WEAK POST SYSTEM) Removed structure mounted barrier.</b>	<b>MB-5</b>	<b>Rev. 7-05</b>
a96.dgn	CONCRETE MEDIAN BARRIER (TALL WALL)	MB-12A,B,C	Rev. 7-04
a97.dgn	SOLID PAVING UNITS (SIDEWALK & CROSSWALK)	N/A	Rev. 7-04
<b>a98.dgn</b>	<b>CONCRETE MEDIAN BARRIER Move delineators to the top of barrier.</b>	<b>MB-7D,E,F MB-8A</b>	<b>Rev. 7-05</b>
a100.dgn	CONCRETE BARRIER INLET (WITH MB-8A)	DI-10J,K,L	Rev. 7-02
a102.dgn	CONCRETE MEDIAN BARRIER DROP INLET	DI-14D, 14E, 14F	Rev. 7-01
<b>a103.dgn</b>	<b>PRECAST TRAFFIC BARRIER SERVICE CONCRETE WITH POSITIVE CONNECTION Added note concerning dynamic deflection. Removed C-channel temporary installation.</b>	<b>MB-7D PC</b>	<b>Rev. 7-05</b>
a104.dgn	CONCRETE MEDIAN BARRIER (TALL WALL TYPE I, II, OR III)	MB-13	New 1-04
<b>a105_1.dgn</b>	<b>PRECAST CONCRETE MEDIAN BARRIER POSITIVE CONNECTION OPTIONS Added note concerning dynamic deflection of barrier connections. Sheets 2 of 5 and 3 of 5</b>	<b>MB-INS</b>	<b>Rev. 7-05</b>
<b>a105_2.dgn</b>	<b>PRECAST CONCRETE MEDIAN BARRIER POSITIVE CONNECTION OPTIONS Added note concerning dynamic deflection of barrier connections. Sheet 1 of 5</b>	<b>MB-INS</b>	<b>New 7-05</b>
a106.dgn	WETLAND COMPENSATION PLANT LIST, SUMMARY AND NOTES	N/A	Rev. 10-99
a108.dgn	COMMERCIAL ENTRANCE	CG-13	Rev. 1-04
a120.dgn	PIPE BEDDING AND BACKFILL	PB-1	New 1-04
a130.dgn	FLARED END-SECTION FOR 23" X 14" TO	ES-1A	New 7-01

53" X 34" ELLIPTICAL CONCRETE PIPE  
CULVERTS

a132.dgn	TERMINAL TREATMENT FOR W BEAM GUARDRAIL	GR-6	Rev. 7-04
a133.dgn	CABLE GUARDRAIL	GR-3	Rev. 7-04
a136.dgn	SITE PREPARATION FOR GR-7 (Sheet 1 of 2)	GR-SP	New 7-04
a140.dgn	JUNCTION BOX	JB-1B, 2B, 3B, 4B, 5B	New 7-01
a141.dgn	JUNCTION BOX	JB-1C, 2C, 3C, 4C, 5C	New 7-01
a142.dgn	FLARED END-SECTION FOR 12" – 60" CONCRETE PIPE CULVERTS AND 12" – 60" CORRUGATED PIPE CULVERTS	ES-1, ES-2	New 7-01
a143.dgn	STANDARD SPRING BOX PRECAST SPRING BOX	SB-1 SB-1 PC	Rev. 3-03
a144.dgn	STANDARD CONCR. STEPS FOR 1½:1 SLOPE STANDARD CONCR. STEPS FOR 2:1 SLOPE	S-1 S-2	New 7-02
<b>a145.dgn</b>	<b>TRAILING END TERMINAL TREATMENT</b> <b>Correct detail name for anchor cable and anchor</b> <b>plate.</b>	<b>GR-11</b>	<b>Rev. 7-05</b>
a146.dgn	W BEAM GUARDRAIL INSTALLATION CRITERIA	GR-INS	Rev. 3-03
a148.dgn	STANDARD PRECAST TOP UNITS	TDI-2, TDI-3	New 3-03
a149.dgn	STANDARD MAILBOX	RFD-1	Rev. 7-04
a150.dgn	PLAIN AND REINFORCED CONCRETE PAVEMENT SHOWING REINFORCEMENT, LONGITUDINAL AND TRANSVERSE JOINTS	PR-2	New 7-03
a151.dgn	PIPE BEDDING AND BACKFILL	PB-1	New 1-04
a152.dgn	STANDARD FENCE AND GROUNDING	FE-CL FE-6	Rev. 7-04
<b>a153.dgn</b>	<b>STANDARD CURB DROP INLET</b> <b>Revised angle of Type A nosing from 54°</b> <b>back to original value of 68°30'.</b>	<b>DI-2A,B,C</b> <b>DI -2D,E,F</b>	<b>Rev. 7-05</b>
<b>a154.dgn</b>	<b>TYPICAL DETAILS FOR OVERHEAD</b> <b>SIGN STRUCTURES</b> <b>Revised anchor bolts and conduit.</b>	<b>OSS-1</b>	<b>Rev. 7-05</b>
a155.dgn	TYPICAL DETAILS FOR OVERHEAD	OSS-1	New 5-04

## SIGN STRUCTURES

<b>a156.dgn</b>	<b>TYPICAL DETAILS FOR SIGN STRUCTURES</b> Revised the sign panel fastening methods.	<b>SSP-VA</b> <b>SSP-VIA</b>	<b>Rev. 7-05</b>
<b>a157.dgn</b>	<b>TYPICAL DETAILS FOR OVERHEAD SIGN STRUCTURES AND SIGN PANEL DESIGN</b> Revised the sign panel fastening methods.	<b>OSS-1</b> <b>SPD-1</b>	<b>Rev. 7-05</b>
a158.dgn	15" PIPE TEE SECTION DROP INLET	DI-9	New 7-04
a159.dgn	STANDARD SOLID CONCRETE RAISED MEDIAN STRIP	MS-1 MS-1A	New 7-04
a160.dgn	STANDARD FENCE WOVEN WIRE FABRIC STANDARD FENCE BARBED WIRE	FE-W1,W2 FE-B	New 7-04
a161.dgn	CONCRETE GRAVITY RETAINING WALLS	RW-3	New 7-04
<b>a162.dgn</b>	<b>SANITARY SEWER MANHOLE WATER AND SANITARY SEWER FACILITIES</b> Revised Notes.	<b>SMH-1</b>	<b>New 7-05</b>
<b>a163.dgn</b>	<b>MULTIGRATE DROP INLET</b> Replaced curved grate with a flat grate. Sheet 2 of 3	<b>DI-12, 12A</b>	<b>New 7-05</b>
<b>a164.dgn</b>	<b>MULTIGRATE DROP INLET</b> Replaced curved grate with a flat grate. Sheets 1 of 2 and 2 of 2	<b>DI-12B, 12C</b>	<b>New 7-05</b>
<b>a165.dgn</b>	<b>SHOULDER SLOT INLET</b> Added note that face of guardrail and face of curb shall be flush. Sheet 2 of 2	<b>DI-13</b>	<b>New 7-05</b>
<b>a166_1.dgn</b>	<b>ALLOWABLE PIPE CRITERIA</b> Updated tables to match drainage manual. Sheets 1 and 2	<b>PC-1</b>	<b>New 7-05</b>
<b>a166_2.dgn</b>	<b>ALLOWABLE PIPE CRITERIA</b> Updated tables to match drainage manual. Sheets 3 and 4	<b>PC-1</b>	<b>New 7-05</b>
<b>a166_3.dgn</b>	<b>ALLOWABLE PIPE CRITERIA</b> Updated tables to match drainage manual. Sheets 5 and 6	<b>PC-1</b>	<b>New 7-05</b>
<b>a166_4.dgn</b>	<b>ALLOWABLE PIPE CRITERIA</b> Updated tables to match drainage manual. Sheets 7 and 8	<b>PC-1</b>	<b>New 7-05</b>
<b>a166_5.dgn</b>	<b>ALLOWABLE PIPE CRITERIA</b>	<b>PC-1</b>	<b>New 7-05</b>

	<b>Updated tables to match drainage manual. Sheets 9 and 10</b>		
<b>a166_6.dgn</b>	<b>ALLOWABLE PIPE CRITERIA</b> Updated tables to match drainage manual. Sheets 11 and 12	<b>PC-1</b>	<b>New 7-05</b>
<b>a166_7.dgn</b>	<b>ALLOWABLE PIPE CRITERIA</b> Updated tables to match drainage manual. Sheets 13 and 14	<b>PC-1</b>	<b>New 7-05</b>
<b>a166_8.dgn</b>	<b>ALLOWABLE PIPE CRITERIA</b> Updated tables to match drainage manual. Sheets 15 and 16	<b>PC-1</b>	<b>New 7-05</b>
<b>a166_9.dgn</b>	<b>ALLOWABLE PIPE CRITERIA</b> Updated tables to match drainage manual. Sheets 17 and 18	<b>PC-1</b>	<b>New 7-05</b>
<b>a167.dgn</b>	<b>TYPICAL BRIDGE PARAPET SIGN SIGNAL POLE FOUNDATION</b> Revised the anchor bolts.	<b>BSS-1 PF-1</b>	<b>New 7-05</b>
<b>a168.dgn</b>	<b>TYPICAL PAVEMENT MARKINGS FOR BICYCLE LANE</b> <b>TYPICAL PAVEMENT MARKING DETAILS</b> Revised the pavement message marking and skip line spacing.	<b>PM-6 PM-1</b>	<b>New 7-05</b>
<b>a169.dgn</b>	<b>PEDESTRIAN SIGNAL INDICATION DETAILS</b> All new pedestrian signals.	<b>S-5,6,7,8,9</b>	<b>New 7-05</b>
isd414_1.dgn	TEMPORARY SILT FENCE AND FILTER BARRIER	EC-5	New 3-03
isd414_2.dgn	DROP INLET SILT TRAP (TYPE A AND B)	EC-6	Rev. 3-03
isd414_4.dgn	TEMPORARY EROSION AND SILTATION CONTROL	EC-INS	Rev. 7-04
isd564a.dgn	DITCH FLUME CONNECTOR	PG-7	New 7-02
isd570.dgn	STANDARD PAVED DITCHES	PG-2A PG-3	Rev. 7-04
isd1276a.dgn	TRAFFIC BARRIER SERVICE SINGLE FACE PARAPET (FOR SINGLE FACE TEMPORAY INSTALLATION ON BRIDGE DECK EXTERIOR)	MB-10A	New 7-02
isd1482.dgn	SPECIAL DESIGN SLOPE DRAIN	N/A	Rev. 12-99
isd1588.dgn	LOW FLOW DIVERSION FOR MULTIPLE LINE CULVERT INSTALLATIONS	N/A	Rev. 9-94
isd1722a.dgn	RUMBLE STRIPS	RS-1	New 11-02

isd2045.dgn	SPECIAL DESIGN CONCRETE SLAB END TREATMENT	N/A	Rev. 10-10-97
isd2063.dgn	BUTTING TRAFFIC BARRIER SERVICE TO SINGLE FACE PARAPET SERVICE	MB-INS	New 7-02
isd2209.dgn	STORMWATER MANAGEMENT (SWM) DETAILS	SWM-DR	Rev. 3-03
isd2216.dgn	STORMWATER MANAGEMENT (SWM) DETAILS	SWM-1	Rev. 3-03
isd2216A.dgn	STORMWATER MANAGEMENT (SWM) DETAILS	SWM-DR	Rev. 3-03
<b>isd2390.dgn</b>	<b>ALT. BREAKAWAY CABLE TERMINAL NO FLARE</b> <b>Removed standard sheet MB-5 from insertable sheet. See insertable sheet a95 for MB-5.</b>	<b>GR-9</b>	<b>Rev. 7-05</b>
isd2623.dgn	CONTINUOUSLY REINFORCED CONCRETE PAVEMENT	PR-6	Rev. 1-04
isd2724.dgn	CONTINUOUSLY REINFORCED CONCRETE PAVEMENT	PR-5	Rev. 1-04
isd2761.dgn	CONTINUOUSLY REINFORCED CONCRETE PAVEMENT	PR-7	Rev. 1-04
isd2861.dgn	CONTINUOUSLY REINFORCED CONCRETE PAVEMENT	PR-8	Rev. 1-04
isd2862.dgn	CONTINUOUSLY REINFORCED CONCRETE PAVEMENT	PR-9	Rev. 1-04
isd2944.dgn	SINK HOLE DETAILS	N/A	New 11-02
isd2945.dgn	MODIFIED PG-2A AND MODIFIED PG-5	N/A	New 11-02
isd86.dgn	86 CADD LEVEL STRUCTURE SHEET	N/A	New 1-96
isd95.dgn	95 CADD LEVEL STRUCTURE SHEET Revised survey level structure.	N/A	Rev. 7-04
<b>iiinsertr.doc</b>	<b>Current Insertable Sheet List</b>		<b>Rev. 7-05</b>