

## DETAIL SHEETS – MICROSTATION (ENHANCED)

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## Overview

Development of a Utility Plan detail sheet in the Microstation Enhanced workspace.

### Process Provenance

- Date of development: N/A
- Revision date: N/A
- Application/Tool(s): *MicroStation V8i SS10 / Power GEOPAK V8i SS10*
- Version(s): N/A
- Environment(s): *OpenRoads (Enhanced) Workspace*
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## Statement of Need

This process develops a sheet that is a part of the Utility plans which play a vital role in moving MDT Highway projects toward completion.

# Process Description and Examples

## Detail Sheets Creation

### Procedure








#### 47-2.8.1 Detail Sheet 1 – No Maps (Enhanced Workspace)

1. Download the file from the RD workgroup in DMS that contains the details, usually named 1234000RDDDET001. Copy this file to the directory c:\dgn\ref for referencing.
2. Create a new UT Detail sheet from the UT Seed files found at ..\CaddStdOR\SEED\UT\_Plans (ex. 1234000UTDET001.DGN).
3. In 'Active file' 'View Attributes', ensure Level Overrides are turned on.
4. Attach RD Detail Sheet as a reference.
  - Within the Reference dialog, choose "Tools", "Attach"
  - Within the Attach Reference dialog, select the RD Detail Sheet, then choose "Open".
  - Insert RDDDET-1 as the logical name.
  - Select "Coincident – World" from the orientation options. Adjust Nested Attachments option to "Copy Attachments", then choose "OK".
  - Adjust the RDSHEET.REF model attachment if needed. Select each duplicated occurrence of RDSHEET.REF but leave "SHT", then choose "Tools", "Detach".
  - Check reference prefixes and fix as needed or use the reference macro.
5. Turn off sheet labels and designed by labels from the RD Detail Sheet, typically level "P\_Sheets\_Plan\_Label\_Sheet\_Text" and "S\_SHEETS\_DesignBlock\_Data\_Fields". If the labels are on a different level, adjust accordingly or mask the reference file as outlined below.
  - Select the pink clip boundary around the bottom of the first sheet to create a fence. Within the Reference dialog, select the RDDDET-1 Road Design detail sheet reference file, then choose "Tools", "Clip Boundary" then accept the pink shape outlining the plan data fields in sheet 1.
  - Repeat for sheet 2 and sheet 3 as needed.

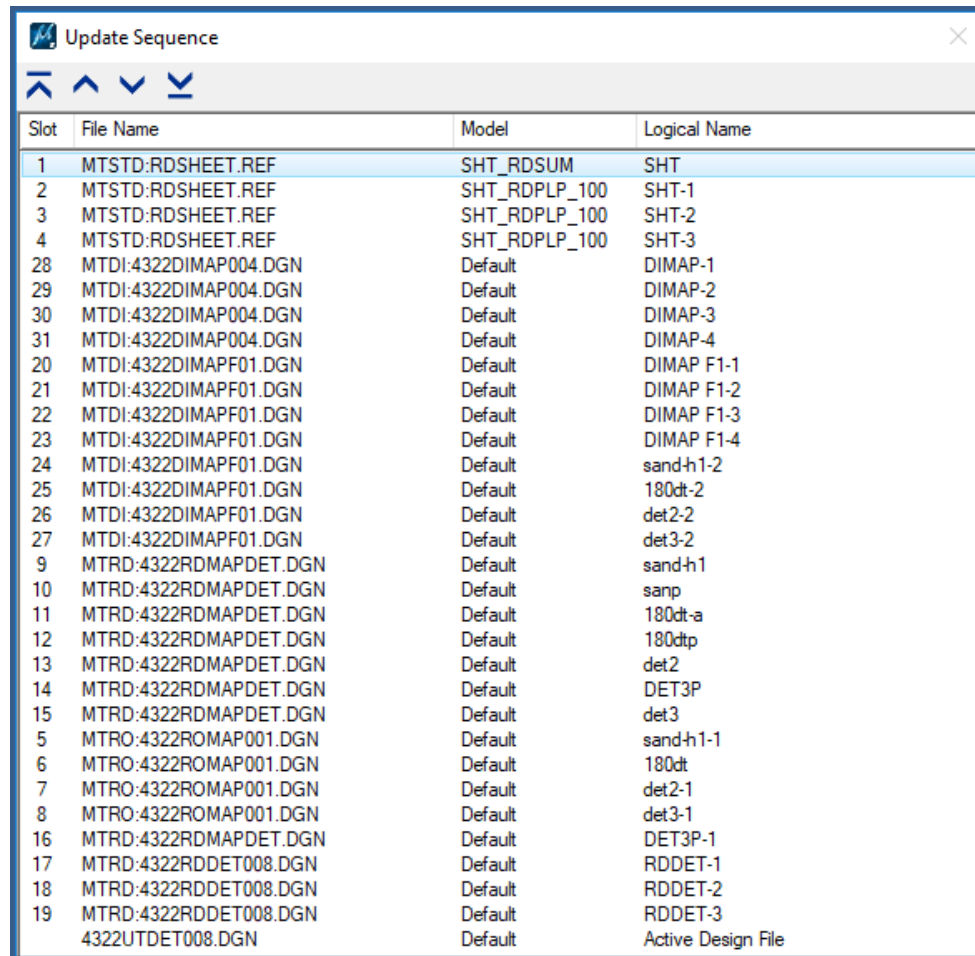
6. Adjust drawing scale as necessary for line style and text annotation scale.
7. In 'Reference' 'Settings' 'Level Manager', set the colors to 0, line weight and symbology override to off for all files except RDSHEET.ref profile grids which should be color 208.

#### 47-2.8.2 Detail Sheet 2 – With Maps (Enhanced Workspace)

8. Within the Reference dialog, double click the SHT reference file and change reference model to SHT\_RDSUM if the profile is shown on the entire bottom portion of the page and no detail title block is present.
9. Adjust reference levels from RDSHEET.ref to display necessary profile grids only and turn off all other levels in the duplicated RDSHEET.ref reference file.
10. In 'Reference' 'Settings' 'Level Manager', choose the RD profile reference and set all style and weight attributes to off, color attributes to 0 (white).
11. In 'Reference' 'Settings' 'Level Display', choose the RDMAP and/or other MAP files as necessary and turn on levels showing proposed construction items.
  - Set style, weight attributes to off and color to 0 (white).
12. In 'Reference' 'Settings' 'Level Display', choose the DIMAP and/or other MAP files as necessary and turn on levels showing the general topography.
  - Set style, weight attributes to off and color to 80 (gray).
13. In 'Reference' 'Settings' 'Level Display', choose the UTMAP and/or UTSUE files as necessary and turn on levels showing the existing utilities.
  - Set the line width weight and symbology override to off and the color symbology as follows:

	Water levels	color 1
	Sanitary sewer levels	color 2
	Power levels	color 3
	TV levels	color 5
	Communication levels	color 54
	Gas levels	color 56
	Drainage levels	color 0

14. In 'Reference' 'Settings' 'Update Sequence', change the update sequence similar to the following:



Slot	File Name	Model	Logical Name
1	MTSTD:RDSHEET.REF	SHT_RDSUM	SHT
2	MTSTD:RDSHEET.REF	SHT_RDPLP_100	SHT-1
3	MTSTD:RDSHEET.REF	SHT_RDPLP_100	SHT-2
4	MTSTD:RDSHEET.REF	SHT_RDPLP_100	SHT-3
28	MTDI:4322DIMAP004.DGN	Default	DIMAP-1
29	MTDI:4322DIMAP004.DGN	Default	DIMAP-2
30	MTDI:4322DIMAP004.DGN	Default	DIMAP-3
31	MTDI:4322DIMAP004.DGN	Default	DIMAP-4
20	MTDI:4322DIMAPF01.DGN	Default	DIMAP F1-1
21	MTDI:4322DIMAPF01.DGN	Default	DIMAP F1-2
22	MTDI:4322DIMAPF01.DGN	Default	DIMAP F1-3
23	MTDI:4322DIMAPF01.DGN	Default	DIMAP F1-4
24	MTDI:4322DIMAPF01.DGN	Default	sand-h1-2
25	MTDI:4322DIMAPF01.DGN	Default	180dt-2
26	MTDI:4322DIMAPF01.DGN	Default	det2-2
27	MTDI:4322DIMAPF01.DGN	Default	det3-2
9	MTRD:4322RDMAPDET.DGN	Default	sand-h1
10	MTRD:4322RDMAPDET.DGN	Default	sanp
11	MTRD:4322RDMAPDET.DGN	Default	180dt-a
12	MTRD:4322RDMAPDET.DGN	Default	180dtp
13	MTRD:4322RDMAPDET.DGN	Default	det2
14	MTRD:4322RDMAPDET.DGN	Default	DET3P
15	MTRD:4322RDMAPDET.DGN	Default	det3
5	MTRO:4322ROMAP001.DGN	Default	sand-h1-1
6	MTRO:4322ROMAP001.DGN	Default	180dt
7	MTRO:4322ROMAP001.DGN	Default	det2-1
8	MTRO:4322ROMAP001.DGN	Default	det3-1
16	MTRD:4322RDMAPDET.DGN	Default	DET3P-1
17	MTRD:4322RDEDET008.DGN	Default	RDEDET-1
18	MTRD:4322RDEDET008.DGN	Default	RDEDET-2
19	MTRD:4322RDEDET008.DGN	Default	RDEDET-3
	4322UTDET008.DGN	Default	Active Design File