

3.4.3 Public Architecture

The Public Architecture script is used to extract floorplan linework for public areas into a single feature class for public use. s from the AVM CAD Files for each building and level and convert it to a single feature in the PROD Geodatabase. The following is a list of CAD Layers that are for public use.

Table 3: CAD Layer Name		
A-DOOR-FRMG	E-FIRE-ALRM	A-HRAL
A-DOOR-PANL	M-EQPM	S-BEAM
A-DOOR-SWNG	M-ESCA	S-BRCG
A-FLOR-OTLN	M-EVTR	A-HRAL
A-GLAZ	P-EQPM	I-FURN
A-WALL-EXTR	S-COLS	S-STRS-TRED
A-WALL-INTR	S-STRS-RAIL	

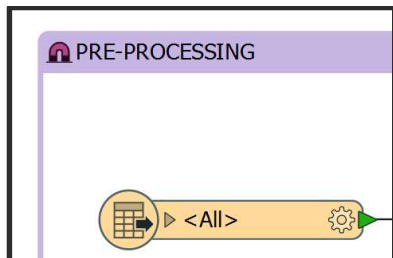
- A. **Input** – The input for Public Architecture script is multiple CAD Files where the AVM CAD Folder is located followed by ***ARCH.dwg:

[\\<FolderPath>***ARCH.dwg](#)

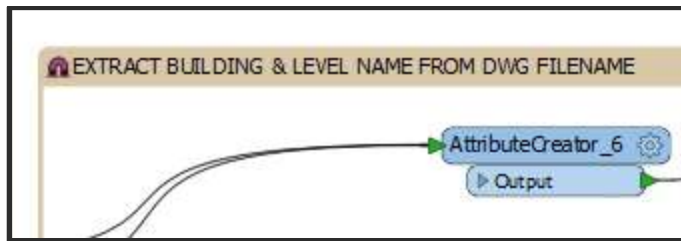


- B. **Transformers** (listed in processing order)

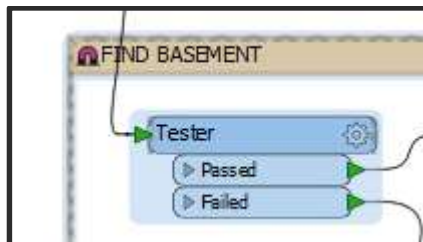
- i. Pre-Processing Transformer performs selects only layers needed for the Public Architecture feature, validates the geometry of those features and then simplifies and cleans the data for better display.



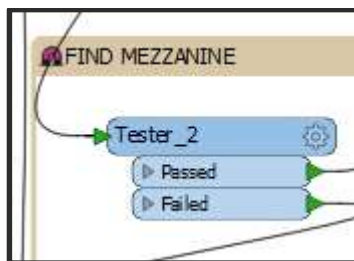
- ii. Extract Building & Level Name from DWG Filename Transformer reads the filename that CAD Features are coming from and adds them as an attribute to the feature. This section also populates Feature Type attribute based on CAD Layer Name.



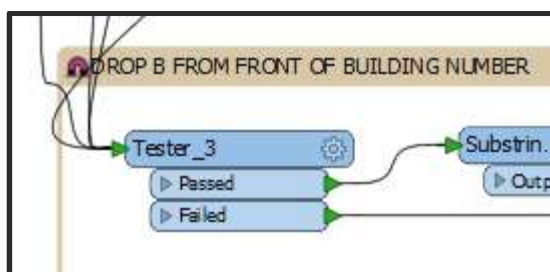
- iii. Find Basement Transformer identifies basement level features in order to populate level name and ordinal value correctly (Other Levels have a number value).



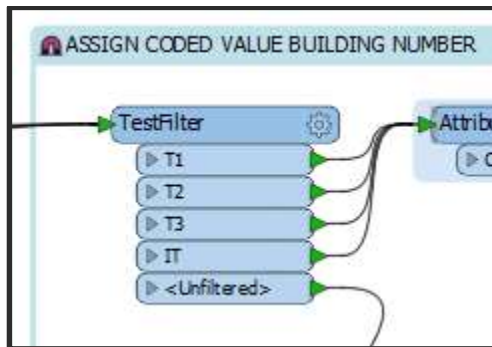
- iv. Find Mezzanine Transformer identifies mezzanine level features in order to populate level name and ordinal value correctly (Other Levels have a number value).



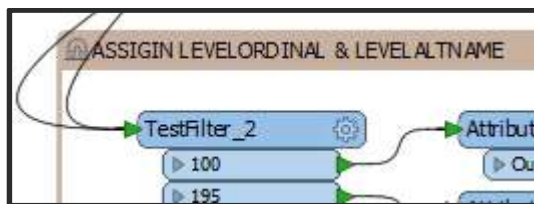
- v. Drop B From Front of Building Number Transformer removes the leading B from the Building number populated earlier from the file name.



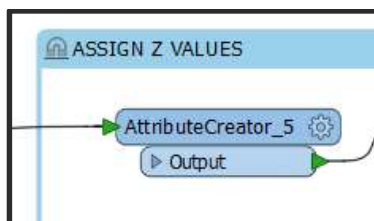
- vi. Assign Coded Value Building Number Transformer converts Terminal Building Names there coded building number



- vii. Assign LevelOrdinal & LevelALTName Transformer populates the Level Ordinal and Level Alternate name based on pre-determined values.



- viii. Assign Z Values Transformer converts the ordinal value as the geometry Z value.



- C. **Output** - The output for the Floorplan script is the SDE.Architectural_Data feature in the PROD Geodatabase.

