CIM MODEL REQUIREMENTS:
PROJECT NAME/ID

ELEMENT	FORMAT	LOA-CD	LOD-CD	PHASE	SCHEDULE
R/W and Environmental Areas					
R/W-Proposed	DGN/DWG	0.01'	2D		
Easements-Proposed	DGN/DWG	0.01'	2D		
Fences-Proposed	DGN/DWG	<0.06'	2D		
Wetlands-Located/Surveyed-Existing	DGN/DWG	<0.06'	2D		
Non-roadway Surfaces					
Surfaces-Existing	DGN/DWG/XML	<0.06'	3D		
Grading/Non-roadway Surfaces-Proposed	DGN/DWG/XML	<0.06'	3D		
Cut/Fill Areas-Isopachs-Proposed	DGN/DWG	<0.06'	2D		
Longitudinal Breaklines /Surface Points	DGN/DWG	<0.06'	3D		
Slope Intercepts/Surface Limits	DGN/DWG	<0.06'	2D		
Roadways/Roadway Features Surfaces-Proposed					
Roadway Pavement-Top Surfaces-Proposed	DGN/DWG/XML	<0.02'	3D		
Roadway Pavement-Base Course Surfaces-Proposed	DGN/DWG/XML	<0.06'	3D		
Roadway Pavement-Subgrade Datum Surfaces-Proposed	DGN/DWG/XML	<0.06'	3D		
Roadway Curb and Gutter -Proposed	DGN/DWG/XML	<0.02'	3D		
Roadway Barriers -Proposed	DGN/DWG/XML	<0.06'	3D		
Roadway Pavement Marking -Existing	DGN/DWG	<0.10'	2D		
Roadway Pavement Marking-Proposed	DGN/DWG	<0.10'	2D		
Roadway Stationing-Proposed	DGN/DWG	0.01'	2D		
Roadway Alignments /Reference Lines-Proposed	DGN/DWG	0.01'	2D		
Superelevation Transition Stations-Proposed	CSV	0.01'	N/A		
Drainage-Storm Sewer – Proposed					
Drainage Inlets/MHs/Outfalls/ Pipes/Culverts/Ponds	DGN/DWG	<0.06'	3D		

Bridges-Proposed					
Stone Base	DGN/DWG/XML	<0.06'	3D		
Piles	DGN/DWG/XML	<0.06'	3D		
Footings	DGN/DWG/XML	<0.06'	3D		
Abutments	DGN/DWG/XML	<0.06'	3D		
Piers	DGN/DWG/XML	<0.02'	3D		
CI Beams	DGN/DWG/XML	<0.02'	3D		
Seats	DGN/DWG/XML	<0.02'	3D		
Deck Including Fillets	DGN/DWG/XML	<0.02'	3D		
Light Blisters	DGN/DWG/XML	<0.06'	3D		
Parapet Walls	DGN/DWG/XML	<0.06'	3D		
Retaining Walls-Proposed					
MSE-Proposed					
Straps	DGN/DWG/XML	<0.06'	3D		
Footings	DGN/DWG/XML	<0.06'	3D		
Top	DGN/DWG/XML	<0.06'	3D		
Coping	DGN/DWG/XML	<0.06'	3D		
Cast-in-Place-Proposed					
Stone	DGN/DWG/XML	<0.06'	3D		
Piles	DGN/DWG/XML	<0.06'	3D		
Top of Footings	DGN/DWG/XML	<0.06'	3D		
Face of Wall	DGN/DWG/XML	<0.06'	3D		
Coping	DGN/DWG/XML	<0.06'	3D		
Pile and Lagging-Proposed					
CI Piles at Top and Bottom	DGN/DWG/XML	<0.06'	3D		
Face of Wall/Face of Piles	DGN/DWG/XML	<0.06'	3D		
Bottom of Wall	DGN/DWG/XML	<0.06'	3D		
Top of Wall/Coping	DGN/DWG/XML	<0.06'	3D		
Face of Piles	DGN/DWG/XML	<0.06'	3D		
Top and Toe of Sheets	DGN/DWG/XML	<0.06'	3D		
Sign Bridges-Proposed					
Footings	DGN/DWG/XML	<0.06'	3D		
Piles	DGN/DWG/XML	<0.06'	3D		
Structure	DGN/DWG/XML	<0.06'	3D		

Other Structures-Proposed					
Noise Walls	DGN/DWG/XML	<0.06'	3D		
Screening Fences	DGN/DWG/XML	<0.06'	3D		
Tunnels-Utility	DGN/DWG/XML	<0.06'	3D		
Structures-Existing					
Bridges	DWG/XML	<0.06'	3D		
Walls	DWG/XML	<0.06'	3D		
Sign Bridges/Tunnels/Other	DWG/XML	<0.06'	3D		
Special Foundations-Proposed					
Drilled Shafts	DGN/DWG/XML	<0.06'	3D		
Driven Piles	DGN/DWG/XML	<0.06'	3D		
Bored Piles	DGN/DWG/XML	<0.06'	3D		
Caissons	DGN/DWG/XML	<0.06'	3D		
Special Foundation Walls-Proposed					
Foundation Anchors	DGN/DWG/XML	<0.06'	3D		
Underpinning	DGN/DWG/XML	<0.06'	3D		
Pile Caps	DGN/DWG/XML	<0.06'	3D		
Grade Beams	DGN/DWG/XML	<0.06'	3D		
Tiebacks	DGN/DWG/XML	<0.06'	3D		
Lighting-Proposed					
Poles/Masts/Bases	DGN/DWG	<0.06'	3D		
Conduit/Cabinets/Pull Boxes	DGN/DWG	<0.06'	3D		
FTMS-Proposed					
DMS/CMS	DGN/DWG	<0.06'	2D		
FTMS Fiber Optic lines	DGN/DWG	<0.06'	3D		
FTMS Huts/Cabinets	DGN/DWG	<0.06'	2D		
Signs-Proposed					
Signs-Type 1	DGN/DWG	<0.06'	2D		
Signs-Type 2	DGN/DWG	<0.06'	2D		
Traffic Signals-Proposed					
Poles/Heads/Bases	DGN/DWG	<0.06'	3D		
Conduit/Pull Boxes	DGN/DWG	<0.06'	3D		
Water Main Proposed					
Pipes	DGN/DWG	<0.06'	3D		
Hydrants/Valves/Fittings/ Standpipes	DGN/DWG	<0.06'	3D		
Sanitary Sewer-Proposed					
Pipes	DGN/DWG	<0.06'	3D		
Manholes	DGN/DWG	<0.06'	3D		

Utilities - Existing/Relocated/Abandoned *					
Drainage/Storm Sewer	DGN/DWG	<0.10'	3D		
Water Main	DGN/DWG	<0.10'	3D		
Sanitary Sewer	DGN/DWG	<0.10'	3D		
Lighting	DGN/DWG	<1.5' *	2D		
FTMS	DGN/DWG	<1.5' *	2D		
Traffic Control	DGN/DWG	<1.5' *	2D		

*2D and 3D existing/proposed/abandoned utilities are approximate and other utilities may not be shown. 2D and 3D existing/proposed/abandoned utilities are generated from a variety of sources and formats including: from plans with line and grade, from plans without line and grade, from surveys, from Digger's Hotlining, from as-builts, from municipality records, from pot holing/hydrovac, and from RD/EMI/GPR/SPAR) and are provided in the model, for purposes of information only, requiring confirmation from Digger's Hotline and Utility Providers.

Other Utilities - Existing/Relocated/Abandoned *					
Gas	DGN/DWG	<1.5' *	2D		
Steam	DGN/DWG	<1.5' *	2D		
Electrical	DGN/DWG	<1.5' *	2D		
Communications	DGN/DWG	<1.5' *	2D		
Fiber Optic	DGN/DWG	<1.5' *	2D		
Telephone/Data	DGN/DWG	<1.5' *	2D		
CATV/Data	DGN/DWG	<1.5' *	2D		

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LOA = Level of Accuracy
LOD = Level of Development (2D/3D/4D/5D/xD) – 3D delivery would also include 2D
LOD w/Metadata included

For Checklist:
X = Completed
IP = In-progress
* = Incomplete (not in 3D)

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