Walk-in Slide: AU 2014 Social Media Feed

1. Click on the link below, this will open your web browser

http://aucache.autodesk.com/social/visualization.html

2. Use “Extended Display” to project the website on screen if you plan to work on your computer. Use “Duplicate” to display same image on screen and computer.

Hollywood BIM for Infrastructure

José Andrés Lara Seedorf

Visualization Manager

@andreseedorf

Class summary

We'll be learning how to integrate CG with Live Action footage as a selling tool. Using MatchMover for camera tracking, basic rigging and animation within 3ds Max, rendering trough Backburner application and finally, compositing different layers with our favorite compositing software. Also, how to bring our Revit models into 3ds Max and animate them to create visually striking but comprehensive videos for building processes.

Key learning objectives

At the end of this class, you will be able to:

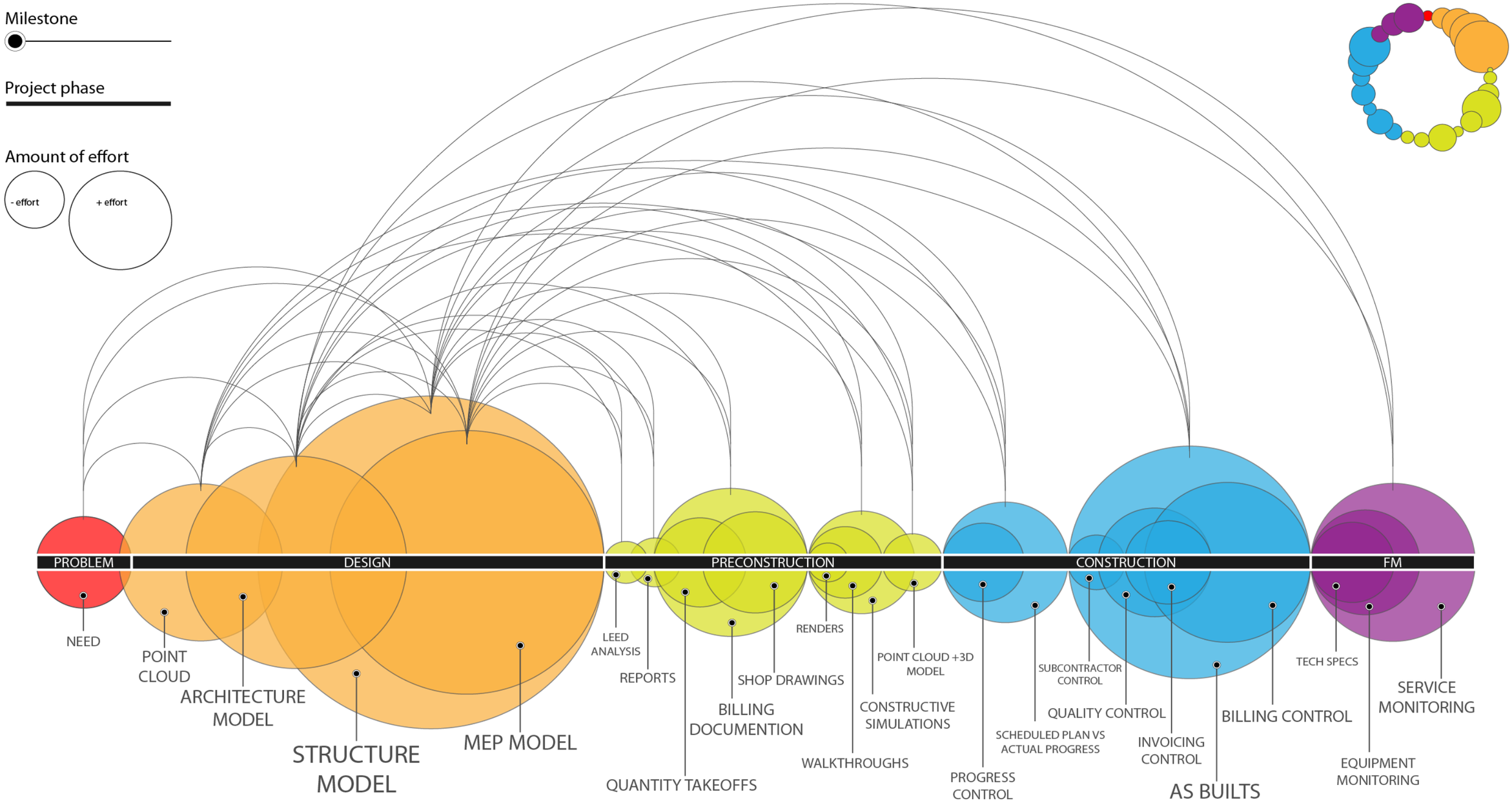
- Discover the enormous advantages of using 3D tracking with the MatchMover application for transportation infrastructure projects.
- Discover the relevance of rigging and animation in transportation infrastructure projects.
- Learn about BIM pipeline integration in 3ds Max software for visualization purposes.
- Discover how Autodesk products can allow you to deliver technical information to both engineers and non-technical audiences.

Introduction

First of all…

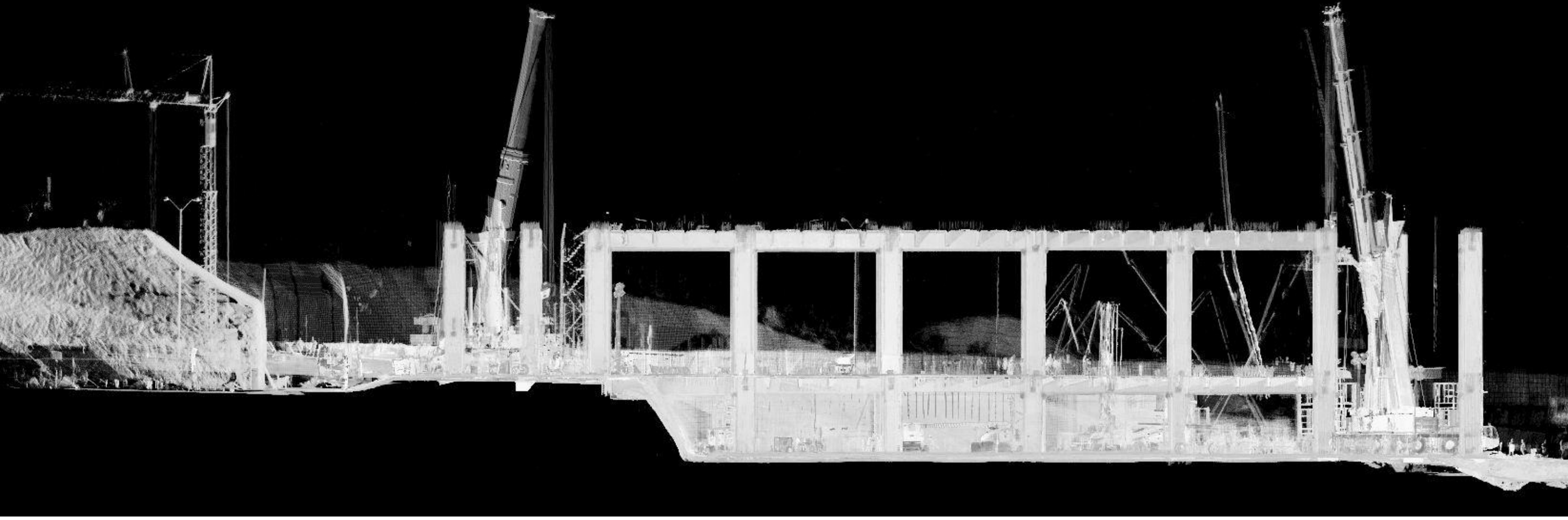
Say NO to

Hollywood BIM


Milestone
Project phase
Amount of effort
- effort
+ effort
PROBLEM
DESIGN
PRECONSTRUCTION
CONSTRUCTION
FM
NEED
POINT CLOUD
ARCHITECTURE MODEL
STRUCTURE MODEL
MEP MODEL
LEED ANALYSIS
REPORTS
QUANTITY TAKEOFFS
BILLING DOCUMENTION
SHOP DRAWINGS
RENDERS
WALKTHROUGHS
CONSTRUCTIVE SIMULATIONS
POINT CLOUD +3D MODEL
PROGRESS CONTROL
SCHEDULED PLAN VS ACTUAL PROGRESS
SUBCONTRACTOR CONTROL
QUALITY CONTROL
INVOICING CONTROL
AS BUILTS
BILLING CONTROL
TECH SPECS
EQUIPMENT MONITORING
SERVICE MONITORING

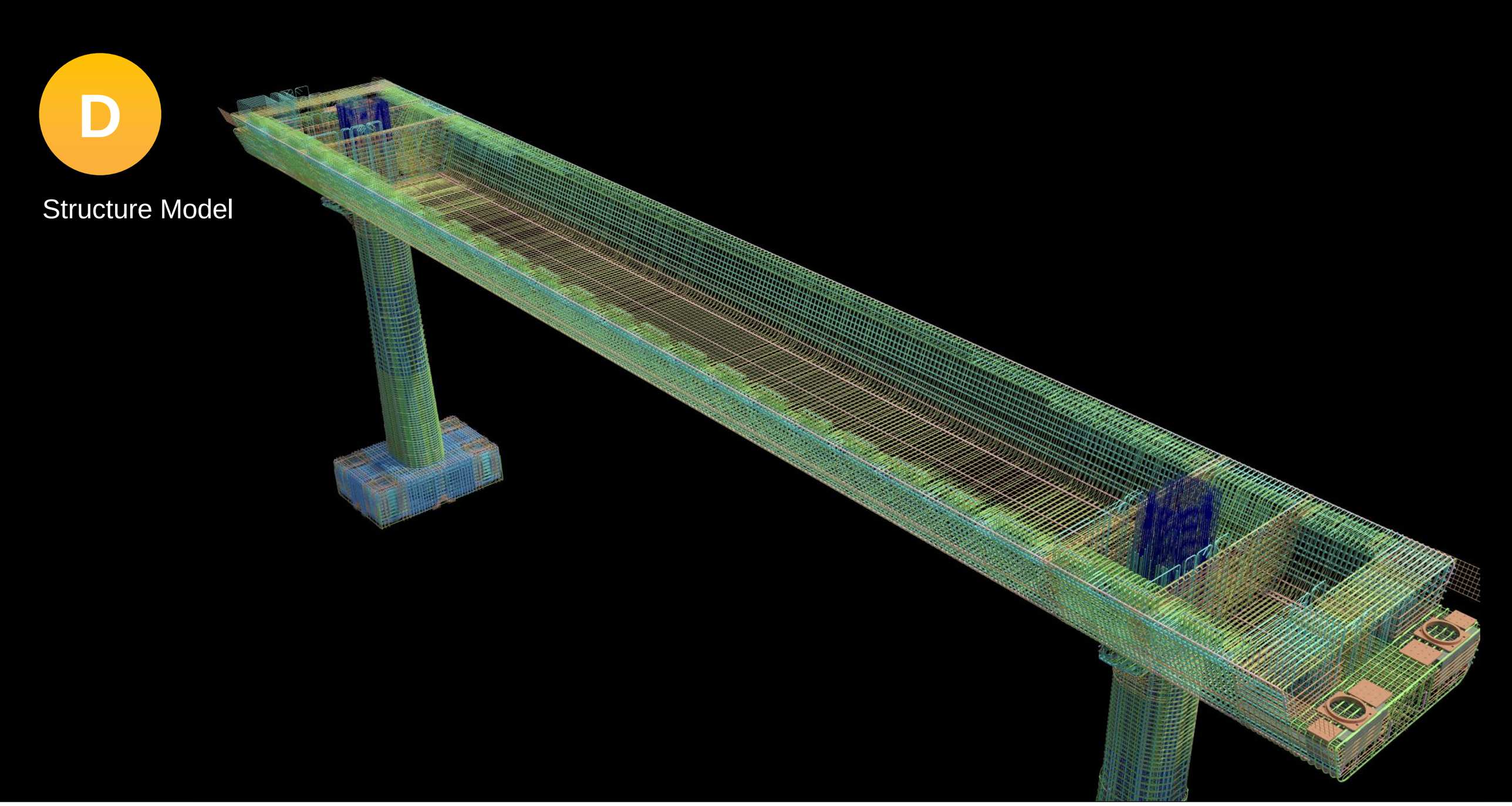
D

Point Cloud



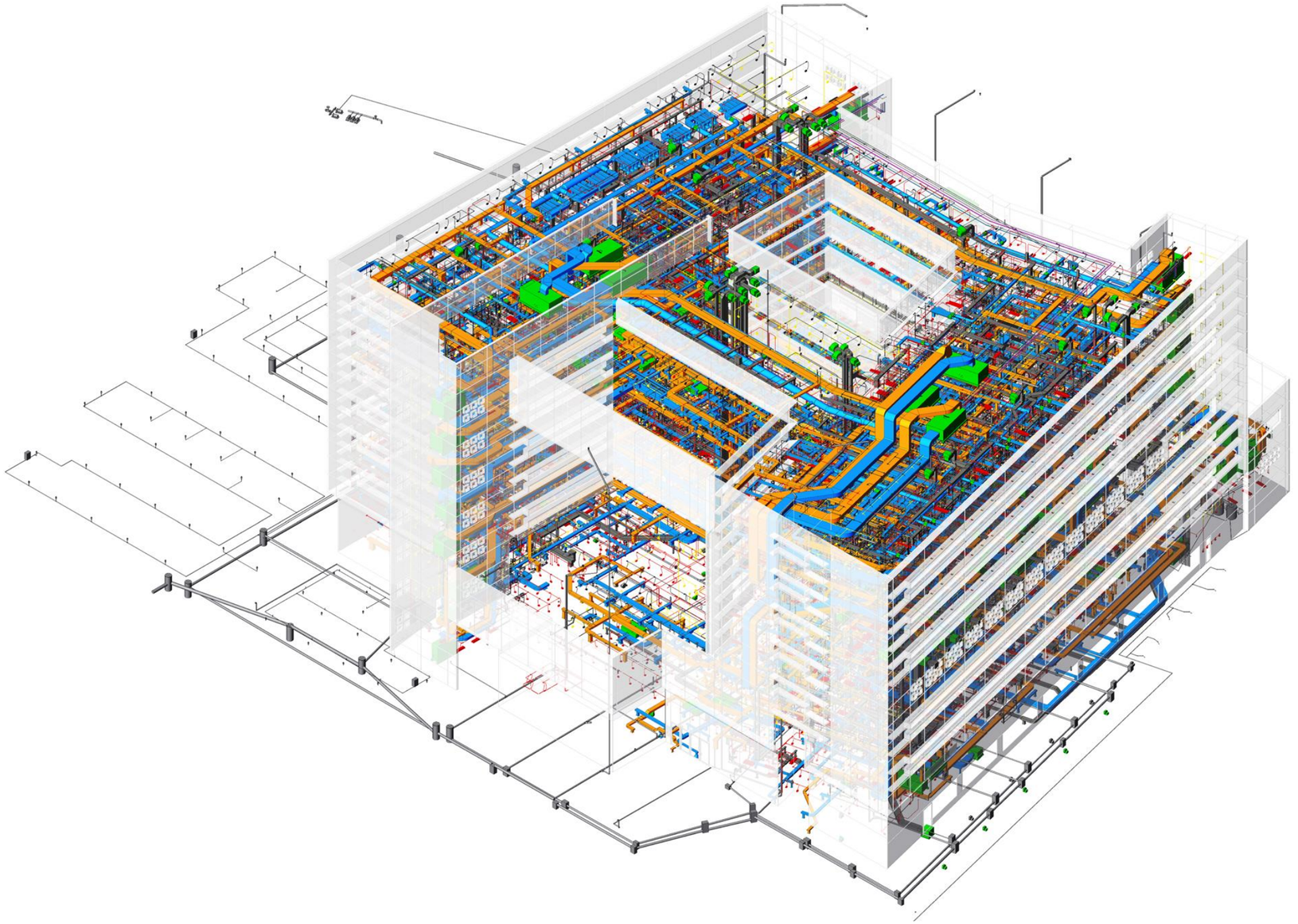
D

Structure Model



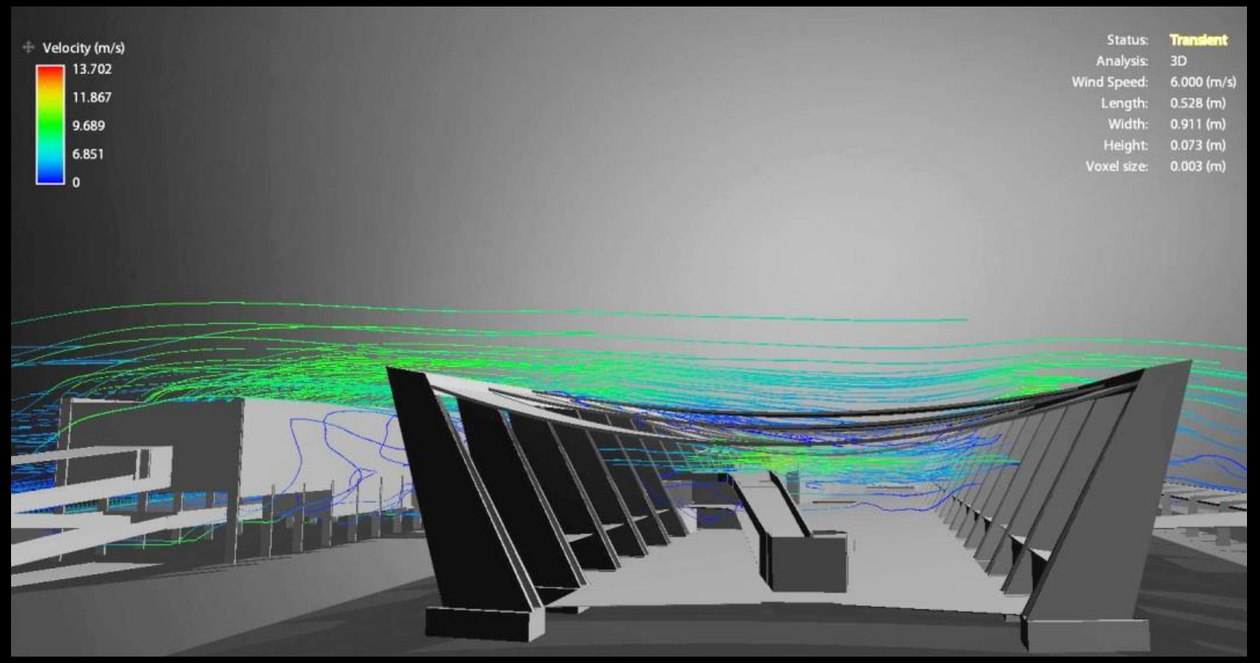
D

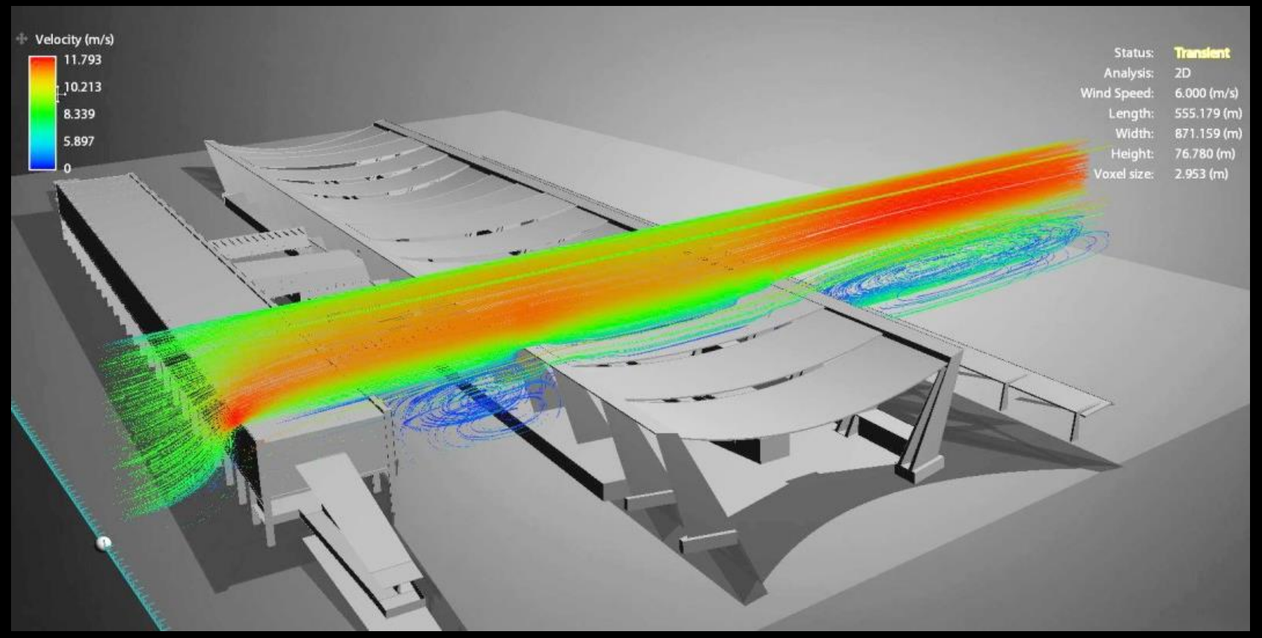
MEP Model



PC

LEED ANALYSIS





PC

REPORTS

PTAR Atotonilco_IM_300_02

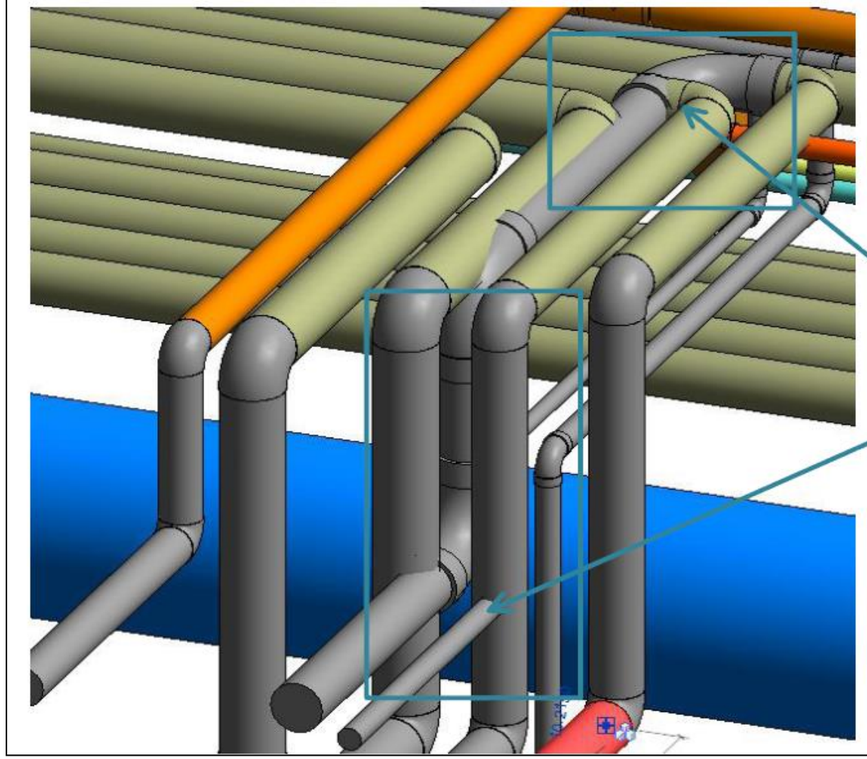
viernes, 09 de diciembre de 2011
08:52 a.m.

No.Proyecto 11_006_ATOTO_FASE2

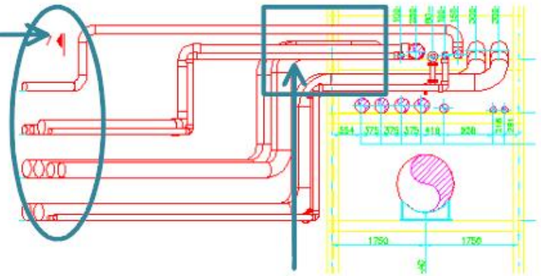
Revisión de Proyecto

ATVM
Aguas Tratadas del Valle de México

Clave Reporte	Edificio	Nivel	Plano	Elemento	Descripción	Solución	Tipo	Ejes	Reportó	Solucionó	Fecha Reportado	Fecha Entregado	Fecha resuelto
IM-02	Área 300	Rack de tuberías entre reactores biológicos	ID_0300_IM3_PL_2027_0B		Acorde a las cotas y planos, existe interferencia entre varias tuberías		Incongruencia		LMM		26/12/2011	05/01/2012	



Conforme al orden dentro del rack hacia Area 800 no alcanza a librar las tuberías por lo cual se generan las interferencias

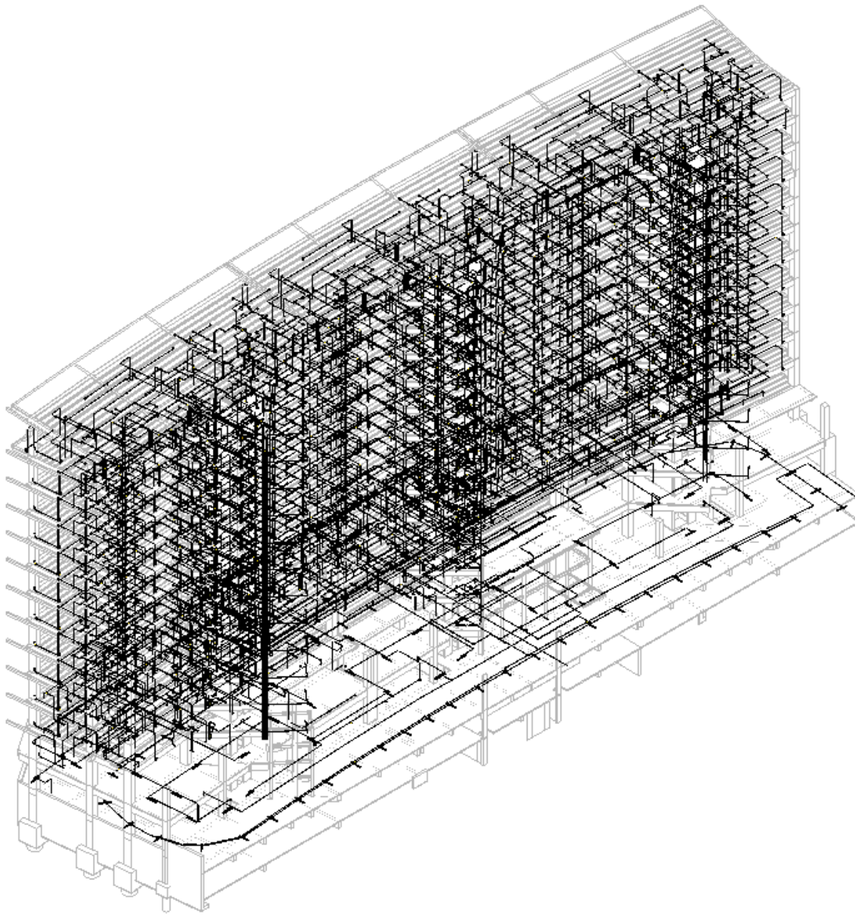


No se indican elevaciones de este tramo del arreglo de tuberias

No coincide las elevaciones marcadas con la distribución de tuberías dentro del rack, generando varias interferencias en el quiebre de la trayectoria

PC

QUANTITY TAKEOFFS



LUMINARIAS				
INSTALACIÓN	NIVEL	TIPO	DESCRIPCIÓN	CANTIDAD
L Emergencia	S01	L_01	Luminaria suspendida en losa con lámparas fluorescentes de 2X13W, 127V, 1F-2H, 60Hz	3
L Emergencia	S01	L_02	Luminaria en escaleras	3
L Emergencia	S01	L_05_01_E	Luminaria de empotrar en muro con lámpara fluorescente de 26W, 127V, 60Hz	8
L Emergencia	S01	L_50_01	Luminaria sobrepuesta en losa con lámparas fluorescentes de 2X32W, 127V, 1F-2H, 60Hz	17
L Normal	S01	L-01	Luminaria suspendida en losa con lámparas fluorescentes de 2X13W, 127V, 1F-2H, 60Hz	32
L Normal	S01	L_04_01	Luminario en piso, 50W, 127V, 1F-2H, 60Hz	13
L Normal	S01	L_04_02	Salida para luminaria en plafón, 60Watts, 127V, 1F-2H, 60Hz	3
L Normal	S01	L_50_01	Luminaria sobrepuesta en losa con lámparas fluorescentes de 2X32W, 127V, 1F-2H, 60Hz	72
L Emergencia	N00	L_02_02	Luminaria con lámpara fluorescente de 1x28W, 127V, 1F-2H, 60Hz	12
L Emergencia	N00	L_50_01	Luminaria sobrepuesta en losa con lámparas fluorescentes de 2X32W, 127V, 1F-2H, 60Hz	11
L Normal	N00	L_01	Luminaria suspendida en losa con lámparas fluorescentes de 2X13W, 127V, 1F-2H, 60Hz	38
L Normal	N00	L_07_01_E	Arbotante de sobreponer en muro	6
L Normal	N00	L_02_02	Luminaria con lámpara fluorescente de 1x28W, 127V, 1F-2H, 60Hz	9
L Normal	N00	L_50_01	Luminaria sobrepuesta en losa con lámparas fluorescentes de 2X32W, 127V, 1F-2H, 60Hz	38
L Emergencia	NMZ	L_07_01_E	Arbotante de sobreponer en muro	10
L Emergencia	NMZ	L_02_03	Salida para luminaria en cajillo 180Watts, 127V, 1F-2H, 60Hz	53
L Emergencia	NMZ	L_06	Lámpara indicadora de salida de emergencia, 14 Watts, 127V, 1F-2H, 60Hz	5
L Emergencia	NMZ	S-02	Salida para luminaria en plafón, 60 Watts, 127V, 1F-2H, 60Hz	2
L Emergencia	NMZ	S-03	Salida para luminaria en plafón, 60 Watts, 127V, 1F-2H, 60Hz	17
L Normal	NMZ	L-07-01-E	Arbotante de sobreponer en muro	6
L Normal	NMZ	L_02_03	Salida para luminaria en cajillo 180Watts, 127V, 1F-2H, 60Hz	116
L Normal	NMZ	L_04_03	Salida para luminaria en piso, 60 Watts, 127V, 1F-2H, 60Hz	42
L Normal	NMZ	L_04_04	Luminaria/Salida en piso	7
L Normal	NMZ	S-01	Salida para luminaria en plafón, 60 Watts, 127V, 1F-2H, 60Hz	12
L Normal	NMZ	S-02	Salida para luminaria en plafón, 60 Watts, 127V, 1F-2H, 60Hz	9
L Normal	NMZ	S-03	Salida para luminaria en plafón, 60 Watts, 127V, 1F-2H, 60Hz	89
L Emergencia	N01-09 (tipo)	L_02_03	Salida para luminaria en cajillo 180Watts, 127V, 1F-2H, 60Hz	18
L Normal	N01-09 (tipo)	L_02_03	Salida para luminaria en cajillo 180Watts, 127V, 1F-2H, 60Hz	9
L Normal	N01-09 (tipo)	L_04_03	Salida para luminaria en piso, 60 Watts, 127V, 1F-2H, 60Hz	12
L Normal	N01-09 (tipo)	S-01	Salida para luminaria en plafón, 60 Watts, 127V, 1F-2H, 60Hz	6
L Normal	N01-09 (tipo)	S-02	Salida para luminaria en plafón, 60 Watts, 127V, 1F-2H, 60Hz	30
L Normal	N01-09 (tipo)	S-03	Salida para luminaria en plafón, 60 Watts, 127V, 1F-2H, 60Hz	157
L Emergencia	N10	L_02_03	Salida para luminaria en cajillo 180Watts, 127V, 1F-2H, 60Hz	18
L Normal	N10	L_02_03	Salida para luminaria en cajillo 180Watts, 127V, 1F-2H, 60Hz	12
L Normal	N10	L_04_03	Salida para luminaria en piso, 60 Watts, 127V, 1F-2H, 60Hz	12
L Normal	N10	S-01	Salida para luminaria en plafón, 60 Watts, 127V, 1F-2H, 60Hz	6
L Normal	N10	S-02	Salida para luminaria en plafón, 60 Watts, 127V, 1F-2H, 60Hz	27
L Normal	N10	S-03	Salida para luminaria en plafón, 60 Watts, 127V, 1F-2H, 60Hz	135
L Emergencia	N11	L_02_03	Salida para luminaria en cajillo 180Watts, 127V, 1F-2H, 60Hz	14
L Normal	N11	L_07_01_E	Arbotante de sobreponer en muro	18
L Normal	N11	L_02_03	Salida para luminaria en cajillo 180Watts, 127V, 1F-2H, 60Hz	24
L Normal	N11	L_04_03	Salida para luminaria en piso, 60 Watts, 127V, 1F-2H, 60Hz	24
L Normal	N11	S-02	Salida para luminaria en plafón, 60 Watts, 127V, 1F-2H, 60Hz	9
L Normal	N11	S-03	Salida para luminaria en plafón, 60 Watts, 127V, 1F-2H, 60Hz	183

PC

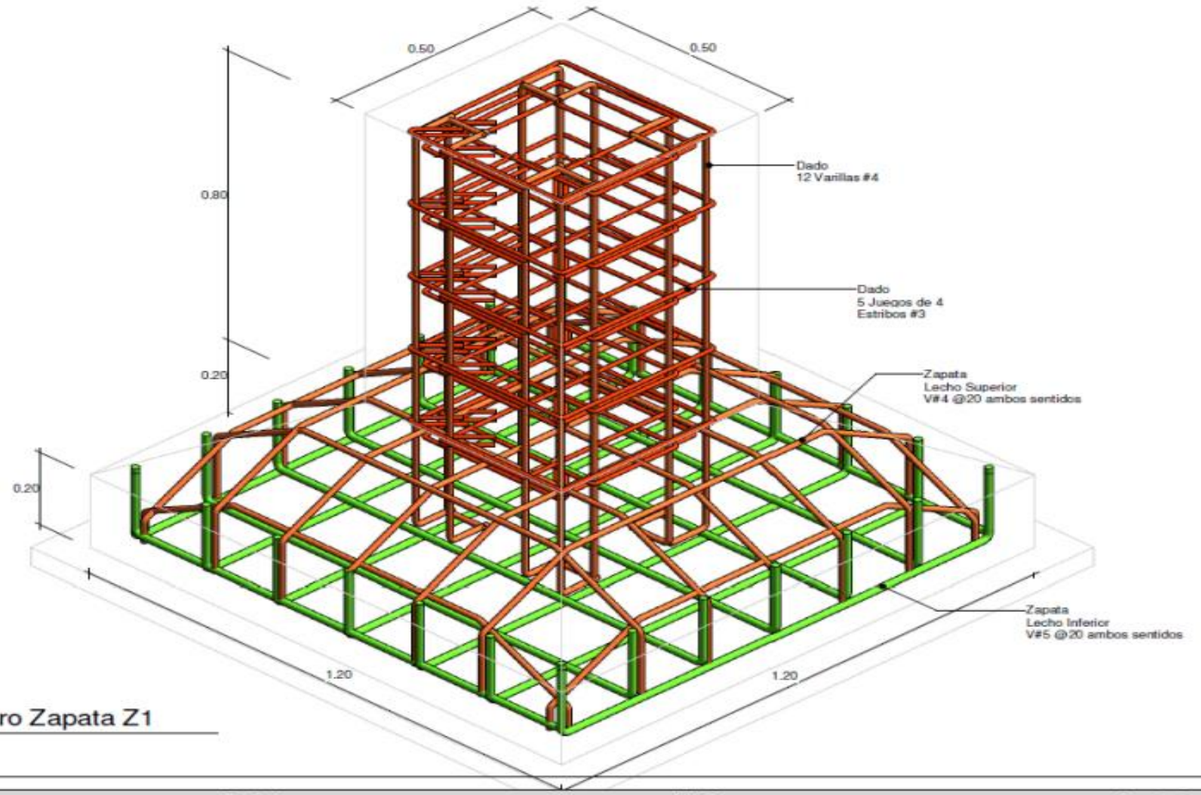
BILLING
DOCUMENTATION

Baja California Sur
GOBIERNO DEL ESTADO
SECRETARÍA DE PLANEACIÓN URBANA INFRAESTRUCTURA Y ECOLOGÍA

ICA construcciónurbana

Contrato:	CICSJC-TI-0042011-01	Estimación:		Fecha Inicio:	
Obra:	Centro Internacional de Convenciones de San José del Cabo	Partida:		Periodo:	
Lugar:	San José del Cabo, Baja California Sur	Plano:		Fecha Fin:	

NÚMEROS GENERADORES

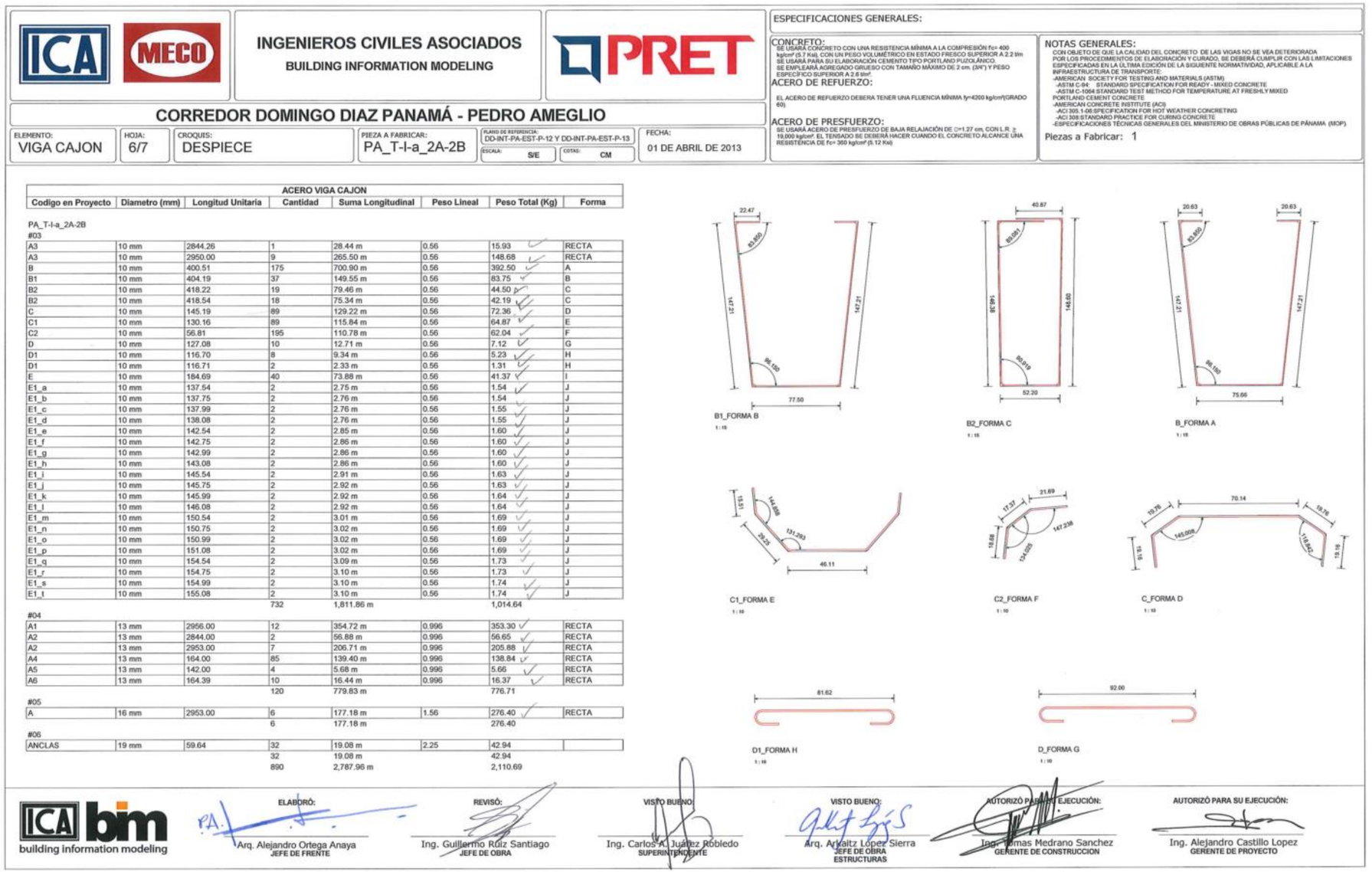


1 1.1 Acero Zapata Z1

Elaboró	Revisó	Vo Bo	Autorizó
Ingenieros Civiles Asociados, S.A. de C.V.	Ingenieros Civiles Asociados, S.A. de C.V.	Aconsa y Asociados Consultores S. de R.L. de C.V.	Aconsa y Asociados Consultores S. de R.L. de C.V.
Residente	Ing. Fernando Perez Garcia	Coordinador de Obra	MC. Arq. Rodolfo Vera Canto y/o Arq José Jorge Ramirez

PC

SHOP DRAWINGS



ICA MECO

INGENIEROS CIVILES ASOCIADOS

BUILDING INFORMATION MODELING

PRET

CORREDOR DOMINGO DIAZ PANAMÁ - PEDRO AMEGLIO

ELEMENTO: VIGA CAJON | HOJA: 6/7 | CROQUIS: DESPIECE | PIEZA A FABRICAR: PA_T-I-a_2A-2B | PLANO DE REFERENCIA: DD-INT-PA-EST-P-12 Y DD-INT-PA-EST-P-13 | ESCALA: S/E | COTAS: CM | FECHA: 01 DE ABRIL DE 2013

ESPECIFICACIONES GENERALES:

CONCRETO:
SE USARÁ CONCRETO CON UNA RESISTENCIA MÍNIMA A LA COMPRESIÓN f'c= 400 kg/cm² (5.7 Ksi), CON UN PESO VOLUMÉTRICO EN ESTADO FRESCO SUPERIOR A 2.2 t/m
SE USARÁ PARA SU ELABORACIÓN CEMENTO TIPO PORTLAND PUZOLÁNICO.
SE EMPLEARÁ AGREGADO GRUESO CON TAMAÑO MÁXIMO DE 2 cm. (3/4") Y PESO ESPECÍFICO SUPERIOR A 2.6 t/m³.

ACERO DE REFUERZO:
EL ACERO DE REFUERZO DEBERA TENER UNA FLUENCIA MÍNIMA fy=4200 kg/cm²(GRADO 60)

ACERO DE PRESFUERZO:
SE USARÁ ACERO DE PRESFUERZO DE BAJA RELAJACIÓN DE Ø=1.27 cm, CON L.R. ≥ 19,000 kg/cm². EL TENSADO SE DEBERÁ HACER CUANDO EL CONCRETO ALCANCE UNA RESISTENCIA DE f'c= 300 kg/cm² (5.12 Ksi)

NOTAS GENERALES:
CON OBJETO DE QUE LA CALIDAD DEL CONCRETO DE LAS VIGAS NO SE VEA DETERIORADA POR LOS PROCEDIMIENTOS DE ELABORACIÓN Y CURADO, SE DEBERÁ CUMPLIR CON LAS LIMITACIONES ESPECIFICADAS EN LA ÚLTIMA EDICIÓN DE LA SIGUIENTE NORMATIVIDAD, APLICABLE A LA INFRAESTRUCTURA DE TRANSPORTE:
-AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM)
-ASTM C-94 STANDARD SPECIFICATION FOR READY - MIXED CONCRETE
-ASTM C-1064 STANDARD TEST METHOD FOR TEMPERATURE AT FRESHLY MIXED PORTLAND CEMENT CONCRETE
-AMERICAN CONCRETE INSTITUTE (ACI)
-ACI 305.1-06 SPECIFICATION FOR HOT WEATHER CONCRETING
-ACI 308 STANDARD PRACTICE FOR CURING CONCRETE
-ESPECIFICACIONES TÉCNICAS GENERALES DEL MINISTERIO DE OBRAS PÚBLICAS DE PANAMA (MOP)

Piezas a Fabricar: 1

ACERO VIGA CAJON

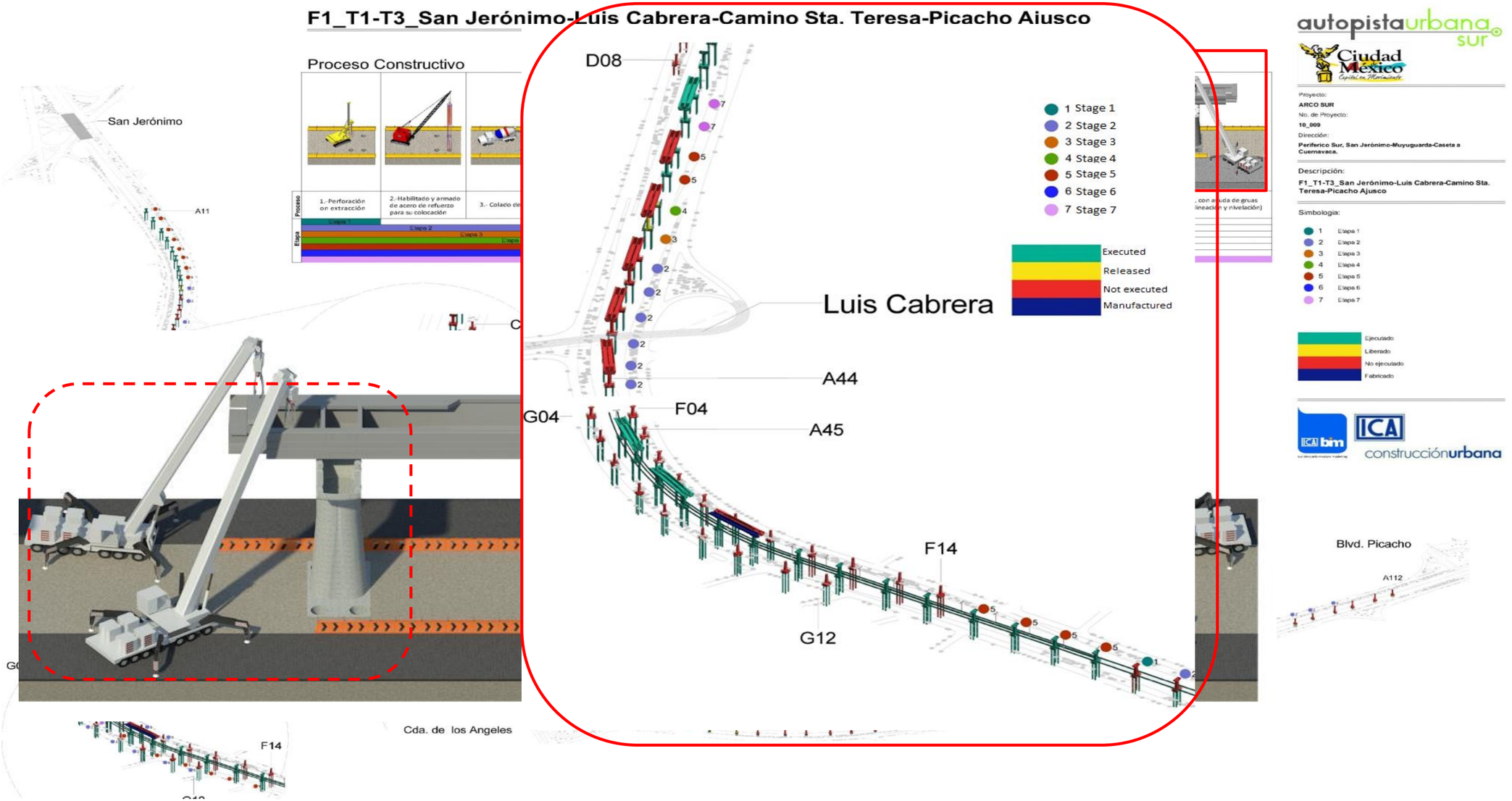
Codigo en Proyecto	Diametro (mm)	Longitud Unitaria	Cantidad	Suma Longitudinal	Peso Lineal	Peso Total (Kg)	Forma
PA_T-I-a_2A-2B							
#03							
A3	10 mm	2844.26	1	28.44 m	0.56	15.93	RECTA
A3	10 mm	2950.00	9	265.50 m	0.56	148.68	RECTA
B	10 mm	400.51	175	700.90 m	0.56	392.50	A
B1	10 mm	404.19	37	149.55 m	0.56	83.75	B
B2	10 mm	418.22	19	79.46 m	0.56	44.50	C
B2	10 mm	418.54	18	75.34 m	0.56	42.19	C
C	10 mm	145.19	89	129.22 m	0.56	72.36	D
C1	10 mm	130.16	89	115.84 m	0.56	64.87	E
C2	10 mm	56.81	195	110.78 m	0.56	62.04	F
D	10 mm	127.08	10	12.71 m	0.56	7.12	G
D1	10 mm	116.70	8	9.34 m	0.56	5.23	H
D1	10 mm	116.71	2	2.33 m	0.56	1.31	H
E	10 mm	184.69	40	73.88 m	0.56	41.37	I
E1_a	10 mm	137.54	2	2.75 m	0.56	1.54	J
E1_b	10 mm	137.75	2	2.76 m	0.56	1.54	J
E1_c	10 mm	137.99	2	2.76 m	0.56	1.55	J
E1_d	10 mm	138.08	2	2.76 m	0.56	1.55	J
E1_e	10 mm	142.54	2	2.85 m	0.56	1.60	J
E1_f	10 mm	142.75	2	2.86 m	0.56	1.60	J
E1_g	10 mm	142.99	2	2.86 m	0.56	1.60	J
E1_h	10 mm	143.08	2	2.86 m	0.56	1.60	J
E1_i	10 mm	145.54	2	2.91 m	0.56	1.63	J
E1_j	10 mm	145.75	2	2.92 m	0.56	1.63	J
E1_k	10 mm	145.99	2	2.92 m	0.56	1.64	J
E1_l	10 mm	146.08	2	2.92 m	0.56	1.64	J
E1_m	10 mm	150.54	2	3.01 m	0.56	1.69	J
E1_n	10 mm	150.75	2	3.02 m	0.56	1.69	J
E1_o	10 mm	150.99	2	3.02 m	0.56	1.69	J
E1_p	10 mm	151.08	2	3.02 m	0.56	1.69	J
E1_q	10 mm	154.54	2	3.09 m	0.56	1.73	J
E1_r	10 mm	154.75	2	3.10 m	0.56	1.73	J
E1_s	10 mm	154.99	2	3.10 m	0.56	1.74	J
E1_t	10 mm	155.08	2	3.10 m	0.56	1.74	J
			732	1,811.86 m		1,014.64	
#04							
A1	13 mm	2956.00	12	354.72 m	0.996	353.30	RECTA
A2	13 mm	2844.00	2	56.88 m	0.996	56.65	RECTA
A2	13 mm	2953.00	7	206.71 m	0.996	205.88	RECTA
A4	13 mm	164.00	85	139.40 m	0.996	138.84	RECTA
A5	13 mm	142.00	4	5.68 m	0.996	5.66	RECTA
A6	13 mm	164.39	10	16.44 m	0.996	16.37	RECTA
			120	779.83 m		776.71	
#05							
A	16 mm	2953.00	6	177.18 m	1.56	276.40	RECTA
			6	177.18 m		276.40	
#06							
ANCLAS	19 mm	59.64	32	19.08 m	2.25	42.94	
			32	19.08 m		42.94	
			890	2,787.96 m		2,110.69	

ICA bim building information modeling

ELABORÓ:	REVISÓ:	VISTO BUENO:	VISTO BUENO:	AUTORIZÓ PARA SU EJECUCIÓN:	AUTORIZÓ PARA SU EJECUCIÓN:
Arq. Alejandro Ortega Anaya JEFE DE FRENTE	Ing. Guillermo Ruiz Santiago JEFE DE OBRA	Ing. Carlos A. Juárez Robledo SUPERINTENDENTE	Arq. Arkaitz López Sierra JEFE DE OBRA ESTRUCTURAS	Ing. Tomas Medrano Sanchez GERENTE DE CONSTRUCCION	Ing. Alejandro Castillo Lopez GERENTE DE PROYECTO

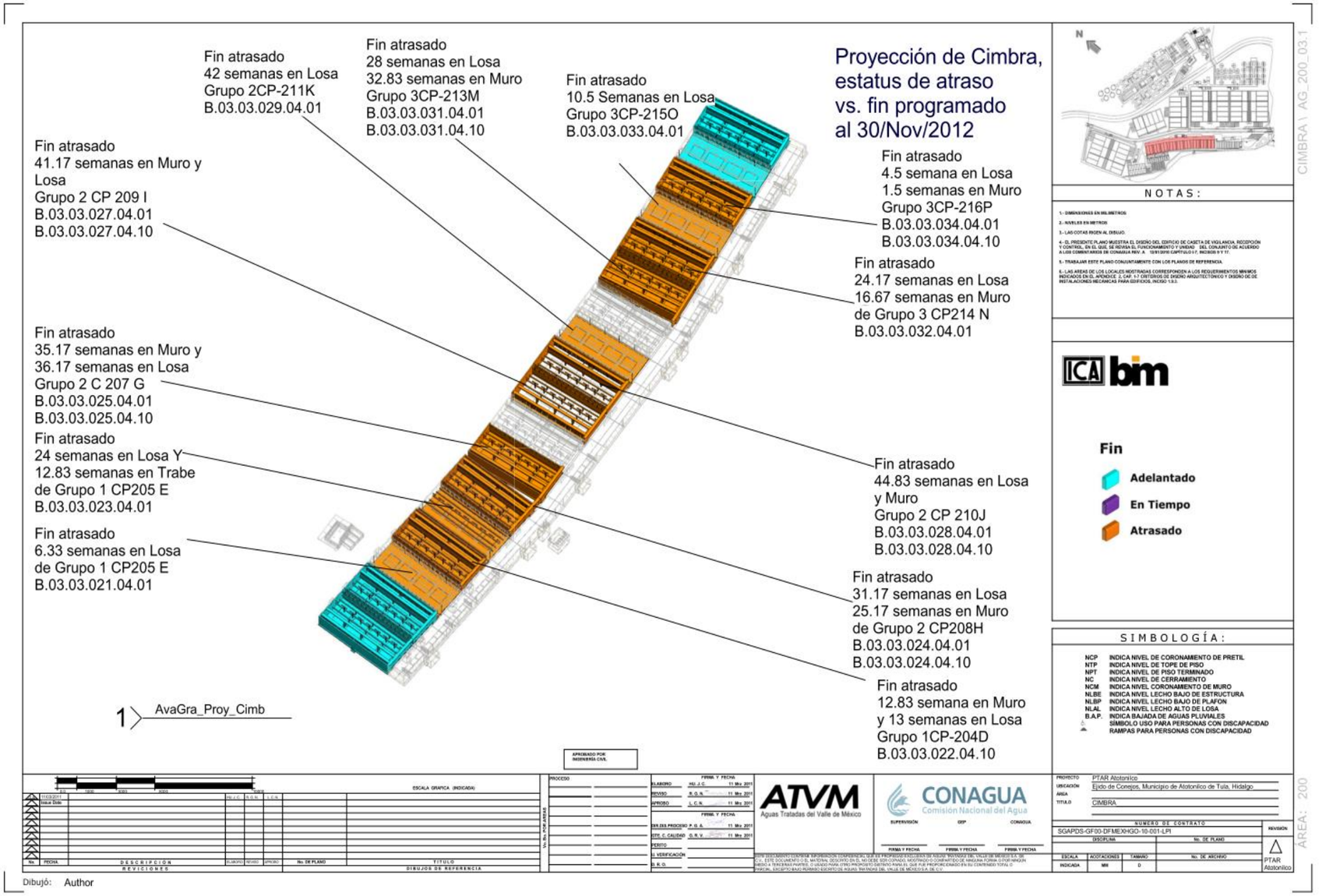
C

PROGRESS CONTROL



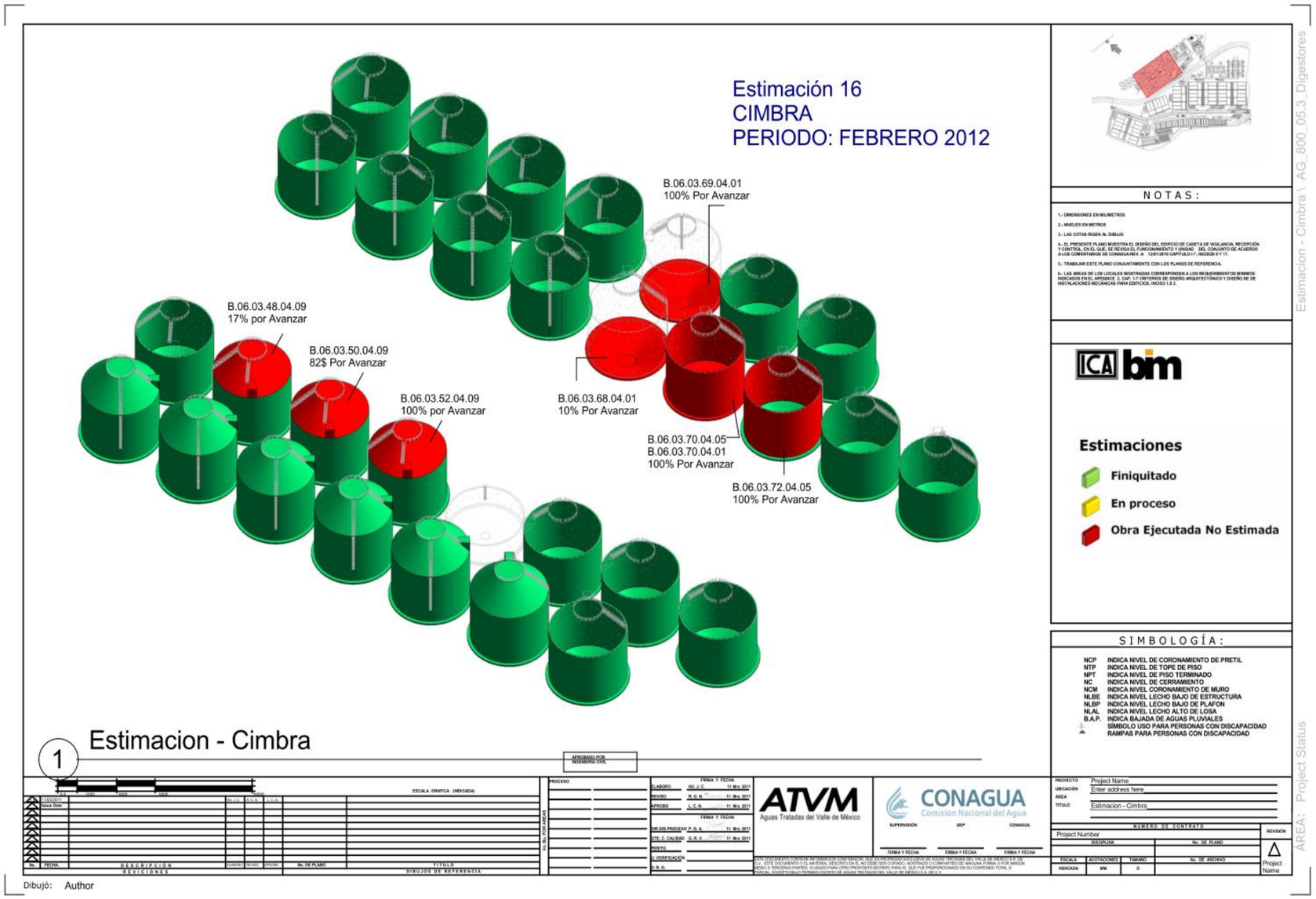
C

SCHEDULED PLAN vs ACTUAL PLAN



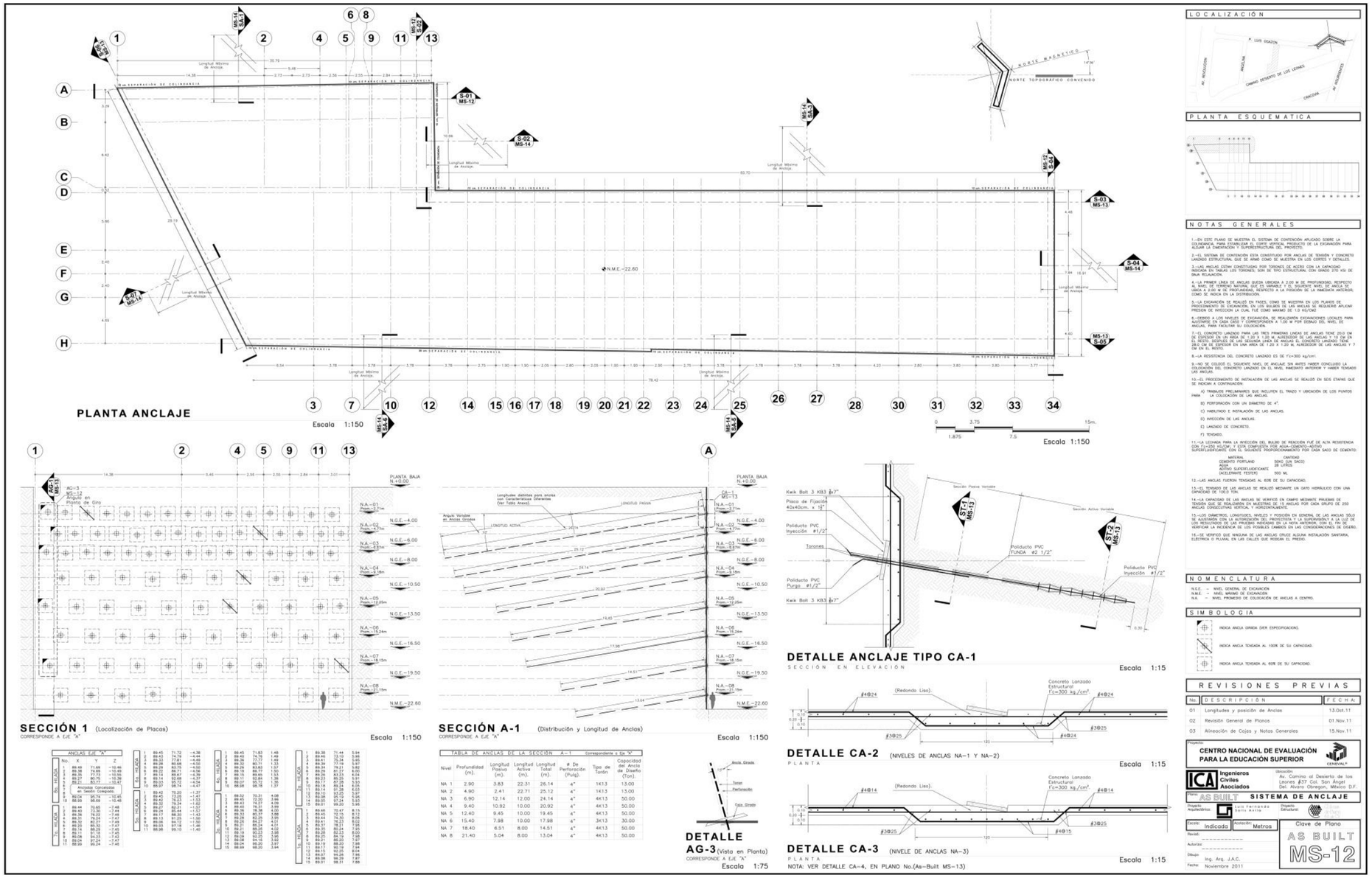
C

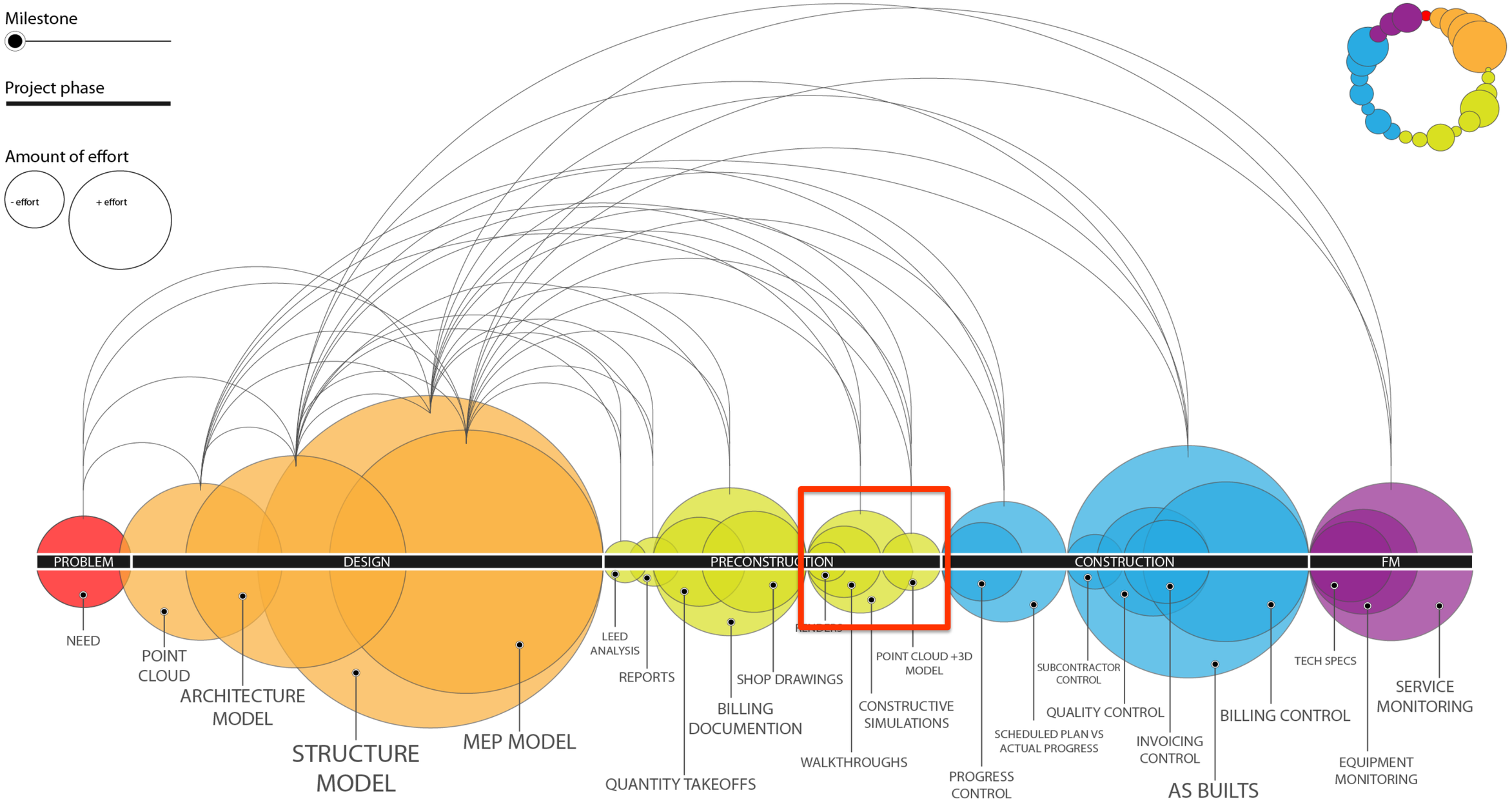
INVOICING
CONTROL



C

AS BUILT




Milestone
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FM
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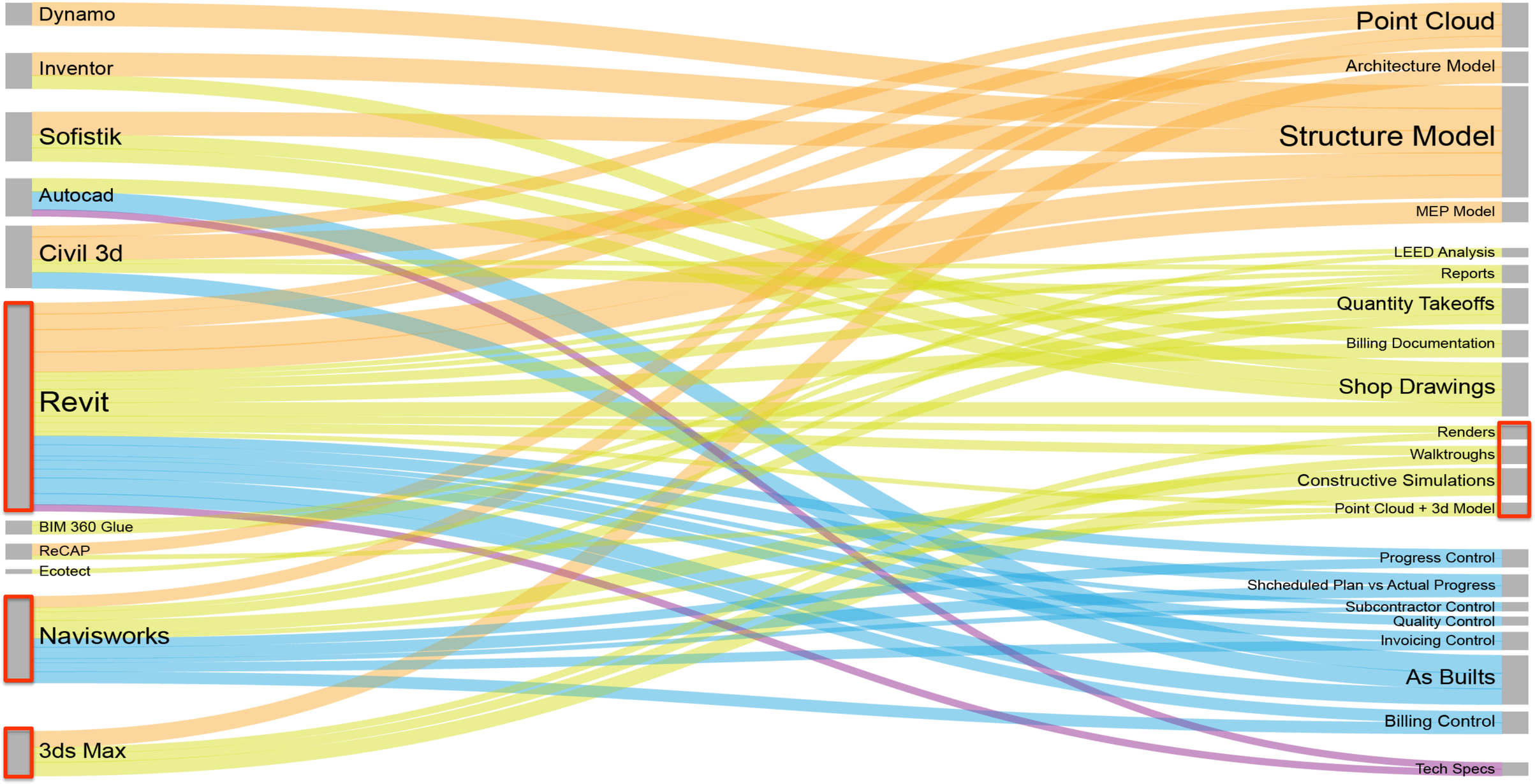
SERVICE MONITORING


Dynamo
Inventor
Sofistik
Autocad
Civil 3d
Revit
BIM 360 Glue
ReCAP
Ecotect
Navisworks
3ds Max
Point Cloud
Architecture Model
Structure Model
MEP Model
LEED Analysis
Reports
Quantity Takeoffs
Billing Documentation
Shop Drawings
Renders
Walktroughs
Constructive Simulations
Point Cloud + 3d Model
Progress Control
Shcheduled Plan vs Actual Progress
Subcontractor Control
Quality Control
Invoicing Control
As Builts
Billing Control
Tech Specs

80

8

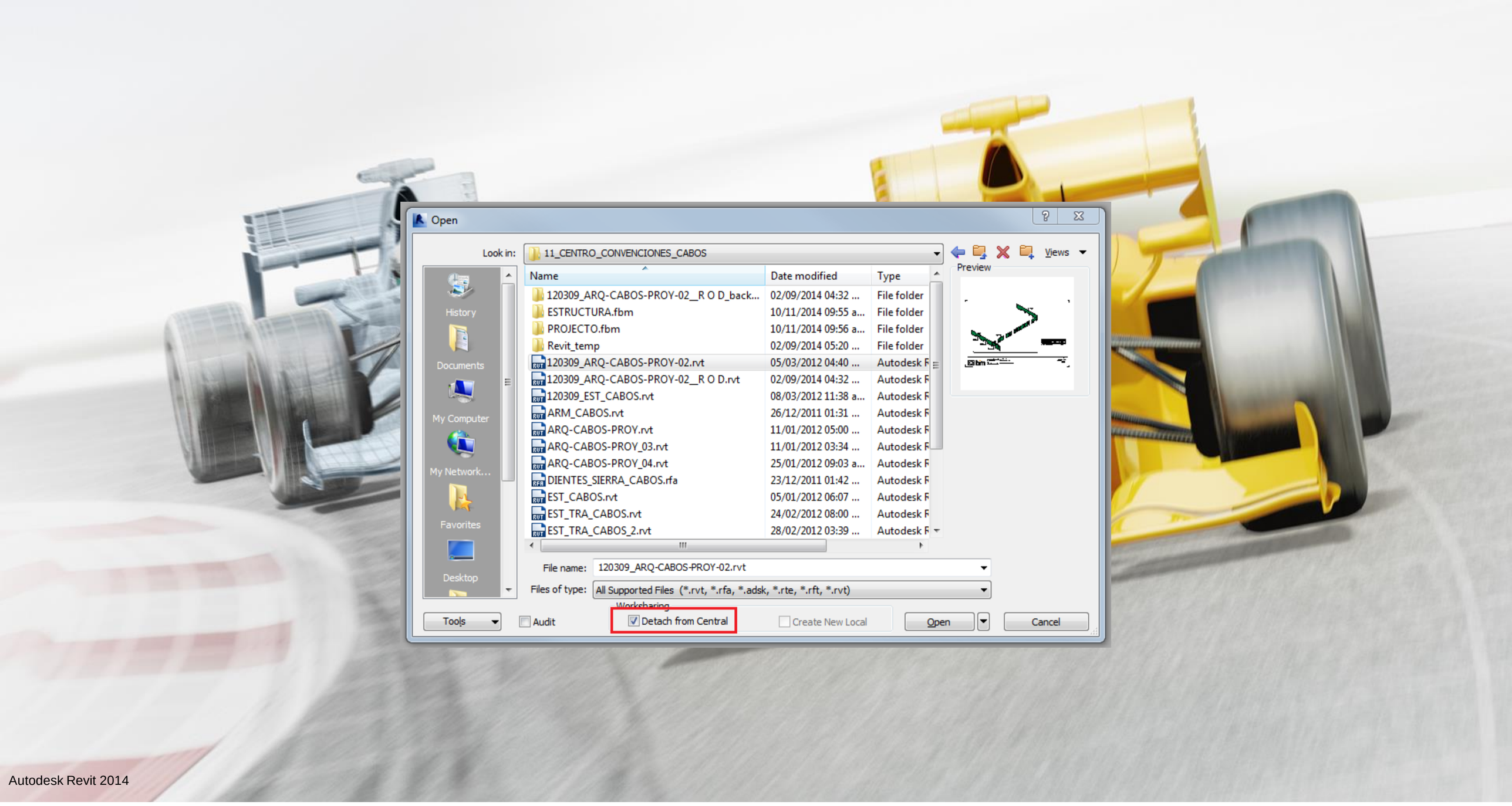
Sexy

~~Hollywood~~ BIM

ICAbim / BIM_Reel_2013

From Revit to 3ds Max

Autodesk Revit 2014



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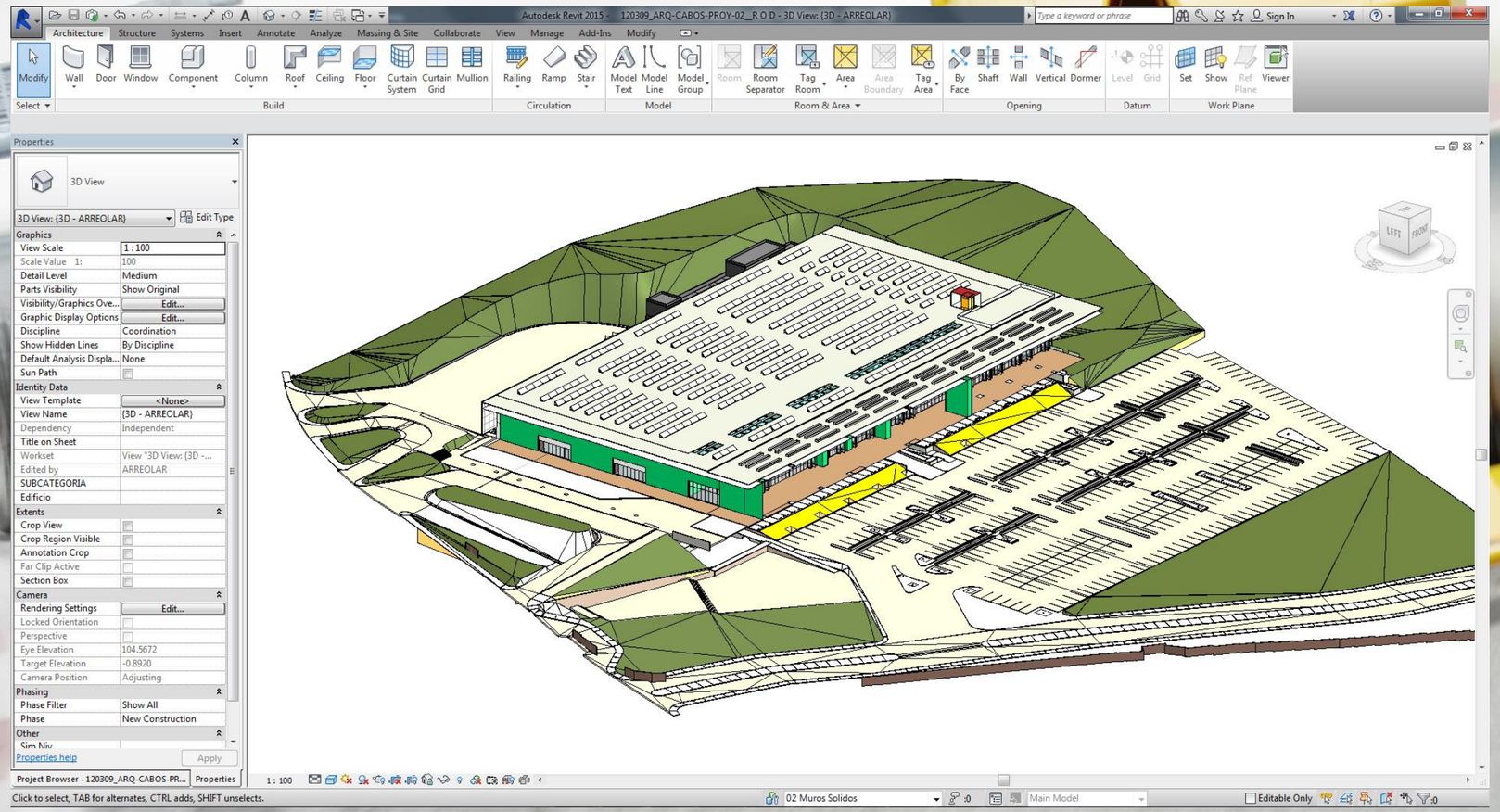

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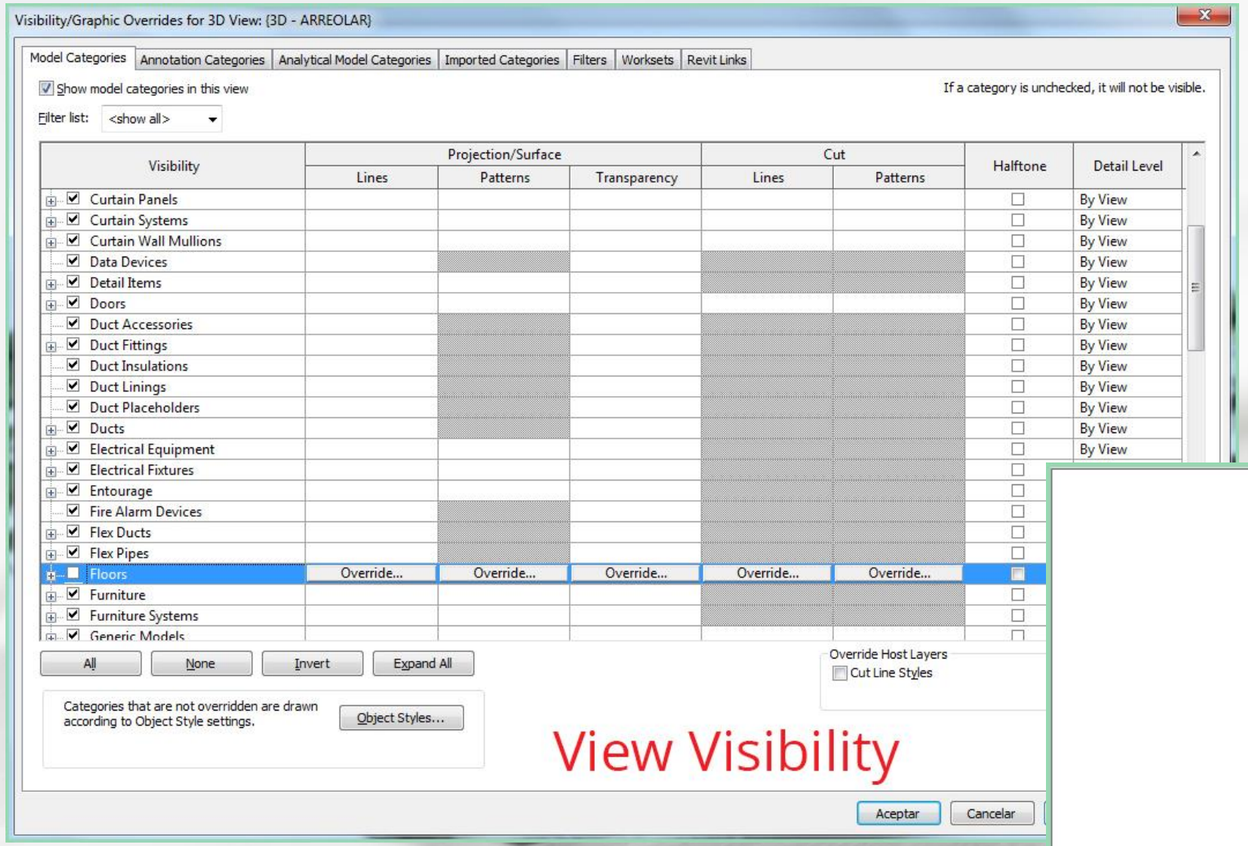
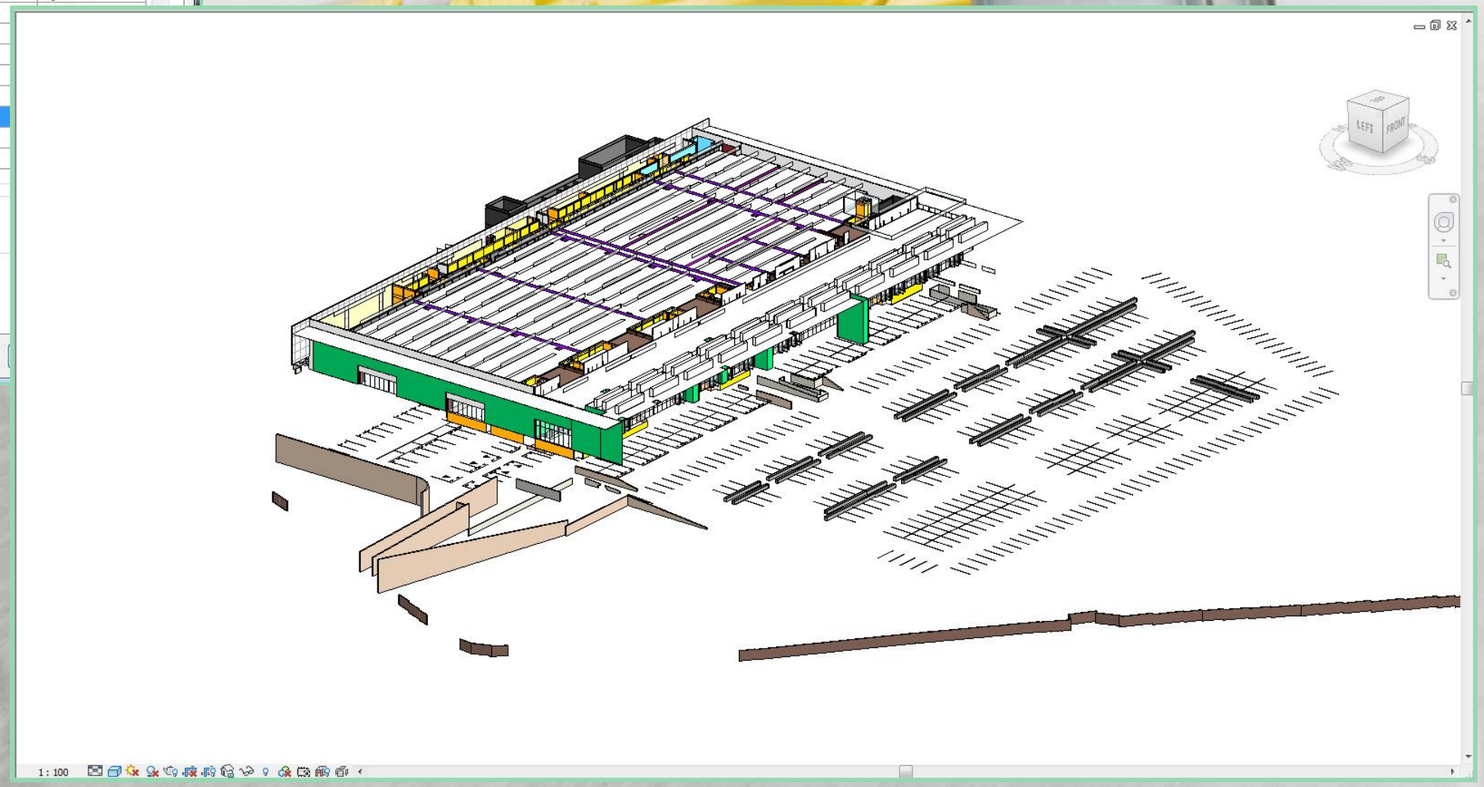


View Visibility



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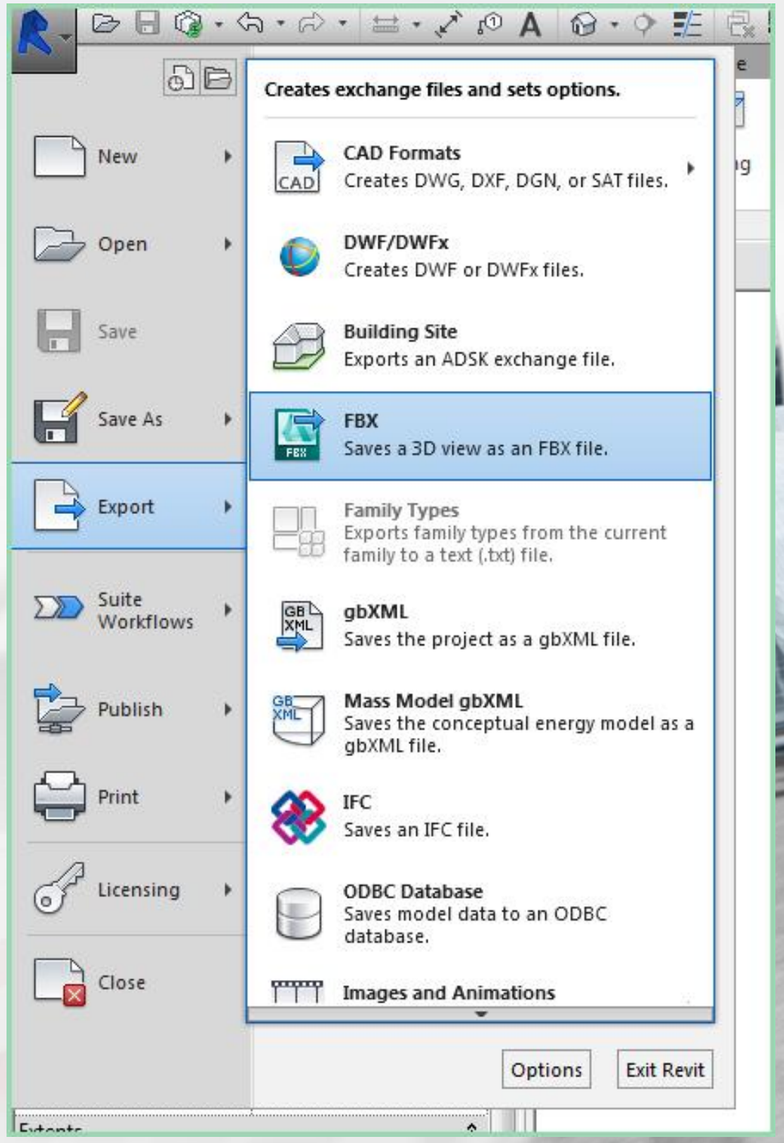

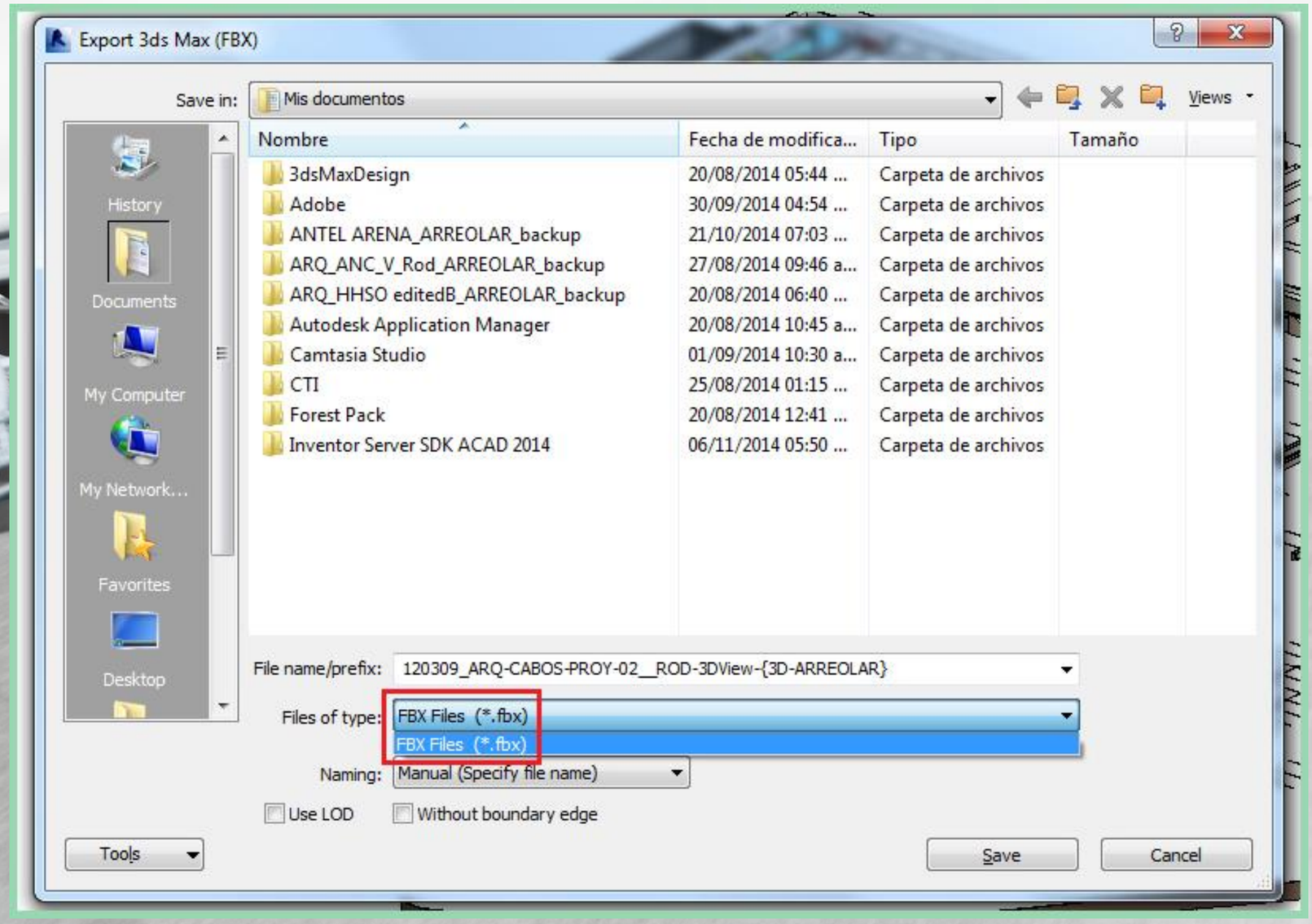

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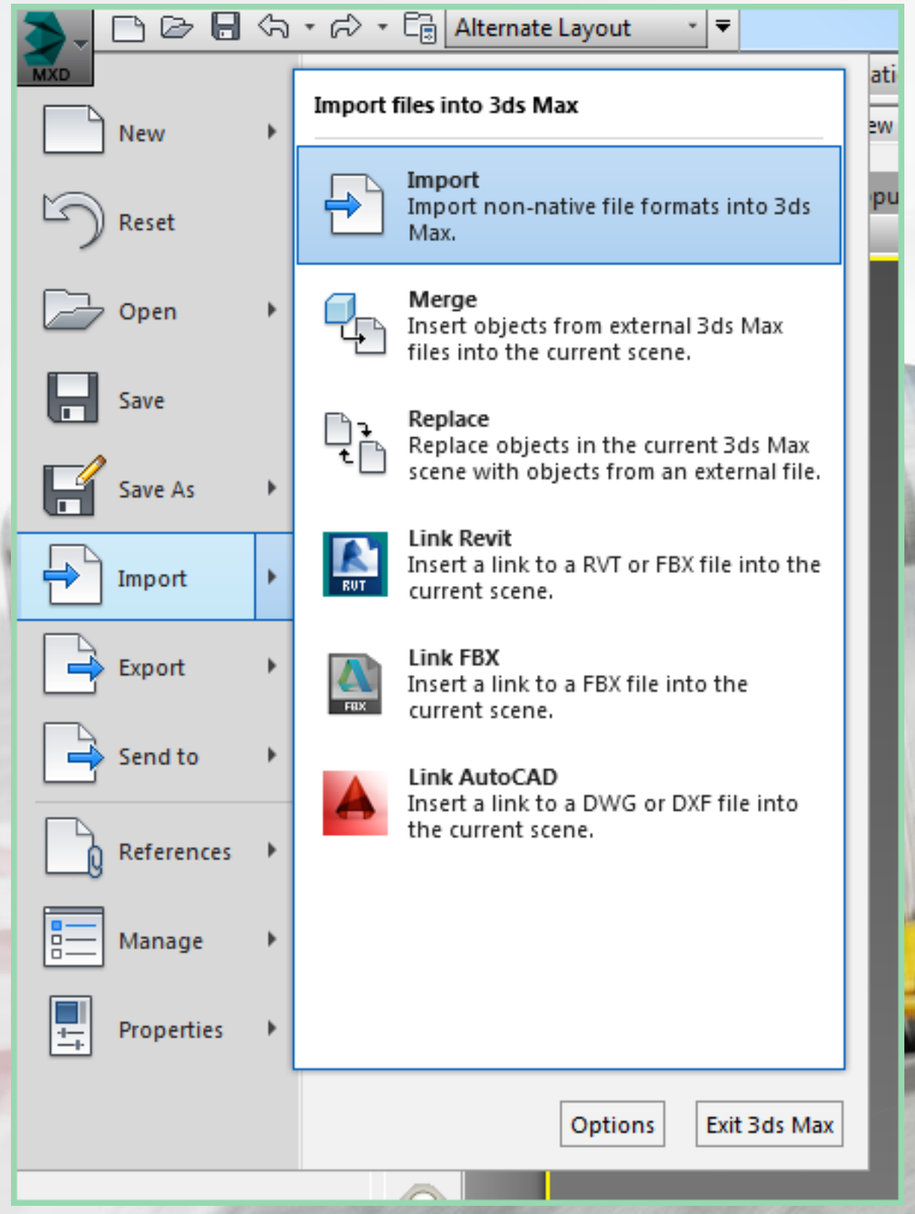
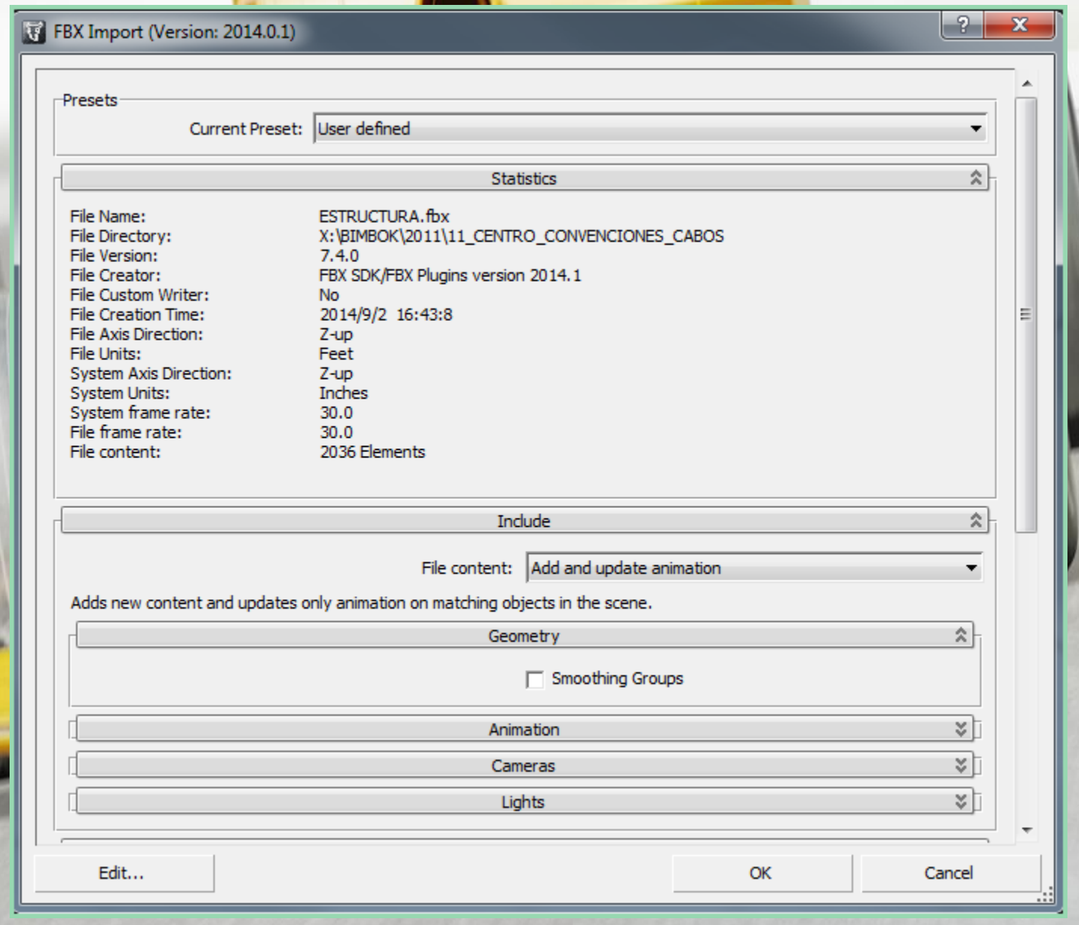
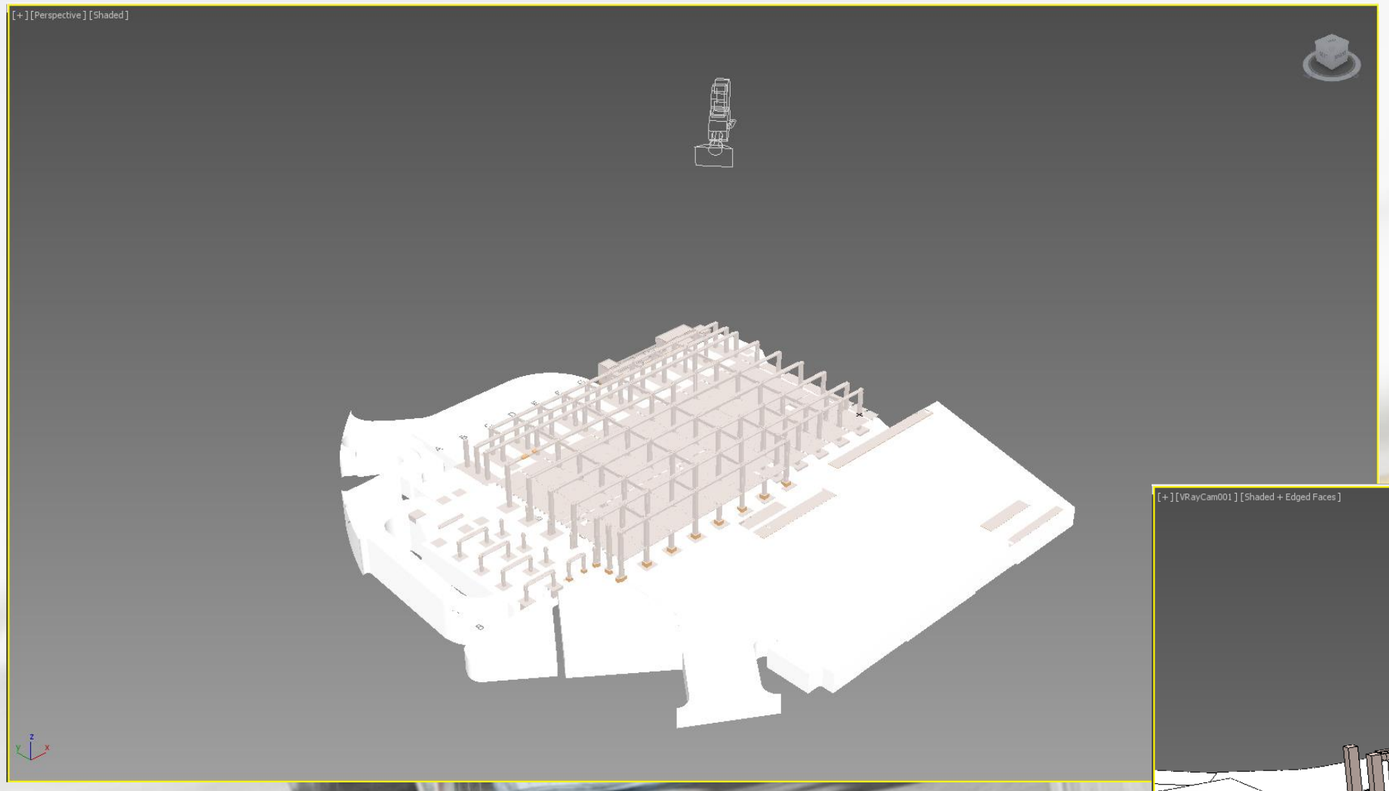
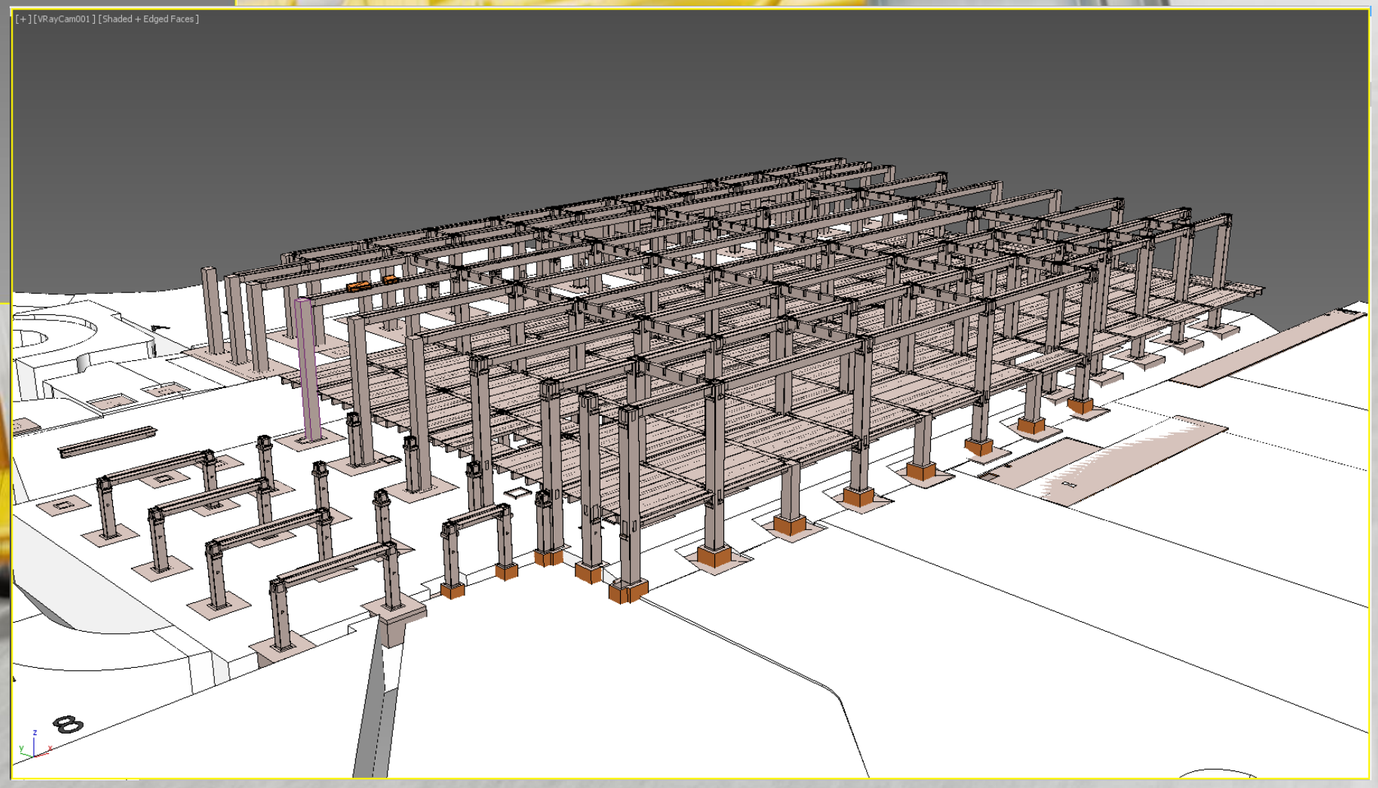




Autodesk 3ds Max Design 2014





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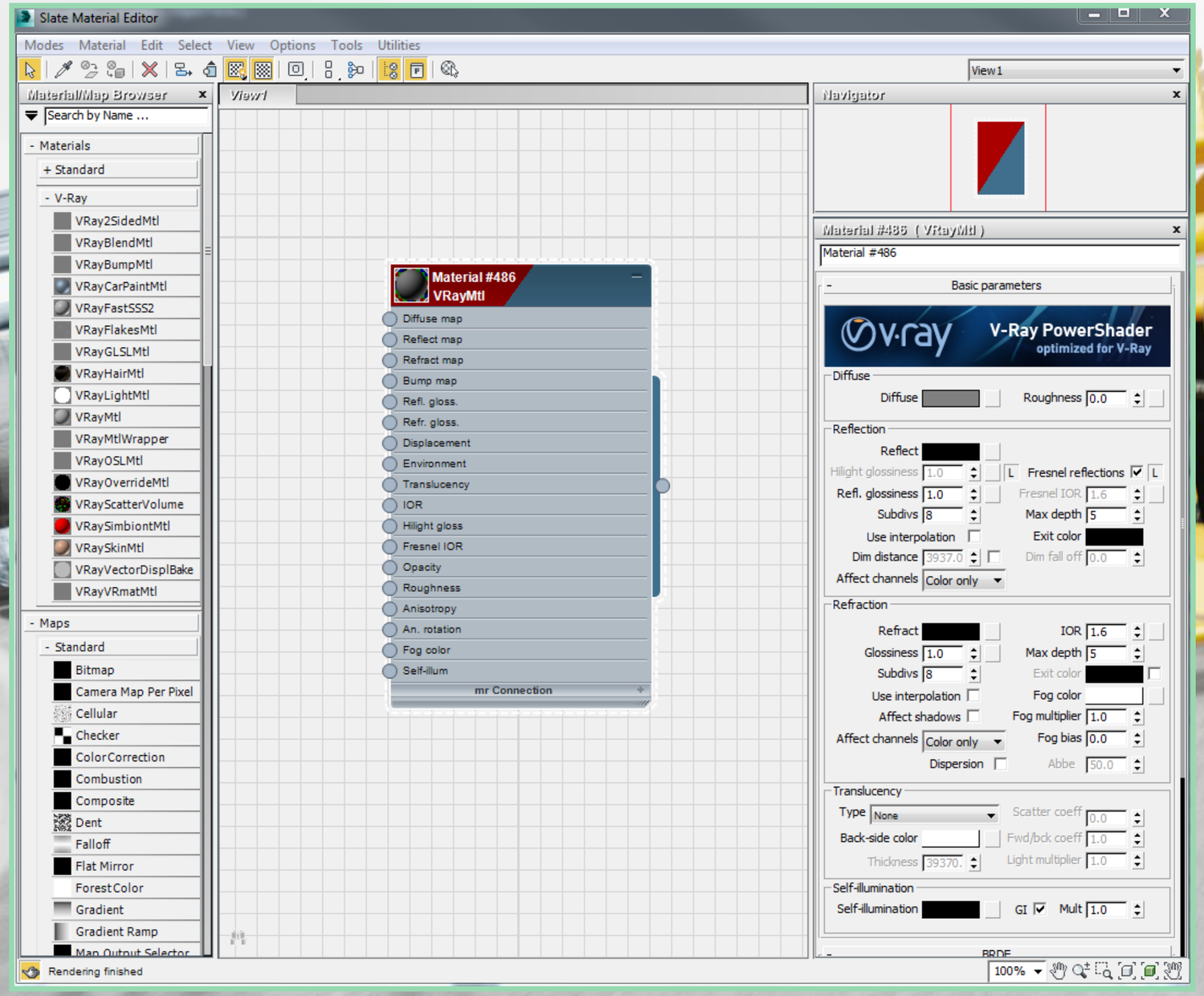

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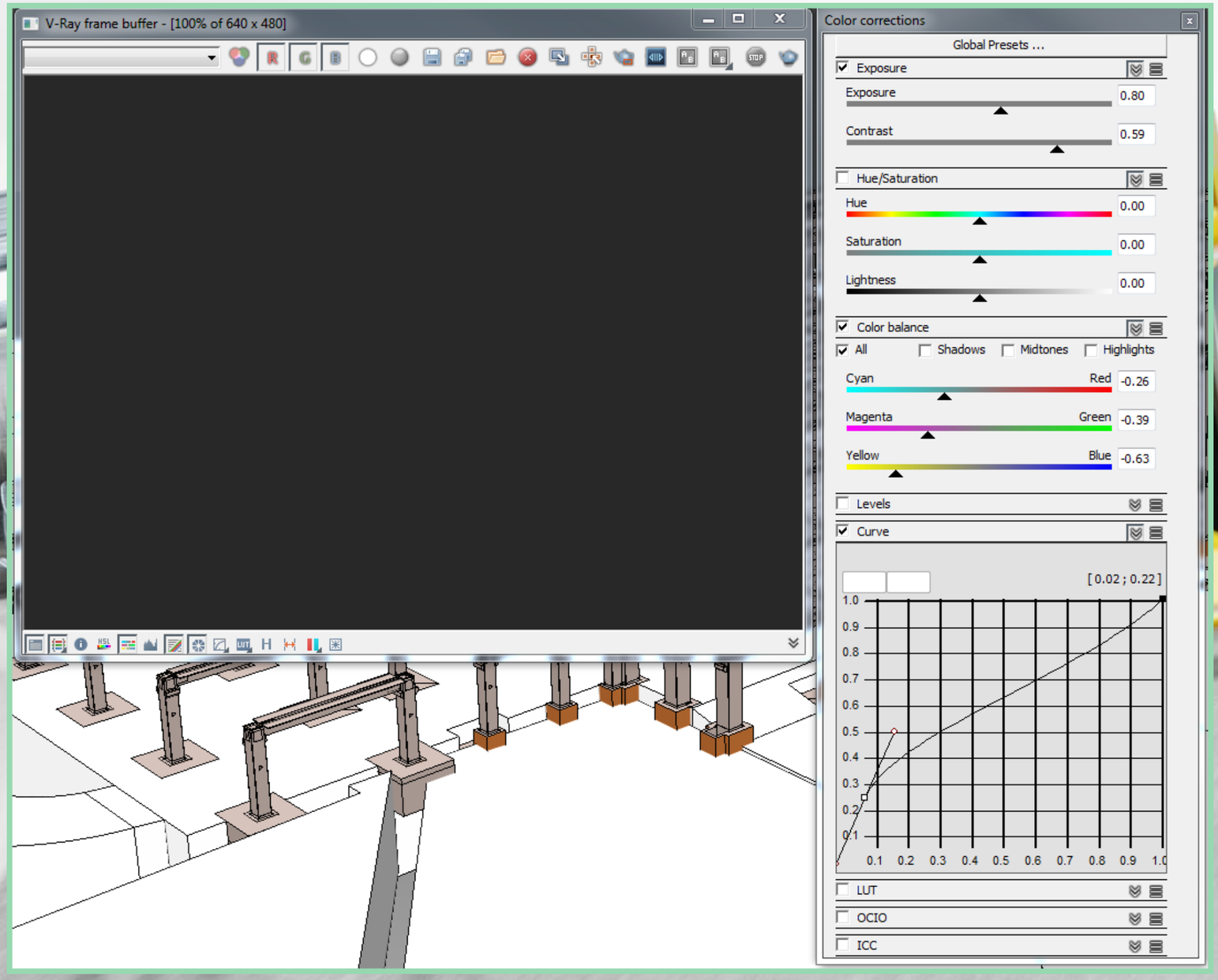

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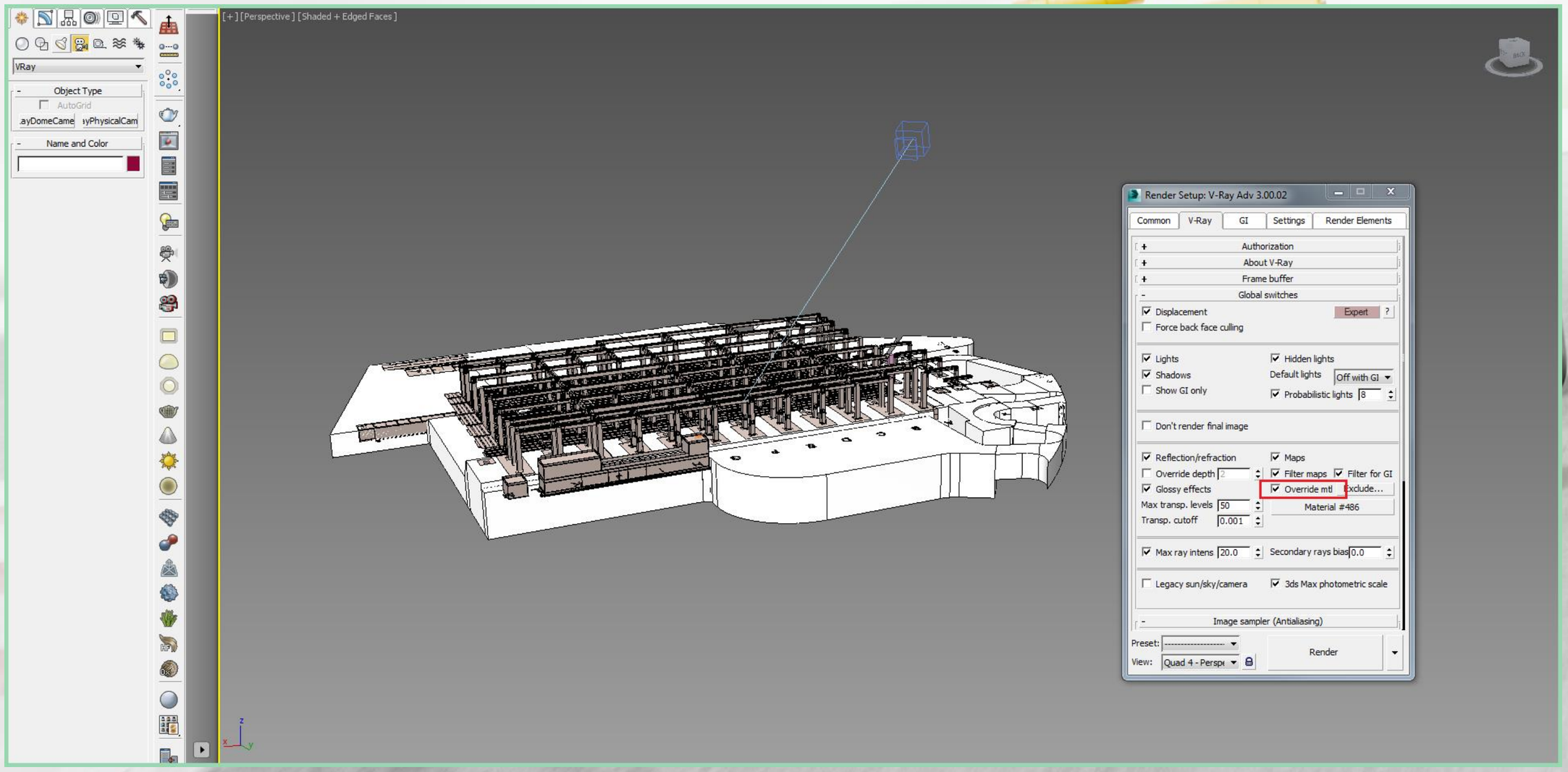

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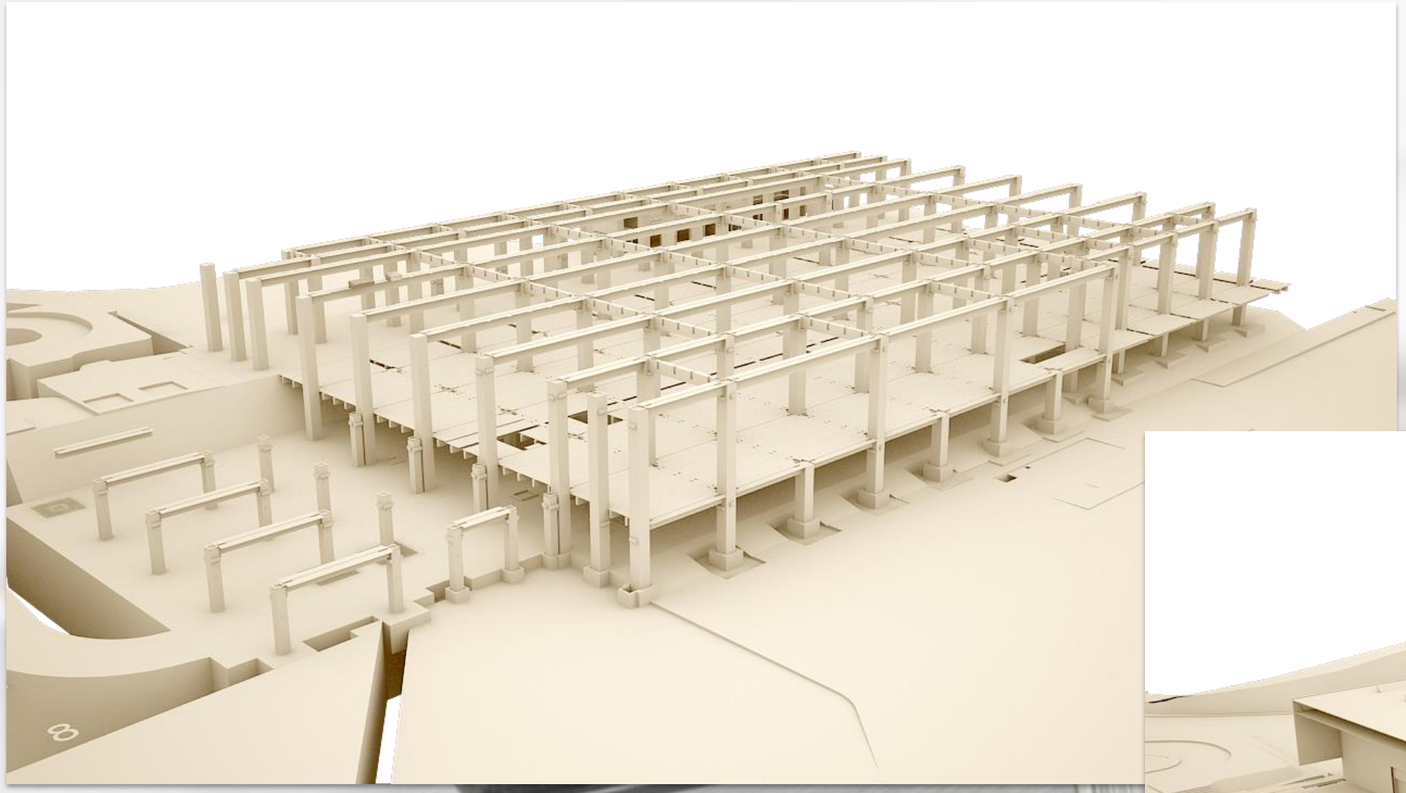


ICAbim

ICAbim / Flights_Reel_2014

Preproduction

Helicopter flight

- Bell 206

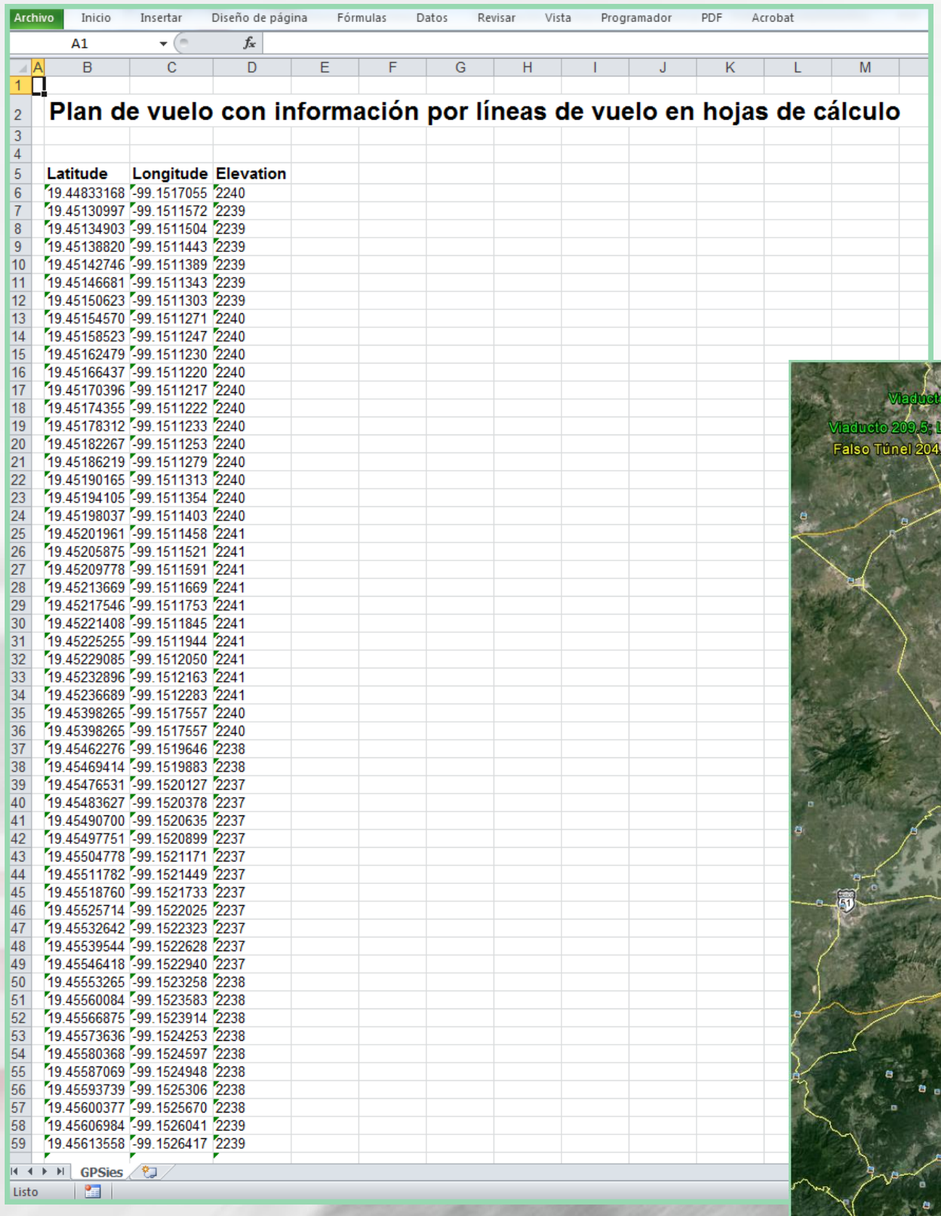
http://simple.wikipedia.org/wiki/Bell_206

- Eurocopter EC 130 B4

http://img.planespotters.net/photo/300000/original/SP-ERY-_PlanespottersNet_300635.jpg

Plan ahead

Google Earth KMZ



Plan de vuelo con información por líneas de vuelo en hojas de cálculo

Latitude	Longitude	Elevation
19.44833168	-99.1517055	2240
19.45130997	-99.1511572	2239
19.45134903	-99.1511504	2239
19.45138820	-99.1511443	2239
19.45142746	-99.1511389	2239
19.45146681	-99.1511343	2239
19.45150623	-99.1511303	2239
19.45154570	-99.1511271	2240
19.45158523	-99.1511247	2240
19.45162479	-99.1511230	2240
19.45166437	-99.1511220	2240
19.45170396	-99.1511217	2240
19.45174355	-99.1511222	2240
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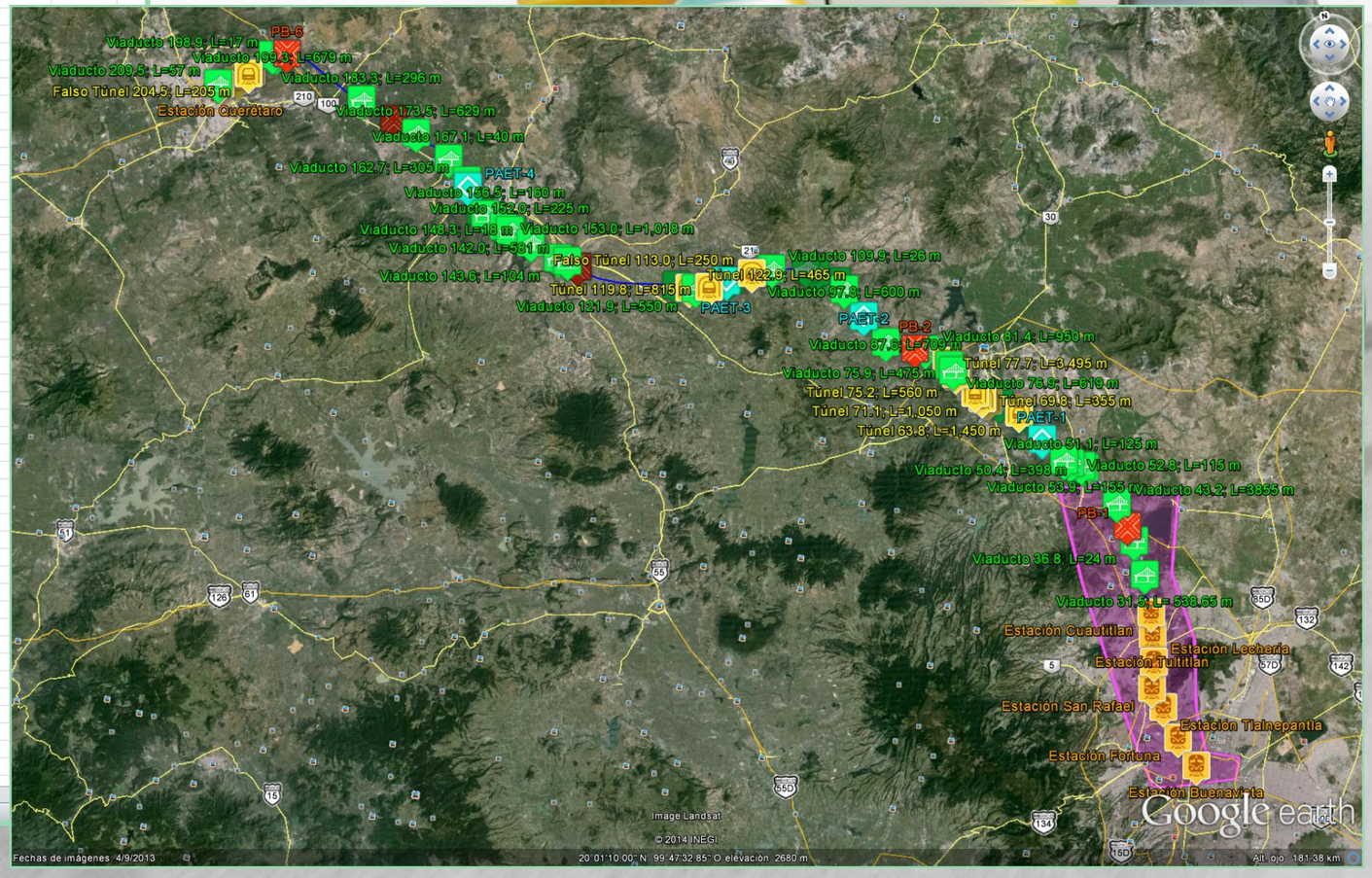
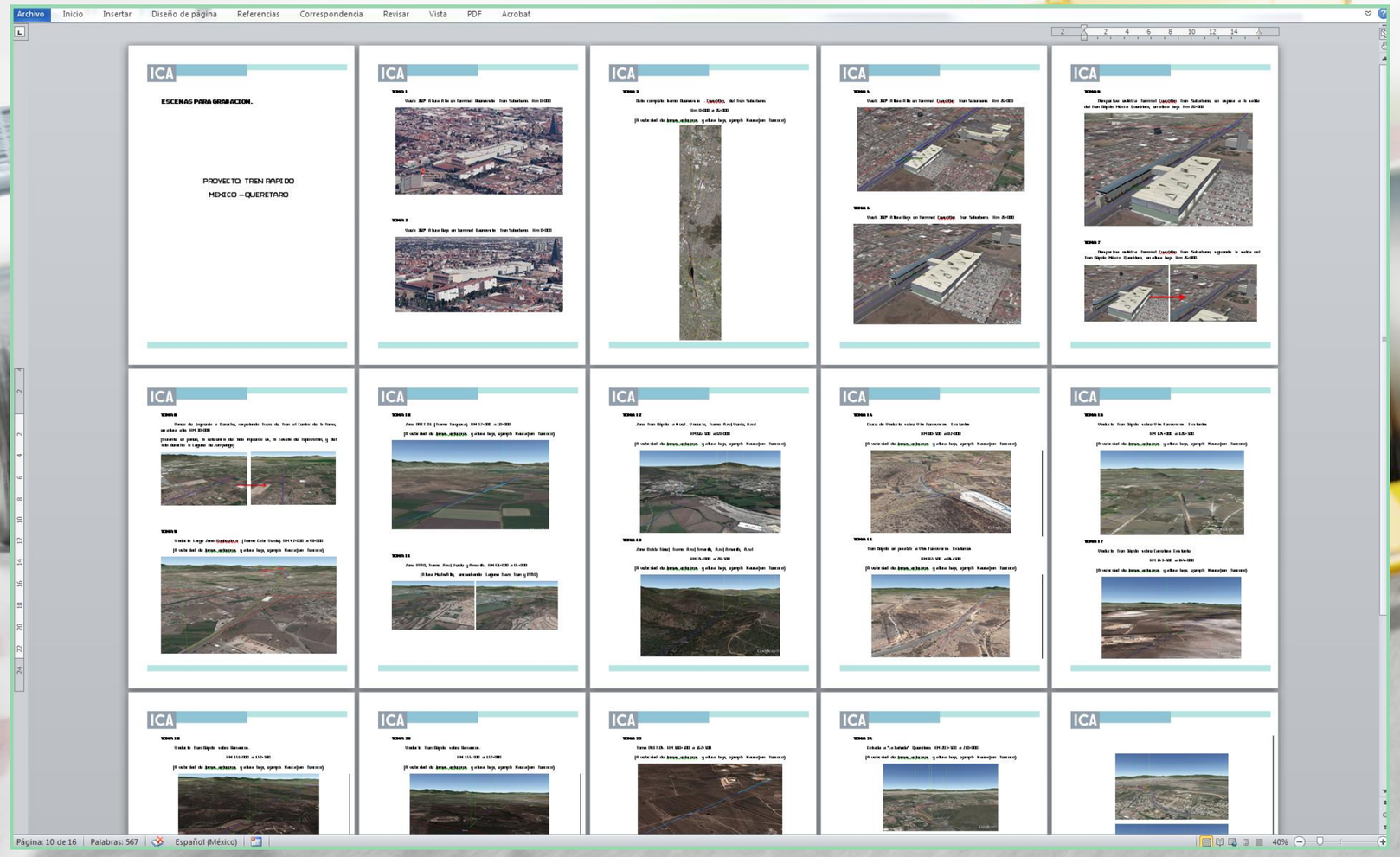
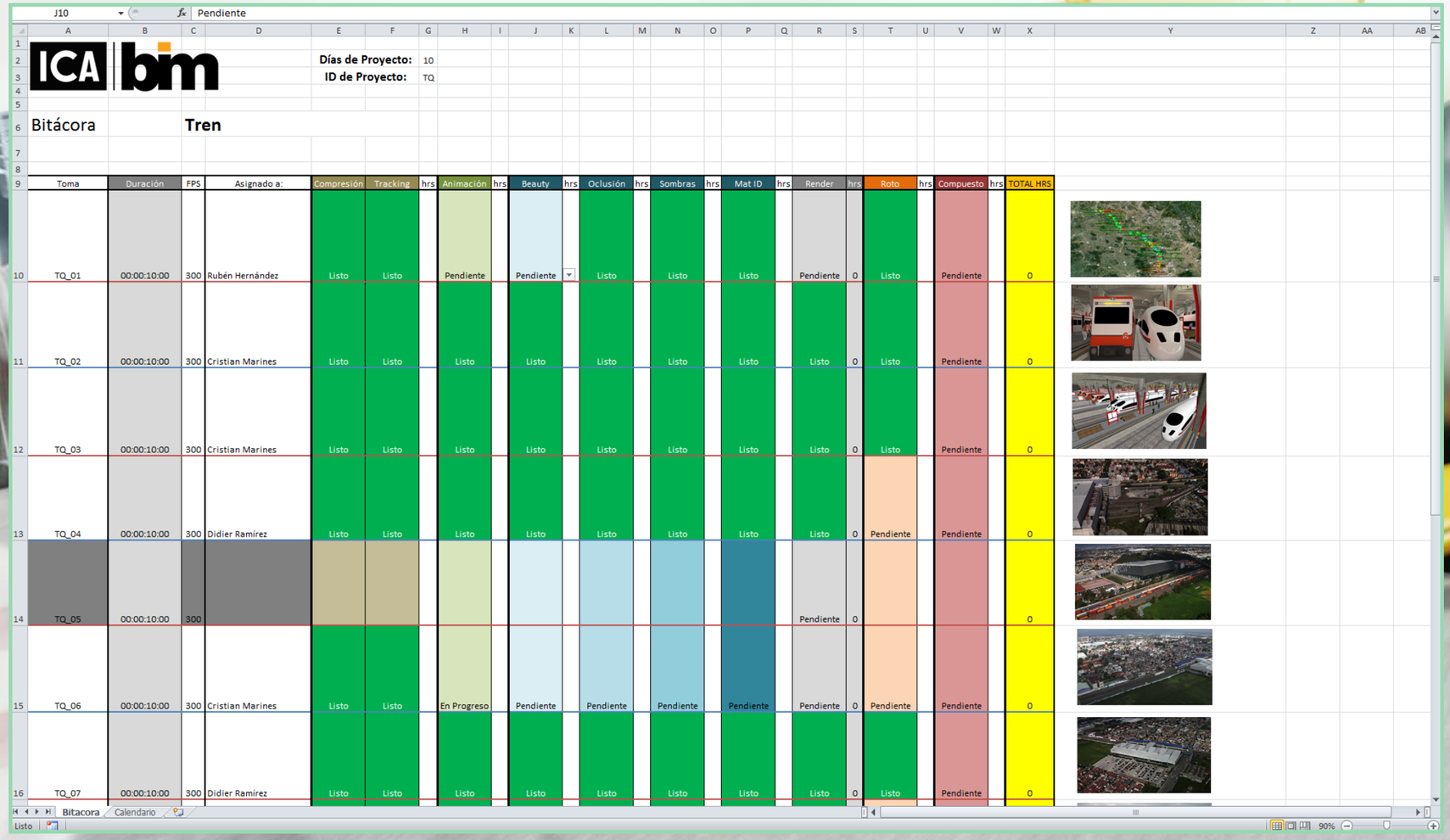


Microsoft Excel / Flight Plan



Microsoft Word / Storyboard



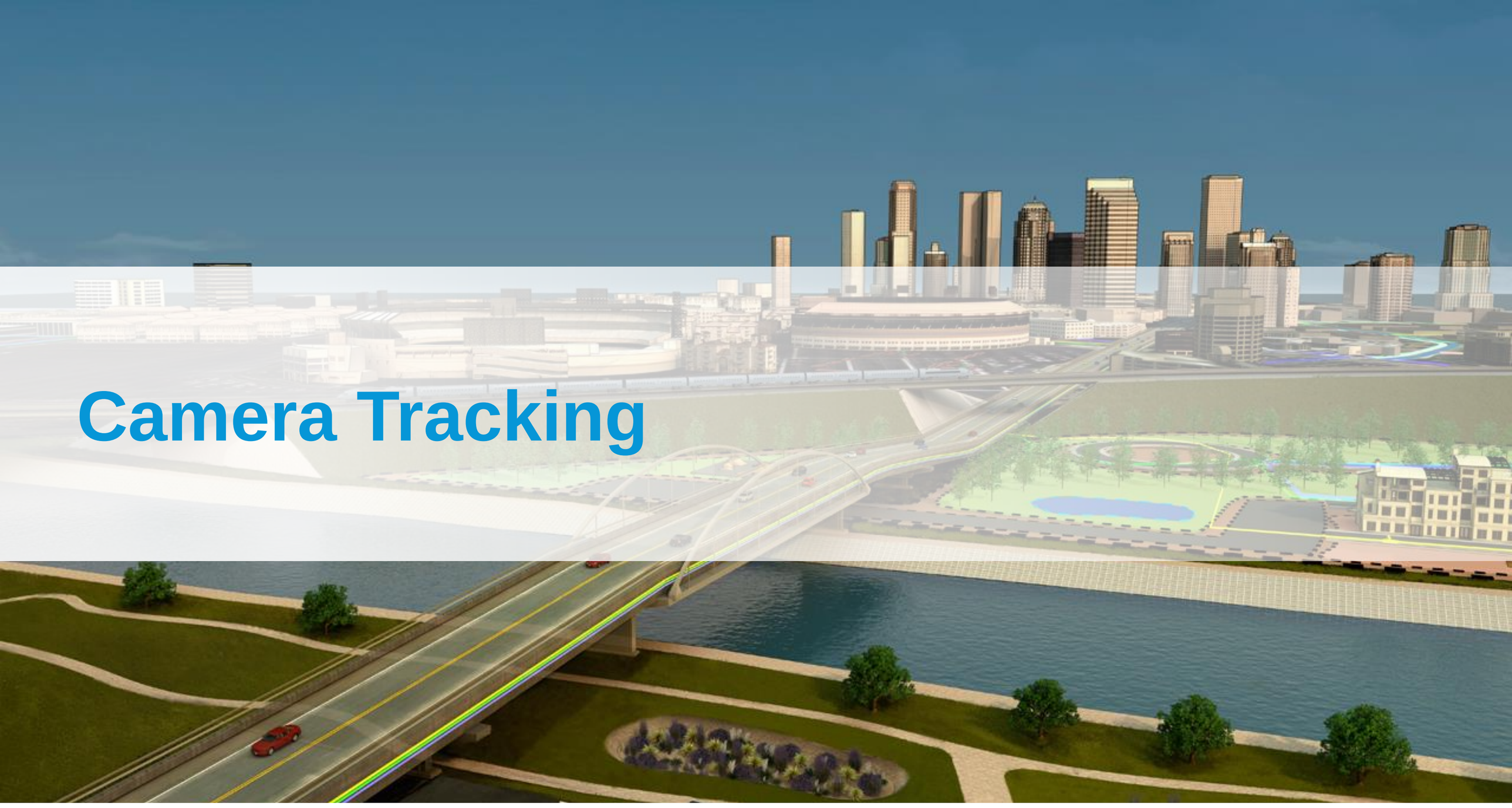
Días de Proyecto: 10
ID de Proyecto: TQ

Bitácora **Tren**

Toma	Duración	FPS	Asignado a:	Compresión	Tracking	hrs	Animación	hrs	Beauty	hrs	Oclusión	hrs	Sombras	hrs	Mat ID	hrs	Render	hrs	Roto	hrs	Compuesto	hrs	TOTAL HRS
TQ_01	00:00:10:00	300	Rubén Hernández	Listo	Listo		Pendiente		Pendiente		Listo		Listo		Listo		Pendiente	0	Listo		Pendiente		0
TQ_02	00:00:10:00	300	Cristian Marines	Listo	Listo		Listo		Listo		Listo		Listo		Listo		Listo	0	Listo		Pendiente		0
TQ_03	00:00:10:00	300	Cristian Marines	Listo	Listo		Listo		Listo		Listo		Listo		Listo		Listo	0	Listo		Pendiente		0
TQ_04	00:00:10:00	300	Didier Ramírez	Listo	Listo		Listo		Listo		Listo		Listo		Listo		Listo	0	Pendiente		Pendiente		0
TQ_05	00:00:10:00	300															Pendiente	0					0
TQ_06	00:00:10:00	300	Cristian Marines	Listo	Listo		En Progreso		Pendiente		Pendiente		Pendiente		Pendiente		Pendiente	0	Pendiente		Pendiente		0
TQ_07	00:00:10:00	300	Didier Ramírez	Listo	Listo		Listo		Listo		Listo		Listo		Listo		Listo	0	Listo		Pendiente		0

Microsoft Excel / Progress Management

Camera Tracking



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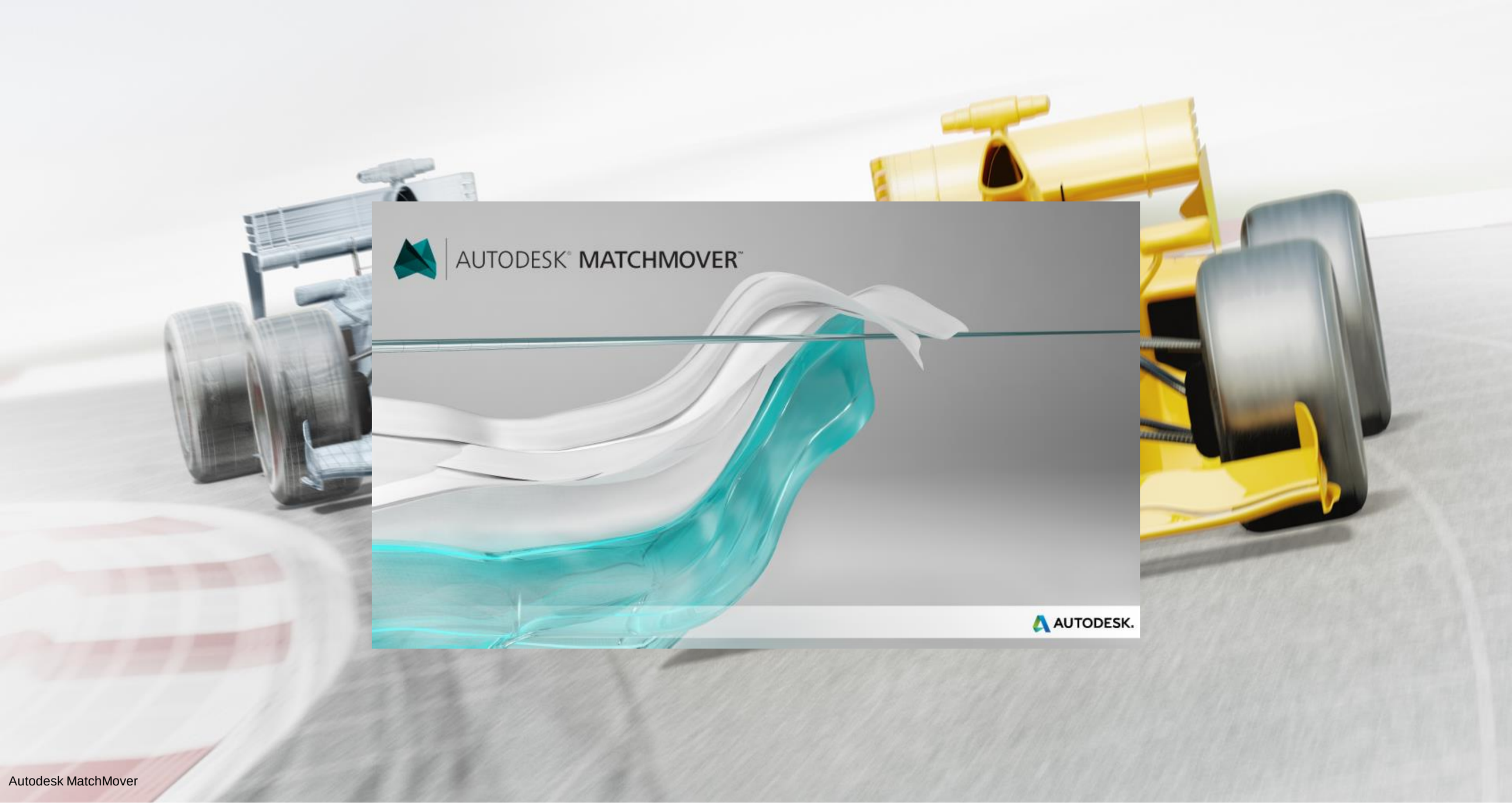
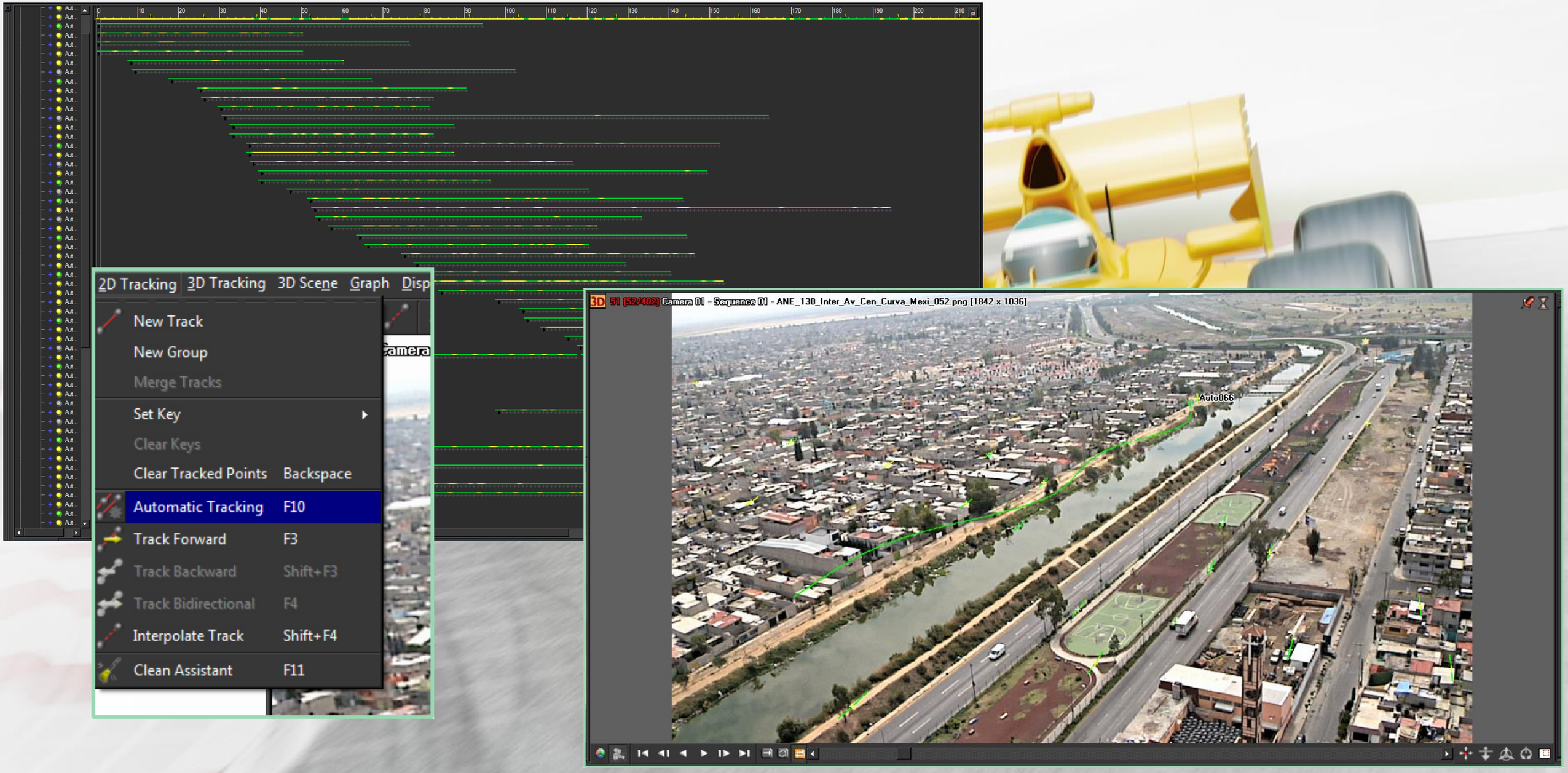
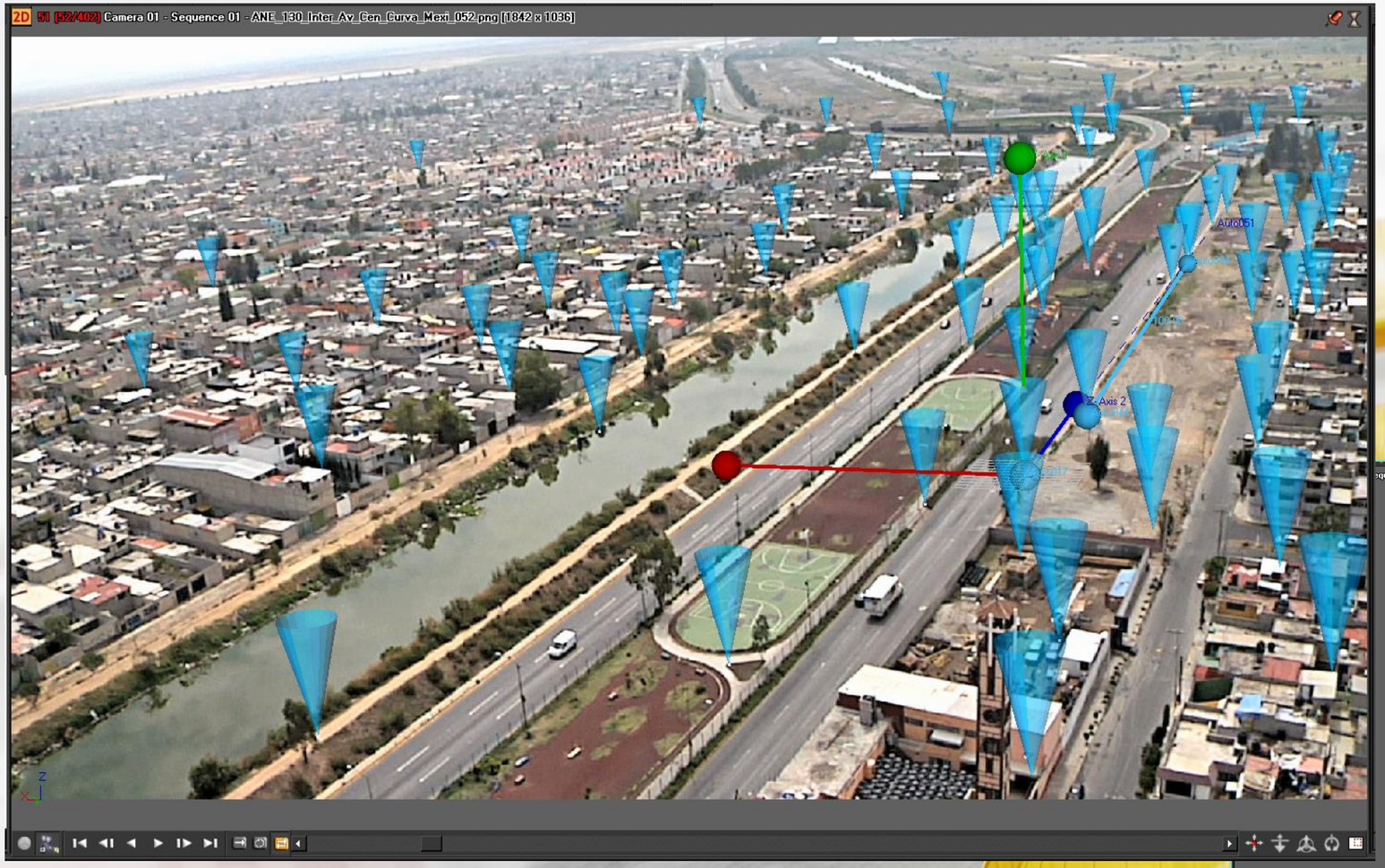
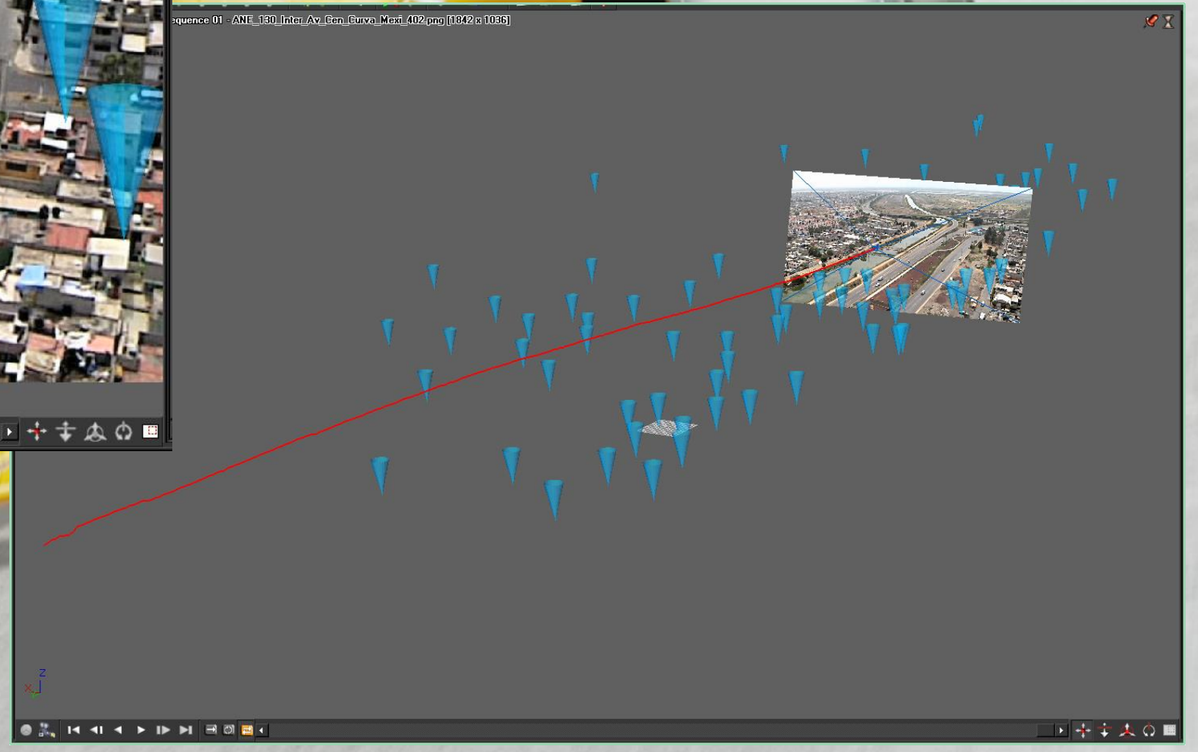


Autodesk MatchMover

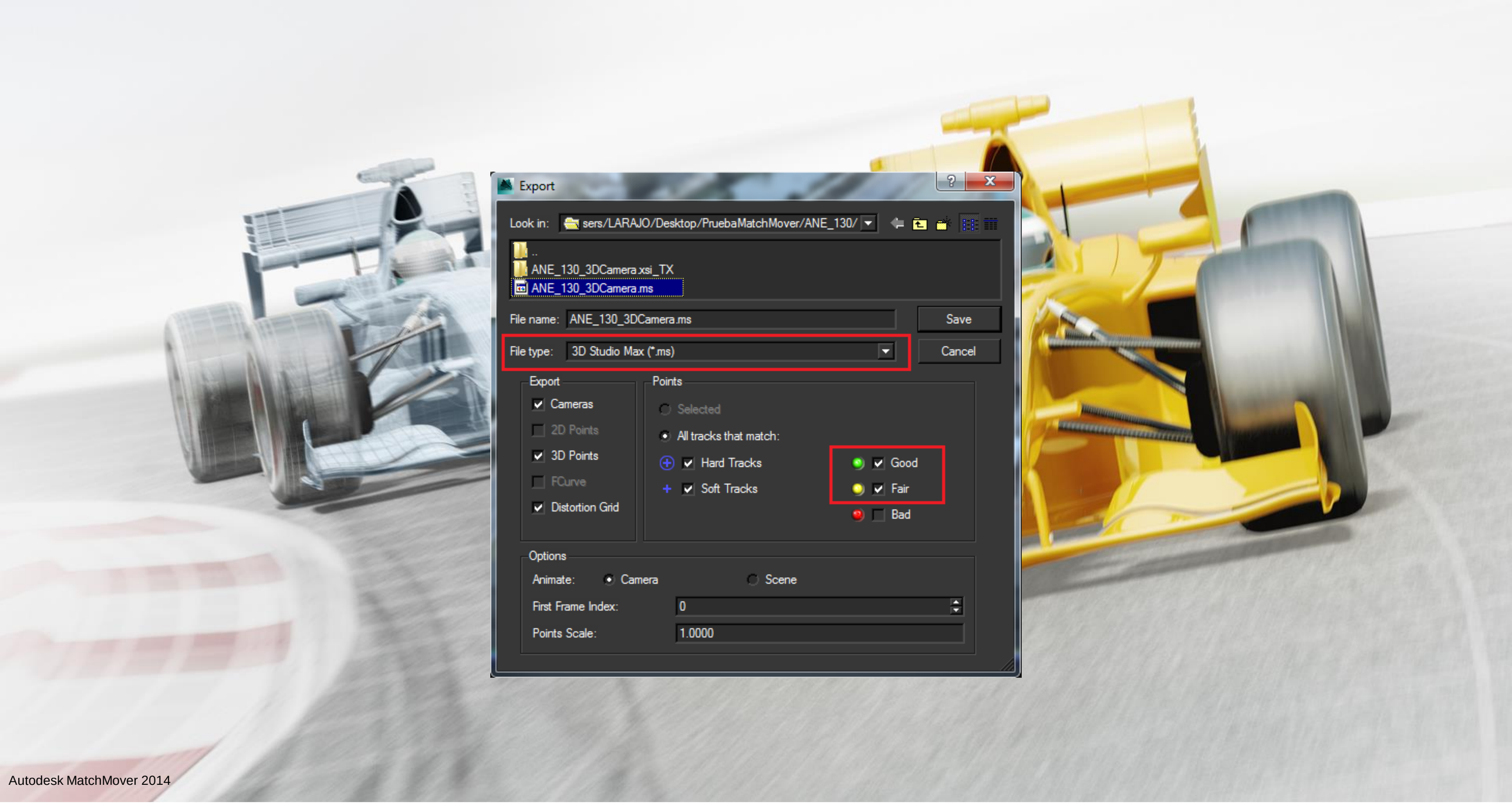


Autodesk MatchMover 2014





Autodesk MatchMover 2014



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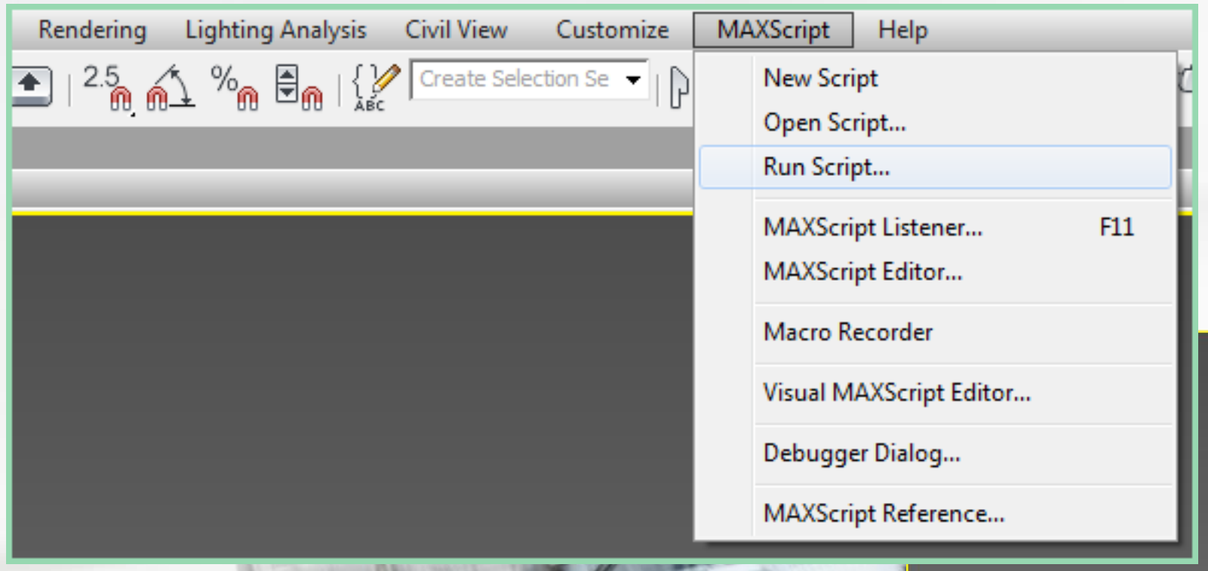
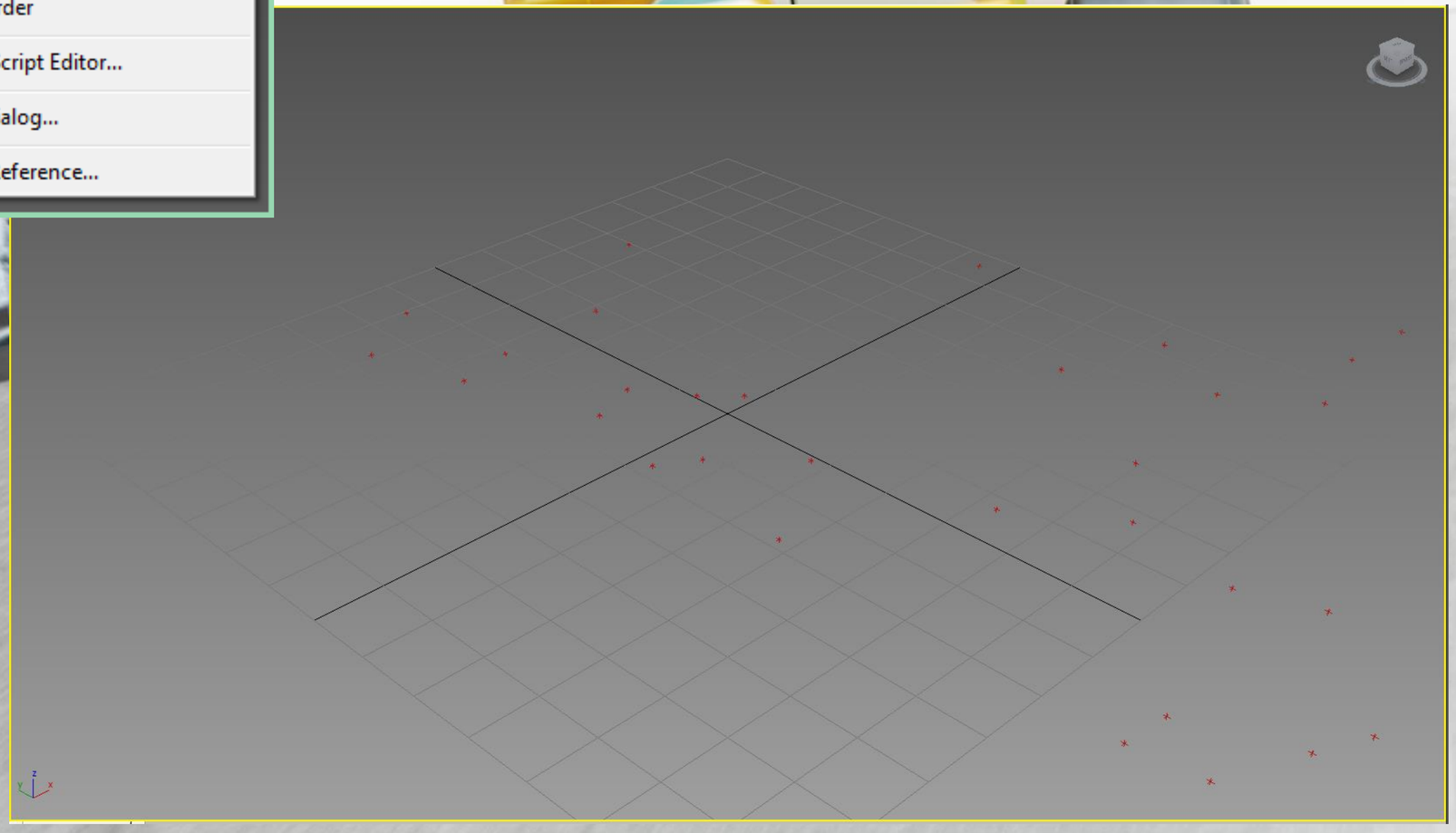
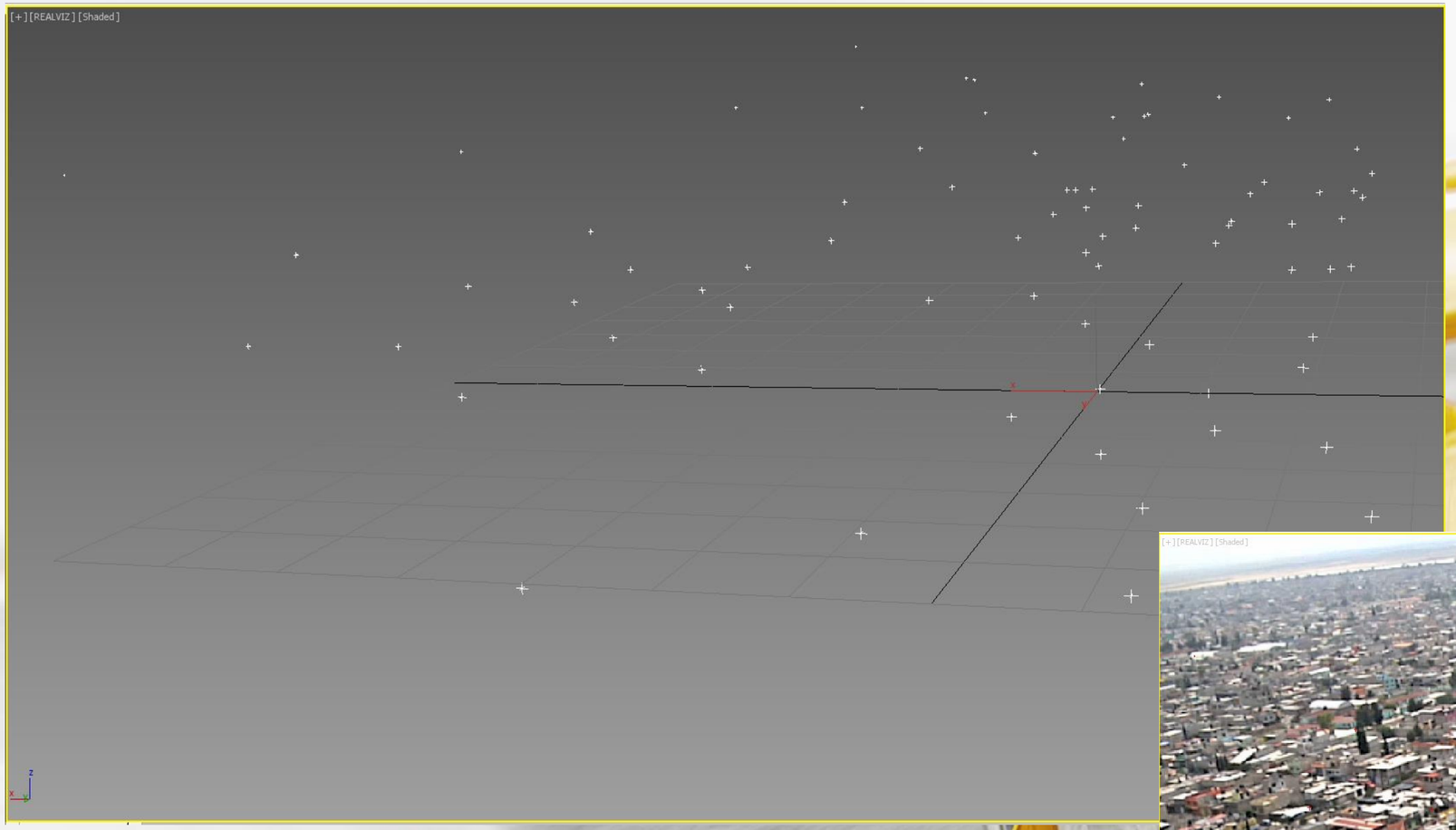


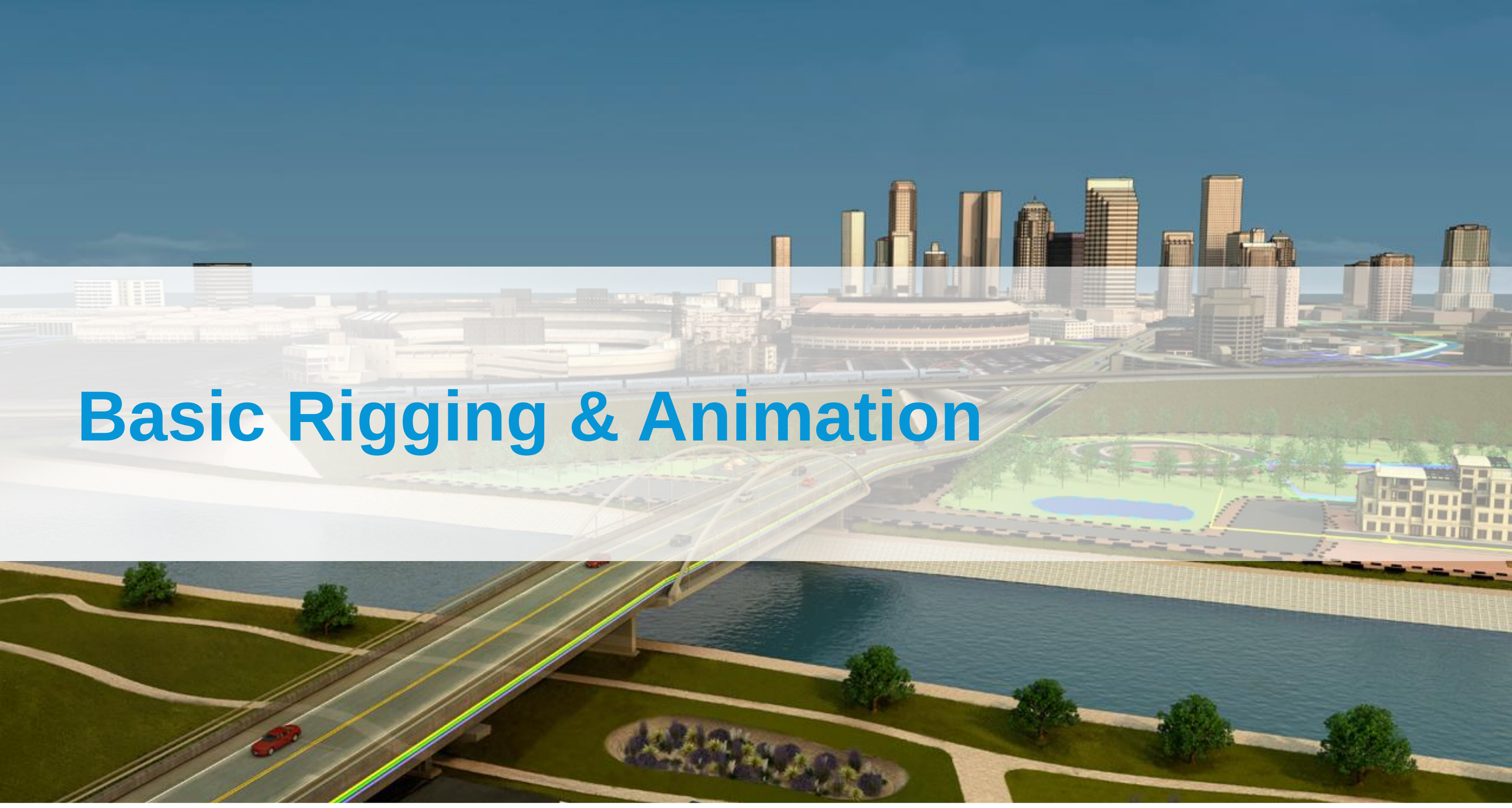


Autodesk 3ds Max Design 2014



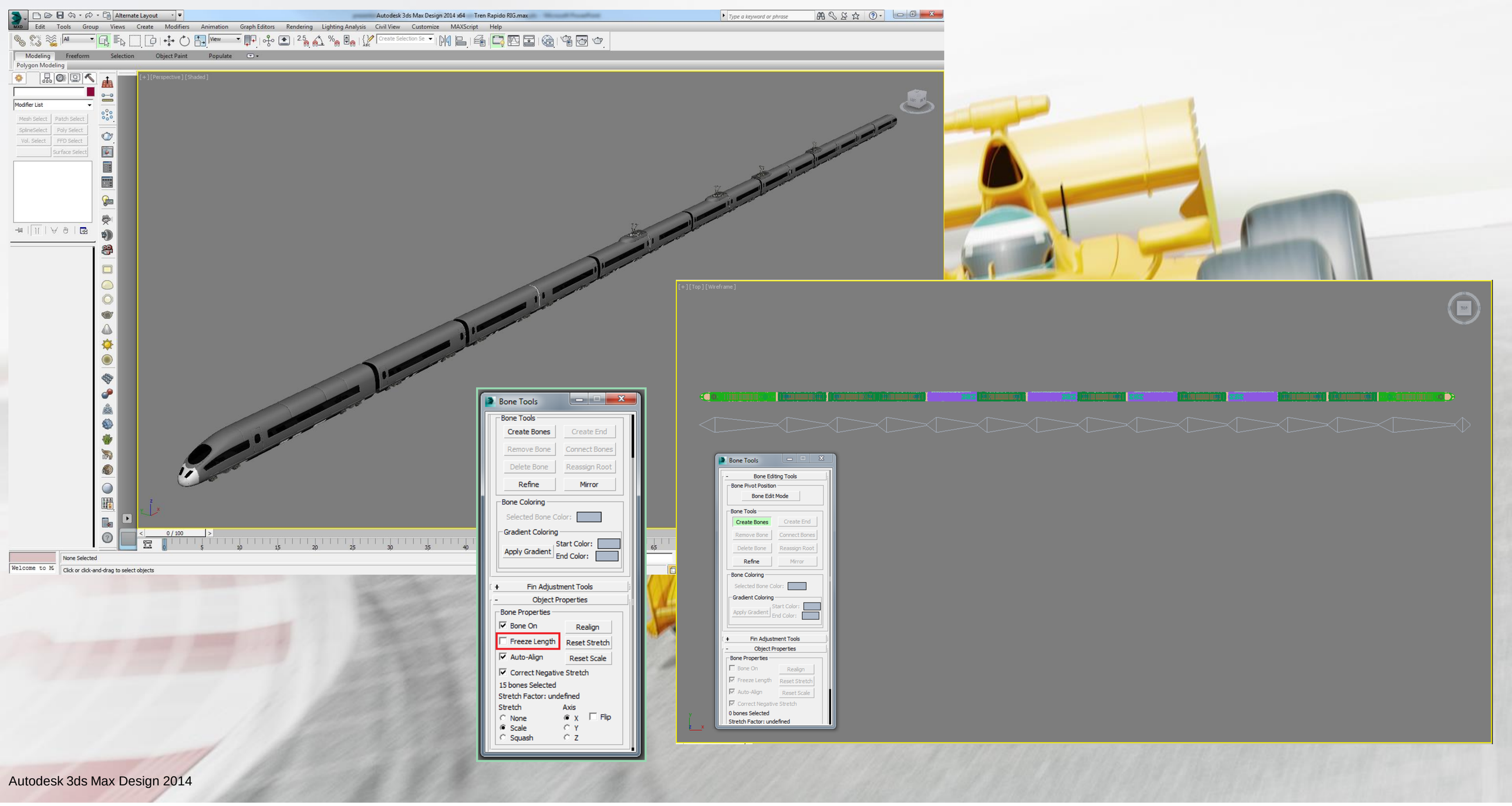
Autodesk 3ds Max Design 2014

Autodesk 3ds Max Design 2014 / Capture



Basic Rigging & Animation

Autodesk 3ds Max Design 2014



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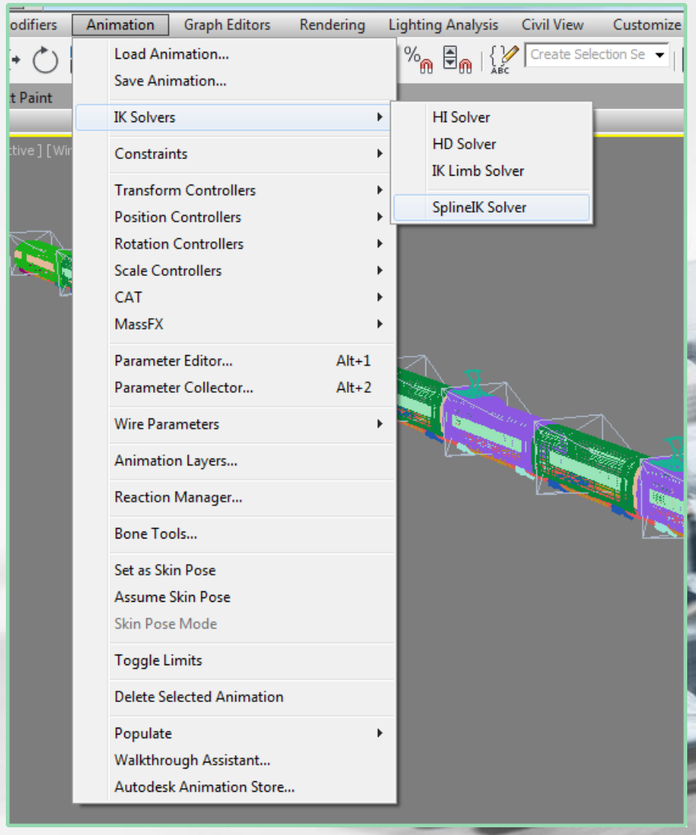

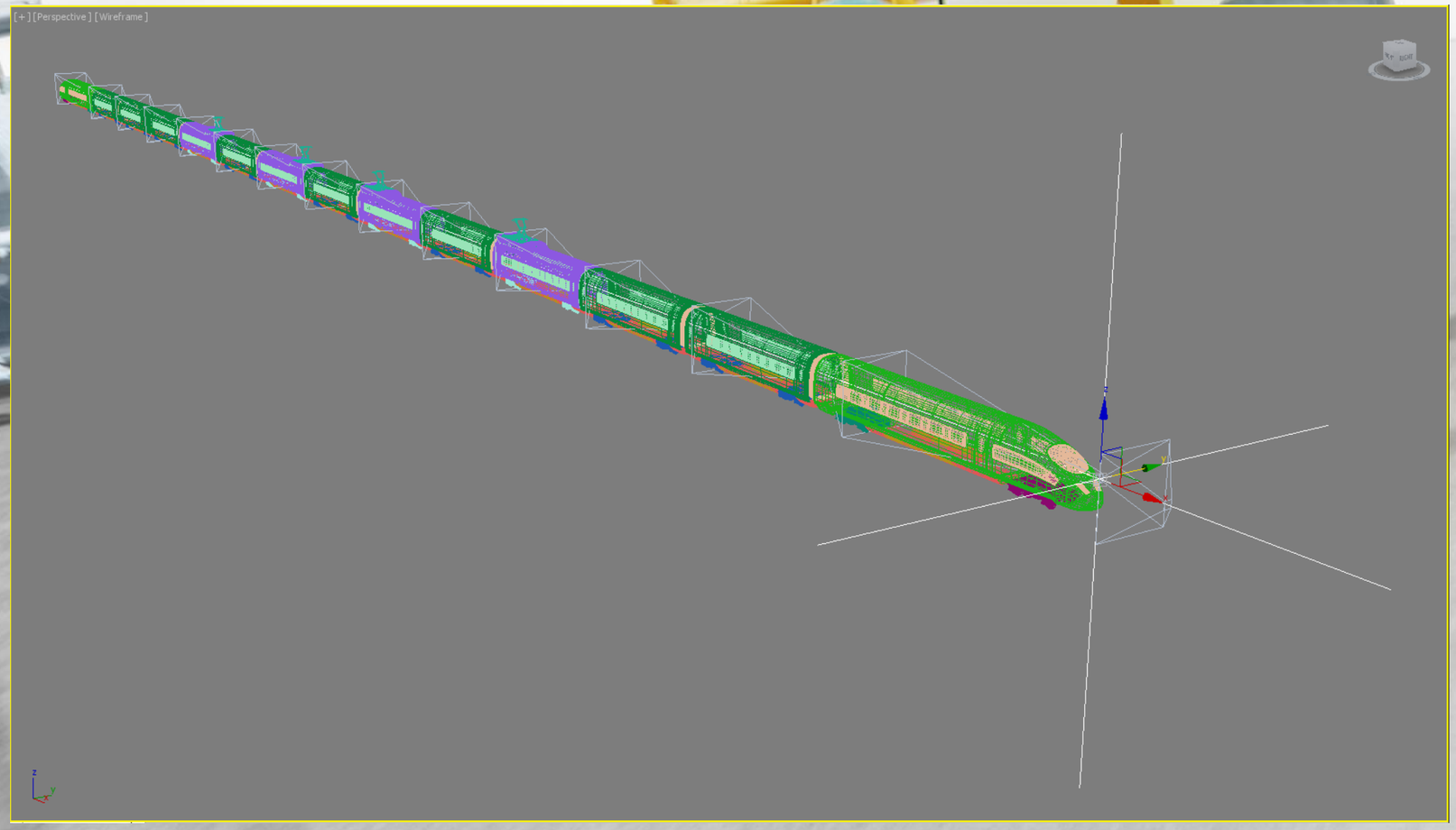

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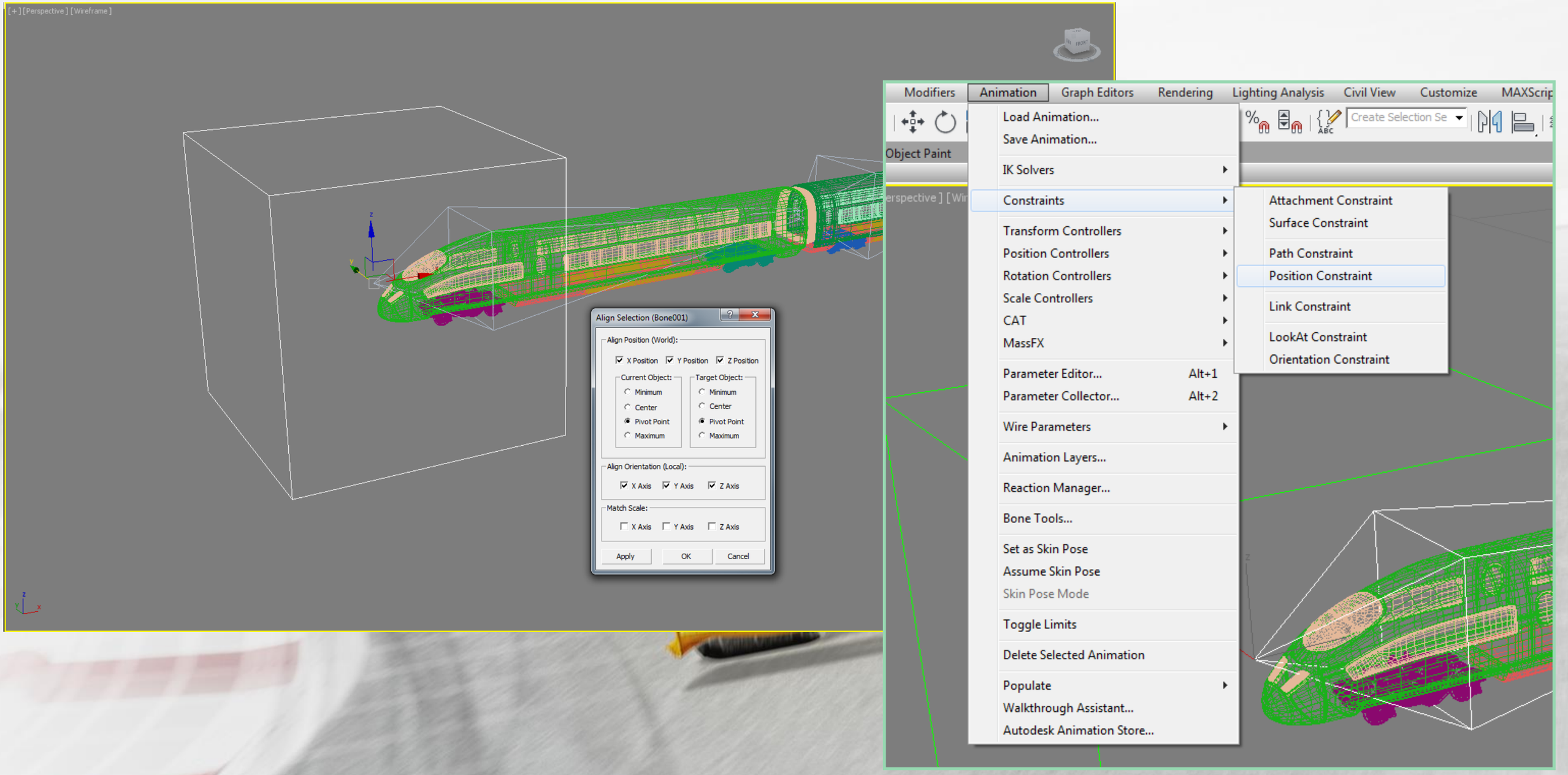

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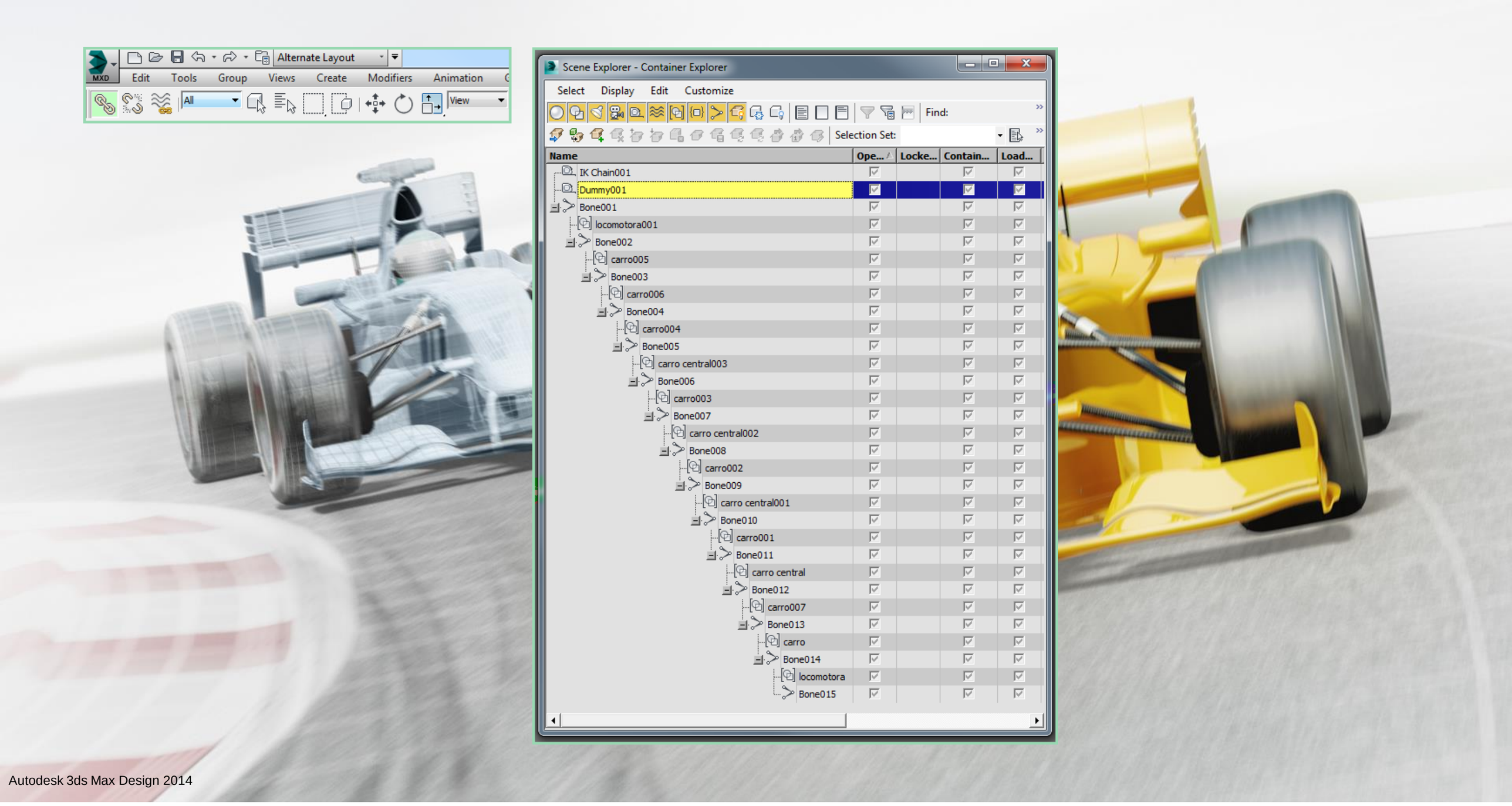

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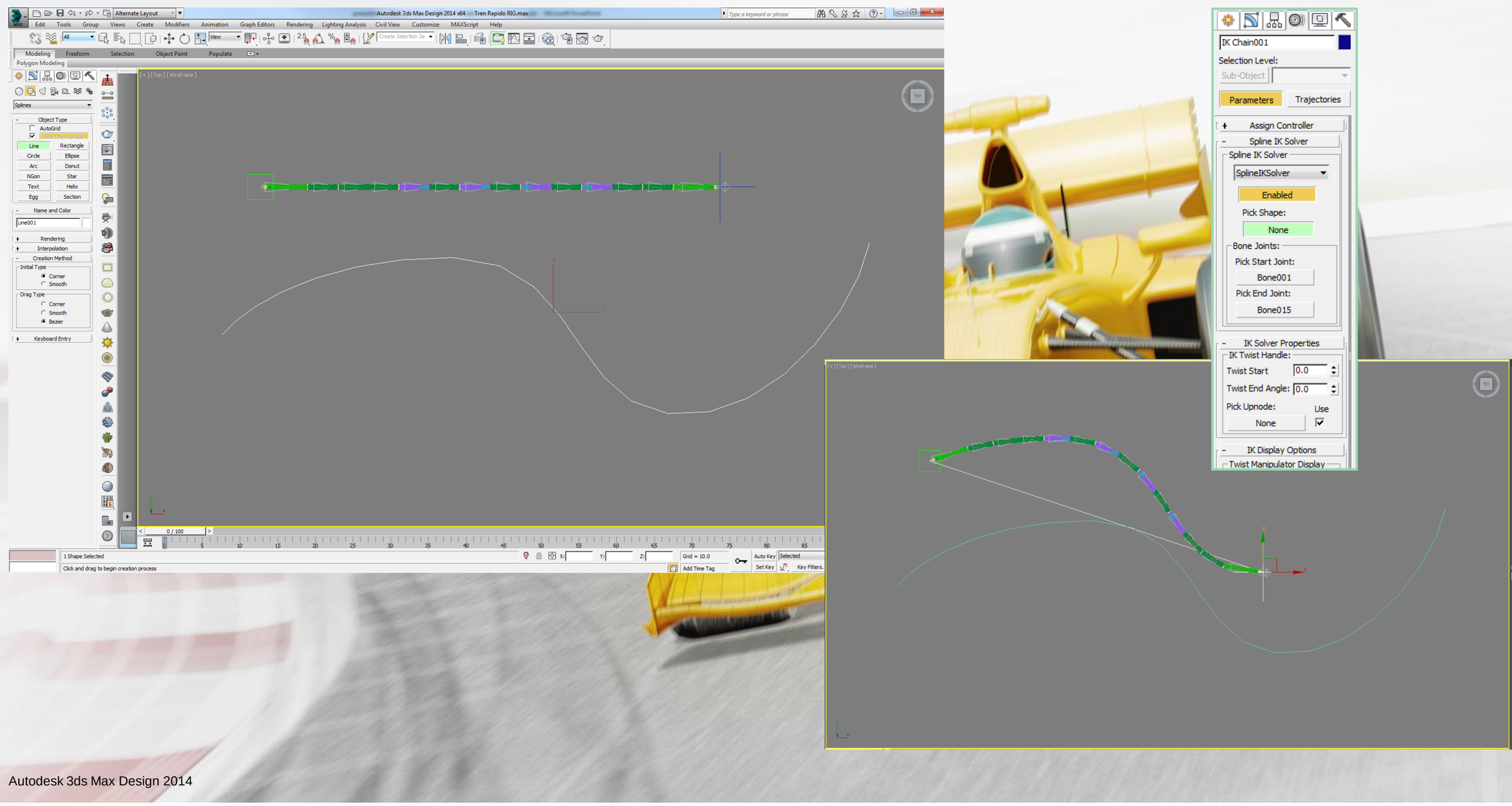

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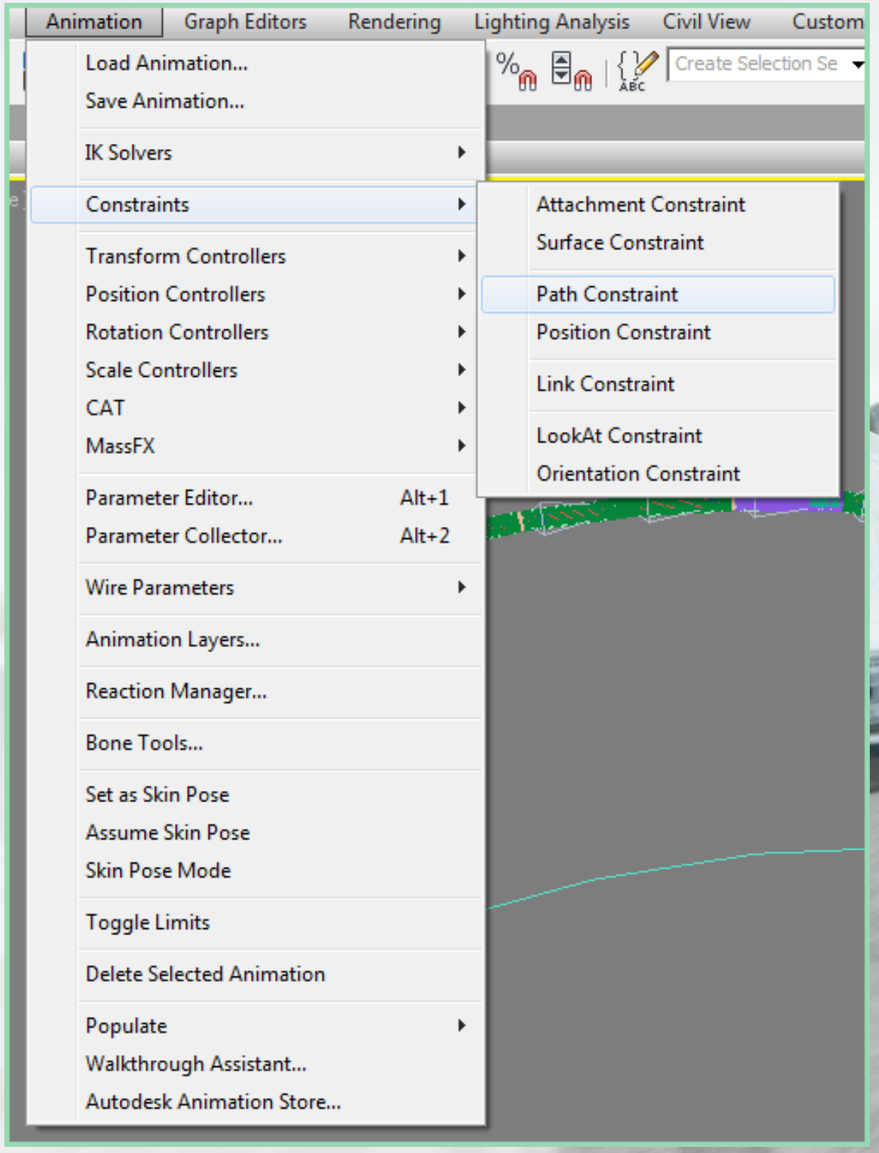

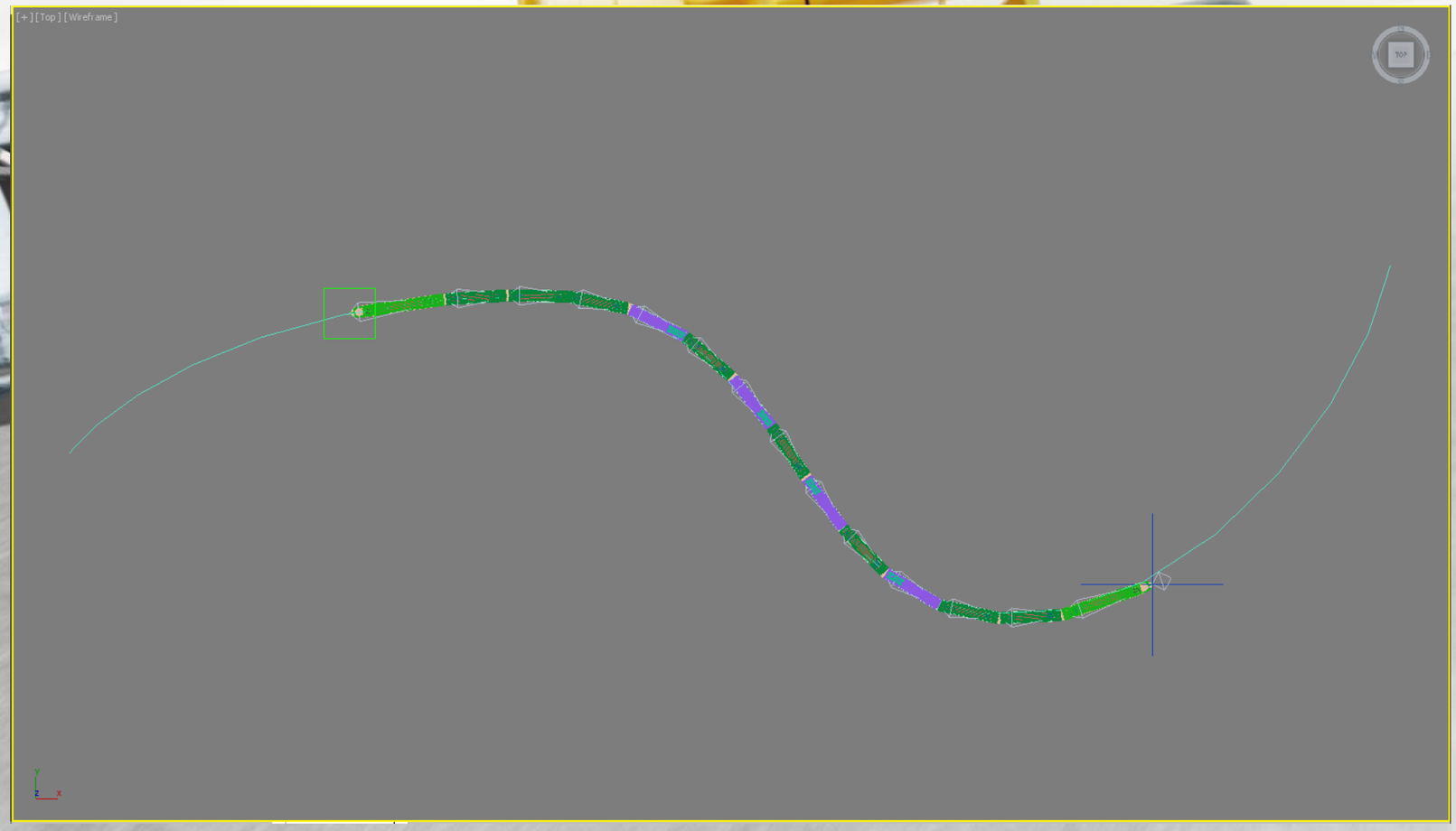

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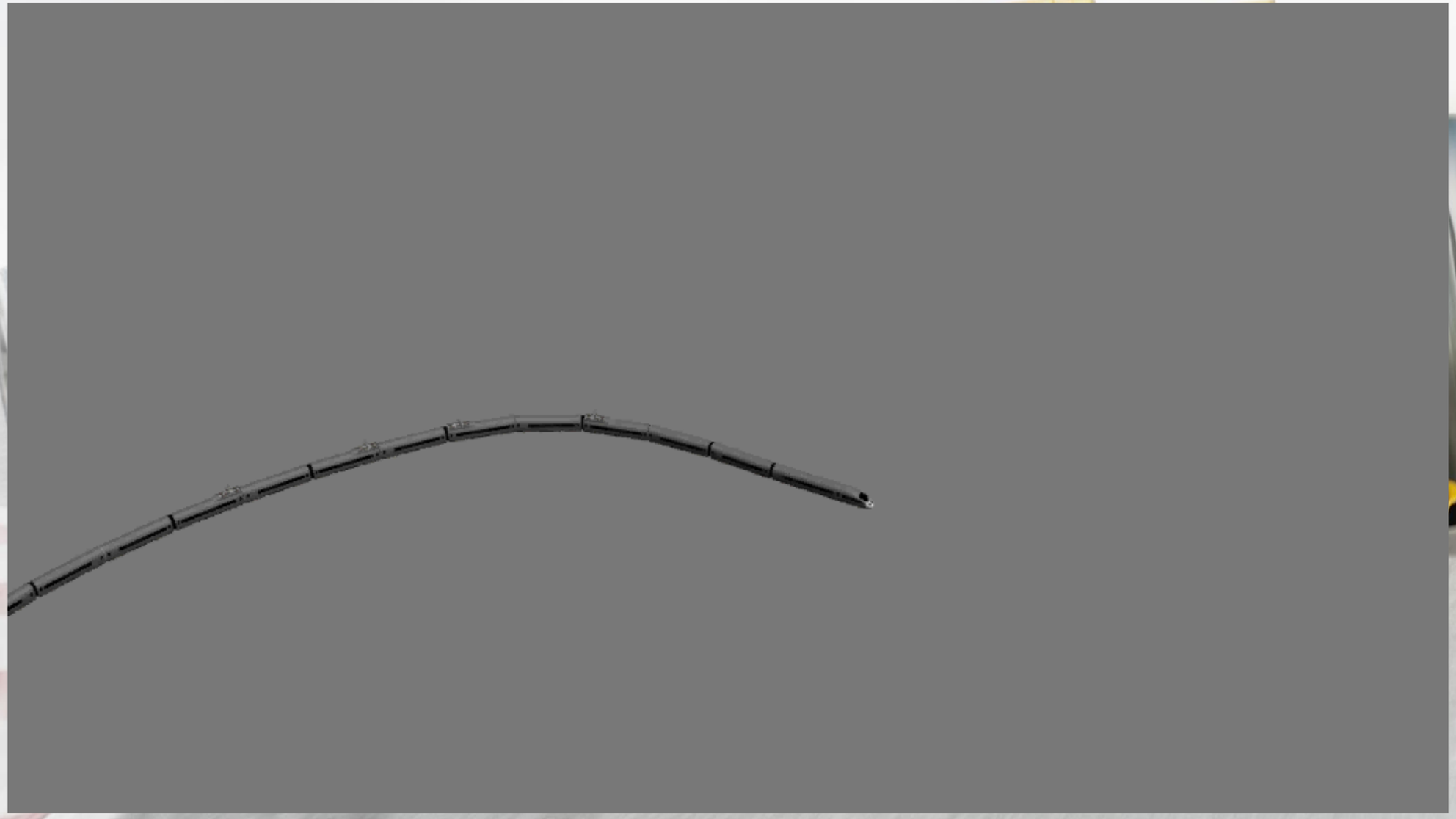
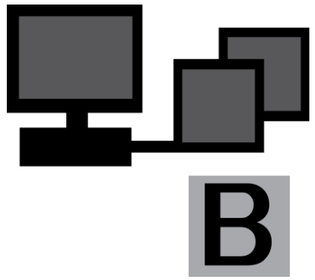
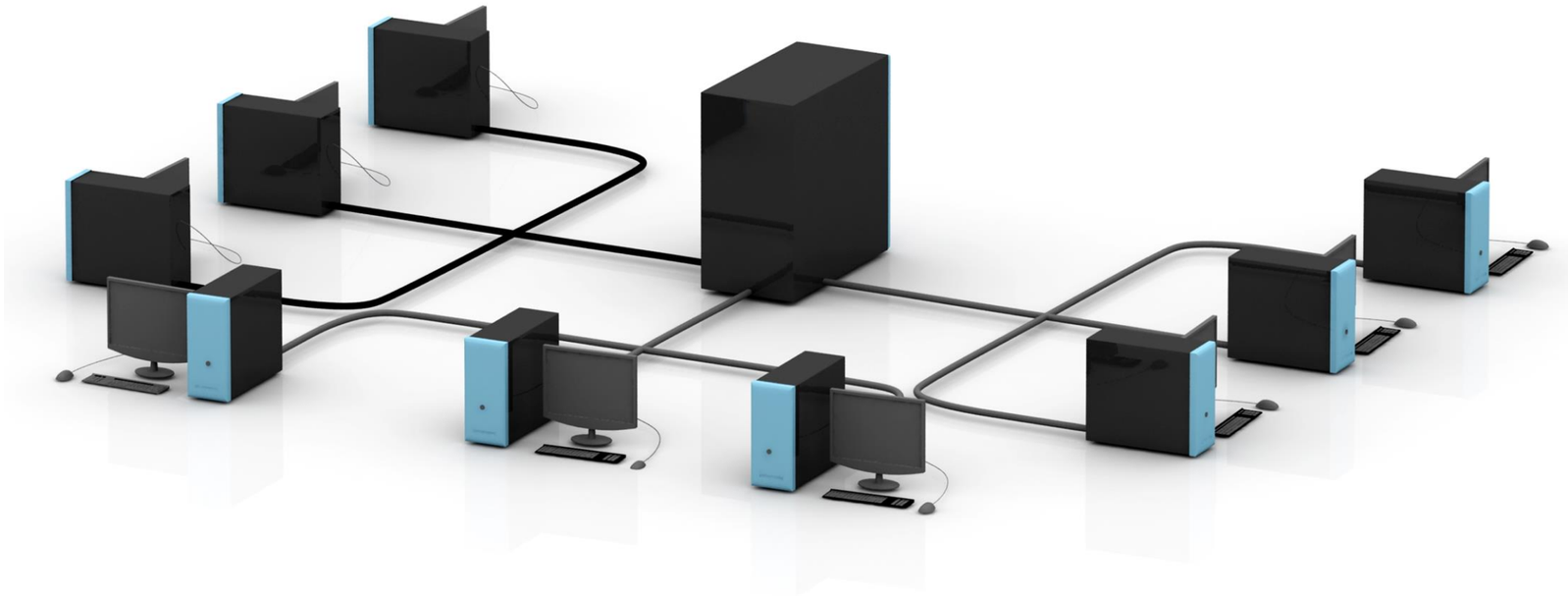


Autodesk 3ds Max Design 2014 / Capture

Render





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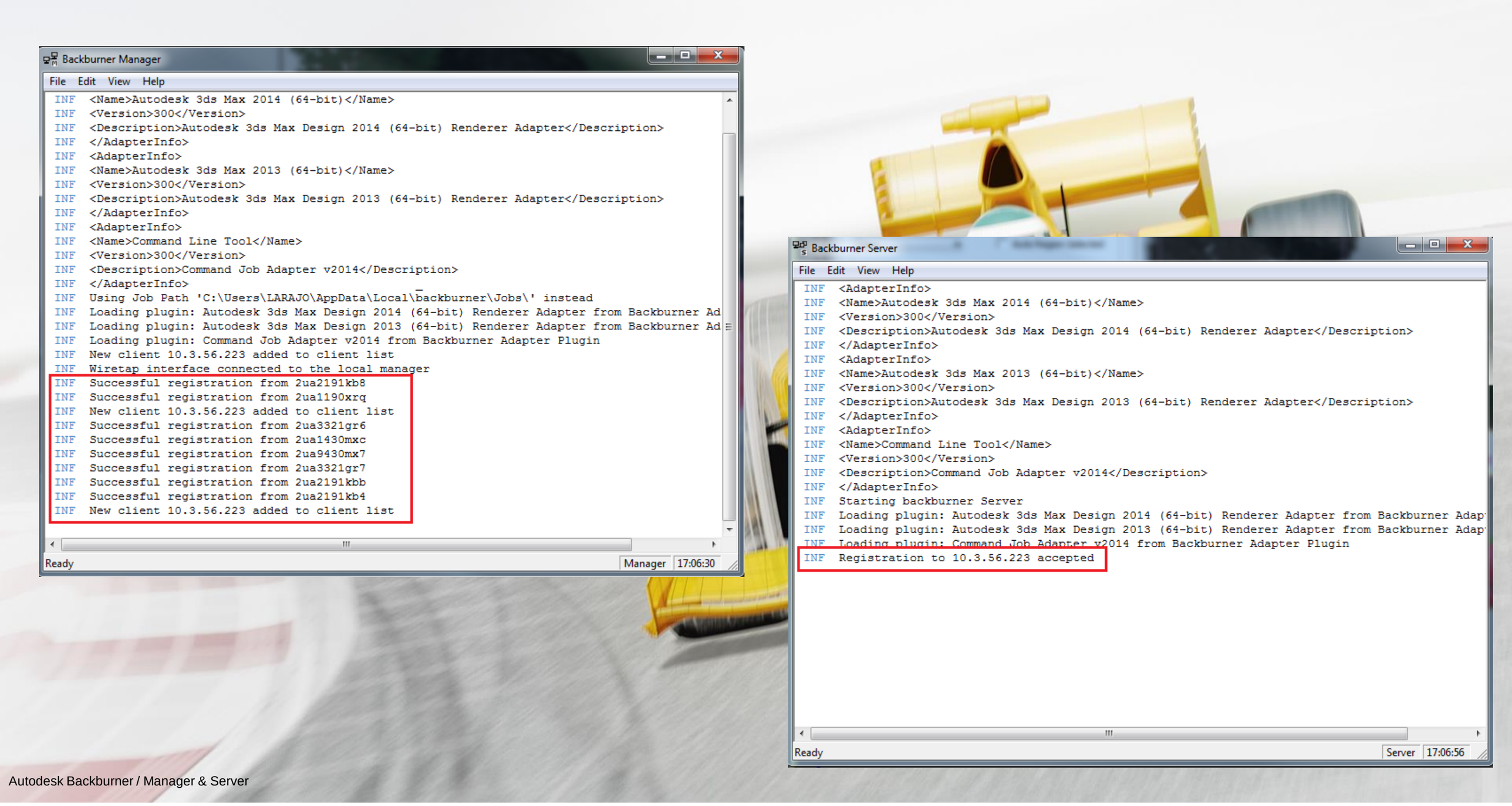
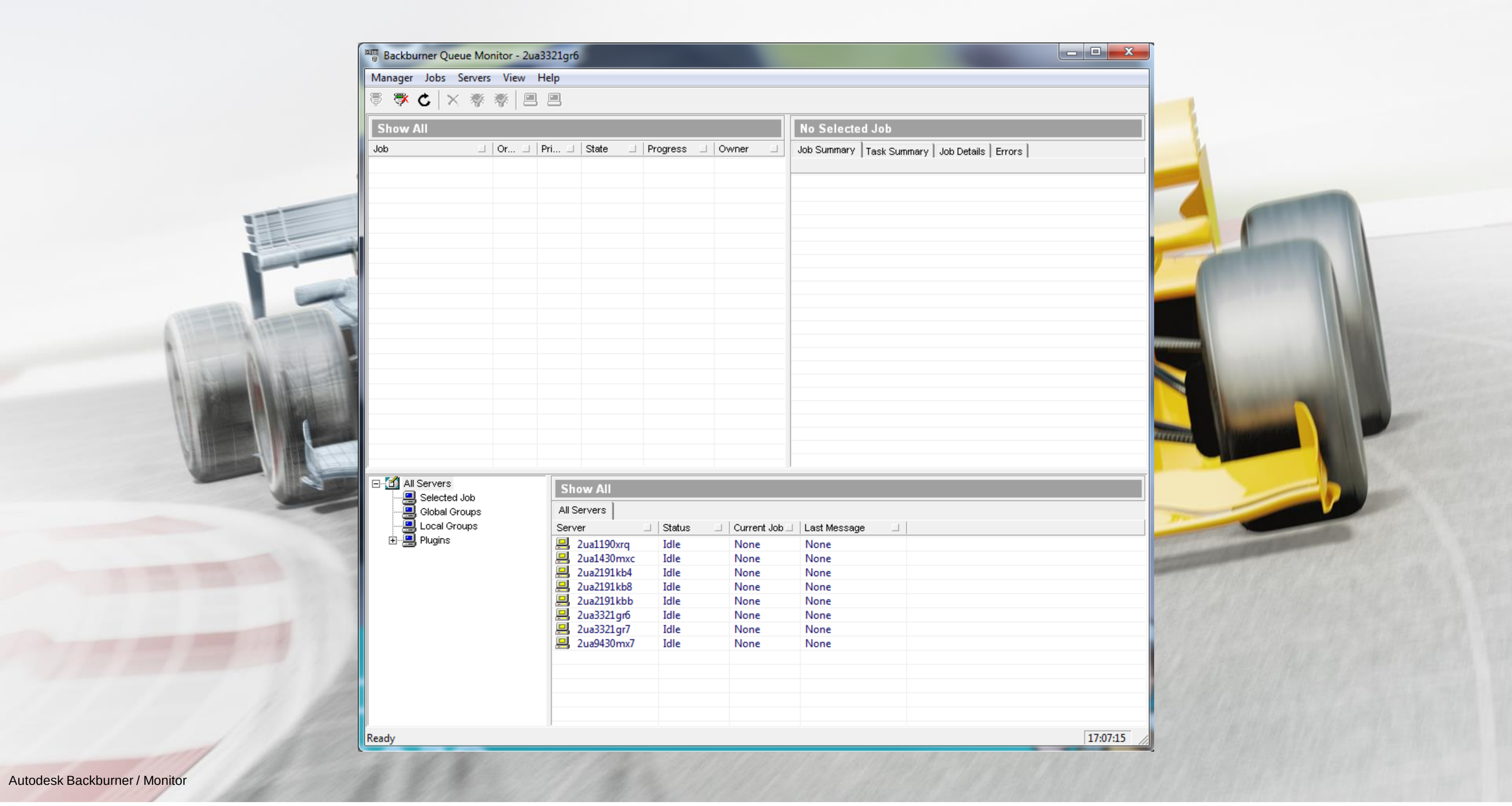
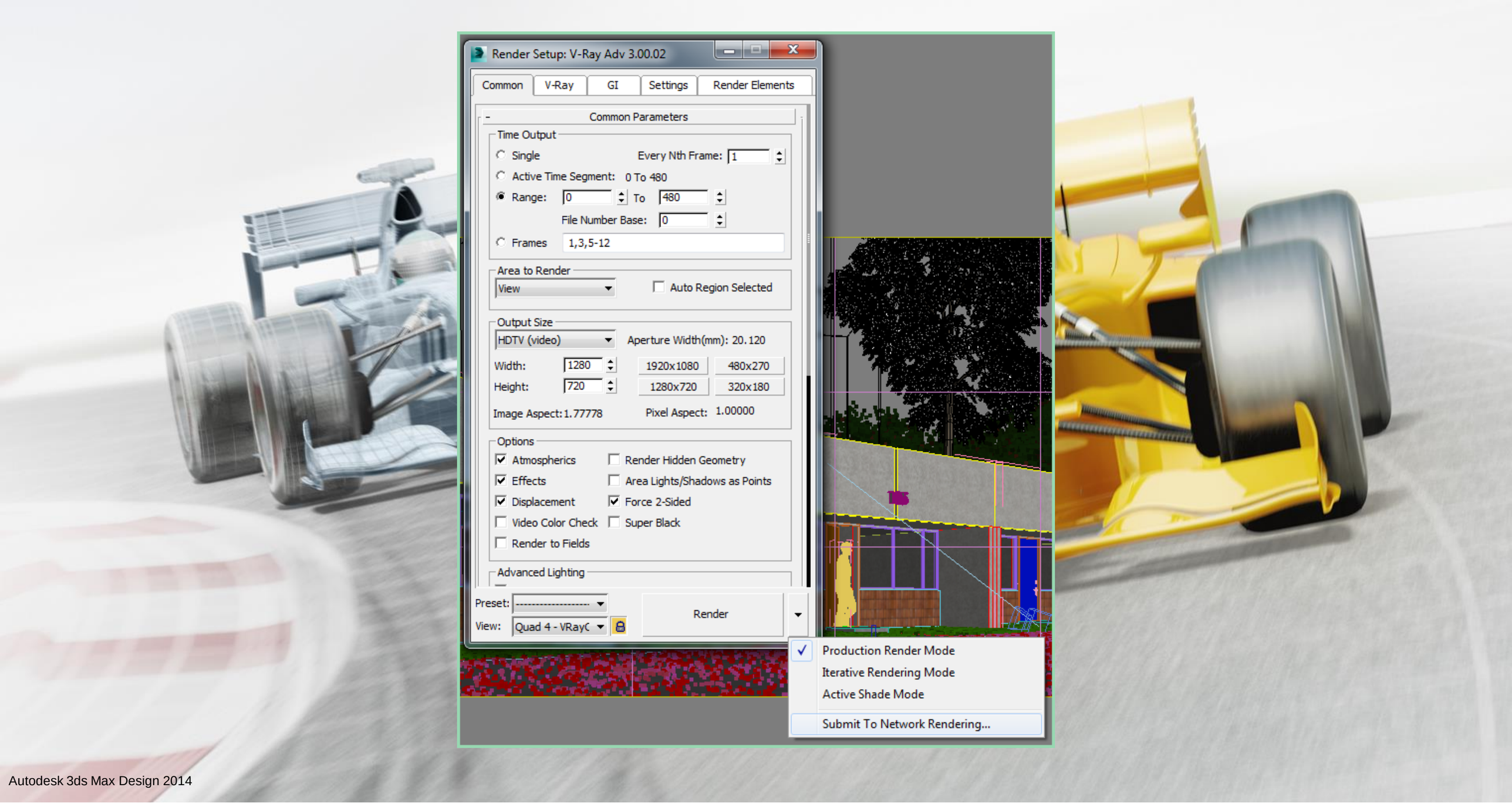


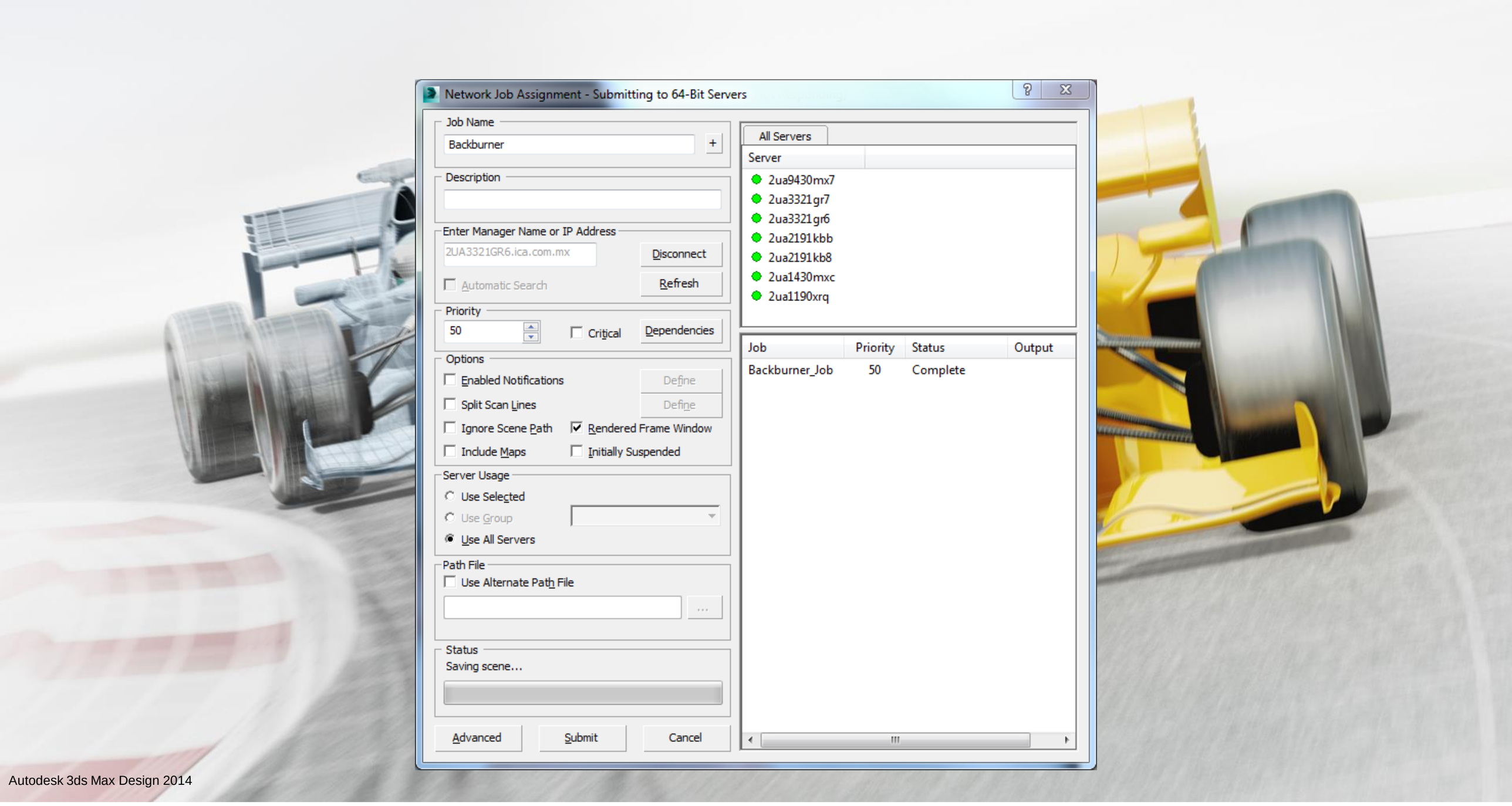
Autodesk Backburner / Manager & Server



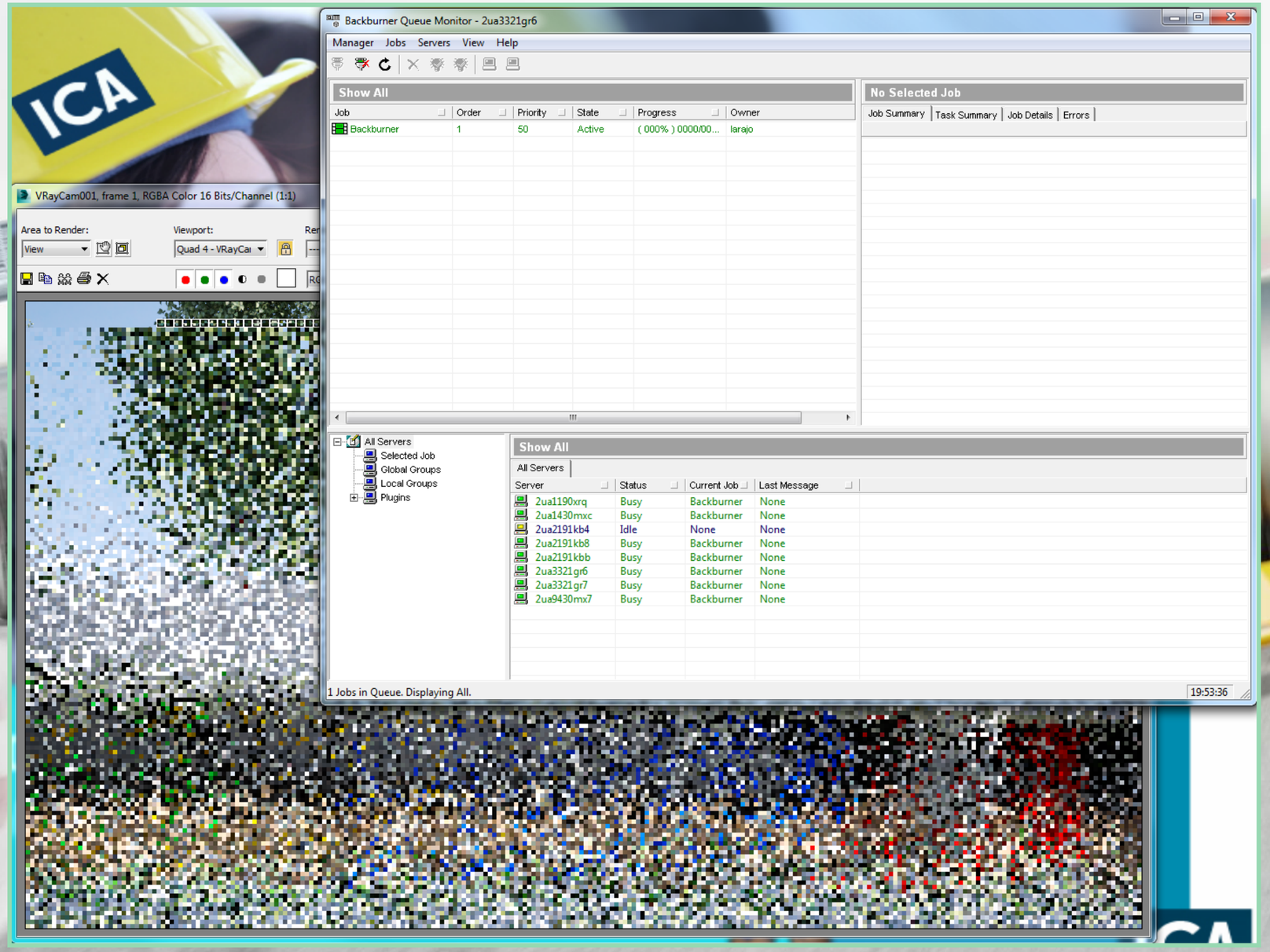
Autodesk Backburner / Monitor



Autodesk 3ds Max Design 2014



Autodesk 3ds Max Design 2014



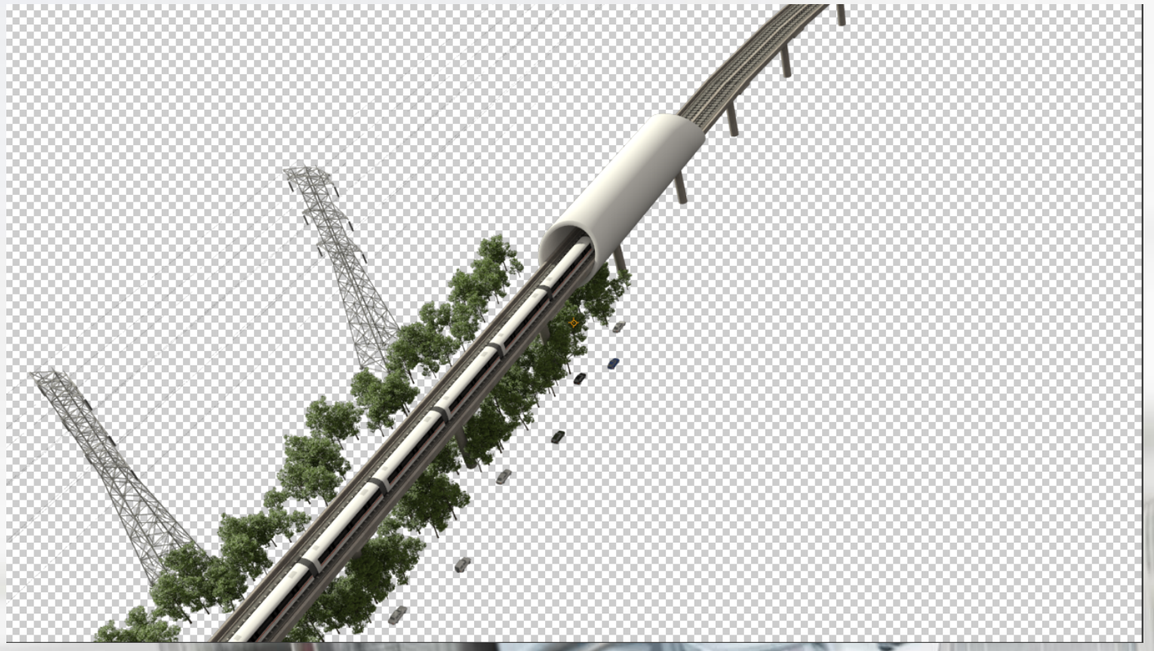
Autodesk Backburner / Monitor

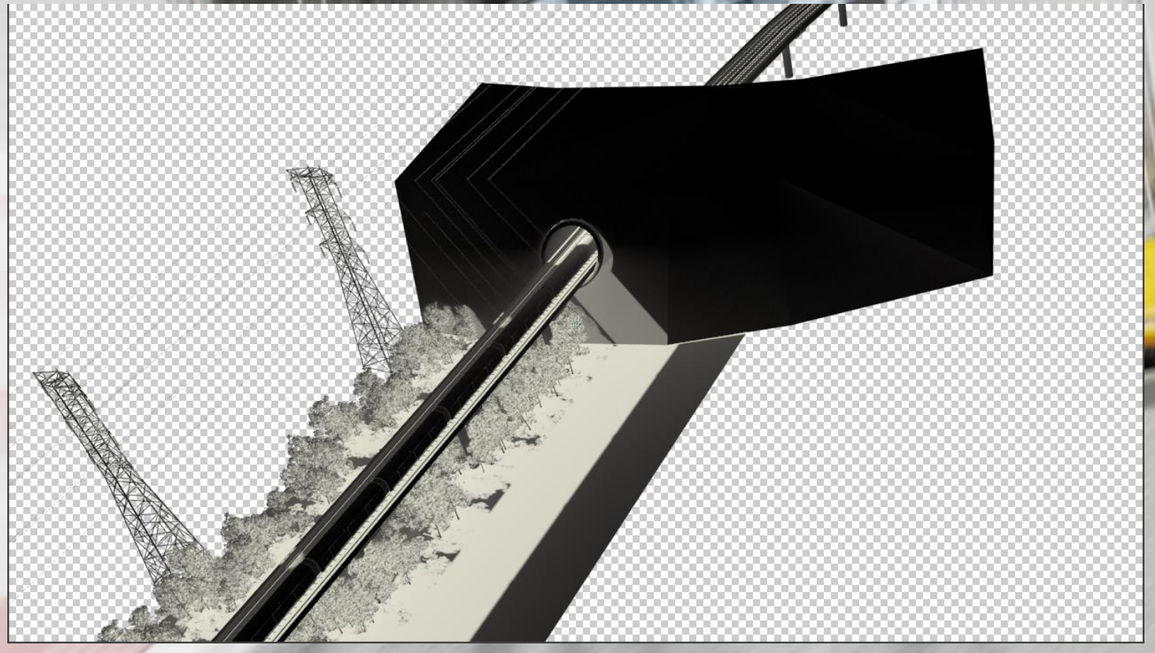
Compositing

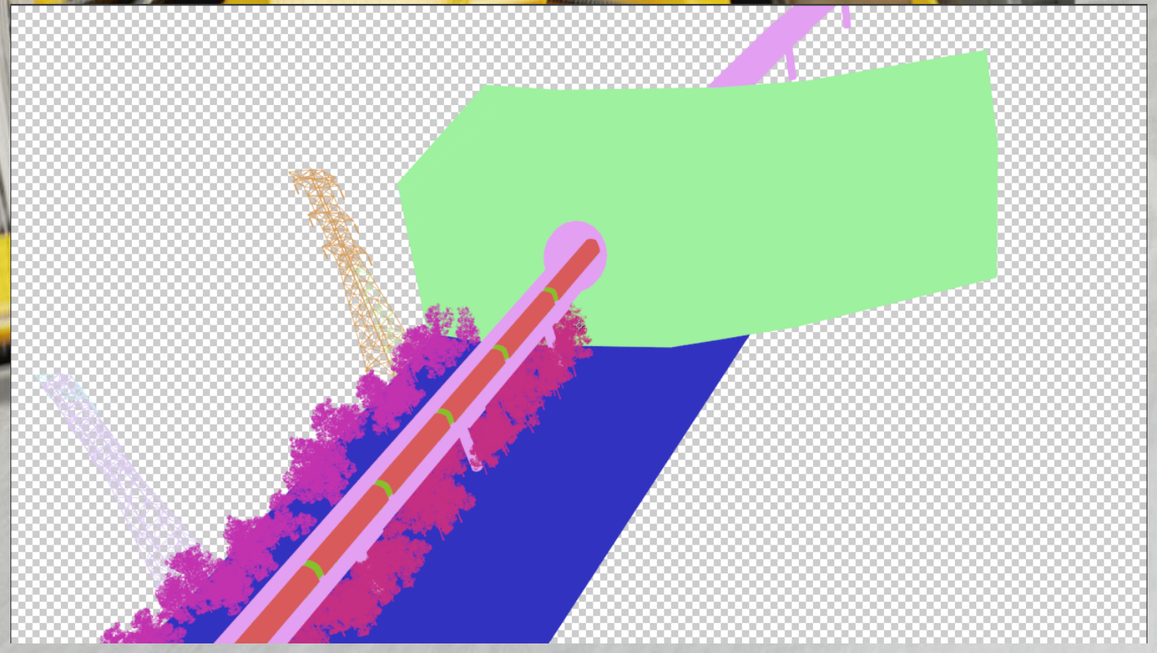
- **compositing:** The manipulated combination of at least two source images to produce an integrated result.[1]

[1] Okun, Jeffrey A., & Zwerman, Susan (2010).The VES Handbook of Visual Effects: Industry Standard VFX Practices and Procedures, Appendix C (p. 848). Burlington, MA: Focal Press.

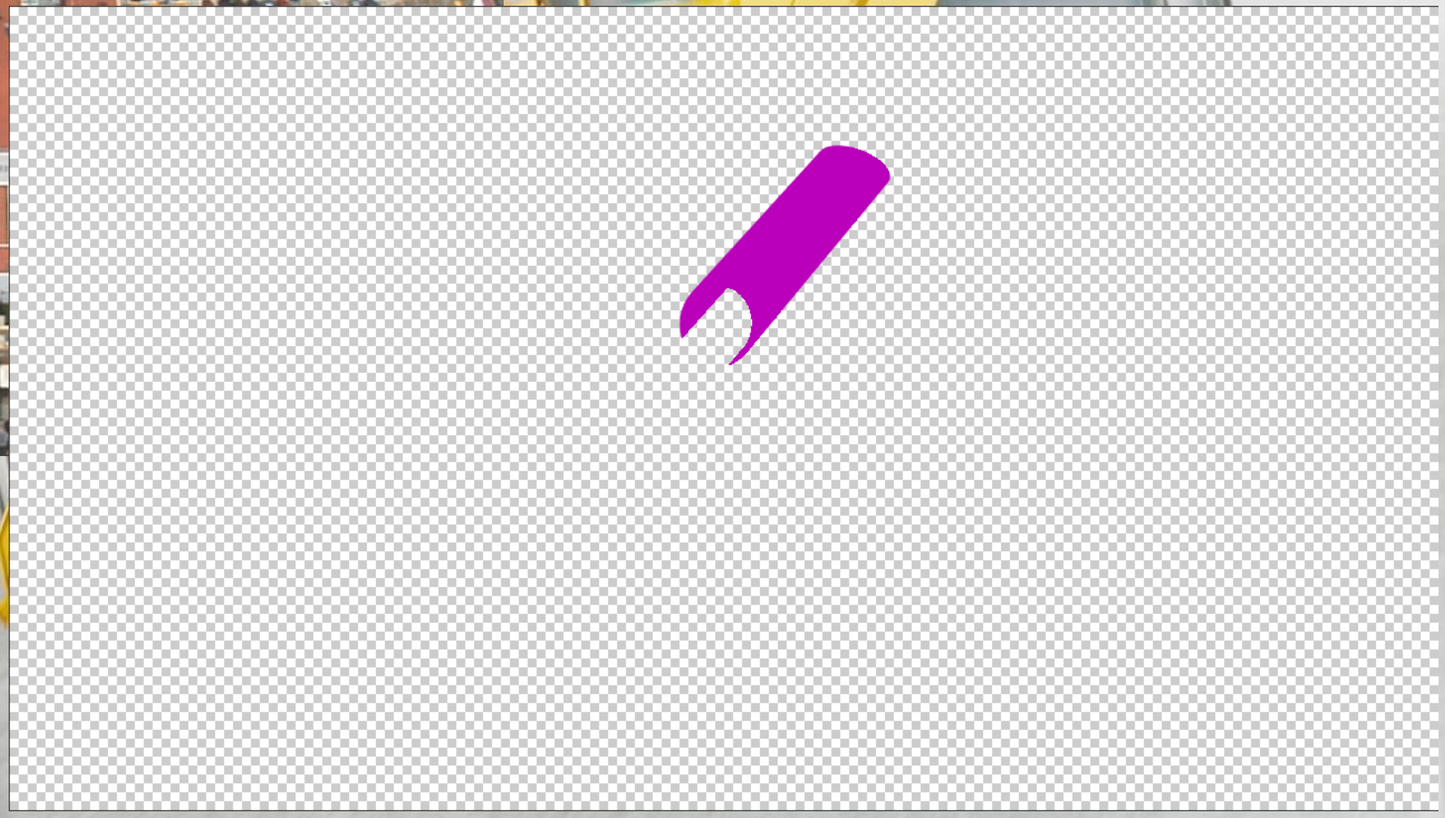
ICAbim







ICAbim



ICAbim

ICAbim / Breakdown

Session Feedback

- Via the Survey Stations, email or mobile device
- AU 2014 passes given out each day!
- Best to do it right after the session
- Instructors see results in real-time

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