

비정형 건축 프로젝트에서의 BIM Collaborate Pro 적용사례

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Senior Manager | 창조건축

Assistant Manager | 창조건축

Team Manager | YNP엔지니어링

발표자



엄정귀 소장

창조건축

현 소더비 자동차월드 테마파크 프로젝트 매니저

- AIA Registered
- 다수의 글로벌 비정형 건축 프로젝트 완수
- BIM 기반 프로젝트 다수 완수

조광연 대리

창조건축

현 소더비 자동차월드 테마파크 프로젝트 BIM 매니저

- BIM 기반 프로젝트 다수 완수

이재영 팀장

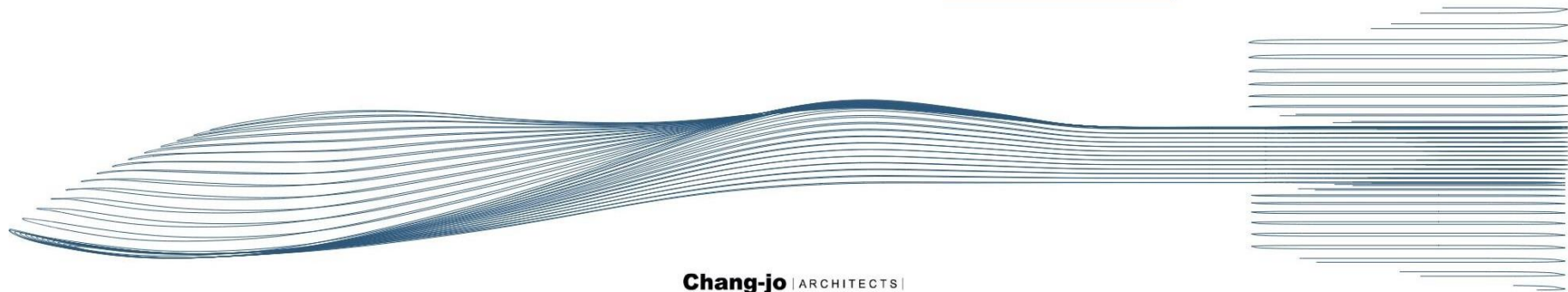
YNP 엔지니어링

현 소더비 자동차월드 테마파크 프로젝트 지원팀장

- Revit, Dynamo 교육 및 지원 경력 다수
- BIM 기반 프로젝트 다수 완수

AUTOWORLD THEMA PARK

Korea | Sotheby's
INTERNATIONAL REALTY

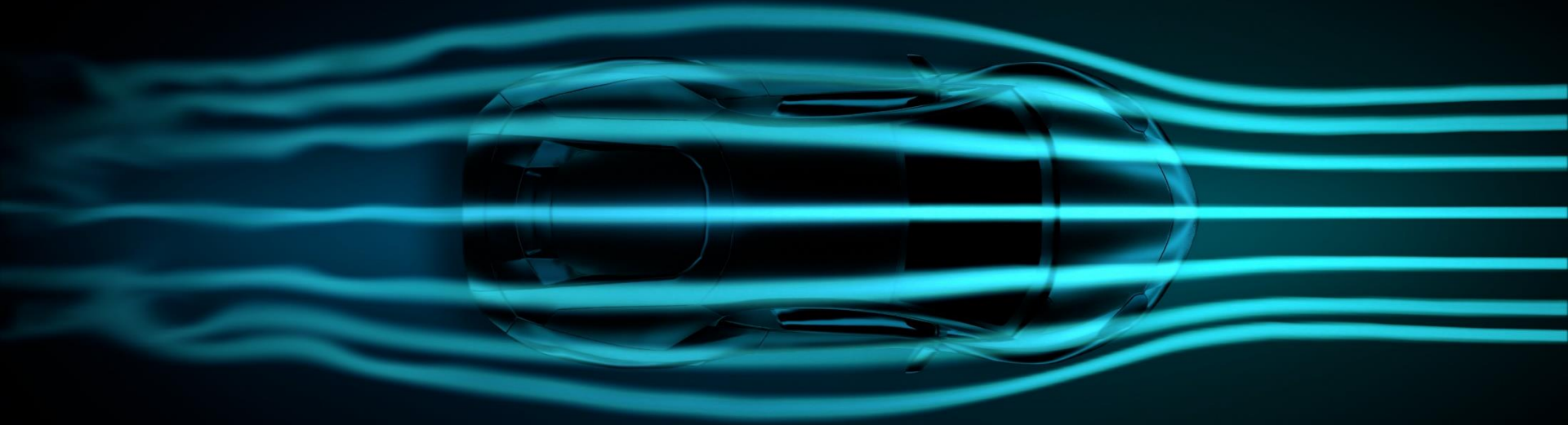


Chang-jo | ARCHITECTS |

LUI IX

SPEED

INSPIRATION



The main building had been carefully designed by understanding fluid dynamic form in motion and raw aerodynamic expression. The proposed design of the building will generate unprecedented and spectacle Spatiotemporal experience by the magnified effects of supercar's fundamental aesthetics.

LUI IX

SPIRAL

INSPIRATION

Connected by the bridge, the design of the north building is inspired by the bold and pure geometrical gesture of the speed. Together with the aerodynamic building at the south, it stabilizes the overall balance of the form.





SOUTH-EAST AERIAL VIEW



The aerodynamic flows of the buildings and landscape are seamlessly interweaving each other.

FROM NORTH ACCESS



EAST ELEVATION

The project silhouette and its flows of the architectural details emphasizes the futuristic concept and aerodynamic aesthetic of the project, in the meantime of blending the form with the surrounding landscape.



FRONT ENTRANCE

The proposal is essentially two elements; the lower podium side as a pure geometrical pedestal and upper buildings for dynamic forms.

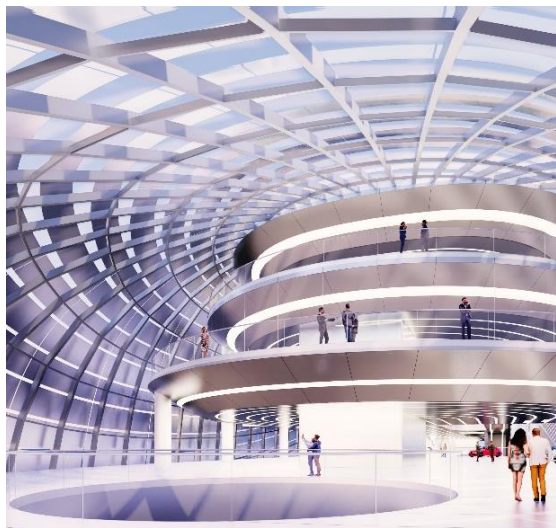


ROUNDABOUT & BRIDGE

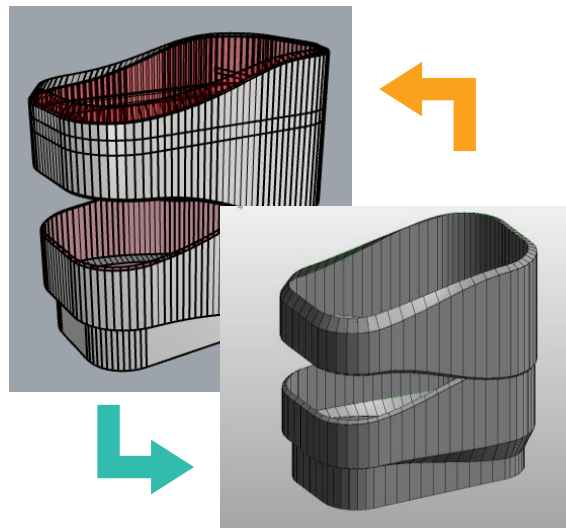
The roundabout at the ground level, incorporated with a drum-shaped high-performance LED screen provides a vital and dramatic atmosphere.

Challenges

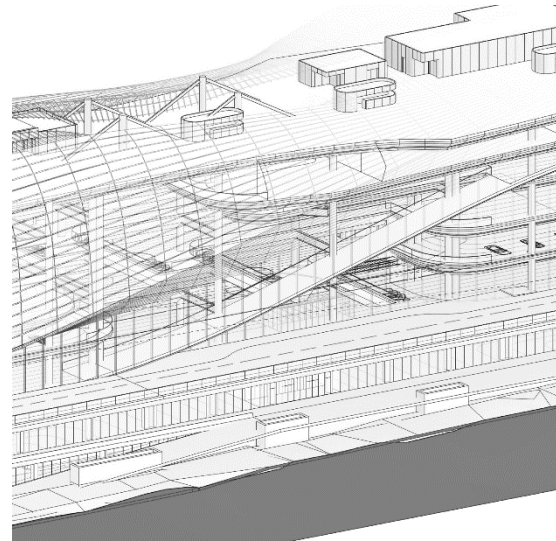
건축물과 유기적으로 연계된
3차원 구조 및 타공종 설계



지속적인 3차원 디자인 개발

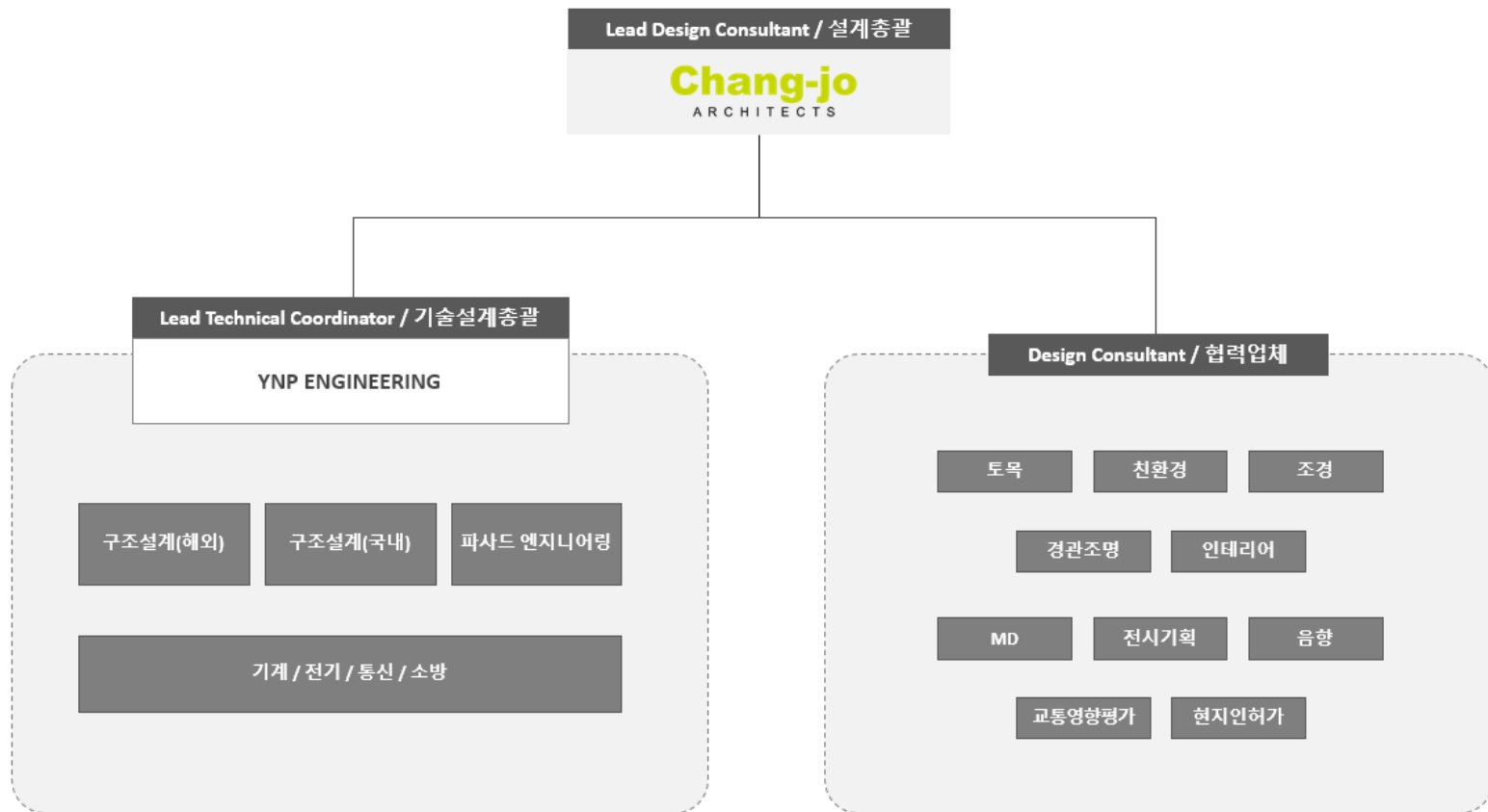


다공공간 실시간
프리젠테이션 및 커뮤니케이션

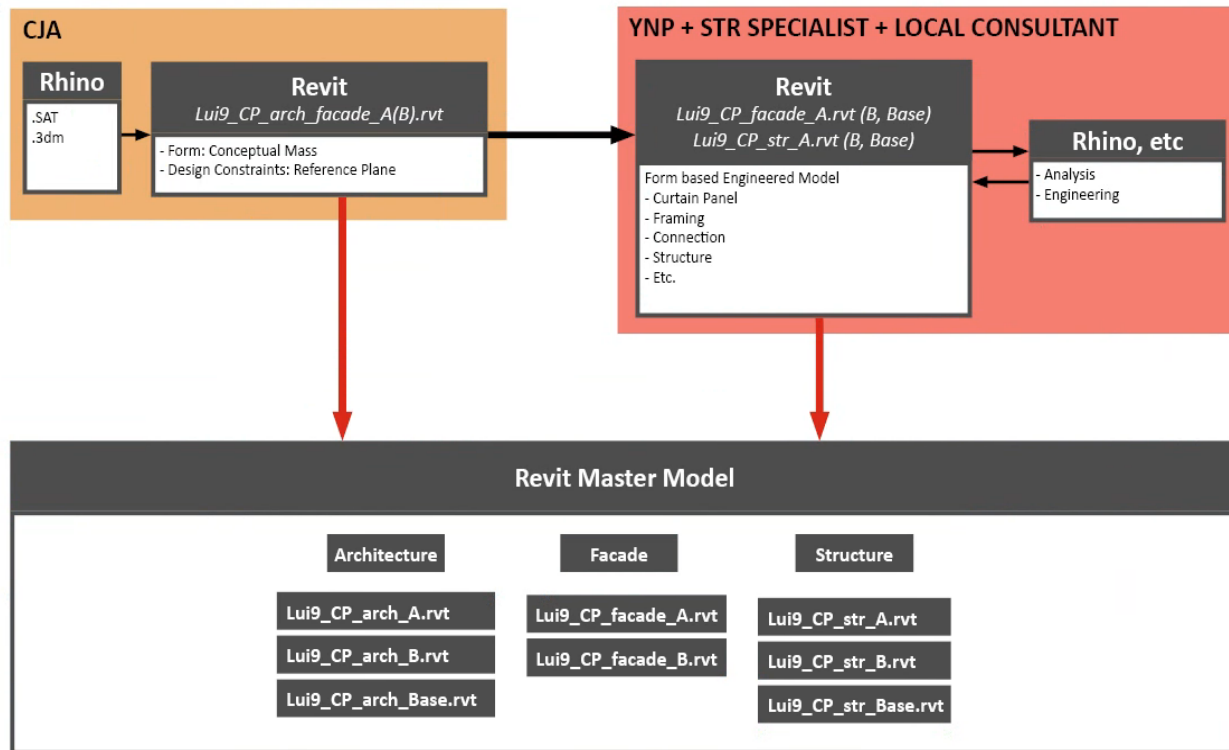


프로젝트 협업 구성

프로젝트 조직도



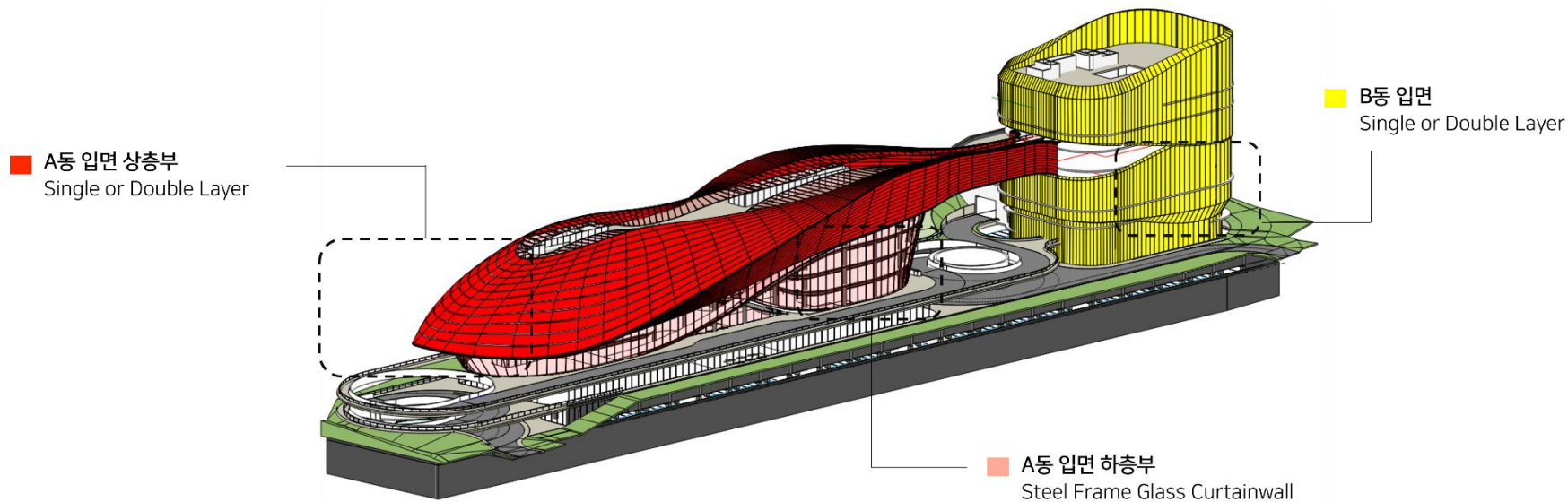
프로젝트 모델 구성





FACADE BIM WORKFLOW

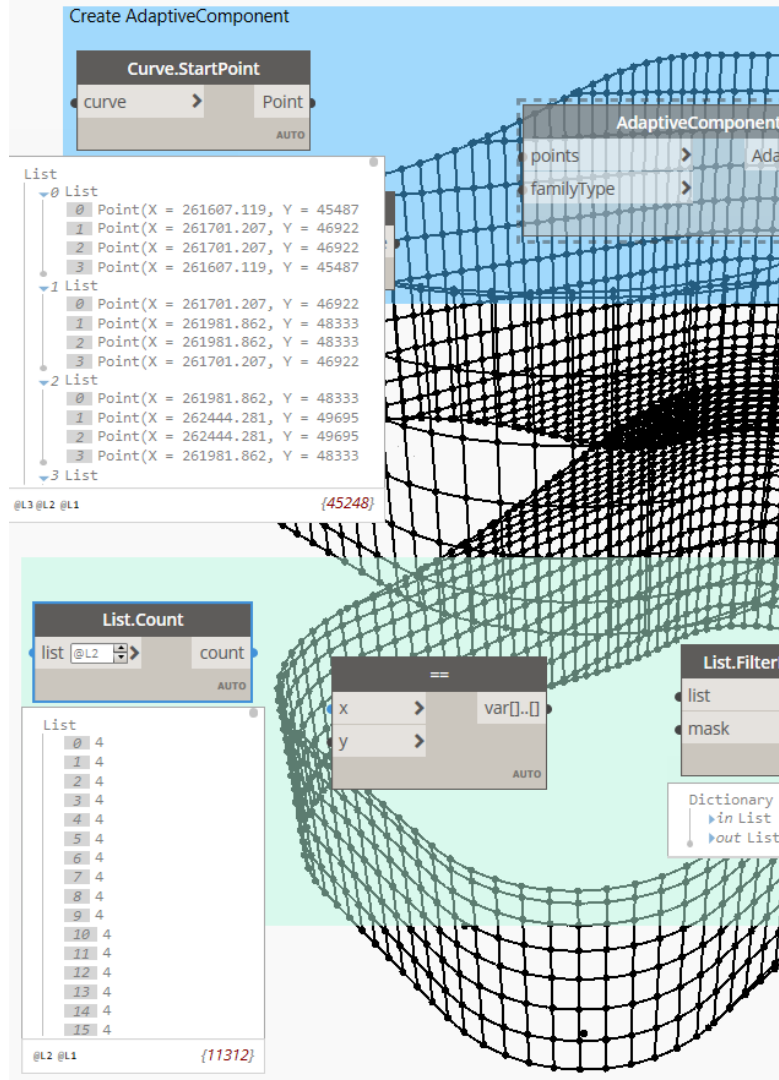
비정형 메탈 패널



Conceptual Mass Process

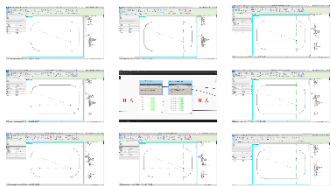


1. Mass Curved 정리
2. Mass Curved 8EA 정리
3. 매개변수 [이름] 활용하여 Reference Points 구분
4. 참조평면 기준 Split Curved 생성
5. Z축으로 Extrude
6. 참조평면 기준 Split Curved 생성
7. Split된 Curved 확인
8. Split된 Curved를 Loft된 Surface 확인
9. 세로 Reference Curved 기준으로 Split
10. 8개 Curved 기준으로 각각 Split
11. Points 확인
12. 가로 Reference Curved 기준으로 Split



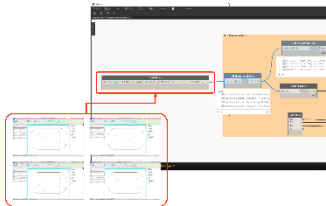
Conceptual Mass Process

001



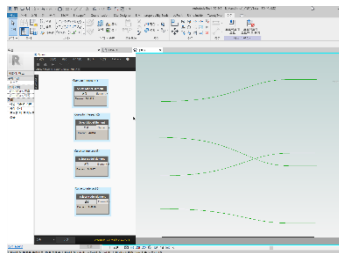
Mass Curved 정리
Rhino Curved를 REVIT 가져오기

002



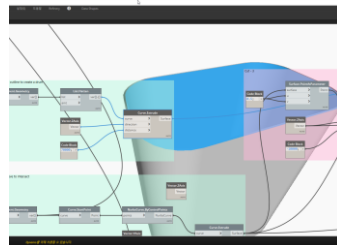
Reference Point 활용
매개변수 [이름]으로 기준 작업

003



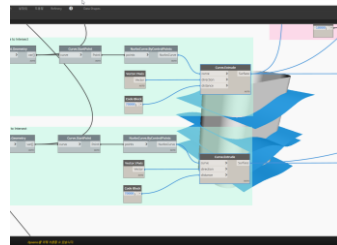
참조평면 기준 Split Curved 생성

004



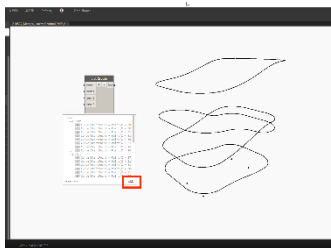
Mass Curved를 Z축 기준 돌출

005



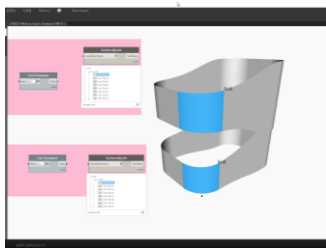
참조평면 기준 Split Curved 돌출

006



Split Curved Check
Mass Curved와 Split Curved 비교

007



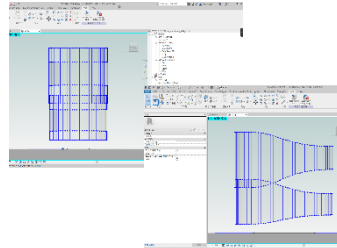
Loft된 Surface Check

008



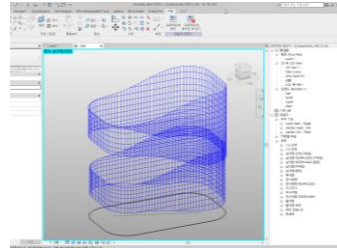
Dynamo Node 간소화 작업
각각의 Surface로 구분

009



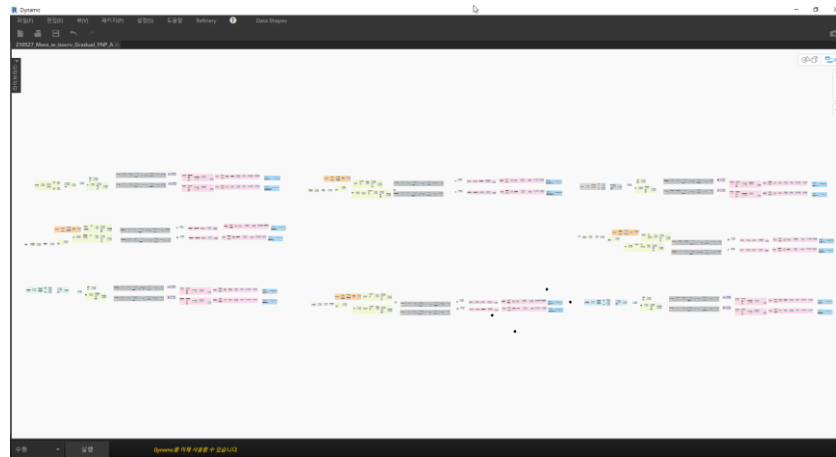
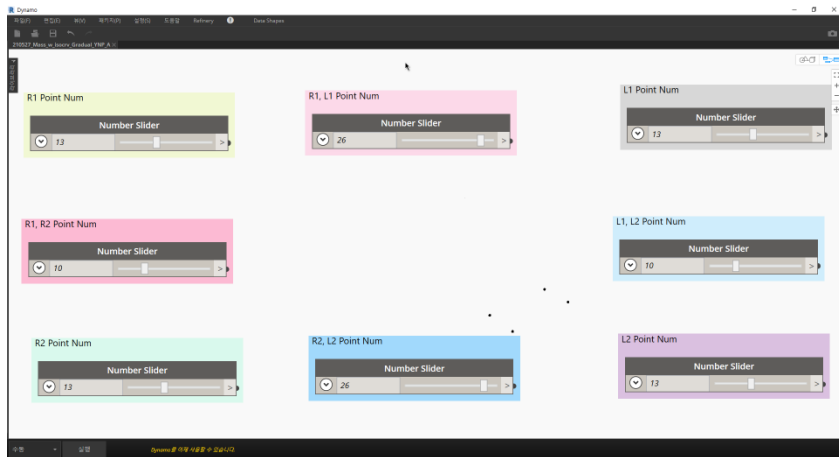
X,Y Points Check

010



가로 Reference Curved 기준 Split
Inner Skin & Outer Skin 적용

Conceptual Mass Process



협업 데모

실시간 **ABC** 코디네이션 (녹화영상)

사용자 피드백

The background features several dark, metallic-looking geometric shapes, possibly representing computer monitors or architectural elements, arranged in a way that frames the central text. These shapes have sharp edges and some internal reflections, giving them a three-dimensional appearance.

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