

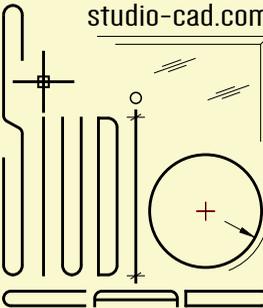
studio-cad.com

STUDIO CAD INTERNATIONAL LTD.

DESIGN PORTFOLIO

Contact information:

Studio CAD International LTD.



www.studio-cad.com
office@studio-cad.com

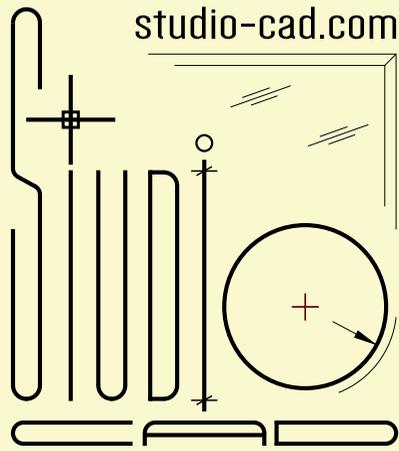
+359 2 443 5491
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5 D. Nemirov str.
1324 Sofia, Bulgaria

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MISSION + PHILOSOPHY

Studio CAD LTD. is a design bureau, specialized in the development of Shop Drawings and Production Drawings for fabricators and commercial contractors in Europe and North America. We offer professional service in the design and construction of building façades, integrate well known systems in the buildings and/or assist in the development of new and innovative systems in the fields of curtain walls and stone cladding.

Over 10 years of making shop drawings in the real world environment (Bulgaria and abroad), allowed us to obtain extensive knowledge of materials from different industries, technologies for their treatment and installation, as well as their mutual interaction. This gives us the opportunity to develop projects of different complexity and size, while our knowledge in construction, different materials and technologies help us design details of any kind and create an end prod-



Studio CAD at home in the office (2018) | Ani, Elislava, Mila, Stoyan, Yassen and Ivan (from left to right)

uct characterized with high precision and uncompromised clarity.

We strive to satisfy all client needs, taking into consideration their mechanical equipment and human resources, as well as not deviating from their working methods. Our goal is to offer our best design services in the field of façade engineering. We believe that our experience and capabilities allows us to submit innovative and practical solutions that meet the requirements of modern architecture. We offer details, constructions, specifications, quality check of details submitted by other companies, security and stability check of aluminum curtain wall systems, etc. We take into consideration all project requirements every step of the way and strive for the best final result possible.

Shop drawings are essential for the development of every project. By being the only common language for dialogue between all parties involved in the process, high quality shop drawings allow for all processes, from preliminary design to product installation, to run smoothly and without any problems. Architects and designers receive clear and exact drawings with thoroughly thought through details. General contractors receive all information regarding materials and technologies being used. Subcontractors – all information needed for installation.

As we develop a project from beginning to end, we provide support at all stages of the production process. It starts with preliminary documentation needed by the manufacturer to make a proposal for a specific job. Continues with specific solutions and development of all needed drawings, solving all the necessary details for a given project. Production and assembly drawings needed for manufacturing are produced in the final stage.

Currently Studio CAD has 8 employees highly trained in the analysis and overcoming of complex façade engineering tasks at its tips. With background in the engineering and architectural fields and with their unique team spirit, our designers are capable of making everything possible.

... Actually, there are 8 employees, if we count our Yorkshire terrier Chief of Security - Arya. :)



Studio CAD at home in the office (2018) | Ani, Elislava, Mila, Stoyan, Yassen and Ivan (from left to right)

We aim to give maximum information in our drawings. Our drawings are extremely detailed and clear, and at the same time easy to read and comprehend. All documentation is set in order with clear logical links between different drawings when finalized.

In the drafting process, we have integrated special quality control and inspection methods at all stages. This helps us find and eliminate potential mistakes very early on. We also use CAD-PLAN GmbH's façade engineering software ATHENA. This leads to automation of the development and eliminates the human mistake factor. All of this gives our clients additional insurance against loss in their manufacturing and installation process.

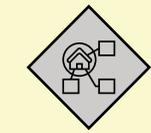
Studio CAD provides the highest end services possible. Our highly experienced team, the dedication of each individual to develop and the excellent work environment constitute towards mutual cooperation and upgrade.

Studio CAD's head office is based in Sofia, Bulgaria, but the bureau is free to cooperate with projects all over the world.



Studio CAD at home in the office (2018) | Mila, Yassen and Arya, Ani and Ivan (from left to right)

WORK PROCESS



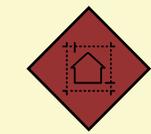
ANALYSE

Every project begins with the preparation of an extensive analysis of all technical information given by the contractor, as well as reviewing the client's wishes, thus setting the proper course of action for each individual case.



SOLVE

Further, our designers start looking for the possibilities that the project and the current market offer, giving the client a set of suitable design decisions that are the best for their needs and help them make the right choice.



VISUALIZE

In the end, our team deals with the proper visualization of all design decisions. Our high quality drawings give our clients and their colleagues a smooth and comprehensive experience throughout the whole construction process.

CAD-PLAN GmbH

In 2009 Studio CAD becomes the official representative of CAD-PLAN GmbH and authorised reseller of their specialized façade engineering software - ATHENA, for Bulgaria. Together with this Studio CAD offers training courses in the latest versions of ATHENA and AutoCAD, student licenses of the software, as well as flixo and SJ Mepla calculation softwares. Studio CAD has visited the BAU 2013, BAU 2015 and BAU 2017 exhibitions in Munich, Germany as guest presentors of ATHENA for prospective bulgarian clients of CAD-PLAN at the exhibition.



Studio CAD at the construction site of VISION CLINIC in Sofia, Bulgaria (2014) | Nadya, Yassen, Tsvetomir and Julia (from left to right)

TEAM



Yassen Pashov

CEO | Chief of Design

26 years experience in the field of Façade Engineering & Building Construction

yass@studio-cad.com

+359 88 872 6443

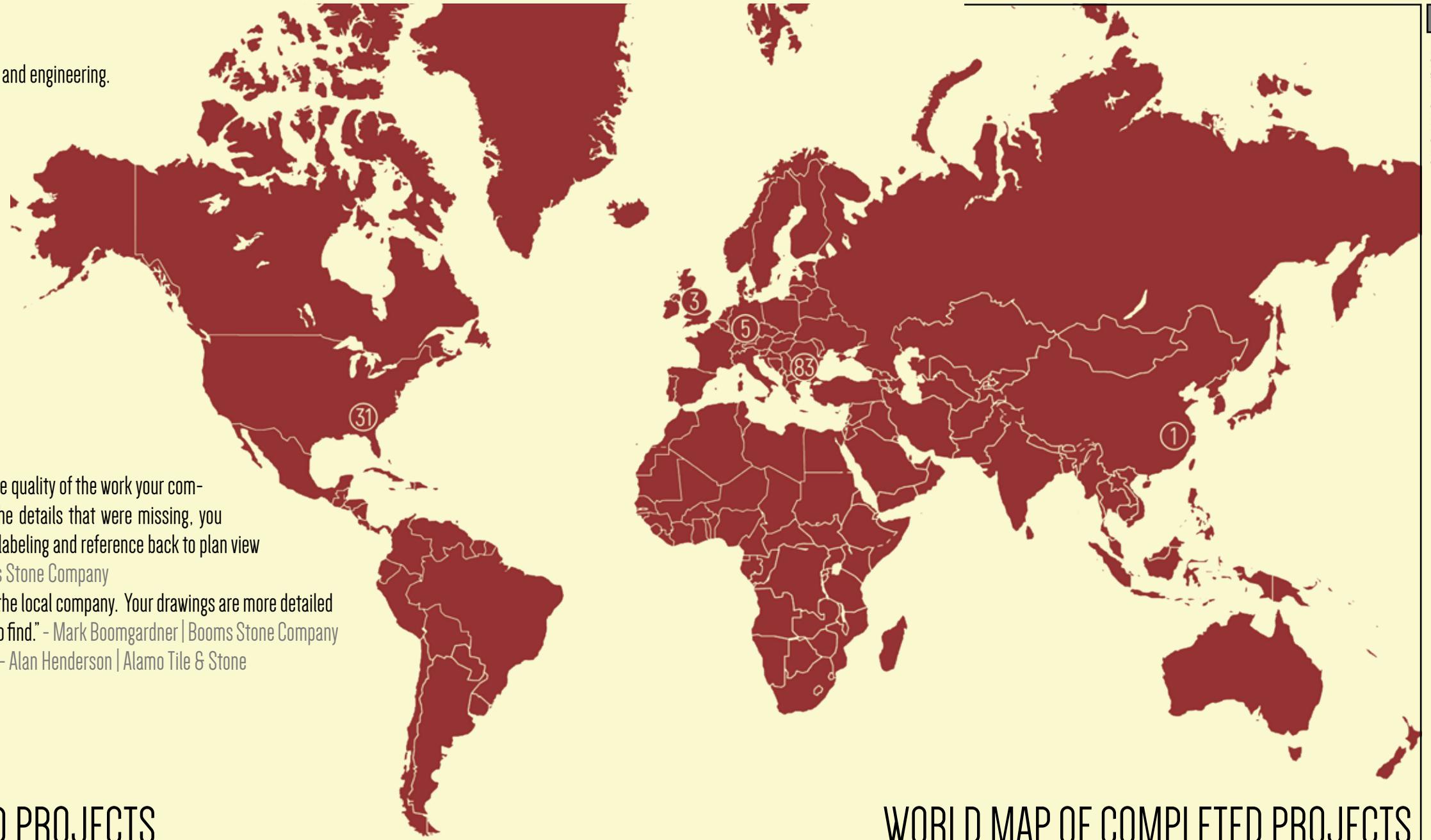
SERVICES

Studio CAD offers a wide range of services in regards to façade design and engineering. Some of these include:

- ◇ Surveying
- ◇ Tender
- ◇ Shop drawings
- ◇ Production drawings
- ◇ 3D modeling
- ◇ Structural calculations
- ◇ Submittal
- ◇ Execution
- ◇ Consulting
- ◇ Project observation
- ◇ BIM
- ◇ Thermal modeling
- ◇ Diagnostic analysis
- ◇ ...and many more

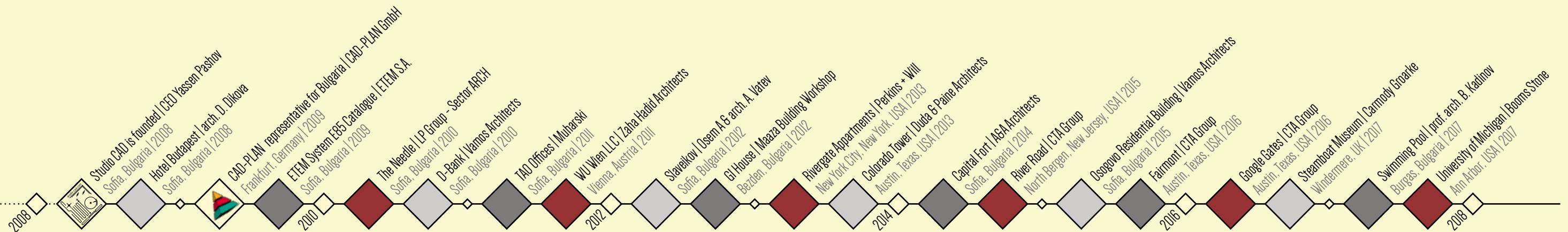
CLIENT REFFERENCES

- ◇ "We reviewed your shop drawings and we were impressed with the quality of the work your company produced. Attention to detail was great, you flushed out the details that were missing, you collected SF data and reported it, nomenclature was clear, page labeling and reference back to plan view was all clear. Thank You for the great work." - Rich Booms | Booms Stone Company
- ◇ "We would like to start using your company exclusively instead of the local company. Your drawings are more detailed and accurate and almost every detail is covered which is difficult to find." - Mark Boomgardner | Booms Stone Company
- ◇ "Thank you for the sample shop drawing. The best I've ever seen." - Alan Henderson | Alamo Tile & Stone
- ◇
- ◇



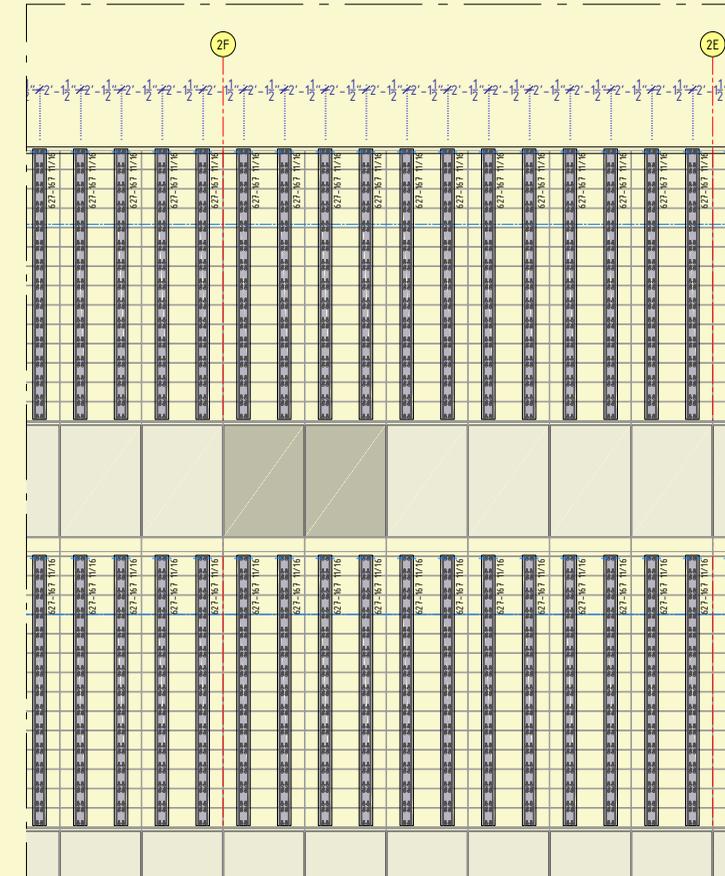
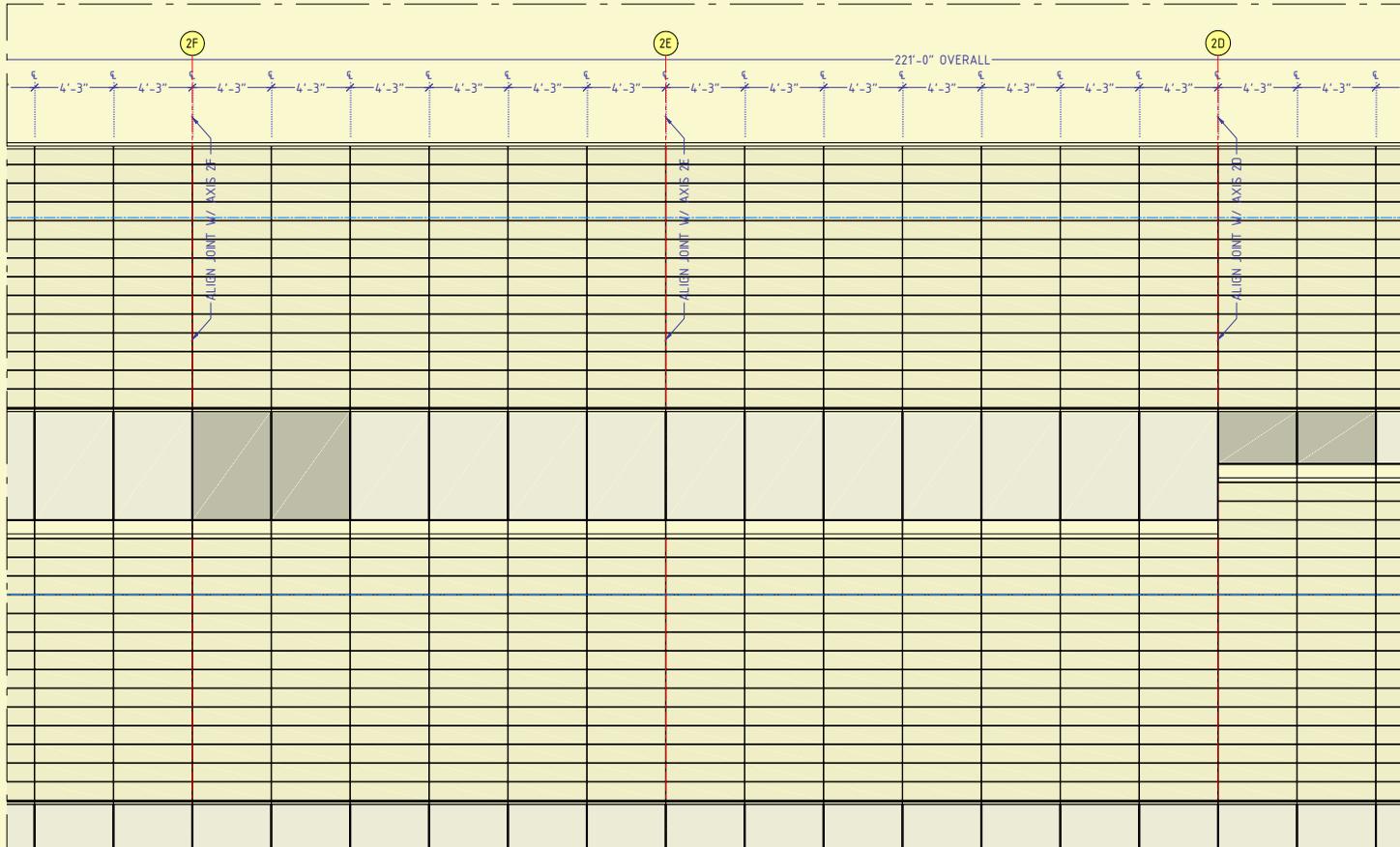
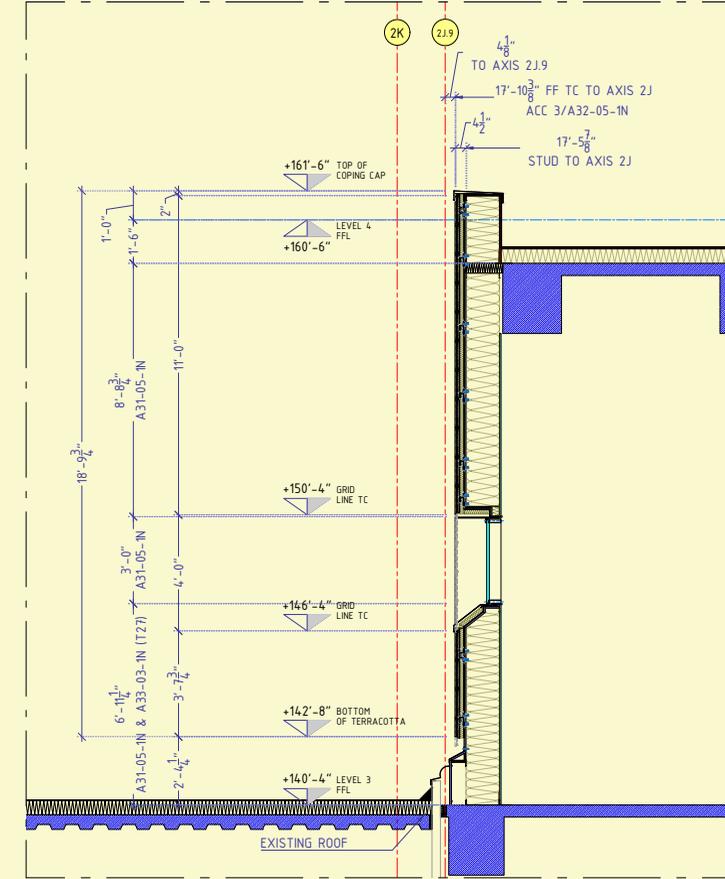
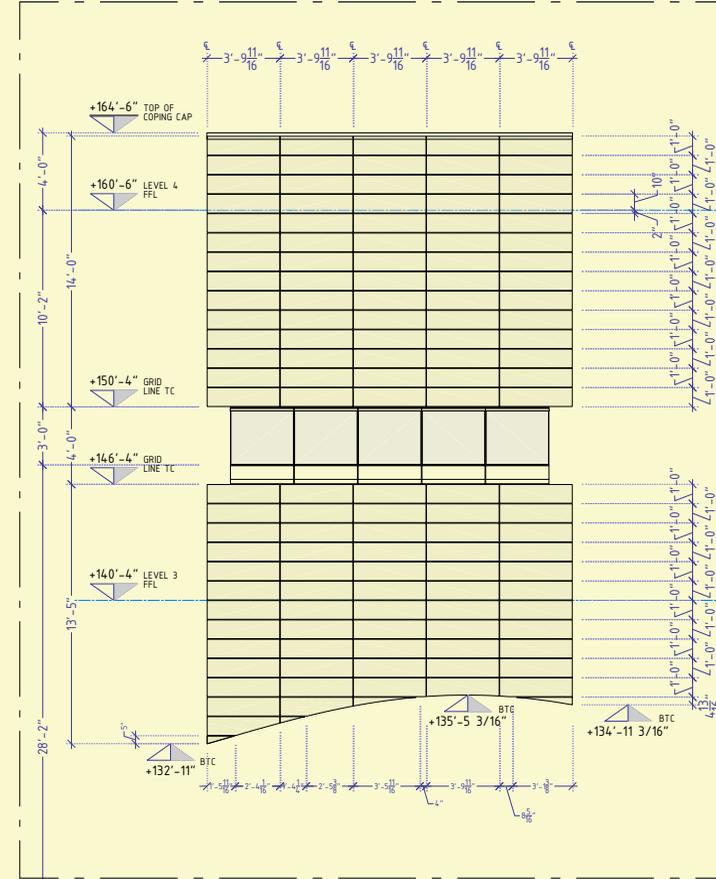
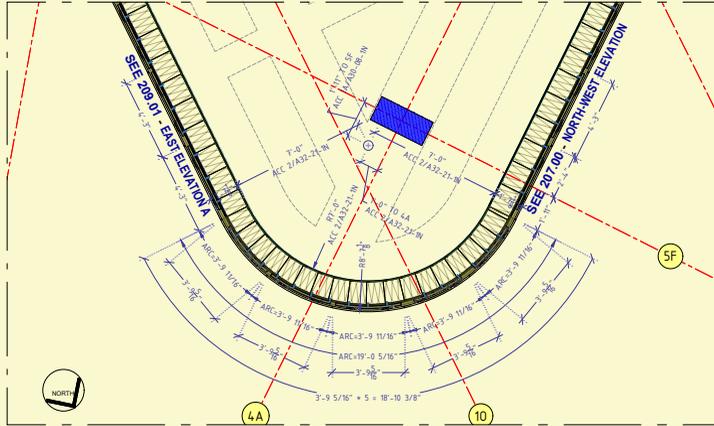
WORLD MAP OF COMPLETED PROJECTS

STUDIO CAD LIFESPAN + SELECTED PROJECTS



OU MEDICAL CENTER

PERKINS+WILL



Location: Oklahoma City, USA
 Date of completion: 2018
 Area: 18 400 sq. ft.
 Shop Drawings: 107 pcs @ ARCH D
 Contractor: CB Products & Q-VENT

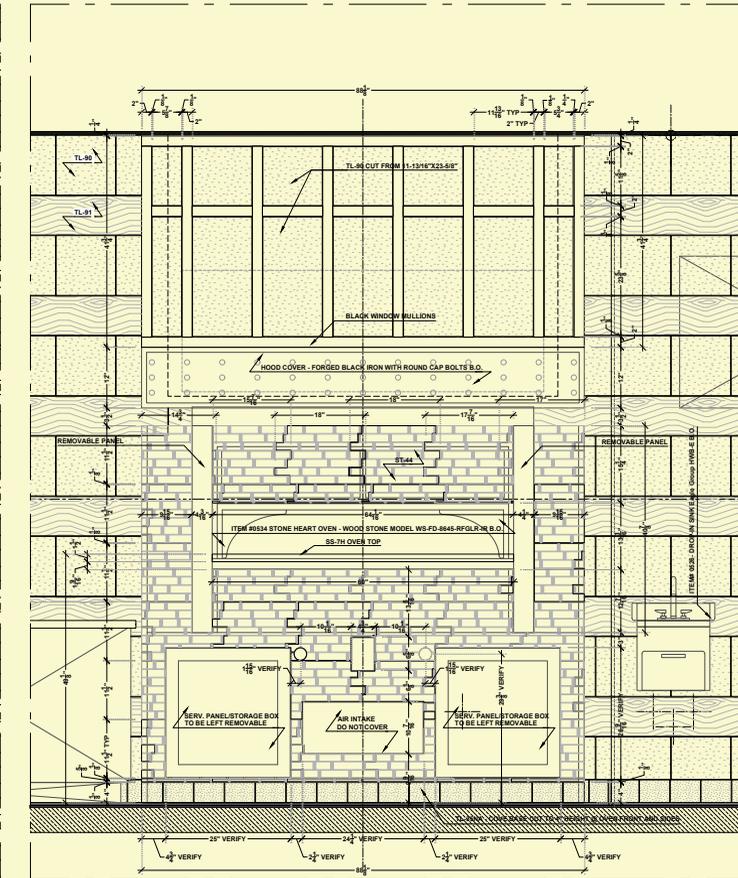
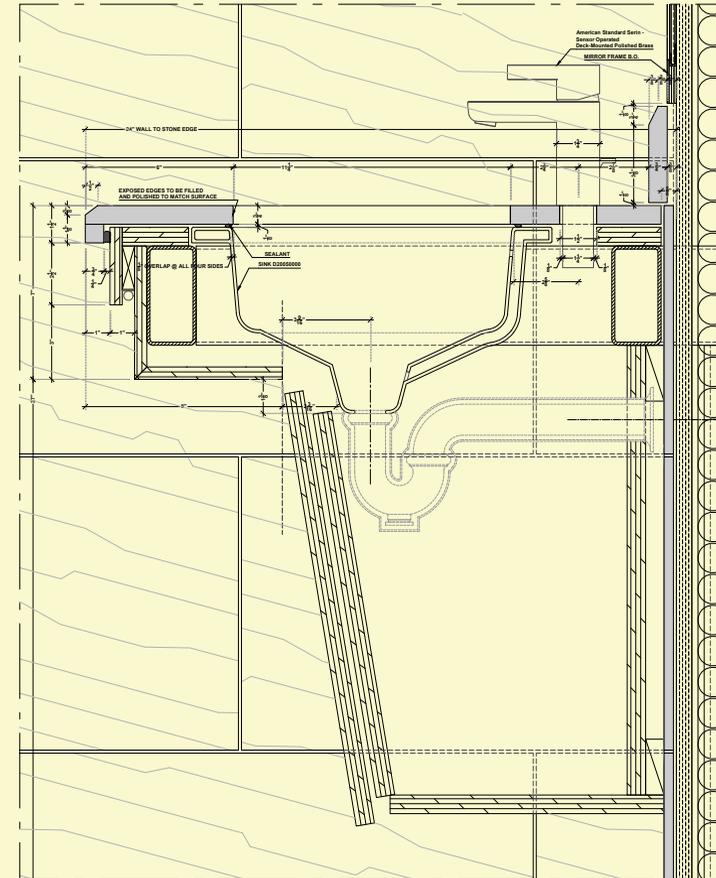
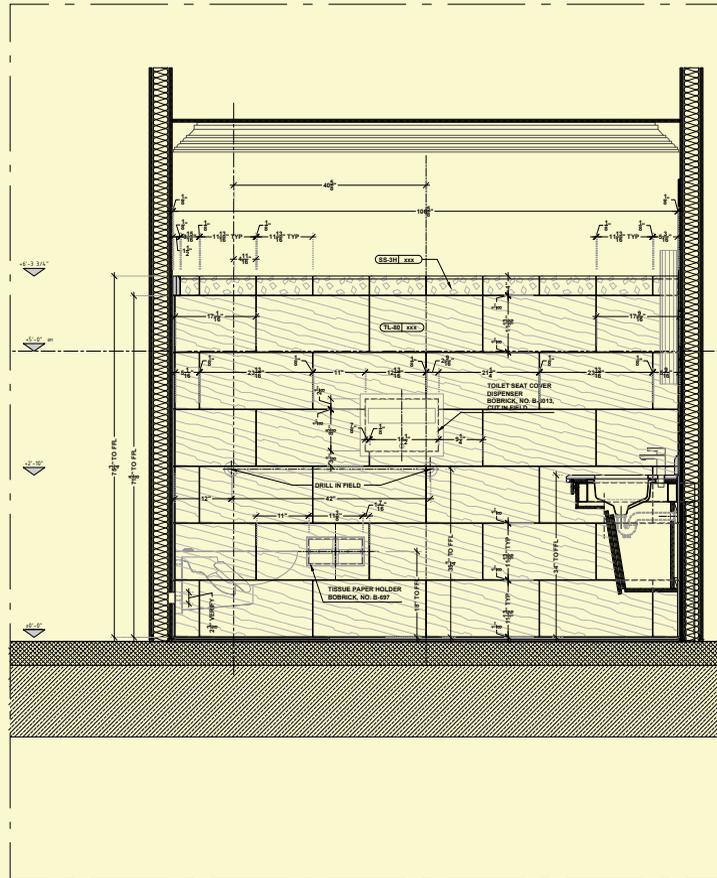
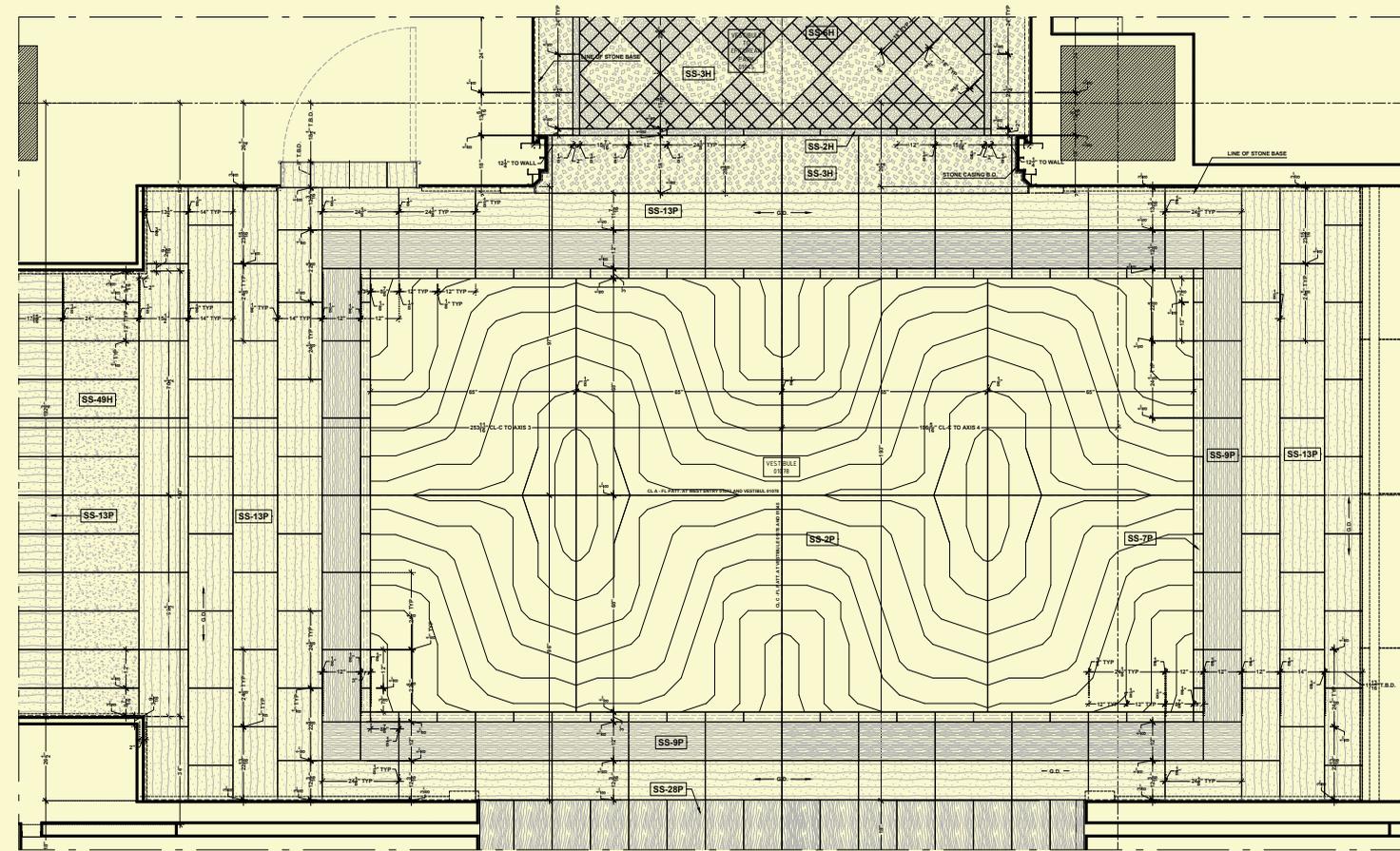
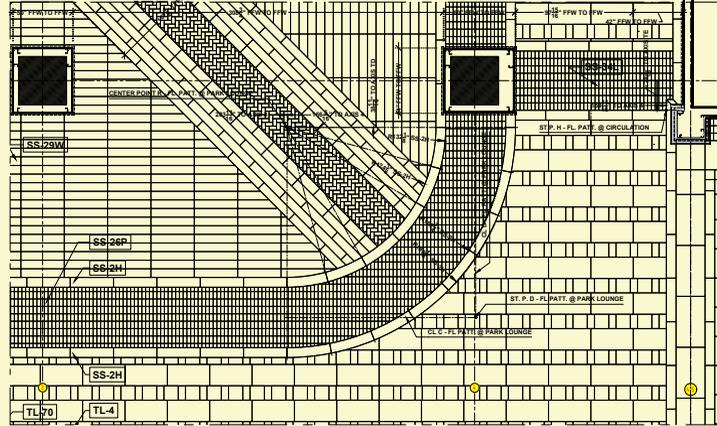
Scope of Services:
 Shop drawings for terracotta wall cladding.

FAIRMONT

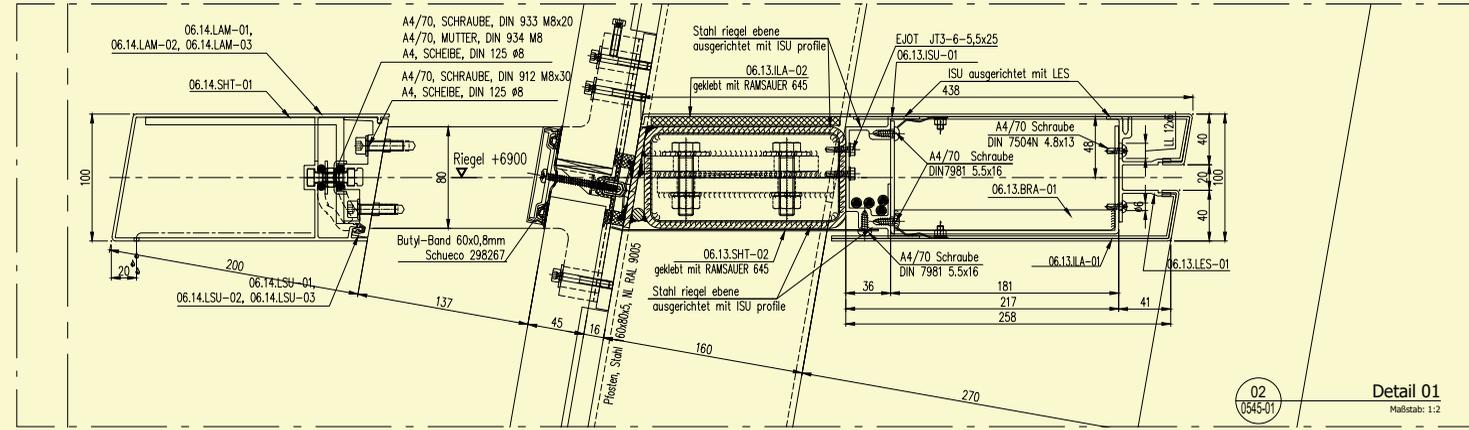
GENSLER & WARREN SHEETS DESIGN



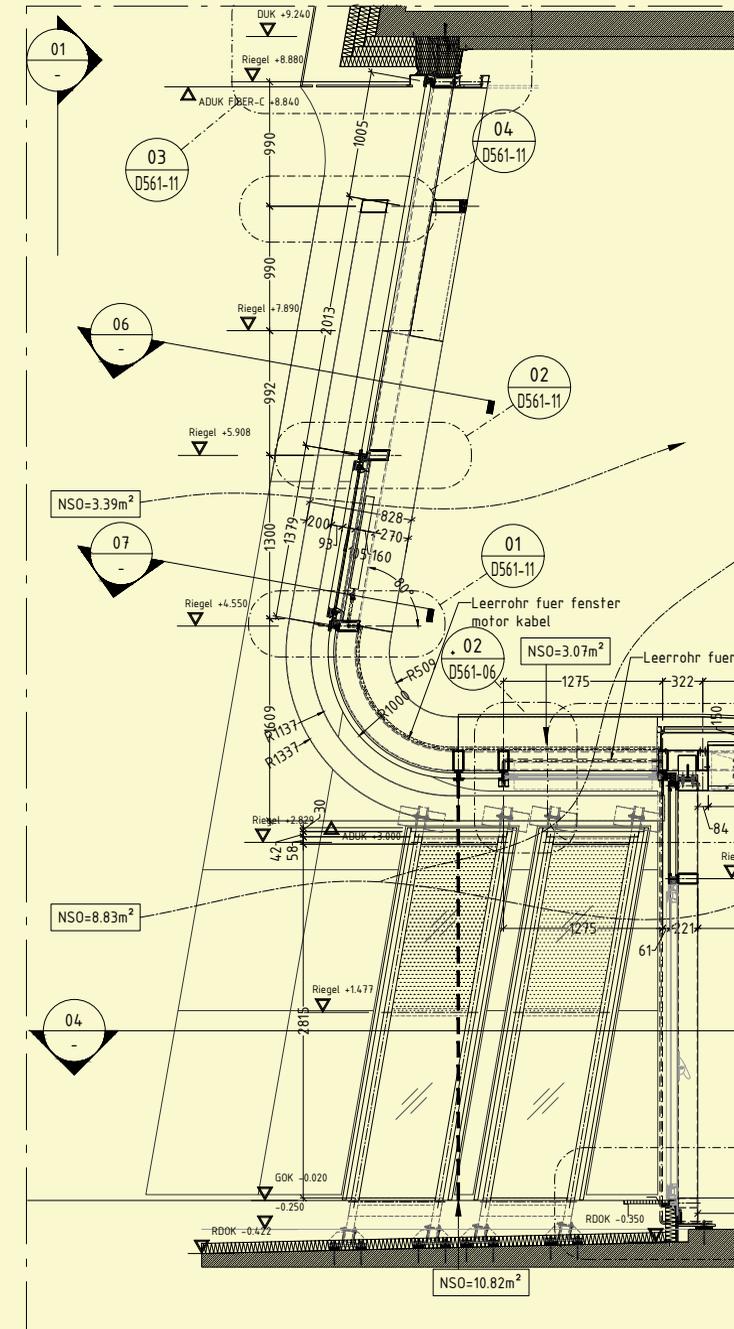
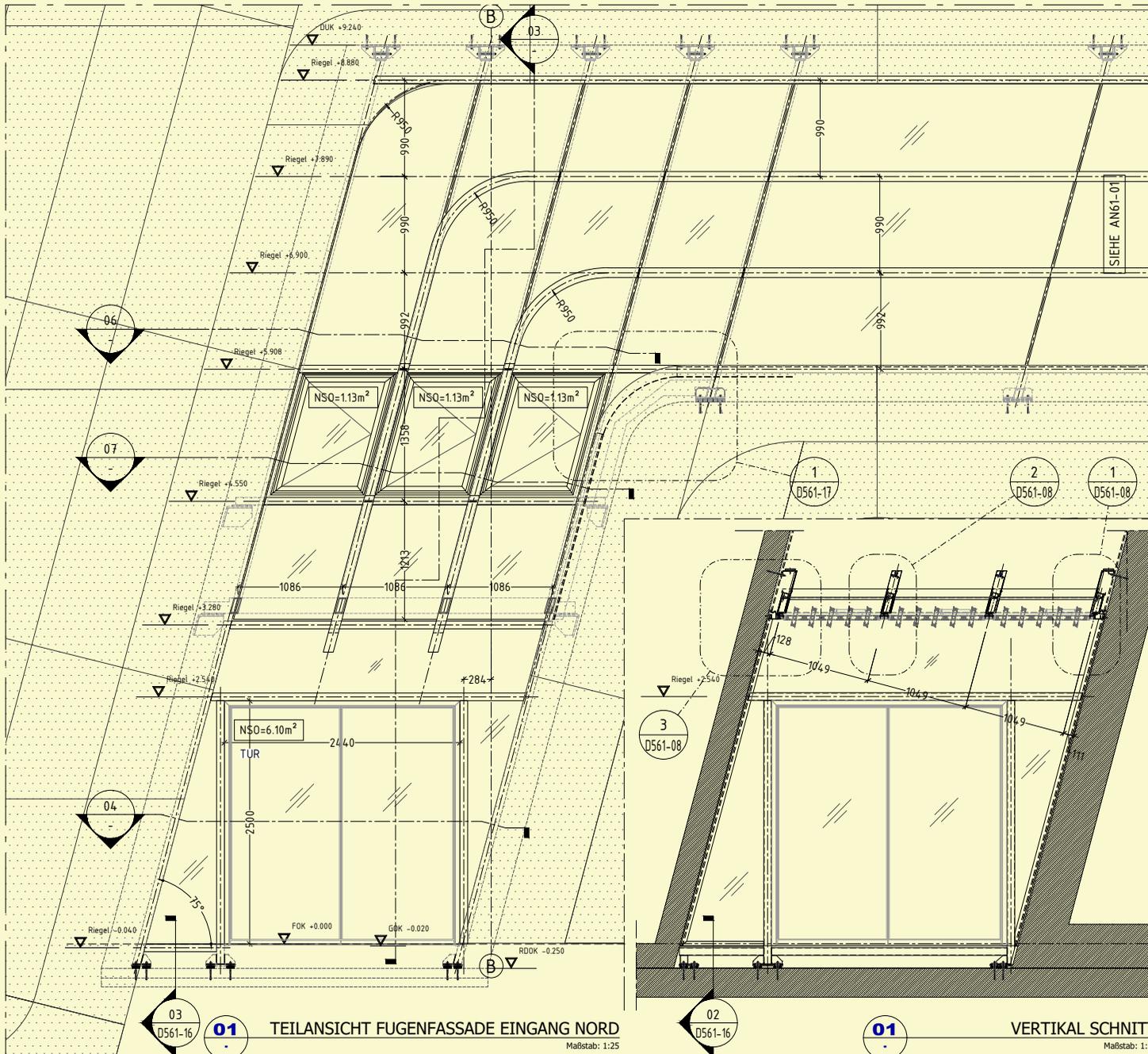
Location: Austin, Texas
 Date of completion: 2017
 Area: 54 473 sq. ft.
 Shop Drawings: 351 pcs @ ARCH D
 Contractor: Alamo Tile & Stone

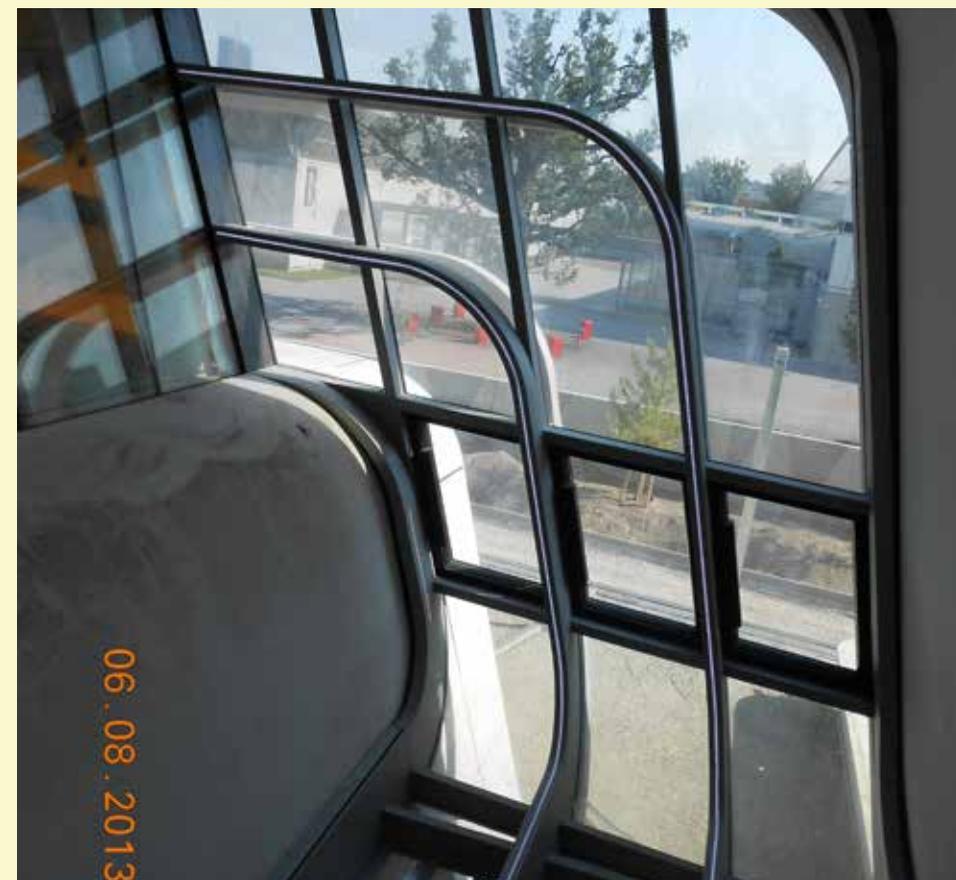
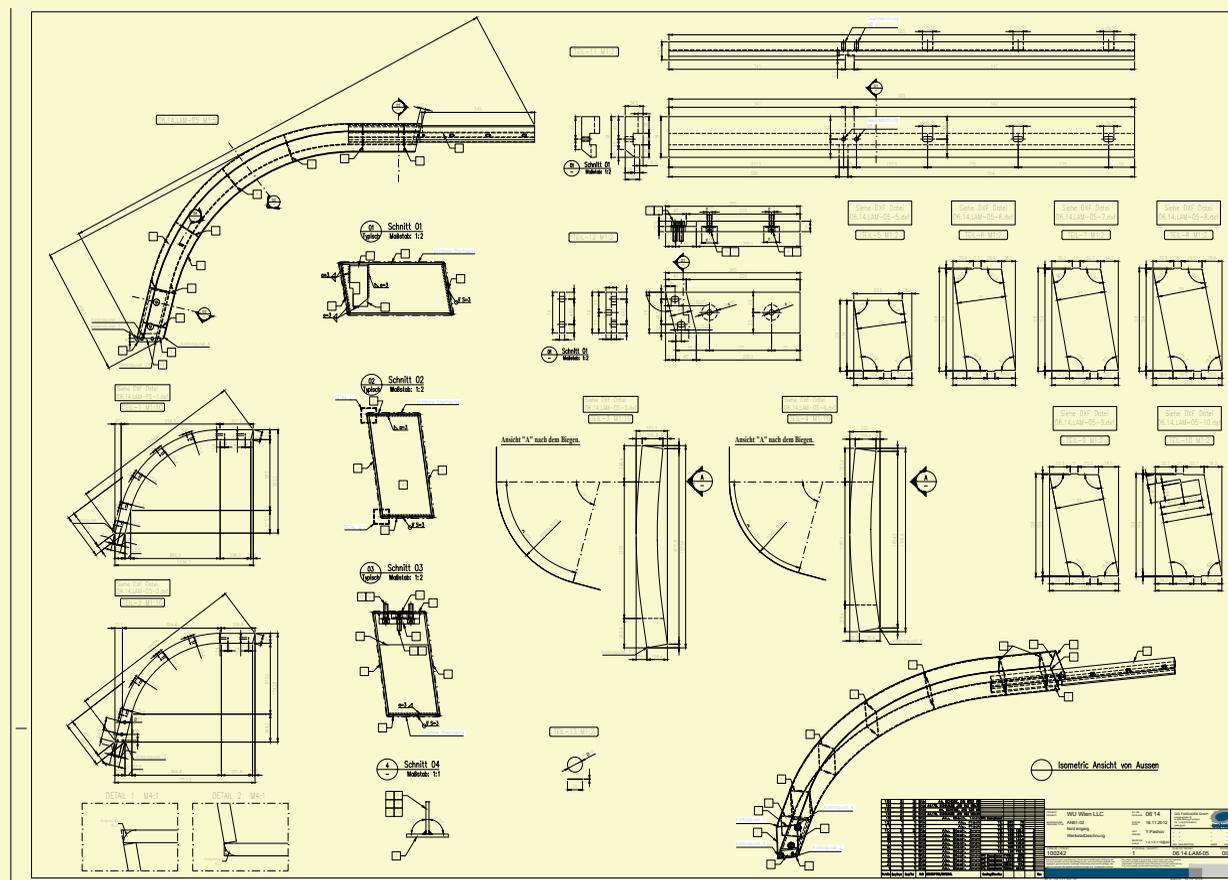
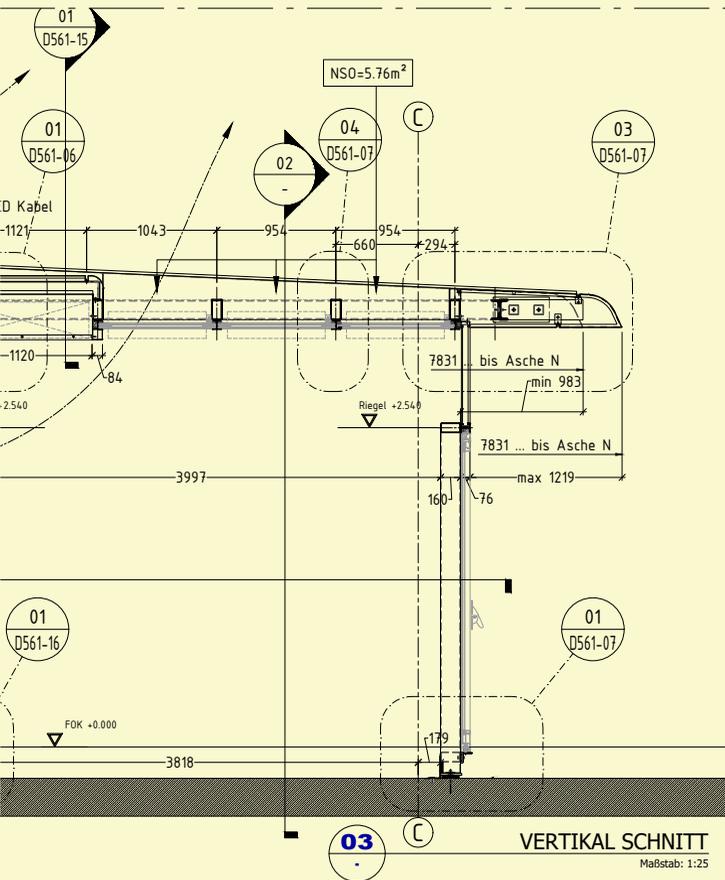
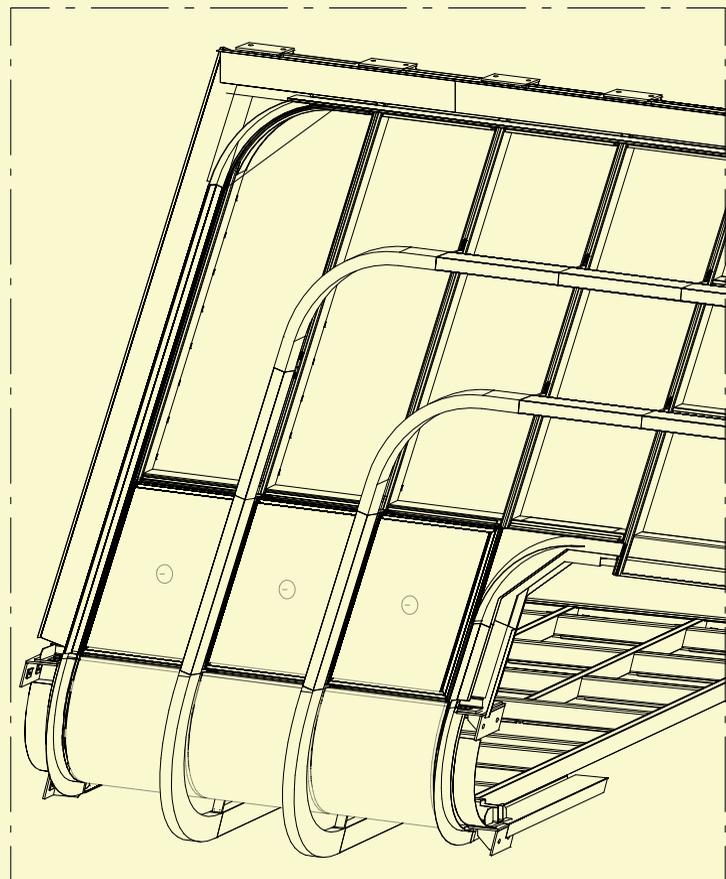
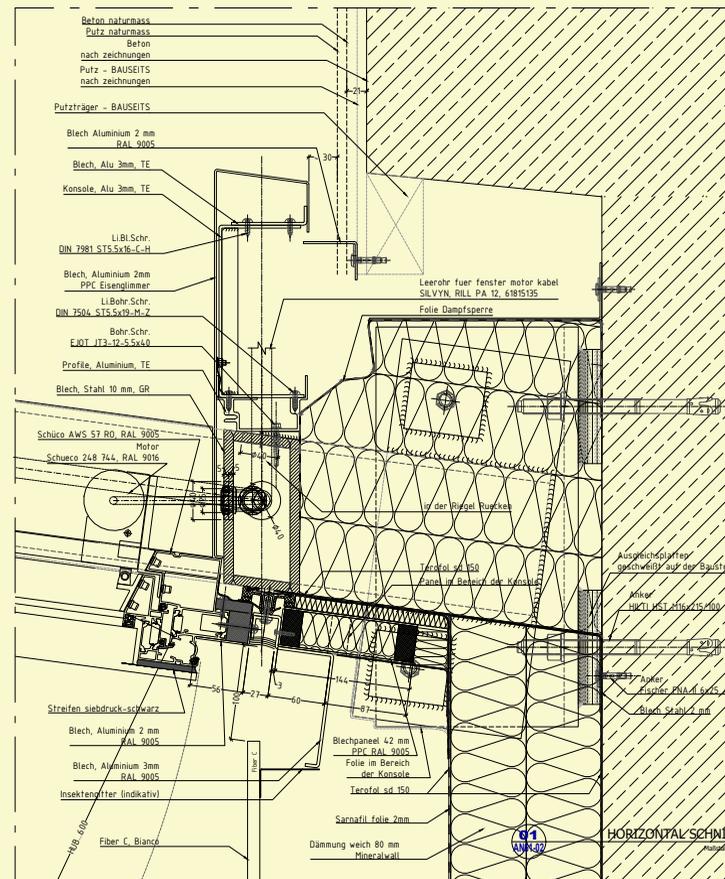


WU WIEN LLC Library & Learning Center ZAHA HADID ARCHITECTS

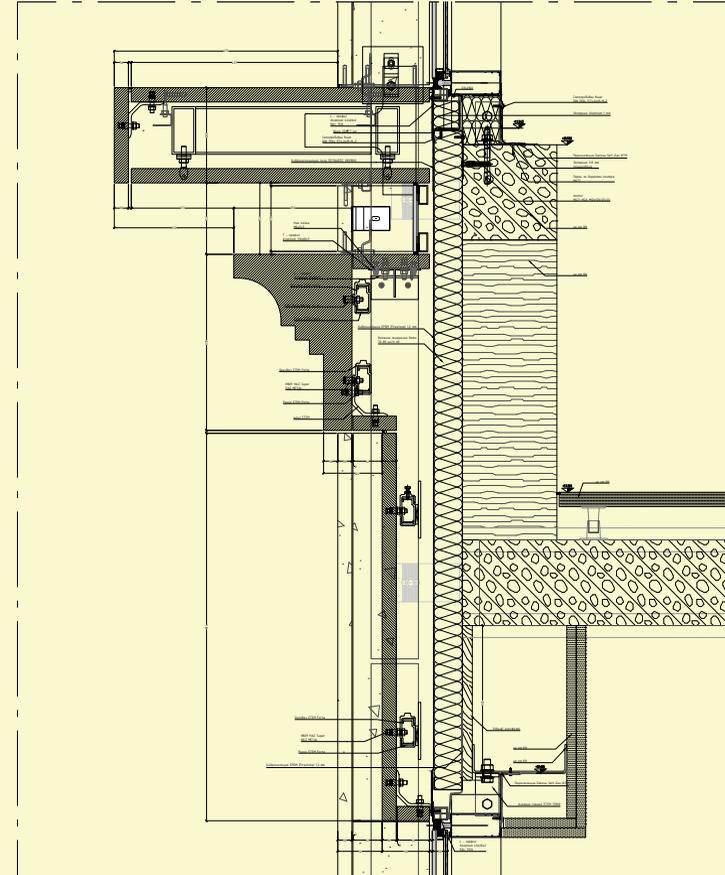
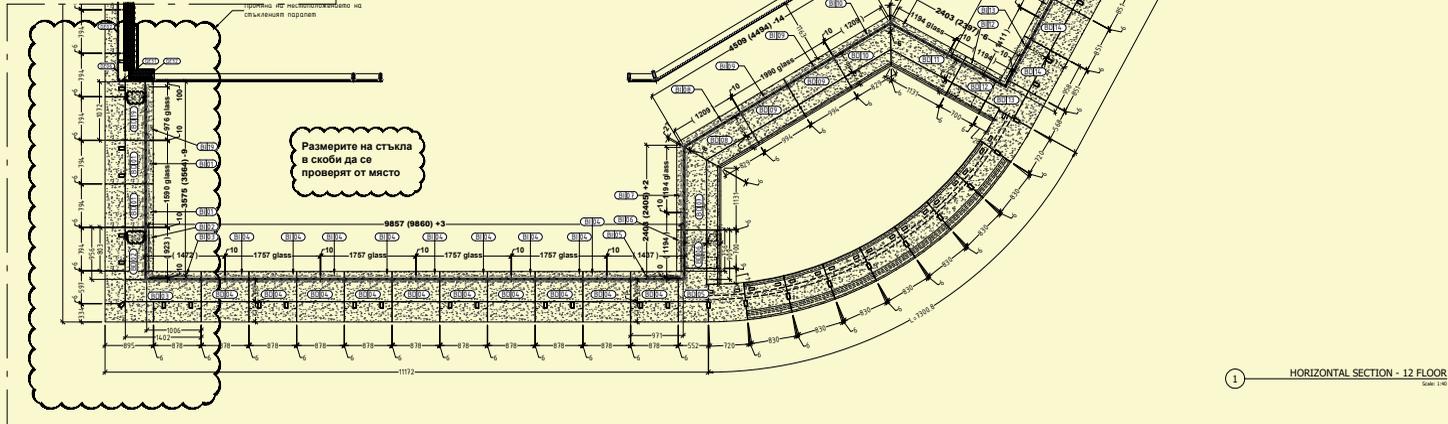


Location: Vienna, Austria
 Date of completion: 2014
 Area: 1300 sq. ft.
 Shop Drawings: 68 pcs @ ARCH D
 Cut Sheets: XX pcs
 Contractor: Prototyp

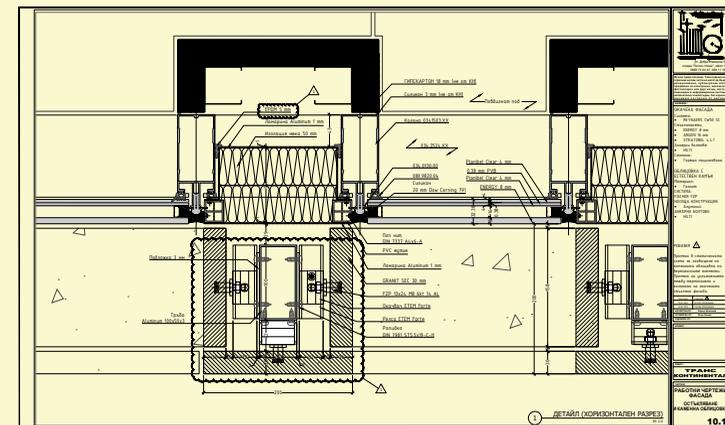
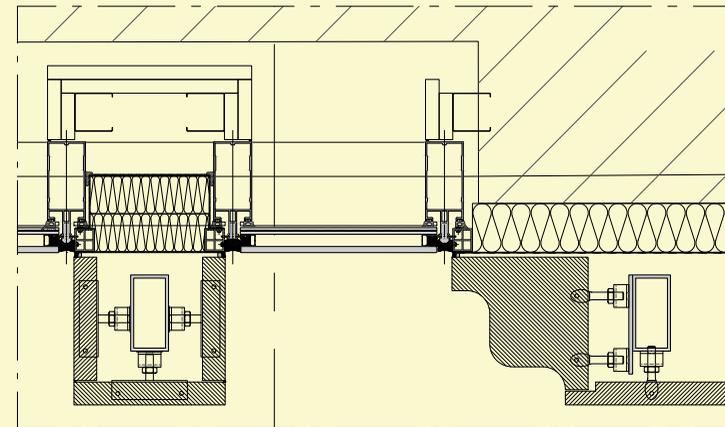




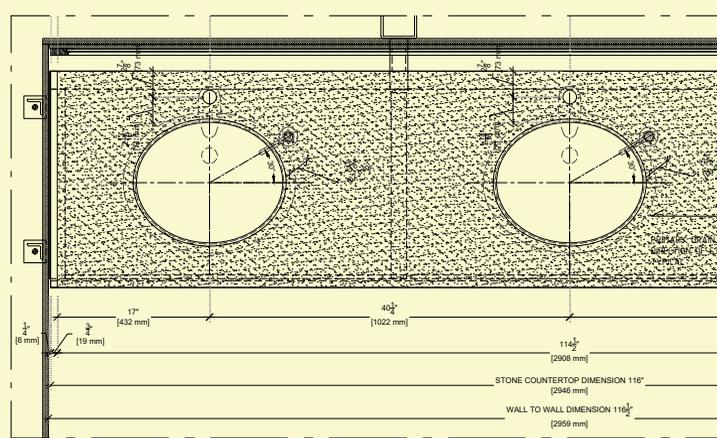
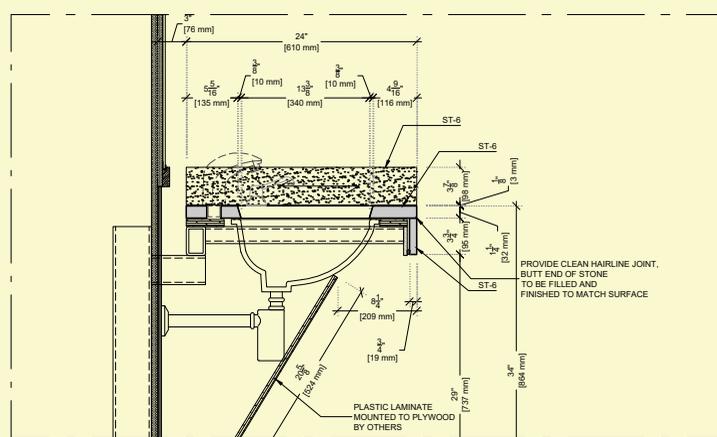
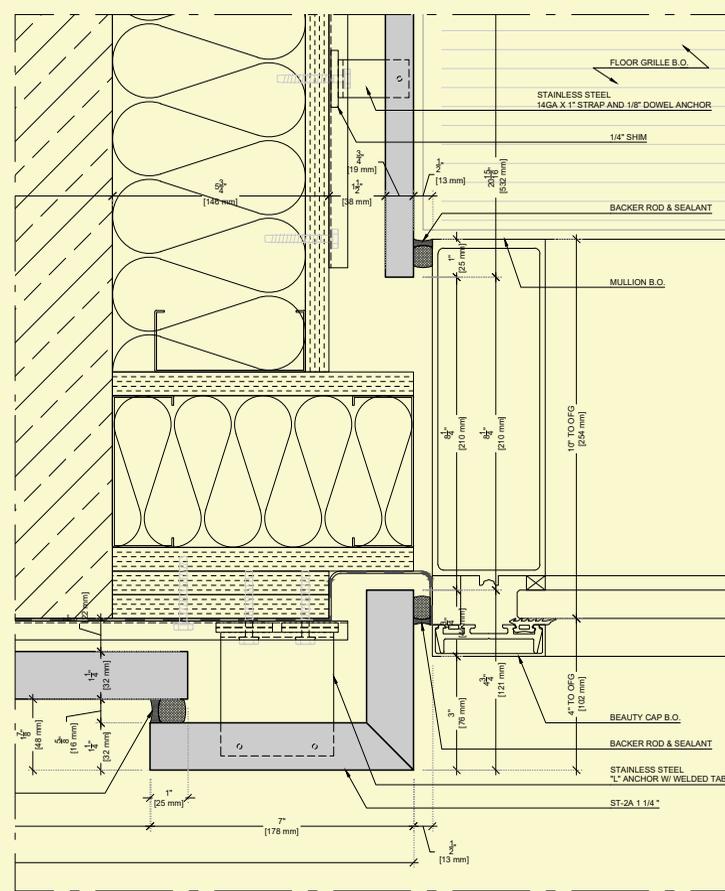
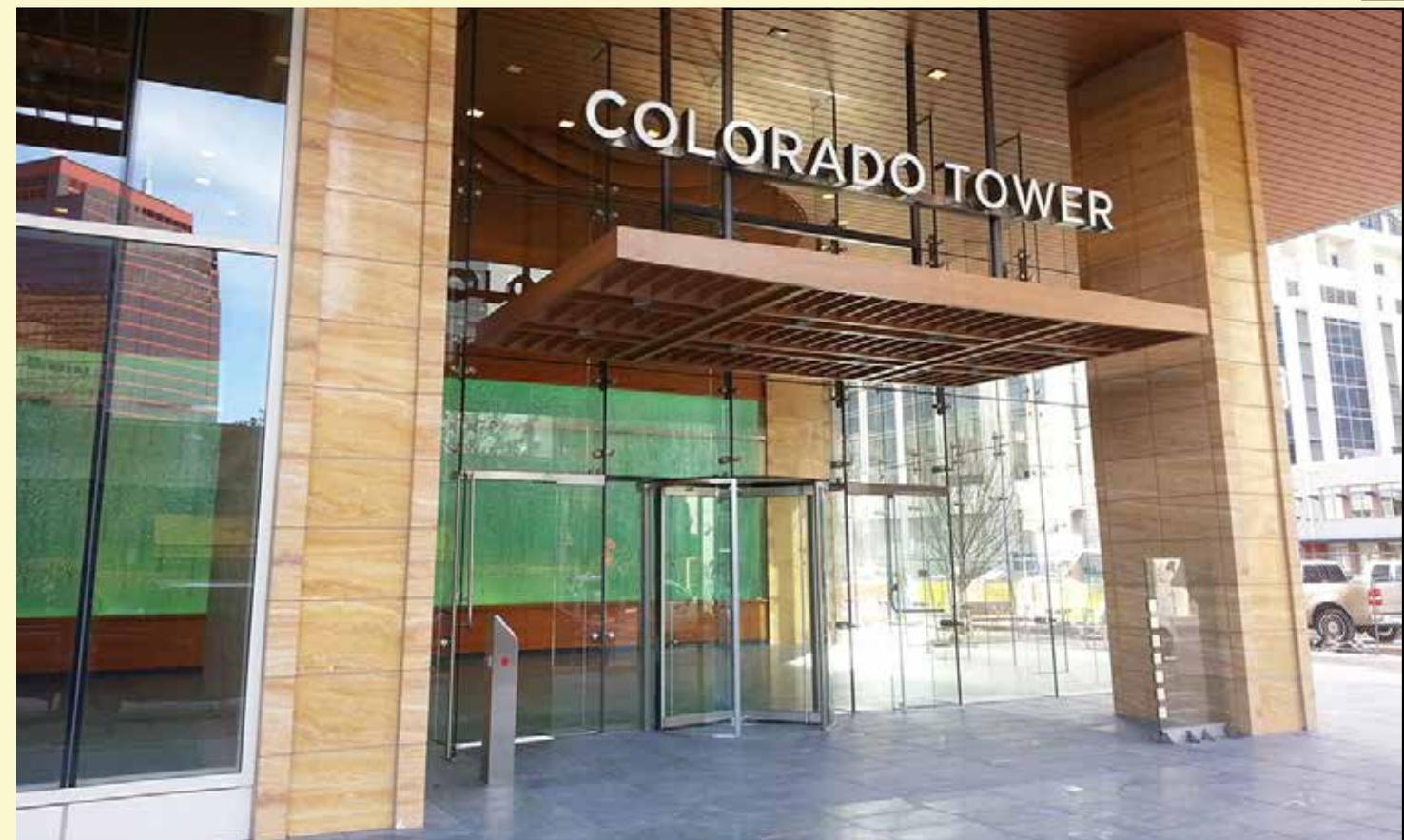
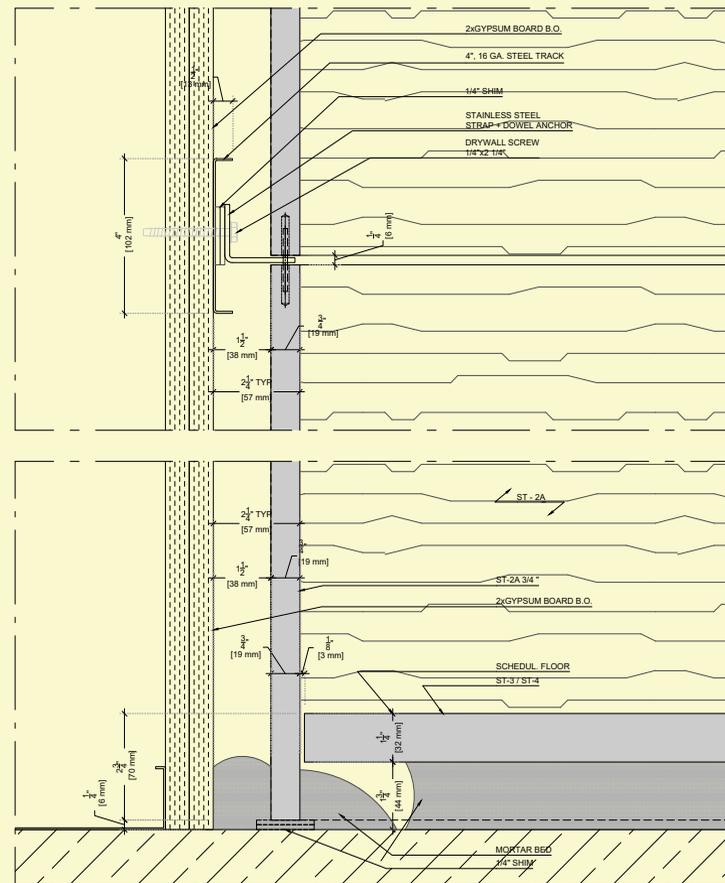
THE NEEDLE SECTOR ARCH



Location: Sofia, Bulgaria
 Date of completion: 2011
 Area: 38 500 sq. ft.
 Shop Drawings: 250 pcs @ ARCH D
 Cut Sheets: XX pcs
 Contractor: Kristian Neiko (glazing), Bulmarma (stone cladding)



Scope of Services:
 Surveying
 Test report for Stone anchorage
 Shop drawings & Workshop drawings for Stone cladding (Granite)
 Shop drawings & Workshop drawings for Curtain walls (REYNAERS)
 Shop drawings & Workshop drawings for Glass canopy

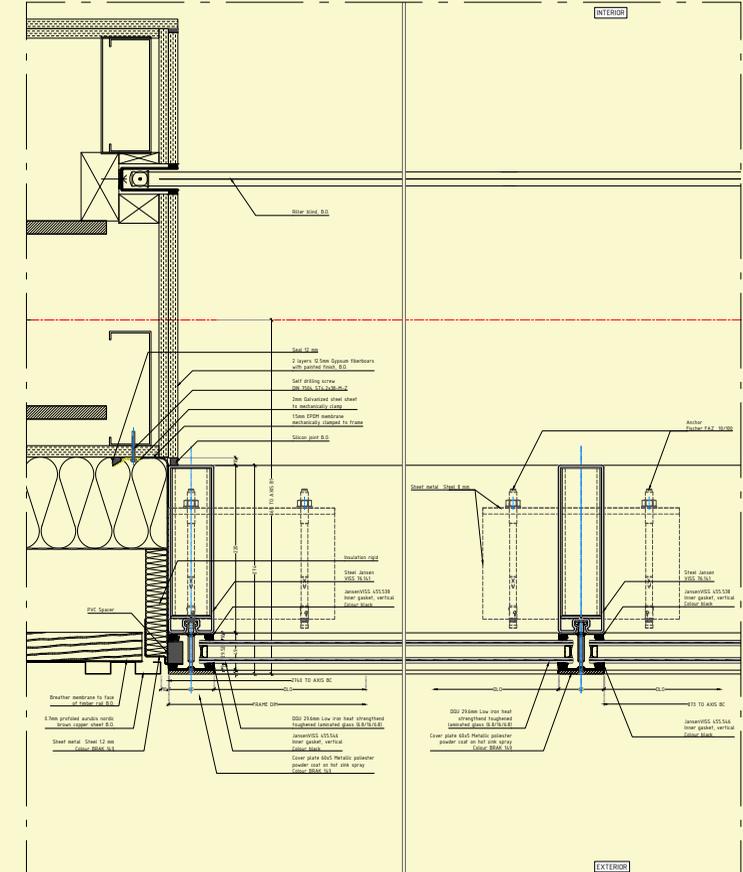
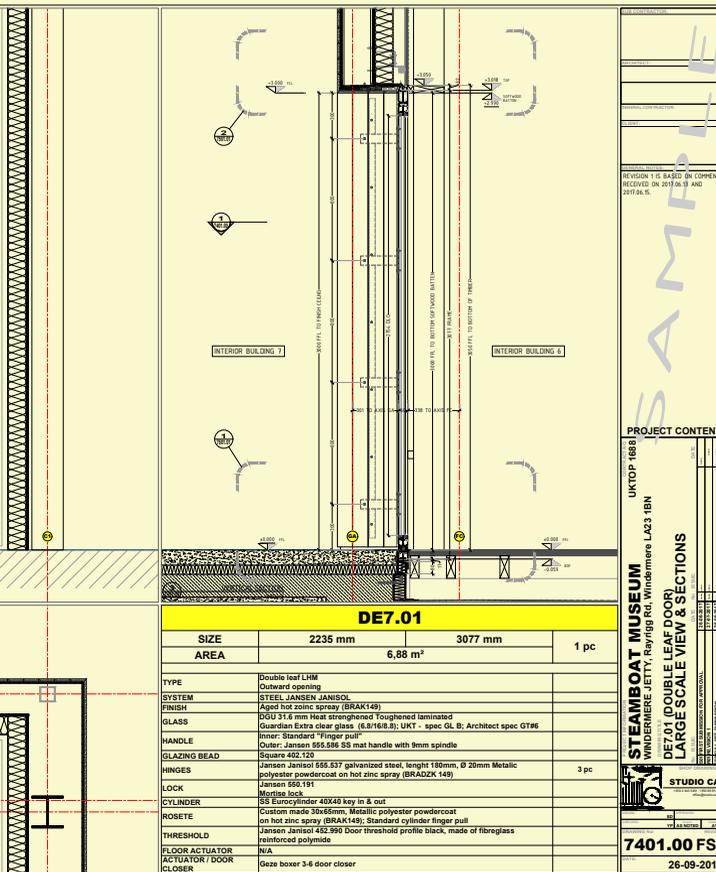
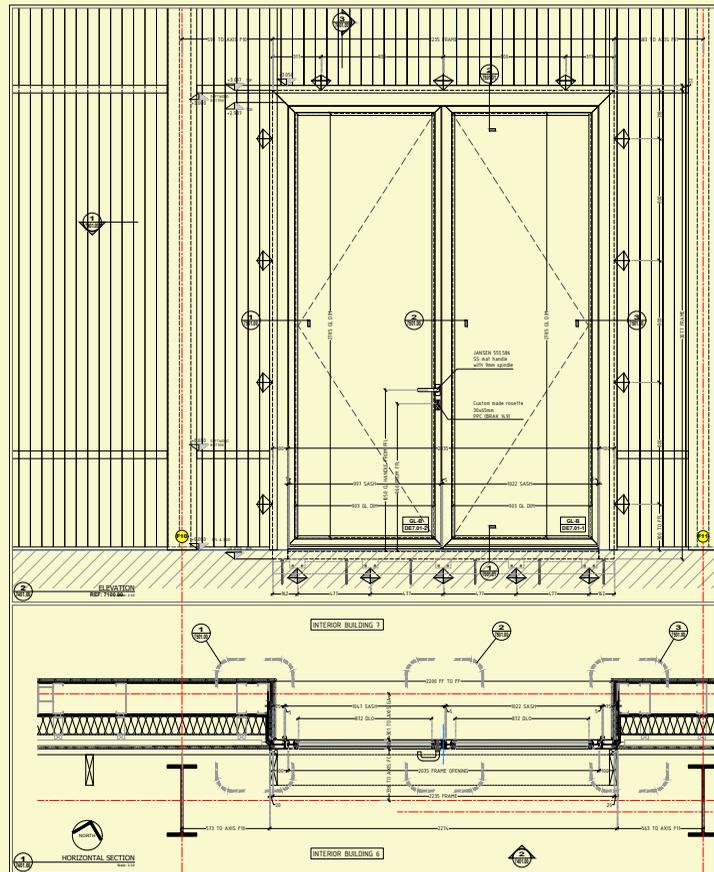
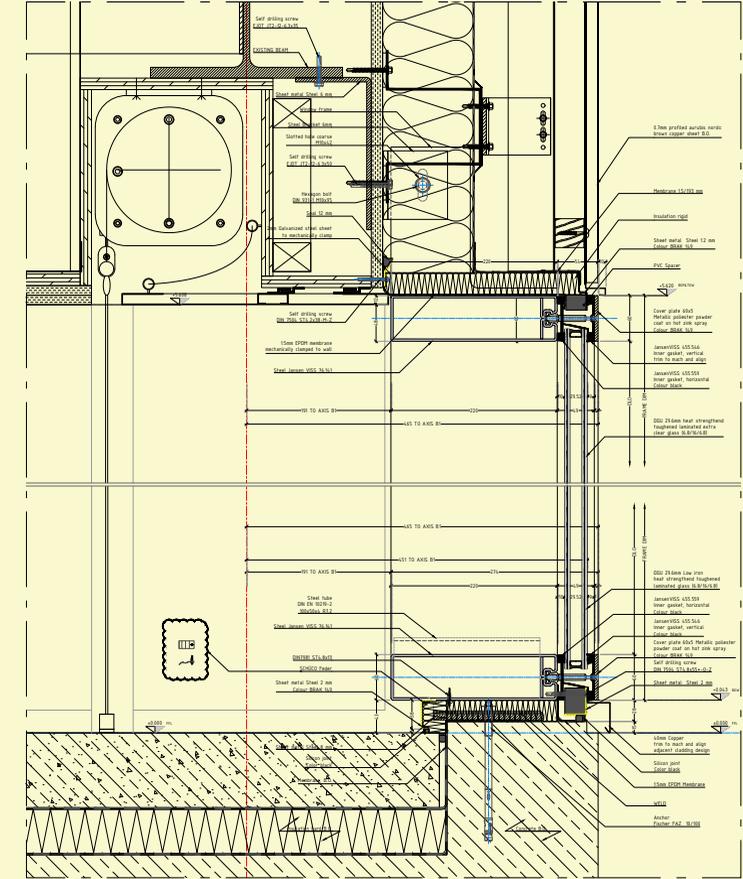
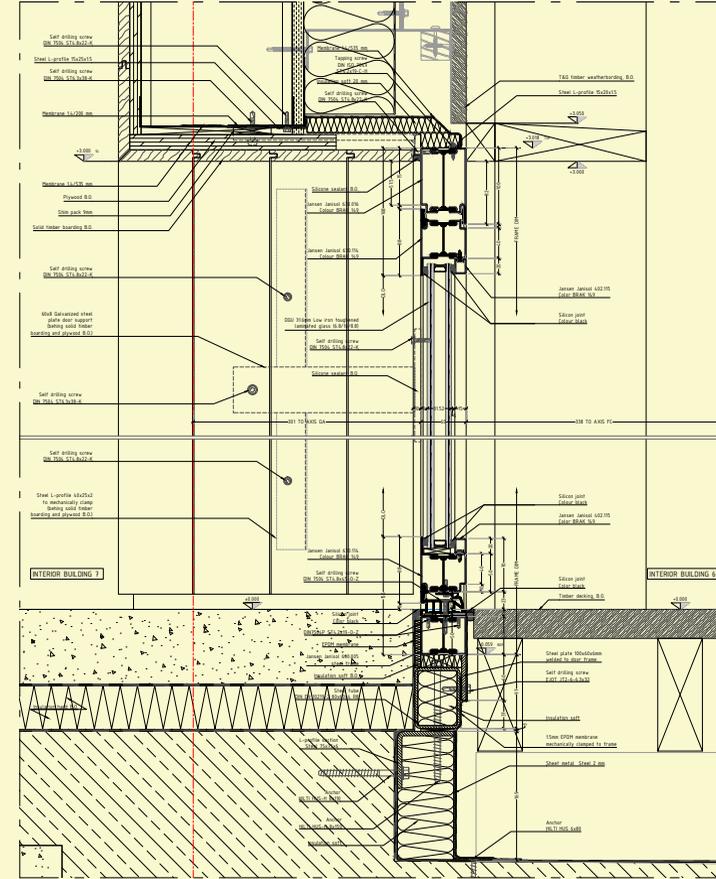
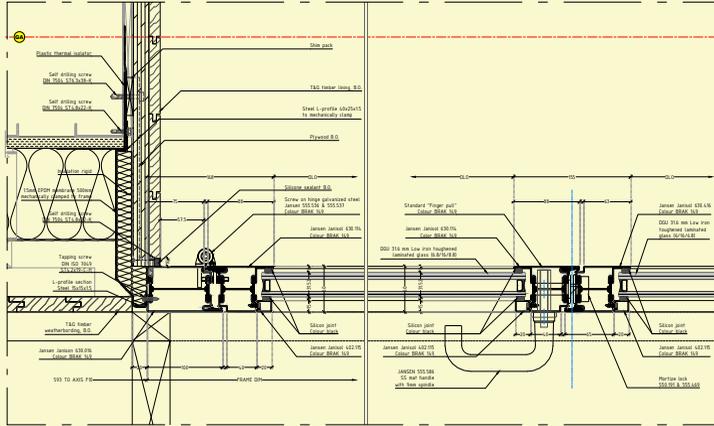


STEAMBOAT MUSEUM

CARMODY GROARKE



Location: Windermere, UK
 Date of completion: 2017
 Area: 4 133 sq. ft.
 Shop Drawings: 142 pcs @ ARCH D
 Contractor: UK TOP



| DE7.01 | | | |
|-----------------------|--|---------|------|
| SIZE | 2235 mm | 3077 mm | |
| AREA | 6,88 m ² | | 1 pc |
| TYPE | Double leaf LHM Outward opening | | |
| SYSTEM | STEEL JANSSEN JANISOL | | |
| FINISH | Aged hot zinc spray (BRAKY 48) | | |
| GLASS | GGI 516 mm Heat strengthened Toughened laminated Guardian Extra clear glass (6.8/16.8 B); UKT - spec GL B; Architect spec GT96 | | |
| HANDLE | Inner: Standard "Finger pull" Outer: Janssen 956.086 SS mat handle with 9mm spindle | | |
| GLAZING BEAD | Square 402.120 | | |
| HINGES | Janssen Janssol 956.037 galvanized steel, length 180mm, Ø 20mm Metallic polyester powdercoat on hot zinc spray (BRADZX 148) | | |
| LOCK | Janssen 956.191 Metric lock | | |
| CYLINDER | BS Eurocylinder 40X45 key in 8 out | | |
| ROBETE | Custom made 38x60mm; Metallic polyester powdercoat on hot zinc spray (BRAKY48); Standard cylinder finger pull | | |
| THRESHOLD | Janssen Janssol 402.980 Door threshold profile black, made of fibreglass reinforced polyamide | | |
| FLOOR ACTUATOR | N/A | | |
| CLOSER | Geze boxer 3-6 door closer | | |

REVISION 1 TO BE BASED ON COMMENTS RECEIVED ON 2017.06.13 AND 2017.06.15.

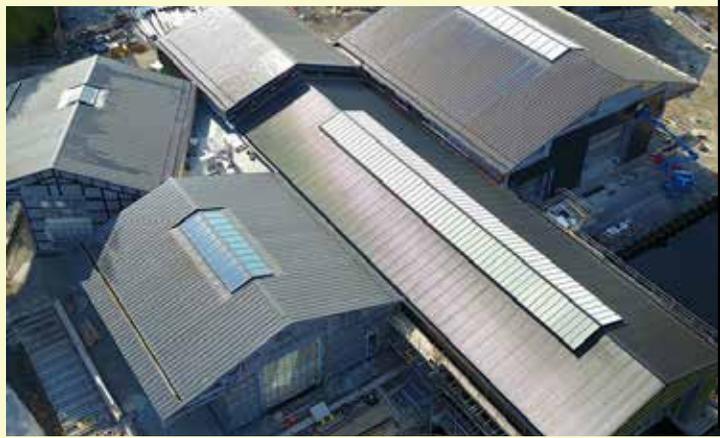
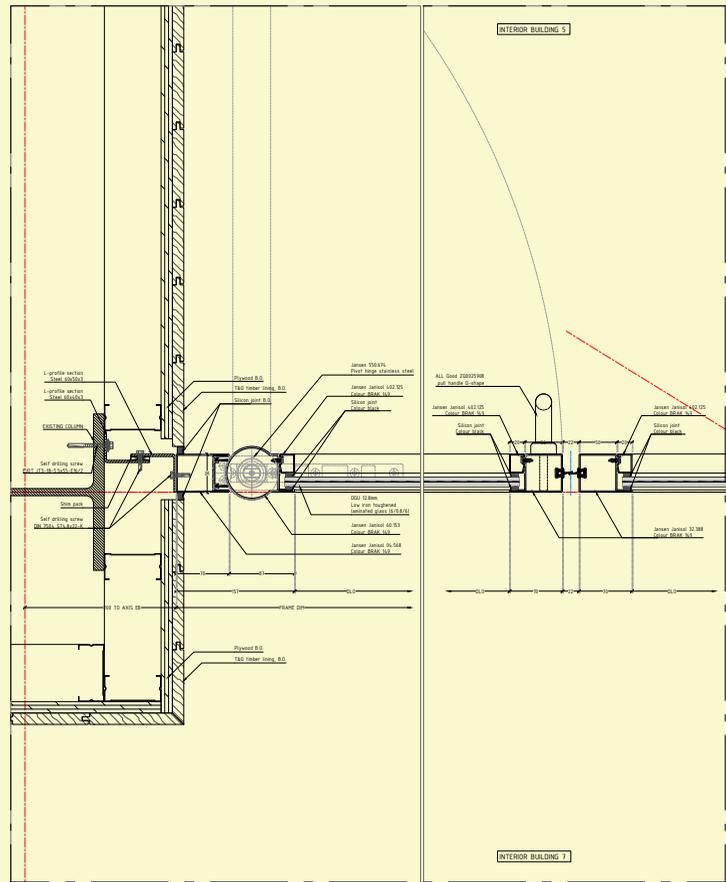
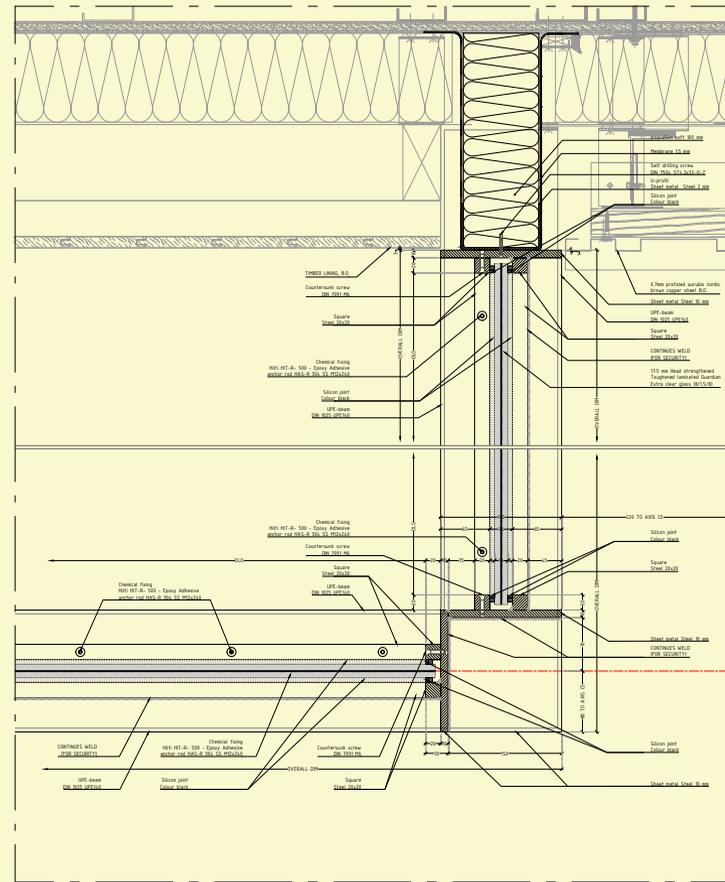
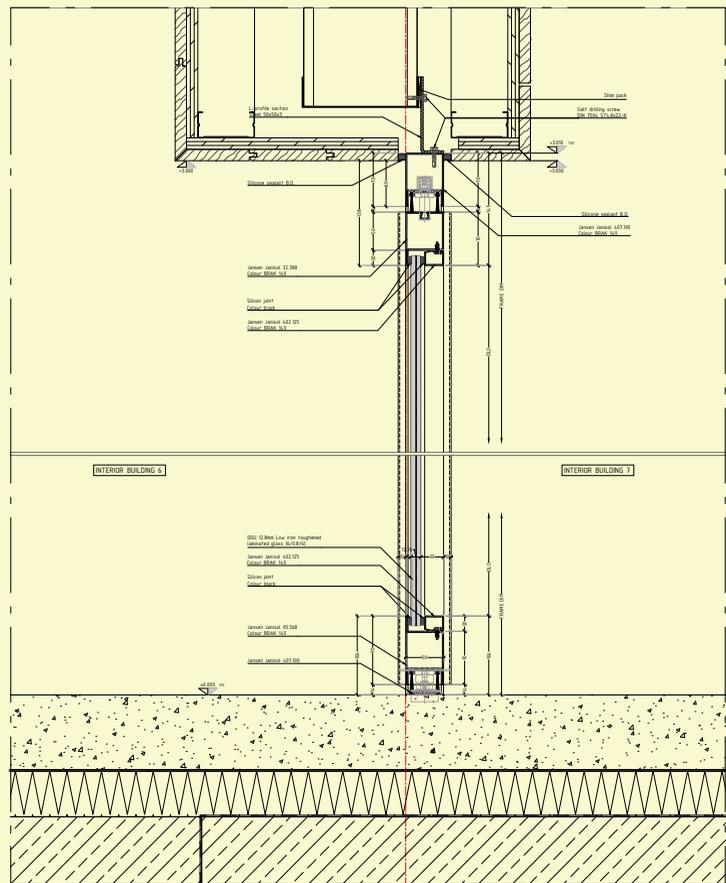
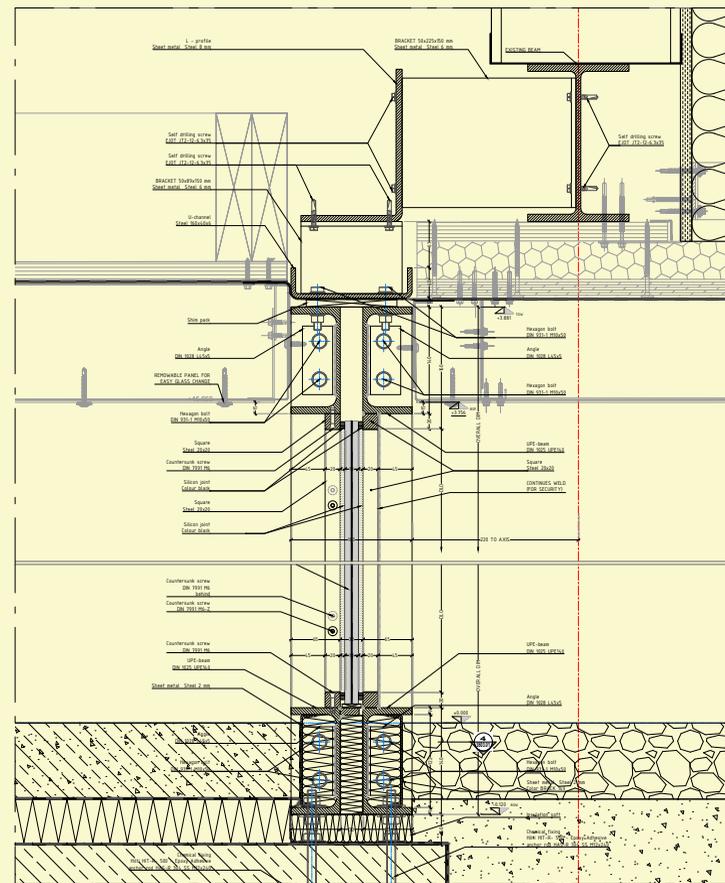
PROJECT CONTENT

STEAMBOAT MUSEUM
 WINDERMERE JETTY, Rayriggs Rd., Windermere LA23 1BN
 DE7.01 (DOUBLE LEAF DOOR)
 LARGE SCALE VIEW & SECTIONS

STUDIO CAD
 7401.00 FSS
 26-09-2017

STUDIO CAD

Scope of Services:
 Shop drawing for:
 Curtain wall
 Doors
 Windows



В.02.PAN.29 - Изгледы

1. В.02.PAN.29 - Изгледы (схема 1)

2. В.02.PAN.29 - Изгледы (схема 2)

3. В.02.PAN.29 - Изгледы (схема 3)

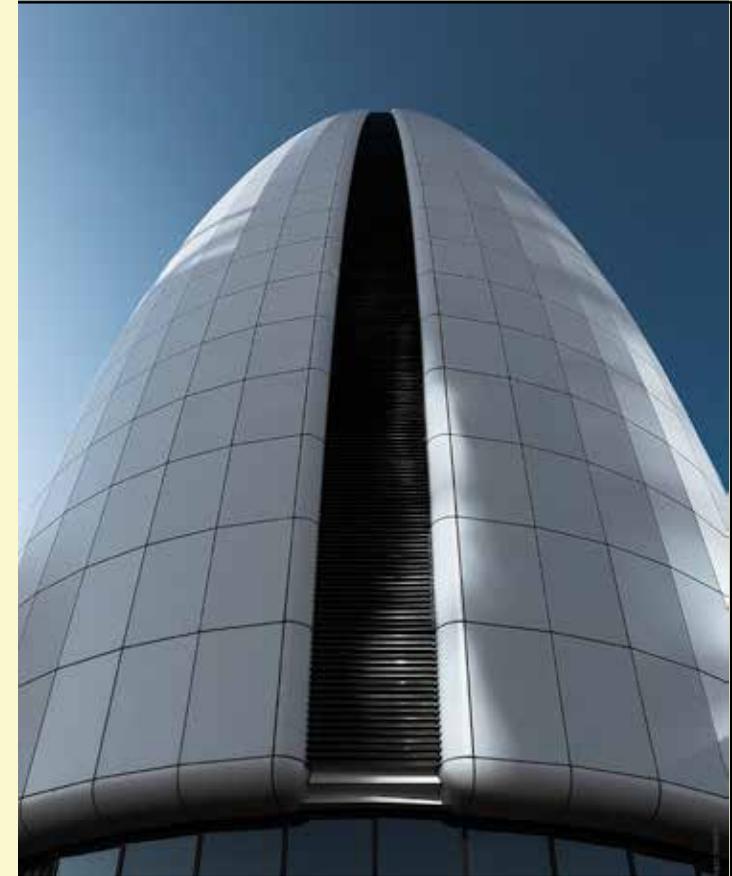
4. В.02.PAN.29 - Изгледы (схема 4)

5. В.02.PAN.29 - Изгледы (схема 5)

6. В.02.PAN.29 - Изгледы (схема 6)

| № | Поз. № | Обозначение | Вид | Материал | Покрители | Размер (длина, ширина) | Кол-во шт. | Единица измерения | Тяга за материал |
|---|--------|-------------|--------------|----------|-----------------|---------------------------|------------|---------------------|---------------------|
| 1 | Поз.01 | Панель | Панель 8 м | Алюминий | Профилированные | 0,021 м ² 1,50 | 270 кг/шт. | 0,43 м ³ | 8,91 м ³ |
| 2 | Поз.02 | Панель | Панель 3 м | Алюминий | Профилированные | 0,016 м ² 1,50 | 270 кг/шт. | 0,31 м ³ | 8,91 м ³ |
| 3 | Поз.03 | Панель | Панель 8 м | Алюминий | Профилированные | 0,021 м ² 1,50 | 270 кг/шт. | 0,43 м ³ | 8,91 м ³ |
| 4 | Поз.04 | Панель | Панель 3 м | Алюминий | Профилированные | 0,016 м ² 1,50 | 270 кг/шт. | 0,31 м ³ | 8,91 м ³ |
| 5 | Поз.05 | Панель | Панель 4,8 м | Алюминий | Профилированные | 0,016 м ² 1,50 | 270 кг/шт. | 0,31 м ³ | 8,91 м ³ |
| 6 | Поз.06 | Панель | Панель 4,8 м | Алюминий | Профилированные | 0,016 м ² 1,50 | 270 кг/шт. | 0,31 м ³ | 8,91 м ³ |

РАЗКРОЙ НА АЛУМИНИЕВИ ПАНЕЛИ СХЕМА НА СПОБЯВАНЕ В.02.PAN.29-1



Изглед А (след огъване)

1. В.02.PAN.29 - Изгледы (схема 1)

2. В.02.PAN.29 - Изгледы (схема 2)

3. В.02.PAN.29 - Изгледы (схема 3)

4. В.02.PAN.29 - Изгледы (схема 4)

5. В.02.PAN.29 - Изгледы (схема 5)

6. В.02.PAN.29 - Изгледы (схема 6)

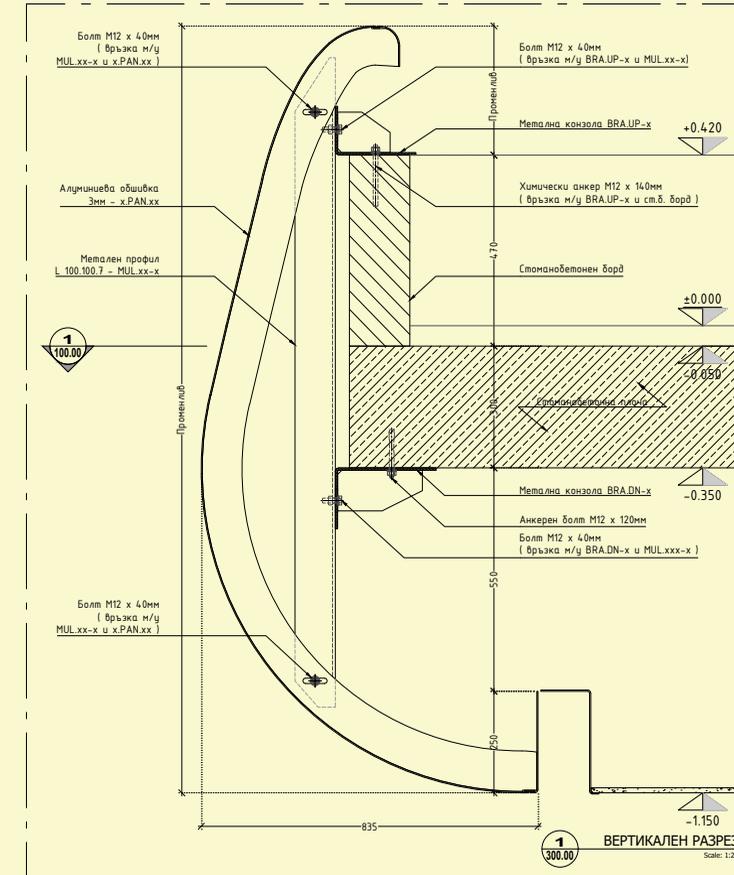
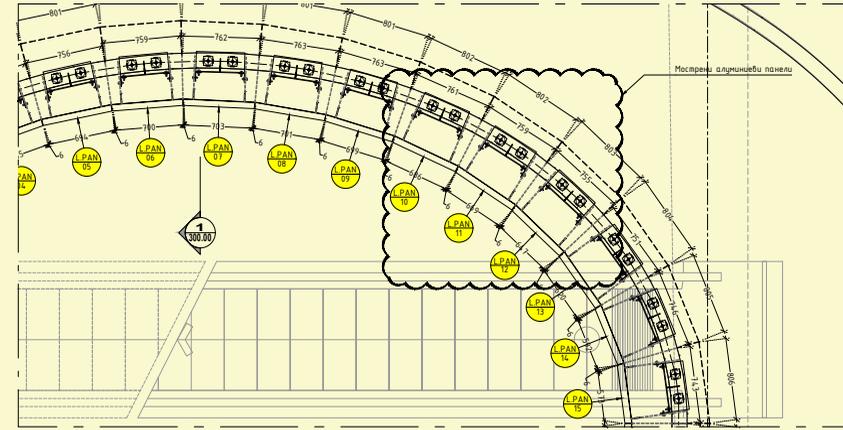
| № | Поз. № | Обозначение | Вид | Материал | Покрители | Размер (длина, ширина) | Кол-во шт. | Единица измерения | Тяга за материал |
|---|--------|-------------|--------------|----------|-----------------|---------------------------|------------|---------------------|---------------------|
| 1 | Поз.01 | Панель | Панель 8 м | Алюминий | Профилированные | 0,021 м ² 1,50 | 270 кг/шт. | 0,43 м ³ | 8,91 м ³ |
| 2 | Поз.02 | Панель | Панель 3 м | Алюминий | Профилированные | 0,016 м ² 1,50 | 270 кг/шт. | 0,31 м ³ | 8,91 м ³ |
| 3 | Поз.03 | Панель | Панель 8 м | Алюминий | Профилированные | 0,021 м ² 1,50 | 270 кг/шт. | 0,43 м ³ | 8,91 м ³ |
| 4 | Поз.04 | Панель | Панель 3 м | Алюминий | Профилированные | 0,016 м ² 1,50 | 270 кг/шт. | 0,31 м ³ | 8,91 м ³ |
| 5 | Поз.05 | Панель | Панель 4,8 м | Алюминий | Профилированные | 0,016 м ² 1,50 | 270 кг/шт. | 0,31 м ³ | 8,91 м ³ |
| 6 | Поз.06 | Панель | Панель 4,8 м | Алюминий | Профилированные | 0,016 м ² 1,50 | 270 кг/шт. | 0,31 м ³ | 8,91 м ³ |

РАЗКРОЙ НА АЛУМИНИЕВИ ПАНЕЛИ ИЗРАБОТКА НА ПОЗИЦИИТЕ В.02.PAN.29-2

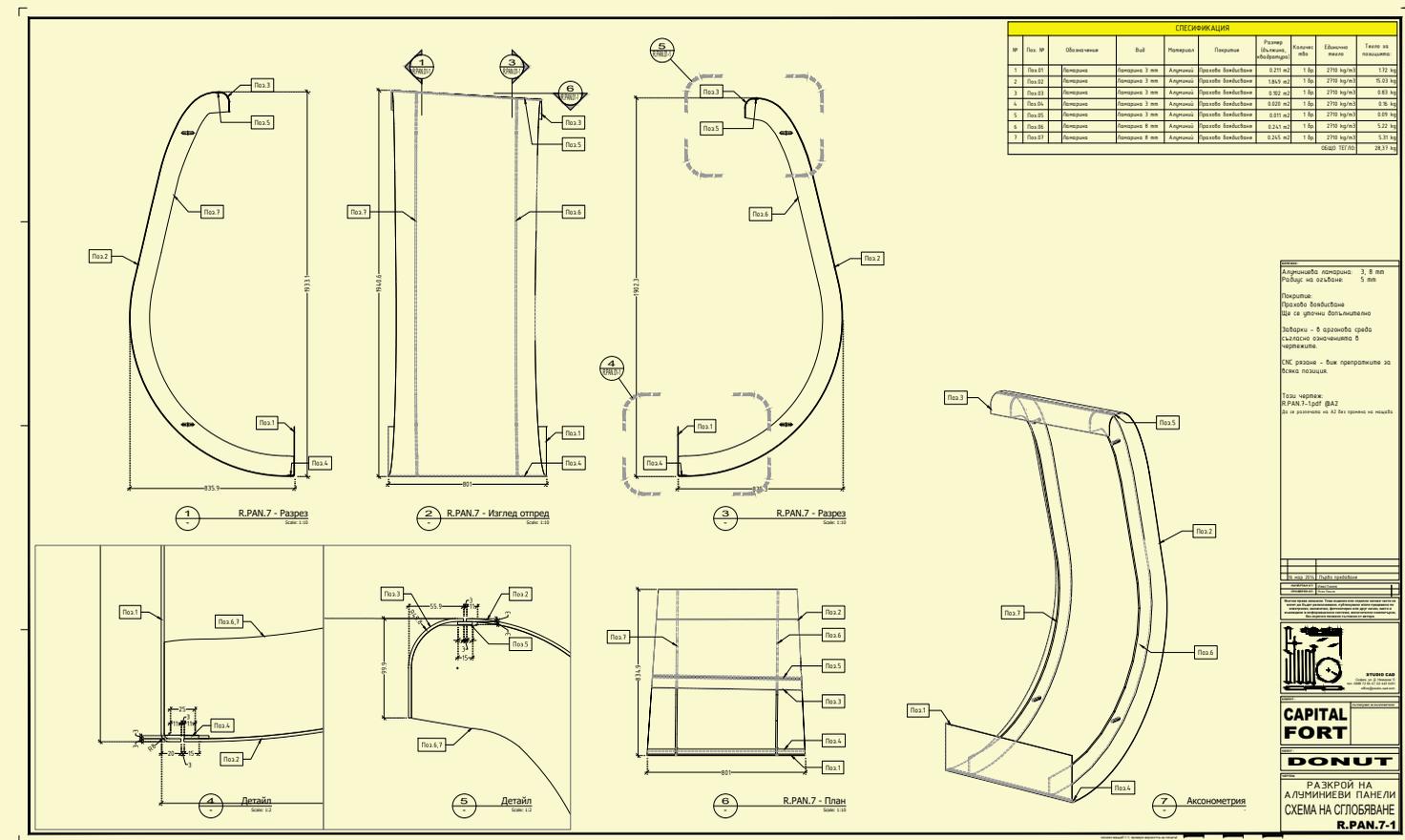
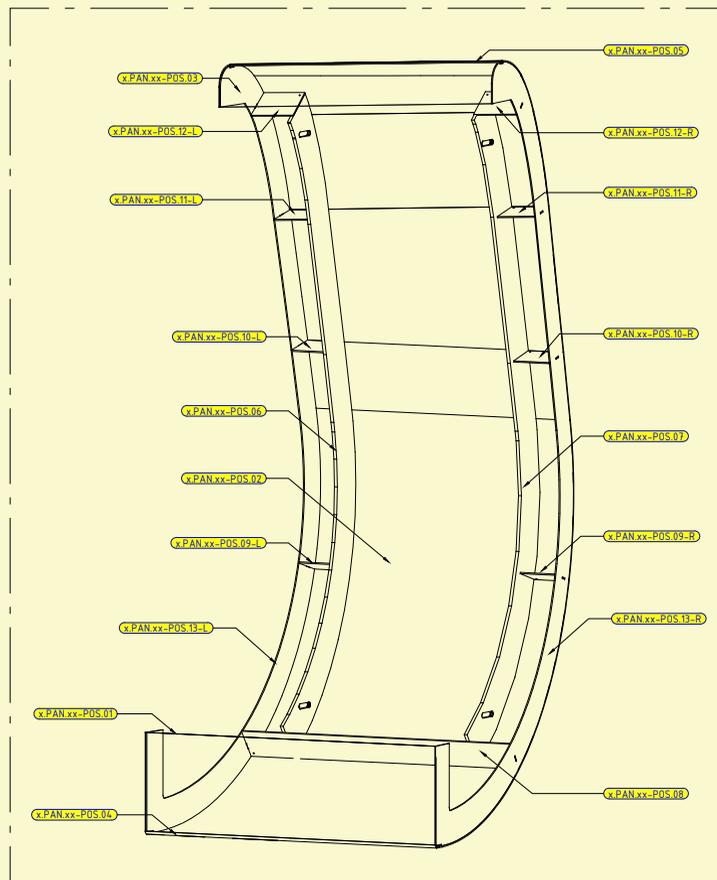
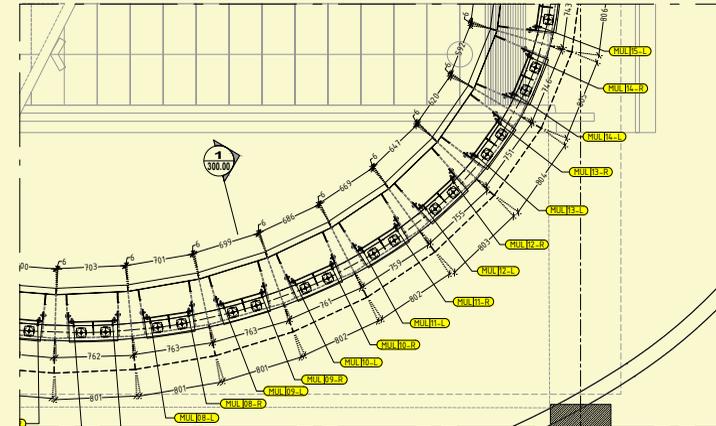
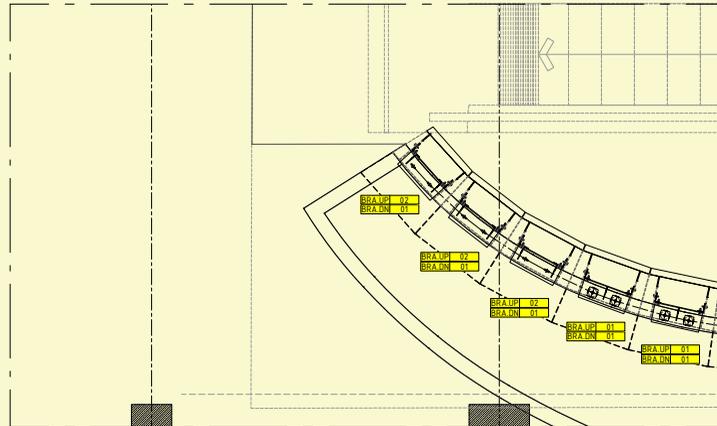


DONUT

ATKINS & A&A ARCHITECTS

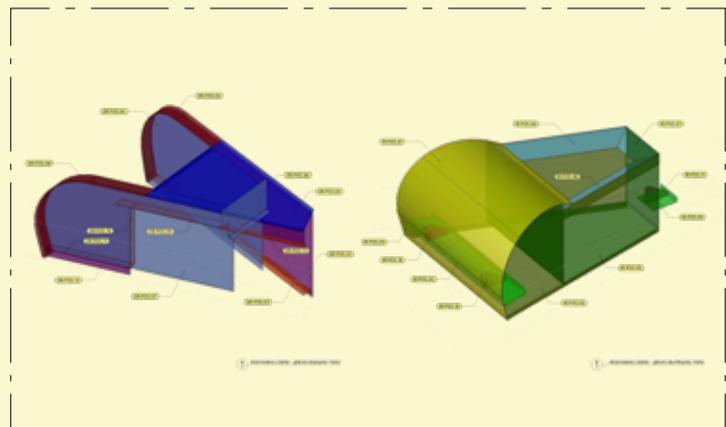
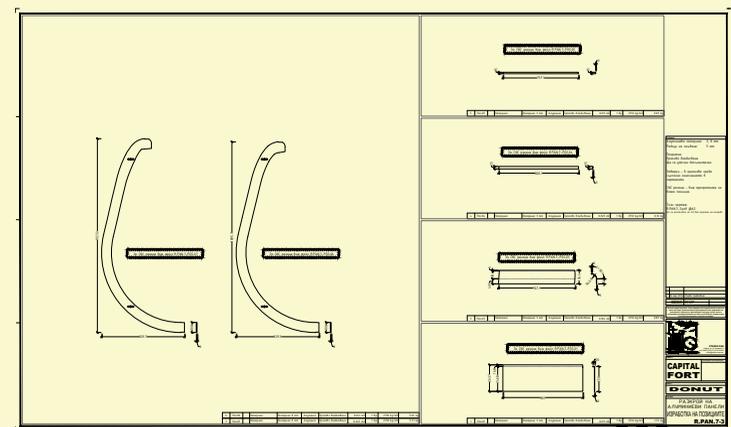
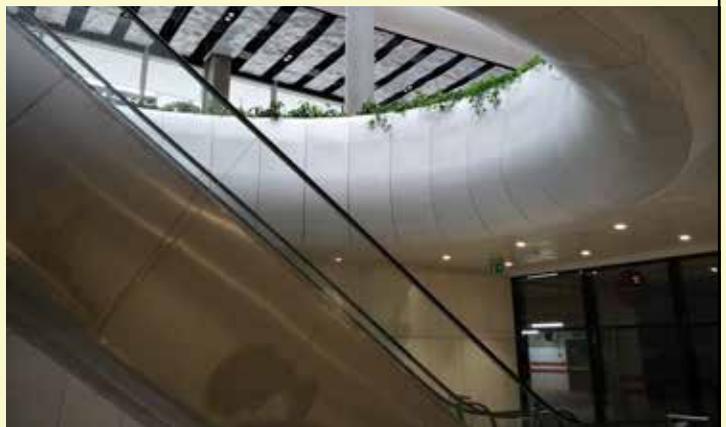
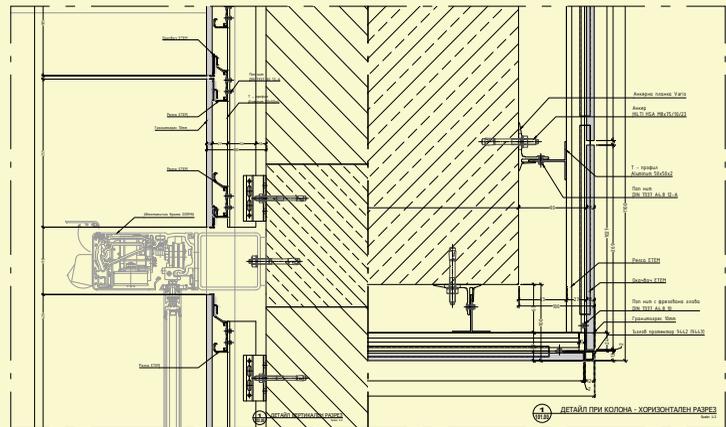
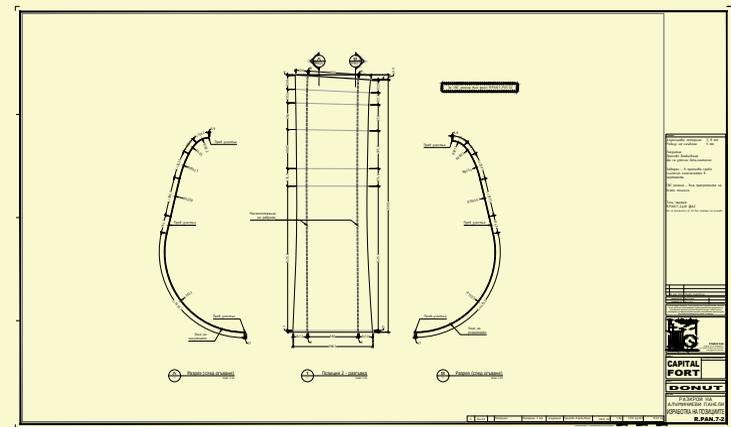
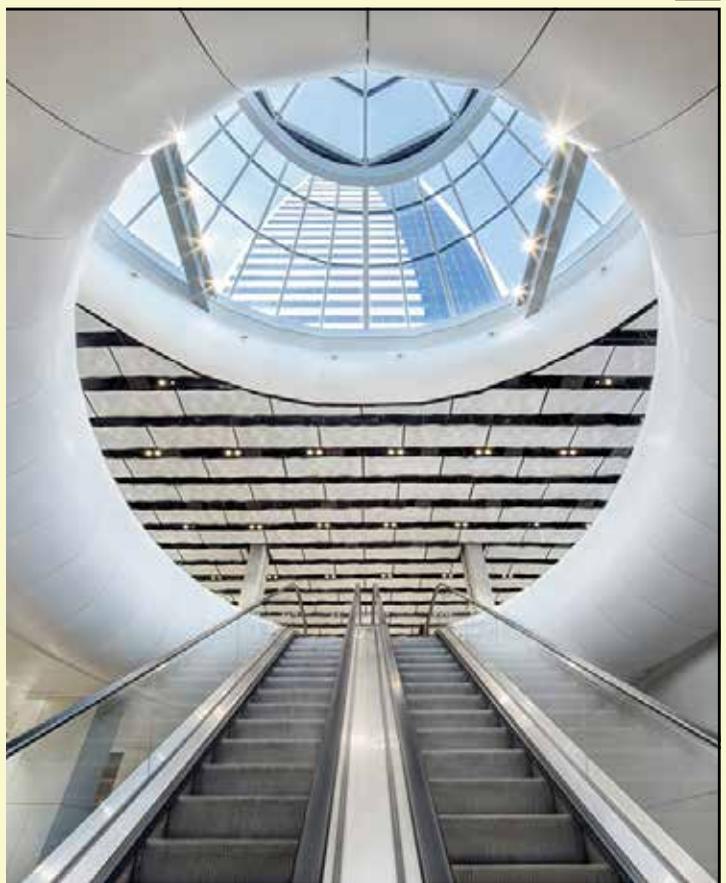
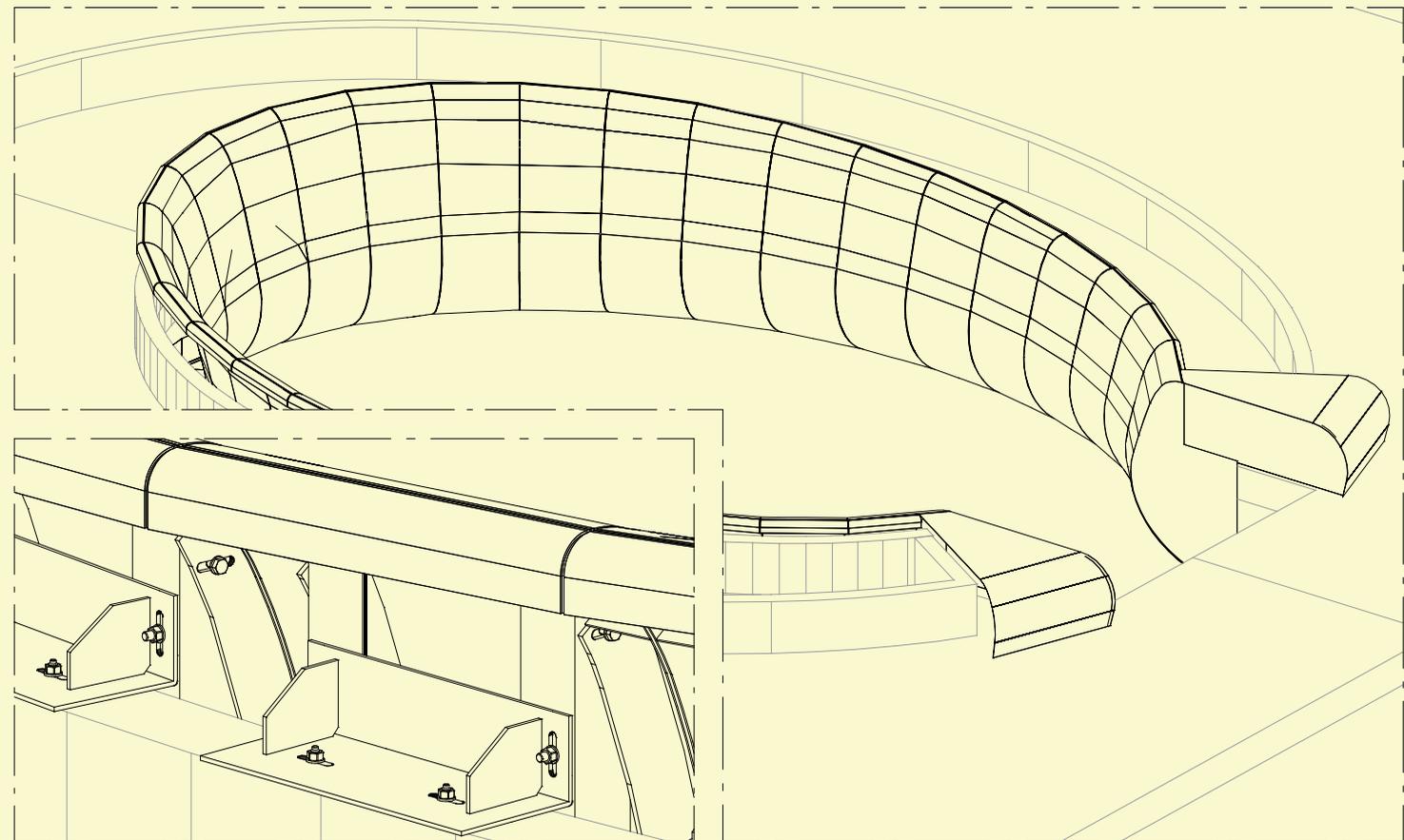


Location: Sofia, Bulgaria
 Date of completion: 2014
 Area: 6 135 sq. ft.
 Shop Drawings: XX pcs @ ARCH D
 Cut Sheets: XX pcs
 Contractor: Kristian Neiko, TAL Engineering



Scope of Services:
 Shop drawings & Workshop drawings for:
 Aluminum sheet panels above escalators
 Technical execution design and mechanism for recycle bins
 Interior cladding (ceramic panels)

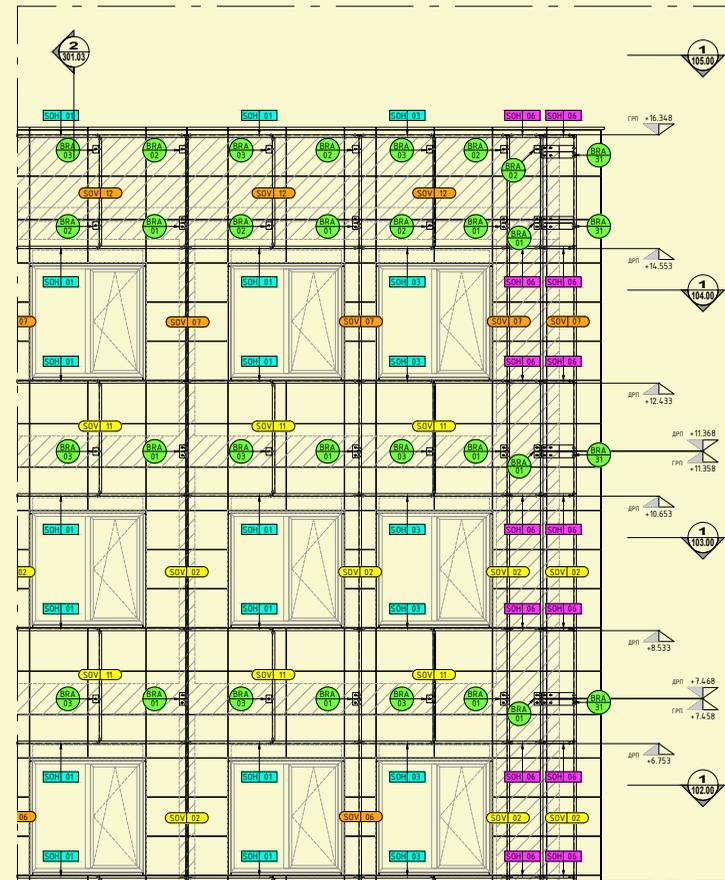
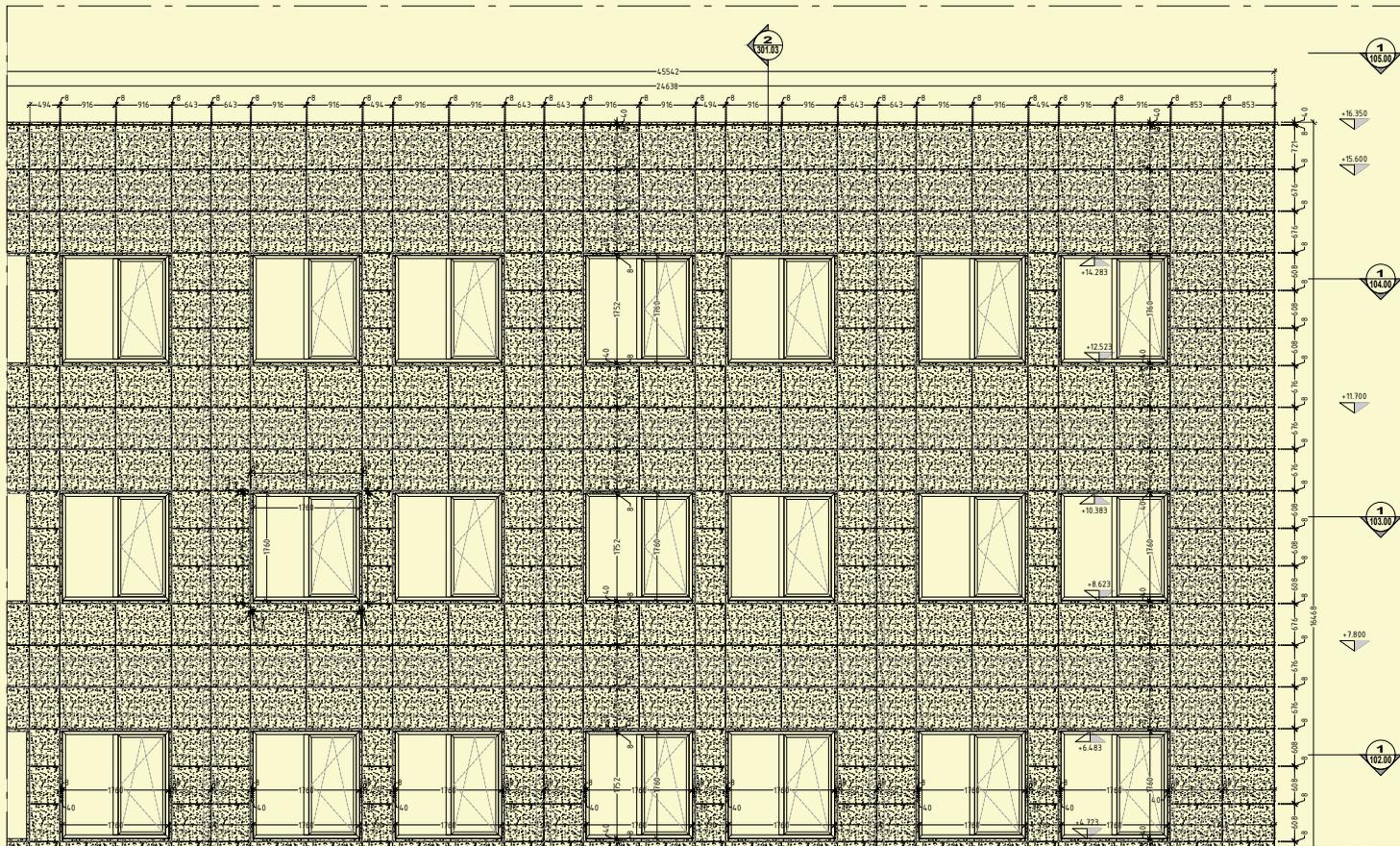
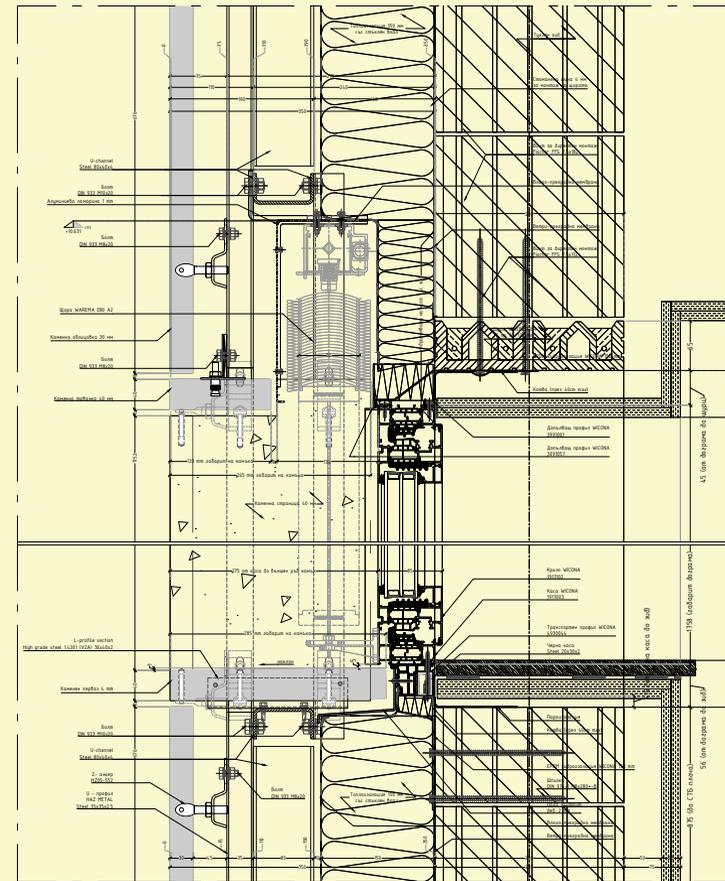
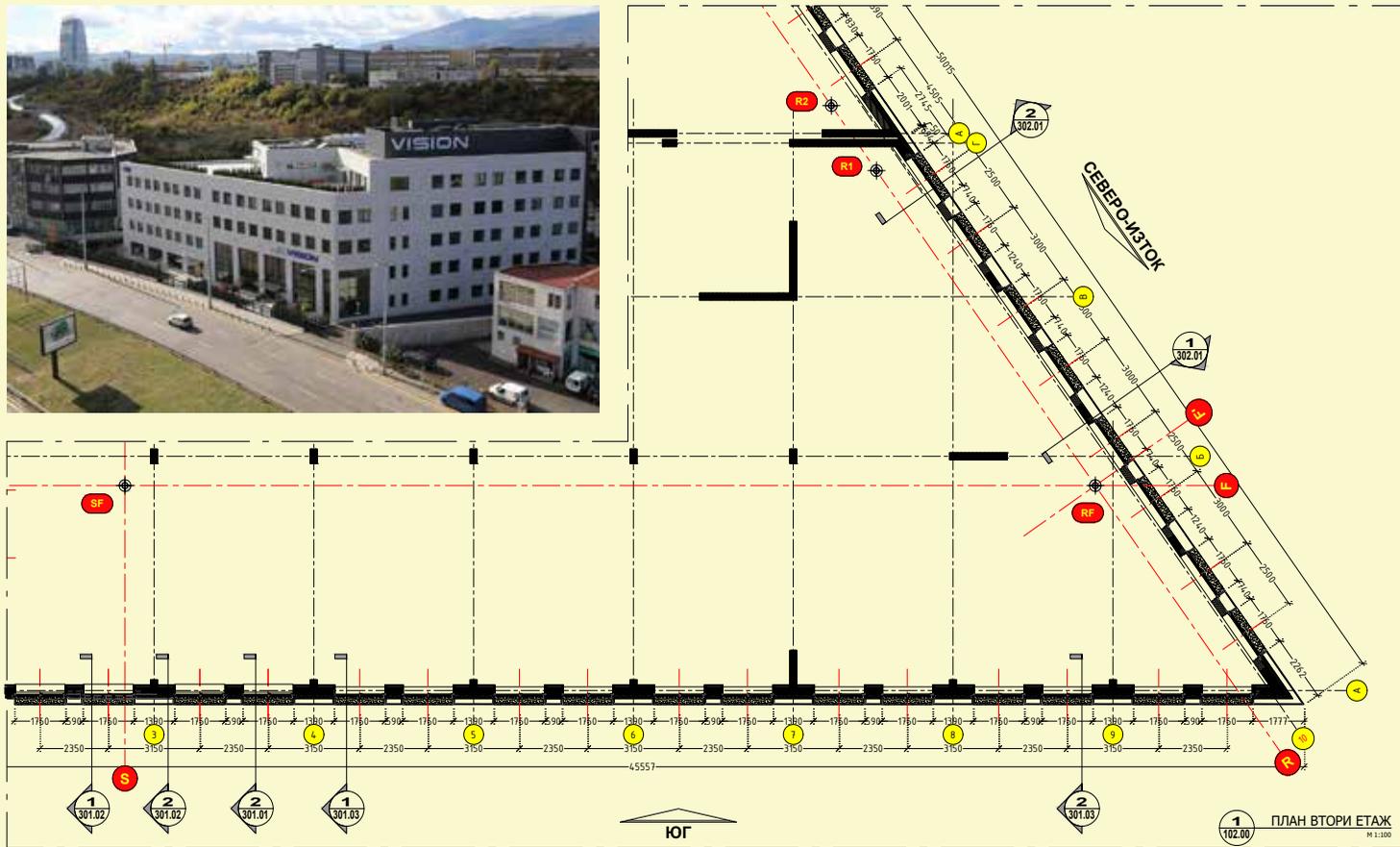
STUDIO CAD



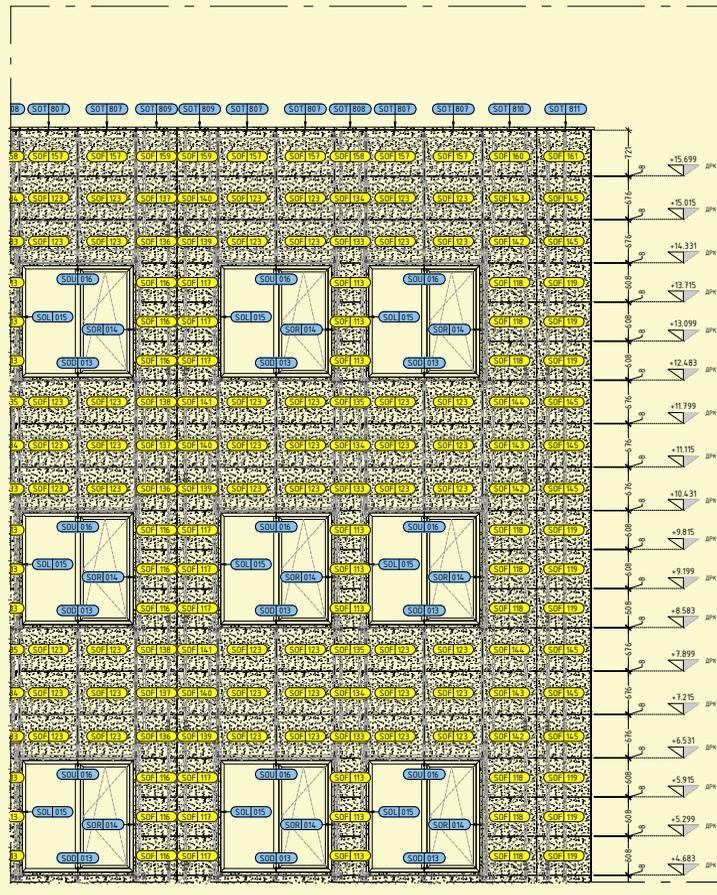
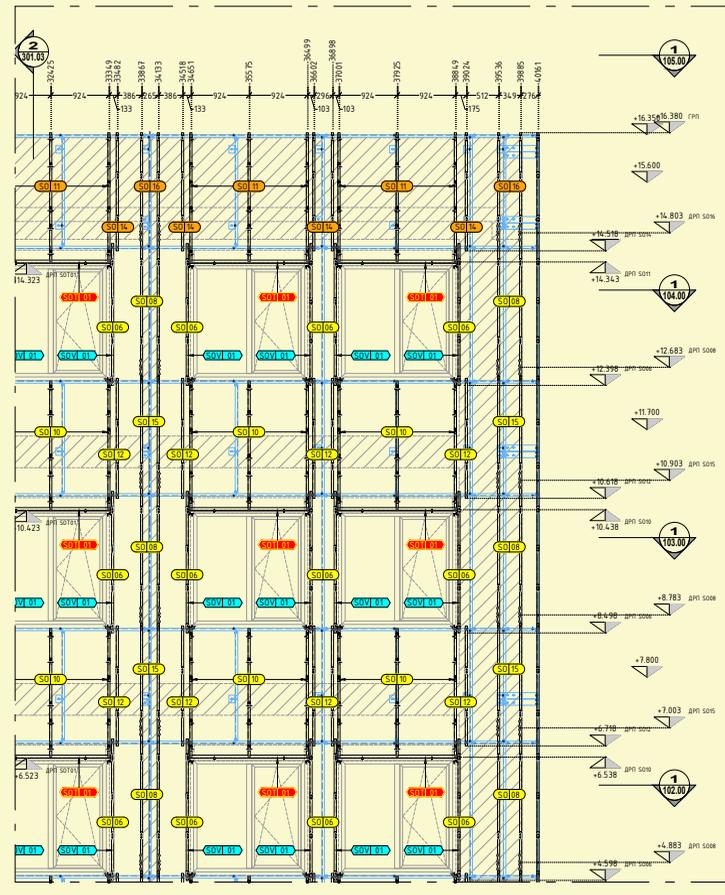
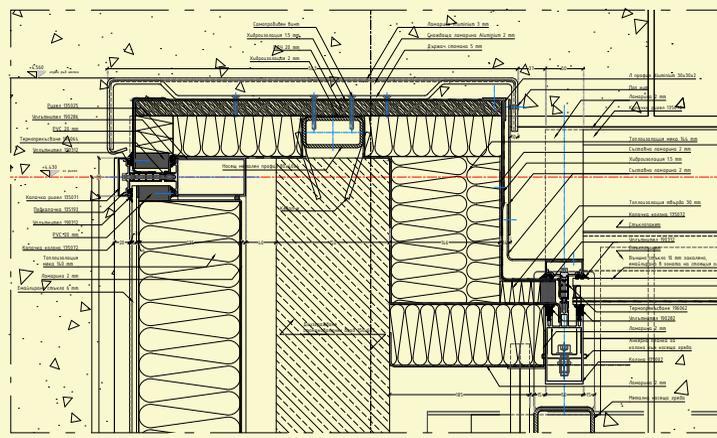
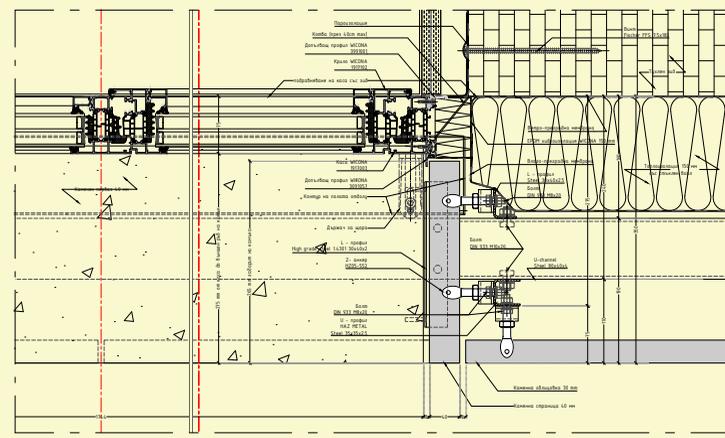
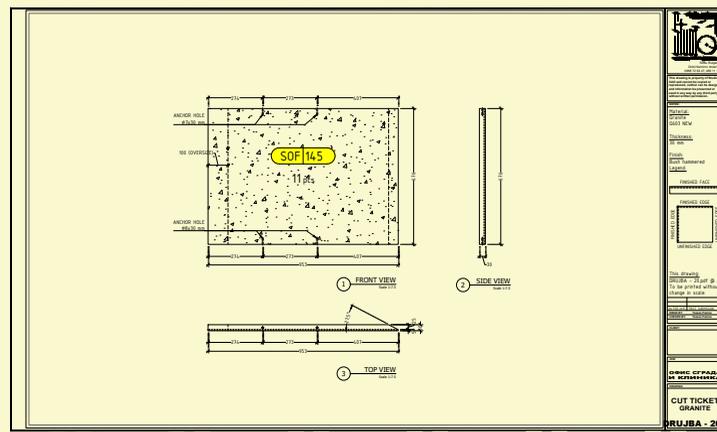
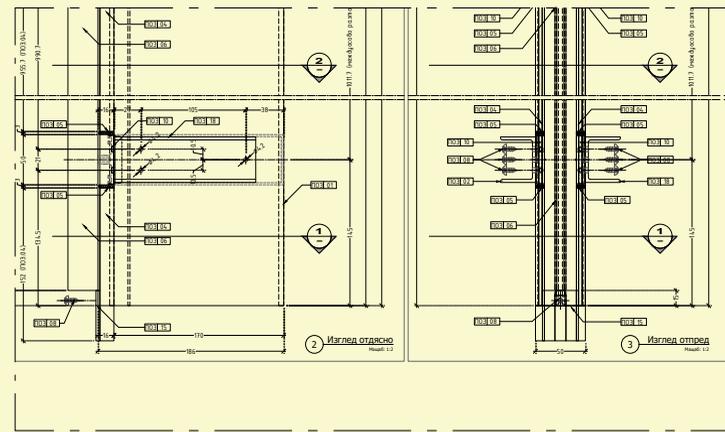
VISION CLINIC ARTPOINT STUDIO



Location: Sofia, Bulgaria
 Date of completion: 2015
 Area: 57 457 sq. ft.
 Shop Drawings: 172 pcs @ AI
 Cut Sheets: XX pcs
 Contractor: Swiss Project Management (SPM)

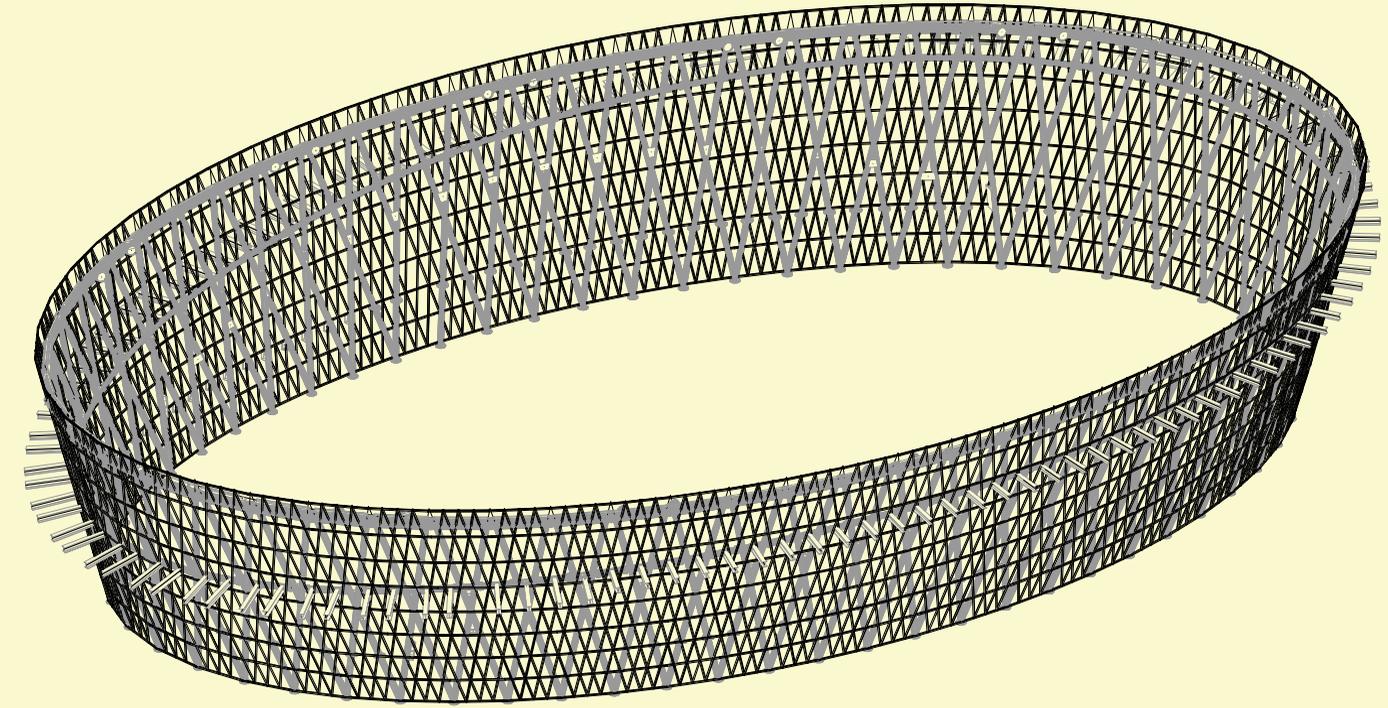
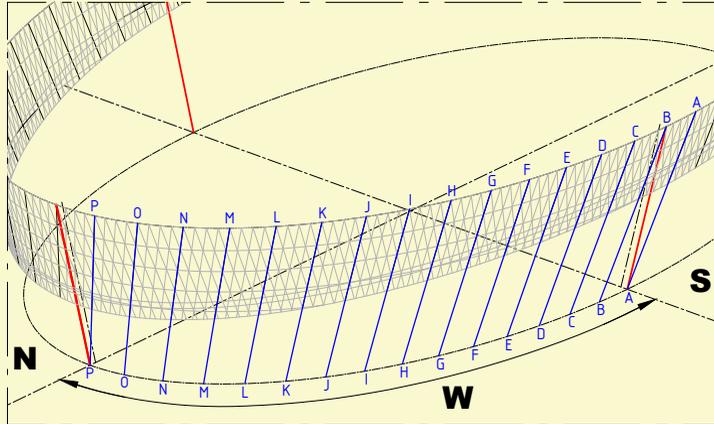


Scope of Services:
 Shop drawings & Workshop drawings for:
 Storefront
 Stone Cladding
 Windows & Doors
 Facades

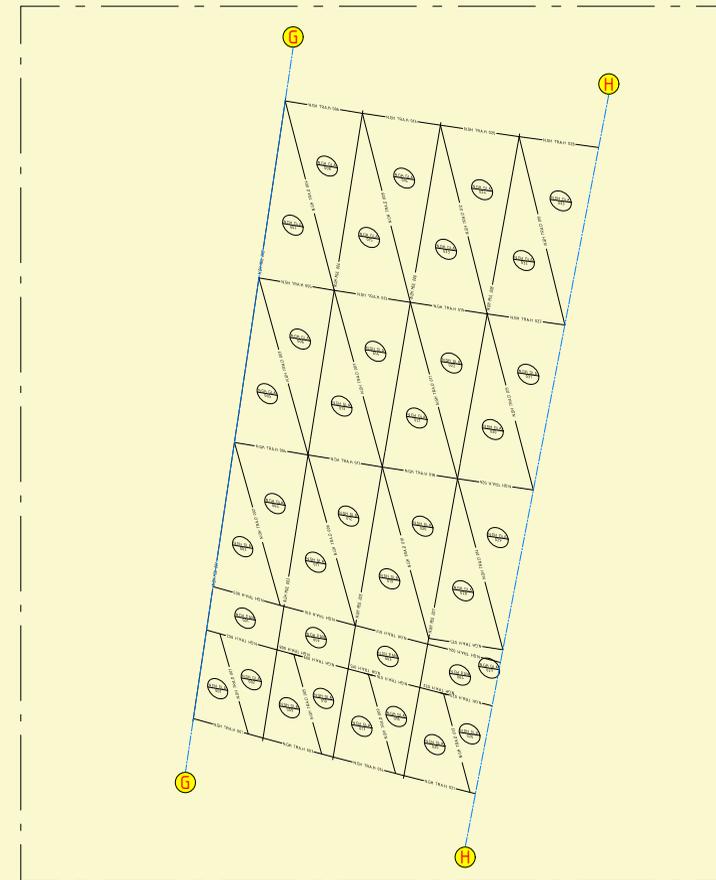
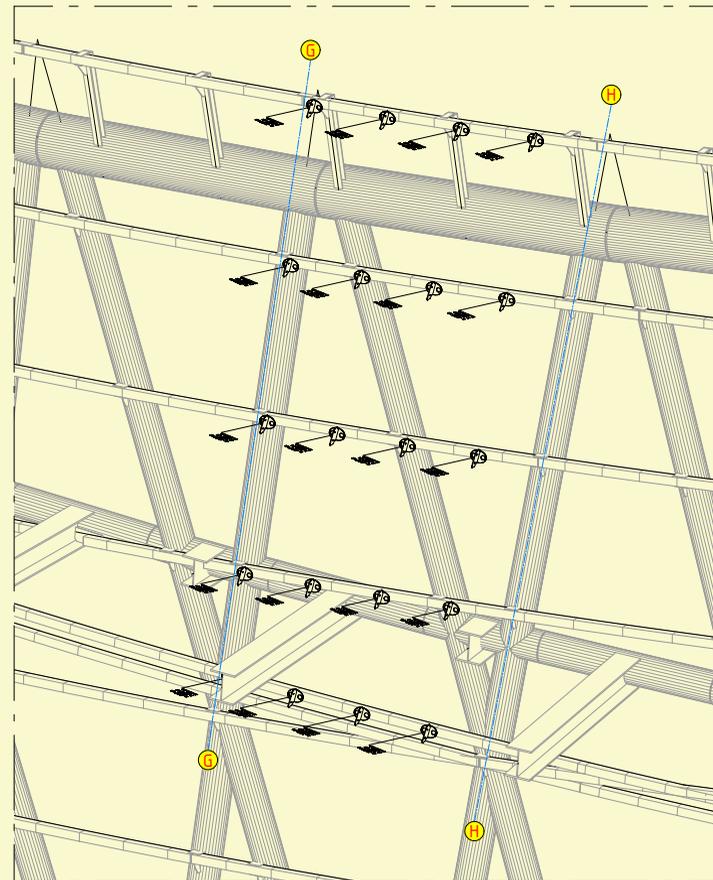
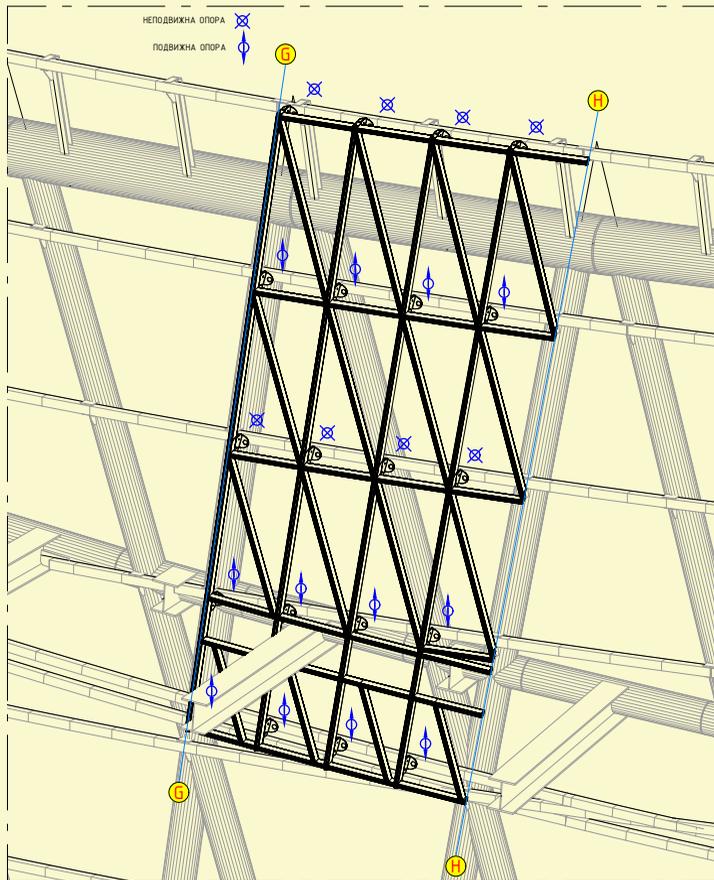


SWIMMING POOL

KADINOVI BROS



Location: Burgas, Bulgaria
Date of completion: 2017
Area: 16 576 sq. ft.
Shop Drawings: 8 000 pcs @ A2
Cut Sheets: XX pcs
Contractor: Krupal



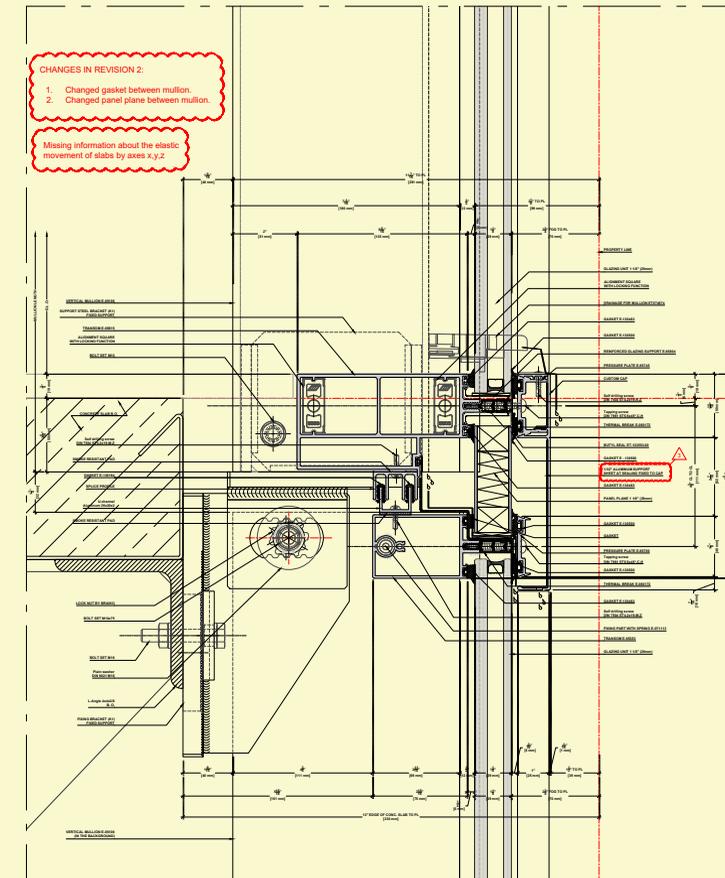
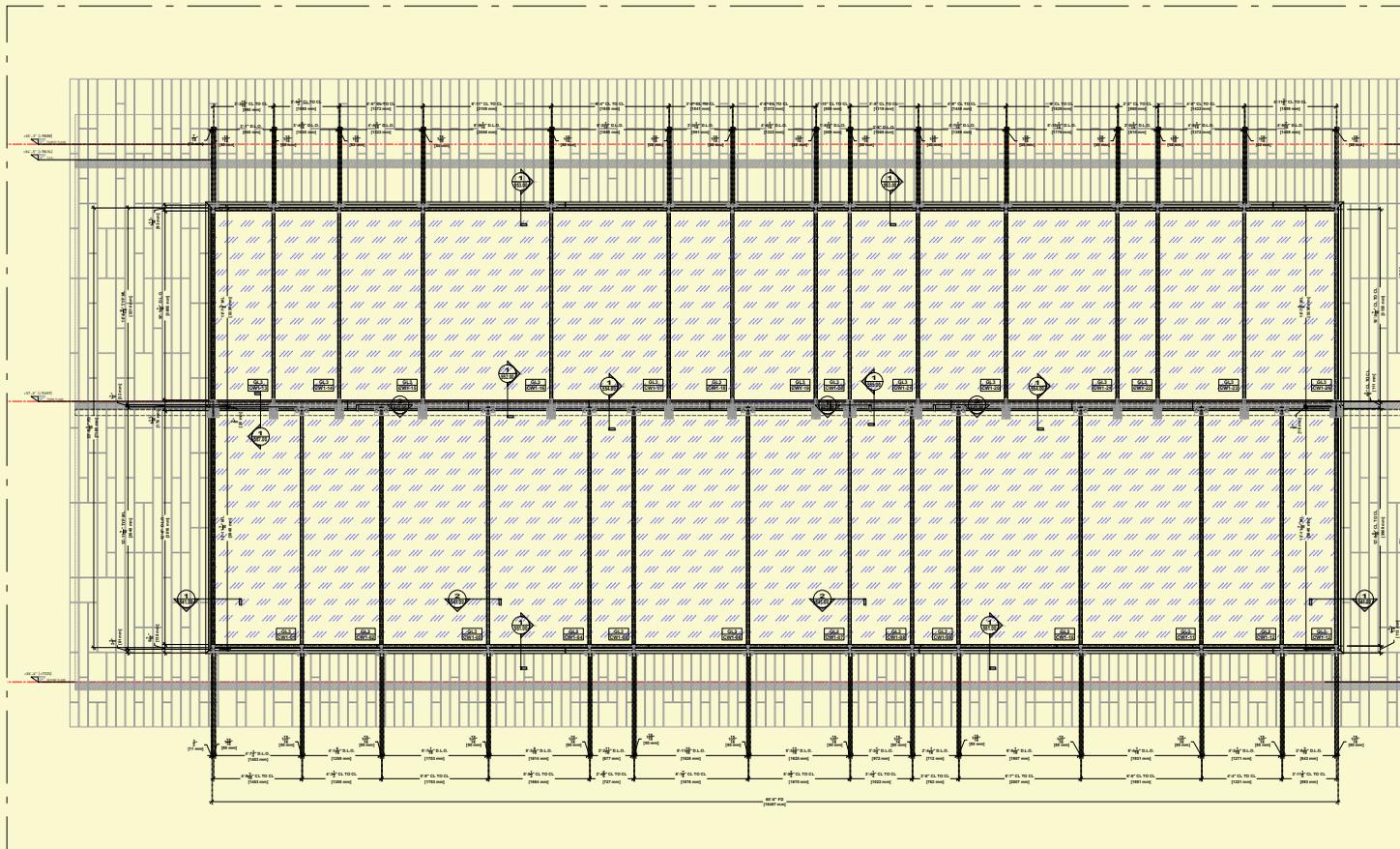
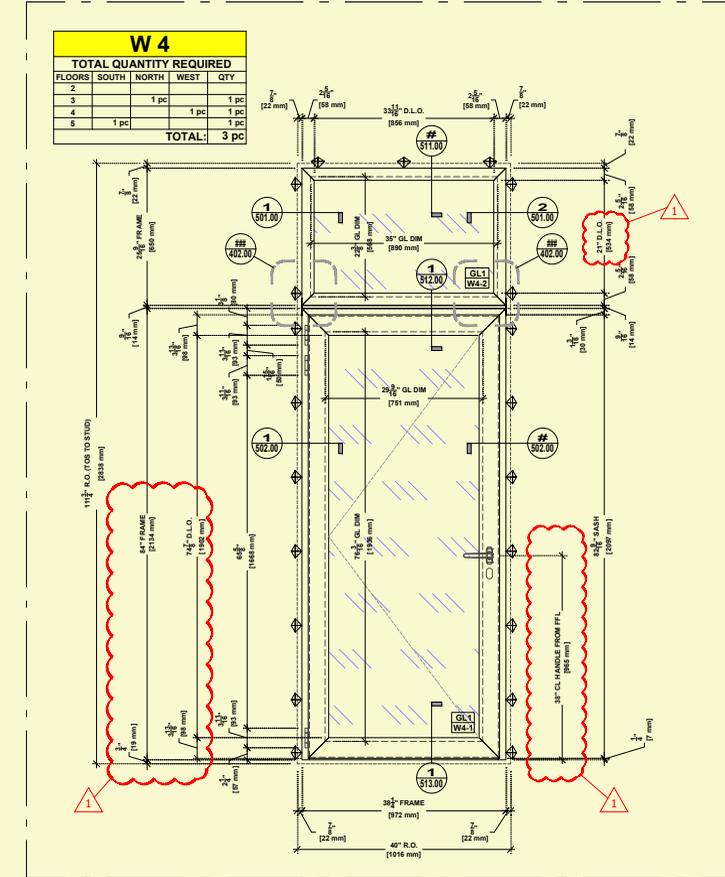
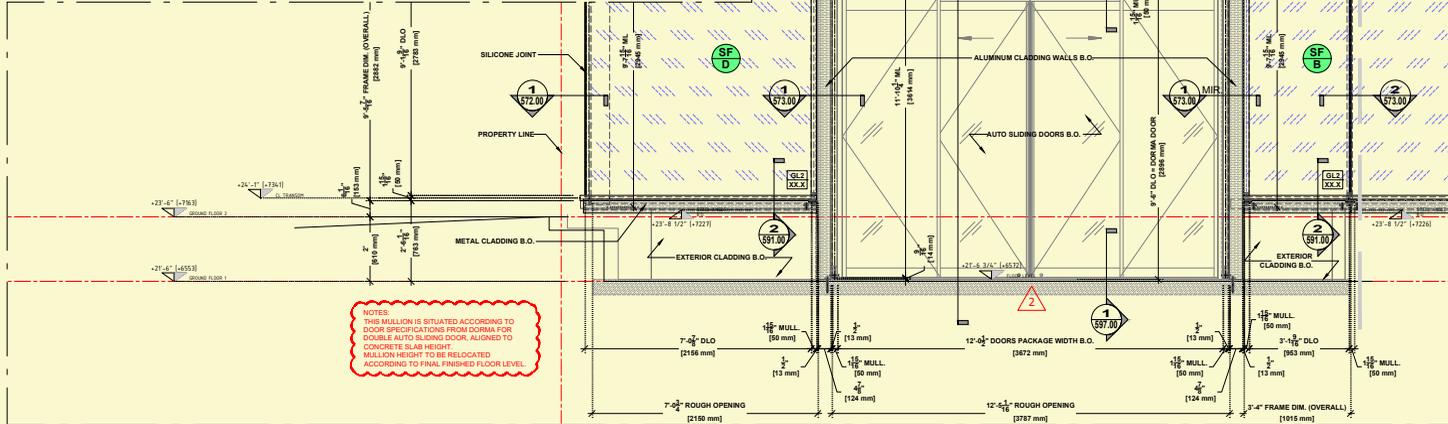
Scope of Services:
Shop drawings & Workshop drawings for:
Curtain wal

KINGS HIGHWAY

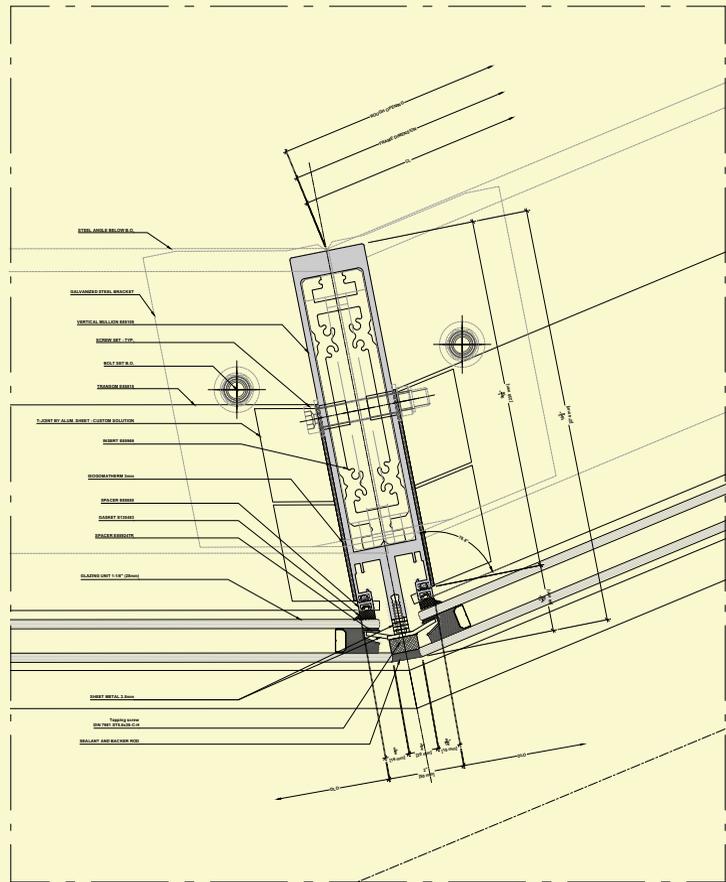
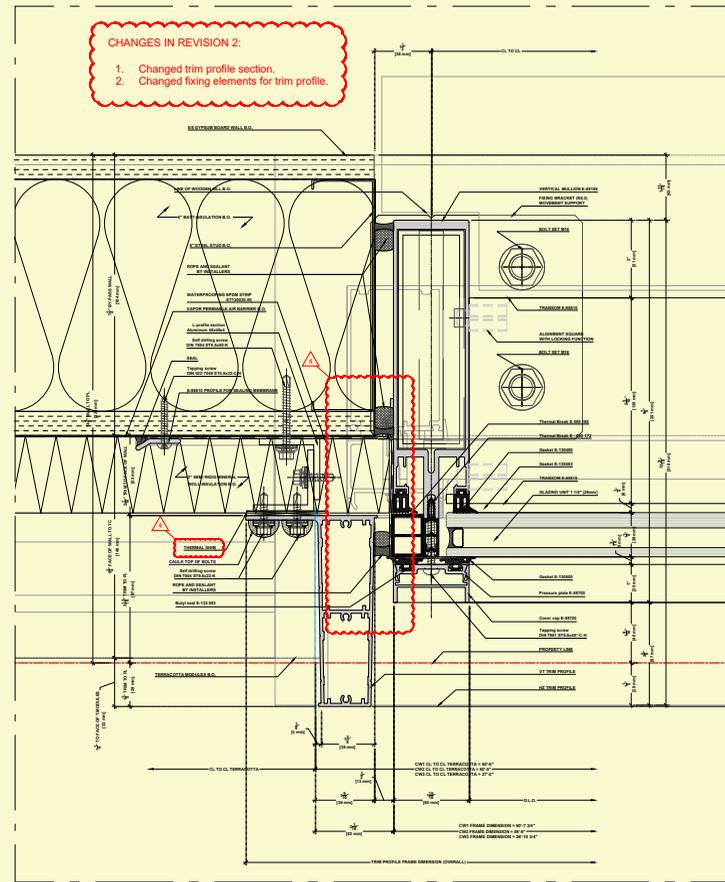
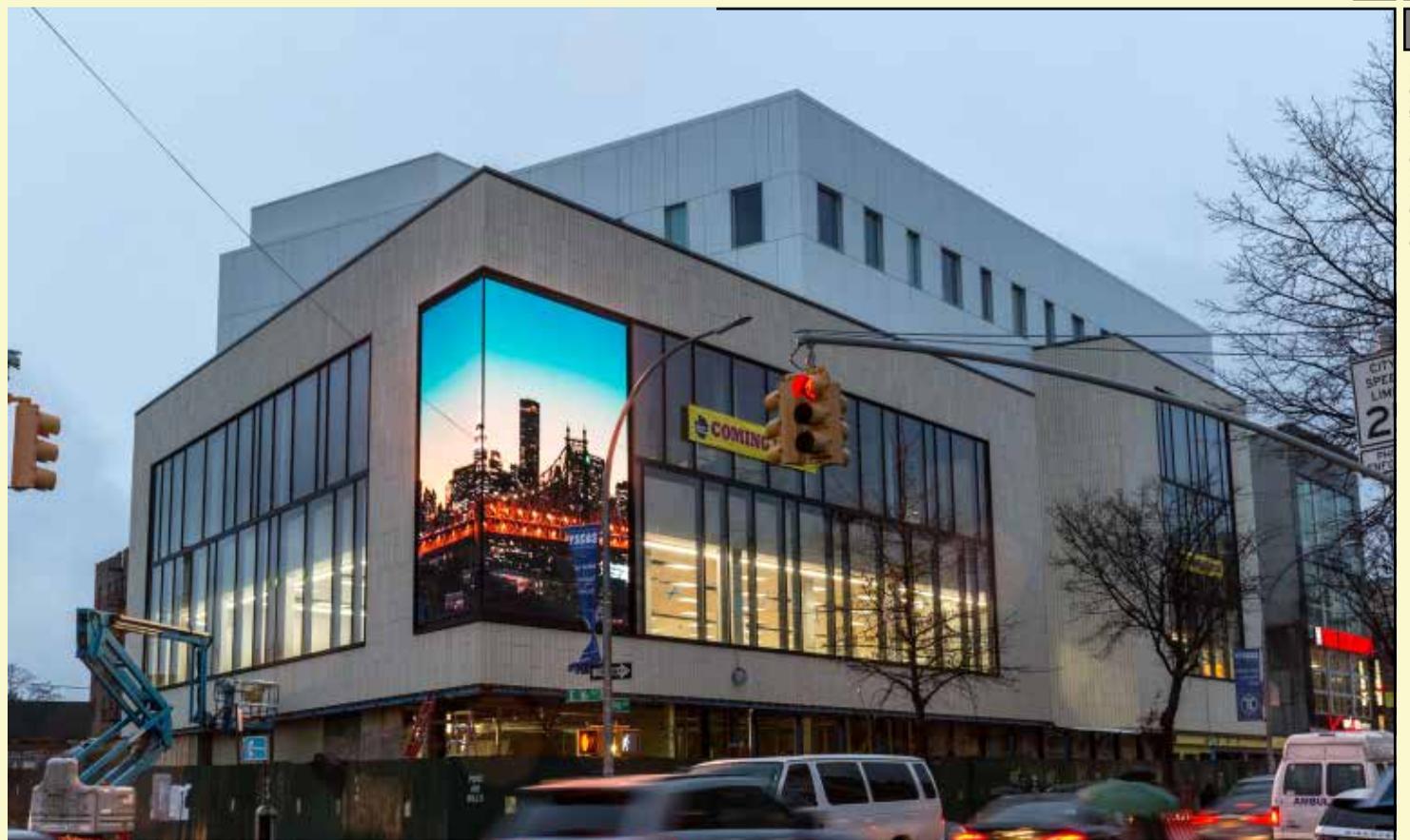
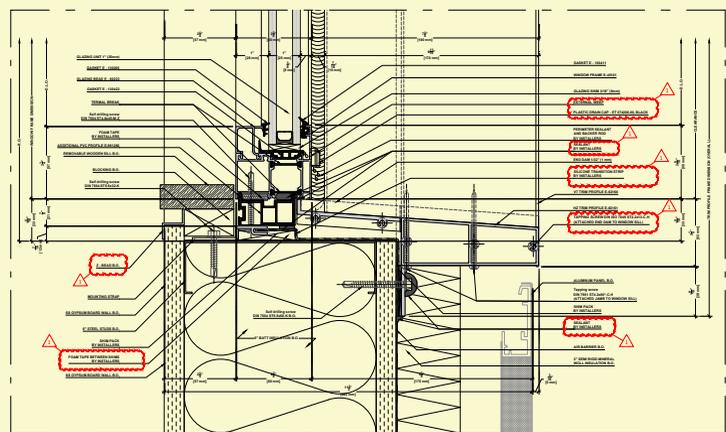
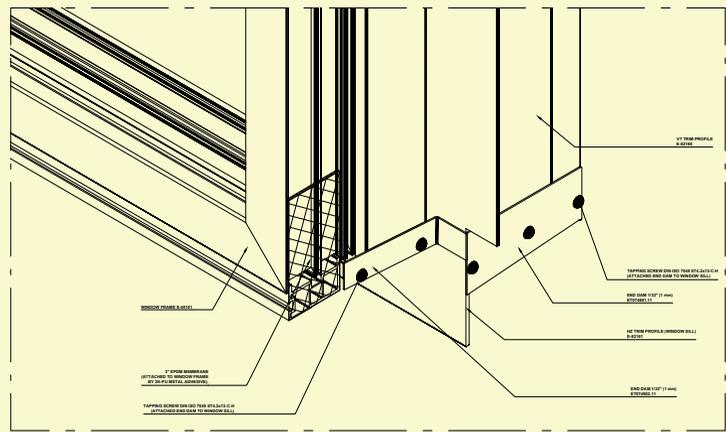
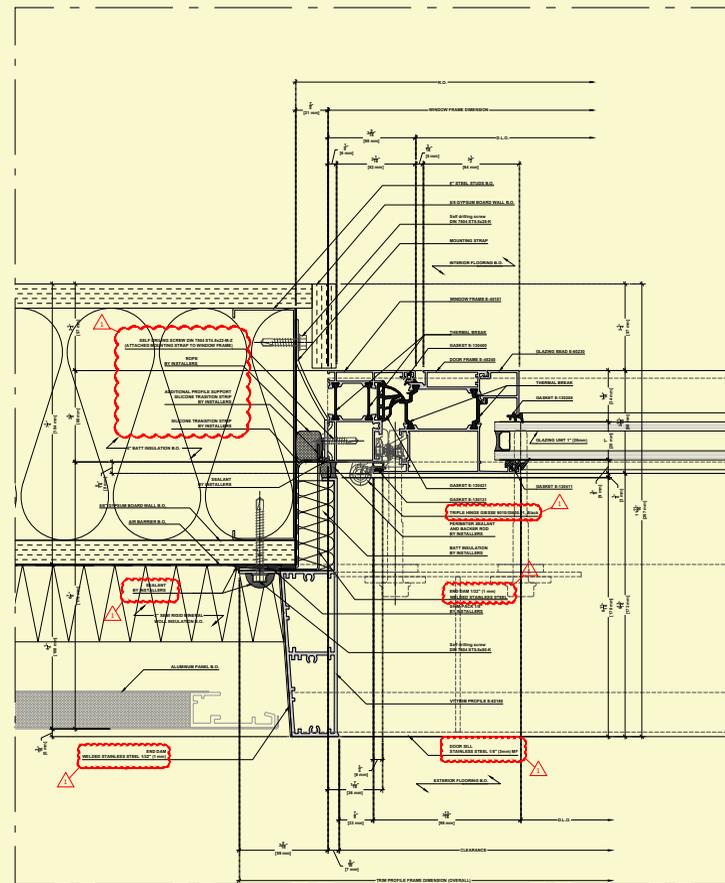
MURDOCK SOLON ARCHITECTS

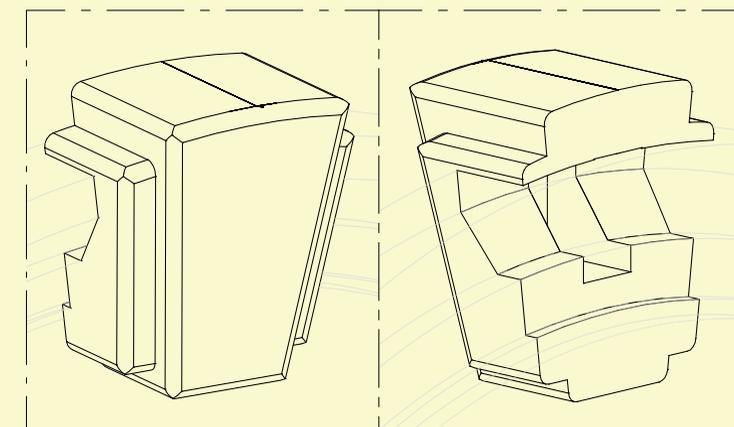
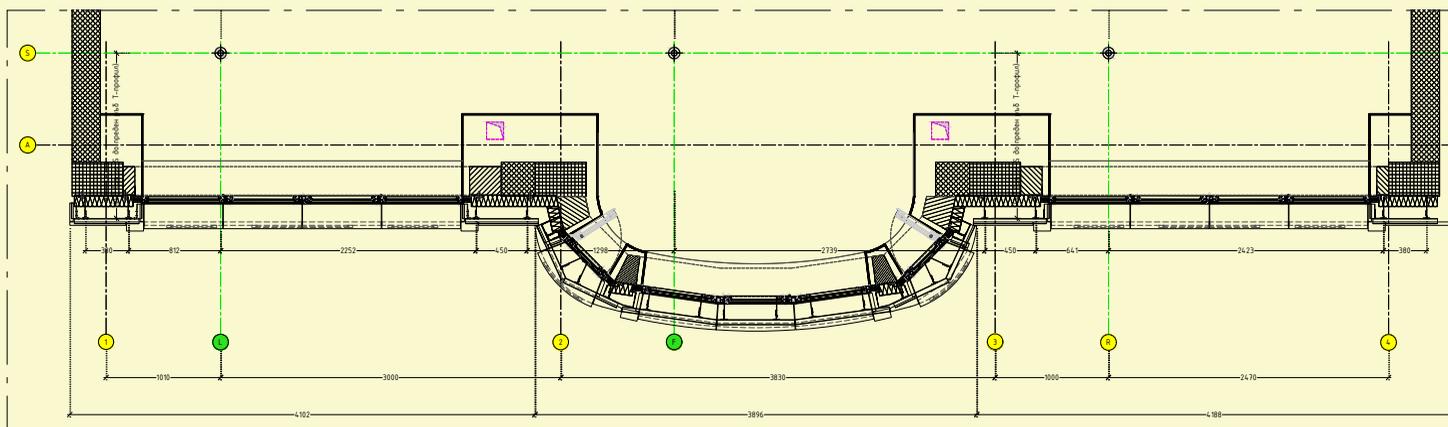
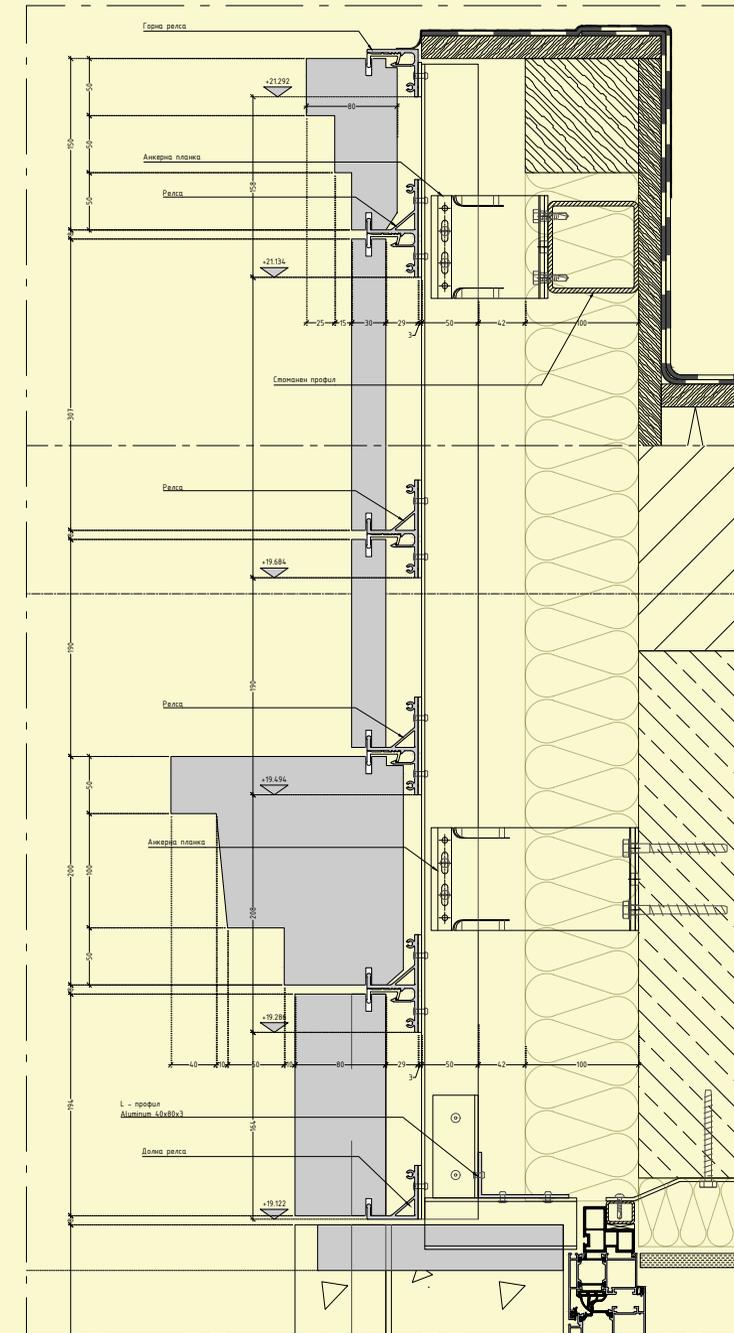


Location: Brooklyn, NY, USA
 Date of completion: 2018
 Area: XX XXX sq. ft.
 Shop Drawings: 63 pcs @ ARCH D
 Cut Sheets: XX pcs
 Contractor: ETEM



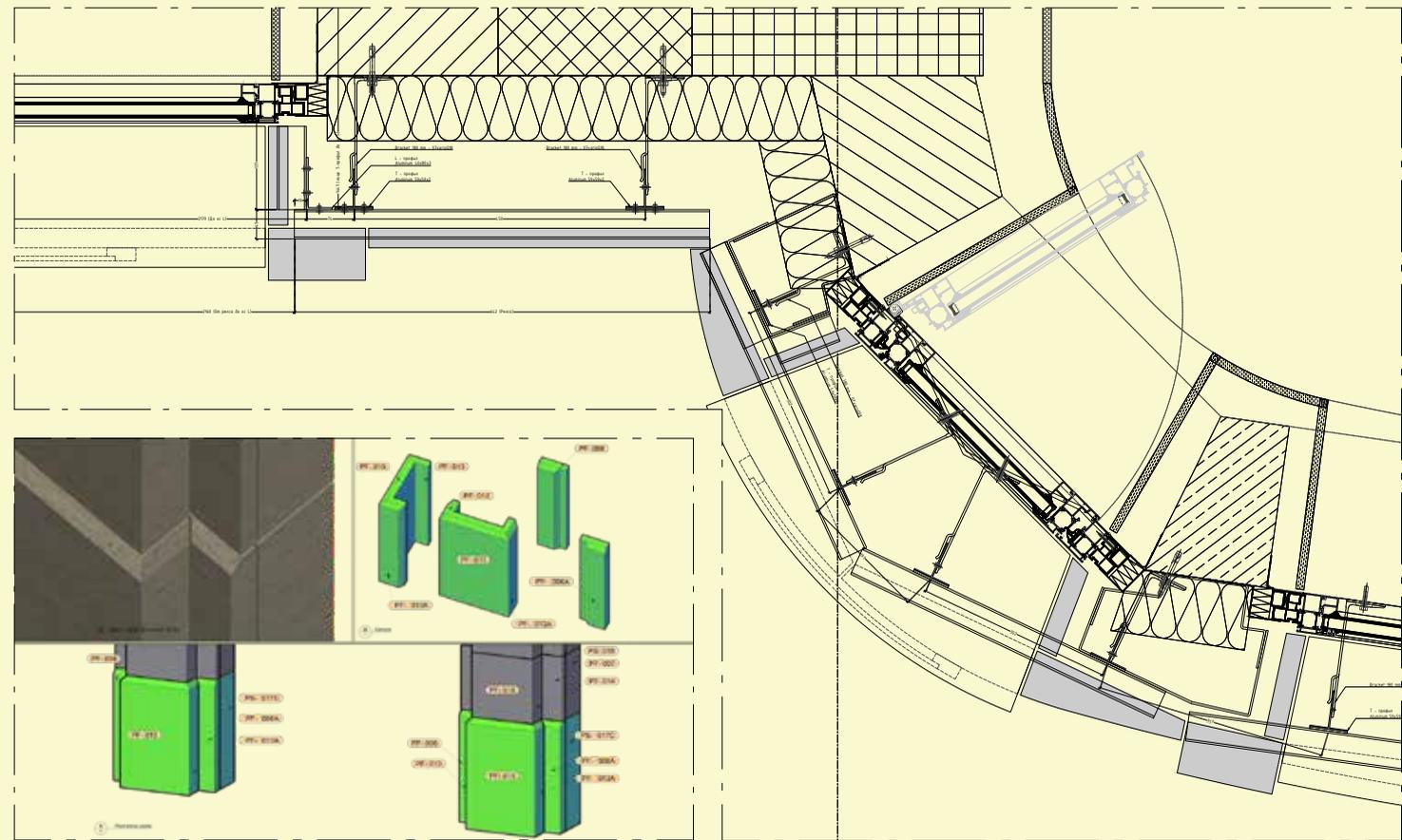
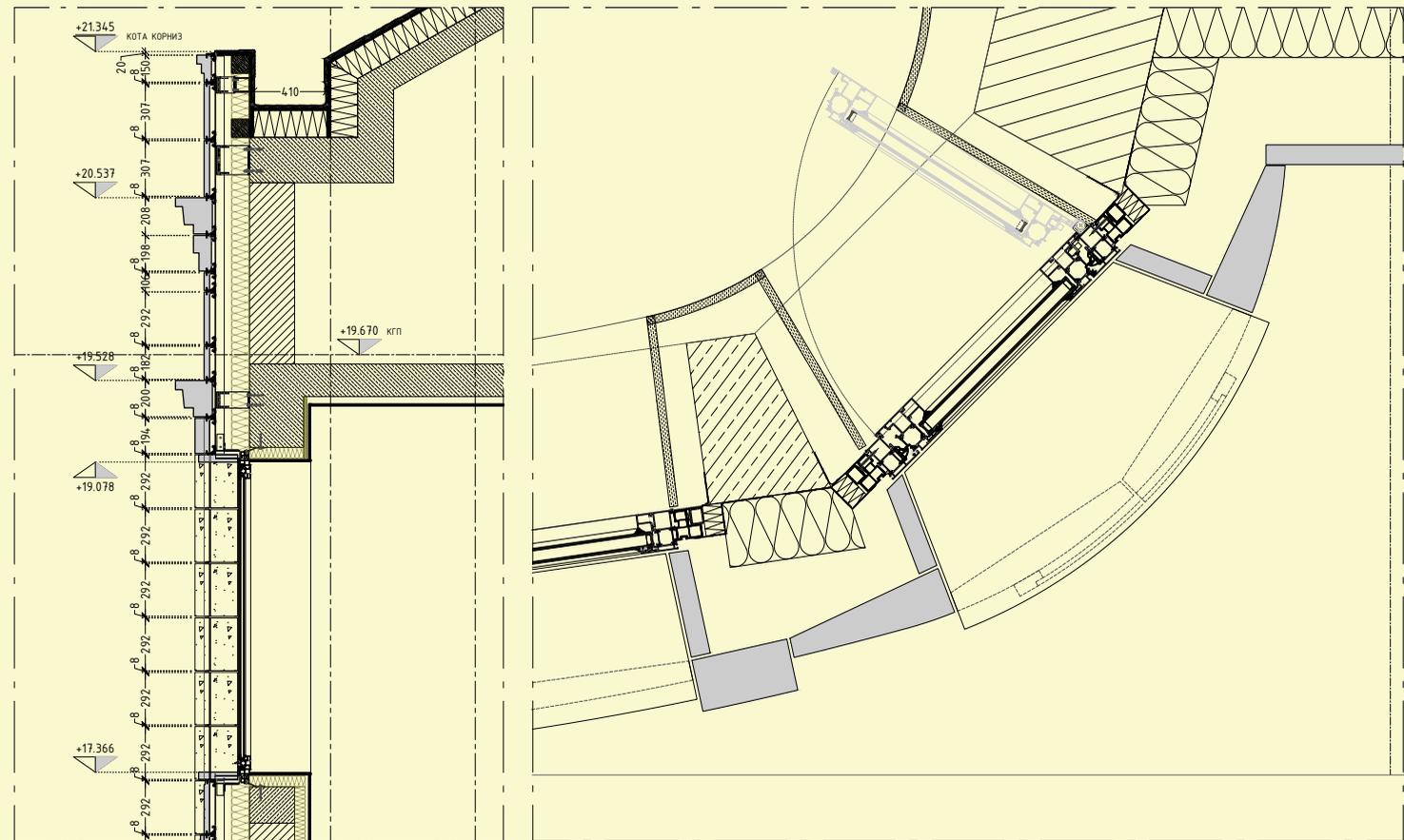
Scope of Services:
 Shop drawings for:
 Curtain wall
 Windows
 Storefronts





Location: Sofia, Bulgaria
 Date of completion: 2012
 Area: 2 799 sq. ft.
 Shop Drawings: XX pcs @ ARCH D
 Cut Sheets: XX pcs
 Contractor: BULMARMA (stone cladding),
 G.P. GROUP Ltd. (Windows & storefronts)

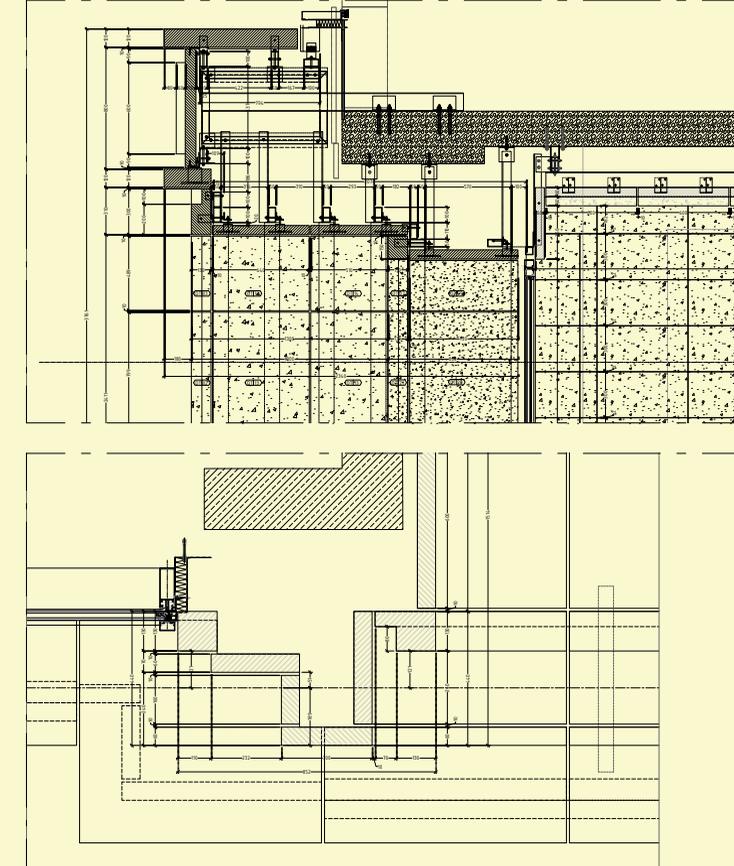
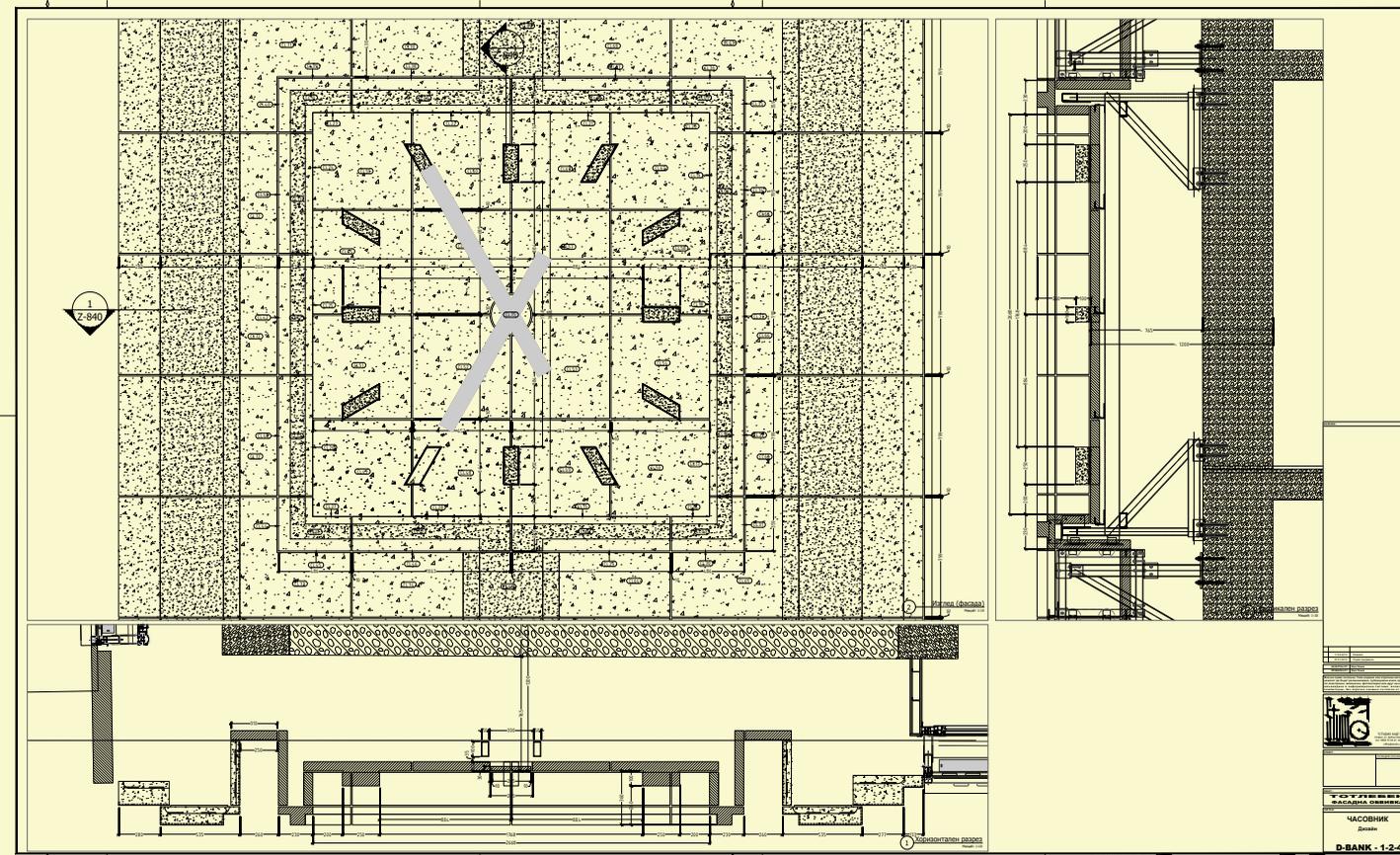
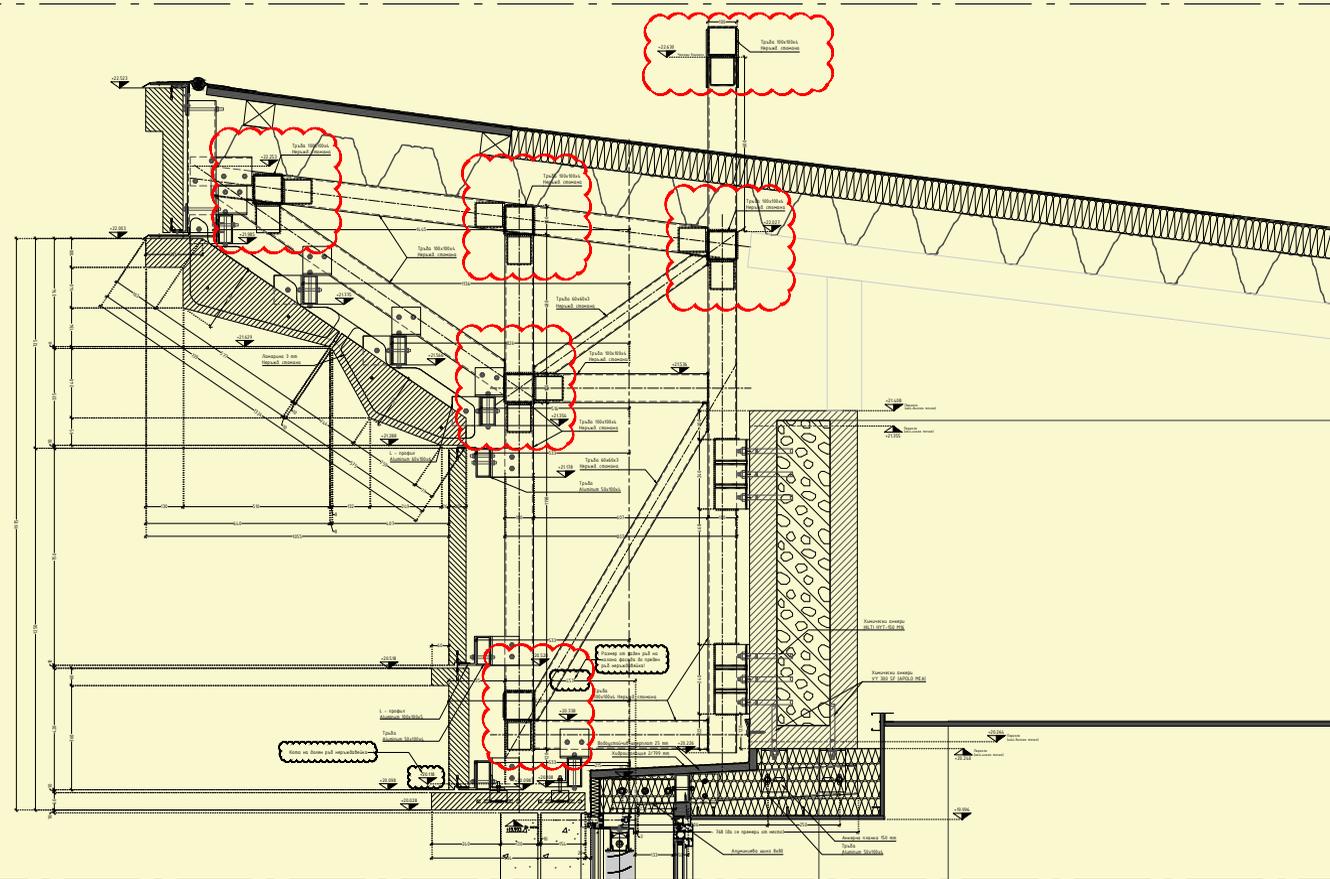
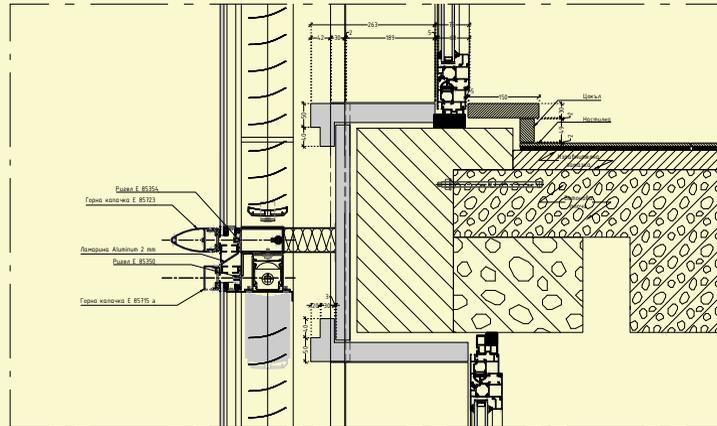
Scope of Services:
 Shop drawings & Workshop drawings for:
 Stone wall cladding
 Windows
 Storefronts



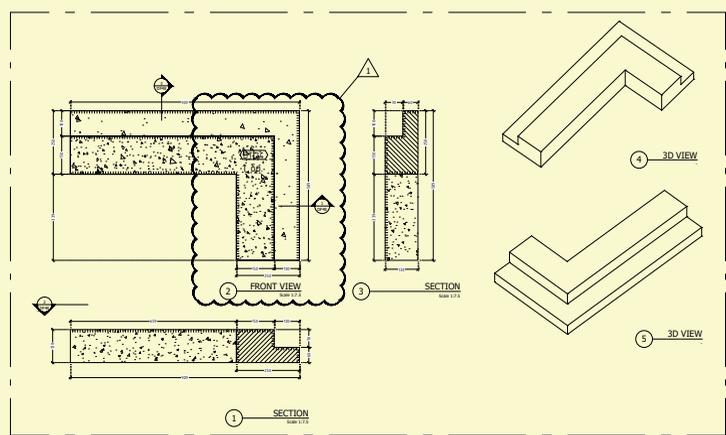
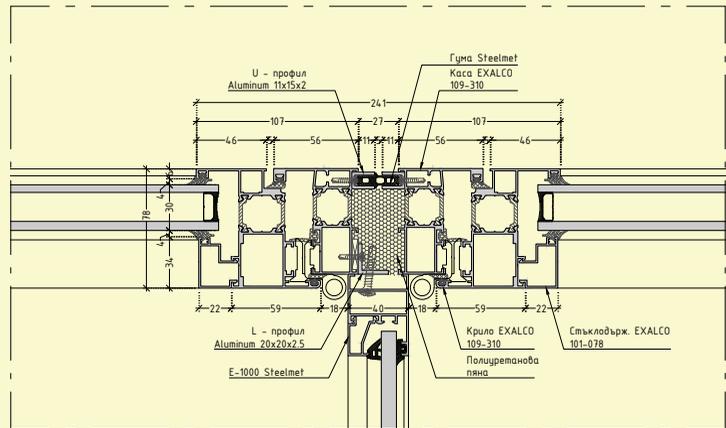
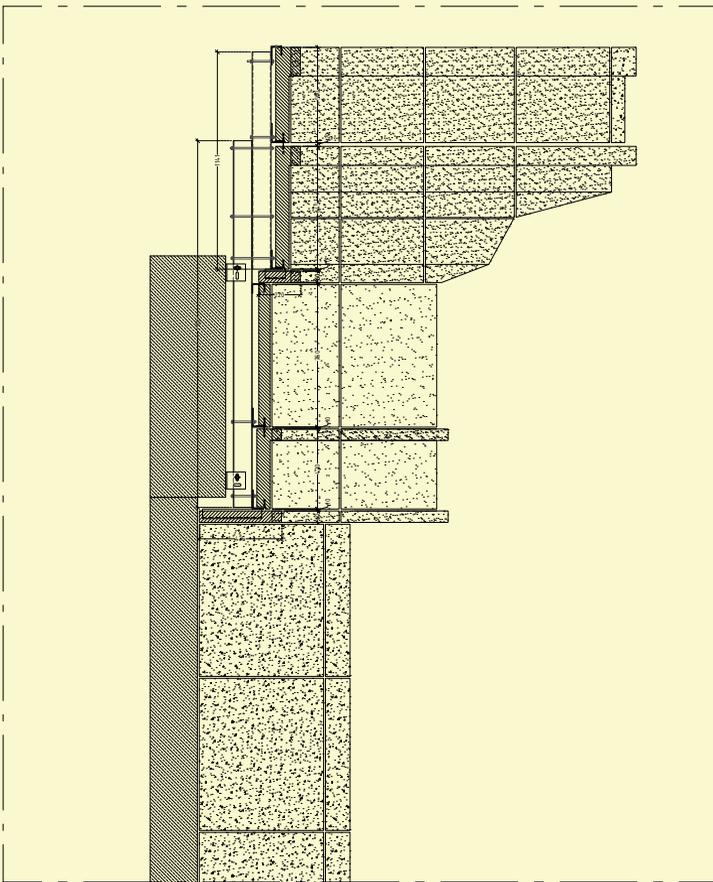
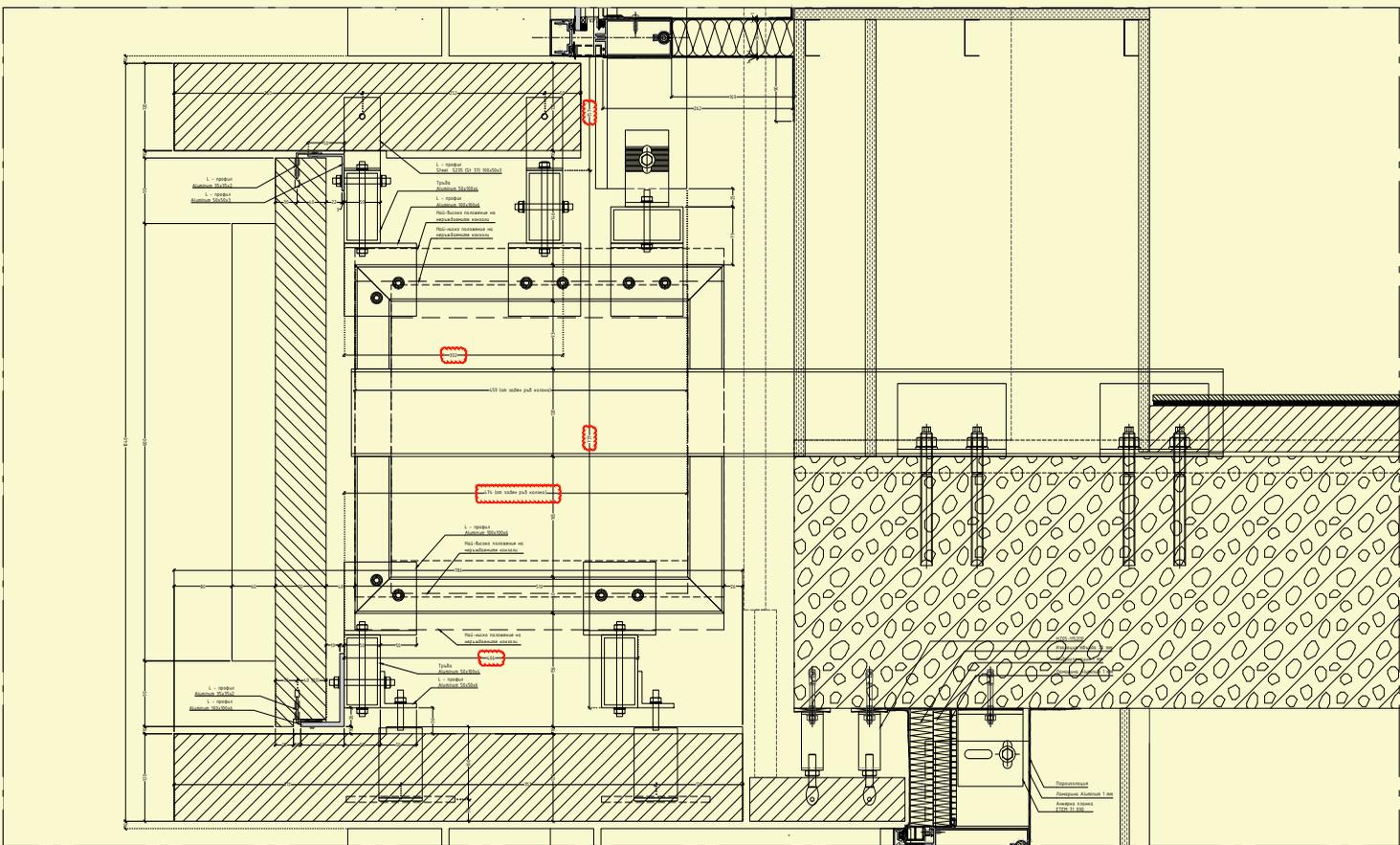
D-BANK VAMOS



Location: Sofia, Bulgaria
Date of completion: 2012
Area: 35 362 sq. ft.
Shop Drawings: XX pcs @ ARCH D
Cut Sheets: XX pcs
Contractor: PRECIZ AL (Curtain walls & Canopy)
BULMARMA (Stone cladding)

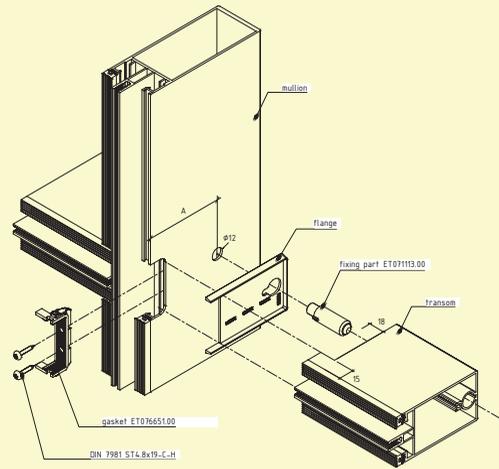


Scope of Services:
Shop drawings & Wprkshop drawings for:
Double skin Curtain wall (ETEM)
Louver system (Koester)
Stone wall cladding (limestone)



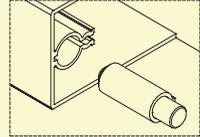
curtain wall system E85

machinings of transom 2nd level drainage with spring t-joint and flange



| transom | flange | A, mm |
|---------|-------------|-------|
| E85301 | ET076671.00 | -- |
| E85302 | ET076672.00 | -- |
| E85303 | ET076673.00 | -- |
| E85304 | ET076674.00 | 78.5 |
| E85305 | ET076675.00 | 98.5 |
| E85306 | ET076676.00 | 118.5 |
| E85307 | ET076677.00 | 148.5 |

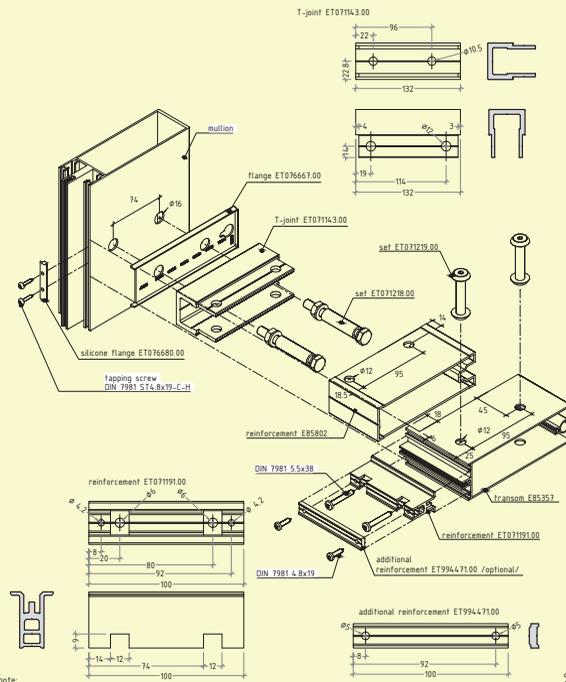
additional machining of transom for the spring t-joint



not to scale

curtain wall system E85

machinings of transom 3rd level drainage with reinforcement

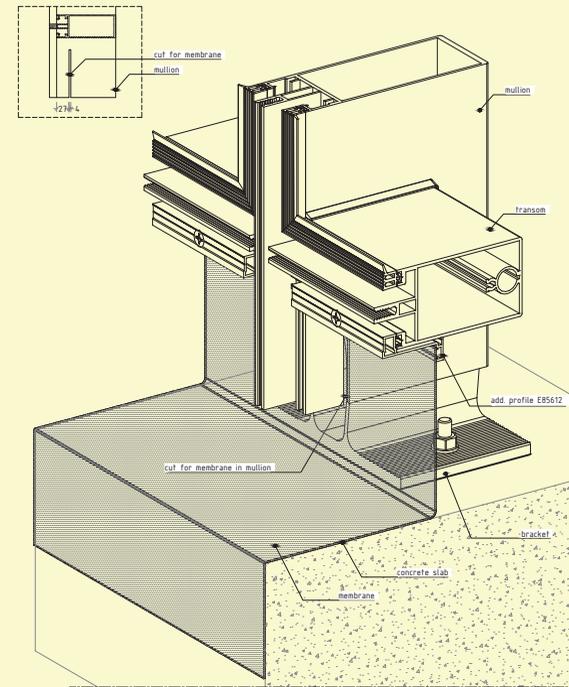


note: Additional reinforcement ET99447100 has to be used in case of thicker glazings.

not to scale

curtain wall system E85

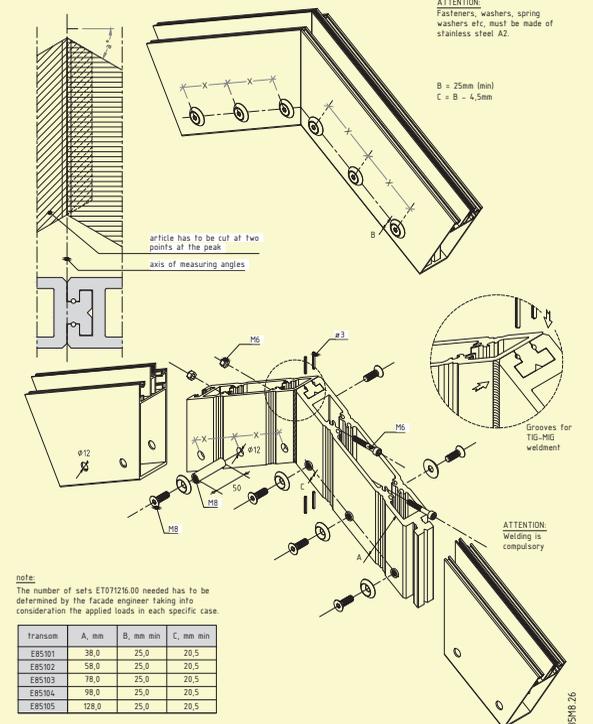
bottom finishing



not to scale

curtain wall system E85

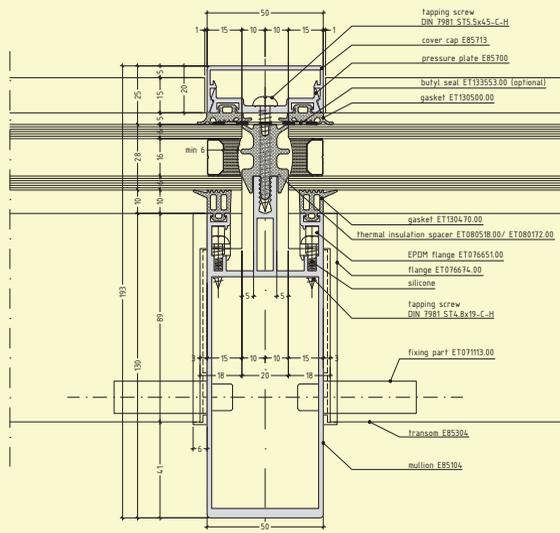
roof connection of two mullions using E85960



not to scale

curtain wall system E85

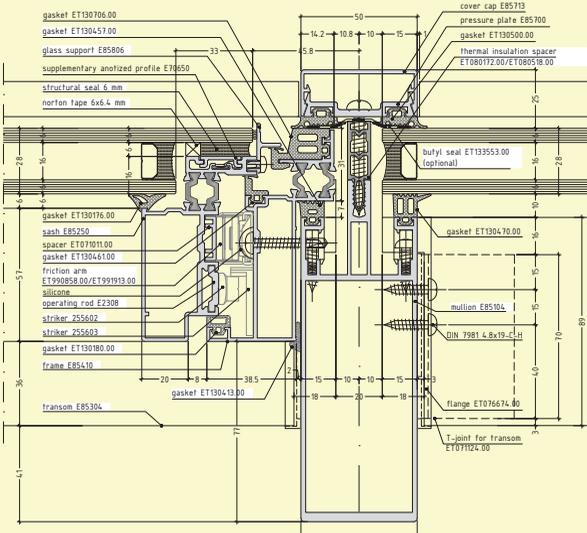
mullion with 2nd level transom



scale 3/4

curtain wall system E85

projected thermo-break window

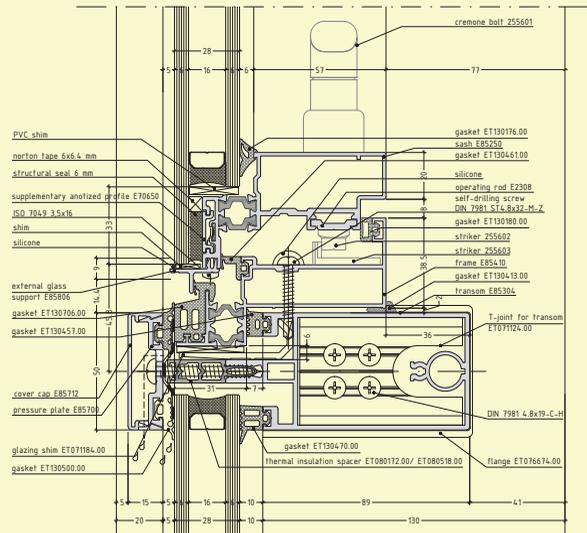


note: sash E85250 for projected window with insert E70650 can be replaced with sash E85210

scale 3/4

curtain wall system E85

projected thermo-break window with 2nd level transom



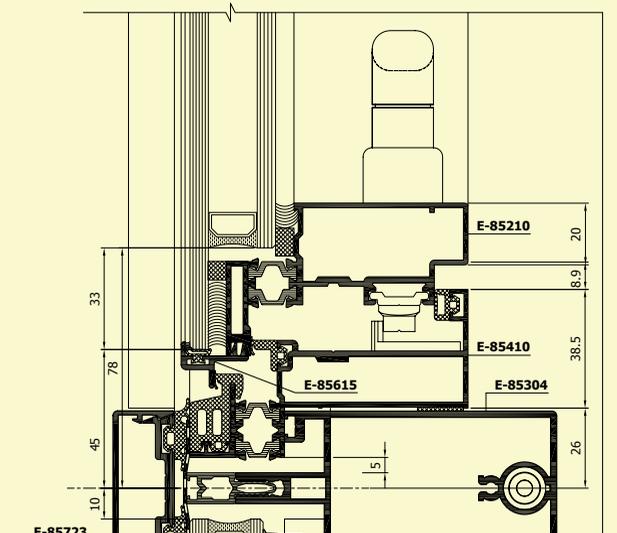
scale 3/4

CP 85 - 14 E-85

РАЗРЕЗЫ / SECTIONS

ETEM logo

СТРУКТУРНА КЛАПА С ПРЕКЪСНАТ ТЕРМОМОСТ
КАСА - E-85410, КРИЛО - E-85210



E-85723

E-85700

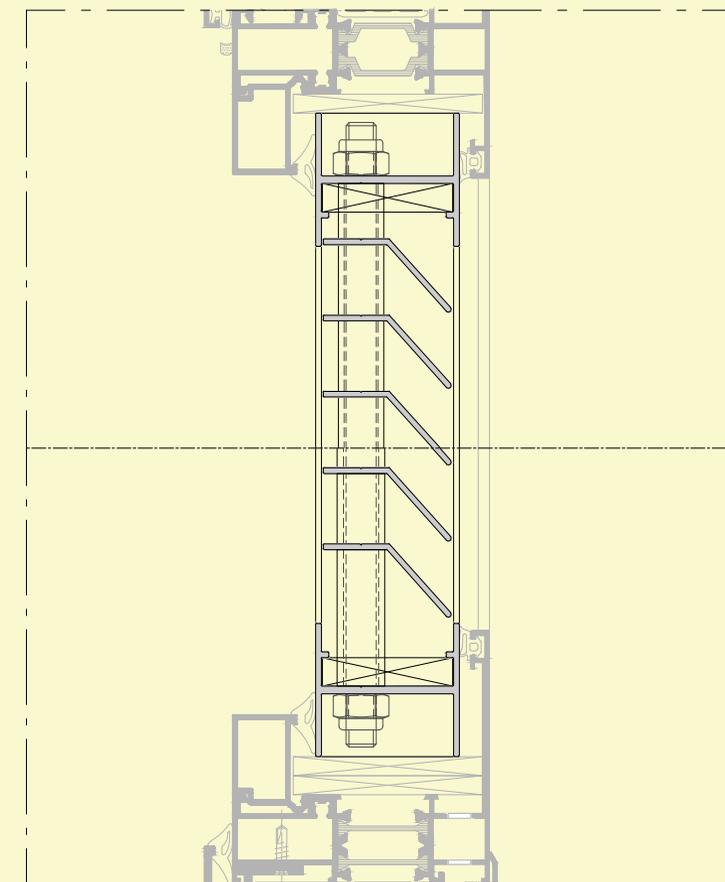
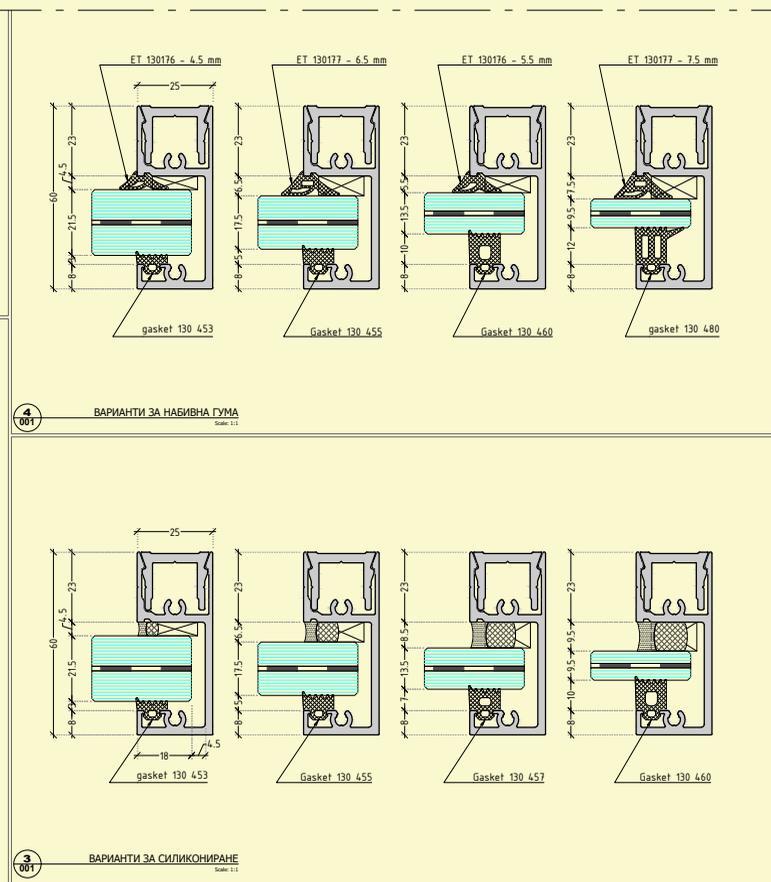
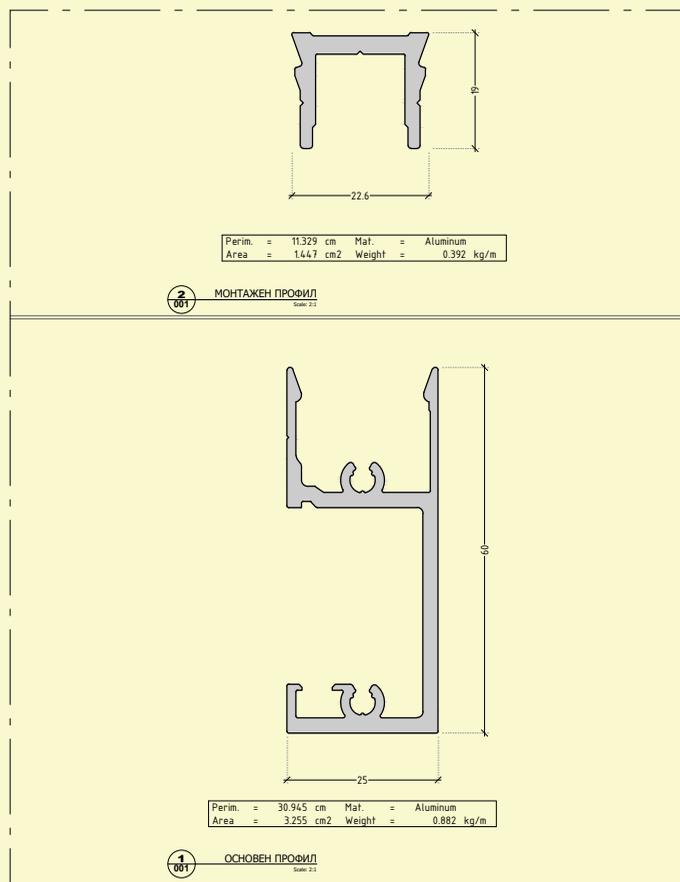
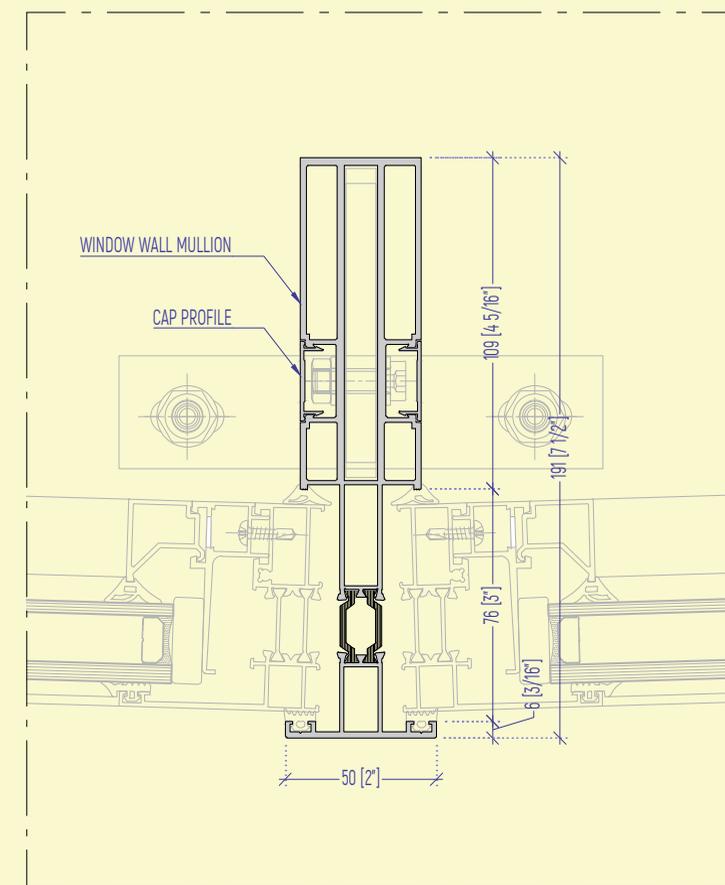
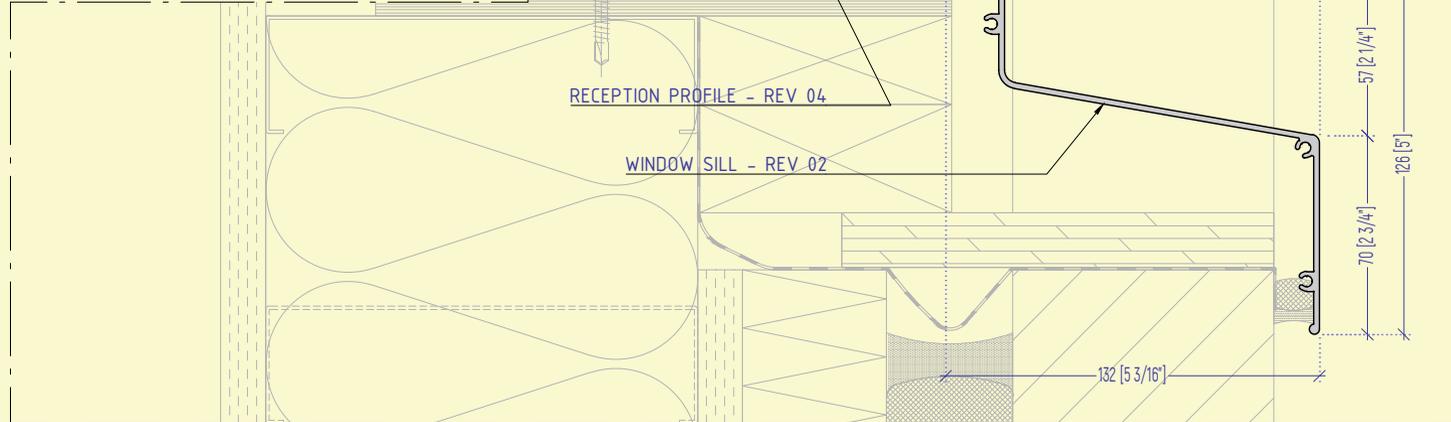
E-85104

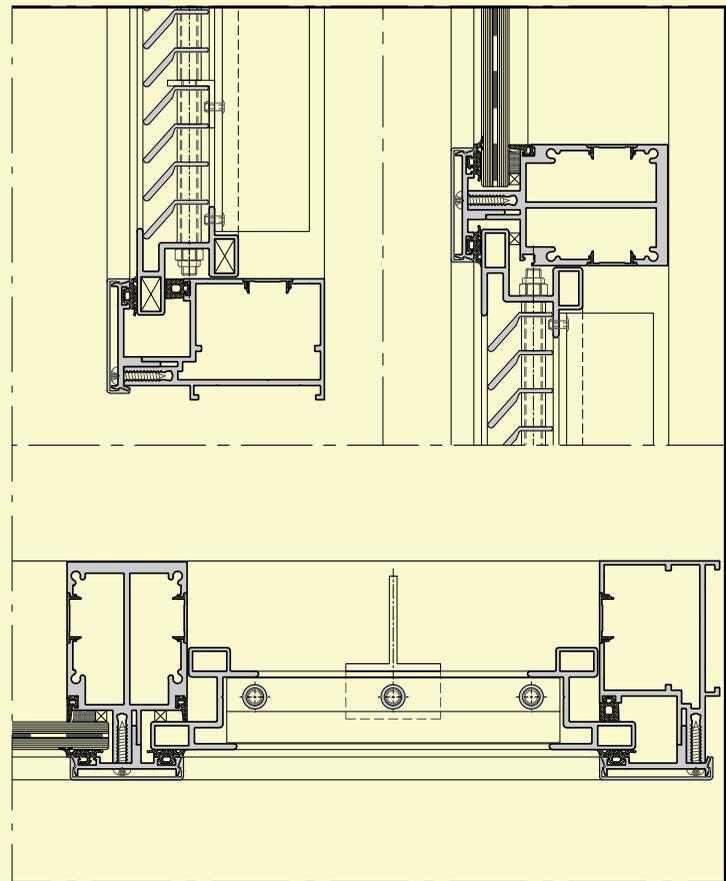
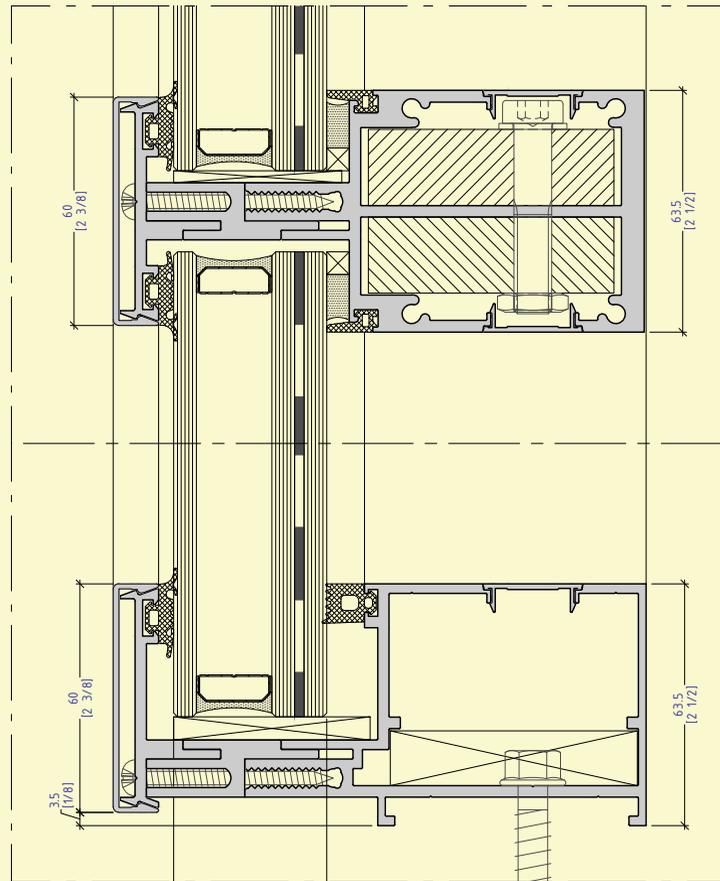
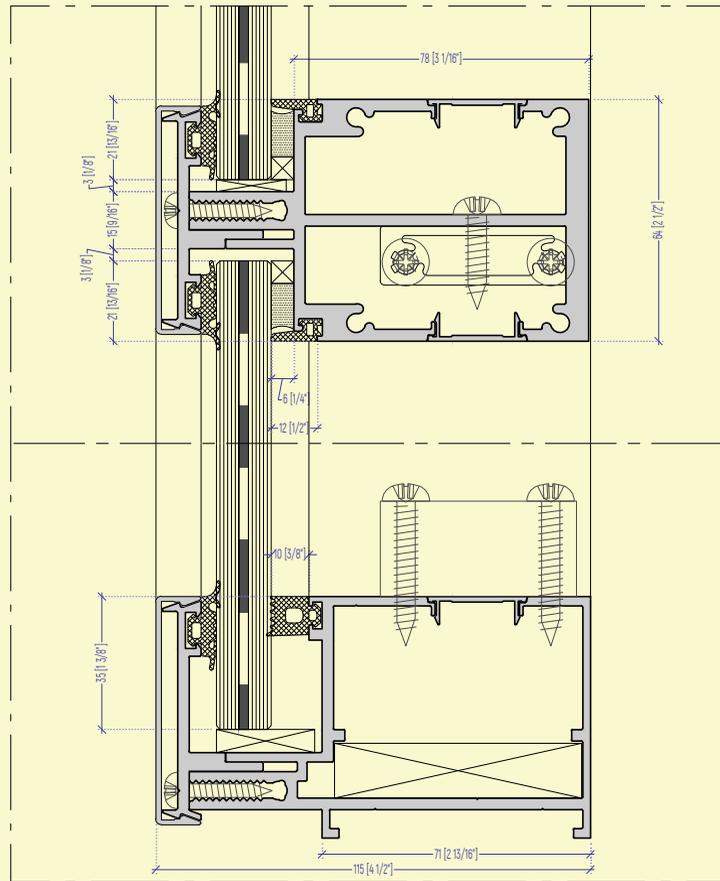
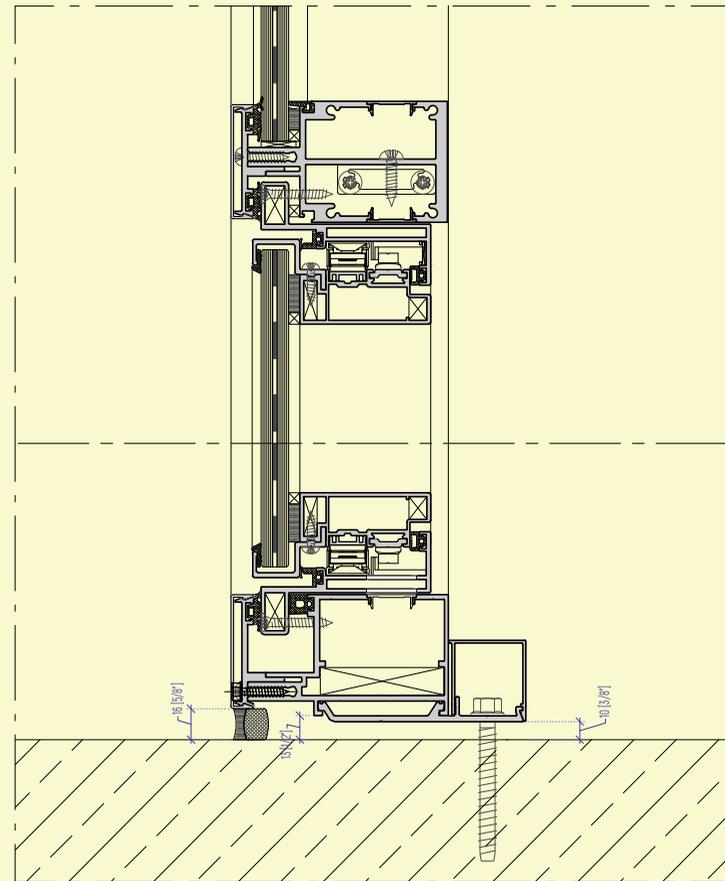
CATALOG BEFORE OUR DESIGN

DISE DESIGN ARCHITECT

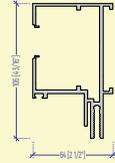


Date of completion: 2009
 Shop Drawings: 242 pcs @ A4 & 79 pcs @ A3
 Cut Sheets: XX pcs
 Contractor: ETEM

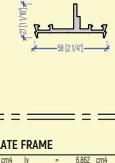




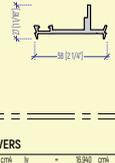
1. FRAME
 Ix = 88.28 cm⁴ Iy = 37.368 cm⁴
 Wx = 18.307 cm³ Wy = 9.994 cm³
 Area = 8.883 cm² Weight = 2.433 kg/m



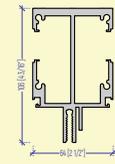
4. PRESSURE PLATE MULLION
 Ix = 0.753 cm⁴ Iy = 5.989 cm⁴
 Wx = 0.399 cm³ Wy = 1.992 cm³
 Area = 2.452 cm² Weight = 0.733 kg/m



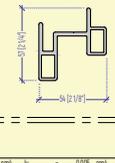
5. PRESSURE PLATE FRAME
 Ix = 0.753 cm⁴ Iy = 6.882 cm⁴
 Wx = 0.398 cm³ Wy = 2.110 cm³
 Area = 2.450 cm² Weight = 0.737 kg/m



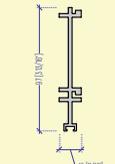
2. MULLION
 Ix = 596.502 cm⁴ Iy = 50.928 cm⁴
 Wx = 23.776 cm³ Wy = 15.996 cm³
 Area = 13.788 cm² Weight = 3.727 kg/m



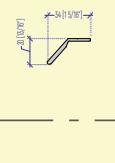
6. FRAME LOUVERS
 Ix = 9.767 cm⁴ Iy = 16.942 cm⁴
 Wx = 2.802 cm³ Wy = 5.801 cm³
 Area = 5.381 cm² Weight = 1.459 kg/m



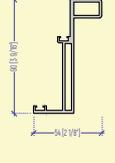
3. SPLIT PROFILE
 Ix = 40.433 cm⁴ Iy = 0.560 cm⁴
 Wx = 8.206 cm³ Wy = 0.893 cm³
 Area = 4.420 cm² Weight = 1.252 kg/m



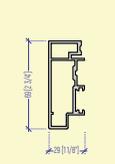
7. LOUVERS
 Ix = 0.430 cm⁴ Iy = 0.926 cm⁴
 Wx = 0.248 cm³ Wy = 0.448 cm³
 Area = 1.098 cm² Weight = 0.294 kg/m



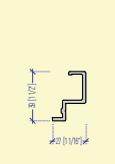
8. FRAME VENT
 Ix = 52.256 cm⁴ Iy = 6.408 cm⁴
 Wx = 11.881 cm³ Wy = 2.198 cm³
 Area = 5.448 cm² Weight = 1.475 kg/m



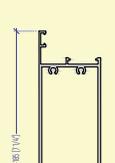
9. SASH VENT
 Ix = 22.238 cm⁴ Iy = 4.104 cm⁴
 Wx = 5.651 cm³ Wy = 2.431 cm³
 Area = 4.488 cm² Weight = 1.236 kg/m



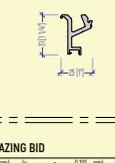
10. ADDITIONAL PROFILE VENT
 Ix = 2.742 cm⁴ Iy = 1.102 cm⁴
 Wx = 1.307 cm³ Wy = 0.826 cm³
 Area = 1.837 cm² Weight = 0.498 kg/m



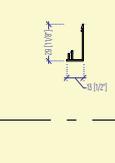
11. KICK PLATE
 Ix = 355.038 cm⁴ Iy = 44.156 cm⁴
 Wx = 38.250 cm³ Wy = 17.681 cm³
 Area = 21.960 cm² Weight = 2.882 kg/m



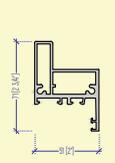
12. GLAZING BID
 Ix = 1.502 cm⁴ Iy = 0.719 cm⁴
 Wx = 0.802 cm³ Wy = 0.655 cm³
 Area = 2.042 cm² Weight = 0.553 kg/m



13. CAP FOR GLAZING BID
 Ix = 0.862 cm⁴ Iy = 0.107 cm⁴
 Wx = 0.254 cm³ Wy = 0.170 cm³
 Area = 0.444 cm² Weight = 0.124 kg/m



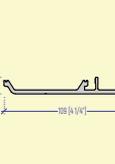
14. FRAME DOOR
 Ix = 31.443 cm⁴ Iy = 20.749 cm⁴
 Wx = 4.273 cm³ Wy = 7.882 cm³
 Area = 9.223 cm² Weight = 1.888 kg/m



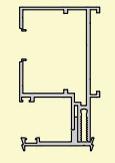
15. BEAUTY CAP FOR STRAP ANCHOR
 Ix = 3.419 cm⁴ Iy = 3.124 cm⁴
 Wx = 1.222 cm³ Wy = 2.248 cm³
 Area = 1.832 cm² Weight = 0.491 kg/m



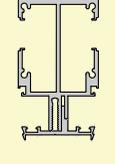
16. STRAP ANCHOR
 Ix = 0.277 cm⁴ Iy = 39.321 cm⁴
 Wx = 0.271 cm³ Wy = 7.762 cm³
 Area = 4.452 cm² Weight = 1.098 kg/m



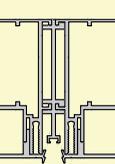
COMBINATION PROFILES
 Ix = 51.733 cm⁴ Iy = 44.465 cm⁴
 I_p = 0.950
 Wx = 23.911 cm³ Wy = 12.558 cm³
 Area = 11.651 cm² Weight = 3.143 kg/m



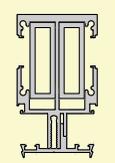
COMBINATION PROFILES
 Ix = 20.250 cm⁴ Iy = 58.935 cm⁴
 I_p = 0.950
 Wx = 39.755 cm³ Wy = 17.887 cm³
 Area = 16.421 cm² Weight = 4.453 kg/m



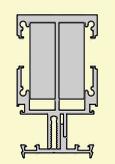
COMBINATION PROFILES
 Ix = 332.247 cm⁴ Iy = 257.450 cm⁴
 I_p = 0.950
 Wx = 16.848 cm³ Wy = 47.112 cm³
 Area = 21.627 cm² Weight = 7.541 kg/m



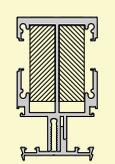
COMBINATION PROFILES
 Ix = 206.449 cm⁴ Iy = 77.932 cm⁴
 I_p = 0.950
 Wx = 45.521 cm³ Wy = 24.467 cm³
 Area = 27.941 cm² Weight = 7.572 kg/m



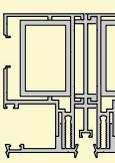
COMBINATION PROFILES
 Ix = 303.949 cm⁴ Iy = 95.710 cm⁴
 I_p = 0.950
 Wx = 48.395 cm³ Wy = 17.887 cm³
 Area = 44.421 cm² Weight = 11.954 kg/m



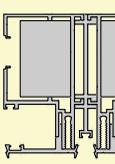
COMBINATION PROFILES
 Ix = 72.000 cm⁴ Iy = 38.155 cm⁴
 I_p = 0.950
 Wx = 24.300 cm³ Wy = 17.746 cm³
 Mat. = Steel S235 (En 37)
 Area = 24.000 cm² Weight = 6.889 kg/m



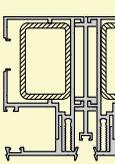
COMBINATION PROFILES
 Ix = 487.735 cm⁴ Iy = 446.247 cm⁴
 I_p = 0.950
 Wx = 60.235 cm³ Wy = 68.836 cm³
 Area = 42.547 cm² Weight = 11.530 kg/m



COMBINATION PROFILES
 Ix = 676.749 cm⁴ Iy = 798.594 cm⁴
 I_p = 0.950
 Wx = 61.235 cm³ Wy = 122.783 cm³
 Area = 73.827 cm² Weight = 20.548 kg/m



COMBINATION PROFILES
 Ix = 64.373 cm⁴ Iy = 171.659 cm⁴
 I_p = 0.950
 Wx = 21.438 cm³ Wy = 32.953 cm³
 Mat. = Steel S235 (En 37)
 Area = 14.171 cm² Weight = 11.535 kg/m

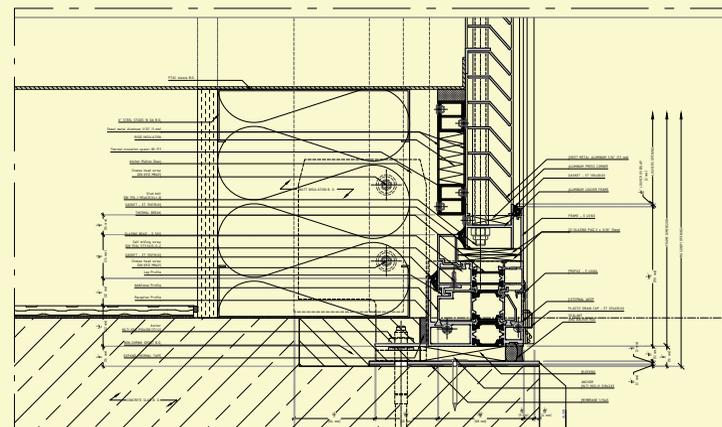
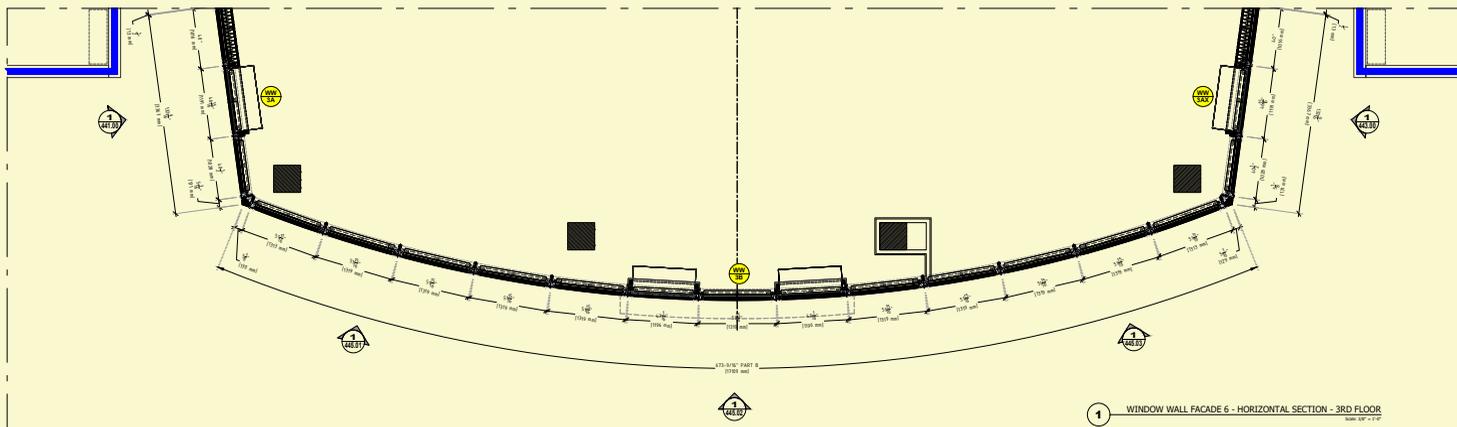
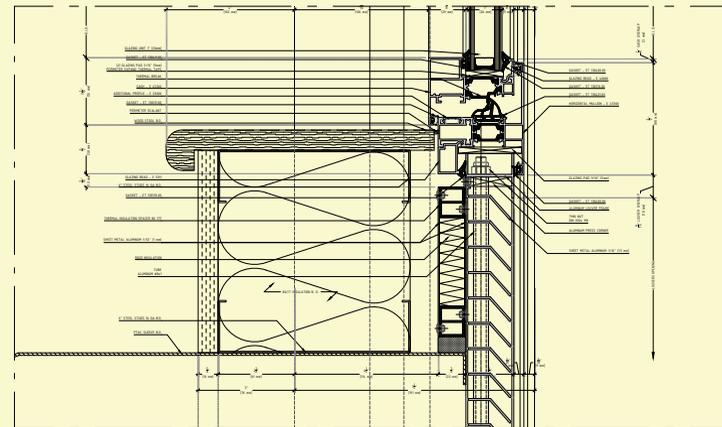
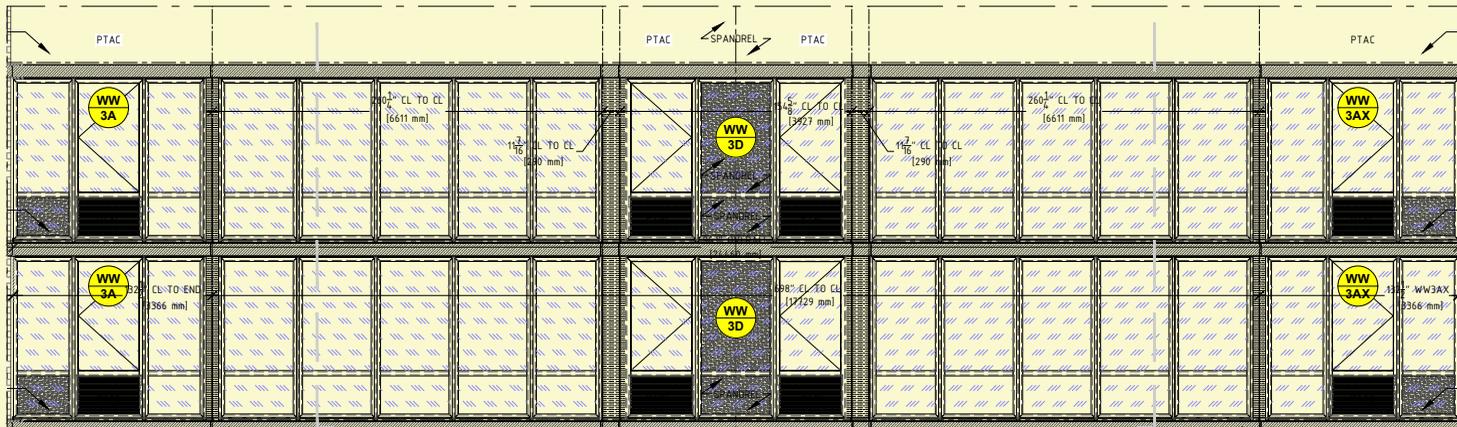
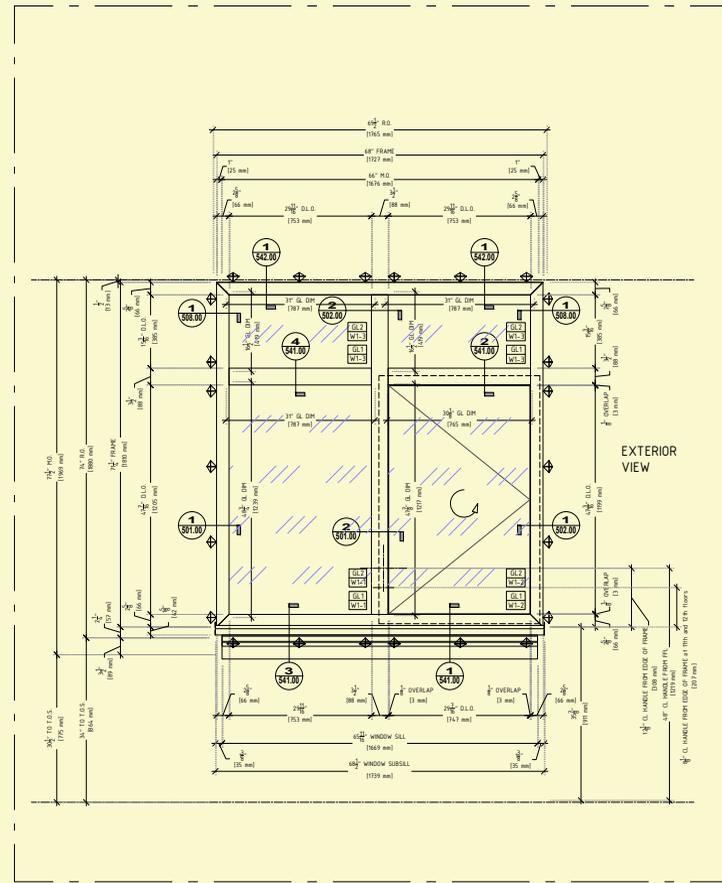
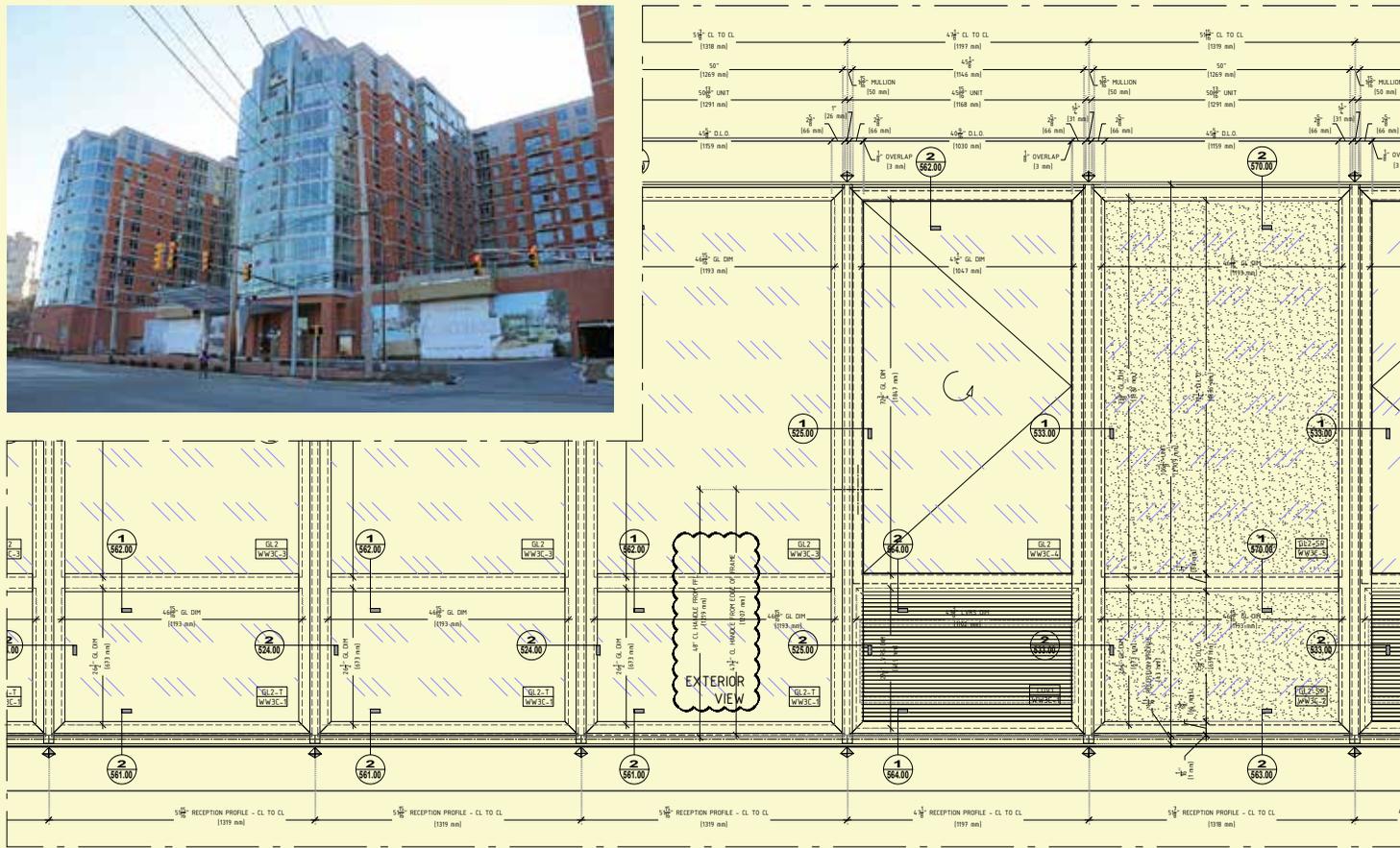


RIVER ROAD

Vijay Kale Architects PC

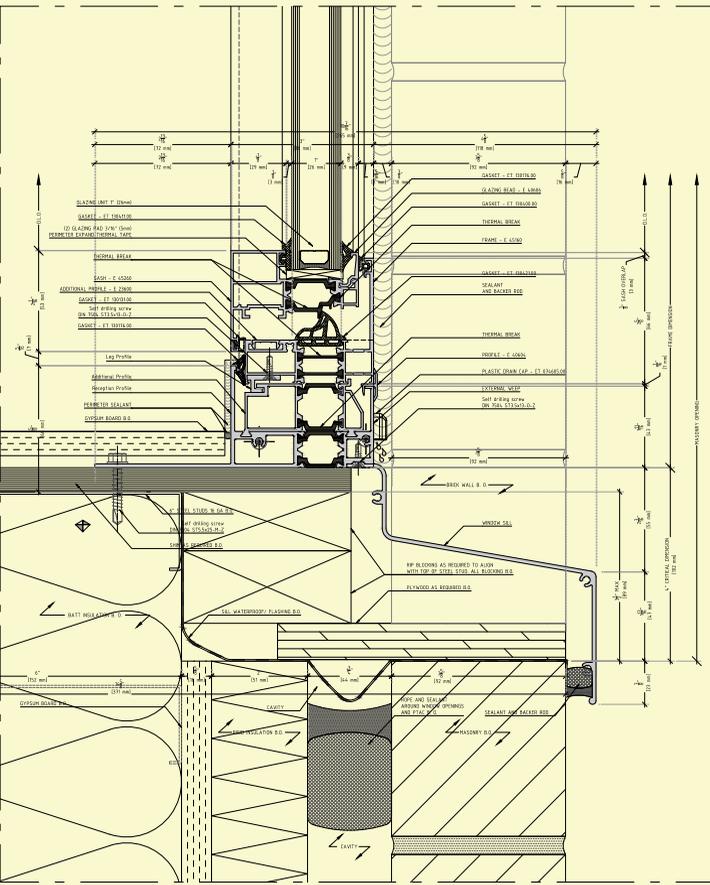
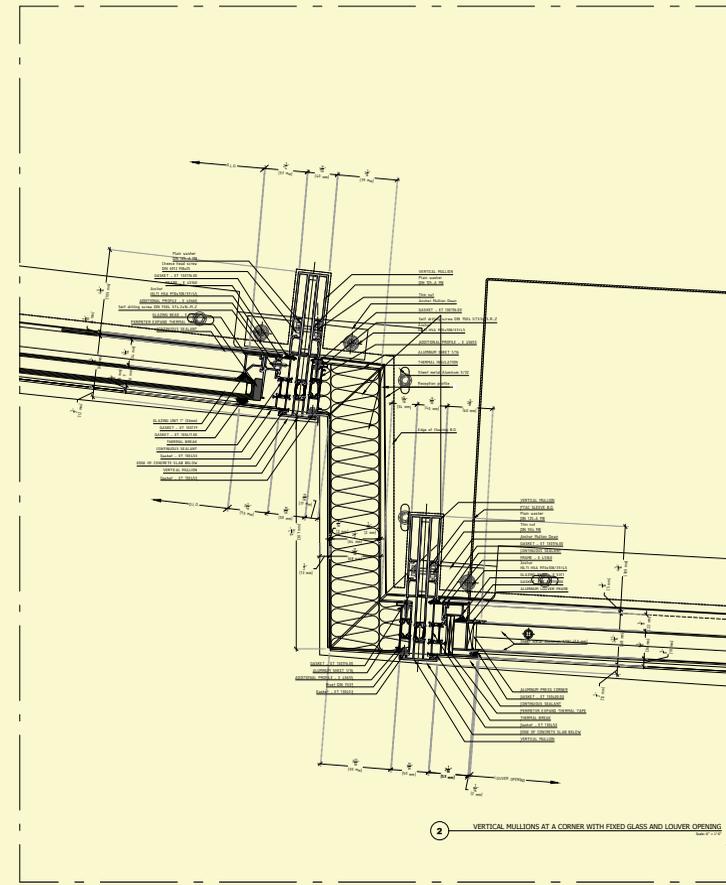
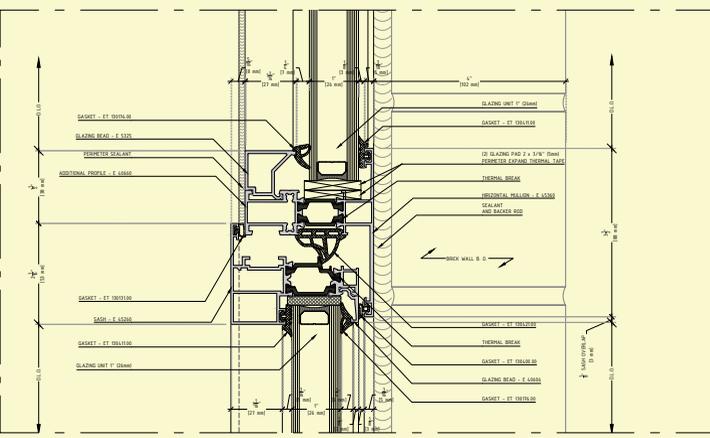
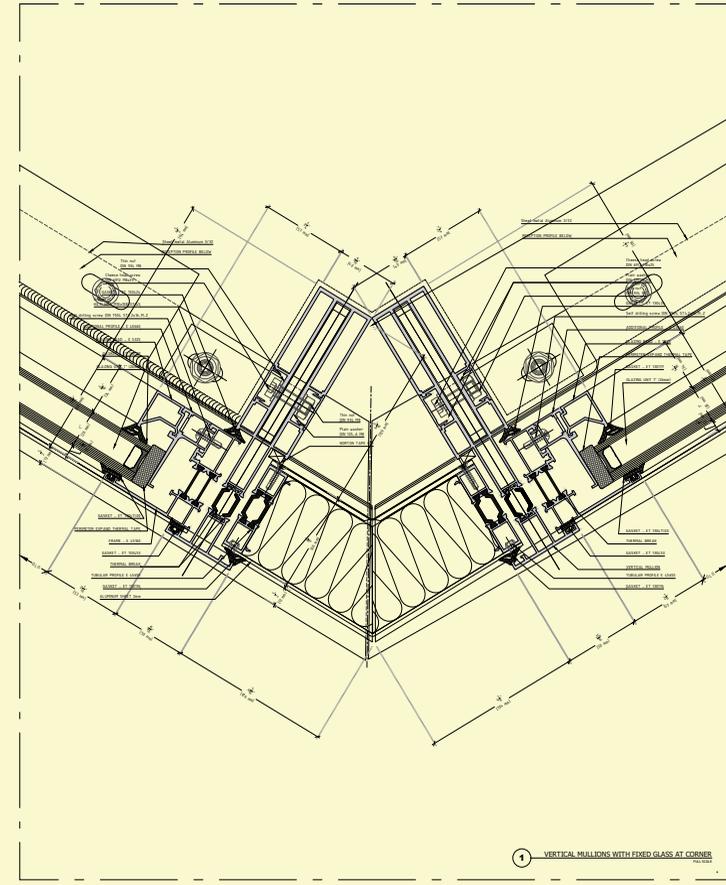
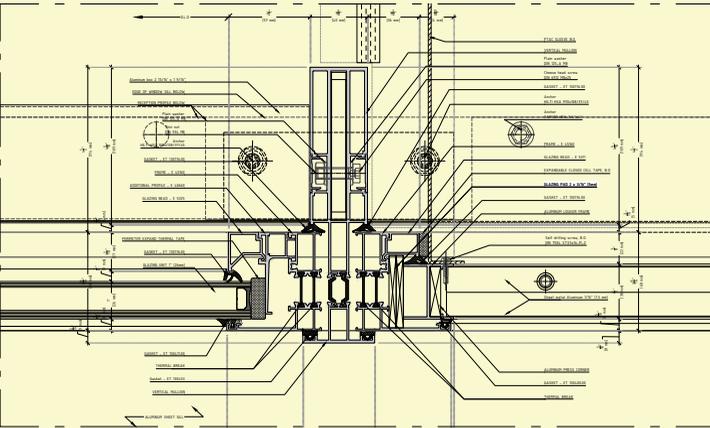
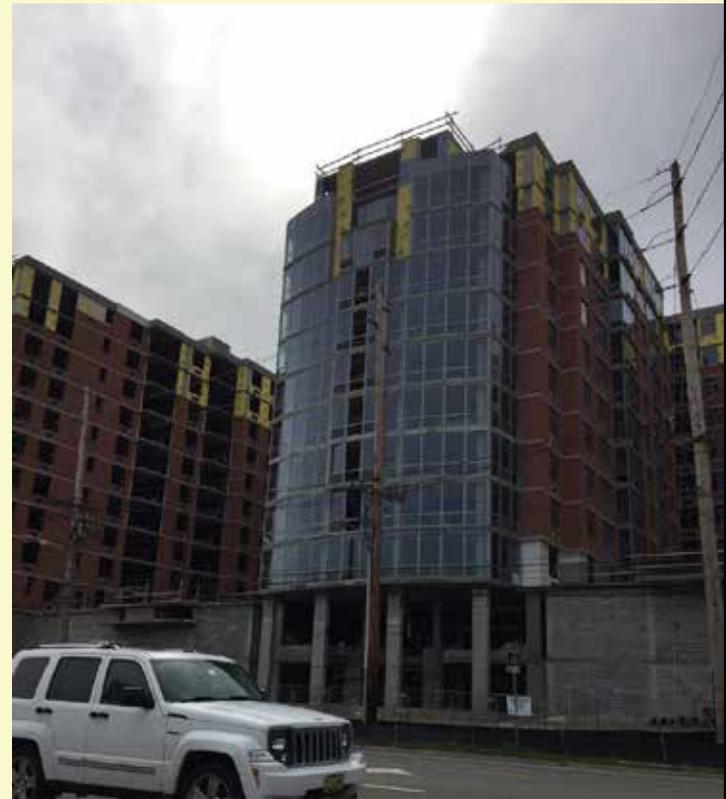


Location: New Jersey, USA
 Date of completion: 2016
 Area: 72 371 sq. ft.
 Shop Drawings: 264 pcs @ ARCH D
 Cut Sheets: XX pcs
 Contractor: European Window Systems (EWS)



Scope of Services:
 Shop drawings & Workshop drawings for:
 Windows
 Doors
 Window walls
 Railings

STUDIO CAD

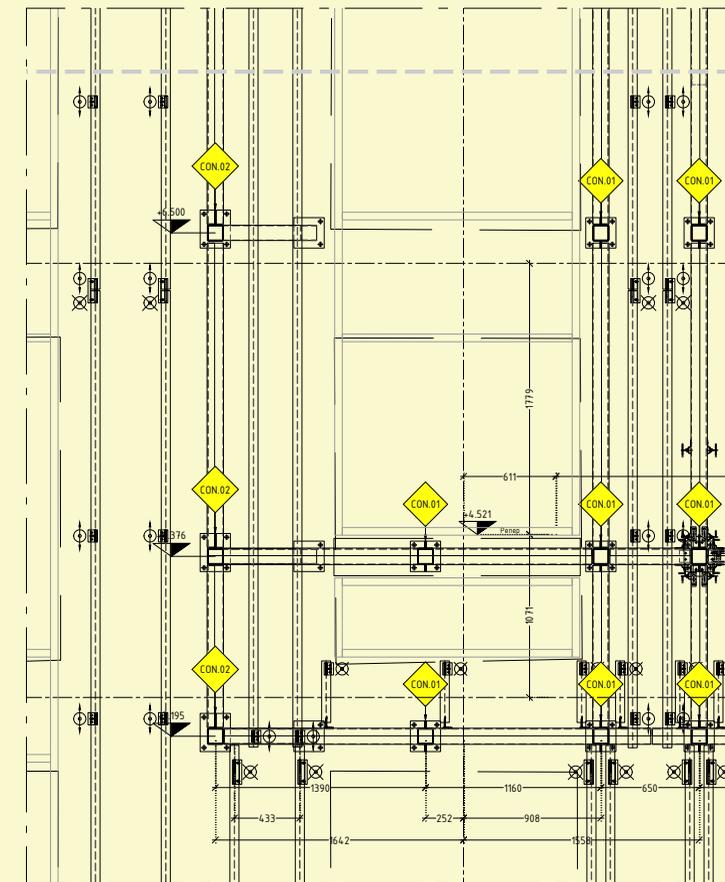
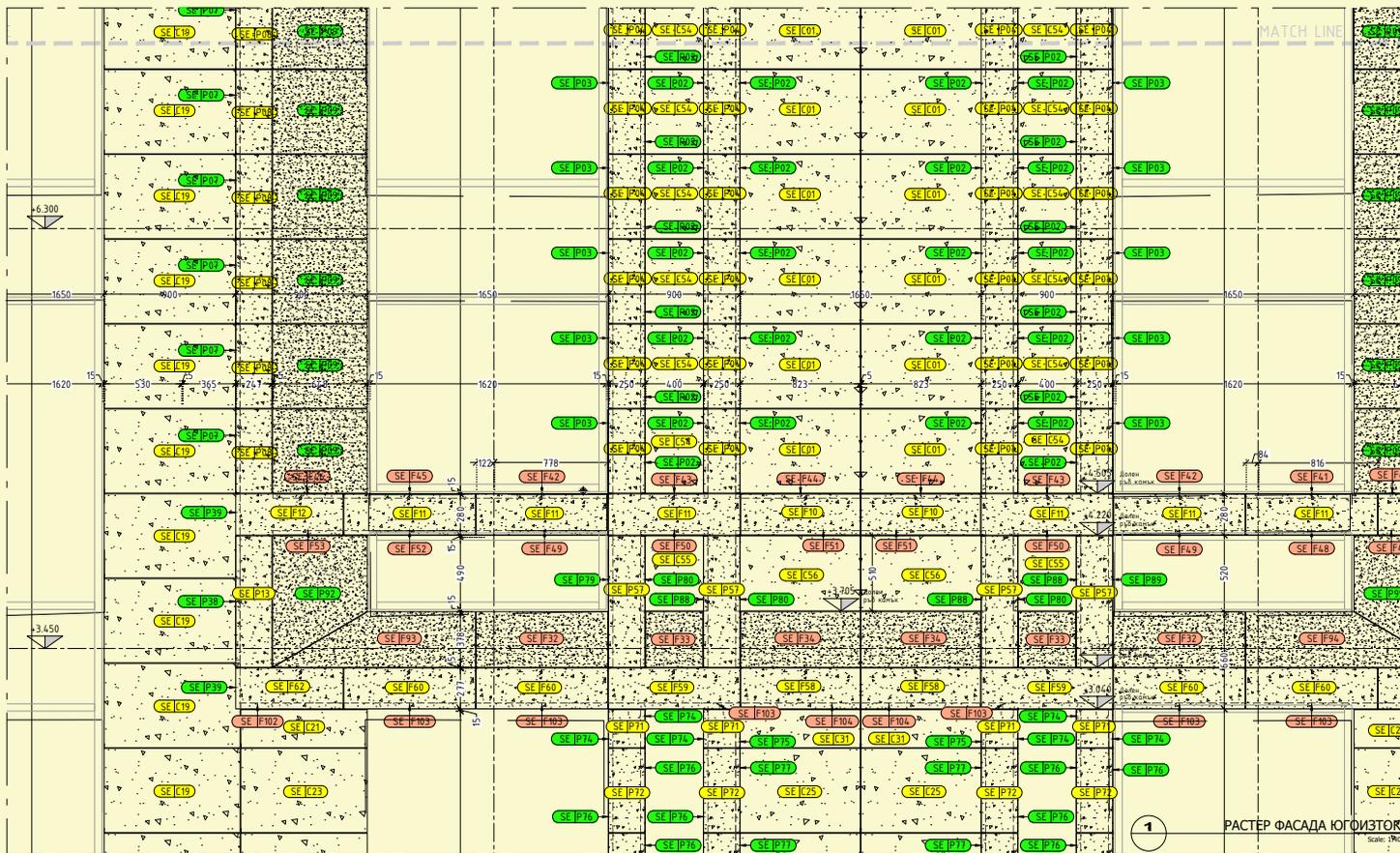
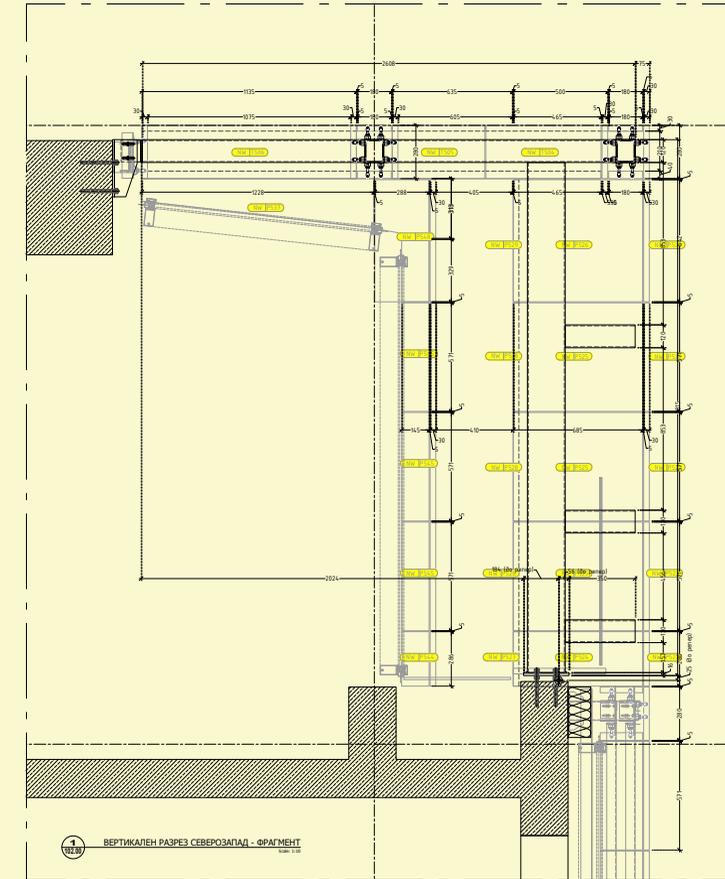
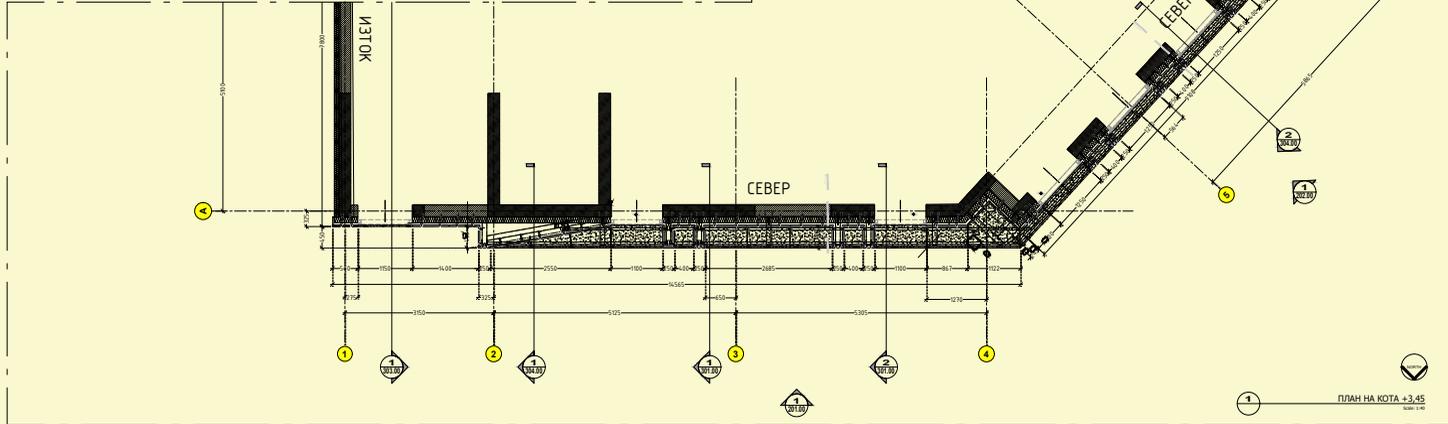


BUDEVSKA OFFICES

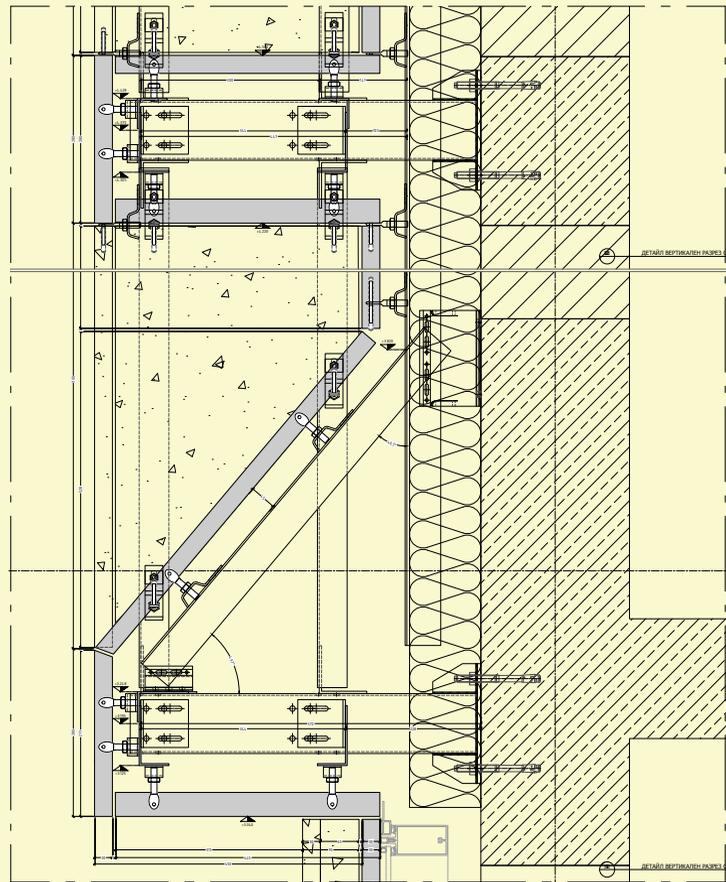
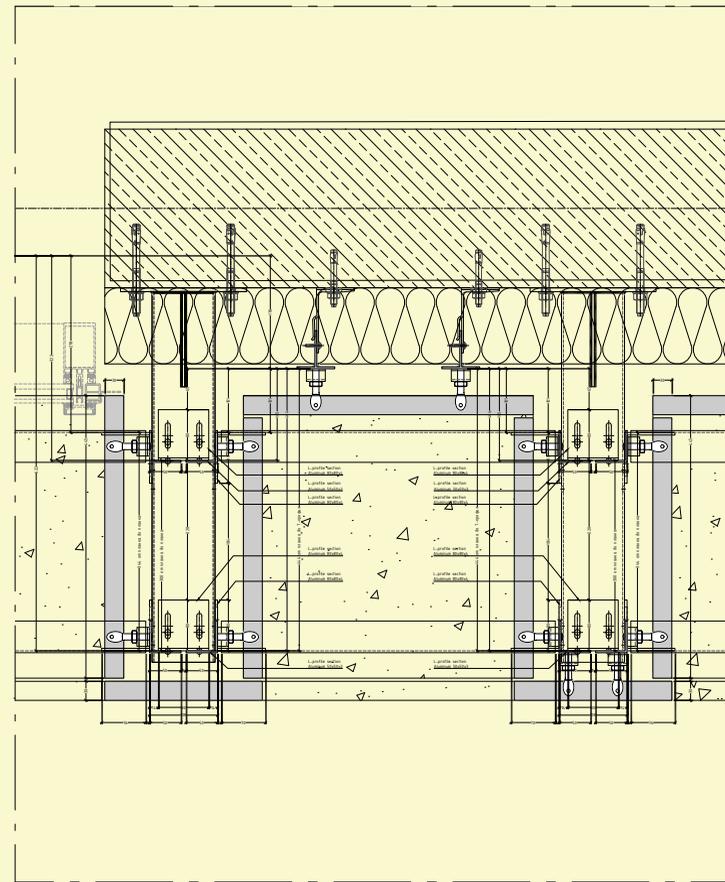
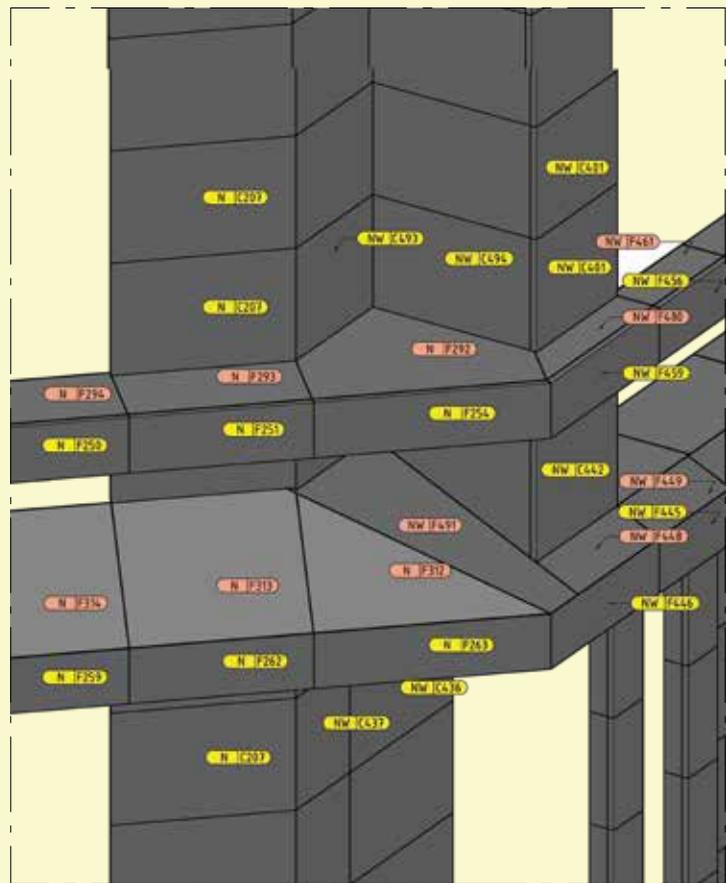
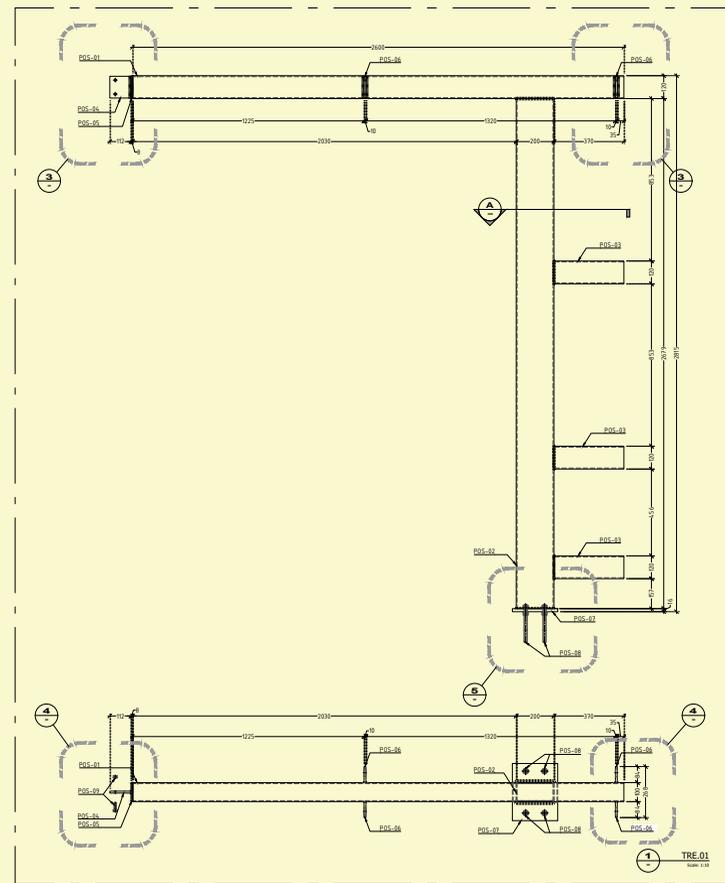
PROIN PLUS ARCHITECTURE



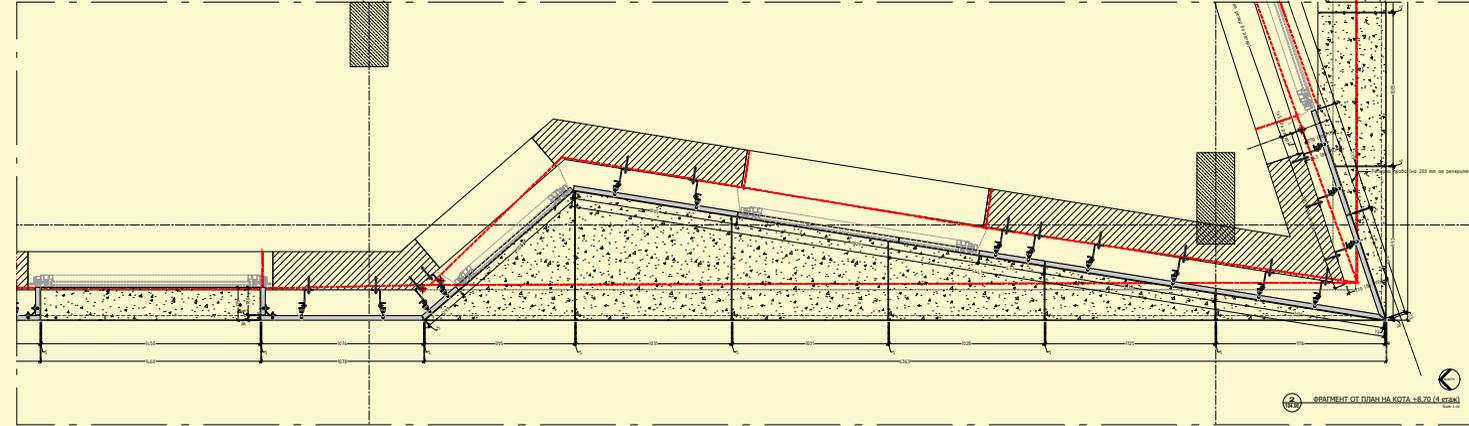
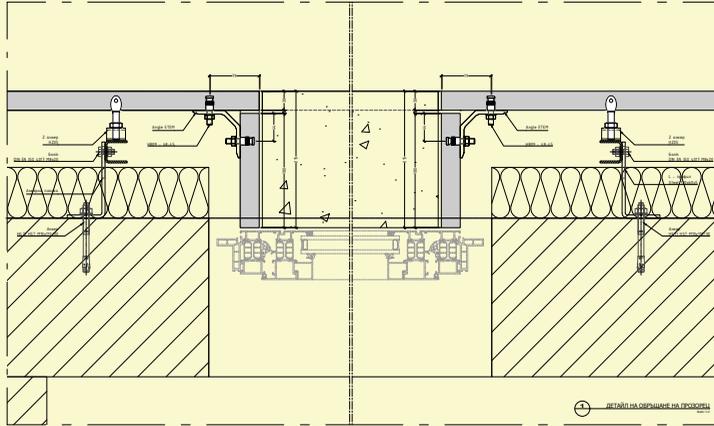
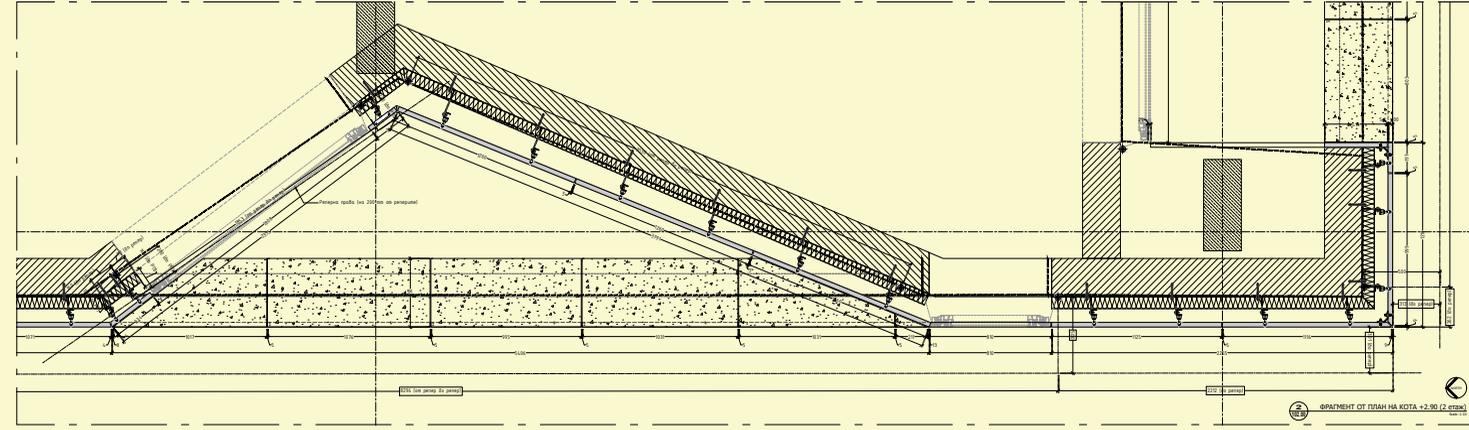
Location: Sofia, Bulgaria
 Date of completion: 2013
 Area: 8 826 sq. ft.
 Shop Drawings: 754 pcs @ A3
 Cut Sheets: XX pcs
 Contractor: NIVEL



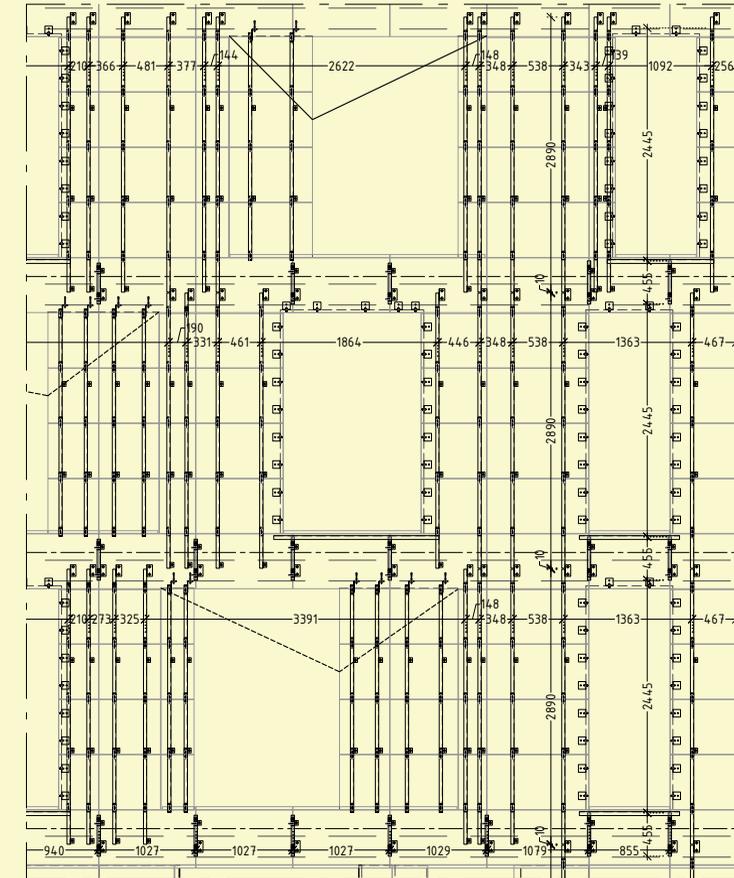
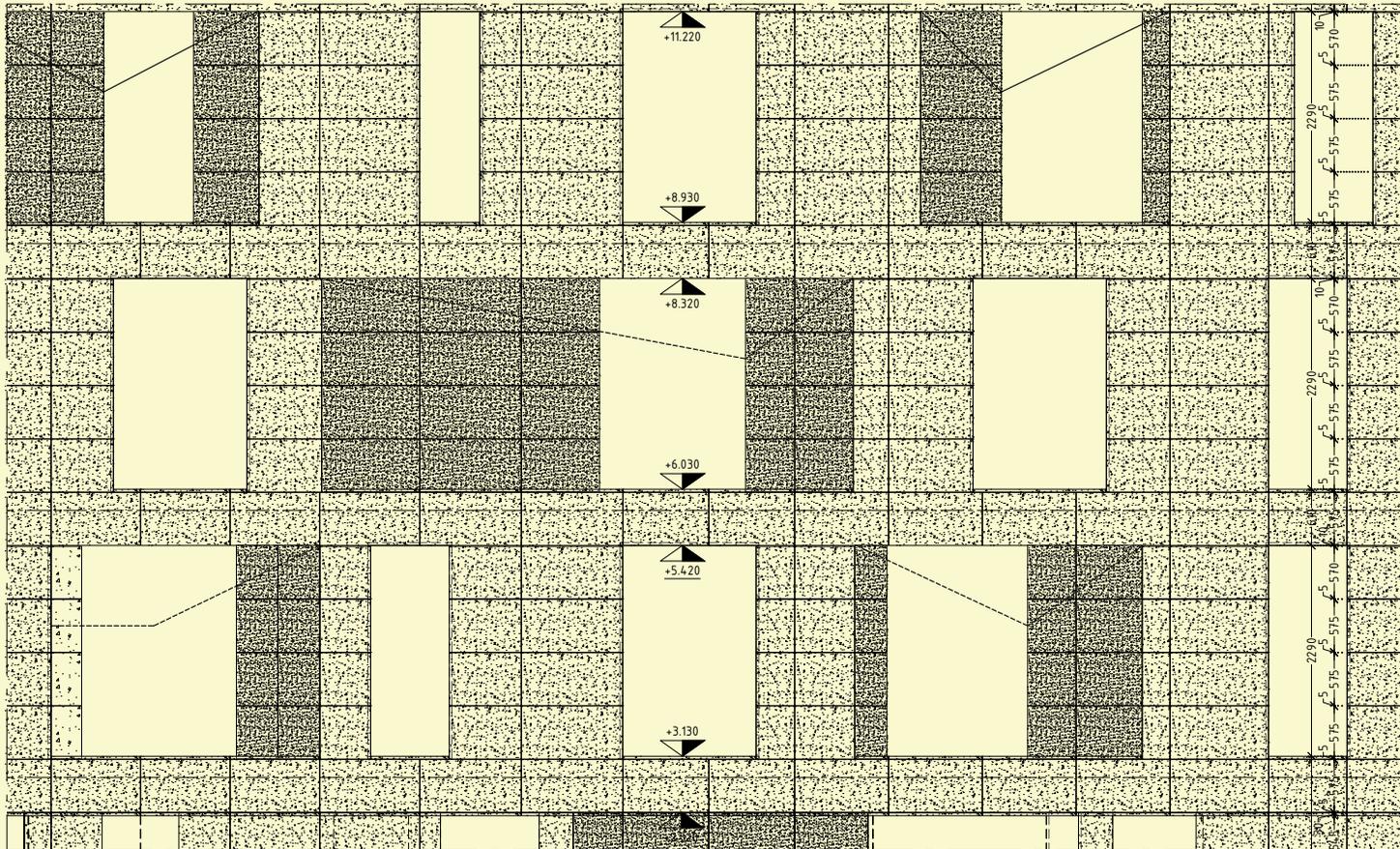
Scope of Services:
 Shop drawings & Workshop drawings for:
 Metal construction
 Stone cladding
 Supporting structure for pergolas, pilasters, windows, and other facade elements
 Specifications



LYUBOTRAN RESIDENTIAL BUILDING



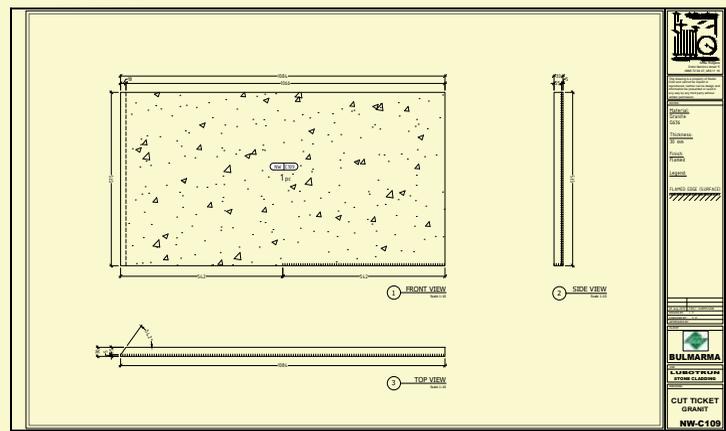
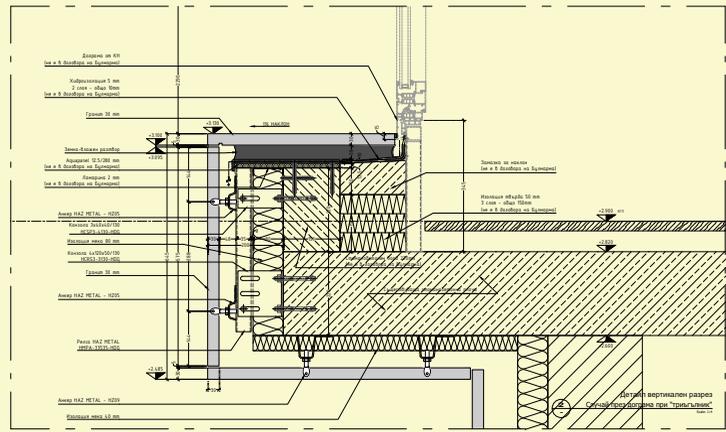
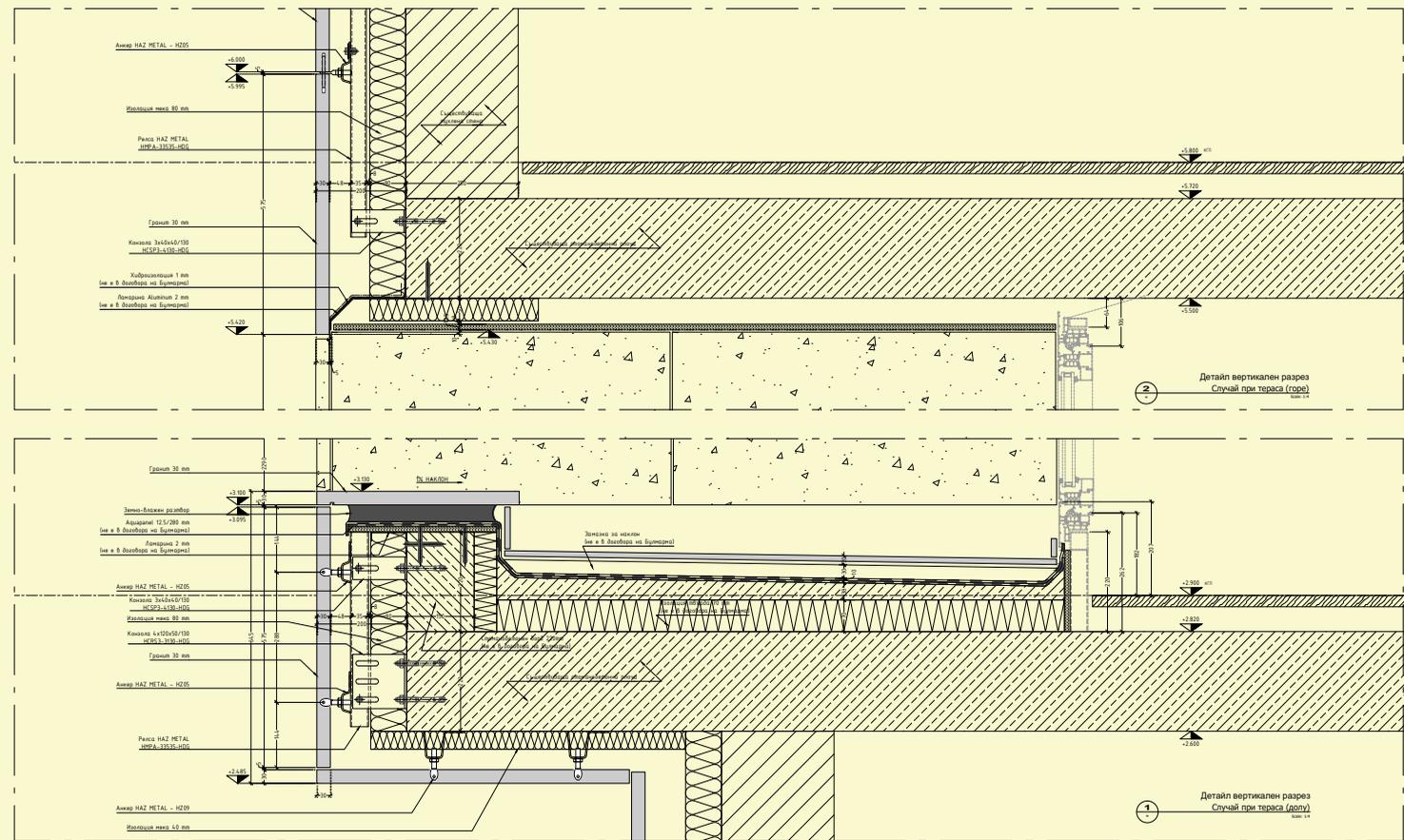
Location: Sofia, Bulgaria
 Date of completion: 2013
 Area: 11 302 sq. ft.
 Shop Drawings: 1116 pcs @ ARCH D
 Cut Sheets: XX pcs
 Contractor: Bulmarna

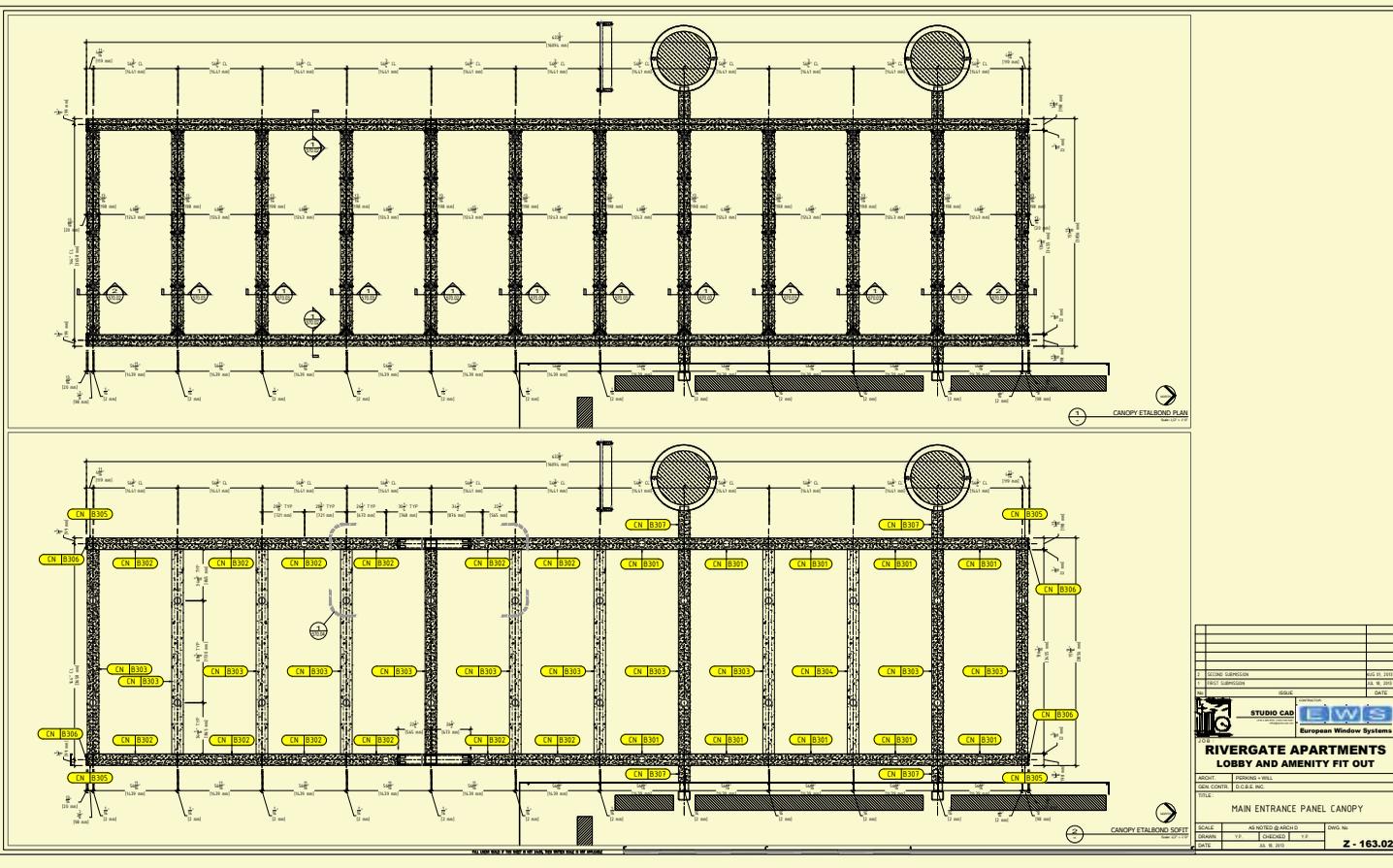
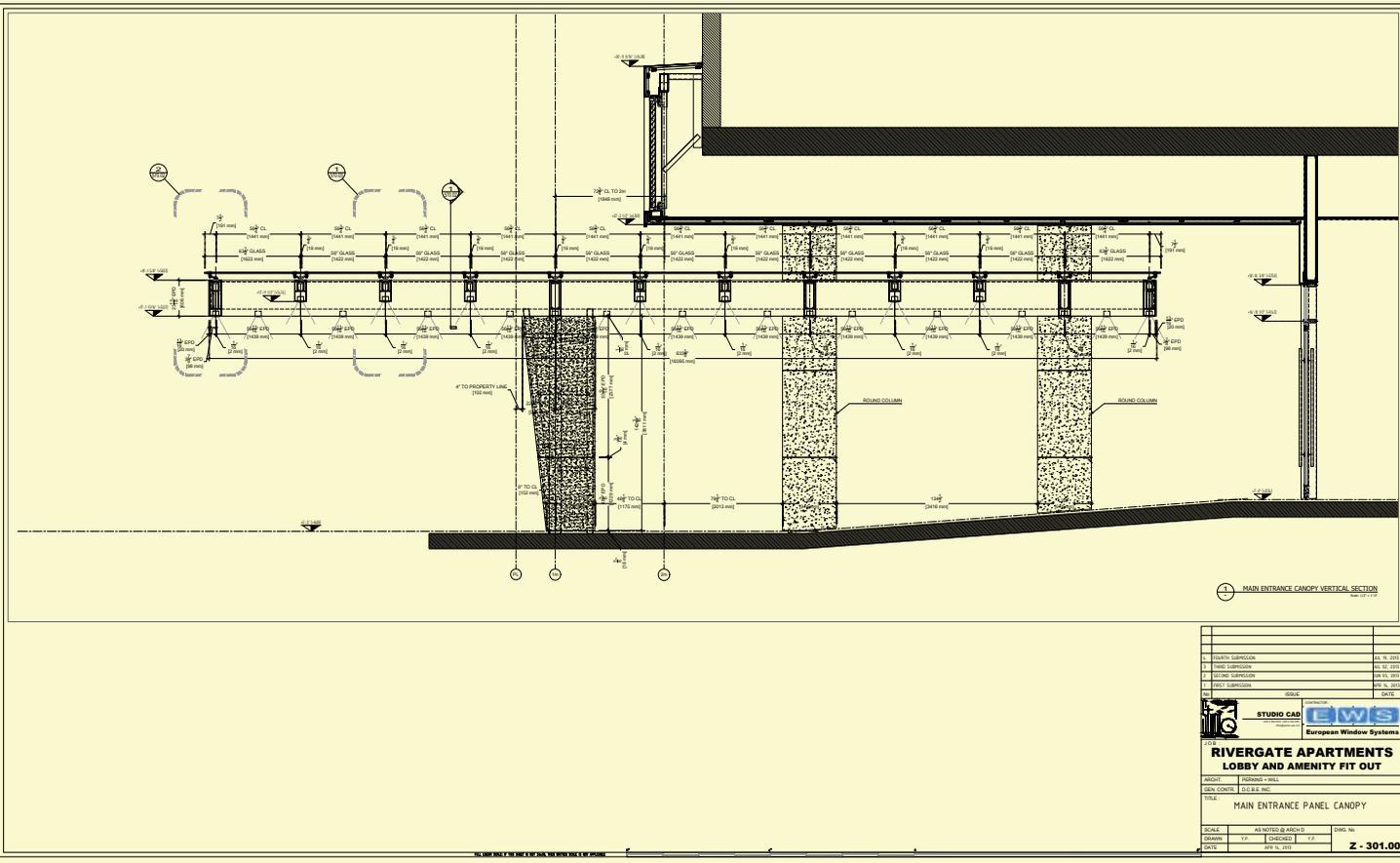


Scope of Services:
 Shop drawings & Workshop drawings for:
 Rainscreen ventilated facade (granite)
 Staircase flooring
 Vestibule flooring

STUDIO CAD



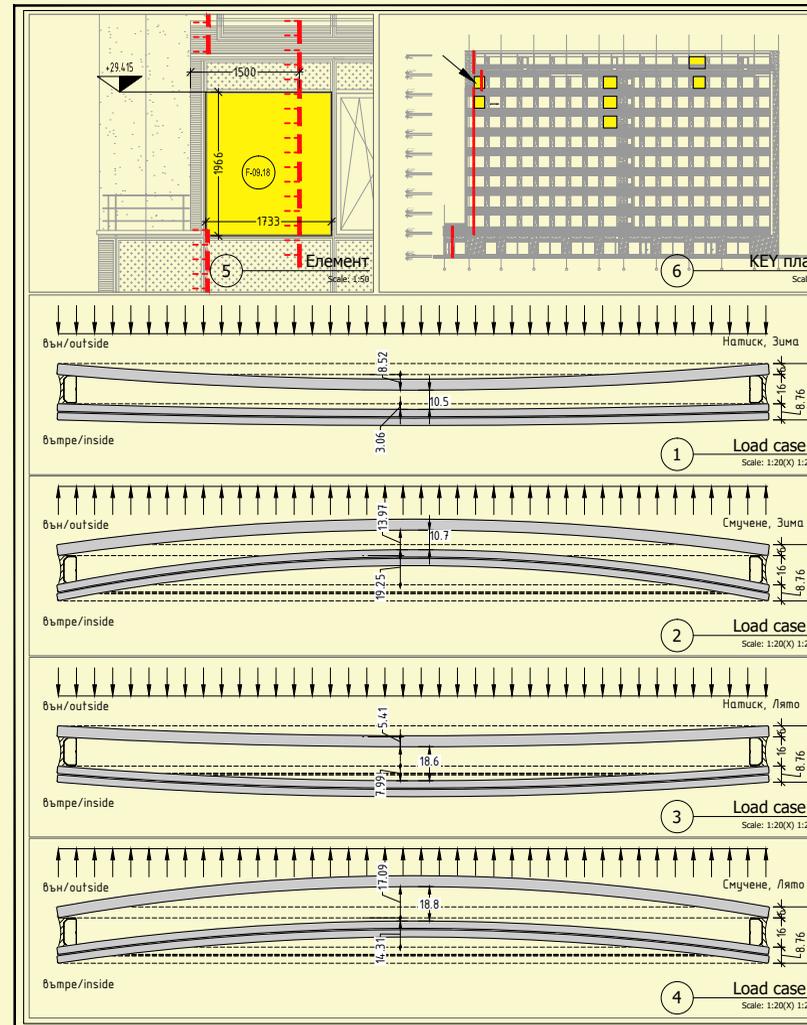
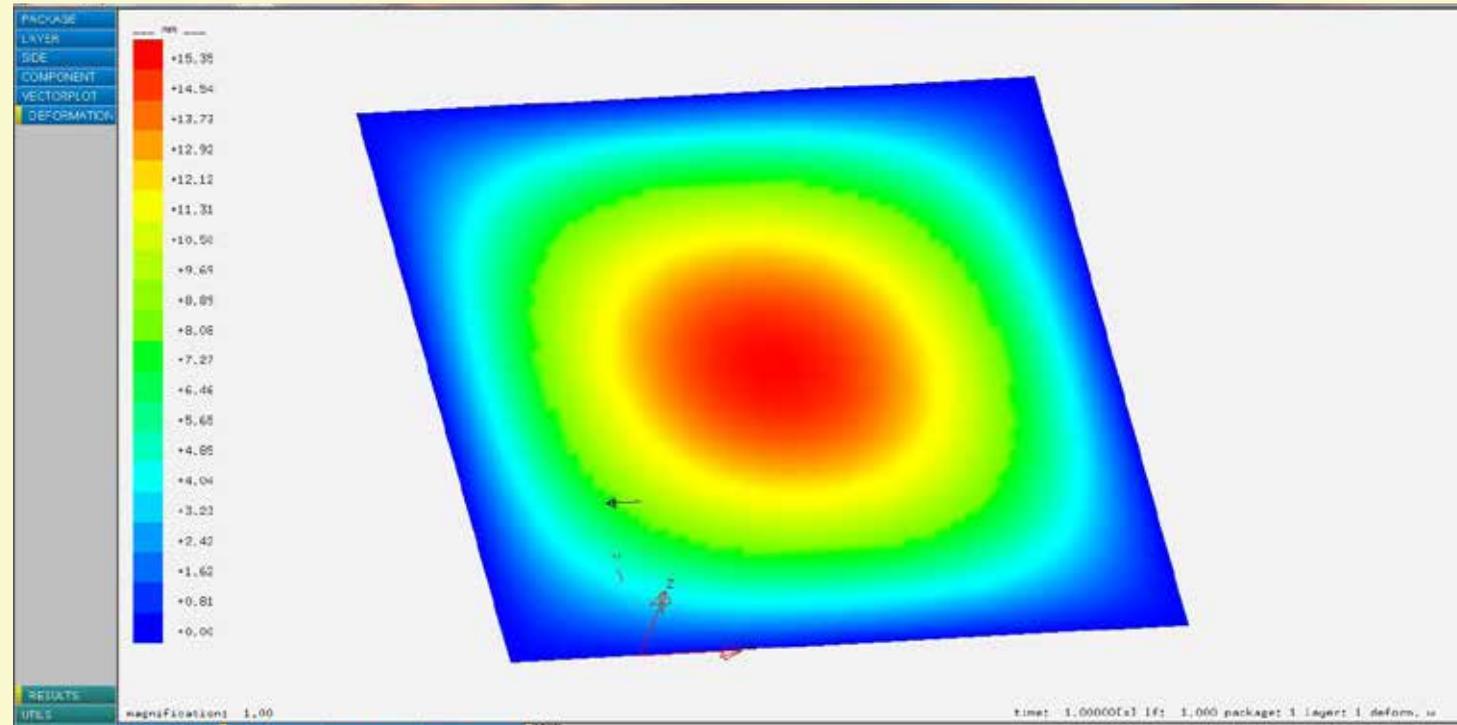
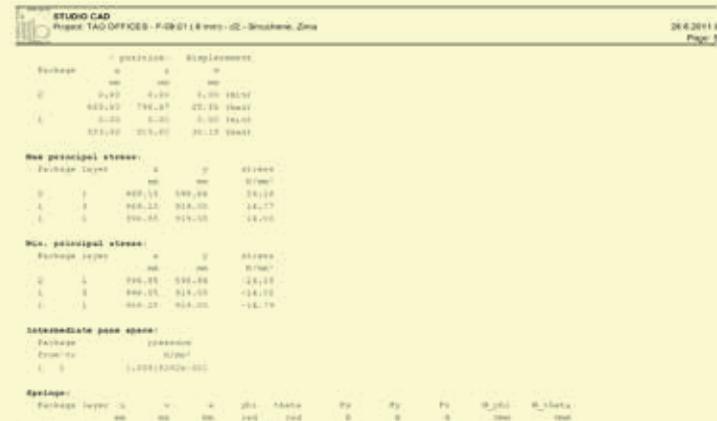
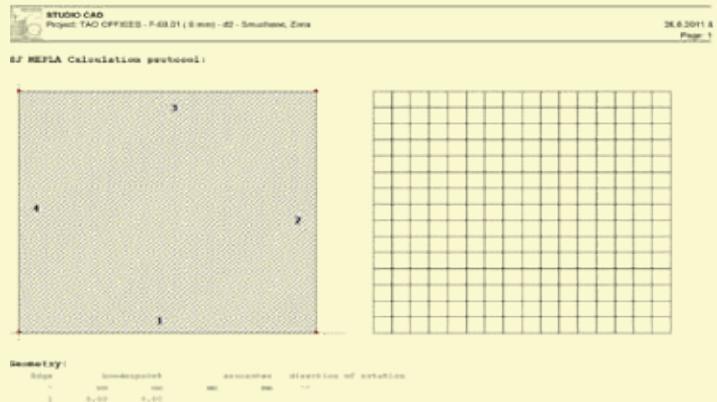




TAO OFFICES



Location: Sofia, Bulgaria
 Date of completion: 2011
 Contractor: Muharski



ПРОТОКОЛ / PROTOCOL за стъклопакет на елемент F-09.18 (6)

ИЗХОДНИ ДАНИИ

| Имя на параметър | Значение |
|------------------|----------|
| Имя на файл | MEFLA |
| Имя на проект | F-09.18 |

Изчисления на външен въздушен въздух:

| Имя на параметър | Значение |
|---------------------------------------|------------|
| W, средно значение на въздушен въздух | 0.03 mm/s² |
| W, макс. на максимално значение | 0.03 |
| W, минимално | -0.03 |

Изчисления на вътрешен въздушен въздух:

| Имя на параметър | Значение |
|---------------------------------------|------------|
| W, средно значение на въздушен въздух | 0.03 mm/s² |
| W, макс. на максимално значение | 0.03 |
| W, минимално | -0.03 |

Изчисления на снежен товар:

| Имя на параметър | Значение |
|------------------------------------|------------|
| W, средно значение на снежен товар | 0.03 mm/s² |
| W, макс. на максимално значение | 0.03 |
| W, минимално | -0.03 |

Изчисления на вятърна сила:

| Имя на параметър | Значение |
|------------------------------------|------------|
| W, средно значение на вятърна сила | 0.03 mm/s² |
| W, макс. на максимално значение | 0.03 |
| W, минимално | -0.03 |

ОБЩЕНИ РЕЗУЛТАТИ

| Load case | Max stress | Min stress | Deformation |
|-------------|--------------|---------------|-------------|
| Load case 1 | 182.57 mm/s² | -182.57 mm/s² | 0.03 mm |
| Load case 2 | 182.57 mm/s² | -182.57 mm/s² | 0.03 mm |
| Load case 3 | 182.57 mm/s² | -182.57 mm/s² | 0.03 mm |
| Load case 4 | 182.57 mm/s² | -182.57 mm/s² | 0.03 mm |



STUDIO CAD
 Т. Димитров 3
 сграда "Леонов пазар", офис 1
 0888 72 64 47, 489 11 16

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18 юни 2011 г.
 ИЛИЯНКА ДИМИТРОВА
 ПРОЕКТИСТ
 МУХАРСКИ

ТАО OFFICES

F-09.18 (6)

SOFIA AIRPORT CENTER

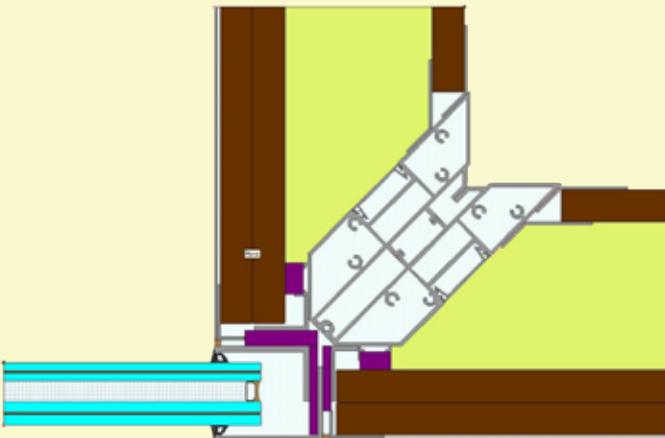


Location: Sofia, Bulgaria
 Date of completion: 2009
 Contractor: Kristian Neiko

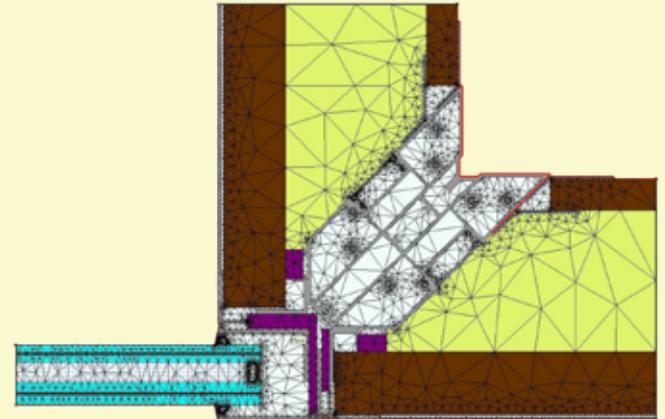


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 Sofia 1324, Bulgaria
 mobile +359 883 72 84 47, phone +359 2 489 11 16

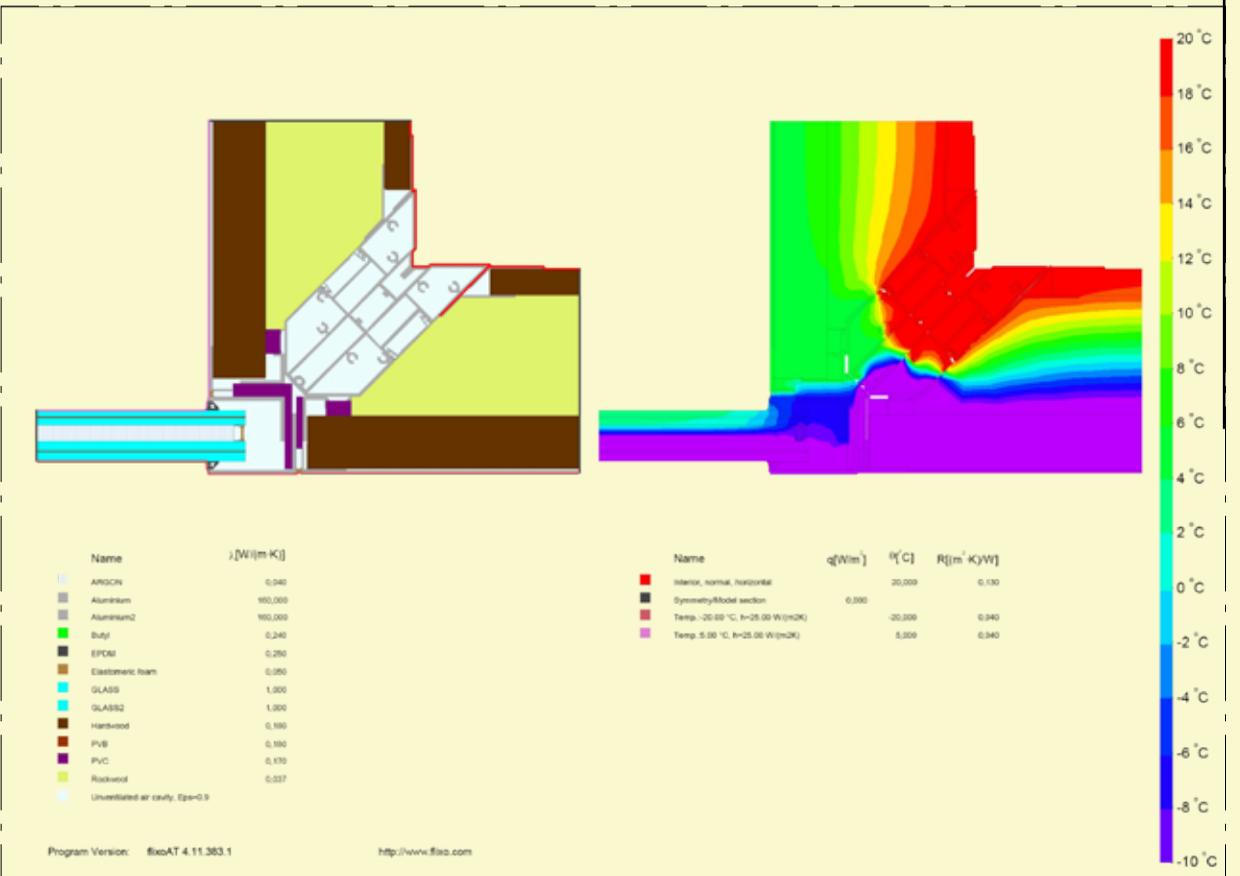
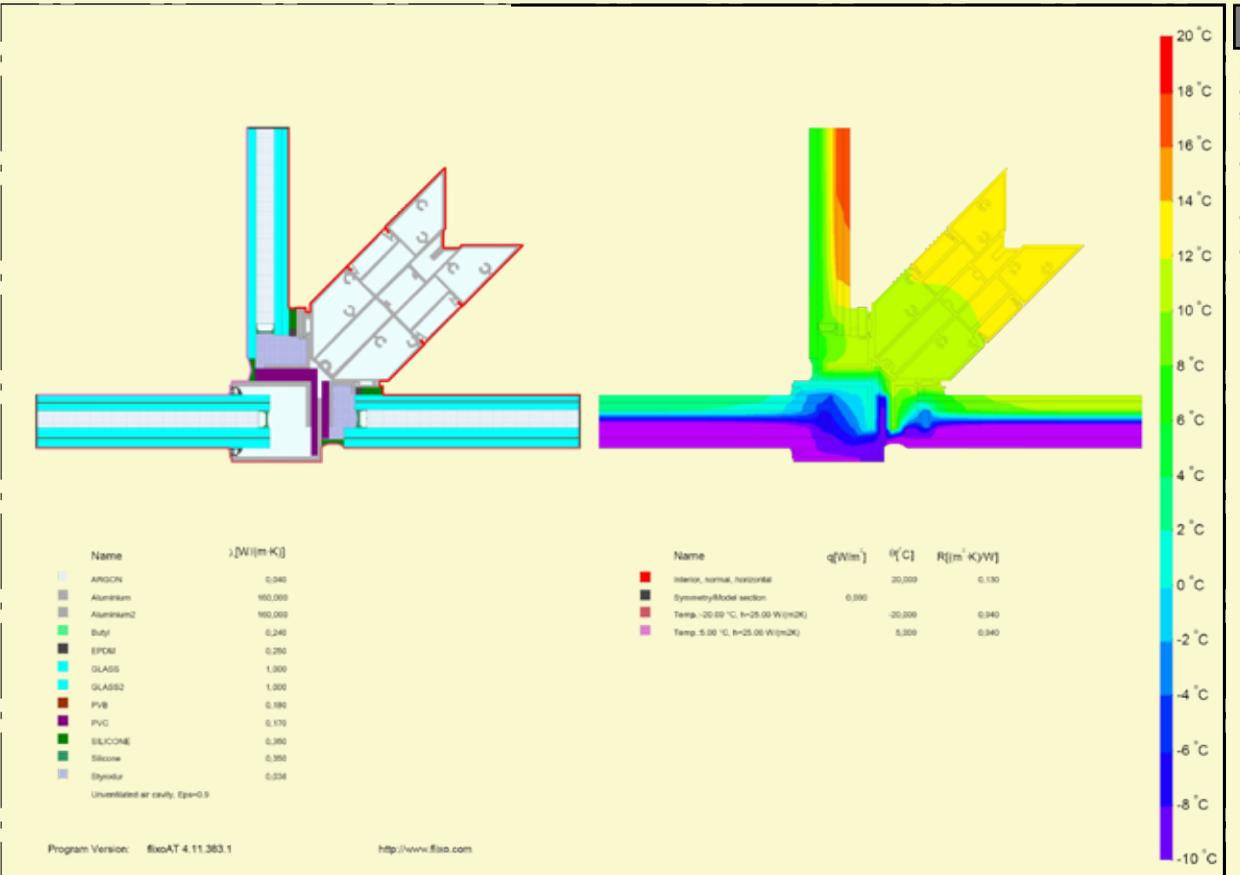
2.Horizontal section:



3.Mesh:



4.Results of the calculation (used materials, isotherms and boundary condition table):

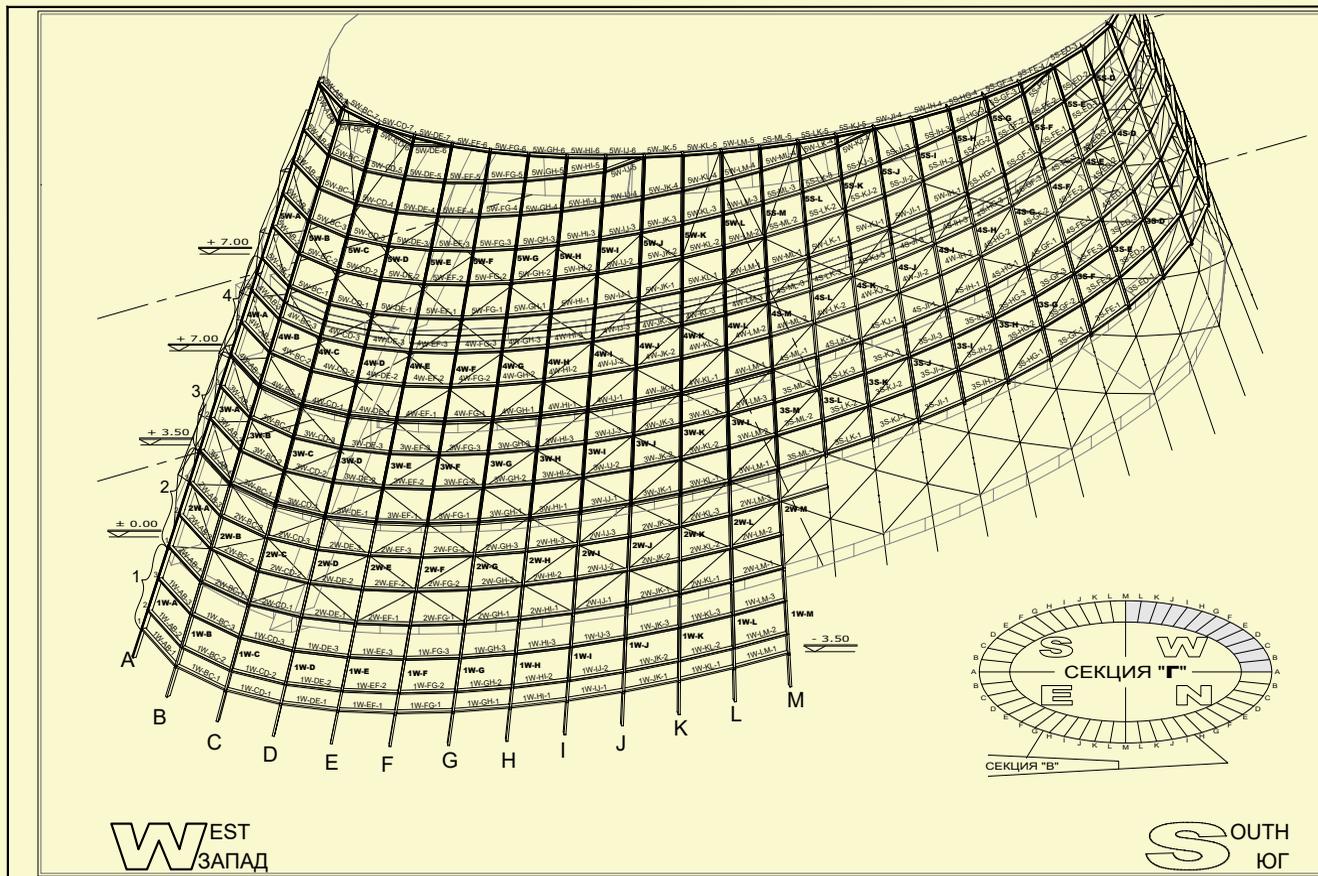
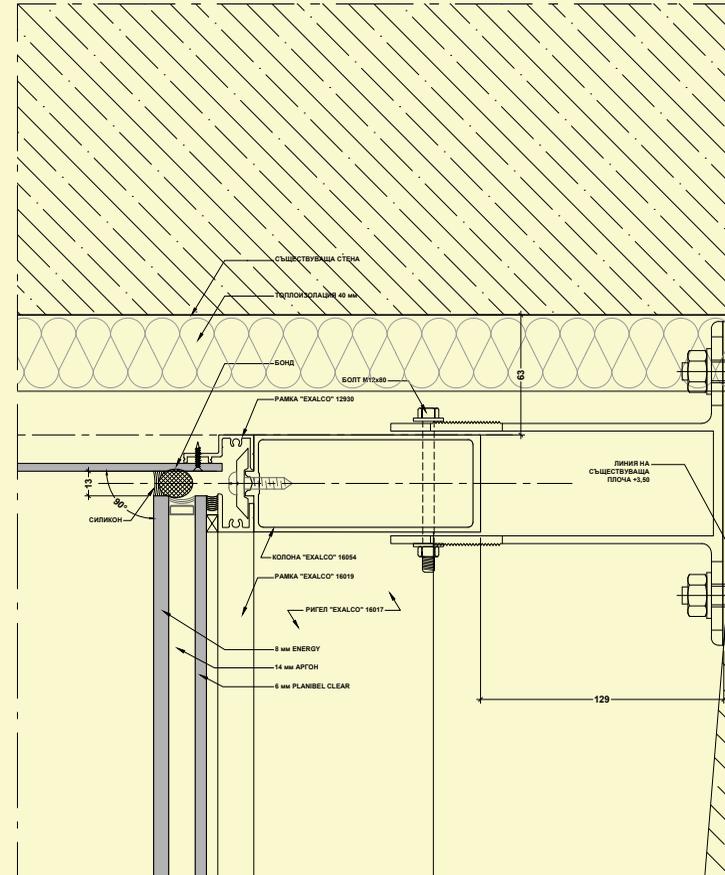
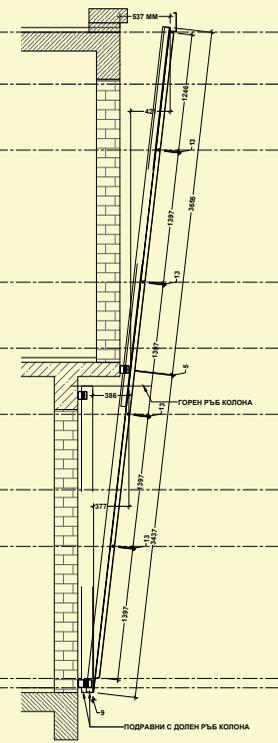
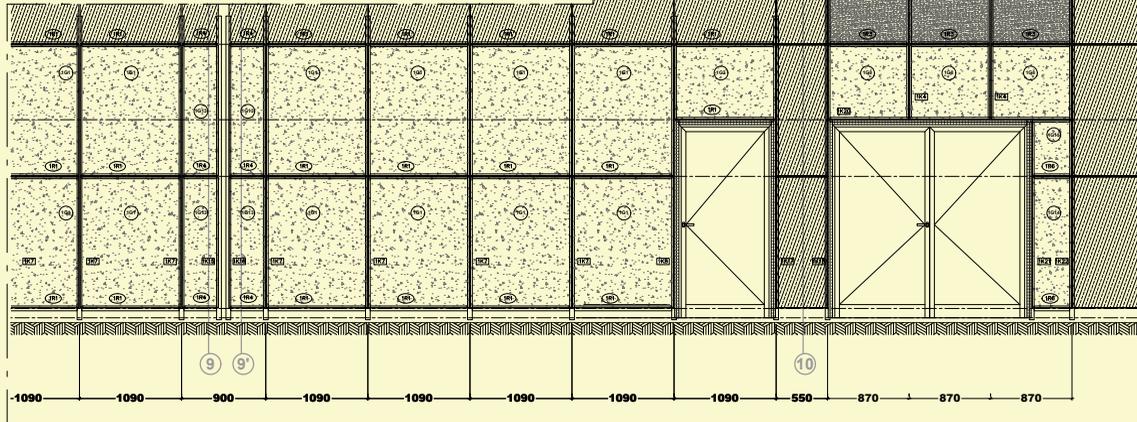


Scope of Services:
 Condensation calculations for:
 Winter garden details

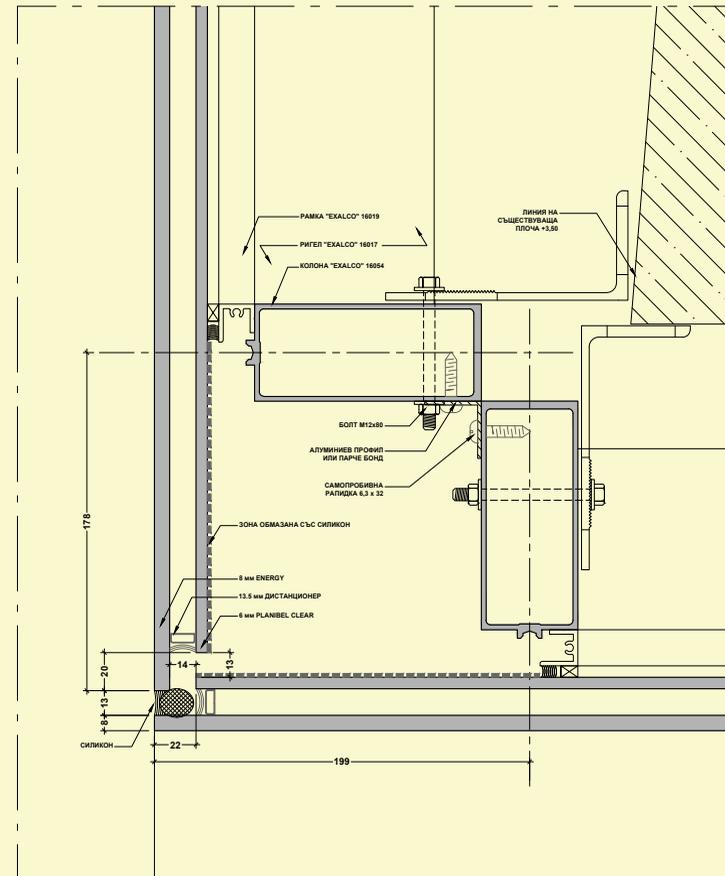
OFFICE BUILDING

AMFION Ltd.

Location: Sofia, Bulgaria
 Date of completion: 2009
 Area: 42 225 sq. ft.
 Shop Drawings: XX pcs @ ARCH D
 Cut Sheets: XX pcs
 Contractor: Kristian Neiko



| | |
|---|--|
| | |
| 20.10.2008 3-та промяна 13.12.2008 2-ра промяна 04.07.2009 1-ва промяна 04.07.2009 1-ва промяна 04.07.2009 1-ва промяна | |
| КОТА 2001 | |
| ФАСАДА СЕКЦИЯ Г МОНТАЖНА СХЕМА 40.01 | |



Scope of Services:
 Shop drawings & Workshop drawings for:
 Structural Glazing Curtain wall (EXALCO)
 Doors & Windows (EXALCO)
 Composite Sheet Panels (ETALBOND)
 Steel Canopy (JAKOB)

STUDIO CAD

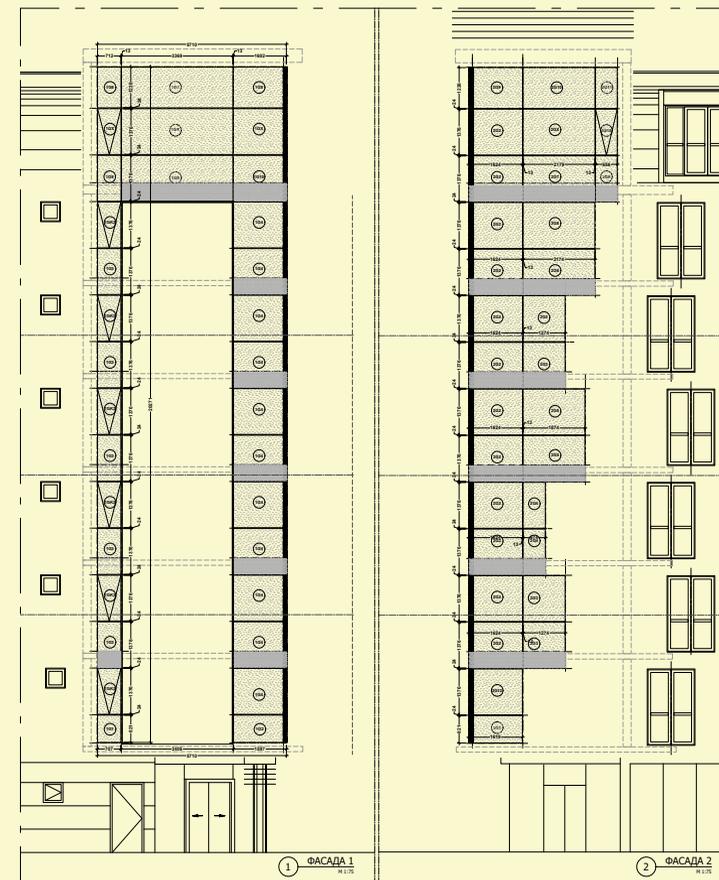
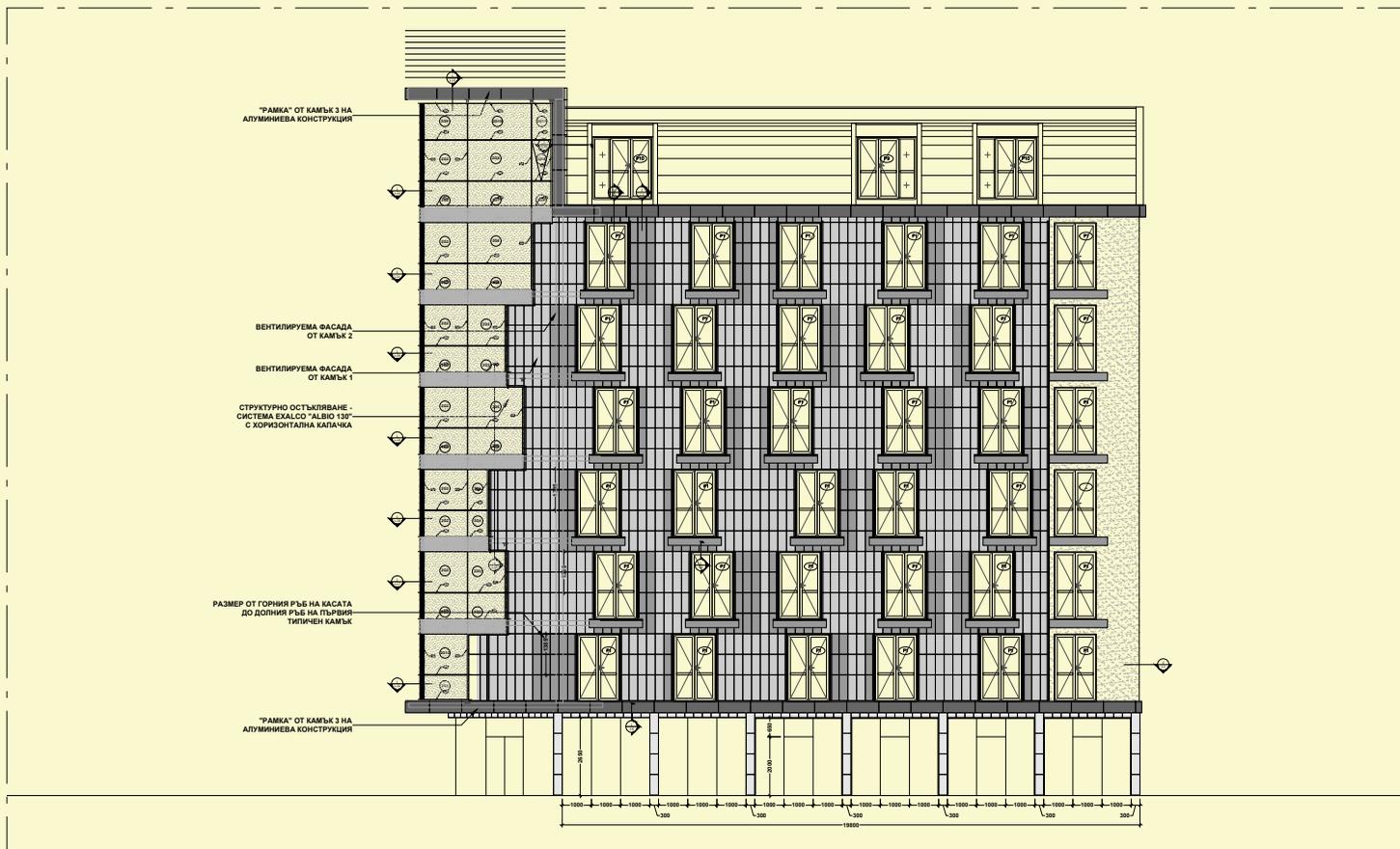
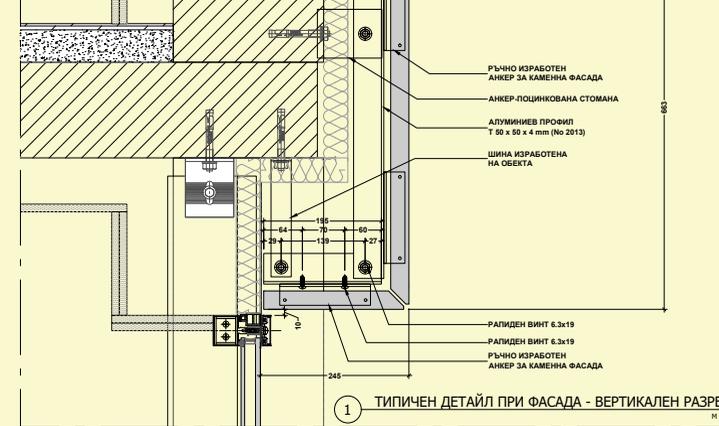
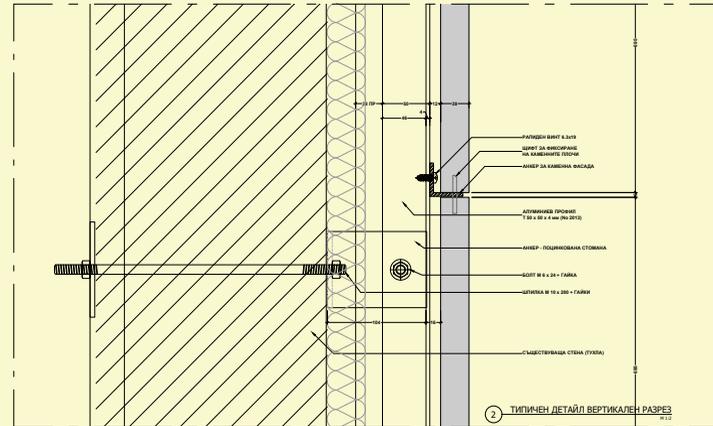
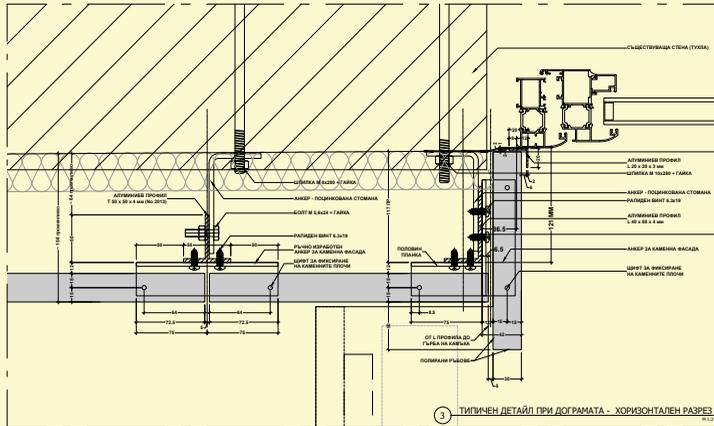
HOTEL BUDAPEST

arch. DANIELA DIKOVA



Location: Sofia, Bulgaria
 Date of completion: 2008
 Area: 14 962 sq. ft.
 Shop Drawings: XX pcs @ ARCH D
 Cut Sheets: XX pcs
 Contractor: Kristian Neiko

Scope of Services:
 Shop Drawings & Workshop drawings for:
 Ventilated Stone Cladding (Granite and Travertine)
 Curtain walls (EXALCO)
 Windows & Doors (EXALCO)
 Decorative railings (Wrought Iron)

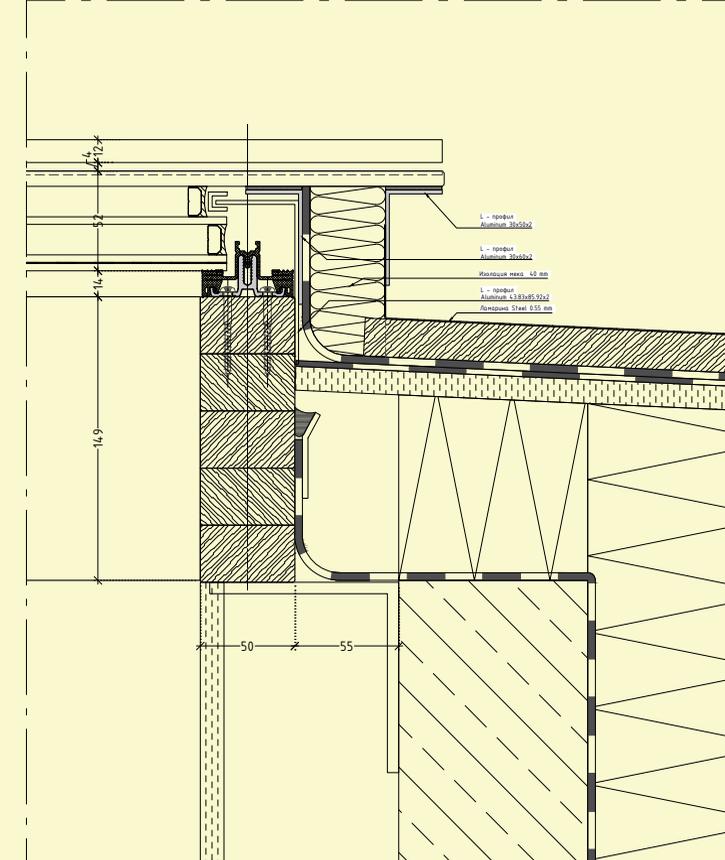
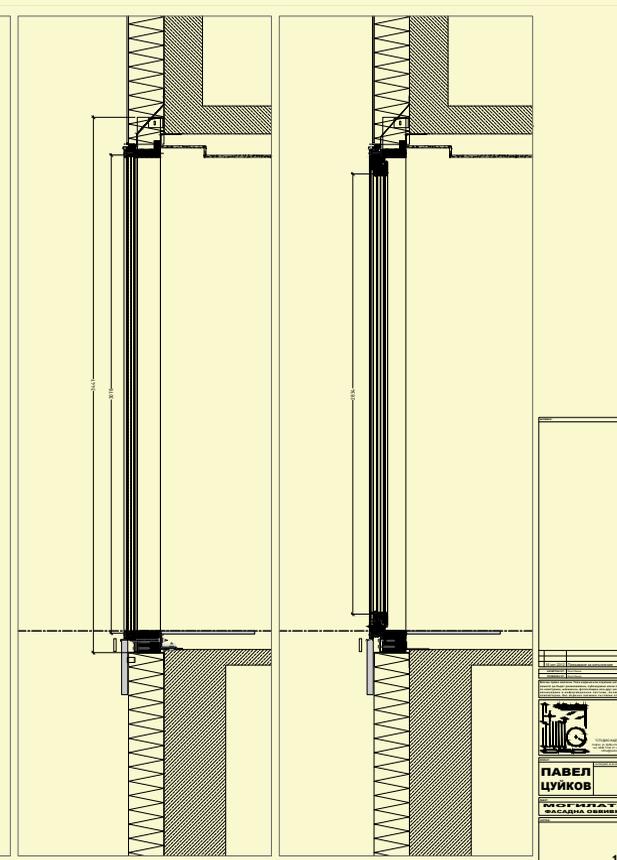
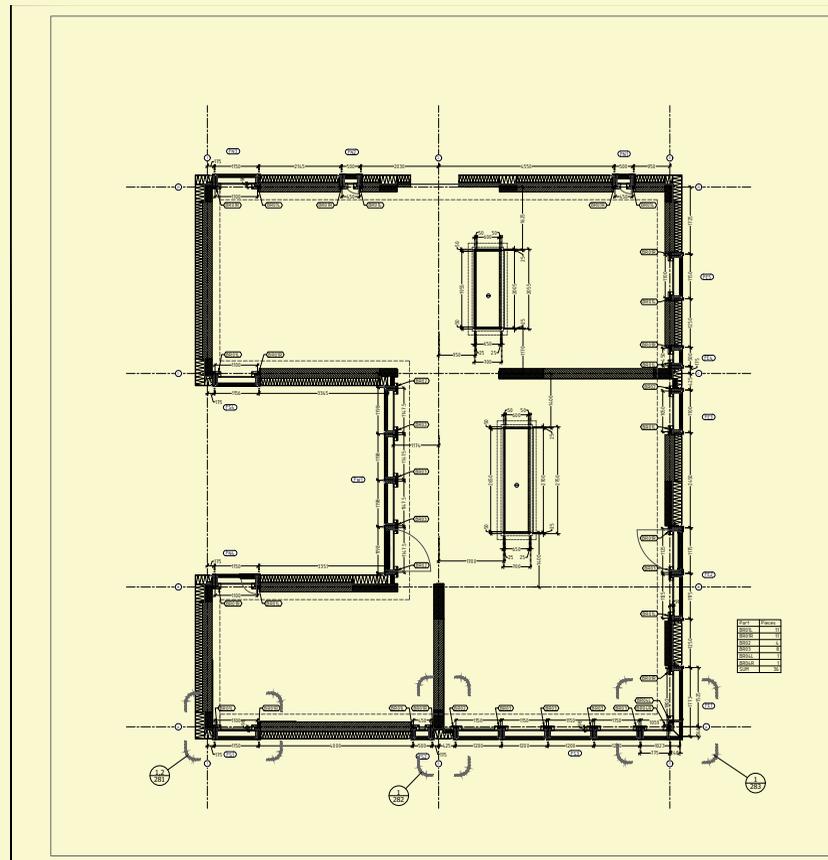
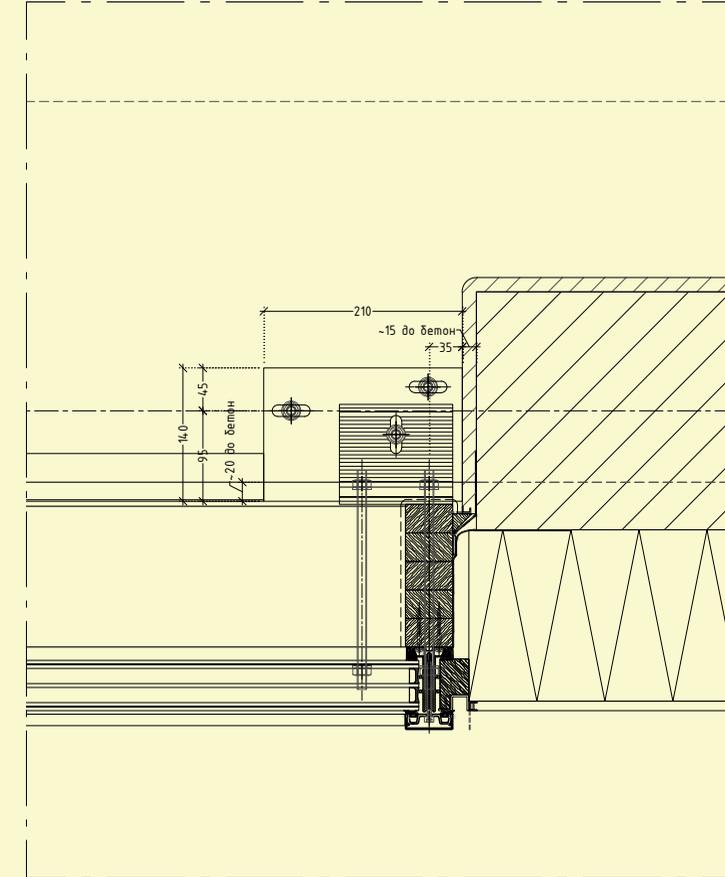
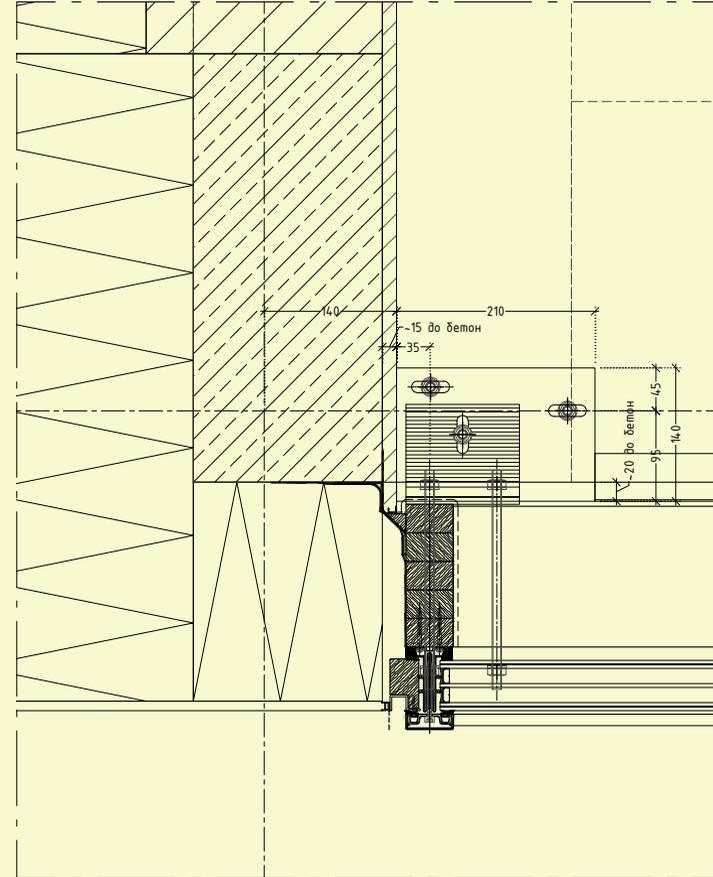
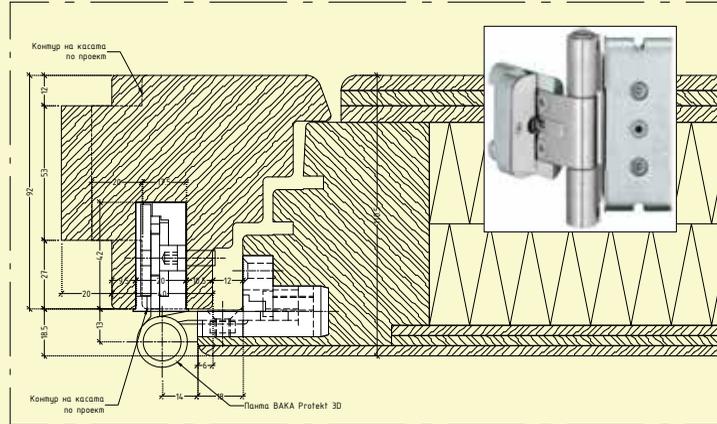


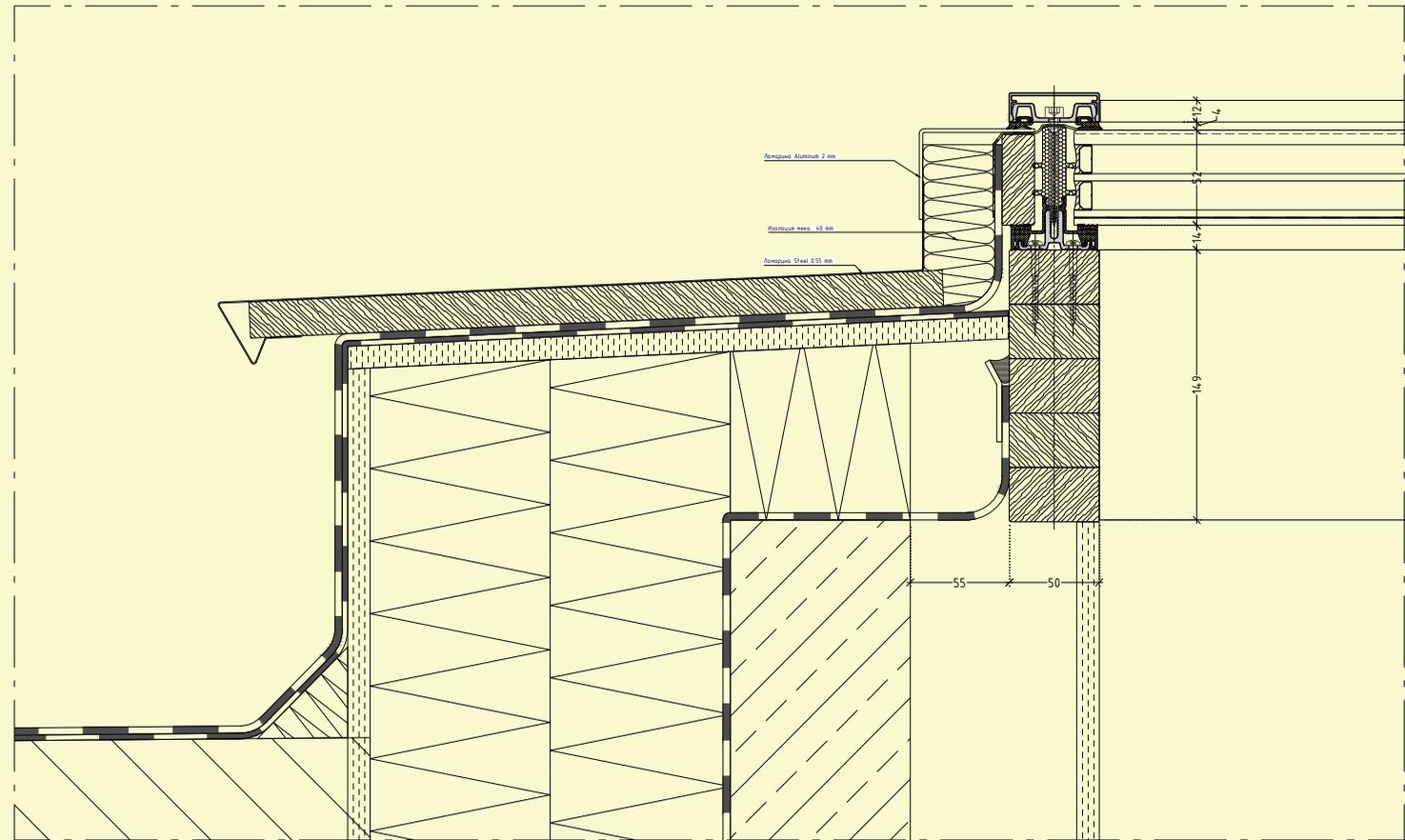
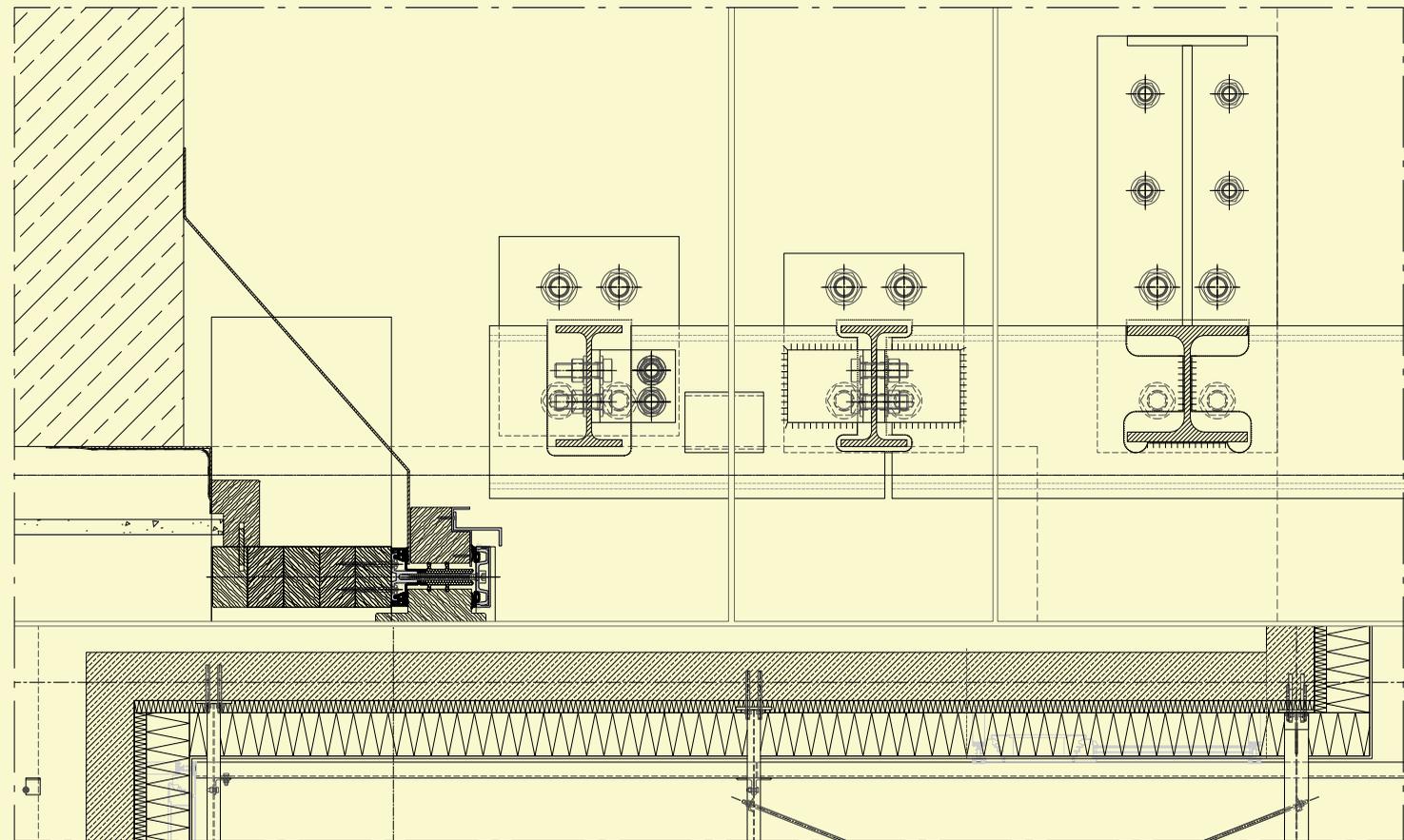
GI HOUSE Passive House

arch. PAVEL TSUIKOV



Location: Bezden, Bulgaria
 Date of completion: 2012
 Area: 1 292 sq. ft.
 Shop Drawings: XX pcs @ ARCH D
 Cut Sheets: XX pcs
 Contractor: Pavel Tsuikov

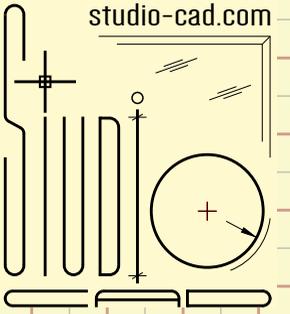




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office@studio-cad.com

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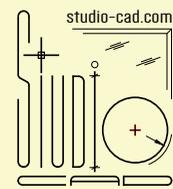
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graphic design by Ivan Pashov

2018
REV 01