



工程指示 / 要求簡箋 ENGINEER INSTRUCTIONS(E.I.)

工程指示編號:	EI- 8436	修改版本:	F
	HK- 1994		
工程編號:	J 861	工程名稱:	己連拿利
收件人:	生統	發件人:	細佬
工程項目:	[幕牆測試] 製作加工圖 (包括玻璃和配件BM)	日期:	06/11/2024

<input type="checkbox"/> 原合約工程包	<input type="checkbox"/> 原合約工程加 / 減賬 QT-	<input type="checkbox"/> 新工程報價 QT-
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信件批核號碼/圖紙參考編號:	批核模具圖紙編號:
客戶指示附件:	管理內部批簽署:

<input type="checkbox"/> 初步鋁料 B.M.	<input type="checkbox"/> 加工拆圖, 然後生產	<input type="checkbox"/> 尺寸表
<input type="checkbox"/> 正式鋁料 B.M.	<input type="checkbox"/> 技術上資料/指示	<input type="checkbox"/> 報價
<input type="checkbox"/> 配件 B.M.	<input type="checkbox"/> 樣辦或貨品說明書	<input type="checkbox"/> 分判合約
<input type="checkbox"/> 其他:		


內容: 給技術部: 請按附頁的[幕牆測試] 製作加工圖 包括計算玻璃鋁料BM 和配件BM CAD檔案在以下位置 J:\midi_sharepoint\Public\to_china\謝永林J861\EI8436F_HK1994_C20241130CAD
完成上列要求日期: 26/11/2024

國內

<input type="checkbox"/> 生產技術總監	<input type="checkbox"/> 連附件	<input checked="" type="checkbox"/> 技術部	<input checked="" type="checkbox"/> 連附件	<input type="checkbox"/> 生產部	<input type="checkbox"/> 連附件
<input type="checkbox"/> 採購部	<input type="checkbox"/> 連附件	<input type="checkbox"/> 生產統籌部	<input type="checkbox"/> 連附件	<input type="checkbox"/> 報關組	<input type="checkbox"/> 連附件
<input type="checkbox"/> 質檢部	<input type="checkbox"/> 連附件	<input type="checkbox"/> 會計部	<input type="checkbox"/> 連附件	<input type="checkbox"/> 機械設計部	<input type="checkbox"/> 連附件
<input type="checkbox"/> 香港辦	<input type="checkbox"/> 連附件	<input type="checkbox"/> 其他:			

香港

<input type="checkbox"/> 行政部	<input type="checkbox"/> 連附件	<input type="checkbox"/> 會計部	<input type="checkbox"/> 連附件	<input type="checkbox"/> 統籌部	<input type="checkbox"/> 連附件	<input type="checkbox"/> 工程部	<input type="checkbox"/> 連附件
<input type="checkbox"/> 採購部	<input type="checkbox"/> 連附件	<input type="checkbox"/> QS部	<input type="checkbox"/> 連附件	<input type="checkbox"/> 地盤管理	<input type="checkbox"/> 連附件	<input type="checkbox"/> 維修部	<input type="checkbox"/> 連附件

*發件人簽署:	*組別成員批核簽署:
傳遞編號: HK-1994	項目經理簽署: 

PROJECT :

PROPOSED RESIDENTIAL
DEVELOPMENT AT
NOS.3-6 GLENEALY, CENTRAL, HONG KONG

1

PERFORMANCE TEST SHOPDRAWING SUBMISSION
FOR TOWER CURTAIN WALL

DATE: 6-Nov.-24

 美特鋁質有限公司
MIDI ALUMINIUM FABRICATOR LTD.

Units 6-8, Sunray Industrial Centre, 1/F
610 Cha Kwo Ling Road, Kowloon
Tel:23489211-4 Fax:(852)27727666

GENERAL NOTES FOR CURTAIN WALL

DESIGN STANDARD & CODES

- BUILDING (CONSTRUCTION) REGULATION, CHAPTER 123
- CODE OF PRACTICE ON WIND EFFECTS IN HONG KONG 2004.
- CODE OF PRACTICE FOR THE STRUCTURAL USE OF STEEL 2011
- CODE OF PRACTICE FOR THE STRUCTURAL USE OF CONCRETE 2013
- CODE OF PRACTICE DEAD AND IMPOSED LOADS 2011
- BS 8118 : 1991 - STRUCTURAL USE OF ALUMINIUM (PARTIAL LOAD FACTOR FOR WIND = 1.4 AS PER APP-053)
- CODE OF PRACTICE FOR THE STRUCTURAL USE OF GLASS 2018
- PNAP APP037 - CURTAIN WALL, WINDOW AND WINDOW WALL SYSTEM

DESIGN LOADS

1. WIND LOAD

ACCORDING TO CODE OF PRACTICE ON WIND EFFECT IN HONG KONG 2004
 HEIGHT ABOVE SITE GROUND LEVEL=(161.12-46.7)=114.42m
 BASIC WIND PRESSURE = 2.915 kPa
 TOPOGRAPHIC FACTOR $S_o = 1.0$

DESIGN WIND PRESSURE FOR CURTAIN WALL / ALUM. CLADDING

PRESSURE COEFFICIENT = +1.0/-1.4
 DESIGN WIND LOAD = +1.0 x 2.915 kPa = + 2.915 kPa (FOR INWARD)
 = -1.4 x 2.915 kPa = - 4.081 kPa (FOR OUTWARD)

DESIGN WIND PRESSURE FOR ALUM FEATURE

PRESSURE COEFFICIENT = +2.0/-2.0
 DESIGN WIND LOAD = +2.0 x 2.915 kPa = + 5.83 kPa (DOWNWARD)
 = -2.0 x 2.915 kPa = - 5.83 kPa (UPWARD)

2. HORIZONTAL IMPOSED LOAD (FOR DOMESTIC USED)

HORIZONTAL IMPOSED LOAD COMPLY WITH CODE OF PRACTICE FOR DEAD AND IMPOSED LOAD 2011 (AREAS WHERE CONGREGATION OF PEOPLE IS NOT EXPECTED)

- LINE LOAD APPLIED AT HEIGHT OF 1.1M ABOVE F.F.L. 0.75kN/m
- UDL APPLIED ON THE INFILL BETWEEN FLOOR AND TOP RAIL: 1 kPa
- CONCENTRATE LOAD APPLIED ON ANY PART ON INFILL BETWEEN FLOOR AND TOP RAIL: 0.5KN

3. DEAD LOAD

DEAD LOAD COMPLY WITH CODE OF PRACTICE FOR DEAD AND IMPOSED LOAD 2011

DENSITY OF GLASS = 26kN/m³
 DENSITY OF ALUMINIUM = 27.2kN/m³
 DENSITY OF STEEL = 77kN/m³

MATERIALS

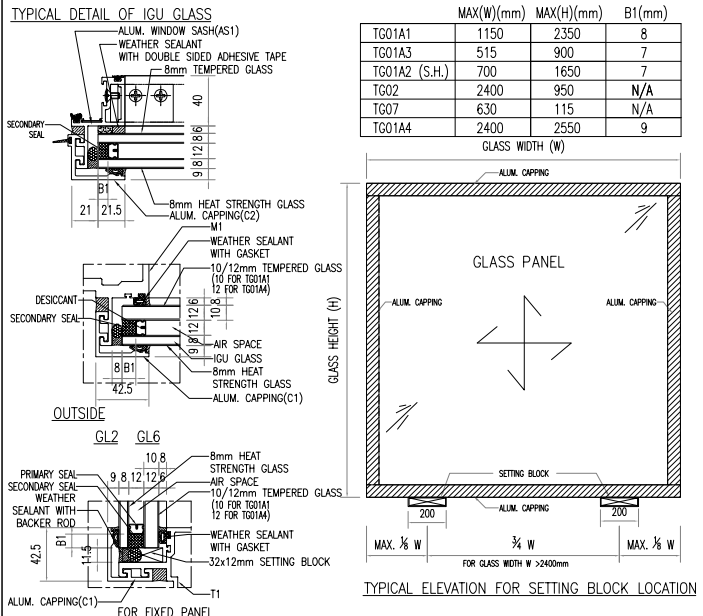
1. GLASS

a) GLASS TYPE FOR CURTAIN WALL

- TG01A1 - 8mm HEAT STRENGTHENED+12mm AIR+10mm TEMPERED IGU GLASS
- TG01A2 - 8mm HEAT STRENGTHENED+12mm AIR+8mm TEMPERED IGU GLASS
- TG01A3 - 8mm HEAT STRENGTHENED WITH (FROSTED) AT SURFACE #2 +12mm AIR+10mm TEMPERED IGU GLASS
- TG01A4 - 8mm HEAT STRENGTHENED+12mm AIR+12mm TEMPERED IGU GLASS
- TG02 - 12mm THK. HEAT STRENGTHENED SPANDREL GLASS
- TG07 - 10mm THK. TEMPERED GLASS BARRIER GLASS 1

*THE LOAD ON EACH GLASS PANEL OF THE IGU HAVE TO BE INCREASED BY 25% TO ACCOUNT FOR THE EFFECT DUE TO TEMPERATURE CHANGES AND ATMOSPHERIC PRESSURE CHANGE. NO COMPOSITE ACTION IS ADOPTED.

GLASS SURFACE TREATMENT REDUCTION FACTOR FOR FROSTED GLASS $\gamma_s = 0.5$



b) DESIGN OF GLASS COMPLY TO CODE OF PRACTICE FOR STRUCTURE USE OF GLASS 2018.

- LOAD DURATION : SHORT-TERM FACTOR = 1
- ULTIMATE DESIGN STRENGTH (TEMPERED) = 80 MPa
- ULTIMATE DESIGN STRENGTH (HEAT STRENGTHENED) = 40 MPa
- YOUNG'S MODULUS = 70,000 N/mm²
- TG07 LOAD DURATION REDUCTION FACTOR = LONG TERM 0.66
- ULTIMATE DESIGN STRENGTH (TEMPERED) = 52.8MPa

c) GLASS MATERIALS SHALL COMPLY TO BS 952:1995.

d) ALL TEMPERED GLASS TO BE 100% HEAT-SOAK TEST TO CODE OF PRACTICE FOR STRUCTURAL USE OF GLASS 2018 & BS EN 14179-1:2016

e) IMPACT TEST TO BE COMPLIED WITH BS EN12600. GLASS 1

2. SEALANT

STRUCTURAL SEALANT

- ALL IN SHOP APPLIED STRUCTURAL SEALANT TO BE 'DOW CORNING' DC983. (BD REF: BD-SS-001) ALLOWABLE STRESS 138kPa
- SECONDARY SEAL FOR IGU SHOULD BE ULTRAGLAZE SSG4400 SILICON STRUCTURAL SEALANT (BD REF : BD-SS-005) ALLOWABLE STRESS = 138kPa

WEATHER SEALANT

ALL WEATHER SEALANT TO BE 'DOW CORNING' DC791. (FOR INFORMATION ONLY)

3. GLAZING MATERIAL

ALL GASKET SHOULD BE DENSE SILICON RUBBER WITH MINIMUM SHORE A HARDNESS OF 65±5° DUROMETER

ALL SETTING BLOCKS SHOULD BE DENSE SILICON RUBBER WITH MINIMUM SHORE A HARDNESS OF 85° ± 5° DUROMETER.

A MIN. LENGTH OF 150mm AND A MIN. WIDTH CORRESPONDING TO THE GLASS THICKNESS AND LOCATED AT GLASS QUARTER POINT.

4. ALUMINIUM ALLOY :

ALL ALUMINIUM EXTRUSIONS TO BE GRADE 6063-T6 & 6061-T6 TO BS EN 755-2:2008 AND BS EN 573-3:2009
 MODULUS OF ELASTICITY = 70000 MPa.

	6063-T6	6061-T6
0.2% PROOF STRENGTH	170 MPa	240 MPa
ULTIMATE TENSILE STRENGTH	215 MPa	260 MPa
LIMITING BENDING STRENGTH	160 MPa	240 MPa
LIMITING TENSILE STRENGTH	175 MPa	260 MPa
LIMITING SHEAR STRENGTH	95 MPa	145 MPa

5. ALUMINIUM SHEET

ALL ALUMINIUM SHEET TO BE GRADE 3003-H14 TO BS EN 485-2 AND BS EN 573-3 : 2009
 MODULUS OF ELASTICITY = 70000 MPa.

	3003-H14
0.2% PROOF STRENGTH	125 MPa
ULTIMATE TENSILE STRENGTH	145 MPa
LIMITING BENDING STRENGTH	125 MPa
LIMITING TENSILE STRENGTH	135 MPa
LIMITING SHEAR STRENGTH	75 MPa

6. ALUMINIUM STUD BOLT

- ALL ALUMINIUM STUD BOLT TO BE GRADE EN-AN 5754-H14 WITH LIMITING STRESS OF STUD PAZ=100N/mm² TO BS EN 1999-1-1:2007+A2:2013. (PAZ=95N/mm² ADOPTED)
- THE ALUMINIUM STUD AND THE BASE PANELS SHALL BE CONNECTED BY DRAWN ARC STUD WELDING COMPLY WITH BS 8118 PART1:1991
- DESIGN AND QUALITY ASSURANCE OF DRAWN ARC STUD WELDING PROCESS SHALL FULLY SATISFY THE REQUIREMENTS OF BS EN ISO 14555:2017
- THE STUD SHALL FOLLOW THE DEFINED PROFILE M6 AS SPECIFIED UNDER TABLE 14 OF BS EN ISO 13918:2008

7. STRUCTURAL STEEL

ALL STRUCTURAL STEEL TO BE GRADE S275J0 (CLASS 1) COMPLY WITH BS EN 10025:2004,
 ALL STEEL HOLLOW SECTION TO BE GRADE S275J0H (CLASS 1) COMPLY WITH BS EN 10210:2006.

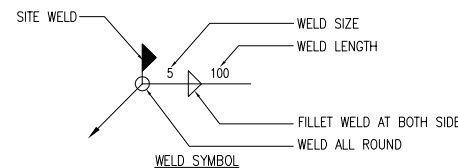
MODULES OF ELASTICITY 205,000 MPa
 DESIGN STRENGTH (T≤16mm) 275 N/mm²
 DESIGN STRENGTH (16mm< T ≤40mm) 265 N/mm²

SURFACE TREATMENT TO BE HOT-DIP GALVANIZED AND SHALL COMPLY WITH BS EN ISO 1461 : 2009

BS EN ISO 1461:2009 (TABLE 3) COATING THICKNESS (MIN):	
STEEL THICKNESS (T)	AVERAGE COATING THICKNESS
T > 6mm	85 um
3mm < T ≤ 6mm	70 um
1.5mm < T ≤ 3mm	55 um
T ≤ 1.5mm	45 um

8. WELDING

- ALL WELDING TO BE COMPLIED WITH BS EN 1011-1 : 2009.
 DESIGN WELD STRENGTH = 220 N/mm²
- UNLESS OTHERWISE INDICATED, ALL WELDS SHALL BE 5mm THICK FILLET WELD.
- ALL WELDING PROCEDURES TO COMPLY WITH BS EN ISO 15614 : PART 2 2005.
- ALL WELD SHOULD BE DONE BY QUALIFIED WELDED TESTED TO BS EN 287-1.
- ALL SITE WELDS SHALL BE RECEIVED 2 COATS OF ZINC CHROMATE PRIMER
- ALL WELD ELECTRODE CLASSIFICATION SHOULD BE E35 TO COP OF STEEL 2011



9. FASTENERS

ALL STAINLESS STEEL SCREW, BOLT & NUT TO BE GRADE A4-70 TO BS EN ISO 3506 : 2009.

A4-70

0.2% PROOF STRENGTH 450 MPa
 ULTIMATE TENSILE STRENGTH 700 MPa

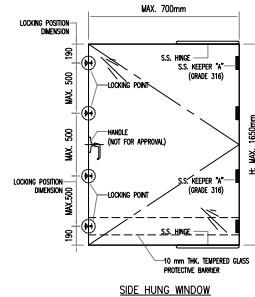
UNLESS OTHERWISE SPECIFIED, ALL SCREWS SHOULD BE M5 AT 300mm C/C.

10. ISOLATION FOR DISSIMILAR MATERIAL

PVC TAPE TO BE APPLIED BETWEEN DISSIMILAR METAL TO PREVENT BIMETALLIC CORROSION TO PD6484
 PVC TAPE TO BE APPLIED BETWEEN METAL AND CONCRETE SURFACE

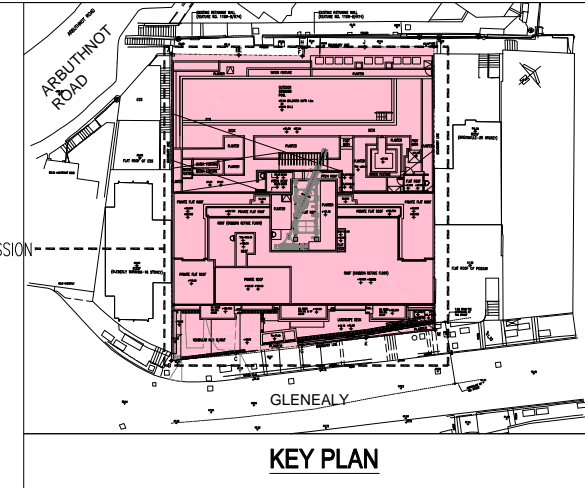
13. DEFLECTION LIMIT

- GLASS WITH 4-SIDE SUPPORT & 2-SIDE SUPPORT SPAN/60
- ALUM MULLION & TRANSOM SPAN/180 OR 20mm, WHICHEVER IS LESSER.



ALL OPENABLE WINDOW DETAILS FOR CURTAIN WALL ARE APPROVED IN CLOSED POSITION
 * LOCK POINT
 F.O.S.=1.8
 MAX FORCE FOR LOCKING POINT = 1 kN

FOR CURTAIN WALL SUBMISSION



NOTE :

- ALL DIMENSIONS ARE IN mm.
- ALL ELEVATIONS ARE VIEWED FROM OUTSIDE.
- ALL DIMENSIONS TO BE VERIFIED ON SITE BEFORE FABRICATION.

LEGEND :

- X1 - DETAIL MARK NO.
- X001 - REFER SHEET NO.

- F.F.L. --- FINISHED FLOOR LEVEL
- S.F.L. --- STRUCTURAL FLOOR LEVEL
- (R) --- REVERSED DETAIL

F. = FIXED GLASS
 S.H. = SIDE HUNG OPENABLE WINDOW

NO.	DATE	REVISED	BY

CLIENT :

MILLION BASE PROPERTIES LIMITED

ARCHITECT :

WONG TUNG & PARTNERS LIMITED
 ARCHITECTS & PLANNERS



STRUCTURAL ENGINEER :

SYW SYW & ASSOCIATES LTD.
 CHARTERED ENGINEERS & AUTHORIZED PERSONS
 邵賢偉建築工程師

MAIN CONTRACTOR :

顯利工程有限公司
HIEN LEE ENGINEERING CO., LTD.

美特鋁質有限公司
MIDI ALUMINIUM FABRICATOR LTD.
 Units 6-8, Sunray Industrial Centre, 1/F
 610 Cha Kwo Ling Road, Kowloon
 Tel:23489211-4 Fax:(852)2727666

JOB NO. : J-861

PROJECT : PROPOSED RESIDENTIAL DEVELOPMENT AT NOS. 3-6 GLENEALY, CENTRAL, HONG KONG

TITLE : GENERAL NOTES FOR FOR CURTAIN WALL

DATE : 06-Nov.-24 SCALE : N.T.S.

DRAWN BY : Asing CHECKED BY :

DWG NO. : J861-SD-PMU-0005 REV. : -

WT stamp_1.bmp

M1 --- ALUMINIUM MULLION GRADE --- 6063 T6	COATING --- PVF2 COATING	M2 --- ALUMINIUM MULLION GRADE --- 6063 T6	COATING --- PVF2 COATING	M3 --- ALUMINIUM MULLION GRADE --- 6063 T6	COATING --- PVF2 COATING	M4 --- ALUMINIUM MULLION GRADE --- 6063 T6	COATING --- PVF2 COATING
MASS PROPERTIES (UNIT) Area (mm ²): 3219.8 Perimeter (mm): 1033.6 Bounding Box - X (mm): -54.8 to 45.2 Bounding Box - Y (mm): -104.9 to 65.1 Centroid - X (mm): 0.0 Centroid - Y (mm): 0.0 Moments of inertia - X (mm ⁴): 8746352.4 Moments of inertia - Y (mm ⁴): 3689710.1 Product of inertia - XY (mm ⁴): 1181993.9 Radii of gyration - X (mm): 52.1 Radii of gyration - Y (mm): 33.9 Principal moments along X-Y (mm ⁴): 900901.9 along [1.0 0.2] Principal moments along Y-X (mm ⁴): 3427080.6 along [-0.2 1.0] Elastic Modulus - Zx (mm ²): 1 / y-max= 83367.3 Elastic Modulus - Zy (mm ²): J / x-max= 67275.7		MASS PROPERTIES (UNIT) Area (mm ²): 2734.8 Perimeter (mm): 1183.8 Bounding Box - X (mm): -50.0 to 50.0 Bounding Box - Y (mm): -92.0 to 78.0 Centroid - X (mm): 0.0 Centroid - Y (mm): 0.0 Moments of inertia - X (mm ⁴): 8304294.5 Moments of inertia - Y (mm ⁴): 3765913.8 Product of inertia - XY (mm ⁴): 0.1 Radii of gyration - X (mm): 55.1 Radii of gyration - Y (mm): 37.1 Principal moments along X-Y (mm ⁴): 8304294.5 along [1.0 0.0] Principal moments along Y-X (mm ⁴): 3765913.8 along [0.0 1.0] Elastic Modulus - Zx (mm ²): 1 / y-max= 90245.5 Elastic Modulus - Zy (mm ²): J / x-max= 75318.3		MASS PROPERTIES (UNIT) Area (mm ²): 2281.9 Perimeter (mm): 932.8 Bounding Box - X (mm): -50.0 to 50.0 Bounding Box - Y (mm): -70.1 to 56.4 Centroid - X (mm): 0.0 Centroid - Y (mm): 0.0 Moments of inertia - X (mm ⁴): 4080358.3 Moments of inertia - Y (mm ⁴): 2861477.6 Product of inertia - XY (mm ⁴): 0.1 Radii of gyration - X (mm): 42.3 Radii of gyration - Y (mm): 35.4 Principal moments along X-Y (mm ⁴): 4080358.3 along [1.0 0.0] Principal moments along Y-X (mm ⁴): 2861477.6 along [0.0 1.0] Elastic Modulus - Zx (mm ²): 1 / y-max= 58188.5 Elastic Modulus - Zy (mm ²): J / x-max= 57229.6		MASS PROPERTIES (UNIT) Area (mm ²): 4079.3 Perimeter (mm): 1676.6 Bounding Box - X (mm): -121.4 to 118.6 Bounding Box - Y (mm): -90.6 to 111.4 Centroid - X (mm): 0.0 Centroid - Y (mm): 0.0 Moments of inertia - X (mm ⁴): 11098304.1 Moments of inertia - Y (mm ⁴): 14182071.6 Product of inertia - XY (mm ⁴): -5785522.9 Radii of gyration - X (mm): 52.2 Radii of gyration - Y (mm): 59.0 Principal moments along X-Y (mm ⁴): 6652727.6 along [0.8 0.6] Principal moments along Y-X (mm ⁴): 18627648.1 along [-0.6 0.8] Elastic Modulus - Zx (mm ²): 1 / y-max= 99649.6 Elastic Modulus - Zy (mm ²): J / x-max= 116845.1	

T1 --- ALUMINIUM TRANSOM GRADE --- 6063 T6	COATING --- PVF2 COATING	T2 --- ALUMINIUM TRANSOM GRADE --- 6063 T6	COATING --- PVF2 COATING	AD1 --- ALUM. GLAZING ADAPTOR GRADE --- 6063 T6	COATING --- PVF2 COATING	AD2 --- ALUM. GLAZING ADAPTOR GRADE --- 6063 T6	COATING --- PVF2 COATING
MASS PROPERTIES (UNIT) Area (mm ²): 2652.8 Perimeter (mm): 1375.7 Bounding Box - X (mm): -84.2 to 84.8 Bounding Box - Y (mm): -57.9 to 42.1 Centroid - X (mm): 0.0 Centroid - Y (mm): 0.0 Moments of inertia - X (mm ⁴): 2287991.4 Moments of inertia - Y (mm ⁴): 7484720.5 Product of inertia - XY (mm ⁴): -798025.7 Radii of gyration - X (mm): 29.4 Radii of gyration - Y (mm): 53.1 Principal moments along X-Y (mm ⁴): 2188205.3 along [1.0 0.1] Principal moments along Y-X (mm ⁴): 7604506.7 along [-0.1 1.0] Elastic Modulus - Zx (mm ²): 1 / y-max= 39544.0 Elastic Modulus - Zy (mm ²): J / x-max= 88289.2		MASS PROPERTIES (UNIT) Area (mm ²): 2243.1 Perimeter (mm): 1153.1 Bounding Box - X (mm): -94.0 to 75.0 Bounding Box - Y (mm): -48.1 to 51.9 Centroid - X (mm): 0.0 Centroid - Y (mm): 0.0 Moments of inertia - X (mm ⁴): 1828714.8 Moments of inertia - Y (mm ⁴): 5703688.4 Product of inertia - XY (mm ⁴): 1328237.5 Radii of gyration - X (mm): 28.6 Radii of gyration - Y (mm): 50.4 Principal moments along X-Y (mm ⁴): 1418054.9 along [1.0 -0.3] Principal moments along Y-X (mm ⁴): 6115328.2 along [0.3 1.0] Elastic Modulus - Zx (mm ²): 1 / y-max= 35269.7 Elastic Modulus - Zy (mm ²): J / x-max= 60659.8		MASS PROPERTIES (UNIT) Area (mm ²): 694.0 Perimeter (mm): 429.2 Bounding Box - X (mm): -25.1 to 31.9 Bounding Box - Y (mm): -43.0 to 33.3 Centroid - X (mm): 0.0 Centroid - Y (mm): 0.0 Moments of inertia - X (mm ⁴): 268384.5 Moments of inertia - Y (mm ⁴): 156888.9 Product of inertia - XY (mm ⁴): 89381.2 Radii of gyration - X (mm): 19.7 Radii of gyration - Y (mm): 15.0 Principal moments along X-Y (mm ⁴): 317978.1 along [0.9 0.5] Principal moments along Y-X (mm ⁴): 107295.2 along [-0.5 0.9] Elastic Modulus - Zx (mm ²): 1 / y-max= 6244.0 Elastic Modulus - Zy (mm ²): J / x-max= 4923.0		MASS PROPERTIES (UNIT) Area (mm ²): 148.8 Perimeter (mm): 144.3 Bounding Box - X (mm): -11.1 to 9.9 Bounding Box - Y (mm): -9.0 to 13.6 Centroid - X (mm): 0.0 Centroid - Y (mm): 0.0 Moments of inertia - X (mm ⁴): 7235.0 Moments of inertia - Y (mm ⁴): 9207.7 Product of inertia - XY (mm ⁴): -47.1 Radii of gyration - X (mm): 7.0 Radii of gyration - Y (mm): 7.9 Principal moments along X-Y (mm ⁴): 7233.8 along [1.0 0.0] Principal moments along Y-X (mm ⁴): 9208.9 along [0.0 1.0] Elastic Modulus - Zx (mm ²): 1 / y-max= 531.5 Elastic Modulus - Zy (mm ²): J / x-max= 832.6	

AS1 --- ALUM. WINDOW SASH GRADE --- 6063 T6	COATING --- PVF2 COATING	AS2 --- ALUM. WINDOW SASH GRADE --- 6063 T6	COATING --- PVF2 COATING	C1 --- ALUMINIUM CAP GRADE --- 6063 T6	COATING --- PVF2 COATING	C2 --- ALUMINIUM CAP GRADE --- 6063 T6	COATING --- PVF2 COATING
MASS PROPERTIES (UNIT) Area (mm ²): 590.0 Perimeter (mm): 394.3 Bounding Box - X (mm): -18.7 to 23.8 Bounding Box - Y (mm): -40.4 to 33.6 Centroid - X (mm): 0.0 Centroid - Y (mm): 0.0 Moments of inertia - X (mm ⁴): 238168.4 Moments of inertia - Y (mm ⁴): 99864.3 Product of inertia - XY (mm ⁴): 110828.7 Radii of gyration - X (mm): 20.1 Radii of gyration - Y (mm): 13.0 Principal moments along X-Y (mm ⁴): 299649.5 along [0.9 0.5] Principal moments along Y-X (mm ⁴): 38383.2 along [-0.5 0.9] Elastic Modulus - Zx (mm ²): 1 / y-max= 5893.8 Elastic Modulus - Zy (mm ²): J / x-max= 4189.2		MASS PROPERTIES (UNIT) Area (mm ²): 593.8 Perimeter (mm): 394.3 Bounding Box - X (mm): -25.8 to 16.7 Bounding Box - Y (mm): -40.4 to 33.6 Centroid - X (mm): 0.0 Centroid - Y (mm): 0.0 Moments of inertia - X (mm ⁴): 238333.8 Moments of inertia - Y (mm ⁴): 72637.9 Product of inertia - XY (mm ⁴): -80370.6 Radii of gyration - X (mm): 20.0 Radii of gyration - Y (mm): 11.1 Principal moments along X-Y (mm ⁴): 270912.1 along [0.9 -0.4] Principal moments along Y-X (mm ⁴): 73821.0 along [0.4 0.9] Elastic Modulus - Zx (mm ²): 1 / y-max= 5904.1 Elastic Modulus - Zy (mm ²): J / x-max= 2815.2		MASS PROPERTIES (UNIT) Area (mm ²): 303.8 Perimeter (mm): 198.6 Bounding Box - X (mm): -12.6 to 29.9 Bounding Box - Y (mm): -12.4 to 23.6 Centroid - X (mm): 0.0 Centroid - Y (mm): 0.0 Moments of inertia - X (mm ⁴): 44186.0 Moments of inertia - Y (mm ⁴): 50152.9 Product of inertia - XY (mm ⁴): 26484.0 Radii of gyration - X (mm): 12.1 Radii of gyration - Y (mm): 12.8 Principal moments along X-Y (mm ⁴): 20518.0 along [0.7 -0.7] Principal moments along Y-X (mm ⁴): 73821.0 along [0.7 0.7] Elastic Modulus - Zx (mm ²): 1 / y-max= 1869.1 Elastic Modulus - Zy (mm ²): J / x-max= 1675.8		MASS PROPERTIES (UNIT) Area (mm ²): 318.2 Perimeter (mm): 214.0 Bounding Box - X (mm): -14.9 to 30.6 Bounding Box - Y (mm): -13.2 to 22.8 Centroid - X (mm): 0.0 Centroid - Y (mm): 0.0 Moments of inertia - X (mm ⁴): 49340.0 Moments of inertia - Y (mm ⁴): 52936.7 Product of inertia - XY (mm ⁴): 30201.3 Radii of gyration - X (mm): 12.5 Radii of gyration - Y (mm): 12.9 Principal moments along X-Y (mm ⁴): 20883.5 along [0.7 -0.7] Principal moments along Y-X (mm ⁴): 81393.1 along [0.7 0.7] Elastic Modulus - Zx (mm ²): 1 / y-max= 2166.1 Elastic Modulus - Zy (mm ²): J / x-max= 1731.6	

NOTE:
 1. ALL DIMENSIONS ARE IN mm.
 2. ALL ELEVATIONS ARE VIEWED FROM OUTSIDE.
 3. ALL DIMENSIONS TO BE VERIFIED ON SITE BEFORE FABRICATION.

LEGEND:
 X1 --- DETAIL MARK NO.
 X001 --- REFER SHEET NO.

1. F.F.L. --- FINISHED FLOOR LEVEL
 2. S.F.L. --- STRUCTURAL FLOOR LEVEL
 3. (R) --- REVERSED DETAIL

NO. DATE REVISED BY

CLIENT: **MILLION BASE PROPERTIES LIMITED**

ARCHITECT: **WONG TUNG & PARTNERS LIMITED**
 ARCHITECTS & PLANNERS

STRUCTURAL ENGINEER: **SYW SYW & ASSOCIATES LTD.**
 CHARTERED ENGINEERS & AUTHORIZED PERSONS
 邵賢偉建築工程師

MAIN CONTRACTOR: **顯利工程有限公司**
 HIEN LEE ENGINEERING CO., LTD.

美特鋁質有限公司
 MIDI ALUMINIUM FABRICATOR LTD.
 Units 6-8, Sunray Industrial Centre, 1/F
 610 Cha Kwo Ling Road, Kowloon
 Tel: 23489211-4 Fax: (852) 27272666

JOB NO.: **J-861**

PROJECT: **PROPOSED RESIDENTIAL DEVELOPMENT AT NOS. 3-6 GLENEALY, CENTRAL, HONG KONG**

TITLE: **SECTION PROPERTIES FOR CURTAIN WALL**

DATE: **06-Nov.-24** SCALE: **1:2(A1)**

DRAWN BY: **Asing** CHECKED BY:

DWG NO.: **J861-SD-PMU-0006** REV.: **--**

WONG TUNG & PARTNERS LTD.

APPROVED

APPROVED AS NOTED

APPROVED AS NOTED & RESUBMIT

RESUBMIT

NO COMMENT

REFER OTHER CONSULTANT'S COMMENTS

Reviewed for compliance with the design intent. Comments made shall apply to all similar conditions & details, not just the one cited. This approval shall not be construed as relieving the contractor of compliance with the contract documents & requirements.

Reviewed By: _____ Date: _____

C13 --- ALUMINIUM GRILLE GRADE --- 6063 T6	COATING --- PVF2 COATING	AH2 --- ALUMINIUM HOLLOW GRADE --- 6063 T6	COATING --- PVF2 COATING	AH3 --- ALUMINIUM HOLLOW GRADE --- 6063 T6	COATING --- PVF2 COATING	AH4 --- ALUMINIUM HOLLOW GRADE --- 6063 T6	COATING --- PVF2 COATING	AH5 --- ALUMINIUM HOLLOW GRADE --- 6063 T6	COATING --- PVF2 COATING
		38x30x2.5mm THK. ALUM. R.H.S.		25x25x2mm THK. ALUM. S.H.S.		25x15x2mm THK. ALUM. R.H.S.		50x25x2mm THK. ALUM. R.H.S.	
MASS PROPERTIES (UNIT)	VALUES	MASS PROPERTIES (UNIT)	VALUES	MASS PROPERTIES (UNIT)	VALUES	MASS PROPERTIES (UNIT)	VALUES	MASS PROPERTIES (UNIT)	VALUES
Area (mm ²):	338.5	Area (mm ²):	315.0	Area (mm ²):	184.0	Area (mm ²):	144.0	Area (mm ²):	284.0
Perimeter (mm):	239.9	Perimeter (mm):	252.0	Perimeter (mm):	184.0	Perimeter (mm):	144.0	Perimeter (mm):	284.0
Bounding Box - X (mm):	-17.5 to 17.5	Bounding Box - X (mm):	-15.0 to 15.0	Bounding Box - X (mm):	-12.5 to 12.5	Bounding Box - X (mm):	-12.5 to 12.5	Bounding Box - X (mm):	-12.5 to 12.5
Bounding Box - Y (mm):	-10.0 to 10.0	Bounding Box - Y (mm):	-19.0 to 19.0	Bounding Box - Y (mm):	-12.5 to 12.5	Bounding Box - Y (mm):	-7.5 to 7.5	Bounding Box - Y (mm):	-25.0 to 25.0
Centroid - X (mm):	0.0	Centroid - X (mm):	0.0	Centroid - X (mm):	0.0	Centroid - X (mm):	0.0	Centroid - X (mm):	0.0
Centroid - Y (mm):	0.0	Centroid - Y (mm):	0.0	Centroid - Y (mm):	0.0	Centroid - Y (mm):	0.0	Centroid - Y (mm):	0.0
Moments of inertia - X (mm ⁴):	16920.7	Moments of inertia - X (mm ⁴):	62311.3	Moments of inertia - X (mm ⁴):	16345.3	Moments of inertia - X (mm ⁴):	4702.0	Moments of inertia - X (mm ⁴):	90078.7
Moments of inertia - Y (mm ⁴):	49416.6	Moments of inertia - Y (mm ⁴):	42531.3	Moments of inertia - Y (mm ⁴):	16345.3	Moments of inertia - Y (mm ⁴):	11042.0	Moments of inertia - Y (mm ⁴):	29603.6
Product of inertia - XY (mm ⁴):	0.0	Product of inertia - XY (mm ⁴):	0.0	Product of inertia - XY (mm ⁴):	0.0	Product of inertia - XY (mm ⁴):	0.0	Product of inertia - XY (mm ⁴):	0.0
Radii of gyration - X (mm):	7.1	Radii of gyration - X (mm):	14.1	Radii of gyration - X (mm):	9.4	Radii of gyration - X (mm):	5.7	Radii of gyration - X (mm):	17.8
Radii of gyration - Y (mm):	12.1	Radii of gyration - Y (mm):	11.6	Radii of gyration - Y (mm):	9.4	Radii of gyration - Y (mm):	8.8	Radii of gyration - Y (mm):	10.2
Principal moments along X-Y (mm ⁴):	16920.7 along [1.0 0.0]	Principal moments along X-Y (mm ⁴):	62311.3 along [1.0 0.0]	Principal moments along X-Y (mm ⁴):	16345.3 along [0.9 0.4]	Principal moments along X-Y (mm ⁴):	4702.0 along [1.0 0.0]	Principal moments along X-Y (mm ⁴):	90078.7 along [1.0 0.0]
Principal moments along Y-X (mm ⁴):	49416.6 along [0.0 1.0]	Principal moments along Y-X (mm ⁴):	42531.3 along [0.0 1.0]	Principal moments along Y-X (mm ⁴):	16345.3 along [-0.4 0.9]	Principal moments along Y-X (mm ⁴):	11042.0 along [0.0 1.0]	Principal moments along Y-X (mm ⁴):	29603.6 along [0.0 1.0]
Elastic Modulus - Zx (mm ²):	1 / y-max= 1692.1	Elastic Modulus - Zx (mm ²):	1 / y-max= 3279.5	Elastic Modulus - Zx (mm ²):	1 / y-max= 1307.6	Elastic Modulus - Zx (mm ²):	1 / y-max= 626.9	Elastic Modulus - Zx (mm ²):	1 / y-max= 3603.1
Elastic Modulus - Zy (mm ²):	J / x-max= 2823.8	Elastic Modulus - Zy (mm ²):	J / x-max= 2835.4	Elastic Modulus - Zy (mm ²):	J / x-max= 1307.6	Elastic Modulus - Zy (mm ²):	J / x-max= 883.4	Elastic Modulus - Zy (mm ²):	J / x-max= 2368.3

NOTE:
1. ALL DIMENSIONS ARE IN mm.
2. ALL ELEVATIONS ARE VIEWED FROM OUTSIDE.
3. ALL DIMENSIONS TO BE VERIFIED ON SITE BEFORE FABRICATION.

LEGEND:
 --- DETAIL MARK NO.
 --- REFER SHEET NO.

1. F.F.L --- FINISHED FLOOR LEVEL
2. S.F.L --- STRUCTURAL FLOOR LEVEL
3. (R) --- REVERSED DETAIL

AH6 --- ALUMINIUM HOLLOW GRADE --- 6063 T6	COATING --- PVF2 COATING	AC1 --- ALUMINIUM CHANNEL GRADE --- 6063 T6	COATING --- ALODINE	AC3 --- ALUMINIUM CHANNEL GRADE --- 6063 T6	COATING --- ALODINE	C4 --- ALUMINIUM CAP GRADE --- 6063 T5	COATING --- PVF2 COATING	C5 --- ALUMINIUM ADAPTER GRADE --- 6063 T5	COATING --- ALODINE
		30x25x2mm THK. ALUM. R.H.S.							
MASS PROPERTIES (UNIT)	VALUES	MASS PROPERTIES (UNIT)	VALUES	MASS PROPERTIES (UNIT)	VALUES	MASS PROPERTIES (UNIT)	VALUES	MASS PROPERTIES (UNIT)	VALUES
Area (mm ²):	204.0	Area (mm ²):	292.3	Area (mm ²):	262.9	Area (mm ²):	170.8	Area (mm ²):	301.8
Perimeter (mm):	204.0	Perimeter (mm):	199.4	Perimeter (mm):	179.7	Perimeter (mm):	271.5	Perimeter (mm):	212.3
Bounding Box - X (mm):	-12.5 to 12.5	Bounding Box - X (mm):	-14.0 to 21.0	Bounding Box - X (mm):	-9.8 to 18.7	Bounding Box - X (mm):	-49.6 to 49.6	Bounding Box - X (mm):	-34.0 to 34.0
Bounding Box - Y (mm):	-15.0 to 15.0	Bounding Box - Y (mm):	-17.0 to 17.0	Bounding Box - Y (mm):	-18.4 to 18.4	Bounding Box - Y (mm):	-9.2 to 2.5	Bounding Box - Y (mm):	-10.5 to 19.3
Centroid - X (mm):	0.0	Centroid - X (mm):	0.0	Centroid - X (mm):	0.0	Centroid - X (mm):	0.0	Centroid - X (mm):	0.0
Centroid - Y (mm):	0.0	Centroid - Y (mm):	0.0	Centroid - Y (mm):	0.0	Centroid - Y (mm):	0.0	Centroid - Y (mm):	0.0
Moments of inertia - X (mm ⁴):	25492.0	Moments of inertia - X (mm ⁴):	45653.6	Moments of inertia - X (mm ⁴):	55841.3	Moments of inertia - X (mm ⁴):	1506.1	Moments of inertia - X (mm ⁴):	21785.6
Moments of inertia - Y (mm ⁴):	18997.0	Moments of inertia - Y (mm ⁴):	37925.0	Moments of inertia - Y (mm ⁴):	21295.1	Moments of inertia - Y (mm ⁴):	138952.7	Moments of inertia - Y (mm ⁴):	148494.0
Product of inertia - XY (mm ⁴):	0.0	Product of inertia - XY (mm ⁴):	0.0	Product of inertia - XY (mm ⁴):	0.0	Product of inertia - XY (mm ⁴):	0.0	Product of inertia - XY (mm ⁴):	0.0
Radii of gyration - X (mm):	11.2	Radii of gyration - X (mm):	12.5	Radii of gyration - X (mm):	14.6	Radii of gyration - X (mm):	3.0	Radii of gyration - X (mm):	8.5
Radii of gyration - Y (mm):	9.7	Radii of gyration - Y (mm):	11.4	Radii of gyration - Y (mm):	11.4	Radii of gyration - Y (mm):	28.5	Radii of gyration - Y (mm):	22.2
Principal moments along X-Y (mm ⁴):	25492.0 along [1.0 0.0]	Principal moments along X-Y (mm ⁴):	45653.6 along [1.0 0.0]	Principal moments along X-Y (mm ⁴):	55841.3 along [1.0 0.0]	Principal moments along X-Y (mm ⁴):	1506.1 along [1.0 0.0]	Principal moments along X-Y (mm ⁴):	21785.6 along [1.0 0.0]
Principal moments along Y-X (mm ⁴):	18997.0 along [0.0 1.0]	Principal moments along Y-X (mm ⁴):	37925.0 along [0.0 1.0]	Principal moments along Y-X (mm ⁴):	21295.1 along [0.0 1.0]	Principal moments along Y-X (mm ⁴):	138952.7 along [0.0 1.0]	Principal moments along Y-X (mm ⁴):	148494.0 along [0.0 1.0]
Elastic Modulus - Zx (mm ²):	1 / y-max= 1699.5	Elastic Modulus - Zx (mm ²):	1 / y-max= 2685.5	Elastic Modulus - Zx (mm ²):	1 / y-max= 3043.1	Elastic Modulus - Zx (mm ²):	1 / y-max= 163.6	Elastic Modulus - Zx (mm ²):	1 / y-max= 1128.8
Elastic Modulus - Zy (mm ²):	J / x-max= 1519.8	Elastic Modulus - Zy (mm ²):	J / x-max= 1805.7	Elastic Modulus - Zy (mm ²):	J / x-max= 1137.1	Elastic Modulus - Zy (mm ²):	J / x-max= 2802.8	Elastic Modulus - Zy (mm ²):	J / x-max= 4366.6

NO.	DATE	REVISED	BY

CLIENT:
MILLION BASE PROPERTIES LIMITED

ARCHITECT:
WONG TUNG & PARTNERS LIMITED
ARCHITECTS & PLANNERS

STRUCTURAL ENGINEER:
SYW | SYW & ASSOCIATES LTD.
CHARTERED ENGINEERS & AUTHORIZED PERSONS
邵賢偉建築工程師

MAIN CONTRACTOR:
顯利工程有限公司
HIEN LEE ENGINEERING CO., LTD.

美特鋁質有限公司
MIDI ALUMINIUM FABRICATOR LTD.
Units 6-8, Sunray Industrial Centre, 1/F
610 Cha Kwo Ling Road, Kowloon
Tel:23489211-4 Fax:(852)2727666

JOB NO.: **J-861**

PROJECT:
PROPOSED RESIDENTIAL DEVELOPMENT AT NOS. 3-6 GLENEALY, CENTRAL, HONG KONG

TITLE:
SECTION PROPERTIES FOR CURTAIN WALL

DATE: **06-Nov.-24** SCALE: **1:2(A1)**
DRAWN BY: **Asing** CHECKED BY:
DWG NO.: **J861-SD-PMU-0007** REV.: **-**

BK1 --- 200x125x18mm THK. ANGLE BRACKET GRADE --- 6061-T6	COATING --- ALODINE	BK2 --- 260x125x20mm THK. ANGLE BRACKET GRADE --- 6061-T6	COATING --- ALODINE
MASS PROPERTIES (UNIT)	VALUES	MASS PROPERTIES (UNIT)	VALUES
Area (mm ²):	5864.3	Area (mm ²):	7721.3
Perimeter (mm):	728.7	Perimeter (mm):	845.4
Bounding Box - X (mm):	-69.6 to 130.4	Bounding Box - X (mm):	-96.9 to 163.0
Bounding Box - Y (mm):	-94.2 to 30.8	Bounding Box - Y (mm):	-96.9 to 28.1
Centroid - X (mm):	0.0	Centroid - X (mm):	0.0
Centroid - Y (mm):	0.0	Centroid - Y (mm):	0.0
Moments of inertia - X (mm ⁴):	7068552.5	Moments of inertia - X (mm ⁴):	8176693.1
Moments of inertia - Y (mm ⁴):	23806213.0	Moments of inertia - Y (mm ⁴):	53679690.0
Product of inertia - XY (mm ⁴):	-7431296.5	Product of inertia - XY (mm ⁴):	-11592446.6
Radii of gyration - X (mm):	34.7	Radii of gyration - X (mm):	32.5
Radii of gyration - Y (mm):	63.7	Radii of gyration - Y (mm):	83.4
Principal moments along X-Y (mm ⁴):	4245354.9 along [0.9 0.4]	Principal moments along X-Y (mm ⁴):	5393597.4 along [1.0 0.2]
Principal moments along Y-X (mm ⁴):	26629410.6 along [-0.4 0.9]	Principal moments along Y-X (mm ⁴):	56462785.7 along [-0.2 1.0]
Elastic Modulus - Zx (mm ²):	1 / y-max= 75020.7	Elastic Modulus - Zx (mm ²):	1 / y-max= 84371.9
Elastic Modulus - Zy (mm ²):	J / x-max= 182581.5	Elastic Modulus - Zy (mm ²):	J / x-max= 329229.8

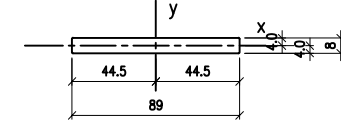
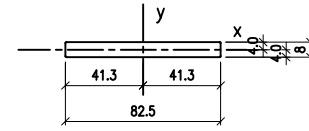
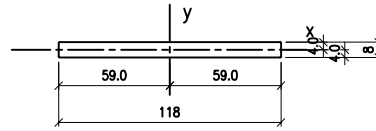
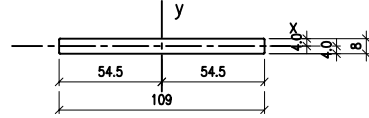
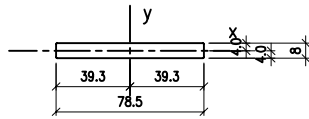
WONG TUNG & PARTNERS LTD.

APPROVED	
APPROVED AS NOTED	
APPROVED AS NOTED & RESUBMIT	
RESUBMIT	
NO COMMENT	
REFER OTHER CONSULTANT'S COMMENTS	

Reviewed for compliance with the design intent. Comments made shall apply to all similar conditions & details, not just the one cited. This approval shall not be construed as relieving the contractor of compliance with the contract documents & requirements.

Reviewed By	Date

AB1 --- 78.5x8mm ALUM. BAR SLEEVE GRADE --- 6061-T6	COATING --- ALODINE	AB2 --- 109x8mm ALUM. BAR. SLEEVE GRADE --- 6061-T6	COATING --- ALODINE	AB3 --- 118x8mm ALUM. BAR. SLEEVE GRADE --- 6061-T6	COATING --- ALODINE	AB4 --- 82.5x8mm ALUM. BAR. SLEEVE GRADE --- 6061-T6	COATING --- ALODINE	AB5 --- 89x8mm ALUM. BAR. SLEEVE GRADE --- 6061-T6	COATING --- ALODINE
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NOTE:
 1. ALL DIMENSIONS ARE IN mm.
 2. ALL ELEVATIONS ARE VIEWED FROM OUTSIDE.
 3. ALL DIMENSIONS TO BE VERIFIED ON SITE BEFORE FABRICATION.

LEGEND:
 (X1) --- DETAIL MARK NO.
 (X001) --- REFER SHEET NO.

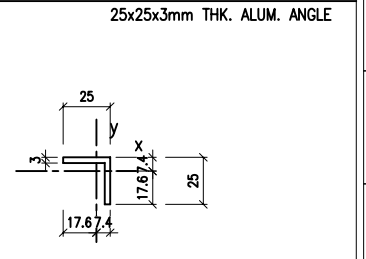
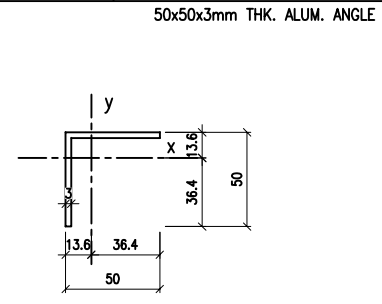
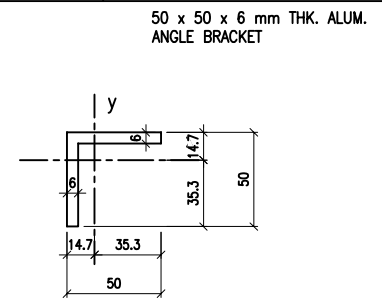
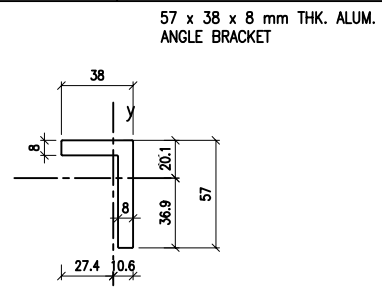
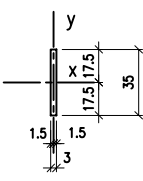
1. F.F.L. --- FINISHED FLOOR LEVEL
 2. S.F.L. --- STRUCTURAL FLOOR LEVEL
 3. (R) --- REVERSED DETAIL

MASS PROPERTIES (UNIT)	VALUES	MASS PROPERTIES (UNIT)	VALUES	MASS PROPERTIES (UNIT)	VALUES	MASS PROPERTIES (UNIT)	VALUES	MASS PROPERTIES (UNIT)	VALUES
Area (mm ²):	627.8	Area (mm ²):	871.8	Area (mm ²):	943.8	Area (mm ²):	659.8	Area (mm ²):	711.5
Perimeter (mm):	172.1	Perimeter (mm):	233.1	Perimeter (mm):	251.1	Perimeter (mm):	180.1	Perimeter (mm):	193.1
Bounding Box - X (mm):	-39.3 to 39.3	Bounding Box - X (mm):	-54.5 to 54.5	Bounding Box - X (mm):	-59.0 to 59.0	Bounding Box - X (mm):	-41.3 to 41.3	Bounding Box - X (mm):	-44.5 to 44.5
Bounding Box - Y (mm):	-4.0 to 4.0	Bounding Box - Y (mm):	-4.0 to 4.0	Bounding Box - Y (mm):	-4.0 to 4.0	Bounding Box - Y (mm):	-4.0 to 4.0	Bounding Box - Y (mm):	-4.0 to 4.0
Centroid - X (mm):	0.0	Centroid - X (mm):	0.0	Centroid - X (mm):	0.0	Centroid - X (mm):	0.0	Centroid - X (mm):	0.0
Centroid - Y (mm):	0.0	Centroid - Y (mm):	0.0	Centroid - Y (mm):	0.0	Centroid - Y (mm):	0.0	Centroid - Y (mm):	0.0
Moments of inertia - X (mm ⁴):	3346.1	Moments of inertia - X (mm ⁴):	4647.4	Moments of inertia - X (mm ⁴):	5031.4	Moments of inertia - X (mm ⁴):	3516.8	Moments of inertia - X (mm ⁴):	3792.4
Moments of inertia - Y (mm ⁴):	322162.4	Moments of inertia - Y (mm ⁴):	862717.9	Moments of inertia - Y (mm ⁴):	1094610.5	Moments of inertia - Y (mm ⁴):	373980.6	Moments of inertia - Y (mm ⁴):	468923.5
Product of inertia - XY (mm ⁴):	0.0	Product of inertia - XY (mm ⁴):	0.0	Product of inertia - XY (mm ⁴):	0.0	Product of inertia - XY (mm ⁴):	0.0	Product of inertia - XY (mm ⁴):	0.0
Radii of gyration - X (mm):	2.3	Radii of gyration - X (mm):	2.3	Radii of gyration - X (mm):	2.3	Radii of gyration - X (mm):	2.3	Radii of gyration - X (mm):	2.3
Radii of gyration - Y (mm):	22.7	Radii of gyration - Y (mm):	31.5	Radii of gyration - Y (mm):	34.1	Radii of gyration - Y (mm):	23.8	Radii of gyration - Y (mm):	25.7
Principal moments along X-Y (mm ⁴):	3346.1 along [1.0 0.0]	Principal moments along X-Y (mm ⁴):	4647.4 along [1.0 0.0]	Principal moments along X-Y (mm ⁴):	5031.4 along [1.0 0.0]	Principal moments along X-Y (mm ⁴):	3516.8 along [1.0 0.0]	Principal moments along X-Y (mm ⁴):	3792.4 along [1.0 0.0]
Principal moments along Y-X (mm ⁴):	322162.4 along [0.0 1.0]	Principal moments along Y-X (mm ⁴):	862717.9 along [0.0 1.0]	Principal moments along Y-X (mm ⁴):	1094610.5 along [0.0 1.0]	Principal moments along Y-X (mm ⁴):	373980.6 along [0.0 1.0]	Principal moments along Y-X (mm ⁴):	468923.5 along [0.0 1.0]
Elastic Modulus - Zx (mm ²):	I / y-max= 836.5	Elastic Modulus - Zx (mm ²):	I / y-max= 1161.9	Elastic Modulus - Zx (mm ²):	I / y-max= 1257.9	Elastic Modulus - Zx (mm ²):	I / y-max= 879.2	Elastic Modulus - Zx (mm ²):	I / y-max= 948.1
Elastic Modulus - Zy (mm ²):	J / x-max= 8208.0	Elastic Modulus - Zy (mm ²):	J / x-max= 15829.7	Elastic Modulus - Zy (mm ²):	J / x-max= 15829.7	Elastic Modulus - Zy (mm ²):	J / x-max= 9066.2	Elastic Modulus - Zy (mm ²):	J / x-max= 10542.3

NO.	DATE	REVISED	BY

CLIENT:
MILLION BASE PROPERTIES LIMITED

AB6 --- 35x3mm ALUM. BAR. GRADE --- 6063-T6	A1 --- ALUMINIUM ANGLE GRADE --- 6061 T6	COATING --- ALODINE	A2 --- ALUMINIUM ANGLE GRADE --- 6063 T6	COATING --- ALODINE	A3 --- ALUMINIUM ANGLE GRADE --- 6063 T6	COATING --- ALODINE	A4 --- ALUMINIUM ANGLE GRADE --- 6063 T6
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ARCHITECT:
WONG TUNG & PARTNERS LIMITED
 ARCHITECTS & PLANNERS

STRUCTURAL ENGINEER:
SYW SYW & ASSOCIATES LTD.
 CHARTERED ENGINEERS & AUTHORIZED PERSONS
 邵賢偉建築工程師

MASS PROPERTIES (UNIT)	VALUES	MASS PROPERTIES (UNIT)	VALUES	MASS PROPERTIES (UNIT)	VALUES	MASS PROPERTIES (UNIT)	VALUES	MASS PROPERTIES (UNIT)	VALUES
Area (mm ²):	105.0	Area (mm ²):	696.0	Area (mm ²):	564.0	Area (mm ²):	291.0	Area (mm ²):	141.0
Perimeter (mm):	76.0	Perimeter (mm):	190.0	Perimeter (mm):	200.0	Perimeter (mm):	200.0	Perimeter (mm):	100.0
Bounding Box - X (mm):	-1.5 to 1.5	Bounding Box - X (mm):	-27.4 to 10.6	Bounding Box - X (mm):	-14.7 to 35.3	Bounding Box - X (mm):	-13.6 to 36.4	Bounding Box - X (mm):	-17.6 to 7.4
Bounding Box - Y (mm):	-17.5 to 17.5	Bounding Box - Y (mm):	-36.9 to 20.1	Bounding Box - Y (mm):	-35.3 to 14.7	Bounding Box - Y (mm):	-36.4 to 13.6	Bounding Box - Y (mm):	-17.6 to 7.4
Centroid - X (mm):	0.0	Centroid - X (mm):	0.0	Centroid - X (mm):	0.0	Centroid - X (mm):	0.0	Centroid - X (mm):	0.0
Centroid - Y (mm):	0.0	Centroid - Y (mm):	0.0	Centroid - Y (mm):	0.0	Centroid - Y (mm):	0.0	Centroid - Y (mm):	0.0
Moments of inertia - X (mm ⁴):	10718.8	Moments of inertia - X (mm ⁴):	219126.1	Moments of inertia - X (mm ⁴):	131256.3	Moments of inertia - X (mm ⁴):	71492.6	Moments of inertia - X (mm ⁴):	8203.6
Moments of inertia - Y (mm ⁴):	78.8	Moments of inertia - Y (mm ⁴):	77196.1	Moments of inertia - Y (mm ⁴):	131257.8	Moments of inertia - Y (mm ⁴):	71493.4	Moments of inertia - Y (mm ⁴):	8203.6
Product of inertia - XY (mm ⁴):	0.0	Product of inertia - XY (mm ⁴):	73195.9	Product of inertia - XY (mm ⁴):	-77233.5	Product of inertia - XY (mm ⁴):	-42699.4	Product of inertia - XY (mm ⁴):	4827.1
Radii of gyration - X (mm):	10.1	Radii of gyration - X (mm):	17.7	Radii of gyration - X (mm):	15.3	Radii of gyration - X (mm):	15.7	Radii of gyration - X (mm):	7.6
Radii of gyration - Y (mm):	0.9	Radii of gyration - Y (mm):	10.5	Radii of gyration - Y (mm):	15.3	Radii of gyration - Y (mm):	15.7	Radii of gyration - Y (mm):	7.6
Principal moments along X-Y (mm ⁴):	10718.8 along [1.0 0.0]	Principal moments along X-Y (mm ⁴):	250110.5 along [0.9 0.4]	Principal moments along X-Y (mm ⁴):	54023.5 along [0.7 0.7]	Principal moments along X-Y (mm ⁴):	28793.6 along [0.7 0.7]	Principal moments along X-Y (mm ⁴):	3376.5 along [0.7 -0.7]
Principal moments along Y-X (mm ⁴):	78.8 along [0.0 1.0]	Principal moments along Y-X (mm ⁴):	46211.8 along [-0.4 0.9]	Principal moments along Y-X (mm ⁴):	208490.5 along [-0.7 0.7]	Principal moments along Y-X (mm ⁴):	114192.4 along [-0.7 0.7]	Principal moments along Y-X (mm ⁴):	13030.8 along [0.7 0.7]
Elastic Modulus - Zx (mm ²):	I / y-max= 612.5	Elastic Modulus - Zx (mm ²):	I / y-max= 5930.6	Elastic Modulus - Zx (mm ²):	I / y-max= 3718.5	Elastic Modulus - Zx (mm ²):	I / y-max= 1964.8	Elastic Modulus - Zx (mm ²):	I / y-max= 464.8
Elastic Modulus - Zy (mm ²):	J / x-max= 52.5	Elastic Modulus - Zy (mm ²):	J / x-max= 2812.4	Elastic Modulus - Zy (mm ²):	J / x-max= 3718.6	Elastic Modulus - Zy (mm ²):	J / x-max= 1964.8	Elastic Modulus - Zy (mm ²):	J / x-max= 464.8

MAIN CONTRACTOR:
顯利工程有限公司
 HIEN LEE ENGINEERING CO., LTD.

美特鋁質有限公司
 MIDI ALUMINIUM FABRICATOR LTD.
 Units 6-8, Sunray Industrial Centre, 1/F
 610 Cha Kwo Ling Road, Kowloon
 Tel:23489211-4 Fax:(852)2727666

JOB NO.: **J-861**

PROJECT:
PROPOSED RESIDENTIAL DEVELOPMENT AT NOS. 3-6 GLENEALY, CENTRAL, HONG KONG

TITLE:
SECTION PROPERTIES FOR CURTAIN WALL

DATE: **06-Nov.-24** SCALE: **1:2(A1)**

DRAWN BY: **Asing** CHECKED BY:

DWG NO.: **J861-SD-PMU-0008** REV.: **-**

WONG TUNG & PARTNERS LTD.	
APPROVED	
APPROVED AS NOTED	
APPROVED AS NOTED & RESUBMIT	
RESUBMIT	
NO COMMENT	
REFER OTHER CONSULTANT'S COMMENTS	
Reviewed for compliance with the design intent. Comments made shall apply to all similar conditions & details, not just the area cited. This approval shall not be construed as relieving the contractor for compliance with the contract documents & requirements.	
Reviewed By	Date

S2 --- 81.5x8mm G.M.S. SLEEVE PLATE GRADE --- S275J0	COATING --- HOT-DIP GALVANIZED	S3 --- 77.5x8mm G.M.S. SLEEVE PLATE GRADE --- S275J0	COATING --- HOT-DIP GALVANIZED	S4 --- 108x8mm G.M.S. SLEEVE PLATE GRADE --- S275J0	COATING --- HOT-DIP GALVANIZED	S5 --- 117x8mm G.M.S. SLEEVE PLATE GRADE --- S275J0	COATING --- HOT-DIP GALVANIZED																																																																																																																																
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Y (mm):</td><td>-58.5 to 58.5</td></tr> <tr><td>Centroid - X (mm) :</td><td>0.0</td></tr> <tr><td>Centroid - Y (mm) :</td><td>0.0</td></tr> <tr><td>Moments of inertia - X (mm⁴) :</td><td>1067742.0</td></tr> <tr><td>Moments of inertia - Y (mm⁴) :</td><td>4992.1</td></tr> <tr><td>Product of inertia - XY (mm⁴) :</td><td>0.0</td></tr> <tr><td>Radii of gyration - X (mm) :</td><td>33.8</td></tr> <tr><td>Radii of gyration - Y (mm) :</td><td>2.3</td></tr> <tr><td>Principal moments along X-Y (mm⁴) :</td><td>1067742.0 along [1.0 0.0]</td></tr> <tr><td>Principal moments along Y-X (mm⁴) :</td><td>4992.1 along [0.0 1.0]</td></tr> <tr><td>Elastic Modulus - Zx (mm³) :</td><td>I / y-max= 18252.0</td></tr> <tr><td>Elastic Modulus - Zy (mm³) :</td><td>J / x-max= 1248.0</td></tr> </tbody> </table>		MASS PROPERTIES (UNIT)	VALUES	Area (mm ²) :	936.0	Perimeter (mm) :	250.0	Bounding Box - X (mm):	-4.0 to 4.0	Bounding Box - Y (mm):	-58.5 to 58.5	Centroid - X (mm) :	0.0	Centroid - Y (mm) :	0.0	Moments of inertia - 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Elastic Modulus - Zy (mm ³) :	J / x-max= 826.7																																																																																																																																						
MASS PROPERTIES (UNIT)	VALUES																																																																																																																																						
Area (mm ²) :	864.0																																																																																																																																						
Perimeter (mm) :	232.0																																																																																																																																						
Bounding Box - X (mm):	-4.0 to 4.0																																																																																																																																						
Bounding Box - Y (mm):	-54.0 to 54.0																																																																																																																																						
Centroid - X (mm) :	0.0																																																																																																																																						
Centroid - Y (mm) :	0.0																																																																																																																																						
Moments of inertia - X (mm ⁴) :	839808.0																																																																																																																																						
Moments of inertia - Y (mm ⁴) :	4608.0																																																																																																																																						
Product of inertia - XY (mm ⁴) :	0.0																																																																																																																																						
Radii of gyration - X (mm) :	31.2																																																																																																																																						
Radii of gyration - Y (mm) :	2.3																																																																																																																																						
Principal moments along X-Y (mm ⁴) :	839808.0 along [1.0 0.0]																																																																																																																																						
Principal moments along Y-X (mm ⁴) :	4608.0 along [0.0 1.0]																																																																																																																																						
Elastic Modulus - Zx (mm ³) :	I / y-max= 15552.0																																																																																																																																						
Elastic Modulus - Zy (mm ³) :	J / x-max= 1152.0																																																																																																																																						
MASS PROPERTIES (UNIT)	VALUES																																																																																																																																						
Area (mm ²) :	936.0																																																																																																																																						
Perimeter (mm) :	250.0																																																																																																																																						
Bounding Box - X (mm):	-4.0 to 4.0																																																																																																																																						
Bounding Box - Y (mm):	-58.5 to 58.5																																																																																																																																						
Centroid - X (mm) :	0.0																																																																																																																																						
Centroid - Y (mm) :	0.0																																																																																																																																						
Moments of inertia - X (mm ⁴) :	1067742.0																																																																																																																																						
Moments of inertia - Y (mm ⁴) :	4992.1																																																																																																																																						
Product of inertia - XY (mm ⁴) :	0.0																																																																																																																																						
Radii of gyration - X (mm) :	33.8																																																																																																																																						
Radii of gyration - Y (mm) :	2.3																																																																																																																																						
Principal moments along X-Y (mm ⁴) :	1067742.0 along [1.0 0.0]																																																																																																																																						
Principal moments along Y-X (mm ⁴) :	4992.1 along [0.0 1.0]																																																																																																																																						
Elastic Modulus - Zx (mm ³) :	I / y-max= 18252.0																																																																																																																																						
Elastic Modulus - Zy (mm ³) :	J / x-max= 1248.0																																																																																																																																						

NOTE :
1. ALL DIMENSIONS ARE IN mm.
2. ALL ELEVATIONS ARE VIEWED FROM OUTSIDE.
3. ALL DIMENSIONS TO BE VERIFIED ON SITE BEFORE FABRICATION.

LEGEND :
X1 --- DETAIL MARK NO.
X001 --- REFER SHEET NO.

1. F.F.L. --- FINISHED FLOOR LEVEL
2. S.F.L. --- STRUCTURAL FLOOR LEVEL
3. (R) --- REVERSED DETAIL

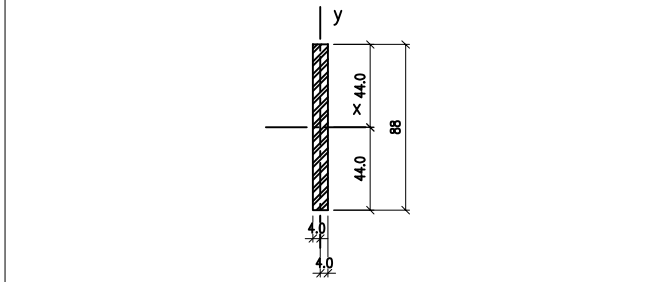
NO.	DATE	REVISED	BY
-----	------	---------	----

CLIENT :
MILLION BASE PROPERTIES LIMITED

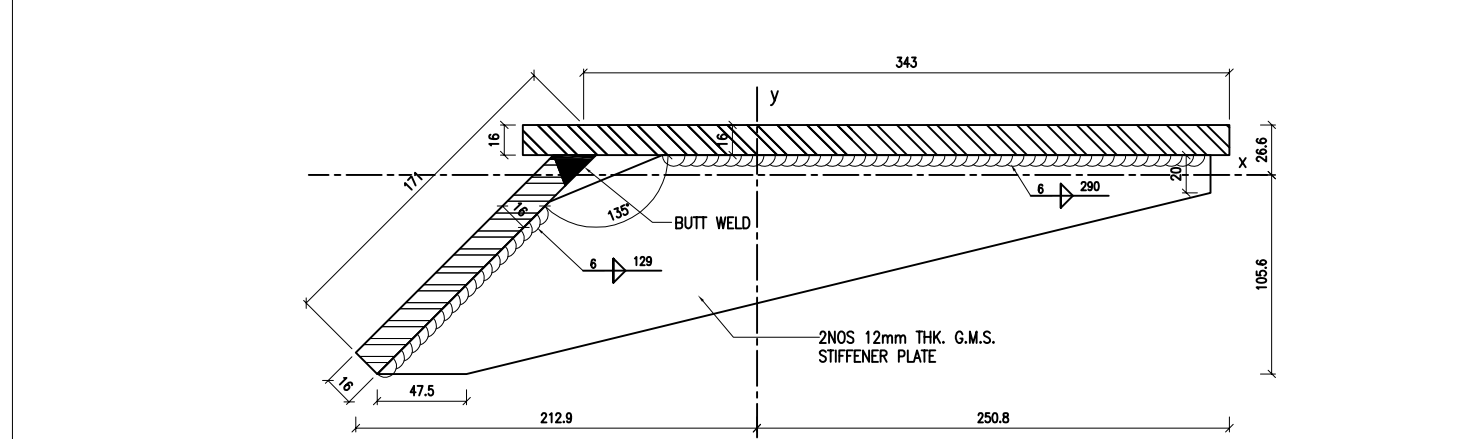
ARCHITECT :
WONG TUNG & PARTNERS LIMITED
ARCHITECTS & PLANNERS

STRUCTURAL ENGINEER :
SYW | SYW & ASSOCIATES LTD.
CHARTERED ENGINEERS & AUTHORIZED PERSONS
邵賢偉建築工程師

S6 --- 88x8mm G.M.S. SLEEVE PLATE GRADE --- S275J0	COATING --- HOT-DIP GALVANIZED	BK4 --- 171x343x16mm THK. G.M.S. BUILD-UP ANGLE BRACKET (L=220mm) GRADE --- S275J0	COATING --- HOT-DIP GALVANIZED
---	--------------------------------	---	--------------------------------



MASS PROPERTIES (UNIT)	VALUES
Area (mm ²) :	704.0
Perimeter (mm) :	192.0
Bounding Box - X (mm):	-4.0 to 4.0
Bounding Box - Y (mm):	-44.0 to 44.0
Centroid - X (mm) :	0.0
Centroid - Y (mm) :	0.0
Moments of inertia - X (mm ⁴) :	454314.7
Moments of inertia - Y (mm ⁴) :	3754.6
Product of inertia - XY (mm ⁴) :	0.0
Radii of gyration - X (mm) :	25.4
Radii of gyration - Y (mm) :	2.3
Principal moments along X-Y (mm ⁴) :	454314.7 along [1.0 0.0]
Principal moments along Y-X (mm ⁴) :	3754.6 along [0.0 1.0]
Elastic Modulus - Zx (mm ³) :	I / y-max= 10325.3
Elastic Modulus - Zy (mm ³) :	J / x-max= 938.7



MASS PROPERTIES (UNIT)	VALUES
Area (mm ²) :	8500.8
Perimeter (mm) :	1088.0
Bounding Box - X (mm):	-212.9 to 250.8
Bounding Box - Y (mm):	-105.6 to 26.6
Centroid - X (mm) :	0.0
Centroid - Y (mm) :	0.0
Moments of inertia - X (mm ⁴) :	9761417.5
Moments of inertia - Y (mm ⁴) :	154651080.5
Product of inertia - XY (mm ⁴) :	-26577506.3
Radii of gyration - X (mm) :	33.9
Radii of gyration - Y (mm) :	134.9
Principal moments along X-Y (mm ⁴) :	5040081.2 along [1.0 0.2]
Principal moments along Y-X (mm ⁴) :	159372416.8 along [-0.2 1.0]
Elastic Modulus - Zx (mm ³) :	I / y-max= 92478.6
Elastic Modulus - Zy (mm ³) :	J / x-max= 616627.0

MAIN CONTRACTOR :
顯利工程有限公司
HIEN LEE ENGINEERING CO., LTD.

美特鋁質有限公司
MIDI ALUMINIUM FABRICATOR LTD.
Units 6-8, Sunray Industrial Centre, 1/F
610 Cha Kwo Ling Road, Kowloon
Tel:23489211-4 Fax:(852)2727666

JOB NO. : **J-861**

PROJECT :
PROPOSED RESIDENTIAL DEVELOPMENT AT NOS. 3-6 GLENEALY, CENTRAL, HONG KONG

TITLE :
SECTION PROPERTIES FOR CURTAIN WALL

DATE : **06-Nov.-24** SCALE : **1:2(A1)**

DRAWN BY : **Asing** CHECKED BY :

DWG NO. : **J861-SD-PMU-0009** REV. : **-**

WONG TUNG & PARTNERS LTD.

APPROVED	
APPROVED AS NOTED	
APPROVED AS NOTED & RESUBMIT	
RESUBMIT	
NO COMMENT	
REFER OTHER CONSULTANT'S COMMENTS	

Reviewed for compliance with the design intent. Comments made shall apply to all similar conditions & details, not just the area cited.
The approval shall not be construed as relieving the contractor of compliance with the contract documents & requirements.

Reviewed By _____ Date _____

NOTE:
 1. ALL DIMENSIONS ARE IN mm.
 2. ALL ELEVATIONS ARE VIEWED FROM OUTSIDE.
 3. ALL DIMENSIONS TO BE VERIFIED ON SITE BEFORE FABRICATION.

LEGEND:
 (X1) --- DETAIL MARK NO.
 (X001) --- REFER SHEET NO.
 1. F.F.L. --- FINISHED FLOOR LEVEL
 2. S.F.L. --- STRUCTURAL FLOOR LEVEL
 3. (R) --- REVERSED DETAIL

NO.	DATE	REVISED	BY
-----	------	---------	----

CLIENT :
MILLION BASE PROPERTIES LIMITED

ARCHITECT :
WONG TUNG & PARTNERS LIMITED
 ARCHITECTS & PLANNERS

STRUCTURAL ENGINEER :
SYW | SYW & ASSOCIATES LTD.
REGISTERED ENGINEERS & AUTHORIZED PERSONS
邵賢偉建築工程師

MAIN CONTRACTOR :
顯利工程有限公司
HIEN LEE ENGINEERING CO., LTD.

美特鋁質有限公司
MIDI ALUMINIUM FABRICATOR LTD.
 Units 6-8, Sunray Industrial Centre, 1/F
 610 Cha Kwo Ling Road, Kowloon
 Tel: 23489211-4 Fax: (852) 27727666

JOB NO. : J-861
 PROJECT :
 PROPOSED RESIDENTIAL
 DEVELOPMENT AT NOS. 3-6
 GLENEALY, CENTRAL, HONG KONG

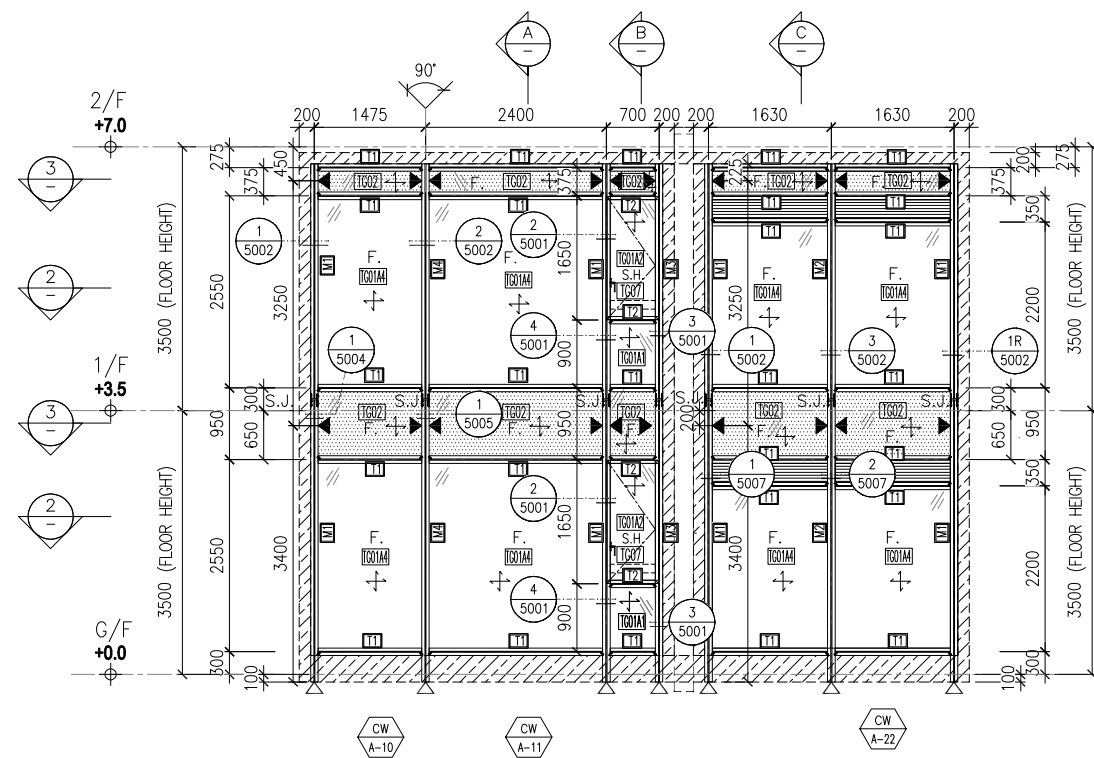
TITLE :
 PART ELEVATION
 FOR CURTAIN WALL

DATE : 06-Nov.-24 SCALE : 1:50(A1)

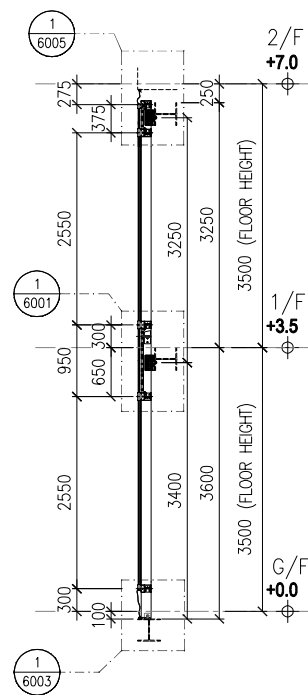
DRAWN BY : Asing CHECKED BY :

DWG NO. : J861-SD-PMU-3001 REV. : -

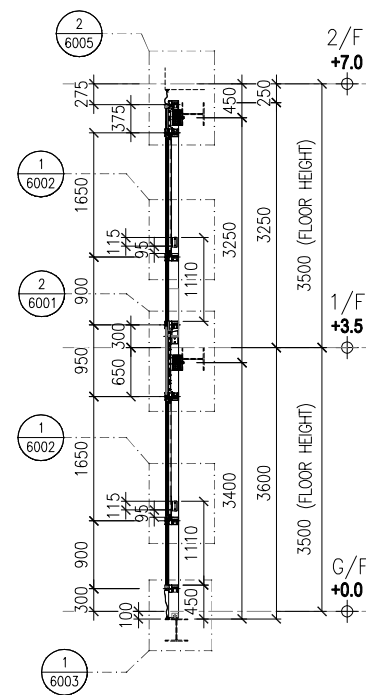
WONG TUNG & PARTNERS LTD.	
APPROVED	
APPROVED AS NOTED	
APPROVED AS NOTED & RESUBMIT	
RESUBMIT	
NO COMMENT	
REFER OTHER CONSULTANT'S COMMENTS	
<small>Reviewed for compliance with the design intent. Comments made shall apply to all similar conditions & details, not just the area cited. The approval shall not be construed as relieving the contractor for compliance with the contract documents & requirements.</small>	
Reviewed By	Date



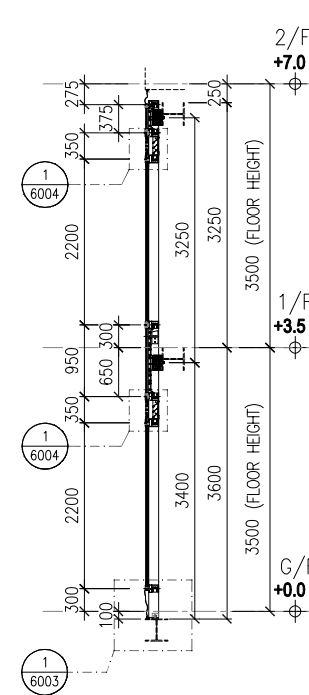
1 PART ELEVATION FOR CURTAIN WALL



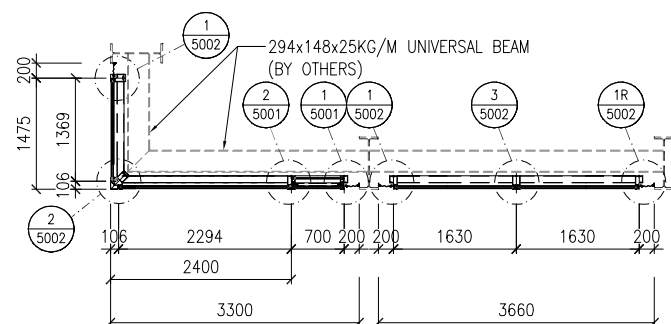
A TYPICAL SECTION FOR CURTAIN WALL



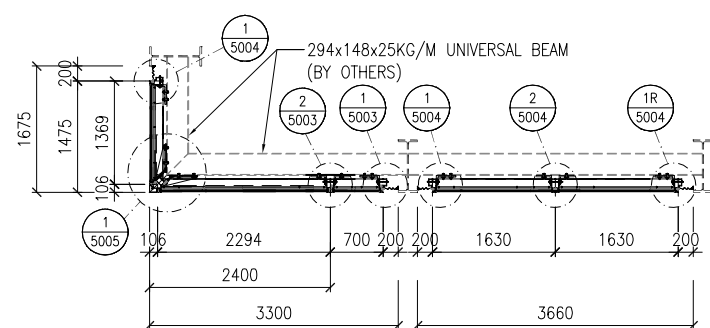
B TYPICAL SECTION FOR CURTAIN WALL



C TYPICAL SECTION FOR CURTAIN WALL

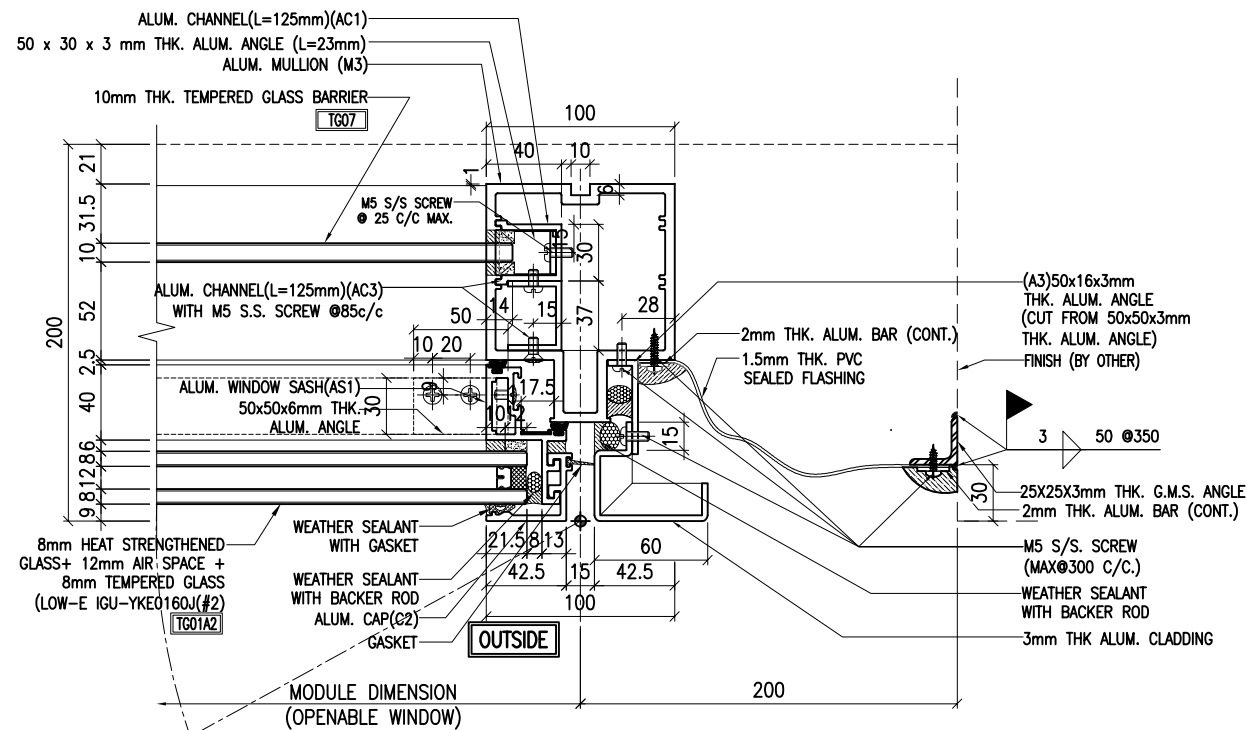


2 PART PLAN FOR CURTAIN WALL

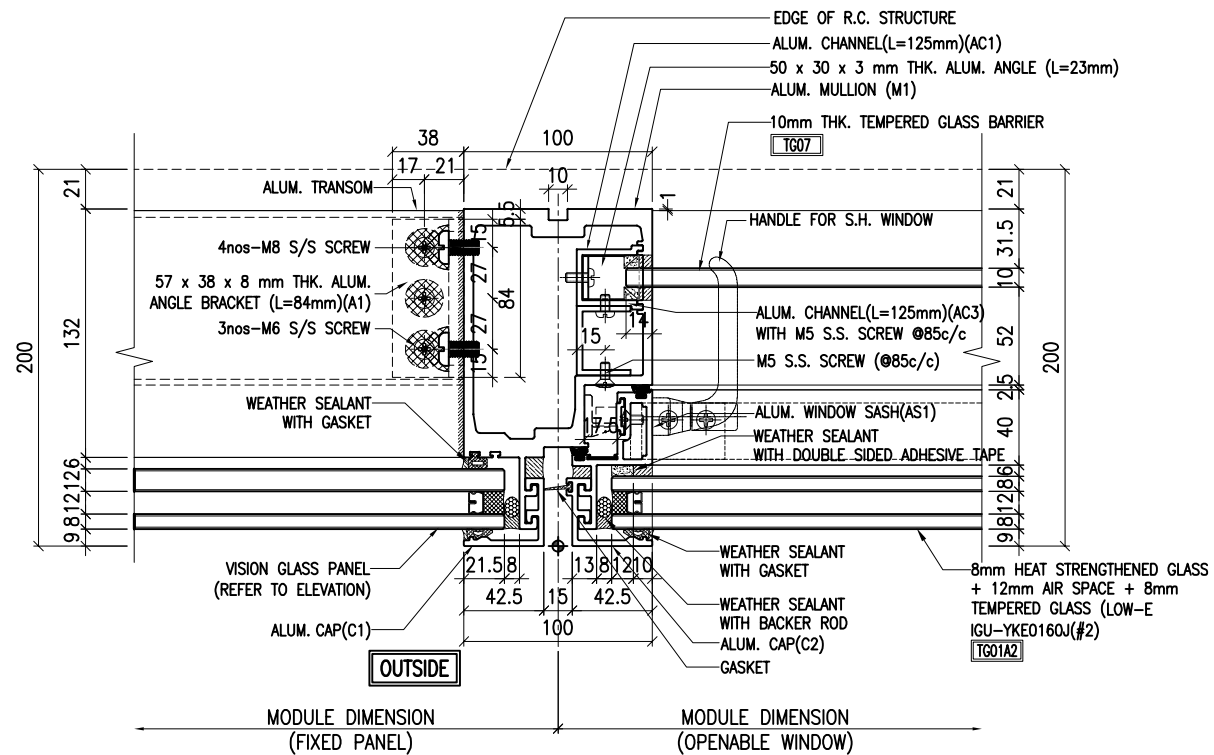


3 PART PLAN FOR CURTAIN WALL

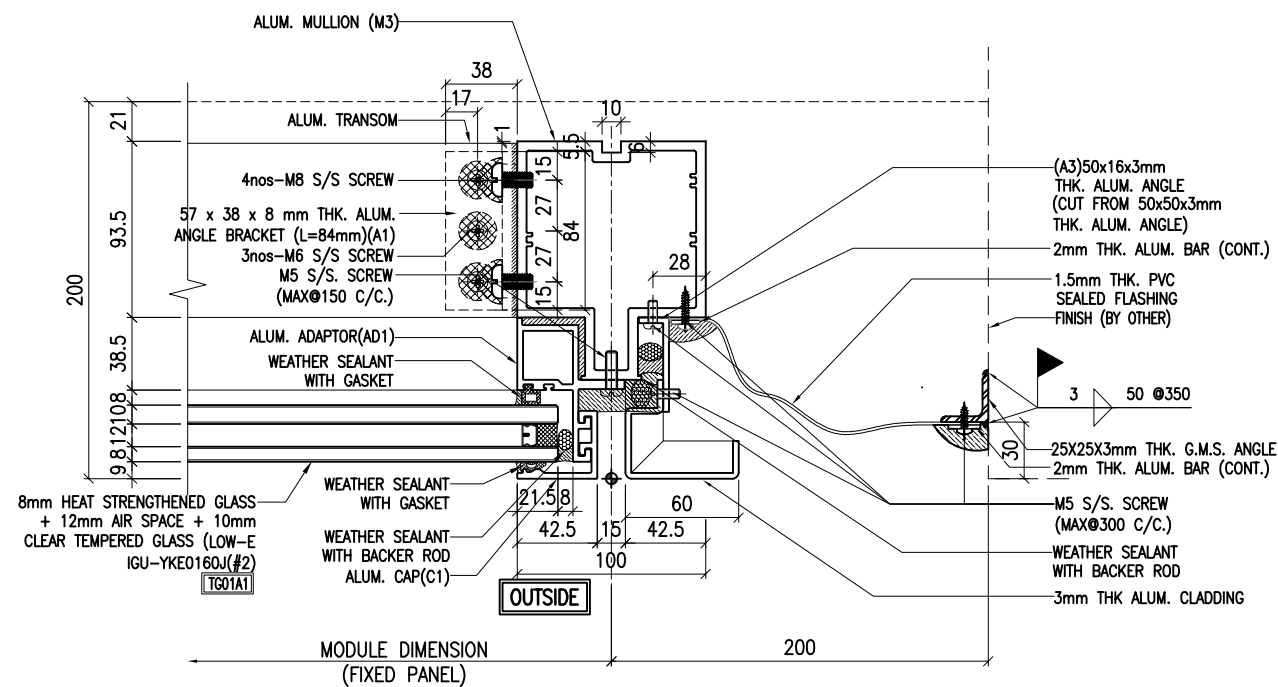
- LEGEND :
- TG01A1 8mm HEAT STRENGTHENED GLASS + 12mm AIR SPACE + 10mm TEMPERED GLASS (IGU)
 - TG01A2 8mm HEAT STRENGTHENED GLASS + 12mm AIR SPACE + 8mm TEMPERED GLASS (IGU)
 - TG01A4 8mm HEAT STRENGTHENED GLASS + 12mm AIR SPACE + 12mm TEMPERED GLASS (IGU)
 - TG02 12mm HEAT STRENGTHENED GLASS W/2mm THK. ALUM. BACK PANEL
 - TG07 10mm CLEAR TEMPERED GLASS
 - 1.5mm THK. PVC SEALED FLASHING
 - ◀ - SUPPORT POINT (WIND LOAD + DEAD LOAD)
 - ◁ - SUPPORT POINT (WIND LOAD)
 - S.J. - STACK JOINT REF TO J861-SD-PMU-5006



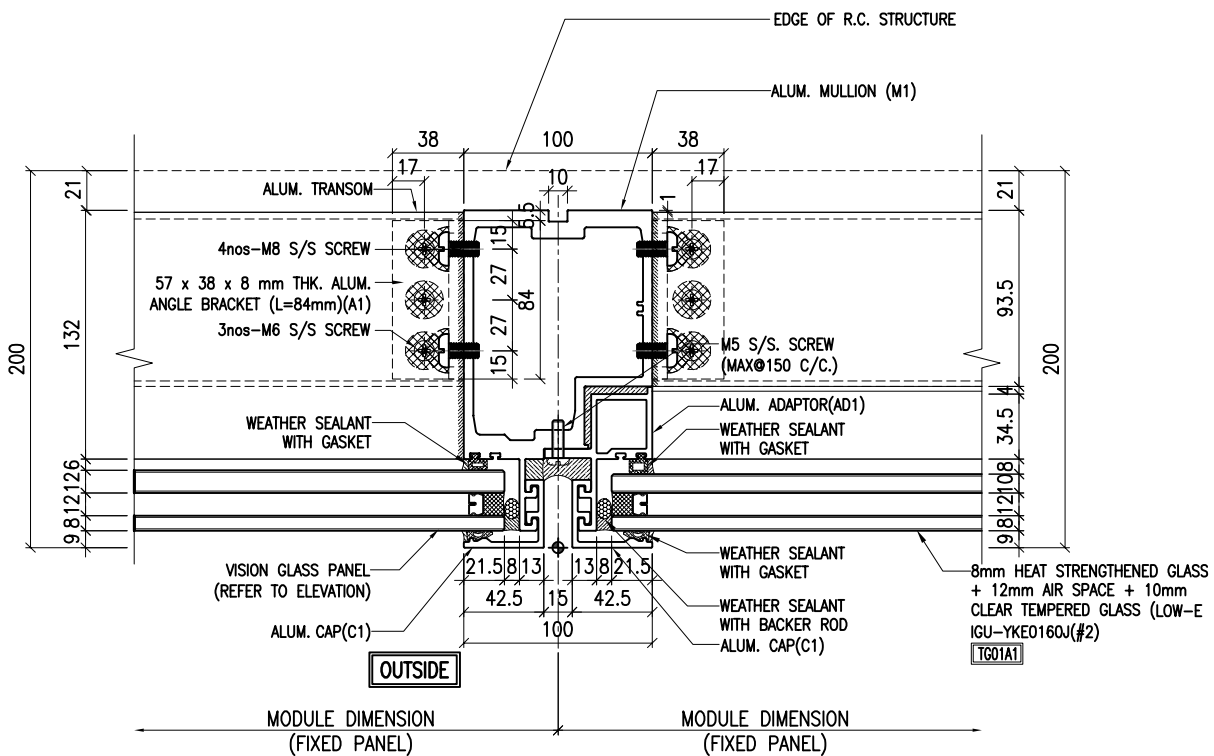
1 TYPICAL MULLION DETAIL
5001 CURTAIN WALL



2 TYPICAL MULLION DETAIL
5001 CURTAIN WALL



3 TYPICAL MULLION DETAIL
5001 CURTAIN WALL



4 TYPICAL MULLION DETAIL
5001 CURTAIN WALL

NOTE:
1. ALL DIMENSIONS ARE IN mm.
2. ALL ELEVATIONS ARE VIEWED FROM OUTSIDE.
3. ALL DIMENSIONS TO BE VERIFIED ON SITE BEFORE FABRICATION.

LEGEND:
X1 - DETAIL MARK NO.
X001 - REFER SHEET NO.
1. F.F.L. --- FINISHED FLOOR LEVEL
2. S.F.L. --- STRUCTURAL FLOOR LEVEL
3. (R) --- REVERSED DETAIL

NO.	DATE	REVISED	BY

CLIENT :
MILLION BASE PROPERTIES LIMITED

ARCHITECT :
WONG TUNG & PARTNERS LIMITED
ARCHITECTS & PLANNERS

STRUCTURAL ENGINEER :
SYW SYW & ASSOCIATES LTD.
REGISTERED ENGINEERS & AUTHORIZED PERSONS
邵賢偉建築工程師

MAIN CONTRACTOR :
顯利工程有限公司
HIEN LEE ENGINEERING CO., LTD.

美特鋁質有限公司
MIDI ALUMINIUM FABRICATOR LTD.
Units 6-8, Sunray Industrial Centre, 1/F
610 Cha Kwo Ling Road, Kowloon
Tel:23489211-4 Fax:(852)2727666

JOB NO. : J-861

PROJECT :
PROPOSED RESIDENTIAL DEVELOPMENT AT NOS. 3-6 GLENEALY, CENTRAL, HONG KONG

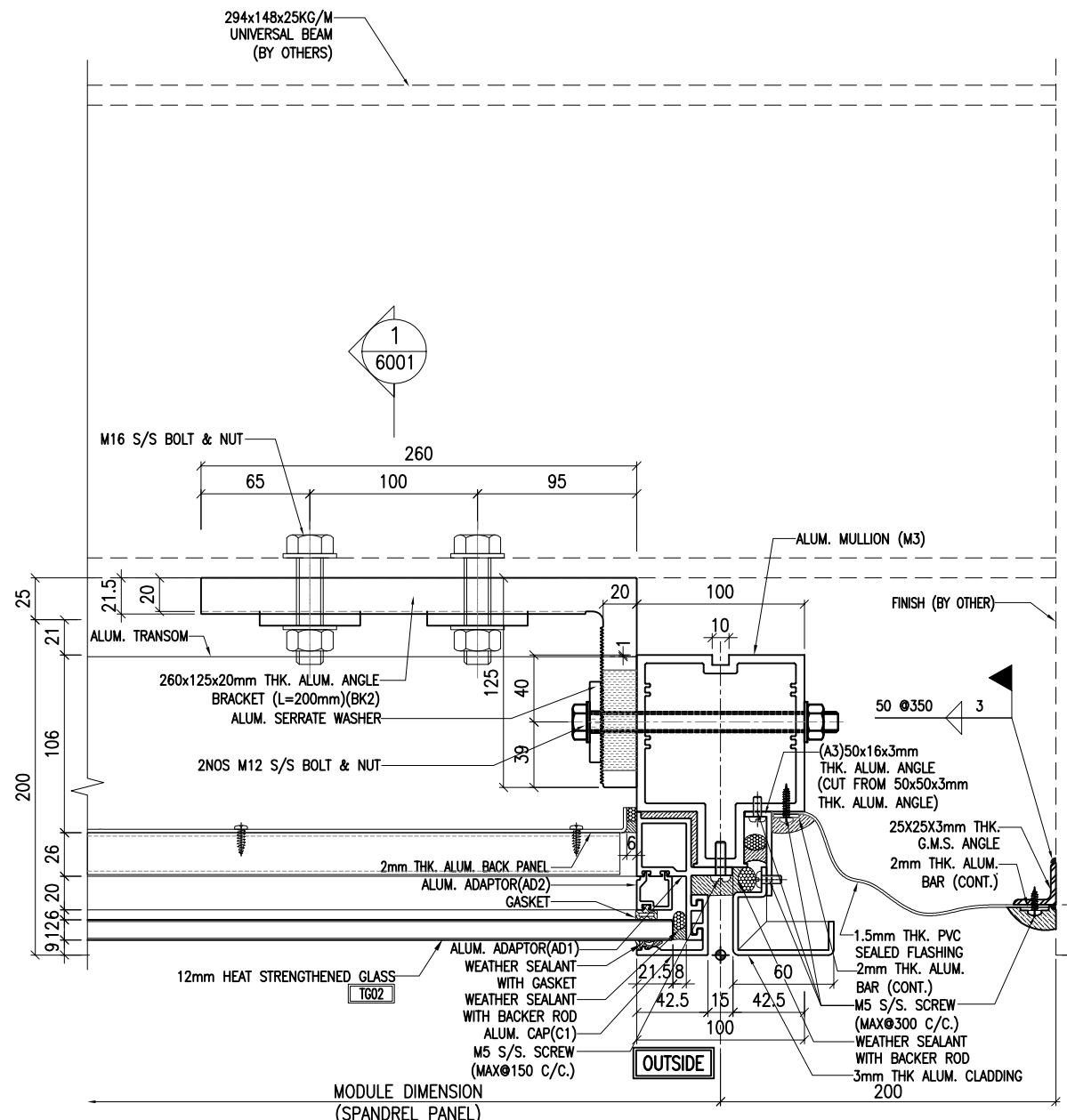
TITLE :
TYPICAL MULLION DETAIL FOR CURTAIN WALL

DATE : 06-Nov.-24 SCALE : 1:2 (A1)

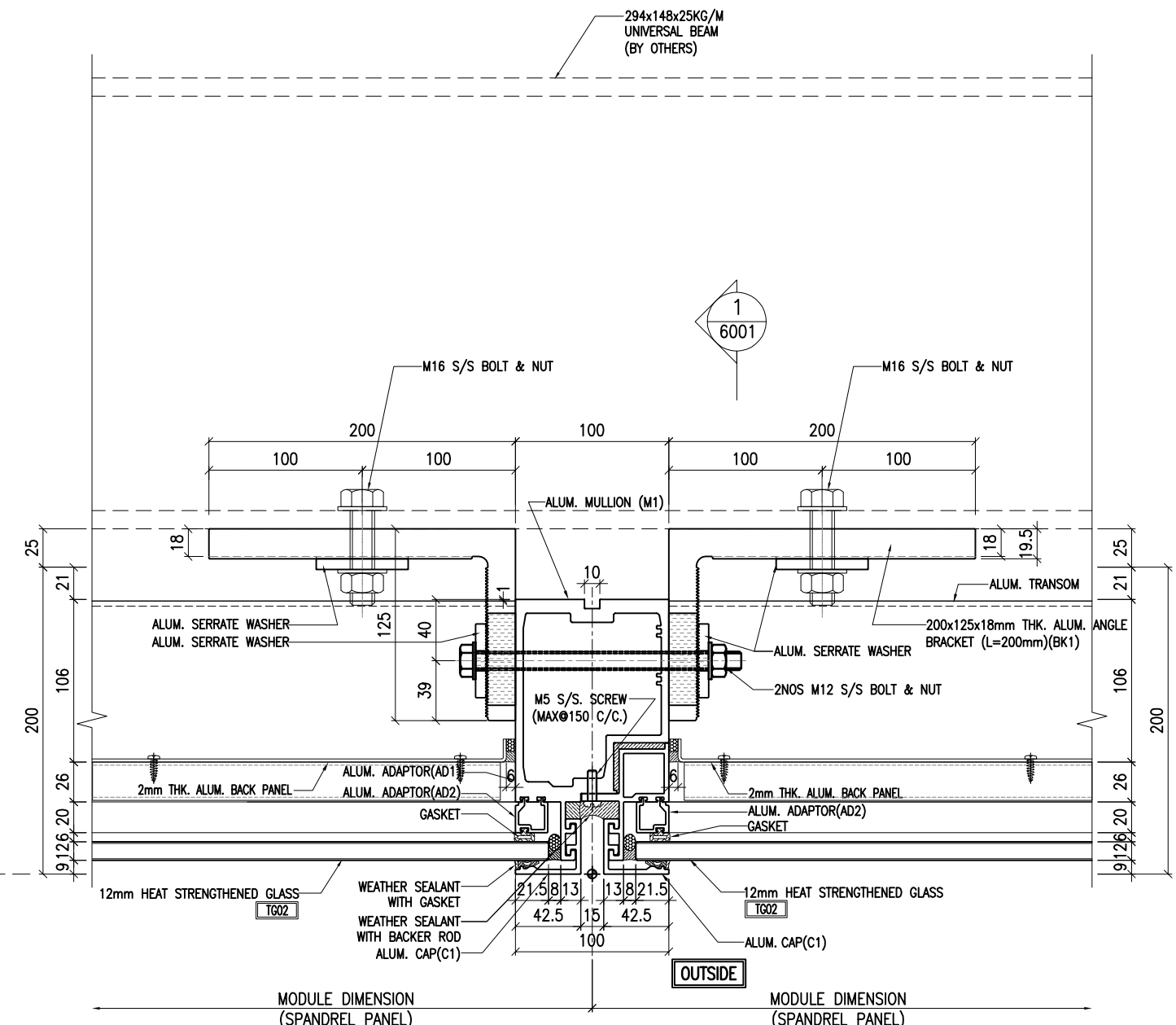
DRAWN BY : Asing CHECKED BY :

DWG NO. : J861-SD-PMU-5001 REV. : -

WONG TUNG & PARTNERS LTD.	
APPROVED	
APPROVED AS NOTED	
APPROVED AS NOTED & RESUBMIT	
RESUBMIT	
NO COMMENT	
REFER OTHER CONSULTANT'S COMMENTS	
Reviewed for compliance with the design intent. Comments made shall apply to all similar conditions & details, not just the area cited. The approval shall not be construed as relieving the contractor of compliance with the contract documents & requirements.	
Reviewed By	Date



1 TYPICAL MULLION DETAIL
5003 CURTAIN WALL



2 TYPICAL MULLION DETAIL
5003 CURTAIN WALL

NOTE:
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 3. ALL DIMENSIONS TO BE VERIFIED ON SITE BEFORE FABRICATION.

LEGEND:
 (X1) --- DETAIL MARK NO.
 (X001) --- REFER SHEET NO.

1. F.F.L --- FINISHED FLOOR LEVEL
 2. S.F.L --- STRUCTURAL FLOOR LEVEL
 3. (R) --- REVERSED DETAIL

NO.	DATE	REVISED	BY

CLIENT :
MILLION BASE PROPERTIES LIMITED

ARCHITECT :
WONG TUNG & PARTNERS LIMITED
 ARCHITECTS & PLANNERS

STRUCTURAL ENGINEER :
SYW SYW & ASSOCIATES LTD.
 邵賢偉建築工程師

MAIN CONTRACTOR :
顯利工程有限公司
HIEN LEE ENGINEERING CO., LTD.

美特鋁質有限公司
MIDI ALUMINIUM FABRICATOR LTD.
 Units 6-8, Sunray Industrial Centre, 1/F
 610 Cha Kwo Ling Road, Kowloon
 Tel:23489211-4 Fax:(852)2727666

JOB NO. : J-861

PROJECT :
 PROPOSED RESIDENTIAL
 DEVELOPMENT AT NOS. 3-6
 GLENEALY, CENTRAL, HONG KONG

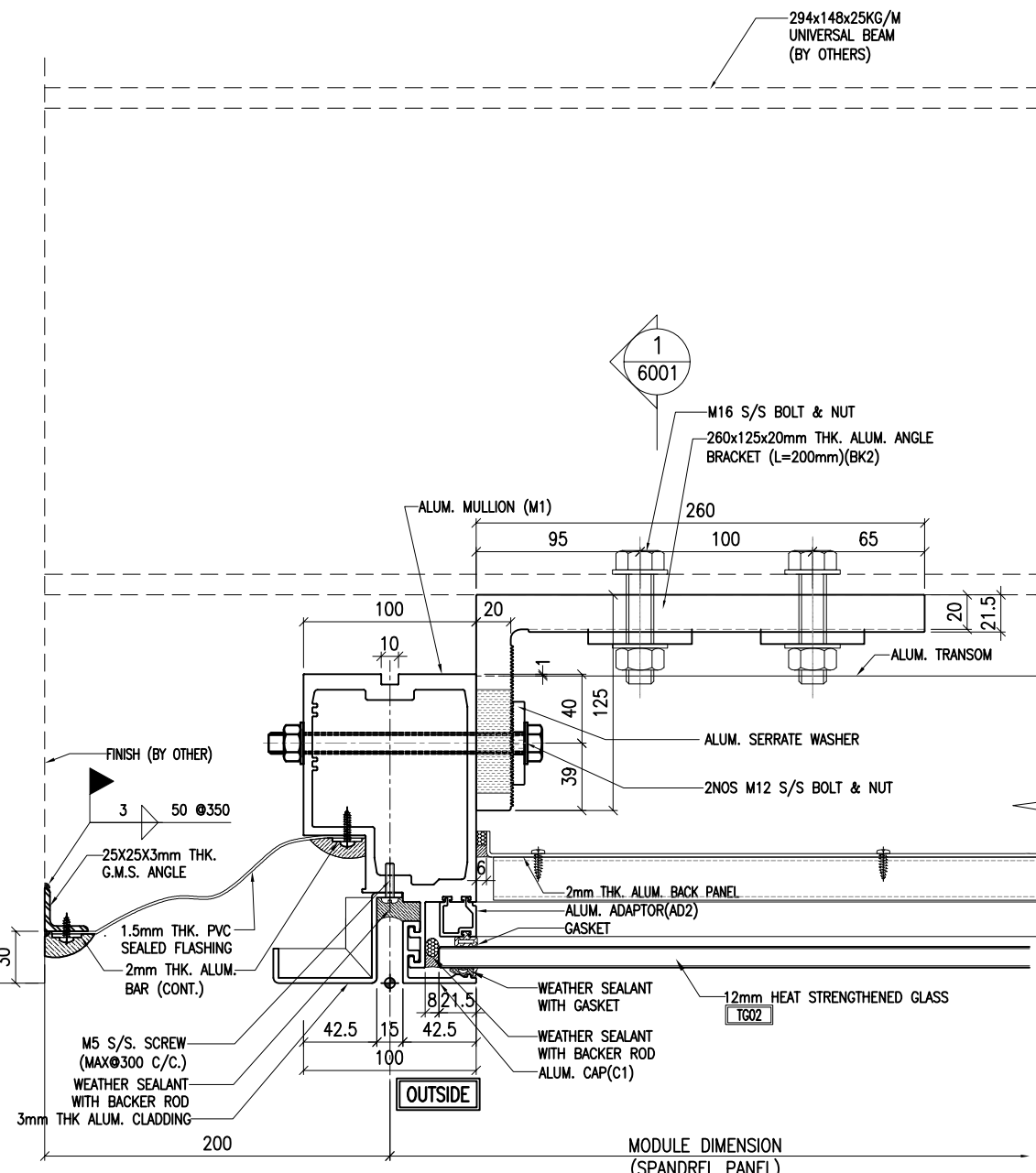
TITLE :
 TYPICAL MULLION DETAIL
 FOR CURTAIN WALL

DATE : 06-Nov.-24 SCALE : 1:2 (A1)

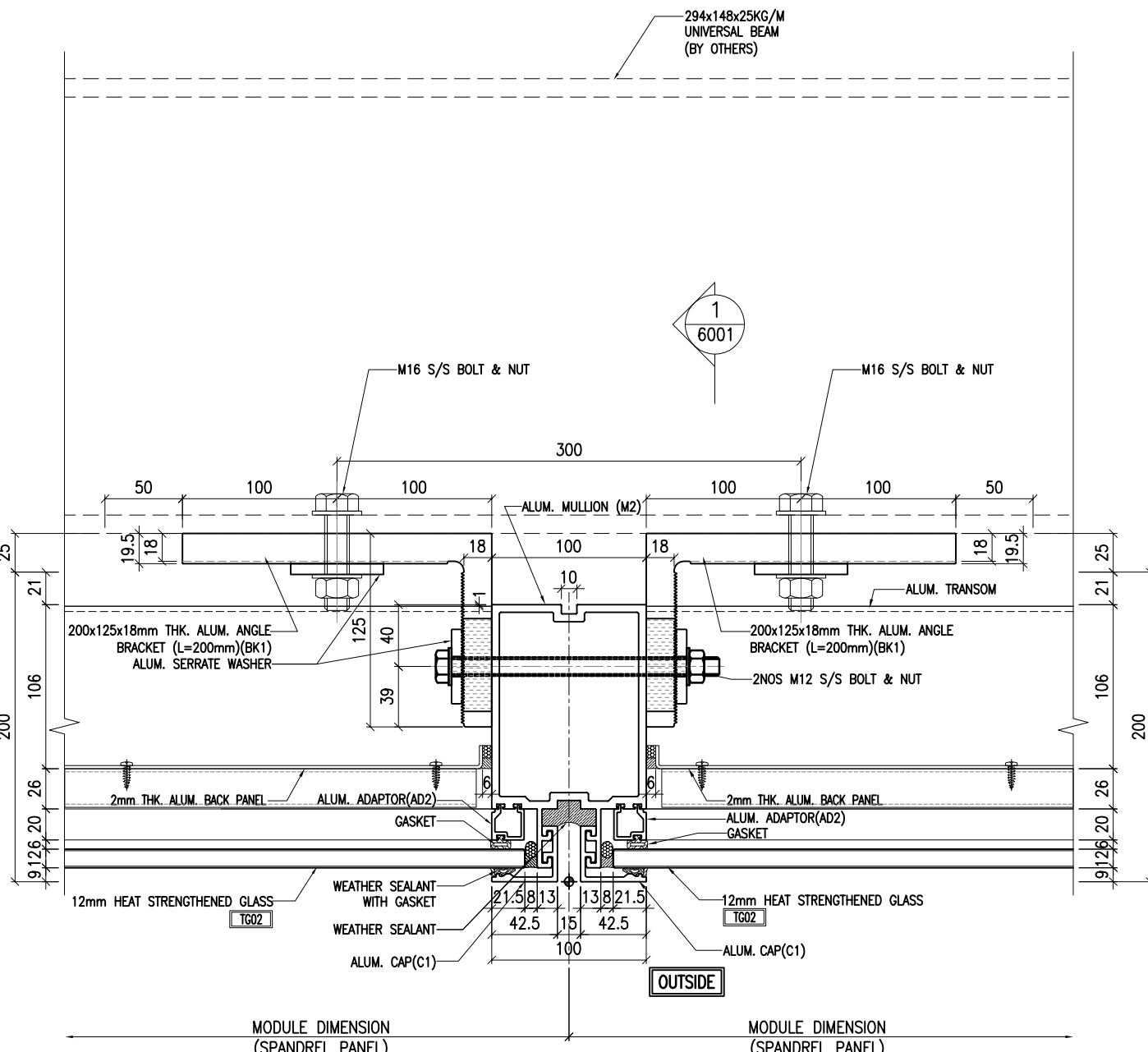
DRAWN BY : Asing CHECKED BY :

DWG NO. : J861-SD-PMU-5003 REV. : -

WONG TUNG & PARTNERS LTD.	
APPROVED	
APPROVED AS NOTED	
APPROVED AS NOTED & RESUBMIT	
RESUBMIT	
NO COMMENT	
REFER OTHER CONSULTANT'S COMMENTS	
Reviewed for compliance with the design intent. Comments made shall apply to all similar conditions & details, not just the one cited. The approval shall not be construed as relieving the contractor of compliance with the contract documents & requirements.	
Reviewed By	Date



1
5004 TYPICAL MULLION DETAIL CURTAIN WALL



2
5004 TYPICAL MULLION DETAIL CURTAIN WALL

NOTE:
 1. ALL DIMENSIONS ARE IN mm.
 2. ALL ELEVATIONS ARE VIEWED FROM OUTSIDE.
 3. ALL DIMENSIONS TO BE VERIFIED ON SITE BEFORE FABRICATION.

LEGEND:
 (X1) --- DETAIL MARK NO.
 (X001) --- REFER SHEET NO.

1. F.F.L --- FINISHED FLOOR LEVEL
 2. S.F.L --- STRUCTURAL FLOOR LEVEL
 3. (R) --- REVERSED DETAIL

NO.	DATE	REVISED	BY

CLIENT :
MILLION BASE PROPERTIES LIMITED

ARCHITECT :
WONG TUNG & PARTNERS LIMITED
 ARCHITECTS & PLANNERS

STRUCTURAL ENGINEER :
SYW SYW & ASSOCIATES LTD.
 邵賢偉建築工程師

MAIN CONTRACTOR :
顯利工程有限公司
HIEN LEE ENGINEERING CO., LTD.

美特鋁質有限公司
MIDI ALUMINIUM FABRICATOR LTD.
 Units 6-8, Sunray Industrial Centre, 1/F
 610 Cha Kwo Ling Road, Kowloon
 Tel:23489211-4 Fax:(852)2727666

JOB NO. : J-861

PROJECT :
 PROPOSED RESIDENTIAL DEVELOPMENT AT NOS. 3-6 GLENEALY, CENTRAL, HONG KONG

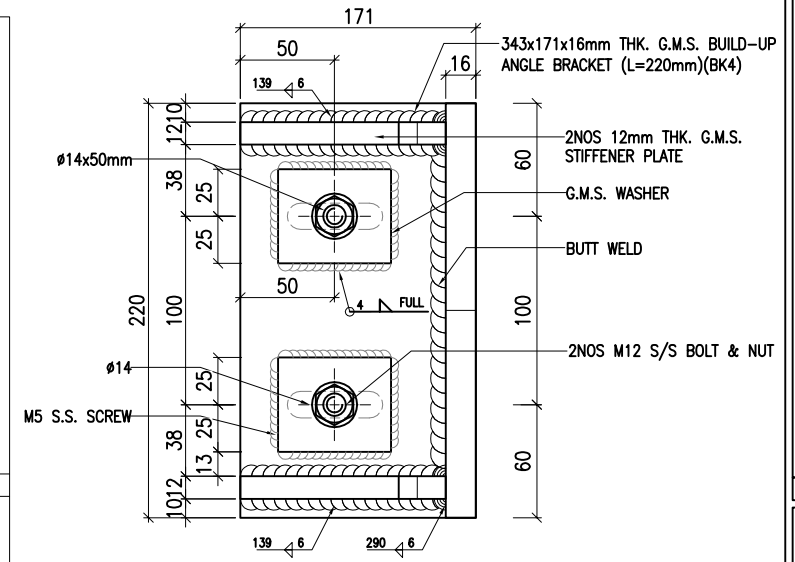
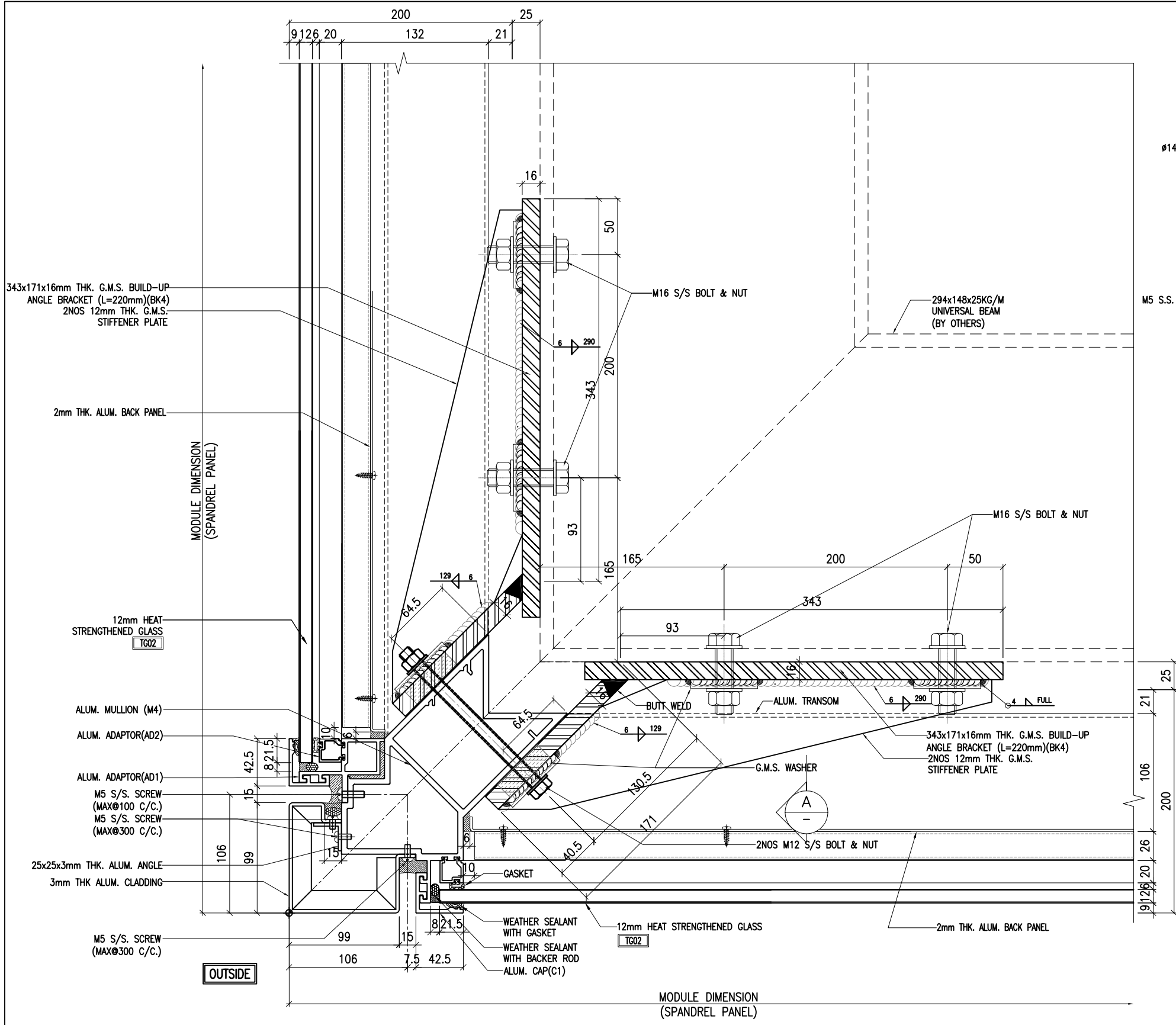
TITLE :
 TYPICAL MULLION DETAIL FOR CURTAIN WALL

DATE : 06-Nov.-24 SCALE : 1:2 (A1)

DRAWN BY : Asing CHECKED BY :

DWG NO. : J861-SD-PMU-5004 REV. : -

WONG TUNG & PARTNERS LTD.	
APPROVED	
APPROVED AS NOTED	
APPROVED AS NOTED & RESUBMIT	
RESUBMIT	
NO COMMENT	
REFER OTHER CONSULTANT'S COMMENTS	
Reviewed for compliance with the design intent. Comments made shall apply to all similar conditions & details, not just the area cited. The approval shall not be construed as relieving the contractor of compliance with the contract documents & requirements.	
Reviewed By	Date



SECTION A-A

NOTE:
 1. ALL DIMENSIONS ARE IN mm.
 2. ALL ELEVATIONS ARE VIEWED FROM OUTSIDE.
 3. ALL DIMENSIONS TO BE VERIFIED ON SITE BEFORE FABRICATION.

LEGEND:
 X1 --- DETAIL MARK NO.
 X001 --- REFER SHEET NO.

1. F.F.L --- FINISHED FLOOR LEVEL
 2. S.F.L --- STRUCTURAL FLOOR LEVEL
 3. (R) --- REVERSED DETAIL

NO.	DATE	REVISED	BY

CLIENT :
MILLION BASE PROPERTIES LIMITED

ARCHITECT :
WONG TUNG & PARTNERS LIMITED
 ARCHITECTS & PLANNERS



STRUCTURAL ENGINEER :
SYW & ASSOCIATES LTD.
REGISTERED ENGINEERS & AUTHORIZED PERSONS
邵賢偉建築工程師



MAIN CONTRACTOR :
顯利工程有限公司
HIEN LEE ENGINEERING CO., LTD.



美特鋁質有限公司
MIDI ALUMINIUM FABRICATOR LTD.
 Units 6-8, Sunray Industrial Centre, 1/F
 610 Cha Kwo Ling Road, Kowloon
 Tel:23489211-4 Fax:(852)2727666

JOB NO. : J-861

PROJECT :
 PROPOSED RESIDENTIAL
 DEVELOPMENT AT NOS. 3-6
 GLENEALY, CENTRAL, HONG KONG

TITLE :
 TYPICAL MULLION DETAIL
 FOR CURTAIN WALL

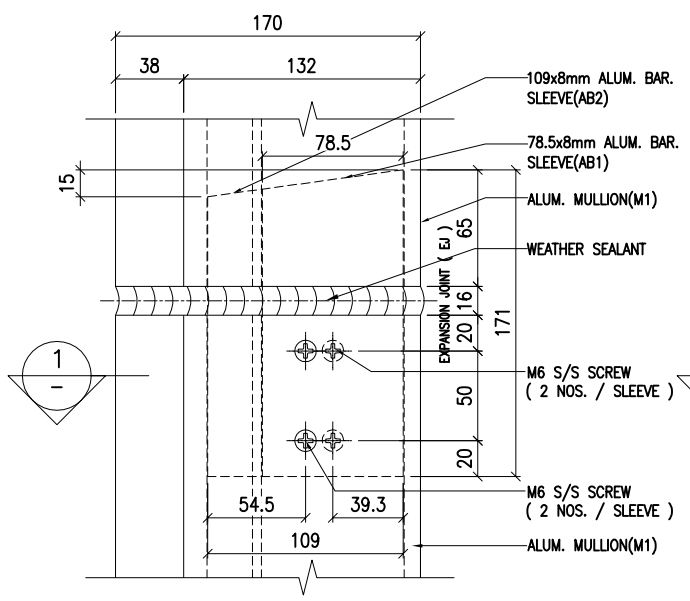
DATE : 06-Nov.-24 SCALE : 1:2 (A1)

DRAWN BY : Asing CHECKED BY :

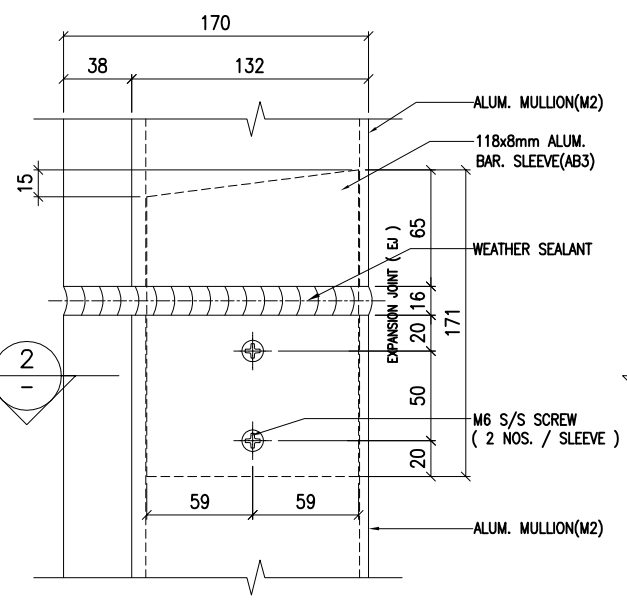
DWG NO. : J861-SD-PMU-5005 REV. : -

1 TYPICAL CORNER DETAIL
 5005 CURTAIN WALL

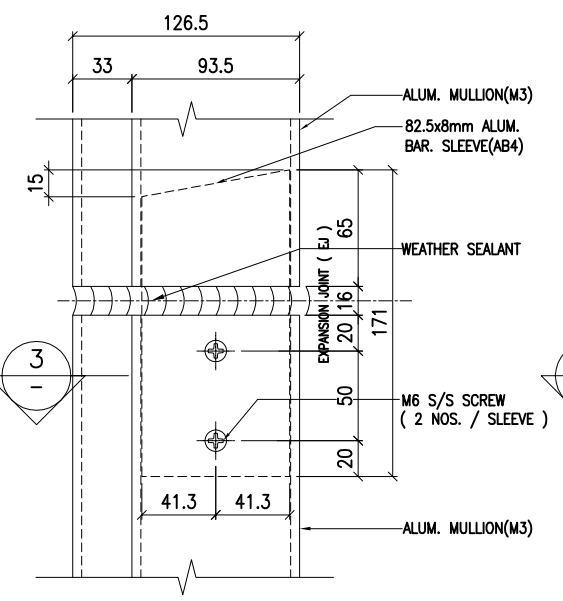
WONG TUNG & PARTNERS LTD.	
APPROVED	
APPROVED AS NOTED	
APPROVED AS NOTED & RESUBMIT	
RESUBMIT	
NO COMMENT	
REFER OTHER CONSULTANT'S COMMENTS	
Reviewed for compliance with the design intent. Comments made shall apply to all similar conditions & details, not just the area cited. The approval shall not be construed as relieving the contractor for compliance with the contract documents & requirements.	
Reviewed By	Date



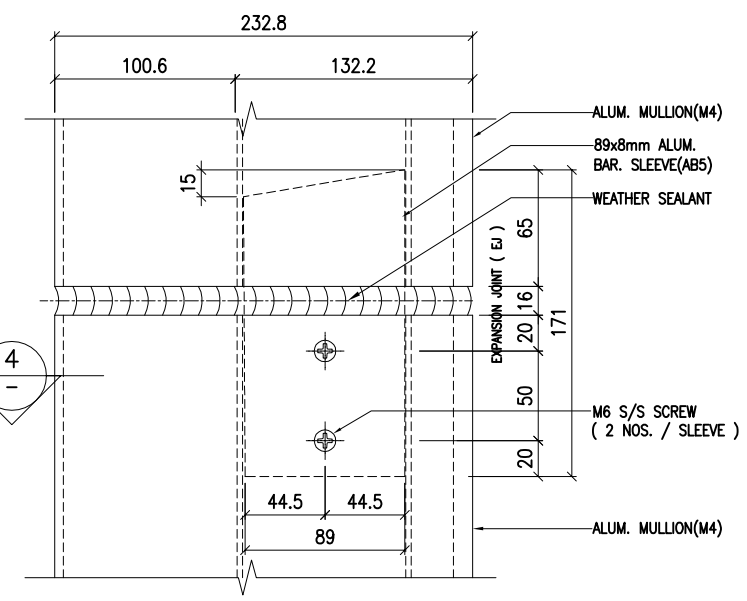
VIEW 1



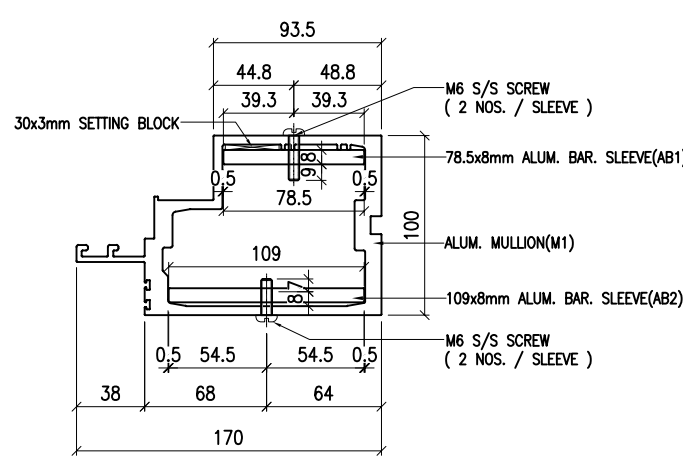
VIEW 2



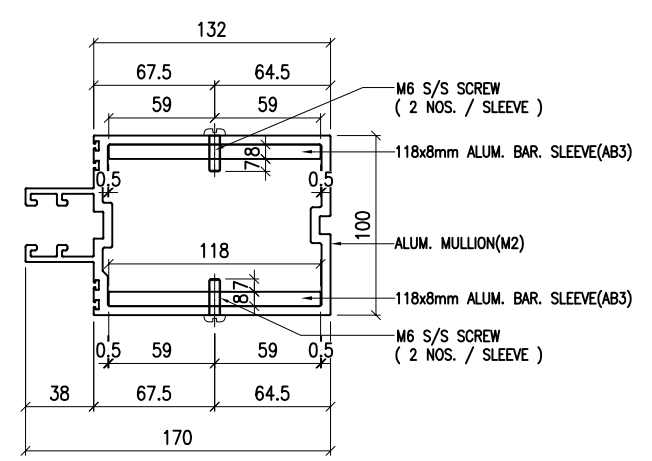
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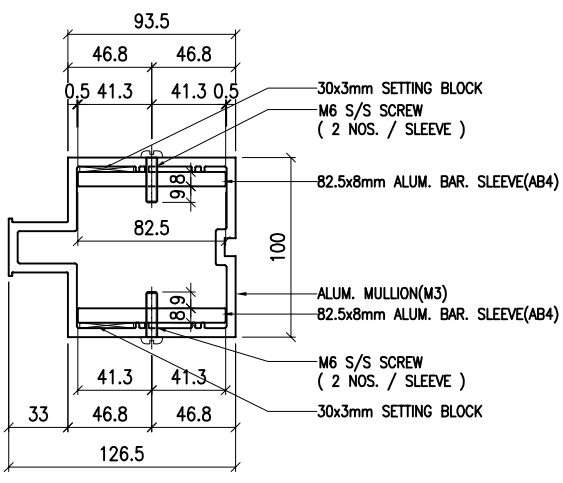
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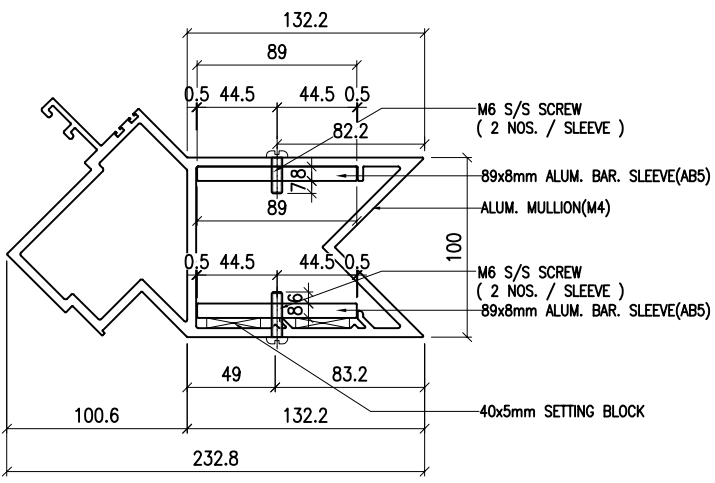
SECTION 1-1



SECTION 2-2



SECTION 3-3



SECTION 4-4

" ALUMINIUM CURTAIN WALL SLEEVE "

1 TYPICAL SLEEVE DETAIL
5006 CURTAIN WALL

" ALUMINIUM CURTAIN WALL SLEEVE "

2 TYPICAL SLEEVE DETAIL
5006 CURTAIN WALL

" ALUMINIUM CURTAIN WALL SLEEVE "

3 TYPICAL SLEEVE DETAIL
5006 CURTAIN WALL

" ALUMINIUM CURTAIN WALL SLEEVE "

4 TYPICAL SLEEVE DETAIL
5006 CURTAIN WALL

NOTE:
1. ALL DIMENSIONS ARE IN mm.
2. ALL ELEVATIONS ARE VIEWED FROM OUTSIDE.
3. ALL DIMENSIONS TO BE VERIFIED ON SITE BEFORE FABRICATION.

LEGEND:
X1 --- DETAIL MARK NO.
X001 --- REFER SHEET NO.

1. F.F.L --- FINISHED FLOOR LEVEL
2. S.F.L --- STRUCTURAL FLOOR LEVEL
3. (R) --- REVERSED DETAIL

NO.	DATE	REVISED	BY

CLIENT :
MILLION BASE PROPERTIES LIMITED

ARCHITECT :
WONG TUNG & PARTNERS LIMITED
ARCHITECTS & PLANNERS

STRUCTURAL ENGINEER :
SYW SYW & ASSOCIATES LTD.
REGISTERED ENGINEERS & AUTHORIZED PERSONS
邵賢偉建築工程師

MAIN CONTRACTOR :
顯利工程有限公司
HIEN LEE ENGINEERING CO., LTD.

美特鋁質有限公司
MIDI ALUMINIUM FABRICATOR LTD.
Units 6-8, Sunray Industrial Centre, 1/F
610 Cha Kwo Ling Road, Kowloon
Tel:23489211-4 Fax:(852)2727666

JOB NO. : J-861

PROJECT :
PROPOSED RESIDENTIAL DEVELOPMENT AT NOS. 3-6 GLENEALY, CENTRAL, HONG KONG

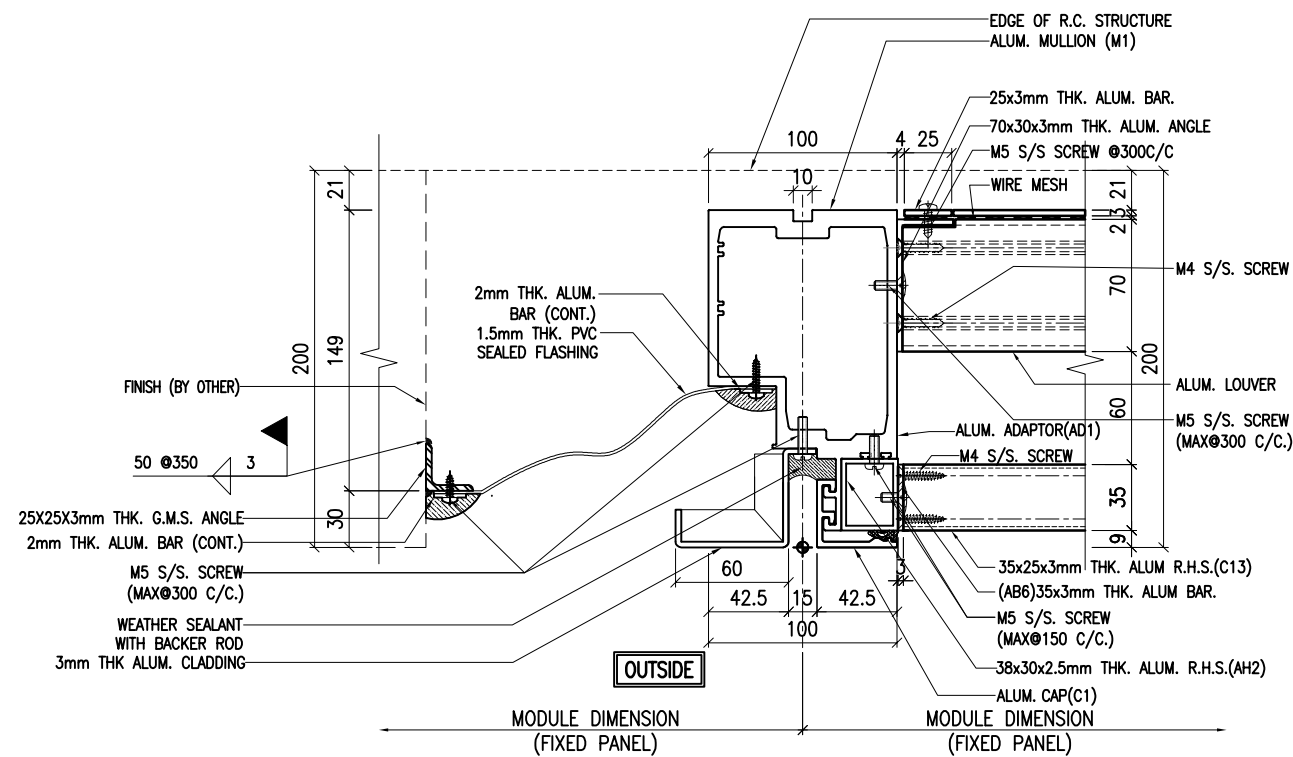
TITLE :
TYPICAL MULLION DETAIL FOR CURTAIN WALL

DATE : 06-Nov.-24 SCALE : 1:2 (A1)

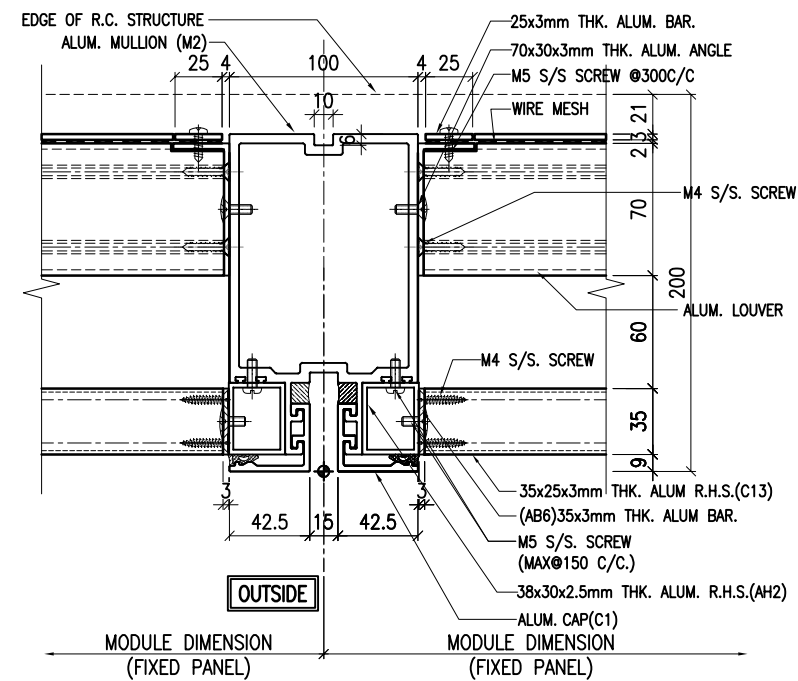
DRAWN BY : Asing CHECKED BY :

DWG NO. : J861-SD-PMU-5006 REV. : -

WONG TUNG & PARTNERS LTD.	
APPROVED	
APPROVED AS NOTED	
APPROVED AS NOTED & RESUBMIT	
RESUBMIT	
NO COMMENT	
REFER OTHER CONSULTANT'S COMMENTS	
Reviewed for compliance with the design intent. Comments made shall apply to all similar conditions & details, not just the area cited. The approval shall not be construed as relieving the contractor of compliance with the contract documents & requirements.	
Reviewed By	Date



1 TYPICAL MULLION DETAIL
5007 CURTAIN WALL



2 TYPICAL MULLION DETAIL
5007 CURTAIN WALL

NOTE:
 1. ALL DIMENSIONS ARE IN mm.
 2. ALL ELEVATIONS ARE VIEWED FROM OUTSIDE.
 3. ALL DIMENSIONS TO BE VERIFIED ON SITE BEFORE FABRICATION.

LEGEND:
 (X1) --- DETAIL MARK NO.
 (X001) --- REFER SHEET NO.

1. F.F.L --- FINISHED FLOOR LEVEL
 2. S.F.L --- STRUCTURAL FLOOR LEVEL
 3. (R) --- REVERSED DETAIL


NO.	DATE	REVISED	BY

CLIENT :
MILLION BASE PROPERTIES LIMITED

ARCHITECT :
WONG TUNG & PARTNERS LIMITED
 ARCHITECTS & PLANNERS



STRUCTURAL ENGINEER :
SYW & ASSOCIATES LTD.
REGISTERED ENGINEERS & AUTHORIZED PERSONS
邵賢偉建築工程師



MAIN CONTRACTOR :
顯利工程有限公司
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美特鋁質有限公司
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 Tel:23489211-4 Fax:(852)2727666

JOB NO. : J-861

PROJECT :
 PROPOSED RESIDENTIAL
 DEVELOPMENT AT NOS. 3-6
 GLENEALY, CENTRAL, HONG KONG

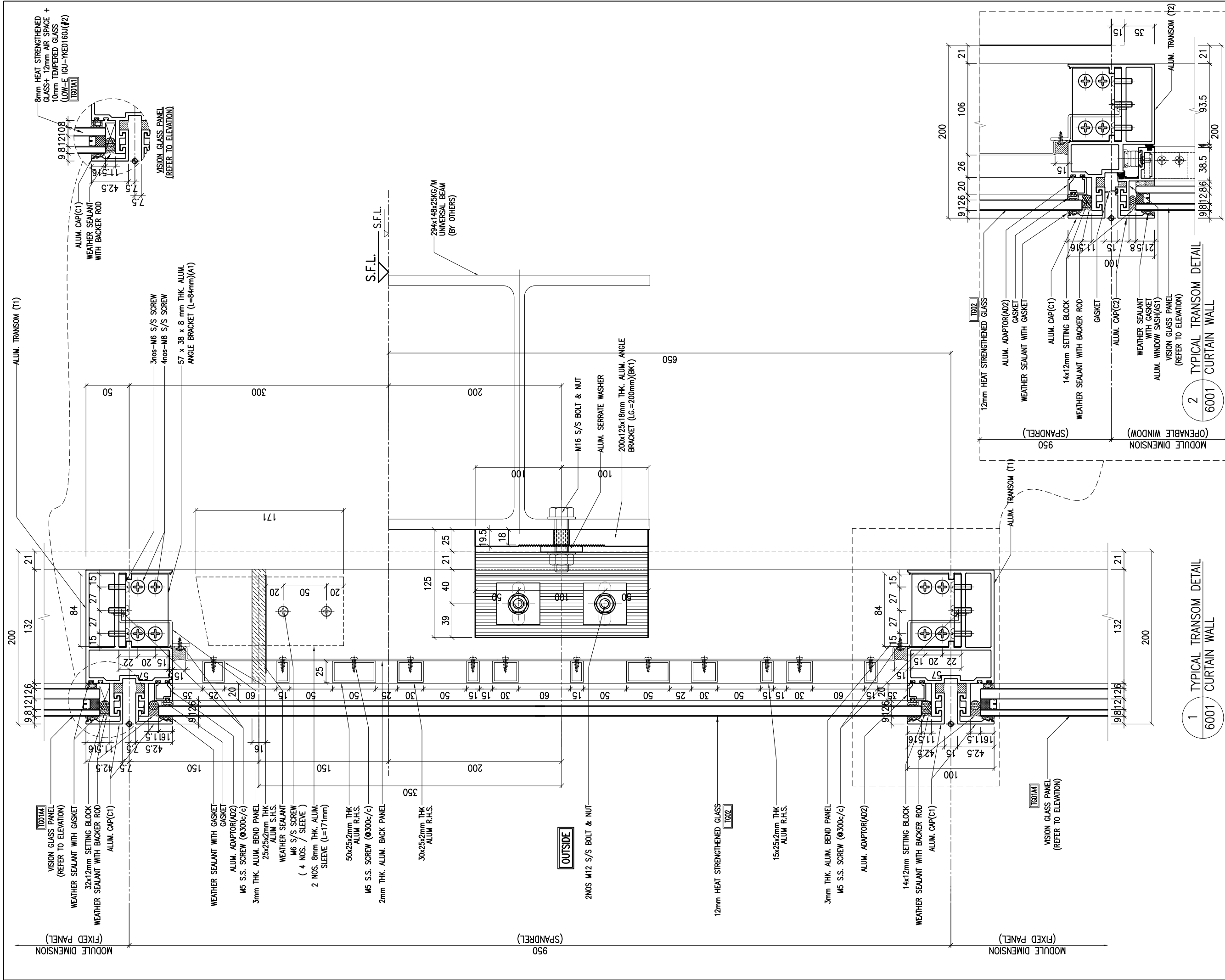
TITLE :
 TYPICAL MULLION DETAIL
 FOR CURTAIN WALL

DATE : 06-Nov.-24 SCALE : 1:2 (A1)

DRAWN BY : Asing CHECKED BY :

DWG NO. : J861-SD-PMU-5007 REV. : -

WONG TUNG & PARTNERS LTD.	
APPROVED	
APPROVED AS NOTED	
APPROVED AS NOTED & RESUBMIT	
RESUBMIT	
NO COMMENT	
REFER OTHER CONSULTANT'S COMMENTS	
<small>Reviewed for compliance with the design intent. Comments made shall apply to all similar conditions & details, not just the area cited. The approval shall not be construed as relieving the contractor of compliance with the contract documents & requirements.</small>	
Reviewed By	Date



NOTE:
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LEGEND:
 (X1) --- DETAIL MARK NO.
 (X001) --- REFER SHEET NO.

1. F.F.L --- FINISHED FLOOR LEVEL
 2. S.F.L --- STRUCTURAL FLOOR LEVEL
 3. (R) --- REVERSED DETAIL

NO.	DATE	REVISED	BY

CLIENT :
MILLION BASE PROPERTIES LIMITED

ARCHITECT :
WONG TUNG & PARTNERS LIMITED
 ARCHITECTS & PLANNERS

STRUCTURAL ENGINEER :
SYW SYW & ASSOCIATES LTD.
 邵賢偉建築工程師

MAIN CONTRACTOR :
顯利工程有限公司
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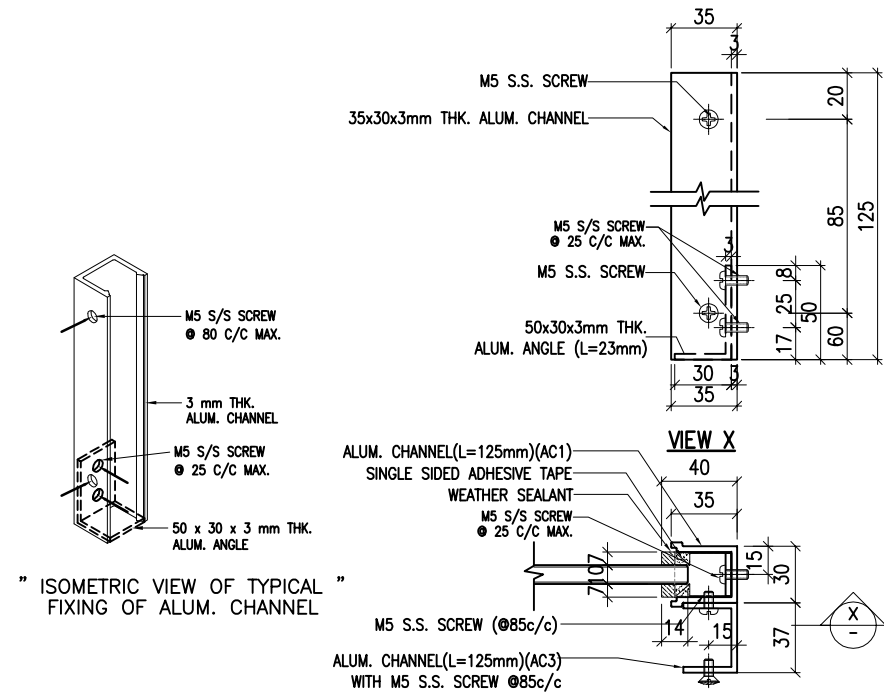
JOB NO. : J-861

PROJECT :
 PROPOSED RESIDENTIAL DEVELOPMENT AT NOS. 3-6 GLENEALY, CENTRAL, HONG KONG

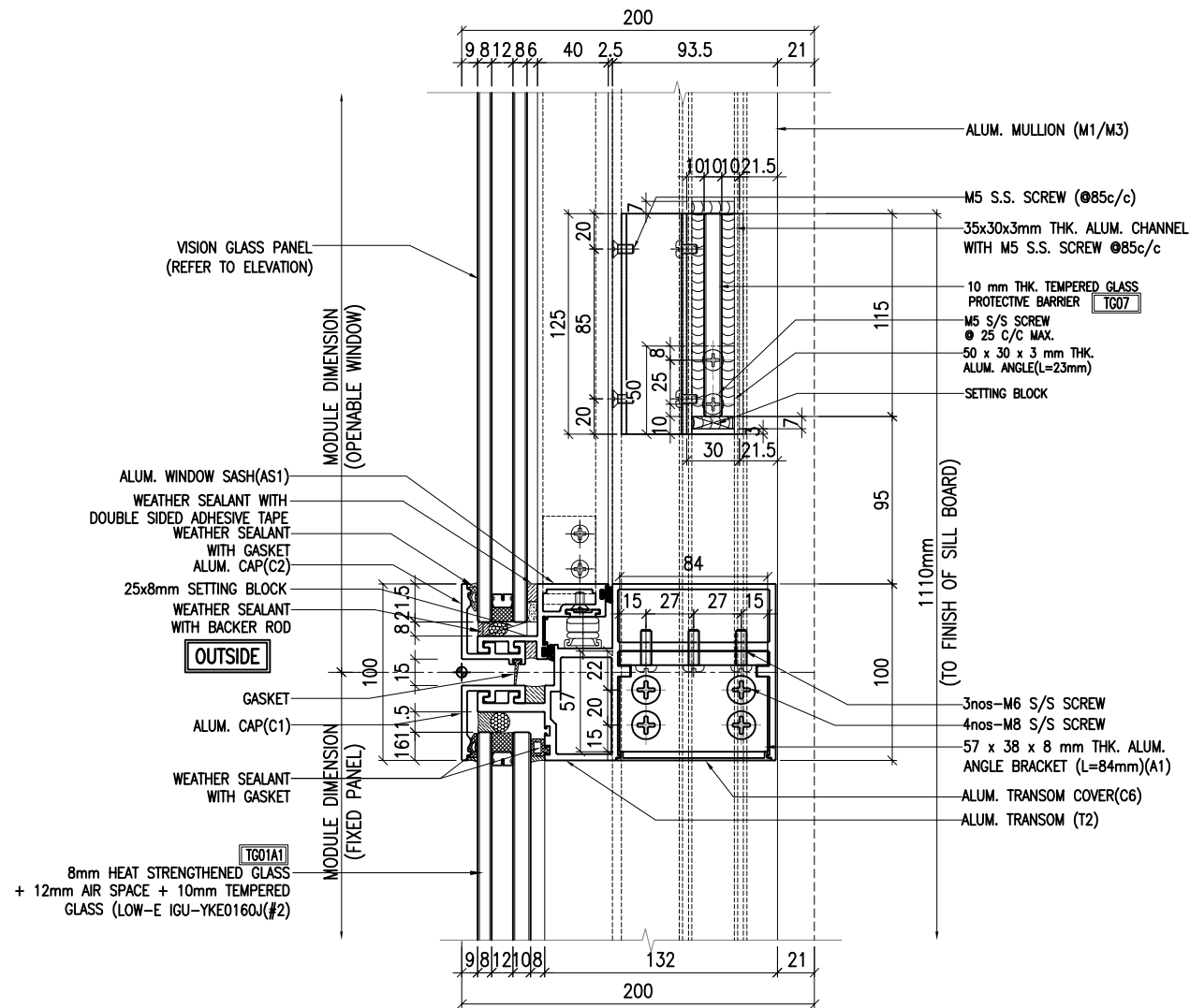
TITLE :
 TYPICAL TRANSOM DETAIL FOR CURTAIN WALL

DATE : 06-Nov.-24 SCALE : 1:2 (A1)
 DRAWN BY : Asing CHECKED BY :
 DWG NO. : J861-SD-PMU-6001 REV. : -

WONG TUNG & PARTNERS LTD.	
APPROVED	
APPROVED AS NOTED	
APPROVED AS NOTED & RESUBMIT	
RESUBMIT	
NO COMMENT	
REFER OTHER CONSULTANT'S COMMENTS	
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Reviewed By	Date



TYPICAL DETAIL FOR TG-07 10mm THK. GLASS BARRIER



1 TYPICAL TRANSOM DETAIL
6002 CURTAIN WALL

NOTE:
1. ALL DIMENSIONS ARE IN mm.
2. ALL ELEVATIONS ARE VIEWED FROM OUTSIDE.
3. ALL DIMENSIONS TO BE VERIFIED ON SITE BEFORE FABRICATION.

LEGEND:
X1 - DETAIL MARK NO.
X001 - REFER SHEET NO.

1. F.F.L -- FINISHED FLOOR LEVEL
2. S.F.L -- STRUCTURAL FLOOR LEVEL
3. (R) -- REVERSED DETAIL

NO.	DATE	REVISED	BY

CLIENT :
MILLION BASE PROPERTIES LIMITED

ARCHITECT :
WONG TUNG & PARTNERS LIMITED
ARCHITECTS & PLANNERS

STRUCTURAL ENGINEER :
SYW SYW & ASSOCIATES LTD.
CHARTERED ENGINEERS & AUTHORIZED PERSONS
邵賢偉建築工程師

MAIN CONTRACTOR :
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HIEN LEE ENGINEERING CO., LTD.

美特鋁質有限公司
MIDI ALUMINIUM FABRICATOR LTD.
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Tel:23489211-4 Fax:(852)2727666

JOB NO. : J-861

PROJECT :
PROPOSED RESIDENTIAL DEVELOPMENT AT NOS. 3-6 GLENEALY, CENTRAL, HONG KONG

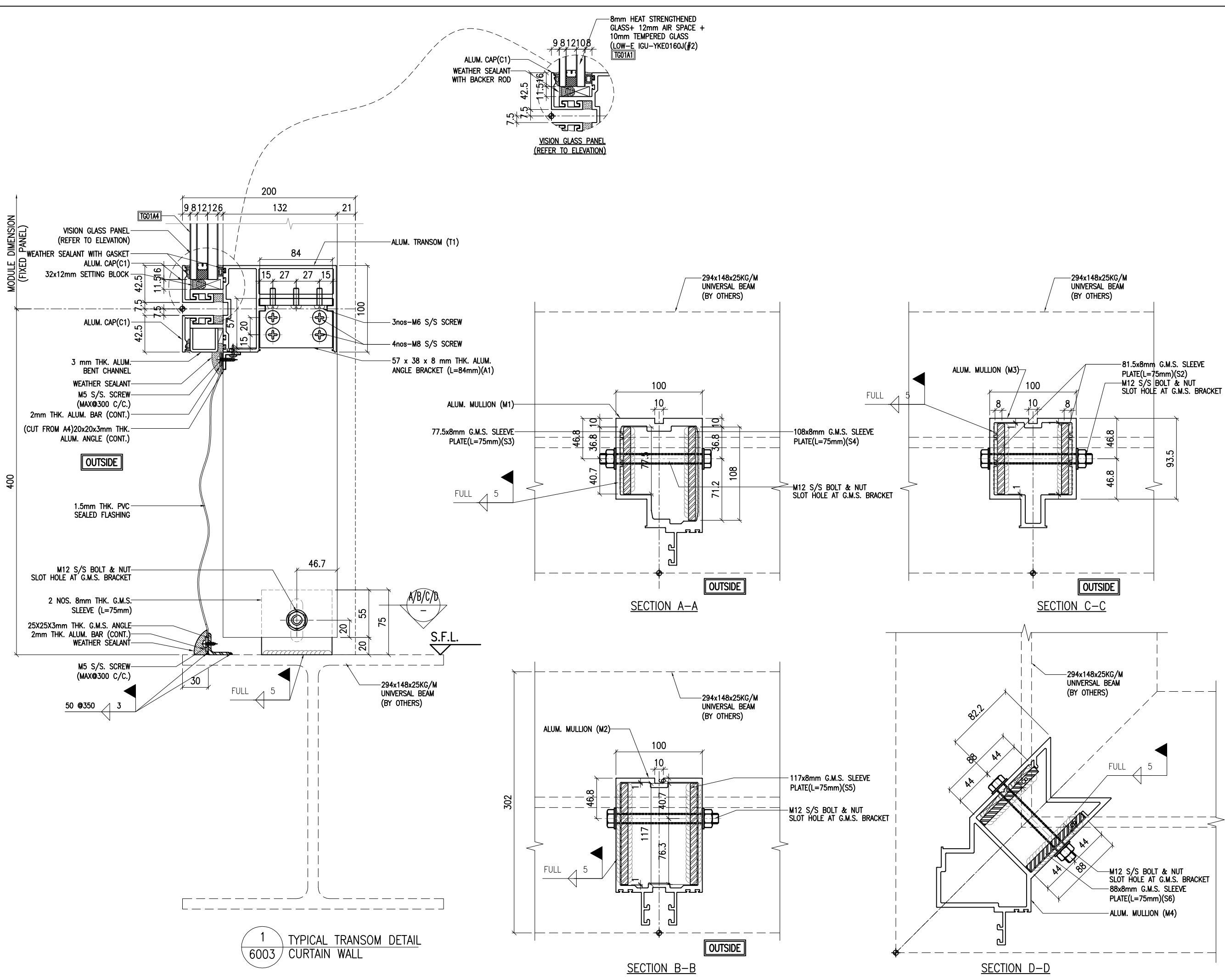
TITLE :
TYPICAL TRANSOM DETAIL FOR CURTAIN WALL

DATE : 06-Nov.-24 SCALE : 1:2 (A1)

DRAWN BY : Asing CHECKED BY :

DWG NO. : J861-SD-PMU-6002 REV. : -

WONG TUNG & PARTNERS LTD.	
APPROVED	
APPROVED AS NOTED	
APPROVED AS NOTED & RESUBMIT	
RESUBMIT	
NO COMMENT	
REFER OTHER CONSULTANT'S COMMENTS	
Reviewed for compliance with the design intent. Comments made shall apply to all similar conditions & details, not just the area cited. The approval shall not be construed as relieving the contractor for compliance with the contract documents & requirements.	
Reviewed By	Date



1
6003 TYPICAL TRANSOM DETAIL
CURTAIN WALL

NOTE:
 1. ALL DIMENSIONS ARE IN mm.
 2. ALL ELEVATIONS ARE VIEWED FROM OUTSIDE.
 3. ALL DIMENSIONS TO BE VERIFIED ON SITE BEFORE FABRICATION.

LEGEND:
 (X1) --- DETAIL MARK NO.
 (X001) --- REFER SHEET NO.

1. F.F.L --- FINISHED FLOOR LEVEL
 2. S.F.L --- STRUCTURAL FLOOR LEVEL
 3. (R) --- REVERSED DETAIL

NO.	DATE	REVISED	BY

CLIENT :
MILLION BASE PROPERTIES LIMITED

ARCHITECT :
WONG TUNG & PARTNERS LIMITED
 ARCHITECTS & PLANNERS

STRUCTURAL ENGINEER :
SYW SYW & ASSOCIATES LTD.
 邵賢偉建築工程師

MAIN CONTRACTOR :
顯利工程有限公司
HIEN LEE ENGINEERING CO., LTD.

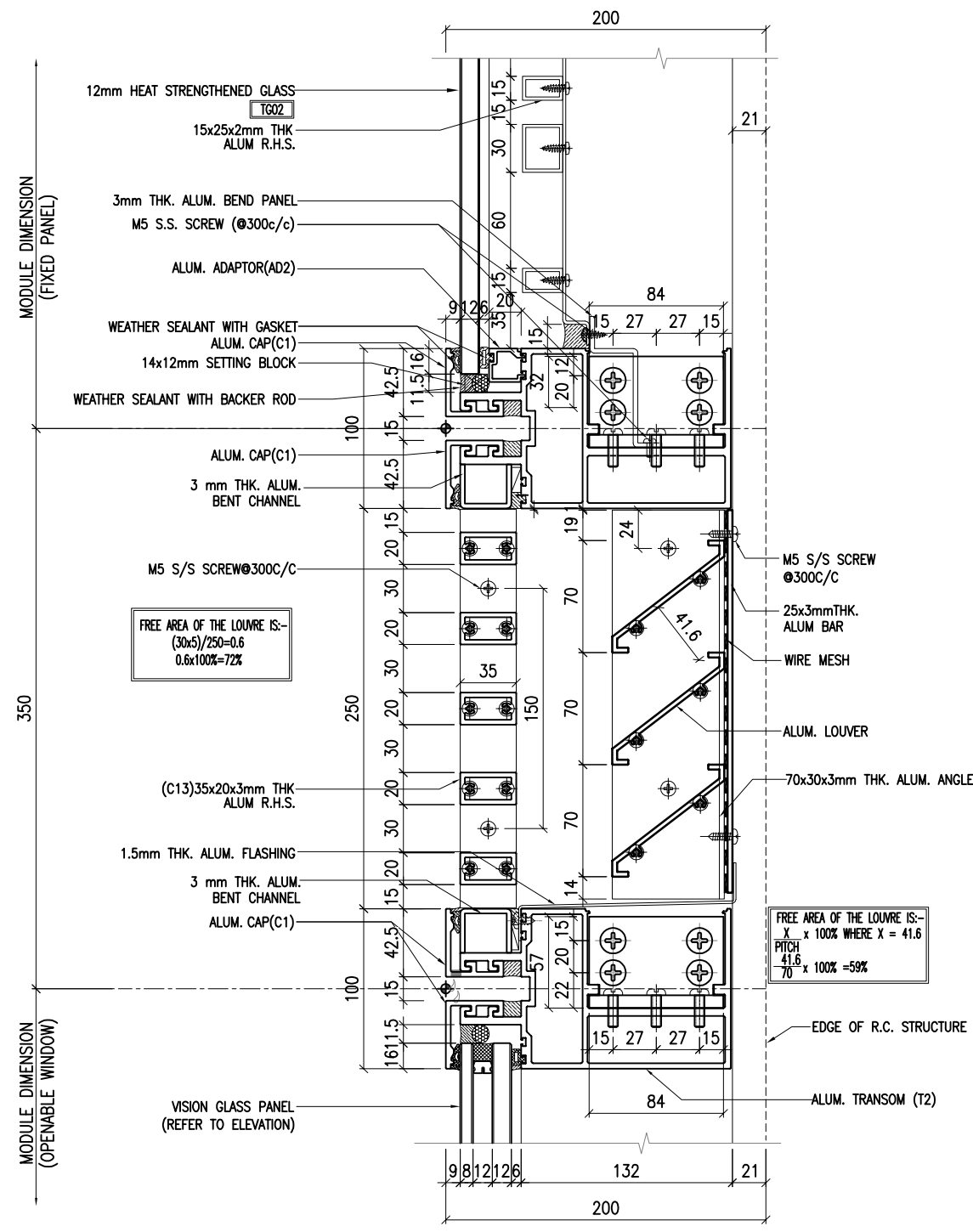
美特鋁質有限公司
MIDI ALUMINIUM FABRICATOR LTD.
 Units 6-8, Sunray Industrial Centre, 1/F
 610 Cha Kwo Ling Road, Kowloon
 Tel:23489211-4 Fax:(852)2727666

JOB NO. : J-861
 PROJECT :
 PROPOSED RESIDENTIAL
 DEVELOPMENT AT NOS. 3-6
 GLENEALY, CENTRAL, HONG KONG

TITLE :
 TYPICAL TRANSOM DETAIL
 FOR CURTAIN WALL

DATE : 06-Nov.-24 SCALE : 1:2 (A1)
 DRAWN BY : Asing CHECKED BY :
 DWG NO. : J861-SD-PMU-6003 REV. : -

WONG TUNG & PARTNERS LTD.	
APPROVED	
APPROVED AS NOTED	
APPROVED AS NOTED & RESUBMIT	
RESUBMIT	
NO COMMENT	
REFER OTHER CONSULTANT'S COMMENTS	
Reviewed for compliance with the design intent. Comments made shall apply to all similar conditions & details, not just the area cited. The approval shall not be construed as relieving the contractor for compliance with the contract documents & requirements.	
Reviewed By	Date



1 TYPICAL TRANSOM DETAIL
6004 CURTAIN WALL

NOTE :
 1. ALL DIMENSIONS ARE IN mm.
 2. ALL ELEVATIONS ARE VIEWED FROM OUTSIDE.
 3. ALL DIMENSIONS TO BE VERIFIED ON SITE BEFORE FABRICATION.

LEGEND :

X1 — DETAIL MARK NO.
 X001 — REFER SHEET NO.

1. F.F.L --- FINISHED FLOOR LEVEL
 2. S.F.L --- STRUCTURAL FLOOR LEVEL
 3. (R) --- REVERSED DETAIL

NO.	DATE	REVISED	BY

CLIENT :
 MILLION BASE PROPERTIES LIMITED

ARCHITECT :
 WONG TUNG & PARTNERS LIMITED
 ARCHITECTS & PLANNERS

STRUCTURAL ENGINEER :
 SYW & ASSOCIATES LTD.
 CHARTERED ENGINEERS & AUTHORIZED PERSONS
 邵賢偉建築工程師

MAIN CONTRACTOR :
 顯利工程有限公司
 HIEN LEE ENGINEERING CO., LTD.
 美特鋁質有限公司
 MIDI ALUMINIUM FABRICATOR LTD.
 Units 6-8, Sunray Industrial Centre, 1/F
 610 Cha Kwo Ling Road, Kowloon
 Tel: 23489211-4 Fax: (852) 2727666

JOB NO. : J-861

PROJECT :
 PROPOSED RESIDENTIAL DEVELOPMENT AT NOS. 3-6 GLENEALY, CENTRAL, HONG KONG

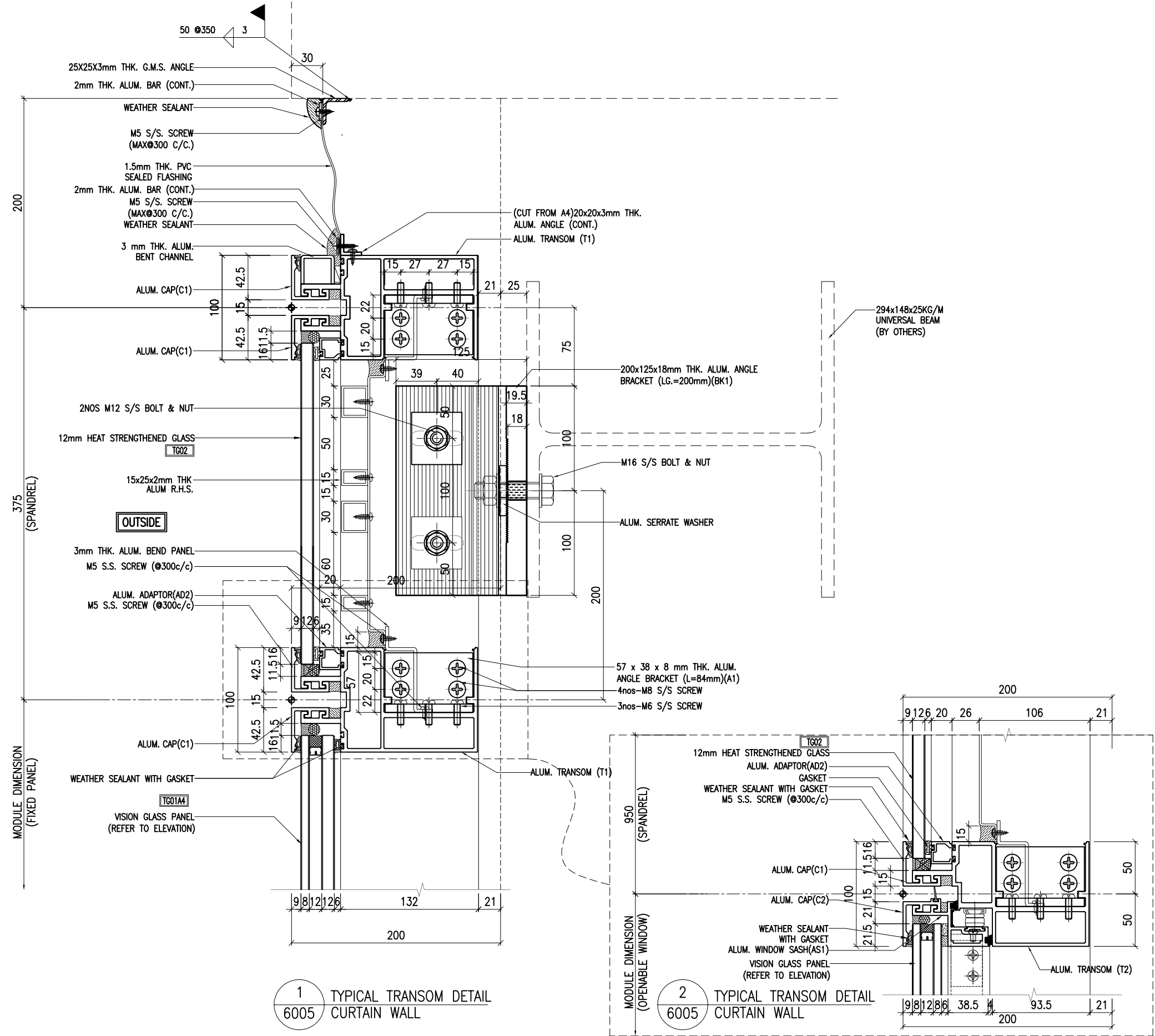
TITLE :
 TYPICAL TRANSOM DETAIL FOR CURTAIN WALL

DATE : 06-Nov.-24 **SCALE :** 1:2 (A1)

DRAWN BY : Asing **CHECKED BY :**

DWG NO. : J861-SD-PMU-6004 **REV. :** -

WONG TUNG & PARTNERS LTD.	
APPROVED	
APPROVED AS NOTED	
APPROVED AS NOTED & RESUBMIT	
RESUBMIT	
NO COMMENT	
REFER OTHER CONSULTANT'S COMMENTS	
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Reviewed By	Date



1 TYPICAL TRANSOM DETAIL
6005 CURTAIN WALL

2 TYPICAL TRANSOM DETAIL
6005 CURTAIN WALL

NOTE :
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 2. ALL ELEVATIONS ARE VIEWED FROM OUTSIDE.
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LEGEND :
 (X1) --- DETAIL MARK NO.
 (X001) --- REFER SHEET NO.

1. F.F.L --- FINISHED FLOOR LEVEL
 2. S.F.L --- STRUCTURAL FLOOR LEVEL
 3. (R) --- REVERSED DETAIL

NO.	DATE	REVISED	BY

CLIENT :
MILLION BASE PROPERTIES LIMITED

ARCHITECT :
WONG TUNG & PARTNERS LIMITED
 ARCHITECTS & PLANNERS

STRUCTURAL ENGINEER :
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 CHARTERED ENGINEERS & AUTHORIZED PERSONS
邵賢偉建築工程師

MAIN CONTRACTOR :
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HIEN LEE ENGINEERING CO., LTD.

美特鋁質有限公司
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JOB NO. : J-861
 PROJECT : PROPOSED RESIDENTIAL DEVELOPMENT AT NOS. 3-6 GLENEALY, CENTRAL, HONG KONG

TITLE : TYPICAL TRANSOM DETAIL FOR CURTAIN WALL

DATE : 06-Nov.-24 SCALE : 1:2 (A1)
 DRAWN BY : Asing CHECKED BY :
 DWG NO. : J861-SD-PMU-6005 REV. : -

WONG TUNG & PARTNERS LTD.	
APPROVED	
APPROVED AS NOTED	
APPROVED AS NOTED & RESUBMIT	
RESUBMIT	
NO COMMENT	
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