

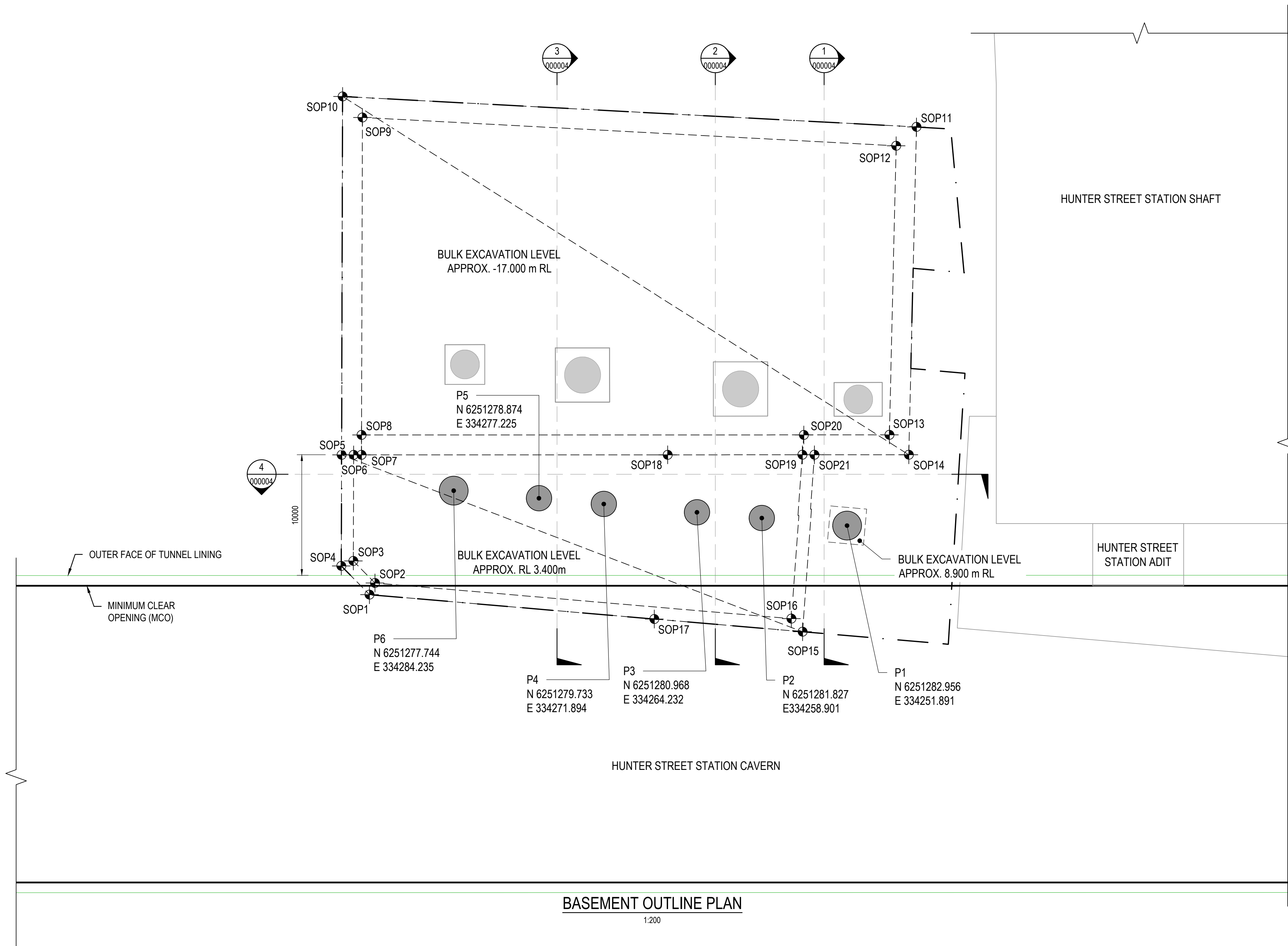
# Urban Design Addendum: Sydney Metro Requirements

For Planning Proposal -  
15-25 Hunter Street and  
105-107 Pitt Street,

# Urban Design Addendum: Sydney Metro Requirements

This Urban Design Report Addendum comprises two drawings supplied by Sydney Metro as part of pre-consultation required by the Gateway determination for the planning proposal for 15-25 Hunter Street and 105-107 Pitt Street, Sydney. These drawings detail technical requirements that any future development on the site must meet, for the protection of Sydney Metro tunnels and station caverns.

The reference scheme included in the documentation supporting the planning proposal, including those in the Urban Design Report prepared by Bates Smart, are indicative and artistic images to assist in understanding potential development which may occur on the site. Any future development will need to respond to the finalised planning controls for the site, must address potential impacts on the Sydney Metro tunnels and station caverns at the design competition stage, as well as for any future development application on the site.



**NOTE:**

- BUILDING BOUNDARY, PILES, PAD FOOTINGS AND BULK EXCAVATION LINES ARE INDICATIVE ONLY. BUILDING SET OUT TO BE PROVIDED BY THE PRINCIPAL AT LATER STAGE.
- WORST CREDIBLE CASE RESULTING FROM THE POSSIBLE IMBALANCED EFFECTS FROM BUILDING FOUNDATION LOADINGS MUST BE CONSIDERED IN THE DESIGN.
- ASSUME 20kPa TO BE ALLOWED AT THE BASEMENT LEVEL (SAME AS BULK EXCAVATION LEVEL).
- THE CAPACITY OF THE PILES IS GAINED FROM SHAFT FRICTION AND END BEARING.
- TEMPORARY WORK SUPPORTS AND CONSTRUCTION TOLERANCES DUE TUNNELLING TEMPORARY WORKS ARE NOT SHOWN IN THE DRAWING.
- PILE LOCATION AND DIAMETER SHOWN DOES NOT INCLUDE CONSTRUCTION TOLERANCES.
- PILE LOCATIONS MAY DEVIATE FOR MAXIMUM OF 500mm FROM THE CURRENT INDICATED LOCATIONS.

**LEGEND**

- SURVEY ACCURATE CADASTRAL MODEL (SACM)
- - - EXCAVATION
- COLUMN AND PAD FOOTING
- ⊙ SOPx SETOUT POINT

| LOADING SCHEDULE |                                |
|------------------|--------------------------------|
| LOADING          |                                |
| ○ PX             | REFER TO TABLE 1 FOR PILE LOAD |

**BOUNDARY SETOUT COORDINATES**

| POINT (SOP) | EASTING    | NORTHING    |
|-------------|------------|-------------|
| SOP 1       | 334291.815 | 6251285.845 |
| SOP 2       | 334291.294 | 6251284.915 |
| SOP 3       | 334292.953 | 6251282.966 |
| SOP 4       | 334293.980 | 6251283.301 |
| SOP 5       | 334293.298 | 6251274.122 |
| SOP 6       | 334292.301 | 6251274.193 |
| SOP 7       | 334291.652 | 6251274.239 |
| SOP 8       | 334291.530 | 6251272.594 |
| SOP 9       | 334289.578 | 6251246.338 |
| SOP 10      | 334291.095 | 6251244.486 |
| SOP 11      | 334243.790 | 6251250.401 |
| SOP 12      | 334245.584 | 6251251.839 |
| SOP 13      | 334247.850 | 6251275.708 |
| SOP 14      | 334246.360 | 6251277.460 |
| SOP 15      | 334256.203 | 6251291.475 |
| SOP 16      | 334257.047 | 6251290.329 |
| SOP 17      | 334268.394 | 6251289.548 |
| SOP 18      | 334266.315 | 6251276.045 |
| SOP 19      | 334255.170 | 6251276.840 |
| SOP 20      | 334254.933 | 6251275.203 |
| SOP 21      | 334254.170 | 6251276.911 |

**BASEMENT OUTLINE PLAN**

1:200

**TABLE 1**

| PILE ID | PILE CENTRE POSITION |             | PILE LOADS (kN) G | PILE LOADS (kN) Q | PILE DIAMETER (mm) | PILE CUT OFF LEVEL (RL) | PILE TOE (RL) | PILE CONCRETE GRADE AND REINFORCEMENT DETAILS |
|---------|----------------------|-------------|-------------------|-------------------|--------------------|-------------------------|---------------|---|
|         | EASTING              | NORTHING    |                   |                   |                    |                         |               |   |
| P 1     | 334251.891           | 6251282.956 | 62000             | 18000             | 2100               | 8.9                     | -20.4         | 80 MPa, 1% LONGITUDINAL REINFORCEMENT         |
| P 2     | 334258.901           | 6251281.827 | 53000             | 16000             | 1800               | 3.7                     |               |   |
| P 3     | 334264.232           | 6251280.968 |                   |                   |                    | 3.7                     |               |   |
| P 4     | 334271.894           | 6251279.733 |                   |                   |                    | 3.7                     |               |   |
| P 5     | 334277.225           | 6251278.874 |                   |                   |                    | 3.7                     |               |   |
| P 6     | 334284.235           | 6251277.744 | 62000             | 18000             | 2100               | 3.7                     |               |   |

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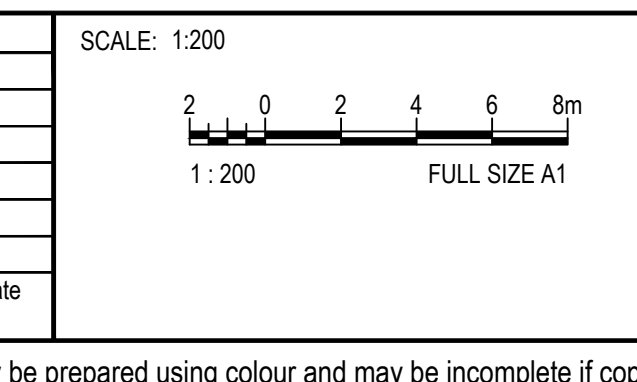
**FOR STAGE APPROVAL**

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100mm AT FULL SIZE

Title Block Revision: v6.2 EDA-TP File Path: C:\Project\Wise\SM-EDS\sm69215\SMWSTEDS-SMD-SWD-TU000-TU-SKE-000003.dwg

| REV. | AMENDMENT DESCRIPTION | Design by | Verified by | Approved by | Date |
|------|-----------------------|-----------|-------------|-------------|------|
| A.1  | ISSUED FOR TENDER     | AS        |             |             |      |



NOTE: Do not scale from this drawing.

CLIENT:

AEO COMPANY: **Engineering Design & Assurance Technical Partner**

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|                            |                       |            |
|----------------------------|-----------------------|------------|
| DESIGN COMPANY/CONTRACTOR: | DRAWN: HARSHAD        | 09.09.2022 |
|                            | DESIGNED: A.SHIVASAMI | 09.09.2022 |
|                            | DRG CHECK: _____      |            |
|                            | DESIGN CHECK: _____   |            |
|                            | APPROVED: _____       |            |

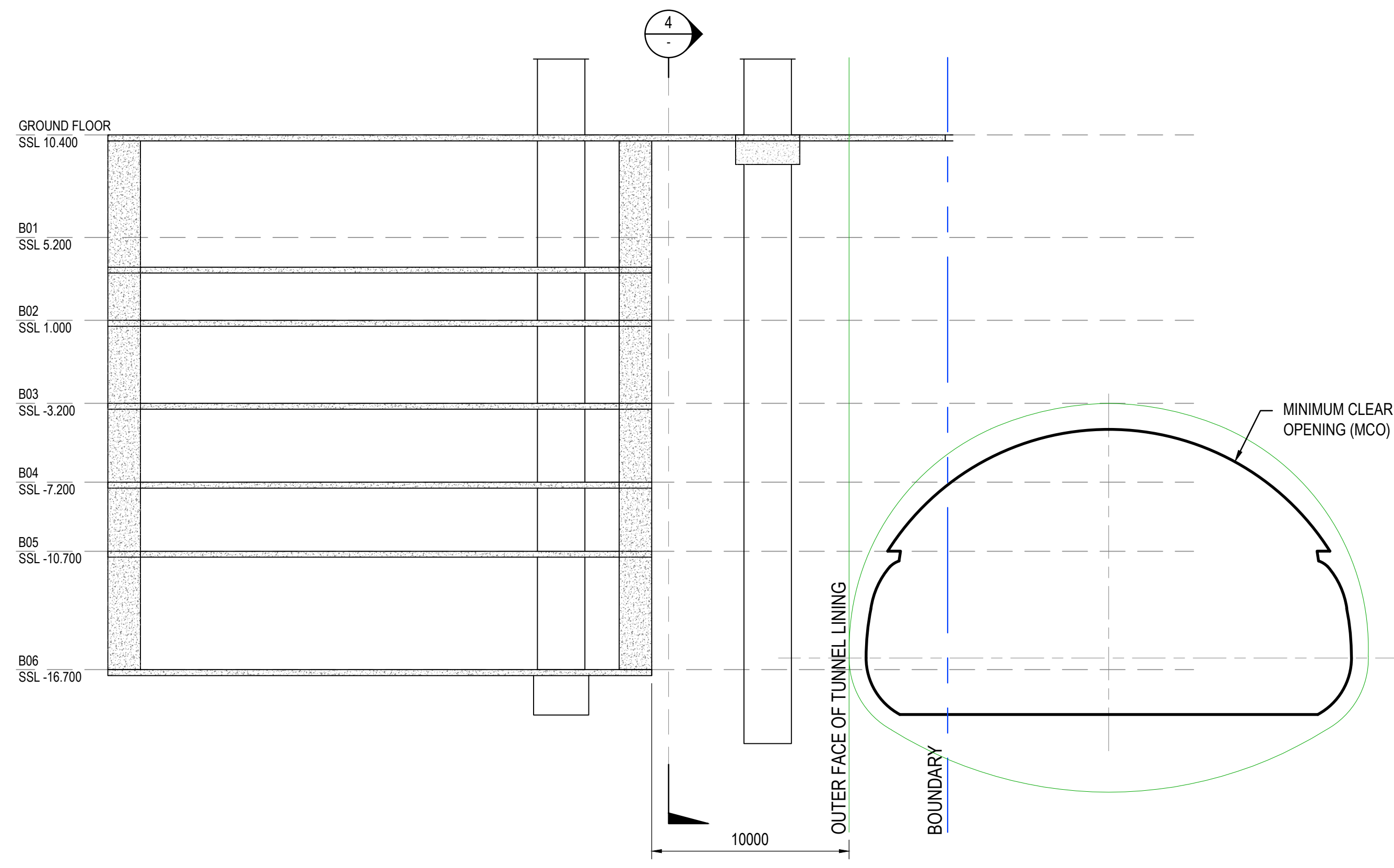
STRUCTURAL

**SYDNEY METRO WEST**

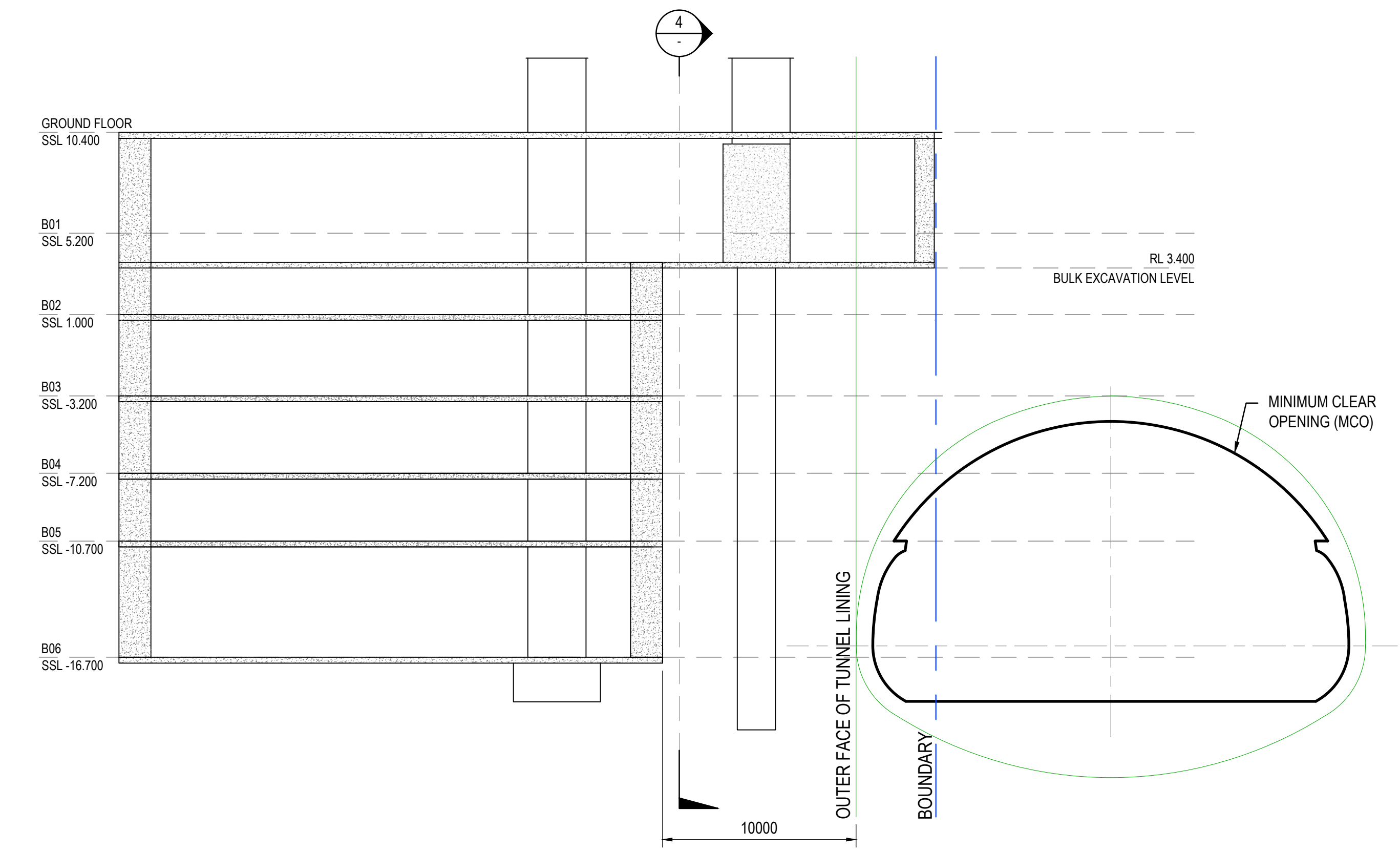
TUNNELS SPECIFIC  
TUNNEL STRUCTURES  
EASTERN TUNNELLING PACKAGE  
HUNTER STREET - OPERATIONAL LOAD CASES - MILLIGAN

|   |               |      |
|---|---------------|------|
| FILE No:  | SHEET: 1 OF 2 | ©    |
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| DRG No: SMWSTEDS-SMD-SWD-TU000-TU-SKE-000003          | REV: A.1      | VER: |

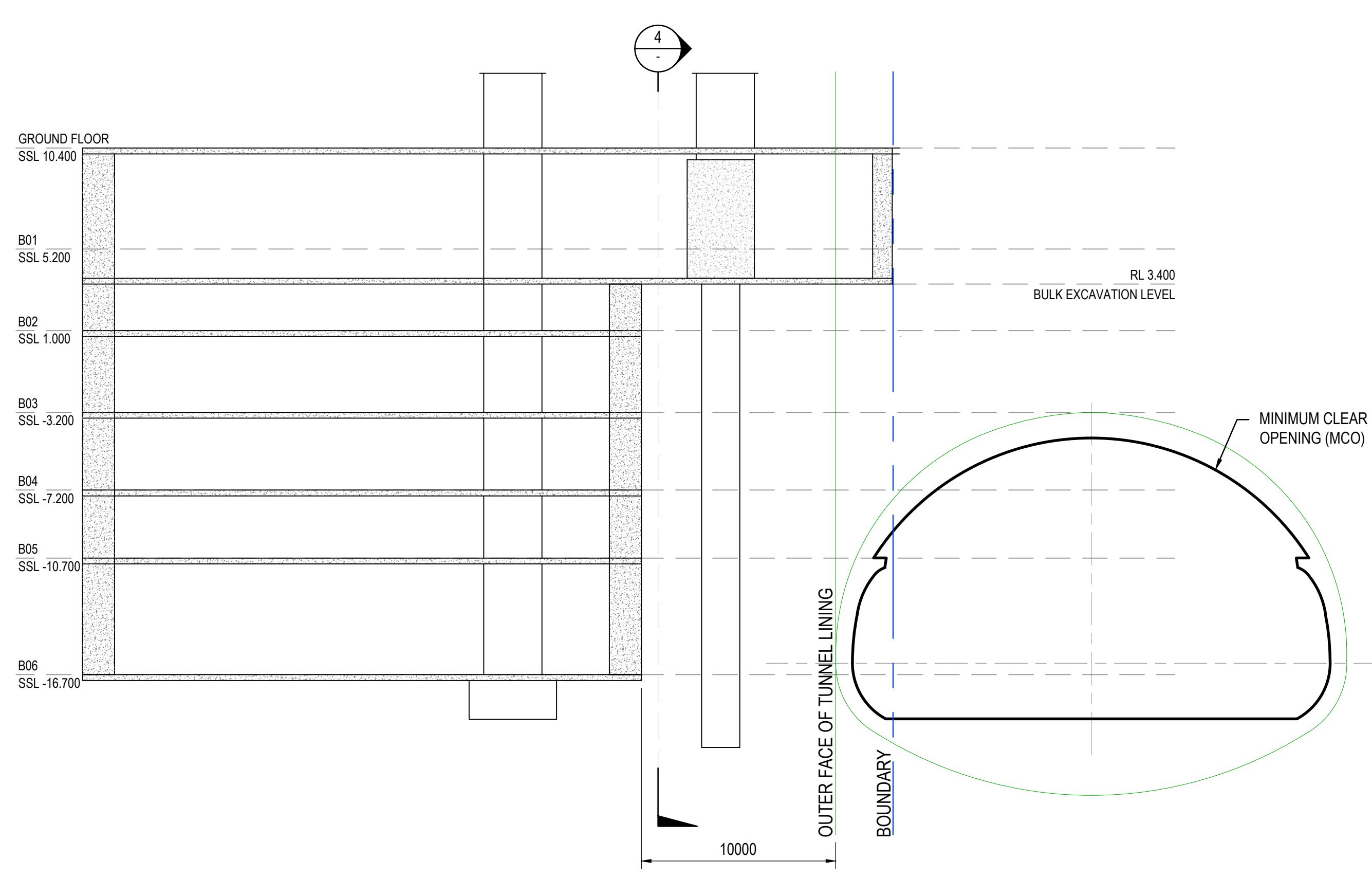




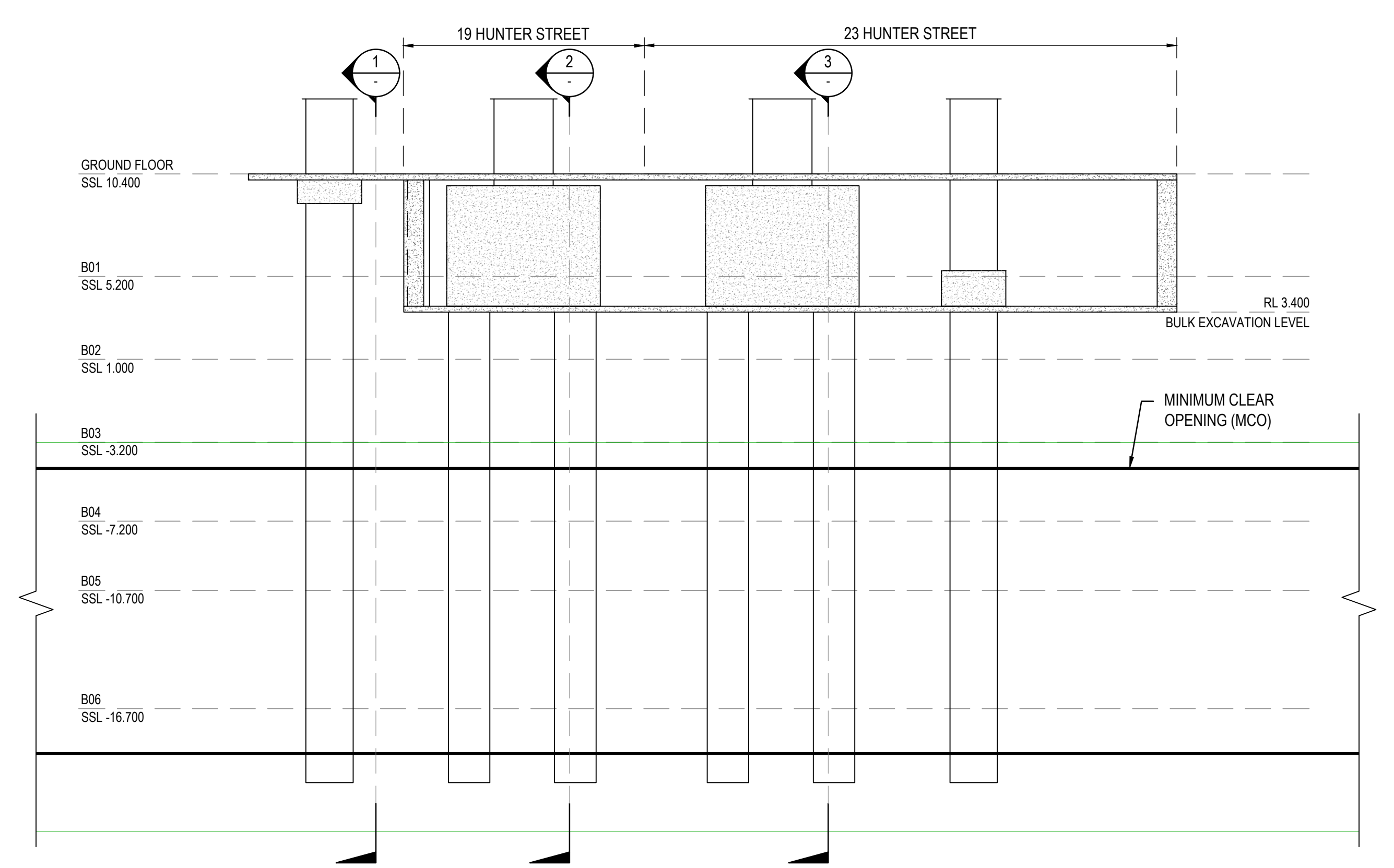
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SECTION 2  
SCALE 1:200  
000003



SECTION 3  
SCALE 1:200  
000003



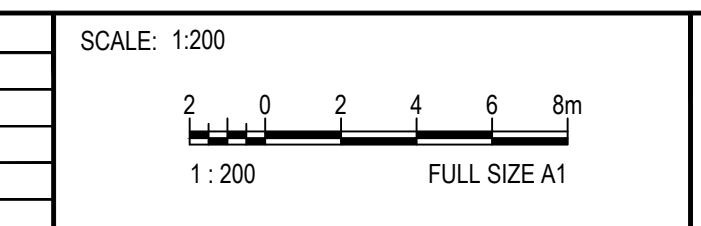
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CLIENT:

AEO COMPANY:  
**Engineering Design & Assurance Technical Partner**

Mott MacDonald

DESIGN COMPANY/CONTRACTOR:

DRAWN: HARSHAD 09.09.2022  
DESIGNED: A.SHIVASAMI 09.09.2022  
DRG CHECK: \_\_\_\_\_  
DESIGN CHECK: \_\_\_\_\_  
APPROVED: \_\_\_\_\_

SYDNEY METRO WEST  
TUNNELS SPECIFIC  
TUNNEL STRUCTURES  
EASTERN TUNNELLING PACKAGE  
HUNTER STREET - OPERATIONAL LOAD CASES - MILLIGAN SECTIONS

FILE No: \_\_\_\_\_ SHEET: 2 OF 2  
STATUS: PRELIMINARY / INITIAL DESIGN - CONCEPT DESIGN EDMS No: \_\_\_\_\_  
DRG No: SMWSTEDS-SMD-SWD-TU000-TU-SKE-000004 REV: A.1 VER: \_\_\_\_\_

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