

FTKA LABORATORY PROFILE



FTKA

BLOK C

HIGHWAY &
TRAFFIC LAB

BASIC INFORMATION

Location:
Block C



Person in Charge

No	Name	Phone and email
1	Siti Sarah Bte Abd Jalil	Office : 095492965 Email: sitisarah@ump.edu.my
2	Mohd Sani bin Mohd Noh	Office : 095492290 Email : sani@ump.edu.my
3	Amir Asyraf Bin Hj Idris	Office : 095498006 Email : aasraf@ump.edu.my

LIST OF EQUIPMENTS

Nature of Equipments

- Focus on physical learning and teaching for undergraduate & postgraduate students.
- Our laboratory also offers services to external parties who wish to obtain technical services.

No	Item	Quantity	usage
1	MARSHALL & CBR MACHINE	2	T&L & R&D
2	MARSHALL COMPACTOR	2	T&L & R&D
3	COMPRESSION MACHINE	2	T&L & R&D
4	SPECIFIC GRAVITY APPARATUS	1	T&L & R&D
5	ASPHALT PENETRATION TEST	2	T&L & R&D
6	SOFTENING POINT APPARATUS	2	T&L & R&D
7	ASPHALT TESTING SYSTEM	1	T&L & R&D
8	HIGH CAPACITY SIEVE SHAKER	1	T&L & R&D
9	FURNACE	1	T&L & R&D
10	LA MACHINE	1	T&L & R&D
11	METROCOUNT	1	T&L

T&L : teaching and learning

R&D : research and development

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No	Item	Quantity	usage
12	SPEED RADAR GUN	1	T&L
13	BUOYANCY BALANCE	1	T&L & R&D
14	WATER BATH	2	T&L & R&D
15	FUME HOOD	2	T&L & R&D
16	MARSHALL EXTRUDER	2	T&L & R&D
17	SIEVE SHAKER	2	T&L & R&D
18	DRYING OVEN	2	T&L & R&D
19	ASPHALT CENTRIFUGE	1	T&L & R&D
20	DUCTILOMETER	1	T&L & R&D
21	DIGITAL WATER BATH	2	T&L & R&D

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LIST OF SERVICES

No

Testing

1

Asphalt Test

- i. Softening Point Test
- ii. Penetration test
- iii. Marshall mix design test
- iv. Ductility test

2

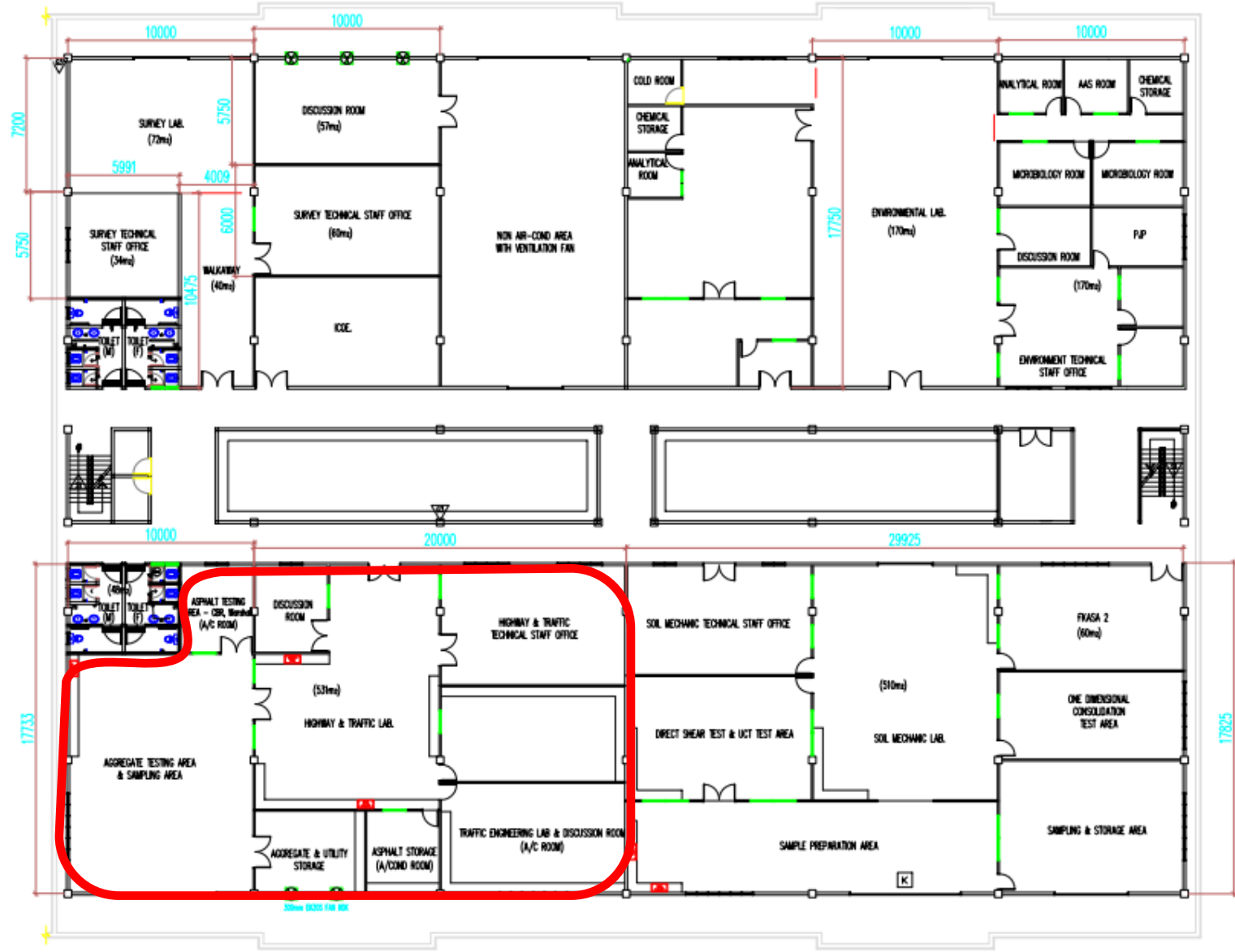
Aggregate Test

- i. Aggregate Crushing Value (ACV)
 - ii. Aggregate Impact Value (AIV)
 - iii. 10 % Fines Aggregate test
 - iv. Flakiness Index
 - v. Sieve Analysis
 - vi. Los Angeles Abrasion Test (LA)
 - vii. Water Absorption
 - viii. Soundness
 - ix. Specific Gravity
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LIST OF SERVICES

No	Testing
3	Traffic Test <ul style="list-style-type: none">i. Spot Speed studyii. Traffic Counting

LAB LAYOUT



GROUND FLOOR PLAN CIVIL LAB

LAB PICTURES



Oven



Sieve shaker, compactor & LA Machine

LAB PICTURES



Compression machine



Sieve shaker



LA machine



Heavy duty sieve shaker



Radar gun

LAB PICTURES



Resilience modulus test



Asphalt mixer



Marshall testing



Preparation sample



Preparation sample