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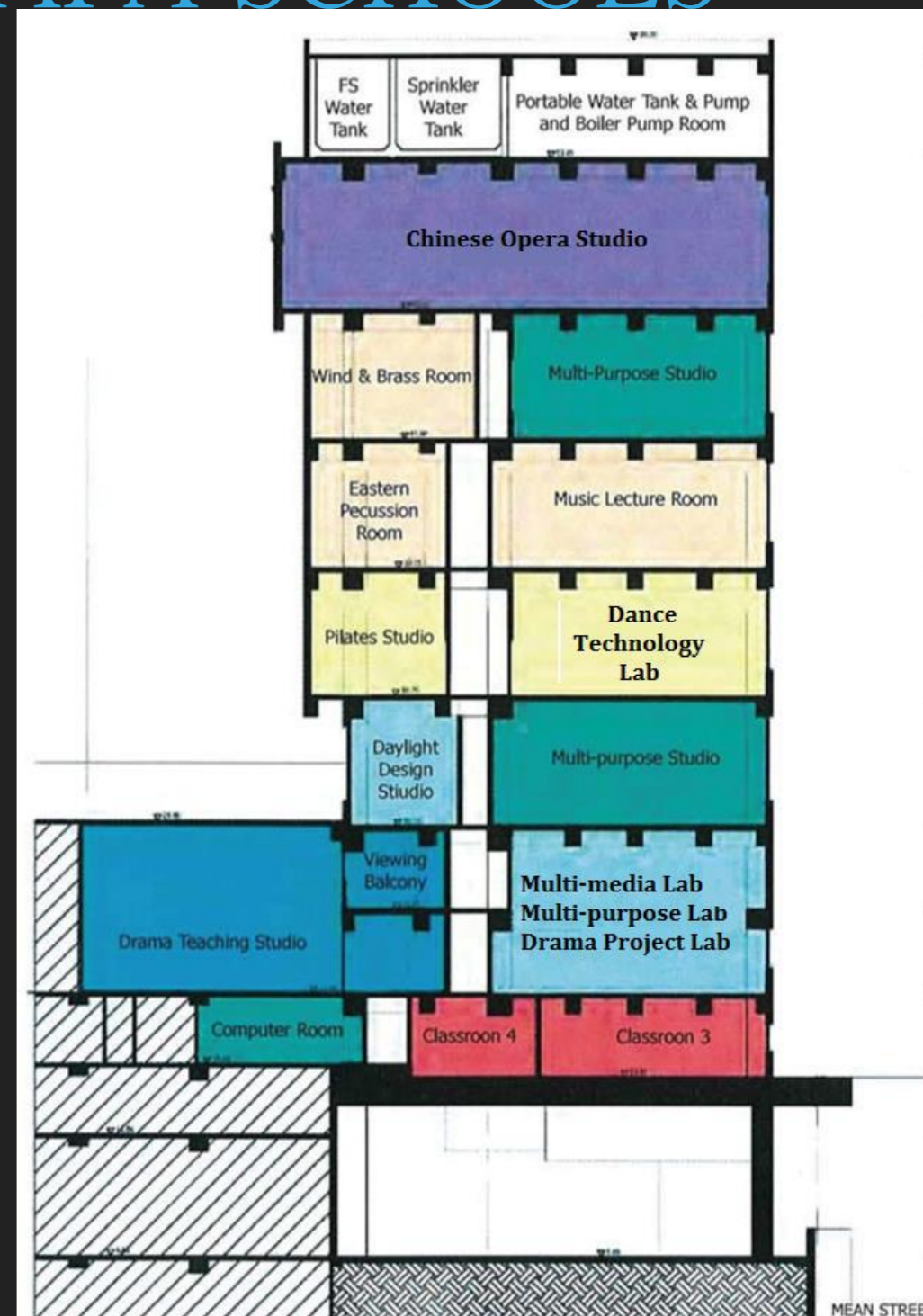
HONG KONG ACADEMY FOR  
PERFORMING ARTS

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SPECIALISED  
EQUIPMENT  
SUBMISSION

# THE OCE PROJECT PROVIDES NEW LEARNING SPACES FOR 6 APA SCHOOLS

- ▶ A nine storey expansion to the APA WanChai campus
  - ▶ Chinese Opera
  - ▶ Dance
  - ▶ Drama
  - ▶ Film & TV
  - ▶ Music
  - ▶ Theatre & Entertainment Arts



## TEACHING METHODOLOGY IN NEW LAB SPACES

- ▶ Teaching of performing arts utilises experiential learning
- ▶ Building practice → leading to performance
- ▶ OCE lab spaces and specialised equipment enable the spaces to facilitate student learning - make creative responses to, or correspondences with, evolving 'new media' technologies.
- ▶ Provide opportunities for experimentation and exploration catering for creative processes that are fluid, adaptive, dispersible, and responsive.
- ▶ Provide the space 1) where experimentation can happen without having to showcase a finished product and/or 2) rehearse in a setting that mirrors a performance stage.

## SUPPORTING NEW TEACHING METHODOLOGY

- ▶ Existing APA spaces provide environments to teach traditional performing arts using conventional practices - that is ballet, Chinese dance, drama, music and a range of theatrical and technical arts.
- ▶ Existing spaces do NOT include specialised equipment.
- ▶ Do NOT include digital and computerised network systems.
- ▶ Do NOT provide an environment for students to explore and experiment with new technologies.

# OCE LAB SPACES SOLVE THE IDENTIFIED SPACE RESOURCE

## Existing APA teaching labs and spaces

Originally designed to support traditional performing arts practice

## New OCE Lab spaces

Equipped with digital and technical systems to support student self learning and the opportunity to explore, encourage enquiry and experiential learning

## Existing APA performance venues

Originally designed to support traditional performing arts practice

Space and function deficit addressed by the OCE Labs

## HOW DID WE GET TO THIS POINT?

- ▶ June 2012 OCE funding was approved
- ▶ 2012 Programme cum technical review undertaken
- ▶ 2013 HKAPA Strategic Plan published
- ▶ 2015 Specialised equipment funding proposal

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WHAT IS  
SPECIALISED  
EQUIPMENT AND  
HOW IS IT USED IN  
LIVE  
PERFORMANCE?

# SPECIALISED EQUIPMENT

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THE COLLABORATION BETWEEN  
ARTIST - PRACTITIONERS,  
PERFORMERS, TECHNOLOGISTS,  
TO ENCOMPASS EMERGENT  
TECHNOLOGIES, INTERACTIVE  
TECHNOLOGIES, MOTION  
CAPTURE EXPERIMENTATION,  
DANCE, DRAMA, & LIVE EVENTS.



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# PROGRAMME CUM TECHNICAL REVIEW & STRATEGIC PLAN

## Programme cum Technical Review

- ▶ Technical resources should support the unique needs of the individual School programmes as well as interdisciplinary collaboration.
- ▶ Technical equipment specifications should be focused on key infrastructure; lighting, sound and video.

## Alignment with the Academy Strategic Plan

- ▶ Performance based education and skills development.
- ▶ The strategic plan drives the requirement to support performing Arts Education through experiential learning, through the use of technology and innovation.

REFERENCED SPACES

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# DANCE STUDIO EXAMPLE



REFERENCED SPACES

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# DANCE STUDIO EXAMPLE



Stelios Manousakis, Hertzian Field #1 <http://modularbrains.net/portfolio/hertzian-field-1/>

# MULTI MEDIA LAB EXAMPLE



REFERENCED SPACES

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# MULTI MEDIA LAB EXAMPLE



EXISTING ACADEMY TEACHING AND REHEARSAL SPACES

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# APA DANCE STUDIO



EXISTING ACADEMY TEACHING AND REHEARSAL SPACES

# APA CHINESE OPERA REHEARSAL ROOM



EXISTING ACADEMY TEACHING AND REHEARSAL SPACES

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# APA LIGHT LAB CONTROL ROOM





# EXISTING ACADEMY TEACHING AND REHEARSAL SPACES

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## APA SOUND LAB



# NEW OCE LABS SPECIALISED EQUIPMENT:

- ▶ Defines the function of the OCE lab & studio spaces
- ▶ Provides an essential element in an APA student's appreciation, experimentation and enquiry of the necessary tools to experiment and create innovative performance.
- ▶ Enables the development of synergies of all forms of performance, with advanced video capture, projection, lighting and sound technologies.

# PROPOSED SPECIALISED EQUIPMENT; BENEFITS

- ▶ APA students are future leaders and workers in the cultural and creative industries.
- ▶ Their APA learning experiences should encompass
  - ▶ creative collaboration,
  - ▶ exploration of interdisciplinary relationships,
  - ▶ development of innovative synergies.
- ▶ Can only be successful when the proper tools are provided in the context of technically resourced performance spaces and laboratories.

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# REFERENCES

## ▶ Images

- ▶ University of Maryland. The Dance Cube <http://dance.umbc.edu/facilities/>
- ▶ Rensselaer Polytechnic Institute. The Curtis R. Priem Experimental Media and Performing Arts Center <http://empac.rpi.edu>
- ▶ Stelios Manousakis, Hertzian Field #1 <http://modularbrains.net/portfolio/hertzian-field-1/>
- ▶ Allen & Heath Ltd. <http://www.allen-heath.com>
- ▶ Grand MA Ltd. [www.malighting.com](http://www.malighting.com)
- ▶ Stage Technologies Ltd. <http://www.stagetech.com>
- ▶ ETC Lighting <http://www.etcconnect.com>
- ▶ Trussing and Chain Hoists <http://www.alg.uk.com>
- ▶ High Bandwidth Network System <https://www.axon.tv>

## ▶ Video

- ▶ Pixels performed by The Adrien M & Claire B company <http://am-cb.net/en>
- ▶ The Movement of Air performed by The Adrien M & Claire B company <http://am-cb.net/en>
- ▶ 59 Productions: War Horse [http://59productions.co.uk/project/war\\_horse\\_west\\_end](http://59productions.co.uk/project/war_horse_west_end)
- ▶ 59 Productions: Forbidden Zone <http://59productions.co.uk/project/forbiddenzone>
- ▶ 59 Productions: Olympics Opening Ceremony [http://59productions.co.uk/project/olympic\\_opening\\_ceremony](http://59productions.co.uk/project/olympic_opening_ceremony)
- ▶ Tait Stages: Madonna tour [https://www.youtube.com/watch?v=lhh\\_xEPgcCc&list=PLuav1-9hMkzd2DjgjSoTazefA9C-aA0pG](https://www.youtube.com/watch?v=lhh_xEPgcCc&list=PLuav1-9hMkzd2DjgjSoTazefA9C-aA0pG)

# PROPOSED NEW SPECIALISED EQUIPMENT \$23,797,000

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- ▶ Computers and selected audio, video and control software
- ▶ Digital audio consoles
- ▶ Speakers
- ▶ Lighting control consoles
- ▶ LED light fixtures
- ▶ Video projection systems
- ▶ Projectors
- ▶ Media servers
- ▶ Trussing and motion control systems
- ▶ Drapes and black out systems for some of the labs
- ▶ Internal room computer network and infrastructure systems
- ▶ OCE computer network systems

# DIGITAL AUDIO CONSOLE EXAMPLE

- ▶ Audio signals are processed, balanced and distributed to any selected outputs



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# LIGHTING CONTROL CONSOLE EXAMPLE

- ▶ Controls, conventional lights, moving lights, LEDs, video and media



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# LIGHTING FIXTURES EXAMPLE

- ▶ LED lighting fixtures





# MOTION CONTROL CONSOLE EXAMPLE

- ▶ Programming and control stage technology systems



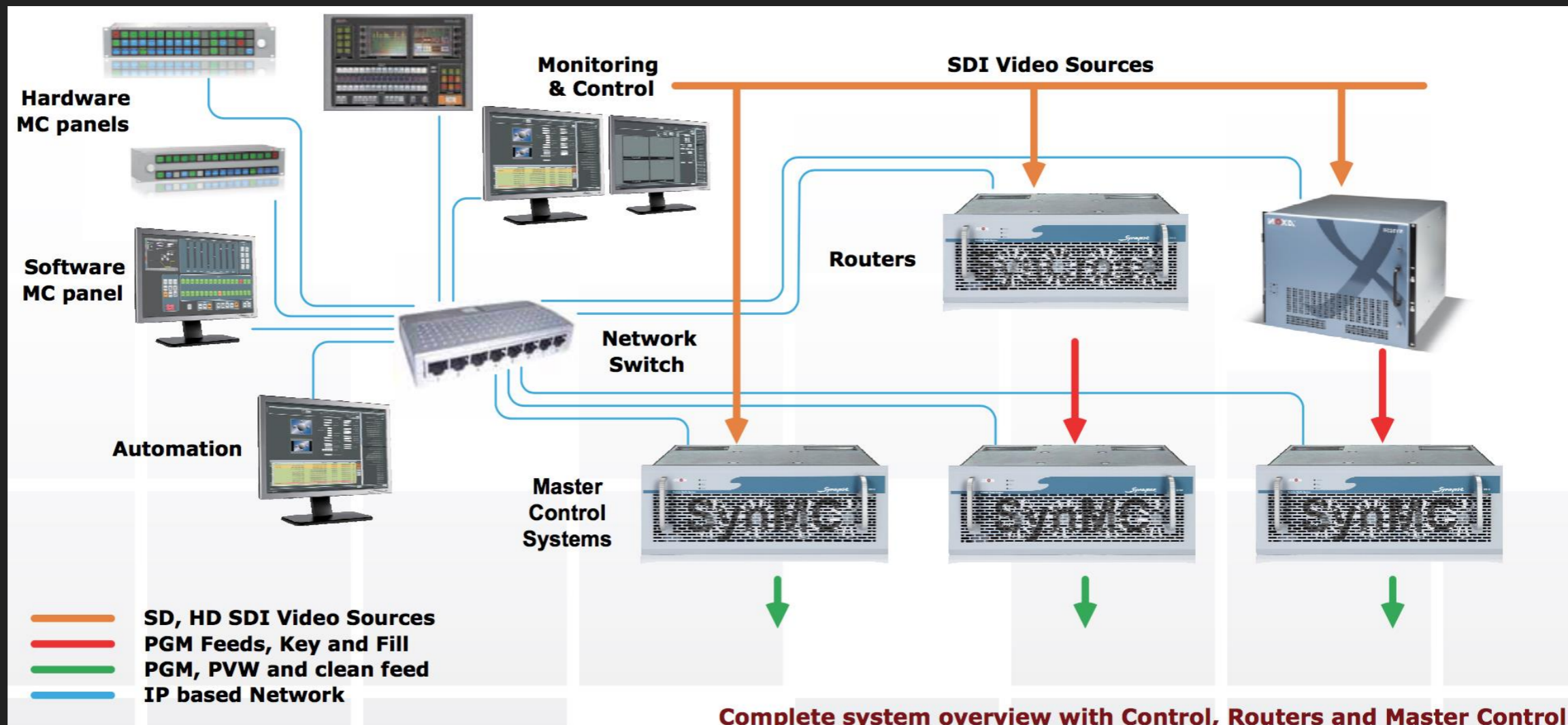
# TRUSSING AND CHAIN HOIST

- ▶ Trussing systems that can be mounted on the floor or suspended via chain hoists



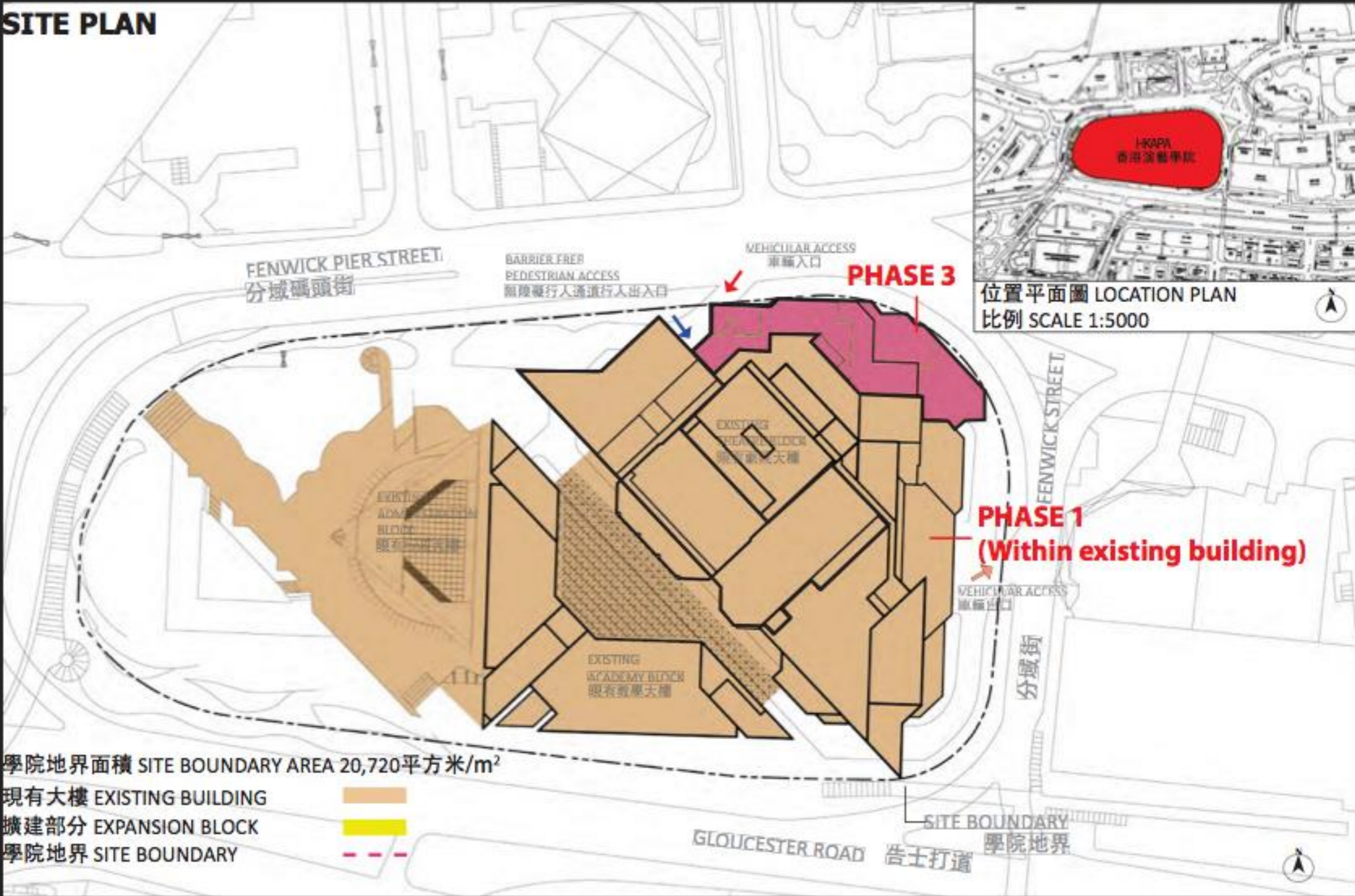
# HIGH BANDWIDTH NETWORK SYSTEM

- ▶ To support data and control systems between OCE labs, the existing WanChai campus and to the Internet

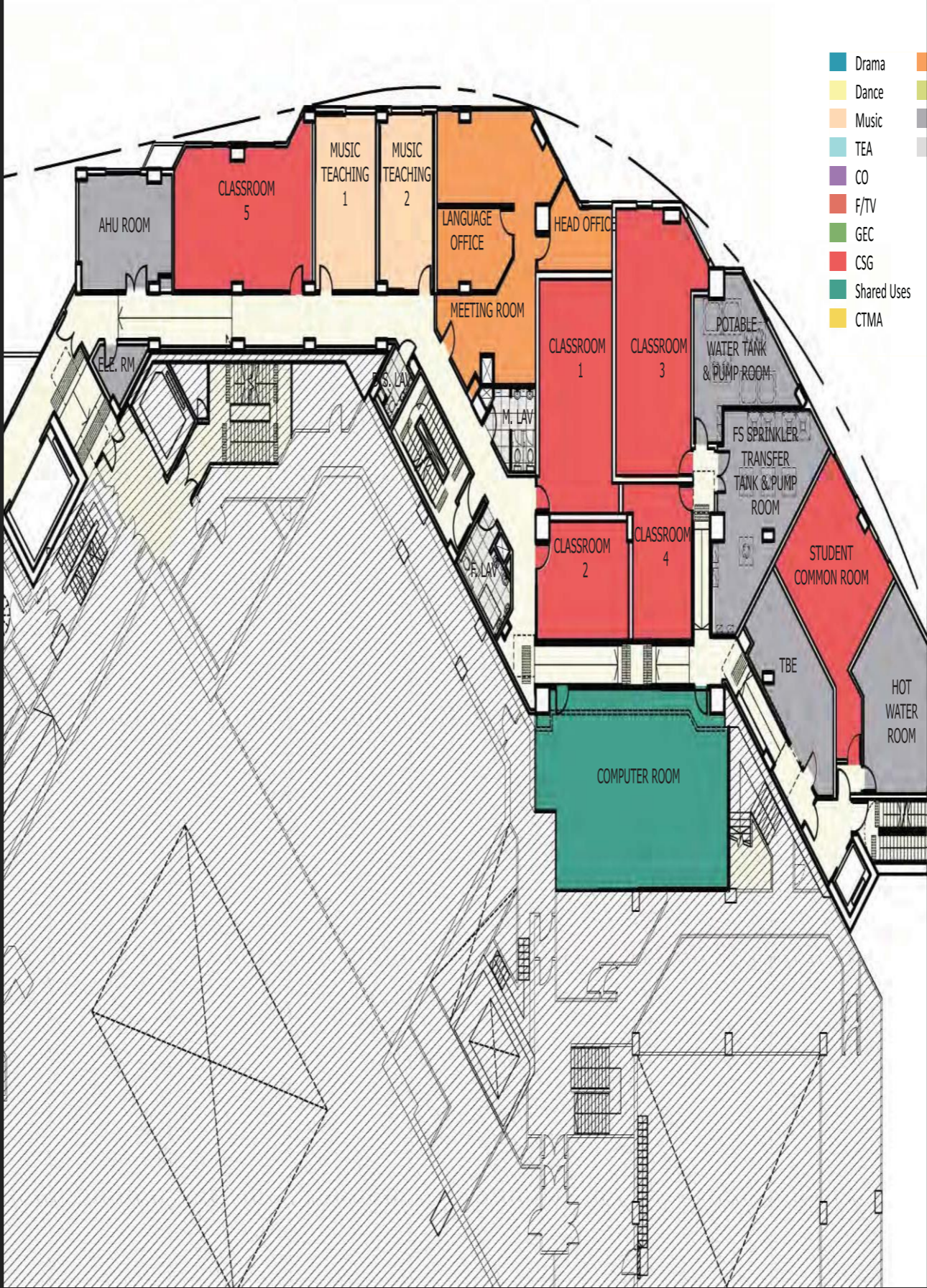


# OCE SITE PLAN

## SITE PLAN



# OCE 2ND FLOOR



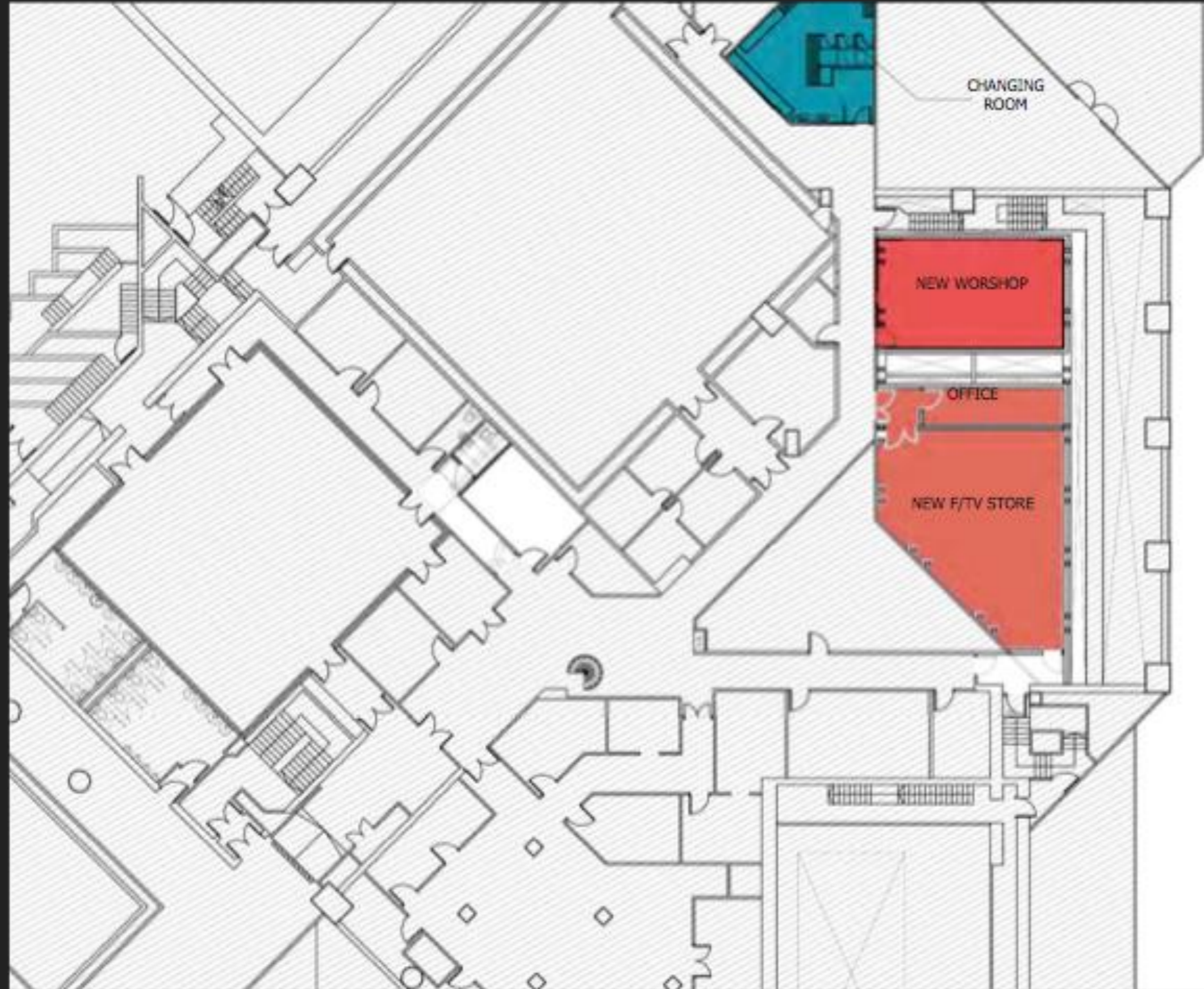
# OCE 3RD FLOOR (MAIN AREA)

ENLARGED

- Drama
- Dance
- Music
- TEA
- CO
- F/TV
- GEC
- CSG
- Shared Uses
- CTMA
- Other
- Green
- E&M
- Toilet

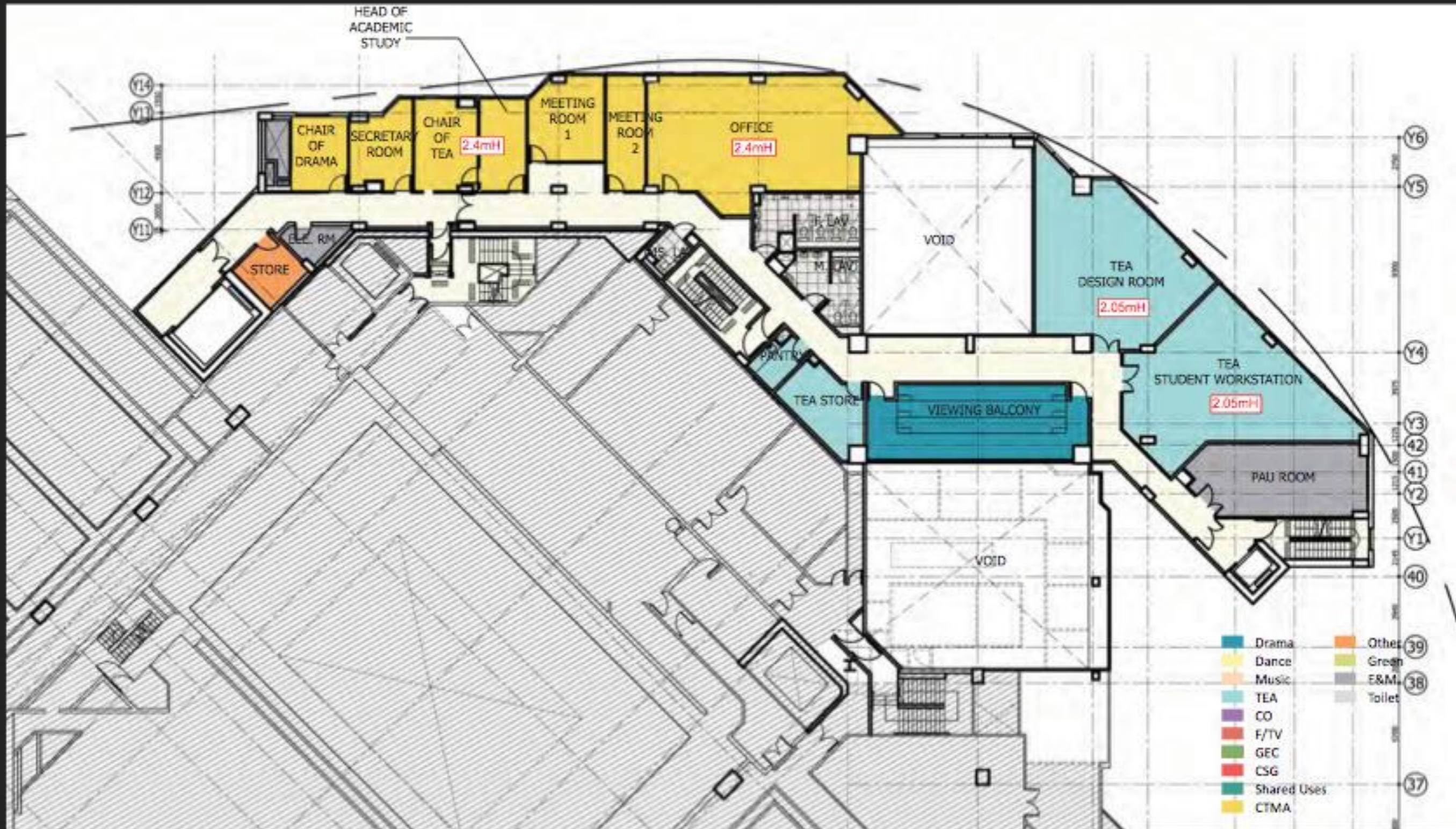


# OCE 3RD FLOOR (SECONDARY AREA)



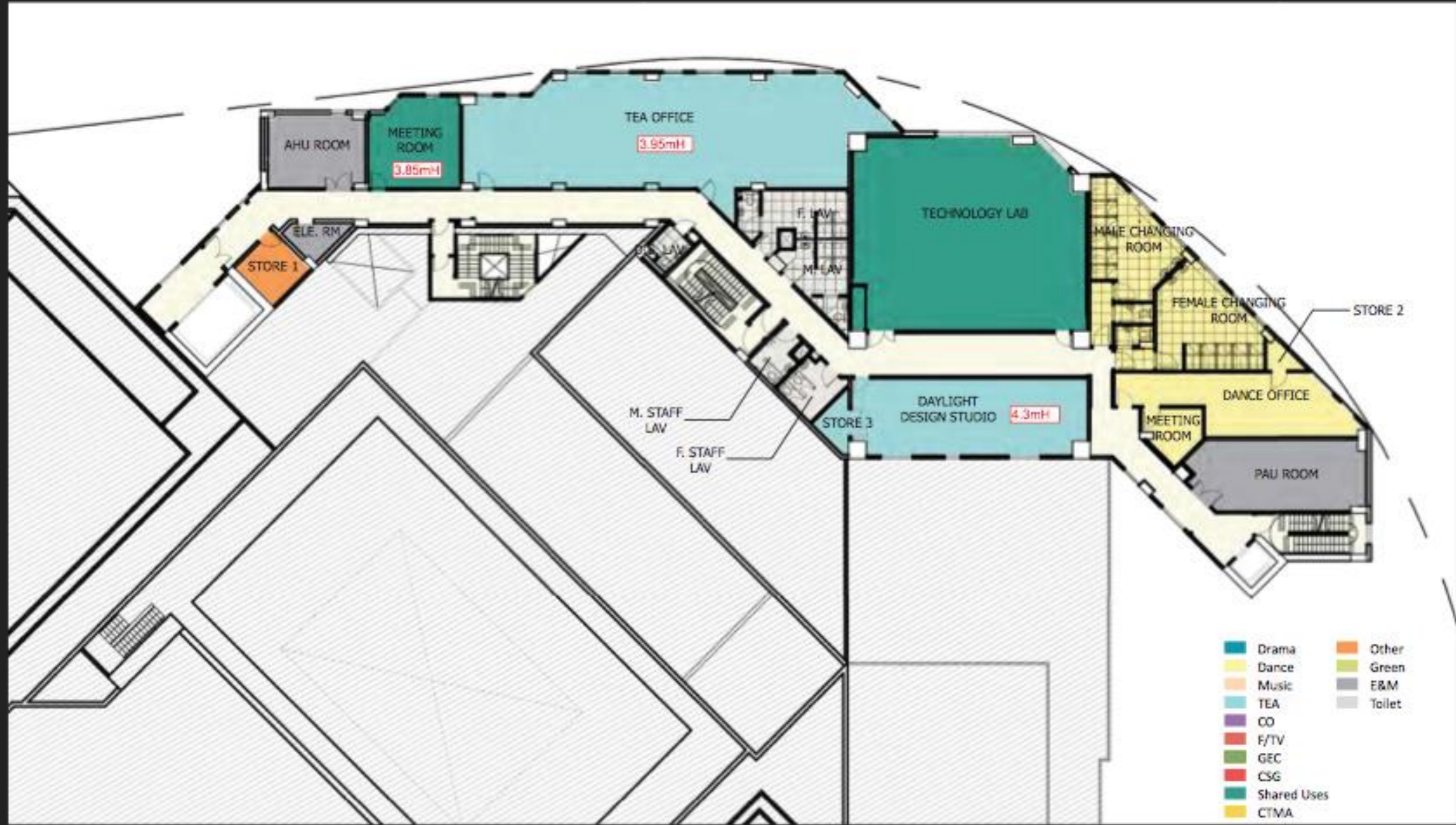
- |   |  |
|---|--|
|  Drama       |  Other  |
|  Dance       |  Green  |
|  Music       |  E&M    |
|  TEA         |  Toilet |
|  CO          |  |
|  F/TV        |  |
|  GEC         |  |
|  CSG         |  |
|  Shared Uses |  |
|  CTMA        |  |

# OCE 4TH FLOOR

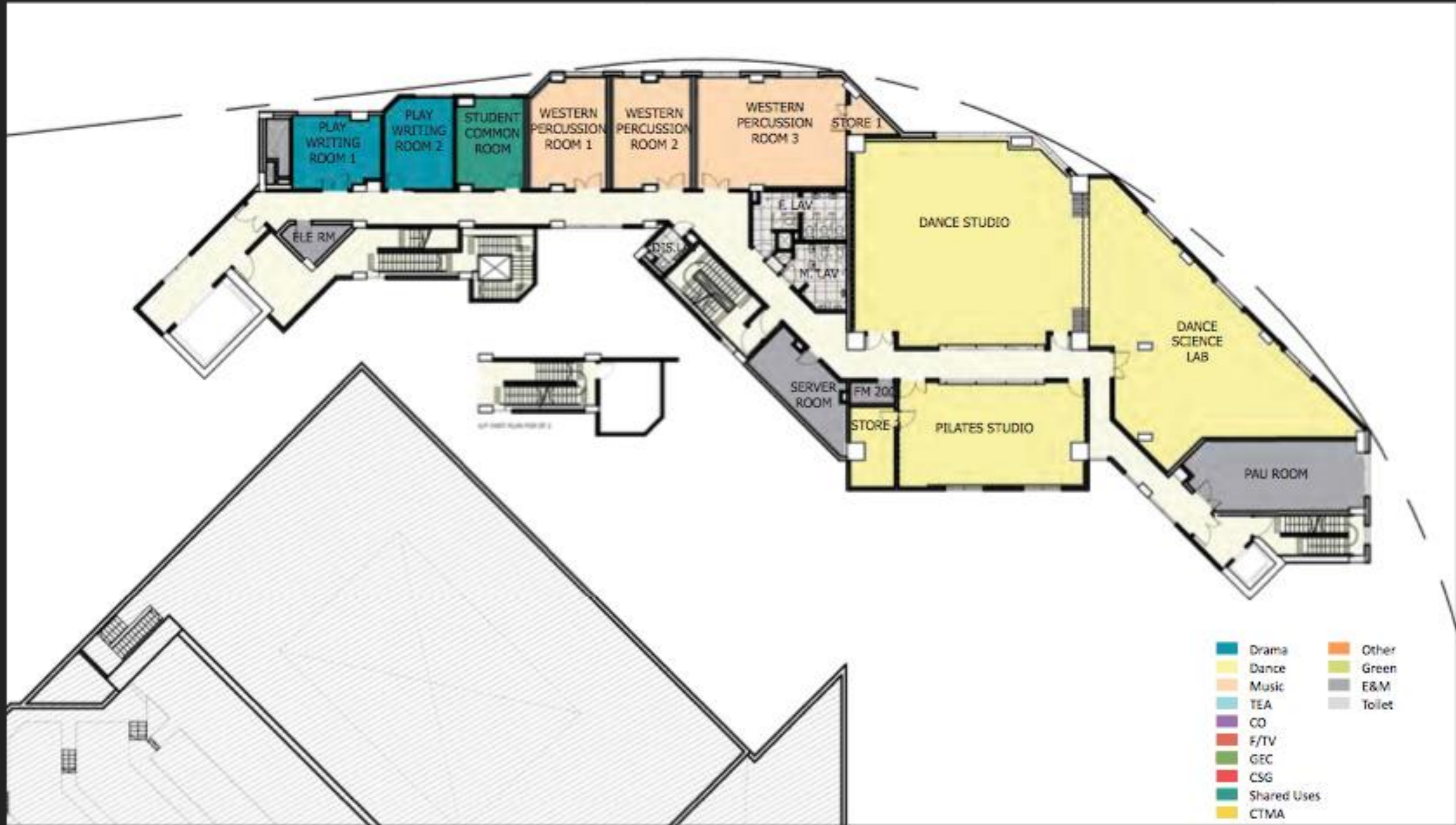




# OCE 5TH FLOOR



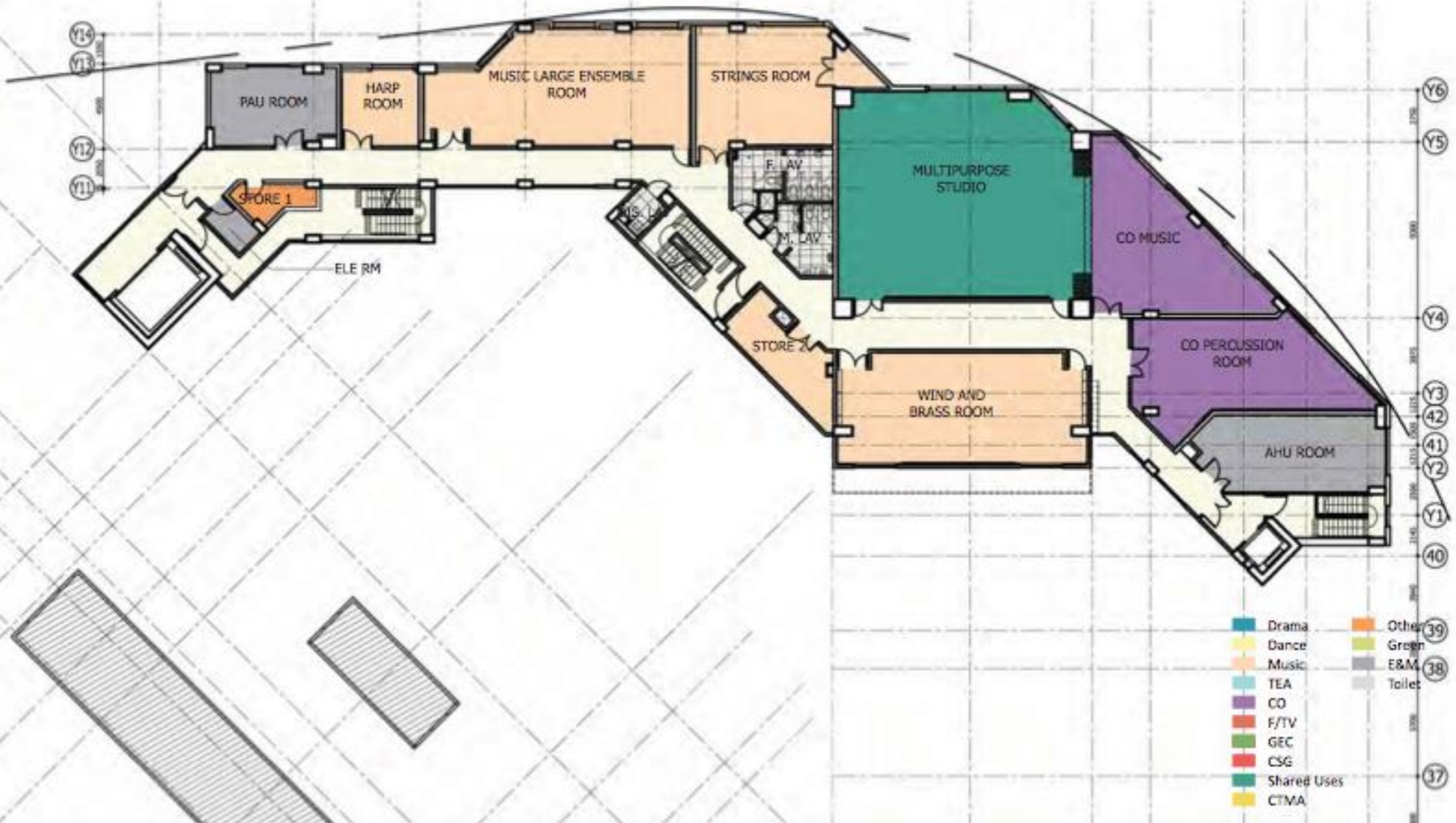
# OCE 6TH FLOOR



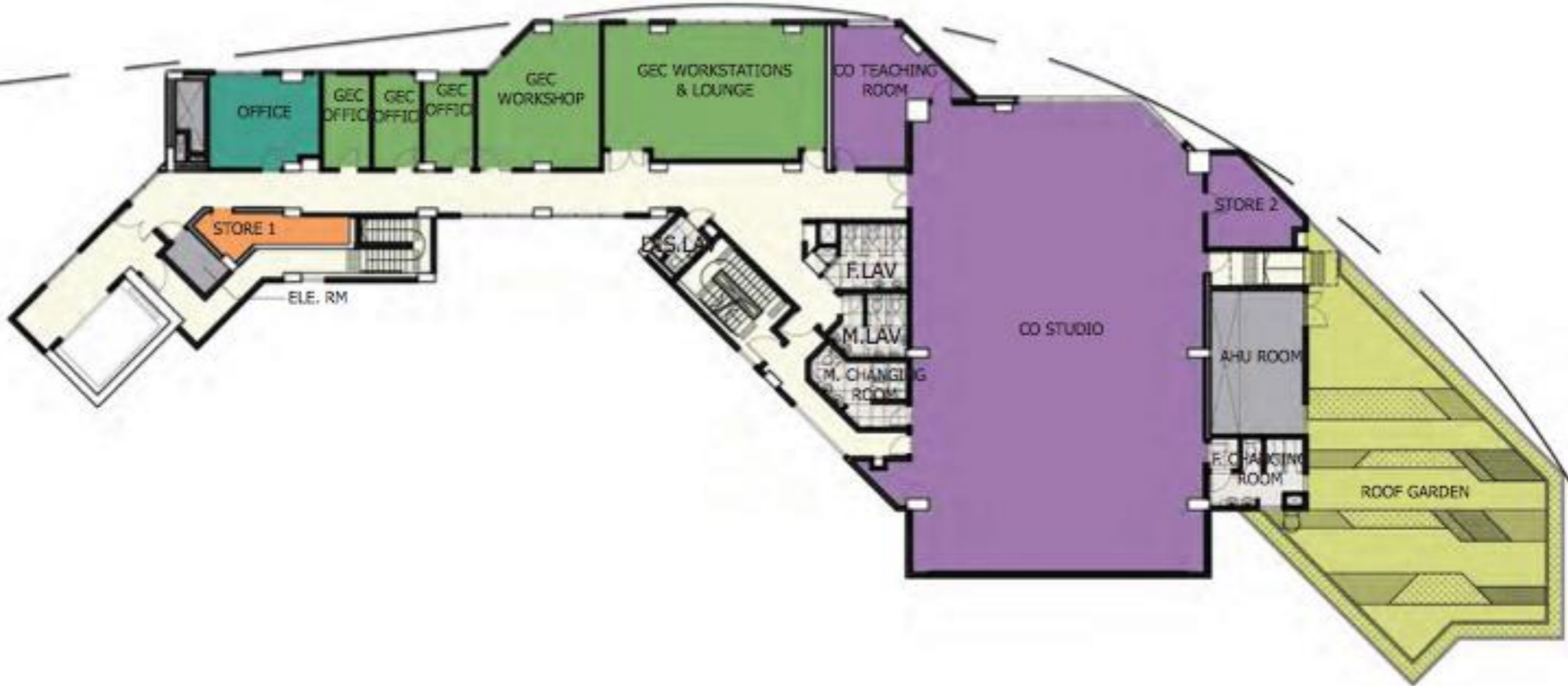
# OCE 7TH FLOOR



# OCE 8TH FLOOR

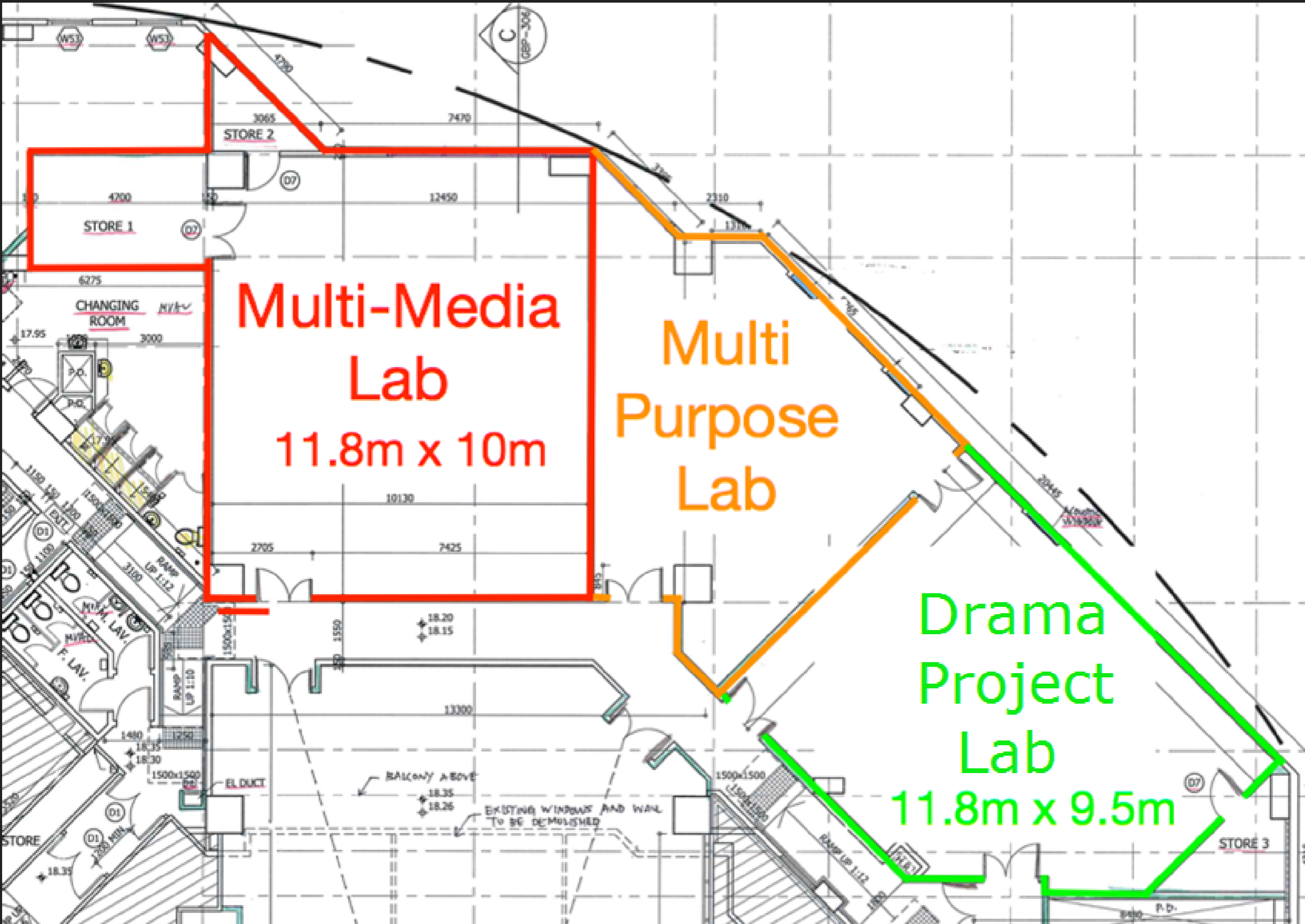


# OCE 9TH FLOOR

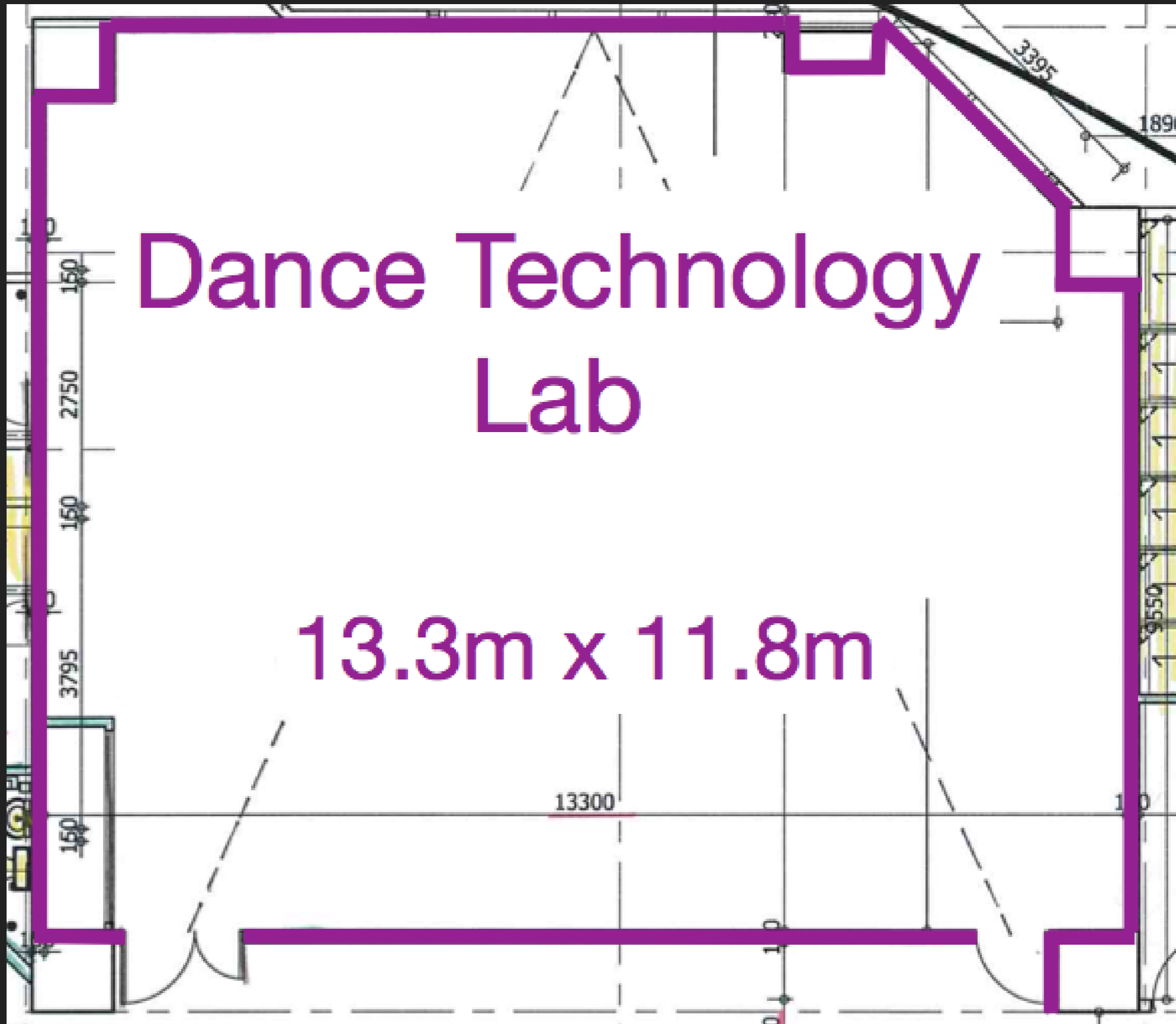


- |  |   |
|--|---|
| <span style="color: #00A0C0;">■</span> Drama       | <span style="color: #FF8C00;">■</span> Other  |
| <span style="color: #FFFF00;">■</span> Dance       | <span style="color: #9ACD32;">■</span> Green  |
| <span style="color: #FFD700;">■</span> Music       | <span style="color: #A9A9A9;">■</span> E&M    |
| <span style="color: #ADD8E6;">■</span> TEA         | <span style="color: #D3D3D3;">■</span> Toilet |
| <span style="color: #800080;">■</span> CO          |   |
| <span style="color: #FF0000;">■</span> F/TV        |   |
| <span style="color: #3CB371;">■</span> GEC         |   |
| <span style="color: #FF0000;">■</span> CSG         |   |
| <span style="color: #00A0C0;">■</span> Shared Uses |   |
| <span style="color: #FFD700;">■</span> CTMA        |   |

# 3RD FLOOR LABS



# 3RD FLOOR LAB



# 9TH FLOOR LAB



Chinese Opera  
Studio

13.2m x 21m



# OCE F&E BUDGET \$29,294,000

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## General F & E budget

- ▶ Smart boards
- ▶ White/Staff boards
- ▶ AV equipment, projector & screens
- ▶ Classroom computers & software
- ▶ Computer desks
- ▶ Tables/lecterns
- ▶ Chairs
- ▶ Lockers
- ▶ Office furniture
- ▶ Domestic appliances

## Special F & E budget

- ▶ Music Stands & Musician chairs
- ▶ Grand pianos
- ▶ Baby grand pianos
- ▶ Dance science equipment
- ▶ Moveable parallel bars
- ▶ Shock absorbing rugs
- ▶ Sewing machines
- ▶ Cutting tables

## FINDINGS: PROGRAMME CUM TECHNICAL REVIEW

- ▶ Application of technology across all forms of live performance is dynamic and constantly changing.
- ▶ Requirement includes specific, unique knowledge into the programmes offered by the different Schools.
- ▶ Application of technology also requires an interdisciplinary approach to optimise the experiential learning opportunities and innovative forms of performance
- ▶ Teaching, and project spaces should be designed appropriately.

## FINDINGS (2): PROGRAMME CUM TECHNICAL REVIEW

- ▶ Technical resources should support the unique needs of the individual School programmes as well as interdisciplinary collaboration.
- ▶ Technical equipment specifications should be focused on key infrastructure; lighting, sound and video.
- ▶ Integration with and compatibility between different computer software and equipment should be considered.