APPENDICES

APPENDIX A

PRECEDENT RESEARCH

Appendix A: PRECEDENT RESEARCH

1.1 Nano Lab

Survey of Similar Facilities-1

Name of Building University of Tokyo Nano Tech Lab
Location: Professor Arakwawa Lab, Komaba Campus, University of Tokyo

Building Details

The University of Tokyo`s Nano-Tech lab consists of 10 controlled environment research labs (“clean rooms”). Clean rooms are laboratory rooms where the amount of air particles in its environment is strictly controlled. The classes of clean room are measured with the amount of air particles in one cubic meter. Standard clean room classifications are; Class 100, 1000 and 10,000 allow 100, 1000 and 10,000 air particles per cubic meters respectively. The amount of air particles in a regular office environment ranges from 500,000 to 1,000,000.

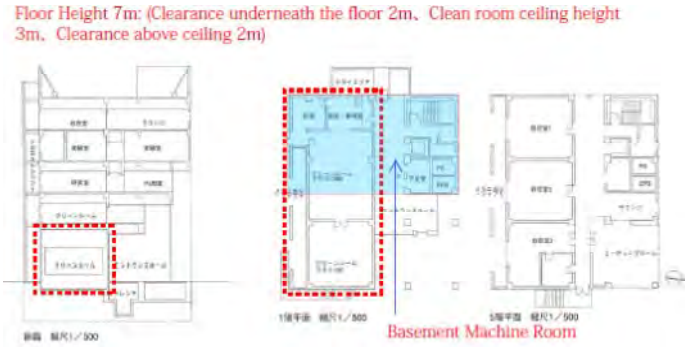
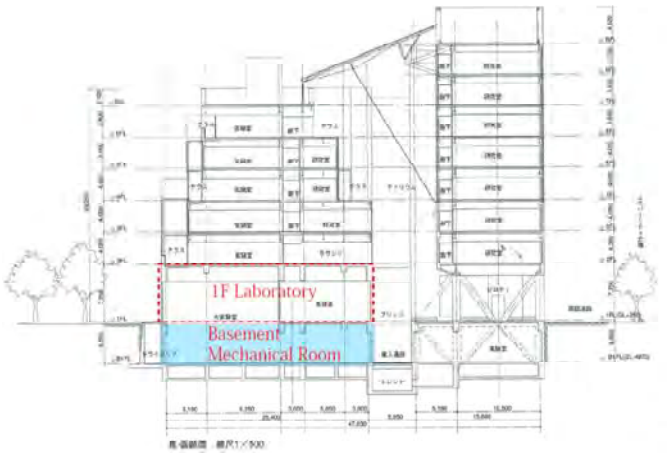
		粒径0.1μmの粒子数		粒径0.2μmの粒子数		粒径0.3μmの粒子数		粒径0.5μmの粒子数		粒径5μmの粒子数	
JIS B9920	USA Fed.Std.209E	/m³	/f³	/m³	/f³	/m³	/f³	/m³	/f³	/m³	/f³
クラス1	-	10	-	2	-	-	-	-	-	-	-
クラス2	-	102	-	24	-	10	-	4	-	-	-
クラス3	クラス1	103	35	237	8	102	3	35	1	-	-
クラス4	クラス10	104	350	2,370	75	1,020	30	352	10	-	-
クラス5	クラス100	105	-	23,700	750	10,200	300	3,520	100	29	-
クラス6	クラス1,000	106	-	237,000	-	102,000	-	35,200	1,000	293	7
クラス7	クラス10,000	-	-	-	-	-	-	352,000	10,000	2,930	70
クラス8	クラス100,000	-	-	-	-	-	-	3,520,000	100,000	29,300	700
クラス9	-	-	-	-	-	-	-	35,200,000	-	293,000	-

http://www.itsuki-sangyo.co.jp/

The facility at UoT consists of 10 controlled environment research labs (2x ~100ppm, 3x ~1000ppm and 5x ~10000ppm). The total area is around 60m². When moving between labs of different classification, it is necessary to go through an air shower to prevent contamination. Nano-technology involves manipulating matter at 1 x 10^{-9} meter scale so equipments and machines that operate for nano-technology are very sensitive. It is essential to have a clean environment for equipments and lab experiments.

An extensive HVAC system and special air filters (HEPA-High Efficiency Particulate Air Filter) are necessary. These filters can remove particles as small as 0.3 microns with a 99.97% minimum particle-collective efficiency. With HEPA, air flow rates and direction, pressurization, temperature, humidity and specialized filtration are regulated. Other filtration mechanisms are used to remove gases and liquids to prevent contamination.

All this mechanical equipment requires extensive dedicated ducting space. Prof. Arakawa lab provided a large area above the ceiling and under the floor of the nano-labs to facilitate HVAC and gas cylinder ducting. In the IITH- Research Centre Complex building, we provided about 0.8 meter clearance under the raised floor and 4 meters above the ceiling to accommodate ducting for HVAC and gas cylinders.

hotos	Description
 	■Center for collaborative research, University of Tokyo Architect: Hiroshi Hara + University of Tokyo campus design team Structure: SRC, 5 storey + basement Total floor area: 2,496.33 m^2 Building Area: 496.07 m^2 Period: March 1993 to March 1999
	■ Building Plans ■ First floor laboratory plan
	■ Building section
Source: Shinkenchiku 2001 May issue	

■ Layout plan of clean rooms facility

■ Air shower room (on the left) and gas cylinder (on the right).

■ Two meters clearance under the finished floor

■ Two meters clearance above the laboratory ceiling

■ Lab equipments and fixtures

1.2 The National University of Singapore (NUS)

Survey of Similar Facilities-1

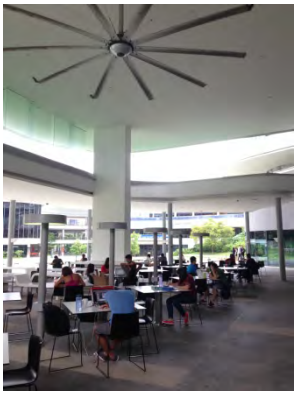
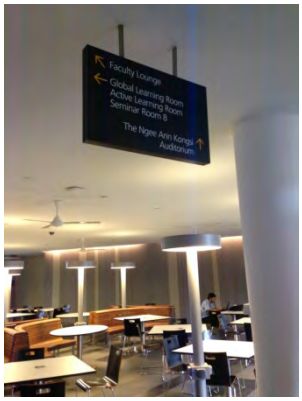
Name of Building Utown, Singapore

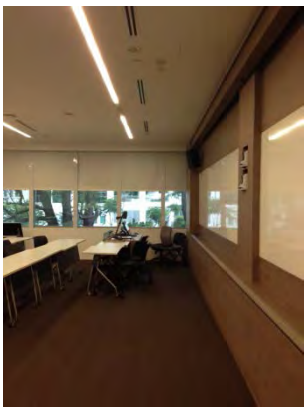
1) General	
1-1)	NUS has several campus in Singapore. The university town known as Utown was designed to integrate living and learning spaces for today's digital learners. It contains four residential colleges, a Utown Residence, classrooms auditoriums, discussion/study spaces, sports halls, studios and Food &Beverage outlets for the entire NUS community.

EDUCATION RESOURCE CENTER

2) Campus (Overall)	
Photos	Descriptions
   	■Town Green and Stephen Riady Center. The campus has an open green area called Town Green and an open public space called Town Plaza. Most of the main facilities are located around these two main open area. ■CREATE (Campus for Research Excellence And Technological Enterprise Incubation Center)

3) Education Resource Center (ERC)

Photos	Descriptions
	■Education Recourse Center Education Resource Center has a similar concept as Knowledge Center of IITH. Four Floors Function: Seminar Rooms, Discussion Spaces, Cubicles for private study, Learning Café, PC/MAC commons, Multimedia Hub All outfitted with electrical sockets and Wifi network Certain Spaces are open for 24/7. Exterior Study and discussion Area All Wifi Access and electrical outlets are equipped. Connection to the exterior space gives nice fresh air into exterior corridor.
 	
 	■Seminar Rooms There are different types of seminar rooms with capacity of 25, 30, and 40, and 13 seminar rooms in total
 	■Equipment: Dual Projection PC(In 7), Interactive Pen Display, Visualizer, Touch Screen AV, VGA cable + Audio for Laptop, Pendant Mic, LCD Viewing Monitor

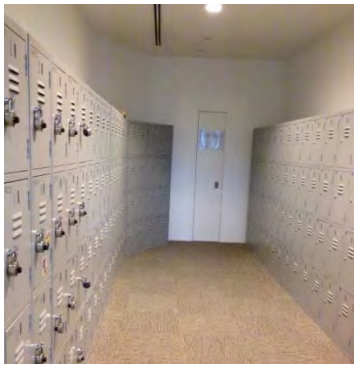
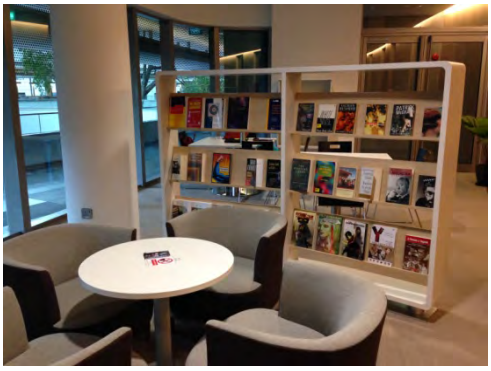
■Global Learning Room

Capacty:65

Equipment: Dual Projection

PC(In 7), Interactive Pen Display, Visualizer, Touch Screen AV, VGA cable+Audio for Laptop, Pendant Mic, LCD Viewing Monitor

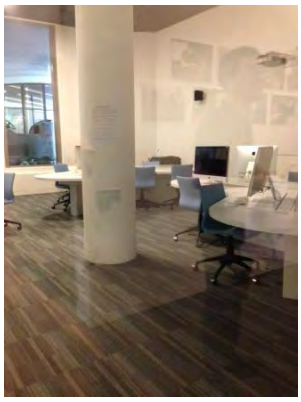
This seminar room if designed to facilitate interactive lectures and discussions between different locations with local and overseas sites.

■Left: Locker RM

■Right: Writing Unit and communication Hub

For non-faculty based teaching unit to empower NUS students to acquire effective English language and communication skills for their academic and professional lives.




■Left:

■Right : Learning Cafe

Wifi access, numerous

Power sockets

refreshments from Starbucks

The place for social interaction and intellectual discourses in a relaxed.

■Auditorium

Capacity: 200

Equipment: Dual/Single Projection

PC(In 7), Interactive Pen Display, Visualizer, Touch Screen AV, VGA cable+Audio for Laptop, Pendant Mic, LCD Viewing Monitor

1-3. The Hong Kong Polytechnic University

School of Design Jockey Club Innovation Tower and Library

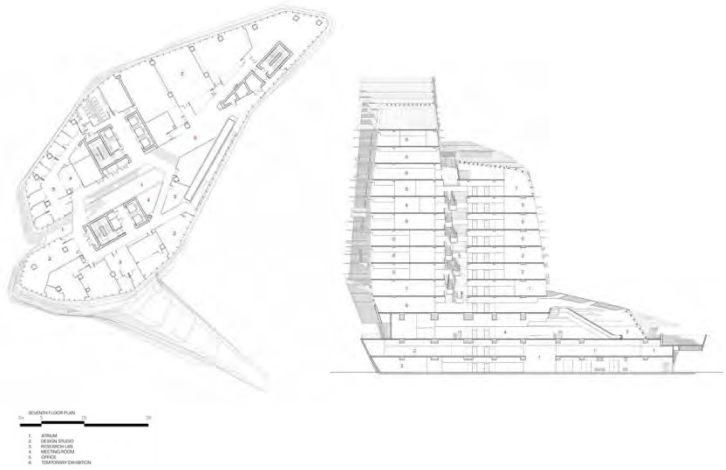
General	
1-1)	The Hong Kong Polytechnic University is the public university established in 1994 while this university have had a long history as educational facility before officially approved as the university 2007-2014, 15,000 meter square, Height 78 meters, capacity: 1800 persons MAP  This campus is located in central of Hong Kong city and most of buildings on this campus are high rise buildings. On the other hand, the ground level has a plenty of green and water body which provide comfortable space. *http://www.polyu.edu.hk/* *http://www.zaha-hadid.com/*

Jockey Club Innovation Tower

■Overall view

Its unique and symbolic building was based on the design awarded on an international architectural design completion.

■Plan and section



■External louver as shading devise and the detail of the louvers

Partially twisted louvers give uniqueness to the building.

The quality of the execution level is high.

■Entrance Hall and Gallery

Entrance hall with escalators

The exhibition gallery is located along the entrance hall. It is utilized by students.

■Laboratory and Studio

The nature of the shape of the building gives unique spaces for laboratories and studios as well with natural light.

■Landscape of the main court yard and Library

The exterior landscape with green trees makes the space comfortable although the area is very small on campus. The library faces the main courtyard occupied with students.

■Workspace in the library

Workspace houses many PCs for students.

Hexagonal work tables are provided in Work space. They make students have easy communication and collaborations depending of their activities.

1-4. The Tama Art University Library

General	
1-1)	Tama Art University is the private university and founded in 1953. It is one of the well recognized art universities in Japan. Currently, it has two campuses; one in Setagaya and the other in Hachioji. The Tama Art University library is located in Hachioji campus.

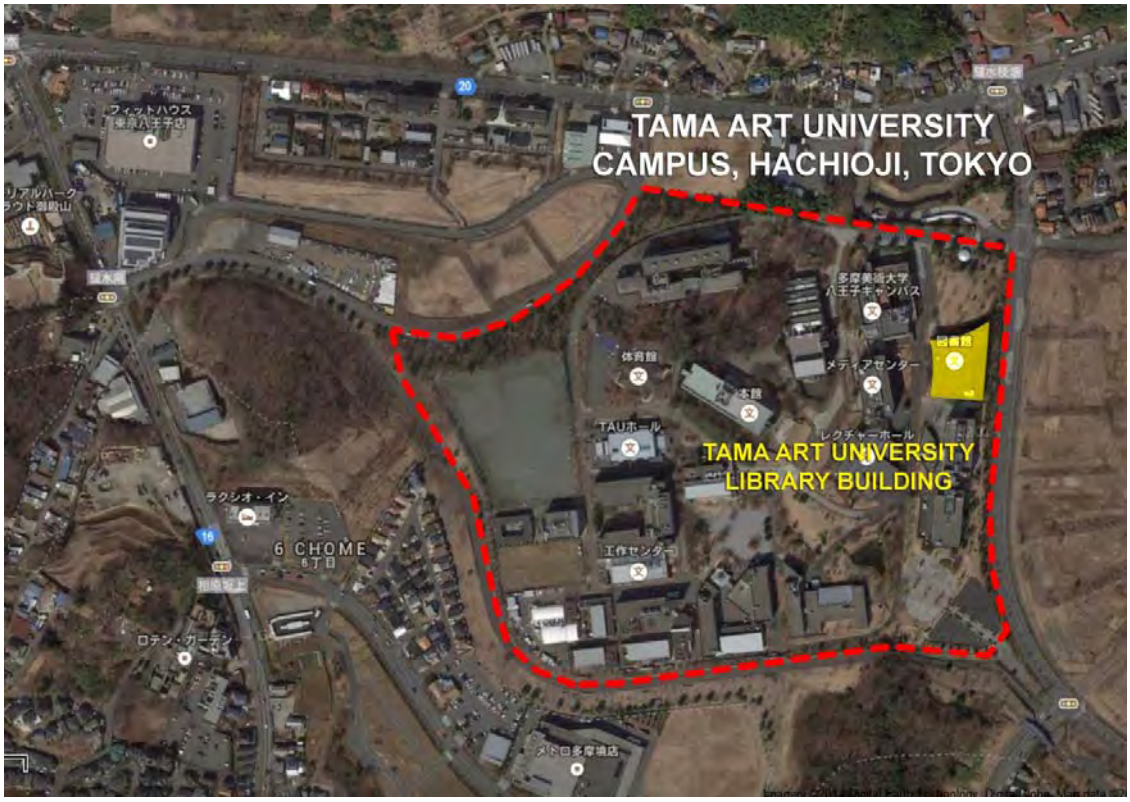


Fig.1. Campus map

Tama Art University Library

Fig.2. Main facade

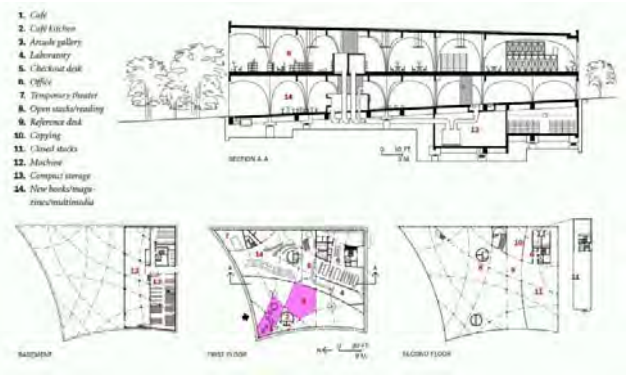


Fig.3. Building plans and section

Fig.4. Structural system

■General Information

Building: Tama Art University Library, Hachioji, Tokyo, Japan
Architect: Toyo Ito & Associates Architects
Associate Architect & Mechanical Engineering: Kajima Design
Structural Engineers: Sasaki Structural Consultants
Function: Library
Construction Material: Steel & Concrete
Storey: 2 stories
Floor Area: 5,639.46 sqm
Construction Period: April 2004 to Feb 2007

The IITH KNC project resembles Tama Art University library in many ways. For instance, both buildings serve as a main library on campus, use exposed concrete as their finish material as well as spaces under arches.

■Structure

The structural system of Tama art university library is 12mm structural steel plate's arches encased in in-situ concrete. Concrete is cast over the steel plat arches to prevent them from bulking. This combined system also allows having thinner profile arch walls of 200 mm thickness and keep the overall structure crisp and slim.

The bottom of arches intersections, below the floor finish level, is encased with concrete about 3 meters depth and form cross-shaped dwarf concrete columns at every arch's intersections. These embedded column units are supported with seismic isolators which prevent the building from moving less than 50 cm horizontally during severe earthquake. (Fig.5) Besides isolators, the entire building is separated from its site by seismic isolation pit for further earthquake damages.(Fig.6)

Fig.5.Seismic isolators

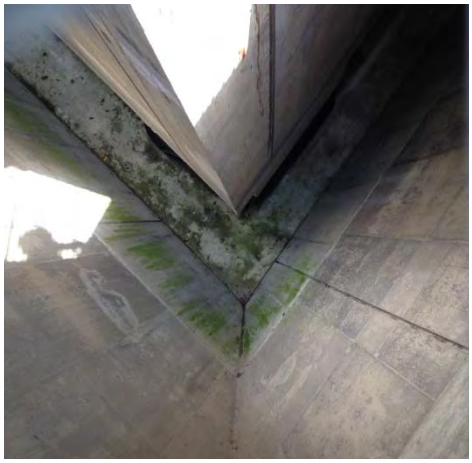


Fig.6. Isolator pit

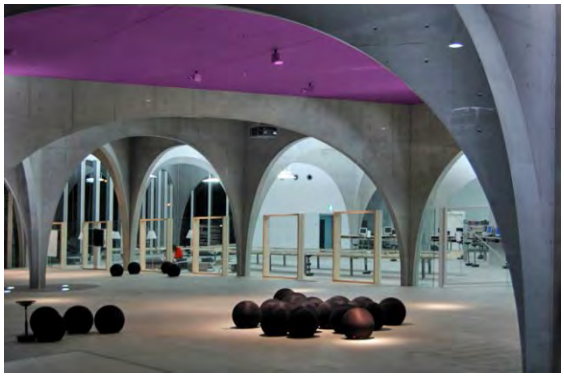


Fig.7. Noise reduction boards` locations

■Noise Reduction

The library functions as a quiet space, therefore, human noise is not much of a design issue. Soundproofing boards are installed at some limited areas (above café, library entrance, arcade gallery and theater area) at the ceiling. In fig 1 and 5, the purple highlighted areas show the locations where the noise reduction boards are installed.

■Sun Shading

Providing shading devices to arch windows of different sizes and shapes can be tricky. In Tama Art University Library, the curtain tracks are installed in a straight line above the arch openings by eliminating different size of curtains, thus, reducing installation and maintenance expenses (Fig. 8)

■HVAC System

In Tama Art University library, heat, ventilation and air-conditioning machinery and equipments are located at the basement floor. (Fig.3) The air –circulation (return and supply) is possible by floor (mainly) and wall openings. The bulky HVAC ceiling pluming arrangement is omitted and increases the space volume and spatial fluidity.

Fig.8. Curtain

Fig.9. Building corner

■References:

http://faculty-legacy.arch.tamu.edu/anichols/index_files/courses/arch631/case/2013/TAMAArtUniversityLibrary.pdf

http://www.arcspace.com/features/toyo-ito--associates/tama-art-university-library/

http://www.dezeen.com/2007/09/11/tama-art-university-library-by-toyo-ito/

http://coolboom.net/architecture/tama-art-university-library-by-toyo-ito/

http://en.wikipedia.org/wiki/Tama_Art_University

APPENDIX B

MEETING MINUTES

NIHON SEKKEI INTERNATIONAL INC.

MEETING MINUTES

DATE: Mar. 11. 2014 PLACE: IITH NEW CAMPUS SITE OFFICE

SUBJECT: IITH PHASE III DD PROJECT: IITH Campus Development Project

ATTENDEES	
Names	**Affiliation**
Prof. Subramaniam, Mr.Babu	IITH
Y. Tobe(PM), T.Endo(A), M.Oshima(A),	Nihon Sekkei (NSI)
H. Eguchi	APL

NO.	TOPIC	ACTION
1.	**Work Plan**	
	NSI explained the work plan. IITH accepted the work flow and schedule. ● Scope of Work IITH requested NSI to include the sunlight and shading analysis, energy analysis and any related sustainable architecture design report into the scope of work in order to meet GRIHA's requirements. The analysis could be done by a local consultant such as Teri. ● Selection of DD3 local consultants IITH requested the selection of local consultants to be made among three architects currently on site. They are ARCOP, ASTUTE, and Raj Associates. ● Request of Project Condition from IITH (based on UoT's presentation) Overall : Increasing of total floor area to be within 3 % from the MD report. . RCC: Two of the wet labs to be planned/designed as a model lab with the raised floor system. The place of the toxic gas equipments needs to be reviewed. Showcase window for project/research achievements to be planed Loading chamber to be added at loading dock KNC: Exposed concrete finish to be reviewed	NSI NSI UoT NSI UoT/NSI UoT/NSI UoT/NSI UoT
2.	**Overall Schedule and Packaging of Japanese Project**	
	● NSI and IITH discussed the overall construction schedule. ● The Japanese Project constructions shall be divided into two following packages. Package 1 – IGH, SC : These two will be tendered together. Package 2 – CONV, TIP, RCC, KNC : These four project will be tendered together. ● As for Package 1, the TOR Draft shall be completed by the end of March 2014. IITH shall start the selection of the local consultant accordingly. It will take about three months. By the end of 2014, IITH plans to complete its tendering package. ● The schedule of the package 2 has not confirmed yet.	

3.	**Project Process of JAPANESE PROJECTS after DD**	
	● IITH explained that the International consultant fees for both continuing service of NSI and the technical service of AGW were excluded from the total campus development budget. For Package one, IITH will select the following consultants within three months. The PMC consultant and the Contractor will be selected accordingly. <u>Consultant#1:</u> Consultant of UoT's direction areas, Reservoir of IGH and Sport field of SC. The consultant scope includes SD*, DD, CD/Tender and CA. <u>Consultant#2:</u> Consultant of CD/Tender and CA for IGH&SC **SD = Schematic Design, DD = Design Development, CD = Construction Documents,* CA = Construction Administration ● IITH is preparing the TOR for Package 1. ● IITH will select #1 and #2 Consultants among three architects from India and two architects from Japan recommended by JICA. ● IITH concerns the original project concept and design will not be fully carried out in the case that NSI is appointed. For this reason, NSI will be excluded from these architects. ● The selections for Package 2 are not scheduled yet.	IITH
4.	**Involvement of International Consultants for Japanese Projects**	
	● The local consultant fee for after DD Japanese projects CD/Tender and CA will be around 2% of the total construction cost for each building. ● IITH explained that NSI's CD/Tender/CA assistance fee for six Japanese projects was taken out from the total campus development budget.	
5.	**Involvement of International Consultants - Truss Wall System**	
	● IITH has taken out the Truss Wall System consulting fee (Asahi Building-Wall Co.,LTD., AGB) from the campus development project budget. ● IITH considers the selected contractor shall have a contract with AGB for their technical assistance. The TOR of the contractor selection shall note that a contractor must contact and include the AGB technical service in their scope and fee.	IITH
6.	**Site visit and Discussion of construction process**	
	● The next meeting and site visit is scheduled on March 13. Mr. Babu will explain the construction process including work permit requirements and work flow.	IITH/NSI

NIHON SEKKEI INTERNATIONAL, INC.

MEETING MINUTES

DATE: Mar. 13. 2014 PLACE: IITH NEW CAMPUS SITE OFFICE

SUBJECT: IITH PHASE III DD PROJECT: IITH Campus Development Project

ATTENDEES	
Names	**Affiliation**
Mr.Babu	IITH
Y. Tobe(PM), T.Endo(A), M.Oshima(A),	Nihon Sekkei (NSI)
H. Eguchi	APL

NO.	TOPIC	ACTION
1.	**Phase 1A Construction Progress**	
	Seven hostels out of ten and the dining hall will be completed by July 2014 as well as the ground floor plus another four floors of the chemical engineering building. In august 2014 IITH will move to the new campus accordingly. The mechanical engineering building and the civil engineering building are scheduled to be completed by in March 2015.	
2.	**Conflicted Plot**	
	The plot number 369 and the other two small pieces of land on the edge of the campus are still not obtained and under negotiation with the owners. The heavy lab and the service station which were planned on the #369 plot has been relocated to the other plot of the campus. The service station was shifted in the plot below.	
3.	**Project Process after DD, before construction**	
	● Followings to be prepared by BAC (bidding assistance consultant) and approved by IITH and PMC. 1. CD (construction documents) as well as General specification and Particular specification 2. BOQ (bill of quantity) after the CD completes. 3. Good for Construction drawings (GFC) after the tender : GFC will be used for construction. 4. During the CD stage, cost estimating and value engineering if necessary are also performed. 5. After the CD documents are completed, all the CD documents of all the projects in each package will be merged into one in order to reduce the total construction budget, known as “the merging period”. ● Following to be created by a contractor and approved by IITH, the PMC and the BAC. 1. Shop drawings including Metal work, Door and window work, Pre-casted concrete Work, Electrical Panel work, etc.	

4.	**Responsibility during Construction**	
	● The roles of PMC are: 1. Regular inspection and on-site management: Day to day basis construction checking activities as well as construction drawing check, also keeping IITH informed of the project's progress 2. Execution monitoring : including measurement check and construction material and sample check such as tiles, concrete, and steel 3. Quality assurance including schedule monitoring ● The roles of Architect are: 1. Review and approval of shop drawings 2. Approval and observance on site to ensure if the project is being built according to the plans and specifications 3. Provision of missing information and GFC drawings	

MEETING MINUTES

DATE: Mar. 18. 2014 PLACE: ASTUTE OFFICE, Pune/INDIA

SUBJECT: IITH PHASE III DD PROJECT: IITH Campus Development Project

ATTENDEES	
Names	**Affiliation**
Anindya Joshi, Sonali Malvankar	ASTUTE
T.Endo(A), M.Oshima(A),	Nihon Sekkei (NSI)

NO.	TOPIC	ACTION
1.	**Missing information request**	
	● Senior architect Based on the TOR condition, NSI has requested AST the additional information of the senior licensed architect in India besides as well as the experienced project manager, Ms. Sonali. The senior architect shall be a full-time employee with over twenty years of experience in charge of both KNC and RCC projects as written in the TOR. AST suggested Mr. Deo with less years experience to be fully in charge of the KNC and RCC projects from the beginning to the end of the DD of phase 3. He was a former quantity surveyor for TIP and CONV and familiar with the background of the project. He will be AST agreed to replace him immediately with a well experienced licensed architect if NSI finds his lack of ability.	AST
	● Code consultant Based on the TOR, NSI has requested the third party building code consulting firm. AST to provide NSI the third party code consultant background information. AST agreed that this third party consultant to review the drawings and provide listed documents including the egress analysis and calculations, the fire code related requirements and any building code related suggestions and analysis. This exercise to be completed at the beginning of the DD stage and towards the end of the DD. The documents shall be a part of the interim report and the final report for JICA as well as a part of the DD drawing set.	AST
KICK OFF		
2.	**Code Review**	
	AST to review the projects regarding the building code and any related local building regulations in early April and in early September. The third party code consultant to list and document the requirements and suggestions with the referred regulation numbers in two week after receiving the drawings.	NSI/AST
3.	**STRUCTURE**	
	By the end of April, NSI shall provide the basic structure information. AST to review	NSI/AST

	the structure members and beam and column schedule. AST to provide the revised drawings in two weeks after receiving NSI's drawings as well as the beam and column schedule. The meetings to be scheduled three times, the end of May, the end of July and early September. The detailed schedule to be discussed.	
4.	**MEP**	
	NSI shall provide the concept sketch drawings for MEP in the end of May followed by the meetings in Pune. The complete drawings shall be submitted by the MEP consultants on August 31st. After NSI reviews the completed drawings, AST's revisions might be required considering the phase 1 and 2 experiences. The meetings to be scheduled three times, the end of May, the end of July and early September before the submission to IITH and JICA. The detailed schedule to be discussed.	NSI/AST
5.	**Energy Analysis**	
	Energy analysis needs to be performed by the end of June. NSI to notify AST the detailed schedule. The report is requested by IITH for their GRIHA requirements. The complete analysis and report to be attached to the final set of the DD drawings as well as JICA's interim report and the final report.	NSI/AST
6.	**Important date**	
	AST understood that the contract with JICA will terminate by the end of October. The submission of drawings to IITH and JICA India is scheduled around mid October. AST agreed that all the drawings to be completed by early October.	AST/NSI
7.	**Next**	
	The next meeting is scheduled around the end of May. The detailed schedule to be discussed.	NSI

NIHON SEKKEI INTERNATIONAL, INC.

MINUTES OF MEETING

DATE: June 2nd-4th. 2014 PLACE: JW CONSULTANTS

SUBJECT: IITH PHASE III DD PROJECT: IITH Campus Development Project

ATTENDEES	
Names	**Affiliation**
U. Joshi, S. Gramopadhye, M. Bansode, S. Malvankar Y.Tobe(PM), M.Oshima(A), K. Nishikawa(S), A.Nashimoto(S)	JW CONSULTANTS(JW) ASTUTE Nihon Sekkei Inc, Nihon Sekkei International - NSI

NO.	TOPIC	ACTION
GENERAL about structure		
1.	Structural condition	
	・ NSI stated that the structural condition is the same as the IITH phase I & II. JW accepted.	
2.	Geotechnical report	
	・ Geotechnical report of the project site by the NAGADI CONSULTANTS is confusing that NSI cannot read even the N value of each layer. ・ JW also cannot understand this report. JW will clarify it with IITH and report to NSI.	JW
3.	Others	
	・ Imposed load JW explained that the imposed load by NBC is the minimum requirement. It should be increased if necessary. For example, 2.5 kN/m2 of imposed load for office in educational buildings might not be enough. It is better to refer the imposed load for office category in the other function building. 3.0 ~ 4.0kN/m^2 is usually used for the imposed load for office. NSI accepted.	
Reseach Center Complex - RCC		
1.	RCC : Overall Structure Concept	
	・ NSI explained the overall architecture and structure concept of RCC. ・ JW suggested not to use the term “rigid” frame with “shear walls” in the design basis report. It shall be called just a moment frame as it is very flexible with a few shear walls. NSI accepted.	
2.	RCC : Mega lab (NANO-TECH Lab)	
	・ NSI explained the NANO-TECH lab: Steel grating floors are raised by the steel posts from the concrete slab to allow the tenants to run ducting free	

	for their own labs. This system is used in the nanotech labs of UOT (University of Tokyo). ・ JW suggested to use RC posts instead due to the necessity of the footings as well as fire safety separation. ・ NSI explained it is under the scope of tenants. IITH and tenants will install the lab after the building completion. NSI considers that the footings are unnecessary since the load on the grating floors is not very large. JW accepted the concept. ・ NSI explained the nanotech labs are double height space with the mechanical spaces above the ceiling and below the grating floor supported with 10 meter tall columns. .JW accepted.	
3.	RCC : Pre-stressed girders	
	・ NSI explained pre-stressed beams are used for 12 meter long spanned and heavy loaded girders. It is efficient to reduce cracks and keep the girder size to be 650MM wide by 900MM deep. ・ JW explained the width of pre-stressed beam shall be larger than 1,200 MM in India. It is common that the width of a pre-stressed beam becomes larger than the width of the column. The pre-stressing codes can be tied on the sides of a column. ・ JW suggested making these pre-stressed girders to the conventional RC girders with the same size. It is accepted to make 12 meter long beams with a conventional type in India. NSI accepted	
4.	RCC : Others	
	・ JW pointed out the dead loads of some rooms seemed to be incorrect. NSI to revise dead loads. ・ <u>NOTE:</u> The additional RC slab to be added in the pit of mega lab. NSI to send revised framing plans and architectural plan and sections to JW.	NSI NSI
Knowledge Center - KNC		
1.	KNC : Overall	
	・ NSI explained the overall architecture and structure concept of KNC. The building is very complicated. There are three major structural challenges. 1. Stepped open shelf area 2. RC arch walls 3. Roof.	
2.	KNC : STEPPED OPEN SHELF area	
	・ NSI explained the architectural and structural concept including inclined girders as to the STEPPED OPEN SHELF, placing secondary beams	

	horizontal, and slabs supported by the upward lump concretes. ・ JW suggested an alternative structural concept by using flat framing on the bottom level considering its execution method on site. ・ NSI and JW discussed the stepped floors area above taller arches where the flat framing concept does not work. (Grid 8 to 11 between Grid D and G) ・ JW agreed to proceed the original structural concept NSI suggested. ・ JW to execute the design development drawings of the STEPPED OPEN SHELF area.	JW
3.	KNC : RCC ARCH WALL	
	・ NSI explained the UoT's original design of 500mm-thick RCC ARCH WALL. NSI considered to evaluate its stiffness for the whole structural calculation based on the calculation method in Japan. ・ Since it doesn't work as structural arch, JW suggested suspending each RCC ARCH WALL from the beam above and just considering its weight as the additional load on the beam above. In case of a horizontal load added, cracks are allowed along the edges of the walls on both sides. ・ The "stitched re-bars" shall be necessary for reinforcement between walls and cross shaped columns. The walls do not restrain the frame movement and evaluating the stiffness of the walls is unnecessary. NSI accepted the concept. ・ JW to develop the RCC ARCH WALL part drawings for DD submission.	JW
4.	KNC : Roof	
	・ NSI explained the concept of roof shape. The UoT team considered Precast concrete method in order to maintain the smoothness and sharpness. However, after several studies, NSI had just found out additional concretes would be massive because the size of the PCa piece is not small enough to achieve the smoothly curved roof. ・ JW considered PCa is not suitable for this case. In India, in-situ concrete can be executed smooth and sharp, and much cheaper than PCa. Constructing with in-situ concrete shall reduce additional concretes. NSI accepted the concept. ・ NSI and JW discussed the reasonable depth and pitch of secondary beams for constructing it by in-situ and concluded as the following: The size shall be 250MM by 1700MM to 350MM by 1200MM at every 2400MM ・ NSI will discuss it with UOT. NSI to revise the size and pitch of secondary beams and confirm to JW by June 21st by e-mail.	NSI
5.	KNC : Long column	
	・ NSI and JW discussed the size of the columns. According to Indian Standard (IS), a compression member shall be considered as a slender	

	compression member when both the slenderness ratios L_{ex}/D and L_{ey}/b are not less than 12. Six of the main columns are long and shall be considered as slender compression members. ・ According to Indian Standard (IS), a RC slender compression member shall be designed by considering an additional moment. In the case of KNC, this moment will be 120 times of its original moments. The original size of the columns is too small. <u>NOTE:</u> NSI reviewed the calculations. Refer the email sent on June 16th 2014 by NSI. JW to reply. ・ In order to keep the original size, JW suggested steel tube columns with the same cross section shape. The steel tube column is filled with concrete. It is designed as if it is only steel tube column. The strength of concrete shall not be counted. The thickness of steel plate for the tube column shall be 20MM to 60MM. ・ NSI concerned its finish: The finishing of these columns shall be exposed concrete in order to achieve the seamless connections between the arches and the columns. →JW suggested to plaster on the surfaces of columns. The thickness of plastering shall be 30 MM. ・ NSI to discuss with UOT and confirm.	JW NSI
6.	KNC : Others	
	・ Pit NSI to finalize the pit design. NSI to submit the drawings of the pit framing plan to AST/JW by June 21st 2014. ・ Stair 1~5 NSI to update the stair 1 to 5. NSI to submit the drawings to AST/JW by June 21st 2014. ・ Stair 6 NSI to update the stair 6 design as a free standing stair . Stair 6 to be discussed during NSI's next visit.	NSI NSI NSI
Schedule and Scope		
	・ NSI and AST/JW agreed the schedule and scope. Refer the attachment	NSI/JW

RCC: Research Center Complex , KNC: Knowledge Center

■STRUCTURE DD Schedule for IITH Phase III

11th Jun. 2014

RCC

TOPIC	ACTION	DETAILS	Jun. 2014 (1st Month) 1	2	3	4	July. 2014 (2nd Month) 1	2	3	4	Aug. 2014 (3rd Month) 1	2	3	4	Sep. 2014 (4th Month) 1	2	3	4	Remarks
ARCHITECTURAL DRAWING	NS→JW	Plan, Section, Elevation	visit																
		Other details								visit						visit			
STRUCTURAL DRAWING	NS→JW	Concept drawing of Framing plan, Framing elevation, Column & Beam schedule	visit																
Main Structure :																			
OVERALL	JW	Drawing Framing plan, Framing elevation, Column & Beam schedule, etc														★ SUBMISSION			
PIT	NS	Designing pit floor plan			E-mail														
	JW	Drawing pit framing plan														★ SUBMISSION			
Details :																			
OTHERS	NS									visit									
	JW	Reviewing and adding information to the drawing														★ SUBMISSION			

KNC

TOPIC	ACTION	DETAILS	Jun. 2014 (1st Month) 1	2	3	4	July. 2014 (2nd Month) 1	2	3	4	Aug. 2014 (3rd Month) 1	2	3	4	Sep. 2014 (4th Month) 1	2	3	4	Remarks
ARCHITECTURAL DRAWING	NS→JW	Plan, Section, Elevation	visit																
		Other details								visit						visit			
STRUCTURAL DRAWING	NS→JW	Concept drawing of Framing plan, Framing elevation, Column & Beam schedule	visit																
Main Structure :																			
STEPPED OPEN SHELF area	JW	Drawing Framing plan, Framing elevation, Column & Beam schedule, etc														★ SUBMISSION			
RCC ARCH WALL area	JW	Drawing Framing plan, Framing elevation, Column & Beam schedule, etc														★ SUBMISSION			
ROOF	NS	Confirming design of roof (PCa or insite, pitch and size of the ribs)			E-mail														
	JW	Drawing Framing plan, Framing elevation, Column & Beam schedule, etc														★ SUBMISSION			
LONG COLUMNS	NS	Discussing and deciding the concept of these long columns with UOT			E-mail														
	JW	Adding information to the drawing														★ SUBMISSION			
PIT	NS	Designing pit floor plan			E-mail														
	JW	Drawing pit framing plan														★ SUBMISSION			
Details :																			
STAIR 1～STAIR 5	NS	Modifying			E-mail														
	JW	Adding information to the drawing														★ SUBMISSION			
STAIR 6	NS	Designing STAIR 6 (Trussed stair)								visit									
	JW	Reviewing and adding information to the drawing														★ SUBMISSION			
OTHERS	NS									visit									
	JW	Reviewing and adding information to the drawing														★ SUBMISSION			

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NIHON SEKKEI INTERNATIONAL, INC.

MEETING MINUTES OF ELECTRICAL SYSTEM

DATE: 5th Jun. 2014 PLACE: ASTUTE

SUBJECT: IITH PHASE III DD PROJECT: IITH Campus Development Project

ATTENDEES	
Names	**Affiliation**
Sonali mal *van*kar, and 2 staffs	Astute – AST
Vinayak A. Vaidya, Ashitosh Monap	Abhiyanta(ELE)-ABH
	APL
M. Ohshima, Y. Ohtani	Nihon Sekkei - NSI

NO.	TOPIC	ACTION
1.	COMMONS	
	● NSI and AST confirmed "MEP DD Schedule for PHASE II DD". →AST to refer *to the table 1 in Attachment.* ● NSI and AST confirmed "Architectural drawings for RCC and KNC"	AST
2.	INFRASTRUCTURE	
	● NSI and AST confirmed "Infrastructure plan by ARCOP for RCC and KNC". ● As for RCC, the tapoff for electrical L.T line is located at the southwest corner of the site according to the latest ARCOP plan. And, the tapoff for ELV line is located at the northeast corner of the site. ● As for KNC, the tapoff for electrical L.T line is located at the northeast corner of the site of the site. And, ELV line is located at the southeast corner of the site.	
3.	ELECTRICAL POWER DEMAND	
	NSI and AST discussed about "Calculation Sheet of electrical power demand". →*Same as Phase II* ● NSI and AST discussed about "PPD of Distribution Panel for LAB" →NSI assumed the capacity of LAB DB by PPD. The PPD of DRY and WET LAB is 150VA/m2. 150VA/m2 is the same as TIP LAB. ● And, the PPD of MEGA LAB is 300VA/m2. ● NSI will study the capacity of chillers by tenant. →NSI assumed it is by 150W/m2 it is because the heat load is assumed as 300W/m2 and COP of chillers is 2.0. PPD: Power Socket Power Density COP=Heat Load／Electrical Load	
4.	DRAWING LIST	
	● NSI and AST confirmed "Drawing List of Electrical Work". →*Same as Phase II*	

5.	POWER SUPPLY SYSTEM	
	● NSI and AST discussed about "the concept of power supply system" as *the figure 1 in Attachment*. *→Same as Phase II* ● RCC is similar to TIP. And, KNC is similar to CONV. 1. Between Substation and MDB in EMR ● Electrical L.T line between Substation and MDB shall be two following lines each for both RCC and KNC. - Normal line - Emergency line connected to generators on campus ● "Piller Box" shall be located at the site boundary on electrical L.T line. ● The cabling goes underground and goes into the pit. Then, it goes up from the bottom of EPS to MDB in EMR. 2. Between Normal MDB and Emergency MDB ● Normal MDB and emergency MDB are connected by ATS. 3. Between MDB and Local distribution boards ● EPS shall be planed in each area in the buildings. And, local DB shall be located in EPS and MR. ● As to RCC, each LAB has distribution board one by one. And, LAB DB is connected with local DB through the meter. 4. The discrimination between normal and emergency loads ● The following loads are discriminated to emergency loads. -Emergency lighting -Server rack -CCTV equipments -Amplifier -Fire alarm panel -PBX -Lift -Plumbing system -Fire fighting system 5. The loads of UPS ● 2 kinds of UPS shall be planed. One is for emergency lighting. And, the other is for ELV equipments. ● AST to review the layout of EMR. EMR; Electrical Machine Room MDB; Main Distribution Board Local DB; Local Distribution Board EPS; Electrical Pipe Shaft	AST
6.	DISTRIBUTION AND CABLE TRAY SYSTEM	
	● NSI indicated local distribution board layout and DB supply boundary by "NS drawings".	

	● The meter for LAB DB shall be located in EPS.	
7.	DISTRIBUTION PANEL AND POWER CONTROL PANEL DIAGRAM	
	● Power control panel means distribution panel for the 3 phase electrical roads; pump, air handling unit etc. by HVAC or Plumping system. ● NSI and AST discussed about the scope of Work between electrical and mechanical works. Distribution panel is by electrical work. While, control panel is by mechanical work. ● Panel diagram shall be as ABH style. *→Same as Phase II*	
8.	Lighting System	
	● NSI indicated the lighting fixture layout, illuminance level and switching way for each room and lighting fixture layout by "NS drawings". ● AST advised that the illuminance level for LAB room is 300lx and for pantry is 200lx generally in India. NSI agreed. ● In DRY and WET LAB, the ceiling is exposed concrete and the height is 3.8m. So, lighting fixture shall be planed as suspended type at FL+3.0m.	
9.	POWER SOCKET SYSTEM	
	● NSI indicated power socket layout by "NS drawings". ● RCC has 3 kind s of LAB as below; - DRY LAB and MEGA LAB Office - WET LAB - MEGA LAB	
10.	TELEPHONE SYSTEM	
	● NSI and AST discussed about "the concept of communication system" as *the figure 2 in Attachment.* ● NSI and AST plan unified communication system with telephone, LAN by optical cable. ● Television system is separated from this system. ● MDF and server lack are located in ELV room. ● The cabling route from MDF in ELV room to local patch panels is the same as power cabling. *→Same as Phase II* ● NSI indicated multimedia outlet layout by "NS drawings". ELV: Extra Low Voltage	
11.	LAN SYSTEM	
	● LAN system shall be unified with telephone. ● NSI indicated multimedia outlet layout by "NS drawings".	

12.	TELEVISION SYSTEM	
	● NSI indicated television outlet layout by “NS drawings”.	
13.	CCTV SYSTEM	
	● NSI indicated CCTV Camera layout by “NS drawings”. ● The main rack including recorder, monitor is located in fire control room. ● CCTV cameras shall be IP type. ● The capacity of recorder shall be able to store the video for 1 month. *→Same as Phase II*	
14.	PUBLIC ADDRESS SYSTEM	
	● NSI and AST confirmed the local legal installation standards. ● The main rack including amplifier is located in fire control room. *→Same as Phase II*	
15.	AUTOMATIC FIRE ALARM SYSTEM	
	● NSI and AST confirmed the local legal installation standards. ● The fire alarm panel is located in fire control room. ● Fire alarm panel shall be analog address type. ● Detectors shall be mainly smoke type. Heat detectors shall be equipped with pantry, kitchen. ● Beam detectors hall be equipped with the room of over 5m height. In RCC, MEGA LAB shall be applicable. ● In open air room, detectors are not necessary. In RCC, mechanical shaft shall be applicable. ● In the room with false ceiling, if the height of the space is over 800mm, detectors are necessary at both above and below the ceiling. *→Same as Phase II* ● *A*ST to review the layout of fire control room.	AST
16.	LIGHTNING PROTECTION SYSTEM	
	● NSI and AST confirmed the local legal installation standards. ● NSI expects that lightning protection system shall be mainly tape type. AST will study. ● Grounding electrode is composed of the loop conductor around the building. ● The conductor from the top of roof to grounding electrode is displaced by the metal as the building structure. *→Same as Phase II*	AST
17.	EARTHING System	
	● Grounding electrode shall be separated from the one for lightning protection system. *→Same as Phase II*	

18.	I. B. M.S. – Intelligent Building Management System	
	● NSI and AST discussed about I. B. M. S. combines the below systems. - HVAC system - Plumbing system - Fire fighting system including fire alarm and sprinkler system - Electrical system - CCTV system ● The management items of electrical system are as below; - Lighting control - DB alarm and measurement data - Power meter *→Same as Phase II*	
19.	RCC Scope of Work for Electrical System	
	● NSI and AST confirmed the scope of work about the below system for RCC LAB. -Lighting and Power Socket -Telephone -LAN -Television -Fire Alarm/Public Address	

RCC: Research Center Complex

KNC: Knowledge Center Complex

Table 1 : MEP DD Schedule for IITH Phase III

■MEP DD Schedule for IITH Phase III — 5th Jun. 2014

ACTOR	ACTION		Jun. 2014					July. 2014				Aug. 2014				Sep. 2014				Remarks
			0	1st Month				2nd Month				3rd Month				4th Month				
				1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	
NS →AS	NS Architectural Plan																			
	NS MEP Basic Design																			
AS	ASTUTE Drawing																			
AS	ASTUTE Making of Drawing List																			
AS →NS	ASTUTE Submit of Drawings	FLOOR PLAN																		
		DIAGRAM																		
		DETAILS																		Machine RM., Toilets
NS	NS Confirmation of Drawings																			
AS	ASTUTE Modificaiton of Drawings																			
AS→NS	ASTUTE Submit of Final Drawings																			
NS	NS Preparation of Submit to IITH																			
NS →IITH	NS Submit to IITH of Drawings																			
NS →AS	NS business Trip to India																			

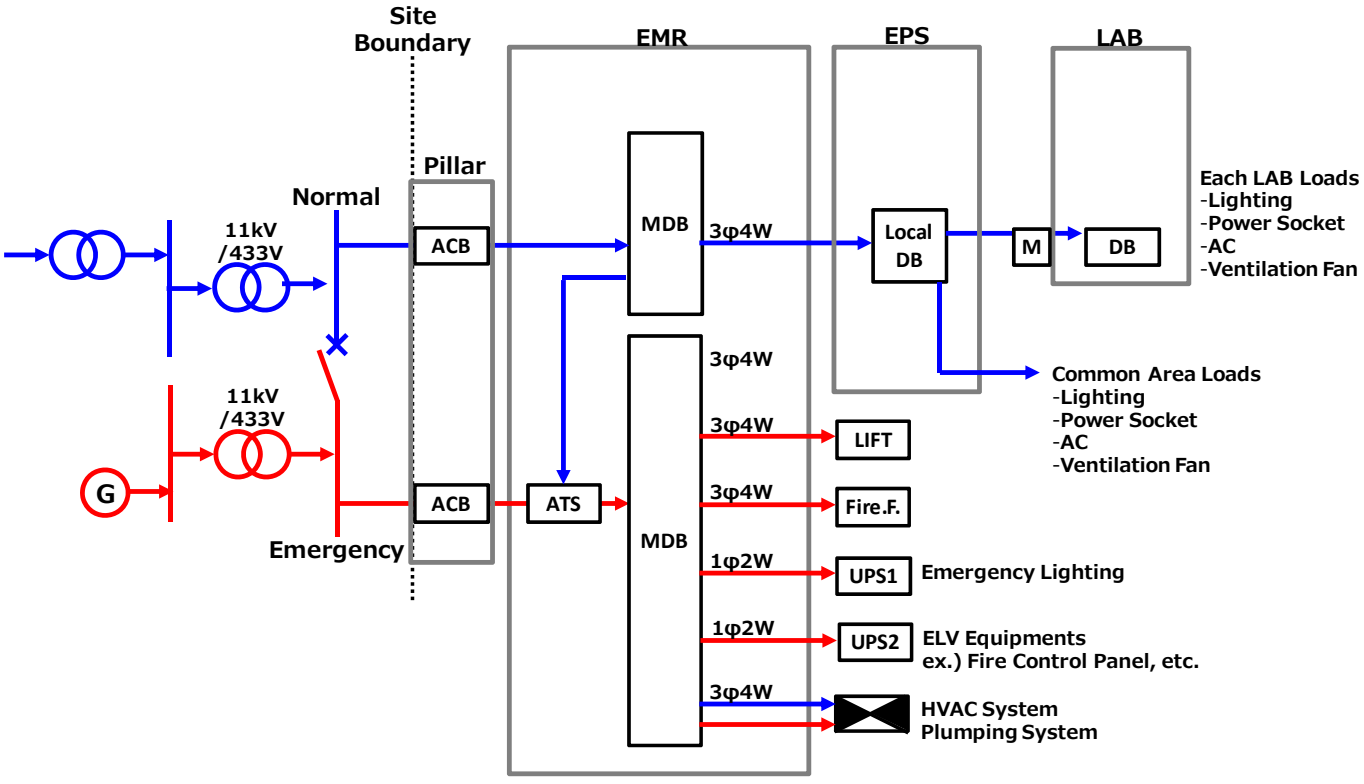

Fig.1 : The Concept of Power Supply System

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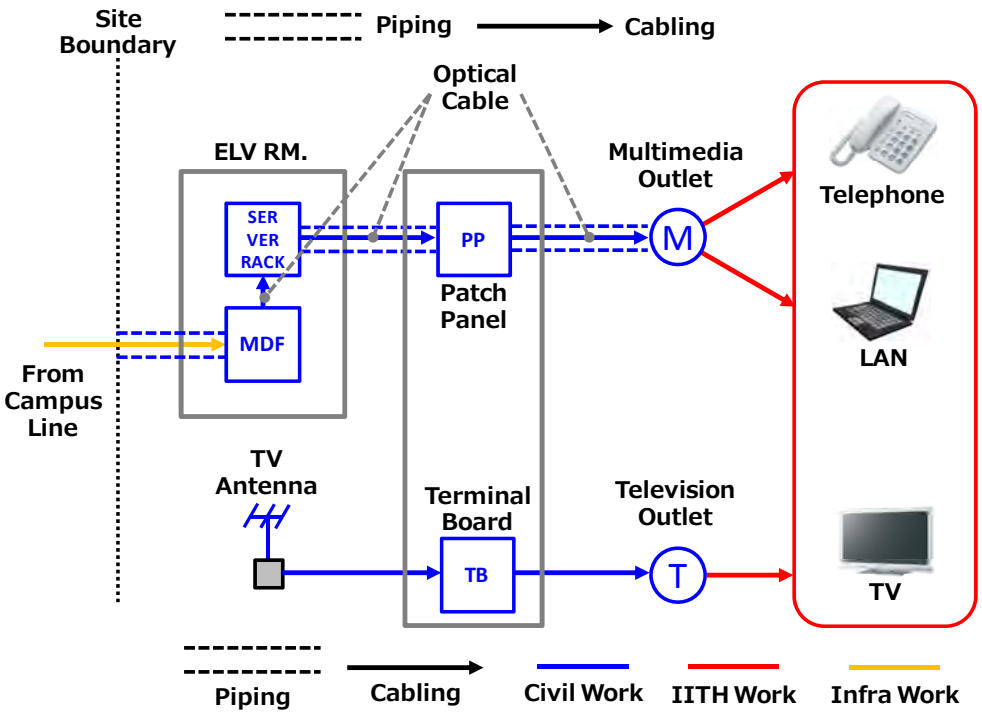

Fig.2 : The Concept of Communication System

ELECTRICAL CONSULATANTS & ENGINEERS
SHREE SWAMI KRUPA, PLOT NO. 6, NEELKAMAL HOUSING SOCIETY,
2ND FLOOR, KARVENAGAR, PUNE - 411 052
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MINUTES OF MEETING / VISIT REPORT

PEX / 402 / Rev - 0

CLIENT : ASTUTE ENGG SERVICES	PRESENT	
	ARCHITECTS :	NIHON SEKKEI INTERNATION INC. JAPAN ASTUTE ENGINEERING SERVICES
PROJECT: IIT-H RCC & KNC PHASE-3	CONSULTANTS :	NIHON SEKKEI INTERNATION INC. JAPAN ABHIYANTA ELECTRICAL CONSULTANTS & ENGG.
DATE : 29.07.2014 30.07.2014		

Following points were discussed during Design Review Meeting:-
RCC
1) DG Power requirement is for common load only & not for total load. Load list to be revised accordingly.
2) PHE panel shall be added in main SLD as per load list by PHE consultants.
3) Mega Lab load to be revised considering chiller load(300VA) & feeder provision shall be made from typical mega lab DB.
Cable laying & further scope of work will be by Tenant.
4) Some Revision in external lighting is suggested by NSI.
5) Equipment layout to be shown in electrical room such as UPS, Batteries etc.
6) for Dry Labs- No. of socket (20a Ind.) to be revised to 4nos, as per Wet Labs considerations.
7) Motion sensors along with manual switching arrangements shall be considered for Toilets, WC's etc.
8) Separate Cable tray to be considered for Chiller cabling from Mega Lab to Chiller area, cabling scope by tenant.
Cable tray shall be added in Pit Floor Plan.
9) Corridors shall have plane ceiling & not grid ceiling.
10) Legend shall be separated for Normal Lighting, UPS Lighting & Emergency Lighting.
11) Lighting fixture at Porch & peripheral lighting is with normal T5 simple fixture & no decorative fixture.
12) Lighting fixture orientation to be cross checked for mega lab office, also check HVAC indoor units locations.
13) Revised earthing scheme to be shared with NSI.
14) Addition of Up/Down & bracket lights as marked on layouts.
15) Load managers shall be shown at MLTP only & Multi-Function meters to be shown at other panels.
16) Layouts shall be revised & resend oncorporating the comments & suggestions by NSI.
KNC
1) Locations of HVAC panel to be shown in mechanical room.
2) PHE panel to be shown in Pump room.
3) Main SLD is OK.
4) Equipment layout shall be shown in electrical room area at ground floor.
5) NSI asked to avoid the tray routes through HVAC space for e.g. Archives.
6) Naming shall be done for DB's in each EPS.
7) The cable route shown from EPS-1 to EPS-3 at 1st Floor, is OK.
8) At 3rd Floor, 5A socket requirement for HVAC need to be checked & removed if not required.
9) External earthing pits shall be relocated inside the boundry wall of site.
10) External Pole light fixtures shall be arranged with proper distances & addition of fixture shall be considered & expanison areas.
11) Director room, counseling & meeting room shall have grid ceiling, fixtures shall be arranged acordingly. Astute to resend the layouts with false ceiling.
12) Corridors shall be with plane ceiling & Audio-Visual room with grid ceiling, Astute to resend the layouts incorporating the same.
13) Lighting fixtures in Audio-Visual room shall be considered with 4rows x 4col. As lux required is 400lx. Dialux considering above combination shall be shared to NSI.
14) In mechanical room, wall mounted light fixtures to be shown & avoid ceiling mounted lights wherever not possible.
FIRST FLOOR
15) Grid-5-10:N-R, will have grid ceiling- Lighting fixtures shal be realighned with respect to grid.
16) NSI will share the details of lighting fixtures / catalogue references to us for RCC & KNC.
17) 5A Socket point shall be shown for Desk Light for tables at grid no.- Q to J.
SECOND FLOOR

18) 5A Socket point shall be shown for Desk Light for tables. For two tables consider one Desk Light Fixture as discussed.
19) Lighting Fixture in Corridors at Library areas shall be bi-directional & having one sided reflector.
20) Dialux for vertical plane shall be checked for book shelf areas & to be share with NSI.
21) Area at grid no-A-D:11-13, keep 600x600mm lighting fixture as shown earlier.
22) NSI will reconfirm the mounting height for Foot Lights at Grid-D-G:3-4. The same fixtures are used for staircase.
THIRD FLOOR
23) Desk lighting shall be added at additional reading spaces.
24) At desk areas, lighting fixture shall be placed side-by-side as marked on layouts.
25) Square light shall be added in Reading room -1, grid-11-13:A-B.
LIGHTNING PROTECTION LAYOUT
26) Kindly show only Arch. Layouts & no structural Layouts.
27) Add lightning conductor grid at the top of water tank & staircase.
LOAD LIST
28) Consider additional watt per sqft. i.e. 10w/sqft load for printing areas. Assume loads like Photo Copy machine, Scanners.
29) Add smoke exhaust load provision in load list.(approx-20kw).
COMMON POINTS
30) For dropping of LA strip, it is suggested to run strip through RCC columns, Astute to take a note of this & take concent of
RCC consultant.
31) Astute to share the revised layouts with Grid Ceiling, Plane Ceiling etc wherever required.
32) Incoming tap-off points shall be shown in External Site Plan for Electrical & ELV System for RCC & KNC.
ELV SYSTEM
KNC – PA System
1) Column Mounted Box type Speaker need to be considered for Bridge area on Third floor instead of ceiling mounted speaker.
2) Schematic diagram need to be revised accordingly.
KNC – FAS System
3) Beam Detectors need to be considered for Bridge area on Third floor instead of normal smoke detectors.
4) Schematic diagram need to be revised accordingly.
RCC – PA System
5) Consider separate zone for common area & separate zone for Lab areas for Ground Floor and make changes in schematic
diagram accordingly.
RCC – FAS System
6) Make correction in schematic diagram of FAS system (i.e. loop number correction)

NIHON SEKKEI INTERNATIONAL, INC.

MINUTES OF MEETING

DATE: August 4th – 5th , 2014 PLACE: JW CONSULTANTS

SUBJECT: IITH PHASE III DD PROJECT: IITH Campus Development Project

ATTENDEES	
Names	**Affiliation**
U. Joshi, M. Bansode, S. Malvankar Y. Tobe(PM), M. Oshima(A), K. Nishikawa(S), Y. Imatomi(S)	JW CONSULTANTS (JW) ASTUTE(AST) Nihon Sekkei Inc, Nihon Sekkei International (NSI)

NO.	TOPIC	ACTION
Knowledge Center - KNC		
1.	KNC : Free-standing Stairs	
	・ NSI explained the result of calculation analysis about free-standing stairs (Stair 6). The analysis is done by Finite Element Analysis. →JW insisted NSI to show a diagram indicating principle shear strain of stair slabs.	NSI
2.	KNC : Glass Façade	
	・ NSI explained about the sash system for glass façade of arch openings. According to UoT's design proposal, glass façade is to be composed of horizontal mullions, which is spanning 10 meter long maximum. ・ NSI proposed the mullions to be steel I-girder. JW stated that steel I-girder mullion is feasible enough in India.	
Structural Drawing		
1.	KNC	
	・ NSI mentioned that the structural drawings of KNC submitted by JW on July 31st do not include all the floor framing plans and elevation framing plans. →AST/JW shall submit revised final DD structural drawing by Sep. 23rd.	AST/JW
DD Report and Schedule		
	・ JW to carry out rough calculation of typical members and create whole structural analysis model, and submit DD report including following items. 1. Diagram of 3D analysis model 2. List of load combinations 3. Diagram showing the load is applied for each floor (DL and LL) 4. List of additional load especially for KNC inclined beam and upward lumped concrete 5. Diagram showing forces of frames for each basic load cases 6. Diagram showing ground reaction	AST/JW

	7. Calculation of some typical columns (at least for slenderness column and typical columns) 8. Calculation of some typical main beams (at least for longest , shortest and typical span) 9. Beam and column schedule	
	→AST/JW agreed. NSI to send Load Sheet, for indicating loads for floor framing, before starting structural calculation.	NSI
	NOTE: NSI sent	
	・ NSI, AST and JW discussed DD report submission schedule to be following:	AST/JW
	1. Load Sheet to be submitted from NSI to AST/JW by Aug. 8th	
	NOTE: NSI sent the Load sheet.	
	2. DBR shall be submitted from AST/JW to NSI by Aug. 15th. NSI shall review DBR by Aug. 22th	
	NOTE: NSI received and approved RCC and KNC DBR.	
	4. Draft of DD report shall be submitted from AST/JW to NSI by Sep. 2nd for RCC, and Sep. 9th for KNC	
	5. Final DD report for RCC and KNC shall be submitted from AST/JW to NSI by Sep. 15th	
	・ Structure Framing Plans for DD set to be submitted by Sept 23rd 2014	AST/JW

RCC: Research Center Complex

KNC: Knowledge Center

NIHON SEKKEI INTERNATIONAL, INC.

MEETING MINUTES

DATE: Sept. 08. 2014 PLACE: IITH NEW CAMPUS SITE OFFICE

SUBJECT: IITH PHASE III DD PROJECT: IITH Campus Development Project

ATTENDEES	
Names	**Affiliation**
Prof. Subramaniam, Mr.Babu Y. Tobe(PM), M.Oshima(A), K.Nishikawa(S), S.Hario(MEP), R.Nishimoto(A)	IITH Nihon Sekkei (NSI)

NO.	TOPIC	ACTION
1.	**Master Plan and Infrastructure**	
	● For RCC and KNC, it is schedule to start the construction in Jan, 2016, and end in 2018. ● IITH requested NSI to double check with ARCOP regarding the electrical demand and locations of substations. NOTE: NSI confirmed with ARCOP. **The electrical demand by ARCOP estimated significantly lower than the required demand which shows in NSI's DD drawings. It is necessary to coordinate it with ARCOP.** The location of substations is correct. ● The emergency generators are located in the main substation (SV1). They shall be connected with the main cable (Single Line) to each electrical room from the substations. NSI to revise the electrical concept diagram. NOTE: According to ARCOP, each building shall be connected with two electrical LT cables from the substations. One is for the normal line and the other is for the emergency line. ● Each building shall have UPS by itself according to the requirements.	NSI NSI
2.	**RCC**	
	i. Architecture ● The raise floor system shall be applied at this point as IITH has not determined the lab layouts yet. NSI also suggested that it is the best method not only for installation and maintenance purposes but also considering future renovations. The trench system or the slung system using the space above ceiling of the floor below can be considered during the tender stage if IITH decides the layout and prefers to lower the initial building cost. This item to be noted on the DD drawing. ● IITH and NSI discussed the types of stones. Granite stones tend to have darker colors. IITH suggested using the larger size stone in vertical direction up to 6 feet with the dry type system instead of 300mm x 300mm stone	IITH

	panel on the wall of RCC in order to reduce the cost of steel back supports. The stone types and their details to be reviewed with UoT.	UoT
	ii. Structure	
	● Additional soil survey locations were discussed. NSI to send the locations for each building to IITH NOTE: NSI shared informarion with IITH.	NSI
	● Structure systems as well as use of PT beams were discussed. NSI to discuss with JW. IITH suggested using PT beams where the column span is more than 7 to 8 meter long.	NSI/JW
	iii. HVAC, Plumbing and Electrical	
	● The gravity method is applied for the water supply system. NSI to double check the water pressure and necessity of pressure reducing valve for lower level. NOTE: According to water pressure calculation, the pressure reducing valve is not required for RCC water supply.	NSI
	● If UPS room shall be provided, the ventilation to be required for UPS room. NSI to check the location of UPS room. NOTE: There is not a UPS room in both buildings.	NSI
	● In the case of black out, the UPS system shall be used for emergency lighting and ELV equipments. DG (Diesel Generator) system shall back up all of UPS covered area, the elevators including fire lift and plumbing equipments.	
	● The use of LED fixture to be considered instead of fluorescent light as the market is catching up. Fluorescent lighting fixture can be used for not frequently used rooms such as mechanical room and storage. NOTE: NSI added the remark in the drawing “Equivalent LED fixture shall be used against T5 fluorescent lighting fixture”.	
	● CAT6E shall be applied for LAN. NSI to check CCTV. NOTE: CAT6E shall be applied for CCTV as well.	NSI
	● IITH requested the provision of the special earthing system. Considering the soil type of the site, the same type of earthing system as three academic buildings currently under construction to be applied for both RCC and KNC. NSI to discuss with AST and ARCOP and revise it. NOTE: NSI revised the drawing.	NSI
	iv. Scope of work	
	● Wet Lab 1. Floor finish: The only two model rooms to have the floor finish. 2. Ceiling finish: The ceiling shall be installed for all the wetlabs.	

	● Dry Lab 1. Floor Finish: Floor finishing shall be installed for all Dry Labs. 2. Ceiling finish: The ceiling shall be installed for all the Dry labs. ● Mega Lab No ceiling, No floor finish no partition/wall to be installed.	
3.	**KNC**	
	i. Architecture ● NSI to review the stone types with UoT. ii. Structure ● Additional soil survey locations were discussed. NSI to send the locations for each building to IITH NOTE: NSI shared informarion with IITH. iii. HVAC, Plumbing, and Electrical ● Mainly the under floor air distribution system shall be applied for the stepped open shelf hall along with wall/ceiling mounted air conditioning system. ● Fire fighting system for archive room was discussed. Considering the pros and cons for three systems, FM200, Water mist, and Double interlock pre action, IITH chose the water mist system. NSI to update the system. NOTE: NSI revised the drawing on Sept 12, 2014. ● The internal electrical load will be higher than conventional libraries. NSI to make sure consider the future electrical load.	UoT NSI NSI NSI
4.	**Other**	
	● Budget IITH to send the total budget detail information of RCC and KNC for NSI's cost estimation review. ● Sustainability Report Sustainability analysis shall include such as material analysis, heat simulation, sun analysis, and lighting condition based on the GRIHA's criteria. NSI to submit the report. ● The DD submission date It shall be on Oct 8th, 2014 Wednesday at 14:00. JICA India (Mr. Sanjeev, Mr.Yasumoto) will join it. NSI to check with JICA who to attend.	IITH NSI IITH/NSI/JICA

NIHON SEKKEI INTERNATIONAL INC.

MEETING MINUTES

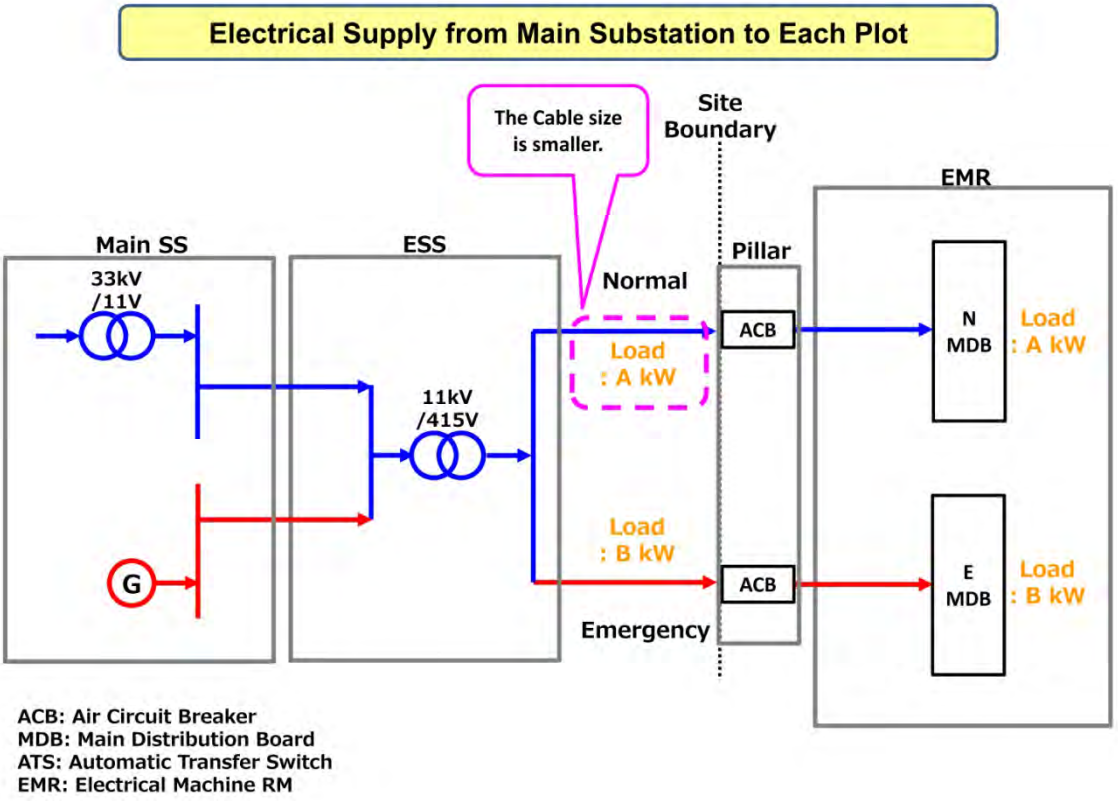
DATE: Oct. 08. 2014 PLACE: IITH NEW CAMPUS SITE OFFICE

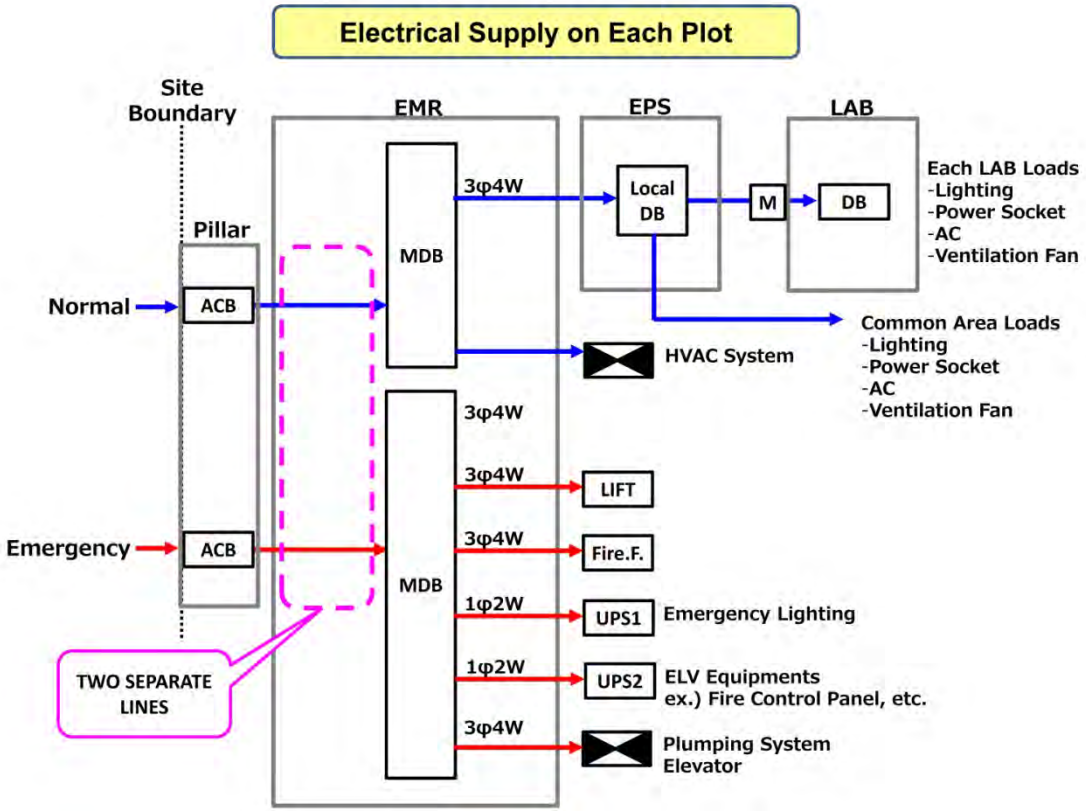
SUBJECT: IITH PHASE III DD PROJECT: IITH Campus Development Project

ATTENDEES	
Names	**Affiliation**
Mr. Sanjeev Moholkar	JICA India
Prof. Subramaniam, Mr.Babu	IITH
Y. Tobe(PM), T.Endo(A), M.Oshima(A), H.Nakashima(Cost), K.Htoo(A)	Nihon Sekkei (NSI)

NO.	TOPIC	ACTION
1.	**Phase 3, KNC and RCC 100% DD Drawings Submission**	
	NSI submitted hard and soft copies of KNC and RCC 100% Design Development drawing set as well as GRIHA report to IITH.	
2.	**MEP**	
	NSI reported MEP related information to IITH and the topics are as followed; ● Electrical Capacity 1) The electrical demand by ARCOP estimated significantly lower than the required demands of each facility. It needs to be noted and coordinated with ARCOP during tender stage. NSI to submit the finalized electrical load information to IITH. 2) The electrical capacity of the FF System seems to be quite high. NSI to review the capacity. ● Emergency Backup System NSI confirmed with ARCOP regarding the emergency backup system concept. There will be two lines. ● KNC future Electrical Demand At this point IITH has not figured out its demand. IITH shall coordinate the expected future electrical demands during tendering stage.	NSI NSI IITH
3.	**Soil Survey**	
	NSI reminded to take action on the requested additional soil surveys before the CD stage starts. IITH has preceded the process of the additional soil survey with ARCOP.	
4.	**Cost Estimation**	
	NSI submitted the cost estimation report of KNC and RCC to IITH.	
5.	**Project Schedule**	
	The construction is scheduled in Jan, 2016 for 30 months.	

Emergency Backup System Concept Diagram





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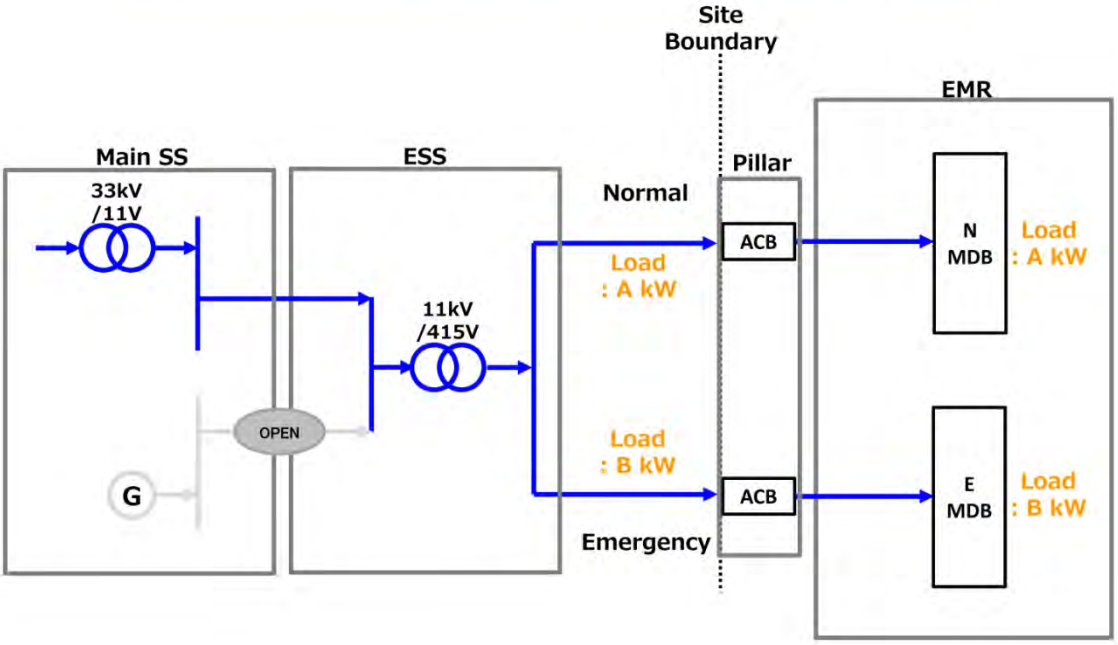
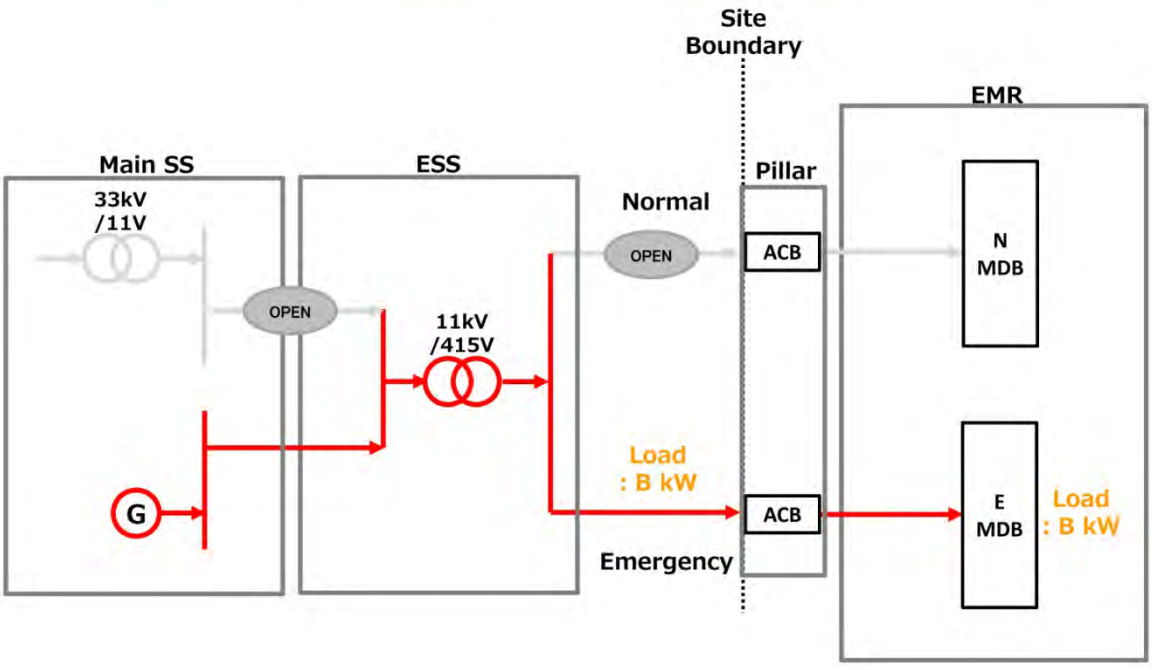
Electrical Cable from Main Substation – Normal Time



Electrical Cable from Main Substation - in case of Blackout



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APPENDIX C

GRIHA CHECK LIST

GRIHA self-evaluation tool					
Note: Applicability checks have been provided for various criterions in the table, to check for conditions on site which may make those criterion non-applicable. If in the Applicability checks, the conditions specified are false for the given project, kindly input 'no' in place of the default 'yes'.					
Criterion	Appraisal	Maximum Points	Points being attempted *	Remarks -RCC	Remarks -KNC
			*Points will be evaluated by GRIHA consultant appointed by IITH		
Criterion 1	**Site Selection**				
	The site plan must be in conformity with the development plan/master plan/UDPFI guidelines (mandatory). This should comply with the provisions of eco-sensitive zone regulations, coastal zone regulations, heritage areas (identified in the master plan or issued separately as specific guidelines), water body zones (in such zones, no construction is permitted in the water-spread and buffer belt of 30 meter minimum around the FTL), various hazard prone area regulations, and others if the site falls under any such area (mandatory with no point allocation).	0		clients scope	clients scope
	The site should be located within ½ km radius of an existing bus stop, commuter rail, light rail or metro station and/or the proposed site must be a Brownfield site (to rehabilitate damaged sites where development is hindered by environmental contamination, thereby reducing pressure on undeveloped land)	1		clients scope	clients scope
		1			
Criterion 2	**Preserve and protect landscape during construction/compensatory depository forestation.**				
	Applicability Check 1 There are existing several mature trees on site that can be preserved	yes			
	Construction has been planned in a way that excavation/basement work, up to plinth level is not coinciding with rainy season and the site disruption is restricted to pre-designated areas	1		general contractors scope in- applicable in construction stage	general contractors scope in- applicable in construction stage

	Proper staging, spill prevention plan , sedimentation and erosion control systems in place.	1		general contractors scope in- applicable in construction stage	general contractors scope in- applicable in construction stage
	Trees are preserved and protected properly Note: Applicable if answer is yes in Applicability Check 1 above	1			
	Compensatory forestation is applied on site Note: Applicable if answer is yes in Applicability Check 1 above	1		masterplanners scope	masterplanners scope
		4			
Criterion 3	**Soil conservation (post construction)**				
	Applicability Check 2 Top soil quality meets the quality standard of top preservation criteria as per criteria 3	yes			
	Top soil is fertile and properly laid for vegetative growth Note: Applicable if answer is yes in Applicability Check 2 above	1		general contractors scope in- applicable in construction stage	general contractors scope in- applicable in construction stage
	Measures taken for proper stabilization so soil Note: Applicable if answer is yes in Applicability Check 2 above	1		general contractors scope in- applicable in construction stage	general contractors scope in- applicable in construction stage
		2			

Criterion 4	**Design to include existing site features**				
	Building and site planning to minimize the disruption of natural ecosystems and to maximize benefits from prevailing micro-climate	4		can attempt for these points as the micro climate is not disterbed	can attempt for these points as the micro climate is not disterbed
		4			
Criterion 5	**Reduce hard paving on site**				
	Net Paved area on site under parking, roads etc. to exceed 25% of the site area (minus the building footprint) or the net imperviousness factor of the site should not exceed the net imperviousness factors prescribed in the NBC 2005, whichever is more stringent.	1		achieved	achieved
	Total surface parking not to exceed as permitted by the local building by-laws	0			
	More than 50% of the total paved area to have pervious paving or open grid pavements or grass pavers or shading through the use of vegetated pergolas or covered with coating of SRI>0.5 OR More than 50% of the total paved area to have a combination of the above.	1		more than 50% pervious cover planned	more than 50% pervious cover planned
		2			
Criterion 6	**Enhance outdoor lighting system efficiency**				
	Luminous efficacy of 100% of lamps used in outdoor lighting to meet the corresponding lamp luminous efficacy as mentioned in Table 6.1, as per GRIHA	1		planned as per GRIHA guideline	planned as per GRIHA guideline
	Automatic controls to be installed for 100% of outdoor lights	0			
		1			

Criterion 7	**Plan utilities efficiently and optimize on-site circulation efficiency**				
	Various transportation and service corridors shall be minimized and consolidated and the pedestrian walkways to be shaded.	1		single building	single buildng
	Aggregate utility corridors shall be used	1			
	Utility corridors shall be consolidated along the previously disturbed areas or along new roads in order to minimize unnecessary cutting and trenching and ensure easy maintenance	1		masterplanners scope	masterplanners scope
		3			
Criterion 8	**Provide minimum level of sanitation/safety facilities for construction**				
	Ensure compliance with the NBC (2005) safety norms for providing the necessary safety equipment and measures for construction workers	1		general contractors scope in- applicable in construction stage	general contractors scope in- applicable in construction stage
	Provisions for drinking water, healthy and clean living conditions and sanitation facilities shall be provided for the workers	1		general contractors scope in- applicable in construction stage	general contractors scope in- applicable in construction stage
		2			
Criterion 9	**Reduce air pollution during construction**				
	Necessary measures to be taken on site to reduce air pollution for example providing site barricading to a height of 3 m on the site perimeter, carry out wheel washing of vehicles entering/exiting the site, sprinkle water on roads with loose dust etc.	2		general contractors scope in- applicable in construction stage	general contractors scope in- applicable in construction stage
		2			

Criterion 10	**Reduce landscape water demand**				
	If landscape water demand is reduced by up to 30%	1		landscape designers scope	landscape designers scope
	If landscape water demand is reduced by up to 40%	2		landscape designers scope	landscape designers scope
	If landscape water demand is reduced by up to 50%	3		landscape designers scope	landscape designers scope
		3		landscape designers scope	landscape designers scope
Criterion 11	**Reduce building water use**				
	Non Applicability condition: All faucets, which are installed in spaces with water head heights less than 15 feet (4.6 m), in a gravity fed systems, can be exempt for calculations in Criterion 11.				
	If building water demand is reduced by up to 25%	1		attempted for 25% reduction. Domestic & flushing duel plumbing sys for water supply. Low flow fixtures, Low flow fixtures used	attempted for 25% reduction. Domestic & flushing duel plumbing sys for water supply. Low flow fixtures, Low flow fixtures used
	If building water demand is reduced by up to 50%	1		not achieved	not achieved
		2			

Criterion 12	**Efficient water use during construction**				
	Efforts to be taken to reduce the use of potable water during construction for example use waste jute bags to cover columns and beams during curing, add admixtures to concrete which cause a reduction in the water required for curing etc.	1		general contractors scope in- applicable in construction stage	general contractors scope in- applicable in construction stage
		1			
Criterion 13	**Optimize building design to reduce conventional energy demand**				
	The WWR and/or SSR shall be limited to the prescribed levels as per Table13.1 (GRIHA Manual Introduction Volume-I) and all fenestration shall meet either the SHGC requirements of ECBC 2007OR shading requirements as suggested in 13.1.4 OR 13.1.5, as per clause 13.2.3 to 13.2.5	2		refer to drawing IITH_RCC?KNC_A1_GRIHA_criteria N13	refer to drawing IITH_RCC?KNC_A1_GRIHA_criteria N14
	Minimum 25% of the living area shall be daylighted and shall meet the level of daylight prescribed in NBC 2005 (reference Table 13.2 GRIHA Manual Introduction Volume-I)	2		Majority of spaces being labs , and can be excluded, other areas can fulfill the criterion	Majority of spaces being Library / book schelves , and can be excluded, other areas can fulfill the criterion
	If the total daylighted area>50% of the total living area and meets the prescribed level of daylight	1		Not achieved	Not achieved
	If the total daylighted area>75% of the total living area and meets the prescribed level of daylight	1			
	Over-design of artificial lighting system shall be avoided and the lighting levels in indoor spaces shall be maintained as recommended in NBC 2005.	2		designed as per NBC 2005	designed as per NBC 2006
		8			

Criterion 14	**Optimize energy performance of building within specified comfort limits**				
	All mandatory compliance measures (for all applicable buildings) as recommended in the Energy Conservation Building Code 2007 of BEE shall be complied with.	6		the HVAC (distribution side)system is designed as per ECBC 2007 , however the chilled water generation and equipments and efficiancy to be compared along with master planners for a cumulative result.	the HVAC (distribution side)system is designed as per ECBC 2007 , however the chilled water generation and equipments and efficiancy to be compared along with master planners for a cumulative result.
	The thermal comfort conditions and at least 10% reduction from the benchmark EPI, specified in GRIHA, shall be met.	2			
	If the reduction in energy consumption is $\geq$ 20% of the benchmarked figure and the thermal comfort criteria are fully met	2			
	If the reduction in energy consumption is $\geq$ 30% of the benchmarked figure and the thermal comfort criteria are fully met	4			
	If the reduction in energy consumption is $\geq$ 40% of the benchmarked figure and the thermal comfort criteria are fully met	6			
	If the reduction in energy consumption is $\geq$ 50% of the benchmarked figure and the thermal comfort criteria are fully met	8			
		16			
Criterion 15	**Utilization of fly-ash or equivalent industrial/agricultural waste as recommended by BIS in building structures**				
	Replace 15-25 % of OPC by weight with fly-ash or equivalent industrial/agricultural waste as recommended by BIS in structural concrete	1		can be achieved	can be achieved
	Replace more than 25% of OPC by weight with fly-ash or equivalent industrial/agricultural waste as recommended by BIS in structural concrete	1		can be achieved	can be achieved
	100% of the building blocks shall have at least 40% fly ash or equivalent industrial/agricultural waste as recommended by BIS (by volume)	2		can be achieved	can be achieved

	Replace 15-25 % of OPC by weight with fly-ash or equivalent industrial/agricultural waste as recommended by BIS in masonry and plaster mortar	1			
	Replace more than 25% of OPC by weight with fly-ash or equivalent industrial/agricultural waste as recommended by BIS in masonry and plaster mortar	1			
		6		4-5 points could be attempted.	4-5 points could be attempted.
Criterion 16	**Reduce embodied energy of construction is reduced by adopting material efficient technologies and/or low-energy materials**				
	The embodied energy of the structural systems of the building shall be reduced by at least 2.5% for 100% of the structural system in the building.	1		TERI to calcuate as per after scrutinizing the BOQ	TERI to calcuate as per after scrutinizing the BOQ
	The embodied energy of the structural systems of the building shall be reduced by at least 5% for 100% of the structural system in the building.	2		TERI to calcuate as per after scrutinizing the BOQ	TERI to calcuate as per after scrutinizing the BOQ
	The embodied energy of the non-structural systems of the building shall be reduced by at least 5% for 100% of the structural system in the building block work.	1		TERI to calcuate as per after scrutinizing the BOQ	TERI to calcuate as per after scrutinizing the BOQ
	The embodied energy of the non-structural systems of the building shall be reduced by at least 10% for 100% of the structural system in the building block work.	2		TERI to calcuate as per after scrutinizing the BOQ	TERI to calcuate as per after scrutinizing the BOQ
		4			

Criterion 17	**Use low-energy materials in Interiors**				
	Minimum 70% of the total quantity of materials used for sub-assembly/internal partitions/paneling/false-ceiling/in-built furniture shall be low-energy materials	2		TERI to calculate as paer BOQ	TERI to calculate as paer BOQ
	Minimum 70% of the total quantity of materials used for flooring shall be low-energy materials	1		TERI to calculate as paer BOQ	TERI to calculate as paer BOQ
	Minimum 70% of the total quantity of materials used for door, windows and frames shall be low-energy materials	1		TERI to calculate as paer BOQ	TERI to calculate as paer BOQ
		4		refer to drawing IITH_RCC?KNC_A 1_GRIHA_criteria N17	refer to drawing IITH_RCC?KNC_A 1_GRIHA_criteria N18
Criterion 18	**Renewable energy utilization**				
	Non Madatory condition **If more than 80% of total built-up area (FSI and non-FSI) falls under residential use, then the Appraisal 18.3.1(first appraisal clause - as mentioned below) is non-mandatory.**				
	The minimum size of the renewable energy system, installed on site, should be equal to 1% of the total connected load for artificial lighting (internal and external) and space conditioning loads	2		Solar farms planned by Masterplanners for campus	Solar farms planned by Masterplanners for campus
	If the total energy generated by the renewable energy system is equivalent to 5% or more of the total annual energy consumption for artificial lighting	1		provision for solar panels on the roof	
	If the total energy generated by the renewable energy system is equivalent to 10% or more of the total annual energy consumption for artificial lighting	2			

	If the total energy generated by the renewable energy system is equivalent to 20% or more of the total annual energy consumption for artificial lighting	3			
	If the total energy generated by the renewable energy system is equivalent to 30% or more of the total annual energy consumption for artificial lighting	4			
	If the total energy generated by the On-site or Off-site, renewable energy system is equivalent to 100% or more of the total annual energy consumption for artificial lighting	2			
		8			
Criterion 19	**Renewable energy based hot water system**				
	Applicability Check 3 The total hot water requirement is more than 500 liters per day	NO		refer to drawing IITH_RCC?KNC_A1_GRIHA_criteria N19	refer to drawing IITH_RCC?KNC_A1_GRIHA_criteria N20
	If the renewable hot water system saves 20-50% of the annual energy required for hot water Note: Applicable if answer is yes in Applicability Check 3 above	0			
	If the renewable hot water system saves 50-70% of the annual energy required for hot water Note: Applicable if answer is yes in Applicability Check 3 above	0			
	If the renewable hot water system saves more than 70% of the annual energy required for hot water Note: Applicable if answer is yes in Applicability Check 3 above	0			
		0			

Criterion 20	**Waste water treatment**				
	Applicability Check 4 The total waste water generation on site is more than 10kL per day.	Yes		scope of Masterplanner	scope of Masterplanner
	The treated waste water shall meet the BIS recommended disposal standards, as per table 20.3, GRIHA Note: Applicable is answer is yes to Applicability Check 4 above	2			
		2			
Criterion 21	**Water recycle and reuse (including rainwater)**				
	Applicability Check 5 Ground water table is low and ground water recharge is advisable as per Central Ground Water Board norms.	yes		scope of Masterplanner	scope of Masterplanner
	If the project demonstrates 25% annual water reuse Note: Applicable is answer is yes to Applicability Check 4 above	1			
	If the project demonstrates 50% annual water reuse Note: Applicable is answer is yes to Applicability Check 4 above	2			
	If the project demonstrates 75% annual water reuse Note: Applicable is answer is yes to Applicability Check 4 above	3			
	The surplus rainwater is recharged in to the ground after necessary filtration Note: Applicable if answer is yes to Applicability Check 5	2			
		5			

Criterion 22	**Reduction in waste during construction**				
	Hazardous and inert waste shall be segregated during construction	1		general contractors scope in- applicable in construction stage	general contractors scope in- applicable in construction stage
	The segregated waste shall be recycled and/or safely disposed				
		1			
Criterion 23	**Efficient Waste segregation**				
	Multi-coloured bins shall be provided to segregate waste at source	1		clients/masterplanners scope	clients/masterplanners scope
		1			
Criterion 24	**Storage and disposal of wastes**				
	Separate space shall be allocated for collection of waste before transfer for recycling	1		clients/masterplanners scope	clients/masterplanners scope
		1			
Criterion 25	**Resource recovery from waste**				
	Applicability Check 6 Organic solid waste generation on site is more than 100 kg/day	yes			
	Appropriate measures to be taken for zero-waste generation from site Note: Applicable if answer is yes to Applicability Check 6	2		could be achievable at CD stage	could be achievable at CD stage
		2			

Criterion 26	**Use of low-VOC paints/adhesives/sealants**				
	100% of all paints used in building interior shall be low/zero-VOC, as per Table 26.1, GRIHA Manual	1		could be achievable at CD stage	could be achievable at CD stage
	100% of all adhesives and sealants used shall be low/zero-VOC, as per Table 26.1, GRIHA	1			
	100% of all composite wood products shall not use urea-formaldehyde	1			
		3			
Criterion 27	**Minimize ozone depleting substances**				
	All insulation to be used in the building shall be CFC and HCFC free	1		achieved	achieved
	All HVAC and refrigeration equipment shall be CFC free				
	The fire-suppression systems and fire extinguishers shall be halon free				
		1			
Criterion 28	**Ensure water quality**				
	Water used for various purposes like drinking, irrigation etc. shall conform to the BIS standards (Table 28.3, GRIHA Manual)	2		clients/masterplanners scope	clients/masterplanners scope
		2			
Criterion 29	**Acceptable outdoor and indoor noise levels**				
	The measured outdoor noise levels on site conform to the standard set by the CPCB, Table 29.1, GRIHA	1		report can be prepared when the buildings are ocupied	report can be prepared when the buildings are ocupied
	The measured indoor noise levels inside the building meet the noise levels recommended by NBC 2005 (Table 29.2, GRIHA Manual)	1		achieved	achieved
		2			
Criterion 30	**Tobacco and smoke control**				
	Smoking is prohibited on site OR Necessary provisions shall be provided in the mechanical ventilation system by the HVAC consultant	1		IITH is a no-smoking campus	IITH is a no-smoking campus
		1			
Criterion 31	**Provide at least the minimum level of accessibility for persons with**				

	Buildings shall be designed in compliance with the NBC code in order to be disabled friendly	1		provisions made refer to drawing IITH_RCC?KNC_A1_GRIHA_criteria N31	provisions made refer to drawing IITH_RCC?KNC_A1_GRIHA_criteria N32
		1			
Criterion 32	**Energy audit and validation**				
	A mandatory energy audit shall be conducted by a BEE certified energy auditor	0		report can be prepared when the buildings are ocupied	report can be prepared when the buildings are ocupied
Criterion 33	**Operation and Maintenance**				
	Metering and sub-metering of energy as well as water will be carried out as per GRIHA clause	1		report can be prepared when the buildings are ocupied	report can be prepared when the buildings are ocupied
	An O & M protocol to be specified for operation and maintenance of the various systems in the building. Additionally,	1			
		2			
		97			
Criterion 34	**Innovation Points**			None	None
	Point for innovation				
	Point for innovation				
	Point for innovation				
	Point for innovation				
Total					
Score Percentile					

APPENDIX D

IMPOSED LOAD DIAGRAM

APPENDIX D : Imposed Load Diagram

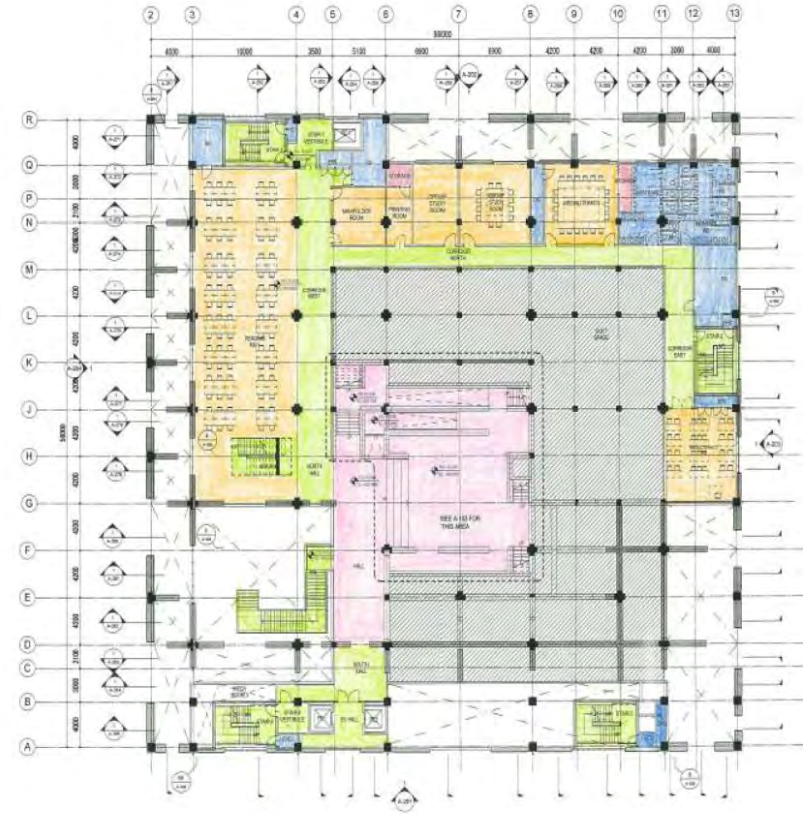
a) KNC

Floor Imposed Load of Floor (N/m^2)

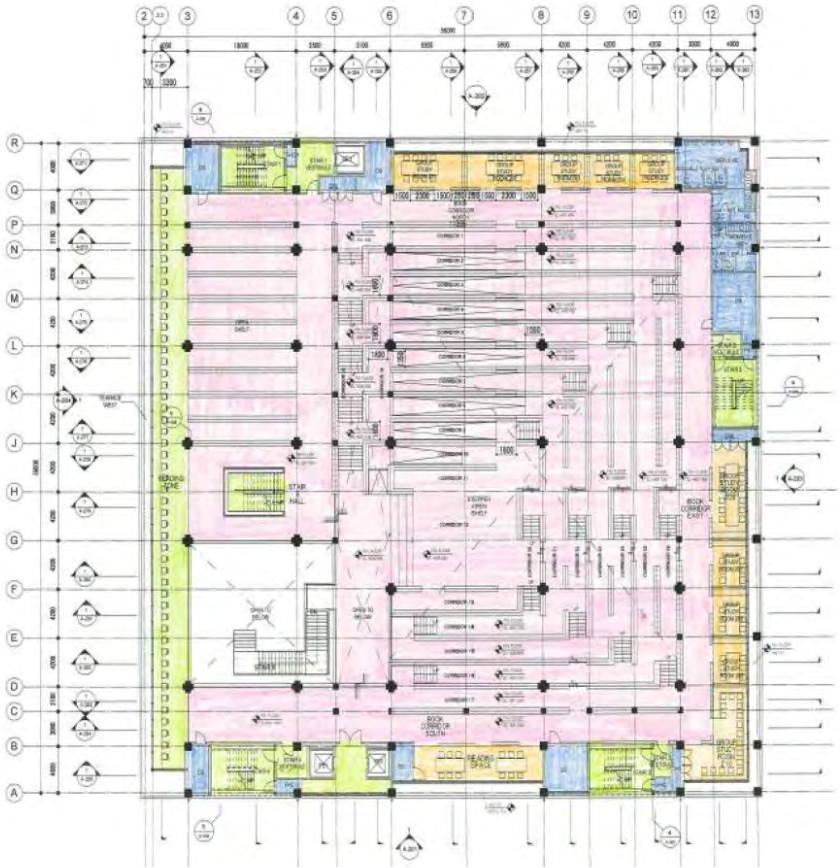
KIND OF ROOM	IMPOSED UNIFORM LOAD (N/m^2)	REMARKS
OPEN SHELF	6,000	NBC
ARCHIVE	9,600	NBC
READING ROOM	4,000	NBC (with separate storage)
GROUP STUDY ROOM	4,000	NBC
MEDIALITERACY	4,000	NBC
AUDIOVISUAL ROOM	5,000	NBC
CAFETERIA	4,000	NBC
ENTRANCE HALL	4,000	NBC
ADMINISTRATION OFFICE	4,000	NBC
CORRIDOR, STAIR	4,000	NBC
WC	2,000	NBC
KITCHEN	3,000	NBC
STORAGE	5,000	NBC
MECHANICAL ROOM	10,000	NBC
ROOF	750 1,500	NBC (inaccessible,as to 0°≦Gradient≦10°)

i. GROUND FLOOR LEVEL

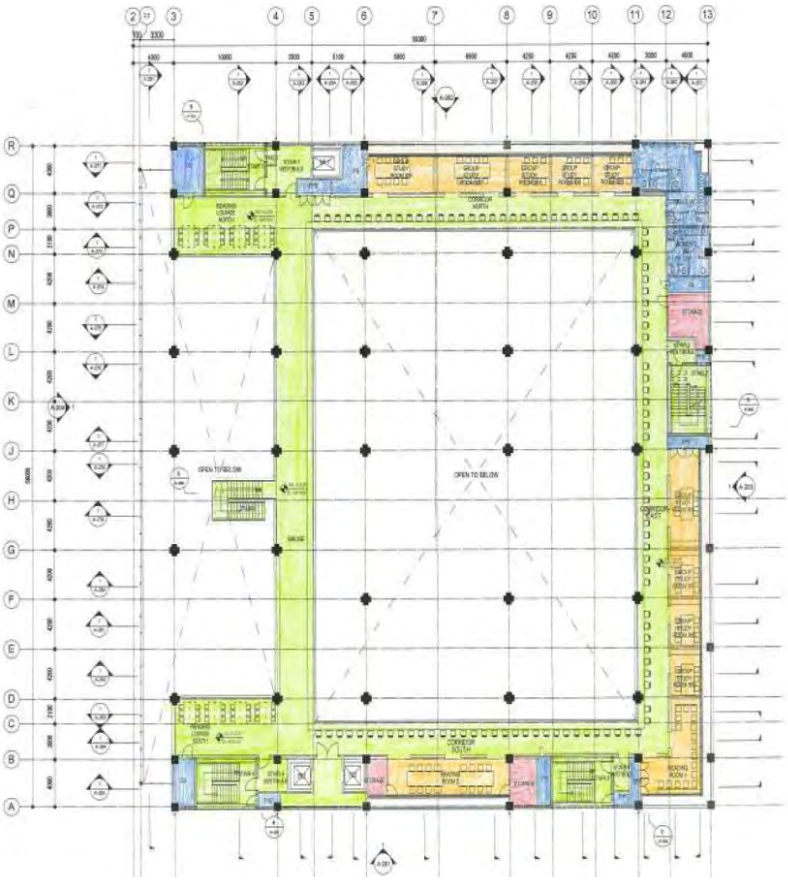
ii. 1ST FLOOR LEVEL



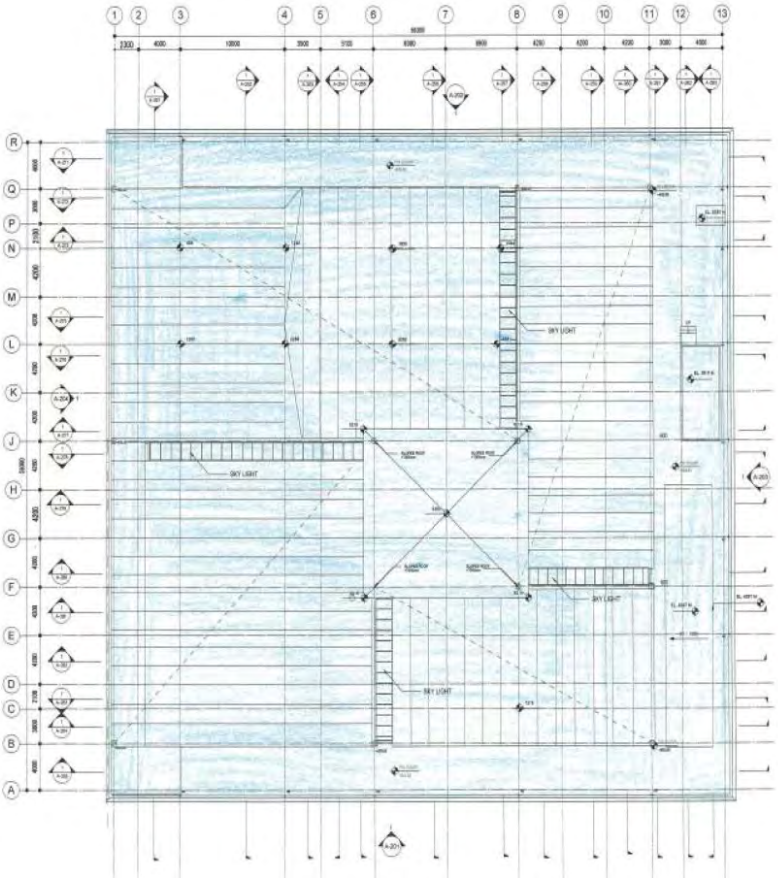
iii) 2nd FLOOR LEVEL



iv) 3rd FLOOR LEVEL



v) ROOF LEVEL

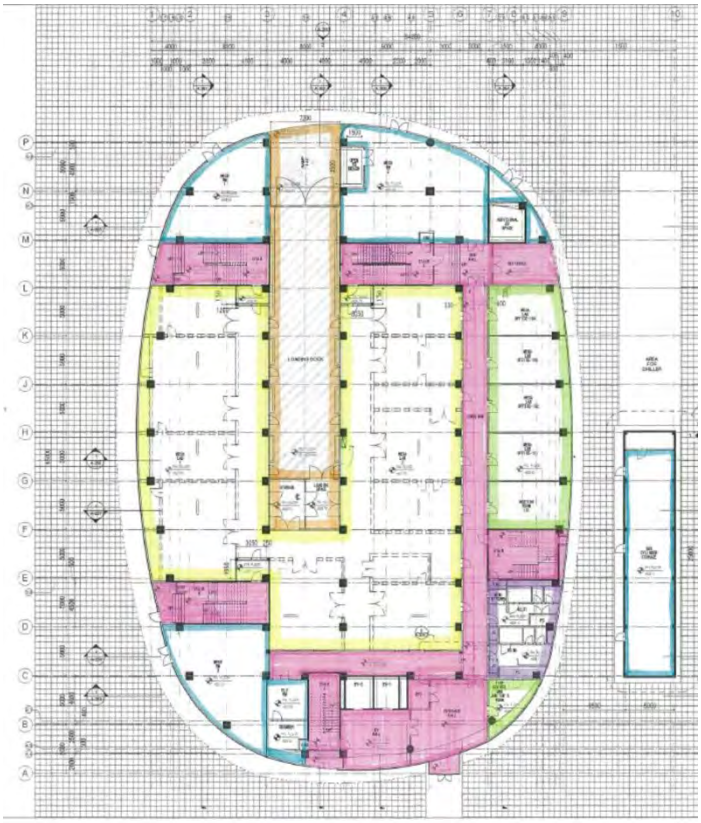


ii) RCC

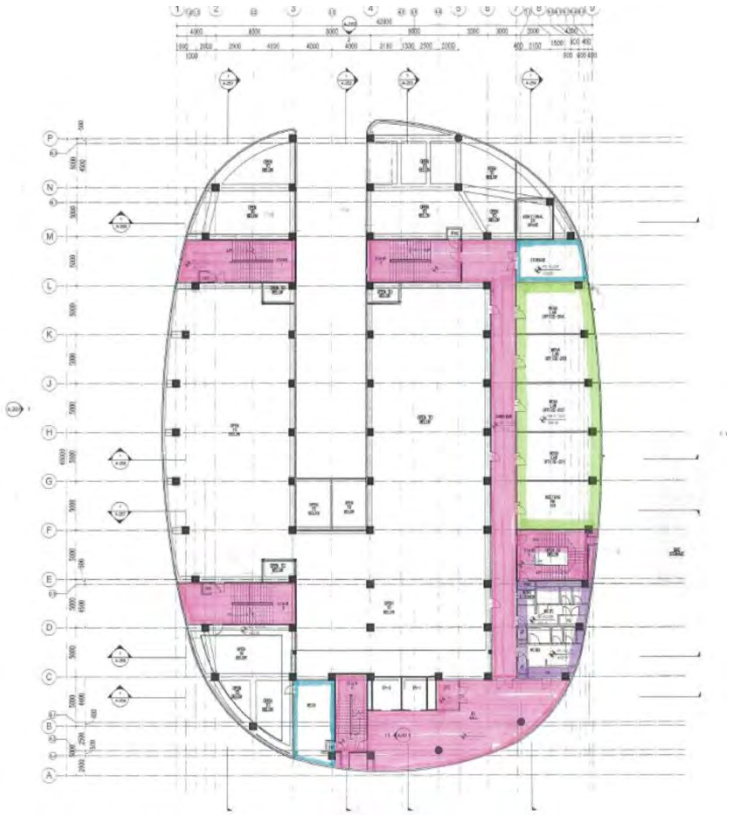
Imposed load for rooms

Kind of room		Imposed uniform load (N/m²)	Remarks
RESEARCH CENTER COMPLEX	MEGA LAB	15,000	Shall be determined by concerning machine weight, floor finishing such as raise floor system and future possible usage changes.
	WET LAB	10,000	
	DRY LAB	7,000	
	SLOPE TO RECEIVING DOCK	7,500	Concerning trucks and cargo weight
	OFFICE, LOUNGE	4,000	NBC
	MEETING ROOM	4,000	NBC
	CORRIDOR, STAIRCASE	4,000	NBC
	BALCONY	4,000	NBC
	FLAT ROOF (accessible)	1,500	NBC （ 0°≦Gradient≦10°）

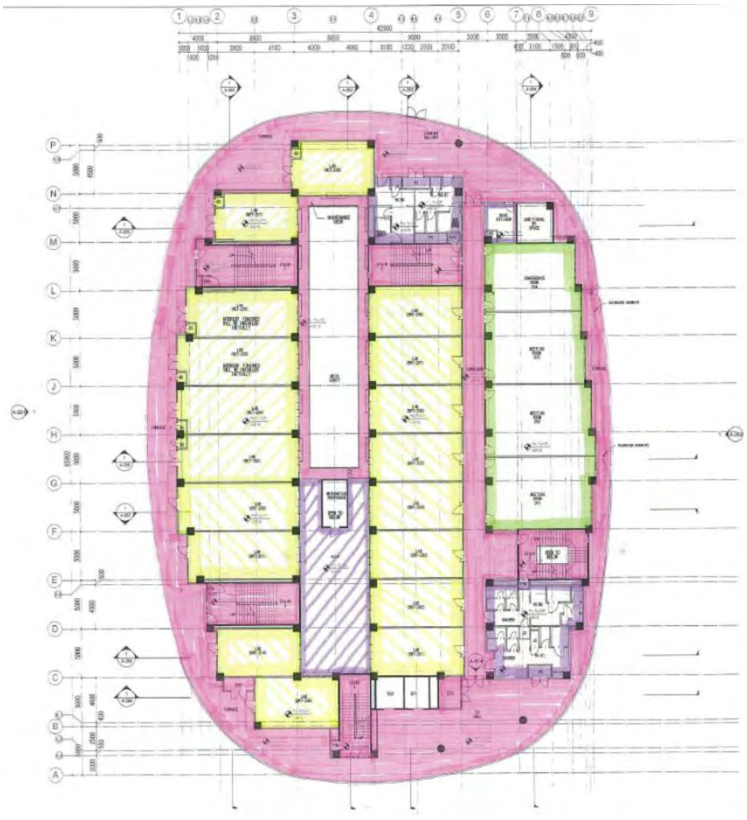
i) GROUND FLOOR LEVEL



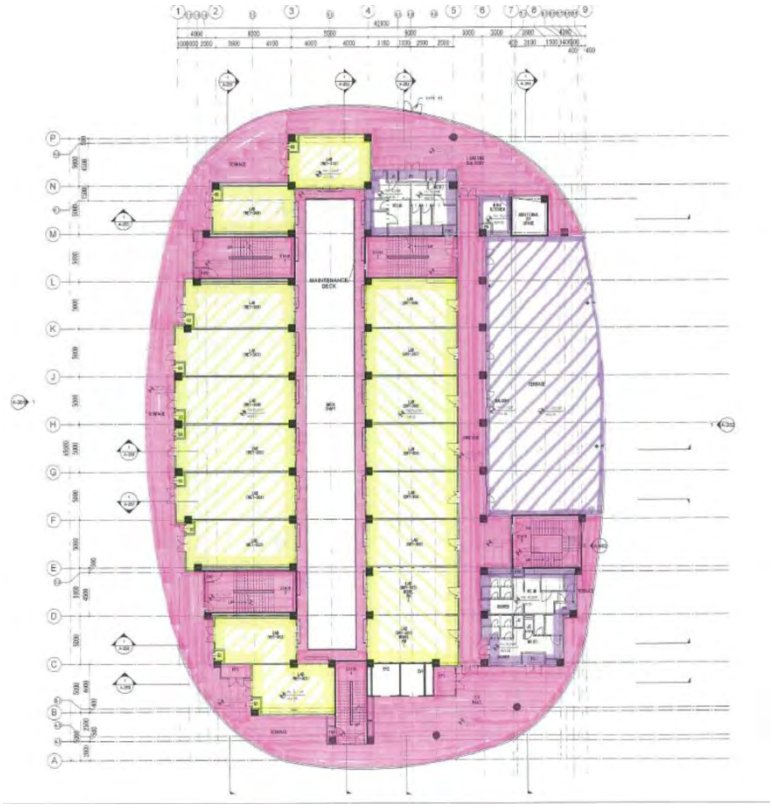
ii) 1st FLOOR LEVEL



iii) 2nd FLOOR LEVEL



iv) 3rd FLOOR LEVEL



v) 4th FLOOR LEVEL

APPENDIX E

KNC & RCC DRAWINGS

KNOWLEDGE CENTRE

AT INDIAN INSTITUTE OF TECHNOLOGY HYDERABAD

INDIAN INSTITUTE OF TECHNOLOGY
HYDERABAD

CONCEPT DESIGN

THE UNIVERSITY OF TOKYO

IITH CAMPUS DESIGN STUDIO
Faculty of Engineering Building 1, Rm#331
7-3-1 Hongo, Bunkyo-ku, Tokyo 113-8656, JAPAN

ARCHITECT/ENGINEER

NIHON SEKKEI

NIHON SEKKEI INTERNATIONAL INC.
NIHON SEKKEI INC.
6-5-1 Nishi-Shinjuku, Shinjuku,
Tokyo 163-1329 JAPAN

ASSOCIATE ARCHITECT

Architecture Planning Landscape design workshop

APL DESIGN WORKSHOP INC.
4-2-1 Yushima, Bunkyo-ku
Tokyo 113-0034 JAPAN

ARCHITECT OF RECORD

ASTUTE™
ENGINEERING SERVICES PVT. LTD.
9 & 10, Symphony C, Range Hills,
Bhosale Nagar, Pune - 411 020, (India)

LOCAL STRUCTURAL CONSULTANTS:

JW CONSULTANTS LLP

PUNE OFFICE
SAI CHAMBERS, 16, PUNE-MUMBAI ROAD
WAKDEWADI, PUNE- 411003.

MUMBAI OFFICE
314 , 3RD FLOOR, PRABHADEVI INDUSTRIAL
ESTATE,VEER SAVARKAR MARG,
PRABHADEVI, MUMBAI-400025

HVAC CONSULTANTS:

R S Kulkarni Fellow & Life Member - ASHRAE
HVACR Consultant
Office No., 512 + 513, Siddharth Towers,
Sangam Press Road, Kothrud, Pune 411 029
Tel. No. : 020 2544 60 14 / 2546 59 20 / 3252 20 69
FAX : 020 - 2543 6684 Email : rskulkarni@rskhvacr.com

PLUMBING & FIRE FIGHTING CONSULTANTS :

M/s Ace Consultants
Omkar Building, Flat No. 2,
P.O. No. 20, S.No.117/118,
Madhav Baug Co. Op. Hsg. Society,
Near Shashikant Sutar Bungalow,
Shivtirth Nagar,PUNE - 411 038

LOCAL ELECTRICAL CONSULTANTS :

abhiyanta
ELECTRICAL CONSULTANTS & ENGINEERS
AN ISO 9001:2008 COMPANY
www.abhiyantaconsultants.com

Shree Swami Krupa, Plot No. 6,
Plot No. 6, Neelkamal Housing Soc.
Karvenagar, Pune - 411 052,
Telefax: +91 20 25462173 / 25410691

ARCHITECTURE

ISSUED FOR DESIGN DEVELOPMENT 100%
OCTOBER 31ST, 2014

BIOTECHNOLOGY

AD 2

MA
MATHEMATICS

LECTURE
COMPLEX 1

SITE BOUNDARY

RESERVED FOR
FUTURE
EXTENSION

DRIVEWAY

LOADING

BOH
ENTRANCE

UP

EAST
ENTRANCE

MAIN
ENTRANCE

PGH 1+2

CAMPUS PLAZA

LEGENDS:

GRASS

PAVING

ASPHALT

LECTURE
COMPLEX 2

MAIN BUILDING
(ADMINISTRATION)

PGH 3+4

1 SITE PLAN
1 : 300

INDIAN INSTITUTE OF TECHNOLOGY HYDERABAD

KNOWLEDGE CENTER

IITH CAMPUS DESIGN STUDIO

Faculty of Engineering Building1,Rm #331
7-3-1 Hongo,Bunkyo-Ku,Tokyo 113-8656,JAPAN

Architect/Engineer

NIHON SEKKEI
INTERNATIONAL INC.

NIHON SEKKEI INC.

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Tokyo 163-1329 JAPAN

APL DESIGN WORKSHIP INC.

4-2-1 Yushima,Bunkyo-Ku
Tokyo 113-0034 JAPAN

Architect Of Record

9 & 10, Symphony C, Range Hills,
Bhosale Nagar, Pune - 411 020, (India)

No.	Date	Issue
07	31 OCT 2014	ISSUED FOR DD 100%
06	08 SEP 2014	ISSUED FOR DD 90%
05	03 AUG 2014	ISSUED FOR DD 70%
04	04 JUL 2014	ISSUED FOR DD 50%
03	17 JUN 2014	ISSUED FOR COST ESTIMATION
02	31 MAY 2014	ISSUED FOR DD 30%
01	31 MAR 2014	ISSUED FOR SD

GENERAL NOTES

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15. ALL ALUMINUM HAVE SECONDARY ELECTROLYTIC TREATMENT.

NOT FOR CONSTRUCTION

SIGN. SEAL.

DESIGN DEVELOPMENT

Project Name

KNOWLEDGE CENTER
AT CAMPUS OF
IIT HYDERABAD

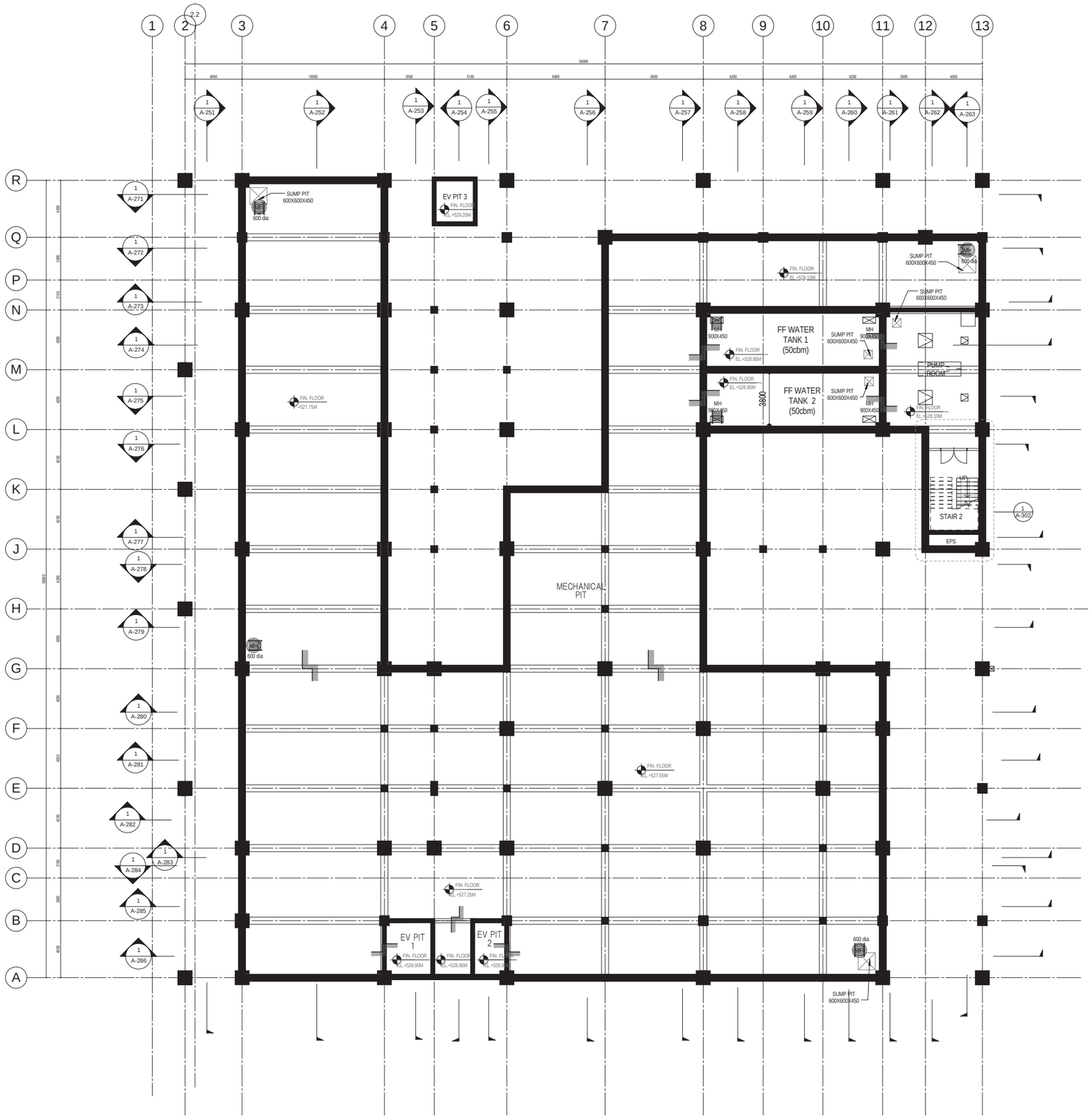
Sheet Title

SITE PLAN

Sheet Number

KNC- A-051

Date	Scale	Drawn	Checked
2014/10/31	As indicated	NSI	--



1 PIT LEVEL PLAN
1 : 150

INDIAN INSTITUTE OF TECHNOLOGY HYDERABAD

KNOWLEDGE CENTER

THE UNIVERSITY OF TOKYO
IITH CAMPUS DESIGN STUDIO
Faculty of Engineering Building1,Rm #331
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Architect/Engineer
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NIHON SEKKEI INC.
6-5-1 Nishi-Shinjuku,Shinjuku
Tokyo 163-1329 JAPAN

APL DESIGN WORKSHIP INC.
4-2-1 Yushima,Bunkyo-Ku
Tokyo 113-0034 JAPAN

Architect Of Record
ASTUTE ENGINEERING SERVICES PVT. LTD.
9 & 10, Symphony C, Range Hills,
Bhosale Nagar, Pune - 411 020, (India)

No.	Date	Issue
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01	31 MAR 2014	ISSUED FOR SD

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NOT FOR CONSTRUCTION

SIGN. SEAL.

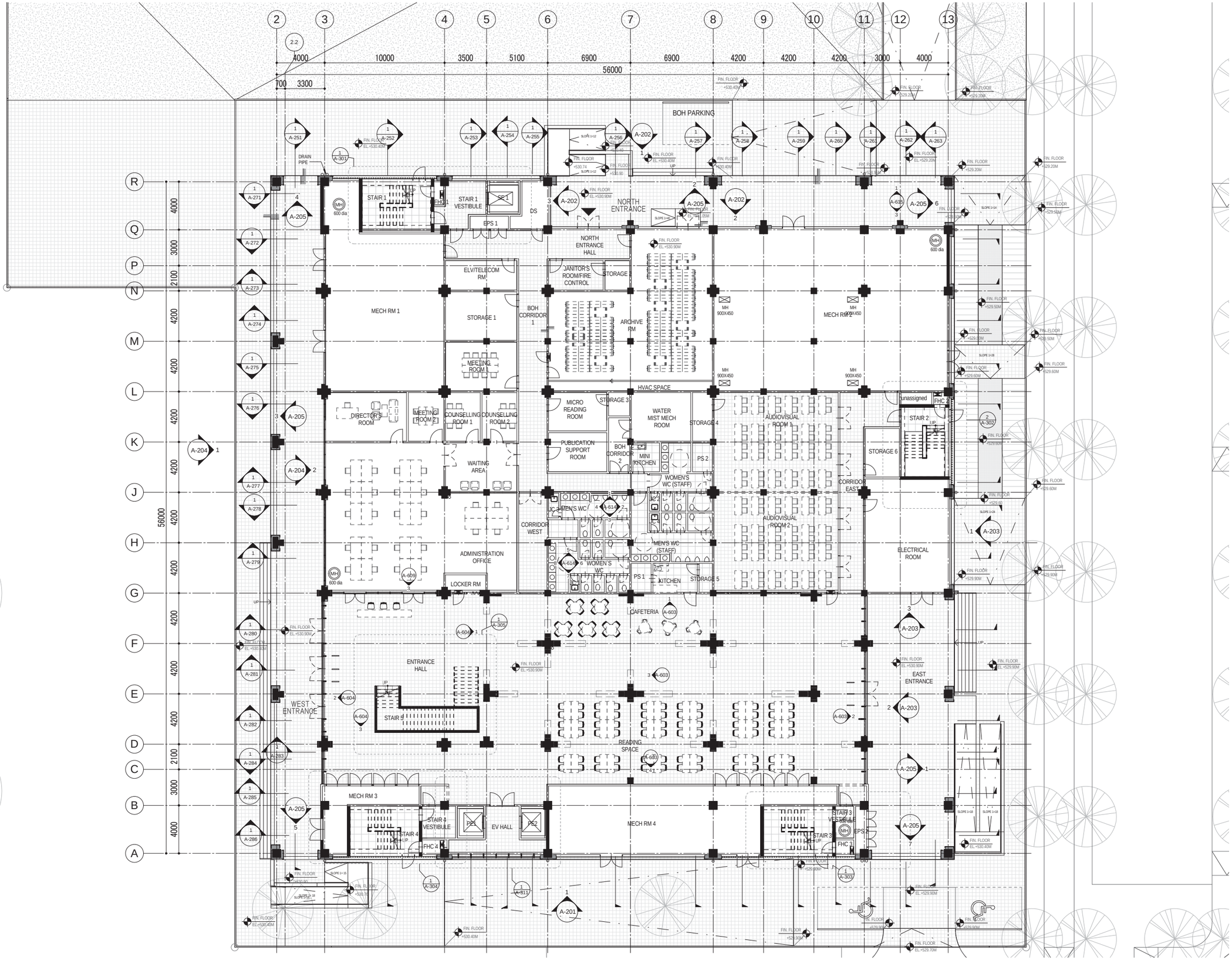
DESIGN DEVELOPMENT

Project Name
KNOWLEDGE CENTER AT CAMPUS OF IIT HYDERABAD

Sheet Title
PIT LEVEL PLAN

Sheet Number
KNC- A-100

Date	Scale	Drawn	Checked
2014/10/31	1 : 150	NSI	--



1 GROUND FLOOR PLAN
1 : 150

INDIAN INSTITUTE OF TECHNOLOGY HYDERABAD

KNOWLEDGE CENTER

THE UNIVERSITY OF TOKYO
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Faculty of Engineering Building1,Rm #331
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Architect/Engineer
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NIHON SEKKEI INC.
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Tokyo 163-1329 JAPAN

APL DESIGN WORKSHIP INC.
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Tokyo 113-0034 JAPAN

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ASTUTE ENGINEERING SERVICES PVT. LTD.
9 & 10, Symphony C, Range Hills,
Bhosale Nagar, Pune - 411 020, (India)

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DESIGN DEVELOPMENT

Project Name

KNOWLEDGE CENTER AT CAMPUS OF IIT HYDERABAD

Sheet Title

GROUND FLOOR PLAN

Sheet Number

KNC- A-101

Date	Scale	Drawn	Checked
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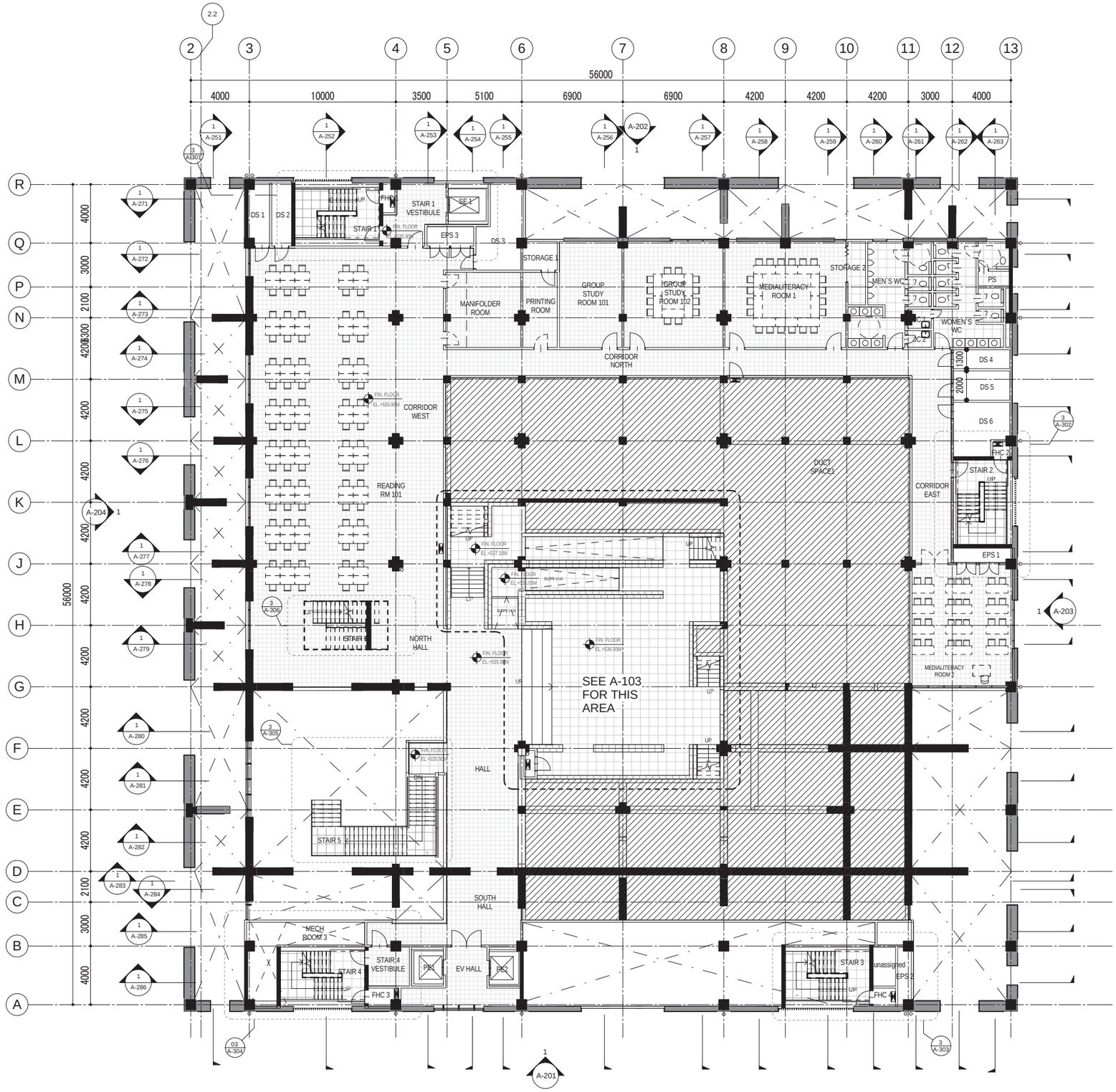

1 FIRST FLOOR PLAN
1 : 150

INDIAN INSTITUTE OF TECHNOLOGY HYDERABAD

KNOWLEDGE CENTER

THE UNIVERSITY OF TOKYO
IITH CAMPUS DESIGN STUDIO
Faculty of Engineering Building1,Rm #331
7-3-1 Hongo,Bunkyo-Ku,Tokyo 113-8656,JAPAN

Architect/Engineer
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NIHON SEKKEI INC.
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Tokyo 163-1329 JAPAN

APL DESIGN WORKSHIP INC.
4-2-1 Yushima,Bunkyo-Ku
Tokyo 113-0034 JAPAN

Architect Of Record
ASTUTE ENGINEERING SERVICES PVT. LTD.
9 & 10, Symphony C, Range Hills,
Bhosale Nagar, Pune - 411 020, (India)

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NOT FOR CONSTRUCTION

SIGN. SEAL.

DESIGN DEVELOPMENT

Project Name

KNOWLEDGE CENTER AT CAMPUS OF IIT HYDERABAD

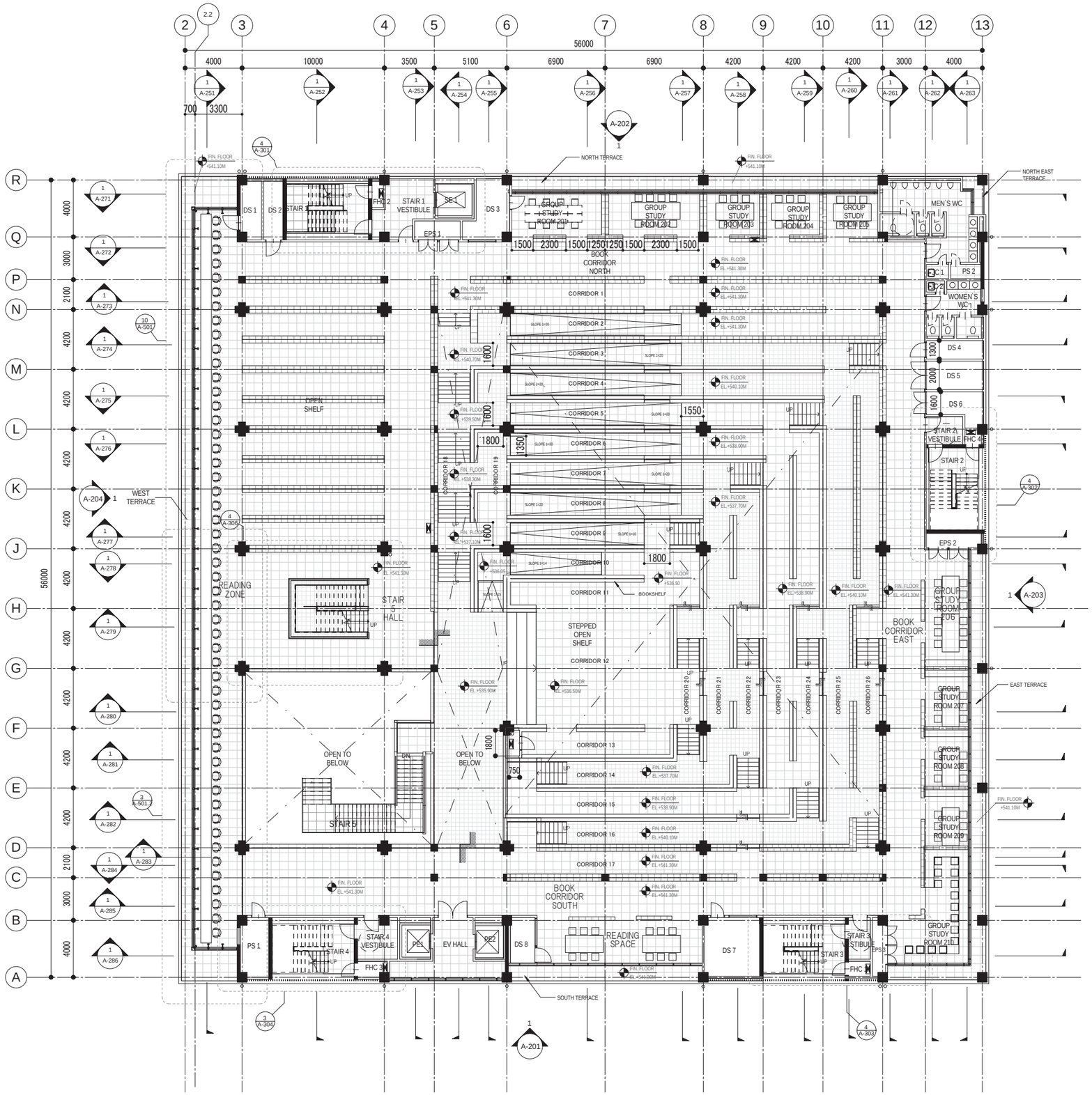
Sheet Title

FIRST FLOOR PLAN

Sheet Number

KNC- A-102

Date	Scale	Drawn	Checked
2014/10/31	1 : 150	NSI	--



1 SECOND FLOOR PLAN
1 : 150

INDIAN INSTITUTE OF TECHNOLOGY HYDERABAD

KNOWLEDGE CENTER

THE UNIVERSITY OF TOKYO
IITH CAMPUS DESIGN STUDIO
Faculty of Engineering Building1,Rm #331
7-3-1 Hongo,Bunkyo-Ku,Tokyo 113-8656,JAPAN

Architect/Engineer

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APL DESIGN WORKSHIP INC.
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Architect Of Record

ASTUTE ENGINEERING SERVICES PVT. LTD.
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NOT FOR CONSTRUCTION

SIGN. SEAL.

DESIGN DEVELOPMENT

Project Name

KNOWLEDGE CENTER AT CAMPUS OF IIT HYDERABAD

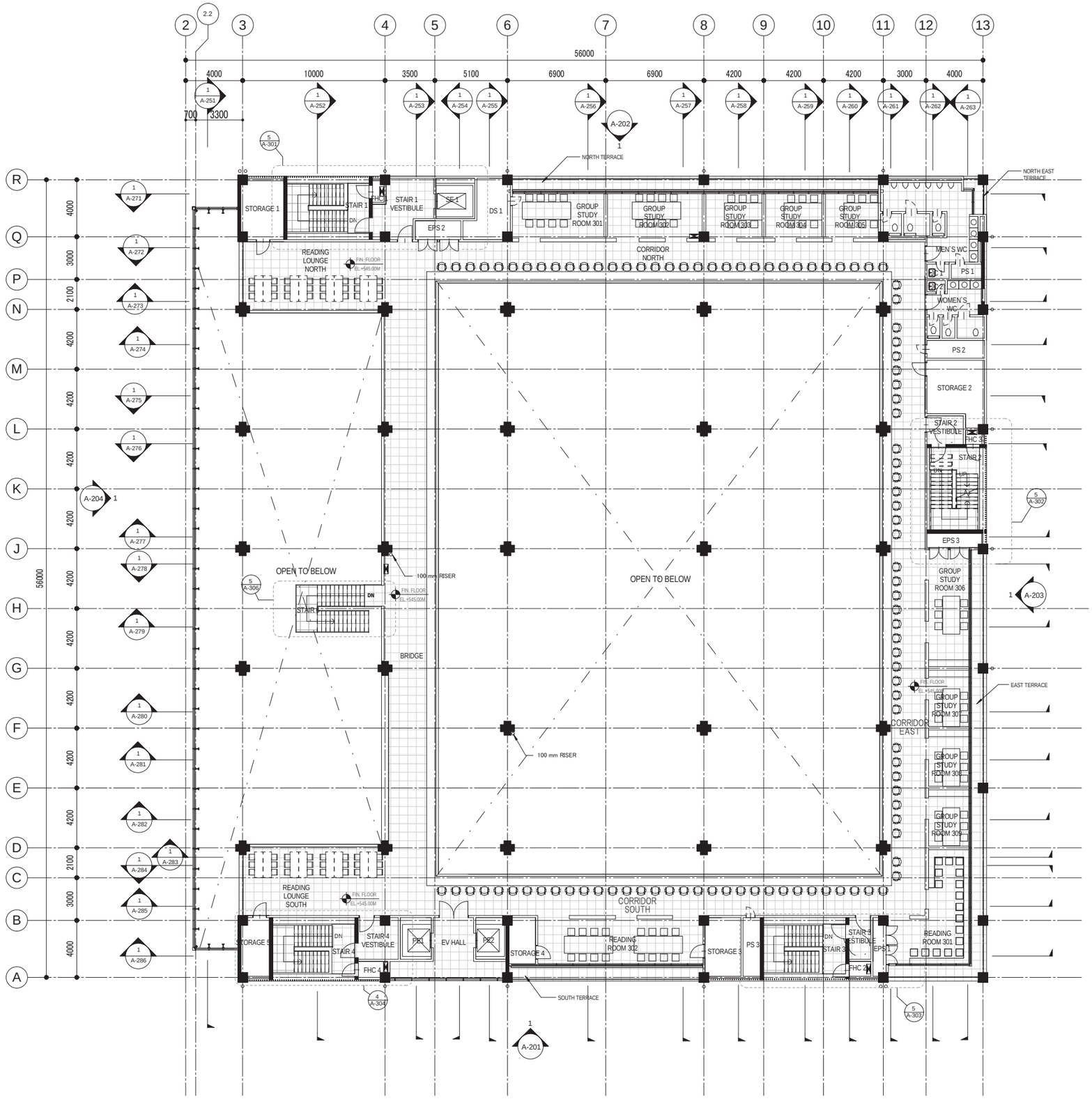
Sheet Title

SECOND FLOOR PLAN

Sheet Number

KNC- A-103

Date	Scale	Drawn	Checked
2014/10/31	1 : 150	NSI	Checker



1 THIRD FLOOR PLAN
1 : 150

INDIAN INSTITUTE OF TECHNOLOGY HYDERABAD

KNOWLEDGE CENTER

THE UNIVERSITY OF TOKYO
IITH CAMPUS DESIGN STUDIO
Faculty of Engineering Building1,Rm #331
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01	31 MAR 2014	ISSUED FOR SD

GENERAL NOTES

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14.ALL STEEL EXPOSED OUTSIDE IS MADE OF GALVANIZED STEEL WITH PAINTING.
15. ALL ALUMINUM HAVE SECONDARY ELECTROLYTIC TREATMENT.

NOT FOR CONSTRUCTION

SIGN. SEAL.

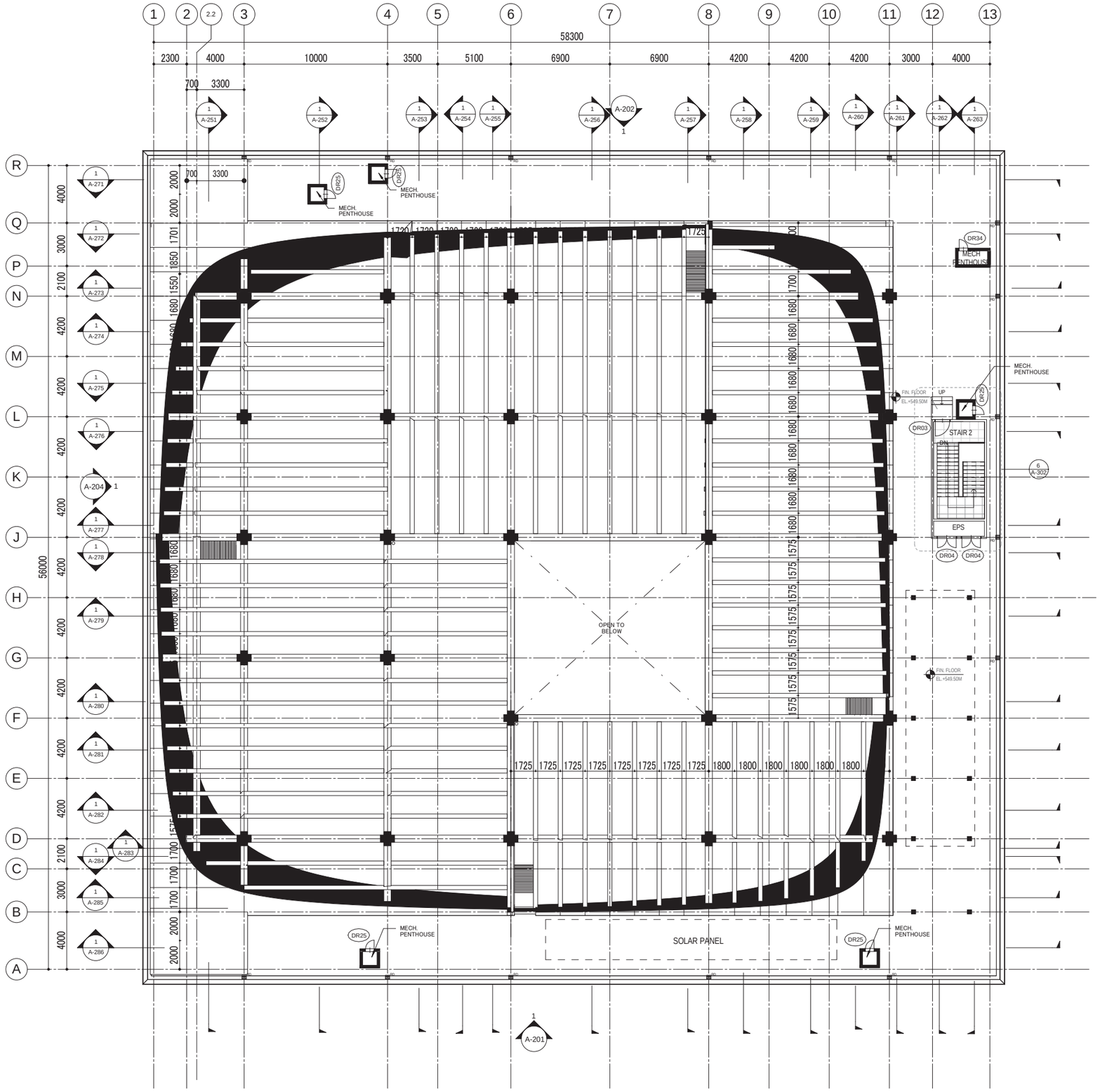
DESIGN DEVELOPMENT

Project Name
KNOWLEDGE CENTER AT CAMPUS OF IIT HYDERABAD

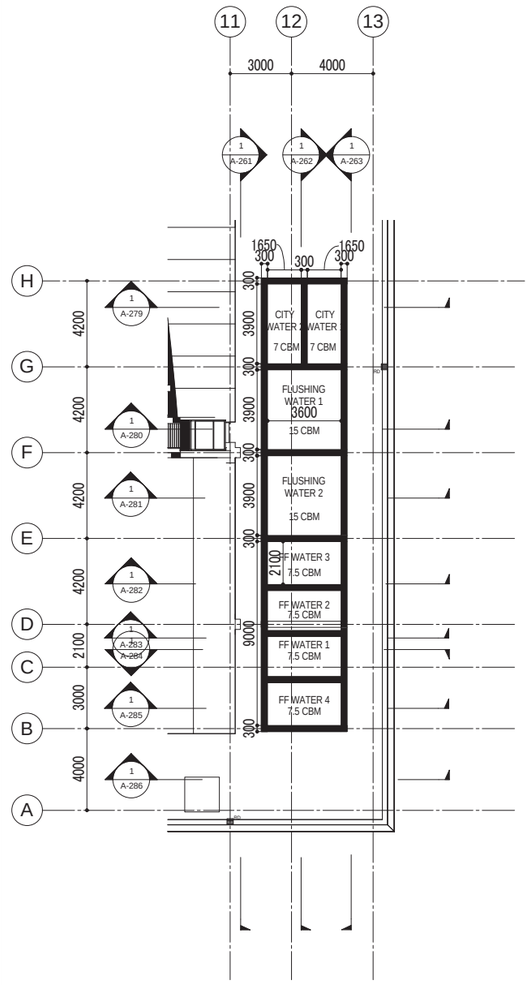
Sheet Title
THIRD FLOOR PLAN

Sheet Number
KNC- A-104

Date	Scale	Drawn	Checked
2014/10/31	1 : 150	NSI	Checker



1 ROOF LEVEL PLAN - ACCESSIBLE AREA
1 : 150



2 WATER TANK
1 : 150

INDIAN INSTITUTE OF TECHNOLOGY HYDERABAD

KNOWLEDGE CENTER

THE UNIVERSITY OF TOKYO
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Tokyo 113-0034 JAPAN

Architect Of Record
ASTUTE ENGINEERING SERVICES PVT. LTD.
9 & 10, Symphony C, Range Hills,
Bhosale Nagar, Pune - 411 020, (India)

No.	Date	Issue
07	31 OCT 2014	ISSUED FOR DD 100%
06	08 SEP 2014	ISSUED FOR DD 90%
05	03 AUG 2014	ISSUED FOR DD 70%
04	04 JUL 2014	ISSUED FOR DD 50%
03	17 JUN 2014	ISSUED FOR COST ESTIMATION
02	31 MAY 2014	ISSUED FOR DD 30%
01	31 MAR 2014	ISSUED FOR SD

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NOT FOR CONSTRUCTION

SIGN. SEAL.

DESIGN DEVELOPMENT

Project Name

KNOWLEDGE CENTER AT CAMPUS OF IIT HYDERABAD

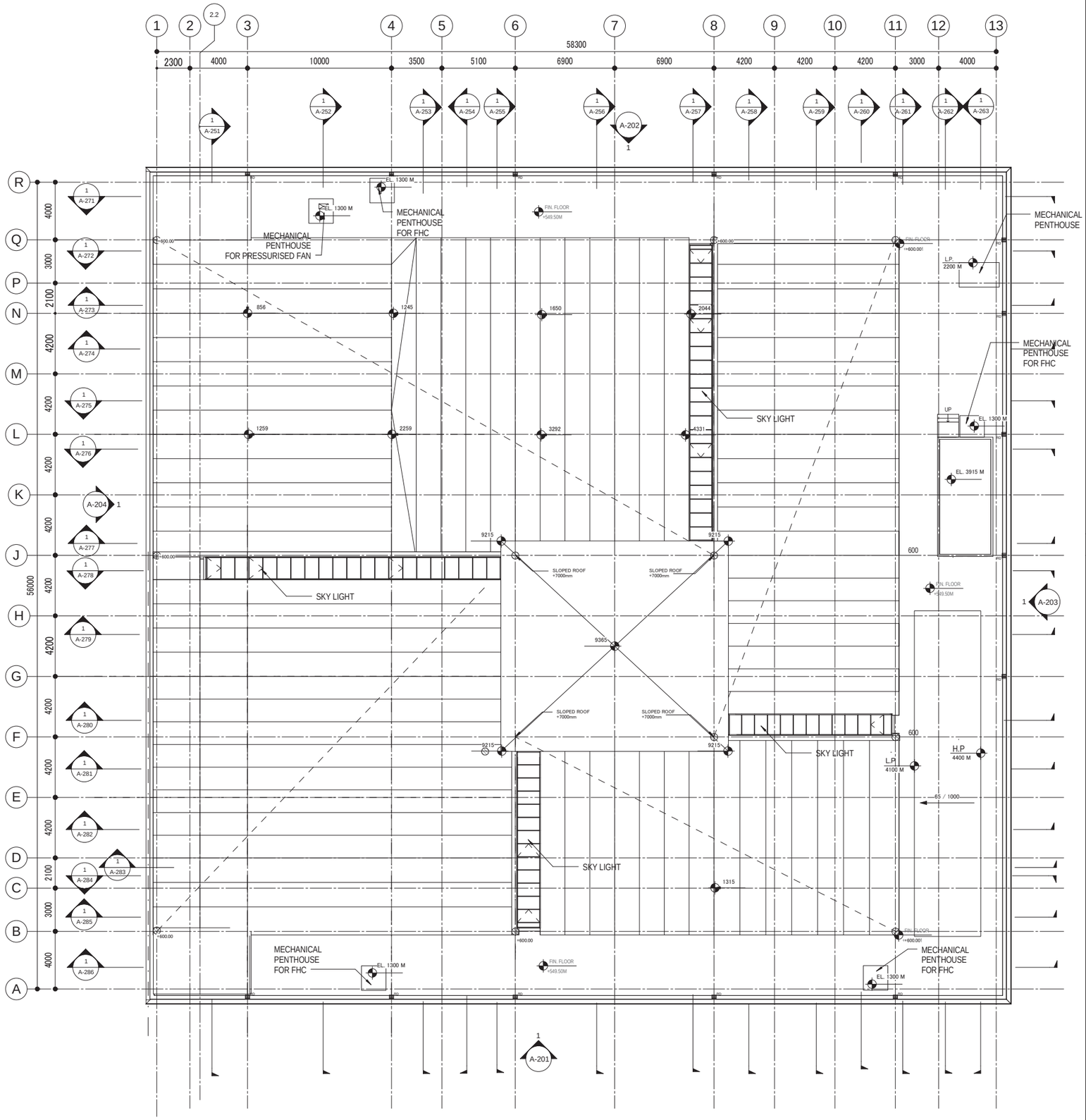
Sheet Title

MAINTENANCE ROOF LEVEL PLAN

Sheet Number

KNC- A-105

Date	Scale	Drawn	Checked
2014/10/31	1 : 150	NSI	Checker



1 ROOF PLAN - OVERALL
1 : 150

3 ABOVE SOFFIT
1 : 150

2 MAINTENANCE CATWALK
1 : 150

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SIGN. SEAL.

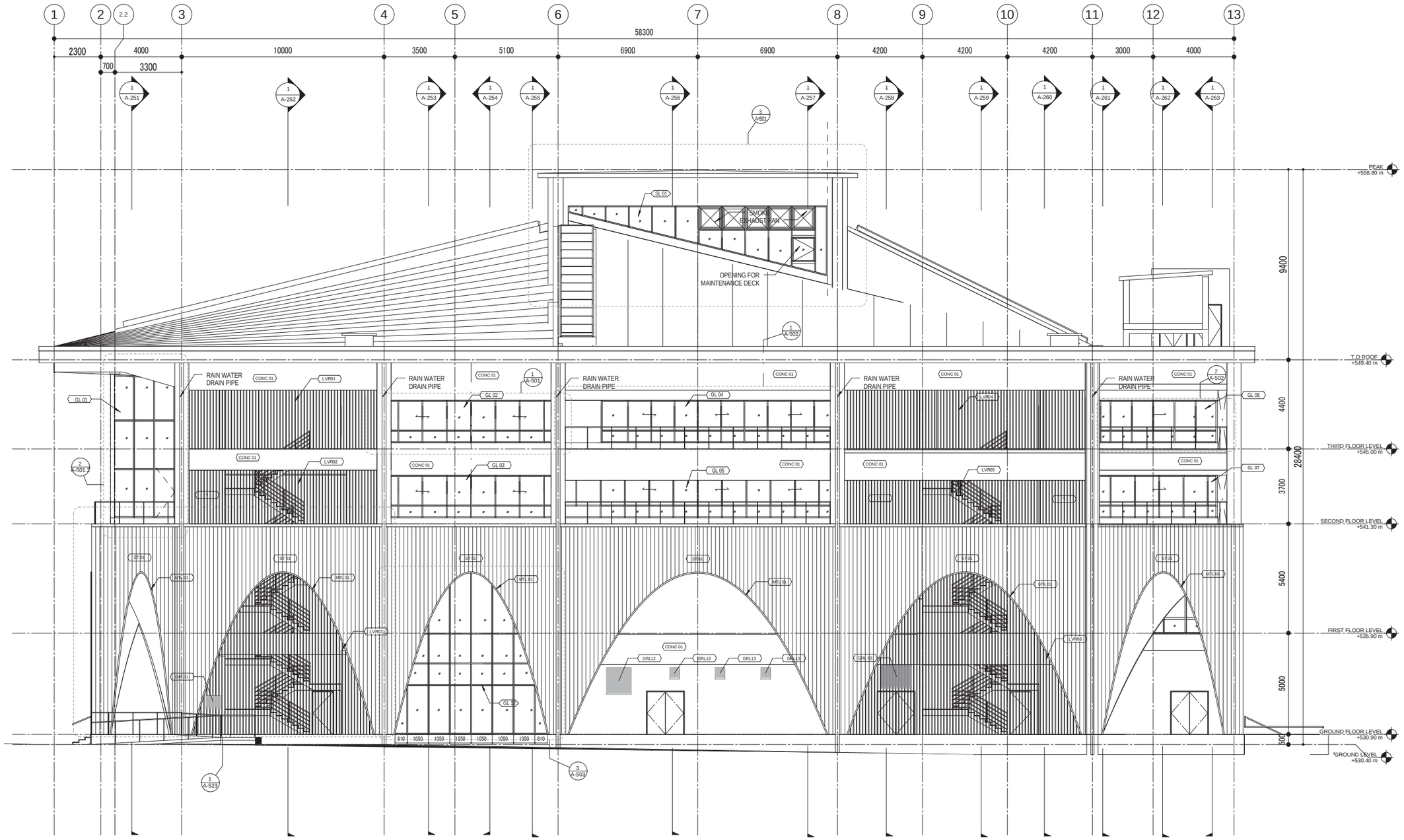
DESIGN DEVELOPMENT

Project Name
KNOWLEDGE CENTER AT CAMPUS OF IIT HYDERABAD

Sheet Title
ROOF PLAN

Sheet Number
KNC- A-106

Date	Scale	Drawn	Checked
2014/10/31	1 : 150	NSI	Checker



1 ELEVATION SOUTH
1 : 100

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SIGN. SEAL.

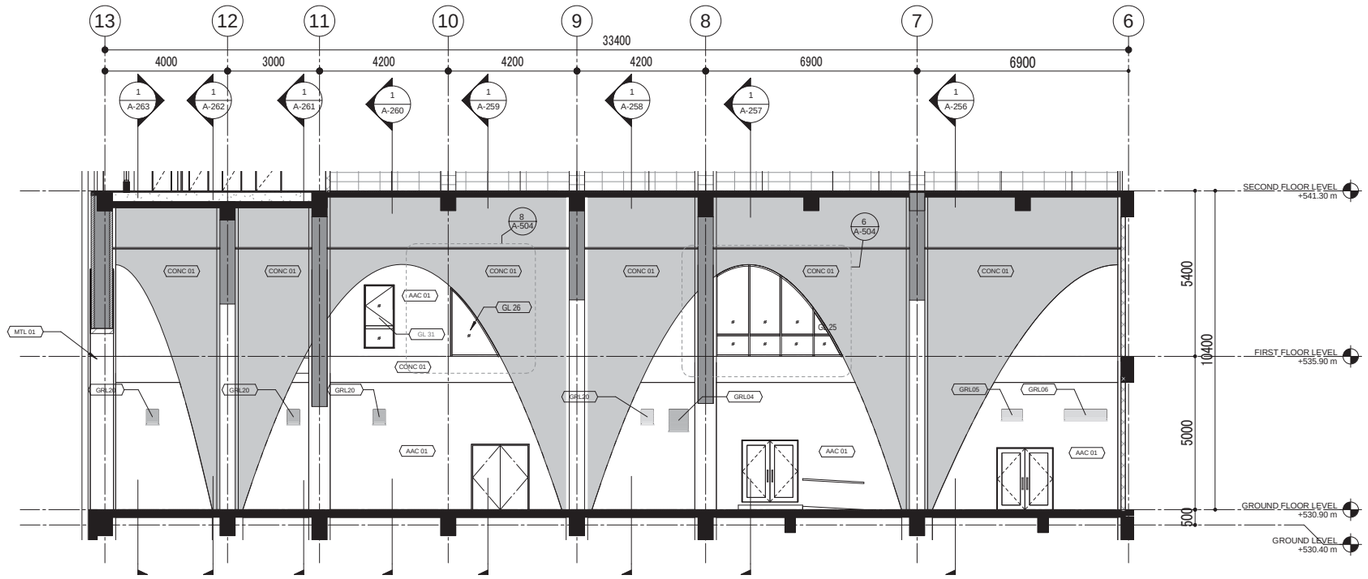
DESIGN DEVELOPMENT

Project Name
KNOWLEDGE CENTER AT CAMPUS OF IIT HYDERABAD

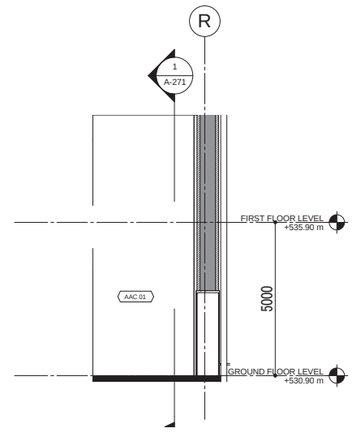
Sheet Title
BUILDING ELEVATION SOUTH

Sheet Number
KNC- A-201

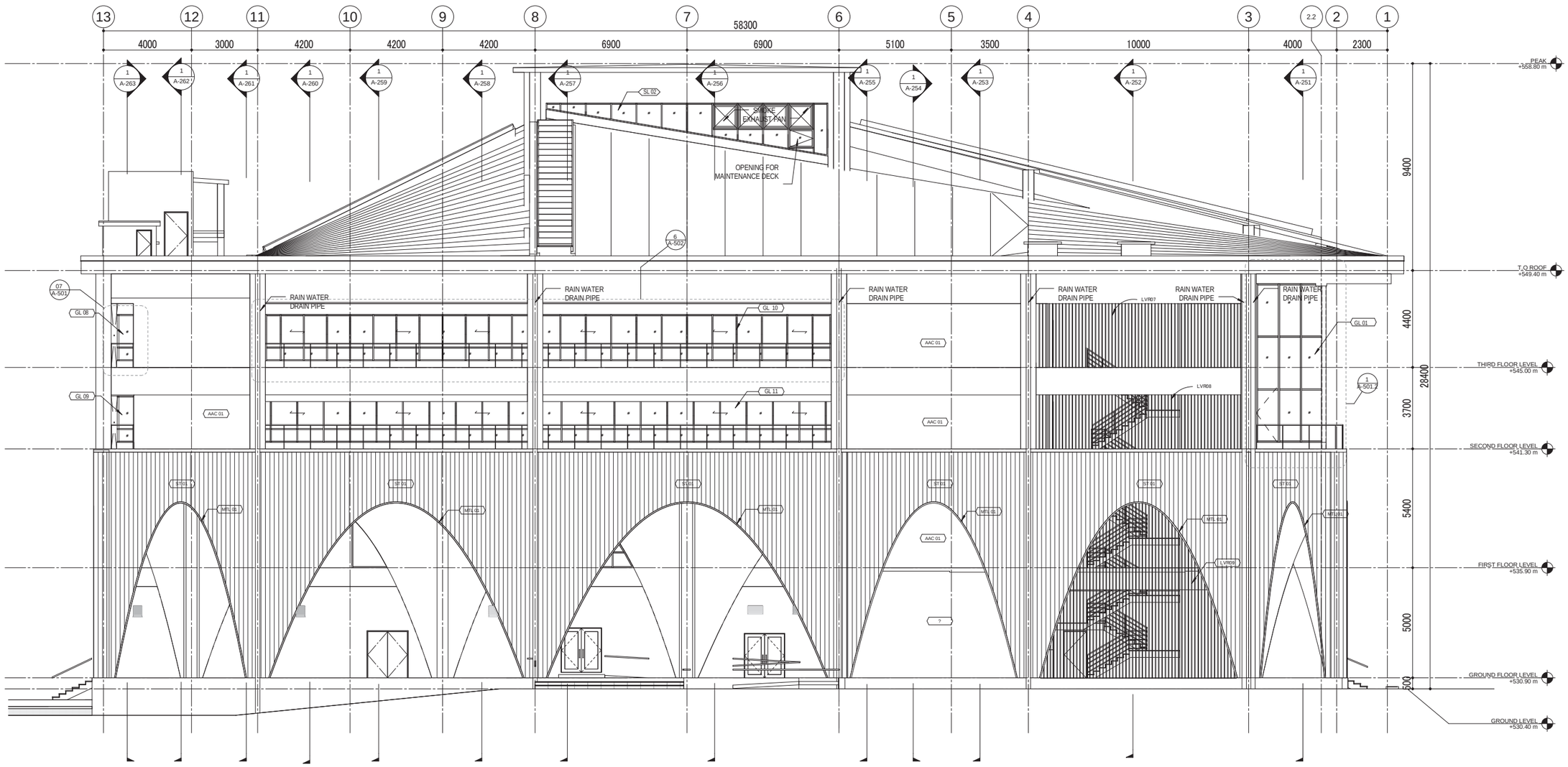
Date	Scale	Drawn	Checked
2014/10/31	1 : 100	NSI	--



2 ELEVATION NORTH 2
1 : 100



3 ELEVATION WEST 2 - BOH ENTRANCE
1 : 100



1 ELEVATION NORTH 1
1 : 100

INDIAN INSTITUTE OF TECHNOLOGY HYDERABAD

KNOWLEDGE CENTER

THE UNIVERSITY OF TOKYO
IITH CAMPUS DESIGN STUDIO
Faculty of Engineering Building1,Rm #331
7-3-1 Hongo,Bunkyo-Ku,Tokyo 113-8656,JAPAN

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SIGN. SEAL.

DESIGN DEVELOPMENT

Project Name

KNOWLEDGE CENTER
AT CAMPUS OF
IIT HYDERABAD

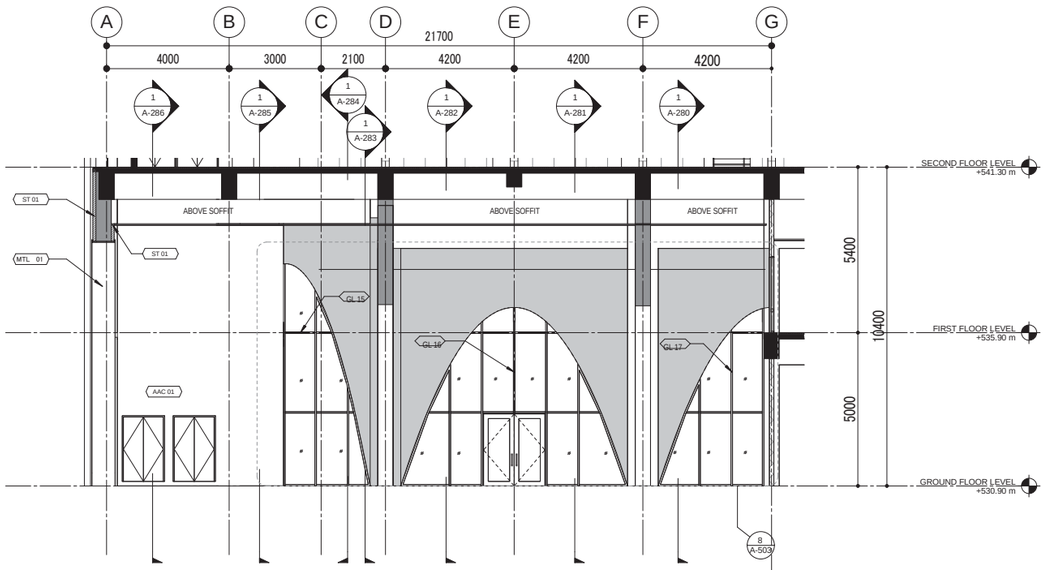
Sheet Title

BUILDING ELEVATION NORTH

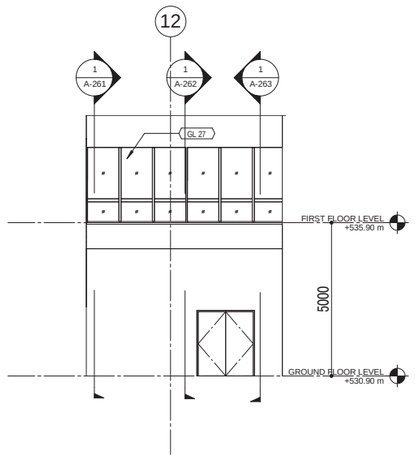
Sheet Number

KNC- A-202

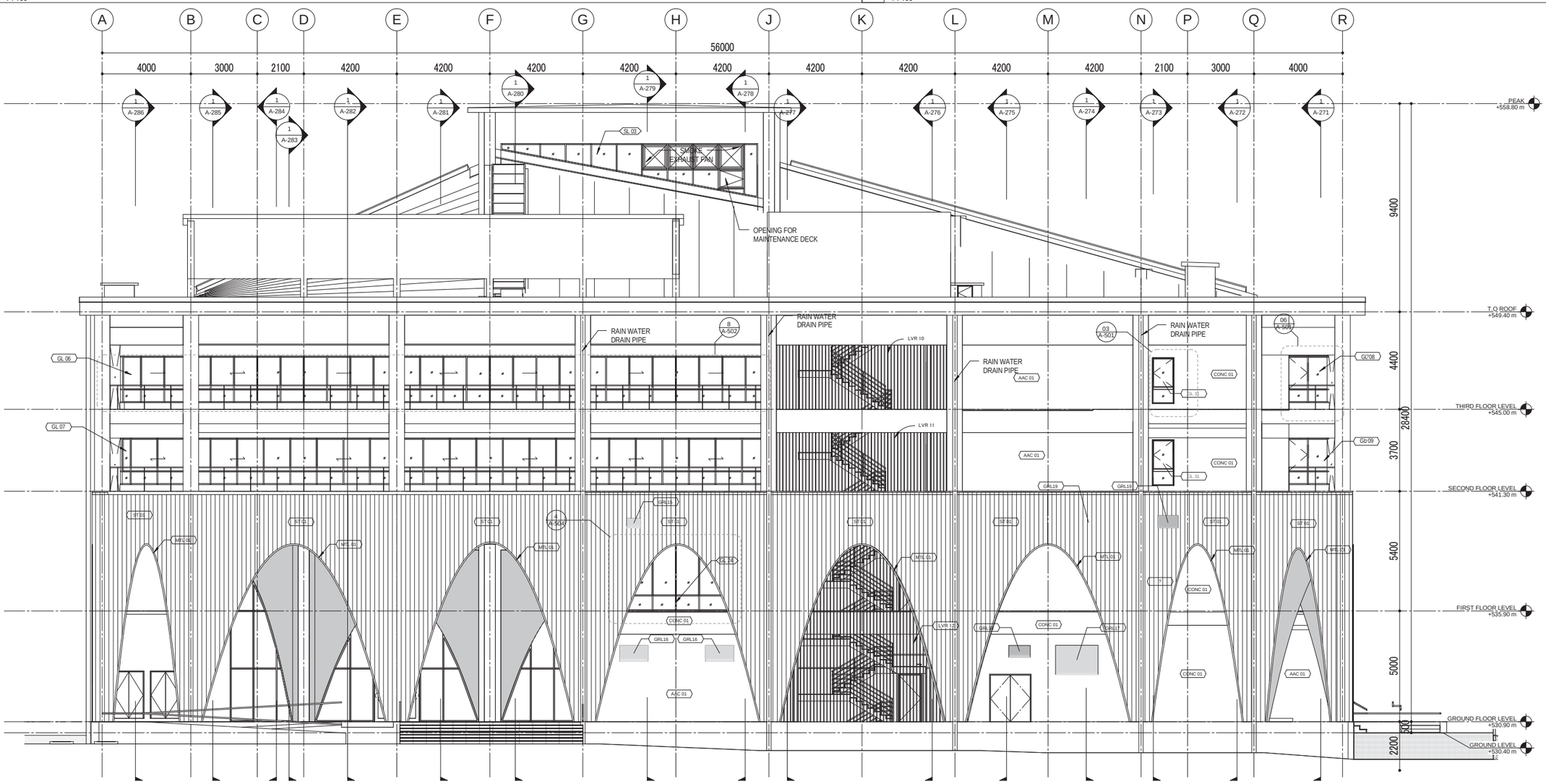
Date	Scale	Drawn	Checked
2014/10/31	1 : 100	NSI	--



2 ELEVATION EAST 2 - EAST ENTRANCE
1 : 100



3 ELEVATION NORTH - EAST ENTRANCE
1 : 100



1 ELEVATION EAST 1 - BACK ENTRANCE
1 : 100

INDIAN INSTITUTE OF TECHNOLOGY HYDERABAD

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SIGN. SEAL.

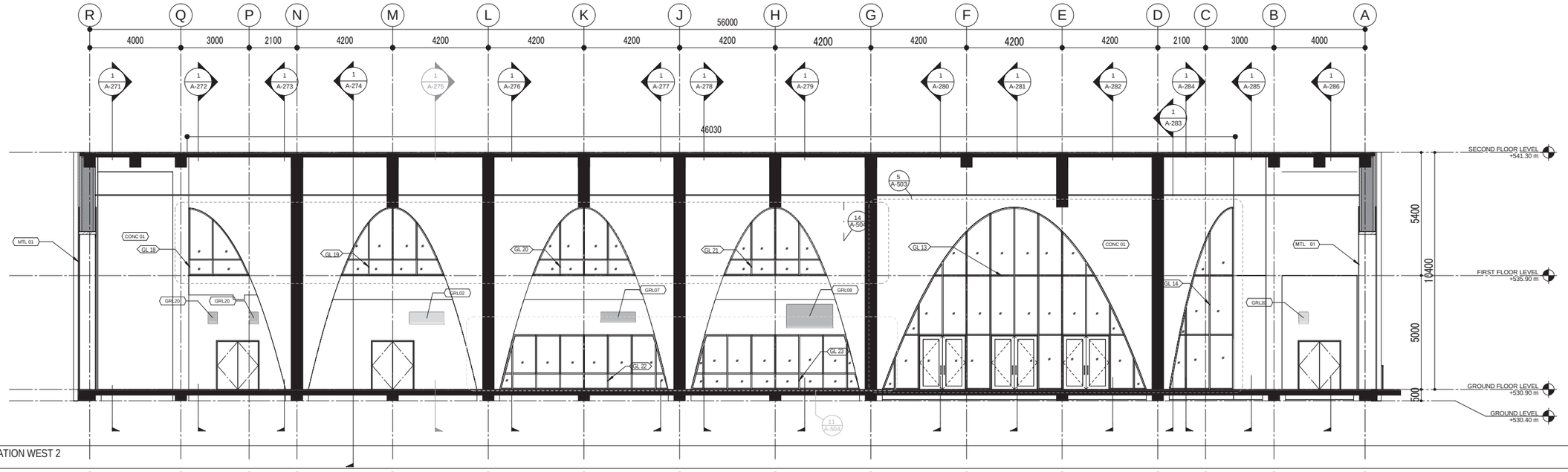
DESIGN DEVELOPMENT

Project Name
KNOWLEDGE CENTER AT CAMPUS OF IIT HYDERABAD

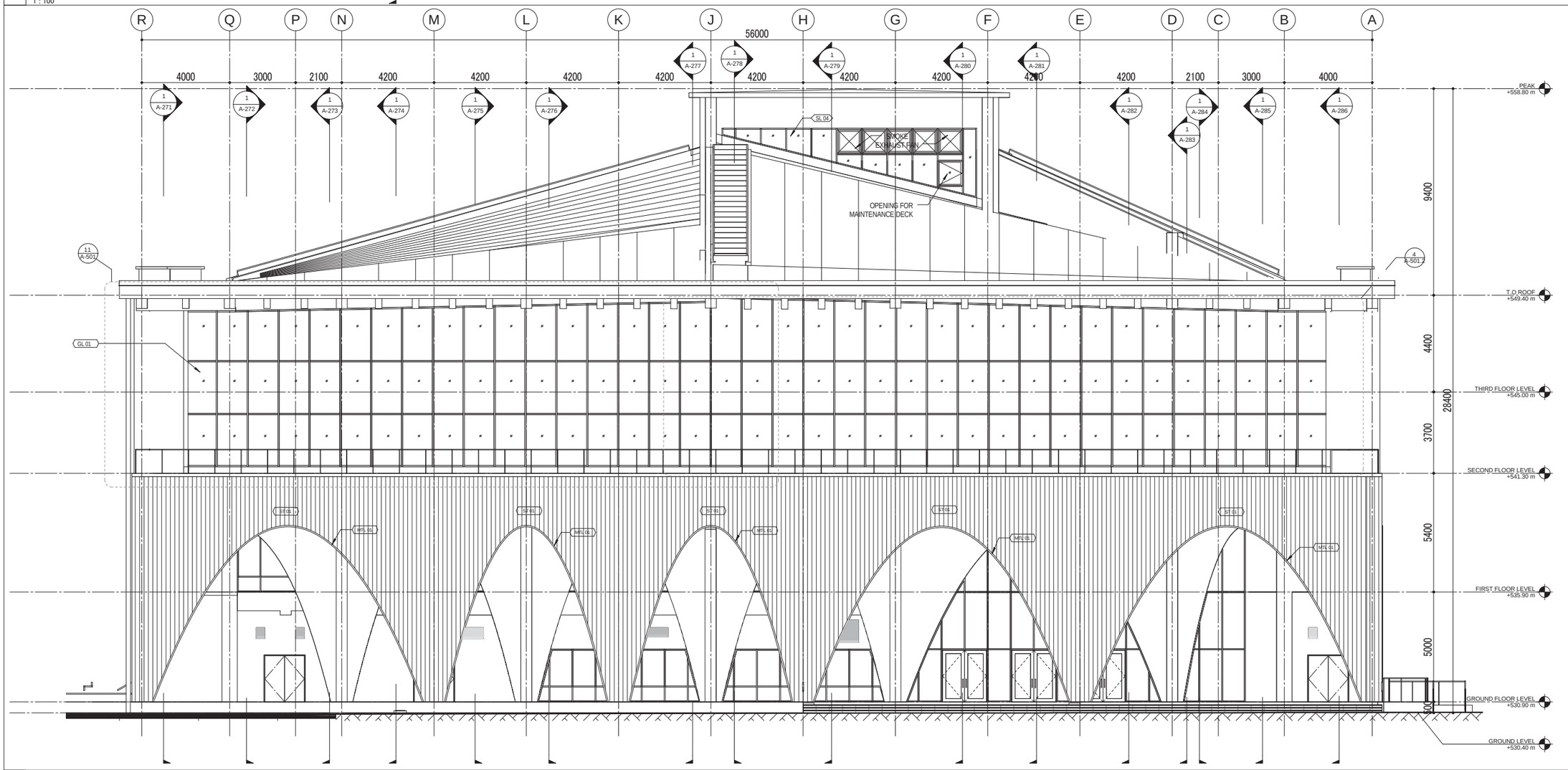
Sheet Title
BUILDING ELEVATION EAST

Sheet Number
KNC- A-203

Date	Scale	Drawn	Checked
2014/10/31	1 : 100	NSI	--



2 ELEVATION WEST 2
1 : 100



1 ELEVATION WEST 1
1 : 100

INDIAN INSTITUTE OF TECHNOLOGY HYDERABAD

KNOWLEDGE CENTER

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Bhosale Nagar, Pune - 411 020, (India)

No.	Date	Issue
07	31 OCT 2014	ISSUED FOR DD 100%
06	08 SEP 2014	ISSUED FOR DD 90%
05	03 AUG 2014	ISSUED FOR DD 70%
04	04 JUL 2014	ISSUED FOR DD 50%
03	17 JUN 2014	ISSUED FOR COST ESTIMATION
02	31 MAY 2014	ISSUED FOR DD 30%
01	31 MAR 2014	ISSUED FOR SD

GENERAL NOTES

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NOT FOR CONSTRUCTION

SIGN. SEAL.

DESIGN DEVELOPMENT

Project Name

KNOWLEDGE CENTER
AT CAMPUS OF
IIT HYDERABAD

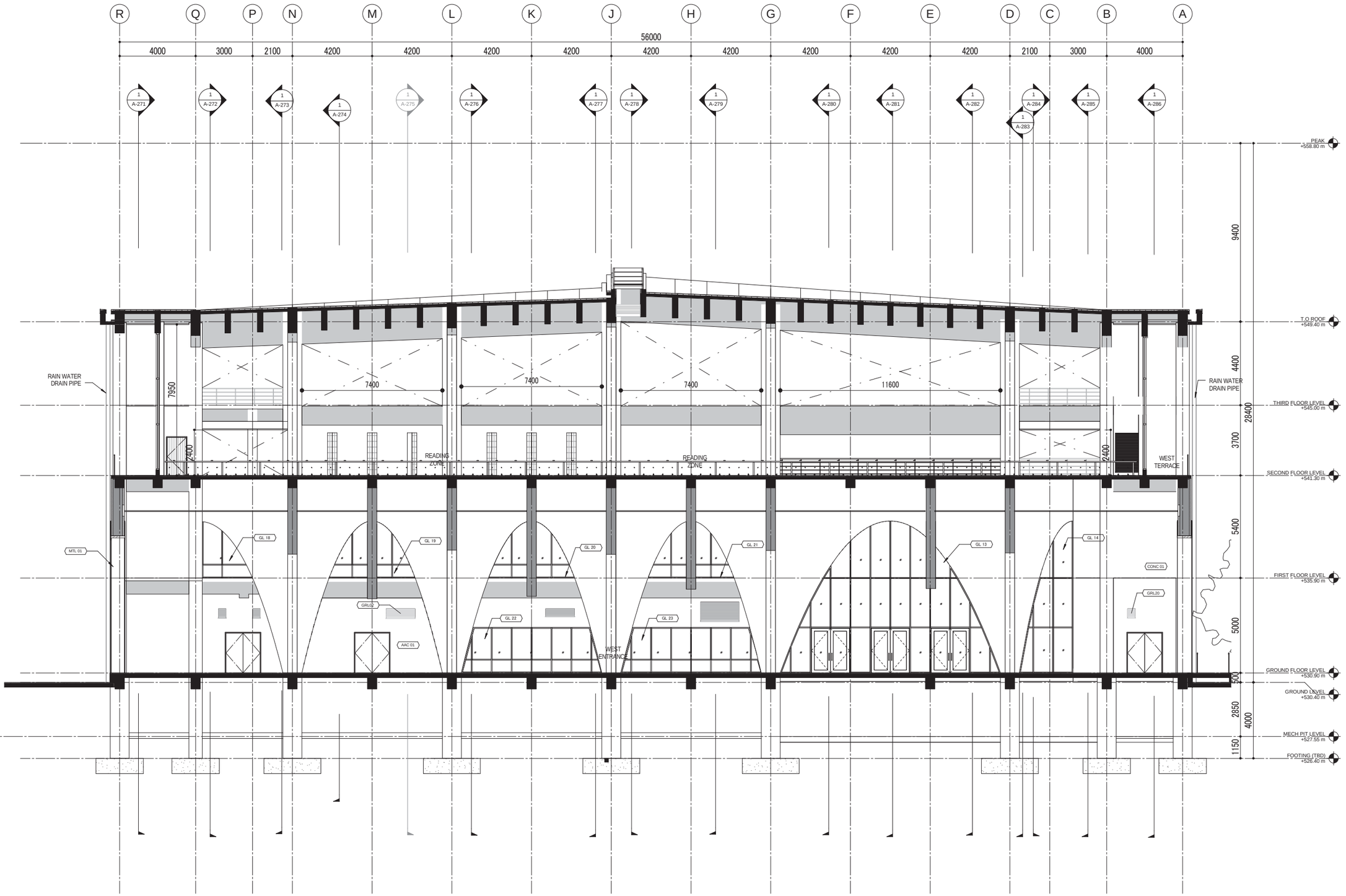
Sheet Title

BUILDING ELEVATION WEST

Sheet Number

KNC- A-204

Date	Scale	Drawn	Checked
2014/10/31	1 : 100	NSI	--



1 SECTION NORTH AND SOUTH 01
1 : 100

INDIAN INSTITUTE OF TECHNOLOGY HYDERABAD

KNOWLEDGE CENTER

THE UNIVERSITY OF TOKYO
IITH CAMPUS DESIGN STUDIO
Faculty of Engineering Building1,Rm #331
7-3-1 Hongo,Bunkyo-Ku,Tokyo 113-8656,JAPAN

Architect/Engineer
NIHON SEKKEI INTERNATIONAL INC.
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APL DESIGN WORKSHIP INC.
4-2-1 Yushima,Bunkyo-Ku
Tokyo 113-0034 JAPAN

Architect Of Record
ASTUTE ENGINEERING SERVICES PVT. LTD.
9 & 10, Symphony C, Range Hills,
Bhosale Nagar, Pune - 411 020, (India)

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NOT FOR CONSTRUCTION

SIGN. SEAL.

DESIGN DEVELOPMENT

Project Name

KNOWLEDGE CENTER
AT CAMPUS OF
IIT HYDERABAD

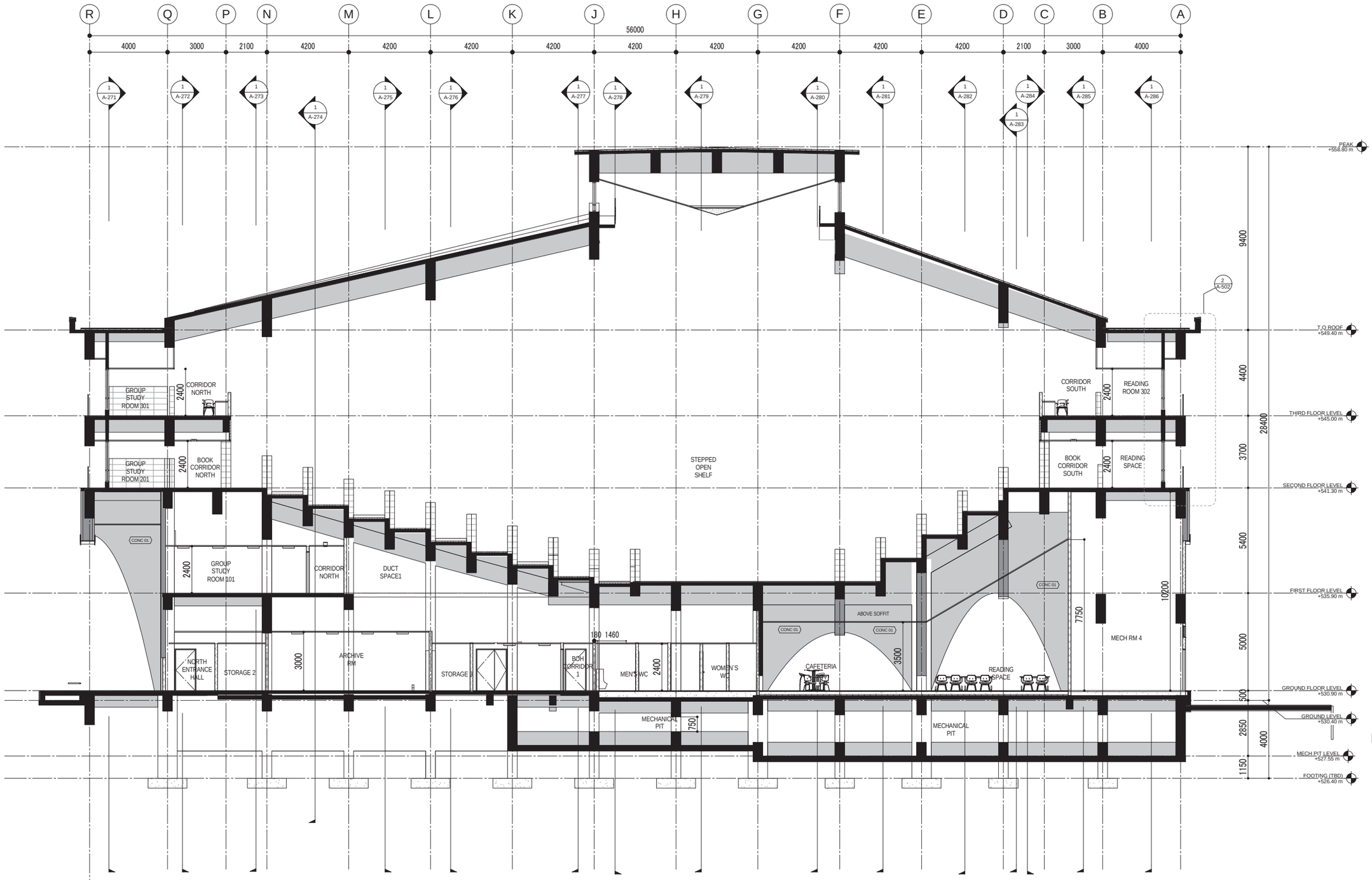
Sheet Title

BUILDING SECTION - NORTH AND SOUTH 01

Sheet Number

KNC- A-251

Date	Scale	Drawn	Checked
2014/10/31	1 : 100	NSI	Checker



1 SECTION NORTH AND SOUTH 06
1 : 100

INDIAN INSTITUTE OF TECHNOLOGY HYDERABAD

KNOWLEDGE CENTER

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ASTUTE ENGINEERING SERVICES PVT. LTD.
9 & 10, Symphony C, Range Hills,
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SIGN. SEAL.

DESIGN DEVELOPMENT

Project Name

KNOWLEDGE CENTER
AT CAMPUS OF
IIT HYDERABAD

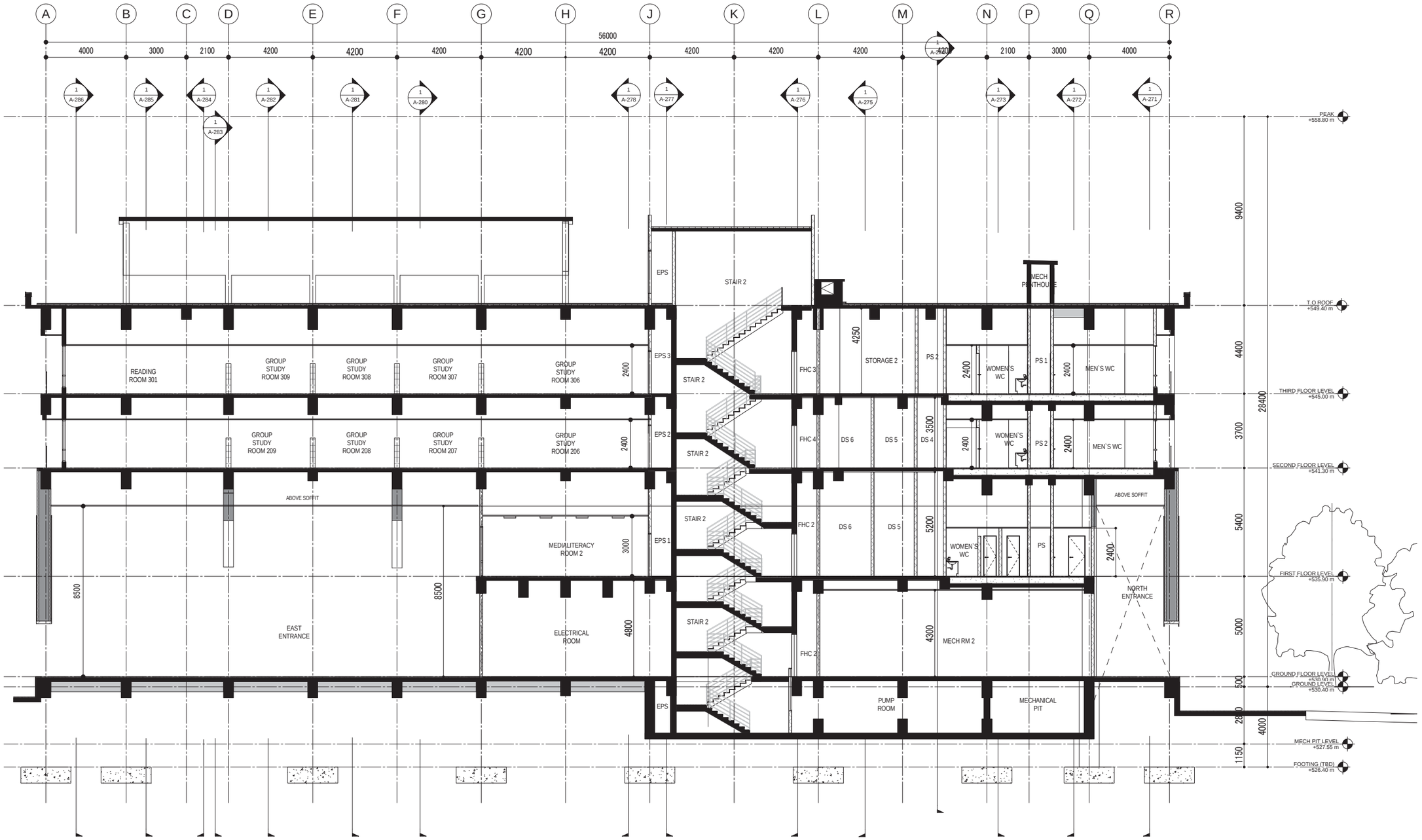
Sheet Title

BUILDING SECTION - NORTH AND SOUTH 06

Sheet Number

KNC- A-256

Date	Scale	Drawn	Checked
2014/10/31	1 : 100	NSI	Checker



1 SECTION NORTH AND SOUTH 13
1 : 100

INDIAN INSTITUTE OF TECHNOLOGY HYDERABAD

KNOWLEDGE CENTER

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9 & 10, Symphony C, Range Hills,
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SIGN. SEAL.

DESIGN DEVELOPMENT

Project Name

KNOWLEDGE CENTER AT CAMPUS OF IIT HYDERABAD

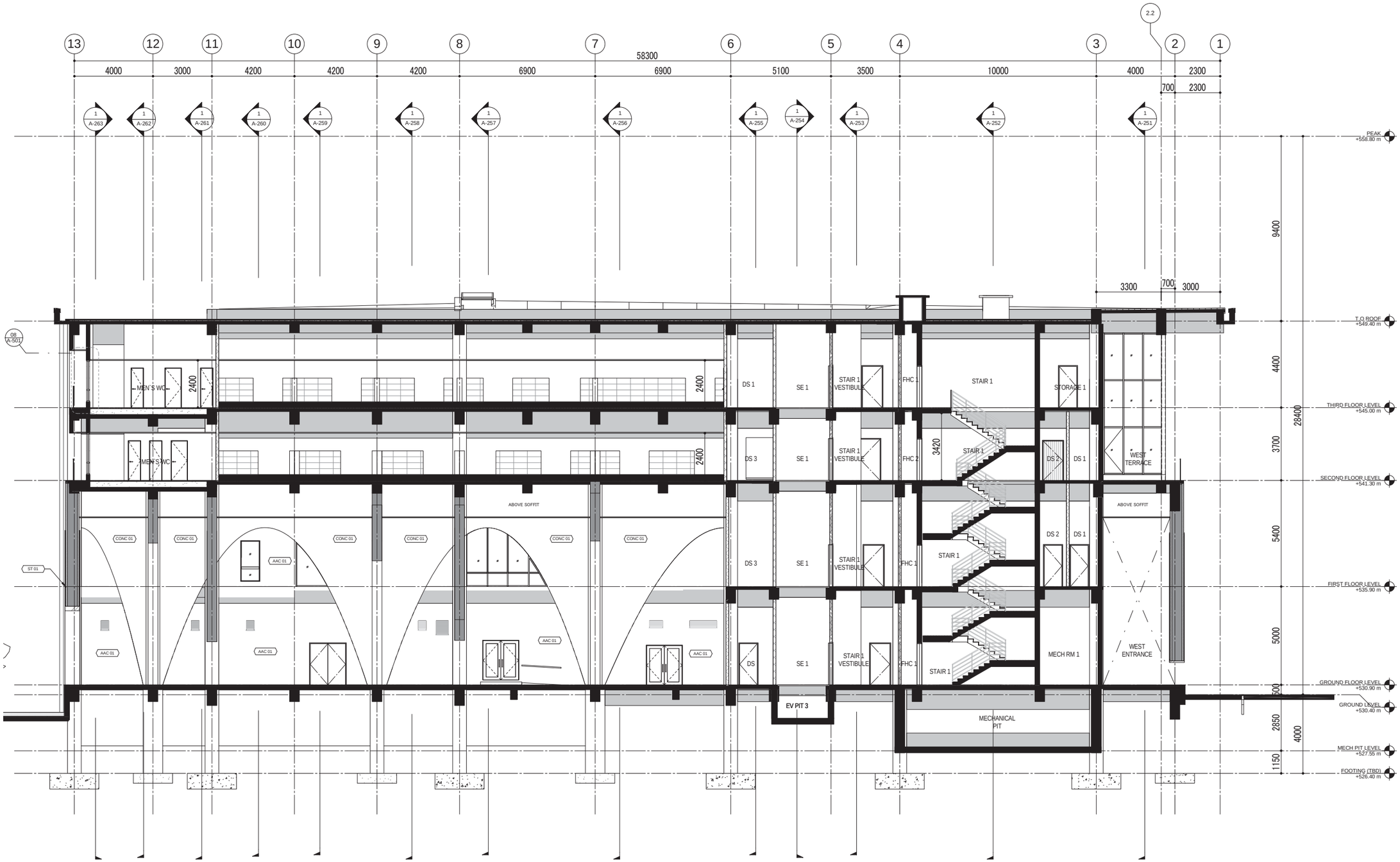
Sheet Title

BUILDING SECTION - NORTH AND SOUTH 13

Sheet Number

KNC- A-263

Date	Scale	Drawn	Checked
2014/10/31	1 : 100	NSI	Checker



1 SECTION EAST AND WEST 01
1 : 100

INDIAN INSTITUTE OF TECHNOLOGY HYDERABAD

KNOWLEDGE CENTER

THE UNIVERSITY OF TOKYO
IITH CAMPUS DESIGN STUDIO
Faculty of Engineering Building1,Rm #331
7-3-1 Hongo,Bunkyo-Ku,Tokyo 113-8656,JAPAN

Architect/Engineer
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9 & 10, Symphony C, Range Hills,
Bhosale Nagar, Pune - 411 020, (India)

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NOT FOR CONSTRUCTION

SIGN. SEAL.

DESIGN DEVELOPMENT

Project Name

KNOWLEDGE CENTER
AT CAMPUS OF
IIT HYDERABAD

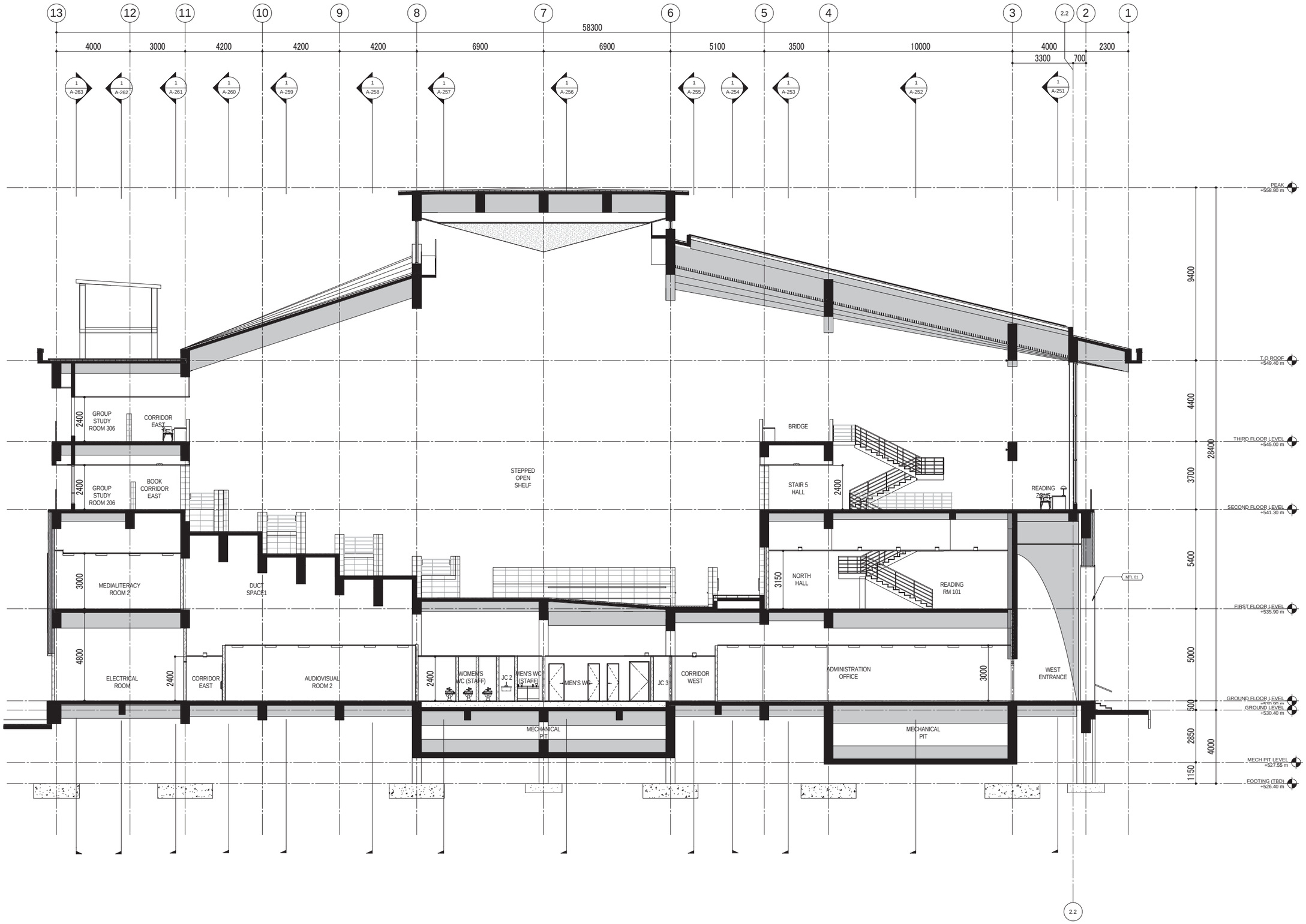
Sheet Title

BUILDING SECTION - EAST AND WEST 01

Sheet Number

KNC- A-271

Date	Scale	Drawn	Checked
2014/10/31	1 : 100	NSI	Checker



1 SECTION EAST AND WEST 08
1 : 100

INDIAN INSTITUTE OF TECHNOLOGY HYDERABAD

KNOWLEDGE CENTER

THE UNIVERSITY OF TOKYO
IITH CAMPUS DESIGN STUDIO
Faculty of Engineering Building1,Rm #331
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NOT FOR CONSTRUCTION

SIGN. SEAL.

DESIGN DEVELOPMENT

Project Name

KNOWLEDGE CENTER AT CAMPUS OF IIT HYDERABAD

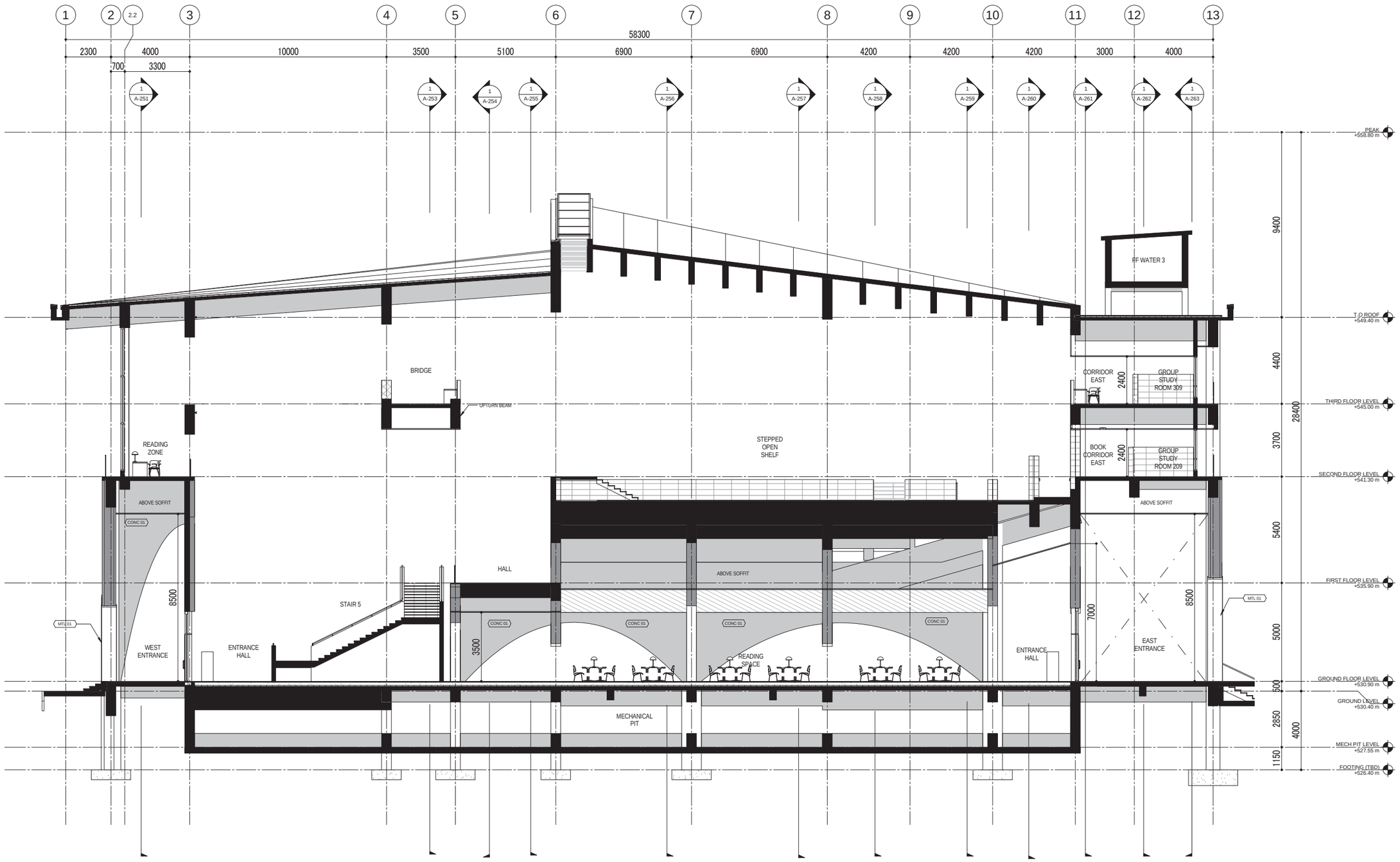
Sheet Title

BUILDING SECTION - EAST AND WEST 08

Sheet Number

KNC- A-278

Date	Scale	Drawn	Checked
2014/10/31	1 : 100	NSI	Checker



1 SECTION EAST AND WEST 12
1 : 100

INDIAN INSTITUTE OF TECHNOLOGY HYDERABAD

KNOWLEDGE CENTER

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NOT FOR CONSTRUCTION

SIGN. SEAL.

DESIGN DEVELOPMENT

Project Name
KNOWLEDGE CENTER AT CAMPUS OF IIT HYDERABAD

Sheet Title
BUILDING SECTION - EAST AND WEST 12

Sheet Number
KNC- A-282

Date	Scale	Drawn	Checked
2014/10/31	1 : 100	NSI	Checker

RESEARCH CENTRE COMPLEX
AT INDIAN INSTITUTE OF TECHNOLOGY HYDERABAD

ARCHITECTURE

INDIAN INSTITUTE OF TECHNOLOGY
HYDERABAD

CONCEPT DESIGN

THE UNIVERSITY OF TOKYO

IITH CAMPUS DESIGN STUDIO
Faculty of Engineering Building 1, Rm#331
7-3-1 Hongo, Bunkyo-ku, Tokyo 113-8656, JAPAN

ARCHITECT/ENGINEER

NIHON SEKKEI

NIHON SEKKEI INTERNATIONAL INC.
NIHON SEKKEI INC.
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Tokyo 163-1329 JAPAN

ASSOCIATE ARCHITECT

Architecture Planning Landscape design workshop

APL DESIGN WORKSHOP INC.
4-2-1 Yushima, Bunkyo-ku
Tokyo 113-0034 JAPAN

ARCHITECT Of RECORD

ASTUTE™
ENGINEERING SERVICES PVT. LTD.
9 & 10, Symphony C, Range Hills,
Bhosale Nagar, Pune - 411 020. (India)

LOCAL STRUCTURAL CONSULTANTS:

JW CONSULTANTS LLP

PUNE OFFICE
SAI CHAMBERS, 16, PUNE-MUMBAI ROAD,
WAKDEWADI, PUNE. 411003

MUMBAI OFFICE
314, 3RD FLOOR, PRABHADEVI INDUSTRIAL
ESTATE,VEER SAVARKAR MARG,
PRABHADEVI, MUMBAI-400025

HVAC CONSULTANTS:

R S Kulkami Fellow & Life Member - ASHRAE
HVACR Consultant
Office No. 512 + 513, Siddharth Towers,
Sangam Press Road, Kothrud, Pune 411 029
Tel. No. : 020 2544 60 14 / 2546 59 20 / 3252 20 69
FAX : 020 - 2543 6684 Email : rskulkami@rskhvacr.com

PLUMBING & FIRE FIGHTING CONSULTANTS :

M/s Ace Consultants
Omkar Building, Flat No. 2,
P.O. No. 20, S.No 117/118,
Madhav Baug Co. Op. Hsg. Society,
Near Shashikant Sutar Bungalow,
Shivtirth Nagar,PUNE - 411 038

LOCAL ELECTRICAL CONSULTANTS :

abhiyanta ELECTRICAL CONSULTANTS & ENGINEERS
AN ISO 9001:2005 COMPANY
www.abhiyantaconsultants.com

Shree Swami Krupa, Plot No. 6,
Plot No. 6, Neelkamal Housing Soc.
Karvenagar, Pune - 411 052.
Telefax: +91 20 25462173 / 25410891

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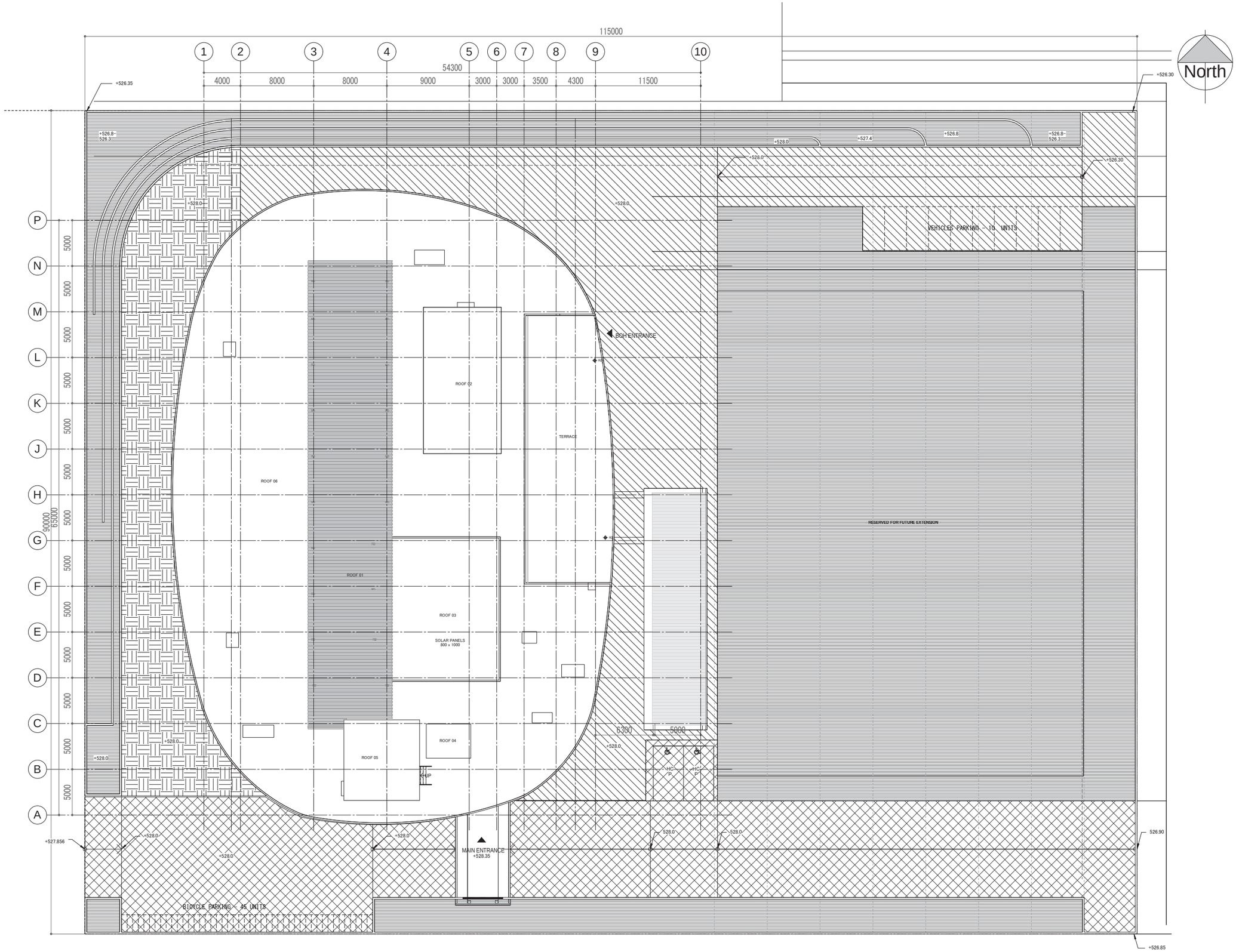
OCTOBER 31ST, 2014



1 SITE PLAN
1 : 200

INDIAN INSTITUTE OF TECHNOLOGY HYDERABAD

RESEARCH CENTER COMPLEX

THE UNIVERSITY OF TOKYO
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07	31 OCT 2014	ISSUED FOR DESIGN DEVELOPMENT100%
06	8 SEP 2014	ISSUED FOR DESIGN DEVELOPMENT 90%
05	28 JUL 2014	ISSUED FOR DESIGN DEVELOPMENT 70%
04	4 JUL 2014	ISSUED FOR DESIGN DEVELOPMENT 50%
03	17 JUN 2014	ISSUED FOR COST ESTIMATION
02	31 MAY 2014	ISSUED FOR DD 30%
01	31 MAR 2014	ISSUED FOR SD

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SIGN. SEAL.

DESIGN DEVELOPMENT DRAWING

Project Name

RESEARCH CENTER COMPLEX AT CAMPUS OF IIT HYDERABAD

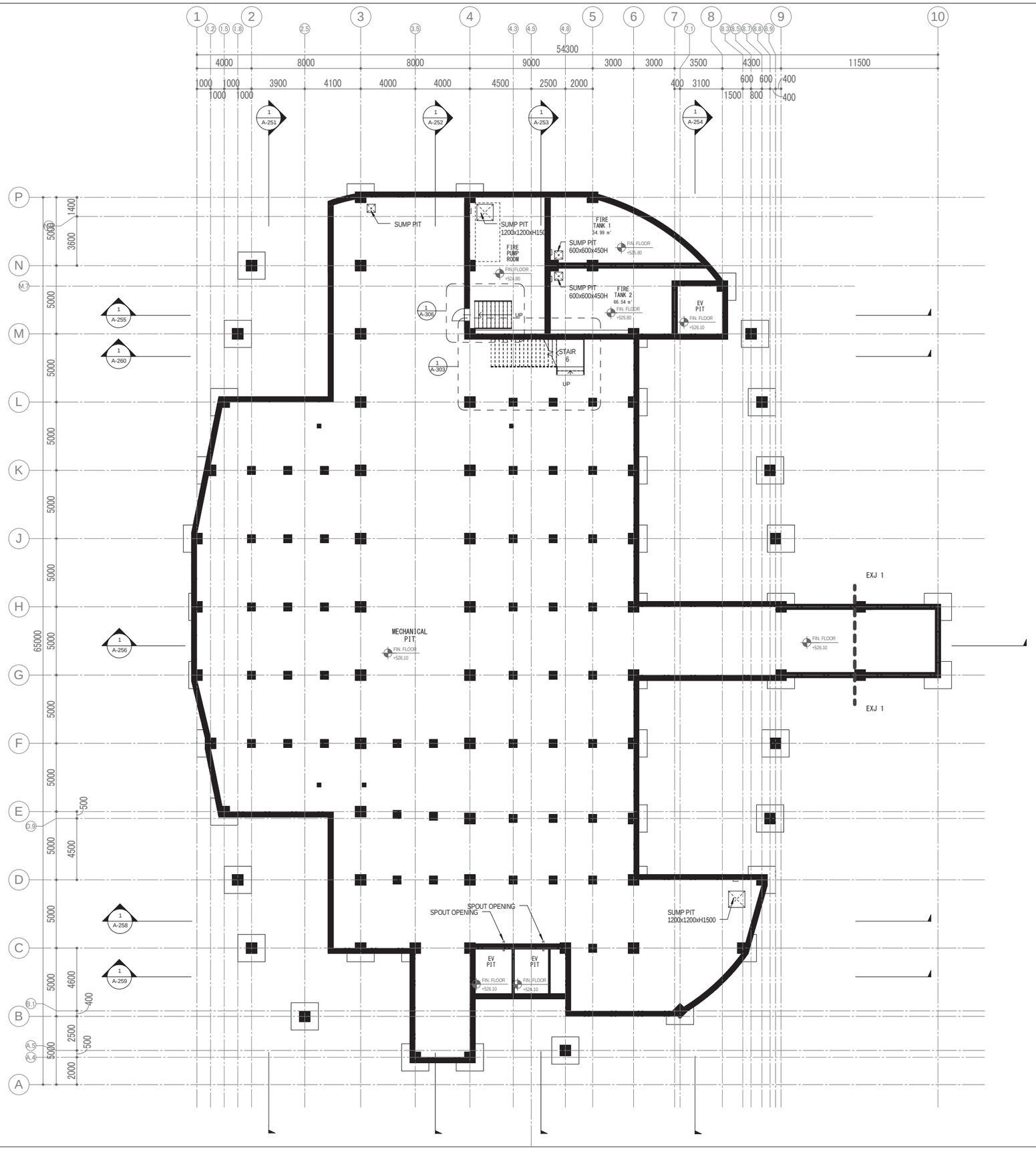
Sheet Title

SITE PLAN

Sheet Number

RCC-A-052

Date	Scale	Drawn	Checked
2014/10/31	As indicated	--	Checker



1 PIT LEVEL PLAN
1 : 150

INDIAN INSTITUTE OF TECHNOLOGY HYDERABAD

RESEARCH CENTER COMPLEX

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DESIGN DEVELOPMENT DRAWING

Project Name

RESEARCH CENTER COMPLEX AT CAMPUS OF IIT HYDERABAD

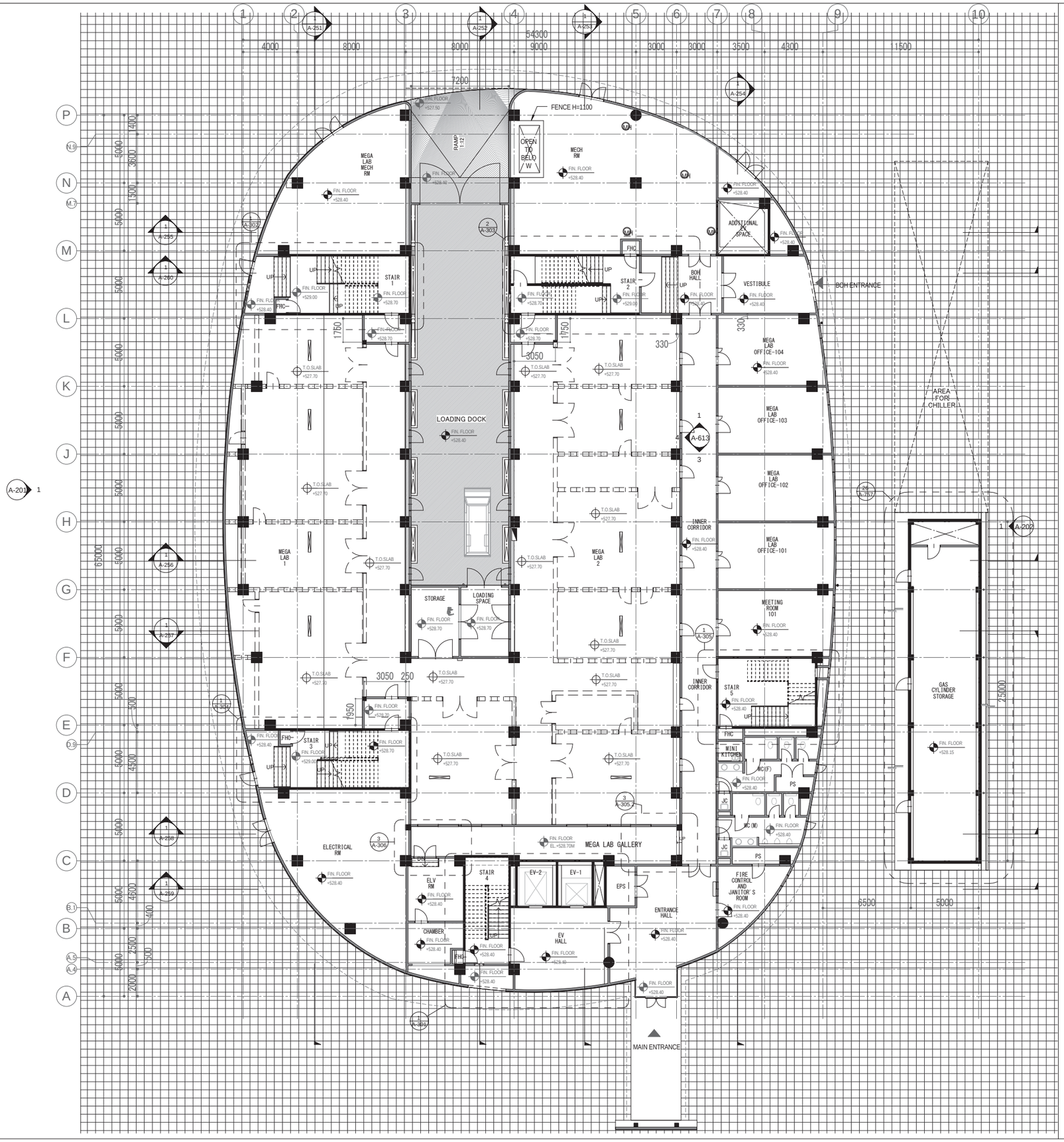
Sheet Title

PIT PLAN

Sheet Number

RCC-A-100

Date	Scale	Drawn	Checked
2014/10/31	1 : 150	--	--



1 GROUND FLOOR PLAN
1 : 150

INDIAN INSTITUTE OF TECHNOLOGY HYDERABAD

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DESIGN DEVELOPMENT DRAWING

Project Name

RESEARCH CENTER COMPLEX AT CAMPUS OF IIT HYDERABAD

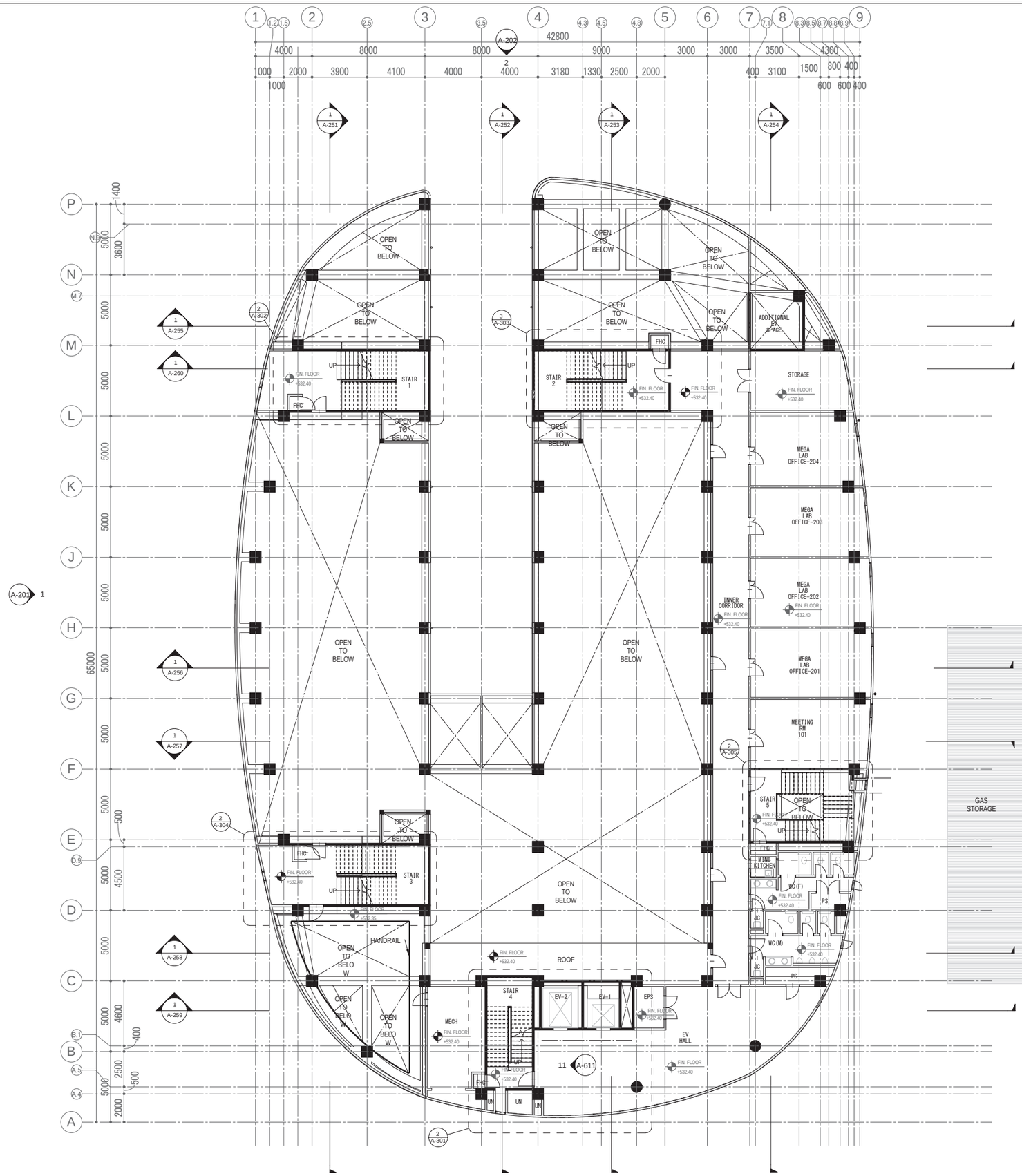
Sheet Title

GROUND FLOOR PLAN

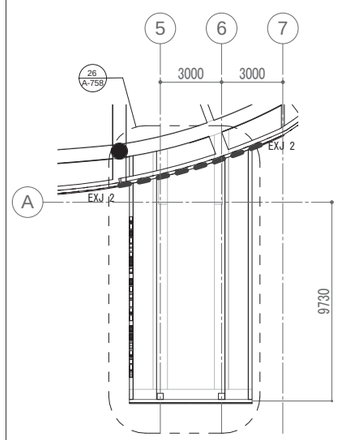
Sheet Number

RCC-A-101

Date	Scale	Drawn	Checked
2014/10/31	1 : 150	--	--



1 FRIST FLOOR PLAN
1 : 150



2 ENTRANCE CANOPY
1 : 150

INDIAN INSTITUTE OF TECHNOLOGY HYDERABAD

RESEARCH CENTER COMPLEX

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7-3-1 Hongo,Bunkyo-Ku,Tokyo 113-8656,JAPAN

Architect/Engineer
NIHON SEKKEI INTERNATIONAL INC.
NIHON SEKKEI INC.
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Tokyo 163-1329 JAPAN

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Tokyo 113-0034 JAPAN

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07	31 OCT 2014	ISSUED FOR DESIGN DEVELOPMENT100%
06	8 SEP 2014	ISSUED FOR DESIGN DEVELOPMENT 90%
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04	4 JUL 2014	ISSUED FOR DESIGN DEVELOPMENT 50%
03	17 JUN 2014	ISSUED FOR COST ESTIMATION
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01	31 MAR 2014	ISSUED FOR SD

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SIGN. SEAL.

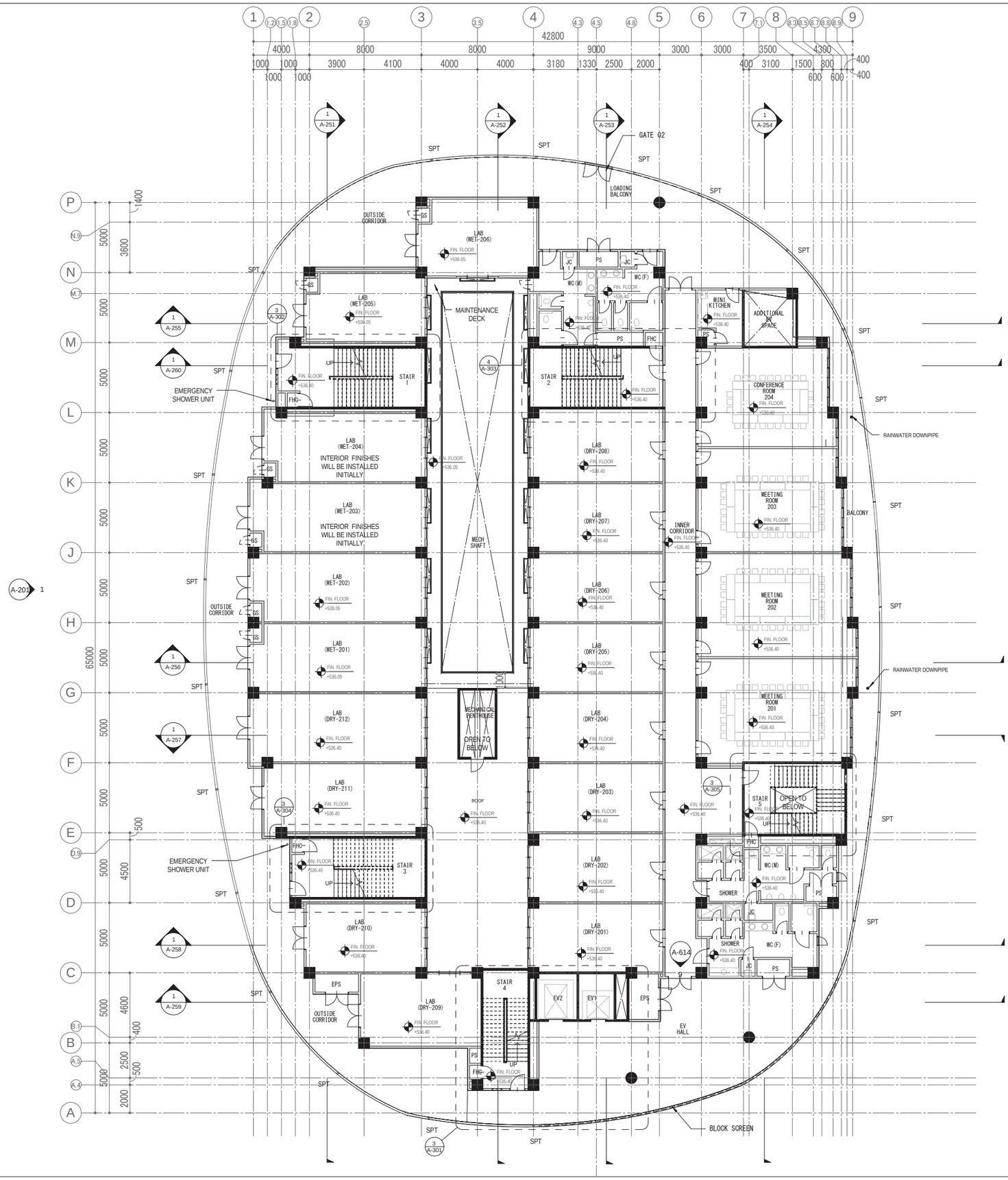
DESIGN DEVELOPMENT DRAWING

Project Name
RESEARCH CENTER COMPLEX AT CAMPUS OF IIT HYDERABAD

Sheet Title
FIRST FLOOR PLAN

Sheet Number
RCC-A-102

Date	Scale	Drawn	Checked
2014/10/31	1 : 150	--	--



1 SECOND FLOOR PLAN
1 : 150

INDIAN INSTITUTE OF TECHNOLOGY HYDERABAD

RESEARCH CENTER COMPLEX

THE UNIVERSITY OF TOKYO
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DESIGN DEVELOPMENT DRAWING

Project Name

RESEARCH CENTER COMPLEX AT CAMPUS OF IIT HYDERABAD

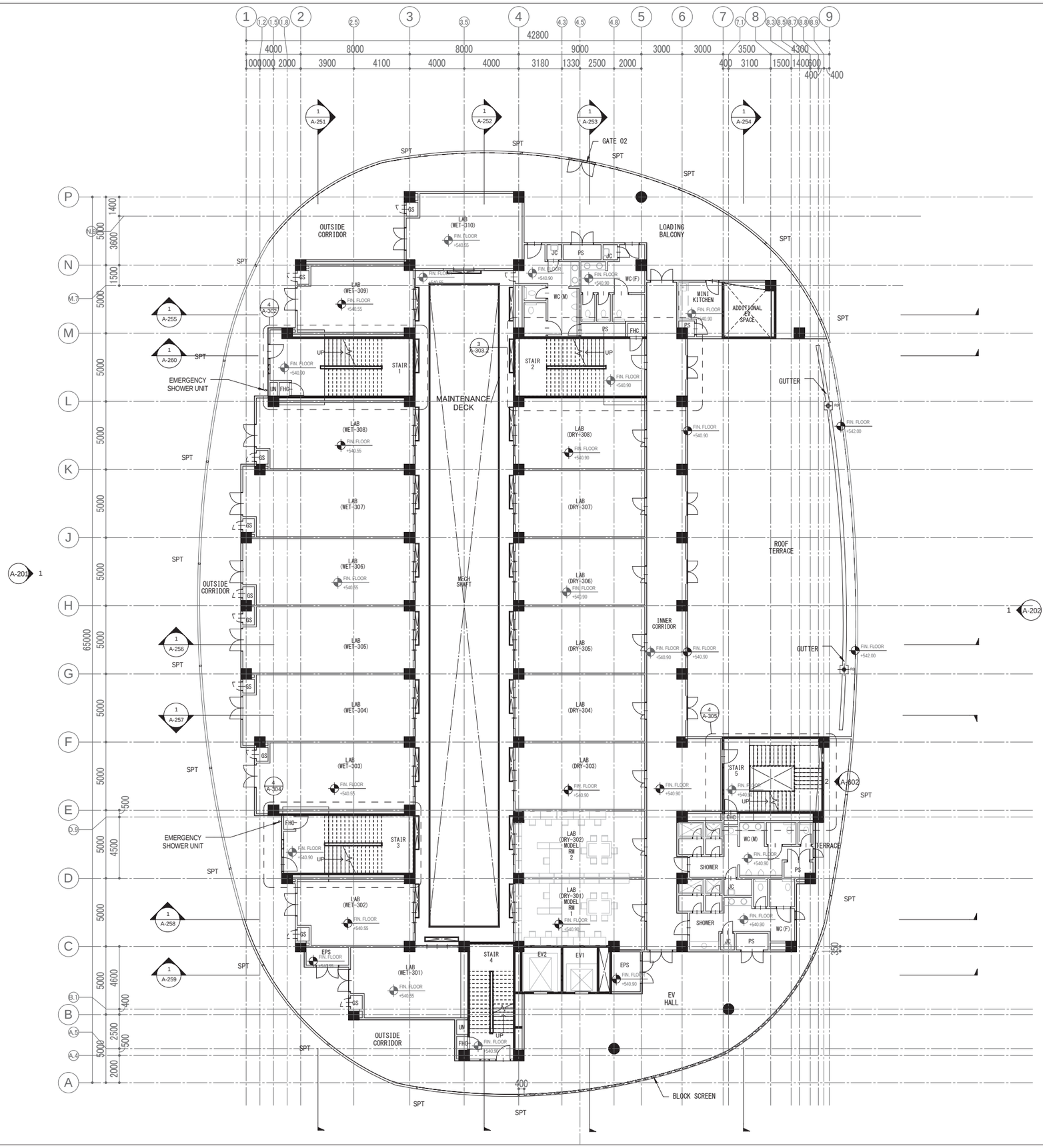
Sheet Title

SECOND FLOOR PLAN

Sheet Number

RCC-A-103

Date	Scale	Drawn	Checked
2014/10/31	1 : 150	--	--



1 THIRD FLOOR PLAN
1 : 150

INDIAN INSTITUTE OF TECHNOLOGY HYDERABAD

RESEARCH CENTER COMPLEX

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14.ALL STEEL EXPOSED OUTSIDE IS MADE OF GALVANIZED STEEL WITH PAINTING.
15. ALL ALUMINUM HAVE SECONDARY ELECTROLYTIC TREATMENT.

NOT FOR CONSTRUCTION

SIGN. SEAL.

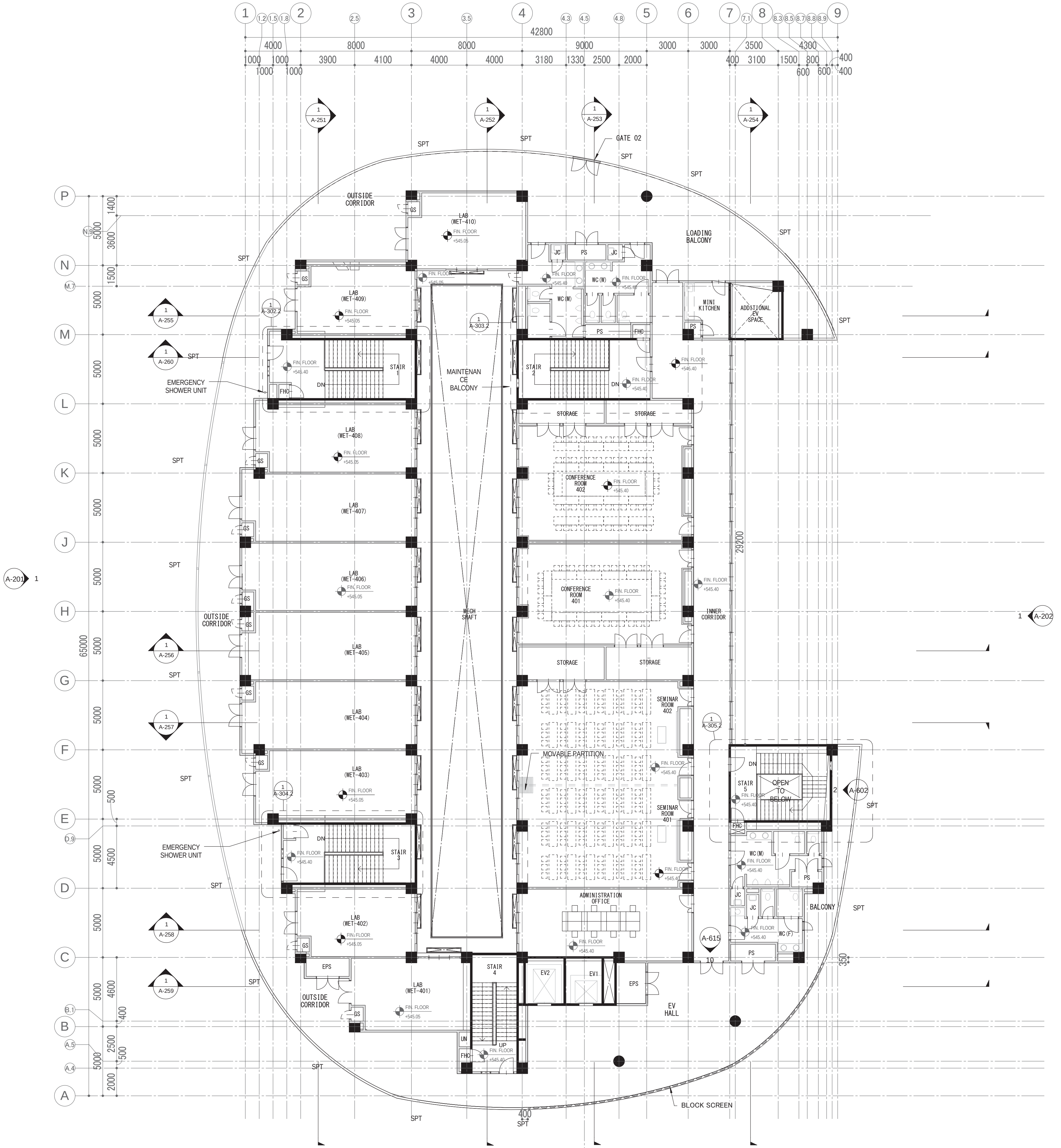
DESIGN DEVELOPMENT DRAWING

Project Name
RESEARCH CENTER COMPLEX AT CAMPUS OF IIT HYDERABAD

Sheet Title
THIRD FLOOR PLAN

Sheet Number
RCC-A-104

Date	Scale	Drawn	Checked
2014/10/31	1 : 150	--	--



1	FOURTH FLOOR PLAN 1 : 150

INDIAN INSTITUTE OF TECHNOLOGY HYDERABAD

RESEARCH CENTER COMPLEX

THE UNIVERSITY OF TOKYO
IITH CAMPUS DESIGN STUDIO
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NIHON SEKKEI INC.
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Tokyo 113-0034 JAPAN

Architect Of Record
ASTUTE ENGINEERING SERVICES PVT. LTD.
9 & 10, Symphony C, Range Hills,
Bhosale Nagar, Pune - 411 020, (India)

No.	Date	Issue
07	31 OCT 2014	ISSUED FOR DESIGN DEVELOPMENT100%
06	8 SEP 2014	ISSUED FOR DESIGN DEVELOPMENT 90%
05	28 JUL 2014	ISSUED FOR DESIGN DEVELOPMENT 70%
04	4 JUL 2014	ISSUED FOR DESIGN DEVELOPMENT 50%
03	17 JUN 2014	ISSUED FOR COST ESTIMATION
02	31 MAY 2014	ISSUED FOR DD 30%
01	31 MAR 2014	ISSUED FOR SD

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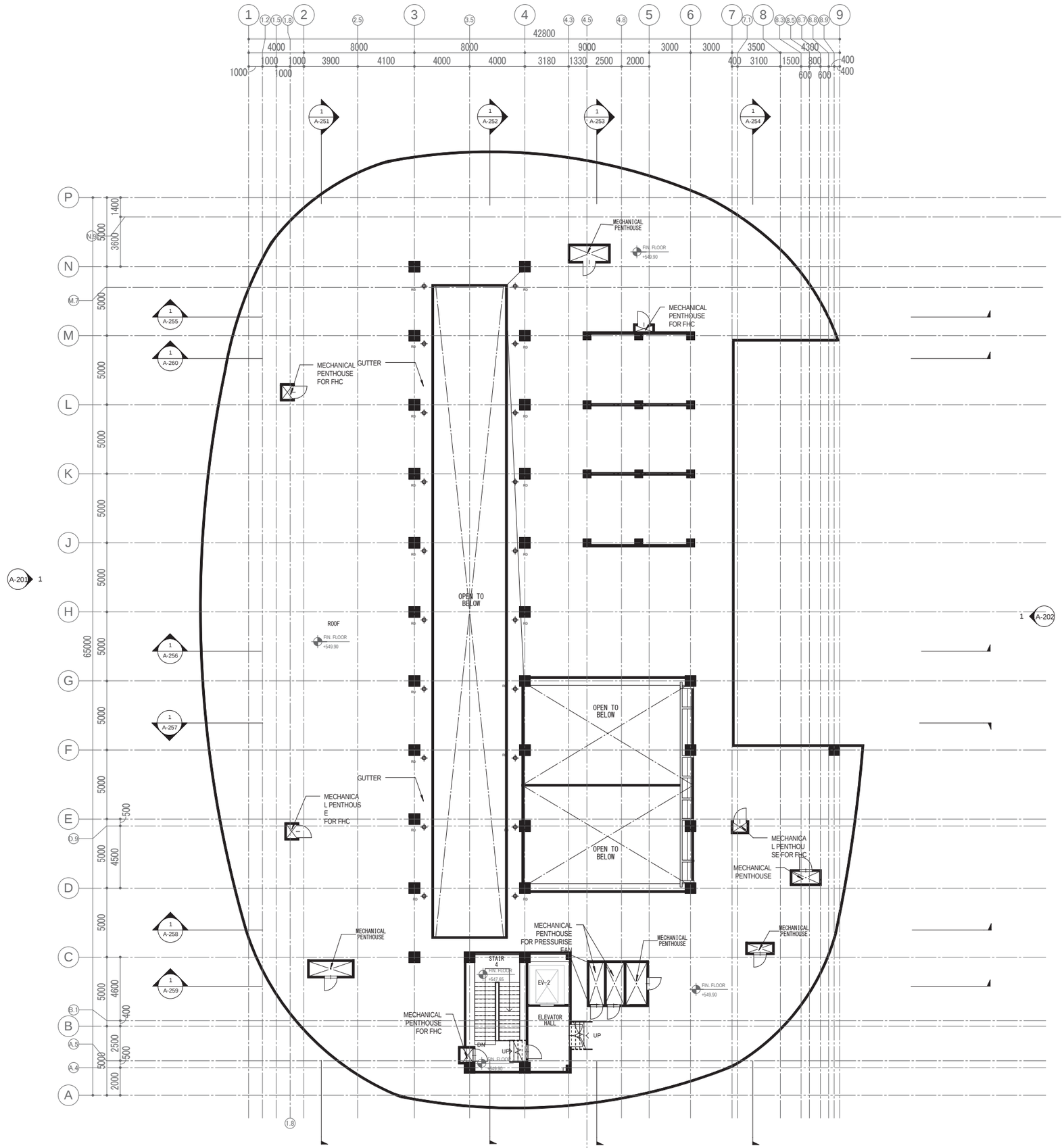
DESIGN DEVELOPMENT DRAWING

Project Name
RESEARCH CENTER COMPLEX AT CAMPUS OF IIT HYDERABAD

Sheet Title
FOURTH FLOOR PLAN

Sheet Number
RCC-A-105

Date	Scale	Drawn	Checked
2014/10/31	1 : 150	--	--



1 ROOF PLAN
1 : 150

INDIAN INSTITUTE OF TECHNOLOGY HYDERABAD

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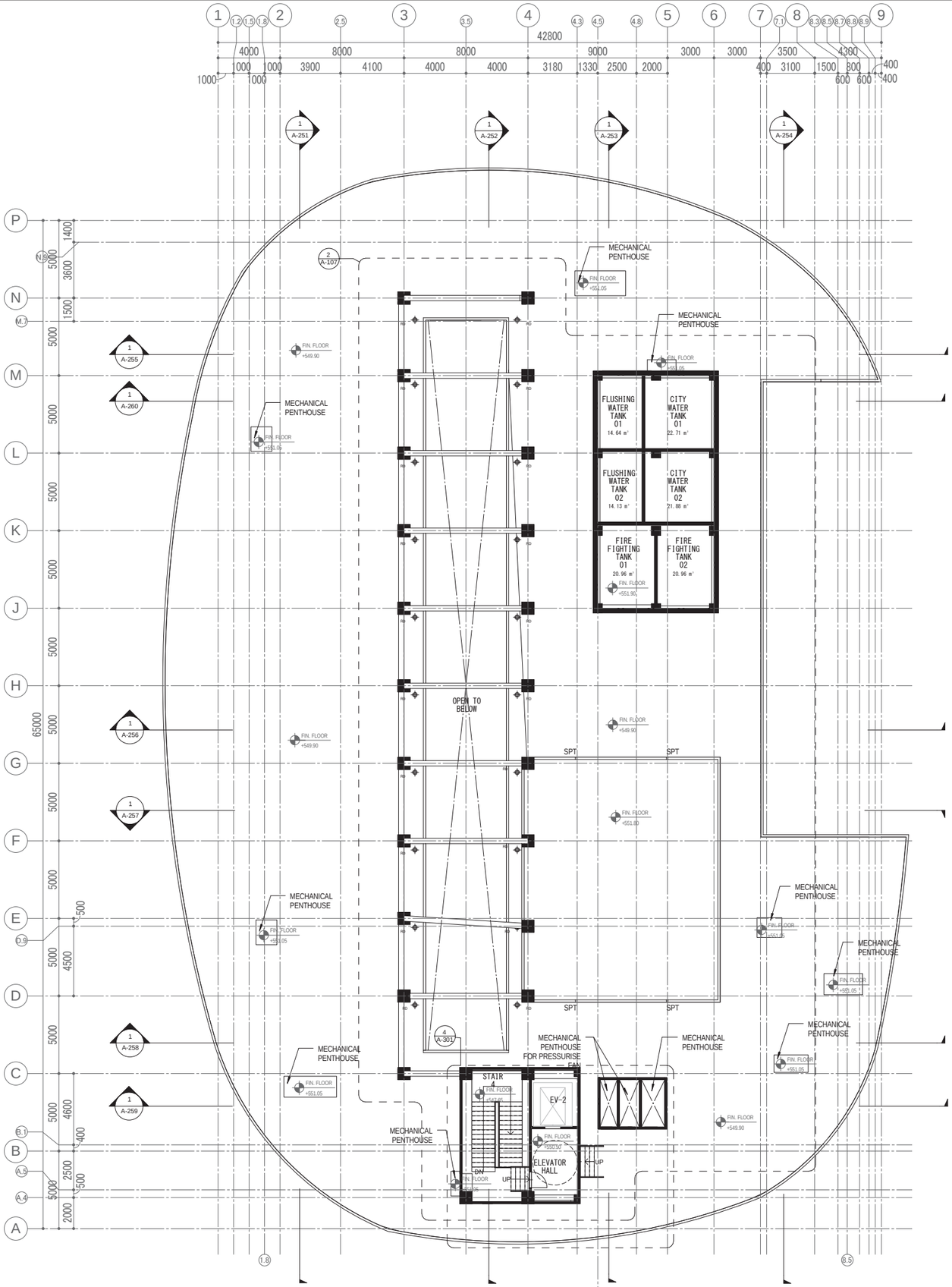
DESIGN DEVELOPMENT DRAWING

Project Name
RESEARCH CENTER COMPLEX AT CAMPUS OF IIT HYDERABAD

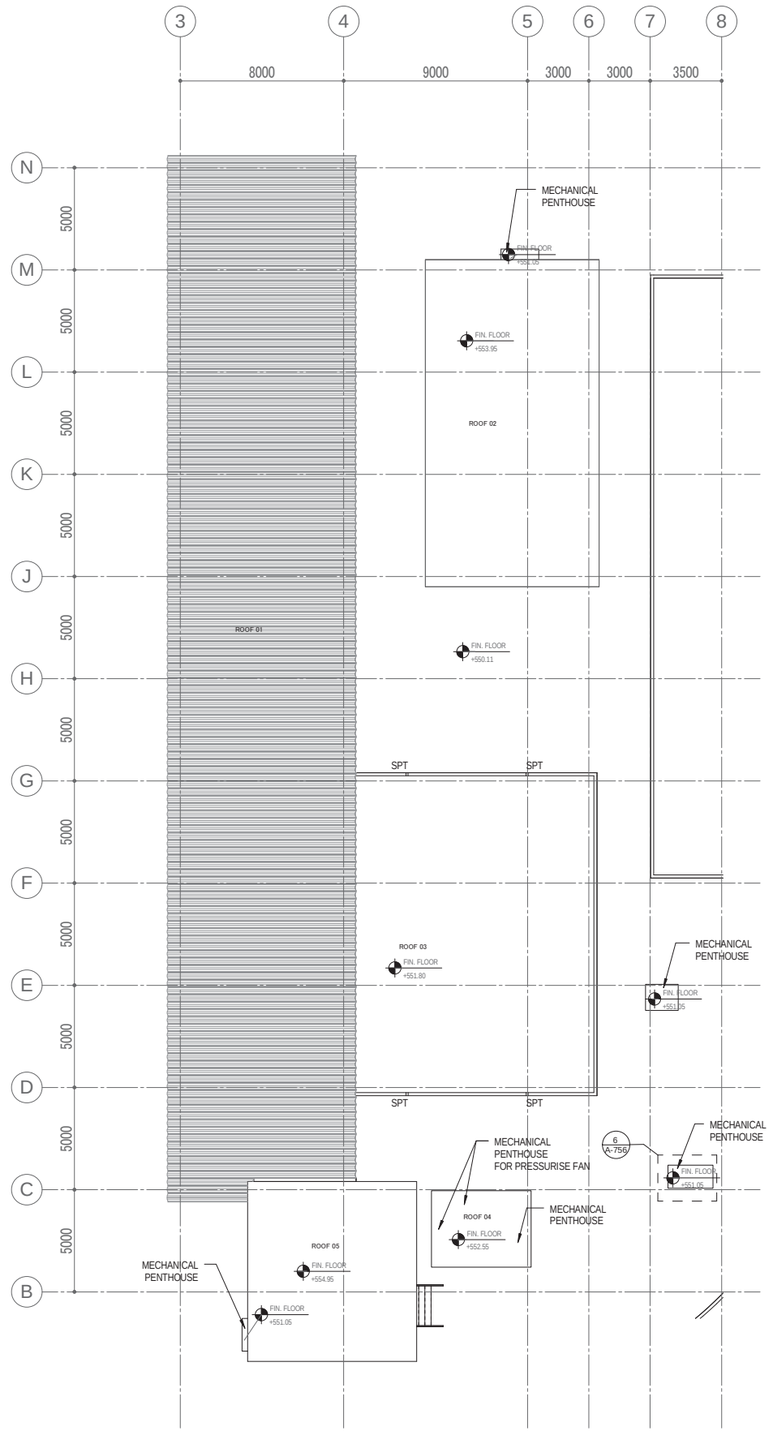
Sheet Title
ROOF PLAN

Sheet Number
RCC-A-106

Date	Scale	Drawn	Checked
2014/10/31	1 : 150	--	Checker



1 ROOF PLAN - RL+2500
1 : 150



2 ROOF PLAN - RL+ 4000
1 : 150

INDIAN INSTITUTE OF TECHNOLOGY HYDERABAD

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DESIGN DEVELOPMENT DRAWING

Project Name

RESEARCH CENTER COMPLEX AT CAMPUS OF IIT HYDERABAD

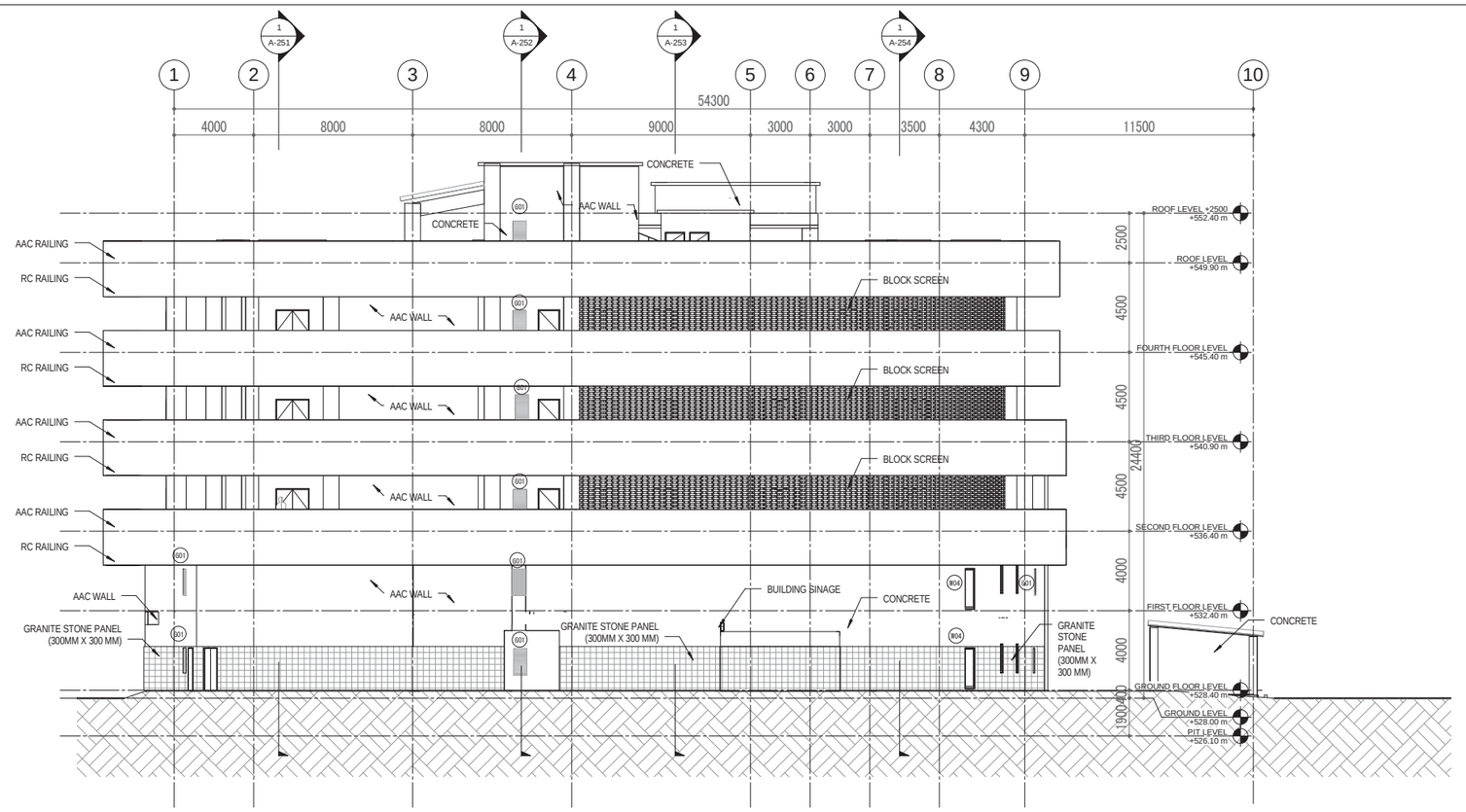
Sheet Title

ROOF PLAN - RL+2500 & +4000

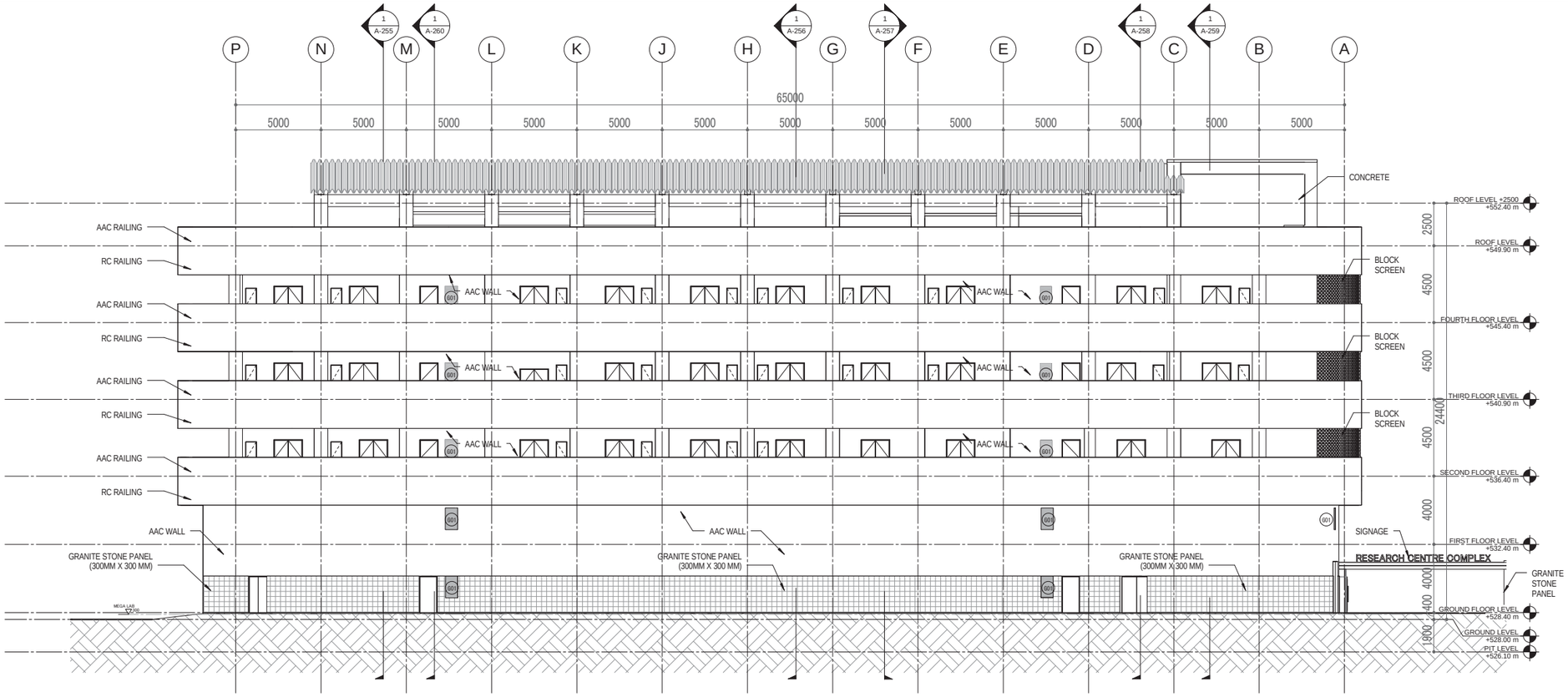
Sheet Number

RCC-A-107

Date	Scale	Drawn	Checked
2014/10/31	1 : 150	--	--



2 ELEVATION SOUTH
1 : 150



1 ELEVATION WEST
1 : 150

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SIGN. SEAL.

DESIGN DEVELOPMENT DRAWING

Project Name

RESEARCH CENTER COMPLEX AT CAMPUS OF IIT HYDERABAD

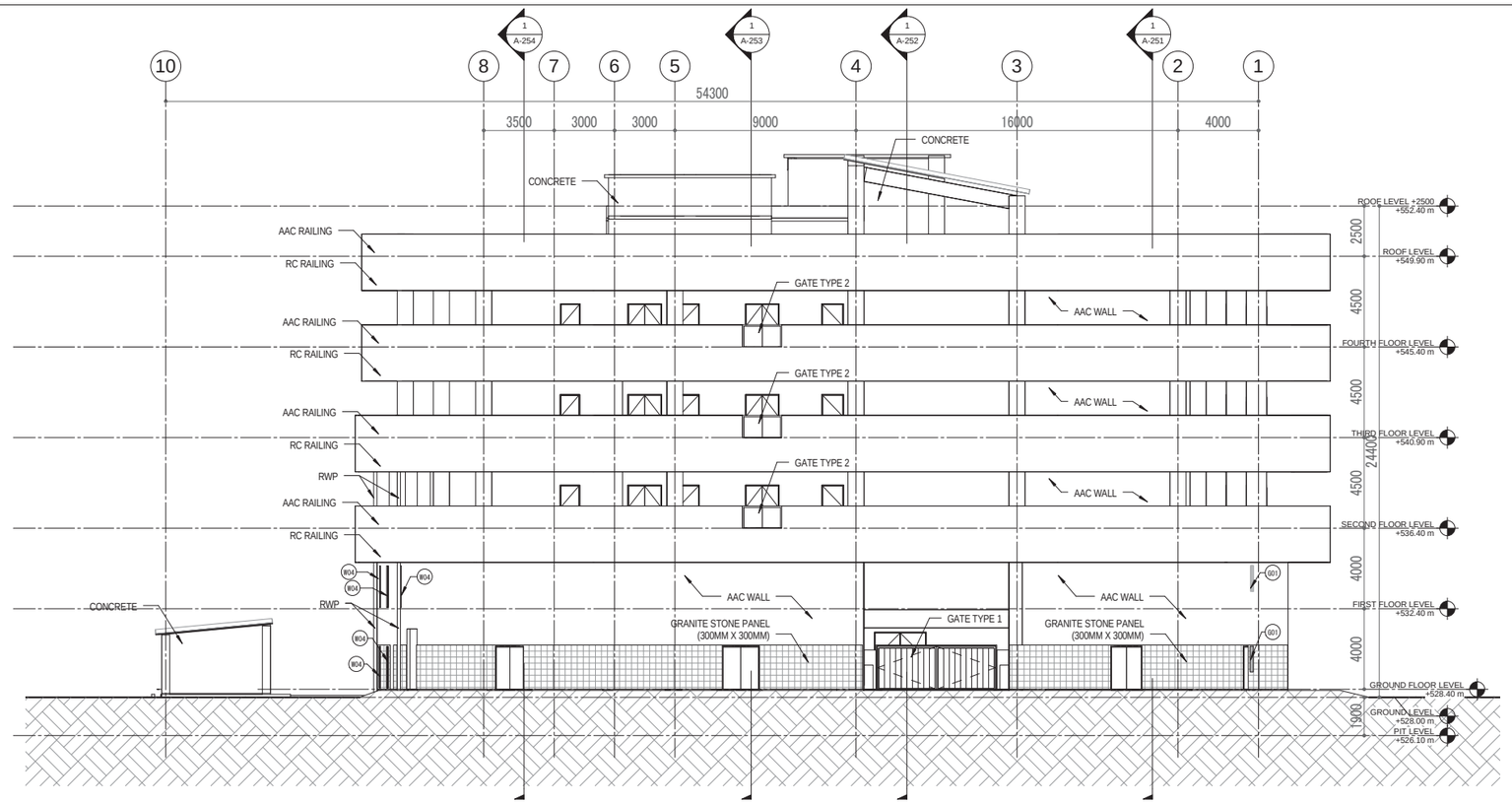
Sheet Title

ELEVATION

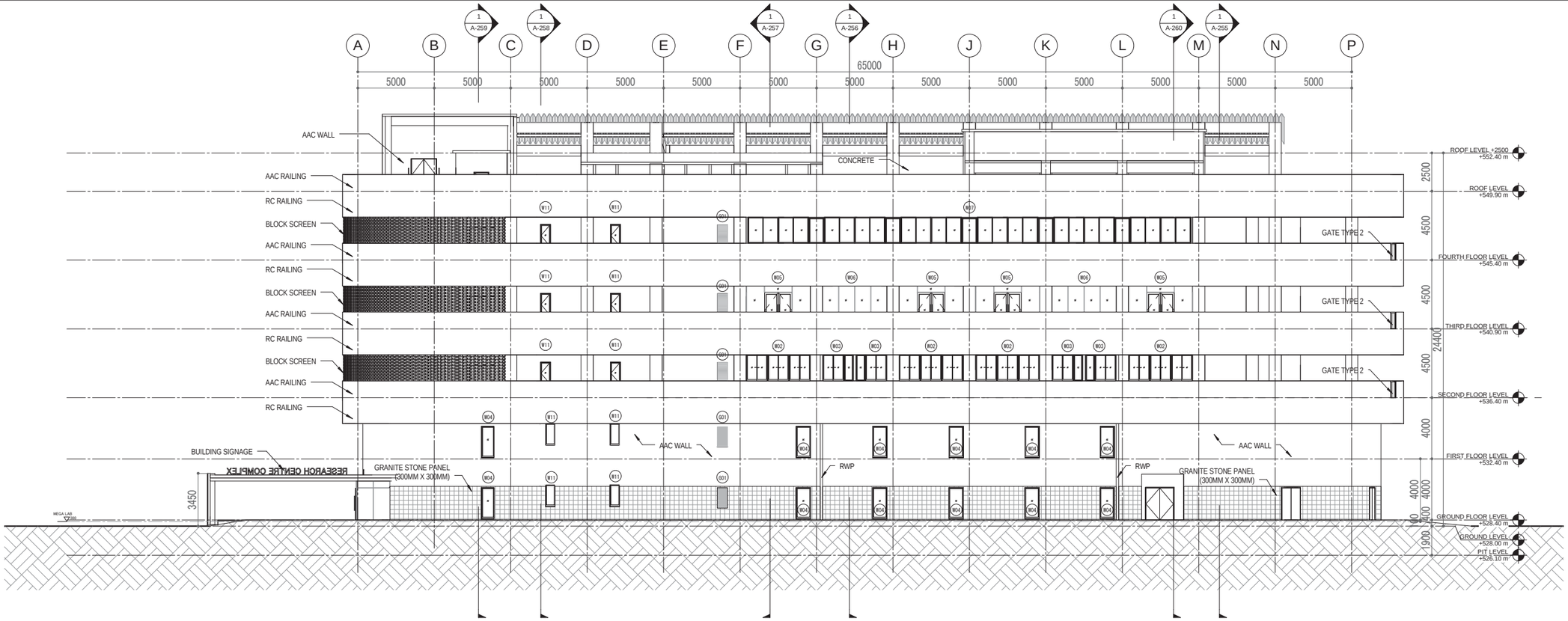
Sheet Number

RCC-A-201

Date	Scale	Drawn	Checked
2014/10/31	1 : 150	--	--



2 ELEVATION NORTH
1 : 150



1 ELEVATION EAST
1 : 150

INDIAN INSTITUTE OF TECHNOLOGY HYDERABAD

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DESIGN DEVELOPMENT DRAWING

Project Name

RESEARCH CENTER COMPLEX AT CAMPUS OF IIT HYDERABAD

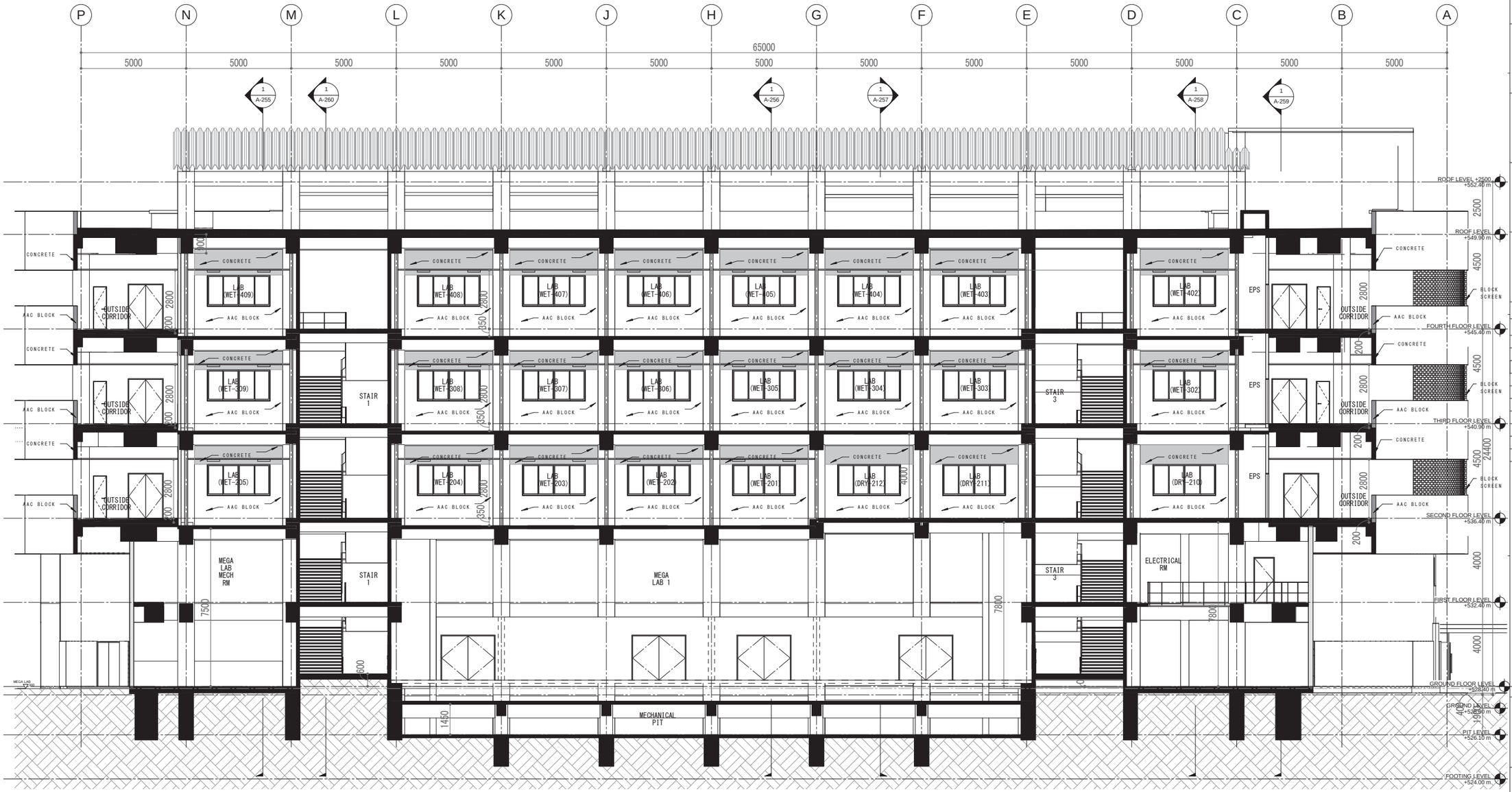
Sheet Title

ELEVATION

Sheet Number

RCC-A-202

Date	Scale	Drawn	Checked
2014/10/31	1 : 150	--	--



1 BUILDING SECTION
1 : 100

INDIAN INSTITUTE OF TECHNOLOGY HYDERABAD

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NOT FOR CONSTRUCTION

SIGN. SEAL.

DESIGN DEVELOPMENT DRAWING

Project Name

RESEARCH CENTER COMPLEX AT CAMPUS OF IIT HYDERABAD

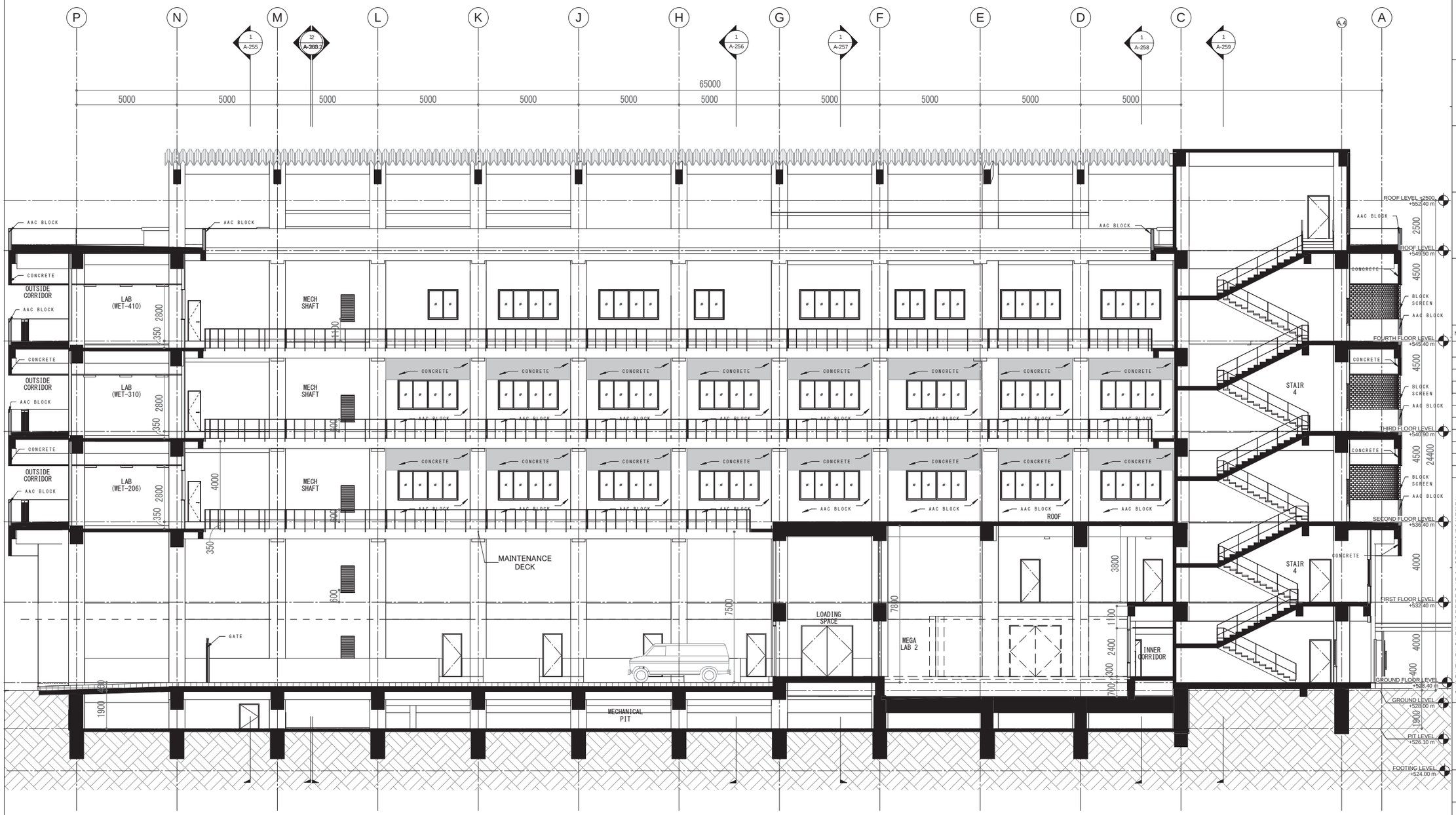
Sheet Title

BUILDING SECTION NORTH-SOUTH

Sheet Number

RCC-A-251

Date	Scale	Drawn	Checked
2014/10/31	1 : 100	--	--



1 BUILDING SECTION
1 : 100

INDIAN INSTITUTE OF TECHNOLOGY HYDERABAD

RESEARCH CENTER COMPLEX

THE UNIVERSITY OF TOKYO
IITH CAMPUS DESIGN STUDIO
Faculty of Engineering Building1,Rm #331
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Architect/Engineer
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NIHON SEKKEI INC.
6-5-1 Nishi-Shinjuku,Shinjuku
Tokyo 163-1329 JAPAN

APL DESIGN WORKSHIP INC.
4-2-1 Yushima,Bunkyo-Ku
Tokyo 113-0034 JAPAN

Architect Of Record
ASTUTE ENGINEERING SERVICES PVT. LTD.
9 & 10, Symphony C, Range Hills,
Bhosale Nagar, Pune - 411 020, (India)

No.	Date	Issue
07	31 OCT 2014	ISSUED FOR DESIGN DEVELOPMENT100%
06	8 SEP 2014	ISSUED FOR DESIGN DEVELOPMENT 90%
05	28 JUL 2014	ISSUED FOR DESIGN DEVELOPMENT 70%
04	4 JUL 2014	ISSUED FOR DESIGN DEVELOPMENT 50%
03	17 JUN 2014	ISSUED FOR COST ESTIMATION
02	31 MAY 2014	ISSUED FOR DD 30%
01	31 MAR 2014	ISSUED FOR SD

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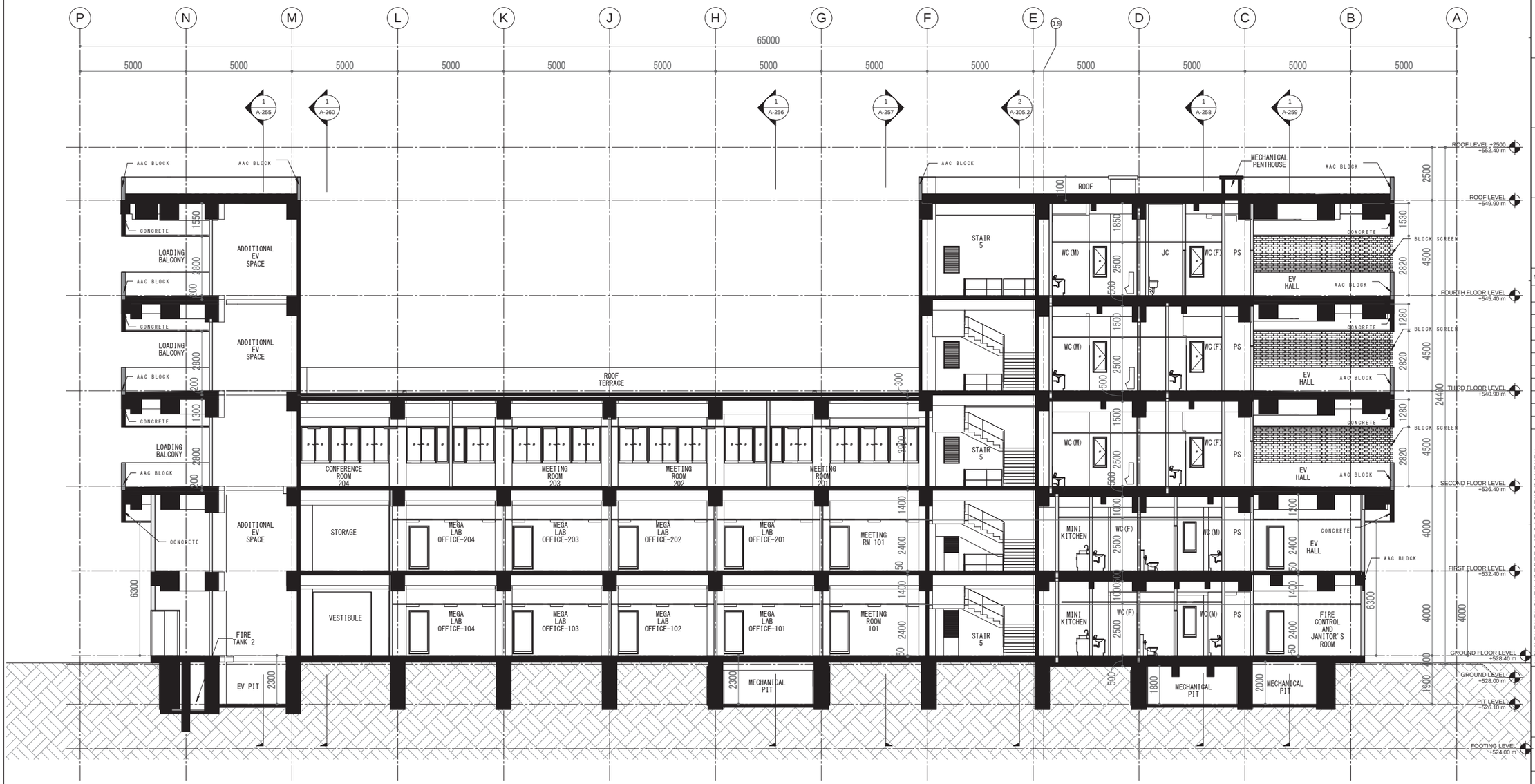
DESIGN DEVELOPMENT DRAWING

Project Name
RESEARCH CENTER COMPLEX AT CAMPUS OF IIT HYDERABAD

Sheet Title
BUILDING SECTION NORTH-SOUTH

Sheet Number
RCC-A-252

Date	Scale	Drawn	Checked
2014/10/31	1 : 100	--	--



1 BUILDING SECTION
1 : 100

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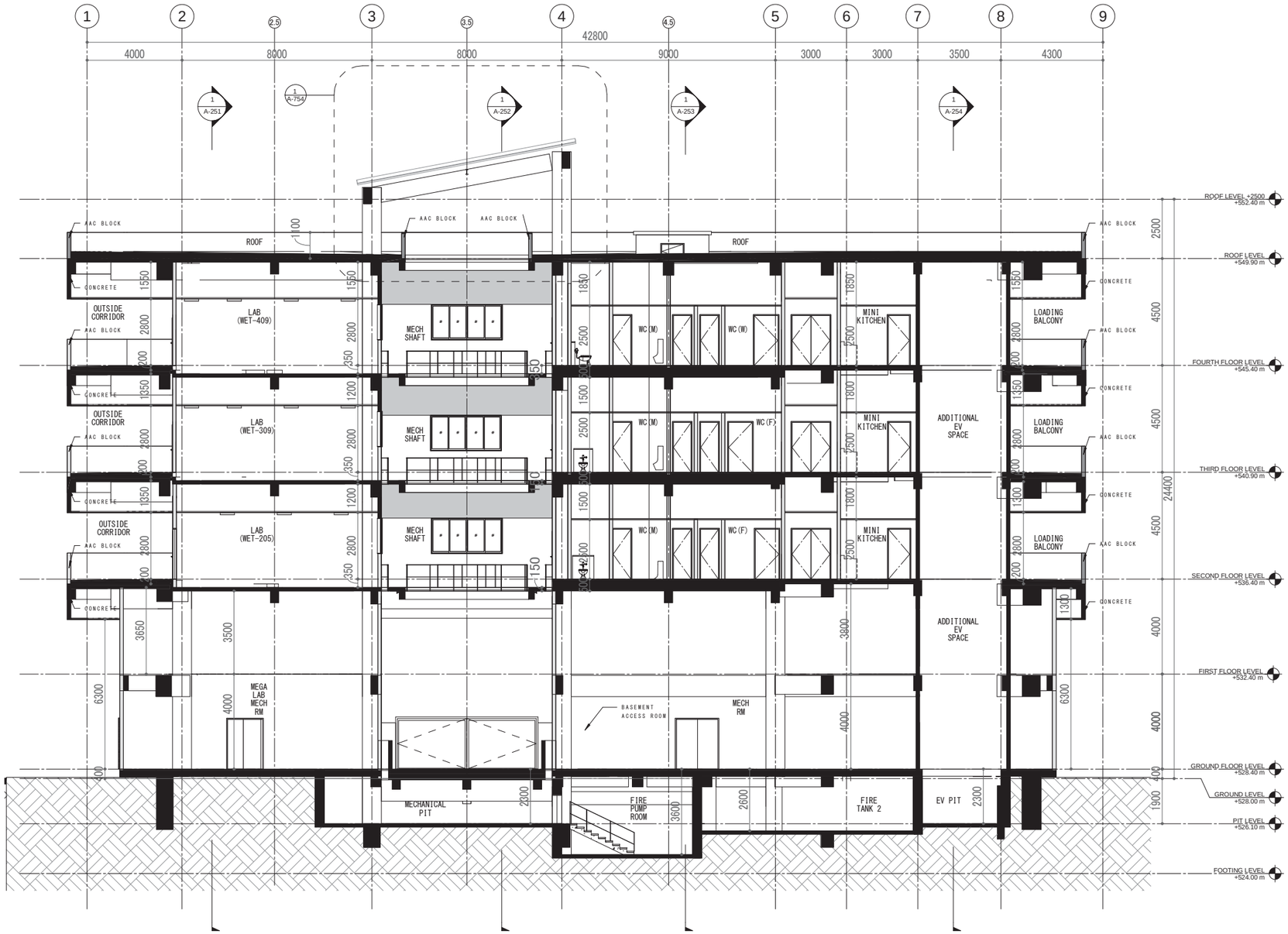
DESIGN DEVELOPMENT DRAWING

Project Name
RESEARCH CENTER COMPLEX AT CAMPUS OF IIT HYDERABAD

Sheet Title
BUILDING SECTION NORTH-SOUTH

Sheet Number
RCC-A-254

Date	Scale	Drawn	Checked
2014/10/31	1 : 100	--	--



1 BUILDING SECTION
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DESIGN DEVELOPMENT DRAWING

Project Name

RESEARCH CENTER COMPLEX AT CAMPUS OF IIT HYDERABAD

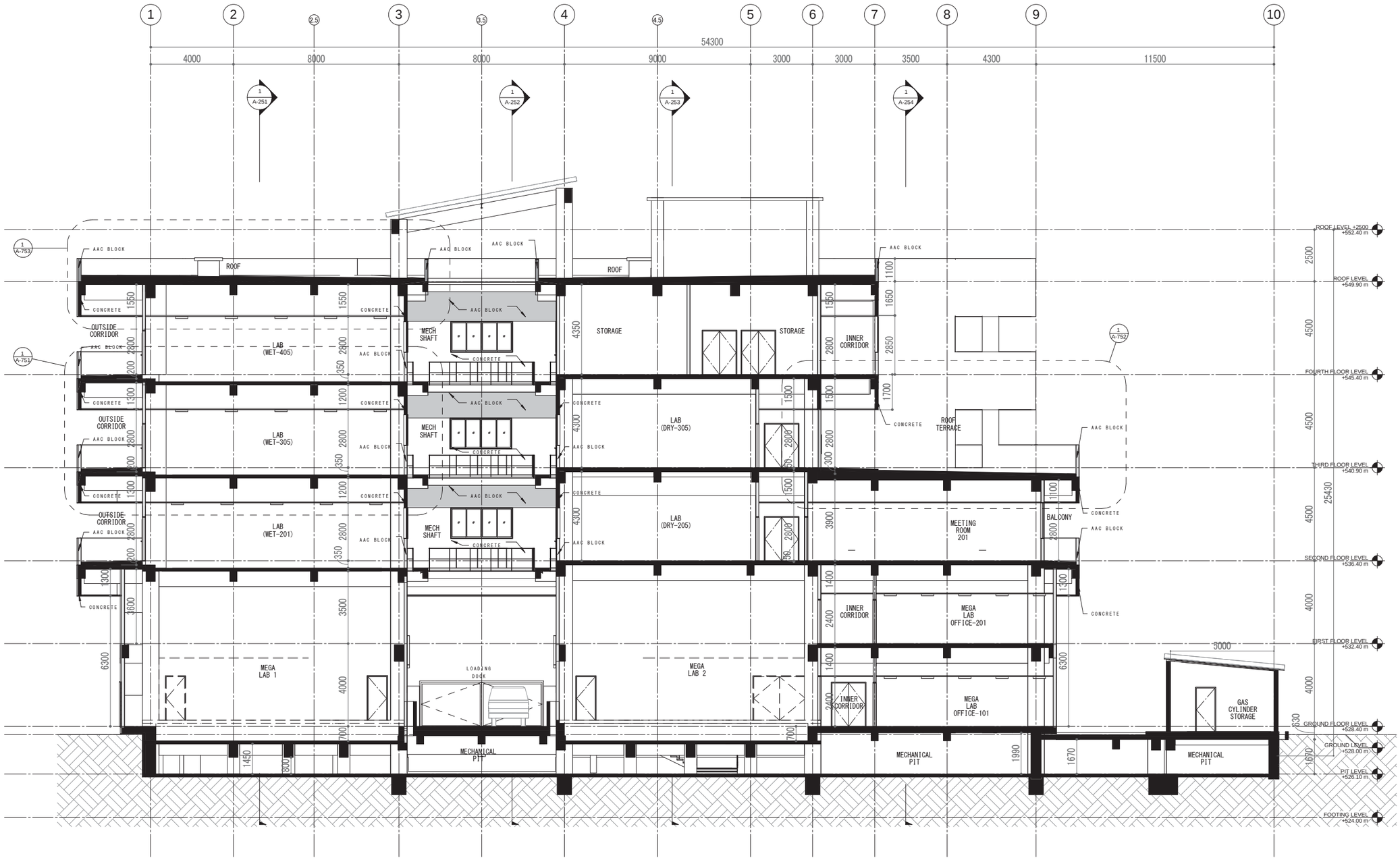
Sheet Title

BUILDING SECTION EAST-WEST

Sheet Number

RCC-A-255

Date	Scale	Drawn	Checked
2014/10/31	1 : 100	--	--



1 BUILDING SECTION
1 : 100

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DESIGN DEVELOPMENT DRAWING

Project Name

RESEARCH CENTER COMPLEX AT CAMPUS OF IIT HYDERABAD

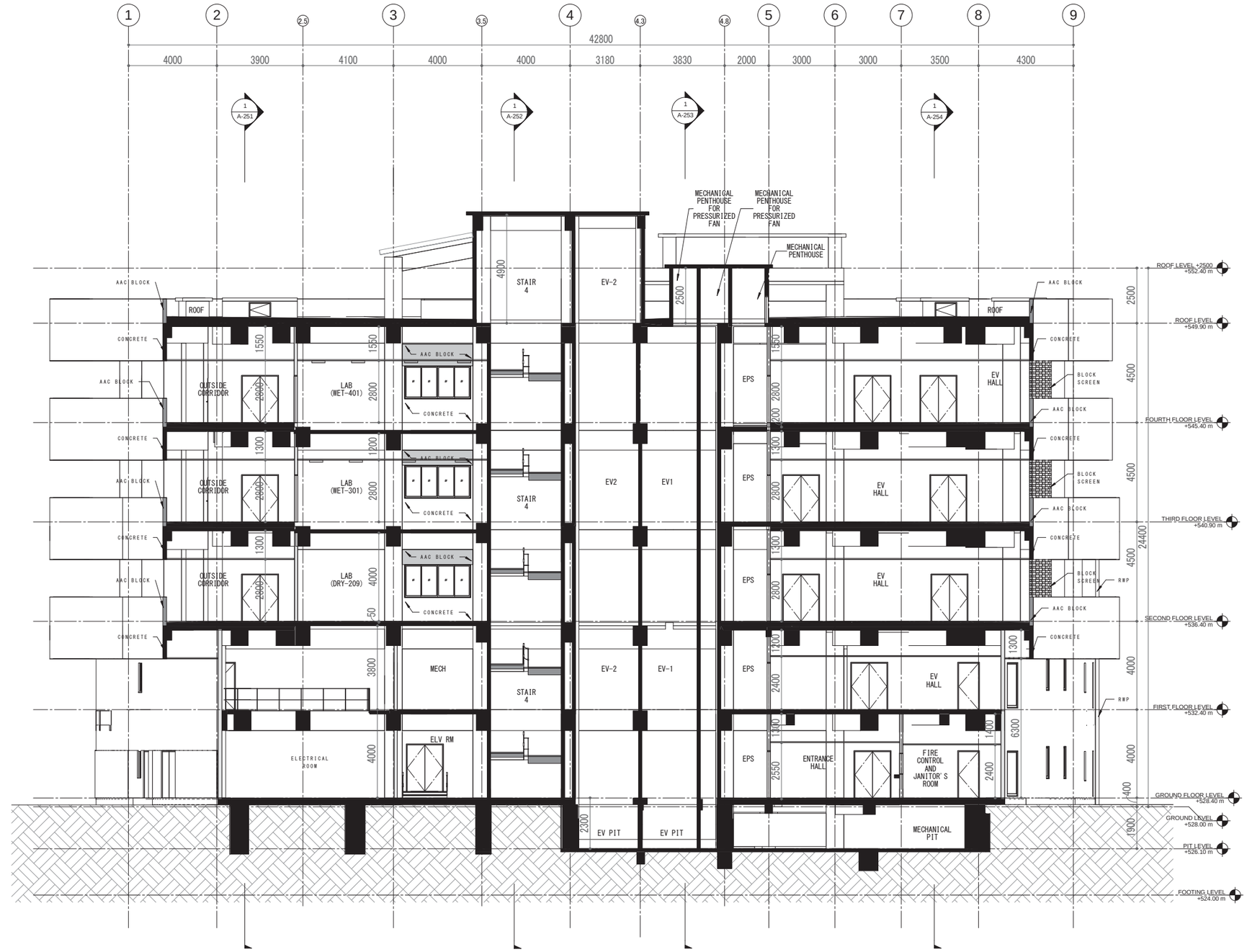
Sheet Title

BUILDING SECTION EAST-WEST

Sheet Number

RCC-A-256

Date	Scale	Drawn	Checked
2014/10/31	1 : 100	--	--



1 BUILDING SECTION
1 : 100

INDIAN INSTITUTE OF TECHNOLOGY HYDERABAD

RESEARCH CENTER COMPLEX

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DESIGN DEVELOPMENT DRAWING

Project Name

RESEARCH CENTER COMPLEX AT CAMPUS OF IIT HYDERABAD

Sheet Title

BUILDING SECTION EAST-WEST

Sheet Number

RCC-A-259

Date	Scale	Drawn	Checked
2014/10/31	1 : 100	--	--