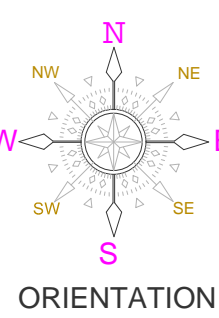




PHE-LEGEND		
DWS	DOMESTIC WATER SUPPLY	—
FWS	FLUSHING WATER SUPPLY	—
FWS	FWS PRM LINE	—
DWS	DWS PRM LINE	—
MV	MOTORIZED BALL/BUTTERFLY VALVE	⊞
BV/BFV	BALL VALVE/BUTTERFLY VALVE	⊞
	REDUCER	⊞
	FLOW DIRECTION	→

KEY PLAN



GENERAL NOTES:

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REV. NO.	REVISION DESCRIPTION	DATE
R0	TENDER DRAWINGS	05.02.2025
R1		
R2		
R3		
R4		
R5		
R6		

PROJECT

NEW ACADEMIC BLOCK  
Gnana Bharathi Main Rd, Teachers Colony,  
Naagarabhaavi, Bengaluru, Karnataka 560072

CLIENT

NATIONAL LAW SCHOOL OF INDIA  
UNIVERSITY  
Gnana Bharathi Main Rd, Teachers Colony,  
Naagarabhaavi, Bengaluru, Karnataka 560072

STRUCTURAL CONSULTANT

RAY'S CONSULTING ENGINEERS  
#30, 1st Main, 6th Cross,  
UAS layout, Sanjay Nagar,  
Bangalore - 560094

ARCHITECT

HUNDREDDHANDS  
9/2, Madras Bank Road,  
Shanthala Nagar, Ashok Nagar,  
Bengaluru,  
Karnataka 560001

MEPF AND IBMS CONSULTANTS

LEAD  
Eco Friendly Solutions  
LEAD CONSULTANCY & ENGINEERING  
SERVICES (INDIA) Pvt.Ltd.  
No.2729, 1st FLOOR, 80 FEET ROAD  
INDIRA NAGAR III STAGE, BENGALURU-560038, KARNATAKA,  
Phone: +91 80 42980111, Web: lcsind.org  
India: Bengaluru | Mumbai | Pune | Gurgaon | Chennai | Hyderabad | Kolkata

DRAWING TITLE

WATER SUPPLY SCHEMATIC DRAWING

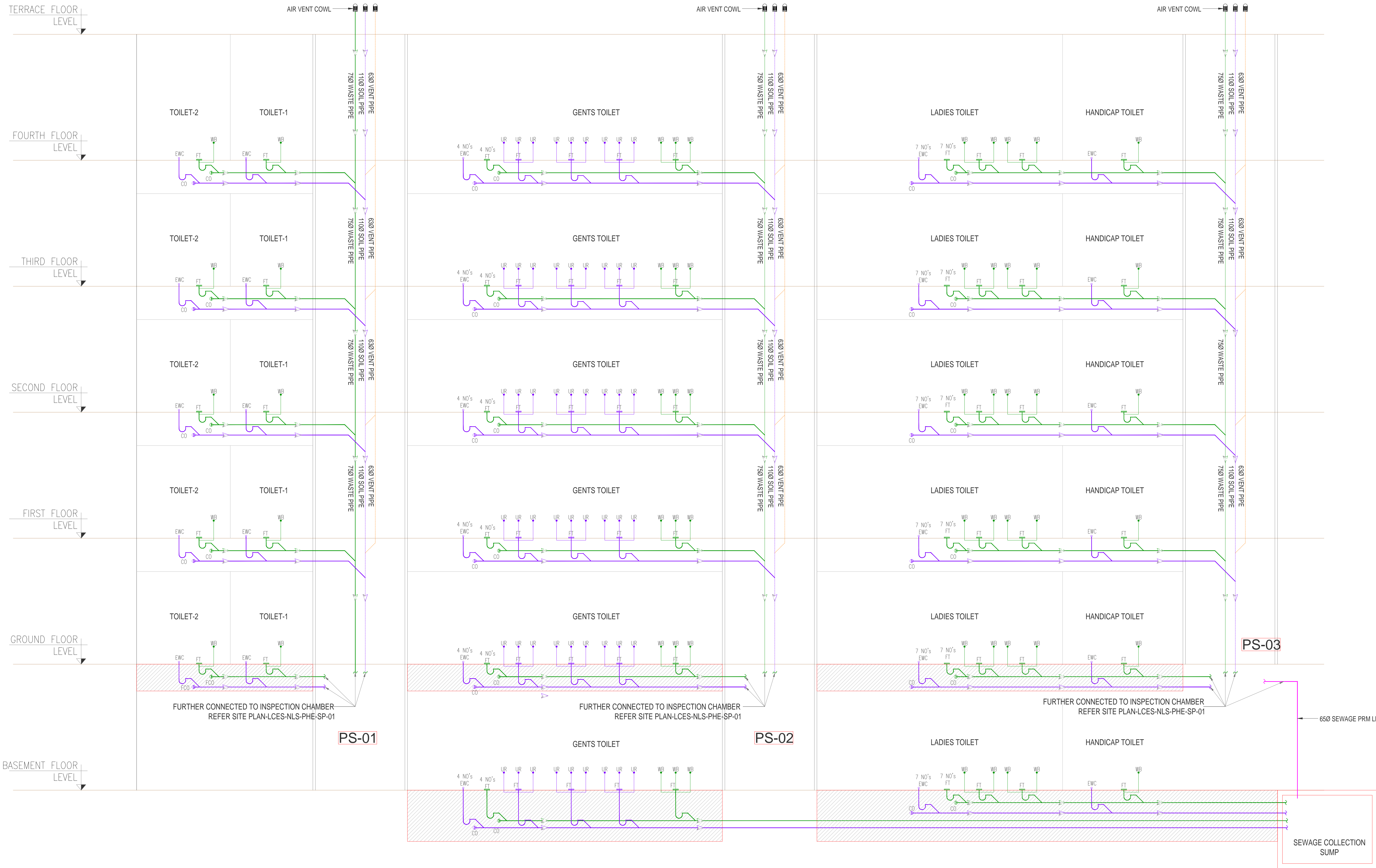
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CHECKED	MANJU	LCES-NLS-PHE-WS-SCH-02	SHEET SIZE	A1
APPROVED	VM	REVISION-R0	DATE	05.02.2025

DRAWING ISSUED FOR

TENDER DRAWINGS

THIS DRAWING IS SOLE PROPERTY OF CONSULTANCY  
USE OF THIS DRAWING FOR ANY PURPOSE OTHER THAN THAT  
MENTIONED TO BE DONE ONLY AFTER THEIR PRIOR APPROVAL.





PHE-L E G E N D		
SP	SOIL PIPE	
WP	WASTE PIPE	
VP	VENT PIPE	
	SEWAGE PRM LINE	
	FLOW DIRECTION	
UR	URINAL	
EWC	EUROPEAN WATER CLOSET	
WB	WASH BASIN	
CO	CLEAN OUT	
FT	FLOOR TRAP	

KEY PLAN

- GENERAL NOTES:
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4. FOLLOW WRITTEN DIMENSIONS ONLY, DO NOT SCALE THE DRAWING.

REV. NO.	REVISION DESCRIPTION	DATE
R0	TENDER DRAWINGS	05.02.2025
R1		
R2		
R3		
R4		
R5		
R6		

PROJECT

JSW ACADEMIC BLOCK - NLSIU

NEW ACADEMIC BLOCK  
Gnana Bharathi Main Rd, Teachers Colony,  
Naagarabhaavi, Bengaluru, Karnataka 560072

CLIENT

NATIONAL LAW SCHOOL OF INDIA  
UNIVERSITY

Gnana Bharathi Main Rd, Teachers Colony,  
Naagarabhaavi, Bengaluru,  
Karnataka 560072

STRUCTURAL CONSULTANTS:

RAYS CONSULTING ENGINEERS

#30, 1st Main, 6th Cross,  
UAS layout, Sanjay Nagar,  
Bangalore - 560094

ARCHITECT

HUNDREDHANDS

9/2, Madras Bank Road,  
Shanthala Nagar, Ashok Nagar,  
Bengaluru,  
Karnataka 560001

MEPE AND IBMS CONSULTANTS

LEAD CONSULTANCY & ENGINEERING SERVICES (INDIA) Pvt.Ltd.  
Eco Friendly Solutions  
No.2729, 1st FLOOR, 80 FEET ROAD,  
INDIRA NAGAR III STAGE, BENGALURU-560038, KARNATAKA,  
Phone: +91 80 42980111, Web:lcsind.org  
India: Bengaluru| Mumbai | Pune| Gurgaon| Chennai| Hyderabad| Kolkata

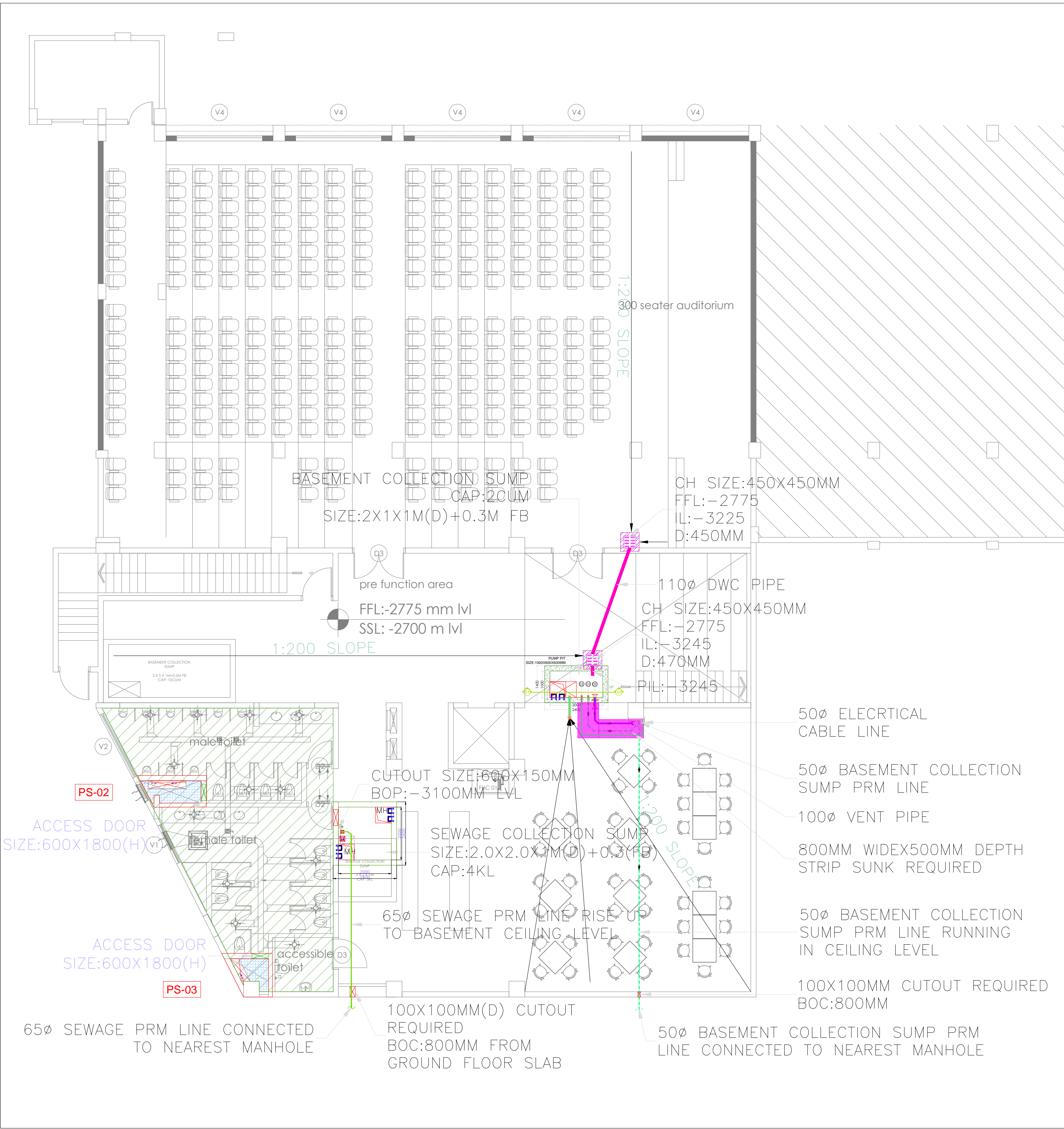
DRAWING TITLE			
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DRAWN BY	KGM	DRAWING NUMBER	SCALE
CHECKED	MANJU	LCES-NLS-PHE-WS-SCH-03	SHEET SIZE
APPROVED	VM	REVISION-R0	DATE
			05.02.2025

DRAWING ISSUED FOR

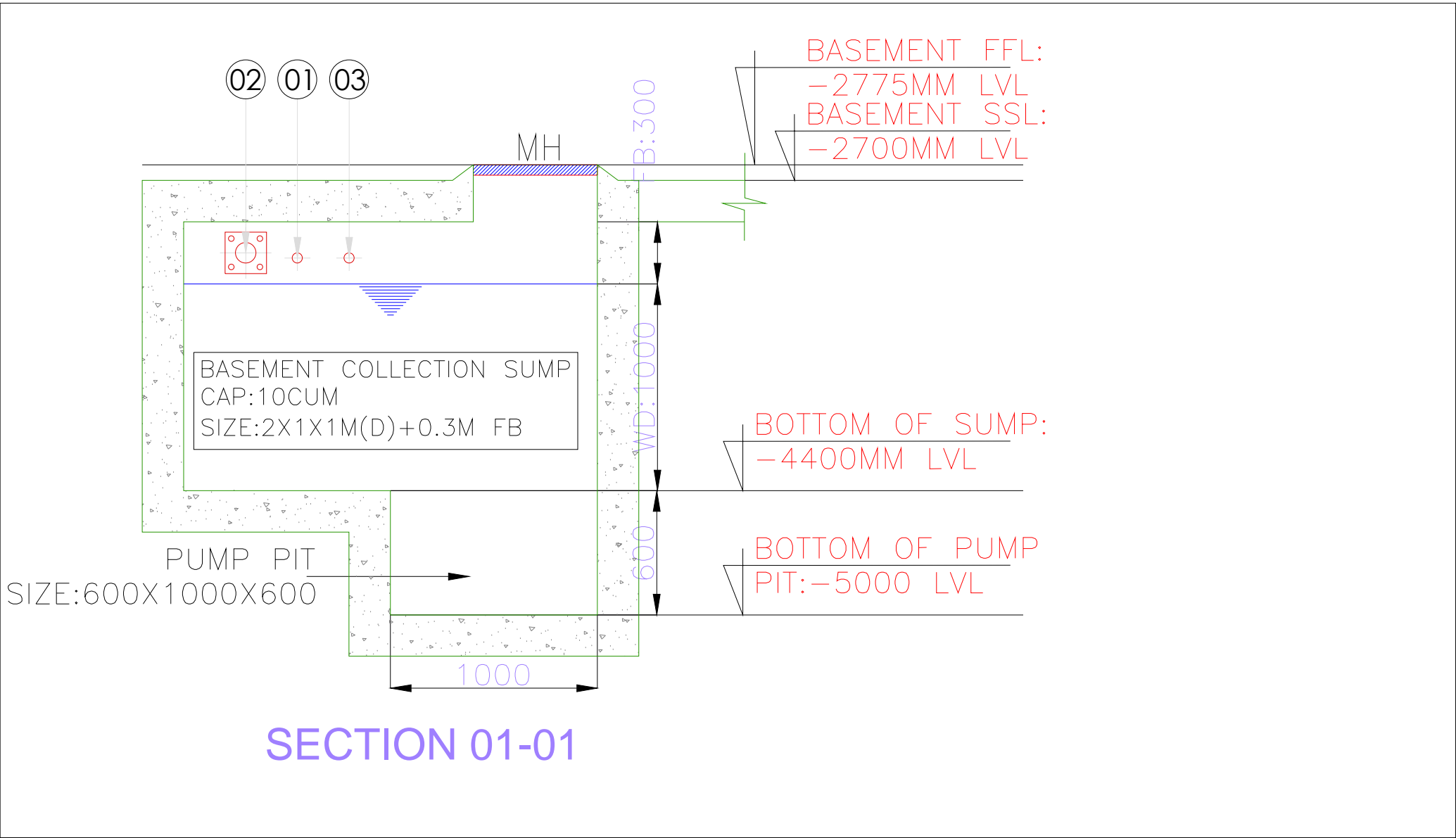
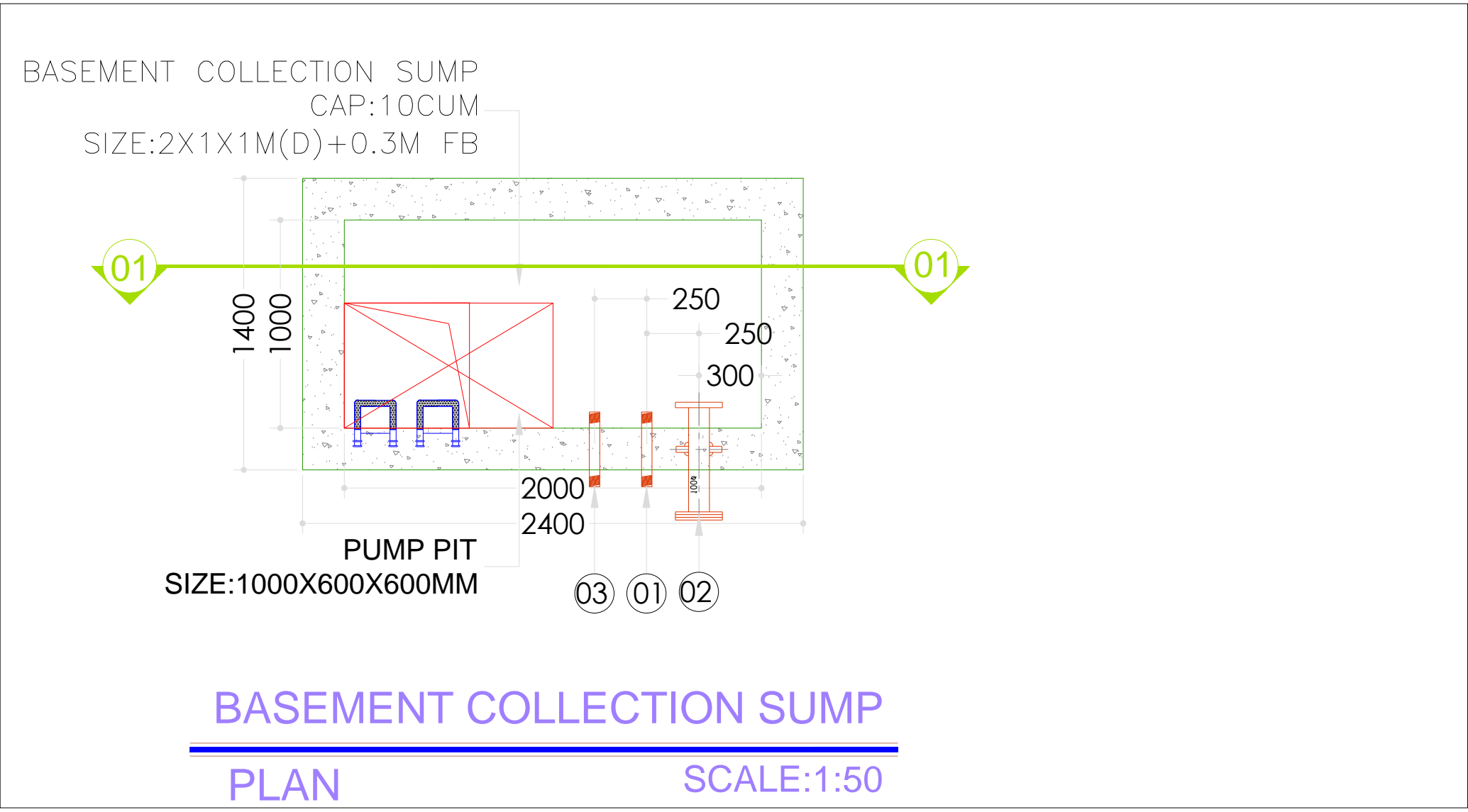
TENDER DRAWINGS

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USE OF THIS DRAWING FOR ANY PURPOSE OTHER THAN THAT MENTIONED TO BE DONE ONLY AFTER THEIR PRIOR APPROVAL.





PHE LEGENDS:-	
SYMBOL	DESCRIPTION
	FLUSHING WATER SUPPLY (FWS)
	DOMESTIC WATER SUPPLY (DWS)
	RAIN WATER PIPE(RWP)
	110Ø SOIL PIPE(SP)
	63Ø VENT PIPE(VP)
	75Ø WASTE PIPE(WP)
	65Ø FLUSHING WATER SUPPLY PRM LINE(FWS)
	65Ø DOMESTIC WATER SUPPLY PRM LINE (DWS)
	ACCESS DOOR
	LANDING PLATFORM
	100MM SUNKEN + CORECUT REQUIRED
	300MM SUNK
	450MM SUNK
	KHURRA
	RAIN WATER PIPE (RWP)
	RIDGE LINE
	1:200 SLOPE
	DWS PIPE
	FWS PIPE
	65Ø FWS PRM LINE
	65Ø DWS PRM LINE
	BUTTERFLY/BALL VALVE (BFV/BV)
	Y- STARINER
	FLOW DIRECTION



#### BASEMENT COLLECTION SUMP & C SUB SOIL PUDDLE FLANGE INDEX

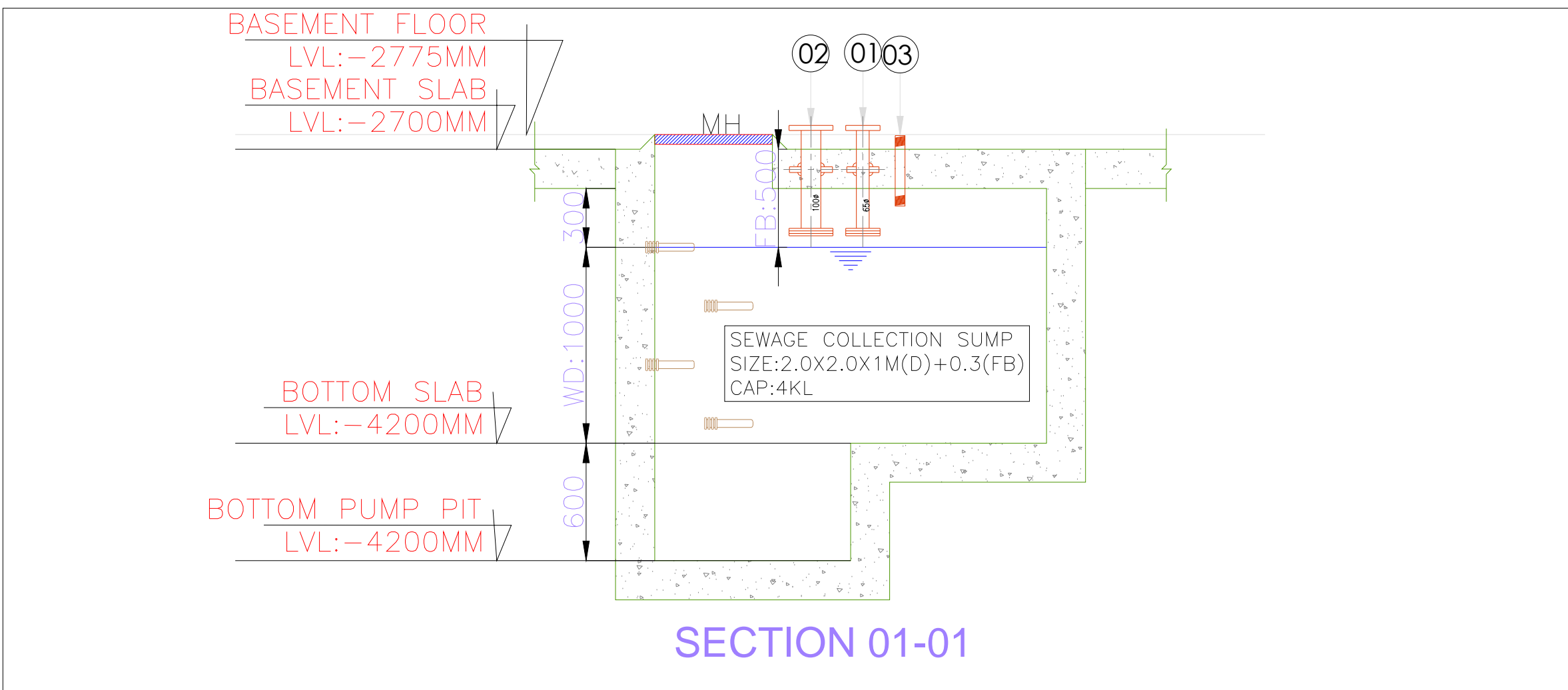
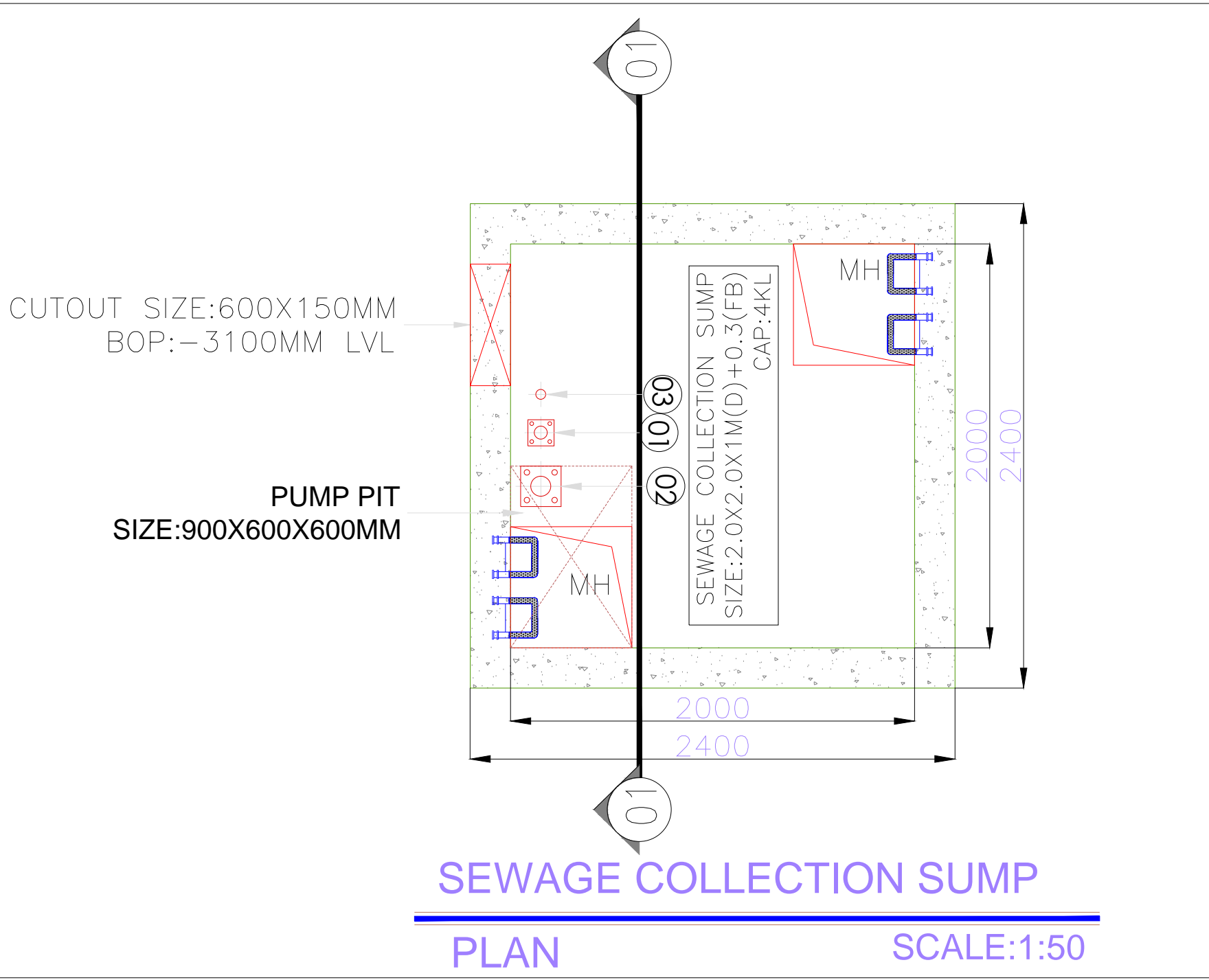
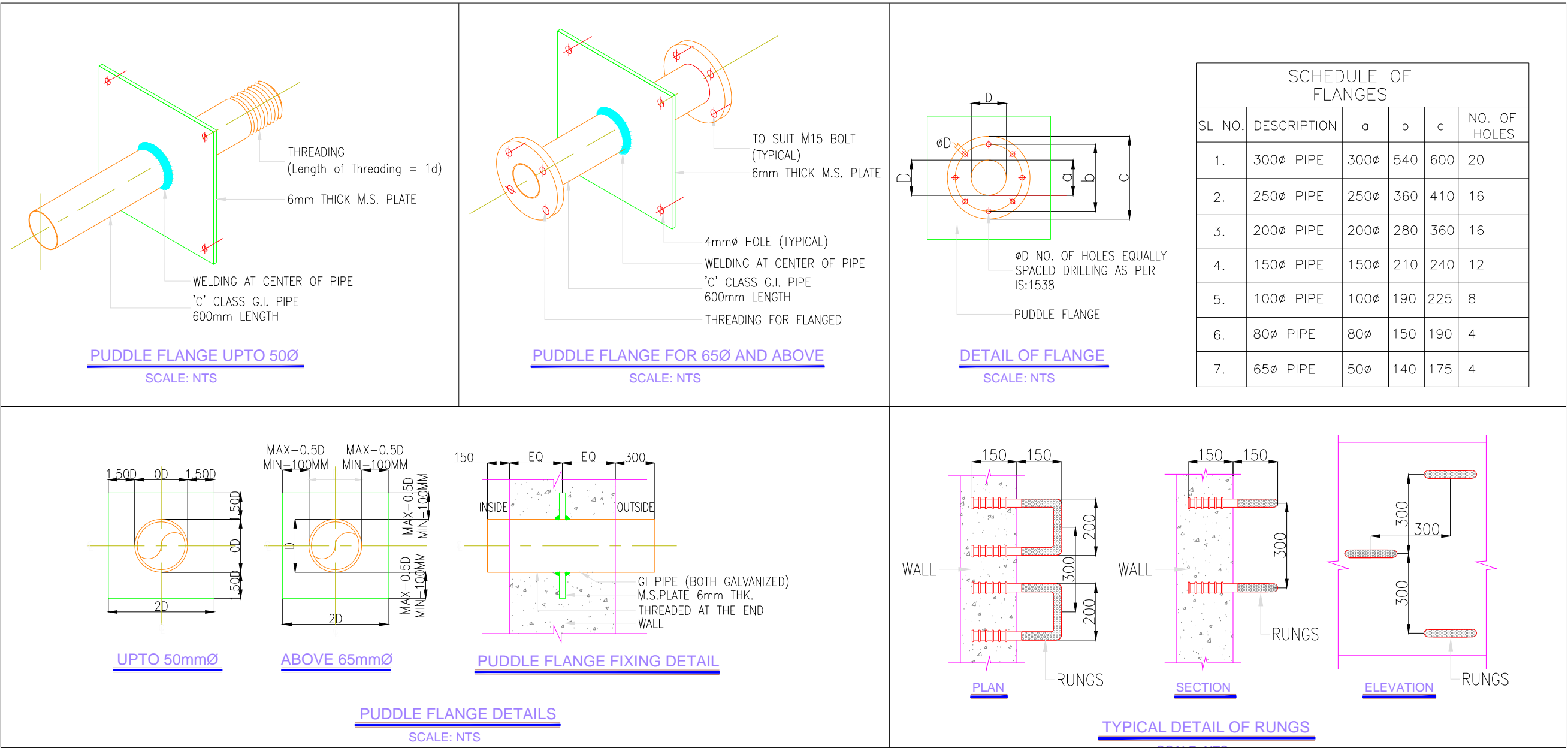
SL NO	DESCRIPTION	SIZE IN MM	BOTTOM OF PIPE LEVEL
P1	PRM LINE	50Ø	100MM ABOVE FREE BOARD LEVEL
P2	VENT PIPE	100Ø	100MM ABOVE FREE BOARD LEVEL
P3	ELECTRICAL CABLE PUDDLE FLANGE	50Ø	100MM ABOVE FREE BOARD LEVEL
MH	MANHOLE-FRP FRAME & COVER WITH RUNGS	600x600	AS SHOWN

NOTE: 1. THE PUMP AND EQUIPMENT SIZE SHOULD BE AS PER VENDORS SHOP DRAWINGS.  
2. ALL PUDDLE FLANGES ARE TO BE HOT DIPPED GALVANIZED.

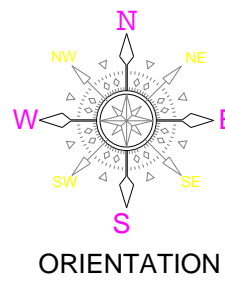
#### SEWAGE COLLECTION SUMP PUDDLE FLANGE INDEX

SL NO	DESCRIPTION	SIZE IN MM	BOTTOM OF PIPE LEVEL
P1	PRM LINE	65Ø	100MM ABOVE FREE BOARD LEVEL
P2	VENT PIPE	100Ø	100MM ABOVE FREE BOARD LEVEL
P3	ELECTRICAL CABLE PUDDLE FLANGE	50Ø	100MM ABOVE FREE BOARD LEVEL
MH	MANHOLE-FRP FRAME & COVER WITH RUNGS	600x600	AS SHOWN

NOTE: 1. THE PUMP AND EQUIPMENT SIZE SHOULD BE AS PER VENDORS SHOP DRAWINGS.  
2. ALL PUDDLE FLANGES ARE TO BE HOT DIPPED GALVANIZED.



#### KEY PLAN



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REV. NO.	REVISION DESCRIPTION	DATE
R0	TENDER DRAWINGS	05.02.2025
R1		
R2		
R3		
R4		
R5		
R6		

#### PROJECT

NEW ACADEMIC BLOCK  
Gnana Bharathi Main Rd, Teachers Colony, Naagarabhaavi, Bengaluru, Karnataka 560072

#### CLIENT

NATIONAL LAW SCHOOL OF INDIA UNIVERSITY  
Gnana Bharathi Main Rd, Teachers Colony, Naagarabhaavi, Bengaluru, Karnataka 560072

#### STRUCTURAL CONSULTANTS:

RAYS CONSULTING ENGINEERS  
#30, 1st Main, 6th Cross, UAS layout, Sanjay Nagar, Bangalore - 560094

#### ARCHITECT

HUNDREDHANDS  
9/2, Madras Bank Road, Shanthala Nagar, Ashok Nagar, Bengaluru, Karnataka 560001

#### MEPE & IBMS CONSULTANTS

LEAD CONSULTANCY & ENGINEERING SERVICES (INDIA) Pvt.Ltd.  
No.229, 1st FLOOR, 80 FEET ROAD, HOIPA HANGAR B STAGE, BENGALURU-560038, KARNATAKA.  
Phone: +91 80 42880111, Web: lcsindia.org  
India Bengaluru | Mumbai | Pune | Gurgaon | Chennai | Hyderabad | Kolkata

#### DRAWING TITLE

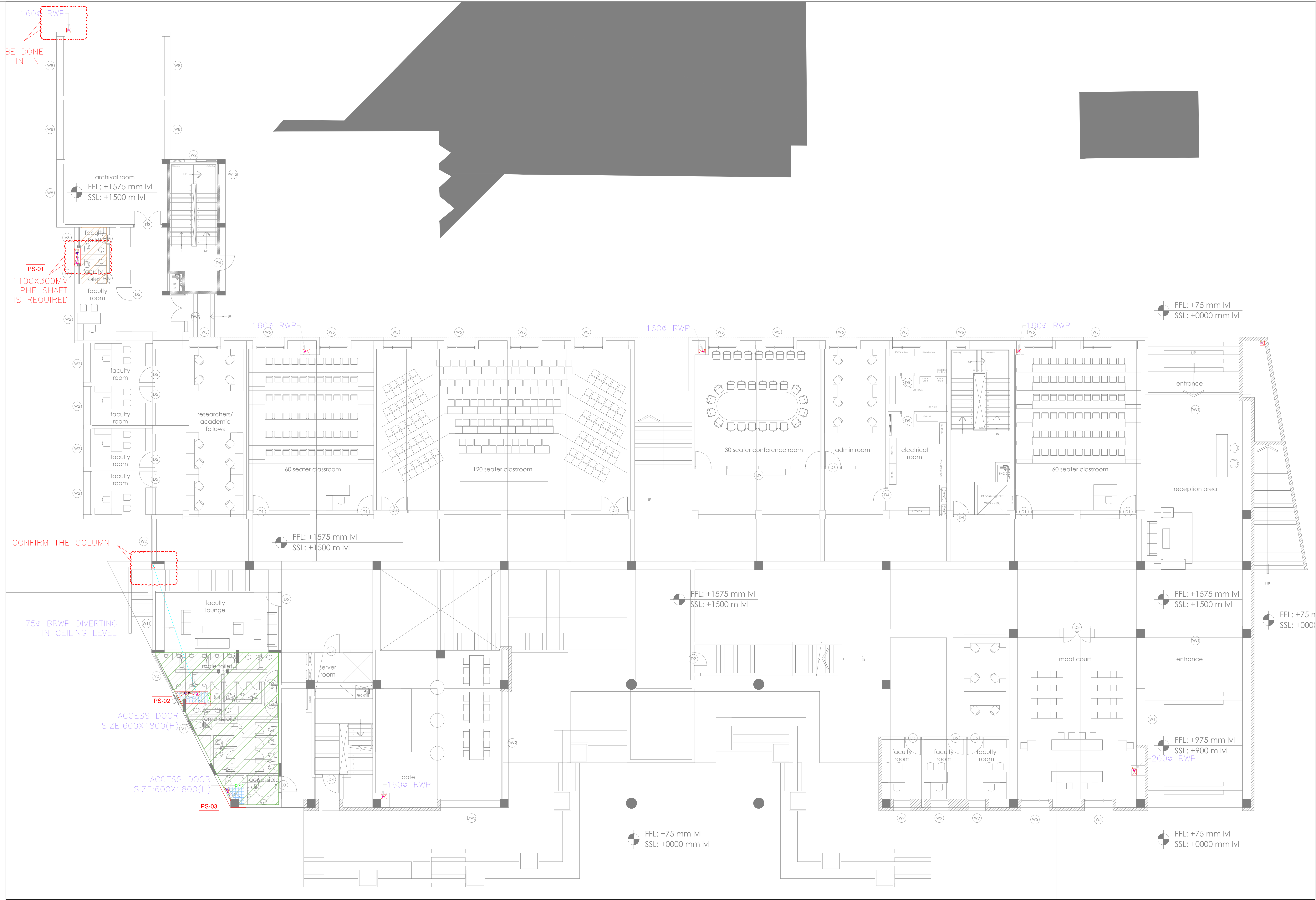
BASEMENT FLOOR PHE LAYOUT			
DRAWN BY	KGM	DRAWING NUMBER	SCALE
CHECKED	MANJU	LCS-S-NLS-PHE-B1-01	SHEET SIZE
APPROVED	VM	REVISION-R0	DATE

#### DRAWING ISSUED FOR

TENDER DRAWINGS

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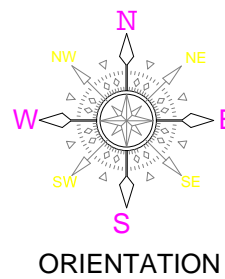




PHE LEGENDS:-	
SYMBOL	DESCRIPTION
	FLUSHING WATER SUPPLY (FWS)
	DOMESTIC WATER SUPPLY (DWS)
	RAIN WATER PIPE(RWP)
	1100 SOIL PIPE(SP)
	630 VENT PIPE(VP)
	750 WASTE PIPE(WP)
	650 FLUSHING WATER SUPPLY PRM LINE(FWS)
	650 DOMESTIC WATER SUPPLY PRM LINE (DWS)
	ACCESS DOOR
	LANDING PLATFORM
	100MM SUNKEN + CORECUT REQUIRED

	300MM SUNK
	450MM SUNK
	KHURRA
	RAIN WATER PIPE (RWP)
	RIDGE LINE
	1:200 SLOPE
	DWS PIPE
	FWS PIPE
	650 FWS PRM LINE
	650 DWS PRM LINE
	BUTTERFLY/BALL VALVE (BFV/BV)
	Y- STARINER
	FLOW DIRECTION

KEY PLAN



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R0	TENDER DRAWINGS	05.02.2025
R1		
R2		
R3		
R4		
R5		
R6		

PROJECT

NEW ACADEMIC BLOCK  
Gnana Bharathi Main Rd, Teachers Colony, Naagarabhaavi, Bengaluru, Karnataka 560072

CLIENT

NATIONAL LAW SCHOOL OF INDIA UNIVERSITY  
Gnana Bharathi Main Rd, Teachers Colony, Naagarabhaavi, Bengaluru, Karnataka 560072

STRUCTURAL CONSULTANTS:

RAYS CONSULTING ENGINEERS  
#30, 1st Main, 6th Cross, UAS layout, Sanjay Nagar, Bangalore – 560094

ARCHITECT

HUNDREDHANDS  
9/2, Madras Bank Road, Shanthala Nagar, Ashok Nagar, Bengaluru, Karnataka 560001

MEPE AND IBMS CONSULTANTS

LEAD CONSULTANCY & ENGINEERING SERVICES (INDIA) Pvt.Ltd.  
No.229, 1st FLOOR, 80 FEET ROAD, HOIMA HANNAH B STAGE, BENGALURU-560038, KARNATAKA, Phone: +91 80 42880111, Web: lcsindia.org  
India Bengaluru Mumbai Pune Gurgaon Chennai Hyderabad Kolkata

DRAWING TITLE

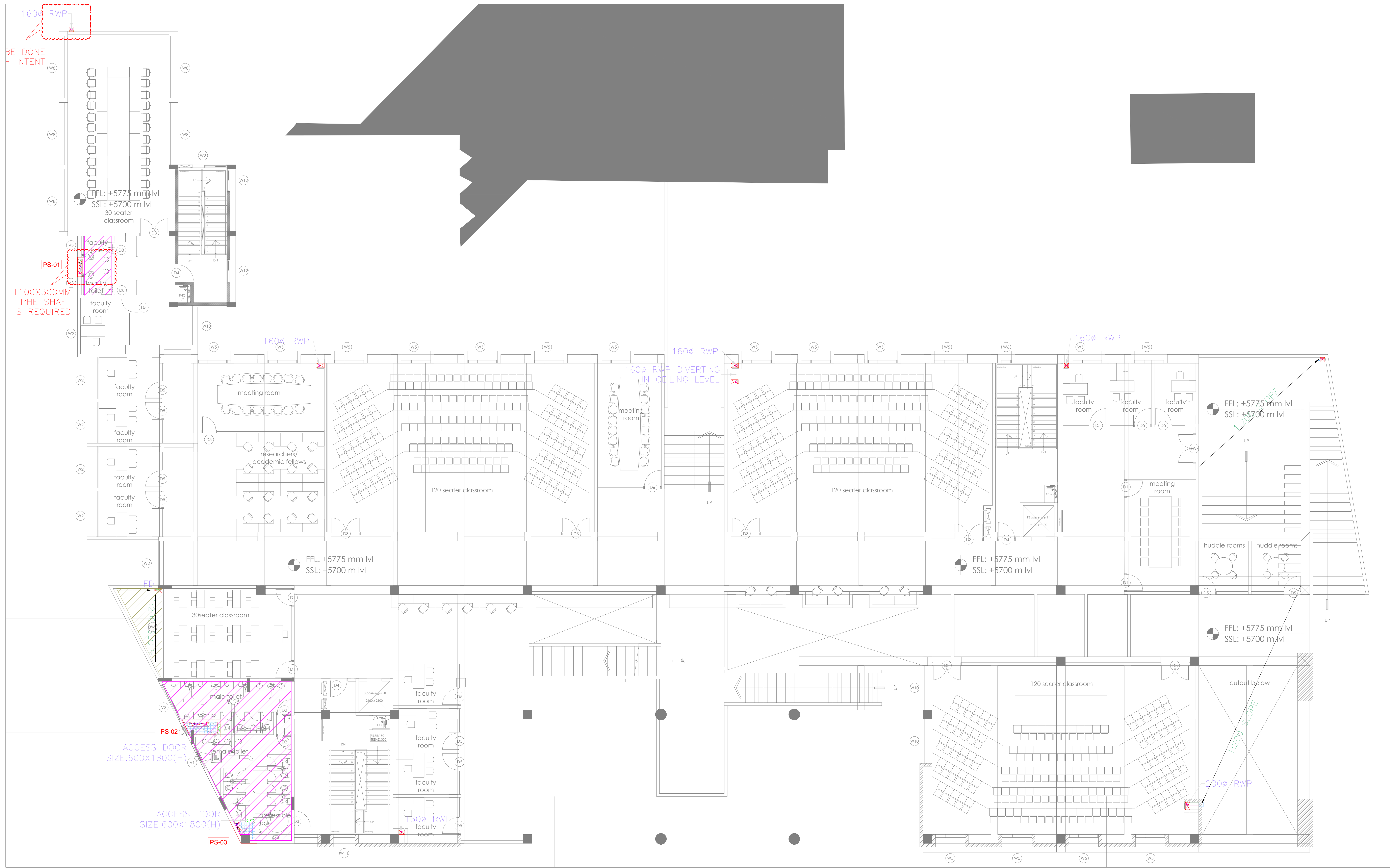
GROUND FLOOR PHE LAYOUT			
DRAWN BY	KGM	DRAWING NUMBER	SCALE
CHECKED	MANJU	LCS-NS-PHE-GF-02	SHEET SIZE
APPROVED	VM	REVISION-R0	DATE

DRAWING ISSUED FOR

TENDER DRAWINGS

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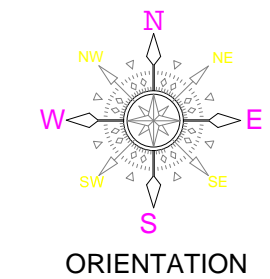




PHE LEGENDS:-	
SYMBOL	DESCRIPTION
	FLUSHING WATER SUPPLY (FWS)
	DOMESTIC WATER SUPPLY (DWS)
	RAIN WATER PIPE(RWP)
	1100 SOIL PIPE(SP)
	630 VENT PIPE(VP)
	750 WASTE PIPE(WP)
	650 FLUSHING WATER SUPPLY PRM LINE(FWS)
	650 DOMESTIC WATER SUPPLY PRM LINE (DWS)
	ACCESS DOOR
	LANDING PLATFORM
	100MM SUNKEN + CORECUT REQUIRED
	300MM SUNK

	450MM SUNK
	KHURRA
	RAIN WATER PIPE (RWP)
	RIDGE LINE
	1:200 SLOPE
	DWS PIPE
	FWS PIPE
	650 FWS PRM LINE
	650 DWS PRM LINE
	BUTTERFLY/BALL VALVE (BFV/BV)
	Y- STARINER
	FLOW DIRECTION
	MOTORISED VALVE(MBV)

KEY PLAN



GENERAL NOTES:

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REV. NO.	REVISION DESCRIPTION	DATE
R0	TENDER DRAWINGS	05.02.2025
R1		
R2		
R3		
R4		
R5		
R6		

**PROJECT**

NEW ACADEMIC BLOCK  
Gnana Bharathi Main Rd, Teachers Colony, Naagarabhaavi, Bengaluru, Karnataka 560072

**CLIENT**

NATIONAL LAW SCHOOL OF INDIA UNIVERSITY  
Gnana Bharathi Main Rd, Teachers Colony, Naagarabhaavi, Bengaluru, Karnataka 560072

**STRUCTURAL CONSULTANTS:**

RAYS CONSULTING ENGINEERS  
#30, 1st Main, 6th Cross, UAS layout, Sanjay Nagar, Bangalore – 560094

**ARCHITECT**

HUNDREDHANDS  
9/2, Madras Bank Road, Shanthala Nagar, Ashok Nagar, Bengaluru, Karnataka 560001

**MEPE AND IBMS CONSULTANTS**

LEAD CONSULTANCY & ENGINEERING SERVICES (INDIA) Pvt.Ltd.  
No.2/29, 1st FLOOR, 80 FEET ROAD, HOIPA HANGAR B STAGE, BENGALURU-560038, KARNATAKA, Phone: +91 80 42880111, Web:lsindia.org  
India: Bengaluru | Mumbai | Pune | Gurgaon | Chennai | Hyderabad | Kolkata

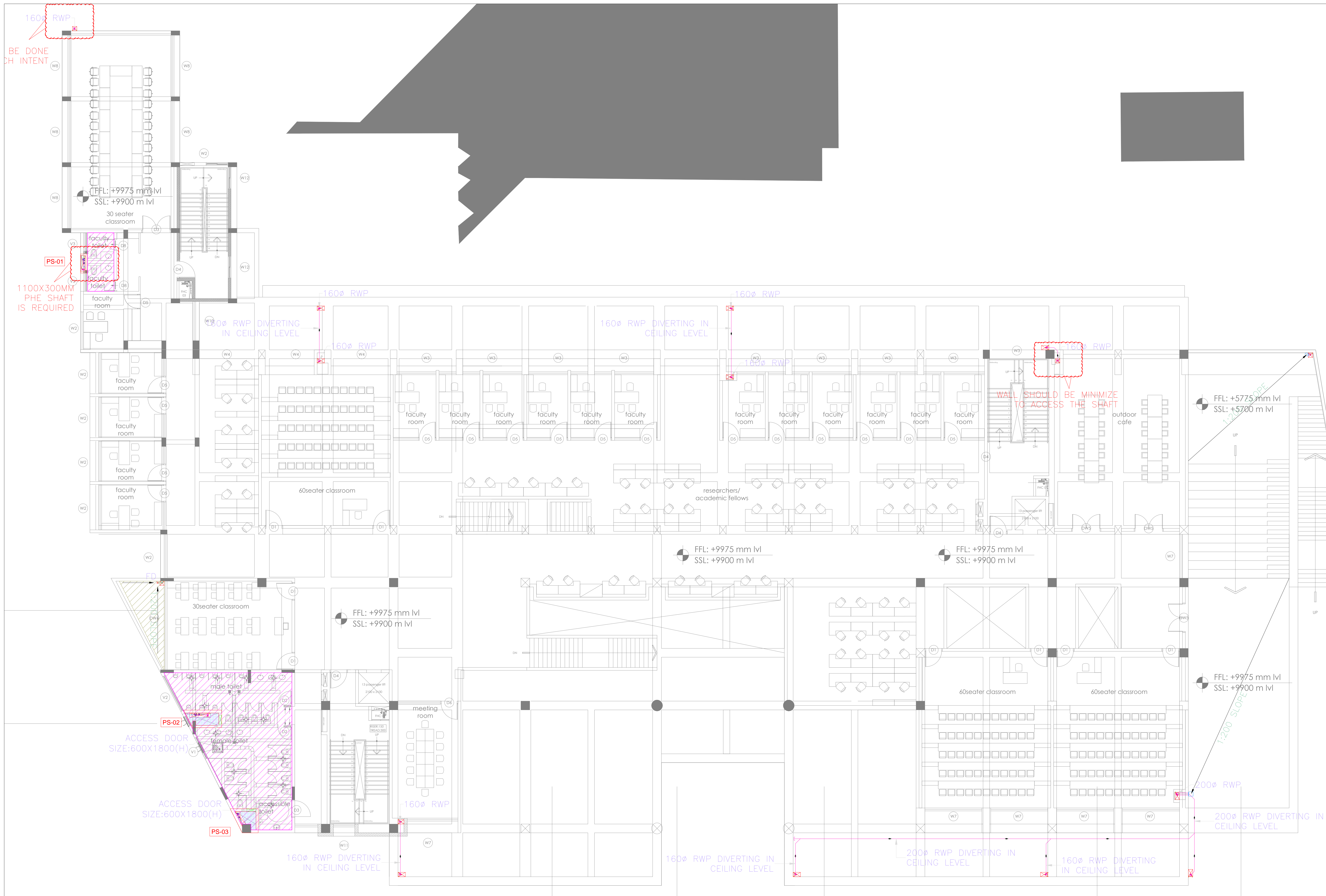
DRAWING TITLE			
FIRST FLOOR PHE LAYOUT			
DRAWN BY	KGM	DRAWING NUMBER	SCALE
CHECKED	MANJU	LCES-NLS-PHE-1F-03	SHEET SIZE
APPROVED	VM	REVISION-R0	DATE
			05.02.2025

**DRAWING ISSUED FOR**

TENDER DRAWINGS

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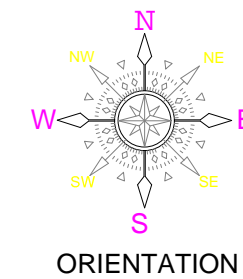




PHE LEGENDS:-	
SYMBOL	DESCRIPTION
	FLUSHING WATER SUPPLY (FWS)
	DOMESTIC WATER SUPPLY (DWS)
	RAIN WATER PIPE(RWP)
	110Ø SOIL PIPE(SP)
	63Ø VENT PIPE(VP)
	75Ø WASTE PIPE(WP)
	65Ø FLUSHING WATER SUPPLY PRM LINE(FWS)
	65Ø DOMESTIC WATER SUPPLY PRM LINE (DWS)
	ACCESS DOOR
	LANDING PLATFORM
	100MM SUNKEN + CORECUT REQUIRED
	300MM SUNK

	450MM SUNK
	KHURRA
	RAIN WATER PIPE (RWP)
	RIDGE LINE
	1:200 SLOPE
	DWS PIPE
	FWS PIPE
	65Ø FWS PRM LINE
	65Ø DWS PRM LINE
	BUTTERFLY/BALL VALVE (BFV/BV)
	Y- STARINER
	FLOW DIRECTION
	MOTORISED VALVE(MBV)

#### KEY PLAN



#### GENERAL NOTES:

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R0	TENDER DRAWINGS	05.02.2025
R1		
R2		
R3		
R4		
R5		
R6		

#### PROJECT

NEW ACADEMIC BLOCK  
Gnana Bharathi Main Rd, Teachers  
Colony, Naagarabhaavi, Bengaluru,  
Karnataka 560072

#### CLIENT

NATIONAL LAW SCHOOL OF INDIA  
UNIVERSITY  
Gnana Bharathi Main Rd, Teachers  
Colony,  
Naagarabhaavi, Bengaluru,  
Karnataka 560072

#### STRUCTURAL CONSULTANTS:

RAYS CONSULTING ENGINEERS  
#30, 1st Main, 6th Cross,  
UAS layout, Sanjay Nagar,  
Bangalore – 560094

#### ARCHITECT

HUNDREDHANDS  
9/2, Madras Bank Road,  
Shanthala Nagar, Ashok Nagar,  
Bengaluru,  
Karnataka 560001

#### MEPE AND IBMS CONSULTANTS

LEAD CONSULTANCY &  
ENGINEERING  
SERVICES (INDIA) Pvt.Ltd.  
No.2/29, 1st FLOOR, 80 FEET ROAD,  
HOIMA HANNAH B STAGE, BENGALURU-560038, KARNATAKA,  
Phone: +91 80 42880111, Web: lcsindia.org  
India: Bengaluru | Mumbai | Pune | Gurgaon | Chennai | Hyderabad | Kolkata

#### DRAWING TITLE

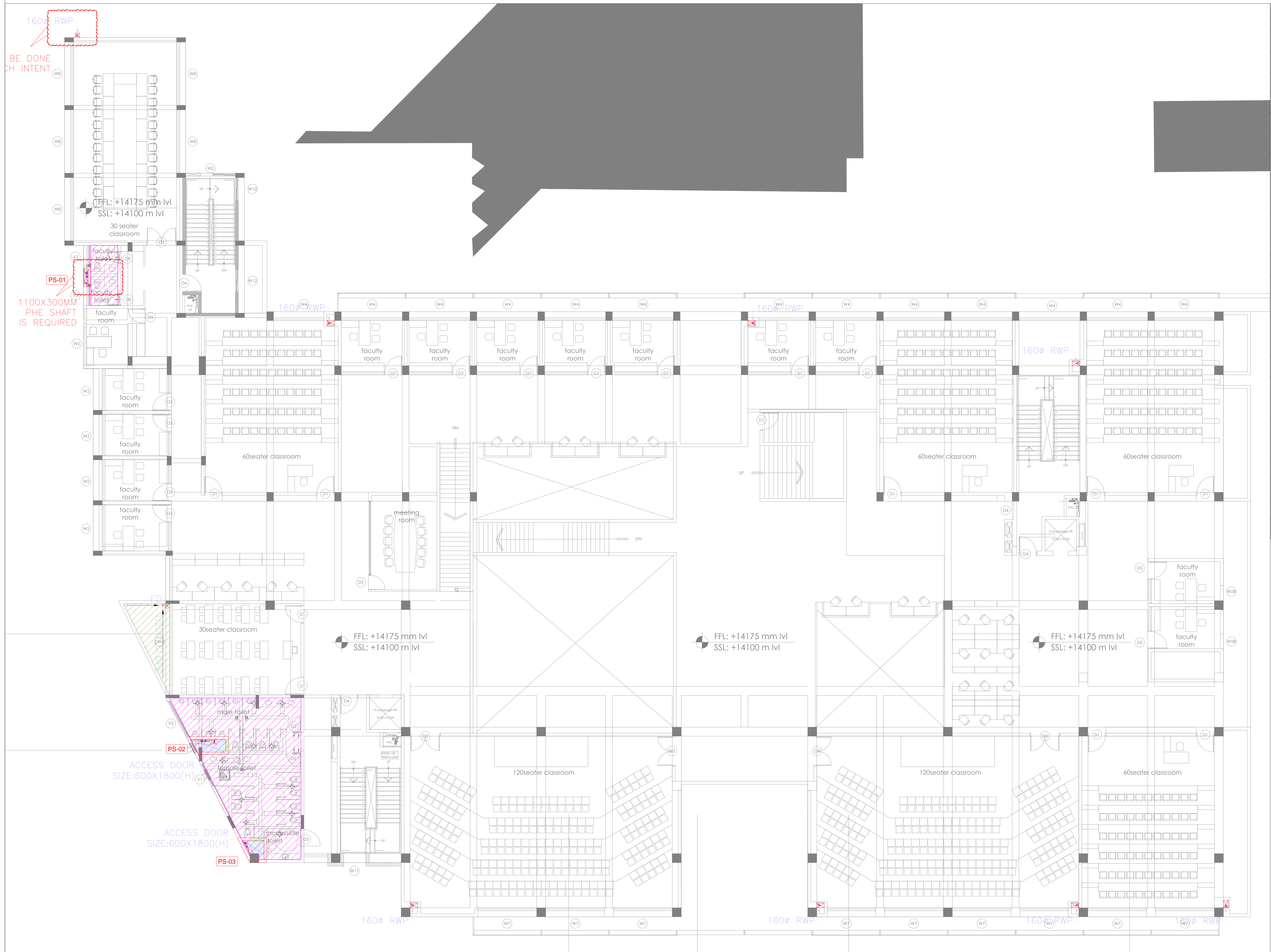
SECOND FLOOR PHE LAYOUT			
DRAWN BY	KGM	DRAWING NUMBER	SCALE
CHECKED	MANJU	LCS-NS-PHE-2F-04	SHEET SIZE
APPROVED	VM	REVISION-R0	DATE

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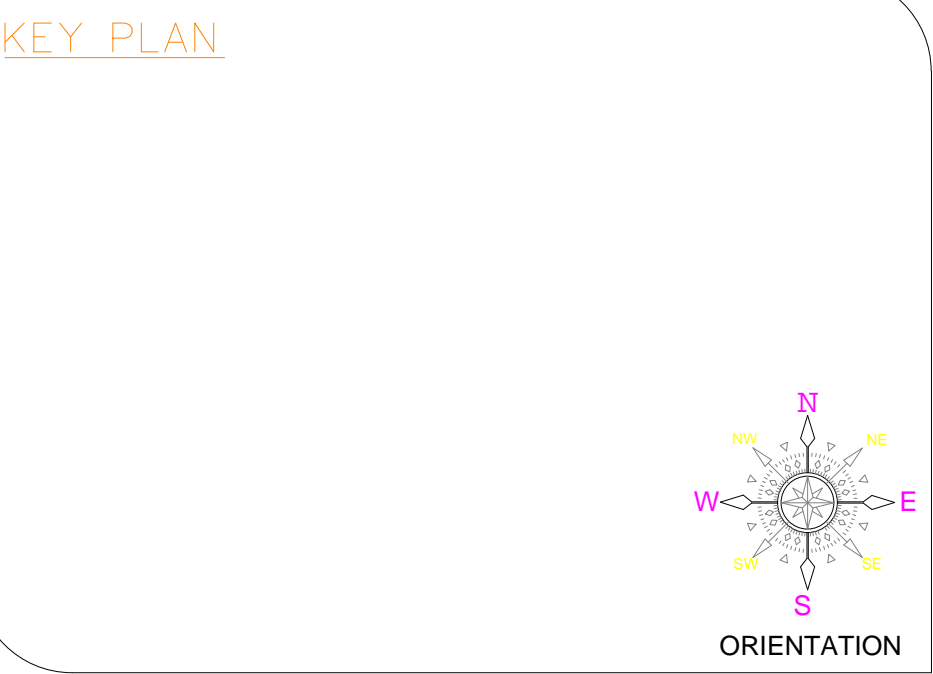
TENDER DRAWINGS

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PHE LEGENDS:-	
SYMBOL	DESCRIPTION
	FLUSHING WATER SUPPLY (FWS)
	DOMESTIC WATER SUPPLY (DWS)
	RAIN WATER PIPE(RWP)
	1100 SOIL PIPE(SP)
	630 VENT PIPE(VP)
	750 WASTE PIPE(WP)
	650 FLUSHING WATER SUPPLY PRM LINE(FWS)
	650 DOMESTIC WATER SUPPLY PRM LINE (DWS)
	ACCESS DOOR
	LANDING PLATFORM
	100MM SUNKEN + CORECUT REQUIRED
	300MM SUNK
	450MM SUNK
	KHURRA
	RAIN WATER PIPE (RWP)
	RIDGE LINE
	1:200 SLOPE
	DWS PIPE
	FWS PIPE
	650 FWS PRM LINE
	650 DWS PRM LINE
	BUTTERFLY/BALL VALVE (BFV/BV)
	Y- STARINER
	FLOW DIRECTION
	MOTORISED VALVE(MBV)



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PROJECT

NEW ACADEMIC BLOCK  
Gnana Bharathi Main Rd, Teachers Colony, Naagarabhaavi, Bengaluru, Karnataka 560072

CLIENT

NATIONAL LAW SCHOOL OF INDIA UNIVERSITY  
Gnana Bharathi Main Rd, Teachers Colony, Naagarabhaavi, Bengaluru, Karnataka 560072

STRUCTURAL CONSULTANTS:

RAYS CONSULTING ENGINEERS  
#30, 1st Main, 6th Cross, UAS layout, Sanjay Nagar, Bangalore – 560094

ARCHITECT

HUNDREDHANDS  
9/2, Madras Bank Road, Shanthala Nagar, Ashok Nagar, Bengaluru, Karnataka 560001

MEPF AND IBMS CONSULTANTS

LEAD CONSULTANCY & ENGINEERING SERVICES (INDIA) Pvt.Ltd.  
No.2/29, 1st FLOOR, 80 FEET ROAD, HOIMA HAZAR II STAGE, BENGALURU-560038, KARNATAKA, Phone: +91 80 42580111, Web:lsind.org  
India: Bengaluru (Mumbai | Pune | Gurgaon | Chennai | Hyderabad) | Kolkata

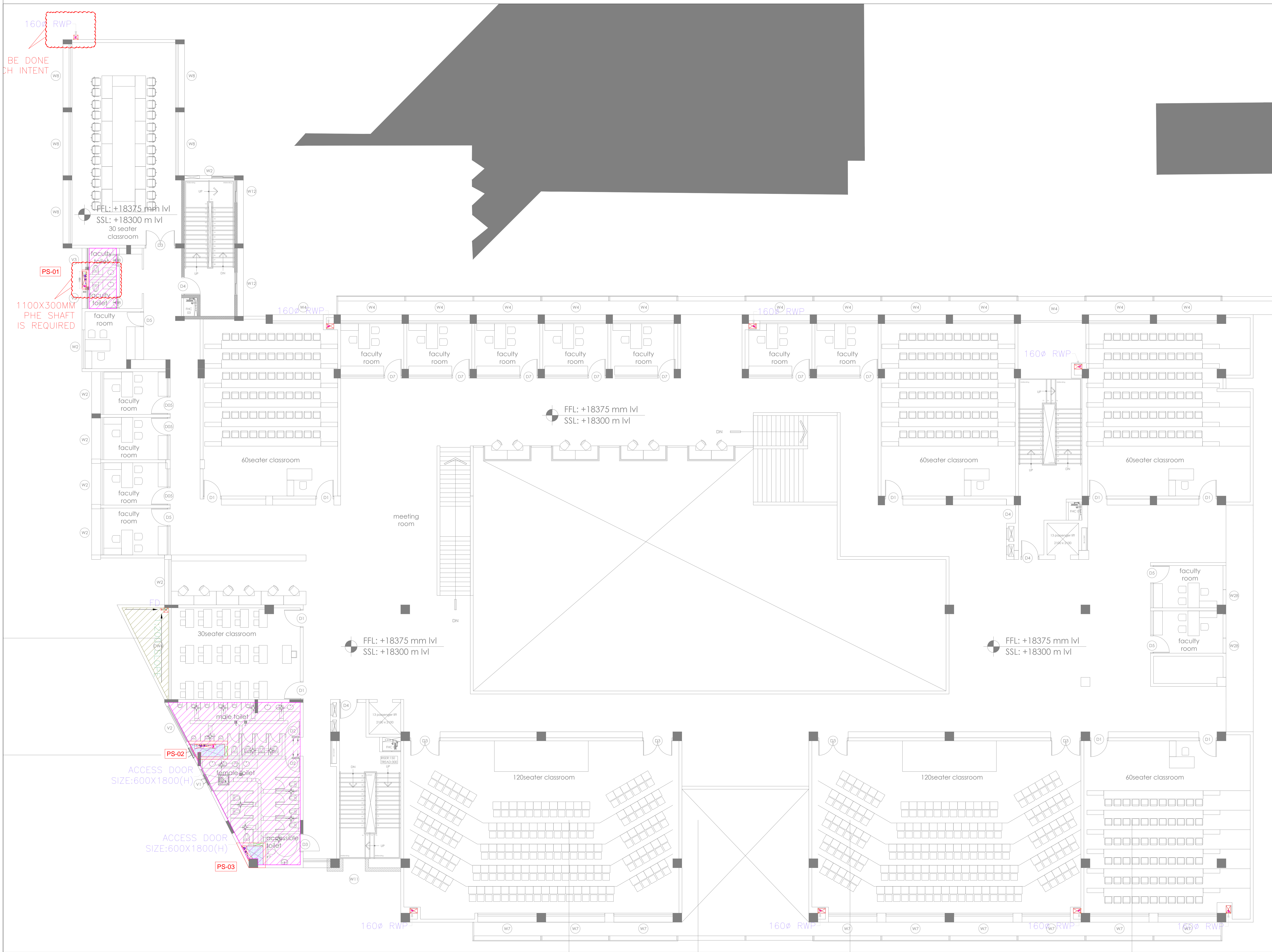
DRAWING TITLE			
THIRD FLOOR PHE LAYOUT			
DRAWN BY	KGM	DRAWING NUMBER	SCALE
CHECKED	MANJU	LCES-NLS-PHE-3F-05	SHEET SIZE
APPROVED	VM	REVISION-R0	DATE

DRAWING ISSUED FOR

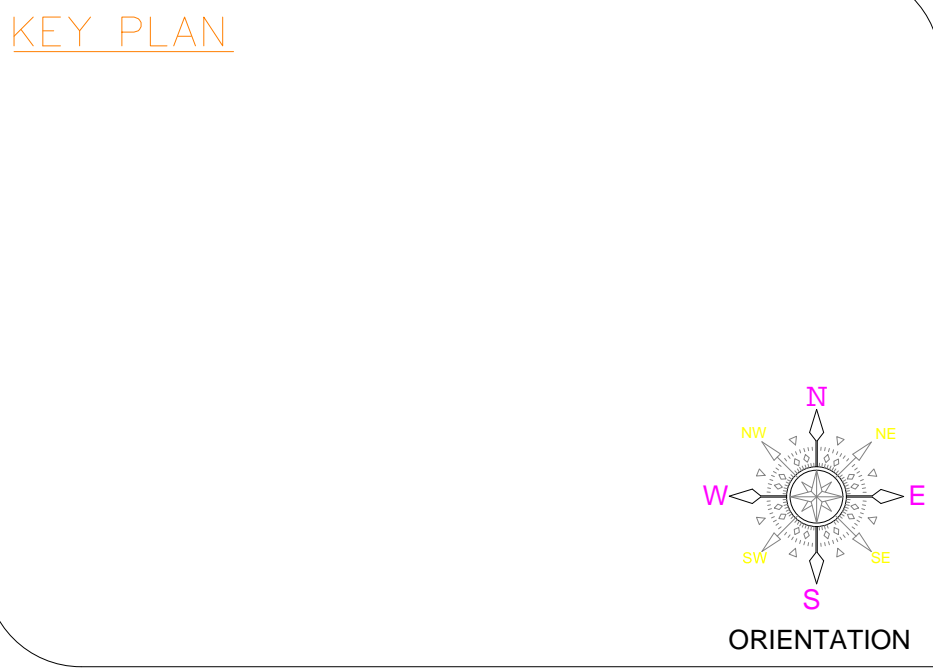
TENDER DRAWINGS

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USE OF THIS DRAWING FOR ANY PURPOSE OTHER THAN THAT MENTIONED TO BE DONE ONLY AFTER THEIR PRIOR APPROVAL





PHE LEGENDS:-	
SYMBOL	DESCRIPTION
	FLUSHING WATER SUPPLY (FWS)
	DOMESTIC WATER SUPPLY (DWS)
	RAIN WATER PIPE(RWP)
	110Ø SOIL PIPE(SP)
	63Ø VENT PIPE(VP)
	75Ø WASTE PIPE(WP)
	65Ø FLUSHING WATER SUPPLY PRM LINE(FWS)
	65Ø DOMESTIC WATER SUPPLY PRM LINE (DWS)
	ACCESS DOOR
	LANDING PLATFORM
	100MM SUNKEN + CORECUT REQUIRED
	300MM SUNK
	450MM SUNK
	KHURRA
	RAIN WATER PIPE (RWP)
	RIDGE LINE
	1:200 SLOPE
	DWS PIPE
	FWS PIPE
	65Ø FWS PRM LINE
	65Ø DWS PRM LINE
	BUTTERFLY/BALL VALVE (BFV/BV)
	Y- STARINER
	FLOW DIRECTION
	MOTORISED VALVE(MBV)



- GEENERAL NOTES:-
1. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTURAL, STRUCTURAL AND OTHER SERVICES DRAWINGS.
  2. ANY DISCREPANCY NOTICED SHALL BE BROUGHT TO THE ATTENTION OF THE CONSULTANTS AND RESOLVED PRIOR TO PROCUREMENT / EXECUTION OF WORKS.
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REV. NO.	REVISION DESCRIPTION	DATE
R0	TENDER DRAWINGS	05.02.2025
R1		
R2		
R3		
R4		
R5		
R6		

PROJECT

NEW ACADEMIC BLOCK  
Gnana Bharathi Main Rd, Teachers Colony, Naagarabhaavi, Bengaluru, Karnataka 560072

CLIENT

NATIONAL LAW SCHOOL OF INDIA UNIVERSITY  
Gnana Bharathi Main Rd, Teachers Colony, Naagarabhaavi, Bengaluru, Karnataka 560072

STRUCTURAL CONSULTANTS:

RAYS CONSULTING ENGINEERS  
#30, 1st Main, 6th Cross, UAS layout, Sanjay Nagar, Bangalore – 560094

ARCHITECT

HUNDREDHANDS  
9/2, Madras Bank Road, Shanthala Nagar, Ashok Nagar, Bengaluru, Karnataka 560001

MEPE AND IBMS CONSULTANTS

LEAD CONSULTANCY & ENGINEERING SERVICES (INDIA) Pvt.Ltd.  
No.27/29, 1st FLOOR, 80 FEET ROAD, HOIMA HANNAH B STAGE, BENGALURU-560038, KARNATAKA, India  
Phone: +91 80 42880111, Web: lcsindia.org  
India Bengaluru Mumbai Pune Gurgaon Chennai Hyderabad Kolkata

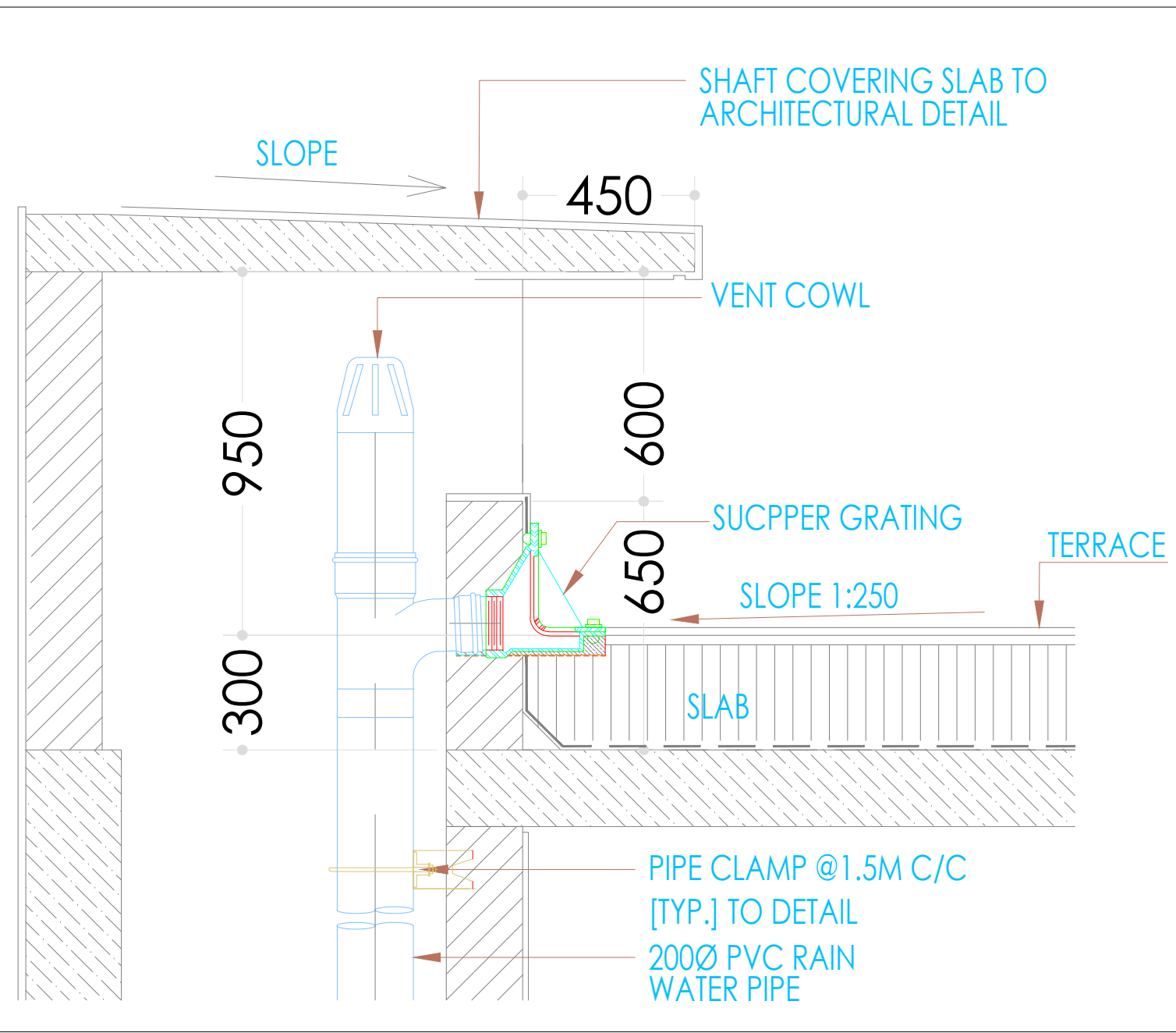
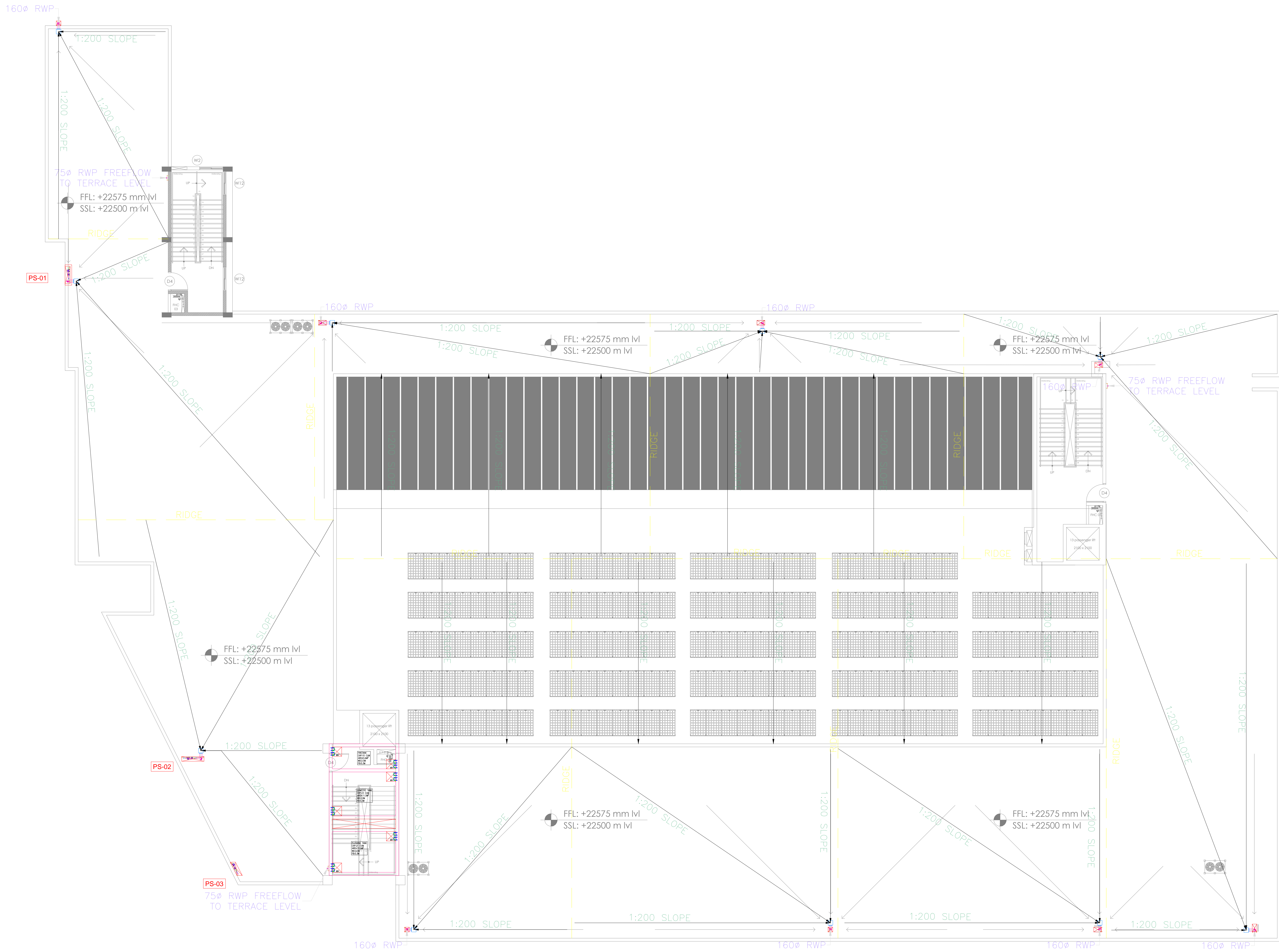
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FOURTH FLOOR PHE LAYOUT			
DRAWN BY	KGM	DRAWING NUMBER	SCALE
CHECKED	MANJU	LCS-S-NLS-PHE-4F-06	SHEET SIZE
APPROVED	VM	REVISION-R0	DATE
			05.02.2025

DRAWING ISSUED FOR

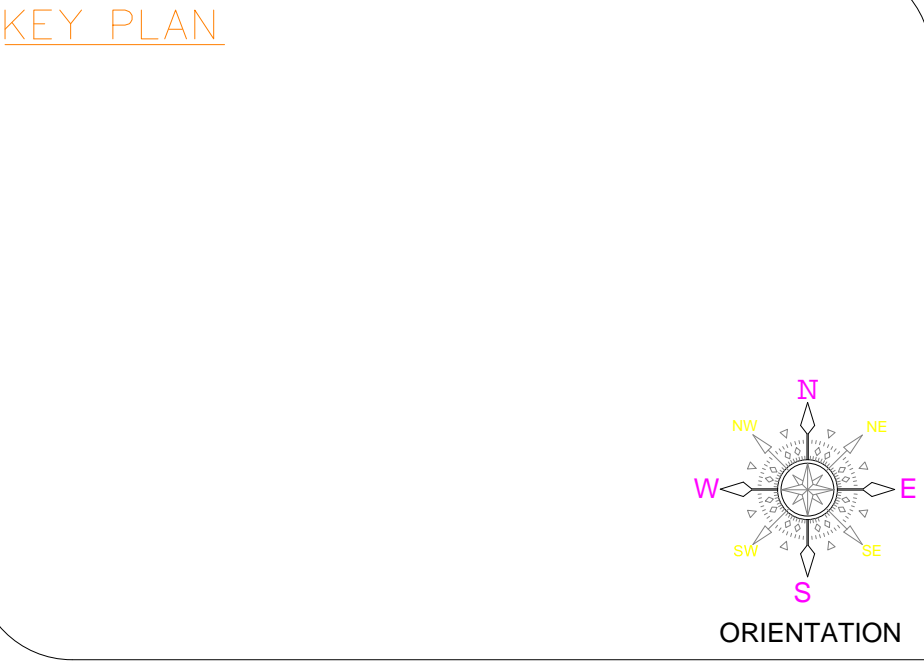
TENDER DRAWINGS

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PHE LEGENDS:-	
SYMBOL	DESCRIPTION
	FLUSHING WATER SUPPLY (FWS)
	DOMESTIC WATER SUPPLY (DWS)
	RAIN WATER PIPE(RWP)
	110Ø SOIL PIPE(SP)
	63Ø VENT PIPE(VP)
	75Ø WASTE PIPE(WP)
	65Ø FLUSHING WATER SUPPLY PRM LINE(FWS)
	65Ø DOMESTIC WATER SUPPLY PRM LINE (DWS)
	ACCESS DOOR
	LANDING PLATFORM
	100MM SUNK + CORECUT REQUIRED
	300MM SUNK
	450MM SUNK
	KHURRA
	RAIN WATER PIPE (RWP)
	RIDGE LINE
	1:200 SLOPE
	DWS PIPE
	FWS PIPE
	65Ø FWS PRM LINE
	65Ø DWS PRM LINE
	BUTTERFLY/BALL VALVE (BFV/BV)
	Y- STARINER
	FLOW DIRECTION
	MOTORISED VALVE(MBV)



- GEENERAL NOTES:**
1. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTURAL, STRUCTURAL AND OTHER SERVICES DRAWINGS.
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REV. NO.	REVISION DESCRIPTION	DATE
R0	TENDER DRAWINGS	05.02.2025
R1		
R2		
R3		
R4		
R5		
R6		

**PROJECT**

NEW ACADEMIC BLOCK  
Gnana Bharathi Main Rd, Teachers Colony, Naagarabhaavi, Bengaluru, Karnataka 560072

**CLIENT**

NATIONAL LAW SCHOOL OF INDIA UNIVERSITY  
Gnana Bharathi Main Rd, Teachers Colony, Naagarabhaavi, Bengaluru, Karnataka 560072

**STRUCTURAL CONSULTANTS:**

RAYS CONSULTING ENGINEERS  
#30, 1st Main, 6th Cross, UAS layout, Sanjay Nagar, Bangalore – 560094

**ARCHITECT**

HUNDREDHANDS  
9/2, Madras Bank Road, Shanthalu Nagar, Ashok Nagar, Bengaluru, Karnataka 560001

**MEPE AND IBMS CONSULTANTS**

LEAD CONSULTANCY & ENGINEERING SERVICES (INDIA) Pvt.Ltd.  
No.27/29, 1st FLOOR, 80 FEET ROAD, HOPIA HANGAR III STAGE, BENGALURU-560038, KARNATAKA, India  
Phone: +91 80 42980111, Web: lcsindia.org  
India Bengaluru (Mumbai Pune Gurgaon Chennai Hyderabad) Kolkata

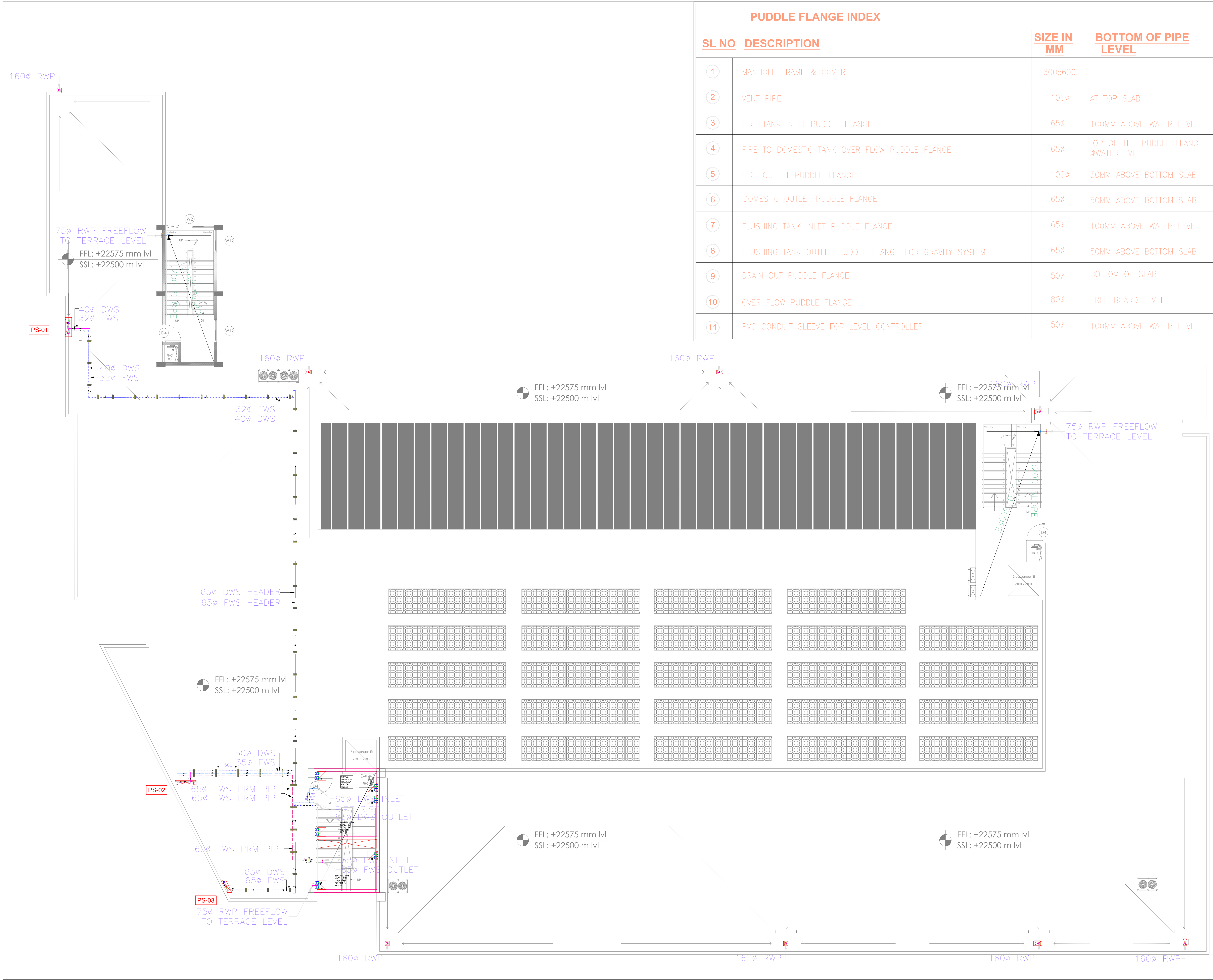
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TERRACE FLOOR RAIN WATER DISPOSAL SYSTEM			
DRAWN BY	KGM	DRAWING NUMBER	SCALE
CHECKED	MANJU	LCS-NS-PHE-TF-07	1:100
APPROVED	VM	REVISION-R0	SHEET SIZE A2
		DATE	05.02.2025

**DRAWING ISSUED FOR**

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PUDDLE FLANGE INDEX			
SL NO	DESCRIPTION	SIZE IN MM	BOTTOM OF PIPE LEVEL
1	MANHOLE FRAME & COVER	600x600	
2	VENT PIPE	100ø	AT TOP SLAB
3	FIRE TANK INLET PUDDLE FLANGE	65ø	100MM ABOVE WATER LEVEL
4	FIRE TO DOMESTIC TANK OVER FLOW PUDDLE FLANGE	65ø	TOP OF THE PUDDLE FLANGE @WATER LVL
5	FIRE OUTLET PUDDLE FLANGE	100ø	50MM ABOVE BOTTOM SLAB
6	DOMESTIC OUTLET PUDDLE FLANGE	65ø	50MM ABOVE BOTTOM SLAB
7	FLUSHING TANK INLET PUDDLE FLANGE	65ø	100MM ABOVE WATER LEVEL
8	FLUSHING TANK OUTLET PUDDLE FLANGE FOR GRAVITY SYSTEM	65ø	50MM ABOVE BOTTOM SLAB
9	DRAIN OUT PUDDLE FLANGE	50ø	BOTTOM OF SLAB
10	OVER FLOW PUDDLE FLANGE	80ø	FREE BOARD LEVEL
11	PVC CONDUIT SLEEVE FOR LEVEL CONTROLLER	50ø	100MM ABOVE WATER LEVEL

PHE LEGENDS:-	
SYMBOL	DESCRIPTION
	FLUSHING WATER SUPPLY (FWS)
	DOMESTIC WATER SUPPLY (DWS)
	RAIN WATER PIPE(RWP)
	110ø SOIL PIPE(SP)
	63ø VENT PIPE(VP)
	75ø WASTE PIPE(WP)
	65ø FLUSHING WATER SUPPLY PRM LINE(FWS)
	65ø DOMESTIC WATER SUPPLY PRM LINE (DWS)
	ACCESS DOOR
	LANDING PLATFORM
	100MM SUNKEN + CORECUT REQUIRED
	300MM SUNK
	450MM SUNK
	KHURRA
	RAIN WATER PIPE (RWP)
	RIDGE LINE
	1:200 SLOPE
	DWS PIPE
	FWS PIPE
	65ø FWS PRM LINE
	65ø DWS PRM LINE
	BUTTERFLY/BALL VALVE (BFV/BV)
	Y- STARINER
	FLOW DIRECTION
	MOTORISED VALVE(MBV)

KEY PLAN

- GEENERAL NOTES:-
1. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTURAL, STRUCTURAL AND OTHER SERVICES DRAWINGS.

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REV. NO.	REVISION DESCRIPTION	DATE
R0	TENDER DRAWINGS	05.02.2025
R1		
R2		
R3		
R4		
R5		
R6		

PROJECT

NEW ACADEMIC BLOCK  
Gnana Bharathi Main Rd, Teachers Colony, Naagarabhaavi, Bengaluru, Karnataka 560072

CLIENT

NATIONAL LAW SCHOOL OF INDIA UNIVERSITY  
Gnana Bharathi Main Rd, Teachers Colony, Naagarabhaavi, Bengaluru, Karnataka 560072

STRUCTURAL CONSULTANTS:-

RAYS CONSULTING ENGINEERS  
#30, 1st Main, 6th Cross, UAS layout, Sanjay Nagar, Bangalore – 560094

ARCHITECT

HUNDREDHANDS  
9/2, Madras Bank Road, Shanthala Nagar, Ashok Nagar, Bengaluru, Karnataka 560001

MEPE AND IBMS CONSULTANTS

LEAD CONSULTANCY & ENGINEERING SERVICES (INDIA) Pvt.Ltd.  
No.2/29, 1st FLOOR, 80 FEET ROAD, HOIPA HANGAR B STAGE, BENGALURU-560038, KARNATAKA, Phone: +91 80 42980111, Web:lsind.org  
India: Bengaluru | Mumbai | Pune | Gurgaon | Chennai | Hyderabad | Kolkata

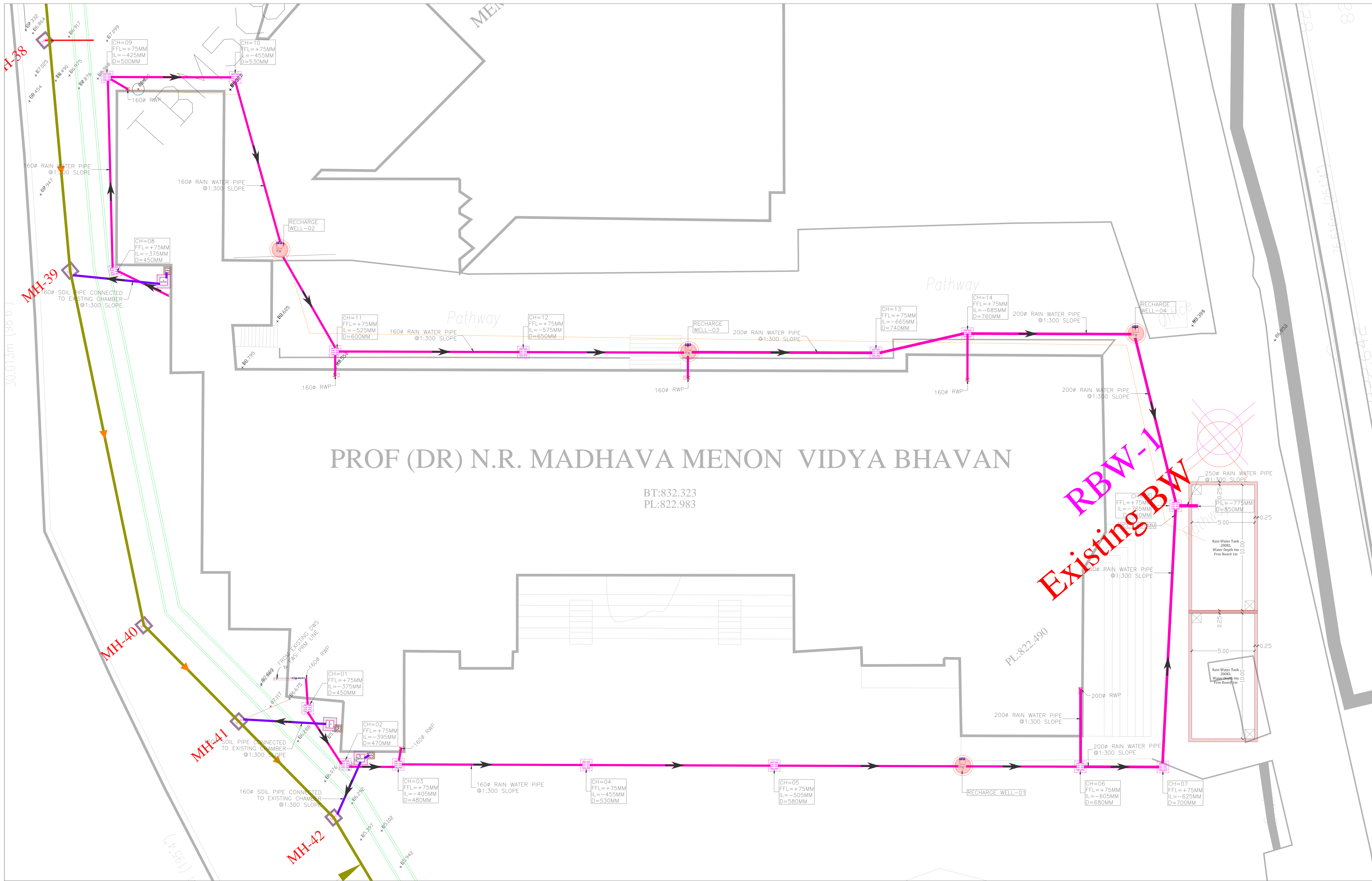
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TERRACE FLOOR WATER SUPPLY LAYOUT				
DRAWN BY	KGM	DRAWING NUMBER	SCALE	1:100
CHECKED	MANJU	LCES-NLS-PHE-TF-08	SHEET SIZE	A2
APPROVED	VM	REVISION-R0	DATE	05.02.2025

DRAWING ISSUED FOR

TENDER DRAWINGS

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PHE LEGENDS:-	
SYMBOL	DESCRIPTION
	250ø RAIN WATER FIRST FLUSH PIPE(RWP)
IL	PIPE INVERT LEVEL
CL	PIPE CONNECTING LEVEL
D	DEPTH
FFL	FINISH FLOOR LEVEL
	INCEPTION CHAMBER
	GULLY TRAP
	CATCH BASIN (CB)
	RECHARGE WELL
	FLOW DIRECTION
	DWC PIPE
	160ø SOIL PIPE

KEY PLAN

ORIENTATION

- GEENERAL NOTES:
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REV. NO.	REVISION DESCRIPTION	DATE
R0	TENDER DRAWINGS	05.02.2025
R1		
R2		
R3		
R4		
R5		
R6		

PROJECT

NEW ACADEMIC BLOCK  
Gnana Bharathi Main Rd, Teachers Colony, Naagarabhaavi, Bengaluru, Karnataka 560072

CLIENT

NATIONAL LAW SCHOOL OF INDIA UNIVERSITY  
Gnana Bharathi Main Rd, Teachers Colony, Naagarabhaavi, Bengaluru, Karnataka 560072

STRUCTURAL CONSULTANTS:

RAYS CONSULTING ENGINEERS  
#30, 1st Main, 6th Cross, UAS layout, Sanjay Nagar, Bangalore – 560094

ARCHITECT

HUNDREDHANDS  
9/2, Madras Bank Road, Shanthala Nagar, Ashok Nagar, Bengaluru, Karnataka 560001

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No.6729, 1st. FLOOR, 88 FEET ROAD, INDIRA NAGAR III STAGE, BENGALURU-560038, KARNATAKA.  
Phone: +91 80 42980111, Website:ind.org  
India: Bengaluru | Mumbai | Pune | Gurgaon | Chennai | Hyderabad | Kolkata

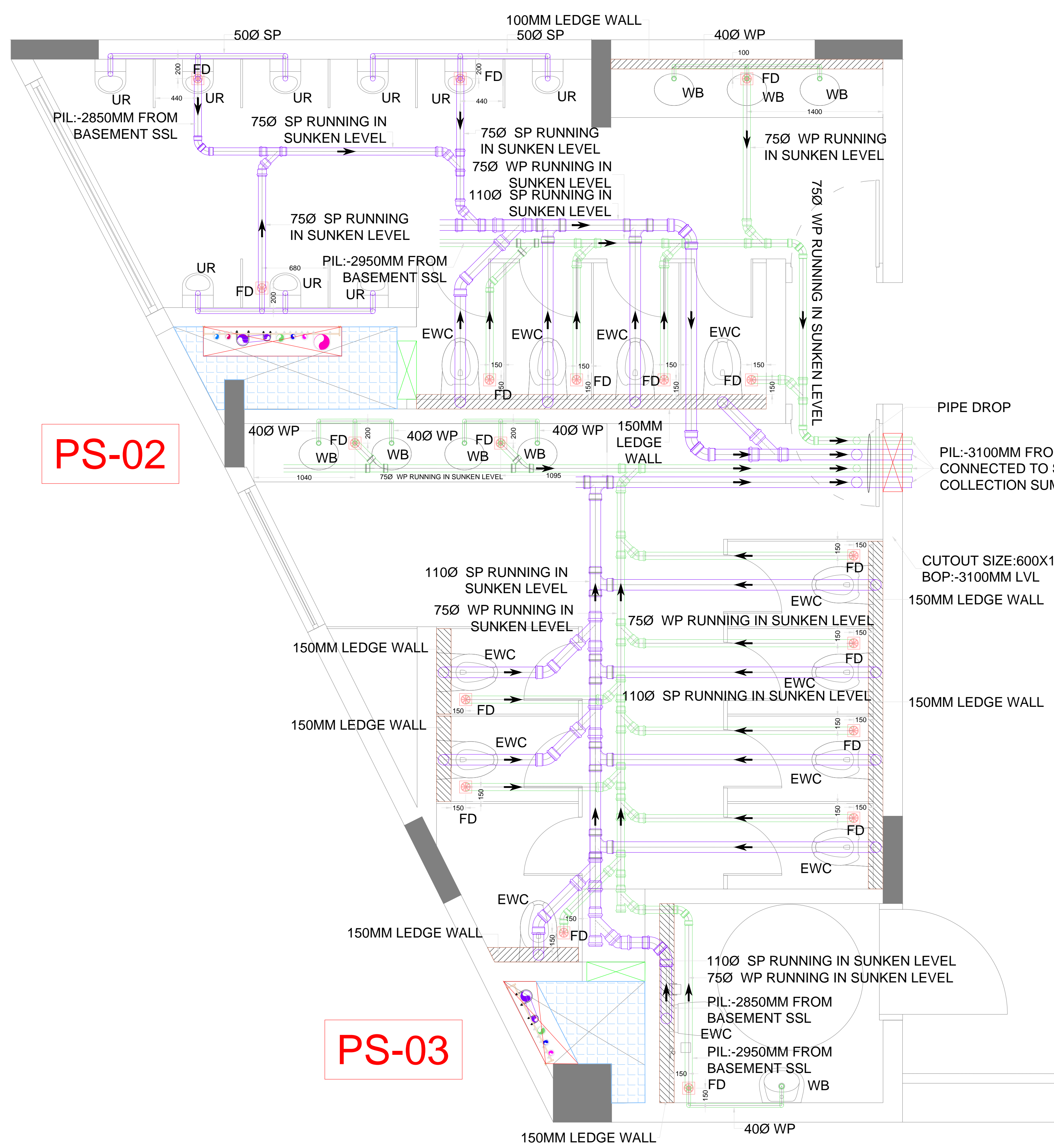
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SITE PLAN EXTERNAL PHE LAYOUT			
DRAWN BY	KGM	DRAWING NUMBER	LCES-NLS-PHE-SP-01
CHECKED	MANJU	SCALE	SHEET SIZE
APPROVED	VM	REVISION-R0	DATE
			05.02.2025

DRAWING ISSUED FOR

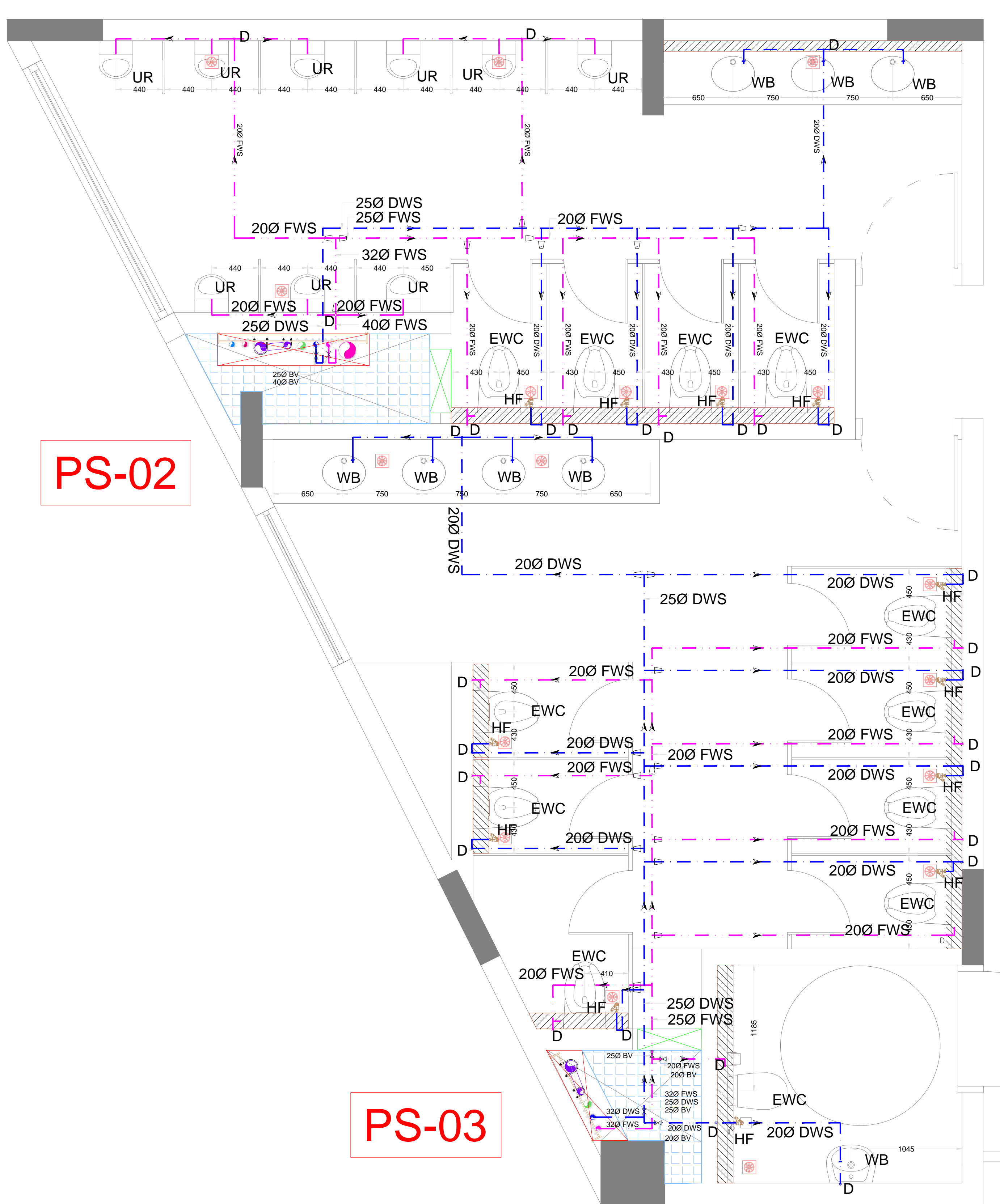
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BASEMENT FLOOR TOILET DRAINAGE LAYOUT



BASEMENT FLOOR TOILET WATER SUPPLY LAYOUT

PHE LEGENDS:-	
SYMBOL	DESCRIPTION
	SOIL PIPE(SP)
	WASTE PIPE(WP)
	DOMESTIC WATER SUPPLY (DWS)
	FLUSHING WATER SUPPLY (FWS)
	PLUMBING SHAFT
	FLOOR CLEAN OUT
	END CAP
	EUROPEAN WATER CLOSET (EWC)
	URINALS (UR)
	WASH BASIN (WB)
	HEALTH FAUCET (HF)
	FLOOR DRAIN (FD)
	LEDGE WALL
	FLOW DIRECTION
	FLUSHING WATER SUPPLY (FWS)
	DOMESTIC WATER SUPPLY (DWS)
	1600 RAIN WATER PIPE(RWP)
	1100 SOIL PIPE(SP)
	630 VENT PIPE(VP)
	750 WASTE PIPE(WP)
	FLUSHING WATER SUPPLY PRM LINE(FWS)
	DOMESTIC WATER SUPPLY PRM LINE (DWS)
	ACCESS DOOR
	GULLY TRAP (GT)
	INSPECTION CHAMBER (IC)

KEY PLAN

ORIENTATION

- GENERAL NOTES:
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REV. NO.	REVISION DESCRIPTION	DATE
R0	TENDER DRAWINGS	05.02.2025
R1		
R2		
R3		
R4		
R5		
R6		

PROJECT

JSW ACADEMIC BLOCK - NLSIU

NEW ACADEMIC BLOCK  
Gnana Bharathi Main Rd, Teachers Colony, Naagarabhaavi, Bengaluru, Karnataka 560072

CLIENT

NATIONAL LAW SCHOOL OF INDIA UNIVERSITY

Gnana Bharathi Main Rd, Teachers Colony, Naagarabhaavi, Bengaluru, Karnataka 560072

STRUCTURAL CONSULTANTS:

RAYS CONSULTING ENGINEERS

#30, 1st Main, 6th Cross, UAS layout, Sanjay Nagar, Bangalore – 560094

ARCHITECT

HUNDREDHANDS

7/2, Madras Bank Road, Shanthihalla Nagar, Ashok Nagar, Bengaluru, Karnataka 560001

MEPE AND IBMS CONSULTANTS

LEAD CONSULTANCY & ENGINEERING SERVICES (INDIA) Pvt.Ltd.

No.2729, 1st FLOOR, 80 FEET ROAD, INDIRA NAGAR III STAGE, BENGALURU-560038, KARNATAKA.  
Phone: +91 80 42980111, Web: lcsindia.org  
India: Bengaluru | Mumbai | Pune | Gurgaon | Chennai | Hyderabad | Kolkata

DRAWING TITLE			
BASEMENT FLOOR ETD DRAWING			
DRAWN BY	KGM	DRAWING NUMBER	SCALE
CHECKED	MANJU	LCS-NLS-PHE-ETD-12	SHEET SIZE
APPROVED	VM	REVISION-R0	DATE
			05.02.2025

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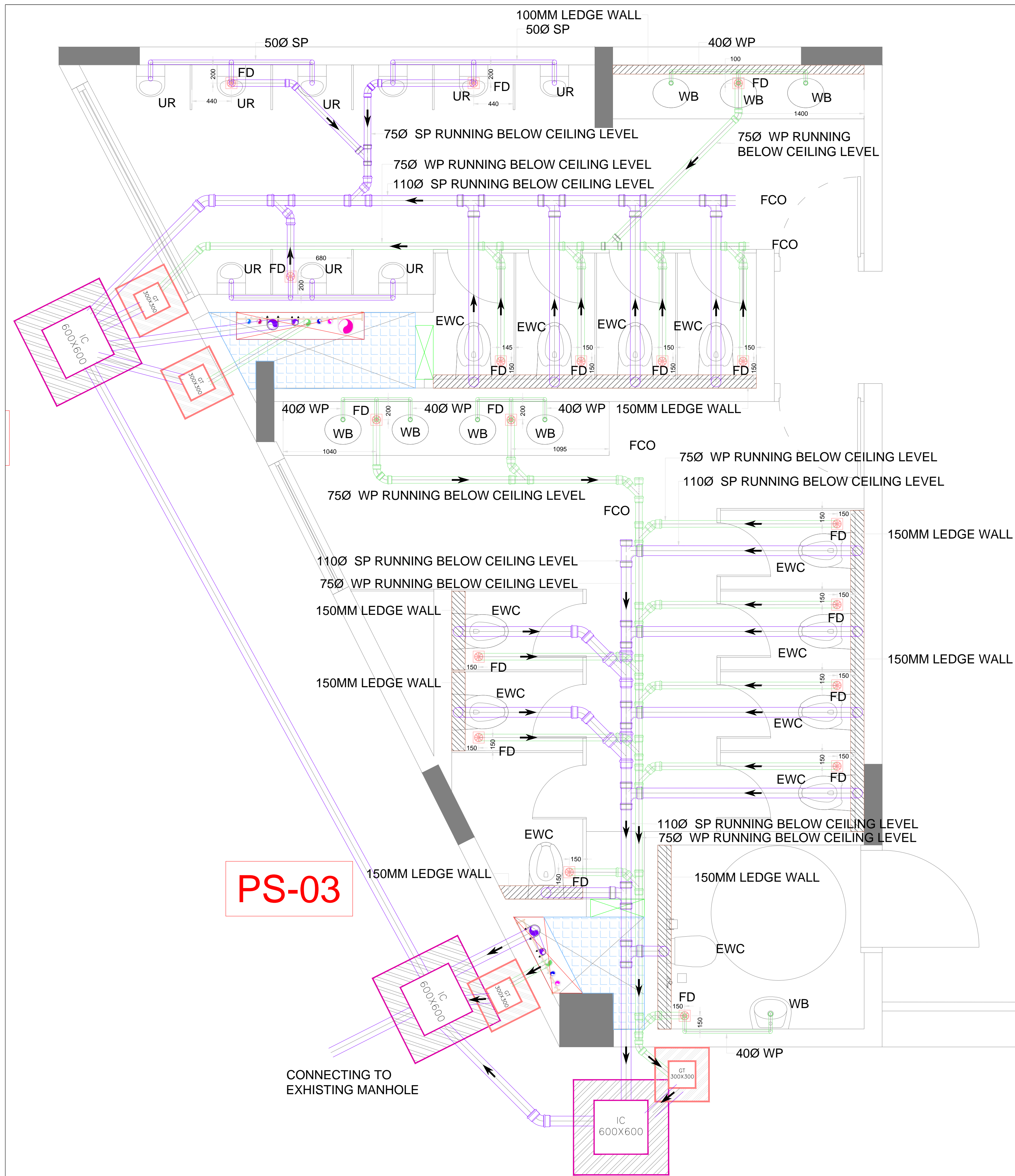
TENDER DRAWINGS

LEAD

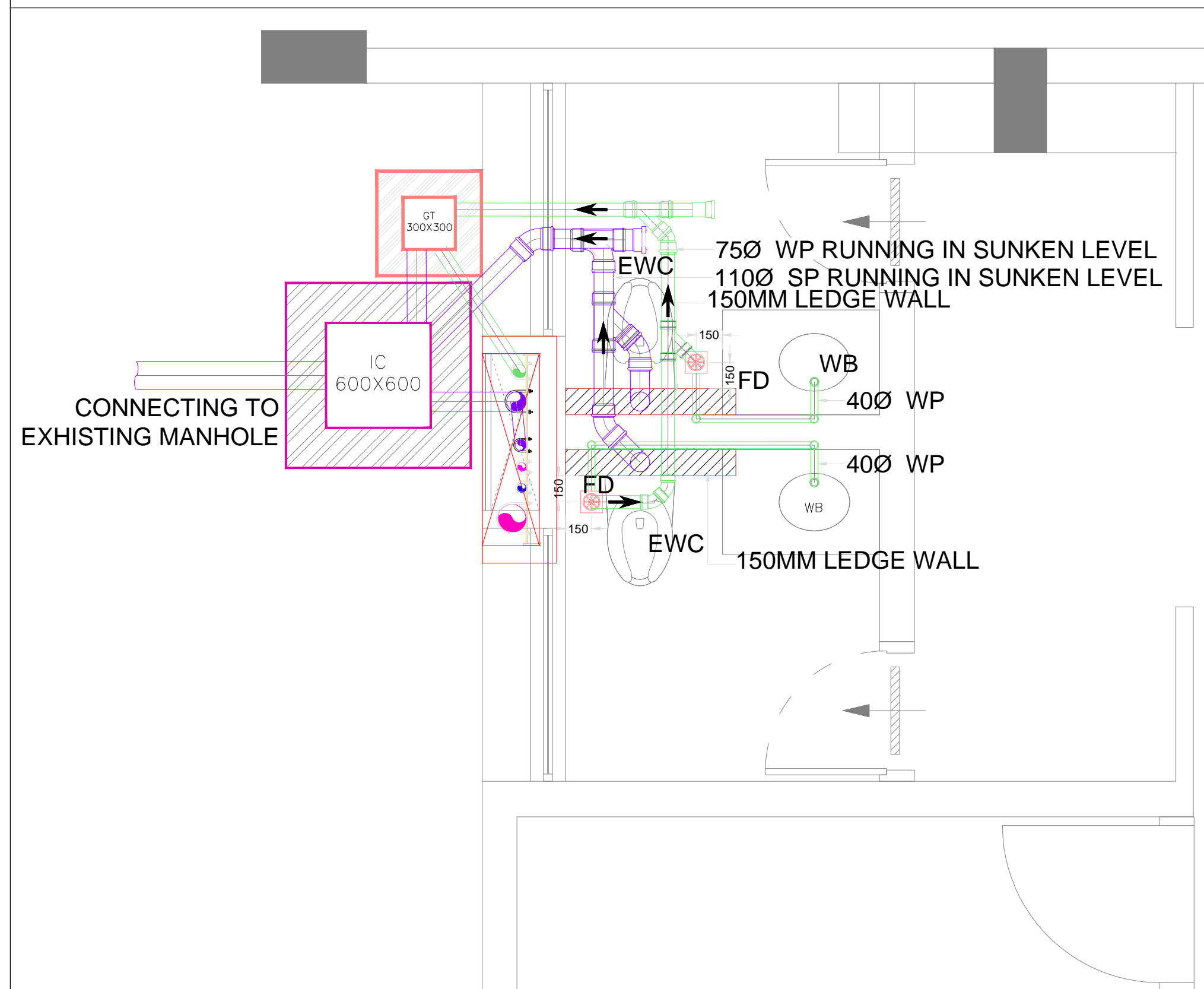
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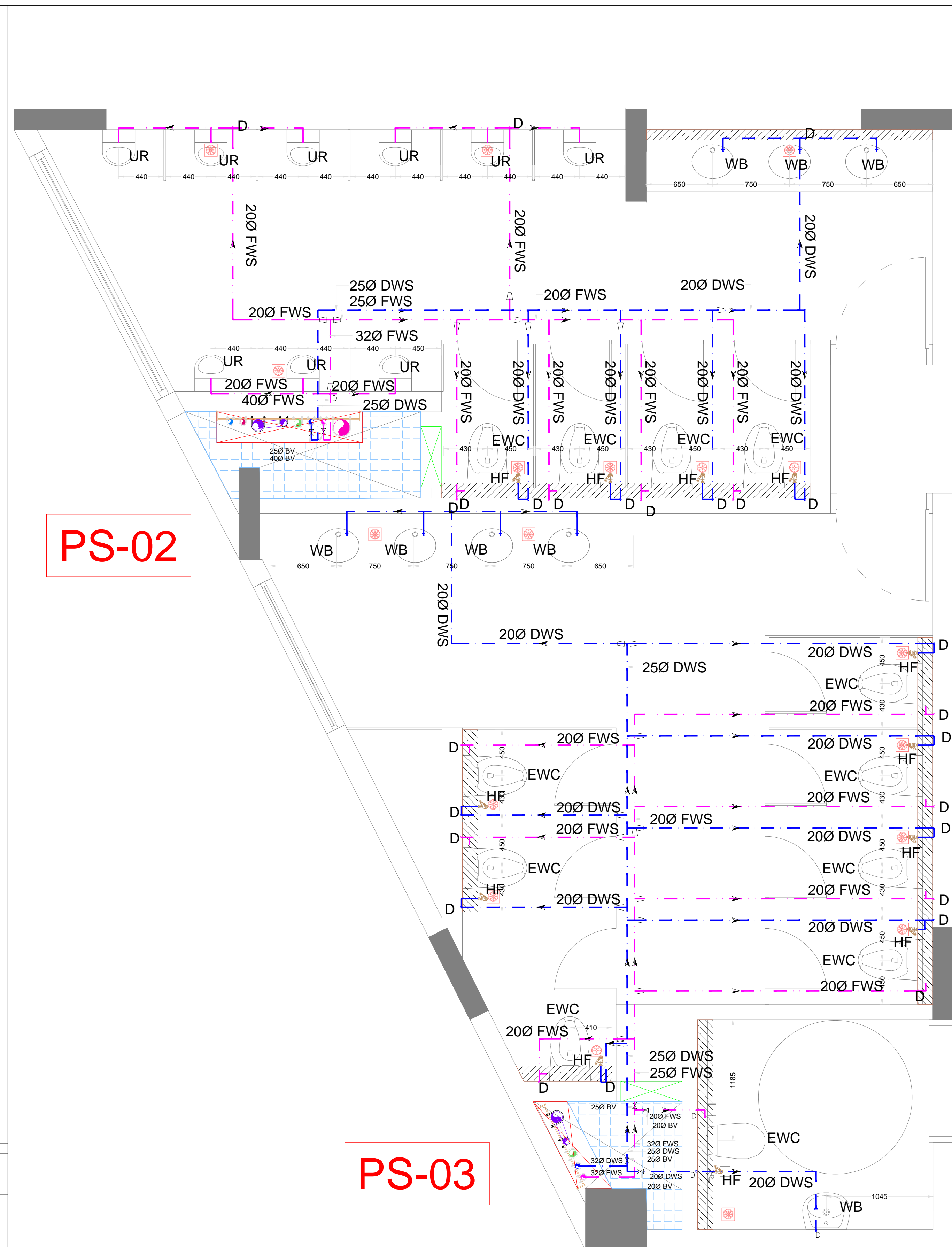




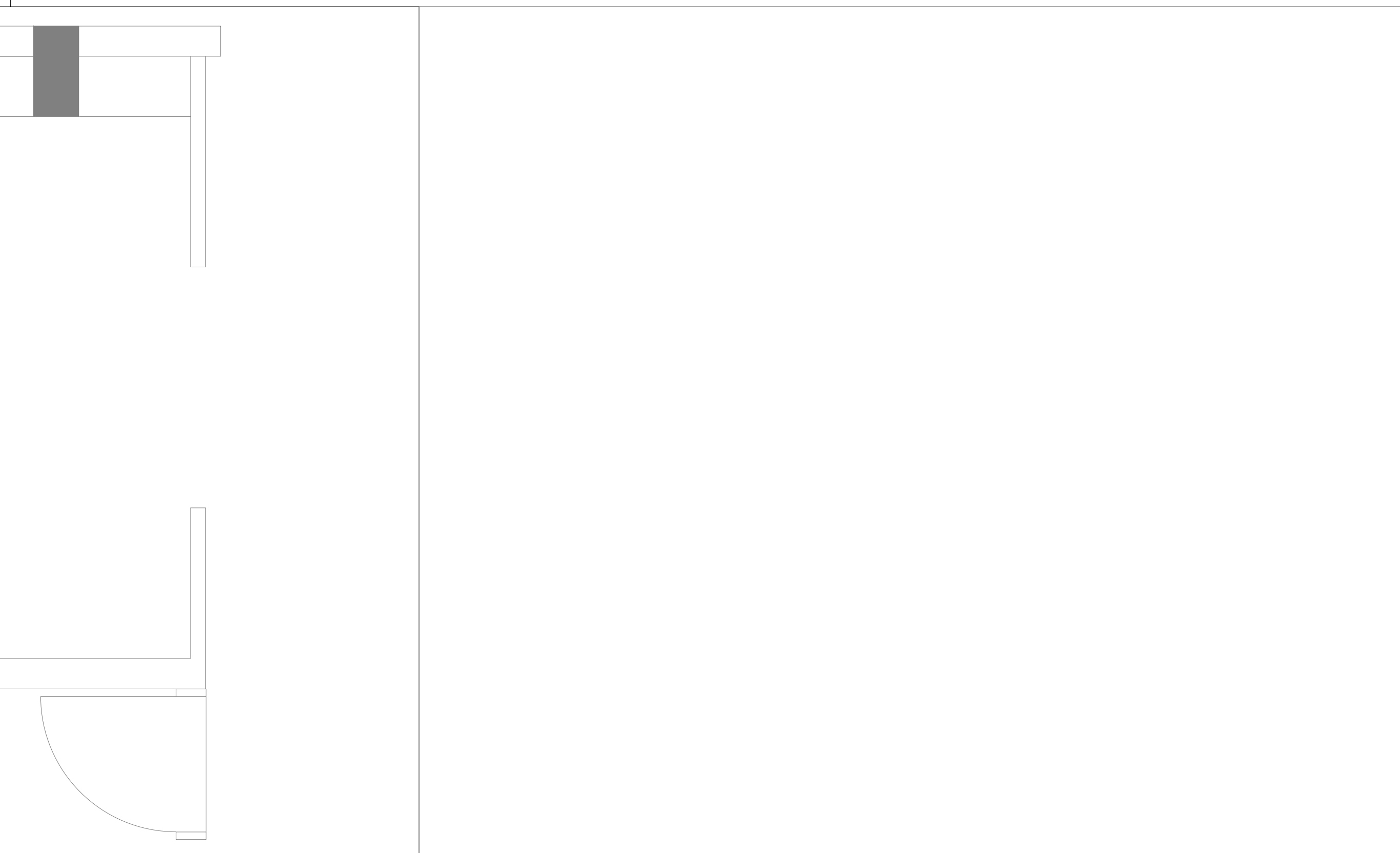
GROUND FLOOR TOILET DRAINAGE LAYOUT



GROUND FLOOR TOILET DRAINAGE LAYOUT

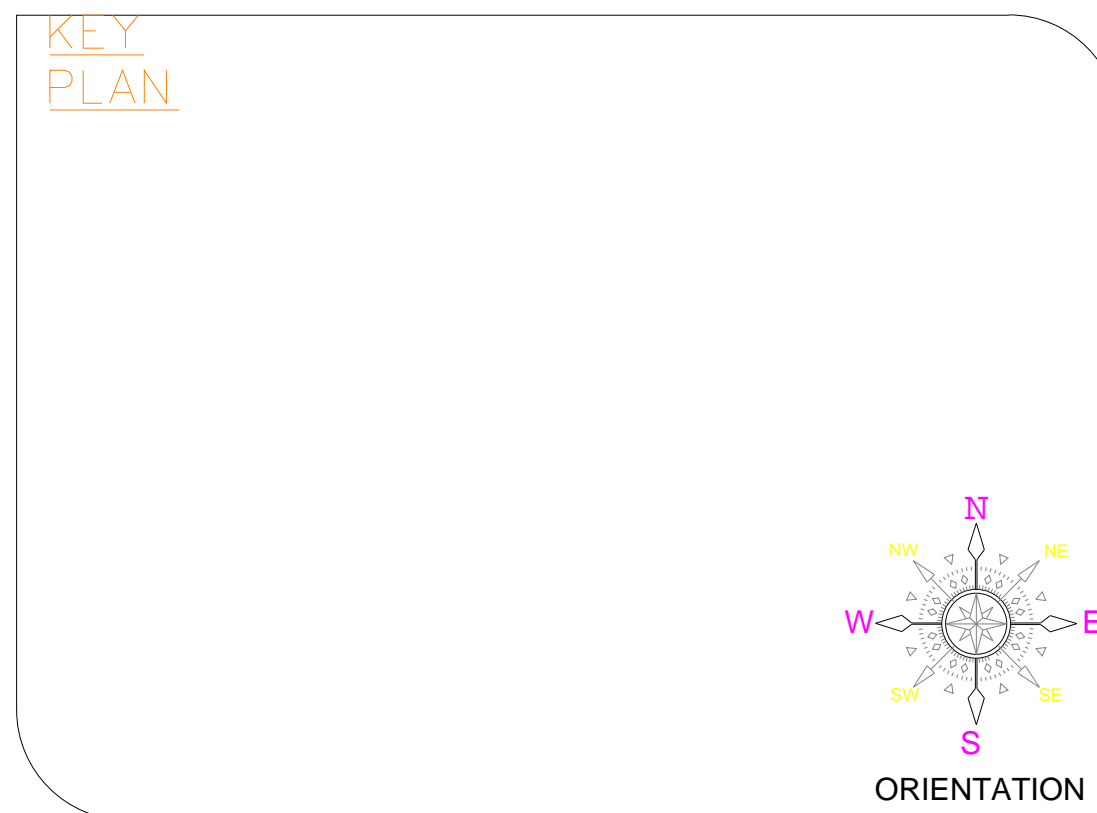


GROUND FLOOR TOILET WATER SUPPLY LAYOUT



GROUND FLOOR TOILET WATER SUPPLY LAYOUT

PHE LEGENDS:-	
SYMBOL	DESCRIPTION
	SOIL PIPE(SP)
	WASTE PIPE(WP)
	DOMESTIC WATER SUPPLY (DWS)
	FLUSHING WATER SUPPLY (FWS)
	PLUMBING SHAFT
	FLOOR CLEAN OUT
	END CAP
	EUROPIAN WATER CLOSET (EWC)
	URINALS (UR)
	WASH BASIN (WB)
	HEALTH FAUCET (HF)
	FLOOR DRAIN (FD)
	LEDGE WALL
	FLOW DIRECTION
	FLUSHING WATER SUPPLY (FWS)
	DOMESTIC WATER SUPPLY (DWS)
	1600 RAIN WATER PIPE(RWP)
	1100 SOIL PIPE(SP)
	630 VENT PIPE(VP)
	750 WASTE PIPE(WP)
	FLUSHING WATER SUPPLY PRM LINE(FWS)
	DOMESTIC WATER SUPPLY PRM LINE (DWS)
	ACCESS DOOR
	GULLY TRAP (GT)
	INSPECTION CHAMBER (IC)



- GENERAL NOTES:**
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REV. NO.	REVISION DESCRIPTION	DATE
R0	TENDER DRAWINGS	05.02.2025
R1		
R2		
R3		
R4		
R5		
R6		

**PROJECT** **JSW ACADEMIC BLOCK - NLSIU**  
NEW ACADEMIC BLOCK  
Ghana Bharathi Main Rd, Teachers Colony, Naagarabhaavi, Bengaluru, Karnataka 560072

**CLIENT** **NATIONAL LAW SCHOOL OF INDIA UNIVERSITY**  
Ghana Bharathi Main Rd, Teachers Colony, Naagarabhaavi, Bengaluru, Karnataka 560072

**STRUCTURAL CONSULTANTS:**  
**RAYS CONSULTING ENGINEERS**  
#30, 1st Main, 6th Cross, UAS layout, Sanjay Nagar, Bangalore – 560094

**ARCHITECT** **HUNDREDHANDS**  
7/2, Madras Bank Road, Shanthala Nagar, Ashok Nagar, Bengaluru, Karnataka 560001

**MEPE AND IBMS CONSULTANTS**  
**LEAD CONSULTANCY & ENGINEERING SERVICES (INDIA) Pvt.Ltd.**  
No.2729, 1st FLOOR, 80 FEET ROAD, INDIRA NAGAR III STAGE, BENGALURU-560038, KARNATAKA.  
Phone: +91 80 42980111, Web: lcsindia.org  
India: Bengaluru/ Mumbai / Pune / Gurgaon / Chennai / Hyderabad / Kolkata

DRAWING TITLE			
GROUND FLOOR ETD DRAWING			
DRAWN BY	KGM	DRAWING NUMBER	SCALE
CHECKED	MANJU	LCS-NLS-PHE-ETD-11	SHEET SIZE
APPROVED	VM	REVISION-R0	DATE
			05.02.2025

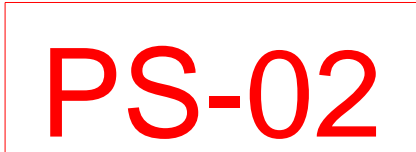
**DRAWING ISSUED FOR**  
TENDER DRAWINGS

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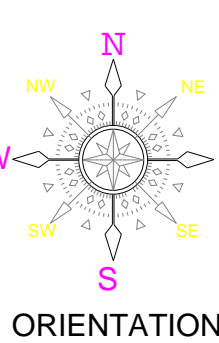


PS-03



PS-03

PHE LEGENDS:-	
SYMBOL	DESCRIPTION
	SOIL PIPE(SP)
	WASTE PIPE(WP)
	DOMESTIC WATER SUPPLY (DWS)
	FLUSHING WATER SUPPLY (FWS)
	PLUMBING SHAFT
	FLOOR CLEAN OUT
	END CAP
	EUROPIAN WATER CLOSET (EWC)
	URINALS (UR)
	WASH BASIN (WB)
	HEALTH FAUCET (HF)
	FLOOR DRAIN (FD)
	LEDGE WALL
	FLOW DIRECTION
	FLUSHING WATER SUPPLY (FWS)
	DOMESTIC WATER SUPPLY (DWS)
	1600 RAIN WATER PIPE(RWP)
	1100 SOIL PIPE(SP)
	630 VENT PIPE(VP)
	750 WASTE PIPE(WP)
	FLUSHING WATER SUPPLY PRM LINE(FWS)
	DOMESTIC WATER SUPPLY PRM LINE (DWS)
	ACCESS DOOR
	GULLY TRAP (GT)
	INSPECTION CHAMBER (IC)




## KEY PLAN

GENERAL  
NOTES:

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REV. NO.	REVISION DESCRIPTION	DATE
R0	TENDER DRAWINGS	05.02.2025
R1		
R2		
R3		
R4		
R5		
R6		

## PROJECT JSW ACADEMIC BLOCK - NLSIU



**NEW ACADEMIC BLOCK**  
Gnana Bharathi Main Rd, Teachers  
Colony, Naagarabhaavi, Bengaluru,  
Karnataka 560072

**CLIENT** NATIONAL LAW SCHOOL OF INDIA  
UNIVERSITY

Gnana Bharathi Main Rd, Teachers  
Colony,  
Naagarabhaavi, Bengaluru,  
Karnataka 560072

**STRUCTURAL CONSULTANTS:**

**RAY'S CONSULTING ENGINEERS**  
#30, 1st Main, 6th Cross,  
UAS layout, Sanjay Nagar,  
Bangalore – 560094

**ARCHITECT**  
**HUNDREDHANDS**  
9/2, Madras Bank Road,  
Shanthala Nagar, Ashok Nagar,  
Bengaluru,  
Karnataka 560001

**MEPEF AND IRMS  
CONSULTANTS**

**LEAD**  
Eco Friendly Solutions

**LEAD CONSULTANCY &  
ENGINEERING  
SERVICES (INDIA) Pvt.Ltd.**

No.2729, 1st.FLOOR, 80 FEET ROAD,  
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Phone: +91 80 42980111, [WebSiteIndia.com](http://WebSiteIndia.com)  
India: Bengaluru/ Mumbai/ Pune/ Gurgaon/ Chennai/ Hyderabad/ Kolkata

## DRAWING TITLE

TYPICAL FLOOR(1ST TO 4TH FLOOR) ETD DRAWING

DRAWN BY	KGM	DRAWING NUMBER LCES-NLS-PHE-ETD-10	SCALE	1:50
CHECKED	MANJU		SHEET SIZE	A2
APPROVED	VM	REVISION-R0	DATE	05.02.2025

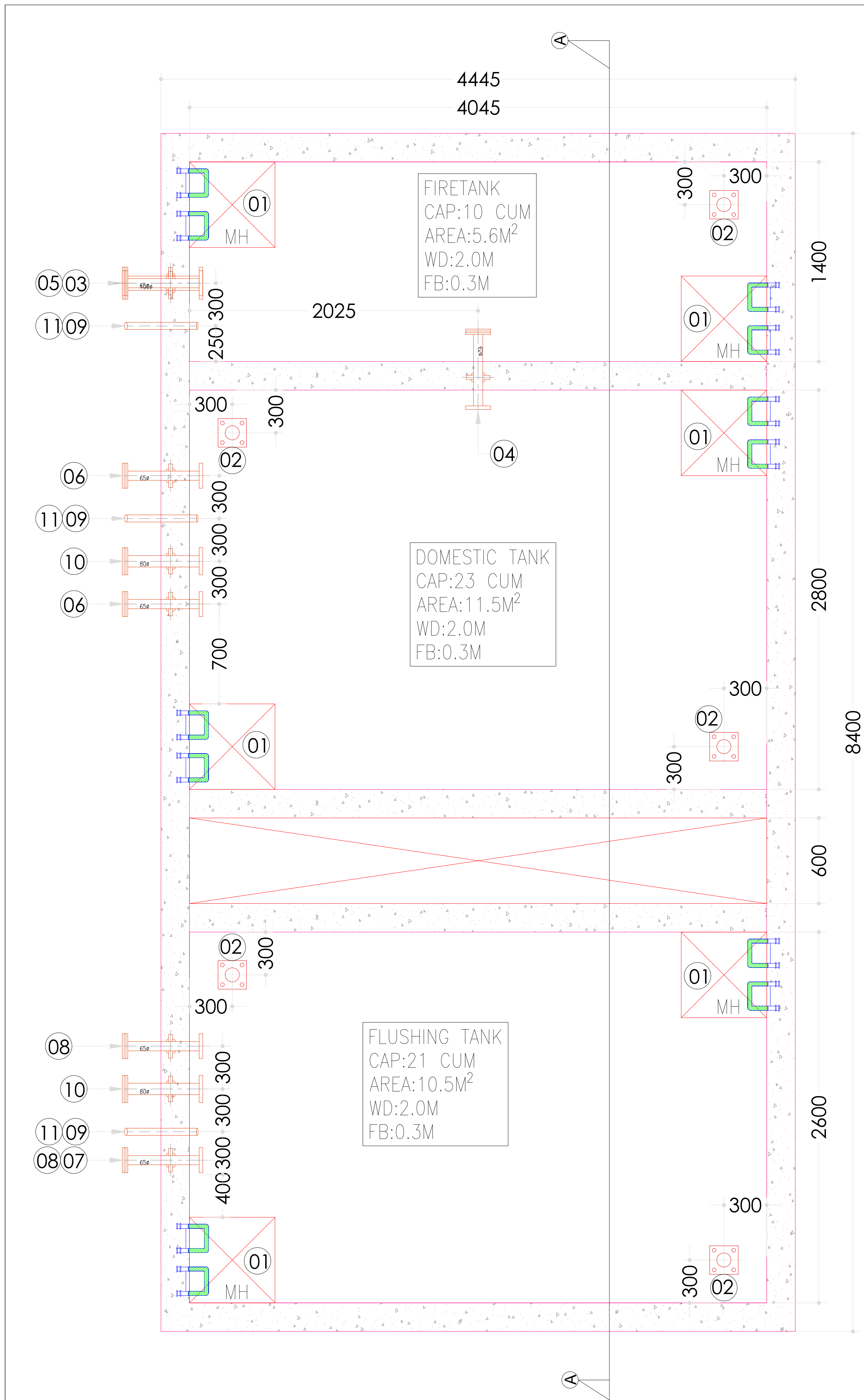
## DRAWING ISSUED FOR

TENDER DRAWINGS

THIS DRAWING IS SOLE PROPERTY OF LEAD CONSULTANCY  
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MENTIONED TO BE DONE ONLY AFTER THEIR PRIOR APPROVAL.

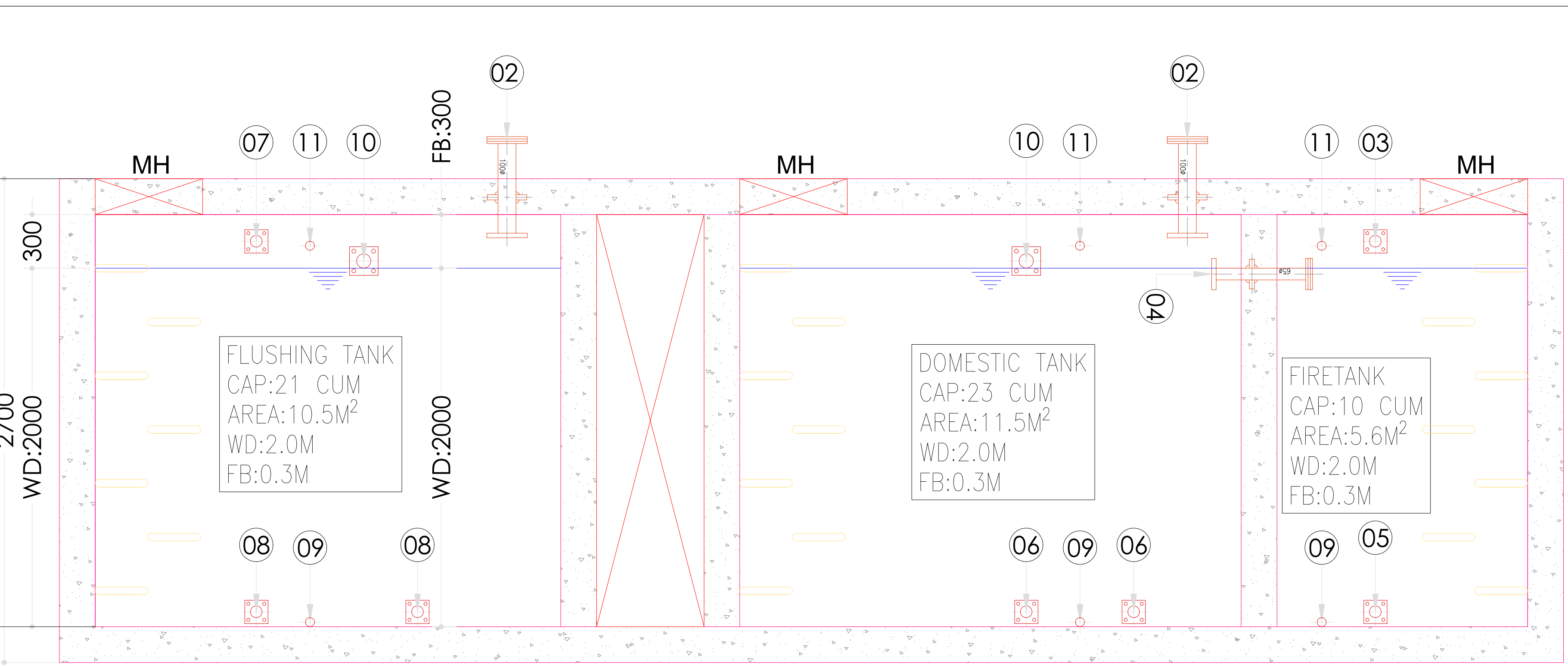






OHT TOP SLAB  
LVL:

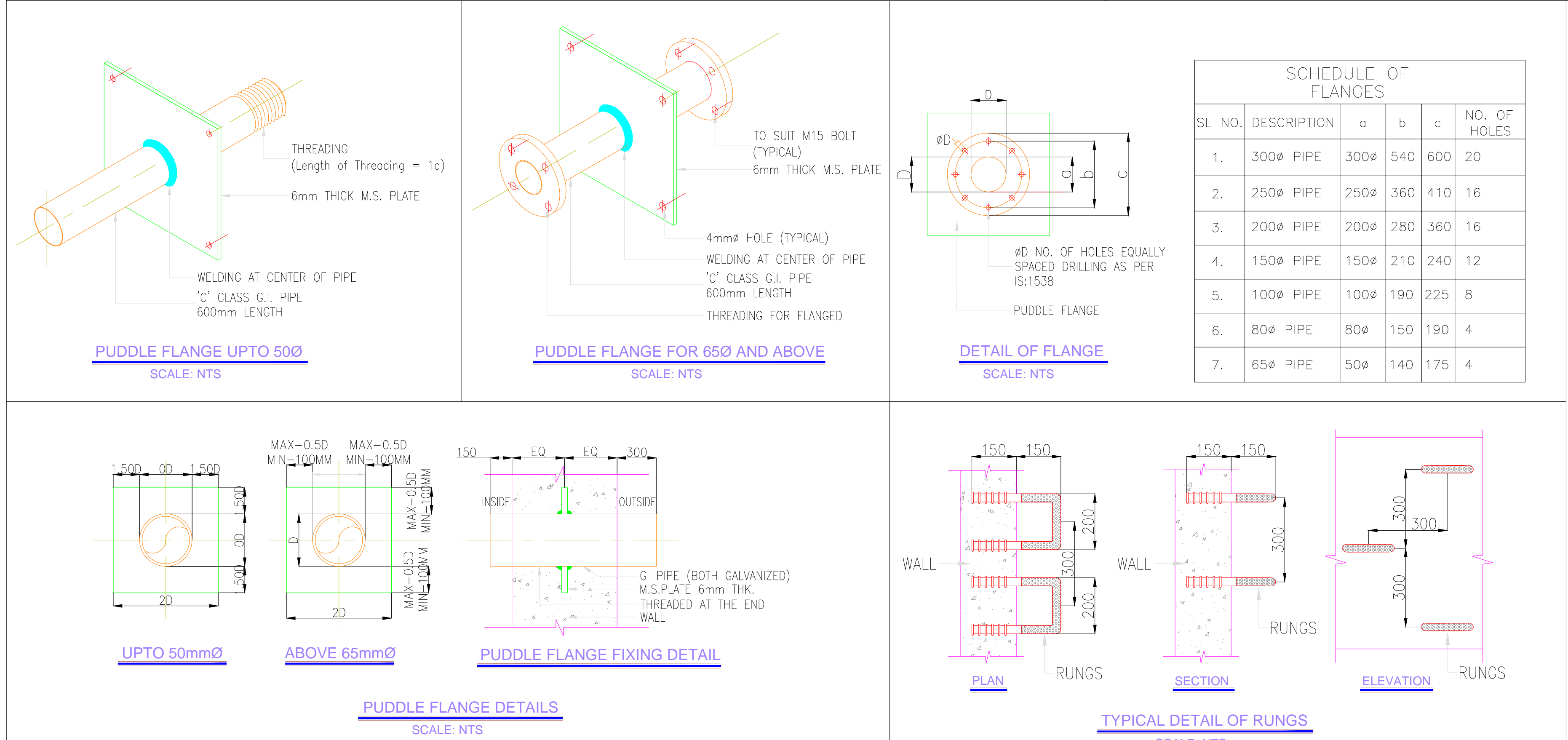
OHT BOTTOM  
SLAB LVL:



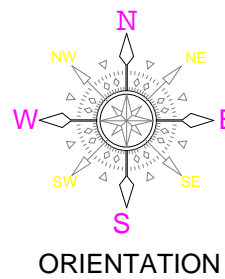
SECTION A-A

PUDDLE FLANGE INDEX

SL NO	DESCRIPTION	SIZE IN MM	BOTTOM OF PIPE LEVEL
1	MANHOLE FRAME & COVER	600x600	
2	VENT PIPE	100ø	AT TOP SLAB
3	FIRE TANK INLET PUDDLE FLANGE	65ø	100MM ABOVE WATER LEVEL
4	FIRE TO DOMESTIC TANK OVER FLOW PUDDLE FLANGE	65ø	TOP OF THE PUDDLE FLANGE @WATER LVL
5	FIRE OUTLET PUDDLE FLANGE	100ø	50MM ABOVE BOTTOM SLAB
6	DOMESTIC OUTLET PUDDLE FLANGE	65ø	50MM ABOVE BOTTOM SLAB
7	FLUSHING TANK INLET PUDDLE FLANGE	65ø	100MM ABOVE WATER LEVEL
8	FLUSHING TANK OUTLET PUDDLE FLANGE FOR GRAVITY SYSTEM	65ø	50MM ABOVE BOTTOM SLAB
9	DRAIN OUT PUDDLE FLANGE	50ø	BOTTOM OF SLAB
10	OVER FLOW PUDDLE FLANGE	80ø	FREE BOARD LEVEL
11	PVC CONDUIT SLEEVE FOR LEVEL CONTROLLER	50ø	100MM ABOVE WATER LEVEL



KEY PLAN



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PROJECT

NEW ACADEMIC BLOCK  
Gnana Bharathi Main Rd, Teachers Colony, Naagarabhaavi, Bengaluru, Karnataka 560072

CLIENT

NATIONAL LAW SCHOOL OF INDIA UNIVERSITY  
Gnana Bharathi Main Rd, Teachers Colony, Naagarabhaavi, Bengaluru, Karnataka 560072

STRUCTURAL CONSULTANTS:

RAYS CONSULTING ENGINEERS  
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ARCHITECT

HUNDREDHANDS  
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MEPF AND IBMS CONSULTANTS

LEAD CONSULTANCY & ENGINEERING SERVICES (INDIA) Pvt.Ltd.  
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Bengaluru | Mumbai | Pune | Gurgaon | Chennai | Hyderabad | Kolkata

DRAWING TITLE

OHT PUDDLE FLANGE DRAWING

DRAWN BY	KGM	DRAWING NUMBER	LCES-NLS-PHE-OHT-09	SCALE	1:100
CHECKED	MANJU	REVISION	R0	SHEET SIZE	A3
APPROVED	VM	DATE	05.02.2025		

DRAWING ISSUED FOR

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