





MULTIPURPOSE STADIUM, CHAMBA



TBSL COLORBOND® LYSAGHT TRIMDEK ROOFING SHEET OF NOM.1072 MM SUPPLIED WIDTH AND NOMINAL 28.5 MM DEEP RIBS WITH SUBTLE SQUARE FLUTING IN THE FIVE PAN AT NOMINAL 203 MM CENTRE TO CENTRE. THE END RIB SHALL BE DESIGNED FOR ANTICAPILLARY ACTION, TO AVOID ANY SEEPAGE OF WATER THROUGH THE LATERAL OVERLAP. THE FEED MATERIAL IS MANUFACTURED OUT OF NOMINAL 0.45MM BMT (BASE METAL THICKNESS) & 0.53MM TPT (TOTAL PAINTED THICKNESS), HI-TENSILE STEEL WITH MIN. 550 MPA YIELD STRENGTH, METALLIC HOT DIP COATED WITH ALUMINUM-ZINC ALLOY (55% ALUMINUM, 45% ZINC) AS PER AS 1397 - ZINCALUME AZ150 (MIN. 150 GMS/SQ.MT TOTAL ON BOTH SIDES) WITH SUPER POLYESTER COLORBOND XRW (THERMA TECH TECHNOLOGY) QUALITY PAINT AS PER AS/NZS 2728 CLASS 3 OF TATA BLUESCOPE STEEL MAKE. THE PAINT WILL HAVE A TOTAL COATING THICKNESS OF NOMINAL 35 MM, COMPRISING OF NOMINAL 20 MM EXTERIOR COAT ON TOP SURFACE AND NOMINAL 5 MM REVERSE COAT ON BACK SURFACE OVER NOMINAL 5 MM PRIMER COAT ON BOTH SURFACES OF APPROVED COLOUR SHADE BY ARCHITECT. BUBBLE SHEET INSULATION SHALL BE PROVIDED BELOW THE ROOFING SHEET, UNDER WHICH ROCKWOOL SANDWICH IN ALUMINIUM FOIL SHALL BE INSTALLED, SUPPORTED BY WELDED MS / STEEL MESH AS PER DETAILED DRAWINGS AND SPECIFICATIONS.

ALUMINIUM COMPOSITE PANELS OF 4MM TOTAL THICKNESS WITH TOP AND BOTTOM COIL OF 0.5MM THICK AA3105 ALLOY GRADE PRODUCED FROM DIRECT CHILL PROCESS AND FOLLOWING EN 485-2. THE TOP AND BOTTOM ALUMINIUM COIL SHOULD BE COATED WITH LEAD FREE PVDF (POLYVINYL DIENE FLUORIDE) PAINT OF 70:30 RATIO BY DOUBLE COAT DOUBLE BAKE METHOD FOLLOWING AAMA2605 IN MATT RUSTIC SERIES FINISH. THE CORE SHOULD BE MINERAL CORE WITH MINIMUM 72% INORGANIC MATTER PASSING RESISTANCETO FIRE ASTM E119 FOR 2 HOURS AND REACTION TO FIRE EN13501-1 CLASS B S1 D0. THE MANUFACTURER SHOULD BE HAVING ALL THE REQUIRED TEST EQUIPMENT'S (YEARLY CALIBRATED FROM NABL ACCREDITED LAB) FOR PROVIDING TECHNICAL DATA SHEET PARAMETERS MENTIONED IN THE TECHNICAL SPECIFICATIONS.

STRUCTURAL GLAZING AS PER SPECIFICATIONS

STONE TEXTURE TILES 12.5 MM THICK CLADDING ON RCC SURFACE / STONE / BRICK SURFACE AS ON ELEVATIONS OF MASONARY WALLS ETC. ON 12MM THICK CEMENT

TEXTURE AND EXTERIOR PAINT WITH 2.5-3.5 SQ.FT/KG/COAT HAVING DENSITY 1.85 PERCENT AT 0.5 AND VOC LESS THAN 50 GM/L. THE WORK SHALL INCLUDE PROVIDING AND APPLYING ONE COAT OF WEATHERCOAT PRIMER/ SEAL-O-PRIME, ACRIBOND PRIMER AS RECOMMENDED WITH A DRYING TIME OF 4-6 HR. ABOVE THE PRIMER TWO COATS OF TEXTURE PAINT SHALL BE APPLIED WITH TROWEL WITH A TIME INTERVAL OF 12-16 HRS BETWEEN THE COATS. TOP COAT HAVING TWO COATS OF WEATHERCOAT EXTERIOR PAINT(ANTIDUST AND ANTI FUNGAL OF APPROVED MAKE AND SHADE) WITH THE RECOMMENDED DILLUSION RATIO AS FINISHING COAT, COMPLETE IN ALL RESPECTS UPTO ALL HEIGHTS AND TO THE COMPLETE SATISFACTION OF THE ENGINEER IN-CHARGE.

ANODIZED ALUMINUM SECTIONS FOR WINDOWS AND VENTILATORS WITH EXTRUDED BUILT UP STANDARD TUBULAR AND OTHER SECTIONS OF APPROVED MAKE CONFORMING TO IS 733 AND IS 1285 ANODIZED TRANSPARENT OR DYED TO REQUIRED SHADE ACCORDING TO IS 1868 (MEDIUM ANODIC COATING OF GRADE AC 15) EXPANSION HOLD FASTENERS INCLUDING NECESSARY FILLING UP OF GAPS AT JUNCTION'S AT TOP BOTTOM AND SIDES WITH REQUIRED PVC/ NEOPRENE FELT ETC, ALUMINUM SECTIONS SHALL BE SMOOTH RUST FREE STRAIGHT, MITERED AND JOINTED MECHANICALLY. ALUMINUM SWAP BEADING FOR GLAZING/ PANELING C.P BRASS/ STAINLESS, STEEL SCREWS, INCLUDING PROVIDING AND FIXING HINGES PIVOTS ALUMINUM JOINERY FITTING AND LOCK & PROVIDING AND FIXING GLASS PANES OF 6MM THICKNESS TINTED IN APPROVED COLOR FOR EXTERIOR GLAZING, WEIGHT NOT LESS THAN 14.75 KG/SQM.GLASS PANES IN BASKET BALL HALL SHALL BE 8MM THK TOUGHENED GLASS.ALL INTERNAL GLASS PANES SHALL NOT BE TINTED. THE WORK SHALL INCLUDE ALUMINUM SNAP BEADING UP TO ANY STOREY COMPLETE IN ALL RESPECTS AS PER APPROVED DRAWINGS AND DESIGN TO THE ENTIRE SATISFACTION OF ENGINEER IN CHARGE.

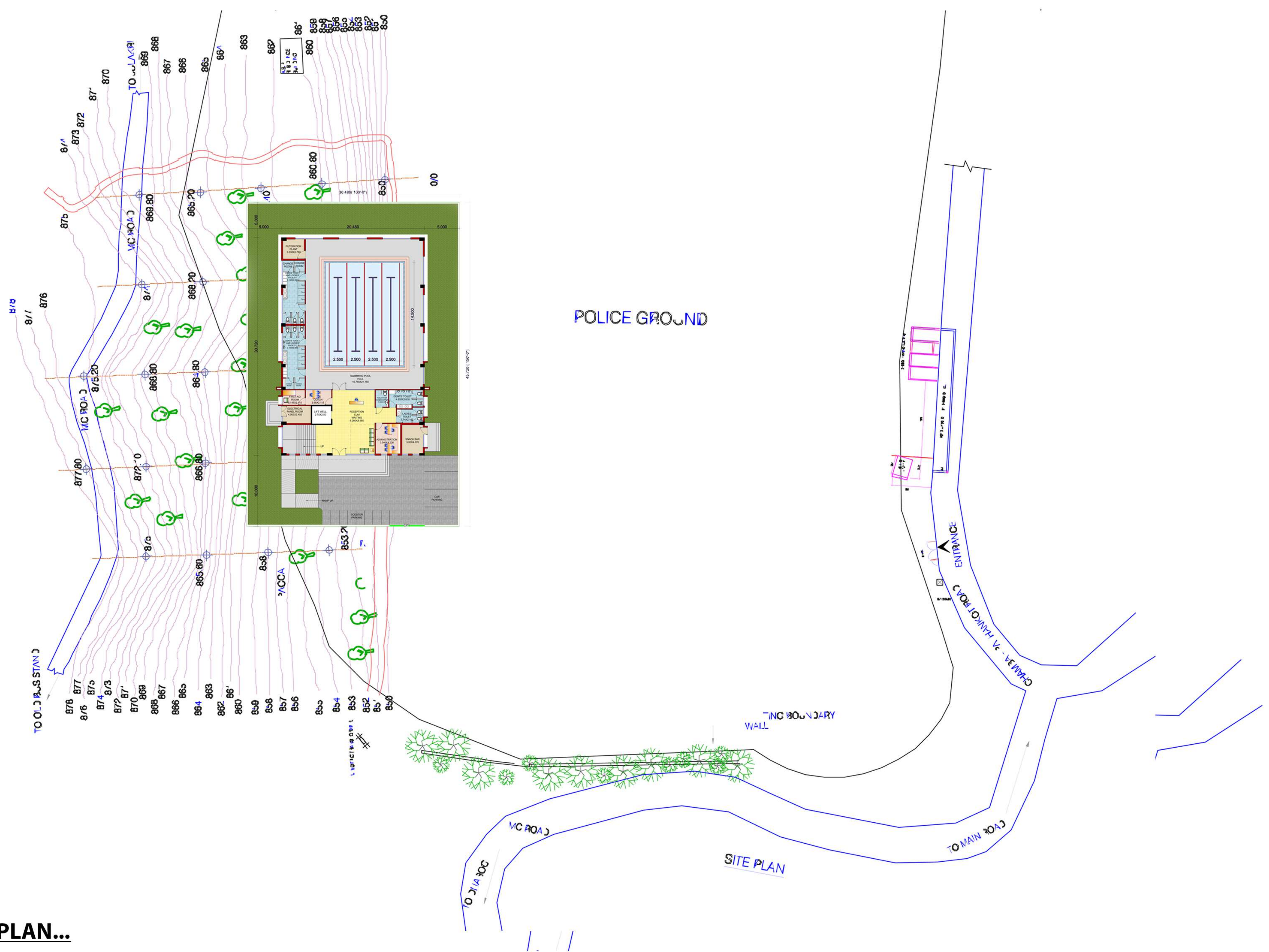
SITE PLAN...

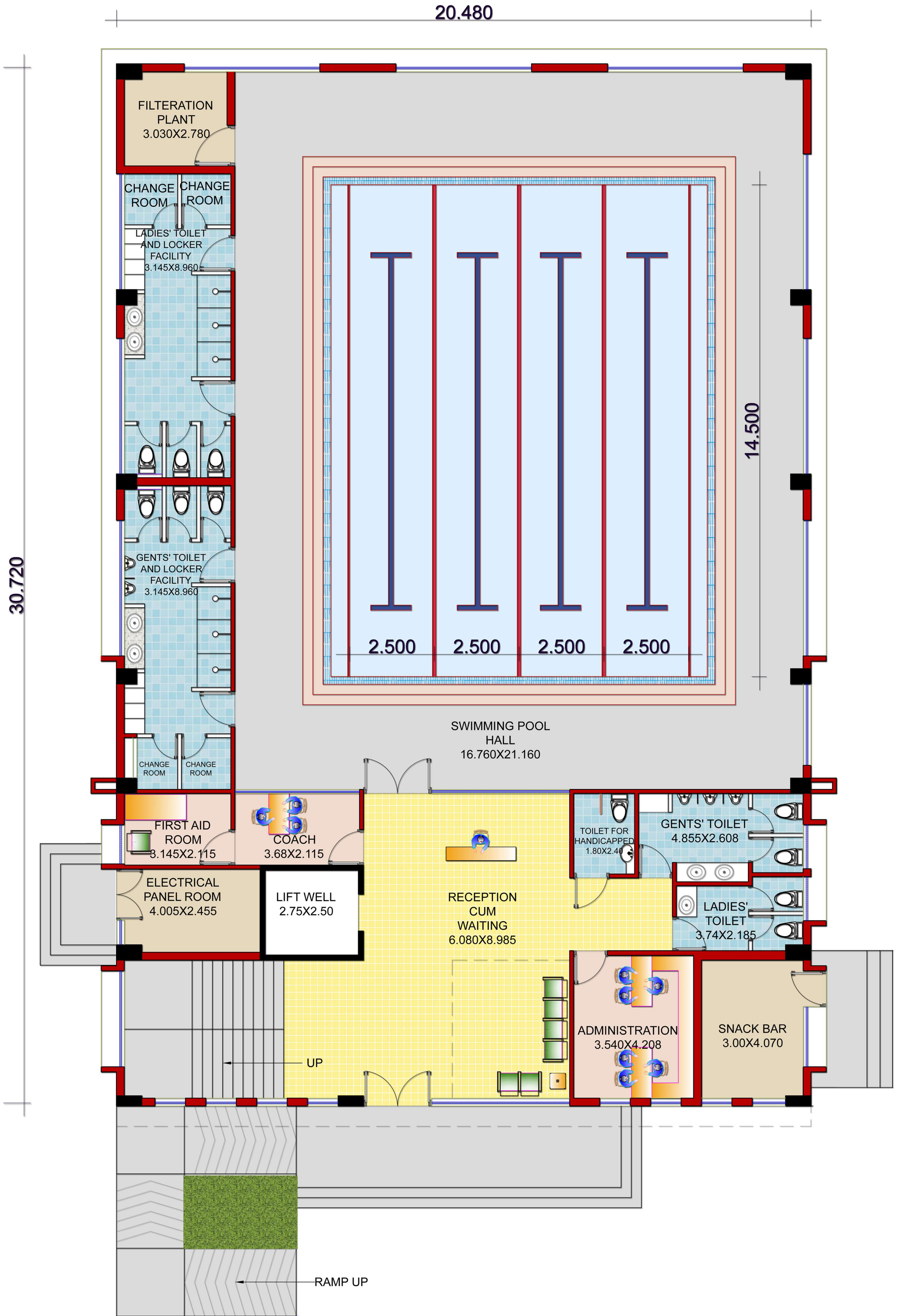
design proposal for...

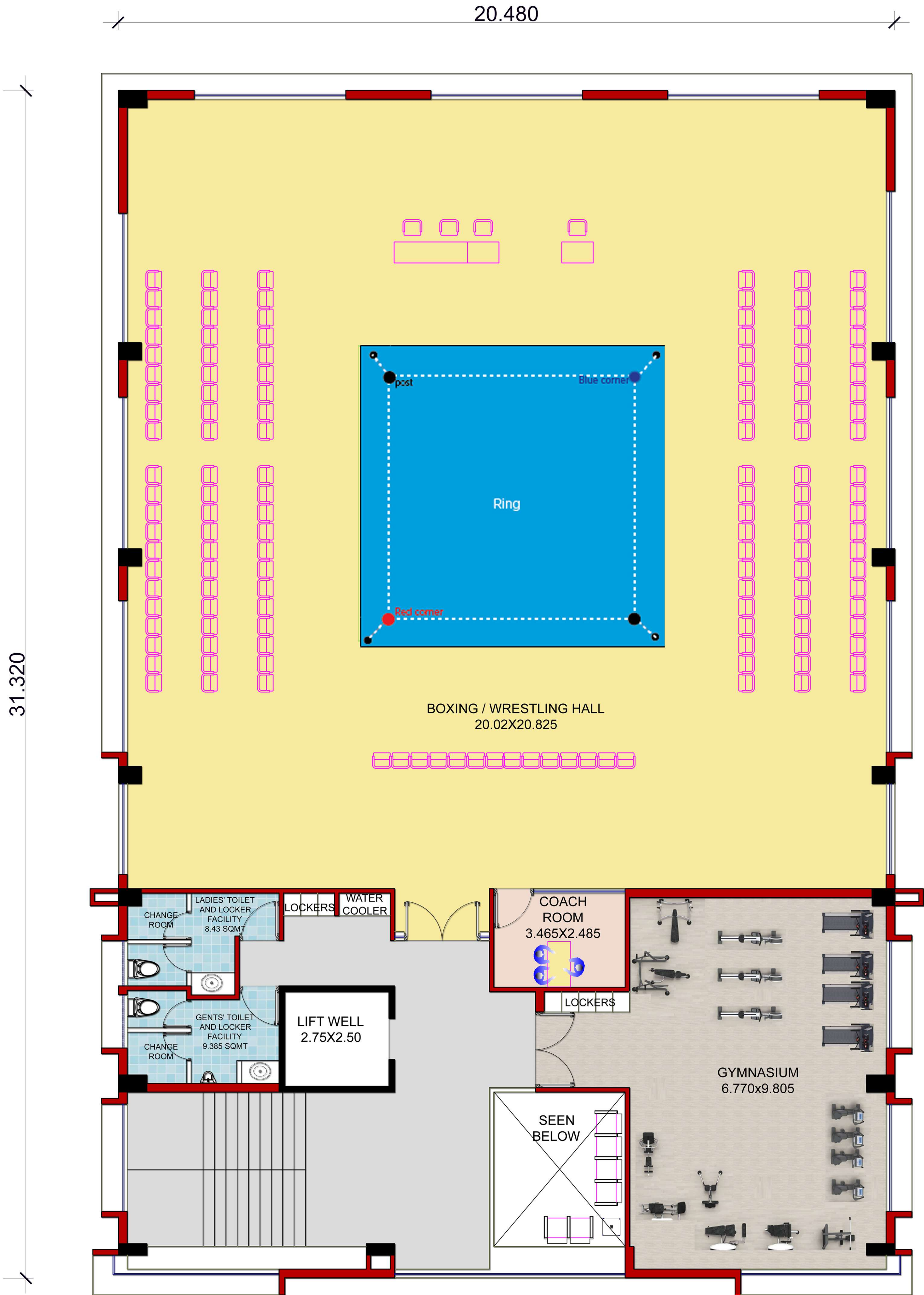
MULTIPURPOSE INDOOR SPORTS HALL AT CHAMBA, HIMACHAL PRADESH.

SITE PLAN

 *By design*
ART & ARCHITECTURE
66, Sector-9A, Chandigarh
Ph. 0172-4639066, 9815555290





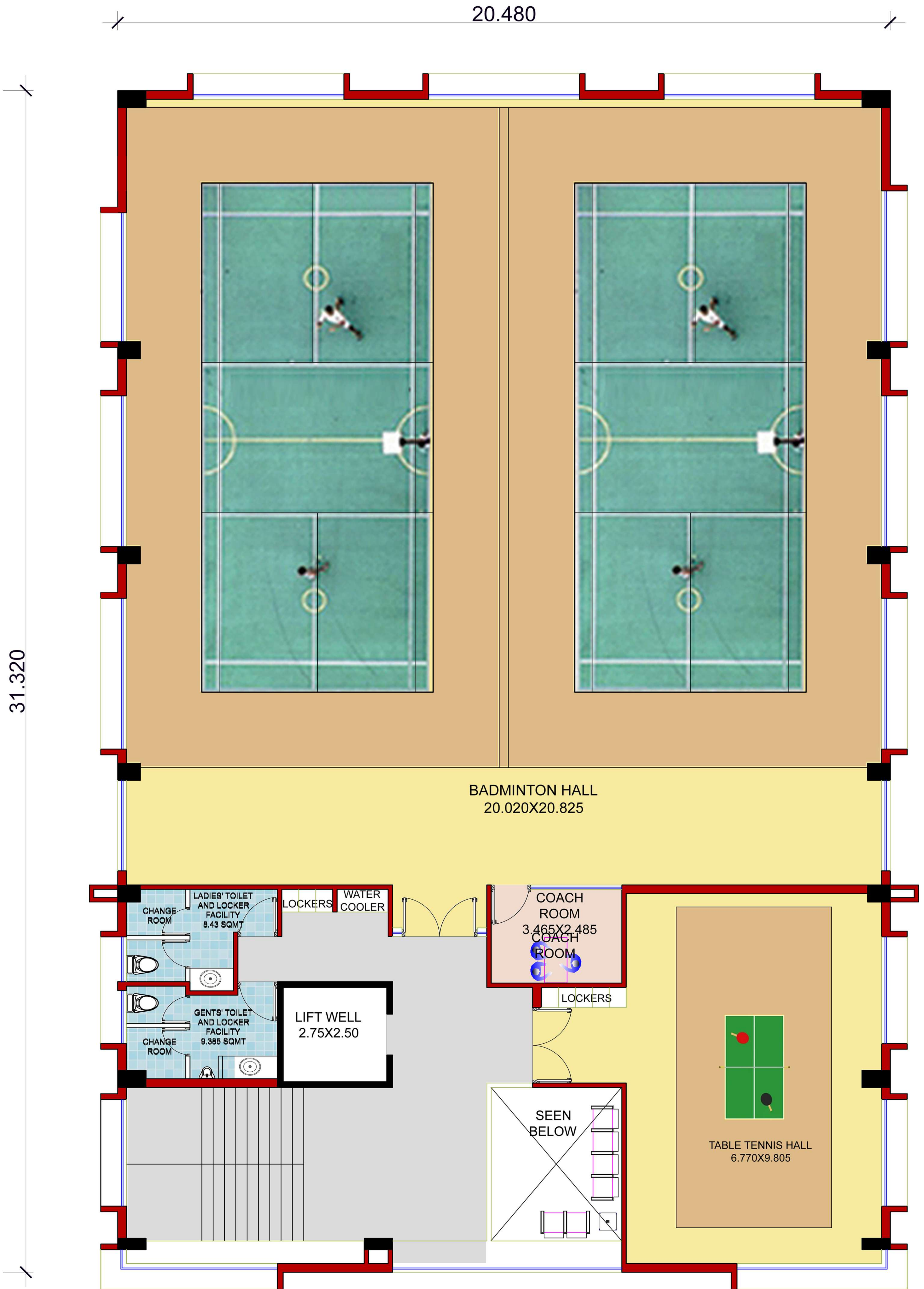


FIRST FLOOR PLAN...

design proposal for...
**MULTIPURPOSE INDOOR SPORTS HALL AT
CHAMBA, HIMACHAL PRADESH.**

GROUND FLOOR PLAN

By design
ART & ARCHITECTURE
66, Sector-9A, Chandigarh
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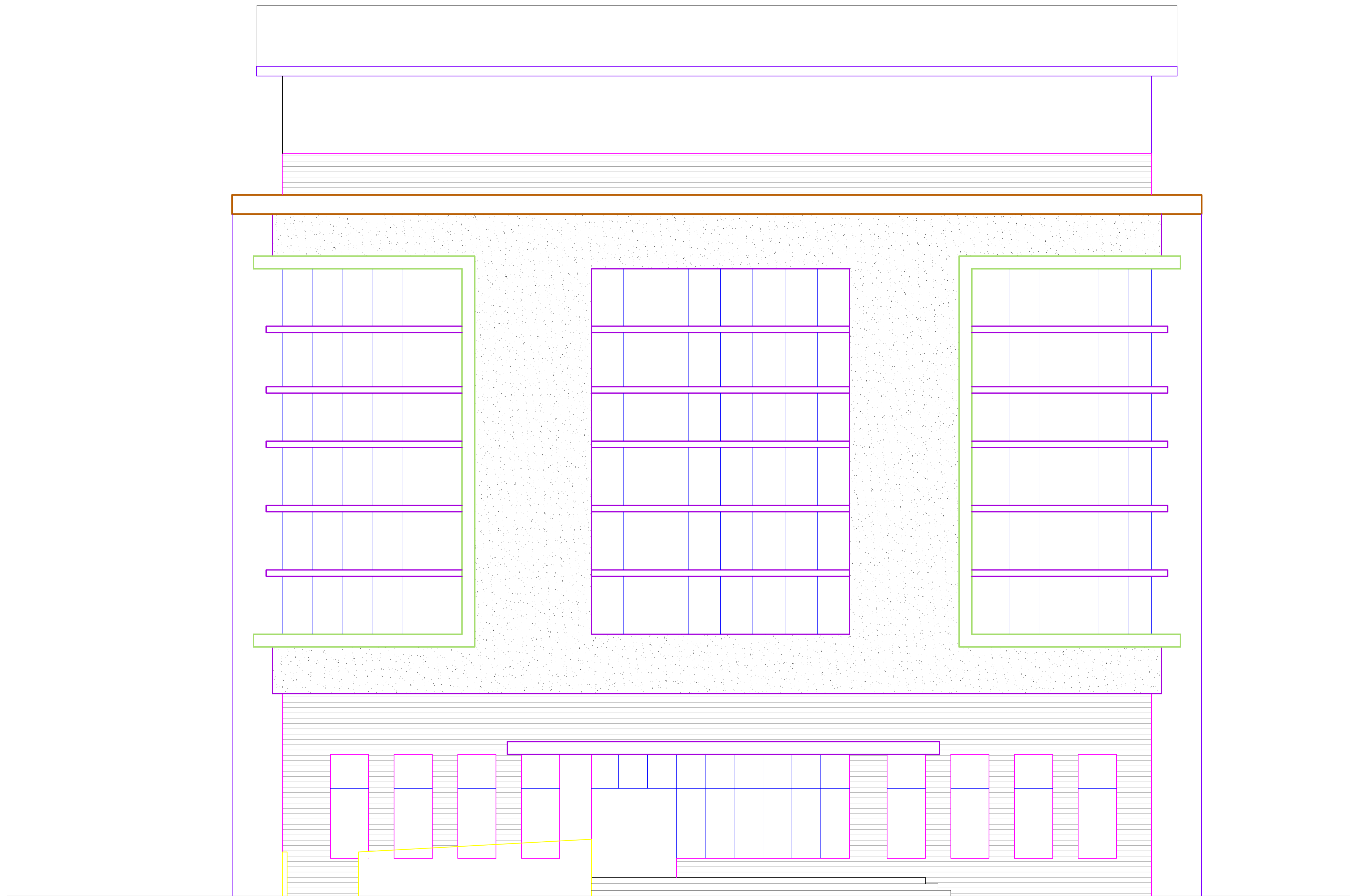
SECOND FLOOR PLAN...

design proposal for...

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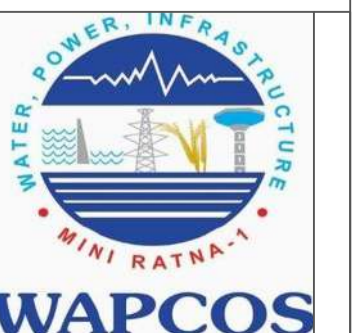
FRONT ELEVATION...

PROJECT:
**DESIGN PROPOSAL FOR INDOOR SPORTS HALL AT
CHAMBA, HP.**

SCALE

JOB NO.

DRG NO.





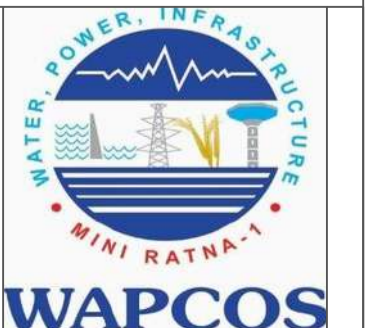
RIGHT SIDE ELEVATION

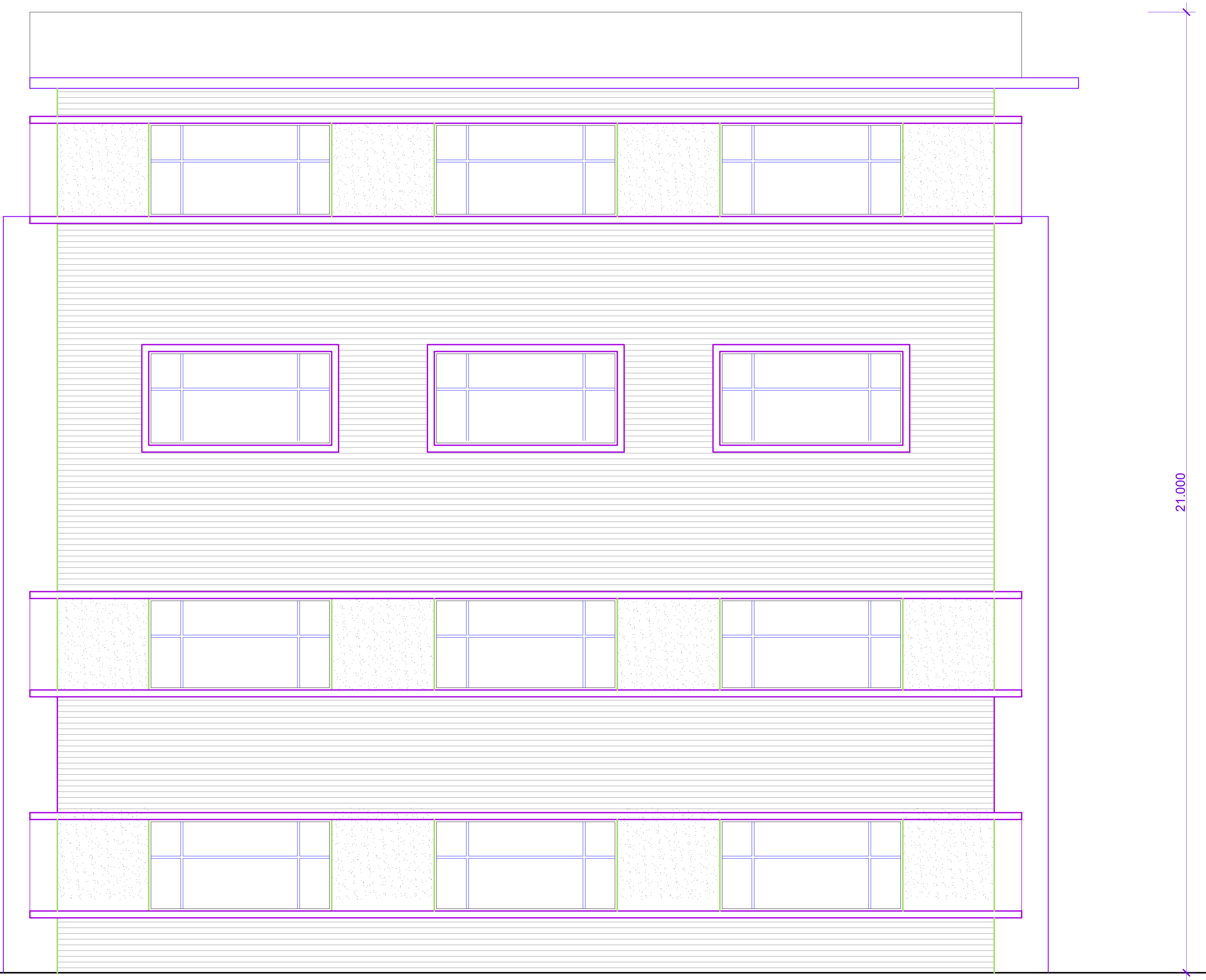
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CHAMBA, HP.

SCALE

JOB NO.

DRG NO.

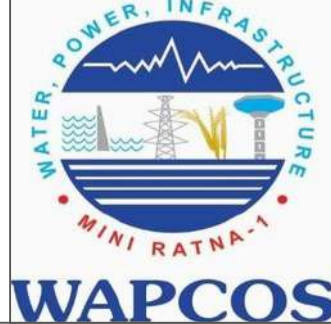


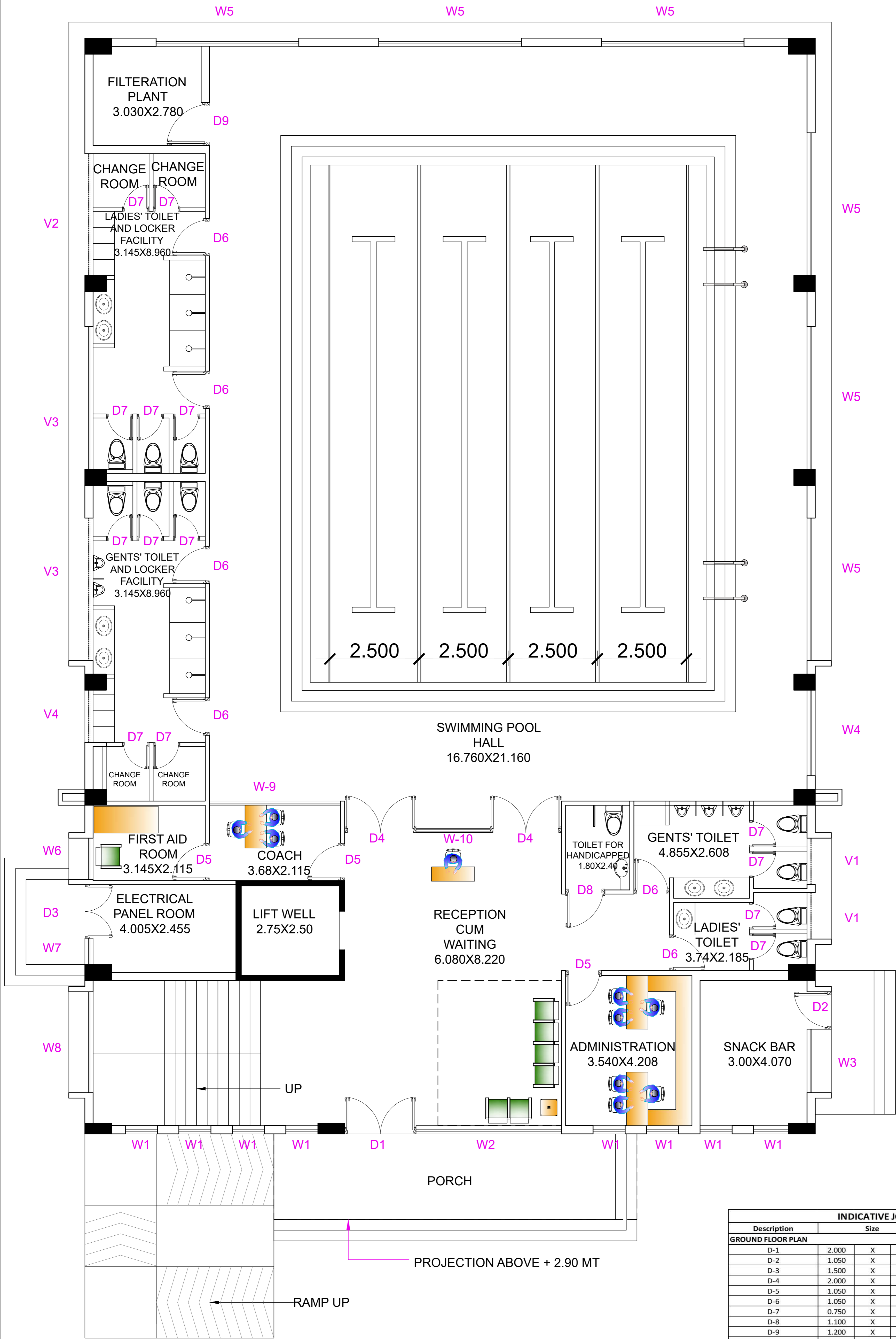


REAR ELEVATION...

PROJECT:
DESIGN PROPOSAL FOR INDOOR SPORTS HALL AT
CHAMBA, HP.

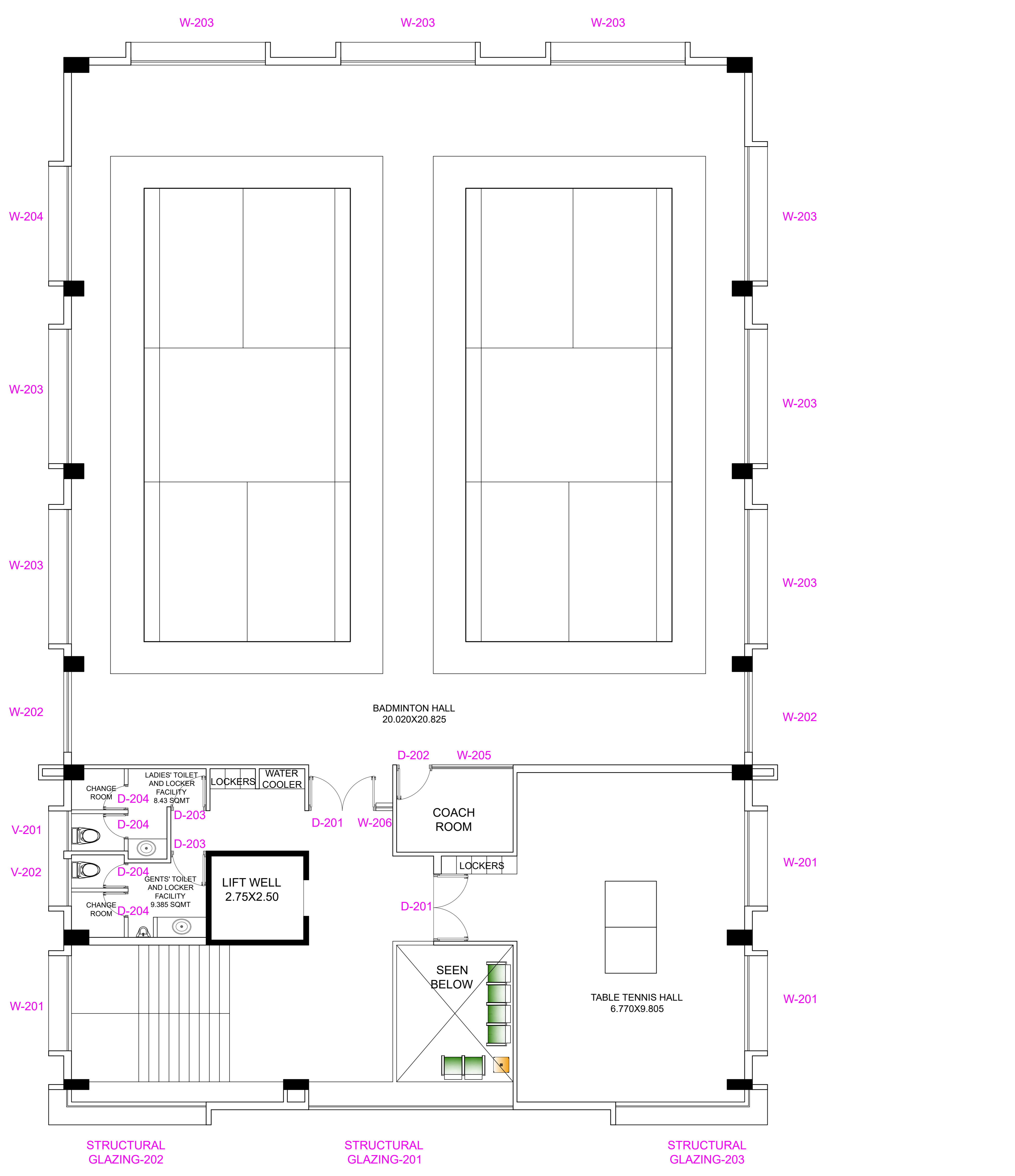
SCALE JOB NO. DRG NO.





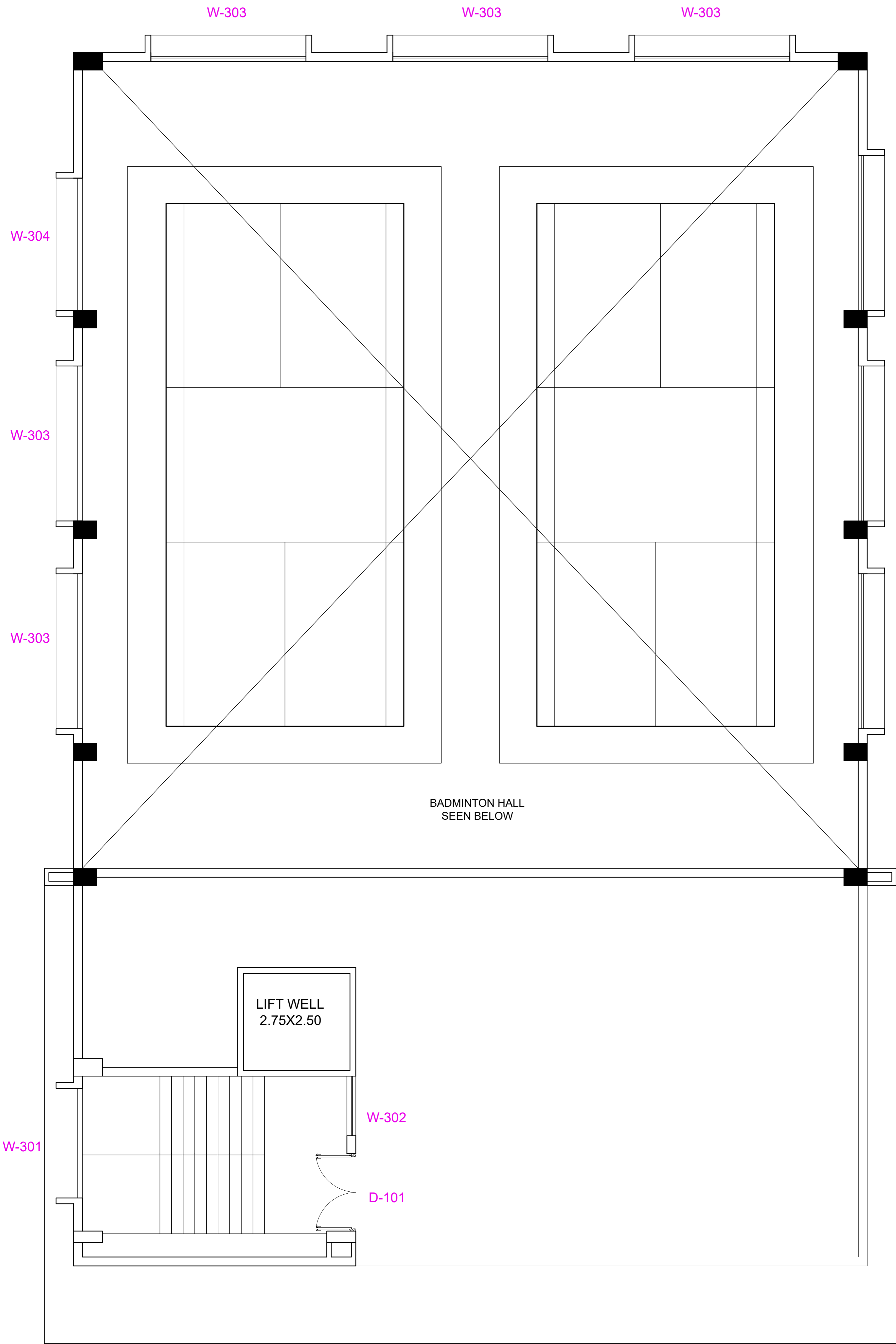
GROUND FLOOR PLAN...

INDICATIVE JOINERY SCHEDULE						
Description	Size			Cill	Lintel	Nos.
GROUND FLOOR PLAN						
D-1	2.000	X	2.900	-	2.900	1
D-2	1.050	X	2.900	-	2.900	1
D-3	1.500	X	2.900	-	2.900	1
D-4	2.000	X	2.100	-	2.100	2
D-5	1.050	X	2.100	-	2.100	3
D-6	1.050	X	2.100	-	2.100	6
D-7	0.750	X	2.100	-	2.100	14
D-8	1.100	X	2.100	-	2.100	1
D-9	1.200	X	2.100	-	2.100	1
W-1	0.900	X	2.450	0.450	2.900	8
W-2	4.080	X	2.450	0.450	2.900	1
W-3	1.780	X	2.000	0.900	2.900	1
W-4	2.400	X	2.000	0.900	2.900	1
W-5	4.000	X	2.000	0.900	2.900	6
W-6	1.157	X	2.000	0.900	2.900	1
W-7	0.735	X	2.000	0.900	2.900	1
W-8	2.830	X	2.000	0.900	2.900	1
W-9	3.680	X	1.200	0.900	2.100	1
W-10	2.080	X	1.200	0.900	2.100	1
V-1	1.300	X	1.200	1.700	2.900	2
V-2	3.415	X	1.200	1.700	2.900	1
V-3	4.000	X	1.200	1.700	2.900	2
V-4	1.465	X	1.200	1.700	2.900	1



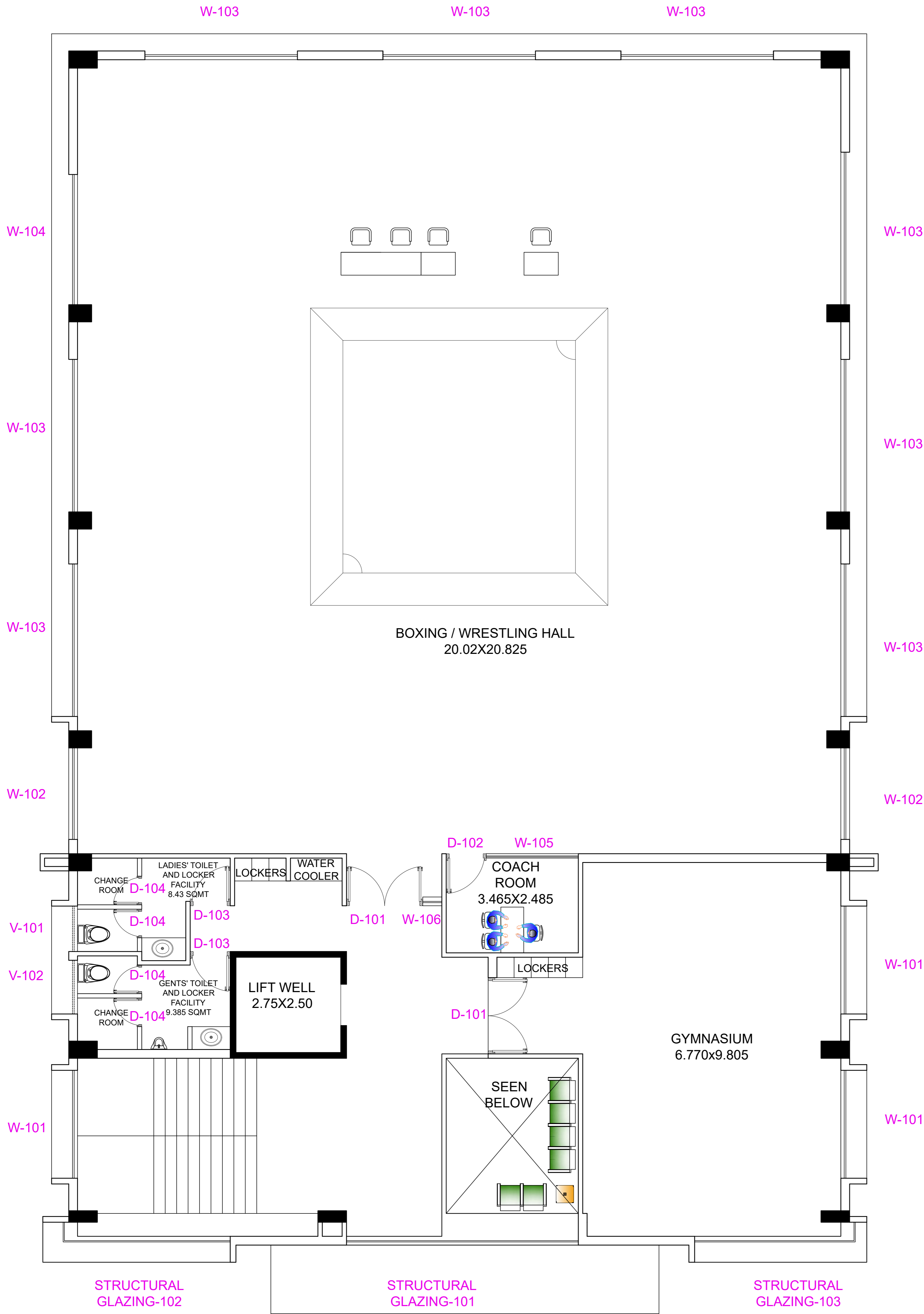
SECOND FLOOR PLAN...

INDICATIVE JOINERY SCHEDULE							
	Description	Size		Cill	Lintel	Nos.	
SECOND FLOOR PLAN							
1	D-201	2.000	X	2.100	-	2.100	2
2	D-202	1.050	X	2.100	-	2.100	1
3	D-203	1.050	X	2.100	-	2.100	2
4	D-204	0.750	X	2.100	-	2.100	4
5	Structural Glazing-201	6.080	X	1.365	as per elevation	as per elevation	3
6	Structural Glazing-202 (Corner Glazing)	4.375	X	1.365	as per elevation	as per elevation	3
7	Structural Glazing-203 (Corner Glazing)	4.205	X	1.365	as per elevation	as per elevation	3
8	W-201	2.830	X	2.000	0.900	2.900	3
9	W-202	2.400	X	2.000	0.900	2.900	2
10	W-203	4.000	X	2.000	0.900	2.900	8
11	W-204	3.415	X	2.000	0.900	2.900	1
12	W-205	2.415	X	1.200	0.900	2.100	1
13	W-206	0.500	X	1.200	0.900	2.100	1
14	V-201	1.192	X	1.200	1.700	2.900	2
15	V-202	1.408	X	1.200	1.700	2.900	1



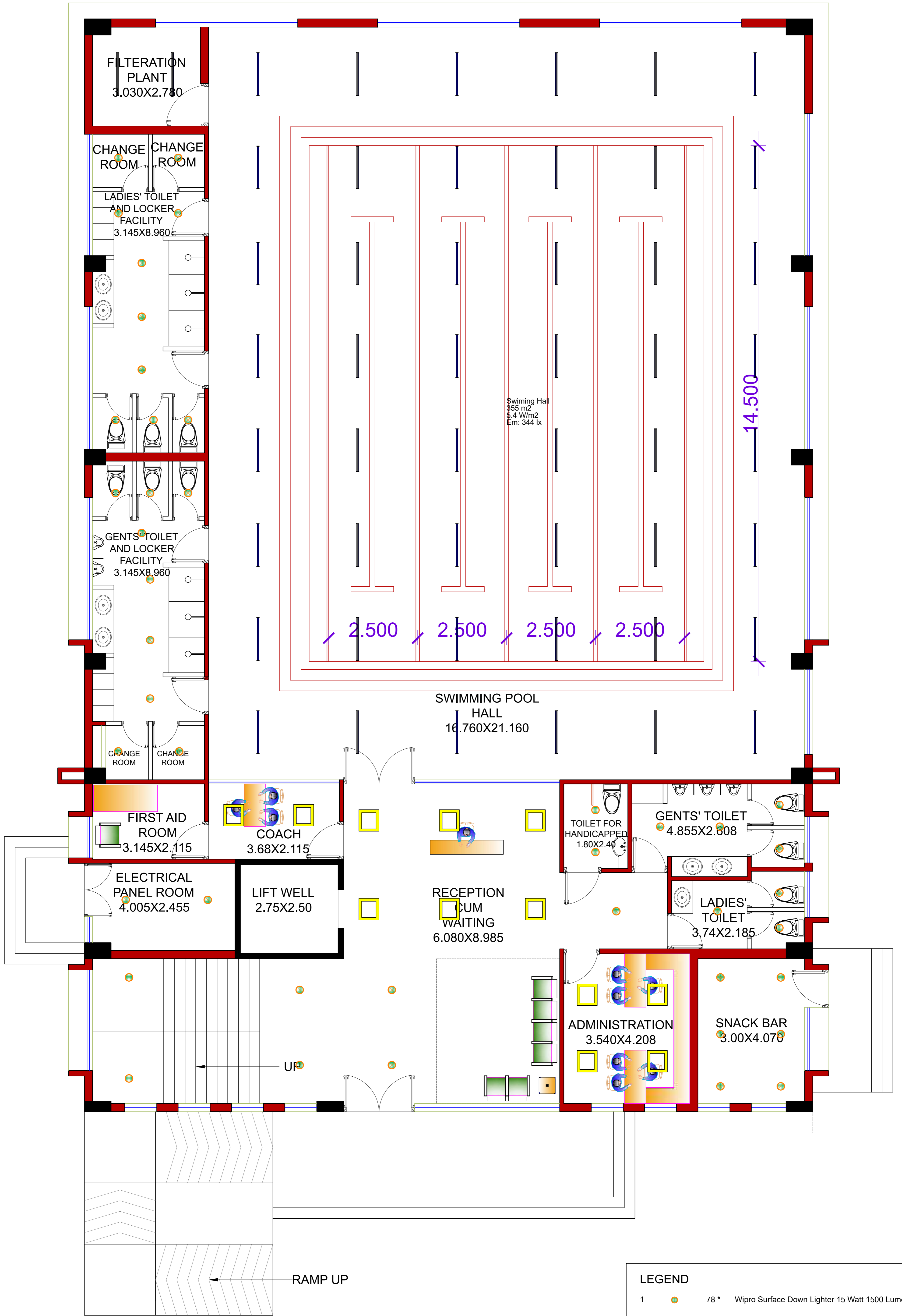
TERRACE PLAN...

INDICATIVE JOINERY SCHEDULE							
	Description	Size		Cill		Lintel	Nos.
TERRACE PLAN							
1	D-301	2.000	X	2.100	-	2.100	1
2	W-301	2.830	X	1.200	0.900	2.100	1
3	W-302	1.540	X	1.200	0.900	2.100	1
4	W-303	4.000	X	2.000	0.200	2.200	8
5	W-304	3.415	X	2.000	0.200	2.200	1



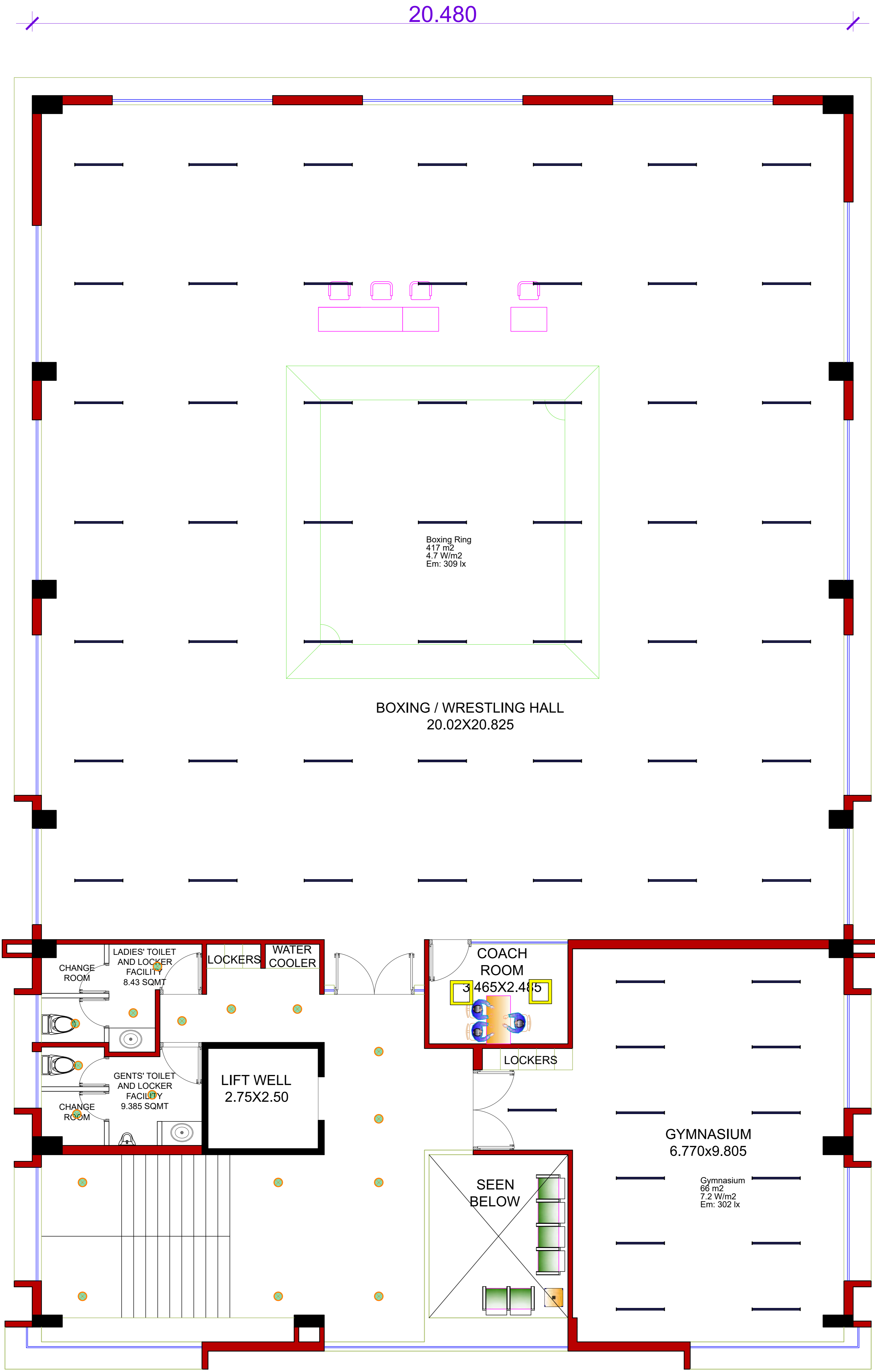
FIRST FLOOR PLAN...

INDICATIVE JOINERY SCHEDULE							
Sr. No.	Description	Size		Cill	Lintel	Nos.	
FIRST FLOOR PLAN							
1	D-101	2.000	X	2.100	-	2.100	2
2	D-102	1.050	X	2.100	-	2.100	1
3	D-103	1.050	X	2.100	-	2.100	2
4	D-104	0.750	X	2.100	-	2.100	4
5	Structural Glazing-101	6.080	X	1.365	as per elevation	as per elevation	3
6	Structural Glazing-102 (Corner Glazing)	4.375	X	1.365	as per elevation	as per elevation	3
7	Structural Glazing-103 (Corner Glazing)	4.205	X	1.365	as per elevation	as per elevation	3
8	W-101	2.830	X	2.000	0.900	2.900	3
9	W-102	2.400	X	2.000	0.900	2.900	2
10	W-103	4.000	X	2.000	0.900	2.900	8
11	W-104	3.415	X	2.000	0.900	2.900	1
12	W-105	2.415	X	1.200	0.900	2.100	1
13	W-106	0.500	X	1.200	0.900	2.100	1
14	V-101	1.192	X	1.200	1.700	2.900	2
15	V-102	1.408	X	1.200	1.700	2.900	1



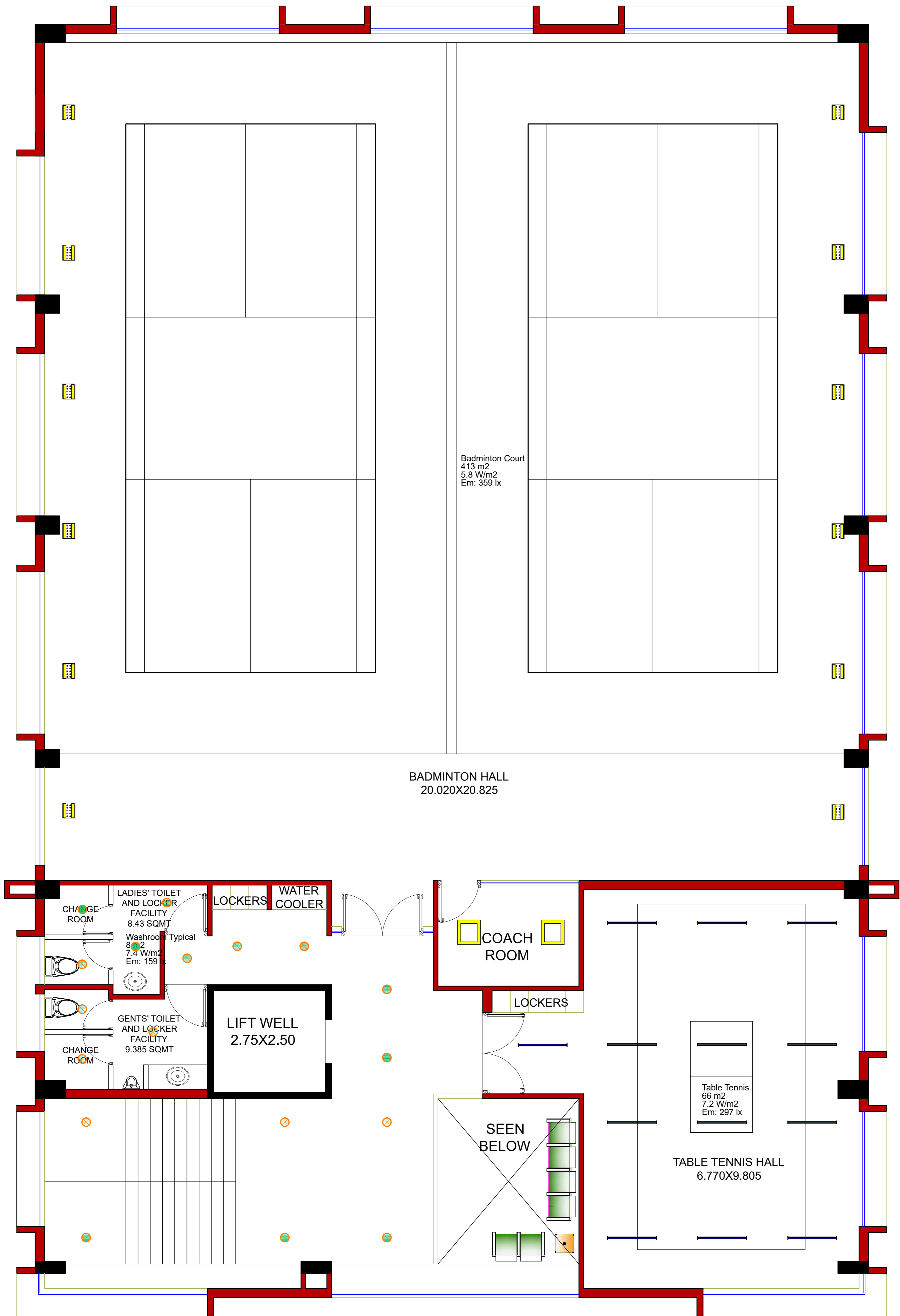
INDOOR LIGHTING PLAN FOR GROUND FLOOR...

LEGEND			
1		78 *	Wipro Surface Down Lighter 15 Watt 1500 Lumens
2		12 *	Wipro LED 200 Watt Flood Light 200 Watt 22000 Lumens
3		125 *	Wipro Lighting IP40 40 Watt LED Batten 4400 Lumens
4		16 *	Wipro Lighting 33 Watt Suspended Option Verge LED



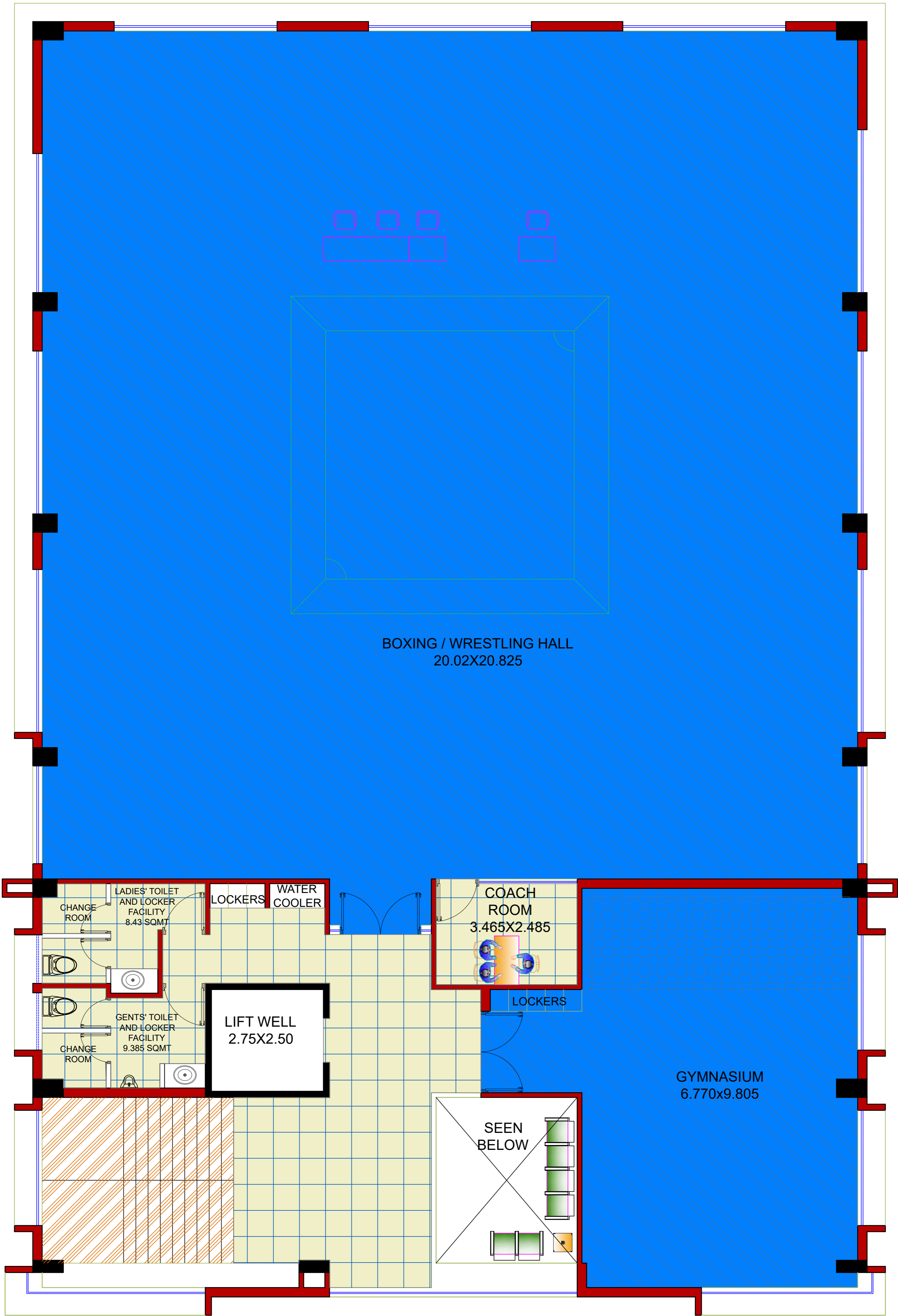
INDOOR LIGHTING PLAN FOR FIRST FLOOR...

LEGEND			
1		78 *	Wipro Surface Down Lighter 15 Watt 1500 Lumens
2		12 *	Wipro LED 200 Watt Flood Light 200 Watt 22000 Lumens
3		125 *	Wipro Lighting IP40 40 Watt LED Batten 4400 Lumens
4		16 *	Wipro Lighting 33 Watt Suspended Option Verge LED





INDOOR LIGHTING PLAN FOR SECOND FLOOR...


LEGEND			
1		78 *	Wipro Surface Down Lighter 15 Watt 1500 Lumens
2		12 *	Wipro LED 200 Watt Flood Light 200 Watt 22000 Lumens
3		125 *	Wipro Lighting IP40 40 Watt LED Batten 4400 Lumens
4		16 *	Wipro Lighting 33 Watt Suspended Option Verge LED




FLOORING INDEX:

 BWF Certified TARAFLEX® BADMINTON 7.5 thick vinyl badminton sports mats Surface treatment-100% PVC Surface treatment, Weigh 4.7KG/M2, Roll Length 26.4, w 1.5m, Shock absorption, EN 14808 > 25%. Vertical deformation<=3.5mm Sliding coefficient, Anti-bacterial activity(E. coli - S. aureus - MRSA), ISO 22196>99% inhibits growth,Abrasion resistance. EN ISO 5470-1<=350,Impact resistance, Impact sound insulation EN ISO 717-2, 19DB


 Natural rubber Rubber Tile Flooring, Thickness: 10-15 Mm, Size: 1 Meter By 1 Meter alongwith locking system.


 Surface Board Made of Imported Aacer Maple wood/Rebowood Hevea Species sports flooring as per specification and condition metioned below:- Aacer Maple wood/Rebowood Hevea, MFMA/FIBA/BWF approved Hard Maple/Rebowood Hevea wood Flooring 20mm thick each individual strip of Hard Maple/Rebowood Hevea.Flooring system shall have been independently tested to the International Standards: EN 14904 or MFMA, FIBA, BWF International Standards Minimum width of Aacer Hard Maple/Rebowood Hevea 25/32" x 2-1/4" Hard Maple/Rebowood Hevea flooring, MFMA, FIBA, BWF grade. MFMA, FIBA, BWF sports Flooring 25/32" x 2 1/4" (20mm x 57mm), Min. Expansion Space- 1 1/2" (38mm) , Wall Base: 3" x 4" (76mm x 101mm) Vent Cove Base, jointed together with the help of tongue and groove on all four sides of all boards. Substructure of mapple wood flooring shall consist of antitermite treated sleeper of Spruce or Nominal 2"x3"x4", Spruce, Pine or Fir with pads attached 12" on center laid perpendicular to the main flooring planks at a spacing 305mm centre to centre including 3/8" (10mm-19mm) rubber shock pads at 305mm centre to centre spacing. Vapour Barrier: 6 mil polyethylene installed over the concrete base beneath the flooring system as a vapor barrier between the concrete and wood floor. Machine sanding two coat of oil modified Polyurethane Gym sealer and one coats of oil modified Polyurethane Gym sports finish in accordance with manufacturer specification or prefinish from factory with 7 layers UV Lecquer and Game line marking in accordance with manufacturers specifications and project drawings etc. complete.

 Full body homogenous Vitrified tiles, 598mmx598mm, 9 mm thick , with water absorption less than 0.08 % and conforming to I.S. 15622, of RAK make (Retro series) , in ivory / LBR/ gray shade , in floor, over 12 mm thick bed of cement mortar 1:3 (1 cement: 3 coarse sand), including grouting the joint with white cement & matching pigments etc. complete.

 JOHNSON ENDURA ORIENT BLUE size= 247X122

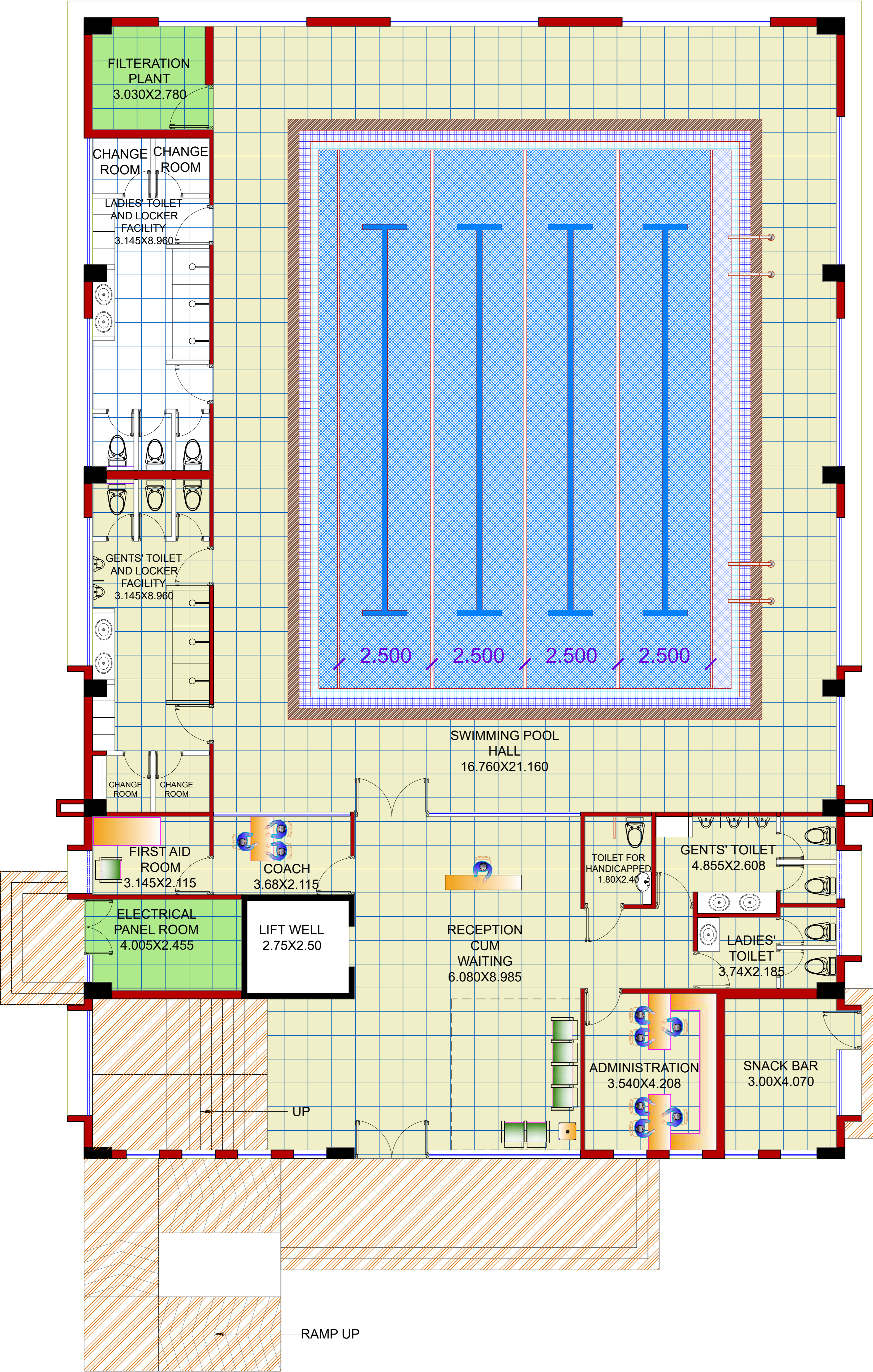
 JOHNSON ENDURA DARK BLUE size= 247X122

 Flamed granite with leather finish (Shade Royal Brown)

 25 mm th. Kota stone slab flooring over 20 mm (average) thick base laid over and jointed with grey cement slurry mixed with pigment to match the shade of the slab, including rubbing and polishing complete with base of cement mortar 1 : 4 (1 cement : 4 coarse sand) :

TOILET WALL TILES:-
Ist quality 300 x 300 mm ceramic glazed wall tiles conforming to IS: 15622 (thickness to be specified by the manufacturer), of NITCO , Rustic series (Jaipur Moti/ Jaipur Coral Shade) in dados, over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm, including pointing in white cement mixed with pigment of matching shade complete.

KEY LAYOUT OF FLOORING SPECIFICATIONS
FOR FIRST FLOOR...



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BWF Certified TARAFLEX® BADMINTON 7.5 thick vinyl badminton sports mats Surface treatment-100% PVC Surface treatment, Weigh 4.7KG/M2, Roll Length 26.4, w 1.5m, Shock absorption, EN 14808 > 25%. Vertical deformation<=3.5mm Sliding coefficient, Anti-bacterial activity(E. coli - S. aureus - MRSA), ISO 22196>99% inhibits growth,Abrasion resistance. EN ISO 5470-1<=350,Impact resistance, Impact sound insulation EN ISO 717-2, 19DB

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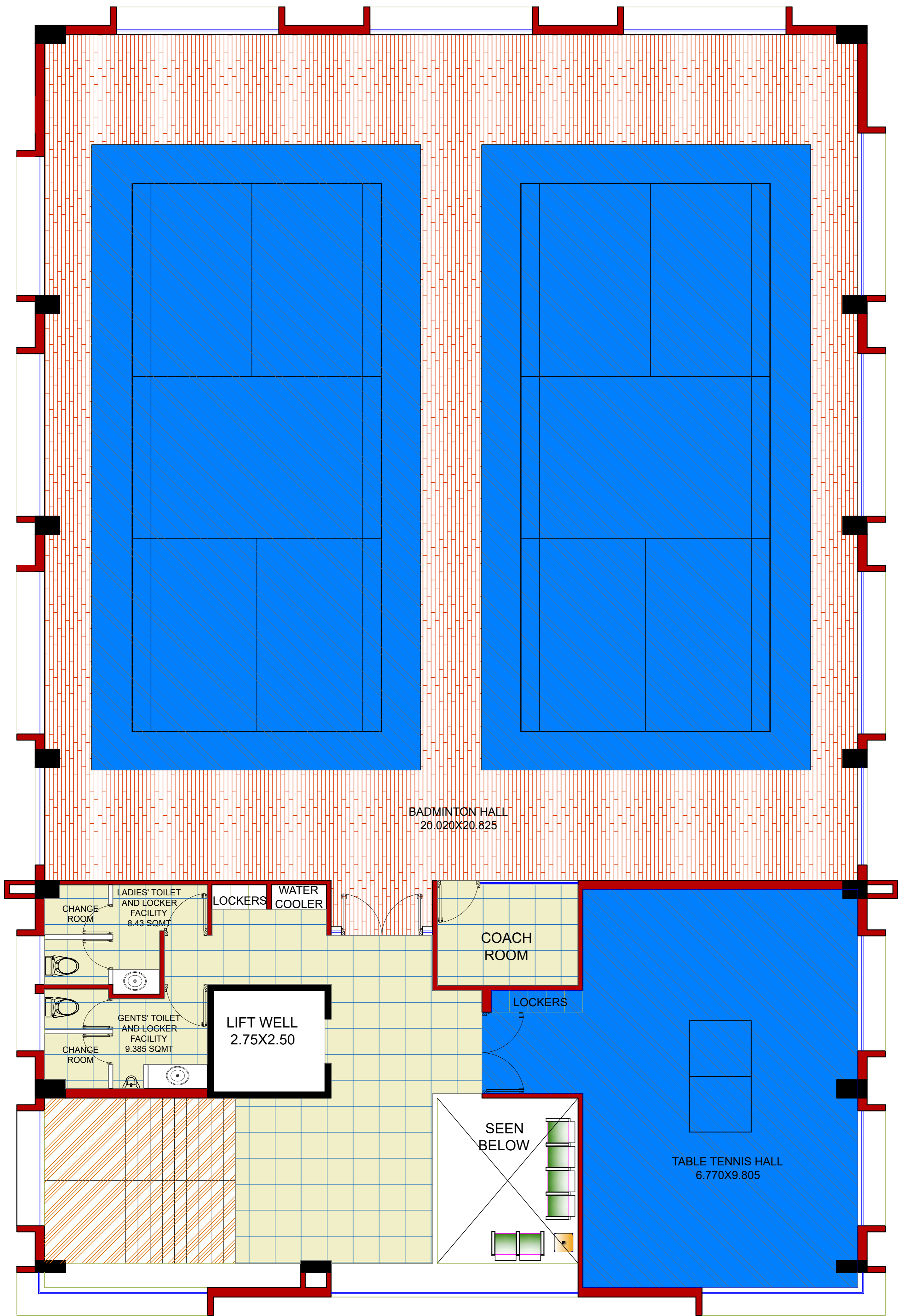
JOHNSON ENDURA DARK BLUE size= 247X122

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Natural rubber Rubber Tile Flooring, Thickness: 10-15 Mm, Size: 1 Meter By 1 Meter alongwith locking system.

Surface Board Made of Imported Aacer Maple wood/Rebowood Hevea Species sports flooring as per specification and condition metioned below:- Aacer Maple wood/Rebowood Hevea, MFMA/FIBA/BWF approved Hard Maple/Rebowood Hevea wood Flooring 20mm thick each individual strip of Hard Maple/Rebowood Hevea.Flooring system shall have been independently tested to the International Standards: EN 14904 or MFMA, FIBA, BWF International Standards Minimum width of Aacer Hard Maple/Rebowood Hevea 25/32" x 2-1/4" Hard Maple/Rebowood Hevea flooring, MFMA, FIBA, BWF grade. MFMA, FIBA, BWF sports Flooring 25/32" x 2 1/4" (20mm x 57mm), Min. Expansion Space- 1 1/2" (38mm) , Wall Base: 3" x 4" (76mm x 101mm) Vent Cove Base, jointed together with the help of tongue and groove on all four sides of all boards. Substructure of mapple wood flooring shall consist of antitermite treated sleeper of Spruce or Nominal 2"x3"x4", Spruce, Pine or Fir with pads attached 12" on center laid perpendicular to the main flooring planks at a spacing 305mm centre to centre including 3/8" (10mm-19mm) rubber shock pads at 305mm centre to centre spacing. Vapour Barrier: 6 mil polyethylene installed over the concrete base beneath the flooring system as a vapor barrier between the concrete and wood floor. Machine sanding two coat of oil modified Polyurethane Gym sealer and one coats of oil modified Polyurethane Gym sports finish in accordance with manufacturer specification or prefinish from factory with 7 layers UV Lecquer and Game line marking in accordance with manufacturers specifications and project drawings etc. complete.

Full body homogenous Vitrified tiles, 598mmx598mm, 9 mm thick , with water absorption less than 0.08 % and conforming to I.S. 15622, of RAK make (Retro series) , in ivory / LBR/ gray shade , in floor, over 12 mm thick bed of cement mortar 1:3 (1 cement: 3 coarse sand), including grouting the joint with white cement & matching pigments etc. complete.

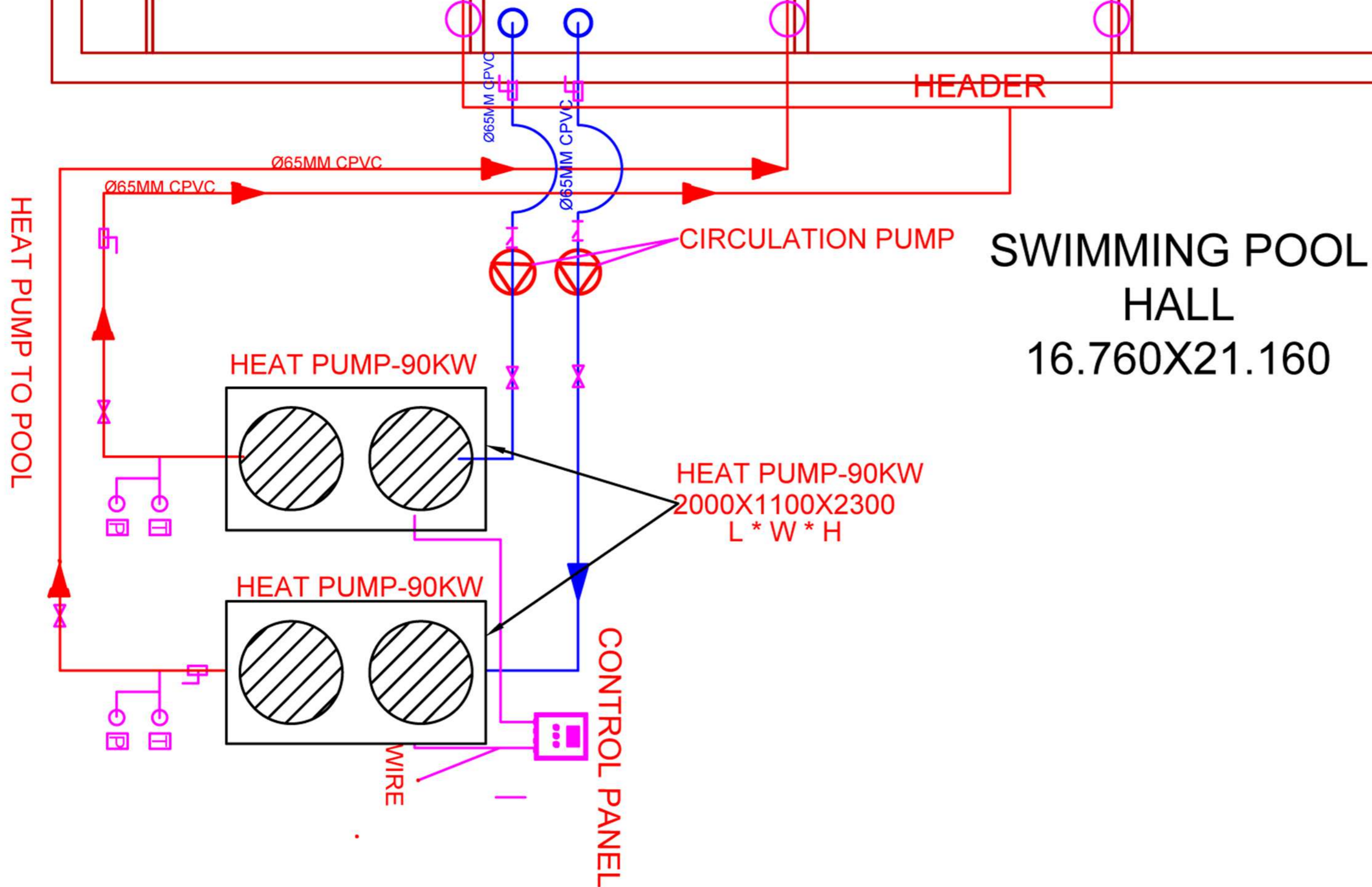
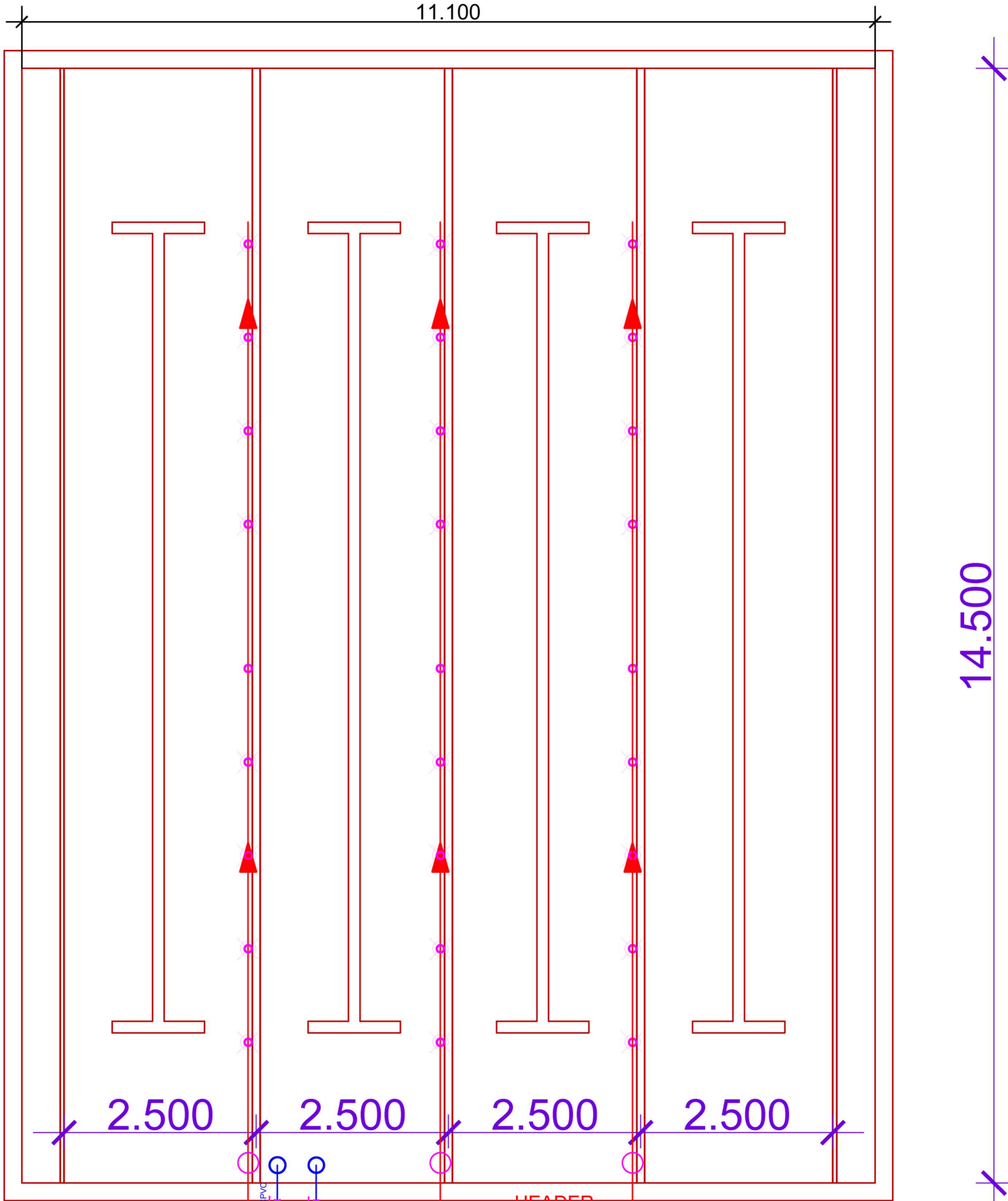
JOHNSON ENDURA ORIENT BLUE size= 247X122

JOHNSON ENDURA DARK BLUE size= 247X122

Flamed granite with leather finish (Shade Royal Brown)

25 mm th. Kota stone slab flooring over 20 mm (average) thick base laid over and jointed with grey cement slurry mixed with pigment to match the shade of the slab, including rubbing and polishing complete with base of cement mortar 1 : 4 (1 cement : 4 coarse sand) :

TOILET WALL TILES:-
1st quality 300 x 300 mm ceramic glazed wall tiles conforming to IS: 15622 (thickness to be specified by the manufacturer), of NITCO , Rustic series (Jaipur Moti/ Jaipur Coral Shade) in dados, over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm, including pointing in white cement mixed with pigment of matching shade complete.

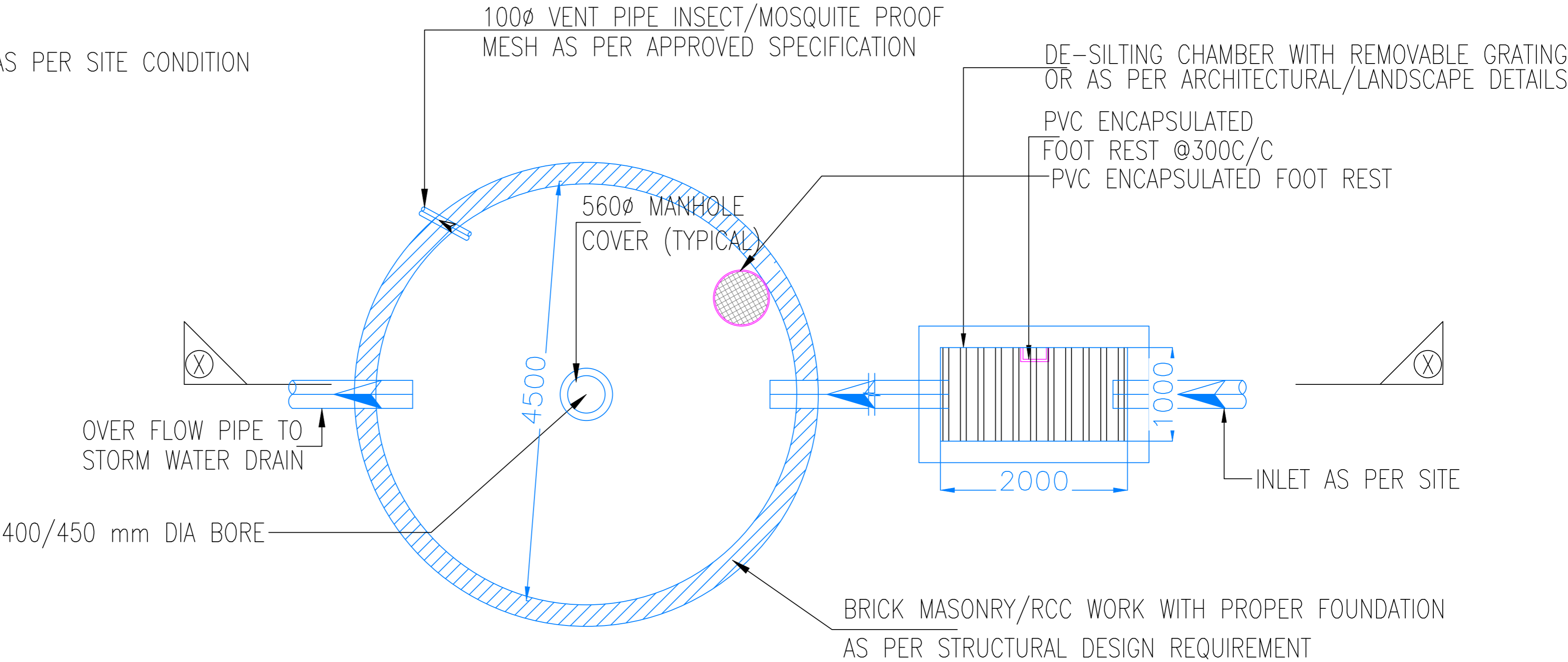


	PUMP
	TEMP. GAUGE
	PRESS. GAUGE
	Y-STRAINER
	NRV
	GATE VALVE
HEAT PUMP SIZE:-2000 x 1100 x 2300mm.	

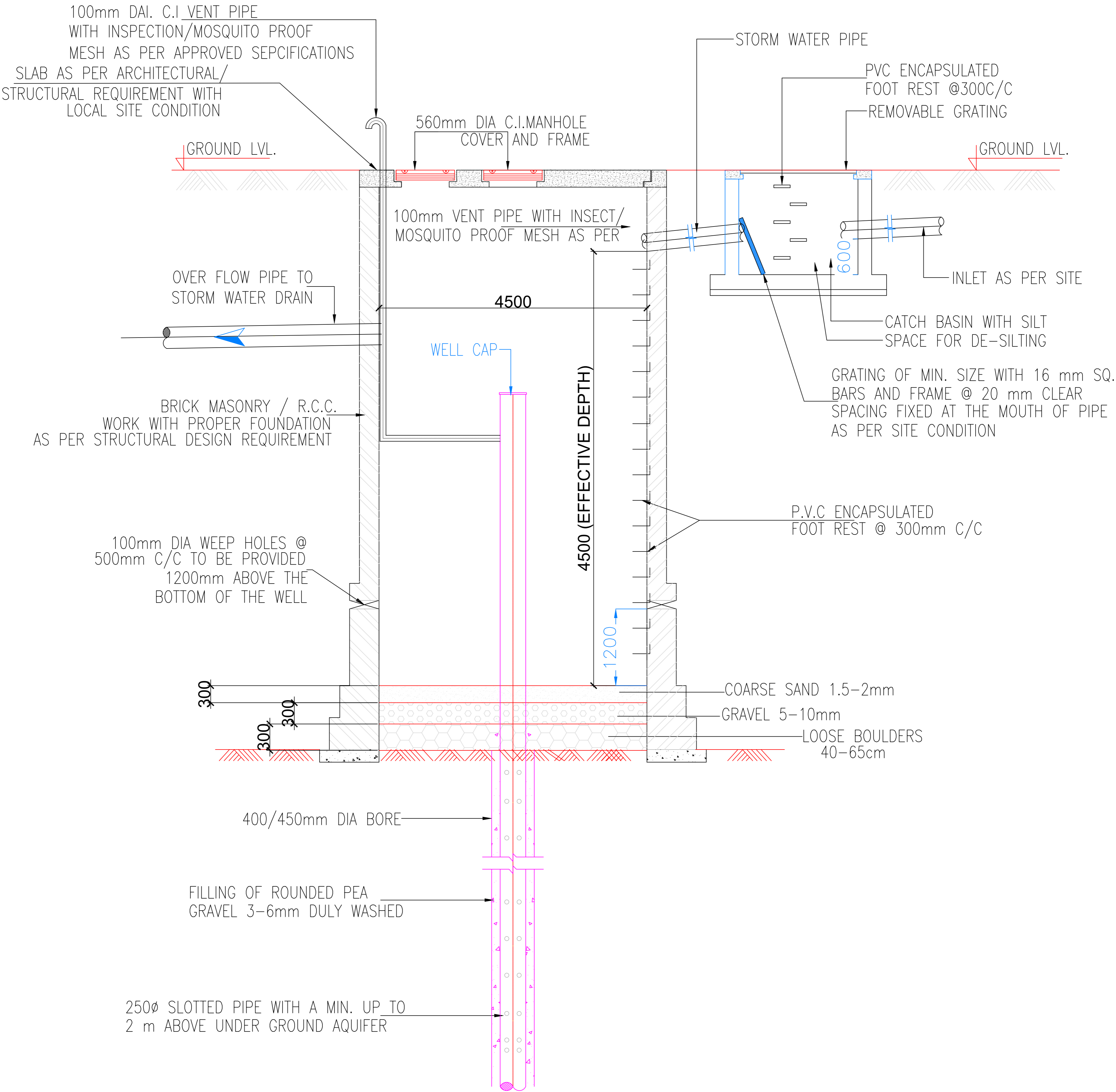
SWIMMING POOL HEAT PUMP LAYOUT PLAN

DIA	EFF.DEPTH (D)
4.5 m	4.5 m

THE DIMENSION MAY CHANGE AS PER SITE CONDITION

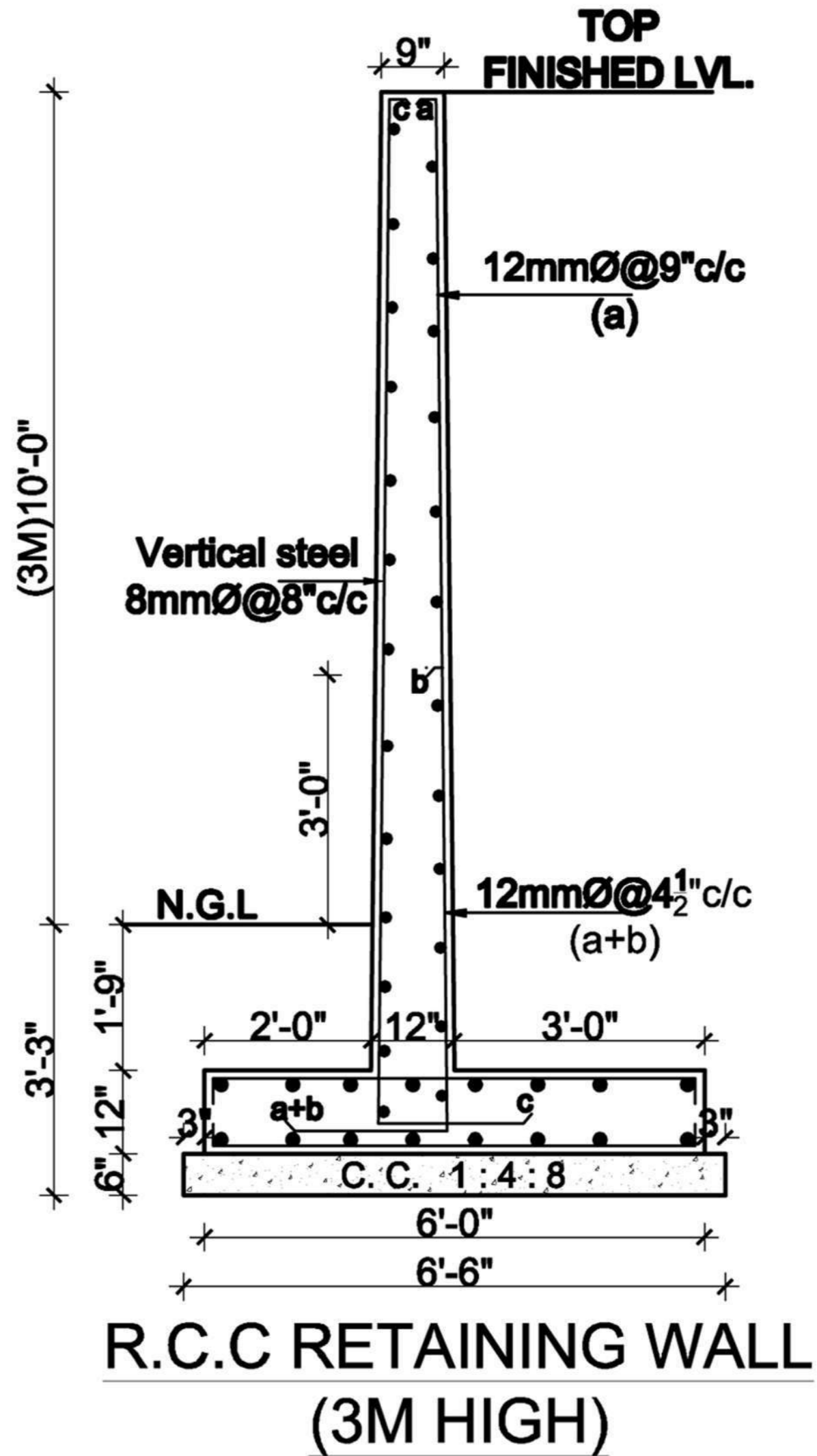
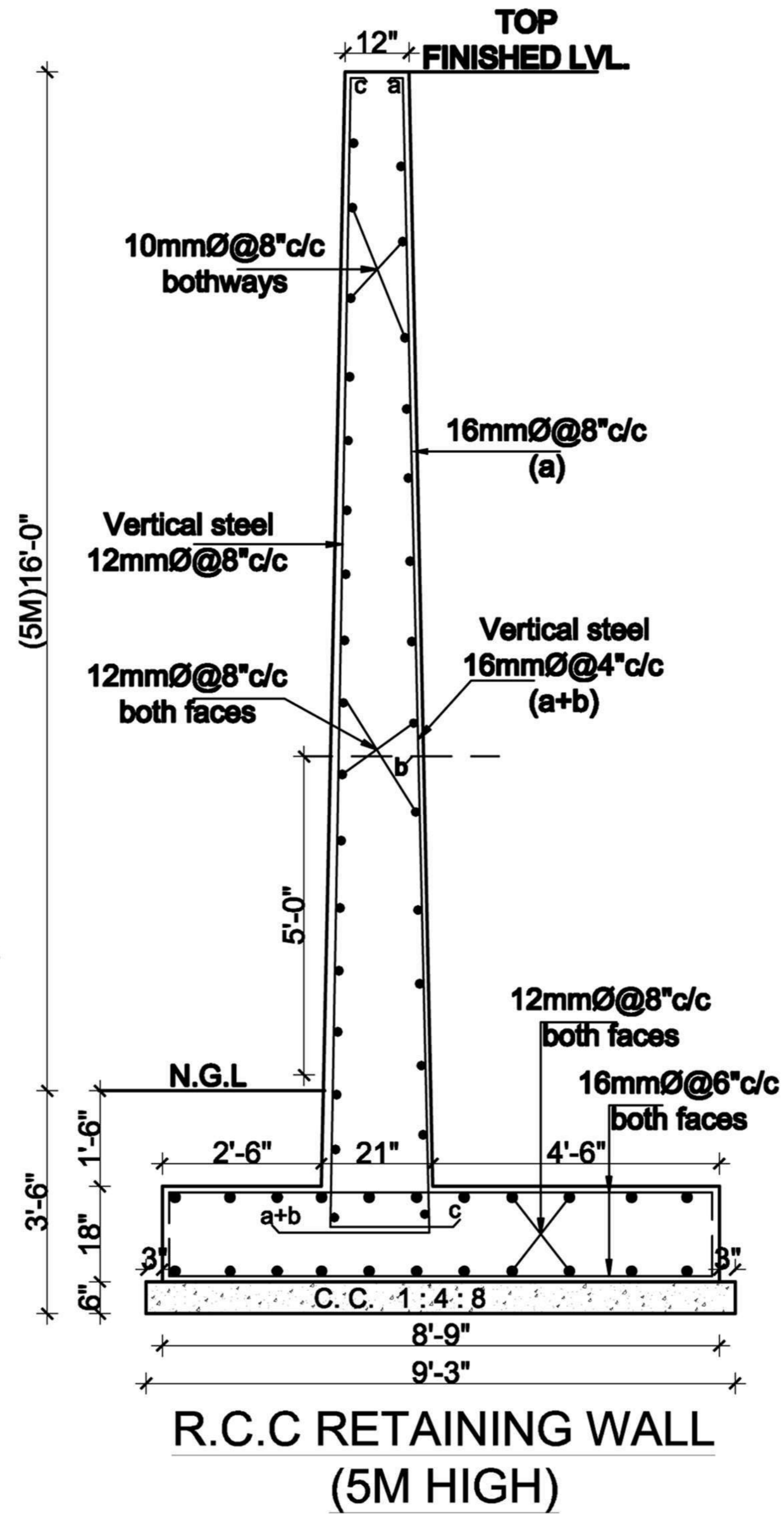
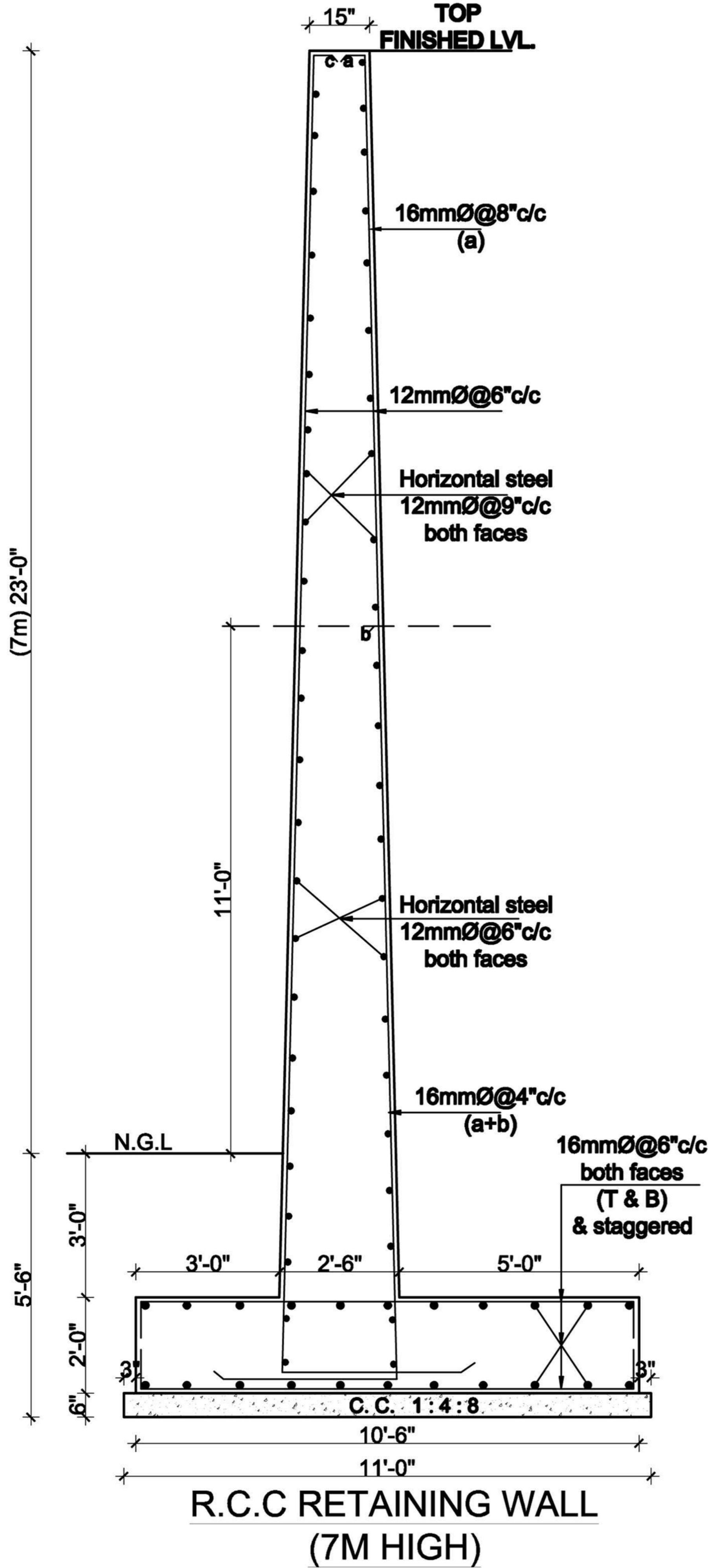


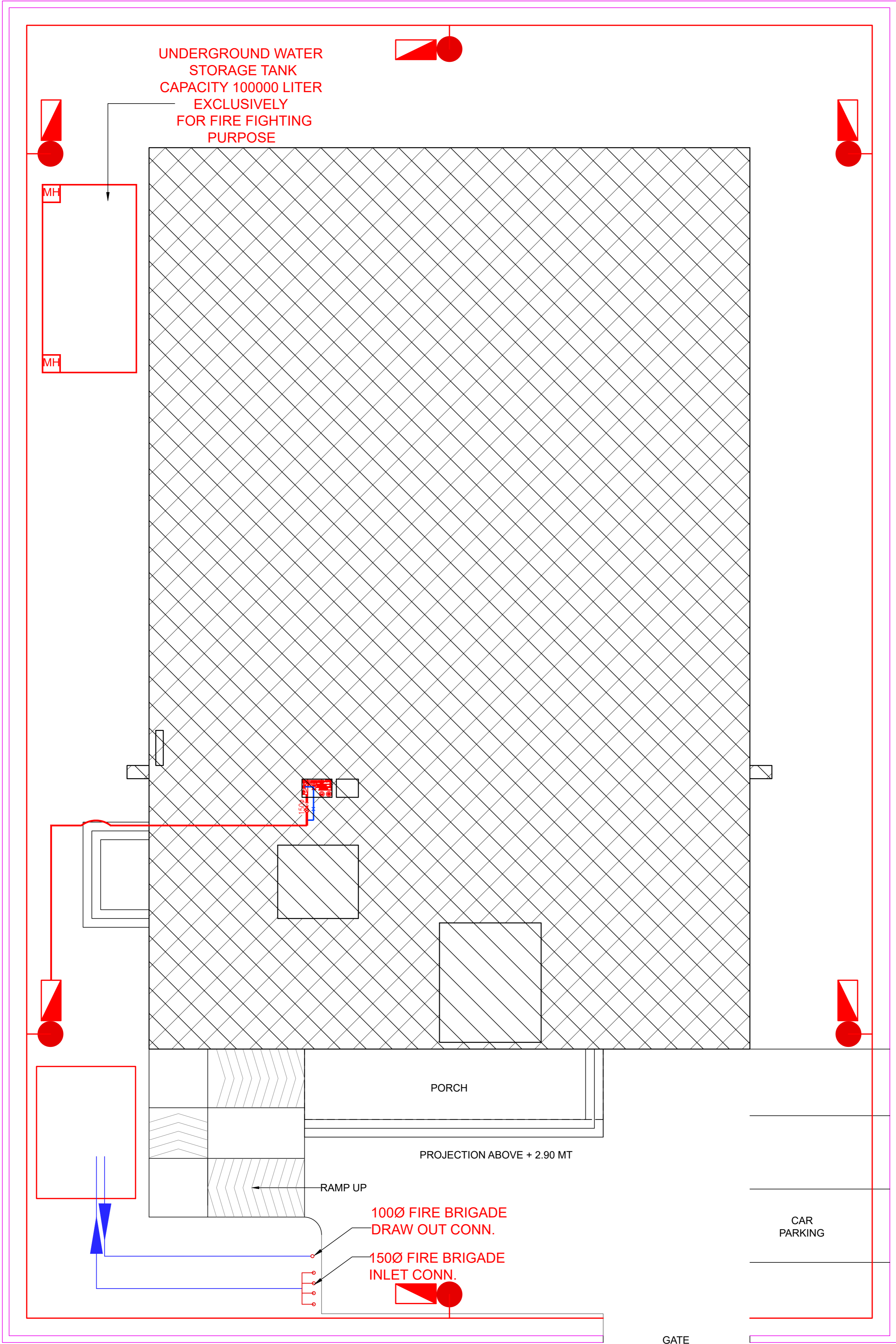
RAIN WATER HARVESTING PIT PLAN



SECTION=(X-X)

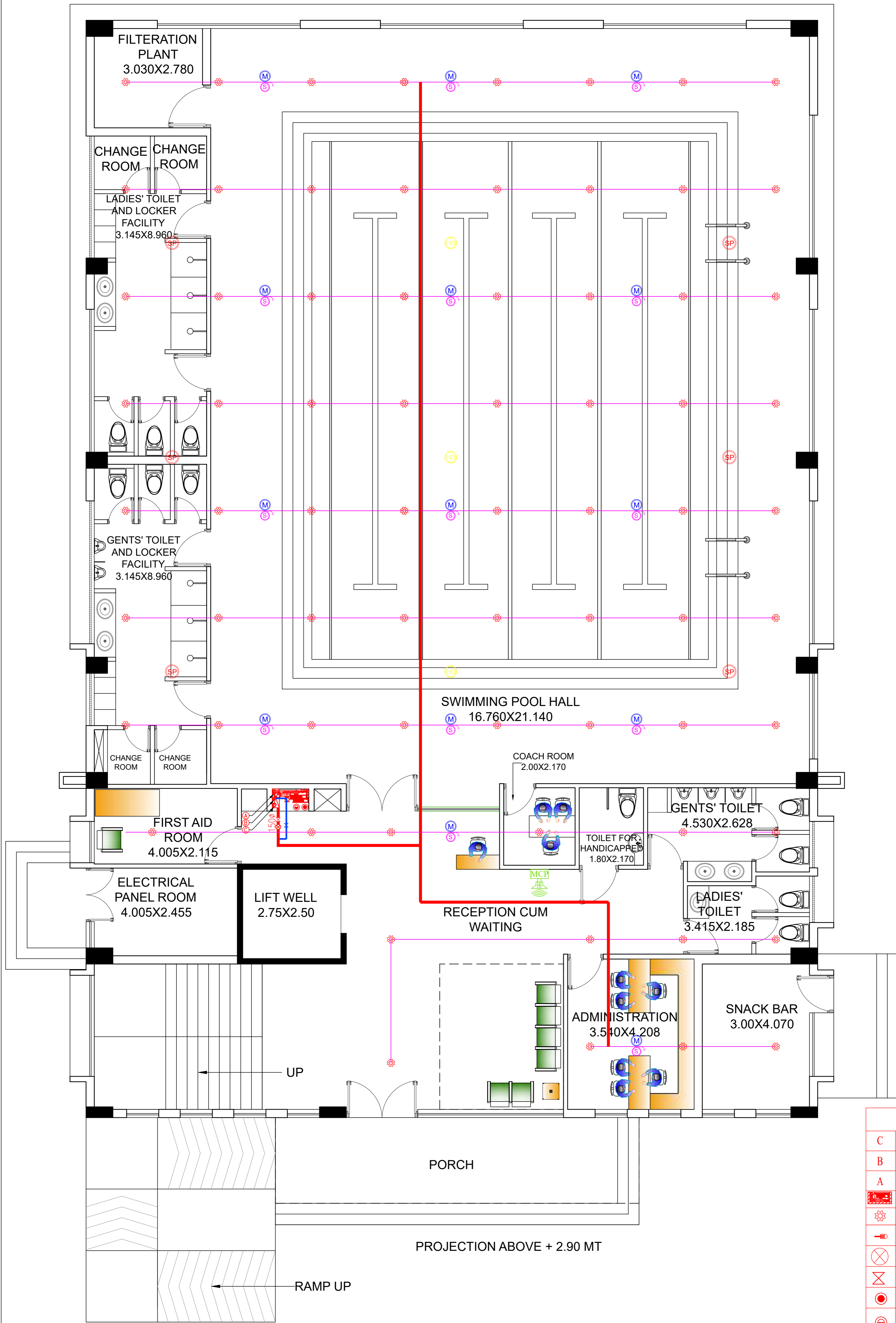
NOTE :-
1. WEEP HOLES SHALL BE PROVIDED AT 2.0M C/C APPROX INTERVALS BOTH VERTICALLY & HORIZONTALLY IN STAGGERED POSITION & 3" DIA PIPE SHOULD BE USED, THE LOWEST BEING 30CM FROM THE GROUND LEVEL.





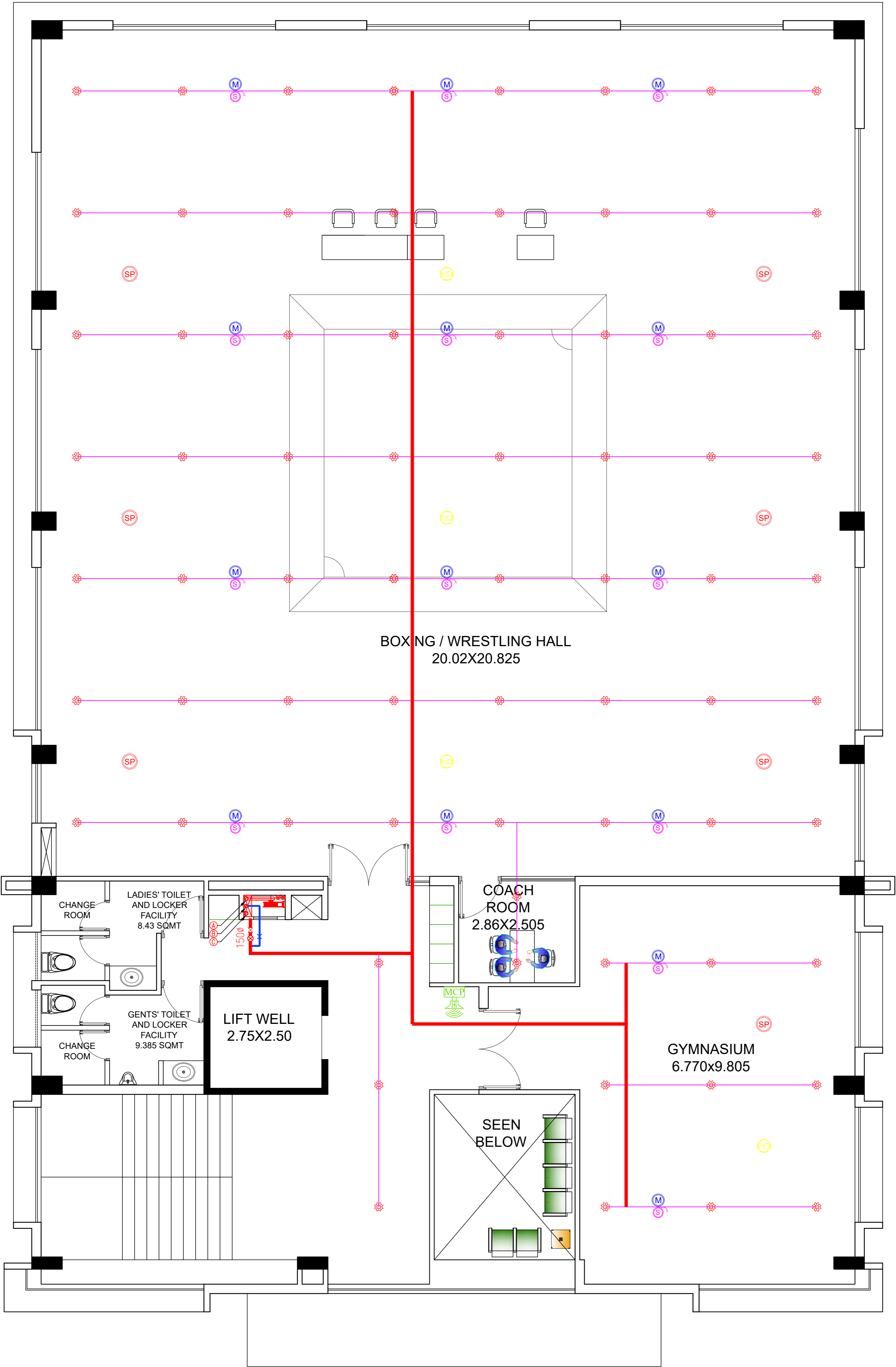
FIRE FIGHTING FACILITY LAYOUT FOR SITE PLAN

LEGEND	
YARD HYDRANT	
WET RISER SUPPLY	
4 WAY VALVE	
YARD HYDRANT SUPPLY	



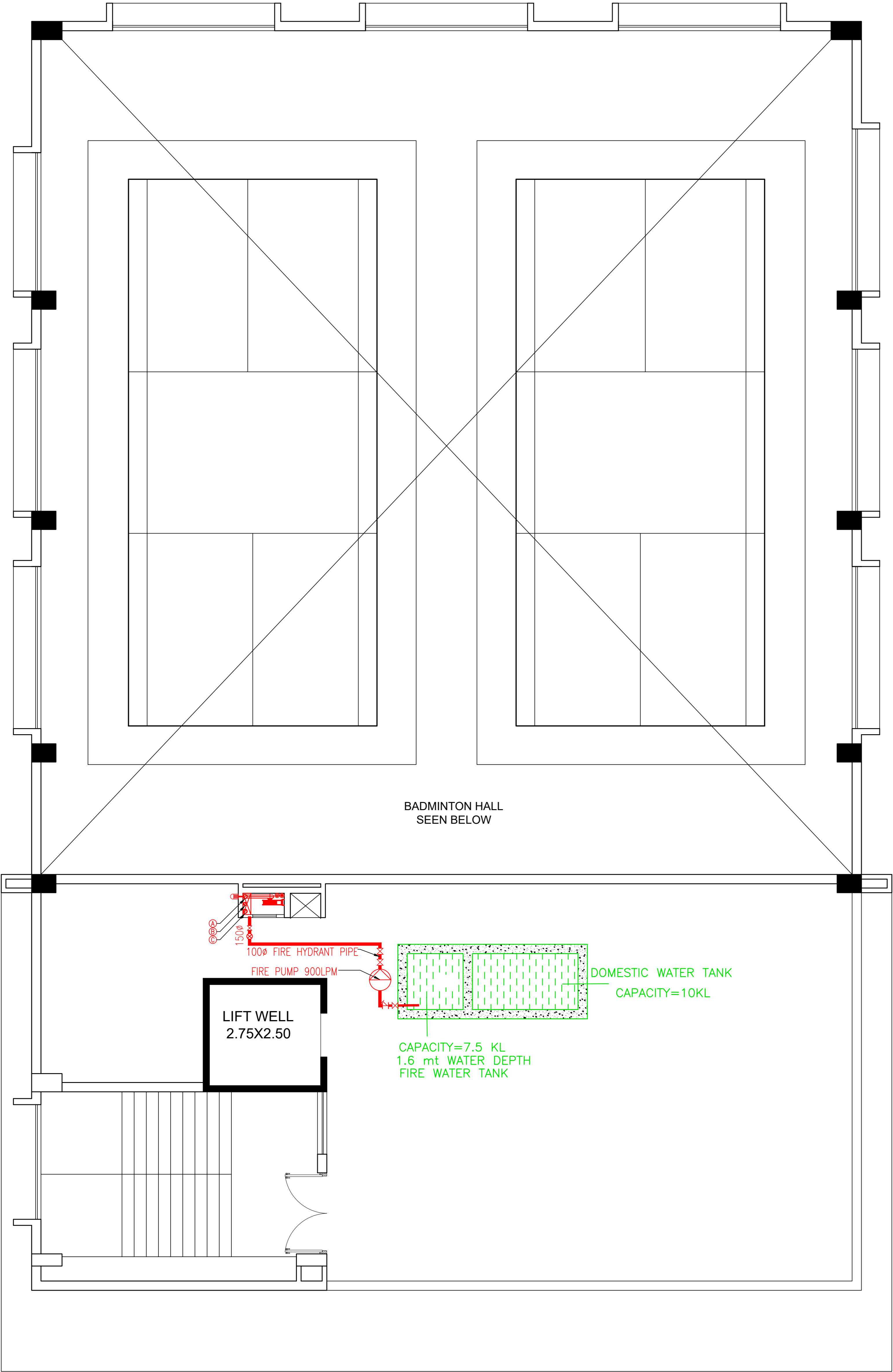
**FIRE FIGHTING AND FIRE ALARM LAYOUT
FOR GROUND FLOOR PLAN**

FIRE FIGHTING LEGEND:-	
C	1500 M.S SPRINKLER RISER PIPE
B	800 M.S DRAIN PIPE
A	1000 M.S HYDRANT PIPE
	FIRE HOSE CABINET
	PENDENT SPRINKLER
	AIR RELEASE VALVE
	FLOW SWITCH
	VALVE
	CO2 TYPE FIRE EXTINGUISHER
	ABC TYPE FIRE EXTINGUISHER
	MULTI DETECTOR
	SMOKE DETECTOR WITH RESPONSE INDICATOR
	MANUAL CALL POINT
	HEAT DETECTOR
	SPEAKER



**FIRE FIGHTING AND FIRE ALARM LAYOUT
FOR FIRST FLOOR PLAN**

FIREFIGHTING LEGEND:-	
C	1500 M.S SPRINKLER RISER PIPE
B	800 M.S DRAIN PIPE
A	1000 M.S HYDRANT PIPE
	FIRE HOSE CABINET
	PENDENT SPRINKLER
	AIR RELEASE VALVE
	FLOW SWITCH
	VALVE
	CO2 TYPE FIRE EXTINGUISHER
	ABC TYPE FIRE EXTINGUISHER
	MULTI DETECTOR
	SMOKE DETECTOR WITH RESPONSE INDICATOR
	MANUAL CALL POINT
	HEAT DETECTOR
	SPEAKER



TERRACE PLAN FIRE FIGHTING LAYOUT...

FIREFIGHTING LEGEND:-	
C	150Ø M.S SPRINKLER RISER PIPE
B	80Ø M.S DRAIN PIPE
A	100Ø M.S HYDRANT PIPE
	FIRE HOSE CABINET
	PENDENT SPRINKLER
	AIR RELEASE VALVE
	FLOW SWITCH
	VALVE
	CO2 TYPE FIRE EXTINGUISHER
	ABC TYPE FIRE EXTINGUISHER
	MULTI DETECTOR
	SMOKE DETECTOR WITH RESPONSE INDICATOR
	MANUAL CALL POINT
	HEAT DETECTOR
	SPEAKER