C CAST–IN–PLACE CONCRETE

C.1 ALL CONCRETE WORK SHALL CONFORM TO IS456–2000 CODE REQUIREMENTS FOR STRUCTURAL CONCRETE.

C.2 CONCRETE : UNLESS OTHERWISE NOTED, ALL CONCRETE SHALL BE NORMAL WEIGHT (STONE) CONCRETE HAVING A MINIMUM GRADE M25 FOR FOUNDATIONS, PEDESTALS, PLINTH BEAMS, WALLS ETC. THAT REMAINS IN CONTACT WITH SOIL / WATER.

C.3 REINFORCING : BAR REINFORCING SHALL BE DEFORMED BARS OF Fe 500 GRADE U.O.N.

C.4 ALL REINFORCING SHALL BE HELD RIGIDLY AND ACCURATELY IN PLACE, AND PROTECTED AGAINST DISPLACEMENT BEFORE AND DURING CASTING. IF NECESSARY, ADDITIONAL BARS AND/OR STIRRUPS SHALL BE PROVIDED TO FURNISH SUPPORT FOR ALL REINFORCING.

C.5 IF ANY PIPES OR CONDUITS WHICH ARE NOT PREDEFINED IN ARCH/MEP DRGS ARE TO BE PLACED IN SLABS, THE GENERAL CONTRACTOR OR CONSTRUCTION MANAGER, PRIOR TO THE START OF WORK, SHALL SUBMIT TO THE ARCHITECT FOR APPROVAL DRAWINGS SHOWING THE SIZE, LOCATION (VERTICALLY AND HORIZONTALLY) AND SPACING OF PIPES AND/OR CONDUITS.

C.7 GENERALLY, PIPES OR CONDUITS PLACED IN SLABS SHOULD NOT BE LARGER THAN 1/3 THE SLAB THICKNESS AND SHOULD NOT BE SPACED CLOSER THAN 3 DIAMETERS ON CENTER

C.8 ALL BEAMS AND SLABS SHALL BE CAST MONOLITHICALLY, AND THE SLABS FINISHED AS REQUIRED BY THE SPECIFICATIONS.

C.9 CONSTRUCTION JOINTS IN SLABS BEAMS, JOISTS AND WALLS SHALL BE COORDINATED BY THE PROJECT MANAGER AS PER SCHEDULE OF EXECUTION, MEANS AND METHODS OF THE CONTRACTOR.

C.10 SLABS ON GROUND SHALL BE CAST OVER A 150mm LAYER OF COMPACTED POROUS FILL, UNLESS OTHERWISE SHOWN. THE THICKNESS OF THE SLAB SLAB ON GRADE SHALL BE 125mm (U.O.N. SHOWN ON PLANS). PROVIDE 8# @ 150C/C E.W. PLACED 1" FROM TOP OF SLAB IN ALL SLABS ON GROUND UNLESS OTHERWISE NOTED ELSEWHERE. SLABS SHALL BE CAST IN ALTERNATE PANELS NOT EXCEEDING 12m IN ANY LENGTH OR WIDTH.

C.11 CURING OF CONCRETE SHALL START AS SOON AS THE FINISH WILL NOT BE MARRED THEREBY. IT SHALL NOT BE PERMISSABLE TO DELAY THE CURING UNTIL THE MORNING AFTER THE CONCRETE IS CAST.

F FOUNDATION WORK

F.1 THE GENERAL CONTRACTOR OR CONSTRUCTION MANAGER AND/OR THE FOUNDATION CONTRACTOR SHALL BE SOLELY AND FULLY RESPONSIBLE FOR ALL EXCAVATION WORK INCLUDING BUT NOT LIMITED TO THE DESIGN, INSTALLATION AND MAINTENANCE OF SHEETING AND SHORING, PROTECTION OF SLOPES, UNDERPINNING AND DEWATERING.

F.2 FOUNDATION WALLS AND/OR GRADE BEAMS, SHALL BE TEMPORARILY BRACED LATERALLY TO RESIST EARTH PRESSURE, WIND, CONSTRUCTION LOADS AND OTHER LATERAL LOADS UNTIL FRAMED SLABS AND SLABS ON GRADE THAT PERMANENTLY BRACE THESE WALLS AND/OR GRADE BEAMS HAVE BEEN IN PLACE 28 DAYS (MINIMUM).

F.3 TRUCKS, BULLDOZERS OR OTHER HEAVY EQUIPMENT SHALL NOT BE PERMITTED CLOSER THAN 8'–0" FROM ANY FOUNDATION WALL BEFORE SUPPORTING STRUCTURAL FRAME IS IN PLACE.

G GENERAL

G.1 THE STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH THE ARCHITECTURAL AND MEP DRAWINGS.

G.2 BEFORE PROCEEDING WITH ANY WORK, THE GENERAL CONTRACTOR OR CONSTRUCTION MANAGER SHALL VERIFY THAT ALL MAJOR DIMENSIONS SHOWN ON STRUCTURAL DRAWINGS ARE THE SAME AS SHOWN ON ARCHITECTURAL DRAWINGS AND THAT EXISTING CONDITIONS ARE AS INDICATED. ANY VARIANCES SHALL BE BROUGHT TO THE ARCHITECT'S ATTENTION.

G.3 THE GENERAL CONTRACTOR OR CONSTRUCTION MANAGER SHALL BE RESPONSIBLE FOR COORDINATION BETWEEN TRADES INCLUDING BUT NOT LIMITED TO THE LOCATION OF SLOTS, TRENCHES AND SLEEVES AS REQUIRED FOR THE MECHANICAL OR OTHER TRADES AND THE PROVISION AND/OR INSTALLATION OF ANCHORS, INSERTS, HANGERS, ETC. AS REQUIRED FOR THE VARIOUS TRADES.

G.4 CONTROL OVER OR CHARGE OF AND RESPONSIBILITY FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES, OR FOR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK OF THE PROJECT ARE SOLELY THE GENERAL CONTRACTOR'S OR CONSTRUCTION MANAGER'S RESPONSIBILITY.

G.5 THE GENERAL CONTRACTOR OR CONSTRUCTION MANAGER SHALL BE SOLELY AND FULLY RESPONSIBLE FOR THE SAFETY AND STABILITY OF EXISTING ADJACENT STRUCTURES INCLUDING BUT NOT LIMITED TO BUILDINGS, SIDEWALKS, ROADWAYS AND UTILITIES AND FOR ANY METHODS REQUIRED TO ENSURE THAT SAFETY AND STABILITY.

G.6 THE DESIGN, CONSTRUCTION, INSPECTION AND MAINTENANCE OF TEMPORARY STRUCTURES OR PROCEDURES INCLUDING BUT NOT LIMITED TO SUPPORT FOR AND STABILITY OF CRANES OR HOISTS OR LIFTS OR OTHER SIMILAR EQUIPMENT, TEMPORARY GUYING OR BRACING, SCAFFOLDING, FORMWORK OR SHORING, DEWATERING, SHEETING OR UNDERPINNING, CONSTRUCTION STORAGE OR STAGING AREAS, SIDEWALK BRIDGES OR CONSTRUCTION FENCES, TEMPORARY ENCLOSURES AT OPENINGS, AT THE BUILDING'S PERIMETER, OR ELSEWHERE, ETC., ARE SOLELY THE RESPONSIBILITY OF THE GENERAL CONTRACTOR OR CONSTRUCTION MANAGER AND/OR CONTRACTORS AND/OR CONSULTANTS RETAINED BY THE GENERAL CONTRACTOR OR CONSTRUCTION MANAGER.

G.7 THE GENERAL CONTRACTOR OR CONSTRUCTION MANAGER SHALL BE RESPONSIBLE FOR UP KEEPING RECORDS FOR TESTING OF MATERIALS USED AS PER RELEVANT CODAL PROVISIONS AND WILL MAINTAIN RECORD OF MATERIAL CONSUMPTION DURING EXECUTION.

GENERAL NOTES:-

- THIS DRG. TO BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT ARCHITECTURAL AND SERVICES DRGS.
- ALL DIMENSIONS ARE IN MILLIMETERS AND LEVELS ARE IN METERS.
- DRAWINGS SHALL NOT BE SCALED AND ONLY WRITTEN DIMENSIONS TO BE FOLLOWED.
- CONTRACTOR TO CHECK AND VERIFY ALL DIMENSIONS AND REPORT ANY DISCREPANCY BEFORE EXECUTION OF WORK TO THE CONSULTANT.
- ALL DIMENSIONS / LEVELS & CUTOUTS SHALL BE CHECKED AS PAR ARCHITECTURAL AND SERVICES DRGS.
- BEFORE STARTING EXCAVATION PLEASE REFER TO THE SITE LAYOUT PLAN.

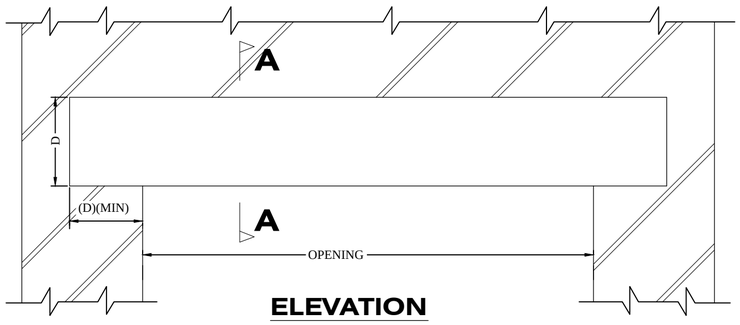
SPECIAL NOTE:-

- CONCRETE GRADE SHALL BE M20 WITH MINIMUM CHARACTERISTIC COMPRESSIVE STRENGTH OF 20N/mm² UNLESS OTHERWISE SPECIFIED.
- REINF. BAR SHALL BE OF GRADE Fe 500D CONFORMING TO IS 1786 WITH MINIMUM YIELD STRENGTH OF 500 N/mm².
- CLEAR COVER TO MAIN REINF. BARS SHALL BE AS FOLLOWS :
  RAFT = 50MM,
  COLUMNS = 40MM,
  RET. WALLS = 30MM ON EARTH SIDE, 25MM ON INSIDE
  SLAB = 25MM,
  BEAMS = 30MM.
  COVER BLOCKS AND CHAIR SHALL BE PROVIDED TO KEEP THE BARS IN POSITION.
- LAPS
  – NUMBER OF LAPS SHALL BE MINIMUM AND ALL LAPPING, JOGGLING, BENDING etc. SHALL CONFIRM TO IS–456 AND IS–2502.
  – DO NOT LAP MORE THAN 33% OF THE BARS AT ONE FACE OF THE MEMBER SUBJECT TO MAXIMUM OF 50% OF BARS AT THAT SECTION.
- DEVELOPMENT LENGTH (Ld) FOR FULLY STRESS DEFORMED BARS OF STEEL GRADE OF Fe 500 SHALL BE AS FOLLOWS
  – FOR M20 CONC. GRADE = 57 x BAR DIA.
  – FOR M25 CONC. GRADE = 49 x BAR DIA.
- SAFE BEARING CAPACITY OF SOIL HAS BEEN TAKEN AS 18.5 T / SQ.M AT 2.0M BELOW EXISTING GROUND LEVEL FOR FOUNDATION DESIGN AS PER SOIL REPORT.
- ALL LOOSE POCKETS OF EARTH FOUND IN EXCAVATION PIT BELOW FOUNDATION AREA SHALL BE REPLACED BY LEAN CONCRETE (1:4:8).
- FOUNDATION SYSTEM AND COLUMNS HAS BEEN DESIGNED FOR TWO BASEMENT + GROUND FLOOR + EIGHT FLOORS + ONE FUTURE FLOOR.
- FOR GENERAL NOTES REFER DRG. NO. GN–S–01.

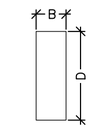
LINTEL SCHEDULE:

1200	250 X 100	2-100#	2-80#	60#-150C/C	FOR PARTITION WALLS IN FRAMED STRUCTURE
1800	250 X 150	2-120#	2-80#	60#-150C/C	
2400	250 X 200	2-120#	2-80#	60#-150C/C	
3000	250 X 230	3-120#	2-80#	60#-150C/C	
3600	250 X 300	2-160#	2-80#	60#-150C/C	
4200	250X 300	2-160#+1-120#	2-80#	60#-150C/C	

1200	125 X 100	2-80#	2-80#	60#-150C/C	FOR 125 THK PARTITION WALLS
1800	125 X 150	2-100#	2-80#	60#-150C/C	



ELEVATION



SECTION A-A

Notes	Project	Principal Consultants	Healthcare Design Consultants	Drawing Title			Drawing no.	Revision
1. This drawing is prepared exclusively for Nagaland Medical College, Kohima under Nagaland Health Project and cannot be used for any other purpose. 2. All dimensions are in millimeters (unless otherwise mentioned). 3. All dimensions shall be read and not measured or scaled. 4. Any error / discrepancy in the drawing shall be brought to the notice of consultants.	Nagaland Medical College, Kohima	IMS Health	**helix** healthcare architecture	GENERAL NOTES AND DETAILS MEDICAL COLLEGE			NMCK/S/MC/03	
							Scale	Date
					REV. NO.	DATE	NTS	09-10-2017