



GENERAL NOTES FOR STRUCTURAL STEEL WORK:

- ALL DIMENSIONS ARE IN MILLI METERS AND ALL LEVELS ARE IN METERS. UNLESS OTHERWISE SPECIFIED.
- DESIGN, FABRICATION AND ERECTION IN GENERAL SHALL CONFORM TO IS: 800 AND TECHNICAL SPECIFICATION.
- WELDING IN GENERAL SHALL CONFORM TO IS: 816, IS: 823 AND IS: 9595.
- ALL STRUCTURAL STEEL WORKS SHALL BE OF MILD STEEL CONFORMING TO THE FOLLOWING CODES.
STRUCTURAL SHAPES IS: 2062 (GRADE A)
PLATE BELOW 20mm THICKNESS IS: 2062 (GRADE A)
PLATE ABOVE 20mm THICKNESS IS: 2062 (GRADE B)
- ELECTRODES USED SHALL GENERALLY CONFORM TO IS: 814 AND SHALL BE AMENABLE TO RADIOGRAPHIC TESTS.
- ALL CONNECTIONS ARE WELDED CONNECTIONS AND SHALL BE DESIGNED FOR FULL STRENGTH OF MEMBER (BOTH SHEAR CONNECTIONS AS WELL AS MOMENT CONNECTIONS).
- TYPICAL CONNECTION DETAILS SHOWN IN THE DRAWING ARE INDICATIVE ONLY. ACTUAL DETAILS SHALL BE DESIGNED AND DETAILED BY FABRICATOR / DETAILER FOR INDIVIDUAL MEMBERS.
- MINIMUM SIZE OF FILLET WELD SHALL BE EQUAL TO THE LOWEST THICKNESS OF THE CONNECTED MEMBER OR 6mm, WHICHEVER IS LESS.
- MINIMUM LENGTH OF WELD SHALL NOT BE LESS THAN THE WIDTH OF THE COMPONENT PART WELDED. MAXIMUM LENGTH OF WELD SHALL NOT BE MORE THAN 60 TIMES OF THE THICKNESS OF WELD EXCEPT IN THE CASE OF WELDED PLATE GIRDER.
- ALL BUTT WELDS SHALL BE FULL STRENGTH BUTT WELDS.
- INTERMITTENT WELDS SHALL NOT BE PERMITTED UNLESS SPECIFIED IN THE DRAWING.
- ALL ERECTION BOLTS SHALL BE 16mm DIA. MS BOLTS UNLESS OTHERWISE NOTED. ERECTION BOLTS SHALL BE RETAINED IN POSITION EVEN AFTER THE STRUCTURE IS WELDED.
- ANCHOR BOLTS SHALL BE MILD STEEL CONFORMING TO GRADE A OF IS: 2062-1992 AND NUTS SHALL CONFORM TO BLACK GRADE OF IS: 1363 OR IS: 3138.
- THREADS FOR ANCHOR BOLTS AND NUTS SHALL BE METRIC THREADS CONFORMING TO IS: 4218.
- SPLICES SHALL BE DESIGNED FOR FULL CAPACITY OF THE SECTION. SPLICES IN WEBS AND FLANGES OF A MEMBER SHALL BE STAGGERED. WHERE BUTT WELDING IS USED FOR FIELD SPLICING, ADDITIONAL COVER PLATE SHALL BE PROVIDED TO TRANSFER 50% OF THE STRENGTH.
- WHERE TWO MEMBERS (ANGLES OR CHANNELS) ARE USED BACK TO BACK TO FORM ONE MEMBER, TACK PLATES SHALL BE PROVIDED ALONG THE LENGTH BETWEEN THE END GUSSET PLATES AT A C/C DISTANCE OF 40R OR 900mm WHICHEVER IS LESS. WHERE R IS THE LEAST RADIUS OF GYRATION OF A SINGLE MEMBER. MINIMUM WIDTH OF STITCH PLATE SHALL BE 0.75 TIMES THE WIDTH OF CONNECTING MEMBER.
- ANCHOR BOLTS AT COLUMN BASES SHALL BE THOROUGHLY TIGHTENED TO DEVELOP FULL FIXITY AT THE BASE. THE NUT SHALL BE TACK WELDED TO BASE PLATE AFTER TIGHTENING. A LOCKNUT SHALL ALSO BE PROVIDED.
- ENDS OF BEARING STIFFENERS SHALL BE MACHINED AT TOP AND BOTTOM TO THE LINE AND SQUARE, UNLESS OTHERWISE NOTED.
- COLUMN BASE PLATES SHALL BE GROUTED AS SOON AS POSSIBLE AFTER THE ERECTION OF COLUMNS ENSURING THAT COLUMNS ARE PERFECTLY PLUMB.
- BOTTOM OF COLUMNS AND TOP OF BASE PLATES SHALL BE GROUND SMOOTH BEFORE BOTH ARE WELDED TOGETHER.
- THE THICKNESS OF GUSSET PLATE SHALL NOT BE SMALLER THAN 6mm OR SMALLER THAN THE MINIMUM THICKNESS OF MEMBERS CONNECTED.
- ERECTION TOLERANCES AS PER TECHNICAL SPECIFICATIONS SHALL BE ADHERED TO.
- A FULL SCALE LAYOUT SHALL BE LAID OUT ON THE GROUND BEFORE ACTUAL CUTTING OF THE PLATE COMMENCES IN THE CASE OF BUILT UP SECTIONS.
- EXTRA CARE SHALL BE TAKEN TO CHECK THE STRAIGHTNESS OF ALL MEMBERS AND GET THEM INSPECTED BEFORE ERECTION.
- MINIMUM ERECTION GAP BETWEEN COLUMN AND BRACINGS SHALL BE 25mm TO PERMIT SPACE FOR RETURN WELDS.
- ALL MILD STEEL BOLTS & NUTS SHALL BE CONFIRM TO IS:1367 AND MATERIAL OF GRADE CLASS 4.6
- THE DIA OF BOLT HOLES SHALL BE 1.5mm MORE THAN THE BOLT DIA. U.N.O.
- READ THIS DRAWING INCONJUNCTION WITH OTHER SHEETS OF SAME DRAWING.

SPECIAL NOTES:

- THE STRUCTURE MADE OUT OF PRIMARY MEMBERS OF HIGH TENSILE STEEL 340MPA MIN AND SECONDARY MEMBERS OF 240MPA STEEL.
- ALL MEMBERS ALONG THE GRIDS ARE PRIMARY MEMBERS I.E., COLUMNS, BEAMS, ETC OTHER CONNECTING MEMBERS ARE SECONDARY MEMBERS.

SECTION SCHEDULE

MKD.	DESCRIPTION
SB1	I ISMB 100
SB2	I ISMB 300
SB3	I ISWB 600
BUILT UP SECTION	PL.WEB750x12+2FLG300x20Thk.

- IMPORTANT NOTES:-**
- ALL FABRICATION & ERECTION OF OF STRUCTURAL SHALL BE AS IS 800-2007
 - MINI.THK. OF WELD SHALL BE 8mm. FOR FILLET WELD IN FABRICATION YARD/SHOP & 8 mm AT SITE.
 - ALL JOINTS & CONNECTION SHALL BE FULLY WELD ON ALL SIDE UNLESS OTHER WISE MENTIONED.
 - PROVIDE ONE COAT OF RED OXIDE PRIMER IN FABRICATION YARD BEFORE ERECTION AT SITE AND TWO COAT OF EPOXY PAINT AS DIRECTED.
 - ALL DIMENSIONS ARE TO BE CHECKED & VERIFIED ON SITE WITH FULL SIZE TEMPLATE.
 - STRUCTURAL STEEL SHALL CONFORM TO IS-226:1975, THE STEEL SHALL BE FREE FROM THE DEFECTS MENTIONED IN IS -226:1975.
 - ALL STRUCTURAL STEEL SHALL HAVE A SMOOTH EXTERNAL FINISH FREE FROM LOOSE MILL SCALE, RUST PITS OR OTHER DEFECTS AFFECTING THE STRENGTH & DURABILITY.
 - BOLTS AND NUTS SHALL CONFORM TO IS-1363:2002 /IS-1364/ IS-1367/IS-6039:2002
 - GENERAL ELECTRODES SHALL CONFORM TO IS-814(PATR-1):2004.
 - ALL PAINTING SHALL CONFORM TO IS-1477:1971.
 - ALL TOLERANCE SHALL BE ACCORDING TO IS-7215:1974.
 - ERECTION SHALL BE CARRIED OUT WITH UTMOST CARE FOR MATERIALS AND HUMAN LIFE AND IS-7205:1974 SHALL BE TAKEN AS GUIDE-LINES FOR THE SAME.
 - ALL HOLES FOR BOLTS/PLUG WELDS TO BE DONE BY DRILLING MACHINE ONLY.

DRAWING ISSUED FOR: G.F.C

RO	G.F.C
REV. NO.	DESCRIPTION

PROJECT TITLE:

PROPOSED COMMERCIAL BUILDING

DRAWING TITLE:

DECK SLAB BEAM LAYOUT AT 16' LVL FROM F.G

NOTE: shall not be copied or used in any way without their express written permission. This drawing shall be read in conjunction with other relevant architectural and other consultants drawings. It shall be redeemed to the responsibility of the contractor/fabricator to bring to the notice of the Architect prior to any construction or fabrication of any discrepancy within or between the final drawings.

DATE:		SCALE:	1:90
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