

BUILDING CODE DATA: RELIGIOUS BUILDING (NEW)	
BUILDING IDENTIFICATION:	RELIGIOUS BUILDING
BUILDING OCCUPANCY CLASSIFICATION (IBC 2012, SECTION 302, 303 AND 303.4):	ASSEMBLY - A3
TYPE OF CONSTRUCTION (IBC 2012, SECTION 602, SECTION 602.5):	TYPICALLY UN-PROTECTED
ALLOWABLE AREA PER FLOOR (IBC 2012, TABLE 503):	9500 SQFT PER STORY
60 FT. INCREASE ALLOWABLE PER FLOOR BY AREA MODIFICATION METHODS OF (IBC 2012, SECTION 503 & 506):	$A_n = \{ A_1 + [A_2 \times I] + [A_3 \times I_2] \}$ $A_1 = 95000 \times (95000 \times 0.02) \times 2$ $A_2 = 95000 \times 0 + 190000$ $A_3 = 285000 \text{ PER FLOOR}$
ALLOWABLE FLOOR AREA FOR THE BUILDING (ALL FLOORS):	285000 + 510000 SQFT.
PROPOSED AREA (SQFT) PER FLOOR:	
BASEMENT (LOWER FLOOR)	10750 SQFT.
FIRST FLOOR (UPPER)	10750 SQFT.
SECOND FLOOR	4747 SQFT.
TOTAL FLOOR AREA OF THE BUILDING (PROPOSED):	26247 SQFT.
BUILDING HEIGHT (IBC 503 & 504)	
BUILDING HEIGHT ALLOWED PER IBC TABLE 503:	55'-0"
AUTOMATIC SPRINKLER INCREASE (IBC SECTION 504.2):	55'-0" (IF NFPA 13 SPRINKLER) 55' + 20' MAX. = 75'-0"
BUILDING HEIGHT PROPOSED:	33'-0" (INCLUDING PARAPETS BUT EXCLUDING DOME AND MINARET)
HIGH RISE CRITERIA IMPLIED (IBC CHAPTER 2 & SECTION 409)	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO OCCUPIED FLOOR LESS THAN 15'-0" FOR FIRE DEPT. ACCESS
NUMBER OF STORIES (IBC 504)	
NUMBER OF STORIES ALLOWED PER IBC TABLE 503:	02 STORIES
AUTOMATIC SPRINKLER INCREASE (IBC SECTION 504.2):	02 STORIES + 01 STORY (MAX 20') = 03 STORIES (ALLOWABLE)
NUMBER OF STORIES PROPOSED:	02 STORIES + 1 STORY BASEMENT
FIRE RESISTANCE RATINGS REQUIREMENTS (IBC, TABLE 601, 602 & I.S.C.):	
STRUCTURAL FRAME:	0 - HOUR
EXTERIOR LOAD BEARING WALL:	2 - HOUR
EXTERIOR NON LOAD BEARING WALL (FIRE SEPARATION DIST. > 30'-0"):	0 - HOUR
INTERIOR LOAD BEARING WALL:	0 - HOUR
INTERIOR NON LOAD BEARING PARTITION WALL:	0 - HOUR
FLOOR CONSTRUCTION AND ASSOCIATED SECONDARY MEMBERS:	0 - HOUR
ROOF CONSTRUCTION AND ASSOCIATED SECONDARY MEMBERS:	0 - HOUR
FIRE SEPARATIONS REQUIREMENTS (IBC, CHAPTERS 5, 6, 7, 9, 10, 14, 15)	
WALLS FOR EXIT PASSAGEWAY TO EXIT ACCESS (IBC 1023):	1 - HOUR
CORRIDOR FIRE RATINGS WITH AUTOMATIC SPRINKLER (IBC 1018, TABLE 1018.1):	0 - HOUR
EXTERIOR WALLS FOR EXIT STAIRWAYS (1016):	1 - HOUR
INTERIOR WALLS FOR EXIT STAIRWAYS (IBC 1009, 1009.1.2):	1 - HOUR
SHAFT ENCLOSURES - (IBC 703):	1 - HOUR
INCIDENTAL USE (IBC 509):	0 - HOUR
STAIRS (IBC 1029.1 & 1029.3):	<input type="checkbox"/> OPEN <input checked="" type="checkbox"/> ENCLOSED
STAIR WIDTH:	MIN. REQUIRED: 02' PER PERSON
FIRE EXTINGUISHING SYSTEMS:	<input type="checkbox"/> NFPA DR <input checked="" type="checkbox"/> NFPA D
SPRINKLER SYSTEM (IBC 903 / FC 903.2):	REQUIRED <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
STANDPIPE SYSTEM (IBC 905 & NFPA 14):	REQUIRED <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
FIRE EXTINGUISHERS (NFPA 10 TABLE 9-2):	MAX DISTANCE ALLOWED: 75'-0" (FC, TABLE 906.3 (1))
MEANS OF EGRESS PER FLOOR (NFPA 101, 2012 EDITION, CHAPTER 1 & CHAPTER 10, SECTION 12.2)	
EXITS AND EXIT ACCESS DOORWAYS (NFPA 101, 2012 EDITION, SECTION 12.2.2):	REQD: 02
NUMBER OF EGRESS PER OCCUPANT LOAD (NFPA 101, 2012 EDITION, SECTION 12.4 & SECTION 12.4.1):	REQD: 02
TRAVEL DISTANCE (NFPA 101, 2012 EDITION, SECTION 12.6 & SECTION 12.6.1):	MAXIMUM ALLOWED: 250 FEET
DEAD END CORRIDOR (NFPA 101, 2012 EDITION, SECTION 12.6 & SECTION 12.6.1.1):	MAXIMUM ALLOWED: 10 FEET
EGRESS WIDTH (NFPA 101, 2012 EDITION, SECTION 12.3.6 & 12.3.6.1):	MINIMUM CORRIDOR WIDTH: 44" OR MORE
EGRESS WIDTH (BASED ON OCCUPANT LOAD):	MINIMUM CORRIDOR WIDTH: 44" OR MORE
MINIMUM PLUMBING FIXTURES (IPC 403 AND TABLE 403.1, IBC 2012 AND TABLE 250.2.1)	
OCCUPANCY LOAD FOR RELIGIOUS FACILITIES (A-3)	TOTAL: 631 PERSONS
PLUMBING FIXTURES	
WATER CLOSET	MEN # 1 PER 50
LAVATORIES	MEN # 1 PER 200
DRINKING FOUNTAIN	REQD. 1 PER 1000 OCCUPANTS
SHOWERS	NOT REQUIRED

ELEVATORS	REQUIRED	YES	NO
HIGH RISE CRITERIA IMPLIED (IBC CHAPTER 2 & SECTION 409)	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	OCCUPIED FLOOR LESS THAN 15'-0" FOR FIRE DEPT. ACCESS
TO BE USED AS A MEANS OF EGRESS (IBC SECTION 1017 & 1026.1)	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	ACCESSIBLE FLOOR IS LESS THAN 4 STORY ABOVE LEVEL OF EXIT DISCHARGE (IBC 1007.2)
ELEVATOR LOBBY ENCLOSURE REQUIRED (IBC 1014) EXCEPTION 4)	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	AUTOMATIC SPRINKLER PROVIDED
ELEVATOR CAR TO ACCOMMODATE AMBULANCE STRETCHER (IBC 3002.4)	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	BUILDING NOT MORE THAN 4 STORY HIGH

APPLICABLE BUILDING CODES AND STANDARDS: NEW BUILDING

TYPE:	MODEL CODE	EDITION	GEORGIA AMENDMENTS		
			YES	NO	YEAR AMENDED
COMMERCIAL BUILDING CODE	INTERNATIONAL BUILDING CODE 2012 (IBC)	2012	X		2014
COMMERCIAL PLUMBING AND MECHANICAL CODE	INTERNATIONAL MECHANICAL CODE 2012 (IMC)	2012	X		2014
	INTERNATIONAL PLUMBING CODE 2012 (IPC)	2012	X		2014
	INTERNATIONAL FUEL AND GAS CODE 2012 (IFGC)	2012	X		2014
ELECTRICAL CODE	NFPA NATIONAL ELECTRICAL CODE 2011 (NEC)	2011		X	
ENERGY CONSERVATION CODE	INTERNATIONAL ENERGY CONSERVATION CODE 2009 (IECC)	2009	X		2011, 2012
FIRE CODE	INTERNATIONAL FIRE CODE 2012 (IFC)	2012	X		2014
LIFE-SAFETY CODE	NFPA 101	2012		X	
FIRE ALARM CODE	NFPA 72	2012		X	
SPRINKLER CODE	NFPA 13	2012		X	
ACCESSIBILITY CODE	2010 STANDARD FOR ACCESSIBLE DESIGN	2010			

OCCUPANT LOAD CALCULATIONS

SPACE	OCCUPANCY TYPE	FLOOR AREA (SQFT)	FLOOR AREA PER OCCUPANT (SQFT)	MAXIMUM OCCUPANTS	REMARKS
BASEMENT FLOOR					
MULTIPURPOSE HALL/DINING	ASSEMBLY - UNCONCENTRATED	1060 NET	6 NET	174	
FUTURE OFFICE	OFFICE	1922	100 GROSS	20	
KITCHEN	KITCHEN COMMERCIAL	504	25 GROSS	20	
FIRST FLOOR				438	FIRST FLOOR TOTAL
MAIN PRAYER HALL	ASSEMBLY	320	NET	326	
DAILY PRAYER HALL	ASSEMBLY	145	NET	91	
OFFICE - 1	OFFICE	164	100 GROSS	17	
OFFICE - 2	OFFICE	305	100 GROSS	31	
OFFICE - 3	OFFICE	100	100 GROSS	10	
OFFICE - 4	OFFICE	442	100 GROSS	45	
AV ROOM	ACCESSORY SPACE	80	300 GROSS	81	
SECOND FLOOR				41	SECOND FLOOR TOTAL
LIBRARY	LIBRARY	540	50 NET	30	
OFFICE - 1	OFFICE	218	100 GROSS	23	
OFFICE - 2	OFFICE	346	100 GROSS	35	
OFFICE - 3	OFFICE	216	100 GROSS	23	
OFFICE	OFFICE	300	100 GROSS	31	
GRAND TOTAL				631	

ALL CODES REFERRED HERE ARE 2012 INTERNATIONAL CODES WITH CURRENT GEORGIA AMENDMENTS
ALL LIFE SAFETY CODES REFERRED ARE NFPA 101, LIFE SAFETY CODE - 2012 EDITION

BUILDING ENVELOPE ENERGY EFFICIENCY REQUIREMENTS: WALLS AND ROOF

BUILDING ELEMENT	MATERIAL USED	MIN. R-VALUE	CONSTRUCTION MATERIALS & DETAILS	TOTAL CALCULATED R-VALUE	R-VALUE PROPOSED
BASEMENT FLOOR DAYLIGHT WALLS	8" CMU BLOCK WITH STONE CLADDING ON EXTERIOR & 2" MIN. EPS INSULATION WITH 1/2" GYP. BD.	R-5	8" CMU + 3/4" FIBERGLASS BATT INSULATION + 1/2" GYP. BD.	3.75 (3.05) = 17.4	R-11
FIRST FLOOR WALLS	2" MIN. EPS FOR EFF. + 1/2" GYP. BD. + 4" FIBERGLASS BATT INSULATION WITH 1/2" GYP. BD.	R-13	2" MIN. EPS FOR EFF. + 1/2" GYP. BD. + 4" FIBERGLASS BATT INSULATION + 1/2" GYP. BD.	1.1415 = 25.2	R-25
SECOND FLOOR WALLS	2" MIN. EPS FOR EFF. + 1/2" GYP. BD. + 4" FIBERGLASS BATT INSULATION WITH 1/2" GYP. BD.	R-13	2" MIN. EPS FOR EFF. + 1/2" GYP. BD. + 4" FIBERGLASS BATT INSULATION + 1/2" GYP. BD.	1.1415 = 25.2	R-21
ROOF (INSULATION ENTIRELY ABOVE DECK)	METAL ROOF DECK WITH 4" MIN. POLYISO INSULATION ABOVE DECK	R-20	4" MIN. RSI0 POLYISO INSULATION ABOVE DECK	30	R-30
SLAB ON GRADE	NO REQUIREMENT (UN-HEATED SLAB)				
WALL BELOW GRADE	NO REQUIREMENT				

EPB = EXPANDED POLYSTYRENE INSULATION BOARD
CI = CONTINUOUS INSULATION

BUILDING ENVELOPE ENERGY EFFICIENCY REQUIREMENTS: FENESTRATIONS					
CODE REFERENCE: INTERNATIONAL ENERGY CONSERVATION CODE 2009 (IECC)					
BUILDING OCCUPANCY CLASSIFICATION (IBC 302): GROUP - A					
CLIMATE ZONE: 3A					
FENESTRATION TYPE	FRAMING TYPE	V-FACTOR	SHGC: FF < 0.25	SHGC: 0.25 < FF < 0.5	SHGC: FF > 0.5
ENTRANCE DOOR	METAL WITH/WITHOUT THERMAL BREAKS	0.90 (U-FAC)	0.25	0.25	0.25
ALL OTHER TYPES	METAL WITH/WITHOUT THERMAL BREAKS	0.65	0.25	0.25	0.25

FF = PROJECTION FACTOR
SHGC = SOLAR HEAT GAIN COEFFICIENT

DESIGN BUILD
BLACKWATER CONSTRUCTION GROUP, LLC
2200 SATELLITE BLVD., DULUTH GA 30090
Phone: 404-740-7381

DESIGN CONSULTANTS
DESIGN SOLUTIONS LLC
www.designsolutionsllc.com
Phone: 404-740-7381

ARCHITECT OF RECORD
ROBERT J LARA, AIA
8450 SW 201 ST.
CUTLER BAY, FL 33189

STATE OF GEORGIA
ROBERT JERRY LARA
REGISTERED ARCHITECT
Nov 9 2014

STRUCTURAL
ENGQUEST
3350 ENGINEERING DRIVE, SUITE 175
PEACHTREE CORNERS, GA 30092
TEL: (404) 966-8679
www.engquest.com

MEP
ENGQUEST
3350 ENGINEERING DRIVE, SUITE 175
PEACHTREE CORNERS, GA 30092
TEL: (404) 966-8679
www.engquest.com

REVISION # DATE REMARKS

ISSUE DATE: 10-02-2014 ISSUED TO: COUNTY PERMITS ISSUED FOR:

PROJECT ADDRESS:
MASJID AL-MOMINEEN
837 NORTH INDIAN CREEK DRIVE
CLARKSTON, DEKALB COUNTY
GEORGIA, 30021

LAYOUT:
CODE DATA SHEET

PAPER SIZE: 24X36 (ARCH D)

SCALE: AS NOTED

SHEET NUMBER:
CD-01