# MT OLIVE CHURCH

## ADDITION / REMODELING 2460 MT. OLIVE DR.

### SUAMICO, WI



PROJECT DESCRIPTION: The Work consists of an addition of approximately 1,440 SF plus 560 SF of basement. The addition includes an expanded Narthex, new offices for the Pastor and Secretary and a new, multi-purpose room. The new entrance will also feature a bell tower. Work of the remodeling includes relocation of new ADA toilet rooms; associated structural engineering, and mechanical, electrical and plumbing work.

#### INTERNATIONAL EXISTING BUILDING CODE INFORMATION 2009 IEBC (WISCONSIN) Mt. Olive Ev. Lutheran Church (Addition / Remodeling)

	CODE SECTION	Paragraph	Table	CODE INFORMATION	Other PARA	THIS PROJECT	INTERPRETATION
3	USE AND OCCUPANCY			1			-
		303.1		A-3 Community Halls, Churches			
		304.1		B Business			
5	HEIGHT AND AREA.	•			•		•
	Allowable area		503-VB	A-3 1 story; 6,000 SF. 40' Height.			
	Area Modification	506.1	EQ5-1	Aa = { At + [ At x If ] + [At x Is ]} Aa = { At + [ At x .30 ] + [At x Is ]} Aa = { 6,000 + [ 6,000 x .30 ] + [At x Is ]} = 7,800 SF			
	Frontage Increase	506.2	EQ5-2	If = [ F/P - 0.25 ] x W/30 If = [ 236'/426'025] x 30/30 If = [ 0.55 - 0.25 ] x 1 If = 0.30			
	Non-separated Occupancy	508.3.1		Classify use by Section 3021. Apply most restrictive provisions of Section 403 and Chapter 9.			
6	TYPE OF CONSTRUCTION			•		l	
	Fire-Resistance Ratings		601-VB	Primary Structural Frame 0 hour Bearing Walls 0 hour Non-Bearing Interior 0 Floor 0 hour Roof Construction 0 hour			
o em em em em em	Exterior Walls		602-VB A, B	x < 5 1 hr 5< x <10 1 hr 10< x <30 0 hr x <30 0 hr			
	Construction Class	602.5		Type V – Structural, exterior and interior walls of any material permitted.			
9	FIRE PROTECTION SYSTEMS			•			
	Group A-3	903.2.1.3		Sprinklers required if any of the following exist: 1. > 12,000 SF 2. > 300 Occupants 3. Not a level of exit discharge		1. Under 12,000 SF 2. Under 300 Occs 3. At exit discharge	Not Required. (Simultaneous usage of t entire building is less that 300).
10	MEANS OF EGRESS	<u> </u>		1	1	<u> </u>	1
	Occupant Load		1004.1.1	Assembly use - standing: 5 NSF/person.		Net 450 / 5 = 90	Either in Narthex or Seat
	Occupant Load		1004.1.1	Assembly Use - Seated: 7 NSF		"count" = 224 @ 18"	Either in Seat or Narthex
	Occupant Load		1004.1.1	Assembly use - Tables / Chairs 15 net		Net 750 / 15 = 50	
	Occupant Load		1004.1.1	B Business Areas 100 gross		700 / 100 = 7	
29	PLUMBING SYSTEMS			-	1		<u> </u>
	Plumbing Fixtures		2902.1	A-3; WC m1/125; w1/65 LAV 1/200 ea DF 1/500 SS1		Providing additional toilet to each men and women	Exceeds requirements
		<b> </b>		1	1	I	I

	CODE SECTION	Paragraph	Table	CODE INFORMATION	Other PARA	THIS PROJECT	INTERPRETATIO		
2	DEFINITIONS								
	Addition	Extension or incr	ease in flooi	area, number of stories, or height.					
	Alteration	Any construction or renovation to an existing structure other than a repair or addition. Alterations are classified as Level 1, Level 2, and Level 3.							
	Existing Building	Building erected prior to the date of the current code or a building that had a legal building permit.							
		That portion or portions of a building consisting of all reconfigured spaces as indicated on the construction documents. Work area excludes other portions of the building where incidental work entailed by the intended work must be performed and portions of the building where work not initially intended by the owner is specifically required by this code.							
	CLASSIFICATION								
	Alteration-Level 2	404.1		Level 2 includes reconfiguration of space, change of door, and reconfiguration of system.					
		404.2		Comply with Chapters 6 & 7.					
	Additions	407.1		Provisions for additions shall apply.					
		407.2		Comply with Chapter 10.					
	ALTERATION -LEVEL 1								
	Conformance	601.2		An existing building shall not be altered to become less safe than its existing conditions.			Meet IBC minimums.		
	Interior finishes	602.1		All new interior wall/ceiling finishes shall comply with IBC chapter 8.	IBC Chptr 8	166			
	Interior floor finish	602.2		All new interior floor finish shall comply with IBC.	IBC Chptr 804				
	Interior trim	602.3		All new interior trim to comply with IBC.	IBC Chptr 806				
	Material & Methods	602.4		All work with materials and methods requirements in IBC, IECC, IMC and IPC shall comply with the applicable standards from those codes.		PM			
	Fire Protection	603.1		Maintain existing level of fire protection.	IBC 903.2.1.3				
	Means of Egress	604.1		Maintain existing protection for means of egress.					
	Accessibility	605.1		Comply with IEBC 605.1.1 thru 605.1.14 and IBC Chapter 11.					

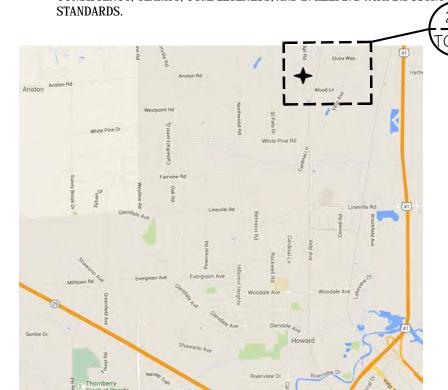
	CHAPTER CODE SECTION	Paragraph	Table	CODE INFORMATION	Other DADA	THIS PROJECT	March 31, 201 INTERPRETATION
	CODE SECTION	Paragraph	Table	CODE INFORMATION	Other PARA	THIS PROJECT	INTERPRETATION
		605.1(2)		Accessible egress of IBC Chapter 10 not required in			May be superceded by other
		000.1(2)		existing buildings.			code sections.
	Entrances	605.1.1		Required to be accessible if required by 605.2.			New entrance is accessible
				Provide signs complying with IBC 1110.			
	Ramps	605.1.4	605.1.4	If steeper slopes than IBC 1010.2, then:	and that the reserves the control of the set to see the second		
				Max 6" if 1:12 > slope > 1:10			
				Max 3" if 1:10 > slope > 1:8			
	Affecting Route to Primary	605.2		Route to primary function areas to be accessible			
	Structural	606.1		If equipment is replaced or added apply requirements of this section.		Structural calculations included at areas required.	
	Reroofing/Equipment	606.2		Where reroofing/additional equipment results in		Structural calculations included	
	rterooning/Equipment	000.2		additional dead loads, comply with IBC gravity load		at areas required.	
				requirements.			
				Alteration shall conform to IECC as they relate to			
	Energy Conservation	607.1		new construction.			
7	ALTERATION - LEVEL 2						
	Level 1 Compliance	701.2		Work shall comply with Chapter 6.	See 6 above.		
	General	701.3		All new shall comply with IBC. (w/exceptions)			
	Level 2 Scope	703.1		Level 2 requirements limited to work areas in			
	Frieting Vertical Opening	703.2.1		which Level 2 alterations are being performed.  All existing, interior vertical openings connecting		No shangas are being made to	
	Existing Vertical Opening	103.2.1		two or more floors shall be enclosed with 1-hour		No changes are being made to stairwells.	
				assemblies.			
10000		703.2.1 (4)		Group A, minimum 30 minute enclosure for vertical			
		100.2.1 (4)		openings not exceeding three stories			
	Interior Finish	703.4		Finishes on wall and ceilings in work area must			
				comply with IBC.			
	Sprinklers	704.2.2		Group A with more than 1 tenant or serves more			end
	<u> </u>			than 30 requires sprinklers if:			
				1) required by IBC		1) no	
				2) work area > 50%		2) no	
				there is municipal water pressure		3) yes	
	Fire Protection Mixed Use	704.2.2.1		Fire protection not required in work area if			1 hour at stair doors &
				separated by minimum 1 hour.			entrance.
	Windowless Story	704.2.3		Sprinkler if required by IBC.			
	Fire Alarm	704.4.1		This code section is silent on A			
	Smoke Alarms	704.4.3		This code section is silent on A			
	Means of Egress	705.1		This section limited to work areas with shared		This is a single tenant building	
				tenants.			
	Minimum Number of Exits	705.3.1		Provide minimum per occupant load.		Unchanged	
	2 Egress Doors	705.4.1		2 required			
	Egress Doorways	705.4.1.1		2 egress doorways when Occupant Load > 50 or Travel > 75'			
	Door Swing	705.4.2		In direction of travel if >50 occupants.			
	Door Closing			Automatic/self-closing if open to exit passageway or			
		705.4.3		exit stairs.			
	Panic Hardware	705.4.4		Required in Group A when Occupant Load > 100		Not in work area	
	Dead-end Corridors	705.6		In work area; can not exceed 35'			a
	Means of Egress lighting	705.7.1		Provide per IBC.			
	Exit signs	705.8.1		Provide per IBC.			
	Handrails	705.9.1		Provide at least one, designed per IBC.			
	Accessibility	706		Silent on Group A, B			=======================================
	New structural elements	707.2		New elements to comply with IBC.		Structural calculations included	e = = = = = = = = = = = = = = = = = = =
	Existing structure changes	707.4		Alteration shall not reduce capacity unless capacity		Structural calculations included	
	ala1! !	707 F		is demonstrated.		at areas required.	
	Lateral Loads	707.5		If existing later load resistance is stressed 10% greater; calculate with IBC 1609 and 1613.		Structural calculations included at areas required.	
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	New Installations	708.1			See 6 above.	a a cas required.	
	inew iristaliations	700.1		Newly installed electrical equipment and wiring related to work done in work area shall comply with	See o above.		
				materials and methods of Chapter 6.			
		708.1 excpt		Electrical in new installed partitions and ceilings			
		<i>элэр</i> г		shall comply with NRPA 70.			
	Mechanical Systems	709.1		Provide natural or mechanical ventilation per IMC or			
				comply with IEBC Section 709.2.			
	Altered Mechanical	709.2		Provide not less than 5 CF/person outdoor air and			
				15CFM/ person ventilation			
	Plumbing	710.1		If increased by more than 20%; provide per IPC		Providing additional toilet to	
						each men and women	
	Energy Conservation	711.1		Alterations to conform to IECC for new construction.			
10	ADDITIONS						
10	ADDITIONS Scope	1001.1		Comply with IBC for new construction.			
	Scope Height limitation	1001.1		Comply with IBC for new construction.  Comply with IBC Chapter 5	IBC 5		
	Area limitations			Comply with IBC Chapter 5	IBC 5		=======================================
	Fire Protections Systems			Comply with IBC Chapter 9		No Change	
	Compliance with Structure			Comply with IBC for new construction.		Calculations provided	
	Additional Gravity Loads			Comply with IBC for new construction.		Calculations provided	
	Lateral Force - Vertical			Comply with IBC for new construction.		Calculations provided	
	Accessibility			IBC Accessibility of IBC shall apply.		No change from existing.	

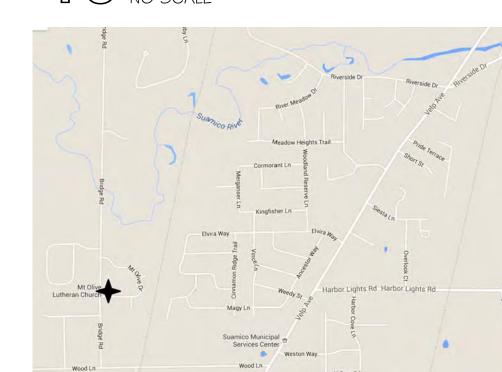
#### PROJECT OVERVIEW:

- DRAWINGS HAVE BEEN DEVELOPED TO SHOW COMPLIANCE WITH THE WISCONSIN COMMERCIAL BUILDING CODE (2009 IBC WITH WISCONSIN SUPPLEMENTAL) FOR AN EXISTING BUILDING - ASSEMBLY USE. CONTRACTOR IS RESPONSIBLE FOR WORK WITH THAT OF ALL OTHER TRADES. GENERAL CONTRACTOR IS ALSO RESPONSIBLE FOR PERFORMING ALL WORK IN A SAFE AND SATISFACTORY MANNER. ANY DISCREPANCIES OR INCONSISTENCIES BETWEEN THE SUBMITTAL DOCUMENTS, SITE CONDITIONS AND BEST PRACTICES ARE TO BE BROUGHT TO THE ATTENTION OF THE OWNER OR ARCHITECT IMMEDIATELY UPON DISCOVERY AND BEFORE WORK COMMENCES.
- 2. PROJECT MAINTAINS CURRENT "OCCUPANCY" CLASS ("A-3")
- EXITS AND TRAVEL DISTANCES ARE CHANGED SLIGHTLY AND MEET CODE. STRUCTURAL ENGINEERING IS DESCRIBED FOR THE WORK. GENERAL
- CONTRACTOR TO CONFIRM STRUCTURAL CONDITIONS AS DEMOLITION BEGINS HVAC CONTRACTOR RESPONSIBLE FOR FINAL TESTING & BALANCING. PROJECT REQUIRES AN ABOVE AVERAGE LEVEL OF FINISH. WOOD JOINTS MUST "MEET" AND STAY TIGHT. TRANSITIONS OF MATERIALS AT DOORS, COUNTER TOPS AND PLUMBING FIXTURES TO BE CAULKED. PAINT TO THOROUGHLY COVER NEW
- AND PREVIOUS SURFACES FULLY AND CONSISTENTLY. GENERAL CONTRACTOR TO COMMUNICATE REGULARLY WITH ARCHITECT FOR DECISIONS REQUIRED WHEN INSUFFICIENT INFORMATION IS AVAILABLE IN THESE (SUB-CONTRACTORS TO ALERT GC SIMILARLY SO THE GC CAN COMMUNICATE WITH ARCHITECT.) PROVIDE MINIMUM OF 48 HOURS NOTIFICATION WHENEVER POSSIBLE.

#### **GENERAL NOTES:**

- 1. THESE NOTES SHALL BE READ IN CONJUNCTION WITH ARCHITECTURAL, STRUCTURAL, MECHANICAL, ELECTRICAL, PLUMBING DRAWINGS AND SPECIFICATIONS.
- 2. ALL DIMENSIONS ARE TAKEN TO FACE OF FRAMING MEMBER OR CENTERLINE OF COLUMNS UNLESS OTHERWISE NOTED.
- 3. ELECTRICAL OUTLETS, SWITCHES AND COVERS ARE TO BE IVORY. 4. THE CONTRACTOR GUARANTEES ALL WORK AGAINST FAULTY OR IMPERFECT MATERIALS OR WORKMANSHIP. ALL WORK SHALL BE ENTIRELY WATERTIGHT AND LEAK PROOF. ALL MATERIALS INSTALLED IN ACCORDANCE WITH MANUFACTURER'S
- MATERIALS, EQUIPMENT, OR DESIGN FEATURES WHICH HE BELIEVES INADEQUATE OR UNSUITABLE; IN VIOLATION OF LAWS, ORDINANCES, OR RULES AND REGULATIONS OF ALL AUTHORITIES HAVING JURISDICTION OVER THE WORK, AND OF ANY NECESSARY ITEMS OR WORK OMITTED FROM THE DRAWINGS OR
- 6. PLANS WERE DEVELOPED FROM INFORMATION SUPPLIED BY THE OWNER AND EXISTING CONDITIONS OBSERVED. ANY DISCREPANCIES BETWEEN DRAWINGS AND EXISTING CONDITIONS ARE TO BE REPORTED TO THE ARCHITECT PRIOR TO STARTING WORK ON A GIVEN ITEM AND BEFORE INCURRING ANY ADDITIONAL
- SHALL BE BASED ON THE ACTUAL FIELD DIMENSIONS ONLY.
- B. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS INDICATING ACTUAL LAYOUT OF ALL STRUCTURAL MEMBERS FOR APPROVAL PRIOR TO INSTALLATION, ALL MEMBERS SHALL BE INSTALLED ACCORDING TO MANUFACTURERS' RECOMMENDATIONS INCLUDING BRACING, SPACING, ETC.
- 9. CONTRACTOR IS REQUIRED TO REVIEW CONTRACT DOCUMENTS AND TO VISIT THE SITE BEFORE SUBMITTING BID. COMPARE THE DRAWINGS AND SPECIFICATIONS WITH THE VISIBLE EXISTING CONDITIONS, AND INFORM ARCHITECT AS TO ANY DISCREPANCIES IN THE DOCUMENTS OR IN THE EXISTING CONDITIONS PRIOR TO DOCUMENTS OR VISIT THE SITE WILL NOT RELIEVE THE CONTRACTOR FROM THE NECESSITY OF FURNISHING ANY MATERIALS OR PERFORMING ANY WORK THAT MAY BE REQUIRED TO COMPETE WORK IN ACCORDANCE WITH DRAWINGS AND SPECIFICATIONS. ANY WORK SO REQUIRED WILL BE WITHOUT ADDITIONAL COSTS
- TO THE OWNER. 10. CONTRACTOR IS REQUIRED TO REVIEW THE BIDDING DOCUMENTS FOR CONSISTENCY, CLARITY, COMPLETENESS, AND IN KEEPING WITH INDUSTRY





#### PROJECT INFORMATION

PROJECT / SITE NAME: MT. OLIVE CHURCH ADDITION/REMODELING T. OLIVE EV. LUTHERAN CHURCH 2460 MT. OLIVE DRIVE

MUNICIPALITY: VILLAGE of SUAMICO BROWN COUNTY

DESIGNER'S PROJECT NUMBER: G216-667 PROJECT SITE # (If known): 837280

TRANSACTION ID # (If known): 2929520 ASSIGNED REVIEWER (If known): John D. Vanbuecken (Green Bay)

DATE OF REVIEW (If known): MAY 24, 2017 IDENTICAL BUILDINGS: NONE (THIS IS A SINGULAR PROJECT)

TYPE OF SUBMITTAL: ADDITION / ALTERATION 2 OBJECTS: BUILDING; (HVAC will be by others)

OCCUPANCY CLASSIFICATION/USE: A (ASSEMBLY - A3); B (BUSINESS/OFFICE) CONSTRUCTION CLASS: VB

STRUCTURAL COMPONENTS: ROOF TRUSS; FLOOR TRUSSES

PROJECT (work) AREA (All Levels): 2,010 SF - (Narthex, Offices, Meeting Room, Basement;

ADDITION / NEW CONSTRUCTION)

<u>1,500 SF</u> - (Toilet Rooms, Storage; REMODELING)

(ALTERATION IS <25% OF EXISTING) TOTAL PROJECT (work) AREA: 3,510 SF - ALL LEVELS

HEATED/VENTILATED AREA: SAME SPRINKLERED / DETECTOR: N/A NUMBER OF FLOOR LEVELS: 2 TOTAL BUILDING AREA <50,000 CF: NO

OTHER BUILDING AREA (No Work): 7,010 SF - (Church, Community Room, Kitchen; NO WORK)
TOTAL BUILDING AREA (all levels): 10,520 SF - (all enclosed; accessible space)

FOOTPRINT (Impermeable Building): 7,610 SF OTHER IMPERMEABLE SITE AREA: (Not Required) SITE AREA: (Not Required) SITE COVER (IMPERMEABLE/SITE): N/A % FAR (FLOOR AREA/site area RATIO): N/A

FIRE ALARM COVERAGE: NONE FIRE SUPPRESSION COVERAGE: NONE

> PARKING REQUIREMENT: 40 (BASED ON 1 PER EVERY 6 SEATS) ON SITE PARKING PROVIDED: 70

OWNER CONTACT / (OWNER): RICK BORZYCH

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ARCHITECT / (FIRM): DANIEL J. ROARTY, AIA / (DIMENSION IV) 124 S. BROADWAY ST. GREEN BAY, WI 54303

TEL: (920) 431-3444 TEL: (920) 431-3445 EMAIL: djroarty@dimension-iv.co WEBSITE: www.dimension-iv.com

STRUCTURAL / (FIRM): BEN GEROLD / (B. T. GEROLD STRUCTURAL ENGINEERING) 701 JUNEAU ST

KEWANEE, WI 54216 TEL: (920) 309-1639 EMAIL: btgerold@gmail.com

HVAC / (FIRM): DALE PEARSON / (FACILITY ENGINEERING CONSULTANTS)

EMAIL: dpearson@facility-engineering.com

2031 RIVERSIDE DR. GREEN BAY, WI 54301 TEL: (920) 445-0430

ELECTRICAL / (FIRM): HARLAND MATTHEWS / (MIDWEST DESIGN SOLUTIONS)

2676 BAY SETTLEMENT RD. GREEN BAY, WI 54311 TEL: (920) 471-0805 EMAIL: harland@mwdsolutions.com

PUMBING / (FIRM): RIVERSIDE ENGINEERING & DESIGN, INC.

1756 RIVERSIDE DRIVE P.O. BOX 255 SUAMICO, WI 54173-0255 TEL: (920) 434-9031

#### LIST OF DRAWINGS

- T001 TITLE SHEET, PROJECT INFORMATION, CODE REVIEW G003 CODE DETAILS, EGRESS PLAN
- A100 OVERALL SITE PLAN, CONSTRUCTION SITE PLAN
- A200 FIRST FLOOR DEMOLITION PLAN A201 BASEMENT ADDITION PLAN (Also Basement Demolition Plan)
- A202 FIRST FLOOR ADDITION PLAN, ROOM FINISH SCHEDULE, DOOR SCHEDULE A300 BUILDING ELEVATIONS A400 BUILDING SECTIONS, WALL SECTIONS
- S100 STRUCTURAL GENERAL NOTES
- S200 FOUNDATION PLAN, FOUNDATION DETAILS
- S201 SHEAR WALL PLAN, SHEAR WALL SCHEDULE & DETAILS S202 FLOOR FRAMING PLAN, ROOF FRAMING PLAN, NOTES, SCHEDULES, DETAILS
- M100 HVAC PLAN
- M101 HVAC DEMOLITION, SCHEDULES & DETAILS
- P.1 MAIN FLOOR VENT & WASTE P.2 MAIN FLOOR PLUMBING FIXTURES
- P.3 PLUMBING ISOMETRIC; SCHEDULES AND SPEC
- E100 DEMOLITION PLAN E200 LIGHTING PLANS
- E201 EMERGENCY LIGHTING PLAN
- E202 POWER / SYSTEMS PLAN
- E700 SCHEDULES AND DETAILS
- E701 RISER AND SYMBOLS

MAY 2, 2017

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SHEET INDEX:

TITLE SHEET; PROJECT INFORMATION CODE REVIEW