

LAKESHORE LEARNING CENTER - WINDOW REPLACEMENT

MUSKEGON AREA ISD

1001 WESLEY AVENUE
MUSKEGON, MICHIGAN 49442

ARCHITECT'S PROJECT # 1380-23

BIDDING AND PERMITS

06.30.2023

ABBREVIATIONS

ABOVE FINISH FLOOR	AFF	GALVANIZED	GALV	QUARRY TILE	QT
ACOUSTICAL TILE	ACT	GAUGE	GA		
ADJACENT	ADJ	GLASS	GL		
AIR ADMITTANCE VALVE	AAV	GRADE	GR	RADIUS	R
ALUMINUM	AL	GYP SUM BOARD	GYP BD	REFRIGERATOR	REFRIG
AMERICAN DISABILITIES ACT	ADA	GLAZED MASONRY UNIT	GMU	REINFORCEMENT	REINF
ANODIZED	ANOD.			REQUIRED	REQ'D
APPROXIMATELY	APPROX	HAND DRYER	HD	ROOF DRAIN	RD
AREA DRAIN	AD	HANDICAPPED	HDGP	ROOF VENT	RV
AT	@	HARDWOOD	HDWD	ROOM	RM
		HEATING	HTG	ROUGH OPENING	RO
		HEATING VENTILATION AND AIR CONDITIONING	HVAC	RUBBER FLOOR TILE	RFT
BASMENT	BSMT	HEIGHT	HT	SANITARY SECTION	SAN SECT
BEARING	BRG	HIGH POINT	HP	SHEET	SHT
BENCH MARK	BM	HIGHWAY	HXY	SHEET METAL	SHT MTL
BETWEEN	BTWN	HOLLOW METAL	HLM	SIMILAR	SIM
BARRIER FREE	B.F.	HORIZONTAL	HORIZ	SIMILAR TO SMART BOARD SPECIFICATION	SIM TO SB SPEC
BLOCK	BLK	HOT WATER	HW	SQUARE	SG
BOARD	BD	HOT/COLD WATER	HGW	STAINLESS STEEL	SS
BOTTOM OF	B.O.			STANDARD	STD
BOTTOM OF STEEL BUILDING	B.O.S. BLDG	INCLUDE INFORMATION	INCL INFO	START POINT	SP
		INSULATION	INSUL	STEEL STORAGE STRUCTURAL SUSPENDED	STL STOR STRUCT SUSP
		JANITOR	JAN	TACK BOARD	TB
		JANITOR CLOSET	JC	TEMPERED	TEMP
		JOINT	JT	TONGUE & GROOVE	T & G
		JOIST	JST	TOP OF FOOTING	T.O. FTG
				TOP OF FOUNDATION	T.O. FND
CABINET	CAB			TOP OF STEEL	T.O.S.
CARPET	CPT	LAMINATE	LAM	TOP OF WALL	T.O.W.
CATCH BASIN	CB	LINEAR	LIN	THICK THROUGH TYPICAL	THK THRU TYP.
CEILING	CLG	LONG LEG VERTICAL	LLV		
CENTER LINE	CL	LOWER LEVEL	LL		
CLEAN OUT	CO			UNDERWRITER'S LABORATORY UNLESS NOTED OTHERWISE	UL UNO
COLD WATER	CW	MAN HOLE	MH		
COLUMN	COL	MANUFACTURER	MFR		
CONCRETE	CONC	MARKER BOARD	MB		
CONCRETE MASONRY UNIT	CMU	MASONRY OPENING	MO		
CONTINUOUS CONTROL JOINT	CONT	MECHANICAL METAL	MECH MTL		
CUBIC	CU	MINIMUM	MIN	VENT THROUGH ROOF VENTILATION	VTR VENT
		MISCELLANEOUS MOUNTED	MISC MTD	VERIFY IN FIELD	V.I.F.
				VERTICAL	VERT
DEMOLITION	DEMO	NOMINAL	NOM	VINYL COMPOSITE TILE	VCT
DETAIL	DET	NOT IN CONTRACT NUMBER	NIC NUM	VINYL WALL COVERING	VWC VOL
DIAMETER	DIA				
DIMENSION	DIM	ON CENTER OPENING	O.C. OPNG	WALL CLEAN OUT	W.C.O.
DOWN	DN	OPPOSITE	OPP	WELDED WIRE FABRIC	WWF
DOWNSPOUT	DN	OPPOSITE HAND	O.H.	WELDED WIRE MESH	WWM
DRAWING	DWG	OUTSIDE DIAMETER	OD	WITH	WI
		OVER HEAD DOOR	OHD	WITHOUT	W/O
				WOOD	WD
EACH	EA			WORKMANIZED	WOLM
ELECTRIC	ELEC			WORK POINT	WP
ELECTRIC WATER COOLER	ENG	PAIR	PR		
ELEVATION	EL	PLASTER CEMENT	PLSG	YARD CLEAN OUT	Y.C.O.
ELEVATOR	ELEV	PLASTER GYPSUM	PLSG		
EQUAL EQUIPMENT	EQ	PLATE	PLT		
EXISTING	EXIST	PLYWOOD	PLYND		
EXPANSION	EXP	PORCELAIN CERAMIC TILE	PCT		
EXPANSION JOINT	EJ	PRESSURE TREATED	PT		
FEET	FT				
FINISHED	FIN				
FINISHED FLOOR	FF				
FIRE EXTINGUISHER	FE				
FIRE EXTINGUISHER CABINET FLOOR	FEC				
FLOOR DRAIN	FD				
FOOTING	FTG				
FOUNDATION	FND				
FROM FINISHED FLOOR	FFF				

INDEX OF DRAWINGS

- T1.01 TITLE SHEET
- ARCHITECTURAL
- A1.00 OVERALL FLOOR PLAN, WINDOW TYPE, PARTIAL ELEVATION AND WALL SECTION



SITE LOCATION MAP

LIFE SAFETY / CODE REVIEW NOTES

NFPA 101, 2012 LIFE SAFETY CODE AS AMENDED BY THE STATE
FIRE MARSHAL
BUILDING: 2015 MICHIGAN BUILDING CODE
MECHANICAL: 2015 MICHIGAN MECHANICAL CODE
PLUMBING: 2017 MICHIGAN PLUMBING CODE
ELECTRICAL: 2017 NATIONAL ELECTRICAL CODE
BARRIER FREE: ICC/ANSI A117.1-2009
FIRE CODE: INTERNATIONAL FIRE CODE 2015
ENERGY CODE: ASHRAE 90.1-2013 w/ MICHIGAN AMENDMENTS

BUILDING DATA:

CONSTRUCTION TYPE
ORIGINAL BUILDING 1974 II (000)
- FULLY SUPPRESSED:
- CONTENTS: ORDINARY

BUILDING USE GROUP =
E: EDUCATIONAL OCCUPANCY
SPACES SUBJECT TO 'ASSEMBLY' OCCUPANCY NOTED ON PLAN

ALLOWABLE AREA =
ORIGINAL BUILDING AND ADDITIONS
E = 57,600 S.F., 2 STORY

ACTUAL AREA =
- EXISTING BUILDING = 29,120 S.F., 1 STORY

OCCUPANT LOAD
- E = 630 OCCUPANTS
- ASSEMBLY: (CONFERENCE & DINING): 1/15 S.F. NET
- BUSINESS: 1/100 S.F. GROSS
- CLASSROOM: 1/20 S.F. NET
- KITCHENS: 1/100 S.F. GROSS
- LIBRARIES: READING AREAS 1/50 S.F. NET, STACKS 1/100 S.F. GROSS
- MECHANICAL EQUIPMENT: 1/300 S.F. GROSS
- STORAGE: 1/300 S.F. GROSS

EGRESS REQUIREMENTS
- NUMBER OF EXITS = MULTIPLE PROVIDED
- EGRESS WIDTH = .2 INCHES / OCCUPANT = 126"
- MAXIMUM COMMON PATH OF TRAVEL = - 100'-0"
- EXIT MAXIMUM TRAVEL DISTANCE = 200'-0" FEET
- 6'-0" MINIMUM CORRIDOR WIDTH (CAPACITY = OCCUPANT)

INTERIOR FINISH

- EXITS - CLASS A
- ALL OTHER - CLASS A, B OR C
- INTERIOR WALL & CEILING FINISH IF < 10% OF AGGREGATE WALL & CEILING AREAS OF ANY ROOM MAY BE CLASS C.

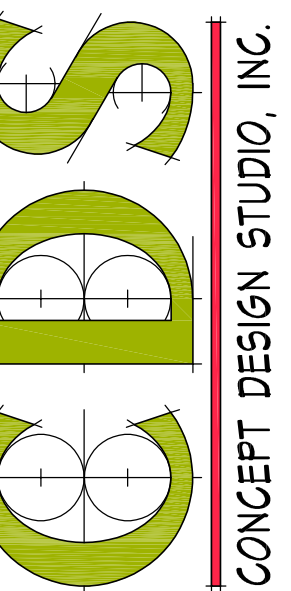
FIRESTOPPING REQUIREMENT

- ALL OPENINGS AROUND MECHANICAL, PLUMBING, ELECTRICAL AND STRUCTURAL PENETRATIONS THRU A FIRE RESISTIVE RATED ASSEMBLY (INCLUDING FLOORS) SHALL BE SEALED WITH FIRE RATED FIRESTOPPING IN COMPLIANCE WITH ASTM E814 AND EQUIVALENT TO THE FIRE RATING REQUIRED. PENETRATIONS THRU SMOKE RESISTIVE, NON-RATED ROOM WALLS SHALL BE SEALED SMOKE TIGHT.

ILLUMINATION & ALARM SYSTEMS:

- ILLUMINATION OF MEANS OF EGRESS
 - REQUIRED FOR CORRIDORS AND PASSAGEWAYS LEADING TO AN EXIT - SEE ELECTRICAL DRAWINGS
 - CONTINUOUS ILLUMINATION DURING OCCUPANCY (MIN. 1 FOOT CANDLE AT FLOOR LEVEL)
- EMERGENCY LIGHTING (EXISTING)
 - REQUIRED FOR CORRIDORS, INTERIOR STAIRS, INTERIOR OR WINDOWLESS AREAS, AND OTHER NORMALLY OCCUPIED SPACES EXCEPT ADMINISTRATIVE AREAS, GENERAL CLASSROOMS, MECHANICAL ROOMS AND STORAGE AREAS.
 - DURATION OF 1 1/2 HOURS WITH INITIAL ILLUMINATION AVERAGE OF 1 FOOT CANDLE
 - SEE ELECTRICAL DRAWINGS FOR LAYOUT
- EXIT SIGNS (EXISTING)
 - REQUIRED FOR EXITS AND EXIT ACCESS MEANS - SEE ELECTRICAL DRAWINGS FOR LAYOUT
 - SIGNS SHALL BE CONTINUOUSLY ILLUMINATED DURING OCCUPANCY AND ALSO BY EMERGENCY LIGHTING FACILITIES
- FIRE ALARM SYSTEM (EXISTING)
 - REQUIRED FOR EDUCATIONAL AND ASSEMBLY OCCUPANCIES - SEE ELECTRICAL DRAWINGS FOR LAYOUT
 - INITIATION SHALL BE BY MANUAL FULL STATIONS
 - NOTIFICATION SHALL BE BY AUDIBLE AND VISIBLE SIGNALS COMPLYING WITH NFPA 72 AND ANSI A117.1
 - SHALL ACTUATE THE RELEASE OF HOLD-OPEN DEVICES FOR DOORS & OTHER OPENING PROTECTIVES, SHALL ACTUATE THE EMERGENCY LIGHTING SYSTEM AND ACTUATE THE EMERGENCY SHUT-OFF OF GAS & FUEL SUPPLIES
 - SYSTEM CONTROL STATION SHALL BE LOCATED IN THE GENERAL OFFICE AREA

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WINDOW REPLACEMENTS
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PROJECT # 1380-23

ISSUANCES

BIDDING & PERMITS 6.30.2023

REVISIONS

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DRAWN BY AMM

SHEET TITLE

TITLE SHEET

SHEET NO.

T1.01