INTERIOR RENOVATIONS
EVANGEL BAPTIST CHURCH
16994 TELEGRAPH RD., TAYLOR, MI 48180

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DRAWING INDEX

DIVISION 1: GENERAL CONDITIONS
Contractor Use of Site
Limit use of the premises to work in areas indicated. Confine operations to areas within contract limits indicated. Do not disturb portions of the site beyond the areas in which the work is indicated.

Occupancy Requirements
Obtain a Certificate of Occupancy from the local building officials prior to owner occupancy. Upon occupancy, the Owner will assume responsibility for maintenance, security and custodial service.

Owner Furnished Products
The contractor shall be responsible for receiving, storing, installing and providing all necessary coordination for a complete system and installation including all necessary electrical and plumbing services and all required framing and finishing.

Permits and Fees
The General Contractor will obtain and pay for the general building permit. All other permits and fees will be obtained and paid by the individual contractors requiring same. Contractor to schedule and coordinate with all public utilities. There shall be no reimbursable charges for utility hook up services. The contractor is responsible for calling for appropriate inspections from governing authorities.

Existing Conditions and Inspection of the Site
Before submitting his proposal, the bidder shall visit and inspect the site, examine its conditions including adjacent properties and thoroughly acquaint himself with its obstacles and advantages for performing the work. He shall also study the drawings explanatory of his contract and compare the same with the information gathered by the examination of the site, as no extra charge will be allowed him for extra work caused by his unfamiliarity with the site and the drawings.

Shop Drawings and Samples
The contractor is responsible for confirmation of all dimensions and coordination of the work with all trades. Submit shop drawings to the architect for review of the following systems: mechanical, electrical, hardware, millwork, plumbing, windows, entry doors and frames, and site utilities.

Safety Standards and Protection
Maintenance of safety standards shall be a special responsibility of the general contractor. It shall be the contractor's responsibility to assure that all work shall comply with current safety standards and regulations of the State of Michigan. Contractors shall be responsible to maintain all railings, fences and barriers necessary for the protection of the public and workers and provide fire extinguishers as required by state and local code requirements during construction. Contractors shall protect all work and adjacent property from damage from the weather and construction process. All damage incurred shall be repaired promptly at the cost of the contractor. The general contractor shall obtain permission from the proper authorities for construction of barricades, bulkheads, etc. on public property and construct it as required by municipal regulations. The contractor shall be responsible to maintain temporary barricades along the right-of-way area and adjacent site and at all open excavations. It shall be the responsibility of the general contractor to provide, erect, maintain, and remove all scaffolding, staging, platforms, temporary runways, temporary flooring, guards, railings, fences, warning signs, lights, stairs, ladders, etc. as required by local and state codes of law for the protection of workmen and the public. The construction, inspection and maintenance of the above items shall comply with all safety codes and regulation as applicable to the project. It will be the responsibility of the general contractor to communicate with the adjacent property owner before beginning any work affecting his property.

Warranty and Building Manual
The contractor shall submit to the owner all guarantees, bonds, instructions, warranties and operation instructions, bound in a building manual. All warranties are to commence on the date of substantial completion. The manual shall include: Certificate of Substantial Completion; guarantees for Architectural, mechanical, electrical and roofing work: all applicable installation, operation and maintenance instructions; mechanical system control diagrams; inspection certificates; and a list of names and addresses of all subcontractors and suppliers. In addition, the contractor shall submit to the owner a written guarantee against defective materials or workmanship for a period of one year from the date of substantial completion.

Insurance
A certificate of Insurance shall be filed with the owner prior to commencement of work and shall include the following coverage or coverage amounts as approved by the owner;
Worker's Compensation: Provide amounts compliant with state statutory requirements.
Public Liability and Contingent Public Liability: $1,000,000 each occurrence, $2,000,000 aggregate.
Direct and Contingent Property Damage Insurance: $1,000,000 each occurrence, $2,000,000 aggregate.
Builder's Risk Insurance.
To cover loss due to fire, theft or malicious destruction in amount equal to the cost of replacement, the owner shall carry Builder's Risk insurance for the duration of the project up to the date of owner occupancy as established by the certificate issued by the Architect. The owner shall purchase liability insurance and property insurance not to duplicate the above coverage. The contactor shall verify and confirm in writing with the owner all of the above amounts.

Damage to Structure
Until this contract is complete and the building accepted by the owner, the contractor shall be solely responsible for and shall repair, replace or make good all loss, injury or damage to the owner's property and or adjoining property caused by or arising out of the prosecution of the work from any claim, action or cause of action.

Special conditions
Substitutions
Appropriate substitutions shall be submitted to the Architect for review. Approval of substitutions will be granted on the basis of performance, cost, appearance, and timely installation. Acceptance will not be guaranteed of substitutions not submitted and approved prior to award of contract.

Dimensions
All contractors shall verify dimensions in the field. The general contractor, all subcontractors, and all suppliers involved with the project shall verify the dimensions on the drawings to the site required on the project. Report to the Architect at once any discrepancies from those shown on the drawings, etc., to those actually at the site. The drawings are not intended to be scaled for rough or finish measurements nor to serve as field shop drawings.

Temporary Construction Facilities and Utilities
Comply with industry standards and applicable laws and regulations of authorities having jurisdiction for installation and use of temporary facilities and services. Keep temporary services and facilities clean and neat in appearance. Do not overload facilities or permit them to interfere with progress. Take necessary fire prevention measures. Do not overload facilities or permit dangerous or unsanitary conditions or public nuisances to develop or persist on site. Provide new materials and equipment for temporary services and facilities. Provide materials and equipment suitable for use intended.

Electrical Outlets: Provide properly configured, NEMA-polarized outlets to prevent insertion of 110 to 120 volt plugs into higher voltage outlets. Provide receptacle outlets equipped with ground fault circuit interrupters, reset button, and pilot light for connection of power tools and equipment.

Electrical Power Cords: Provide grounded extension cords. Use hard service cords where exposed to abrasion and traffic. Provide waterproof connectors to connect separate lengths of separate cords if single lengths will not reach areas where construction activities are in progress. Do not exceed safe length to voltage ratio.

Lamps and Light Fixtures: Provide general service incandescent lamps of wattage required for adequate illumination. Provide guard cages or tempered glass enclosures where exposed to breakage. Provide exterior fixtures where exposed to moisture. Provide temporary lighting with local switching.

Heating Units: Provide temporary heating units that have been tested and labeled by UL, FM, or another recognized trade association related to the type of fuel being consumed. Select safe equipment that will not have a harmful effect on completed installations or elements being installed. Coordinate ventilation requirements to procure the ambient condition required and minimize consumption of energy. Use of gasoline space heaters, open flame, or salamander heating units is prohibited.

Fire Extinguishers: Provide hand carried, portable, UL rated, Class ABC dry chemical fire extinguishers for temporary spaces. Comply with NFPA 10 and NFPA 241 for classification, extinguishing agent, and size required by location and class of fire exposure.

Temporary Lighting: Provide temporary lighting with local switching.

Temporary Heat: Provide temporary heat required by construction activities for curing or drying of completed installations or for protection of installed construction from adverse effects of low temperatures or high humidity. Select safe equipment that will not have a harmful effect on completed installations or on elements being installed. Coordinate ventilation equipment to produce the ambient condition required and minimize consumption of energy.

Heating Facilities: The use of gasoline burning space heaters, open flame, or salamander heating units is prohibited.

Temporary Telephones: Provide temporary telephone service throughout the construction period for all personnel engaged in construction activities.

Storage of Material
Storage of building materials for all trades on the site will be permitted in designated areas only.

Cleaning-Up
The general contractor shall be responsible at all times to keep the premises clean and free from accumulation of waste materials and rubbish caused by his employees or work. At the completion of the project, remove from and about the building all the rubbish, tools, scaffolding, and surplus materials; clean all stains, dirt etc., from glass and other finished work and leave the premises ready for use. All trades for each division of work shall conduct a general clean up and remove all debris daily from his operation.
Contractor to provide all dust barriers and screens as required to prevent dust from traveling to occupied areas of the building. Drop cloths and vacuum cleaners shall be used as necessary
equipment for keeping premises clean during and after business hours. At the completion of the job, leave the entire site clean and free of any deleterious materials of any kind.

DIVISON 2: DEMOTLITION
Demolition
Contractor to review all site and building drawings to determine the extent and items to be removed including utilities and services to be removed. All items not requested to be salvaged and turned over to the owner shall be removed from the site. Sawcut and remove all existing concrete and masonry as shown to perform the work. Legally dispose of off the site. Provide all shoring and underpinning to maintain the integrity of the existing and adjacent structures. The contractor shall use extreme care in removal work and shall at all times use precautions to guard against movement or settlement of adjacent buildings. Provide shoring, and take care to prevent any damage of materials of adjacent buildings. This contractor shall be liable for any such movement or settlement and any damage or injury caused thereby or resulting thereby.

DIVISION 3: CONCRETE
All concrete work shall comply with recommended ACI standards and applicable code requirements. All concrete placing and weather condition protection practices to comply with American Concrete Institute (ACI) standards and recommendations. No calcium chloride antifreeze admixtures shall be permitted. All other admixtures to be approved before use. Reinforced concrete footings will be installed for all bearing walls. Footings shall rest on undisturbed soil having a minimum bearing capacity of 3,000 psf. The owner shall be notified immediately if adverse soil conditions are encountered during excavation. Contractor shall provide all form work required footing and concrete work. Interior concrete finishes shall be smooth trowel finish. Exterior concrete shall be a broom finish. Provide control joints and expansion joints where shown on drawings. Strength of concrete side walks, curbs slabs sills, steps and miscellaneous concrete work, minimum 28 day strength of 3,000 psi. Footings, walls, foundations, structural framing, piers and columns to have a minimum 28 day strength of 3750 psi. Exposed concrete surfaces shall be protected from rapid drying from wind, rain and sun.

DIVISION 4: MASONRY
Provide all labor, materials and equipment to complete all masonry work as shown on drawings. Filling of cores, where shown, is not to exceed two-foot lifts and shall be rodded thoroughly. The masonry contractor shall be responsible for setting anchor bolts, masonry wall ties, hollow metal door frames, lintels, opening, bearing plates and all other built in work. Masonry flashing will be placed at all key points of openings, and continuously around perimeter of building at grade, with weep holes every 24 inches in full head joints. Provide all anchoring channels, anchor straps and rough hardware as required and as shown on drawings. Galvanized horizontal joint reinforcement shall be placed as shown on drawings in all concrete masonry. Wires shall be 9 gauge conforming to ASTM A-82. No chipped, stained, broken or wet units are to be incorporated in the work. All walls are to be left clean and free of mortar. All cut units are to be cut to a clean, true edge with a masonry saw. All masonry materials, stockpiles and top of unfinished walls to be covered and protected at the end of each workday. Contractor to provide all weather protection required per masonry institute recommendations. Contractor to provide all temporary bracing and shoring required.

DIVISION 5: METALS
Structural steel shall be detailed, fabricated and erected according to the "Specification for Design, Fabrication and Erection of Structural Steel for Building" by the American Institute of Steel Construction, latest edition. Provide all lintels, anchor bolts, bearing plates, steel pipe handrail and brackets, expansion bolts, etc. as shown on drawings and as required for a complete job. Provide all runners, bridging, bracing and fastening a shown and per manufacturers recommendations.

DIVISION 6: CARPENTRY
Lumber will be sound, thoroughly seasoned and free from warp. Horizontal blocking will be installed at 8 foot height in walls over 8 feet. Firestop concealed spaces where required by codes. Provide wood bucks throughout the construction where required to support or secure work of all trades. Provide all wood nailers, blocking, plywood, etc. interior and exterior where shown on drawings or otherwise required, Install wood blocking as required to support wall. Provide blocking in wall to support pre-manufactured wall cabinets and special counter work throughout the project. Provide ply clips at all open spans where required. Provide all rough hardware required for complete installation, including though bolts, plates, washers, nuts, joist hangers, etc., as noted on drawings or required. Provide and install interior wood trim, window stools, and miscellaneous shelves as shown on drawings. Install trim plumb and level with miter cut corners throughout. Staples are not permitted. Fill all nail holes in exposed work prior to finishing. All finishes to be as selected by owner. Handrails at stairs shall be hardwood for stain finishes and supported on brackets to withstand loads required by codes. General millwork shall be prefinished. Custom built counter tops shall be provided as part of kitchen cabinets. Verify all dimensions in the fields with the reviewed shop drawings before manufacturing or installing finish millwork.

DIVISION 9: FINISHES
Painting
Membrane flashing and other surface material as noted on finish schedule shall not be painted.

DIVISION 15: MECHANCIAL
General
All mechanical and electrical work is to be performed in compliance to all state and local codes and regulations. Test all systems, submit all balancing reports, and make all necessary adjustments prior to occupancy. The mechanical and electrical contractors shall coordinate and cooperate with the local utility companies and shall be responsible for acquiring all necessary permits and connections. The minimum temperature at 24" above finished floor shall be 68 degrees Fahrenheit.

DIVISON 16: ELECTRICAL AND TELEPHONE
General
The contractor shall submit complete and detailed drawings indicating the proposed circuiting system, service distribution, control panels, meters, materials and procedures. Systems to be identifiable and accessible; requiring labeling, conduit and panel identification, full instrumentation, and access panel. The bid shall include an outline description of the proposed system. The electrical contractor shall consult the plans thoroughly to become familiar with the construction. The contractor shall visit the site and inventory the electrical items to be terminated, relocated, installed and the conditions that exist. The contractor shall connect all owner supplied equipment as shown on the drawings and per approved shop drawings. The electrical contractor is to provide all conduit, raceways, outlets, switches, boxes and disconnects required for new work. All electrical work shall conform to the National Electrical Code and to all other state and local ordinances. Grounding of equipment shall be according to NEC Article 250. Comply with required construction standards of the local utility company. Wire for general interior and exterior use, sizes No. 10AWG and smaller, single conductor, annealed copper, NEC type XHHW or THHN/THWN rated 75 degrees C, 600 volts. Cabinets shall be flush mounting type as indicated with minimum 20 inch box NEMA 1. Provide gutter space to accommodate size of cable used in accordance with NEC. Equip the panel with hinged door and flush type combination catch and lock. The electrical contractor shall provide and install all of the light fixtures shown on the lighting plan or as provided by the owner. Conform work to applicable electrical and barrier free codes.

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REVISIONS

STATE OF MICHIGAN
WAYDE C. HOPPE
ARCHITECT
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LICENSED ARCHITECT
WAYDE C. Hoppe

PROJECT: 2209
DATE: 9.30.22
DRAWN: JPH
CHECKED: WCH

TITLE SHEET

DT

GENERAL
IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE ADEQUATE SHORING AND BRACING DURING CONSTRUCTION TO ACCOUNT FOR ALL FORCES, INCLUDING BUT NOT LIMITED TO FORCES FROM GRAVITY, EARTH, WIND AND UNBALANCED FORCES DUE TO CONSTRUCTION SEQUENCES.

THE STRUCTURAL INTEGRITY OF THE BUILDING SHOWN ON THESE PLANS IS DEPENDENT UPON COMPLETION ACCORDING TO PLANS AND SPECIFICATIONS. STRUCTURAL MEMBERS ARE NOT SELF BRACING AND SHALL BE SHORED AND/OR BRACED BY THE CONTRACTOR AS NECESSARY UNTIL STABILIZED BY VIRTUE OF COMPLETED CONNECTIONS.

FIELD MEASURE AND VERIFY ALL DIMENSIONS AND ELEVATIONS BEFORE FABRICATION.

FOUNDATIONS
ALL FOOTINGS SHALL BEAR ON UNDISTURBED SOIL, HAVING A MINIMUM SAFE BEARING CAPACITY. THE TESTING AND INSPECTION AGENCY SHALL VERIFY SOIL BEARING CAPACITY AT EACH FOOTING PRIOR TO INSTALLATION OF FOOTING. NOTIFY ENGINEER OF ANY VARIATION FROM ANTICIPATED BEARING CAPACITY FOR APPROPRIATE RE-DESIGN OR LOWERING OF FOOTING.

THE BOTTOMS OF ALL EXTERIOR FOOTINGS SHALL BE 3'-6" MINIMUM BELOW FINISHED GRADE. IF THE BUILDING WILL BE UNDER CONSTRUCTION DURING FREEZING WEATHER, ALL INTERIOR FOUNDATIONS SHALL BE DEPRESSED 3'-6" BELOW CONSTRUCTION GRADE FOR FROST PROTECTION. IF SUCH ADDITIONAL FOOTING DEPTH WILL CAUSE UNDERMINING OF ADJACENT EXISTING FOOTINGS OR STRUCTURES, PROVIDE APPROPRIATE SHORING, BRACING OR UNDERPINNING AS REQUIRED OR LEAVE FOOTING ELEVATION AS DESIGNED AND PROVIDE CONTINUED PROTECTION AND HEAT TO PREVENT FORMATION OF FROST BELOW FOOTING AND ADJACENT TO FOOTING.

THE CONTRACTOR SHALL SAFEGUARD AND PROTECT ALL EXCAVATIONS AND ADJACENT STRUCTURES, PAVEMENTS, AND UTILITIES. ALL EXCAVATIONS SHALL BE KEPT FREE OF WATER. THE CONTRACTOR IS RESPONSIBLE FOR THE DESIGN, INSTALLATION, MAINTENANCE AND REMOVAL OF ALL SHORING, BRACING, AND DEWATERING THAT IS REQUIRED TO PROPERLY CONSTRUCT THE FOUNDATIONS AND PROTECT ADJACENT STRUCTURES, PAVEMENTS AND UTILITIES.

PRETREAT EXCAVATIONS WITH TERMITICIDE AND INSPECT EXCAVATIONS PRIOR TO POURING CONCRETE.

TEMPORARY BRACING MUST BE PROVIDED TO RESIST ALL LATERAL FORCES UNTIL STRUCTURAL SYSTEM IS SELF SUPPORTING.

CONCRETE SLABS
PLUMBING AND ELECTRICAL CONTRACTORS ARE TO PROVIDE ALL REQUIRED UNDERSLAB WORK PRIOR TO POURING THE FLOOR SLAB.

INSPECT ALL REINFORCING BEFORE POURING CONCRETE.

SLOPE SLABS TO FLOOR DRAINS. VERIFY DEPRESSIONS AND FLOOR FINISHES.

PROVIDE 3" CONCRETE COVER MINIMUM FROM TOP OF SLAB TO SLAB REINFORCING AND LAP ALL STEEL FABRIC SPLICES 6" MIN. REINFORCING SHALL BE CENTERED IN SLAB.

GRANULAR BASE TO BE COMPACTED TO 95% MODIFIED PROCTOR DENSITY UNDER ALL SLABS ON GRADE.

REINFORCING
MINIMUM CONCRETE COVERING SHALL BE:
- 3" FOOTING BOTTOM
- 2" COLUMNS, BEAMS AND FORMED SURFACES IN DIRECT CONTACT WITH SOIL OR EXPOSED TO THE WEATHER, EXCEPT SLABS.
- 2" DECK SLAB TO TOP
- 1 1/2" DECK SLAB TO BOTTOM
- 1" INTERIOR FACES OF WALLS AND SLABS NOT EXPOSED TO WEATHER
- 3/4" INTERIOR SLABS

MASONRY
MASONRY WALLS ARE TO BE ADEQUATELY BRACED DURING CONSTRUCTION. SEE "STANDARD PRACTICE FOR BRACING MASONRY WALLS UNDER CONSTRUCTION" BY THE COUNCIL FOR MASONRY WALL BRACING AND ALSO NCMA TEK 304B "BRACING CONCRETE MASONRY WALLS DURING CONSTRUCTION" FOR RECOMMENDATIONS REGARDING BRACING.

PLACE LADDER TYPE HORIZONTAL JOINT REINFORCING WITH PREFORMED LAPPED CORNER REINFORCING.

THE DISCONTINUOUS ENDS OF ALL MASONRY WALLS SHALL BE SOLIDLY GROUTED A MINIMUM OF 8" OR ONE BLOCK CELL AND REINFORCED FOR THEIR FULL HEIGHT WITH ONE #5 BAR UNO.

AT GROUTED CELLS LIFTS OF GROUT SHALL BE KEYED 4" INTO THE COURSE OF MASONRY BELOW.

ALL CMU BOND BEAMS TO HAVE (2) #4 BARS CONTINUOUS. PROVIDE (2) #4 L BARS AT EVERY CORNER LAPPED 3'-0" WITH CONTINUOUS BARS.

VERTICAL CONTROL JOINTS IN CMU WALLS TO HAVE A MINIMUM 3/8" GAP AND SHALL BE LOCATED BY THE ARCHITECT, BUT NOT MOVE THAN 20'-0" OC.

BRICK TIES SHALL BE GALVANIZED ADJUSTABLE 2-PIECE WIRE TIES OF NOT LESS THAN 9 GAGE AND SHALL BE SPACED AT 16" OC VERTICALLY AND HORIZONTALLY.

WHERE MASONRY MEETS STRUCTURAL MEMBERS SUBJECT TO VERTICAL DEFLECTION, PROVIDE ALLOWANCE FOR VERITICAL MOVEMENT OF L/240 OF STRUCTURAL MEMBER.

BOND BEAM REINFORCING TO BE CONTINUOUS ACROSS CONTROL JOINTS.

PROVIDE A 24" LAP AT FOUNDATION DOWELS.

AIR TEMPERATURE AT TIME OF MASONRY INSTALLATION SHALL BE 40<T<90 DEGREES F.

METAL DECK
UNLESS OTHERWISE NOTED, ALL METAL DECK HAS BEEN DESIGNED TO BE CONTINUOUS OVER 3 SPANS MINIMUM AND SHALL BEAR AT LEAST 2" ON STEEL SUPPORTS. FOR ONE OR TWO SPAN CONDITIONS, THE CONTRACTOR SHALL PROVIDE SHORING AS REQUIRED OR FURNISH HIGHER GAGE DECK AS REQUIRED TO SUPPORT ALL THE APPLICABLE LOADS. CONTRACTOR SHALL SUBMIT ALTERNATE FOR APPROVAL.

PROVIDE REINFORCING CHANNELS, STANDARD CLOSURES, CANT STRIPS, SUMP PANS, FINISH STRIPS, POUR STOPS, AND OTHER ACCESSORIES AS REQUIRED FOR PROPERLY FINISHED JOB, EVEN IF NOT SPECIFICALLY SHOWN ON THE DRAWINGS. PROVIDE BEARING ANGLES WELDED TO COLUMNS TO SUPPORT METAL DECKS AS REQUIRED.

FASTEN STEEL DECK UNITS TO STRUCTURAL SUPPORTS USING HEX WASHER HEAD TEK SCREWS OR ARC SPOT WELDS ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND IN CONFORMANCE WITH THE STEEL DECK INSTITUTES SPECIFICATION SECTION 4.4.

ARC SPOT WELDS (PUDDLE WELDS) TO SUPPORTS SHALL HAVE A DIAMETER OF 5/8" MINIMUM OR AN ELONGATED WELD OF 3/8" MINIMUM WIDTH AND 3/4" MINIMUM LENGTH. WELD METAL SHALL PENETRATE ALL LAYERS OF DECK MATERIAL AT END LAPS AND HAVE ADEQUATE FUSION TO THE SUPPORTING MEMBERS. WELDING SHALL BE DONE IN ACCORDANCE WITH THE AMERICAN WELDING SOCIETY STANDARD " SPECIFICATION FOR WELDING SHEET STEEL IN STRUCTURES" AWS D1.3.

UNITS SHALL BE FASTENED TO THE STEEL SUPPORTS AT THE END OF THE UNITS AND AT INTERMEDIATE SUPPORTS AND TO THE STEEL SUPPORTS AT THE SIDE BOUNDARIES BY 1" DIAMETER PUDDLE WELDS AT 12" OC. SHEAR STUDS WELDED THROUGH DECK MAY BE USED IN PLACE OF 1" DIAMETER PUDDLE WELDS.

THE SIDE LAPS OF ADJACENT UNITS SHALL BE FASTENED BETWEEN SUPPORTS BY BUTTON PUNCHING AT 24" OC UNO.

STRUCTURAL STEEL
UNLESS OTHERWISE NOTED, ALL BEAMS AND LINTELS BEARING ON MASONRY SHALL HAVE A MINIMUM BEARING LENGTH OF 7 1/2" AND SHALL HAVE A MINIMUM OF TWO BLOCK COURSES AT 32" LONG OF SOLID MASONRY UNDER THE BEARING SURFACE.

WHERE STEEL CONNECTIONS ARE NOT FULLY DETAILED ON THE DESIGN DRAWINGS (WITH ALL REQUIREMENTS FOR BOLTS, PLATES, WELDS, DIMENSIONS, ETC SHOWN) CONNECTIONS SHALL BE DESIGNED BY THE STEEL CONTRACTOR UNDER THE SUPERVISION OF A P.E. LICENSED IN THE STATE THAT HAS JURISDICTION OVER THE PROJECT.

WHERE TYPICAL OR INCOMPLETE CONNECTIONS ARE SHOWN ON THE DESIGN DRAWINGS, THOSE DETAILS SHALL BE USED AS A BASIS FOR CONNECTION DESIGN TO BE COMPLETED BY THE CONTRACTOR. ALTERNATE CONNECTIONS DESIGNED BY THE STEEL CONTRACTOR WILL BE PROVIDED IF REQUIRED DESIGN FORCES CANNOT BE ACHIEVED BY THE TYPICAL OR EXAMPLE CONNECTION, OR IF AUTHORIZATION TO ALTER THE DETAIL IS PROVIDED BY THE DESIGN ENGINEER.

WHERE CONNECTION FORCES ARE INDICATED ON THE DRAWINGS, PROVIDE CONNECTIONS DESIGNED TO RESIST THE FORCE SHOWN.

WHERE CONNECTION FORCES ARE NOT INDICATED ON THE DRAWINGS, PROVIDE CONNECTIONS DESIGNED TO RESIST FORCES AS FOLLOWS:
FOR SHEAR CONNECTIONS IN NON-COMPOSITE MEMBERS, DESIGN CONNECTIONS TO RESIST 50% OF THE TOTAL ALLOWABLE UNIFORM LOAD SHOWN IN THE TABLES IN PART 3 OF THE AISC MANUAL OF STEEL CONSTRUCTION.
FOR SHEAR CONNECTIONS IN COMPOSITE MEMBERS, DESIGN CONNECTIONS TO RESIST 75% OF THE TOTAL ALLOWABLE UNIFORM LOAD SHOWN IN THE TABLES IN PART 3 OF THE AISC MANUAL OF STEEL CONSTRUCTION.
FOR MOMENT CONNECTIONS, DESIGN CONNECTIONS TO RESIST 100% OF MOMENT CAPACITY OF THE MEMBER.

ALL FULLY TENSIONED A490 BOLTS SHALL HAVE WASHERS BENEATH BOTH NUT AND HEAD. PROVIDE TEMPLATES TO LOCATE ANCHOR BOLTS AND BASE PLATES.

SHOP AND FIELD CONNECTIONS SHALL BE MADE BY WELDING OR HIGH STRENGTH BOLTING. BOLTED CONNECTIONS SHALL CONFORM TO ASTM A325-X USING LOAD INDICATOR WASHERS (LW) OR LOAD INDICATOR BOLTS (LIB). BEAM CONNECTIONS SHALL PROVIDE SHEAR CAPACITY TO SUPPORT A REACTION R EQUAL TO HALF THE SHEAR CAPACITY OF BEAM. USE 3/16" DIA BOLTS, E70XX 1/4" WELD AND 1/8" ANGLE THICKNESS.

ALL WELDING SHALL BE PERFORMED USING THE ELECTRIC ARC METHOD IN ACCORDANCE WITH THE LATEST REVISION OF THE AWS D1.1. E70XX ELECTRODES CONFORMING TO AWS A5.1 OR A5.5 SHALL BE USED FOR SHIELDED METAL ARC METHOD AND FX7-ECXX ELECTRODE CONFORMING TO AWS F5.17 FOR SUBMERGED ARC METHOD.

ALL WELDS SHALL BE PROVIDED AS SHOWN IN THE STRUCTURAL DETAILS UNLESS THICKER WELD IS REQUIRED DUE TO MATERIAL THICKNESSES. WHERE WELD IN NOT DETAILED, WELD SHALL BE DESIGNED BY A LICENSED ENGINEER RETAINED BY THE CONTRACTOR TO MEET CONNECTION CAPACITY REQUIREMENTS LISTED ABOVE. WELD SIZES SHALL BE INCREASED AS NEEDED TO MEET THE FOLLOWING MINIMUM WELD SIZE REQUIREMENTS BASED ON THE SMALLER MATERIAL THICKNESS OF THE PIECES OF STEEL BEING WELDED TOGETHER:

MATERIAL THICKNESS	MIM FILLET WELD SIZE (PROVIDE LARGER WELD IF REQUIRED FOR STRESS)
1/4" AND UNDER	1/8"
OVER 1/4" TO 1/2"	3/16"
OVER 1/2" TO 3/4"	1/4"
OVER 3/4"	5/16"

IF PENETRATIONS THROUGH WEBS OF STEEL BEAMS WILL BE REQUIRED, CONTRACTOR TO NOTIFY ENGINEER OF RECORD.

SEE ARCHITECTURAL DRAWINGS FOR MISCELLANEOUS AND NON-STRUCTURAL STEEL.

STEEL JOISTS
PROVIDE AND INSTALL BRIDGING IN ACCORDANCE WITH STEEL JOISTS INSTITUTE STANDARDS. ALL ENDS OF BRIDGING LINES TERMINATING AT MASONRY WALLS SHALL BE ANCHORED THERETO IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. WHERE BRIDGING DOES NOT TERMINATE AT A MASONRY WALL, THE FIRST AND SECOND BAYS FROM THE END OF THE BRIDGING IS TO BE DIAGONAL X-BRIDGING. MANUFACTURER TO PROVIDE ADDITIONAL BRIDGING AS REQUIRED TO SATISFY SJI UPLIFT REQUIREMENTS.

WHERE STEEL JOISTS SUPPORT MOVEABLE PARTITIONS, JOIST MANUFACTURER SHALL DESIGN JOIST FOR A MAXIMUM LIVE/SNOW LOAD DEFLECTION OF THE SMALLER OF 1/2" AND L/360.

JOIST MANUFACTURER SHALL LIMIT JOIST DEFLECTION DUE TO LIVE/SNOW LOAD TO L/360.

THE ENDS OF STEEL JOIST SHALL BEAR A MINIMUM DISTANCE OF 2 1/2 INCHES OVER STEEL SUPPORTS AND 4 INCHES OVER ALL OTHER SUPPORTS. THE ENDS SHALL BE FASTENED BY BOLTING AND OR WELDING.

ERECTION OF JOISTS AND JOIST BRIDCING SHALL CONFORM TO ALL REQUIREMENTS OF OSHA AND JOIST MANUFACTURER.

WOOD FRAMING
ALL LUMBER IN CONTACT WITH MASONRY OR STEEL TO BE PRESERVATIVE TREATED.

ALL FLUSH FRAMED CONNECTIONS ARE TO MADE USING JOIST HANGERS DESIGNED FOR THE SPECIFIC CONDITION UNLESS OTHER CONNECTIONS ARE PROVIDED.

SHOP DRAWINGS SHALL BE PROVIDED FOR ALL ENGINEERED WOOD MATERIAL INDICATING PRODUCTS, DETAILS, CONNECTIONS AND ACCESSORIES AS REQUIRED BY THE MANUFACTURE TO MEET PROJECT LOADING REQUIREMENTS.

OBSERVE ALL CODE REQUIREMENTS FOR BRIDGING, BORING, AND NOTCHING OF STUDS AND JOISTS. FOR BRIDGING, BORING AND NOTCHING OF ENGINEERED WOOD PRODUCTS OBSERVE ALL MANUFACTURER REQUIREMENTS.

BRIDGING SHALL BE PROVIDED FOR ALL ROOF RAFTERS.

ALL ROOF RAFTERS ARE TO BE 24" ON CENTER UNLESS OTHERWISE NOTED.

ROOF DESIGN NOTES:
A. VERTICAL WEB MEMBERS FOR ALL GABLE END TRUSSES SHALL BE DESIGNED TO RESIST A HORIZONTAL WIND LOAD RESULTING FROM THE DESIGNED WIND SPEED WITHOUT EXCEEDING THE DEFLECTION LIMIT OF L/600 OF THEIR RESPECTIVE VERTICAL SPANS.
B. BRIDGING FOR BOTTOM CHORDS SHALL BE DESIGNED TO DISTRIBUTE THE HORIZONTAL WIND LOAD PROPOSED ON THE COMPLETE BUILDING TO THE SHEAR WALLS AND SHALL BE DESIGNED FOR A TOTAL IMPOSED WIND LOAD ON BUILDING INCLUDING WINDWARD AND LEEWARD PRESSURE FROM THE DESIGNED WIND SPEEDS.

LOADS AND REFERENCES

DESIGN LOADS

TABLE 1604.5		**OCCUPANCY CATEGORY**	II
		WIND	
FIGURE 1609.3.1	V	BASIC WIND SPEED (MPH)	115
SECTION 1609.4.3		EXPOSURE CATEGORY	B
	Iw	IMPORTANCE FACTOR	1
		ADJUSTMENT FACTOR	1.12
		SNOW	
FIGURE 1608.2	Pg	GROUND SNOW (PSF)	25.00
	Is	IMPORTANCE FACTOR	1.00
	Ce	EXPOSURE FACTOR	1.00
	Ct	THERMAL FACTOR	1.00
		ROOF DEAD LOAD (PSF)	20.00
		CEILING DEAD LOAD (PSF)	5.00
		TOTAL UNFACTORED DESIGN ROOF LOAD (PSF)	
		25 + 20 + 5 =	50
		SOILS	
		SELF SUPPORTING FOUNDATION (MINIMUM ALLOWABLE BEARING PRESSURE IN PSF)	3000
		SEISMIC	
TABLE 1604.5		RISK CATEGORY	II
	I_e	SEISMIC IMPORTANCE FACTOR	1.00
FIGURE 1613.3.1(1)	S_S	MAPPED TWO SECOND SPECTRAL RESPONSE ACCELERATION	.1g
FIGURE 1613.3.1(2)	S_1	MAPPED ONE SECOND SPECTRAL RESPONSE ACCELERATION	.04g
SECTION 1613.3.2		SITE CLASS	D
SECTION 1613.3.4	S_{DS}	SHORT PERIOD DESIGN SPECTRAL RESPONSE ACCELERATION	0.1
SECTION 1613.3.4	S_{D1}	ONE SECOND DESIGN SPECTRAL RESPONSE ACCELERATION	0.08
SECTION 1613.3.3, TABLE 1613.3.3(2)	F_A		1.6
SECTION 1613.3.3, TABLE 1613.3.3(2)	F_V		2.4
	S_{MS}	$F_A S_S$	0.16
	S_{M1}	$F_V S_1$	0.12
SECTION 1613.3.1	SDC	SEISMIC DESIGN CATEGORY	A
		NO SPECIAL ANALYSIS REQUIRED FOR SEISMIC DESIGN CATEGORY A	
		ALL LOADS ARE SUBJECT TO MODIFICATION PER REQUIREMENTS OF ASCE-7	

REFERENCES

STRUCTURAL LOADS		ASCE-7	2010
CONCRETE		ACI 301	
		ACI 318 BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE	2010
		ACI SP 66	
		PORTLAND CEMENT ASSOCIATION "DESIGN AND CONTROL OF CONCRETE MIXTURE"	2011
MASONRY		ACI 530/ASCE 5	2013
		ACI 530.1/ASCE 6	
		NCMA TEK 3-4B " BRACING CONCRETE MASONRY WALLS DURING CONSTRUCTION"	2005
BRICK		BIA "TECHNICAL NOTES ON BRICK CONSTRUCTION"	
STEEL		AISC "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS"	13TH EDITION
WELDING		AMERICAN WELDING SOCIETY AWS D1.1/D1.1M	2015
STEEL JOISTS		STEEL JOISTS INSTITUTE "STANDARD SPECIFICATION"	2015
METAL DECK		STEEK DECK INSTITUTE	1987
WOOD		"NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION"	2015
		ANSI/AF&PA NDS	
SOILS REPORT		TO BE PROVDED BY DEVELOPER	

METAL STUD SIZING

ALLOWABLE HEIGHTS

STUD SIZE	16" OC/ 33 KSI **
3 1/2" OR 4" X 20 GA	13'-11"
3 1/2" OR 4" X 18 GA	18'-2"
3 1/2" OR 4" X 16 GA	19'-6"
5 1/2" OR 6" X 20 GA	23'-11"
5 1/2" OR 6" X 18 GA	27'-2"
5 1/2" OR 6" X 16 GA	30'-0"

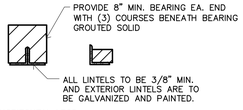
** HEIGHTS BASED ON 16" OC STUD SPACING, 5 PSF LATERAL LOAD, L/240 DEFLECTION, NON-STRUCTURAL APPLICATION. BRIDGING AT MIDPOINTS OR 8'-0" MAX

STUD SIZE	16" OC/33 KSI***	12" OC/33 KSI***
3 1/2" OR 4" X 20 GA	11'-0"	12'-3"
3 1/2" OR 4" X 18 GA	12'-0"	13'-3"
3 1/2" OR 4" X 16 GA	13'-0"	14'-3"
5 1/2" OR 6" X 20 GA	16'-4"	18'-0"
5 1/2" OR 6" X 18 GA	18'-0"	19'-8"
5 1/2" OR 6" X 16 GA	19'-3"	21'-3"
5 1/2" OR 6" X 12 GA	22'-9"	28'-0"
8" X 20 GA	20'-6"	22'-8"
8" X 18 GA	22'-6"	24'-9"
8" X 16 GA	24'-3"	26'-8"
8" X 12 GA	28'-9"	31'-8"

STUD SIZE	16" OC/50 KSI***	12" OC/50 KSI***
3 1/2" OR 4" X 20 GA	12'-0"	13'-6"
3 1/2" OR 4" X 18 GA	13'-3"	14'-8"
3 1/2" OR 4" X 16 GA	14'-3"	15'-8"
5 1/2" OR 6" X 20 GA	18'-0"	20'-0"
5 1/2" OR 6" X 18 GA	19'-8"	21'-8"
5 1/2" OR 6" X 16 GA	21'-3"	23'-4"
5 1/2" OR 6" X 12 GA	28'-0"	31'-0"
8" X 20 GA	22'-6"	25'-0"
8" X 18 GA	24'-9"	27'-3"
8" X 16 GA	26'-8"	29'-4"
8" X 12 GA	31'-8"	34'-9"

*** HEIGHTS BASED ON 20 PSF LATERAL LOAD, L/240 DEFLECTION, STRUCTURAL APPLICATION. BRIDGING AT 1/3 POINTS OR 8'-0" MAX.

MASONRY LINTEL SCHEDULE



HORIZONTAL LEGS
4" MASONRY: ONE 3 1/2"
6" MASONRY: TWO 2 1/2"
8" MASONRY: TWO 3 1/2"
10" MASONRY: TWO 4"
12" MASONRY: TWO 5"

VERTICAL LEGS
SPANS LESS THAN 4'-0": 3 1/2" MIN.
SPANS 4'-0" TO 6'-8": 5" MIN.
SPANS OVER 6'-8" SEE PLANS OR CONTACT ARCHITECT FOR SIZING

NOTES:
1. PROVIDE BRICK SOLIDS AT ALL SILL ENDS.
2. RETURN BRICK AT WINDOWS ADJACENT TO SIDING
3. ALL BRICK LINTELS TO BE GALVANIZED.

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ARCHITECT
No. 1301036190
LICENSED ARCHITECT
WAYDE C. HOPPE

PROJECT: 2209
DATE: 9.30.22
DRAWN: JPH
CHECKED: WCH

STRUCTURAL NOTES

S001

STATEMENT OF SPECIAL INSPECTIONS

STEEL CONSTRUCTION (TABLE 1704.3)	FREQUENCY CONT-INOUS	FREQUENCY PERI-ODIC	REFERENCE CRITERIA REFERENCED STANDARD	IBC REF'RENCE
1. MATERIAL VERIFICATION OF HIGH-STRENGTH BOLTS, NUTS, AND WASHERS:				
A. IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS	—	X	APPLICABLE ASTM MATERIAL SPECIFICATIONS; AISC 360, SECTION A3.3	—
B. MANUFACTURER'S CERTIFICATE OF COMPLIANCE REQUIRED	—	X	—	—
2. INSPECTION OF HIGH-STRENGTH BOLTING				
A. SNUG TIGHT JOINTS	—	X		
B. SLIP-CRITICAL CONNECTIONS WITH MATCHMARKING, TWIST OFF BOLT OR DIRECT TENSION INIDICATOR	X	X	AISC 360, SECTION M2.5	1704.3.3
C. SLIP-CRITICAL CONNECTIONS WITHOUT MATCHMARKING OR CALIBRATED WRENCH METHODS	X			
3. MATERIAL VERIFICATION OF STRUCTURAL STEEL				
A. IDENTIFICATION MARKINGS TO CONFORM TO AISC 360	—	X	AISC 360, SECTION M5.5	
B. FOR OTHER STEEL INDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS		X	APPLICABLE ASTM MATERIAL STANDARDS	
C. MANUFACTURER'S CERTIFIED MILL TEST REPORTS	—	X		
4. MATERIAL VERFICATION OF WELD FILLER MATERIALS				
A. IDENTIFICATION MARKINGS TO CONFORM TO AWS SPECIFICATION IN THE APPROVED CONSTRUCTION DOCUMENTS	—	X	AISC 360, SECTION A3.5 AND APPLICABLE AWS A5 DOCUMENTS	—
MANUFACTURER'S CERTIFICATE OF COMPLIANCE REQUIRED	—	X	—	—
5. INSPECTION OF WELDING				
A. STRUCTURAL STEEL AND COLD FORMED STEEL DECK	—	—		
1) COMPLETE AND PARTIAL PENETRATION GROOVE WELDS	X	—		
2) MULTIPASS FILLET WELDS	X	—		
3) SINGLE-PASS FILLET WELDS < 5/16"	X	—	AWS D1.1	1704.3.1
4) PLUG AND SLOT WELDS	X			
5) SINGLE-PASS FILLET WELDS < 5/16"	—	X		
5) FLOOR AND ROOF DECK WELDS	—	X	AWS D1.3	—
B. REINFORCING STEEL:				
1) VERIFICATION OF WELDABILITY OF REINFORCING STEEL OTHER THAN ASTM A 706	—	X		
2) REINFORCING STEEL-RESISTING FLEXURAL AND AXIAL FORCES IN INTERMEDIATE AND SPECIAL MOMENT FRAMES, AND BOUNDARY ELEMENTS OF SPECIAL REINFORCED CONCRETE SHEAR WALLS AND SHEAR REINFORCEMENT	X	—	AWS D1.4 ACI 318: 3.5.2	—
3) SHEAR REINFORCEMENT	X	—		
4) OTHER REINFORCING STEEL	—	X		
6. INSPECTION OF STEEL FRAME JOINT DETAILS FOR COMPLIANCE WITH APPROVED CONSTUCTION DOCUMENTS:	—	X		
A. DETAILS SUCH AS BRACING AND STIFFENING	—	X	—	1704.3.2
B. MEMBER LOCATIONS	—	X		
C. APPLICATION OF JOINT DETAILS AT EACH CONNECTION	—	X		

REQUIRED VERIFICATION AND INSPECTION OF CONCRETE CONSTRUCTION (TABLE 1704.4)	FREQUENCY CONT-INOUS	FREQUENCY PERI-ODIC	REFERENCE CRITERIA REFERENCED STANDARD	IBC SECTION
1. INSPECTION OF REINFORCING STEEL AND PLACEMENT	—	X	ACI 318: 3.5, 7.1-7.7	1913.4
2. INSPECTION OF REINFORCING STEEL WELDING IN ACCORDANCE WITH TABLE 1704.3, ITEM 5B	—	—	AWS D1.4 ACI 318: 3.5.2	—
3. INSPECT BOLTS TO BE INSTALLED IN CONCRETE PRIOR TO AND DURING PLACEMENT OF CONCRETE WHERE ALLOWABLE LOADS HAVE BEEN INCREASED	X	—	ACI 318: 8.13, 21.2.8	1911.5, 1912.1
4. INSPECTION OF ANCHORS INSTALLED IN HARDENED CONCRETE		X	ACI 318;3.8.6, 8.1.3, 21.2.8	1912.1
5. VERIFYING USE OF REQUIRED DESIGN MIX	—	X	ACI 318: CH. 4, 5.2-5.4	1904.3, 1913.2, 1913.3
6. AT THE TIME FRESH CONRETE IS SAMPLED TO FABRICATE SPECIFIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE	X	—	ASTM C 172 ASTM C 31 ACI 318: 5.6, 5.8	1913.1
7. INSPECTION OF CONCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES	X	—	ACI 318: 5.9, 5.10	1913.6, 1913.7, 1913.8
8. INSPECTION FOR MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES	—	X	ACI 318: 5.11-5.13	1913.9
9. INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED	—	X	ACI 318: 6.1.1	—

LEVEL 1 SPECIAL INSPECTION (TABLE 1704.5.1) INSPECTION TASK	FREQUENCY CONT-INOUS	FREQUENCY PERI-ODIC	REFERENCE CRITERIA OBC SECTION	ACI 530/ ASCE 5/ TMS 402	ACI 530.1/ ASCE 6/ TMS 602
1. AS MASONRY CONSTRUCTION BEGINS, THE FOLLOWING SHALL BE VERIFIED TO ENSURE COMPLIANCE:					
A. PROPORTIONS OF SITE-PREPARED MORTAR	—	X	—	—	ART. 2.6a
B. CONSTRUCTION OF MORTAR JOINTS	—	X	—	—	ART. 3.3B
C. LOCATION OF REINFORCEMENT, CONNECTORS AND ANCHORAGES	—	X	—	—	ART. 3.4, 3.6A
2. THE INSPECTION PROGRAM SHALL VERIFY:					
A. SIZE AND LOCATION OF STRUCTURAL ELEMENTS	—	X	—	—	ART. 3.3F
B. TYPE, SIZE AND LOCATION OF ANCHORS, INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES OR OTHER CONSTRUCTION	—	X	—	SEC. 1.2.2(E), 1.16.1	—
C. SPECIFIED SIZE, GRADE AND TYPE OF REINFORCEMENT	—	X	—	SEC. 1.15	ART. 2.4, 3.4
D. WELDING OF REINFORCING BARS	X	—	—	SEC. 2.1.9.7.2, 3.3.3.4(B)	—
E. PROTECTION OF MASONRY DURING COLD WEATHER (TEMPERATURE BELOW 40 DEG F) OR HOT WEATHER (TEMPERATURE ABOVE 90 DEG F)	—	X	SEC. 2104.3, 2104.4	—	ART. 1.8C, 1.8D
3. PRIOR TO GROUTING, THE FOLLOWING SHALL BE VERIFIED TO ENSURE COMPLIANCE:					
A. GROUT SPACE IS CLEAN	—	X	—	—	ART. 3.2D
B. PLACEMENT OF REINFORCEMENT AND CONNECTORS	—	X	—	SEC. 1.13	ART 3.4
C. PROPORTIONS OF SITE-PREPARED GROUT	—	X	—	—	ART. 2.6B
D. CONSTRUCTION OF MORTAR JOINTS	—	X	—	—	ART . 3.3B
4. GROUT PLACEMENT SHALL BE VERIFIED TO ENSURE COMPLIANCE WITH CODE AND CONSTRUCTION DOCUMENT PROVISIONS	X	—	—	—	ART 3.5
5. PREPARATION OF ANY REQUIRED GROUT SPECIMENS, MORTAR SPECIMENS AND/OR PRISMS SHALL BE OBSERVED	—	—	SEC. 2105.2.2, 2105.3	—	ART. 1.4
6. COMPLIANCE WITH REQUIRED INSPECTION PROVISIONS OF THE CONSTRUCTION DOCUMENTS AND THE APPROVED SUBMITTALS SHALL BE VERIFIED	—	X	—	—	ART. 1.5

REQUIRED VERIFICATION AND INSPECTION OF SOILS (TABLE 1704.7) VERIFICATION AND INSPECTION	FREQUENCY CONT-INOUS	FREQUENCY PERI-ODIC
1. VERIFY MATERIALS BELOW FOOTINGS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY	—	X
2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL	—	X
3. PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS	—	X
4. VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL	X	—
5. PRIOR TO PLACEMENT OF CONTROLLED FILL, OBSERVE SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY	—	X

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SPECIAL INSPECTIONS

S002

UNIT	DESCRIPTION	MANUFACTURER	MODEL	STYLE	FINISH	COLOR	POWER	CONTACT	STANDARDS/ RESPONSIBILITY	COMMENTS
				DIVISION 1						
	FORM OF AGREEMENT	AIA A101								
	GENERAL CONDITIONS	AIA A201								APPLIES TO ALL CONT. AND SUBS
	SUBSTITUTIONS									NONE ACCEPTED FOR PROPRIETARY SPECIFICATIONS
ALL ITEMS LISTED SHALL BE PROVIDED AND INSTALLED BY THE CONTR. FOR A COMPLETE SYSTEM UNLESS OTHERWISE NOTED. THE LISTED CONTACT IS A RECOMMENDED SUPPLIER ONLY.										
AN INCOMPLETE OR INCORRECT PROPRIETARY SPECIFICATION OR UNAVAILABILITY OF A PRODUCT DOES NOT RELIEVE THE CONTRACTOR FROM HIS RESPONSIBILITY TO PROVIDE THE LISTED PRODUCT OR A COMPARABLY EQUAL PRODUCT AS APPROVED BY THE ARCHITECT. INACCURACIES IN THE PRODUCT SPREADSHEET SHALL BE REPORTED TO THE ARCHITECT DURING THE BIDDING PERIOD. ADDITIONAL										
COMPENSATION SHALL NOT BE ALLOWED FOR THE CONTRACTOR FOR INACCURACIES OR OMMISSIONS REPORTED AFTER AWARD OF CONTRACT. ALLOWANCES FOR SELECTED PRODUCTS ARE LISTED IN THE WRITTEN SPECIFICATION.										
				DIVISION 2						
	PVC CEMENT				N/A	N/A	N/A	800-348-7671	D - 1785	
	PVC GRAVITY SEWER SOLVENT WELD BELL				N/A	N/A	N/A	800-348-7671	D - 3034 SDR - 35	
				DIVISION 3						
	STEEL REINFORCING			GRADE 60		N/A	N/A		ACI, ASTM A615	
	CURING COMPOUND	SONNEBORN		FUGITIVE DYE		N/A	N/A			TWO COATS ON SLABS. VERIFY COMPATIBILITY WITH FLOORING.
	CONCRETE SEALER	L&M CONSTRUCTION CHEMICALS	L & M CURE			N/A	N/A	800-362-3331		EPOXY STABILIZED CHLORINATED RUBBER OR ACRYLIC POLYMER
	CONCRETE		3750 PSI			N/A	N/A			APPLIES AT SIDEWALKS, CURBS, SLABS, SILLS, STEPS AND MISC. AGGREGATE MAX. NOT TO EXCEED 1/4 OF SLAB THICKNESS
	CONCRETE		4000 PSI			N/A	N/A			APPLIES AT FOOTINGS, WALLS, FOUNDATIONS, PIERS, COLUMNS,
	WELDED WIRE MESH					N/A	N/A		ASTM A185 54T	
				DIVISION 4						
	CONCRETE MASONRY UNITS		GRADE A	f'm 1500 PSI	8x16	BY OWNER	N/A			NATURAL GREY MORTAR: EXPOSED CONCAVE TOOLED JOINTS
	MORTAR - BELOW GRADE	PORTLAND CEMENT				N/A	N/A		ASTM C-270, TYPE M 2500 PSI	NO WELL OR LAKE WATER IN MORTAR
	MORTAR - ABOVE GRADE	PORTLAND CEMENT				BY OWNER	N/A		ASTM C-270, TYPE S	NO WELL OR LAKE WATER IN MORTAR
	MASONRY GROUT				N/A	N/A	N/A		ASTM C-476, 2500 PSI	ROD OR VIBRATE.
	HORIZONTAL REINFORCING	DUR-O-WALL	LADDER TYPE	GALV.		N/A	N/A		ASTM A-82	9 GAUGE WIRE
	VAPOR BARRIER				N/A	N/A	N/A			POLYETHYLENE, 8 MIL SLAB, 4 MIL WALLS, 2'-0" OVERLAP BENEATH SLABS
				DIVISION 5						
	STRUCTURAL STEEL					N/A	N/A		ASTM A-36	HOLES TO BE DRILLED NOT BURNED
	BOLTS					N/A	N/A		ASTM A-325	
	NUTS					N/A	N/A		ASTM A-563	
	BOLT WASHERS					N/A	N/A		ASTM F-436	
	ANCHOR BOLTS			ZMAX, G-185 COATING		N/A	N/A		ASTM A-325	HOT DIPPED GALVANIZED OR STAINLESS STEEL
	ANCHOR BOLT WASHERS			ZMAX, G-185 COATING		N/A	N/A		ASTM A-36	HOT DIPPED GALVANIZED OR STAINLESS STEEL
	STEEL LINTELS			G 60		BY OWNER	N/A			ALL EXTERIOR LINTELS TO BE GALVANIZED AND PAINTED
	GALVANIZING REPAIR PAINT	SSPC PAINT 20 DOD-P-21035				RED	N/A			
				DIVISION 6						
	FRAMING LUMBER		S4S 19% MAX MOISTURE CONT.		N/A	N/A	N/A		STAMP OF INSPECTION	DOUGLAS FIR OR STRUCTURAL SOUTHERN PINE.
	TREATED LIMBER					N/A	N/A			80% RETENTION
	TREATED LUMBER HARDWARE	SIMPSON	ZMAX G-185 COATING			N/A	N/A			HOT DIPPED GALVANIZED OR STAINLESS STEEL
				DIVISION 7						
	RIGID INSUL - PERIMETER	STYROFOAM FOAMULAR 400	RIGID	SEE DRAWINGS FOR DIMENSIONS	N/A	N/A	N/A			
	SEALANT - INTERIOR			LATEX			N/A			
	SILL SEALER				N/A	N/A	N/A			
				DIVISION 8						
	DOOR: COMMERCIAL METAL	STEELCRAFT	INSULATED	18 GAUGE STEEL	PAINT	BY OWNER	N/A			16 GAUGE STEEL FRAMES WITH WELDED CORNERS AND FRAME REINFORCEMENT. ALL JOINTS WELDED AND GROUND SMOOTH. THREE FRAME ANCHORS MIN. PER JAMB
	DOOR HARDWARE FINISH					BY OWNER				
OFFICE/ STORAGE	HARDWARE LOCKSET	SCHLAGE		JUPITER LEVER	MATCH EXISTING		N/A			
	HARDWARE HINGES	HAGER	BB1279NRP	4 1/2 X 4 1/2	SATIN CHROME	BY OWNER	N/A			
				DIVISION 9						
CPT-1	CARPET TILE	SHAW; JJ INVISION; MOHAWK	NYLON SOLUTION DYED 28 OZ	24" X 24"		BY OWNER				POURED ON PAD, MOISTURE BARRIER, DIRECT GLUE WITH COMMERCIALON LOW VOC ADHESIVE; SOLUTION DYED, LIFETIME WARRANTY ON FIBER
VB-1	VINYL BASE	ROPPE	BY OWNER	BY OWNER	BY OWNER	BY OWNER	N/A			
	PAINT	SHERWIN WILLIAMS		BY OWNER		BY OWNER	N/A			LATEX DRYWALL PRIMER. STAIN BLOCKING PRIMER ON STAINS, AND TWO COATS LOW LUSTER LATEX EGGSHELL
	PAINT - BLOCK AND STUCCO	DEVOE	BY OWNER	BY OWNER	BY OWNER	BY OWNER	N/A			ONE COAT FILLER AND SEALER, AND ONE COAT LATEX SATIN SHEEN.
	PAINT	SHERWIN WILLIAMS				CEILING WHITE	N/A			THOROUGHLY CLEAN WITH WIRE BRUSH AND RINSE. THEN OIL BASED RUST INHIBITIVE METAL PRIMER, ALLOW TO DRY 24 HOURS, TWO COATS LOW LUSTER ACRYLIC
	PAINT - ZINC COATED METAL	DEVOE				BY OWNER	N/A			THOROUGHLY CLEAN AND REMOVE POWDERY OXIDE, GALVANIZED METAL PRIMER, TWO COATS LOW LUSTER ACRYLIC
P-9	STAIN - WOOD EXTERIOR	MAXUM	OPAQUE STAIN			WHITE	N/A			PRIMER AND ONE COAT FINISH
				DIVISION 10						
	HANDRAIL HARDWARE						N/A			
				DIVISION 11						
				DIVISION 12						
				DIVISION 13						
				DIVISION 14						
				DIVISION 15						
	FLOOR DRAIN	ZURN	ZN-415-5B	N/A		N/A	N/A			
	SANITARY PIPING			PVC SCHED. 40 DWV		N/A	N/A		CURRENT CODE	INSULATED CAST IRON IN RETURN AIR PLENUM; WASTELINES SHALL NOT BE CELLULAR PVC
	POTABLE WATER AND CONDENSATE DRAIN PIPING			TYPE L HARD COPPER		N/A	N/A			
	WATER VALVE	CRANE	440 GATE			N/A	N/A			
	PIPE INSULATION	MANVILLE	MICRO-LOK 650			N/A	N/A			
	DRAIN AND VENT PIPING			DWV HARD COPPER		N/A	N/A			OR SCHED. 40 PVC; JOSAM 88902 THREADED AIR GAP
	BALL VALVE					N/A	N/A			
	POTABLE WATER PIPING 1/2"		TYPE L COPPER TYPE M COPPER				N/A			
	POTABLE WATER PIPING 2" TO 3/4"		TYPE K COPPER SOFT				N/A			UNDERSLAB PIPING
				DIVISION 16						
	CONDUIT			3/4" EMT		N/A	N/A			
	DUPLEX RECEPTACLE	HUBBEL	5362			WHITE	20A/120V 1P			STRAIGHT BLADE, 2 POLE, 3 WIRE, NEMA CONFIGURATION 5-20R, 125V SPEC GRADE
	FACE PLATES					WHITE	N/A			
	GFI	HUBBELL	GF5362-I			WHITE	20A/ 125V			2 POLE, 3 WIRE, GROUNDING TYPE, NEMA CONFIGURATION 5-20R
	WALL SWITCHES	HUBBELL				WHITE	20A/ 120/270V			TOGGLE OPERATED

	APPLICABLE CODES		
	BUILDING	2015 MICHIGAN REHABILITATION CODE FOR EXISTING BUILDINGS	
		INTERNATIONAL FIRE CODE	
	ACCESSIBILITY	2009 ICC/ANSI A117.1 - ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES	
		2010 AMERICANS WITH DISABILITIES ACT	
	ENERGY CODE	ASHRAE 90.1 2013; IECC 2015	
	MECHANICAL	2015 INTERNATIONAL MECHANICAL CODE	
	PLUMBING	2015 INTERNATIONAL PLUMBING CODE	
	ELECTRICAL	2017 NFPA 70 NATIONAL ELECTRICAL CODE	
SECTION #	**CHAPTER 1**		
107.3.4	REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE		WAYDE HOPPE
SECTION #	**CHAPTER 3**		
	USE AND OCCUPANCY CLASSIFICATION		
303.4	OCCUPANCY CLASSIFICATION	ASSEMBLY	
	GROUP CLASSIFICATION	A-3	
	USE CLASSIFICATION	PLACE OF WORSHIP	
SECTION #	**CHAPTER 5**	**REQUIRED**	**PROVIDED**
	BUILDING AREA		
	ASSUME TYPE VB CONSTRUCTION TYPE	**TABULAR ALLOWABLE AREA PER FLR**	
TABLE 506.2	BASIC TABULAR AREA FOR USE GROUP A-3 WITHOUT SPRINKLER SYSTEM (NS)	6000 SF MAXIMUM	
SECTION #	**BUILDING HEIGHT**	**REQUIRED**	**PROVIDED**
	CODE-ALLOWABLE HEIGHT		
TABLE 504.3 AND 504.4	TABULAR ALLOWABLE BUILDING HEIGHT: NON SPRINKLED	40 FT	
	TABULAR ALLOWABLE NUMBER OF STORIES	1 STORIES	2 STORIES
SECTION #	**CHAPTER 6**	**REQUIRED**	**PROVIDED**
	BUILDING CONSTRUCTION TYPE		
	CONSTRUCTION TYPE	VB	VB
TABLE 601	FIRE RESISTANCE RATINGS		
TABLE 601	STRUCTURAL FRAME	0 HOURS	0 HOURS
TABLE 601	EXTERIOR BEARING WALLS	0 HOURS	0 HOURS
TABLE 601	INTERIOR BEARING WALLS	0 HOURS	0 HOURS
TABLE 601	EXTERIOR NON-BEARING WALLS/PARTITIIONS	0 HOURS	0 HOURS
TABLE 601	INTERIOR NON-BEARING WALLS/PARTITIIONS	0 HOURS	0 HOURS
TABLE 601	FLOOR CONSTRUCTION	0 HOURS	0 HOURS
TABLE 601	ROOF CONSTRUCTION	0 HOURS	0 HOURS
TABLE 602	EXTERIOR WALL FIRE RATING	0 HOURS	0 HOURS
SECTION #	**CHAPTER 7**	**REQUIRED**	**PROVIDED**
	FIRE AND SMOKE PROTECTION FEATURES		
	FIRE-RESISTANCE RATED CONSTRUCTION		
TABLE 706.4	FIRE WALL RATING	NOT APPLICABLE	NOT APPLICABLE
TABLE 707.3.10	FIRE BARRIER RATING	NOT APPLICABLE	NOT APPLICABLE
	SHAFT ENCLOSURES	NOT APPLICABLE	NOT APPLICABLE
SECTION 708	FIRE PARTITIONS	NOT APPLICABLE	NOT APPLICABLE
	SMOKE BARRIERS	NOT APPLICABLE	NOT APPLICABLE
	SMOKE PARTITIONS	NOT APPLICABLE	NOT APPLICABLE
	DRAFTSTOPPING	NOT APPLICABLE	NOT APPLICABLE
SECTION 706.3	FIRE WALLS	PERMITTED TO BE OF COMBUSTIBLE MATERIAL	
SECTION 706.4	FIRE WALLS	PERMITTED TO BE 2HR RATED FOR TYPE VB	
SECTION 706.5	FIRE WALLS	FIRE WALL TO EXTEND 18" HORIZONTALLY AT EXT WALL	
SECTION 706.5.1	FIRE WALLS	1 HR RATING REQUIRED 4' FROM FIRE WALL	
SECTION 706.6 EXCEPTION 4	FIRE WALLS	WALL SHALL EXTEND A MIN OF 30" ABOVE BOTH ADJACENT ROOFS.	
SECTION 706.6 EXCEPTION 4	FIRE WALLS	EXTEND TO UNDERSIDE OF ROOF; NO OPENINGS WITHIN 4' OF WALL; CLASS B ROOFING; FIRE RETARDANT TREATED PLYWOOD ON 4' EITHER SIDE MIN.	
SECTION #	**CHAPTER 8**	**REQUIRED**	**PROVIDED**
	INTERIOR FINISHES		
	A-3 ASSEMBLY		
TABLE 803.11	EXIT STAIRWAYS AND RAMPS AND PASSAGEWAYS	CLASS A (0-25 FLAME SPREAD INDEX: 0-450 SMOKE DEVELOPED INDEX)	CLASS A (0-25 FLAME SPREAD INDEX: 0-450 SMOKE DEVELOPED INDEX)
TABLE 803.11	CORRIDORS AND EXIT ACCESS	CLASS A (0-25 FLAME SPREAD INDEX: 0-450 SMOKE DEVELOPED INDEX)	
TABLE 803.11	ROOMS AND ENCLOSED SPACES	CLASS C (76-200 FLAME SPREAD INDEX: .450 SMOKE DEVELOPED INDEX)	CLASS C (76-200 FLAME SPREAD INDEX: .450 SMOKE DEVELOPED INDEX)
SECTION #	**CHAPTER 9**	**REQUIRED**	**PROVIDED**
	FIRE PROTECTION SYSTEMS		
SECTION 903.2.1.2	REQUIRED AT USE GROUP A-3		
	WHERE A FIRE AREA EXCEEDS 12,000 SF		NOT PROVIDED
	WHERE A FIRE AREA HAS AN OCCUPANT LOAD GREATER THAN 300 PEOPLE		NOT PROVIDED
	WHERE THE FIRE AREA IS LOCATED ON A FLOOR OTHER THAN THE FLOOR OF DISCHARGE		NOT PROVIDED
SECTION 906.1	FIRE EXTINGUISHERS	COMPLY WITH FIRE CODE	PROVIDED
SECTION #	**MICHIGAN REHABILITATION CODE FOR EXISTING BUILDINGS**	**REQUIRED**	**PROVIDED**
SECTION #	**CHAPTER 4**	**REQUIRED**	**PROVIDED**
403	ALTERATIONS SHALL COMPLY WITH THE MBC		SEE MBC REVIEW ABOVE
410.1	WHEN NO CHANGE IN USE GROUP OR OCCUPANCY LOAD THEN NO CHANGE IS NEEDED FOR ACCESSIBILITY		NO CHANGE IN OCCUPANCY LOAD OR USE GROUP IS PROPOSED THEREFORE NO CHANGE IN ACCESSIBILITY IS REQUIRED
SECTION #	**CHAPTER 5**	**REQUIRED**	**PROVIDED**
	WORK AREA METHODS		ALTERATION LEVEL 2
SECTION #	**CHAPTER 8**	**REQUIRED**	**PROVIDED**
	ALTERATIONS LEVEL 2		
803.4	MEET THE INTERIOR FINISH REQUIREMENTS OF THE MBC		PROVIDED
805.4	WORK AREAS WITH OCCUPANT LOADS GREATER THAN 50 AND TRAVEL DISTANCE GREATER THAN 75 FEET PROVIDE TWO MEANS OF EGRESS		PROVIDED
805.8	EXIT SIGNS		PROVIDED
806.1	COMPLY WITH ACCESSIBILITY OF 410		PROVIDED

MATERIAL SPECIFICATION AND CODE ANALYSIS

INTERIOR RENOVATIONS
EVANGEL BAPTIST CHURCH
16994 TELEGRAPH RD., TAYLOR, MI 48180

STATE OF MICHIGAN
WAYDE C. HOPPE
ARCHITECT
No. 1301036190
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WAYDE C. Hoppe

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REVISIONS

PROJECT: 2209
DATE: 9.30.22
DRAWN: JPH
CHECKED: WCH

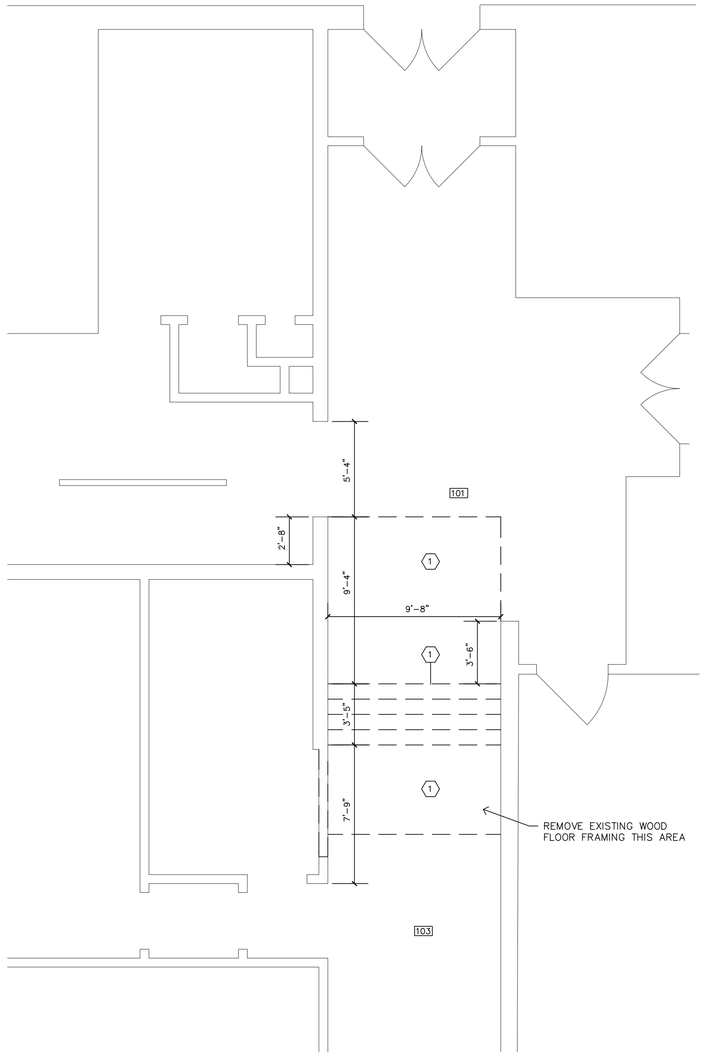
A001

DEMOLITION KEYNOTES (X)

1. REMOVE EXIST FLOOR AND STEPS
2. RELOCATE EXIST HOT WATER HEATER
3. RELOCATE EXISTING ELECTRICAL PANEL
4. RELOCATE EXISTING SLOP SINK AND MOP HOLDER
5. REMOVE EXISTING PARTITION. PROVIDE TEMPORARY SHORING
6. REMOVE AND RELOCATE EXISTING DOOR, FRAME AND HARDWARE

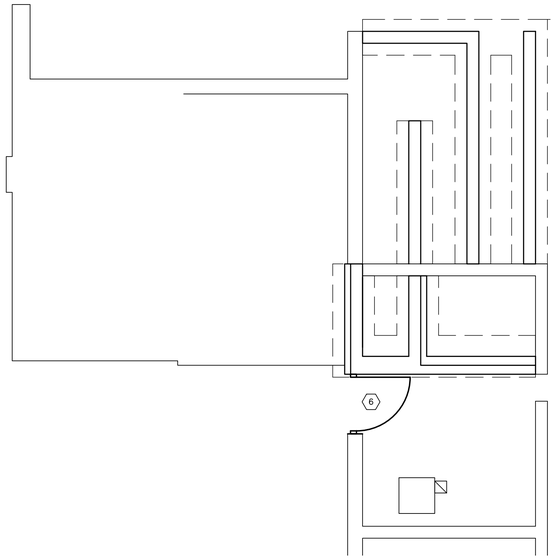
NEW CONSTRUCTION KEYNOTES (X)

1. WALL MOUNTED HANDRAIL
2. FLOOR MOUNTED HANDRAIL

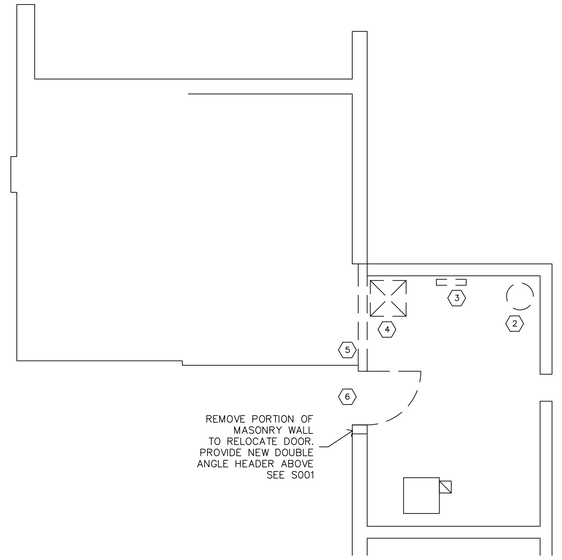


1 A101 PARTIAL FIRST FLOOR PLAN DEMOLITION
SCALE: 1/4" = 1'-0"
PROJECT NORTH

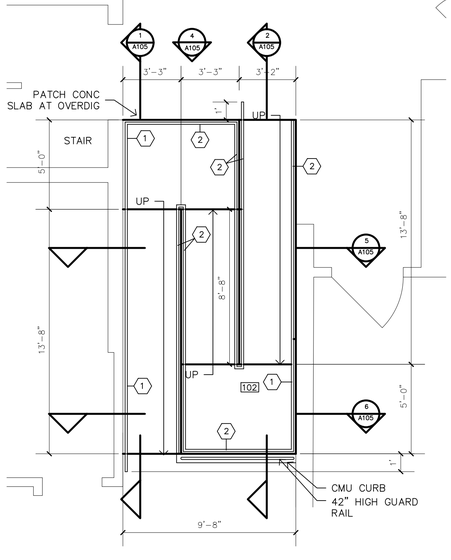
NOTE:
1. GC TO PROVIDE TEMPORARY SHORING AND SUPPORT PRIOR TO ANY DEMOLITION. TEMPORARY SHORING TO REMAIN IN PLACE UNTIL INSTALLATION OF PERMANENT SUPPORT IS IN PLACE AND APPROVED BY AHJ
2. GC TO PROVIDE DUST PARTITION AROUND AREA OF NEW CONSTRUCTION. THE ENTIRE AREA OF CONSTRUCTION IS TO BE KEPT CLEAN EVERY DAY.
3. THE BUILDING IS TO BE OCCUPIED DURING CONSTRUCTION. GC IS RESPONSIBLE FOR SAFETY MEASURES FOR THE OCCUPANTS.



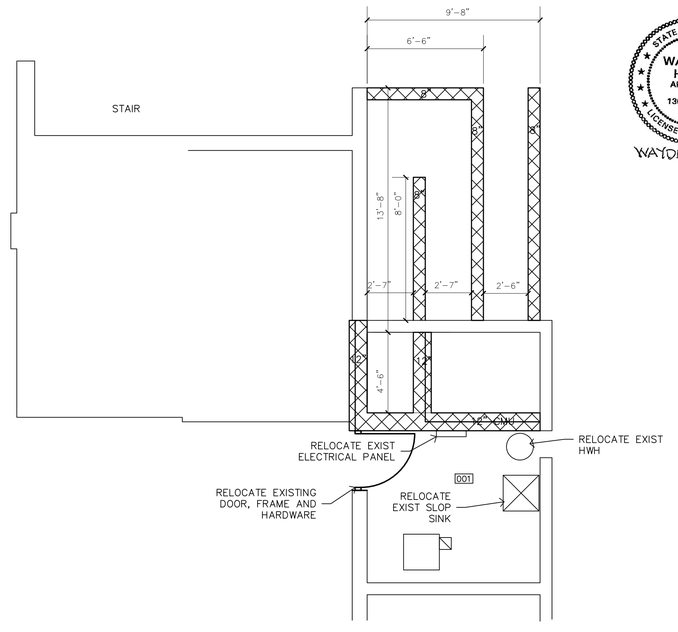
5 A101 PARTIAL BASEMENT FOUNDATION PLAN
SCALE: 1/4" = 1'-0"
PROJECT NORTH



4 A101 PARTIAL BASEMENT DEMOLITION PLAN
SCALE: 1/4" = 1'-0"
PROJECT NORTH



2 A101 PARTIAL FIRST FLOOR PLAN
SCALE: 1/4" = 1'-0"
PROJECT NORTH



3 A101 PARTIAL BASEMENT FLOOR PLAN
SCALE: 1/4" = 1'-0"
PROJECT NORTH

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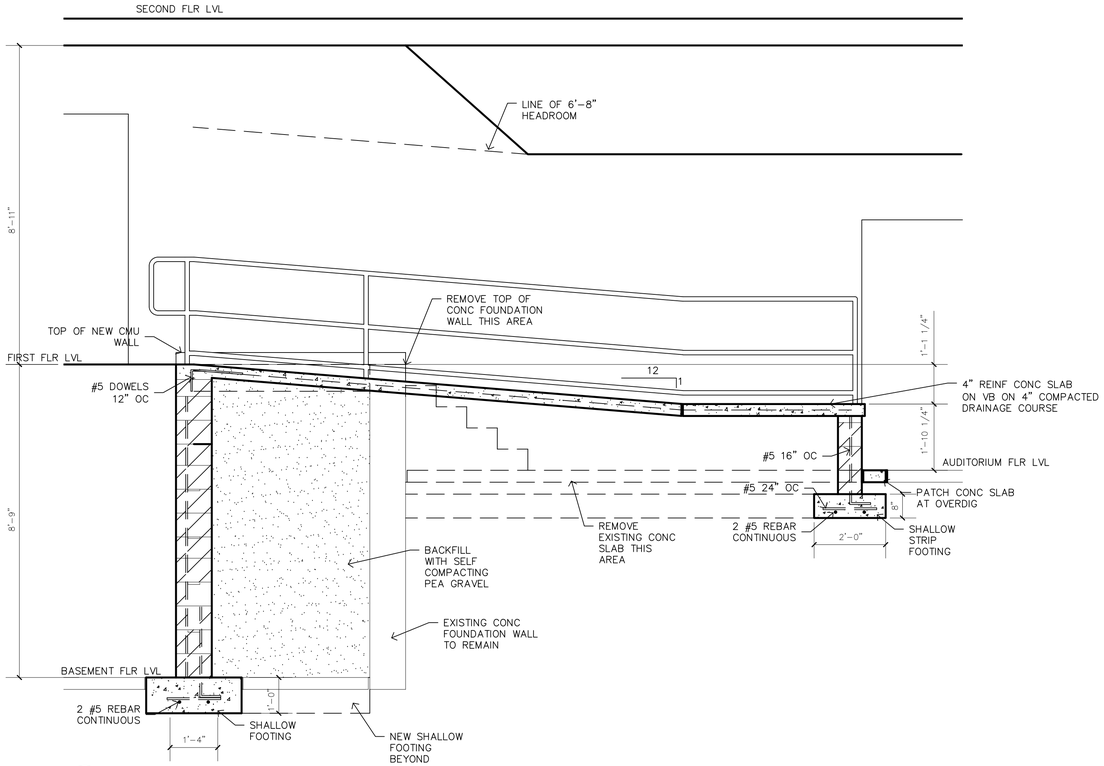
CHECKED: WCH

RAMP ADDITION
EVANGEL BAPTIST CHURCH
16994 TELEGRAPH RD., TAYLOR, MI 48180

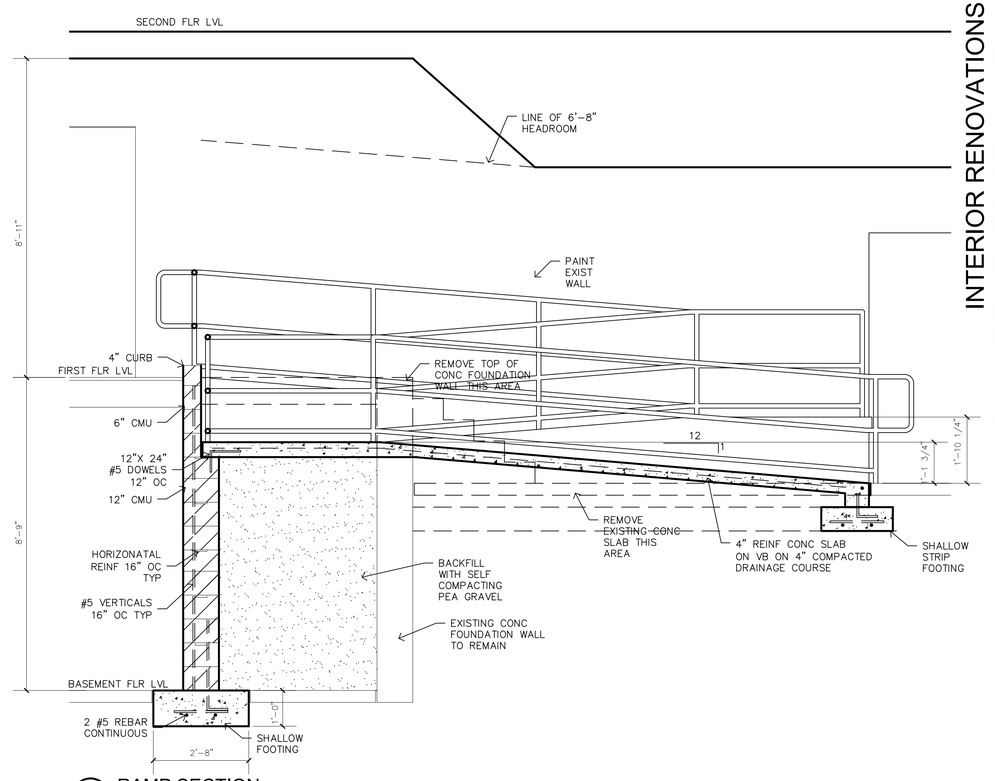
VERIFY ALL DIMENSIONS IN FIELD

DEMOLITION PLAN AND PARTIAL FLOOR PLAN

A101



1 A105 RAMP SECTION
SCALE: 1/2" = 1'-0"



2 A105 RAMP SECTION
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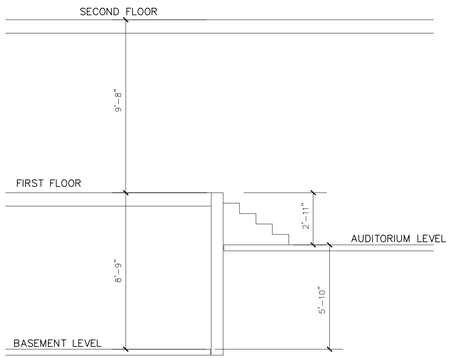
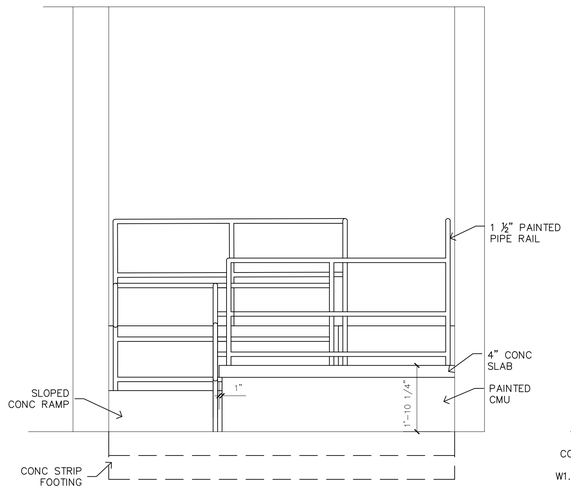
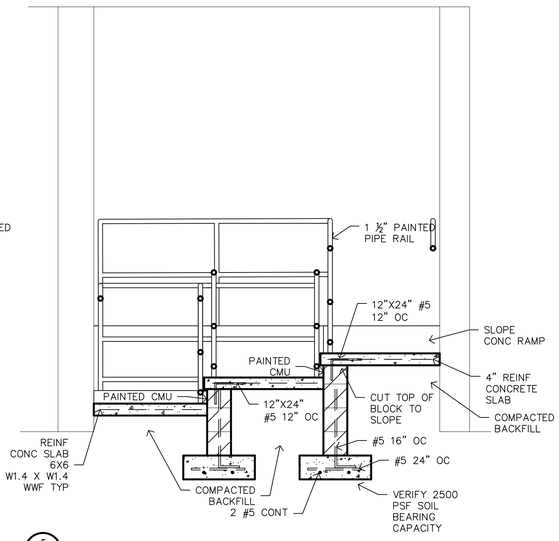


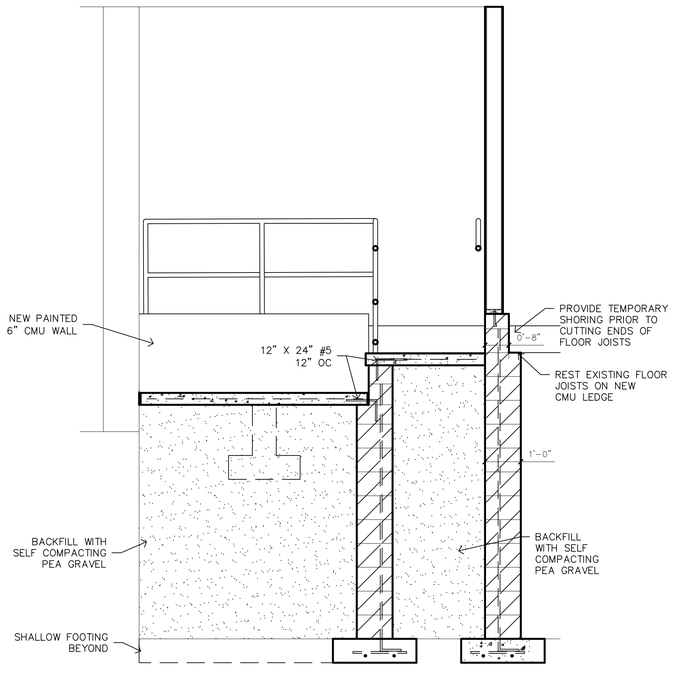
3 A105 EXIST SECTION
SCALE: 1/4" = 1'-0"



4 A105 RAMP ELEVATION
SCALE: 1/2" = 1'-0"



5 A105 RAMP SECTION
SCALE: 1/2" = 1'-0"



6 A105 RAMP SECTION
SCALE: 1/2" = 1'-0"

VERIFY ALL DIMENSIONS IN FIELD

INTERIOR RENOVATIONS
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WAYDE C. Hoppe

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REVISIONS

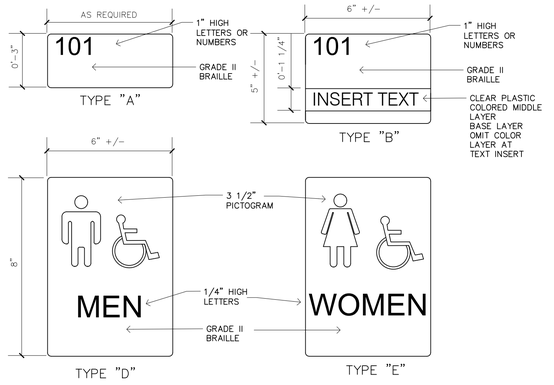
PROJECT: 2209
DATE: 9.30.22
DRAWN: JPH
CHECKED: WCH

SECTION AND DETAILS

A105

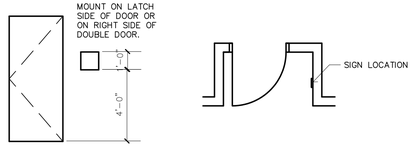
ROOM FINISH SCHEDULE

		WALLS																				CEILING					
		FLOOR							BASE					NORTH				SOUTH				EAST				WEST				MATERIALS					
		CARPET TILE	SHEET CARPET	CERAMIC TILE	WOOD		STAINED CONCRETE	UNFINISHED	VINYL	CARPET BASE	CERAMIC BASE	WOOD PAINTED	WOOD STAINED	GWB PAINTED	PAINT NEW CMU	CERAMIC TILE	PAINT EXISTING	GWB PAINTED	PAINT NEW CMU	CERAMIC TILE	PAINT EXISTING	GWB PAINTED	PAINT NEW CMU	CERAMIC TILE	PAINT EXISTING	GWB PAINTED	PAINT NEW CMU	CERAMIC TILE	PAINT EXISTING	EXISTING LATHN	2 X 2 ACT	2 X 4 VINYL FACED GYP	PAINT EXISTING	HEIGHT	
NO.	RM. NAME	1	2	3	4	5	6	7	1	2	3	4	5	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		REMARKS
101	HALL	X								X							X								X				X	X				EXIST	
102	RAMP	X								X							X					X			X				X	X				EXIST	
103	HALL		X							X							X								X				X	X				EXIST	
001	BASEMENT							X						X												X						X			EXIST	PATCH GWB AT NEW CMU WALL



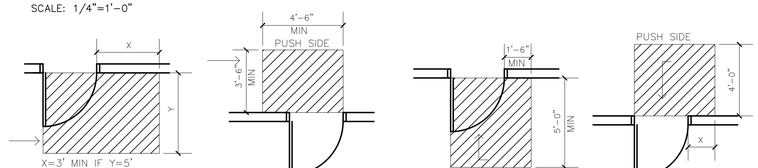
1. SIGN MATERIAL SHALL BE MAPLE AS MANUFACTURED AND SUPPLIED BY MODA: 248-306-0677.
2. LETTERS SHALL BE RAISED 1/32": DIMENSIONS SHALL BE 7" H X 9.75" W.
3. PICTOGRAMS AND LETTERS SHALL BE CONTRASTING COLOR.
4. COMPLY WITH CABO/ANSI A117.1-1998 SECTION 703 SIGNAGE.
5. RESTROOM SIGNAGE TO BE MODEL SA64 BY MODA
6. ROOM ID SIGNAGE TO MODEL SA65 BY MODA

SIGNAGE



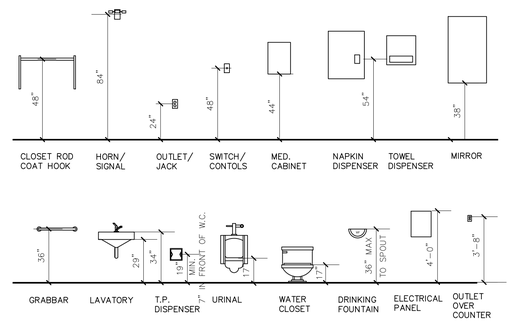
SIGN MOUNTING LOCATION

SCALE: 1/4"=1'-0"



BARRIER FREE DOOR APPROACH

SCALE: 1/4"=1'-0"



	LIVING UNIT	PUBLIC
LIGHT PANELS	60" TO TOP	48" TO TOP
SWITCHES, CONTROLS, PULLS	48" TO C.L.	48" TO C.L.
ELECTRIC OUTLETS AT FLOOR	24" TO C.L.	24" TO C.L.
ELECTRIC OULTETS AT COUNTERS	48" TO C.L.	42" TO C.L.
CLOSET ROD AND COAT HOOKS	62"-66"	54" MAX
MEDICINE CABINET	52" TO BOTTOM	44" TO BOTTOM
MIRROR	48" TO BOTTOM	38" TO BOTTOM
HORNS AND SIGNALS	84" TO C.L.	84" TO C.L.
DRINKING FOUNTAIN SPOUT	36" MAX	36" MAX.
GRAB BARS		33"-36" TO TOP
T.P. DISPENSER		18"-48" TO C.L.
		7" IN FRONT OF W.C.

DIMENSIONS FROM FINISHED FLOOR UNLESS NOTED OTHERWISE

BARRIER FREE FIXTURE HEIGHTS

VERIFY ALL DIMENSIONS IN FIELD

INTERIOR RENOVATIONS
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REVISIONS

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WAYDE C. HOPPE

PROJECT: 2209
DATE: 9.30.22
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CHECKED: WCH

SCHEDULES

A501

LEGEND

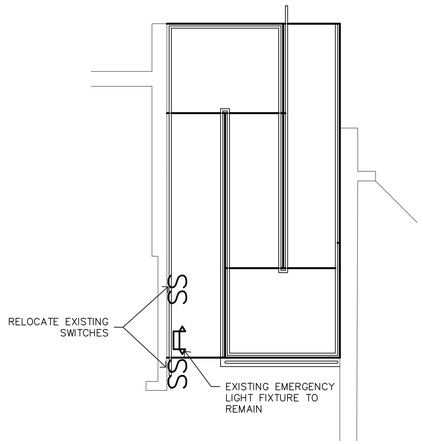
- S_D SWITCH ON RHEOSTAT
- S_3 THREE WAY SWITCH
- S_P SWITCH WITH PILOT
- S SWITCH
- SPECIAL OUTLET
- DUPLEX OUTLET
- QUAD OUTLET
- WP WEATHERPROOF OUTLET
- GROUND FAULT INTERUPTER
- TELEPHONE/ COMPUTER
- SMOKE DETECTOR
- TV TELEVISION/ CABLE
- CEILING MOUNTED LIGHT FIXTURE
- R CEILING MOUNTED LIGHT FIXTURE RECESSED
- WALL MOUNTED LIGHT FIXTURE
- CEILING FAN/ LIGHT
- SCONCE
- MOTOR, ONE PHASE
- GROUND MNTD EXT. LIGHTING
- 2x4 LAY IN LIGHT FIXTURE
- 1 X 4 LIGHT FIXTURE
- PENDANT MOUNTED OVERSIZED FIXTURE
- EXIT SIGN
- EXIT SIGN/ EMERGENCY LIGHT
- PS FIRE ALARM PULL STATION
- HORN/ STROBE
- COMPUTER JACK
- RATE OF RISE HEAT DETECTOR
- DISCONNECT SWITCH
- DISCONNECT SWITCH WITH FUSE
- AUDIO JUNCTION BOX- PRE-WIRE PER DIRECTION OF OWNER

LEGEND

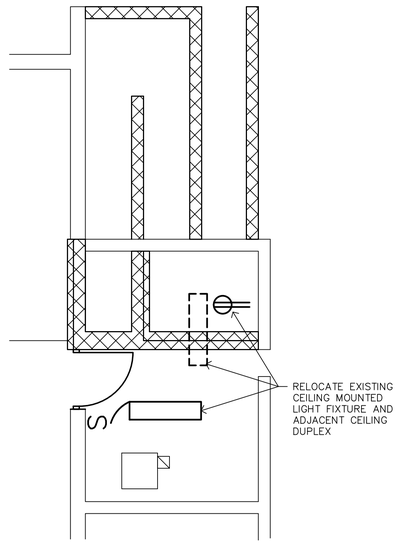
- GATE VALVE
- GLOBE VALVE
- BALL VALVE
- CHECK VALVE
- 2-WAY CONTROL VALVE
- 3-WAY CONTROL VALVE
- LUBRICATED PLUG VALVE
- MS BAL. BALL VALVE W/ MEMORY STOP
- CIRCUIT SETTER
- PRESSURE REDUCING VALVE
- T PRESSURE TEMP. TEST PORT
- PRESSURE GAUGE
- THERMOMETER
- EXPANSION JOINT W/ GUIDES
- AIR VENT
- Y-STRAINER
- PIPE FLEXIBLE CONNECTOR
- CONN. TO EXIST.
- DUCT FLEXIBLE CONNECTOR
- EXIST. FIRE DAMPER
- NEW FIRE DAMPER
- EXIST. SMOKE DAMPER
- NEW SMOKE DAMPER
- EXIST. COMB. FIRE SMOKE DMPR
- NEW COMB. FIRE/SMOKE DMPR
- SUPPLY DIFFUSER
- RETURN GRILLE
- EXHAUST GRILLE

ELECTRICAL NOTES

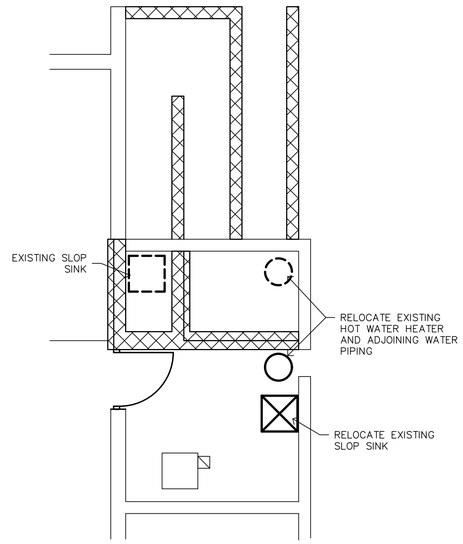
1. ALL ELECTRICAL WORK SHALL COMPLY WITH THE N.E.C., COUNTY AND LOCAL CODES, ORDINANCES, AND REGULATIONS INCLUDING MIOSHA.
2. COORDINATE ALL UNDERGROUND WORK WITH NEW AND EXISTING UNDERGROUND UTILITES BEFORE INSTALLATIONS.
3. THE SECONDARY UNDERGROUND CONDUIT AND WIRE SHALL MEET THE REQUIREMENTS OF THE ELECTRIC UTILITY COMPANY.
4. ALL EMPTY CONDUITS SHALL BE PROVIDED WITH A 1/4" DIA. POLYPROPYLENE FISH LINE.
5. ALL UNDERGROUND CONDUITS SHALL BE INSTALLED 24" MINIMUM BELOW GRADE (UNLESS OTHERWISE SHOWN ON PLAN).
6. ALL EXPOSED CONDUIT SHALL BE RIGID GALVANIZED STEEL, INSTALLED WITH WATERTIGHT CONDUIT FITTINGS. EXPANSION FITTINGS SHALL BE PROVIDED AT ALL TRANSITIONS FROM UNDERGROUND TO EXPOSED CONDUIT.
7.
8. ALL THREADED ELECTRICAL EQUIPMENT (CONDUIT, FITTINGS, BOLTS, SCREWS, ETC.) INSTALLED AT EXTERIOR SHALL BE COATED WITH ANTI-SEIZE COMPOUND PRIOR TO INSTALLATION.
9. ALL WEATHERPROOF (W.P.) DUPLEX RECEPTACLES SHALL BE INSTALLED SUCH THAT COVER DOORS OPEN UPWARD.
10. HAND DIG WHERE REQUIRED TO LOCATE EXISTING UTILITES PRIOR TO INSTALLATION OF NEW UNDERGROUND CONDUITS FOR POWER AND LIGHTING.
11. PROVIDE A GREEN GROUND CONDUCTOR IN ALL SYSTEM CONDUITS, EXCEPT INSTRUMENT SIGNAL AND ALARM CONDUITS, INCLUDING BRANCH CIRCUIT CONDUITS FOR LIGHTING AND RECEPTACLES. GROUND CONDUCTOR SIZING SHALL BE PER N.E.C. TABLE 250.122 (MINIMUM) WHERE NOT SIZED ON THE DRAWINGS.
12. WIRE SIZE SHALL BE #12 (MINIMUM) AND CONDUIT SIZE SHALL BE 3/4" (MINIMUM) FOR ALL POWER AND LIGHTING CIRCUITS WHERE NOT SIZED ON THE DRAWINGS.
13. INSTALL SEPARATE GROUNDING CONDUCTOR TO ALL ISOLATED GROUND RECEPTACLES.
14. LOCATE JUNCTION BOXES PER MANUFACTURER'S REQUIREMENTS.
15.
16. VERIFY LOCATION OF ALL POWER, PHONE, AND DATA JUNCTION BOXES WITH THE OWNER.
17.
18.
19.
20.
21. ELECTRICAL CONTRACTOR TO COMPLY WITH NEC SECTION 110-C(A) AND (B) AND ALL TERMINATION CODE REQUIREMENTS.
22. EC TO SIZE ALL WIRING, CIRCUITING, JB'S, BREAKERS, SUB PANELS, ETC., TO PROVIDE A COMPLETE SYSTEM.
23. ELECTRICAL DRAWINGS ARE SCHEMATIC ONLY. EC IS RESPONSIBLE TO DETERMINE THE FINAL CONDUIT AND WIRING LAYOUT.



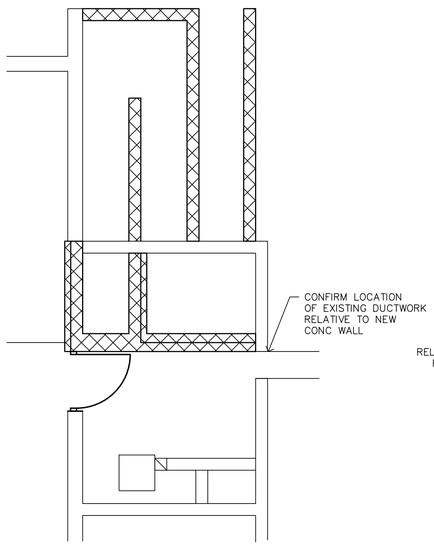
5 MEP101 FIRST FLOOR LIGHTING PLAN
SCALE: 1/4" = 1'-0"
PROJECT NORTH



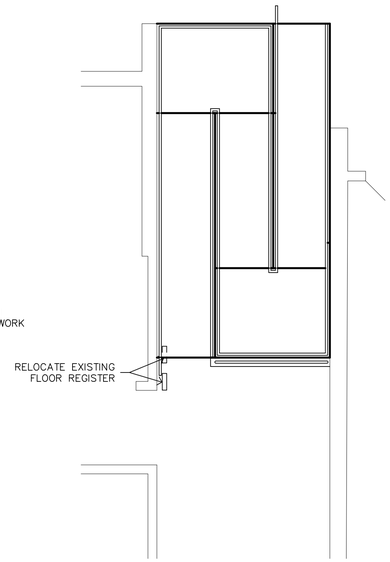
6 MEP101 BASEMENT LIGHTING PLAN
SCALE: 1/4" = 1'-0"
PROJECT NORTH



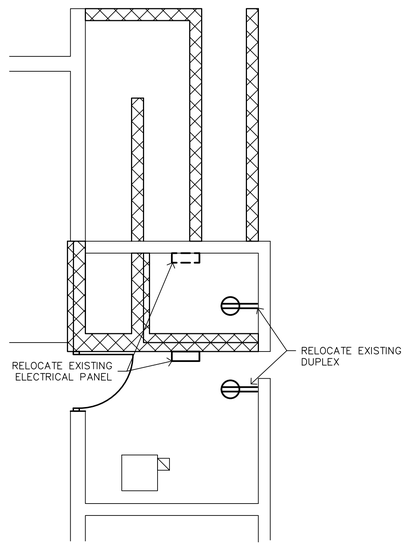
7 MEP101 BASEMENT PLUMBING SUPPLY PLAN
SCALE: 1/4" = 1'-0"
PROJECT NORTH



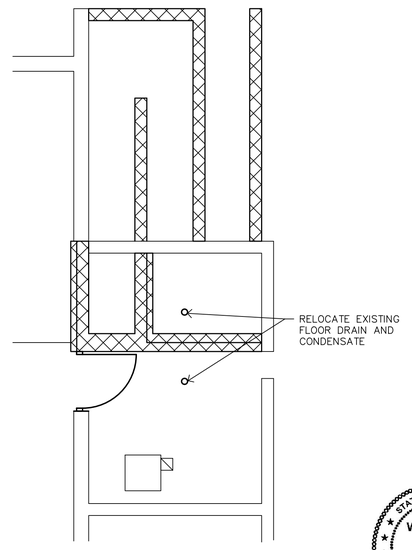
1 MEP101 BASEMENT HVAC PLAN
SCALE: 1/4" = 1'-0"
PROJECT NORTH



2 MEP101 FIRST FLOOR HVAC PLAN
SCALE: 1/4" = 1'-0"
PROJECT NORTH



3 MEP101 BASEMENT POWER PLAN
SCALE: 1/4" = 1'-0"
PROJECT NORTH



4 MEP101 BASEMENT SANITARY PLAN
SCALE: 1/4" = 1'-0"
PROJECT NORTH

STATE OF MICHIGAN
WAYDE C. HOPPE
ARCHITECT
No. 1301036190
LICENSED ARCHITECT
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REVISIONS

PROJECT: 2209
DATE: 9.30.22
DRAWN: JPH
CHECKED: WCH

INTERIOR RENOVATIONS
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HOPPE DESIGN, LLC
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LIGHTING AND POWER PLAN

MEP101