



SELECT STRUCTURAL DEMOLITION

- Demolition and removal of selected portions of building or structure, indicated on drawings.
- Pre-demolition Photographs: Show existing conditions of adjoining construction and site improvements, including finish surfaces that might be misconstrued as damage caused by selective demolition operations. Submit for record before Work begins.
- Notify Engineer of discrepancies between existing conditions and Drawings before proceeding with selective demolition.
- Utility Service: Maintain existing utilities indicated to remain in service and protect them against damage during selective demolition operations. Disconnect and cap utilities to be removed.
- Survey existing conditions and correlate with requirements indicated to determine extent of selective demolition required.
- Perform surveys as the Work progresses to detect hazards resulting from selective demolition activities.
- Provide temporary barricades and other protection required to prevent injury to people and damage to adjacent buildings and facilities to remain.
 - Provide protection to ensure safe passage of people around selective demolition area.
 - Provide temporary weather protection, during interval between selective demolition of existing construction on exterior surfaces and new construction, to prevent water leakage and damage to structure and interior areas.
 - Protect walls, ceilings, floors, and other existing finish work that are to remain or that are exposed during selective demolition operations.
- Provide and maintain shoring, bracing, and structural supports as required to preserve stability and prevent movement, settlement, or collapse of construction and finishes to remain, and to prevent unexpected or uncontrolled movement or collapse of construction being demolished.
 - Strengthen or add new supports when required during progress of selective demolition.
- Demolish and remove existing construction as indicated; or if not indicated, only to the extent required by new construction. Use methods required to complete the Work within limitations of governing regulations and as follows:
 - Neatly cut openings and holes plumb, square, and true to dimensions required. Use cutting methods least likely to damage construction to remain or adjoining construction.
 - Temporarily cover openings to remain.
 - Do not use cutting torches until work area is cleared of flammable materials. At concealed spaces, such as duct and pipe interiors, verify condition and contents of hidden space before starting flame-cutting operations. Maintain portable fire-suppression devices during flame-cutting operations.
 - Maintain adequate ventilation when using cutting torches.
 - Remove decayed, vermin-infested, or otherwise dangerous or unsuitable materials and promptly dispose of off-site.
 - Remove structural framing members and lower to ground by method suitable to avoid free fall and to prevent ground impact or dust generation.
 - Locate selective demolition equipment and remove debris and materials so as not to impose excessive loads on supporting walls, floors, or framing.
 - Dispose of demolished items and materials promptly.
- Protect construction indicated to remain against damage and soiling during selective demolition.
- Remove demolished materials from Project site and legally dispose of them.
 - Do not allow demolished materials to accumulate on-site.
 - Remove and transport debris in a manner that will prevent spillage on adjacent surfaces and areas.
 - Remove debris from elevated portions of building by chute, hoist, or other device that will convey debris to grade level in a controlled descent.
- Do not burn demolished materials.
- Clean adjacent structures and improvements of dust, dirt, and debris caused by selective demolition operations. Return adjacent areas to condition existing before selective demolition operations began.

GENERAL NOTES

- Governing Design Code: 2015 Michigan Building Code with local jurisdiction amendments (hereafter referred to as "CODE")
- All construction shall be in accordance with the following:
 - CODE
 - Drawings and Specifications
- The structural drawing notes are intended to work together and be complementary with the project specifications. Consult the specifications for additional requirements in each section. Information provided on structural drawings shall take precedence over the specifications. Information shown on specific details shall take precedence over typical details and structural notes.
- Typical details and general notes shall apply, UNO.
- The structural drawings shall be used in conjunction with the structural drawings. See architectural drawings for information not shown, including but not limited to the following:
 - Demolition of interior partition and other non-structural items.
- See the mechanical, electrical and plumbing drawings for information not shown, including but not limited to:
 - Demolition of mechanical and electrical system and parts.
- Drawing scales noted on structural drawings are for reference only. Do NOT scale drawings. The contractor shall verify dimensions not provided with the architect prior to proceeding with work.

EXISTING CONSTRUCTION

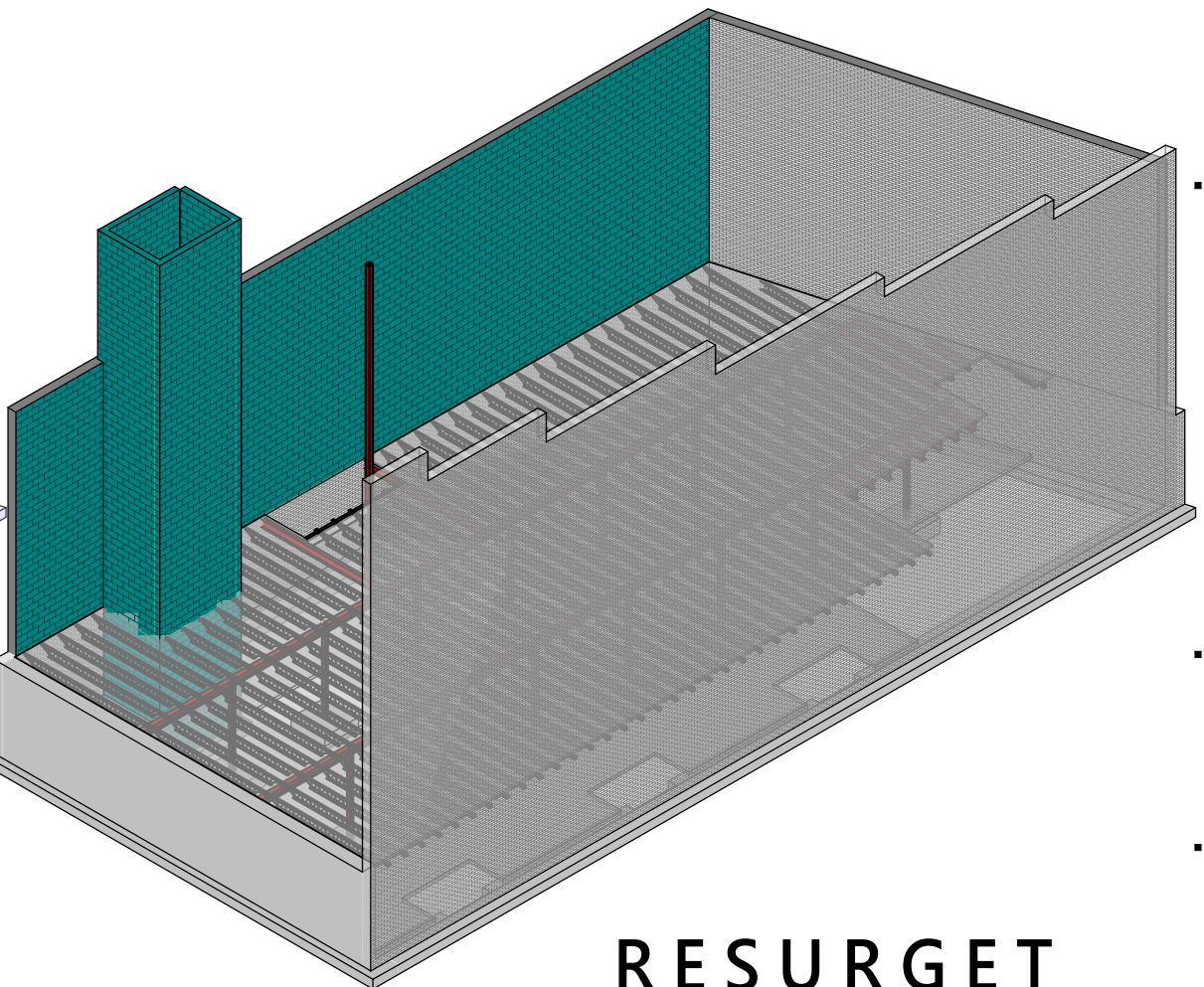
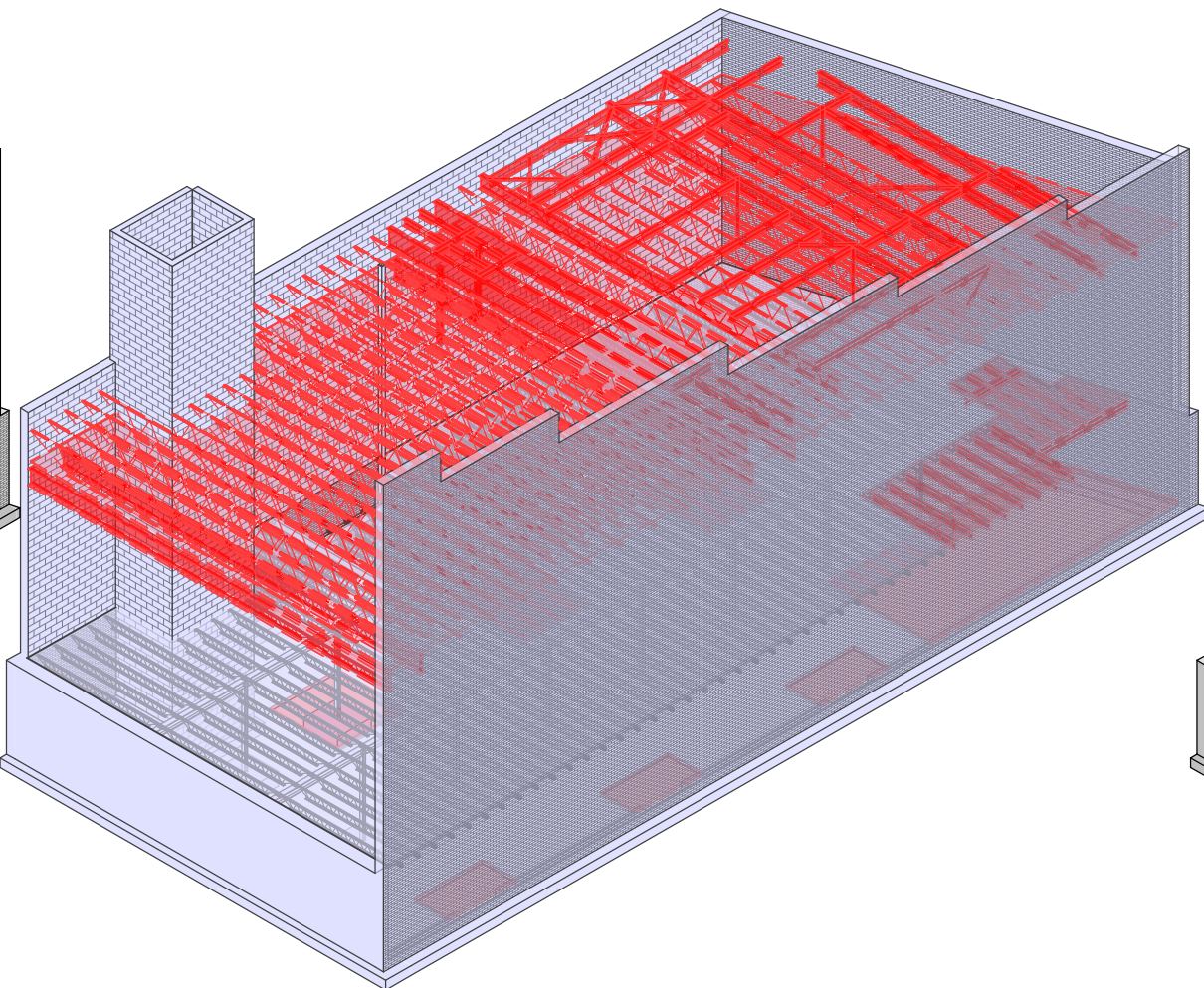
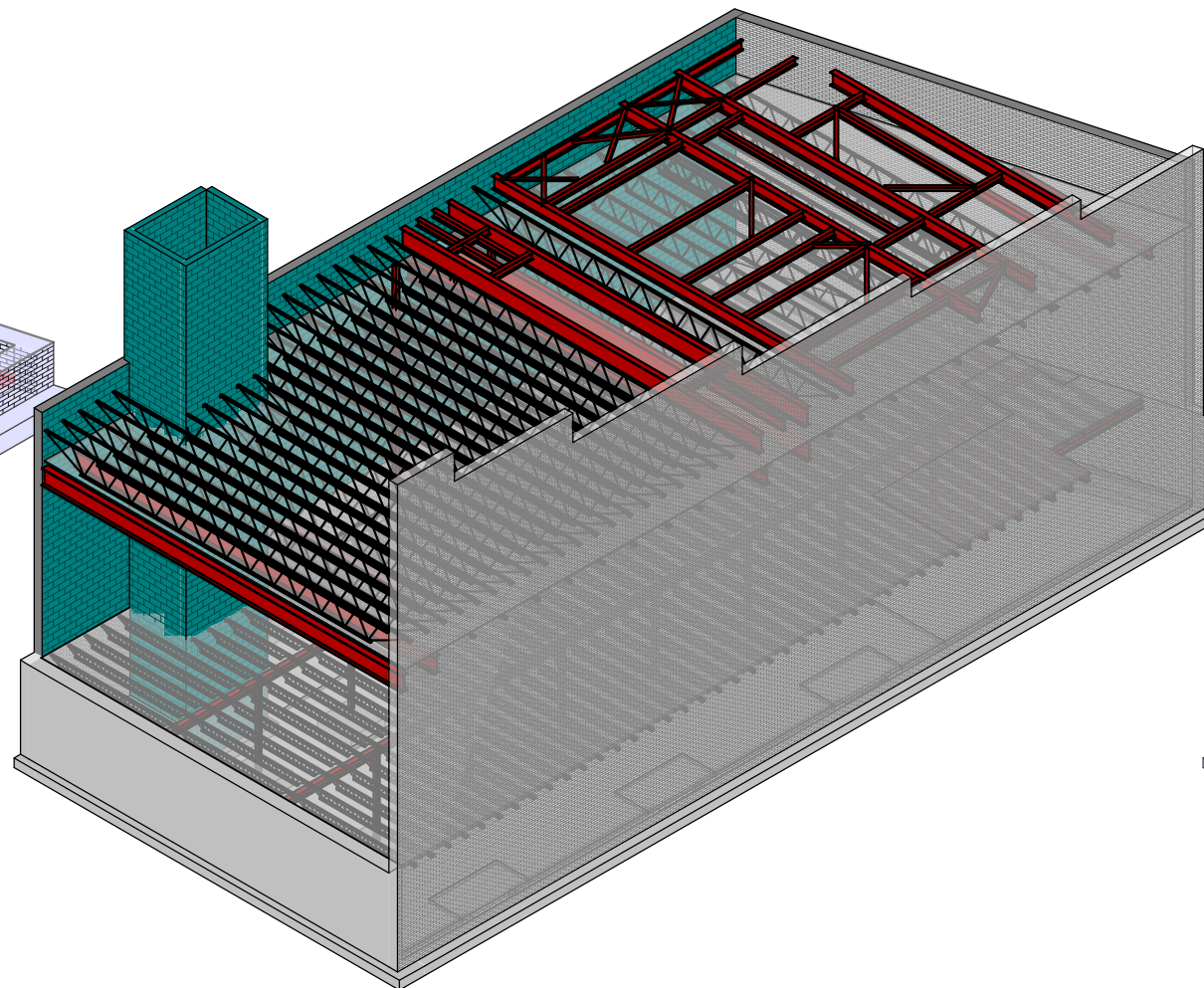
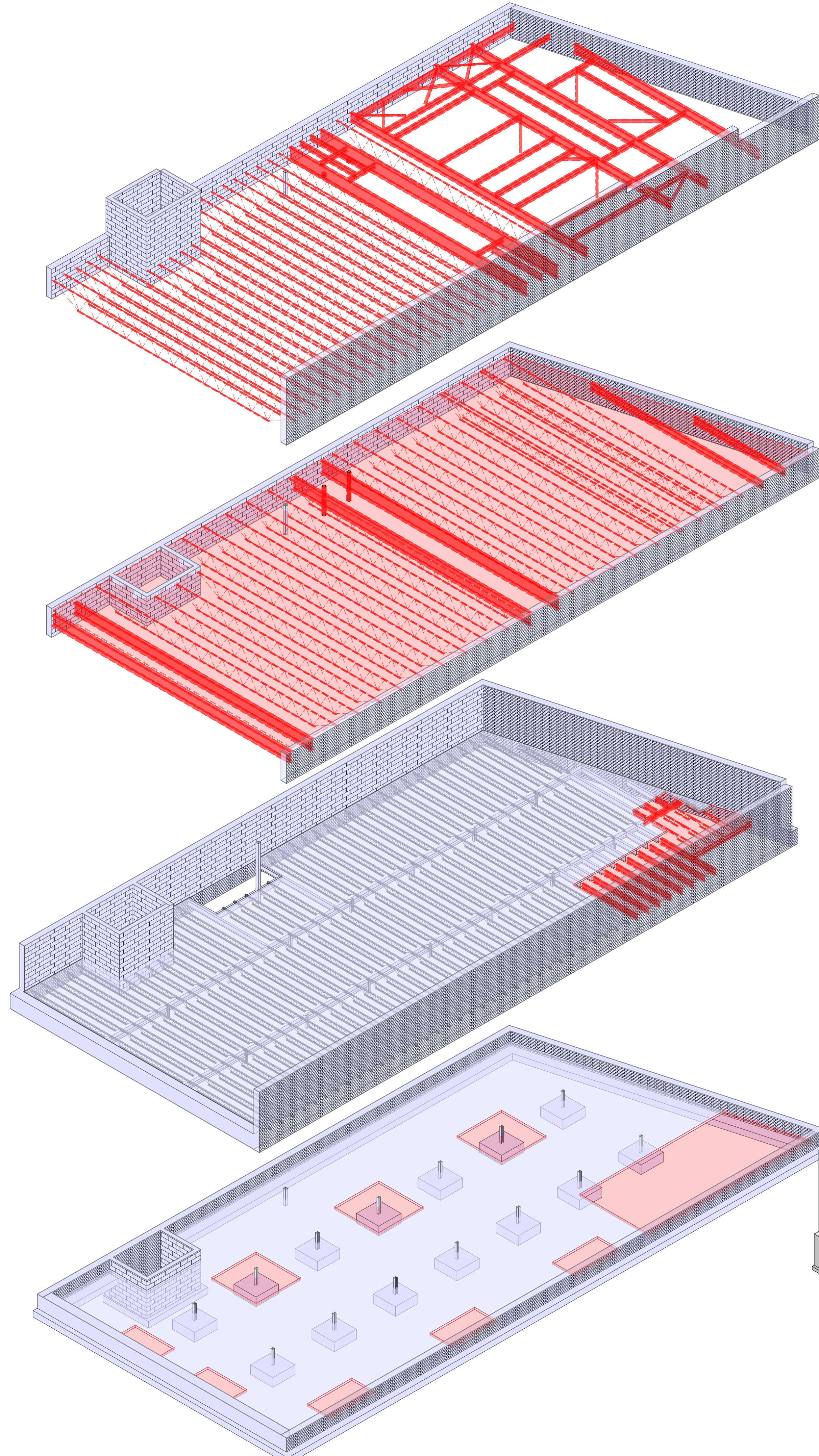
- Before submitting a proposal for work, and/or preparing shop drawings for this work each Bidder, Contractor and Sub-Contractor shall visit the site and become fully acquainted with the existing conditions, temporary construction required, type of equipment required to perform the work.
- Field verify all existing dimensions, conditions, members sizes and elevations with the information provided on the drawings. Information provided on drawings is based on limited field observations and available existing drawings which may not reflect actual conditions. Discrepancies to be noted and immediately brought to the attention of the Structural Engineer.
- Provide temporary shoring and bracing as required before, during and after construction as required until all materials have reached the required strength and stability.
- Existing construction not undergoing alteration is to remain undisturbed. Where such construction is disturbed as a result of the operations of this contract, Contractor shall repair or replace as required and to the satisfaction of the Architect/Structural Engineer and Owner's Representative.
- Verify the existence, location and elevation of existing utilities, sewers, drains, etc. in demolition areas and adjacent to new work before proceeding with the work. All discrepancies shall be documented and reported, do not proceed with work until discrepancies have been resolved.
- Provide fire safety precautions during field cutting and welding operations, meeting the Owner's requirements.
- Provide temporary protection of existing equipment during execution of work, satisfying the Owner's requirements.
- Provide temporary protection to prevent damage from the weather and vandalism.
- Coordinate work with the Owner's personnel to avoid any interference in their operations.
- Refer to "SHORING AND BRACING" notes for additional requirements.

SHORING AND BRACING

- Contractor shall provide temporary shoring and bracing of existing construction, new construction and underground utilities as follows:
 - Where shown or noted on the Drawings.
 - Where existing construction is to be altered or disturbed until permanent support is in place.
 - Where existing construction is not undergoing alteration and is to remain undisturbed but is disturbed as a result of the work of this contract.
 - As required for safe erection, installation of new construction, equipment, etc.
- Shoring and bracing shown on the Drawings is conceptual. Contractor shall be responsible for verifying existing conditions, shoring and bracing calculations, methods of installation, transfer of loads through to final load support, and work sequence phasing with new construction.
- Shoring and bracing shall be performed by a Contractor with minimum 5 years demonstrated experience in similar size and scope of shoring and bracing projects.
- Shoring and bracing shall be designed by a Professional Engineer registered in the State of the Project with minimum 5 years demonstrated experience in similar size and scope of shoring and bracing projects. Design loads and methods shall conform to applicable codes. Soil and material strengths shall be verified by tests, unless conservative estimates that do not affect deflections and deformations are approved by the Architect/Structural Engineer.
- Contractor shall submit drawings and calculations sealed and signed by the Contractor's Professional Engineer showing complete design including temporary conditions, final conditions and sequence of work.
- Before starting work, Contractor shall perform condition survey of the existing building structure, exterior facade and interior finishes, including photographic documentation and submit survey to the Owner for record.
- During the shoring and bracing operations, Contractor shall:
 - Keep the existing and new construction in a safe condition.
 - Monitor existing and new construction to detect any signs of distress or deformation.
 - Take immediate steps to prevent distress, deformation or damage.
- Contractor shall continuously monitor the shoring and bracing system. Contractor shall review and ascertain that all field connections are completed according to the Contractor's design and issue approval for inspection of the work by the Testing Agency.
- After completion of shoring and bracing and completion of work requiring shoring and bracing, Contractor shall repair any damage to the existing and new construction, without any cost to the Owner, and to the satisfaction of the Owner and Architect/Structural Engineer.

DESIGN CRITERIA		
Design in accordance with CODE		CODE REFERENCE
Risk Category	II	IBC Table 1604.5 ASCE Table 1.5-1
FLOOR LIVE LOADS		
EXISTING	100 PSF	ASCE Table 4-1
ROOF	25 PSF	ASCE Table 4-1
SNOW LOADS		
Ground Snow Load	Pg = 25 PSF	ASCE Figure 7-1
Flat Roof Snow...	Pf = 25 PSF (minimum)	ASCE Section 7.3
Exposure Factor	Ce = 1.0	ASCE Table 7-2
Importance Factor	I = 1.0	ASCE Table 1.5-2
Thermal Factor	Ct = 1.0	ASCE Table 7-3
Snow loads adjacent to vertical projections, on lower roofs adjacent to high roofs, or sloped roofs are increased for the effects of drifting.		
WIND LOADS		
Ultimate Design...	V(ULTIMATE) = 115 MPH	ASCE Figure...
Nominal Design Wind Speed	V(SERVICE) = 89 MPH	IBC Section 1609.3.1
Exposure Category	B	ASCE Section 26.7.3
Internal Pressure...	± 0.18 (Enclosed)	ASCE Section...
SEISMIC LOADS		
Seismic Importance Factor	Ie = 1.0	ASCE Table 1.5-2
Short Period Spectral Response Acceleration	SS = 0.102 g	ASCE Section 11.4.1
1.0 sec. Period Spectral Response Acceleration	S1 = 0.045 g	ASCE Section 11.4.1
Site Class	D	ASCE Section 11.4.2
Design Short Spectral Response Acceleration	SDS = 0.109 g	ASCE Section 11.4.4
Design Short Period Spectral Respons...	SD1 = 0.073 g	ASCE Section 11.4.4
Seismic Design Category	B	ASCE Section 11.6
Seismic Force Resisting System	Ordinary Reinforced Masonry Shear Walls	ASCE Table 12.2-1
Seismic Response Coefficient	CS = 0.055	ASCE Section 12.8.1.1
Response Modification Factor	R = 2.0	ASCE Table 12.2-1
Analysis Procedure	Equivalent Lateral Force	ASCE Section 12.8
Building design displacements	Seismic Inelastic Story Drift (Delta m) = 2.0%	
FOUNDATION DESIGN		
Lateral Equivalent Earth Pressure	40 PCF (Walls Unbraced at Top) 55 PCF (Walls Braced at Top)	
Allowable Soil Bearing Capacity	4,000 PSF TO BE FIELD VERIFIED	
Lateral earth pressure is based upon drained soil. Refer to drawings for foundation drainage.		
SUPERIMPOSED DEAD LOAD		
Typical Floors and Roof	5 PSF (MEP)	

DEMO DRAWING LIST	
SHEET #	SHEET TITLE
SD-001	DEMO COVER SHEET NOTES
SD-100	LOWER LEVEL AND LEVEL 1 DEMO PLANS
SD-101	ROOF FRAMING DEMO PLANS



EXISTING STRUCTURE

STRUCTURE TO BE
DEMOLISHED IN RED

STRUCTURE TO REMAIN