SECTION 00 9113 – ADDENDUM No. 1

New York Presbyterian Iona School of Health Sciences
Iona College
Bronxville, NY

S/L/A/M Project No. 20287.10

This Addendum dated February 11, 2022 forms a part of the Contract Documents and modifies the original Bidding Documents dated January 27, 2022. Acknowledge receipt of this Addendum in the space provided on the Bid Form. Failure to do so may subject the Bidder to disqualification.

This Addendum is comprised of Page Nos. 1 of 2 through 2 of 2, and the following attachments:

1. New Specification Sections, ISSUED February 11, 2022:
   a. Section 00 0110 TABLE OF CONTENTS
   b. Section 05 1200 STRUCTURAL STEEL
   c. Section 05 3100 STEEL DECKING
2. New Drawings, ISSUED February 11, 2022:
   a. L101 SITE DEMOLITION AND PREPARATION
   b. S001 GENERAL NOTES, ABBREVIATIONS AND TYPICAL DETAILS
   c. S101 FOUNDATION & FIRST FLOOR FRAMING PLAN
   d. S301 SECOND FLOOR & ROOF FRAMING PLAN
   e. S410 FRAMING DETAILS
3. Previously Issued Drawings, dated January 27, 2022, REVISED on February 11, 2022:
   a. C-1 COVER SHEET
   b. AD101 BASEMENT/ LOWER LEVEL AND FIRST FLOOR DEMOLITION PLANS
   c. AD102 SECOND FLOOR DEMOLITION PLAN

1.1 PROJECT MANUAL

A. **ADD** the following **NEW** Documents/ Sections **ISSUED** on February 11, 2022:
   1. Section 00 0110 TABLE OF CONTENTS
   2. Section 05 1200 STRUCTURAL STEEL
   3. Section 05 3100 STEEL DECKING

1.2 DRAWINGS

A. **ADD** the following **NEW** Drawings **ISSUED** on February 11, 2022:
   1. L101 SITE DEMOLITION AND PREPARATION
   2. S001 GENERAL NOTES, ABBREVIATIONS AND TYPICAL DETAILS
   3. S101 FOUNDATION & FIRST FLOOR FRAMING PLAN
   4. S301 SECOND FLOOR & ROOF FRAMING PLAN

5. S410 FRAMING DETAILS

B. **DELETE** the following Drawings ISSUED for Bid on January 27, 2022:

1. C-1 COVER SHEET
2. AD101 BASEMENT/ LOWER LEVEL AND FIRST FLOOR DEMOLITION PLANS
3. AD102 SECOND FLOOR DEMOLITION PLAN

C. **ADD** the following Drawings **REVISED** for Addendum No. 1 on February 11, 2022:

1. C-1 COVER SHEET
2. AD101 BASEMENT/ LOWER LEVEL AND FIRST FLOOR DEMOLITION PLANS
3. AD102 SECOND FLOOR DEMOLITION PLAN

END OF DOCUMENT 00 9113 - ADDENDUM No. 1

SECTION 00 0110 - TABLE OF CONTENTS

SPECIFICATIONS

DIVISION 01 -- GENERAL REQUIREMENTS

DIVISION 02 -- EXISTING CONDITIONS

END OF SECTION

SECTION 05 1200 - STRUCTURAL STEEL FRAMING

PART 1 GENERAL

1.1 SECTION INCLUDES

A. Structural steel framing members.

B. Grouting under base plates.

1.2 RELATED REQUIREMENTS

A. Section 05 3100 - Steel Decking: Support framing for small openings in deck.

1.3 REFERENCE STANDARDS

A. AISC (MAN) - Steel Construction Manual 2017.

B. AISC 303 - Code of Standard Practice for Steel Buildings and Bridges; 2010.

C. AISC 360 - Specification for Structural Steel Buildings 2016 (Revised 2021).

D. AISC S303 - Code of Standard Practice for Steel Buildings and Bridges 2016.

E. ASTM A36/A36M - Standard Specification for Carbon Structural Steel 2019.

F. ASTM A53/A53M - Standard Specification for Pipe, Steel, Black and Hot-Dipped, Zinc-Coated, Welded and Seamless 2020.

G. ASTM A500/A500M - Standard Specification for Cold-Formed Welded and Seamless Carbon Steel Structural Tubing in Rounds and Shapes 2021a.

H. ASTM A563 - Standard Specification for Carbon and Alloy Steel Nuts 2021a.

I. ASTM A563M - Standard Specification for Carbon and Alloy Steel Nuts (Metric) 2021a.

J. ASTM A780/A780M - Standard Practice for Repair of Damaged and Uncoated Areas of Hot-Dip Galvanized Coatings 2020.

K. ASTM A992/A992M - Standard Specification for Structural Steel Shapes 2020.

L. ASTM F436/F436M - Standard Specification for Hardened Steel Washers Inch and Metric Dimensions 2019.

M. ASTM F3125/F3125M - Standard Specification for High Strength Structural Bolts and Assemblies, Steel and Alloy Steel, Heat Treated, Inch Dimensions 120 ksi and 150 ksi Minimum Tensile Strength, and Metric Dimensions 830 MPa and 1040 MPa Minimum Tensile Strength 2021.

N. AWS A2.4 - Standard Symbols for Welding, Brazing, and Nondestructive Examination 2020.

O. AWS D1.1/D1.1M - Structural Welding Code - Steel 2020, with Errata (2021).

P. IAS AC172 - Accreditation Criteria for Fabricator Inspection Programs for Structural Steel AC172 2019.

Q. RCSC (HSBOLT) - Specification for Structural Joints Using High-Strength Bolts; Research Council on Structural Connections 2014, with Errata (2015).

R. SSPC-SP 3 - Power Tool Cleaning 2018.

1.4 ADMINISTRATIVE REQUIREMENTS

A. Pre-Installation Meeting: Meet at project site prior to beginning of installation to review requirements. Require attendance by representatives of the following:
   1. Contractor's superintendent.
   2. Independent testing agency.
   3. Structural steel erector.
   4. Steel subcontractor
   5. Special Inspector.
   6. Structural Engineer of Record.
   7. Other entities affected by the work of this section.

B. Review special inspection and testing and inspecting agency procedures for field quality control, temporary bracing of structure, shop drawing submittals, AESS requirements.

1.5 SUBMITTALS

A. See Section 01 3000 - Administrative Requirements, for submittal procedures.

B. Shop Drawings:
   1. Indicate profiles, sizes, spacing, locations of structural members, openings, attachments, and fasteners.
   2. Connections not detailed.
   3. Indicate cambers and loads.
   4. Indicate welded connections with AWS A2.4 welding symbols. Indicate net weld lengths.
   5. Grid locations of the individual pieces shall be provided on the detail drawings.
   6. Resubmitted drawings shall have all revisions clouded or clearly identified on the drawings.
   7. Reproduction of any portion of the structural contract drawings for resubmittal as shop drawings is prohibited. Shop drawings produced in such a manner will be rejected and returned. See AISC 303 Section 4.3 for additional information.

C. Steel Connection Calculations:
   1. Fabricator's responsibilities include using a qualified registered professional engineer licensed in the State in which the Project is located to prepare structural analysis data for structural steel connections.
   2. Submit shop standards for typical steel framing connections. Shop standards shall be signed and sealed by the registered professional engineer responsible for their preparation. Shop drawings will not be reviewed until applicable shop standards have been submitted and approved.

3. Submit calculations for bracing connections, splices, connections not covered by shop standards, and other connections as indicated in the Contract Documents. Calculations shall be signed and sealed by the registered professional engineer responsible for their preparation. Shop drawings will not be reviewed until applicable calculations have been submitted and approved.

D. Connection design Engineer shall review fabricators shop drawings for implementation of their connection design and provide letter stating such per AISC 303 Section 3.1.1 Option (3).

E. The connections shall be designed by a licensed professional engineer working for the fabricator.

F. Manufacturer's Mill Certificate: Certify that products meet or exceed specified requirements.

G. Field quality-control and special inspection reports.

H. Fabricator's Qualification Statement: Provide documentation showing steel fabricator is accredited under IAS AC172 or that participates in the AISC Quality Certification Program and is designated an AISC-Certified Plant.

1.6 QUALITY ASSURANCE

A. Fabricate structural steel members in accordance with AISC (MAN) "Steel Construction Manual."

B. Fabricator Qualifications: A qualified steel fabricator that is accredited by the International Accreditation Service (IAS) Fabricator Inspection Program for Structural Steel in accordance with IAS AC172 or that participates in the AISC Quality Certification Program and is designated an AISC-Certified Plant.

C. Erector: Company specializing in performing the work of this section with minimum 10 years of documented experience.

PART 2 PRODUCTS

2.1 MATERIALS

A. Steel Angles and Plates: ASTM A36/A36M.

B. Steel W Shapes and Tees: ASTM A992/A992M.

C. Rolled Steel Structural Shapes: ASTM A992/A992M.

D. Cold-Formed Structural Tubing: ASTM A500/A500M, Grade B.

E. Pipe: ASTM A53/A53M, Grade B, Finish black.

F. High-Strength Structural Bolts, Nuts, and Washers: ASTM F3125/F3125M, Type 1, with matching compatible ASTM A563 or ASTM A563M nuts and ASTM F436/F436M washers.

G. Tension Control Bolts: Twist-off type; ASTM F3125/F3125M.

H. Welding Materials: AWS D1.1/D1.1M; type required for materials being welded.

I. Grout: ASTM C1107/C1107M; Non-shrink; premixed compound consisting of non-metallic aggregate, cement, water reducing and plasticizing agents.
   1. Minimum Compressive Strength at 48 Hours: 2,000 pounds per square inch (13.7 MPa).
   2. Minimum Compressive Strength at 28 Days: 8,000 pounds per square inch (54.8 MPa).

2.2 FABRICATION

A. Shop fabricate to greatest extent possible.

B. Space shear stud connectors as indicated on drawings.

C. Fabricate connections for bolt, nut, and washer connectors.

2.3 FINISH

A. Prepare structural component surfaces in accordance with SSPC-SP 3.

B. Refer to Architectural drawings for steel finishes plan.

2.4 SOURCE QUALITY CONTROL

A. Special Inspections: Owner will engage a qualified special inspector to perform the inspections indicated in the Statement of Special Inspections.

B. Testing Agency: Engage a qualified testing agency to perform tests and inspections

PART 3 EXECUTION

3.1 EXAMINATION

A. Verify that conditions are appropriate for erection of structural steel and that the work may properly proceed.

3.2 ERECTION

A. Erect structural steel in compliance with AISC 303.

B. Allow for erection loads and provide sufficient temporary bracing to maintain structure in safe condition, plumb, and in true alignment until completion of erection and installation of permanent bracing.

C. Field weld components indicated on shop drawings.

D. Use carbon steel bolts only for temporary bracing during construction, unless otherwise specifically permitted on drawings. Install high-strength bolts in accordance with RCSC (HSBOLT) "Specification for Structural Joints Using High-Strength Bolts".

E. Do not field cut or alter structural members without approval of Architect. Finish thermally cut sections within smoothness limits in AWS D1.1/D1.1M.

3.3 TOLERANCES

A. Set structural steel accurately in locations and to elevations indicated and according to AISC 360 Specification for Structural Steel Buildings and AISC S303 Code of Standard Practice for Steel Buildings and Bridges.

3.4 FIELD QUALITY CONTROL

A. An independent testing agency will perform field quality control tests, as specified in Section 01 4000 - Quality Requirements.

B. Special Inspections: Owner will engage a qualified special inspector to perform the inspections indicated in the Statement of Special Inspections.

3.5 REPAIRS AND PROTECTION

A. Galvanized Surfaces: Clean areas where galvanizing is damaged or missing and repair galvanizing to comply with ASTM A780/A780M and manufacturer's written instructions.

END OF SECTION 05 1200

SECTION 05 3100 - STEEL DECKING

PART 1 GENERAL

1.1 RELATED REQUIREMENTS

A. Section 05 1200 - Structural Steel Framing: Support framing for openings larger than 12 inches (300 mm).

1.2 REFERENCE STANDARDS

A. ASTM A36/A36M - Standard Specification for Carbon Structural Steel 2019.

B. ASTM A653/A653M - Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process 2020.

C. AWS D1.1/D1.1M - Structural Welding Code - Steel 2020, with Errata (2021).

D. AWS D1.3/D1.3M - Structural Welding Code - Sheet Steel 2018.

E. IAS AC172 - Accreditation Criteria for Fabricator Inspection Programs for Structural Steel AC172 2019.

F. ICC-ES AC43 - Acceptance Criteria for Steel Deck Roof and Floor Systems 2016.

G. ICC-ES AC70 - Acceptance Criteria for Fasteners Power Driven into Concrete, Steel and Masonry Elements 2016.

H. SDI (DM) - Publication No.30, Design Manual for Composite Decks, Form Decks, and Roof Decks 2007.

I. SSPC-Paint 15 - Steel Joist Shop Primer/Metal Building Primer 1999 (Ed. 2004).

1.3 SUBMITTALS

A. See Section 01 3000 - Administrative Requirements, for submittals procedures.

B. Shop Drawings: Indicate deck plan, support locations, projections, openings, reinforcement, pertinent details, and accessories.

C. Reproduction of any portion of the structural contract drawings for resubmittal as shop drawings is prohibited. Shop drawings produced in such a manner will be rejected and returned.

D. Certificates: Certify that products furnished meet or exceed specified requirements.

E. Submit manufacturer's installation instructions.

1.4 QUALITY ASSURANCE

A. Fabricator Qualifications: A qualified steel fabricator that is accredited by the International Accreditation Service (IAS) Fabricator Inspection Program for Structural Steel in accordance with IAS AC172.

B. Installer Qualifications: Company specializing in performing the work of this Section with minimum 5 years of experience.

C. PAF: Use of powder actuated tools shall only be by a qualified operator, trained and licensed by the tool manufacturer in accordance with the manufacturers and OSHA requirements.

1.5 DELIVERY, STORAGE, AND HANDLING

A. Cut plastic wrap to encourage ventilation.

B. Separate sheets and store deck on dry wood sleepers; slope for positive drainage.

PART 2 PRODUCTS

2.1 MANUFACTURERS

A. Steel Deck:
1. Canam Steel Corporation: www.canam-steeljoists.ws.
2. Nucor-Vulcraft Group: www.vulcraft.com.
3. ASC Profiles, Inc.: www.ascprofiles.com
4. Roof Deck, Inc.: roofdeckinc.com
5. New Millennium Building Systems, LLC: www.newmill.com
6. Epic Metals Corporation: www.epicmetals.com

2.2 STEEL DECK

A. Composite Floor Deck: Fluted steel sheet embossed to interlock with concrete:
1. Galvanized Steel Sheet: ASTM A653/A653M, Structural Steel (SS) Grade 33/230, with G60/Z180 galvanized coating.
2. Span Design: Double.
3. Minimum Base Metal Thickness: As indicated on drawings.
4. Nominal Height: As indicated on drawings.
5. Profile: Fluted; As indicated on drawings.
6. Side Joints: Lapped, mechanically fastened.
7. Extended Female Leg Option: Fabricate panels with an extended female leg at interlocking seams that allows for sidelap screws to be installed vertically.

B. Metal Form Deck: Corrugated sheet steel, with provision for ventilation of concrete:
1. Galvanized Steel Sheet: ASTM A653/A653M, Structural Steel (SS) Grade 33/230, with G90/Z275 galvanized coating.
2. Minimum Base Metal Thickness: As indicated on drawings.
3. Nominal Height: As indicated on drawings.
4. Side Joints: Lapped, mechanically fastened.

2.3 ACCESSORY MATERIALS

A. Bearing Plates and Angles: ASTM A36/A36M steel, galvanized per ASTM A123/A123M.

B. Welding Materials: AWS D1.1/D1.1M.

C. Fasteners: Galvanized hardened steel, self tapping.

D. Powder Actuated Mechanical Fasteners: Steel; with knurled shank and forged ballistic point. Comply with applicable requirements of ICC-ES AC70.
   1. Design Requirements: Provide number and type of fasteners that comply with the applicable requirements of SDI (DM) design method for roof deck and floor deck applications and ICC-ES AC43.
   2. Equivalent values in schedule on drawing.
   3. Products:
      a) Basis-of-Design Product: Hilti: www.hilti.com
      b) Simpson Strong-Tie: www.strongtie.com.
      c) DEWALT Fasteners: www.anchors.dewalt.com
      d) Ramset: www.ramset.com
      e) Substitutions: See Section 01 6000 - Product Requirements.

E. Mechanical Fasteners: Steel; hex washer head, self-drilling, self-tapping.
   1. Design Requirements for Sidelap Connections: Provide number and type of fasteners that comply with the applicable requirements of SDI (DM) design method for roof deck and floor deck applications and ICC-ES AC43.

F. Shop and Touch-Up Primer: SSPC-Paint 15, complying with VOC limitations of authorities having jurisdiction.

G. Touch-Up Primer for Galvanized Surfaces: ASTM A 780/A 780M, complying with VOC limitations of authorities having jurisdiction.

H. Pour Stops and Girder Fillers: Steel sheet, minimum yield strength of 33,000 psi (230 MPa), of same material and finish as deck, and of thickness and profile recommended by SDI Publication No. 31 for overhang and slab depth.

I. Column Closures, End Closures, Z-Closures, and Cover Plates: Steel sheet, of same material, finish, and thickness as deck unless otherwise indicated.

2.4 FABRICATED DECK ACCESSORIES

A. Sheet Metal Deck Accessories: Metal closure strips, wet concrete stops, cover plates, finish strips, and reinforcing channels,closure strips, wet concrete stops, cover plates, finish strips, and reinforcing channels same gage as deck thick sheet steel; of profile and size as indicated; finished same as deck.

PART 3 EXECUTION

3.1 EXAMINATION

A. Verify existing conditions prior to beginning work.

B. Examine supporting frame and field conditions for compliance with requirements for installation tolerances and other conditions affecting performance of the Work.

C. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 INSTALLATION

A. Erect metal deck in accordance with SDI Design Manual and manufacturer's instructions. Align and level.

B. On concrete and masonry surfaces provide minimum 4 inch (100 mm) bearing.

C. On steel supports provide minimum 1-1/2 inch (38 mm) bearing.

D. Locate deck bundles to prevent overloading of supporting members.

E. Place deck panels on supporting frame and adjust to final position with ends accurately aligned and bearing on supporting frame before being permanently fastened. Do not stretch or contract side-lap interlocks.

F. The steel roof deck has been designed for uniformly distributed loads and must not be used as the equivalent of point loads or linear loads. Concentrated loads applied to steel roof deck shall not be permitted unless authorized in writing by the structural engineer.

G. Suspended ceilings, excluding acoustical ceiling tile (ACT) or single-layer gypsum wall board (GWB) types, light fixtures, ducts or other utilities shall not be supported from steel roof deck. Install carrying channels or supplemental supports that connect to main structural framing members.

H. The steel deck has not been designed or analyzed for their ability to support the load/weight of scaffolding, stored materials, etc. during construction. All contractors and/or sub-contractors shall hire their own independent engineer, licensed in the jurisdiction of this project, to determine the adequacy of the steel deck to support these loads/weight.

I. Fasten deck as indicated on drawings.

J. Fasten roof deck panels to steel supporting members with low velocity powder actuated fasteners. Installation of fasteners shall be in accordance with design requirements of SDI and installed by an operator licensed by the manufacturer which Hilti provides.
   1. For bar joist base material thicknesses between 3/16” to 3/8” use the Hilti X-EDN19 fastener. For base material thicknesses between 1/8” to 1/4” use the Hilti X-EDNK22 fastener. Mechanically fasten using Hilti DX 460 (hand-held) or DX 860 HSN (stand-up) tools.

2. For heavy bar joists or beams with base materials thicknesses of Tf >= 1/4" use the Hilti X-ENP19 fastener. Mechanically fasten using Hilti DX76 (hand-held) or DX860 ENP (stand-up) tools.

K. Fasten floor deck panels to steel supporting members with low velocity powder actuated fasteners. Installation of fasteners shall be in accordance with design requirements of SDI or ICC and installed by an operator licensed by the manufacturer which Hilti provides.
   1. Mechanically fasten using Hilti DX76 (hand-held), DX860 ENP (stand-up). For heavy bar-joist or beam base material thicknesses greater than or equal to ¼" use the Hilti X-ENP19 fastener.

L. At mechanically fastened male/female side laps fasten at 18 inches (450 mm) on center maximum.

M. Drive mechanical sidelap connectors completely through adjacent lapped sheets; positively engage adjacent sheets with minimum three-thread penetration.

N. Weld deck in accordance with AWS D1.3/D1.3M.

O. At floor edges, install concrete stops upturned to top surface of slab, to contain wet concrete. Provide stops of sufficient strength to remain stationary without distortion.

P. At openings between deck and walls, columns, and openings, provide sheet steel closures and angle flashings to close openings.

Q. Immediately after welding deck and other metal components in position, coat welds, burned areas, and damaged surface coating, with touch-up primer.

R. When installation of deck is complete and prior to placing concrete, all deck shall be cleaned of all debris.

3.3 FIELD QUALITY CONTROL

A. An independent testing agency will perform field quality control tests, as specified in Section 01 4000 - Quality Requirements.

B. Comply with quality assurance inspection requirements of SDI (QA/QC), "Standard for Quality Control and Quality Assurance for the Installation of Steel Deck", as modified by Table C1 contained in the Commentary to that Standard and the Statement of Special Inspections.

C. Welds: Verify compliance with AWS D1.3/D1.3M; continuous.

D. PAF: The manufacturer of the powder actuated system (tools and fasteners) shall be involved in the inspection and quality control process. This will require site visits for training and during installation to assist in the proper installation. Proper installation is determined by pin-head standoff.

E. Remove and replace work that does not comply with specified requirements.

F. Additional testing and inspecting, at Contractor's expense, will be performed to determine compliance of corrected work with specified requirements.

END OF SECTION 05 3100

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CONCEPT IMAGE - SUBJECT TO CHANGE

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171 White Plains Rd.
Bronxville, NY 10708

APPLICABLE CODES

Building	2020 Building Code of New York State (BCNYS), which is an amended version of the 2018 International Building Code (IBC)
	2020 Existing Building Code of New York State (EBCNYS), which is and amended version of the 2018 International Existing Building Code (IEBC)
Fire Code	2020 Fire Code of New York State (FCNYS), which is an amended version of the 2018 International Fire Code (IFC)
Accessibility	BCNYS Chapter 11 and Appendix E
	2009 Edition of ICC A117.1, Accessible and Usable Buildings and Facilities
	2010 ADA Standards for Accessible Design
Plumbing Code	2020 Plumbing Code of New York State (PCNYS), which is an amended version of the 2018 International Plumbing Code (IPC)
Mechanical Code	2020 Mechanical Code of New York State (MCNYS), which is an amended version of the 2018 International Mechanical Code (IMC)
Fuel Gas Code	2020 Fuel Gas Code of New York State (FGCNYS), which is an amended version of the 2018 International Fuel Gas Code (IFGC)
Energy Code	2020 Energy Conservation Construction Code of New York State (ECCCNYS), which is an amended version of the 2018 International Energy Conservation Code (IECC)
Electrical Code	2017 Edition of NFPA 70, National Electric Code, as referenced by BCNYS Chapter 35

LIST OF DRAWINGS

Owner:
Iona College
715 North Avenue
New Rochelle, NY 10801

Owner's Representative:
JLL Project and Development Services
1 Station Place
Stamford, CT 06902

Civil Engineer:
Langan
One North Broadway
Suite 910
White Plains, NY 10601

Architect / Landscape Architect / Structural Engineer:
S/L/A/M Architects, Landscape Architects & Engineers, P.C.
80 Glastonbury Boulevard
Glastonbury, CT 06033

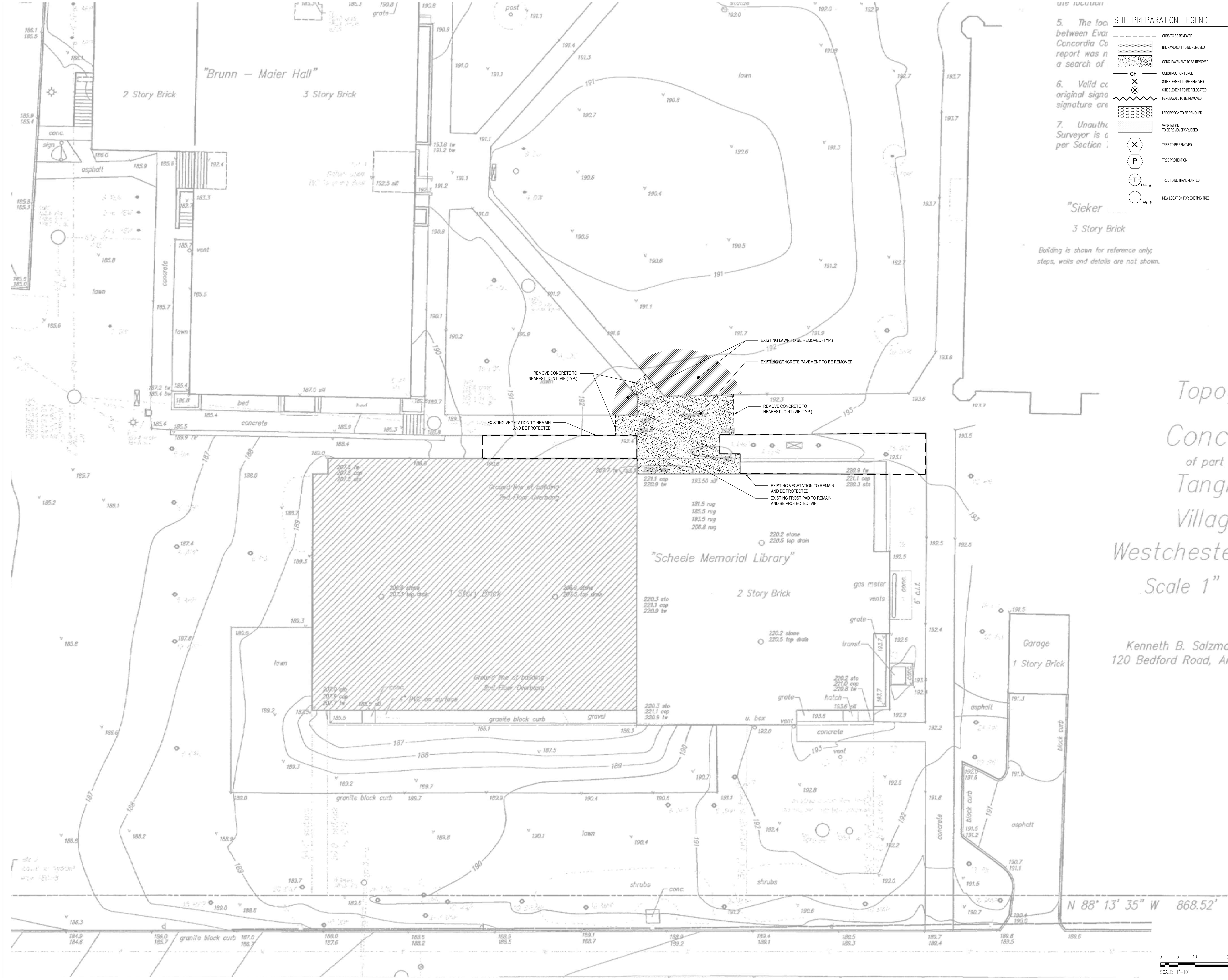
Mechanical / Electrical / Plumbing / Fire Protection / Technology:
CES Engineering, LLC
216 E. 45th St., 16th Flr.
New York, NY 10017

Code Consultant:
Code Red Consultants, LLC
154 Turnpike Road, Suite 200
Southborough, MA 01772

REVISED

1	02/11/2022	ADDENDUM NO. 1

Binding: VOLUME 1 of 1
Issued for: BID PACKAGE NO. 1
Date: 01/27/2022
Proj No. : 20287.10


SITE PREPARATION LEGEND
CURB TO BE REMOVED
BIT. PAVEMENT TO BE REMOVED
CONC. PAVEMENT TO BE REMOVED
CONSTRUCTION FENCE
SITE ELEMENT TO BE REMOVED
SITE ELEMENT TO BE RELOCATED
FENCE/WALL TO BE REMOVED
LEDGE/ROCK TO BE REMOVED
VEGETATION TO BE REMOVED/GRUBBED
TREE TO BE REMOVED
TREE PROTECTION
TREE TO BE TRANSPLANTED
NEW LOCATION FOR EXISTING TREE
EXISTING LAWN TO BE REMOVED (TYP.)
EXISTING CONCRETE PAVEMENT TO BE REMOVED
REMOVE CONCRETE TO NEAREST JOINT (VIF)(TYP.)
EXISTING VEGETATION TO REMAIN AND BE PROTECTED
EXISTING FROST PAD TO REMAIN AND BE PROTECTED (VIF)
"Brunn – Maier Hall"
2 Story Brick
3 Story Brick
"Scheele Memorial Library"
2 Story Brick
1 Story Brick
Garage
1 Story Brick
"Sieker
3 Story Brick
Building is shown for reference only; steps, walls and details are not shown.
N 88° 13' 35" W 868.52'
Kenneth B. Salzman
120 Bedford Road, Arm
SCALE: 1"=10'

SLAM

S / L / A / M Architects, Landscape Architects & Engineers, P.C.

80 Glastonbury Boulevard
Glastonbury, CT 06033-4410
Phone: 860 657.8077

www.slamcoll.com

Drawn: SB

Checked: DG

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715 North Avenue
New Rochelle, NY
10801

KEYPLAN

Number	Date	Issued For
	02/11/2022	ADDENDUM NO. 1

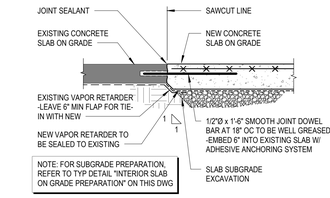
SITE DEMOLITION AND PREPARATION

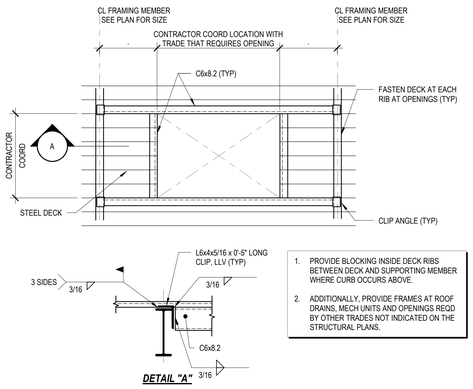
Date: 02/11/2022

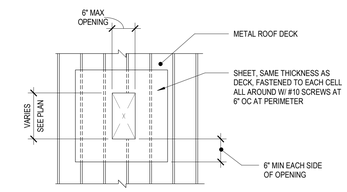
Scale: 1" = 10'

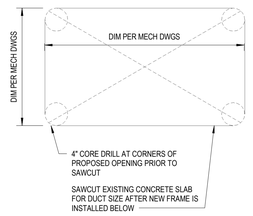
Proj. Number: 20287.10

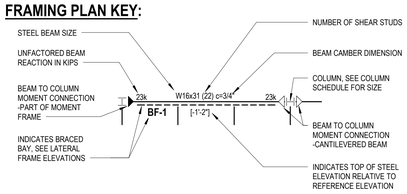
Drawing Number: L101











STRUCTURAL GENERAL NOTES

A. **CODES AND STANDARDS:**
THE FOLLOWING CODES AND STANDARDS, AND ALL REFERENCED STANDARDS THEREIN, SHALL APPLY TO THE DESIGN, CONSTRUCTION, AND QUALITY CONTROL OF ALL WORK PERFORMED ON THE PROJECT. USE THE LATEST EDITIONS UNLESS NOTED OTHERWISE. SAFETY AND CONSTRUCTION MEANS AND METHODS ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

1. 2020 BUILDING CODE OF NEW YORK STATE
2. INTERNATIONAL BUILDING CODE, 2018
3. "MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES" (SEI/ASCE 7-16), AMERICAN SOCIETY OF CIVIL ENGINEERS
4. "STEEL CONSTRUCTION MANUAL" 15TH EDITION, 2017, AMERICAN INSTITUTE OF STEEL CONSTRUCTION (INCLUDING SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS)
5. "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE" ACI 318-14, AMERICAN CONCRETE INSTITUTE

B. **DESIGN DATA:**

1. FLOOR LIVE LOAD:

	AREA	UNIFORM LOAD	CONC. LOAD	LL REDUCIBLE?	IMPACT LOAD
a.	OFFICES	50 psf	2,000 lbs	Yes	N/A
b.	CLASSROOMS	40 psf	1,000 lbs	Yes	N/A
c.	FIRST FLOOR CORRIDORS	100 psf	1,000 lbs	Yes	N/A
d.	CORRIDORS ABOVE FIRST FLOOR	80 psf	1,000 lbs	Yes	N/A
e.	STAIRS AND EXIT WAYS	100 psf	300 lbs	Yes	N/A
f.	ELEVATOR MACHINE ROOM	150 psf (USE WEIGHT OF ACTUAL EQUIPMENT WHEN GREATER)			
g.	KITCHENS	150 psf (USE WEIGHT OF ACTUAL EQUIPMENT WHEN GREATER)			
h.	RESTROOMS	60 psf			
i.	STORAGE WAREHOUSE, LIGHT	125 psf	N/A	No	N/A
j.	ASSEMBLY FIXED SEATS	60 psf	N/A	No	N/A
k.	ASSEMBLY MOVABLE SEATS,	100 psf	N/A	No	N/A

2. ROOF LIVE LOAD:
(ROOF SNOW LOAD GOVERNS DESIGN)

3. ROOF SNOW LOAD:
   a. GROUND SNOW LOAD, P_g = 20 psf
   b. FLAT ROOF SNOW LOAD, P_f = 15.4 psf
   c. SNOW EXPOSURE FACTOR, C_e = 1.0
   d. SNOW LOAD IMPORTANCE FACTOR, I_s = 1.1
   e. THERMAL FACTOR, C_t = 1.0
   f. SLOPE FACTOR, C_s = N/A
   g. DRIFT SURCHARGE LOADS, N/A

4. WIND LOAD:
   a. BASIC WIND SPEED (3 SECOND GUST) MPH, V_{ult} = 130 mph
   b. NOMINAL DESIGN WIND SPEED MPH, V_{asd} = 101 mph
   c. RISK CATEGORY III
   d. WIND EXPOSURE B
   e. INTERNAL PRESSURE COEFFICIENT GC_{pi} = ± 0.18
   f. COMPONENTS AND CLADDING:
      - WIND DIRECTIONALITY FACTOR, K_d = 0.85
      - TOPOGRAPHIC FACTOR, K_{zt} = 1.0
      - WIND PRESSURES, N/A

5. EARTHQUAKE DESIGN DATA:
   a. RISK CATEGORY III
   b. SEISMIC IMPORTANCE FACTOR, I_e = 1.25
   c. MAPPED SPECTRAL RESPONSE COEFFICIENTS S_s = 0.300 S_1 = 0.060
   d. SOIL SITE CLASS D
   e. DESIGN SPECTRAL RESPONSE COEFFICIENTS, S_{ds} = 0.312 S_{d1} = 0.096
   f. SEISMIC DESIGN CATEGORY B
   g. BASIC SEISMIC FORCE RESISTING SYSTEM N/A
   h. DESIGN BASE SHEAR V = N/A
   i. SEISMIC RESPONSE COEFFICIENT, C_s = N/A
   j. RESPONSE MODIFICATION FACTOR, R = N/A
   k. DEFLECTION AMPLIFICATION FACTOR, C_d = N/A
   l. OVERSTRENGTH FACTOR Ω_o = N/A
   m. ANALYSIS PROCEDURE N/A
   n. LONG-PERIOD TRANSITION PERIOD T_L= 6.00 sec

6. FLOOD DESIGN DATA:
   a. FLOOD DESIGN CLASS (per ASCE 24)
   b. ELEVATION LOWEST FLOOR __ft RELATIVE TO DATUM - N/A
   c. ELEVATION OF DRY FLOODPROOFING __ ft - N/A
   d. BOTTOM OF THE LOWEST ELEVATION OF THE LOWEST HORIZONTAL STRUCTURAL MEMBER OF THE LOWEST FLOOR ___ ft. - N/A

C. **FOUNDATIONS/GEOTECHNICAL REPORT:**

1. FOUNDATIONS HAVE BEEN DESIGNED IN ACCORDANCE WITH THE INFORMATION SHOWN ON THE EXISTING BUILDING DRAWINGS. NO NEW GEOTECHNICAL REPORT HAS BEEN PROVIDED BY THE OWNER FOR THIS PROJECT.

D. **MATERIALS:**

1. THE FOLLOWING ASTM STANDARDS AND DESIGN STRESSES SHALL BE USED FOR THE APPROPRIATE MATERIALS USED IN THE CONSTRUCTION OF THIS PROJECT.

2. CEMENT: ASTM C150; TYPE I / II

3. CONCRETE:
ALL ELEVATED SLABS SHALL BE LIGHT-WEIGHT CONCRETE.
ALL OTHER CONCRETE SHALL BE NORMAL WEIGHT CONCRETE.

APPLICATION	F'C @28 DAYS (PSI)
INTERIOR SLABS ON GRADE	4000
EXTERIOR BLDG SLABS ON GRADE	4500
LIGHT-WEIGHT FILL ON METAL DECK	4000
FOUNDATION WALLS, FOOTINGS	4000

4. REINFORCEMENT:
   a. DEFORMED REINFORCING BARS - GRADE 60

5. STEEL:

a.	STRUCTURAL STEEL WIDE FLANGE & TEE SECTIONS	ASTM A992
b.	STRUCTURAL ANGLES, CHANNELS & PLATES	ASTM A36
c.	ROUND HOLLOW STRUCTURAL SHAPES	ASTM A500, GRADE B, Fy=42ksi
d.	RECTANGULAR HOLLOW STRUCTURAL SHAPES	ASTM A500, GRADE B, Fy=46ksi
e.	HIGH STRENGTH BOLTS	ASTM A325-N OR TC-TYPE
f.	WELDING ELECTRODES	AWS A5.1 OR A5.5, E70XX

E. **CONSTRUCTION:**

1. GENERAL:
   a. IN CASE OF CONFLICT BETWEEN THE GENERAL NOTES, DETAILS AND SPECIFICATIONS, THE MOST STRINGENT REQUIREMENTS SHALL GOVERN.

   b. TYPICAL DETAILS APPLY REPETITIVELY ON THE PROJECT. CONTRACTOR SHALL COORDINATE THE GENERAL REQUIREMENTS OF TYPICAL DETAILS WITH PROJECT CONDITIONS, PLANS, SPECIFICATIONS, AND SECTIONS.

   c. REPRODUCTION OF ANY PORTION OF THE STRUCTURAL CONTRACT DRAWINGS FOR RESUBMITTAL AS SHOP DRAWINGS IS PROHIBITED. SHOP DRAWINGS PRODUCED IN SUCH A MANNER WILL BE REJECTED AND RETURNED.

   d. THESE DRAWINGS REPRESENT THE COMPLETED PROJECT WHICH HAS BEEN DESIGNED FOR THE WEIGHTS OF THE MATERIALS INDICATED ON THE DRAWINGS AND FOR THE SUPERIMPOSED LOADS INDICATED IN THE DESIGN DATA. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE ALLOWABLE CONSTRUCTION LOADS AND TO PROVIDE PROPER DESIGN AND CONSTRUCTION OF FALSEWORK, FORMWORK, STAGINGS, BRACING, SHEETING AND SHORING, ETC.

   e. DIMENSIONS AND DETAILS OF EXISTING CONSTRUCTION SHOWN ON THE STRUCTURAL DRAWINGS ARE APPROXIMATE AND ARE BASED ON LIMITED INFORMATION. THE CONTRACTOR SHALL VERIFY ALL INFORMATION PERTAINING TO EXISTING CONDITIONS BY ACTUAL MEASUREMENT AND OBSERVATION AT THE SITE AND SHALL NOTIFY THE ARCHITECT AND STRUCTURAL ENGINEER OF ANY DISCREPANCIES PRIOR TO SHOP DRAWING SUBMITTALS. UNLESS INDICATED OTHERWISE, NEW SLABS ARE TO BE AT THE SAME ELEVATIONS AS ADJACENT EXISTING SLABS. FOUNDATION ELEVATIONS OR COLUMN LENGTHS SHALL BE ADJUSTED WITH THE APPROVAL OF THE STRUCTURAL ENGINEER TO ACHIEVE MATCHING SLAB ELEVATIONS.

   f. IMPLEMENTING JOB SITE SAFETY AND CONSTRUCTION PROCEDURES, TEMPORARY SHORING, AND BRACING OF CONSTRUCTION ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

   g. ALL COSTS OF INVESTIGATION AND/OR REDESIGN, DUE TO CONTRACTOR MISLOCATION OF STRUCTURAL ELEMENTS OR OTHER LACK OF CONFORMANCE WITH THE PROJECT DOCUMENTS, SHALL BE AT THE CONTRACTOR'S EXPENSE.

   h. CONTRACTOR SHALL COORDINATE WITH ALL ARCHITECTURAL, MECHANICAL, PLUMBING, ELECTRICAL, LAUNDRY AND FOOD SERVICE DRAWINGS FOR SIZE AND LOCATIONS OF OPENINGS, SLEEVES, CONCRETE HOUSEKEEPING PADS, INSERTS, AND DEPRESSIONS. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING HIS WORK WITH THE WORK OF ALL OTHER TRADES.

   i. THE SLAB-ON-GRADE AND THE FRAMED STRUCTURAL FLOORS OF THIS BUILDING HAVE NOT BEEN DESIGNED OR ANALYZED FOR THEIR ABILITY TO SUPPORT THE LOAD/WEIGHT OF MECHANICAL OR ELECTRICAL MAN-LIFTS, MATERIAL LIFTS OR STORED MATERIALS DURING CONSTRUCTION. ALL CONTRACTORS AND/OR SUB-CONTRACTORS SHALL HIRE THEIR OWN INDEPENDENT ENGINEER, LICENSED IN THE JURISDICTION OF THIS PROJECT, TO DETERMINE THE ADEQUACY OF THE FLOOR OR SLAB TO SUPPORT THE WEIGHT OF THE LIFTS, NUMBER OF LIFTS THAT CAN BE ON THE FLOOR, ADJACENCY TO OTHER LIFTS AND WEIGHT OF STORED MATERIALS, ETC. THE S/L/A/M COLLABORATIVE, INC. TAKES NO RESPONSIBILITY FOR ANY DAMAGE TO THE FLOORS CAUSED BY CONTRACTOR SUPPLIED LIFTS OR STORED MATERIALS. AS-DESIGNED SLAB-ON-GRADE AND FRAMED FLOOR LIVE LOADS ARE LISTED ABOVE.

2. INSPECTION AND TESTING:
   a. THE OWNER SHALL ENGAGE A TESTING AGENCY AND A SPECIAL INSPECTOR TO PROVIDE SERVICES AND SUBMIT REPORTS AS INDICATED IN THE SPECIFICATIONS AND STATEMENT OF SPECIAL INSPECTIONS.

   b. THE OWNER SHALL ENGAGE A TESTING AGENCY TO PROVIDE SERVICES AND SUBMIT REPORTS AS INDICATED IN THE SPECIFICATIONS.

F. **FOUNDATIONS & STRUCTURAL EARTHWORK:**

1. GENERAL:
   a. SEE THE SPECIFICATIONS AND GEOTECHNICAL REPORT REQUIREMENTS FOR EXCAVATION AND PREPARATION OF THE FOUNDATION AND SLAB-ON-GRADE SUBGRADE, INCLUDING COMPACTION PROCEDURES. REQUIREMENTS CONTAINED IN THE GEOTECHNICAL REPORT ARE PART OF THIS WORK.

   b. EXISTING UTILITIES KNOWN TO BE IN THE CONSTRUCTION AREA HAVE BEEN INDICATED. THE SIZE, LOCATION AND DEPTH OF THE UTILITIES ARE NOT KNOWN EXACTLY AND MAY VARY SIGNIFICANTLY FROM THAT INDICATED. OTHER UNKNOWN UTILITIES NOT INDICATED MAY ALSO BE PRESENT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND PROTECTING ALL EXISTING UTILITIES, WHETHER INDICATED OR NOT, WHICH MAY BE AFFECTED BY THE CONSTRUCTION PROCESS, AND SHALL VERIFY ALL EXISTING FIELD CONDITIONS THAT MAY AFFECT THE INSTALLATION OF THE FOUNDATION SYSTEM AS SHOWN PRIOR TO STARTING WORK.

   c. CONCRETE FOR FOUNDATIONS SHALL BE PLACED ON THE SAME DAY SUBGRADE APPROVAL IS GIVEN.

   d. UTILITY LINES SHALL NOT BE PLACED THROUGH OR BELOW FOUNDATIONS WITHOUT THE STRUCTURAL ENGINEER'S APPROVAL.

G. ALL SHORING, SHEETING, AND DEWATERING SHALL BE THE TOTAL RESPONSIBILITY OF THE CONTRACTOR. SHEETING AND SHORING SHALL BE DESIGNED BY THE CONTRACTOR'S ENGINEER REGISTERED IN THE PROJECT'S JURISDICTION. ALL SUBMITTALS SHALL BEAR CONTRACTOR'S/ ENGINEERING SEAL AND SIGNATURE.
CONCRETE:

1. CAST-IN-PLACE:
REINFORCING STEEL CLEAR COVER SHALL BE AS FOLLOWS UNLESS NOTED OTHERWISE:
   - NON-POST-TENSIONED CONCRETE:
     CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH: 3"
     CONCRETE EXPOSED TO EARTH OR WEATHER:
       #6 BARS AND LARGER: 2"
       #5 BARS AND SMALLER: 1½"
     CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND:
       SLABS, WALL, JOISTS:
         #11 BARS AND SMALLER: ¾"
       BEAMS, COLUMNS:
       PRIMARY REINFORCEMENT, TIES, STIRRUPS, SPIRALS: 1½"

   a. CONSTRUCTION JOINTS AND CONTRACTION JOINTS IN SLABS-ON-GRADE SHALL BE ARRANGED TO LIMIT MAXIMUM AREA BETWEEN JOINTS TO 400 S.F. APPROXIMATELY SQUARE, MAXIMUM 1 ON 1.5 RATIO. ALLOW A MINIMUM OF 48 HOURS TIME BETWEEN PLACEMENT OF ADJACENT SECTIONS. CONTRACTOR SHALL SUBMIT A CONTROL JOINT LAYOUT FOR ARCHITECT APPROVAL.

   b. ALL INSERTS AND SLEEVES SHALL BE CAST-IN-PLACE WHENEVER FEASIBLE. NO SLEEVE SHALL BE PLACED THROUGH ANY CONCRETE ELEMENT UNLESS AUTHORIZED BY THE STRUCTURAL DRAWINGS, APPROVED SLEEVING SUBMITTAL OR SPECIFICALLY AUTHORIZED IN WRITING BY THE STRUCTURAL ENGINEER.

   c. CORE DRILLING SHALL NOT BE PERMITTED UNLESS AUTHORIZED IN WRITING BY THE STRUCTURAL ENGINEER.

   d. WHEN INSTALLING EXPANSION BOLTS OR ADHESIVE ANCHORS, THE CONTRACTOR SHALL TAKE MEASURES TO AVOID DRILLING OR CUTTING OF ANY EXISTING REINFORCING AND DESTRUCTION OF CONCRETE. INSTALL ADHESIVE ANCHORS PER MANUFACTURER'S WRITTEN INSTRUCTIONS.

   e. ACTUAL SLAB THICKNESS MAY VARY DUE TO BEAM AND DECK DEFLECTIONS. CONTRACTOR SHALL PROVIDE ADDITIONAL CONCRETE AS NECESSARY TO MAINTAIN A LEVEL SLAB SURFACE AT THE ELEVATION INDICATED. ADDITIONAL CONCRETE FROM BEAM DEFLECTION HAS BEEN ACCOUNTED FOR IN THE DESIGN.

   f. DO NOT PLACE ANY TYPE OF CONDUITS/PIPES IN ANY STRUCTURAL SLAB.

   g. NO WELDING OF REINFORCING SHALL BE PERMITTED UNLESS SPECIFICALLY CALLED FOR OR APPROVED BY THE STRUCTURAL ENGINEER.

   h. SUBMIT MATERIAL TEST REPORTS FROM A QUALIFIED TESTING AGENCY DEMONSTRATING THAT TEST RESULTS FOR TRIAL MIX BATCHES FOR EACH CONCRETE MIX DESIGN COMPLY WITH ACI 301 AND THE ADDITIONAL REQUIREMENTS OF THE PROJECT CONTRACT DOCUMENTS.

   i. CONCRETE SLABS THAT ARE PART OF COMPOSITE FLOOR FRAMING SYSTEMS SHALL ACHIEVE 28-DAY DESIGN STRENGTH PRIOR TO THE APPLICATION OF ANY SUPERIMPOSED LOADS SUCH AS CURTAIN WALLS, MASONRY VENEERS AND STAIRS.

   j. ALL POST INSTALLED CONCRETE ANCHORS SHALL BE EVALUATED BY THE ICC EVALUATION SERVICE AND SHALL BE TESTED IN ACCORDANCE WITH AC 193 (ACCEPTANCE CRITERIA FOR MECHANICAL ANCHORS) OR AC 308 (ACCEPTANCE CRITERIA FOR ADHESIVE ANCHORS). APPROVED ANCHORS SHALL BE SUITABLE FOR USE IN SEISMIC ZONES A-F IN ADDITION TO CRACKED CONCRETE. CONTRACTORS SHALL SUBMIT MANUFACTURER PRODUCT INFORMATION CLEARLY STATING WHICH ANCHOR TYPE, DIAMETER AND EMBEDMENT IS TO BE USED AS WELL AS INSTALLATION PROCEDURE TO THE STRUCTURAL ENGINEER FOR THEIR REVIEW. ANCHOR INSTALLATION SHALL BE INSPECTED IN ACCORDANCE WITH THE PROGRAM OF SPECIAL INSPECTIONS.

H. **STRUCTURAL STEEL:**

1. GENERAL:
   a. PERMANENT FRAMING AND FINAL CONNECTION DETAILS ARE SHOWN ON THE DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ERECTION SEQUENCES, MEANS, AND METHODS; AND FOR THE DESIGN OF TEMPORARY LATERAL AND VERTICAL BRACING. TEMPORARY BRACING SHALL REMAIN IN PLACE UNTIL THE COMPLETE VERTICAL AND LATERAL FORCE RESISTING SYSTEMS HAVE BEEN INSTALLED.

   b. PROVIDE ACCESS FOR INSPECTION OF ALL SHOP AND FIELD CONNECTIONS FOR PROPER MATERIALS AND WORKMANSHIP.

   c. WELDING ELECTRODES, WELDING PROCESS, MINIMUM PREHEAT AND INTERPASS TEMPERATURES SHALL BE IN ACCORDANCE WITH THE AISC AND AWS SPECIFICATIONS. ANY STRUCTURAL STEEL DAMAGED IN WELDING IS TO BE REPLACED OR REINFORCED AS ACCEPTABLE TO THE STRUCTURAL ENGINEER.

   d. WELDERS SHALL HAVE CURRENT EVIDENCE OF PASSING THE APPROPRIATE AWS QUALIFICATION TESTS. THE ENGINEER MAY REQUEST SUCH EVIDENCE AT ANY TIME DURING THE PROJECT.

   e. THE CONTRACTOR SHALL NOTIFY THE STRUCTURAL ENGINEER OF ANY FABRICATION OR ERECTION ERRORS OR DEVIATIONS AND SHALL RECEIVE WRITTEN APPROVAL BEFORE ANY FIELD CORRECTIONS ARE MADE.

   f. REFER TO ARCHITECTURAL DRAWINGS FOR FIRE PROTECTION, GALVANIZING, PAINTING AND AESS REQUIREMENTS.CX

   g. STEEL FRAMED OPENINGS FOR ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING AND OTHER ITEMS HAVE BEEN SHOWN BASED ON PROGRESS DESIGN DRAWINGS THAT WERE AVAILABLE FOR COORDINATION PRIOR TO THE ISSUANCE OF THE FINAL BID DOCUMENTS. THESE ITEMS ARE SHOWN TO ASSIST THE CONTRACTOR IN UNDERSTANDING THE GENERAL SCOPE OF WORK, BUT ARE NOT INTENDED TO REPRESENT EXACT LOCATIONS, QUANTITIES, OR COMPLETE EXTENT OF REQUIRED COORDINATION. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING HIS WORK WITH THE WORK OF ALL OTHER TRADES. THE CONTRACTOR SHALL PROVIDE STEEL FRAMES FOR ALL OPENINGS AS REQUIRED BY THE TYPICAL FRAMED OPENING DETAIL ON DRAWING S401, WHETHER THEY ARE SHOWN OR NOT SHOWN IN THE DRAWINGS.

2. CONNECTIONS
   a. ALL CONNECTIONS, SPLICES, SHOP STANDARDS, AND TEMPORARY SUPPORT SHALL BE DESIGNED BY THE FABRICATOR'S ENGINEER REGISTERED IN THE PROJECT'S JURISDICTION. CALCULATIONS AND SHOP STANDARDS SHALL BE SUBMITTED BEARING THE ENGINEER'S SEAL AND SIGNATURE PRIOR TO, OR ALONG WITH, PIECE DETAILS.
      - SIMPLE SHEAR CONNECTIONS MAY BE SELECTED FROM AISC'S TABULATED SIMPLE SHEAR CONNECTIONS, SUBJECT TO RESTRICTIONS INDICATED.
      - SPECIALTY CONNECTIONS SHALL BE DESIGNED BASED ON THE LOAD DATA AND SCHEMATIC DETAILS INDICATED.

   b. REACTIONS INDICATED ON FRAMING PLANS ARE BASED ON UNFACTORED LOADS, UNLESS OTHERWISE NOTED. ALL SIMPLE SHEAR CONNECTIONS SHALL BE DESIGNED FOR THE REACTIONS INDICATED BUT NOT LESS THAN 6 kips.

   c. PROVIDE NO LESS THAN 3/16" WELDS EXCEPT ALONG EDGES OF MATERIALS THAT ARE ¼" OR LESS IN THICKNESS, FOR EDGES OF MATERIALS THAT ARE 1/4" OR LESS IN THICKNESS, USE THE MAXIMUM SIZE WELD PERMITTED BY THE GOVERNING AISC SPECIFICATION.

   d. ALL SHOP AND FIELD CONNECTIONS SHALL BE MADE WITH HIGH STRENGTH BOLTS OR WELDS. ALL HIGH STRENGTH BOLTS AND NUTS SHALL BE CLEARLY MARKED AS REQUIRED BY AISC SPECIFICATIONS. CONNECTIONS MADE WITH UNMARKED BOLTS AND NUTS WILL BE REJECTED.

   e. UNLESS OTHERWISE NOTED, ALL BOLTS SHALL BE TIGHTENED TO THE "SNUG TIGHT" CONDITION DEFINED AS THE TIGHTNESS ATTAINED BY A FEW IMPACTS OF AN IMPACT WRENCH OR THE FULL EFFORT OF A PERSON USING AN ORDINARY SPUD WRENCH. THE SNUG TIGHT CONDITION MUST ENSURE THAT THE PLIES OF THE CONNECTED MATERIAL HAVE BEEN BROUGHT INTO SNUG CONTACT.

   f. BOLTS USED IN STRUCTURAL STEEL FRAMING CONNECTIONS SHALL BE A MINIMUM OF ¾" DIAMETER.

   g. BOLTED CONNECTIONS SHALL USE A MINIMUM OF TWO BOLTS PER CONNECTED PART, UNLESS OTHERWISE INDICATED.

   h. PROVIDE THE FOLLOWING MINIMUM NUMBER OF BOLT ROWS CONNECTION, UNLESS OSHA SAFETY GUIDELINES OR CONNECTION GEOMETRY REQUIRES FEWER:

BEAM SIZE	MIN. NO. OF BOLTS
W8, W10, W12	2
W14, W16	3
W18, W21	4

I. **STEEL DECK:**

1. FABRICATE PANELS WITH AN EXTENDED FEMALE LEG AT INTERLOCKING SEAMS THAT ALLOWS FOR SIDELAP SCREWS TO BE INSTALLED VERTICALLY.

2. DO NOT PRIME PAINT DECK AREAS THAT ARE TO RECEIVE SPRAY APPLIED FIREPROOFING. COORDINATE LOCATIONS OF DECK THAT IS TO BE PAINTED WITH THE ARCHITECT.

3. THE STEEL DECK HAS BEEN DESIGNED FOR UNIFORMLY DISTRIBUTED LOADS AND MUST NOT BE USED AS THE EQUIVALENT OF POINT LOADS OR LINEAR LOADS. CONCENTRATED LOADS APPLIED TO STEEL DECK SHALL NOT BE PERMITTED UNLESS AUTHORIZED IN WRITING BY THE STRUCTURAL ENGINEER.

4. SUSPENDED CEILINGS, LIGHT FIXTURES, DUCTS OR OTHER UTILITIES SHALL NOT BE SUPPORTED FROM METAL ROOF DECK.

J. **STRUCTURAL LIGHT GAUGE/LIGHTWEIGHT STEEL FRAMING:**

1. REFER TO SPECIFICATIONS.

NOTE: FOR SUBGRADE PREPARATION, REFER TO TYP DETAIL "INTERIOR SLAB ON GRADE PREPARATION" ON THIS DWG

1 TYPICAL NEW SLAB TO EXISTING SLAB DETAIL
S001 NOT TO SCALE

1. PROVIDE BLOCKING INSIDE DECK RIBS BETWEEN DECK AND SUPPORTING MEMBER WHERE CURB OCCURS ABOVE.
2. ADDITIONALLY, PROVIDE FRAMES AT ROOF DRAINS, MECH UNITS AND OPENINGS REQD BY OTHER TRADES NOT INDICATED ON THE STRUCTURAL PLANS.

2 TYPICAL SUPPORT AT ROOF PENETRATION
S001 NOT TO SCALE

NOTES:
1. ALL ROOF PENETRATIONS SHALL BE PROVIDED TO ENGINEER FOR THEIR REVIEW.
2. OPENINGS EXCEEDING 6" OR IF SECOND OPENING IS LOCATED WITHIN 3'-0", SEE DETAIL *"TYPICAL SUPPORT AT ROOF PENETRATION"*.

3 DETAIL FOR ROOF DECK OPENINGS
S001 NOT TO SCALE

4 TYP NEW OPENING IN EXISTING CONCRETE SLAB
S001 NOT TO SCALE

STRUCTURAL DRAWING LIST

S001	GENERAL NOTES, ABBREVIATIONS AND TYPICAL DETAILS
S101	FOUNDATION & FIRST FLOOR FRAMING PLAN
S301	SECOND FLOOR & ROOF FRAMING PLAN
S410	FRAMING DETAILS

STRUCTURAL ABBREVIATIONS

#	NUMBER OR POUND
&	AND
@	AT
AB	ANCHOR BOLT
ADDL	ADDITIONAL
ADJ	ADJACENT
A/E	ARCHITECT/ENGINEER
AFF	ABOVE FINISHED FLOOR
ALUM	ALUMINUM
ALT	ALTERNATE
ARCH	ARCHITECTURAL/ARCHITECT
AVG	AVERAGE
BFE	BOTTOM OF FOOTING ELEVATION
BGB	BOTTOM OF GRADE BEAM
BLDG	BUILDING
BM	BEAM
BOT	BOTTOM
B PL	BASE PLATE
BRG PL	BEARING PLATE
BS	BOTH SIDES
BTB	BOTTOM OF TIE BEAM
BYD	BEYOND
C	CHANNEL
CANT	CANTILEVER
CB	CONCRETE BEAM/CATCH BASIN
CFMF	COLD-FORMED METAL FRAMING
CJ	CONTRACTION/CONSTRUCTION JOINT
CL	CENTER LINE
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
CO	CLEANOUT
COL	COLUMN
CONC	CONCRETE
CONN	CONNECTION
CONST	CONSTRUCTION
CONT	CONTINUOUS
COORD	COORDINATE
DEFL	DEFLECTION
DEMO	DEMOLITION
Db	BAR DIAMETER
DIA, Ø	DIAMETER
DIM	DIMENSION
DL	DEAD LOAD
DO	DITTO
DWG	DRAWING
DWL	DOWEL
EA	EACH
EF	EACH FACE
EJ	EXPANSION JOINT
EL	ELEVATION
ELEV	ELEVATOR
ELEC	ELECTRICAL
EOS	EDGE OF SLAB
EOD	EDGE OF DECK
EQ	EQUAL
EW	EACH WAY
EX	EXISTING
EXT	EXTERIOR
FTG	FOOTING
FDN	FOUNDATION
FF	FAR FACE
FFE	FINISHED FLOOR ELEVATION
FIN FL	FINISHED FLOOR
FLG	FLANGE
FO	FRAMED OPENING
FS	FOOTING STEP
FT	FOOT/FEET
GA	GAGE
GALV	GALVANIZED
GB	GRADE BEAM
GC	GENERAL CONTRACTOR
GRD	GRADE
HORIZ	HORIZONTAL
HKP	HOUSEKEEPING PAD
HP	HIGH POINT
ID	INSIDE DIAMETER
IF	INSIDE FACE
IN	INCH (ES)
INT	INTERIOR
INV	INVERT
JST	JOIST
JT	JOINT
KB	KNEE BRACE
k	KIP (S)
L	ANGLE
LF	LINEAR FOOT
LG	LIGHT GAUGE
LL	LIVE LOAD
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LP	LOW POINT
LW	LONG WAY
MAS	MASONRY
MATL	MATERIAL
MAX	MAXIMUM
MECH	MECHANICAL
MEZZ	MEZZANINE
MFR	MANUFACTURER
MIN	MINIMUM
MISC	MISCELLANEOUS
MO	MASONRY OPENING
NS	NEAR SIDE
NTS	NOT TO SCALE
NW	NORMAL WEIGHT
OC	ON CENTER
OD	OUTSIDE DIAMETER
OF	OUTSIDE FACE
OH	OPPOSITE HAND
OPP	OPPOSITE
PAF	POWDER ACTUATED FASTENER
PEN	PENETRATION
PL	PLATE
PSL	PARALLEL STRAND LUMBER
QTY	QUANTITY
R	REACTION
R, RAD	RADIUS
RD	ROOF DRAIN
RDP	REGISTERED DESIGN PROFESSIONAL
REF	REFERENCE
REINF	REINFORCE (MENT)
REQ'D	REQUIRED
REV	REVISION
RL	ROOF DRAIN LEADER
ROF	ROOF OPENING FRAME
RTU	ROOF TOP UNIT
SCHED	SCHEDULE
SECT	SECTION
SF	SQUARE FOOT
SHT	SHEET
SIM	SIMILAR
SJ	SEISMIC JOINT
SL	SLOPE
SOG	SLAB ON GRADE
SPEC	SPECIFICATION
STIFF	STIFFENERS
STL	STEEL
STRUCT	STRUCTURAL
SW	SHORT WAY
SYM	SYMMETRICAL, SYMMETRY
T&B	TOP AND BOTTOM
TGB	TOP OF GRADE BEAM
TGE	TOP OF GRADE BEAM ELEVATION
TPC	TOP OF PILE CAP
TPE	TOP OF PIER ELEVATION
TSE	TOP OF SHELF ELEVATION
TTB	TOP OF TIE BEAM
TWE	TOP OF WALL ELEVATION
TYP	TYPICAL
UOD	UNDERSIDE OF DECK
UNO	UNLESS NOTED OTHERWISE
VERT	VERTICAL
VIF	VERIFY IN FIELD
W	WIDE FLANGE
W/O	WITHOUT
W/	WITH
WP	WORKING POINT
WWR	WELDED WIRE REINFORCEMENT

FRAMING PLAN KEY:

PLAN KEYS:

INDICATES CONTRACTOR SHALL COORDINATE DIMENSION WITH APPROVED MANUFACTURER SUBMITTAL.

INDICATES FRAMED OPENING PER DETAIL ON DRAWING S4XX. GENERAL CONTRACTOR IS RESPONSIBLE FOR COORDINATING AND VERIFYING ALL QUANTITIES, SIZES, AND LOCATIONS.

INDICATES AREA OF DEPRESSED CONCRETE SLAB ON GRADE . DEPTH & EXACT LOCATION OF DEPRESSION SHALL BE COORDINATED WITH ARCH DWGS.

INDICATES SLAB OPENING OR PENETRATION

DECK AND SUSPENDED SLAB SCHEDULE

	Deck						Slab		
				Fastening					
Mark	Type	Gage	Depth	End Support	Edge Support	Side Lap	Total Depth	Reinforcement	Remarks
F1	COMPOSITE	18	3"	12"	18"	18"	6.25"	WWR 6x6 - W2.1xW2.1	LIGHT WEIGHT CONCRETE
F2	FORM	24	9/16"	12"	18"	18"	2.5"	WWR 6x6 - W2.1xW2.1	LIGHT WEIGHT CONCRETE

1. WELD DECK TO ALL SUPPORTS INCLUDING EDGE SUPPORTS PARALLEL TO THE DECK WITH MINIMUM 5/8" PUDDLE WELDS SPACED PER SCHEDULE BUT NOT LESS THAN 18" OC OR HEADED STUDS.

2. SIDE LAPS SHALL BE FASTENED WITH #10 SCREWS UNLESS OTHERWISE NOTED IN THE SCHEDULE.

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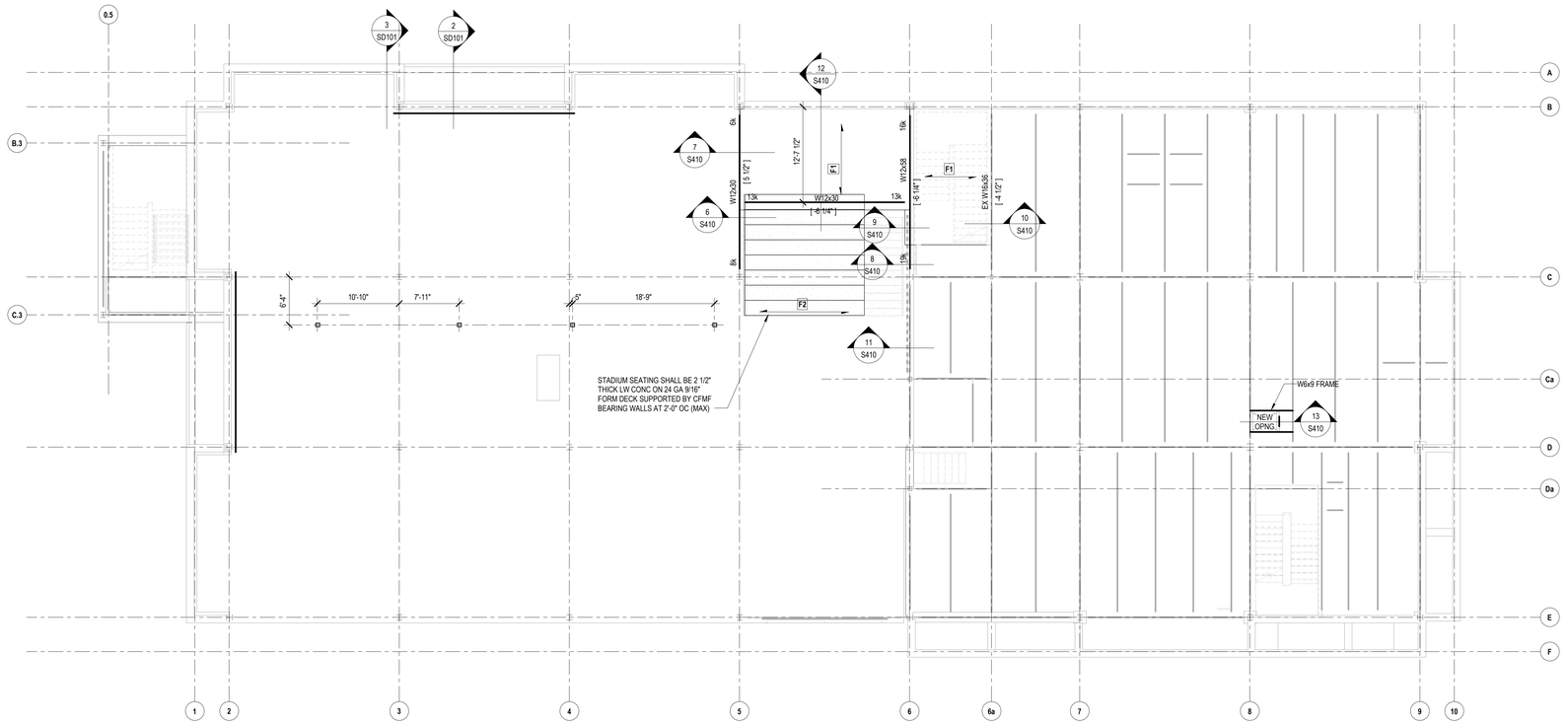
KEYPLAN

Number	Date	Issued For
	02/11/2022	ADDENDUM NO. 1

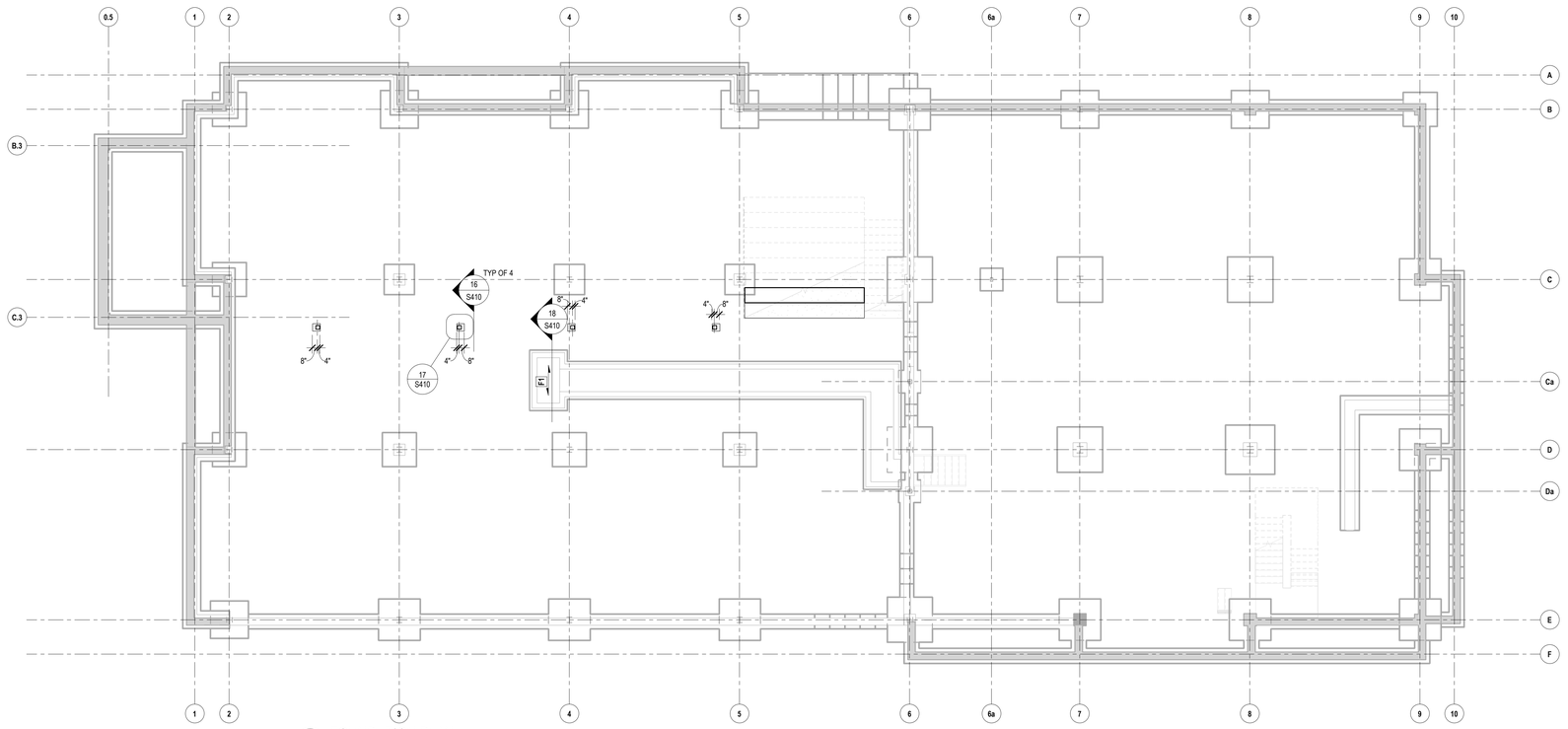
GENERAL NOTES, ABBREVIATIONS AND TYPICAL DETAILS

Date
02/11/2022
Scale
As indicated
Proj. Number
20287.00

Drawing Number
S001



2 S101 FIRST FLOOR FRAMING PLAN
1/8" = 1'-0"



1 S101 FOUNDATION PLAN
1/8" = 1'-0"

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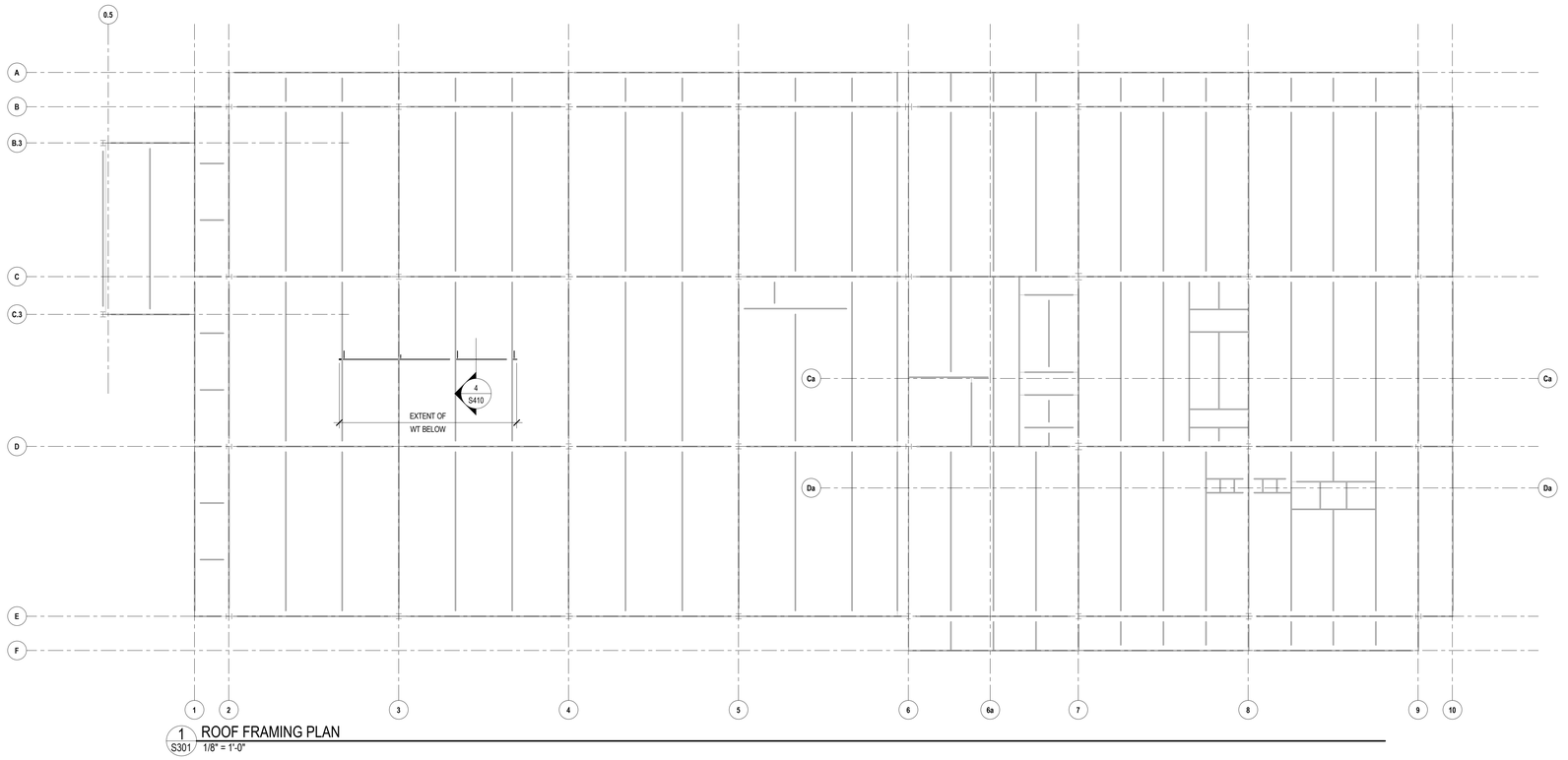
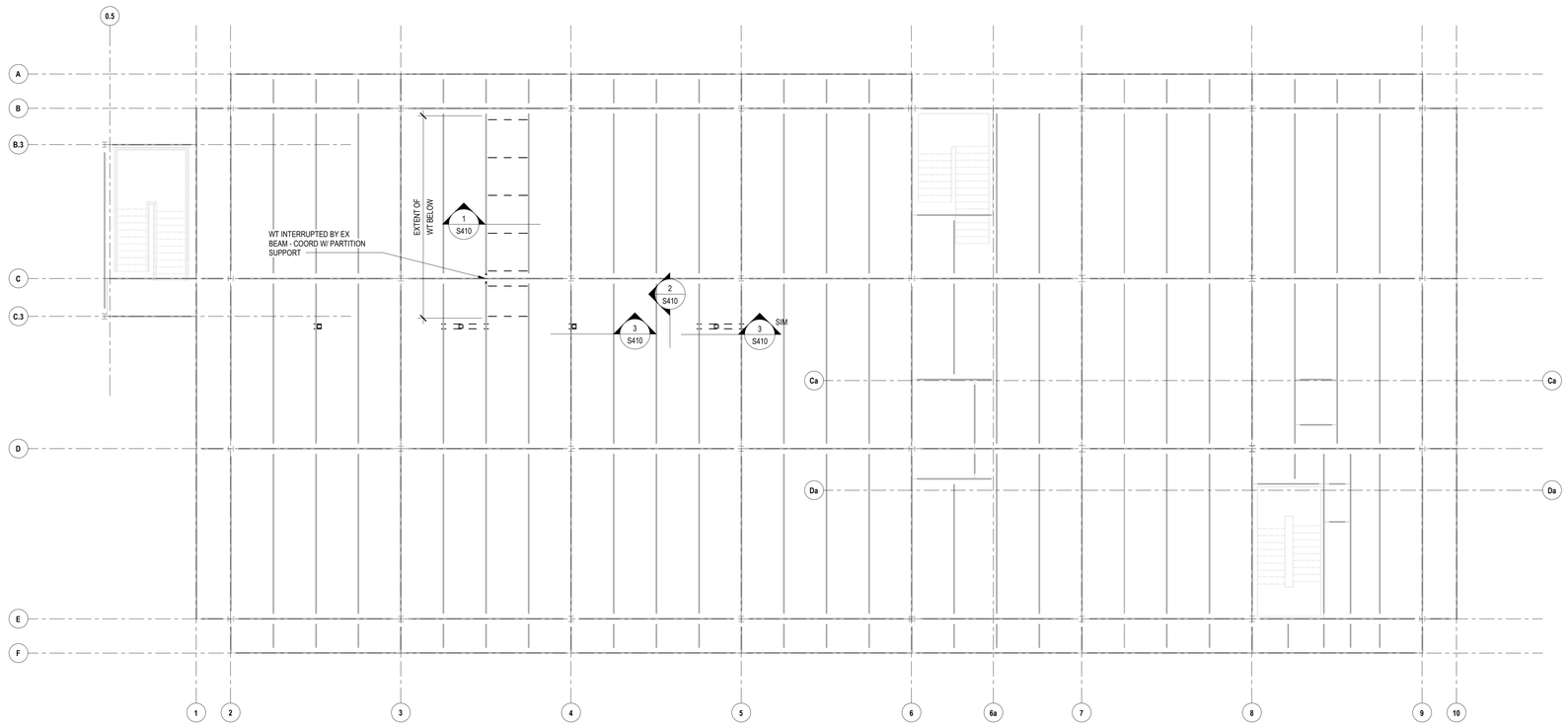
FOUNDATION & FIRST FLOOR FRAMING PLAN

Date
02/11/2022
Scale
1/8" = 1'-0"
Proj. Number
20287.00

Drawing Number
S101



1 ROOF FRAMING PLAN
S301 1/8" = 1'-0"



2 SECOND FLOOR FRAMING PLAN
S301 1/8" = 1'-0"

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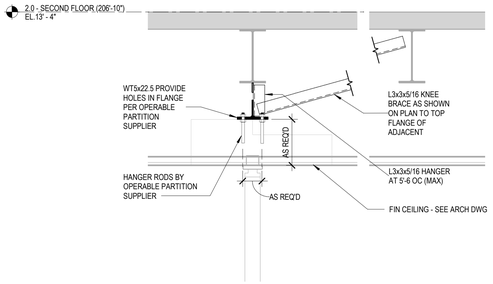
SECOND FLOOR & ROOF FRAMING PLAN

Date
02/11/2022
Scale
1/8" = 1'-0"
Proj. Number
20287.00

Drawing Number
S301



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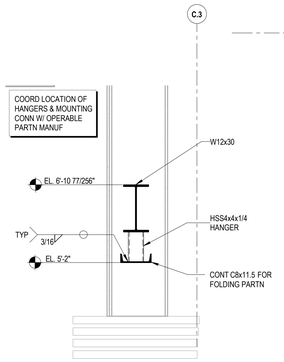

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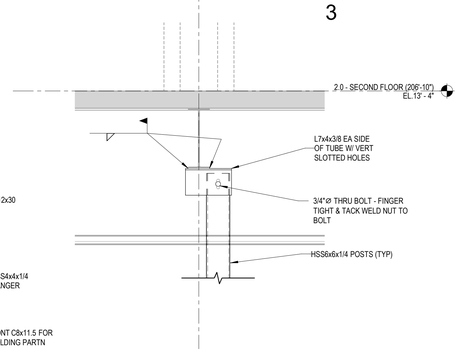

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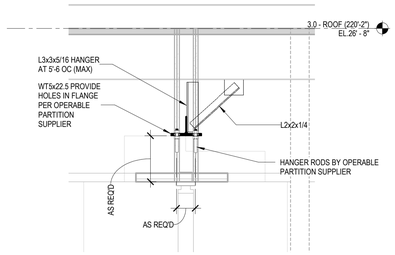

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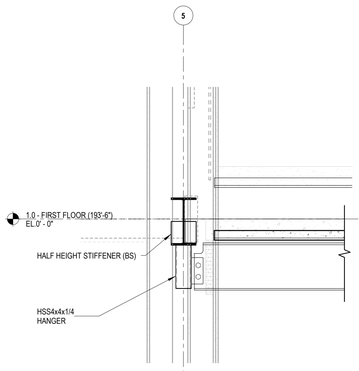

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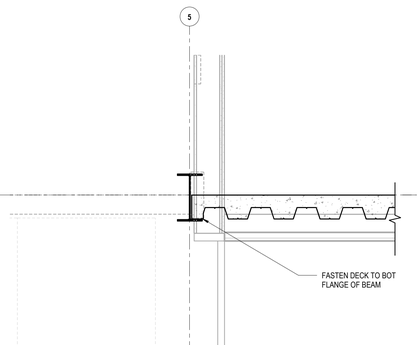

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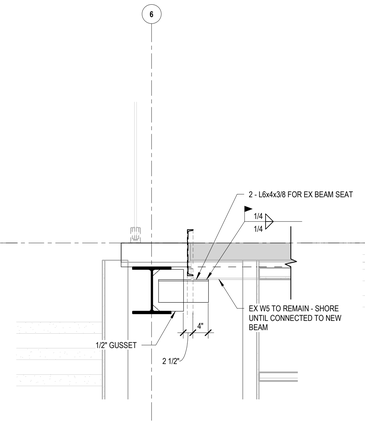

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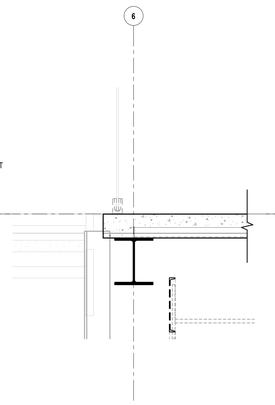

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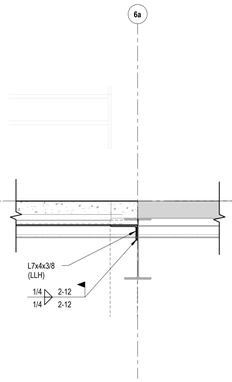

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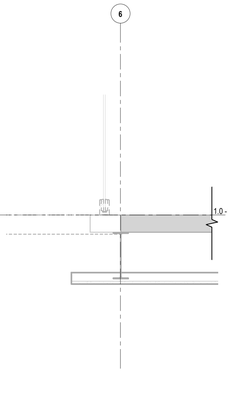

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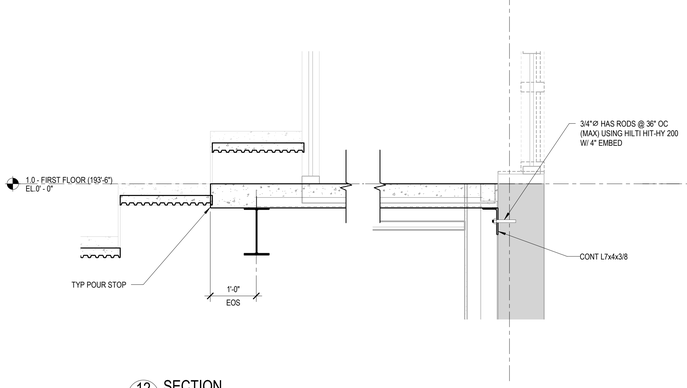

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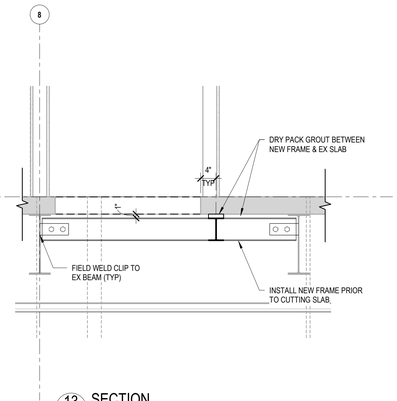

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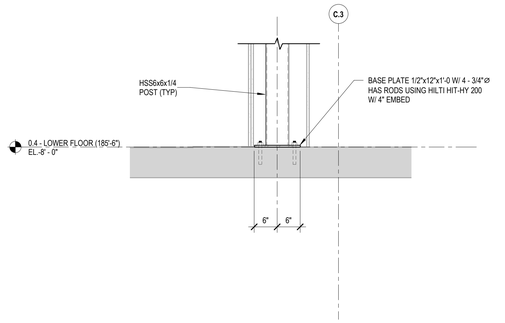

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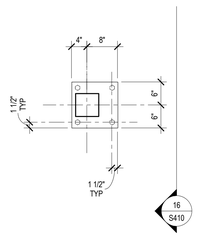

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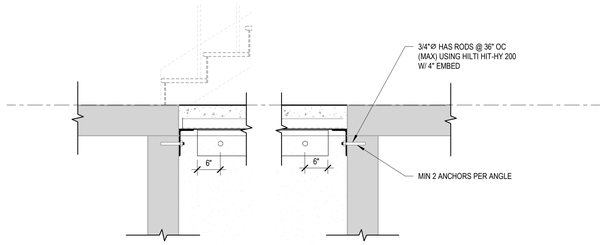

18 SECTION S410 3/4" = 1'-0"

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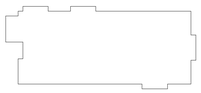

KEYPLAN

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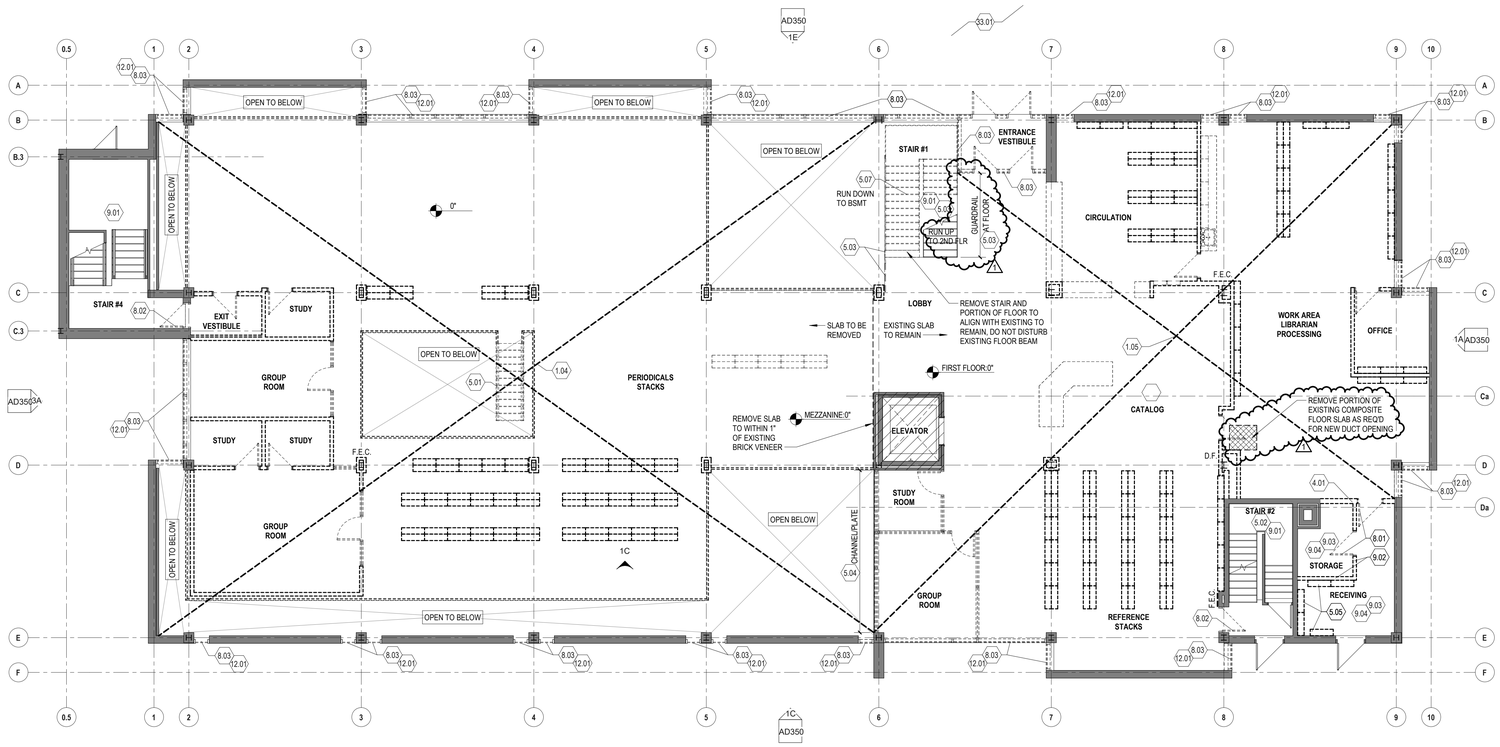
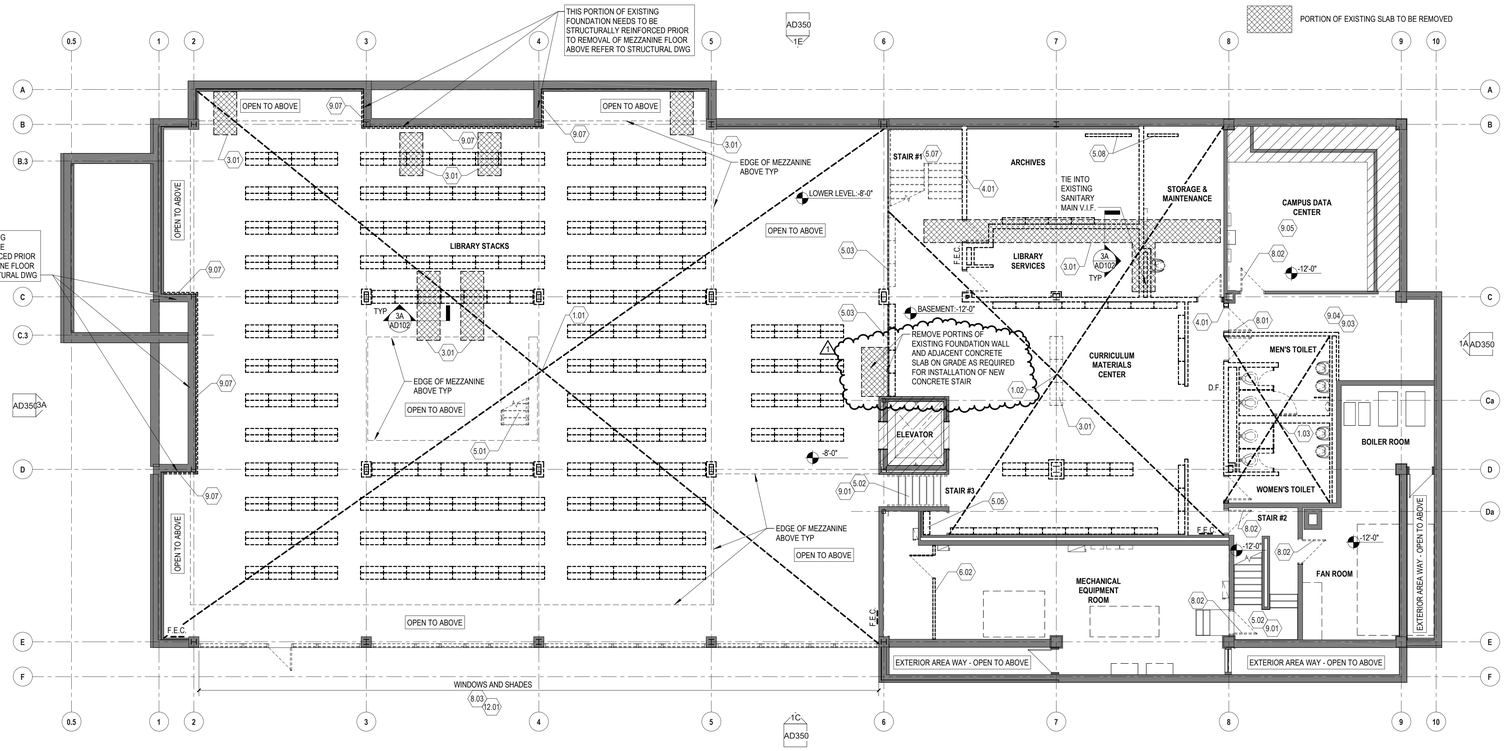
FRAMING DETAILS

Date: 02/11/2022
Scale: 3/4" = 1'-0"
Proj. Number: 20287.00
Drawing Number: S410



1C FIRST FLOOR/ LIBRARY MEZZANINE DEMOLITION PLAN
1/8" = 1'-0"



1E BASEMENT/ LOWER LEVEL DEMOLITION PLAN
1/8" = 1'-0"

DEMOLITION PLAN GRAPHIC LEGEND

- REMOVE EXISTING CONSTRUCTION
- EXISTING CONSTRUCTION TO REMAIN
- EXISTING TO REMAIN - NOT IN SCOPE
- PORTION OF EXISTING SLAB TO BE REMOVED

DEMOLITION GENERAL NOTES

A. REFER TO DIVISION 02 SECTION "STRUCTURE DEMOLITION" AND/OR "SELECTIVE STRUCTURE DEMOLITION" FOR ADDITIONAL DEMOLITION REQUIREMENTS.

B. COORDINATE PROPOSED METHODS AND OPERATIONS OF DEMOLITION WITH OWNER'S DESIGNATED REPRESENTATIVE PRIOR TO START OF DEMOLITION WORK. INCLUDE IN SCHEDULE COORDINATION FOR SHUT-OFF, CAPPING AND CONTINUATION OF UTILITY SERVICES AS REQUIRED.

C. THIS BUILDING CONTAINS THE CENTRAL DATA HUB FOR THIS CAMPUS AND MUST BE PROTECTED AND MAINTAINED IN WORKING CONDITION THROUGHOUT THE DURATION OF THIS DEMOLITION AND CONSTRUCTION PROJECT.

D. CONDUCT DEMOLITION AND DEBRIS REMOVAL IN A SAFE MANNER TO MINIMIZE INTERFERENCE WITH CORRIDORS, HALLS, STAIRS, AND OTHER ADJACENT FACILITIES AND TO AVOID DAMAGE TO SAME. DO NOT CLOSE OR OBSTRUCT TRAFFIC WAYS WITHOUT PERMISSION OF THE OWNER.

E. ERECT TEMPORARY ENCLOSURE(S) AROUND ALL EXTERIOR OPENINGS CREATED IN THE BUILDING. THE BUILDING SHALL BE LEFT WEATHER-TIGHT AND SECURE AT THE END OF EACH WORKDAY.

F. REFER TO MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL DEMOLITION REQUIREMENTS.

G. ALL SALVAGEABLE MATERIAL AND EQUIPMENT SHOWN OR SCHEDULED TO BE REMAIN AS THE PROPERTY OF THE OWNER OR NOT DISCLAIMED BY THE OWNER PRIOR TO THE BEGINNING OF DEMOLITION WORK SHALL BE CAREFULLY REMOVED AND STORED WHERE DIRECTED BY THE OWNER. THE CONTRACTOR SHALL VERIFY WITH THE OWNER ALL ITEMS TO BE SALVAGED.

H. ALL SALVAGEABLE MATERIAL AND EQUIPMENT SCHEDULED TO BE REMOVED AND NOT REUSED AND DISCLAIMED BY THE OWNER SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE TRANSPORTED FROM THE SITE AS THEY ARE REMOVED. STORAGE OR SALE OF REMOVED ITEMS ON SITE WILL NOT BE PERMITTED.

I. VERIFY SAVING AND RE-USE OF ALL MISCELLANEOUS ITEMS AND EQUIPMENT NOT SPECIFICALLY LISTED ON THE DRAWINGS OR IN THE SPECIFICATIONS WITH THE OWNER PRIOR TO DEMOLITION.

J. UNLESS OTHERWISE INDICATED ON THE DRAWINGS OR THE FINISH SCHEDULE, ALL PORTIONS OF THE EXISTING BUILDING (INCLUDING FINISHES) DISTURBED BY DEMOLITION OF EXISTING CONSTRUCTION AND/OR INSTALLATION OF NEW CONSTRUCTION, INCLUDING MECHANICAL AND ELECTRICAL WORK, SHALL BE REPAIRED AS REQUIRED AND RETURNED TO ITS ORIGINAL UNDISTURBED CONDITION OR BETTER.

K. REMOVE ALL EXISTING WALL CONSTRUCTION, MILLWORK, EQUIPMENT, ETC. SHOWN DASHED ON THIS DRAWING IN ITS ENTIRETY TO THE EXTENT SHOWN ON THE DRAWINGS. PARTITIONS SHALL BE REMOVED FROM FLOOR TO UNDERSIDE OF STRUCTURE ABOVE UNLESS OTHERWISE NOTED.

L. AT EXISTING INTERSECTING WALL WHERE ONE WALL HAS BEEN DEMOLISHED, PREPARE NEWLY EXPOSED AREA OF WALL TO MATCH EXISTING ADJACENT SURFACES.

M. EXISTING WALLS INDICATED TO REMAIN ARE FOR PURPOSES OF ECONOMY ONLY. CONTRACTOR MAY ASSUME, IF MORE EXPEDIENT FOR CONSTRUCTION OR LESS EXPENSIVE FOR THE OWNER, THAT EXISTING CONSTRUCTION MAY BE REMOVED AND REPLACED WITH NEW CONSTRUCTION ACCEPTABLE TO THE ARCHITECT AT NO ADDITIONAL COST TO THE OWNER.

N. DO NOT DISTURB EXISTING STRUCTURE TO REMAIN. MINIMIZE DISTURBANCE TO EXISTING SPRAY APPLIED FIREPROOFING ON EXISTING STRUCTURAL STEEL MEMBERS TO REMAIN. DO NOT DISTURB EXISTING ROOF DRAIN PIPING WHERE OCCURRING.

O. DEMOLITION DRAWINGS SHOW APPROXIMATE LAYOUT OF EXISTING PARTITIONS, DOORS, WINDOWS, FURNITURE, ETC. AND ARE NOT INTENDED TO REPRESENT AS-BUILT CONDITIONS. ALL INFORMATION MUST BE VERIFIED ON SITE.

P. REMOVE EXISTING EXTERIOR ALUMINUM STOREFRONT AND ENTRANCE SYSTEMS WHERE INDICATED. REFER TO SHEET AD350 DEMOLITION BUILDING ELEVATIONS FOR ADDITIONAL INFORMATION.

Q. PRIOR TO REMOVAL OF EXISTING MEZZANINE FLOOR SLAB, CERTAIN EXISTING FOUNDATION WALLS NEED TO BE REINFORCED. CONTRACTOR SHALL COORDINATE REINFORCEMENT/ BRACING WORK WITH AND PRIOR TO START OF DEMOLITION OPERATIONS.

DEMOLITION KEYNOTES	
Key Value	Keynote Text
1.01	GUT PORTION OF EXISTING BUILDING. DEMOLITION INCLUDES, BUT IS NOT LIMITED TO, WALLS AND OTHER PARTITIONS AS INDICATED, STRUCTURAL LOAD BEARING BOOK SHELVING SYSTEM, NON-LOAD BEARING BOOK SHELVING UNITS, GYPSUM AND METAL STUD COLUMN ENCLOSURES, SIGNAGE, RAISED LETTERING, PLAQUES, FLOOR FINISHES, METAL HVAC FLOOR DIFFUSER GRATES INCLUDING ASSOCIATED SUPPORTING FRAMES, OVERHEAD HORIZONTAL AND VERTICAL BREAK METAL DUCT AND RACEWAY ENCLOSURES, CEILING SYSTEMS, FIRE EXTINGUISHERS AND CABINETS, WALL MOUNTED LIGHTING, MECHANICAL AND ELECTRICAL SYSTEMS AS INDICATED.
1.02	GUT PORTION OF EXISTING BUILDING. DEMOLITION INCLUDES, BUT IS NOT LIMITED TO, CMU WALLS AND OTHER PARTITIONS AS INDICATED, WALL MOUNTED BOOK SHELVING UNITS, FLOOR MOUNTED BOOK SHELVING UNITS, GYPSUM AND METAL STUD COLUMN ENCLOSURES, SIGNAGE, RAISED LETTERING, PLAQUES, FLOOR FINISHES, CEILING SYSTEMS, DOORS, DOOR FRAMES, DOOR HARDWARE, PLUMBING FIXTURES, FIRE EXTINGUISHERS AND CABINETS, WALL MOUNTED LIGHTING, MECHANICAL AND ELECTRICAL SYSTEMS AS INDICATED.
1.03	WITHIN EXISTING TOILET ROOMS REMOVE ALL EXISTING CONSTRUCTION IN ITS ENTIRETY INCLUDING BUT NOT LIMITED TO, CMU WALLS, WALL TILE, TOILET PARTITIONS, DOORS, DOOR FRAMES, DOOR HARDWARE, CEILING SYSTEMS, TILE FLOOR FINISH INCLUDING THICK MUD-SET, TOILET ACCESSORIES INCLUDING GRAB BARS, HAND DRYERS, DRINKING FOUNTAIN, PLUMBING FIXTURES AND ALL ASSOCIATED PIPING, ELECTRICAL AND HVAC SYSTEMS AS INDICATED.
1.04	GUT PORTION OF EXISTING BUILDING. DEMOLITION INCLUDES BUT IS NOT LIMITED TO, GYPSUM BOARD AND METAL STUD WALLS AND OTHER PARTITIONS AS INDICATED, SIGNAGE, RAISED LETTERING, PLAQUES, INTERIOR ALUMINUM STOREFRONT SYSTEMS, CLERESTORY WINDOWS, GYPSUM BOARD AND METAL STUD COLUMN ENCLOSURES, ENTIRE MEZZANINE STRUCTURAL FLOOR SLAB SYSTEM, FLOOR AND WALL MOUNTED BOOK SHELVING UNITS, FLOOR FINISHES, CEILING SYSTEMS, FIRE EXTINGUISHERS AND CABINETS, WALL MOUNTED LIGHTING, DOORS, DOOR FRAMES, DOOR HARDWARE, METAL AND WOOD GUARDRAIL SYSTEM, WALL MOUNTED MONITORS AND PROJECTORS, MECHANICAL AND ELECTRICAL SYSTEMS AS INDICATED.
1.05	GUT PORTION OF EXISTING BUILDING. DEMOLITION INCLUDES BUT IS NOT LIMITED TO, GYPSUM BOARD AND METAL STUD WALLS AND OTHER PARTITIONS AS INDICATED, SIGNAGE, RAISED LETTERING, PLAQUES, INTERIOR ALUMINUM STOREFRONT SYSTEMS, CLERESTORY WINDOWS, GYPSUM BOARD AND METAL STUD COLUMN ENCLOSURES, BUILT-IN CASEWORK INCLUDING, BASE CABINETS, WALL CABINETS, ASSOCIATED SINKS, FLOOR AND WALL MOUNTED BOOK SHELVING UNITS, FLOOR FINISHES, CEILING SYSTEMS, FIRE EXTINGUISHERS AND CABINETS, DRINKING FOUNTAIN, DOORS, DOOR FRAMES, DOOR HARDWARE, BOOK SECURITY SYSTEM INCLUDING PYLONS, MECHANICAL AND ELECTRICAL SYSTEMS AS INDICATED.
1.06	GUT PORTION OF EXISTING BUILDING. DEMOLITION INCLUDES BUT IS NOT LIMITED TO, GYPSUM BOARD AND METAL STUD WALLS AND OTHER PARTITIONS AS INDICATED, SIGNAGE, RAISED LETTERING, PLAQUES, INTERIOR ALUMINUM STOREFRONT SYSTEMS, CLERESTORY WINDOWS, GYPSUM BOARD AND METAL STUD COLUMN ENCLOSURES, INTERIOR BRICK WORK INCLUDING OVERHEAD ARCHES, BUILT-IN CASEWORK INCLUDING, BASE CABINETS, WALL CABINETS, WALL PANELING, FIXED AND SLIDING MARKERBOARD SYSTEMS, METAL STUD FRAMED-WOOD SHEATHED TIERED FLOOR SEATING SYSTEM, FIXED LECTURE SEATING AND WORKSURFACE SYSTEMS, FLOOR FINISHES INCLUDING ASSOCIATED SUBSTRATE SYSTEMS AND SUB FLOORING, WOOD WALL BASE, CEILING SYSTEMS INCLUDING SOFFITS AND WOOD ACCENT TRIM, ACOUSTIC WALL PANELS, MANUAL AND MOTORIZED PROJECTION SCREENS, CEILING MOUNTED PROJECTORS, FIRE EXTINGUISHERS AND CABINETS, DRINKING FOUNTAINS, DOORS, DOOR FRAMES, DOOR HARDWARE, MECHANICAL AND ELECTRICAL SYSTEMS AS INDICATED.
3.01	SAWCUT AND REMOVE PORTION OF EXISTING CONCRETE SLAB AND EXCAVATE AS REQUIRED TO ACCOMMODATE INSTALLATION OF NEW UNDERSLAB PIPING OR CONDUIT. PIPING AND CONDUIT SIZES TO BE DETERMINED. REFER TO DETAIL 3A/AD102.
4.01	REMOVE PORTION OF EXISTING MASONRY WALL ENTIRELY TO EXTENT SHOWN.
4.02	REMOVE PORTION OF EXISTING MASONRY WALL AND ASSOCIATED FURRING PARTITION AS REQUIRED FOR REMOVAL OF EXISTING DUCTWORK AND UTILITIES AND INSTALLATION OF NEW. PROVIDE STRUCTURAL HEADER LINTEL ABOVE OPENING AS REQUIRED.
5.01	REMOVE EXISTING METAL STAIR ASSEMBLY IN ITS ENTIRETY, INCLUDING STRINGERS, CONCRETE-FILLED METAL STAIR TREADS, AND RAILINGS.
5.02	REMOVE EXISTING WALL MOUNTED HANDRAIL IN ITS ENTIRETY AT STAIR, EXISTING STAIR TO REMAIN.
5.03	REMOVE EXISTING GUARDRAIL ASSEMBLY IN ITS ENTIRETY DOWN TO TOP OF EXISTING CHANNEL/PLATE STRINGER. EXISTING CHANNEL/PLATE STRINGER TO REMAIN. PREPARE SURFACES TO RECEIVE NEW GUARDRAIL ASSEMBLY
5.04	REMOVE EXISTING STEEL CHANNEL AND STEEL PLATE ASSEMBLY ATTACHED TO EDGE OF EXISTING FLOOR SLAB. EXISTING FLOOR SLAB TO REMAIN.
5.05	REMOVE EXISTING WALL OR FLOOR MOUNTED METAL BOOK SHELVING UNITS.
5.06	REMOVE EXISTING OVERHEAD STEEL CHANNEL AND SUPPORTING STEEL HANGER ANGLES AND BRACING IN ITS ENTIRETY.
5.07	REMOVE EXISTING STEEL STAIR RUN IN ITS ENTIRETY FROM BASEMENT UP TO FIRST FLOOR, INCLUDING LOWER LANDING. TEMPORARY SHORE END OF FIRST FLOOR LANDING AFTER SUPPORTING STRINGER IS REMOVED.
5.08	REMOVE EXISTING STEEL TRENCH GRATING AND TRENCH BODY IN ITS ENTIRETY. PREPARE OUTLET PIPE TO RECEIVE NEW CLEAN OUT ASSEMBLY, REFER TO PLUMBING DWGS.
6.02	REMOVE EXISTING WOOD FRAMED PARTITION WITH HEAVY WIRE SCREEN INCLUDING ASSOCIATED DOOR IN ITS ENTIRETY.
8.01	REMOVE EXISTING DOOR, FRAME, AND HARDWARE IN ITS ENTIRETY.
8.02	REMOVE EXISTING DOOR HARDWARE AND DOOR, EXISTING FRAME TO REAMIN.
8.03	REMOVE EXISTING ALUMINUM WINDOW FRAMING AND GLAZING SYSTEM INCLUDING OPERABLE WINDOW UNITS AND DOORS AND HARDWARE WHERE OCCURRING IN THEIR ENTIRETY.
9.01	REMOVE EXISTING FLOOR FINISH AT ALL ASSOCIATED STAIR STEPS AND LANDINGS, EXISTING STAIR TO REMAIN.
9.02	REMOVE PORTION OF EXISTING PARTITION AS INDICATED.
9.03	REMOVE EXISTING RESILIENT FLOOR FINISH AND WALL BASE WITHIN THIS SPACE.
9.04	REMOVE EXISTING SUSPENDED ACOUSTICAL CEILING SYSTEM IN ITS ENTIRETY WITHIN THIS SPACE OR TO EXTENTS INDICATED.
9.05	CAREFULLY REMOVE AND STORE FOR RE-USE PORTIONS OF EXISTING SUSPENDED CEILING PANELS AND GRID AS REQUIRED FOR INSTALLATION OF NEW PRE-ACTION SPRINKLER SYSTEM.
9.06	REMOVE EXISTING EXTERIOR SUSPENDED CEMENTITIOUS PLASTER CEILING SOFFIT INCLUING BUT NOT LIMITED TO SUSPENSION CABLES, STEEL FRAMING, PERIMETER METAL TRIM, INTERMEDIATE METAL TRIM, LIGHT FIXTURES AND ASSOCIATED SUPPORTS.
9.07	REMOVE EXISTING WALL FURRING FULL HEIGHT TO EXTENT SHOWN.
12.01	REMOVE EXISTING WINDOW SHADING SYSTEM IN ITS ENTIRETY INCLUDING BUT NOT LIMITED TO; VERTICAL BLINDS, ROLLER SHADES, BLACK-OUT SHADES, ALL ASSOCIATED HEAD TRACKS, ROLL ENCLOSURES, FASCIAS, JAMB TRACKS, CORDS, CORD KEEPERS, ETC.
33.01	REMOVE PORTIONS OF EXISTING SIDEWALKS AND LANDSCAPING AS REQUIRED FOR NEW SITEWORK. SEE 1C/AD102 FOR ADDITIONAL INFORMATION.

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KEYPLAN

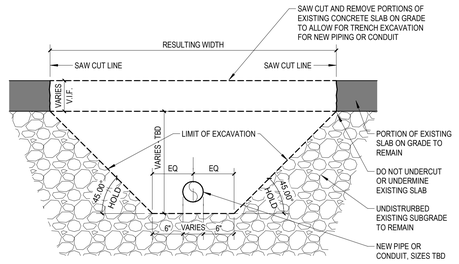
Number	Date	Issued For
1	02/11/2022 01/27/2022	ADDENDUM NO. 1 BID PACKAGE NO. 1

BASEMENT/ LOWER LEVEL AND FIRST FLOOR DEMOLITION PLANS

Date 01/27/2022
Scale As indicated
Proj. Number 20287.10
Drawing Number AD101

REFER TO L101 - SITE DEMOLITION AND PREPARATION

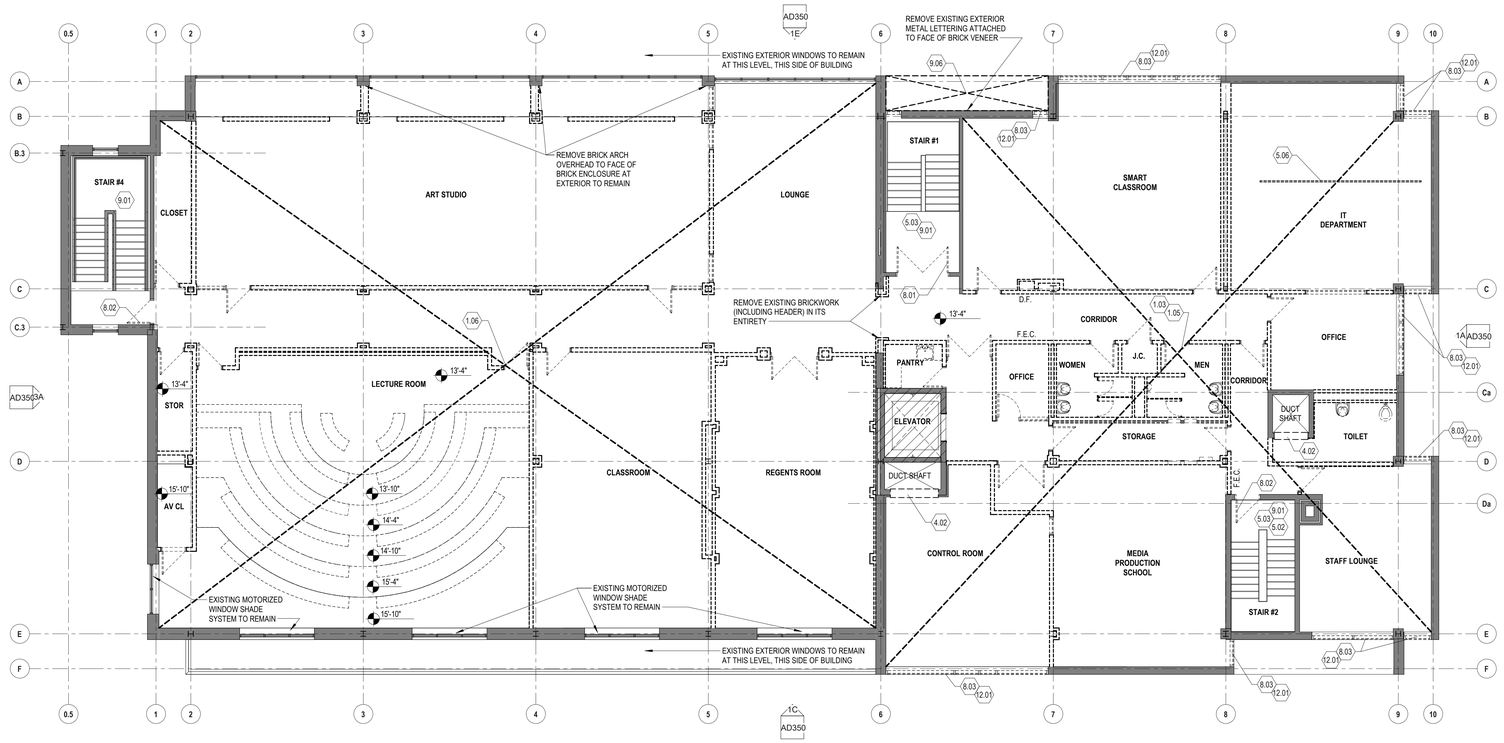
1C/AD102



3A EXISTING SLAB REMOVAL
1" = 1'-0"

DEMOLITION PLAN GRAPHIC LEGEND

- REMOVE EXISTING CONSTRUCTION
- EXISTING CONSTRUCTION TO REMAIN
- EXISTING TO REMAIN - NOT IN SCOPE
- PORTION OF EXISTING SLAB TO BE REMOVED



1E SECOND FLOOR DEMOLITION PLAN
1/8" = 1'-0"

DEMOLITION GENERAL NOTES

A. REFER TO DIVISION 02 SECTION "STRUCTURE DEMOLITION" AND/OR "SELECTIVE STRUCTURE DEMOLITION" FOR ADDITIONAL DEMOLITION REQUIREMENTS.

B. COORDINATE PROPOSED METHODS AND OPERATIONS OF DEMOLITION WITH OWNER'S DESIGNATED REPRESENTATIVE PRIOR TO START OF DEMOLITION WORK. INCLUDE IN SCHEDULE COORDINATION FOR SHUT-OFF, CAPPING AND CONTINUATION OF UTILITY SERVICES AS REQUIRED.

C. THIS BUILDING CONTAINS THE CENTRAL DATA HUB FOR THIS CAMPUS AND MUST BE PROTECTED AND MAINTAINED IN WORKING CONDITION THROUGHOUT THE DURATION OF THIS DEMOLITION AND CONSTRUCTION PROJECT.

D. CONDUCT DEMOLITION AND DEBRIS REMOVAL IN A SAFE MANNER TO MINIMIZE INTERFERENCE WITH CORRIDORS, HALLS, STAIRS, AND OTHER ADJACENT FACILITIES AND TO AVOID DAMAGE TO SAME. DO NOT CLOSE OR OBSTRUCT TRAFFIC WAYS WITHOUT PERMISSION OF THE OWNER.

E. ERECT TEMPORARY ENCLOSURE(S) AROUND ALL EXTERIOR OPENINGS CREATED IN THE BUILDING. THE BUILDING SHALL BE LEFT WEATHER-TIGHT AND SECURE AT THE END OF EACH WORKDAY.

F. REFER TO MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL DEMOLITION REQUIREMENTS.

G. ALL SALVAGEABLE MATERIAL AND EQUIPMENT SHOWN OR SCHEDULED TO BE REMAIN AS THE PROPERTY OF THE OWNER OR NOT DISCLAIMED BY THE OWNER PRIOR TO THE BEGINNING OF DEMOLITION WORK SHALL BE CAREFULLY REMOVED AND STORED WHERE DIRECTED BY THE OWNER. THE CONTRACTOR SHALL VERIFY WITH THE OWNER ALL ITEMS TO BE SALVAGED.

H. ALL SALVAGEABLE MATERIAL AND EQUIPMENT SCHEDULED TO BE REMOVED AND NOT REUSED AND DISCLAIMED BY THE OWNER SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE TRANSPORTED FROM THE SITE AS THEY ARE REMOVED. STORAGE OR SALE OF REMOVED ITEMS ON SITE WILL NOT BE PERMITTED.

I. VERIFY SAVING AND RE-USE OF ALL MISCELLANEOUS ITEMS AND EQUIPMENT NOT SPECIFICALLY LISTED ON THE DRAWINGS OR IN THE SPECIFICATIONS WITH THE OWNER PRIOR TO DEMOLITION.

J. UNLESS OTHERWISE INDICATED ON THE DRAWINGS OR THE FINISH SCHEDULE, ALL PORTIONS OF THE EXISTING BUILDING (INCLUDING FINISHES) DISTURBED BY DEMOLITION OF EXISTING CONSTRUCTION AND/OR INSTALLATION OF NEW CONSTRUCTION, INCLUDING MECHANICAL AND ELECTRICAL WORK, SHALL BE REPAIRED AS REQUIRED AND RETURNED TO ITS ORIGINAL UNDISTURBED CONDITION OR BETTER.

K. REMOVE ALL EXISTING WALL CONSTRUCTION, MILLWORK, EQUIPMENT, ETC. SHOWN DASHED ON THIS DRAWING IN ITS ENTIRETY TO THE EXTENT SHOWN ON THE DRAWINGS. PARTITIONS SHALL BE REMOVED FROM FLOOR TO UNDERSIDE OF STRUCTURE ABOVE UNLESS OTHERWISE NOTED.

L. AT EXISTING INTERSECTING WALL WHERE ONE WALL HAS BEEN DEMOLISHED, PREPARE NEWLY EXPOSED AREA OF WALL TO MATCH EXISTING ADJACENT SURFACES.

M. EXISTING WALLS INDICATED TO REMAIN ARE FOR PURPOSES OF ECONOMY ONLY. CONTRACTOR MAY ASSUME, IF MORE EXPEDIENT FOR CONSTRUCTION OR LESS EXPENSIVE FOR THE OWNER, THAT EXISTING CONSTRUCTION MAY BE REMOVED AND REPLACED WITH NEW CONSTRUCTION ACCEPTABLE TO THE ARCHITECT AT NO ADDITIONAL COST TO THE OWNER.

N. DO NOT DISTURB EXISTING STRUCTURE TO REMAIN. MINIMIZE DISTURBANCE TO EXISTING SPRAY APPLIED FIREPROOFING ON EXISTING STRUCTURAL STEEL MEMBERS TO REMAIN. DO NOT DISTURB EXISTING ROOF DRAIN PIPING WHERE OCCURRING.

O. DEMOLITION DRAWINGS SHOW APPROXIMATE LAYOUT OF EXISTING PARTITIONS, DOORS, WINDOWS, FURNITURE, ETC. AND ARE NOT INTENDED TO REPRESENT AS-BUILT CONDITIONS. ALL INFORMATION MUST BE VERIFIED ON SITE.

P. REMOVE EXISTING EXTERIOR ALUMINUM STOREFRONT AND ENTRANCE SYSTEMS WHERE INDICATED. REFER TO SHEET AD350 DEMOLITION BUILDING ELEVATIONS FOR ADDITIONAL INFORMATION.

Q. PRIOR TO REMOVAL OF EXISTING MEZZANINE FLOOR SLAB, CERTAIN EXISTING FOUNDATION WALLS NEED TO BE REINFORCED. CONTRACTOR SHALL COORDINATE REINFORCEMENT/ BRACING WORK WITH AND PRIOR TO START OF DEMOLITION OPERATIONS.

DEMOLITION KEYNOTES	
Key Value	Keynote Text
1.01	GUT PORTION OF EXISTING BUILDING. DEMOLITION INCLUDES, BUT IS NOT LIMITED TO, WALLS AND OTHER PARTITIONS AS INDICATED, STRUCTURAL LOAD BEARING BOOK SHELVING SYSTEM, NON-LOAD BEARING BOOK SHELVING UNITS, GYPSUM AND METAL STUD COLUMN ENCLOSURES, SIGNAGE, RAISED LETTERING, PLAQUES, FLOOR FINISHES, METAL HVAC FLOOR DIFFUSER GRATES INCLUDING ASSOCIATED SUPPORTING FRAMES, OVERHEAD HORIZONTAL AND VERTICAL BREAK METAL DUCT AND RACEWAY ENCLOSURES, CEILING SYSTEMS, FIRE EXTINGUISHERS AND CABINETS, WALL MOUNTED LIGHTING, MECHANICAL AND ELECTRICAL SYSTEMS AS INDICATED.
1.02	GUT PORTION OF EXISTING BUILDING. DEMOLITION INCLUDES, BUT IS NOT LIMITED TO, CMU WALLS AND OTHER PARTITIONS AS INDICATED, WALL MOUNTED BOOK SHELVING UNITS, FLOOR MOUNTED BOOK SHELVING UNITS, GYPSUM AND METAL STUD COLUMN ENCLOSURES, SIGNAGE, RAISED LETTERING, PLAQUES, FLOOR FINISHES, CEILING SYSTEMS, DOORS, DOOR FRAMES, DOOR HARDWARE, PLUMBING FIXTURES, FIRE EXTINGUISHERS AND CABINETS, WALL MOUNTED LIGHTING, MECHANICAL AND ELECTRICAL SYSTEMS AS INDICATED.
1.03	WITHIN EXISTING TOILET ROOMS REMOVE ALL EXISTING CONSTRUCTION IN ITS ENTIRETY INCLUDING BUT NOT LIMITED TO, CMU WALLS, WALL TILE, TOILET PARTITIONS, DOORS, DOOR FRAMES, DOOR HARDWARE, CEILING SYSTEMS, TILE FLOOR FINISH INCLUDING THICK MUD-SET, TOILET ACCESSORIES INCLUDING GRAB BARS, HAND DRYERS, DRINKING FOUNTAIN, PLUMBING FIXTURES AND ALL ASSOCIATED PIPING, ELECTRICAL AND HVAC SYSTEMS AS INDICATED.
1.04	GUT PORTION OF EXISTING BUILDING. DEMOLITION INCLUDES BUT IS NOT LIMITED TO, GYPSUM BOARD AND METAL STUD WALLS AND OTHER PARTITIONS AS INDICATED, SIGNAGE, RAISED LETTERING, PLAQUES, INTERIOR ALUMINUM STOREFRONT SYSTEMS, CLERESTORY WINDOWS, GYPSUM BOARD AND METAL STUD COLUMN ENCLOSURES, ENTIRE MEZZANINE STRUCTURAL FLOOR SLAB SYSTEM, FLOOR AND WALL MOUNTED BOOK SHELVING UNITS, FLOOR FINISHES, CEILING SYSTEMS, FIRE EXTINGUISHERS AND CABINETS, WALL MOUNTED LIGHTING, DOORS, DOOR FRAMES, DOOR HARDWARE, METAL AND WOOD GUARDRAIL SYSTEM, WALL MOUNTED MONITORS AND PROJECTORS, MECHANICAL AND ELECTRICAL SYSTEMS AS INDICATED.
1.05	GUT PORTION OF EXISTING BUILDING. DEMOLITION INCLUDES BUT IS NOT LIMITED TO, GYPSUM BOARD AND METAL STUD WALLS AND OTHER PARTITIONS AS INDICATED, SIGNAGE, RAISED LETTERING, PLAQUES, INTERIOR ALUMINUM STOREFRONT SYSTEMS, CLERESTORY WINDOWS, GYPSUM BOARD AND METAL STUD COLUMN ENCLOSURES, BUILT-IN CASEWORK INCLUDING, BASE CABINETS, WALL CABINETS, ASSOCIATED SINKS, FLOOR AND WALL MOUNTED BOOK SHELVING UNITS, FLOOR FINISHES, CEILING SYSTEMS, FIRE EXTINGUISHERS AND CABINETS, DRINKING FOUNTAIN, DOORS, DOOR FRAMES, DOOR HARDWARE, BOOK SECURITY SYSTEM INCLUDING PYLONS, MECHANICAL AND ELECTRICAL SYSTEMS AS INDICATED.
1.06	GUT PORTION OF EXISTING BUILDING. DEMOLITION INCLUDES BUT IS NOT LIMITED TO, GYPSUM BOARD AND METAL STUD WALLS AND OTHER PARTITIONS AS INDICATED, SIGNAGE, RAISED LETTERING, PLAQUES, INTERIOR ALUMINUM STOREFRONT SYSTEMS, CLERESTORY WINDOWS, GYPSUM BOARD AND METAL STUD COLUMN ENCLOSURES, BRICK COLUMN ENCLOSURES, INTERIOR BRICK WORK INCLUDING OVERHEAD ARCHES, BUILT-IN CASEWORK INCLUDING, BASE CABINETS, WALL CABINETS, WALL PANELING, FIXED AND SLIDING MARKERBOARD SYSTEMS, METAL STUD FRAMED-WOOD SHEATHED TIERED FLOOR SEATING SYSTEM, FIXED LECTURE SEATING AND WORKSURFACE SYSTEMS, FLOOR FINISHES INCLUDING ASSOCIATED SUBSTRATE SYSTEMS AND SUB FLOORING, WOOD WALL BASE, CEILING SYSTEMS INCLUDING SOFFITS AND WOOD ACCENT TRIM, ACOUSTIC WALL PANELS, MANUAL AND MOTORIZED PROJECTION SCREENS, CEILING MOUNTED PROJECTORS, FIRE EXTINGUISHERS AND CABINETS, DRINKING FOUNTAINS, DOORS, DOOR FRAMES, DOOR HARDWARE, MECHANICAL AND ELECTRICAL SYSTEMS AS INDICATED.
3.01	SAWCUT AND REMOVE PORTION OF EXISTING CONCRETE SLAB AND EXCAVATE AS REQUIRED TO ACCOMMODATE INSTALLATION OF NEW UNDERSLAB PIPING OR CONDUIT. PIPING AND CONDUIT SIZES TO BE DETERMINED. REFER TO DETAIL 3/AD102.
4.01	REMOVE PORTION OF EXISTING MASONRY WALL ENTIRELY TO EXTENT SHOWN.
4.02	REMOVE PORTION OF EXISTING MASONRY WALL AND ASSOCIATED FURRING PARTITION AS REQUIRED FOR REMOVAL OF EXISTING DUCTWORK AND UTILITIES AND INSTALLATION OF NEW. PROVIDE STRUCTURAL HEADER LINTEL ABOVE OPENING AS REQUIRED.
5.01	REMOVE EXISTING METAL STAIR ASSEMBLY IN ITS ENTIRETY, INCLUDING STRINGERS, CONCRETE-FILLED METAL STAIR TREADS, AND RAILINGS.
5.02	REMOVE EXISTING WALL MOUNTED HANDRAIL IN ITS ENTIRETY AT STAIR. EXISTING STAIR TO REMAIN.
5.03	REMOVE EXISTING GUARDRAIL ASSEMBLY IN ITS ENTIRETY DOWN TO TOP OF EXISTING CHANNEL/PLATE STRINGER. EXISTING CHANNEL/PLATE STRINGER TO REMAIN. PREPARE SURFACES TO RECEIVE NEW GUARDRAIL ASSEMBLY.
5.04	REMOVE EXISTING STEEL CHANNEL AND STEEL PLATE ASSEMBLY ATTACHED TO EDGE OF EXISTING FLOOR SLAB. EXISTING FLOOR SLAB TO REMAIN.
5.05	REMOVE EXISTING WALL OR FLOOR MOUNTED METAL BOOK SHELVING UNITS.
5.06	REMOVE EXISTING OVERHEAD STEEL CHANNEL AND SUPPORTING STEEL HANGER ANGLES AND BRACING IN ITS ENTIRETY.
5.07	REMOVE EXISTING STEEL STAIR RUN IN ITS ENTIRETY FROM BASEMENT UP TO FIRST FLOOR, INCLUDING LOWER LANDING. TEMPORARY SHORE END OF FIRST FLOOR LANDING AFTER SUPPORTING STRINGER IS REMOVED.
5.08	REMOVE EXISTING STEEL TRENCH GRATING AND TRENCH BODY IN ITS ENTIRETY. PREPARE OUTLET PIPE TO RECEIVE NEW CLEAN OUT ASSEMBLY; REFER TO PLUMBING DWGS.
6.02	REMOVE EXISTING WOOD FRAMED PARTITION WITH HEAVY WIRE SCREEN INCLUDING ASSOCIATED DOOR IN ITS ENTIRETY.
8.01	REMOVE EXISTING DOOR, FRAME, AND HARDWARE IN ITS ENTIRETY.
8.02	REMOVE EXISTING DOOR HARDWARE AND DOOR; EXISTING FRAME TO REAMIN.
8.03	REMOVE EXISTING ALUMINUM WINDOW FRAMING AND GLAZING SYSTEM INCLUDING OPERABLE WINDOW UNITS AND DOORS AND HARDWARE WHERE OCCURRING IN THEIR ENTIRETY.
9.01	REMOVE EXISTING FLOOR FINISH AT ALL ASSOCIATED STAIR STEPS AND LANDINGS, EXISTING STAIR TO REMAIN.
9.02	REMOVE PORTION OF EXISTING PARTITION AS INDICATED.
9.03	REMOVE EXISTING RESILIENT FLOOR FINISH AND WALL BASE WITHIN THIS SPACE.
9.04	REMOVE EXISTING SUSPENDED ACOUSTICAL CEILING SYSTEM IN ITS ENTIRETY WITHIN THIS SPACE OR TO EXTENTS INDICATED.
9.05	CAREFULLY REMOVE AND STORE FOR RE-USE PORTIONS OF EXISTING SUSPENDED CEILING PANELS AND GRID AS REQUIRED FOR INSTALLATION OF NEW PRE-ACTION SPRINKLER SYSTEM.
9.06	REMOVE EXISTING EXTERIOR SUSPENDED CEMENTITIOUS PLASTER CEILING SOFFIT INCLUING BUT NOT LIMITED TO SUSPENSION CABLES, STEEL FRAMING, PERIMETER METAL TRIM, INTERMEDIATE METAL TRIM, LIGHT FIXTURES AND ASSOCIATED SUPPORTS.
9.07	REMOVE EXISTING WALL FURRING FULL HEIGHT TO EXTENT SHOWN.
12.01	REMOVE EXISTING WINDOW SHADING SYSTEM IN ITS ENTIRETY INCLUDING BUT NOT LIMITED TO; VERTICAL BLINDS, ROLLER SHADES, BLACK-OUT SHADES, ALL ASSOCIATED HEAD TRACKS, ROLL ENCLOSURES, FASCIAS, JAMB TRACKS, CORDS, CORD KEEPERS, ETC.
33.01	REMOVE PORTIONS OF EXISTING SIDEWALKS AND LANDSCAPING AS REQUIRED FOR NEW SITEWORK. SEE 1C/AD102 FOR ADDITIONAL INFORMATION.

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KEYPLAN

Number	Date	Issued For
		PROGRESS PRINT NOT FOR CONSTRUCTION
1	02/11/2022	ADDENDUM NO. 1
	01/27/2022	BID PACKAGE NO. 1

SECOND FLOOR DEMOLITION PLAN

Date 01/27/2022
Scale As indicated
Proj. Number 20287.10
Drawing Number AD102