GENERAL

GOVERNING CODE: 2022 CONNECTICUT STATE BUILDING CODE. (2021 INTERNATIONAL BUILDING CODE).

DESIGN LOADS: BURLINGTON, CT

ROOF LOAD:

ROOF SNOW LOAD CRITERIA: Pg = 35 PSF, Ce = 1.0 AND Is = 1.0, CI= 1.0 WITH INCREASES FOR SNOW DRIFTING, UNBALANCES AND SLIDING PER SECTION 1608 (2021 IBC).

MINIMUM ROOF LIVE LOAD = 30 PSF

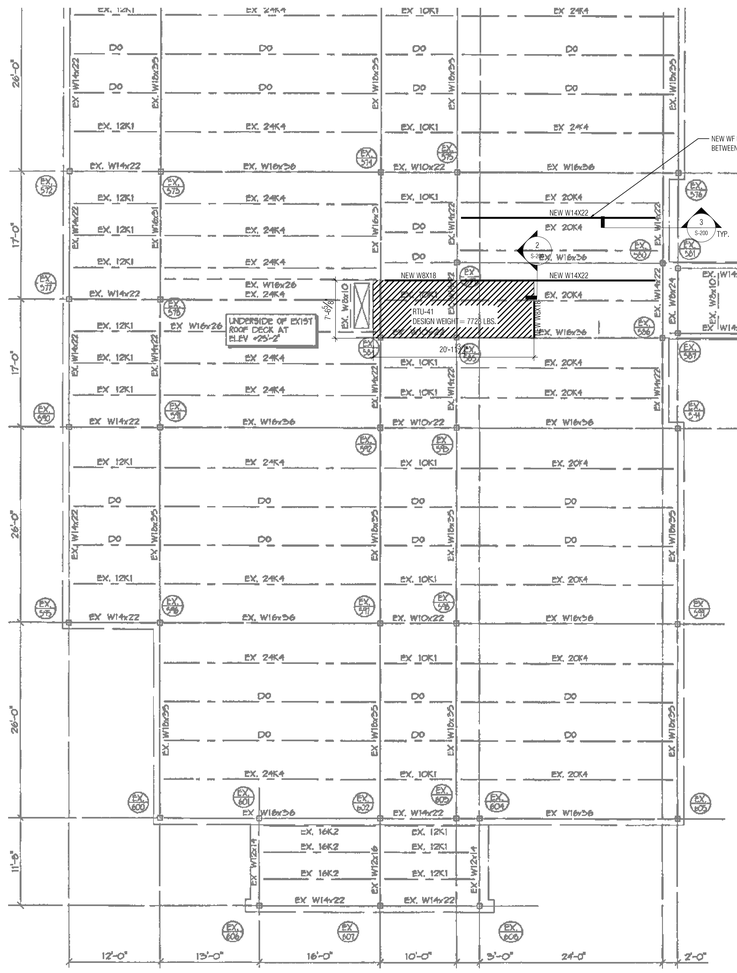
1. SHOULD ANY OF THE DETAILED INSTRUCTIONS SHOWN ON THE PLANS CONFLICT WITH THE GENERAL STRUCTURAL NOTES, THE STRICTEST PROVISION SHALL GOVERN.
2. LOADS, OPENINGS AND STRUCTURE IN ANY WAY RELATED TO REQUIREMENTS OF OTHER (NON-STRUCTURAL) DISCIPLINES ARE SHOWN FOR BIDDING PURPOSES ONLY. THE CONTRACTOR SHALL OBTAIN FROM THE HEATING AND VENTILATING, ELECTRICAL, PLUMBING AND OTHER SUBCONTRACTORS THE FINAL APPROVED SIZE AND LOCATION OF ALL OPENINGS AND WORK TO BE PROVIDED FOR THEIR TRADE IN ROOFS, FLOORS AND WALLS, WHETHER SHOWN OR NOT SHOWN ON STRUCTURAL DRAWINGS. CONTRACTOR SHALL BE RESPONSIBLE FOR TRANSMISSION OF REQUIREMENTS, LOCATIONS AND DETAILS TO STRUCTURAL SUBCONTRACTORS. EXCESS COST RELATED TO VARIATION IN MECHANICAL REQUIREMENTS ARE NOT TO BE BORNE BY THE OWNER.
3. MECHANICAL EQUIPMENT WEIGHTS USED IN DESIGN OF SUPPORTING ELEMENTS HAVE BEEN INDICATED ON THE DRAWINGS. CONTRACTOR SHALL NOTIFY THE ARCHITECT PRIOR TO INSTALLATION IF ACTUAL WEIGHT EXCEEDS WEIGHT SHOWN ON DRAWINGS.
4. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO FOLLOW ALL APPLICABLE SAFETY CODES AND REGULATIONS DURING ALL PHASES OF CONSTRUCTION.
5. SHOP DRAWINGS ARE TO BE CHECKED BY THE CONTRACTOR AND SUBCONTRACTOR AND BEAR CHECKER'S INITIALS BEFORE BEING SUBMITTED TO THE ARCHITECT FOR APPROVAL.
6. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS, ANGLES AND EXISTING CONDITIONS BEFORE PROCEEDING WITH ANY WORK.
7. THE CONTRACTOR MAY USE ALTERNATE CHICAGO CLAMP SYSTEM IN LIEU OF STRUCTURAL STEEL OPTION PROVIDED

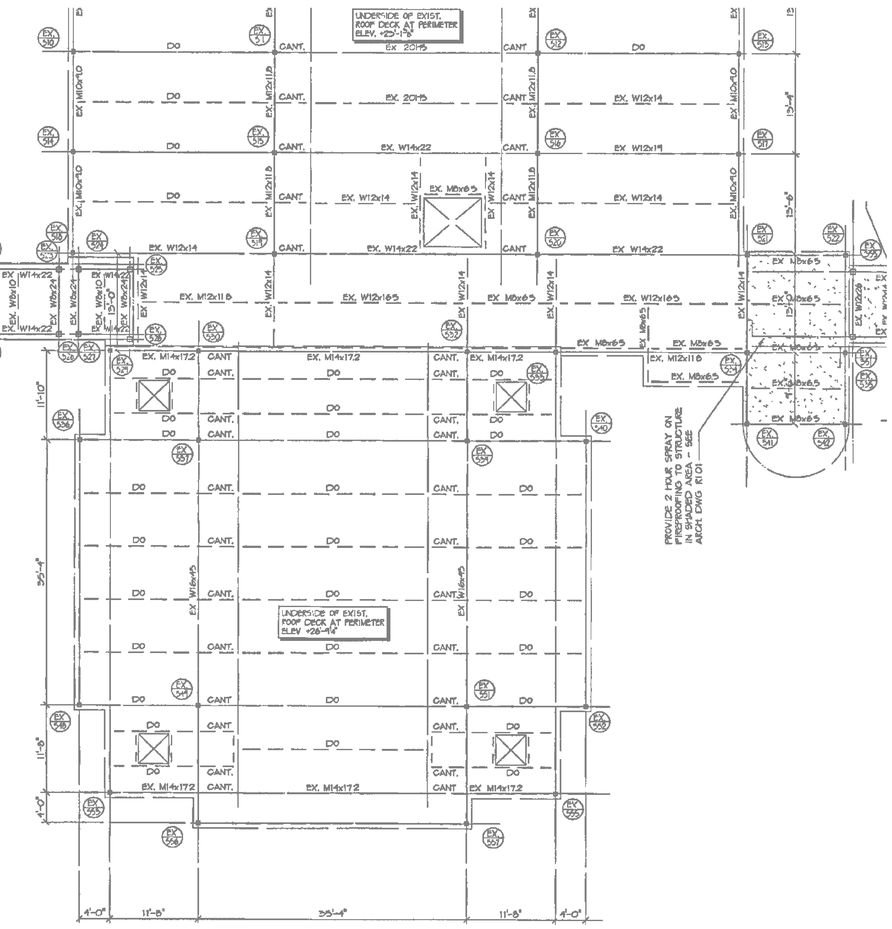
STRUCTURAL STEEL

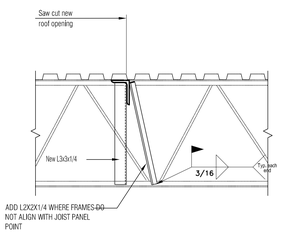
MATERIALS:

STRUCTURAL STEEL	ASTM A 36
ALL W SHAPES	ASTM A 992, GR.50
STRUCTURAL STEEL PIPE	ASTM A53, GRADE C
BOLTS	ASTM A325
WELDING ELECTRODE	ASTM E 70

1. DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL SHALL CONFORM TO CURRENT AMERICAN INSTITUTE OF STEEL CONSTRUCTION SPECIFICATION.
2. WELDING SHALL CONFORM TO THE CODE FOR "ARC AND GAS WELDING IN BUILDING CONSTRUCTION" OF THE AMERICAN WELDING SOCIETY.
3. ALL WELDING SHALL BE DONE BY A CERTIFIED WELDER IN ACCORDANCE WITH A.W.S. STANDARDS.
4. EXISTING STEEL SURFACES TO RECEIVE FIELD WELDS SHALL BE THOROUGHLY CLEANED UNTIL FREE FROM PAINT, RUST, GREASE, ETC.

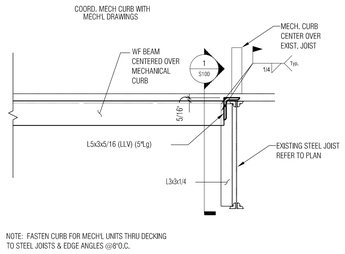






1 S100 TYPICAL JOIST REINFORCEMENT

SCALE: 3/4" = 1'-0"



NOTE: FASTEN CURB FOR MECH'L UNITS THRU DECKING TO STEEL JOISTS & EDGE ANGLES @8"O.C.

2 S100 TYPICAL NEW ROOF CURB SUPPORT

SCALE: 3/4" = 1'-0"

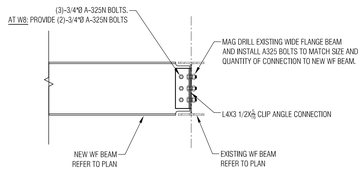
1. FRAME TO BE LOCATED BELOW ALL SIDES OF NEW MECHANICAL CURB NOT SUPPORTED DIRECTLY OVER EXISTING JOIST FRAMING.
2. COORDINATE LOCATION AND DIMENSIONS WITH MECHANICAL AND ARCHITECTURAL DRAWINGS
3. VERIFY IN FIELD ALL EXISTING FRAMING SIZES, DIMENSIONS, AND ELEVATIONS

EXISTING ROOF FRAMING PLAN

1 S100

SCALE: 1/8" = 1'-0"

1. VERIFY IN FIELD ALL EXISTING FRAMING SIZES, DIMENSIONS, AND ELEVATIONS.
2. STEEL SHALL BE LOCATED DIRECTLY UNDER MECHANICAL CURB. COORDINATE WITH MECHANICAL CONTRACTOR



3 S100 SECTION

SCALE: 3/4" = 1'-0"

Project Title:

HVAC ROOFTOP UNIT REPLACEMENT:

REGIONAL SCHOOL DISTRICT 10

LEWIS S. MILLS HAR-BUR COMPLEX
24/26 LYON ROAD
BURLINGTON, CONNECTICUT 06013

SILVER PETRUCELLI + ASSOCIATES

3190 WHITNEY AVENUE HAMDEN CT 06518
311 STATE STREET NEW LONDON CT 06320
203 230 9007 silverpetrucelli.com

Revision:	Description:	Date:	Revised By:
	-	-	

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Drawing Title:

MECHANICAL ROOFTOP PLAN- EXISTING

Date: 11/30/2023
Scale: 1/8" = 1'-0"
Drawn By:
Project Number: 23.138

Drawing Number: S100