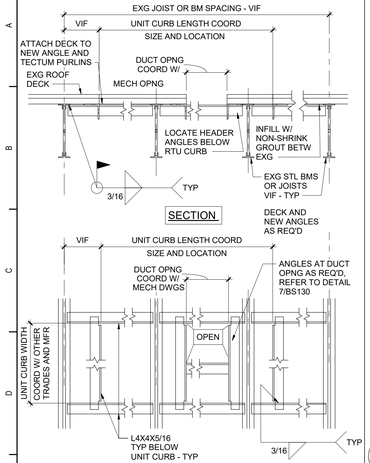
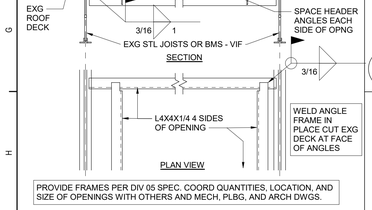
NOTE: NEW ROOF TOP UNIT MUST BE SUPPORTED BY A MIN OF THREE ROOF JOIST OR BEAMS, UNO



NOTE:
WELD ANGLE FRAME IN PLACE AND PROVIDE ADDITIONAL ANGLES AS REQD FOR EA DUCT OPNG PER TYP DETAILS. ROOF TOP SHALL BE LOCATED AS REQD TO ALLOW DICTS TO PASS BEWTEEN EXG JOISTS OR BEAMS, COORD W/ OTHER TRADES, MECH DWGS, AND MFR

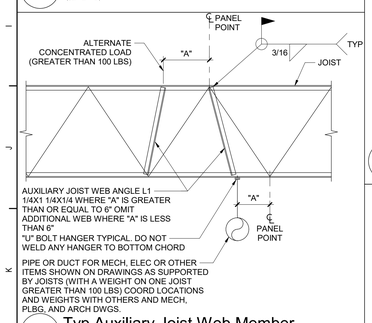
LOCATE ROOF TOP UNIT TO ENSURE EXG BRIDGING DOES NOT INTERFERE WITH INSTALLATION

11 Typ Roof Frame at Exg for New RTUs
3/4" = 1'-0"

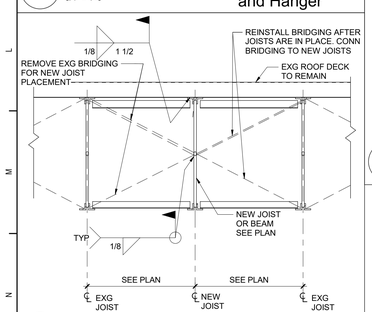


PROVIDE FRAMES PER DIV 05 SPEC. COORD QUANTITIES, LOCATION, AND SIZE OF OPENINGS WITH OTHERS AND MECH, PLBG, AND ARCH DWGS.

12 Typ Roof Frame For New Opng at Exg
3/4" = 1'-0"



13 Typ Auxiliary Joist Web Member and Hanger
3/4" = 1'-0"



14 Typ Existing Bridging at New Joist or Beam
1" = 1'-0"

1. FOR 4" THICK WALLS

MASONRY OPENING	LINTEL ANGLE
UP TO 6'-4"	MT 6X5.9

2. FOR 6" THICK WALLS

MASONRY OPENING (±)	LINTEL ANGLE
5'-0"	2- L2 1/2X2 1/2X5/16
6'-0"	2- L3X2 1/2X5/16 LLV
7'-0"	2- L3 1/2X2 1/2X5/16 LLV
8'-0"	2- L3 1/2X2 1/2X5/16 LLV

3. FOR 8", 12", AND 16" THICK WALLS:
FOR EACH 4" THICKNESS OF WALL

MASONRY OPENING (±)	LINTEL ANGLE
5'-0"	L3 1/2X3 1/2X5/16
6'-0"	L4X3 1/2X 5/16 LLV
7'-0"	L5X3 1/2X5/16 LLV
8'-0"	L5X3 1/2X5/16 LLV
9'-0"	L6X3 1/2X5/16 LLV
10'-0"	L6X3 1/2X5/16 LLV

LINTEL NOTES

1. ALL OPENINGS 1'-0" AND OVER REQUIRE LINTELS.
2. STEEL TO BE A36.
3. THIS SCHEDULE IS TYPICAL FOR ALL MASONRY OPENINGS IN NON-LOAD BEARING WALLS UNLESS OTHERWISE NOTED.
4. ALL LINTELS TO HAVE MINIMUM 8" BEARING BOTH ENDS.
5. BACK TO BACK ANGLES ARE TO BE STITCH WELDED TOGETHER BEFORE PLACEMENT.
6. ALL LINTELS ARE TO HAVE BOTH ENDS BEAR ON SOLID MASONRY OR SOLIDLY GROUTED HOLLOW MASONRY.
7. WHERE MINIMUM 8" BEARING LENGTH CANNOT BE PROVIDED DUE TO COLUMN INTERFERENCE, PROVIDE CONNECTION OF LINTEL TO COLUMN.
8. THIS LINTEL SCHEDULE IS APPLICABLE FOR USE IN EXISTING BUILDING. SHORE EXISTING STRUCTURE AND WALL AS REQD FOR INSTALLATION OF NEW MAS AND LINTEL. SEE ARCHITECTURAL AND MECHANICAL DRAWINGS FOR SIZE AND LOCATION OF OPENINGS.

7 Typical Lintel Schedule
12" = 1'-0"

8 Typical Joist Brg @ Exg CMU
1" = 1'-0"

9 Typ Beam Bearing Detail at Exg
1 1/2" = 1'-0"

10 Typ Joist Splice
1" = 1'-0"

LINTELS TO BEAR 8" EACH END ON SOLID MASONRY, TYP UNO.

5 Typ Lintel Detail
1" = 1'-0"

6 Typ Thickened Slab Under New Partition
1" = 1'-0"

COMPONENTS & CLADDING WIND PRESSURE (PSF)

MEAN ROOF HEIGHT, "h" (FT)	EFFECTIVE WIND AREA (SQ FT)	ROOF										WALLS			
		ZONE 1'		ZONE 1		ZONE 1/1'	ZONE 2			ZONE 3			ZONE 4		ZONE 5	
		MIDDLE	INTERIOR	INTERIOR		OVERHANG	EDGE		OVERHANG	CORNER		OVERHANG	INTERIOR		CORNER	
44.75	≤ 10	-36.2	16.1	-62.9	16.1	-56.9	-83.0	36.2	-77.0	-83.0	36.2	-77.0	-39.2	36.2	-48.2	36.2
	25	-36.2	16.0	-58.8	16.0	-55.9	-77.7	34.6	-69.9	-77.7	34.6	-69.9	-37.1	34.0	-44.0	34.0
	50	-36.2	16.0	-53.3	16.0	-54.6	-70.6	32.4	-60.5	-70.6	32.4	-60.5	-35.5	32.4	-40.8	32.4
	100	-36.2	16.0	-49.2	16.0	-53.6	-65.3	30.8	-53.4	-65.3	30.8	-53.4	-33.9	30.8	-37.6	30.8
	≥ 500	-24.5	16.0	-39.5	16.0	-36.8	-52.9	27.1	-36.8	-52.9	27.1	-36.8	-30.1	27.1	-30.1	27.1

NOTES:

1. MEAN ROOF HEIGHT IS MEASURED ABOVE DATUM FFE, ELEVATION = 100'-0".

2. REFER TO ASCE 7-16 FOR DEFINITION OF TERMS. FOR THE DIMENSIONS OF EACH ZONE, REFERENCE FIGURE 30.4-1 IN ASCE 7-16 AND USE "h" FROM ABOVE TABLE TO DETERMINE 0.6h AND 0.2h.

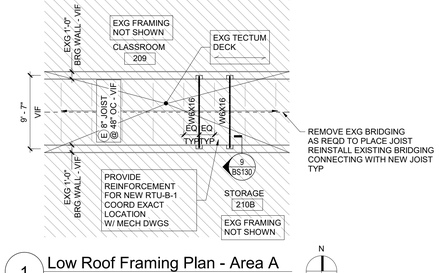
3. THESE TABLES ARE TO BE USED FOR WIND LOAD CONTRIBUTION TO TOTAL LOAD ACTING ON ANY COMPONENT OR CLADDING MEMBER WHICH IS PART OF A ROOF OR EXTERIOR WALL ASSEMBLY. EXAMPLES OF COMPONENTS AND CLADDING INCLUDE, BUT ARE NOT LIMITED TO ROOF JOISTS, WALL STUDS, ROOF DECK FASTENERS, VENEER TIES, WINDOWS, AND THEIR ATTACHMENTS.

4. FOR EFFECTIVE WIND AREA VALUES LISTED IN THE TABLE ABOVE, PRESSURE VALUES MAY INTERPOLATED; OTHERWISE USE THE VALUE ASSOCIATED WITH THE LOWER EFFECTIVE WIND AREA.

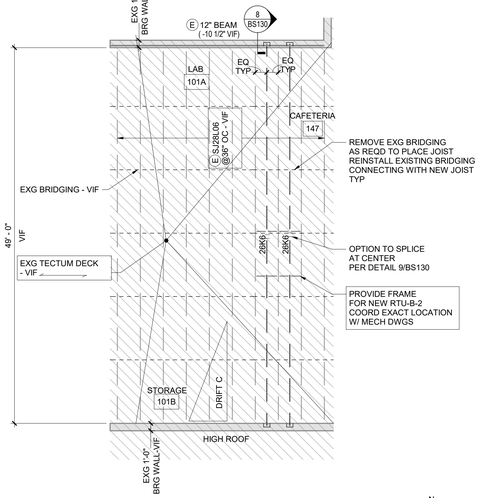
5. POSITIVE PRESSURES (+) ACT TOWARDS THE BUILDING, NEGATIVE PRESSURES (-) ACT AWAY FROM THE BUILDING, POSITIVE AND NEGATIVE PRESSURES DO NOT ACT SIMULTANEOUSLY. PRESSURES ARE APPLIED TO THE SURFACE OF THE COMPONENT OR CLADDING.

6. DESIGN VALUES SHOWN IN THIS TABLE ARE ULTIMATE VALUES FOR USE WITH LRFD DESIGN. VALUES MAY BE MULTIPLIED BY 0.6 FOR USE WITH SERVICE LEVEL OR ASD DESIGN. REFER TO THE BUILDING CODE FOR APPLICABLE LOAD COMBINATIONS.

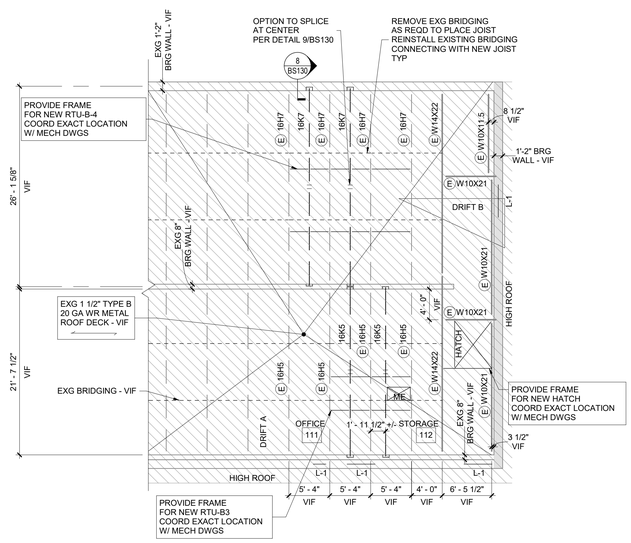
4 Ductwork Support Detail
1" = 1'-0"



1 Low Roof Framing Plan - Area A
1/8" = 1'-0"
DATUM FOR EXG TOS IS AT 120'-10" - VIF



3 Low Roof Framing Plan - Area A
1/8" = 1'-0"
DATUM FOR EXG TOS IS AT 108'-8 1/2" - VIF



2 Low Roof Framing Plan - Area B
1/8" = 1'-0"
DATUM FOR EXG TOS IS AT 110'-8" - VIF

Structural Loads:

A. ROOF LIVE LOADS PER BCNYS 1607.13

MINIMUM ROOF LIVE LOAD	20 PSF

B. RAIN LOADS PER BCNYS 1611

RAIN INTENSITY, i	2.86 IN/HR

RAIN SURCHARGE LOAD HAS BEEN APPLIED TO AREAS WHERE PONDING OCCURS IN ACCORDANCE WITH BCNYS 1611.1.

C. SNOW LOADS PER BCNYS 1608

GROUND SNOW, P_g (FIGURE 1608.2)	40 PSF
FLAT ROOF SNOW LOAD, P_f (ASCE 7)	30.8 PSF
SNOW EXPOSURE FACTOR, C_e	1.0
THERMAL FACTOR, C_t	1.0
SLOPE FACTOR, C	1.0
SNOW LOAD IMPORTANCE FACTOR, I_S	1.1
DRIFT SURCHARGE, P_d	
DRIFT A	54.6 PSF
DRIFT B	66 PSF
DRIFT C	62.1 PSF
DRIFT WIDTH, w	
DRIFT A	11.4 FT
DRIFT B	13.8 FT
DRIFT C	13 FT

ADDITIONAL SNOW LOADS HAVE BEEN APPLIED TO AREAS WHERE DRIFTING OCCURS IN ACCORDANCE WITH BCNYS 1608.

D. WIND LOAD DESIGN CRITERIA PER BCNYS 1609

BASIC DESIGN WIND SPEED (3 SECOND GUST), V	120 MPH
ALLOWABLE STRESS DESIGN WIND SPEED, V_{asd}	93 MPH
RISK CATEGORY	III
EXPOSURE CATEGORY	C
INTERNAL PRESSURE COEFFICIENT, GC_{Pi}	+/- 0.18

E. SEISMIC DESIGN CRITERIA PER BCNYS 1613

RISK CATEGORY	III
SEISMIC IMPORTANCE FACTOR, I_e	1.25
MAPPED SPECTRAL RESPONSE ACCELERATION	
AT SHORT PERIODS, S_S	20.2 %g
AT 1 SECOND PERIODS, S_1	5.40 %g
SITE CLASS	D (ASSUMED)
DESIGN SPECTRAL RESPONSE ACCELERATION	
AT SHORT PERIODS, S_{DS}	21.5 %g
AT 1 SECOND PERIODS, S_{D1}	8.7 %g
SEISMIC DESIGN CATEGORY	B

F. SPECIAL LOADS PER BCNYS 1603.1.8

MECHANICAL EQUIPMENT DEAD LOADS	
RTU-B-1	5100 LB
RTU-B-2	3600 LB
RTU-B-3	2205 LB
RTU-B-4	5108 LB

General Notes:

A. DIMENSIONS AND ELEVATIONS SHOWN ON PLAN AS PLUS/MINUS (+/-) AND VIF ARE TO BE CONSIDERED APPROXIMATE. EXACT VALUES FOR ALL (+/-) AND VIF DIMENSIONS ARE TO BE DETERMINED BY THE CONTRACTOR IN THE FIELD THROUGH A PRELIMINARY BUILDING LAYOUT. CONTRACTOR TO VERIFY EXISTING DIMENSIONS, ELEVATIONS AND CONDITIONS AND NOTIFY A/E OF ANY DISCREPANCIES PRIOR TO COMMENCING WORK. COORDINATE INFORMATION WITH OTHER TRADES.

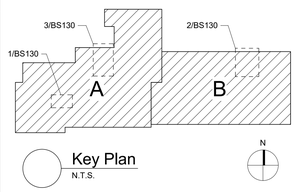
B. REFER TO SHEET BS130 FOR GENERAL NOTES, LINTEL SHEDULE AND SPECIFIC LINTEL DETAILS

C. REFER TO SHEET BS130 FOR TYPICAL DETAILS.

D. REFER TO SHEET BS130 FOR BEAM CONNECTION SCHEDULE.

E. PROVIDE ALL ROOF OPENING FRAMES PER DIV 05 SPEC. COORDINATE QUANTITIES, LOCATION, AND SIZE OF OPENINGS WITH OTHERS AND MECH, PLBG, AND ARCH DWGS.

F. ALL BEAM/JOIST ARE SPACED EQUALLY BETWEEN EXISTING FRAMING UNO.



Key Plan
N.T.S.

S.E.D. Control No. 62-18-01-06-0-002-015

Rev. No.:	Date:	Description:
1	Date 1	Revision 1

WALLKILL CENTRAL SCHOOL DISTRICT

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Tetra Tech Engineers, Architects & Landscape Architects, P.C.

BID SET

TETRA TECH ARCHITECTS & ENGINEERS

Wallkill Central School District
Wallkill, New York

Reconstruction to:
John G. Borden Middle School

Partial Roof Framing Plan - Areas A, B
Notes, Schedules, and Details

Drawn By:	Date:	Drawing Number:
NDC / vmm	06/30/2023	BS130

Project No.: 17597-22002