

LINTEL SCHEDULE AND NOTES

M-002

NON-LOAD BEARING PARTITIONS

BLOCK LINTELS	MAX CLEAR SPAN	140 BLOCK		190 BLOCK		240 BLOCK		290 BLOCK					
		b	d	REBAR	STIRRUPS	b	d	REBAR	STIRRUPS	b	d	REBAR	STIRRUPS
	UP TO 1200	140	190	1-10 T&B	1-10 T&B	190	190	1-10 T&B	1-10 T&B	240	190	1-10 T&B	1-10 T&B
	1201 TO 1800	140	190	1-10 T&B	1-10 T&B	190	190	1-15 T&B	1-15 T&B	240	190	1-15 T&B	1-15 T&B
	1801 TO 2300	140	190	1-15 T&B	1-15 T&B	190	190	1-20 T&B	1-20 T&B	240	190	1-25 T&B	1-25 T&B

> 2300 USE STEEL LINTEL

- NOTES:
1. CONCRETE FILL: 20 MPa MIN. STRENGTH WITH 150 SLUMP
 2. BEARING LENGTH: 200 MIN. AT EACH END.

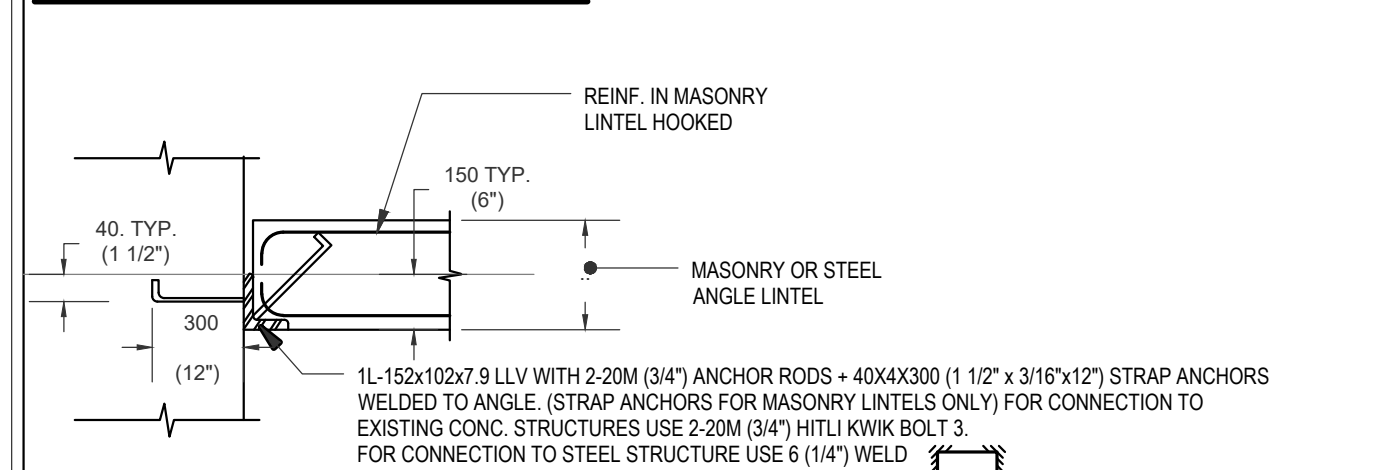
STEEL LINTELS	MAX CLEAR SPAN	140 BLOCK		190 BLOCK		240 BLOCK		290 BLOCK	
		BEAM	PLATE	BEAM	PLATE	BEAM	PLATE	BEAM	PLATE
	UP TO 1500	L 89x89x7.9	L 127x89x7.9	L 89x89x7.9	L 127x89x7.9	L 89x89x7.9	L 127x89x7.9	L 89x89x7.9	L 127x89x7.9
	1501 TO 2300	L 127x89x7.9	L 127x89x7.9	L 127x89x7.9	L 127x89x7.9	L 127x89x7.9	L 127x89x7.9	L 127x89x7.9	L 127x89x7.9

- NOTES:
1. BEARING LENGTH: 150 MIN. EACH END. BEAR PLATE ON BUTTER COAT OF CEMENT MORTAR EACH END.

BRICK AND BLOCK WYTHES	MAX CLEAR SPAN	1-100 THICK WYTH		2-100 THICK WYTH		3-100 THICK WYTH		4-100 THICK WYTH		5-100 THICK WYTH	
		L	W	L	W	L	W	L	W	L	W
	UP TO 1500	L 89x89x7.9	L 127x89x7.9	L 89x89x7.9	L 127x89x7.9	L 89x89x7.9	L 127x89x7.9	L 89x89x7.9	L 127x89x7.9	L 89x89x7.9	L 127x89x7.9
	1501 TO 2300	L 127x89x7.9	L 127x89x7.9	L 127x89x7.9	L 127x89x7.9	L 127x89x7.9	L 127x89x7.9	L 127x89x7.9	L 127x89x7.9	L 127x89x7.9	L 127x89x7.9
	2301 TO 2600	L 152x89x7.9	L 152x89x7.9	L 152x89x7.9	L 152x89x7.9	L 152x89x7.9	L 152x89x7.9	L 152x89x7.9	L 152x89x7.9	L 152x89x7.9	L 152x89x7.9

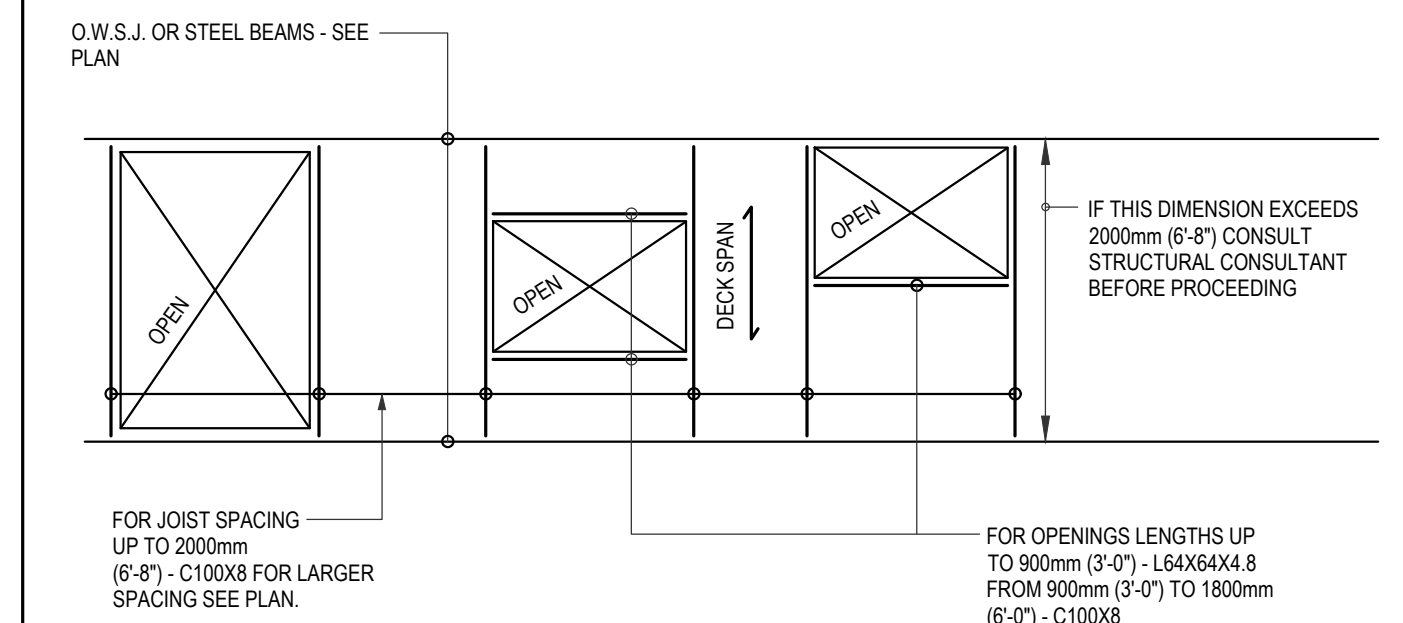
- NOTES:
1. LONG LEGS VERTICAL
 2. BEARING LENGTH 150 MIN. EACH END. SET STEEL ANGLE LINTELS WITH ENDS WRAPPED WITH 6mm POLYETHYLENE SHEET ON 10GA. GALV. STEEL PLATES ON MASONRY EA. END.
 3. CONNECT ANGLES BACK TO BACK AT 600 o/c BY WELDING OR BOLTING ANGLES GREATER THAN 1800 LONG. USE 16 DIA. BOLTS.
 4. FOR LOCATIONS & SIZES OF OPENINGS, SEE ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS.

LINTEL CONNECTION TO CONCRETE OR STEEL STRUCTURE

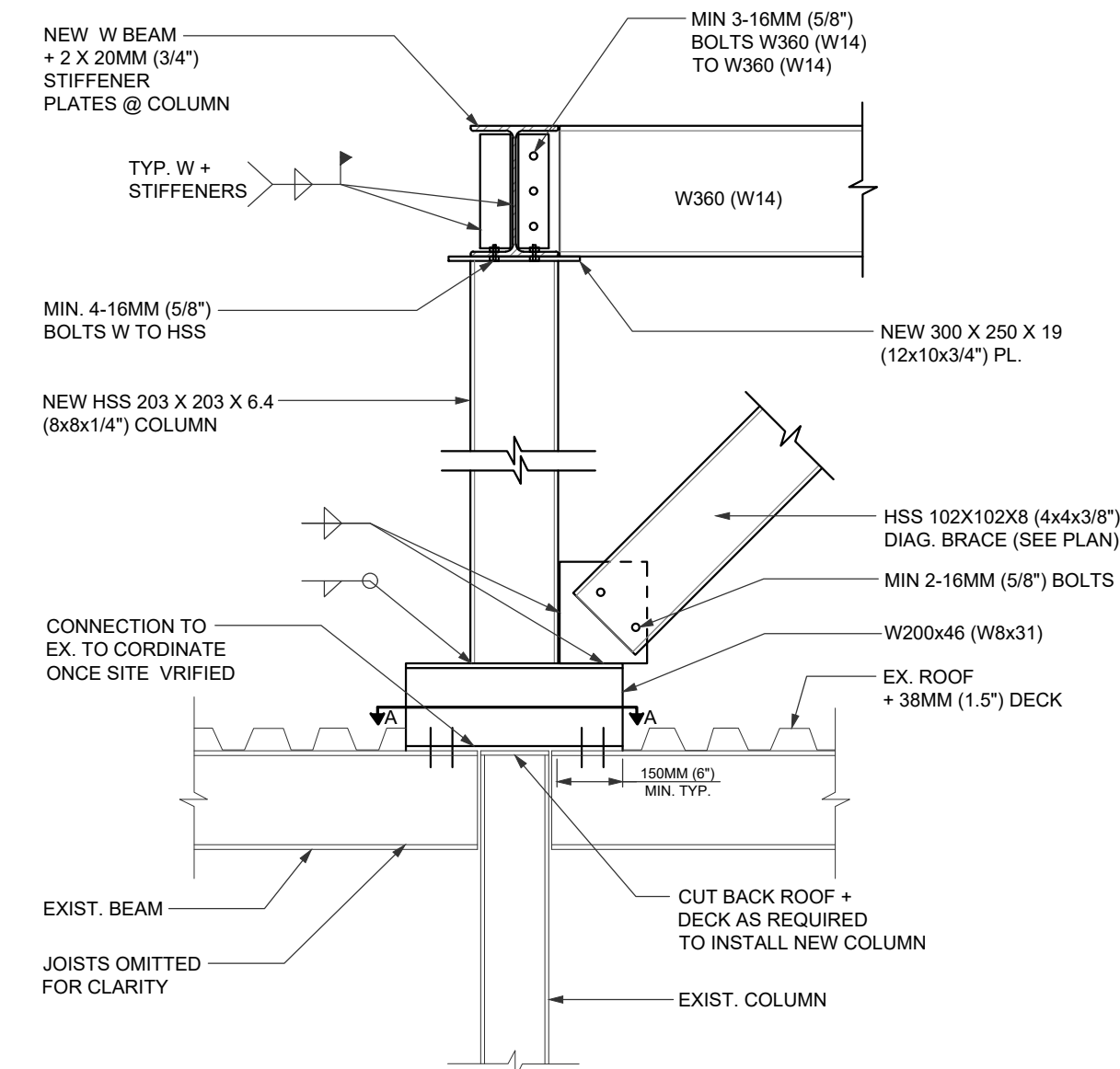


TRIMMING AT OPENINGS IN DECK

S-008



- NOTES:
1. TOP OF ALL TRIMMING AT UNDERSIDE OF STEEL DECK UNLESS OTHERWISE NOTED
 2. LOCATION OF MECHANICAL UNITS AND OPENINGS THROUGH ROOF IS BASED ON INFORMATION SHOWN ON MECHANICAL DRAWINGS. THE STRUCTURAL STEEL SUB-CONTRACTOR MUST CONFIRM ALL THESE DIMENSIONS AND SIZES WITH THE MECHANICAL CONTRACTOR
 3. O.W.S.J. MUST BE DESIGNED FOR ADDITIONAL LOADS FOR MECHANICAL UNITS.
 4. IF ACTUAL LOCATIONS OR DETAILS VARY FROM THOSE SHOWN, THE STRUCTURAL CONSULTANT MUST BE INFORMED AND INSTRUCTIONS RECEIVED BEFORE PROCEEDING WITH THE WORK.
 5. THE STRUCTURAL STEEL SUB-CONTRACTOR IS TO SUBMIT ERECTION DRAWINGS TO THE MECHANICAL ENGINEER AND/OR CONTRACTOR FOR APPROVAL OF SIZE AND LOCATION OF OPENINGS FOR MECHANICAL UNITS.



TYP. SUPPORT DETAIL NEW ERV
SCALE: 3/4" = 1'-0"

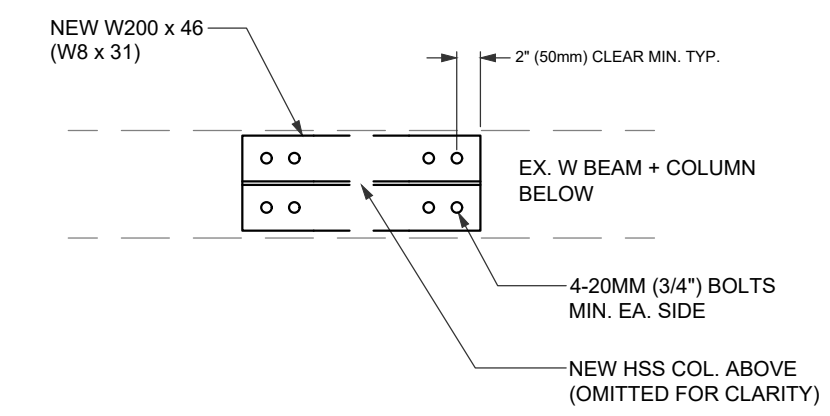
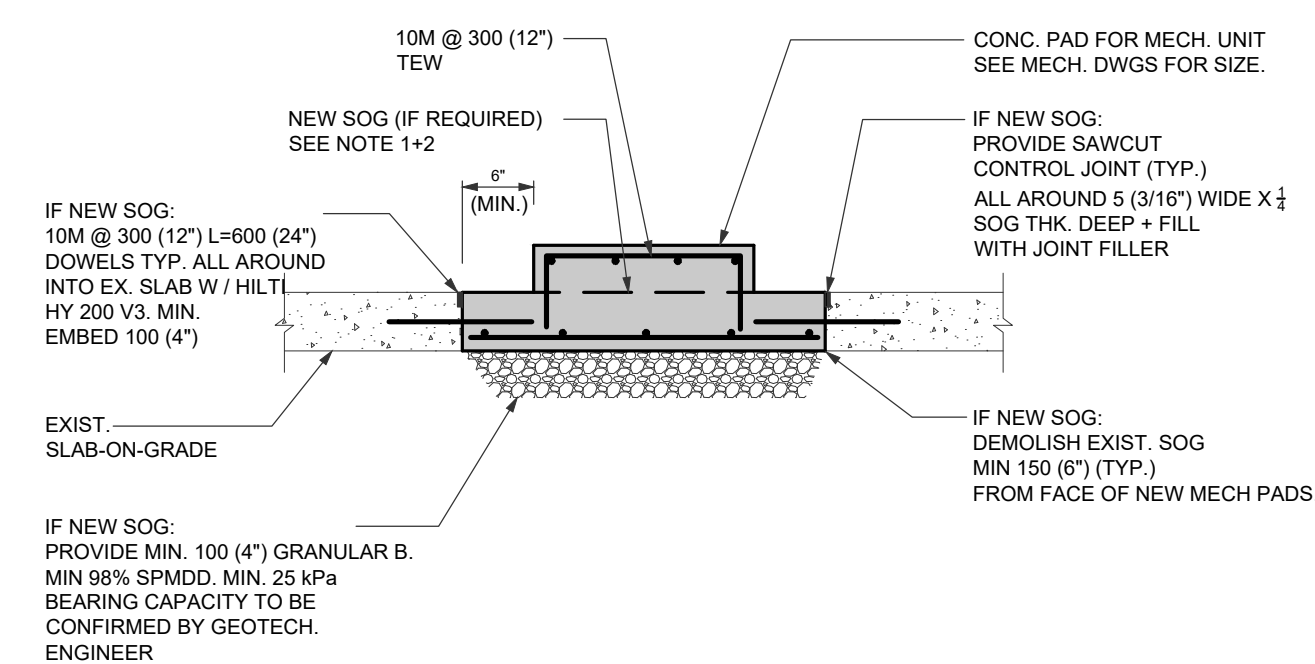


PLATE INSTALLATION DETAIL A-A
SCALE: 3/4" = 1'-0"



TYP. DETAIL - NEW SLAB ON GRADE AND MECHANICAL PAD AT BOILER ROOM
SCALE: 3/4" = 1'-0"

1. IF EXISTING MECHANICAL PADS ARE CONNECTED TO EXISTING SLAB ON GRADE:
 - i) SAWCUT AND DEMOLISH EXISTING MECHANICAL PAD AND SLAB ON GRADE
 - ii) INSTALL NEW SLAB ON GRADE AND MECHANICAL PAD TO SUIT MECHANICAL PLAN
2. IF EXISTING MECHANICAL PADS ARE NOT CONNECTED TO EXISTING SLAB ON GRADE:
 - i) DEMOLISH EXISTING MECHANICAL PADS AS REQUIRED
 - ii) INSTALL NEW MECHANICAL PAD ON EXISTING SLAB ON GRADE. DOWEL TYPICAL PAD REINFORCEMENT MIN 100 mm (4") INTO EX. SLAB ON GRADE + HILT1 HY 200 V3 EPOXY.
3. ALL NEW CONCRETE TO BE MINIMUM 25 MPa CLASS N TO A23.1/2
4. REBAR TO BE 400W. TO CSA G30.18
5. CONCRETE CLEAR COVER: 50MM (2") UNO
6. NEW SOG THICKNESS TO MATCH EXISTING EXCEPT MIN. 150 (6") THICK.

THESE DRAWINGS ARE NOT TO BE SCALED

ALL DRAWINGS, THE DESIGN, AND THE DETAILS THEREON REMAIN THE PROPERTY OF THE CONSULTANT AND ARE NOT TO BE ALTERED, RE-USED OR REPRODUCED WITHOUT THE CONSULTANT'S EXPRESS WRITTEN CONSENT.

THE CONTRACTOR MUST FIELD VERIFY ALL DIMENSIONS AND MUST CONFIRM & CORRELATE ALL DETAILS WITHIN THE FULL DRAWING PACKAGE BEING RESPONSIBLE FOR SAME THROUGHOUT CONSTRUCTION, REPORTING ANY DISCREPANCIES TO THE ARCHITECT PRIOR TO COMMENCING THE RELEVANT WORK.

ALL DRAWINGS, DETAILS & SPECIFICATIONS REPRESENTED IN THE DRAWINGS ARE TO BE USED FOR CONSTRUCTION ONLY WHEN ISSUED BY THE ARCHITECT AND NOTED ACCORDINGLY IN THE "ISSUE/REVISIONS" BOX HEREON.

1. ISSUED FOR PERMIT 2023-11-14
2. ISSUED FOR TENDER 2023-11-21
3. ISSUED FOR TENDER 2024-01-31

PROJECT:
HVAC Renovations

Glendale
Secondary
School

145 Rainbow Dr,
Hamilton, ON
For the HWDSB

SCALE:



SZ/DL

EXP Services Inc.

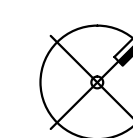
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TYP. DETAILS

SCALE:
AS NOTED

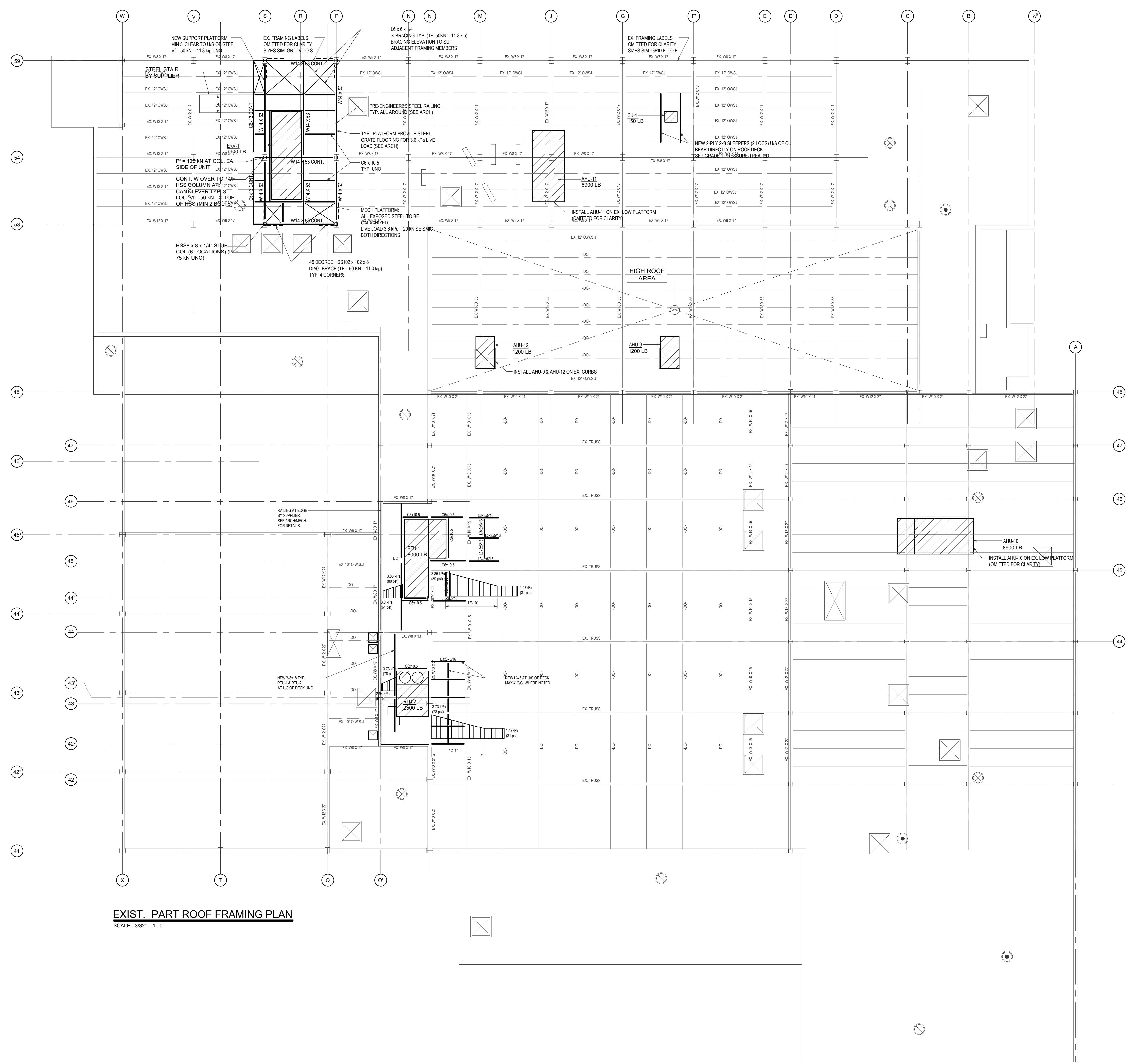
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DATE:
NOVEMBER, 2023

PROJECT #:
ALL-23010629-A0

DRAWING #:

S1.1



EXIST. PART ROOF FRAMING PLAN
SCALE: 3/32" = 1'-0"

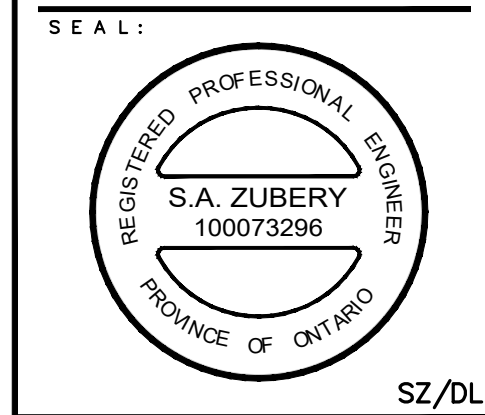
PLAN NOTES:

- GENERAL CONTRACTOR TO COORDINATE FOR APPROPRIATE PHASING AS REQUIRED TO INSTALL STRUCTURAL FRAMING IN EXISTING CEILING SPACE. SHORING BY SHORING ENGINEER AS REQUIRED.
- CONTRACTOR TO SITE VERIFY ALL SHOWN EXISTING STRUCTURE PRIOR TO CONDUCTING THE WORK. ANY DISCREPANCY BETWEEN EXISTING STRUCTURE AND DRAWINGS TO BE REPORTED TO CONSULTANT.
- FIELD VERIFY THE DIMENSIONS, ELEVATIONS, ETC. NECESSARY FOR THE PROPER CONSTRUCTION AND ALIGNMENT OF THE NEW PORTIONS OF WORK TO THE EXISTING WORK.
- CONTRACTOR TO INSPECT AND BECOME FAMILIAR WITH THE EXISTING SITE CONDITIONS AND THE STRUCTURE. PROTECT FROM DAMAGE THOSE PARTS OF THE EXISTING WORK WHICH ARE TO REMAIN.
- REFER TO ARCHITECTURAL AND MECHANICAL DRAWINGS TO CONFIRM ALL DIMENSIONS.
- EXISTING STRUCTURE IS BASED ON ARCHITECTURAL & STRUCTURAL DRAWINGS BY PRACK & PRACK ARCHITECTS DATED JULY 1999 AND MARCH 1962. CONTRACTOR SHALL MAKE THEMSELVES FAMILIAR WITH THESE DRAWINGS PRIOR TO CONDUCTING THE WORK.
- DESIGN LOADS:
 - 1.1 kPa (23 psf) EXIST. ROOF SUPERIMPOSED DEAD LOAD ASSUMED
 - 1.47 kPa (07 psf) SNOW LOAD PLUS ACCUMULATION
 - MACHINICAL UNIT LIVE LOADS AS NOTED.
 - ALL EXISTING STEEL TO BE ASSUMED TO BE A36 (Fy = 250 MPa) PER EXISTING DRAWINGS
- MECHANICAL WALL OPENING REQUIREMENTS:
 - ALL OPENINGS TO SUIT MECHANICAL & ARCHITECTURAL DRAWINGS UNDO
 - ALL EXISTING OPENINGS BEING ABANDONED SHALL BE INFILLED WITH NON-STRUCTURAL WALL INFILL TO SUIT ARCHITECTURAL REQUIREMENTS.
 - ALL EXISTING OPENINGS WHICH ARE NOT MODIFIED DURING CONSTRUCTION AND WHICH ARE IN GOOD CONDITION MAY BE REUSED WITHOUT FURTHER MODIFICATION.
 - ALL NEW OPENINGS OR OPENINGS BEING ENLARGED SHALL BE PROVIDED WITH A NEW LINTEL.
- LINTEL REQUIREMENTS:
 - PROVIDE NEW LINTELS FOR ALL NEW WALL OPENINGS BEING ENLARGED IN WIDTH.
 - ALL LINTELS TO BE 300W OR 350W. ALL LINTELS IN EXTERIOR WALLS TO BE GALVANIZED.
 - WALL ASSEMBLY: 75#F (150) CMU - 3/8" (9.5) VENEER UNO (SITE VERIFY). VENEER AT EXTERIOR ONLY.
 - LINTEL: 2 L x 3.5 x 5/16" LVL (L127489-9) UNO. ADD LOOSE LINTEL FOR EXTERIOR VENEER. MAX 92" (2300) CLEAR OPENING WIDTH UNO.
 - LINTEL TO BE GALV. 300W OR 350W MIN 8" (150) BEARING LENGTH EACH END.
 - SET STEEL ANGLES WITH ENDS WRAPPED WITH 1/4" (6 mm) POLYETHYLENE SHEET ON 10 GA. GALV. STEEL PLATES ON MASONRY EA. END.
 - ALL NEW MASONRY RELATED TO LINTELS TO BE TYPE H-15/M OR S-15/M WITH MORTAR. TYPE: S, 8 MPa (282 MIN). GROUT: 20 MPa, 200 mm SLUMP. MORTAR AND GROUT TO SUIT CSA A179.
- REFER TO ARCH / MECH. DRAWINGS FOR SPECIFIED LOCATION OF NEW MECHANICAL ROOF TOP UNITS, OPENINGS ETC.
- PIPES, DUCTWORK, ELECTRICAL, CABLES, CEILING ETC. SHALL NOT HANG FROM FLOOR ROOF DECK. ALL HANGERS SHALL BE HUNG FROM TOP CHORD OF JOISTS OR BEAMS.

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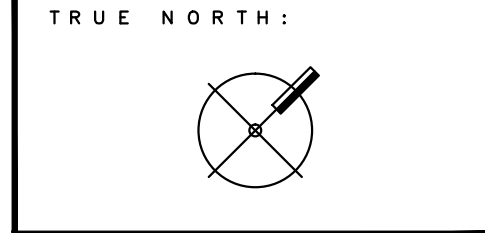
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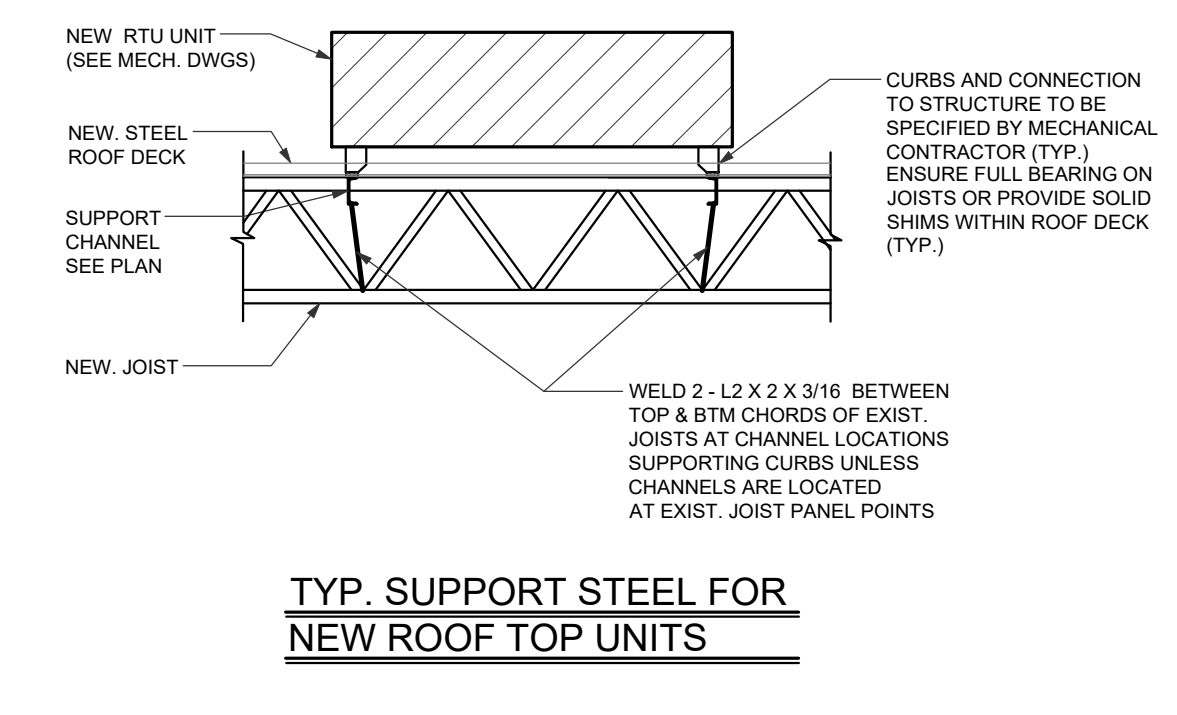
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DRAWING TITLE:

PART EXIST. ROOF FRAMING PLAN, NOTES AND DETAIL

SCALE:
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DATE:
NOVEMBER, 2023
PROJECT #:
ALL-23010629-AO
DRAWING #:
S2.0



TYP. SUPPORT STEEL FOR NEW ROOF TOP UNITS