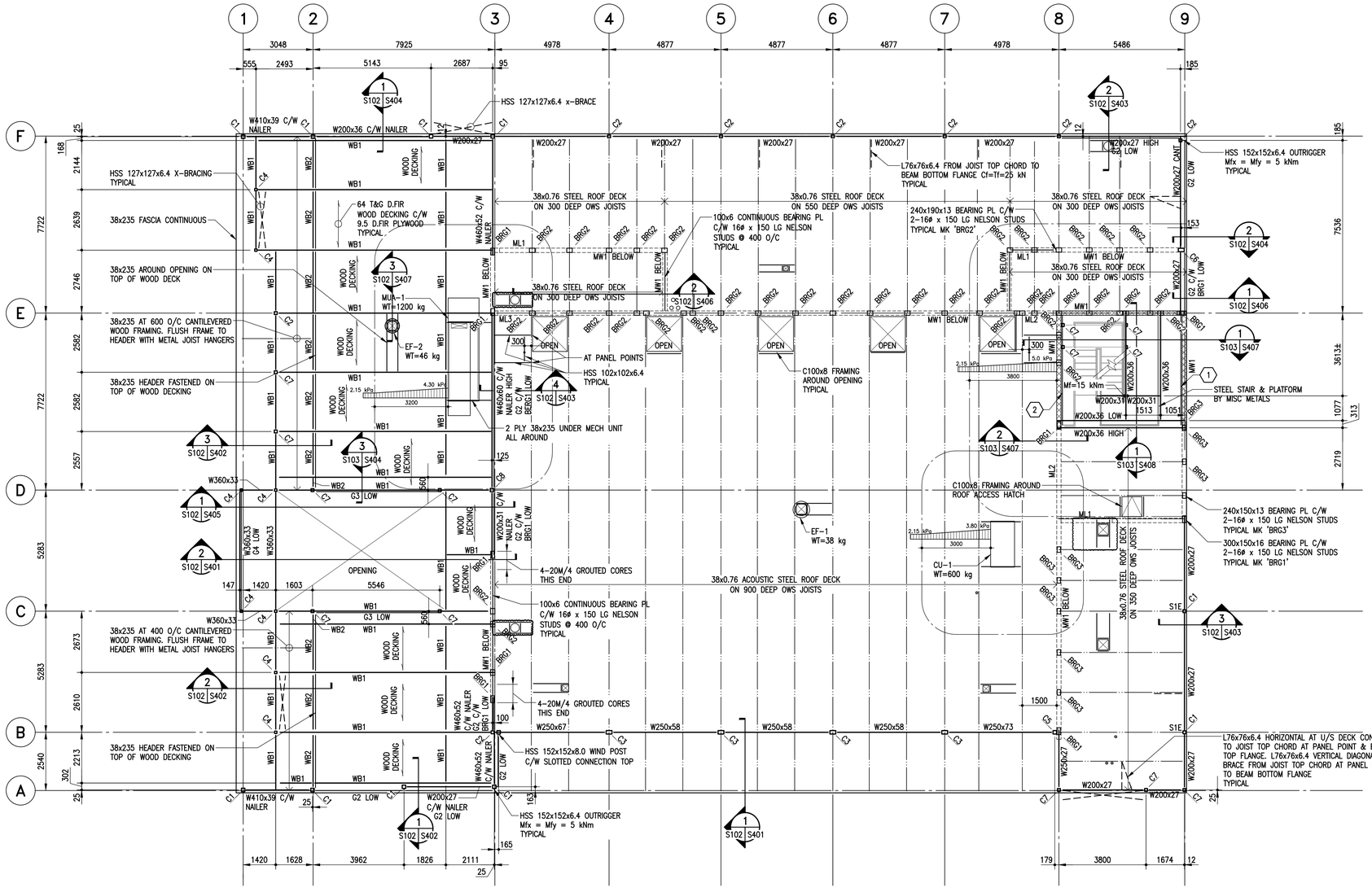

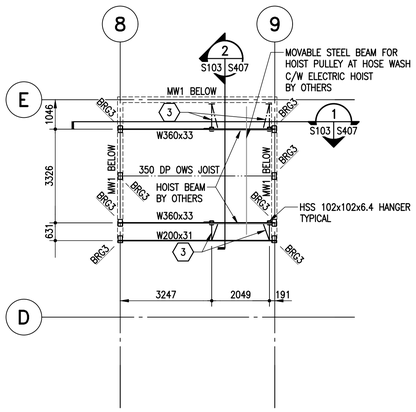

HIGH ROOF FRAMING PLAN

1 : 100

- DESIGN DEAD LOAD = 1.0 kPa
- DESIGN LIVE LOAD (SNOW) = 2.15 kPa
- DESIGN WIND LOAD:
  w=0.74 kPa (ULS) W=0.44 kPa (SLS) PRESSURE
  w=1.30 kPa (ULS) W=0.78 kPa (SLS) UPLIFT
  w=1.72 kPa (ULS) W=1.03 kPa (SLS) UPLIFT z=1 m FROM EDGE
  w=3.37 kPa (ULS) w=2.02 kPa (SLS) UPLIFT - CORNERS (1x1 m)

- U/S STEEL DECK EL 110 073.
- HOIST BEAM LIFTING CAPACITY = 2.5 kN

ROOF FRAMING PLAN

1 : 100

- DESIGN DEAD LOAD = 1.0 kPa
- DESIGN LIVE LOAD (SNOW) = 2.15 kPa + SNOW ACCUMULATION SHOWN ON PLAN
- DESIGN WIND LOAD: w=0.73 kPa (ULS) W=0.44 kPa (SLS) PRESSURE
  w=1.26 kPa (ULS) W=0.75 kPa (SLS) UPLIFT
  w=1.67 KPa (ULS) W=1.00 kPa (SLS) UPLIFT z=3 m FROM EDGE
  w=2.07 kPa (ULS) w=1.24 kPa (SLS) UPLIFT - OVERHANG
  w=3.25 kPa (ULS) w=1.95 kPa (SLS) UPLIFT - CORNERS (3x3 m)

ROOF NOTES:

- U/S STEEL DECK EL 107 734.
- U/S WOOD DECKING EL 107 714.
- REFER TO DRAWING SERIES S00X FOR GENERAL NOTES, DETAILS & SCHEDULES.
- JOIST NOTED "SJ" TO BE STRUTTED TO COLUMN OR BEAM AT EACH END. FOR A LOAD Cf=Tf=26kN
- JOIST NOTED "S1E" TO BE STRUTTED TO COLUMN OR BEAM AT ONE END. FOR A LOAD Cf=Tf=26kN
- JOIST TO HAVE 100 DEEP SEAT & SPACED AS SHOWN ON PLAN.
- BEAMS CONTINUOUS OVER/BELOW COLUMNS C/W FULL HEIGHT WEB STIFFENERS EACH SIDE OF BEAM WEB AND SAME ORIENTATION AS THE COLUMN BELOW/ABOVE. STIFFENER THICKNESS TO BE MINIMUM THE COLUMN WALL THICKNESS OR BEAM FLANGE THICKNESS WHICHEVER IS GREATER AND NOT LESS THAN 9.5 mm.
- SNOW LOADS HAVE BEEN MULTIPLIED BY A SNOW LOAD IMPORTANCE FACTOR Is=1.25
- WIND LOADS HAVE BEEN MULTIPLIED BY A WIND LOAD IMPORTANCE FACTOR Is=1.25
- STEEL ROOF DECK TO BE TRIPLE SPAN. TYPICAL
- ALL EXTERIOR STRUCTURAL STEEL TO BE HOT-DIPPED GALVANIZED. EXPOSED STRUCTURAL STEEL IN HOSE WASH AREA TO BE HOT-DIPPED GALVANIZED.
- ALL PENETRATIONS THROUGH GLULAM BEAMS TO BE REVIEWED AND APPROVED BY GLULAM BEAM SUPPLIER. SEE ARCHITECTURAL AND ELECTRICAL DRAWINGS FOR EXACT LOCATIONS.

ROOF FRAMING PLAN KEYNOTES:

1. HSS 178x127x9.5 C/W 16ø x 150 EMBED THREADED RODS @ 800 O/C C/W HILTI HIT-HY270 ADHESIVE. T/O GIRT EL 103 075
2. HSS 178x127x6.4 C/W 16ø x 150 EMBED THREADED RODS @ 800 O/C C/W HILTI HIT-HY270 ADHESIVE. T/O GIRT EL 103 075
3. L76x76x6.4 VERTICAL DIAGONAL BRACE Cf=Tf=25 kN

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2022-0020

Crosier Kilgour & Partners Ltd.
CONSULTING STRUCTURAL ENGINEERS

NO.	DATE	REVISION / ISSUANCE
00	2023.02.03	ISSUED FOR CONSTRUCTION

Seal

PROVINCE OF MANITOBA
BERVANAKIS
Member
38311
2023-02-02
REGISTERED PROFESSIONAL ENGINEER

ENGINEERS GEOSCIENTISTS MANITOBA
Certificate of Authorization
Crosier Kilgour & Partners Ltd.
No. 235

Project

WFPS STATION 9

1083 AUTUMNWOOD DRIVE

Sheet Title

ROOF FRAMING PLAN

Project No. 2150

Sheet S104

CIBINEL - Arch D - 24" X 36"