

RFI 047 Duct Conflict at Grid C-4

Research package and draft clarification prepared for PM and design-team review.

Project	Northbridge Medical Office Renovation
Location	Level 2 corridor at Grid C-4
Prepared	September 16, 2026
Status	PM review before issue

3	1	2	09/18
Source documents	Design decision	Schedule exposures	Response needed

Decision Brief

Issue	The 24 x 18 supply duct route shown on M-202 crosses the bottom of the structural beam at Grid C-4. The reflected ceiling plan allows only 14 inches below the beam; the scheduled duct plus insulation requires approximately 21 inches.
Decision required	Confirm whether the duct may shift 30 inches east and pass through the adjacent open joist bay, or provide an alternate routing/detail.
Why now	Shop fabrication for the Level 2 main is scheduled to begin September 21. A response after September 18 may delay fabrication or create field rework.
PM recommendation	Issue the RFI with Option A as the preferred coordination path. Do not fabricate the affected offset until the design team responds.

Source Review

Source	Observed requirement	Relevance
M-202 Level 2 HVAC plan	24 x 18 SA main is routed west-east through corridor C-4.	Establishes intended route and downstream branch locations.
M-502 Detail 4	Duct is shown above ceiling with 1-1/2 inch external insulation and trapeze supports.	Confirms total assembly depth and support allowance.
S-202 framing plan	Beam B-14 crosses the route; adjacent joist bay is open 30 inches east.	Identifies conflict and a potentially coordinated alternate path.

Coordination Sketch

INTENDED ROUTE	CONFLICT	OPTION A FOR DESIGN REVIEW
24 x 18 supply duct follows M-202 through corridor.	Beam B-14 occupies the same elevation. Required assembly depth exceeds available ceiling zone by about 7 inches.	Shift duct 30 inches east into open joist bay, maintain downstream branch orientation and provide coordinated offset fittings.
M-202	S-202 / field coordination	Not for construction - design confirmation required

Draft RFI Language

Prepared for contractor PM review and formal issuance through the project's document-control system.

RFI	047
Subject	Supply duct conflict with structural beam at Grid C-4
Required response	September 18, 2026
Cost / schedule	Potential impact - pending direction

The Level 2 HVAC plan M-202 routes the 24 x 18 supply-air main through the corridor at Grid C-4. Structural plan S-202 indicates Beam B-14 crossing this route. Based on Detail 4/M-502, the duct, external insulation and support assembly require approximately 21 inches of vertical clearance; approximately 14 inches is available below the beam and above the scheduled ceiling.

Please confirm whether the contractor may shift the duct approximately 30 inches east into the adjacent open joist bay and provide coordinated offset fittings while maintaining the downstream branch locations shown on M-202. If this routing is not acceptable, please provide the required alternate route or revised detail.

Fabrication of the affected Level 2 main is scheduled to begin September 21, 2026. Direction by September 18 is requested to avoid fabrication delay or field rework. No affected duct will be fabricated until written direction is received.

Impact and Follow-Through

Category	Current assessment	Next action / owner
Fabrication	Affected 24 x 18 main held; downstream branches can continue.	MechAPM - advise fabricator of partial hold and obtain revised cut-off date.
Schedule	Response after 09/18 may move Level 2 installation sequence.	PM - confirm priority; MechAPM - update two-week look-ahead after response.
Cost	Two offset fittings and possible additional support may create added cost.	MechAPM - obtain priced delta after routing is confirmed; PM approves submission.
Coordination	Option A appears clear of the adjacent sprinkler main based on current overlays.	Design team - confirm route; field - verify ceiling-zone dimensions before fabrication.

Issue Checklist

Complete	Item
Yes	Drawing and detail references verified
Yes	Conflict and available clearance quantified
Yes	Requested direction written as a single answerable question
Yes	Schedule exposure and response date stated
Pending	PM review and formal issue through project system