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**SOLICITATION AMENDMENT
MODIFICATION DE L'INVITATION**

The referenced document is hereby revised; unless otherwise
indicated, all other terms and conditions of the Solicitation
remain the same.

Ce document est par la présente révisé; sauf indication contraire,
les modalités de l'invitation demeurent les mêmes.

Comments - Commentaires

Vendor/Firm Name and Address

Raison sociale et adresse du
fournisseur/de l'entrepreneur

Issuing Office - Bureau de distribution

Construction Services Division/Division des services de
construction

140 O'Connor Street

140, rue O'Connor

Ontario

Ottawa

K1A 0S5

Title - Sujet Fire Suppression System&Fire Alarm Fire Suppression System and Fire Alarm Replacement	
Solicitation No. - N° de l'invitation EP076-201304/A	Amendment No. - N° modif. 008
Client Reference No. - N° de référence du client 20201304	Date 2021-03-30
GETS Reference No. - N° de référence de SEAG PW-\$\$\$FG-374-79676	
File No. - N° de dossier fg374.EP076-201304	CCC No./N° CCC - FMS No./N° VME
Solicitation Closes - L'invitation prend fin at - à 02:00 PM Eastern Daylight Saving Time EDT on - le 2021-04-13 Heure Avancée de l'Est HAE	
F.O.B. - F.A.B. Plant-Usine: <input type="checkbox"/> Destination: <input checked="" type="checkbox"/> Other-Autre: <input type="checkbox"/>	
Address Enquiries to: - Adresser toutes questions à: Vani-Machado, Alba	Buyer Id - Id de l'acheteur fg374
Telephone No. - N° de téléphone (873) 355-4048 ()	FAX No. - N° de FAX () -
Destination - of Goods, Services, and Construction: Destination - des biens, services et construction:	

Instructions: See Herein

Instructions: Voir aux présentes

Delivery Required - Livraison exigée	Delivery Offered - Livraison proposée
Vendor/Firm Name and Address Raison sociale et adresse du fournisseur/de l'entrepreneur	
Telephone No. - N° de téléphone Facsimile No. - N° de télécopieur	
Name and title of person authorized to sign on behalf of Vendor/Firm (type or print) Nom et titre de la personne autorisée à signer au nom du fournisseur/ de l'entrepreneur (taper ou écrire en caractères d'imprimerie)	
Signature	Date

The following changes to the tender documents are effective immediately. This amendment will form part of the contract documents.

Amendment 008 is issued for the following:

- (1) Issue Addendum 3

ALL OTHER TERMS AND CONDITIONS REMAIN THE SAME

Solicitation No. - N° de l'invitation
EP076-201304/A

Amd. No. - N° de la modif.
008

Buyer ID - Id de l'acheteur
FG374

Client Ref. No. - N° de réf. du client
R.038346.011

File No. - N° du dossier
FG374 EP076-201304

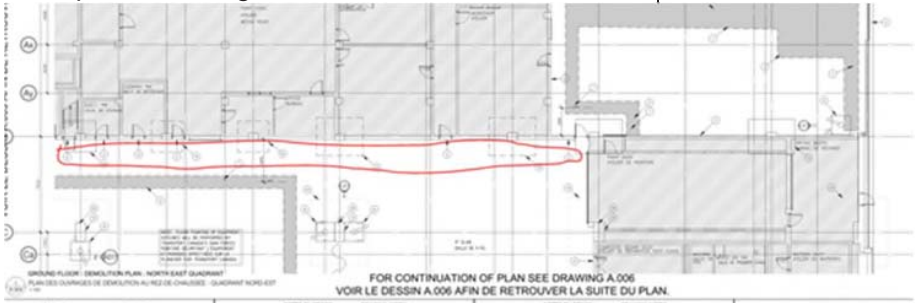
CCC No./N° CCC - FMS No./N° VME

Addendum 3

T58 Building Fire Suppression System Questions
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<p>Q1</p> <p>From drawing M.003 I see some phases to the work. Is there a document that explain the phases? From this drawing, it skip some phase #. I want to make sure I am not missing any!</p>	<p>A1</p> <p>Refer to Drawing T.000 for work phasing key plan and proposed sequence of construction phasing.</p>
<p>Q2</p> <p>From the specification section 21, the foam tank size and Foam hose station are not the same as shown on the drawing. Shall we follow what is on the drawings or in the specification?</p>	<p>A2</p> <p>Refer to drawing schedule for tank sizes. Will be clarified in addendum.</p>
<p>Q3</p> <p>Regarding the testing of the foam system and the disposal, will an incineration certificate will be required for the disposable of the 2 type of foam?</p>	<p>A3</p> <p>Yes, proof of thermal destruction meeting foam manufacturer's recommended disposal requirements shall be provided.</p>
<p>Q4</p> <p>The deluge valve to be used, Viking F-1, it is rated to 175 PSI and the fire pump selected is rated to 175 PSI at 5000 gpm. This means that at Churn (O flow) the pressure will exceed the 175 psi of the deluge valve and other devices like the sprinkler heads. Shall Pressure reducing valve be supplied at the output of the new fire pumps?</p>	<p>A4</p> <p>Yes, the new pressure reducing valves are shown on the new work plans. Symbol shown on drawing M.001 (FP-PRV), new valves shown on schematic 1/M.003, plan 1/M1.05, and elevation 3/M.105. Pressure reducing valves are noted in fire pump schedule, and specification section 21 30 00.</p>
<p>Q5</p> <p>For the new Diesel Fuel Tank, there is no outside refill platform shown on the drawings. This is a requirement from TSSA. Will a Refill platform will be required? If yes please supply the details.</p>	<p>A5</p> <p>Agreed, a platform will be required and details will be provided in addendum.</p>
<p>Q6</p> <p>We notice that the specification Fire Protection Specialties, is asking for ABC type Wheel unit.</p> <p>The ABC powder is corrosive to aluminum part that are present in Air Plane in big quantity.</p> <p>See the Tech-Tip see enclosed. We suggest to replace the ABC by Purple K type of firefighting powder.</p> <p>After checking the price, there is not a significative increase to change it.</p>	<p>A6</p> <p>This has been reviewed with Transport Canada and the new fire extinguishers in the Hangar shall be revised to CO₂ instead of ABC or Purple K. Details will follow in addendum.</p>
<p>Q7</p> <p>Will free parking be available for the worker or do we need to pay for the parking at the airport Parking?</p>	<p>A 7</p> <p>Parking is allowed in designated staging area shown on Proposed Work Phasing Key Plan 1/T000. Parking elsewhere is at contractor's expense.</p>

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<p>Q 8 For the qualification of the General Contractor (G.C.), is the experience of the subcontractor they will use, can count for the Experience for the G.C. qualification?</p>	<p>A8</p>
<p>Q 9 Please provide geotechnical report required for this project.</p>	<p>A9 Third party English only report cannot be provided.</p>
<p>Q 10 Note#2 on drawing A.004 refers to cutting slab and excavation for new drains however note on drawing is located at door locations. Please review and update drawings.</p> 	<p>A 10 Notes at door locations to be removed. Refer to addendum.</p>
<p>Q11 Please provide missing specification section# 04 22 00 for Concrete Unit Masonry.</p>	<p>A11 Noted. Refer to Addendum</p>
<p>Q12 Detail 7/A0.12 shows damp-proofing membrane at walls of exterior storage tank. Please provide specification for this item as it's not provided in specifications.</p>	<p>A12 Noted. Refer to Addendum</p>
<p>Q13 Section 3.3 under applied fireproofing spec section# 07 81 00 indicates that fireproofing to be applied to roof decks as shown in the below table from specs. Please confirm if fireproofing is to be applied to existing building roof deck or to new added room roof deck? Please clarify</p>	<p>A13 The spray fire proofing is for the existing structure where damaged as noted in the specification and on the detail drawings for the ceiling baffles. As per 3.3.8 of Section 07 81 00 apply where exiting fireproofing is disturbed. See addendum for fireproofing at new building.</p>

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<div>5 Ensure that ducts, piping, equipment, or other items which would interfere with application of fireproofing are not positioned until fireproofing work is completed.</div>							
<div>3.3 APPLICATION</div>							
<div>1 Apply bonding adhesive or primer to substrate if recommended by manufacturer.</div>							
<div>2 Apply fireproofing to correspond with tested assemblies, or acceptable calculation procedures to provide following fire resistance ratings.</div>							
<table><tr><td>Location</td><td>Rating</td><td>ULC Rating</td></tr><tr><td>Roof decks</td><td>2 hour</td><td>ULC BXUVCF816</td></tr></table>		Location	Rating	ULC Rating	Roof decks	2 hour	ULC BXUVCF816
Location	Rating	ULC Rating					
Roof decks	2 hour	ULC BXUVCF816					
<div>3 Apply fireproofing over substrate, building up to required thickness to cover substrate with monolithic blanket of uniform density and texture.</div>							
<div>4 Apply fireproofing directly to open web joists without use of expanded lath.</div>							

<div>Q14</div> <div>Please provide missing specification section# 03 35 10 for concrete floor finishing.</div>	<div>A14</div> <div>Reference to Section 03 35 10 within section 09 67 23 will be deleted via addendum. Floor finishing requirements for epoxy flooring to be in accordance with 03 30 00 Cast in Place Concrete and manufacturers requirements.</div>
<div>Q15</div> <div>Section 3.6 in painting specification section# 09 91 23 indicates the requirement to paint finished area exposed conduits, piping, hangers, etc. as indicates in section below. Please confirm if this work is required? and if so please clarify extent?</div>	<div>A15</div> <div>Refer to specific specification sections to determine extent of painting within hangar, such as, painting of foam and sprinkler piping within hangar, touch up of natural gas piping where project work affects. Addendum will be issued to clarify this specification section.</div>

<div>3.6 MECHANICAL/ELECTRICAL EQUIPMENT</div>	
<div>1 Paint finished area exposed conduits, piping, hangers, ductwork and other mechanical and electrical equipment with colour and finish to match adjacent surfaces, where indicated.</div>	
<div>2 Other unfinished areas: leave exposed conduits, piping, hangers, ductwork, and other mechanical and electrical equipment in original finish and touch up scratches and marks.</div>	
<div>3 Touch up scratches and marks on factory painted finishes and equipment with paint as supplied by manufacturer of equipment.</div>	
<div>4 Do not paint over nameplates.</div>	
<div>5 Keep sprinkler heads free of paint.</div>	
<div>6 Paint fire protection piping.</div>	
<div>7 Paint disconnect switches for fire alarm system and exit light systems in red enamel.</div>	
<div>8 Paint natural gas piping.</div>	

<div>Q16</div> <div>What is the painting work to be carried out concerning the existing Part of the building? Also, please confirm if concrete walls and metal deck at new added valve room to be painted?</div>	<div>A16</div> <div>Paint new concrete block at door infill to match adjacent walls. Clarification will be issued in addendum.</div>
<div>Q17</div> <div>Can you please confirm that the term Blastrac refers to a shot blaster Page A.001 from architectural drawing?</div>	<div>A17</div> <div>All references to Blastrac may be read synonymously as shot blast. No addendum required.</div>
<div>Q18</div> <div>On the section A-A on the drawing S102, it shows that the inner walls verticals are 15M@250mm EW and 20M@200mm and 15M@300mm for the exterior walls; but there is also a note that says 20M@225mm verticals for inner walls and</div>	<div>A18</div> <div>Section A-A/S102 has been revised, please refer to clouded areas on S102. Revised plan will be issued in addendum.</div>

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20M@250mm for the exterior walls. Can you clarify me which note is right one for the walls or if both apply?	
Q19 the change from ABC wheel unit to CO2 wheel unit, are they asking for 50 lbs or 100 lbs CO2 wheel unit, both rated at 20 B,C.	A19 It shall be 50 lbs as per specifications. Addendum to follow.
Q20 On Drawing M201 the notes for detail 3/M201 say “new 50mm schedule 40, class 1 div 1 pumped san to existing SP1/SP2 san pit”. Can you please confirm what type of pipe this is? There is no specification in Division 22 for the pumped sanitary.	A20 All below slab piping, except concrete effluent piping, shall be cast iron. Specification edit will be issued in addendum.
Q21 Also on drawing M201 there are several notes for the piping connecting from the trench drains to the manholes indicating “150 steel san”, the specification for buried sanitary is for cast iron pipe and fittings. Is the piping connecting the trench drains to the manholes cast iron or black pipe? The notes seem to indicate black but the spec says cast.	A21 See A20 above.
Q22 M201 drawing note #4 “cut out, cap and remove sections of existing abandoned effluent piping below slab” Can you please clarify what type sanitary pipe it is that is being capped?	
Q23 Detail 7/A.012 shows a different height of the storage tank concrete wall than what's shown on structural drawings. Please clarify required wall height?	A23 Dimensions shown on 7/A.012 match the structural drawings. The dimensions with the red circle is at the access hatches only and this matches the civil drawings, detail D07. The elevation on detail 7/A.012 match the elevation on one of the hatches, the other varies slightly. The dimensions on the other side of detail 7/A.012 dimensions the main part of the storage tank and match the structural. No change to the documents required.

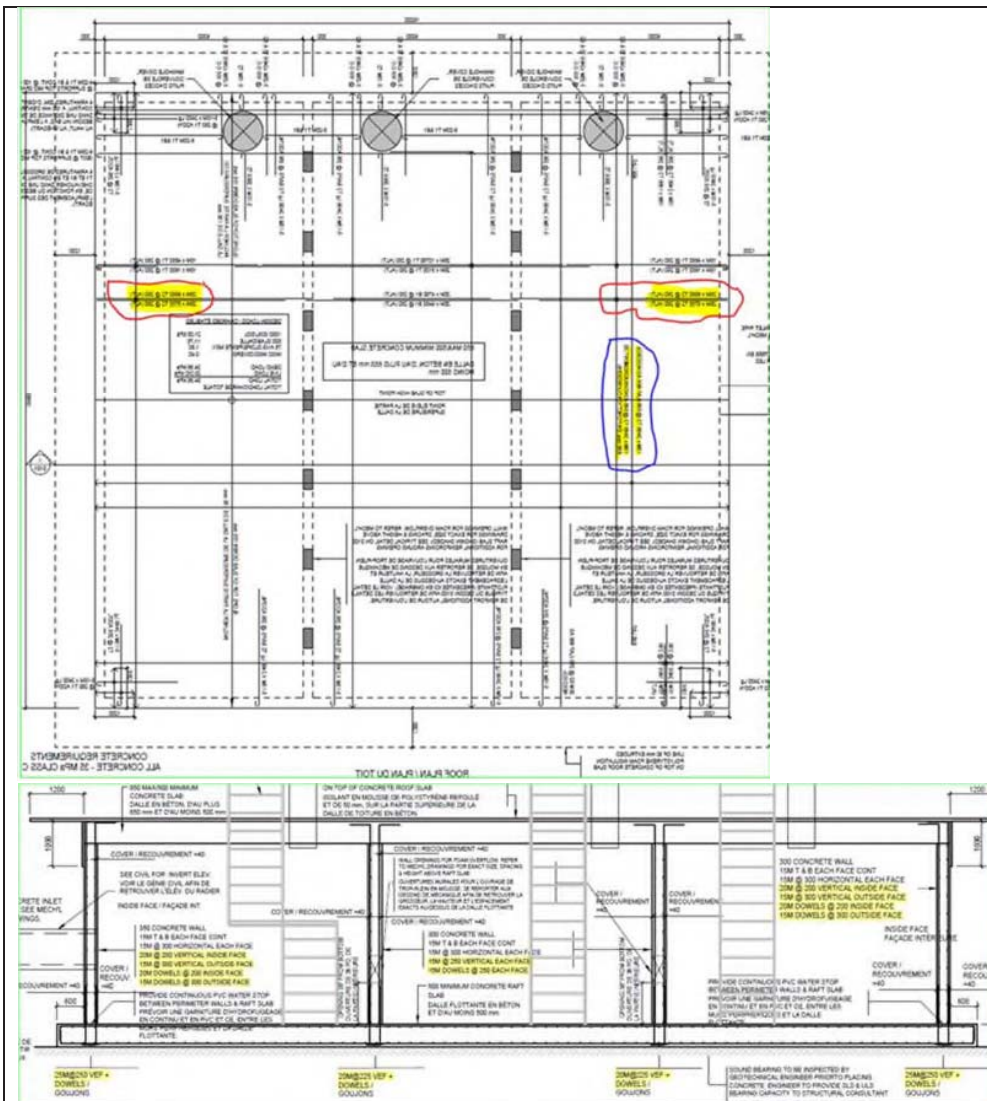
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<p>NEW STORAGE TANK SECTION DETAIL DÉTAIL EN COUPE - NOUVEAU RÉSERVOIR D'ENTREPOSAGE</p>	<p>KEY PLAN PLAN CLÉ</p>
<p>Q24 Please provide missing concrete mixes strengths required for new addition valve room footings and walls and concrete mix required for interior slab on grade to be reinstated in hanger building. Also, concrete mixes provided in spec section 03 30 00 don't match structural drawings- please review and update.</p>	<p>A24 Concrete compressive strength for the footings and above-grade walls will be revise to 25 MPa Type N. Will be changed in addendum.</p>
<p>Q25 General note#1 on drawing A.009 refers to mechanical drawings M.01 & M.02. These drawings are not provided. Please review and provide if required.</p>	<p>A25 Note will be revised via addendum to read "Coordinate work on this drawing with Structural and Mechanical drawings.</p>
<p>Q26 Note#8 on drawing A.014 for partial hanger reflected ceiling plan indicates paint finish for concrete slab. Please clarify note.</p>	<p>A26 Note 8 will be deleted in addendum.</p>

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<p>Q27 In drawing S102 – Roof Plan, in the red outlined area below it is shown 25M x 6550 T2 @ 250 (alt) & 25M x 5700 T2 @ 250 (alt).</p> <p>Should these be labelled as T2, or should they be B1?</p>	<p>A27 The reinforcing labels for the indicated rebars will be changed to B1 in addendum.</p>
<p>Q28 In drawing S102 – Roof Plan, in the blue outlined area below it is shown 15M x 2400 T2 @ 500 (lap 600 as needed). Please confirm if this note is correct and if 500mm is the required spacing?</p>	<p>A28 The indicated rebars should be dimensionless, and they are spaced at 500 o/c with 600 mm lap each end.</p>
<p>Q29 The reinforcement in the plan often shows to alternate the rebar. For example, 25M x 6550 T2 @ 250 (alt) & 25M x 5700 T2 @ 250 (alt) Does this mean that 25M x 6550 T2 @ 250 should be spaced every 250mm and 25M x 5700 T2 @ 250 also has to be spaced every 250mm, and they have to alternate with each other? Therefore, the clear distance between the two different bar lengths will be 125 mm?</p>	<p>A29 Bars are to alternate length at 250 o/c, effective spacing of 250 o/c. Will be clarified via addendum.</p>
<p>Q30 In drawing S102, section A-A/S101 – CROSS-SECTION, the wall reinforcement is shown on the side of each wall. Also bottom of each wall is shown vertical reinforcement which is different from the vertical reinforcement shown on the side of the walls. See section “A-A” below. Can you please clarify which vertical reinforcement should be used?</p>	<p>A30 We have revised our wall reinforcement in section A-A/S102, refer to clouded areas on S102 in addendum for further details.</p>

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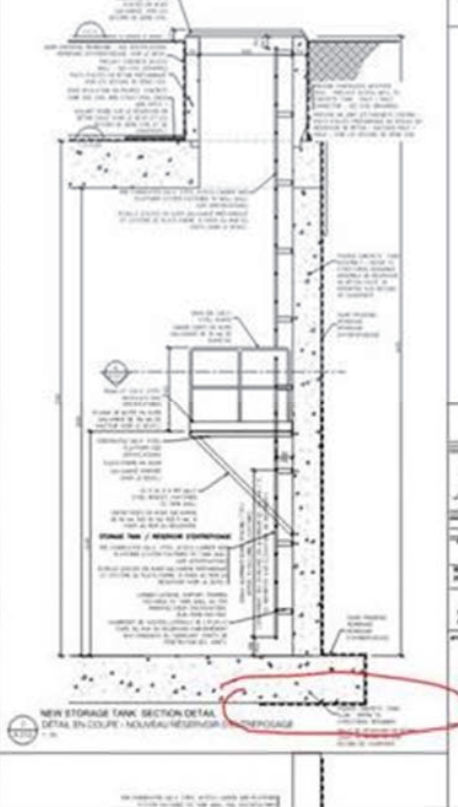
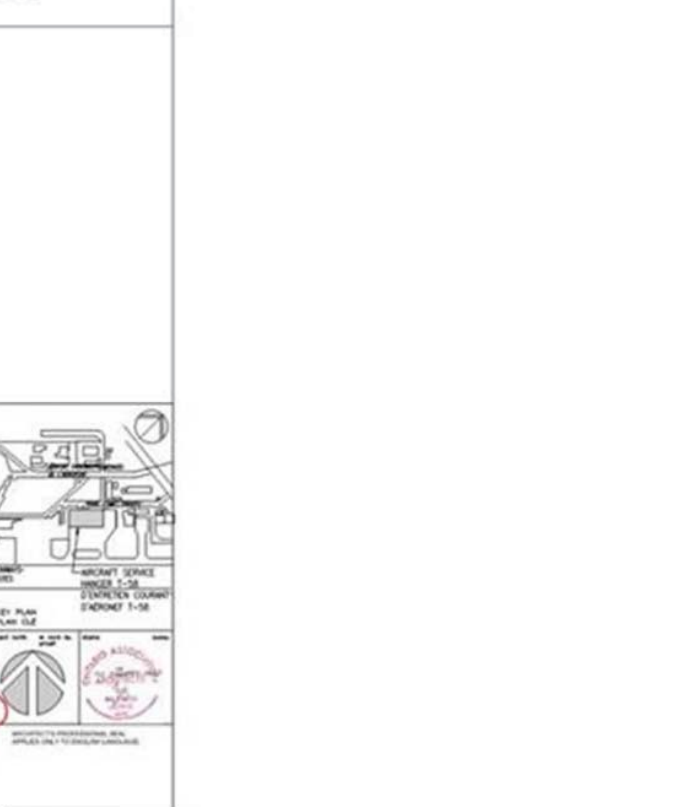
Q31

Phase plan T.000 indicates the requirement to install 300mm fire protection main pipe in phase 1A. However, work under phases 3A,B,C,D indicates rough-in for 300mm pipe. Please clarify in which phase the 300mm pipe will be completed?

A31

As indicated in the phase 1A note, the 300 mm diameter pipe must be installed in its entirety across the hangar during Phase 1A to bring water to zone valves located in the new addition.

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<p>Q32 Detail 7/A.12 shows damp-proofing membrane extending under the tank footing. Please confirm if the damp-proofing membrane has to go around the whole tank (including walls, above slab and under tank footing)?</p>	<p>A32 Damp-proof membrane to stop at bottom of footing. Part of damp-proof membrane under footing will be deleted in Addendum.</p>
 <p>NEW STORAGE TANK SECTION DETAIL DETAIL 7/A.12 - NEW STORAGE TANK SECTION DETAIL</p>	 <p>NEW STORAGE TANK SECTION DETAIL DETAIL 7/A.12 - NEW STORAGE TANK SECTION DETAIL</p>
<p>Q33 For the new 300mm sprinkler main pipe to be installed in the hanger building, can you please confirm that no additional reinforcing are required for the roof structure to account for the added pipe load?</p>	<p>A33 We have provided a supplementary support detail for the new 300 mm sprinkler main pipe, refer to the clouded areas on S301 for further details in addendum.</p>
<p>Q34 Considering that the construction of new valve room (phase 1A) and construction of new storage tank and exterior civil (phase 2) work will have some work overlap, can you please confirm if these phases (1A & 2) can be done at the same time?</p>	
<p>Q35 Similar to the above question, can you please confirm if phase 1B for building fire alarm replacement can be conducted at the same time of phase 1A & 2?</p>	<p>A35 There are currently no set time restrictions on project phasing beyond mobilization and substantial completion dates.</p>

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<p>Q36</p> <p>Drawing A.011 indicates the requirement of type W2 exterior wall metal siding 2hr F.R.R. There is no reference to fire rated metal siding in performed metal siding spec section#07 46 13. Please review and update as required.</p>	<p>A36</p> <p>The wall assembly is 2-hour fire rated and this is accomplished by the concrete wall. The siding is non-combustible only and does not contribute to rating of the wall.</p>
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