

Questions & Requests for Equals ET025-180083/A RCMP "D" Division Range Upgrade to Oct 17, 2017

Item	Date	Question	Answer
1	04/10/2017	Under section 11 67 23.1 (Shooting Range Equipment – Bullet Traps), it states that the rubber medium be treated with fire retardant. Can you please clarify if you are asking for a class-a fire retardant to be applied to the medium, or would you prefer to have a class-a fire retardant added to the medium which turns the medium to a class-a fire retardant?	Not required to be Class A. Either option is acceptable.
2	11/10/2017	Under section 11 67 23.40 (Shooting Range Equipment – Target System), it states that the target system should be self-propelled by an on-board battery management system. My question is, would a hard wired targetry system be acceptable in lieu of the battery management system?	On-board battery system is a Client requirement due to maintenance issues related hard wired systems.
3	12/10/2017	1) Elevation 15/A1.2 and detail 14/A1.2 shows an item 125mm long. Please clarify if this is a piece of hardware or an additional fixed shelf. 2) Section 18/A1.2 indicates a stainless steel countertop is required, but no dimension for the depth is indicated. The floor plan on sheet A1.0 also does not clarify. Please confirm the depth of top required. 3) Cabinet section 14 & 19/A1.2 do not indicate the depth of cabinets required. The floor plan on sheet A1.0 also does not clarify. Please clarify what depth is required.	1) Fixed shelving 2) Section 18 = 745mm 3) Section 14 = 175mm, Section 19 = 610mm
4	16/10/2017	1) We were unable to access the storage room where the ductwork connections will be for the new exhaust air. It was mentioned on site that photos would be provided of this area. 2) Can we get a clarification as to what materials will be the responsibility of the abatement contractor to remove and what materials will be the responsibility of the mechanical contractor to remove? 3) What is the weight capacity of the elevator?	1) photos attached at ATTA004. 2) The abatement contractor is responsible to clean, remove and dispose of any lead contaminated materials such as ducts in the firing range and air handling equipment in the penthouse and is responsible to remove and dispose of any materials that cannot be properly cleaned such as ceiling tiles. 3) Confirmed with BGIS, the weight capacity is 4000 lbs.
5	16/10/2017	1) ANNEX A - SECURITY REQUIREMENT CHECK LIST (SRCL) don't have any information. Please provide Annex A. 2) Do we have to apply and pay for the building permit for this project or is it by the Owner? Please advise so we can price accordingly. 3) Are you providing third party inspection and testing for this project? or Do we have to provide third party inspection and testing for this project? Generally Owner's provide third party testing and inspection for most of the projects. Please advise. 4) Is third party commissioning agent required for this project? if yes, are you providing third party commissioning agent? or Do we have to provide third party commissioning agent? Generally it is provided by the Owner. 5) We have to supply and install new mechanical units as per the mechanical drawings. How do we get the new units in the building? Please advise and provide the details if we have to create any opening & patchwork or there is any existing opening.	1) An electronic copy of the SRCL has been attached on BuyandSell. 2) The General Contractor is responsible for applying and paying for all permits and fees 3) The General Contractor is responsible for Third Party Inspections by the Manufacturer and their involvement in Commissioning is required. The Departmental Representative's Lead Consultant will do samples once the Abatement contractor has completed their work. 4) The General Contractor is responsible for providing a Commissioning Agent, The Departmental Representative will be involved in the Functional Performance Testing and review of the GC's submittals. 5) Refer to Section 23 73 23, para 2.2. Provide knock down construction if required.
6	16/10/2017	I am looking for the interested vendors list so I may provide our bid proposal to the bidding General Contractors	An electronic copy of the list of attendees at the site visit has been attached on BuyandSell.

7	16/10/2017	<p>In the Specifications and drawings, there does not appear to be any indication of the range height, measured from the finished floor to the underside of the concrete slab, or the range width from finished wall to finished wall does not appear to be in any of the drawings. I understand the intent is to have bidders confirm this themselves at the site visit, however absent another opportunity to visit the site, is there any way an approximate measurement can be given for tender response purposes?</p> <p>IN division 9, at various locations, the specifications indicate the intent to utilize "Sidearms, Pistol Calibre Carbines, and Shotguns". Is there any intent or requirement for the user to use the New Rifle Calibre Carbines, particularly chambered in 5.56mm, in this range?</p> <p>Division 9, Section 11 67 23..1, para 2.2.4 Granular Rubber Bullet Trap states Options: The top plate shall be 9.5mm (3/8") AR 500. IF this is the option, what is the default .</p> <p>Can you clarify the intent of this option? Is this to provide an option for a single service call out to do a lead removal from the berm trap?</p> <p>In Section 11 67 23..4, Part 2, para 2.2.4, the tender describes the local control screen and references an intercom and paging system. Does the intercom system supplied need to be integrated directly into the LCS unit, or can a standalone inter come system be provide as long as it meets the requirements. The intent would be locate the intercom system as close as possible to the LCS Hardware, in each shooting booth.</p> <p>In Addendum 01, Section 11 67 23.40 Part 2, para 2.2.6, the tender describes what is to happen when the photocell beam is broken. What is the expectation for returning the system to normal functioning? IS this expected to happen immediately upon the systems detection of an unbroken beam, or is there to be a reset button that must be pushed either on the target control computers, or the lighting system, or Other?</p>	<p>1) Floor to underside of concrete slab = +/- 3455mm Range length (measured from wall on gridline 5 to wall on gridline 11) = +/-36195mm Range width = +/-8685mm General Contractor to confirm all dimensions on site.</p> <p>2) No Rifles Carbines will be used in this range due to limitations of the length and existing space.</p> <p>3) Default to be 3/8" AR 500.</p> <p>4)</p> <p>5) the targeting system intent is to be intergrated, Please submitt detailed product infromation for review if you wish to have a request for equal.</p> <p>6) a reset button on the control system by the range control system will reset the target.</p>
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Division 9 and Addendum one describe the Granular Rubber Bullet Trap. They specify a minimum depth of at least 3 feet of material as measured from a horizontal angle. This depth exceeds by a considerable margin the depth required in order to guarantee containment of the stated ammunition types, at a significant additional cost. We have recently provided bullet traps to other RCMP detachments as well as Depot, which are rated for higher calibres including .223 and .308, and still do not require 3 feet of depth for containment.

1) Will a material depth that is less than this amount be acceptable if the manufacturer certifies that the depth of material provided is more than sufficient to capture the required ammunition types? This is also applicable to the requirement for 2 cu ft of rubber per sq ft of trap plate, which would exceed the actual amount needed for the specified calibres by more than 50%.

The section 11 67 23.2 for ballistic ceilings, under construction, specifies that:
When installed in hanging applications, baffles shall be suspended at 1219.2 mm (48 inch) intervals along each joint by steel cable or chain, baffles inclined no more than 30 degrees from horizontal.

2) Does this mean that baffles must be 48 inches wide, and installed tightly together, or does this mean that the anchor points where the chains connect the baffle to the ceiling must be spaced 48' on centre. Would baffles sections that are 1220mmx1220 mm, with anchor points spaced ~610mm on centre be acceptable?

At various places in Division 9, where AR 500 (500BHN) is specified.
3) Is that a nominal 500BHN, or a minimum actual 500BHN. Also, in places where 500BHN is not specified, does that presume AR 500 as per industry standard is acceptable, or is this to be a 500BHN as well?

4) Also in the ceiling baffle section, an air space of 1" is specified between the ¼" Ar 500 plate and the ¾" plywood. Is that a must be, minimum or a maximum?

Target Systems. Our review of the target system specifications indicates that while we are listed as an approved vendor, the specific requirements for the target systems are written so narrowly that only a single target system would meet the requirement. We can deliver a solution that will meet all of the performance requirements indicated, but they might not be configured exactly as is worded in the tender. Specifically, the Tender requires the red white and blue strobe lights to be integrated into the target carrier.

5) Would a target carrier system that provides these lights at a location other than on the carrier be compliant?

The tender specifies a closed loop angular feedback mechanism for target rotation.

6) Would a target carrier that uses an optical encoder for rotation location be acceptable, as long as it meets the intended requirements that the mechanism allows for the manual rotation of the target holder, with or without system power, ensuring that neither fired projectiles or manual operation of the target carrier can damage the turning mechanism?

Master Control System
The tender specifies that the master control system is to be position in the control room outside the range with a fully functional slave unit located inside the range. No additional information on the slave is provided.

7) Would a wireless hand held tablet that contains full target system control functionality be acceptable as a slave unit to be utilized inside the range?

1) RCMP to comment on this. Original conversations between Steve and structural referred to 2' deep granular rubber.

2) Baffles must be 48 inches wide and installed tightly together as per drawings.

3) Not sure what this is referencing

4) Airspace between AR 500 plate and Plywood must be 1".

5) With respect to the targeting system please submit detailed product information for request for equal.

6) please submit detailed product information for request for equal.

7) please submit detailed product information for request for equal.

8 16/10/2017

Questions & Requests for Equals ET025-180083/A RCMP "D" Division Range Upgrade to Oct 18, 2017

Item	Date	Question	Answer
1	18/10/2017	Due to the fact that our questions have not been answered this far and the tender is set to close next Tuesday, we are requesting a 10 day extension to the closing date. Since the onsite meeting, we have been in the process of compiling a list of questions that require clarification. We will be forwarding this question list onto you shortly.	Extension of Closing Yes. Extended to Nov 1, 2017 at 14:00 CDT. See solicitation amendment #002.
2	18/10/2017	1) Could we please have clarification on the abatement of the existing duct work and AHU. Will the removal of the ductwork and AHU #13 be the responsibility of the abatement contractor or the mechanical contractor. 2) Also, I am wondering about the demolition of any electrical conduits, lighting, etc. will that be part of the abatement contractor as well?	1) It is the responsibility of the abatement contractor to remove the ductwork and AHU 9 and AHU 12 as it is lead contaminated and they need to take it apart and clean and dispose. Also there is asbestos mastic on the ducts. The abatement contractor will need to dispose of the sections of ducts with mastic as asbestos waste. 2) All disconnecting and de-energizing of the electrical components ie. lighting, conduit, etc. will be the responsibility of the electrical contractor. Removal and proper disposal to be by the abatement contractor. The spec specifies these materials to be just cleaned by the abatement contractor but it can be priced for the abatement contractor to remove.
3	18/10/2017	1) We can't read security requirement check list which is issued with the addendum #1. Do we have to follow the security requirements indicated on ITB specification section SC01. 2) Is Owner going to allow us to use subcontractors which doesn't have DOS certificate and reliability status for the company and workers? 3) If yes, Do we have to pay for any escort cost for our subcontractor's workers? Please advise so we can price accordingly.	1) The successful Contractor will have to comply with the Security Requirements contained in SC01. 2) No, per item 10. b) on page 2 of the SRCL unscreened personnel are not allowed. 3) the Departmental Representative will pay for Commissionaires, scheduling will be coordinated with the RCMP, no uncleared subcontractors will be allowed.
4	18/10/2017	1. Drawing E2.3 notes #10 & #11 ask for 3 x 1 conductor #4 gauge tec. This does not exist can we use a 3 conductor #4 gauge instead? Please advise. 2. What floor is room 283 on? Where are the VFD's located? Please provide a location on floor plan drawings so we can price accordingly. 3. What type of abatement is the removal of the ACM ductwork? Please advise. 4. Does all the ducts and AHU contain asbestos? Please advise. 5. What kind of access is there to the duct shaft that is to be cleaned for lead? Please advise. 6. Do you want us to spray surfaces with an encapsulate for the areas in which we clean off lead? Please advise. 7. What is the phasing for this project? Please advise.	1) Multi conductor teck may be used however size of conductors must be minimum #3AWG copper. 2) Room 283 is located on the second floor. VFDs are provided with the air handling units. Locations for VFDs are predetermined by the AHU manufacturer. Location of drive isolation transformers to be as close as practicable to VFD. Final location to be determined on site once air handling units arrive. Addendum #3 includes a keyplan of the second floor indicating location of room 283. 3) The ACM ductwork is typically a Type 1 asbestos abatement but since the ducts are lead contaminated they are being removed as part of the lead clean-up. 4) No. The ducts in the firing range are known to have asbestos mastic. 5) There is a door on each floor to the duct shaft. 6) No. Surfaces are to be cleaned with a lead cleaning solution. 7) Lead Abatement is to be completed prior to any work in the range (phase 1) as identified in addendum #2, the contractor shall submit a detailed schedule with phasing identified to not disrupt building operations for approval by the Departmental Representative.

5	18/10/2017	<p>1) There's no ductwork section in the spec. Please provide.</p> <p>2) There's no acoustic insulation section in the spec. Please provide.</p> <p>3) The hatching shown on the new 600x600 duct in drawing 1/M1.0 is not shown in the legend on DM1.0. Is this external insulation?</p> <p>4) All demo shown on drawing DM1.0 is now being taken care of by division 2 'Lead Clean-up' as per addendum 2?</p> <p>5) In detail 1/1.0, supply ducts are to tie into air wall diffuser, but are exhaust ducts just open ended? Should we provide a birdscreen?</p>	<p>1) to be issued by addendum</p> <p>2) to be issued by addendum</p> <p>3) This is acoustic lining</p> <p>4) The Mechanical Contractor will work with the abatement contractor to remove the ductwork and AHU's and as it is lead contaminated and they need to take it apart and clean and dispose. Also there is asbestos mastic on the ducts. The abatement contractor will need to dispose of the sections of ducts with mastic as asbestos waste.</p> <p>5) The intent is to have them open ended with damper. Birdscreen can be provided.</p>
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