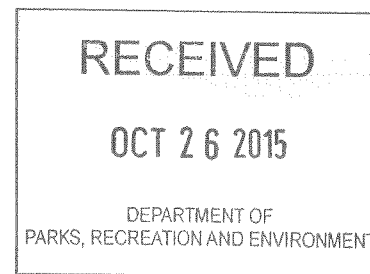


ADDENDUM
REGULAR PARKS AND RECREATION COMMISSION MEETING
BOWEN PARK COMPLEX CONFERENCE ROOM
500 BOWEN ROAD (LOWER LEVEL)
WEDNESDAY, 2015-OCT-28, COMMENCING AT 6:00 P.M.

ITEM	PAGES
12.(c) <u>Delegation – Mariner Field Lighting Project.</u>	
Add document “Mariner Field Lighting and Fencing Project” to delegation request form previously submitted.	28.1-28.6



NMBA / City of Nanaimo

Mariner Field Lighting and Fencing Project

Introduction:

Nanaimo Minor Baseball Association (NMBA) would like to take this opportunity to present and define the very exciting Mariner Field Baseball Lighting and Fence Project to the City of Nanaimo Parks and Recreation Commission (PRC)

NMBA and the City of Nanaimo (CoN) have a long standing history of working collaboratively on various projects in our community to enhance the facilities associated with the great sport of Baseball. This historic partnership dates back 59 years to the very inception of NMBA and includes collaboration on many major capital projects in the community (construction of Third Street Fields most recently) as well as the on-going operations and maintenance of the existing facilities and fields utilized by the youth baseball players in our community. This successful relationship continues today, as was evidenced by the construction of a multipurpose Pitching Bullpen facility at Third Street Field, and the current plans to expand the covered batting facility also located at Third Street.

There are many more projects that have been successfully completed by our two groups and all of these demonstrate the willingness of the CoN and the PRC to provide top level facilities for our youth to train and play baseball, as well as the clear understanding from NMBA that we must be a proactive partner to the design, development, operations and maintenance, and most importantly, funding of these facilities. This proposal will outline the Project, its Design, Objectives, Constraints, and Costs.

Project:

Mariner Field was constructed as part of the original Serauxmen Sports Fields at Third Street development. This field is a full sized baseball field and accommodates play for NMBA Midget and Bantam aged players (13 year olds – 18 year olds) as well as Vancouver Island Baseball Institute, Nanaimo Pirates Baseball Club, and the Nanaimo Senior Mens Baseball Association. This is top level playing field and compares with virtually any field surface in the province.

Currently this facility does not have a lighting configuration to accommodate evening or twilight play. Nanaimo is, in fact, behind the progress of many other island communities with respect to having a lighted baseball facility. Currently Campbell River, Courtney, Parksville, Duncan, and

Victoria all have lighted baseball facilities. Further, Baseball is one of the only sports in Nanaimo that is not accommodated a lighted field within the City of Nanaimo. NMBA has done extensive research on design elements and funding for construction of field lighting at the NMBA Serauxmen Stadium. Unfortunately due to Geotechnical Engineering constraints it is not technically feasible to install lighting at that facility. Given the required configuration of lighting at the field, Mariner field would need to become a dedicated baseball field. The lighting poles would be permanent and ultimately would impede any use on the field for soccer in the future. As such NMBA also proposes to install permanent outfield fencing at the Mariner field baseball facility. NMBA has also completed research, in conjunction with the Toronto Blue Jays Care Foundation, into the feasibility of lighting Mariner Field and this proposal will elaborate in more detail on items below;

Purpose- the purpose of this project is to develop a baseball field that will provide a venue for the youth baseball players in our community to play in the evening hours. This additional infrastructure will compliment an already top class field playing surface. This large scale project impacts our youth and provides community growth for the sport of Baseball and is more cost effective than to purchase and develop land for an additional field. Currently, Nanaimo has only two 90' diamonds, those being Serauxmen Stadium and Mariner field to host a city population of 96,000. Other cities of our size have three or four diamonds including at least one of those 90' diamonds being equipped with lights.

- **Justification-** as noted earlier Nanaimo is one of only a few communities on Vancouver Island that is without a lighted baseball facility. This type of facility is not simply just a "want". NMBA and baseball in general in the community has seen a great deal of expansion in the last 3-5 years. Currently there are 16 teams vying for playing time between Mariner Field, and the NMBA Serauxmen Stadium. With this demand it is simply not feasible to accommodate all of these teams with the required field time. Lights at Mariner would in fact open up 2 evening time slots that could be utilized to accommodate the current demand. A lighted facility would also provide a venue which could be utilized to accommodate NMBA hosting larger tournament play given the additional games that could be played. Our NMBA registration is currently at 650 youth not including the Vancouver Island Baseball Association, Nanaimo Pirates and the newly established 4 team Coal Miners Baseball Association recreational adult baseball league. Our projected growth for all age levels is upwards of 25%, which can be directly contributed to the success and popularity that the Toronto Blue Jays are currently experiencing in the Major League playoffs.
- **Design-** Musco lighting has provided the attached preliminary design drawings for the eight (8) pole locations required at the Mariner field.

- **Objectives-** the objectives of NMBA are as follows;
 - Secure grant funds of \$150,000 from the Toronto Blue Jays Care Foundation as financial support. This will also bode well for NMBA securing long term involvement of the Toronto Blue Jays Honda Super Camps for our youth. We have already hosted 2, and with the Jays involvement in the field, undoubtedly there will be much more involvement on the field for the kids. In January of 2015, we, the NMBA, applied for and made round 2 for the Blue Jays Care Foundation grant money of \$150,000.00 for this particular project. We were declined for 2015, however, the Blue Jays advised to re-apply as they are very interested in investing in our community. They've recommended we approach local Authorities Having Jurisdictions to seek approvals and request additional monies to complete the project. After which, we believe the Toronto Blue Jays would accept our proposal.
 - Secure, via this proposal, \$175,000 from the City of Nanaimo PRC to complete the funding requirements for this project.
 - Secure corporate support and sponsorship as well as in kind services from the baseball community at large to support in the construction of both the lighting as well as the permanent fencing requirements for Mariner field. We have received in kind donations for Structural and Electrical services provided by Herold Engineering Limited and RB Engineering Ltd respectfully. We are currently in discussions with the dean of trades for the Vancouver Island University as their program is interested in assisting NMBA with trade and machine hours required to complete the excavations and erection of the light poles.
- **Constraints**
 - VIU was instrumental in the original development of the Mariner field as they donated \$200,000.00 in trades and machine time to assist NMBA and the City of Nanaimo in the development. As a result, VIU has had access to utilize the soccer field locate at Mariner Field as well as naming rights.
 - Currently CoN has a signage by-law preventing advertising at the Mariner field location. A key piece of this project is securing corporate support in return for advertising. Our goal would be to include sponsorship signage on the new perimeter exterior fencing so we may generate funds require for further development of this baseball facility. Bleacher sections, pitcher pen areas, warning tracks, etc.
 - We request support from the City of Nanaimo in the lighting and fencing project of Mariner field. We require the city bylaws to be revised to include for the Mariner field to be a lighted and fully fenced baseball facility to assist our youth in the growth and development of baseball.

Financials- The B-Class cost estimates for the project are \$325,000.00 in total. We have an estimate and design already provided by Musco lighting from Vancouver for \$260,000.00 to provide all materials required for the lights and poles themselves, delivered to Nanaimo. We have also received in kind donations for Structural and Electrical services provided by Herold Engineering Limited and RB Engineering ltd respectfully. We are currently in discussions with the dean of trades for the Vancouver Island University as their program is interested in assisting NMBA with trade and machine hours required to complete the excavations and erection of the light poles.

Item	Expense	Revenue/Source
Musco Lighting	260,000	150000 BJC / 110,000 CoN PRC
Lighting Install	65,000	65,000 CoN PRC
Fencing Material		
Fencing Labor		
Total		

Table 1

Request for PRC Support:

This proposal requests support from the CoN PRC for a total of \$175,000. As is demonstrated in table 1 above \$110,000 is proposed to be allocated to the direct costs of the lighting materials, and \$65,000 is proposed to be allocated to the installation related costs. The support provided by CoN PRC is integral to the success of this must needed project.

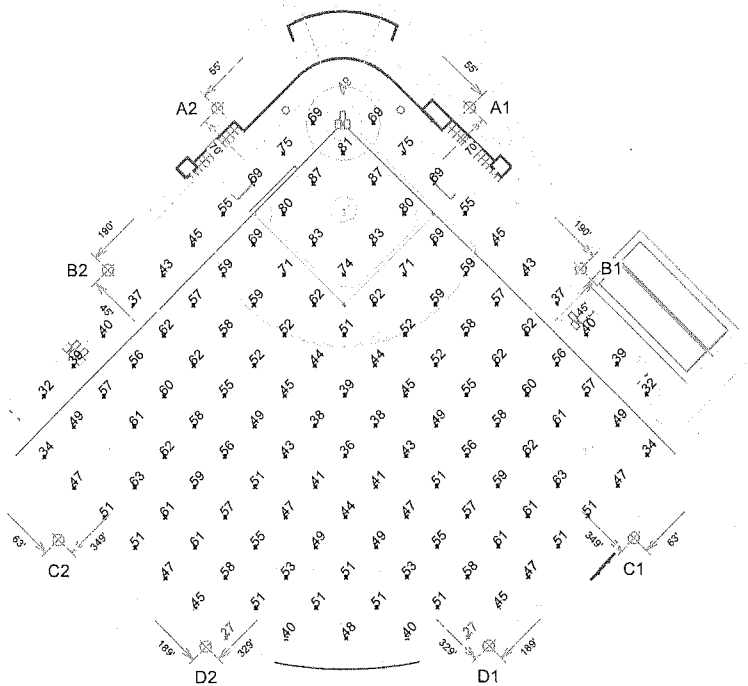
Summary:

The successful completion of this project is something that is vital to the growth and sustainability of Baseball in our community. A project of this nature not only accommodates the demonstrated growth trends in our community but also instills a “flagship” sense of pride that comes with having a top class facility with the provision of field lighting.

This project, and the equitable cost sharing arrangement it provides lifts the full burden of these costs from the CoN PRC annual budgets. NMBA recognizes it roles and responsibilities in being a proactive partner with the CoN in the development of this project and requirement for NMBA to ensure every avenue is explored to provide cost effective and efficient solutions while also sharing in the funding of these facilities.

EQUIPMENT LIST FOR AREAS SHOWN

QTY	LOCATION	Pole			Luminaires			OTHER GRIDS
		SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LAMP TYPE	QTY / POLE	THIS GRID	
2	A1-A2	70'	-	70'	1500W MZ	7	7	0
2	B1-B2	80'	-	80'	1500W MZ	13	13	0
4	C1-C2	70'	-	70'	1500W MZ	7	7	0
8	TOTALS					68	68	0



MY PROJECT

Name: Mariner Field (based on approved design)
Location: Nanaimo, BC

GRID SUMMARY

Name: Baseball
Size: 330'/380'/330' - basepath 90'
Spacing: 30.0' x 30.0'
Height: 3.0' above grade

CONSTANT ILLUMINATION

SUMMARY	HORIZONTAL FOOTCANDLES	
	Infield	Outfield
Guaranteed Average:	70	50
Scan Average:	71.34	50.45
Maximum:	89	63
Minimum:	49	27
Avg / Min:	1.45	1.88
Guaranteed Max / Min:	2	2.5
Max / Min:	1.80	2.34
UG (adjacent pts):	1.40	1.91
CU:	0.71	
No. of Points:	25	107

LUMINAIRE INFORMATION

Luminaire Type: Green Generation
Design Usage Hours: 5,000 hours
Design Lumens: 134,000
Avg Lamp Tilt Factor: 1.000
No. of Luminaires: 68
Avg KW: 106.35 (115.6 max)

Guaranteed Performance: The Guaranteed Average CONSTANT ILLUMINATION described above is guaranteed for the design usage hours of the system.

Field Measurements: Illumination measured in accordance with IESNA LM-5-04 and CIBSE LG4. Individual values may vary. See the Warranty document for details.

Electrical System Requirements: Refer to Amperage Draw Chart and/or the "Musco Control System Summary" for electrical sizing.

Installation Requirements: Results assume +/- 3% nominal voltage at line side of the ballast and structures located within 3 feet (1m) of design locations.

ENGINEERED DESIGN

By: Ryan A. Marsh, LC
File # / Date: 17213888

15-Dec-14

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ILLUMINATION SUMMARY



SCALE IN FEET 1 : 100



Pole location(s) + dimensions are relative to 0,0 reference point(s) ⊗



MY PROJECT
 Name: Mariner Field (based on approved design)
 Location: Nanaimo, BC

EQUIPMENT LAYOUT
INCLUDES:
 • Baseball
Electrical System Requirements: Refer to Amperage Draw Chart and/or the "Musco Control System Summary" for electrical sizing.
Installation Requirements: Results assume +/- 3% nominal voltage at line side of the ballast and structures located within 3 feet (1m) of design locations.

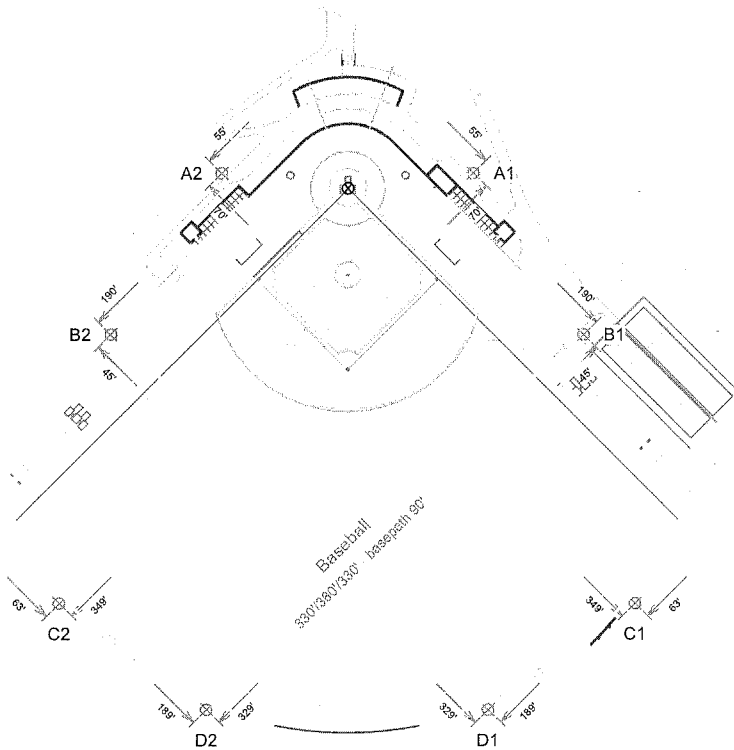
EQUIPMENT LIST FOR AREAS SHOWN						
Pole			Luminaires			
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LAMP TYPE	QTY / POLE
2	A1-A2	70'	-	70'	1500W MZ	7
2	B1-B2	80'	-	80'	1500W MZ	13
4	C1-C2	70'	-	70'	1500W MZ	7
8	D1-D2	70'	-	70'	1500W MZ	7
TOTALS						68

SINGLE LUMINAIRE AMPERAGE DRAW CHART							
Ballast Specifications (.80 min power factor)		Line Amperage Per Luminaire (max draw)					
Single Phase Voltage		208 (60)	220 (60)	240 (60)	277 (60)	347 (60)	480 (60)
1500 watt MZ		8.6	8.3	7.5	6.5	5.1	4.7

ENGINEERED DESIGN
 By: Ryan A. Marsh, LC
 File # / Date: 17213888 15-Dec-14

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EQUIPMENT LAYOUT



SCALE IN FEET 1 : 100
 0' 100' 200'

Pole location(s) ⊕ dimensions are relative to 0,0 reference point(s) ⊗

28.6