



CITY OF WILLMAR, MINNESOTA  
REQUEST FOR COMMITTEE ACTION

Agenda Item Number: 4

Meeting Date: May 26, 2015

Attachments:  Yes No

CITY COUNCIL ACTION

Date: June 1, 2015

- Approved  Denied  
 Amended  Tabled  
 Other

Originating Department: Engineering

Agenda Item: Project No. 1405 – Change Order #1

Recommended Action: Approve Change Order #1 for the Industrial Park 4<sup>th</sup> Addition Project No. 1405

**Background/Summary:** Project No. 1405 was awarded on November 3<sup>rd</sup>, 2014 to R&R Excavating and included the construction of new streets, utilities, and industrial lots. Staff noted some minor extra work was required to remove and dispose of concrete encountered while installing the sanitary sewer, additional excavation for field elevation, and reinstalling hydrants. Change Order No. 1 was submitted in the amount of \$5,800.00 for the additional work.

**Alternatives:** Do not approve Change Order No. 1

**Financial Considerations:** The funding associated with the project includes Local Option Sales Tax Funds and is within the budget.

Preparer: Sean E. Christensen, P.E.  
Public Works Director

Signature: 

Comments:

**CONTRACTOR'S PAY REQUEST**

INDUSTRIAL PARK, 4TH ADDITION  
 CITY OF WILLMAR, MN  
 BMI PROJECT NO. W18.107641

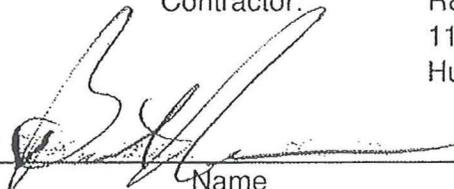
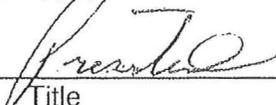
<b>DISTRIBUTION:</b>
CONTRACTOR (1)
OWNER (1)
ENGINEER (1)

TOTAL AMOUNT BID PLUS APPROVED CHANGE ORDERS	\$3,663,490.57
TOTAL, COMPLETED WORK TO DATE	\$1,054,153.25
TOTAL, STORED MATERIALS TO DATE	\$0.00
DEDUCTION FOR STORED MATERIALS USED IN WORK COMPLETED	\$0.00
TOTAL, COMPLETED WORK & STORED MATERIALS	\$1,054,153.25
RETAINED PERCENTAGE ( 5% )	\$52,707.66
TOTAL AMOUNT OF OTHER PAYMENTS OR (DEDUCTIONS)	\$0.00
NET AMOUNT DUE TO CONTRACTOR TO DATE	\$1,001,445.59
TOTAL AMOUNT PAID ON PREVIOUS ESTIMATES	\$98,154.94
PAY CONTRACTOR AS ESTIMATE NO. 2	\$903,290.65

**Certificate for Partial Payment**

I hereby certify that, to the best of my knowledge and belief, all items quantities and prices of work and material shown on this Estimate are correct and that all work has been performed in full accordance with the terms and conditions of the Contract for this project between the Owner and the undersigned Contractor, and as amended by any authorized changes, and that the foregoing is a true and correct statement of the contract amount for the period covered by this Estimate.

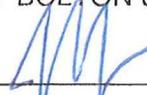
Contractor: R&R Excavating, Inc.  
 1149 Hwy. 22 South  
 Hutchinson, MN 55350

By  Name \_\_\_\_\_  
 Title \_\_\_\_\_

Date 5-14-15

**CHECKED AND APPROVED AS TO QUANTITIES AND AMOUNT:**

ENGINEER: BOLTON & MENK, INC., ENGINEERS, 2040 E HWY 12, WILLMAR, MN 56201.

By  \_\_\_\_\_, PROJECT MANAGER

Date 5/11/15

**APPROVED FOR PAYMENT:**

OWNER:

By  Name \_\_\_\_\_ CITY ENGINEER \_\_\_\_\_ Date 5.21.15

# CHANGE ORDER

No.1 (ONE)

PROJECT INDUSTRIAL PARK, 4<sup>TH</sup> ADDITION  
 DATE OF ISSUANCE 5/8/15 EFFECTIVE DATE 5/8/15

OWNER City of Willmar

OWNER's Contract No. BMI Project # W18.107641

CONTRACTOR R&R Excavating

ENGINEER Bolton & Menk, Inc.

You are directed to make the following changes in the Contract Documents.

Description: See Exhibit A- Change Order No. 1

Reason for Change Order:

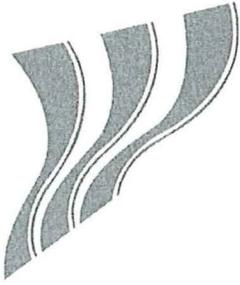
- 1.) Remove & dispose of concrete rubble that was encountered while installing sanitary sewer on Willmar Ave.
- 2.) Field elevation of watermain at Trott Ave was found to be 13' deep instead of 7' deep which required additional excavation and crew time.
- 3.) Hydrants proposed to be salvaged were reinstalled at the west end of Willmar Ave, Trott Ave and 3<sup>rd</sup> Ave.
- 4.) Field elevation of watermain at Willmar Ave found to be 11' deep instead of 7' deep which required additional excavation and crew time.

CHANGE IN CONTRACT PRICE:	CHANGE IN CONTRACT TIMES:
Original Contract Price <u>\$3,657,690.57</u>	Original Contract Times Substantial Completion: <u>October 30, 2015</u> Ready for final payment: <u>June 24, 2016</u> <small>days or dates</small>
Net changes from previous Change Orders No. <u>0</u> to No. <u>0</u> <u>\$0.00</u>	Net changes from previous Change Orders No. <u>0</u> to No. <u>0</u> <u>N/A</u> <small>days</small>
Contract Price Prior to this Change Order <u>\$3,657,690.57</u>	Contract Times prior to this Change Order Substantial Completion: <u>October 30, 2015</u> Ready for final payment: <u>June 24, 2016</u> <small>days or dates</small>
Net Increase of this Change Order <u>\$5,800.00</u>	Net Increase of this Change Order <u>N/A</u> <small>Days</small>
Contract Price with all approved Change Orders <u>\$3,663,490.57</u>	Contract Times with all approved Change Orders Substantial Completion: <u>October 30, 2015</u> Ready for final payment: <u>June 24, 2016</u> <small>days or dates</small>

RECOMMENDED:  
 By: [Signature]  
Engineer (Authorized Signature)  
 Date: 5/11/15

APPROVED:  
 By: [Signature]  
Owner (Authorized Signature)  
 Date: 5.21.15

ACCEPTED:  
 By: [Signature]  
Contractor (Authorized Signature)  
 Date: 5-11-15



CITY OF WILLMAR, MINNESOTA  
REQUEST FOR COMMITTEE ACTION

Agenda Item Number: 5

Meeting Date: May 26, 2015

Attachments:  Yes  No

CITY COUNCIL ACTION

Date: June 1, 2015

- |                                   |                                 |
|-----------------------------------|---------------------------------|
| <input type="checkbox"/> Approved | <input type="checkbox"/> Denied |
| <input type="checkbox"/> Amended  | <input type="checkbox"/> Tabled |
| <input type="checkbox"/> Other    |                                 |

Originating Department: Waste Treatment

Agenda Item: Facilities Plan for Lift Station Replacements Progress Update

Recommended Action: For information only.

**Background/Summary:** The Facilities Plan provided by Donohue & Associates details a Lift Station Needs Assessment for replacing four existing lift stations over the next five years. The purpose of the plan is to satisfy requirements of Chapter 7077.0272- Facilities Plan for Wastewater Treatment Systems and receive MPCA approval.

Alternatives: N/A

**Financial Considerations:** The City intends to apply for funding under the State Revolving Fund administered by the Minnesota Public Facilities Authority and the MPCA.

Preparer: Sean E. Christensen, P.E.  
Public Works Director

Signature: 

Comments:

**City of Willmar, Minnesota**

333 6<sup>th</sup> Street SW /Willmar, MN 56201



## **Facilities Plan Lift Station Replacements**

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**Date – DRAFT May 20, 2015**



Prepared by:

**Donohue & Associates, Inc.**

3311 Weeden Creek Road / Sheboygan, WI 53081  
donohue-associates.com

Donohue Project No.: 12898

## BACKGROUND

The Willmar Waste Water Treatment Facility (WWTF) serves the City of Willmar (population 20,300) and the Eagle Lake Sanitary District, including the developed area surrounding Eagle Lake, Willmar Lake and Foot Lake. The wastewater collection system consists of approximately 100 miles of gravity sanitary sewer pipes and 24 lift stations and associated force mains. The City of Willmar owns and operates 15 of the lift stations and operates an additional 9 Eagle Lake lift stations that are owned by Kandiyohi County. The City's wastewater plant operations staff is responsible for the operation and maintenance of all 24 stations.

This Facilities Plan is preceded by several previous planning documents, as listed below:

- Willmar Wastewater Collection and Treatment Facilities Plan, May 1, 2006
- City of Willmar Comprehensive Collection System Plan, September 5, 2006
- Lift Station Needs Assessment, September 5, 2006
- Lift Station Improvement Follow-up, June 12, 2007
- Annual Capital Improvement/Expenditure Summaries

Based on the Lift Station Needs Assessment and other planning documents, along with knowledge gained from operating and maintaining the lift stations, the City plans to replace four of the existing lift stations over the next five years. The lift stations are showing signs of deterioration due to the corrosive environment and age of the equipment. The purpose of the Lift Station Replacement project is to improve safety of the existing structures and replace facilities that are near the end of their reliable operation lives. The improvements will enable the City to meet the wastewater needs of the community and protect the environment from sanitary sewer overflows. The lift stations being considered for replacement include:

- Fairgrounds Lift Station and Force Main
- Armory Lift Station
- Gordon Avenue Lift Station
- Westwood Court Lift Station

The City intends to apply for funding under the State Revolving Fund (SRF) administered by the Minnesota Public Facilities Authority (PFA) and Minnesota Pollution Control Agency (MPCA). All projects using PFA funding must have an approved Facilities Plan.

The purpose of this Facilities Plan is to satisfy the requirement of Chapter 7077.0272 – Facilities Plan for Wastewater Treatment Systems and receive MPCA approval. This Facilities Plan covers the four previously listed lift stations; although funding requests will be made for each individual lift station in subsequent years beginning in 2015.

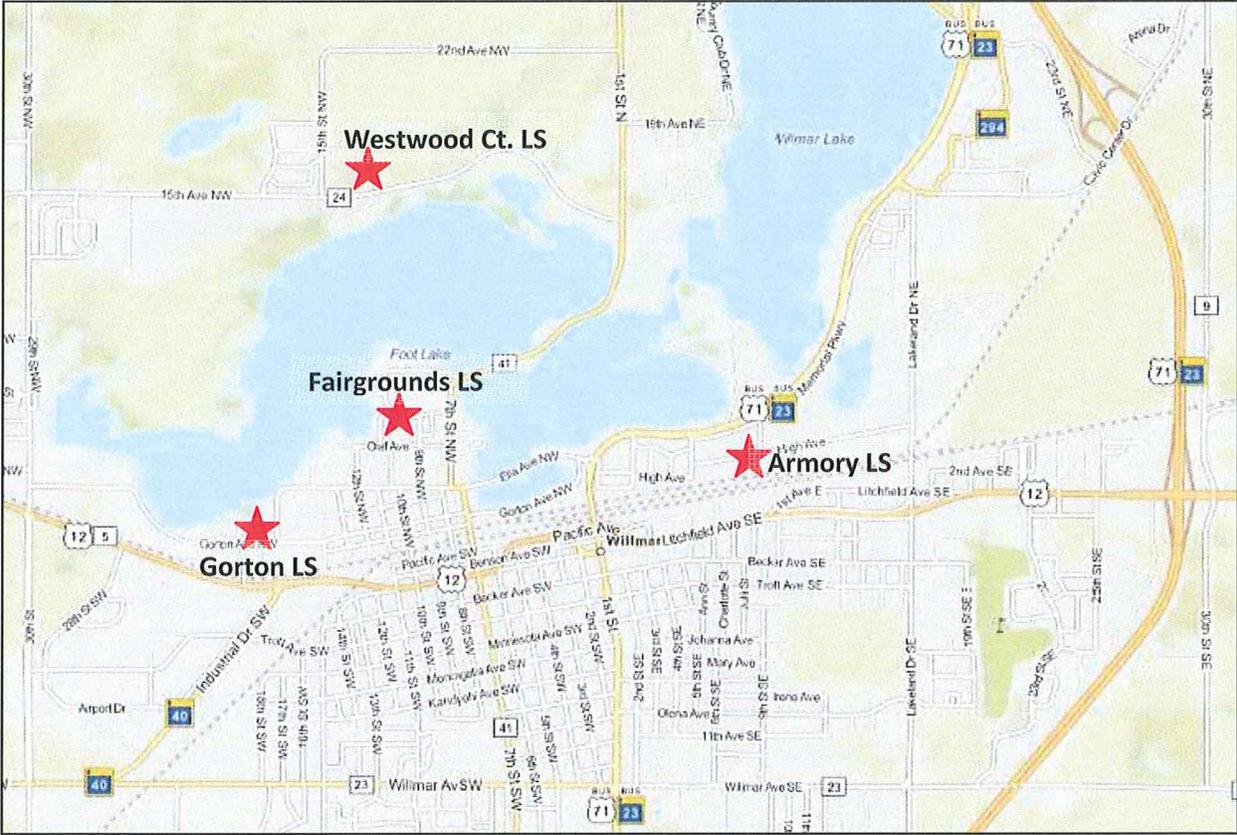


Figure 1-1 Lift Station Locations

## PROJECT SUMMARY

All of the existing lift stations are proposed to be replaced with new submersible pump lift stations with a concrete wet well and valve vault in the same general location as the existing lift stations. Each lift station replacement project will include excavation and placement of precast reinforced concrete valve vault and wet well structures, underground piping, and electrical conduit. The lift station controls will be located aboveground, adjacent to the valve vault and wet well structures. A roof will be provided over the control panel.

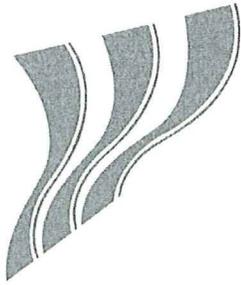
The existing Westwood Court lift station is located within the 15th Avenue NW right-of-way. The wet well is located in the middle of the road in a "sag" in the roadway alignment. The City intends to move the lift station structures to be outside of the road pavement and also to be at a higher elevation to prevent the structures from flooding. To accomplish this, the City will need to acquire land from the adjacent property owner, Langsjoen-Hogan Trust. The adjacent property is currently used for agricultural purposes. The Westwood Court Lift Station replacement is scheduled for construction in 2016. The pumps will be designed for a peak flow of 560 gallons per minute (gpm) at 115 ft. Total Dynamic Head (TDH)

The Westwood Court Lift station project also includes a new 3500 foot long forcemain to direct flow from the Radio Station lift station towards the Westwood Court lift station. This change results in less flow toward Country Club lift station and the Lakeland Interceptor, relieving capacity issues for those facilities. The forcemain will be constructed mainly within the 15th Avenue NW road right-of-way.

The existing Fairgrounds lift station is located just south of the Kandiyohi County Fair complex on a parcel of land owned by the City of Willmar. This parcel is located outside of the fence surrounding the fairgrounds. The proposed lift station will be constructed adjacent to the existing lift station and will not require any additional property acquisition. The Fairgrounds Lift Station replacement project is planned for construction in 2017. The pumps will be designed for a peak flow of 200 gpm at 20 ft. TDH.

The existing Armory lift station is located on High Avenue road right-of-way in an Industrial zoning district. The proposed lift station will be located in the same general area. If the proposed lift station design includes an above-ground control panel with a roof, the City may need to acquire a permanent easement from the adjacent railroad property in order to meet roadway clear zone and safety requirements. The Armory Lift Station is planned for construction in 2018. The pumps will be designed for a peak flow of 100 gpm at 35 ft. TDH.

The existing Gorton Avenue lift station is located on road right-of-way in an Industrial zoning district. The proposed lift station will be located in the same general area. If the proposed design including an above-ground control panel with a roof is implemented, the City will need to acquire a permanent easement or purchase land from the adjacent property owner, West Central Steel, Inc. or move the lift station across the street to City-owned park property. The Gorton Avenue Lift Station is planned for construction in 2019. The pumps will be designed for a peak flow of 100 gpm at 25 ft. TDH.



CITY OF WILLMAR, MINNESOTA  
REQUEST FOR COMMITTEE ACTION

Agenda Item Number: 6

Meeting Date: May 26, 2015

Attachments:  Yes  No

CITY COUNCIL ACTION

Date: June 1, 2015

- Approved
- Amended
- Other
- Denied
- Tabled

Originating Department: Engineering

Agenda Item: Facilities Master Plan Recommendation

Recommended Action: Approve the recommendation of CR-BPS for the Comprehensive Facilities Master Plan, authorize signatures of the Mayor and Administrator to execute an agreement.

Background/Summary: Staff advertised a Request for Proposals in November, 2014 for consultant services from experienced planning professionals interested in performing professional services related to developing a Comprehensive Facilities Master Plan. Services include analysis of the City's building facilities, land, and physical plant operations in order to prioritize needs for modernization, replacement and growth. Proposals were submitted by four firms and reviewed and evaluated by a staff selection committee, with CR-BPS Inc. of Minneapolis chosen as the recommended firm for the project.

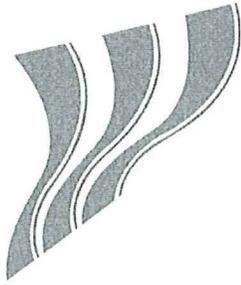
Alternatives: 1. Select a different firm for the project  
2. Delay the project

Financial Considerations: \$50,000 has been allotted in the budget for the project.

Preparer: Sean E. Christensen, P.E.  
Public Works Director

Signature:

Comments:



CITY OF WILLMAR, MINNESOTA  
REQUEST FOR COMMITTEE ACTION

Agenda Item Number: 7

Meeting Date: May 26, 2015

Attachments: Yes  No

CITY COUNCIL ACTION

Date: June 1, 2015

- Approved
- Amended
- Other
- Denied
- Tabled

Originating Department: Civic Center

Agenda Item: Civic Center HVAC Bids Expected May 27<sup>th</sup>

Recommended Action: For information at this time. Bids will be presented at the June 1<sup>st</sup> Council Meeting for approval.

Background/Summary: Staff solicited bids for the Civic Center HVAC improvements on May 4th with a deadline for receipt of bids set as May 27th. The work generally consists of replacing the dehumidification system at the Cardinal Arena, providing a new dehumidification system in the Blue Line Arena, infrared heater adjustments, replacing outdated electrical equipment in the Cardinal Arena, and a new ventilation system.

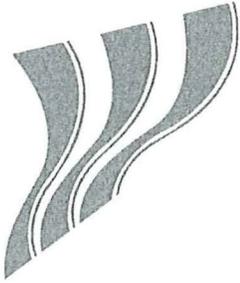
Alternatives: N/A

Financial Considerations: The 2015 CIP includes funds for the Civic Center HVAC project.

Preparer: Sean E. Christensen, P.E.  
Public Works Director

Signature:

Comments:



CITY OF WILLMAR, MINNESOTA  
REQUEST FOR COMMITTEE ACTION

Agenda Item Number: 8

Meeting Date: May 26, 2015

Attachments:  Yes No

CITY COUNCIL ACTION

Date: June 1, 2015

- Approved  Denied  
 Amended  Tabled  
 Other

Originating Department: Engineering

Agenda Item: Accept Bid and Award Contract for utility improvements at 313 4<sup>th</sup> Street SW

Recommended Action: Accept the bid from Land Pride Construction for the utility improvements at 313 4<sup>th</sup> Street SW and authorize the Mayor and Administrator to execute the necessary documents.

Background/Summary: Staff solicited quotes for the fire line and water service installation at 313 4<sup>th</sup> Street SW on May 8<sup>th</sup>. Four quotes were received, with the lowest being from Land Pride Construction in the amount of \$24,758.00. The additional bidders were Quam Construction in the amount of \$31,820.98, Duinick, Inc. in the amount of \$46,825.00, and Vreeman Construction in the amount of \$59,650.00.

Alternatives: 1. Delay the improvements

Financial Considerations: \$30,000 has been bonded for the project and is 100% assessed.

Preparer: Sean E. Christensen, P.E.  
Public Works Director

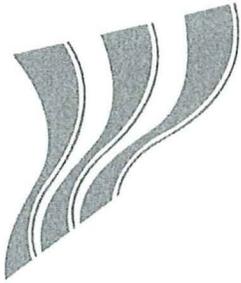
Signature: 

Comments:

**CITY OF WILLMAR  
HISTORIC 313 4<sup>TH</sup> STREET SW  
FIRE LINE AND WATER SERVICE ABANDONMENT IMPROVEMENTS  
QUOTE**

**Bids Close: MAY 19<sup>th</sup>, 2015**

<u>BIDDER</u>	<u>BID TOTAL</u>	<u>REMARKS</u>
Land Pride Construction Paynesville, MN 56362	\$24,758.00	
Quam Construction Willmar, MN 56201	\$31,820.98	
Duininck Inc. Prinsburg, MN 56281	\$46,825.00	
Vreeman Construction Willmar, MN 56201	\$59,650.00	



CITY OF WILLMAR, MINNESOTA  
REQUEST FOR COMMITTEE ACTION

Agenda Item Number: 9

Meeting Date: May 26, 2015

Attachments:  Yes  No

CITY COUNCIL ACTION

Date: June 1, 2015

- Approved
- Amended
- Other
- Denied
- Tabled

Originating Department: CER

Agenda Item: Dog Fence Construction at Lion's Park

Recommended Action: Approval of the construction of a fence for the new dog park at the Lion's Park by Andi's FenceAll in the amount of \$21,495.55.

Background/Summary: Part of the Park Development Plan includes the creation of a dog park at Lion's Park. One quote was received to construct a chain-link commercial grade fence by Andi's FenceAll from Glenwood in the amount of \$21,495.55.

Alternatives: Delay the purchase

Financial Considerations: \$150,000 was budgeted in the CIP for Park Development and included the purchase and construction of the fence.

Preparer: Sean E. Christensen, P.E.  
Public Works Director

Signature:

Comments:



17864 210 Ave.  
Glenwood, MN 56334

# Estimate

Date	Estimate #
5/8/2015	611

Name / Address

Steve Brisendines  
1234 Kandiyohi Ave SW  
Willmar, MN 56201

Item	Description	Qty	Cost	Total
514882	2x8x5 KK BLKVINYL 50 roll	1,518	2.85777	4,338.09
675132	1 5/8 x 21 SE Black CQ-20	1,533	1.79975	2,759.02
675782	1 7/8 x 8' Blk CQ-20	146	19.31397	2,819.84
675782	1 7/8 x 8' Blk CQ-20	15	33.53067	502.96
609332	5/8" x 58" Tension Bar blk Spectra	24	3.44083	82.58
600042	2 3/8 BLACK Tension Band	96	0.7224	69.35
603922	1 7/8 x 1 5/8 P.S. Eyetop Blk	144	1.87917	270.60
600842	2 3/8 BLACK Brace Band	48	0.79104	37.97
606912	1 5/8 Black P.S. Rail Ends	24	1.86208	44.69
601942	2 3/8 DC Cap BLK	15	1.47933	22.19
010701	5/16"x1-1/4" Carriage Bolts.	200	0.0877	17.54
480602	6GA Coil Spring 1000' Hvymilblk	2	129.905	259.81
624822	5/15 x 1 1/4 Carriage Bolt BLK	12	3.19167	38.30
641402	12' x5' Ind Double Gate 1 5/8" CQ/Str Permafused Black	2	561.495	1,122.99
640032	4'x5' Ind Single Gate 1 5/8" CQ/Str Permafused II - Black	1	243.81	243.81
640062	5'x5' Ind Single Gate 1 5/8" CQ/Str Permafused II- Blk	2	262.245	524.49
600232	2 3/8 x1 5/8-1 7/8 Bulldog Blk Polyester	14	12.50071	175.01
017219	Ind. Drop Bar Latch For DDG	2	22.61	45.22
480562	1 5/8x2 3/8 PS FRK LTCH PVCBLK	3	8.68	26.04
626062	BLACK TOUCH UP PAINT	1	8.42	8.42

We require \$13793.35 down payment to order the materials and balance due when project is complete.

**Subtotal**

**Sales Tax (6.875%)**

**Total**

Phone #  
320-634-0809

E-mail  
fenceall@gmail.com



17864 210 Ave.  
Glenwood, MN 56334

# Estimate

Date	Estimate #
5/8/2015	611

Name / Address

Steve Brisendines  
1234 Kandiyohi Ave SW  
Willmar, MN 56201

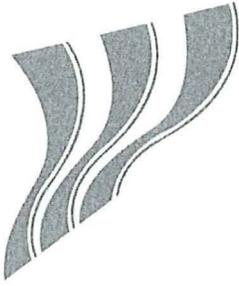
Item	Description	Qty	Cost	Total
0000-842-303	50 lb fast setting concrete mix	30	6.99	209.70T
HC01	Delivery Charge	1	150.00	150.00T
Labor 5' Comm Dr...	Install 5' X 1518' Commercial Chainlink Fence 2 - 12 X 5 Double Drive, Gates, 2 - 5 X 5 Walk Gates, 1- 5 X 4 Walk Gate, with Top Rail, tension wire on bottom. Term and Gate Posts to be in 3 ft Concrete footings and all Line Posts to be driven 3 ft deep..	1,556	4.95	7,702.20

We require \$13793.35 down payment to order the materials and balance due when project is complete.

<b>Subtotal</b>	\$21,470.82
<b>Sales Tax (6.875%)</b>	\$24.73
<b>Total</b>	\$21,495.55

Phone #  
320-634-0809

E-mail  
fenceall@gmail.com



CITY OF WILLMAR, MINNESOTA  
REQUEST FOR COMMITTEE ACTION

Agenda Item Number: 10  
Meeting Date: May 26, 2015  
Attachments:  Yes No

CITY COUNCIL ACTION

Date: June 1, 2015

- Approved  Denied  
 Amended  Tabled  
 Other

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Originating Department: CER

Agenda Item: Swansson Field Scoreboard Replacement

Recommended Action: Approval of the replacement of the scoreboard at Swansson Field by Daktronics in the amount of \$17,236.00.

Background/Summary: The scoreboard at Swansson Field is scheduled for replacement as defined in the 2015 Capital Improvement Plan. One quote was received from Daktronics for an outdoor aluminum LED baseball/softball scoreboard from Daktronics of Brookings, SD through the Minnesota Service Cooperative Contract #AEPA IFB#012-H.

Alternatives: Delay the purchase

Financial Considerations: \$150,000 was budgeted in the CIP for Park Development and included the purchase of the scoreboard.

Preparer: Sean E. Christensen, P.E.  
Public Works Director

Signature:

Comments:

<b>TIME</b> 60	<b>BALL</b> 3			<b>STRIKE</b> 2			<b>OUT</b> 2			<b>AT BAT</b> 17			
DAKTRONICS	1	2	3	4	5	6	7	8	9	10	<b>RUNS</b>	<b>HITS</b>	<b>ERR</b>
NEW ULM	0	1	0	0	1	3	0	0	0		5	10	1
WILLMAR	0	2	0	1	0	1	2	0			6	14	0
<b>SPONSOR</b>	<b>SPONSOR</b>			<b>SPONSOR</b>			<b>SPONSOR</b>						

- Overall Dimensions  
8'0" high x 20'0" wide

- BA-2019 w/  
TNMC  
6'0" high x 20'0" wide

- Sponsor Area  
2'0" high x 5'0" wide @4

ALL DIMENSIONS AND  
PRICES ARE APPROXIMATE

Willmar Baseball Swanson Field Willmar, MN

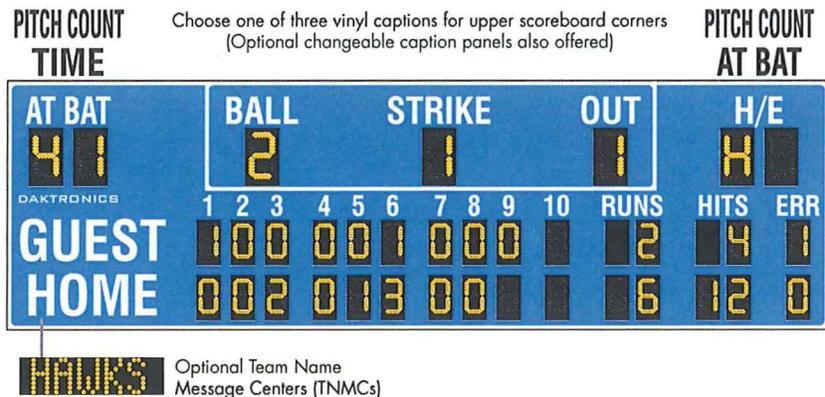
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**DAKTRONICS**

# DAKTRONICS BA-2019 PRODUCT SPECIFICATIONS



This outdoor LED baseball/softball scoreboard displays HOME and GUEST team scores for up to 10 innings, total RUNS and HITS to 99 and ERR (errors) to nine for each team, AT BAT to 99, BALL to three, STRIKE to two, OUT to two and H/E (hit or error) with field position number for the error. Scoreboard can show TIME or PITCH COUNT instead of AT BAT, as well as AT BAT or PITCH COUNT in place of H/E. Scoreboard shown with optional striping and amber PanaView® digits.

DIMENSIONS	UNCRATED WEIGHT	100-240 VAC POWER
6'-0" H x 20'-0" W x 8" D (1.83 m, 6.10 m, 203 mm)	500 lb (227 kg)	900 Watts Max, 9 Amps

**Note:** Optional 8x32 TNMCs add 270 Watts to scoreboard power and 80 lb (36 kg) to scoreboard weight.

## DIGITS

- AT BAT, BALL, STRIKE, OUT and H/E digits are 1.5" (381 mm) high. All other digits are 1.0" (254 mm) high.
- Select all red or all amber LED digits. Scoreboard may instead have mixed LED digit colors (see [DD1965467](#)).
- Scoreboard features robust weather-sealed digits (see [DD2495646](#)).
- Digits may be dimmed for night viewing.

## CAPTIONS

- HOME and GUEST captions are 12" (305 mm) high. AT BAT, BALL, STRIKE, OUT and H/E captions are 8" (203 mm) high. All other captions are 6" (152 mm) high.
- Standard captions are vinyl, applied directly to the display face.
- Optional TNMCs are 10.6" (269 mm) high.

## DISPLAY COLOR

Choose from 150+ colors (from Martin Senour® paint book) at no additional cost.

## CONSTRUCTION

Alcoa aluminum alloy 5052 for excellent corrosion resistance

## PRODUCT SAFETY APPROVAL

ETL listed to UL 48, tested to CSA standards, and CE labeled

## OPERATING TEMPERATURES

- Display: -22° to 122° Fahrenheit (-30° to 50° Celsius)
- Console: 32° to 130° Fahrenheit (0° to 54° Celsius)

# DAKTRONICS BA-2019 PRODUCT SPECIFICATIONS

## CONTROL CONSOLE

**All Sport® 5000**  
(see [SL-03991](#))

## CONTROL OPTIONS

**Wired (standard):** One-pair shielded cable of 22 AWG minimum is required. A cover plate with mounted connector and standard 2" x 4" x 2" (51 mm x 102 mm x 51 mm) outlet box is provided. Connector mates with signal cable from control console.

**Wireless (optional):** 2.4 GHz spread spectrum radio features 64 non-interfering channels and 8 broadcast groups (see [SL-04370](#)).

## TIME CLOCK

The two-digit clock can display hours/minutes/seconds. Clock information shifts from hours to minutes to seconds as time counts down.

## MOUNTING

Scoreboard is typically mounted on two vertical beams or poles. Hardware to mount scoreboard on two beams is included; hardware for more beams is at additional cost. Standard mounting uses I-beam clamps. Optional mounting method using angle brackets is also offered; maximum beam width is 12" (305 mm) and maximum beam depth is 22" (559 mm). Refer to attached drawings for more information on mounting methods.

## SERVICE ACCESS

Digit panels and electronics are serviced from the front of the scoreboard.

## GENERAL INFORMATION

Scoreboard provides scoring capabilities for two teams. 100% solid state electronics are housed in an all aluminum cabinet. Scoreboard is shipped in one section. Specifications and pricing are subject to change without notice.

## OPTIONS & ACCESSORIES

- Scoreboard border striping
- Striping around BALL, STRIKE and OUT digits
- Multiple caption and striping colors (see [DD2101644](#))
- Team name caption in place of HOME \*
- Team names on changeable panels \*
- TIME, AT BAT or PITCH COUNT captions on changeable panels
- Programmable Team Name Message Centers (see [DD1696958](#))
- Protective netting
- Optional angle bracket mounting method
- Advertising/identification panels
- Decorative accents
- Electronic message centers and video displays in multiple sizes

\* Only for scoreboard without Team Name Message Centers

## ADVERTISING/IDENTIFICATION PANELS

### Backlit & Non-Backlit:

- 1'-6" H x 20'-0" W (457 mm, 6.10 m)
- 2'-0" H x 20'-0" W (610 mm, 6.10 m)
- 2'-6" H x 20'-0" W (762 mm, 6.10 m)
- 3'-0" H x 20'-0" W (914 mm, 6.10 m)

For additional non-backlit panel sizes, see [SL-03761](#).

## FOR ADDITIONAL INFORMATION

- Installation Specifications: DWG-1157190 (attached)
- Standard I-beam Mounting: DWG-1052565 (attached)
- Optional Pole Mounting: DWG-1048184 (attached)
- Component Locations: DWG-1066797 (attached)
- Architectural Specifications: See [SL-07439](#)

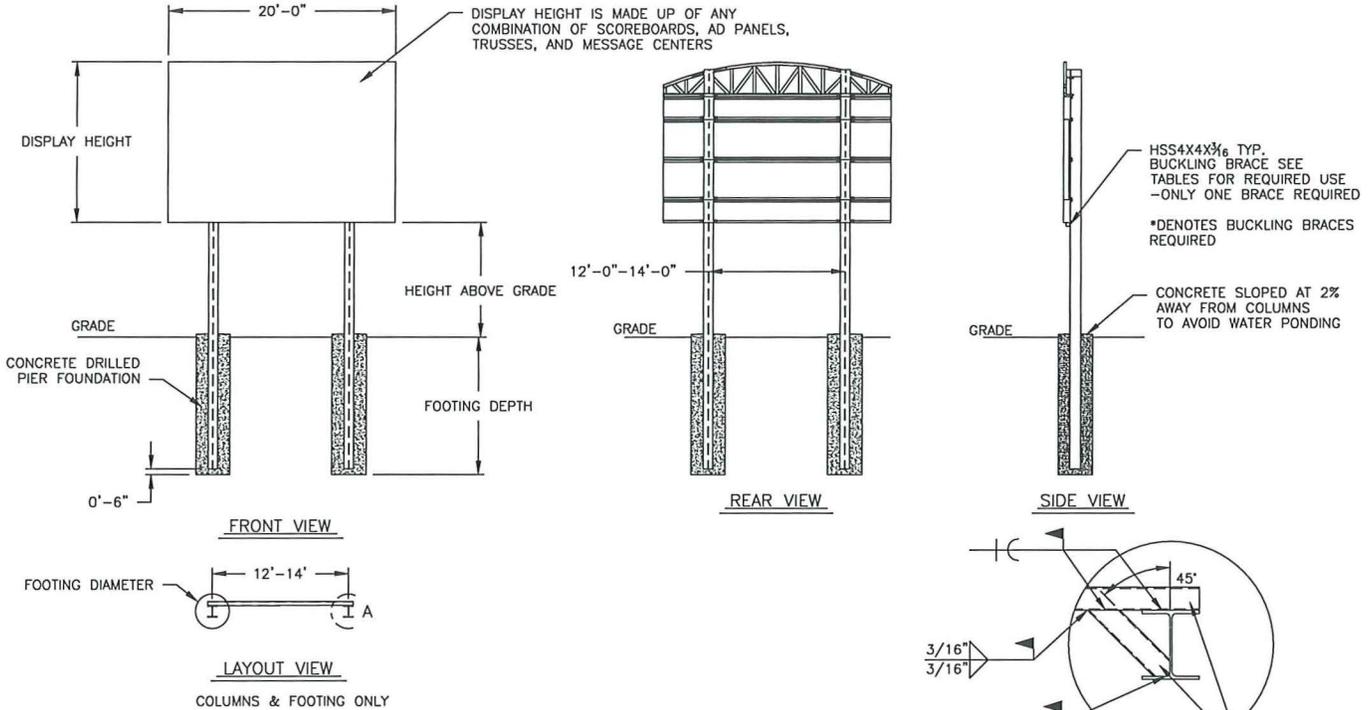


TABLE A - MOUNTING

EXPOSURE B

HEIGHT ABOVE GRADE = 10'					HEIGHT ABOVE GRADE = 15'						
DISPLAY HEIGHT (FT)	COLUMN	DESIGN WIND VELOCITY				DISPLAY HEIGHT (FT)	COLUMN	DESIGN WIND VELOCITY			
		115 MPH	130 MPH	150 MPH	170 MPH			115 MPH	130 MPH	150 MPH	170 MPH
8	COLUMN FOOTING	WBX18 2.0'x8.5'	W10X22 2.0'x9.5'	W10X26 2.0'x10.5'	W12X26 3.0'x10.0'	8	COLUMN FOOTING	W10X26 2.0'x9.5'	W10X30 2.0'x10.5'	W14X34 3.0'x10.0'	W12X40 3.0'x11.0'
10	COLUMN FOOTING	WBX28 2.0'x9.5'	W10X26 2.0'x10.5'	W12X26 3.0'x10.0'	W14X30 3.0'x11.0'	10	COLUMN FOOTING	W12X30 3.0'x9.0'	W14X34 3.0'x10.0'	W12X40 3.0'x11.0'	W16X45 3.0'x12.0'
12	COLUMN FOOTING	W10X26 2.0'x10.5'	W12X26 3.0'x10.0'	W12X40 3.0'x11.0'	W16X36 3.0'x12.0'	12	COLUMN FOOTING	W14X34 3.0'x10.0'	W12X40 3.0'x11.0'	W16X45 3.0'x12.0'	W21X48 3.0'x13.5'
14	COLUMN FOOTING	W12X26 3.0'x9.5'	W14X30 3.0'x10.5'	W16X36 3.0'x12.0'	W14X43 3.0'x13.5'	14	COLUMN FOOTING	W16X36 3.0'x10.5'	W14X43 3.0'x11.5'	W21X48 3.0'x13.5'	W21X55 3.0'x15.5'
16	COLUMN FOOTING	W12X30 3.0'x10.5'	W14X34 3.0'x11.5'	W16X40 3.0'x13.0'	W21X48 3.0'x15.0'	16	COLUMN FOOTING	W14X43 3.0'x11.5'	W18X50 3.0'x12.5'	W21X55 3.0'x14.5'	W16X67 3.0'x17.0'
18	COLUMN FOOTING	W14X34 3.0'x11.0'	W16X40 3.0'x12.0'	W21X48 3.0'x14.0'	W18X55 3.0'x16.5'	18	COLUMN FOOTING	W14X48 3.0'x12.0'	W18X55 3.0'x13.5'	W21X62 3.0'x16.0'	W24X68 4.0'x16.0'
20	COLUMN FOOTING	W16X36 3.0'x11.5'	W21X44 3.0'x13.0'	W21X48 3.0'x15.5'	W21X62 3.0'x18.5'	20	COLUMN FOOTING	W21X48 3.0'x13.0'	W21X55 3.0'x15.0'	W21X68 3.0'x17.5'	W24X76 4.0'x17.5'

FOOTING DIMENSIONS = DIAMETER X DEPTH  
BUCKLING BRACE REQUIRED FOR ALL DISPLAYS

EXPOSURE C

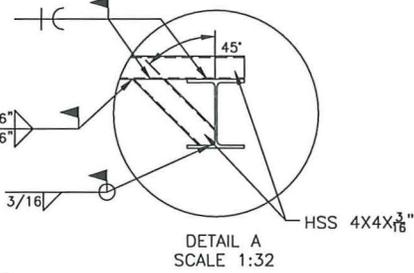
HEIGHT ABOVE GRADE = 10'				HEIGHT ABOVE GRADE = 15'			
DISPLAY HEIGHT (FT)	COLUMN	DESIGN WIND VELOCITY		DISPLAY HEIGHT (FT)	COLUMN	DESIGN WIND VELOCITY	
		115 MPH	140 MPH			115 MPH	140 MPH
8	COLUMN FOOTING	W10X22 2.0'x10.0'	W12X26 3.0'x10.0'	8	COLUMN FOOTING	W12X30 3.0'x9.5'	W16X36 3.0'x11.0'
10	COLUMN FOOTING	W10X26 2.0'x11.0'	W14X30 3.0'x11.0'	10	COLUMN FOOTING	W16X36 3.0'x10.5'	W14X43 3.0'x12.0'
12	COLUMN FOOTING	W12X30 3.0'x10.0'	W18X35 3.0'x12.0'	12	COLUMN FOOTING	W16X40 3.0'x11.0'	W21X48 3.0'x13.5'
14	COLUMN FOOTING	W14X34 3.0'x11.0'	W16X40 3.0'x13.0'	14	COLUMN FOOTING	W14X48 3.0'x12.0'	W21X55 3.0'x15.0'
16	COLUMN FOOTING	W16X36 3.0'x12.0'	W21X48 3.0'x14.5'	16	COLUMN FOOTING	W21X48 3.0'x13.0'	W21X62 3.0'x16.5'
18	COLUMN FOOTING	W16X40 3.0'x12.5'	W21X48 3.0'x16.0'	18	COLUMN FOOTING	W21X55 3.0'x14.5'	W24X68 4.0'x15.5'
20	COLUMN FOOTING	W14X48 3.0'x14.0'	W21X55 3.0'x17.5'	20	COLUMN FOOTING	W21X62 3.0'x15.5'	W18X76 4.0'x16.5'

FOOTING DIMENSIONS = DIAMETER X DEPTH  
BUCKLING BRACE REQUIRED FOR ALL DISPLAYS

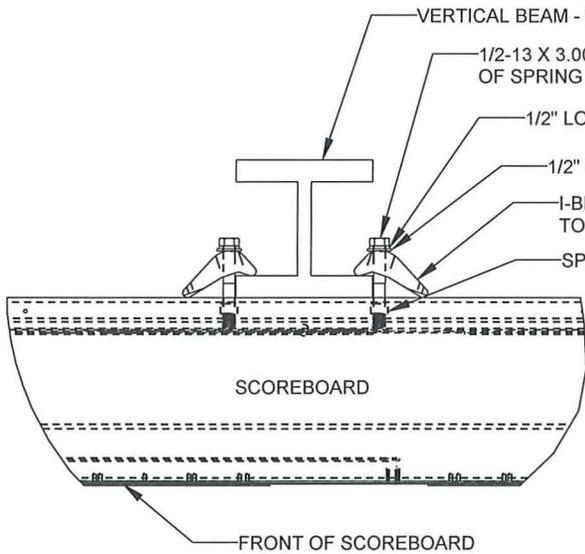
NOTE:  
-REFER TO NOTE 7 FOR EXPOSURE CATEGORY DEFINITIONS.

NOTES:

- FOOTING AND COLUMN SIZES ARE SUGGESTIONS ONLY, PROVIDED TO ASSIST WITH ESTIMATING INSTALLATION COSTS AND ARE NOT INTENDED FOR CONSTRUCTION PURPOSES. THE DESIGN MUST BE CERTIFIED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF THE INSTALLATION BEFORE THEY CAN BE USED FOR FABRICATION OR ERECTION.
- INTERNATIONAL BUILDING CODE 2012 USED IN DESIGN OF COLUMNS AND FOOTINGS WITH IMPORTANCE FACTOR=1, Kzt=1.0, Kd=0.85, G=0.85. SEISMIC DESIGN WAS NOT CONSIDERED.
- FOOTING DIMENSIONS ARE BASED ON ASSUMED SOIL CLASS 4 (ALLOWABLE LATERAL BEARING PRESSURE OF 150 psf).
- STRUCTURAL STEEL IS GRADE A992 (50 ksi) STEEL. CONCRETE SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 2500 psi.
- THE AVERAGE DISPLAY WEIGHT FOR A LAYOUT CAN NOT EXCEED 8 PSF.
- DAKTRONICS INC. IS NOT RESPONSIBLE FOR STRUCTURES DESIGNED AND INSTALLED BY OTHERS.
- LOCAL BUILDING OFFICIALS SHOULD BE CONTACTED TO DETERMINE THE WIND SPEED AND EXPOSURE CATEGORY FOR THE PROPOSED SIGN LOCATION. THE EXPOSURE CATEGORY C IS DEFINED AS:  
  
EXPOSURE B - URBAN AND SUBURBAN AREAS, OR OTHER TERRAIN WITH NUMEROUS SPACED OBSTRUCTIONS HAVING THE SIZE OF SINGLE-FAMILY DWELLINGS OR LARGER. THESE CONDITIONS MUST PREVAIL FOR A DISTANCE FROM THE SIGN OF AT LEAST 2,600 FT OR 20 TIMES THE SIGN HEIGHT, WHICHEVER IS GREATER  
  
EXPOSURE C - OPEN TERRAIN WITH SCATTERED OBSTRUCTIONS HAVING HEIGHTS GENERALLY LESS THAN 30 FT. THIS CATEGORY INCLUDES FLAT OPEN COUNTRY, GRASSLANDS, AND ALL WATER SURFACES IN HURRICANE PRONE REGIONS.
- FOR SPECIFIC PRODUCT DETAILS ON WEIGHT, MOUNTING, ETC. REFER TO THE INDIVIDUAL PRODUCT SPECIFICATION SHEETS.



<p>DAKTRONICS, INC. BROOKINGS, SD 57006 DO NOT SCALE DRAWING</p>	<p>THE CONCEPTS EXPRESSED AND DETAILS SHOWN ON THIS DRAWING ARE CONFIDENTIAL AND PROPRIETARY. DO NOT REPRODUCE BY ANY MEANS WITHOUT THE EXPRESSED WRITTEN CONSENT OF DAKTRONICS, INC. COPYRIGHT 2011 DAKTRONICS, INC.</p>	
	<p>PROJ: OUTDOOR SCOREBOARD INSTALLATION TITLE: 20' WIDTH SCOREBOARD INSTALLATION SPECS</p>	
<p>DESIGN: RSCHWAR SCALE: 1/16" = 1'</p>	<p>DRAWN: RSCHWAR</p>	<p>DATE: 27 NOV 13</p>
<p>REV 01 DATE: 23 JUL 14 UPDATED CLAMPS IN REAR AND SIDE VIEWS AND ADDED 170 MPH WIND SPEC COLUMN</p>	<p>BY: TJT</p>	<p>SHEET REV JOB NO: FUNC-TYPE-SIZE</p>
<p>REV DATE:</p>	<p>BY:</p>	<p>1157190</p>

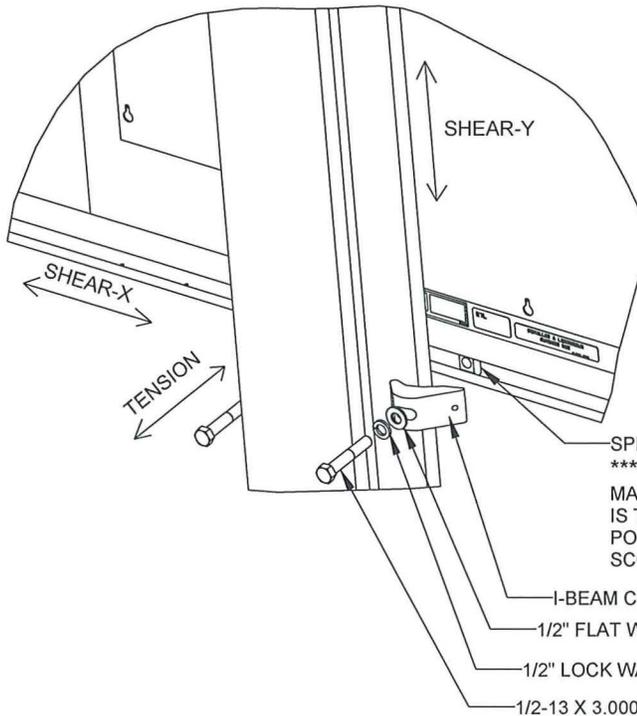


TOP VIEW

## STANDARD MOUNTING METHOD

**MOUNTING INSTRUCTIONS:**

1. PLACE SPRING NUTS INTO SCOREBOARD CHANNEL IN APPROXIMATE LOCATION OF VERTICAL BEAMS
2. LIFT SCOREBOARD INTO POSITION
3. MAKE SURE THE 1/2-13 BOLTS ARE AS CLOSE TO THE I-BEAM FLANGES AS POSSIBLE
4. WHEN SCOREBOARD IS ADJUSTED TO FINAL DESIRED POSITION, TIGHTEN BOLTS FIRMLY
5. IF FLANGE THICKNESS IS MORE THAN 3/4" THICK LONGER BOLTS WILL BE REQUIRED AT THE CUSTOMER'S EXPENSE.



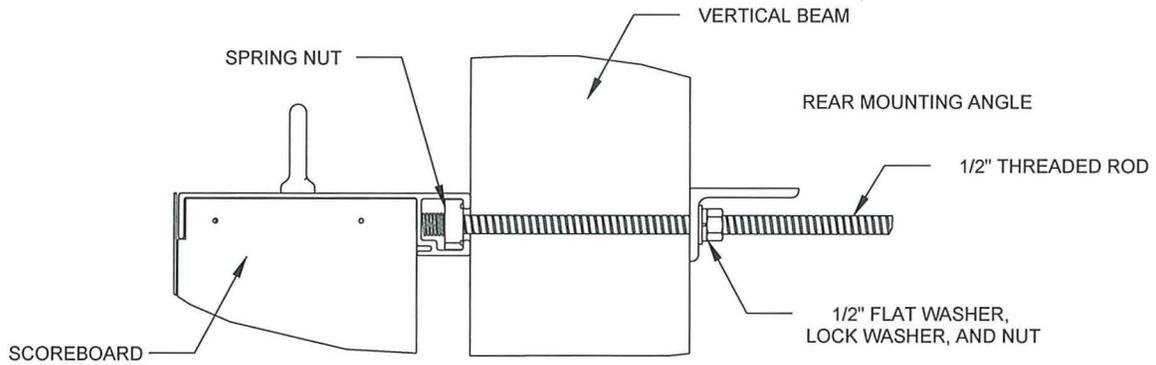
EXPLODED REAR ISOMETRIC VIEW

ALLOWABLE CAPACITY PER EACH CLAMP:  
 SHEAR = 160 LBS  
 TENSION = 2300 LBS

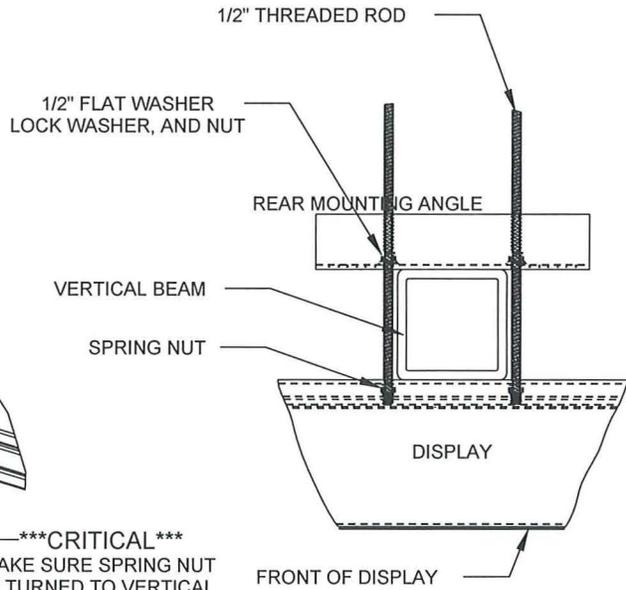
SHEAR AND TENSION LOAD DIRECTION ARE AS INDICATED ON REAR ISOMETRIC VIEW

REV 04	DATE: 6 JAN 14	ADDED ALLOWABLE TENSION AND SHEAR CAPACITY DETAILS	BY: JAVA
REV 03	DATE: 23 OCT 13	CHANGED BOLT TORQUE FROM 30 FT-LB TO 40 FT-LB PER EC-12382	BY: NJM
REV 02	DATE: 07 MAR 12	ADDED STADNARD MOUNTING METHOD NOTES	BY: KDD
REV 01	DATE: 21 FEB 12	CHANGED ROCKER TO I-BEAM	BY: KDD

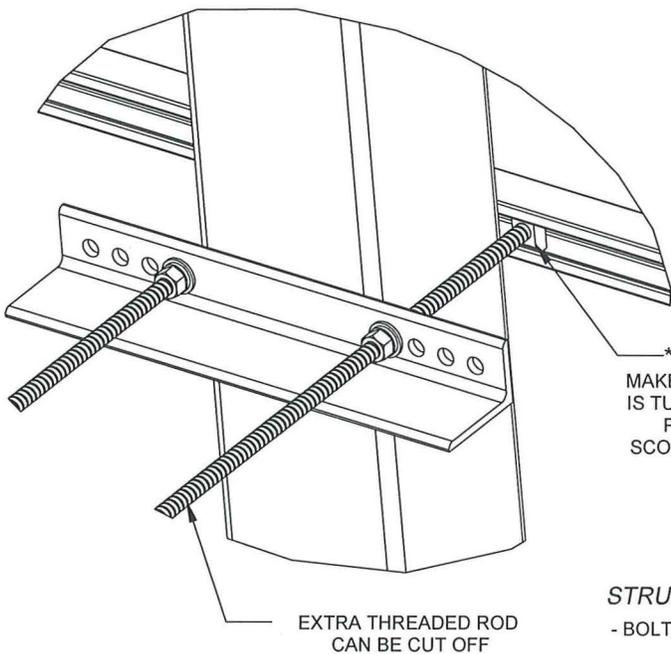
		DAKTRONICS, INC.		<small>THE CONCEPTS EXPRESSED AND DETAILS SHOWN ON THIS DRAWING ARE CONFIDENTIAL AND PROPRIETARY. DO NOT REPRODUCE BY ANY MEANS WITHOUT THE EXPRESSED WRITTEN CONSENT OF DAKTRONICS, INC. COPYRIGHT 2013 DAKTRONICS, INC.</small>	
		BROOKINGS, SD 57006			
DO NOT SCALE DRAWING					
PROJ: OUTDOOR SCOREBOARD					
TITLE: P1647; I-BEAM CLAMP MOUNTING					
DESIGN: MCARSRU		DRAWN: MCARSRU		DATE: 06-JAN-14	
SCALE: 1/8					
SHEET:	REV	JOB NO:	FUNC-TYPE-SIZE	1052565	
1 OF 1	04	P 1647	E - 07 - A		



SIDE VIEW



TOP VIEW  
SCALE 1/10



REAR ISOMETRIC VIEW

\*\*\*CRITICAL\*\*\*  
MAKE SURE SPRING NUT  
IS TURNED TO VERTICAL  
POSITION INSIDE  
SCOREBOARD CHANNEL

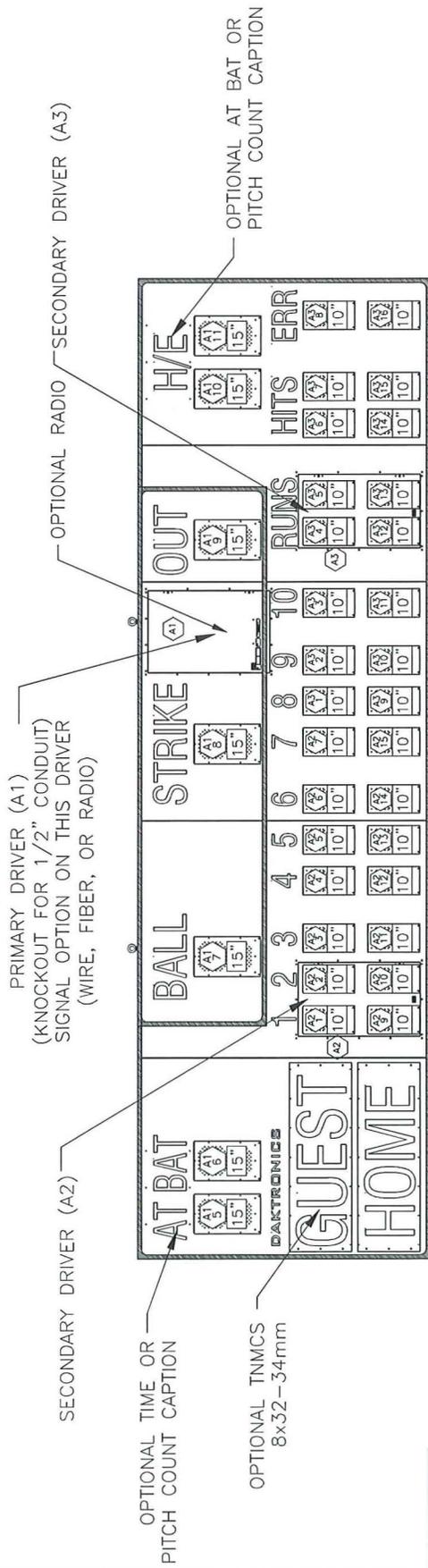
STRUCTURAL NOTES:  
- BOLT TORQUE: 30 FT-LB

NOTES:  
- THREADED RODS RUN ALONG BOTH SIDES OF BEAM  
- RODS DO NOT PASS THROUGH THE FLANGES OF THE BEAM  
- NO DRILLING NECESSARY  
- MAKE SURE SPRING NUT IS PERPENDICULAR TO CHANNEL  
OPENING ON SCOREBOARD

 <b>DAKTRONICS, INC.</b> BROOKINGS, SD 57006 DO NOT SCALE DRAWING		THE CONCEPTS EXPRESSED AND DETAILS SHOWN ON THIS DRAWING ARE CONFIDENTIAL AND PROPRIETARY. DO NOT REPRODUCE BY ANY MEANS WITHOUT THE EXPRESSED WRITTEN CONSENT OF DAKTRONICS, INC. COPYRIGHT 2010 DAKTRONICS, INC.	
PROJ: <b>OUTDOOR SCOREBOARDS</b>			
TITLE: <b>P1647; POLE MOUNTING OPTIONS</b>			
DESIGN: <b>DOPPELT</b>		DRAWN: <b>DOPPELT</b>	
SCALE: <b>1/5</b>		DATE: <b>22 MAR 11</b>	
SHEET: <b>1 OF 1</b>	REV: <b>03</b>	JOB NO.: <b>P1647</b>	FUNC-TYPE-SIZE: <b>E - 10 - A</b>
			<b>1048184</b>

REV 03	DATE: 3 JULY 13	ADDED STRUCTURAL NOTE	BY: TTF
REV 02	DATE: 20 SEP 12	REMOVED CHAMFER FROM 0M-133259 PER EC-7114	BY: LMG
REV 01	DATE: 06 OCT 11	REPLACED VERTICAL I-BEAM WITH 6" X 6" SQUARE TUBE	BY: JAVA

BA-2019-R/A/W



FRONT VIEW

NOTES:

-  = LED DRIVER NUMBER & LED DRIVER CONNECTOR WIRED TO THAT DIGIT.
-  = DIGIT SIZE
-  = DRIVER NUMBER

REV 02	DATE: 18 FEB 15	PER EC-17119, REMOVED DETAIL A AND B ADDED SIGNAL OPTION NOTE CHANGED SLAVE AND MASTER DRIVER NAME	BY: KDB
REV 01	DATE: 04 FEB 13	PER EC-9264, ADDED OPTIONAL CAPTION NOTES	BY: KDD

 <b>DAKTRONICS, INC.</b> BROOKINGS, SD 57006 DO NOT SCALE DRAWING		THE CONCEPTS EXPRESSED AND DETAILS SHOWN ON THIS DRAWING ARE CONFIDENTIAL AND PROPRIETARY. DO NOT REPRODUCE BY ANY MEANS WITHOUT THE EXPRESSED WRITTEN CONSENT OF DAKTRONICS, INC. COPYRIGHT 2011 DAKTRONICS, INC.	
PROJ: OUTDOOR LED SCOREBOARDS TITLE: COMPONENT LOCATION; BA-2019			
DESIGN: KDRAGT		DRAWN: KDRAGT	
DATE: 23 AUG 11			
SCALE: 1=40			
SHEET	REV	JOB NO:	FUNC-TYPE-SIZE
	03	P1647	E-10-A
			<b>1066797</b>

# DAKTRONICS QUOTE # 524242-1-1

Willmar Community Education and Recreation  
 Steve Brisendine  
 1234 Kandiyohi Ave SW  
 Willmar, MN USA 56201  
 Phone: (320)231-8494  
 Fax:  
 Email: brisendines@willmar.k12.mn.us

13/May/2015  
 Quote valid for: 90 days  
 Terms: Net 30 with Purchase Order  
 FOB: DAKTRONICS  
 Delivery: Call for production time

Reference: Swanson Field Softball.  
 All pricing in accordance with Minnesota Service Cooperative Contract #AEPA IFB #012-H.

Item No.	Model	Description	Qty	Price
1	BA-2019-AR-PV-F	<b>Baseball/Softball Scoreboard; Amber/Red Digits; All Sport 5010 Controller; Scoreboard Color: Forest Green 8750; Caption Color: White; Choice of left caption: Time; Choice of right caption: At Bat</b> Cabinet Dimensions: 6' 0" H X 20' 0" W X 0' 8" D (Approx. Dimensions) Digit Type: PANAVIEW Digit Color: RED, AMBER Max Power: 900 watts/display Weight: Unpackaged 500 lbs per display; Packaged 875 lbs per display	1	\$17,236.00
	Stripe; 0A-1091-1289	1" Border Stripe for BA-2019 Scoreboards; Color: White	1	
	Stripe; BSO 0A-1157-1521 / 1558	Stripe around BSO Digits for BA-2019 Scoreboards; Color: White	1	
	I-Beam Mounting Method (A)	For 2 I-Beams	1	
	TNMC_8x32_Amber LED (34mm)	8x32-34mm LED Team Name Message Center; Set of 2; Amber LED's	1	
	EN-1684 Case	Hard Sided Carrying Case for All Sport® 5000 Controller Kit	1	
	Radio Transmitter	Frequency of 2.4 GHz	1	
	Radio Receiver	Frequency of 2.4 GHz	1	
	ID_30x240_O	30in x 20ft non-backlit sponsor/identification panel	1	
	FREIGHT	Shipping to site - does not include optional items	1	
<b>Services</b>				
2	G5C5-W	Five Year Warranty - Parts Coverage - G5G5	1	

**Total Price Excluding Sales Tax: \$17,236.00**

Please reference listed sales literature: DD1628383 for G5C5-W, DD1696958 for TNMC\_8x32\_Amber LED (34mm), DD2118182 for BA-2019-AR-PV-F, SL-04370 for Radio Receiver, SL-04370 for Radio Transmitter, SL-04551 for EN-1684 Case

# DAKTRONICS QUOTE # 524242-1-1

## Exclusions:

- Electrical Installation
- Structure
- Power
- Technical Support/Installation Support
- Signal Conduit
- Applicable Permits
- Electrical Switch Gear or Distribution Equipment
- Physical/Mechanical Installation
- Foundation
- Hoist
- Engineering Certification
- Labor to Pull Signal Cable
- Taxes
- Front End Equipment

Unless expressly stated otherwise in this Quote # 524242-1 Rev 1 or the attachments, if Daktronics performs installation of the Equipment, the price quoted does not include the following services pertaining to physical installations: digging of footings (including dirt removal), any materials fabrication, installation of steel cages, rebar, or bolt attachments, or pouring and finishing of concrete footings. Those service may be provided for an additional cost beyond the quoted price. Purchaser shall be fully responsible for any and all additional costs plus overhead in the event anything unexpected of any nature whatsoever is found while digging the footings including but are not limited to rock, water, utility lines, pipes or any other unforeseen circumstance. The Purchaser acknowledges and agrees that it is fully responsible for all site conditions.

## Installation Responsibilities:

If applicable please reference Attachment A for Installation Responsibilities.

## Ad/ID Copy Approval Process

Daktronics will process your proofs on orders that include advertising and identification panels. Your digital files and copy layouts should conform to graphic file standards document, SL-04116. The digital data files and copy layouts must be submitted at the time of your order and our proofs need to be approved two weeks prior to your initial anticipated ship date. Advertising and identification panels not receiving proof approvals in time will be shipped without copy in our standard finish.



Don Hansen  
PHONE: 605-695-2096  
FAX: 605-697-4746  
EMAIL: Don.Hansen@daktronics.com



Jess Martin  
PHONE: 605-692-0200  
FAX:  
EMAIL: Jess.Martin@daktronics.com

## Terms And Conditions:

The Terms and Conditions which apply to this order available on request.

SL-02375 Standard Terms and Conditions of Sale	( <a href="http://www.daktronics.com/terms_conditions/SL-02375.pdf">www.daktronics.com/terms_conditions/SL-02375.pdf</a> )
SL-02374 Standard Warranty and Limitation of Seller's Liability	( <a href="http://www.daktronics.com/terms_conditions/SL-02374.pdf">www.daktronics.com/terms_conditions/SL-02374.pdf</a> )
SL-07862 Software License Agreement	( <a href="http://www.daktronics.com/terms_conditions/SL-07862.pdf">www.daktronics.com/terms_conditions/SL-07862.pdf</a> )
SL-04116 Graphic File Standards	( <a href="http://www.daktronics.com/terms_conditions/SL-04116.pdf">www.daktronics.com/terms_conditions/SL-04116.pdf</a> )

## Acceptance:

The Undersigned has actual authority to execute this document and Daktronics, Inc is relying upon such authority.

The parties hereby acknowledge and agree that the terms and conditions contained within this Quote along with the terms and conditions of the Daktronics Standard Terms and Conditions, the Standard Warranty and Limitations of Liability, and/or the Software License Agreement (together, the "Terms and Conditions") constitute the full and final understanding of the parties regarding the sale of equipment and/or the provision of services and entirely replace and supersede any previous understanding or agreement between the parties. By executing this agreement, Purchaser acknowledges that it has had opportunity and means to review the Terms and Conditions as provided in the website addresses above. In the alternative, hardcopy of these Terms and Conditions will be provided upon request. Further it is acknowledged and agreed that the price of the equipment and/or the provision of services contained within this agreement are expressly conditioned upon Purchaser's acceptance of the Terms and Conditions without change. Any modification of the Terms and Conditions may require a corresponding change in price. Accordingly, the Purchaser acknowledges and agrees to these Terms and Conditions as evidenced by its attestation below.

\_\_\_\_\_  
Customer Signature

\_\_\_\_\_  
Date

\_\_\_\_\_  
Print Name

\_\_\_\_\_  
Title

