

MANDAN, ND

WAYFINDING SIGNAGE  
MASTER PLAN

APPENDIX B

REVISED  
05/15/2018  
05/24/2018  
06/20/2018

BER  
BER  
ICH

DESIGN

PO BOX 468 HILL CITY, SOUTH DAKOTA 57745  
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*Project:*  
 City-Wide Vehicular  
 Wayfinding

*Prepared for:*  
 The City of Mandan  
 205 Second Avenue NW,  
 Mandan, ND 58554

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*Date:* 10/15/2017  
*Revisions:*  
 - 01/23/2018  
 - 03/13/2018

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*Drawn by:* RB

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# GENERAL SPECIFICATIONS

## SUBMITTALS

A. SHOP DRAWINGS: PDF format shop drawings are to be submitted to the Owner and Designer for review prior to production. These drawings are to show/indicate all materials, finishes, construction details, lighting, and installation detailing of artwork and signage structure, including locations of all material seams (finished and unfinished). Additional drawing(s) may be requested by the Designer, at the contractor's expense to further indicate items in question.

B. PRODUCT DATA: Submit manufacturer's technical data and installation instructions for each type of sign and/or fixture required. As will be provided in the completed, installed sign unit.

C. SPECIFIC SAMPLES: Submit two (2) 6" x 6" samples of all actual material to be used for each different finish surface, (each color and texture) coated to match the proper color texture and finish as for each indicated, to show the quality of fabrication and design. If there are material seams or welded joints in the sign cabinet, a sample of a continuously welded, ground, filed, and smoothed seam with the correct indicated finish(s) applied must be submitted for Designer review. Completed and installed components will be evaluated based on these submittals.

D. OTHER SAMPLES: Two (2) 6" x 6" samples of all exterior materials that can be viewed when all finished sign structures are completed and in place (in addition to those mentioned above) are to be submitted for Designer review prior to production. Items sampled would include those specified, as well as those materials proposed for substitution of specified materials, or suggested materials for those that are unspecified, including Neon (sample drawing will be provided).

E. STRUCTURE: Design of installation, internal structure, mounting assemblies and foundations by Sign Contractor: Sign Contractor shall submit comprehensive shop drawings incorporating an adequate foundation or mounting structure for all sign components given site conditions. The sign contractor shall at his expense submit calculations, stamped by the appropriate Engineer registered in the state of Final Installation for all structural members, including foundations for Owner's review.

F. ELECTRICAL REQUIREMENTS: Not Used

G. LAMP SERVICE: -Not Used

H. MAINTENANCE: Sign Contractor to provide Designer and Owner with complete finish / component care instructions as specified by manufactures for on-going cosmetic sign cleaning and maintenance.

## QUALITY ASSURANCE

A. UL COMPLIANCE: Not Used

B. LAMP EMISSION: Not Used

C. ELECTRICAL HARDWARE: Not Used

D. LABELING: There shall be no visible labels, manufacturer's or otherwise, code permitting, on the completed signs. If labels are required, a sample label and intended location must be submitted for Designer review, prior to application.

E. STOCK: All materials, hardware, electrical components, finishes, etc. used to fabricate any and all sign components shall be "NEW" (not previously used or operated in any other application) and from the most recent original manufacturer's production run/supply and appropriately matched to the service conditions required of the site.

F. ARTWORK: Digital artwork for all symbols and other custom designed graphic components, such as logos, logo-type and arrow heads used for all sign types shall be furnished or specified by the Designer for reproduction. All enlarging and reducing is the responsibility of the Sign Contractor. Paper patterns are required prior to fabrication.

G. EXECUTION: Problems such as messages being too long to fit into the required formats, difficult logo or logo-type components to reproduce accurately, etc., must be brought to the attention of the Designer, prior to execution. The Sign Contractor is not to resolve these kinds of discrepancies.

H. OWNERSHIP: All designs created by the Designer for this project are to be used exclusively for this project. The Sign Contractor must receive express written permission from the Designer and Owner for any use other than for the completion of this project including self-promotion and publication. It is required that all original artwork furnished be returned upon completion of this project. (Deposit may be required.)

I. ACCEPTANCE: All work shall be complete in every respect and satisfactory to all governing legislative authorities and building codes, the Owner and the Designer.

## PERMITS

A. PERMITS: Sign Fabricator is responsible for acquiring all necessary permits and approvals from all governing authorities for contents of this package prior to fabrication and/or installation. Owner is to be supplied with copies of all permits and approvals.

## MATERIALS

A. ACRYLIC/COLOR TRANSLUCENT SHEET: Where sheet material is indicated as a "color", provide color translucent sheet of density required to produce uniform brightness without halo effects. Material provided shall be appropriately matched to the intended permanent field conditions.

B. ACRYLIC/TRANSPARENT SHEET: Where sheet material is indicated as "clear" provide colorless sheet in glass finish, with light transmittance of 92%, where tested in accordance with the requirements of ASTM D-1003.

C. ALUMINUM SHEET: Provide aluminum sheet of alloy and temper recommended by the aluminum producer or finisher for the type of use and finish indicated, and with not less than the strength and durability properties specified in ASTM B109 for 5005-H15.

D. ALUMINUM EXTRUSIONS: Provide aluminum extrusions of alloy and temper recommended by the aluminum producer or finisher for the type of use and finish indicated, and with not less than the strength and durability properties specified in ASTM B-221 for 6063-T5.

E. STRUCTURAL STEEL: Provide internal galvanized structural steel as required to meet the requirements of the permanent installation when required.

F. FASTENERS: Unless otherwise indicated, use concealed fasteners fabricated from Hot Dipped Galvanized Steel, Stainless Steel and / or Aluminum. No steel fasteners.

G. ELECTRICAL/LAMPS: Not Used

H. VINYL WALL COVERING: Not Used

I. ALTERNATE MATERIALS AND METHODS: All bids are to be based directly on the materials and fabrication techniques indicated in this drawing package. No alternates will be considered as part of the base bid. Any alternates suggested by the potential bidder must be quoted separately as alternates and must be accompanied by a complete description of the proposed alternate in order to be considered.

## J. WARRANTY

- During the warranty period, the Contractor agrees to restore defective work to the standard of the Bid Documents without cost to the Client, including material and labor, for three years after acceptance of the Work.

- Signs shall be warranted for five years against discoloration, UV fading, delamination, or deterioration.

- Vinyl die-cut letters shall be warranted for five years against delamination from substrate.

- At project completion the Contractor must include within a 3-ring binder material samples and all warranty information, to include but not limited to, labor, materials, products used, along with all lighting specification and manufacturers contact information.



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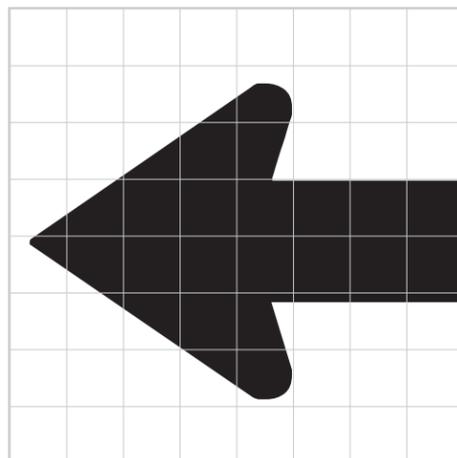
*Drawn by:* RB

General Specifications

LOGO VERSIONS



ARROW DETAIL

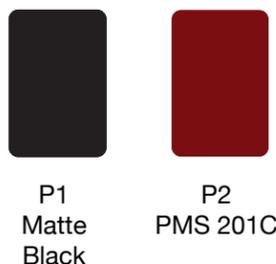


PROJECT TYPE FONTS

FHWA Series D 2005 (DOT Approved font)

ABCDEFGHIJKLMNOPQRSTUVWXYZ  
 abcdefghijklmnopqrstuvwxyz  
 1234567890.,:!"'&!?\$

SIGNAGE COLOR PALETTE (Computer Representation)



SIGNAGE COLOR PALETTE 3M VINYL OR EQUAL (Computer Representation)



FHWA / DOT OVERVIEW OF DESIGN STANDARDS

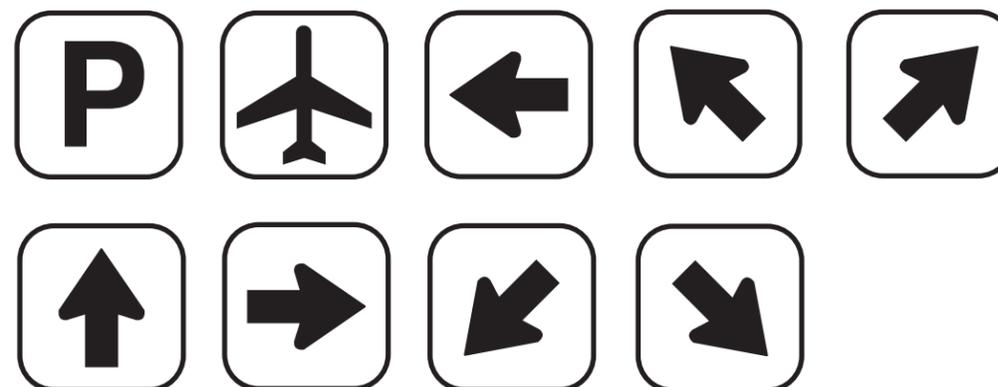
(PLEASE NOTE, ALL INFORMATION IS TO BE VERIFIED BY USER)

- 1) MAXIMUM OF 3 LISTINGS / DESTINATIONS PER SIGN PANEL.
- 2) COLOR CONTRAST SHOULD BE AT LEAST 70 PERCENT BETWEEN TYPEFACE AND BACKGROUND.
- 3) FHWA SERIES "D" FONT TO BE USED.
- 4) LETTER CAP HEIGHT TO BE 4 " UPPER CASE WITH 3" LOWER CASE FOR SIGNS IN URBAN CONDITIONS WITH SPEEDS OF 25 MPH OR LESS.
- 5) LETTER CAP HEIGHT TO BE 6" UPPER CASE AND 4 1/2" LOWER CASE FOR SIGNS ON ROADWAYS 30 MPH AND OVER.
- 6) RETROREFLECTIVE VINYL MUST BE USED AND COMPLY WITH MUTCD SECTION TABLE 2A-3.
- 7) ALL SIGN POSTS ARE TO BE BREAKAWAY AND MEET OR EXCEED MUTCD SPECIFICATIONS.
- 8) SIGNS WITHIN RIGHT-OF-WAY AND IN CLEAR ZONES MUST HAVE A VERTICAL CLEARANCE OF 7'-0" IN URBAN AREAS AND 5'-0" IN RURAL AREAS FROM BOTTOM OF SIGN PANEL TO NEAR EDGE OF DRIVE LANE.
- 9) 5'-0" MINIMUM LATERAL SETBACK FOR POSTS REQUIRED IN URBAN AREA WITH LOW SPEEDS ≤ 40 MPH WITH CURB.
- 10) 2'-0" MINIMUM LATERAL SETBACK OFF BACK OF CURB TO FRONT EDGE OF SIGN IN URBAN AREAS.
- 11) 6'-0" MINIMUM LATERAL SETBACK FROM EDGE OF SHOULDER TO NEAR EDGE OF SIGN FOR POSTS IN RURAL AREAS. IF SHOULDER IS LESS THAN 6'-0" WIDE, LATERAL SETBACK OF SIGN POST IS 12'-0" FROM NEAR EDGE DRIVING LANE.
- 12) IN MOST CASES, SETBACK ≥ 30'-0" POST ARE NOT REQUIRED TO BE BREAKAWAY. VERIFY EACH LOCATION.
- 13) SIGNS WITHIN RIGHT-OF-WAY (ROW) AND IN CLEAR ZONES MUST USE "BREAK AWAY" HARDWARE AND/OR CONSTRUCTION METHODS.
- 14) URBAN AREAS - SIGN SPACING SHOULD BE A 200' DESIRABLE, 100' MINIMUM, UNLESS SPPEDS EXCEED 45 MPH. FOR SPEEDS 45 MPH AND OVER REFER TO LINE 15 BELOW.
- 15) RURAL AREAS - SIGN SPACING SHOULD BE 400' DESIRABLE, 200' MINIMUM.
- 16) WOOD POSTS TO BE EMBEDDED A MINIMUM OF 5'-0". WOOD POSTS LONGER THAN THE REQUIRED LENGTH SHALL BE CUT OFF OR SET DEEPER. HOLES FOR SETTING WOOD POSTS TO BE A MIMINUM DIAMETER OF 6" WIDER THAN THE LARGEST SIDE DIMENSION OF THE POST WITH THE TOP 6" OF FILL 12" WIDER THAT THE LARGEST SIDE DIMENSION OF THE POST.
- 17) POSTS ARE TO BE CENTERED IN THE HOLE, SET, BACKFILLED, AND COMPACTED WITH HYDRALIC COMPACTOR WITH MATERIAL PLACED IN LAYERS NOT TO EXCEED 6".
- 18) ALL POSTS TO BE TREATED FOR BELOW GROUND INSTALLATION AND BACKFILL WITH 3/4" - 1" CRUSHED STONE OR WITH EXISTING MATERIAL FROM SITE. VERIFY WITH THE CITY OF MANDAN MAINTENANCE DEPARTMENT.
- 19) FINISH AREA AROUND POST(S) TO MATCH EXISTING CONDITIONS IS URBAN SETTINGS.

NOTES

- 1) COLOR BLOCKS ARE A COMPUTER REPRESENTATION ONLY AND ARE A CLOSE APPROXIMATION OF THE ACTUAL COLORS
- 2) ALL PAINT COLORS FOR SIGNAGE ARE TO BE MATTHEWS PAINT COMPANY, MATTHEWS ACRYLIC POLYURETHANE (MAP) [1-800-323-6593] OR EQUAL. UV CLEAR COAT REQUIRED FOR ALL PAINTED SURFACES
- 3) COLOR AND MATERIAL SAMPLES REQUIRED FOR APPROVAL PRIOR TO FABRICATION.
- 4) ALTERNATIVES MATERIALS AND COATINGS WILL REQUIRE THAT THE FABRICATOR TO SUBMIT 6" SQUARE SAMPLES FOR APPROVAL. ALSO NOTE THAT ANY SUCH MATERIALS MUST HAVE A COMPARABLE WARRANTY.
- 5) ALL ARTWORK TO BE PROVIDED BY THE OWNER / DESIGNER

INTERNATIONAL SYMBOLS AND ARROWS



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**Project Standards**

# BREAKAWAY SIGN SUPPORTS

## (Wood Post Details)

Sheet 1 of 1

### GENERAL NOTES-

1. Design Specification: AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals, 2013 6th Edition

2. Western Red Cedar posts shall be included with the exception that a preservative treatment is not required.

3. The posts shall be of such straightness that a straight line drawn from the surface of the top and bottom will not exceed 2" from the surface and there shall be no reverse crooks.

\* Single post installation shown.

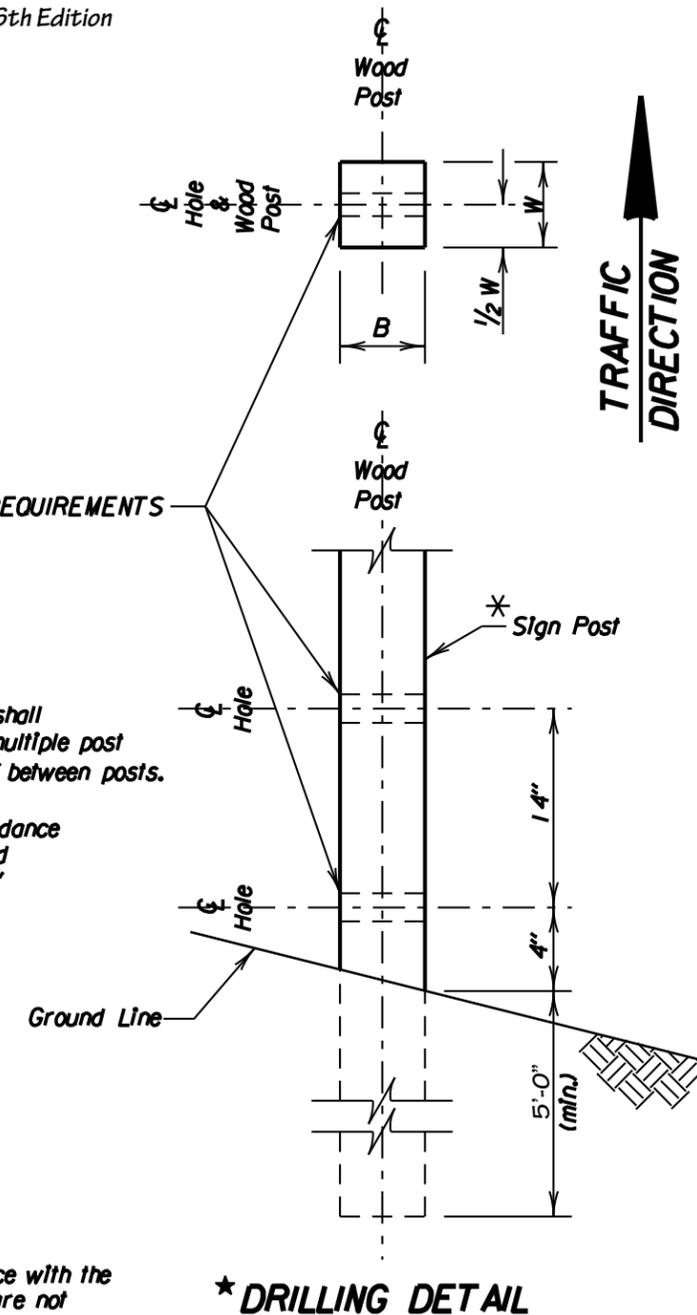
**WESTERN RED CEDAR** - No more than two 4" X 4" or 4" X 6" posts shall be allowed in a 7' width. All posts 6" X 6" and larger used in multiple post installations shall be spaced with a minimum clear distance of 7' between posts.

**OTHER POSTS** - All posts 4" X 6" and larger shall be drilled in accordance with the details shown. As an added requirement, all 4" X 6" and larger posts used in multiple post installations shall be spaced 7' or more apart.

### HOLE SIZE REQUIREMENTS

B X W	HOLE DIA.
4" X 6"	1 1/2" φ
6" X 6"	2" φ
6" X 8"	3" φ

\* **NOTE:** All posts 4" X 6" and larger shall be field drilled in accordance with the above requirements, except 4" X 6" Western Red Cedar posts are not required to be drilled.



Breakaway Provisions: Reference FHWA acceptance letters dated 6/4/91 (Code SS-25) and 9/3/93 (Code SS-36), 6/17/94 and 9/21/95.



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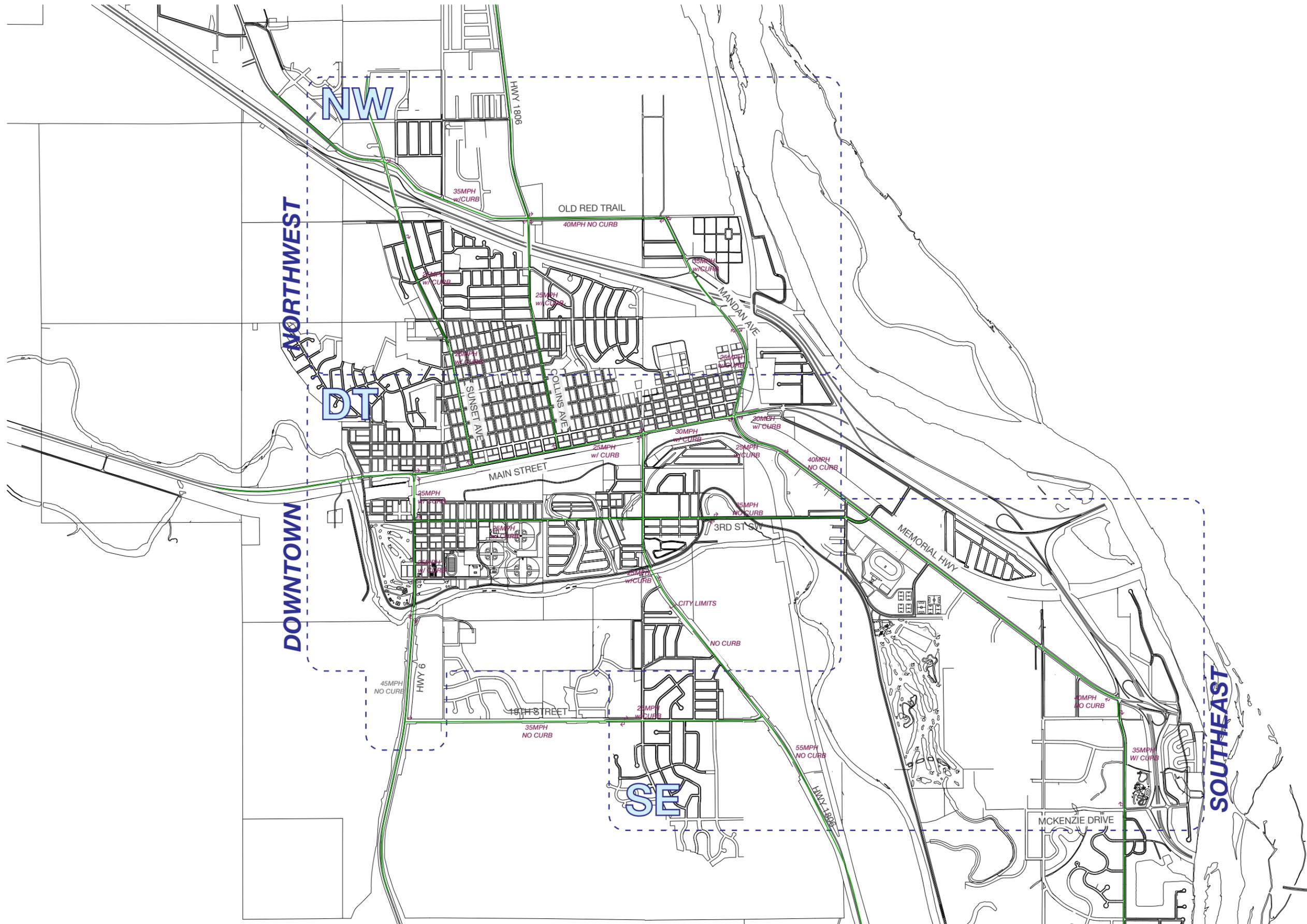
Date: 10/15/2017  
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MUTCD Post Details



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Base Map



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**Destination List**

- DT1** LIBRARY
- DT2** DYKSHOORN PARK
- DT3** MANDAN DEPOT
- DT4** HERITAGE PARK
- DT5** CITY HALL
- DT6** COURTHOUSE
- DT7** POLICE DEPT.
- DT8** POST OFFICE
- DT9** \*\*NOT USED
- DT10** TROLLEY
- DT11** BALL DIAMONDS
- DT12** DOG PARK
- DT13** MUNICIPAL GOLF COURSE
- DT14** LEGION PARK
- DT15** FORT LINCOLN ELEMENTARY

**DOWNTOWN**

- NW1** MIDDLE SCHOOL
- NW2** RR MUSEUM
- NW3** RED TRAIL ELEMENTARY
- NW4** LIONS PARK/WALKING TRAIL
- NW5** AQUATIC CTR
- NW6** ALL SEASONS ARENA
- NW7** HIGH SCHOOL
- NW8** SPORTS COMPLEX
- NW9** UNIVERSAL PLAYGROUND
- NW10** UNION CEMETERY
- NW11** ARCHERY RANGE
- NW12** NATURE TRAIL

**NORTHWEST**

- SE1** CENTENNIAL PARK
- SE2** SOCCER COMPLEX
- SE3** PRAIRIE WEST GOLF COURSE
- SE4** VETERANS MEMORIAL PARK
- SE5** WATER PARK
- SE6** FAMILY WELLNESS

**SOUTHEAST**

**PLEASE NOTE THAT ALL DESTINATIONS SHOWN ON RELEVANT LOCATION PLANS**

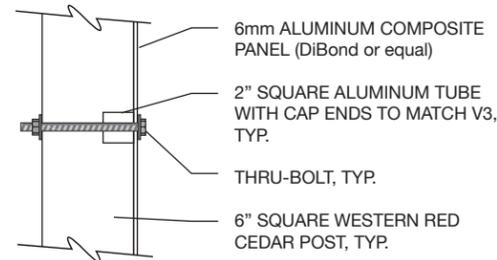
**NOTE:**  
 - PRIMARY DESTINATIONS IN BOLD  
 - SECONDARY DESTINATIONS IN ITALIC

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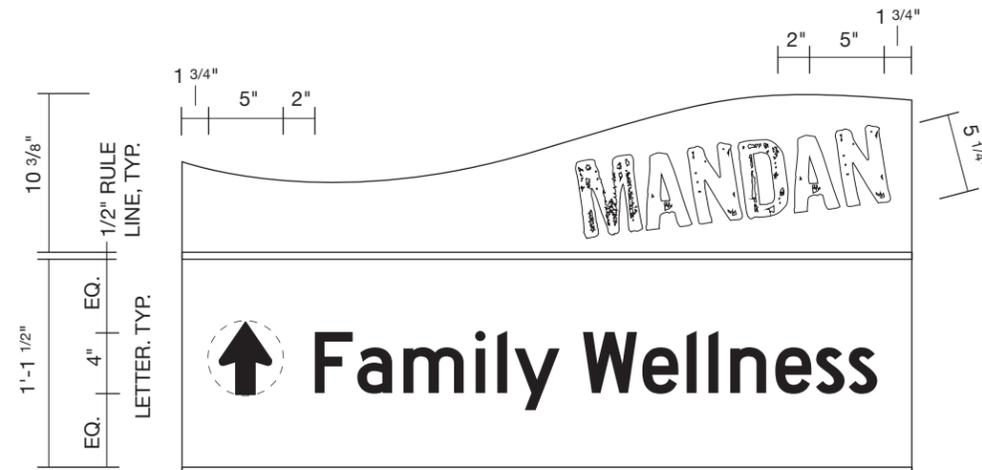


www.decksdirect.com/sirius-post-cap.html or equal. Sample required.

**D** POST CAP  
VEH1.00 SCALE: NTS



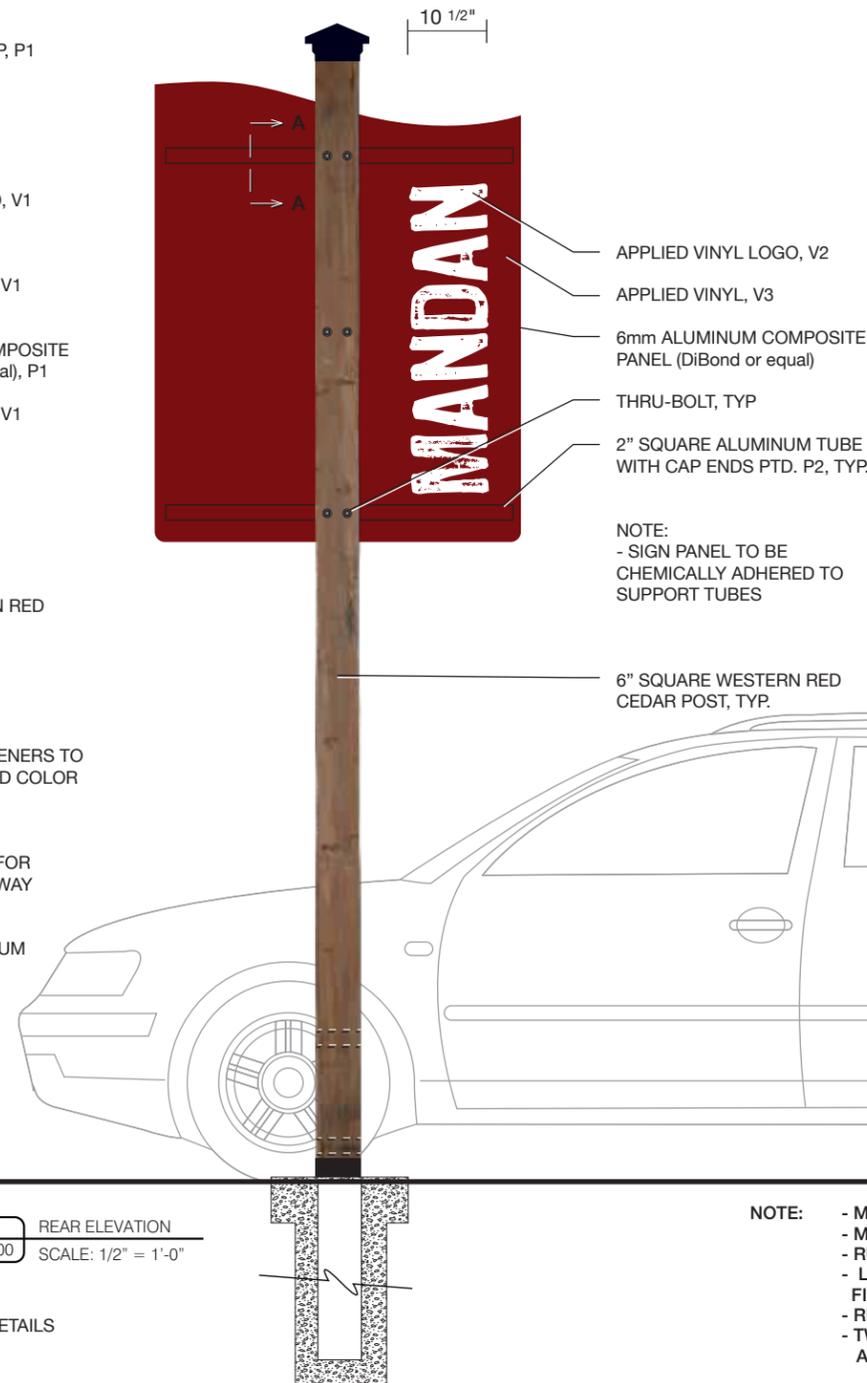
**E** SECTION DETAIL AA, TYPICAL  
VEH1.00 SCALE: NTS



**C** SIGN PANEL DETAIL  
VEH1.00 SCALE: 1" = 1'-0"



**A** FRONT ELEVATION  
VEH1.00 SCALE: 1/2" = 1'-0"



**B** REAR ELEVATION  
VEH1.00 SCALE: 1/2" = 1'-0"

NOTE:  
- SIGN PANEL TO BE CHEMICALLY ADHERED TO SUPPORT TUBES

NOTE:  
- MESSAGES SHOWN DO NOT REFLECT AN ACTUAL SIGN PANEL  
- MESSAGES ARE GROUPED BY DIRECTIONAL ARROWS  
- RULE LINES ARE REQUIRED WITH EACH CHANGE IN DIRECTION  
- LEFT ARROWS CENTER ALIGNED AND TO THE LEFT OF FIRST LINE OF DESTINATION  
- RIGHT ARROW MUST BE PLACED TO RIGHT OF THE LONGEST LINE OF TEXT  
- TWO LINE RIGHT DESTINATION, RIGHT ARROW TO BE CENTER ALIGNED WITH BOTTOM LINE OF TEXT



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City-Wide Vehicular  
Wayfinding

Prepared for:  
The City of Mandan  
205 Second Avenue NW,  
Mandan, ND 58554

Client Contact:  
Ellen Huber, CEC  
Business Development &  
Communications Director  
Office 701-667-3485  
Cell 701-400-6249

Date: 10/15/2017  
Revisions:  
- 05/24/2018

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Drawn by: RB

Vehicular Directional

1.00

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 City-Wide Vehicular Wayfinding  
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 Revisions:  
 - 05/14/2018

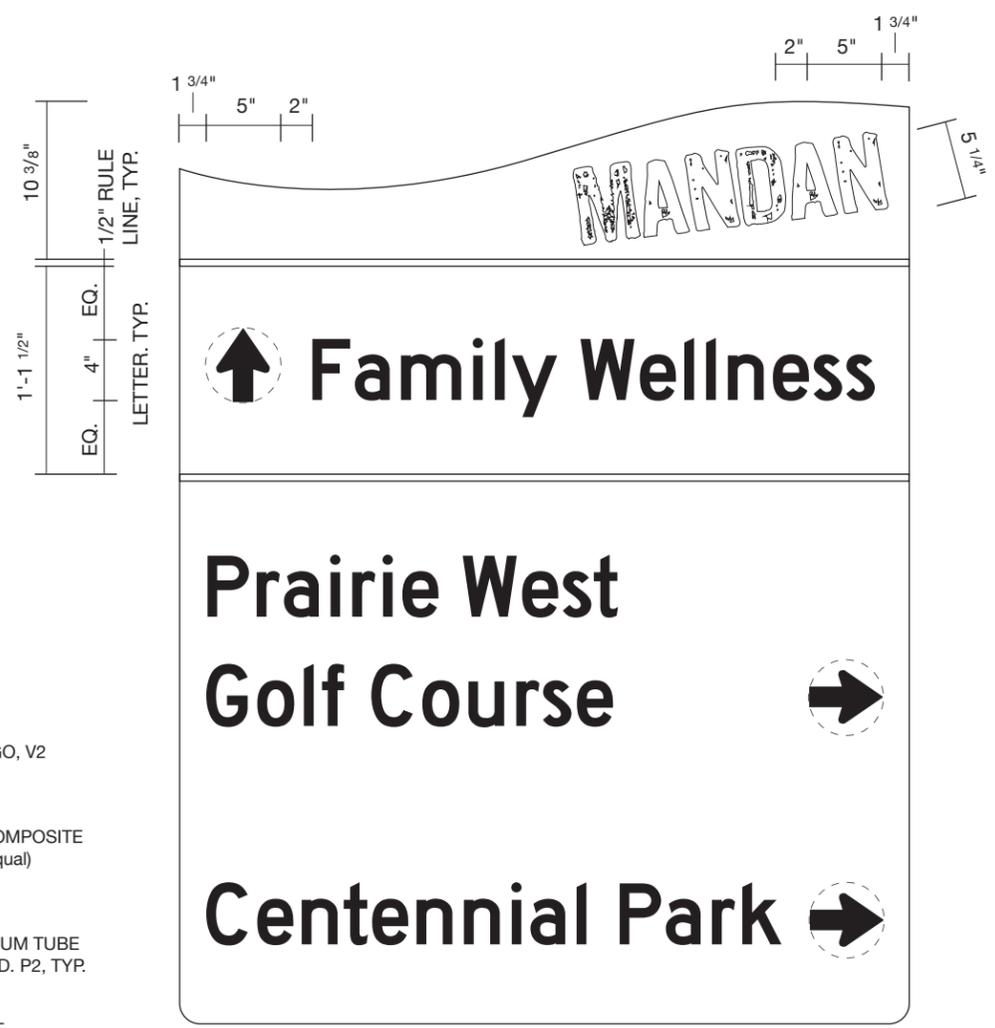
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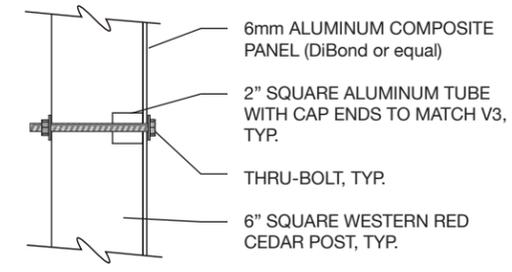
**Vehicular Directional w/ Parking**

**2.00**



[www.decksdirect.com/sirius-post-cap.html](http://www.decksdirect.com/sirius-post-cap.html) or equal. Sample required.

**D POST CAP**  
 VEH2.00 SCALE: NTS



NOTE:  
 - MESSAGES SHOWN DO NOT REFLECT AN ACTUAL SIGN PANEL  
 - MESSAGES ARE GROUPED BY DIRECTIONAL ARROWS  
 - RULE LINES ARE REQUIRED WITH EACH CHANGE IN DIRECTION  
 - LEFT ARROWS CENTER ALIGNED AND TO THE LEFT OF FIRST LINE OF DESTINATION  
 - RIGHT ARROW MUST BE PLACED TO RIGHT OF THE LONGEST LINE OF TEXT  
 - TWO LINE RIGHT DESTINATION, RIGHT ARROW TO BE CENTER ALIGNED WITH BOTTOM LINE OF TEXT

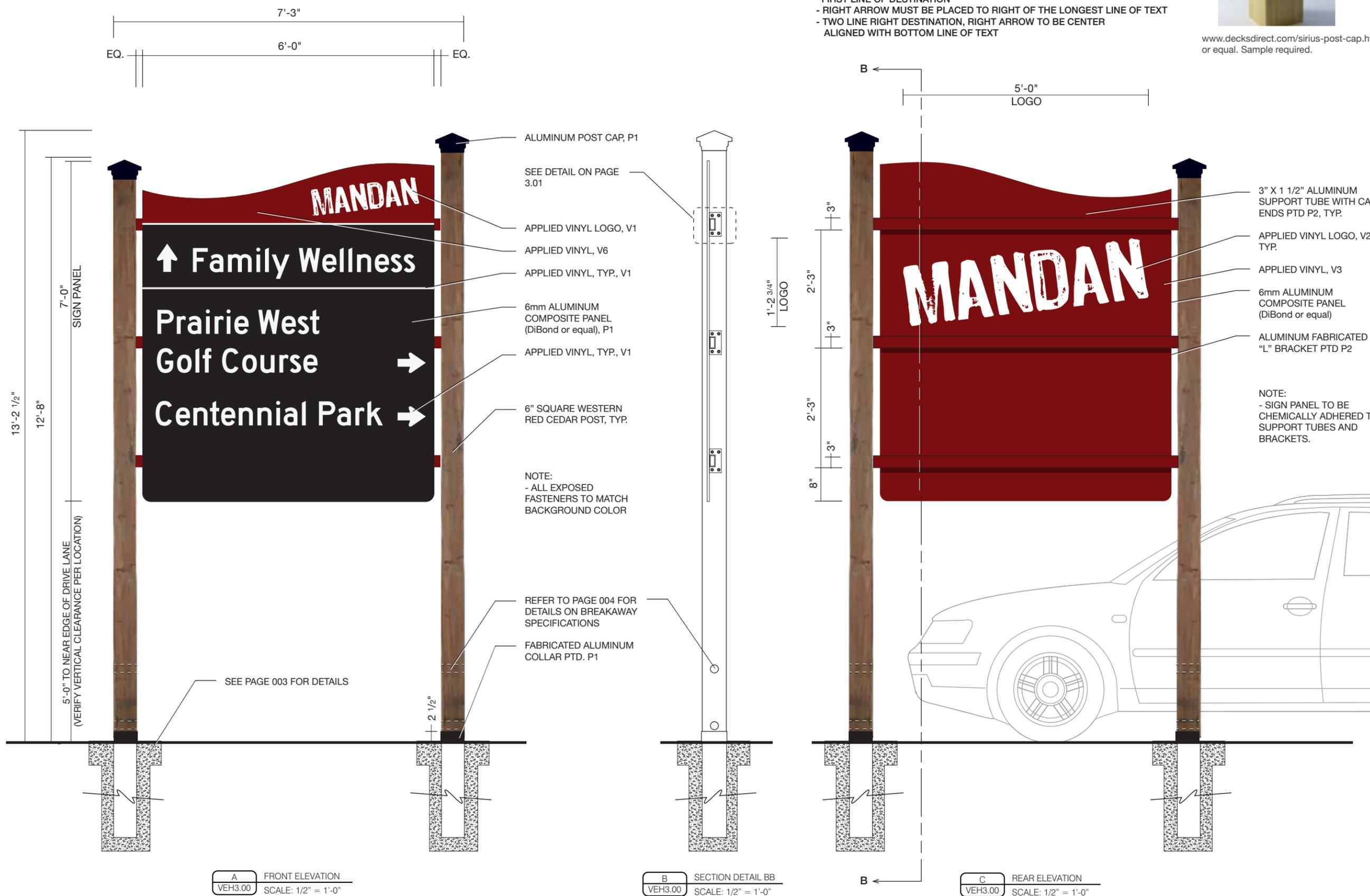
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www.decksdirect.com/sirius-post-cap.html  
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A FRONT ELEVATION  
VEH3.00 SCALE: 1/2" = 1'-0"

B SECTION DETAIL BB  
VEH3.00 SCALE: 1/2" = 1'-0"

C REAR ELEVATION  
VEH3.00 SCALE: 1/2" = 1'-0"

**BERBERICHDESIGN**  
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Contact:  
Ray Berberich  
605-430-5170  
ray@berberichdesign.com

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Drawn by: RB

**Vehicular Directional  
Large**

**3.00**

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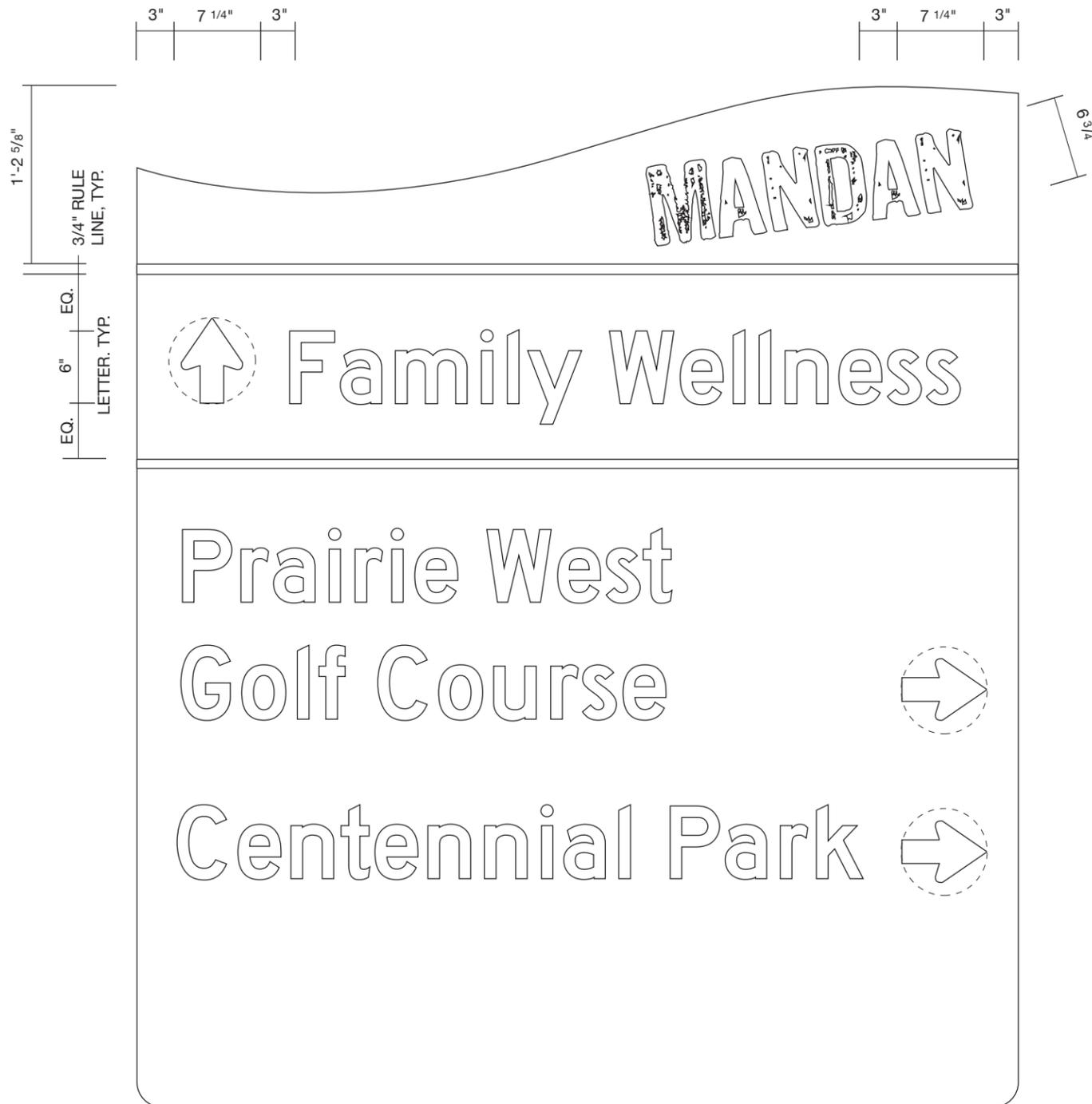
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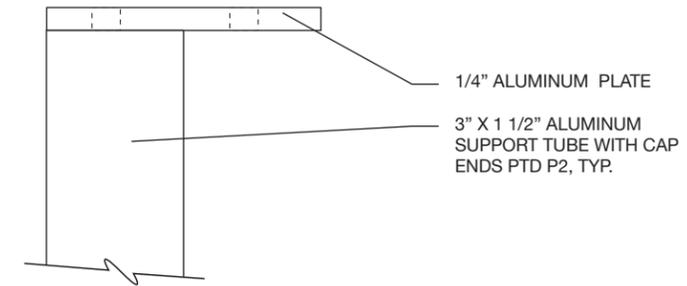
**Vehicular Directional  
Large - Details**

**3.01**

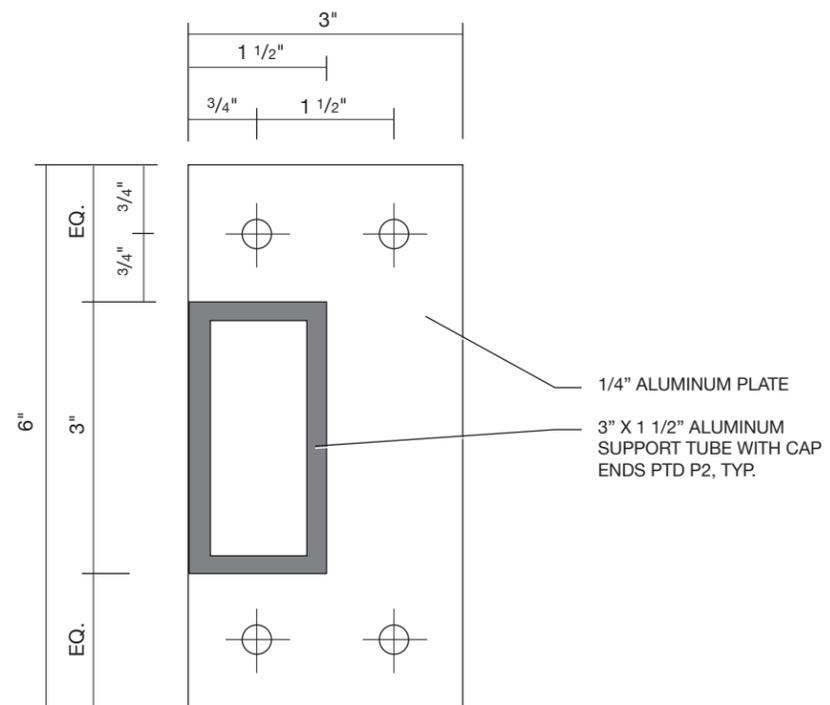


**A** SIGN ELEVATION  
VEH3.01 SCALE: 1" = 1'-0"

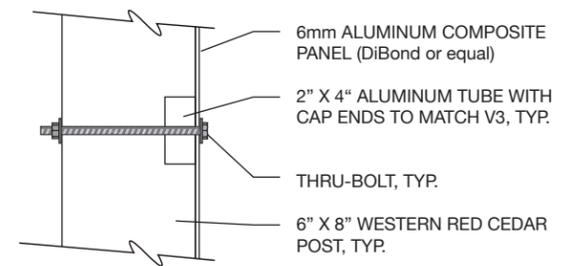
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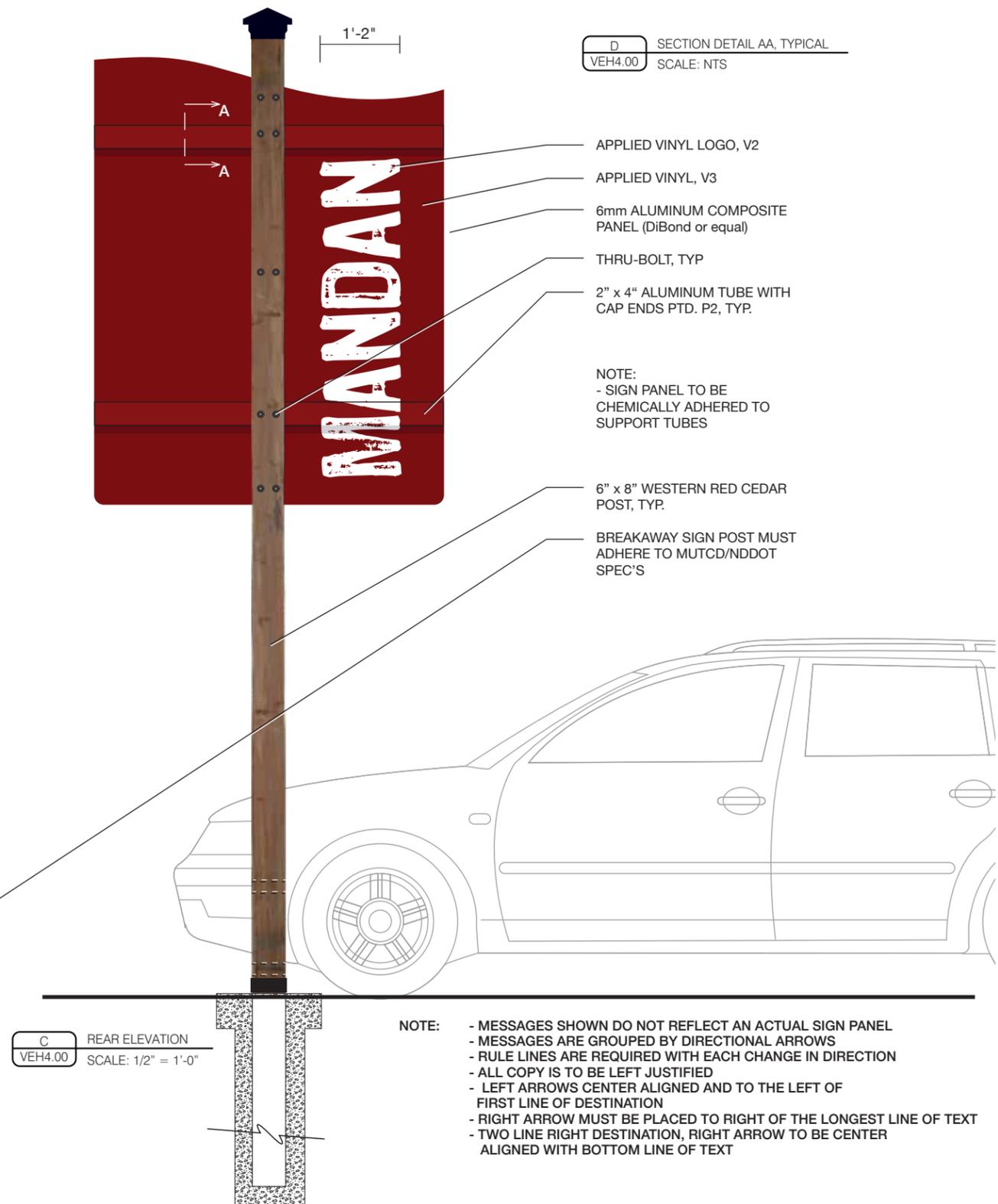
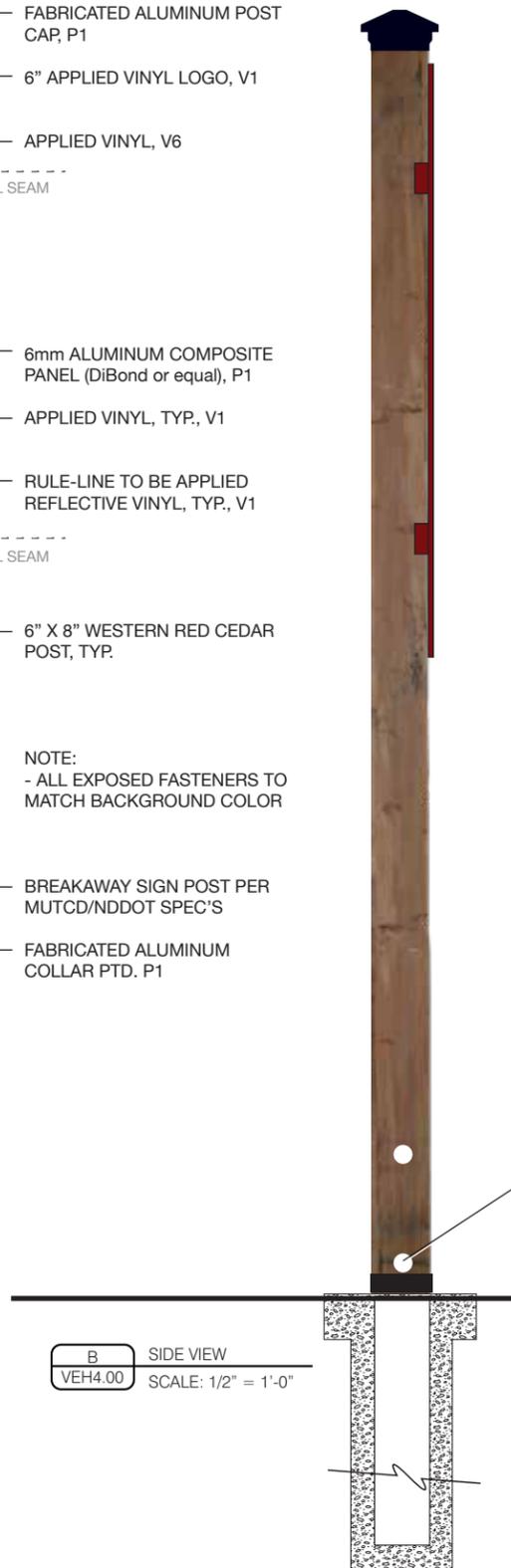
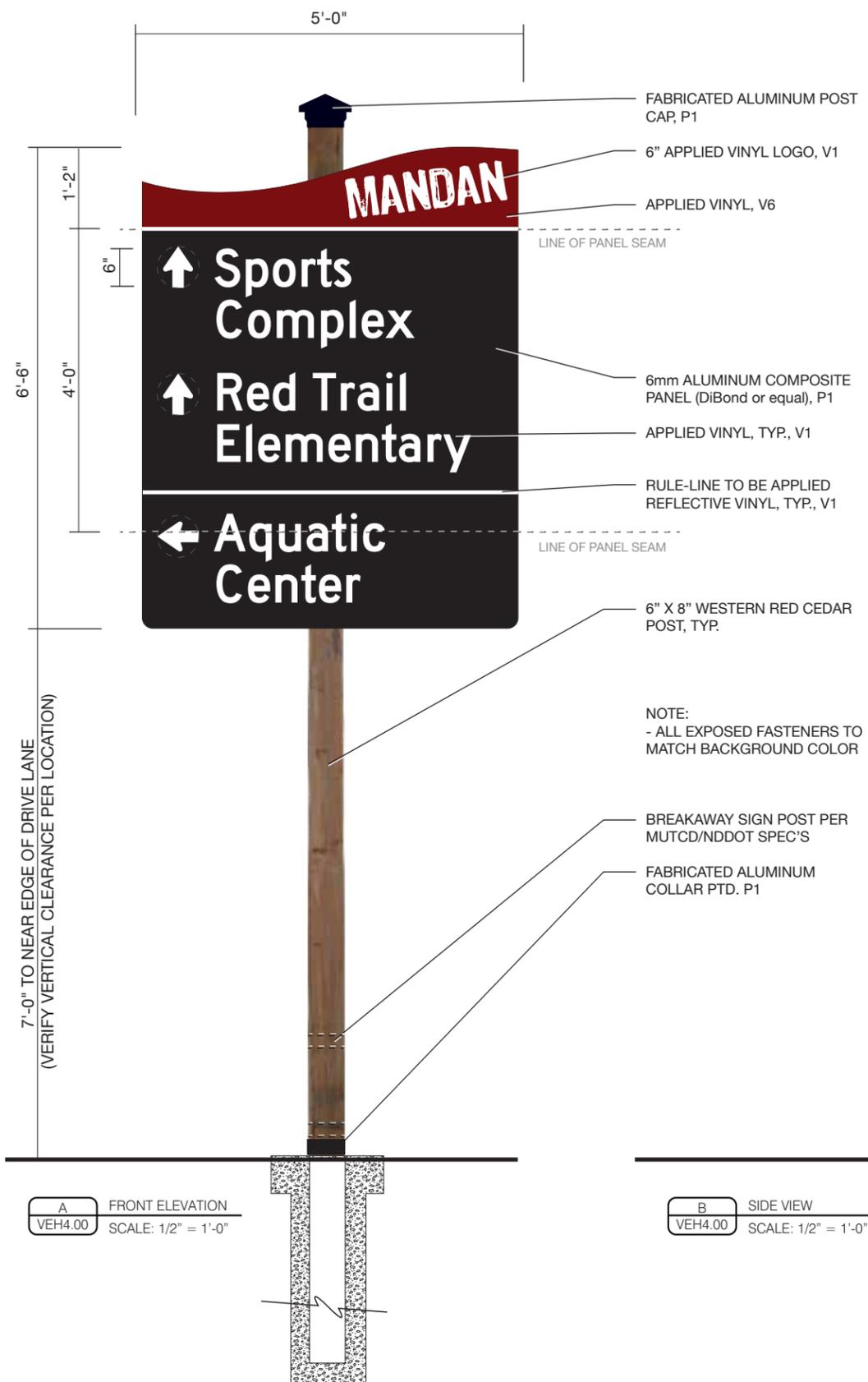
**C** SUPPORT DETAIL - TOP VIEW  
VEH3.01 SCALE: 1:2



**B** SUPPORT DETAIL - SECTION BB  
VEH3.01 SCALE: 1:2



D SECTION DETAIL AA, TYPICAL  
VEH4.00 SCALE: NTS



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 Wayfinding

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*Revisions:*  
 - 03/11/2018  
 - 05/24/2018

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**Site Identification Sign**

**5.00**

- FABRICATED ALUMINUM POST CAP, P1
- APPLIED VINYL LOGO, V1
- APPLIED VINYL, V6
- APPLIED VINYL, V1
- BACK SIDE OF SIGN PANELS TO BE PAINTED P1, TYP.
- 6mm ALUMINUM COMPOSITE PANEL (DiBond or equal), P1, TYP.
- P1
- APPLIED VINYL, V1
- APPLIED VINYL, V1
- 2" x 12" WESTERN RED CEDAR MOUNTED TO STEEL I-BEAM, PTD, TYP.
- P1

NOTE:  
 - ALL EXPOSED FASTENERS TO MATCH BACKGROUND COLOR  
 - SIGN IS DOUBLE SIDED

NOTE:  
 - THIS SIGN TYPE IS PART OF A LARGER FAMILY OF SIGN AND IS NOT INTENDED FOR USE IN THE RIGHT-OF-WAY OR IN CLEAR ZONES CONTROLLED BY THE NDDOT.  
 - INSTALL ON CITY OR PRIVATELY OWNED PROPERTY ONLY

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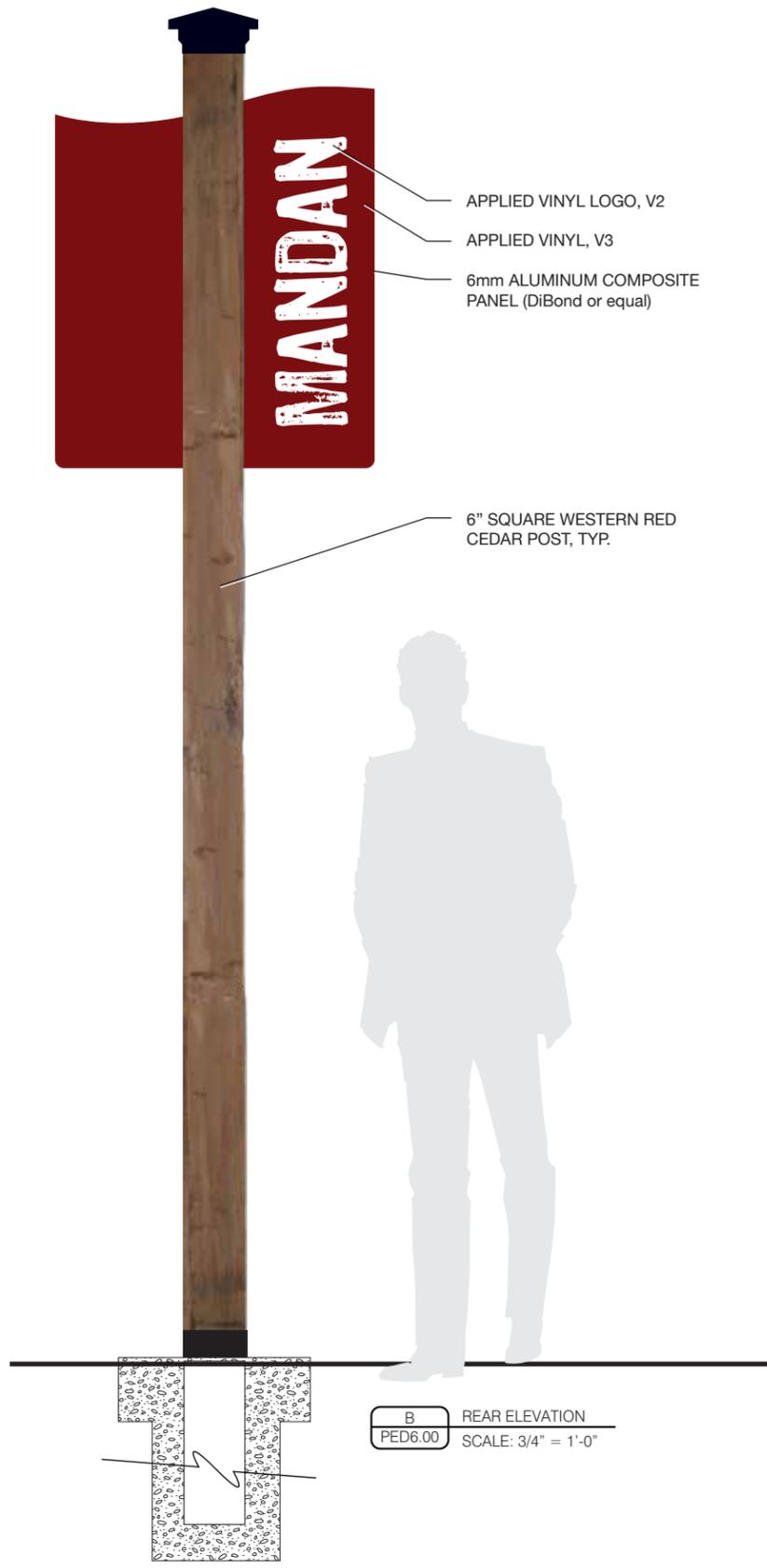
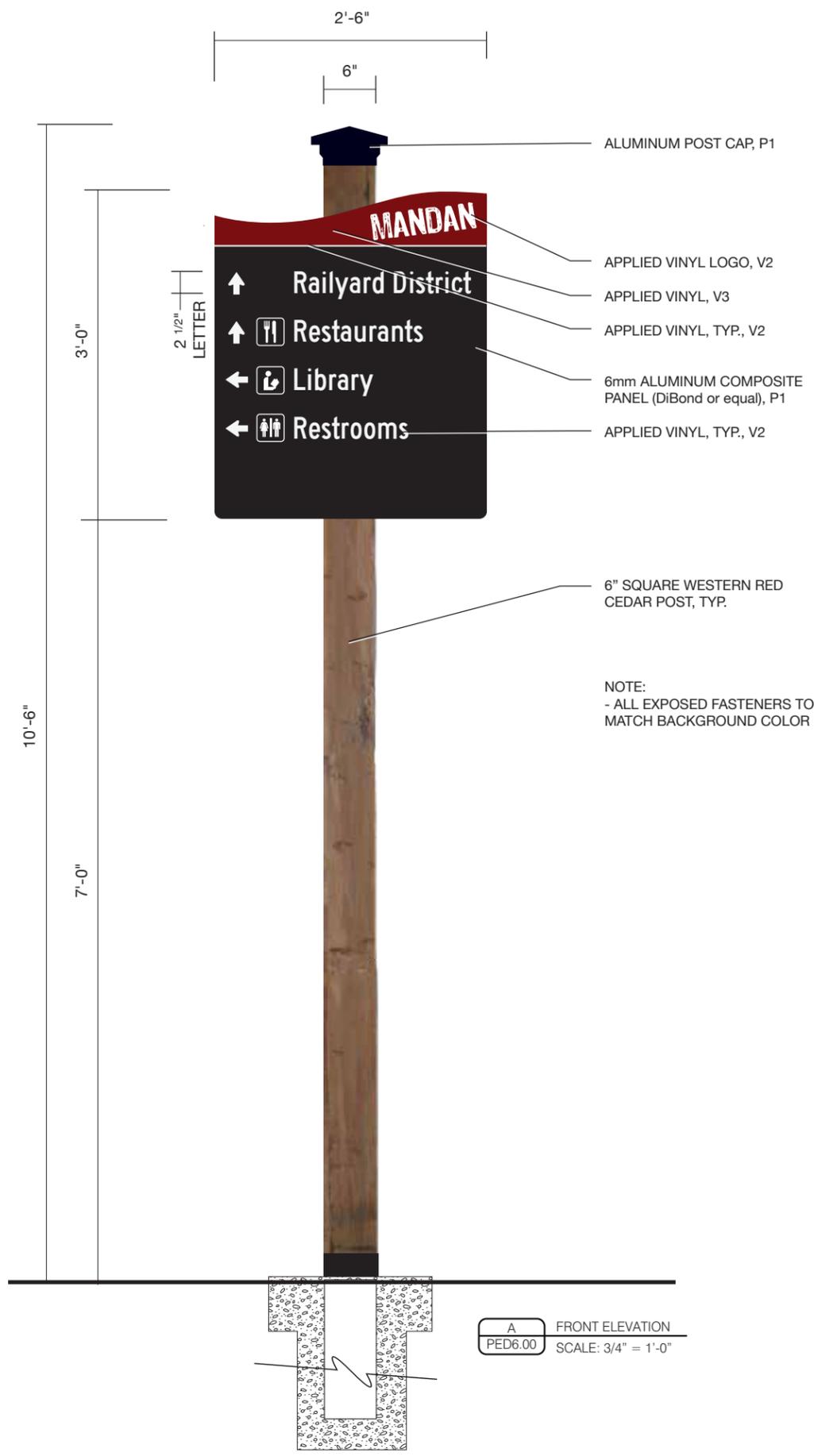
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*Drawn by:* RB

**Site Identification Sign**

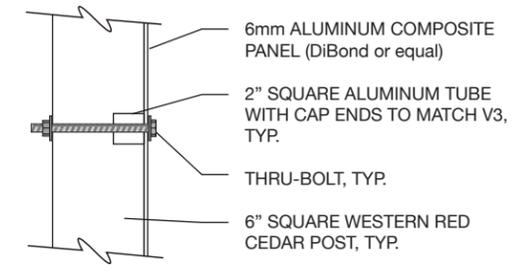
**5.10**





www.decksdirect.com/sirius-post-cap.html or equal. Sample required.

D POST CAP  
PED6.00 SCALE: NTS



E SECTION DETAIL AA, TYPICAL  
PED6.00 SCALE: NTS



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**Pedestrian Directional**

**6.00**

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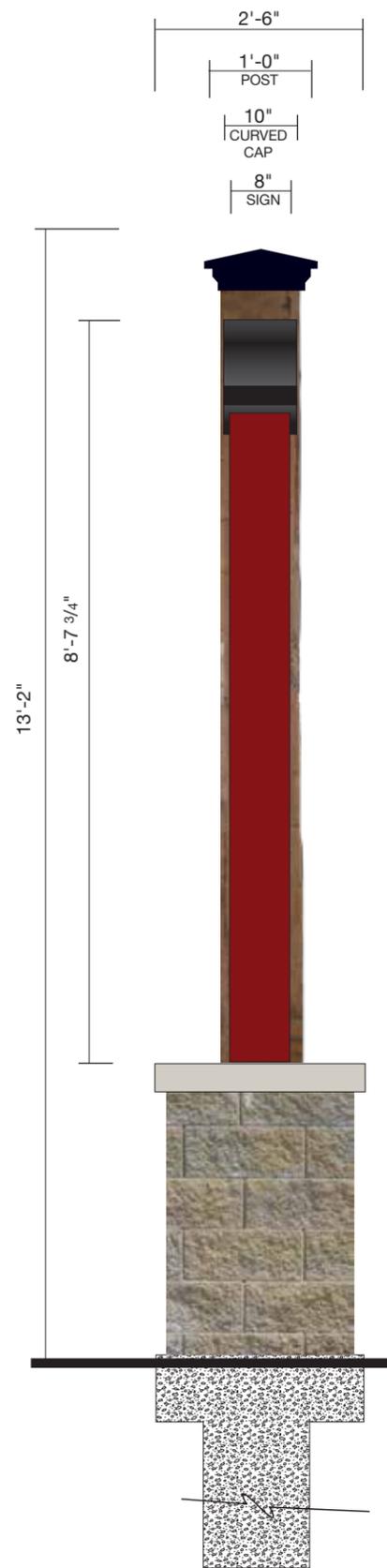
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Gateway Sign

**7.00**



**A** SIDE VIEW  
VEH7.00 SCALE: 1/2" = 1'-0"



**B** SIGN ELEVATION  
VEH7.00 SCALE: 1/2" = 1'-0"

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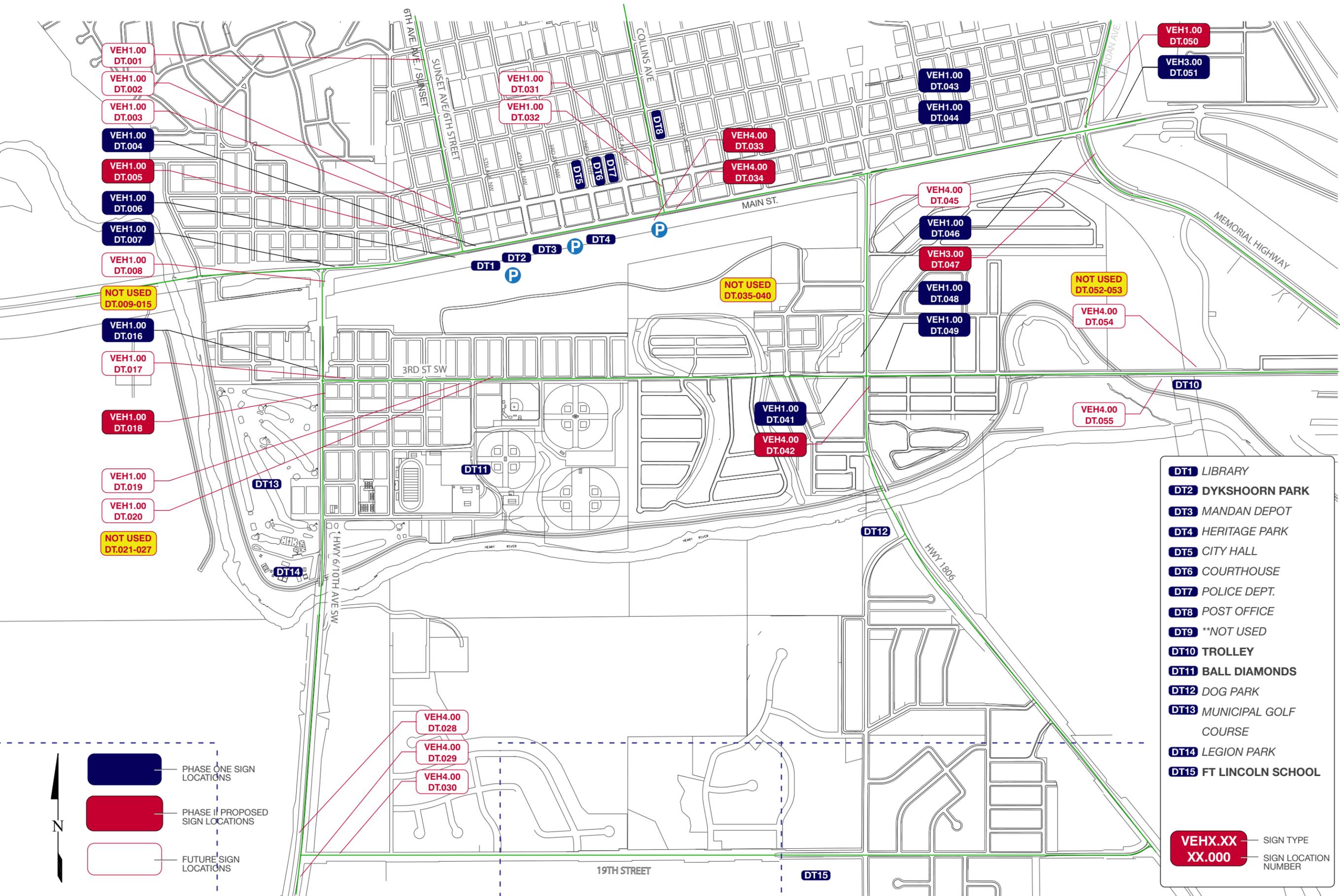
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*Drawn by:* RB

**Location Plan  
Downtown**

**DT.LP**



- DT1** LIBRARY
  - DT2** DYKSHOORN PARK
  - DT3** MANDAN DEPOT
  - DT4** HERITAGE PARK
  - DT5** CITY HALL
  - DT6** COURTHOUSE
  - DT7** POLICE DEPT.
  - DT8** POST OFFICE
  - DT9** \*\*NOT USED
  - DT10** TROLLEY
  - DT11** BALL DIAMONDS
  - DT12** DOG PARK
  - DT13** MUNICIPAL GOLF COURSE
  - DT14** LEGION PARK
  - DT15** FT LINCOLN SCHOOL
- 
- VEHX.XX** SIGN TYPE
  - XX.000** SIGN LOCATION NUMBER

- PHASE ONE SIGN LOCATIONS
- PHASE II PROPOSED SIGN LOCATIONS
- FUTURE SIGN LOCATIONS



- ↑ All Seasons Arena
- ↑ Aquatic Center
- ↑ Sports Complex

LOCATION: DT001



- ↑ Downtown

---

- ← City Hall
- ← Courthouse

LOCATION: DT002



- ↑ All Seasons Arena

---

- City Hall →
- Courthouse →

LOCATION: DT003



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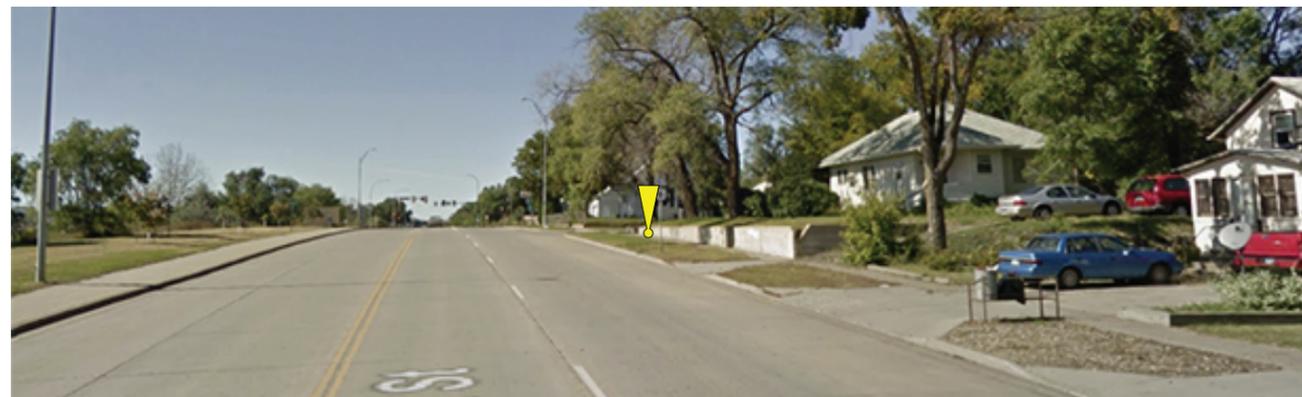
*Drawn by:* RB

**Message Schedule**

**DT\_MS00**

- PHASE ONE SIGN LOCATIONS
- PHASE II PROPOSED SIGN LOCATIONS
- FUTURE SIGN LOCATIONS

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- ↑ Ball Diamonds

---

- All Seasons Arena →
- Aquatic Center →

LOCATION: DT004

- ← Downtown
- ← Centennial Park

---

- Ball Diamonds →

LOCATION: DT005

-EXISTING "NO PARKING" SIGN TO BE REMOVE OR MOVED TO NEW LOCATION.  
 -TREES TO BE TRIMMED TO ACCOMMODATE SIGN. IF TREE-TRIMMING CANNOT OCCUR, THEN SIGN WILL BE MOVED ONE BLOCK FORWARD.

- ↑ Dykshoorn Park

---

- ← All Seasons Arena
- ← Aquatic Center

LOCATION: DT006

- ← Ball Diamonds
- ← Municipal Golf Course
- ← Legion Park

LOCATION: DT007

- PHASE ONE SIGN LOCATIONS
- PHASE II PROPOSED SIGN LOCATIONS
- FUTURE SIGN LOCATIONS



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 - 05/24/2018

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Drawn by: RB

Message Schedule

DT\_MS01

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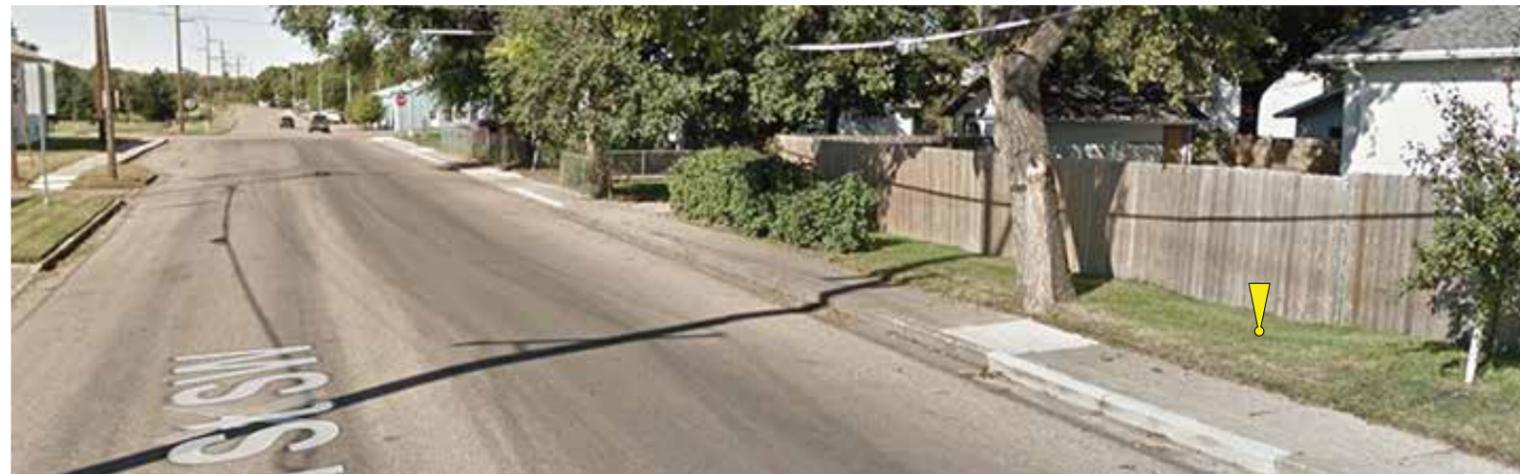
- Library →
- Dykshoorn Park →
- All Seasons Arena →

LOCATION: DT008



- ↑ Municipal Golf Course
  - ↑ Legion Park
- 
- ← Ball Diamonds

LOCATION: DT016



- ← Municipal Golf Course
  - ← Legion Park
- 
- Downtown →

LOCATION: DT017



- ↑ Downtown
- 
- Ball Diamonds →
  - Centennial Park →

LOCATION: DT018

LOCATIONS: NOT USED  
DT009-15

- PHASE ONE SIGN LOCATIONS
- PHASE II PROPOSED SIGN LOCATIONS
- FUTURE SIGN LOCATIONS



BERBERICHDESIGN  
PO Box 468  
Hill City, SD 57745  
Contact:  
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ray@berberichdesign.com

Project:  
City-Wide Vehicular  
Wayfinding

Prepared for:  
The City of Mandan  
205 Second Avenue NW,  
Mandan, ND 58554

Client Contact:  
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Business Development &  
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Office 701-667-3485  
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Date: 10/15/2017  
Revisions:  
- 03/29/2018  
- 05/14/2018

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Message Schedule

DT\_MS02

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↑ Centennial Park  
↑ Prairie West Golf Course

Ball Diamonds →

LOCATION: DT019

↑ Municipal Golf Course

↑ Legion Park

← Ball Diamonds

LOCATION: DT020

ROW WILL BE VERIFIED FOR ALL FUTURE PHASES

← Fort Lincoln Elementary

LOCATION: DT028

↑ Ball Diamonds  
↑ Municipal Golf Course

Fort Lincoln Elementary →

LOCATION: DT029

VERIFY EXISTING CONDITIONS PRIOR TO IMPLEMENTATION

LOCATIONS: NOT USED DT021-27

- PHASE ONE SIGN LOCATIONS
- PHASE II PROPOSED SIGN LOCATIONS
- FUTURE SIGN LOCATIONS



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Drawn by: RB

Message Schedule

DT\_MS03

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- Downtown →
- Municipal Golf Course →
- Ball Diamonds →

LOCATION: DT030

- City Hall →
- Courthouse →
- Law Enforcement →

LOCATION: DT031

RELOCATE EXISTING SIGN

- ↑ Post Office

---

- ← City Hall
- ← Courthouse

LOCATION: DT032

VERIFY LOCATION WITH OWNER

- ↑ Centennial Park

---

- ← Universal Playground
- ← Sports Complex

LOCATION: DT033

VERIFY ROW



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*Revisions:*  
 - 02/04/2018

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*Drawn by:* RB

**Message Schedule**

- PHASE ONE SIGN LOCATIONS
- PHASE II PROPOSED SIGN LOCATIONS
- FUTURE SIGN LOCATIONS

**DT\_MS04**

© 2017 BERBERICH DESIGN



↑ Dykshoorn Park

Universal Playground →

Sports Complex →

LOCATION: DT034

-PLACEMENT IS DEPENDENT ON UTILITY LOCATES.  
 -NDDOT CONFIRMS THAT SIGN PLACEMENT OK HERE WITH MINIMUM 4' DISTANCE BETWEEN BUILDING AND POST NEAREST BUILDING. (AS PER AASHTO REQUIREMENTS.)

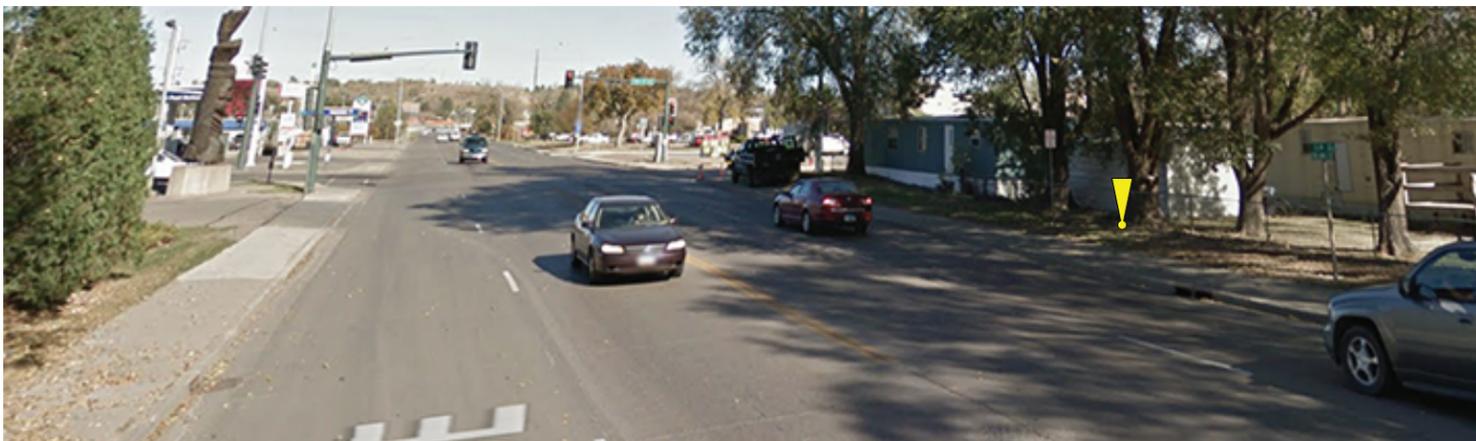


↑ Centennial Park

↑ Prairie West Golf Course

← Downtown

LOCATION: DT041



← Ball Diamonds  
 ← Municipal Golf Course

Centennial Park →

LOCATION: DT042



↑ Centennial Park

↑ Prairie West Golf Course

← Ball Diamonds

LOCATION: DT043

LOCATIONS: NOT USED DT035-40

- PHASE ONE SIGN LOCATIONS
- PHASE II PROPOSED SIGN LOCATIONS
- FUTURE SIGN LOCATIONS



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Drawn by: RB

Phase IV  
 Message Schedule

DT\_MS05

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- ↑ Downtown
- ↑ Dykshoorn Park
- ← Ball Diamonds

LOCATION: DT044



- ← Downtown
- ← Dykshoorn Park
- ← Library

LOCATION: DT45

VERIFY LOCATION TO ACCOMMODATE PROPER SIGN SPACING BETWEEN SIGN



- Centennial Park →
- Pairie West Golf Course →
- Water Park →

LOCATION: DT046



- ↑ Sports Complex
- ← Downtown
- ← Dykshoorn Park

LOCATION: DT47

- PHASE ONE SIGN LOCATIONS
- PHASE II PROPOSED SIGN LOCATIONS
- FUTURE SIGN LOCATIONS



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Drawn by: RB

Message Schedule

DT\_MS06

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← Centennial Park  
 ← Prairie West Golf Course  
 Ball Diamonds →

LOCATION: DT048



↑ Ball Diamonds  
 ↑ Legion Park  
 Downtown →

LOCATION: DT049



↑ Centennial Park  
 ↑ Water Park  
 Downtown →

LOCATION: DT050

- BASED ON EXISTING NDDOT SIGN LOCATIONS, THE NEW LOCATION SHOULD BE IN THE ROW.  
 - NDDOT CONFIRMS OK ASSUMING ROW VERIFIED.



↑ Downtown  
 ← Centennial Park  
 ← Prairie West Golf Course

LOCATION: DT051

PHASE ONE SIGN LOCATIONS  
 PHASE II PROPOSED SIGN LOCATIONS  
 FUTURE SIGN LOCATIONS



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Drawn by: RB

Message Schedule

DT\_MS07

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↑ Municipal Golf Course

↑ Ball Diamonds

---

← Trolley

**LOCATION: DT54**

VERIFY ROW AND ADJUST LOCATION AS NEEDED



↑ Centennial Park

↑ Prairie West Golf Course

---

Trolley →

**LOCATION: DT55**

**LOCATIONS: NOT USED DT52-53**

- PHASE ONE SIGN LOCATIONS
- PHASE II PROPOSED SIGN LOCATIONS
- FUTURE SIGN LOCATIONS

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**Message Schedule**

**DT\_MS08**

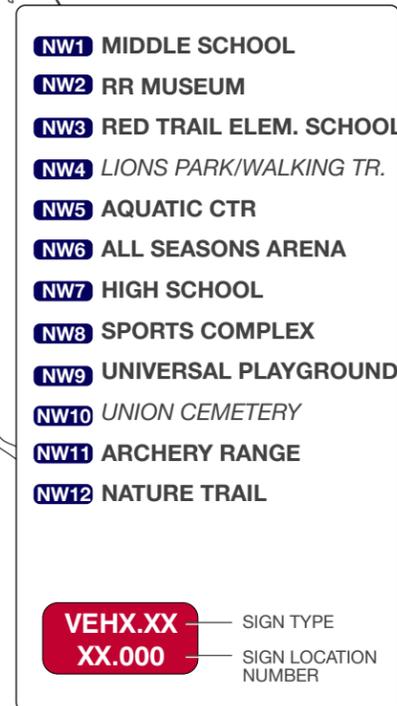
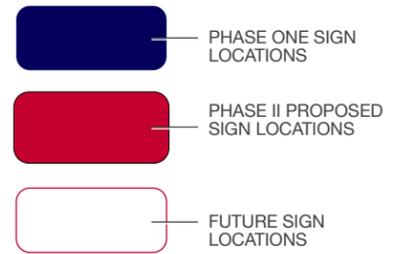
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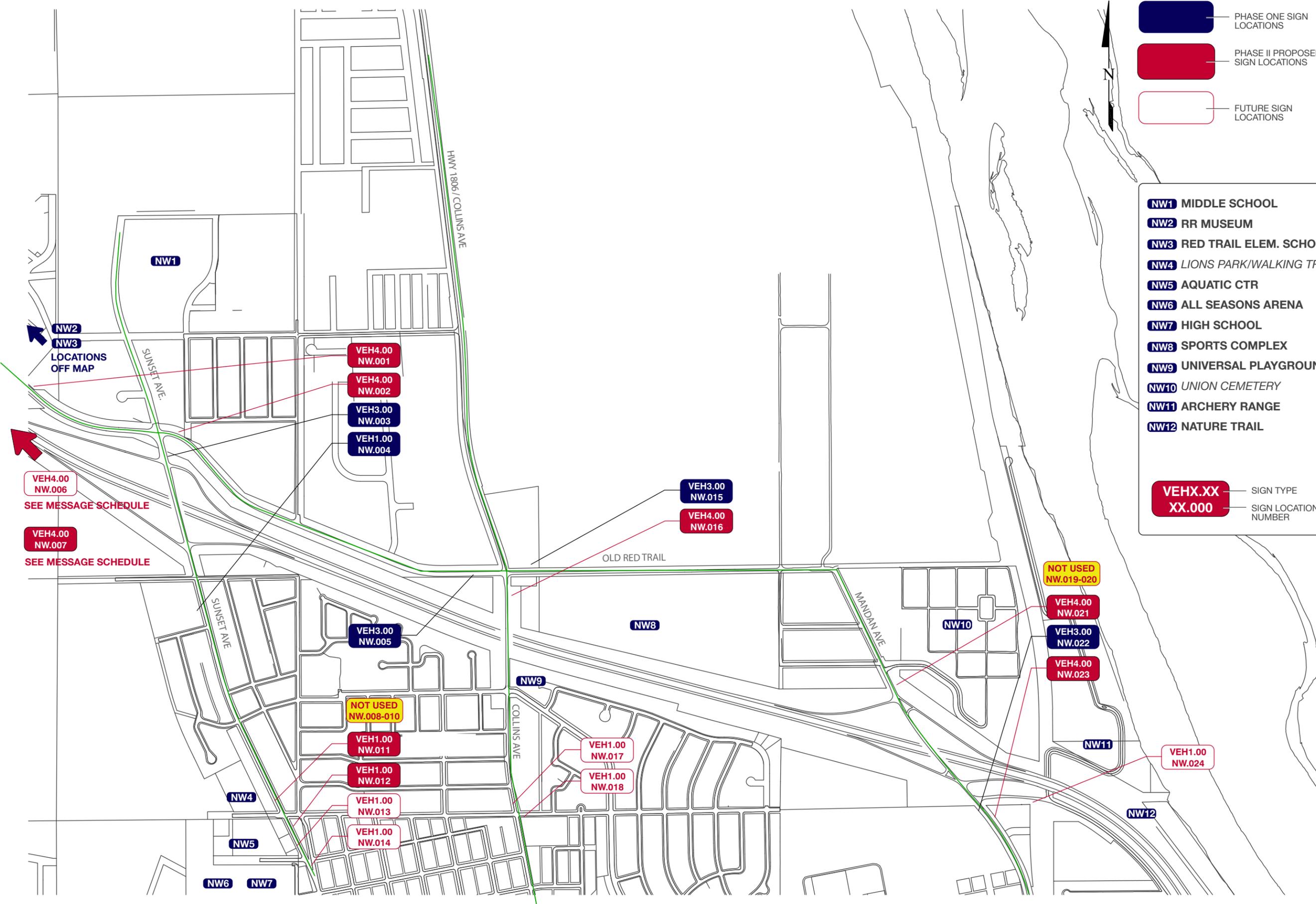
Drawn by: RB

**Location Plan  
Northwest**

**NW\_LP**



- NW1 MIDDLE SCHOOL
- NW2 RR MUSEUM
- NW3 RED TRAIL ELEM. SCHOOL
- NW4 LIONS PARK/WALKING TR.
- NW5 AQUATIC CTR
- NW6 ALL SEASONS ARENA
- NW7 HIGH SCHOOL
- NW8 SPORTS COMPLEX
- NW9 UNIVERSAL PLAYGROUND
- NW10 UNION CEMETERY
- NW11 ARCHERY RANGE
- NW12 NATURE TRAIL





- ↑ ND Railroad Museum
- ↑ Red Trail Elementary

LOCATION: NW001



- ↑ ND Railroad Museum
- ← All Seasons Arena
- ← Aquatic Center

LOCATION: NW002

MAINTAIN PROPER SIGN SPACING



- ↑ Middle School
- Universal Playground →
- Sports Complex →

LOCATION: NW003



- ↑ All Seasons Arena
- ↑ Aquatic Center
- ↑ Downtown

LOCATION: NW004

- PHASE ONE SIGN LOCATIONS
- PHASE II PROPOSED SIGN LOCATIONS
- FUTURE SIGN LOCATIONS



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 - 02/05/2018

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Message Schedule

NW\_MS01

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↑ Sports Complex

---

Universal Playground →

Downtown →

LOCATION: NW005

Red Trail Elementary →

LOCATION: NW006

ROADWAY HAS CHANGED.  
PLACE SIGN AT THE  
BEGINNING THE TAPER OF THE  
RIGHT TURN LANE

↑ Red Trail Elementary

---

← ND Railroad Museum

LOCATION: NW007

↑ Downtown

---

All Seasons Arena →

Aquatic Center →

LOCATION: NW011

RELOCATION EXISTING SIGN  
AND CHECK SIGN SPACING

LOCATIONS: NOT USED  
NW008 - 010

- PHASE ONE SIGN LOCATIONS
- PHASE II PROPOSED SIGN LOCATIONS
- FUTURE SIGN LOCATIONS



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Drawn by: RB

Message Schedule

NW\_MS02

© 2017 BERBERICH DESIGN



- ↑ Middle School

---

- ← All Seasons Arena
- ← Aquatic Center

LOCATION: NW012



- ↑ Downtown

---

- All Seasons Arena →
- Aquatic Center →

LOCATION: NW013

- VERIFY MESSAGE WITH OWNER
- VERIFY SIGN SPACING



- ↑ Middle School

---

- ← All Seasons Arena
- ← Aquatic Center

LOCATION: NW014

- VERIFY MESSAGE WITH OWNER
- VERIFY SIGN SPACING



- ↑ ND Railroad Museum

---

- ← Universal Playground
- ← Downtown

LOCATION: NW015

- PHASE ONE SIGN LOCATIONS
- PHASE II PROPOSED SIGN LOCATIONS
- FUTURE SIGN LOCATIONS



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Drawn by: RB

**Message Schedule**

**NW\_MS03**

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- ← ND Railroad Museum
- ← Middle School

---

- Sports Complex →

LOCATION: NW016



- ↑ Downtown

---

- All Seasons Arena →
- Aquatic Center →

LOCATION: NW017

ENSURE PROPER SIGN SPACING



- ↑ Sports Complex

---

- ← All Seasons Arena
- ← Aquatic Center

LOCATION: NW018

SIGN LOCATION TO BE VERIFIED AND APPROVED BY OWNER AND NDDOT. ALTERNATE LOCATION TO BE CONSIDERED OR SIGN LOCATION TO BE DELETED.



NW.018 DETAIL IMAGE

- PHASE ONE SIGN LOCATIONS
- PHASE II PROPOSED SIGN LOCATIONS
- FUTURE SIGN LOCATIONS



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*Revisions:*  
 - 02/05/2018

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*Drawn by:* RB

**Message Schedule**

**NW\_MS04**

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- ↑ Sports Complex
- ↑ ND Railroad Museum
- ↑ Middle School

**LOCATION: NW021**

- SIGN LOCATION AND SPACING TO BE VERIFIED. (ALTERNATE LOCATION MAY BE CONSIDERED.)  
 - NDDOT APPROVES ADDITIONAL OFFSET FROM ROAD/CURB, ASSUMING SUFFICIENT ROW.  
 - TO ENSURE SIGHT TRIANGLE IS NOT OBSTRUCTED, NDDOT APPROVES INCREASE OF VERTICAL CLEARANCE TO 8', IF NEEDED.

Lorem ipsum



- ↑ Downtown
- ↑ Centennial Park
- ↑ Water Park

**LOCATION: NW022**



- ↑ Sports Complex

---

- Archery Range →
- Nature Trail →

**LOCATION: NW023**

INSTALL SIGN A MINIMUM OF 100' -0" FROM ADVANCE PEDESTRAIN SIGN. RELOCATE "NO PARKING" SIGN



- ← Archery Range
- ← Nature Trail

**LOCATION: NW024**

**LOCATIONS: NOT USED  
NW019 - 020**

- PHASE ONE SIGN LOCATIONS
- PHASE II PROPOSED SIGN LOCATIONS
- FUTURE SIGN LOCATIONS



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*Project:*  
 City-Wide Vehicular  
 Wayfinding

*Prepared for:*  
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 205 Second Avenue NW,  
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*Revisions:*  
 - 02/04/2018

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**Message Schedule**

**NW\_MS05**

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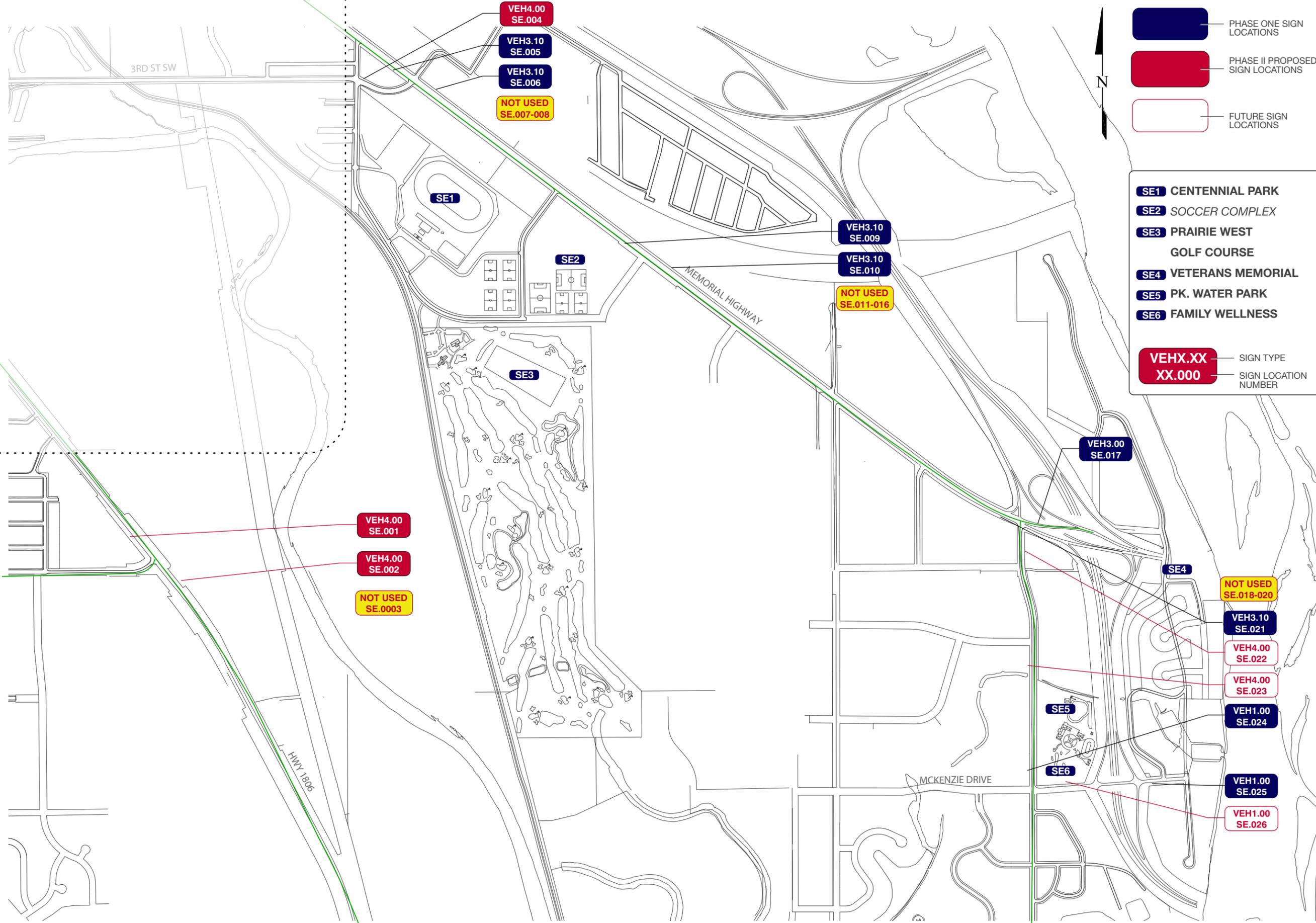
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*Drawn by:* RB

**Location Plan  
 Southeast**

**SE\_LP**





**Fort Lincoln Elementary** →

**LOCATION: SE001**



↑ **Dog Park**  
 ↑ **Centennial Park**  
 ← **Fort Lincoln Elementary**

**LOCATION: SE002**



↑ **Municipal Golf Course**  
 ↑ **Ball Diamonds**  
 ← **Centennial Park**

**LOCATION: SE004**



↑ **Water Park**  
**Centennial Park** →  
**Prairie West Golf Course** →

**LOCATION: SE005**

**LOCATIONS: NOT USED NW003**

- PHASE ONE SIGN LOCATIONS
- PHASE II PROPOSED SIGN LOCATIONS
- FUTURE SIGN LOCATIONS



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**Message Schedule**

**SE\_MS01**

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↑ Downtown

LOCATION: SE006

← Centennial Park

← Ball Diamonds



↑ Water Park

LOCATION: SE009

↑ Family Wellness

Centennial Park →



↑ Downtown

LOCATION: SE010

↑ Ball Diamonds

← Centennial Park



↑ Centennial Park

LOCATION: SE017

← Water Park

← Family Wellness

LOCATIONS: NOT USED  
SE007-008 & SE011-016

- PHASE ONE SIGN LOCATIONS
- PHASE II PROPOSED SIGN LOCATIONS
- FUTURE SIGN LOCATIONS



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Revisions:  
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Drawn by: RB

Message Schedule

SE\_MS02

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- Water Park →
- Family Wellness →
- Veterans Park →

LOCATION: SE021



- ← Downtown
- ← Centennial Park
- ← Prairie West Golf Course

LOCATION: SE022

INSTALL SIGN IN ADVNACE OF THE TURN LANES. RELOCATE "NO PARKING" SIGN



- ↑ Water Park
- ↑ Veterans Park
- ↑ Family Wellness

LOCATION: SE023



- ← Veterans Park

LOCATION: SE024

LOCATIONS: NOT USED  
NW018-020

- PHASE ONE SIGN LOCATIONS
- PHASE II PROPOSED SIGN LOCATIONS
- FUTURE SIGN LOCATIONS



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Revisions:  
- 05/24/2018

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Drawn by: RB

Message Schedule

SE\_MS03

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← Veterans Park

LOCATION: SE025



Water Park →

LOCATION: SE026

Centennial Park →

Prairie West Golf Course →



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**Message Schedule**

**SE\_MS04**

- PHASE ONE SIGN LOCATIONS
- PHASE II PROPOSED SIGN LOCATIONS
- FUTURE SIGN LOCATIONS

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