



PUBLIC WORKS COMMITTEE MEETING
Wednesday, November 11, 2020 at 1:30 PM
Caledonia Village Hall – 5043 Chester Lane

THIS WILL NOT BE AN IN-PERSON MEETING

AUDIO & VIDEO CONFERENCE VIA ZOOM

ACCESS VIA DIAL-IN NUMBER IS: 1-(312) 626-6799; ACCESS CODE IS: 815 3121 2763 OR
ACCESS VIA ONE-TOUCH TELEPHONE IS: tel: +13126266799,, 81531212763# OR
ACCESS VIA INTERNET IS: <https://us02web.zoom.us/j/81531212763>

1. Call to Order
2. Approval of Minutes
3. Prairie Pathways – Button Bush Drive Variance Request
4. Adjournment

November 6, 2020

Karie Pope
Village Clerk

Only committee members are expected to attend. However, attendance by all Board members (including non-members of the committee) is permitted. If additional (non-committee) Board members attend, three or more Board members may be in attendance. Section 19.82(2), Wisconsin Statutes, states as follows:

If one-half or more of the members of a governmental body are present, the meeting is rebuttably presumed to be for the purposes of exercising the responsibilities, authority, power or duties delegated to or vested in the body.

To the extent that three or more members of the Caledonia Village Board actually attend, this meeting may be rebuttably presumed to be a “meeting” within the meaning of Wisconsin’s open meeting law. Nevertheless, only the committee’s agenda will be discussed. Only committee members will vote. Board members who attend the committee meeting do so for the purpose of gathering information and possible discussion regarding the agenda. No votes or other action will be taken by the Village Board at this meeting.

Trustee Weatherston called the meeting to order at 1:30 p.m. in the Boardroom of the Village Hall, 5043 Chester Lane, Racine, Wisconsin via Zoom.

Present were: Trustee Stillman and Trustee Wanggaard present for Trustee Weatherston

Absent: Trustee Weatherston was excused.

Staff present: Village of Caledonia Public Works Director Tom Lazcano

1. Approval of minutes

Motion by Trustee Wanggaard to approve the minutes from the August 12, 2020 meeting. Seconded by Trustee Stillman. Motion carried unanimously.

2. Auburn Hills turnaround Tee Change Request

Tom Lazcano read from his Memorandum:

Re: Temporary Turn-around Tee Modification Request
Auburn Hills Phase 3 – Lot 73

The Engineering Department has received a request to modify the Temporary Turn-around Tee that is currently on Lot 73, in the Auburn Hills Phase 3 subdivision. The home builder has requested to remove the asphalt that is north of the Right of Way line and replace it with grass.

This Temporary Turn-around Tee is already non-standard, it was approved at the March 2018 Public Works Meeting. This tee is not centered on the road, more of the tee is in Lot 74 than in Lot 73, however, Lot 74 is larger and orientated differently so the tee does not affect the building pad as much on that lot.

The Engineering Department has reviewed the request and would be willing to allow the tee on Lot 73 be cut back to the Right of Way line if the builder can provide a truck turning template to show that plows, garbage trucks and utility vehicles would be able to turn around without going into the grass area. The Village is concerned that a future homeowner will call and complain if Village vehicles drive on the grass and damage it.

If the turning templates show that vehicle turn arounds can be made without driving on the grass, the Engineering Department would support the request to cut back the asphalt to the Right of Way line and install grass in the rest of the easement area. It should be noted that the easement area will not change.

Auburn Hills Phase 3 – Lot 73 Discussion: *(Temporary Turn-around Tee Modification)*

Trustee Wanggaard asked for clarification of what is currently in place. Lazcano explained the Temporary Turn-around Tee currently resides partially in Lot 73 what would be the future

owners' front yard. Nancy Washburn then explained the significance of the Lot in question. She went on to discuss that the engineers used a quad axle vehicle for the example in the plans to explain how cutting that current part of the asphalt Temporary Turn-around Tee would not affect turn-around radius and give it enough room. Trustee Stillman asked if a barrier could be placed to prevent the backing up into the grassy area if the asphalt were to be removed. Lazcano said that could potentially build up additional costs to the Village if it needed to be replaced.

Motion: Trustee Wanggaard motioned to approve the Lot 73 adjustment for the Temporary Turn-around Tee exhibited and presented by the Public Works Department. Seconded by Trustee Stillman.

4. Adjournment

Trustee Wanggaard motioned to adjourn. Seconded by Trustee Stillman. Motion carried unanimously. Meeting adjourned at 1:40 p.m.

Respectfully submitted,
Erika Waege, Building Admin

Date: 11/01/2020

To: Mr. Tom Lazcano
Public Works Director
Village of Caledonia
5043 Chester Lane
Racine, WI 53402

From: Mark Babich, P.E.
Pinnacle Engineering Group
20725 Watertown Road Suite 100
Brookfield, WI 53186
Ph: 262-754-8888 Fax: 262-754-8850

Subject: Request for Variance
Prairie Pathways – Button Bush Drive
Village of Caledonia, WI

Dear Mr. Lazcano,

On behalf of Newport Development Corporation, Pinnacle Engineering Group is requesting a variance to the Urban Local Road cross section design and defined under Title 18, Chapter 1, Sec. 18-1-4 (b) (2) in the Village of Caledonia Municipal Code of Ordinances, which requires a minimum right-of-way width of 66-feet and 41-foot back-of-curb to back-of-curb roadway width.

We are requesting this variance for the construction of Button Bush Drive, as part of the larger Prairie Pathways residential development. As shown in the Button Bush Drive Cross Section Exhibit provided, the proposed road shall consist of two 11.0' drive lanes, with mountable curb and gutter, creating a roadway width of 27-feet back-of-curb to back-of-curb. The right-of-way width as platted is 60-feet, a copy Prairie Pathways Subdivision Plat recorded March 10, 2006 is included with this submittal.

Regards,

PINNACLE ENGINEERING GROUP

Mark Babich, P.E.



PRAIRIE PATHWAYS

VOL. 14 P. 14-8

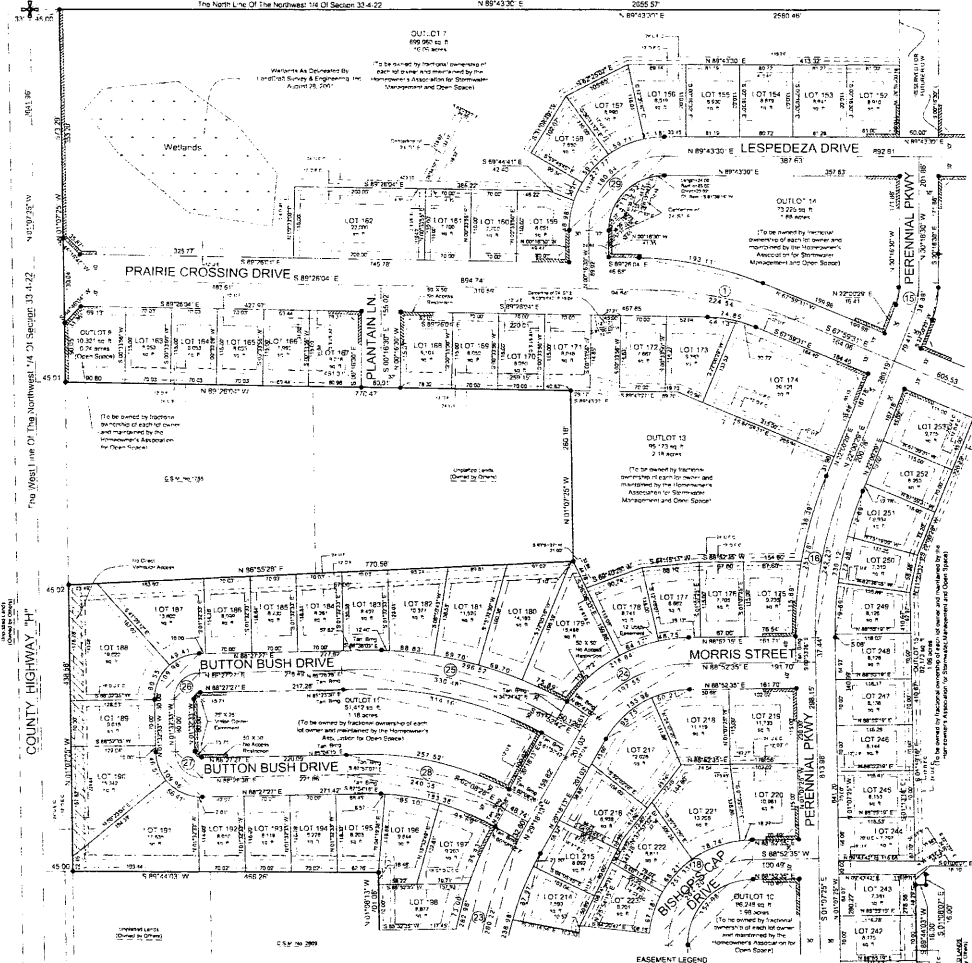
Being a replat of PRAIRIE CROSSING, being all of Outlot 1 of Certified Survey Map No. 2609, being a part of the Northeast 1/4 and Southwest 1/4 of the Northwest 1/4, lands in the Northwest 1/4 of the Northwest 1/4 and part of the Northeast 1/4 and Northwest 1/4 of the Northeast 1/4 all in Section 33, Township 4 North, Range 22 East, Village of Caledonia, Racine County, Wisconsin, excepting therefrom all lands previously dedicated

There are no references to this plat with respect to Sections 236.15, 236.16, 236.20 and 236.21 (1) and (2), Wis. Stats. as provided by s. 236.13, Wis. Stats.
Created: *William R. Henrichs*
Department of Administration

Northwest Corner Of Section 33.4.27
Corner 100' x 100'
N 20° 00' 00" E
E 250' 00" 00"
S 20° 00' 00" W
E 250' 00" 00"
Southwest Corner Of Section 33.4.27

William R. Henrichs
Feb. 27, 2006

Upper Level
County Clerk



LOT SETBACKS
FRONT: 25'
REAR: 25'
SIDE: * TOTAL BOTH SIDES
(WITH 5' MIN.)

NOTES
OUTLOT 1 TO BE REPLATED BY THE PRAIRIE PATHWAYS HOMEOWNERS ASSOCIATION BY MEANS OF A FUTURE PLAT.

DRIVE CLOSURE AND EASEMENTS
A portion of the PRAIRIE PATHWAYS is owned and shall be managed by the PRAIRIE CROSSING Homeowners Association...

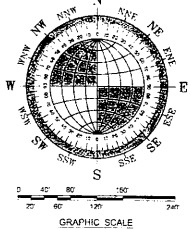
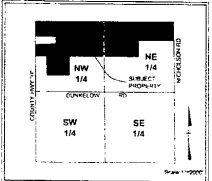
UNIFORM CONCERN EASEMENT RESTRICTION
A portion of the PRAIRIE PATHWAYS shall be subject to a 10' x 10' Uniform Concern Easement...

WETLAND PROTECTION RESTRICTION
Certain areas of the PRAIRIE PATHWAYS are identified as wetlands by the Wisconsin Department of Natural Resources...

BASELINE RESTRICTION
OUTLOT 1 TO BE REPLATED BY THE PRAIRIE PATHWAYS HOMEOWNERS ASSOCIATION BY MEANS OF A FUTURE PLAT...

- EASEMENT LEGEND**
- XX D E - Drainage Easement
 - XX D E C - Drainage Easement Carriaged or Utility
 - XX D U E - Drainage & Utility Easement
 - XX D U E C - Drainage & Utility Easement Carriaged or Utility
 - XX S E - Storm Sewer Easement
 - XX S E C - Storm Sewer Easement Carriaged or Utility
 - XX S D U E C - Storm Sewer, Drainage & Utility Easement Carriaged or Utility
 - XX U F - Utility Easement
 - XX U F C - Utility Easement Carriaged or Utility
 - XX S B C - S.B.C. Communications, Inc. Easement

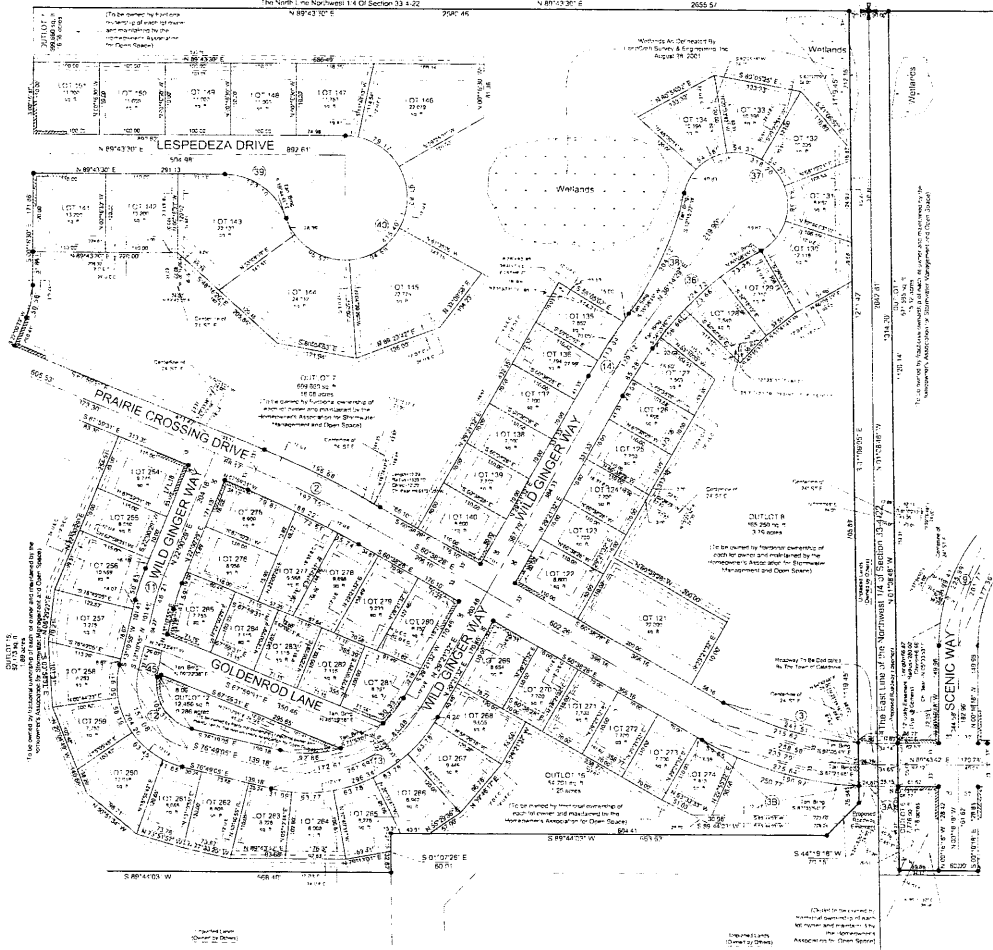
- NOTES**
- Denotes 2 1/4" x 30' per Sec. 236.15 per s. 236.13
 - "1" D 4" 2" per Sec. 236.15 per s. 236.13
 - All distances computed and measured to the nearest 0.01'
 - All angles computed to the nearest 0.00001° and measured to the nearest 0.01°
 - S.F. - Denotes lot area to the nearest square foot
 - Drainage & utility easements should also include easements for all electric, cable, telephone, etc.



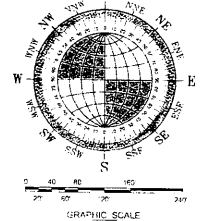
Map prepared by William R. Henrichs, P.E.
Project Engineer: Michael P. Noble, P.E.
LANDCRAFT SURVEY AND ENGINEERING, INC.
REGISTERED LAND SURVEYORS AND ENGINEERS
2571 South 10th Street, Wausau, WI 54981
715-785-1111 FAX 715-785-1111
Ruled February 27, 2006
Job No. 036401

PRAIRIE PATHWAYS

Being a replat of PRAIRIE CROSSING, being all of Outlot 1 of Certified Survey Map No. 2609, being a part of the Northeast 1/4 and Southwest 1/4 of the Northwest 1/4, lands in the Northwest 1/4 of the Northwest 1/4 and part of the Northeast 1/4 and Northwest 1/4 of the Northeast 1/4 all in Section 33, Township 4 North, Range 22 East, Village of Caledonia, Racine County, Wisconsin excepting therefrom all lands previously indicated.



North is to the North of the Wisconsin State Plane Survey System (D. C. Zone 16) and NAD 83. The Wisconsin State Plane Survey System is based on the Wisconsin State Plane Survey System (D. C. Zone 16) and NAD 83. The Wisconsin State Plane Survey System is based on the Wisconsin State Plane Survey System (D. C. Zone 16) and NAD 83.



- NOTES:**
- Demons 2.90" O.D. x 90" Iron Pipe set 3.65 lbs. per lin. ft. 1.14" O.D. x 24" Iron Pipe set 1.68 lbs. per lin. ft. all other 10' and 20' lot corners.
 - All distances measured and measured to the nearest 0.01.
 - All angles computed to the nearest 00'00"05" and measured to the nearest 00'00"05".
 - So 1: Distances to areas in the nearest square foot.
 - Drainage & utility easements shown also indicate easements from NE Electric, gas, telephone, etc.

LOT SETBACKS
 FRONT 25'
 REAR 25'
 SIDE - 17' TOTAL BOTH SIDES
 (WITH A MIN.)



EASEMENT LEGEND:

XX 01 E	Drainage Easement
XX 02 E	Drainage Easement Centered
XX 03 E	Drainage & Utility Easement
XX 04 E	Drainage & Utility Easement Centered
XX 05 E	Storm Sewer Easement
XX 06 E	Storm Sewer Easement Centered
XX 07 E	Storm Sewer, Drainage & Utility Easement Centered
XX 08 E	Utility Easement
XX 09 E	Utility Easement Centered
XX 10 E	R.A.C. Commissioners' Use Easement

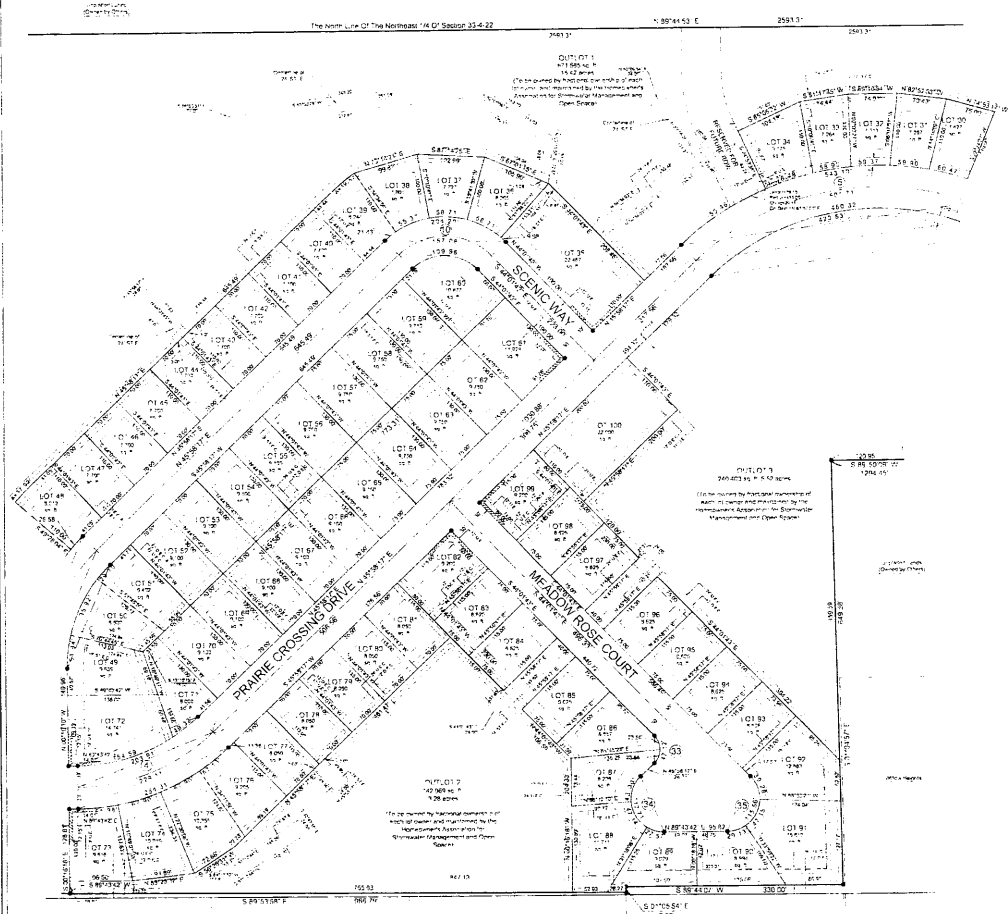
There are no objections to this plan with respect to the Wisconsin State Plane Survey System (D. C. Zone 16) and NAD 83. This plan was prepared by William R. Herricks, Wisconsin Land Surveyor, No. 5-2418, dated March 22, 2006.

Renée L. Vonn
 Department of Administration

Map prepared by William R. Herricks, R.L.S. Project Engineer, Michael P. Doyle, P.E. LANDCRAFT SURVEY AND ENGINEERING, INC. 2015 South 10th Street, Racine, WI 53402-1502
 Phone: 262-992-1100 Fax: 262-992-1101
 www.landcraft.com
 Signed February 22, 2006
 Job No. 030401

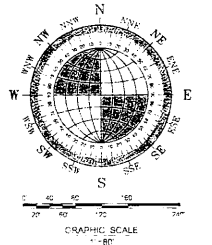
PRAIRIE PATHWAYS

Being a part of PRAIRIE CROSSING, being all of Tractor 1 of Certified Survey Map No. 2609, being a part of the Northeast 1/4 and Southwest 1/4 of the Northwest 1/4, parts of the Northwest 1/4 and part of the Northeast 1/4 and Northwest 1/4 of the Northeast 1/4 of Section 33, Township 4 North, Range 22 East, Village of Caedonia, Racine County, Wisconsin, excepting therefrom a lands previously dedicated.



William P. Henrichs
Feb. 22, 2006

Readings refer to the North of the Wisconsin State Coordinate System of 1983, Zone 16N, A, 27. The West Line of the Northwest 1/4 of Section 33, Township 4 North, Range 22 East is a reference line of N 89° 54' 53.7\"/>



- NOTES:**
- Represents 2.38" O.D. x 30" Iron Pipe set 3.66 lbs. per lin. ft. 1.54" O.D. x 24" Iron Pipe set 1.68 lbs. per lin. ft. all other lot and Plotted corners.
 - All distances computed and measured in the nearest 0.01'
 - All angles computed to the nearest 00'00"00" and measured in the nearest 00'00"00"
 - Sy 11 - Denotes lot areas in the nearest square foot
 - Drainage & Utility easements shown do not include easements from WF Easements, cable, telephone, etc.

LOT SETBACKS
FRONT 25'
REAR 25'
SIDE 17' TOTAL BOTH SIDES
(WITH 8' MIN.)

- EASEMENTS LEGEND**
- XX 1/2" E - Drainage Easement
 - XX 1/2" E C - Drainage Easement Centerline
 - XX 1/2" E C - Drainage Easement Centerline
 - XX 1/2" E C - Drainage & Utility Easement
 - XX 1/2" E C - Storm Sewer Easement
 - XX 1/2" E C - Storm Sewer Easement Centerline
 - XX 1/2" E C - Storm Sewer, Drainage & Utility Easement Centerline
 - XX 1/2" E C - Utility Easement
 - XX 1/2" E C - Utility Easement Centerline
 - XX 1/2" E C - 18" P. Storm/Drainage and Easement

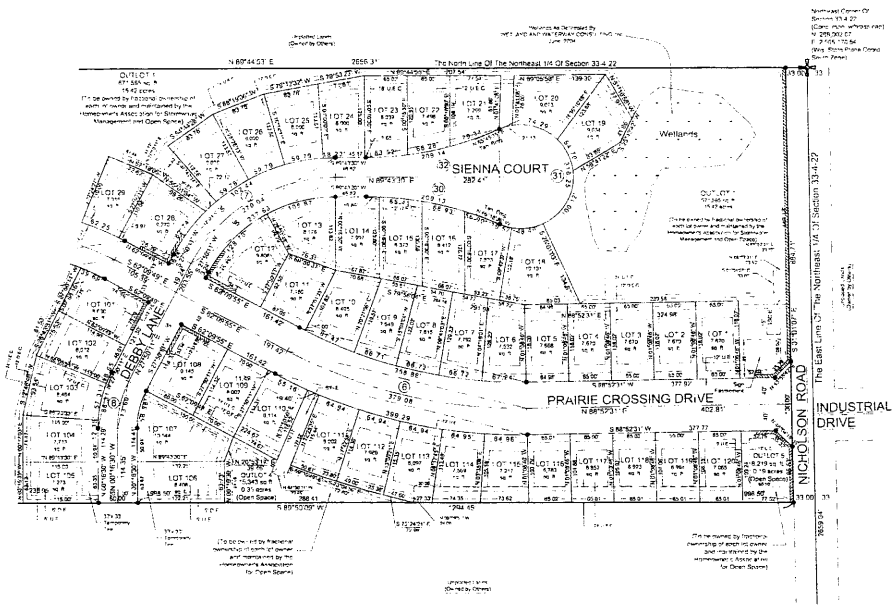
Use of public government of this State is not subject to...
William P. Henrichs
Professional Engineer
Department of Administration

Map prepared by William P. Henrichs, P.E.
Project Engineer: Michael P. Robbe, PE
LARRY RUFF, SURVEY AND ENGINEERING, INC.
SHEET 3 OF 7

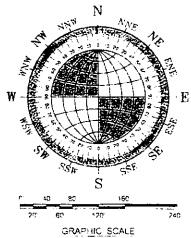
PRAIRIE PATHWAYS

Vol. 18 PG. 642

Being a replat of PRAIRIE CROSSING, being all of 0.161 of Certified Survey Map No. 2609, being a part of the Northeast 1/4 and Southwest 1/4 of the Northwest 1/4, lands in the Northwest 1/4 of the Northwest 1/4 and part of the Northeast 1/4 and Northwest 1/4 of the Northeast 1/4 a) in Section 33, Township 4 North, Range 22 East, Village of Caladonia, Racine County, Wisconsin excepting therefrom all lands previously dedicated



Bearings refer to the North of the Wisconsin State Plane Coordinate System (NAD 83). Each zone per NAD 83. The West zone of the Northwest 1/4 of Section 33, Township 4 North, Range 22 East has a reference bearing of N 0° 19' 56.70\"/>



NOTES:

- Denotes 2.000" (1/2") x 30" Iron Pipe set 3.85 lbs. per lin. ft. 1" I.D. O.D. x 240" Iron Pipe set 88 lbs. per lin. ft. all shown Lot and Outlot corners.
- All distances computed and measured to the nearest 0.01'
- All angles computed to the nearest 0°00'00.5" and measured to the nearest 0°00'01"
- Sz Pl - Denotes lot areas to the nearest square foot
- Drainage & Utility easements should also include easements from WE Energies, cable, telephone, etc.
- LOT SETBACKS**
FRONT - 35'
REAR - 25'
SIDE - 17' TOTAL BOTH SIDES (WITH 8' MIN.)

EASEMENT LEGEND

- XX D E - Drainage Easement
- XX D U E - Drainage & Utility Easement
- XX D U E C - Drainage & Utility Easement Contained
- XX S E - Storm Sewer Easement
- XX S E C - Storm Sewer Easement Contained
- XX S D U E C - Storm Sewer, Drainage & Utility Easement Contained
- XX U E - Utility Easement
- XX U E C - Utility Easement Contained
- XX S E C - Storm Sewer, Drainage & Utility Easement Contained



William R. Hennrich
10/22/2006

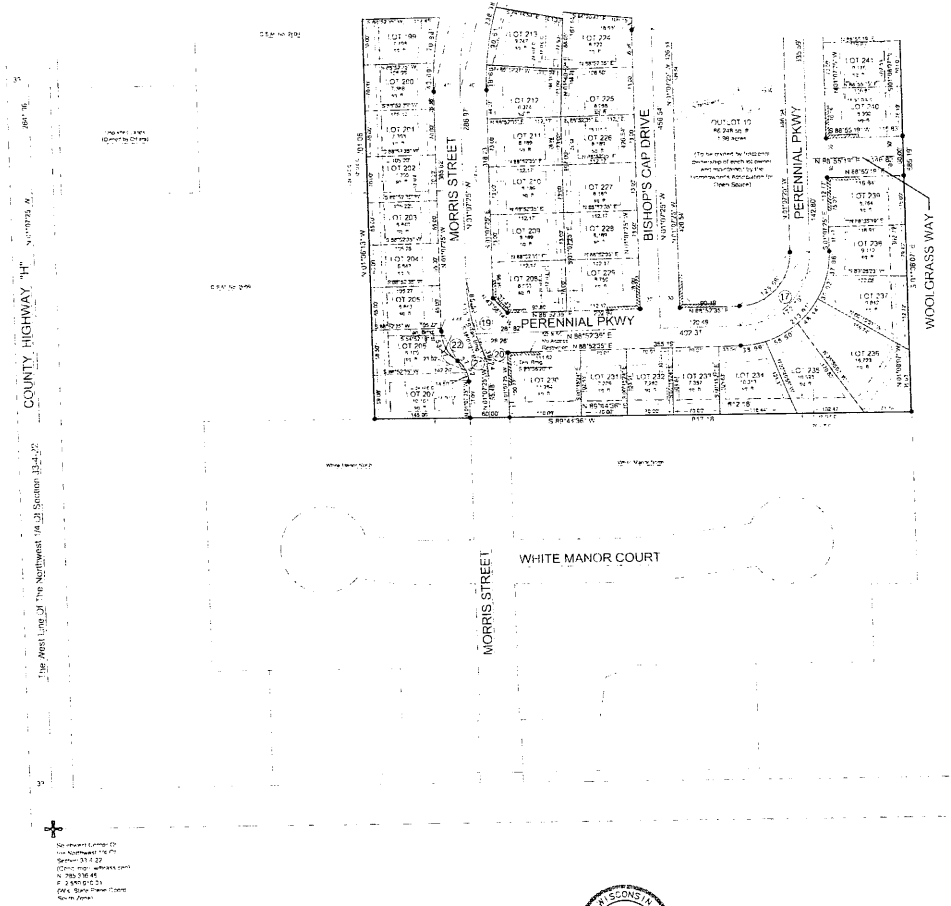
There is no objection to the plat with respect to: Secs. 33A to 33H of 335.10, 335.10 and 336.11 of the 1971 Wis. Stats. as published by s. 335.12 Wis. Stats.
Certified: *Michael J. Deane* 10/22/06
Michael J. Deane
Department of Administration

Map prepared by: William R. Hennrich, R. C. Project Engineer, Michael P. Deane, P.E. ANTONY SURVEY AND ENGINEERING, INC. 1625 WISCONSIN AVENUE AND ONE FORTYSEVEN 2007 SOUTH WISCONSIN CENTER, SUITE 100 WEST MILWAUKEE, WISCONSIN 53227
Phone: 414.874.2244 FAX: 414.874.2201
E-MAIL: info@aseinc.com
Signed February 22, 2006
Job No. 030451

PRAIRIE PATHWAYS

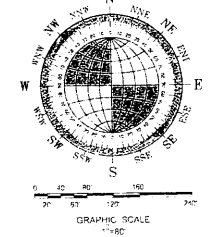
076 34 45553

Being a replat of PRAIRIE CROSSING, being all of Outlot 1 of Certified Survey Map No. 2619, being a part of the Northeast 1/4 and Southwest 1/4 of the Northwest 1/4, lands in the Northwest 1/4 of the Northwest 1/4 and part of the Northeast 1/4 and Northwest 1/4 of the Northwest 1/4 of Section 33, Township 4 North, Range 22 East, Village of Calverton, Racine County, Wisconsin exceeding therefrom all lands previously dedicated.



North Arrow
 1/4 Section 33
 Township 4 North
 Range 22 East
 Wisconsin
 1/4 Section 33
 Township 4 North
 Range 22 East
 Wisconsin

Reference to the North of the Wisconsin State Plane Coordinate System, FWS 84, Zone 16 N, 17 S, 18 S, 19 S, 20 S, 21 S, 22 S, 23 S, 24 S, 25 S, 26 S, 27 S, 28 S, 29 S, 30 S, 31 S, 32 S, 33 S, 34 S, 35 S, 36 S, 37 S, 38 S, 39 S, 40 S, 41 S, 42 S, 43 S, 44 S, 45 S, 46 S, 47 S, 48 S, 49 S, 50 S, 51 S, 52 S, 53 S, 54 S, 55 S, 56 S, 57 S, 58 S, 59 S, 60 S, 61 S, 62 S, 63 S, 64 S, 65 S, 66 S, 67 S, 68 S, 69 S, 70 S, 71 S, 72 S, 73 S, 74 S, 75 S, 76 S, 77 S, 78 S, 79 S, 80 S, 81 S, 82 S, 83 S, 84 S, 85 S, 86 S, 87 S, 88 S, 89 S, 90 S, 91 S, 92 S, 93 S, 94 S, 95 S, 96 S, 97 S, 98 S, 99 S, 100 S.



NOTES:

- - Denotes 2 3/8" O.D. x 30' Iron Pipe set 1 Rk lbs. per lin. ft. 1 1/4" O.D. x 20' Iron Pipe set 1.68 lbs. per lin. ft. All other 1" and three eighths.
- A" - Distances computed and measured to the nearest 0.01"
- All angles computed to the nearest 00'00" 5" and measured to the nearest 0.0001"
- 50' ± - Denotes lot areas to the nearest square foot.
- Drainage & utility easements should also include easements from WF Engines, cable, telephone, etc.

LOT SETBACKS
 FRONT - 25'
 REAR - 20'
 SIDE - 10' TOTAL BOTH SIDES (WITH A MAX.)



William R. Henrichs
 Feb. 22, 2006

EASEMENT LEGEND

XX D.P.	- Drainage Easement
XX D.E.C.	- Drainage Easement Contained in ()
XX U.L.S.	- Utility Easement
XX U.L.E.C.	- Utility Easement Contained in ()
XX S.T.	- Storm Sewer Easement
XX S.T.E.C.	- Storm Sewer Easement Contained in ()
XX S.T.D.L.P.	- Storm Sewer Drainage & Utility Easement Contained in ()
XX U.L.	- Utility Easement
XX U.L.E.C.	- Utility Easement Contained in ()
XX S.T.E.	- Storm Sewer Easement
XX S.T.E.C.	- Storm Sewer Easement Contained in ()

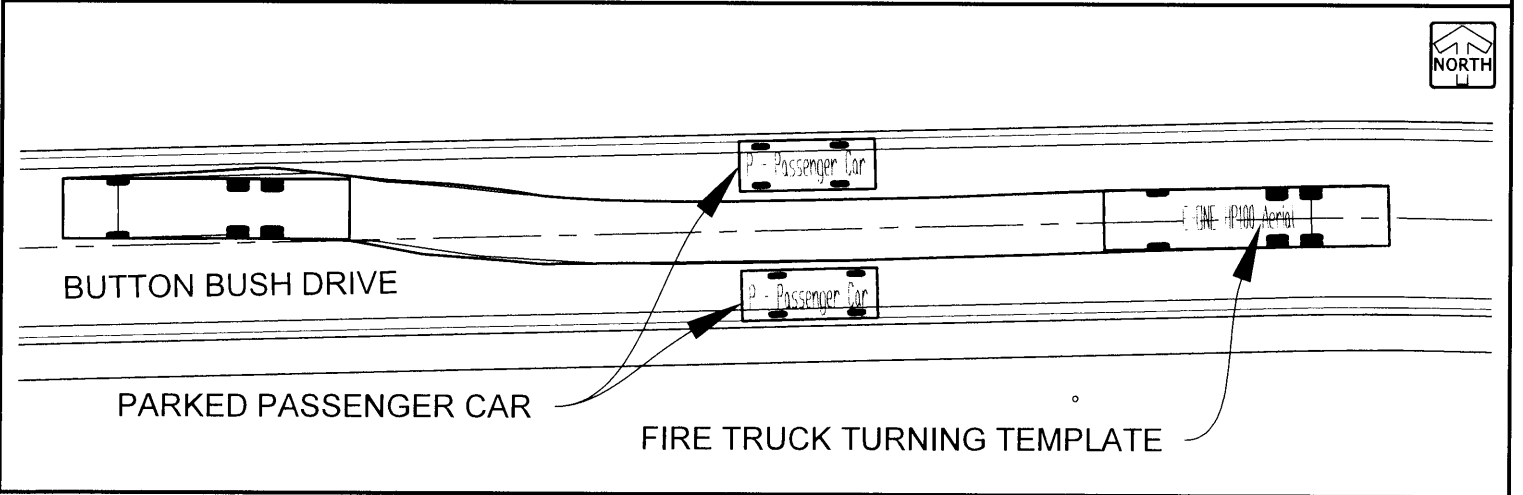
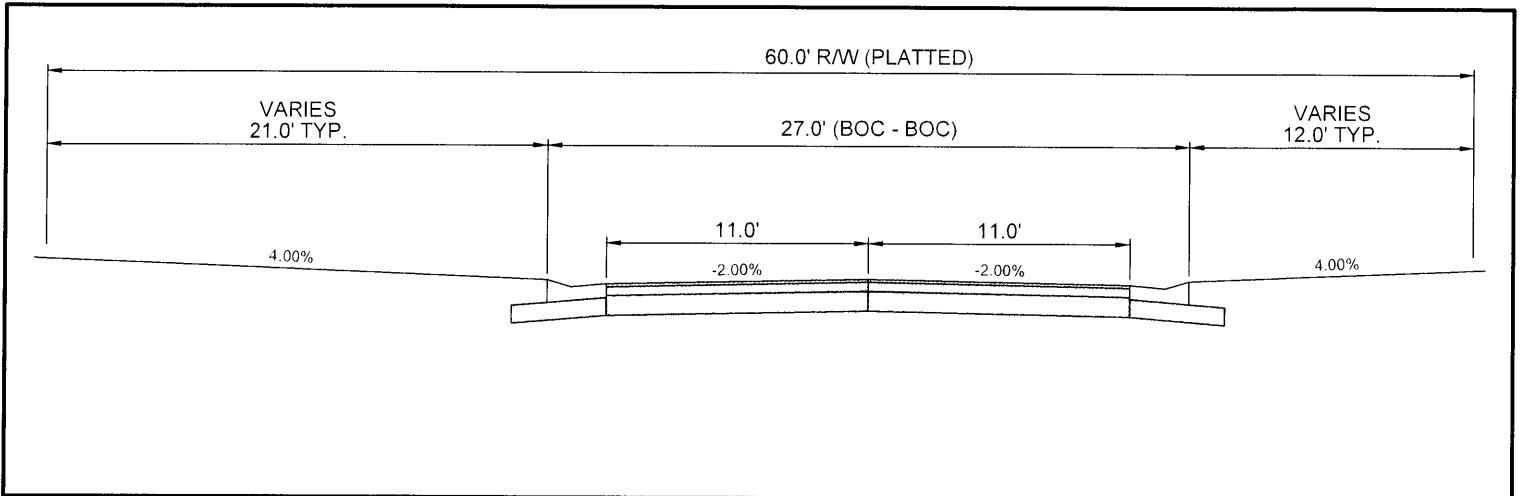
There are no mortgages in this plan with respect to the 1/4 Section 33, Township 4 North, Range 22 East, Wisconsin. New Notes as provided in 1/4 Section 33, Wisconsin Statutes, Chapter 893.
 Certified March 10, 2006
William R. Henrichs
 Department of Administration

Map prepared by William R. Henrichs, R.L.C.
 Project Engineer - Morgan D. Thibault, P.E.
 LAND SURVEYING AND ENGINEERING, INC.
 2215 S. 10th Street, Racine, WI 53405
 (608) 785-1100
 Registered Professional Engineer
 License No. 22418
 Registered February 22, 2006
 License No. 035651

PRAIRIE PATHWAYS

Range 24 East of PRAIRIE CROSSING being a part of Parcel 1 of Certified Survey Map No. 2009, being a part of the Northeast 1/4 and Southwest 1/4 of the Northwest 1/4, lands in the Northwest 1/4 of the Northwest 1/4 and part of the Northeast 1/4 and Northwest 1/4 of the Northwest 1/4 in all of Section 13, Township 4 North, Range 24 East, Village of Galena, Racine County, Wisconsin, excluding therefrom all lands previously dedicated.

CURVE	RADIUS	ARC LENGTH	CHORD	CENTRAL ANGLE	DEFLECTION ANGLE	COURSE BEARING
1	510.00	102.11	181.38	21.25 32	158.75 68	N 78°22'11.5" E
2	500.00	102.94	182.83	21.54 31	158.45 69	N 78°22'11.5" E
3	200.00	74.82	141.37	16.10 33	163.89 74	N 78°22'11.5" E
4	150.00	55.88	103.59	12.00 34	166.99 85	N 78°22'11.5" E
5	100.00	37.92	69.16	8.00 35	170.00 96	N 78°22'11.5" E
6	50.00	18.96	34.58	4.00 36	173.00 107	N 78°22'11.5" E
7	25.00	9.48	17.29	2.00 37	176.00 118	N 78°22'11.5" E
8	12.50	4.74	8.64	1.00 38	179.00 129	N 78°22'11.5" E
9	6.25	2.37	4.32	0.50 39	182.00 140	N 78°22'11.5" E
10	3.12	1.18	2.16	0.25 40	185.00 151	N 78°22'11.5" E
11	1.56	0.59	1.08	0.12 41	188.00 162	N 78°22'11.5" E
12	0.78	0.29	0.54	0.06 42	191.00 173	N 78°22'11.5" E
13	0.39	0.15	0.27	0.03 43	194.00 184	N 78°22'11.5" E
14	0.19	0.07	0.14	0.01 44	197.00 195	N 78°22'11.5" E
15	0.09	0.04	0.07	0.00 45	200.00 206	N 78°22'11.5" E
16	0.05	0.02	0.04	0.00 46	203.00 217	N 78°22'11.5" E
17	0.02	0.01	0.02	0.00 47	206.00 228	N 78°22'11.5" E
18	0.01	0.00	0.01	0.00 48	209.00 239	N 78°22'11.5" E
19	0.00	0.00	0.00	0.00 49	212.00 250	N 78°22'11.5" E
20	0.00	0.00	0.00	0.00 50	215.00 261	N 78°22'11.5" E
21	0.00	0.00	0.00	0.00 51	218.00 272	N 78°22'11.5" E
22	0.00	0.00	0.00	0.00 52	221.00 283	N 78°22'11.5" E
23	0.00	0.00	0.00	0.00 53	224.00 294	N 78°22'11.5" E
24	0.00	0.00	0.00	0.00 54	227.00 305	N 78°22'11.5" E
25	0.00	0.00	0.00	0.00 55	230.00 316	N 78°22'11.5" E
26	0.00	0.00	0.00	0.00 56	233.00 327	N 78°22'11.5" E
27	0.00	0.00	0.00	0.00 57	236.00 338	N 78°22'11.5" E
28	0.00	0.00	0.00	0.00 58	239.00 349	N 78°22'11.5" E
29	0.00	0.00	0.00	0.00 59	242.00 360	N 78°22'11.5" E
30	0.00	0.00	0.00	0.00 60	245.00 371	N 78°22'11.5" E
31	0.00	0.00	0.00	0.00 61	248.00 382	N 78°22'11.5" E
32	0.00	0.00	0.00	0.00 62	251.00 393	N 78°22'11.5" E
33	0.00	0.00	0.00	0.00 63	254.00 404	N 78°22'11.5" E
34	0.00	0.00	0.00	0.00 64	257.00 415	N 78°22'11.5" E
35	0.00	0.00	0.00	0.00 65	260.00 426	N 78°22'11.5" E
36	0.00	0.00	0.00	0.00 66	263.00 437	N 78°22'11.5" E
37	0.00	0.00	0.00	0.00 67	266.00 448	N 78°22'11.5" E
38	0.00	0.00	0.00	0.00 68	269.00 459	N 78°22'11.5" E
39	0.00	0.00	0.00	0.00 69	272.00 470	N 78°22'11.5" E
40	0.00	0.00	0.00	0.00 70	275.00 481	N 78°22'11.5" E
41	0.00	0.00	0.00	0.00 71	278.00 492	N 78°22'11.5" E
42	0.00	0.00	0.00	0.00 72	281.00 503	N 78°22'11.5" E
43	0.00	0.00	0.00	0.00 73	284.00 514	N 78°22'11.5" E
44	0.00	0.00	0.00	0.00 74	287.00 525	N 78°22'11.5" E
45	0.00	0.00	0.00	0.00 75	290.00 536	N 78°22'11.5" E
46	0.00	0.00	0.00	0.00 76	293.00 547	N 78°22'11.5" E
47	0.00	0.00	0.00	0.00 77	296.00 558	N 78°22'11.5" E
48	0.00	0.00	0.00	0.00 78	299.00 569	N 78°22'11.5" E
49	0.00	0.00	0.00	0.00 79	302.00 580	N 78°22'11.5" E
50	0.00	0.00	0.00	0.00 80	305.00 591	N 78°22'11.5" E
51	0.00	0.00	0.00	0.00 81	308.00 602	N 78°22'11.5" E
52	0.00	0.00	0.00	0.00 82	311.00 613	N 78°22'11.5" E
53	0.00	0.00	0.00	0.00 83	314.00 624	N 78°22'11.5" E
54	0.00	0.00	0.00	0.00 84	317.00 635	N 78°22'11.5" E
55	0.00	0.00	0.00	0.00 85	320.00 646	N 78°22'11.5" E
56	0.00	0.00	0.00	0.00 86	323.00 657	N 78°22'11.5" E
57	0.00	0.00	0.00	0.00 87	326.00 668	N 78°22'11.5" E
58	0.00	0.00	0.00	0.00 88	329.00 679	N 78°22'11.5" E
59	0.00	0.00	0.00	0.00 89	332.00 690	N 78°22'11.5" E
60	0.00	0.00	0.00	0.00 90	335.00 701	N 78°22'11.5" E
61	0.00	0.00	0.00	0.00 91	338.00 712	N 78°22'11.5" E
62	0.00	0.00	0.00	0.00 92	341.00 723	N 78°22'11.5" E
63	0.00	0.00	0.00	0.00 93	344.00 734	N 78°22'11.5" E
64	0.00	0.00	0.00	0.00 94	347.00 745	N 78°22'11.5" E
65	0.00	0.00	0.00	0.00 95	350.00 756	N 78°22'11.5" E
66	0.00	0.00	0.00	0.00 96	353.00 767	N 78°22'11.5" E
67	0.00	0.00	0.00	0.00 97	356.00 778	N 78°22'11.5" E
68	0.00	0.00	0.00	0.00 98	359.00 789	N 78°22'11.5" E
69	0.00	0.00	0.00	0.00 99	362.00 800	N 78°22'11.5" E
70	0.00	0.00	0.00	0.00 100	365.00 811	N 78°22'11.5" E
71	0.00	0.00	0.00	0.00 101	368.00 822	N 78°22'11.5" E
72	0.00	0.00	0.00	0.00 102	371.00 833	N 78°22'11.5" E
73	0.00	0.00	0.00	0.00 103	374.00 844	N 78°22'11.5" E
74	0.00	0.00	0.00	0.00 104	377.00 855	N 78°22'11.5" E
75	0.00	0.00	0.00	0.00 105	380.00 866	N 78°22'11.5" E
76	0.00	0.00	0.00	0.00 106	383.00 877	N 78°22'11.5" E
77	0.00	0.00	0.00	0.00 107	386.00 888	N 78°22'11.5" E
78	0.00	0.00	0.00	0.00 108	389.00 899	N 78°22'11.5" E
79	0.00	0.00	0.00	0.00 109	392.00 910	N 78°22'11.5" E
80	0.00	0.00	0.00	0.00 110	395.00 921	N 78°22'11.5" E
81	0.00	0.00	0.00	0.00 111	398.00 932	N 78°22'11.5" E
82	0.00	0.00	0.00	0.00 112	401.00 943	N 78°22'11.5" E
83	0.00	0.00	0.00	0.00 113	404.00 954	N 78°22'11.5" E
84	0.00	0.00	0.00	0.00 114	407.00 965	N 78°22'11.5" E
85	0.00	0.00	0.00	0.00 115	410.00 976	N 78°22'11.5" E
86	0.00	0.00	0.00	0.00 116	413.00 987	N 78°22'11.5" E
87	0.00	0.00	0.00	0.00 117	416.00 998	N 78°22'11.5" E
88	0.00	0.00	0.00	0.00 118	419.00 1009	N 78°22'11.5" E
89	0.00	0.00	0.00	0.00 119	422.00 1020	N 78°22'11.5" E
90	0.00	0.00	0.00	0.00 120	425.00 1031	N 78°22'11.5" E
91	0.00	0.00	0.00	0.00 121	428.00 1042	N 78°22'11.5" E
92	0.00	0.00	0.00	0.00 122	431.00 1053	N 78°22'11.5" E
93	0.00	0.00	0.00	0.00 123	434.00 1064	N 78°22'11.5" E
94	0.00	0.00	0.00	0.00 124	437.00 1075	N 78°22'11.5" E
95	0.00	0.00	0.00	0.00 125	440.00 1086	N 78°22'11.5" E
96	0.00	0.00	0.00	0.00 126	443.00 1097	N 78°22'11.5" E
97	0.00	0.00	0.00	0.00 127	446.00 1108	N 78°22'11.5" E
98	0.00	0.00	0.00	0.00 128	449.00 1119	N 78°22'11.5" E
99	0.00	0.00	0.00	0.00 129	452.00 1130	N 78°22'11.5" E
100	0.00	0.00	0.00	0.00 130	455.00 1141	N 78°22'11.5" E
101	0.00	0.00	0.00	0.00 131	458.00 1152	N 78°22'11.5" E
102	0.00	0.00	0.00	0.00 132	461.00 1163	N 78°22'11.5" E
103	0.00	0.00	0.00	0.00 133	464.00 1174	N 78°22'11.5" E
104	0.00	0.00	0.00	0.00 134	467.00 1185	N 78°22'11.5" E
105	0.00	0.00	0.00	0.00 135	470.00 1196	N 78°22'11.5" E
106	0.00	0.00	0.00	0.00 136	473.00 1207	N 78°22'11.5" E
107	0.00	0.00	0.00	0.00 137	476.00 1218	N 78°22'11.5" E
108	0.00	0.00	0.00	0.00 138	479.00 1229	N 78°22'11.5" E
109	0.00	0.00	0.00	0.00 139	482.00 1240	N 78°22'11.5" E
110	0.00	0.00	0.00	0.00 140	485.00 1251	N 78°22'11.5" E
111	0.00	0.00	0.00	0.00 141	488.00 1262	N 78°22'11.5" E
112	0.00	0.00	0.00	0.00 142	491.00 1273	N 78°22'11.5" E
113	0.00	0.00	0.00	0.00 143	494.00 1284	N 78°22'11.5" E
114	0.00	0.00	0.00	0.00 144	497.00 1295	N 78°22'11.5" E
115	0.00	0.00	0.00	0.00 145	500.00 1306	N 78°22'11.5" E
116	0.00	0.00	0.00	0.00 146	503.00 1317	N 78°22'11.5" E
117	0.00	0.00	0.00	0.00 147	506.00 1328	N 78°22'11.5" E
118	0.00	0.00	0.00	0.00 148	509.00 1339	N 78°22'11.5" E
119	0.00	0.00	0.00	0.00 149	512.00 1350	N 78°22'11.5" E
120	0.00	0.00	0.00	0.00 150	515.00 1361	N 78°22'11.5" E
121	0.00	0.00	0.00	0.00 151	518.00 1372	N 78°22'11.5" E
122	0.00	0.00	0.00	0.00 152	521.00 1383	N 78°22'11.5" E
123	0.00	0.00	0.00	0.00 153	524.00 1394	N 78°22'11.5" E
124	0.00	0.00	0.00	0.00 154	527.00 1405	N 78°22'11.5" E
125	0.00	0.00	0.00	0.00 155	530.00 1416	N 78°22'11.5" E
126	0.00	0.00	0.00	0.00 156	533.00 1427	N 78°22'11.5" E
127	0.00	0.00	0.00	0.00 157	536.00 1438	N 78°22'11.5" E
128	0.00	0.00	0.00	0.00 158	539.00 1449	N 78°22'11.5" E
129	0.00	0.00	0.00	0.00 159	542.00 1460	N 78°22'11.5" E
130	0.00	0.00	0.00	0.00 160	545.00 1471	N 78°22'11.5" E
131	0.00	0.00	0.00	0.00 161	548.00 1482	N 78°22'11.5" E
132	0.00	0.00	0.00	0.00 162	551.00 1493	N 78°22'11.5" E
133	0.00	0.00	0.00	0.00 163	554.00 1504	N 78°22'11.5" E
134	0.00	0.00	0.00	0.00 164	557.00 1515	N 78°22'11.5" E
135	0.00	0.00	0.00	0.00 165	560.00 1526	N 78°22'11.5" E
136	0.00	0.00	0.00	0.00 166	563.00 1537	N 78°22'11.5" E
137	0.00	0.00	0.00	0.00 167	566.00 1548	N 78°22'11.5" E
138	0.00	0.00	0.00	0.00 168	569.00 1559	N 78°22'11.5" E
139	0.00	0.00	0.00	0.00 169	572.00 1570	N 78°22'11.5" E
140	0.00	0.00	0.00	0.00 170	575.00 1581	N 78°22'11.5" E
141	0.00	0.00	0.00	0.00 171	578.00 1592	N 78°22'11.5" E
142	0.00	0.00	0.00	0.00 172	581.00 1603	N 78°22'11.5" E
143	0.00	0.00	0.00	0.00 173	584.00 1614	N 78°22'11.5" E
144	0.00					



TYPICAL SECTION - BUTTON BUSH DRIVE

PINNACLE ENGINEERING GROUP

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