Resolution #28-18

RESOLUTION OF THE TOWN BOARD OF THE TOWN OF GREENVILLE APPROVING PUBLIC IMPROVEMENT PLANS FOR SAVANNAH HEIGHTS PHASE II LOCATED AT PARCEL# 110083600 and 110083804

WHEREAS, a public improvement plans have been submitted for Savannah Heights Phase II located at Parcel# **110083600 and 110083804** as shown on Exhibit A; and

WHEREAS, the Planning Commission has recommended approval to the Town Board; and

WHEREAS, the approval shall be conditioned on the following

1. No construction permits shall be issued until all plans, as shown on Exhibit A, meet local, county, state and federal ordinance and statutory requirements; and

NOW, THEREFORE, BE IT RESOLVED that the Town Board of the Town of Greenville hereby approves the public improvement plans for Savannah Heights Phase II.

This resolution was adopted by the Town of Greenville Town Board on the 23rd day of July, 2018:

TOWN BOARD OF THE
TOWN OF GREENVILLE, WISCONSIN

By: Jack C Anderson
Jack Anderson, Town Chair

ATTEST:
Wendy Helgeson, Clerk

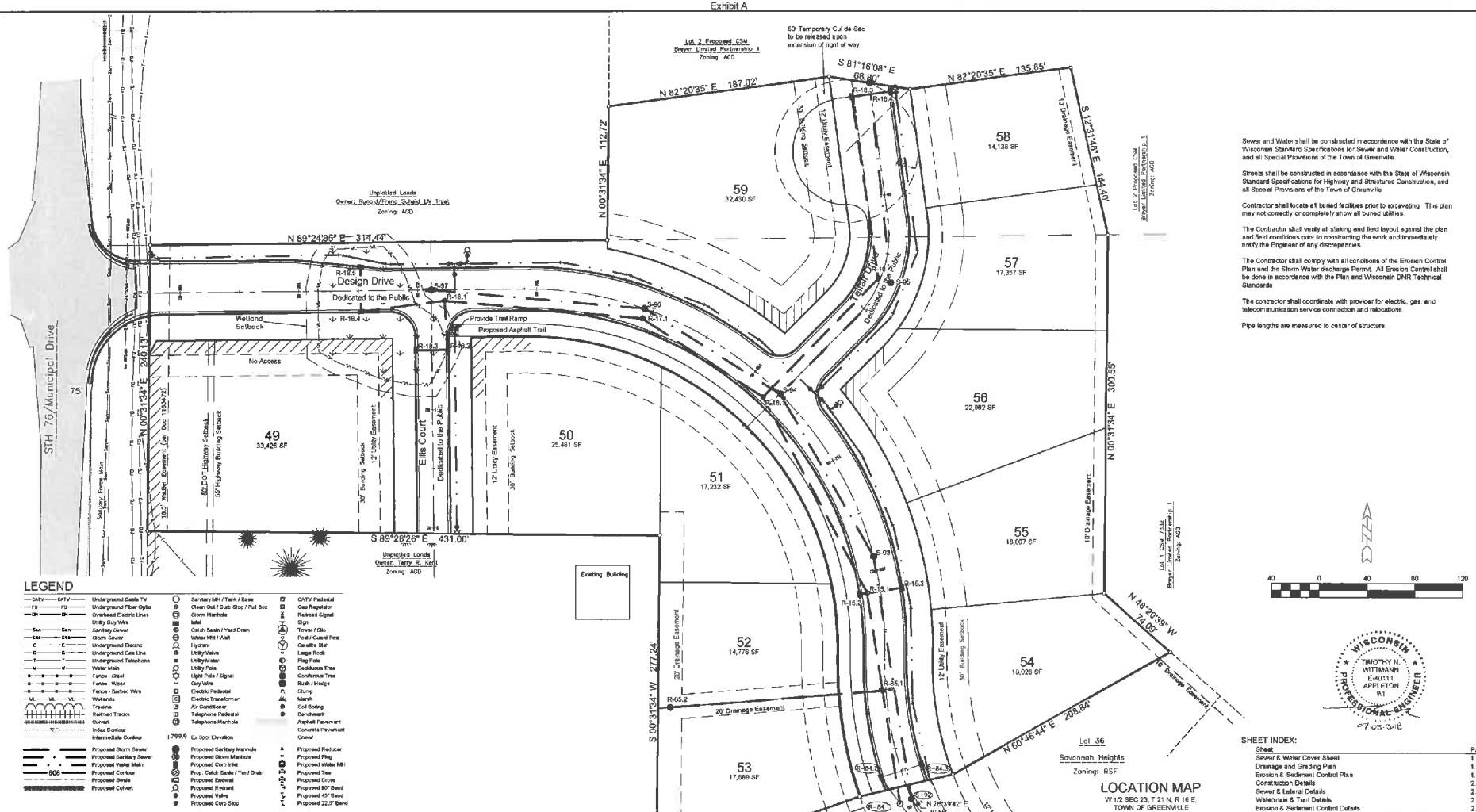
Motion to Approve Resolution No. #28-18 made by: Strobel / Peters

Votes:

Title	Name	Aye	Nay	Other
Supervisor	Culbertson	✓		
Supervisor	Peters	✓		
Supervisor	Strobel	✓		
Supervisor	Woods	✓		
Chairperson	Anderson	✓		

Posted:

Exhibit A



Sewer and Water shall be constructed in accordance with the State of Wisconsin Standard Specifications for Sewer and Water Construction, and all Special Provisions of the Town of Greenville.

Streets shall be constructed in accordance with the State of Wisconsin Standard Specifications for Highway and Structures Construction, and all Special Provisions of the Town of Greenville.

Contractor shall locate all buried facilities prior to excavating. This plan may not correctly or completely show all buried utilities.

The Contractor shall verify all staking and field layout against the plan and field conditions prior to constructing the work and immediately notify the Engineer of any discrepancies.

The Contractor shall comply with all conditions of the Erosion Control Plan and the Storm Water discharge Permit. All Erosion Control shall be done in accordance with the Plan and Wisconsin DNR Technical Standards

The contractor shall coordinate with provider for electric, gas, and telecommunication service connection and relocations.

Pipe lengths are measured to center of structure.

LEGEND

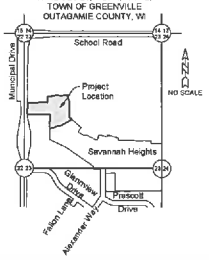
Underground Cable TV	Sanitary MH / Tank / Base	CATV Pedestal
Underground Fiber Optic	Clean Out / Curb Stop / Pull Box	Gas Regulator
Overhead Electric Lines	Storm Manhole	Railroad Signal
Utility Guy Wire	Inlet	Sign
Sanitary Sewer	Catch Basin / Yard Drain	Tower / Silo
Storm Sewer	Water MH / Well	Post / Guard Post
Underground Electric	Hydrant	Satellite Dish
Underground Gas Line	Utility Valve	Large Rock
Underground Telephone	Utility Meter	Flag Pole
Water Main	Utility Pole	Deciduous Tree
Fence - Steel	Light Pole / Signal	Coniferous Tree
Fence - Wood	Guy Wire	Bush / Hedge
Fence - Barbed Wire	Electric Pedestal	Stump
Wetlands	Electric Transformer	Marsh
Treeline	Air Conditioner	Soil Boring
Railroad Tracks	Telephone Pedestal	Benchmark
Culvert	Telephone Manhole	Asphalt Pavement
Index Contour		Concrete Pavement
Intermediate Contour	799.9 Ex Spot Elevation	Gravel
Proposed Storm Sewer	Proposed Sanitary Manhole	Proposed Reducer
Proposed Sanitary Sewer	Proposed Storm Manhole	Proposed Plug
Proposed Water Main	Proposed Curb Inlet	Proposed Water MH
908 Proposed Contour	Prop. Catch Basin / Yard Drain	Proposed Tee
Proposed Swale	Proposed Endwall	Proposed Cross
Proposed Culvert	Proposed Hydrant	Proposed 90° Bend
	Proposed Valve	Proposed 45° Bend
	Proposed Curb Stop	Proposed 22.5° Bend

Savannah Heights 2

Town of Greenville, Outagamie County, WI

For: Dercks DeWitt, LLC

LOCATION MAP
W 1/2 SEC 23, T 21 N, R 16 E.
TOWN OF GREENVILLE
OUTAGAMIE COUNTY, WI



SHEET INDEX:

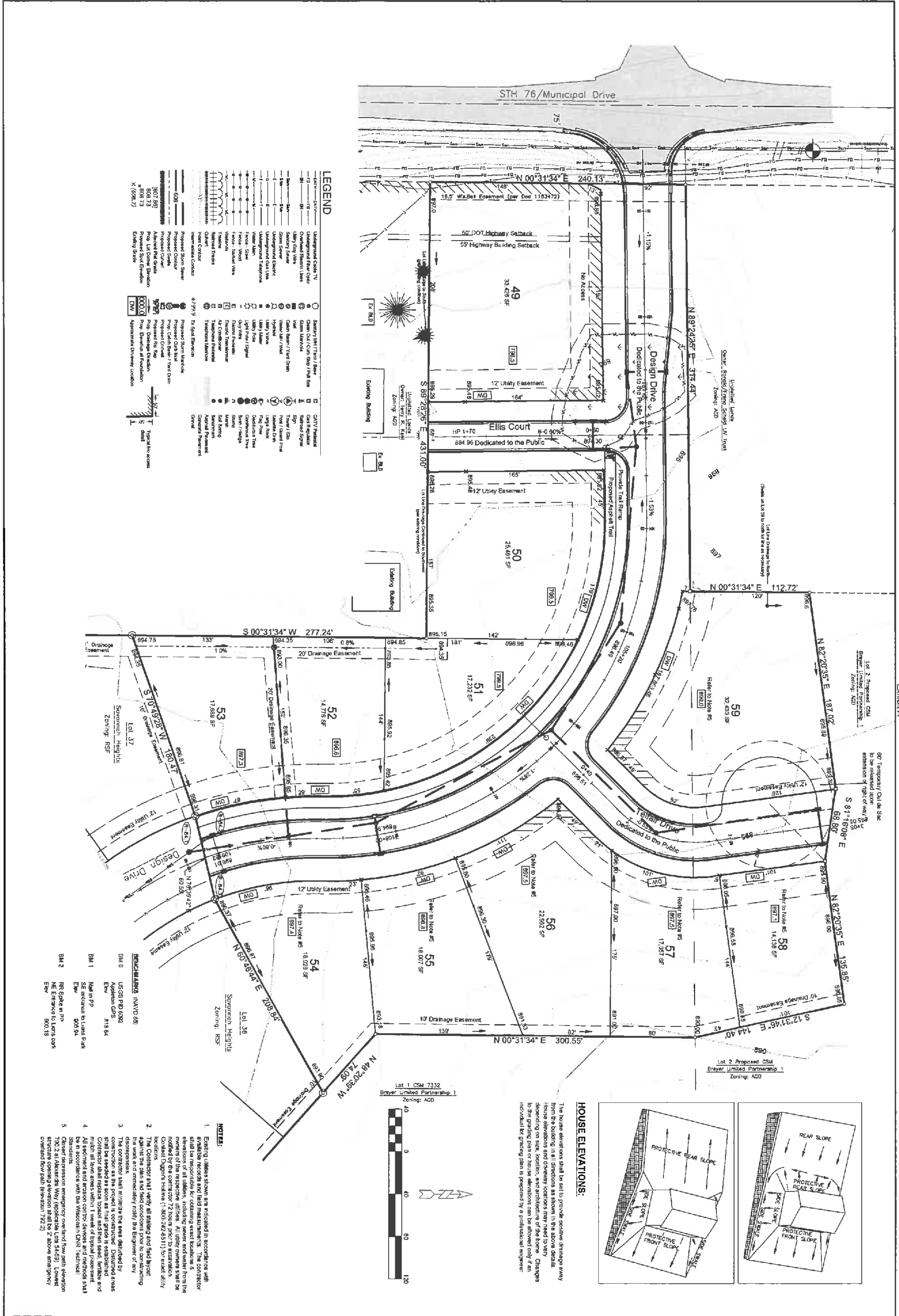
SEWER & WATER COVER SHEET

DAVEL ENGINEERING & ENVIRONMENTAL, INC.
CIVIL ENGINEERING CONSULTANTS
1611 Racine Street Menasha, WI 54952
Ph 920-991-1886 Fax 920-830-9695
www.davel.pro

WISCONSIN TIMOTHY N. WITTMANN E-40111 APPLETON WI PROFESSIONAL ENGINEER 7-03-2018

Project Number: 4541
July 3, 2018

7/3/2018 10:32 AM J:\Projects\4541\Survey\Civil 3D\4541engr Phase 2 Plan Production.dwg Plotted by: katie

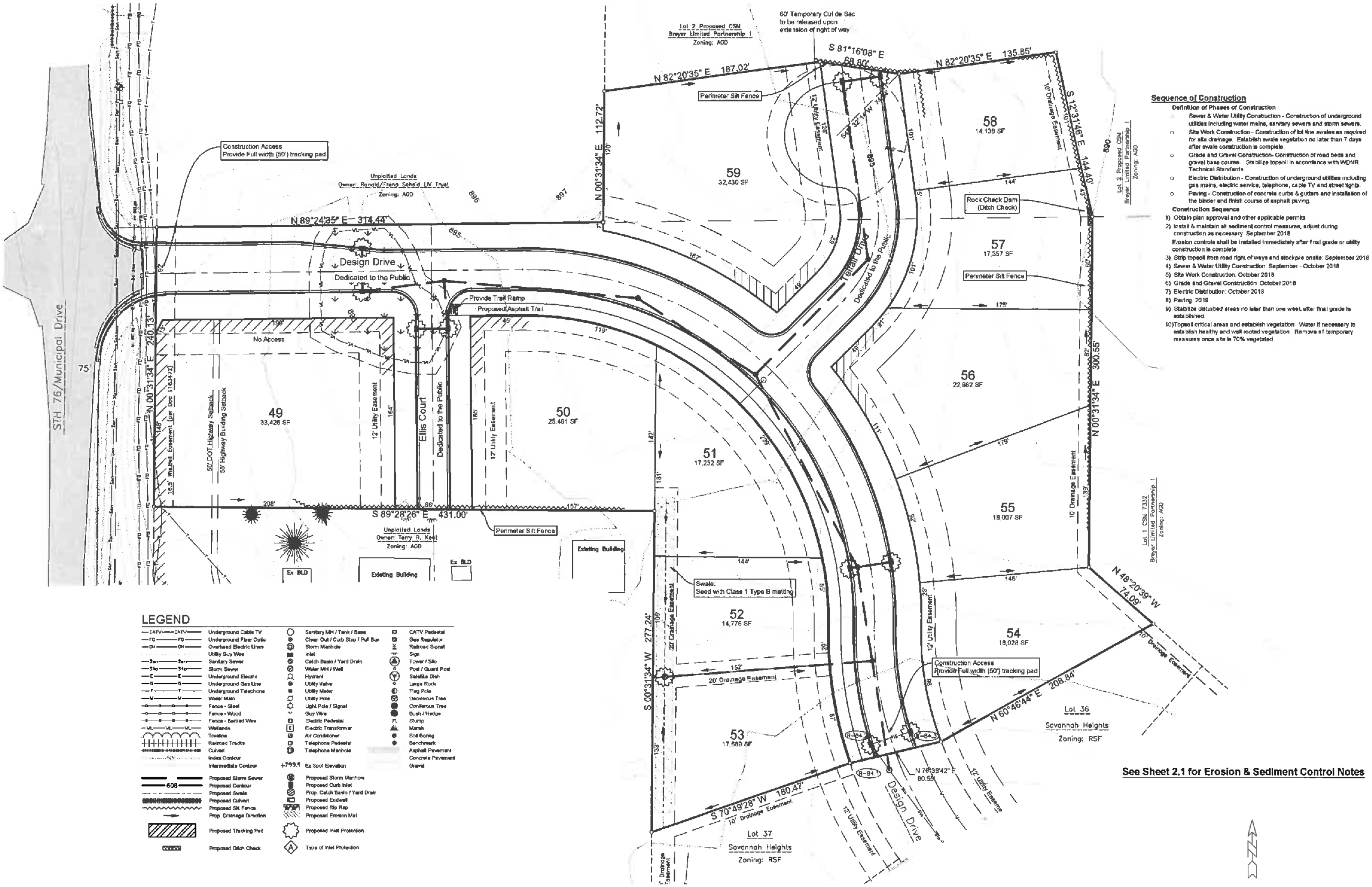

STH 76/Municipal Drive
LEGEND
Design Drive
Dedicated to the Public
Ellis Court
884.96 Dedicated to the Public
Tellair Drive
Proposed Asphalt Trail
Existing Building
12' Utility Easement
10' Drainage Easement
20' Drainage Easement
50' DOT Highway Setback
55' Highway Building Setback
No Access
49
33,428 SF
50
25,481 SF
51
17,232 SF
52
14,776 SF
53
17,658 SF
54
16,028 SF
55
18,007 SF
56
22,562 SF
57
17,357 SF
58
14,138 SF
59
32,433 SF
N 00°31'34" E 240.13'
S 89°28'26" E 431.00'
N 89°24'35" E 314.44'
N 00°31'34" E 112.72'
S 00°31'34" W 277.24'
N 82°20'35" E 187.02'
S 81°16'08" E 68.80'
N 82°20'35" E 135.85'
S 12°31'46" E 144.40'
N 00°31'34" E 300.55'
N 48°20'39" W 74.09'
N 60°46'04" E 208.84'
S 10°49'28" W 180.47'
Lot 37
Savannah Heights
Zoning: RSF
Lot 36
Savannah Heights
Zoning: RSF
Lot 2 Proposed CSM
Breyer Limited Partnership 1
Zoning: AGD
Lot 1 CSM 7332
Breyer Limited Partnership 1
Zoning: AGD
Exhibit A
HOUSE ELEVATIONS:
PROTECTIVE REAR SLOPE
PROTECTIVE FRONT SLOPE
REAR SLOPE
SIDE SLOPE
SIDE SWALE
NOTES:
BENCHMARKS (NAVD 88)

7/3/2018 10:33 AM J:\Projects\4541der\dwg\Civil 3D\4541engr Phase 2 Plan Production.dwg Printed by: katie

Savannah Heights 2 Town of Greenville, Outagamie County, WI For: Dercks DeWitt, LLC	DRAINAGE & GRADING PLAN	DAVEL ENGINEERING & ENVIRONMENTAL, INC. CIVIL ENGINEERING CONSULTANTS 1811 Racine Street Menasha, WI 54952 Ph: 920-991-1866 Fax: 920-830-6595 www.davel.pro

Date: 07/3/2018
Author: TJT
Last Saved by: katie
Page: 1.2

Exhibit A



Sequence of Construction

Definition of Phases of Construction

- Sewer & Water Utility Construction - Construction of underground utilities including water mains, sanitary sewers and storm sewers.
- Site Work Construction - Construction of lot line swales as required for site drainage. Establish swale vegetation no later than 7 days after swale construction is complete.
- Grade and Gravel Construction- Construction of road beds and gravel base course. Stabilize topsoil in accordance with WDNR Technical Standards.
- Electric Distribution - Construction of underground utilities including gas mains, electric service, telephone, cable TV and street lights.
- Paving - Construction of concrete curbs & gutters and installation of the binder and finish course of asphalt paving.

Construction Sequence

1) Obtain plan approval and other applicable permits
2) Install & maintain all sediment control measures, adjust during construction as necessary September 2018

   Erosion controls shall be installed immediately after final grade or utility construction is complete.
3) Strip topsoil from road right of ways and stockpile onsite: September 2018
4) Sewer & Water Utility Construction September - October 2018
5) Site Work Construction. October 2018
6) Grade and Gravel Construction: October 2018
7) Electric Distribution: October 2018
8) Paving. 2019
9) Stabilize disturbed areas no later than one week after final grade is established.
10) Topsoil critical areas and establish vegetation. Water if necessary to establish healthy and well rooted vegetation. Remove all temporary measures once site is 70% vegetated

See Sheet 2.1 for Erosion & Sediment Control Notes

DAVEL ENGINEERING & ENVIRONMENTAL, INC.
CIVIL ENGINEERING CONSULTANTS
1811 Racine Street Menasha, WI 54952
Ph: 920-991-1866 Fax: 920-830-9595
www.davel.pro

EROSION & SEDIMENT CONTROL PLAN

Savannah Heights 2

Town of Greenville, Outagamie County, WI

For: Dercks DeWitt, LLC

Date: 07/3/2018

Author: TJT

Last Saved by: katie

Page: 1.3

Exhibit A

Property Location
The property is located in part of Northwest ¼ of Section 23, Township 21 North, Range 16 East, Town of Greenville, Outagamie County. The land is owned by Dercks & Dewitt, LLC The owner is proposing the development of a residential subdivision.

Site Description
The site is part cultivated agricultural lands. Savannah Heights 2 is part of the Towering Pines West Stormwater Management Plan dated September 2, 2015 to be served with the existing Towering Pines West Stormwater Pond The subdivision will extend from Design Drive as part of Savannah Heights subdivision to State Highway 76.

Soils
Hortonville soil mapping have slopes ranging from 2-12%. These units are situated on end moraines, ground moraines, and recessional moraines The soil parent material is silty loess over loamy till. The soils are well drained, with a water table of more than 80 inches. The Hydrological Soil Group (HSG): C

Planned Sediment and Erosion Control Practices

All erosion control practices shall be in place prior to disturbing the site. All sediment and erosion control devices and methods shall be in accordance with DNR Technical Standards and the WisDOT Erosion Control product acceptability lists (PAL). It is the responsibility of the Contractor to minimize the area disturbed and the duration of the disturbance. Erosion & sediment control measures shall be maintained on a continuing basis until the site is permanently stabilized. All applicable controls must be in place at the end of each work day with all off-site sediments being cleaned daily or as necessary as no sediment flushing is allowed.

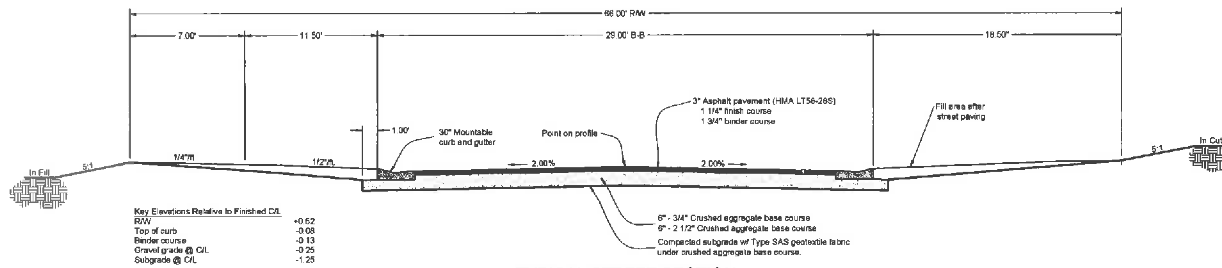
1) Diverting Flow
   a) Permanent Diversion - Intended to divert runoff around disturbed areas to a location where the water can be discharged without adversely impacting the receiving area or channel. Permanent diversions will be used to route runoff to the storm sewers and existing storm water pond.
   b) Temporary Diversion - Intended to divert runoff around disturbed areas to a location where the water can be discharged without adversely impacting the receiving area or channel Unlike a permanent diversion, the temporary diversion will be removed upon the completion of the project. Temporary diversions will be used upslope of any soil piles to reduce the amount of sediment transported. All diversions shall be installed and maintained in accordance with DNR Technical Standard 1066.
2) Overland Flow
   a) Silt Fence - Intended to provide a temporary barrier to the transportation of sediment offsite Silt fence also reduces the velocity of sheet flow, thereby reducing the erosion potential of flowing water Silt fencing is not to be used in areas of channelized flow and sediment deposits shall be removed when a 6 inch depth is reached. The silt fence shall be repaired or replaced as necessary to maintain a barrier All Silt Fence shall be installed and maintained in accordance with DNR Technical Standard 1056 It will be placed at the following locations
   i) along the site boundary where runoff will leave the site.
   ii) and at the toe of soil piles if the pile will remain in place for more than seven (7) days.
   b) Sediment Bale Barrier - Intended to intercept and detain small amounts of sediment from construction operations to prevent sediment from leaving the site. Sediment Bale Barriers are not to be used in areas of channelized flow. All Sediment Bale Barriers shall be installed and maintained in accordance with DNR Technical Standard 1055 Sediment Bale Barriers may be used in place of silt fence around soil stockpiles.
   c) Mulching and Erosion Mat - Intended to reduce the amount of erosion caused by raindrop impact, high overland and concentrated flow velocities and assist the establishment of both temporary and permanent vegetation. All Erosion Mat shall be installed and maintained in accordance with DNR Technical Standards 1052 and 1053 and all Mulching with DNR Technical Standard 1058. In addition to mulching, Erosion Mat is required per plan and if field conditions warrant.
   d) Seeding - Intended to provide a reduction of overland flow velocities and stabilize disturbed areas. Seeding will be used on all disturbed areas within seven days of the completion of the activity that will disturb the area. All seeding shall be in accordance with DNR Technical Standard 1059. Seed mixture 40 (per WisDOT Specifications, Section 630) shall be applied at 5 pounds per 1000 square feet for permanent seeding prior to September 15th. If required, temporary seeding shall consist of Oats, Rye, Winter Wheat, and/or Annual Ryegrass applied at rates and during the season specified by the Technical Standard but no later than November 1st. Sod placement may occur at anytime sod is available and the sod and soil are not frozen.
3) Trapping Sediment in Channelized Flow
   a) Sediment Basin - The existing stormwater pond will serve as the final treatment to remove remaining sediment from the construction site.
4) Inlet Protection Barriers - Intended to prevent the sedimentation of storm water conveyance structures All Inlet Protection Barriers shall be installed and maintained in accordance with DNR Technical Standard 1060 As required, inlet protection barriers will be used at all storm sewer inlets as indicated on the plans
5) Stone Tracking Pad - Intended to reduce the amount of sediment transported onto public roads. The Tracking Pad shall be installed and maintained in accordance with DNR Technical Standard 1057. A tracking pad will be constructed at the site entrances as indicated on the plan.
6) Dust Control - Intended to reduce surface to air transport of dust during construction. Dust control shall be implemented with use of methods provided in DNR Technical Standard 1068. These methods include the use of polymers, seeding, and mulch
7) Dewatering BMP - Intended to reduce the amount of sediment conveyed due to dewatering practices. Dewatering practices require compliance with DNR Technical Standard 1061. The use of geotextile bags is required to prevent sedimentation with a stable discharge to the storm water pond The bags shall meet the requirements of Technical Standard 1061 Upon completion of the dewatering operation, all materials must be disposed of properly in accordance with all state and local requirements. In the event dewatering is required for pond construction the following treatment channel is required:
   a) A treatment channel is required The pump shall discharge into a Type 1 Sediment Bag The bag shall discharge to the treatment channel. The treatment channel shall consist of the following:
   i) A flat bottom that is eight-feet wide
   ii) Length not less than fifty-feet. Actual length required to be determined by onsite soil test.
   iii) Lined with a woven separation fabric covered by jute netting
   iv) Floc Logs shall be placed in the channel perpendicular to the direction of flow. Spacing to be determined by onsite testing.
   b) Prior to dewatering, a qualified professional shall be contacted to perform the sediment testing and select the proper Floc Log and determine the necessary length of the treatment channel
   c) Upon completion of the dewatering operation, all materials must be disposed of properly The jute netting can be buried on site The separation fabric must be removed from the site. Disposal of all materials shall be in accordance with all state and local requirements
9) Waste Material - All onsite waste and construction materials shall be handled and disposed of properly. No pavement material, runoff from concrete washout, or other waste material is allowed to enter the storm sewer system or receiving waters

Maintenance Plan

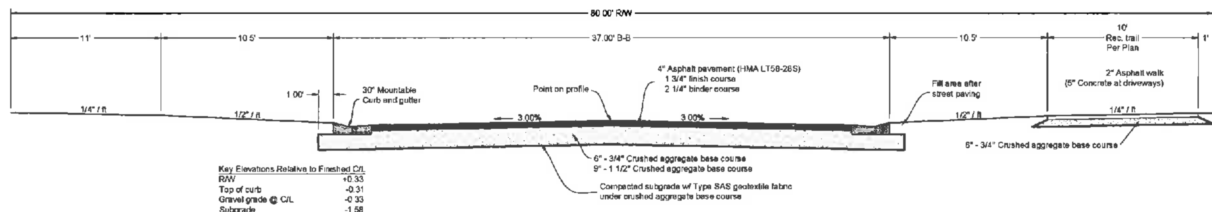
The contractor is responsible for inspection and maintenance of sediment and erosion control measures until the project is completed. The inspections shall be made every seven days or within 24-hours of a rainfall event of 0.50-inch or greater. Any practices that are damaged or not working properly shall be repaired by the end of the day. Accumulated sediment shall be removed when it has reached a height of one-half the height of the structure. In addition, the following measures shall be taken:

1) All seeded areas will be re-seeded and mulched as necessary according to the specifications in the planned practices to maintain a vigorous, dense vegetated cover.
2) Remove silt fence and temporary structures only after final stabilization and vegetative cover is established.
3) Avoid the use of fertilizers and pesticides in or adjacent to channels or ditches
4) Construction and waste materials shall be properly disposed.

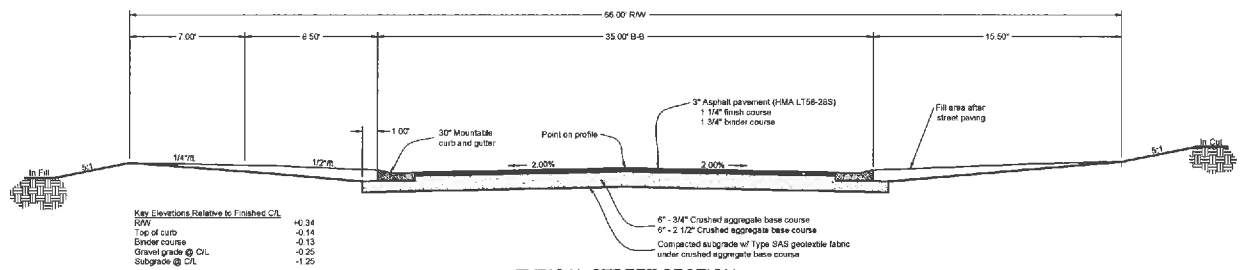
Weekly inspection reports shall be maintained by the contractor. These reports shall document inspections and maintenance performed. The date and time of the inspections, the inspector's name, and the status of construction and any maintenance performed. Refer to the DNR website for a template; http://dnr.wi.gov/runoff/stormwater/constforms.htm#forms. Upon request, the inspection reports shall be made available to the owner, the engineer, the Wisconsin Department of Natural Resources, or the Town of Greenville



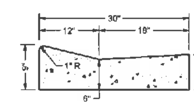
TYPICAL STREET SECTION
Ellis Court



TYPICAL STREET SECTION
Design Drive



TYPICAL STREET SECTION
Telfair Drive



30" MOUNTABLE CURB

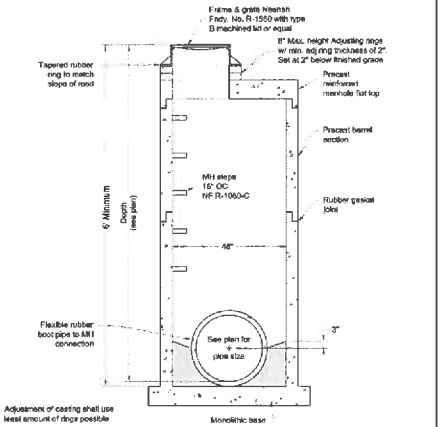
DAVEL ENGINEERING & ENVIRONMENTAL, INC.
CIVIL ENGINEERING CONSULTANTS
1811 Racine Street Menasha, WI 54952
Ph: 920-991-1866 Fax: 920-830-6695
www.davel.pro

CONSTRUCTION DETAILS

Savannah Heights 2
Town of Greenville, Outagamie County, WI
For: Dercks DeWitt, LLC

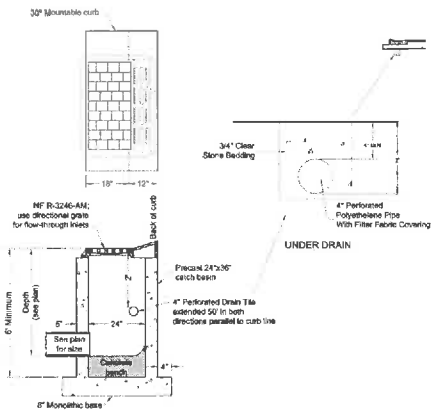
Date: 07/3/2018
Filename: 4541engr Phase 2 Plan Production.dwg
Author: TJT
Last Saved by: katie
Page: 2.1

Exhibit A



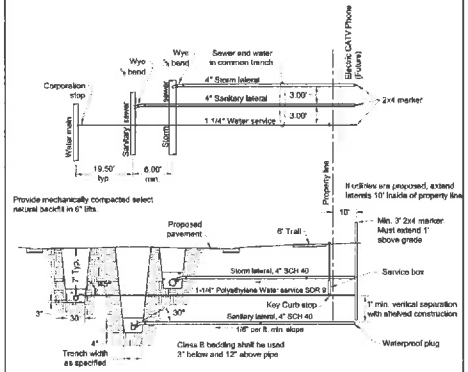
STORM SEWER MANHOLE

Scale	Date	No	Date	Revision	Sheet
N.T.S.	02/12/2018				S.11
Computer File					
S.11 Storm_MH.dwg					



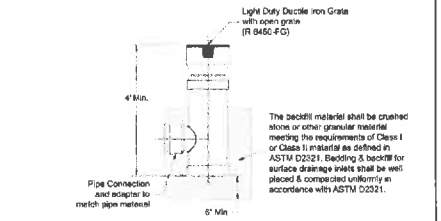
2'X3' INLET DETAIL

Scale	Date	No	Date	Revision	Sheet
N.T.S.	06/20/2018				S.12
Computer File					
S.12 Storm_Curb Inlet.dwg					



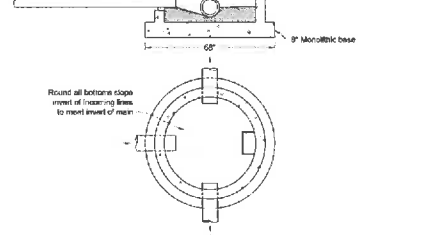
TYPICAL CONNECTION SEWER & WATER

Scale	Date	No	Date	Revision	Sheet
N.T.S.	02/29/2018				S.1
Computer File					
S.1 Lateral.dwg					



NYLOPLAST 24" YARD DRAIN

Scale	Date	No.	Date	Revision	Sheet
N.T.S.	03/4/2016				S.13
Computer File					
S.13 Storm_Yard Drain.dwg					

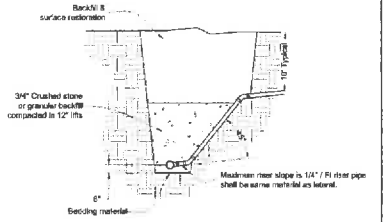


STANDARD PRECAST SANITARY MANHOLE

Scale	Date	No.	Date	Revision	Sheet
N.T.S.	03/2/2018				S.3
Computer File					
S.3 Sanitary_MH.dwg					

SAVANNAH HEIGHTS 2 LATERAL TABLE

		LOT INFORMATION			WATER SERVICES		STORM	SANITARY SERVICES						
LOT #	STREET	FINISHED GARAGE FLOOR ELEV	FOOTING ELEV	CURB BOX ELEV	WATER LATERAL LENGTH	4" STORM LATERAL LENGTH	DISTANCE TO D.S. MH	WYE INVERT	4" SAN LATERAL LENGTH	4" SAN RISER HEIGHT	SAN LAT INV @ Easement	SAN LAT INV @ SB	SANITARY DEPTH @ Easement	SAN DEPTH UNDER
49	Design	898.5	887.33	894.80	53	30	178	883.28	72		886.38	885.74	9.4	1.25
50	Design	899.5	890.33	894.78	14	36	98	882.81	44		884.36	884.72	10.4	5.25
51	Design	899.5	890.33	896.32	52	29	74	878.18	42	4	881.89	882.06	14.5	7.95
52	Design	896.8	887.63	895.42	52	49	132	875.49	54	6	833.24	833.60	12.2	3.70
53	Design	897.3	888.13	895.09	52	49	50	875.16	80	6	833.05	839.36	13.1	4.41
54	Design	897.4	888.23	895.86	19	52	90	875.32	45	6	882.09	883.25	13.0	4.65
55	Design	896.9	887.73	895.41	19	68	190	875.72	53	8	883.45	883.81	12.0	3.59
56	Design	897.5	888.33	896.20	19	77	72	876.17	63	6	834.10	884.46	12.1	3.54
57	Teflex	897.5	888.33	895.10	11	58	32	877.37	45	4	882.93	883.28	13.2	4.71
58	Teflex	897.1	887.93	895.70	14	66	113	877.89	44	4	883.24	833.60	12.5	4.00
59	Design	899.0	889.83	896.45	18	65	110	881.12	57		882.92	883.28	15.5	8.22



RISER

Scale	Date	No.	Date	Revision	Sheet
N.T.S.	02/29/2018				S.2
Computer File					
S.2 Riser.dwg					

DAVEL ENGINEERING & ENVIRONMENTAL, INC.
CIVIL ENGINEERING CONSULTANTS
811 Hoff Road, Howard, WI 54313
Ph: 920-434-6695 Fax: 920-434-9585
www.davel.pro

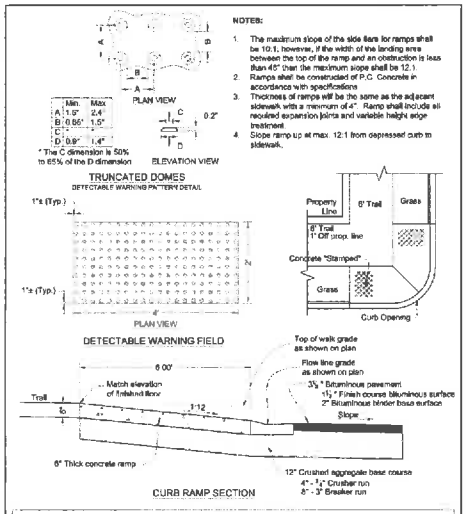
SEWER & LATERAL DETAILS

Savannah Heights 2
Town of Greenville, Outagamie County, WI
For: Dercks DeWitt, LLC

Printed by: katie
1/3/2018 9:56 AM J:\Projects\4541der\Dwg\Civil 3D\4541engr Phase 2 Plan Production.dwg

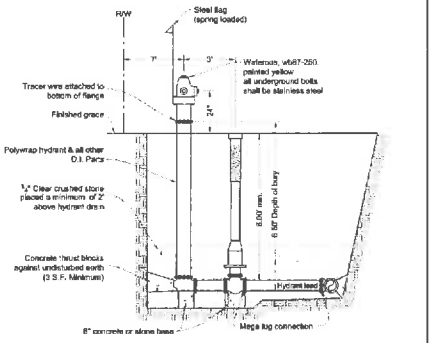
Date	07/3/2018
Filename	4541engr Phase 2 Plan Production.dwg
Author	TJT
Last Saved by	katie
Page	2.2

Exhibit A



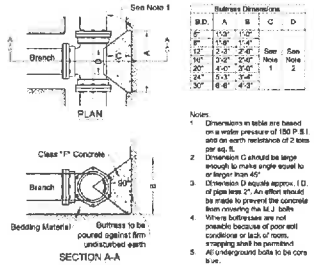
TYPICAL TRAIL RAMP

Scale	Date	No.	Date	Revision	Sheet
N.T.S.	03/3/2016				S.15
Computer File: S.15 Trail Ramp.dwg					



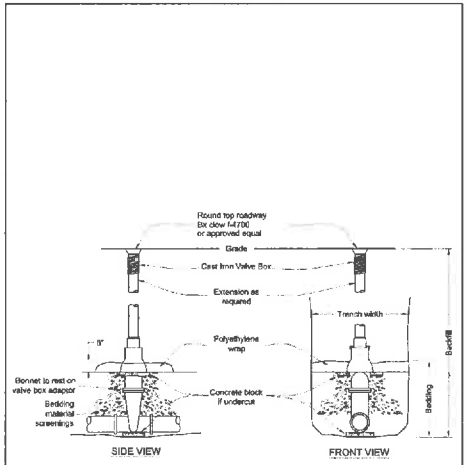
HYDRANT DETAIL

Scale	Date	No.	Date	Revision	Sheet
N.T.S.	03/3/2016				S.10
Computer File: S.10 Hydrant.dwg					



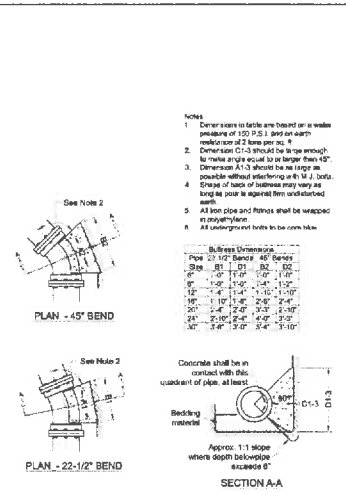
BLOCKING FOR TEES

Scale	Date	No.	Date	Revision	Sheet
N.T.S	02/12/2018				S.9
Computer File: S.8 Blocking for Tees.dwg					



STANDARD VALVE & VALVE BOX SETTING

Scale	Date	No.	Date	Revision	Sheet
N.T.S	03/2/2018				S.6
Computer File: S.6 Gate Valve Box Setting.dwg					



BLOCKING FOR BENDS

Scale	Date	No.	Date	Revision	Sheet
N.T.S.	02/10/2018				S.7
Computer File: S.7 Blocking for Bends.dwg					

1/3/2018 9:37 AM J:\Projects\4541engr\Civil 3D\4541engr Phase 2 Plan Production.dwg Printed by: katie

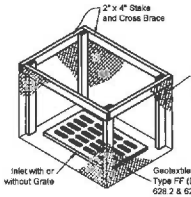
DAVEL ENGINEERING & ENVIRONMENTAL, INC.
CIVIL ENGINEERING CONSULTANTS
Fax: 920-991-1895
Ph: 920-830-9535
www.davel.pro

WATERMAIN & TRAIL DETAILS

Savannah Heights 2
Town of Greenville, Outagamie County, WI
For: Dercks DeWitt, LLC

Date: 07/3/2018
Filename: 4541engr Phase 2 Plan Production.dwg
Author: TJT
Last Saved by: katie
Page: 2.3

Exhibit A



INLET PROTECTION, TYPE A

GENERAL NOTES:

Inlet protection devices shall be maintained or replaced at the direction of the engineer

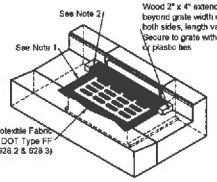
Manufactured alternatives approved and listed on the DOT Erosion Control Product Acceptability list may be substituted.

When removing or maintaining inlet protection, care shall be taken so that the sediment trapped on the geotextile fabric does not fall into the inlet. Any material falling into the inlet shall be removed immediately.

1. Finished size, including flap pockets where required, shall extend a minimum of 10" around the perimeter to facilitate maintenance or removal.

2. For inlet protection, Type C (with curb box), an additional 90° of fabric is wrapped around the wood and secured with staples. The wood shall not block the entire height of the curb box opening.

3. Flap pockets shall be large enough to accept wood 2x4.



INLET PROTECTION, TYPE C

INSTALLATION NOTES:

Inlet protection Type A shall be utilized around field inlets until permanent stabilization methods have been established. Inlet protection Type A shall be utilized on pavement inlets prior to installation of curb and gutter or pavement.

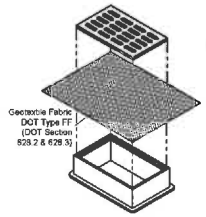
Inlet protection Type B shall be utilized on street inlets without curb heads, once surrounding surface is in place.

Inlet protection Type C shall be utilized on street inlets with curb heads.

TYPE B & C

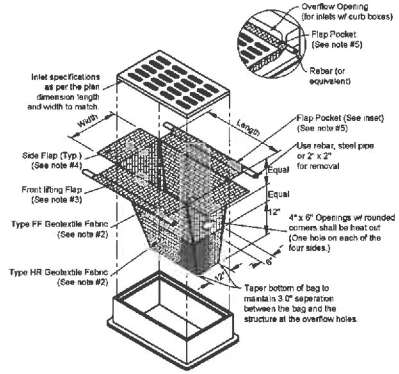
Trim excess fabric in the flow line to within 3" of the grate.

The contractor shall demonstrate a method of maintenance, using a sewn flap, hard holds, or other method to prevent accumulated sediment from entering the inlet.



INLET PROTECTION, TYPE B

(CAN BE INSTALLED IN ANY INLET WITHOUT A CURB BOX)



INLET PROTECTION, TYPE D-HR

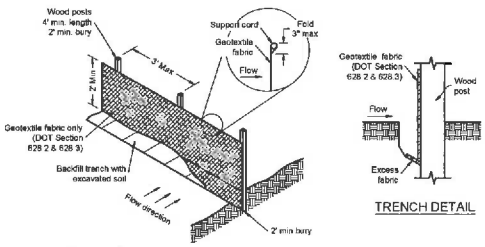
(CAN BE INSTALLED IN ANY INLET WITH OR WITHOUT A CURB BOX)

NOTES:

1. Taper bottom of bag to maintain three inches of clearance between the bag and the structure, measured from the bottom of the overflow openings to the structure wall.
2. Geotextile fabric, Type FF for flaps and top half of filter bag. Geotextile fabric, Type HR for bottom half of filter bag with front, back, and bottom being one piece.
3. Front lifting flap is to be used when removing and maintaining filter bag.
4. Side flaps shall be a maximum of two inches long. Fold the fabric over and reinforce with multiple stitches.
5. Flap pockets shall be large enough to accept wood 2" x 2". The rebar, steel pipe, or wood shall be installed in the rear flap and shall not block the top half of the curb face opening.

MAINTENANCE NOTES:

1. When removing or maintaining inlet protection, care shall be taken so that the sediment trapped in the fabric does not fall into the structure. Material that has fallen into the inlet shall be immediately removed.

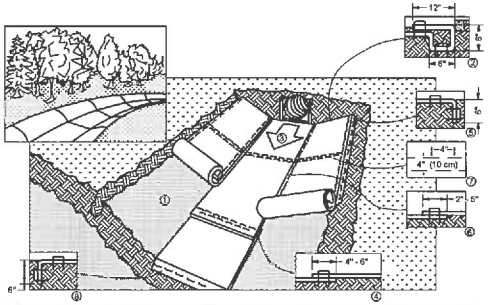


TRENCH DETAIL

Silt fence notes:

1. Detail of construction not shown on this drawings shall conform to criteria set by authorities having jurisdiction and by DNR Technical Standard 1056.
2. When possible, the silt fence should be constructed in an arc or horseshoe shape with the ends pointing upslope to maximize both strength and effectiveness.
3. Attach the fabric to the posts with wire staples or wooden lath and nails.
4. 8'-0" post spacing allowed if a woven geotextile fabric is used.
5. Trench shall be a minimum of 4" wide and 6" deep to bury and anchor the geotextile fabric. Fold material to fit trench and backfill and compact trench with excavated soil.
6. Geotextile fabric shall be reinforced with an industrial polypropylene netting with a maximum mesh spacing of 3/4" or equal. A heavy-duty nylon top support chord or equivalent is required.
7. Steel posts shall be studded "tee" or "u" type with a minimum weight of 1.25 lbs/lineal foot (without anchor). Fix anchors shall be a minimum size of 4" diameter or 1 1/2" x 3 1/2", except wood posts for geotextile fabric reinforced with netting shall be a minimum size of 1 1/8" x 1 1/8" oak or hickory.

SILT FENCE INSTALLATION



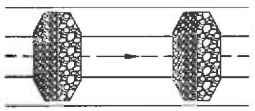
1. Prepare soil before installing Rolled Erosion Control Products (RECP's), including any necessary application of lime, fertilizer, and seed.
Note: When using cell-o-seed do not seed prepared area. Cell-o-seed must be installed with paper side down.
2. Begin at the top of the channel by anchoring the RECP's in a 6" (15 cm) deep x 6" (15 cm) wide trench with a approximately 12" (30 cm) of RECP's extended beyond the up-slope portion of the trench. Anchor the RECP's with a row of staples/stakes approximately 12" (30 cm) apart in the bottom of the trench. Backfill and compact the trench after stapling. Apply seed to compacted soil and fold remaining 12" (30 cm) portion of RECP's back over seed and compacted soil. Secure RECP's over compacted soil with a row of staples/stakes spaced approximately 12" (30 cm) across the width of the RECP's.
3. Roll center RECP's in direction of water flow in bottom of channel. RECP's will unroll with appropriate side against the soil surface. All RECP's must be securely fastened to soil surface by placing staples/stakes in appropriate locations as shown in the staple pattern guide. When using the DOT system, staples/stakes should be placed through each of the colored dots corresponding to the appropriate staple pattern.
4. Place consecutive RECP's end over end (shingle style) with a 4" - 6" (10 cm - 15 cm) overlap. Use a double row of staples staggered 4" (10 cm) apart and 4" (10 cm) on center to secure RECP's.
5. Full length edge of RECP's at top of side slopes must be anchored with a row of staples/stakes approximately 12" (30 cm) apart in a 6" (15 cm) deep x 6" (15 cm) wide trench. Backfill and compact the trench after stapling.
6. Adjacent RECP's must be overlapped approximately 2" - 5" (5cm - 12.5 cm) (depending on RECP's type) and stapled.
7. In high flow channel applications a staple check slot is recommended at 30 to 40 foot (9 M - 12 M) intervals. Use a double row of staples staggered 4" (10 cm) apart and 4" (10 cm) on center over entire width of the channel.
8. The terminal end of the RECP's must be anchored with a row of staples stakes approximately 12" (30 cm) apart in a 6" (15 cm) deep x 6" (15 cm) wide trench. Backfill and compact the trench after stapling.
Note:
* In loose soil conditions, the use of staple or stake lengths greater than 6" (15 cm) may be necessary to properly anchor the RECP's.
9 Detail provided by North American Green (www.nagreen.com)

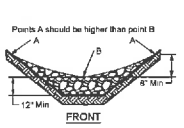
Critical Points
A. Overlaps and seams
B. Projected Water line
C. Channel Bottom/side slope vertices

Note
* Horizontal staple spacing should be altered if necessary to allow staples to secure the critical points along the channel surface.

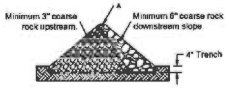
** In loose soil conditions, the use of staple or stake lengths greater than 6" (15 cm) may be necessary to properly anchor the RECP's.

EROSION MAT CHANNEL INSTALLATION

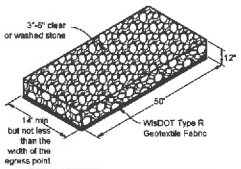




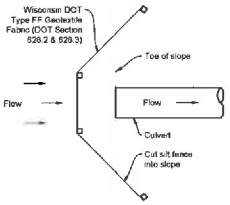
Place downstream structure such that point "B" is approximately level with the lowest ground elevation of the upstream structure



STONE DITCH CHECK



TRACKING PAD DETAIL



INLET PROTECTION

DAVEL ENGINEERING & ENVIRONMENTAL, INC.
CIVIL ENGINEERING CONSULTANTS
1611 Kishwaukee Street, Rockford, IL 61104
Ph: 920-991-1866 Fax: 920-830-9894
www.davel.pro

EROSION & SEDIMENT CONTROL DETAILS

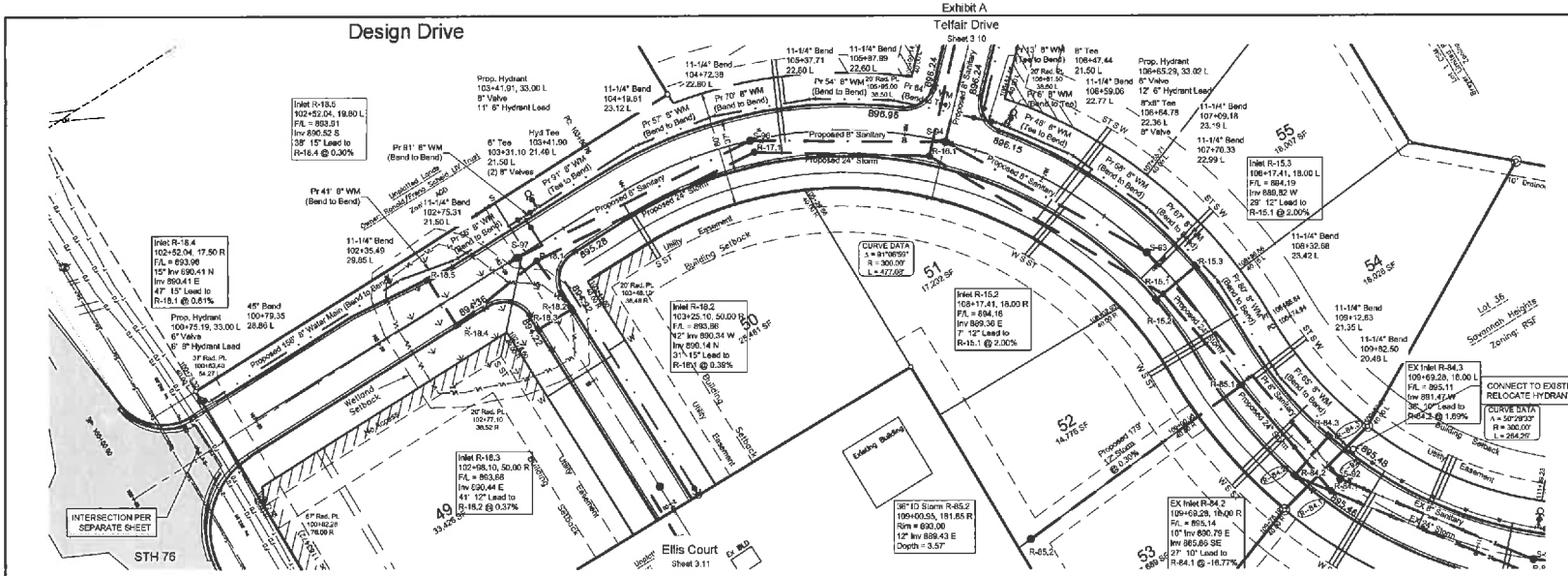
Savannah Heights 2

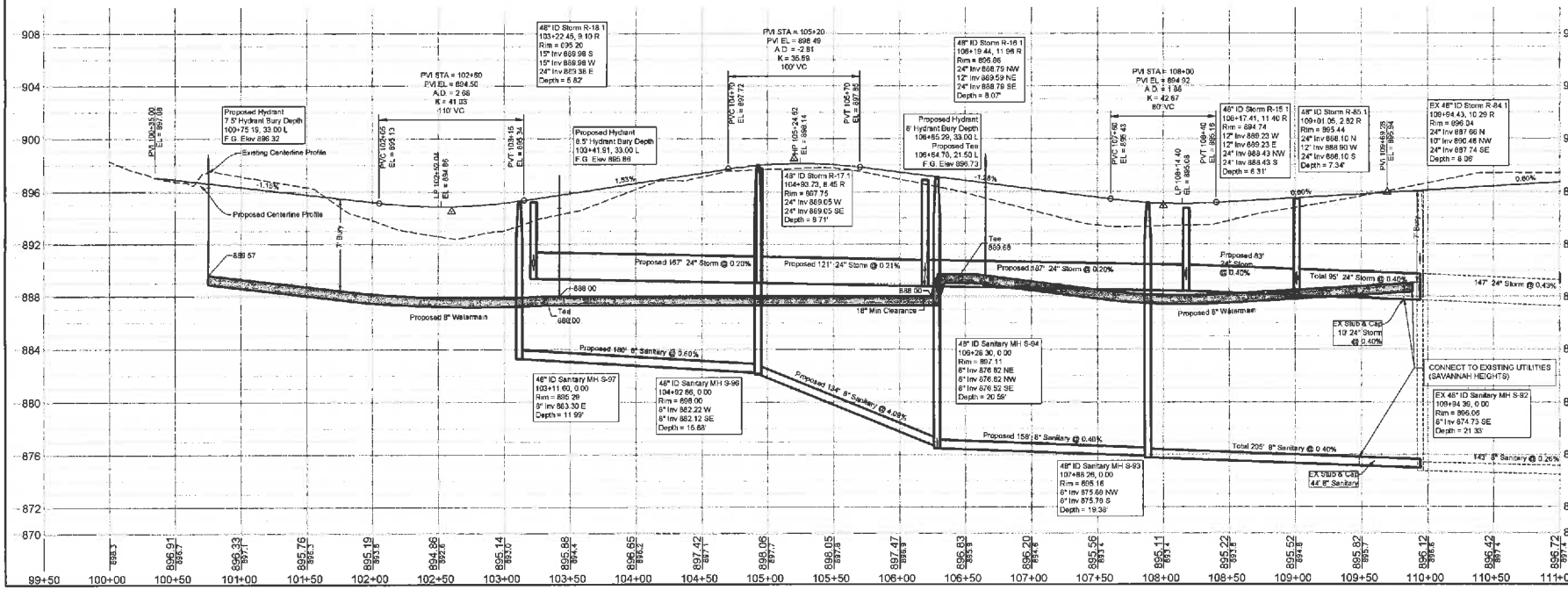
Town of Greenville, Outagamie County, WI
For: Dercks DeWitt, LLC

Date	07/3/2018
Filename	4941engr Phase 2 Plan Production.dwg
Author	TJT
Last Saved by	katie
Page	2.4

7/3/2018 9:57 AM J:\Projects\4941\dwg\Civil 3D\4941engr Phase 2 Plan Production.dwg Printed by: katie

Exhibit A





NOTES:

RADIUS STATIONING IS TO BACK OF CURB.

$81.^{16}$ = PROPOSED FLOWLINE GRADE

INLETS WITHIN ROADWAY ARE SET TO GRAVEL GRADE (F.G. LESS 0.33')

ALL OTHER STRUCTURES WITHIN ROADWAY ARE SET TO FINISH GRADE

ALL STORM STRUCTURES SHALL HAVE MINIMUM 5-FOOT TOTAL DEPTH

LEGEND

Proposed Storm Sewer
Proposed Sanitary Sewer
Proposed Water Main
Proposed Culvert
Proposed Swale/ Ditch
Proposed Sanitary Manhole
Proposed Storm Manhole
Proposed Curb Inlet
Prop Catch Basin/Yard Drain
Proposed Endwall
Proposed Hydrant
Proposed Valve
Proposed Tee
Proposed Cross
Proposed Bend
Proposed Reducer
Proposed Plug

Horizontal 40 20 0 40
Vertical 4 2 0

Savannah Heights 2

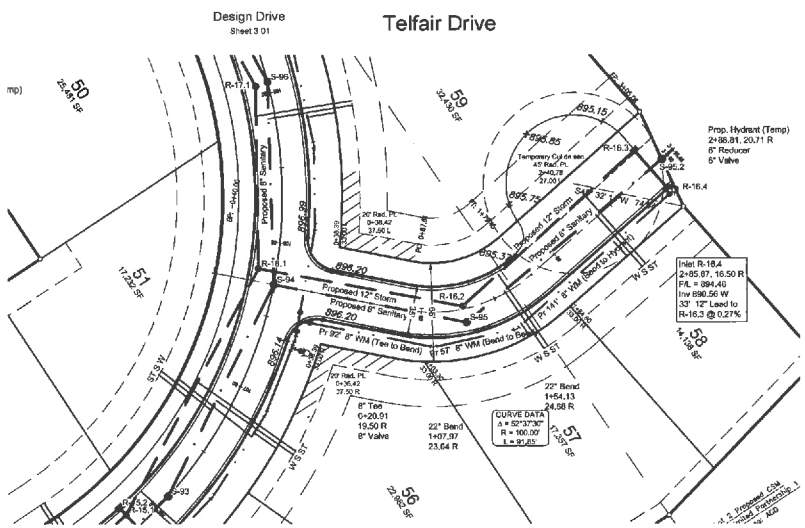
Town of Greenville, Outagamie County, WI
For: Dercks DeWitt, LLC

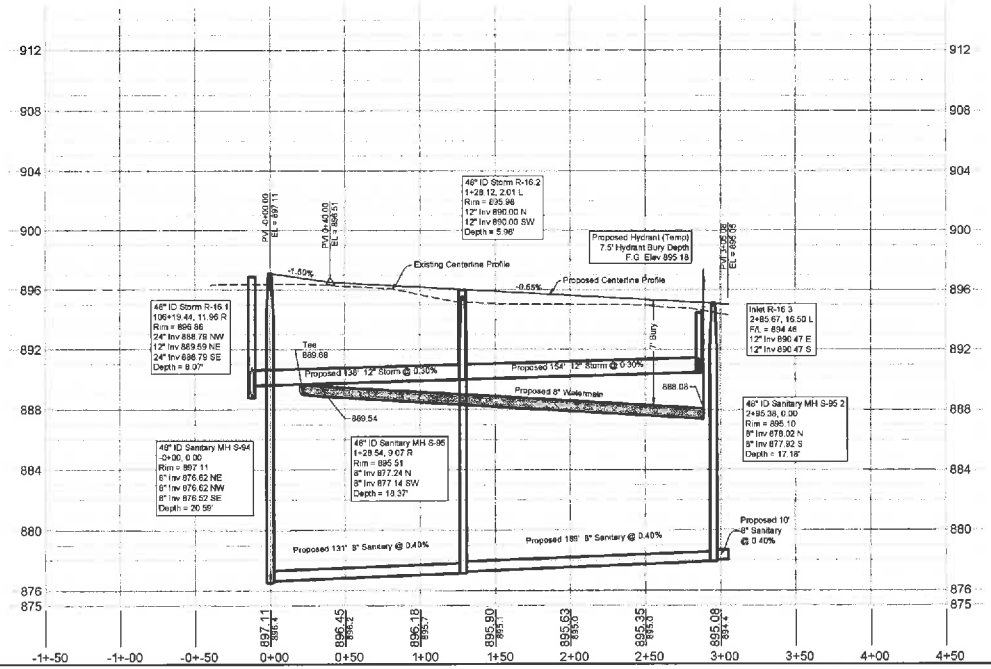
IMPROVEMENT PLANS
Design Drive
Sta 99+50 to 111+00

DAVEL ENGINEERING & ENVIRONMENTAL, INC.
CIVIL ENGINEERING CONSULTANTS
1811 Racine Street Menasha, WI 54952
PH 920.380.8115 FAX 920.380.8695
www.davel.pro

Filename: 4541prof-02.dwg
Date: July 3, 2018
Page: 3.01
Engineer: TNW
Drafted By: katie

Exhibit A





NOTES:

RADIUS STATIONING IS TO BACK OF CURB.

$\frac{914.16}{}$ - PROPOSED FLOWLINE GRADE

INLETS WITHIN ROADWAY ARE SET TO GRAVEL GRADE (F.G. LESS 0.33')

ALL OTHER STRUCTURES WITHIN ROADWAY ARE SET TO FINISH GRADE.

ALL STORM STRUCTURES SHALL HAVE MINIMUM 6-FOOT TOTAL DEPTH

LEGEND

- Proposed Storm Sewer
- Proposed Sanitary Sewer
- Proposed Water Main
- Proposed Culvert
- Proposed Swale/ Ditch
- Proposed Sanitary Manhole
- Proposed Storm Manhole
- Proposed Curb Inlet
- Prop Catch Basin/Yard Drain
- Proposed Endwall
- Proposed Hydrant
- Proposed Valve
- Proposed Tee
- Proposed Cross
- Proposed Bend
- Proposed Reducer
- Proposed Plug

Horizontal 40 20 0 40

Vertical 4 2 0

Savannah Heights 2

Town of Greenville, Outagamie County, WI

For: Deroks DeWitt, LLC

IMPROVEMENT PLANS

Telfair Drive

Sta -0+40 to 3+05.08

DAVEL ENGINEERING & ENVIRONMENTAL, INC.
CIVIL ENGINEERING CONSULTANTS
191 Racine Street, Menasha, WI 54952
Ph. 920-968-0677 Fax 920-968-0685
www.davel.pro

July 3, 2018, 8:19 AM, Printed by: katie
J:\Projects\Savannah Heights\4541\Civil\4541prof-01.dwg

Filename: 4541prof-01.dwg

Date: July 3, 2018

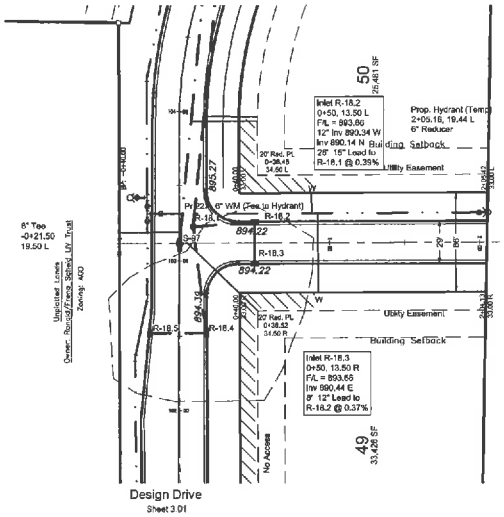
Page: 3.10

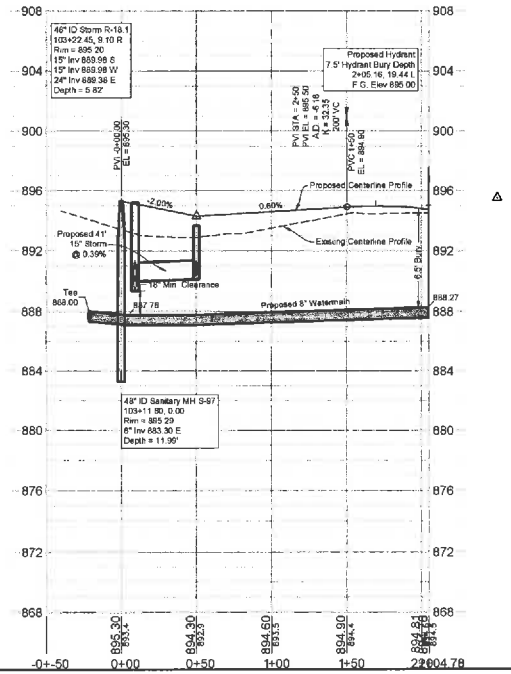
Engineer: TNW

Drafted By: katie

Exhibit A

Ellis Court





NOTES:

RADIUS STATIONING IS TO BACK OF CURB

894.18 = PROPOSED FLOWLINE GRADE

INLETS WITHIN ROADWAY ARE SET TO GRAVEL GRADE (F.G. LESS 0.33')

ALL OTHER STRUCTURES WITHIN ROADWAY ARE SET TO F.G./GRADE

ALL STORM STRUCTURES SHALL HAVE MINIMUM 6-FOOT TOTAL DEPTH

LEGEND

- Proposed Storm Sewer
- Proposed Sanitary Sewer
- Proposed Water Main
- Proposed Culvert
- Proposed Sunital Ditch
- Proposed Sanitary Manhole
- Proposed Storm Manhole
- Proposed Curb Inlet
- Proposed Catch Basin/Yard Drain
- Proposed Endwall
- Proposed Hydrant
- Proposed Valve
- Proposed Tee
- Proposed Cross
- Proposed Bend
- Proposed Reducer
- Proposed Plug

Horizontal 40 20 0 40

Vertical 4 2 0

Savannah Heights 2

Town of Greenville, Outagamie County, WI

For: Dercks DeWitt, LLC

IMPROVEMENT PLANS

Ellis Court

Sta -0+40 to 2+04.78

DAVEL ENGINEERING & ENVIRONMENTAL, INC.

CIVIL ENGINEERING CONSULTANTS

1811 Racine Street Menasha, WI 54952

Ph 920-991-1188 Fax 920-830-9595

www.davel.pro

July 3, 2018, 9:16 AM, Printed by katie

J:\Projects\4541\Final\Civil\3D\4541prof-01.dwg

Filename: 4541prof-01.dwg

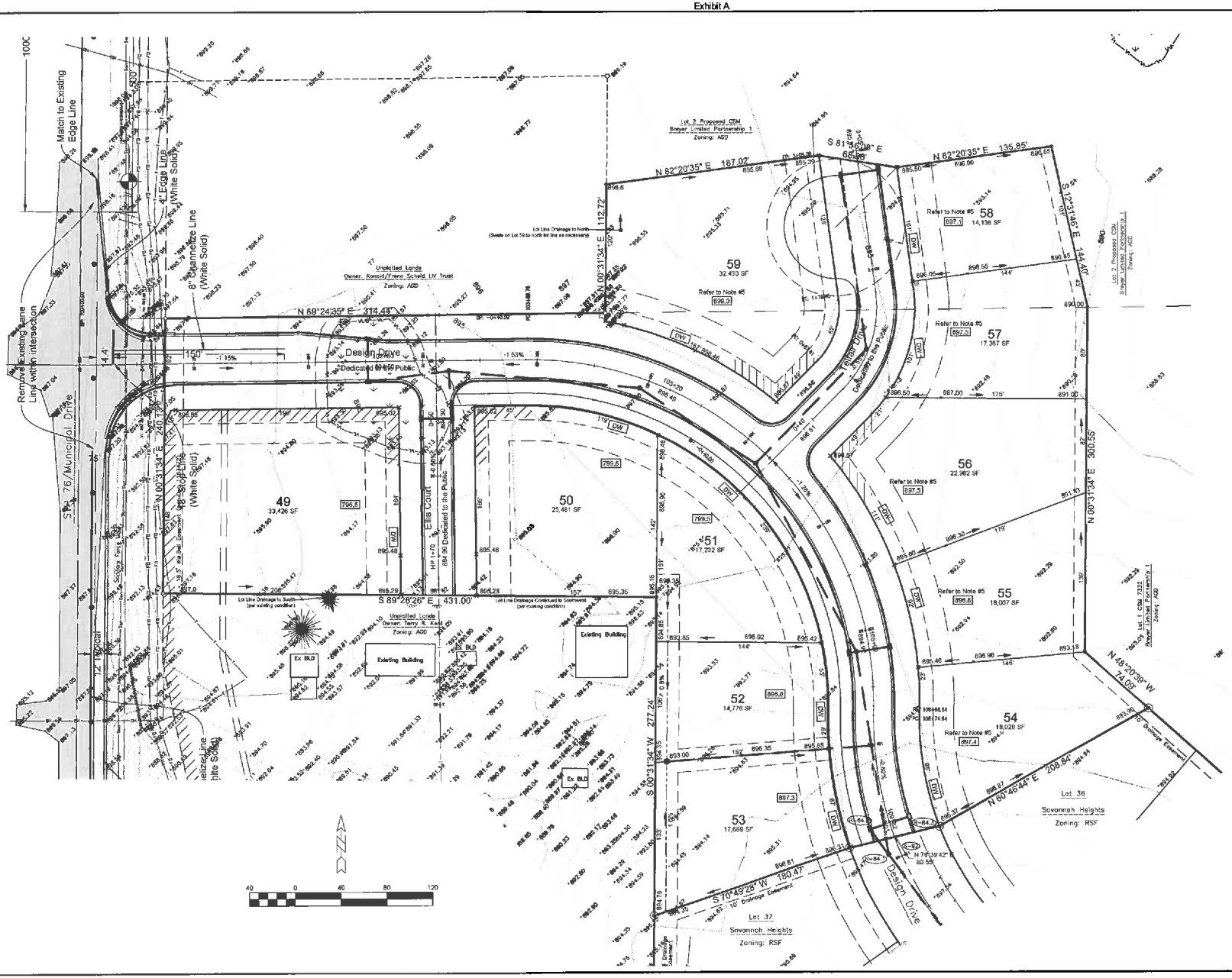
Date: July 3, 2018

Page: 3.11

Engineer: TNW

Drafted By: katie

Exhibit A



DAVEL ENGINEERING & ENVIRONMENTAL, INC.
CIVIL ENGINEERING CONSULTANTS
1811 Progress Road, Hartford, WI 53027
Ph: 920-991-1656 Fax: 920-630-9595
www.davel.pro

DRAINAGE OVERLAY

Savannah Heights 2
Town of Greenville, Outagamie County, WI
For: Dercks DeWitt, LLC

Date	07/2/2018
Filename	4541engr Phase 2 Plan Production.dwg
Author	TJT
Last Saved by	tim
Page	DP w-TOPO

1/3/2018 8:26 AM J:\Projects\4541de\dev\Civil 3D\4541engr Phase 2 Plan Production.dwg Revised By: tim