

**CITY OF STORM LAKE
REGULAR COUNCIL MEETING, CITY HALL
COUNCIL CHAMBERS
OCTOBER 21, 2019
5:00 PM**



City of Storm Lake
PO Box 1086
Storm Lake, IA 50588
p (712) 732-8000
f (712) 732-4114

AGENDA

- A. Pledge of Allegiance
- B. **Consideration of Changes in Agenda and Setting the Agenda**
- C. **Disclosure by City Council Members**
- 1. Hear the Public
- 2. Consent Agenda
 - A. **Approve Consent Agenda**
 - B. **Buy Local Information**
- 3. **Unfinished Business - Resolution No. 24-R-2019-2020 approving Change Order No. 1 for the Casino Lift Station Odor Control Project**
- 4. **Presentation of Storm Lake Police Department Staff Awards**
- 5. **Ordinance No. 02-O-2019-2020 On A The Proposed Re-Zoning of Parcel "A" and Parcel "B" - Third Reading**
- 6. **Motion to Approve Agreement Between the City of Storm Lake and Buena Vista County**
- 7. **Public Hearing for Wastewater Treatment Facility Wetlands**
- 8. **Resolution No. 34-R-2019-2020 Approving Plans, Specification, and Form of Contract for Wastewater Treatment Facility Wetlands Project**
- 9. **City Council Requested Items**
- 10. **Motion to Recess City Council Meeting and Reconvene at the Lighthouse Tour**
- 11. Adjourn

Meeting Protocol

If you wish to speak today, please:

- 1. To speak on an agenda item please approach the podium when that agenda item is called and upon recognition by the Mayor identify yourself by stating your name and address.
- 2. If your issue is not a topic on the agenda please approach the podium under the "Hear the Public" agenda item and upon recognition by the Mayor identify yourself by stating your name and address.
- 3. Please keep your remarks to three (3) minutes or less.
- 4. If you require accommodation for this meeting including but not limited to translation services, hearing assistance,

or accessibility please contact the City Clerk at least four (4) hours prior to the start of the meeting.

**If you have concerns about any of the items on the consent agenda, they may be separated from the consent agenda and voted on individually.*

***Ordinances may be read at three consecutive meetings or readings may be waived and ordinances may be passed at only one or two meetings.*



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Staff Summary

10/21/2019

Agenda Item # B.



City of Storm Lake
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REPORT TO: Honorable Mayor and City Council

FROM:

SUBJECT: Consideration of Changes in Agenda and Setting the Agenda

BACKGROUND:

FISCAL IMPACT:

RECOMMENDATION:

Staff Summary

10/21/2019

Agenda Item # C.



City of Storm Lake
PO Box 1086
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REPORT TO: Honorable Mayor and City Council

FROM:

SUBJECT: Disclosure by City Council Members

BACKGROUND:

FISCAL IMPACT:

RECOMMENDATION:

Staff Summary

10/21/2019

Agenda Item # A.



City of Storm Lake
PO Box 1086
Storm Lake, IA 50588
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REPORT TO: Honorable Mayor and City Council

FROM: Mayra Martinez, City Clerk

SUBJECT: **Approve Consent Agenda**

BACKGROUND: The Consent Agenda Includes:

- List of bills for approval
- King's Pointe and Sunrise Pointe disbursements for approval
- Approve the October 7, 2019 City Council Minutes
- Approve renewal liquor license for Lake Avenue Lounge

FISCAL IMPACT: The City will pay the following expenditures:

- List of Bills - \$454,332.70
- King's Pointe & Sunrise Pointe Golf Course Bills - \$9,789.45

The City will receive the following revenues:

- Liquor License - \$845.00

RECOMMENDATION: Approve Consent Agenda

ATTACHMENTS:

Description	Type
☐ List of Bills	List of Bills
☐ King's Pointe and Golf Course - List of Bills	List of Bills
☐ Minutes - October 7, 2019	Minutes
☐ Lake Avenue Liquor License Application	Application
☐ Lake Avenue Liquor Report 2019	Backup Material



Storm Lake, IA

My Buy Local_v1

Payment Date Range: 10/10/2019 - 10/23/2019

Vendor Name	Buy Local Info	Payable Description	Total Payments
BVC			
Mike's Electronics Inc	BVC	Memorial LS Muffin Monster Repairs	6,823.53
Control Systems Specialists, LLC	BVC	Filter Panel Replacement for Blowers	620.54
Mike's Electronics Inc	BVC	Casino LS Repairs	890.08
Alta Implement Company, Inc	BVC	Pulley	122.10
Mike's Electronics Inc	BVC	Service Call- Well 20	112.50
Buena Vista County Solid Waste	BVC	Recycling	98.28
Mike's Electronics Inc	BVC	Service Call	85.00
Buena Vista County Solid Waste	BVC	Recycling	158.76
Buena Vista County Recorder	BVC	September 2019 Recording Fee	42.00
Buena Vista County Solid Waste	BVC	Recycling	51.00
BVC Total:			9,003.79
Contract/Agreement			
Bolton & Menk, Inc	Contract/Agreement	Development Engineering Services	79,093.50
I & S Group, Inc	Contract/Agreement	Engineering Services	1,256.25
Bolton & Menk, Inc	Contract/Agreement	General Engineering Services	744.00
I & S Group, Inc	Contract/Agreement	Final Design Services	170.50
Contract/Agreement Total:			81,264.25
Local			
MidAmerican Energy Company	Local	Electric Services	63,369.55
Star Energy, LLC	Local	Fuel	7,960.20
Smith Concrete Service Inc	Local	Concrete	7,143.50
Rebnord Technologies, Inc	Local	IT Service Agreement	3,700.00
Verizon Wireless Services LLC	Local	Cell Phone Service	3,289.69
Philip E Havens	Local	Legal Services- September 2019	2,992.08
Genesis Development	Local	Janitorial Services	2,000.00
Central Bank	Local	Supplies	1,935.59
Storm Lake Industrial Corporation	Local	Advertising (1/3)	1,900.00
Richard Phillips	Local	Radiator Repairs	1,786.30
Garbage Hauling Service Inc	Local	Garbage Service	1,296.09
Graham Tire	Local	New Tires (2)	1,257.80
Iowa Office Supply Inc	Local	Office Chairs	1,084.00
Graffix Inc	Local	Uniforms	1,050.00
Vanish LLC	Local	September 2019 Towing Services	1,000.00
Alliant Energy	Local	Gas Services	943.94
Vetter Equipment	Local	Shihl Quick Saw	917.95
Rebnord Technologies, Inc	Local	Monitor Stands (2)	1,439.80
Buena Vista University	Local	October 2019 Fall Cleanup Services	500.00
The Storm Lake Times	Local	September 2019 Publications	476.30
Storm Lake Ace Hardware	Local	Supplies	454.64
Edwards Storm Lake	Local	Injector Replacement	449.44
Graffix Inc	Local	Uniforms	337.45
Siouxland Certified Testing Services, Inc	Local	Testing Services- Parking Lot B (Michigan)	329.00
Michael P. Reinert	Local	Welding Wire	288.10
Color-ize Inc	Local	Award- Kavan	212.75
Mike's Lawn Service, Inc	Local	Lawn Renovation	210.00
Rent-All, Inc	Local	Canopy Rental	160.00
Kelly Johnson	Local	September 2019 Punches	144.00
Jeff DeWall	Local	Discount Coupons	139.00
Qwest Corporation	Local	October 2019 Phone Service	120.91
Iowa Office Supply Inc	Local	Office Supplies	98.76
Dennis R Julius	Local	September 2019 City Hall/PD Services	96.20
JNB Acquisition Corporation	Local	Copier Maintenance Agreement	92.93
Dianne Johnson	Local	Bd & Disp of Dogs	85.00

My Buy Local_v1
Payment Date Range: 10/10/2019 - 10/23/2019

Vendor Name	Buy Local Info	Payable Description	Total Payments
Plumbing & Heating Wholesale, Inc	Local	Blade	83.80
Smokin Hereford LLC	Local	Safety Bingo Supplies	81.92
Deere Credit, Inc	Local	Seal Kit	81.80
Storm Lake Hydraulics Co, Inc	Local	Hyd Hose & Supplies	78.21
Buena Vista Regional Medical Center	Local	9/4/2019 Eaton Drug Testing	142.00
The Storm Lake Times	Local	FY2020 Subscription- PD	139.90
JNB Acquisition Corporation	Local	Copier Maintenance Agreement	60.67
Stanton Electric, Inc	Local	Lights	60.00
Color-ize Inc	Local	Mounting Posters	60.00
McCrea Eneterprises	Local	Paint	58.95
Jerry's Tree Service	Local	Consultaion- 1104 Oneida Street	50.00
Builders FirstSource Inc	Local	Hinges	48.92
Vetter Equipment	Local	Stump Cutting Supplies	45.95
Iowa Office Supply Inc	Local	Envelopes	43.06
Graham Tire	Local	Tire Repairs	42.00
Buena Vista Regional Medical Center	Local	9/6/2019 Drug Testing	41.00
Dennis R Julius	Local	Laundry Services	40.50
JNB Acquisition Corporation	Local	Copier Maintenance Agreement	36.06
Graham Tire	Local	Tire Repairs	50.00
JNB Acquisition Corporation	Local	Copier Maintenance Agreement	24.68
O'Reilly Automotive Inc	Local	Light	23.88
JNB Acquisition Corporation	Local	Copier Maintenance Agreement	44.75
O'Reilly Automotive Inc	Local	Wiper Fluid	19.96
Plumbing & Heating Wholesale, Inc	Local	Clamps	18.20
Iowa Office Supply Inc	Local	Name Tag	16.65
Hy-Vee, Inc	Local	Supplies	4.95

Local Total: 110,658.78
Non-Local

Eastern Aviation Fuels, Inc	Non-Local	Jet A Fuel	18,961.42
Digital Ally Inc	Non-Local	In-Car Video Units	6,360.00
Mississippi Lime Company	Non-Local	Lime	16,155.48
Hawkins, Inc	Non-Local	Azone	4,636.27
Chem-Sult, Inc	Non-Local	Sodium Chlorite	3,847.80
Schumacher Elevator Company	Non-Local	FY20 Elevator Inspections	3,730.04
Shield Technology Corporation	Non-Local	FY2020 ShieldWare RMS Software Agreement	3,037.50
Hawkins, Inc	Non-Local	Hydro Acid	2,741.39
Electric Pump Inc	Non-Local	Service Call on IPS Lift Station	2,652.50
The Advantage Companies, LLC	Non-Local	Microfiliming	2,325.00
Kiesler Police Supply, Inc	Non-Local	Firearm	2,060.00
Hach Company	Non-Local	Testing Supplies	2,010.60
Tyler Technologies, Inc	Non-Local	Insite Transaction Fees	1,803.75
Ahlers & Cooney, P.C.	Non-Local	Legal Services- Hillshire	1,642.00
Utility Equipment Co	Non-Local	Clamps	1,418.85
Trevor Kruger	Non-Local	Laminate Glass Repairs	1,080.80
BlueTarp Financial, Inc	Non-Local	Handler	999.99
Kirkwood Community College	Non-Local	Basic Water Distribution Training- Eaton & Ste	960.00
Treasurer State of IA	Non-Local	2019 Unclaimed Property Filing Remittance	938.81
Dale Vitito	Non-Local	Uniforms	801.99
Blacktop Service Company	Non-Local	Hot Mix	626.40
Utility Equipment Co	Non-Local	Saddle	523.44
Polk County Sheriff	Non-Local	Garnishment	515.75
Specter Instruments, Inc	Non-Local	FY2020 Annual Maintenance & Support	495.00
Pitney Bowes Inc	Non-Local	10/15/2019 Postage	487.00
Ahlers & Cooney, P.C.	Non-Local	Legal Services- Amend #7 Ind Park	456.00
Sodexo	Non-Local	Coffee with a Cop	334.70
Central Iowa Distributing, Inc	Non-Local	Cleaning Supplies	310.50
Iowa Law Enforcement Academy	Non-Local	MMPI Evaluation	300.00
Hach Company	Non-Local	Testing Supplies	269.97
University Enterprises, Inc	Non-Local	Operations of Water Class- Tarrin	264.00
Jeff Koenig	Non-Local	Portable Toilet Rental	262.00

My Buy Local_v1
Payment Date Range: 10/10/2019 - 10/23/2019

Vendor Name	Buy Local Info	Payable Description	Total Payments
Midwest Tape, LLC	Non-Local	CDs	231.15
Central Iowa Distributing, Inc	Non-Local	Cleaning Supplies	226.00
Schumacher Elevator Company	Non-Local	Elevator Maintenance	210.97
Digital Ally Inc	Non-Local	Battery	210.00
BlueTarp Financial, Inc	Non-Local	Quick-Attach Skid Plate	179.99
International Public Management Associati	Non-Local	FY2020 Membership	149.00
Utility Supply of America, Inc	Non-Local	Supplies	145.94
Central Iowa Distributing, Inc	Non-Local	Cleaning Supplies	143.00
Brodart Co.	Non-Local	Books	136.79
UnityPoint Clinic- Occupational Medicine	Non-Local	Drug Testing	126.00
Alpha Wireless Communications	Non-Local	Battery Packs	122.60
Central Iowa Distributing, Inc	Non-Local	Cleaning Supplies	119.60
Brodart Co.	Non-Local	Books	107.46
Houchen Bindery, Ltd	Non-Local	Books	102.00
Ahlers & Cooney, P.C.	Non-Local	Legal Services- Ag Land Concent- Ind Park	95.00
Amerigas	Non-Local	FY2020 Tank Rental Fee	83.00
Iowa Lakes Regional Water	Non-Local	Water Service	70.69
State Library of Iowa	Non-Local	FY20 OCLC CatExpress Subscription	66.00
Cintas First Aid & Safety	Non-Local	First Aid Supplies	63.84
Iowa League of Cities	Non-Local	2019 Budget Workshop Registration- Gibbins	100.00
Central Iowa Distributing, Inc	Non-Local	Cleaning Supplies	42.50
Brownells, Inc	Non-Local	Supplies	38.73
Ingram Library Services, Inc	Non-Local	Books	38.33
Steven A Beeck	Non-Local	Window Cleaning Service	37.00
Iowa Stormwater Education Partnership	Non-Local	SRF Workshop Registration- Gibbins 11/20/20:	35.00
Tyler Technologies, Inc	Non-Local	Utility Billing Notification Services	34.50
Barnes & Noble Booksellers, USA Inc	Non-Local	Books	22.40
Brodart Co.	Non-Local	Books	21.21
Ingram Library Services, Inc	Non-Local	Books	62.00
Barnes & Noble Booksellers, USA Inc	Non-Local	Books	19.96
Ingram Library Services, Inc	Non-Local	Books	77.54
Brodart Co.	Non-Local	Books	36.21
Ingram Library Services, Inc	Non-Local	Books	74.72
Brodart Co.	Non-Local	Books	13.78
Ingram Library Services, Inc	Non-Local	Books	27.13
Brodart Co.	Non-Local	Books	13.18
Ingram Library Services, Inc	Non-Local	Books	12.26
Brodart Co.	Non-Local	Books	9.85
Ingram Library Services, Inc	Non-Local	Books	8.97
Non-Local Total:		86,323.25	
Payroll/Refunds			
Michael Porsch	Payroll/Refunds	League of Cities Conference Travel	290.00
Custodian of Petty Cash	Payroll/Refunds	September 2019 Postage	132.34
Michael Porsch	Payroll/Refunds	NWILC	105.56
Ruth Freese	Payroll/Refunds	September 2019 Homebound Deliveries	10.44
Christina Reyes	Payroll/Refunds	Refund Check- Reissue Check 73442	7.20
Payroll/Refunds Total:		545.54	
Grand Total:		287,795.61	

King's Pointe Resort
October 3rd to October 15th, 2019

Vendor	Description	Amount
MARTIN BROTHERS	Beverages	8,982.24
Hy-Vee #01634	Beverages	570.76
fintech.net	Services	56.65
DOLL DISTRIBUTING	Beverages	103.80
Johnson Brothers	Beverages	76.00
		<u>9,789.45</u>

**REGULAR COUNCIL MEETING, CITY OF STORM LAKE, IOWA, CITY HALL,
OCTOBER 7, 2019 5:00 P.M.**

Present: Mayor Michael Porsch, Council Members Jose Ibarra, Tyson Rice, Kevin McKinney, and Dan Smith. Absent: Council Member Bruce Engelmann
Staff present: City Manager Keri Navratil, Assistant City Manager David Derragon, City Attorney Phil Havens, Public Safety Director Mark Prosser, Fire Chief Mike Jones, Building Official Scott Olesen, Library Director Elizabeth Huff, Public Service Supervisor Scott Bonebrake, Finance Director Brian Oakleaf, City Clerk Mayra Martinez and Deputy City Clerk Nelda Kirkholm.

Mayor Porsch called the meeting to order at 5:01pm.

Pledge of Allegiance

Agenda – Moved by Council Member Ibarra to approve setting the Agenda with changes in the order of the agenda. Move the Unfinished Business for the Casino Lift Station Odor Control Project after the Consent Agenda as suggested by Mayor Porsch. Seconded by Council Member Smith. Vote: All ayes with Council Member Engelmann absent. Motion carried.

Disclosure by City Council Members – none

Hear the Public – No comments from the Public.

Mayor Porsch commented that the City Wide Cleanup was a success. Mayor Porsch thanked the St. Mary's students and the Storm Lake High School students and the Public Works employees for all of their help with the Cleanup Week.

Consent Agenda – Moved by Council Member McKinney to approve the consent agenda which includes List of bills, check #'s 74197 through 74276, EFT #'s 618 through 661, DFT #'s 415 through 419, 422 through 458, PR #'s 59733 through 59739, King's Pointe and Sunrise Pointe disbursements, September 16, 2019 City Council Minutes, renewal liquor license for Al's Liquor, new Tobacco license for Hy-Vee Fast & Fresh Express, new liquor license for Hy-Vee Fast & Fresh Express, outside water applications for 170 Scott Street and 199 South Cove, Civil Service Patrol Officer Eligibility List, applications for Tax Abatements for the properties located at 1004, 1017, and 1021 Evergreen, 204 Oneida Street, and 806 and 810 East Fifth Street, and 1507 East Fourth Street. Seconded by Council Member Ibarra. Vote: All ayes with Council Member Engelmann absent. Motion carried.

Casino Lift Station Odor Control Project - Moved by Council Member Smith to postpone agenda item Resolution No. 24-R-2019-2020 approving Change Order No. 1 for the Casino Lift Station Odor Control Project to the next regular City Council meeting October 21, 2019 at 5:00 pm. Seconded by Council Member Ibarra. Vote: All ayes with Council Member Engelmann absent. Motion carried.

Public Hearing Budget Amendment 2019-2020 - Mayor Porsch opened the public hearing for the FY2020 Budget Amendment stating this was the time and place for any comments. Hearing no comments from the public; Mayor Porsch then closed the public hearing.

Budget Amendment 2019-2020 – Moved by Council Member McKinney to approve Resolution No. 30-R-2019-2020 amending the current budget for the Fiscal Year ending June 30, 2020. Seconded by Council Member Smith. Roll Call Vote: All ayes with Council Member Engelman absent. Motion carried.

RESOLUTION NO. 30-R-2019-2020

A RESOLUTION AMENDING THE CURRENT BUDGET FOR THE FISCAL YEAR ENDING JUNE 30, 2020

Be it Resolved by the Council of the City of Storm Lake:

Section 1. Following notice published September 25, 2019 and the public hearing held, October 7, 2019 the current budget is amended as set out herein and in the detail by fund type and activity that supports this resolution which was considered at that hearing:

		Total Budget as certified or last amended	Current Amendment	Total Budget after Current Amendment
Revenues & Other Financing Sources				
Taxes Levied on Property	1	4,210,329	0	4,210,329
Less: Uncollected Property Taxes-Levy Year	2	0	0	0
Net Current Property Taxes	3	4,210,329	0	4,210,329
Delinquent Property Taxes	4	0	0	0
TIF Revenues	5	778,044	0	778,044
Other City Taxes	6	2,649,102	0	2,649,102
Licenses & Permits	7	164,195	0	164,195
Use of Money and Property	8	358,602	0	358,602
Intergovernmental	9	2,651,300	1,725,000	4,376,300
Charges for Services	10	15,371,470	0	15,371,470
Special Assessments	11	0	0	0
Miscellaneous	12	297,877	0	297,877
Other Financing Sources	13	0	8,022,563	8,022,563
Transfers In	14	6,939,041	0	6,939,041
Total Revenues and Other Sources	15	33,419,960	9,747,563	43,167,523
Expenditures & Other Financing Uses				
Public Safety	16	2,984,429	0	2,984,429
Public Works	17	1,760,570	0	1,760,570
Health and Social Services	18	23,750	0	23,750
Culture and Recreation	19	1,629,261	0	1,629,261
Community and Economic Development	20	389,920	0	389,920
General Government	21	718,593	0	718,593
Debt Service	22	2,189,790	0	2,189,790
Capital Projects	23	1,517,781	2,300,000	3,817,781
Total Government Activities Expenditures	24	11,214,094	2,300,000	13,514,094
Business Type / Enterprises	25	14,778,355	7,447,563	22,225,918
Total Gov Activities & Business Expenditures	26	25,992,449	9,747,563	35,740,012
Transfers Out	27	6,939,041	0	6,939,041
Total Expenditures/Transfers Out	28	32,931,490	9,747,563	42,679,053
Excess Revenues & Other Sources Over (Under) Expenditures/Transfers Out for Fiscal Year	29	488,470	0	488,470
Beginning Fund Balance July 1	30	17,857,803	0	17,857,803
Ending Fund Balance June 30	31	18,346,273	0	18,346,273

NOW THEREFORE be it resolved by the City Council of the City of Storm Lake, Iowa, to approve the above said budget amendment for the 2019-2020 Fiscal Year.

PASSED AND APPROVED this 7th day of October, 2019.

Michael Porsch, Mayor

ATTEST:

Mayra A. Martinez, City Clerk

Street Finance Report 2018-2019 - Moved by Council Member Smith to adopt Resolution No. 31-R-2019-2020 approving the FY 2018-2019 Street Finance Report. Seconded by Council Member Ibarra. Roll Call Vote: All ayes with Council Member Engelmann absent. Motion carried.

RESOLUTION NO. 31-R-2019-2020

RESOLUTION APPROVING THE UPDATED 2018-2019 FISCAL YEAR STREET FINANCE REPORT

BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF STORM LAKE, IOWA

That the updated 2018-2019 Fiscal Year Street Finance Report be approved.

PASSED AND APPROVED this 7th day of October, 2019.

Michael Porsch, Mayor

ATTEST:

Mayra A. Martinez, City Clerk

Re-zone Of Sand and City Property - Moved by Council Member McKinney to approve the second reading of Ordinance No. 02-O-2019-2020 on the proposed re-zoning of Parcel "A" and Parcel "B". Seconded by Council Member Smith. Roll call vote: All ayes with Council Member Engelmann absent. Motion carried.

Land Annexation/Sand and City – Moved by Council Member Rice to adopt Resolution No. 32-R-2019-2020 approving voluntary annexation Parcel "A" and "B" - Sand and City. Seconded by Council Member Ibarra. Roll Call Vote: All ayes with Council Member Engelmann absent. Motion carried.

RESOLUTION NO. 32-R-2019-2020

RESOLUTION APPROVING VOLUNTARY ANNEXATION

OF TERRITORY IN UNINCORPORATED BUENA VISTA COUNTY, IOWA

WHEREAS, on July 15, 2019, by Resolution No. 04-R-2019-2020, the City Council of Storm Lake, Iowa duly resolved that the applications for voluntary annexation received from the owners of real estate, identified below as Parcel A and Parcel B, requesting that the City voluntarily annex the real estate, be set down for hearing on September 16, 2019 at 5:00 P.M., in the Council Chambers at City Hall. The real estate generally is adjacent to the eastern boundary of the City of Storm Lake, located on the east side of Radio Road north of Expansion Boulevard. The owners of the real estate and descriptions of the real estate are as follows:

Parcel A, formerly identified for taxation purposes as part of Parcel Numbers 14-01-301-001 and 14-01-326-002, but now identified for taxation purposes as Parcel Numbers 14-01-301-002 and 14-01-326-004, having an area of 62.48 acres, owned by Patrick L. Sand, and legally described as:

A TRACT OF LAND LOCATED IN THE SOUTHWEST QUARTER (SW¼) OF SECTION 1, TOWNSHIP 90 NORTH, RANGE 37 WEST OF THE 5TH P.M., BUENA VISTA COUNTY, IOWA, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

Commencing at the Northeast (NE) corner of the Southwest Quarter (SW¼) of said Section 1; thence South 00°08'18" East, along the East line of said Southwest Quarter (SW¼), 131.94 Feet to the Point of Beginning. Thence continuing South 00° 08' 18" East, along said East line, 798.82 Feet; thence South 74° 10' 45" West, 456.34 Feet; thence South 00° 08' 18" East, 120.00 Feet to the North line of Block One (1), Industrial Park Addition to Storm Lake; thence North 89° 35' 28" West, along said North line 2201.55 Feet to the West line of the Southwest Quarter (SW¼); thence North 00° 09' 20" West, along said West line, 1075.76 Feet to the South line of the North Eight (8) acres of the Southwest Quarter (SW¼); thence South 88° 57' 13" East, along said South line, 2641.68 Feet to the Point of Beginning.

Hereafter known as Lot F in Section 1, Township 90 North, Range 37 West of the 5th P.M., Buena Vista, Iowa.

Tract contains 62.48 acres and is subject to all easements of record; and

Parcel B, identified for taxation purposes as Parcel Number 14-01-326-003, having an area of 1.85 acres, owned by the City of Storm Lake, Iowa, and legally described as:

A TRACT OF LAND IN PART OF THE NORTHEAST QUARTER OF THE SOUTHWEST QUARTER (NE1/4 SW1/4) OF SECTION 1, TOWNSHIP 90 NORTH, RANGE 37 WEST OF THE 5TH P.M., BUENA VISTA COUNTY, IOWA, AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

Beginning at the Northeast (NE) corner of Lot Six (6), Block One (1), Industrial Park Addition to the City of Storm Lake; thence North 89°48'44" West, along the North line of said Block One (1) 439.36 Feet; thence North 00°21'07" West, 120.00 Feet; thence North 73°58'16" East, 456.31 Feet to the Northwest (NW) corner of Lot C of Lot B of said Section 1; thence South 00°21'07" East, along the West line of said Lot C of Lot B, 247.44 Feet to the point of beginning.

Tract contains 1.85 acres and is subject to all easements of record.

WHEREAS, the western boundary of Parcel A proposed to be annexed adjoins Radio Road, a Buena Vista County, Iowa road;

WHEREAS, that part of the Radio Road right-of-way that adjoins and lies between the western boundary of Parcel A described above and the centerline of Radio Road should be included with the real estate the applicants seek to annex in the territory to be annexed pursuant to the applications for voluntary annexation;

WHEREAS, the composite legal description of the entire territory proposed to be annexed, including the part of the Radio Road right-of-way specified above, is attached as Exhibit "A," a map of the territory proposed to be annexed showing its boundary in relationship to the adjoining boundary of the City of Storm Lake, Iowa and adjacent land and landowners is attached as Exhibit "B," and a map of the of the territory proposed to be annexed showing its boundary in relationship to the existing City of Storm Lake boundaries and to the existing City of Lakeside boundaries is attached as Exhibit "C;"

WHEREAS, the territory proposed to be annexed adjoins the eastern boundary of the City of Storm Lake and is outside the boundaries of any other city;

WHEREAS, after timely notice to the Buena Vista County, Iowa Board of Supervisors and the Hayes Township Trustees, a consultation meeting was held on August 1, 2019, attended by City Manager Keri Navratil, Assistant City Manager David Derragon, City Clerk Mayra A. Martinez, City Attorney Philip E. Havens, and Buena Vista County Supervisor Kelly Snyder. No Hayes Township Trustees attended.

WHEREAS, the Buena Vista County Auditor has been provided the legal descriptions of the real estate proposed to be annexed, and the list of the titleholders of such real estate and of all adjoining land, and has confirmed in writing that such names and legal descriptions are accurate and complete;

WHEREAS, the Buena Vista County Board of Supervisors did not adopt a resolution within thirty days after the consultation meeting, stating whether or not it supports the applications for annexation or whether it takes no position in support of or against this 100% voluntary annexation; however, by motion passed July 30, 2019, such Board did vote to take no position in support of or against the voluntary annexation;

WHEREAS, due notice of said hearing was published in the Storm Lake Times on August 23, 2019, as provided by law, setting forth the time and place for hearing on said proposed annexation;

WHEREAS, due notice of said hearing was sent by certified or regular mail on August 26, 2019, to all affected utilities, to the City of Lakeside, Iowa (the only city other than the City of Storm Lake located within two miles of the real estate proposed to be annexed), to the Board of Supervisors of Buena Vista County, Iowa, to the County Attorney of Buena Vista County, Iowa, to the Chairperson of the Board of Supervisors of Buena Vista County, Iowa, to the Attorney General of the State of Iowa, to the Iowa Department of Transportation, to Northwest

Iowa Planning and Development Commission, and to the owners of land adjoining the territory proposed to be annexed, as required by Section 368.5 and 368.7 of the Iowa Code;

WHEREAS, in accordance with said notices, those interested in the annexation, both for and against, were given opportunity to be heard with respect thereto and have presented their views to the City Council and that hearing was closed September 16, 2019;

WHEREAS, more than three business days have elapsed since the September 16, 2019 hearing on the proposed voluntary annexation and neither applicant has withdrawn the applicant's consent to the annexation; and

WHEREAS, the said notices also gave notice that, if the City Council approves the annexation of the territory described on attached Exhibit "A," the City Council would consider making the annexed territory, with an estimated population of zero persons, part of the Storm Lake 1st Voting Precinct.

NOW, THEREFORE, be it resolved by the City Council of the City of Storm Lake, Iowa as follows:

1. The annexation of the territory described on attached Exhibit "A" is consistent with the City's long range plans for the area, and is hereby approved.

2. The City Clerk, without delay, is hereby authorized and directed to forward to the City Attorney for filing with the City Development Board a certified copy of this resolution with Exhibits "A," "B," and "C" and of the affidavit of publication of the public notice of the hearing on this proposed annexation.

3. The City Attorney is hereby authorized and directed to seek approval of this 100% voluntary annexation, in its entirety and each part thereof, by the City Development Board in accordance with the procedures established by Iowa Code Chapter 368.

4. The real estate described on attached Exhibit "A" is, for purposes of Iowa Code Section 368.24 and all other purposes, proclaimed annexed to the City of Storm Lake, Iowa, subject, however, to approval by the City Development Board established under Chapter 368 of the Code of Iowa, and effective when such Board has filed and recorded copies of applicable portions of the proceedings as required by Iowa Code Section 368.20, subsection 1, paragraph "b."

5. At such time as the territory described on attached Exhibit "A" is effectively annexed, the annexed territory, with an estimated population of zero persons, is made part of the Storm Lake 1st Voting Precinct.

Passed and approved this 7th day of October, 2019.

Michael Porsch, Mayor

ATTEST:

Mayra A. Martinez, City Clerk

EXHIBIT "A"

COMPOSITE LEGAL DESCRIPTION OF TERRITORY APPROVED FOR ANNEXATION

A TRACT OF LAND LOCATED IN THE SOUTHWEST QUARTER (SW¼) OF SECTION 1, TOWNSHIP 90 NORTH, RANGE 37 WEST OF THE 5TH P.M., BUENA VISTA COUNTY, IOWA, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

Commencing at the Northeast (NE) corner of the Southwest Quarter (SW¼) of said Section 1; thence South 00°08'18" East, along the East line of said Southwest Quarter (SW¼), 131.94 Feet to the Point of Beginning. Thence continuing South 00° 08' 18" East, along said East line, 798.82 Feet; thence South 74° 10' 45" West, 456.34 Feet; thence South 00° 08' 18" East, 120.00 Feet to the North line of Block One (1), Industrial Park Addition to Storm Lake; thence North

89° 35' 28" West, along said North line 2201.55 Feet to the West line of the Southwest Quarter (SW¼); thence North 00° 09' 20" West, along said West line, 1075.76 Feet to the South line of the North Eight (8) acres of the Southwest Quarter (SW¼); thence South 88° 57' 13" East, along said South line, 2641.68 Feet to the Point of Beginning.

Hereafter known as Lot F in Section 1, Township 90 North, Range 37 West of the 5th P.M., Buena Vista, Iowa.

Tract contains 62.48 acres and is subject to all easements of record;

AND

That part of the Radio Road right-of-way that adjoins and lies between the western boundary of said **Lot F** and the centerline of Radio Road;

AND

A TRACT OF LAND IN PART OF THE NORTHEAST QUARTER OF THE SOUTHWEST QUARTER (NE¼ SW¼) OF SECTION 1, TOWNSHIP 90 NORTH, RANGE 37 WEST OF THE 5TH P.M., BUENA VISTA COUNTY, IOWA, AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

Beginning at the Northeast (NE) corner of Lot Six (6), Block One (1), Industrial Park Addition to the City of Storm Lake; thence North 89°48'44" West, along the North line of said Block One (1) 439.36 Feet; thence North 00°21'07" West, 120.00 Feet; thence North 73°58'16" East, 456.31 Feet to the Northwest (NW) corner of Lot C of Lot B of said Section 1; thence South 00°21'07" East, along the West line of said Lot C of Lot B, 247.44 Feet to the point of beginning.

Tract contains 1.85 acres and is subject to all easements of record.

Exhibit "B"

Annexation Area Proposed by Patrick L Sand and City of Storm Lake in Reference to Adjacent Parcels Not in City Limits



Legend

- City of Storm Lake
- Patrick L Sand
- City of Storm Lake
- W.M. Petty
- Carolyn S. Hopley, Trustee of the Carolyn S. Hopley Trust U/A dtd 1-24-83, and Citizens First National Bank, Trustee of the 2014 Annette Kitchen Trust

0 524 Feet

PARCEL

A

C

D

OWNER
 Patrick L Sand
 Carolyn S. Hopley, Trustee of the Carolyn S. Hopley Trust U/A dtd 1-24-83, and Citizens First National Bank, Trustee of the 2014 Annette Kitchen Trust

VOLUNTARY INVOLUNTARY ADJACENT

X

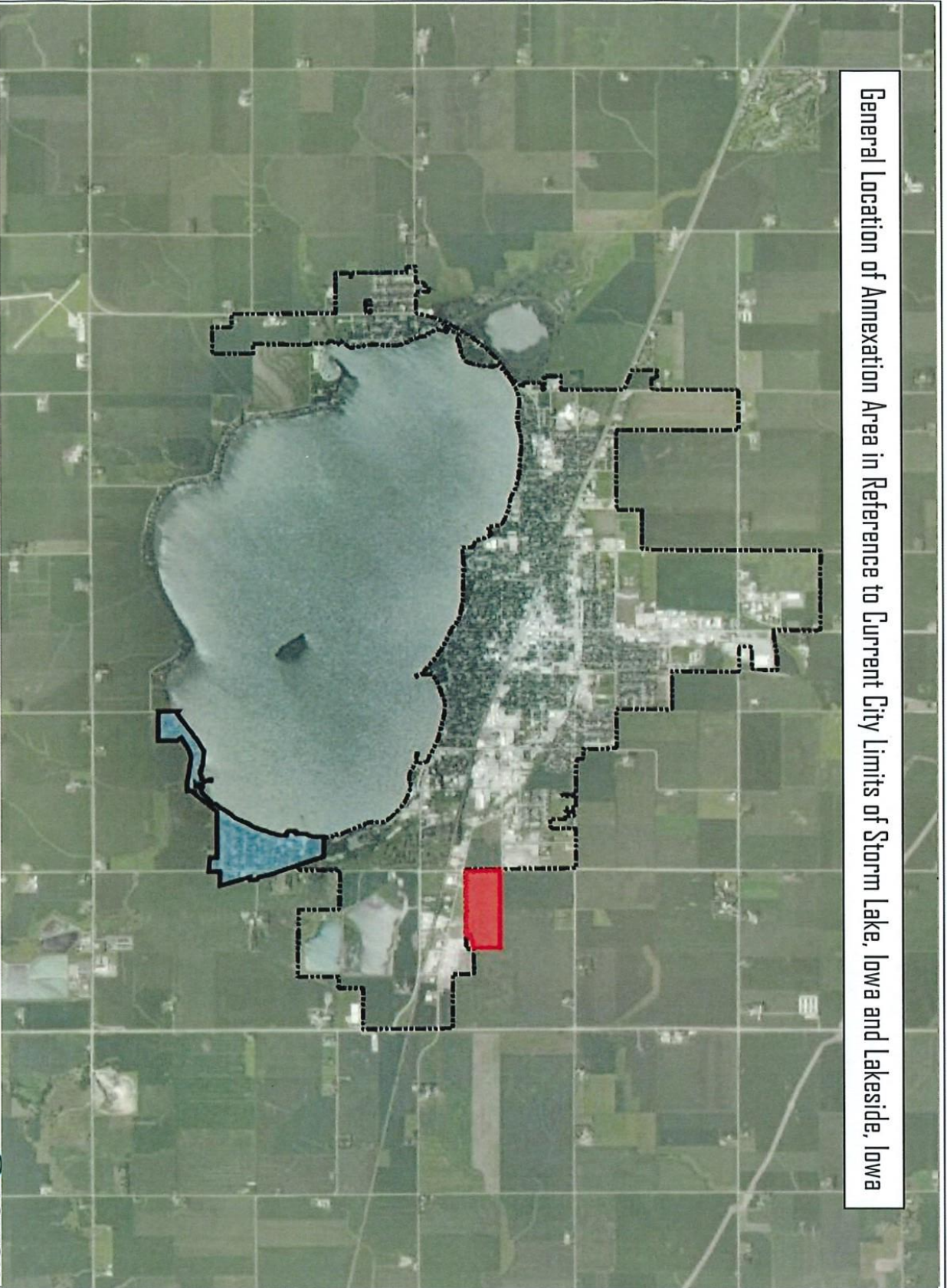
X



Disclaimer:
 This drawing is a preliminary map and not a final map. It is intended to provide a general overview of the proposed annexation area. The City of Storm Lake is not responsible for any inaccuracies or omissions in this drawing.



General Location of Annexation Area in Reference to Current City Limits of Storm Lake, Iowa and Lakeside, Iowa



0 4.213 Feet
© Bolton & Menk, Inc. Web GIS 5/29/2019 4:00 PM



- Legend**
- City Limits of Storm Lake
 - Annexation Area Proposed by Patrick Sand and City of Storm Lake
 - Lakeside City Limits

Disclaimer: This is a preliminary map. It is not intended to be used as a legal document. It is a representation of the current status of the area shown, and is not intended to be used as a legal document. The City of Storm Lake is not responsible for any inaccuracies or omissions.



Storm Lake Industrial Park Urban Renewal Plan – Moved by Council Member Ibarra to adopt Resolution No. 33-R-2019-2020 setting dates of a consultation meeting on October 14, 2019 at 1:00 p.m. and a Public Hearing on November 4, 2019 at 5:00 pm at City Hall on the proposed Amendment No. 7 to the Storm Lake Industrial Park Urban Renewal plan in the City of Storm Lake, State of Iowa. Seconded by Council Member McKinney. Roll Call Vote: All ayes with Council Member Engelmann absent. Motion carried.

RESOLUTION NO. 33-R-2019-2020

RESOLUTION SETTING DATES OF A CONSULTATION AND A PUBLIC HEARING ON A PROPOSED AMENDMENT NO. 7 TO THE STORM LAKE INDUSTRIAL PARK URBAN RENEWAL PLAN IN THE CITY OF STORM LAKE, STATE OF IOWA

WHEREAS, by Resolution No. 33-R-91-92, adopted September 16, 1991, this Council found and determined that certain areas located within the City are eligible and should be designated as an urban renewal area under Iowa law, and approved and adopted the Storm Lake Industrial Park Urban Renewal Plan (the "Plan" or "Urban Renewal Plan") for the Storm Lake Industrial Park Urban Renewal Area (the "Area" or "Urban Renewal Area") described therein, which Plan is on file in the office of the Recorder of Buena Vista County; and

WHEREAS, the Plan has subsequently been amended six times, lastly by the adoption of Amendment No. 6 to the Plan, adopted by Resolution No. 75-R-2016-2017, adopted February 20, 2017; and

WHEREAS, this Urban Renewal Area currently includes and consists of:

ORIGINAL AREA

A part of the South Half (S1/2) of Section One (1), Township Ninety North (T 90 N), Range Thirty Seven West (R 37 W) of the Fifth Principal Meridian (5th P.M.) lying North of the Illinois Central Railroad, and a part of the Northeast Quarter (NE¹/₄) of Section (12), Township Ninety North (T 90 N), Range Thirty Seven West (R 37 W) of the Fifth Principal Meridian (5th P.M.) lying North of the Illinois Central Railroad, more particularly described as follows:

Commencing at the Northwest Corner of the Southwest Quarter (SW¹/₄) Section One (1), Township Ninety North (T 90 N), Range Thirty Seven West (R 37 W) of the Fifth Principal Meridian (5th P.M.), thence 00°32' East along the West Line of said Southwest Quarter (SW¹/₄) a distance of One Thousand Two Hundred Seven and Seven Tenths Feet (1,207.70') to the Point of Beginning; thence North 90°00' East a distance of Two Thousand Six Hundred Forty Two and Six Hundredths Feet (2,642.06') to the North-South Centerline of said Section One (1); thence South 00°34' East along the North-South Centerline of said Section One (1), a distance of Four Hundred Seven and Eighteen Hundredths Feet (407.18'); thence

North 90°00' East a distance of Two Thousand Six Hundred Thirty Eight and Seventy Two Hundredths Feet (2,638.72') to the East Line of said Section One (1); thence South 00°31' East along the East Line of said Section (1) a distance of One Thousand Eighty Seven and Seven Tenths Feet (1,087.7') to the Southeast Corner of said Section One (1), said Point also being the Northeast Corner of Section Twelve (12), Township Ninety North (T 90 N), Range Thirty Seven West (R 37 W) of the Fifth Principal Meridian (5th P.M.); thence South 00°20'20" East along the East Line of said Northeast Quarter (NE¼) Section Twelve (12) a distance of Two Hundred Sixty Six and Five Hundredths Feet (266.05') to the North Right of Way Line of the Illinois Central Railroad; thence North 77°07" West along the North Right of Way Line of said Railroad a distance of Five Thousand Four Hundred Twenty Seven and Seven Tenths Feet (5,427.7') to the West Line of the Southwest Quarter (SW¼) said Section One (1); thence North 00° 32' West along the West Line of said Section (1) a distance of Five Hundred Fifty and Seventy One Hundredths Feet (550.71') to the Point of Beginning.

The above parcel contains 115.46 acres in total

MCS Industrial Addition to Storm Lake, Iowa

AND

A PART OF THE SOUTH EAST QUARTER (SE¼) OF SECTION 2, TOWNSHIP 90 NORTH, RANGE 37 WEST OF THE 5TH P.M., BUENA VISTA COUNTY, IOWA AND BEING MORE FULLY DESCRIBED AS FOLLOWS:

Beginning at the Northeast (NE) corner of the Southeast Quarter (SE¼) of said Section 2; thence South 89°45'20" West along the North line of said Southeast Quarter (SE¼), a distance of 2,131.17 feet to a point on the Easterly right of way line of the Chicago, Milwaukee, St. Paul and Pacific Railroad; thence Southerly along the Easterly right of way line of said railroad on a curve whose short chord bearings are as follows: South 29°31'40" East, a distance of 57.05 feet; thence South 23°07'17" East, a distance of 601.83 feet; thence South 16°32'54" East, a distance of 56.08 feet; thence continuing along the Easterly line of said railroad right of way South 15°59'20" East, a distance of 675.12 feet to a point on the Northerly line of the Illinois Central Railroad right of way; thence South 89°44'44" East, along the Northerly line of said railroad, a distance of 824.23 feet; thence South 1°56'40" West, a distance of 238.22 feet; thence South 76°34'40" East, a distance of 872.88 feet to a point on the East line of said Southeast Quarter (SE¼); thence North along the East line of said Southeast Quarter (SE¼) a distance of 1,759.60 feet to the point of beginning containing 62.91 acres and subject to all easements of record.

The East line of the Southeast Quarter (SE¼) of said Section 2 is assumed to bear due North and South in the above description.

AMENDMENT NO. 1 AREA

All of the property within the corporate limits that is located South of Richland Avenue and East of Flint Drove. The area also includes the full right-of-way of all streets forming the boundary.

AMENDMENT NO. 2 AREA

A parcel in Buena Vista County, Iowa beginning at a point which is at the center of the intersection of the Canadian National Railroad right of way and Radio Road in Storm Lake, Iowa; thence South along the center line of Radio Road to the south right of way line of Highway 7; thence continuing South along the centerline of the County Road just West of the Northwest Quarter (NW¼) of Section Twelve (12), Township Ninety (90) North, Range Thirty-Seven (37) West of the 5th P.M. to a point that the center line intersects with the South line of the Northwest Quarter (NW¼) of Section Twelve (12), Township Ninety (90) North, Range Thirty-Seven (37) West of the 5th P.M.; thence East along a South line of the Northwest Quarter (NW¼), Section Twelve (12), Township Ninety (90) North, Range Thirty-Seven (37) West of the 5th P.M. to the Southeast corner of the Northwest Quarter (NW¼) of Section Twelve (12), Township Ninety (90) North, Range Thirty-Seven (37) West of the 5th P.M.; thence North along the East line of the Northwest Quarter (NW¼) of Section Twelve (12), Township Ninety (90) North, Range Thirty-Seven (37) West of the 5th P.M. to the point where that East line intersects with the South line of Highway 7; thence East along the South line of Highway 7 to the point where it intersects with the center line of Gilbert Street extended South across Highway 7; thence North along the center line of Gilbert Street to the point where that line intersects with the center line of the Canadian National Railroad right of way; thence Northwesterly along the center line of the Canadian National Railroad right of way to the point of beginning.

AMENDMENT NO. 3 AREA

A tract of land located in the Southwest Quarter of the Southeast Quarter (SW¼SE¼) of Section 1, Township 90 North, Range 37 West of the 5th P.M., Buena Vista County, Iowa, and being more particularly described as follows:

Beginning at the Northwest (NW) Corner of Lot Seven (7), Block One (1), of Industrial Park Addition to Storm Lake; thence on a previously recorded bearing of North 90°00'00" East along the North line of said Lot Seven (7), 581.78 Feet to the West line of the East One Hundred Seventy-Five Feet (175') of said Lot Seven (7); thence North 00°10'50" West along the Northern extension of said West line of the East One Hundred Seventy-Five Feet (175'), 186.90 feet; thence South 90°00'00" West, 583.58 Feet to the East line of Lot Six (6), of said Block One (1); thence South 00°43'45" East, along said East line, 186.90 Feet to the point of beginning.

Tract contains 2.50 acres and is subject to all easements of record.

and

A tract of land located in the Southeast Quarter (SE¼) of Section 1, Township 90 North, Range 37 West of the 5th P.M., Buena Vista County, Iowa, and being more particularly described as follows: Commencing at the Northwest (NW) Corner of the Southeast Quarter (SE¼) of said Section 1; thence on a true bearing of South 00°21'07" East along the West line of said Southeast Quarter (SE¼), 930.76 Feet to the point of beginning; thence South 89°10'02" East 838.14 Feet; thence South 00°21'07" East, 645.29 Feet to the North line of the Industrial Park Addition to the City of Storm Lake; thence North 89°50'14" West, along said North line, 255.00 Feet; thence North 00°02'17" East, 186.90 Feet; thence North 89°47'21" West, 583.58 Feet to the East line of Lot Six (6), Block One (1) of said Industrial Park Addition; thence North 00°32'05" West, along said East line, 220.28 Feet to the Northeast (NE) Corner of said Lot Six (6); thence North 00°21'07" West, along the West line of the Southeast Quarter (SE¼), 247.44 Feet to the point of beginning. Hereafter referred to as Lot C of Lot B in Section 1, Township 90 North, Range 37 West of the 5th P.M., Buena Vista County, Iowa.

Tract contains 10.00 acres and is subject to all easements of record; and

AMENDMENT NO. 4

No land added or removed.

AMENDMENT NO. 5

No land added or removed.

AMENDMENT NO. 6

No land added or removed.

WHEREAS, City staff has caused there to be prepared a form of Amendment No. 7 to the Plan ("Amendment No. 7" or "Amendment"), a copy of which has been placed on file for public inspection in the office of the City Clerk and which is incorporated herein by reference, the purpose of which is to add land to the Urban Renewal Area and to authorize additional projects to be undertaken within the Urban Renewal Area; and

WHEREAS, it is desirable that the area be redeveloped as part of the overall redevelopment covered by the Plan, as amended; and

WHEREAS, this proposed Amendment No. 7 adds land to the Urban Renewal Area, as follows:

A TRACT OF LAND LOCATED IN THE SOUTHWEST QUARTER (SW ¼) OF SECTION 1 TOWNSHIP 90 NORTH, RANGE 37 WEST OF THE 5TH P.M., BUENA VISTA COUNTY, IOWA, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

Commencing at the Northeast (NE) corner of the Southwest Quarter (SW ¼) of said Section 1; Thence South 00° 08' 18" East, along the East line of said Southwest Quarter (SW ¼), 131.94 feet to the Point of Beginning. Thence continuing South 00° 08' 18" East, along said West line, 798.82 feet; Thence South 74° 10' 45" West, 456.34 feet; Thence South 00° 08' 18" East, 120.00 feet to the North line of Block One (1), Industrial Park Addition to Storm Lake; Thence North 89° 35' 28" West, along said North line, 2201.55 feet to the West line of the Southwest Quarter (SW ¼); Thence North 00° 09' 20" West, along said West line, 1075.76 feet to the South line of the North eight (8) acres of the Southwest Quarter (SW ¼); Thence South 88° 57' 13" East, along said South line, 2641.68 feet to the Point of Beginning.

Hereafter known as Lot F in Section 1 Township 90 North, Range 37 West of the 5th P.M., Buena Vista, Iowa.

Tract contains 62.48 acres and is subject to all easements of record.

WHEREAS, the land proposed to be added to the Urban Renewal Area includes land classified as agricultural land and written permission of the current owner will be obtained; and

WHEREAS, the land proposed to be added to the Urban Renewal Area is outside the corporate limits of, but within two miles of, the City, and the City will seek consent from Buena Vista County in the form of a joint agreement allowing the City to operate within the Urban Renewal Area, as proposed to be amended; and

WHEREAS, the Iowa statutes require the City Council to notify all affected taxing entities of the consideration being given to the proposed Amendment No. 7 and to hold a consultation with such taxing entities with respect thereto, and further provides that the designated representative of each affected taxing entity may attend the consultation and make written recommendations for modifications to the proposed division of revenue included as a part thereof, to which the City shall submit written responses as provided in Section 403.5, Code of Iowa, as amended; and

WHEREAS, the Iowa statutes further require the City Council to hold a public hearing on the proposed Amendment No. 7 subsequent to notice thereof by publication in a newspaper having general circulation within the City, which notice shall describe the time, date, place and purpose of the hearing, shall generally identify the urban renewal area covered by the Amendment and shall outline the general scope of the urban renewal project under consideration, with a copy of the notice also being mailed to each affected taxing entity.

NOW THEREFORE, BE IT RESOLVED, BY THE CITY COUNCIL OF THE CITY OF STORM LAKE, STATE OF IOWA:

Section 1. That the consultation on the proposed Amendment No. 7 required by Section 403.5(2), Code of Iowa, as amended, shall be held on the October 14, 2019, in the Council Chambers, City Hall, 620 Erie Street, Storm Lake, Iowa, at 1:00 P.M., and the City Manager, or her delegate, is hereby appointed to serve as the designated representative of the City for

purposes of conducting the consultation, receiving any recommendations that may be made with respect thereto and responding to the same in accordance with Section 403.5(2), Code of Iowa.

Section 2. That the City Clerk is authorized and directed to cause a notice of such consultation to be sent by regular mail to all affected taxing entities, as defined in Section 403.17(1), Code of Iowa, along with a copy of this Resolution and the proposed Amendment No. 7, the notice to be in substantially the following form:

NOTICE OF A CONSULTATION TO BE HELD BETWEEN
THE CITY OF STORM LAKE, STATE OF IOWA AND ALL
AFFECTED TAXING ENTITIES CONCERNING THE
PROPOSED AMENDMENT NO. 7 TO THE STORM LAKE
INDUSTRIAL PARK URBAN RENEWAL PLAN FOR THE
CITY OF STORM LAKE, STATE OF IOWA

The City of Storm Lake, State of Iowa will hold a consultation with all affected taxing entities, as defined in Section 403.17(1), Code of Iowa, as amended, commencing at 1:00 P.M. on October 14, 2019, in the Council Chambers, City Hall, 620 Erie Street, Storm Lake, Iowa concerning a proposed Amendment No. 7 to the Storm Lake Industrial Park Urban Renewal Plan for the Storm Lake Industrial Park Urban Renewal Area, a copy of which is attached hereto.

Each affected taxing entity may appoint a representative to attend the consultation. The consultation may include a discussion of the estimated growth in valuation of taxable property included in the Urban Renewal Area, the fiscal impact of the division of revenue on the affected taxing entities, the estimated impact on the provision of services by each of the affected taxing entities in the Urban Renewal Area, and the duration of any bond issuance included in the Amendment.

The designated representative of any affected taxing entity may make written recommendations for modifications to the proposed division of revenue no later than seven days following the date of the consultation. The City Manager, or her delegate, as the designated representative of the City of Storm Lake, State of Iowa, shall submit a written response to the affected taxing entity, no later than seven days prior to the public hearing on the proposed Amendment No. 7 to the Storm Lake Industrial Park Urban Renewal Plan, addressing any recommendations made by that entity for modification to the proposed division of revenue.

This notice is given by order of the City Council of the City of Storm Lake, State of Iowa, as provided by Section 403.5, Code of Iowa, as amended.

Dated this _____ day of _____, 2019.

City Clerk, City of Storm Lake, State of Iowa

(End of Notice)

Section 3. That a public hearing shall be held on the proposed Amendment No. 7 before the City Council at its meeting which commences at 5:00 P.M. on November 4, 2019, in the Council Chambers, City Hall, 620 Erie Street, Storm Lake, Iowa.

Section 4. That the City Clerk is authorized and directed to publish notice of this public hearing in the Storm Lake Times, once on a date not less than four (4) nor more than twenty (20) days before the date of the public hearing, and to mail a copy of the notice by ordinary mail to each affected taxing entity, such notice in each case to be in substantially the following form:

(One publication required)

NOTICE OF PUBLIC HEARING TO CONSIDER APPROVAL
OF A PROPOSED AMENDMENT NO. 7 TO THE STORM
LAKE INDUSTRIAL PARK URBAN RENEWAL PLAN FOR
AN URBAN RENEWAL AREA IN THE CITY OF STORM
LAKE, STATE OF IOWA

The City Council of the City of Storm Lake, State of Iowa, will hold a public hearing before itself at its meeting which commences at 5:00 P.M. on November 4, 2019 in the Council Chambers, City Hall, 620 Erie Street, Storm Lake, Iowa, to consider adoption of a proposed Amendment No. 7 to the Storm Lake Industrial Park Urban Renewal Plan (the "Amendment") concerning an Urban Renewal Area in the City of Storm Lake, State of Iowa, which Amendment proposes to add the land legally described as follows to the Urban Renewal Area:

**A TRACT OF LAND LOCATED IN THE SOUTHWEST QUARTER (SW
¼) OF SECTION 1 TOWNSHIP 90 NORTH, RANGE 37 WEST OF THE
5TH P.M., BUENA VISTA COUNTY, IOWA, BEING MORE
PARTICULARLY DESCRIBED AS FOLLOWS:**

Commencing at the Northeast (NE) corner of the Southwest Quarter (SW ¼) of said Section 1; Thence South 00° 08' 18" East, along the East line of said Southwest Quarter (SW ¼), 131.94 feet to the Point of Beginning. Thence continuing South 00° 08' 18" East, along said West line, 798.82 feet; Thence South 74° 10' 45" West, 456.34 feet; Thence South 00° 08' 18" East, 120.00 feet to the North line of Block One (1), Industrial Park Addition to Storm Lake; Thence North 89° 35' 28" West, along said North line, 2201.55 feet to the West line of the Southwest Quarter (SW ¼); Thence North 00° 09' 20" West, along said West line, 1075.76 feet to the South line of the North eight (8) acres of the Southwest Quarter (SW ¼); Thence South 88° 57' 13" East, along said South line, 2641.68 feet to the Point of Beginning.

Hereafter known as Lot F in Section 1 Township 90 North, Range 37 West of the 5th P.M., Buena Vista, Iowa.

Tract contains 62.48 acres and is subject to all easements of record.

A copy of the Amendment is on file for public inspection in the office of the City Clerk, City Hall, City of Storm Lake, Iowa.

The City of Storm Lake, State of Iowa is the local public agency which, if such Amendment is approved, shall undertake the urban renewal activities described in such Amendment.

The general scope of the urban renewal activities under consideration in the Amendment is to promote the growth and retention of qualified industries and businesses in the Amendment No. 4 Area through various public purpose and special financing activities outlined in the Amendment. To accomplish the objectives of the Amendment, and to encourage the further economic development of the Amendment No. 4 Area, the Amendment provides that such special financing activities may include, but not be limited to, the making of loans or grants of public funds to private entities under Chapter 15A of the Code of Iowa. The City also may reimburse or directly undertake the installation, construction and reconstruction of substantial public improvements, including, but not limited to, street, water, sanitary sewer, storm sewer or other public improvements. The Amendment provides that the City may issue bonds or use available funds for purposes allowed by the Plan, as amended, and that tax increment reimbursement of the costs of urban renewal projects may be sought if and to the extent incurred by the City. The Amendment initially proposes specific public infrastructure or site improvements to be undertaken by the City, and provides that the Amendment may be amended from time to time.

The proposed Amendment No. 7 would add land to the Urban Renewal Area and authorize additional projects to be undertaken within the Urban Renewal Area.

Other provisions of the Plan not affected by the Amendment would remain in full force and effect.

Any person or organization desiring to be heard shall be afforded an opportunity to be heard at such hearing.

This notice is given by order of the City Council of the City of Storm Lake, State of Iowa, as provided by Section 403.5, Code of Iowa.

Dated this _____ day of _____, 2019.

City Clerk, City of Storm Lake, State of Iowa

(End of Notice)

Section 5. That the proposed Amendment No. 7, attached hereto as Exhibit 1, for the Urban Renewal Area described therein is hereby officially declared to be the proposed Amendment No. 7 referred to in the notices for purposes of such consultation and hearing and that a copy of the Amendment shall be placed on file in the office of the City Clerk.

PASSED AND APPROVED this 7th day of October, 2019.

Mayor

ATTEST:

City Clerk

Label the Amendment as Exhibit 1 (with all exhibits) and attach it to this Resolution.

EXHIBIT 1

STORM LAKE INDUSTRIAL PARK URBAN RENEWAL PLAN

AMENDMENT NO. 7

CITY OF STORM LAKE, IOWA

Original Area Adopted – 1991

Amendment No. 1 – 2004

Amendment No. 2 – 2010

Amendment No. 3 – 2013

Amendment No. 4 – 2015

Amendment No. 5 – 2016

Amendment No. 6 – 2017

Amendment No. 7 – 2019

LOCAL GOVERNMENT PROFESSIONAL SERVICES, INC.

DBA SIMMERING-CORY

AMENDMENT NO. 7

to

STORM LAKE INDUSTRIAL PARK

URBAN RENEWAL PLAN

CITY OF STORM LAKE, IOWA

The Storm Lake Industrial Park Urban Renewal Plan (“Plan”) for the Storm Lake Industrial Park Urban Renewal Area (“Area” or “Urban Renewal Area”), adopted in 1991, and amended in 2004, 2010, 2013, 2015, 2016, and 2017 is being further amended to, among other things, add land to the Urban Renewal Area and to authorize projects to be undertaken within the Urban Renewal Area by this Amendment No. 7 (“Amendment”).

The original Storm Lake Industrial Park Urban Renewal Area and each of its amendment areas may be referred to as Subareas in this Amendment. The property added by this Amendment No. 7 is called the Amendment No. 7 Subarea. The Subareas make up the Urban Renewal Area.

This Storm Lake Industrial Park Urban Renewal Plan, Amendment No. 7 repeats much of the Storm Lake Industrial Park Urban Renewal Plan Amendment No. 6, adopted in 2017. The material changes by this Amendment include the following:

- Updating the Project Objectives section (page 3);
- Updating the Project Activities section (page 4);
- Updating the Previously Authorized Urban Renewal Projects section (page 6);
- Adding new Eligible Urban Renewal Projects section (page 7);
- Updating the Financial Information section (page 10);
- Updating the Development Plan section (Page 11);
- Adding an Agricultural Land section (page 12);
- Adding a Joint City/County Agreement section (page 13);
- Adding land described as Amendment No. 7 Subarea; such Amendment No. 7 Subarea is described in Exhibit “A” (page 15) and illustrated in Exhibit “B” (page 16);
- Updating Exhibit “C,” a map of the entire Area, as amended (page 17);
- Adding Exhibit “D,” an Agricultural Land Owner Consent Agreement (page 18); and
- Adding Exhibit “E,” a Joint City/County Agreement (page 21).

Except as modified by this Amendment, the provisions of the original Storm Lake Industrial Park Urban Renewal Plan, as previously amended, are hereby ratified, confirmed, and approved and shall remain in full force and effect as provided herein. In case of any conflict or uncertainty, the terms of this Amendment shall control.

DESCRIPTION OF THE URBAN RENEWAL AREA

A legal description of the property being added to the Urban Renewal Area, the Amendment No. 7 Subarea, is attached hereto as Exhibit “A.” A map of the land being added by Amendment No. 7 is attached hereto as Exhibit “B.” A map of the entire Urban Renewal Area, as amended, is attached hereto as Exhibit “C.”

AREA DESIGNATION

The Urban Renewal Area previously has been designated as a mixed area for the remediation of blight and promotion of economic development (commercial and industrial) activities. The Amendment No. 7 Subarea contains land that is assessed as agricultural land, which land is not a “blighted area” as defined in *Code of Iowa* Section 403.17(5). However, with respect to the Amendment No. 7 Subarea, the City hereby finds this Subarea appropriate for economic development (commercial and industrial) activities and is including the Amendment No. 7 Subarea in the Urban Renewal Area as only an economic development area. Together these findings continue to support the designation of the entire Urban Renewal Area, excluding the Amendment No. 7 Subarea, which is only designated as an economic development area, as a mixed area appropriate for the remediation of blight and the promotion of economic development (commercial and industrial) activities.

PROJECT OBJECTIVES

Renewal activities are designed to provide opportunities and incentives for community development purposes including new and expanded commercial and industrial development as well as revitalization and alleviation of blighting conditions. More specific objectives include:

1. To achieve a diversified, well balanced economy providing a desirable standard of living, creating job opportunities, and strengthening the tax base.
2. To plan and provide sufficient land for commercial, residential, and industrial development in a manner that is efficient from the standpoint of providing municipal services.
3. To provide for the installation of public works and facilities, which contribute to the revitalization of the Area.
4. To eliminate blighting influences and promote revitalization, through public action and commitment, or by providing incentives to private persons or businesses, to acquire, rehabilitate, renovate, demolish, and/or redevelop existing structures or property.
5. To stimulate through public action and commitment, private investment in residential development as part of blight remediation activities. The City realizes that the availability of affordable, decent, safe, and sanitary housing is important to the overall economic viability of the community.
6. To encourage commercial and industrial growth and expansion through governmental policies which make it economically feasible to do business.
7. To provide a more marketable and attractive investment climate through the use of various federal, state, and local incentives.
8. To stimulate, through public action and commitment, private investment in commercial and industrial expansion.

9. To help develop a sound economic base that will serve as the foundation for future growth and development.
10. To provide facilities offering diversified and expanded recreational opportunities, which will help improve the quality of life and contribute to the overall viability of the community.
11. To achieve a diversified, well-balanced economy providing a desirable standard of living, creating job opportunities, and strengthening the tax base.
12. To enhance the Storm Lake community by fostering an entrepreneurial climate, diversifying the local economy, encouraging opportunities for new businesses, and supporting retention of existing businesses.
13. To provide for the installation and upgrade of public works, infrastructure, including but not limited to, storm water collection and conveyance system, sanitary sewer facilities, water utility infrastructure, pedestrian pathways (sidewalks and trails), roads, and related facilities which alleviate blighting influences and contribute to the sound economic development of the Area.
14. To preserve the health, safety, living environment, general character, and general welfare of the City of Storm Lake, Iowa.
15. To promote development utilizing any other objectives allowed by Chapter 403 of the *Code of Iowa*.

TYPES OF RENEWAL ACTIVITIES

To meet the objectives of this Urban Renewal Plan, as amended, and to encourage the development of the Area, as amended, the City intends to utilize the powers conferred under Chapter 403 and Chapter 15A, *Code of Iowa* including, but not limited to, tax increment financing. Activities may include:

1. To undertake and carry out urban renewal projects through the execution of contracts and other instruments.
2. To provide for the construction of specific site improvements such as grading and site preparation activities, access roads and parking, fencing, utility connections, and related activities.
3. To acquire property through a variety of means (purchase, lease, option, etc.) and to hold, clear, or prepare the property for redevelopment.
4. To dispose of property that has been acquired.
5. To undertake blight remediation activities.

6. To demolish structures and to clear the land for future development so as to revitalize the Area and alleviate blighting conditions.
7. To make loans, forgivable loans, grants, tax rebate payments or other types of grants or incentives to private persons or businesses for economic development, revitalization, or blight remediation purposes, on such terms as may be determined by the City Council.
8. To finance programs which will directly benefit housing conditions and promote the availability of housing in the community.
9. To arrange for or cause to be provided the construction, expansion, or repair of public infrastructure including, but not limited to, streets and sidewalks, traffic lights, pedestrian safety measures, water mains, sanitary sewers, storm sewers, public utilities, bike and walking trails, landscaping, or other recreational facilities and activities in connection with urban renewal project which serve to revitalize the area and alleviate blighting conditions, or promote economic development in the Area.
10. To borrow money and to provide security therefor.
11. To make or have made surveys and plans necessary for the implementation of the Urban Renewal Plan or specific urban renewal projects.
12. To use tax increment financing for a number of purposes, including but not limited to, achieving a more marketable and competitive land offering price and providing for necessary physical improvements and infrastructure.
13. To use tax increment revenues to help leverage grants, loans, or other assistance from state and federal governments (such as providing the local match for such assistance) in support of projects or businesses that advance the objectives of this Plan, as amended.
14. To use any or all other powers granted by the Urban Renewal Act to develop and provide for improved economic conditions for the City of Storm Lake and the State of Iowa.

Nothing herein shall be construed as a limitation on the power of the City to exercise any lawful power granted to the City under Chapter 15, Chapter 15A, Chapter 403, Chapter 427B, or any other provision of the *Code of Iowa* in furtherance of the objectives of this Urban Renewal Plan, as amended.

PREVIOUSLY AUTHORIZED URBAN RENEWAL PROJECTS

Various Urban Renewal Projects were authorized prior to this Amendment No. 7 and are continuing. Such previously authorized urban renewal projects include, but are not limited to:

- Honda Shop Development. This project was added in Amendment No. 2 and is no longer being pursued. As of this Amendment the project is being removed from the list of eligible projects.
- Meridian Manufacturing Development. This project was added in Amendment No. 3 and is no longer being pursued. As of this Amendment the project is being removed from the list of eligible projects.
- Condominium Redevelopment. This project was added in Amendment No. 3 and is being removed from the list of eligible projects. The FB Storm Lake II Condo Development Project authorized in Amendment No. 5 has replaced this project.
- McKenna Drive Water and Sewer. This project was added in Amendment No. 3 and is complete. The City has \$647,637.50 of outstanding certified debt remaining on this project.
- King's Pointe Resort, Project AWAYISIS. This project was added in Amendment No. 3 and is complete. The City has \$18,586,468 in certified debt currently outstanding on this project.
- Gold Wing Drive. This project was added in Amendment No. 3 and has not started as of this Amendment. The City still anticipates that the project will move forward over the next few years. With this Amendment the City is authorizing additional funds for this project. Please see the Eligible Urban Renewal Projects section on page 8.
- Memorial Road Resurfacing. This project was added with Amendment No. 3 and has not started as of this Amendment. The City anticipates that this project will still occur but costs for the project have increased. With this Amendment the City is authorizing additional funds for this project. Please see the Eligible Urban Renewal Projects section on page 9.
- Expansion Boulevard Storm Water Project. This project was added with Amendment No. 3 and as of this Amendment the project has been completed. The City has \$1,027,762 in outstanding debt related to this project.
- Expansion Boulevard Sanitary Sewer Project. This project was added with Amendment No. 3 and as of this Amendment has not yet been started. The City anticipates that this project will still occur but costs for the project have increased. With this Amendment the City is authorizing additional funds for the project. Please see the Eligible Urban Renewal Projects section on page 9.
- Acquisition and Demolition of Dilapidated Structures. This project was identified in Amendment No. 3 and is still ongoing at this time. The City expects to have a continued need for this project in the future. There is currently no outstanding debt that has been certified for this project.
- HWY 7 Development Agreements. This project was identified in Amendment No. 3 and is ongoing. There is no debt currently certified on this project.
- Orton Development, LLC. This project was added in Amendment No. 4 and is being removed from the list of eligible projects. The FB Storm Lake II Condo Development Project authorized in Amendment No. 5 has replaced this project.

- Entrance Roads and Sidewalk Along Sunrise Park Road. This project is underway, and the City anticipates that it will be completed in the next year or two. With this Amendment the City is authorizing additional funds for the project. Please see the Eligible Urban Renewal Projects section on page 9.
- FB Storm Lake II, LLC. This project was added in Amendment No. 5 and is ongoing. The City anticipates the project will continue over the next few years. Currently there is no debt certified on this project.
- King's Pointe Remodel. The City added this project in Amendment No. 6. The project is ongoing and currently the City has outstanding certified debt of \$108,000 for this project. The project will continue over the next few years and additional debt is anticipated.
- Outdoor Waterpark Concrete. The City added this project in Amendment No. 6. The project is still ongoing. Currently the City has no certified debt outstanding on this project. The City anticipates the project will continue over the next few years.
- Memorial Park Storm Water Improvements. This project was added in Amendment No. 6 and still outstanding. There is currently no outstanding debt certified against this project. The City does anticipate that this project will continue.

Collectively, as of the date of this Amendment, certified debt on these projects is approximately \$20,492,565.50. Other previously authorized projects that have not yet begun are still planned as outlined in previous amendments and are expected to add to the amount of certified debt as they are undertaken.

ELIGIBLE URBAN RENEWAL PROJECTS (Amendment No. 7)

Although certain project activities may occur over a period of years, in addition to projects previously authorized in the Plan, as previously amended, the eligible urban renewal projects under this Amendment No. 7 include:

1. Public Improvements.

Project	Estimated Date	Estimated Cost to be Funded by TIF Funds	Rationale
Sanitary Sewer Lining Project	2019-2022	\$400,000	Improvements to the existing sanitary sewer collection system are needed to ensure a consistent and reliable utility by which to transport wastewater to Memorial Lift Station and ultimately the City's wastewater treatment facility. The existing lines are older, and the City believes that lining the pipes at this time can prolong their life while reducing the impacts of inflow and infiltration to the system and businesses within the Area.

Water Line Extensions	2019-2022	\$200,000	To facilitate the future growth of the area, including the proposed project by Tyson Fresh Meats (or a related entity), the City needs to extend water mains to allow the City to service the new facilities and provide an adequate supply of water for fire protection.
Expansion Boulevard Road Improvements	2019-2022	\$700,000	The City anticipates additional heavy truck traffic coming in and out of the new Tyson Fresh Meats (or a related entity) feed mill facility. This project will improve the road surface to better facilitate the increased traffic and heavier loads.
Memorial Lift Station Improvements	2020-2025	\$2,500,000	The City anticipates utilizing available increment to provide for improvements to Memorial Lift Station. It was originally constructed in 1983, and is one of the City's main lift stations responsible for delivering over half of the City's sanitary sewer flow to their treatment plant, including serving the Urban Renewal Area. The lift station is in need of process improvements and rehabilitation of key elements to ensure that it can meet the demand of existing and proposed new developments in the Area.

Project	Estimated Date	Estimated Cost to be Funded by TIF Funds	Rationale
Gold Wing Drive Frontage Road	2020-2026	\$700,000 (In addition to funds previously allocated in Amendment No. 3.)	This project would construct a new frontage road to improve access to and promote the future development of land owned by the City on the south side of HWY 7/Business HWY 71.
Memorial Road Resurfacing Project	2020-2026	\$1,100,000 (In addition to funds previously allocated in	This project will resurface an existing gravel road to a hard surface street more suitable for traffic common to developed areas. Recent developments in the area as well as future projected development will increase traffic on this road and the need for a hard surface

		Amendment No. 3.)	street to eliminate costly maintenance and negative impacts to neighboring businesses.
Expansion Blvd. Sanitary Sewer from Gilbert Street to HWY 71 and along HWY 71.	2020-2030	\$1,800,000 (In addition to funds previously allocated in Amendment No. 3.)	The proposed project will extend municipal sanitary sewer service to the undeveloped portion of the City's industrial park providing for the future development of the area and opening up additional area for future development along HWY 71. The project includes the construction of sanitary sewer collection mains and a lift station.
Sunrise Park Road Entrance Roads and Sidewalk.	2019-2021	\$450,000 (In addition to funds previously allocated in Amendment No. 5.)	The City is providing two-way access on City-owned property to a blight remediation project that will support growth of housing within the community.
Note: It may be that the above costs will be reduced by the application of state and/or federal grants or programs; cost-sharing agreements with other entities; or other available sources of funds.			

2. Development Agreements: The City expects to consider requests for Development Agreements for the following projects that are consistent with this Plan, in the City's sole discretion.

A. *Tyson Fresh Meats (or a related entity):* The City expects to consider providing incentives to assist Tyson Fresh Meats (or a related entity) (the "developer") in the development of a new feed mill processing facility. The new facility would replace their current facility which is located within a block of the central business district creating traffic flow issues along with noise and odor issues within the heart of the City. The developer is proposing to invest approximately \$37,000,000 in the new facility. The developer anticipates creating 15 new jobs and the retention of 12. Construction is expected to start in 2019 and be completed in 2020. The City anticipates making grants to the developer in the form of rebates of incremental taxes generated by the project, not to exceed \$250,000, subject to the terms and conditions of a detailed development agreement. These rebates will not be general obligations of the City but will be payable solely from the incremental taxes generated by the project.

B. *Future Development Agreements:* The City expects to consider requests for Development Agreements for projects that are consistent with this Plan, as amended, in the City's sole discretion. Such agreements are unknown at this time, but based on past history and dependent on development opportunities and climate the City expects to

consider a broad range on incentives as authorized by this Plan, as amended, including, but not limited to, land, loans, grants, tax rebates, public infrastructure assistance, and other incentives. The costs of such development agreements will not exceed \$500,000.

3. Planning, Engineering Fees (for Urban Renewal Plans), Attorney Fees, Administrative, and Other Related Costs to Support Urban Renewal Projects and Planning:

Project	Estimated Date	Estimated Cost to be Funded by TIF Funds
Fees & Costs	Undetermined	Not to Exceed \$25,000

FINANCIAL INFORMATION

1.	July 1, 2019 Constitutional Debt Limit:	\$25,068,438.00
2.	Outstanding General Obligation Debt:	\$19,820,582.00
3.	Proposed amount of indebtedness to be incurred: A specific amount of debt to be incurred for the Eligible Urban Renewal Projects (Amendment No. 7) has not yet been determined. This document is for planning purposes only. The estimated project costs in this Amendment are estimates only and will be incurred and spent over a number of years. In no event will the City's constitutional debt limit be exceeded. The City Council will consider each project proposal on a case-by-case basis to determine if it is in the City's best interest to participate before approving an urban renewal project or expense. It is further expected that such indebtedness, including interest on the same, may be financed in whole or in part with tax increment revenues from the Urban Renewal Area. Subject to the foregoing, it is estimated that the cost of the Eligible Urban Renewal Projects (Amendment No. 7) as described above and be funded by TIF funds will be approximately as stated in the next column:	\$8,625,000 This does not include financing costs related to debt issuance, which may be incurred over the life of the area.

DEVELOPMENT PLAN

Storm Lake has a general plan for the physical development of the City, as a whole, outlined in the Storm Lake Comprehensive Plan that was adopted by the City Council in February 2013. The goals, objectives, and projects proposed in this Urban Renewal Plan, as amended, are consistent with the City's Comprehensive Plan.

The Amendment No. 7 Subarea is in the process of being annexed into the City. Upon the completion of the annexation process the City is proposing that the land be zoned GI, General Industrial, which is appropriate for the proposed development.

This Amendment No. 7 does not in any way replace the City's current land use planning or zoning regulation process.

URBAN RENEWAL FINANCING

The City intends to utilize various financing tools, such as those described below, to successfully undertake eligible urban renewal actions. The City has the statutory authority to use a variety of tools to finance physical improvements within the Area, as amended. These include:

A. Tax Increment Financing.

Under Section 403.19 of the *Code of Iowa*, urban renewal areas may utilize the tax increment financing mechanism to finance the costs of public improvements, economic development incentives, or other urban renewal projects. Upon creation of a tax increment district within the Area, by ordinance, the assessment base is frozen and the amount of tax revenue available from taxes paid on the difference between the frozen base and the increased value, if any, is segregated into a separate fund for the use by the City to pay costs of the eligible urban renewal projects. The increased taxes generated by any new development, above the base value, are distributed to the taxing entities, if not requested by the City, and in any event upon the expiration of the tax increment district.

B. General Obligation Bonds.

Under Division III of Chapter 384 and Chapter 403 of the *Code of Iowa*, the City has the authority to issue and sell general obligation bonds for specified essential and general corporate purposes, including the acquisition and construction of certain public improvements or urban renewal projects within the Area, as amended, or incentives for development consistent with this Plan, as amended. Such bonds are payable from the levy of unlimited ad valorem taxes on all the taxable property within the City. It may be that the City will elect to abate some or all of the debt service on these bonds with incremental taxes from this Area, as amended.

The City may also determine to use tax increment financing to provide incentives such as cash grants, loans, tax rebates, or other incentives to developers or private entities in connection with the urban renewal projects identified in the Plan, as amended. In addition, the City may determine to issue general obligation bonds, tax increment revenue bonds or such other obligations, or loan agreements for the purpose of making loans or grants of public funds to private businesses located in the Area for urban renewal projects. Alternatively, the City may determine to use available funds for making such loans or grants or other incentives related to urban renewal projects. In any event, the City may determine to use tax increment financing to reimburse the City for any obligations or advances.

Nothing herein shall be construed as a limitation on the power of the City to exercise any lawful power granted to the City under Chapter 15, Chapter 15A, Chapter 403, Chapter 427B, or any other provision of the *Code of Iowa* in furtherance of the objectives of this Urban Renewal Plan.

PROPERTY ACQUISITION/DISPOSITION

Notwithstanding prior plan provisions, the City will follow any and all applicable requirements for the acquisition and disposition of property upon terms and conditions in the discretion of the City Council.

RELOCATION

The City does not expect there to be any relocation required as part of the eligible urban renewal projects; however, if any relocation is necessary, the City will follow all applicable relocation requirements.

PROPERTY WITHIN AN URBAN REVITALIZATION AREA

The Urban Renewal Area may (now or in the future) also be located within an established Urban Revitalization Area. The Storm Lake City Council, at its sole discretion, shall determine which incentives are available through either: (a) this Plan for urban renewal incentives, if any urban renewal incentives are offered by the City, at the City Council's sole discretion; or (b) tax abatement incentives through Urban Revitalization but no individual or entity shall be eligible for both (a) and (b).

STATE AND LOCAL REQUIREMENTS

All provisions necessary to conform with State and local laws will be complied with by the City in implementing this Urban Renewal Plan, as amended, and its supporting documents.

AGRICULTURAL LAND

Because the Urban Renewal Area contains land that is defined as "agricultural land" by the *Code of Iowa* Section 403.17(3), the City and the agricultural land owner have entered into an agreement in which the agricultural land owner agrees to allow the City to include real property, defined as "agricultural land," in the Urban Renewal Area. A copy of this agreements is attached as Exhibit "D." The original signed agreements are on file at the City Clerk's office.

JOINT CITY/COUNTY AGREEMENT

In accordance with Section 403.17 of the *Code of Iowa*, a City may exercise urban renewal powers with respect to property which is located outside, but within two miles of the boundary of a City only if the City obtains the consent of the County within which such property is located. A Joint Agreement has been executed by the City of Storm Lake and Buena Vista County, which gives the City permission to include land, which is outside city limits, in the Storm Lake Industrial Park Urban Renewal Area. A copy of such Joint City/County Agreement is attached hereto as Exhibit "E." The original signed Joint Agreement is on file at City Hall.

REPEALER AND SEVERABILITY CLAUSE

Any parts of the previous Plan, as previously amended, in conflict with this Amendment are hereby repealed. If any part of the Amendment is determined to be invalid or unconstitutional,

such invalidity or unconstitutionality shall not affect the validity of the previously adopted Plan as a whole or the previous amendments to the Plan, or any part of the Plan not determined to be invalid or unconstitutional.

URBAN RENEWAL PLAN AMENDMENTS

The Urban Renewal Plan may be amended from time to time for a variety of reasons, including, but not limited to, adding or deleting land, adding or amending urban renewal projects, or modifying goals or types of renewal activities.

The City Council may amend this Plan in accordance with applicable State law.

EFFECTIVE PERIOD

This Amendment No. 7 will become effective upon its adoption by the City Council and will remain in effect until it is repealed by the City Council. Notwithstanding anything to the contrary in the Urban Renewal Plan, any prior amendment, resolution, or document, the Urban Renewal Plan, as amended, shall remain in effect until terminated by the City Council.

There is no expiration date on the collection of tax increment in the Original Subarea because it is a mixed area for the remediation of blight and the promotion of economic development (commercial and industrial). With respect to the property included within the Amendment No. 7 Subarea, which is also included in an ordinance which designates that property as a tax increment area based on an economic development finding, the use of incremental property tax revenues or the “division of revenue,” as those words are used in Chapter 403 of the *Code of Iowa*, is limited to twenty (20) years beginning with the first calendar year following the calendar year in which the City first certifies to the County Auditor the amount of any loans, advances, indebtedness, or bonds which qualify for payment from the incremental property tax revenues attributable to that property within a TIF Ordinance of the Amendment No. 7 Subarea.

At all times, the use of tax increment financing revenues (including the amount of loans, advances, indebtedness or bonds which qualify for payment from the division of revenue provided in Section 403.19 of the *Code of Iowa*) by the City for activities carried out within the Urban Renewal area shall be limited as deemed appropriate by the City Council and consistent with all applicable provisions of law.

EXHIBIT A

LAND TO BE ADDED BY AMENDMENT NO. 7

STORM LAKE INDUSTRIAL PARK URBAN RENEWAL AREA

LEGAL DESCRIPTION

A TRACT OF LAND LOCATED IN THE SOUTHWEST QUARTER (SW ¼) OF SECTION 1 TOWNSHIP 90 NORTH, RANGE 37 WEST OF THE 5TH P.M., BUENA VISTA COUNTY, IOWA, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

Commencing at the Northeast (NE) corner of the Southwest Quarter (SW ¼) of said Section 1; Thence South 00° 08' 18" East, along the East line of said Southwest Quarter (SW ¼), 131.94 feet to the Point of Beginning. Thence continuing South 00° 08' 18" East, along said West line, 798.82 feet; Thence South 74° 10' 45" West, 456.34 feet; Thence South 00° 08' 18" East, 120.00 feet to the North line of Block One (1), Industrial Park Addition to Storm Lake; Thence North 89° 35' 28" West, along said North line, 2201.55 feet to the West line of the Southwest Quarter (SW ¼); Thence North 00° 09' 20" West, along said West line, 1075.76 feet to the South line of the North eight (8) acres of the Southwest Quarter (SW ¼); Thence South 88° 57' 13" East, along said South line, 2641.68 feet to the Point of Beginning.

Hereafter known as Lot F in Section 1 Township 90 North, Range 37 West of the 5th P.M., Buena Vista, Iowa.

Tract contains 62.48 acres and is subject to all easements of record.

EXHIBIT B

STORM LAKE INDUSTRIAL PARK URBAN RENEWAL AREA

MAP LAND ADDED BY AMEND

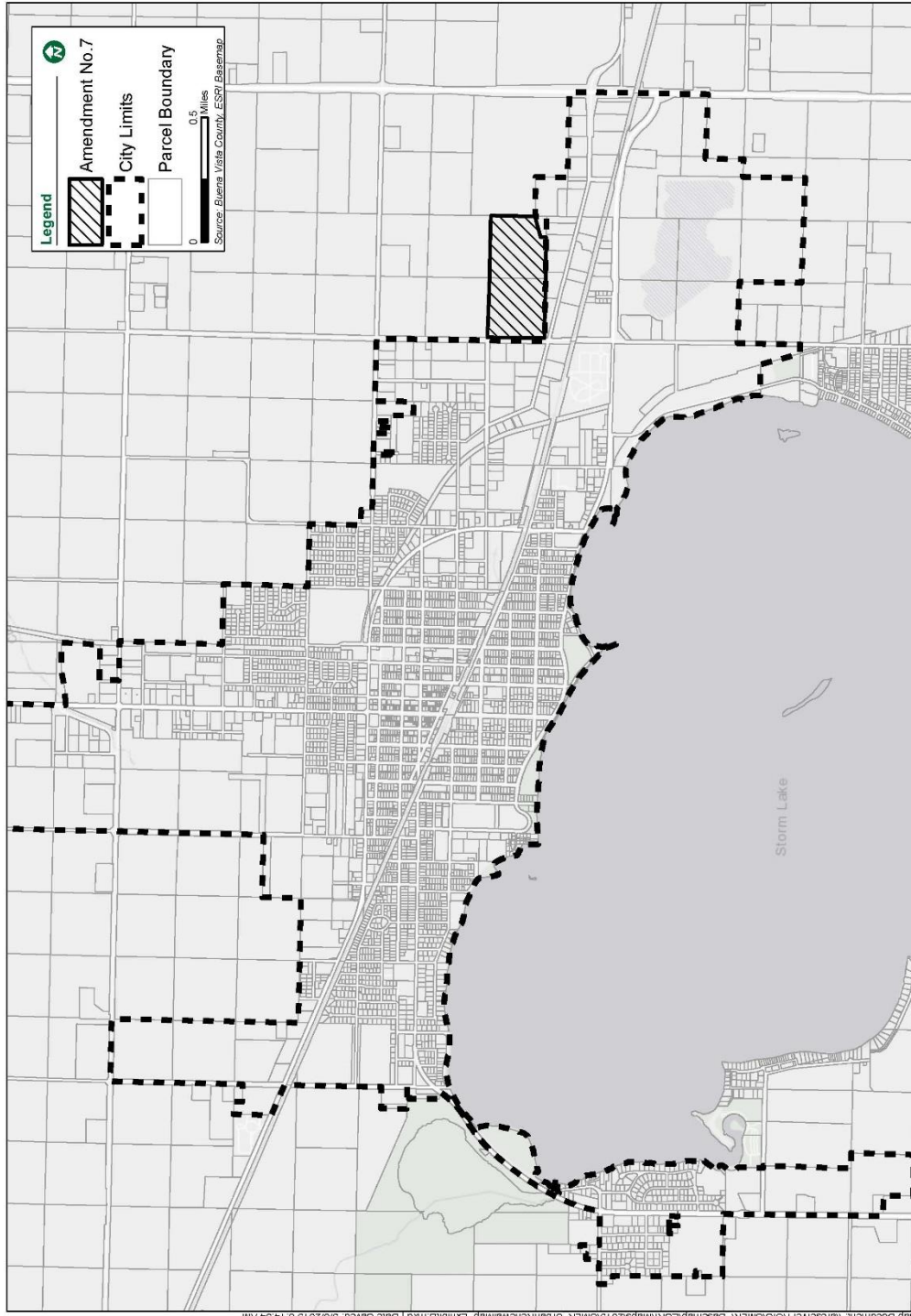


Land Added by Amendment No. 7

Storm Lake Industrial Park - Exhibit B



September 2019



NO. 7

MENT

EXHIBIT C

STORM LAKE INDUSTRIAL PARK URBAN RENEWAL AREA MAP SHOWING ALL SUBAREAS (2019)



Storm Lake Industrial Park Urban Renewal Area

Subarea Overview Map - Exhibit C



September 2019

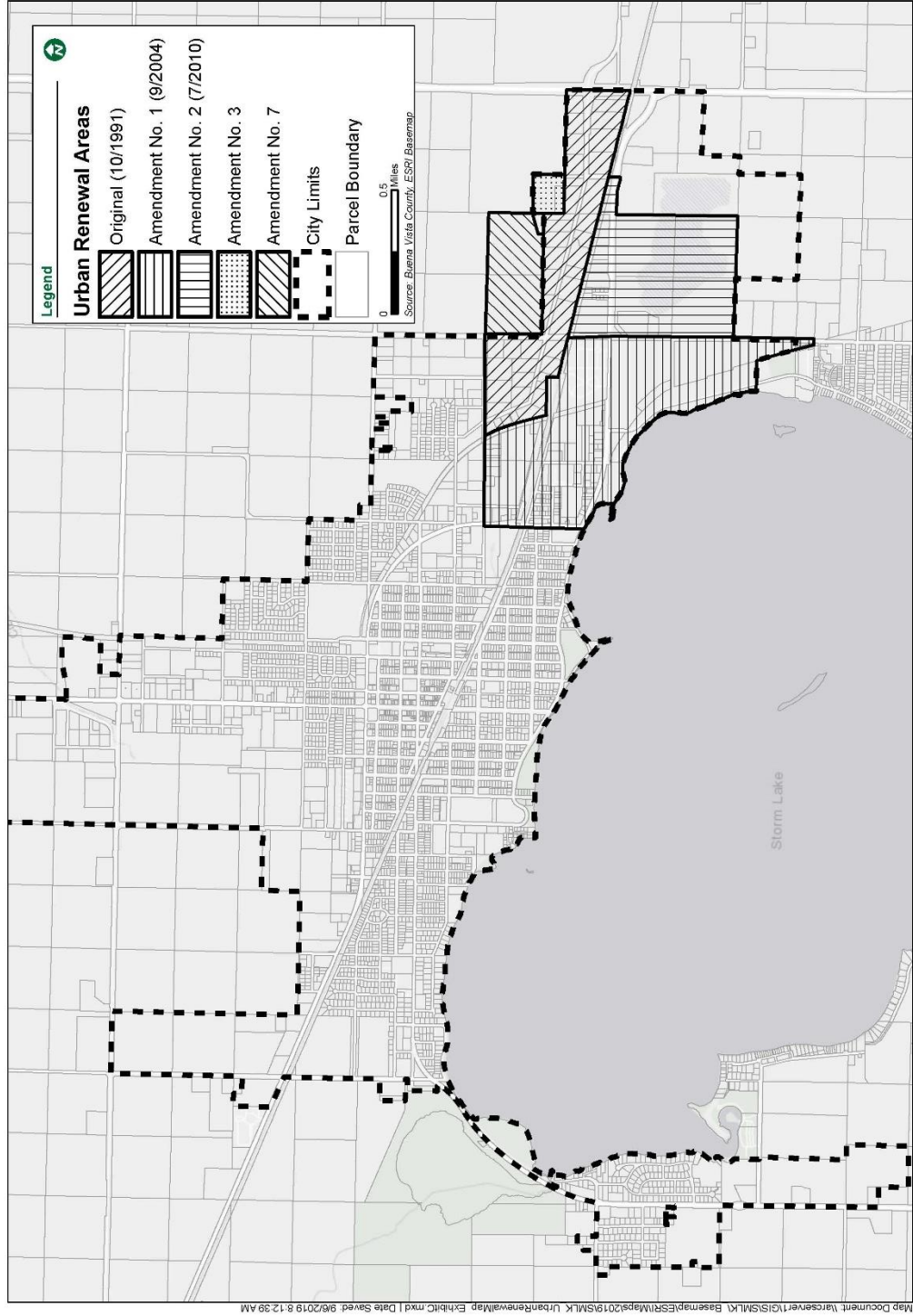


EXHIBIT D

AGRICULTURAL LAND CONSENT

AGREEMENT TO INCLUDE AGRICULTURAL LAND IN THE

STORM LAKE INDUSTRIAL PARK URBAN RENEWAL AREA, AS AMENDED

WHEREAS, the City of Storm Lake, Iowa, (the “City”) has proposed to amend the Storm Lake Industrial Park Urban Renewal Plan (“Plan”) for the Storm Lake Industrial Park Urban Renewal Area (the “Urban Renewal Area”), pursuant to Chapter 403 of the *Code of Iowa*, in order to undertake activities authorized by that Chapter; and

WHEREAS, it has been proposed that the boundaries of land to be included in the Urban Renewal Area will contain certain property owned by the undersigned Agricultural Land Owner; and

WHEREAS, Section 403.17(10) of the *Code of Iowa* provides that no property may be included in an urban renewal area which meets the definition of “agricultural land,” in Section 403.17(3) until the owners of such property agree to include such property in such urban renewal area; and

WHEREAS, it has been determined that a portion of the property proposed to be added to the Urban Renewal Area and owned by the Agricultural Land Owner listed below meets the definition of “agricultural land” in Section 403.17(3) of the *Code of Iowa*;

NOW, THEREFORE, it is hereby certified and agreed by the Agricultural Land Owner as follows:

1. The Agricultural Land Owner hereby certifies that he/she is the owner of certain property proposed to be added to the Urban Renewal Area, as amended, and agrees that the City of Storm Lake, Iowa, may include such property within the Urban Renewal Area, as amended. A legal description and map of the agricultural land to which consent is being given is attached as part of this Exhibit.

2. The Agricultural Land Owner further authorizes the governing body of the City of Storm Lake, Iowa, to pass any resolution or ordinance necessary to designate such property as part of the Urban Renewal Area under Chapter 403 of the *Code of Iowa*, and to proceed with activities authorized under said Chapter.

DATED this ____ day of _____, 2019.

Name of Agricultural Landowner: Patrick L. Sand

Signature

Date: _____

Witness:

Date: _____

**LEGAL DESCRIPTION AND MAP OF LAND CONSENTED TO BE ADDED TO THE
STORM LAKE INDUSTRIAL PARK URBAN RENEWAL AREA**

LEGAL DESCRIPTION

A TRACT OF LAND LOCATED IN THE SOUTHWEST QUARTER (SW ¼) OF SECTION 1, TOWNSHIP 90 NORTH, RANGE 37 WEST OF THE 5TH P.M., BUENA VISTA COUNTY, IOWA, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

Commencing at the Northeast (NE) corner of the Southwest Quarter (SW¼) of said Section 1; Thence South 00° 08' 18" East, along the East line of said Southwest Quarter (SW ¼), 131.94 feet to the Point of Beginning. Thence continuing South 00° 08' 18" East, along said East line, 798.82 feet; Thence South 74° 10' 45" West, 456.34 feet; Thence South 00° 08' 18" East, 120.00 feet to the North line of Block One (1), Industrial Park Addition to Storm Lake; Thence North 89° 35' 28" West, along said North line, 2201.55 feet to the West line of the Southwest Quarter (SW ¼); Thence North 00° 09' 20" West, along said West line, 1075.76 feet to the South line of the North eight (8) acres of the Southwest Quarter (SW ¼); Thence South 88° 57' 13" East, along said South line, 2641.68 feet to the Point of Beginning.

Hereafter known as Lot F in Section 1, Township 90 North, Range 37 West of the 5th P.M., Buena Vista, Iowa.

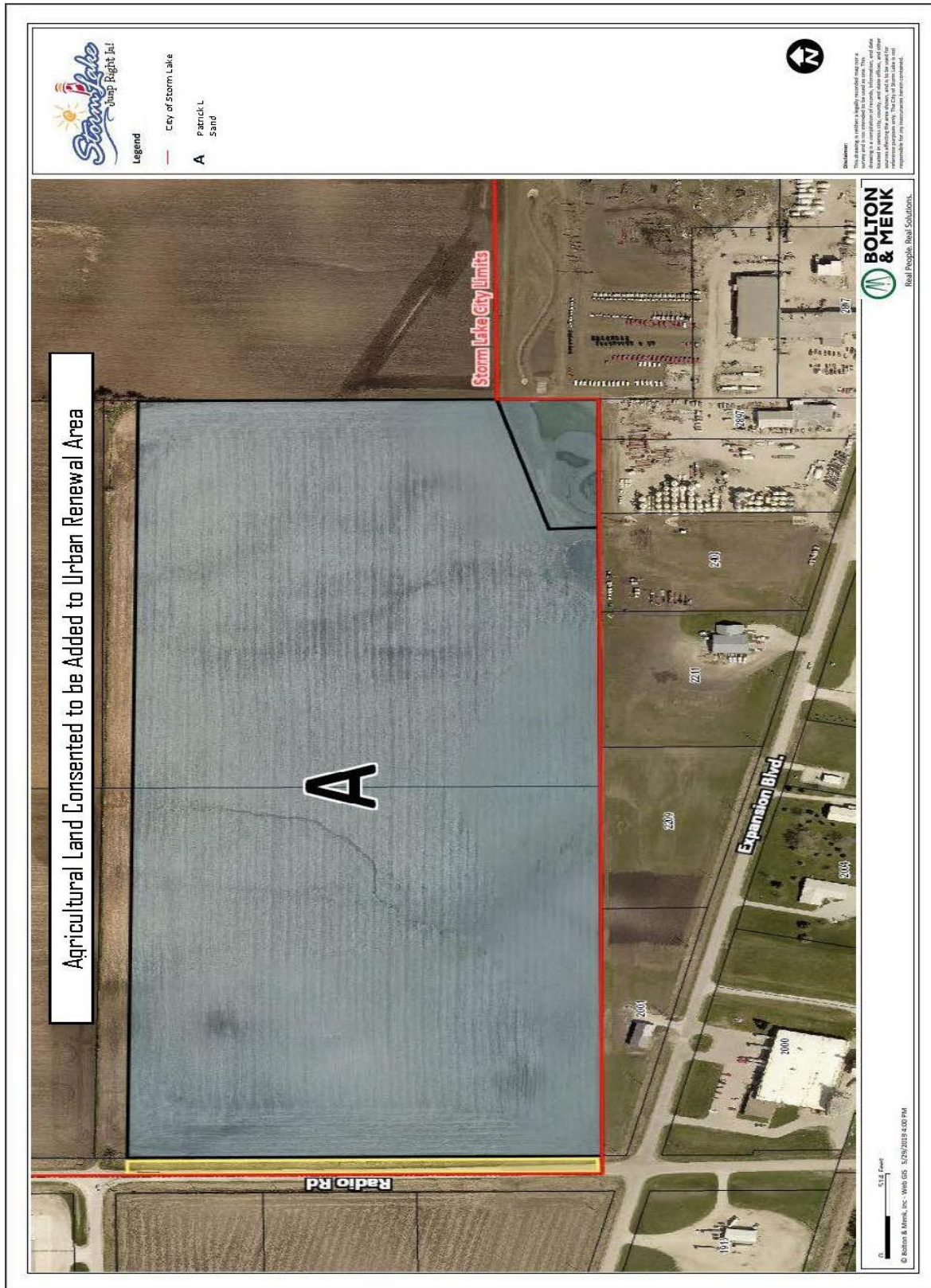


EXHIBIT E

JOINT AGREEMENT

WHEREAS, the City of Storm Lake, State of Iowa, (the "City") desires to amend an urban renewal area to include property within two miles, but outside the corporate limits, of the City for the purpose of participating in an urban renewal project; and

WHEREAS, the City Council of the City has reviewed the Storm Lake Industrial Park Urban Renewal Plan, as amended, for the Storm Lake Industrial Park Urban Renewal Area, as amended, and has determined that the amendment of the area by a proposed Amendment No. 7 to the Storm Lake Industrial Urban Renewal Plan, and completion of the projects described therein are in the best interests of the City; and

WHEREAS, Iowa Code Section 403.17(4) requires a "joint agreement" between the City and the County before the City can proceed with said project.

NOW THEREFORE, BUENA VISTA COUNTY, STATE OF IOWA AND THE CITY OF STORM LAKE, STATE OF IOWA, AGREE AS FOLLOWS:

1. The Board of Supervisors of Buena Vista County, State of Iowa hereby agrees and authorizes the City of Storm Lake, State of Iowa, to proceed with the amendment of the Storm Lake Industrial Park Urban Renewal Area as described in Amendment No. 7 to the Storm Lake Industrial Park Urban Renewal Plan, as amended, and the undertaking of urban renewal projects described therein within two miles, but outside the corporate limits, of the City.

2. This "joint agreement" is intended to meet the requirements of Iowa Code Chapter 403.17(4) with respect to the amendment of the Storm Lake Industrial Park Urban Renewal Area in the City, to include property located within two miles, but outside the corporate limits, of the City, in the Urban Renewal Area.

3. This Joint Agreement has been duly authorized by the governing bodies of Buena Vista County, State of Iowa and the City of Storm Lake, State of Iowa.

PASSED AND APPROVED this _____ day of _____, 2019.

[Signature pages follow]

BUENA VISTA COUNTY, STATE OF IOWA

Paul Merten, Chairperson, Board of
Supervisors

ATTEST:

Susan K. Lloyd, County Auditor

COUNTY OF BUENA VISTA)

Notary Public in and for Buena Vista County, Iowa

CITY OF STORM LAKE, STATE OF IOWA

ATTEST:

STATE OF IOWA)
) SS
COUNTY OF BUENA VISTA)

40

Clerk acknowledged said instrument to be the free act and deed of said Municipal Corporation by it voluntarily executed.

Notary Public in and for Buena Vista County, Iowa

Memorial Lift Station –Moved by Council Member Ibarra to approve the professional services agreement with ISG for Memorial Lift Station improvements in the amount not to exceed \$298,000. Seconded by Council Member Smith. Vote: All ayes with Council Member Engelmann absent. Motion carried.

City Council Requested Items – Council Member Rice asked if the Light House tour could be moved to an earlier date.

Wastewater Treatment Plant Tour - Moved by Council Member Ibarra to recess City Council Meeting at 5:24 pm and Reconvene at the Wastewater Treatment Plant for a tour. Seconded by Council Member Smith. Roll Call Vote: All ayes with Council Member Engelmann absent. Motion carried.

Moved by Council Member Rice to reconvene at the Wastewater Treatment Plant at 5:48 pm. Seconded by Council Member Ibarra. Roll Call Vote: All ayes with Council Member Engelmann absent. Motion carried.

Adjournment – Moved by Council Member Ibarra to adjourn the meeting at 6:46 pm. Seconded by Council Member McKinney. Vote: All ayes with Council Member Engelmann absent. Motion carried.

Applicant License Application (LC0036523)

Name of Applicant: <u>Lake Avenue Lounge 1, Inc.</u>		
Name of Business (DBA): <u>Lake Avenue Lounge</u>		
Address of Premises: <u>615 & 617 Lake Ave</u>		
City <u>Storm Lake</u>	County: <u>Buena Vista</u>	Zip: <u>50588</u>
Business <u>(712) 371-3095</u>		
Mailing <u>PO Box 573</u>		
City <u>Storm Lake</u>	State <u>IA</u>	Zip: <u>50588</u>

Contact Person

Name <u>Curtis Ellison</u>	
Phone: <u>(712) 371-3095</u>	Email <u>ecurt83@yahoo.com</u>

Classification Class C Liquor License (LC) (Commercial)

Term:12 months

Effective Date: 11/08/2019

Expiration Date: 11/07/2020

Privileges:

Class C Liquor License (LC) (Commercial)

Outdoor Service

Sunday Sales

Status of Business

BusinessType: <u>Privately Held Corporation</u>	
Corporate ID Number: <u>XXXXXXXXXX</u>	Federal Employer ID <u>XXXXXXXXXX</u>

Ownership

Curtis Ellison

First Name: <u>Curtis</u>	Last Name: <u>Ellison</u>	
City: <u>Storm lake</u>	State: <u>Iowa</u>	Zip: <u>50588</u>
Position: <u>president</u>		
% of Ownership: <u>100.00%</u>	U.S. Citizen: <u>Yes</u>	

Insurance Company Information

Insurance Company: <u>Illinois Union Insurance Company</u>	
Policy Effective Date:	Policy Expiration
Bond Effective	Dram Cancel Date:
Outdoor Service Effective	Outdoor Service Expiration
Temp Transfer Effective Date	Temp Transfer Expiration Date:

M E M O R A N D U M

TO: MAYRA MARTINEZ

FROM: MARK PROSSER

DATE: SEPTEMBER 16, 2019

REFERENCE: LIQUOR LICENSE RENEWAL
LAKE AVENUE LOUNGE
617 LAKE AVE

Discussion: Per your request I have accessed the department computer for calls of interest to the aforementioned establishment. The calls are as follows:

	8-29-2017 to 9-03-2018	9-04-2018 to 9-13-2019
INCIDENTS		
Ambulance Call	0	1
Assault	0	1
Bar Check	50	37
Business Security	2	1
City Code Enforcement	0	2
Criminal Mischief	1	0
Fight	1	0
Open Door	0	1
PR/Talk/Presentation	7	12
Reckless Driver	0	2
Street Beat	0	2
Suspicious Vehicle	0	1
ARRESTS		
	none	none

Recommendation: Approval of liquor license

Staff Summary

10/21/2019

Agenda Item # B.



City of Storm Lake
PO Box 1086
Storm Lake, IA 50588
p (712) 732-8000
f (712) 732-4114

REPORT TO: Honorable Mayor and City Council

FROM: Mayra Martinez, City Clerk

SUBJECT: **Buy Local Information**

BACKGROUND: Early in 2011 during a Study Session discussion Council asked staff to look at putting together some analysis information regarding the amount of purchases made locally. We have pulled that information together and a provided a summary of purchases identified in the current list of bills to be approved that are purchased locally (within the City of Storm Lake), within Buena Vista County, and outside of Buena Vista County are presented here for Council's review. This information is presented for for both the City and King's Pointe's bills.

As the reader reviews the information they should note the following key notes:

- Costs associated with any major capital project (those bid under the State of Iowa Bid Law) are excluded from the calculation
- Costs associated with travel is excluded from the calculation and %
- Costs associated with payroll is excluded from the calculation and %
- In some cases there is only one vendor or an item is only available from vendors outside of the City limits and/or Buena Vista County – we have not identified these
- Some departments have fairly minor budgets and a major purchase can skew the % and or amount for a given review period (For Example: the Airport may have normally \$4,000 - \$6,000 in expenses until they purchase Jet Fuel or Av Gas which can be \$10,000 + and as a vendor who is not local this can skew the information for that review period)
- Local has been determined to be has an office front in the

area and based on where the office front is located for local vs. BV County (For Example: Wal-Mart is considered local since they have a store in Storm Lake even though their headquarters is not located here)

As with all analytical data it is possible to interpret the numbers in a variety of ways and as we move forward we would be happy to provide further detail and or revise the way in which we show the data. Likewise if you have any questions or concerns please don't hesitate to contact city staff.

FISCAL IMPACT:

Breakout	Calculated Expenses
BVC	\$ 9,003.79
Contract/Agreement	\$ 81,264.25
Local	\$ 110,658.78
Non- Local	\$ 86,323.25
Payroll/Refunds/Insurance	\$ 167,082.63
Total Expenses	\$ 454,332.70
Supporting Documents Attached	

RECOMMENDATION: Review Buy Local Information

ATTACHMENTS:

Description	Type
 List of Bills	List of Bills
 King's Pointe and Golf Course - List of Bills	List of Bills



Storm Lake, IA

My Buy Local_v1

Payment Date Range: 10/10/2019 - 10/23/2019

Vendor Name	Buy Local Info	Payable Description	Total Payments
BVC			
Mike's Electronics Inc	BVC	Memorial LS Muffin Monster Repairs	6,823.53
Control Systems Specialists, LLC	BVC	Filter Panel Replacement for Blowers	620.54
Mike's Electronics Inc	BVC	Casino LS Repairs	890.08
Alta Implement Company, Inc	BVC	Pulley	122.10
Mike's Electronics Inc	BVC	Service Call- Well 20	112.50
Buena Vista County Solid Waste	BVC	Recycling	98.28
Mike's Electronics Inc	BVC	Service Call	85.00
Buena Vista County Solid Waste	BVC	Recycling	158.76
Buena Vista County Recorder	BVC	September 2019 Recording Fee	42.00
Buena Vista County Solid Waste	BVC	Recycling	51.00
BVC Total:			9,003.79
Contract/Agreement			
Bolton & Menk, Inc	Contract/Agreement	Development Engineering Services	79,093.50
I & S Group, Inc	Contract/Agreement	Engineering Services	1,256.25
Bolton & Menk, Inc	Contract/Agreement	General Engineering Services	744.00
I & S Group, Inc	Contract/Agreement	Final Design Services	170.50
Contract/Agreement Total:			81,264.25
Local			
MidAmerican Energy Company	Local	Electric Services	63,369.55
Star Energy, LLC	Local	Fuel	7,960.20
Smith Concrete Service Inc	Local	Concrete	7,143.50
Rebnord Technologies, Inc	Local	IT Service Agreement	3,700.00
Verizon Wireless Services LLC	Local	Cell Phone Service	3,289.69
Philip E Havens	Local	Legal Services- September 2019	2,992.08
Genesis Development	Local	Janitorial Services	2,000.00
Central Bank	Local	Supplies	1,935.59
Storm Lake Industrial Corporation	Local	Advertising (1/3)	1,900.00
Richard Phillips	Local	Radiator Repairs	1,786.30
Garbage Hauling Service Inc	Local	Garbage Service	1,296.09
Graham Tire	Local	New Tires (2)	1,257.80
Iowa Office Supply Inc	Local	Office Chairs	1,084.00
Graffix Inc	Local	Uniforms	1,050.00
Vanish LLC	Local	September 2019 Towing Services	1,000.00
Alliant Energy	Local	Gas Services	943.94
Vetter Equipment	Local	Shihl Quick Saw	917.95
Rebnord Technologies, Inc	Local	Monitor Stands (2)	1,439.80
Buena Vista University	Local	October 2019 Fall Cleanup Services	500.00
The Storm Lake Times	Local	September 2019 Publications	476.30
Storm Lake Ace Hardware	Local	Supplies	454.64
Edwards Storm Lake	Local	Injector Replacement	449.44
Graffix Inc	Local	Uniforms	337.45
Siouxland Certified Testing Services, Inc	Local	Testing Services- Parking Lot B (Michigan)	329.00
Michael P. Reinert	Local	Welding Wire	288.10
Color-ize Inc	Local	Award- Kavan	212.75
Mike's Lawn Service, Inc	Local	Lawn Renovation	210.00
Rent-All, Inc	Local	Canopy Rental	160.00
Kelly Johnson	Local	September 2019 Punches	144.00
Jeff DeWall	Local	Discount Coupons	139.00
Qwest Corporation	Local	October 2019 Phone Service	120.91
Iowa Office Supply Inc	Local	Office Supplies	98.76
Dennis R Julius	Local	September 2019 City Hall/PD Services	96.20
JNB Acquisition Corporation	Local	Copier Maintenance Agreement	92.93
Dianne Johnson	Local	Bd & Disp of Dogs	85.00

My Buy Local_v1
Payment Date Range: 10/10/2019 - 10/23/2019

Vendor Name	Buy Local Info	Payable Description	Total Payments
Plumbing & Heating Wholesale, Inc	Local	Blade	83.80
Smokin Hereford LLC	Local	Safety Bingo Supplies	81.92
Deere Credit, Inc	Local	Seal Kit	81.80
Storm Lake Hydraulics Co, Inc	Local	Hyd Hose & Supplies	78.21
Buena Vista Regional Medical Center	Local	9/4/2019 Eaton Drug Testing	142.00
The Storm Lake Times	Local	FY2020 Subscription- PD	139.90
JNB Acquisition Corporation	Local	Copier Maintenance Agreement	60.67
Stanton Electric, Inc	Local	Lights	60.00
Color-ize Inc	Local	Mounting Posters	60.00
McCrea Eneterprises	Local	Paint	58.95
Jerry's Tree Service	Local	Consultaion- 1104 Oneida Street	50.00
Builders FirstSource Inc	Local	Hinges	48.92
Vetter Equipment	Local	Stump Cutting Supplies	45.95
Iowa Office Supply Inc	Local	Envelopes	43.06
Graham Tire	Local	Tire Repairs	42.00
Buena Vista Regional Medical Center	Local	9/6/2019 Drug Testing	41.00
Dennis R Julius	Local	Laundry Services	40.50
JNB Acquisition Corporation	Local	Copier Maintenance Agreement	36.06
Graham Tire	Local	Tire Repairs	50.00
JNB Acquisition Corporation	Local	Copier Maintenance Agreement	24.68
O'Reilly Automotive Inc	Local	Light	23.88
JNB Acquisition Corporation	Local	Copier Maintenance Agreement	44.75
O'Reilly Automotive Inc	Local	Wiper Fluid	19.96
Plumbing & Heating Wholesale, Inc	Local	Clamps	18.20
Iowa Office Supply Inc	Local	Name Tag	16.65
Hy-Vee, Inc	Local	Supplies	4.95

Local Total: 110,658.78
Non-Local

Eastern Aviation Fuels, Inc	Non-Local	Jet A Fuel	18,961.42
Digital Ally Inc	Non-Local	In-Car Video Units	6,360.00
Mississippi Lime Company	Non-Local	Lime	16,155.48
Hawkins, Inc	Non-Local	Azone	4,636.27
Chem-Sult, Inc	Non-Local	Sodium Chlorite	3,847.80
Schumacher Elevator Company	Non-Local	FY20 Elevator Inspections	3,730.04
Shield Technology Corporation	Non-Local	FY2020 ShieldWare RMS Software Agreement	3,037.50
Hawkins, Inc	Non-Local	Hydro Acid	2,741.39
Electric Pump Inc	Non-Local	Service Call on IPS Lift Station	2,652.50
The Advantage Companies, LLC	Non-Local	Microfiliming	2,325.00
Kiesler Police Supply, Inc	Non-Local	Firearm	2,060.00
Hach Company	Non-Local	Testing Supplies	2,010.60
Tyler Technologies, Inc	Non-Local	Insite Transaction Fees	1,803.75
Ahlers & Cooney, P.C.	Non-Local	Legal Services- Hillshire	1,642.00
Utility Equipment Co	Non-Local	Clamps	1,418.85
Trevor Kruger	Non-Local	Laminate Glass Repairs	1,080.80
BlueTarp Financial, Inc	Non-Local	Handler	999.99
Kirkwood Community College	Non-Local	Basic Water Distribution Training- Eaton & Ste	960.00
Treasurer State of IA	Non-Local	2019 Unclaimed Property Filing Remittance	938.81
Dale Vitito	Non-Local	Uniforms	801.99
Blacktop Service Company	Non-Local	Hot Mix	626.40
Utility Equipment Co	Non-Local	Saddle	523.44
Polk County Sheriff	Non-Local	Garnishment	515.75
Specter Instruments, Inc	Non-Local	FY2020 Annual Maintenance & Support	495.00
Pitney Bowes Inc	Non-Local	10/15/2019 Postage	487.00
Ahlers & Cooney, P.C.	Non-Local	Legal Services- Amend #7 Ind Park	456.00
Sodexo	Non-Local	Coffee with a Cop	334.70
Central Iowa Distributing, Inc	Non-Local	Cleaning Supplies	310.50
Iowa Law Enforcement Academy	Non-Local	MMPI Evaluation	300.00
Hach Company	Non-Local	Testing Supplies	269.97
University Enterprises, Inc	Non-Local	Operations of Water Class- Tarrin	264.00
Jeff Koenig	Non-Local	Portable Toilet Rental	262.00

My Buy Local_v1

Payment Date Range: 10/10/2019 - 10/23/2019

Vendor Name	Buy Local Info	Payable Description	Total Payments
Midwest Tape, LLC	Non-Local	CDs	231.15
Central Iowa Distributing, Inc	Non-Local	Cleaning Supplies	226.00
Schumacher Elevator Company	Non-Local	Elevator Maintenance	210.97
Digital Ally Inc	Non-Local	Battery	210.00
BlueTarp Financial, Inc	Non-Local	Quick-Attach Skid Plate	179.99
International Public Management Associati	Non-Local	FY2020 Membership	149.00
Utility Supply of America, Inc	Non-Local	Supplies	145.94
Central Iowa Distributing, Inc	Non-Local	Cleaning Supplies	143.00
Brodart Co.	Non-Local	Books	136.79
UnityPoint Clinic- Occupational Medicine	Non-Local	Drug Testing	126.00
Alpha Wireless Communications	Non-Local	Battery Packs	122.60
Central Iowa Distributing, Inc	Non-Local	Cleaning Supplies	119.60
Brodart Co.	Non-Local	Books	107.46
Houchen Bindery, Ltd	Non-Local	Books	102.00
Ahlers & Cooney, P.C.	Non-Local	Legal Services- Ag Land Concent- Ind Park	95.00
Amerigas	Non-Local	FY2020 Tank Rental Fee	83.00
Iowa Lakes Regional Water	Non-Local	Water Service	70.69
State Library of Iowa	Non-Local	FY20 OCLC CatExpress Subscription	66.00
Cintas First Aid & Safety	Non-Local	First Aid Supplies	63.84
Iowa League of Cities	Non-Local	2019 Budget Workshop Registration- Gibbins	100.00
Central Iowa Distributing, Inc	Non-Local	Cleaning Supplies	42.50
Brownells, Inc	Non-Local	Supplies	38.73
Ingram Library Services, Inc	Non-Local	Books	38.33
Steven A Beeck	Non-Local	Window Cleaning Service	37.00
Iowa Stormwater Education Partnership	Non-Local	SRF Workshop Registration- Gibbins 11/20/20:	35.00
Tyler Technologies, Inc	Non-Local	Utility Billing Notification Services	34.50
Barnes & Noble Booksellers, USA Inc	Non-Local	Books	22.40
Brodart Co.	Non-Local	Books	21.21
Ingram Library Services, Inc	Non-Local	Books	62.00
Barnes & Noble Booksellers, USA Inc	Non-Local	Books	19.96
Ingram Library Services, Inc	Non-Local	Books	77.54
Brodart Co.	Non-Local	Books	36.21
Ingram Library Services, Inc	Non-Local	Books	74.72
Brodart Co.	Non-Local	Books	13.78
Ingram Library Services, Inc	Non-Local	Books	27.13
Brodart Co.	Non-Local	Books	13.18
Ingram Library Services, Inc	Non-Local	Books	12.26
Brodart Co.	Non-Local	Books	9.85
Ingram Library Services, Inc	Non-Local	Books	8.97
Non-Local Total:		86,323.25	
Payroll/Refunds			
Michael Porsch	Payroll/Refunds	League of Cities Conference Travel	290.00
Custodian of Petty Cash	Payroll/Refunds	September 2019 Postage	132.34
Michael Porsch	Payroll/Refunds	NWILC	105.56
Ruth Freese	Payroll/Refunds	September 2019 Homebound Deliveries	10.44
Christina Reyes	Payroll/Refunds	Refund Check- Reissue Check 73442	7.20
Payroll/Refunds Total:		545.54	
Grand Total:		287,795.61	

King's Pointe Resort
October 3rd to October 15th, 2019

Vendor	Description	Amount
MARTIN BROTHERS	Beverages	8,982.24
Hy-Vee #01634	Beverages	570.76
fintech.net	Services	56.65
DOLL DISTRIBUTING	Beverages	103.80
Johnson Brothers	Beverages	76.00
		<u>9,789.45</u>

Staff Summary

10/21/2019

Agenda Item # 3.



City of Storm Lake
PO Box 1086
Storm Lake, IA 50588
p (712) 732-8000
f (712) 732-4114

REPORT TO: Honorable Mayor and City Council

FROM: Keri Navratil, City Manager

SUBJECT: **Unfinished Business - Resolution No. 24-R-2019-2020
approving Change Order No. 1 for the Casino Lift Station
Odor Control Project**

BACKGROUND: Odor issues around the Casino Lift Station have been a concern to neighboring residents. Previously, City Council approved a professional services agreement with Bolton & Menk to determine the cause and remediation of the odor at Casino Lift Station. A biofiltration system is the recommended solution. Grundman-Hicks, LLC for was awarded the bid in the amount of \$184,106 for the project.

Change Order No. 1 adds \$998.58 for a control panel size increase and an installation of a check valve at the wetwell which also moves Substantial Completion from August 16, 2019 to September 20, 2019. Ready for Final Payment date will change from August 30, 2019 to September 30, 2019.

FISCAL IMPACT: Increase of cost by \$998.58 for a contract amount of \$185,104.58.

RECOMMENDATION: Staff recommends that Council approve Resolution No. 24-R-2019-2020 approving Change Order No. 1 for the Casino Lift Station Odor Control Project and authorize the Mayor and City Clerk to sign.

ATTACHMENTS:

Description	Type
☐ Resolution No. 24-R-2019-2020	Resolution
☐ Change Order No. 1	Change Order

RESOLUTION NO. 24-R-2019-2020

RESOLUTION ADOPTING CHANGE ORDER NO. 1 FOR THE CASINO LIFT STATION CONTROL PROJECT

WHEREAS, the plans, specifications, form of contract, estimate of cost, and award bid were filed with the CITY for the construction of certain public improvements described in general as the Casino Lift Station Control Project; and

WHEREAS, notice of hearing on plans, specifications, form of contract and estimate of cost for said public improvements was published as required by law; and

WHEREAS, a contract in the amount of \$184,106.00 was awarded to Grundman-Hicks, LLC for the project; and

WHEREAS, Change Order No. 1 will increase the project cost in the amount of \$998.58, move substantial completion from August 16, 2019 to September 20, 2019, and change the Ready for Final Payment date from August 30, 2019 to September 30, 2019.

NOW, THEREFORE, BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF STORM LAKE, IOWA;

Section 1. That the contract price is increased by \$998.58 for a total of \$185,104.58.

Section 2. That Substantial Completion date is moved from August 16, 2019 to September 20, 2019 and the Ready for Final Payment is moved from August 30, 2019 to September 30, 2019.

Section 3. That the Mayor and Clerk are hereby directed to execute this Change Order No. 1 with the contractor.

PASSED AND APPROVED this 16th day of September, 2019

Michael Porsch, Mayor

ATTEST:

Mayra A. Martinez, City Clerk

Date of Issuance: September 3, 2019
Owner: City of Storm Lake, Iowa
Contractor: Grundman-Hicks, LLC
Engineer: Bolton & Menk, Inc.
Project: Casino Road Odor Control

Effective Date: September 3, 2019
Owner's Contract No.:
Contractor's Project No.:
Engineer's Project No.: A12.117315
Contract Name:

The Contract is modified as follows upon execution of this Change Order:

Description:
Control panel size increase.
Time extension resultant from supplier procurement schedule.
Addition of duckbill check valve at the wetwell.

Attachments: *Change Order Proposal #1*

CHANGE IN CONTRACT PRICE	CHANGE IN CONTRACT TIMES
Original Contract Price: \$ <u>184,106.00</u>	Original Contract Times: Substantial Completion: <u>August 16, 2019</u> Ready for Final Payment: <u>August 30, 2019</u>
Increase or Decrease from previously approved Change Orders: \$ <u>0</u>	Increase or Decrease from previously approved Change Orders: Substantial Completion: <u>0 days</u> Ready for Final Payment: <u>0 days</u>
Contract Price prior to this Change Order: \$ <u>184,106.00</u>	Contract Times prior to this Change Order: Substantial Completion: <u>August 16, 2019</u> Ready for Final Payment: <u>August 30, 2019</u>
Increase of this Change Order: \$ <u>998.58</u>	Increase of this Change Order: Substantial Completion: <u>September 20, 2019</u> Ready for Final Payment: <u>September 30, 2019</u>
Contract Price incorporating this Change Order: \$ <u>185,104.58</u>	Contract Times with all approved Change Orders: Substantial Completion: <u>September 20, 2019</u> Ready for Final Payment: <u>September 30, 2019</u>

RECOMMENDED:
By: [Signature]
Engineer (if required)
Title: Project Engineer
Date: August 20, 2019

ACCEPTED:
By: _____
Owner (Authorized Signature)
Title: Mayor
Date: September 3, 2019

ACCEPTED:
By: [Signature]
Contractor (Authorized Signature)
Title: Project Manager
Date: 8-22-19



GRUNDMAN- HICKS, L.L.C.

.Cherokee, IA 51012



P.O. Box 927 .1222 S. Second St.

Phone (712) 225-5179 FAX (712) 225-5409

Attn: Josh Pope
Casino Road Odor Control
6/10/19

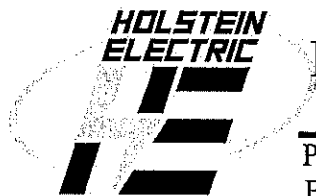
The following is a change order to provide and install a control panel that properly fits the time meter with a NEMA 4X rating.

Holstein Electric (See attached)	\$586.50
GH Profit/Overhead 5%	\$ 29.33
GH Bond 3%	\$ 18.47
TOTAL	\$634.30

If you have questions please feel free to let me know.

Sincerely,

Mitch Knippel
Project Manager
Grundman Hicks Construction



Holstein Electric, Ltd.

Electrical Contractors

Phone: (712) 368-2242

Fax: (712) 368-25367

P. O. Box 357

206 West 1st Street

Holstein, Iowa 51025

June 10, 2019

Grundman-Hicks

RE: Casino Lift Station Odor Control

Storm Lake, IA

Change Order No. 1

Change order to increase the size of the Biofilter Control Panel on Sheet 7.02

Automatic Systems:

One (1) **Biofilter Control Panel Changes to include** increasing the specified 24"H x 21.38"W x 8"D enclosure to 30"H x 25.38"W x 8"D to properly fit all required equipment. The specified elapsed time meter does not meet the required NEMA 4X rating. An equivalent time meter with NEMA 4X gasketing option will be provided.

\$510.00

Holstein Electric 15% Markup 76.50

Total Change Order \$ 586.50

*****Total Change Order \$586.50**

If you have any questions please call me at the office (712) 368-2242.

Thank you,

Mike Johnson, President
Holstein Electric, Ltd.



AUTOMATIC SYSTEMS CO.

Mr. Mike Johnson
Holstein Electric
206 West 1st Street
Holstein, IA 51025

Change Order Proposal #: ASC-01

Date: June 10, 2019

Quotation Expires: 30 Days

Project: Storm Lake, IA Casino Lift Station Odor Control
Improvements – Enclosure Size Increase and
Elapsed Time Meter Change

Page: 1

Change Order Proposal

Mr. Johnson,

The following change order proposal is to increase the size of the Biofilter Control Panel that is detailed on Sheet 7.02, Note N and to change the style of elapsed time meter as specified on Note H which is not NEMA 4X rated.

- A One (1) **Biofilter Control Panel Changes to include** increasing the specified 24"H x 21.38"W x 8"D enclosure to 30"H x 25.38"W x 8"D to properly fit all required equipment. The specified elapsed time meter does not meet the required NEMA 4X rating. An equivalent time meter with NEMA 4X gasketing option will be provided.

Your net price for Item A, FOB factory with freight allowed to jobsite including one (1) year warranty from date of startup (not to exceed 18 months from date of shipment).....\$ <u>510.00</u>
--

The above price for Item A **does not** include any:

1. Sales or use tax.
2. Installation of any kind.

Should you wish to proceed with an order please sign on the space provided below and return a copy to this office.

Sincerely,

Travis Moran

MANUFACTURERS REPRESENTATIVES

- | | |
|---|-----------------|
| ☐ MAIN OFFICE | P.O. BOX 120359 |
| ☒ BRANCH OFFICE | P.O. BOX 787 |
| ☐ BRANCH OFFICE | |

SYSTEMS INTEGRATION

ST. PAUL, MINNESOTA 55112	PHONE 651-631-9005
AMES, IOWA 50010	PHONE 515-232-4770
CHICAGO, ILLINOIS	PHONE 815-927-3386

INSTRUMENTATION

FAX (651) 631-0027
FAX (515) 232-0795
FAX (651) 631-0027

AUTOMATIC SYSTEMS CO.

MANUFACTURERS REPRESENTATIVE

CHANGE ORDER

PROPOSAL NO.: ASC-01

DATE: June 10, 2019

PAGE: 2

CHANGE ORDER PROPOSAL

Items Ordered _____

Total Net Price _____

Customer Firm Name _____

Authorized By _____

Purchase Order No. _____



GRUNDMAN- HICKS, L.L.C.

.Cherokee, IA 51012



E-MAILED

P.O. Box 927 .1222 S. Second St.

Phone (712) 225-5179 FAX (712) 225-5409

Attn: Josh Pope
Casino Road Biofilter
8/13/19

The following is a Change Order to install a Rubber Check Valve in the wet well.

Lincoln Winwater (waiting on formal invoice)	\$ 185.56
Grundman Hicks Labor	\$ 125.00
Grundman Hicks Profit/Overhead 15%	\$ 46.58
<u>Grundman Hicks Bond 2%</u>	<u>\$ 7.14</u>
TOTAL	\$ 364.28

If you have any questions please feel free to let me know. Thank you.

Sincerely,

Mitch Knippel
Project Manager
Grundman Hicks Construction

Staff Summary

10/21/2019

Agenda Item # 4.



City of Storm Lake
PO Box 1086
Storm Lake, IA 50588
p (712) 732-8000
f (712) 732-4114

REPORT TO: Honorable Mayor and City Council

FROM: Mark Prosser, Public Safety Director

SUBJECT: **Presentation of Storm Lake Police Department Staff Awards**

BACKGROUND: The Storm Lake Police Department will present the following awards during this agenda item:

2019 Civilian of the Year

2019 Officer of the Year

FISCAL IMPACT: None

RECOMMENDATION: No Action Required

Staff Summary

10/21/2019

Agenda Item # 5.



City of Storm Lake
PO Box 1086
Storm Lake, IA 50588
p (712) 732-8000
f (712) 732-4114

REPORT TO: Honorable Mayor and City Council

FROM: Scott Olesen, Building Official

SUBJECT: **Ordinance No. 02-O-2019-2020 On A The Proposed Re-Zoning of Parcel "A" and Parcel "B" - Third Reading**

BACKGROUND: Patrick Sand is requesting annexation into the City of Storm Lake, a parcel of property he owns which is generally located north east of the intersection Radio Road and Expansion Boulevard. Described as: A tract of land located in the Southwest Quarter (SW 1/4) of Section One, Township Ninety North, Range 37 West of the 5th P.M., Buena Vista County. The full legal description is included in the attached Exhibit "A" of this staff summary, and is indicated as Parcel "A" on the attached Exhibit "C".

Subsequent to this request, Mr. Sand is requesting that the property be Zoned as GI, General Industrial when it is brought into the City of Storm Lake corporate limits.

Section 1205, of the Storm Lake Zoning Ordinance states that "All territory, which may hereafter be annexed to the City, shall be in the RES-Reserve District. However, the Planning and Zoning Commission may recommend the appropriate district classification prior to such territory becoming part of the City and upon holding a public hearing and with approval of the City Council the territory upon becoming part of the City may be immediately so classified."

The City of Storm Lake is requesting annexation into the City of Storm Lake, a parcel of property it owns which is generally located north east of the intersection Radio Road and Expansion Boulevard. Described as: A tract of land located in the Northeast Quarter of the Southwest Quarter (NE 1/4 SW 1/4) Section One, Township Ninety North, Range 37 West of the 5th P.M., Buena Vista County. The full legal description is included in the attached Exhibit "A" of this staff summary, and is indicated as Parcel "B" on

the attached Exhibit "C".

Subsequent to the request for annexation, the City of Storm Lake is requesting that the property be Zoned as GI, General Industrial when it is brought into the City of Storm Lake Corporate limits.

Section 1205, of the Storm Lake Zoning Ordinance states that "All territory, which may hereafter be annexed into the City, shall be in the RES-Reserve District. However, the Planning and Zoning Commission may recommend the appropriate district classification prior to such territory becoming part of the City and upon holding a public hearing and with approval of the City Council the territory upon becoming part of the City may be immediately so classified."

The Storm Lake Planning and Zoning Commission reviewed this application at their August 26th, 2019 meeting and have recommended approval of the request.

FISCAL IMPACT:

Cost of public notices and legal fees estimated at \$200.00.

RECOMMENDATION:

First Reading : ~~September 16, 2019~~
Second Reading: ~~October 7, 2019~~
Third Reading: October 21, 2019

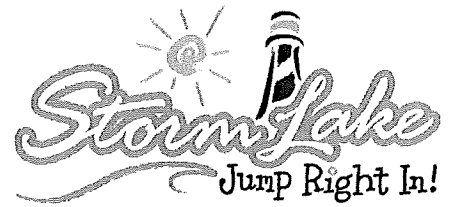
ATTACHMENTS:

Description	Type
☐ Zoning Application	Application
☐ Map Exhibit C	Map
☐ Map of adjoining property owners	Map
☐ Legal Description	Backup Material
☐ Ordinance NO. 02-O-2019-2020	Ordinance

ZONING ORDINANCE AMENDMENT REQUEST

CITY OF STORM LAKE

PLANNING AND ZONING COMMISSION and CITY COUNCIL



City of Storm Lake
PO Box 1086
Storm Lake, IA 50588
p (712) 732-8000
f (712) 732-4114

PROPERTY ADDRESS:

PROPERTY OWNER:

OWNER ADDRESS (if different than property owner):

OWNER'S PHONE NUMBER:

The City of Storm Lake Zoning Ordinance Article 12 Section 1204 establishes the amendment procedure for the Zoning Ordinance and requires the property owner to submit the following information, which must accompany this application before it can be considered by the Planning and Zoning Commission and the City Council.

The legal description and local address of the property.

The present zoning classification and the requested zoning classification.

The existing use of the property and the proposed use of the property.

A statement of the reasons why the applicant feels the present zoning classification is no longer valid.

Attach a plat showing the locations, dimensions and use of the applicant's property and all property within three hundred (300') feet including streets, alleys, railroads, and other physical features.

The request for a rezoning request will be heard by the Planning and Zoning Commission and the City Council at separate meetings.

The City of Storm Lake will notify all property owners within three hundred (300') feet of the applicant's property notifying them of the upcoming hearing.

The City of Storm Lake will notify the applicant of the hearing date.

The City of Storm Lake will publish a public hearing notice in a locally circulated newspaper not less than 7 and no more than 20 days prior to the meeting.

A non refundable application fee of **\$200.00** is required at time of the application. The fee will not be refunded if the request is denied by the Planning and Zoning Commission or the City Council.

ZONING ORDINANCE AMENDMENT REQUEST

CITY OF STORM LAKE

PLANNING AND ZONING COMMISSION and CITY COUNCIL



☐ Text Amendment to the Zoning Ordinance

☒ Zoning Map Amendment to the Zoning Ordinance

Current Zoning Ordinance Section:

City of Storm Lake

PO Box 1086

Storm Lake, IA 50588

p (712) 732-8000

f (712) 732-4114

Text
Amendment
Request:

Address of the Property:

☒ Legal Description
of the Property:

Present Zoning District:

- N/A - Not in city limits

Requested Zoning District:

GI, General Industrial

Why Present Zoning
Is No Longer Valid:

No longer used as farm land

Existing Use of the Property:

Farm land

Proposed Use of the Property:

Industry

Signature of Property Owner

4-25-19

Date

City of Storm Lake Use

Meeting Date:

Appeal No.:

Application Fee Paid:

Date Received:

Annexation Area Proposed by Patrick L Sand and City of Storm Lake in Reference to Adjacent Parcels Not in City Limits

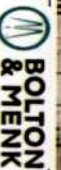


Legend

- City of Storm Lake
- A Patrick L Sand
- B City of Storm Lake
- C W.M. Petty
- D Patrick L Sand

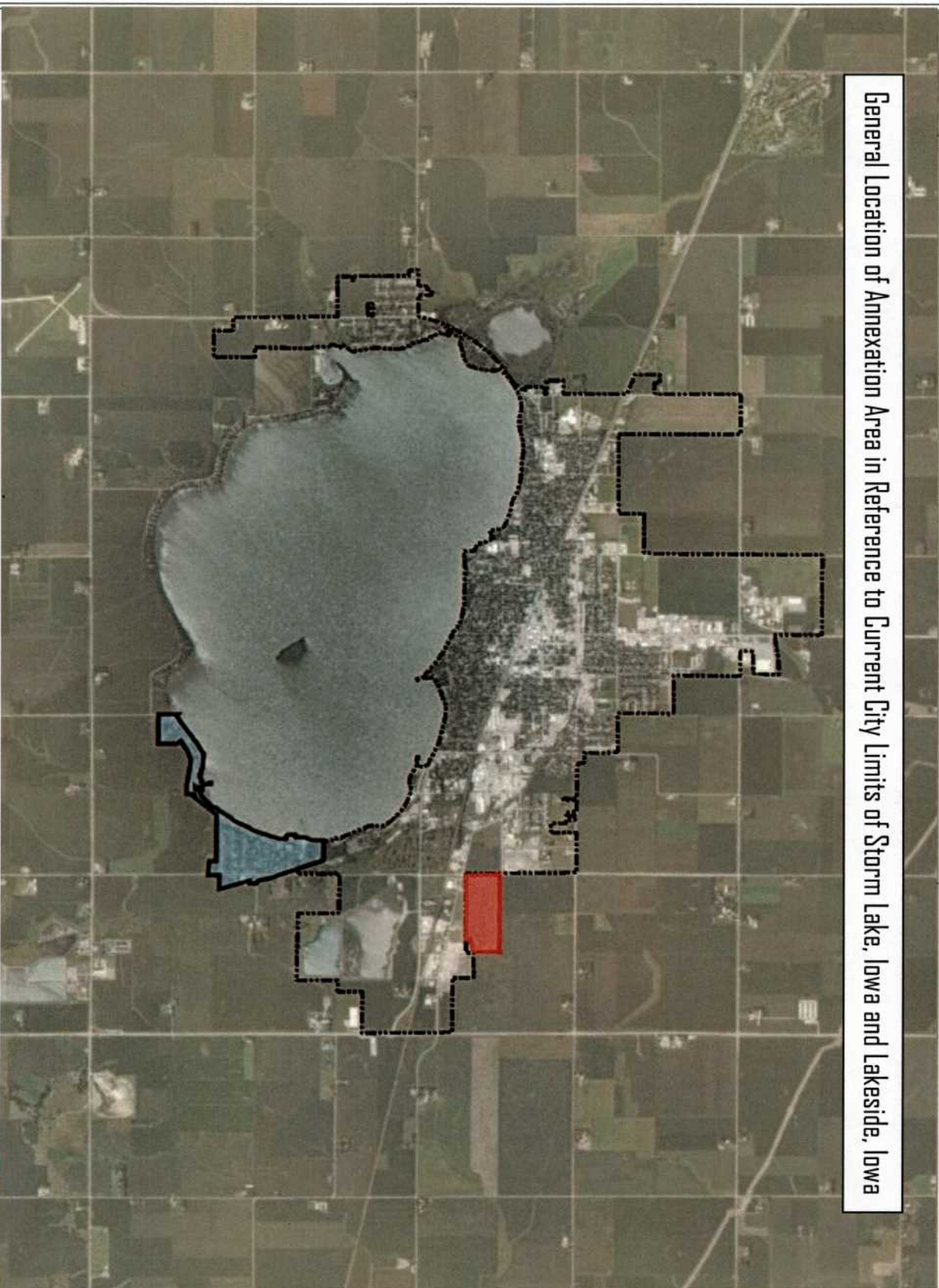


0	511 Feet		
Bolton & Menk, Inc. Web GIS: 5/29/2018 4:00 PM			
PARCEL	OWNER	VOLUNTARY	INVOLUNTARY ADJACENT
A	PATRICK L. SAND	X	
B	CITY OF STORM LAKE	X	
C	W.M. PETTY		X
D	PATRICK L. SAND		X



This is a map of a public right-of-way. The map is not intended to be used as a legal document. The map is intended to provide information only. The map is not intended to be used as a legal document. The map is intended to provide information only. The map is not intended to be used as a legal document. The map is intended to provide information only.

General Location of Annexation Area in Reference to Current City Limits of Storm Lake, Iowa and Lakeside, Iowa



0 4,213 Feet
© Bolton & Menk, Inc. Web GIS 5/29/2019 4:00 PM



- Legend**
- City Limits of Storm Lake
 - Annexation Area Proposed by Patrick Sand and City of Storm Lake
 - Lakeside City Limits



Disclaimer:
This drawing is prepared by a highly qualified staff using a variety of data and is not intended to be used as a legal document. It is not a warranty, representation, or guarantee of accuracy. The user of this drawing is responsible for verifying the accuracy of the information and for obtaining all necessary permits and approvals. The user of this drawing is also responsible for obtaining all necessary permits and approvals. The user of this drawing is also responsible for obtaining all necessary permits and approvals.



Key	Parcel ID	Owner Name	Taxpayer Name	Taxpayer Address	Taxpayer City	State	Zip Code
A	1401326004	SAND PATRICK L	SAND PATRICK L	6567 50TH AVE	ALTA	IA	51002
A	1401301002	SAND PATRICK L	SAND PATRICK L	6567 50TH AVE	ALTA	IA	51002
B	1401326003	CITY OF STORM LAKE	CITY OF STORM LAKE	P O BOX 1086	STORM LAKE	IA	50588-1086
C	1401401003	W. M PETTY	849 25 RD		GRAND JUNCTION	CO	81505-9664
D	1401100004	ANNETTE S KITCHEN TRUST /CAROLYN HOPLEY TRUST	CITIZENS 1ST NATL	DRAWER 1227	STORM LAKE	IA	50588-1227
D	1401100005	ANNETTE S KITCHEN TRUST / CAROLYN HOPLEY TRUST	CITIZENS 1ST NATL	DRAWER 1227	STORM LAKE	IA	50588-1227
E	1401401004	MERIDIAN MFG GROUP INC	MERIDIAN MFG GROUP INC	2900 EXPANSION BLVD	STORM LAKE	IA	50588
F	1401451007	MERIDIAN MFG GROUP INC	MERIDIAN MFG GROUP INC	2900 EXPANSION BLVD	STORM LAKE	IA	50588
G	1401376004	MERIDIAN MFG GROUP INC	MERIDIAN MFG GROUP INC	2900 EXPANSION BLVD	STORM LAKE	IA	50588
H	1401376003	MERIDIAN MFG GROUP INC	MERIDIAN MFG GROUP INC	2900 EXPANSION BLVD	STORM LAKE	IA	50588
I	1401376005	MERIDIAN MFG INC	MERIDIAN MFG INC	2900 EXPANSION BLVD	STORM LAKE	IA	50588
J	1401376006	MERIDIAN MFG INC	MERIDIAN MFG INC	2900 EXPANSION BLVD	STORM LAKE	IA	50588
K	1401351002	STORM LAKE INDUSTRIAL CORP	STORM LAKE INDUSTRIAL CORP	P O BOX 584	STORM LAKE	IA	50588-0584
L	1401351001	SCHUMANN DALE M	SCHUMANN DALE M	102 LAKESHORE DR	LAKESIDE	IA	50588
M	1401352001	FURST MC NESS CO	FURST MC NESS CO	120 E CLARK	FREEPORT	IL	61032
N	1402476004	TRANSCREDIT L C;	TRANSCREDIT L C;	11229 AURORA AVENUE	URBAN DALE	IA	50322
O	1402426008	SICHANH INC	SICHANH INC	606 FLINDT DR	STORM LAKE	IA	50588
P	1402426007	SICHANH INC	SICHANH INC	606 FLINDT DR	STORM LAKE	IA	50588
Q	1402426006	SICHANH INC	SICHANH INC	606 FLINDT DR	STORM LAKE	IA	50588
R	1402277008	BUENA VISTA COUNTY	BUENA VISTA COUNTY	P O BOX 220	STORM LAKE	IA	50588



Exhibit "A"

Parcel A Legal Description

A TRACT OF LAND LOCATED IN THE SOUTHWEST QUARTER (SW $\frac{1}{4}$) OF SECTION 1, TOWNSHIP 90 NORTH, RANGE 37 WEST OF THE 5TH P.M., BUENA VISTA COUNTY, IOWA, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

Commencing at the Northeast (NE) corner of the Southwest Quarter (SW $\frac{1}{4}$) of said Section 1; thence South 00°08'18" East, along the East line of said Southwest Quarter (SW $\frac{1}{4}$), 131.94 Feet to the Point of Beginning. Thence continuing South 00° 08' 18" East, along said East line, 798.82 Feet; thence South 74° 10' 45" West, 456.34 Feet; thence South 00° 08' 18" East, 120.00 Feet to the North line of Block One (1), Industrial Park Addition to Storm Lake; thence North 89° 35' 28" West, along said North line 2201.55 Feet to the West line of the Southwest Quarter (SW $\frac{1}{4}$); thence North 00° 09' 20" West, along said West line, 1075.76 Feet to the South line of the North Eight (8) acres of the Southwest Quarter (SW $\frac{1}{4}$); thence South 88° 57' 13" East, along said South line, 2641.68 Feet to the Point of Beginning.

Tract contains 62.48 acres and is subject to all easements of record

ORDINANCE NO. 02-O-2019-2020

ORDINANCE AMENDING THE ZONING ORDINANCE OF THE CITY OF STORM LAKE, IOWA BY ADDING TO THE OFFICIAL ZONING MAP CERTAIN REAL ESTATE AND ASSIGNING IT A ZONING CLASSIFICATION UPON ITS ANNEXATION INTO THE CITY OF STORM LAKE, IOWA

WHEREAS, after due notice of intended action as provided by law, the City Council of the City of Storm Lake, Iowa, has determined that the zoning ordinance of this City should be amended as set forth below; and

WHEREAS, said action has been recommended by the Planning and Zoning Commission of the City of Storm Lake, Iowa;

NOW, THEREFORE, BE IT ORDAINED by the City Council of the City of Storm Lake, Iowa, that, pursuant to Article IV, Section 406 of the Zoning Ordinance of the City of Storm Lake, Iowa, the official zoning map, as referred to therein, is hereby amended as follows:

The real estate parcel identified for taxation purposes as Parcel Numbers 1401301002 and 1401326004, legally described as:

A TRACT OF LAND LOCATED IN THE SOUTHWEST QUARTER (SW $\frac{1}{4}$) OF SECTION 1, TOWNSHIP 90 NORTH, RANGE 37 WEST OF THE 5TH P.M., BUENA VISTA COUNTY, IOWA, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

Commencing at the Northeast (NE) corner of the Southwest Quarter (SW $\frac{1}{4}$) of said Section 1; thence South 00°08'18" East, along the East line of said Southwest Quarter (SW $\frac{1}{4}$), 131.94 Feet to the Point of Beginning. Thence continuing South 00° 08' 18" East, along said East line, 798.82 Feet; thence South 74° 10' 45" West, 456.34 Feet; thence South 00° 08' 18" East, 120.00 Feet to the North line of Block One (1), Industrial Park Addition to Storm Lake; thence North 89° 35' 28" West, along said North line 2201.55 Feet to the West line of the Southwest Quarter (SW $\frac{1}{4}$); thence North 00° 09' 20" West, along said West line, 1075.76 Feet to the South line of the North Eight (8) acres of the Southwest Quarter (SW $\frac{1}{4}$); thence South 88° 57' 13" East, along said South line, 2641.68 Feet to the Point of Beginning.

Hereafter known as Lot F in Section 1, Township 90 North, Range 37 West of the 5th P.M., Buena Vista, Iowa.

Tract contains 62.48 acres and is subject to all easements of record;

AND

A TRACT OF LAND IN PART OF THE NORTHEAST QUARTER OF THE SOUTHWEST QUARTER (NE1/4 SW1/4) OF SECTION 1, TOWNSHIP 90 NORTH, RANGE 37 WEST OF THE 5TH P.M., BUENA VISTA COUNTY, IOWA, AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

Beginning at the Northeast (NE) corner of Lot Six (6), Block One (1), Industrial Park Addition to the City of Storm Lake; thence North 89°48'44" West, along the North line of said Block One (1) 439.36 Feet; thence North 00°21'07" West, 120.00 Feet; thence North 73°58'16" East, 456.31 Feet to the Northwest (NW) corner of Lot C of Lot B of said Section 1; thence South 00°21'07" East, along the West line of said Lot C of Lot B, 247.44 Feet to the point of beginning.

Tract contains 1.85 acres and is subject to all easements of record.

upon its annexation into the City of Storm Lake, Iowa, shall be included in the official zoning map and shall have an initial zoning district classification of General Industrial (GI).

This ordinance shall be in full force and effect from and after its passage and publication as provided by law.

PASSED AND APPROVED this _____ day of _____, 2019.

Michael Porsch, Mayor

ATTEST:

Mayra A. Martinez, City Clerk

Staff Summary

10/21/2019

Agenda Item # 6.



City of Storm Lake
PO Box 1086
Storm Lake, IA 50588
p (712) 732-8000
f (712) 732-4114

REPORT TO: Honorable Mayor and City Council

FROM: Brian Oakleaf, Finance Director

SUBJECT: **Motion to Approve Agreement Between the City of Storm Lake and Buena Vista County**

BACKGROUND: This agreement would allow the City to include the property described in Amendment No. 7 of the Storm Lake Industrial Renewal Plan and complete the projects described therein. As the property rests outside of the Corporate City Limits, a joint agreement with the County is necessary.

This agreement allows the City to continue the process of establishing the Amended area while the Annexation process continues.

The Agreement was authorized and signed by the Buena Vista County Supervisors at their October 15th meeting.

FISCAL IMPACT: There is no fiscal impact in approving the agreement.

RECOMMENDATION: Pass the motion authorizing the signature of the agreement.

ATTACHMENTS:

Description	Type
□ Joint Agreement With Buena Vista County	Contract

EXHIBIT E

JOINT AGREEMENT

WHEREAS, the City of Storm Lake, State of Iowa, (the "City") desires to amend an urban renewal area to include property within two miles, but outside the corporate limits, of the City for the purpose of participating in an urban renewal project; and

WHEREAS, the City Council of the City has reviewed the Storm Lake Industrial Park Urban Renewal Plan, as amended, for the Storm Lake Industrial Park Urban Renewal Area, as amended, and has determined that the amendment of the area by a proposed Amendment No. 7 to the Storm Lake Industrial Urban Renewal Plan, and completion of the projects described therein are in the best interests of the City; and

WHEREAS, Iowa Code Section 403.17(4) requires a "joint agreement" between the City and the County before the City can proceed with said project.

NOW THEREFORE, BUENA VISTA COUNTY, STATE OF IOWA AND THE CITY OF STORM LAKE, STATE OF IOWA, AGREE AS FOLLOWS:

1. The Board of Supervisors of Buena Vista County, State of Iowa hereby agrees and authorizes the City of Storm Lake, State of Iowa, to proceed with the amendment of the Storm Lake Industrial Park Urban Renewal Area as described in Amendment No. 7 to the Storm Lake Industrial Park Urban Renewal Plan, as amended, and the undertaking of urban renewal projects described therein within two miles, but outside the corporate limits, of the City.
2. This "joint agreement" is intended to meet the requirements of Iowa Code Chapter 403.17(4) with respect to the amendment of the Storm Lake Industrial Park Urban Renewal Area in the City, to include property located within two miles, but outside the corporate limits, of the City, in the Urban Renewal Area.
3. This Joint Agreement has been duly authorized by the governing bodies of Buena Vista County, State of Iowa and the City of Storm Lake, State of Iowa.

PASSED AND APPROVED this 15th day of October, 2019.

[Signature pages follow]

BUENA VISTA COUNTY, STATE OF IOWA

Paul Merten

Paul Merten, Chairperson, Board of
Supervisors

ATTEST:

Susan K. Lloyd

Susan K. Lloyd, County Auditor

STATE OF IOWA

)

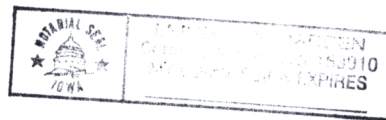
) SS

COUNTY OF BUENA VISTA)

On this 15 day of October, 2019, before me a Notary Public in and for the State of Iowa, personally appeared Paul Merten and Susan K. Lloyd to me personally known, who being duly sworn, did say that they are the Chairperson and Secretary, respectively, of Buena Vista County, State of Iowa, a political subdivision, and that the seal affixed to the foregoing instrument is the seal of said political subdivision, and that said instrument was signed and sealed on behalf of said political subdivision by authority and resolution of its Board of Supervisors, and said Chairperson and Secretary acknowledged said instrument to be the free act and deed of said political subdivision by it voluntarily executed.

Leigh Ann Madsen

Notary Public in and for Buena Vista County, Iowa



PASSED AND APPROVED this [redacted] day of [redacted], 2019.

CITY OF STORM LAKE, STATE OF IOWA

Michael Porsch, Mayor

ATTEST:

Mayra Martinez, City Clerk

STATE OF IOWA)
) SS
COUNTY OF BUENA VISTA)

On this [redacted] day of [redacted], 2019, before me a Notary Public in and for said County, personally appeared Michael Porsch and Mayra Martinez to me personally known, who being duly sworn, did say that they are the Mayor and City Clerk, respectively, of the City of Storm Lake, State of Iowa, a Municipal Corporation, created and existing under the laws of the State of Iowa, and that the seal affixed to the foregoing instrument is the seal of said Municipal Corporation, and that said instrument was signed and sealed on behalf of said Municipal Corporation by authority and resolution of its City Council, and said Mayor and City Clerk acknowledged said instrument to be the free act and deed of said Municipal Corporation by it voluntarily executed.

Notary Public in and for Buena Vista County, Iowa

Staff Summary

10/21/2019

Agenda Item # 7.



City of Storm Lake
PO Box 1086
Storm Lake, IA 50588
p (712) 732-8000
f (712) 732-4114

REPORT TO: Honorable Mayor and City Council

FROM: Scott Olesen, Building Official

SUBJECT: **Public Hearing for Wastewater Treatment Facility Wetlands**

BACKGROUND: The project will consist of wetland restorers on the same site as the Wastewater Treatment Facility. The wetland plants will filter out harmful substances before the water is released to the Raccoon River. Reduction of runoff to the river and improvement of stormwater quality will enhance the river water and assist the City in meeting the Nutrient Reduction requirement for our new Wastewater Treatment Permit.

FISCAL IMPACT: The project will be funded 75% by Federal HUD grant and 25% wastewater user fees.

RECOMMENDATION: Open Hearing
Hear Comments
Close Hearing

ATTACHMENTS:

Description	Type
☐ Wastewater Treatment Plant Wetland Project Final Part 1	Backup Material
☐ Wastewater Treatment Plant Wetland Project Final Part 2	Backup Material
☐ Wastewater Treatment Plant Wetland Project Final Part 3	Backup Material
☐ Wastewater Treatment Plant Wetland Project Final Part 4	Backup Material
☐ Wastewater Treatment Plant Wetland Project Final Part 5	Backup Material
☐ Public Hearing Notice	Backup Material

CITY OF STORM LAKE

WASTEWATER TREATMENT PLANT

WETLANDS

STORM LAKE, BUENA VISTA COUNTY, IOWA

	I HEREBY CERTIFY THAT THIS ENGINEERING DOCUMENT WAS PREPARED BY ME OR UNDER MY DIRECT PERSONAL SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF IOWA DEREK R. LASH, P.E. REG. NO. <u>P21838</u> DATE. _____ MY LICENSE RENEWAL DATE IS <u>12/31/2020</u> PAGES OR SHEETS COVERED BY THIS SEAL: _____ ALL SHEETS
	I HEREBY CERTIFY THAT THE PORTION OF THE TECHNICAL SUBMISSION DESCRIBED BELOW WAS PREPARED BY ME OR UNDER MY DIRECT PERSONAL SUPERVISION AND THAT I AM A DULY LICENSED LANDSCAPE ARCHITECT UNDER THE LAWS OF THE STATE OF IOWA BRITTA M. HANSEN, PLA REG. NO. <u>00696</u> DATE. _____ MY LICENSE RENEWAL DATE IS <u>06/30/2020</u> PAGES OR SHEETS COVERED BY THIS SEAL: _____



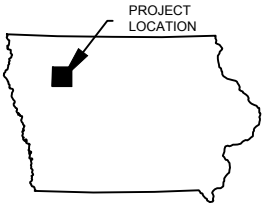
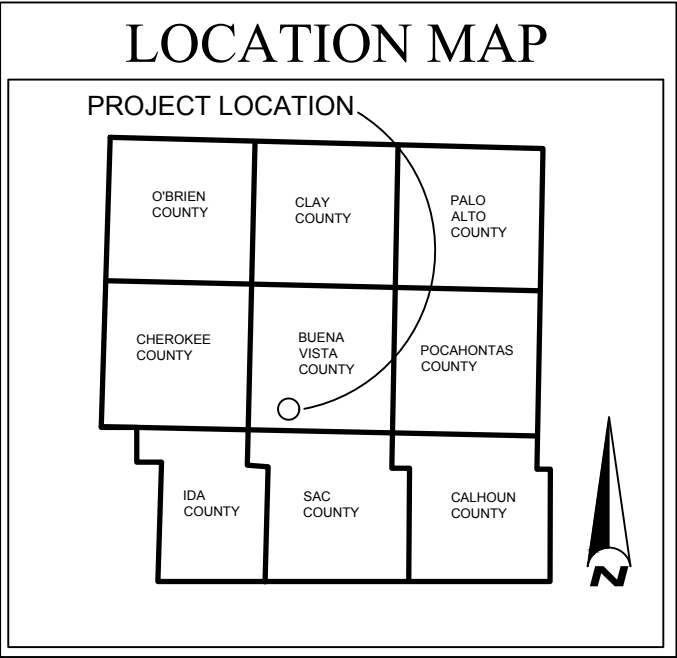
Sheet List Table	
Sheet Number	Sheet Title
01	TITLE SHEET
02	SCHEDULE OF ESTIMATED QUANTITIES & LEGEND
03	GENERAL NOTES & LEGEND
04-06	EXISTING CONDITIONS
07-10	SOIL BORING INFORMATION
11	SURVEY CONTROL PLAN
12-13	STORM WATER POLLUTION PREVENTION SITE PLAN
14-16	EROSION AND SEDIMENT CONTROL PLAN
17	DEMOLITION AND REMOVALS PLAN
18	SITE ENTRANCE CONSTRUCTION PLAN
19-30	GRADING AND DRAINAGE PLAN
31	EARTH WORK CUT FILL DIAGRAM
32	STORM SEWER OVERVIEW
33-35	STORM SEWER PLAN AND PROFILE
36-38	LANDSCAPE RESTORATION PLAN
39-46	DETAIL SHEETS

* THIS PLAN SET CONTAINS 46 PLAN SHEETS

RESOURCE LIST	
CITY OF STORM LAKE	UTILITIES
CITY HALL 620 ERIE STREET P.O. BOX 1086 STORM LAKE, IA 50588 CITY MANAGER: KERI NAVRATIL MAYOR: MIKE PORSCH CITY COUNCIL MEMBERS: DAN SMITH JOSE IBARRA KEVIN MCKINNEY BRUCE ENGELMANN TYSON RICE DEPARTMENT HEAD: SCOTT OLESEN SUPERVISOR: MARK STREED	LOCAL CITY OF STORM LAKE 433 VILAS ROAD STORM LAKE, IA 50588 712-732-8029 ELECTRIC MID AMERICAN 1016 VESTAL ST STORM LAKE, IA 50588 712-749-7116 GAS MID AMERICAN 1016 VESTAL ST STORM LAKE, IA 50588 712-749-7116

IOWA ONE CALL	
<u>Required 48-Hour Notice</u> Prior to the commencement of any excavation planned or scheduled to occur within the state of Iowa, all excavators (persons planning to engage in any form of excavating) must contact the Iowa One Call Notification System and provide notice of the planned excavation at least 48-hours prior to the commencement of the planned excavation – excluding Saturdays, Sundays and legal holidays. Failure to notify the Iowa One Call System prior to engaging in any type of digging or excavating is a serious breach of Iowa law. Contractors and professional excavators perform more activities that disturb the earth than any other sector and the rules and regulations involving excavation safety and underground damage prevention are critical to the professional contractor and excavator. <u>Methods of Providing Information for Locate Requests</u> The IOC Call Center can be Reached 24-Hours a Day, 7 Days a Week via your landline or cellular telephone: Simply dial 811 or call 800-292-8989 Online Ticket Entry System: WWW.IOWAONECALL.COM The new "iTic" system provides a user-friendly Internet-based application for submitting and tracking Iowa One Call locate requests. Each locate request that is processed is assigned a serial number by the computer. This number contains all the information about your call. It is important to write this number down and keep it with your records. Iowa One Call retains this information for six years. Excavators may be liable for any damages they may cause to buried facilities. Simply calling Iowa One Call does not necessarily relieve an excavator of these potential liabilities. For example, a damaged fiber optics line may be extremely costly to repair and the financial obligation of the contractor/excavator responsible for the damage. Excavators need to take precautions and dig safely to avoid damaging buried facilities. In the event the locate markings are clearly inaccurate the liability for damage may shift to the facility operator.	

CONSTRUCTION NOTE
CONTRACTOR SHALL TAKE ALL NECESSARY MEASURES TO MAINTAIN OPERATION OF EXISTING UTILITIES THROUGHOUT THE DURATION OF THE PROJECT. IN THE EVENT THAT AN INTERRUPTION OF SERVICE IS UNAVOIDABLE IN ORDER TO COMPLETE THE WORK, CONTRACTOR SHALL PROVIDE ADEQUATE NOTIFICATION TO ALL AFFECTED BUSINESSES AND/OR RESIDENCES A MINIMUM OF 3 WORKING DAYS IN ADVANCE OF ANY INTERRUPTION.
EXISTING UTILITIES
THE LOCATION OF UNDERGROUND FACILITIES AND/OR STRUCTURES AS SHOWN ON THE PLANS ARE BASED ON AVAILABLE RECORD AT THE TIME THE PLANS WERE PREPARED AND ARE NOT GUARANTEED TO BE COMPLETE OR CORRECT. THE SUBSURFACE UTILITY INFORMATION SHOWN IS UTILITY QUALITY LEVEL D, AS DETERMINED USING THE GUIDELINES OF "CI/ASCE 38-02 STANDARD GUIDELINES FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA." THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING ALL UTILITIES AT LEAST 48 HOURS PRIOR TO CONSTRUCTION TO DETERMINE THE EXACT LOCATION OF ALL FACILITIES AND TO PROVIDE ADEQUATE PROTECTION OF SAID UTILITIES DURING THE COURSE OF WORK.



GOVERNING SPECIFICATIONS

THE 2019 REVISED EDITION OF THE SUDAS "STATEWIDE URBAN DESIGN AND SPECIFICATIONS (SUDAS) MANUAL, 2015 IOWA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS, AND SPECIAL PROVISIONS SHALL GOVERN.

ALL TRAFFIC CONTROL DEVICES AND SIGNING SHALL CONFORM TO IOWA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, INCLUDING FIELD MANUAL FOR TEMPORARY CONTROL ZONE LAYOUTS.

CLIENT
CITY OF STORM LAKE 620 ERIE STREET P.O. BOX 1086 STORM LAKE, IA 50588
ENGINEER
EMMONS & OLIVIER RESOURCES, INC. 7030 6th STREET NORTH OAKDALE, MINNESOTA 55128-7534 TELEPHONE: (651) 770-8448 FAX: (651) 770-2552 eorinc.com

Proj Date: 02/04/2019
Drawing name: X:\clients_municipal\01112_storm_lake_a\0019_wastewater_treatment_facility_pond\09_gms_projectname\dwg\1112-19_30_Plans\1112-19_Title_Sheet.dwg
Xrefs:

6			
5			
4	02/01/2019	BR	100% FINAL SUBMITAL
3	07/03/2018	BR	90% PRELIMINARY SUBMITTAL
2	01/05/2018	BR	60% PRELIMINARY SUBMITTAL
1	03/17/2017	BR	30% PRELIMINARY SUBMITTAL
NO	DATE	BY	REVISION



NOT FOR CONSTRUCTION

SUBMISSION DATE: 10/25/2017	
DESIGN BY DRL	DRAWN BY BR
EOR PROJECT NO. 01112-0019	



Emmons & Olivier Resources, Inc.
7030 6th Street North
Oakdale, MN 55128
ecology
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WASTEWATER TREATMENT PLANT WETLANDS STORM LAKE, BUENA VISTA COUNTY, IOWA
STATE PROJECT NO. --- CITY PROJECT NO. ---

TITLE SHEET
SHEET 01 OF 46 SHEETS

Plot Date: 12/24/2019
Drawing name: X:\clients_municipal\112_storm_lake_a\0018_wastewater_treatment_facility_pond\09_gms_projectname\dwg\112-19_30_Plans\112-19_SEQ_Construction_Submittals.dwg
Xrefs: 112_0019 XBase

Item No.	Item	Sudas Reference #	Unit	Estimated Quantity	As-Built Quantity
Division 2 - Earthwork					
1	Clearing and Grubbing, 6" - 18"	2010-1.08-A	EA	4	
2	Excavation Class 13	2010-1.08-E	CY	143000	
3	Subgrade Preparation	2010-1.08-G	SY	1660	
4	Subgrade Treatment	2010-1.08-H	SY	1660	
5	Subbase, Modified (8")	2010-1.08-I	TON	698	
Division 4 - Sewers and Drains					
6	Storm Sewer, Class V RCP, 18"	4020-1.08-A	LF	34	
7	Storm Sewer, HDPE 24"	4020-1.08-A	LF	230	
8	Storm Sewer, HDPE 36"	4020-1.08-A	LF	40	
9	RCP Apron, 18"	4030-1.08-B	EA	1	
10	CMP Apron, 24"	4030-1.08-B	EA	10	
11	CMP Apron, 36"	4030-1.08-B	EA	2	
Division 6: Structures for Sanitary and Storm Sewer					
12	Agri-Drain, 24" x 4' , PT, Inline Water Level Control Structure	Special	EA	5	
13	Agri-Drain, 54" x 4' , CMP, Inline Water Level Control Structure	Special	EA	1	
14	54" Top Mount Hinged Pond Grate	Special	EA	1	
Division 9 - Site Work and Landscaping					
15	Conventional seeding: seeding, Fertilizing and conventional mulching, type 1 seed mixture (Permanent Lawn Mixture)	9010-1.08-A	ACRE	0.50	
16	Conventional seeding: seeding, fertilizing and conventional mulching, type 3 seed mixture (permanent warm-season slope and ditch mixture)	9010-1.08-A	ACRE	18.80	
17	Warranty, 2-Year Vegetation Establishment & Maintenance Period (to start after final payment)	9010-1.08-E	LS	1	
18	Hydromulch: Bonded Fiber Matrix	9010-1.08	ACRE	31.70	
19	Seeding: CP23 Wet Mix	Special	ACRE	8.50	

20	Seeding: CP25 Standard Mix	Special	ACRE	3.90	
21	Tree (2")	9030-1.08-A	EA	31	
22	Shrub (#5)	9030-1.08-A	EA	660	
23	Tree (Including warranty)	9030-1.08-B	EA	4	
24	Habitat Log	Special	EA	5	
25	Bat House	Special	EA	5	
26	SWPPP Management	9040-1.08-A	LS	1	
27	SWPPP Qualifying Rain Event Inspection (>0.5")	9040-1.08-A	EA	30	
28	Rip Rap, Class E Revetment w/ Geotextile Fabric	9040-1.08-J	TON	277	
29	Rubber (6'x6')Anti-Seep Collar	9040-1.08L1	EA	10	
30	Concrete (8'x8') Anti-Seep Collar	9040-1.08L2	EA	2	
31	Silt Fence, install	9040-1.08-N1	LF	2200	
32	Silt Fence, removal	9040-1.08-N3	LF	2200	
33	Stabilized Construction Entrance	9040-1.08-O2	EA	1	
34	Dust Control, Water (per thousand gallons)	9040-1.08-P1	MGAL	100	
35	Turf Reinforcement Mats (TRM), Type 2 - Landlok 450 or Approved Equal	9040-1.08-R	SQUARE	42	
36	Additional Erosion Control Measures	Special	ALLOW	1	
37	Chain Link Fence	9060-1.08-A	LF	700	
38	Gates	9060-1.08-B	EA	2	
39	Removal of Fence	9060-1.08-E	LF	26	
Division 11 - Miscellaneous					
40	Mobilization	11,020-1.08A	LS	1	
Add Alternate 1					
AA.1	Additional Warranty, 1-Year Vegetation Establishment & Maintenance Period (to start after final payment)	9010-1.08-E	LS	1	

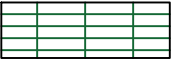
LEGEND

FEATURE

EXISTING

PROPOSED

TURF REINFORCEMENT MAT
PRODUCT, TYPE 2



SILT FENCE



CONSTRUCTION ENTRANCE



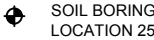
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EXISTING MINOR CONTOUR LINES — — — — 1407 — — — —

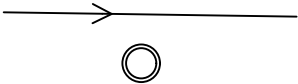
PROPOSED MAJOR CONTOUR LINES - - - - - 1400 - - - - -

PROPOSED MINOR CONTOUR LINES ————— 1407 —————

SOIL BORING LOCATION



CHAIN LINK FENCE ——— × ——— × ———
STORM SEWER LINE ——— ———> ———
STORM SEWER MANHOLE



PROPERTY BOUNDARY



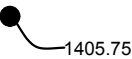
GRADE ARROWS

0.25%-->

SLOPE ARROW



SPOT ELEVATION ⬮ 1410.0



UTILITY CAUTION



6			
5			
4	02/01/2019	BR	100% FINAL SUBMITAL
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2	01/05/2018	BR	60% PRELIMINARY SUBMITTAL
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NO FOR CONSTRUCTION

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STATE PROJECT NO. ---	CITY PROJECT NO. ---

SCHEDULE OF ESTIMATED QUANTITIES & LEGEND
SHEET 02 OF 46 SHEETS

Plot Date: 12/24/2019
Drawing name: X:\clients_municipal\112_skrm_lake_a\0019_wastewater_treatment_facility_pond\09_gms_projectname\dwg\112-19_30_Plans\112-19_SEO_Construction_Submittals.dwg
Xrefs: 112_0019 XBase

GRADING & EROSION CONTROL NOTES

1.

CONTRACTOR TO VERIFY THE LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO BEGINNING ANY CONSTRUCTION BY CALLING IOWA ONE CALL AT 1-800-292-8989.
2.

CONTRACTOR SHALL FIELD VERIFY THE LOCATIONS AND ELEVATIONS OF EXISTING UTILITIES AND TOPOGRAPHIC FEATURES PRIOR TO START OF SITE GRADING. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY DISCREPANCIES OR VARIATIONS.
3.

CONTRACTOR SHALL BE RESPONSIBLE FOR ALL HORIZONTAL AND VERTICAL CONTROL.
4.

ACCEPTANCE OF INSTALLED PERIMETER EROSION CONTROL, AND CONSTRUCTION ENTRANCE MUST BE MADE BEFORE BEGINNING SITE GRADING ACTIVITIES. SOME TEMPORARY EROSION CONTROL MEASURES MAY BE INSTALLED AS GRADING OCCURS IN THE SPECIFIC AREA. MAINTAIN EROSION CONTROLS THROUGHOUT THE GRADING PROCESS AND REMOVE UPON APPROVAL OF ENGINEER.
5.

CONTRACTOR TO ADHERE TO ALL REQUIREMENTS OF CITY, COUNTY, STATE AND N.P.D.E.S PERMITS.
6.

ALL EXPOSED SOIL AREAS WITHIN 100 FEET OF A WATER OF THE STATE OR ANY STORMWATER CONVEYANCE SYSTEM WHICH IS CONNECTED TO A WATER OF THE STATE MUST BE STABILIZED WITHIN 24 HOURS.
7.

ALL CONSTRUCTION ENTRANCES SHALL BE SURFACED WITH CRUSHED ROCK ACROSS FULL WIDTH FROM ENTRANCE POINT INTO THE CONSTRUCTION ZONE PER SUDAS SPECIFICATIONS.
8.

ALL EROSION CONTROL MEASURES SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH CITY, COUNTY, STATE AND N.P.D.E.S. PERMITS.
9.

THE CONTRACTOR SHALL MAINTAIN ALL EROSION CONTROL MEASURES, INCLUDING THE REMOVAL OF ACCUMULATED SILT IN FRONT OF TEMPORARY EROSION CONTROL MEASURES THROUGHOUT CONSTRUCTION.
11.

MAINTAIN EXISTING EROSION CONTROL. RE-ESTABLISH ANY EXISTING EROSION CONTROL DISTURBED BY CONSTRUCTION.
12.

CONTRACTOR SHALL PROVIDE ADDITIONAL TEMPORARY EROSION CONTROL MEASURES AS REQUIRED FOR CONSTRUCTION OR AS REQUIRED BY ENGINEER.
13.

REMOVE ALL EROSION CONTROL MEASURES UPON APPROVAL OF ENGINEER.
14.

THE CONTRACTOR SHALL REMOVE ALL SOILS AND SEDIMENT TRACKED ONTO EXISTING STREETS AND PAVED AREAS WITHIN 24 HOURS OF DISCOVERY OR AS REQUESTED BY ENGINEER.
16.

IF BLOWING DUST IS DEEMED A NUISANCE BY ENGINEER, OWNER, PERMITTING AUTHORITIES, OR ADAJCENT LAND OWNERS, THE CONTRACTOR SHALL APPLY WATER FROM A TANK TRUCK OR APPROVED EQUAL TO ALL CONSTRUCTION AREAS IMMEDIATELY.
17.

SWEEP ADJACENT STREETS WITH SWEEPER AND PICK-UP BROOM IN ACCORDANCE WITH CITY, COUNTY, STATE, AND N.P.D.E.S. PERMIT REQUIREMENTS.
18.

INSPECT EROSION CONTROL DEVICES AFTER EACH RAINFALL PER SUDAS AND SPECIAL PROVISIONS. IMMEDIATELY REPAIR FAILED OR FAILING EROSION CONTROL DEVICES.
19.

SEE SPECIFICATIONS FOR COMPACTION REQUIREMENTS. NOTIFY ENGINEER 72 HOURS, MINIMUM FOR CRITICAL AREAS RECEIVING COMPACTION TESTING SO ADEQUATE INSPECTION CAN TAKE PLACE. FAILURE TO NOTIFY ENGINEER MAY RESULT IN CORRECTIVE WORK PERFORMED AT CONTRACTOR'S EXPENSE.
20.

ALL GREEN SPACE AREAS TO BE DECOMPACTED TO A MINIMUM 12" DEPTH PRIOR TO RECEIVING MINIMUM 8" TOPSOIL. PROJECT REQUIRES DECOMPACTION OF ALL AREAS RECEIVING VEGETATION.
21.

SEE SUDAS SECTION 2010, EARTHWORK, SUBGRADE, AND SUBBASE FOR ALL EXCAVATION RELATED WORK AND QUALITY CONTROL.
22.

SEE SUDAS SECTION 4020, STORM SEWER AND STANDARD DETAILS FOR STORM SEWER INSTALLATION AND QUALITY CONTROL.
23.

SEE SUDAS SECTION 6010, STRUCTURES FOR SANITARY AND STORM SEWER, FOR STORM SEWER STRUCTURES INSTALLATION AND QUALITY CONTROL.
24.

REVIEW SPECIAL PROVISIONS FOR MODIFICATIONS TO IDOT OR SUDAS SPECIFICATIONS.
25.

EARTHWORK ASSUMPTIONS

A.

SEE CONTRACT DOCUMENTS FOR INCLUSIONS, INCLUDING BUT NOT LIMITED TO MEASUREMENT & PAYMENT.

B.

ALL QUANTITIES ARE PLAN (P) QUANTITIES.

C.

TOPSOIL STRIPPING INCLUDES A SUBCUT OF 12" DEEP FOR SOIL HANDLING IN ADDITION TO CUT TO FILL, AND AS SUCH IS INCLUDED IN QUANTITY FOR EXCAVATION.

GENERAL LANDSCAPE NOTES

1.

LANDSCAPE CONTRACTOR SHALL INSPECT THE SITE AND BECOME FAMILIAR WITH EXISTING CONDITIONS RELATING TO THE NATURE AND SCOPE OF WORK.
2.

LANDSCAPE CONTRACTOR SHALL VERIFY PLAN LAYOUT AND BRING TO THE ATTENTION OF THE LANDSCAPE ARCHITECT DISCREPANCIES WHICH MAY COMPROMISE THE DESIGN OR INTENT OF THE LAYOUT.
3.

LANDSCAPE CONTRACTOR SHALL ASSURE COMPLIANCE WITH APPLICABLE CODES AND REGULATIONS GOVERNING THE WORK AND MATERIALS SUPPLIED.
4.

LANDSCAPE CONTRACTOR SHALL PROTECT EXISTING ROADS, CURBS/GUTTERS, TRAILS, TREES, LAWNS AND SITE ELEMENTS DURING CONSTRUCTION OPERATIONS. DAMAGE TO SAME SHALL BE REPAIRED AT NO ADDITIONAL COST TO THE OWNER.
5.

LANDSCAPE CONTRACTOR SHALL VERIFY ALIGNMENT AND LOCATION OF UNDERGROUND AND ABOVE GRADE UTILITIES AND PROVIDE THE NECESSARY PROTECTION FOR SAME BEFORE CONSTRUCTION BEGINS.
6.

LANDSCAPE CONTRACTOR SHALL REVIEW THE SITE FOR DEFICIENCIES IN SITE CONDITIONS WHICH MIGHT NEGATIVELY AFFECT PLANT ESTABLISHMENT, SURVIVAL OR WARRANTY. UNDESIRABLE SITE CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT PRIOR TO BEGINNING OF WORK.
7.

LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR ONGOING MAINTENANCE OF NEWLY INSTALLED MATERIALS UNTIL TIME OF FINAL ACCEPTANCE BY LANDSCAPE ARCHITECT. REPAIR OF ACTS OF VANDALISM OR DAMAGE WHICH MAY OCCUR PRIOR TO FINAL ACCEPTANCE SHALL BE THE RESPONSIBILITY OF THE LANDSCAPE CONTRACTOR.
8.

EXISTING TREES TO REMAIN, UPON DIRECTION OF LANDSCAPE ARCHITECT, SHALL BE FERTILIZED AND PRUNED TO REMOVE DEAD WOOD, DAMAGED AND RUBBING BRANCHES.
9.

LANDSCAPE CONTRACTOR SHALL PREPARE AND SUBMIT A WRITTEN REQUEST FOR THE SUBSTANTIAL COMPLETION INSPECTION OF LANDSCAPE AND SITE IMPROVEMENTS PRIOR TO SUBMITTING FINAL PAY REQUEST.

PLANTING NOTES

1.

NO PLANTS WILL BE INSTALLED UNTIL FINAL GRADING AND CONSTRUCTION HAS BEEN COMPLETED IN THE IMMEDIATE AREA
2.

SEE SUDAS FOR SEEDING AND SHRUB PLANTING DETAILS AND INSTRUCTIONS
3.

PROPOSED PLANT MATERIAL SHALL COMPLY WITH THE CURRENT EDITION OF THE AMERICAN STANDARD FOR NURSERY STOCK, ANSI Z60.1. UNLESS NOTED OTHERWISE, DECIDUOUS SHRUBS SHALL HAVE AT LEAST 5 CANES AT THE SPECIFIED HEIGHT. ORNAMENTAL TREES SHALL HAVE NO 'V' CROTCHES AND SHALL BEGIN BRANCHING NO LOWER THAN 3' FEET ABOVE THE ROOT BALL.
4.

PLANT SYMBOLS ON PLAN DRAWING TAKES PRECEDENCE OVER PLANT SCHEDULE IF DISCREPANCIES IN QUANTITIES EXIST. SPECIFICATIONS AND DETAILS TAKE PRECEDENCE OVER NOTES.
5.

TREES SHALL BE LOCATED AND STAKED AS SHOWN ON PLAN. LANDSCAPE ARCHITECT MUST APPROVE STAKING OF PLANT MATERIAL PRIOR TO DIGGING.
6.

NO PLANT MATERIAL SUBSTITUTIONS WILL BE ACCEPTED UNLESS APPROVAL IS GRANTED IN WRITING BY THE LANDSCAPE ARCHITECT TO THE LANDSCAPE CONTRACTOR.
7.

ADJUSTMENTS IN LOCATION OF PROPOSED PLANT MATERIALS MAY BE NEEDED IN FIELD. LANDSCAPE ARCHITECT MUST BE NOTIFIED PRIOR TO ADJUSTMENT OF PLANTS.
8.

PLANT MATERIALS TO BE INSTALLED PER SUDAS PLANTING DETAILS.
9.

WATER ALL PLANT MATERIAL WITHIN 2 HOURS OF PLANTING. APPLY ENOUGH WATER TO THOROUGHLY SATURATE ALL PLANTING SOIL.
10.

SHRUBS AND PERENNIALS SHALL BE PLANTED INTO EROSION CONTROL BLANKET, WHERE APPLICABLE, WITH AS MINIMAL DISTURBANCE TO BLANKET AS NEEDED FOR PLANTING.
11.

ALL TREE PLANTINGS TO RECEIVE 3' DIA. RING OF SHREDDED HARDWOOD MULCH (3" DEPTH). MULCH SHALL BE INCIDENTAL.
12.

ALL SHRUB BEDS TO RECEIVE 3" DEPTH HARDWOOD MULCH.
13.

LANDSCAPE CONTRACTOR SHALL WARRANTY NEW PLANT MATERIAL THROUGH TWO (2) CALENDAR YEARS FROM THE DATE OF FINAL ACCEPTANCE. NO PARTIAL ACCEPTANCE WILL BE CONSIDERED.

SEEDING NOTES

1.

ALL SEED SHALL BE SPREAD USING A TRILLION BROADCAST SEEDER OR OTHER APPROVED METHOD.
2.

SEEDED AREAS THAT ARE NOT TO RECEIVE EROSION CONTROL BLANKET SHALL BE MULCHED WITH BONDED FIBER MATRIX AFTER BROADCAST SPREADING PER SUDAS SPEC. 9040-2.16-B.2.
3.

MODIFICATIONS TO SEEDING AND PLANTING DATES SHALL BE APPROVED BY LANDSCAPE ARCHITECT, IN WRITING, PRIOR TO COMMENCING.
4.

ALL DISTURBED AREAS TO BE SEEDED PER PLANS. IF AREAS DISTURBED ARE NOT ON PLANS - VERIFY RESTORATION TREATMENT WITH PROJECT ENGINEER

NATIVE SEEDING MAINTENANCE & EVALUATION

YEAR 1 Maintenance after Spring or Early Summer Seeding:

- 1)

MOW ENTIRE AREA TO 6- TO 8-INCH HEIGHT EVERY 30 DAYS AFTER PLANTING UNTIL SEPTEMBER 30.
- 2)

SPOT SPRAY INVASIVE WEEDS (THISTLE, ETC.) PRIOR TO SEED DISBURSEMENT WITH GLYPHOSATE HERBICIDE.

YEAR 1 Maintenance after Fall or Dormant Seeding:

- 1)

MOW ENTIRE AREA THREE TIMES TO 6- TO 8-INCH HEIGHT; ONCE IN MAY, ONCE IN JUNE, AND ONCE IN JULY.
- 2)

SPOT SPRAY INVASIVE WEEDS (THISTLE, ETC.) PRIOR TO SEED DISBURSEMENT WITH GLYPHOSATE HERBICIDE.

YEAR 1 Site Evaluation:

- 1)

COVER CROP GROWING WITHIN 2 WEEKS OF PLANTING (EXCEPT DORMANT SEEDING).
- 2)

SEEDLINGS SPACED 1- TO 6-INCHES APART IN DRILL ROWS.
- 3)

NATIVE GRASS SEEDLINGS MAY ONLY BE 4- OT 6-INCHES IN HEIGHT.
- 4)

MOW AS NECESSARY WHEN THERE IS A FLUSH OF GROWTH FROM FOXTAIL, OR SIMILAR SPECIES.

YEAR 2 Maintenance:

- 1)

MOW ENTIRE AREA TO 6- TO 8-INCH HEIGHT ONE TIME BETWEEN JUNE 1 AND AUGUST 15, BEFORE WEED SEEDS SET.
- 2)

SPOT SPRAY INVASIVE WEEDS (THISTLE, ETC.) PRIOR TO SEED DISBURSEMENT WITH GLYPHOSATE HERBICIDE.

YEAR 2 Evaluation:

- 1)

COVER CROP WILL BE GONE UNLESS WINTER WHEAT WAS USED IN A FALL PLANTING.
- 2)

GRASSES ARE FORMING CLUMPS 1- TO 6-INCHES APART IN DRILL ROWS, BUT STILL SHORT.
- 3)

SOME WILDFLOWER SPECIES ARE BLOOMING (BLACK-EYED SUSAN, BERGAMOT, ETC.).
- 4)

MOW AS NECESSARY WHEN THERE IS A FLUSH OF GROWTH FROM FOXTAIL, OR SIMILAR SPECIES.

YEAR 3 Maintenance:

- 1)

MOW ENTIRE AREA TO 6- TO 8-INCH HEIGHT ONE TIME BETWEEN JUNE 1 AND AUGUST 15, BEFORE WEED SEEDS SET.
- 2)

SPOT SPRAY INVASIVE WEEDS (THISTLE, ETC.) PRIOR TO SEED DISBURSEMENT WITH GLYPHOSATE HERBICIDE.

YEAR 3 Evaluation:

- 1)

COVER CROP WILL BE GONE UNLESS WINTER WHEAT WAS USED IN A FALL PLANTING.
- 2)

GRASSES ARE FORMING CLUMPS 1- TO 6-INCHES APART IN DRILL ROWS, BUT STILL SHORT.
- 3)

SOME WILDFLOWER SPECIES ARE BLOOMING (BLACK-EYED SUSAN, BERGAMOT, ETC.).
- 4)

MOW AS NECESSARY WHEN THERE IS A FLUSH OF GROWTH FROM FOXTAIL, OR SIMILAR SPECIES.

6			
5			
4	02/01/2019	BR	100% FINAL SUBMITAL
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2	01/05/2018	BR	60% PRELIMINARY SUBMITTAL
1	03/17/2017	BR	30% PRELIMINARY SUBMITTAL
NO	DATE	BY	REVISION



Know what's below.
Call before you dig.



1-800-292-8989

FOR CONSTRUCTION

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water ecology community

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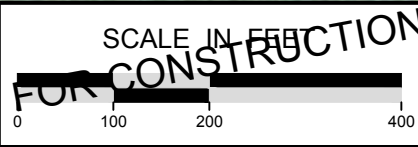
WASTEWATER TREATMENT PLANT WETLANDS STORM LAKE, BUENA VISTA COUNTY, IOWA	
STATE PROJECT NO. ---	CITY PROJECT NO. ---

GENERAL NOTES
SHEET 03 OF 46 SHEETS

Plot Date: 12/24/2019
Drawing Name: X:\clients_municipal\112_storm_lake_a\0018_wastewater_treatment_facility_pond\09_gms_projectname\dwg\1112-19_30_Plans\1112-19_Existing_Conditions.dwg
Xrefs: 1112_2019 XBase



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WASTEWATER TREATMENT PLANT
WETLANDS
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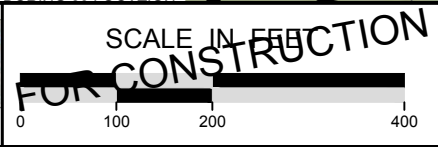
STATE PROJECT NO. --- CITY PROJECT NO. ---

EXISTING CONDITIONS - AREA 1
SHEET 04 OF 46 SHEETS

Plot Date: 12/24/2019
Drawing name: X:\clients_municipal_wastewater_treatment_facility_pond09_gmz_projectname\dwg\1112-19_30_Plans\1112-19_30_Existing_Conditions.dwg
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WASTEWATER TREATMENT PLANT
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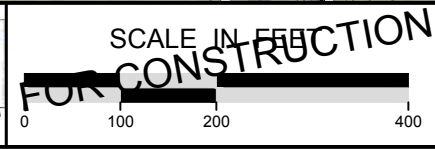
EXISTING CONDITIONS - AREA 2

SHEET 05 OF 46 SHEETS

Plot Date: 12/24/2019
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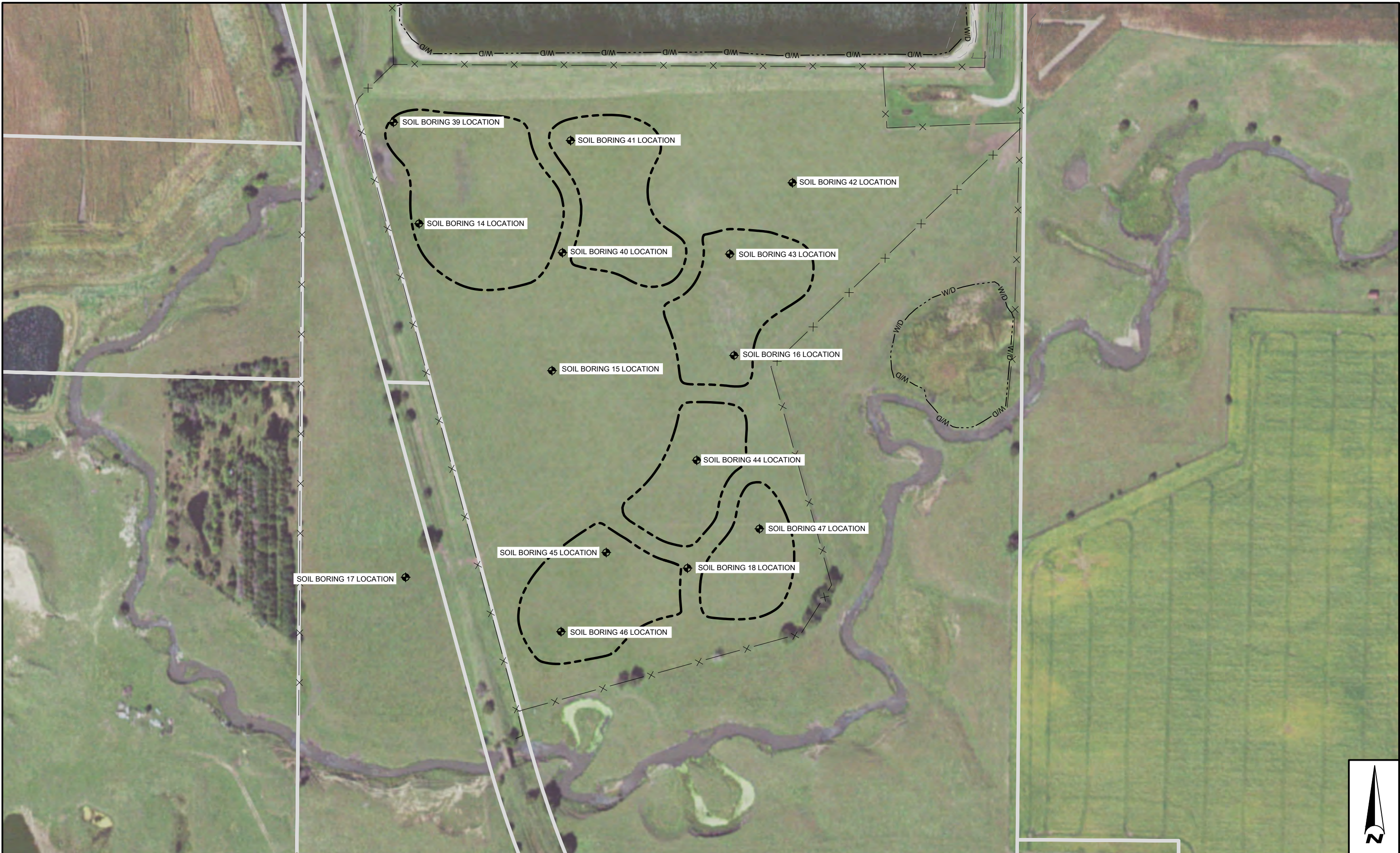
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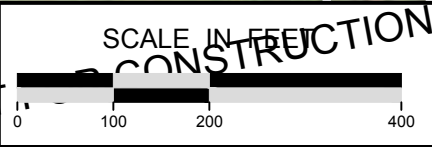
WASTEWATER TREATMENT PLANT
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EXISTING CONDITIONS - AREA 3
SHEET 06 OF 46 SHEETS

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Drawing name: X:\clients_municipal\1112_storm_lake_a\0018_wastewater_treatment_facility_pond\09_gms_projects\1112-19_30_Plans\1112-19_Soil_Boring_Locations.dwg
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NO	DATE	BY	REVISION



SUBMISSION DATE: 10/25/2017	
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WASTEWATER TREATMENT PLANT
WETLANDS
STORM LAKE, BUENA VISTA COUNTY,
IOWA

STATE PROJECT NO. --- CITY PROJECT NO. ---

SOIL BORING LOCATION MAP

SHEET 07 OF 46 SHEETS

Plot Date: 12/24/2019
Drawing Name: X:\clients_municipal\112_storm_lake_a\0018_wastewater_treatment_facility_pond\09_gms_projects\dwg\112-19_30_Plans\112-19_Soil_Boring_Locations.dwg
Xrefs: 112_2019_XBase

6			
5			
4	02/01/2019	BR	100% FINAL SUBMITAL
3	07/03/2018	BR	90% PRELIMINARY SUBMITTAL
2	01/05/2018	BR	60% PRELIMINARY SUBMITTAL
1	03/17/2017	BR	30% PRELIMINARY SUBMITTAL
NO	DATE	BY	REVISION



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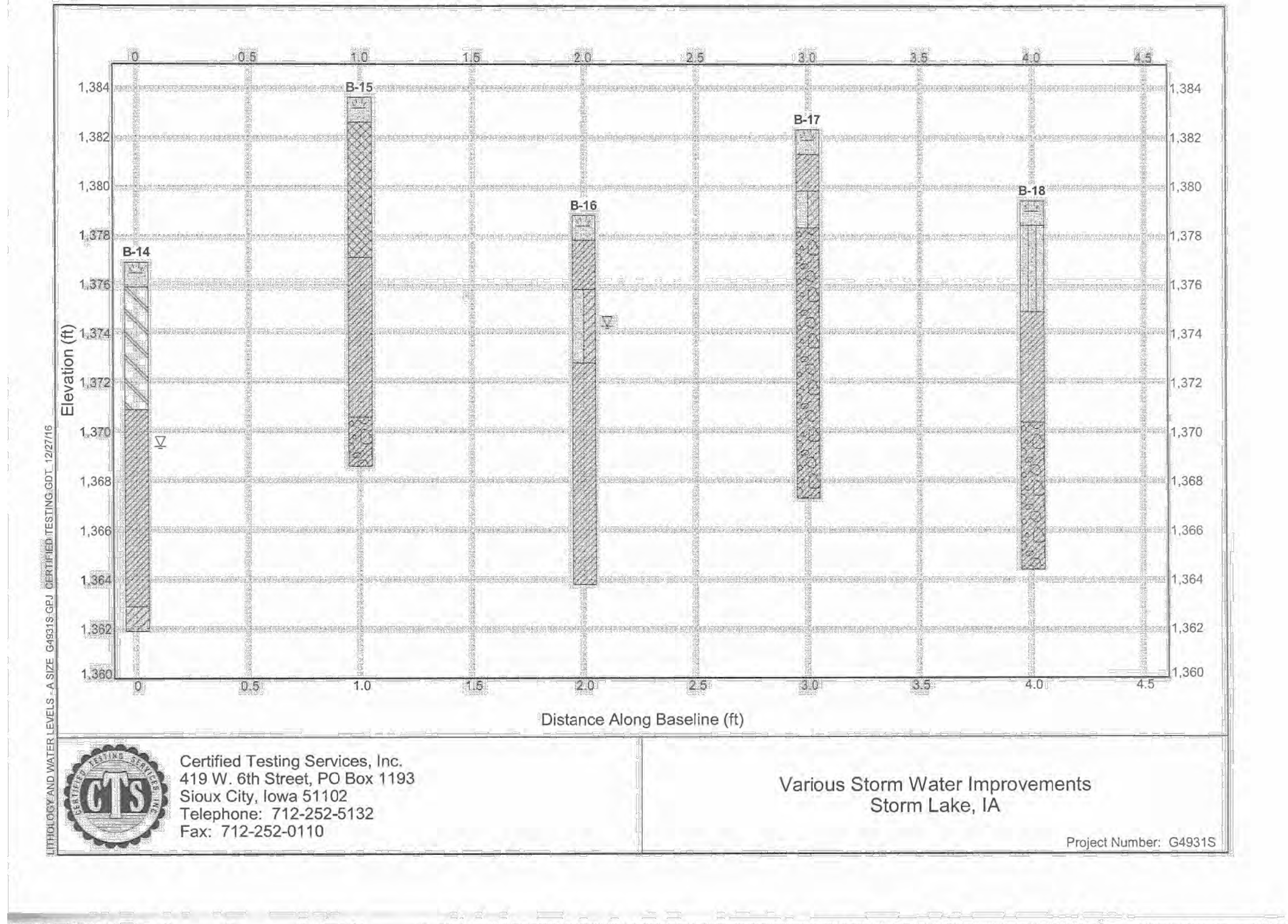
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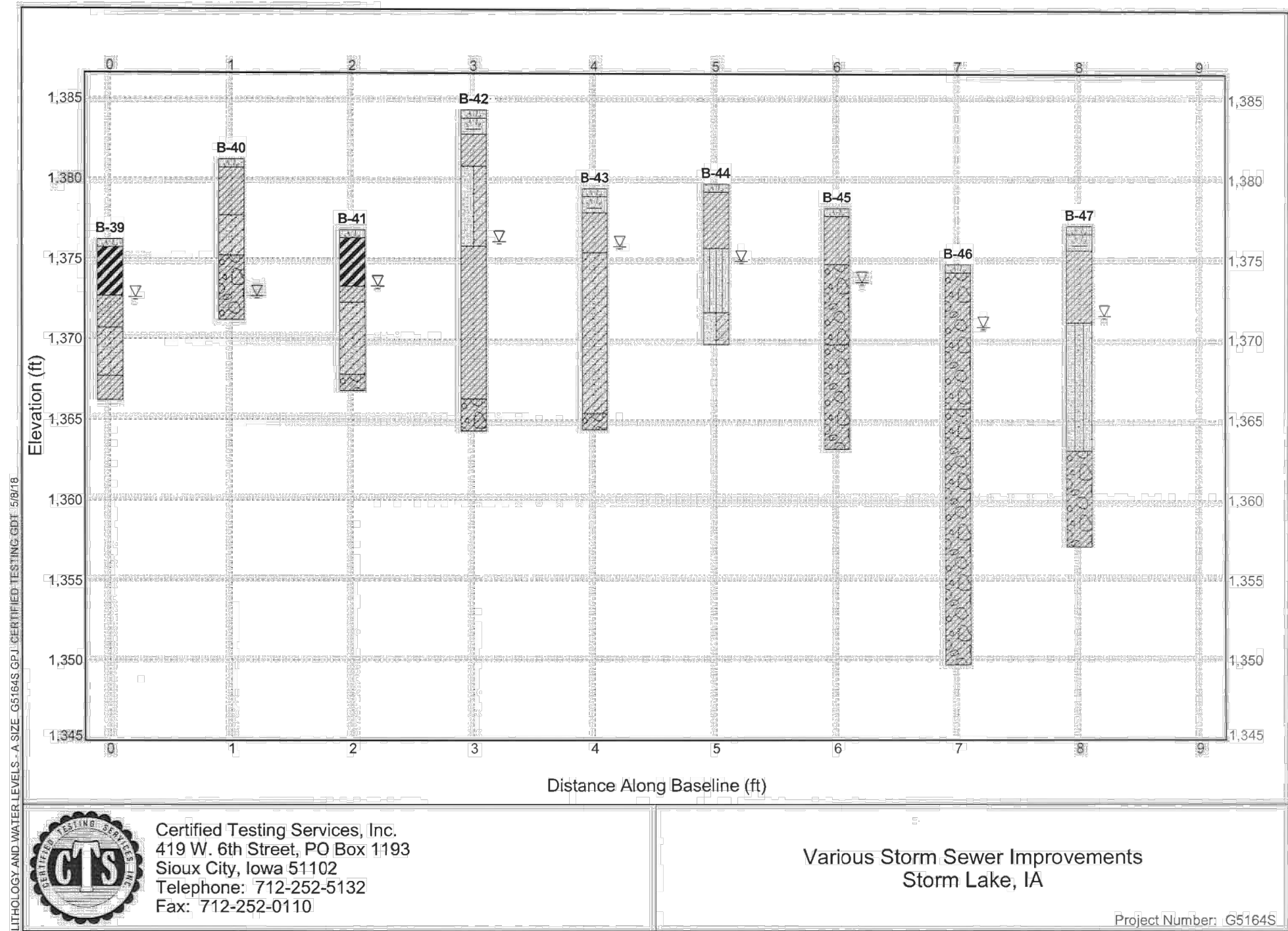
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WASTEWATER TREATMENT PLANT WETLANDS STORM LAKE, BUENA VISTA COUNTY, IOWA
STATE PROJECT NO. --- CITY PROJECT NO. ---

SOIL BORING DATA SHEET 1
SHEET 08 OF 46 SHEETS



Plot Date: 12/24/2019
Drawing Name: X:\clients_municipal\112_storm_lake_a\0019_wastewater_treatment_facility_pond\09_gms_projectname\dwg\112-19_30_Plans\112-19_Soil_Boring_Locations.dwg
Xrefs: 112_0019 X-Base



6			
5			
4	02/01/2019	BR	100% FINAL SUBMITAL
3	07/03/2018	BR	90% PRELIMINARY SUBMITTAL
2	01/05/2018	BR	60% PRELIMINARY SUBMITTAL
1	03/17/2017	BR	30% PRELIMINARY SUBMITTAL
NO	DATE	BY	REVISION



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SOIL BORING DATA SHEET 2
SHEET 09 OF 46 SHEETS

P:\112-19\112-19-30_Plan\112-19-30_Plan\112-19-30_Plan\112-19-30_Plan.dwg
Xrefs: 112_2019 XBase
Plot Date: 12/24/2019
Drawing name: X:\clients_municipal\112_storm_lake_a\0018_wastewater_treatment_facility_pond\09_gms_projects\112-19-30_Plan\112-19-30_Plan.dwg

SOIL CLASSIFICATION CHART

MAJOR DIVISIONS			SYMBOLS		TYPICAL DESCRIPTIONS		
			GRAPH	LETTER			
COARSE GRAINED SOILS	GRAVEL AND GRAVELLY SOILS	CLEAN GRAVELS		GW	WELL-GRADED GRAVELS, GRAVEL - SAND MIXTURES, LITTLE OR NO FINES		
		(LITTLE OR NO FINES)		GP	POORLY-GRADED GRAVELS, GRAVEL - SAND MIXTURES, LITTLE OR NO FINES		
		GRAVELS WITH FINES		GM	SILTY GRAVELS, GRAVEL - SAND - SILT MIXTURES		
		(APPRECIABLE AMOUNT OF FINES)		GC	CLAYEY GRAVELS, GRAVEL - SAND - CLAY MIXTURES		
	SAND AND SANDY SOILS	CLEAN SANDS		SW	WELL-GRADED SANDS, GRAVELLY SANDS, LITTLE OR NO FINES		
		(LITTLE OR NO FINES)		SP	POORLY-GRADED SANDS, GRAVELLY SAND, LITTLE OR NO FINES		
		SANDS WITH FINES		SM	SILTY SANDS, SAND - SILT MIXTURES		
		(APPRECIABLE AMOUNT OF FINES)		SC	CLAYEY SANDS, SAND - CLAY MIXTURES		
FINE GRAINED SOILS	SILTS AND CLAYS	LIQUID LIMIT LESS THAN 50		ML	INORGANIC SILTS AND VERY FINE SANDS, ROCK FLOUR, SILTY OR CLAYEY FINE SANDS OR CLAYEY SILTS WITH SLIGHT PLASTICITY		
				CL	INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY, GRAVELLY CLAYS, SANDY CLAYS, SILTY CLAYS, LEAN CLAYS		
				OL	ORGANIC SILTS AND ORGANIC SILTY CLAYS OF LOW PLASTICITY		
	SILTS AND CLAYS	LIQUID LIMIT GREATER THAN 50		MH	INORGANIC SILTS, MICACEOUS OR DIATOMACEOUS FINE SAND OR SILTY SOILS		
				CH	INORGANIC CLAYS OF HIGH PLASTICITY		
				OH	ORGANIC CLAYS OF MEDIUM TO HIGH PLASTICITY, ORGANIC SILTS		
			HIGHLY ORGANIC SOILS			PT	PEAT, HUMUS, SWAMP SOILS WITH HIGH ORGANIC CONTENTS

NOTE: DUAL SYMBOLS ARE USED TO INDICATE BORDERLINE SOIL CLASSIFICATIONS

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5			
4	02/01/2019	BR	100% FINAL SUBMITAL
3	07/03/2018	BR	90% PRELIMINARY SUBMITTAL
2	01/05/2018	BR	60% PRELIMINARY SUBMITTAL
1	03/17/2017	BR	30% PRELIMINARY SUBMITTAL
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STATE PROJECT NO. --- CITY PROJECT NO. ---

SOIL BORING DATA SHEET 3	
SHEET 10 OF 46 SHEETS	

Plot Date: 12/24/2019
Drawing Name: X:\clients_municipal\1112_storm_lake_a\0018_wastewater_treatment_facility_pond\09_gms_projects\1112-19_30_Plans\1112-19_Soil_Boring_Locations.dwg
Xrefs: 1112_0019 XBase



CONTRACTOR TO PROTECT AND MAINTAIN
CONTROL POINT/BENCH MARKS DURING
THE DURATION OF CONSTRUCTION

HORIZONTAL SURVEY CONTROL -
IOWA NORTH GRID COORDINATES

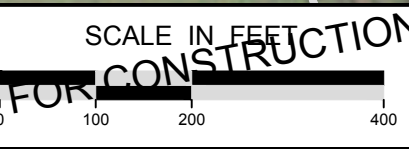
BENCHMARK - NAVD 88

BENCHMARK TABLE

I.D	NORTHING	EASTING	ELEVATION	DESCRIPTION
CP 101	3683482.1070	4475138.1920	1372.57	WOODEN STAKE LOCATED SOUTH EAST CORNER OF PROJECT
CP 102	3683594.4570	4474334.7780	1387.11	WOODEN STAKE LOCATED WEST CENTRAL SIDE OF PROJECT
CP 103	3684272.8470	4475536.7310	1383.78	WOODEN STAKE LOCATED NORTH EAST CORNER OF PROJECT



6			
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4	02/01/2019	BR	100% FINAL SUBMITAL
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1	03/17/2017	BR	30% PRELIMINARY SUBMITTAL
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c o m m u n i t y w w w . e o r i n c . c o m



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WETLANDS
STORM LAKE, BUENA VISTA COUNTY,
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STATE PROJECT NO. --- CITY PROJECT NO. ---

SURVEY CONTROL PLAN
SHEET 11 OF 46 SHEETS



LEGEND

RG RAIN GAUGE

SWPPP SWPPP LOCATION

PROJECT SIGN LOCATION AND
PROJECT ENTRANCE

Plot Date: 12/24/2019
Drawing name: X:\clients_municipal\1112_storm_lake_a\0019_wastewater_treatment_facility_pond\09_gms_projects\dwg\1112-19_30_Plans\1112-19_Grading and Drainage.dwg
Xrefs: 1112_0019-XBase2; 1112_0019-F-Grading and Drainage

6			
5			
4	02/01/2019	BR	100% FINAL SUBMITAL
3	07/03/2018	BR	90% PRELIMINARY SUBMITTAL
2	01/05/2018	BR	60% PRELIMINARY SUBMITTAL
1	03/17/2017	BR	30% PRELIMINARY SUBMITTAL
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0 50 100 200

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STATE PROJECT NO. --- CITY PROJECT NO. ---

STORM WATER POLLUTION PREVENTION - AREA 1

SHEET 12 OF 46 SHEETS

Plot Date: 12/24/2019
Drawing Name: X:\clients_municipal\1112_storm_lake_wastewater_treatment_facility_pond\09_gms_projects\dwg\1112-19_30_Plans\1112-19_30_Grading and Drainage.dwg
Xrefs: 1112_0019 XBase2; 1112_0019-F-Grading and Drainage



LEGEND

PT

PORTABLE TOILET

WASH

CONCRETE WASHOUT STATION

FUEL

FUELING STATION

6			
5			
4	02/01/2019	BR	100% FINAL SUBMITAL
3	07/03/2018	BR	90% PRELIMINARY SUBMITTAL
2	01/05/2018	BR	60% PRELIMINARY SUBMITTAL
1	03/17/2017	BR	30% PRELIMINARY SUBMITTAL
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0

100

200

400

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STATE PROJECT NO. ---CITY PROJECT NO. ---

STORM WATER POLLUTION PREVENTION - AREA 2

SHEET 13 OF 46 SHEETS

Plot Date: 12/24/2019
Drawing Name: X:\clients_municipal\1112_storm_lake_a\0018_wastewater_treatment_facility_pond\09_gms_projects\1112-19_30_Plans\1112-19_Erosion_Sediment_Control.dwg
Xrefs: 1112_0019-X-Base2, 1112_0019-P-Erosion and Sediment Control2, 1112_0019-P-Storm_Sewer2, 1112_0019-P-Grading and Drainage



6			
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3	07/03/2018	BR	90% PRELIMINARY SUBMITTAL
2	01/05/2018	BR	60% PRELIMINARY SUBMITTAL
1	03/17/2017	BR	30% PRELIMINARY SUBMITTAL
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100

200

400

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STATE PROJECT NO. ---CITY PROJECT NO. ---

EROSION AND SEDIMENT CONTROL PLAN - AREA 1

SHEET 14 OF 46 SHEETS

Plot Date: 12/24/2019
Drawing Name: X:\clients_municipal\112_storm_lake_a\0018_wastewater_treatment_facility_pond\09_gms_projects\dwg\1112-19_30_Plans\1112-19_Erosion_Sediment_Control.dwg
Xrefs: 1112_0019-XBase2, 1112_0019-P-Erosion and Sediment Control, 1112_0019-P-Storm Sewer2, 1112_0019-P-Grading and Drainage



6			
5			
4	02/01/2019	BR	100% FINAL SUBMITAL
3	07/03/2018	BR	90% PRELIMINARY SUBMITTAL
2	01/05/2018	BR	60% PRELIMINARY SUBMITTAL
1	03/17/2017	BR	30% PRELIMINARY SUBMITTAL
NO	DATE	BY	REVISION



SCALE IN FEET
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100 200 400

SUBMISSION DATE:
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EROSION AND SEDIMENT CONTROL PLAN - AREA 2
SHEET 15 OF 46 SHEETS

Plot Date: 12/24/2019
Drawing Name: X:\clients_municipal\1112_storm_lake_a\0018_wastewater_treatment_facility_pond\09_gms_projects\dwg\1112-19_30_Plans\1112-19_Erosion_Sediment_Control.dwg
Xrefs: 1112_0019-XBase2, 1112_0019-P-Erosion and Sediment Control2, 1112_0019-P-Storm_Sewer2, 1112_0019-P-Grading and Drainage



6			
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4	02/01/2019	BR	100% FINAL SUBMITAL
3	07/03/2018	BR	90% PRELIMINARY SUBMITTAL
2	01/05/2018	BR	60% PRELIMINARY SUBMITTAL
1	03/17/2017	BR	30% PRELIMINARY SUBMITTAL
NO	DATE	BY	REVISION



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100 200 400
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SUBMISSION DATE:
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DESIGN BY: DRL
DRAWN BY: BR
EOR PROJECT NO.:
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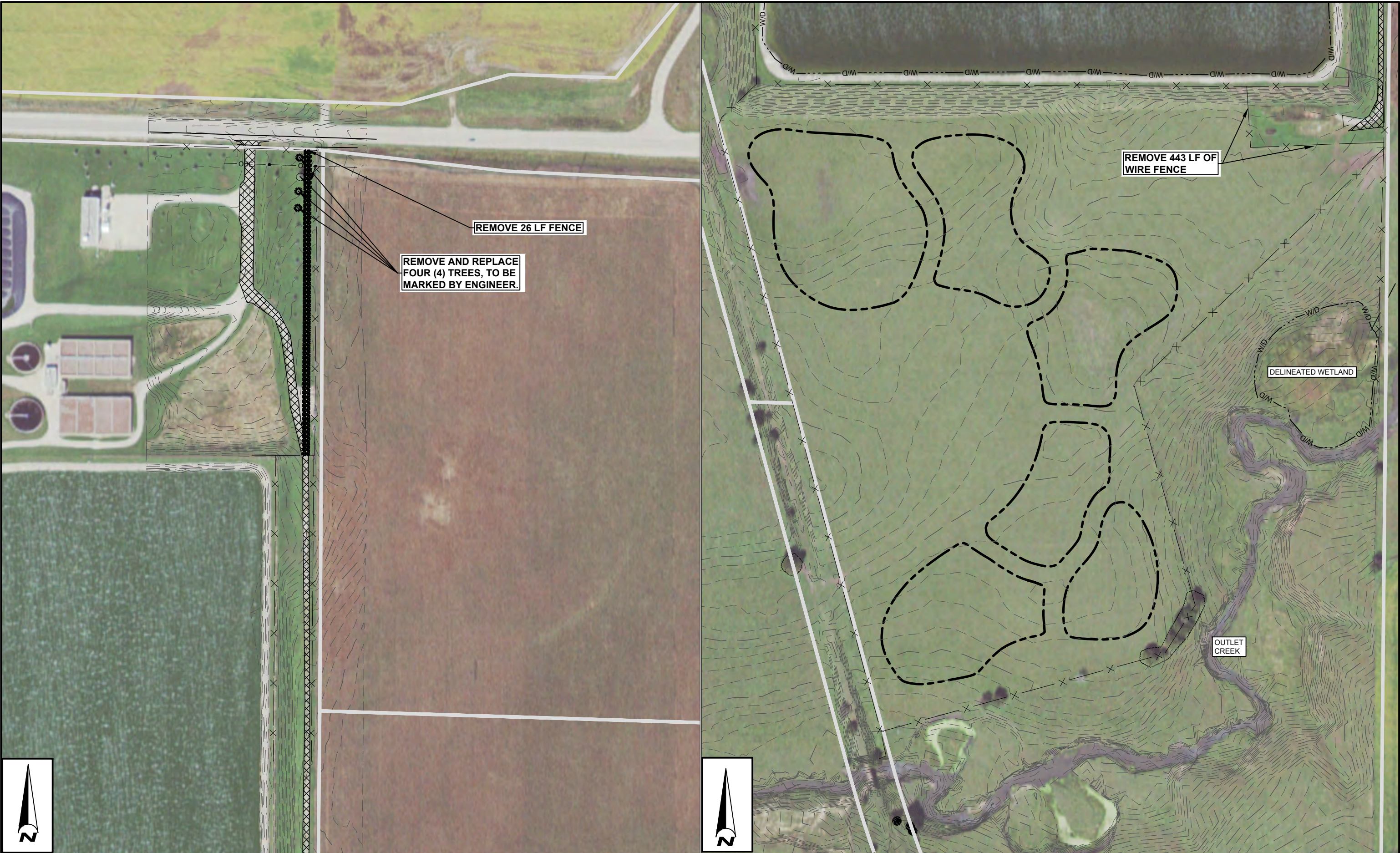
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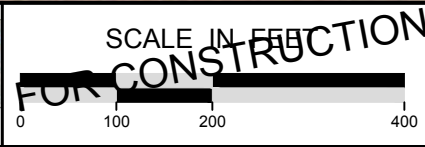
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STATE PROJECT NO. ---
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EROSION AND SEDIMENT CONTROL PLAN - AREA 3
SHEET 16 OF 46 SHEETS

Plot Date: 12/24/2019
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Xrefs: 1112_0019 X-Base



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2	01/05/2018	BR	60% PRELIMINARY SUBMITTAL
1	03/17/2017	BR	30% PRELIMINARY SUBMITTAL
NO	DATE	BY	REVISION



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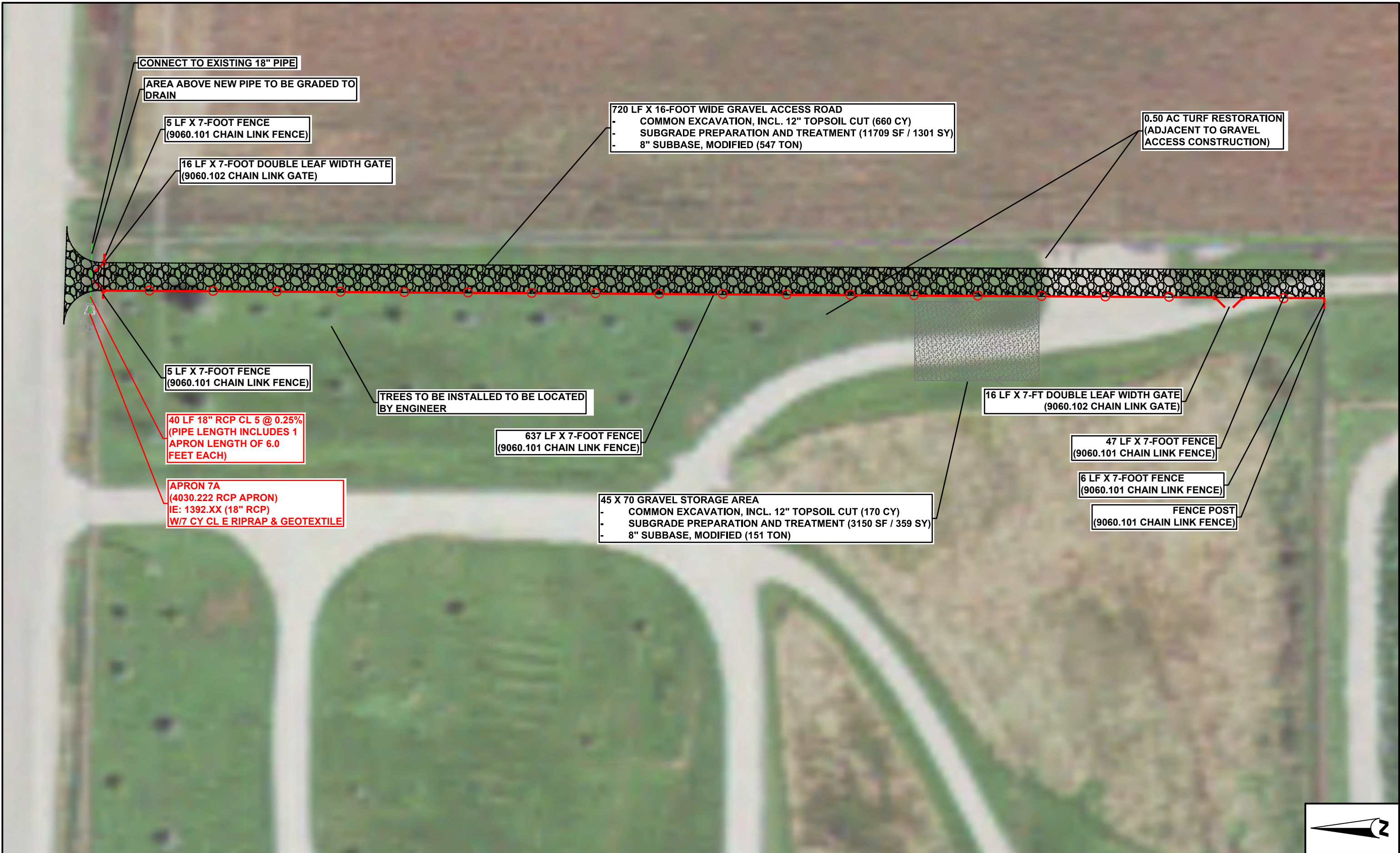
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DEMOLITION AND REMOVALS PLAN
SHEET 17 OF 46 SHEETS

Plot Date: 12/24/2019
Drawing Name: X:\clients_municipal\1112_storm_lake_a\0018_wastewater_treatment_facility_pond\09_gms_projects\dwg\1112-19_30_Plans\1112-19_Grading and Drainage.dwg
Xrefs: 1112_0019_XBase2; 1112_0019-F-Grading and Drainage



6			
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4	02/01/2019	BR	100% FINAL SUBMITAL
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2	01/05/2018	BR	60% PRELIMINARY SUBMITTAL
1	03/17/2017	BR	30% PRELIMINARY SUBMITTAL
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SITE ENTRANCE CONSTRUCTION PLAN	
SHEET 18 OF 46 SHEETS	

Plot Date: 12/24/2019
Drawing Name: X:\clients_municipal\1112_storm_lake_a\0018_wastewater_treatment_facility_pond\09_gms_projects\dwg\1112-19_30_Plans\1112-19_Grading and Drainage.dwg
Xrefs: 1112_0019 XBase2, 1112_0019 F-Grading and Drainage



6			
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4	02/01/2019	BR	100% FINAL SUBMITAL
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NO	DATE	BY	REVISION



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GRADING AND DRAINAGE PLAN
SHEET 19 OF 46 SHEETS



AREA 2

AREA 3

AREA 4

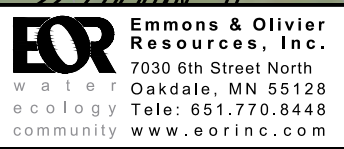
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2	01/05/2018	BR	60% PRELIMINARY SUBMITTAL
1	03/17/2017	BR	30% PRELIMINARY SUBMITTAL
NO	DATE	BY	REVISION



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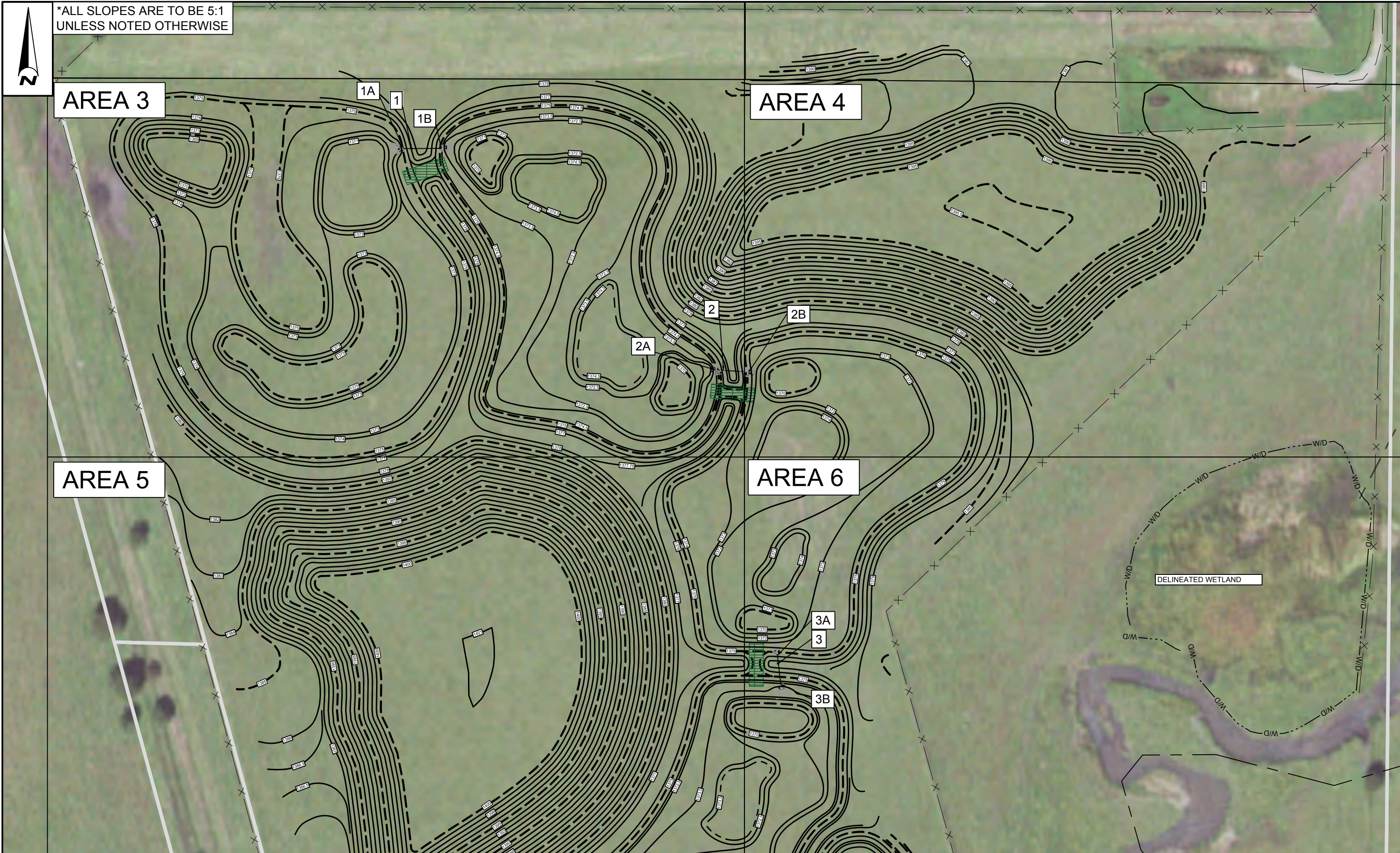
SUBMISSION DATE: 10/25/2017	
DESIGN BY DRL	DRAWN BY BR
EOR PROJECT NO. 01112-0019	



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STATE PROJECT NO. ---	CITY PROJECT NO. ---

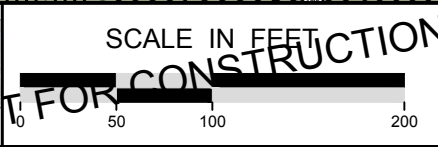
GRADING AND DRAINAGE PLAN - OVERVIEW 1

SHEET 20 OF 46 SHEETS



Plot Date: 10/24/2019
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Xrefs: 1112_0019-XBase2, 1112_0019-F-Grading and Drainage

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1	03/17/2017	BR	30% PRELIMINARY SUBMITTAL
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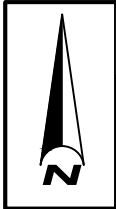


WASTEWATER TREATMENT PLANT
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GRADING AND DRAINAGE PLAN - OVERVIEW 2

SHEET 21 OF 46 SHEETS



*ALL SLOPES ARE TO BE 5:1
UNLESS NOTED OTHERWISE

AREA 5

AREA 6

AREA 7

AREA 8

DELINEATED WETLAND

OUTLET
CREEK

Plot Date: 12/24/2019
Drawing name: X:\clients_municipal\1112_storm_lake_a\0018_wastewater_treatment_facility_pond\09_gms_projects\dwg\1112-19_30_Plans\1112-19_Grading and Drainage.dwg
Xrefs: 1112_2019 XBase2; 1112_0019-F-Grading and Drainage

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2	01/05/2018	BR	60% PRELIMINARY SUBMITTAL
1	03/17/2017	BR	30% PRELIMINARY SUBMITTAL
NO	DATE	BY	REVISION



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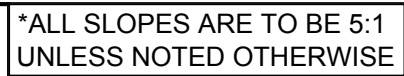
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GRADING AND DRAINAGE PLAN - OVERVIEW 3
SHEET 22 OF 46 SHEETS



*ALL SLOPES ARE TO BE 5:1
UNLESS NOTED OTHERWISE

AREA 1

AREA 2

AREA 1

AREA 3

1A

1

FOREBAY
W.S. ELEV. = 1374.50
DEPTH = 4.50'

AREA 3

AREA 4

6			
5			
4	02/01/2019	BR	100% FINAL SUBMITAL
3	07/03/2018	BR	90% PRELIMINARY SUBMITTAL
2	01/05/2018	BR	60% PRELIMINARY SUBMITTAL
1	03/17/2017	BR	30% PRELIMINARY SUBMITTAL
NO	DATE	BY	REVISION



SCALE IN FEET

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SUBMISSION DATE:
10/25/2017

DESIGN BY DRI	DRAWN BY RR
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EOR PROJECT NO.
01112-0019



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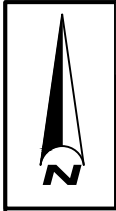


WASTEWATER TREATMENT PLANT
WETLANDS
STORM LAKE, BUENA VISTA COUNTY,
IOWA

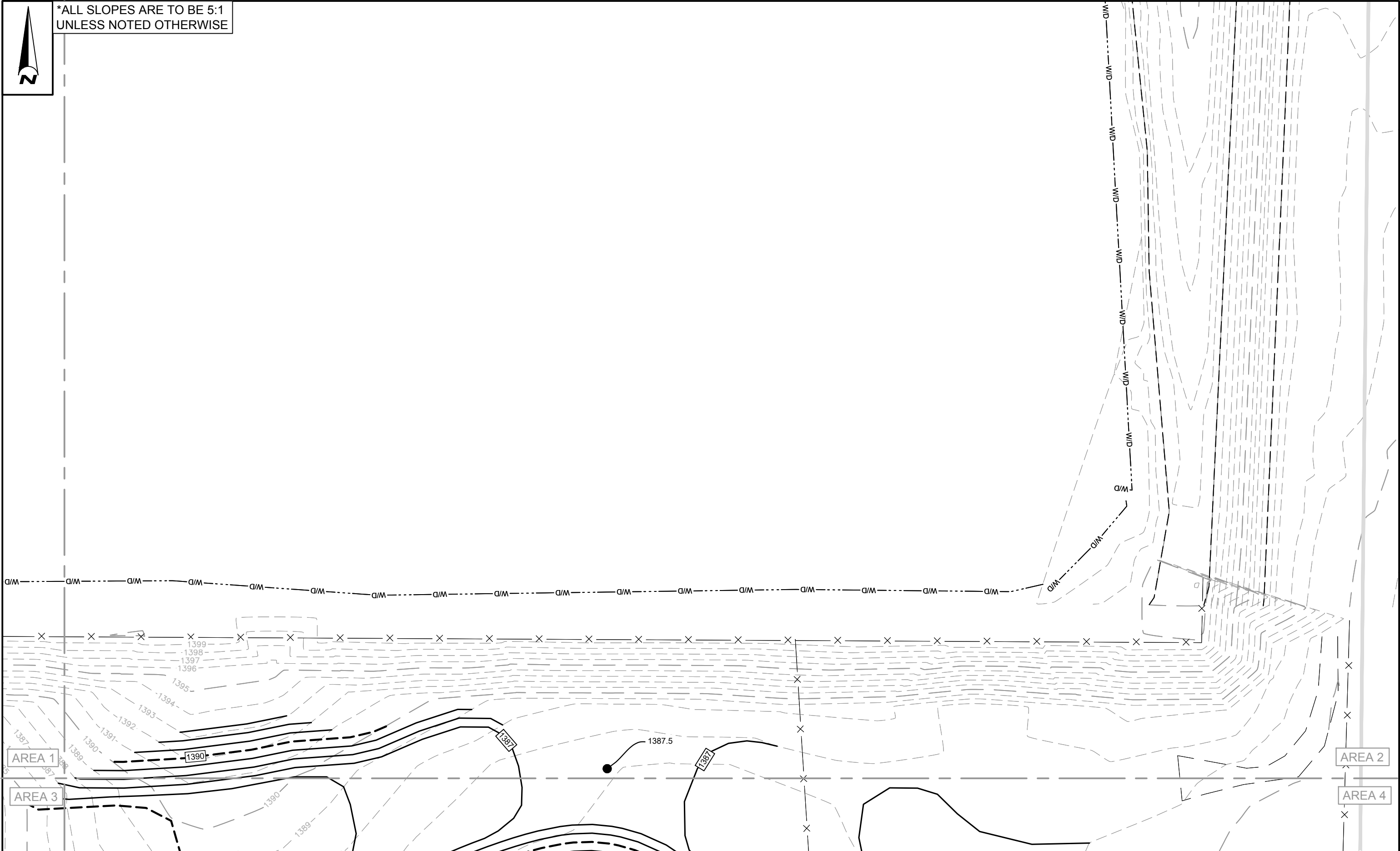
GRADING AND DRAINAGE PLAN - AREA 1

SHEET 23 OF 46 SHEETS

Plot Date: 02/04/2019
Drawing name: X:\clients_municipal\0112_storm_bike_iq\019_wastewater_treatment_facility_pond\09_gins_projectname\dwg\112-19_30_Plant\112-19_Grading and Drainage.dwg
Xaxis: 112_0019 x-Based, 112_0019-Grading and Drainage



*ALL SLOPES ARE TO BE 5:1
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6			
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4	02/01/2019	BR	100% FINAL SUBMITAL
3	07/03/2018	BR	90% PRELIMINARY SUBMITTAL
2	01/05/2018	BR	60% PRELIMINARY SUBMITTAL
1	03/17/2017	BR	30% PRELIMINARY SUBMITTAL
NO	DATE	BY	REVISION



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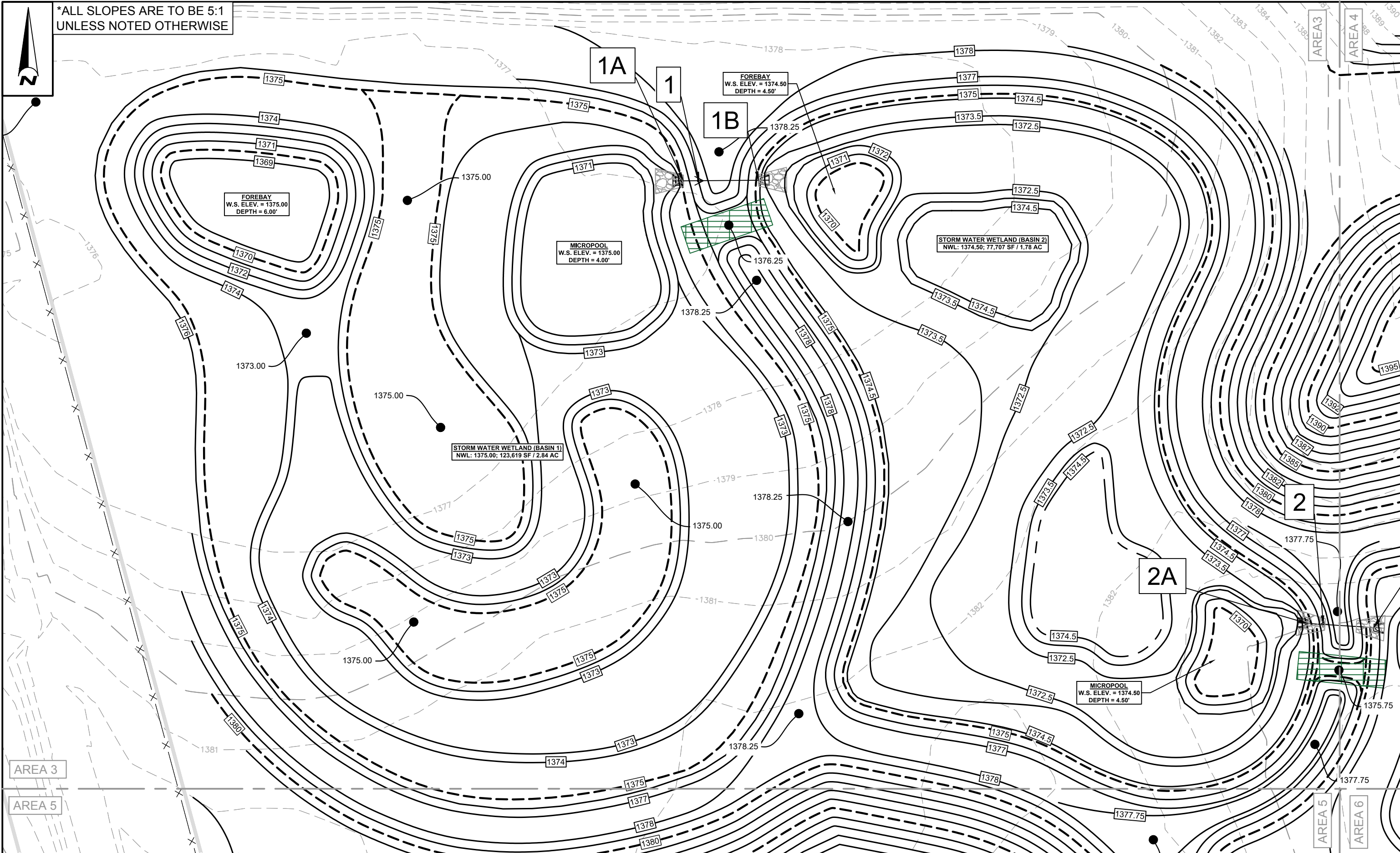
SUBMISSION DATE: 10/25/2017	
DESIGN BY DRL	DRAWN BY BR
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GRADING AND DRAINAGE PLAN - AREA 2
SHEET 24 OF 46 SHEETS



Plot Date: 12/24/2019
Drawing Name: X:\clients_municipal\112_storm_lake_a\0018_wastewater_treatment_facility_pond\09_gms_projects\dwg\112-19_30_Plans\112-19_Grading and Drainage.dwg
Xrefs: 1112_0019 XBase2; 1112_0019-F-Grading and Drainage

6			
5			
4	02/01/2019	BR	100% FINAL SUBMITAL
3	07/03/2018	BR	90% PRELIMINARY SUBMITTAL
2	01/05/2018	BR	60% PRELIMINARY SUBMITTAL
1	03/17/2017	BR	30% PRELIMINARY SUBMITTAL
NO	DATE	BY	REVISION



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GRADING AND DRAINAGE PLAN - AREA 3

SHEET 25 OF 46 SHEETS



*ALL SLOPES ARE TO BE 5:1
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Plot Date: 12/24/2019
Drawing name: X:\clients_municipal\1112_storm_lake_a\0019_wastewater_treatment_facility_pond\09_gms_projects\dwg\1112-19_30_Plans\1112-19_Grading and Drainage.dwg
Xrefs: 1112_0019_XBase.dwg, 1112_0019-F-Grading and Drainage

NO	DATE	BY	REVISION
6			
5			
4	02/01/2019	BR	100% FINAL SUBMITAL
3	07/03/2018	BR	90% PRELIMINARY SUBMITTAL
2	01/05/2018	BR	60% PRELIMINARY SUBMITTAL
1	03/17/2017	BR	30% PRELIMINARY SUBMITTAL



SCALE IN FEET
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0 25 50 100

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GRADING AND DRAINAGE PLAN - AREA 4
SHEET 26 OF 46 SHEETS



*ALL SLOPES ARE TO BE 5:1
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NO	DATE	BY	REVISION
6			
5			
4	02/01/2019	BR	100% FINAL SUBMITAL
3	07/03/2018	BR	90% PRELIMINARY SUBMITTAL
2	01/05/2018	BR	60% PRELIMINARY SUBMITTAL
1	03/17/2017	BR	30% PRELIMINARY SUBMITTAL



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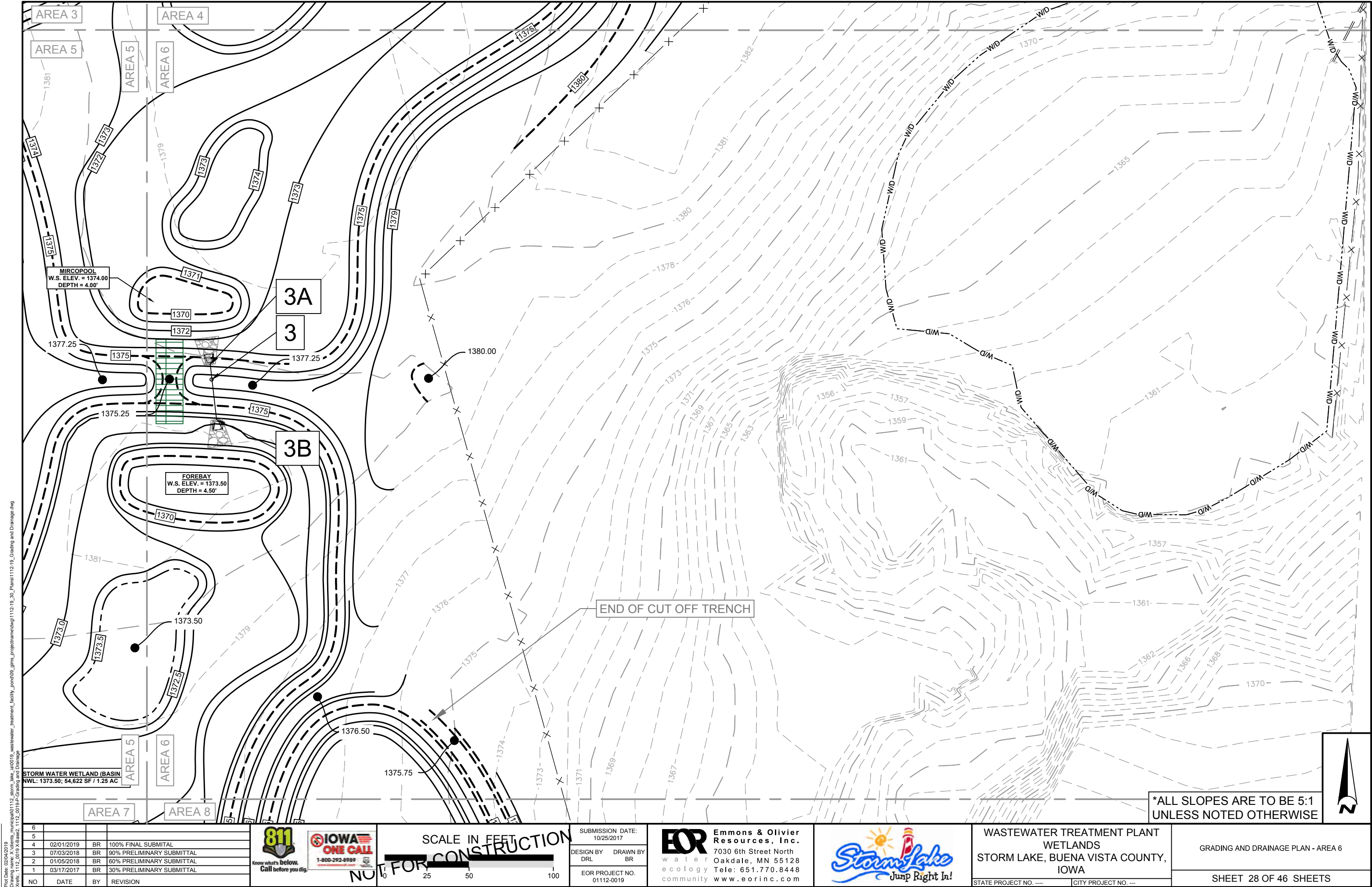
SUBMISSION DATE:	10/25/2017
DESIGN BY	DRL
DRAWN BY	BR
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GRADING AND DRAINAGE PLAN - AREA 5
SHEET 27 OF 46 SHEETS



Plot Date: 12/24/2019
Drawing Name: X:\clients_municipal\112_storm_lake_a\0018_wastewater_treatment_facility_pond\09_gms_projects\dwg\112-19_30_Plans\112-19_Grading and Drainage.dwg
Xrefs: 1112_0019_XBase2, 1112_0019-F-Grading and Drainage

NO	DATE	BY	REVISION
6			
5			
4	02/01/2019	BR	100% FINAL SUBMITAL
3	07/03/2018	BR	90% PRELIMINARY SUBMITTAL
2	01/05/2018	BR	60% PRELIMINARY SUBMITTAL
1	03/17/2017	BR	30% PRELIMINARY SUBMITTAL



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GRADING AND DRAINAGE PLAN - AREA 6

SHEET 28 OF 46 SHEETS

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*ALL SLOPES ARE TO BE 5:1
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Plot Date: 12/24/2019
Drawing Name: X:\clients_municipal\112_storm_lake_a\0018_wastewater_treatment_facility_pond\09_gms_projects\dwg\112-19_30_Plans\112-19_Grading and Drainage.dwg
Xrefs: 1112_0019_XBase2; 1112_0019-F-Grading and Drainage

6			
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4	02/01/2019	BR	100% FINAL SUBMITAL
3	07/03/2018	BR	90% PRELIMINARY SUBMITTAL
2	01/05/2018	BR	60% PRELIMINARY SUBMITTAL
1	03/17/2017	BR	30% PRELIMINARY SUBMITTAL
NO	DATE	BY	REVISION



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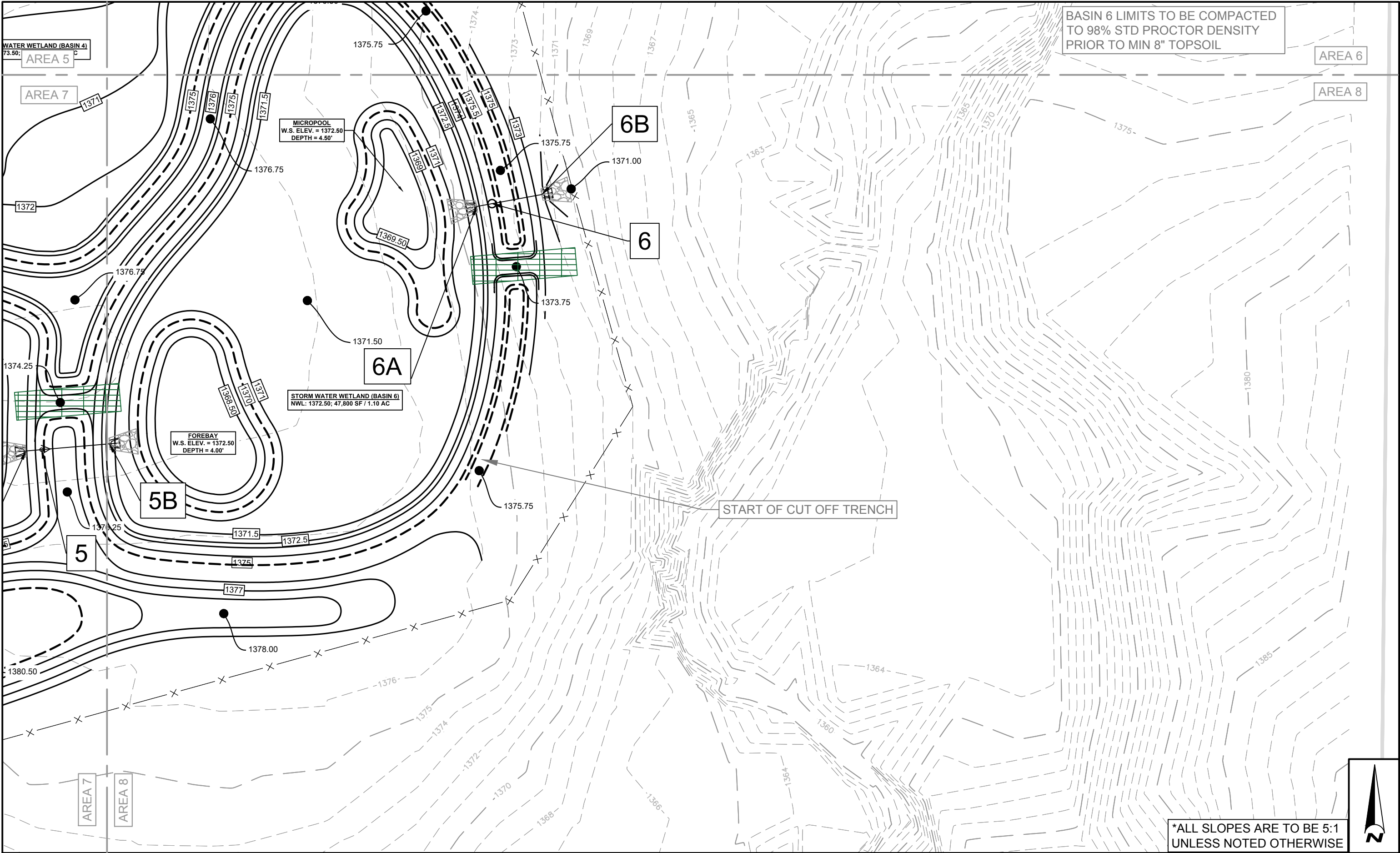
SUBMISSION DATE:
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DESIGN BY: DRL
DRAWN BY: BR
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GRADING AND DRAINAGE PLAN - AREA 7
SHEET 29 OF 46 SHEETS



Plot Date: 12/24/2019
Drawing Name: X:\clients_municipal\112_storm_lake_a\0018_wastewater_treatment_facility_pond\09_gms_projects\dwg\112-19_30_Plans\112-19_Grading and Drainage.dwg
Xrefs: 112_0019_XBase2; 112_0019-F-Grading and Drainage

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4	02/01/2019	BR	100% FINAL SUBMITAL
3	07/03/2018	BR	90% PRELIMINARY SUBMITTAL
2	01/05/2018	BR	60% PRELIMINARY SUBMITTAL
1	03/17/2017	BR	30% PRELIMINARY SUBMITTAL
NO	DATE	BY	REVISION



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SUBMISSION DATE:	10/25/2017
DESIGN BY	DRL
DRAWN BY	BR
FOR PROJECT NO.	01112-0019

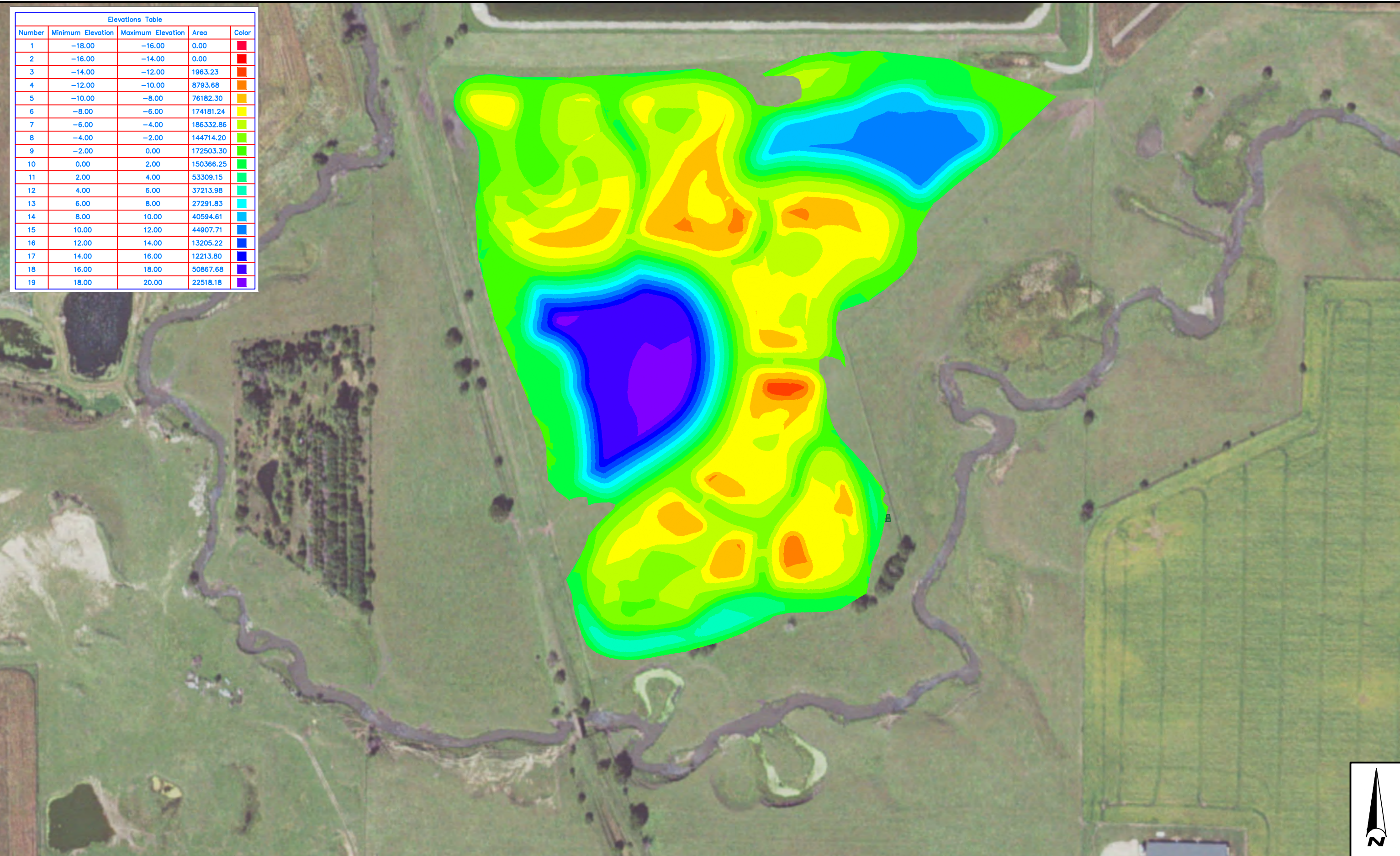
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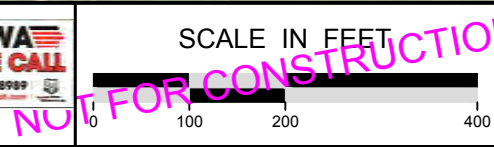
GRADING AND DRAINAGE PLAN - AREA 8
SHEET 30 OF 46 SHEETS

Elevations Table				
Number	Minimum Elevation	Maximum Elevation	Area	Color
1	-18.00	-16.00	0.00	Red
2	-16.00	-14.00	0.00	Red
3	-14.00	-12.00	1963.23	Orange
4	-12.00	-10.00	8793.68	Orange
5	-10.00	-8.00	76182.30	Yellow
6	-8.00	-6.00	174181.24	Yellow
7	-6.00	-4.00	186332.86	Light Green
8	-4.00	-2.00	144714.20	Light Green
9	-2.00	0.00	172503.30	Light Green
10	0.00	2.00	150366.25	Light Green
11	2.00	4.00	53309.15	Light Green
12	4.00	6.00	37213.98	Light Green
13	6.00	8.00	27291.83	Light Green
14	8.00	10.00	40594.61	Light Green
15	10.00	12.00	44907.71	Light Green
16	12.00	14.00	13205.22	Light Green
17	14.00	16.00	12213.80	Light Green
18	16.00	18.00	50867.68	Light Green
19	18.00	20.00	22518.18	Light Green



Plot Date: 12/24/2019
Drawing Name: X:\clients_municipal\1112_swm_lake_a\1018_wastewater_treatment_facility_pond\09_gms_projects\dwg\1112-19_30_Plans\1112-19_Grading and Drainage.dwg
Xrefs: 1112_2019 XBase2_1112_0019-F-Grading and Drainage

6			
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4	02/01/2019	BR	100% FINAL SUBMITAL
3	07/03/2018	BR	90% PRELIMINARY SUBMITTAL
2	01/05/2018	BR	60% PRELIMINARY SUBMITTAL
1	03/17/2017	BR	30% PRELIMINARY SUBMITTAL
NO	DATE	BY	REVISION



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STATE PROJECT NO. --- CITY PROJECT NO. ---

EARTHWORK CUT AND FILL DIAGRAM

SHEET 31 OF 46 SHEETS

Plot Date: 12/24/2019
Drawing Name: X:\clients_municipal\1112_storm_lake_a\0018_wastewater_treatment_facility_pond\09_gms_projects\1112-19_30_Plans\1112-19_Storm_Sewer.dwg
Xrefs: 1112_0019_XBase2; 1112_0019-F-Grading and Drainage



6			
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4	02/01/2019	BR	100% FINAL SUBMITAL
3	07/03/2018	BR	90% PRELIMINARY SUBMITTAL
2	01/05/2018	BR	60% PRELIMINARY SUBMITTAL
1	03/17/2017	BR	30% PRELIMINARY SUBMITTAL
NO	DATE	BY	REVISION



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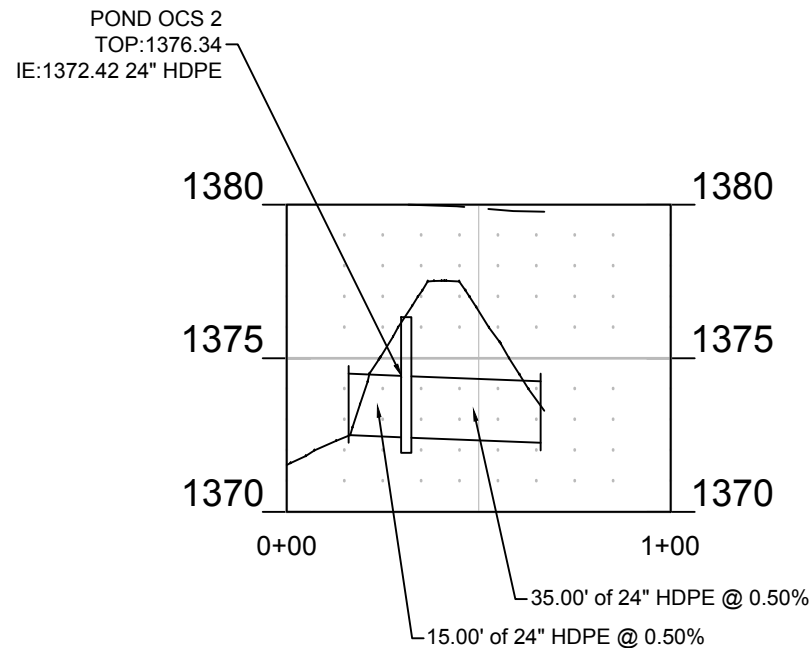
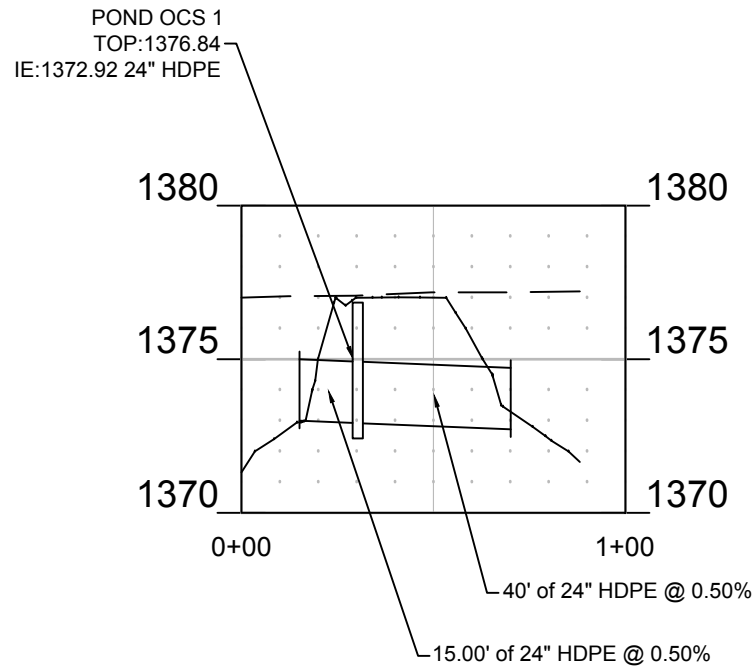
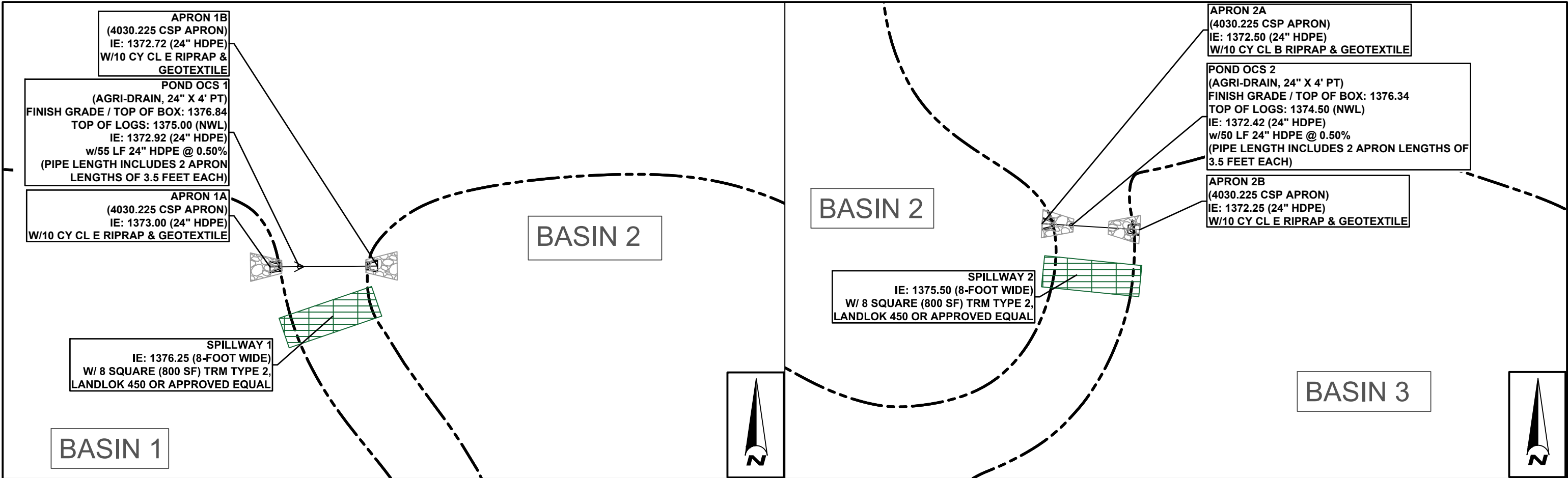
SUBMISSION DATE:
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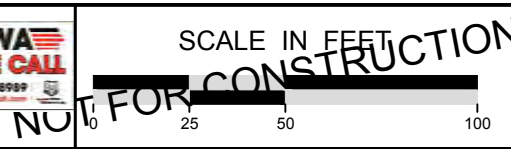
WASTEWATER TREATMENT PLANT
WETLANDS
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IOWA
STATE PROJECT NO. ---
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STORM SEWER OVERVIEW
SHEET 32 OF 46 SHEETS



Plot Date: 12/24/2019
Drawing Name: X:\clients_municipal\1112_storm_lake_a\0019_wastewater_treatment_facility_pond\09_gms_projects\dwg\1112-19_30_Plans\1112-19_Storm_Sewer.dwg
Xrefs: 1112_2019_XBase2; 1112_0019-F-Grading and Drainage

6			
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4	02/01/2019	BR	100% FINAL SUBMITAL
3	07/03/2018	BR	90% PRELIMINARY SUBMITTAL
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1	03/17/2017	BR	30% PRELIMINARY SUBMITTAL
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SUBMISSION DATE: 10/25/2017	
DESIGN BY DRL	DRAWN BY BR
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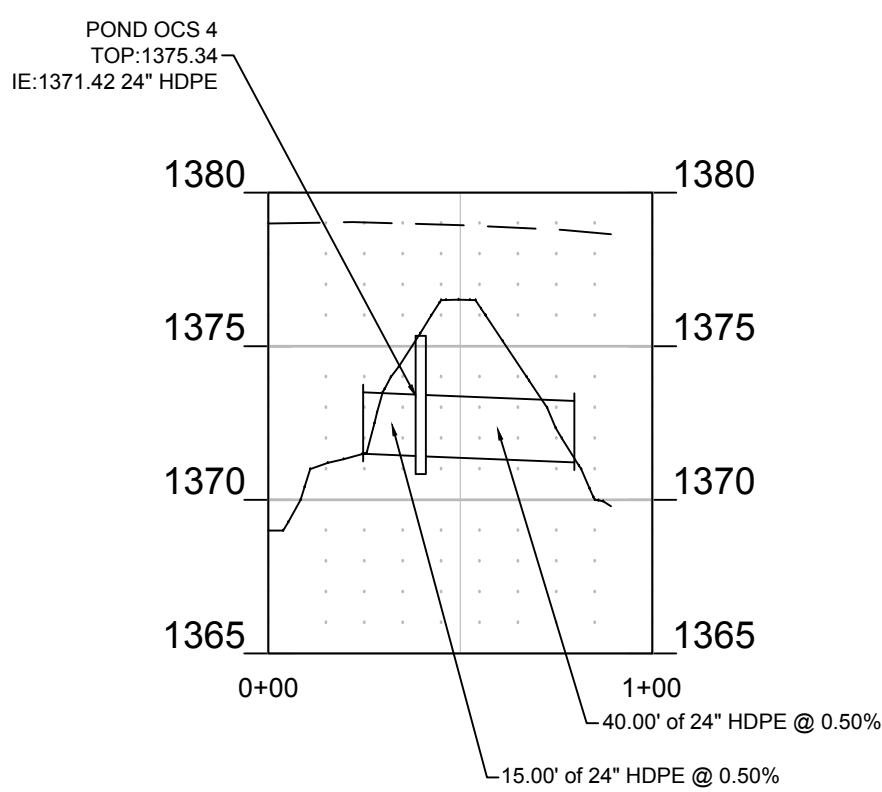
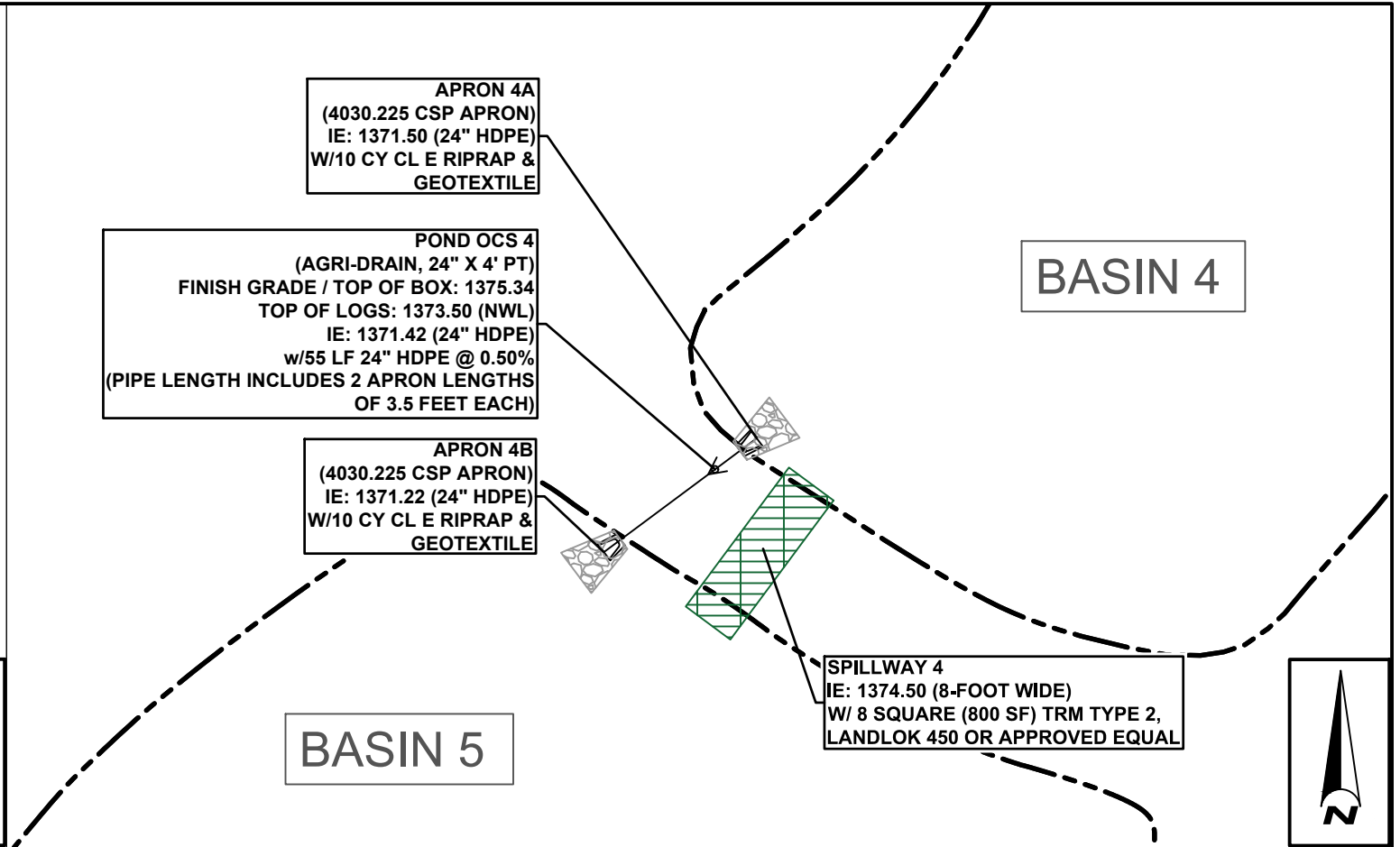
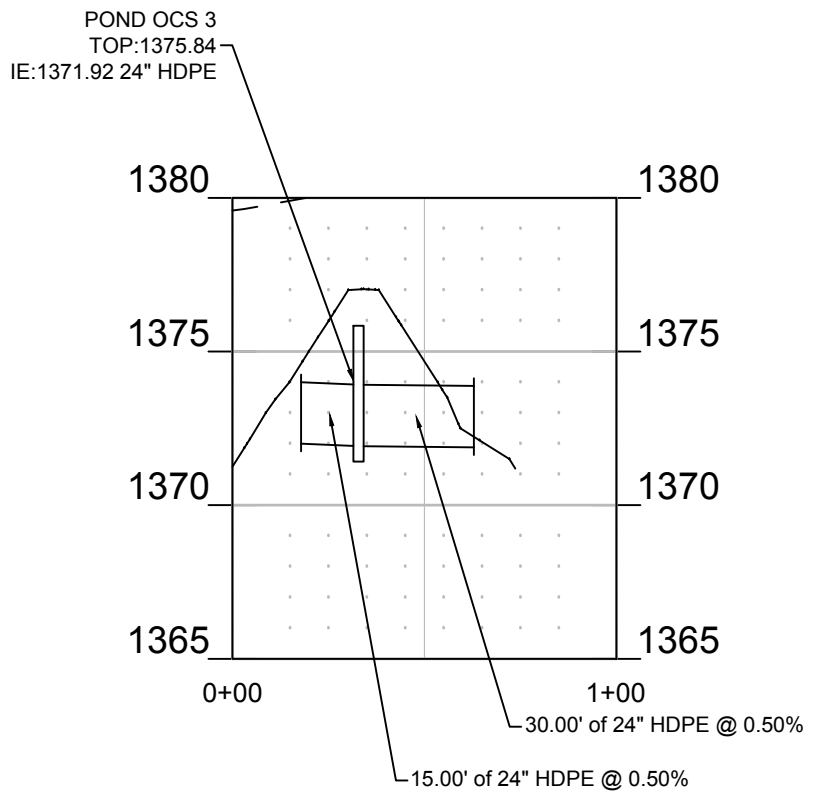
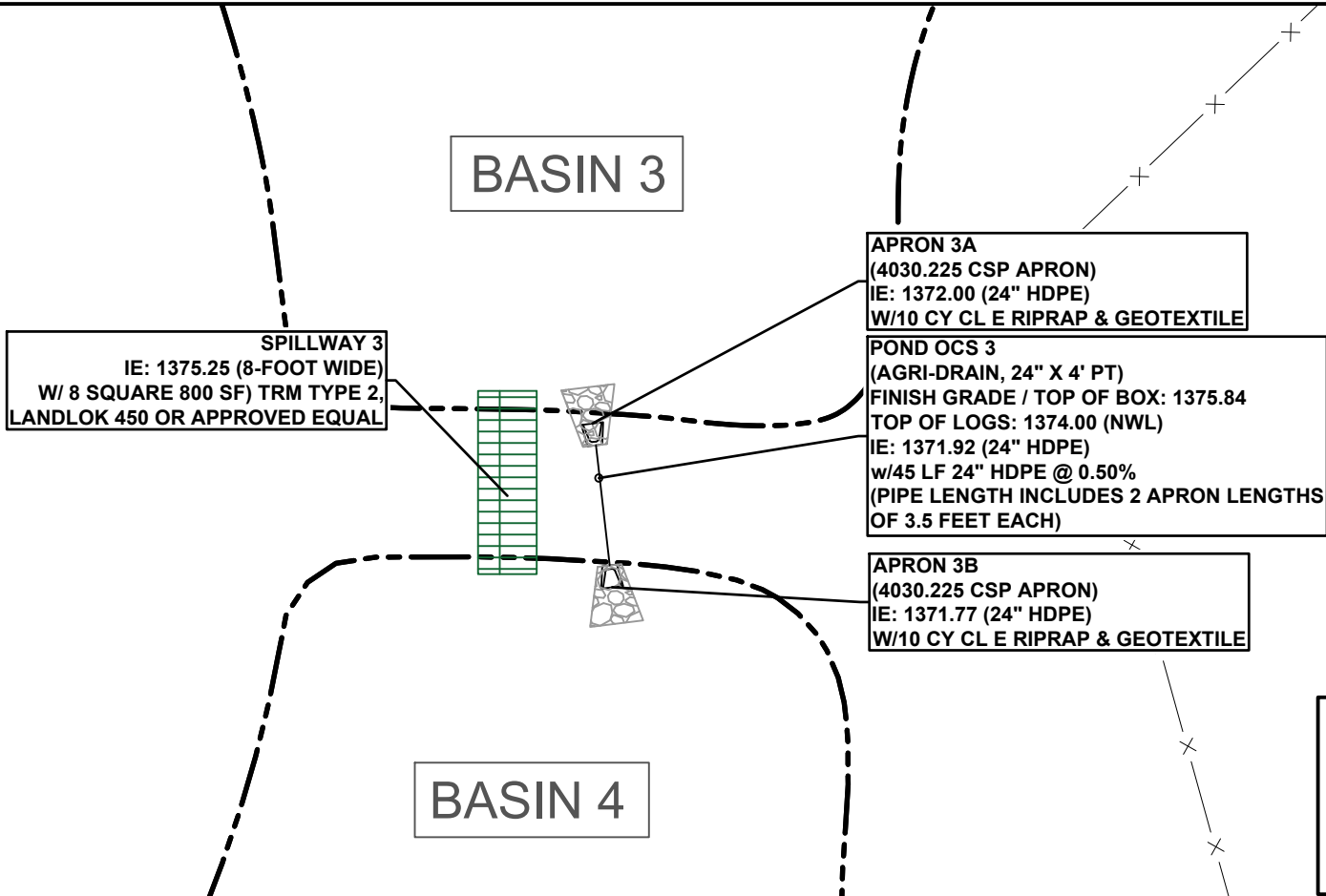
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WASTEWATER TREATMENT PLANT WETLANDS STORM LAKE, BUENA VISTA COUNTY, IOWA	
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STORM SEWER PLAN AND PROFILE - AREA 1 & 2
SHEET 33 OF 46 SHEETS

Plot Date: 12/24/2019
Drawing name: X:\clients_municipal\112_storm_lake_a\0019_wastewater_treatment_facility_pond\09_gms_projects\dwg\112-19_30_Plans\112-19_Storm_Sewer.dwg
Xrefs: 112_2019_XBase2; 112_0019-F-Grading and Drainage



6			
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4	02/01/2019	BR	100% FINAL SUBMITAL
3	07/03/2018	BR	90% PRELIMINARY SUBMITTAL
2	01/05/2018	BR	60% PRELIMINARY SUBMITTAL
1	03/17/2017	BR	30% PRELIMINARY SUBMITTAL
NO	DATE	BY	REVISION



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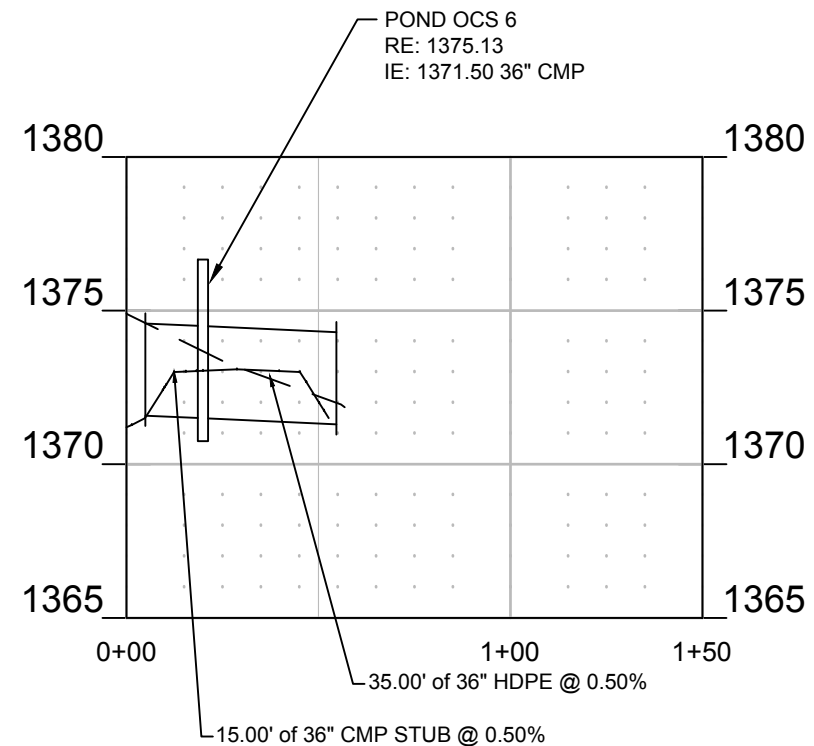
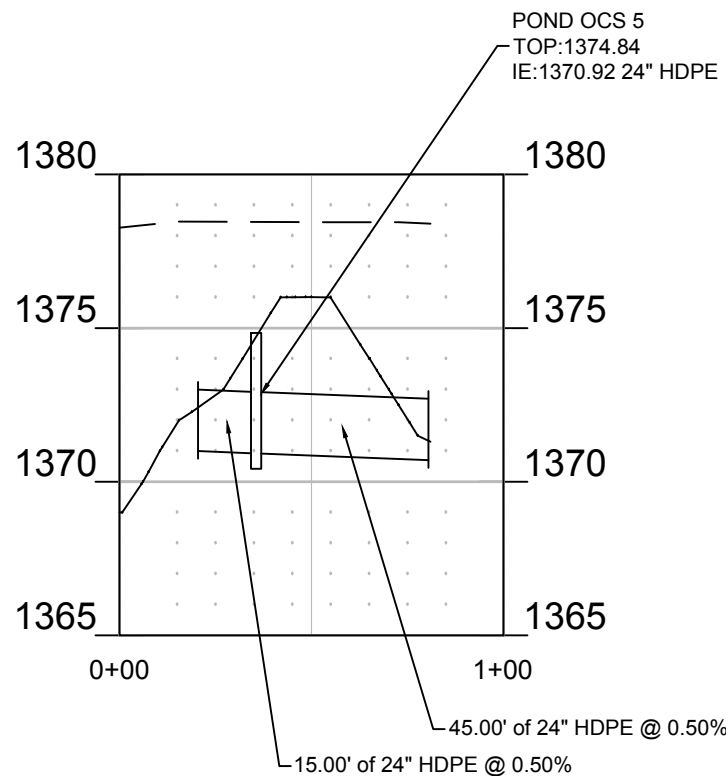
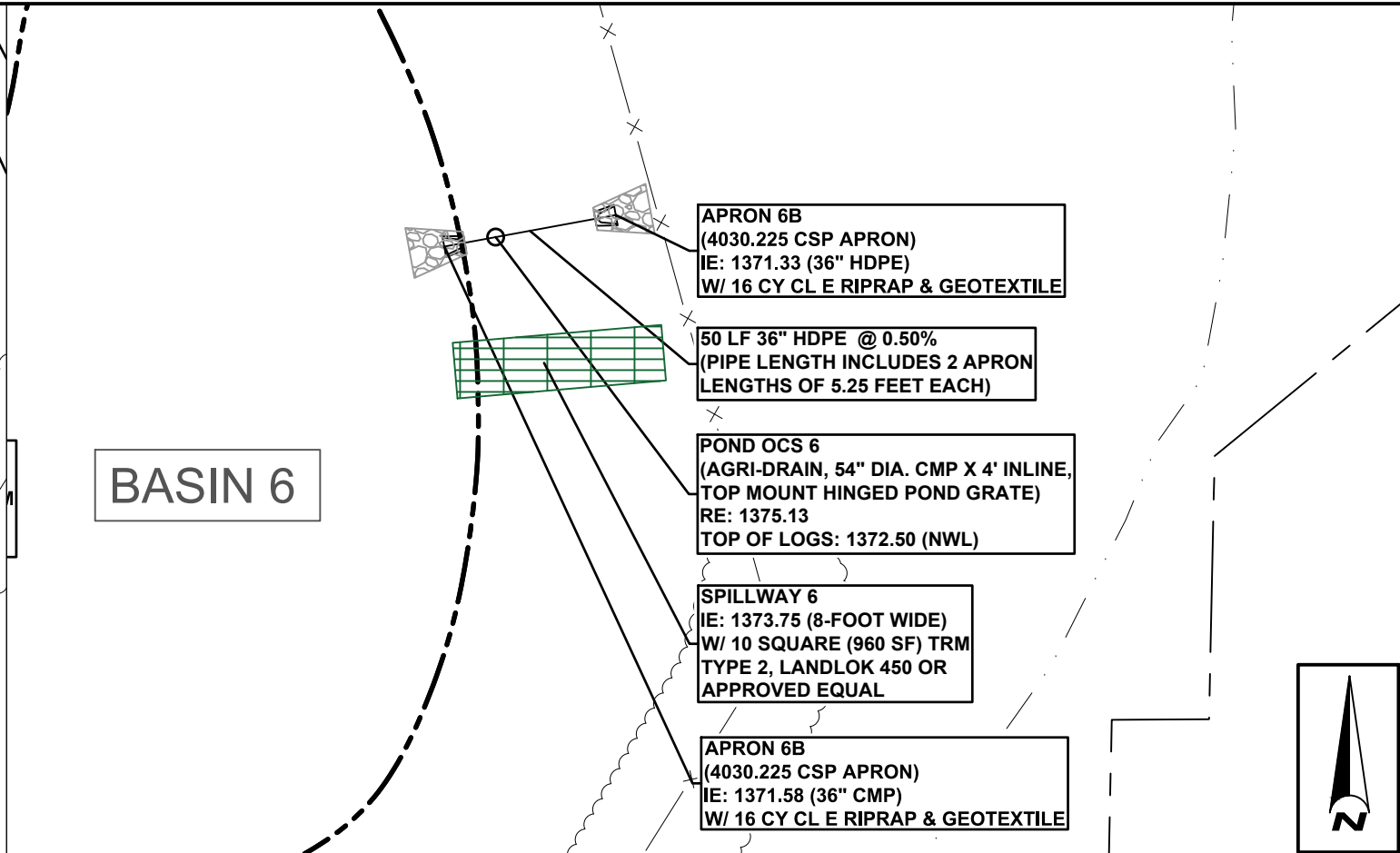
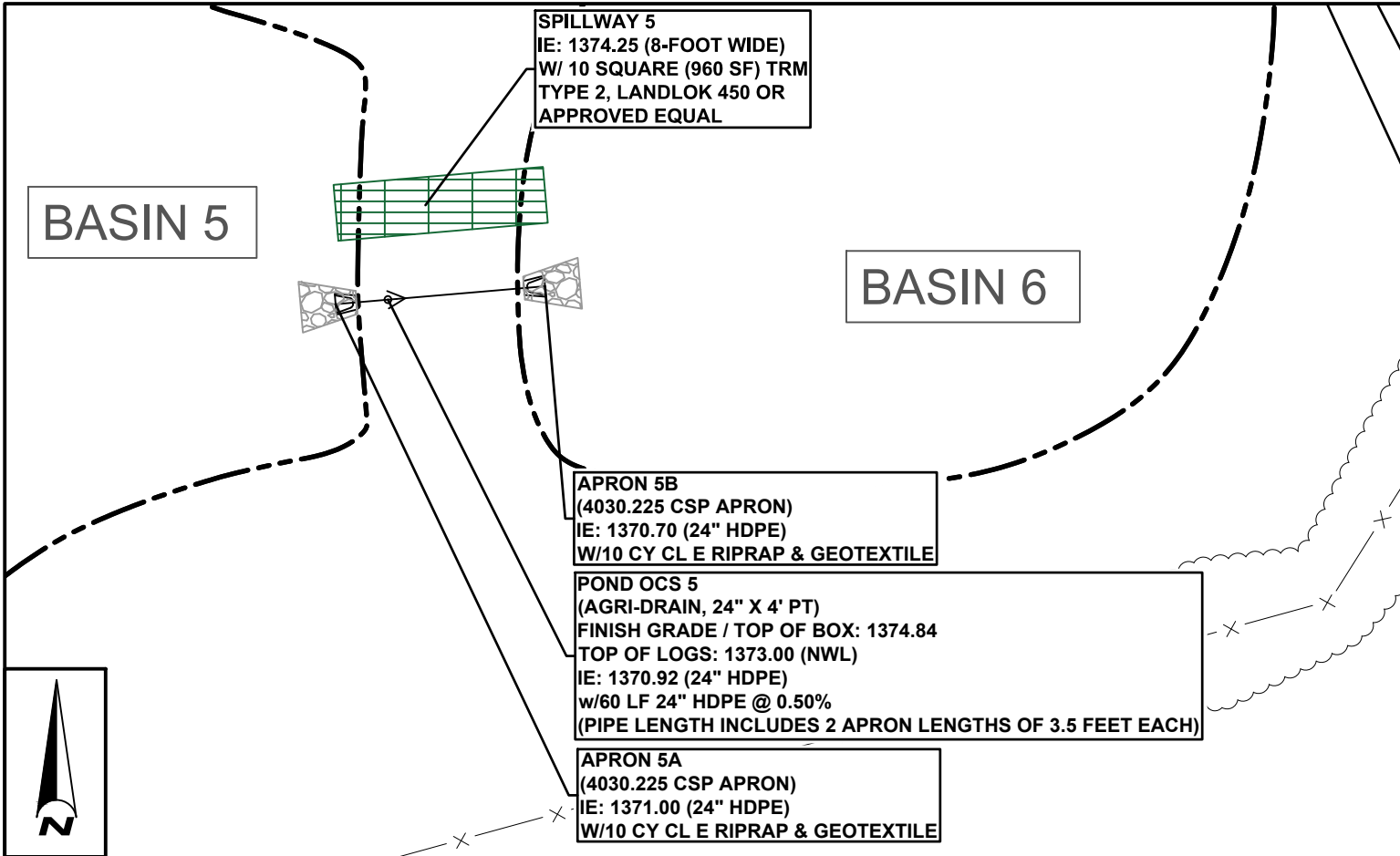
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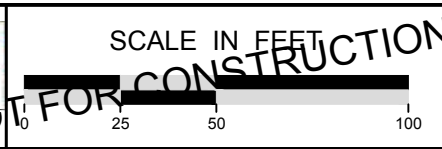
STORM SEWER PLAN AND PROFILE - AREA 3 & 4

SHEET 34 OF 46 SHEETS



Plot Date: 12/24/2019
Drawing Name: X:\clients_municipal\112_storm_lake_a\0018_wastewater_treatment_facility_pond\09_gms_projects\dwg\112-19_30_Plans\112-19_Storm_Sewer.dwg
Xrefs: 112_0019_XBase2; 112_0019-F-Grading and Drainage

6			
5			
4	02/01/2019	BR	100% FINAL SUBMITAL
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1	03/17/2017	BR	30% PRELIMINARY SUBMITTAL
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WASTEWATER TREATMENT PLANT
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Plot Date: 12/24/2019
Drawing name: X:\clients_municipal\112_storm_lake_a\0018_wastewater_treatment_facility_pond\09_gms_projects\dwg\1112-19_30_Plans\1112-19_Landscape_Rest.dwg
Xrefs: 1112_0019-XBase2; 1112_0019-F-Grading and Drainage

Seeding Schedule

Area	Type	SUDAS Seed Mix	Rate	Area
A	UPLAND	2.02 - C - Type 3 - Permanent Warm-Season Slope and Ditch Mixture	(see SUDAS specification)	18.73 acre
B	WETLAND	1A CP23 WET MIX	4.07 lb/acre (40.1 seeds/sq ft)	8.44 acre
C	SLOPES	1A CP25 STANDARD MIX	5.9 lb/acre (40.1 seeds/sq ft)	3.89 acre

Deciduous Shrub Planting Schedule

Quantity	Scientific Name	Common Name	Size	Type	Spacing
126	<i>Aronia melanocarpa</i>	Glossy Black Chokeberry	24" Height	#5 Cont.	5' O.C.
126	<i>Cephalanthus occidentalis</i>	Buttonbush	24" Height	#5 Cont.	5' O.C.
156	<i>Cornus stolonifera</i>	Red-osier Dogwood	24" Height	#5 Cont.	5' O.C.
172	<i>Salix discolor</i>	Pussy Willow	24" Height	#5 Cont.	5' O.C.
80	<i>Viburnum dentatum</i>	Arrow wood	24" Height	#5 Cont.	5' O.C.
660	Shrub Total				

Deciduous Tree Planting Schedule

Symbol	Est. Qty.	Scientific Name	Common Name	Size	Cont.	Type
CC	4	<i>Cretaeagus crus-galli</i>	Hawthorne	2"	B&B	Single Stem
JC	3	<i>Juglans cinerea</i>	Black Walnut	2"	B&B	Single Stem
OV	6	<i>Ostrya virginiana</i>	Ironwood	2"	B&B	Single Stem
PO	3	<i>Platanus occidentalis</i>	Sycamore	2"	B&B	Single Stem
QA	3	<i>Quercus alba</i>	White Oak	2"	B&B	Single Stem
QM	6	<i>Quercus macrocarpa</i>	Bur Oak	2"	B&B	Single Stem
QR	6	<i>Quercus rubra</i>	Red Oak	2"	B&B	Single Stem
	31	Tree Total				



MULCH NOTE:
DOUBLE-SHREDDED HARDWOOD MULCH TO BE INSTALLED
AROUND ALL TREES AND SHRUBS. MULCH SHALL BE 3" DEEP IN
ALL AREAS. 3' DIAMETER MULCH RING AROUND ALL TREE
PLANTINGS SHALL BE INCIDENTAL. MULCH AROUND SHRUBS
SHALL COVER ENTIRE SHRUB BED AREA - AND SHALL BE
INCIDENTAL.

LEGEND:

- SEED: SUDAS TYPE 3 MIX
- SEED: CP23 WET MIX
- SEED: CP25 STANDARD MIX
- BAT BOX ON POLE
- HABITAT LOG
- DECIDUOUS TREE
- DECIDUOUS SHRUBS
- EXISTING TREE
- STORM SEWER
- EOF

Plot Date: 12/24/2019

Drawing name: X:\clients_municipal\112_storm_lake_a\0018_wastewater_treatment_facility_pond\09_gms_projects\dwg\1112-19_30_Plans\1112-19_Landscape_Rest.dwg

Xrefs: 1112_0019-XBase2; 1112_0019-F-Grading and Drainage

Plot Date: 12/24/2019

Drawing name: X:\clients_municipal\112_storm_lake_a\0018_wastewater_treatment_facility_pond\09_gms_projects\dwg\1112-19_30_Plans\1112-19_Landscape_Rest.dwg

Xrefs: 1112_0019-XBase2; 1112_0019-F-Grading and Drainage

Plot Date: 12/24/2019

Drawing name: X:\clients_municipal\112_storm_lake_a\0018_wastewater_treatment_facility_pond\09_gms_projects\dwg\1112-19_30_Plans\1112-19_Landscape_Rest.dwg

Xrefs: 1112_0019-XBase2; 1112_0019-F-Grading and Drainage

Plot Date: 12/24/2019

Drawing name: X:\clients_municipal\112_storm_lake_a\0018_wastewater_treatment_facility_pond\09_gms_projects\dwg\1112-19_30_Plans\1112-19_Landscape_Rest.dwg

Xrefs: 1112_0019-XBase2; 1112_0019-F-Grading and Drainage

Plot Date: 12/24/2019

Drawing name: X:\clients_municipal\112_storm_lake_a\0018_wastewater_treatment_facility_pond\09_gms_projects\dwg\1112-19_30_Plans\1112-19_Landscape_Rest.dwg

Xrefs: 1112_0019-XBase2; 1112_0019-F-Grading and Drainage

Plot Date: 12/24/2019

Drawing name: X:\clients_municipal\112_storm_lake_a\0018_wastewater_treatment_facility_pond\09_gms_projects\dwg\1112-19_30_Plans\1112-19_Landscape_Rest.dwg

Xrefs: 1112_0019-XBase2; 1112_0019-F-Grading and Drainage

Plot Date: 12/24/2019

Drawing name: X:\clients_municipal\112_storm_lake_a\0018_wastewater_treatment_facility_pond\09_gms_projects\dwg\1112-19_30_Plans\1112-19_Landscape_Rest.dwg

Xrefs: 1112_0019-XBase2; 1112_0019-F-Grading and Drainage

Plot Date: 12/24/2019

Drawing name: X:\clients_municipal\112_storm_lake_a\0018_wastewater_treatment_facility_pond\09_gms_projects\dwg\1112-19_30_Plans\1112-19_Landscape_Rest.dwg

Xrefs: 1112_0019-XBase2; 1112_0019-F-Grading and Drainage

Plot Date: 12/24/2019

Drawing name: X:\clients_municipal\112_storm_lake_a\0018_wastewater_treatment_facility_pond\09_gms_projects\dwg\1112-19_30_Plans\1112-19_Landscape_Rest.dwg

Xrefs: 1112_0019-XBase2; 1112_0019-F-Grading and Drainage

Plot Date: 12/24/2019

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Plot Date: 12/24/2019

Drawing name: X:\clients_municipal\112_storm_lake_a\0018_wastewater_treatment_facility_pond\09_gms_projects\dwg\1112-19_30_Plans\1112-19_Landscape_Rest.dwg

Xrefs: 1112_0019-XBase2; 1112_0019-F-Grading and Drainage

Plot Date: 12/24/2019

Drawing name: X:\clients_municipal\112_storm_lake_a\0018_wastewater_treatment_facility_pond\09_gms_projects\dwg\1112-19_30_Plans\1112-19_Landscape_Rest.dwg

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Plot Date: 12/24/2019

Drawing name: X:\clients_municipal\112_storm_lake_a\0018_wastewater_treatment_facility_pond\09_gms_projects\dwg\1112-19_30_Plans\1112-19_Landscape_Rest.dwg

Xrefs: 1112_0019-XBase2; 1112_0019-F-Grading and Drainage

Plot Date: 12/24/2019

Drawing name: X:\clients_municipal\112_storm_lake_a\0018_wastewater_treatment_facility_pond\09_gms_projects\dwg\1112-19_30_Plans\1112-19_Landscape_Rest.dwg

Xrefs: 1112_0019-XBase2; 1112_0019-F-Grading and Drainage

Plot Date: 12/24/2019

Drawing name: X:\clients_municipal\112_storm_lake_a\0018_wastewater_treatment_facility_pond\09_gms_projects\dwg\1112-19_30_Plans\1112-19_Landscape_Rest.dwg

Xrefs: 1112_0019-XBase2; 1112_0019-F-Grading and Drainage

Plot Date: 12/24/2019

Drawing name: X:\clients_municipal\112_storm_lake_a\0018_wastewater_treatment_facility_pond\09_gms_projects\dwg\1112-19_30_Plans\1112-19_Landscape_Rest.dwg

Xrefs: 1112_0019-XBase2; 1112_0019-F-Grading and Drainage

Plot Date: 12/24/2019

Drawing name: X:\clients_municipal\112_storm_lake_a\0018_wastewater_treatment_facility_pond\09_gms_projects\dwg\1112-19_30_Plans\1112-19_Landscape_Rest.dwg

Xrefs: 1112_0019-XBase2; 1112_0019-F-Grading and Drainage

Plot Date: 12/24/2019

Drawing name: X:\clients_municipal\112_storm_lake_a\0018_wastewater_treatment_facility_pond\09_gms_projects\dwg\1112-19_30_Plans\1112-19_Landscape_Rest.dwg

Xrefs: 1112_0019-XBase2; 1112_0019-F-Grading and Drainage

Plot Date: 12/24/2019

Drawing name: X:\clients_municipal\112_storm_lake_a\0018_wastewater_treatment_facility_pond\09_gms_projects\dwg\1112-19_30_Plans\1112-19_Landscape_Rest.dwg

Xrefs: 1112_0019-XBase2; 1112_0019-F-Grading and Drainage

Plot Date: 12/24/2019

Drawing name: X:\clients_municipal\112_storm_lake_a\0018_wastewater_treatment_facility_pond\09_gms_projects\dwg\1112-19_30_Plans\1112-19_Landscape_Rest.dwg

Xrefs: 1112_0019-XBase2; 1112_0019-F-Grading and Drainage

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Plot Date: 12/24/2019

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Xrefs: 1112_0019-XBase2; 1112_0019-F-Grading and Drainage

Plot Date: 12/24/2019

Drawing name: X:\clients_municipal\112_storm_lake_a\0018_wastewater_treatment_facility_pond\09_gms_projects\dwg\1112-19_30_Plans\1112-19_Landscape_Rest.dwg

Xrefs: 1112_0019-XBase2; 1112_0019-F-Grading and Drainage

Plot Date: 12/24/2019

Drawing name: X:\clients_municipal\112_storm_lake_a\0018_wastewater_treatment_facility_pond\09_gms_projects\dwg\1112-19_30_Plans\1112-19_Landscape_Rest.dwg

Xrefs: 1112_0019-XBase2; 1112_0019-F-Grading and Drainage

Plot Date: 12/24/2019

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Plot Date: 12/24/2019

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Plot Date: 12/24/2019

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Xrefs: 1112_0019-XBase2; 1112_0019-F-Grading and Drainage

Plot Date: 12/24/2019

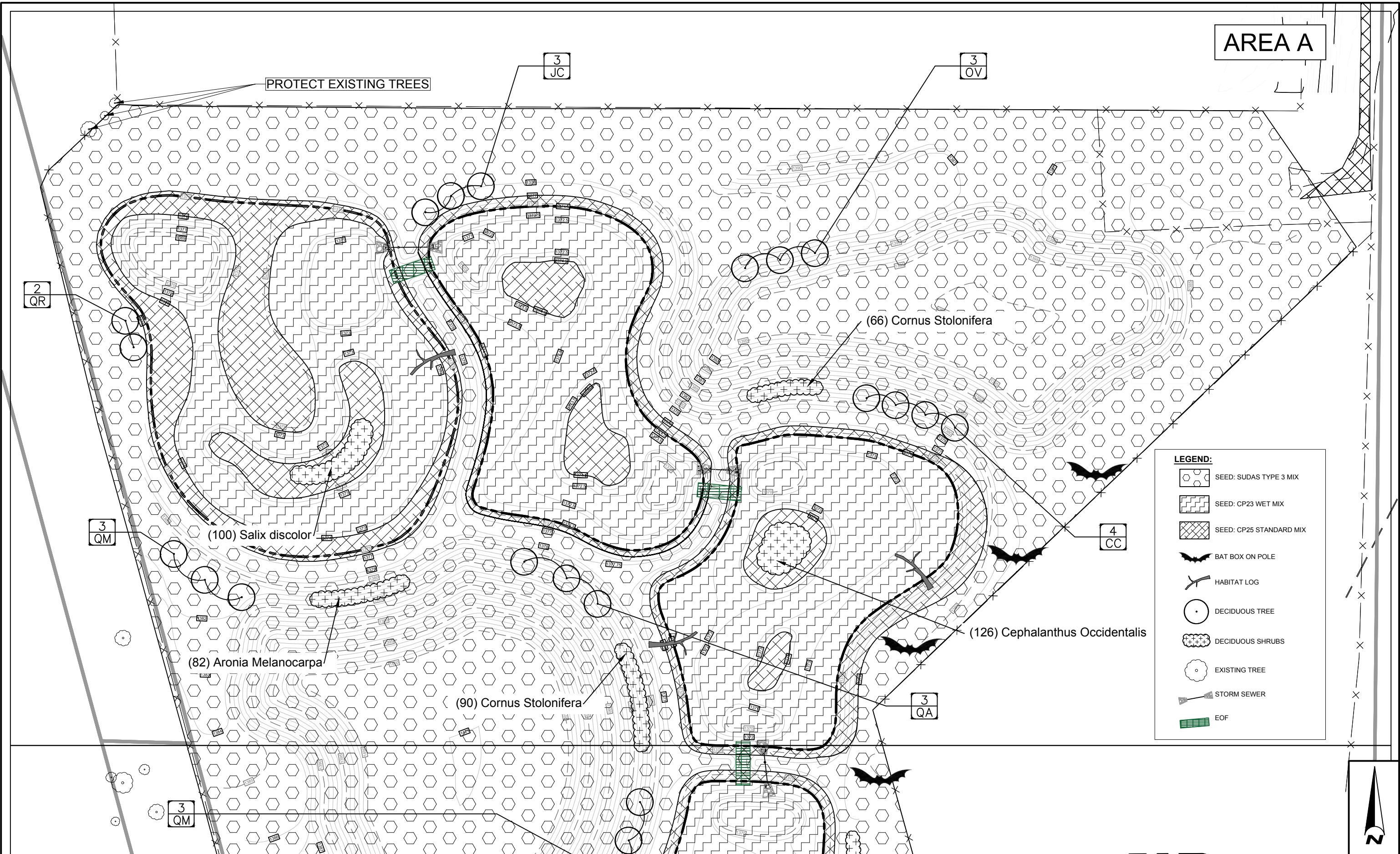
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Xrefs: 1112_0019-XBase2; 1112_0019-F-Grading and Drainage

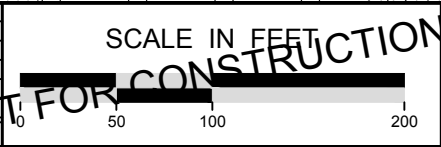
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Plot Date: 12/24/2019
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Xrefs: 1112_0019_XBase2, 1112_0019-F-Grading and Drainage



6			
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4	02/01/2019	BR	100% FINAL SUBMITAL
3	07/03/2018	BR	90% PRELIMINARY SUBMITTAL
2	01/05/2018	BR	60% PRELIMINARY SUBMITTAL
1	03/17/2017	BR	30% PRELIMINARY SUBMITTAL
NO	DATE	BY	REVISION



SUBMISSION DATE: 10/25/2017	
DESIGN BY BH	DRAWN BY BR
EOR PROJECT NO. 01112-0019	

EOR Emmons & Olivier Resources, Inc.
7030 6th Street North
Oakdale, MN 55128
ecology Tele: 651.770.8448
community www.eorinc.com



WASTEWATER TREATMENT PLANT
WETLANDS
STORM LAKE, BUENA VISTA COUNTY,
IOWA
STATE PROJECT NO. --- CITY PROJECT NO. ---

LANDSCAPE RESTORATION PLAN - AREA A
SHEET 37 OF 46 SHEETS

Plot Date: 12/24/2019
Drawing Name: X:\clients_municipal\1112_storm_lake_a\0018_wastewater_treatment_facility_pond\09_gms_projects\dwg\1112-19_30_Plans\1112-19_Landscape_Rest.dwg
Xrefs: 1112_0019_XBase2; 1112_0019-F-Grading and Drainage



6			
5			
4	02/01/2019	BR	100% FINAL SUBMITAL
3	07/03/2018	BR	90% PRELIMINARY SUBMITTAL
2	01/05/2018	BR	60% PRELIMINARY SUBMITTAL
1	03/17/2017	BR	30% PRELIMINARY SUBMITTAL
NO	DATE	BY	REVISION

SCALE IN FEET
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NOT FOR CONSTRUCTION

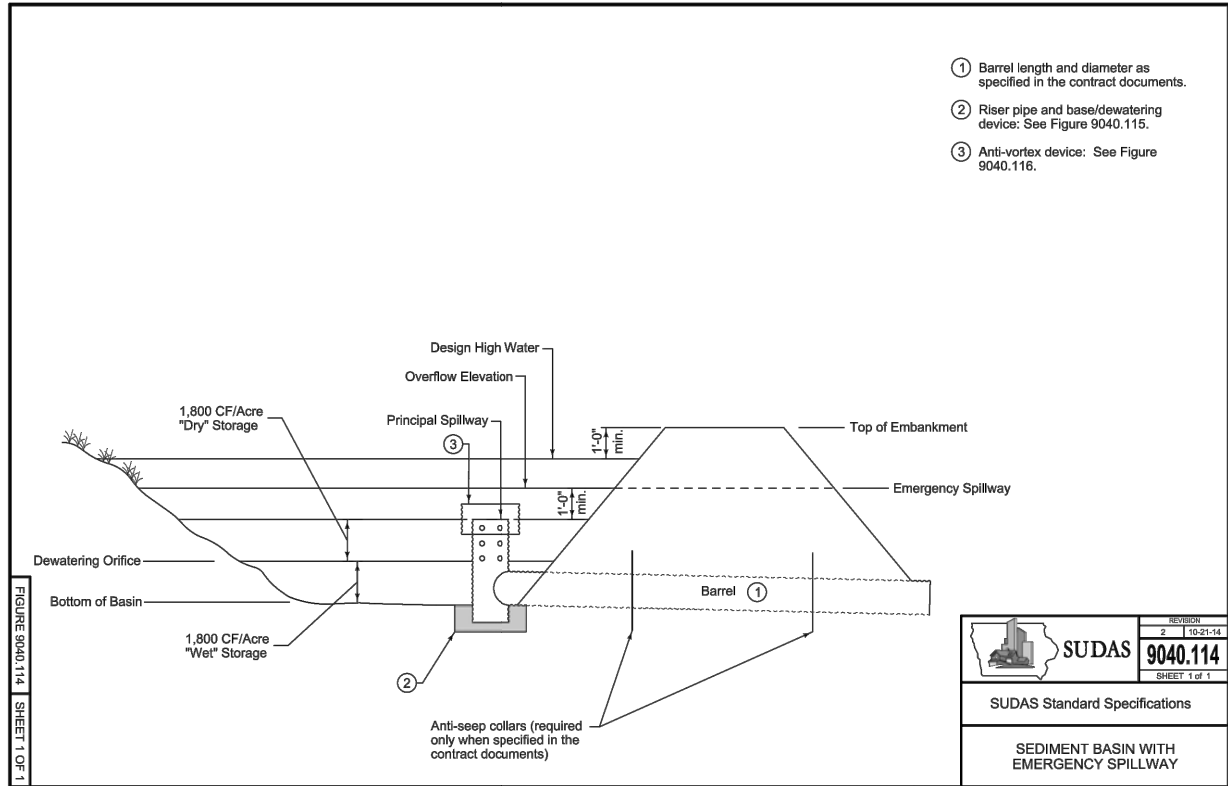
SUBMISSION DATE:
10/25/2017
DESIGN BY: BH
DRAWN BY: BR
EOR PROJECT NO.: 01112-0019

Emmons & Olivier Resources, Inc.
7030 6th Street North
Oakdale, MN 55128
Tel: 651.770.8448
www.eorinc.com

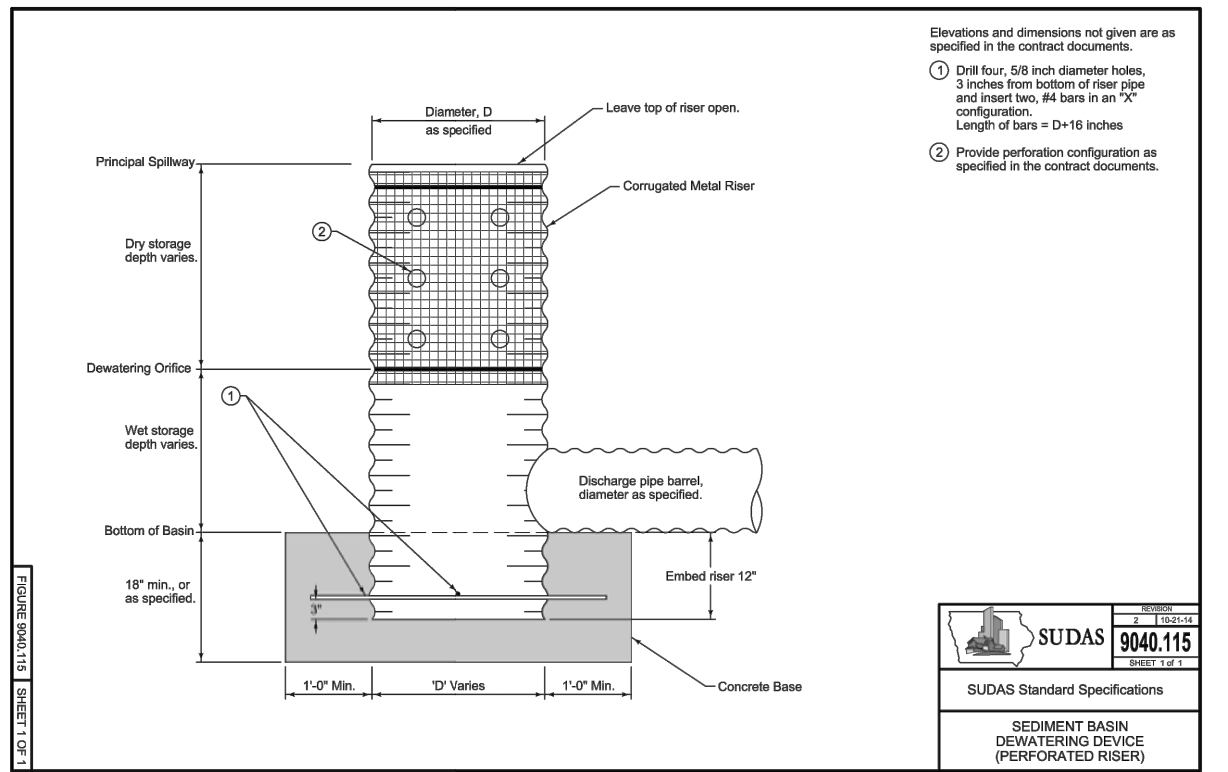


WASTEWATER TREATMENT PLANT
WETLANDS
STORM LAKE, BUENA VISTA COUNTY,
IOWA
STATE PROJECT NO. --- CITY PROJECT NO. ---

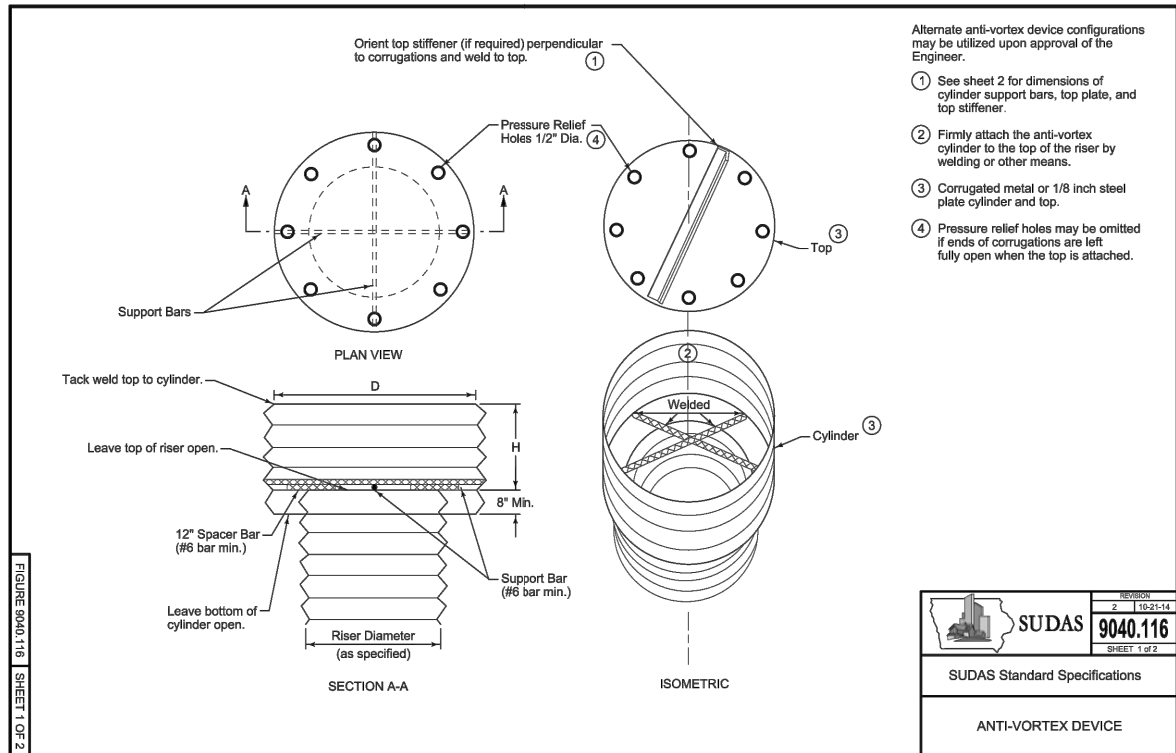
LANDSCAPE RESTORATION PLAN - AREA B
SHEET 38 OF 46 SHEETS



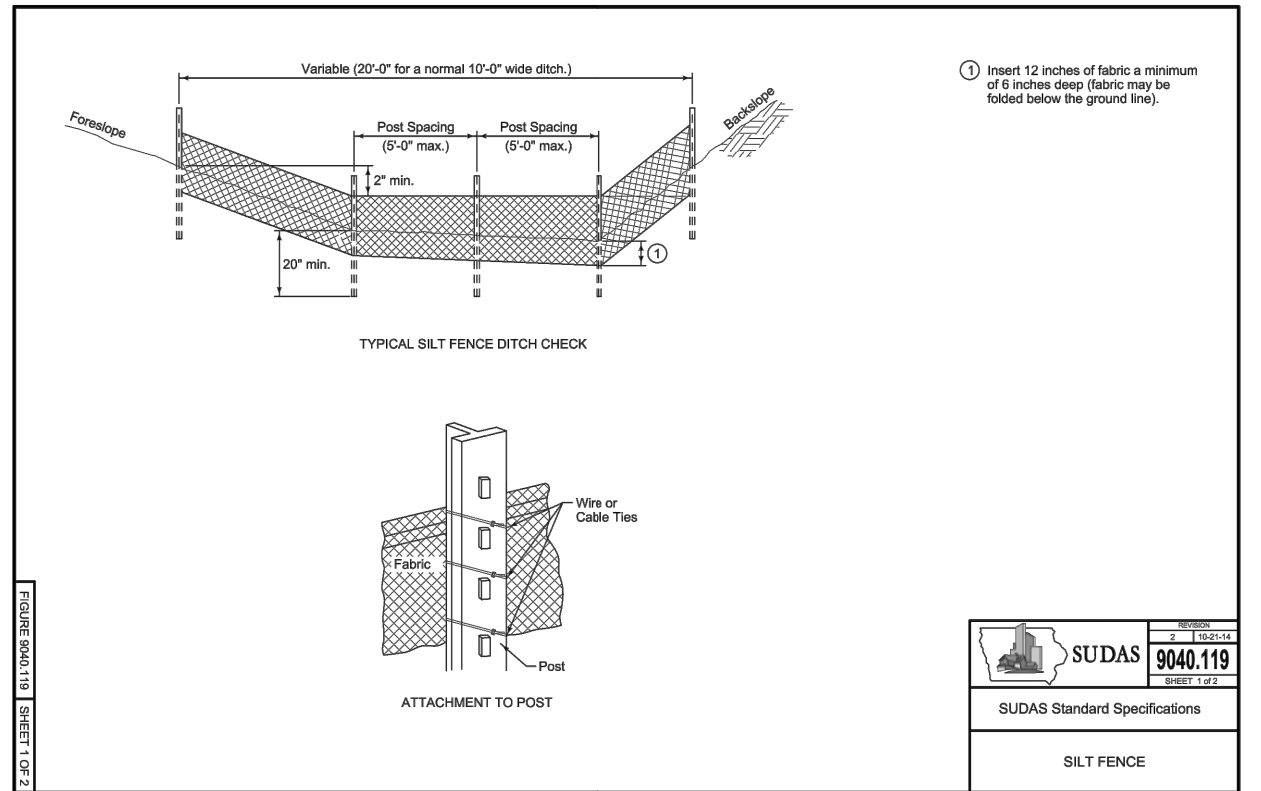
01
39 SEDIMENT BASIN WITH EMERGENCY SPILLWAY
*NOT TO SCALE



02
39 SEDIMENT BASIN DEWATERING DEVICE
*NOT TO SCALE



03
39 ANTI - VORTEX DEVICE
*NOT TO SCALE



04
39 SILTS FENCE
*NOT TO SCALE

Plot Date: 02/04/2019
Drawing Name: X:\clients_municipal\112_storm_lake_la0016_wastewater_treatment_facility_pond09_dms_project\dwg\112-19_DETAIL DRAWINGS.dwg
Xrefs: 112-20_Street Section

6			
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3	07/03/2018	BR	90% PRELIMINARY SUBMITTAL
2	01/05/2018	BR	60% PRELIMINARY SUBMITTAL
1	03/17/2017	BR	30% PRELIMINARY SUBMITTAL
NO	DATE	BY	REVISION



NOT FOR CONSTRUCTION

SUBMISSION DATE:	10/25/2017
DESIGN BY	DRL
DRAWN BY	BR
EOR PROJECT NO.	01112-0019

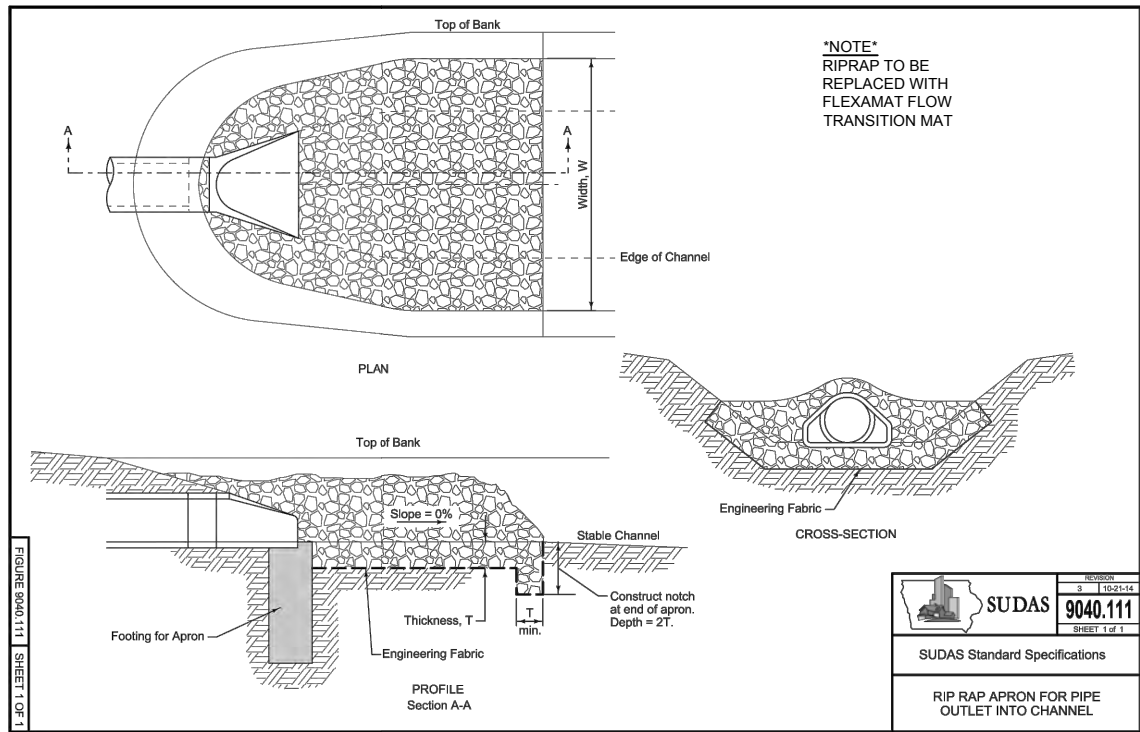
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Oakdale, MN 55128
Tele: 651.770.8448
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WASTEWATER TREATMENT PLANT
WETLANDS
STORM LAKE, BUENA VISTA COUNTY,
IOWA

DETAIL SHEET 01

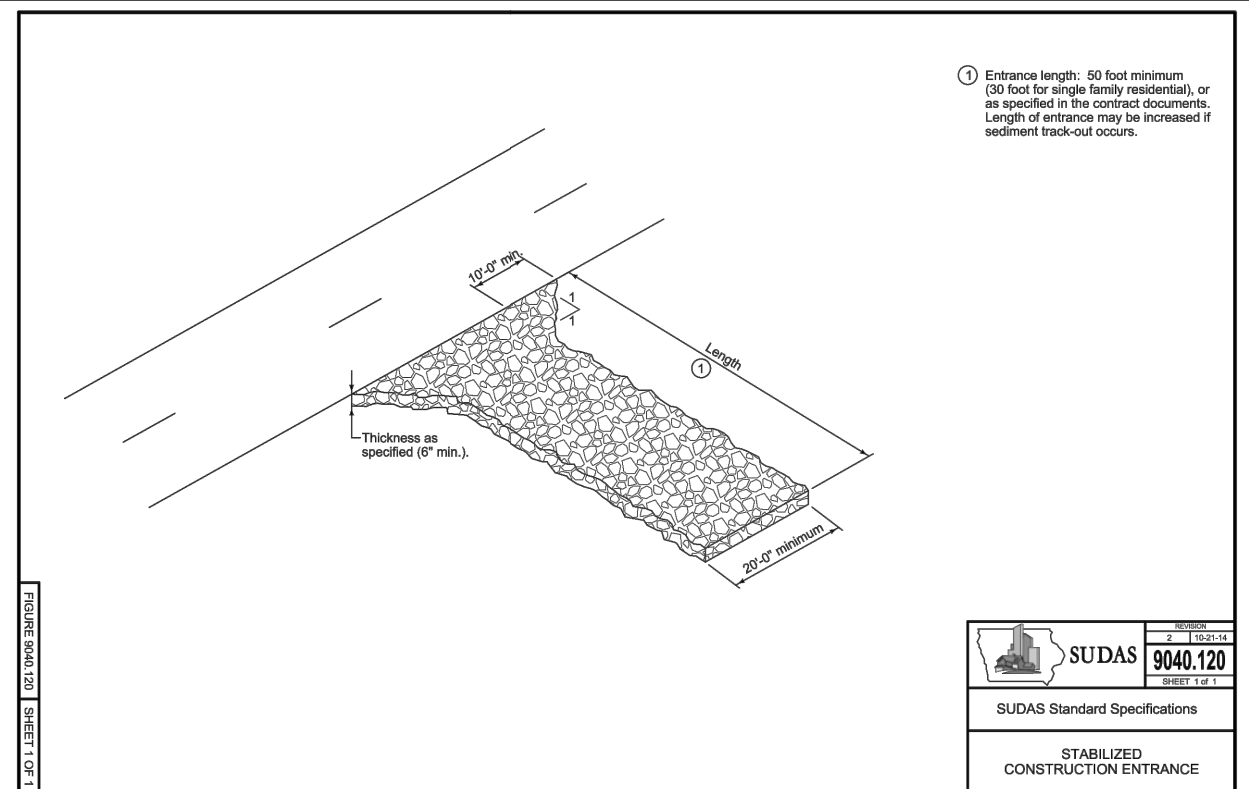
SHEET 39 OF 46 SHEETS



01 RIP RAP APRON FOR PIPE OUTLET INTO CHANNEL

*NOT TO SCALE

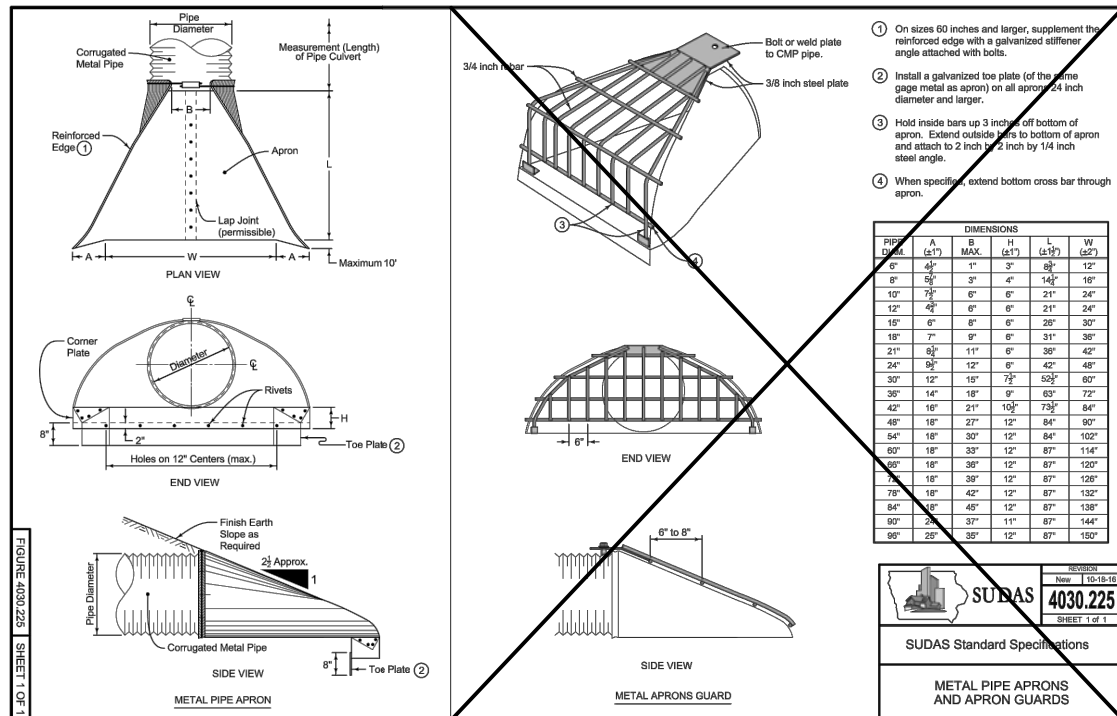
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02 STABILIZED CONSTRUCTION ENTRANCE

*NOT TO SCALE

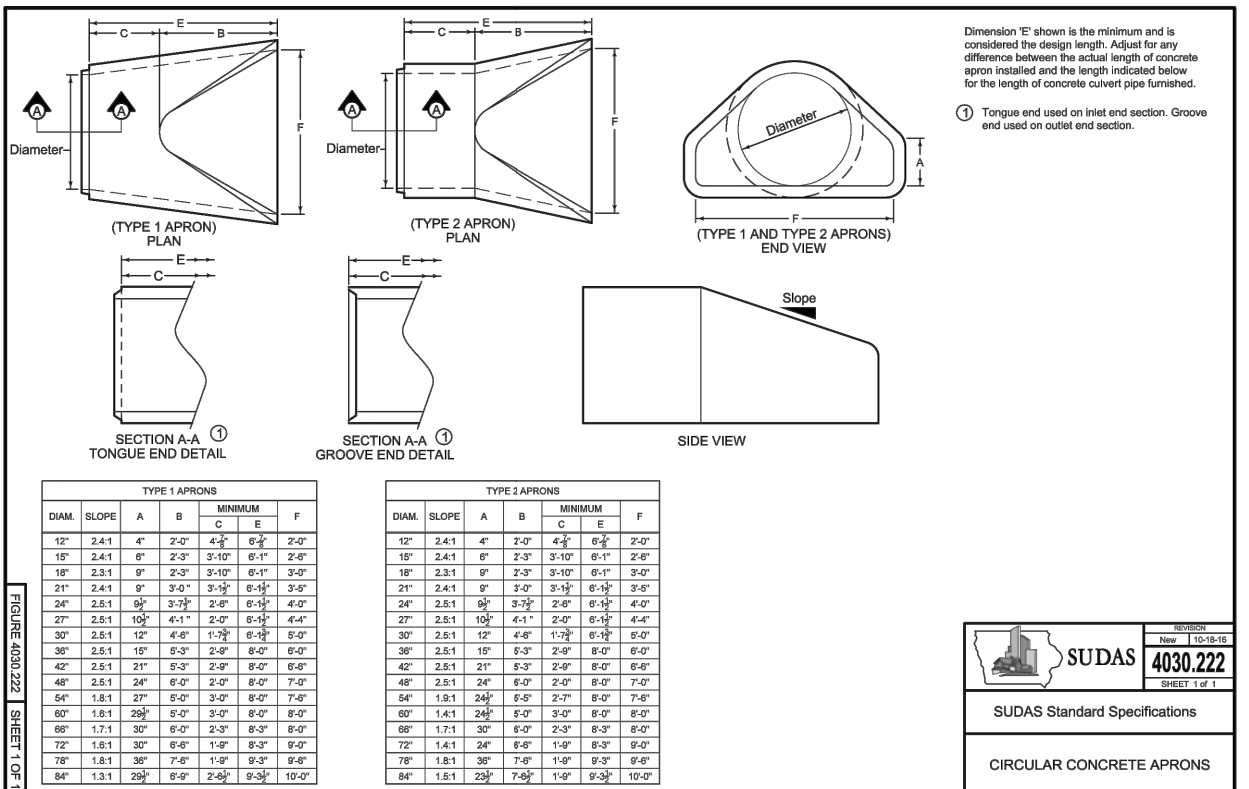
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03 METAL PIPE APRONS AND APRON GUARDS

*NOT TO SCALE

40



04 CIRCULAR CONCRETE APRONS

*NOT TO SCALE

40

6			
5			
4	02/01/2019	BR	100% FINAL SUBMITAL
3	07/03/2018	BR	90% PRELIMINARY SUBMITTAL
2	01/05/2018	BR	60% PRELIMINARY SUBMITTAL
1	03/17/2017	BR	30% PRELIMINARY SUBMITTAL
NO	DATE	BY	REVISION



NOT FOR CONSTRUCTION

SUBMISSION DATE:
10/25/2017

DESIGN BY
DRL

DRAWN BY
BR

EOR PROJECT NO.
01112-0019

EOR Emmons & Olivier
Resources, Inc.
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Oakdale, MN 55128
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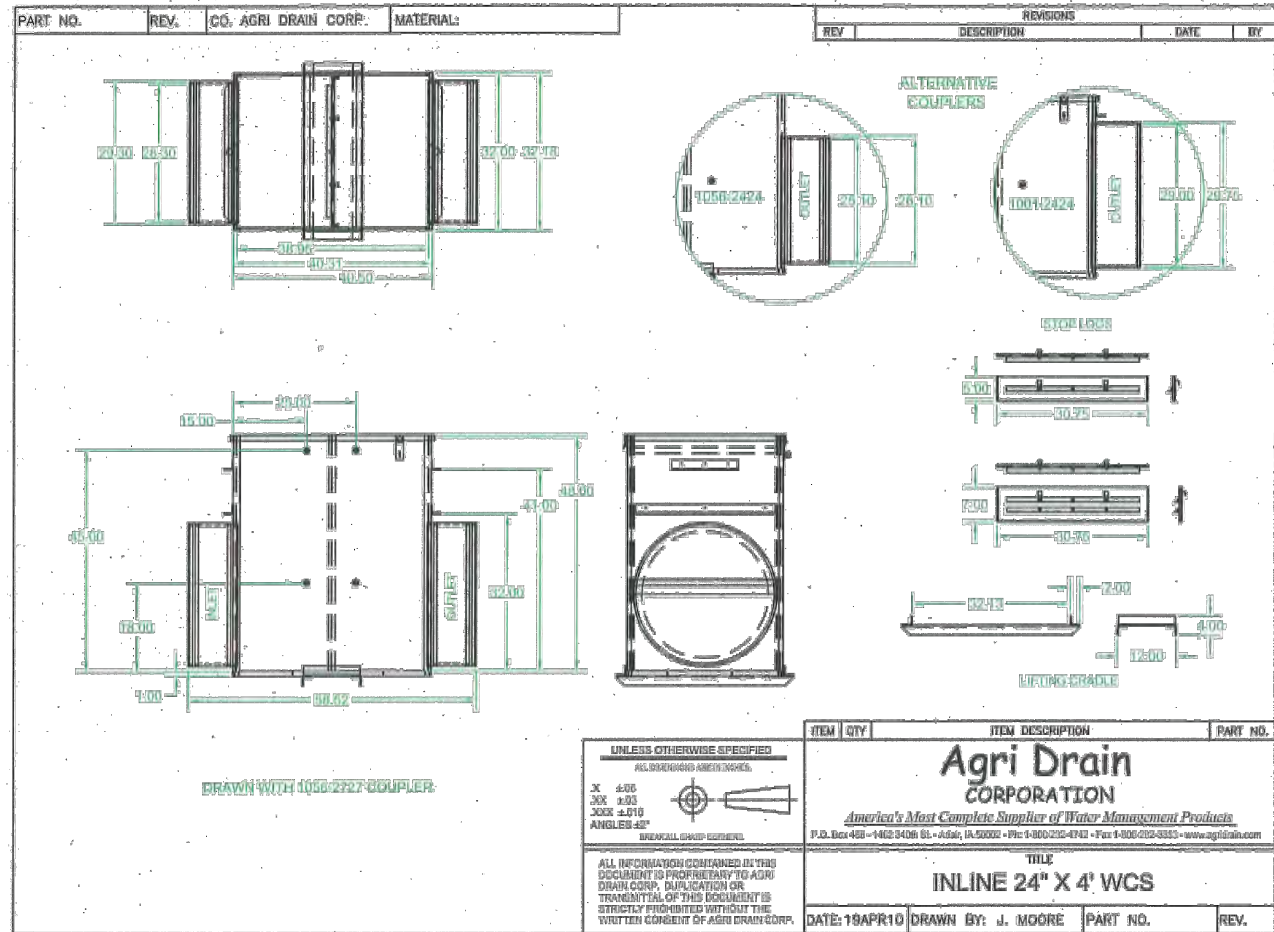
WASTEWATER TREATMENT PLANT
WETLANDS
STORM LAKE, BUENA VISTA COUNTY,
IOWA

STATE PROJECT NO. --- CITY PROJECT NO. ---

DETAIL SHEET 02

SHEET 40 OF 46 SHEETS

Plot Date: 02/04/2019
Drawing Name: X:\clients_municipal\112_storm_lake_la0019_wastewater_treatment_facility_pond09_dms_project\dwg\1112-19_DETAIL DRAWINGS.dwg
Xrefs: 1112-20_Street Section



01

AGRI DRAIN 24" X 4' WCS

41

*NOT TO SCALE

6			
5			
4	02/01/2019	BR	100% FINAL SUBMITAL
3	07/03/2018	BR	90% PRELIMINARY SUBMITTAL
2	01/05/2018	BR	60% PRELIMINARY SUBMITTAL
1	03/17/2017	BR	30% PRELIMINARY SUBMITTAL
NO	DATE	BY	REVISION



Know what's below.
Call before you dig.



NOT FOR CONSTRUCTION

SUBMISSION DATE:
10/25/2017

DESIGN BY DRL
DRAWN BY BR

EOR PROJECT NO.
01112-0019



**Emmons & Olivier
Resources, Inc.**
7030 6th Street North
Oakdale, MN 55128
water ecology
community www.eorinc.com

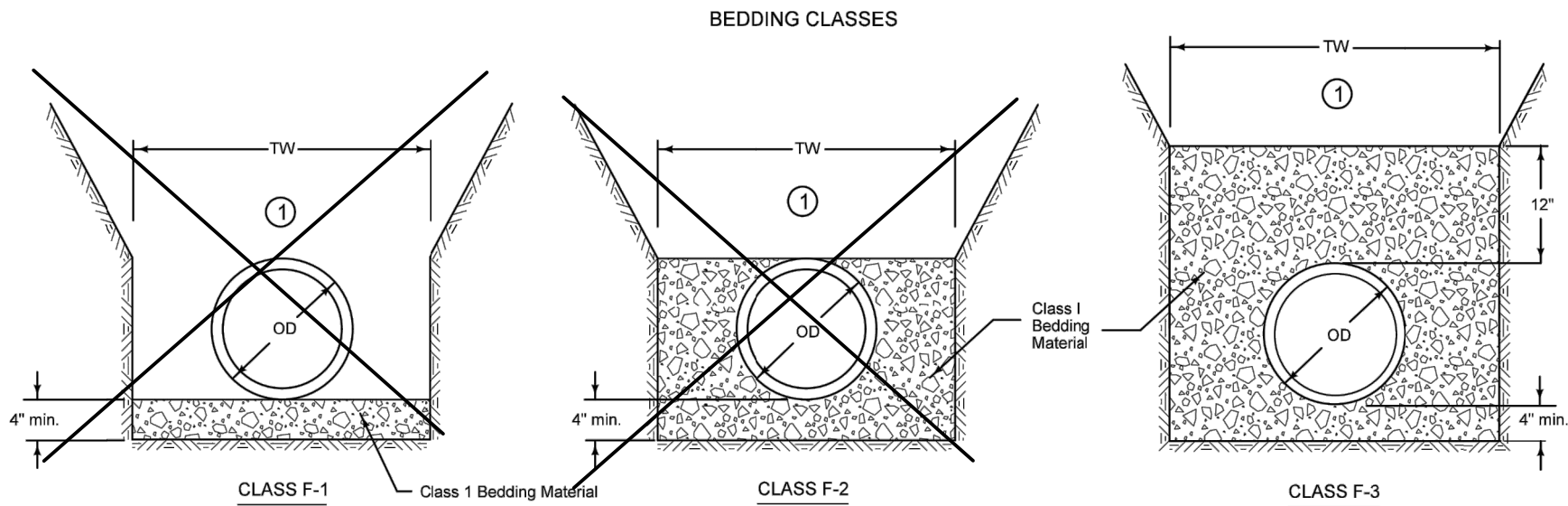


WASTEWATER TREATMENT PLANT
WETLANDS
STORM LAKE, BUENA VISTA COUNTY,
IOWA

STATE PROJECT NO. --- CITY PROJECT NO. ---

DETAIL SHEET 03

SHEET 41 OF 46 SHEETS



- ① Place remainder of bedding and backfill materials as specified in the contract documents.
- ② Minimum depth of bury 12 inches or as specified by the manufacturer.

ALLOWABLE BEDDING CLASSES

PIPE MATERIAL	STORM SEWER	SANITARY SEWER
Ductile Iron	F-1, F-2, F-3	F-1, F-2, F-3
HDPE	F-2, F-3	Not allowed
Polypropylene	F-2, F-3	F-3
PVC	F-2, F-3	F-3

Key

OD = Outside diameter of pipe

TW = Trench width at top of pipe:
Min. = OD+18 inches OR 1.25xOD+12 inches
(whichever is greater)

ALLOWABLE BURY DEPTH^②

PVC PIPE

Pipe Diameter (in)	ASTM D 3034			ASTM F 679	ASTM F 949	ASTM F 1803	ASTM D 2680
	Solid Wall			Solid Wall	Corrug. Exterior	Closed Profile	Composite (Truss Type)
	SDR 23.5	SDR 26	SDR 35				
8	30'	28'	24'	---	24'	---	32'
10	30'	28'	24'	---	24'	---	32'
12	30'	28'	24'	---	24'	---	32'
15	30'	28'	24'	---	24'	---	32'
18	---	---	---	24'	24'	---	---
21	---	---	---	24'	24'	24'	---
24	---	---	---	24'	24'	24'	---
27	---	---	---	24'	---	24'	---
30	---	---	---	24'	24'	24'	---
33	---	---	---	24'	---	---	---
36	---	---	---	24'	24'	24'	---
42	---	---	---	24'	---	24'	---
48	---	---	---	24'	---	24'	---
54	---	---	---	---	---	24'	---
60	---	---	---	---	---	24'	---

DUCTILE IRON, AWWA C151, CLASS 52

Pipe Diameter (in)	Class F-1 Bedding	Class F-2 Bedding	Class F-3 Bedding
4	40'	40'	40'
6	40'	40'	40'
8	40'	40'	40'
10	40'	40'	40'
12	37'	40'	40'
14	31'	40'	40'
16	28'	37'	40'
18	25'	34'	40'
20	23'	32'	40'
24	20'	29'	38'
30	18'	23'	31'
36	18'	22'	30'
42	17'	21'	29'
48	16'	19'	27'
54	16'	19'	27'

HDPE PIPE

Pipe Diameter (in)	AASHTO M 294
12	8'
15	9'
18	9'
24	9'
30	9'
36	9'
42	8'
48	8'
54	8'
60	8'

POLYPROPYLENE PIPE

Pipe Diameter (in)	ASTM F 2736	ASTM F 2764
12	24'	---
15	25'	---
18	22'	---
24	20'	---
30	22'	22'
36	---	21'
42*	---	22'
48*	---	23'
54*	---	21'
60*	---	21'

*Storm Sewer Only

SUDAS	IOWADOT	REVISION
		2 10-18-16
		SW-103
FIGURE 3010.103	STANDARD ROAD PLAN	SHEET 1 of 1
REVISIONS: Added polypropylene pipe for storm sewer applications.		
Paul D. Wiegand SUDAS DIRECTOR		
Brian Smith DESIGN METHODS ENGINEER		
FLEXIBLE GRAVITY PIPE TRENCH BEDDING		

01 FLEXIBLE GRAVITY PIPE TRENCH BEDDING
42 *NOT TO SCALE

Plot Date: 02/04/2019
Drawing Name: X:\clients_municipal\01112_storm_lake_la0010_wastewater_treatment_facility_pond09_dms_project\dwg\1112-10_DETAIL DRAWINGS.dwg
User: 1112-20_Street Section

NO	DATE	BY	REVISION
6			
5			
4	02/01/2019	BR	100% FINAL SUBMITAL
3	07/03/2018	BR	90% PRELIMINARY SUBMITTAL
2	01/05/2018	BR	60% PRELIMINARY SUBMITTAL
1	03/17/2017	BR	30% PRELIMINARY SUBMITTAL

811
Know what's below.
Call before you dig.

IOWA ONE CALL
1-800-252-8589

NOT FOR CONSTRUCTION

SUBMISSION DATE: 10/25/2017	DESIGN BY DRL	DRAWN BY BR
EOR PROJECT NO. 01112-0019		

Emmons & Olivier Resources, Inc.
7030 6th Street North
Oakdale, MN 55128
water ecology
community
Tel: 651.770.8448
www.eorinc.com

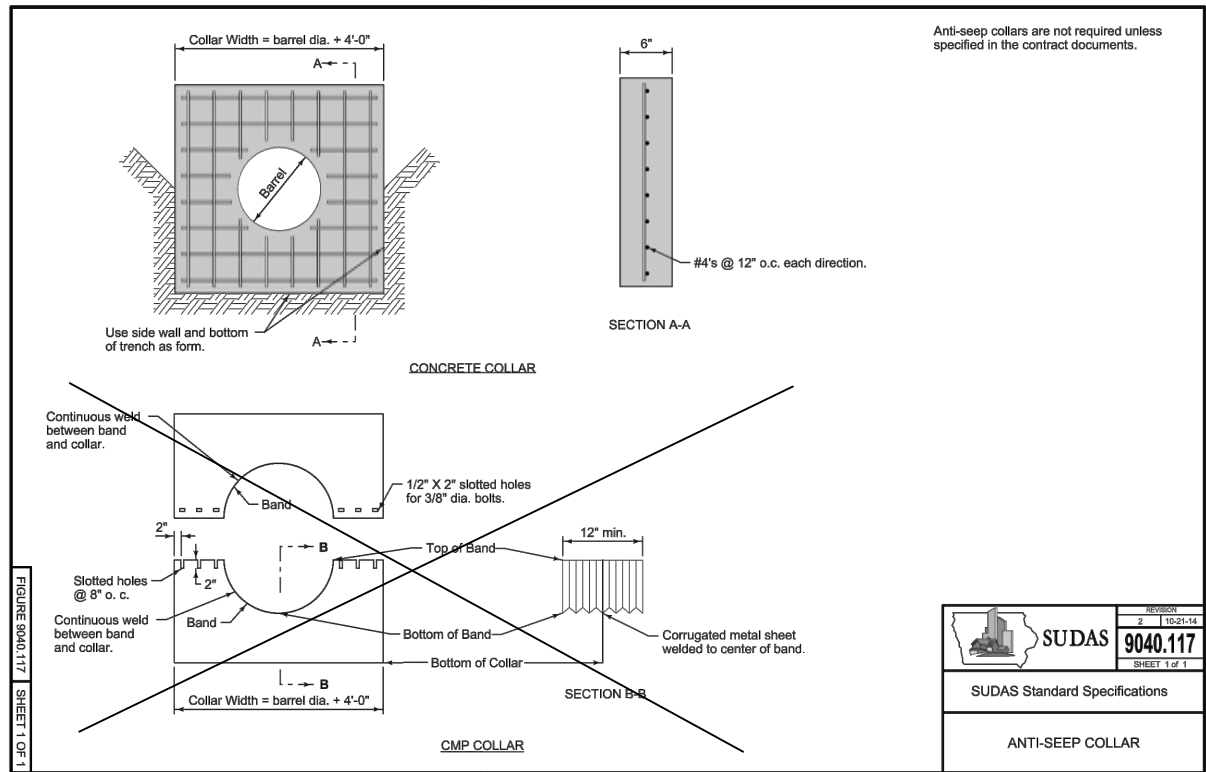
Storm Lake
Jump Right In!

WASTEWATER TREATMENT PLANT
WETLANDS
STORM LAKE, BUENA VISTA COUNTY,
IOWA

STATE PROJECT NO. --- CITY PROJECT NO. ---

DETAIL SHEET 04

SHEET 42 OF 46 SHEETS

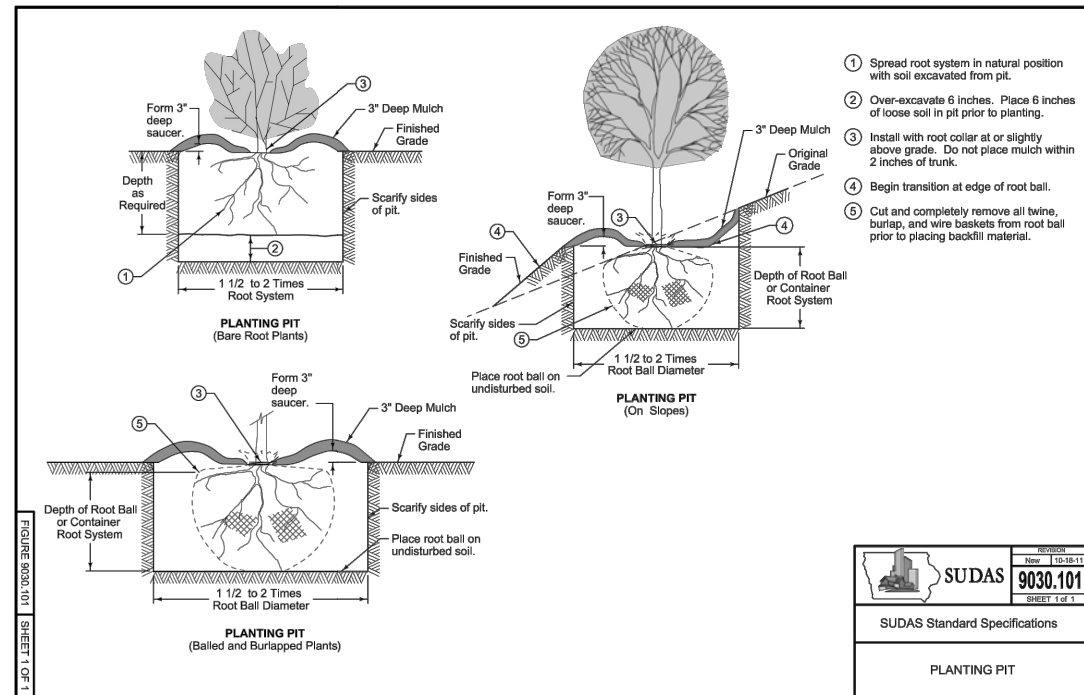


01 ANTI - SEEP COLLAR

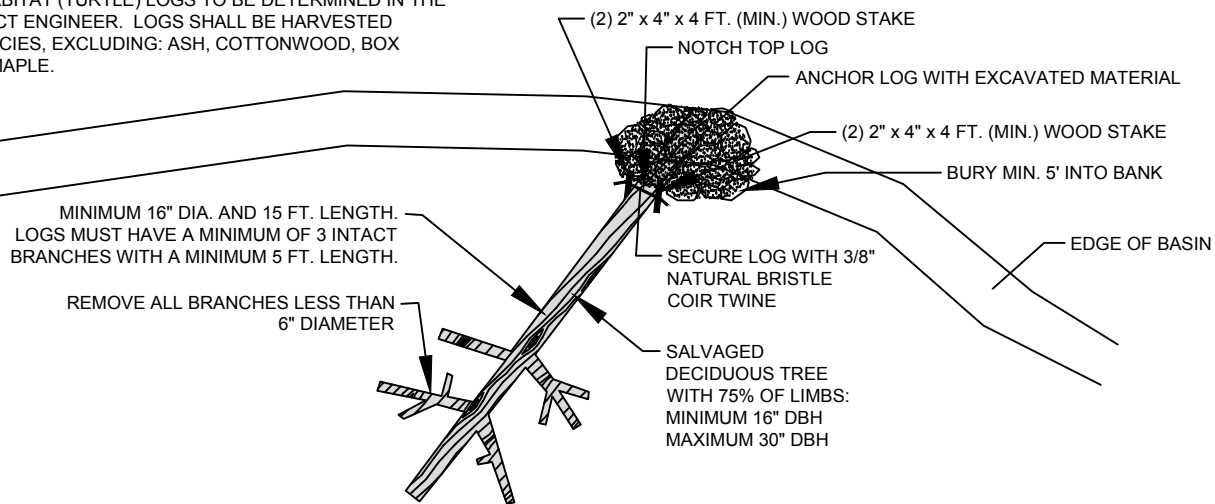
*NOT TO SCALE

02 SUDAS PLANTING DETAIL

*NOT TO SCALE

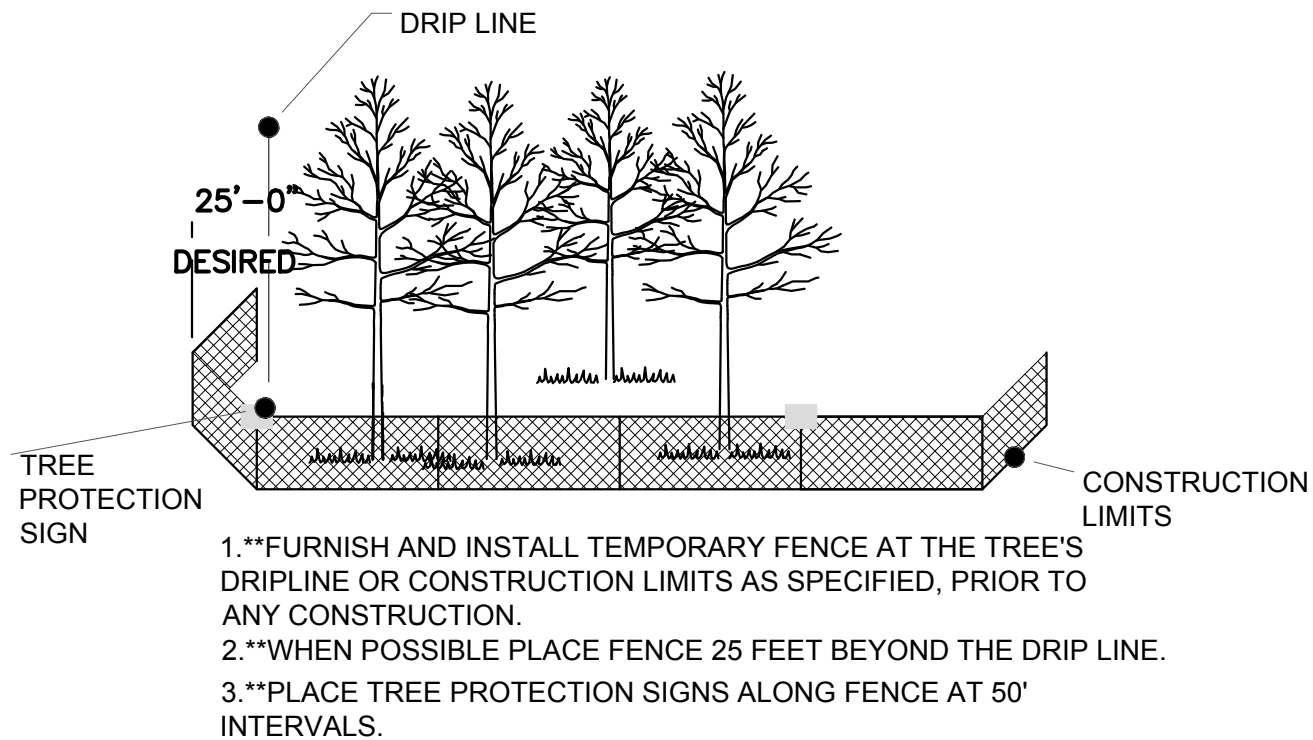


NOTE:
LOCATION OF HABITAT (TURTLE) LOGS TO BE DETERMINED IN THE FIELD BY PROJECT ENGINEER. LOGS SHALL BE HARVESTED HARDWOOD SPECIES, EXCLUDING: ASH, COTTONWOOD, BOX ELDER, SILVER MAPLE.



03 HABITAT LOG DETAIL

*NOT TO SCALE



04 TREE PROTECTION DETAIL

*NOT TO SCALE

Plot Date: 02/04/2019
Drawing Name: X:\clients_municipal\01112_storm_lake_la\0016_wastewater_treatment_facility_pond09_dms_project\dwg\1112-19_DETAIL DRAWINGS.dwg
Xrefs: 1112-20_Street Section

6			
5			
4	02/01/2019	BR	100% FINAL SUBMITAL
3	07/03/2018	BR	90% PRELIMINARY SUBMITTAL
2	01/05/2018	BR	60% PRELIMINARY SUBMITTAL
1	03/17/2017	BR	30% PRELIMINARY SUBMITTAL
NO	DATE	BY	REVISION



NOT FOR CONSTRUCTION

SUBMISSION DATE:	10/25/2017
DESIGN BY	DRL
DRAWN BY	BR
EOR PROJECT NO.	01112-0019

EOR Emmons & Olivier Resources, Inc.
7030 6th Street North
Oakdale, MN 55128
Tele: 651.770.8448
www.eorinc.com

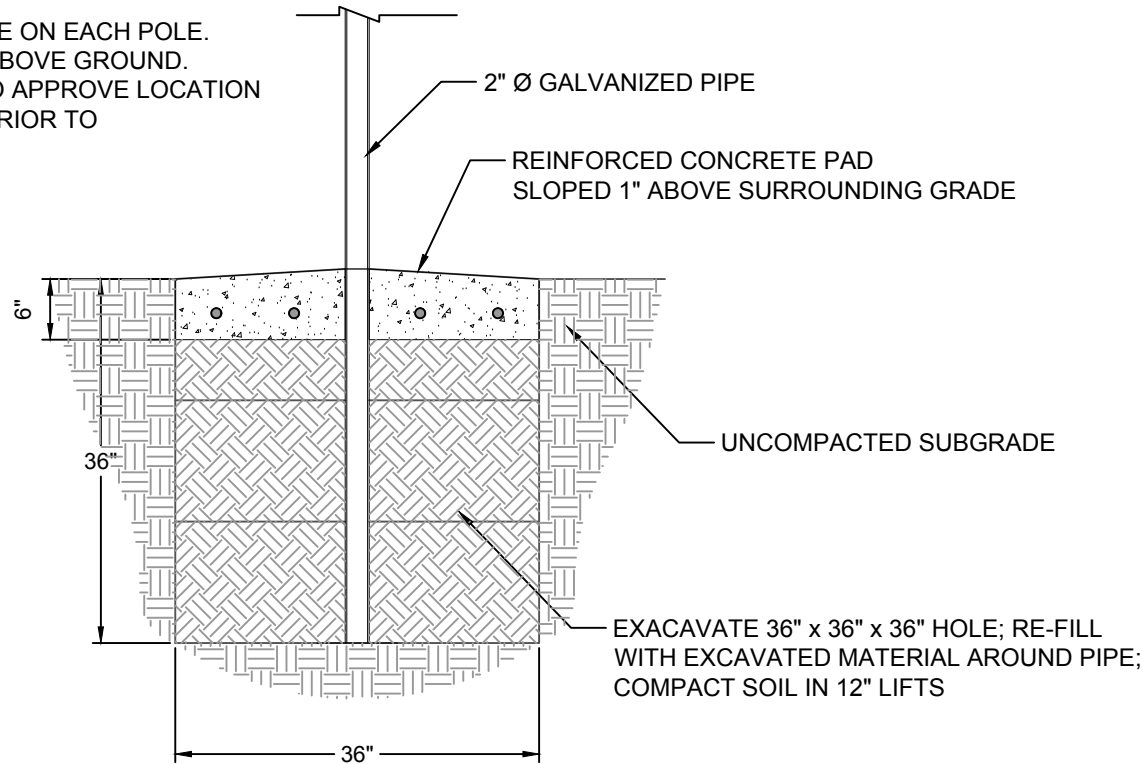


WASTEWATER TREATMENT PLANT
WETLANDS
STORM LAKE, BUENA VISTA COUNTY,
IOWA

DETAIL SHEET 05

SHEET 43 OF 46 SHEETS

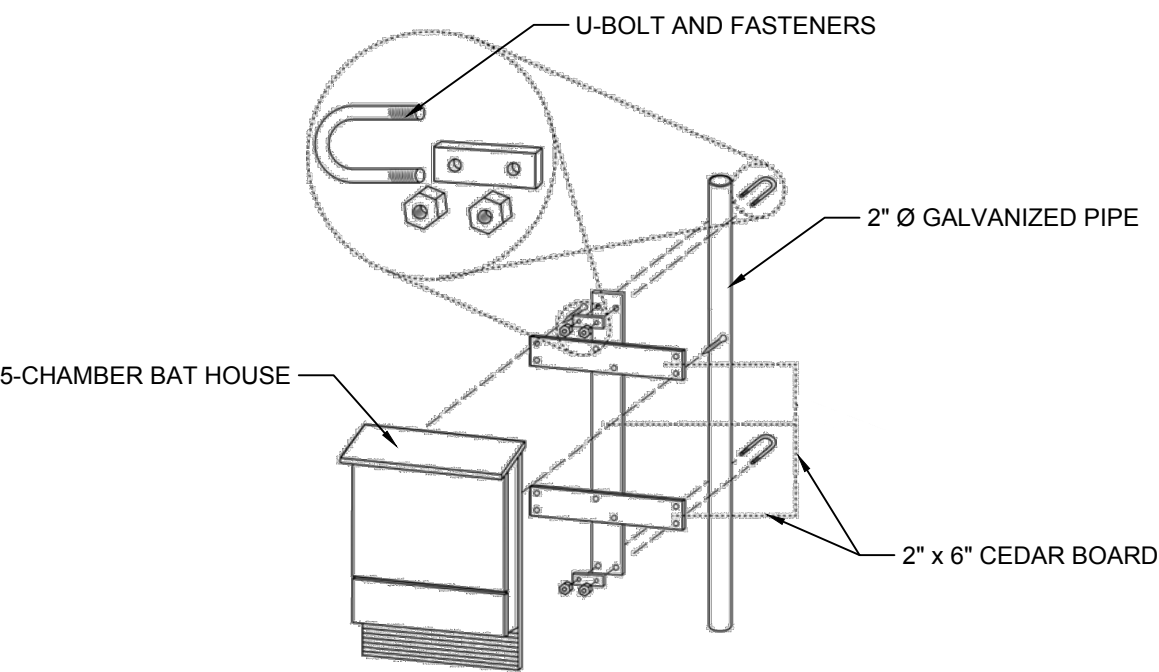
- BAT HOUSE NOTES:
- 1. MOUNT ONE BAT HOUSE ON EACH POLE.
 - 2. BAT HOUSE TO BE 17' ABOVE GROUND.
 - 3. PROJECT ENGINEER TO APPROVE LOCATION OF EACH BAT HOUSE PRIOR TO INSTALLATION.



01
44

BAT HOUSE POLE INSTALLATION DETAIL

*NOT TO SCALE



02
44

BAT HOUSE MOUNTING DETAIL

*NOT TO SCALE

Plot Date: 02/04/2019
Drawing Name: X:\clients_municipal\01112_storm_lake_la\0019_wastewater_treatment_facility_pond09_dms_project\dwg\1112-19_DETAIL DRAWINGS.dwg
Xrefs: 1112-20_Street Section

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2	01/05/2018	BR	60% PRELIMINARY SUBMITTAL
1	03/17/2017	BR	30% PRELIMINARY SUBMITTAL
NO	DATE	BY	REVISION



NOT FOR CONSTRUCTION

SUBMISSION DATE: 10/25/2017	
DESIGN BY BH	DRAWN BY BR
EOR PROJECT NO. 01112-0019	

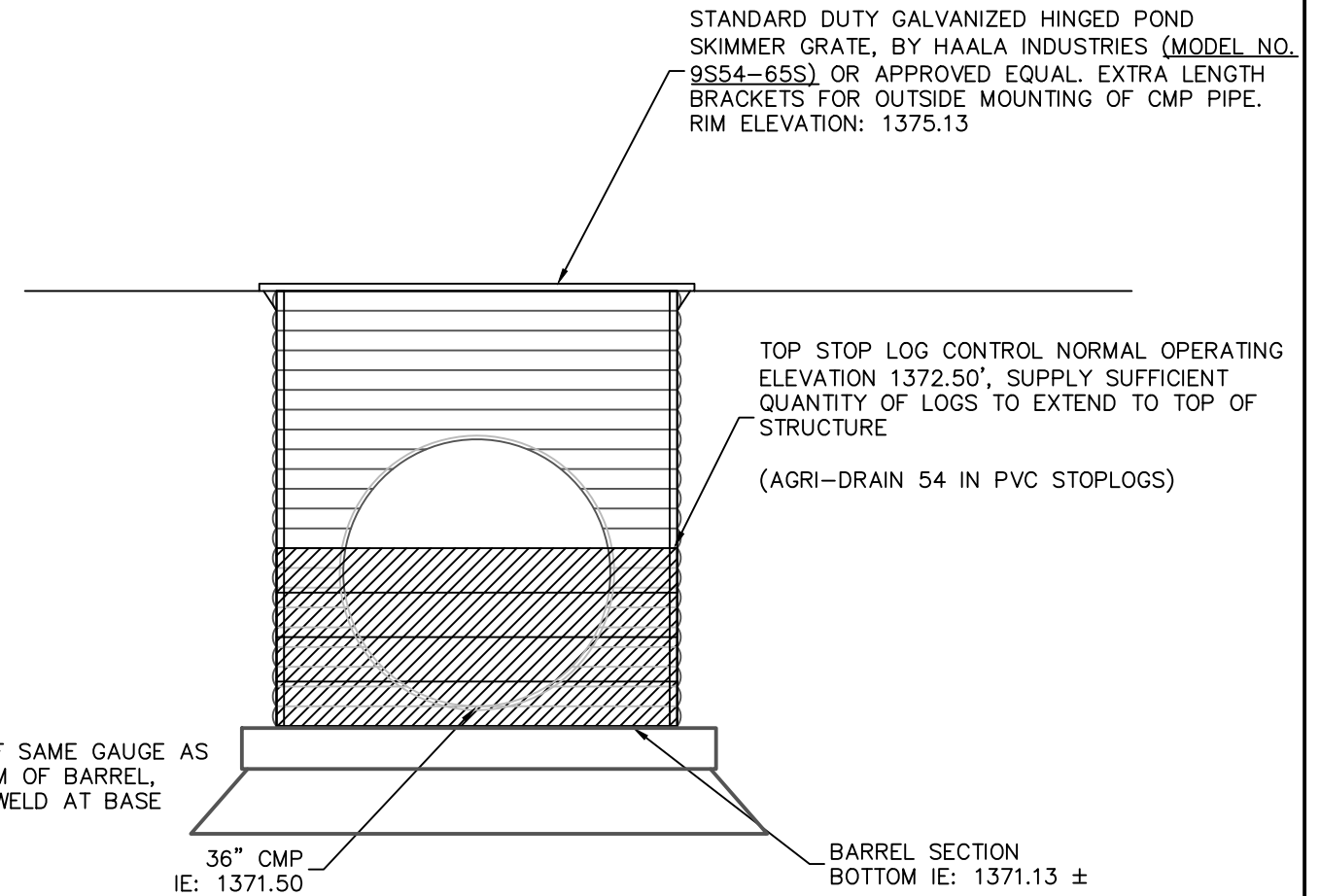
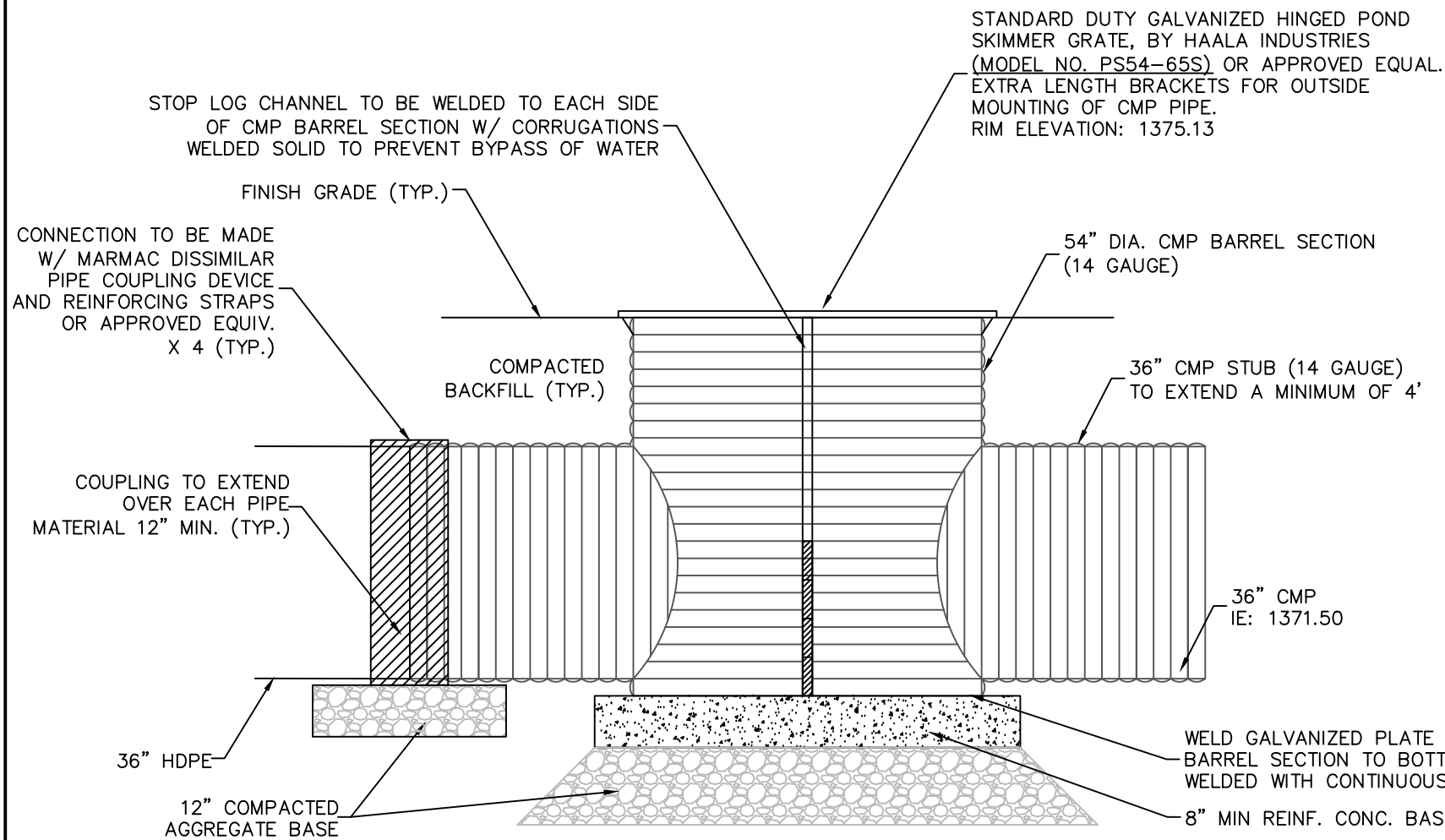
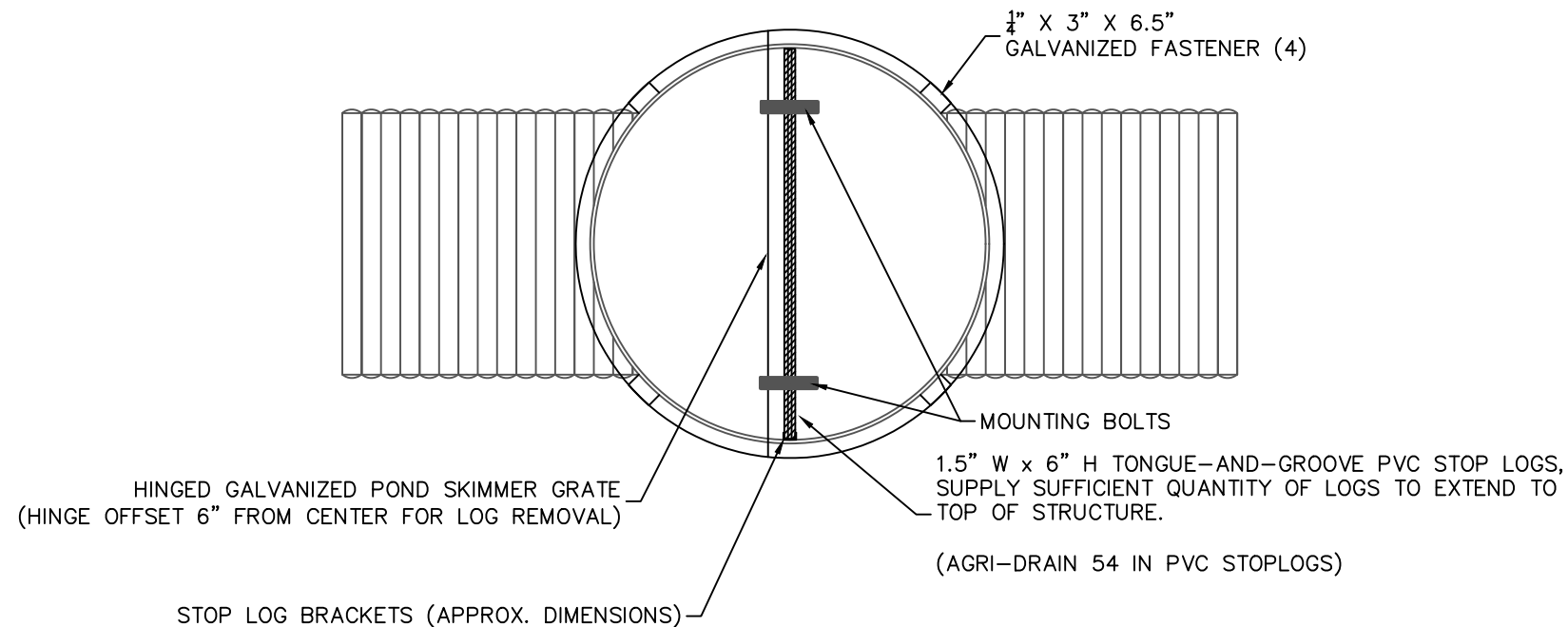
EO**R** **Emmons & Olivier Resources, Inc.**
7030 6th Street North
Oakdale, MN 55128
w a t e r e c o l o g y community
Tele: 651.770.8448
www.eorinc.com



WASTEWATER TREATMENT PLANT
WETLANDS
STORM LAKE, BUENA VISTA COUNTY,
IOWA

STATE PROJECT NO. --- CITY PROJECT NO. ---

DETAIL SHEET 06
SHEET 44 OF 46 SHEETS



Plot Date: 02/04/2019
Drawing Name: X:\clients_municipal\112_storm_lake_la0016_wastewater_treatment_facility_pond09_jms_project\dwg\112-19_DETAIL DRAWINGS.dwg
Xrefs: 112-20_Street Section

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4	02/01/2019	BR	100% FINAL SUBMITAL
3	07/03/2018	BR	90% PRELIMINARY SUBMITTAL
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1	03/17/2017	BR	30% PRELIMINARY SUBMITTAL
NO	DATE	BY	REVISION



NOT FOR CONSTRUCTION

SUBMISSION DATE: 10/25/2017
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DRAWN BY BR
EOR PROJECT NO. 01112-0019

EOR Emmons & Olivier
Resources, Inc.
7030 6th Street North
Oakdale, MN 55128
ecology Tele: 651.770.8448
community www.eorinc.com



WASTEWATER TREATMENT PLANT
WETLANDS
STORM LAKE, BUENA VISTA COUNTY,
IOWA

STATE PROJECT NO. --- CITY PROJECT NO. ---

DETAIL SHEET 07

SHEET 45 OF 46 SHEETS

Description: IA CP25 Standard Mix
Seeding Rate: 5.9 lb/acre (40.1 seeds/square foot)
Notes: This mix was developed using the IA NRCS Calculator from March 16, 2018.

Common Name	Scientific Name	% of Mix	Seeds/ft ²	Total lb
Grasses				
Big Bluestem	Andropogon gerardii	22.03%	4.8	1.300 PLS lb
Sideoats Grama	Bouteloua curtipendula	8.47%	1.1	0.500 PLS lb
Canada Wild Rye	Elymus canadensis	4.24%	0.5	0.250 PLS lb
June Grass	Koeleria cristata	1.36%	5.9	0.080 PLS lb
Switchgrass	Panicum virgatum	12.71%	3.9	0.750 PLS lb
Fowl Bluegrass	Poa palustris	1.36%	3.8	0.080 PLS lb
Little Bluestem	Schizachyrium scoparium	13.56%	4.4	0.800 PLS lb
Indiangrass	Sorghastrum nutans	20.34%	5.3	1.200 PLS lb
Rough Dropseed	Sporobolus aspera	0.68%	0.4	0.040 PLS lb
Forbs				
Western Yarrow	Achillea millefolium	0.76%	2.9	0.045 PLS lb
Common Milkweed	Asclepias syriaca	0.34%	0.0	0.020 PLS lb
Canada Milk Vetch	Astragalus canadensis	2.54%	0.9	0.150 PLS lb
Partridge Pea	Chamaecrista fasciculata	1.69%	0.1	0.100 PLS lb
Purple Prairie Clover	Dalea purpurea	3.39%	1.3	0.200 PLS lb
Illinois Bundle Flower	Desmanthus illinoensis	3.05%	0.3	0.180 PLS lb
Showy Tick Trefoil	Desmodium canadense	0.17%	0.0	0.010 PLS lb
Ox-eye Sunflower	Heliopsis helianthoides	0.51%	0.1	0.030 PLS lb
Prairie Blazingstar	Liatris pycnostachya	0.17%	0.0	0.010 PLS lb
Wild Bergamot	Monarda fistulosa	0.85%	1.3	0.050 PLS lb
Prairie Cinquefoil	Potentilla arguta	0.17%	0.8	0.010 PLS lb
Black-eyed Susan	Rudbeckia hirta	0.93%	1.9	0.055 PLS lb
Hoary Vervain	Verbena stricta	0.34%	0.2	0.020 PLS lb
Golden Alexanders	Zizia aurea	0.34%	0.1	0.020 PLS lb

Description: IA CP23 Wet Mix
Seeding Rate: 4.07 lb/acre (40.1 seeds/square foot)
Notes: This mix was developed using the IA NRCS Calculator from March 16, 2018.

Common Name	Scientific Name	% of Mix	Seeds/ft ²	Total lb
Grasses				
Big Bluestem	Andropogon gerardii	44.23%	6.6	1.8000 PLS lb
Fringed Brome	Bromus ciliatus	46.68%	7.0	1.9000 PLS lb
Porcupine Sedge	Carex hystericina	0.74%	0.3	0.0300 PLS lb
Pointed-broom Sedge	Carex scoparia	1.23%	1.5	0.0500 PLS lb
Brown Fox Sedge	Carex vulpinoidea	0.98%	1.5	0.0400 PLS lb
Fowl Manna Grass	Glyceria striata	0.25%	0.6	0.0100 PLS lb
Path Rush	Juncus tenuis	0.25%	3.7	0.0100 PLS lb
Fowl Bluegrass	Poa palustris	3.69%	7.2	0.1500 PLS lb
Green Bulrush	Scirpus atrovirens	0.25%	1.7	0.0100 PLS lb
Forbs				
Water Plantain	Alisma subcordatum	0.12%	0.1	0.0050 PLS lb
Boneset	Eupatorium perfoliatum	0.12%	0.3	0.0050 PLS lb
Great St. John's Wort	Hypericum pyramidatum	0.74%	2.1	0.0300 PLS lb
Great Blue Lobelia	Lobelia siphilitica	0.25%	1.8	0.0100 PLS lb
Monkey Flower	Mimulus ringens	0.11%	3.8	0.0045 PLS lb
Blue Vervain	Verbena hastata	0.25%	0.3	0.0100 PLS lb
Culver's Root	Veronicastrum virginicum	0.14%	1.6	0.0055 PLS lb

Table 9010.08: Type 3 Seed Mixture

Common Name	Application Rate lb/acre
Big bluestem*	3 PLS
Grain rye	40
Indiangrass*	4 PLS
Little bluestem*	3 PLS
Oats	16
Sideoats grama*	5 PLS
Switchgrass*	1 PLS

* Furnish seed certified as Source Identified Class (Yellow Tag) Source G0-Iowa.

Plot Date: 02/04/2019
Drawing Name: X:\clients_municipal\01112_storm_lake_ia\0010_wastewater_treatment_facility_pond09_dms_projectname.dwg\1112-10_DETAIL DRAWINGS.dwg
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NO	DATE	BY	REVISION

SUBMISSION DATE: 10/25/2017	
DESIGN BY BH	DRAWN BY BR
EOR PROJECT NO. 01112-0019	



**Emmons & Olivier
Resources, Inc.**
7030 6th Street North
Oakdale, MN 55128
Tele: 651.770.8448
www.eorinc.com



WASTEWATER TREATMENT PLANT WETLANDS STORM LAKE, BUENA VISTA COUNTY, IOWA	
STATE PROJECT NO. ---	CITY PROJECT NO. ---

DETAIL SHEET 08
SHEET 46 OF 46 SHEETS

NOTICE OF PUBLIC HEARING

NOTICE OF PUBLIC HEARING ON PROPOSED PLANS AND SPECIFICATIONS, PROPOSED FORM OF CONTRACT AND ESTIMATE OF COST FOR THE CONSTRUCTION OF THE WASTEWATER TREATMENT FACILITY WETLANDS PROJECT FOR THE CITY OF STORM LAKE, IOWA

Notice is hereby given that the City Council of the City of Storm Lake, Iowa, will meet in the City Council Chambers of City Hall at 620 Erie Street, Storm Lake, Iowa, on the 21st day of October, 2019, at 5:00 o'clock P.M., at which time and place, a hearing will be held on the proposed plans and specifications, form of contract and estimate of cost for the construction of the Wastewater Treatment Facility Project. At said hearing, the City Council will consider said plans and specifications, proposed form of contract and the estimate of cost for the project, the same now being on file in the office of the City Clerk, and at said time and place the said City Council will also receive and consider any objections to said plans, specifications and form of contract or cost of such project made by any interested party.

Published upon order of the City Council of the City of Storm Lake, Iowa.

Keri Navratil
City Manager

Staff Summary

10/21/2019

Agenda Item # 8.



City of Storm Lake
PO Box 1086
Storm Lake, IA 50588
p (712) 732-8000
f (712) 732-4114

REPORT TO: Honorable Mayor and City Council

FROM: Scott Olesen, Building Official

SUBJECT: **Resolution No. 34-R-2019-2020 Approving Plans, Specification, and Form of Contract for Wastewater Treatment Facility Wetlands Project**

BACKGROUND: The project will consist of wetland restorers on the same site as the Wastewater Treatment Facility. The wetland plants will filter out harmful substances before the water is released to the Raccoon River. Reduction of runoff to the river and improvement of stormwater quality will enhance the river water and assist the City in meeting the Nutrient Reduction requirement for our new Wastewater Treatment Permit.

FISCAL IMPACT: The project will be funded 75% by Federal HUD grant and 25% wastewater user fees. Engineer's Estimate cost is \$1,219,000.

RECOMMENDATION: Approve Resolution No. 34-R-2019-2020

ATTACHMENTS:

Description	Type
□ Resolution No. 34-R-2019-2020	Resolution
□ Project Final Part 1	Backup Material
□ Project Final Part 2	Backup Material
□ Project Final Part 3	Backup Material
□ Project Final Part 4	Backup Material
□ Project Final Part 5	Backup Material

RESOLUTION NO. 34-R-2019-2020

**RESOLUTION ADOPTING PLANS, SPECIFICATIONS, FORM OF
CONTRACT, ESTIMATE OF COST AND BID FORM FOR THE
WASTEWATER TREATMENT FACILITY WETLANDS PROJECT**

WHEREAS, the plans, specifications, form of contract, estimate of cost, and bid form were filed with the CITY for the construction of certain public improvements described in general as the Wastewater Treatment Facility Wetlands Project; and

WHEREAS, notice of hearing on plans, specifications, form of contract and estimate of cost for said public improvements was published as required by law:

NOW, THEREFORE, BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF STORM LAKE, IOWA;

Section 1. That the said plans, specifications, form of contract, estimate of cost, and bid form are hereby approved as the plans, specifications, form of contract, estimate of cost and bid form for said public improvements, as described in the preamble of this Resolution.

PASSED AND APPROVED this 21st day of October, 2019.

Michael Porsch, Mayor

ATTEST:

Mayra A. Martinez, City Clerk

CITY OF STORM LAKE

WASTEWATER TREATMENT PLANT

WETLANDS

STORM LAKE, BUENA VISTA COUNTY, IOWA

I HEREBY CERTIFY THAT THIS ENGINEERING DOCUMENT WAS PREPARED BY ME OR UNDER MY DIRECT PERSONAL SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF IOWA

DEREK R. LASH, P.E.

REG. NO. P21838 DATE. _____

MY LICENSE RENEWAL DATE IS 12/31/2020

PAGES OR SHEETS COVERED BY THIS SEAL:
ALL SHEETS

I HEREBY CERTIFY THAT THE PORTION OF THE TECHNICAL SUBMISSION DESCRIBED BELOW WAS PREPARED BY ME OR UNDER MY DIRECT PERSONAL SUPERVISION AND THAT I AM A DULY LICENSED LANDSCAPE ARCHITECT UNDER THE LAWS OF THE STATE OF IOWA

BRITTA M. HANSEN, PLA

REG. NO. 00696 DATE. _____

MY LICENSE RENEWAL DATE IS 06/30/2020

PAGES OR SHEETS COVERED BY THIS SEAL:



Sheet List Table	
Sheet Number	Sheet Title
01	TITLE SHEET
02	SCHEDULE OF ESTIMATED QUANTITIES & LEGEND
03	GENERAL NOTES & LEGEND
04-06	EXISTING CONDITIONS
07-10	SOIL BORING INFORMATION
11	SURVEY CONTROL PLAN
12-13	STORM WATER POLLUTION PREVENTION SITE PLAN
14-16	EROSION AND SEDIMENT CONTROL PLAN
17	DEMOLITION AND REMOVALS PLAN
18	SITE ENTRANCE CONSTRUCTION PLAN
19-30	GRADING AND DRAINAGE PLAN
31	EARTH WORK CUT FILL DIAGRAM
32	STORM SEWER OVERVIEW
33-35	STORM SEWER PLAN AND PROFILE
36-38	LANDSCAPE RESTORATION PLAN
39-46	DETAIL SHEETS

* THIS PLAN SET CONTAINS 46 PLAN SHEETS

RESOURCE LIST

CITY OF STORM LAKE

CITY HALL
620 ERIE STREET
P.O. BOX 1086
STORM LAKE, IA 50588

CITY MANAGER: KERI NAVRATIL

MAYOR: MIKE PORSCH

CITY COUNCIL MEMBERS:
DAN SMITH
JOSE IBARRA
KEVIN MCKINNEY
BRUCE ENGELMANN
TYSON RICE

DEPARTMENT HEAD: SCOTT OLESEN
SUPERVISOR: MARK STREED

UTILITIES

LOCAL
CITY OF STORM LAKE
433 VILAS ROAD
STORM LAKE, IA 50588
712-732-8029

ELECTRIC
MID AMERICAN
1016 VESTAL ST
STORM LAKE, IA 50588
712-749-7116

GAS
MID AMERICAN
1016 VESTAL ST
STORM LAKE, IA 50588
712-749-7116

IOWA ONE CALL

Required 48-Hour Notice

Prior to the commencement of any excavation planned or scheduled to occur within the state of Iowa, all excavators (persons planning to engage in any form of excavating) must contact the Iowa One Call Notification System and provide notice of the planned excavation at least 48-hours prior to the commencement of the planned excavation – excluding Saturdays, Sundays and legal holidays.

Failure to notify the Iowa One Call System prior to engaging in any type of digging or excavating is a serious breach of Iowa law. Contractors and professional excavators perform more activities that disturb the earth than any other sector and the rules and regulations involving excavation safety and underground damage prevention are critical to the professional contractor and excavator.

Methods of Providing Information for Locate Requests

The IOC Call Center can be Reached 24-Hours a Day, 7 Days a Week via your landline or cellular telephone:

Simply dial 811 or call 800-292-8989

Online Ticket Entry System: WWW.IOWAONECALL.COM

The new "iTic" system provides a user-friendly Internet-based application for submitting and tracking Iowa One Call locate requests.

Each locate request that is processed is assigned a serial number by the computer. This number contains all the information about your call. It is important to write this number down and keep it with your records. Iowa One Call retains this information for six years.

Excavators may be liable for any damages they may cause to buried facilities. Simply calling Iowa One Call does not necessarily relieve an excavator of these potential liabilities. For example, a damaged fiber optics line may be extremely costly to repair and the financial obligation of the contractor/excavator responsible for the damage.

Excavators need to take precautions and dig safely to avoid damaging buried facilities. In the event the locate markings are clearly inaccurate the liability for damage may shift to the facility operator.

CONSTRUCTION NOTE

CONTRACTOR SHALL TAKE ALL NECESSARY MEASURES TO MAINTAIN OPERATION OF EXISTING UTILITIES THROUGHOUT THE DURATION OF THE PROJECT. IN THE EVENT THAT AN INTERRUPTION OF SERVICE IS UNAVOIDABLE IN ORDER TO COMPLETE THE WORK, CONTRACTOR SHALL PROVIDE ADEQUATE NOTIFICATION TO ALL AFFECTED BUSINESSES AND/OR RESIDENCES A MINIMUM OF 3 WORKING DAYS IN ADVANCE OF ANY INTERRUPTION.

EXISTING UTILITIES

THE LOCATION OF UNDERGROUND FACILITIES AND/OR STRUCTURES AS SHOWN ON THE PLANS ARE BASED ON AVAILABLE RECORD AT THE TIME THE PLANS WERE PREPARED AND ARE NOT GUARANTEED TO BE COMPLETE OR CORRECT.

THE SUBSURFACE UTILITY INFORMATION SHOWN IS UTILITY QUALITY LEVEL D, AS DETERMINED USING THE GUIDELINES OF "CI/ASCE 38-02 STANDARD GUIDELINES FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA."

THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING ALL UTILITIES AT LEAST 48 HOURS PRIOR TO CONSTRUCTION TO DETERMINE THE EXACT LOCATION OF ALL FACILITIES AND TO PROVIDE ADEQUATE PROTECTION OF SAID UTILITIES DURING THE COURSE OF WORK.

LOCATION MAP

PROJECT LOCATION

O'BRIEN COUNTY

CLAY COUNTY

PALO ALTO COUNTY

CHEROKEE COUNTY

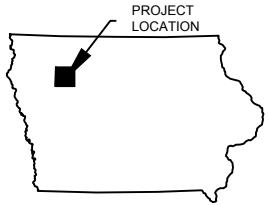
BUENA VISTA COUNTY

POCAHONTAS COUNTY

IDA COUNTY

SAC COUNTY

CALHOUN COUNTY



GOVERNING SPECIFICATIONS

THE 2019 REVISED EDITION OF THE SUDAS "STATEWIDE URBAN DESIGN AND SPECIFICATIONS (SUDAS) MANUAL, 2015 IOWA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS, AND SPECIAL PROVISIONS SHALL GOVERN.

ALL TRAFFIC CONTROL DEVICES AND SIGNING SHALL CONFORM TO IOWA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, INCLUDING FIELD MANUAL FOR TEMPORARY CONTROL ZONE LAYOUTS.

CLIENT

CITY OF STORM LAKE
620 ERIE STREET
P.O. BOX 1086
STORM LAKE, IA 50588

ENGINEER

EMMONS & OLIVIER RESOURCES, INC.
7030 6th STREET NORTH
OAKDALE, MINNESOTA 55128-7534
TELEPHONE: (651) 770-8448
FAX: (651) 770-2552
eorinc.com

Proj Date: 02/04/2019
Drawing name: X:\clients_municipal\01112_storm_lake_a\0018_wastewater_treatment_facility_pond\09_gms_projectname.dwg 1112-19_30_Plans\1112-19_Title_Sheet.dwg
Xrefs:

6			
5			
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2	01/05/2018	BR	60% PRELIMINARY SUBMITTAL
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NO	DATE	BY	REVISION



NOT FOR CONSTRUCTION

SUBMISSION DATE: 10/25/2017	
DESIGN BY DRL	DRAWN BY BR
EOR PROJECT NO. 01112-0019	

Emmons & Olivier Resources, Inc.
7030 6th Street North
Oakdale, MN 55128
ecology
community
www.eorinc.com



WASTEWATER TREATMENT PLANT
WETLANDS
STORM LAKE, BUENA VISTA COUNTY,
IOWA

STATE PROJECT NO. --- | CITY PROJECT NO. ---

TITLE SHEET

SHEET 01 OF 46 SHEETS

Plot Date: 12/24/2019
Drawing name: X:\clients_municipal\112_storm_lake_a\0019_wastewater_treatment_facility_pond\09_gms_projectname\dwg\112-19_30_Plans\112-19_SEQ_Construction_Submittals.dwg
Xrefs: 112_0019 XBase

Item No.	Item	Sudas Reference #	Unit	Estimated Quantity	As-Built Quantity
Division 2 - Earthwork					
1	Clearing and Grubbing, 6" - 18"	2010-1.08-A	EA	4	
2	Excavation Class 13	2010-1.08-E	CY	143000	
3	Subgrade Preparation	2010-1.08-G	SY	1660	
4	Subgrade Treatment	2010-1.08-H	SY	1660	
5	Subbase, Modified (8")	2010-1.08-I	TON	698	
Division 4 - Sewers and Drains					
6	Storm Sewer, Class V RCP, 18"	4020-1.08-A	LF	34	
7	Storm Sewer, HDPE 24"	4020-1.08-A	LF	230	
8	Storm Sewer, HDPE 36"	4020-1.08-A	LF	40	
9	RCP Apron, 18"	4030-1.08-B	EA	1	
10	CMP Apron, 24"	4030-1.08-B	EA	10	
11	CMP Apron, 36"	4030-1.08-B	EA	2	
Division 6: Structures for Sanitary and Storm Sewer					
12	Agri-Drain, 24" x 4' , PT, Inline Water Level Control Structure	Special	EA	5	
13	Agri-Drain, 54" x 4' , CMP, Inline Water Level Control Structure	Special	EA	1	
14	54" Top Mount Hinged Pond Grate	Special	EA	1	
Division 9 - Site Work and Landscaping					
15	Conventional seeding: seeding, Fertilizing and conventional mulching, type 1 seed mixture (Permanent Lawn Mixture)	9010-1.08-A	ACRE	0.50	
16	Conventional seeding: seeding, fertilizing and conventional mulching, type 3 seed mixture (permanent warm-season slope and ditch mixture)	9010-1.08-A	ACRE	18.80	
17	Warranty, 2-Year Vegetation Establishment & Maintenance Period (to start after final payment)	9010-1.08-E	LS	1	
18	Hydromulch: Bonded Fiber Matrix	9010-1.08	ACRE	31.70	
19	Seeding: CP23 Wet Mix	Special	ACRE	8.50	

20	Seeding: CP25 Standard Mix	Special	ACRE	3.90	
21	Tree (2")	9030-1.08-A	EA	31	
22	Shrub (#5)	9030-1.08-A	EA	660	
23	Tree (Including warranty)	9030-1.08-B	EA	4	
24	Habitat Log	Special	EA	5	
25	Bat House	Special	EA	5	
26	SWPPP Management	9040-1.08-A	LS	1	
27	SWPPP Qualifying Rain Event Inspection (>0.5")	9040-1.08-A	EA	30	
28	Rip Rap, Class E Revetment w/ Geotextile Fabric	9040-1.08-J	TON	277	
29	Rubber (6'x6')Anti-Seep Collar	9040-1.08L1	EA	10	
30	Concrete (8'x8') Anti-Seep Collar	9040-1.08L2	EA	2	
31	Silt Fence, install	9040-1.08-N1	LF	2200	
32	Silt Fence, removal	9040-1.08-N3	LF	2200	
33	Stabilized Construction Entrance	9040-1.08-O2	EA	1	
34	Dust Control, Water (per thousand gallons)	9040-1.08-P1	MGAL	100	
35	Turf Reinforcement Mats (TRM), Type 2 - Landlok 450 or Approved Equal	9040-1.08-R	SQUARE	42	
36	Additional Erosion Control Measures	Special	ALLOW	1	
37	Chain Link Fence	9060-1.08-A	LF	700	
38	Gates	9060-1.08-B	EA	2	
39	Removal of Fence	9060-1.08-E	LF	26	
Division 11 - Miscellaneous					
40	Mobilization	11,020-1.08A	LS	1	
Add Alternate 1					
AA.1	Additional Warranty, 1-Year Vegetation Establishment & Maintenance Period (to start after final payment)	9010-1.08-E	LS	1	

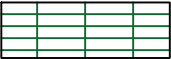
LEGEND

FEATURE

EXISTING

PROPOSED

TURF REINFORCEMENT MAT
PRODUCT, TYPE 2



SILT FENCE



CONSTRUCTION ENTRANCE



EXISTING MAJOR CONTOUR LINES ——— — 1410 ——— ———

EXISTING MINOR CONTOUR LINES — — — — 1407 — — — —

PROPOSED MAJOR CONTOUR LINES - - - - - 1400 - - - - -

PROPOSED MINOR CONTOUR LINES ————— 1407 —————

SOIL BORING LOCATION



SOIL BORING
LOCATION 25

CHAIN LINK FENCE



STORM SEWER LINE



STORM SEWER MANHOLE



PROPERTY BOUNDARY



GRADE ARROWS

0.25%-->

SLOPE ARROW



SPOT ELEVATION

1410.0

1405.75

UTILITY CAUTION



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WASTEWATER TREATMENT PLANT WETLANDS STORM LAKE, BUENA VISTA COUNTY, IOWA	
STATE PROJECT NO. ---	CITY PROJECT NO. ---

SCHEDULE OF ESTIMATED QUANTITIES & LEGEND
SHEET 02 OF 46 SHEETS

Plot Date: 12/24/2019
Drawing name: X:\clients_municipal\112_storm_lake_a\0019_wastewater_treatment_facility_pond\09_gms_projects\mxd\112-19_30_Plans\112-19_SEO_Construction_Submittals.dwg
Xrefs: 112_0019 X-Base

GRADING & EROSION CONTROL NOTES

1.

CONTRACTOR TO VERIFY THE LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO BEGINNING ANY CONSTRUCTION BY CALLING IOWA ONE CALL AT 1-800-292-8989.
2.

CONTRACTOR SHALL FIELD VERIFY THE LOCATIONS AND ELEVATIONS OF EXISTING UTILITIES AND TOPOGRAPHIC FEATURES PRIOR TO START OF SITE GRADING. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY DISCREPANCIES OR VARIATIONS.
3.

CONTRACTOR SHALL BE RESPONSIBLE FOR ALL HORIZONTAL AND VERTICAL CONTROL.
4.

ACCEPTANCE OF INSTALLED PERIMETER EROSION CONTROL, AND CONSTRUCTION ENTRANCE MUST BE MADE BEFORE BEGINNING SITE GRADING ACTIVITIES. SOME TEMPORARY EROSION CONTROL MEASURES MAY BE INSTALLED AS GRADING OCCURS IN THE SPECIFIC AREA. MAINTAIN EROSION CONTROLS THROUGHOUT THE GRADING PROCESS AND REMOVE UPON APPROVAL OF ENGINEER.
5.

CONTRACTOR TO ADHERE TO ALL REQUIREMENTS OF CITY, COUNTY, STATE AND N.P.D.E.S PERMITS.
6.

ALL EXPOSED SOIL AREAS WITHIN 100 FEET OF A WATER OF THE STATE OR ANY STORMWATER CONVEYANCE SYSTEM WHICH IS CONNECTED TO A WATER OF THE STATE MUST BE STABILIZED WITHIN 24 HOURS.
7.

ALL CONSTRUCTION ENTRANCES SHALL BE SURFACED WITH CRUSHED ROCK ACROSS FULL WIDTH FROM ENTRANCE POINT INTO THE CONSTRUCTION ZONE PER SUDAS SPECIFICATIONS.
8.

ALL EROSION CONTROL MEASURES SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH CITY, COUNTY, STATE AND N.P.D.E.S. PERMITS.
9.

THE CONTRACTOR SHALL MAINTAIN ALL EROSION CONTROL MEASURES, INCLUDING THE REMOVAL OF ACCUMULATED SILT IN FRONT OF TEMPORARY EROSION CONTROL MEASURES THROUGHOUT CONSTRUCTION.
11.

MAINTAIN EXISTING EROSION CONTROL. RE-ESTABLISH ANY EXISTING EROSION CONTROL DISTURBED BY CONSTRUCTION.
12.

CONTRACTOR SHALL PROVIDE ADDITIONAL TEMPORARY EROSION CONTROL MEASURES AS REQUIRED FOR CONSTRUCTION OR AS REQUIRED BY ENGINEER.
13.

REMOVE ALL EROSION CONTROL MEASURES UPON APPROVAL OF ENGINEER.
14.

THE CONTRACTOR SHALL REMOVE ALL SOILS AND SEDIMENT TRACKED ONTO EXISTING STREETS AND PAVED AREAS WITHIN 24 HOURS OF DISCOVERY OR AS REQUESTED BY ENGINEER.
16.

IF BLOWING DUST IS DEEMED A NUISANCE BY ENGINEER, OWNER, PERMITTING AUTHORITIES, OR ADAJCENT LAND OWNERS, THE CONTRACTOR SHALL APPLY WATER FROM A TANK TRUCK OR APPROVED EQUAL TO ALL CONSTRUCTION AREAS IMMEDIATELY.
17.

SWEEP ADJACENT STREETS WITH SWEEPER AND PICK-UP BROOM IN ACCORDANCE WITH CITY, COUNTY, STATE, AND N.P.D.E.S. PERMIT REQUIREMENTS.
18.

INSPECT EROSION CONTROL DEVICES AFTER EACH RAINFALL PER SUDAS AND SPECIAL PROVISIONS. IMMEDIATELY REPAIR FAILED OR FAILING EROSION CONTROL DEVICES.
19.

SEE SPECIFICATIONS FOR COMPACTION REQUIREMENTS. NOTIFY ENGINEER 72 HOURS, MINIMUM FOR CRITICAL AREAS RECEIVING COMPACTION TESTING SO ADEQUATE INSPECTION CAN TAKE PLACE. FAILURE TO NOTIFY ENGINEER MAY RESULT IN CORRECTIVE WORK PERFORMED AT CONTRACTOR'S EXPENSE.
20.

ALL GREEN SPACE AREAS TO BE DECOMPACTED TO A MINIMUM 12" DEPTH PRIOR TO RECEIVING MINIMUM 8" TOPSOIL. PROJECT REQUIRES DECOMPACTION OF ALL AREAS RECEIVING VEGETATION.
21.

SEE SUDAS SECTION 2010, EARTHWORK, SUBGRADE, AND SUBBASE FOR ALL EXCAVATION RELATED WORK AND QUALITY CONTROL.
22.

SEE SUDAS SECTION 4020, STORM SEWER AND STANDARD DETAILS FOR STORM SEWER INSTALLATION AND QUALITY CONTROL.
23.

SEE SUDAS SECTION 6010, STRUCTURES FOR SANITARY AND STORM SEWER, FOR STORM SEWER STRUCTURES INSTALLATION AND QUALITY CONTROL.
24.

REVIEW SPECIAL PROVISIONS FOR MODIFICATIONS TO IDOT OR SUDAS SPECIFICATIONS.
25.

EARTHWORK ASSUMPTIONS

A.

SEE CONTRACT DOCUMENTS FOR INCLUSIONS, INCLUDING BUT NOT LIMITED TO MEASUREMENT & PAYMENT.

B.

ALL QUANTITIES ARE PLAN (P) QUANTITIES.

C.

TOPSOIL STRIPPING INCLUDES A SUBCUT OF 12" DEEP FOR SOIL HANDLING IN ADDITION TO CUT TO FILL, AND AS SUCH IS INCLUDED IN QUANTITY FOR EXCAVATION.

GENERAL LANDSCAPE NOTES

1.

LANDSCAPE CONTRACTOR SHALL INSPECT THE SITE AND BECOME FAMILIAR WITH EXISTING CONDITIONS RELATING TO THE NATURE AND SCOPE OF WORK.
2.

LANDSCAPE CONTRACTOR SHALL VERIFY PLAN LAYOUT AND BRING TO THE ATTENTION OF THE LANDSCAPE ARCHITECT DISCREPANCIES WHICH MAY COMPROMISE THE DESIGN OR INTENT OF THE LAYOUT.
3.

LANDSCAPE CONTRACTOR SHALL ASSURE COMPLIANCE WITH APPLICABLE CODES AND REGULATIONS GOVERNING THE WORK AND MATERIALS SUPPLIED.
4.

LANDSCAPE CONTRACTOR SHALL PROTECT EXISTING ROADS, CURBS/GUTTERS, TRAILS, TREES, LAWNS AND SITE ELEMENTS DURING CONSTRUCTION OPERATIONS. DAMAGE TO SAME SHALL BE REPAIRED AT NO ADDITIONAL COST TO THE OWNER.
5.

LANDSCAPE CONTRACTOR SHALL VERIFY ALIGNMENT AND LOCATION OF UNDERGROUND AND ABOVE GRADE UTILITIES AND PROVIDE THE NECESSARY PROTECTION FOR SAME BEFORE CONSTRUCTION BEGINS.
6.

LANDSCAPE CONTRACTOR SHALL REVIEW THE SITE FOR DEFICIENCIES IN SITE CONDITIONS WHICH MIGHT NEGATIVELY AFFECT PLANT ESTABLISHMENT, SURVIVAL OR WARRANTY. UNDESIRABLE SITE CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT PRIOR TO BEGINNING OF WORK.
7.

LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR ONGOING MAINTENANCE OF NEWLY INSTALLED MATERIALS UNTIL TIME OF FINAL ACCEPTANCE BY LANDSCAPE ARCHITECT. REPAIR OF ACTS OF VANDALISM OR DAMAGE WHICH MAY OCCUR PRIOR TO FINAL ACCEPTANCE SHALL BE THE RESPONSIBILITY OF THE LANDSCAPE CONTRACTOR.
8.

EXISTING TREES TO REMAIN, UPON DIRECTION OF LANDSCAPE ARCHITECT, SHALL BE FERTILIZED AND PRUNED TO REMOVE DEAD WOOD, DAMAGED AND RUBBING BRANCHES.
9.

LANDSCAPE CONTRACTOR SHALL PREPARE AND SUBMIT A WRITTEN REQUEST FOR THE SUBSTANTIAL COMPLETION INSPECTION OF LANDSCAPE AND SITE IMPROVEMENTS PRIOR TO SUBMITTING FINAL PAY REQUEST.

PLANTING NOTES

1.

NO PLANTS WILL BE INSTALLED UNTIL FINAL GRADING AND CONSTRUCTION HAS BEEN COMPLETED IN THE IMMEDIATE AREA
2.

SEE SUDAS FOR SEEDING AND SHRUB PLANTING DETAILS AND INSTRUCTIONS
3.

PROPOSED PLANT MATERIAL SHALL COMPLY WITH THE CURRENT EDITION OF THE AMERICAN STANDARD FOR NURSERY STOCK, ANSI Z60.1. UNLESS NOTED OTHERWISE, DECIDUOUS SHRUBS SHALL HAVE AT LEAST 5 CANES AT THE SPECIFIED HEIGHT. ORNAMENTAL TREES SHALL HAVE NO 'V' CROTCHES AND SHALL BEGIN BRANCHING NO LOWER THAN 3' FEET ABOVE THE ROOT BALL.
4.

PLANT SYMBOLS ON PLAN DRAWING TAKES PRECEDENCE OVER PLANT SCHEDULE IF DISCREPANCIES IN QUANTITIES EXIST. SPECIFICATIONS AND DETAILS TAKE PRECEDENCE OVER NOTES.
5.

TREES SHALL BE LOCATED AND STAKED AS SHOWN ON PLAN. LANDSCAPE ARCHITECT MUST APPROVE STAKING OF PLANT MATERIAL PRIOR TO DIGGING.
6.

NO PLANT MATERIAL SUBSTITUTIONS WILL BE ACCEPTED UNLESS APPROVAL IS GRANTED IN WRITING BY THE LANDSCAPE ARCHITECT TO THE LANDSCAPE CONTRACTOR.
7.

ADJUSTMENTS IN LOCATION OF PROPOSED PLANT MATERIALS MAY BE NEEDED IN FIELD. LANDSCAPE ARCHITECT MUST BE NOTIFIED PRIOR TO ADJUSTMENT OF PLANTS.
8.

PLANT MATERIALS TO BE INSTALLED PER SUDAS PLANTING DETAILS.
9.

WATER ALL PLANT MATERIAL WITHIN 2 HOURS OF PLANTING. APPLY ENOUGH WATER TO THOROUGHLY SATURATE ALL PLANTING SOIL.
10.

SHRUBS AND PERENNIALS SHALL BE PLANTED INTO EROSION CONTROL BLANKET, WHERE APPLICABLE, WITH AS MINIMAL DISTURBANCE TO BLANKET AS NEEDED FOR PLANTING.
11.

ALL TREE PLANTINGS TO RECEIVE 3' DIA. RING OF SHREDDED HARDWOOD MULCH (3" DEPTH). MULCH SHALL BE INCIDENTAL.
12.

ALL SHRUB BEDS TO RECEIVE 3" DEPTH HARDWOOD MULCH.
13.

LANDSCAPE CONTRACTOR SHALL WARRANTY NEW PLANT MATERIAL THROUGH TWO (2) CALENDAR YEARS FROM THE DATE OF FINAL ACCEPTANCE. NO PARTIAL ACCEPTANCE WILL BE CONSIDERED.

SEEDING NOTES

1.

ALL SEED SHALL BE SPREAD USING A TRILLION BROADCAST SEEDER OR OTHER APPROVED METHOD.
2.

SEEDED AREAS THAT ARE NOT TO RECEIVE EROSION CONTROL BLANKET SHALL BE MULCHED WITH BONDED FIBER MATRIX AFTER BROADCAST SPREADING PER SUDAS SPEC. 9040-2.16-B.2.
3.

MODIFICATIONS TO SEEDING AND PLANTING DATES SHALL BE APPROVED BY LANDSCAPE ARCHITECT, IN WRITING, PRIOR TO COMMENCING.
4.

ALL DISTURBED AREAS TO BE SEEDED PER PLANS. IF AREAS DISTURBED ARE NOT ON PLANS - VERIFY RESTORATION TREATMENT WITH PROJECT ENGINEER

NATIVE SEEDING MAINTENANCE & EVALUATION

YEAR 1 Maintenance after Spring or Early Summer Seeding:

- 1)

MOW ENTIRE AREA TO 6- TO 8-INCH HEIGHT EVERY 30 DAYS AFTER PLANTING UNTIL SEPTEMBER 30.
- 2)

SPOT SPRAY INVASIVE WEEDS (THISTLE, ETC.) PRIOR TO SEED DISBURSEMENT WITH GLYPHOSATE HERBICIDE.

YEAR 1 Maintenance after Fall or Dormant Seeding:

- 1)

MOW ENTIRE AREA THREE TIMES TO 6- TO 8-INCH HEIGHT; ONCE IN MAY, ONCE IN JUNE, AND ONCE IN JULY.
- 2)

SPOT SPRAY INVASIVE WEEDS (THISTLE, ETC.) PRIOR TO SEED DISBURSEMENT WITH GLYPHOSATE HERBICIDE.

YEAR 1 Site Evaluation:

- 1)

COVER CROP GROWING WITHIN 2 WEEKS OF PLANTING (EXCEPT DORMANT SEEDING).
- 2)

SEEDLINGS SPACED 1- TO 6-INCHES APART IN DRILL ROWS.
- 3)

NATIVE GRASS SEEDLINGS MAY ONLY BE 4- OT 6-INCHES IN HEIGHT.
- 4)

MOW AS NECESSARY WHEN THERE IS A FLUSH OF GROWTH FROM FOXTAIL, OR SIMILAR SPECIES.

YEAR 2 Maintenance:

- 1)

MOW ENTIRE AREA TO 6- TO 8-INCH HEIGHT ONE TIME BETWEEN JUNE 1 AND AUGUST 15, BEFORE WEED SEEDS SET.
- 2)

SPOT SPRAY INVASIVE WEEDS (THISTLE, ETC.) PRIOR TO SEED DISBURSEMENT WITH GLYPHOSATE HERBICIDE.

YEAR 2 Evaluation:

- 1)

COVER CROP WILL BE GONE UNLESS WINTER WHEAT WAS USED IN A FALL PLANTING.
- 2)

GRASSES ARE FORMING CLUMPS 1- TO 6-INCHES APART IN DRILL ROWS, BUT STILL SHORT.
- 3)

SOME WILDFLOWER SPECIES ARE BLOOMING (BLACK-EYED SUSAN, BERGAMOT, ETC.).
- 4)

MOW AS NECESSARY WHEN THERE IS A FLUSH OF GROWTH FROM FOXTAIL, OR SIMILAR SPECIES.

YEAR 3 Maintenance:

- 1)

MOW ENTIRE AREA TO 6- TO 8-INCH HEIGHT ONE TIME BETWEEN JUNE 1 AND AUGUST 15, BEFORE WEED SEEDS SET.
- 2)

SPOT SPRAY INVASIVE WEEDS (THISTLE, ETC.) PRIOR TO SEED DISBURSEMENT WITH GLYPHOSATE HERBICIDE.

YEAR 3 Evaluation:

- 1)

COVER CROP WILL BE GONE UNLESS WINTER WHEAT WAS USED IN A FALL PLANTING.
- 2)

GRASSES ARE FORMING CLUMPS 1- TO 6-INCHES APART IN DRILL ROWS, BUT STILL SHORT.
- 3)

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ecology Tele: 651.770.8448
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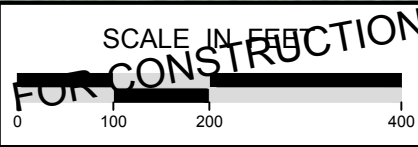
WASTEWATER TREATMENT PLANT WETLANDS STORM LAKE, BUENA VISTA COUNTY, IOWA	
STATE PROJECT NO. ---	CITY PROJECT NO. ---

GENERAL NOTES
SHEET 03 OF 46 SHEETS

Plot Date: 12/24/2019
Drawing Name: X:\clients_municipal\storm_lake_a\0018_wastewater_treatment_facility_pond\09_gms_projectname\dwg\1112-19_30_Plans\1112-19_Existing_Conditions.dwg
Xrefs: 1112_2019 XBase



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water ecology community

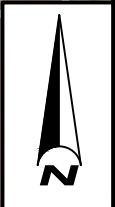
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WASTEWATER TREATMENT PLANT
WETLANDS
STORM LAKE, BUENA VISTA COUNTY,
IOWA

STATE PROJECT NO. --- CITY PROJECT NO. ---

EXISTING CONDITIONS - AREA 1
SHEET 04 OF 46 SHEETS



Plot Date: 12/24/2019
Drawing Name: X:\clients_municipal_wastewater_treatment_facility_pond09_gm_projectname\dwg\1112-19_30_Plans\1112-19_30_Existing_Conditions.dwg
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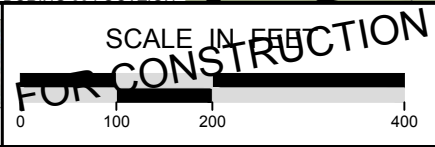
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Jump Right In!

WASTEWATER TREATMENT PLANT
WETLANDS
STORM LAKE, BUENA VISTA COUNTY,
IOWA

STATE PROJECT NO. ---
CITY PROJECT NO. ---

EXISTING CONDITIONS - AREA 2

SHEET 05 OF 46 SHEETS

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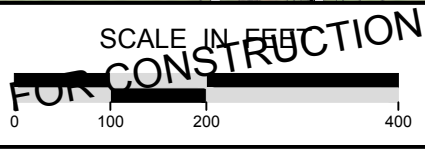
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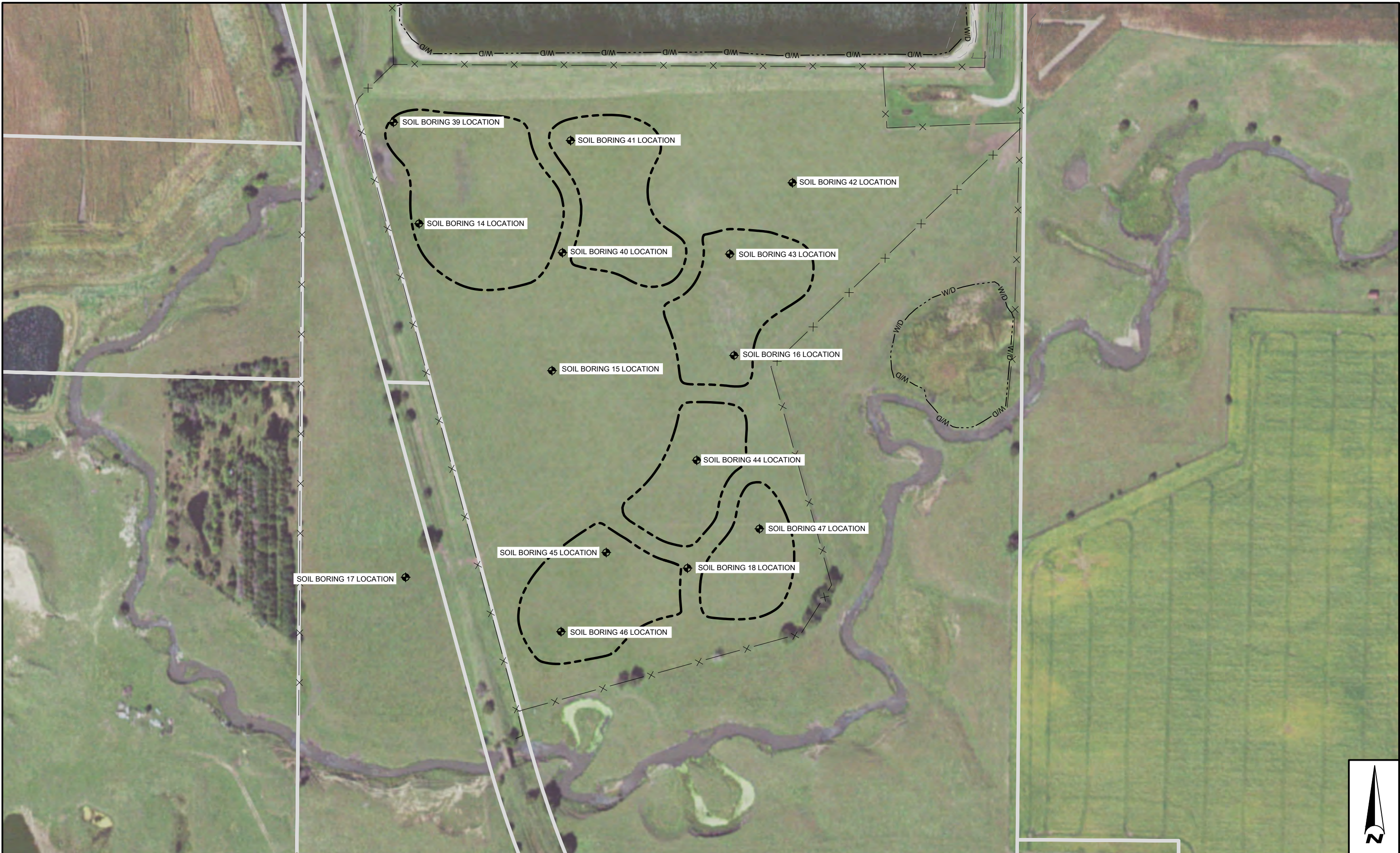
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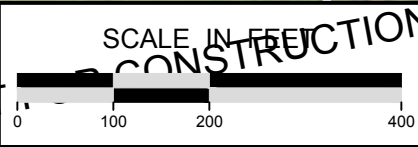
WASTEWATER TREATMENT PLANT
WETLANDS
STORM LAKE, BUENA VISTA COUNTY,
IOWA
STATE PROJECT NO. --- CITY PROJECT NO. ---

EXISTING CONDITIONS - AREA 3
SHEET 06 OF 46 SHEETS

Plot Date: 12/24/2019
Drawing name: X:\clients_municipal\1112_storm_lake_a\0018_wastewater_treatment_facility_pond\09_gms_projects\1112-19_30_Plans\1112-19_Soil_Boring_Locations.dwg
Xrefs: 1112_2019 X-Base



6			
5			
4	02/01/2019	BR	100% FINAL SUBMITAL
3	07/03/2018	BR	90% PRELIMINARY SUBMITTAL
2	01/05/2018	BR	60% PRELIMINARY SUBMITTAL
1	03/17/2017	BR	30% PRELIMINARY SUBMITTAL
NO	DATE	BY	REVISION



SUBMISSION DATE: 10/25/2017	
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EOR PROJECT NO. 01112-0019	

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SOIL BORING LOCATION MAP

SHEET 07 OF 46 SHEETS

Plot Date: 12/24/2019
Drawing Name: X:\clients_municipal\112_storm_lake_a\0018_wastewater_treatment_facility_pond\09_gms_projects\dwg\112-19_30_Plans\112-19_Soil_Boring_Locations.dwg
Xrefs: 112_2019_XBase

6			
5			
4	02/01/2019	BR	100% FINAL SUBMITAL
3	07/03/2018	BR	90% PRELIMINARY SUBMITTAL
2	01/05/2018	BR	60% PRELIMINARY SUBMITTAL
1	03/17/2017	BR	30% PRELIMINARY SUBMITTAL
NO	DATE	BY	REVISION



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FOR PROJECT NO.	01112-0019



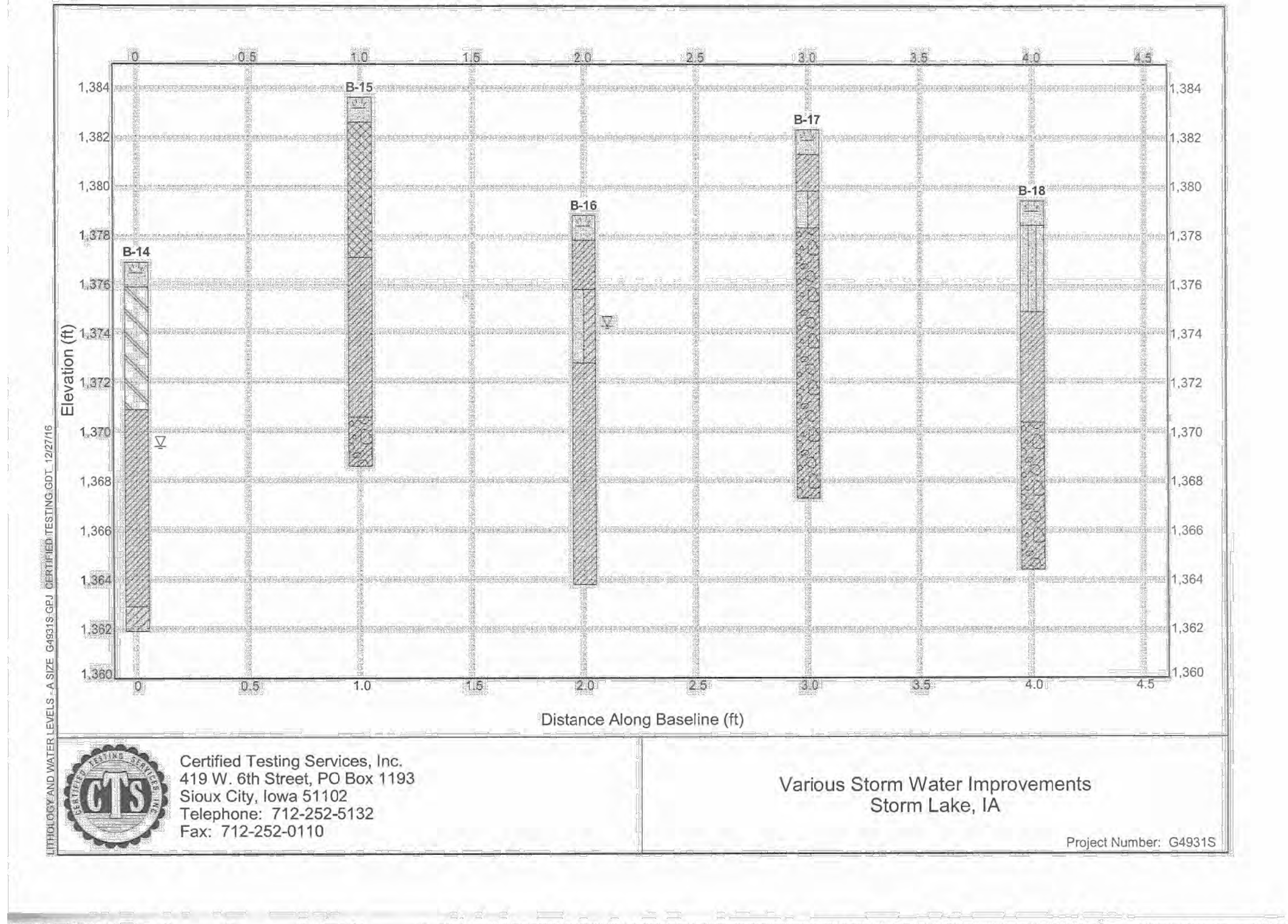
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ecology Tele: 651.770.8448
community www.eorinc.com



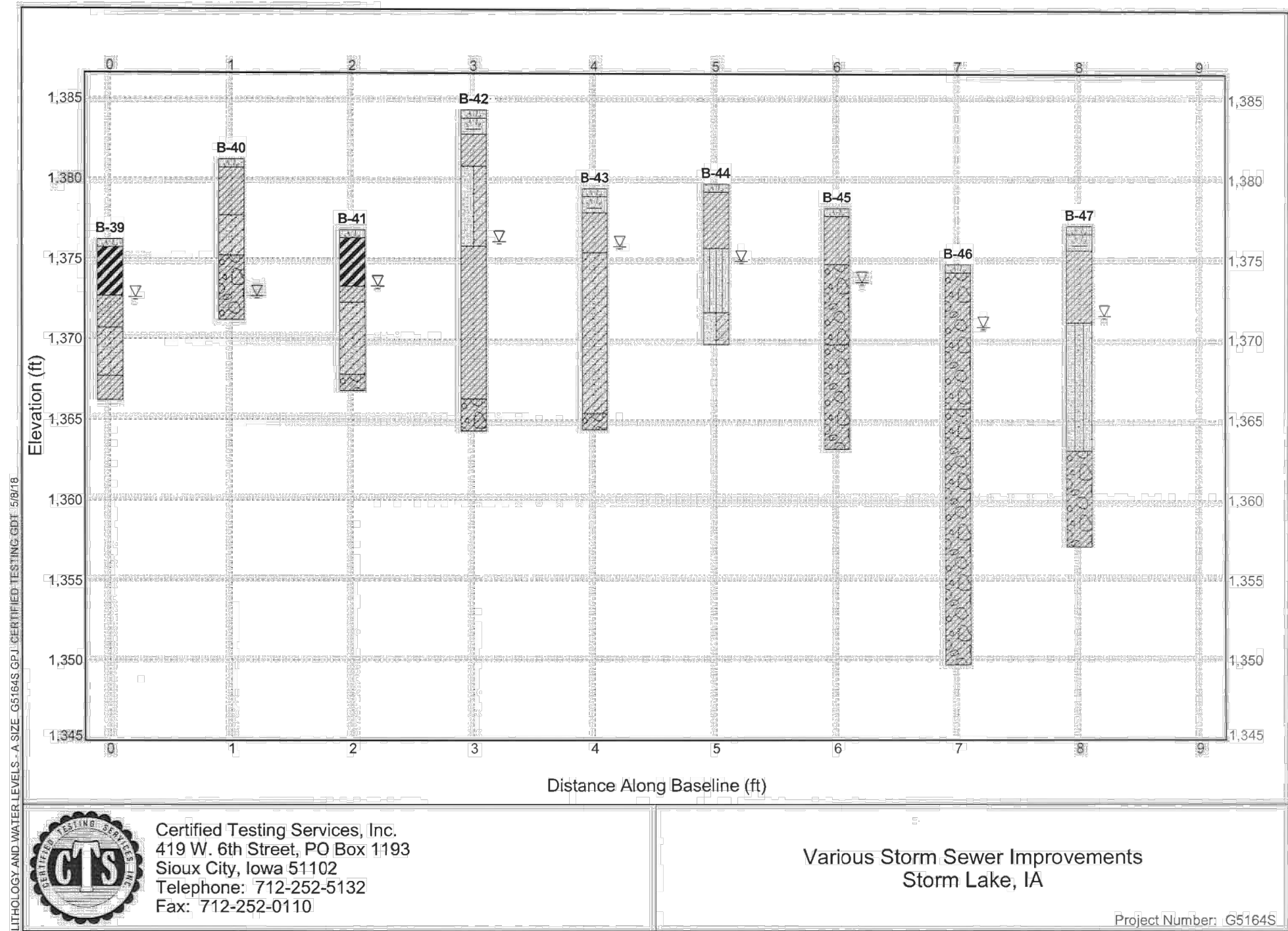
WASTEWATER TREATMENT PLANT
WETLANDS
STORM LAKE, BUENA VISTA COUNTY,
IOWA

STATE PROJECT NO. --- CITY PROJECT NO. ---

SOIL BORING DATA SHEET 1
SHEET 08 OF 46 SHEETS



Plot Date: 12/24/2019
Drawing Name: X:\clients_municipal\112_storm_lake_a\0019_wastewater_treatment_facility_pond\09_gms_projectname\dwg\112-19_30_Plans\112-19_Soil_Boring_Locations.dwg
Xrefs: 112_0019 X-Base



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5			
4	02/01/2019	BR	100% FINAL SUBMITAL
3	07/03/2018	BR	90% PRELIMINARY SUBMITTAL
2	01/05/2018	BR	60% PRELIMINARY SUBMITTAL
1	03/17/2017	BR	30% PRELIMINARY SUBMITTAL
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SOIL BORING DATA SHEET 2

SHEET 09 OF 46 SHEETS

Pld Date: 02/04/2019
Drawing name: X:\clients_municipal\1112_storm_lake_a\0018_wastewater_treatment_facility_pond\09_gms_projects\1112-19_30_Plans\1112-19_Soil_Boring_Locations.dwg
Xrefs: 1112_2019 XBase

SOIL CLASSIFICATION CHART

MAJOR DIVISIONS			SYMBOLS		TYPICAL DESCRIPTIONS
			GRAPH	LETTER	
COARSE GRAINED SOILS MORE THAN 50% OF MATERIAL IS LARGER THAN NO. 200 SIEVE SIZE	GRAVEL AND GRAVELLY SOILS	CLEAN GRAVELS (LITTLE OR NO FINES)		GW	WELL-GRADED GRAVELS, GRAVEL - SAND MIXTURES, LITTLE OR NO FINES
				GP	POORLY-GRADED GRAVELS, GRAVEL - SAND MIXTURES, LITTLE OR NO FINES
		GRAVELS WITH FINES (APPRECIABLE AMOUNT OF FINES)		GM	SILTY GRAVELS, GRAVEL - SAND - SILT MIXTURES
				GC	CLAYEY GRAVELS, GRAVEL - SAND - CLAY MIXTURES
	SAND AND SANDY SOILS	CLEAN SANDS (LITTLE OR NO FINES)		SW	WELL-GRADED SANDS, GRAVELLY SANDS, LITTLE OR NO FINES
				SP	POORLY-GRADED SANDS, GRAVELLY SAND, LITTLE OR NO FINES
		SANDS WITH FINES (APPRECIABLE AMOUNT OF FINES)		SM	SILTY SANDS, SAND - SILT MIXTURES
				SC	CLAYEY SANDS, SAND - CLAY MIXTURES
FINE GRAINED SOILS MORE THAN 50% OF MATERIAL IS SMALLER THAN NO. 200 SIEVE SIZE	SILTS AND CLAYS	LIQUID LIMIT LESS THAN 50		ML	INORGANIC SILTS AND VERY FINE SANDS, ROCK FLOUR, SILTY OR CLAYEY FINE SANDS OR CLAYEY SILTS WITH SLIGHT PLASTICITY
				CL	INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY, GRAVELLY CLAYS, SANDY CLAYS, SILTY CLAYS, LEAN CLAYS
				OL	ORGANIC SILTS AND ORGANIC SILTY CLAYS OF LOW PLASTICITY
	SILTS AND CLAYS	LIQUID LIMIT GREATER THAN 50		MH	INORGANIC SILTS, MICACEOUS OR DIATOMACEOUS FINE SAND OR SILTY SOILS
				CH	INORGANIC CLAYS OF HIGH PLASTICITY
				OH	ORGANIC CLAYS OF MEDIUM TO HIGH PLASTICITY, ORGANIC SILTS
			HIGHLY ORGANIC SOILS		

NOTE: DUAL SYMBOLS ARE USED TO INDICATE BORDERLINE SOIL CLASSIFICATIONS

6			
5			
4	02/01/2019	BR	100% FINAL SUBMITAL
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2	01/05/2018	BR	60% PRELIMINARY SUBMITTAL
1	03/17/2017	BR	30% PRELIMINARY SUBMITTAL
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WASTEWATER TREATMENT PLANT WETLANDS STORM LAKE, BUENA VISTA COUNTY, IOWA	
STATE PROJECT NO. ---	CITY PROJECT NO. ---

SOIL BORING DATA SHEET 3	
SHEET 10 OF 46 SHEETS	

Plot Date: 12/24/2019
Drawing Name: X:\clients_municipal\1112_storm_lake_a\0018_wastewater_treatment_facility_pond\09_gms_projects\1112-19_30_Plans\1112-19_Soil_Boring_Locations.dwg
Xrefs: 1112_0019 XBase



CONTRACTOR TO PROTECT AND MAINTAIN
CONTROL POINT/BENCH MARKS DURING
THE DURATION OF CONSTRUCTION

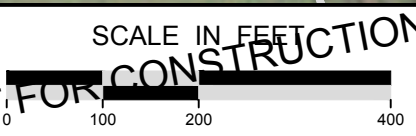
HORIZONTAL SURVEY CONTROL -
IOWA NORTH GRID COORDINATES

BENCHMARK - NAVD 88

BENCHMARK TABLE				
I.D	NORTHING	EASTING	ELEVATION	DESCRIPTION
CP 101	3683482.1070	4475138.1920	1372.57	WOODEN STAKE LOCATED SOUTH EAST CORNER OF PROJECT
CP 102	3683594.4570	4474334.7780	1387.11	WOODEN STAKE LOCATED WEST CENTRAL SIDE OF PROJECT
CP 103	3684272.8470	4475536.7310	1383.78	WOODEN STAKE LOCATED NORTH EAST CORNER OF PROJECT



6			
5			
4	02/01/2019	BR	100% FINAL SUBMITAL
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1	03/17/2017	BR	30% PRELIMINARY SUBMITTAL
NO	DATE	BY	REVISION



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WETLANDS
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STATE PROJECT NO. --- CITY PROJECT NO. ---

SURVEY CONTROL PLAN	
SHEET 11 OF 46 SHEETS	



LEGEND

RG RAIN GAUGE

SWPPP SWPPP LOCATION

PROJECT SIGN LOCATION AND
PROJECT ENTRANCE

Plot Date: 12/24/2019
Drawing name: X:\clients_municipal\1112_storm_lake_a\0019_wastewater_treatment_facility_pond\09_gms_projects\dwg\1112-19_30_Plans\1112-19_Grading and Drainage.dwg
Xrefs: 1112_0019-XBase2; 1112_0019-F-Grading and Drainage

6			
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4	02/01/2019	BR	100% FINAL SUBMITAL
3	07/03/2018	BR	90% PRELIMINARY SUBMITTAL
2	01/05/2018	BR	60% PRELIMINARY SUBMITTAL
1	03/17/2017	BR	30% PRELIMINARY SUBMITTAL
NO	DATE	BY	REVISION



SCALE IN FEET

0 50 100 200

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STATE PROJECT NO. --- CITY PROJECT NO. ---

STORM WATER POLLUTION PREVENTION - AREA 1

SHEET 12 OF 46 SHEETS

Plot Date: 12/24/2019
Drawing Name: X:\clients_municipal\1112_storm_lake_wastewater_treatment_facility_pond\09_gms_projects\dwg\1112-19_30_Plans\1112-19_30_Grading and Drainage.dwg
Xrefs: 1112_0019 XBase2; 1112_0019-F-Grading and Drainage



LEGEND

PT

PORTABLE TOILET

WASH

CONCRETE WASHOUT STATION

FUEL

FUELING STATION

6			
5			
4	02/01/2019	BR	100% FINAL SUBMITAL
3	07/03/2018	BR	90% PRELIMINARY SUBMITTAL
2	01/05/2018	BR	60% PRELIMINARY SUBMITTAL
1	03/17/2017	BR	30% PRELIMINARY SUBMITTAL
NO	DATE	BY	REVISION

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SCALE IN FEET

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0

100

200

400

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Storm Lake

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STORM WATER POLLUTION PREVENTION - AREA 2

SHEET 13 OF 46 SHEETS

Plot Date: 12/24/2019
Drawing Name: X:\clients_municipal\112_storm_lake_a\0018_wastewater_treatment_facility_pond\09_gms_projects\dwg\1112-19_30_Plans\1112-19_Erosion_Sediment_Control.dwg
Xrefs: 1112_0019-XBase2, 1112_0019-P-Erosion and Sediment Control, 1112_0019-P-Storm Sewer2, 1112_0019-P-Grading and Drainage



6			
5			
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3	07/03/2018	BR	90% PRELIMINARY SUBMITTAL
2	01/05/2018	BR	60% PRELIMINARY SUBMITTAL
1	03/17/2017	BR	30% PRELIMINARY SUBMITTAL
NO	DATE	BY	REVISION



SCALE IN FEET
100 200 400
NOT FOR CONSTRUCTION

SUBMISSION DATE: 10/25/2017
DESIGN BY: DRL
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IOWA
STATE PROJECT NO. --- CITY PROJECT NO. ---

EROSION AND SEDIMENT CONTROL PLAN - AREA 2
SHEET 15 OF 46 SHEETS

Plot Date: 12/24/2019
Drawing Name: X:\clients_municipal\1112_storm_lake_a\0018_wastewater_treatment_facility_pond\09_gms_projects\dwg\1112-19_30_Plans\1112-19_Erosion_Sediment_Control.dwg
Xrefs: 1112_0019-XBase2, 1112_0019-P-Erosion and Sediment Control2, 1112_0019-P-Storm_Sewer2, 1112_0019-P-Grading and Drainage



6			
5			
4	02/01/2019	BR	100% FINAL SUBMITAL
3	07/03/2018	BR	90% PRELIMINARY SUBMITTAL
2	01/05/2018	BR	60% PRELIMINARY SUBMITTAL
1	03/17/2017	BR	30% PRELIMINARY SUBMITTAL
NO	DATE	BY	REVISION



SCALE IN FEET
100 200 400
NOT FOR CONSTRUCTION

SUBMISSION DATE:
10/25/2017
DESIGN BY: DRL
DRAWN BY: BR
EOR PROJECT NO.: 01112-0019

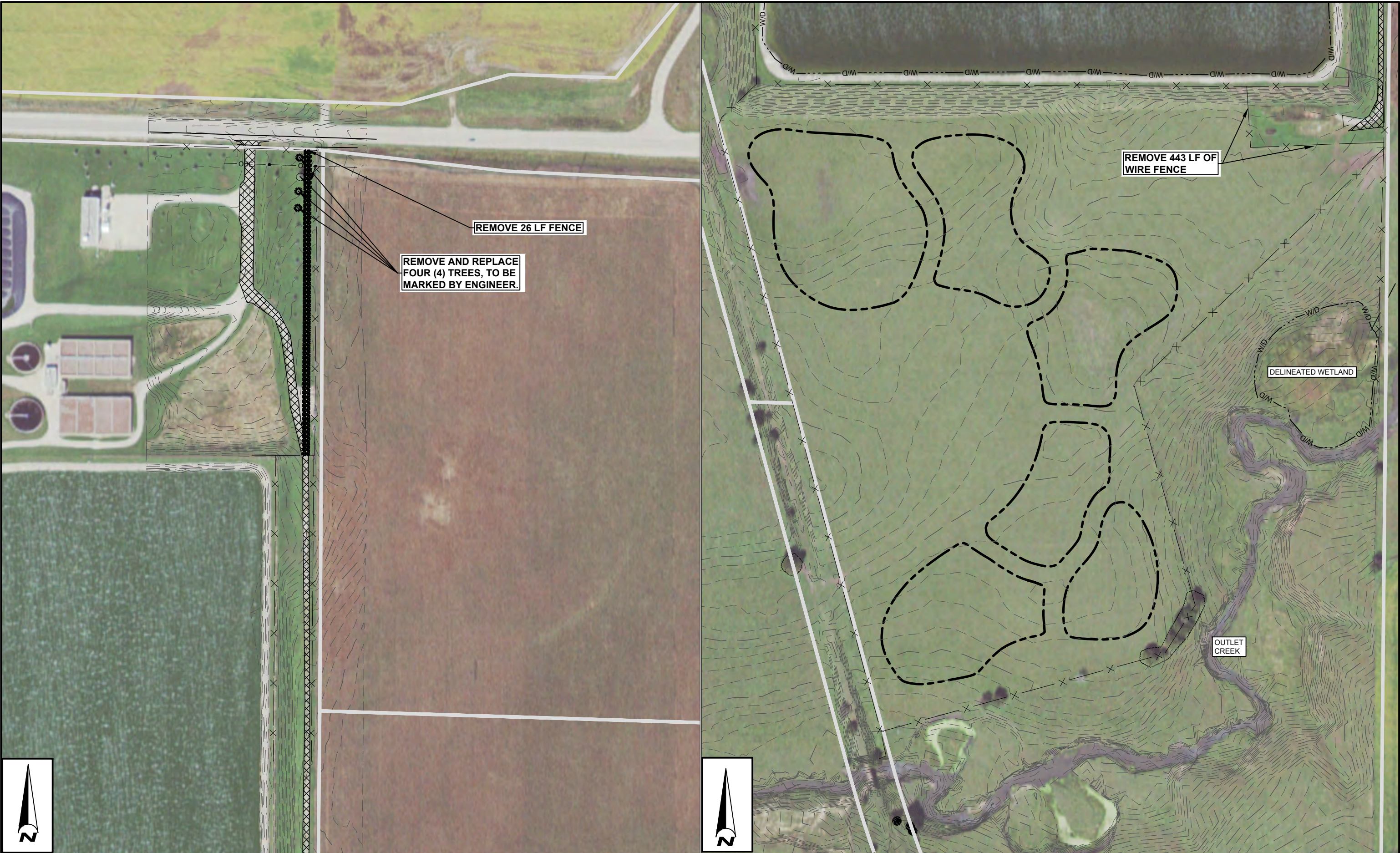
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Oakdale, MN 55128
w a t e r e c o l o g y T e l e : 6 5 1 . 7 7 0 . 8 4 4 8
c o m m u n i t y w w w . e o r i n c . c o m



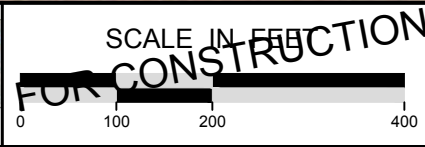
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WETLANDS
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IOWA
STATE PROJECT NO. --- CITY PROJECT NO. ---

EROSION AND SEDIMENT CONTROL PLAN - AREA 3
SHEET 16 OF 46 SHEETS

Plot Date: 12/24/2019
Drawing name: X:\clients_municipal\1112_storm_lake_a\0018_wastewater_treatment_facility_pond\09_gms_projects\1112-19_30_Plans\1112-19_Extending_Conditions.dwg
Xrefs: 1112_0019 X-Base



6			
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3	07/03/2018	BR	90% PRELIMINARY SUBMITTAL
2	01/05/2018	BR	60% PRELIMINARY SUBMITTAL
1	03/17/2017	BR	30% PRELIMINARY SUBMITTAL
NO	DATE	BY	REVISION



SUBMISSION DATE: 10/25/2017	
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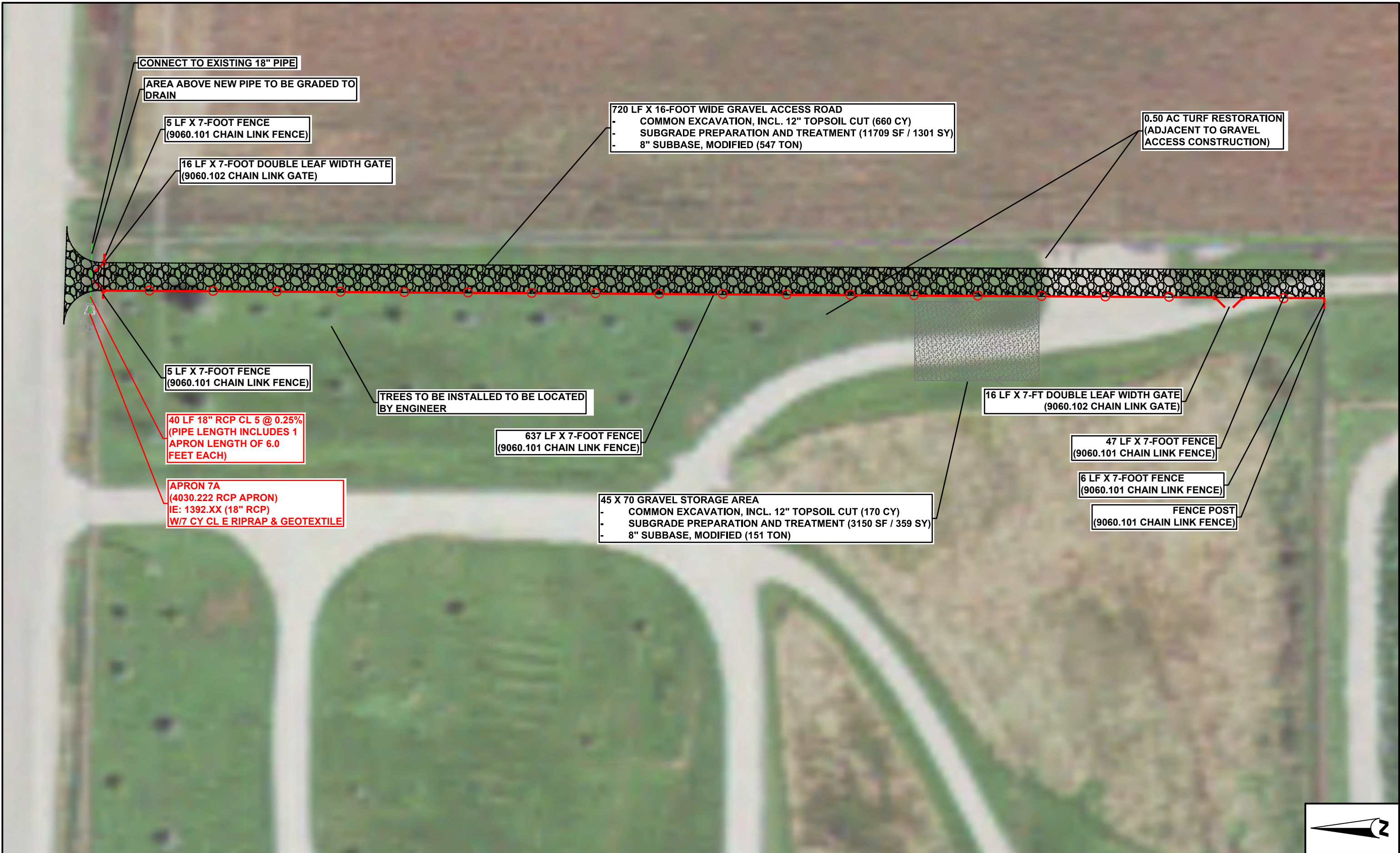
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STATE PROJECT NO. ---	CITY PROJECT NO. ---

DEMOLITION AND REMOVALS PLAN
SHEET 17 OF 46 SHEETS

Plot Date: 12/24/2019
Drawing Name: X:\clients_municipal\1112_storm_lake_a\0018_wastewater_treatment_facility_pond\09_gms_projects\dwg\1112-19_30_Plans\1112-19_Grading and Drainage.dwg
Xrefs: 1112_2019_XBase2_1112_0019-F-Grading and Drainage



6			
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4	02/01/2019	BR	100% FINAL SUBMITAL
3	07/03/2018	BR	90% PRELIMINARY SUBMITTAL
2	01/05/2018	BR	60% PRELIMINARY SUBMITTAL
1	03/17/2017	BR	30% PRELIMINARY SUBMITTAL
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SITE ENTRANCE CONSTRUCTION PLAN
SHEET 18 OF 46 SHEETS

Plot Date: 12/24/2019
Drawing Name: X:\clients_municipal\1112_storm_lake_a\0018_wastewater_treatment_facility_pond\09_gms_projects\dwg\1112-19_30_Plans\1112-19_Grading and Drainage.dwg
Xrefs: 1112_0019 XBase2; 1112_0019 F-Grading and Drainage



6			
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4	02/01/2019	BR	100% FINAL SUBMITAL
3	07/03/2018	BR	90% PRELIMINARY SUBMITTAL
2	01/05/2018	BR	60% PRELIMINARY SUBMITTAL
1	03/17/2017	BR	30% PRELIMINARY SUBMITTAL
NO	DATE	BY	REVISION



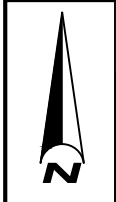
SUBMISSION DATE: 10/25/2017	
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GRADING AND DRAINAGE PLAN
SHEET 19 OF 46 SHEETS



*ALL SLOPES ARE TO BE 5:1
UNLESS NOTED OTHERWISE

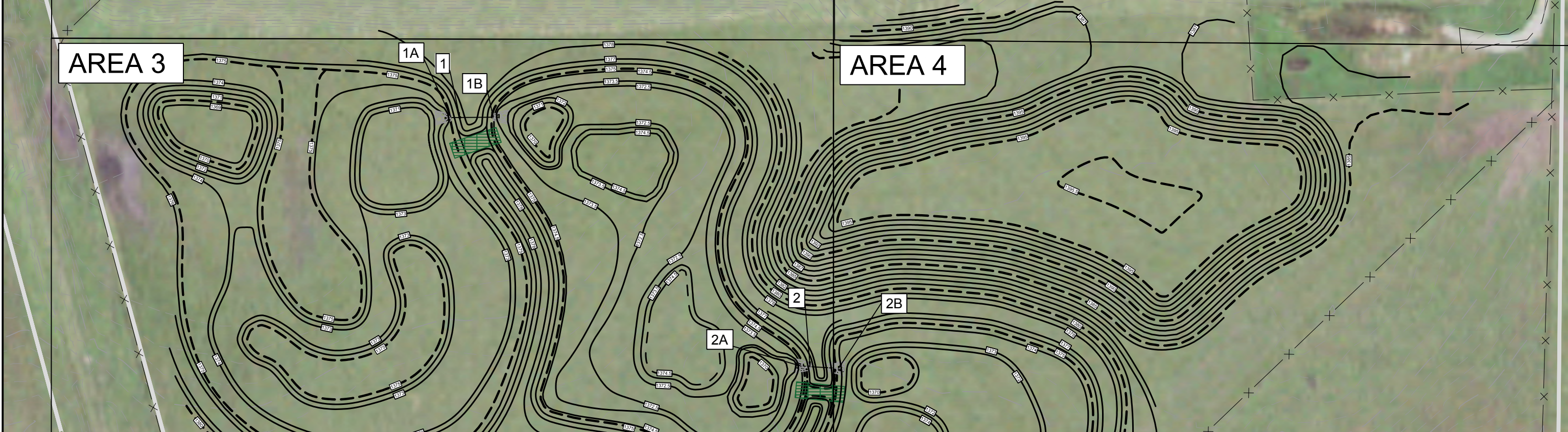
AREA 1

AREA 2

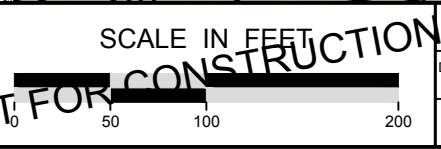
AREA 3

AREA 4

Plot Date: 12/24/2019
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Xrefs: 1112_2019 XBase2, 1112_0019-F-Grading and Drainage



6			
5			
4	02/01/2019	BR	100% FINAL SUBMITAL
3	07/03/2018	BR	90% PRELIMINARY SUBMITTAL
2	01/05/2018	BR	60% PRELIMINARY SUBMITTAL
1	03/17/2017	BR	30% PRELIMINARY SUBMITTAL
NO	DATE	BY	REVISION



SUBMISSION DATE: 10/25/2017	
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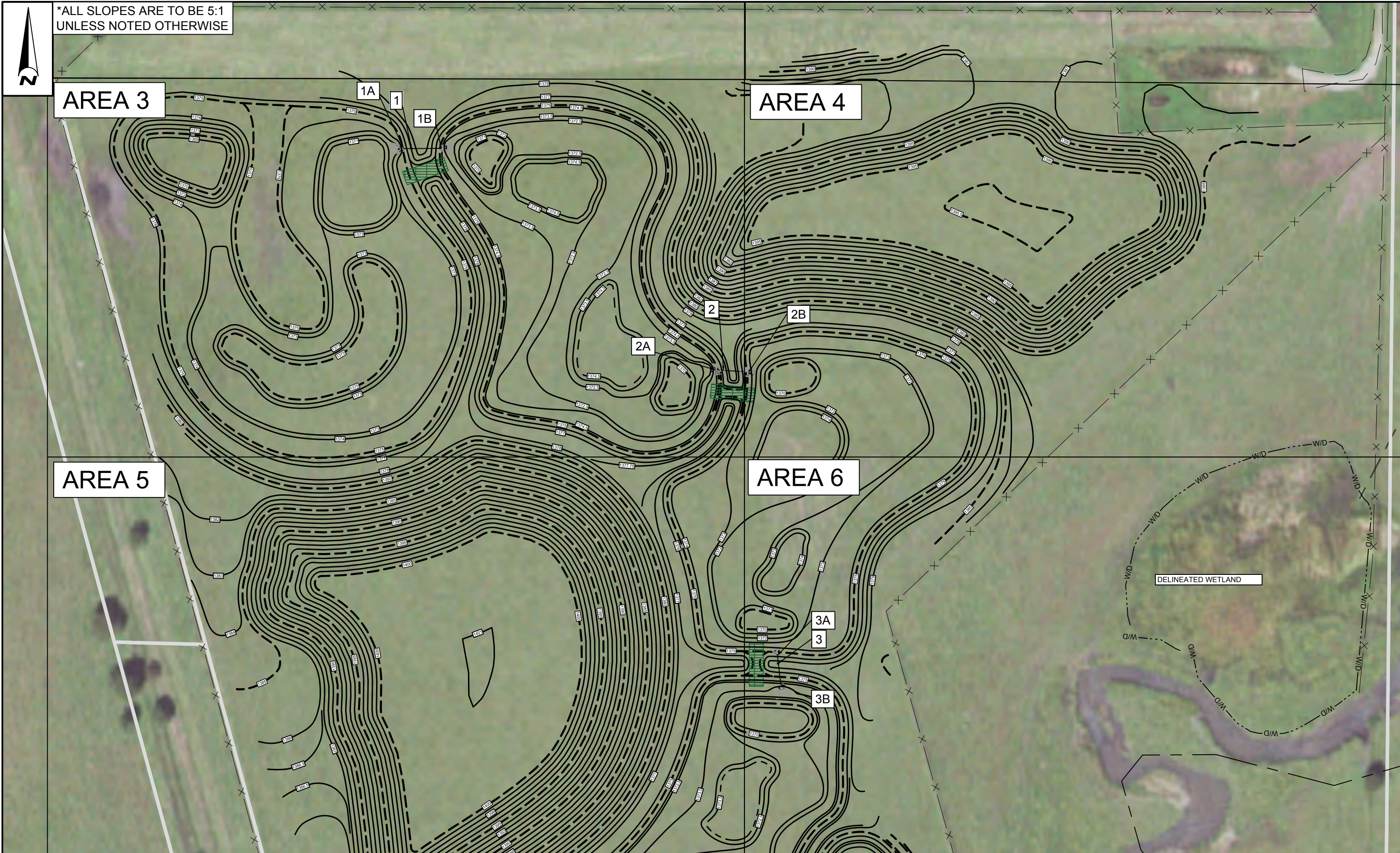


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WETLANDS
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IOWA

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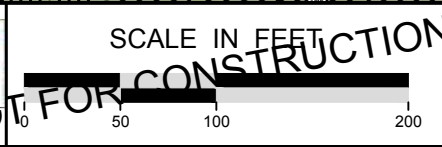
GRADING AND DRAINAGE PLAN - OVERVIEW 1

SHEET 20 OF 46 SHEETS



Plot Date: 10/24/2019
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Xrefs: 1112_0019-XBase2, 1112_0019-F-Grading and Drainage

6			
5			
4	02/01/2019	BR	100% FINAL SUBMITAL
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2	01/05/2018	BR	60% PRELIMINARY SUBMITTAL
1	03/17/2017	BR	30% PRELIMINARY SUBMITTAL
NO	DATE	BY	REVISION



SUBMISSION DATE: 10/25/2017	
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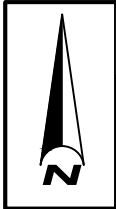


WASTEWATER TREATMENT PLANT
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GRADING AND DRAINAGE PLAN - OVERVIEW 2

SHEET 21 OF 46 SHEETS



*ALL SLOPES ARE TO BE 5:1
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AREA 5

AREA 6

AREA 7

AREA 8

DELINEATED WETLAND

OUTLET
CREEK

Plot Date: 12/24/2019
Drawing name: X:\clients_municipal\1112_storm_lake_a\0018_wastewater_treatment_facility_pond\09_gms_projects\dwg\1112-19_30_Plans\1112-19_Grading and Drainage.dwg
Xrefs: 1112_2019 XBase2; 1112_0019-F-Grading and Drainage

6			
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4	02/01/2019	BR	100% FINAL SUBMITAL
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2	01/05/2018	BR	60% PRELIMINARY SUBMITTAL
1	03/17/2017	BR	30% PRELIMINARY SUBMITTAL
NO	DATE	BY	REVISION



SCALE IN FEET
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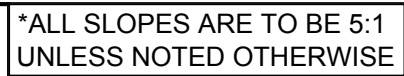
SUBMISSION DATE: 10/25/2017	
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WASTEWATER TREATMENT PLANT
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GRADING AND DRAINAGE PLAN - OVERVIEW 3
SHEET 22 OF 46 SHEETS



*ALL SLOPES ARE TO BE 5:1
UNLESS NOTED OTHERWISE

AREA 1

AREA 2

AREA 1

AREA 3

1A

1

FOREBAY
W.S. ELEV. = 1374.50
DEPTH = 4.50'

AREA 3

AREA 4

6			
5			
4	02/01/2019	BR	100% FINAL SUBMITTAL
3	07/03/2018	BR	90% PRELIMINARY SUBMITTAL
2	01/05/2018	BR	60% PRELIMINARY SUBMITTAL
1	03/17/2017	BR	30% PRELIMINARY SUBMITTAL
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GRADING AND DRAINAGE PLAN - AREA 1

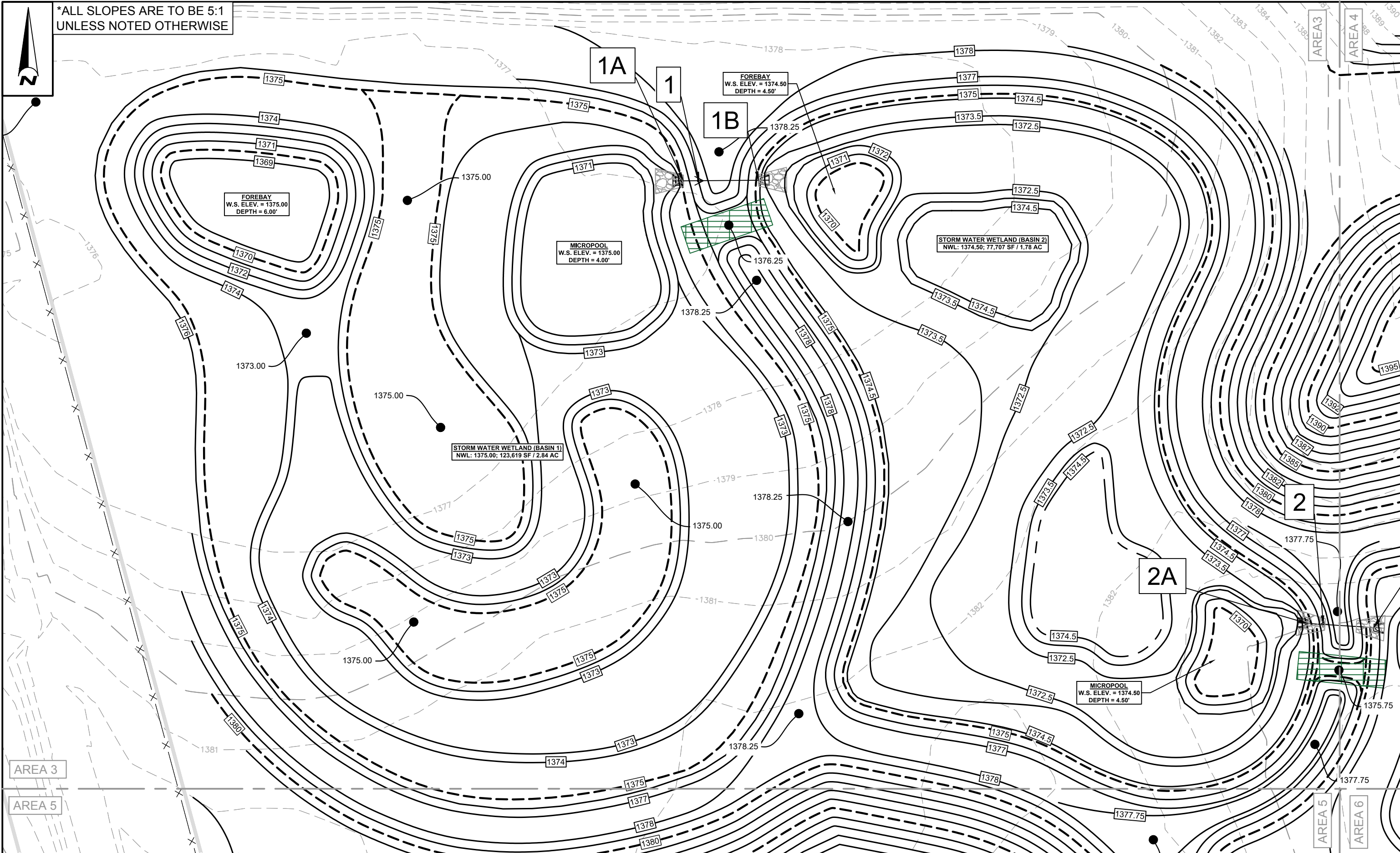
SHEET 23 OF 46 SHEETS

Tot Date: 02/04/2019
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Proj: 1112_0019 X-Base, 1112_0019 P-Grading and Drainage



GRADING AND DRAINAGE PLAN - AREA 2

SHEET 24 OF 46 SHEETS



Plot Date: 12/24/2019
Drawing Name: X:\clients_municipal\112_storm_lake_a\0018_wastewater_treatment_facility_pond\09_gms_projects\dwg\112-19_30_Plans\112-19_Grading and Drainage.dwg
Xrefs: 1112_0019 XBase2; 1112_0019 F-Grading and Drainage

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3	07/03/2018	BR	90% PRELIMINARY SUBMITTAL
2	01/05/2018	BR	60% PRELIMINARY SUBMITTAL
1	03/17/2017	BR	30% PRELIMINARY SUBMITTAL
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GRADING AND DRAINAGE PLAN - AREA 3

SHEET 25 OF 46 SHEETS



*ALL SLOPES ARE TO BE 5:1
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Plot Date: 12/24/2019
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Xrefs: 1112_0019-XArea2; 1112_0019-F-Grading and Drainage

NO	DATE	BY	REVISION
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2	01/05/2018	BR	60% PRELIMINARY SUBMITTAL
1	03/17/2017	BR	30% PRELIMINARY SUBMITTAL



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0 25 50 100

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GRADING AND DRAINAGE PLAN - AREA 4
SHEET 26 OF 46 SHEETS



*ALL SLOPES ARE TO BE 5:1
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6			
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3	07/03/2018	BR	90% PRELIMINARY SUBMITTAL
2	01/05/2018	BR	60% PRELIMINARY SUBMITTAL
1	03/17/2017	BR	30% PRELIMINARY SUBMITTAL
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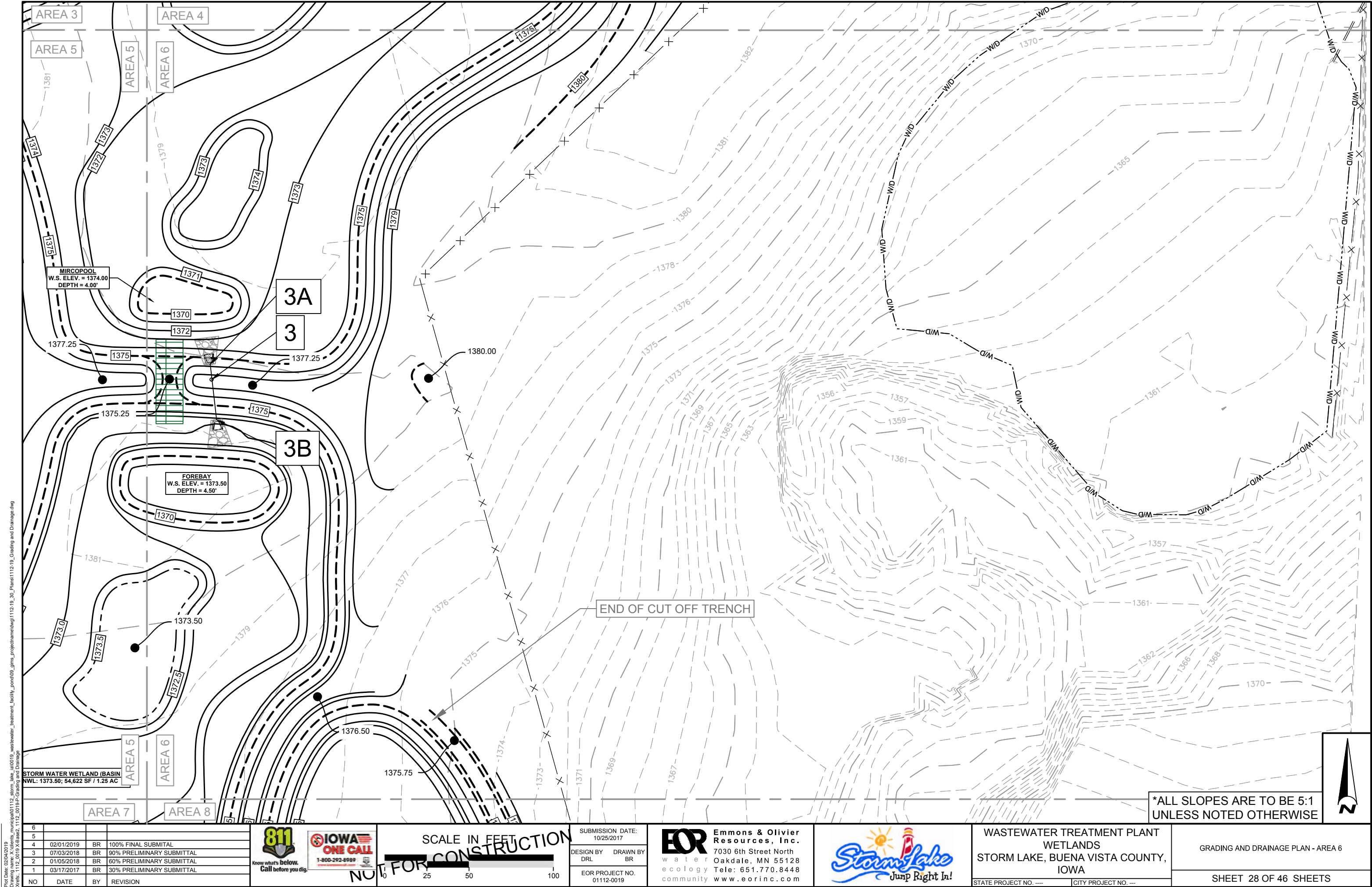
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GRADING AND DRAINAGE PLAN - AREA 5

SHEET 27 OF 46 SHEETS



Plot Date: 12/24/2019
Drawing Name: X:\clients_municipal\112_storm_lake_a\0018_wastewater_treatment_facility_pond\09_gms_projects\dwg\112-19_30_Plans\112-19_Grading and Drainage.dwg
Xrefs: 1112_0019_XBase2, 1112_0019-F-Grading and Drainage

NO	DATE	BY	REVISION
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5			
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3	07/03/2018	BR	90% PRELIMINARY SUBMITTAL
2	01/05/2018	BR	60% PRELIMINARY SUBMITTAL
1	03/17/2017	BR	30% PRELIMINARY SUBMITTAL



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GRADING AND DRAINAGE PLAN - AREA 6

SHEET 28 OF 46 SHEETS

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*ALL SLOPES ARE TO BE 5:1
UNLESS NOTED OTHERWISE



Plot Date: 12/24/2019
Drawing Name: X:\clients_municipal\112_storm_lake_a\0018_wastewater_treatment_facility_pond\09_gms_projects\dwg\112-19_30_Plans\112-19_Grading and Drainage.dwg
Xrefs: 1112_0019_XBase2; 1112_0019-F-Grading and Drainage

6			
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4	02/01/2019	BR	100% FINAL SUBMITAL
3	07/03/2018	BR	90% PRELIMINARY SUBMITTAL
2	01/05/2018	BR	60% PRELIMINARY SUBMITTAL
1	03/17/2017	BR	30% PRELIMINARY SUBMITTAL
NO	DATE	BY	REVISION



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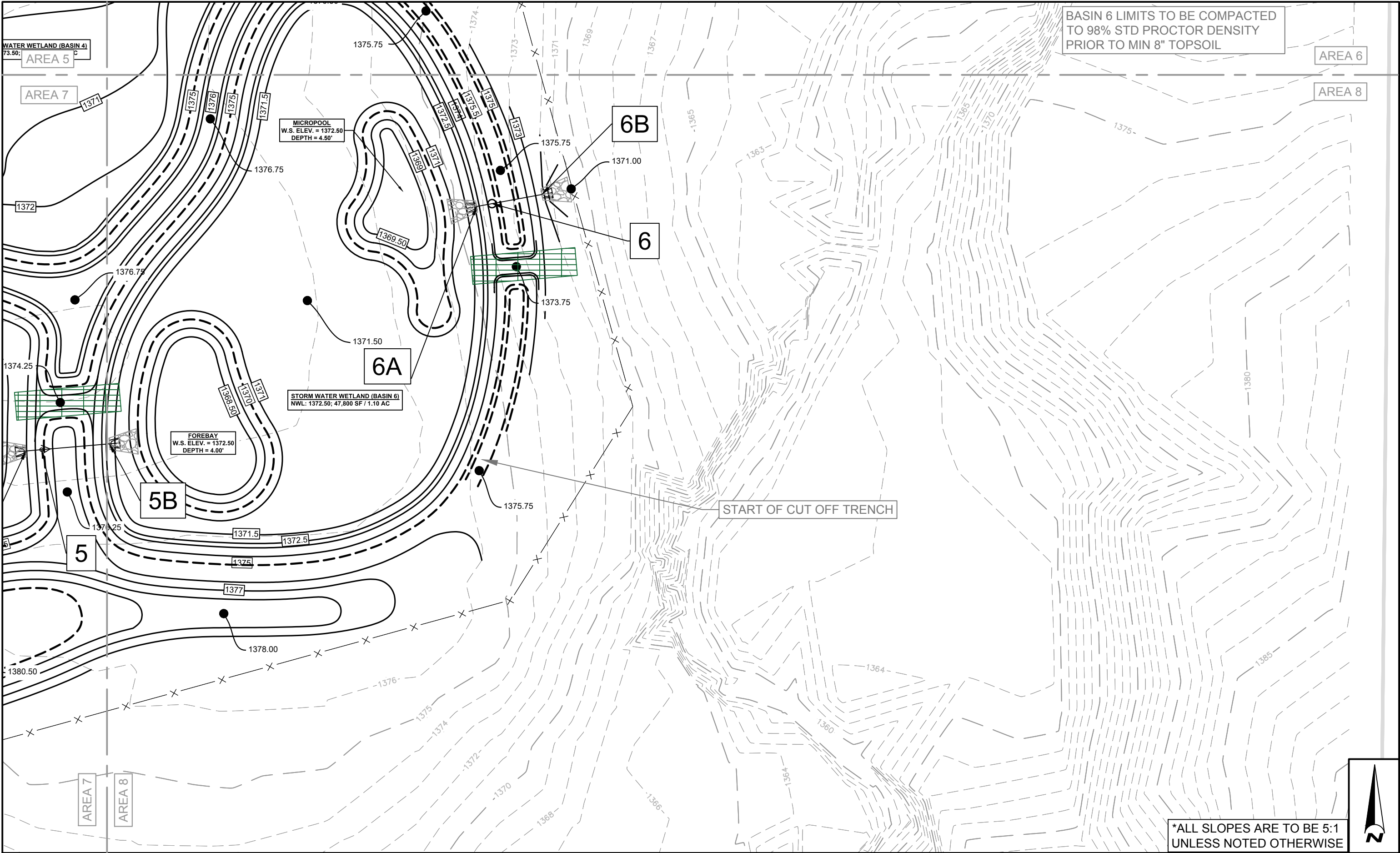
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GRADING AND DRAINAGE PLAN - AREA 7
SHEET 29 OF 46 SHEETS



Plot Date: 12/24/2019
Drawing Name: X:\clients_municipal\112_storm_lake_a\0018_wastewater_treatment_facility_pond\09_gms_projects\dwg\112-19_30_Plans\112-19_Grading and Drainage.dwg
Xrefs: 1112_0019 XBase2; 1112_0019 F-Grading and Drainage

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3	07/03/2018	BR	90% PRELIMINARY SUBMITTAL
2	01/05/2018	BR	60% PRELIMINARY SUBMITTAL
1	03/17/2017	BR	30% PRELIMINARY SUBMITTAL
NO	DATE	BY	REVISION



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DESIGN BY DRL	DRAWN BY BR
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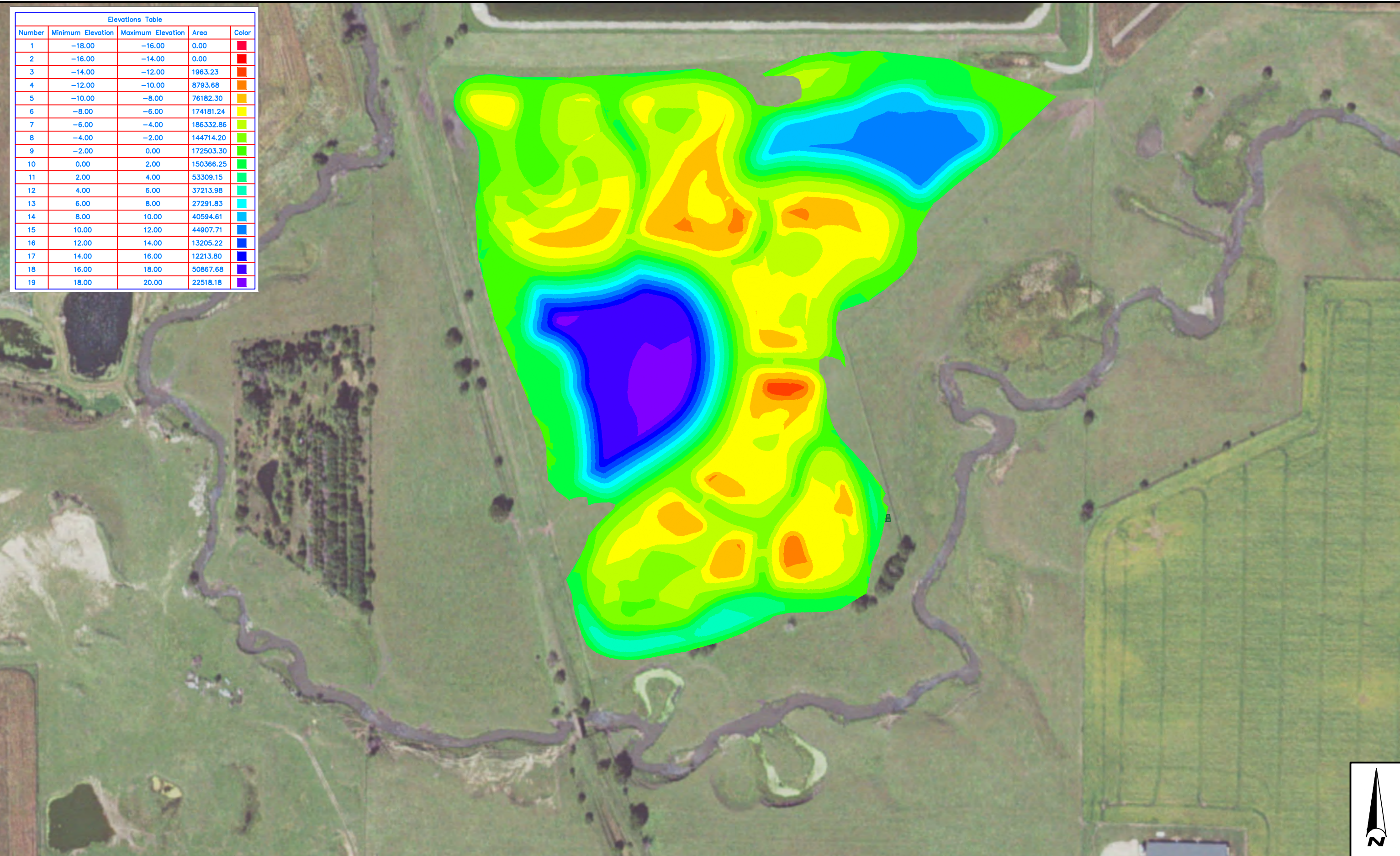
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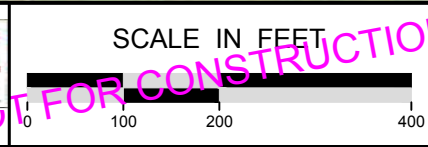
GRADING AND DRAINAGE PLAN - AREA 8
SHEET 30 OF 46 SHEETS

Elevations Table				
Number	Minimum Elevation	Maximum Elevation	Area	Color
1	-18.00	-16.00	0.00	Red
2	-16.00	-14.00	0.00	Red
3	-14.00	-12.00	1963.23	Orange
4	-12.00	-10.00	8793.68	Orange
5	-10.00	-8.00	76182.30	Yellow
6	-8.00	-6.00	174181.24	Yellow
7	-6.00	-4.00	186332.86	Light Green
8	-4.00	-2.00	144714.20	Light Green
9	-2.00	0.00	172503.30	Light Green
10	0.00	2.00	150366.25	Light Green
11	2.00	4.00	53309.15	Light Green
12	4.00	6.00	37213.98	Light Green
13	6.00	8.00	27291.83	Light Green
14	8.00	10.00	40594.61	Light Green
15	10.00	12.00	44907.71	Light Green
16	12.00	14.00	13205.22	Light Green
17	14.00	16.00	12213.80	Light Green
18	16.00	18.00	50867.68	Light Green
19	18.00	20.00	22518.18	Light Green



Plot Date: 10/24/2019
Drawing Name: X:\clients_municipal\1112_swm_lake_a\1018_wastewater_treatment_facility_pond\09_gms_projects\dwg\1112-19_30_Plans\1112-19_Grading and Drainage.dwg
Xrefs: 1112_2019 XBase2_1112_0019-F-Grading and Drainage

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3	07/03/2018	BR	90% PRELIMINARY SUBMITTAL
2	01/05/2018	BR	60% PRELIMINARY SUBMITTAL
1	03/17/2017	BR	30% PRELIMINARY SUBMITTAL
NO	DATE	BY	REVISION



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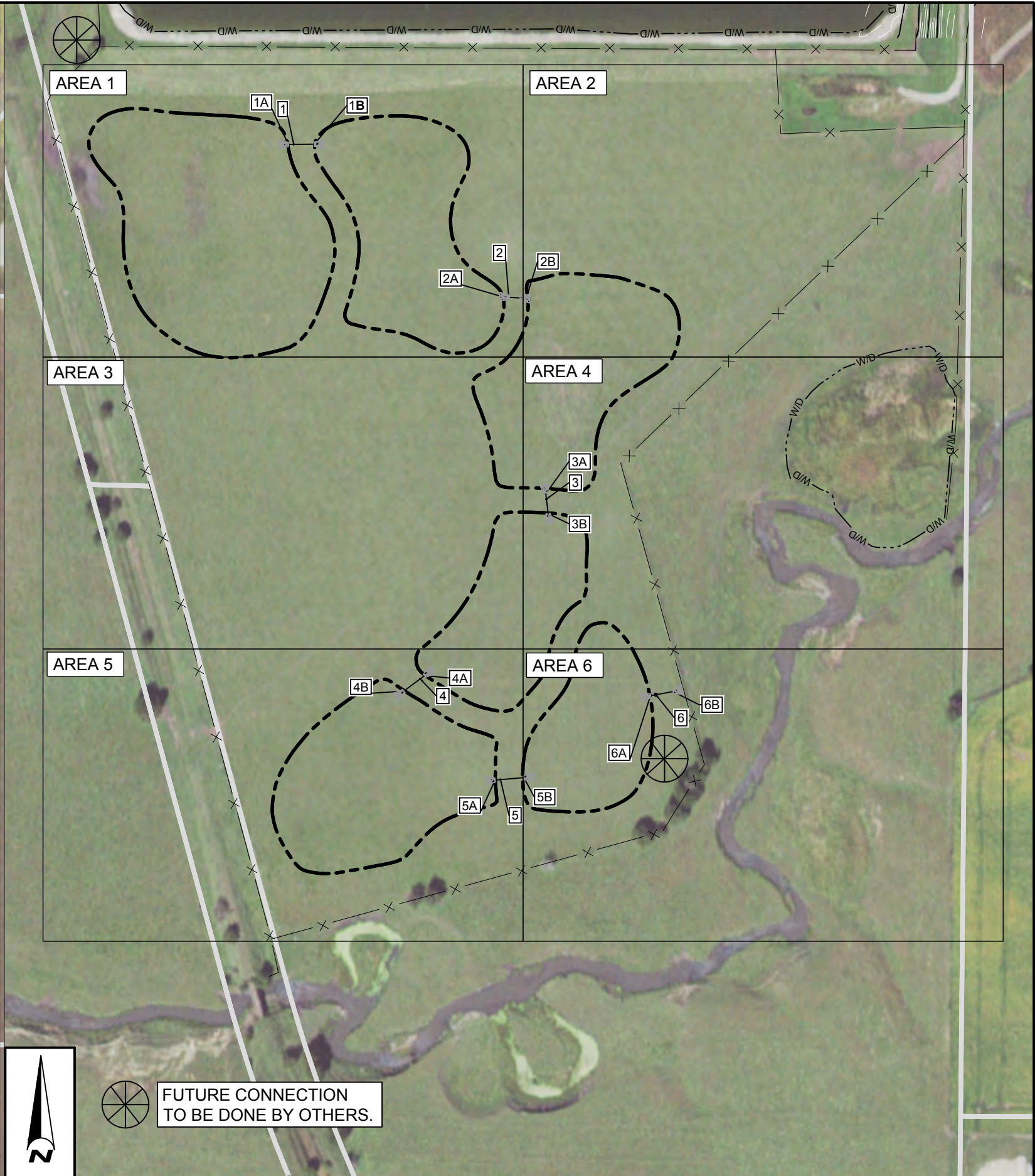
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EARTHWORK CUT AND FILL DIAGRAM
SHEET 31 OF 46 SHEETS

Plot Date: 12/24/2019
Drawing Name: X:\clients_municipal\1112_storm_lake_a\0019_wastewater_treatment_facility_pond\09_gms_projects\1112-19_30_Plans\1112-19_Storm_Sewer.dwg
Xrefs: 1112_0019 XBase2; 1112_0019 F-Grading and Drainage



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3	07/03/2018	BR	90% PRELIMINARY SUBMITTAL
2	01/05/2018	BR	60% PRELIMINARY SUBMITTAL
1	03/17/2017	BR	30% PRELIMINARY SUBMITTAL
NO	DATE	BY	REVISION



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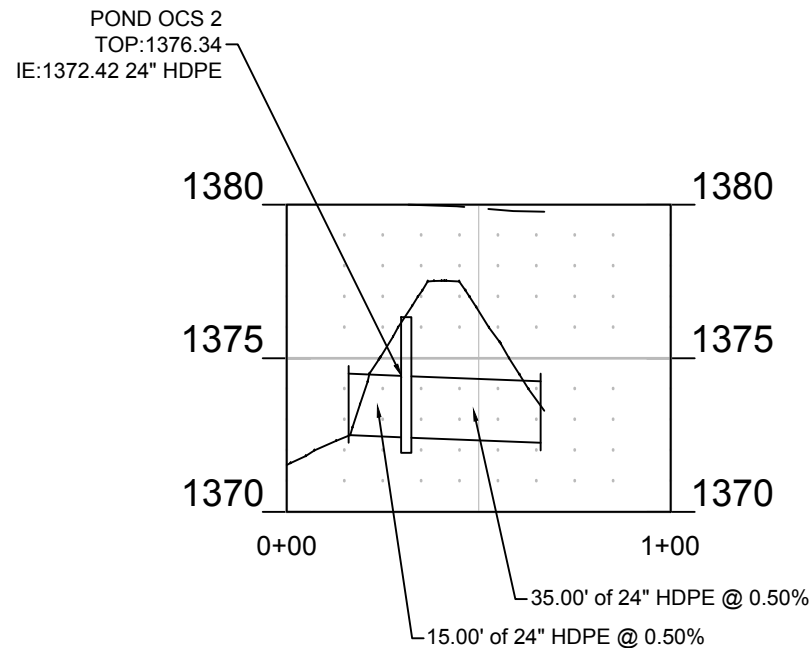
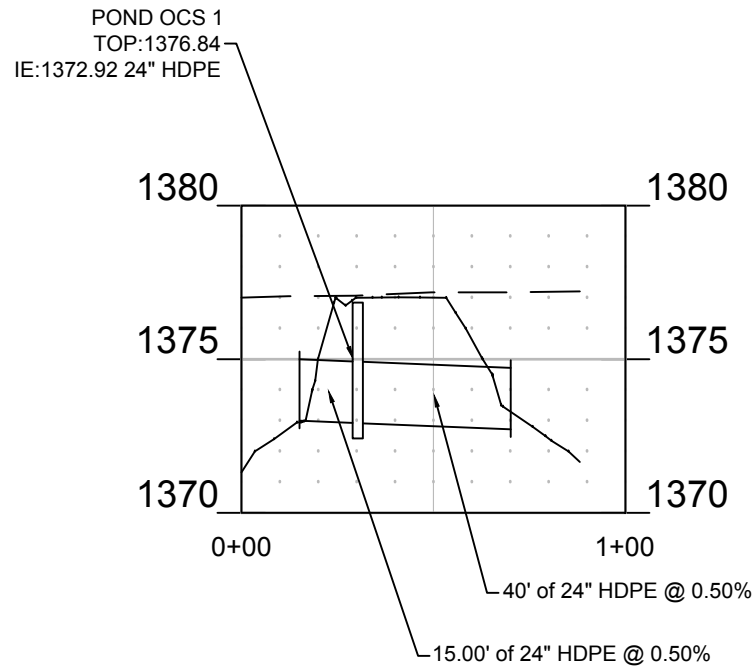
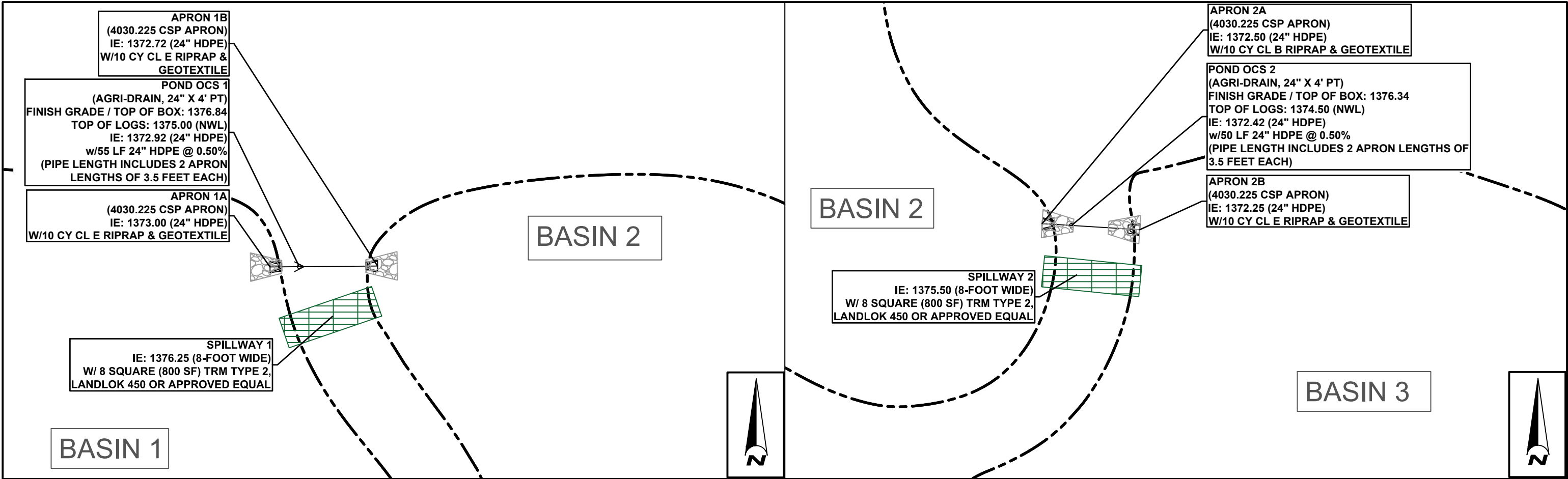
SUBMISSION DATE:
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DESIGN BY: DRL
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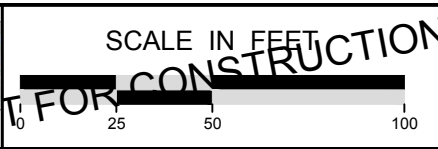
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WETLANDS
STORM LAKE, BUENA VISTA COUNTY,
IOWA
STATE PROJECT NO. --- CITY PROJECT NO. ---

STORM SEWER OVERVIEW
SHEET 32 OF 46 SHEETS



Plot Date: 12/24/2019
Drawing Name: X:\clients_municipal\1112_storm_lake_a\0019_wastewater_treatment_facility_pond\09_gms_projects\dwg\1112-19_30_Plans\1112-19_Storm_Sewer.dwg
Xrefs: 1112_2019_XBase2; 1112_0019-F-Grading and Drainage

6			
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3	07/03/2018	BR	90% PRELIMINARY SUBMITTAL
2	01/05/2018	BR	60% PRELIMINARY SUBMITTAL
1	03/17/2017	BR	30% PRELIMINARY SUBMITTAL
NO	DATE	BY	REVISION



SUBMISSION DATE: 10/25/2017	
DESIGN BY DRL	DRAWN BY BR
EOR PROJECT NO. 01112-0019	

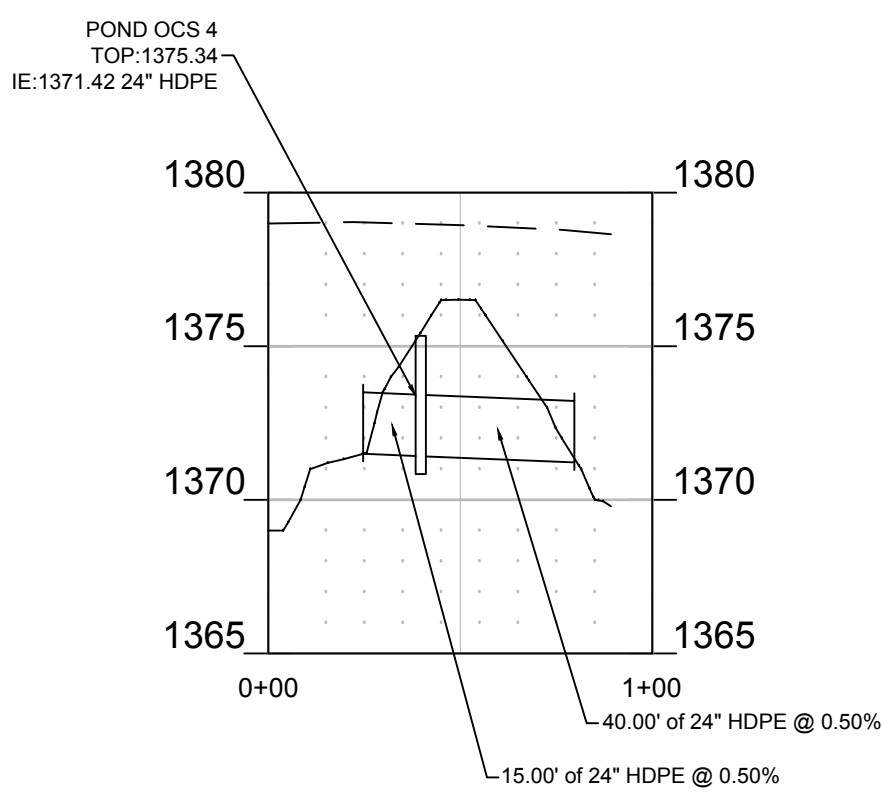
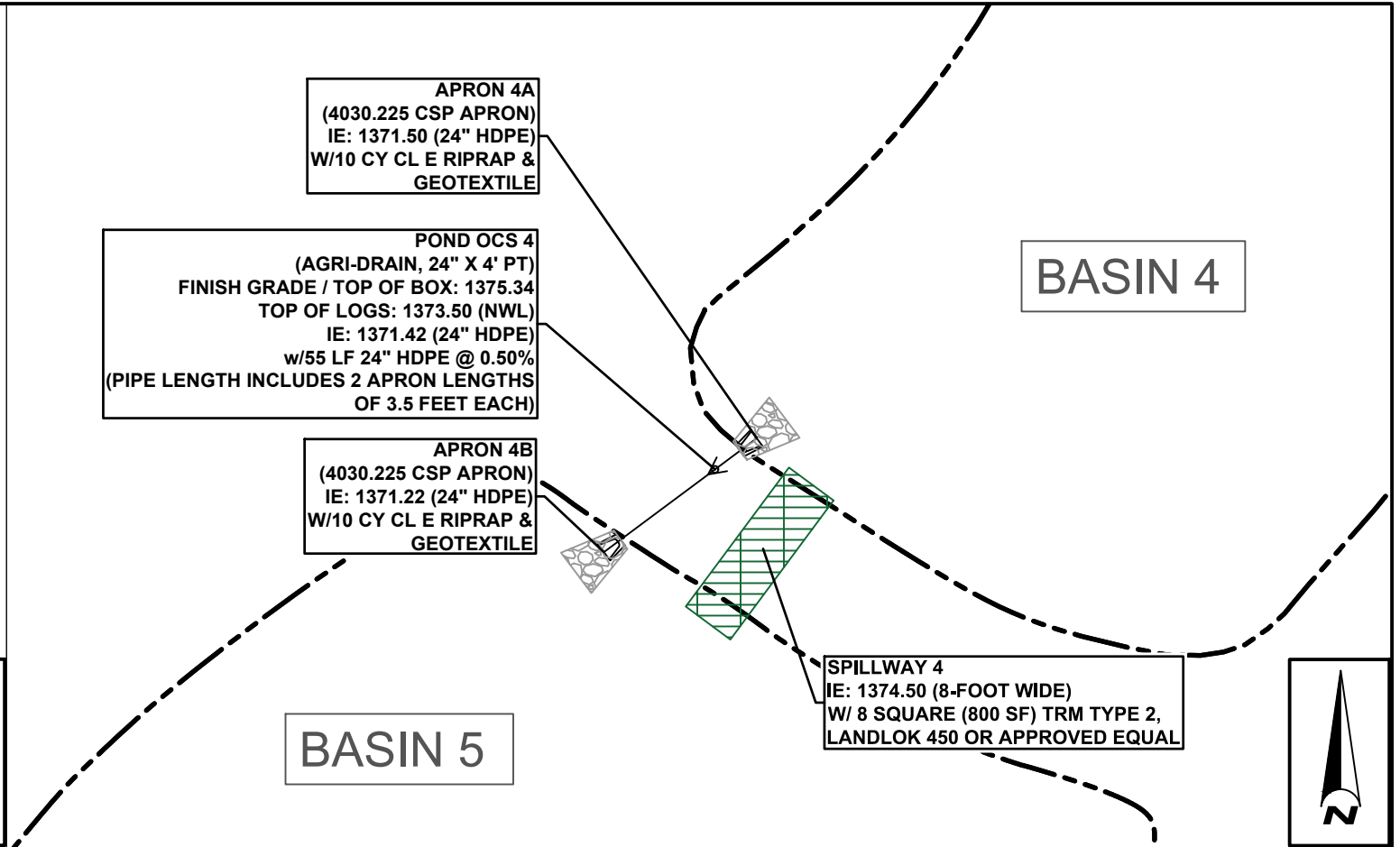
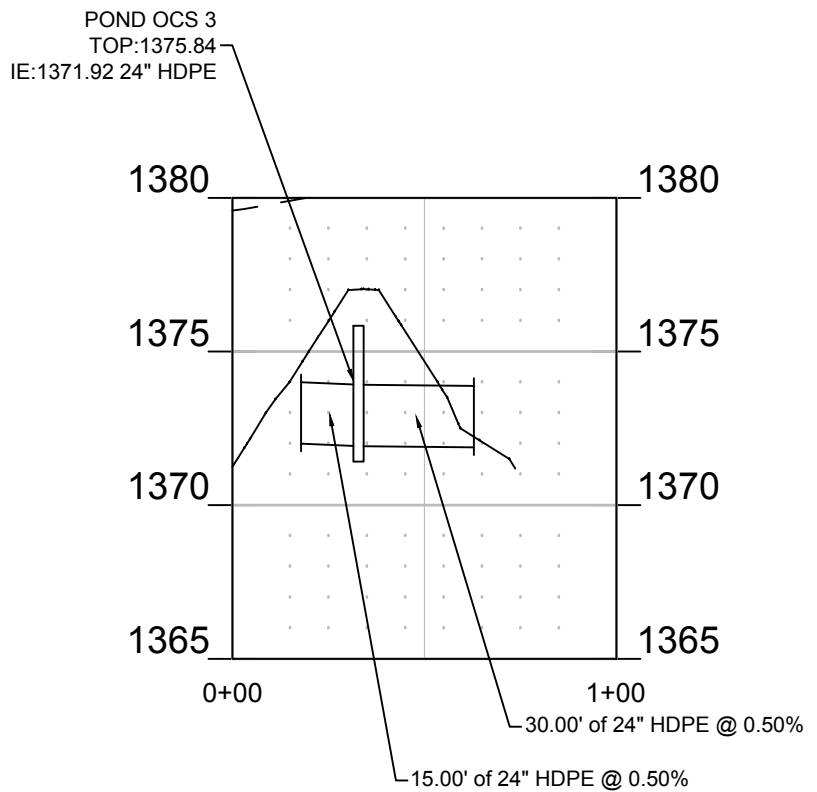
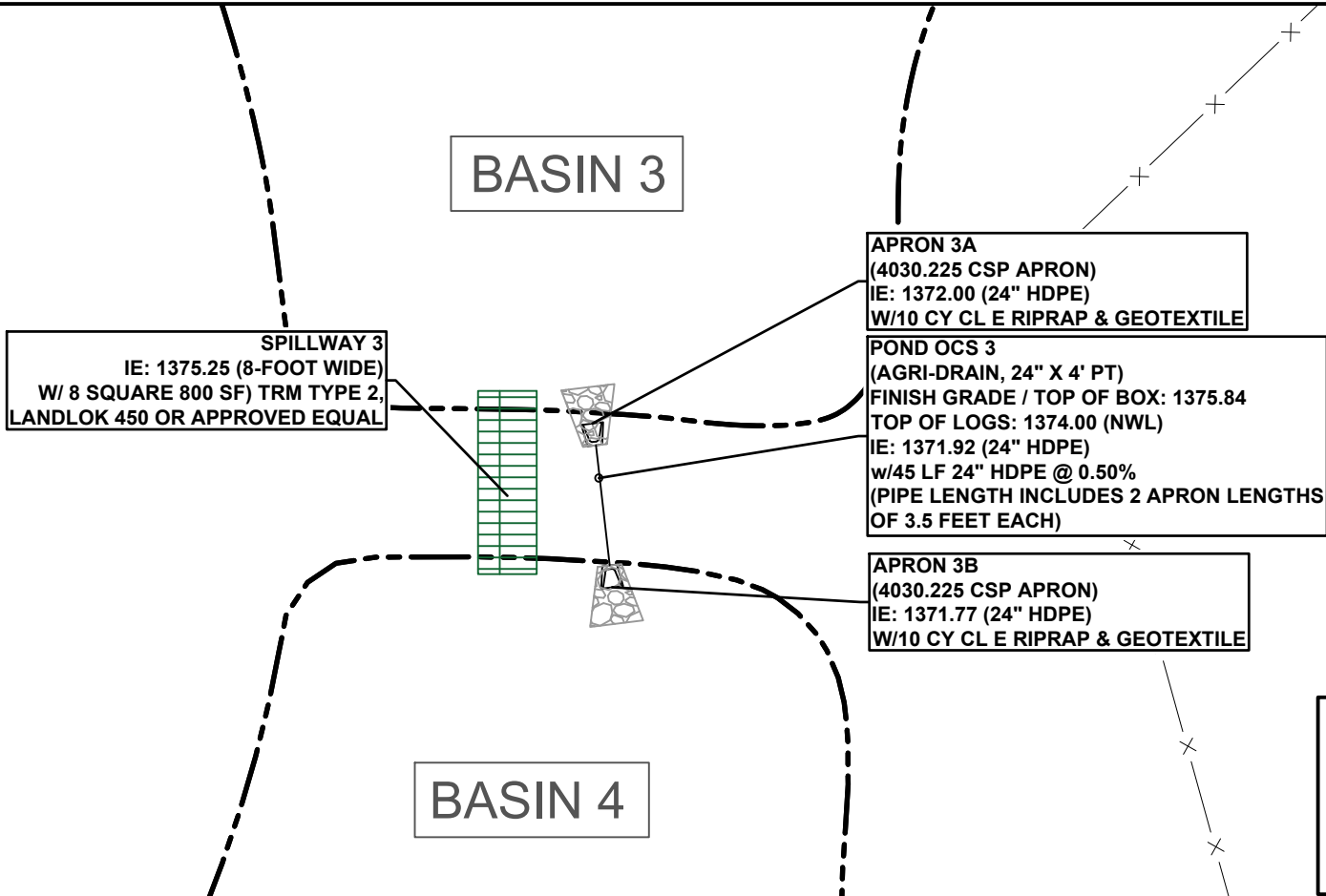
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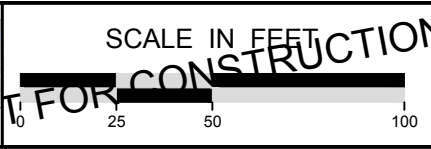
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STORM SEWER PLAN AND PROFILE - AREA 1 & 2
SHEET 33 OF 46 SHEETS

Plot Date: 12/24/2019
Drawing name: X:\clients_municipal\112_storm_lake_a\0019_wastewater_treatment_facility_pond\09_gms_projects\dwg\112-19_30_Plans\112-19_Storm_Sewer.dwg
Xrefs: 112_2019_XBase2; 112_0019-F-Grading and Drainage



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4	02/01/2019	BR	100% FINAL SUBMITAL
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2	01/05/2018	BR	60% PRELIMINARY SUBMITTAL
1	03/17/2017	BR	30% PRELIMINARY SUBMITTAL
NO	DATE	BY	REVISION

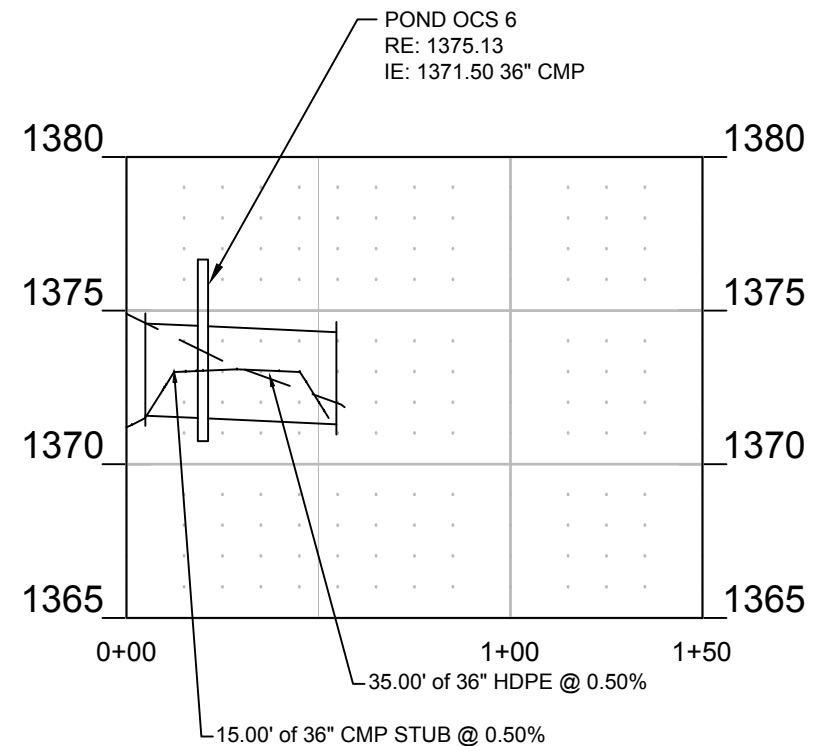
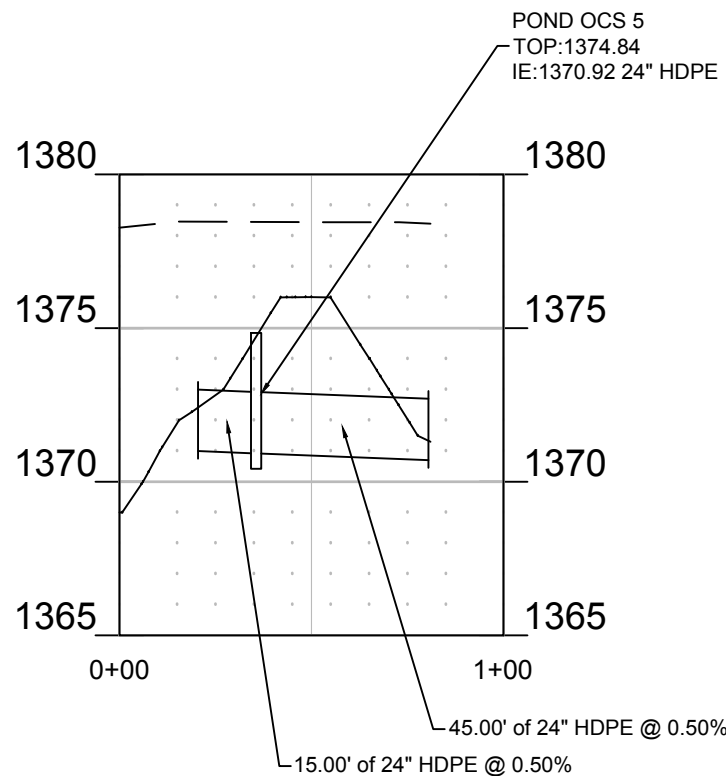
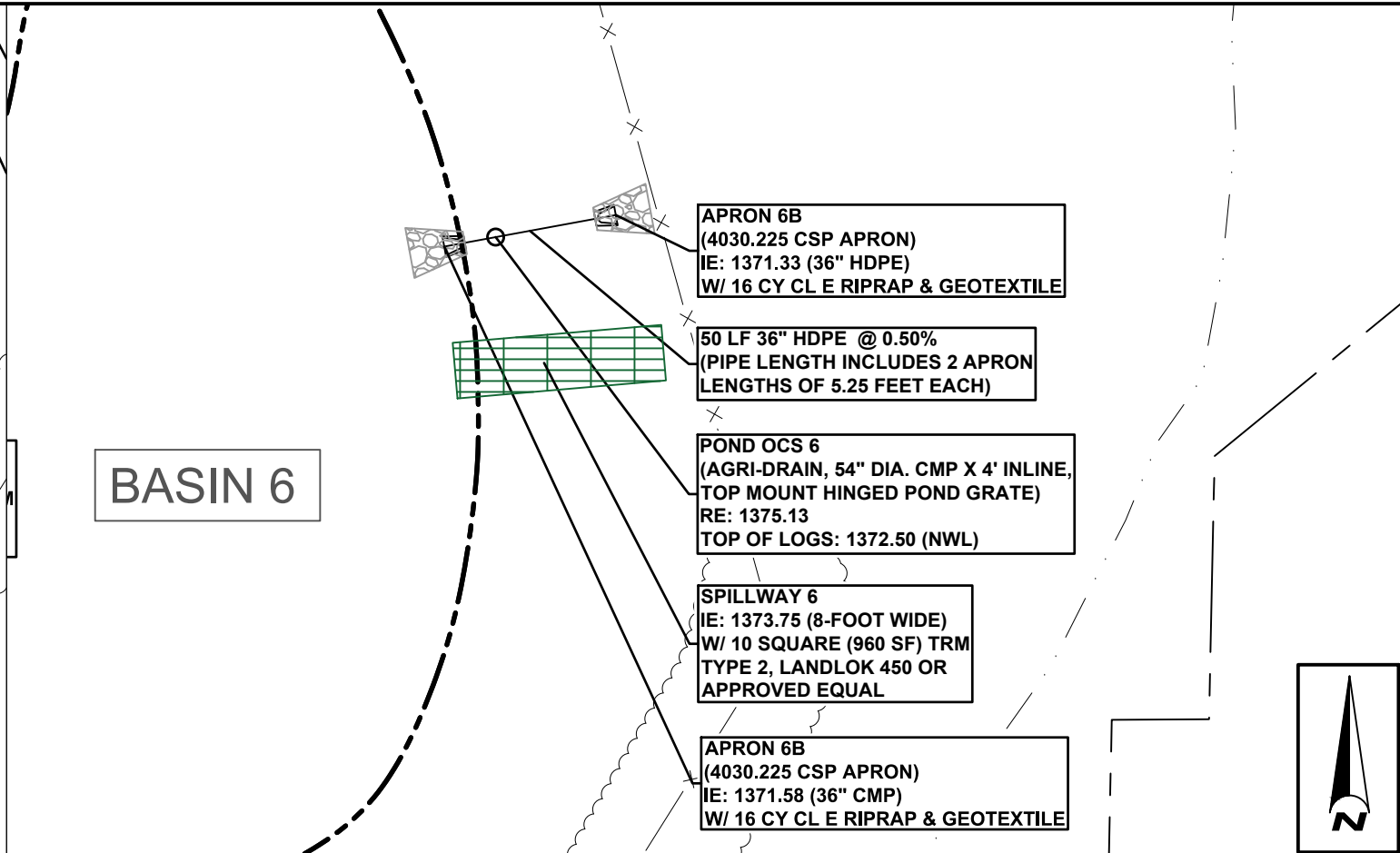
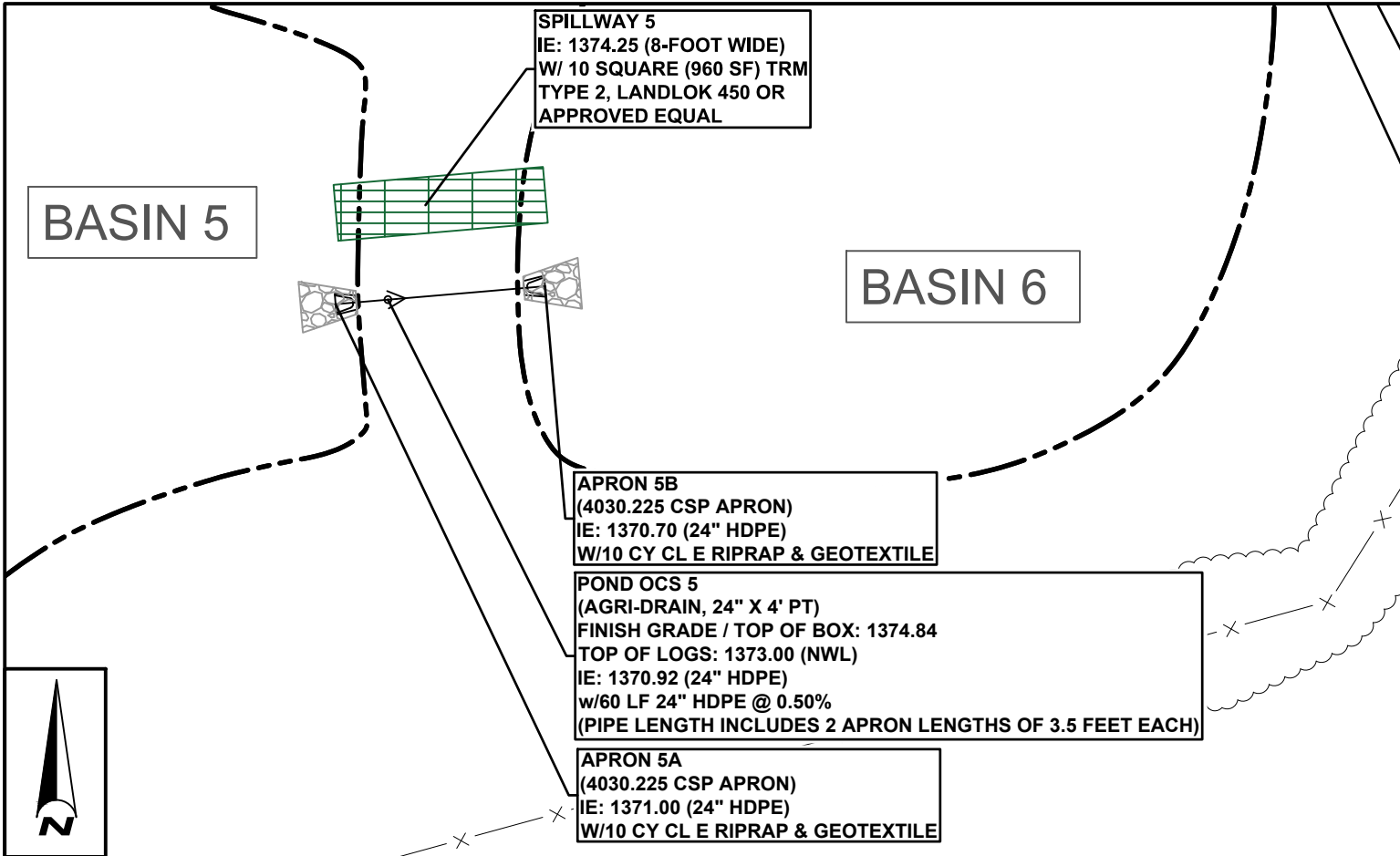


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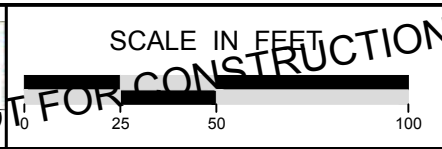


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Xrefs: 112_2019_XBase2_112_0019-F-Grading and Drainage

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Drawing name: X:\clients_municipal\112_storm_lake_a\0018_wastewater_treatment_facility_pond\09_gms_projects\dwg\1112-19_30_Plans\1112-19_Landscape_Rest.dwg
Xrefs: 1112_0019-XBase2; 1112_0019-F-Grading and Drainage

Seeding Schedule

Area	Type	SUDAS Seed Mix	Rate	Area
A	UPLAND	2.02 - C - Type 3 - Permanent Warm-Season Slope and Ditch Mixture	(see SUDAS specification)	18.73 acre
B	WETLAND	1A CP23 WET MIX	4.07 lb/acre (40.1 seeds/sq ft)	8.44 acre
C	SLOPES	1A CP25 STANDARD MIX	5.9 lb/acre (40.1 seeds/sq ft)	3.89 acre

Deciduous Shrub Planting Schedule

Quantity	Scientific Name	Common Name	Size	Type	Spacing
126	<i>Aronia melanocarpa</i>	Glossy Black Chokeberry	24" Height	#5 Cont.	5' O.C.
126	<i>Cephalanthus occidentalis</i>	Buttonbush	24" Height	#5 Cont.	5' O.C.
156	<i>Cornus stolonifera</i>	Red-osier Dogwood	24" Height	#5 Cont.	5' O.C.
172	<i>Salix discolor</i>	Pussy Willow	24" Height	#5 Cont.	5' O.C.
80	<i>Viburnum dentatum</i>	Arrow wood	24" Height	#5 Cont.	5' O.C.
660	Shrub Total				

Deciduous Tree Planting Schedule

Symbol	Est. Qty.	Scientific Name	Common Name	Size	Cont.	Type
CC	4	<i>Cretaeagus crus-galli</i>	Hawthorne	2"	B&B	Single Stem
JC	3	<i>Juglans cinerea</i>	Black Walnut	2"	B&B	Single Stem
OV	6	<i>Ostrya virginiana</i>	Ironwood	2"	B&B	Single Stem
PO	3	<i>Platanus occidentalis</i>	Sycamore	2"	B&B	Single Stem
QA	3	<i>Quercus alba</i>	White Oak	2"	B&B	Single Stem
QM	6	<i>Quercus macrocarpa</i>	Bur Oak	2"	B&B	Single Stem
QR	6	<i>Quercus rubra</i>	Red Oak	2"	B&B	Single Stem
	31	Tree Total				



MULCH NOTE:
DOUBLE-SHREDDED HARDWOOD MULCH TO BE INSTALLED AROUND ALL TREES AND SHRUBS. MULCH SHALL BE 3" DEEP IN ALL AREAS. 3' DIAMETER MULCH RING AROUND ALL TREE PLANTINGS SHALL BE INCIDENTAL. MULCH AROUND SHRUBS SHALL COVER ENTIRE SHRUB BED AREA - AND SHALL BE INCIDENTAL.

LEGEND:

- SEED: SUDAS TYPE 3 MIX
- SEED: CP23 WET MIX
- SEED: CP25 STANDARD MIX
- BAT BOX ON POLE
- HABITAT LOG
- DECIDUOUS TREE
- DECIDUOUS SHRUBS
- EXISTING TREE
- STORM SEWER
- EOF



6			
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4	02/01/2019	BR	100% FINAL SUBMITAL
3	07/03/2018	BR	90% PRELIMINARY SUBMITTAL
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1	03/17/2017	BR	30% PRELIMINARY SUBMITTAL
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EOR PROJECT NO.
01112-0019

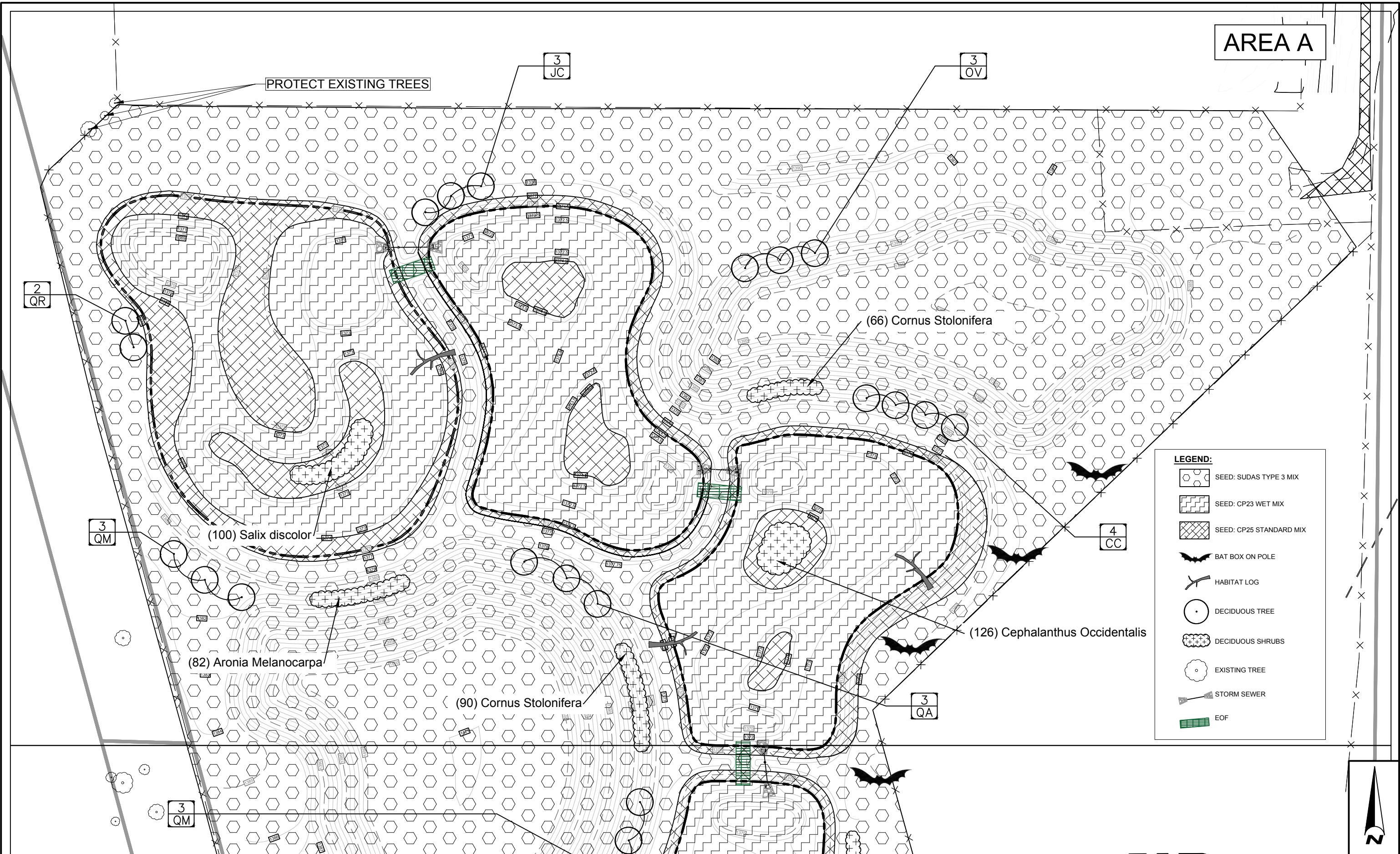
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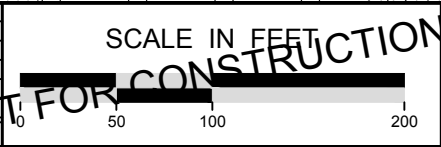
WASTEWATER TREATMENT PLANT
WETLANDS
STORM LAKE, BUENA VISTA COUNTY,
IOWA
STATE PROJECT NO. --- CITY PROJECT NO. ---

LANDSCAPE RESTORATION PLAN
SHEET 36 OF 46 SHEETS

Plot Date: 12/24/2019
Drawing Name: X:\clients_municipal\1112_storm_lake_a\0019_wastewater_treatment_facility_pond\09_landscape\1112-19_30_Plans\1112-19_Landscape_Rest.dwg
Xrefs: 1112_0019_XBase2, 1112_0019-F-Grading and Drainage



6			
5			
4	02/01/2019	BR	100% FINAL SUBMITAL
3	07/03/2018	BR	90% PRELIMINARY SUBMITTAL
2	01/05/2018	BR	60% PRELIMINARY SUBMITTAL
1	03/17/2017	BR	30% PRELIMINARY SUBMITTAL
NO	DATE	BY	REVISION



SUBMISSION DATE: 10/25/2017	
DESIGN BY BH	DRAWN BY BR
EOR PROJECT NO. 01112-0019	

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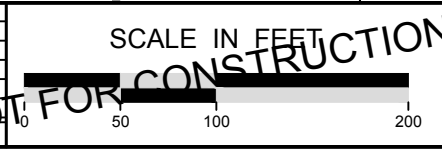
WASTEWATER TREATMENT PLANT
WETLANDS
STORM LAKE, BUENA VISTA COUNTY,
IOWA
STATE PROJECT NO. --- CITY PROJECT NO. ---

LANDSCAPE RESTORATION PLAN - AREA A
SHEET 37 OF 46 SHEETS

Plot Date: 12/24/2019
Drawing Name: X:\clients_municipal\1112_storm_lake_a\0018_wastewater_treatment_facility_pond\09_gms_projects\dwg\1112-19_30_Plans\1112-19_Landscape_Rest.dwg
Xrefs: 1112_0019_XBase2; 1112_0019-F-Grading and Drainage



6			
5			
4	02/01/2019	BR	100% FINAL SUBMITAL
3	07/03/2018	BR	90% PRELIMINARY SUBMITTAL
2	01/05/2018	BR	60% PRELIMINARY SUBMITTAL
1	03/17/2017	BR	30% PRELIMINARY SUBMITTAL
NO	DATE	BY	REVISION



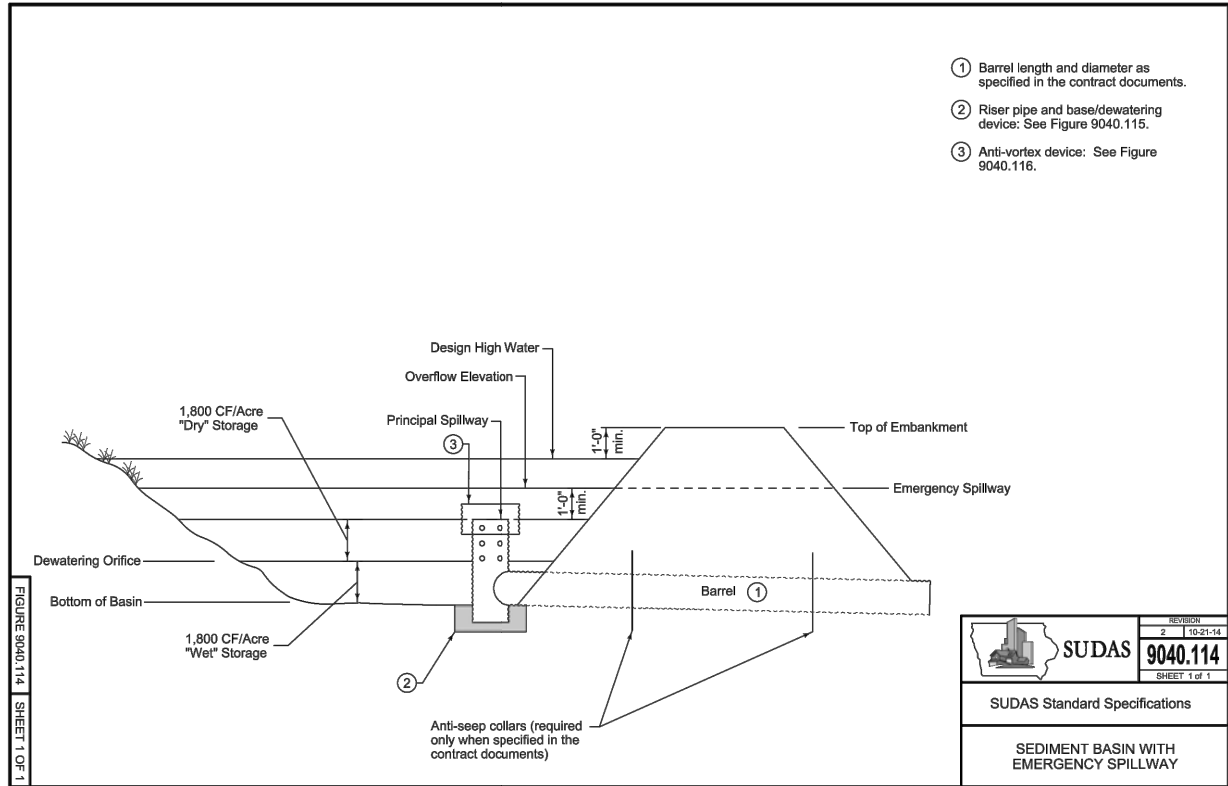
SUBMISSION DATE: 10/25/2017	
DESIGN BY BH	DRAWN BY BR
EOR PROJECT NO. 01112-0019	

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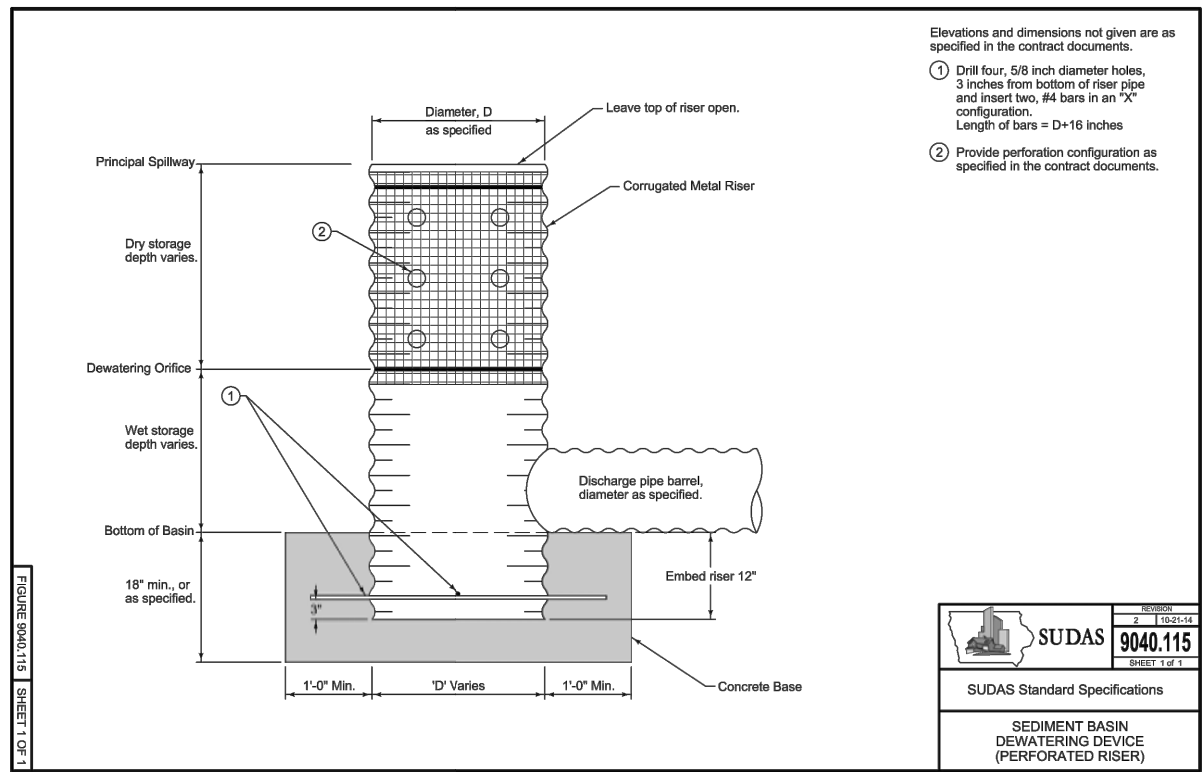
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LANDSCAPE RESTORATION PLAN - AREA B
SHEET 38 OF 46 SHEETS



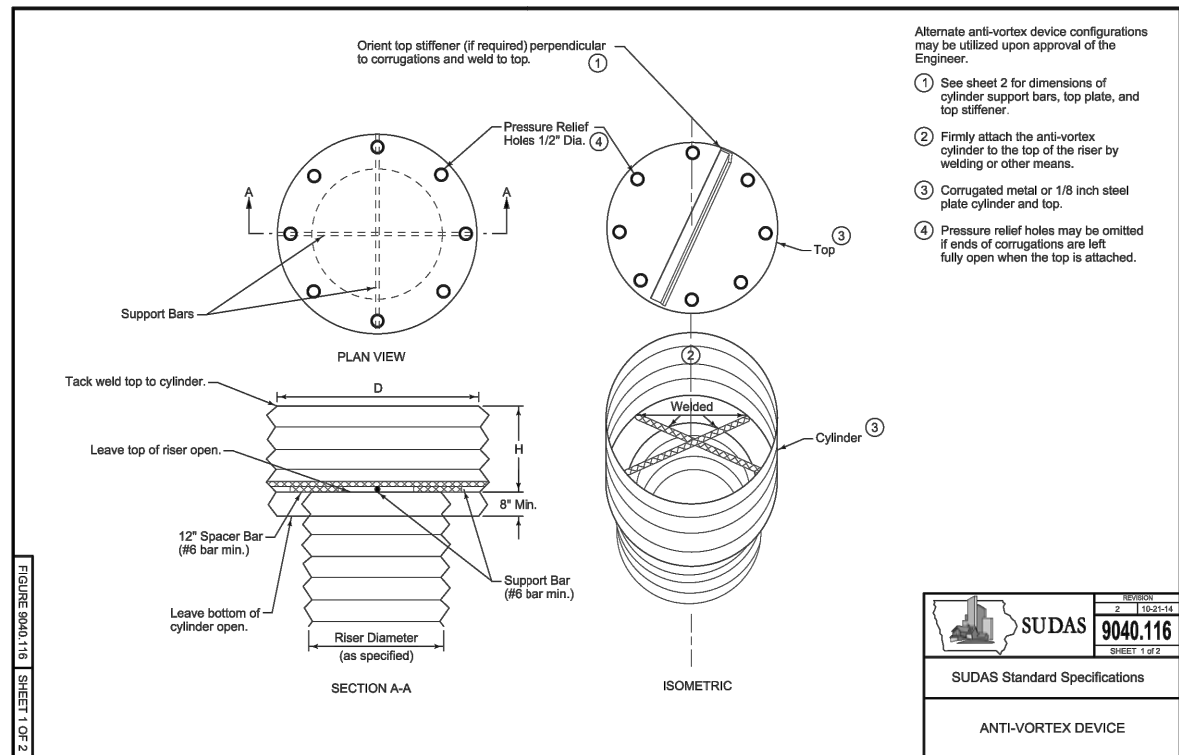
01 SEDIMENT BASIN WITH EMERGENCY SPILLWAY

39 *NOT TO SCALE



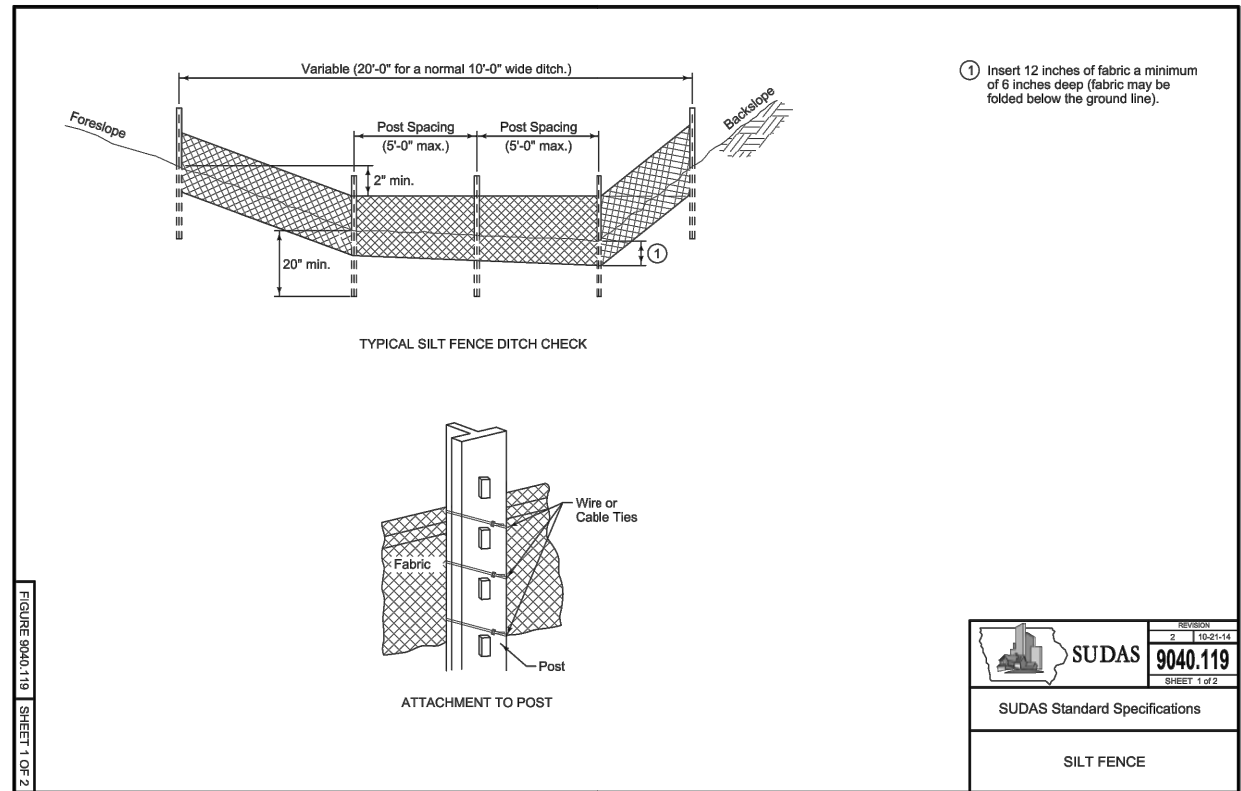
02 SEDIMENT BASIN DEWATERING DEVICE

39 *NOT TO SCALE



03 ANTI - VORTEX DEVICE

39 *NOT TO SCALE



04 SILTS FENCE

39 *NOT TO SCALE

6			
5			
4	02/01/2019	BR	100% FINAL SUBMITAL
3	07/03/2018	BR	90% PRELIMINARY SUBMITTAL
2	01/05/2018	BR	60% PRELIMINARY SUBMITTAL
1	03/17/2017	BR	30% PRELIMINARY SUBMITTAL
NO	DATE	BY	REVISION



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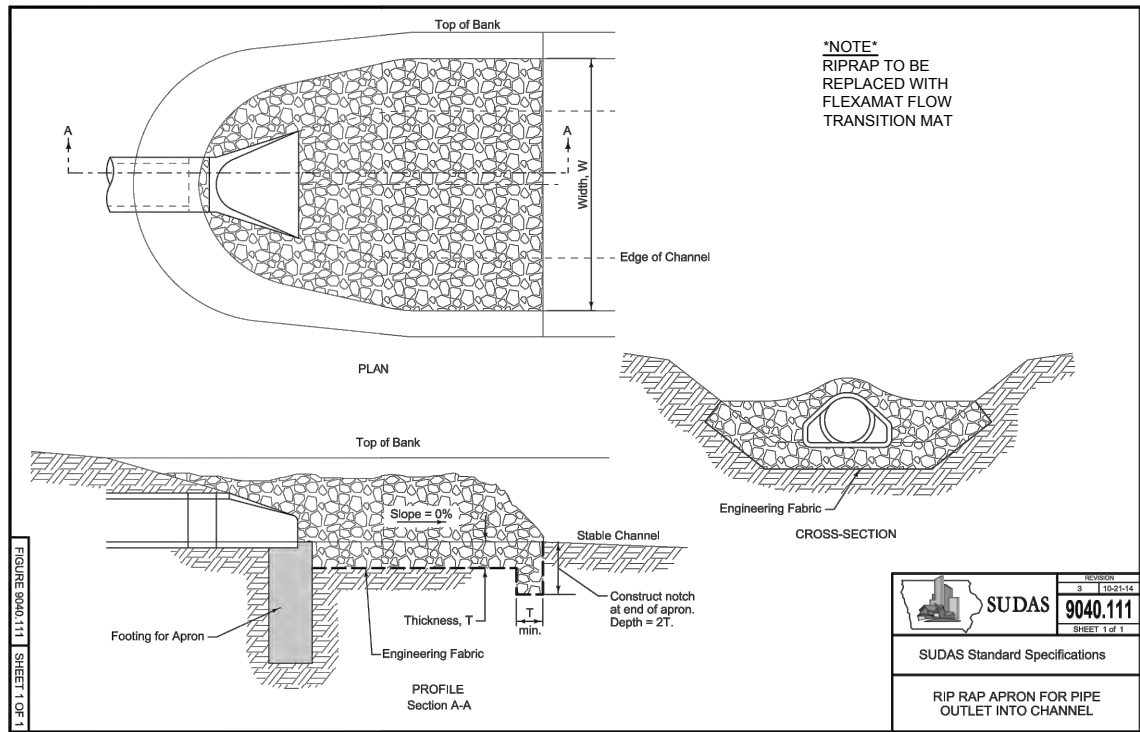
SUBMISSION DATE:	10/25/2017
DESIGN BY	DRL
DRAWN BY	BR
EOR PROJECT NO.	01112-0019

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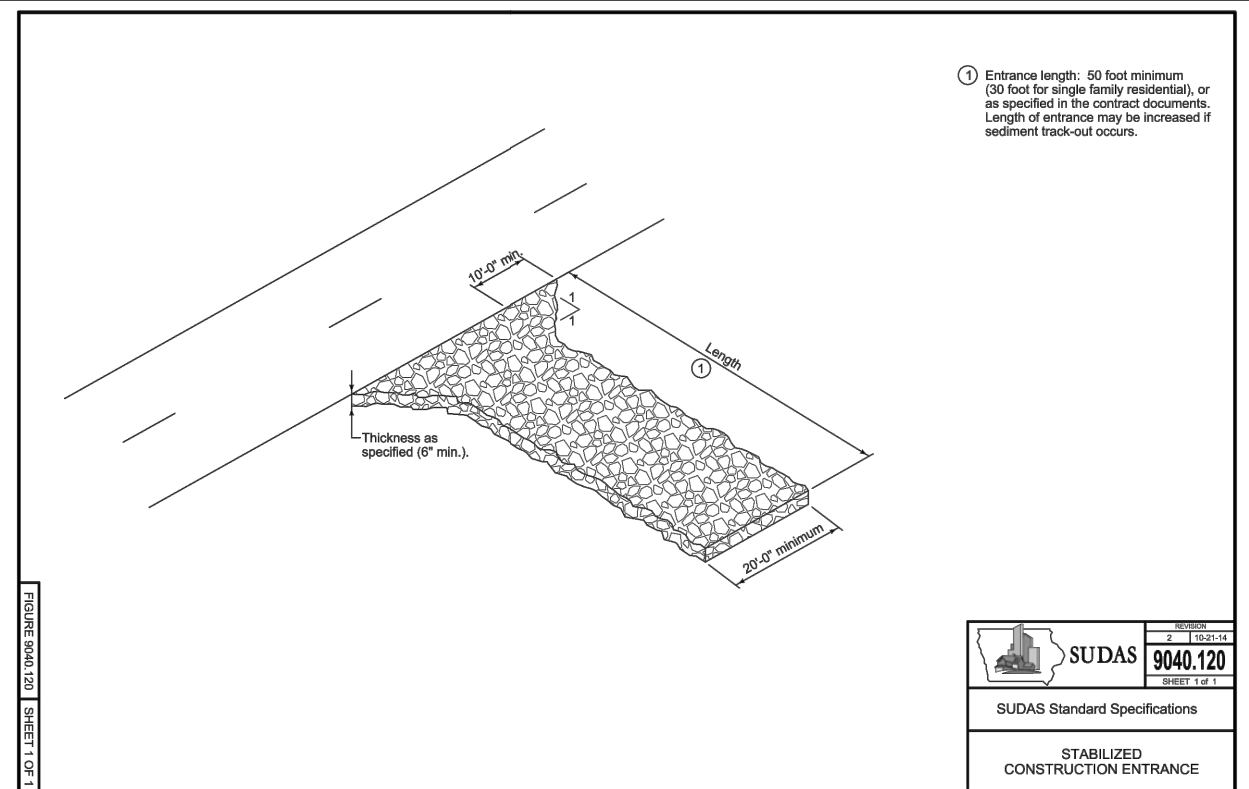
DETAIL SHEET 01
SHEET 39 OF 46 SHEETS



01 RIP RAP APRON FOR PIPE OUTLET INTO CHANNEL

*NOT TO SCALE

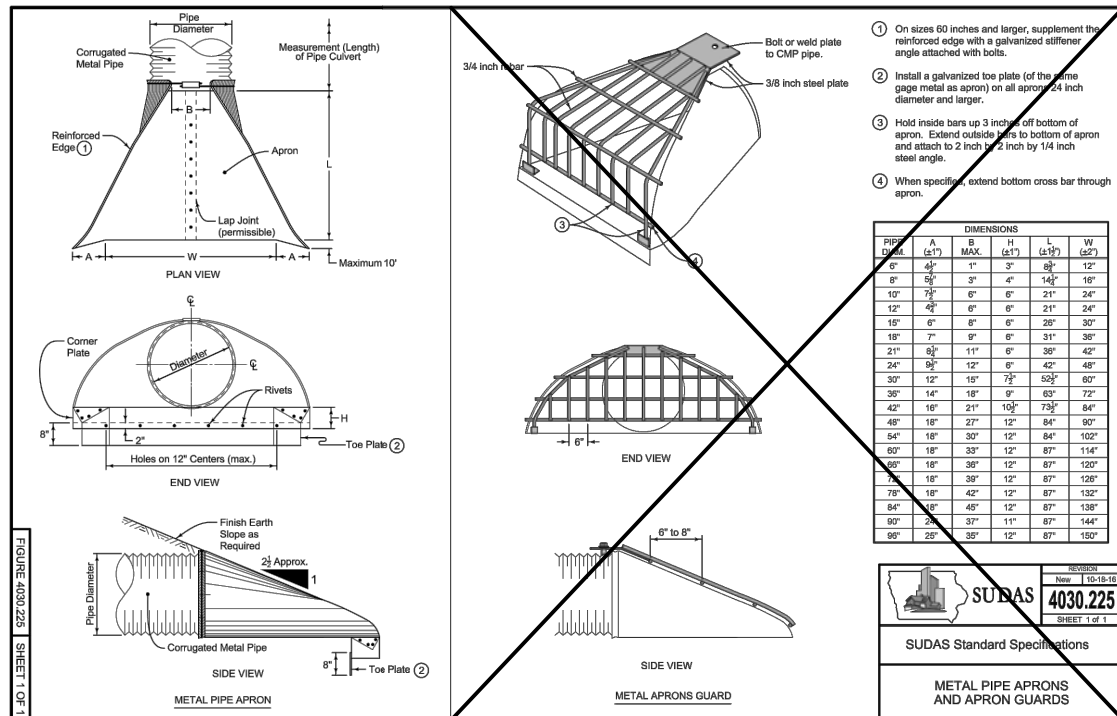
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02 STABILIZED CONSTRUCTION ENTRANCE

*NOT TO SCALE

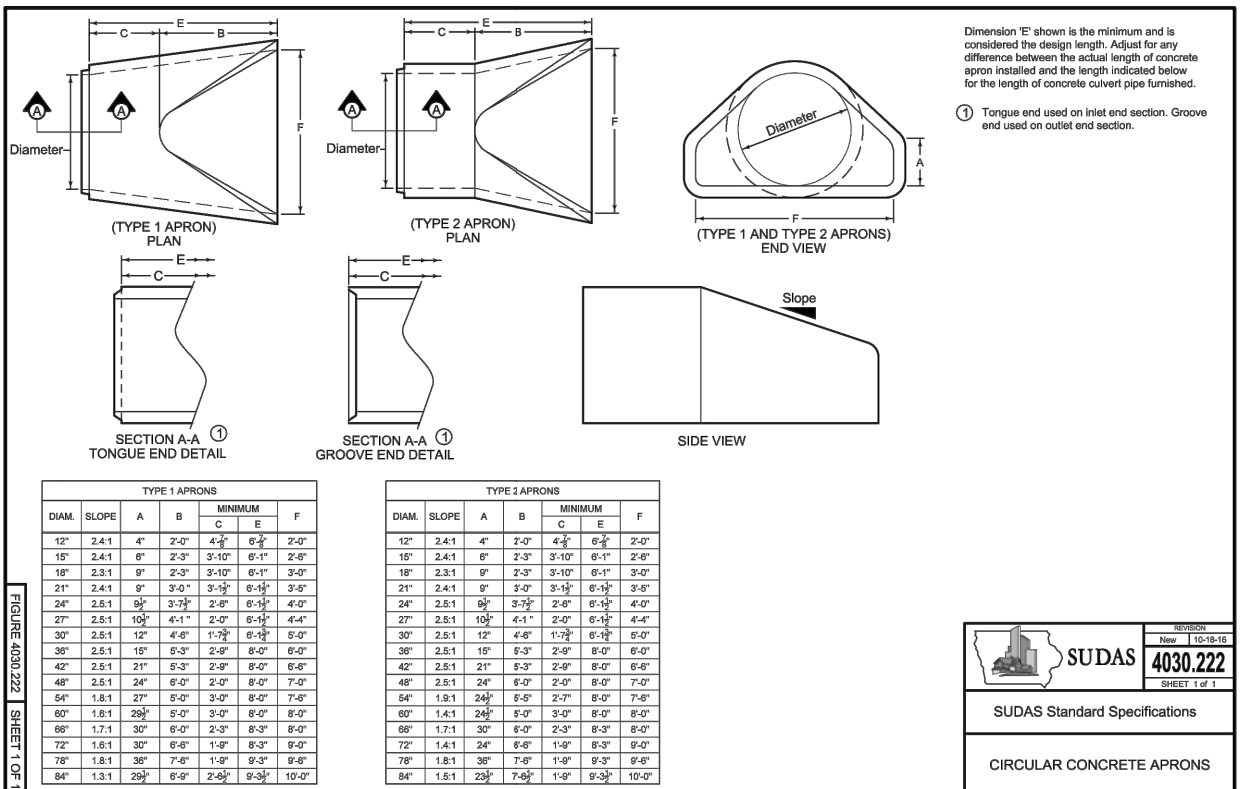
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03 METAL PIPE APRONS AND APRON GUARDS

*NOT TO SCALE

40



04 CIRCULAR CONCRETE APRONS

*NOT TO SCALE

40

6			
5			
4	02/01/2019	BR	100% FINAL SUBMITAL
3	07/03/2018	BR	90% PRELIMINARY SUBMITTAL
2	01/05/2018	BR	60% PRELIMINARY SUBMITTAL
1	03/17/2017	BR	30% PRELIMINARY SUBMITTAL
NO	DATE	BY	REVISION



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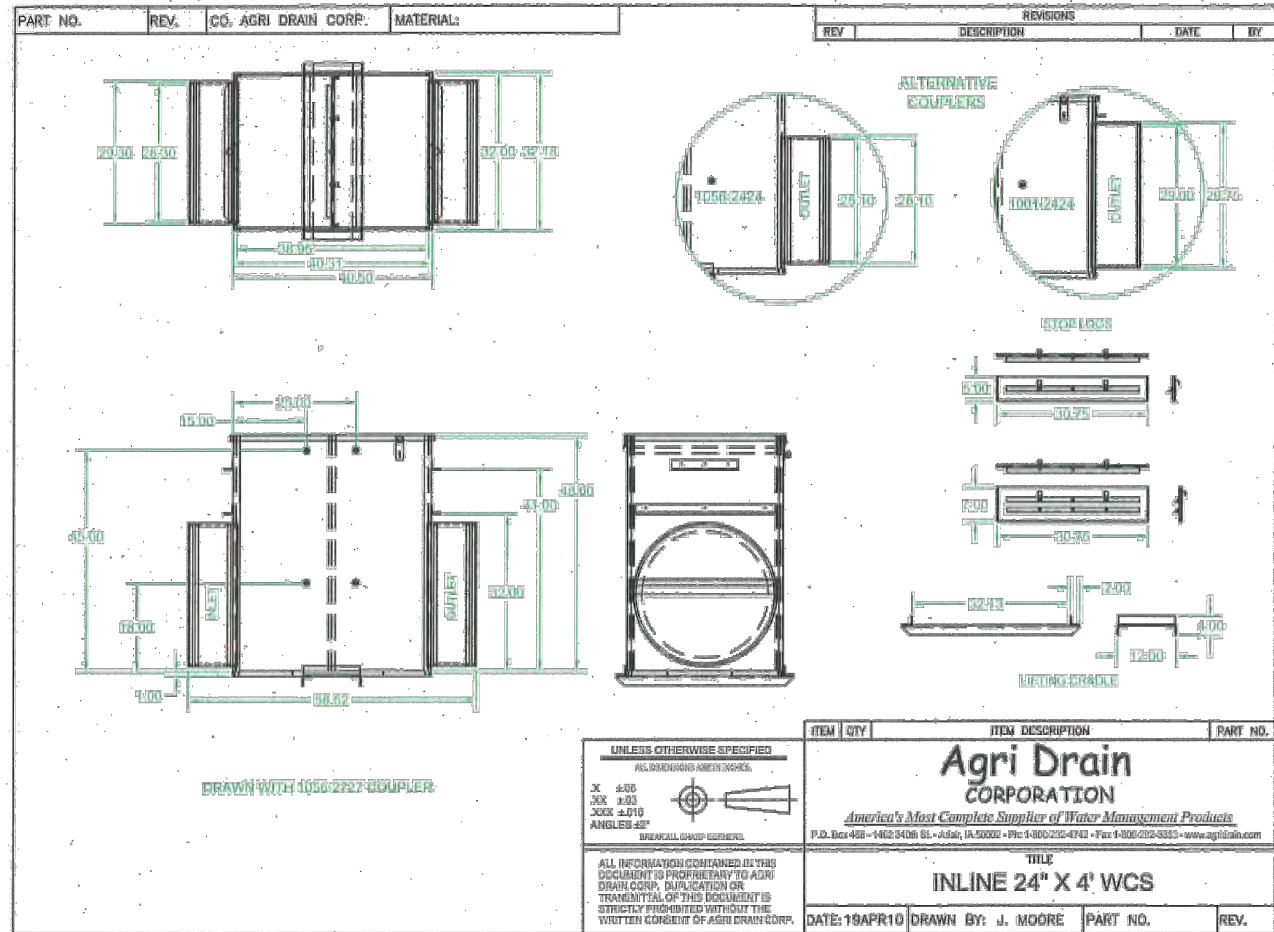
WASTEWATER TREATMENT PLANT
WETLANDS
STORM LAKE, BUENA VISTA COUNTY,
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STATE PROJECT NO. --- CITY PROJECT NO. ---

DETAIL SHEET 02

SHEET 40 OF 46 SHEETS

Plot Date: 02/04/2019
Drawing Name: X:\clients_municipal\112_storm_lake_la0019_wastewater_treatment_facility_pond09_dms_project\dwg\1112-19_DETAIL DRAWINGS.dwg
Xrefs: 1112-20_Street Section



01

AGRI DRAIN 24" X 4' WCS

41

*NOT TO SCALE

6			
5			
4	02/01/2019	BR	100% FINAL SUBMITAL
3	07/03/2018	BR	90% PRELIMINARY SUBMITTAL
2	01/05/2018	BR	60% PRELIMINARY SUBMITTAL
1	03/17/2017	BR	30% PRELIMINARY SUBMITTAL
NO	DATE	BY	REVISION



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SUBMISSION DATE:
10/25/2017

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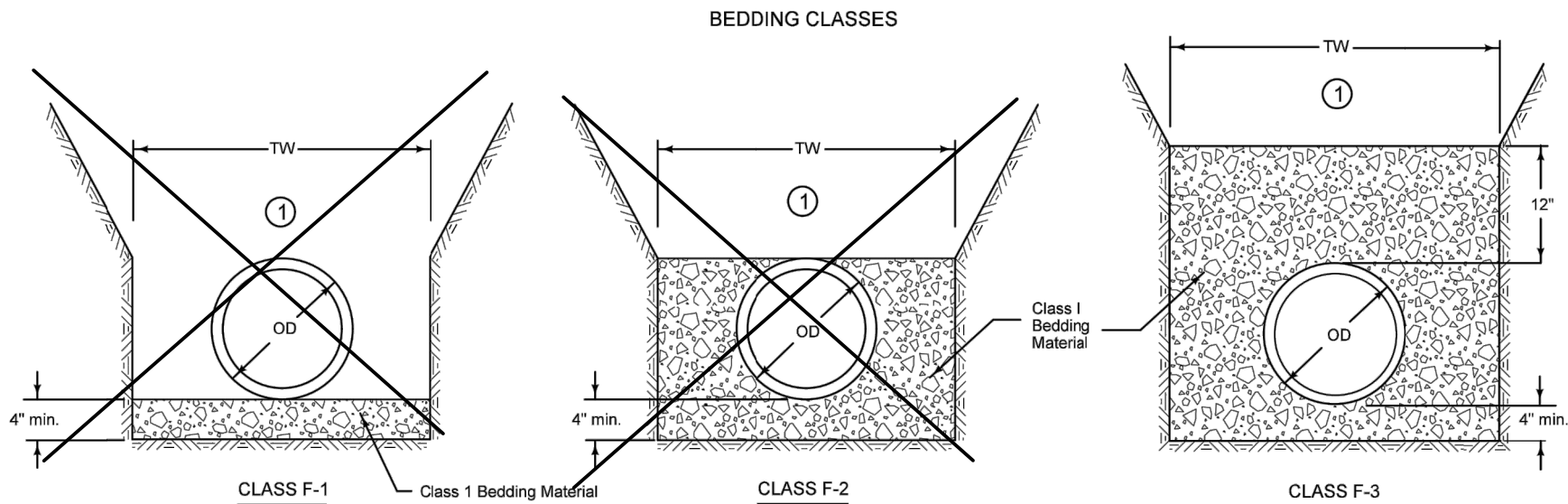


WASTEWATER TREATMENT PLANT
WETLANDS
STORM LAKE, BUENA VISTA COUNTY,
IOWA

STATE PROJECT NO. --- CITY PROJECT NO. ---

DETAIL SHEET 03

SHEET 41 OF 46 SHEETS



- ① Place remainder of bedding and backfill materials as specified in the contract documents.
- ② Minimum depth of bury 12 inches or as specified by the manufacturer.

ALLOWABLE BEDDING CLASSES

PIPE MATERIAL	STORM SEWER	SANITARY SEWER
Ductile Iron	F-1, F-2, F-3	F-1, F-2, F-3
HDPE	F-2, F-3	Not allowed
Polypropylene	F-2, F-3	F-3
PVC	F-2, F-3	F-3

Key

OD = Outside diameter of pipe

TW = Trench width at top of pipe:
Min. = OD+18 inches OR 1.25xOD+12 inches
(whichever is greater)

ALLOWABLE BURY DEPTH ②

PVC PIPE

Pipe Diameter (in)	ASTM D 3034			ASTM F 679	ASTM F 949	ASTM F 1803	ASTM D 2680
	Solid Wall			Solid Wall	Corrug. Exterior	Closed Profile	Composite (Truss Type)
	SDR 23.5	SDR 26	SDR 35				
8	30'	28'	24'	---	24'	---	32'
10	30'	28'	24'	---	24'	---	32'
12	30'	28'	24'	---	24'	---	32'
15	30'	28'	24'	---	24'	---	32'
18	---	---	---	24'	24'	---	---
21	---	---	---	24'	24'	24'	---
24	---	---	---	24'	24'	24'	---
27	---	---	---	24'	---	24'	---
30	---	---	---	24'	24'	24'	---
33	---	---	---	24'	---	---	---
36	---	---	---	24'	24'	24'	---
42	---	---	---	24'	---	24'	---
48	---	---	---	24'	---	24'	---
54	---	---	---	---	---	24'	---
60	---	---	---	---	---	24'	---

DUCTILE IRON, AWWA C151, CLASS 52

Pipe Diameter (in)	Class F-1 Bedding	Class F-2 Bedding	Class F-3 Bedding
4	40'	40'	40'
6	40'	40'	40'
8	40'	40'	40'
10	40'	40'	40'
12	37"	40'	40'
14	31'	40'	40'
16	28'	37"	40'
18	25'	34'	40'
20	23'	32'	40'
24	20'	29'	38'
30	18'	23'	31'
36	18'	22'	30'
42	17'	21'	29'
48	16'	19'	27'
54	16'	19'	27'

HDPE PIPE

Pipe Diameter (in)	AASHTO M 294
12	8'
15	9'
18	9'
24	9'
30	9'
36	9'
42	8'
48	8'
54	8'
60	8'

POLYPROPYLENE PIPE

Pipe Diameter (in)	ASTM F 2736	ASTM F 2764
12	24'	---
15	25'	---
18	22'	---
24	20'	---
30	22'	22'
36	---	21'
42*	---	22'
48*	---	23'
54*	---	21'
60*	---	21'

*Storm Sewer Only

SUDAS	IOWADOT	REVISION
		2 10-18-16
		SW-103
FIGURE 3010.103	STANDARD ROAD PLAN	SHEET 1 of 1
REVISIONS: Added polypropylene pipe for storm sewer applications.		
Paul D. Wiegand SUDAS DIRECTOR		
Brian Smith DESIGN METHODS ENGINEER		
FLEXIBLE GRAVITY PIPE TRENCH BEDDING		

**01
42 FLEXIBLE GRAVITY PIPE TRENCH BEDDING**

*NOT TO SCALE

Plot Date: 02/04/2019
Drawing Name: X:\clients_municipal\01112_storm_lake_la0010_wastewater_treatment_facility_pond09_dms_project\dwg\1112-10_DETAIL DRAWINGS.dwg
User: 1112-20_Street Section

NO	DATE	BY	REVISION
6			
5			
4	02/01/2019	BR	100% FINAL SUBMITAL
3	07/03/2018	BR	90% PRELIMINARY SUBMITTAL
2	01/05/2018	BR	60% PRELIMINARY SUBMITTAL
1	03/17/2017	BR	30% PRELIMINARY SUBMITTAL



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SUBMISSION DATE: 10/25/2017	
DESIGN BY DRL	DRAWN BY BR
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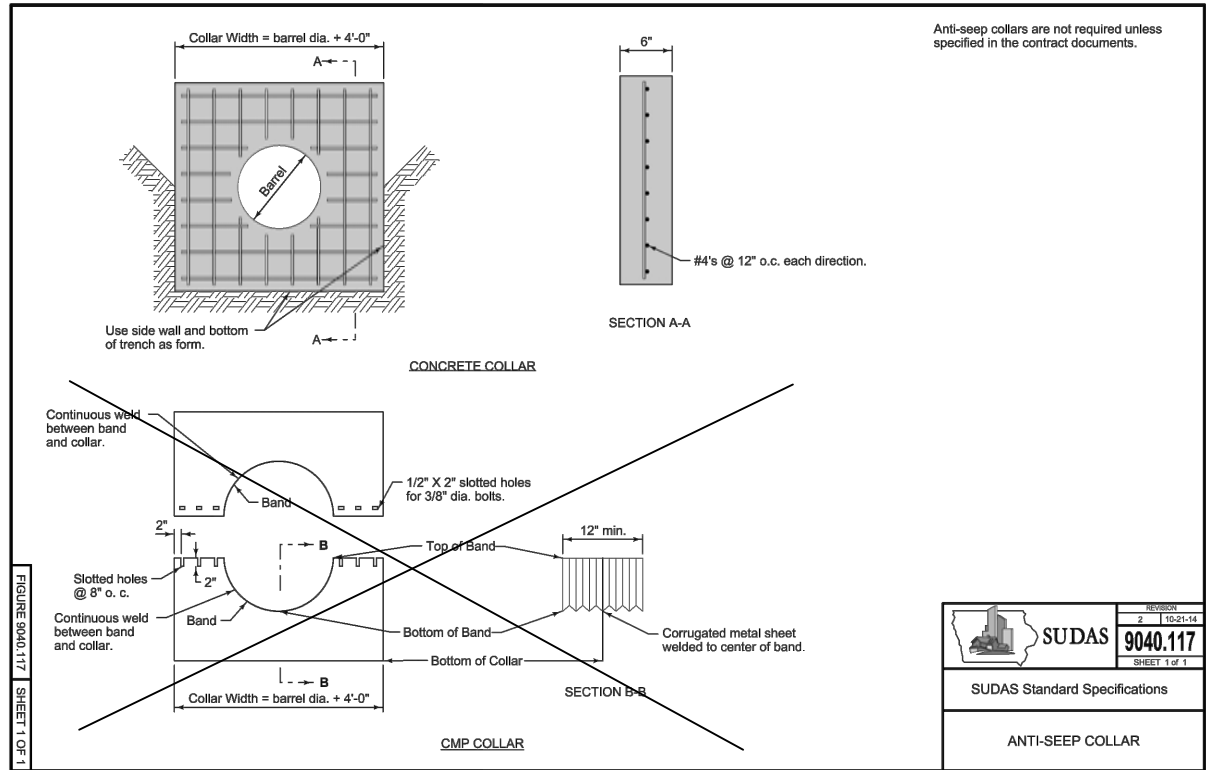


WASTEWATER TREATMENT PLANT
WETLANDS
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IOWA

STATE PROJECT NO. --- CITY PROJECT NO. ---

DETAIL SHEET 04

SHEET 42 OF 46 SHEETS

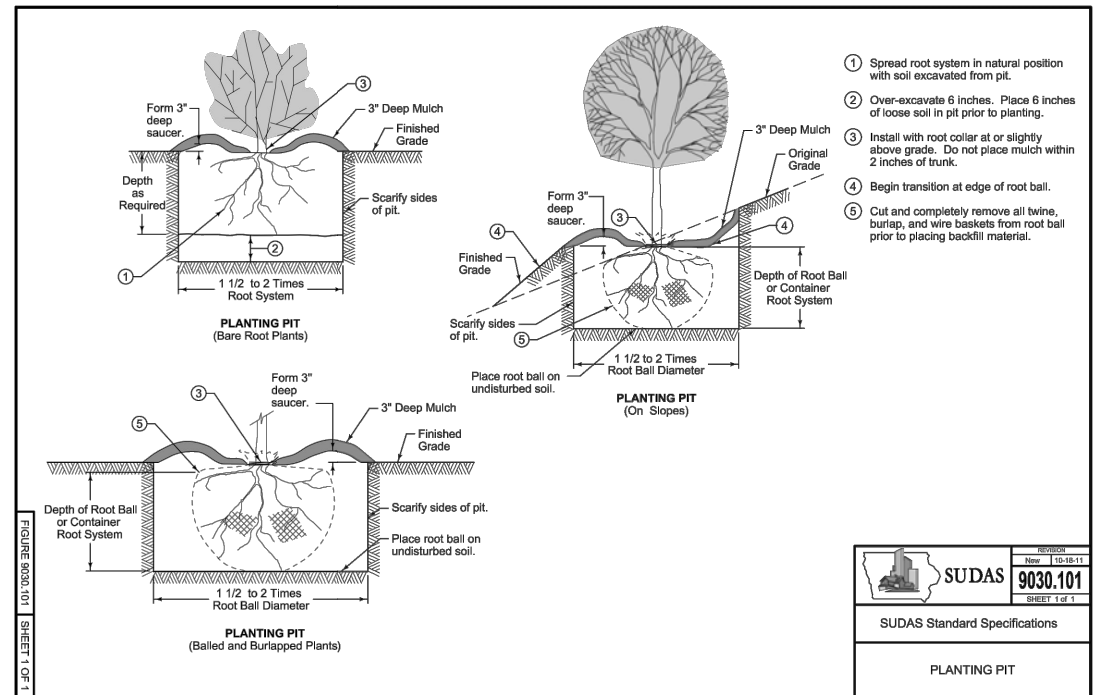


01 ANTI - SEEP COLLAR

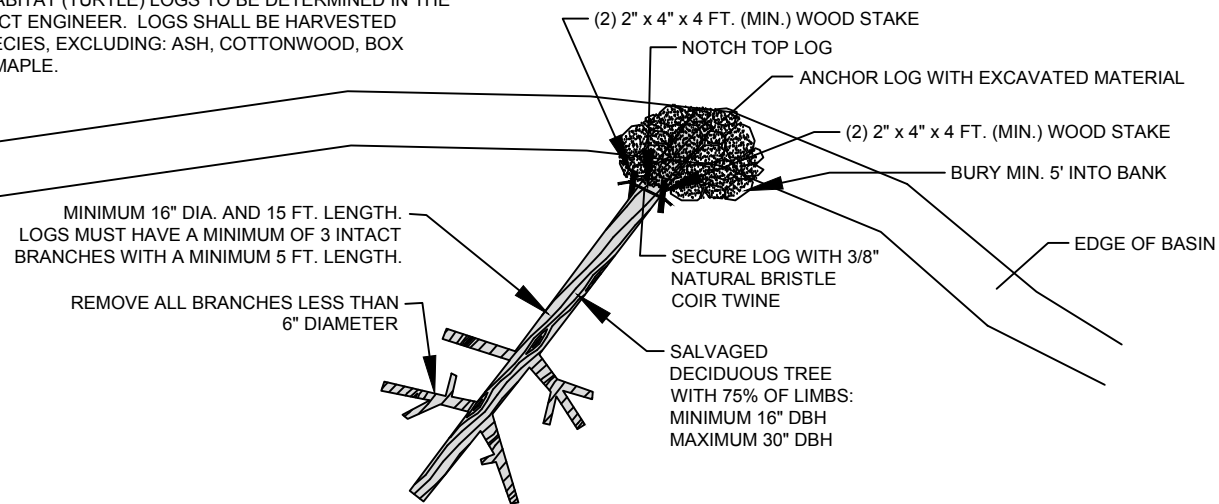
*NOT TO SCALE

02 SUDAS PLANTING DETAIL

*NOT TO SCALE

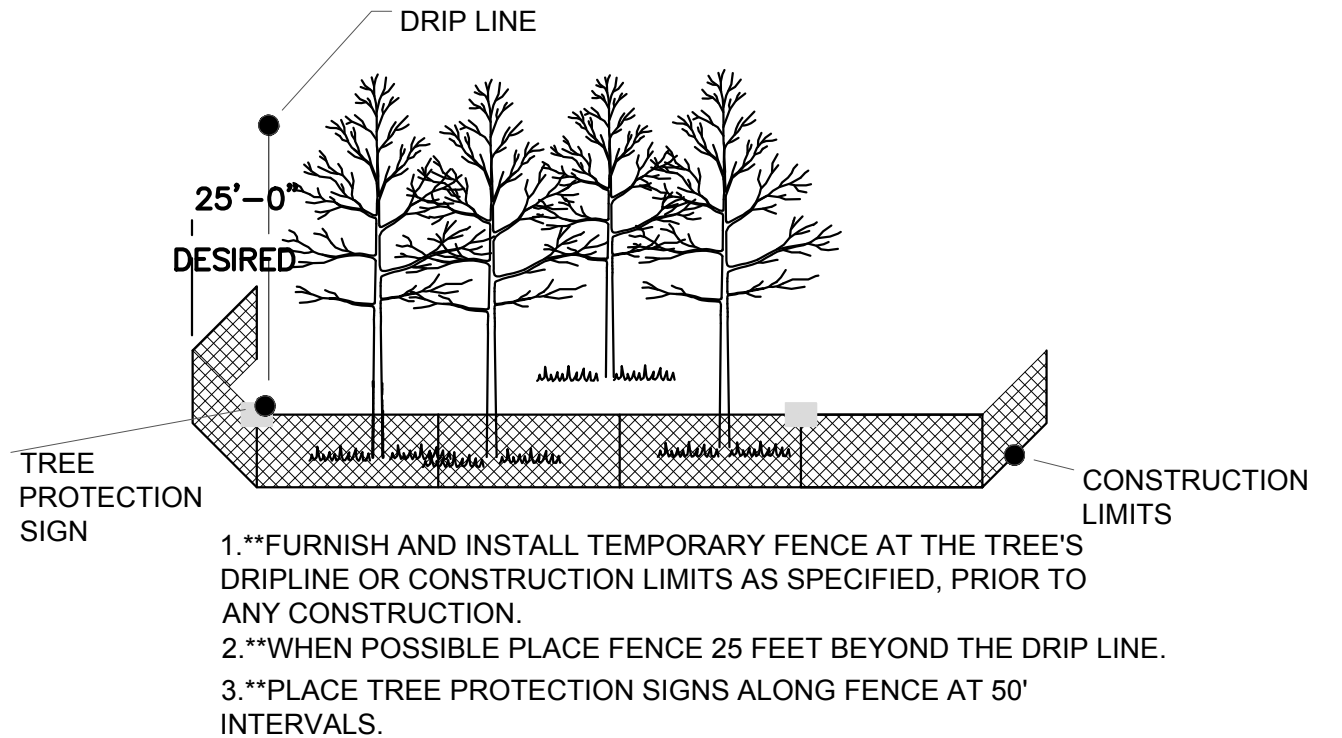


NOTE:
LOCATION OF HABITAT (TURTLE) LOGS TO BE DETERMINED IN THE FIELD BY PROJECT ENGINEER. LOGS SHALL BE HARVESTED HARDWOOD SPECIES, EXCLUDING: ASH, COTTONWOOD, BOX ELDER, SILVER MAPLE.



03 HABITAT LOG DETAIL

*NOT TO SCALE



04 TREE PROTECTION DETAIL

*NOT TO SCALE

Plot Date: 02/04/2019
Drawing Name: X:\clients_municipal\01112_storm_lake_la0016_wastewater_treatment_facility_pond09_dms_project\dwg\1112-19_DETAIL DRAWINGS.dwg
Xrefs: 1112-20_Street Section

NO	DATE	BY	REVISION
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3	07/03/2018	BR	90% PRELIMINARY SUBMITTAL
2	01/05/2018	BR	60% PRELIMINARY SUBMITTAL
1	03/17/2017	BR	30% PRELIMINARY SUBMITTAL



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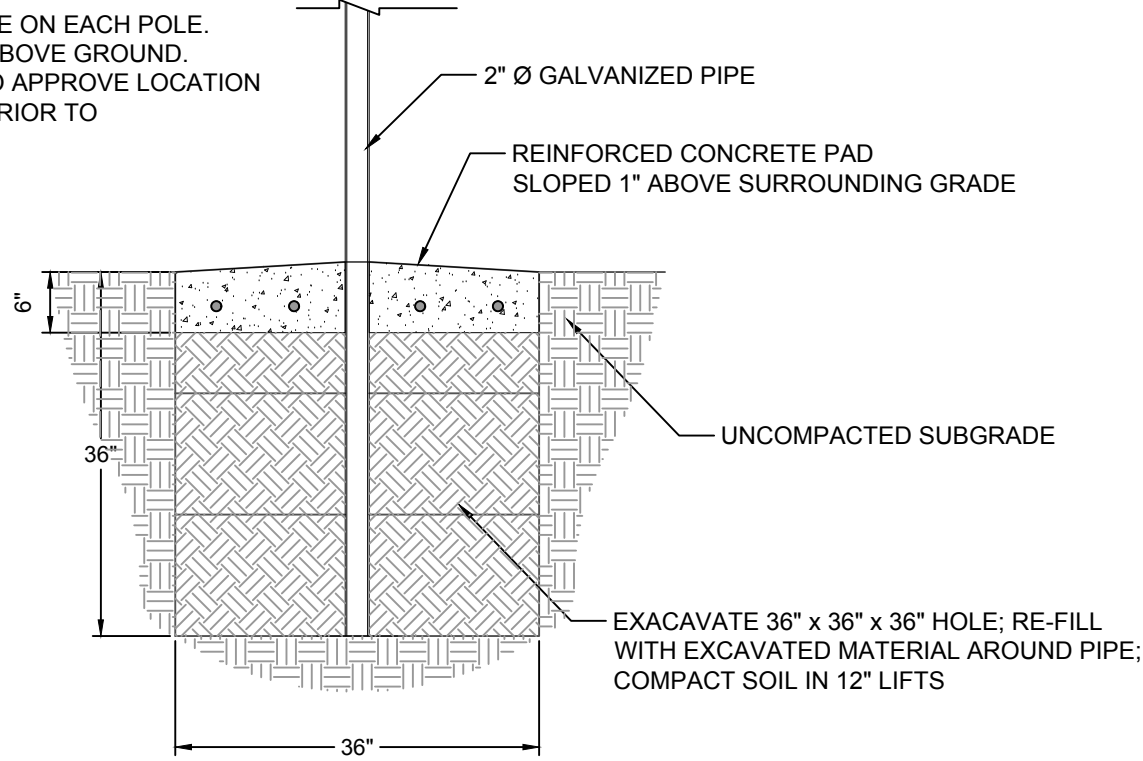


WASTEWATER TREATMENT PLANT
WETLANDS
STORM LAKE, BUENA VISTA COUNTY,
IOWA

DETAIL SHEET 05

SHEET 43 OF 46 SHEETS

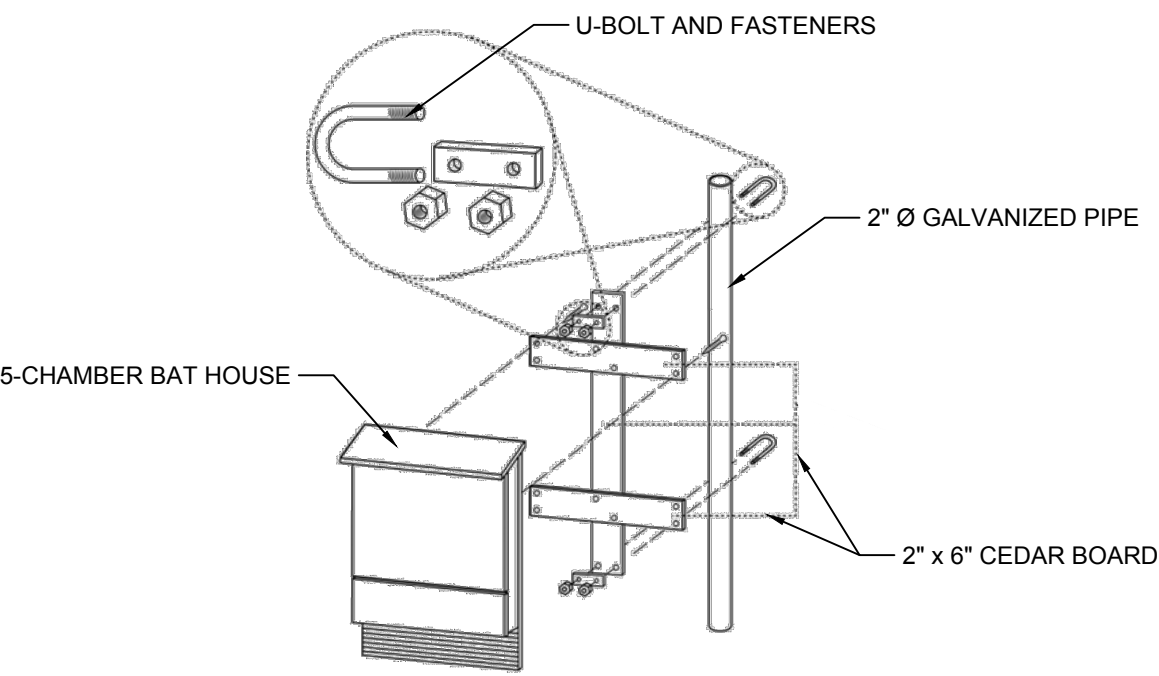
BAT HOUSE NOTES:
1. MOUNT ONE BAT HOUSE ON EACH POLE.
2. BAT HOUSE TO BE 17' ABOVE GROUND.
3. PROJECT ENGINEER TO APPROVE LOCATION OF EACH BAT HOUSE PRIOR TO INSTALLATION.



01
44

BAT HOUSE POLE INSTALLATION DETAIL

*NOT TO SCALE



02
44

BAT HOUSE MOUNTING DETAIL

*NOT TO SCALE

Plot Date: 02/04/2019
Drawing Name: X:\clients_municipal\01112_storm_lake_la\0019_wastewater_treatment_facility_pond09_dms_project\dwg\1112-19_DETAIL DRAWINGS.dwg
Xrefs: 1112-20_Street Section

6			
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4	02/01/2019	BR	100% FINAL SUBMITAL
3	07/03/2018	BR	90% PRELIMINARY SUBMITTAL
2	01/05/2018	BR	60% PRELIMINARY SUBMITTAL
1	03/17/2017	BR	30% PRELIMINARY SUBMITTAL
NO	DATE	BY	REVISION



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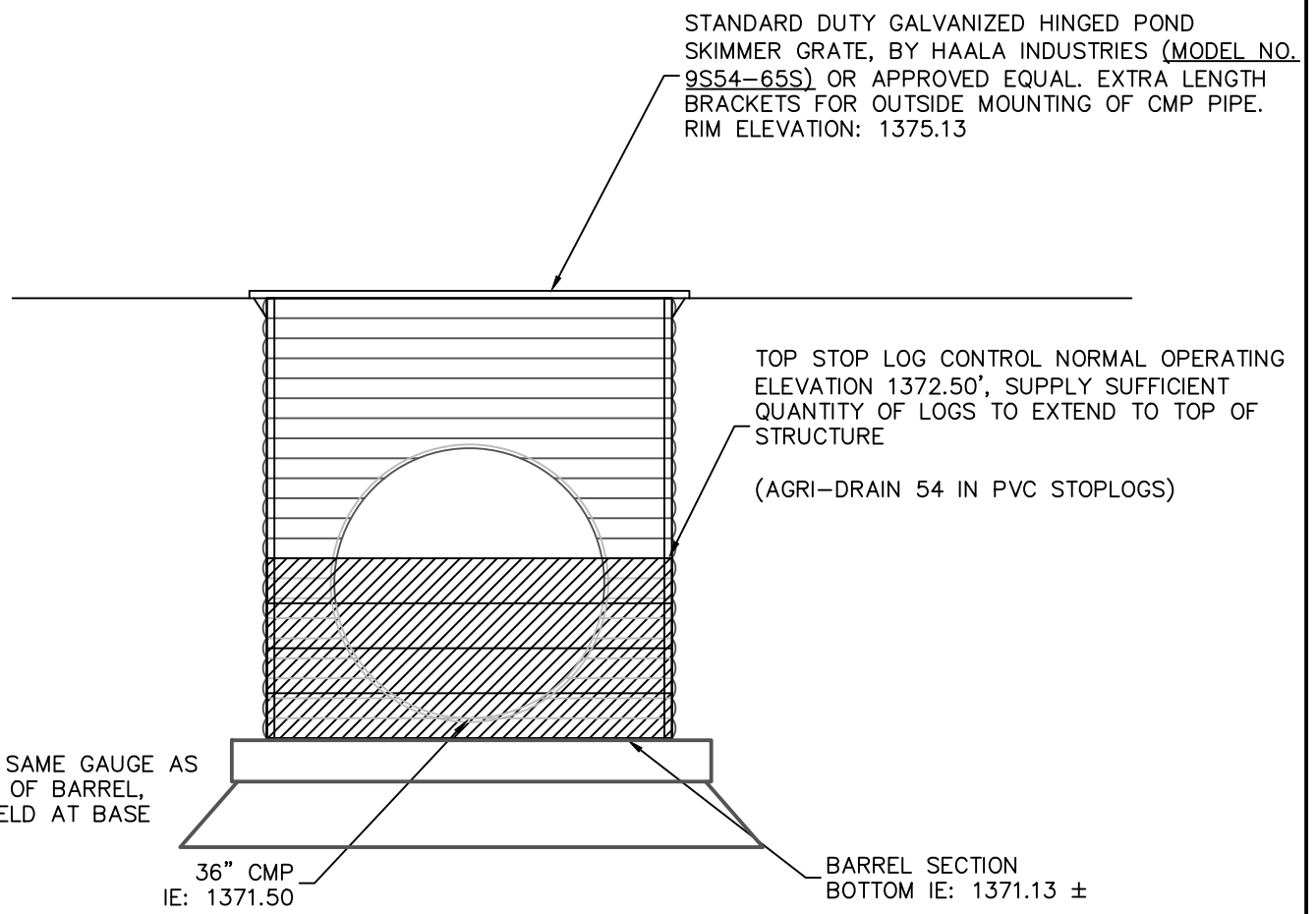
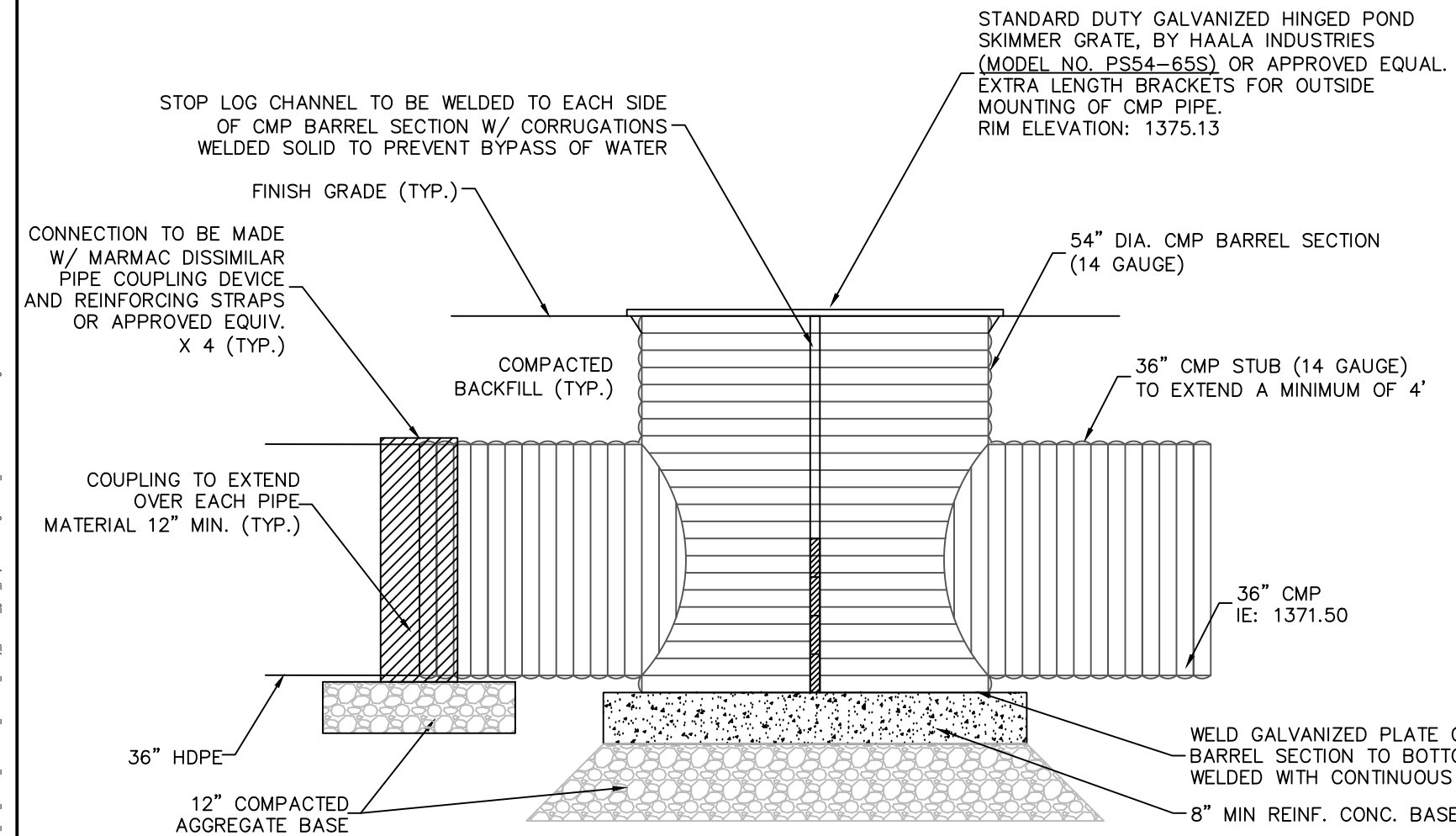
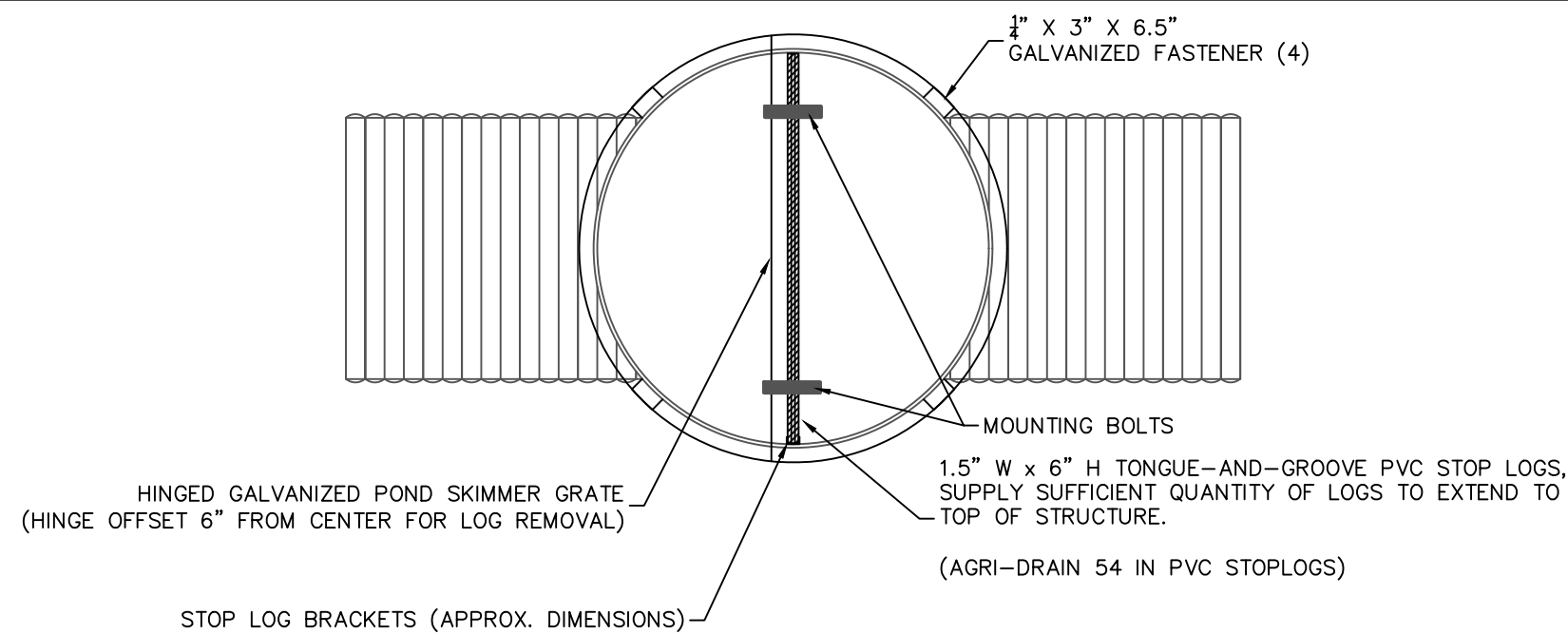


WASTEWATER TREATMENT PLANT
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DETAIL SHEET 06

SHEET 44 OF 46 SHEETS



Plot Date: 02/04/2019
 Drawing Name: X:\clients_municipal\112_storm_lake_la0016_wastewater_treatment_facility_pond09_dms_project\dwg\112-19_DETAIL DRAWINGS.dwg
 Xrefs: 112-20_Street Section

6			
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4	02/01/2019	BR	100% FINAL SUBMITAL
3	07/03/2018	BR	90% PRELIMINARY SUBMITTAL
2	01/05/2018	BR	60% PRELIMINARY SUBMITTAL
1	03/17/2017	BR	30% PRELIMINARY SUBMITTAL
NO	DATE	BY	REVISION

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SUBMISSION DATE: 10/25/2017
DESIGN BY: DRL
DRAWN BY: BR
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WASTEWATER TREATMENT PLANT
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 STATE PROJECT NO. --- CITY PROJECT NO. ---

DETAIL SHEET 07
 SHEET 45 OF 46 SHEETS

Description: IA CP25 Standard Mix
Seeding Rate: 5.9 lb/acre (40.1 seeds/square foot)
Notes: This mix was developed using the IA NRCS Calculator from March 16, 2018.

Common Name	Scientific Name	% of Mix	Seeds/ft ²	Total lb
Grasses				
Big Bluestem	Andropogon gerardii	22.03%	4.8	1.300 PLS lb
Sideoats Grama	Bouteloua curtipendula	8.47%	1.1	0.500 PLS lb
Canada Wild Rye	Elymus canadensis	4.24%	0.5	0.250 PLS lb
June Grass	Koeleria cristata	1.36%	5.9	0.080 PLS lb
Switchgrass	Panicum virgatum	12.71%	3.9	0.750 PLS lb
Fowl Bluegrass	Poa palustris	1.36%	3.8	0.080 PLS lb
Little Bluestem	Schizachyrium scoparium	13.56%	4.4	0.800 PLS lb
Indiangrass	Sorghastrum nutans	20.34%	5.3	1.200 PLS lb
Rough Dropseed	Sporobolus aspera	0.68%	0.4	0.040 PLS lb
Forbs				
Western Yarrow	Achillea millefolium	0.76%	2.9	0.045 PLS lb
Common Milkweed	Asclepias syriaca	0.34%	0.0	0.020 PLS lb
Canada Milk Vetch	Astragalus canadensis	2.54%	0.9	0.150 PLS lb
Partridge Pea	Chamaecrista fasciculata	1.69%	0.1	0.100 PLS lb
Purple Prairie Clover	Dalea purpurea	3.39%	1.3	0.200 PLS lb
Illinois Bundle Flower	Desmanthus illinoensis	3.05%	0.3	0.180 PLS lb
Showy Tick Trefoil	Desmodium canadense	0.17%	0.0	0.010 PLS lb
Ox-eye Sunflower	Heliopsis helianthoides	0.51%	0.1	0.030 PLS lb
Prairie Blazingstar	Liatris pycnostachya	0.17%	0.0	0.010 PLS lb
Wild Bergamot	Monarda fistulosa	0.85%	1.3	0.050 PLS lb
Prairie Cinquefoil	Potentilla arguta	0.17%	0.8	0.010 PLS lb
Black-eyed Susan	Rudbeckia hirta	0.93%	1.9	0.055 PLS lb
Hoary Vervain	Verbena stricta	0.34%	0.2	0.020 PLS lb
Golden Alexanders	Zizia aurea	0.34%	0.1	0.020 PLS lb

Description: IA CP23 Wet Mix
Seeding Rate: 4.07 lb/acre (40.1 seeds/square foot)
Notes: This mix was developed using the IA NRCS Calculator from March 16, 2018.

Common Name	Scientific Name	% of Mix	Seeds/ft ²	Total lb
Grasses				
Big Bluestem	Andropogon gerardii	44.23%	6.6	1.8000 PLS lb
Fringed Brome	Bromus ciliatus	46.68%	7.0	1.9000 PLS lb
Porcupine Sedge	Carex hystericina	0.74%	0.3	0.0300 PLS lb
Pointed-broom Sedge	Carex scoparia	1.23%	1.5	0.0500 PLS lb
Brown Fox Sedge	Carex vulpinoidea	0.98%	1.5	0.0400 PLS lb
Fowl Manna Grass	Glyceria striata	0.25%	0.6	0.0100 PLS lb
Path Rush	Juncus tenuis	0.25%	3.7	0.0100 PLS lb
Fowl Bluegrass	Poa palustris	3.69%	7.2	0.1500 PLS lb
Green Bulrush	Scirpus atrovirens	0.25%	1.7	0.0100 PLS lb
Forbs				
Water Plantain	Alisma subcordatum	0.12%	0.1	0.0050 PLS lb
Boneset	Eupatorium perfoliatum	0.12%	0.3	0.0050 PLS lb
Great St. John's Wort	Hypericum pyramidatum	0.74%	2.1	0.0300 PLS lb
Great Blue Lobelia	Lobelia siphilitica	0.25%	1.8	0.0100 PLS lb
Monkey Flower	Mimulus ringens	0.11%	3.8	0.0045 PLS lb
Blue Vervain	Verbena hastata	0.25%	0.3	0.0100 PLS lb
Culver's Root	Veronicastrum virginicum	0.14%	1.6	0.0055 PLS lb

Table 9010.08: Type 3 Seed Mixture

Common Name	Application Rate lb/acre
Big bluestem*	3 PLS
Grain rye	40
Indiangrass*	4 PLS
Little bluestem*	3 PLS
Oats	16
Sideoats grama*	5 PLS
Switchgrass*	1 PLS

* Furnish seed certified as Source Identified Class (Yellow Tag) Source G0-Iowa.

Plot Date: 02/04/2019
Drawing Name: X:\clients_municipal\01112_storm_lake_ia\0010_wastewater_treatment_facility_pond09_dms_projectname.dwg\1112-10_DETAIL DRAWINGS.dwg
Xrefs: 1112-20_Street Section

6			
5			
4	02/01/2019	BR	100% FINAL SUBMITAL
3	07/03/2018	BR	90% PRELIMINARY SUBMITTAL
2	01/05/2018	BR	60% PRELIMINARY SUBMITTAL
1	03/17/2017	BR	30% PRELIMINARY SUBMITTAL
NO	DATE	BY	REVISION

SUBMISSION DATE: 10/25/2017	
DESIGN BY BH	DRAWN BY BR
EOR PROJECT NO. 01112-0019	



**Emmons & Olivier
Resources, Inc.**
7030 6th Street North
Oakdale, MN 55128
Tele: 651.770.8448
www.eorinc.com



WASTEWATER TREATMENT PLANT WETLANDS STORM LAKE, BUENA VISTA COUNTY, IOWA	
STATE PROJECT NO. ---	CITY PROJECT NO. ---

DETAIL SHEET 08
SHEET 46 OF 46 SHEETS

Staff Summary

10/21/2019

Agenda Item # 9.



City of Storm Lake
PO Box 1086
Storm Lake, IA 50588
p (712) 732-8000
f (712) 732-4114

REPORT TO: Honorable Mayor and City Council

FROM: Mayra Martinez, City Clerk

SUBJECT: **City Council Requested Items**

BACKGROUND: Future City Council Work Sessions:
 Unscheduled Items:
 1. None at this time
 Two Council members must concur for item to be considered in
 any future council meeting.

 Scheduled:
 1. None at this time

FISCAL IMPACT: No Fiscal Impact at this time.

RECOMMENDATION: Concurrence for each item to be considered for a specified City Council Meeting work session or deny work session consideration for the following items:
 1. none at this time

Staff Summary

10/21/2019

Agenda Item # 10.



City of Storm Lake
PO Box 1086
Storm Lake, IA 50588
p (712) 732-8000
f (712) 732-4114

REPORT TO: Honorable Mayor and City Council

FROM: Keri Navratil, City Manager

SUBJECT: **Motion to Recess City Council Meeting and Reconvene at the Lighthouse Tour**

BACKGROUND: Per the request of City Council, a tour snack/vending area of the lighthouse will occur to determine if it is feasible to convert the space into a rentable shelter space.

FISCAL IMPACT: N/A

RECOMMENDATION: **Motion to Recess City Council Meeting and Reconvene at the Lighthouse Tour**