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ILC RESOURCES

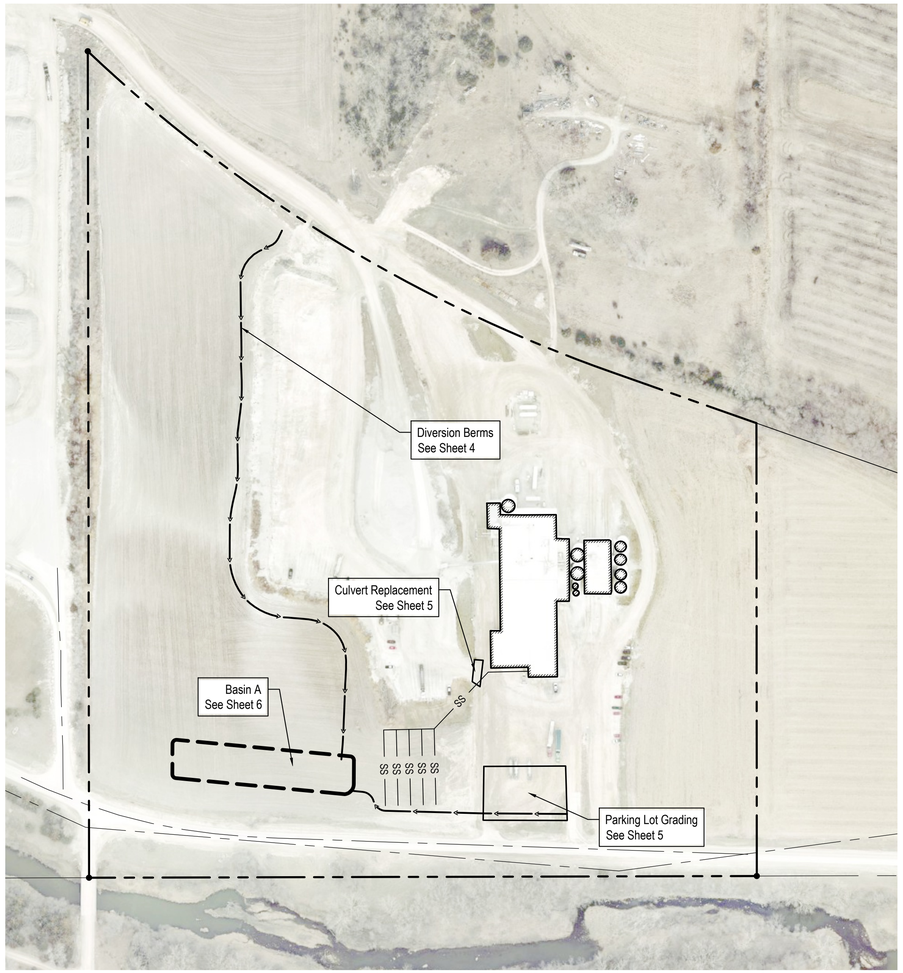
DIVERSIONS & SETTLING BASINS - SECTION I

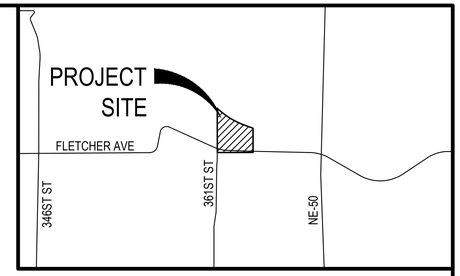
Located in the SW 1/4, of Section 33, Township 11N, Range 11E, of the 6th P.M.

CASS COUNTY, NEBRASKA

APPROXIMATE BID QUANTITIES

ITEM	DESCRIPTION	QUANTITY	UNIT	REV QTY	
1	INSTALL SILT FENCE	~~743~~	LF	425	1
2	REMOVE CULVERT	1	EA	1	
3	EXCAVATION ON-SITE - ESTABLISHED QUANTITY	~~7,913~~	CY	5,704	1
4	INSTALL SWITCHGRASS SEEDING & S150 MATTING	~~1,226~~	SY	812	
5	INSTALL WETLAND MIX SEEDING & S150 MATTING	~~5,570~~	SY	3,652	
6	INSTALL NATIVE GRASS MIX & S150 MATTING	~~9,556~~	SY	7,234	
7	REMOVE, STOCKPILE, & RESPREAD GRAVEL SURFACING	2,043	SY	2,043	
8	CONSTRUCT 12" CMP	~~631~~	LF	511	1
9	CONSTRUCT 96" CMP RISER & BASE	2	EA	2	
10	CONSTRUCT 60" CMP RISER & BASE	~~1~~	EA	0	1
11	INSTALL NATIVE GRASS MIX & VMAX 350 MATTING	~~424~~	SY	381	





VICINITY MAP

150 0 150
1 inch = 150 ft.

INDEX OF SHEETS

Sheet Number	Sheet Title
1	COVER
2	GENERAL NOTES AND DETAILS
3	TOPOGRAPHIC SURVEY
4	DIVERSION BERM PLAN
5	PARKING LOT GRADING & CULVERT REPLACEMENT
6	BASIN A
~~8~~ 7	~~BASIN B~~
~~8~~ 7	DRAINAGE MAP

BENCHMARK:

BENCHMARK #1: CHISELED "X" ON TOP OF BOLLARD FOR THE GATE EAST OF THE FURTHEST WEST DRIVE. BOOK L-120, PAGE 50.
ELEV: 1114.945'

BENCHMARK #2: CHISELED "X" ON TOP OF NORTH GATE STUD WEST OF 2ND DRIVE FROM THE EAST. BOOK L-120, PAGE 50.
ELEV: 1114.310'

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ILC RESOURCES
DIVERSIONS & SETTLING BASINS - SECTION I
CASS COUNTY, NEBRASKA

COVER

JOSEPH M. BARATTA E-19810 PROFESSIONAL ENGINEER STATE OF NEBRASKA
8/24/26

Revisions

	Date	Description
1	8/24/2026	Basin B removed and notes updated (Sheets 2, 4, & 7)

Proj No.: P2026.045.001
Date: ENTER DATE
Designed By: JMB
Drawn By: ESN
Scale: AS SHOWN
Sheet: 1 of 7

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GENERAL NOTES

1. All project procedures, materials, bonds and reserves shall conform to the NDOT Standard Plans. It is the responsibility of the CONTRACTOR to be aware of the contents of the Standard Specifications and Plans. The NDOT Standard Plans can be fount at: https://dot.nebraska.gov/media/6645/standard.pdf
2. Barricades shall conform to the "Manual on Uniform Traffic Control Devices", and any additions thereto. The aforementioned publication can be found at https://mutcd.fhwa.dot.gov/pdfs/2009r1r2/pdf_index.htm
3. The time limit to complete the work is listed on the Proposal in the Specifications.
4. The INSPECTOR shall certify that the CONTRACTOR's work adheres to and meets all construction specifications and plans; maintenance, safety, workmanship, and testing requirements; and applicable regulatory compliance issues.
5. The CONTRACTOR and INSPECTOR shall ensure all impacted government agencies (Cass County, State of Nebraska, Corps of Engineers, United States Federal Government, etc.) have granted all applicable permission to proceed with construction prior to mobilization. Furthermore, 48 hours prior to the commencement of construction, the CONTRACTOR shall notify all concerned parties that work will be proceeding within each impacted government agency jurisdictional boundary.

1

6. The INSPECTOR shall notify Cass County personnel 48 hours prior to all preconstruction meetings and 48 hours prior to the start of any construction.

7. The CONTRACTOR shall notify all impacted utility companies via One Call (dial 811 or 800-331-5666) 48 hours before work is started to verify utility locations.
8. The existence and location of any overhead or underground utility lines, pipes, or structures shown on these plans are obtained by a research of the available records. Existing utilities are approximate and for record purposes. Existing utilities are located on plans only for the convenience of the CONTRACTOR. Existing utility service laterals may not be shown on the plans. The CONTRACTOR shall locate all underground and overhead interference's which may affect his operation during construction and shall take all necessary precautions to avoid damage the same.
9. The CONTRACTOR shall take all precautionary measures necessary to protect existing utility lines, structures and street improvements which are to remain in place, from damage, and all such improvements or structures damaged by the CONTRACTOR'S operations shall be repaired or replaced satisfactory to the INSPECTOR and owning utility company at the expense of the CONTRACTOR.
10. All construction shall be as shown on these plans. Any revisions shall have the prior written approval of the DESIGNER.
11. CONTRACTOR shall adjust all new and existing inlets, valve boxes, manhole rims, and sewer clean outs, etc. to finish grade as applicable whether or not they are shown on the plans.
12. The CONTRACTOR shall adhere to good housekeeping best management practices at all times. Good housekeeping best management practices focus on keeping the work site clean and orderly while handling materials and waste in a manner that eliminates the potential for pollutant runoff.
13. The construction documents (e.g., Contract, Bond, Insurance, Specifications, and Construction Plans) are essential and a requirement in one part is as binding as though occurring in all. Thus, the construction documents are complementary in nature. The documents describe and provide the complete construction project. The CONTRACTOR may not take advantage of any apparent construction project errors or omissions. The CONTRACTOR shall notify the INSPECTOR promptly of any omissions or errors. In the case of a discrepancy between parts of the construction documents, the most stringent construction methodology shall rule.
14. The CONTRACTOR shall be charged for replacing construction stakes and lot pins which are destroyed by his operations.
15. The CONTRACTOR is hereby referred to Subsection 100.03-E of the City of Omaha's Standard Specifications for Public Works Construction, 2024 Edition ("Standard Specifications") relative to cleaning of the work area. The final estimate will not be processed until the Contractor has satisfactorily cleaned and flushed the pavement slab of all rubbish, excess material, mud and debris, and all parts of the work area have been left in a neat and presentable manner. All disturbed right-of-way areas shall be restored to a level and smooth section prior to acceptance of the work. The City of Omaha 2024 Standard Specifications can be found at: https://drive.google.com/file/d/1ChZo0F-CHVJD32JsHjDTh8qFwiBE_Jpl/view
16. The CONTRACTOR shall place silt fence as shown and as directed by the Engineer to prevent sediment from leaving the construction site.
17. Coordinates are referenced to Cass County Low Distortion Coordinate System.
18. Concrete for streets, sidewalks, drainage structures and other structures shall be NDOT 47B - 3500 psi, as per latest NDOT specifications. Class C Fly Ash is disallowed. Type I PF cement shall be used for all concrete.

STORM SEWER CONSTRUCTION NOTES

1. PCC manholes, inlets, appurtenances, and special structures meeting all City of Ashland's Specifications shall be used for storm sewer construction.
2. HDPE pipe shall be dual wall pipe with smooth interior conforming to AASHTO M-252/M-294 and water tight joints conforming to ASTM D-3212. HDPE pipe shall only be used within the private construction boundaries of this project. HDPE is not allowed to be installed within the public R.O.W.
3. The CONTRACTOR shall ensure all storm sewer pipe supplied for construction has been certified by the American Concrete Pipe Association (ACPA). All pipe must display the Q-CAST symbol to verify the manufacturer has met the ACPA's certification program. Visual inspections for defects shall continue to take place on the site.
4. Joints for storm sewer pipes are required to have a fabricated gasket or bitumastic sealant.
5. The storm sewer system (pipe, manholes, inlets, special structures, etc.) shall be placed, compacted, and backfilled in accordance with the Standard Specifications.
6. All storm sewer pipe shall be bedded with rock bedding in accordance with the City of Ashland Specifications. Soil bedding is not acceptable. The cost of the crushed rock for pipe bedding shall be subsidiary to the cost of the pipe.
7. Additional crushed rock bedding for the sewers shall be placed at locations where unstable trench bottom conditions are encountered in accordance with the City of Ashland's Specifications, as approved by the Engineer.
8. All inlet structures will be located in the field by the Engineer.
9. Manholes shall be NDOT type manholes, including installation of external frame seals for all manholes within paving. Flat top manholes shall be installed to provide a minimum of 12" between the bottom of slab and the top of the manhole structure for compaction of paving subgrade.
10. The CONTRACTOR shall ensure all storm sewer lines, manholes, and inlets are cleaned of debris (leaves, stone, dirt, construction material, etc.) prior to the APPLICANT taking ownership.
11. All public storm sewers are required to be video inspected. Video inspection shall be paid by the Owner.
12. Curb inlet covers shall have the text "NO DUMPING, DRAINS TO STREAM" imprinted into concrete at a depth of $\frac{1}{4}$" per NDOT Standard Plan 4430 0 R13 Sheet 2 of 2.

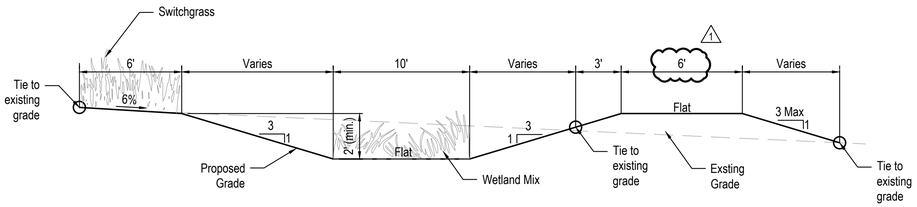
GRADING GENERAL NOTES

1. The CONTRACTOR shall maintain positive drainage in existing road ditches and culverts draining into the project area..
2. Payment for earthwork shall be based upon the bid Item "EXCAVATION ON-SITE (ESTABLISHED QUANTITY)". This quantity is the fixed plan cut volume determined by a comparison of the proposed grade surface to the existing grade surface. There will be no deviation from this pay quantity without a written change order resulting from a plan revision or field change. Work shall include excavation, haul, placing and compacting earthwork necessary for a completed project for this fixed established quantity.
3. Fill placed on a slope steeper than a 5H:1V shall be benched before placing fill, with a maximum riser height on the order of 2', separated by horizontal steps that are wide enough to accommodate compaction equipment.
4. All fill and backfill shall be placed in lifts of 9" or less in loose thickness. All fill shall be compacted to a minimum 95% of the maximum dry density at a moisture content 3% below to 4% above optimum as determined by ASTM D698 (Standard Proctor) or as recommended by the Geotechnical Engineer.
5. Fill and Backfill shall be inspected and tested periodically at the discretion of the ENGINEER for adherence to material, compaction, and moisture specifications.
   a. Fill or backfill failing to meet compaction and moisture content specifications shall be reworked and retested at the CONTRACTOR'S's expense.
   b. Material deemed unsuitable by the ENGINEER shall be removed and replaced.
   c. Reimbursement for removal of unsuitable materials will be made at the contract unit price for, "EXCAVATION ON-SITE (ESTABLISHED QUANTITY)".
10. Fill and backfill material shall be impervious material (clay/silt) free of frost, snow, ice, concrete, brick, stone, refuse, cinder ashes, organic matter, or any other material deemed unsuitable by the ENGINEER.
11. The CONTRACTOR shall monitor perimeter silt fencing and install additional silt fencing if necessary or as directed by the ENGINEER. Payment shall be made at the unit price for "Install Silt Fence".
12. No tree removal shall occur between April 1 and July 15, unless a migratory bird inventory has been completed and no nesting of migratory birds is found. Tree removal between June 1 and July 31 shall further require a bat roosting inventory.

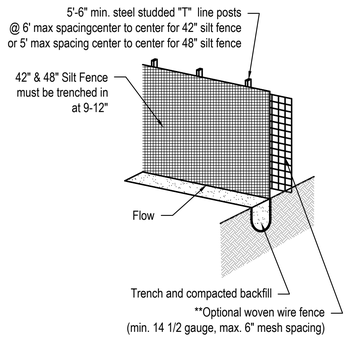
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13. Areas to receive erosion control matting shall be seeded in accordance with United Seeds Native Prairie Grass Mix.

14. The CONTRACTOR shall comply with all OSHA regulations.
15. Where open excavations are not backfilled within 24 hours, the CONTRACTOR shall encircle the open area by a standard snow fence.
16. All rubbish, unsuitable material, debris, equipment, etc., resulting from demolition work shall be disposed of properly and in a legal manner.
17. The CONTRACTOR shall control dust during demolition and removals.
18. All demolition, removals, clearing and grubbing shall be paid for in a lump sum at the bid price for "CLEARING AND GRUBBING - GENERAL".



DIVERSION BERM
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NOTES:

1. Acceptable silt fence specifications- AOS (#20 - 50 Sieve), Water Flow Rate (50 gpm/ sq. ft. - 125 gpm/ sq.ft), Tensile Strength (Grab) - (Min. 120 Warp or greater and Elongation (5-25%)
2. On each new run of silt fence spray paint the beginning of the run with 0+00 and spray paint the end with the date of installation and LF of the run
3. Silt fence should be securely fastened to each steel support post or to woven wire which is in turn attached to the steel fence posts. A minimum of 3 ties are required for each post. To be located in the top 12"of the silt fence.
4. Steel posts which support the silt fence shall be installed on a slight angle toward the anticipated runoff source. (Incline all posts 20° Max. from vertical, toward flow)
5. Silt fence shall be trenched in with a silt fence plow so that the downslope face of the trench is flat and perpendicular to the line of flow
6. Silt fence shall be removed when it has served its usefulness so as not to block or impede storm flow or drainage
7. Sediment trapped by this practice shall be uniformly distributed on the source area prior to topsoiling.

SILT FENCE
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ILC RESOURCES

DIVERSIONS & SETTLING BASINS - SECTION I

CASS COUNTY, NEBRASKA

GENERAL NOTES AND DETAILS

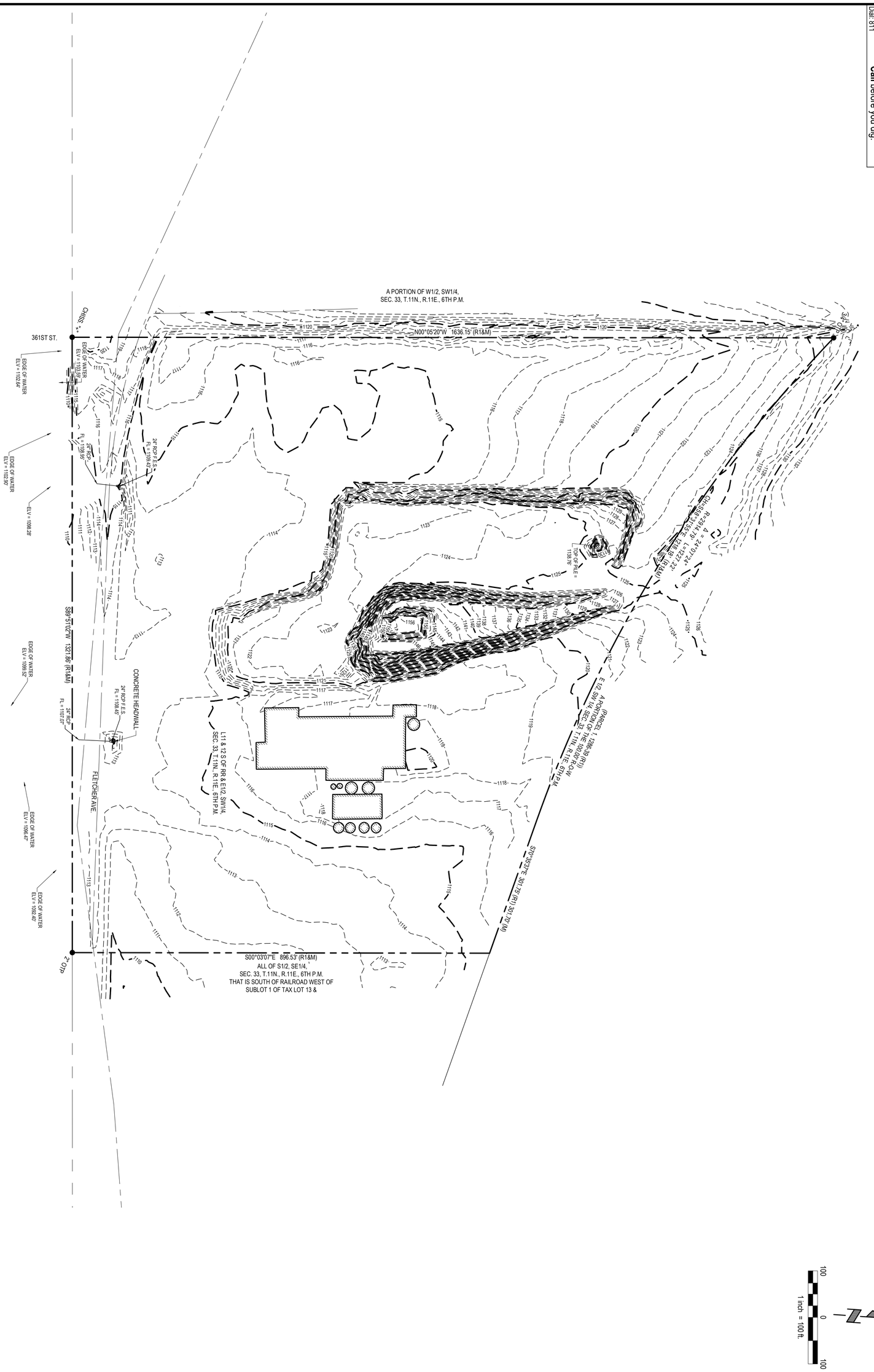
JOSEPH M. BARATTA E-19810
8/24/26
PROFESSIONAL ENGINEER
STATE OF NEBRASKA

Revisions			
	Description	Date	
1	Notes updated	8/24/2026	

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Date: ENTER DATE
Designed By: JMB
Drawn By: ESN
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Sheet: 2 of 7

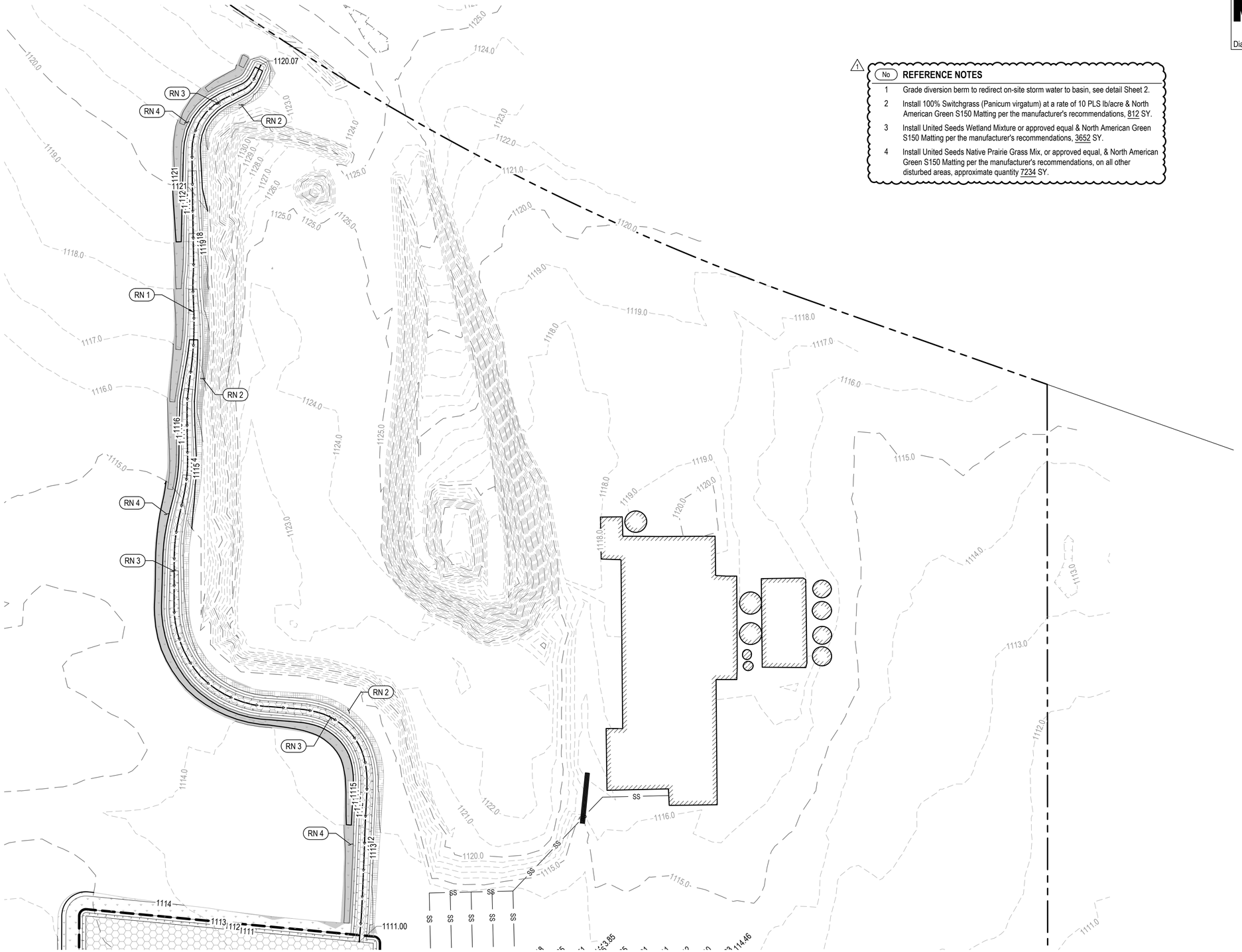
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No	REFERENCE NOTES
1	Grade diversion berm to redirect on-site storm water to basin, see detail Sheet 2.
2	Install 100% Switchgrass (Panicum virgatum) at a rate of 10 PLS lb/acre & North American Green S150 Matting per the manufacturer's recommendations, 812 SY.
3	Install United Seeds Wetland Mixture or approved equal & North American Green S150 Matting per the manufacturer's recommendations, 3652 SY.
4	Install United Seeds Native Prairie Grass Mix, or approved equal, & North American Green S150 Matting per the manufacturer's recommendations, on all other disturbed areas, approximate quantity 7234 SY.

60 0 60
1 inch = 60 ft.

LEGEND

- Power Pole
- Guy Wire
- Light Pole
- Fire Hydrant
- Utility Valve (Water)
- Curb Inlet
- Manhole
- Fence Line
- Gas Line
- Water Line
- Power Line (Overhead)
- Existing Contours
- Proposed Contours
- Diversion Berm
- Sediment Basin Perimeter
- Fill Areas
- Native Prairie Grass Mix & Matting
- Switchgrass & Matting
- Wetland Mix & Matting

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ILC RESOURCES

DIVERSIONS & SETTLING BASINS - SECTION I

CASS COUNTY, NEBRASKA

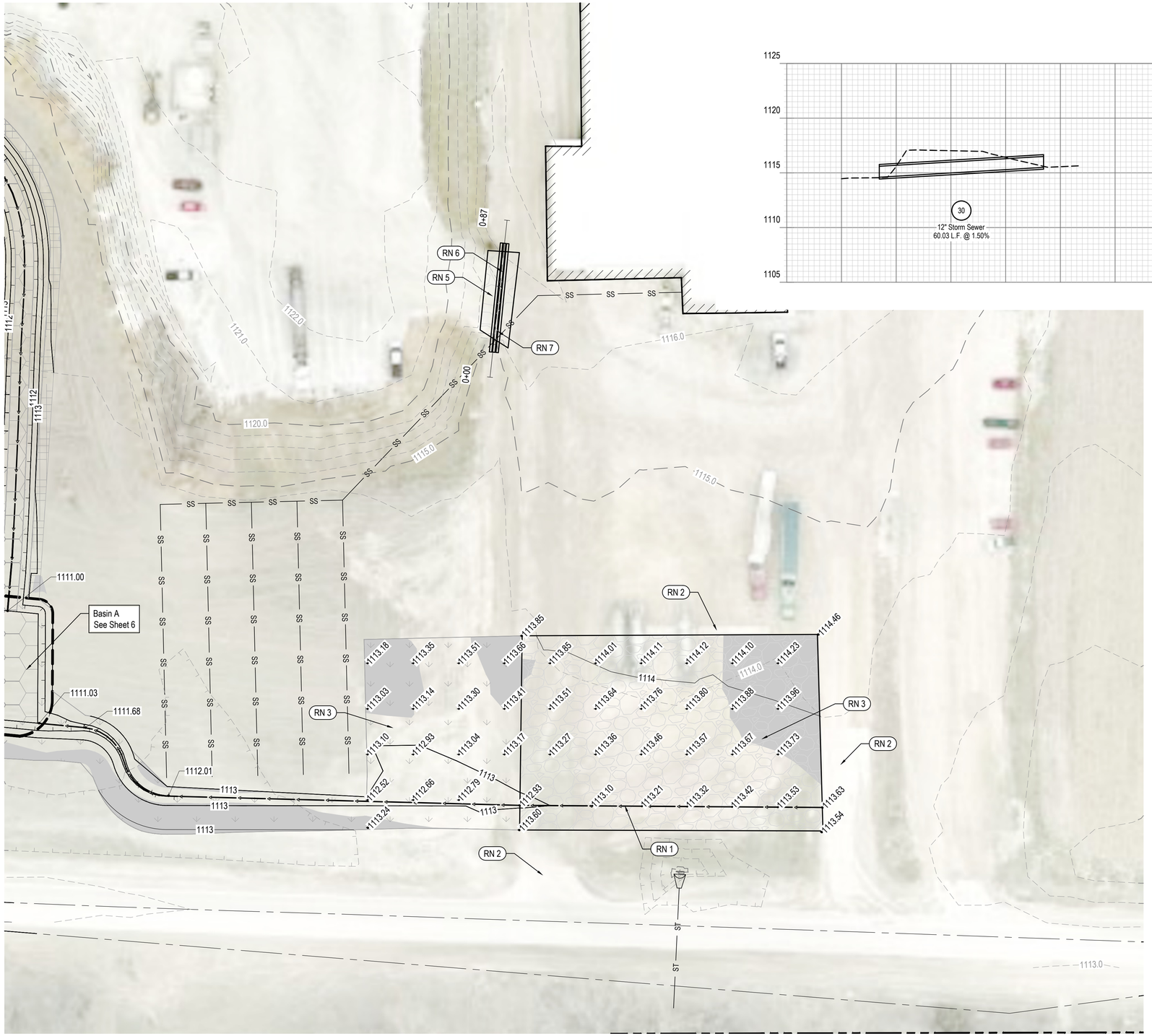
DIVERSION BERM PLAN

PROFESSIONAL ENGINEER
JOSEPH M. BARATTA
E-19810
8/24/26
STATE OF NEBRASKA

Revisions		
	Date	Description
1	8/24/2026	Basin B removed

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30 0 30
1 inch = 30 ft.

LEGEND

- Power Pole
- Guy Wire
- Light Pole
- Fire Hydrant
- Utility Valve (Water)
- Curb Inlet
- Manhole
- X — X — Fence Line
- G — G — Gas Line
- W — W — Water Line
- OHP — OHP — Power Line (Overhead)
- 1120 — Existing Contours
- 1170 — Proposed Contours
- Diversion Berm
- Sediment Basin Perimeter
- Fill Areas
- Native Prairie Grass Mix & Matting

No	REFERENCE NOTES
1	Grade inverted crown to redirect parking lot runoff to basin.
2	Existing pavement to remain
3	Remove, Stockpile, and Respread Gravel Surfacing, 1953 SY.
4	Install United Seeds Native Prairie Grass Mix, or approved equal, & North American Green S150 Matting per the manufacturer's recommendations, on all disturbed areas outside of parking lot.
5	Remove, Stockpile, and Respread Gravel Surfacing, 90 SY.
6	Remove Culvert, 1 EA.
7	Construct Triple 12" CMP Culvert, 60 LF. (180 LF total)

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CASS COUNTY, NEBRASKA

PARKING LOT GRADING & CULVERT REPLACEMENT

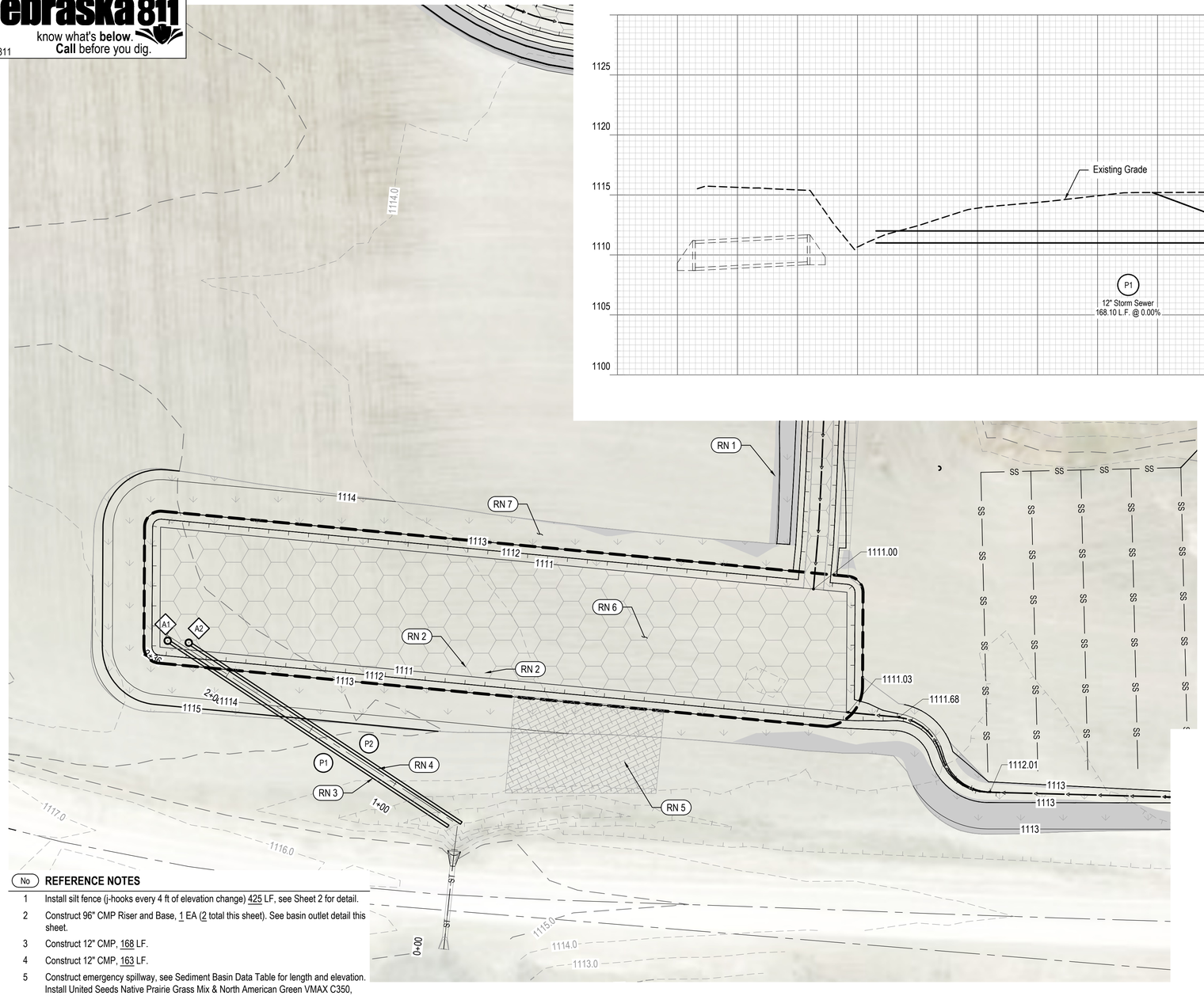
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1 inch = 30 ft.

LEGEND

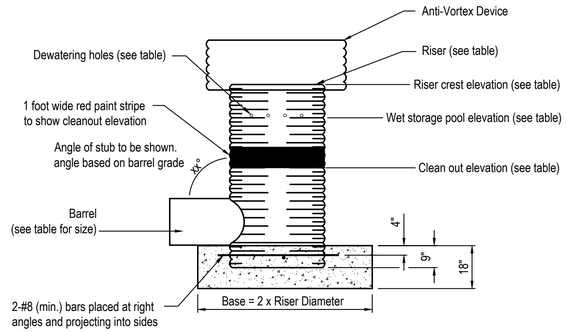
- Power Pole
- Guy Wire
- Light Pole
- Fire Hydrant
- Utility Valve (Water)
- Curb Inlet
- Manhole
- Fence Line
- Gas Line
- Water Line
- Power Line (Overhead)
- Existing Contours
- Proposed Contours
- Diversion Berm
- Silt Fence
- Sediment Basin Perimeter
- Erosion Control Matting
- Fill Areas
- Seed and Mat Disturbed Area
- Seed and Mat - Wetland Mix per Manufacturer's Recommendation.

REFERENCE NOTES

No	
1	Install silt fence (j-hooks every 4 ft of elevation change) 425 LF, see Sheet 2 for detail.
2	Construct 96" CMP Riser and Base, 1 EA (2 total this sheet). See basin outlet detail this sheet.
3	Construct 12" CMP, 168 LF.
4	Construct 12" CMP, 163 LF.
5	Construct emergency spillway, see Sediment Basin Data Table for length and elevation. Install United Seeds Native Prairie Grass Mix & North American Green VMAX C350, 381 SY, per manufacturer's recommendation.
6	Seed and mat bottom of basin with Wetland Mix. Planting method shall be per manufacturer's recommendation. Matting shall be North American Green S150, or approved equal.
7	Install United Seeds Native Prairie Grass Mix & North American Green S150 Matting per manufacturer's recommendation.

SEDIMENT BASIN DATA TABLE

Basin No.	Drainage Area (Ac.)	2-Year Storm Event Discharge (cfs)	10-Year Storm Event Event (cfs)	Wet Storage Provided (CY)	Dry Storage Provided (CY)	Top of Berm Elevation (ft)	Highwater Elevation (ft)	2-Year Storm Elevation (ft)	Emergency Spillway Elevation (ft)	Throat/Riser Crest Elevation (ft)	Wet Storage Pool Elevation (ft)	Clean Out Elevation (ft)	Bottom of Basin Elevation (ft)	Riser Diameter (in)	Riser Dewatering Holes Diameter (in)	Number of Dewatering Holes	Barrel Diameter (in)	Barrel Length (ft)	Barrel Inlet Elevation (ft)	Barrel Outlet Elevation (ft)	Emergency Spillway Width (ft)	Barrel Material
A	14.7	36	54	985	1034	1113.00	1113.00	1113.00	1112.80	1112.50	1112.00	1111.55	1111.00	(2) - 96	2	3 (ea.)	(2) - 12	76 (ea.)	1111.00	1111.00	75	CMP



NOTES:

1. Ensure that the concrete fills the bottom of the riser to the invert of the outlet pipe to counter flotation forces and prevent the riser from breaking away from the base.
2. If using aluminum or aluminized pipe risers, the embedded section shall be painted with zinc chromate or approved equivalent.
3. Position the bottom of the dewatering holes at the the "Wet-Storage Pool Elevation" indicated in the Sediment Basin Data Table. **Do not exceed the number of dewatering holes indicated.**

RISER AND BASE DETAIL
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DIVERSIONS & SETTLING BASINS - SECTION I
CASS COUNTY, NEBRASKA

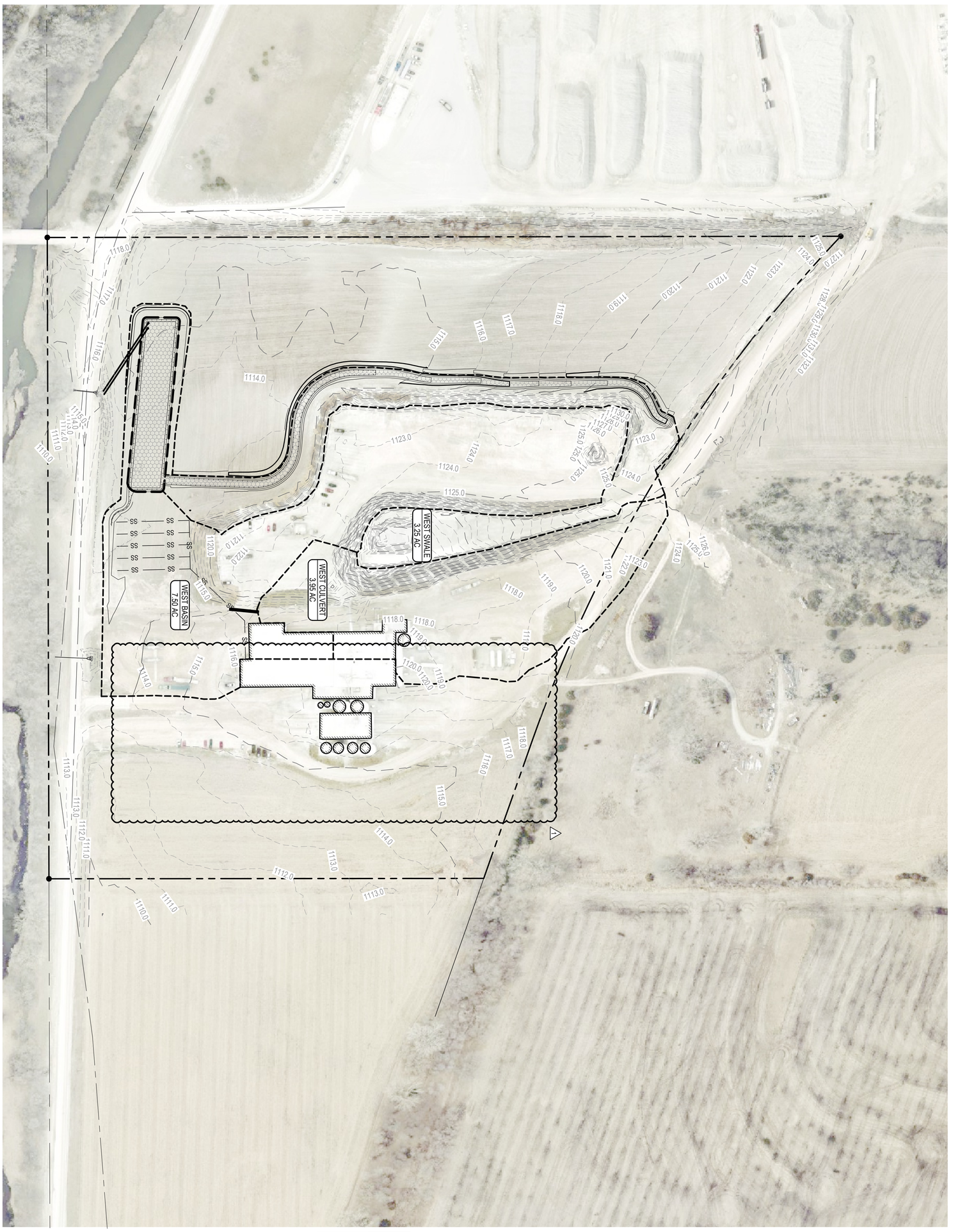
BASIN A

PROFESSIONAL ENGINEER
JOSEPH M. BARATTA
E-19810
8/24/26
STATE OF NEBRASKA

Revisions	Description	Date

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Sheet: 6 of 7

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LEGEND

- Power Pole
- Guy Wire
- Light Pole
- Fire Hydrant
- Utility Valve (Water)
- Curb Inlet
- Manhole
- Fence Line
- Gas Line
- Water Line
- Power Line (Overhead)
- Existing Contours
- Proposed Contours
- Diversion Berm
- Sediment Basin Perimeter
- Drainage Area

1 inch = 100 ft.

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Revisions		
	Date	Description
1	8/24/2026	Basin B removed

PROFESSIONAL ENGINEER — JOSEPH M. BARATTA — E-19810 — STATE OF NEBRASKA — 8/24/26

DRAINAGE MAP

ILC RESOURCES

DIVERSIONS & SETTLING BASINS - SECTION I

CASS COUNTY, NEBRASKA

E & A CONSULTING GROUP, INC. — Engineering Answers

E & A CONSULTING GROUP, INC.
Engineering ● Planning ● Environmental & Field Services
10909 Mill Valley Road, Suite 100 ● Omaha, NE 68154
Phone: 402.895.4700 ● Fax: 402.895.3599
www.eacg.com
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