LOWER PLATTE NORTH NATURAL RESOURCES DISTRICT

REQUEST FOR PROPOSALS

DESIGN-BUILD SERVICES
STORMWATER BIORETENTION BASIN
DEMONSTRATION & EDUCATION PROJECT

Project Location	LPNNRD Office at Lake Wanahoo, Wahoo, Nebraska
Maximum Project Budget	$100,000 - all-inclusive
RFP Issued	November 10, 2026
Pre-Proposal Site Visits	Individual visits by appointment
Proposals Due	January 28, 2027 at 11:00 a.m. CST (public opening at 11:00 a.m.)

1. PROJECT OVERVIEW

The Lower Platte North Natural Resources District (LPNNRD) requests proposals for design-build improvements to the existing stormwater bioretention basin located within the parking area at the LPNNRD office at Lake Wanahoo in Wahoo, Nebraska.

The project will restore the basin's intended drainage and water-quality function and create durable, accessible educational access and observation features, interpretive signage, and native/wetland landscaping. An elevated boardwalk is one possible approach, but is not required. The project is supported in part through a Clean Water Act Section 319 grant. The maximum all-inclusive project budget is $100,000.

2. PROJECT OBJECTIVES

- Restore the bioretention basin to its intended drainage and water-quality function, including removal of accumulated sediment and other corrective measures as necessary.
- Correct erosion at concentrated parking-lot inflows and reduce future sediment movement into the primary bioretention area.
- Provide durable, accessible, low-maintenance educational access and an observation feature for approximately three to five people, with seating where practical. A boardwalk, platform, or at-grade viewing area may be proposed; a crossing of the basin or two access points is not required.
- Provide interpretive signage focused primarily on stormwater runoff, water-quality protection, and the connection to Lake Wanahoo, with secondary emphasis on wetlands, native plants, and pollinators.
- Establish basic-to-moderate native/wetland landscaping, with bald cypress as the primary tree species.
- Complete the entire design-build project within the $100,000 maximum budget.

3. EXISTING CONDITIONS

The basin drains, but not at the intended rate. LPNNRD observes continuous low-volume flow from the system, indicating that the underdrain and downstream outlet are functioning to some degree. Original construction documents identify approximately 63 feet of 4-inch perforated underdrain connected to an existing 12-inch drainage structure and a 12-inch HDPE outlet pipe that runs beneath the parking lot and daylights on the opposite side. The original bioretention detail identifies a target drawdown of 36 hours or less.

LPNNRD previously required corrective work to the bioretention soil installation. The District has since observed sediment deposition and erosion from concentrated parking-lot runoff and suspects accumulated sediment and/or the existing underdrain and media may be contributing to poor drainage. This information is provided as background and is not a definitive determination of cause.

Original plans, bioretention details/specifications, utility plans, construction photographs, and the UNL student concept are included as attachments to this RFP for reference.

4. SCOPE OF WORK

4.1 Basin Drainage, Erosion, and Sediment Management

The selected design-build team shall evaluate existing conditions and restore the basin to its intended drainage function. Work is anticipated to include removal of accumulated sediment and unsuitable material and restoration or replacement of bioretention soil/media where necessary.

The existing underdrain and outlet are known to convey continuous low-volume flow but do not drain the basin quickly enough. The selected team shall evaluate the cause of the slow drainage and restore intended function, with the original plans' target drawdown of 36 hours or less as a performance objective unless an alternative is justified and approved by LPNNRD. The proposer shall describe a practical method for verifying satisfactory restored drainage performance at completion, such as an observed drawdown or other suitable field evaluation. Removal or replacement of the existing underdrain shall be performed only if determined necessary based on observed conditions or testing and approved by LPNNRD. Any reconstructed portions shall generally conform to the original plans and specifications.

The project shall also correct existing erosion and incorporate simple, durable, maintainable sediment pretreatment where appropriate. Examples include stone/aggregate pretreatment areas, sediment traps or forebays, stabilized inflow channels, vegetated filters, or energy dissipation. Sediment-capture areas should allow LPNNRD staff to periodically remove accumulated material without disturbing the primary bioretention area.

4.2 Educational Access and Observation Area

- Provide a durable, low-maintenance, accessible public observation and educational feature that allows visitors to safely view and learn about the stormwater bioretention basin. LPNNRD's preferred concept includes a modest boardwalk or elevated observation platform; however, proposers are encouraged to recommend alternative approaches that provide meaningful educational access while maximizing project value and minimizing long-term maintenance.

- Acceptable concepts may include a short boardwalk, observation platform, accessible paved viewing area, or a combination of these features. A continuous boardwalk across the basin or two access points is not required. The feature should accommodate approximately three to five people and incorporate a bench or other seating feature where practical.
- Use durable materials appropriate for site and moisture conditions, coordinate with utilities and drainage facilities, and preserve reasonable access for basin and landscape maintenance.
- Provide safe, accessible public access and comply with applicable accessibility standards, structural and safety requirements, and building codes as appropriate to the proposed feature.

Proposers should explain the benefits, anticipated service life, maintenance requirements, and approximate cost of their recommended approach. Optional alternative concepts may also be provided for consideration.

4.3 Interpretive Signage and Landscaping

Provide a moderate amount of durable outdoor interpretive signage, anticipated to be approximately two to three panels. Sign panels, graphics, mounting systems, and finishes shall be selected for long-term exterior use and resistance to fading, moisture, corrosion, and vandalism. Sign location and orientation should minimize direct sun exposure and glare where practical while maintaining visibility and accessibility. LPNNRD staff will review and approve final content. Where practical, signage should explain the treatment sequence from parking-lot runoff through sediment pretreatment and bioretention to the outlet and Lake Wanahoo.

Landscaping shall emphasize durable native and adapted wetland/moisture-tolerant grasses, sedges, flowering perennials, pollinator species, and limited shrubs where appropriate. Bald cypress shall be the primary tree species. Plantings shall be selected for low maintenance, successful establishment, seasonal interest, habitat value, basin hydrology, and maintenance access.

4.4 Utilities and Site Restoration

The proposer shall review available utility plans and the irrigation layout, coordinate utility locates, verify potential conflicts, and protect existing infrastructure. Known facilities include the bioretention underdrain/outlet system, electrical/site-lighting, water, communications, and an existing irrigation line that passes through or adjacent to the basin, including a quick-connect point used for hose/watering access. The final design shall maintain the function and reasonable access to the irrigation line and quick-connect, or relocate/modify them as necessary with LPNNRD approval. Any irrigation facilities disturbed by the work shall be restored to working condition. Disturbed areas shall be restored. Basic closeout information is addressed in Section 5.

5. BUDGET AND DESIGN-BUILD APPROACH

The maximum total project budget is $100,000 and shall include all design, labor, materials, equipment, drainage restoration, erosion/sediment improvements, educational access and observation features, seating where proposed, signage, landscaping, utility coordination, site restoration, overhead, profit, and incidentals necessary for a complete project. The proposed

lump sum shall identify any included contingency allowance. Changes affecting contract cost require prior written LPNNRD approval; the $100,000 maximum shall not be exceeded without separate Board authorization.

Progress Payments and Retainage. The selected contractor may submit requests for progress payment no more frequently than once per month for satisfactorily completed work. LPNNRD will retain five percent (5%) of each progress payment, subject to applicable Nebraska law. LPNNRD may withhold amounts for incomplete, deficient, or disputed work as authorized by law. Final payment and release of retainage shall follow satisfactory completion, acceptance, and applicable closeout requirements, within the timeframes required by Nebraska law.

Warranty and Plant Establishment. Proposers shall identify applicable product warranties and provide a one-year warranty against defective workmanship. Proposers shall also state any proposed plant survival or replacement warranty. Full vegetation establishment is not a condition of ordinary final acceptance or statutory release of retainage; ongoing warranty or replacement obligations remain in effect as provided in the contract.

Final Completion and Project Closeout. Prior to final payment, the contractor shall complete the work, address outstanding deficiencies identified by LPNNRD, and provide basic closeout information. This is intended to be a simple process, with approximately one or two pages of documentation envisioned, supplemented by applicable product information or warranties. As applicable, closeout information should include a brief summary or marked-up drawing identifying significant drainage-system or other underground changes; basic recommendations for routine maintenance of the basin, sediment pretreatment areas, landscaping, and educational features; and applicable product information and warranties. The contractor shall remove construction debris, restore disturbed areas, and submit a final invoice. Final payment and release of retainage are subject to applicable Nebraska law.

Long service life and low maintenance are important selection considerations. Proposers shall identify major structural and access-feature materials and anticipated maintenance. If a desired feature should be simplified to remain within the budget, the proposal should explain the recommended modification and benefit.

6. PROPOSAL REQUIREMENTS

Proposals should be concise and include:

- Firm/team information, key personnel or subcontractors, relevant experience, and at least three references.
- A brief description of the proposed approach to basin restoration, erosion/sediment management, educational access and observation features, landscaping, signage, utilities, maintenance, and practical verification of restored drainage performance.
- A conceptual plan or sketch showing the proposed layout and major features.
- Major proposed materials, anticipated maintenance/service-life considerations, and applicable workmanship and plant warranties.
- A lump-sum design-build price not exceeding $100,000, with an approximate breakdown among major project components.
- Any value-engineered alternative, including cost, benefits, and tradeoffs.

- A proposed project schedule, including design, construction, planting, and final completion. LPNNRD is open to a construction period proposed by the selected firm. Proposers should consider seasonal site conditions and plant establishment; summer/fall 2027 may be appropriate if spring conditions are excessively wet.
- Grant Compliance. Proposers shall acknowledge that the project is funded in part through a Clean Water Act Section 319 grant and agree to comply with applicable grant requirements, including those identified in Attachment G. The selected contractor shall provide reasonable documentation of compliance upon request by LPNNRD or the funding agency.

7. EVALUATION

LPNNRD intends to select the proposal providing the best overall value and project outcome within the $100,000 budget. Selection will not be based solely on lowest price.

Evaluation Factor	Weight
Project understanding and conceptual approach	30%
Durability, low maintenance, and materials	20%
Relevant experience and qualifications	20%
Basin restoration, erosion/sediment, and landscaping approach	15%
Educational value and aesthetics	10%
Schedule and overall responsiveness	5%

Optional Proposal Presentations and Interviews. Following receipt and initial evaluation of proposals, LPNNRD may invite one or more of the highest-ranked firms to participate in a conceptual design presentation and question-and-answer session with a small evaluation committee. Presentations may be conducted in person at the LPNNRD office in Wahoo, Nebraska, and/or virtually, as determined by LPNNRD. Discussions may address the proposed layout, basin restoration approach, materials, educational features, anticipated maintenance, project costs, and schedule. Elaborate renderings or presentations are not required. LPNNRD reserves the right to make a recommendation without interviews, request clarifications, and negotiate scope details with the preferred proposer.

8. RFP SCHEDULE AND SUBMISSION

Milestone	Date
RFP Issued	November 10, 2026
Pre-Proposal Site Visits	Individual site visits by appointment
Proposals Due / Public Opening	January 28, 2027 at 11:00 a.m. CST
Optional Presentations / Interviews	January 29–February 5, 2027 (if requested)
Selection / Board Approval	February 8, 2027
Construction / Completion	Proposer to recommend

In lieu of a single organized pre-proposal meeting, prospective proposers are encouraged to contact LPNNRD to schedule an individual site visit. Site visits will provide an opportunity to review the basin, parking-lot inflows, erosion, outlet structure, utilities, and other site conditions.

Proposals must be received electronically by 11:00 a.m. Central Standard Time on Thursday, January 28, 2027, at both lpnnrd@lpnnrd.org and rchapman@lpnnrd.org. Proposals received after the deadline may not be considered.

A public proposal opening will be held at 11:00 a.m. on January 28, 2027, at the LPNNRD office in Wahoo, Nebraska. The names of firms submitting proposals will be publicly announced and recorded. Proposals will not be evaluated or selected during the public opening.

Following the public opening, LPNNRD will review proposals in accordance with the evaluation criteria established in this RFP, subject to applicable procurement requirements. Optional interviews or presentations may be conducted prior to a recommendation for Board approval.

Requests to schedule a site visit shall be directed to Ryan Chapman at 402-443-4675 or rchapman@lpnnrd.org.

9. GENERAL CONDITIONS

The selected contractor shall provide all design services, labor, supervision, equipment, materials, subcontractors, permits, utility coordination, temporary erosion/sediment controls, and incidentals necessary for a complete project; protect the public and existing improvements; minimize disruption to LPNNRD operations; and comply with applicable laws, codes, safety requirements, and applicable Clean Water Act Section 319 grant conditions. The project is funded in part through LPNNRD's Wahoo Creek Implementation Project Section 319 grant; applicable requirements include compliance with the approved project scope, maintenance of constructed BMPs, recognition of the Federal Nonpoint Source Management Program/USEPA/DWEE in project outreach materials, and contractor/subcontractor compliance requirements passed through by LPNNRD. The selected contract is subject to DWEE approval before expenditure of grant funds. Applicable federal contract provisions, including those required by 2 CFR 200.327 and Appendix II to 2 CFR Part 200, shall be incorporated into the final agreement as appropriate.

LPNNRD reserves the right to reject any or all proposals, waive minor irregularities, request clarification, conduct interviews, negotiate with the preferred proposer, accept or reject alternatives, modify the scope before contract execution, cancel or reissue the RFP, and make the award determined to be in the District's best interest.

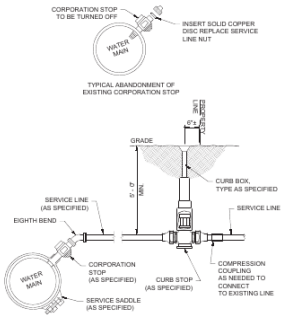
10. REFERENCE MATERIALS

- Attachment A - Original Site Details
- Attachment B - Original Bioretention Details
- Attachment C - Site Utility and Electrical Plans
- Attachment D - Existing Irrigation Layout Sketch
- Attachment E - UNL Student Conceptual Landscape/Boardwalk Plans
- Attachment F - Construction Photographs
- Attachment G - Applicable Clean Water Act Section 319 Grant Requirements

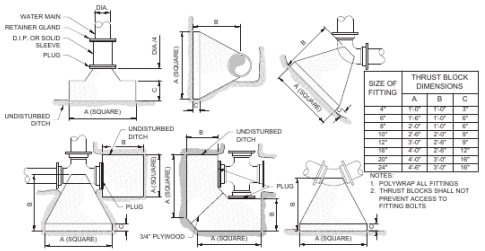
The UNL concept is provided for inspiration only. Proposers are encouraged to refine or simplify it where doing so improves cost effectiveness, durability, maintenance, constructability, accessibility, or overall value.

LOWER PLATTE NORTH NATURAL RESOURCES DISTRICT

ATTACHMENT A - ORIGINAL SITE DETAILS



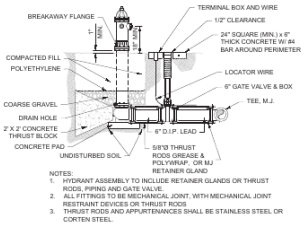
1 **WATER SERVICE INSTALLATION**
SCALE: N.T.S.



SIZE OF FITTING	THRUST BLOCK DIMENSIONS		
	A	B	C
4"	1'-0"	1'-0"	9"
6"	1'-0"	1'-0"	9"
8"	2'-0"	1'-0"	6"
10"	2'-6"	2'-0"	9"
12"	3'-0"	2'-6"	9"
16"	4'-0"	2'-6"	12"
20"	4'-0"	3'-0"	15"
24"	4'-6"	3'-0"	18"

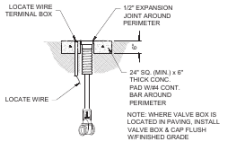
NOTES:
1. POLYWRAP ALL FITTINGS
2. THRUST BLOCKS SHALL NOT PREVENT ACCESS TO FITTING BOLTS

2 **CONCRETE THRUST BLOCK**
SCALE: N.T.S.

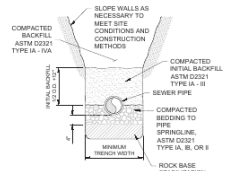


NOTES:
1. HYDRANT ASSEMBLY TO INCLUDE RETAINER GLANDS OR THRUST RODS, PIPING AND GATE VALVE.
2. ALL FITTINGS TO BE MECHANICAL JOINT, WITH MECHANICAL JOINT RESTRAINT DEVICES OR THRUST RODS
3. THRUST RODS AND APPURTENANCES SHALL BE STAINLESS STEEL OR CORTEN STEEL.

3 **FIRE HYDRANT ASSEMBLY**
SCALE: NOT TO SCALE



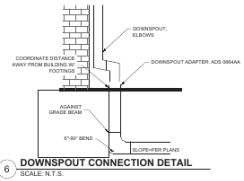
4 **GATE VALVE & BOX**
SCALE: N.T.S.



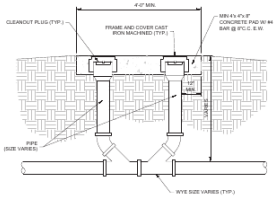
NOTE: PIPE BEDDING ONLY REQUIRED FOR SANITARY SEWER PIPE

PIPE SIZE	MIN TRENCH WIDTH
4"	18"
6"	18"
8"	24"
10"	26"
12"	30"
15"	30"
18"	32"

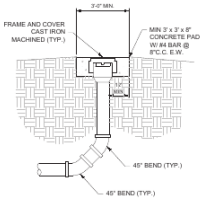
5 **SANITARY SEWER / WATER TRENCH**
SCALE: N.T.S.



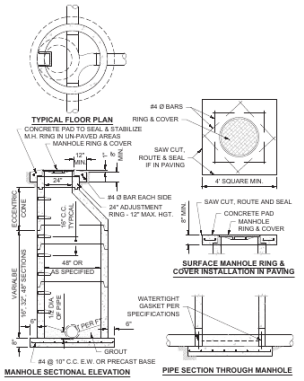
6 **DOWNSPOUT CONNECTION DETAIL**
SCALE: N.T.S.



11 **DOUBLE GRADE CLEANOUT**
SCALE: N.T.S.

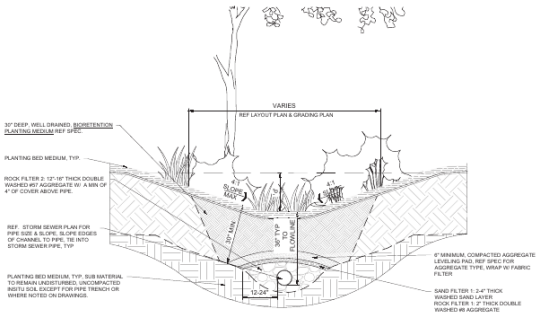


7 **CLEANOUT**
SCALE: N.T.S.

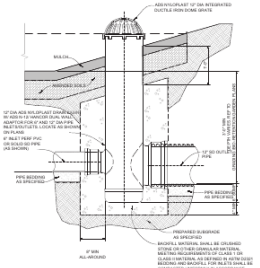


8 **SANITARY SEWER MANHOLE**
SCALE: N.T.S.

BIORETENTION GENERAL NOTES:
1. PROTECT LOCATION OF BIORETENTION AREA FROM CONSTRUCTION ACTIVITIES TO REDUCE COMPACTION OF THE EXISTING SOILS. REFERENCE SHEET C200 & C300 SERIES SHTS.
2. DEPTH (d) OF WATER REQUIRED TO DRAIN IN 36 HOURS OR LESS AFTER PLANT INSTALLATION. DEPTH IS NOT TO EXCEED 24". REFERENCE GRADING PLANS ON C000 SERIES SHEETS.
3. REFERENCE SPECIFICATION SECTION 311913 BIORETENTION SOIL PREPARATION FOR SOIL REQUIREMENTS. DO NOT DRIVE MACHINERY OVER BIORETENTION SOIL, TYP.
4. PROTECT BIORETENTION SOIL FROM SEDIMENTATION AND CONSTRUCTION ACTIVITIES AT ALL TIMES.



9 **BIO RETENTION SECTION**
SCALE: N.T.S.



10 **BIO RETENTION AREA INLET**
SCALE: N.T.S.

JE CONSULTING GROUP, INC
ORGANIZATION CERTIFICATE OF AUTHORITY/COA NUMBER: CA1308

JEO ARCHITECTURE, INC
ORGANIZATION CERTIFICATE OF AUTHORITY/COA NUMBER: CA1309

LPNNRD
OFFICE BUILDING AT LAKE WANAHOO
WAHOO, NE

SITE DETAILS

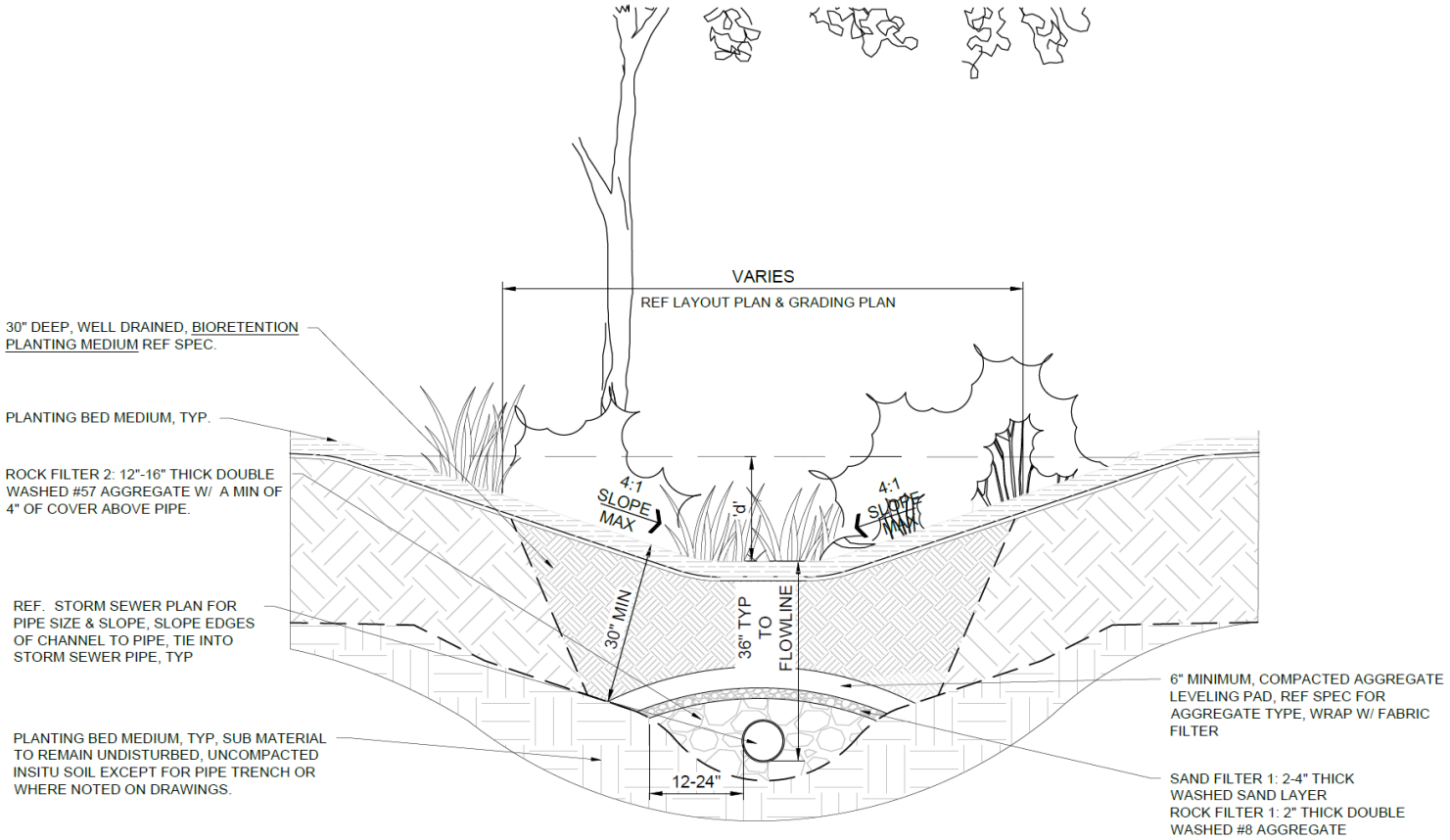
C603

LOWER PLATTE NORTH NATURAL RESOURCES DISTRICT

ATTACHMENT B - ORIGINAL BIORETENTION DETAILS

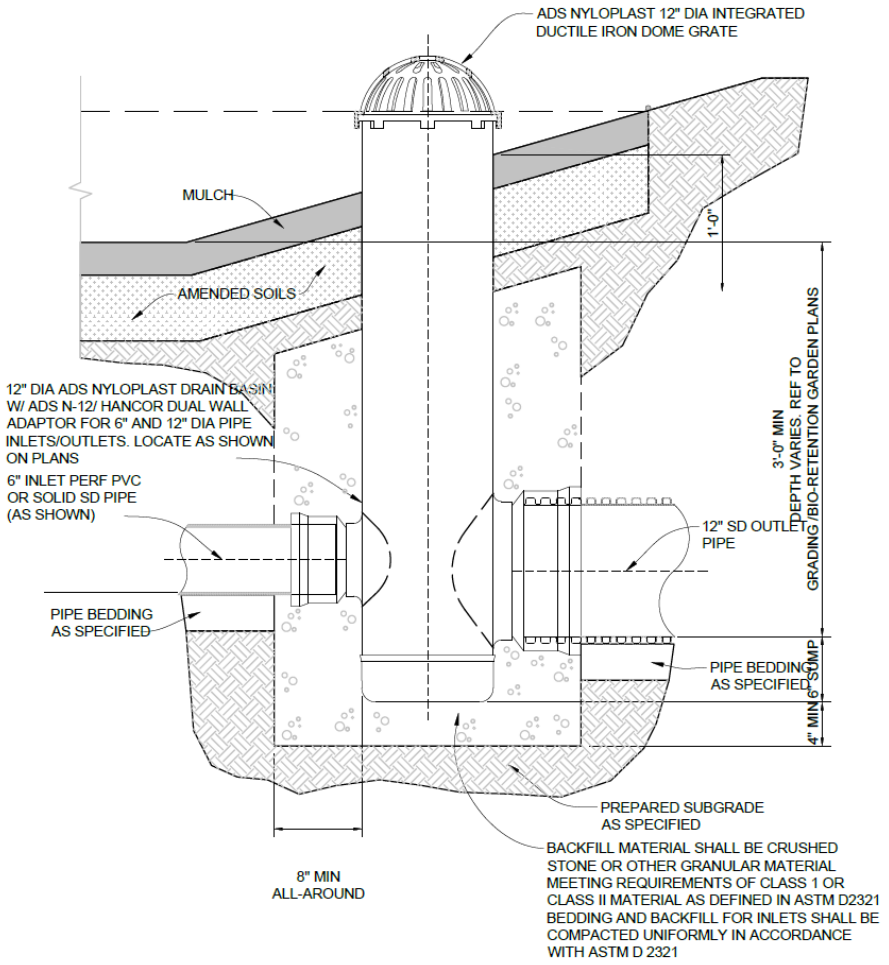
BIORETENTION GENERAL NOTES:

1. PROTECT LOCATION OF BIORETENTION AREA FROM CONSTRUCTION ACTIVITIES TO REDUCE COMPACTION OF THE EXISTING SOILS, REFERENCE SHEET C200 & C300 SERIES SHTS.
2. DEPTH (d) OF WATER REQUIRED TO DRAIN IN 36 HOURS OR LESS AFTER PLANT INSTALLATION, DEPTH IS NOT TO EXCEED 24". REFERENCE GRADING PLANS ON C300 SERIES SHEETS.
3. REFERENCE SPECIFICATION SECTION 311913 BIORETENTION SOIL PREPARATION FOR SOIL REQUIREMENTS. DO NOT DRIVE MACHINERY OVER BIORETENTION SOIL, TYP.
4. PROTECT BIORETENTION SOIL FROM SEDIMENTATION AND CONSTRUCTION ACTIVITIES AT ALL TIMES.



9 **BIO RETENTION SECTION**

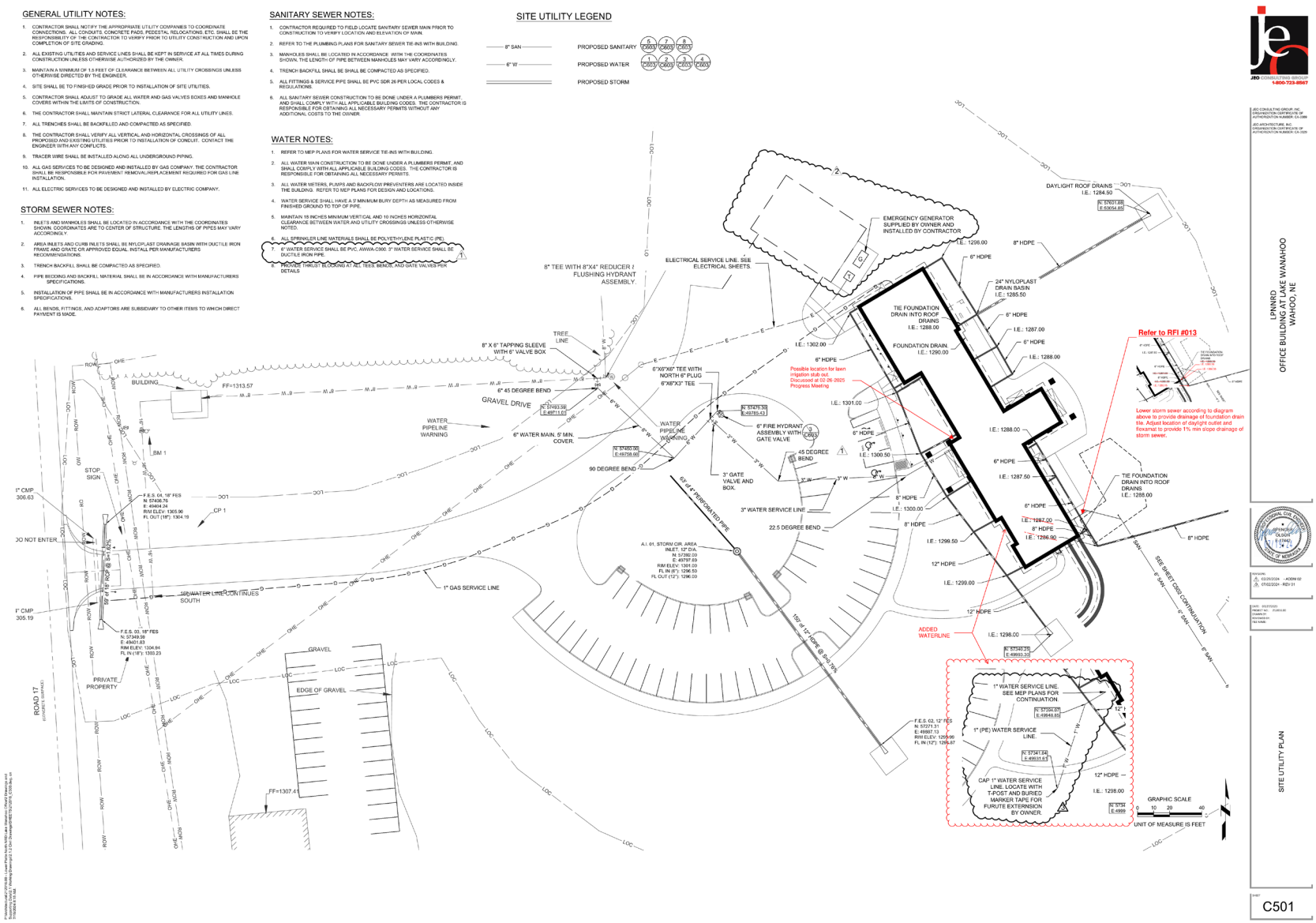
SCALE: N.T.S.



10 **BIO RETENTION AREA INLET**
SCALE: N.T.S.

LOWER PLATTE NORTH NATURAL RESOURCES DISTRICT

ATTACHMENT C - SITE UTILITY PLAN



Stormwater Bioretention Basin Demonstration & Education Project - RFP

SITE LIGHTING POLE SCHEDULE

MARK	LUMINAIRE QUAN. PER POLE	POLE HT. (FT.)	POLE TYPE	REMARKS
Z1	1	25' - 0"	RTS	
Z2	1	12' - 0"	RTS	

GENERAL NOTES
a. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
b. CONTRACTOR TO VERIFY INSTALLATION REQUIREMENTS PRIOR TO ORDERING.
c. POLE FINISH SHALL MATCH LUMINAIRE FINISH.
d. PROVIDE EACH POLE WITH POWDER COAT FINISH APPLIED OVER EPOXY PRIMER. SEE SPECIFICATIONS.
e. POLE TYPE DESCRIPTION (ABC):
A - SHAPE, R-ROUND, S-SQUARE
B - PROFILE, S-STRAIGHT, T-TAPERED
C - MATERIAL, A-ALUMINUM, S-STEEL
f. PROVIDE INTERNAL VIBRATION DAMPENER FOR EACH POLE.
g. REFER TO PLANS FOR LUMINAIRE ORIENTATION.

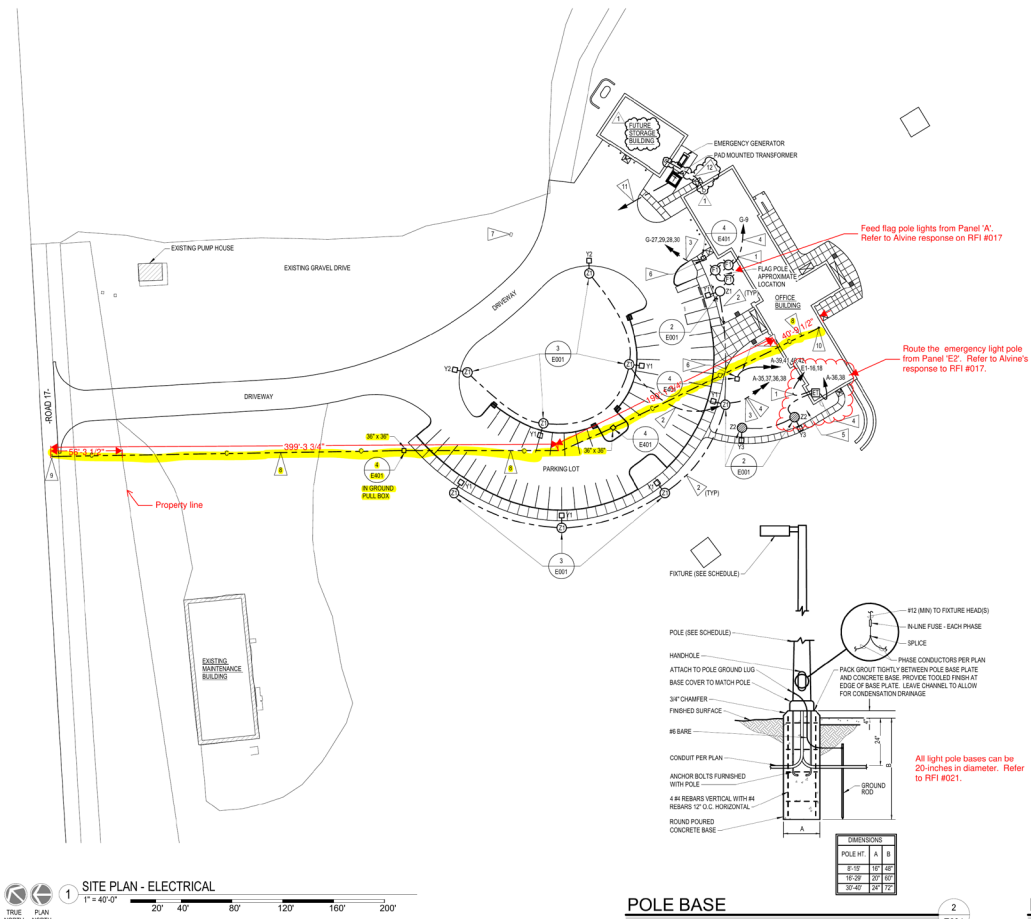
SITE LUMINAIRE SCHEDULE

MARK	DESCRIPTION	MANUFACTURER	CATALOG NO.	LUMENS	WATTAGE	COLOR TEMP (K)	DIMMING PROTOCOL	BEAM DISTRIBUTION	VOLTAGE	FINISH	ALTERNATE MANUFACTURERS	REMARKS
F1	FLAG POLE FLOOD LIGHT, WITH BARN DOORS	INVUE	VFS-K-B40-3-LED-E1-NSR-BZ-SF-BZ-VFS-BD	3943	46	4000	-	3X3	120 V	BRONZE (VERIFY)	ACUITY	1,2
Y1	LED PARKING LOT LUMINAIRE	MCGRAW-EDISON	GLEON-SA2B-740-2-T3-BZ	11474	85	4000	-	TYPE III	208 V	BRONZE (VERIFY)	ACUITY	1
Y2	LED ROADWAY LUMINAIRE	MCGRAW-EDISON	GLEON-SA2B-740-2-T4W-BZ	11474	85	4000	-	TYPE IV WIDE	208 V	BRONZE (VERIFY)	ACUITY	1
Y3	LED PEDESTRIAN LUMINAIRE	MCGRAW-EDISON	GPC-SA1B-740-2-T2-QM-BZ	5989	44	4000	-	T II	208 V	BRONZE (VERIFY)	ACUITY	1

GENERAL NOTES
a. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
b. CONTRACTOR TO VERIFY LIGHT FIXTURE CATALOG NUMBER AND INSTALLATION REQUIREMENTS PRIOR TO ORDERING.
c. LISTED ALTERNATE MANUFACTURERS ARE PERMITTED TO BID AN EQUIVALENT LUMINAIRE WHICH COMPLIES WITH THE PRODUCT REQUIREMENTS IDENTIFIED IN THIS SCHEDULE AND THE SPECIFICATIONS WITHOUT SUBMITTING A PRIOR APPROVAL REQUEST. ALTERNATE LUMINAIRES WILL BE REVIEWED DURING THE SUBMITTAL PROCESS AND THE MANUFACTURER WILL BE RESPONSIBLE TO PROVIDE A LUMINAIRE WHICH MEETS THE PRODUCT REQUIREMENTS.
d. ELECTRICAL CONTRACTOR SHALL PROVIDE THE SPECIFIED LUMINAIRES DEFINED WITHIN THIS SCHEDULE AND ASSOCIATED CONTRACT DOCUMENTS. IF REQUIRED, THE ELECTRICAL CONTRACTOR MAY UTILIZE MULTIPLE DISTRIBUTORS AND/OR DISTRIBUTORS MAY UTILIZE MULTIPLE LIGHTING MANUFACTURER REPRESENTATIVES TO COMPLY WITH THE CONTRACT DOCUMENTS FOR THIS PROJECT.

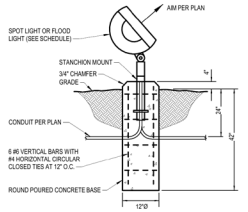
REMARKS
1. VERIFY FINISH WITH ARCHITECT.
2. SEE DETAIL 4 ON THIS SHEET.

JEO ARCHITECTURE INC
800.723.8567



SITE PLAN - ELECTRICAL
1" = 40'-0"
TRUE NORTH
PLAN NORTH
20' 40' 80' 120' 160' 200'

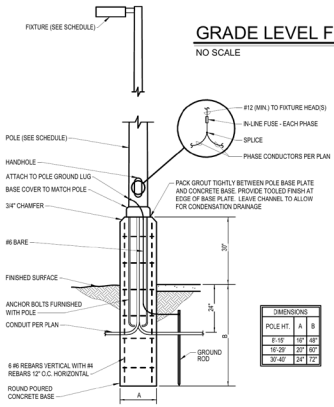
FLAG NOTES
1. PROVIDE #10 CONDUCTORS AND GROUND IN 3/4" C. ENTIRE LENGTH OF CIRCUIT.
2. PROVIDE #8 CONDUCTORS AND GROUND IN 1" C. ENTIRE LENGTH OF CIRCUIT.
3. PROVIDE #8 CONDUCTORS AND GROUND IN 1 1/4" C.
4. ROUTE THROUGH LIGHTING CONTROL PANEL 'LCP'.
5. EMERGENCY LIGHTING TRANSFER SWITCH. LOCATE NEAR LIGHTING CONTROL PANEL 'LCP'.
6. PROVIDE 4IN IN GROUND PULL BOX 18" x 18" FOR FUTURE ELECTRIC VEHICLE CLASS 2 CHARGING STATION.
7. EXISTING PAD MOUNTED TRANSFORMER SERVING CAMPGROUND. THE OWNER WILL WORK DIRECTLY WITH THE POWER COMPANY TO HAVE THE EXISTING OVERHEAD PRIMARY LINE REMOVED AND A NEW UNDERGROUND PRIMARY LINE PROVIDED.
8. PROVIDE TWO 4" PVC-40 UNDERGROUND CONDUITS WITH PULL CORDS FOR UTILITY COMMUNICATION LINES.
9. STUB-OUT AND CAP CONDUITS AT EDGE OF PROPERTY LINE.
10. STUB-UP 6" ABOVE THE FLOOR AND CAP IN I.T. ROOM 016 ALONG THE EAST WALL.
11. UNDERGROUND PRIMARY ELECTRICAL BY POWER COMPANY.
12. PROVIDE 1 1/2" PVC-40 UNDERGROUND FROM MAIN DISTRIBUTION PANEL 'MDP' TO FUTURE STORAGE BUILDING. CAP END OF CONDUIT, PROVIDE PULL CORD AND STAKE LOCATION OF END OF CONDUIT RUN.



GRADE LEVEL FLOOD/SPOT LIGHT
NO SCALE
4 E001

All light pole bases can be 20-inches in diameter. Refer to RFI #021.

POLE BASE
NO SCALE
09/09/2019
2 E001



POLE BASE ABOVE GROUND
NO SCALE
09/09/2019
3 E001

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NOTE:
DO NOT SCALE DRAWINGS. VERIFY ALL DIMENSIONS and clearances from ARCHITECTURAL, STRUCTURAL, shop and other appropriate drawing or at site. Lay-out and coordinate all work prior to installation to provide clearances required for operation, maintenance, and codes and verify non-interference with other work. DO NOT FABRICATE PRIOR TO VERIFICATION OF CLEARANCE FOR ALL TRADES. READ SPECIFICATIONS.

ALVINE Engineering
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Oklahoma City: 1500 N Villa, Suite 102, Oklahoma City, OK 73118, Phone: (405) 556-5480
Des Moines: 400 East Court Avenue, Suite 130, Des Moines, IA 50309, Phone: (515) 243-0545

LOWER PLATTE NORTH - NATURAL RESOURCES DISTRICT
OFFICE BUILDING AT LAKE WANAHOO
WAHOO, NE

SAMUEL L. HABERMAN
CA-2169 06/26/2024

REVISIONS
1 PR #001 06.26.2024

DATE: 02.09.2024
PROJECT NO: 212516.00
DRAWN BY: VG
REVIEWED BY: RCP
DRAWINGS INTENDED FOR

SITE PLAN - ELECTRICAL

SHEET
E001

Autodesk Docs://Lower Platte North HRD/20229664_LMEPT_-02.rvt
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LOWER PLATTE NORTH NATURAL RESOURCES DISTRICT

ATTACHMENT D - EXISTING IRRIGATION LAYOUT SKETCH



Reference sketch showing known irrigation routing and quick-connect location. Field verify prior to construction.

Stormwater Bioretention Basin Demonstration & Education Project - RFP

LPNNRD West Landscape Plan

Colton Pugh, Cory Schumacher, Trey Lamkins, and Will Whited

Our concept integrates the office front and a central bioswale to promote sustainability, biodiversity, and stormwater management. Water-loving plants thrive in the bioswale, while drought-tolerant species enhance areas near the building, supporting wildlife and blending with nature.



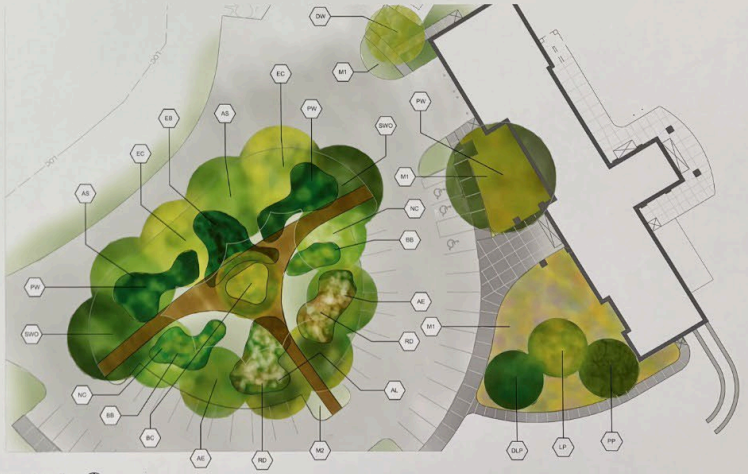
Boardwalk Inspiration



Boardwalk Inspiration



Bioswale Plan
1-10



West Landscape Plan
1-20

Key	Plant Material Proposed - Confierous Trees Common Name	Botanical Name
DLP	Domingo Limber Pine	Pinus flexilis
LP	Lacebark Pine	Pinus bungeana
PP	Ponderosa Pine	Pinus ponderosa

Key	Plant Material Proposed - Decidioous Overstory Trees Common Name	Botanical Name
AE	American Elm	Ulmus americana
AL	American Linden	Tilia americana
AS	American Sycamore	Platanus occidentalis
BC	Baldcypress	Taxodium distichum
BO	Bur Oak	Quercus macrocarpa
EC	Eastern Cottonwood	Populus deltoides
NC	Northern Catalpa	Catalpa speciosa
SWO	Swamp White Oak	Quercus bicolor

Key	Plant Material Proposed - Understory Trees Common Name	Botanical Name
DW	Donald Wyman Crapapple	Malus 'Donald Wyman'
PW	PawPaw	Asimina triloba

Key	Plant Material Proposed - Shrubs Common Name	Botanical Name
BB	Buttonbush	Cephalanthus occidentalis
EB	Elderberry	Sambucus canadensis
RD	Redosier Dogwood	Cornus sericea

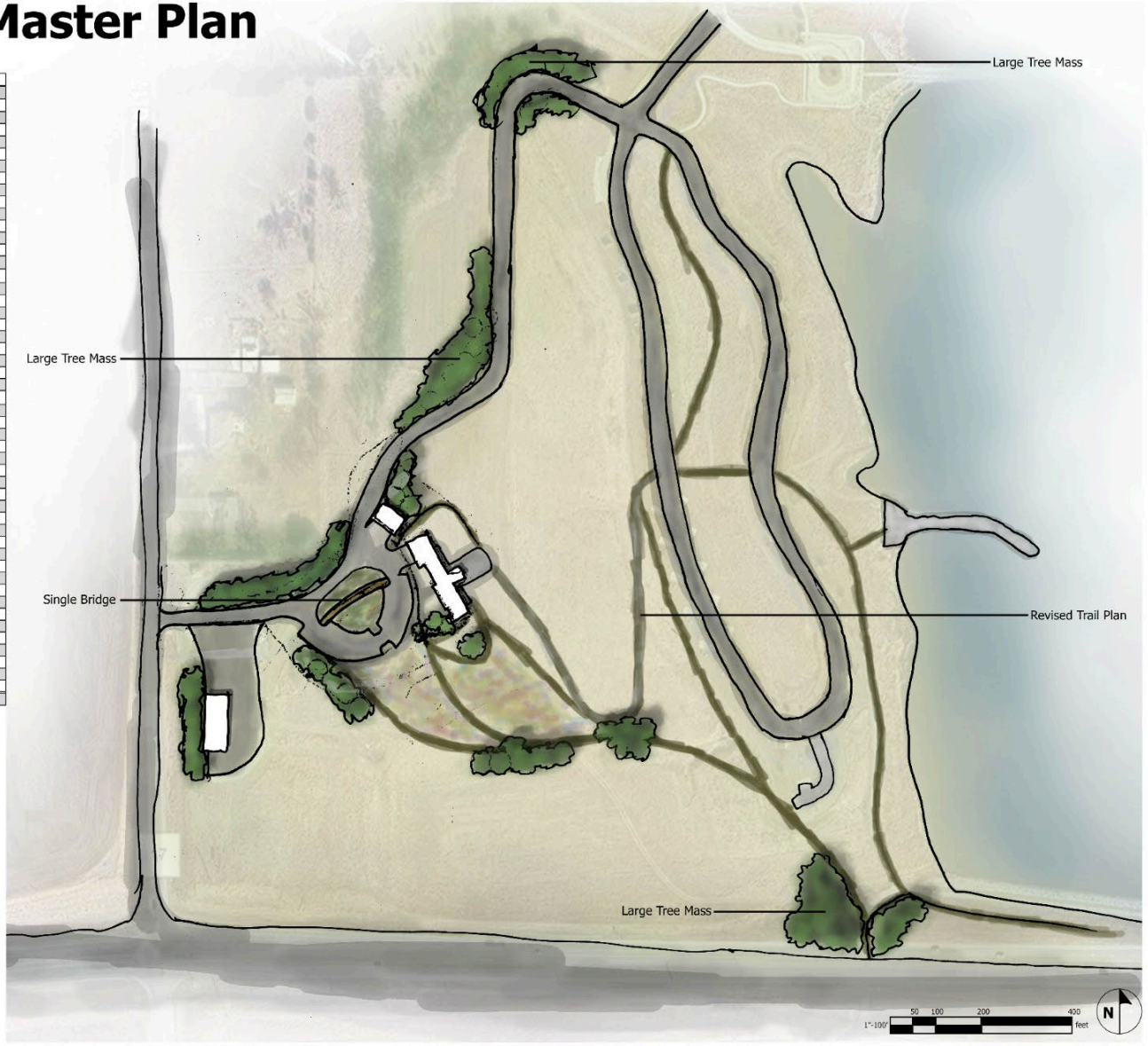
Key	Plant Material Proposed - Herbaceous Grasses and Sedges Common Name	Botanical Name
M1	Blue Grama	Bouteloua gracilis
M1	Buffalograss	Bouteloua dactyloides
M2	Fox sedge	Carex vulpinoidea
M2	Frank Sedge	Carex frankii
M2	Hop sedge	Carex lupulina
M1	Little Bluestem	Schizachyrium scoparium
M1	Sideoats Grama	Bouteloua curtipendula

Key	Plant Material Proposed - Herbaceous Perennials Common Name	Botanical Name
M1/M2	Amsonia	Amsonia tabernaemontana
M2	Anemome	Anemone canadensis
M1/M2	Black Eyed Susan	Rudbeckia hirta
M1/M2	False Blue Indigo	Baptisia australis
M2	False Sunflower	Heliopsis helianthoides
M2	Iris	Iris spp.
M2	Joepye weed	Eutrochium purpureum
M1/M2	Leadplant	Amorpha canescens
M1/M2	New England Aster	Symphyotrichum novae-angliae
M1/M2	Purple Coneflower	Echinacea purpurea
M2	Swamp Milkweed	Asclepias incarnata


LPN NRD Master Plan
Legend
Tree Estimate
Tree
Size
Price Unit
Total Price
Deciduous Tree
1 1/2" cal.
≈$200
≈$100,000
Understory Tree
1 1/4" cal.
≈$100
≈$50,000
Coniferous Tree
4'-5'
≈$125
≈$62,500
≈$212,000
SITE PLAN

LPNNRD Revised Master Plan

Common Name	Scientific Name	Quantity	Price Per. 1	Remarks
Trees & Shrubs				
Domingo Limber Pine	*Pinus flexilis*	5	$ 150	
Ponderosa Pine	*Pinus ponderosa*	5	$ 150	
Lacebark Pine	*Pinus bungeana*	5	$ 150	
American Elm	*Ulmus americana*	10	$ 150	
American Linden	*Tilia americana*	15	$ 150	
Bur Oak	*Quercus macrocarpa*	15	$ 150	
Eastern Cottonwood	*Populus deltoides*	15	$ 150	
Northern Catalpa	*Catalpa speciosa*	10	$ 150	
Swamp White Oak	*Quercus bicolor*	10	$ 150	
Donald Wyman Crapapple	*Malus 'Donald Wyman'*	2	$ 150	
Buttonbush	*Cephalanthus occidentalis*	5	$ 70	
Elderberry	*Sambucus canadensis*	3	$ 70	
Redosier Dogwood	*Cornus sericea*	9	$ 70	
Wildflower Mixes				
Native Legume Foodplot Mix	(Mix by: Stock Seed Farm)	2 Lb	$ 27	1 Lb / 2,000 sq ft
Purple Prairieclover	*Petalea purpurea*			
White Prairieclover	*Dalea candida*			
Showy Partridge Pea	*Chamaecrista fasciculata*			
Showy Tick Trefoil	*Desmodium canadense*			
Illinois Bundleflower	*Desmanthus illinoensis*			
Roundhead Lespedeza	*Lespedeza capitata*			
Leadplant	*Amorpha canescens*			
Wild Senna	*Senna hebecarpa*			
Perennial Lupine	*Lupinus perennis*			
Bit O' Prairie Native Mix	(Mix by: Stock Seed Farm)	1 Lb	$ 65	1 Lb / 3,500 sq ft
Blackeyed Susan	*Rudbeckia hirta*			
Blanketflower	*Gaillardia aristata*			
Blue Flax	*Linum perenne*			
Butterfly Milkweed	*Asclepias tuberosa*			
Canada Milkvetch	*Astragalus canadensis*			
Grayhead Coneflower	*Ratibida pinnata*			
Hoary Vervain	*Verbena stricta*			
Illinois Bundleflower	*Desmanthus illinoensis*			
Lance Leaf Coreopsis	*Coreopsis lanceolata*			
Leadplant	*Amorpha canescens*			
Mexican Red Hat	*Ratibida columnifera*			
New England Aster	*Symphyotrichum novae-angliae*			
Pale Purple Coneflower	*Echinacea pallida*			
Perennial Lupine	*Lupinus perennis*			
Plains Coreopsis	*Coreopsis tinctoria*			
Purple Coneflower	*Echinacea purpurea*			
Purple Prairieclover	*Dalea purpurea*			
Showy Milkweed	*Asclepias speciosa*			
Showy Partridgepea	*Chamaecrista fasciculata*			
Stiff Goldenrod	*Oligoneuron rigidum*			
Thickspike Gayfeather	*Liatris pycnostachya*			
Upright Coneflower	*Echinacea pallida*			
White Prairieclover	*Dalea candida*			
Wild Bergamot	*Monarda fistulosa*			
Total			$ 15,109	







LOWER PLATTE NORTH NATURAL RESOURCES DISTRICT

ATTACHMENT G - APPLICABLE CLEAN WATER ACT SECTION 319 GRANT REQUIREMENTS

This project is funded in part through a Clean Water Act Section 319 grant administered by the Nebraska Department of Water, Energy, and Environment (DWEE). The selected contractor and its subcontractors shall comply with applicable grant requirements, including the following. A complete copy of the grant agreement will be provided to the selected contractor and is available upon request.

- **DWEE Approval (IV.A.6).** The project contract and applicable sub-agreements are subject to DWEE approval before expenditure of grant funds.
- **Funding Recognition and Outreach Materials (IV.A.9).** Project publicity, reports, interpretive signage, and other outreach materials shall appropriately recognize the Federal Nonpoint Source Management Program, USEPA, and DWEE. LPNNRD will coordinate required acknowledgement and review with the contractor.
- **BMP Operation and Maintenance (IV.A.11).** Improvements shall be designed and constructed so that LPNNRD can maintain Section 319-funded practices or structural BMPs consistent with applicable operation and maintenance requirements.
- **EPA General Terms and Conditions (IV.B.1).** Work performed under the project is subject to applicable EPA general terms and conditions associated with the Section 319 award.
- **Nondiscrimination (IV.C.9).** The contractor and its subcontractors shall comply with applicable nondiscrimination requirements, including the Nebraska Fair Employment Practice Act. Applicable subcontract provisions shall be passed through to subcontractors.
- **Drug-Free Workplace (IV.C.10).** The contractor shall comply with applicable drug-free workplace requirements.
- **New Employee Work Eligibility / E-Verify (IV.C.14).** The contractor and its subcontractors shall use E-Verify, or an equivalent federal immigration verification system authorized by the federal government, to determine the work eligibility status of new employees physically performing services within the State of Nebraska. If the contractor is an individual or sole proprietorship, the additional lawful-presence documentation requirements contained in the grant agreement shall apply.

Controlling Requirements. This attachment summarizes grant requirements applicable to this procurement and is not intended to modify the underlying grant agreement. In the event of a conflict, the applicable grant agreement requirements shall control.